

Alde-Ore Estuary Complex NVC 2013

Appendix D: Quadrat data set for all quadrats for the Alde-Ore
Estuary SSSI

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Appendix D:
Quadrat data set for
all quadrats for the
Alde-Ore Estuary SSSI

Alde-Ore Estuary complex

Location - unit number	Grid reference	Region	Author
Unit 32	TM3739944091	East Suffolk	Toby Abrehart
Shingle Street. Northern end of unit 32. Within the <i>Atriplex portulacoides</i> at the edge of the encroaching shingle along this section of the estuary. Near to this quadrat are small areas of <i>Puccinellia maritima</i>, <i>Spartina anglica</i>, <i>Limonium vulgare</i>, and small areas of bare soil.		Date	Quadrat Number
		20/01/2014	269
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		10cm	
		Layers Cover	
		90	
		Geology:	
		mud over shingle	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	85
Bare mud	13
<i>Salicornia europaea</i>	1
<i>Suaeda maritima</i>	1

Location - unit number Unit32	Grid reference TM3738444063	Region East Suffolk	Author Toby Abrehart
The last remains of the saltmarsh in this section of the unit. This section of saltmarsh is left over from a shingle bare created in the 1940's. Typical community. 68% correlation 		Date 31/12/2013	Quadrat Number 270
		Altitude 0	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 8cm	
		Layers Cover 100	
		Geology: muds	

Species list

Plant Name	Plant Density
Armeria maritima	15
Atriplex portulacoides	5
Limonium vulgare	2
Plantago maritima	65
Puccinellia maritima	10
Spergularia media	1
Suaeda maritima	2

Location - unit number	Grid reference	Region	Author
Unit32	TM3737944042	East Suffolk	Toby Abrehart
Along the narrow path at the northern end of unit 32. This quadrat was chosen to cover the area that holds <i>Carex extensa</i> at its only known Suffolk site prior to this survey. 55% correlation This habitat starts to become more dominated with <i>Carex arenaria</i> to the higher ground. Additional species nearby include; <i>Seriphidium maritimum</i>, <i>Lotus tenuis</i>, 		Date	Quadrat Number
		31/12/2013	271
		Altitude	Soil Depth
		0	
		Stand Area	Sample Area
			4
Layers mean height			
35cm			
Layers Cover			
100			
Geology:			
muds over shingle			

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	5
<i>Carex extensa</i>	5
<i>Cochlearia anglica</i>	2
<i>Festuca rubra</i>	55
<i>Glaux maritima</i>	10
<i>Juncus gerardii</i>	10
<i>Phragmites australis</i>	10
<i>Plantago maritima</i>	15

Location - unit number	Grid reference	Region	Author
Unit32	TM3737644025	East Suffolk	Toby Abrehart
The higher slope up from the saltmarsh edge. Here it is much drier with very little soil within the shingle. This is typical of a large area through this unit. Large amounts of <i>Arrhenatherum elatius</i>, <i>Carex arenaria</i> and limited <i>Phragmites australis</i>, <i>Vicia lutea</i> is common through this section of the unit and in the unit as a whole. Other species nearby include; <i>Tragopogon prat</i>, <i>Silene uniflora</i>, <i>Cochlearia</i> small one. 		Date	Quadrat Number
		17/01/2014	272
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		20cm, 10mm	
		Layers Cover	
		75%40%	
		Geology:	
		old shingle ridge	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	10
<i>Bromus hordeaceus</i>	4
<i>Carex arenaria</i>	15
<i>Cerastium fontanum</i>	4
<i>Elytrigia atherica</i>	5
<i>Festuca rubra</i>	20
<i>Holcus lanatus</i>	2
<i>Honckenya peploides</i>	10

<i>Hypnum cupressiform</i>	45
<i>Hypochaeris radicata</i>	2
<i>Phragmites australis</i>	5
<i>Plantago lanceolata</i>	5
<i>Poa trivialis</i>	2
<i>Rumex acetosella</i>	3
<i>Sedum acre</i>	2
<i>Silene uniflora</i>	2

Location - unit number Unit32	Grid reference TM3733043977	Region East Suffolk	Author Toby Abrehart
Low area of grassland cut off from the saltmarsh. Festuca rubra dominated with very little variation. Nearby, Cirsium vulgare, Galium aparine, Lactuca serriola, Lupinus polyphyllus 		Date 31/12/2013	Quadrat Number 273
		Altitude 0	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm	
		Layers Cover 100	
		Geology: old saltmarsh muds	

Species list

Plant Name	Plant Density
Festuca rubra	95
Glaux maritima	1
Lotus tenuis	1
Phragmites australis	4

Location - unit number Unit32	Grid reference TM3733443876	Region East Suffolk	Author Toby Abrehart
Area of sparsley vegetated shingle along the ridge line. No mosses in this quadrat. 		Date 31/12/2013	Quadrat Number 274
		Altitude 2	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm	
		Layers Cover 15%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Cerastium fontanum	5
Festuca rubra	2
Geranium robertianum	2
Holcus lanatus	2
Hypochaeris radicata	1
Lathyrus japonicus	1
Rumex acetosella	6
Rumex crispus subsp 1	2

Sedum acre	2
Senecio jacobaea	1
Silene uniflora	2
Sonchus asper	1
Vulpia bromoides	2

Location - unit number Unit32	Grid reference TM3735243888	Region East Suffolk	Author Toby Abrehart
Shingle nearest to the sea. Limited species. This sample is typical of a large section of this ridge.		Date 08/01/2014	Quadrat Number 275
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm	
		Layers Cover 20%	
		Geology: shaingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	1
Atriplex glabriuscula	1
Geranium robertianum	4
Lathyrus japonicus	8
Rumex crispus subsp 1	2

Location - unit number Unit32	Grid reference TM3731643834	Region East Suffolk	Author Toby Abrehart
More stable vegetated shingle. The large majority of the unit is dominated with this community. Nearby; <i>Crepis vesicaria</i>, <i>Beta vulgaris</i> subsp <i>maritima</i> 		Date 31/12/2013	Quadrat Number 276
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm	
		Layers Cover 95%	
		Geology: shingle	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	2
<i>Cerastium fontanum</i>	5
<i>Cladonia furcata</i>	10
<i>Dicranum scoparium</i>	5
<i>Eurhynchium praelon</i>	65
<i>Hypochaeris radicata</i>	3
<i>Plantago lanceolata</i>	3
<i>Poa trivialis</i>	3

<i>Rumex acetosella</i>	15
<i>Sedum anglicum</i>	10
<i>Silene uniflora</i>	5
<i>Vulpia bromoides</i>	2

Location - unit number Unit32	Grid reference TM3725643738	Region East Suffolk	Author Toby Abrehart
Slope away from northern lagoon. Has some Rock Samphire 35% correlation. Fairly typical transition zone along this section Nearby Geranium pusillum, Smyrniolus atrum and Sonchus oleraceus		Date 31/12/2013	Quadrat Number 277
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm, 10mm	
		Layers Cover 70%60%	
		Geology: vegetated shingle	
			

Species list

Plant Name	Plant Density
Aira praecox	3
Armeria maritima	5
Arrhenatherum elatius	3
Brachythecium albican	45
Bromus hordeaceus	3
Catapodium maritimum	2
Cerastium fontanum	2
Cladonia furcata	10

Cochlearia officinalis	2
Crithmum maritimum	4
Erophila verna	2
Festuca rubra	40
Medicago minima	25
Plantago coronopus	15
Sedum acre	10
Silene uniflora	5

A photograph of a grassy field with a blue rope tied to a post in the foreground, forming a rectangular boundary. A small stream flows in the background under a cloudy sky.

Rumex acetosella	20
Sedum acre	5
Silene uniflora	5
Vulpia bromoides	4

Location - unit number Unit32	Grid reference TM3717043561	Region East Suffolk	Author Toby Abrehart
Path. The well trodden paths hold many rare and scarce species		Date 02/07/2013	Quadrat Number 279
		Altitude 1.5m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10mm	
		Layers Cover 95	
		Geology: compacted shingle	



Species list

Plant Name	Plant Density
Aira caryophyllea	3
Arenaria serpyllifolia s	2
Bromus hordeaceus su	4
Catapodium marinum	3
Cerastium diffusum	1
Cerastium semidecand	3
Erophila verna	2
Lolium perenne	45

Medicago minima	4
Plantago coronopus	30
Plantago lanceolata	2
Poa annua	10
Poa bulbosa	2
Trifolium glomeratum	5
Trifolium micranthum	2
Trifolium scabrum	10

A photograph of a grassy field, likely a prairie or steppe, with a blue wavy line and a wooden stick in the foreground. The field is covered in tall, green grasses with white seed heads. The blue line is a wavy, horizontal line that runs across the middle of the image. A wooden stick is visible on the left side, with a red string tied around it. The background shows a flat horizon under a cloudy sky.

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	70
<i>Dactylis glomerata</i>	5
<i>Elytrigia repens</i>	20
<i>Galium aparine</i>	10
<i>Heracleum sphondyli</i>	2
<i>Phragmites australis</i>	3
<i>Urtica dioica</i>	2

Location - unit number Unit32	Grid reference TM3717343571	Region East Suffolk	Author Toby Abrehart
Grassland to east of sea wall. Stable grassland to west of a path. Dominated with Festuca rubra		Date 31/12/2013	Quadrat Number 281
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm,10mm	
		Layers Cover 55%45%30%	
		Geology: sandy covered shingle	



Species list

Plant Name	Plant Density
Beta vulgaris subsp. M	2
Bromus hordeaceus su	5
Campylopus introflex	35
Cerastium fontanum	2
Cirsium vulgare	1
Crepis capillaris	15
Elytrigia atherica	2
Festuca rubra	65

Lactuca serriola	1
Lolium perenne	4
Plantago lanceolata	3
Poa trivialis	5
Rumex acetosella	2
Trifolium campestre	2
Vicia hirsuta	2
Vicia sativa	2

Location - unit number Unit32	Grid reference TM3719243544	Region East Suffolk	Author Toby Abrehart
Area of occasionally flooded land, large amount of shingle and Dicranium scoparium covering the majority of the ground Atriplex portulacoides and Festuca rubra dominant 		Date 31/12/2013	Quadrat Number 282
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,8cm,10mm	
		Layers Cover 10%45%45%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Atriplex portulacoides	30
Beta vulgaris subsp. M	3
Catapodium marinum	4
Dicranium scoparium	50
Elytrigia atherica	3
Festuca rubra	10
Parapholis incurva	2
Plantago coronopus	3

Sagina apetala	1
Sedum acre	5
Silene uniflora	3

Location - unit number	Grid reference	Region	Author
Unit32	TM3721443516	East Suffolk	Toby Abrehart
Area of occasionally flooded shingle. Behind sea wall. Dominated with Elytrigia atherica, and Atriplex portulacoides		Date	Quadrat Number
		31/12/2013	283
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		30cm,10cm,10mm	
		Layers Cover	
		50%45%30%	
		Geology:	
		vegetated shingle	

Species list

Plant Name	Plant Density
Atriplex portulacoides	60
Elytrigia atherica	30
Festuca rubra	10
Festuca rubra subsp lit	4

Location - unit number Unit32	Grid reference TM3724243513	Region East Suffolk	Author Toby Abrehart
Shingle ridge above high tide line Sparse flora, Lathyrus japonica and Silene uniflora. Nearby the odd Crambe maritima and Beta vulgaris subsp. maritima.		Date 17/01/2014	Quadrat Number 284
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 3cm	
		Layers Cover 10%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
Lathyrus japonicus	8
Silene uniflora	2

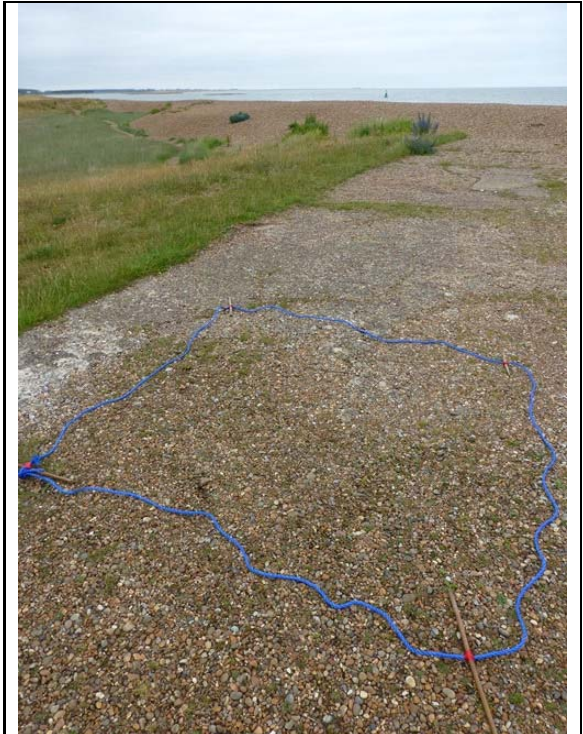
Location - unit number	Grid reference	Region	Author
Unit32	TM3721443473	East Suffolk	Toby Abrehart
Slightly more stable shingle with more abundant vegetation.		Date	Quadrat Number
		04/07/2013	285
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
30cm,10cm			
Layers Cover			
30%30%			
Geology:			
shingle			



Species list

Plant Name	Plant Density
Beta vulgaris subsp. M	5
Bostrychia scorpioides	10
Bromus hordeaceus su	4
Cerastium fontanum	2
Elytrigia atherica	5
Festuca rubra	3
Plantago lanceolata	3
Rumex crispus subsp l	5

Silene uniflora	10
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Location - unit number Unit32	Grid reference TM3720343461	Region East Suffolk	Author Toby Abrehart
The concreted trackway to the sea 		Date 04/07/2013	Quadrat Number 286
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10mm	
		Layers Cover 50%	
		Geology: concrete track	

Species list

Sagina apetala	3
Sedum anglicum	3
Trifolium striatum	1

Location - unit number Unit32	Grid reference TM3716343437	Region East Suffolk	Author Toby Abrehart
Chalky ridge running to the west of the concrete track. A very different flora in this section. To the south is Wild privet, Ivy and a Rose sp and 50 plus Bee orchids 		Date 31/12/2013	Quadrat Number 287
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm,10mm	
		Layers Cover 50%50%40%	
		Geology: chalk	

Species list

Plant Name	Plant Density
Achillea millefolium	3
Arrhenatherum elatius	5
Bellis perennis	2
Brachythecium albican	30
Elytrigia repens	1
Festuca rubra	5
Knautia arvensis	5
Leucanthemum vulgare	6

Lotus corniculatus	2
Ophrys apifera	1
Plantago media	30
Poa trivialis	3
Tragopogon pratensis	1
Trifolium dubium	4
Trifolium pratense	1
Trifolium repens	1

Location - unit number Unit32	Grid reference TM3713543406	Region East Suffolk	Author Toby Abrehart
Lichen grassland. Heavily trampled lichen through the southern section of this unit. 		Date 04/07/2013	Quadrat Number 288
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,10mm	
		Layers Cover 30%75%	
		Geology: vegetated shingle	

Species list

Plant Name	Plant Density
Aira praecox	2
Bromus hordeaceus	20
Cerastium fontanum	4
Cladonia furcata	10
Cladonia rangiformis	50
Dicranum scoparium	30
Festuca rubra	10
Hypochaeris radicata	2

Plantago lanceolata	4
Poa compressa	1
Poa trivialis	1
Pseudosclerodopium	10
Rumex acetosella	3
Sedum acre	2
Silene uniflora	4
Trifolium ornithopodi	2

Location - unit number	Grid reference	Region	Author
Unit32	TM3710843407	East Suffolk	Toby Abrehart
Western saline lagoon. Dry at present rich flora of very uncommon species. New plant of <i>Carex extensa</i> at TM3708343356 nearby is a band of <i>Phragmites australis</i> with large patches of <i>Juncus gerardii</i>. Abundant <i>Parapholis incurva</i> and occasional <i>Puccinellia rupestris</i> 		Date	Quadrat Number
		31/12/2013	289
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		2cm	
		Layers Cover	
		30%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex glabriuscula</i>	3
<i>Atriplex portulacoides</i>	2
<i>Bostrychia scorpioides</i>	45
<i>Festuca rubra</i> subsp lit	1
<i>Parapholis incurva</i>	5
<i>Plantago maritima</i>	5
<i>Puccinellia rupestris</i>	10

<i>Salicornia europaea</i>	2
<i>Spergularia marina</i>	3

Location - unit number	Grid reference	Region	Author
Unit32	TM3707843359	East Suffolk	Toby Abrehart
Area of dry saline lagoon with <i>Carex extensa</i> . Dominated by <i>Juncus gerardii</i> and <i>Phragmites australis</i> . One large clump of <i>C.extensa</i> in centre of quadrat		Date	Quadrat Number
		31/12/2013	290
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		30cm,60cm,10mm	
		Layers Cover	
		50%30%30%	
		Geology:	
		shingle in dry lagoon	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	10
<i>Atriplex glabriuscula</i>	2
<i>Atriplex patula</i>	2
<i>Atriplex portulacoides</i>	2
<i>Carex extensa</i>	5
<i>Elytrigia atherica</i>	5
<i>Juncus gerardii</i>	60
<i>Phragmites australis</i>	10

<i>Puccinellia rupestris</i>	4
<i>Salicornia europaea</i>	2
<i>Spergularia marina</i>	2
<i>Suaeda maritima</i>	2

Location - unit number Unit32	Grid reference TM3705743299	Region East Suffolk	Author Toby Abrehart
Sea wall. Linnets, Cettis warbler, Reed Warbler.Blue tailed damselfly and Small heaths		Date 31/12/2013	Quadrat Number 291
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm	
		Layers Cover 100%	
		Geology: sea wall	
			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	85
Cirsium arvense	1
Cirsium vulgare	1
Elytrigia repens	3
Galium aparine	2
Heracleum sphondyli	1
Lactuca serriola	2
Phragmites australis	2

Urtica dioica	2
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Location - unit number Unit32	Grid reference TM3706643289	Region East Suffolk	Author Toby Abrehart
Long Arrhenatherum elatius grassland 		Date 31/12/2013	Quadrat Number 292
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,15cm,10mm	
		Layers Cover 60%40%30%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	35
Bromus hordeaceus	3
Cerastium fontanum	3
Elytrigia atherica	3
Festuca rubra	40
Hypochaeris radicata	3
Rumex acetosella	2
Rumex crispus	2

Smyrniolum olusatrum	2
Vicia lutea	2

Location - unit number	Grid reference	Region	Author
Unit32	TM3708043262	East Suffolk	Toby Abrehart
Short turf with abundant lichens near to main track. <i>Pilosella officinalis</i> , nearby <i>Echium vulgare</i> too		Date	Quadrat Number
		31/12/2013	293
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		30cm,5cm,10mm	
		Layers Cover	
		15%40%60%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
<i>Aira praecox</i>	3
<i>Arrhenatherum elatius</i>	4
<i>Catapodium rigidum</i>	2
<i>Cerastium diffusum</i>	10
<i>Cerastium semidecand</i>	2
<i>Cladonia coniocraea</i>	50
<i>Crepis vesicaria</i>	3
<i>Festuca rubra</i>	10

<i>Hypnum cupressiform</i>	30
<i>Hypochaeris glabra</i>	1
<i>Plantago lanceolata</i>	3
<i>Poa trivialis</i>	3
<i>Rumex acetosella</i>	5
<i>Sedum acre</i>	3
<i>Sedum anglicum</i>	8
<i>Sedum spurium</i>	2

A photograph of a coastal landscape. In the foreground, a blue rope is stretched across a field of low-lying green and yellow vegetation, possibly marking a study area. The field extends to a body of water in the distance under a cloudy sky.

Plant Name	Plant Density
<i>Aira praecox</i>	2
<i>Arrhenatherum elatius</i>	5
<i>Bostrychia scorpioides</i>	10
<i>Cladonia fimbriata</i>	5
<i>Cladonia furcata</i>	8
<i>Crepis capillaris</i>	1
<i>Crepis vesicaria</i>	5
<i>Festuca rubra</i>	7

Hypochaeris radicata	10
Peltigera canina	3
Plantago lanceolata	2
Pseudosclerodopium	30
Rumex acetosella	40
Sedum anglicum	10
Senecio jacobaea	2
Silene uniflora	15

Location - unit number Unit32	Grid reference TM3710743170	Region East Suffolk	Author Toby Abrehart
To the south of the bungalows. Open shingle ride, limited vegetation. Species nearby, <i>Crambe maritima</i>, <i>Centranthus ruber</i>, <i>Beta vulgaris</i> subsp <i>maritima</i>, <i>Galium verum</i>, <i>Cirsium tenuissimum</i>, <i>Holcus lantanus</i>. 		Date 17/01/2014	Quadrat Number 295
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 65cm,20cm,10mm	
		Layers Cover 5%20%10%	
		Geology: shingle ridge	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	10
<i>Hypnum cupressiform</i>	3
<i>Rumex acetosella</i>	2
<i>Rumex crispus</i> subsp 1	2
<i>Sedum acre</i>	3

Location - unit number Unit33	Grid reference TM3702043048	Region East Suffolk	Author Toby Abrehart
Shingle ridge to south of main trackway to the beach, nearby, Rose bay willowherb. Crambe, Glaucum and sedum acre Vegetation very sparce through much of this section of the unit. 		Date 31/12/2013	Quadrat Number 296
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,10cm	
		Layers Cover 30%10%	
		Geology: shingle ridge	

Species list

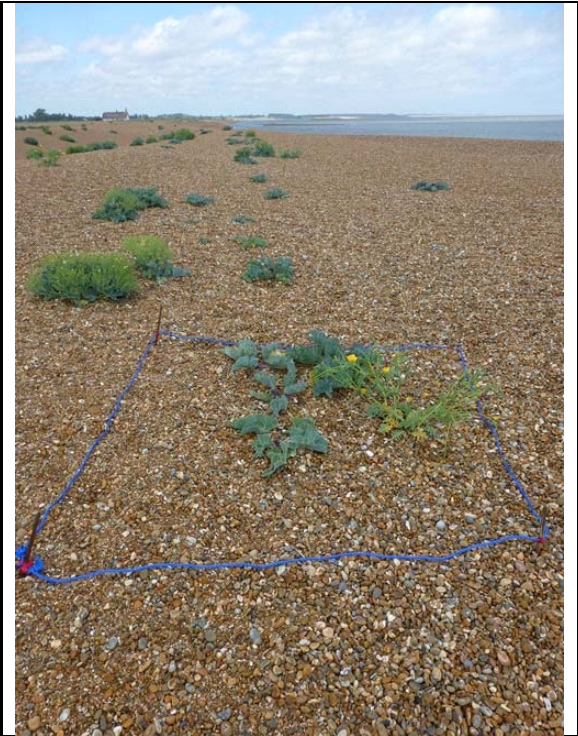
Plant Name	Plant Density
Arrhenatherum elatius	10
Echium vulgare	2
Rumex acetosella	5

Location - unit number	Grid reference	Region	Author
Unit33	TM3703942961	East Suffolk	Toby Abrehart
Area of more stable shingle. With much greater density of plants, 30% bare gravel nearby Red Valerian. Well trodden		Date	Quadrat Number
		31/12/2013	297
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,25cm,5cm	
		Layers Cover	
		15%50%20%	
		Geology:	
		shingle	



Species list

Plant Name	Plant Density
Arrhenatherum elatius	15
Cerastium fontanum	2
Cirsium vulgare	1
Crambe maritima	5
Lactuca serriola	2
Lathyrus japonicus	20

Location - unit number Unit33	Grid reference TM3709142914	Region East Suffolk	Author Toby Abrehart
Shingle ridge nearest to the depositing shingle island. Limited vegetation. Nearby occasional lathyrus japonicus. End of high tide mark of new headland TM3716142847 end of island at high tide TM3730542831 		Date 31/12/2013	Quadrat Number 298
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,15cm	
		Layers Cover 8%12%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Crambe maritima	12
Glaucium flavum	8

Location - unit number	Grid reference	Region	Author
Unit33	TM3694342724	East Suffolk	Toby Abrehart
Shingle ridge near to high tide line. Eroding section of the coast, it is being deposited to the north. Very uniform habitat		Date	Quadrat Number
		31/12/2013	299
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1m,35cm,10mm	
		Layers Cover	
		5%5%8%	
		Geology:	
		shingle	



Species list

Plant Name	Plant Density
Crambe maritima	5
Lathyrus japonicus	5
Rumex crispus subsp 1	5

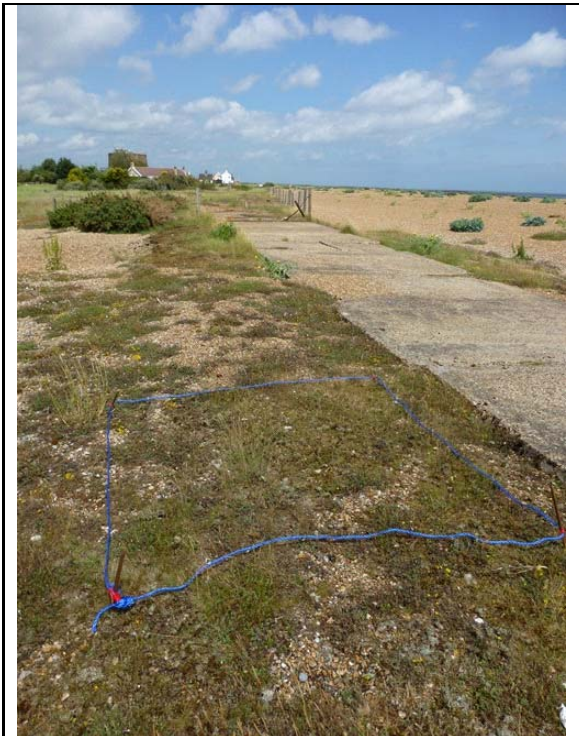
Plant Name	Plant Density
Bare shingle	55
<i>Glaucium flavum</i>	5
<i>Lathyrus japonicus</i>	40

Location - unit number Unit33	Grid reference TM3649742326	Region East Suffolk	Author Toby Abrehart
At the rear of the loose shingle near to the track running south. Abundant shingle with limited vegetation 		Date 31/12/2013	Quadrat Number 301
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 15%15%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Glaucium flavum	15
Silene uniflora	15

Location - unit number Unit33	Grid reference TM3648442335	Region East Suffolk	Author Toby Abrehart
Adjacent to the concrete track running south from the private garden.		Date 04/07/2013	Quadrat Number 302
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,10mm	
		Layers Cover 15%85%	
		Geology: shingle	



Species list

Plant Name	Plant Density
Aira caryophyllea	3
Aira praecox	2
Campylopus introflex	35
Catapodium marinum	2
Catapodium rigidum	1
Cladonia rangiformis	25
Eurhynchium praelon	25
Festuca rubra	15

Hypochaeris glabra	2
Leontodon saxatilis	1
Rumex acetosella	3
Sedum acre	5
Senecio jacobaea	1
Silene uniflora	15
Vulpia bromoides	3

Location - unit number	Grid reference	Region	Author
Unit33	TM3634542116	East Suffolk	Toby Abrehart
At the side of the footpath running to the sea wall. Very agitated lapwing. Short grassland typical through a very large proportion of this section of the unit 33 		Date	Quadrat Number
		31/12/2013	303
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
30cm,5cm,10mm			
Layers Cover			
20%70%40%			
Geology:			
sandy shingle			

Species list

Plant Name	Plant Density
Achillea millefolium	3
Aira praecox	3
Arrhenatherum elatius	1
Bromus hordeaceus su	3
Cerastium fontanum	2
Cerastium semidecand	1
Cladonia furcata	15
Eurhynchium praelon	15

Festuca rubra	15
Lathyrus nissolia	1
Lolium perenne	3
Medicago minima	2
Pilosella officinarum	35
Plantago lanceolata	7
Rumex acetosella	10
Trifolium arvense	5

Location - unit number Unit33	Grid reference TM3619741885	Region East Suffolk	Author Toby Abrehart
Area of very similar grasslands. Running through most of this middle section of the unit Nearby, Beta vulgaris, Lathyrus nissola, 		Date 31/12/2013	Quadrat Number 304
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,15cm,10mm	
		Layers Cover 15%50%60%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	15
Brachythecium albican	5
Bromus hordeaceus su	15
Cirsium vulgare	1
Cladonia fimbriata	25
Crepis vesicaria	3
Festuca rubra	25
Hypnum cupressiform	30

Hypochaeris glabra	3
Hypochaeris radicata	2
Plantago lanceolata	5
Rumex acetosella	20
Sedum acre	2
Silene uniflora	3
Sonchus oleraceus	1
Tragopogon pratensis	1

Location - unit number	Grid reference	Region	Author
Unit33	TM3658942493	East Suffolk	Toby Abrehart
Near to the houses of Shingle Street Very short grazed grasslands with numerous uncommon species <i>Trifolium glomeratum</i> , <i>Trifolium suffocatum</i>		Date	Quadrat Number
		31/12/2013	305
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		10cm,10mm	
		Layers Cover	
		3%95%	
		Geology:	
		compacted grazed shingle	

Species list

Plant Name	Plant Density
<i>Achillea millefolium</i>	5
<i>Aira caryophylla</i>	5
<i>Brachythecium albican</i>	60
<i>Carduus tenuiflorus</i>	1
<i>Catapodium marinum</i>	3
<i>Cerastium fontanum</i>	2
<i>Cerastium semidecand</i>	3
<i>Echium vulgare</i>	1

<i>Festuca ovina</i>	2
<i>Galium verum</i>	2
<i>Holcus lanatus</i>	2
<i>Lolium perenne</i>	2
<i>Medicago minima</i>	1
<i>Peltigera canina</i>	25
<i>Phleum bertolonii</i>	2
<i>Plantago coronopus</i>	25

Location - unit number Unit33	Grid reference TM3666442569	Region East Suffolk	Author Toby Abrehart
Area of well trampled grassland near to the houses. Festuca dominated 		Date 31/12/2013	Quadrat Number 306
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,10mm	
		Layers Cover 15%85%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Bellis perennis	2
Brachythecium albican	5
Bromus hordeaceus	10
Cerastium fontanum	3
Crepis vesicaria	4
Echium vulgare	2
Festuca rubra	20
Hypnum cupressiform	10

Lolium perenne	20
Peltigera canina	10
Plantago coronopus	15
Plantago lanceolata	15
Sedum acre	5
Silene uniflora	2
Vulpia bromoides	5

Location - unit number	Grid reference	Region	Author
Unit33	TM3675242695	East Suffolk	Toby Abrehart
To the east of the path near to the houses. Mostly old dune grassland with a few extras in for good luck. Nearby; Escholzia californica, Lavatera arborea, Fennel, Crambe maritima 		Date	Quadrat Number
		31/12/2013	307
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,15cm,10mm	
		Layers Cover	
		5%35%70%	
		Geology:	
		sandy shingle	

Species list

Plant Name	Plant Density
Achillea millefolium	5
Aira caryophyllea	4
Arrhenatherum elatius	4
Brachythecium albican	25
Briza maxima	15
Cerastium fontanum	4
Cladonia furcata	5
Cladonia rangiformis	15

Crepis vesicaria	2
Festuca rubra	20
Helichrysum italicum	5
Hypnum cupressiform	45
Hypochaeris radicata	3
Petroselinum crispum	1
Rumex acetosella	10
Sedum album	4

A photograph of a grassy field with a blue rope boundary. The field is covered in tall, green grass with some brown, dried grass interspersed. A blue rope is strung across the field, forming a rectangular shape. The rope is held up by several wooden stakes. In the background, there is a line of trees and a small building under a clear blue sky.

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	25
<i>Carex distans</i>	2
<i>Cirsium vulgare</i>	2
<i>Festuca rubra</i>	30
<i>Holcus lanatus</i>	30
<i>Lathyrus nissolia</i>	2
<i>Senecio erucifolius</i>	2

Location - unit number Unit33	Grid reference TM3628542144	Region East Suffolk	Author Toby Abrehart
Low sea wall dividing lagoons from grassland to north. Dominated with <i>Arrhenatherum elatius</i>. All the higher ground is of this community 		Date 31/12/2013	Quadrat Number 309
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 80cm	
		Layers Cover 100%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
<i>Agrostis canina</i>	2
<i>Arrhenatherum elatius</i>	90
<i>Cirsium arvense</i>	2
<i>Cynosurus cristatus</i>	2
<i>Dactylis glomerata</i>	2
<i>Elytrigia atherica</i>	2
<i>Festuca rubra</i>	4
<i>Hordeum secalinum</i>	2

<i>Lolium perenne</i>	3
<i>Phleum bertolonii</i>	2

A photograph of a field with tall green grass and a blue rope tied in a loop on the ground. The rope is blue with a red and white patterned end. The field is mostly green with some brown patches, and there are some trees in the background.

Plant Name	Plant Density
<i>Elytrigia atherica</i>	2
<i>Glaux maritima</i>	35
<i>Juncus gerardii</i>	90
<i>Juncus maritimus</i>	2
<i>Puccinellia maritima</i>	2
<i>Spergularia marina</i>	2

Location - unit number Unit33	Grid reference TM3629142100	Region East Suffolk	Author Toby Abrehart
Area dominated by <i>Puccinellia maritima</i>. A uniform constituent of this layer 		Date 31/12/2013	Quadrat Number 311
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: salt marsh in lagoon	

Species list

Plant Name	Plant Density
Aster tripolium	1
Bare mud	5
Puccinellia maritima	94

Location - unit number Unit33	Grid reference TM4625842090	Region East Suffolk	Author Toby Abrehart
The main lagoon. Dominated with Ruppia maritima and little else. 		Date 31/12/2013	Quadrat Number 312
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 0	
		Layers Cover 100%	
		Geology: lagoon	

Species list

Plant Name	Plant Density
Ruppia maritima	100

Location - unit number Unit33	Grid reference TM3626542061	Region East Suffolk	Author Toby Abrehart
Grassland inbetween the lagoons. Elytrigia dominated		Date 31/12/2013	Quadrat Number 313
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm	
		Layers Cover 100%	
		Geology: muddy soils	
			

Species list

Location - unit number Unit33	Grid reference TM3624342023	Region East Suffolk	Author Toby Abrehart
Area just to south of tank blocks. Carex extensa; one large plant 50cm across and a smaller one 30cm across, 2 more plants at TM3624542018. smaller clumps 40cm across the two. 		Date 31/12/2013	Quadrat Number 314
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	8
Carex extensa	10
Glaux maritima	2
Juncus gerardii	80
Plantago maritima	1
Puccinellia fasciculata	2
Spergularia marina	2
Triglochin maritimum	2

Location - unit number	Grid reference	Region	Author
Unit33	TM3615341770	East Suffolk	Toby Abrehart
Dry grassland on the old stable shingle running through much of the unit. <i>Vicia lutea</i> common across the entire habitat. 		Date	Quadrat Number
		31/12/2013	315
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,25cm,10mm	
		Layers Cover	
		10%35%60%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	10
<i>Cerastium fontanum</i>	5
<i>Cladonia fimbriata</i>	0
<i>Festuca rubra</i>	15
<i>Hypnum cupressiflor</i>	50
<i>Hypochaeris radicata</i>	3
<i>Plantago lanceolata</i>	5
<i>Sedum acre</i>	5

<i>Senecio jacobaea</i>	5
<i>Silene uniflora</i>	8
<i>Trifolium arvense</i>	3
<i>Vicia hirsuta</i>	3
<i>Vicia lutea</i>	5

A photograph of a grassy field with a blue rope forming a large loop on the ground. In the background, there is a body of water and a line of trees under a blue sky.

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	4
<i>Cerastium fontanum</i>	2
<i>Festuca rubra</i>	90
<i>Hypochaeris radicata</i>	2
<i>Plantago lanceolata</i>	2
<i>Vicia hirsuta</i>	2
<i>Vicia lutea</i>	2

Location - unit number Unit33	Grid reference TM3622541853	Region East Suffolk	Author Toby Abrehart
Carex extensa lagoon. Southern end with four large plants and 15 smaller ones. Nearby; Juncus maritimus 		Date 31/12/2013	Quadrat Number 317
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 25cm	
		Layers Cover 100%	
		Geology: shingle covered in mud	

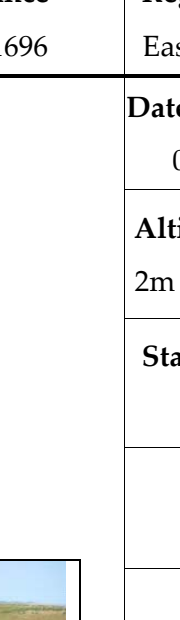
Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	10
Carex extensa	15
Elytrigia atherica	4
Juncus gerardii	70
Spergularia marina	1
Triglochin maritimum	2

Location - unit number Unit33	Grid reference TM3613541813	Region East Suffolk	Author Toby Abrehart
Area of dried shingle an extention to the drying lagoon. Dominated with Parapholis incurva and Festuca rubra subsp littoralis.		Date 31/12/2013	Quadrat Number 318
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,5cm,10mm	
		Layers Cover 10%45%60%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
Bare shingle	20
Bostrychia scorpioides	65
Elytrigia atherica	10
Festuca rubra subsp lit	15
Parapholis incurva	30
Plantago coronopus	15
Spergularia marina	2

Location - unit number	Grid reference	Region	Author
Unit33	TM3610841696	East Suffolk	Toby Abrehart
Sea wall 		Date	Quadrat Number
		05/07/2013	319
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
65cm			
Layers Cover			
100%			
Geology:			
clay wall			

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	95
<i>Cirsium arvense</i>	2
<i>Galium aparine</i>	2
<i>Smyrnum olusatrum</i>	2

Location - unit number Unit33	Grid reference TM3605341537	Region East Suffolk	Author Toby Abrehart
Northern end of drying lagoon. Elytrigia dominated		Date 31/12/2013	Quadrat Number 320
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm	
		Layers Cover 100%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
<i>Atriplex littoralis</i>	2
<i>Elytrigia atherica</i>	85
<i>Juncus gerardii</i>	14

Location - unit number Unit33	Grid reference TM3603241465	Region East Suffolk	Author Toby Abrehart
Lagoon at a lower level. Dominated with <i>Spergularia marina</i> and <i>Juncus gerardii</i>		Date 31/12/2013	Quadrat Number 321
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,5cm	
		Layers Cover 35%40%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex littoralis</i>	2
<i>Elytrigia atherica</i>	2
<i>Juncus gerardii</i>	35
<i>Salicornia europaea</i>	2
<i>Spergularia marina</i>	55
<i>Suaeda maritima</i>	2

Location - unit number Unit33	Grid reference TM3604041452	Region East Suffolk	Author Toby Abrehart
West of the bank of Broom. West facing slope. Well vegetated shingle with none showing through. Abundant moss sp 		Date 31/12/2013	Quadrat Number 322
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,15cm,10mm	
		Layers Cover 10%50%70%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	10
Brachythecium albican	10
Bromus hordeaceus	10
Cerastium fontanum	5
Cladonia coniocraea	2
Crepis vesicaria	2
Festuca rubra	5
Hypnum cupressiform	65

Hypochaeris radicata	2
Rumex acetosella	15
Sedum acre	5
Senecio jacobaea	3
Silene uniflora	30
Tragopogon pratensis	2
Vicia lutea	3
Vulpia bromoides	6

Location - unit number Unit33	Grid reference TM3596141222	Region East Suffolk	Author Toby Abrehart
Southern eastern end of this lagoon. The lagoon is all but dry at the moment with abundant salt panned cracked muds throughout. This section is higher than salt panned bit by 10cm. This community occurs across the small peninsula sticking into the lagoon!. 		Date 31/12/2013	Quadrat Number 323
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm,0mm	
		Layers Cover 45%55%	
		Geology: muds over shingle	

Species list

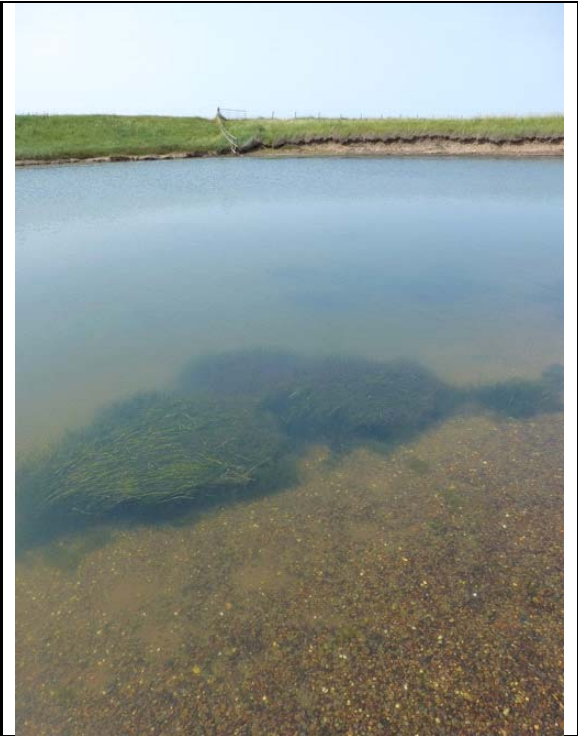
Plant Name	Plant Density
Aster tripolium	5
Parapholis incurva	15
Puccinellia rupestris	3
Salicornia europaea	10
Spergularia marina	25
Suaeda maritima	3

Location - unit number Unit33	Grid reference TM3598341173	Region East Suffolk	Author Toby Abrehart
Western side of the shingle ridge before the lagoon. More sparsely vegetated than the area near to the broom. Only 60% coverage 		Date 31/12/2013	Quadrat Number 324
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,20cm,10mm	
		Layers Cover 5%40%10%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	10
Bostrychia scorpioides	10
Bromus hordeaceus su	5
Cerastium fontanum	2
Cladonia furcata	10
Hypochaeris radicata	10
Lactuca serriola	2
Leontodon hispidus	3

Plantago lanceolata	10
Pseudosclerodopium	0
Sedum acre	5
Senecio jacobaea	2
Silene uniflora	30
Vicia lutea	2
Xanthoria polycarpa	2

Location - unit number Unit33	Grid reference TM3592641045	Region East Suffolk	Author Toby Abrehart
The southern most lagoon. Abundant water that has receded 6 inches since the winter. Huge numbers of inverts in the water. Dominated with <i>Ruppia maritima</i> and filamentous algae 		Date 31/12/2013	Quadrat Number 325
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 0	
		Layers Cover 100%	
		Geology: open water	

Species list

Plant Name	Plant Density
Enteromorpha intestna	10
Open water	20
Ruppia maritima	70

Location - unit number Unit33	Grid reference TM3593641043	Region East Suffolk	Author Toby Abrehart
Elytrigia margin above high water line and the Sueda and spergularia line, Beta vulgaris nearby. This grassland blends into the festuca 		Date 31/12/2013	Quadrat Number 326
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm10mm	
		Layers Cover 95%20%	
		Geology: shaingle	

Species list

Plant Name	Plant Density
Atriplex littoralis	2
Elytrigia atherica	90
Festuca rubra	10
Suaeda maritima	2

A photograph of a grassy field with a blue rope forming a rectangular shape on the ground. The rope is laid out in a large rectangle, with one corner secured by a red and blue knot. The field is covered in tall, dry grass, and the background shows a clear blue sky and a distant horizon line.

Plant Name	Plant Density
Cerastium fontanum	2
Cladonia fimbriata	4
Cladonia humilis	10
Festuca rubra	40
Hypnum cupressiform	50
Plantago lanceolata	2
Sedum acre	4
Silene uniflora	20

Location - unit number Unit33	Grid reference TM3592440923	Region East Suffolk	Author Toby Abrehart
Mosaic shingle vegetation. Transition from Festuca grassland to Arrhenatherum sparse grassland.		Date 31/12/2013	Quadrat Number 328
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,5cm,10mm	
		Layers Cover 10%65%45%	
		Geology: shingle	



Species list

Plant Name	Plant Density
Aira praecox	5
Arrhenatherum elatius	10
Beta vulgaris subsp. M	3
Bromus hordeaceus	10
Catapodium marinum	3
Catapodium rigidum	10
Cladonia fimbriata	5
Cladonia portentosa	10

Eurhynchium praelon	50
Festuca rubra	15
Hypochaeris radicata	5
Peltigera canina	5
Poa trivialis	3
Sedum acre	3
Silene uniflora	50
Sonchus oleraceus	2

Location - unit number	Grid reference	Region	Author
Unit33	TM3585140633	East Suffolk	Toby Abrehart
Sothorn end of the lagoon. Rapidly drying margin to water. Large quantities of <i>Ruppia maritima</i> 		Date	Quadrat Number
		31/12/2013	329
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		0	
		Layers Cover	
		100%	
		Geology:	
		muds over shingle	

Species list

Plant Name	Plant Density
<i>Enteromorpha intestin</i>	20
<i>Ruppia maritima</i>	60

Location - unit number Unit33	Grid reference TM3590940757	Region East Suffolk	Author Toby Abrehart
Southern end of site . Pioneer community, nearby occasional <i>Beta vulgaris</i> , <i>Atriplex littoralis</i> , <i>Glaucum falvum</i>		Date 31/12/2013	Quadrat Number 330
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10mm	
		Layers Cover 30%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
<i>Atriplex glabriuscula</i>	10
<i>Cochlearia officinalis</i>	5
<i>Silene uniflora</i>	5

A photograph showing a coastal study site. A blue rope is stretched across a pebbly beach to delineate a rectangular plot. The plot is densely populated with low-growing green plants. The beach is composed of small, light-colored pebbles and shells. In the background, the calm sea meets a clear, bright blue sky. The horizon is visible in the distance.

Plant Name	Plant Density
<i>Atriplex glabriuscula</i>	15
<i>Beta vulgaris</i> subsp. M	5
<i>Bostrychia scorpioides</i>	3
<i>Cochlearia officinalis</i>	15
<i>Silene uniflora</i>	5
<i>Xanthoria polycarpa</i>	2

Location - unit number Unit33	Grid reference TM3596940964	Region East Suffolk	Author Toby Abrehart
Area of shingle dominated with <i>Silene uniflora</i> and lichens. 15% bare shingle 		Date 31/12/2013	Quadrat Number 332
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm,2cm	
		Layers Cover 5%80%	
		Geology: shingle	

Species list

Plant Name	Plant Density
<i>Aira praecox</i>	3
<i>Catapodium marinum</i>	2
<i>Ceratodon purpureus</i>	20
<i>Cladonia fimbriata</i>	5
<i>Cladonia portentosa</i>	50
<i>Cochlearia officinalis</i>	10
<i>Hypochaeris radicata</i>	2
<i>Sedum acre</i>	5

<i>Silene uniflora</i>	55
<i>Vulpia bromoides</i>	5
<i>Xanthoria polycarpa</i>	2

Location - unit number Unit33	Grid reference TM3600841067	Region East Suffolk	Author Toby Abrehart
Opposite martello tower at vegetation edge Nearby, Arrhenathrum elatius, Cochlearia officinalis, Sonchus asper, Hypochaeris radicata, Sedum acre		Date 31/12/2013	Quadrat Number 333
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm	
		Layers Cover 45%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
Beta vulgaris subsp. M	2
Glaucium flavum	3
Lathyrus japonicus	15
Silene uniflora	35

Location - unit number Unit33	Grid reference TM3599241090	Region East Suffolk	Author Toby Abrehart
Area of sparse Arrhenatherum elatius behind first shingle ridge. Silene disappears and there is this community with frequent Geranium robertianum ssp maritima. Nearby, Sonchus oleraceus, Beta vulgaris 		Date 31/12/2013	Quadrat Number 334
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm, 5cm	
		Layers Cover 15% 25%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	15
Crepis vesicaria	2
Geranium robertianum	10
Sedum acre	2
Senecio jacobaea	2

Location - unit number	Grid reference	Region	Author
Unit33	TM3613041395	East Suffolk	Toby Abrehart
Shore line sample, at edge of shingle ridge nearest to sea. Sparse vegetation. Nearby occasional, Festuca rubra, Bromus hordaceus, Vulpia myosurus, Vulpia bromoides. 		Date	Quadrat Number
		31/12/2013	336
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
30cm,5cm			
Layers Cover			
30%15%			
Geology:			
shingle			

Species list

Plant Name	Plant Density
Beta vulgaris subsp. M	1
Catapodium marinum	2
Cochlearia officinalis	3
Crambe maritima	20
Glaucium flavum	5
Hypochaeris radicata	2
Lathyrus japonicus	24
Silene uniflora	10

Location - unit number Unit33	Grid reference TM3614241531	Region East Suffolk	Author Toby Abrehart
Rich lichen heath. This large section of the shingle grasslands has a very high density of lichens where it is the dominant community		Date 31/12/2013	Quadrat Number 337
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,10cm,10mm	
		Layers Cover 10%25%80%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	10
Bromus hordeaceus	2
Cerastium fontanum	4
Cerastium semidecand	2
Cladonia ciliata agg	3
Cladonia portentosa	70
Crepis vesicaria	2
Hypochaeris radicata	3

Rumex acetosella	5
Senecio jacobaea	2
Silene uniflora	10
Vulpia bromoides	3
Vulpia myuros	2

Location - unit number Unit33	Grid reference TM3623741730	Region East Suffolk	Author Toby Abrehart
Area of Arrhenatherum elatius dominated grassland, though still sparse coverage. The lichen component of this community seems to have stopped being a part here. The shingle is less stable and the habitat is closer to the sea here. 		Date 31/12/2013	Quadrat Number 338
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,10cm	
		Layers Cover 30%30%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	30
Crepis vesicaria	5
Hypochaeris radicata	3
Silene uniflora	20

Location - unit number	Grid reference	Region	Author
Unit31	TM3968546504	East Suffolk	Toby Abrehart
Sea wall at confluence of Butley Creek and Ore. Arrhenatherum elatius dominant at higher level, Elytrigia atherica at lower section.		Date	Quadrat Number
		31/12/2013	340
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		65cm,30cm	
		Layers Cover	
		50%50%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	50
Cerastium fontanum	22
Draba incana	25
Elytrigia atherica	25
Galium aparine	2
Geranium dissectum	2
Picris echioides	2
Seriphidium maritimu	4

Sonchus oleraceus	2
Torilis nodosa	2
Vicia hirsuta	2
Vicia sativa	1

Location - unit number	Grid reference	Region	Author
Unit31	TM3969846486	East Suffolk	Toby Abrehart
Annual salicornia bed below ssmall area of shingle 		Date	Quadrat Number
		08/07/2013	341
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
3cm			
Layers Cover			
40%			
Geology:			
muds over shingle			

Species list

Location - unit number Unit31	Grid reference TM3966746475	Region East Suffolk	Author Toby Abrehart
Lower saltmarsh. This habitat stretches all along this region of the unit. Nearby Aster tripolium 66% correlation		Date 31/12/2013	Quadrat Number 342
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Atriplex portulacoides	35
Festuca rubra	5
Limonium vulgare	5
Plantago maritima	25
Puccinellia maritima	30

Location - unit number	Grid reference	Region	Author
Unit31	TM3966346465	East Suffolk	Toby Abrehart
Upper saltmarsh rarely flooded. Dominated with <i>Seriphidium maritimum</i>		Date	Quadrat Number
		31/12/2013	343
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		15cm,5cm	
		Layers Cover	
		60%40%	
		Geology:	
		saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	5
Bare mud	5
<i>Festuca rubra</i>	50
<i>Limonium vulgare</i>	5
<i>Plantago maritima</i>	15
<i>Seriphidium maritimu</i>	20

Location - unit number Unit31	Grid reference TM3962946435	Region East Suffolk	Author Toby Abrehart
Raised old shingle beach. Very lichen rich. One set of tyre tracks running through the site 		Date 31/12/2013	Quadrat Number 344
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,15cm,10mm	
		Layers Cover 15%25%60%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Armeria maritima	20
Atriplex portulacoides	2
Cerastium diffusum	5
Festuca rubra	15
Plantago coronopus	3
Sedum acre	6
Silene uniflora	5

Location - unit number	Grid reference	Region	Author
Unit31	TM3961446418	East Suffolk	Toby Abrehart
Area of stable shingle at edge of small depression. Limonium binervosum are only on the east facing slope. Abundant Parapholis incurva too. A Fabulous site		Date	Quadrat Number
		31/12/2013	345
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
		18mx2m	4
		Layers mean height	
		30cm,10mm	
		Layers Cover	
		85%35%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
Armeria maritima	8
Atriplex portulacoides	15
Cladonia furcata	2
Collema tenax	10
Elytrigia atherica	5
Festuca rubra	25
Limonium binervosu	15
Parapholis incurva	10

Plantago maritima	5
Seriphidium maritimu	7
Xanthoria polycarpa	5

Location - unit number Unit31	Grid reference TM3955746378	Region East Suffolk	Author Toby Abrehart
Area of Limonium binervosum. Large area occ flooded at spring tides, car track through this habitat 		Date 31/12/2013	Quadrat Number 346
		Altitude 0m	Soil Depth
		Stand Area 33mx8m	Sample Area 4
		Layers mean height 10cm,5cm	
		Layers Cover 50%35%15%	
		Geology: saltmarsh over shingle	

Species list

Plant Name	Plant Density
Armeria maritima	35
Atriplex portulacoides	15
Bare mud	0
Elytrigia atherica	2
Festuca rubra	4
Limonium binervosu	40
Parapholis incurva	10
Plantago coronopus	10

Plantago maritima	15
Puccinellia maritima	2

Location - unit number Unit31	Grid reference TM3946046325	Region East Suffolk	Author Toby Abrehart
Northern end of the Vicia lutea habitat. A large typical grassland community through this northern section of this unit. Habitat is below the lichen rich arrhenatherum elatius grasslands but above the Atriplex porulacoides transition zone. Nearby; Sedum anglicum, Beta vulgaris 		Date 17/01/2014	Quadrat Number 347
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm,10mm	
		Layers Cover 10%75%40%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Armeria maritima	3
Bromus hordeaceus	4
Cerastium fontanum	10
Cladonia portentosa	40
Festuca rubra	40
Lotus tenuis	3
Plantago lanceolata	10
Sedum acre	5

Silene uniflora	5
Trifolium arvense	7
Vicia lutea	5
Vicia sativa	4
Vulpia bromoides	3

Location - unit number	Grid reference	Region	Author
Unit31	TM3929146230	East Suffolk	Toby Abrehart
An interesting habitat, created when a boat has been upturned used in the sea and returned to a different spot, leaving an area of almost bare stable shingle. Here <i>Limnium binervosum</i> starts to colonise. In 2x2m patches. Nearby, <i>Trifolium glomeratum</i>, <i>Trifolium striatum</i>, <i>Trifolium scabrum</i>, <i>Vicia lutea</i>, <i>Tripleurospermum maritimum</i> 		Date	Quadrat Number
		31/12/2013	348
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
		2x2m	4
		Layers mean height	
		10cm,10mm	
		Layers Cover	
		30%80%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	15
<i>Atriplex portulacoides</i>	15
<i>Catapodium maritimum</i>	2
<i>Festuca rubra</i>	10
<i>Limnium binervosum</i>	10
<i>Parapholis incurva</i>	12
<i>Plantago coronopus</i>	10
<i>Plantago maritima</i>	10

<i>Seriphidium maritimum</i>	5
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Location - unit number Unit31	Grid reference TM3923246225	Region East Suffolk	Author Toby Abrehart
Area of Limonium vulgare saltmarsh, a large proportion of the saltmarsh is of this community. Scattered pans of bare mud only one with any water in it, no Nematosella. Spartina maritima at TM3922746211. Limonium binervosum habitat at TM3912946170. Same stuff as before, gravels above main saltmarsh, on sheltered side of lichen heath grasslands. 8x2m. Also from TM3910646171, to TM3909446175 all on the higher ground above the Limonium vulgare 		Date 31/12/2013	Quadrat Number 349
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 6cm, 10mm	
		Layers Cover 45% 65%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Limonium vulgare	65
Puccinellia maritima	20
Salicornia ramosissima	10
Spergularia rubra	2

Location - unit number Unit31	Grid reference TM3906646157	Region East Suffolk	Author Toby Abrehart
In this section of the saltmarsh where there is more protection form the sea by a wider area of Festuca/Armeria/lichen grassland there are larger stands of Juncus gerardii. Limonium bin at TM3907746140 - 27 x2m, TM3904746127 25x1m, TM3903446122 10x1m, TM3901546110 5x1m, TM3897246074x1m. 		Date 31/12/2013	Quadrat Number 350
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 35cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	3
Atriplex portulacoides	2
Juncus gerardii	85
Limonium vulgare	2
Parapholis incurva	2
Plantago maritima	3
Spergularia marina	0
Triglochin maritimum	4

Location - unit number	Grid reference	Region	Author
Unit31	TM3903146028	East Suffolk	Toby Abrehart
Area of pure Elytrigia atherica. There several patches of this habitat above the high tide line before the Festuca grassland appears. 		Date	Quadrat Number
		31/12/2013	351
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm	
		Layers Cover	
		100	
		Geology:	
		saltmarsh over shingle	

Species list

Plant Name	Plant Density
Elytrigia atherica	99
Seriphidium maritimu	1

Location - unit number	Grid reference	Region	Author
Unit31	TM3902846033	East Suffolk	Toby Abrehart
Upper saltmarsh near to the sea/river. Below Elytrigia atherica and Seriphidium maritimum transition. Nearby, Spergularia rubra, Seriphidium maritimum. Spartina maritima TM3890746067. Limonium binervosum TM3887446039 30x1m, and at TM3886246012 from here to TM3880745988 to TM3878245944. Vicia lutea TM3873845900 		Date	Quadrat Number
		31/12/2013	352
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
20cm			
Layers Cover			
100%			
Geology:			
saltmarsh over shingle			

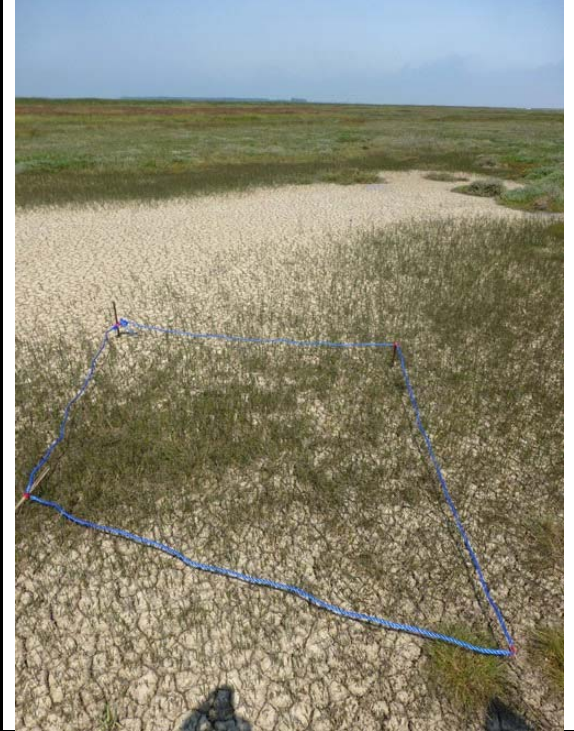
Species list

Plant Name	Plant Density
Aster tripolium	1
Atriplex portulacoides	50
Plantago maritima	1
Puccinellia maritima	50

Location - unit number	Grid reference	Region	Author
Unit31	TM3889846058	East Suffolk	Toby Abrehart
Spartina anglica colony. In this pan 10m2, also at TM3889446038 14m2, TM3887746021 10m2		Date	Quadrat Number
		31/12/2013	353
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		35cm,0mm	
		Layers Cover	
		85%15%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	10
Spartina anglica	90

Location - unit number Unit31	Grid reference TM3875945867	Region East Suffolk	Author Toby Abrehart
One of several larger dry pans with a dominant flora of salicornia sp leading into the Puccinellia maritima and Spartina maritima community on this pool. Spartina maritima 30mx2m scattered not dominant. All surrounding SM is Limonium vulgare, Atriplex portulacoides, Salicornia ramosissima and Spergularia community. Upper community turns into Juncus gerardii - Festuca rubra grasslands. Inland on old shingle ridges still numerous 		Date 31/12/2013	Quadrat Number 354
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 3cm, 0mm	
		Layers Cover 45% 55%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	60
Salicornia europaea	40

Location - unit number Unit31	Grid reference TM3867845881	Region East Suffolk	Author Toby Abrehart
Agrostis grasslands to the south here, still with abundant Armeria maritima 		Date 31/12/2013	Quadrat Number 355
		Altitude 1/2 m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 35cm,10mm	
		Layers Cover 90%10%	
		Geology: shingle	

Species list

Plant Name	Plant Density
Agrostis canina	65
Armeria maritima	20
Atriplex portulacoides	10
Beta vulgaris subsp. M	2
Dicranum scoparium	10
Festuca rubra	15
Trifolium arvense	5
Vicia lutea	1

Location - unit number Unit31	Grid reference TM3877345996	Region East Suffolk	Author Toby Abrehart
Sea wall dominated with Arrhenatherum elatius		Date 31/12/2013	Quadrat Number 356
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm	
		Layers Cover 100%	
		Geology: clay sea wall	
			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	60
Cirsium arvense	10
Draba incana	20
Festuca rubra	10
Galium aparine	2
Geranium dissectum	5
Holcus lanatus	5
Hordeum secalinum	3

Lathyrus nissolia	2
Picris echinoides	3
Sonchus asper	2
Torilis nodosa	4
Vicia hirsuta	3

Location - unit number	Grid reference	Region	Author
Unit31	TM3857045788	East Suffolk	Toby Abrehart
Upper saltmarsh with na good amount of Glaux maritima in the Juncus gerardii. This community is scattered along this section to the south of here. 		Date	Quadrat Number
		31/12/2013	357
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
Layers mean height			
30cm, 8cm			
Layers Cover			
65%35%			
Geology:			
saltmarsh edge			

Species list

Plant Name	Plant Density
Armeria maritima	10
Aster tripolium	2
Glaux maritima	35
Juncus gerardii	50
Limonium vulgare	2
Plantago maritima	20
Puccinellia maritima	2
Salicornia ramosissima	3

Spergularia media	3
Triglochin maritimum	2

A photograph showing a rectangular plot outlined with blue tape on a field of grass and cracked, dry soil. The plot is situated in a grassy area with a path leading away from it towards a distant horizon under a cloudy sky. The shadow of the person taking the photo is visible in the lower foreground.

Plant Name	Plant Density
Bare mud	15
<i>Puccinellia maritima</i>	50
<i>Salicornia ramosissima</i>	25

Location - unit number	Grid reference	Region	Author
Unit31	TM3835245496	East Suffolk	Toby Abrehart
Upper saltmarsh grasslands a mosaic of festuca and agrostis scattered through this section of the unit.Spartina maritima at TM3832545433 4m2 sparse density		Date	Quadrat Number
		31/12/2013	359
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		35cm	
		Layers Cover	
		100%	
		Geology:	
		mud over shingle	



Species list

Plant Name	Plant Density
Agrostis canina	40
Armeria maritima	8
Cynosurus cristatus	15
Festuca rubra	10
Hordeum secalinum	15
Lotus tenuis	15
Ononis spinosa	5
Plantago coronopus	2

Location - unit number Unit31	Grid reference TM3831545419	Region East Suffolk	Author Toby Abrehart
Area of lower saltmarsh with well scattered Spartina and abundant Puccinellia maritima. Nearby in the lower muddier habitats are a community of annual saltmarsh and occasional Puccinellia maritima 		Date 31/12/2013	Quadrat Number 360
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 8cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

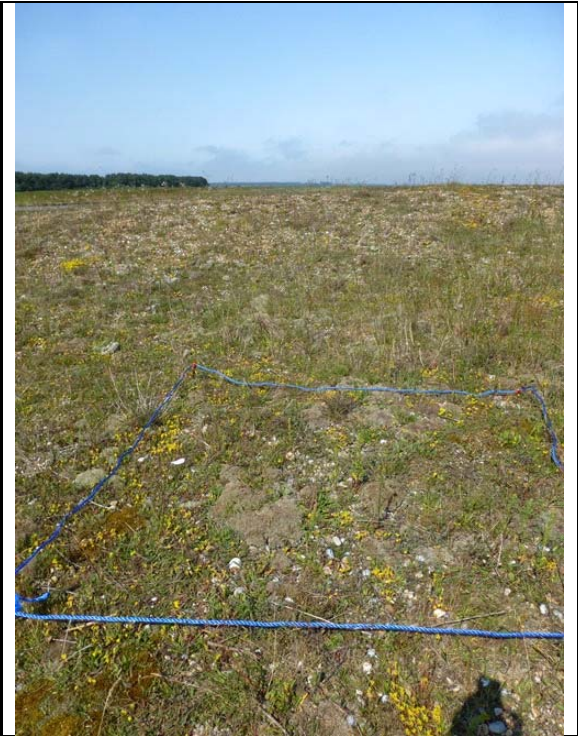
Plant Name	Plant Density
Aster tripolium	2
Puccinellia maritima	70
Salicornia ramosissima	30
Spartina anglica	20

Location - unit number	Grid reference	Region	Author
Unit31	TM3822045360	East Suffolk	Toby Abrehart
Upper saltmarsh, a good quantity of <i>Seriphidium maritimum</i> . <i>Vicia lutea</i> TM3823045295, abundant here		Date	Quadrat Number
		31/12/2013	361
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		15cm,5cm,0mm	
		Layers Cover	
		10%60%20%	
		Geology:	
		slatmarsh	



Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	3
Bare mud	30
<i>Elytrigia atherica</i>	4
<i>Festuca rubra</i>	5
<i>Plantago maritima</i>	25
<i>Puccinellia maritima</i>	10
<i>Seriphidium maritimu</i>	35
<i>Spergularia rubra</i>	2

Location - unit number	Grid reference	Region	Author
Unit31	TM3825845269	East Suffolk	Toby Abrehart
Area of raised shingle, forming a ridge. Covered in deep lichens. Beta vulgaris nearby. Suaeda vera TM3817345159, TM3814545139 Limonium binervosum, TM3811245110 only ten plants here. Atriplex glabriscula TM3811145104 		Date	Quadrat Number
		31/12/2013	362
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		20cm,2cm	
		Layers Cover	
		10%90%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	5
Cladonia rangiformis	60
Crepis capillaris	5
Eurhynchium praelon	5
Festuca rubra	5
Hypochaeris glabra	3
Hypochaeris radicata	7
Sedum acre	15

Senecio jacobaea	5
Silene uniflora	10
Sonchus oleraceus	2
Vicia lutea	5

Location - unit number	Grid reference	Region	Author
Unit31	TM3805045048	East Suffolk	Toby Abrehart
		Date	Quadrat Number
		31/12/2013	363
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		2cm	
		Layers Cover	
		40%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
Atriplex glabriuscula	2
Atriplex littoralis	2
Beta vulgaris subsp. M	2
Catapodium marinum	3
Cerastium fontanum	1
Cochlearia officinalis	1
Elytrigia atherica	2
Festuca rubra	3

Medicago lupulina	2
Phleum bertolonii	2
Plantago coronopus	2
Plantago lanceolata	1
Plantago major	1
Poa infirma	2
Polygonum aviculare	2
Rumex crispus subsp 1	3

Location - unit number Unit31	Grid reference TM3756044503	Region East Suffolk	Author Toby Abrehart
Salt marsh at top of the shingle spur running north from shingle street. Considerable movement of this shingle bar over some old saltmarsh. Dynamic coastline in action. Much of this northern section with abundant <i>Puccinellia distans</i>. One clump of <i>Juncus maritimus</i> 3x4m 		Date 31/12/2013	Quadrat Number 364
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 100%	
		Geology: saltmarsh over shingle	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	50
<i>Limonium vulgare</i>	10
<i>Puccinellia distans</i>	30
<i>Salicornia europaea</i>	5
<i>Spergularia media</i>	2

Location - unit number Unit31	Grid reference TM3755144462	Region East Suffolk	Author Toby Abrehart
Armeria and limonium saltmarsh at edge of shingle bar. A dominant community with a matrix of Puccinellia distans throughout at 40%. Nearby Golden samphire three plants two within the new shingle. Limonium binervosum at TM3746444363 on lichen grasslands. Limonium humile at TM3750644402 within encroaching shingle. At TM3741544258 there were just three Limonium binervosum plants at the top of the more open shingle community here. Nowhere else for it to go, no more higher 		Date 31/12/2013	Quadrat Number 365
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 4cm	
		Layers Cover 100%	
		Geology: saltmarsh over shingle	

Species list

Plant Name	Plant Density
Armeria maritima	55
Atriplex portulacoides	2
Limonium vulgare	40
Puccinellia maritima	2
Salicornia ramosissima	2

Location - unit number Unit31	Grid reference TM3736244143	Region East Suffolk	Author Toby Abrehart
Carex extensa patch - new (85) plants minimum here. Juncus gerardii area protected from the full effect of the tides. Upper saltmarsh as before in unit 32 and 33. Numerous small plants and several large old clumps. 		Date 31/12/2013	Quadrat Number 366
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm	
		Layers Cover 100%	
		Geology: muds over shingle	

Species list

Plant Name	Plant Density
Carex extensa	10
Festuca rubra	2
Juncus gerardii	75
Limonium vulgare	2
Plantago maritima	15

Location - unit number	Grid reference	Region	Author
Unit31	TM3736244146	East Suffolk	Toby Abrehart
Area of lichen grassland on north running spur. <i>Vicia lutea</i> abundant through this area of grassland. <i>Limonium humile</i> at TM3726844084 		Date	Quadrat Number
		31/12/2013	367
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
20cm, 10mm			
Layers Cover			
30%70%			
Geology:			
shingle			

Species list

Plant Name	Plant Density
Armeria maritima	15
Atriplex portulacoides	5
Catapodium marinum	2
Cerastium diffusum	4
Cerastium semidecand	1
Cladonia furcata	2
Cladonia rangiformis	0
Erophila verna	2

Festuca rubra	2
Plantago coronopus	10
Sagina apetala	2
Sedum acre	2
Silene uniflora	10
Vicia hirsuta	1
Vicia lutea	30

[illegible]

Species list

Location - unit number Unit31	Grid reference TM3729243966	Region East Suffolk	Author Toby Abrehart
Upper sea wall MG1		Date 09/07/2013	Quadrat Number 369
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm	
		Layers Cover 100%	
		Geology: clay sea wall	



Species list

Plant Name	Plant Density
Arrhenatherum elatius	70
Chaerophyllum temul	1
Elytrigia atherica	20
Galium aparine	2
Smyrnum olusatrum	2
Tragopogon pratensis	2

Location - unit number Unit31	Grid reference TM3673144023	Region East Suffolk	Author Toby Abrehart
Area to south of road to shingle street. Upper saltmarsh rabbit grazed as is evident. Encroaching <i>Phragmites australis</i> across this site. Dominated with <i>Juncus gerardii</i> and <i>Plantago maritima</i>. With abundant <i>Carex extensa</i> 		Date 31/12/2013	Quadrat Number 370
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	10
<i>Carex extensa</i>	5
<i>Glaux maritima</i>	10
<i>Juncus gerardii</i>	30
<i>Limonium humile</i>	3
<i>Limonium vulgare</i>	2
<i>Plantago maritima</i>	45
<i>Spergularia media</i>	2

Location - unit number Unit31	Grid reference TM3675444056	Region East Suffolk	Author Toby Abrehart
Above upper saltmarsh area rises and dries to west. Pot ans and desc caespitosa dominant with Elytrigia atherica. Nearby Bolboscheonus maritima, Carex otrubae, Lepidium latifolium 		Date 31/12/2013	Quadrat Number 371
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 65cm	
		Layers Cover 100%	
		Geology: muds and clay	

Species list

Plant Name	Plant Density
Agrostis stolonifera	5
Elytrigia atherica	40
Festuca arundinacea	10
Festuca pratensis	10
Galium aparine	2
Potentilla anserina	30
Rumex crispus	2

Location - unit number Unit31	Grid reference TM3731844243	Region East Suffolk	Author Toby Abrehart
Typical area of saltmarsh in this southern section of the unit. 		Date 09/07/2013	Quadrat Number 372
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	45
Limonium vulgare	15
Puccinellia distans	3
Puccinellia maritima	25
Salicornia europaea	3
Sarcocornia perennis	15
Spartina maritima	18
Spergularia media	4

Location - unit number	Grid reference	Region	Author
Unit31	TM3733544275	East Suffolk	Toby Abrehart
Impounded sea wall, built with concrete blocks. Dominted with Seriphidium maritimum and Elytrigia atherica. Limonium humile TM3767544671		Date	Quadrat Number
		31/12/2013	373
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,25cm10mm	
		Layers Cover	
		25%60%20%	
		Geology:	
		concrete	

Species list

Plant Name	Plant Density
Atriplex portulacoides	3
Cerastium fontanum	5
Dactylis glomerata	4
Elytrigia atherica	15
Festuca rubra	3
Geranium dissectum	2
Hypnum cupressiform	15
Picris echioides	2

Plantago lanceolata	3
Seriphidium maritimu	50
Sonchus oleraceus	2
Torilis nodosa	5
Vicia sativa	4

Location - unit number	Grid reference	Region	Author
Unit31	TM3766044663	East Suffolk	Toby Abrehart
Lichen rich shingle grassland. The dominant community through this section		Date	Quadrat Number
		31/12/2013	374
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		35cm,10cm,10mm	
		Layers Cover	
		25%50%40%	
		Geology:	
		shingle	

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	10
<i>Cerastium diffusum</i>	5
<i>Cladonia furcata</i>	10
<i>Cladonia portentosa</i>	30
<i>Festuca rubra</i>	70
<i>Plantago coronopus</i>	5
<i>Silene uniflora</i>	10
<i>Trifolium arvense</i>	10

[illegible]

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	15
<i>Geranium robertianum</i>	6
<i>Rumex acetosella</i>	3
<i>Rumex crispus</i> subsp 1	3
<i>Silene uniflora</i>	2
<i>Vicia lutea</i>	4

Location - unit number Unit 25	Grid reference TM4242448396	Region East Suffolk	Author Toby Abrehart
Narrow saltmarsh zone. A dominant sward of <i>Puccinellia maritima</i> with scattered <i>Spartina maritima</i>. This habitat leads from an area of muds with some <i>Salicornia</i>. At the sea wall edge there is a band of <i>Atriplex portulacoides</i> and <i>Seriphidium maritimum</i>. Above this the <i>Elytrigia atherica</i> grasslands start leading into the <i>Arrhenatherum elatius</i> community 		Date 31/12/2013	Quadrat Number 384
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds over gravel	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	3
<i>Limonium vulgare</i>	10
<i>Puccinellia maritima</i>	65
<i>Salicornia ramosissima</i>	20
<i>Spartina maritima</i>	2
<i>Spergularia media</i>	3
<i>Suaeda maritima</i>	2

Location - unit number	Grid reference	Region	Author
Unit 25	TM4236948385	East Suffolk	Toby Abrehart
Lower sea wall. A dominant community of <i>Elytrigia atherica</i> for one metre above high tide line. <i>Bupleurum tenuissimum</i> is frequent at a line where the <i>Elytrigia atherica</i> dominance stops and the <i>Arrhenatherum elatius</i> community starts. It is abundant in this zone. <i>Spartina maritima</i> at: TM4229248396 Bup ten T tm4229248402< tm4225448458		Date	Quadrat Number
		31/12/2013	385
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm, 15cm	
		Layers Cover	
		60% 40%	
		Geology:	
		Clay impounded sea wall	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	10
<i>Bupleurum tenuissimu</i>	2
<i>Cerastium fontanum</i>	2
<i>Elytrigia atherica</i>	80
<i>Festuca rubra</i>	2
<i>Parapholis strigosa</i>	2
<i>Phragmites australis</i>	1
<i>Seriphidium maritimu</i>	15

<i>Sonchus oleraceus</i>	2
<i>Torilis nodosa</i>	2
<i>Vicia sativa</i>	2

Location - unit number Unit 25	Grid reference TM4224848464	Region East Suffolk	Author Toby Abrehart
Saltmarsh with spartina maritima. This community is consistent through this zone close to the sea wall.		Date 15/07/2013	Quadrat Number 386
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: saltmarsh muds over shingle	
			

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	10
Festuca rubra	10
Limonium vulgare	20
Parapholis strigosa	3
Puccinellia maritima	40
Salicornia ramosissima	10
Spartina maritima	5

Spergularia media	3
Triglochin maritimum	10

Location - unit number Unit 25	Grid reference TM4221648486	Region East Suffolk	Author Toby Abrehart
Area of low saltmarsh in between creeks. Dominated with Limonium. Small areas of Puccinellia and adjacent to higher land dominated with Armeria maritima 		Date 31/12/2013	Quadrat Number 387
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds over shingle	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	10
Limonium vulgare	70
Puccinellia maritima	10
Salicornia ramosissima	20

Location - unit number Unit 25	Grid reference TM4220348450	Region East Suffolk	Author Toby Abrehart
Saltmarsh, dominated with <i>Armeria maritima</i> and <i>Limonium vulgaris</i>. This community is dominant through the middle section of this saltmarsh section, before the <i>Festuca</i> saltmarsh community starts. Occasional <i>Puccinellia distans</i> in small clumps nearby. 		Date 31/12/2013	Quadrat Number 388
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds over shingle	

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	30
<i>Atriplex portulacoides</i>	10
<i>Limonium vulgare</i>	50
<i>Puccinellia maritima</i>	5
<i>Sarcocornia perennis</i>	20
<i>Spergularia media</i>	3

Location - unit number Unit 25	Grid reference TM4219448412	Region East Suffolk	Author Toby Abrehart
Saltmarsh pan. Drying with a margin of <i>Spartina maritima</i>		Date 15/07/2013	Quadrat Number 389
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm,0mm	
		Layers Cover 50%50%	
		Geology: saltmarsh muds	
			

Species list

Plant Name	Plant Density
Bare mud	50
<i>Puccinellia maritima</i>	5
<i>Salicornia europaea</i>	50
<i>Sarcocornia perennis</i>	4
<i>Spartina maritima</i>	10

Location - unit number Unit 25	Grid reference TM4218448394	Region East Suffolk	Author Toby Abrehart
Saltmarsh edge. With a 18 inch drop to the saltmarsh muds. The outer pans here 50% hold salicornia beds. The outer saltmarsh muds by the channel have very few scattered salicornia plants. This Festuca outer margin extends all along this section of this saltmarsh. Grass vetchling TM4217348505 Bup ten as above, Limonium humile TM4217048501 		Date 31/12/2013	Quadrat Number 390
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm, 15cm	
		Layers Cover 30% 70%	
		Geology: saltmarsh muds	

Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	10
Festuca rubra	70
Limonium vulgare	5
Plantago maritima	2
Seriphidium maritimu	20

Location - unit number	Grid reference	Region	Author
Unit 25	TM4215348489	East Suffolk	Toby Abrehart
Top of the sea wall. Footpath of flattened vegetation. Above the Bupleurum tenuissimum and Grass vetchling zone. Bupleurum tenuissimum: TM4200048459 Juncus gerardii TM4193548463 and Lathyrus nissolia and Bupleurum tenuissimum 		Date	Quadrat Number
		31/12/2013	391
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm	
		Layers Cover	
		100%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	70
Cirsium vulgare	2
Dactylis glomerata	15
Elytrigia atherica	3
Elytrigia repens	2
Festuca rubra	10
Hordeum secalinum	4
Lathyrus nissolia	2

Medicago minima	2
Plantago lanceolata	2
Torilis nodosa	2
Tragopogon pratensis	2
Trifolium repens	2
Vicia sativa	2

Location - unit number Unit 25	Grid reference TM4184248472	Region East Suffolk	Author Toby Abrehart
Saltmarsh. A uniform community scattered along this section of the unit continues through to the west. On sea wall Bupleurum tenuissimum. Lathyrus nissola TM4171748502		Date 31/12/2013	Quadrat Number 392
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm,0mm	
		Layers Cover 60%40%	
		Geology: saltmarsh muds	
			

Species list

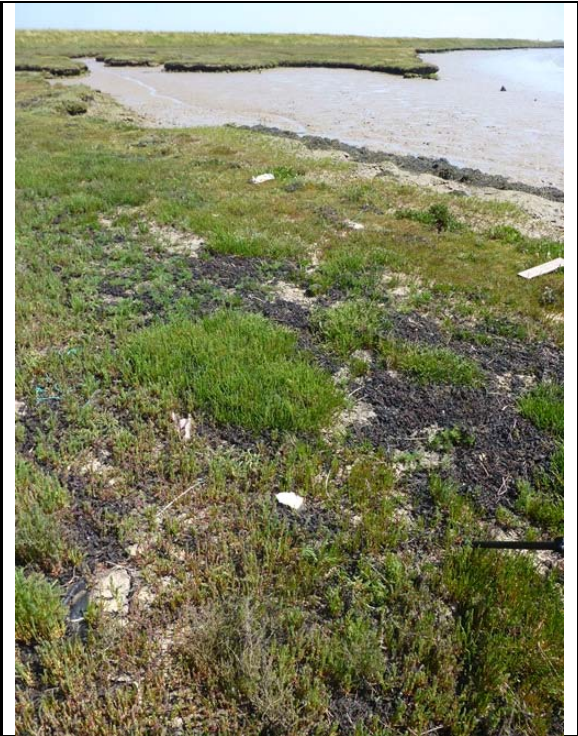
Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	10
Bare mud	15
Limonium vulgare	10
Puccinellia maritima	60
Salicornia europaea	0
Sarcocornia perennis	20
Spartina maritima	5

Spergularia media	2
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Location - unit number Unit25	Grid reference TM4167848482	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh edge adjacent to the channel. This outer strip is dominated with the <i>Festuca rubra</i> grasslands. The outer marsh is grazed by Canada Geese. The inner marshes are grazed by cattle, with abundant poaching close to the sea wall. Caterpillar nest and skins on <i>Aster tripolium</i> Coch anglica TM4160048491 lath niss TM4160248482		Date 31/12/2013	Quadrat Number 393
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: Saltmarsh muds	
			

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	2
<i>Atriplex portulacoides</i>	3
<i>Festuca rubra</i>	80
<i>Limonium vulgare</i>	5
<i>Plantago maritima</i>	10

Location - unit number	Grid reference	Region	Author
Unit 25	TM4159448461	East Suffolk	Toby Abrehart
Narrow strip of saltmarsh, being eroded. Very outer margin, <i>Spartina maritima</i> and ann salic. Outer margin of <i>Puccinellia maritima</i> and <i>Atriplex portulacoides</i>. This quadrat was dominated with <i>Suaeda maritima</i>. <i>Bupleurum tenuissimum</i> TM4159248462		Date	Quadrat Number
		31/12/2013	394
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		10cm, 0mm	
		Layers Cover	
		70% 30%	
		Geology:	
		saltmarsh muds	

Species list

Plant Name	Plant Density
<i>Fucus serratus</i>	20
<i>Salicornia dolichostachya</i>	30
<i>Suaeda maritima</i>	50

Plant Name	Plant Density
Callitriche obtusangul	1
Callitriche stagnalis	5
Ceratophyllum demer	10
Potamogeton pectinat	30
Utricularia vulgaris	5
Zannichellia palustris	5

Location - unit number Unit 25	Grid reference TM4137648237	Region East Suffolk	Author Toby Abrehart
Sea wall. Heavily grazed by geese and sheep. It is a very short turf grassland. Medicago polymorpha TM4120347838, Lathyrus nissola TM4094347395 		Date 31/12/2013	Quadrat Number 396
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10mm	
		Layers Cover 100%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Cirsium arvense	2
Cirsium vulgare	2
Cynosurus cristatus	50
Elytrigia atherica	10
Hypochaeris glabra	2
Lolium perenne	30
Medicago minima	2
Plantago lanceolata	30

Location - unit number Unit 25	Grid reference TM4081747251	Region East Suffolk	Author Toby Abrehart
Saltmarsh at western end of unit. Close to the sea wall and the channel running there. <i>Atriplex portulacoides</i> dominated this community and is dominant around the lower edges of the creeks and estuary, becoming more <i>Limonium vulgare</i> dominated as the land gets higher. The Sea wall grasslands here are the same as in the other sections of this unit with <i>Elytrigia atherica</i> for a metre above the high tide line becoming <i>Arrhenaterum elatius</i> dominant above continuing to the top of the slope. 		Date 31/12/2013	Quadrat Number 397
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,10cm,0mm	
		Layers Cover 40%40%20%	
		Geology: salt m,arsh muds	

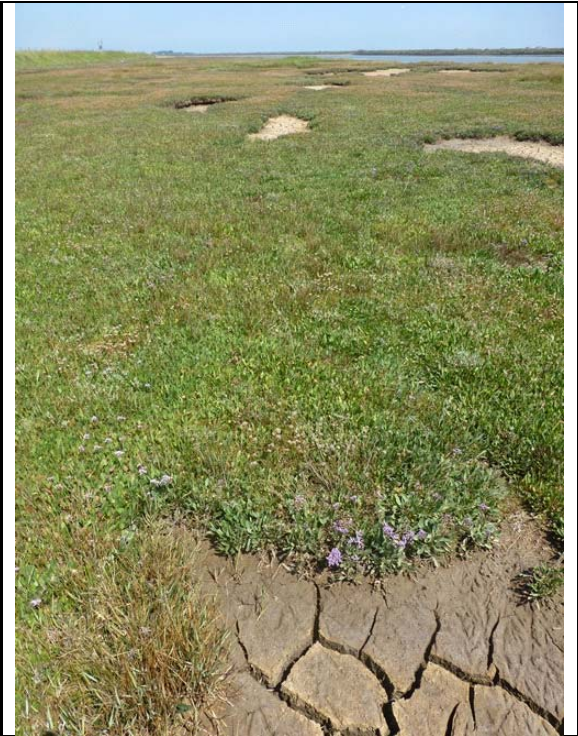
Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	40
<i>Limonium vulgare</i>	10
<i>Puccinellia maritima</i>	20
<i>Salicornia ramosissima</i>	10
<i>Spergularia media</i>	2

Location - unit number Unit 25	Grid reference TM4083047209	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh. A strip of Festuca dominated grassland with the inner border dominated with Atriplex portulacoides and Limonium vulgare. This then becomes Limonium and Armeria dominated towards the centre of the marsh. Atriplex 20%, Armeria 50%, limonium 20%, Festuca 20% In one or two lower parts of the saltmarsh are patches of Spartina maritima. 		Date 31/12/2013	Quadrat Number 398
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	10
Festuca rubra	65
Limonium humile	4
Plantago maritima	5
Seriphidium maritimu	10

Location - unit number Unit 25	Grid reference TM4077147172	Region East Suffolk	Author Toby Abrehart
Middle of the saltmarsh. Limonium dominated community. Coch ang TM4071847137 Otter run at TM4057147099 		Date 31/12/2013	Quadrat Number 399
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	

Species list

Plant Name	Plant Density
Armeria maritima	20
Aster tripolium	3
Atriplex portulacoides	5
Limonium vulgare	50
Plantago maritima	2
Puccinellia distans	2
Salicornia dolichostachya	2
Salicornia ramosissima	10

Spartina maritima	5
Spergularia media	4

Location - unit number Unit 25	Grid reference TM4041847191	Region East Suffolk	Author Toby Abrehart
Saltmarsh near to the sea wall. Approx 8m wide for at least 1km. <i>Spartina anglica</i> and <i>Limonium vulgare</i> dominated		Date 31/12/2013	Quadrat Number 400
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	
			

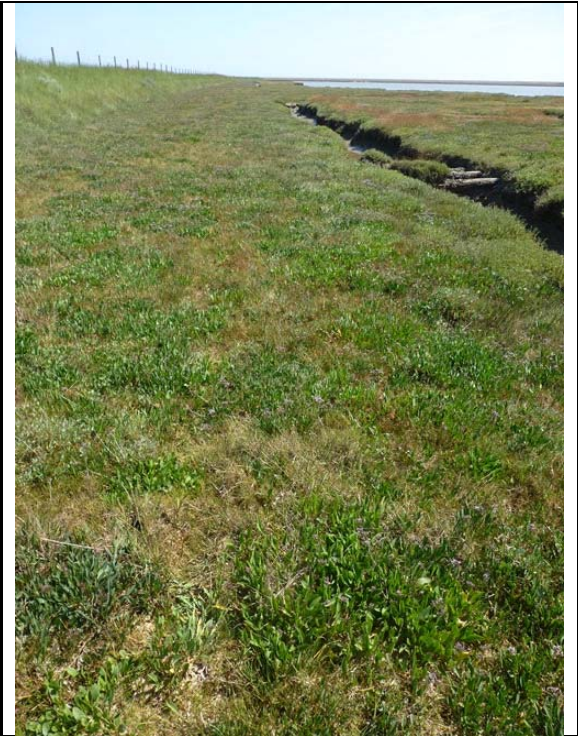
Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	10
<i>Atriplex portulacoides</i>	5
<i>Limonium vulgare</i>	30
<i>Puccinellia maritima</i>	15
<i>Salicornia ramosissima</i>	20
<i>Spartina maritima</i>	25

Location - unit number Unit 25	Grid reference TM4040847205	Region East Suffolk	Author Toby Abrehart
Sea Wall vegetation. <i>Spartina maritima</i> TM4033547222 		Date 31/12/2013	Quadrat Number 401
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm, 40cm	
		Layers Cover 50%50%	
		Geology: Clay sea wall	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	10
<i>Elytrigia atherica</i>	60
<i>Geranium dissectum</i>	2
<i>Seriphidium maritimu</i>	30
<i>Sonchus oleraceus</i>	3
<i>Torilis nodosa</i>	4
<i>Vicia sativa</i>	3

Location - unit number Unit 28	Grid reference TM4023347296	Region East Suffolk	Author Toby Abrehart
Saltmarsh near to the sea wall to north of narrow channel. The communities dominated with <i>Limonium vulgare</i> , <i>Atriplex portulacoides</i> and <i>Spartina maritima</i>		Date 31/12/2013	Quadrat Number 402
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: Saltmarsh muds	
			

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	15
<i>Limonium vulgare</i>	40
<i>Puccinellia maritima</i>	10
<i>Salicornia ramosissima</i>	15
<i>Spartina maritima</i>	5
<i>Spergularia media</i>	2
<i>Triglochin maritimum</i>	10

Location - unit number Unit 28	Grid reference TM4005947296	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh edge, near to main Butley Channel. Atriplex dominated. Where drier Festuca dominated		Date 31/12/2013	Quadrat Number 403
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: Saltmarsh muds	
			

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	80
Cochlearia anglica	2
Puccinellia distans	10
Puccinellia maritima	2

Location - unit number Unit28	Grid reference TM3993847301	Region East Suffolk	Author Toby Abrehart
Festuca dominated section of outer salt marsh		Date 15/07/2013	Quadrat Number 404
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: Saltmarsh muds	

Species list

A photograph showing a grassy field with a fence line and a wooden post in the foreground. The grass is tall and green, with some yellow wildflowers. The fence line runs across the middle of the image, and a single wooden post is visible on the left. The background is a clear blue sky.

Plant Name	Plant Density
<i>Armeria maritima</i>	5
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	20
<i>Limonium vulgare</i>	35
<i>Puccinellia maritima</i>	20
<i>Salicornia europaea</i>	4
<i>Salicornia ramosissima</i>	10
<i>Spartina maritima</i>	5

Spargularia media	2
Triglochin maritimum	5

Location - unit number	Grid reference	Region	Author
Unit 28	TM3987247332	East Suffolk	Toby Abrehart
Sea wall - lower. Elytrigia atherica dominated with some disturbed areas near to the high tide line. Possible erosion. Seriphidium maritimum lowdown on this area of sea wall in comparison to unit 25. Limonium humile TM3977447337. J. gerardii TM3967747349 Only three small clumps along here no more than 1m x 20cm. 		Date	Quadrat Number
		31/12/2013	406
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm	
		Layers Cover	
		100%	
		Geology:	
		clay sea wall	

Species list

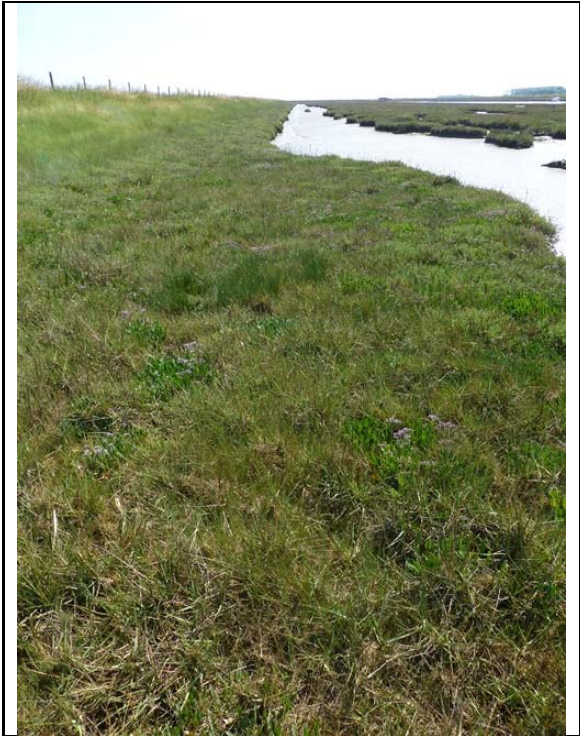
Plant Name	Plant Density
Agrostis stolonifera	5
Bromus hordeaceus	3
Elytrigia atherica	70
Festuca rubra	10
Hypochaeris radicata	2
Lotus tenuis	2
Parapholis strigosa	5
Plantago lanceolata	2

Seriphidium maritimu	3
Sonchus oleraceus	2
Torilis nodosa	2
Tripleurospermum ma	2

Location - unit number Unit 28	Grid reference TM3954947353	Region East Suffolk	Author Toby Abrehart
Saltmarsh near to the sea wall. Dominated with <i>Puccinellia maritima</i> and <i>Atriplex portulacoides</i> . <i>Limonium humile</i> TM3935647504, <i>Spartina maritima</i> TM3934247541 		Date 31/12/2013	Quadrat Number 407
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	

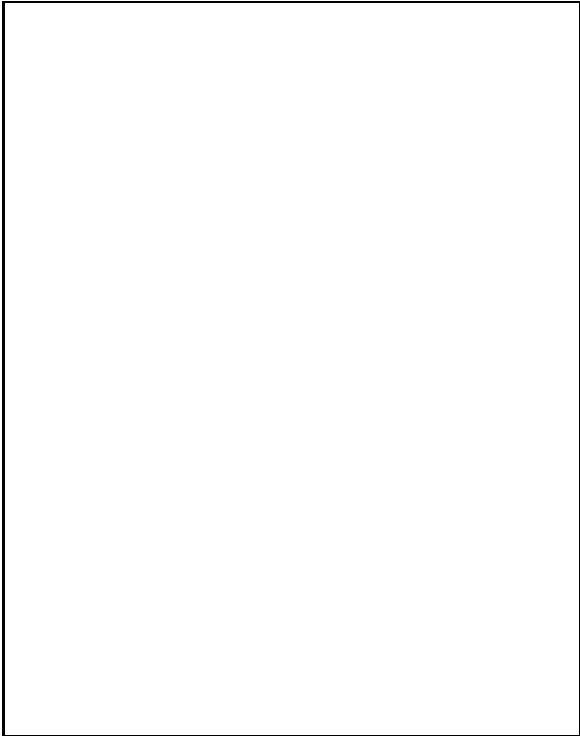
Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	30
<i>Inula crithmoides</i>	1
<i>Limonium vulgare</i>	10
<i>Plantago maritima</i>	2
<i>Puccinellia maritima</i>	35
<i>Salicornia ramosissima</i>	10
<i>Spergularia media</i>	2

Location - unit number Unit28	Grid reference TM3932747609	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh community near to sea wall. This community is the same across the saltmarsh the other side of the flooding channel. <i>Spartina maritima</i> is a constant feature in this section of the saltmarsh. Occupying about 5% of the veg 		Date 31/12/2013	Quadrat Number 408
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	

Species list

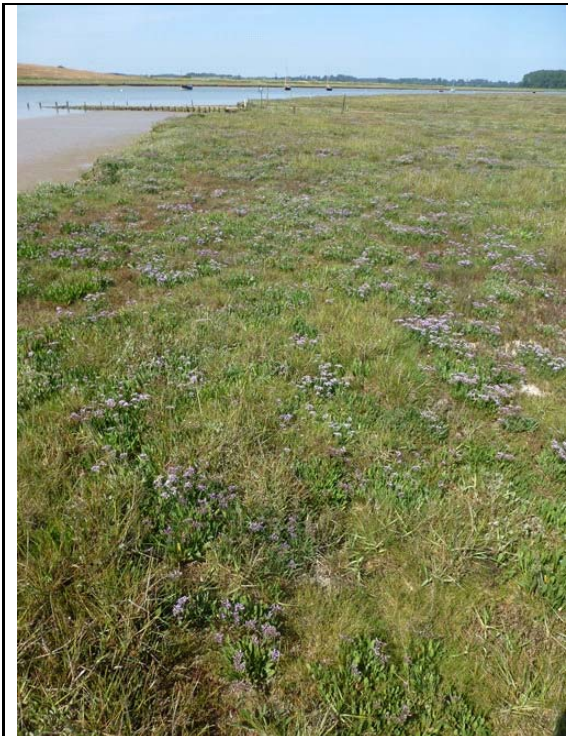
Plant Name	Plant Density
<i>Atriplex portulacoides</i>	20
<i>Festuca rubra</i>	1
<i>Limonium vulgare</i>	25
<i>Puccinellia maritima</i>	20
<i>Salicornia ramosissima</i>	10
<i>Spartina maritima</i>	5
<i>Spergularia media</i>	2
<i>Triglochin maritimum</i>	10

Location - unit number	Grid reference	Region	Author
Unit 28	TM3938848047	East Suffolk	Toby Abrehart
More northern section of this saltmarsh fringe. Becoming more dominated with <i>Spartina anglica</i> the further inland one goes.. Here there is a much more natural transition zone. <i>Atriplex portulacoides</i> either side of this community. The outer marshes here hold the same species as in this quadrat though with a greater presence of <i>Festuca rubra</i> 		Date 31/12/2013	Quadrat Number 409
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	

Species list

Plant Name	Plant Density
<i>Limonium vulgare</i>	10
<i>Puccinellia maritima</i>	35
<i>Spartina maritima</i>	50
<i>Triglochin maritimum</i>	4

Location - unit number	Grid reference	Region	Author
Unit28	TM3930648147	East Suffolk	Toby Abrehart
Lower saltmarsh near to ferry crossing. Dominated with Salicornia, Limonium vulgare and Spartina anglica		Date	Quadrat Number
		31/12/2013	410
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		8cm,4cm,0mm	
		Layers Cover	
		30%40%20%	
		Geology:	
		saltmarsh muds	



Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Limonium vulgare	20
Puccinellia maritima	30
Salicornia ramosissima	10
Sarcocornia perennis	10
Spartina maritima	3
Suaeda maritima	5

Location - unit number Unit28	Grid reference TM3940948326	Region East Suffolk	Author Toby Abrehart
Saltmarsh north of the Butley Ferry. Still very scattered Jucus gerardii patches ever 50-100m and still only 1mx20cm. Limonium humile TM3946548388. Occasional Glaux maritima 		Date 31/12/2013	Quadrat Number 411
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm	
		Layers Cover 100%	
		Geology: saltmarsh muds	

Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Limonium vulgare	20
Puccinellia maritima	35
Spartina maritima	35

A photograph of a grassy field with a small, circular, sandy area in the center, possibly a sand trap or a small pond. The field is surrounded by a dense line of trees in the background under a clear blue sky.

Plant Name	Plant Density
<i>Armeria maritima</i>	10
<i>Aster tripolium</i>	3
<i>Atriplex portulacoides</i>	10
<i>Juncus maritimus</i>	30
<i>Limonium vulgare</i>	20
<i>Puccinellia distans</i>	20
<i>Triglochin maritimum</i>	15

A photograph of a grassy field with a body of water in the background. The field is covered in green grass and small white flowers. A line of trees and a body of water are visible in the distance under a clear sky.

Plant Name	Plant Density
<i>Armeria maritima</i>	60
<i>Atriplex portulacoides</i>	5
<i>Limonium vulgare</i>	20
<i>Puccinellia distans</i>	10
<i>Salicornia ramosissima</i>	3
<i>Spergularia media</i>	2

Location - unit number Unit 28	Grid reference TM3973846819	Region East Suffolk	Author Toby Abrehart
Sea wall. Grasslands Elytrigia atherica dominated.		Date 08/08/2013	Quadrat Number 450
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60CM,25CM	
		Layers Cover 70%30%	
		Geology: clay sea wall	
			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	15
Cerastium fontanum	2
Draba incana	5
Elytrigia atherica	50
Festuca rubra	2
Hordeum secalinum	5
Picris echioides	1
Taraxicum officinalis	2

Tragopogon pratensis	3
Vicia sativa	1

Location - unit number Unit 28	Grid reference TM3974746833	Region East Suffolk	Author Toby Abrehart
Upper Saltmarsh edge, Elytrigia atherica with Seriphidium maritimum and Atriplex portulacoides 		Date 18/12/2013	Quadrat Number 451
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm, 20cm	
		Layers Cover 40%, 60%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Elytrigia atherica	70
Seriphidium maritimu	20

Location - unit number Unit28	Grid reference TM3975146832	Region East Suffolk	Author Toby Abrehart
Annual saltmarsh with some <i>Spartina anglica</i> , limited flora. Above this quad there are small amounts of <i>Puccinellia maritima</i> , leading into <i>Atriplex portulacaoides</i> and then the <i>Elytrigia atherica</i> grasslands and sea wall		Date 31/12/2013	Quadrat Number 452
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,5cm, bare mud	
		Layers Cover 8%40%52%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Puccinellia maritima</i>	1
<i>Salicornia</i> agg	40
<i>Spartina anglica</i>	8
<i>Suaeda maritima</i>	2

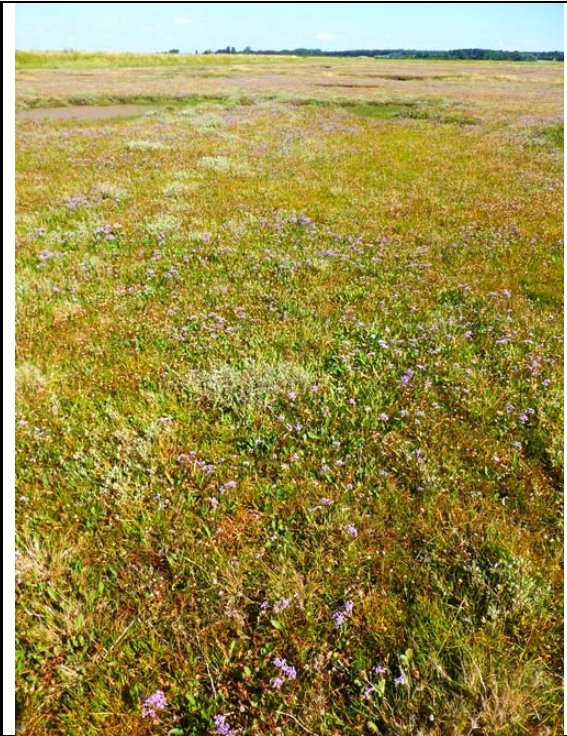
Location - unit number Unit28	Grid reference TM3978646891	Region East Suffolk	Author Toby Abrehart
Saltmarsh edge, cliff 3 feet to bare mud, Festuca dominated grasland at higher land edge. Leads into the middle saltmarsh communities towards the land 		Date 08/08/2013	Quadrat Number 453
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,20cm	
		Layers Cover 10%905	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Festuca rubra	80
Inula crithmoides	5
Limonium vulgare	5
Spergularia marina	2
Triglochin maritimum	5

A photograph of a coastal landscape. In the foreground, there is a grassy dune area with tall, dry grasses and some green shrubs. A small, dark, rocky outcrop is visible in the middle ground. To the right, a body of water (likely a bay or estuary) extends to the horizon. In the distance, a shoreline with trees and buildings is visible under a clear sky.

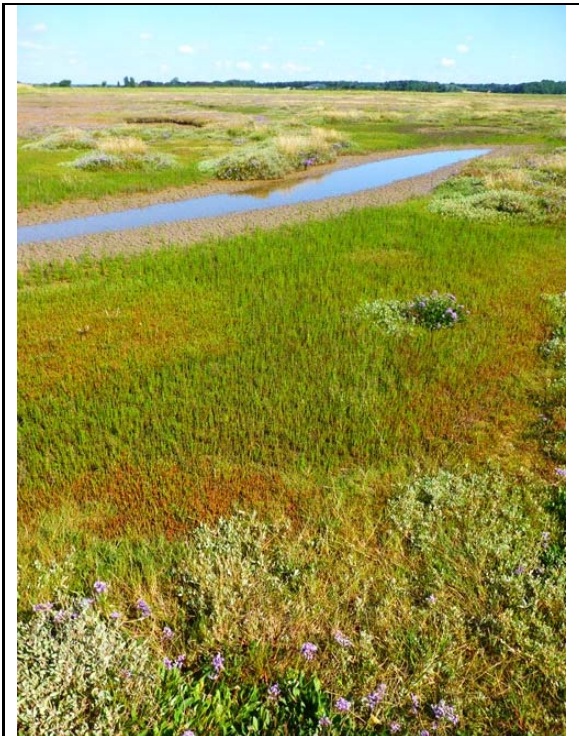
Plant Name	Plant Density
Armeria maritima	50
Aster tripolium	5
Atriplex portulacoides	10
Limonium vulgare	20
Plantago maritima	5
Puccinellia maritima	5
Salicornia agg	5

Location - unit number Unit 28	Grid reference TM3978646915	Region East Suffolk	Author Toby Abrehart
Saltmarsh Pans, vegetated with Salicornia, 40% with vegetation. 		Date 31/12/2013	Quadrat Number 455
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	60
Salicornia agg	40

Location - unit number	Grid reference	Region	Author
Unit28	TM3983646985	East Suffolk	Toby Abrehart
Saltmarsh pan with small islands of <i>Sarcocornia perennis</i> , <i>Limonium vulgare</i> , good grading into bare mud community		Date	Quadrat Number
		31/12/2013	456
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		10cm, bare mud	
		Layers Cover	
		60%40%	
		Geology:	
		saltmarsh	



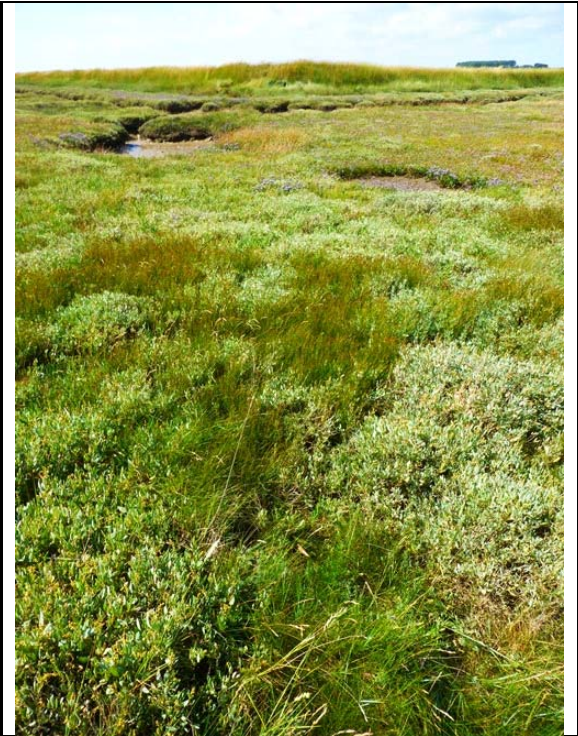
Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex portulacoides</i>	5
<i>Limonium vulgare</i>	5
<i>Puccinellia maritima</i>	10
<i>Salicornia europaea</i>	30
<i>Salicornia ramosissima</i>	5

Location - unit number Unit28	Grid reference TM3983447117	Region East Suffolk	Author Toby Abrehart
Middle saltmarsh, where land lower Armeria maritima disappears and Limonium vulgare is more dominant 		Date 31/12/2013	Quadrat Number 457
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,5cm	
		Layers Cover 40%60%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	30
Aster tripolium	3
Atriplex portulacoides	15
Limonium vulgare	40
Puccinellia distans	5
Salicornia ramosissima	5

Location - unit number Unit 28	Grid reference TM3979747178	Region East Suffolk	Author Toby Abrehart
Out saltmarsh dominated with Elytrigia atherica with Atriplex portulacoides and Juncus gerardii 		Date 31/12/2013	Quadrat Number 458
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,25cm	
		Layers Cover 20%80%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	40
Elytrigia atherica	15
Festuca rubra	5
Juncus gerardii	20
Puccinellia maritima	4
Seriphidium maritimu	4

Location - unit number Unit28	Grid reference TM3975347150	Region East Suffolk	Author Toby Abrehart
Sea wall, dominated with Elytrigia atherica. Above the wide strip of Atriplex portulacoides adjacent to the channel. 		Date 31/12/2013	Quadrat Number 459
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,30cm	
		Layers Cover 70%30%	
		Geology: clay sea wall	

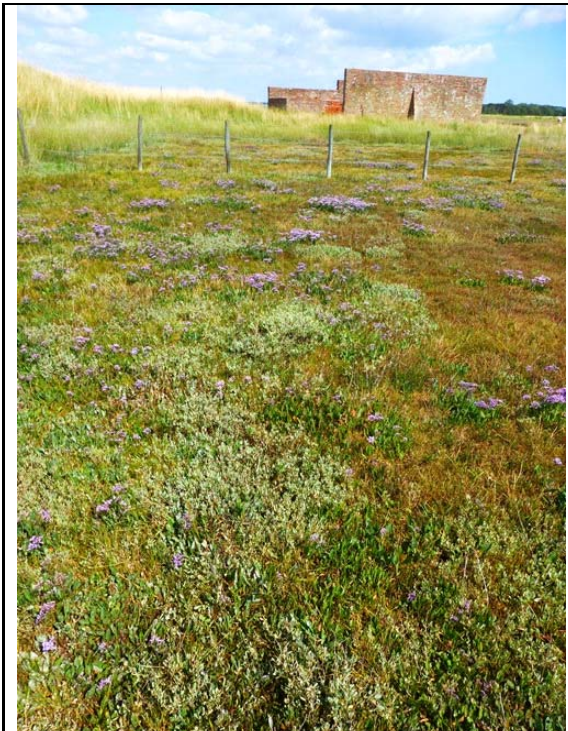
Species list

Plant Name	Plant Density
Arrhenatherum elatius	4
Cirsium vulgare	3
Dactylis glomerata	2
Elytrigia atherica	80
Rumex crispus	1
Seriphidium maritimu	5

Location - unit number Unit 28	Grid reference TM3959947175	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh. Before the cliff of the sea wall starts. Dominated with atriplex portulacoides. Bupleurum tenuissimum TM3948247186 all along this side of the sea wall in the Elytrigia atherica slightly disturbed. Recently mown. 		Date 31/12/2013	Quadrat Number 460
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 15%85%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	45
Limonium vulgare	30
Puccinellia maritima	5
Salicornia ramosissima	3
Spartina anglica	5
Spergularia media	2

Location - unit number	Grid reference	Region	Author
Unit28	TM3919947429	East Suffolk	Toby Abrehart
Lower saltmarsh, with an area of lower open mud to the south of the mooring. 		Date	Quadrat Number
		08/08/2013	461
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
Layers mean height			
10cm,5cm			
Layers Cover			
50%50%			
Geology:			
saltmarsh			

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	50
Limonium vulgare	30
Puccinellia maritima	10
Salicornia ramosissima	4
Spergularia media	1
Triglochin maritimum	4

Location - unit number Unit28	Grid reference TM3919047431	Region East Suffolk	Author Toby Abrehart
Sea wall grasslands. Very narrow transition zone from saltmarsh to Elytrigia grasslands. 		Date 31/12/2013	Quadrat Number 462
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,40cm	
		Layers Cover 80%20%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	15
Dactylis glomerata	3
Elytrigia atherica	80
Lathyrus nissolia	1
Plantago lanceolata	2
Potentilla reptans	2

Location - unit number Unit28	Grid reference TM3919947807	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh edge adjacent to the estuary. Raised edge all along this section of the river. 		Date 08/08/2013	Quadrat Number 463
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm10cm	
		Layers Cover 20%80%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Atriplex portulacoides	30
Festuca rubra	30
Plantago maritima	10
puccinellia distans	4
Seriphidium maritimu	15
Spergularia media	2
Triglochin maritimum	10

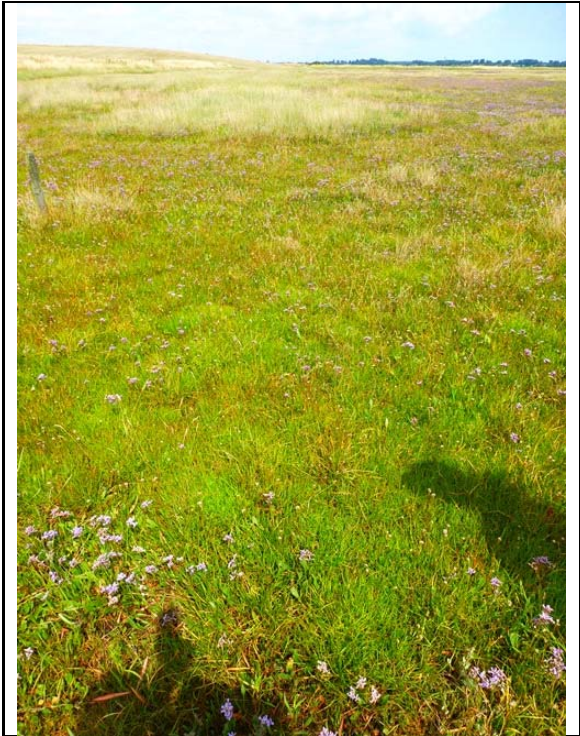
A wide-angle photograph of a coastal or estuarine landscape. The foreground and middle ground are filled with a dense carpet of low-growing plants, many of which have small, light purple flowers. The vegetation is interspersed with patches of taller, yellowish-brown grasses. In the distance, a calm body of water stretches across the horizon under a pale, clear sky. A thin strip of land with more greenery is visible on the far side of the water. The overall scene is bright and open.

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	40
Limonium vulgare	30
Puccinellia distans	10
Salicornia ramosissima	10

Location - unit number Unit 28	Grid reference TM3921048230	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh grasslands. Some Aster triploium and Limonium vulgare nearby 		Date 31/12/2013	Quadrat Number 465
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm, 30cm	
		Layers Cover 30% 70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	20
Elytrigia atherica	40
Festuca rubra	20
Seriphidium maritimu	20

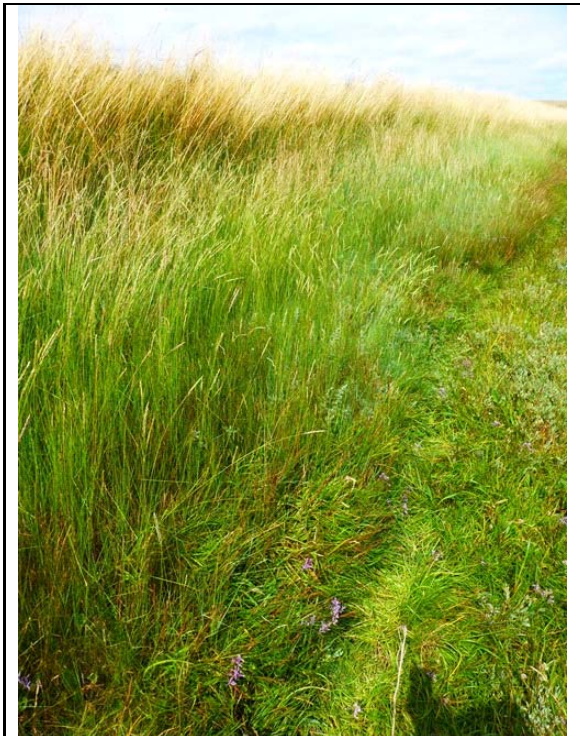
Location - unit number Unit28	Grid reference TM3919848233	Region East Suffolk	Author Toby Abrehart
Middle saltmarsh insided outer edge by river. Limonium vulgare dominated with abundant Armeria maritima		Date 31/12/2013	Quadrat Number 466
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,10cm	
		Layers Cover 20%80%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Armeria maritima	80
Aster tripolium	2
Atriplex portulacoides	2
Festuca rubra	2
Limonium vulgare	10
Plantago maritima	2
Puccinellia maritima	2
Salicornia europaea	2

Spergularia media	1
Triglochin maritimum	2

Location - unit number	Grid reference	Region	Author
Unit28	TM3917648255	East Suffolk	Toby Abrehart
Base of the sea wall. Frequent Juncus gerardii and Elytrigia atherica and some Glaux maritima		Date	Quadrat Number
		08/08/2013	467
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1m,40cm,20cm	
		Layers Cover	
		65%25%10%	
		Geology:	
		clay sea wall	



Species list

Plant Name	Plant Density
<i>Elytrigia atherica</i>	60
<i>Festuca rubra</i>	2
<i>Glaux maritima</i>	10
<i>Juncus gerardii</i>	30
<i>Plantago maritima</i>	10
<i>Seriphidium maritimu</i>	10
<i>Triglochin maritimum</i>	1

Location - unit number Unit28	Grid reference TM3957148857	Region East Suffolk	Author Toby Abrehart
End of unit 28. more Atriplex portulacoides and Spartina anglica based.		Date 31/12/2013	Quadrat Number 468
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 25cm,10cm	
		Layers Cover 60%40%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	50
Limonium vulgare	20
Plantago maritima	2
Puccinellia maritima	10
Spartina anglica	10
Spergularia media	1
Suaeda maritima	2

Spergularia media	2
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Location - unit number Unit 29	Grid reference TM3955748900	Region East Suffolk	Author Toby Abrehart
Start of unit 29. Upper saltmarsh . Salicornia dominated sward with occasional Limonium vulgare and Atriplex portulacoides throughout. Beyond this quadrat the vegetation become dominated with Aster portulacoides at the base of the sea wall. 		Date 31/12/2013	Quadrat Number 472
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,10cm	
		Layers Cover 15%85%	
		Geology: saltmarsh	

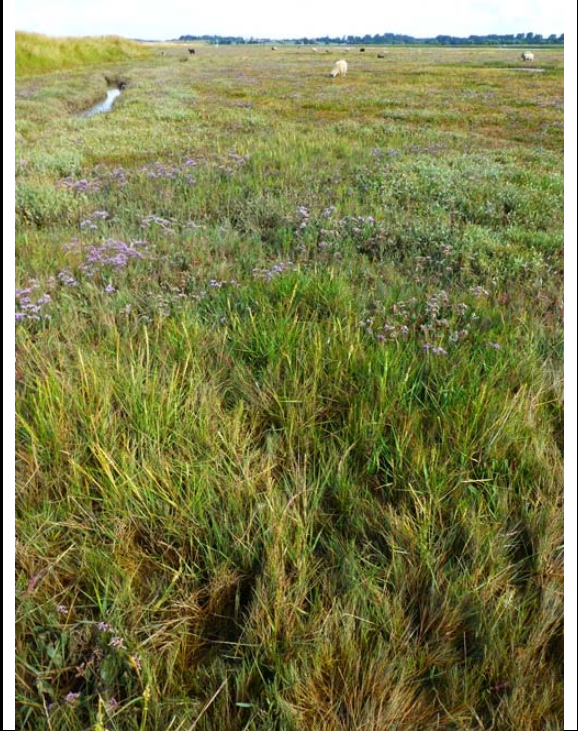
Species list

Plant Name	Plant Density
Atriplex portulacoides	20
Limonium vulgare	10
Puccinellia maritima	20
Salicornia europaea	40
Salicornia pusilla	15
Salicornia ramosissima	20
Suaeda maritima	10

Location - unit number	Grid reference	Region	Author
Unit29	TM3955548898	East Suffolk	Toby Abrehart
Sea wall vegetation. Dominated with Elytrigia atherica. With occasional other species throughout. A uniform community along this unit		Date	Quadrat Number
		19/08/2013	473
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		70cm30cm	
		Layers Cover	
		80%20%	
		Geology:	
		clay sea wall	

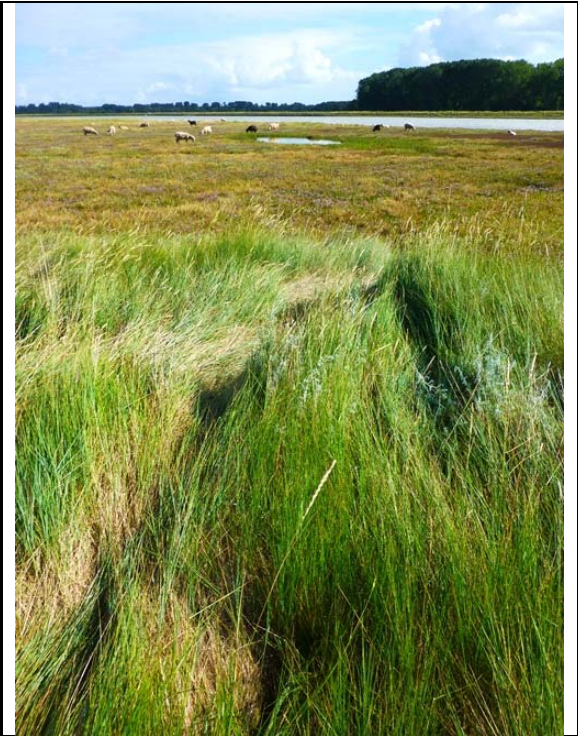
Species list

Plant Name	Plant Density
Arrhenatherum elatius	2
Dactylis glomerata	2
Elytrigia atherica	80
Festuca rubra	10
Hypochaeris radicata	2
Lathyrus nissolia	1
Senecio jacobaea	1
Vicia sativa	2

Location - unit number Unit 29	Grid reference TM3956548897	Region East Suffolk	Author Toby Abrehart
Spartina dominated community in the lower area of this saltmarsh. Covering about 10% saltmarsh. Scattered Limonium vulgare at the higher marsh adjacent 		Date 31/12/2013	Quadrat Number 474
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm,0mm	
		Layers Cover 70%20%20%	
		Geology: saltmarsh	

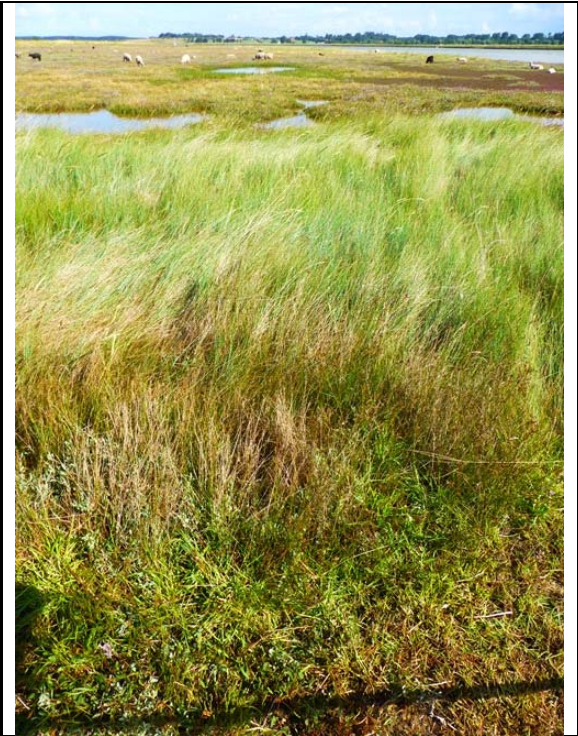
Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	4
Limonium vulgare	5
Puccinellia maritima	30
Salicornia dolichostachya	0
Salicornia pusilla	2
Spartina anglica	60
Suaeda maritima	3

Location - unit number Unit 29	Grid reference TM3958848896	Region East Suffolk	Author Toby Abrehart
Higher are of upper saltmarsh grasslands. Dominated with <i>Elytrigia atherica</i>. With occasional <i>Seriphidium maritimum</i>. Between this quadrat and the southern margin of the unit is a couple of pools 		Date 31/12/2013	Quadrat Number 475
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

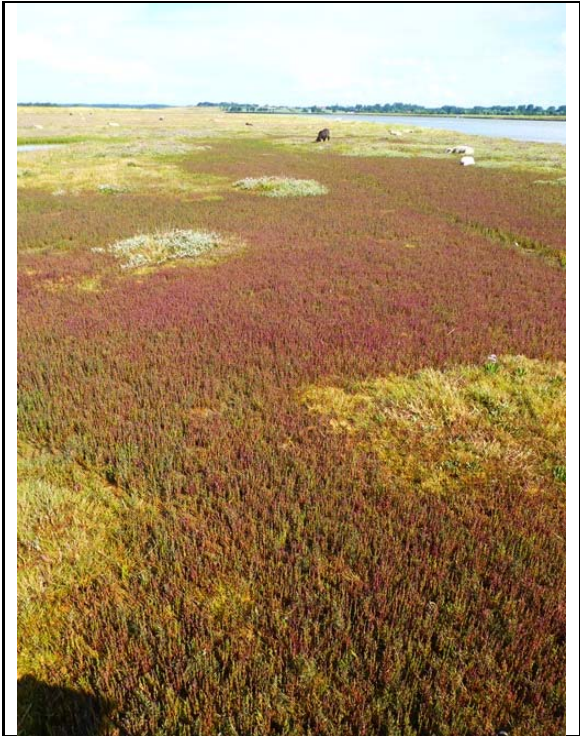
Plant Name	Plant Density
<i>Atriplex portulacoides</i>	1
<i>Elytrigia atherica</i>	95
<i>Festuca rubra</i>	2
<i>Seriphidium maritimu</i>	4
<i>Urtica dioica</i>	1

Location - unit number Unit 29	Grid reference TM3961248890	Region East Suffolk	Author Toby Abrehart
Transition zone from saltmarsh to Elytrigia atherica grasslands. Matrix of Juncus gerardii at upper margin. 62% correlation 		Date 31/12/2013	Quadrat Number 476
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 45cm, 10cm	
		Layers Cover 50% 50%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	10
Juncus gerardii	40
Limonium vulgare	5
Plantago maritima	30
Puccinellia maritima	2
Salicornia europaea	3
Salicornia ramosissima	10

Sarcocornia perennis	3
Suaeda maritima	4

Location - unit number Unit 29	Grid reference TM3962348910	Region East Suffolk	Author Toby Abrehart
Saltmarsh pan, shallow occasional flooding, dominated with Salicornia species. All this sunit is grazed by sheep. Occasional small islands though this area 		Date 31/12/2013	Quadrat Number 477
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 8cm0mm	
		Layers Cover 60%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	5
Limonium vulgare	2
Puccinellia fasciculata	1
Puccinellia maritima	20
Salicornia europaea	60
Suaeda maritima	3

Location - unit number Unit 29	Grid reference TM3961348922	Region East Suffolk	Author Toby Abrehart
Large open pan of mud within saltmarsh. 50% open water. Bare mud the rest is dominated with <i>Salicornia ramosissima</i> 		Date 31/12/2013	Quadrat Number 478
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm0mm	
		Layers Cover 70%30%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Puccinellia maritima</i>	4
<i>Salicornia dolichostac</i>	5
<i>Salicornia ramosissima</i>	70
<i>Spartina maritima</i>	5

Location - unit number Unit 29	Grid reference TM3961448984	Region East Suffolk	Author Toby Abrehart
Creek edges. These are all holding a narrow band of grassland vegetation. Matrixed with Limonium communities.		Date 18/12/2013	Quadrat Number 479
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 35cm, 10cm	
		Layers Cover 60% 40%	
		Geology: upper saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	25
Festuca rubra	70
Limonium vulgare	1
Plantago maritima	10
Puccinellia maritima	10

Location - unit number Unit 29	Grid reference TM3961549009	Region East Suffolk	Author Toby Abrehart
Saltmarsh community near to edge of main channel. Before the narrow band of <i>Elytrigia atherica</i> at the channel margin. This community becomes more dominant towards this edge. 		Date 31/12/2013	Quadrat Number 480
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,10cm	
		Layers Cover 60%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	30
Limonium vulgare	15
Plantago maritima	10
Puccinellia maritima	50
Salicornia europaea	2
Spergularia media	2

Location - unit number Unit 29	Grid reference TM3961149053	Region East Suffolk	Author Toby Abrehart
Channel edge grassland community.		Date 19/08/2013	Quadrat Number 481
		Altitude 0m	Soil Depth 0
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm	
		Layers Cover 75%25%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Elytrigia atherica	30
Festuca rubra	40
Plantago maritima	10
Seriphidium maritimu	10

Plant Name	Plant Density
<i>Dactylis glomerata</i>	5
<i>Elytrigia atherica</i>	85
<i>Festuca rubra</i>	2
<i>Lathyrus nissolia</i>	2
<i>Rumex obtusifolius</i>	1
<i>Seriphidium maritimu</i>	2

Location - unit number Unit 29	Grid reference TM3923749963	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh community. Dominated with <i>Atriplex portulacoides</i> with occasional <i>Spartina anglica</i>		Date 18/12/2013	Quadrat Number 483
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm, 20cm, bare mud	
		Layers Cover 30% 40% 30%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex portulacoides</i>	50
<i>Limonium vulgare</i>	3
<i>Plantago maritima</i>	2
<i>Puccinellia maritima</i>	10
<i>Salicornia europaea</i>	5
<i>Spartina anglica</i>	15
<i>Suaeda maritima</i>	5

Location - unit number	Grid reference	Region	Author
Unit 29	TM3912650147	East Suffolk	Toby Abrehart
Upper end of unit 29. Saltmarsh community dominated with <i>Atriplex portulacoides</i> . With scattered <i>Limonium vulgare</i> and a sprinkling of <i>Puccinellia maritima</i>		Date	Quadrat Number
		31/12/2013	484
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		25cm, 10cm	
		Layers Cover	
		65% 35%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex portulacoides</i>	40
<i>Limonium vulgare</i>	10
<i>Plantago maritima</i>	2
<i>Puccinellia maritima</i>	50
<i>Salicornia pusilla</i>	3
<i>Salicornia ramosissima</i>	2
<i>Spartina maritima</i>	1

<i>Spergularia media</i>	2
<i>Suaeda maritima</i>	10
<i>Triglochin maritimum</i>	2

A photograph showing a vast, flat wetland or marsh area. The foreground is covered in dense, low-growing vegetation, likely sedges or grasses, with many small, shallow pools of water interspersed among the plants. The vegetation has a mix of green and brownish-yellow hues. In the background, a calm body of water stretches across the middle ground. Beyond the water, a distant shoreline is visible, featuring a line of trees and a small, light-colored building or structure on the left side. The sky is a pale, overcast blue.

Spargularia media	2
Suaeda maritima	15

Location - unit number	Grid reference	Region	Author
Unit29	TM3890550121	East Suffolk	Toby Abrehart
Upper saltmarsh community dominated with Juncus maritimus		Date	Quadrat Number
		31/12/2013	486
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,30cm0mm	
		Layers Cover	
		40%50%20%	
		Geology:	
		saltmarsh	

Species list

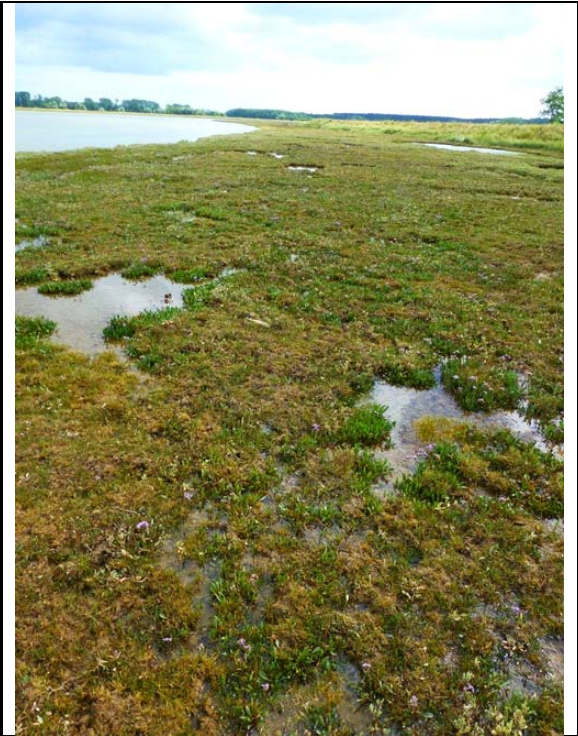
Plant Name	Plant Density
<i>Atriplex portulacoides</i>	25
Bare mud	15
<i>Elytrigia atherica</i>	10
<i>Juncus maritimus</i>	35
<i>Limonium vulgare</i>	5
<i>Plantago maritima</i>	5
<i>Puccinellia maritima</i>	15
<i>Salicornia europaea</i>	5

<i>Triglochin maritimum</i>	10
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Location - unit number Unit 29	Grid reference TM3889150128	Region East Suffolk	Author Toby Abrehart
Upper grasslands before the sea wall. Dominated with Elytrigia atherica and serimarit, occasional Juncus maritimus scattered throughout, becoming more dominant within the saltmarsh itself. 		Date 31/12/2013	Quadrat Number 487
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 75%25%	
		Geology: Saltmarsh	

Species list

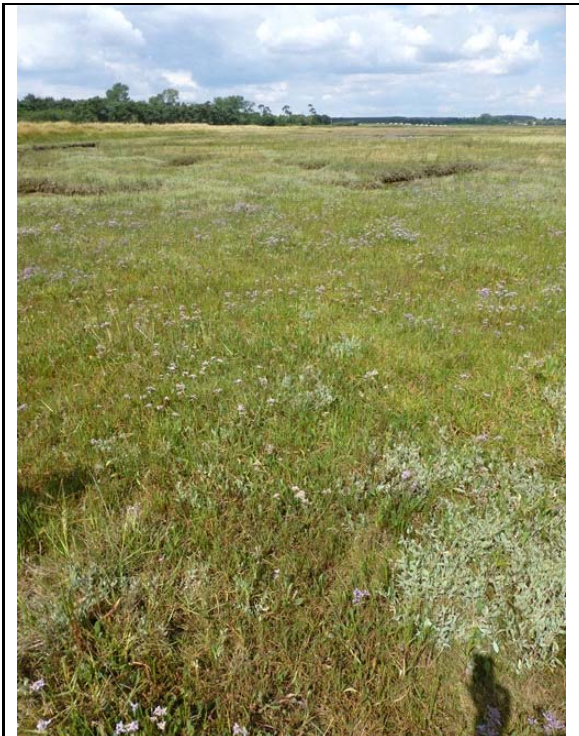
Plant Name	Plant Density
Atriplex portulacoides	3
Elytrigia atherica	80
Glaux maritima	20
Seriphidium maritimu	10

Location - unit number Unit 29	Grid reference TM3888450156	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh near to main channel at northern end of the unit 29. This whole northern end of the unit has been heavily grazed by sheep. The marsh has considerable poaching throughout. 		Date 31/12/2013	Quadrat Number 488
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm10mm	
		Layers Cover 85%15%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	15
Bare mud	25
Limonium vulgare	30
Plantago maritima	10
Puccinellia maritima	60
Sarcocornia perennis	5
Spergularia media	2

Location - unit number	Grid reference	Region	Author
Unit 43	TM3872650204	East Suffolk	Toby Abrehart
Saltmarsh. Upper saltmarsh near to the sea wall. Occasional <i>Spartina anglica</i> and <i>Limonium vulgare</i> . Ungrazed habitat		Date	Quadrat Number
		18/12/2013	489
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,15cm0mm	
		Layers Cover	
		15%80%5%	
		Geology:	
		saltmarsh	



Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	5
<i>Aster tripolium</i>	10
<i>Atriplex portulacoides</i>	15
<i>Limonium vulgare</i>	30
<i>Plantago maritima</i>	5
<i>Puccinellia maritima</i>	15
<i>Salicornia europaea</i>	10
<i>Salicornia ramosissima</i>	3

<i>Spartina anglica</i>	10
<i>Spergularia media</i>	2

Location - unit number Unit 43	Grid reference TM3872450200	Region East Suffolk	Author Toby Abrehart
Sea wall vegetation. Dominated with elytrigia atherica in the lower margins developing into Arrhenatherum elatius towards the upper slope. Ungrazed marshes		Date 19/08/2013	Quadrat Number 490
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 80%20%	
		Geology: clay sea wall	



Species list

Plant Name	Plant Density
Agrostis stolonifera	3
Cirsium arvense	2
Elytrigia atherica	80
Glaux maritima	5
Juncus gerardii	2
Juncus maritimus	2
Plantago maritima	5
Rumex obtusifolius	2

Location - unit number Unit43	Grid reference TM3875050245	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh mosaic with numerous pools and scattered clumps of Limonium vulgare,		Date 31/12/2013	Quadrat Number 491
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm5cm0mm	
		Layers Cover 30%30%40%	
		Geology: saltmars	
			

Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	4
Bare mud	30
Limonium vulgare	30
Plantago maritima	3
Puccinellia maritima	15
Salicornia europaea	4
Salicornia ramosissima	5

Spartina maritima	5
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Location - unit number Unit43	Grid reference TM3861650493	Region East Suffolk	Author Toby Abrehart
Middle of saltmarsh, small stand of <i>Juncus gerardii</i> within the main community of <i>Juncus maritimus</i>. Occasional <i>Atriplex portulacoides</i>. 		Date 31/12/2013	Quadrat Number 492
		Altitude 0m	Soil Depth
		Stand Area 5x5m	Sample Area 4
		Layers mean height 60cm,40cm,15cm	
		Layers Cover 50%30%20%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex portulacoides</i>	10
<i>Festuca rubra</i>	2
<i>Juncus gerardii</i>	70
<i>Juncus maritimus</i>	15
<i>puccinellia distans</i>	3

Location - unit number	Grid reference	Region	Author
Unit 43	TM3865550497	East Suffolk	Toby Abrehart
Middle saltmarsh dominated with Juncus maritimus 		Date 18/12/2013	Quadrat Number 493
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,20cm	
		Layers Cover 80%20%	
		Geology: saltmarsh	

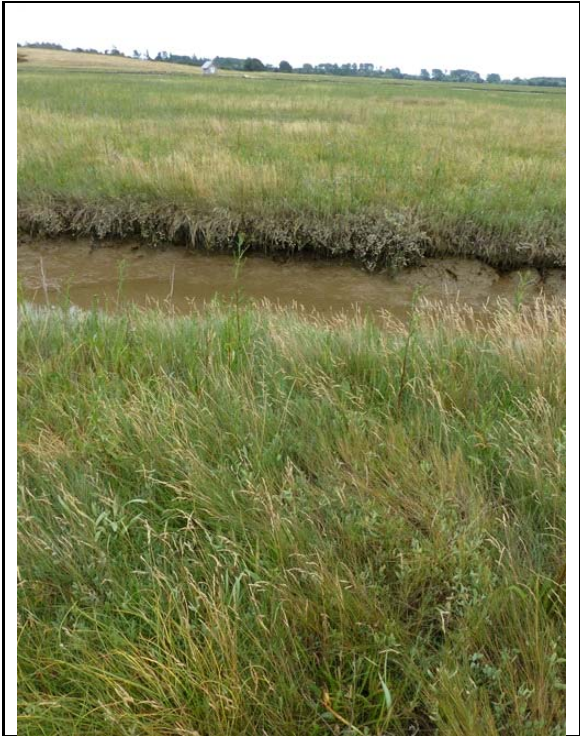
Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	15
<i>Juncus maritimus</i>	80
<i>Limonium vulgare</i>	2
<i>Plantago maritima</i>	3

Location - unit number Unit43	Grid reference TM3866750500	Region East Suffolk	Author Toby Abrehart
Getting towards the outer saltmarsh, dominated with Festuca rubra and Limonium vulgare 		Date 18/12/2013	Quadrat Number 494
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,15cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Festuca rubra	25
Limonium vulgare	20
Plantago maritima	5
Puccinellia distans	2
Puccinellia maritima	30
Suaeda maritima	2

Location - unit number Unit43	Grid reference TM3869150516	Region East Suffolk	Author Toby Abrehart
Near to inner channel, dominated with Aster tripolium, Triglochin maritima and Festuca rubra.		Date 18/12/2013	Quadrat Number 495
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,15cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	20
Festuca rubra	25
Limonium vulgare	10
Plantago maritima	2
Puccinellia distans	2
Puccinellia maritima	10
Spergularia media	2

Suaeda maritima	10
Triglochin maritimum	30

Location - unit number Unit43	Grid reference TM3855250486	Region East Suffolk	Author Toby Abrehart
Grasslands near to the sea wall, occasional <i>Armeria maritima</i> nearby 		Date 31/12/2013	Quadrat Number 496
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 60%30%	
		Geology: upper saltmarsh	

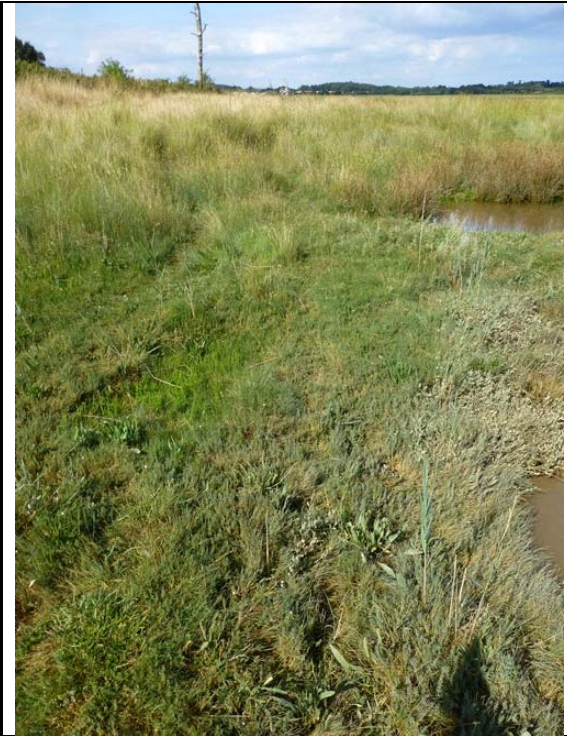
Species list

Plant Name	Plant Density
<i>Agrostis stolonifera</i>	15
<i>Atriplex prostrata</i>	4
<i>Carex distans</i>	5
<i>Elytrigia atherica</i>	30
<i>Festuca rubra</i>	40
<i>Juncus maritimus</i>	5
<i>Senecio jacobaea</i>	2

Location - unit number Unit43	Grid reference TM3853650527	Region East Suffolk	Author Toby Abrehart
Upper grassland habitat near to the sea wall. Sandy substrate.		Date 19/08/2013	Quadrat Number 497
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 80cm,50cm10cm	
		Layers Cover 15%60%25%	
		Geology: sandy soils	
			

Species list

Plant Name	Plant Density
<i>Agrostis stolonifera</i>	30
<i>Arrhenatherum elatius</i>	10
<i>Elytrigia repens</i>	40
<i>Festuca rubra</i>	30
<i>Lotus tenuis</i>	4
<i>Ulex europaeus</i>	3

Location - unit number Unit43	Grid reference TM3850450630	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh, dominated with Glaux maritima with a small amount of Phragmites australis along the base of the sea wall. 		Date 18/12/2013	Quadrat Number 498
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,10cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	2
Glaux maritima	50
Limonium vulgare	5
Phragmites australis	10
Plantago maritima	5
Puccinellia maritima	30
Seriphidium maritimu	5
Spergularia media	1

Triglochin maritimum	10
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Location - unit number Unit43	Grid reference TM3851350687	Region East Suffolk	Author Toby Abrehart
Above the upper saltmarsh. This area extends along in front of the sea wall. This is a community of acid grasslands. In the upper levels it is dominated with <i>Pteridium aquilinum</i>. This then leads into the U1 grassland before entering the <i>Elytrigia repens</i> grasslands near to the saltmarsh. 		Date 19/08/2013	Quadrat Number 499
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm,10mm	
		Layers Cover 40%40%20%	
		Geology: sandlings	

Species list

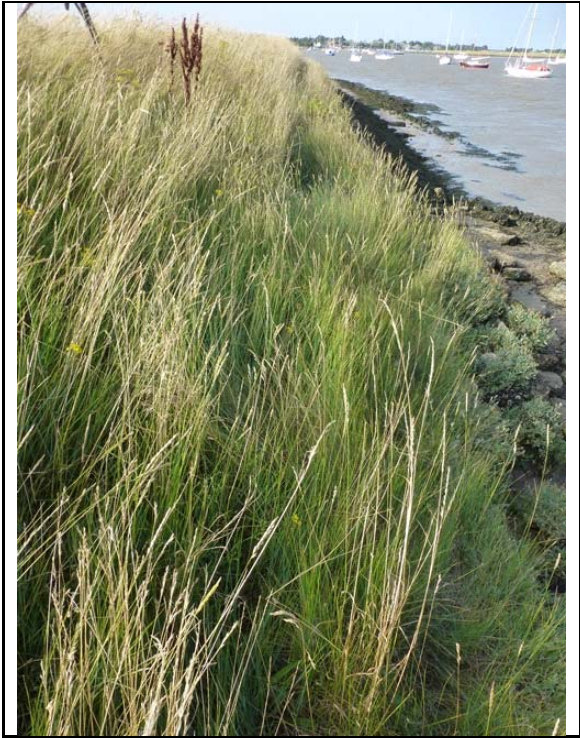
Plant Name	Plant Density
<i>Agrostis canina</i>	40
<i>Cytisus scoparius</i>	5
<i>Festuca rubra</i>	20
<i>Holcus mollis</i>	10
<i>Pseudosclerodopium</i>	10
<i>Rumex acetosella</i>	5
<i>Trifolium pratense</i>	3

Location - unit number Unit43	Grid reference TM3850550721	Region East Suffolk	Author Toby Abrehart
Acid grassland with sedges at the northern edge of the unit 		Date 19/08/2013	Quadrat Number 500
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,20cm,10mm	
		Layers Cover 20%60%20%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Agrostis canina	5
Carex arenaria	20
Cytisus scoparius	3
Festuca rubra	60
Holcus mollis	3
Plantago coronopus	3
Plantago lanceolata	1
Rumex crispus	1

Senecio jacobaea	3
Trifolium pratense	2

Location - unit number Unit 24	Grid reference TM4250448488	Region East Suffolk	Author Toby Abrehart
Southern end of unit 24. Grass covered sea wall with a very narrow border to the rubble shore edge. Bupleurum tenuissimum in this sample with 5 more plants nearby. The habitat for this species is as in other sections around this unit. Of being found in with and at the upper limits of the seri marit line on the sea wall, 		Date 31/12/2013	Quadrat Number 503
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 80%20%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	30
Bupleurum tenuissimu	3
Cirsium vulgare	2
Elytrigia atherica	40
Festuca rubra	20
Medicago lupulina	3
Picris echioides	5
Plantago lanceolata	4

Senecio jacobaea	3
Seriphidium maritimu	10

Location - unit number	Grid reference	Region	Author
Unit 24	TM4250048488	East Suffolk	Toby Abrehart
Top of the sea wall. Footpath running along the centre of the wall, with compacted <i>Lolium perenne</i> grassland dominated. The margins of the path are covered in long <i>Arrhenatherum elatius</i> grasslands with abundant <i>Elytrigia repens</i> 		Date	Quadrat Number
		31/12/2013	504
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm, 20cm	
		Layers Cover	
		80% 20%	
		Geology:	
		clay sea wall	

Species list

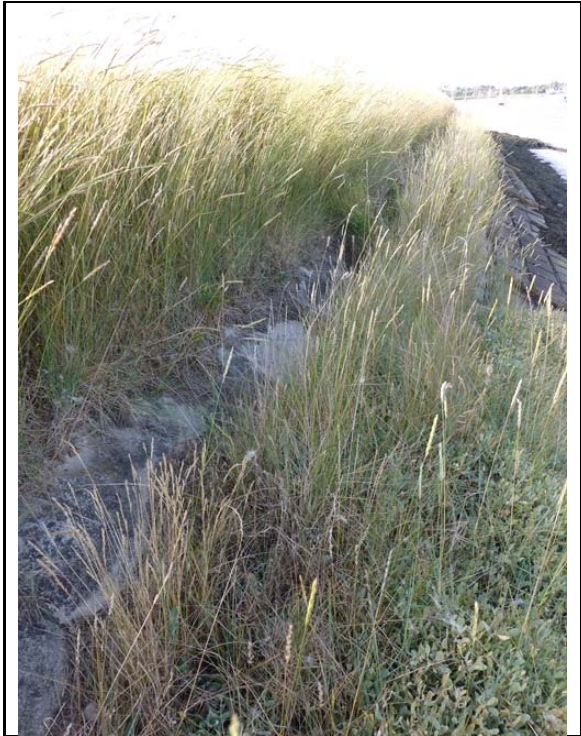
Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	40
<i>Cirsium arvense</i>	2
<i>Cirsium vulgare</i>	2
<i>Elytrigia atherica</i>	20
<i>Elytrigia repens</i>	20
<i>Festuca rubra</i>	10
<i>Plantago lanceolata</i>	2
<i>Rumex crispus</i>	2

<i>Senecio jacobaea</i>	3
<i>Trifolium repens</i>	2

Location - unit number Unit 24	Grid reference TM4250348491	Region East Suffolk	Author Toby Abrehart
Rubble shoreline at the base of the sea wall. This concrete rubble at its upper levels holds a dominant community of <i>Atriplex portulacoides</i>. At this location one small (15cm) high <i>Suaeda vera</i> plant - photo 105-0094. Below this community is a band of muds and shingles scattered throughout the concrete rubble, this is before the <i>Fucus</i> covered wooden impounded revetment adjacent to the river. To the north of this section the sea wall is impounded with interlocking concrete blocks the lower levels 		Date 31/12/2013	Quadrat Number 505
		Altitude 0M	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 25cm	
		Layers Cover 100%	
		Geology: base of sea wall	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	3
<i>Atriplex portulacoides</i>	70
Bare mud	10
<i>Elytrigia atherica</i>	15
<i>Plantago maritima</i>	5
<i>Suaeda vera</i>	2

Location - unit number	Grid reference	Region	Author
Unit 24	TM4250048524	East Suffolk	Toby Abrehart
Upper edge of the impounded sea wall. Limited vegetation along this narrow strip. Though it holds some interwesting plant species including Bupleurum tenuissimum and Cochlearia officinalis 		Date	Quadrat Number
		31/12/2013	506
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,20cm10cm,0mm	
		Layers Cover	
		20%40%10%20%	
		Geology:	
		concrete seaz wall	

Species list

Plant Name	Plant Density
Atriplex portulacoides	15
Bare concrete	50
Beta vulgaris subsp. m	2
Bromus hordaceus	30
Bupleurum tenuissimu	3
Cerastium fontanum	4
Cochlearia officinalis	3
Elytrigia atherica	30

Picris echinoides	2
Torilis nodosa	3

A photograph showing a coastal landscape. In the foreground, there is a dense patch of tall, golden-brown grasses growing on a dune. A low, grey stone wall runs diagonally across the middle of the image, separating the grassy area from the ocean. The ocean is visible on the right side, with a small boat in the distance. The sky is overcast and grey.

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	30
<i>Atriplex portulacoides</i>	5
<i>Beta vulgaris</i> subsp. M	2
<i>Bupleurum tenuissimu</i>	5
<i>Elytrigia atherica</i>	50
<i>Festuca rubra</i>	10
<i>Torilis nodosa</i>	2
<i>Vicia sativa</i>	2

Location - unit number	Grid reference	Region	Author
Unit24	TM4242048741	East Suffolk	Toby Abrehart
Top part of the sea wall. Footpath through the centre. 		Date	Quadrat Number
		18/12/2013	508
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,30cm,10cm	
		Layers Cover	
		15%50%35%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	30
Cerastium fontanum	3
Cynosurus cristatus	25
Elytrigia atherica	20
Festuca rubra	10
Hordeum secalinum	20
Picris echioides	3
Plantago lanceolata	3

Torilis nodosa	3
Vicia hirsuta	2
vicia sativa	2

Location - unit number Unit 24	Grid reference TM4237748893	Region East Suffolk	Author Toby Abrehart
Sea wall, Lower section has been impounded and the upper layer is well vegetated with grasses. There are still several plants of <i>Bupleurum tenuissimum</i> running through the upper saltmarsh zone here above the <i>Atriplex portulacoides</i>. 		Date 31/12/2013	Quadrat Number 509
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm, 10cm	
		Layers Cover 50% 50%	
		Geology: Impounded sea wall	

Species list

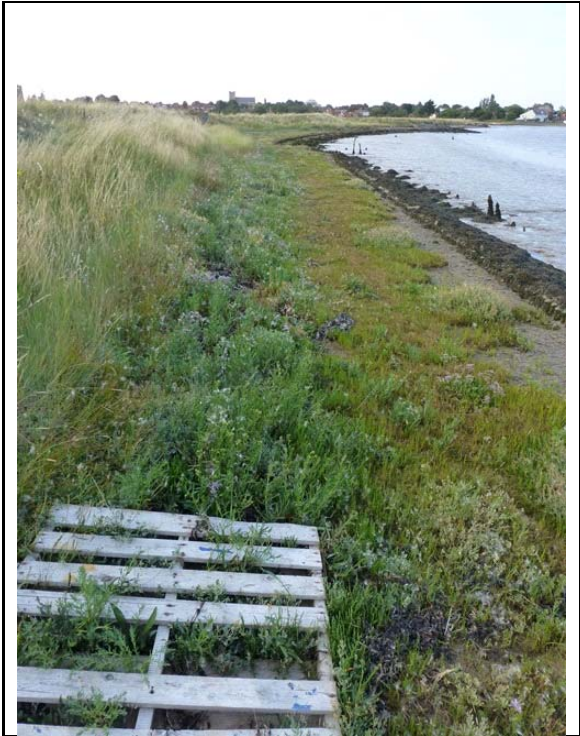
Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	30
<i>Atriplex portulacoides</i>	10
<i>Bromus hordeaceus</i>	5
<i>Bupleurum tenuissimu</i>	3
<i>Cirsium arvense</i>	2
<i>Cochlearia officinalis</i>	3
<i>Elytrigia atherica</i>	40
<i>Festuca rubra</i>	30

<i>Picris echinoides</i>	2
<i>Sonchus oleraceus</i>	2

Location - unit number Unit 24	Grid reference TM4236648942	Region East Suffolk	Author Toby Abrehart
This section of the unit 24, is a narrow strip of annual salicornia vegetation. Where the salicornia community covers about 25% of the shingley mud. This is before the focus of the wooden impounded section. Further to the north the community develops to include occasional <i>Spartina maritima</i>, <i>Limonium vulgare</i>, <i>Aster tripolium</i> 		Date 31/12/2013	Quadrat Number 510
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm,0mm	
		Layers Cover 25%75%	
		Geology: bare mud	

Species list

Plant Name	Plant Density
Bare mud	75
<i>Salicornia europaea</i>	25

Location - unit number Unit 24	Grid reference TM4233049134	Region East Suffolk	Author Toby Abrehart
Here there is a wider section of saltmarsh community developing. The transition from wooden impounded fucus covered lower community is 1.5m wide, lower Salicornia SM 0.5m wide, Salicornia to Aster zone 1m wide, Aster, Pucc marit zone 1m wide. Finishing with 20cm wide Juncus gerardii zone. Above this the dominant SM24 No Bupl ten in tis section to Orford 		Date 31/12/2013	Quadrat Number 511
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm,0mm	
		Layers Cover 60%30%10%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	30
Atriplex portulacoides	20
Bare mud	5
Juncus gerardii	10
Limonium vulgare	5
Plantago maritima	6
Salicornia europaea	20
Suaeda maritima	4

Location - unit number Unit24	Grid reference TM4233549231	Region East Suffolk	Author Toby Abrehart
Heavy erosion along the sea wall here, an eroded cliff has been formed up to the shingle beach before the rest of the impounded sea wall. 		Date 31/12/2013	Quadrat Number 512
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,30cm	
		Layers Cover 60%40%	
		Geology: Saltmarsh	

Species list

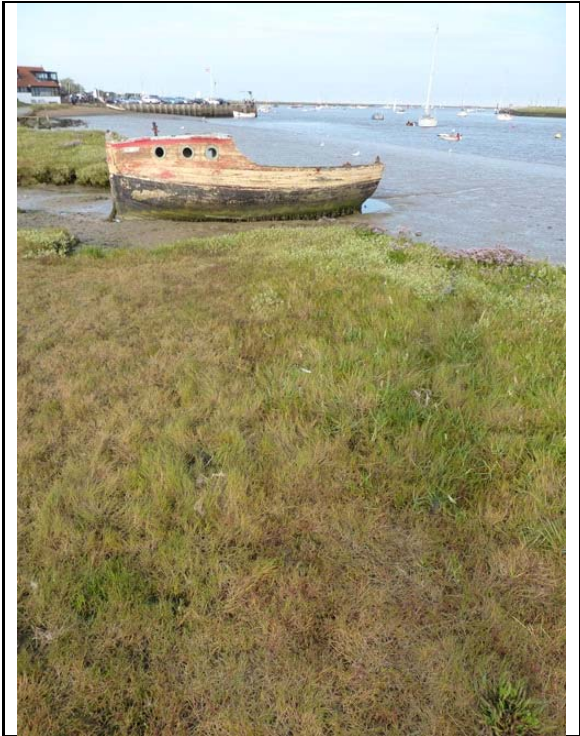
Plant Name	Plant Density
Atriplex portulacoides	10
Elytrigia atherica	2
Festuca rubra	2
Fucus vesiculosus	4
Plantago maritima	3
Salicornia ramosissima	2
Seriphidium maritimu	4
Spergularia media	2

Triglochin maritimum	2
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Location - unit number Unit 24	Grid reference TM4233849270	Region East Suffolk	Author Toby Abrehart
Area of Juncus and plan mart embayment of vegetation. Bewhind the shingle beach, where there was a narrow strip of Elytrigia atherica. This patch of land is lower than the Elytrigia grasslands. 		Date 31/12/2013	Quadrat Number 513
		Altitude 1m	Soil Depth
		Stand Area 5x6m	Sample Area 4
		Layers mean height 5cm	
		Layers Cover 100%	
		Geology: flattened saltmarsh grass	

Species list

Plant Name	Plant Density
Armeria maritima	2
Aster tripolium	2
Atriplex portulacoides	2
Festuca rubra	30
Glaux maritima	15
Juncus gerardii	30
Plantago maritima	20

Location - unit number	Grid reference	Region	Author
Unit 24	TM4241849450	East Suffolk	Toby Abrehart
Saltmarsh just to the south of the village. Dominated with <i>Puccinellia maritima</i> and <i>Spartina anglica</i>		Date	Quadrat Number
		31/12/2013	514
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		3cm	
		Layers Cover	
		100%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Puccinellia maritima</i>	95
<i>Salicornia europaea</i>	2

Location - unit number Unit 24	Grid reference TM4276649682	Region East Suffolk	Author Toby Abrehart
Seawall to the north of Orford. Clay wall, ungrazed. Dominant grassland vegetation with MG1 constant. Scattered <i>Smyrnium olustrum</i> and <i>Beta vulgaris</i> common along this section of the wall. Occ <i>Bupleurum tenuissimum</i> at lower levels. At the base of the sea wall there is a distinct cliff developing 		Date 31/12/2013	Quadrat Number 515
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,60cm,30cm	
		Layers Cover 10%50%40%	
		Geology: clay wall	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	70
<i>Beta vulgaris</i> subsp. M	5
<i>Dactylis glomerata</i>	10
<i>Elytrigia atherica</i>	10
<i>Malva sylvestris</i>	5
<i>Smyrnium olusatrum</i>	10

Location - unit number	Grid reference	Region	Author
Unit 24	TM4277249667	East Suffolk	Toby Abrehart
Area of low occasionally grazed salicornia and puccinellia saltmarsh. Covering about a third of this section of marsh. Scattered Limonium vulgare. The outer saltmarsh community is dominated with Limonium vulgare and Spartina anglica 		Date	Quadrat Number
		31/12/2013	516
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		8cm, 0mm	
		Layers Cover	
		70% 30%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	21
Puccinellia maritima	50
Salicornia dolichostachya	2
Salicornia europaea	10
Salicornia ramosissima	15
Suaeda maritima	2

Location - unit number Unit 24	Grid reference TM4277949668	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh. Dominated with limonium and rayless aster tripolium. At the outer edge of the saltmarsh adjacent to the river the land rises through deposition and there is a devedped distribution of Atriplex portulacoides. Spartina maritima is scattered through this community 		Date 31/12/2013	Quadrat Number 517
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 25cm,10cm	
		Layers Cover 40%60%	
		Geology: slatmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	4
Limonium vulgare	40
Puccinellia maritima	10
Salicornia europaea	25
Salicornia ramosissima	2
Spartina anglica	10
Spergularia media	2
Suaeda maritima	2

Location - unit number Unit24	Grid reference TM4281049682	Region East Suffolk	Author Toby Abrehart
Base of sea wall. The main community here is dominated with <i>Atriplex portulacoides</i> at the lowest level, with the SM24 developing above. Occasional <i>Bupleurum tenuissimum</i> within this narrow margin.		Date 31/12/2013	Quadrat Number 518
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm0mm	
		Layers Cover 30%60%10%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Agrostis stolonifera	5
Aster tripolium	3
Atriplex portulacoides	20
Bare mud	5
Bupleurum tenuissimu	2
Elytrigia atherica	40
Limonium vulgare	2
Plantago maritima	10

Puccinellia maritima	2
Salicornia europaea	2
Sarcocornia perennis	2
Seriphidium maritimu	2
Spergularia media	3
Suaeda maritima	3

Location - unit number Unit 24	Grid reference TM4295849674	Region East Suffolk	Author Toby Abrehart
Impounded seawall section of saltmarsh-open muds. Some shingle close to the base of the sea wall. On the sea wall there is a narrow strip of saltmarsh community, with atriplex and lim humile and occasional Seriphidium maritimum, and Sarcocornia perennis. This leads into the SM24 grasslands 		Date 31/12/2013	Quadrat Number 519
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10mm,0mm	
		Layers Cover 50%50%	
		Geology: open mud	

Species list

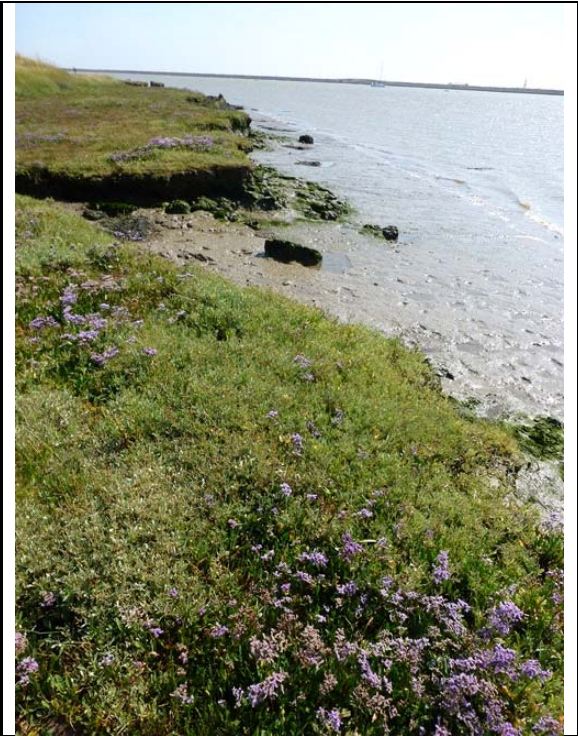
Plant Name	Plant Density
Bare mud	50
Bostrychia scorpioides	20
Enteromorpha intestin	5
Fucus serratus	35

Location - unit number Unit 24	Grid reference TM4324149653	Region East Suffolk	Author Toby Abrehart
Base of sea wall. Main community of SM24, with the lower levels above the high tide line holding abundant atriplex portulacoides. Occasional Bupleurum tenuissimum all along this section of saltmarsh, not abundant but a few plants every ten metres or so. A steep transitoion into the salicornia and pucc marit saltmarsh community below. 		Date 31/12/2013	Quadrat Number 520
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,30cm	
		Layers Cover 60%40%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	2
Atriplex portulacoides	10
Bupleurum tenuissimu	2
Elytrigia atherica	60
Festuca rubra	10
Hennediella heimii	5
Lathyrus nissolia	1
Plantago coronopus	10

Plantago maritima	10
Vicia sativa	10

Location - unit number	Grid reference	Region	Author
Unit 24	TM4324149645	East Suffolk	Toby Abrehart
Outer saltmarsh at edge of river channel. Dominated with <i>Atriplex portulacastris</i> and <i>Limonium vulgare</i>. All along this outer section of the unit. Margin heavily eroded with a 1m drop off. Between here and sea wall is the <i>Salicornia/Puccinellia maritima</i> community with occasional <i>Spartina maritima</i> 		Date	Quadrat Number
		31/12/2013	521
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		20cm, 10cm	
		Layers Cover	
		70% 30%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	3
<i>Aster tripolium</i>	5
<i>Atriplex portulacastris</i>	50
<i>Limonium vulgare</i>	25
<i>Puccinellia maritima</i>	5
<i>Spartina anglica</i>	3
<i>Spergularia media</i>	2
<i>Suaeda maritima</i>	5

<i>Triglochin maritimum</i>	3
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Location - unit number	Grid reference	Region	Author
Unit24	TM4329349657	East Suffolk	Toby Abrehart
Section of old sea wall heading out into the river channel. Festuca and Elytrigia grassland with abundant Bupleurum tenuissimum throughout. 		Date	Quadrat Number
		31/12/2013	522
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
Layers mean height			
40cm,20cm			
Layers Cover			
30%70%			
Geology:			
clay sea wall			

Species list

Plant Name	Plant Density
Atriplex portulacoides	4
Bupleurum tenuissimu	15
Cerastium fontanum	2
Elytrigia atherica	40
Festuca rubra	30
Hypochaeris radicata	2
Leontodon autumnalis	2
Plantago coronopus	4

Plantago lanceolata	10
Poa annua	4

Location - unit number	Grid reference	Region	Author
Unit24	TM4345549749	East Suffolk	Toby Abrehart
Middle of this section of saltmarsh. Atri - limon community 60% limon salic community30% salic pucc community10%		Date	Quadrat Number
		31/12/2013	523
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		25cm,10cm	
		Layers Cover	
		70%30%	
		Geology:	
		slatmarsh	



Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	50
Limonium vulgare	35
puccinellia distans	2
Salicornia ramosissima	10
Spartina anglica	6
Spergularia media	2
Suaeda maritima	3

Location - unit number	Grid reference	Region	Author
Unit 24	TM4358549868	East Suffolk	Toby Abrehart
Impounded section of sea wall. 100m section where the base of the wall is covered in fucus with a clear area of concrete then the <i>Seriphidium maritimum</i> community starts. Within this community the <i>Bupleurum tenuissimum</i> is well distributed. 		Date	Quadrat Number
		18/12/2013	524
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,20cm,0mm	
		Layers Cover	
		30%50%20%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	2
<i>Beta vulgaris</i> subsp. m	4
<i>Bromus hordeaceus</i>	10
<i>Bupleurum tenuissimu</i>	5
<i>Cerastium fontanum</i>	2
<i>Crepis vesicaria</i>	3
<i>Elytrigia repens</i>	30
<i>Plantago coronopus</i>	2

<i>Plantago lanceolata</i>	3
<i>Senecio jacobaea</i>	2
<i>Seriphidium maritimu</i>	5
<i>Sonchus asper</i>	2

Location - unit number Unit24	Grid reference TM4366749995	Region East Suffolk	Author Toby Abrehart
End of main impounded sea wall		Date 18/12/2013	Quadrat Number 525
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm,10mm	
		Layers Cover 10%70%20%	
		Geology: clay sea wall	
			

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	5
<i>Bromus hordeaceus</i>	10
<i>Bupleurum tenuissimu</i>	5
<i>Elytrigia atherica</i>	10
<i>Festuca rubra</i>	40
<i>Limonium humile</i>	3
<i>Lotus tenuis</i>	10
<i>Plantago lanceolata</i>	10

Seriphidium maritimu	20
Torilis nodosa	3
Trifolium dubium	2

Location - unit number Unit 24	Grid reference TM4370650065	Region East Suffolk	Author Toby Abrehart
Dry grassland sea wall. This community covers the rest of this sea wall above high tide line. Bupleurum tenuissimum within this section, also four plants covered in Puccinia bupleurum. Second record for suffolk since 1923, specimen taken. 		Date 31/12/2013	Quadrat Number 526
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm10mm	
		Layers Cover 60%30%10%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Bupleurum tenuissimu	100
Cynosurus cristatus	10
Elytrigia atherica	3
Elytrigia repens	40
Hordeum secalinum	20
Leontodon hispidus	2
Lolium perenne	3
Plantago lanceolata	3

Location - unit number Unit24	Grid reference TM4371350068	Region East Suffolk	Author Toby Abrehart
Heavily grazed saltmarsh. This grazed community extend north on the inside of the creekline to the sea wall. Outside this grazed zone the community is dominated with limonium community Lim 70%, pucc 10% sali3%,elyt1%, open pool1%, atriplex10%		Date 31/12/2013	Quadrat Number 527
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm,0mm	
		Layers Cover 60%40%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Limonium vulgare	2
Puccinellia maritima	50
Salicornia europaea	20

Location - unit number	Grid reference	Region	Author
Unit24	TM4398750384	East Suffolk	Toby Abrehart
Main section of saltmarsh at northern end of unit 24. Mosaic of commuities throughout this section. Open pools 10% Spartina maritima 3% Atriplex portulacoides 30% Puccinellia maritima/ Salicornia 15% Spartina anglica2% Armeria maritima 1% Limonium vulgare 40% 		Date	Quadrat Number
		31/12/2013	528
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
Layers mean height			
30cm,10cm			
Layers Cover			
30%70%			
Geology:			
slatmarsh			

Species list

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	30
Limonium vulgare	40
Puccinellia maritima	20
Salicornia dolichostachya	1
Salicornia europaea	5
Salicornia ramosissima	2
Sarcocornia perennis	2

Suaeda maritima	2
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Location - unit number Unit 24	Grid reference TM4416450571	Region East Suffolk	Author Toby Abrehart
Small low section of old sea wall. Covered in Festuca rubra, Armeria maritima and Glaux maritima. 1m wide Large pools nearby which are 80% open water/bare mud with islands of eroded saltmarsh across them. These island are covered in Limonium SM. Around the edge of the pool is SM1 salicornia community with frequent spartina maritima - small one throughout. 		Date 31/12/2013	Quadrat Number 529
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 30%70%	
		Geology: saltmarsh sae wall	

Species list

Plant Name	Plant Density
Armeria maritima	10
Festuca rubra	30
Glaux maritima	20
Juncus gerardii	30
Limonium vulgare	4
Plantago maritima	3
Seriphidium maritimu	1
Spergularia media	2

Triglochin maritimum	2
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Location - unit number Unit 24	Grid reference TM4433750725	Region East Suffolk	Author Toby Abrehart
Top end of unit 24. A very different community along this section of the estuary. Outer margin with annual salicornia then the community develops from a <i>Spartina anglica</i> and <i>Aster tripolium</i> community towards the sea wall. With less spartina and aster the closer to the sea wall where <i>puccinellia</i> becomes more frequent. All grazed by cattle 		Date 31/12/2013	Quadrat Number 530
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,20cm	
		Layers Cover 40%60%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	30
<i>Atriplex portulacoides</i>	2
<i>Limonium vulgare</i>	2
<i>Puccinellia maritima</i>	40
<i>Salicornia europaea</i>	2
<i>Spartina anglica</i>	20
<i>Suaeda maritima</i>	4
<i>Triglochin maritimum</i>	2

Location - unit number	Grid reference	Region	Author
Unit 11	TM4435959873	East Suffolk	Toby Abrehart
Start of unit 11. Sea wall. Grassland community dominated with <i>Elytrigia repens</i> and <i>Arrhenatherum elatius</i>. Scattered <i>Cirsium vulgare</i> all along this sea wall. 		Date	Quadrat Number
		31/12/2013	531
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm, 10cm	
		Layers Cover	
		80% 20%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	30
<i>Bromus hordeaceus</i>	4
<i>Cirsium vulgare</i>	4
<i>Cynosurus cristatus</i>	5
<i>Dactylis glomerata</i>	5
<i>Elytrigia repens</i>	50
<i>Hordeum secalinum</i>	10
<i>Leontodon saxatilis</i>	1

<i>Medicago lupulina</i>	2
<i>Picris echinoides</i>	2
<i>Torilis nodosa</i>	3
<i>Trifolium repens</i>	2

Location - unit number	Grid reference	Region	Author
Unit 11	TM4436350880	East Suffolk	Toby Abrehart
Concrete impounded sea wall. Festuca dominated grassland above the narrow band of Atriplex portulacoides. Scattered, though rare, Bupleurum tenuissimum at this level. 		Date	Quadrat Number
		31/12/2013	532
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,20cm	
		Layers Cover	
		70%30%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Agrostis stolonifera	5
Arrhenatherum elatius	30
Bupleurum tenuissimu	3
Elytrigia atherica	40
Festuca rubra	10
Sonchus asper	3
Torilis nodosa	2
Trifolium repens	3

vicia sativa	5
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Location - unit number	Grid reference	Region	Author
Unit 11	TM4436650897	East Suffolk	Toby Abrehart
Saltmarsh. Puccinellia dominated community covering 60% ILmonium 20%spartina 10% Aster 10% Inside these outer communities is the remains of an old sea wall..		Date	Quadrat Number
		31/12/2013	533
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,10cm	
		Layers Cover	
		80%20%	
		Geology:	
		saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	3
puccinellia distans	10
Puccinellia maritima	60
Spartina maritima	10

Location - unit number	Grid reference	Region	Author
Unit 11	TM4435550972	East Suffolk	Toby Abrehart
Lower sea wall just above saltmarsh. Seriphidium maritimum and Bupleurum tenuissimum within this community. The Bupleurum tenuissimum is becoming very scarce along this section 		Date	Quadrat Number
		31/12/2013	534
		Altitude	Soil Depth
		1M	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,15cm,0mm	
		Layers Cover	
		40%40%20%	
		Geology:	
		concrete sea wall	

Species list

Plant Name	Plant Density
Bupleurum tenuissimu	2
Cerastium fontanum	4
Festuca rubra	30
Hordeum secalinum	5
Leontodon hispidus	1
Medicago lupulina	3
Seriphidium maritimu	30
Torilis nodosa	3

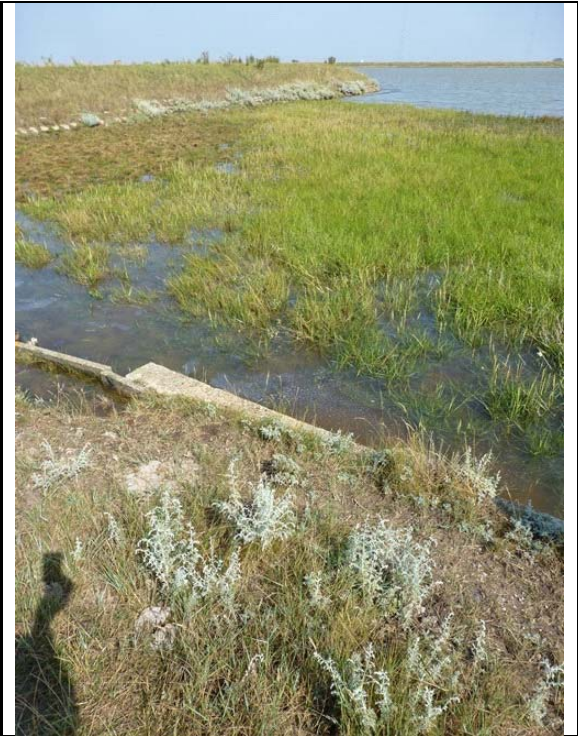
Trifolium dubium	2
Trifolium repens	5

Location - unit number	Grid reference	Region	Author
Unit 11	TM4428051234	East Suffolk	Toby Abrehart
Cattle grazed sea wall. Very close grazed at the top of the wall with light grazing towards the high tide line. At the high tide line there is only a narrow strip of <i>Atriplex portulacoides</i>, with occasional <i>Aster tripolium</i> and <i>Seriphidium maritimum</i> The grasslands on the wall are dominated with <i>Ely rep</i> and <i>Brom hord</i> Occ <i>Bup</i> ten here still, as constatnt part of the community 		Date	Quadrat Number
		31/12/2013	535
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,20cm,0mm	
		Layers Cover	
		15%60%25%	
		Geology:	
		concrete impounded sea wall	

Species list

Plant Name	Plant Density
<i>Bromus hordeaceus</i>	20
<i>Bupleurum tenuissimu</i>	3
<i>Cirsium vulgare</i>	2
<i>Elytrigia atherica</i>	10
<i>Elytrigia repens</i>	30
<i>Festuca rubra</i>	2
<i>Plantago lanceolata</i>	5
<i>Pseudosclerodopium</i>	5

<i>Rubus</i> sp	1
<i>Senecio jacobaea</i>	10
<i>Seriphidium maritimu</i>	5
<i>Torilis japonica</i>	3
<i>Torilis nodosa</i>	2
<i>Vicia sativa</i>	3

Location - unit number Unit 11	Grid reference TM4418251571	Region East Suffolk	Author Toby Abrehart
Embayment. Spartina dominated with an outer margin of Aster tripolium and at the northern higher ground is Puccinellia maritima grasslands. This quadrat is covering the high tide line section of the sea wall above the concrete wall. All well grazed 		Date 31/12/2013	Quadrat Number 536
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm,0mm	
		Layers Cover 55%30%15%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Atriplex portulacoides	3
Bupleurum tenuissimu	2
Festuca rubra	40
Lolium perenne	2
Polygonum arenarium	1
Seriphidium maritimu	20

Location - unit number Unit 11	Grid reference TM4423951713	Region East Suffolk	Author Toby Abrehart
Another small embayment. Well grazed with <i>Puccinellia maritima</i> at outer three metre section. The rest of the area is dominated with <i>Atriplex prostrata</i> and <i>Suaeda maritima</i>. 		Date 18/12/2013	Quadrat Number 537
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm, 5cm	
		Layers Cover 70% 30%	
		Geology: slatmarsh	

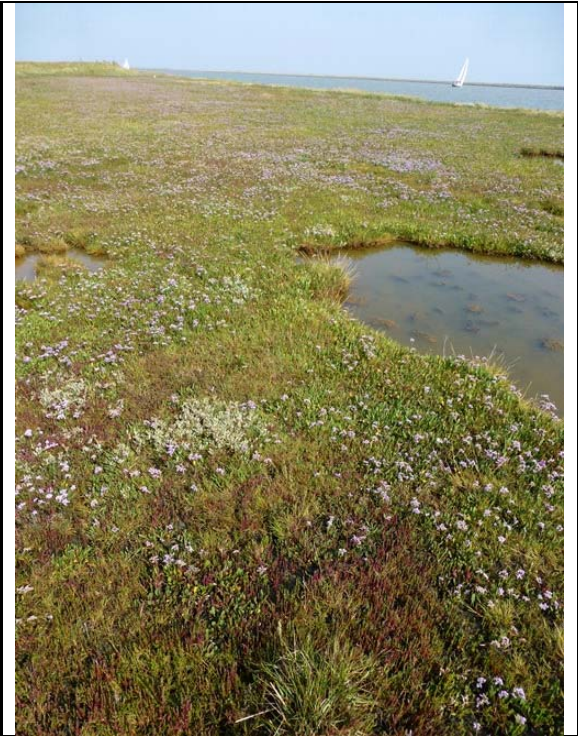
Species list

Plant Name	Plant Density
<i>Atriplex prostrata</i>	40
<i>Glaux maritima</i>	10
<i>Plantago maritima</i>	10
<i>Puccinellia maritima</i>	10
<i>Spergularia media</i>	10
<i>Suaeda maritima</i>	30
<i>Triglochin maritimum</i>	2

Location - unit number Unit 11	Grid reference TM4428551977	Region East Suffolk	Author Toby Abrehart
Sea wall. Very dry grazed grasslands. Dominated with Elytrigia repens and Bromus hordaceus. Small area of saltmarsh extending no more than 5m at this point. A matrix of Spartina, Linomium and Atriplex portulacoides. 		Date 31/12/2013	Quadrat Number 538
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm10cm	
		Layers Cover 65%35%	
		Geology: concrete impounded sea wall	

Species list

Plant Name	Plant Density
Bromus hordeaceus su	20
Bupleurum tenuissimu	2
Elytrigia atherica	4
Elytrigia repens	50
Festuca rubra	5
Plantago lanceolata	3
Senecio jacobaea	5
Seriphidium maritimu	20

Location - unit number Unit 11	Grid reference TM4440752138	Region East Suffolk	Author Toby Abrehart
Saltmarsh, small section. Limonium dominated Limonium 75% Armeria 2% SM24 2% Spartina 1% Pucc marit 3% near to sea wall where grazed Festuca rubra near to river margin 1% Open pools 5% Salicornia and Atriplex 10%		Date 31/12/2013	Quadrat Number 539
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,5cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Limonium vulgare	35
Puccinellia maritima	40
Salicornia europaea	20
Salicornia ramosissima	10
Spartina maritima	2
Spergularia media	2

Location - unit number Unit 11	Grid reference TM4486752434	Region East Suffolk	Author Toby Abrehart
Puccinellia maritima saltmarsh close to the sea wall. Very heavily poached with a small area of Phragmites australis along the margin. This community creates a three metre margin along the sea wall edge. Outside this there are the communities of Limonium/armeria communities, with some spartina and open pools 		Date 23/08/2013	Quadrat Number 540
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,5cm,0mm	
		Layers Cover 30%40%30%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	4
Limonium vulgare	2
Phragmites australis	10
Puccinellia maritima	60
Salicornia europaea	3
Salicornia pusilla	2
Sarcocornia perennis	3
Spergularia media	3

Suaeda maritima	3
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Location - unit number	Grid reference	Region	Author
Unit 11	TM4487652429	East Suffolk	Toby Abrehart
Middle of this section of saltmarsh A dense mosaic of communities. Limonium 25% Armeria 10% Atriplex 10% Spartina 10% Pucc marit 30% Open mud 10% Salicornia 5% 		Date	Quadrat Number
		31/12/2013	541
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		30cm,5cm	
		Layers Cover	
		55%45%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	10
Limonium vulgare	40
Plantago maritima	3
Puccinellia maritima	5
Salicornia dolichostachya	2
Salicornia europaea	1
Salicornia ramosissima	3
Spergularia media	3

Suaeda maritima	4
Triglochin maritimum	3

Location - unit number	Grid reference	Region	Author
Unit 11	TM4495552488	East Suffolk	Toby Abrehart
Sea wall. Very dry grassland quite close to the sea here. 		Date	Quadrat Number
		31/12/2013	542
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,40cm,20cm10mm	
		Layers Cover	
		10%30%30%30%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	30
Beta vulgaris subsp. M	2
Bromus hordeaceus	10
Dactylis glomerata	10
Elytrigia repens	15
Festuca rubra	10
Lactuca serriola	2
Lactuca virosa	3

Leontodon autumnalis	10
Picris echinoides	2
Pseudosclerodopium	20
Rumex obtusifolius	2
Senecio jacobaea	5
Sonchus oleraceus	2
Torilis nodosa	2
Vulpia bromoides	5

Location - unit number Unit 11	Grid reference TM4516952713	Region East Suffolk	Author Toby Abrehart
Outer edge of saltmarsh near to river. Spartina and aster community 40% Limonium community 40% Salicornia community 5% Armeria community 5% Open pools 5% Pucc marit 5% near to sea wall and well grazed		Date 31/12/2013	Quadrat Number 543
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,15cm	
		Layers Cover 45%55%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	20
Atriplex portulacoides	20
Limonium vulgare	20
Puccinellia distans	10
Salicornia europaea	2
Salicornia ramosissima	5
Spartina anglica	30

Location - unit number	Grid reference	Region	Author
Unit 11	TM4522552845	East Suffolk	Toby Abrehart
At the northern end of this section of saltmarsh, the armeria community starts to dominate. Armeria 45% Limonium 35% Atriplex 10% Spartina 5% Open pools 8% Pucc mariti and Suaeda 2% Grazed by Brown Hares, Little poaching, very 		Date	Quadrat Number
		31/12/2013	544
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		20cm,5cm	
		Layers Cover	
		30%70%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	60
Atriplex portulacoides	5
Limonium vulgare	20
Plantago maritima	5
puccinellia distans	2
Triglochin maritimum	10

Location - unit number Unit 11	Grid reference TM4532852984	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh ridge of SM24 and <i>Juncus gerardii</i> . Towards the river is a matrix of <i>Spartina anglica</i> and <i>Puccinellia distans</i> with some <i>Limonium vulgare</i>		Date 31/12/2013	Quadrat Number 545
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 45%55%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	2
<i>Elytrigia atherica</i>	70
<i>Festuca rubra</i>	5
<i>Juncus gerardii</i>	25
<i>Limonium vulgare</i>	1

Location - unit number Unit 29	Grid reference TM3982448835	Region East Suffolk	Author Toby Abrehart
Start of unit 29 on eastern side of channel.		Date 27/08/2013	Quadrat Number 547
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 40%60%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	15
Limonium vulgare	10
Puccinellia maritima	40
Salicornia europaea	3
Salicornia ramosissima	10
Spartina anglica	2
Spartina maritima	2

Suaeda maritima	10
Triglochin maritimum	2

Location - unit number	Grid reference	Region	Author
Unit29	TM3982348956	East Suffolk	Toby Abrehart
Concrete impounded sea wall, covered in dominance of Elytrigia atherica.		Date	Quadrat Number
		31/12/2013	548
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		70cm20cm	
		Layers Cover	
		70%30%	
		Geology:	
		sea wall, concrete impounded	

Species list

Plant Name	Plant Density
Agrostis stolonifera	2
Atriplex patula	3
Atriplex portulacoides	3
Beta vulgaris subsp. M	3
Cerastium fontanum	1
Convolvulus arvensis	3
Elytrigia atherica	80
Senecio jacobaea	1

Seriphidium maritimu	6
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Location - unit number Unit42	Grid reference TM3939650419	Region East Suffolk	Author Toby Abrehart
Saltmarsh dominated with Atriplex portulacoides and Aster tripolium. Frequent Spartina anglica. Grazed occasionally, though not frequently. 		Date 31/12/2013	Quadrat Number 549
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,30cm,10cm	
		Layers Cover 30%30%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	25
Atriplex portulacoides	30
Limonium vulgare	10
Puccinellia maritima	10
Salicornia dolichostachya	2
Salicornia ramosissima	10
Spartina anglica	20
Spergularia media	3

Suaeda maritima	5
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Location - unit number	Grid reference	Region	Author
Unit31	TM3887445887	East Suffolk	Toby Abrehart
The island off Hollesley 		Date 18/12/2013	Quadrat Number 550
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	100

Location - unit number	Grid reference	Region	Author
Unit31	TM3891545909	East Suffolk	Toby Abrehart
Raised shingle vegetation with grassland dominated community. Lichen common throughout. Thrift and Festuca rubra main components. The grassland into Seriphidium maritimum, anmd Atriplex portulacoides, which is a narrow 3m zone before Elytrigia atherica at 4m then the salmarsh proper		Date	Quadrat Number
		31/12/2013	551
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		35cm,20cm,10cm,10mm	
		Layers Cover	
		5%30%30%20%30%	
		Geology:	
		vegetated shingle	

Species list

Plant Name	Plant Density
Aira praecox	1
Armeria maritima	20
Arrhenatherum elatius	2
Atriplex portulacoides	5
Cerastium diffusum	3
Cladonia ciliata agg	30
Elytrigia repens	4
Festuca rubra	40

Leontodon autumnalis	2
Plantago coronopus	10
Seriphidium maritimu	2
Sonchus oleraceus	1
Trifolium arvense	4

Location - unit number Unit31	Grid reference TM3894245946	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh community dominated with Elytrigia atherica and Atriplex portulacoides 		Date 18/12/2013	Quadrat Number 552
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 60%40%	
		Geology: vegetated shingle	

Species list

Plant Name	Plant Density
Atriplex portulacoides	50
Elytrigia atherica	50
Seriphidium maritimu	10

Location - unit number Unit31	Grid reference TM3854845527	Region East Suffolk	Author Toby Abrehart
On island Shrubby sea-blite with <i>Atriplex portulacoides</i>		Date 31/12/2013	Quadrat Number 554
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,20cm	
		Layers Cover 80%20%	
		Geology: vegetated shingle	
			

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	20
<i>Elytrigia atherica</i>	20
<i>Suaeda vera</i>	80

Location - unit number Unit31	Grid reference TM3859245622	Region East Suffolk	Author Toby Abrehart
The island. Raised shingle ridge covered in numerous lichen species. With one plant of Senecio inequalidis		Date 18/12/2013	Quadrat Number 555
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,20cm,10mm	
		Layers Cover 10%30%50%	
		Geology: shingle	
			

Species list

Plant Name	Plant Density
Aira praecox	4
Arrhenatherum elatius	10
Brachythecium albican	10
Cladonia furcata	10
Festuca rubra	5
Hypochaeris radicata	5
Parmelia caperata	10
Pilosella officinarum	10

Rumex acetosella	10
Sedum acre	4
Sedum anglicum	3
Senecio inaequidens	2
Silene uniflora	10

A wide-angle photograph of a coastal landscape. The foreground and middle ground are filled with dense, low-lying vegetation, possibly salt-tolerant plants like sea purslane, characterized by their small, fleshy leaves and clusters of tiny, light-colored flowers. The plants have a mix of green and yellowish-brown hues, suggesting some dryness or specific soil conditions. The terrain is very flat, extending to a straight, distant horizon line. In the far distance, a thin strip of land or a break in the horizon is visible under a clear, pale blue sky. The overall impression is of a vast, open, and somewhat desolate natural environment.

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	20
<i>Limonium vulgare</i>	20
<i>Plantago maritima</i>	20
<i>Puccinellia maritima</i>	20
<i>Salicornia pusilla</i>	2
<i>Sarcocornia perennis</i>	10
<i>Spartina maritima</i>	5
<i>Triglochin maritimum</i>	5

Location - unit number Unit42	Grid reference TM3885250311	Region East Suffolk	Author Toby Abrehart
Outer edge of the main section of marsh occasional pools of mud with a continuous stand of <i>Aster tripolium</i> and <i>Limonium vulgare</i> Pale patches within the community are <i>Spartina anglica</i>. 		Date 31/12/2013	Quadrat Number 557
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,20cm	
		Layers Cover 30%70%	
		Geology: slatmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	25
<i>Atriplex portulacoides</i>	50
<i>Limonium vulgare</i>	10
<i>Salicornia ramosissima</i>	5
<i>Suaeda maritima</i>	10
<i>Triglochin maritimum</i>	3

Location - unit number Unit42	Grid reference TM3891850412	Region East Suffolk	Author Toby Abrehart
Mid saltmarsh more open with less Aster tripolium. Some smaller areas with more dominance of Puccinellia maritima. Occasional small stands of Juncus maritimus 		Date 31/12/2013	Quadrat Number 558
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm,10cm	
		Layers Cover 20%70%10%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	20
Atriplex portulacoides	20
Limonium vulgare	20
Plantago maritima	5
Puccinellia maritima	20
Salicornia ramosissima	10
Spartina anglica	20
Spergularia media	3

Suaeda maritima	5
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Location - unit number Unit43	Grid reference TM3868751115	Region East Suffolk	Author Toby Abrehart
Area at southern end of unit. A rich mosaic of communities running through this unit. <i>Juncus maritimus</i> is the dominant one with 60% cover of this. There are several large areas of a very uniform <i>Armeria</i> community only about 2%, Within the <i>Juncus maritimus</i> are smaller areas of <i>Juncus gerardii</i>. Along the channel edges here is the <i>Elytrigia atherica</i> grassland but only along the creek margins and at higher elevations near to the rise in the land at the natural transition zone. 		Date 31/12/2013	Quadrat Number 559
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 60%30%	
		Geology: saltmarsh	

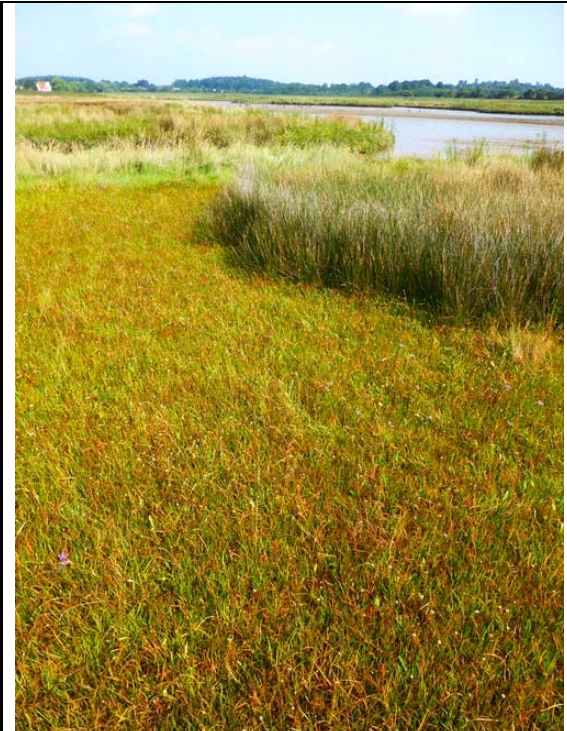
Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	3
<i>Atriplex portulacoides</i>	20
<i>Cochlearia anglica</i>	3
<i>Juncus gerardii</i>	15
<i>Juncus maritimus</i>	50
<i>Puccinellia maritima</i>	5
<i>Triglochin maritimum</i>	4

Location - unit number Unit43	Grid reference TM3869151123	Region East Suffolk	Author Toby Abrehart
This community is well distributed across this saltmarsh and on the unit to the south. It is dominated with <i>Puccinellia maritima</i> with a constant <i>Aster tripolium</i> throughout. With mixed rayed and rayless plants. 5% of this saltmarsh with this community. The creek margins have an overhanging <i>Atriplex portulacoides</i> community, often underhanging the channel face. 		Date 31/12/2013	Quadrat Number 560
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,20cm	
		Layers Cover 15%85%	
		Geology: saltmarsh	

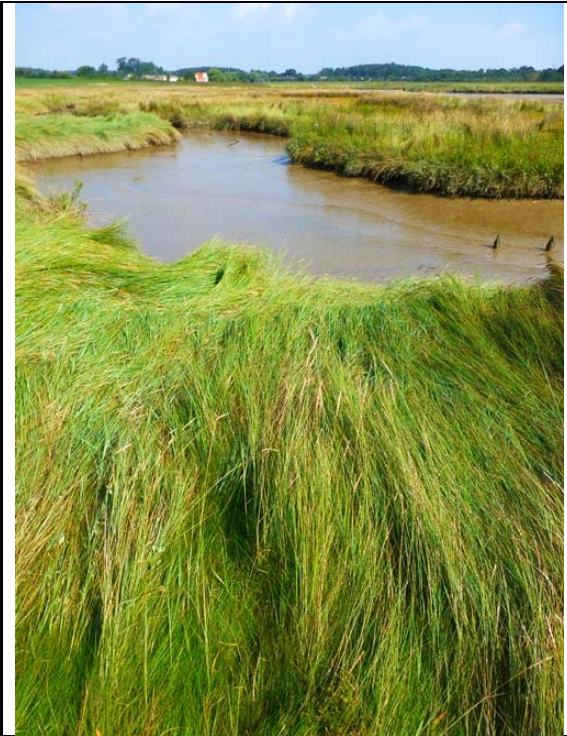
Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	15
<i>Atriplex portulacoides</i>	4
<i>Festuca rubra</i>	4
<i>Plantago maritima</i>	5
<i>Puccinellia maritima</i>	70
<i>Triglochin maritimum</i>	2

Location - unit number Unit43	Grid reference TM3870051145	Region East Suffolk	Author Toby Abrehart
Armeria dominated community. Covering 10% of this area of saltmarsh. Bodered by large areas of Juncus maritima and a 2m strip of Elytrigia atherica along the channel edge. 		Date 31/12/2013	Quadrat Number 561
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,15cm	
		Layers Cover 20%80%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	60
Aster tripolium	3
Festuca rubra	10
Juncus gerardii	2
Juncus maritimus	2
Limonium vulgare	10
Plantago maritima	10
Puccinellia maritima	2

Location - unit number	Grid reference	Region	Author
Unit43	TM3869151153	East Suffolk	Toby Abrehart
Channel edge, dominated with Elytrigia atherica, up to 3m deep along here. Bordered with Armeria, Juncus maritimus communities along this edge. 		Date	Quadrat Number
		31/12/2013	562
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		80cm,30cm,10cm	
		Layers Cover	
		70%20%10%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	5
Elytrigia atherica	75
Festuca rubra	3
Limonium vulgare	2
Plantago maritima	2
puccinellia distans	2
Puccinellia maritima	10

Spergularia rubra	2
Triglochin maritimum	2

Location - unit number Unit43	Grid reference TM3865051164	Region East Suffolk	Author Toby Abrehart
Area dominated with <i>Juncus gerardii</i>. This community is well distributed through this site. Always small stands of fairly pure habitat Surrounded to the south by SM24		Date 31/12/2013	Quadrat Number 563
		Altitude 0m	Soil Depth
		Stand Area 5x5m	Sample Area 4
		Layers mean height 70cm,50cm,30cm	
		Layers Cover 5%40%55%	
		Geology: saltmarsh	
			

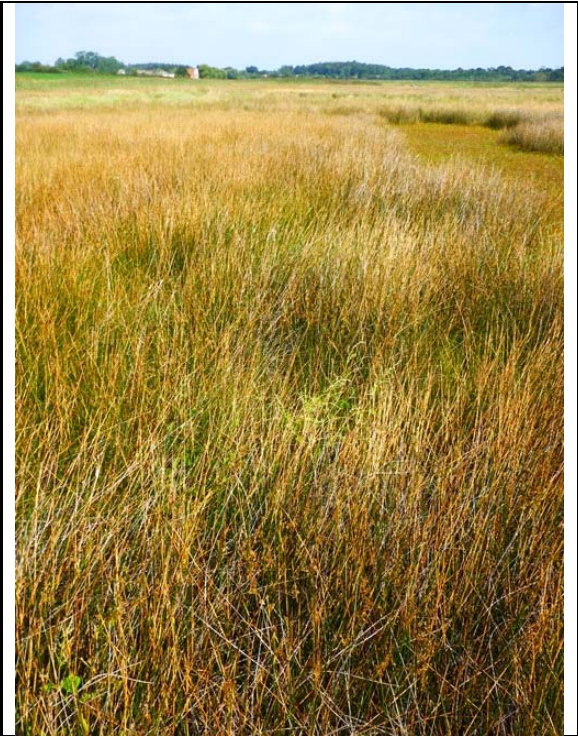
Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	4
<i>Atriplex portulacoides</i>	2
<i>Juncus gerardii</i>	80
<i>Juncus maritimus</i>	4
<i>Puccinellia maritima</i>	5
<i>Triglochin maritimum</i>	2

Location - unit number Unit43	Grid reference TM3865451193	Region East Suffolk	Author Toby Abrehart
Area of Armeria saltmarsh, with a small area of slightly more Limonium vulgare dominted community in small sections and around the edges. Juncus maritrimus borders on all sides.		Date 31/12/2013	Quadrat Number 564
		Altitude 0m	Soil Depth
		Stand Area 15x25m	Sample Area 4
		Layers mean height 20cm,5cm	
		Layers Cover 40%60%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Armeria maritima	50
Aster tripolium	1
Limonium vulgare	30
Plantago maritima	20

Location - unit number Unit43	Grid reference TM3862851207	Region East Suffolk	Author Toby Abrehart
Juncus maritimus community. Wet underfoot with very limited other species, occasional Atriplex portulacoides and Atriplex prostrata. Small areas at slightly higher elevations where the additional plants are Triglochin maritima and more Atriplex portulacoides. 		Date 31/12/2013	Quadrat Number 565
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	2
Atriplex prostrata	3
Juncus maritimus	95

Location - unit number Unit43	Grid reference TM3859751190	Region East Suffolk	Author Toby Abrehart
Juncus gerardii dominated communtiy with some Glaux maritima. Nearby ther are an area of encroaching Phragmites australis, run-off from pig field... Creek has dominance of Elytrigia atherica and Glaux maritima		Date 31/12/2013	Quadrat Number 566
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,5cm	
		Layers Cover 80%20%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	2
Atriplex prostrata	2
Glaux maritima	5
Juncus gerardii	80
Limonium vulgare	2
Plantago maritima	10

Location - unit number Unit43	Grid reference TM3858351184	Region East Suffolk	Author Toby Abrehart
Area of Phragmites, developed through the saltmarsh communities of being reduced by coastal squeeze, not obvious either way. 		Date 31/12/2013	Quadrat Number 567
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,60cm,30cm	
		Layers Cover 40%50%10%	
		Geology: upper saltmarsh	

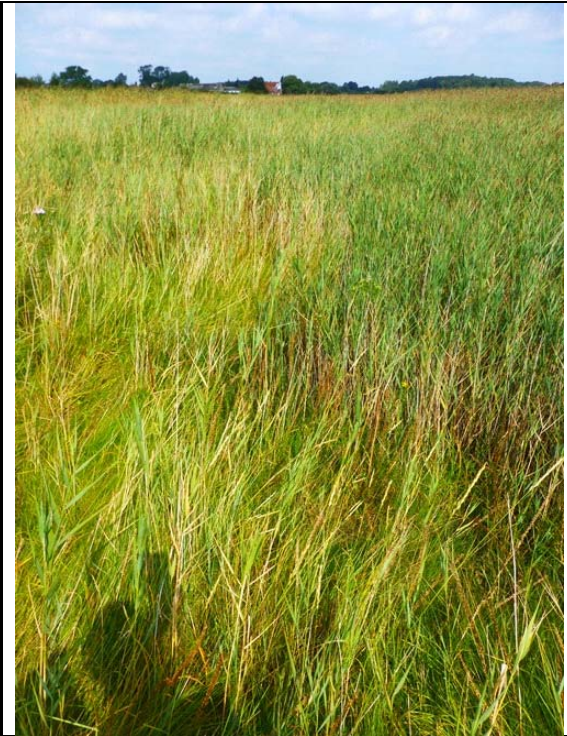
Species list

Plant Name	Plant Density
Atriplex prostrata	4
Glaux maritima	3
Juncus gerardii	30
Juncus maritimus	10
Phragmites australis	50
Triglochin maritimum	3

Location - unit number Unit43	Grid reference TM3857151220	Region East Suffolk	Author Toby Abrehart
Elytrigia atherica grassland with scattered areas of Juncus maritimus. 10m from field edge where MG1 grassland with Sonchus arvensis indicated upper limit of saline incursion. 		Date 31/12/2013	Quadrat Number 568
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,40cm	
		Layers Cover 70%30%	
		Geology: upper saltmarsh	

Species list

Plant Name	Plant Density
Elytrigia atherica	80
Festuca rubra	2
Glaux maritima	8
Juncus gerardii	5
Juncus maritimus	5

Location - unit number Unit44	Grid reference TM3861751381	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh community beyond the reedbed S4 and before the MG1 grasslands Puccinellia maritima, Triglochin maritima, Phragmites australis and Glaux maritima 		Date 31/12/2013	Quadrat Number 569
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 80cm,30cm	
		Layers Cover 25%75%	
		Geology: upper saltmarsh	

Species list

Plant Name	Plant Density
Cochlearia anglica	1
Festuca rubra	5
Glaux maritima	15
Phragmites australis	10
Plantago maritima	2
Puccinellia maritima	60
Triglochin maritimum	10

Location - unit number Unit44	Grid reference TM3860951425	Region East Suffolk	Author Toby Abrehart
Area of dry acid grassland with scattered Phragmites all round the margins. Festuca dominated grassland 		Date 29/08/2013	Quadrat Number 570
		Altitude 1m	Soil Depth
		Stand Area 10x15m	Sample Area 4
		Layers mean height 80cm,30cm	
		Layers Cover 25%75%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Agrostis canina	10
Cirsium vulgare	2
Conyza canadensis	1
Elytrigia atherica	10
Festuca rubra	70
Juncus maritimus	2
Lotus tenuis	2
Phragmites australis	10

Poa trivialis	1
Senecio jacobaea	1
Vicia hirsuta	4

Location - unit number Unit44	Grid reference TM3865651427	Region East Suffolk	Author Toby Abrehart
Elytrigia strip of grassland heading out to the boat mooring. Bordered with S4 reedbeds to the south and Juncus gerardii to the north before the small channel. 		Date 31/12/2013	Quadrat Number 572
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,40cm,20cm	
		Layers Cover 60%25%15%	
		Geology: upper saltmarsh	

Species list

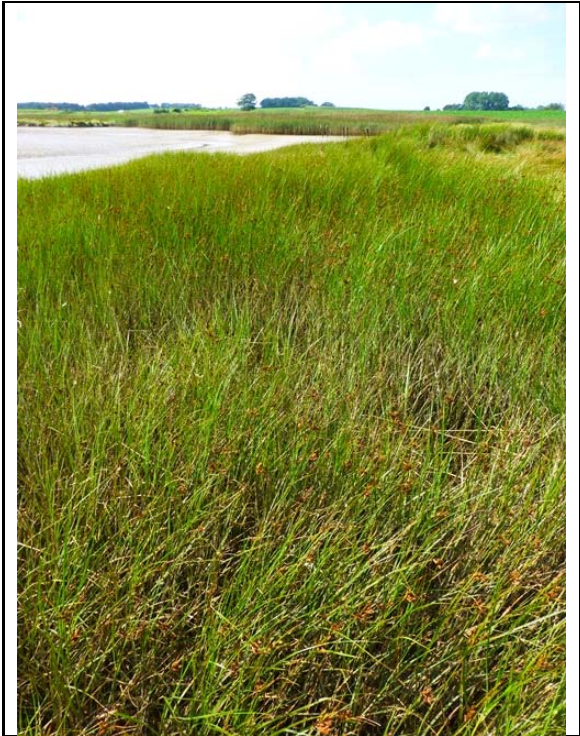
Plant Name	Plant Density
Elytrigia atherica	80
Festuca rubra	3
Seriphidium maritimu	2

Location - unit number	Grid reference	Region	Author
Unit44	TM3867751423	East Suffolk	Toby Abrehart
Outer saltmarsh next to the main river channel near to the moored boats. A few small areas of Armeria saltmarsh 1% of the saltmarsh here. Backed with Elytrigia atherica and Glaux maritima and with larger areas of Juncus maritimus Very small amounts of salicornia here 		Date	Quadrat Number
		31/12/2013	573
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
		4x11m	4
		Layers mean height	
		20cm,10cm	
		Layers Cover	
		15%85%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	40
Aster tripolium	2
Festuca rubra	2
Glaux maritima	2
Juncus maritimus	2
Limonium vulgare	5
Plantago maritima	40
Salicornia ramosissima	2

Spergularia media	2
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Location - unit number	Grid reference	Region	Author
Unit44	TM3874351429	East Suffolk	Toby Abrehart
Edge of exposed mud. Community dominated with <i>Bolboscheonus maritimus</i> . Leads onto <i>Elytrigia atherica</i> and <i>Juncus gerardii</i>		Date	Quadrat Number
		31/12/2013	574
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1.2m,0mm	
		Layers Cover	
		70%30%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	30
<i>Bolboschoenus mariti</i>	70

Location - unit number Unit44	Grid reference TM3874651443	Region East Suffolk	Author Toby Abrehart
Area behind S21 and before S4. Mosaic of Juncus maritimus, Bolboschoenus maritimus, Elytrigia atherica, Juncus gerardii and Puccinellia maritima.		Date 31/12/2013	Quadrat Number 575
		Altitude 1m	Soil Depth
		Stand Area 30x15m	Sample Area 4
		Layers mean height 70cm,30cm,10cm	
		Layers Cover 20%70%10%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	3
Bolboschoenus mariti	2
Festuca rubra	30
Glaux maritima	30
Juncus gerardii	20
Puccinellia maritima	10
Triglochin maritimum	3

Location - unit number Unit44	Grid reference TM3874651477	Region East Suffolk	Author Toby Abrehart
Small area of <i>Juncus gerardii</i> dominated community within the S4 reedbeds here. All the vegetation is lying down, Red Deer rest here at night. Occasional <i>Triglochin maritima</i> and <i>Aster tripolium</i> nearby. 		Date 31/12/2013	Quadrat Number 576
		Altitude 1m	Soil Depth
		Stand Area 20x20m	Sample Area 4
		Layers mean height 30cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Apium graveolens</i>	5
<i>Atriplex prostrata</i>	1
<i>Glaux maritima</i>	20
<i>Juncus gerardii</i>	75

Location - unit number Unit44	Grid reference TM3868051439	Region East Suffolk	Author Toby Abrehart
Area of mosaic community again, Juncus maritimus dominated though.		Date 30/08/2013	Quadrat Number 577
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 50%50%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Armeria maritima	10
Aster tripolium	2
Atriplex portulacoides	4
Enteromorpha intestin	7
Juncus maritimus	50
Limonium vulgare	10
Plantago maritima	5
Spartina anglica	2

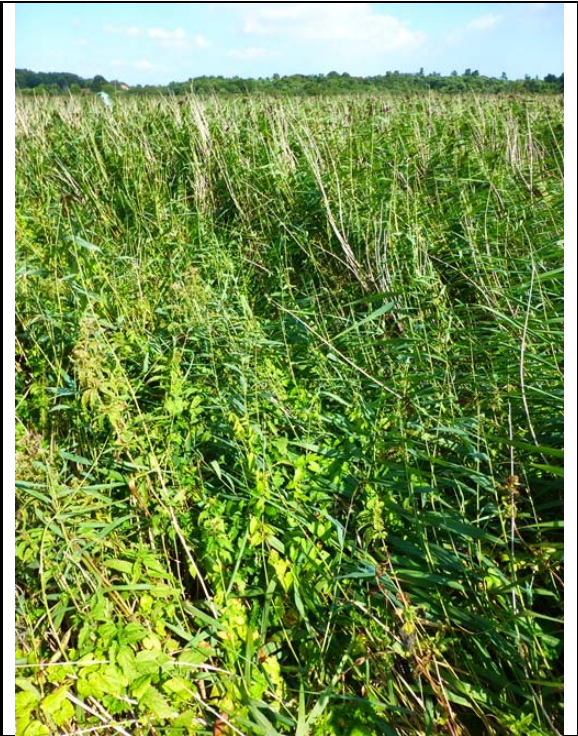
Triglochin maritimum	10
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Location - unit number Unit 44	Grid reference TM3860351585	Region East Suffolk	Author Toby Abrehart
Path to the saltmarsh Above the reedbeds and before the acid grassland communities. 		Date 29/08/2013	Quadrat Number 578
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,40cm,15cm	
		Layers Cover 20%60%20%	
		Geology: upper saltmarsh	

Species list

Plant Name	Plant Density
Agrostis canina	30
Cirsium arvense	3
Festuca rubra	40
Holcus lanatus	2
Lactuca virosa	2
Lotus tenuis	2
Oenanthe lachenalii	1
Phragmites australis	20

Potentilla anserina	15
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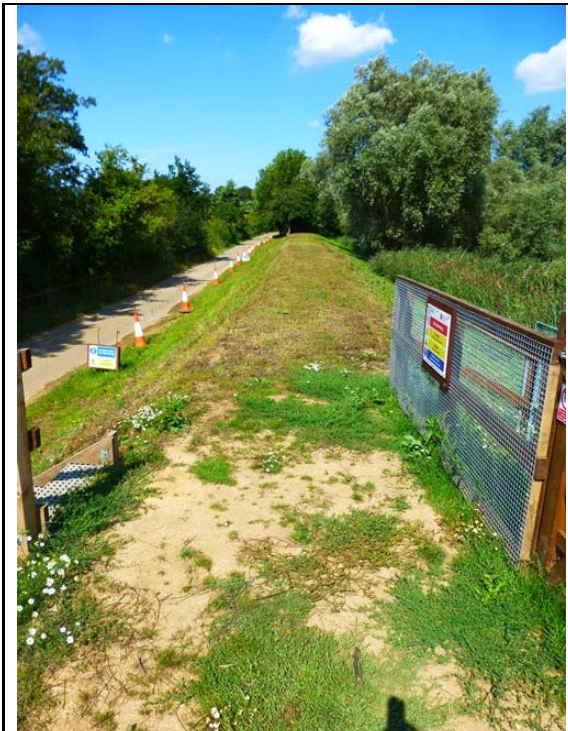
Location - unit number Unit44	Grid reference TM3858051670	Region East Suffolk	Author Toby Abrehart
Edge of the S4 reedbeds 		Date 29/08/2013	Quadrat Number 579
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.8m	
		Layers Cover 100%	
		Geology: Marsh	

Species list

Plant Name	Plant Density
Calystegia sepium	10
Eupatorium cannabin	10
Phragmites australis	75
Urtica dioica	5

Plant Name	Plant Density
<i>Angelica sylvestris</i>	1
<i>Arrhenatherum elatius</i>	1
<i>Berula erecta</i>	2
<i>Elytrigia atherica</i>	2
<i>Epilobium palustre</i>	1
<i>Galium palustre</i>	2
<i>Phalaris arundinacea</i>	2
<i>Phragmites australis</i>	80

Rumex conglomeratus	2
Rumex hydrolapathu	2

Location - unit number	Grid reference	Region	Author
Unit 44	TM3860551862	East Suffolk	Toby Abrehart
Sea wall. Repaired by EA in 2012. New soil with open communities. Recently cut 		Date	Quadrat Number
		29/08/2013	581
		Altitude	Soil Depth
		3m	
		Stand Area	Sample Area
			25
Layers mean height			
10cm			
Layers Cover			
100%			
Geology:			
clay sea wall			

Species list

Plant Name	Plant Density
Amsinckia micrantha	1
Arrhenatherum elatius	20
Chenopodium album	2
Cirsium vulgare	2
Coronopus squamatus	2
Epilobium ciliatum	2
Matricaria discoidea	2
Medicago lupulina	3

Oenothera glazioviana	2
Papaver rhoeas	2
Persicaria hydropiper	2
Phleum bertolonii	2
Phragmites australis	2
Picris echioides	3
Plantago lanceolata	3
Poa annua	5

Location - unit number Unit 44	Grid reference TM3860151895	Region East Suffolk	Author Toby Abrehart
Base of sea wall. Against the reedbeds Polypogon monspeliensis in this one spot Along from here Salix alba is a dominant tree. 		Date 31/12/2013	Quadrat Number 582
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.8m<20cm	
		Layers Cover 90%10%	
		Geology: marsh	

Species list

Plant Name	Plant Density
Atriplex prostrata	2
Cynosurus cristatus	2
Epilobium hirsutum	1
Epilobium obscurum	1
Galium aparine	2
Medicago sativa subsp	1
Mentha aquatica	1
Phragmites australis	90

Polypogon monspeliensis	2
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A photograph showing a dense forest scene. In the foreground, there is a thick carpet of green grass and various small plants, including some white flowers. Several large, mature trees with thick, gnarled trunks and dense green foliage dominate the background. The lighting suggests a bright, sunny day, with sunlight filtering through the leaves.

Urtica dioica	2
Vicia cracca	3

Location - unit number	Grid reference	Region	Author
Unit44	TM3859951947	East Suffolk	Toby Abrehart
Salix alba woodland at edge of marsh. Vertigo moulinsiana found. 1 juv and 1 adult. Margin of roadside dominated with Prunus spinosa, Prunus sp, Ash, Salix cinerea, Crataegus monogyna odd Quercus robur 		Date	Quadrat Number
		18/12/2013	584
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			100
		Layers mean height	
		8m,2m,30cm	
		Layers Cover	
		80%70%20%	
		Geology:	
		marsh	

Species list

Plant Name	Plant Density
Angelica sylvestris	2
Calamagrostis canesce	2
Caltha palustris	2
Humulus lupulus	3
Iris pseudacorus	40
Lycopus europaeus	3
Phragmites australis	5
Solanum dulcamara	3

Urtica dioica	3
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Location - unit number Unit42	Grid reference TM3912150643	Region East Suffolk	Author Toby Abrehart
Saltmarsh, grazed. Though only lightly so this far out. Puccinellia maritima and Festuca rubra dominated community. This follows the edge of the channels across this section of the site.		Date 31/12/2013	Quadrat Number 585
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm,15cm	
		Layers Cover 3%45%52%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	10
Festuca rubra	40
Limonium vulgare	5
Plantago maritima	10
Puccinellia maritima	20

Location - unit number	Grid reference	Region	Author
Unit42	TM3911350655	East Suffolk	Toby Abrehart
An area of lower saltmarsh more plant less grass dominated. Surrounded by patches of Juncus maritimus and more Festuca dominated grasslands. Very lightly poached here. Occ Spartina maritima 55% correlation		Date	Quadrat Number
		18/12/2013	586
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,20cm,10cm	
		Layers Cover	
		5%20%75%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	30
Aster tripolium	5
Festuca rubra	5
Limonium vulgare	20
Plantago maritima	25
Puccinellia maritima	30
Suaeda maritima	2

Location - unit number	Grid reference	Region	Author
Unit42	TM3910950664	East Suffolk	Toby Abrehart
Large areas of Juncus maritimus at the upper saltmarsh edge.		Date 29/08/2013	Quadrat Number 587
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,20cm	
		Layers Cover 60%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	50
Festuca rubra	2
Juncus maritimus	60
Limonium vulgare	3

[illegible]

Plant Name	Plant Density
<i>Limonium vulgare</i>	4
<i>Puccinellia maritima</i>	6
<i>Spartina anglica</i>	90

Location - unit number Unit42	Grid reference TM3909450684	Region East Suffolk	Author Toby Abrehart
Grazed saltmarsh with some Juncus maritimus to the south and bordered at the upper saltmarsh limit with Suaeda maritima and Juncus gerardii. 		Date 18/12/2013	Quadrat Number 589
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm,10cm	
		Layers Cover 10%40%50%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	20
Aster tripolium	10
Limonium vulgare	20
Plantago maritima	10
Puccinellia maritima	30
Salicornia dolichostac	2
Salicornia europaea	4
Spartina maritima	2

Suaeda maritima	3
Triglochin maritimum	3

Location - unit number	Grid reference	Region	Author
Unit42	TM3906750699	East Suffolk	Toby Abrehart
Juncus gerardii lawn 1m band of Sueada maritima and Juncus gerardii 2m band of Juncus gerardii and Glaux maritima 1m band of Lotus tenuis then final band 2m wide of Elytrigia atherica 		Date	Quadrat Number
		29/08/2013	590
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,40cm,15cm	
		Layers Cover	
		5%50%45%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	2
Festuca rubra	2
Glaux maritima	35
Juncus gerardii	60
Lotus tenuis	2
Plantago maritima	2
Suaeda maritima	5

[illegible]

Plant Name	Plant Density
<i>Agrostis stolonifera</i>	10
<i>Elytrigia atherica</i>	10
<i>Festuca rubra</i>	4
<i>Lotus tenuis</i>	70
<i>Plantago lanceolata</i>	3
<i>Trifolium pratense</i>	3

Location - unit number Unit 43	Grid reference TM3895650759	Region East Suffolk	Author Toby Abrehart
Spartina		Date 31/12/2013	Quadrat Number 592
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 80cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

[illegible]

Plant Name	Plant Density
<i>Achillea millefolium</i>	2
<i>Agrostis canina</i>	10
<i>Agrostis stolonifera</i>	10
<i>Artemisia vulgaris</i>	2
<i>Elytrigia atherica</i>	10
<i>Festuca rubra</i>	30
<i>Hypochaeris radicata</i>	2
<i>Leontodon hispidus</i>	2

Lotus tenuis	30
Plantago lanceolata	2
Rhinanthus minor	10

Location - unit number	Grid reference	Region	Author
Unit42	TM3895150885	East Suffolk	Toby Abrehart
Area of upper saltmarsh above Lotus tenuis and Juncus gerardii With Sonchus arvensis and Oenanthe lachenalii 		Date	Quadrat Number
		31/12/2013	594
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1m,50cm,20cm	
		Layers Cover	
		5%40%55%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Agrostis stolonifera	10
Elytrigia atherica	30
Glaux maritima	10
Lotus tenuis	10
Oenanthe lachenalii	20
Rumex crispus	2
Sonchus arvensis	20

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
1	John Doe	Medical	Open	2023-01-01	10:00	Room 101	John Doe, 45 years old, male, presented with chest pain and shortness of breath. ECG showed ST-segment depression. Initial treatment with aspirin and nitroglycerin was administered. Patient is stable and will be monitored.	ECG: ST-segment depression. Vitals: BP 120/80, HR 90, RR 18, SpO2 98%.	Dr. Smith
2	Jane Smith	Medical	Closed	2023-01-02	14:30	Room 202	Jane Smith, 60 years old, female, presented with abdominal pain and nausea. Ultrasound showed gallstones. Patient was discharged with pain medication and instructions.	Ultrasound: Gallstones. Vitals: BP 110/70, HR 75, RR 16, SpO2 96%.	Dr. Jones
3	Michael Brown	Medical	Open	2023-01-03	08:15	Room 303	Michael Brown, 30 years old, male, presented with a laceration on his right forearm. Wound was cleaned and sutured. Patient is stable and will be monitored.	Wound: 2cm laceration on right forearm. Vitals: BP 130/90, HR 100, RR 20, SpO2 99%.	Dr. Lee
4	Sarah White	Medical	Closed	2023-01-04	11:45	Room 404	Sarah White, 55 years old, female, presented with a headache and dizziness. Blood pressure was elevated. Patient was given a headache tablet and discharged.	Headache: Moderate. Vitals: BP 150/100, HR 85, RR 18, SpO2 97%.	Dr. Kim
5	David Green	Medical	Open	2023-01-05	09:30	Room 505	David Green, 70 years old, male, presented with confusion and slurred speech. CT scan showed a small subarachnoid hemorrhage. Patient is being monitored in the ICU.	CT Scan: Small subarachnoid hemorrhage. Vitals: BP 140/90, HR 110, RR 22, SpO2 98%.	Dr. Wilson
6	Emily Black	Medical	Closed	2023-01-06	13:00	Room 606	Emily Black, 25 years old, female, presented with a skin rash. Rash was treated with topical steroids. Patient is stable and will be monitored.	Rash: Red, itchy, on upper torso. Vitals: BP 120/80, HR 70, RR 16, SpO2 99%.	Dr. Davis
7	Robert Taylor	Medical	Open	2023-01-07	10:45	Room 707	Robert Taylor, 50 years old, male, presented with a fever and cough. Chest X-ray showed pneumonia. Patient is being treated with antibiotics and will be monitored.	Chest X-ray: Pneumonia. Vitals: BP 130/90, HR 100, RR 20, SpO2 95%.	Dr. Miller
8	Lisa Anderson	Medical	Closed	2023-01-08	15:15	Room 808	Lisa Anderson, 40 years old, female, presented with a urinary tract infection. Urine culture confirmed the diagnosis. Patient was given antibiotics and discharged.	Urine Culture: UTI. Vitals: BP 120/80, HR 75, RR 16, SpO2 98%.	Dr. Garcia
9	James Wilson	Medical	Open	2023-01-09	08:00	Room 909	James Wilson, 65 years old, male, presented with a fall and injury to his right leg. X-ray showed a fracture. Patient is being treated with pain medication and will be monitored.	X-ray: Fracture of right leg. Vitals: BP 140/90, HR 110, RR 22, SpO2 98%.	Dr. Brown
10	Amanda Clark	Medical	Closed	2023-01-10	12:30	Room 1010	Amanda Clark, 35 years old, female, presented with a sore throat and difficulty swallowing. Throat exam showed tonsillitis. Patient was given antibiotics and discharged.	Throat Exam: Tonsillitis. Vitals: BP 120/80, HR 75, RR 16, SpO2 99%.	Dr. White

Plant Name	Plant Density
<i>Agrostis stolonifera</i>	3
<i>Elytrigia atherica</i>	4
<i>Festuca rubra</i>	2
<i>Oenanthe lachenalii</i>	10
<i>Potentilla anserina</i>	80
<i>Sonchus arvensis</i>	4

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Plantago major	10
Poa annua	30
Polygonum aviculare	20
Potentilla anserina	3
Sagina apetala	3
Trifolium striatum	2

Location - unit number Unit42	Grid reference TM3884351404	Region East Suffolk	Author Toby Abrehart
Area next to the increasing Phragmites australis belt. Dominated with Juncus gerardii and some Festuca rubra 		Date 31/12/2013	Quadrat Number 598
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,40cm,20cm	
		Layers Cover 5%40%55%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	2
Bare mud	5
Enteromorpha intestin	5
Festuca rubra	2
Glaux maritima	10
Juncus gerardii	50
Phragmites australis	3
Plantago maritima	20

Location - unit number Unit42	Grid reference TM3887951396	Region East Suffolk	Author Toby Abrehart
Last area of saltmarsh before unit 44. No Limonium vulgare here upper saltmarsh species dominating. Heavy encroachment of the reeds in this section. Small mounds within the community with Juncus gerardii dominance. The rest of this habitat is Juncus maritimus dominated with triglochin maritima. 		Date 31/12/2013	Quadrat Number 599
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,40cm,15cm,0mm	
		Layers Cover 35%30%15%10%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	3
Bare mud	15
Glaux maritima	5
Juncus gerardii	3
Juncus maritimus	40
Puccinellia maritima	2
Triglochin maritimum	25

Location - unit number Unit44	Grid reference TM3890451413	Region East Suffolk	Author Toby Abrehart
Elytrigia dominated habitat. Ungrazed dense sward. Potentilla anserina and Sonchus arvensis common in this community. This leads into the Juncus/Elytrigia matrix 		Date 31/12/2013	Quadrat Number 600
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,1m,40cm	
		Layers Cover 5%20%75%	
		Geology: upper saltmarsh	

Species list

Plant Name	Plant Density
Elytrigia atherica	80
Festuca rubra	3
Oenanthe lachenalii	3
Potentilla anserina	10
Sonchus arvensis	10

Location - unit number Unit 44	Grid reference TM3888751427	Region East Suffolk	Author Toby Abrehart
Area of dense ungrazed <i>Juncus maritimus</i> , with encroaching <i>Phragmites australis</i>		Date 31/12/2013	Quadrat Number 601
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,80cm,40cm	
		Layers Cover 5%40%55%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Atriplex prostrata</i>	5
<i>Elytrigia atherica</i>	5
<i>Juncus maritimus</i>	80
<i>Phragmites australis</i>	5
<i>Sonchus arvensis</i>	5

Location - unit number Unit44	Grid reference TM3885751520	Region East Suffolk	Author Toby Abrehart
Area of Festuca tussock grasslands, Being encroached with Phragmites, perfect Vertigo angustior habitat with numerous animals found in brief search. Population at risk due to coastal squeeze and encroaching Phragmites. Could do with light grazing. 		Date 31/12/2013	Quadrat Number 602
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.3m,1m,50cm	
		Layers Cover 10%30%60%	
		Geology: sandling	

Species list

Plant Name	Plant Density
Cirsium arvense	9
Festuca rubra	60
Galium aparine	1
Phragmites australis	20
Sonchus arvensis	10

Location - unit number Unit 44	Grid reference TM3886551569	Region East Suffolk	Author Toby Abrehart
Area of dry grassland - MG1 some <i>Urtica dioica</i> nearby and <i>Angelica</i> near <i>Phragmites</i> edge. <i>Agrostis canina</i>, <i>Vicia cracca</i>, 		Date 31/12/2013	Quadrat Number 603
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.1m,90cm,25cm	
		Layers Cover 20%40%40%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
<i>Achillea millefolium</i>	2
<i>Arrhenatherum elatius</i>	45
<i>Cirsium arvense</i>	2
<i>Convolvulus arvensis</i>	3
<i>Festuca rubra</i>	40
<i>Galium verum</i>	4
<i>Holcus mollis</i>	2
<i>Torilis japonica</i>	2

<i>Urtica dioica</i>	3
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Location - unit number Unit44	Grid reference TM3882851708	Region East Suffolk	Author Toby Abrehart
Area of reducing saltmarsh within the encroaching <i>Phragmites australis</i>. Pure stands without phragmites only 30x23m. Around this is a ten metre mosaic before the <i>Phragmites/Atriplex</i> community dominates		Date 31/12/2013	Quadrat Number 604
		Altitude 0m	Soil Depth
		Stand Area 30x23m	Sample Area 4
		Layers mean height 30cm,15cm	
		Layers Cover 5%95%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Juncus gerardii</i>	40
<i>Limonium vulgare</i>	2
<i>Plantago maritima</i>	40

Location - unit number Unit44	Grid reference TM3882951718	Region East Suffolk	Author Toby Abrehart
Area dominated with Juncus maritima, covering 35% of this saltmarsh. 8 small open pools only 3 with water. Full of Chironomid larvae and egg laying Common Darter. 		Date 30/08/2013	Quadrat Number 605
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 60%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex prostrata	2
juncus gerardii	30
Juncus maritimus	60
Triglochin maritimum	30

Location - unit number Unit44	Grid reference TM3884951773	Region East Suffolk	Author Toby Abrehart
Area of saltmarsh dominated with <i>Juncus gerardii</i> , <i>Apium graveolens</i> and <i>Oenanthe lachenalii</i> .		Date 30/08/2013	Quadrat Number 606
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,70cm,30cm,0mm	
		Layers Cover 20%30%40%10%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Apium graveolens</i>	20
<i>Atriplex prostrata</i>	10
<i>Bolboschoenus mariti</i>	4
<i>Glaux maritima</i>	10
<i>Juncus gerardii</i>	35
<i>Oenanthe lachenalii</i>	10
<i>Phragmites australis</i>	20
<i>Plantago maritima</i>	3

Location - unit number Unit44	Grid reference TM3880251944	Region East Suffolk	Author Toby Abrehart
In the phragmites beds. Still light reeds with abundant mixed flora 		Date 30/08/2013	Quadrat Number 607
		Altitude 0.5m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 2.1m,1.2m,40cm	
		Layers Cover 40%20%40%	
		Geology: marsh	

Species list

Plant Name	Plant Density
Agrostis stolonifera	30
Althaea officinalis	10
Apium graveolens	4
Aster tripolium	2
Atriplex prostrata	2
Bolboschoenus mariti	4
Eupatorium cannabin	3
Galium palustre	2

Iris pseudacorus	2
Mentha aquatica	20
Phragmites australis	40

Location - unit number Unit44	Grid reference TM3880151958	Region East Suffolk	Author Toby Abrehart
Phragmites dominated swamp, with rich understorey.		Date 30/08/2013	Quadrat Number 608
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 2m,1m,40cm	
		Layers Cover 60%30%20%	
		Geology: marsh	
			

Species list

Plant Name	Plant Density
Agrostis stolonifera	3
Anagallis tenella	3
Apium graveolens	4
Aster tripolium	2
Berula erecta	4
Calystegia silvatica	2
Carex binervis	4
Eupatorium cannabin	4

Galium palustre	2
Iris pseudacorus	4
Juncus subnodulosus	4
Lycopus europaeus	10
Mentha aquatica	10
Phragmites australis	60
Samolus valerandi	4

Location - unit number Unit44	Grid reference TM3874852021	Region East Suffolk	Author Toby Abrehart
Tall herb fen. Must have been grazed and managed at one time. Encroaching Phragmites australis into the Juncus subnodulosus 		Date 30/08/2013	Quadrat Number 609
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.6m,1m,40cm	
		Layers Cover 20%60%30%	
		Geology: marsh	

Species list

Plant Name	Plant Density
Angelica sylvestris	3
Eupatorium cannabin	25
Galium palustre	3
Iris pseudacorus	2
Juncus subnodulosus	40
Mentha aquatica	5
Oenanthe lachenalii	2
Phragmites australis	10

Ranunculus acris	2
Vicia cracca	3

Location - unit number	Grid reference	Region	Author
Unit44	TM3868952011	East Suffolk	Toby Abrehart
Area of Juncus subnodulus. Excellent transition zone form saltmarsh into this community. Maybe only spot in Suffolk where there is such a natural transition zone.		Date	Quadrat Number
		30/08/2013	610
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			25
		Layers mean height	
		1.6m,1m,80cm,40cm,10mm	
		Layers Cover	
		5%10%60%40%30%	
		Geology:	
		marsh	

Species list

Plant Name	Plant Density
Angelica sylvestris	3
Caltha palustris	2
Cirsium palustre	2
Equisetum palustre	3
Eupatorium cannabin	10
Filipendula ulmaria	2
Galium palustre	10
Iris pseudacorus	5

Juncus subnodulosus	70
Lotus pedunculatus	3
Mentha aquatica	3
Molinia caerulea	5
Oenanthe lachenalii	10
Pellia endiviifolia	10
Phragmites australis	10
Rhytidiadelphus squar	20

Location - unit number Unit44	Grid reference TM3865952000	Region East Suffolk	Author Toby Abrehart
Inbetween Juncus subnodulosus marshes. Low area with permanent water. Different flora with Anagallis tenella and Carex binervis 		Date 31/12/2013	Quadrat Number 611
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.8m,60cm,10cm	
		Layers Cover 60%40%30%	
		Geology: marsh	

Species list

Plant Name	Plant Density
Anagallis tenella	3
Carex binervis	10
Eupatorium cannabin	10
Galium palustre	2
Juncus acutiflorus	2
Juncus subnodulosus	5
Lythrum salicaria	2
Mentha aquatica	15

Oenanthe lachenalii	3
Phragmites australis	70
Pulicaria dysenterica	3
Samolus valerandi	2

Location - unit number Unit44	Grid reference TM3863751987	Region East Suffolk	Author Toby Abrehart
Yellow loostrife dominated tall herb fen. 		Date 30/08/2013	Quadrat Number 612
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,1m,50cm	
		Layers Cover 5%70%40%	
		Geology: marsh	

Species list

Plant Name	Plant Density
Angelica sylvestris	5
Equisetum palustre	3
Filipendula ulmaria	5
Iris pseudacorus	10
Juncus subnodulosus	30
Lychnis flos-cuculi	2
Lysimachia vulgaris	30
Lythrum salicaria	5

Mentha aquatica	3
Phragmites australis	10
Ranunculus acris	2
Rhytidadelphus squar	20
Scutellaria galericulata	2
Valeriana officinalis	3
Vicia cracca	2

Location - unit number	Grid reference	Region	Author
Unit 44	TM3863551926	East Suffolk	Toby Abrehart
Poor tall herb fen, dominated with <i>Phragmites australis</i> <i>Calamagrostis canescens</i> nearby		Date	Quadrat Number
		30/08/2013	613
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm	
		Layers Cover	
		100%	
		Geology:	
		marsh	

Species list

Plant Name	Plant Density
<i>Eupatorium cannabin</i>	5
<i>Phragmites australis</i>	95

Location - unit number Unit 44	Grid reference TM3868752052	Region East Suffolk	Author Toby Abrehart
Molinia fen 42% correlation		Date 18/12/2013	Quadrat Number 614
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.6m,80cm,20cm	
		Layers Cover 10%70%40%	
		Geology: marsh	
			

Species list

Molinia caerulea	70
Phragmites australis	10
Potentilla anserina	3
Potentilla erecta	2
Ranunculus flammula	1
Vicia cracca	3

Location - unit number	Grid reference	Region	Author
Unit 44	TM3870552095	East Suffolk	Toby Abrehart
Alder carr willow swamp woodland Followed by rank bramble and nettle beds until the reeds the other side.		Date	Quadrat Number
		31/12/2013	615
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			100
		Layers mean height	
		8m,6m,1.2m,60cm,10cm	
		Layers Cover	
		50%50%20%60%20%	
		Geology:	
		peaty carr	



Species list

Plant Name	Plant Density
Alnus glutinosa	50
Angelica sylvestris	4
Arrhenatherum elatius	2
Epilobium ciliatum	1
Equisetum palustre	2
Eupatorium cannabin	4
Glechoma hederacea	2
Glyceria fluitans	2

Hedera helix	3
Holcus lanatus	2
Lonicera periclymenu	2
Mentha aquatica	20
Phragmites australis	30
Primula vulgaris	2
Ranunculus acris	2
Rubus sp	4

Location - unit number Unit44	Grid reference TM3881052173	Region East Suffolk	Author Toby Abrehart
Area of grazed marshes with encroaching Phragmites on the southern edge Southern marsh orchids at TM3882952188 and Hypericum marsh one same spot 		Date 18/12/2013	Quadrat Number 616
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,20cm	
		Layers Cover 60%40%	
		Geology: marsh on sand	

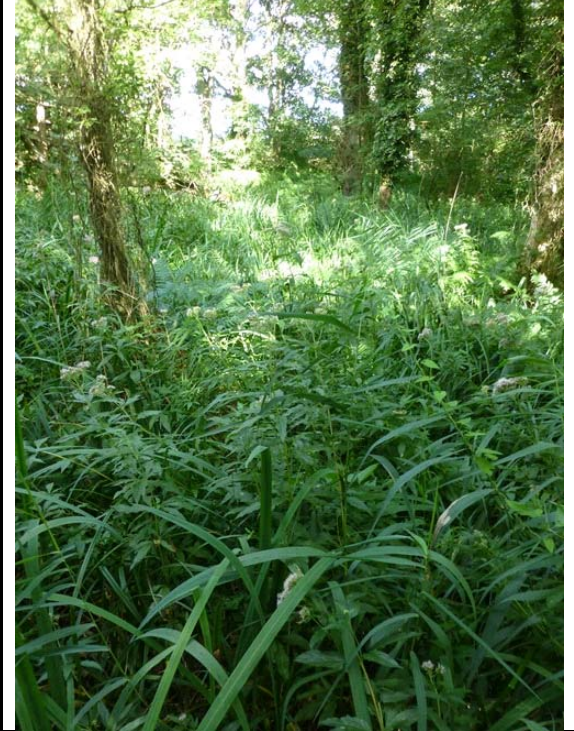
Species list

Plant Name	Plant Density
Anthoxanthum odorat	3
Calystegia silvatica	2
Carex hirta	5
Cirsium arvense	2
Dactylorhiza incarnata	3
Equisetum arvense	2
Holcus lanatus	2
Juncus acutiflorus	2

Lolium multiflorum	2
Lotus pedunculatus	40
Mentha aquatica	2
Phleum pratense	30
Potentilla anserina	3
Rhinanthus minor	3
Trifolium pratense	10

Plant Name	Plant Density
<i>Acer pseudoplatanus</i>	5
<i>Alnus glutinosa</i>	40
<i>Angelica sylvestris</i>	2
<i>Caltha palustris</i>	2
<i>Carex remota</i>	50
<i>Circaea lutetiana</i>	5
<i>Cirsium palustre</i>	2
<i>Dryopteris filix-mas</i>	1

Fraxinus excelsior	20
Glechoma hederacea	2
Holcus lanatus	2
Humulus lupulus	2
Juncus effusus	2
Mentha aquatica	3
Phragmites australis	2
Ranunculus repens	2

Location - unit number	Grid reference	Region	Author
Unit44	TM3891952046	East Suffolk	Toby Abrehart
Open area in Alder carr Swamp of <i>Iris pseudacorus</i> and <i>Carex riparia</i>		Date	Quadrat Number
		31/12/2013	618
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			25
		Layers mean height	
		2m,1m	
		Layers Cover	
		60%40%	
		Geology:	
		marsh	

Species list

Plant Name	Plant Density
<i>Ajuga reptans</i>	4
<i>Calystegia sepium</i>	2
<i>Cardamine flexuosa</i>	10
<i>Carex riparia</i>	50
<i>Eupatorium cannabin</i>	10
<i>Filipendula ulmaria</i>	2
<i>Humulus lupulus</i>	5
<i>Iris pseudacorus</i>	30

<i>Lysimachia nemorum</i>	5
<i>Phragmites australis</i>	10
<i>Pteridium aquilinum</i>	2
<i>Solanum dulcamara</i>	2
<i>Urtica dioica</i>	3

Location - unit number Unit44	Grid reference TM3898852036	Region East Suffolk	Author Toby Abrehart
W10 woodland. Dominated with Acer pseudoplatanus, odd hazel coppice and some Ulmus minor		Date 31/12/2013	Quadrat Number 619
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 100
		Layers mean height 12m,40cm,10cm	
		Layers Cover	
		Geology: Sandlings	
			

Species list

Plant Name	Plant Density
Acer pseudoplatanus	70
Alnus glutinosa	30
Corylus avellana	3
Glechoma hederacea	30
Hyacinthoides non-scr	60
Pteridium aquilinum	3
Quercus robur	10
Silene dioica	2

Stachys sylvatica	4
Ulmus minor	4
Urtica dioica	2

Location - unit number Unit 1	Grid reference TM4013156415	Region East Suffolk	Author Toby Abrehart
Saltmarsh sea wall Along this section of sea wall the SM24 community is being absorbed by the Phragmites along most of the section. At the base of the sea wall is a very narrow zone of Atriplex portulacoides and scattered Bolboschoenus maritima. Very large areas of Spartina x townsendii are taking a hold across the outer margins of this unit. Considerably more than is apparent 		Date 02/09/2013	Quadrat Number 625
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,60cm,20cm	
		Layers Cover 20%40%40%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Agrostis stolonifera	3
Atriplex patula	2
Atriplex portulacoides	2
Bolboschoenus mariti	3
Cirsium vulgare	1
Elytrigia atherica	65
Juncus gerardii	2
Phragmites australis	20

Plantago major	1
Sonchus arvensis	2

Location - unit number	Grid reference	Region	Author
Unit 1	TM4013056402	East Suffolk	Toby Abrehart
Saltmarsh. Becoming swamped by <i>Spartina x townsendii</i>. <i>Puccinellia maritima</i> dominated, all of this outer section of the saltmarsh here is becoming swamped by <i>Spartina anglica</i> and is all the same SM13f community being lost 		Date	Quadrat Number
		31/12/2013	626
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		80cm,40cm,0mm	
		Layers Cover	
		40%60%20%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	20
<i>Atriplex portulacoides</i>	3
<i>Plantago maritima</i>	3
<i>Puccinellia maritima</i>	40
<i>Salicornia ramosissima</i>	2
<i>Spartina maritima</i> x alt	30
<i>Spergularia marina</i>	2
<i>Suaeda maritima</i>	3

Location - unit number Unit 1	Grid reference TM4015756273	Region East Suffolk	Author Toby Abrehart
Spartina community, dominating the lower open mudflats.. 		Date 02/09/2013	Quadrat Number 627
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,0mm	
		Layers Cover 70%30%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	30
Spartina maritima x alt	70

Location - unit number	Grid reference	Region	Author
Unit 1	TM4015456248	East Suffolk	Toby Abrehart
Upper saltmarsh into reedbeds Mosaic of SM14, S4 and Spartina anglica		Date	Quadrat Number
		02/09/2013	628
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1.2m,1m,70cm,30cm,0mm	
		Layers Cover	
		5%10%30%60%10%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	40
Limonium vulgare	2
Phragmites australis	10
Salicornia ramosissima	2
Spartina maritima x alt	10
Spergularia media	2
Suaeda maritima	10

Triglochin maritimum	5
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Location - unit number	Grid reference	Region	Author
Unit 1	TM4011856226	East Suffolk	Toby Abrehart
Upper saltmarsh zone that used to be Festuca grasslands Occasional Rubus and Pteridium aquilinum spreading into previously rabbit grazed habitat No Vertigo angustior - squeezed out. 		Date	Quadrat Number
		31/12/2013	629
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1.5m,1m,40cm	
		Layers Cover	
		50%30%20%	
		Geology:	
		edge of saltmarsh	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	60
Atriplex littoralis	1
Cirsium arvense	20
Galium aparine	2
Phragmites australis	4
Silene dioica	2
Sonchus arvensis	5
Urtica dioica	10

Location - unit number	Grid reference	Region	Author
Unit 1	TM4009756240	East Suffolk	Toby Abrehart
Area of formerly rabbit grazed grasslands are now completely taken over by <i>Sonchus palustris</i>		Date	Quadrat Number
		02/09/2013	630
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		2m,1.4m,90cm,40cm	
		Layers Cover	
		20%20%40%50%	
		Geology:	
		upper saltmarsh and sandy soils	

Species list

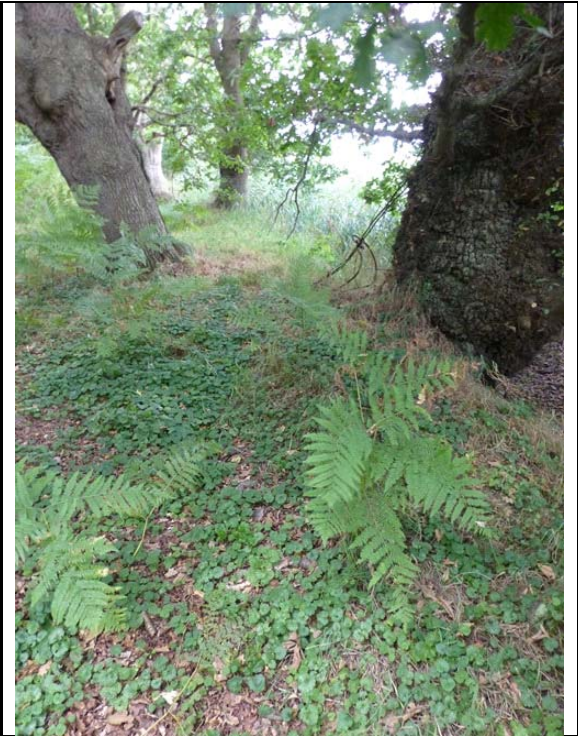
Plant Name	Plant Density
<i>Atriplex patula</i>	2
<i>Calystegia silvatica</i>	2
<i>Cerastium fontanum</i>	2
<i>Cirsium arvense</i>	10
<i>Elytrigia atherica</i>	50
<i>Festuca rubra</i>	2
<i>Galium aparine</i>	5
<i>Glaux maritima</i>	1

<i>Phragmites australis</i>	20
<i>Silene dioica</i>	2
<i>Sonchus palustris</i>	20

Location - unit number Unit 1	Grid reference TM4008356263	Region East Suffolk	Author Toby Abrehart
S4 dominated community 		Date 02/09/2013	Quadrat Number 631
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 25
		Layers mean height 2m,30cm	
		Layers Cover 100%3%	
		Geology: Reedbed	

Species list

Plant Name	Plant Density
Atriplex prostrata	3
Phragmites australis	100

Location - unit number Unit 1	Grid reference TM4005556251	Region East Suffolk	Author Toby Abrehart
W10 woodland at top end of SM before the footpath. Narrow strip of habitat, not even 10m deep. Pteridium aquilinum upper community with Glechoma hederacea below before the Phragmites australis. 		Date 02/09/2013	Quadrat Number 632
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 100
		Layers mean height 8m,2m,10cm	
		Layers Cover 100%40%60%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Agrostis canina	30
Arrhenatherum elatius	2
Bryonia dioica	2
Elytrigia atherica	2
Glechoma hederacea	50
Pteridium aquilinum	40
Quercus robur	100
Rubus sp	2

Sonchus arvensis	2
Urtica dioica	3

Location - unit number Unit 1	Grid reference TM3981556489	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh above reedbeds before the Footpath Only a small area not encroached by <i>Phragmites australis</i>. Occasional <i>Spartina x townsendii</i> 		Date 02/09/2013	Quadrat Number 633
		Altitude 0m	Soil Depth
		Stand Area 7x35m	Sample Area 4
		Layers mean height 40cm,20cm,0mm	
		Layers Cover 30%70%30%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Bare mud	30
Bostrychia scorpioides	5
Glaux maritima	1
Juncus gerardii	3
Phragmites australis	1
Plantago maritima	50
Puccinellia maritima	10

Triglochin maritimum	10
Ulva lactuca	5

Location - unit number Unit 1	Grid reference TM3988756577	Region East Suffolk	Author Toby Abrehart
Edge of saltmarsh area Dominated with <i>Puccinellia maritima</i>. <i>Spartina anglica</i> encroaching across the lower levels of the site. Behind <i>Puccinellia maritima</i>, is a band of <i>Atriplex portulacoides</i> for 3m, then a strip of <i>Elytrigia atherica</i> following an old sea wall line, Behind this is the <i>Triglochin</i> marsh 		Date 02/09/2013	Quadrat Number 634
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,10cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	10
<i>Atriplex prostrata</i>	10
<i>Puccinellia maritima</i>	80
<i>Spartina maritima</i> x alt	3
<i>Suaeda maritima</i>	2

Location - unit number Unit 1	Grid reference TM3985256588	Region East Suffolk	Author Toby Abrehart
Area of saltmarsh between communities. 8m wide strip before <i>Plantago maritima</i> dominated habitat.		Date 02/09/2013	Quadrat Number 636
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,40cm,	
		Layers Cover 30%70%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex portulacoides</i>	40
<i>Plantago maritima</i>	4
<i>Puccinellia distans</i>	2
<i>Puccinellia maritima</i>	20
<i>Salicornia europaea</i>	2
<i>Triglochin maritimum</i>	20

Location - unit number Unit 1	Grid reference TM3978956851	Region East Suffolk	Author Toby Abrehart
Spartina anglica in the reeds.		Date 02/09/2013	Quadrat Number 637
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,60cm,20cm	
		Layers Cover 20%60%20%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	3
Glaux maritima	10
Phragmites australis	10
Puccinellia maritima	10
Spartina anglica	70
Spergularia media	3

Location - unit number Unit 1	Grid reference TM3974056884	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh. Dominated with Juncus gerardii leading into Elytrigia atherica then into Agrostis canina grasslands 		Date 02/09/2013	Quadrat Number 638
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,50cm,20cm	
		Layers Cover 2%60%40%	
		Geology: upper saltmarsh	

Species list

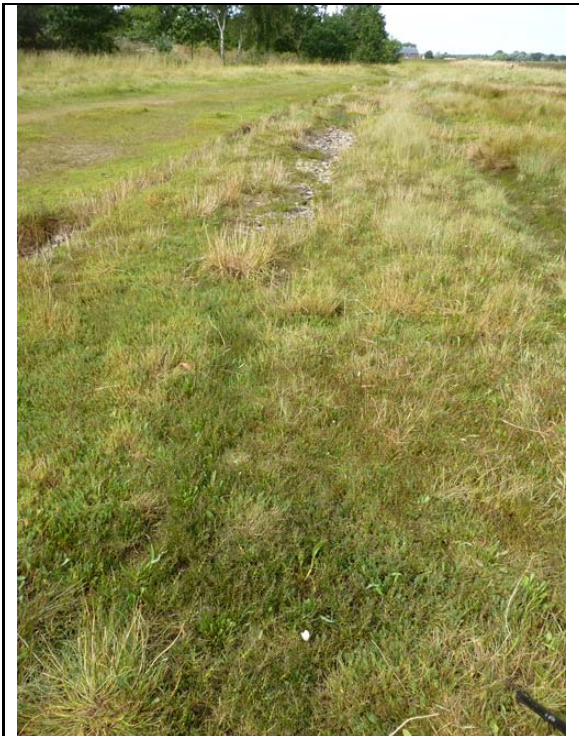
Plant Name	Plant Density
Elytrigia atherica	20
Glaux maritima	2
Juncus gerardii	60
Phragmites australis	3
Plantago maritima	5
Triglochin maritimum	10

Plant Name	Plant Density
<i>Bolboschoenus mariti</i>	99
<i>Phragmites australis</i>	1

Location - unit number Unit 1	Grid reference TM3968757003	Region East Suffolk	Author Toby Abrehart
Puccinellia maritima and Aster tripolium dominated community. Being squeezed out by Phragmites australis. This section is occasionally cut/mown. 		Date 02/09/2013	Quadrat Number 640
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	45
Puccinellia maritima	50
Salicornia europaea	2
Triglochin maritimum	5

Location - unit number Unit 1	Grid reference TM3966357021	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh near to the path. There are a few small areas of open saltmarsh community here. Dominated with Glaux and Salicornia sp. 		Date 02/09/2013	Quadrat Number 641
		Altitude 0m	Soil Depth
		Stand Area 20x2m	Sample Area 4
		Layers mean height 10cm,5cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Bostrychia scorpioides	20
Elytrigia atherica	2
Glaux maritima	40
Juncus gerardii	2
Limonium vulgare	2
Puccinellia maritima	5
Salicornia ramosissima	60

Triglochin maritimum	2
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Location - unit number Unit 1	Grid reference TM3971657168	Region East Suffolk	Author Toby Abrehart
Outer edge of this large section of Diverse mixed habitat. Dominated with Aster tripolium and Triglochin maritima Small area of Spartina X townsendii encroaching at outer edge. 6x1m at moment 		Date 02/09/2013	Quadrat Number 642
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,20cm	
		Layers Cover 40%60%	
		Geology: Saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	35
Atriplex portulacoides	2
Atriplex prostrata	3
Bolboschoenus mariti	2
Puccinellia maritima	20
Spartina anglica	2
Suaeda maritima	2
Triglochin maritimum	40

A wide-angle photograph of a vast agricultural field. The foreground and middle ground are filled with tall, dense vegetation, possibly a crop like sorghum or a similar grain, showing green leaves and reddish-brown seed heads. The field extends to a flat horizon line. In the far background, there is a line of trees and a few small, light-colored buildings under a clear, bright blue sky.

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex prostrata	10
Phragmites australis	100

Location - unit number Unit 1	Grid reference TM3963857125	Region East Suffolk	Author Toby Abrehart
Saline lagoonal habitat Channel leading to small lagoon With plenty of algae 		Date 02/09/2013	Quadrat Number 644
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 0	
		Layers Cover 30%	
		Geology: saline lagoon	

Species list

Plant Name	Plant Density
Enteromorpha intestin	3
Filamentous algae	10
Ulva lactuca	20

Location - unit number Unit2	Grid reference TM3948357609	Region East Suffolk	Author Toby Abrehart
Area at western end of site. Dominated with <i>Phragmites australis</i> all the way from the river side to the the footapth at the top of the sea wall. Occasional <i>Atriplex prostrata</i> within the community 		Date 03/09/2013	Quadrat Number 645
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 2m,20cm	
		Layers Cover 100%20%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex prostrata</i>	20
<i>Phragmites australis</i>	100

Location - unit number	Grid reference	Region	Author
Unit2	TM3950557621	East Suffolk	Toby Abrehart
Side of sea wall. <			

Species list

Plant Name	Plant Density
<i>Cirsium arvense</i>	2
<i>Elytrigia repens</i>	10
<i>Phragmites australis</i>	85
<i>Sonchus palustris</i>	5
<i>Urtica dioica</i>	2

Location - unit number Unit2	Grid reference TM3970957543	Region East Suffolk	Author Toby Abrehart
Footpath edge, recently been worked to give a stable surface 		Date 03/09/2013	Quadrat Number 647
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 50%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	2
Atriplex littoralis	2
Atriplex patula	2
Ballota nigra	3
Dactylis glomerata	2
Dipsacus fullonum	2
Draba incana	3
Lolium perenne	2

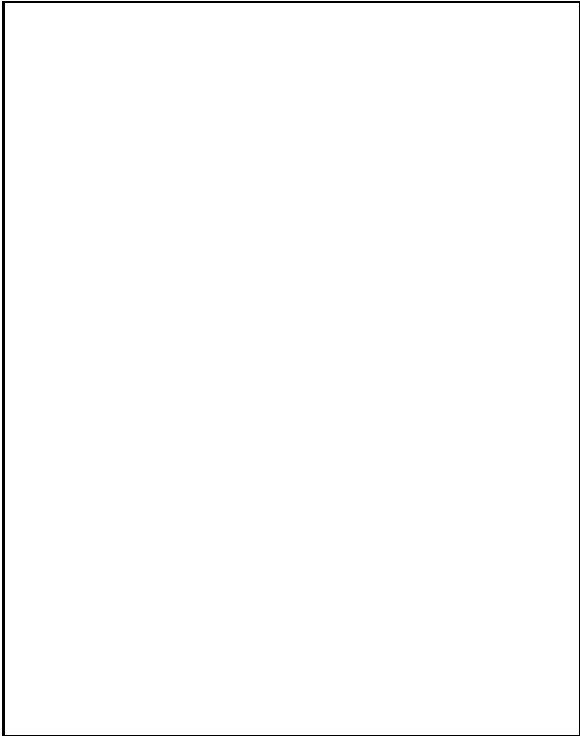
Malva sylvestris	2
Matricaria recutita	2
Melilotus altissimus	2
Picris echioides	2
Plantago coronopus	2
Plantago major	4
Poa annua	10
Polygonum aviculare	2

A photograph showing a dense field of tall, green grasses and weeds, possibly a meadow or pasture. The vegetation is thick and overgrown, with some taller stalks reaching up. In the background, there is a line of trees and a clear, bright sky. The overall scene suggests a natural, uncultivated area.

Plant Name	Plant Density
Cirsium arvense	1
Elytrigia atherica	95
Phragmites australis	5

A photograph showing a dense, overgrown area. In the foreground and middle ground, there is a thick growth of tall, green grasses and various weeds. Some plants have broad leaves, while others are more spiky. In the background, there are several trees with green foliage. The scene appears to be a natural, uncultivated area, possibly a field or a wooded edge. The lighting is bright, suggesting a sunny day.

Plant Name	Plant Density
<i>Althaea officinalis</i>	5
<i>Elytrigia atherica</i>	70
<i>Holcus lanatus</i>	10
<i>Phragmites australis</i>	10
<i>Pteridium aquilinum</i>	10
<i>Rubus</i> sp	10
<i>Ulex europaeus</i>	3
<i>Ulmus glabra</i>	50

Location - unit number	Grid reference	Region	Author
Unit2	TM4010957527	East Suffolk	Toby Abrehart
Saltmarsh becoming dominated with <i>Phragmites australis</i>. <i>Juncus gerardii</i> and <i>Bolboscheonus maritimus</i> dominated community no real structure. 		Date 31/12/2013	Quadrat Number 650
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,50cm	
		Layers Cover 80%30%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Bolboschoenus mariti</i>	30
<i>Festuca rubra</i>	3
<i>Glaux maritima</i>	2
<i>Juncus gerardii</i>	30
<i>Phragmites australis</i>	35

Location - unit number Unit2	Grid reference TM4009757450	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh, consists of a mosaic of communities with increasing <i>Phragmites australis</i> across the site. 		Date 03/09/2013	Quadrat Number 651
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,30cm,10cm	
		Layers Cover 5%20%75%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	2
Bolboschoenus mariti	4
Festuca rubra	10
Juncus gerardii	70
Plantago maritima	5
puccinellia distans	2
Puccinellia maritima	3

Triglochin maritimum	3
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A photograph of a field of tall, dense grass, likely a meadow or marsh, with a line of trees in the background under a clear sky. The grass is a mix of green and brown, suggesting it might be late summer or autumn. The trees in the background are dark green and form a dense line. The sky is a pale blue.

Species list

Plant Name	Plant Density
Bare mud	30
<i>Bolboschoenus mariti</i>	70

Location - unit number	Grid reference	Region	Author
Unit2	TM4016657379	East Suffolk	Toby Abrehart
Area of saltmarsh that was formerly SM24, is rapidly becoming S4. Adjacent communities are S4 with <i>Juncus gerardii</i> struggling.		Date	Quadrat Number
		03/09/2013	653
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1.2m,30cm	
		Layers Cover	
		10%90%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Elytrigia atherica</i>	70
<i>Phragmites australis</i>	30

Location - unit number Unit2	Grid reference TM4034157348	Region East Suffolk	Author Toby Abrehart
Largest proportion of the site is this community. In the lower lying areas of this site there are ribbons of <i>Bolboscheonus maritimus</i>. Along the channel margins is a constant community of <i>Elytrigia atherica</i>. <i>Juncus maritima</i> is extending into this area, joining the ribbons of <i>Bolboscheonus</i> 		Date 03/09/2013	Quadrat Number 654
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Bolboschoenus mariti</i>	10
<i>Glaux maritima</i>	3
<i>Juncus gerardii</i>	70
<i>Plantago maritima</i>	15
<i>Triglochin maritimum</i>	2

A photograph of a grassy field. The foreground is filled with tall, dry, yellowish-brown grass. In the background, there is a line of green trees and a cloudy sky. The image is framed by a black border.

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	10
<i>Juncus gerardii</i>	10
<i>Plantago maritima</i>	40
<i>Puccinellia distans</i>	40
<i>Triglochin maritimum</i>	5

Location - unit number Unit2	Grid reference TM4040757319	Region East Suffolk	Author Toby Abrehart
Outside saltmarsh, transitinal zone beyond the two ditches, both with <i>Bolboscheonus maritimus</i> <i>Elytrigia atherica</i> dominated grasslands Nearby a small patch of <i>Carex riparia</i>, 10x10m 		Date 03/09/2013	Quadrat Number 656
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,60cm,30cm	
		Layers Cover 4%60%46%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
<i>Althaea officinalis</i>	13
<i>Elytrigia atherica</i>	30
<i>Festuca rubra</i>	40
<i>Phragmites australis</i>	2
<i>Sonchus arvensis</i>	15

Location - unit number Unit2	Grid reference TM4043157294	Region East Suffolk	Author Toby Abrehart
Upper site grasslands. Dominated with Arrhenatherum elatius, with odd Sonchus arvensis and Vicia cracca		Date 03/09/2013	Quadrat Number 657
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,30cm	
		Layers Cover 35%65%	
		Geology: sandlings	
			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	60
Festuca rubra	30
Sonchus arvensis	5

Location - unit number Unit2	Grid reference TM4034257179	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh before the Acid grasslands Dominated with Juncus gerardii and Glaux maritima 		Date 03/09/2013	Quadrat Number 658
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Glaux maritima	35
Juncus gerardii	60
Limonium humile	1
Plantago maritima	2
Triglochin maritimum	2

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	30
Atriplex prostrata	3
Festuca rubra	5
Juncus gerardii	40
Juncus maritimus	5
Puccinellia distans	3

Location - unit number	Grid reference	Region	Author
Unit2	TM4034756845	East Suffolk	Toby Abrehart
Area of saltmarsh on western side of the sea wall extending south. Either end of this community <i>Phragmites australis</i> is encroaching This community is dominated with <i>Juncus gerardii</i> and <i>Glaux maritima</i> with <i>Bolboschoenus maritimus</i> at the estuary edge and <i>Spartina anglica</i> in the soft muds. 		Date	Quadrat Number
		03/09/2013	660
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,10cm	
		Layers Cover	
		20%80%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	2
<i>Atriplex portulacoides</i>	1
<i>Atriplex prostrata</i>	2
<i>Bolboschoenus mariti</i>	2
<i>Glaux maritima</i>	30
<i>Juncus gerardii</i>	60
<i>Plantago maritima</i>	2
<i>puccinellia distans</i>	2

<i>Triglochin maritimum</i>	2
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Location - unit number Unit4	Grid reference TM4039056645	Region East Suffolk	Author Toby Abrehart
Phragmites dominated community with abundant Atriplex portulacoides AT the waters edge there is a 10m band of Spartina Arunning along the length of the north shore as far as I can see in this section.		Date 03/09/2013	Quadrat Number 661
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,50cm	
		Layers Cover 50%50%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	1
Atriplex portulacoides	48
Phragmites australis	50
Spartina anglica	1

Location - unit number	Grid reference	Region	Author
Unit4	TM4038156652	East Suffolk	Toby Abrehart
Top of sea wall. Dominated with Elytrigia atherica and Phragmites australis. Occ Arre elat 		Date	Quadrat Number
		03/09/2013	662
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
1.5m,90cm			
Layers Cover			
30%70%			
Geology:			
clay sea wall			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	10
Chaerophyllum temul	3
Elytrigia atherica	70
Phragmites australis	20
Sonchus arvensis	2

Location - unit number Unit4	Grid reference TM4035256757	Region East Suffolk	Author Toby Abrehart
Within the saltmarsh. This community is dominant with an encroaching amount of <i>Phragmites australis</i>. 		Date 03/09/2013	Quadrat Number 663
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 60%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	40
<i>Glaux maritima</i>	15
<i>Juncus gerardii</i>	40
<i>Phragmites australis</i>	15
<i>puccinellia distans</i>	10

Location - unit number Unit4	Grid reference TM4040356810	Region East Suffolk	Author Toby Abrehart
Area of mainly Juncus gerardii and Plantago maritima community. 50% 50%		Date 03/09/2013	Quadrat Number 664
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 50%50%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	2
Bostrychia scorpioides	20
Bostrychia scorpioides	10
Glaux maritima	2
Juncus gerardii	40
Limonium vulgare	10
Plantago maritima	20

Puccinellia maritima	25
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Location - unit number Unit4	Grid reference TM4048456822	Region East Suffolk	Author Toby Abrehart
Grazed Saltmarsh. <i>Puccinellia maritima</i> community		Date 31/12/2013	Quadrat Number 665
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 20%80%	
		Geology: saltmarsh	
			

Species list

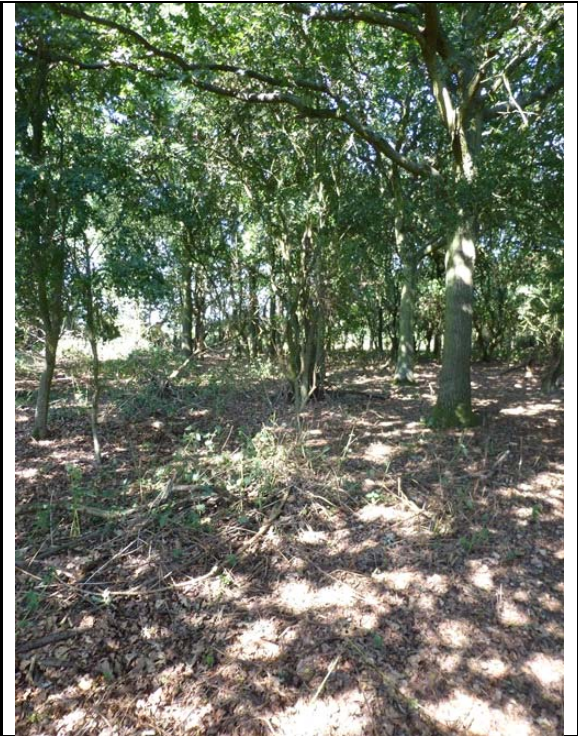
Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	5
<i>Puccinellia maritima</i>	80
<i>Spartina anglica</i>	10

A photograph of a grassy field. The foreground is filled with tall, dry, yellowish-brown grass that is blowing in the wind. In the background, there is a body of water and a line of trees under a clear blue sky.

Species list

Plant Name	Plant Density
<i>Agrostis canina</i>	10
<i>Arrhenatherum elatius</i>	3
<i>Cerastium fontanum</i>	1
<i>Cirsium vulgare</i>	1
<i>Elytrigia atherica</i>	3
<i>Festuca rubra</i>	70
<i>Holcus lanatus</i>	2
<i>Hypochaeris radicata</i>	2

Plantago lanceolata	2
Trifolium repens	2

Location - unit number Unit4	Grid reference TM4044956891	Region East Suffolk	Author Toby Abrehart
Woodland. Grazed, species poor typical of this area. 		Date 03/09/2013	Quadrat Number 667
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 100
		Layers mean height 8m,4m,1m	
		Layers Cover 90%30%60%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Crataegus monogyna	40
Holcus lanatus	1
Ilex aquifolium	10
Prunus spinosa	5
Quercus robur	100
Rubus sp	10
Urtica dioica	30

Location - unit number	Grid reference	Region	Author
Unit 4	TM4042856961	East Suffolk	Toby Abrehart
Area of saltmarsh between the two areas of woodland. Dominated with <i>Juncus gerardii</i> 		Date	Quadrat Number
		03/09/2013	668
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1m,30cm	
		Layers Cover	
		10%90%	
		Geology:	
		saltmarsh	

Species list

Location - unit number Unit4	Grid reference TM4055356973	Region East Suffolk	Author Toby Abrehart
Heavily grazed section of saltmarsh. A lower community		Date 03/09/2013	Quadrat Number 669
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,0mm	
		Layers Cover 50%50%	
		Geology: saltmarsh	
			

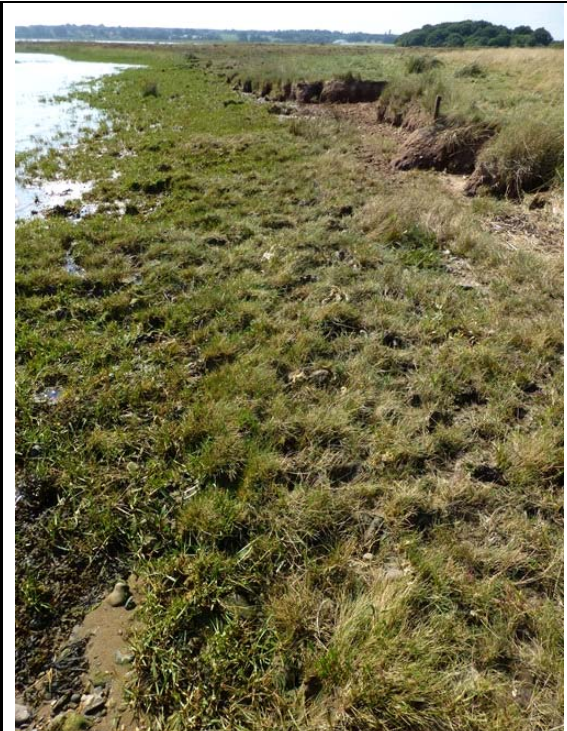
Species list

Plant Name	Plant Density
Armeria maritima	1
Aster tripolium	2
Atriplex portulacoides	3
Limonium vulgare	2
Puccinellia maritima	60
Salicornia dolichostac	2
Spergularia rubra	2
Suaeda maritima	2

Triglochin maritimum	2
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A wide-angle photograph of a flat, open landscape. The foreground and middle ground are covered in dense, low-lying vegetation that appears dry and brownish-green. There are some small, light-colored patches scattered throughout the ground. In the far distance, a thin line of trees and a small, light-colored building are visible on the horizon. The sky is clear and blue.

Triglochin maritimum	3
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Location - unit number Unit4	Grid reference TM4084357038	Region East Suffolk	Author Toby Abrehart
Shoreline, with spartina at the outer margin. Above which Fucus creates a 1m margin, above which the SM13 community statrts before the cliffing.		Date 03/09/2013	Quadrat Number 671
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm,0mm	
		Layers Cover 50%50%	
		Geology: shingle shoreline	
			

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	2
Puccinellia maritima	45
Salicornia dolichostac	2
Salicornia ramosissima	1
Spergularia marina	1
Suaeda maritima	2

Location - unit number Unit4	Grid reference TM4089657095	Region East Suffolk	Author Toby Abrehart
Acid grasslands. A large area across this unit of consistant habitat with little to no variation apparent. All these grasslands are grazed by 21 cattle. The poaching along the margin of trhe shore has in some areas created a reduction in the developoing cliff edge. Which is good. 		Date 03/09/2013	Quadrat Number 672
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm	
		Layers Cover 30%70%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Achillea millefolium	4
Agrostis capillaris	50
Anthoxanthum odorat	10
Festuca rubra	10
Hypochaeris radicata	3
Plantago lanceolata	5
Pseudosclerodopium	20
Rumex acetosella	10

Senecio jacobaea	2
Ulex europaeus	2

A photograph showing a wide, flat landscape covered in green and brown grass. In the distance, a calm body of water stretches across the horizon under a clear sky. A small, dark object, possibly a person or a structure, is visible on the right side of the field. The foreground shows some clumps of taller grass and a small, light-colored, textured mound in the bottom right corner.

<i>Puccinellia maritima</i>	50
<i>Salicornia europaea</i>	3
<i>Spergularia media</i>	2
<i>Triglochin maritimum</i>	5

Location - unit number Unit4	Grid reference TM4110357261	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh. Dominated with <i>Juncus gerardii</i> and <i>Atriplex portulacoides</i>. 50% of this marsh is this communitiy. 30% has just <i>Juncus gerardii</i> and <i>Juncus maritimus</i> 20% is a matrix of <i>Pucc mariti</i> and <i>Limonium</i> communities Nearby small 3x3m patsches of <i>Elytrigia atherica</i> and <i>Juncus martimus</i> 		Date 03/09/2013	Quadrat Number 674
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 60%40%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	40
<i>Atriplex prostrata</i>	10
<i>Juncus gerardii</i>	50

Location - unit number Unit4	Grid reference TM4109557340	Region East Suffolk	Author Toby Abrehart
Elytrigia atherica grassland 		Date 03/09/2013	Quadrat Number 675
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 10cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	5
Elytrigia atherica	95

Location - unit number	Grid reference	Region	Author
Unit4	TM4103157376	East Suffolk	Toby Abrehart
Upper saltmarsh. Well grazed heavily poached.		Date	Quadrat Number
		03/09/2013	676
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,10cm	
		Layers Cover	
		20%80%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Armeria maritima	5
Aster tripolium	7
Juncus gerardii	10
Juncus maritimus	10
Limonium vulgare	5
Plantago maritima	3
Puccinellia maritima	60
Salicornia europaea	3

Spartina anglica	3
Triglochin maritimum	4

A photograph showing a vast expanse of tall, green and yellowish-brown grasses, likely a coastal wetland or marsh. The grasses are dense and appear to be blowing in the wind. In the background, a calm body of water stretches to the horizon under a clear blue sky. A small, distant landmass or island is visible on the horizon line.

Species list

Plant Name	Plant Density
<i>Elytrigia atherica</i>	10
<i>Festuca rubra</i>	10
<i>Glaux maritima</i>	30
<i>Juncus gerardii</i>	50
<i>Limonium vulgare</i>	10
<i>Puccinellia maritima</i>	10

A photograph of a grassy field. The foreground is filled with dense, green and brown grass. A small, white, irregularly shaped object is visible on the ground in the lower-middle part of the frame. The background shows a flat expanse of grass leading to a line of trees under a clear sky.

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	10
<i>Aster tripolium</i>	10
<i>Festuca rubra</i>	5
<i>Juncus gerardii</i>	40
<i>Limonium vulgare</i>	25
<i>Salicornia europaea</i>	15

Location - unit number Unit4	Grid reference TM4145757494	Region East Suffolk	Author Toby Abrehart
Outer marsh area, typical across this whole area. Seaward edge has a developing Spartina community in patches along the shore. Along the creek margins Elytrigia atherica is dominant. Small areas of Phragmites are developing nearby. 		Date 03/09/2013	Quadrat Number 679
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	35
Elytrigia atherica	2
Juncus gerardii	50
Limonium vulgare	1
Puccinellia maritima	2

A photograph of a grassy field, likely a meadow or pasture. The foreground is dominated by tall, dry, yellowish-brown grasses. In the middle ground, there is a patch of greener grass and some small white flowers. The background shows a dense line of green trees under a clear sky.

Triglochin maritimum	10
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Location - unit number Unit4	Grid reference TM4140557783	Region East Suffolk	Author Toby Abrehart
Sir Hopkins side of the saltmarsh marsh. Excellent marshes, well maintained large mosaic of SM13c, SM18, with occasional Spartina anglica stands 		Date 31/12/2013	Quadrat Number 682
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 30%70%	
		Geology: Saltmarsh	

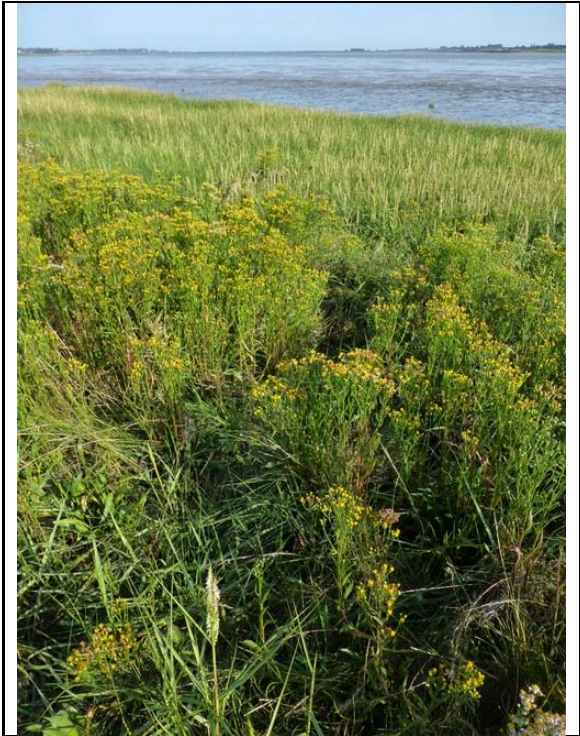
Species list

Plant Name	Plant Density
Armeria maritima	20
Aster tripolium	15
Festuca rubra	15
Limonium vulgare	15
Plantago maritima	15
Puccinellia maritima	25
Triglochin maritimum	5

Location - unit number	Grid reference	Region	Author
Unit 4	TM4153157666	East Suffolk	Toby Abrehart
Middle marsh, with Phragmites developing into the communitiy		Date	Quadrat Number
		03/09/2013	683
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		70cm,20cm	
		Layers Cover	
		30%70%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex prostrata	5
Juncus gerardii	50
Phragmites australis	25
Puccinellia maritima	10

Location - unit number Unit4	Grid reference TM4161957558	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh above the Spartina communtiy. A three metre wide strip of Aster tripolium discoidea. Covered in bees and butterflies		Date 03/09/2013	Quadrat Number 684
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 80cm40cm	
		Layers Cover 80%20%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	80
Atriplex portulacoides	10
Juncus maritimus	5
Puccinellia maritima	2
Spartina anglica	10

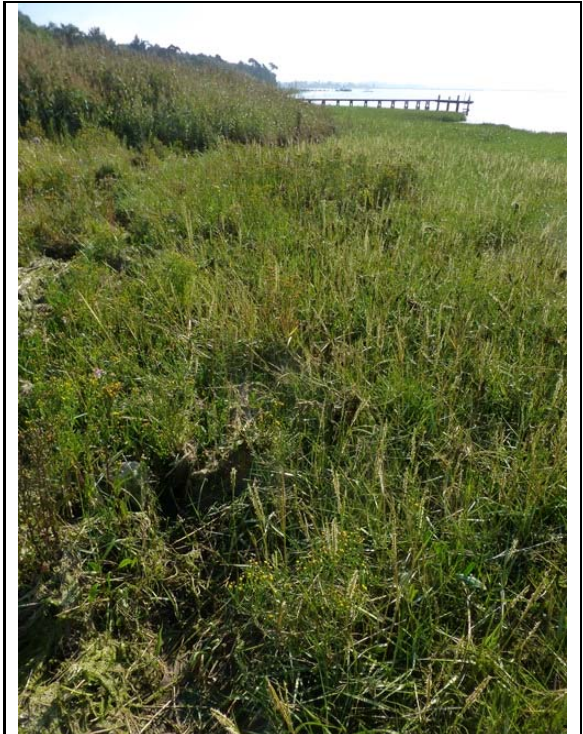
Location - unit number	Grid reference	Region	Author
Unit6	TM4185857776	East Suffolk	Toby Abrehart
Upper saltmarsh grassland community. Dominated with Festuca rubra and Elytrigia atherica. Cirsium arvense an common component here. Above this line the vegetation is mown., below this it is SM24 		Date	Quadrat Number
		04/09/2013	685
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		80cm,30cm	
		Layers Cover	
		70%30%	
		Geology:	
		sandlings	

Species list

Plant Name	Plant Density
Carex arenaria	2
Cirsium arvense	10
Elytrigia atherica	15
Festuca rubra	60
Juncus maritimus	3

Location - unit number Unit6	Grid reference TM4186657763	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh dominated with Juncus gerardii		Date 04/09/2013	Quadrat Number 686
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,40cm	
		Layers Cover 3%97%	
		Geology: saltmarsh	
			

Species list

Location - unit number Unit6	Grid reference TM4187857752	Region East Suffolk	Author Toby Abrehart
Spartina anglica community		Date 04/09/2013	Quadrat Number 687
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 45cm,0mm	
		Layers Cover 80%20%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	3
Elytrigia atherica	2
Glaux maritima	30
Juncus gerardii	45
Limonium vulgare	5
Plantago maritima	3
Triglochin maritimum	10

Location - unit number Unit6	Grid reference TM4188657772	Region East Suffolk	Author Toby Abrehart
SM24 grasslands Up to 7m deep before the cut path area. 		Date 04/09/2013	Quadrat Number 689
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,50cm	
		Layers Cover 20%80%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Althaea officinalis	10
Asparagus officinalis	1
Elytrigia atherica	80
Rumex obtusifolius	2
Sonchus arvensis	10

Location - unit number Unit6	Grid reference TM4217457783	Region East Suffolk	Author Toby Abrehart
Salicornia bed. SM10 3m wide spreading into the estuary currently not covered by Spartina 		Date 04/09/2013	Quadrat Number 690
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm,0mm	
		Layers Cover 10%55%35%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Limonium vulgare	5
Puccinellia maritima	20
Salicornia dolichostachya	10
Spartina anglica	2
Suaeda maritima	15

Location - unit number Unit6	Grid reference TM4218957789	Region East Suffolk	Author Toby Abrehart
Atriplex portulacoides dominated saltmarsh, 6m deep 		Date 04/09/2013	Quadrat Number 691
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 20%80%	
		Geology: saltmarsh with sand	

Species list

Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	50
Limonium vulgare	4
Puccinellia maritima	15
Suaeda maritima	3

Location - unit number Unit6	Grid reference TM4220057792	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh where the marsh meets the cliffs. A narrow beach is present 1.5m wide above the Suaeda maritima. Backed with Beta vulgaris ssp maritima 		Date 04/09/2013	Quadrat Number 692
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 80cm,30cm,10cm,0mm	
		Layers Cover 5%30%20%45%	
		Geology: sandy base of cliff	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex glabriuscula	2
Atriplex littoralis	2
Beta vulgaris subsp. M	20
Elytrigia atherica	5
Sonchus arvensis	3
Suaeda maritima	30

Species list

Plant Name	Plant Density
Beta vulgaris subsp. M	2
Carex arenaria	50
Cirsium arvense	2
Elytrigia atherica	30
Festuca rubra	10
Lonicera periclymenu	2
Rubus sp	10
Sonchus arvensis	3

Location - unit number	Grid reference	Region	Author
Unit6	TM4269057805	East Suffolk	Toby Abrehart
Aster tripolium dominated community Full of bees and other inverts 		Date	Quadrat Number
		04/09/2013	694
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1m,20cm	
		Layers Cover	
		60%40%	
		Geology:	
		sandy saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	80
Atriplex portulacoides	5
Atriplex prostrata	2
puccinellia distans	5
Spartina anglica	2
Suaeda maritima	10

Location - unit number Unit6	Grid reference TM4300857843	Region East Suffolk	Author Toby Abrehart
Inner section of this embayment of saltmarsh and developing Phragmites community Juncus gerardii dominant and laying down. Scattered SM species though thin on the ground 		Date 04/09/2013	Quadrat Number 696
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

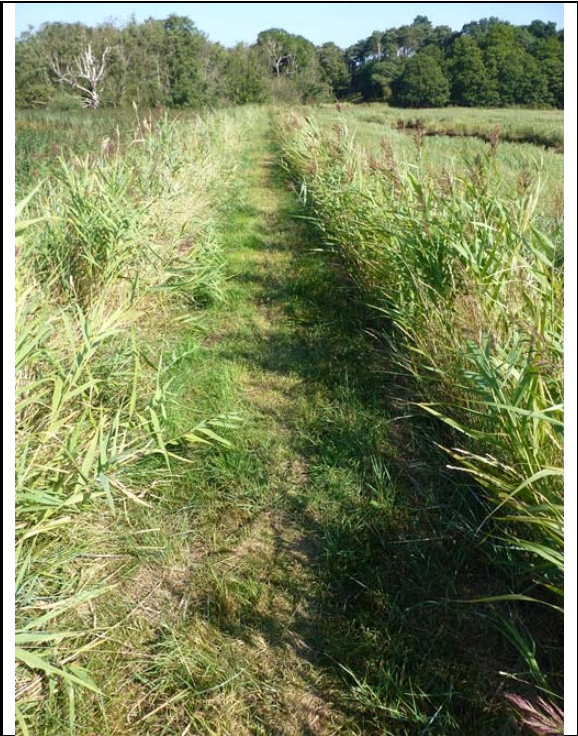
Plant Name	Plant Density
Aster tripolium	10
Atriplex prostrata	2
Elytrigia atherica	3
Juncus gerardii	65
Juncus maritimus	2
Limonium vulgare	5
Phragmites australis	2
Plantago maritima	10

Triglochin maritimum	15
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Location - unit number Unit6	Grid reference TM4304657878	Region East Suffolk	Author Toby Abrehart
The higher level in the saltmarsh dominated with <i>Phragmites australis</i> and <i>Elytrigia atherica</i>. As a 50 50 matrix 		Date 04/09/2013	Quadrat Number 697
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,60cm	
		Layers Cover 70%30%	
		Geology: slatmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	3
<i>Atriplex prostrata</i>	2
<i>Elytrigia atherica</i>	35
<i>Juncus gerardii</i>	5
<i>Phragmites australis</i>	60

Location - unit number	Grid reference	Region	Author
Unit6	TM4293157884	East Suffolk	Toby Abrehart
Top of sea wall, path cut through. Phragmites and Elytrigia atherca dominated community each side of path 		Date	Quadrat Number
		04/09/2013	698
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1.2m,10cm	
		Layers Cover	
		50%50%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	20
Conium maculatum	2
Elytrigia atherica	30
Holcus lanatus	3
Lactuca serriola	3
Leontodon autumnalis	2
Phragmites australis	30
Plantago lanceolata	2

Plantago major	1
Sonchus asper	2
Taraxicum officinalis	2
Torilis japonica	3

Location - unit number Unit6	Grid reference TM4312557891	Region East Suffolk	Author Toby Abrehart
Lower level saltmarsh above the <i>Spartina anglica</i> community. Above this is a narrow 2m section of <i>Puccinellia maritima</i> before the higher communitiy of <i>Suaeda maritima</i> 		Date 31/12/2013	Quadrat Number 699
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

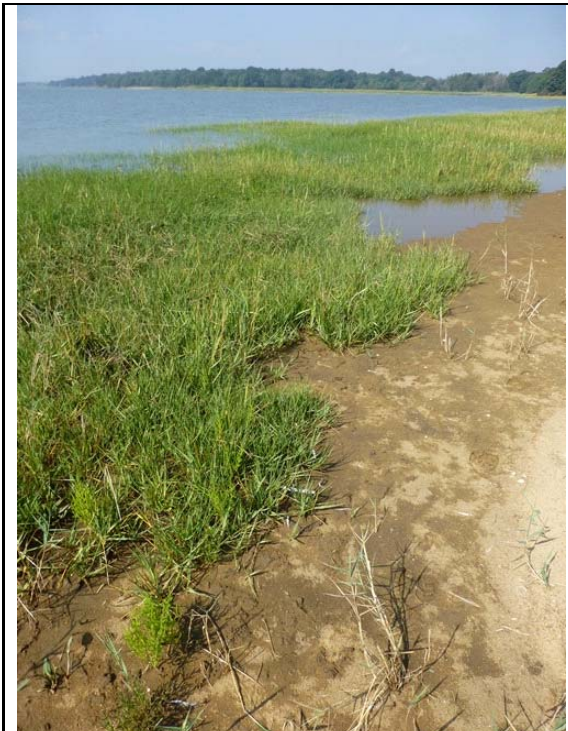
Plant Name	Plant Density
<i>Limonium vulgare</i>	25
<i>Plantago maritima</i>	2
<i>Puccinellia maritima</i>	30
<i>Salicornia dolichostac</i>	5
<i>Salicornia europaea</i>	20
<i>Spergularia media</i>	3
<i>Suaeda maritima</i>	20
<i>Triglochin maritimum</i>	2

Location - unit number Unit6	Grid reference TM4321757834	Region East Suffolk	Author Toby Abrehart
Above the high tide line at the base of the cliff. A community of <i>Carex arenaria</i> within the loose sands along here. 		Date 04/09/2013	Quadrat Number 700
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 25cm	
		Layers Cover 100%	
		Geology: sands	

Species list

Plant Name	Plant Density
<i>Carex arenaria</i>	95
<i>Glaux maritima</i>	2
<i>Hyoscyamus niger</i>	1
<i>Senecio jacobaea</i>	1
<i>Silene latifolia</i>	1
<i>Verbascum thapsus</i>	1

Location - unit number	Grid reference	Region	Author
Unit6	TM4336557612	East Suffolk	Toby Abrehart
Spartina anglica dominated marsh. With some Phragmites australis entering the habitat		Date	Quadrat Number
		31/12/2013	701
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		25cm	
		Layers Cover	
		100%	
		Geology:	
		sandy saltmarsh	



Species list

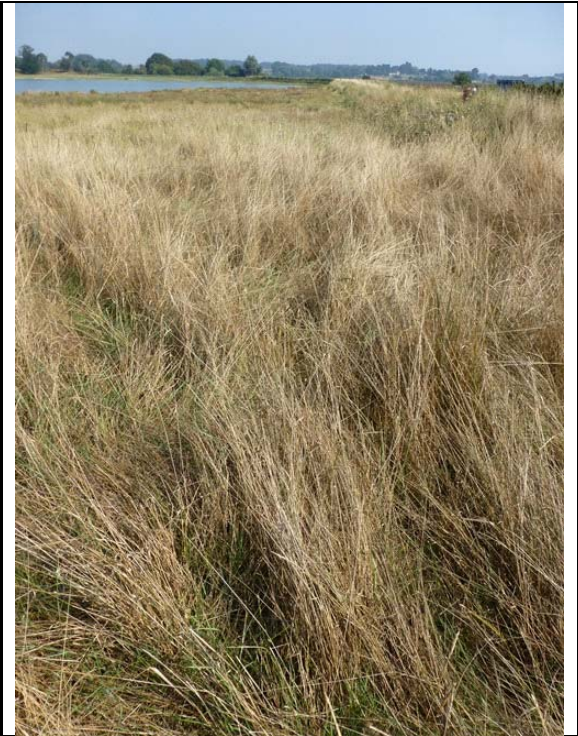
Plant Name	Plant Density
Aster tripolium	2
Limonium vulgare	2
Phragmites australis	3
Salicornia dolichostac	3
Salicornia europaea	2
Spartina anglica	90

Location - unit number Unit 6	Grid reference TM4326657382	Region East Suffolk	Author Toby Abrehart
Outer section of saltmarsh at western end of unit 6. 90% this community with small sections of sm24 at the outer edge and the south. Small areas of <i>Plantago maritima</i> 		Date 04/09/2013	Quadrat Number 702
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 50%50%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	30
<i>Festuca rubra</i>	5
<i>Juncus maritimus</i>	40
<i>Limonium vulgare</i>	3
<i>Plantago maritima</i>	3
<i>Puccinellia maritima</i>	30
<i>Spartina anglica</i>	3

<i>Triglochin maritimum</i>	6
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Location - unit number	Grid reference	Region	Author
Unit6	TM4320657337	East Suffolk	Toby Abrehart
Upper edge of the grasslands before the top of the sea wall. Small area of <i>Agrostis canina</i> near the fence line 		Date	Quadrat Number
		04/09/2013	703
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		1m,60cm	
		Layers Cover	
		40%60%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	40
<i>Beta vulgaris</i> subsp. M	2
<i>Dactylis glomerata</i>	4
<i>Elytrigia repens</i>	40
<i>Festuca rubra</i>	10
<i>Holcus lanatus</i>	4
<i>Hypochaeris radicata</i>	3
<i>Rumex obtusifolius</i>	2

<i>Sonchus oleraceus</i>	2
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Location - unit number Unit9	Grid reference TM4332357127	Region East Suffolk	Author Toby Abrehart
Top of the sea wall. The sea wall margin is impounded with interlocking concrete blocks. Below whichh is a three metre band of Fucus 		Date 04/09/2013	Quadrat Number 704
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,50cm	
		Layers Cover 30%70%	
		Geology: clay sea wall	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	50
Atriplex littoralis	2
Beta vulgaris subsp. M	2
Elytrigia atherica	20
Festuca rubra	20
Phragmites australis	10
Sonchus asper	1

Plant Name	Plant Density
Aster tripolium	20
Atriplex portulacoides	30
Elytrigia atherica	5

Location - unit number	Grid reference	Region	Author
Unit9	TM4350257164	East Suffolk	Toby Abrehart
Top of sea wall	Date	Quadrat Number	
	04/09/2013	707	
	Altitude	Soil Depth	
	2m		
	Stand Area	Sample Area	
		4	
	Layers mean height		
	90cm,30cm		
	Layers Cover		
	70%30%		
	Geology:		
clay sea wall			

Species list

Location - unit number	Grid reference	Region	Author
Unit9	TM4363257245	East Suffolk	Toby Abrehart
Behind sea wall. A continuation of the disturbed clay behind the sea wall. Amazing community of Aster tripolium and Puccinellia distans and Puccinellia fasciculata.		Date	Quadrat Number
		31/12/2013	708
		Altitude	Soil Depth
		-1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		80cm,10cm	
		Layers Cover	
		50%50%	
		Geology:	
		area of disturbed clay	

Species list

Plant Name	Plant Density
Aster tripolium	50
Atriplex littoralis	2
Bolboschoenus mariti	3
Phragmites australis	10
Puccinellia distans	10
Puccinellia fasciculata	4
Salicornia europaea	3
Salicornia ramosissima	10

Spergularia media	2
Spergularia rubra	10

Location - unit number Unit9	Grid reference TM4444057274	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh before spartina community. Above this community is a narrow band of Suaeda maritima, 10cm before the SM24 starts		Date 04/09/2013	Quadrat Number 709
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 90cm,40cm,10cm	
		Layers Cover 30%40%30%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	40
Atriplex portulacoides	5
Limonium vulgare	5
Plantago maritima	2
Puccinellia maritima	10
Spartina anglica	10
Spergularia media	4
Suaeda maritima	20

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	2
Beta vulgaris subsp. M	2
Elytrigia atherica	2
Limonium humile	2
Suaeda maritima	35

A photograph showing a grassy dune area. In the foreground, there is a dense patch of tall, dry, yellowish-brown grass. A small, dark, vertical object, possibly a piece of wood or a small tree, stands in the middle ground. In the background, a large, dark, rectangular wooden structure, possibly a shed or a small building, is visible on the dune. Beyond the dune, a body of water (the ocean) is visible under a clear sky. The overall scene is a natural, coastal environment.

Species list

Plant Name	Plant Density
Arrhenatherum elatius	3
Beta vulgaris subsp. M	10
Bostrychia scorpioides	10
Convolvulus arvensis	5
Dactylis glomerata	2
Elytrigia atherica	50
Medicago sativa subsp	1

Location - unit number Unit9	Grid reference TM4470757116	Region East Suffolk	Author Toby Abrehart
Juncus gerardii community in amongst Puccinellia maritima. Some of the vegetation flattened by tides 		Date 31/12/2013	Quadrat Number 712
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm	
		Layers Cover 60%40%	
		Geology: slatmarsh	

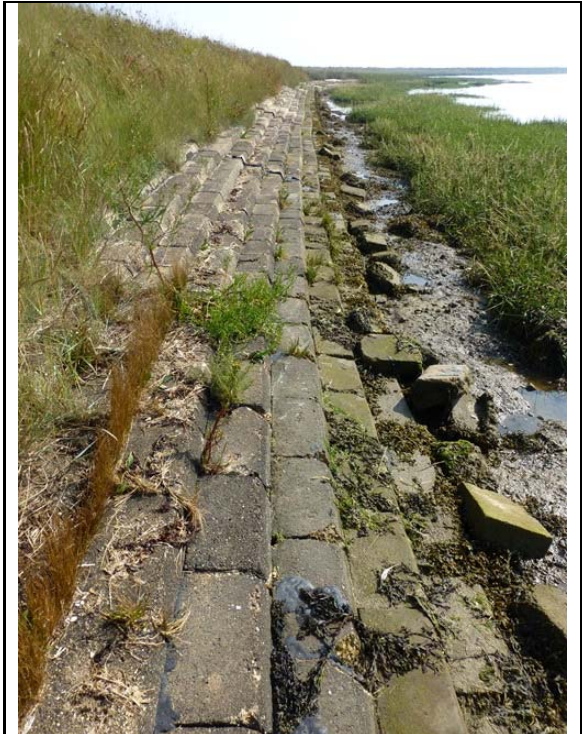
Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	25
Atriplex prostrata	5
Glaux maritima	5
Juncus gerardii	30
Limonium vulgare	5
Plantago maritima	10
Puccinellia maritima	15

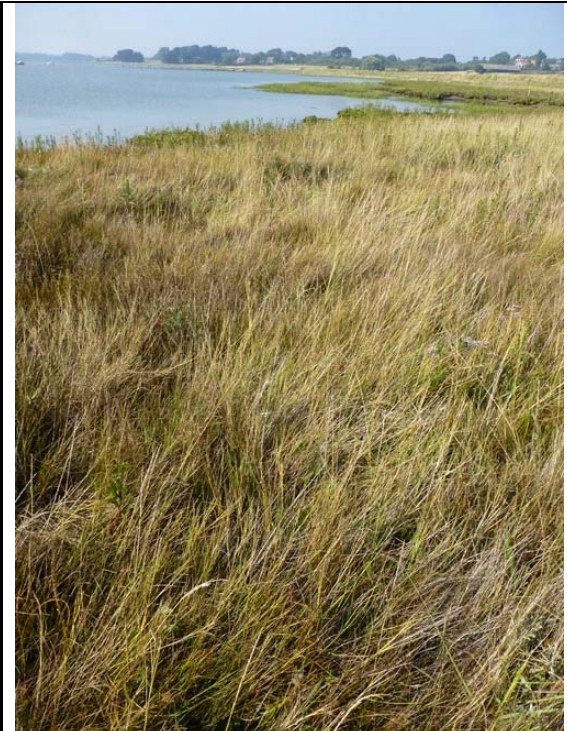
Location - unit number	Grid reference	Region	Author
Unit9	TM4470957103	East Suffolk	Toby Abrehart
Saltmarsh		Date 04/09/2013	Quadrat Number 713
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 30%70%	
		Geology: saltmarsh sandy	

Species list

Plant Name	Plant Density
Filamentous algae	5
Fucus vesiculosus	30
Spartina anglica	60

Location - unit number Unit9	Grid reference TM4495156816	Region East Suffolk	Author Toby Abrehart
Concrete impounded sea wall 		Date 04/09/2013	Quadrat Number 715
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm,0mm	
		Layers Cover 10%90%	
		Geology: concrete sea wall	

Species list

Location - unit number Unit9	Grid reference TM4501156519	Region East Suffolk	Author Toby Abrehart
Middle of saltmarsh, an area of <i>Juncus gerardii</i>		Date 31/12/2013	Quadrat Number 716
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,30cm	
		Layers Cover 30%70%	
		Geology: Eroding saltmarsh	
			

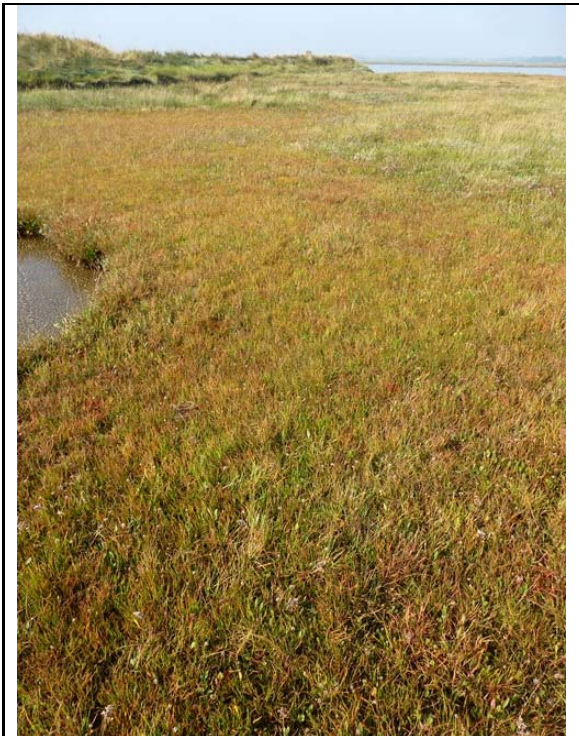
Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	15
Juncus gerardii	30
Juncus maritimus	2
Limonium vulgare	3
Plantago maritima	5
Puccinellia maritima	30
Spartina anglica	20

Triglochin maritimum	10
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Location - unit number Unit9	Grid reference TM4502056512	Region East Suffolk	Author Toby Abrehart
Inner saltmarsh of this area dominated with Spartina		Date 04/09/2013	Quadrat Number 717
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	
			

Species list

Location - unit number	Grid reference	Region	Author
Unit 10	TM4620754699	East Suffolk	Toby Abrehart
Upper saltmarsh community dominated with <i>Armeria maritima</i> and <i>Limonium vulgare</i>. Numerous pools - ephemeral. SM13c covers 50% of this section becoming SM14c - 30% SM14a dominant in the lower sections 19% with smaller areas of SM24 at the higher levels of the marsh - 2% 	Date 31/12/2013	Quadrat Number 718	
	Altitude 0m	Soil Depth	
	Stand Area	Sample Area 4	
	Layers mean height 20cm,5cm		
	Layers Cover 20%80%		
	Geology: saltmarsh		

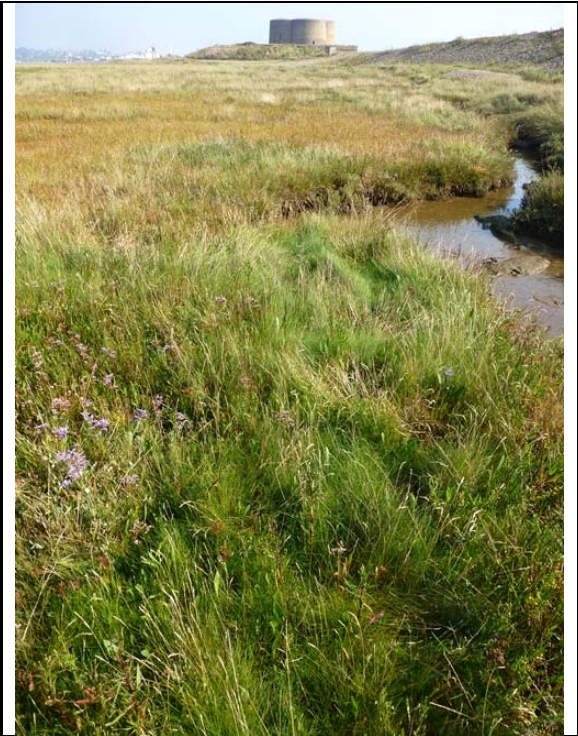
Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	30
<i>Limonium vulgare</i>	30
<i>Plantago maritima</i>	20
<i>Puccinellia maritima</i>	3
<i>Triglochin maritimum</i>	10

Location - unit number Unit 10	Grid reference TM4621954726	Region East Suffolk	Author Toby Abrehart
Lower arera of saltmarsh running up the shingle ridge. Atriplex portulacoides present in high density but with a good amount of Salicornia 3% of the habitat this The Atriplex portulacoides is dying back here as the salicornia is increasing 		Date 05/09/2013	Quadrat Number 720
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,30cm,10cm	
		Layers Cover 20%40%50%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	20
Bostrychia scorpioides	40
Puccinellia maritima	3
Salicornia europaea	50
Suaeda maritima	50

Location - unit number Unit 10	Grid reference TM4622054751	Region East Suffolk	Author Toby Abrehart
Higher saltmarsh community dominated with Festuca rubra. Very small areas of this community often less than 10x2m 		Date 05/09/2013	Quadrat Number 721
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm15cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

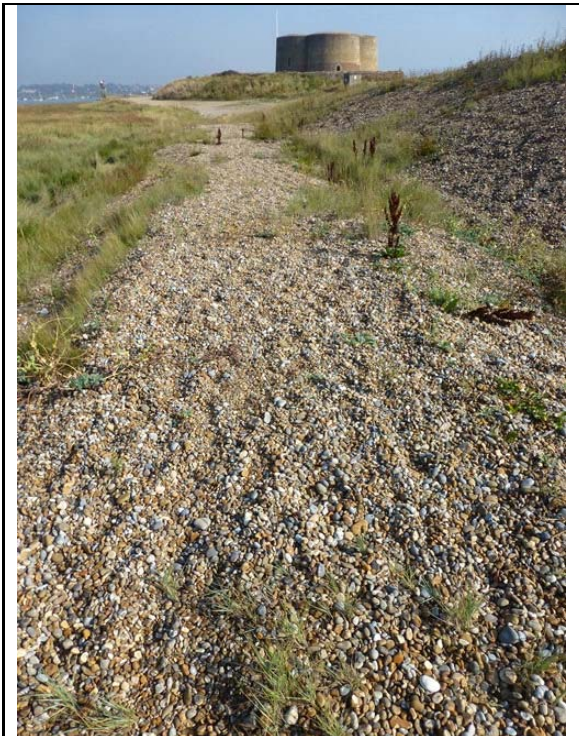
Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	10
Festuca rubra	40
Limonium vulgare	10
Plantago maritima	5
Puccinellia maritima	5
Triglochin maritimum	5

Location - unit number	Grid reference	Region	Author
Unit 10	TM4623554757	East Suffolk	Toby Abrehart
Upper saltmarsh. SM24 Though with abundant <i>Atriplex portulacoides</i> entering the community. This disappears once the land rises more		Date	Quadrat Number
		05/09/2013	722
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height 80cm/30cm	
		Layers Cover 20%/80%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	40
<i>Elytrigia atherica</i>	60

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	60
<i>Elytrigia atherica</i>	40
<i>Seriphidium maritimu</i>	5

Location - unit number	Grid reference	Region	Author
Unit 10	TM4625854804	East Suffolk	Toby Abrehart
Shingle added to the site during sea wall works, creating a narrow strip of this community 		Date	Quadrat Number
		31/12/2013	725
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
		5cm,0mm	
		Layers Cover	
		5%95%	
		Geology:	
		shingle ridge	

Species list

Plant Name	Plant Density
Atriplex patula	1
Beta vulgaris subsp. M	1
Elytrigia atherica	1
Glaucium flavum	3
Senecio viscosus	2

Location - unit number	Grid reference	Region	Author
Unit 10	TM4625554865	East Suffolk	Toby Abrehart
Lower saltmarsh high up the marsh. Spartina 30% of this community Mainly Puccinellia maritima		Date	Quadrat Number
		31/12/2013	726
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,30cm,0mm	
		Layers Cover	
		50%40%20%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	10
Puccinellia maritima	40
Spartina maritima	30

Location - unit number Unit 10	Grid reference TM4626454997	Region East Suffolk	Author Toby Abrehart
Saltmarsh at edge of pool Spartina maritima is only at the edges of the pools not within the saltmarsh here.		Date 05/09/2013	Quadrat Number 727
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 25cm,5cm	
		Layers Cover 20%80%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Armeria maritima	40
Aster tripolium	5
Limonium vulgare	20
Plantago maritima	10
Puccinellia maritima	10
Spartina maritima	20

Location - unit number Unit 10	Grid reference TM4634255594	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh above the limonium/armeria community and before the SM24 Spart/pucc - 40% Armeria/Limonium - 15% SM24 - 3% Juncus gerardii - 10% Atriplex port - 10% Suaeda - 3% Aster discoid - 1%		Date 31/12/2013	Quadrat Number 728
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm	
		Layers Cover 100%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	20
Elytrigia atherica	10
Festuca rubra	30
Juncus gerardii	40
Seriphidium maritimu	2

Location - unit number	Grid reference	Region	Author
Unit 10	TM4617855684	East Suffolk	Toby Abrehart
Top of sea wall. SM24 community 		Date	Quadrat Number
		05/09/2013	729
		Altitude	Soil Depth
		2m	
		Stand Area	Sample Area
			4
		Layers mean height	
		80cm,30cm10mm	
		Layers Cover	
		40%60%20%	
		Geology:	
		clay sea wall	

Species list

Plant Name	Plant Density
Agrostis stolonifera	2
Beta vulgaris subsp. M	10
Dactylis glomerata	5
Elytrigia atherica	70
Festuca rubra	2
Lolium perenne	1
Medicago lupulina	1
Picris echioides	1

Plantago lanceolata	2
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Location - unit number Unit 10	Grid reference TM4609355712	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh community, dominated with Puccinellia maritima and Atriplex portulacoides.		Date 31/12/2013	Quadrat Number 730
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,20cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	35
Festuca rubra	3
Limonium vulgare	3
Plantago maritima	10
Puccinellia maritima	40
Spergularia media	3
Triglochin maritimum	2

Location - unit number Unit 10	Grid reference TM4594755778	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh, dominated with Juncus gerardii and Juncus maritimus. 		Date 05/09/2013	Quadrat Number 731
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,40cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	30
Juncus gerardii	40
Juncus maritimus	15
Limonium vulgare	1

Location - unit number	Grid reference	Region	Author
Unit 10	TM4565055650	East Suffolk	Toby Abrehart
Upper saltmarsh. Dominated with <i>Puccinellia maritima</i> , with <i>Spartina anglica</i> a common component		Date	Quadrat Number
		31/12/2013	732
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,20cm	
		Layers Cover	
		25%75%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	15
<i>Puccinellia maritima</i>	70
<i>Spartina anglica</i>	10

Species list

Plant Name	Plant Density
Atriplex prostrata	20
Atriplex prostrata	10
Holcus lanatus	5
Lolium perenne	2
Medicago lupulina	2
Mercurialis annua	1
Picris echioides	5
Polygonum aviculare	20

Reseda lutea	1
Sinapis alba	10
Ulex europaeus	1

Location - unit number	Grid reference	Region	Author
Unit10	TM4540555429	East Suffolk	Toby Abrehart
Sea wall base of, above the concrete impounded section. Disturbed soils after sea wall repairs. 		Date	Quadrat Number
		05/09/2013	734
		Altitude	Soil Depth
		1m	
		Stand Area	Sample Area
			4
		Layers mean height	
90cm,30cm			
Layers Cover			
20%80%			
Geology:			
clay sea wall			

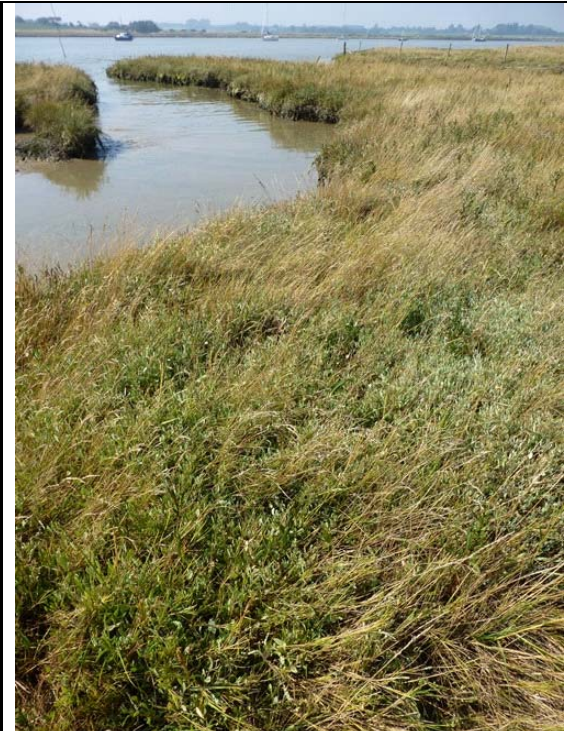
Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Bupleurum tenuissimu	20
Elytrigia atherica	60
Picris echiodes	5

Location - unit number Unit 10	Grid reference TM4537655423	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh This outer section of saltmarsh has been frequently washed, this has flattened the <i>Puccinellia maritima</i> all along this section of SM. High tide line of <i>Fucus</i> apparent all along the marsh 		Date 31/12/2013	Quadrat Number 735
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 50cm,10cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	10
<i>Atriplex portulacoides</i>	10
<i>Puccinellia maritima</i>	70
<i>Spartina anglica</i>	15
<i>Suaeda maritima</i>	2

Location - unit number Unit 10	Grid reference TM4506655469	Region East Suffolk	Author Toby Abrehart
Creek edge saltmarsh. At the sides of the creeks here the slightly higher land has created a community of Festuca rubra saltmarsh		Date 05/09/2013	Quadrat Number 736
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 25%75%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	50
Festuca rubra	20
Plantago maritima	5
Puccinellia maritima	10
Spartina anglica	5

Location - unit number	Grid reference	Region	Author
Unit10	TM4461155726	East Suffolk	Toby Abrehart
Clay sea wall. 		Date 05/09/2013	Quadrat Number 737
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm	
		Layers Cover 100%	
		Geology: clay sea wall	

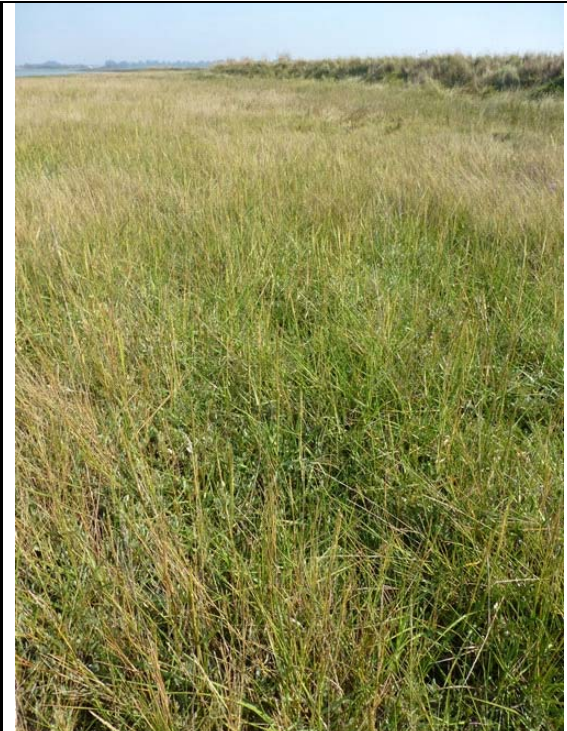
Species list

Plant Name	Plant Density
Beta vulgaris subsp. M	3
Elytrigia atherica	95
Picris echioides	1
Seriphidium maritimu	2

Location - unit number Unit 10	Grid reference TM4458855731	Region East Suffolk	Author Toby Abrehart
Saltmarsh. This entire section of saltmarsh is the same community, with small areas of <i>Spartina anglica</i> , <i>SM24</i> , and <i>Atriplex portulacoides</i> scattered throughout.		Date 05/09/2013	Quadrat Number 738
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 20%80%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	5
<i>Atriplex portulacoides</i>	30
<i>Enteromorpha linza</i>	50
<i>Limonium vulgare</i>	5
<i>Puccinellia maritima</i>	50
<i>Spartina anglica</i>	10

Location - unit number Unit 10	Grid reference TM4445856026	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh near to sea wall Dominated with <i>Atriplex portulacoides</i>		Date 31/12/2013	Quadrat Number 739
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm30cm,5mm	
		Layers Cover 30%70%50%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	65
<i>Elytrigia atherica</i>	2
<i>Limonium vulgare</i>	3
<i>Puccinellia maritima</i>	10
<i>Spartina anglica</i>	20

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Species list

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	5
Plantago maritima	5
Puccinellia maritima	40
Spartina anglica	40
Triglochin maritimum	4

Location - unit number Unit3	Grid reference TM4104856106	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh adjacent to the footpath. Pucc marit/Glaux 		Date 31/12/2013	Quadrat Number 741
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 30cm,10cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex prostrata	4
Elytrigia atherica	3
Glaux maritima	45
Juncus gerardii	40
Plantago maritima	3
Puccinellia maritima	10
Triglochin maritimum	3

Location - unit number Unit3	Grid reference TM4110156111	Region East Suffolk	Author Toby Abrehart
Middle of saltmarsh. At the back of the saltmarsh and along the creek edges 		Date 05/09/2013	Quadrat Number 742
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,50cm,20cm	
		Layers Cover 10%40%50%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	1
Atriplex patula	3
Atriplex portulacoides	30
Atriplex prostrata	1
Elytrigia atherica	50
Juncus gerardii	15

A photograph of a coastal dune area. The foreground is dominated by tall, golden-brown grasses, likely beach grass, which are blowing in the wind. Several purple flowers, possibly Salicornia or a similar coastal species, are scattered throughout the grass. In the background, a body of water (the ocean) is visible, with distant hills or islands on the horizon under a clear sky. The overall scene is a natural, coastal landscape.

Species list

Plant Name	Plant Density
<i>Atriplex prostrata</i>	1
<i>Juncus gerardii</i>	90
<i>Limonium vulgare</i>	7
<i>Phragmites australis</i>	3

A photograph showing a coastal dune landscape. The foreground is dominated by dense, dry, yellowish-brown grasses and some low-lying green plants. The terrain appears sandy and uneven. In the background, a calm body of water (the ocean) stretches to the horizon under a clear sky. A distant shoreline with trees is visible across the water.

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	5
Atriplex prostrata	4
Juncus gerardii	60
Juncus maritimus	10
Limonium vulgare	3
Plantago maritima	5
Triglochin maritimum	15

Location - unit number Unit3	Grid reference TM4100556119	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh by footpath. Dominated with Aster tripolium, spreading into the Spartina anglica beds		Date 31/12/2013	Quadrat Number 745
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,20cm	
		Layers Cover 15%85%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	10
Glaux maritima	3
Juncus gerardii	60
Puccinellia maritima	15
Triglochin maritimum	3

[illegible]

Plant Name	Plant Density
Bare mud	50
Elytrigia atherica	2
Plantago major	10
Poa annua	2
Polygonum aviculare	30

[illegible]

Plant Name	Plant Density
Aster tripolium	10
Limonium vulgare	4
Plantago maritima	3
Puccinellia maritima	10
Salicornia europaea	3
Suaeda maritima	2

[illegible]

Plant Name	Plant Density
Aster tripolium	3
Atriplex prostrata	5
Elytrigia atherica	2
Glaux maritima	35
Juncus gerardii	20
Puccinellia maritima	40
Triglochin maritimum	15

[illegible]

Plant Name	Plant Density
Aster tripolium	5
Juncus gerardii	30
Juncus maritimus	55
Limonium vulgare	4
Plantago maritima	10

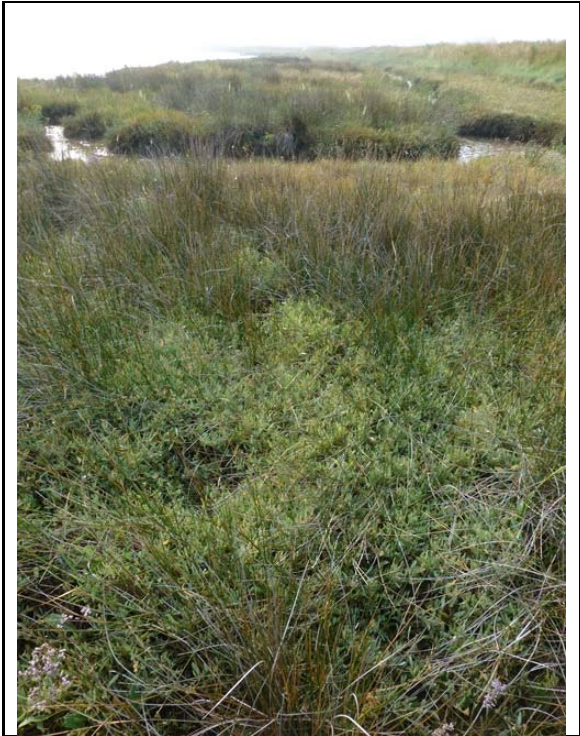
Location - unit number	Grid reference	Region	Author
Unit3	TM4025256140	East Suffolk	Toby Abrehart
Bolboscheonus swamp		Date	Quadrat Number
		05/09/2013	751
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			10
		Layers mean height	
50cm			
Layers Cover			
100%			
Geology:			
saltmarsh			

Species list

Location - unit number Unit 10	Grid reference TM4432655729	Region East Suffolk	Author Toby Abrehart
Mid saltmarsh community. <i>Spartina</i> becoming more frequent throughout this section of the site. At the outer margin of this area there is an <i>Aster tripolium</i> community developing A very narrow transition zone at the toe of the sea wall. Several large areas of <i>Juncus maritimus</i> 		Date 06/09/2013	Quadrat Number 754
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	3
<i>Limonium vulgare</i>	5
<i>Puccinellia maritima</i>	60
<i>Spartina anglica</i>	25
<i>Triglochin maritimum</i>	4

Location - unit number Unit 10	Grid reference TM4433655722	Region East Suffolk	Author Toby Abrehart
Mid section of the saltmarsh Dominated with Atriplex portulacoides and Juncus maritimus 		Date 31/12/2013	Quadrat Number 755
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	1
Atriplex portulacoides	60
Juncus maritimus	30
Limonium vulgare	4
Spartina anglica	2
Spergularia media	2

Location - unit number Unit 10	Grid reference TM4434755729	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh margin. Eroding shore Atriplex portulacoides and Aster tripolium dominated margin 1-2m wide 		Date 31/12/2013	Quadrat Number 756
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 10%90%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	55
Limonium vulgare	10
Plantago maritima	10
Puccinellia maritima	10
Spartina anglica	5

Location - unit number Unit 10	Grid reference TM4432855713	Region East Suffolk	Author Toby Abrehart
At the base of the sea wall Narrow margin of this community 1m deep before the SM24 statrts. Plantago maritima and Triglochin maritima dominated 		Date 31/12/2013	Quadrat Number 757
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Limonium vulgare	10
Plantago maritima	20
Puccinellia maritima	45
Spartina anglica	4
Spartina maritima x alt	1
Spergularia media	3
Suaeda maritima	4

Triglochin maritimum	10
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Location - unit number	Grid reference	Region	Author
Unit 10	TM4436055658	East Suffolk	Toby Abrehart
Phragmites entering the saltmarsh here, also some <i>Spartina X townsendii</i> at upper edge.		Date 31/12/2013	Quadrat Number 758
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,40cm,10cm	
		Layers Cover 40%50%20%	
		Geology: saltmarsh	
			

Species list

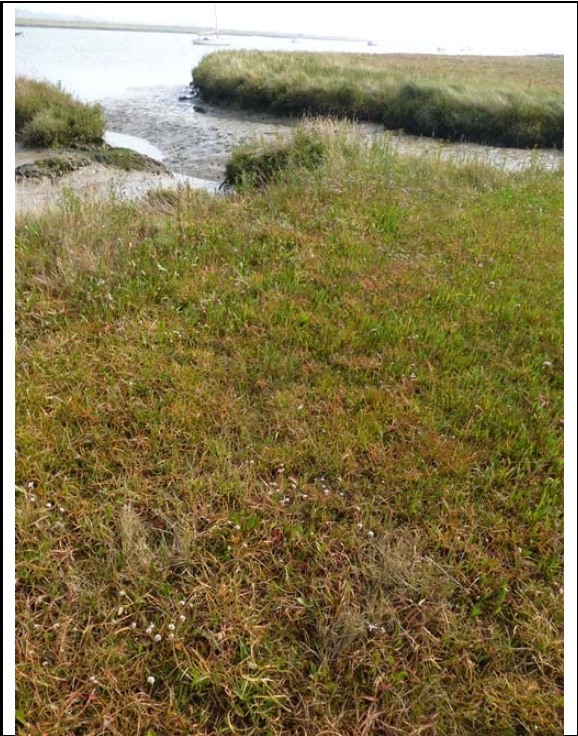
Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	50
Limonium vulgare	10
Phragmites australis	30
Plantago maritima	3
Puccinellia maritima	15
Spartina maritima x alt	2
Spergularia media	2

Suaeda maritima	2
Triglochin maritimum	4

A photograph showing a field of tall, dry, yellowish-brown grass in the foreground. The grass is blowing in the wind. In the background, there is a body of water (likely a lake or reservoir) and a distant shoreline with some buildings and hills under a clear sky. The image is framed by a white border.

Species list

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	10
<i>Dactylis glomerata</i>	15
<i>Elytrigia atherica</i>	50
<i>Malva sylvestris</i>	10
<i>Phragmites australis</i>	2
<i>Picris echioides</i>	2
<i>Sinapis alba</i>	10

Location - unit number Unit 10	Grid reference TM4464955348	Region East Suffolk	Author Toby Abrehart
Large area of saltmarsh at the outer margin of the site with a main community of SM13c. Towards the sea wall the community develops into the Pucc/Spartina community.		Date 31/12/2013	Quadrat Number 760
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 20cm10cm,0mm	
		Layers Cover 15%70%15%	
		Geology: saltmarsh	
			

Species list

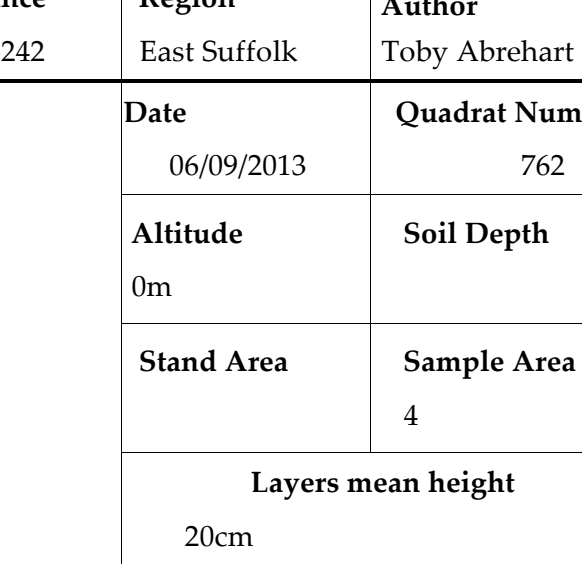
Plant Name	Plant Density
Armeria maritima	20
Aster tripolium	2
Bostrychia scorpioides	30
Limonium vulgare	20
Plantago maritima	40
Puccinellia maritima	20
Spartina maritima	2

Location - unit number Unit 10	Grid reference TM4473055231	Region East Suffolk	Author Toby Abrehart
Festuca rubra grasslands 		Date 06/09/2013	Quadrat Number 761
		Altitude 1m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,30cm	
		Layers Cover 20%80%	
		Geology: sandlings	

Species list

Plant Name	Plant Density
Arrhenatherum elatius	20
Asparagus officinalis	1
Elytrigia atherica	20
Festuca rubra	40
Holcus lanatus	4
Poa trivialis	3
Rumex crispus	3
Sonchus arvensis	5

Vicia sativa	2
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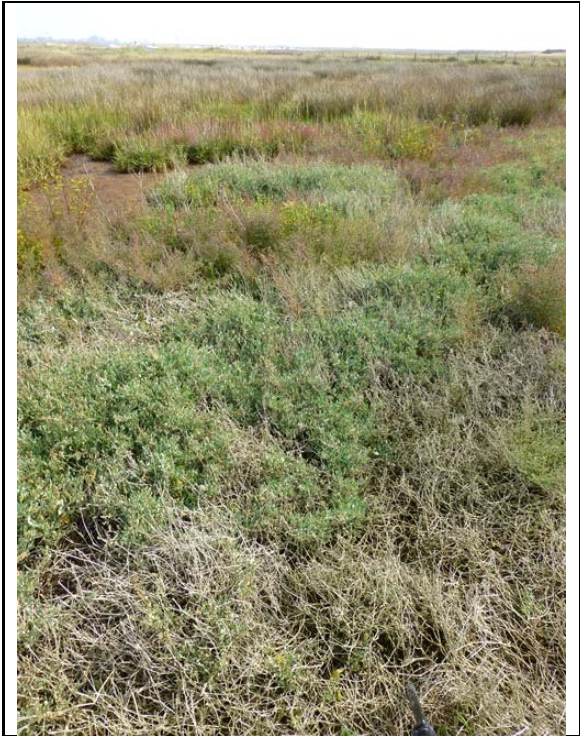
Location - unit number	Grid reference	Region	Author
Unit 10	TM4476155242	East Suffolk	Toby Abrehart
SM24 		Date	Quadrat Number
		06/09/2013	762
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		20cm	
		Layers Cover	
		100%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
<i>Elytrigia atherica</i>	100

Location - unit number	Grid reference	Region	Author
Unit 10	TM4477355254	East Suffolk	Toby Abrehart
Mid saltmarsh within the <i>Juncus maritimus</i> and <i>Atriplex portulacoides</i> saltmarsh 		Date	Quadrat Number
		06/09/2013	763
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,30cm	
		Layers Cover	
		20%80%	
		Geology:	
		saltmarsh	

Species list

Location - unit number Unit 10	Grid reference TM4498855130	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh. Dominated with Atriplex portulacoides and Suaeda maritima 		Date 06/09/2013	Quadrat Number 764
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	60
Bare mud	10
Salicornia dolichostac	1
Suaeda maritima	20

Location - unit number	Grid reference	Region	Author
Unit 10	TM4513855112	East Suffolk	Toby Abrehart
Aster tripolium saltmarsh Low lying area (flooded) Puccinellia maritima dominated leading down from Armeria maritima community		Date	Quadrat Number
		31/12/2013	765
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		35cm,15cm	
		Layers Cover	
		35%65%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	25
Limonium vulgare	10
Plantago maritima	5
Puccinellia maritima	40
Salicornia dolichostachya	1
Sarcocornia perennis	2
Spartina anglica	10
Spergularia media	2

Triglochin maritimum	25
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Location - unit number	Grid reference	Region	Author
Unit 10	TM4517055120	East Suffolk	Toby Abrehart
Festuca/Glaux grasslands An occasional narrow strip along the grassland edge.. Leads into a 1/2 m strip of Armeria maritima saltmarsh, before the Aster/Limonium community starts.		Date	Quadrat Number
		31/12/2013	766
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,20cm	
		Layers Cover	
		30%70%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	1
Elytrigia atherica	10
Festuca rubra	70
Glaux maritima	10
Juncus gerardii	9
Plantago maritima	10

Location - unit number Unit 10	Grid reference TM4553155148	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh, the main community along this section of this saltmarsh. No change in communities until the SM24 starts. No transition zone A narrow border of SM24 with much Atriplex patula 		Date 31/12/2013	Quadrat Number 768
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	15
Festuca rubra	1
Limonium vulgare	10
Plantago maritima	10
Puccinellia maritima	50
Salicornia dolichostac	1
Spartina anglica	15

Location - unit number Unit 10	Grid reference TM4604555246	Region East Suffolk	Author Toby Abrehart
Southern end of unit, No Armeria in this community Across this section of the unit this community is 70% of the site with <i>Spartina anglica</i> in the <i>Puccinellia maritima</i> 30%.		Date 31/12/2013	Quadrat Number 769
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 35cm,15cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Aster tripolium</i>	35
<i>Atriplex portulacoides</i>	10
<i>Limonium vulgare</i>	25
<i>Plantago maritima</i>	5
<i>Puccinellia maritima</i>	10
<i>Triglochin maritimum</i>	10

Location - unit number	Grid reference	Region	Author	
Unit 10	TM4602355206	East Suffolk	Toby Abrehart	
Spartina, Puccinellia maritima and Salicornia 10% of this section this community around this community was a narrow ring of Plantago maritima with Spergularia media 	Date	31/12/2013	Quadrat Number	770
	Altitude	0m	Soil Depth	
	Stand Area		Sample Area	4
	Layers mean height			
	45cm,25cm,10cm			
	Layers Cover			
	25%50%25%			
Geology:				
saltmarsh				

Species list

Plant Name	Plant Density
Aster tripolium	10
Puccinellia maritima	50
Salicornia dolichostac	1
Salicornia europaea	10
Spartina anglica	30

Location - unit number	Grid reference	Region	Author
Unit 10	TM4601155185	East Suffolk	Toby Abrehart
Edge of saltmarsh. Eroding margin. This community of Festuca rubra is regularly washed by the rising tides but is higher than the saltmarsh behind 		Date	Quadrat Number
		31/12/2013	771
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
20cm,5cm			
Layers Cover			
25%75%			
Geology:			
saltmarsh			

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	10
Festuca rubra	65
Puccinellia maritima	15
Spergularia media	3

Location - unit number Unit3	Grid reference TM4120956477	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh. This community is above the spartina community. And before the SM24,		Date 11/09/2013	Quadrat Number 797
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,20cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	70
Elytrigia atherica	2
Spergularia media	10
Suaeda maritima	15

Species list

Plant Name	Plant Density
Aster tripolium	15
Fucus vesiculosus	5
Salicornia dolichostac	10
Spartina anglica	40
Spergularia media	2

Location - unit number Unit3	Grid reference TM4120156808	Region East Suffolk	Author Toby Abrehart
Mid saltmarsh, dominated with Juncus gerardii across 90% of this area. A very narrow 1m band of Atriplex portulacoides and Aster tripolium before the Spartina anglica Abundant Aster seedlings in the soft muds 		Date 31/12/2013	Quadrat Number 799
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm	
		Layers Cover 100%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Juncus gerardii	75
Juncus maritimus	10
Triglochin maritimum	10

Location - unit number Unit3	Grid reference TM4138956806	Region East Suffolk	Author Toby Abrehart
Saltmarsh becoming swamped with Phragmites australis. 		Date 11/09/2013	Quadrat Number 800
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m,60cm	
		Layers Cover 40%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	60
Elytrigia atherica	3
Juncus gerardii	10
Phragmites australis	40

Location - unit number Unit3	Grid reference TM4144056784	Region East Suffolk	Author Toby Abrehart
Sea wall. Becoming Phragmites australis dominated		Date 11/09/2013	Quadrat Number 801
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1.2m,70cm	
		Layers Cover 60%40%	
		Geology: clay sea wall	
			

Species list

Plant Name	Plant Density
<i>Anthriscus sylvestris</i>	3
<i>Arrhenatherum elatius</i>	3
<i>Elytrigia atherica</i>	50
<i>Phragmites australis</i>	40
<i>Urtica dioica</i>	10

Location - unit number Unit5	Grid reference TM4185556873	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh Matrix of Juncus maritimus and Atriplex portulacoides Open pools with spartina and Atriplex portulacoides margins 		Date 31/12/2013	Quadrat Number 802
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm,40cm	
		Layers Cover 30%70%	
		Geology: saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	15
Atriplex prostrata	2
Elytrigia atherica	10
Juncus gerardii	40
Juncus maritimus	10
Limonium vulgare	3
Plantago maritima	2

Spartina anglica	5
Suaeda maritima	5
Triglochin maritimum	15

A photograph showing a wide, open field of tall, green grasses. A narrow, light-colored path or clearing runs diagonally from the lower left towards the upper right, leading the eye into the distance. In the far background, a calm body of water is visible under a pale, overcast sky. The horizon line is low, and some distant land features are faintly visible across the water. The overall scene is a natural, coastal or marshy landscape.

Species list

Plant Name	Plant Density
<i>Atriplex patula</i>	2
<i>Atriplex portulacoides</i>	1
<i>Elytrigia atherica</i>	80
<i>Glaux maritima</i>	10
<i>Juncus gerardii</i>	2
<i>Limonium vulgare</i>	4
<i>Phragmites australis</i>	10

A photograph showing a grassy shoreline in the foreground with some yellow flowers. In the background, there is a body of water and a distant shoreline with trees and a small building.

Species list

Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	10
Phragmites australis	10
Plantago maritima	2
Puccinellia maritima	70
Spartina anglica	2
Spergularia media	3

Location - unit number Unit5	Grid reference TM4193656844	Region East Suffolk	Author Toby Abrehart
Top of sea wall, Dominated in Phragmites		Date 31/12/2013	Quadrat Number 805
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 1m	
		Layers Cover 100%	
		Geology: clay sea wall	
			

Species list

Plant Name	Plant Density
Arrhenatherum elatius	10
Conium maculatum	3
Elytrigia atherica	10
Galium aparine	5
Phragmites australis	80
Rubus sp	2

Location - unit number	Grid reference	Region	Author
Unit5	TM4221056884	East Suffolk	Toby Abrehart
Saltmarsh, Spartina		Date	Quadrat Number
		11/09/2013	806
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		60cm,0mm	
		Layers Cover	
		70%30%	
		Geology:	
		saltmarsh	

Species list

Plant Name	Plant Density
Bare mud	30
Spartina anglica	1

Location - unit number Unit5	Grid reference TM4223056887	Region East Suffolk	Author Toby Abrehart
Mid saltmarsh Dominated with Juncus gerardii and Atriplex portulacoides		Date 31/12/2013	Quadrat Number 807
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm,10cm	
		Layers Cover 70%30%	
		Geology: saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	60
Atriplex prostrata	4
Juncus gerardii	40
Juncus maritimus	2
Puccinellia maritima	2
Triglochin maritimum	4

A photograph of a coastal wetland area. The foreground is dominated by tall, dense grasses and low-lying vegetation with small purple flowers. In the background, a body of water is visible, bordered by a line of trees and a small building on the shore.

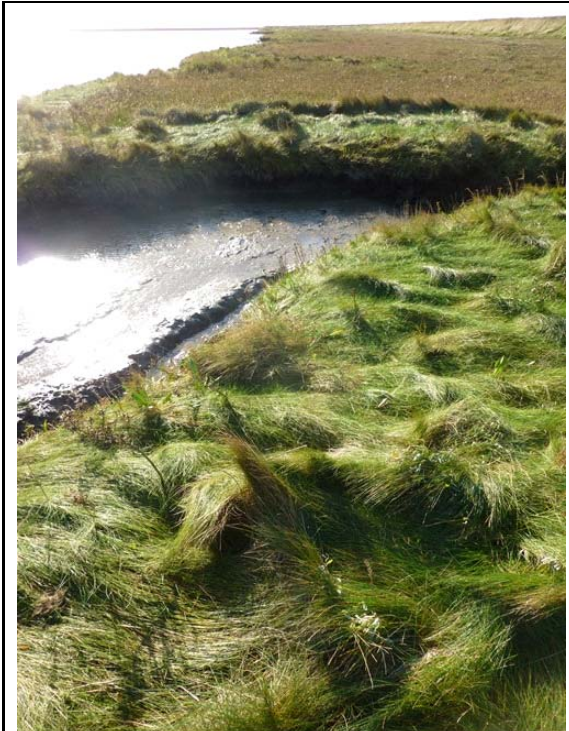
Species list

Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	35
Limonium vulgare	5
Plantago maritima	10
Puccinellia maritima	55
Triglochin maritimum	5

A photograph showing a grassy dune area. A path of dark, wet sand or mud leads from the foreground towards the water on the left. The dune is covered in dense, tall grasses, some green and some yellowed, blowing in the wind. The water is visible in the background on the left side.

Species list

Plant Name	Plant Density
Arrhenatherum elatius	10
Beta vulgaris subsp. M	10
Cirsium vulgare	3
Conium maculatum	2
Elytrigia atherica	50
Lactuca serriola	2
Phragmites australis	40
Picris echioides	3

Location - unit number	Grid reference	Region	Author
Unit 11	TM4542853498	East Suffolk	Toby Abrehart
Outer saltmarsh edge, with festuca rubra grassland, behind which the sm13c puccinellia maritim community starts to dominate. SM13c 80% sm16a 10% sm14 5% sm6 2% SM4 1% sm24 1%		Date	Quadrat Number
		29/10/2013	1444
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,10cm	
		Layers Cover	
		25%75%	
		Geology:	
		Clay saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	3
Atriplex portulacoides	3
Festuca rubra	85
Limonium vulgare	2
Triglochin maritimum	5

Location - unit number Unit 11	Grid reference TM4540853451	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh along creek edge. Atriplex dominted with pucc maritima. 10% of this section holds this community		Date 29/10/2013	Quadrat Number 1445
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 15cm,5cm	
		Layers Cover 70%30%	
		Geology: Clay saltmarsh	
			

Species list

Plant Name	Plant Density
Aster tripolium	2
Atriplex portulacoides	45
Limonium vulgare	10
Plantago maritima	5
Puccinellia maritima	50
Spartina maritima	4
Suaeda maritima	15

Location - unit number Unit 11	Grid reference TM4540853413	Region East Suffolk	Author Toby Abrehart
Vegetation developing around an old pool		Date 29/10/2013	Quadrat Number 1446
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm	
		Layers Cover 100%	
		Geology: Clay saltmarsh	
			

Species list

Plant Name	Plant Density
<i>Puccinellia maritima</i>	25
<i>Spartina anglica</i>	75

Location - unit number	Grid reference	Region	Author
Unit 11	TM4542053364	East Suffolk	Toby Abrehart
Elytrigia community at rivers edge, behind small patches of Spartina anglica within the dominant SM13c. 		Date	Quadrat Number
		31/12/2013	1447
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
		Layers mean height	
		65cm,30cm	
		Layers Cover	
		70%30%	
		Geology:	
		Clay saltmarsh	

Species list

Plant Name	Plant Density
Atriplex portulacoides	10
Elytrigia atherica	90

Location - unit number	Grid reference	Region	Author
Unit 11	TM4540453348	East Suffolk	Toby Abrehart
Upper saltmarsh SM13c with frequent <i>Armeria maritima</i> Behind this towards the sea wall is a narrow band of SM13a <i>Puccinellia maritima</i> . 		Date	Quadrat Number
		31/12/2013	1448
		Altitude	Soil Depth
		0m	
		Stand Area	Sample Area
			4
Layers mean height			
10cm,5cm			
Layers Cover			
30%70%			
Geology:			
Clay saltmarsh			

Species list

Plant Name	Plant Density
<i>Armeria maritima</i>	15
<i>Aster tripolium</i>	10
<i>Limonium vulgare</i>	20
<i>Plantago maritima</i>	4
<i>Puccinellia maritima</i>	60
<i>Salicornia dolichostac</i>	1
<i>Salicornia ramosissima</i>	2
<i>Spergularia media</i>	3

Species list

Plant Name	Plant Density
Aster tripolium	5
Festuca rubra	80
Juncus gerardii	15
Limonium vulgare	5

Location - unit number Unit 11	Grid reference TM4546453675	Region East Suffolk	Author Toby Abrehart
Large area of puccinellia and salicornia community Open water channels and pools Mosaic SM13 70%, SM8 5%, SM7 5%, SM6 10% 		Date 31/12/2013	Quadrat Number 1450
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 5cm,0cm	
		Layers Cover 70%30%	
		Geology: Clay saltmarsh	

Species list

Plant Name	Plant Density
Puccinellia maritima	10
Salicornia dolichostac	3
Salicornia europaea	10
Salicornia pusilla	10
Sarcocornia perennis	40

Location - unit number	Grid reference	Region	Author
Unit 11	TM4567054016	East Suffolk	Toby Abrehart
Small section of old sea wall, vegetation behind is lower SM13a and SM13c 		Date	Quadrat Number
		31/12/2013	1451
		Altitude	Soil Depth
		0.5m	
		Stand Area	Sample Area
			4
		Layers mean height	
		50cm,20cm	
		Layers Cover	
		60%40%	
		Geology:	
		Clay sea wall	

Species list

Plant Name	Plant Density
Elytrigia atherica	70
Festuca rubra	30
Juncus gerardii	3
Plantago maritima	2

Location - unit number Unit 10	Grid reference TM4573054572	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh next to river, 4m strip of festuca rubra with seri maritima Behind which the SM13c develops with the previously open pools now domintaeted with Spartina anglica and Puccinellia maritima 		Date 31/12/2013	Quadrat Number 1452
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 35cm,5cm	
		Layers Cover 60%40%	
		Geology: Clay saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	15
Festuca rubra	70
Limonium vulgare	5
Seriphidium maritimu	5
Suaeda maritima	2

A photograph showing a vast, flat wetland landscape. The foreground and middle ground are covered in dense, tall grasses, likely cordgrass, which are a mix of green and brown, indicating some dryness. The grasses are growing in a somewhat uniform pattern across the field. In the far background, a calm body of water is visible, reflecting the sky. The horizon line is low, and the sky is a pale, clear blue. The overall scene depicts a natural, undisturbed coastal or estuarine environment.

Species list

Plant Name	Plant Density
Aster tripolium	15
Limonium vulgare	10
Plantago maritima	5
Puccinellia maritima	50
Salicornia dolichostac	2
Spergularia media	2
Triglochin maritimum	5

Location - unit number Unit 10	Grid reference TM4571154744	Region East Suffolk	Author Toby Abrehart
Juncus maritimus community at upper saltmarsh, pools nearby with patches of Spartina anglica. 		Date 20/12/2013	Quadrat Number 1454
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 60cm,10cm	
		Layers Cover 80%30%	
		Geology: Clay saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	15
Atriplex portulacoides	5
Juncus maritimus	70
Plantago maritima	10
Puccinellia maritima	10
Salicornia dolichostac	1
Salicornia europaea	2
Spergularia media	2

Suaeda maritima	5
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Location - unit number	Grid reference	Region	Author
Unit 11	TM4342753251	East Suffolk	Toby Abrehart
Very short Puccinellia maritima community (SM13). Grazed by cattle although none present at the time of surveying. Spartina anglica at the bottom edge of the sea wall. Face of the sea wall is Elytrigia atherica grassland.		Date	Quadrat Number
		20/11/2013	1496
		Altitude	Soil Depth
		0	
		Stand Area	Sample Area
			4
		Layers mean height	
		15cm, 10cm, 5cm	
		Layers Cover	
		10%60%30%	
		Geology:	
		Saltmarsh	



Species list

Plant Name	Plant Density
Aster tripolium	20
Puccinellia maritima	70
Salicornia europaea	7
Sarcocornia perennis	3
Suaeda maritima	1
Triglochin maritimum	2

Location - unit number	Grid reference	Region	Author
Unit 11	TM4542253502	East Suffolk	Toby Abrehart
SM13c upper saltmarsh community, making up 80% of this area pf saltmarsh. Nearby creek edges dominated by Atriplex portulacoides and the front edge of the saltmarsh is dominated by Festuca rubra grassland.		Date	Quadrat Number
		31/12/2013	1497
		Altitude	Soil Depth
		0	
		Stand Area	Sample Area
			4
		Layers mean height	
		25cm, 10cm, 0cm	
		Layers Cover	
		30%60%10%	
		Geology:	
		Saltmarsh	

Species list

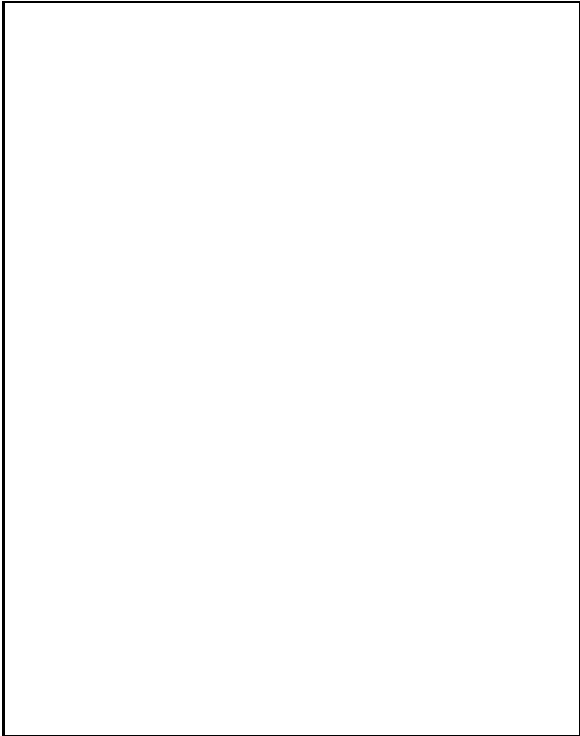
Plant Name	Plant Density
Aster tripolium	30
Atriplex portulacoides	10
Limonium vulgare	20
Plantago maritima	5
Puccinellia fasciculata	5
Puccinellia maritima	15
Salicornia ramosissima	5
Spartina maritima	8

Triglochin maritimum	5
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Location - unit number	Grid reference	Region	Author
Unit 11	TM4571754587	East Suffolk	Toby Abrehart
Spartina anglica/ Puccinellia maritima choked pool surrounded by upper saltmarsh community.		Date	Quadrat Number
		20/11/2013	1498
		Altitude	Soil Depth
		0	
		Stand Area	Sample Area
			4
		Layers mean height	
		40cm,25cm	
		Layers Cover	
		40% 60%	
		Geology:	
		Saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	2
Puccinellia maritima	50
Salicornia dolichostac	5
Spartina anglica	40
Spergularia media	2

Location - unit number	Grid reference	Region	Author
Unit5	TM4344456558	East Suffolk	Toby Abrehart
Top of the sea wall, SM24 dominated community with some ruderal species. Some work has been carried out along this section 		Date 20/12/2013	Quadrat Number 1527
		Altitude 2m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 70cm, 35cm	
		Layers Cover 65%35%	
		Geology: Clay sea wall	

Species list

Plant Name	Plant Density
<i>Anthriscus sylvestris</i>	2
<i>Arrhenatherum elatius</i>	25
<i>Draba incana</i>	1
<i>Elytrigia atherica</i>	70
<i>Rumex crispus</i>	3
<i>Vicia sativa</i>	1

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
1	John Doe	Medical	Open	2023-01-01	10:00	Room 101	John Doe, 45 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 95, RR 20, SpO2 98% on room air. Physical exam: clear lungs, no crackles, no wheezes. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: anxiety disorder. Patient was reassured and discharged home with instructions to return if symptoms worsen.	Initial assessment and diagnosis. Patient is stable and discharged.	Follow-up appointment scheduled for 2 weeks.
2	Jane Smith	Medical	Closed	2023-01-02	11:30	Room 102	Jane Smith, 32 years old, female, presented with a sore throat and difficulty swallowing. Vital signs: BP 110/70, HR 75, RR 18, SpO2 99% on room air. Physical exam: mild tonsillitis, no exudate. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: viral tonsillitis. Patient was prescribed antibiotics and pain relievers. Patient returned 3 days later for follow-up and was discharged home.	Follow-up appointment. Patient is improved and discharged.	Discharge summary completed.
3	Michael Brown	Medical	Open	2023-01-03	14:00	Room 103	Michael Brown, 60 years old, male, presented with a persistent cough and wheezing. Vital signs: BP 130/90, HR 100, RR 22, SpO2 95% on room air. Physical exam: hyperinflated lungs, wheezing throughout. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: asthma. Patient was prescribed inhalers and was discharged home.	Initial assessment and diagnosis. Patient is stable and discharged.	Follow-up appointment scheduled for 4 weeks.
4	Sarah Johnson	Medical	Closed	2023-01-04	15:30	Room 104	Sarah Johnson, 28 years old, female, presented with a fever, chills, and fatigue. Vital signs: BP 100/60, HR 105, RR 20, SpO2 98% on room air. Physical exam: tachycardia, no crackles, no wheezes. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: viral infection. Patient was prescribed antiviral medication and was discharged home.	Follow-up appointment. Patient is improved and discharged.	Discharge summary completed.
5	David Wilson	Medical	Open	2023-01-05	16:00	Room 105	David Wilson, 55 years old, male, presented with a headache and dizziness. Vital signs: BP 140/90, HR 85, RR 18, SpO2 99% on room air. Physical exam: normal. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: tension headache. Patient was prescribed pain relievers and was discharged home.	Initial assessment and diagnosis. Patient is stable and discharged.	Follow-up appointment scheduled for 2 weeks.
6	Emily Davis	Medical	Closed	2023-01-06	17:00	Room 106	Emily Davis, 38 years old, female, presented with a sore throat and difficulty swallowing. Vital signs: BP 115/75, HR 75, RR 18, SpO2 99% on room air. Physical exam: mild tonsillitis, no exudate. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: viral tonsillitis. Patient was prescribed antibiotics and pain relievers. Patient returned 3 days later for follow-up and was discharged home.	Follow-up appointment. Patient is improved and discharged.	Discharge summary completed.
7	Robert Miller	Medical	Open	2023-01-07	18:00	Room 107	Robert Miller, 70 years old, male, presented with a persistent cough and wheezing. Vital signs: BP 135/95, HR 105, RR 22, SpO2 95% on room air. Physical exam: hyperinflated lungs, wheezing throughout. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: asthma. Patient was prescribed inhalers and was discharged home.	Initial assessment and diagnosis. Patient is stable and discharged.	Follow-up appointment scheduled for 4 weeks.
8	Lisa Anderson	Medical	Closed	2023-01-08	19:00	Room 108	Lisa Anderson, 42 years old, female, presented with a fever, chills, and fatigue. Vital signs: BP 105/65, HR 100, RR 20, SpO2 98% on room air. Physical exam: tachycardia, no crackles, no wheezes. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: viral infection. Patient was prescribed antiviral medication and was discharged home.	Follow-up appointment. Patient is improved and discharged.	Discharge summary completed.
9	James Taylor	Medical	Open	2023-01-09	20:00	Room 109	James Taylor, 65 years old, male, presented with a headache and dizziness. Vital signs: BP 145/95, HR 85, RR 18, SpO2 99% on room air. Physical exam: normal. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: tension headache. Patient was prescribed pain relievers and was discharged home.	Initial assessment and diagnosis. Patient is stable and discharged.	Follow-up appointment scheduled for 2 weeks.
10	Maria Garcia	Medical	Closed	2023-01-10	21:00	Room 110	Maria Garcia, 35 years old, female, presented with a sore throat and difficulty swallowing. Vital signs: BP 110/70, HR 75, RR 18, SpO2 99% on room air. Physical exam: mild tonsillitis, no exudate. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: viral tonsillitis. Patient was prescribed antibiotics and pain relievers. Patient returned 3 days later for follow-up and was discharged home.	Follow-up appointment. Patient is improved and discharged.	Discharge summary completed.

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	15
<i>Limonium vulgare</i>	5
<i>Puccinellia maritima</i>	20
<i>Spartina anglica</i>	60

Location - unit number Unit8	Grid reference TM4351656473	Region East Suffolk	Author Toby Abrehart
Outer saltmarsh, <i>Spartina anglica</i> spreading through this community		Date 31/12/2013	Quadrat Number 1529
		Altitude 0	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm, 15cm	
		Layers Cover 35%65%	
		Geology: Saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	15
Limonium vulgare	5
Plantago maritima	3
Puccinellia maritima	65
Spartina anglica	10

Location - unit number Unit8	Grid reference TM4350156421	Region East Suffolk	Author Toby Abrehart
Towards the rear of the saltmarsh the community becomes dominated with Puccinellia and has Spartina anglica spreading through.		Date 20/12/2013	Quadrat Number 1531
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 40cm, 10cm	
		Layers Cover 30%70%	
		Geology: Saltmarsh	

Species list

Plant Name	Plant Density
Limonium vulgare	10
Plantago maritima	3
Puccinellia maritima	70
Spartina anglica	15

Location - unit number Unit8	Grid reference TM4360056403	Region East Suffolk	Author Toby Abrehart
Upper saltmarsh community at the base of the sea wall further along from the Phragmites australis. There is a very narrow band of SM11 running along the base of the SM24 		Date 20/12/2013	Quadrat Number 1533
		Altitude 0m	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height 65cm, 30cm	
		Layers Cover 55%45%	
		Geology: Saltmarsh	

Species list

Plant Name	Plant Density
Aster tripolium	50
Elytrigia atherica	15
Limonium vulgare	4
Plantago maritima	2
Puccinellia maritima	30
Spartina anglica	4

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
1	John Doe	Medical	Open	2023-01-01	10:00	Room 101	John Doe, 45 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98% on room air. Physical exam: clear lungs, no crackles, no wheezes. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: anxiety disorder. Patient was reassured and discharged home with instructions to return if symptoms worsen.	Initial assessment and diagnosis. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
2	Jane Smith	Medical	Open	2023-01-02	11:30	Room 102	Jane Smith, 60 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 80, RR 18, SpO2 98% on room air. Physical exam: mild abdominal tenderness in the right upper quadrant. Labs: WBC 12,000, Hgb 12, Plt 250. Initial diagnosis: cholecystitis. Patient was admitted to the hospital and started on antibiotics and pain management.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
3	Michael Brown	Medical	Open	2023-01-03	14:00	Room 103	Michael Brown, 30 years old, male, presented with a fever and cough. Vital signs: BP 100/60, HR 100, RR 22, SpO2 95% on room air. Physical exam: clear lungs, no crackles, no wheezes. Labs: WBC 15,000, Hgb 12, Plt 250. Initial diagnosis: pneumonia. Patient was admitted to the hospital and started on antibiotics and oxygen therapy.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
4	Sarah Johnson	Medical	Open	2023-01-04	16:00	Room 104	Sarah Johnson, 55 years old, female, presented with a headache and dizziness. Vital signs: BP 130/90, HR 80, RR 18, SpO2 98% on room air. Physical exam: normal. Labs: WBC 10,000, Hgb 12, Plt 250. Initial diagnosis: migraine. Patient was admitted to the hospital and started on pain management and anti-nausea medication.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
5	David Wilson	Medical	Open	2023-01-05	18:00	Room 105	David Wilson, 70 years old, male, presented with a fall and injury. Vital signs: BP 140/90, HR 90, RR 20, SpO2 98% on room air. Physical exam: bruising on the left arm and leg. Labs: WBC 10,000, Hgb 12, Plt 250. Initial diagnosis: trauma. Patient was admitted to the hospital and started on pain management and monitoring.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
6	Emily Davis	Medical	Open	2023-01-06	19:00	Room 106	Emily Davis, 25 years old, female, presented with a rash and itching. Vital signs: BP 110/70, HR 80, RR 18, SpO2 98% on room air. Physical exam: red, raised rash on the torso. Labs: WBC 10,000, Hgb 12, Plt 250. Initial diagnosis: allergic reaction. Patient was admitted to the hospital and started on antihistamines and steroids.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
7	Robert Miller	Medical	Open	2023-01-07	20:00	Room 107	Robert Miller, 65 years old, male, presented with a chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98% on room air. Physical exam: clear lungs, no crackles, no wheezes. ECG: normal sinus rhythm. Chest X-ray: clear lungs. Initial diagnosis: anxiety disorder. Patient was reassured and discharged home with instructions to return if symptoms worsen.	Initial assessment and diagnosis. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
8	Lisa Anderson	Medical	Open	2023-01-08	21:00	Room 108	Lisa Anderson, 40 years old, female, presented with a headache and dizziness. Vital signs: BP 130/90, HR 80, RR 18, SpO2 98% on room air. Physical exam: normal. Labs: WBC 10,000, Hgb 12, Plt 250. Initial diagnosis: migraine. Patient was admitted to the hospital and started on pain management and anti-nausea medication.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
9	James Taylor	Medical	Open	2023-01-09	22:00	Room 109	James Taylor, 50 years old, male, presented with a fever and cough. Vital signs: BP 100/60, HR 100, RR 22, SpO2 95% on room air. Physical exam: clear lungs, no crackles, no wheezes. Labs: WBC 15,000, Hgb 12, Plt 250. Initial diagnosis: pneumonia. Patient was admitted to the hospital and started on antibiotics and oxygen therapy.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.
10	Alice White	Medical	Open	2023-01-10	23:00	Room 110	Alice White, 35 years old, female, presented with a rash and itching. Vital signs: BP 110/70, HR 80, RR 18, SpO2 98% on room air. Physical exam: red, raised rash on the torso. Labs: WBC 10,000, Hgb 12, Plt 250. Initial diagnosis: allergic reaction. Patient was admitted to the hospital and started on antihistamines and steroids.	Admission and initial treatment. Patient is stable and improving.	Discharge instructions provided. Patient is stable and improving.

Plant Name	Plant Density
Aster tripolium	75
Puccinellia maritima	25

Location - unit number Unit8	Grid reference TM4413756803	Region East Suffolk	Author Toby Abrehart
Spartina marsh		Date 20/12/2013	Quadrat Number 1537
		Altitude 0	Soil Depth
		Stand Area	Sample Area 4
		Layers mean height	
		Layers Cover	
		Geology:	

Species list

Plant Name	Plant Density
Aster tripolium	10
Atriplex portulacoides	3
Puccinellia maritima	20
Spartina anglica	65
Suaeda maritima	2

[illegible]

Species list

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
1	John Doe	Medical	Open	2023-01-01	10:00	Room 101	John Doe, 45 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
2	Jane Smith	Medical	Closed	2023-01-02	14:30	Room 202	Jane Smith, 60 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.
3	Michael Brown	Medical	Open	2023-01-03	08:15	Room 303	Michael Brown, 30 years old, male, presented with dizziness and lightheadedness. Vital signs: BP 90/60, HR 100, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed low hemoglobin levels.	Admitted to the medical ward for blood transfusion.
4	Sarah Johnson	Medical	Closed	2023-01-04	11:45	Room 404	Sarah Johnson, 55 years old, female, presented with headache and blurred vision. Vital signs: BP 130/90, HR 85, RR 17, SpO2 97%.	ECG showed normal sinus rhythm. CT scan of the head showed no abnormalities.	Discharged home with oral painkillers.
5	David Wilson	Medical	Open	2023-01-05	09:30	Room 505	David Wilson, 70 years old, male, presented with confusion and disorientation. Vital signs: BP 140/100, HR 110, RR 22, SpO2 98%.	ECG showed sinus tachycardia. Blood tests showed elevated blood sugar levels.	Admitted to the medical ward for further observation.
6	Emily Davis	Medical	Closed	2023-01-06	13:20	Room 606	Emily Davis, 25 years old, female, presented with fever and cough. Vital signs: BP 100/70, HR 95, RR 20, SpO2 96%.	ECG showed normal sinus rhythm. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics.
7	Robert Miller	Medical	Open	2023-01-07	10:10	Room 707	Robert Miller, 65 years old, male, presented with chest pain and sweating. Vital signs: BP 150/110, HR 120, RR 24, SpO2 97%.	ECG showed ST-segment elevation. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
8	Lisa Anderson	Medical	Closed	2023-01-08	15:05	Room 808	Lisa Anderson, 40 years old, female, presented with abdominal pain and diarrhea. Vital signs: BP 115/75, HR 80, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.
9	James Taylor	Medical	Open	2023-01-09	08:45	Room 909	James Taylor, 50 years old, male, presented with dizziness and lightheadedness. Vital signs: BP 95/65, HR 105, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed low hemoglobin levels.	Admitted to the medical ward for blood transfusion.
10	Amanda White	Medical	Closed	2023-01-10	12:30	Room 1010	Amanda White, 35 years old, female, presented with headache and blurred vision. Vital signs: BP 135/95, HR 85, RR 17, SpO2 97%.	ECG showed normal sinus rhythm. CT scan of the head showed no abnormalities.	Discharged home with oral painkillers.
11	Christopher Lee	Medical	Open	2023-01-11	09:15	Room 1111	Christopher Lee, 75 years old, male, presented with confusion and disorientation. Vital signs: BP 145/105, HR 115, RR 22, SpO2 98%.	ECG showed sinus tachycardia. Blood tests showed elevated blood sugar levels.	Admitted to the medical ward for further observation.
12	Michelle Garcia	Medical	Closed	2023-01-12	14:00	Room 1212	Michelle Garcia, 20 years old, female, presented with fever and cough. Vital signs: BP 105/70, HR 95, RR 20, SpO2 96%.	ECG showed normal sinus rhythm. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics.
13	Kevin Martinez	Medical	Open	2023-01-13	10:45	Room 1313	Kevin Martinez, 60 years old, male, presented with chest pain and sweating. Vital signs: BP 155/115, HR 125, RR 24, SpO2 97%.	ECG showed ST-segment elevation. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
14	Stephanie Hall	Medical	Closed	2023-01-14	13:45	Room 1414	Stephanie Hall, 45 years old, female, presented with abdominal pain and diarrhea. Vital signs: BP 115/75, HR 80, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.
15	Gregory King	Medical	Open	2023-01-15	08:30	Room 1515	Gregory King, 55 years old, male, presented with dizziness and lightheadedness. Vital signs: BP 95/65, HR 105, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed low hemoglobin levels.	Admitted to the medical ward for blood transfusion.
16	Angela Scott	Medical	Closed	2023-01-16	12:15	Room 1616	Angela Scott, 30 years old, female, presented with headache and blurred vision. Vital signs: BP 135/95, HR 85, RR 17, SpO2 97%.	ECG showed normal sinus rhythm. CT scan of the head showed no abnormalities.	Discharged home with oral painkillers.
17	Benjamin Adams	Medical	Open	2023-01-17	09:00	Room 1717	Benjamin Adams, 70 years old, male, presented with confusion and disorientation. Vital signs: BP 145/105, HR 115, RR 22, SpO2 98%.	ECG showed sinus tachycardia. Blood tests showed elevated blood sugar levels.	Admitted to the medical ward for further observation.
18	Christina Baker	Medical	Closed	2023-01-18	14:45	Room 1818	Christina Baker, 25 years old, female, presented with fever and cough. Vital signs: BP 105/70, HR 95, RR 20, SpO2 96%.	ECG showed normal sinus rhythm. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics.
19	Jonathan Clark	Medical	Open	2023-01-19	10:30	Room 1919	Jonathan Clark, 65 years old, male, presented with chest pain and sweating. Vital signs: BP 155/115, HR 125, RR 24, SpO2 97%.	ECG showed ST-segment elevation. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
20	Victoria Evans	Medical	Closed	2023-01-20	13:30	Room 2020	Victoria Evans, 40 years old, female, presented with abdominal pain and diarrhea. Vital signs: BP 115/75, HR 80, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.

Plant Name	Plant Density
Aster tripolium	4
Atriplex portulacoides	60
Juncus maritimus	20
Spartina anglica	20

Case No.	Case Name	Case Type	Case Status	Case Date	Case Time	Case Location	Case Description	Case Notes	Case Comments
1	John Doe	Medical	Open	2023-01-01	10:00	Room 101	John Doe, 45 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
2	Jane Smith	Medical	Closed	2023-01-02	14:30	Room 202	Jane Smith, 60 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.
3	Michael Brown	Medical	Open	2023-01-03	08:15	Room 303	Michael Brown, 30 years old, male, presented with dizziness and lightheadedness. Vital signs: BP 90/60, HR 100, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed low hemoglobin levels.	Admitted to the medical ward for blood transfusion.
4	Sarah Johnson	Medical	Closed	2023-01-04	11:45	Room 404	Sarah Johnson, 55 years old, female, presented with headache and blurred vision. Vital signs: BP 130/90, HR 80, RR 18, SpO2 97%.	ECG showed normal sinus rhythm. CT scan of the head showed no abnormalities.	Discharged home with oral painkillers.
5	David Wilson	Medical	Open	2023-01-05	09:30	Room 505	David Wilson, 70 years old, male, presented with weakness and fatigue. Vital signs: BP 100/70, HR 85, RR 16, SpO2 96%.	ECG showed normal sinus rhythm. Blood tests showed low iron levels.	Admitted to the medical ward for iron supplementation.
6	Emily Davis	Medical	Closed	2023-01-06	13:00	Room 606	Emily Davis, 25 years old, female, presented with fever and cough. Vital signs: BP 110/70, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics.
7	Robert Miller	Medical	Open	2023-01-07	10:45	Room 707	Robert Miller, 65 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
8	Lisa Anderson	Medical	Closed	2023-01-08	15:15	Room 808	Lisa Anderson, 40 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.
9	James Taylor	Medical	Open	2023-01-09	08:30	Room 909	James Taylor, 50 years old, male, presented with dizziness and lightheadedness. Vital signs: BP 90/60, HR 100, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed low hemoglobin levels.	Admitted to the medical ward for blood transfusion.
10	Maria Garcia	Medical	Closed	2023-01-10	11:00	Room 1010	Maria Garcia, 35 years old, female, presented with headache and blurred vision. Vital signs: BP 130/90, HR 80, RR 18, SpO2 97%.	ECG showed normal sinus rhythm. CT scan of the head showed no abnormalities.	Discharged home with oral painkillers.
11	Christopher Lee	Medical	Open	2023-01-11	09:15	Room 1111	Christopher Lee, 75 years old, male, presented with weakness and fatigue. Vital signs: BP 100/70, HR 85, RR 16, SpO2 96%.	ECG showed normal sinus rhythm. Blood tests showed low iron levels.	Admitted to the medical ward for iron supplementation.
12	Amanda White	Medical	Closed	2023-01-12	13:45	Room 1212	Amanda White, 20 years old, female, presented with fever and cough. Vital signs: BP 110/70, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics.
13	Kevin Black	Medical	Open	2023-01-13	10:30	Room 1313	Kevin Black, 60 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
14	Nicole Green	Medical	Closed	2023-01-14	14:00	Room 1414	Nicole Green, 45 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.
15	Brandon Hall	Medical	Open	2023-01-15	08:45	Room 1515	Brandon Hall, 30 years old, male, presented with dizziness and lightheadedness. Vital signs: BP 90/60, HR 100, RR 16, SpO2 95%.	ECG showed sinus bradycardia. Blood tests showed low hemoglobin levels.	Admitted to the medical ward for blood transfusion.
16	Stephanie King	Medical	Closed	2023-01-16	11:30	Room 1616	Stephanie King, 55 years old, female, presented with headache and blurred vision. Vital signs: BP 130/90, HR 80, RR 18, SpO2 97%.	ECG showed normal sinus rhythm. CT scan of the head showed no abnormalities.	Discharged home with oral painkillers.
17	Timothy Scott	Medical	Open	2023-01-17	09:00	Room 1717	Timothy Scott, 70 years old, male, presented with weakness and fatigue. Vital signs: BP 100/70, HR 85, RR 16, SpO2 96%.	ECG showed normal sinus rhythm. Blood tests showed low iron levels.	Admitted to the medical ward for iron supplementation.
18	Michelle Adams	Medical	Closed	2023-01-18	13:15	Room 1818	Michelle Adams, 25 years old, female, presented with fever and cough. Vital signs: BP 110/70, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Discharged home with oral antibiotics.
19	Gregory Baker	Medical	Open	2023-01-19	10:15	Room 1919	Gregory Baker, 65 years old, male, presented with chest pain and shortness of breath. Vital signs: BP 120/80, HR 90, RR 20, SpO2 98%.	ECG showed sinus tachycardia. Chest X-ray showed clear lung fields.	Admitted to the medical ward for further observation.
20	Heather Clark	Medical	Closed	2023-01-20	14:45	Room 2020	Heather Clark, 40 years old, female, presented with abdominal pain and nausea. Vital signs: BP 110/70, HR 75, RR 18, SpO2 96%.	ECG showed normal sinus rhythm. Abdominal ultrasound showed no abnormalities.	Discharged home with oral painkillers.

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	5
Elytrigia atherica	5
Limonium vulgare	15
Puccinellia maritima	60
Spartina anglica	10

[illegible]

Plant Name	Plant Density
Aster tripolium	10
Limonium vulgare	15
Puccinellia maritima	60
Spartina anglica	15

[illegible]

Plant Name	Plant Density
<i>Atriplex portulacoides</i>	10
<i>Elytrigia atherica</i>	10
<i>Limonium vulgare</i>	5
<i>Plantago maritima</i>	2
<i>Puccinellia maritima</i>	65
<i>Spartina anglica</i>	15
<i>Triglochin maritimum</i>	1

[illegible]

Plant Name	Plant Density
Aster tripolium	1
Atriplex portulacoides	10
Elytrigia atherica	75
Festuca rubra	5
Juncus maritimus	2

[illegible]

Plant Name	Plant Density
Aster tripolium	5
Atriplex portulacoides	10
Elytrigia atherica	10
Festuca rubra	70
Puccinellia maritima	5

[illegible]

Plant Name	Plant Density
<i>Arrhenatherum elatius</i>	5
<i>Dactylis glomerata</i>	3
<i>Elytrigia atherica</i>	80
<i>Galium aparine</i>	2
<i>Phragmites australis</i>	10

