Improvement Programme for England's Natura 2000 Sites (IPENS) – Planning for the Future IPENS039

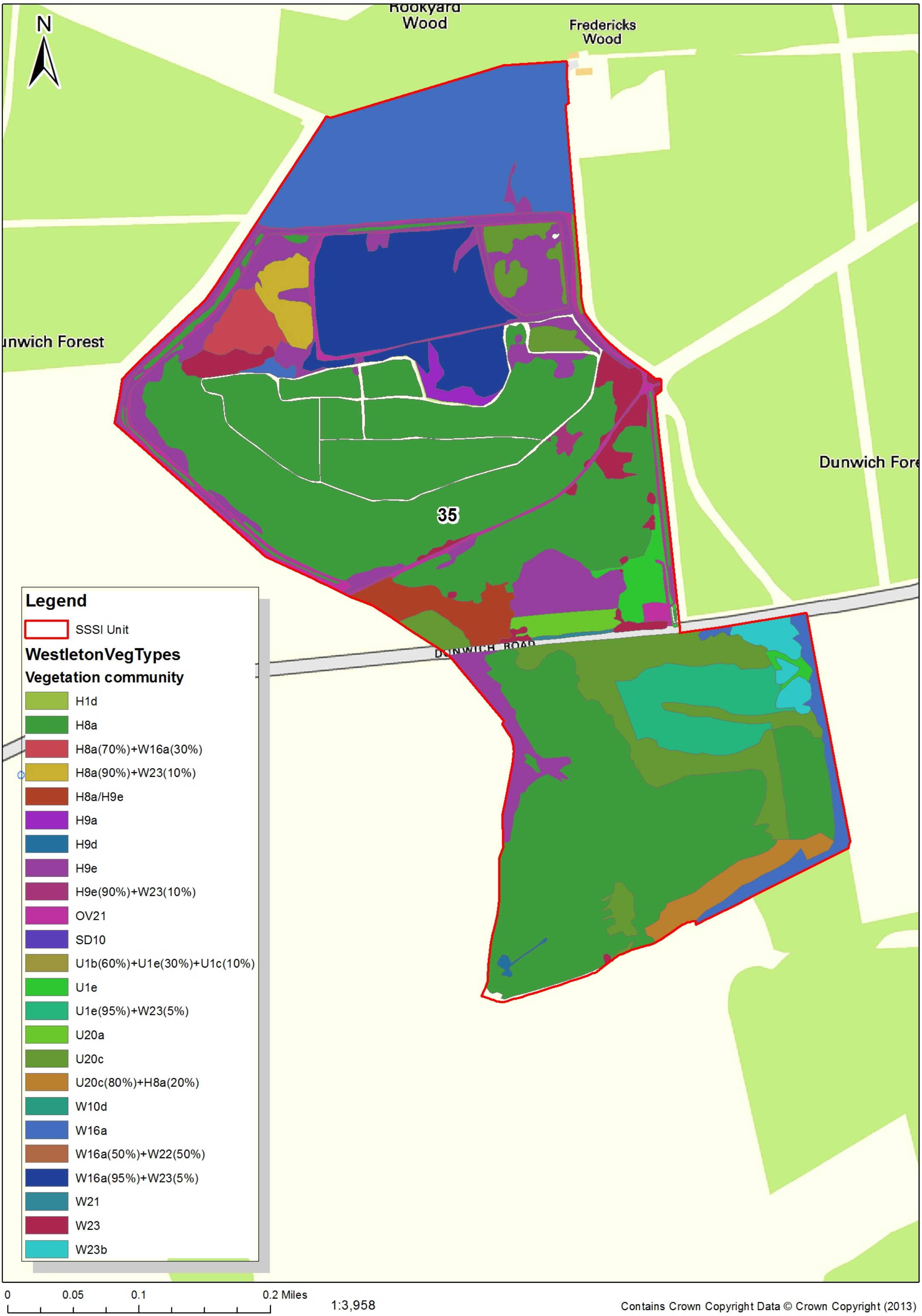
Westleton Heath NNR NVC 2013

Appendices

First published 16 July 2015

www.gov.uk/government/publications/improvement-programme-for-englands-natura-2000-sites-ipens

Appendix A:
NVC maps—unit by unit—35, 107 and 108 of the Minsmere-Walberswick Heaths & Marshes SSSI – Walberswick NNR Area



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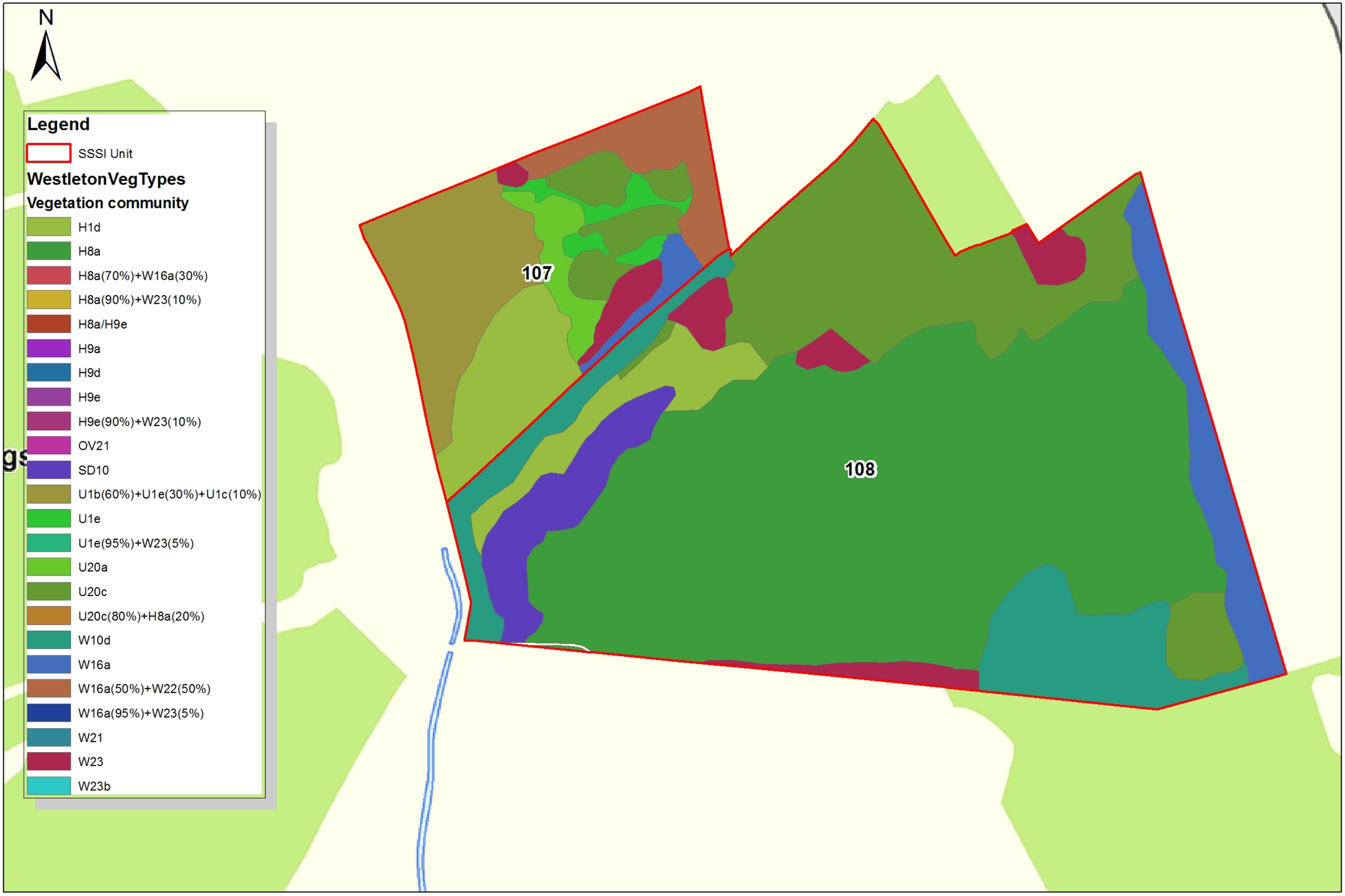

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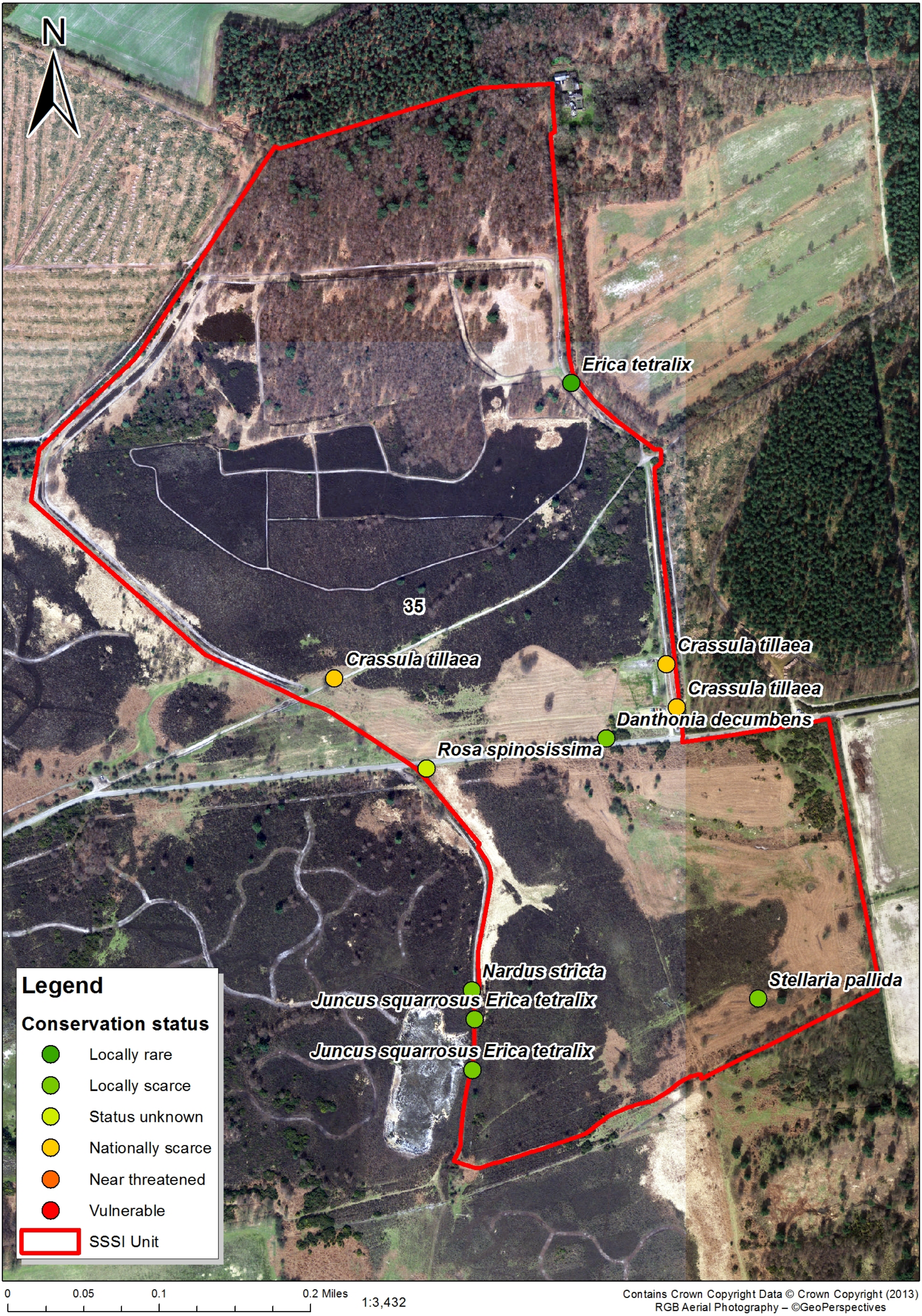
N
Erica tetralix
35
Crassula tillaea
Crassula tillaea
Crassula tillaea
Danthonia decumbens
Rosa spinosissima
Nardus stricta
Juncus squarrosus Erica tetralix
Juncus squarrosus Erica tetralix
Stellaria pallida
Legend
Conservation status
Locally rare
Locally scarce
Status unknown
Nationally scarce
Near threatened
Vulnerable
SSSI Unit
0
0.05
0.1
0.2 Miles
1:3,432
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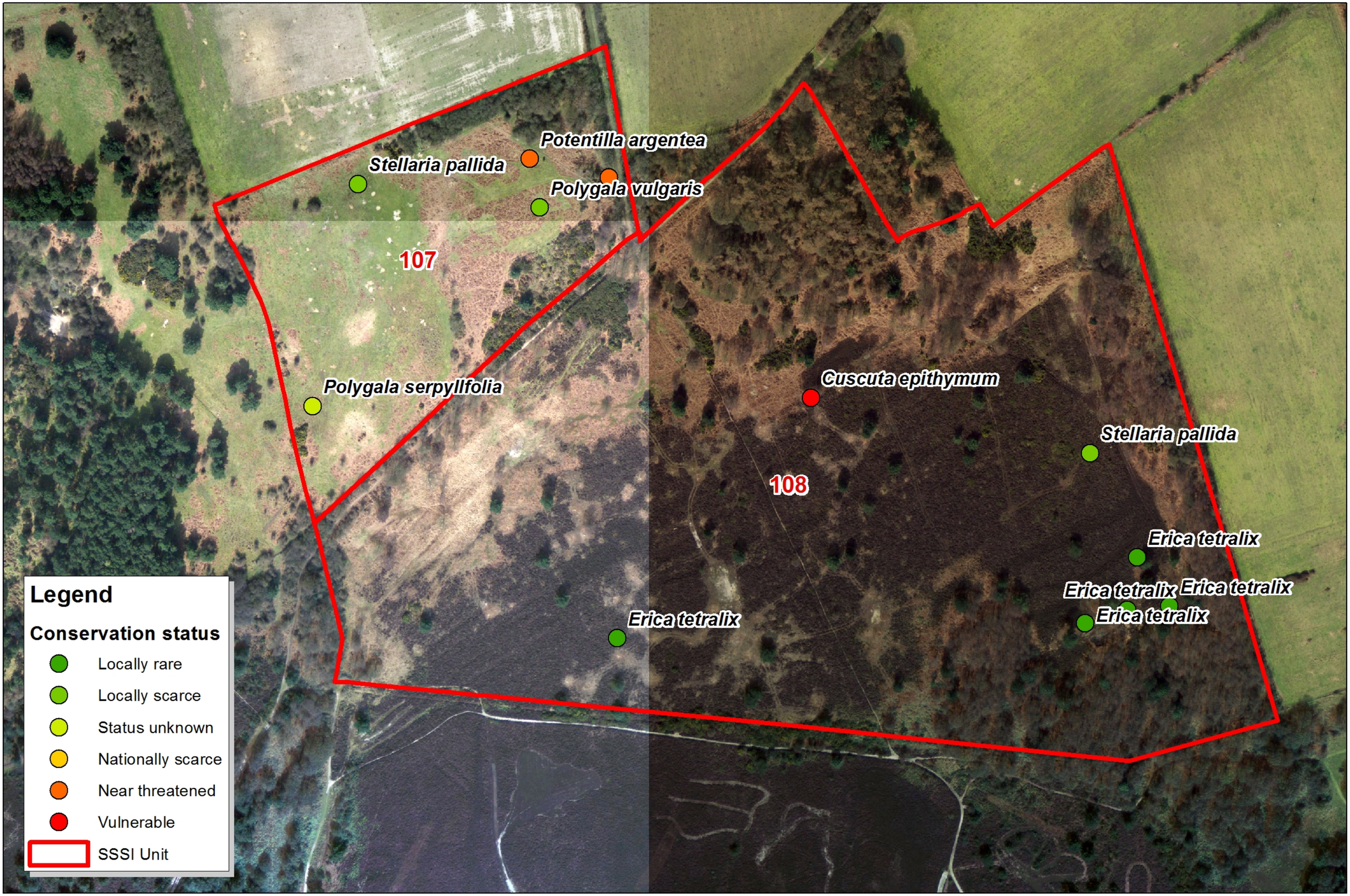

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1:1,943

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0 0.05 0.1 0.2 Miles 1:3,406

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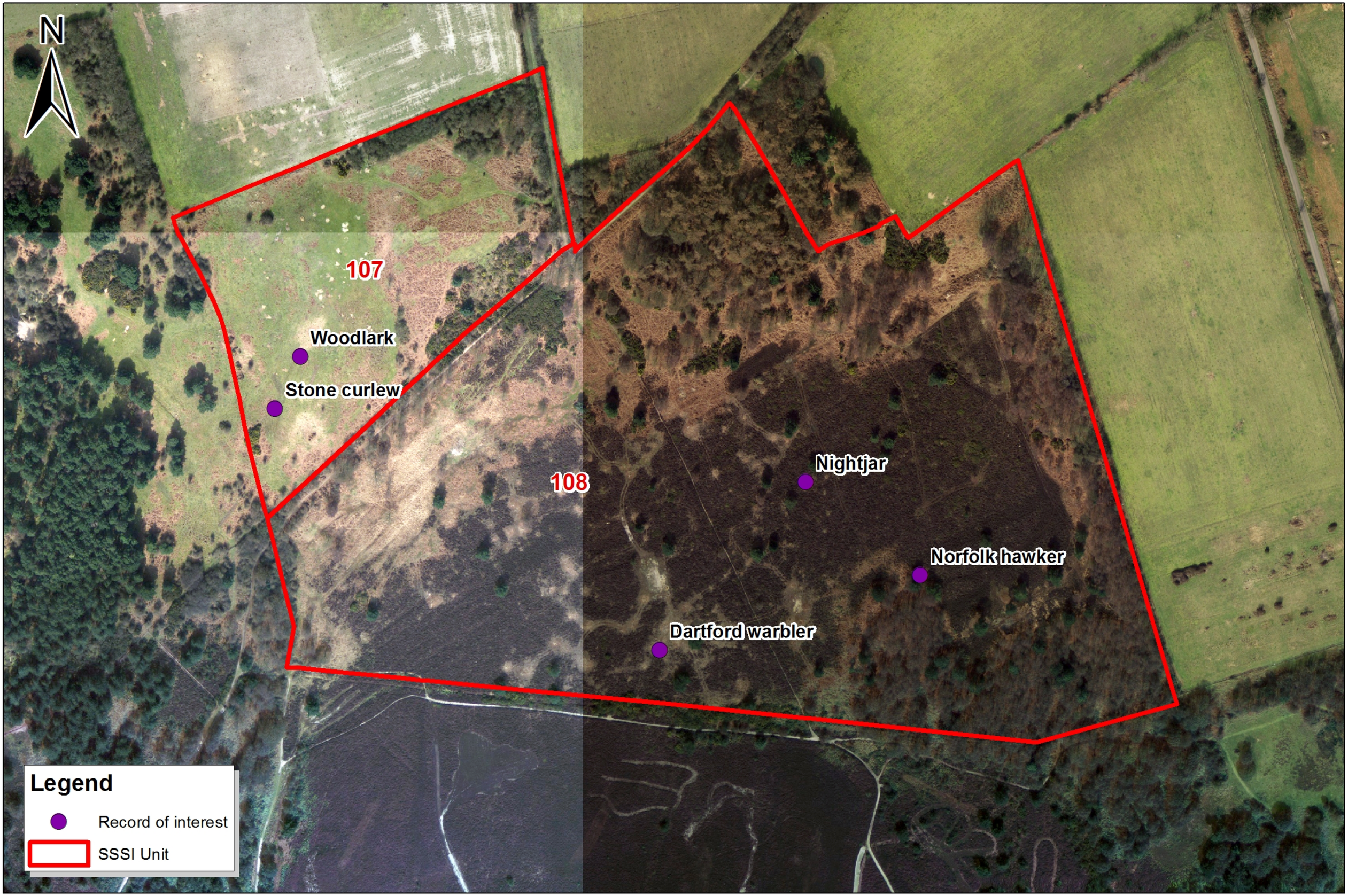
RGB Aerial Photography – ©GeoPerspectives



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1:2,065

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Appendix B:
Quadrat data location and target note maps— units 35, 107 and 108 of the Minsmere-Walberswick Heaths & Marshes SSSI – Walberswick NNR Area

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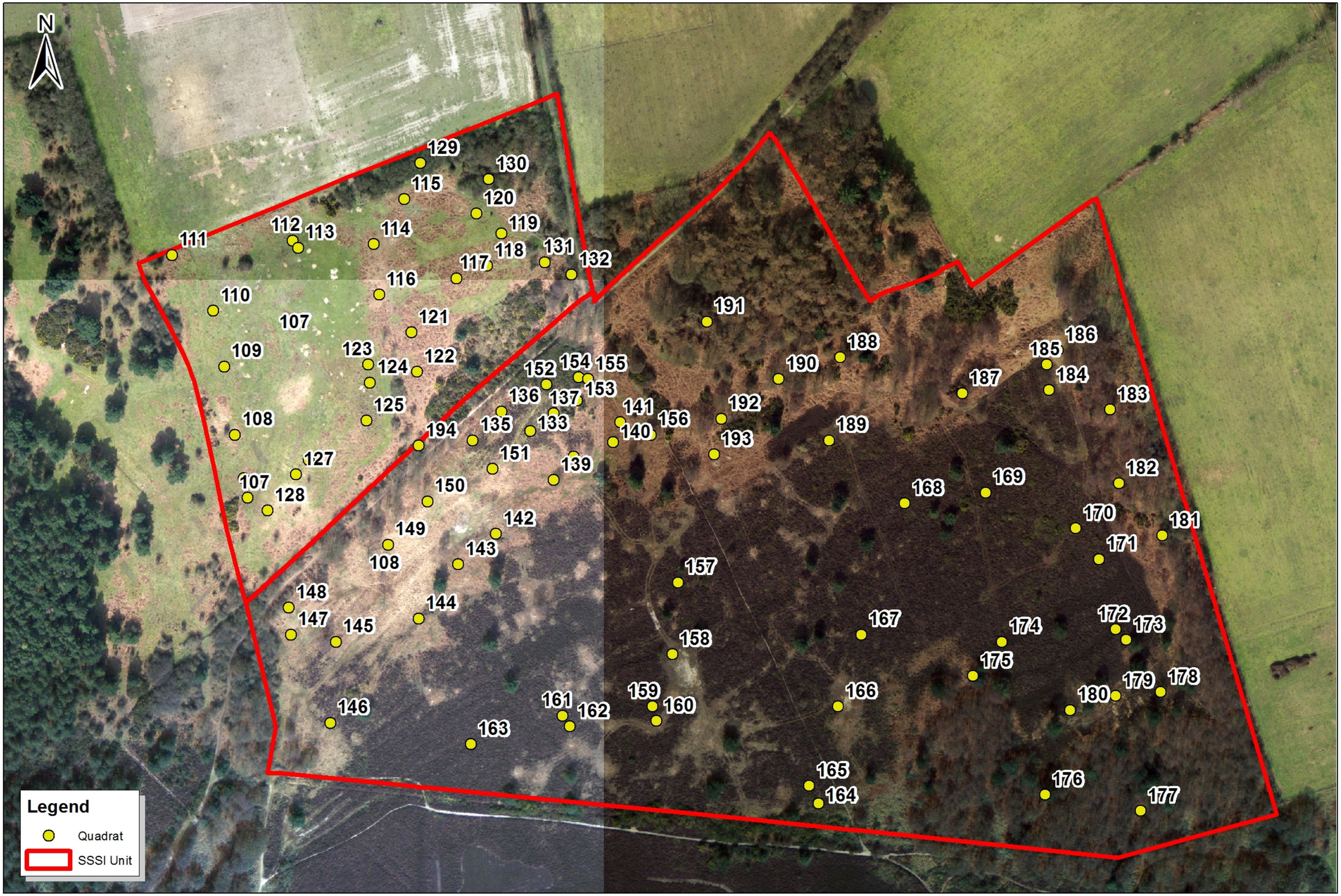

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1:1,823

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Appendix C:
Vegetation species data per unit of the Minsmere-Walberswick Heaths & Marshes SSSI – Walberswick NNR Area Units 35, 107 and 108

Species	H1d	H1e	H8a	H9a	H9d	H9e
Achillea millefolium			x			
Agrostis capillaris	x		x	x	x	x
Agrostis vinealis	x		x		x	
Aira caryophyllea	x					
Aira praecox		x				x
Anagallis arvensis			x			
Anthoxanthum odoratum	x					
Aphanes australis	x					x
Arenaria serpyllifolia subsp. leptoclados	x					
Betula pendula	x		x			x
Calluna vulgaris	x	x	x	x	x	x
Campylopus introflexus	x		x			x
Carex arenaria	x	x	x			x
Carex muricata	x					
Carex nigra						x
Carex pilulifera	x		x	x	x	x
Cerastium fontanum	x		x			
Cerastium semidecandrum	x		x			x
Ceratocapnos claviculata	x			x		x
Chamerion angustifolium						x
Cirsium vulgare			x			
Cladonia crispata			x			
Cladonia coccifera						x
Cladonia fimbriata			x		x	x
Cladonia portentosa		x	x			
Cladonia squamosa						x
Conopodium majus			x			
Crassula tillaea	x					x
Deschampsia cespitosa			x			
Deschampsia flexuosa			x	x		x
Dicranum scoparium			x	x	x	x
Erica cinerea	x	x	x	x	x	x
Erica tetralix	x		x			x
Festuca filiformis	x		x			x
Festuca ovina	x	x	x	x	x	x
Filago vulgaris			x			
Galium saxatile	x	x	x	x	x	x
Glechoma hederacea	x					
Holcus lanatus	x		x	x		
Hypnum cupressiforme	x		x	x	x	x

Table C1. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

H1d Calluna vulgaris-Festuca ovina heath, Carex arenaria sub-community
H1e Calluna vulgaris-Festuca ovina heath, species-poor sub-community
H8a Calluna vulgaris-Ulex gallii heath, species-poor sub-community
H9a Calluna vulgaris-Deschampsia flexuosa heath, Hypnum cupressiforme sub-community
H9d Calluna vulgaris-Deschampsia flexuosa heath, Galium saxatile sub-community
H9e Calluna vulgaris-Deschampsia flexuosa heath, Molinia caerulea sub-community

Species	H1d	H1e	H8a	H9a	H9d	H9e
Hypochaeris glabra	x					
Hypochaeris radicata			x			
Juncus bufonius			x			x
Juncus effusus			x			
Juncus squarrosus	x		x			
Lonicera periclymenum	x		x			
Lotus corniculatus			x			
Luzula multiflora	x	x	x			x
Molinia caerulea	x		x			x
Ornithopus perpusillus	x					
Pinus sylvestris			x			
Plantago coronopus	x		x			x
Plantago major	x		x			x
Poa annua	x		x	x		x
Poa pratensis			x			
Polygonum aviculare			x			
Polytrichum commune		x				x
Polytrichum juniperinum			x			x
Potentilla erecta						x
Potentilla reptans	x					
Pseudoscleropodium purum			x	x	x	x
Pteridium aquilinum	x		x		x	x
Pteridium thatch		x			x	x
Quercus robur	x		x			x
Rubus sp	x		x			x
Rumex acetosella	x	x	x	x	x	x
Sagina apetala	x					x
Sagina procumbens						x
Salix cinerea subsp. Cinerea			x			
Senecio jacobaea	x					x
Senecio viscosus			x			
Spergularia rubra	x					
Stellaria media		x				
Stellaria pallida			x	x		
Teucrium scorodonia			x			
Trifolium repens	x					
Ulex europaeus			x			
Ulex gallii			x			x
Urtica dioica			x			
Veronica arvensis						x
Veronica officinalis	x		x			
Vulpia bromoides	x		x			

Table C2. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

H1d Calluna vulgaris-Festuca ovina heath, Carex arenaria sub-community
H1e Calluna vulgaris-Festuca ovina heath, species-poor sub-community
H8a Calluna vulgaris-Ulex gallii heath, species-poor sub-community
H9a Calluna vulgaris-Deschampsia flexuosa heath, Hypnum cupressiforme sub-community
H9d Calluna vulgaris-Deschampsia flexuosa heath, Galium saxatile sub-community
H9e Calluna vulgaris-Deschampsia flexuosa heath, Molinia caerulea sub-community

Table C3. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

Species	OV21a	SD10a	SD10b
Agrostis capillaris			x
Aira praecox			x
Aphanes australis	x		
Betula pendula			x
Bromus hordeaceus	x		
Calluna vulgaris		x	x
Campylopus introflexus	x		x
Carex arenaria		x	x
Carex pilulifera			x
Carex pulicaris			x
Cerastium fontanum	x		x
Cerastium glomeratum	x		
Cerastium semidecandrum	x		
Ceratocapnos claviculata			x
Cirsium vulgare	x		
Crassula tillaea	x		
Deschampsia flexuosa			x
Dicranum scoparium			x
Epilobium ciliatum	x		
Erica cinerea			x
Erodium cicutarium	x		
Festuca filiformis			x
Filago vulgaris	x		
Galium saxatile			x
Gnaphalium uliginosum	x		
Holcus lanatus			x
Holcus mollis	x		
Hypnum cuppressiforme			x
Lolium perenne	x		
Lonicera periclymenum			x
Luzula multiflora			x
Medicago lupulina	x		
Plantago coronopus	x		
Plantago major	x		
Poa annua	x		x
Polygonum aviculare	x		
Pteridium aquilinum		x	x
Rubus sp		x	x
Rumex acetosella			x
Sagina apetala	x		
Sagina procumbens	x		
Sedum acre	x		
Senecio jacobaea	x		
Sorbus aucuparia			x
Spergularia rubra	x		
Trifolium repens	x		
Veronica chamaedrys			x
Veronica officinalis			x
Vulpia bromoides			x

OV21a Poa annua-Plantago major community, typical sub-community
SD10a Carex arenaria dune community, Festuca rubra sub-community
SD10b Carex arenaria dune community, Festuca ovina sub-community

Table C4. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

Species	U1b	U1c	U1e	U20a	U20c
Agrostis capillaris	x	x	x	x	x
Agrostis stolonifera				x	
Agrostis vinealis				x	
Aira caryophyllea	x	x	x		
Aira praecox				x	
Anthoxanthum odoratum	x		x	x	x
Aphanes australis		x	x	x	
Betula pendula		x			x
Calluna vulgaris	x	x	x		x
Campylopus introflexus	x		x	x	x
Carex arenaria			x		x
Carex muricata	x	x	x		
Carex pilulifera			x		x
Centaurium erythraea		x	x		
Cerastium fontanum			x	x	x
Cerastium media		x			
Cerastium semidecandrum	x	x	x	x	
Ceratocapnos claviculata					x
Cladonia fimbriata	x	x	x		
Cladonia portentosa			x		
Crataegus monogyna			x		
Deschampsia flexuosa					x
Dicranum scoparium	x	x	x		x
Erica cinerea		x	x	x	x
Erica tetralix					x
Erodium cicutarium		x			
Festuca filiformis	x			x	x
Festuca ovina	x	x	x	x	x
Galeopsis tetrahit					x
Galium aparine					x
Galium saxatile	x	x	x	x	x
Galium verum	x		x		
Glechoma hederacea		x		x	
Gnaphalium uliginosum					
Holcus lanatus	x	x	x	x	x
Holcus mollis				x	
Hypericum humifusum				x	
Hypnum cupressiforme	x	x	x	x	x
Juncus effusus					x
Leontodon taraxacoides	x				
Lonicera periclymenum				x	x
Lotus corniculatus		x	x	x	
Luzula multiflora	x	x	x	x	
Moenchia erecta				x	

U1b Festuca ovina-Agrostis capillaris-Rumex acetosella grassland, typical sub-community
U1c Festuca ovina-Agrostis capillaris-Rumex acetosella grassland, Erodium cicutarium-Teesdalia nudicaulis sub-community
U1e Festuca ovina-Agrostis capillaris-Rumex acetosella grassland, Galium saxatile-Potentilla erecta sub-community
U20a Pteridium aquilinum-Galium saxatile community, Anthoxanthum odoratum sub-community
U20c Pteridium aquilinum-Galium saxatile community, species-poor sub-community

Table C5. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

Species	U1b	U1c	U1e	U20a	U20c
Myosotis arvensis				x	
Myosotis discolor		x		x	
Myosotis ramosissima		x		x	
Ornithopus perpusillus		x		x	
Peltigera canina		x			
Pilosella officinarum	x	x	x	x	
Poa annua		x		x	
Poa trivialis		x			
Polygala serpyllifolia		x			
Polygala vulgaris					x
Polytrichum juniperinum					x
Potentilla anglica	x	x	x		
Potentilla argentea			x		
Pseudoscleropodium purum		x	x		x
Pteridium aquilinum	x	x	x	x	x
Pteridium thatch					x
Quercus ilex		x	x		
Quercus robur					x
Rubus sp		x		x	x
Rumex acetosella	x	x	x	x	x
Rumex crispus		x		x	
Rumex obtusifolius				x	x
Sagina apetala		x		x	
Sagina procumbens			x		
Senecio jacobaea			x	x	
Silene dioica					x
Stellaria graminea	x				
Stellaria media				x	
Stellaria pallida		x			
Teucrium scorodonia					x
Trifolium arvensis				x	
Trifolium repens					
Ulex europaeus			x		x
Urtica dioica		x		x	
Verbascum thapsus				x	
Veronica arvensis	x	x	x	x	
Veronica chamaedrys	x	x	x	x	x
Veronica officinalis	x	x	x	x	x
Veronica persica	x				
Veronica serpyllifolia		x			
Vicia lathyroides				x	
Viola riviana	x				
Vulpia bromoides		x	x	x	

U1b Festuca ovina-Agrostis capillaris-Rumex acetosella grassland, typical sub-community

U1c Festuca ovina-Agrostis capillaris-Rumex acetosella grassland, Erodium cicutarium-Teesdalia nudicaulis sub-community

U1e Festuca ovina-Agrostis capillaris-Rumex acetosella grassland, Galium saxatile-Potentilla erecta sub-community

U20a Pteridium aquilinum-Galium saxatile community, Anthoxanthum odoratum sub-community

U20c Pteridium aquilinum-Galium saxatile community, species-poor sub-community

Species	W10c	W10d	W16a	W21a	W22	W23	W23b
Agrostis vinealis		x					x
Aira praecox							x
Anthoxanthum odoratum		x					x
Aphanes australis		x					
Arenaria serpyllifolia subsp. leptoclados							x
Betula pendula	x	x	x			x	
Brachyhecium velutina			x				
Calluna vulgaris	x		x				x
Campylopus introflexus			x				x
Carex arenaria		x	x				x
Carex pilulifera	x	x					x
Carex pulicaris							x
Cerastium fontanum		x		x			
Cerastium semidecandrum		x					
Ceratocapnos claviculata			x			x	
Chamerion angustifolium							x
Claytonia perfoliata					x		
Crataegus monogyna		x	x	x			
Deschampsia cespitosa		x					
Deschampsia flexuosa			x				
Dicranum scoparium	x		x				
Dryopteris filix-mas							x
Epilobium ciliatum							x
Erica cinerea			x				x
Festuca filiformis			x				x
Festuca ovina		x	x				x
Galium aparine			x				
Galium saxatile		x	x				x
Glechoma hederacea			x		x		
Holcus lanatus		x	x	x			
Holcus mollis							x
Hypnum cupressiforme	x		x				x
Ilex aquifolium			x			x	
Juncus bufonius							x
Leucobryum glaucum			x				
Lonicera periclymenum		x	x			x	
Lotus corniculatus							x
Luzula multiflora			x				x
Molinia caerulea			x			x	
Myosotis arvensis				x			
Pilosella officinarum							x
Pinus sylvestris			x				

Table C6. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

W10c Quercus robur-Pteridium aquilinum-Rubus fruticosus woodland, Hedera helix sub-community
W10d Quercus robur-Pteridium aquilinum-Rubus fruticosus woodland, Holcus lanatus sub-community
W16a Quercus spp.-Betula spp.-Deschampsia flexuosa woodland, Quercus robur sub-community
W21a Crataegus monogyna-Hedera helix scrub, Hedera helix-Urtica dioica sub-community
W22 Prunus spinosa-Rubus fruticosus scrub
W23 Ulex europaeus-Rubus fruticosus scrub
W23b Ulex europaeus-Rubus fruticosus scrub, Rumex acetosella sub-community

Species	W10c	W10d	W16a	W21a	W22	W23	W23b
Poa annua			x	x			
Poa trivialis		x	x				
Polytrichum commune			x				
Polytrichum formosum						x	
Polytrichum juniperinum			x				
Potentilla erecta		x					
Potentilla reptans		x					
Prunus cerasifera			x		x		
Pseudoscleropodium purum			x			x	
Pteridium aquilinum	x	x	x	x			
Quercus robur		x	x	x			
Rosa canina							x
Rubus sp		x	x	x			
Rubus spectabilis			x				
Rumex acetosella	x	x					x
Senecio jacobaea				x			
Senecio viscosus							x
Sonchus asper							x
Sonchus oleraceus							x
Sorbus aucuparia				x			
Stellaria media				x			
Teucrium scorodonia		x	x				x
Ulex europaeus			x	x			
Ulex gallii							x
Ulmus minor							x
Ulmus minor subsp. Minor		x	x				x
Urtica dioica			x	x			
Veronica chamaedrys			x	x			
Veronica officinalis		x		x			
Vulpia bromoides							x

Table C7. The occurrence of plant species in NVC communities found at Westleton Heath NNR and units 107 and 108, undertaken for Natural England by Abrehart Ecology in June 2013. Additional species observed during the survey are also listed.

W10c Quercus robur-Pteridium aquilinum-Rubus fruticosus woodland, Hedera helix sub-community
W10d Quercus robur-Pteridium aquilinum-Rubus fruticosus woodland, Holcus lanatus sub-community
W16a Quercus spp.-Betula spp.-Deschampsia flexuosa woodland, Quercus robur sub-community
W21a Crataegus monogyna-Hedera helix scrub, Hedera helix-Urtica dioica sub-community
W22 Prunus spinosa-Rubus fruticosus scrub
W23 Ulex europaeus-Rubus fruticosus scrub
W23b Ulex europaeus-Rubus fruticosus scrub, Rumex acetosella sub-community

Acer pseudoplatanus	*Jasione montana*
Agrimonia eupatoria	*Koeleria macrantha*
Agrostis stolonifera	*Lamium album*
Alopecurus pratensis	*Nardus stricta*
Arctium minus	*Persicaria hydropiper*
Arrhenatherum elatius	*Phleum bertolonii*
Bellis perennis	*Plantago lanceolata*
Bryonia dioica	*Potentilla argentea*
Capsella bursa-pastoris	*Prunella vulgaris*
Castanea sativa	*Prunus spinosa*
Centaurea nigra	*Ranunculus bulbosus*
Chaerophyllum temulum	*Ranunculus repens*
Cirsium arvense	*Rosa spinosissima*
Cochlearia danica	*Rubus caesius*
Dactylis glomerata	*Rumex acetosa*
Danthonia decumbens	*Salvia verbenaca*
Festuca rubra	*Senecio sylvaticus*
Galium aparine	*Senecio viscosus*
Galium verum	*Silene latifolia*
Geranium pusillum	*Trifolium campestre*
Geum urbanum	*Trisetum flavescens*
Hypericum perforatum	*Viola odorata*

Table C8. Additional species found at Westleton Heath NNR and units 107 and 108 during the , NVC community surveys undertaken for Natural England by Abrehart Ecology in June 2013.

Appendix D:
Quadrat data sets for all quadrats of the Minsmere-Walberswick Heaths & Marshes SSSI – Walberswick NNR Area Units 35, 107 and 108

Westleton Heath NNR

Location - unit number	Grid referance	Region	Author
Unit 107	TM4680068890	East Suffolk	Toby Abrehart

Grass heath at the western end of the unit. Well grazed by rabbits and red deer.

Calluna has been heavily grazed and has colapsed with a little regrowth

Date	Quadrat Number
15/12/2013	106
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

5cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	10
Aira caryophyllea	1
Calluna vulgaris	5
Cladonia fimbriata	1
Dicranum scoparium	2
Erica cinerea	20
Festuca ovina	40
Galium saxatile	5
Holcus lanatus	1
Luzula multiflora	2
Pilosella officinarum	2
Poa annua	1
Polygala serpyllifolia	1
Potentilla anglica	2
Pseudoscleropodium	10
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4680268879	East Suffolk	Toby Abrehart

Well grazed grass heath, Rumex acetosella is dominant with some Calluna vulgaris though small and very low and well grazed. Species rich habitat with 19 species recorded

Date	Quadrat Number
19/12/2013	107
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

5cm

Layers Cover

100%

Geology:

sandy heath

Species list

Plant Name	Plant Density
Agrostis capillaris	20
Bare sand - rabbit dist	3
Calluna vulgaris	5
Campylopus introflex	15
Cladonia fimbriata	2
Dicranum scoparium	2
Festuca filiformis	1
Festuca ovina	40
Galium saxatile	5
Galium verum	2
Holcus lanatus	2
Hypnum cupressiform	1
Leontodon taraxacoide	1
Luzula multiflora	5
Potentilla argentea	3
Rumex acetosella	20

Location - unit number	Grid referance	Region	Author
Unit 107	TM4679568914	East Suffolk	Toby Abrehart

Grazed by rabbits, grass heathland. More grass than heathers. It is at western end of unit. The area once held Pteridium aquilinum though this has ben cut/treated and was only obvious from the old vegetation. Species rich grasslands developing.

Date	Quadrat Number
19/12/2013	108
Altitude	**Soil Depth**
0	0
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy heath

Species list

Plant Name	Plant Density
Aira caryophyllea	1
Anthoxanthum odorat	1
Campylopus introflex	2
Carex muricata	1
Dicranum scoparium	1
Festuca ovina	40
Galium saxatile	5
Galium verum	1
Holcus lanatus	2
Lotus corniculatus	1
Luzula multiflora	5
Pilosella officinarum	1
Potentilla anglica	5
Pteridium aquilinum	1
Rumex acetosella	40
Senecio jacobaea	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4678968952	East Suffolk	Toby Abrehart

Agrostis capillaris heath. At western end of site. Grazed by rabbits and red deer
Very occasional Pteridium aquilinum through this area, it appears to much reduced in area.

Date	Quadrat Number
19/12/2013	109
Altitude	**Soil Depth**
	0
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy heath

Species list

Plant Name	Plant Density
Agrostis capillaris	40
Aira caryophyllea	1
Anthoxanthum odorat	2
Calluna vulgaris	10
Campylopus introflex	5
Cerastium fontanum	1
Festuca ovina	15
Galium saxatile	4
Hypnum cupressiform	10
Luzula multiflora	2
Pteridium aquilinum	1
Rumex acetosella	30
Senecio jacobaea	1
Veronica arvensis	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4678368983	East Suffolk	Toby Abrehart

A small area of heath with well grazed grasses. Abundant rabbits and red deer in the area. Very short turf with 17 species recorded

Date	Quadrat Number
19/12/2013	110
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm

Layers Cover

100%

Geology:

sandy heath

Species list

Plant Name	Plant Density
Aira caryophyllea	1
Anthoxanthum odorat	5
Calluna vulgaris	5
Campylopus introflex	5
Erica cinerea	5
Festuca ovina	50
Galium saxatile	3
Holcus lanatus	3
Hypnum cupressiform	2
Luzula multiflora	2
Pteridium aquilinum	1
Rumex acetosella	30
Sagina procumbens	1
Senecio jacobaea	1
Veronica arvensis	1
Veronica offinalis	2

Location - unit number	Grid referance	Region	Author
Unit 107	TM4676069014	East Suffolk	Toby Abrehart

This area of heath holds more Pteridium aquilinum along the north western edge. Noticable Pteridium aquilinum across this section of the heath. Though apparently much reduced from the recent past

Date	Quadrat Number
19/12/2013	111
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

20cm, 5cm

Layers Cover

15%85%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Aira caryophyllea	1
Anthoxanthum odorat	10
Carex muricata	1
Cerastium semidecand	1
Festuca ovina	30
Galium saxatile	2
Holcus lanatus	25
Luzula multiflora	5
Pilosella officinarum	1
Potentilla anglica	1
Pteridium aquilinum	4
Rumex acetosella	10
Senecio jacobaea	1
Stellaria graminea	1
Veronica arvensis	1
Veronica chamaedrys	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4682769022	East Suffolk	Toby Abrehart

Very short grazed heath grassland. No heathers here, surrounded by rabbit burrows

Date	Quadrat Number
18/06/2013	112
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

4cm

Layers Cover

100%

Geology:

sandy heath

Species list

Plant Name	Plant Density
Aphanes australis	1
Betula pendula	1
Centaurium erythraea	1
Cerastium semidecand	1
Cladonia fimbriata	1
Erodium cicutarium	1
Festuca ovina	30
Hypnum cupressiform	30
Lotus corniculatus	1
Luzula multiflora	1
Myosotis discolor	1
Myosotis ramosissima	1
Ornithopus perpusillu	1
Peltigera canina	1
Poa annua	1
Poa trivialis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4683069018	East Suffolk	Toby Abrehart

Rabbit disturbed grassland, abundant rabbit droppings. Heavily cropped some more ruderal species within this warren area.

Date	Quadrat Number
19/12/2013	113
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m
Layers mean height	
4cm	
Layers Cover	
100%	
Geology:	
sandy heath	

Species list

Plant Name	Plant Density
Agrostis capillaris	5
Aira praecox	1
Aphanes australis	5
Bare soil	20
Cerastium semidecand	15
Festuca ovina	5
Hypnum cupressiform	3
Lotus corniculatus	1
Myosotis arvensis	1
Myosotis discolor	1
Ornithopus perpusillu	1
Poa annua	1
Rumex acetosella	50
Sagina apetela	2
Trifolium arvensis	1
Urtica dioica	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4687269020	East Suffolk	Toby Abrehart

Area of cleared Pteridium aquilinum and scrub with developing grassland with frequent Glechoma hederacea

Date	Quadrat Number
19/12/2013	114
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	15
Bare soil	2
Carex muricata	1
Cerastium media	1
Cerastium semidecand	1
Glechoma hederacea	25
Holcus lanatus	35
Pteridium aquilinum	1
Rumex acetosella	8
Rumex crispus	1
Urtica dioica	1
Veronica arvensis	1
Veronica chamaedrys	2
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4688969045	East Suffolk	Toby Abrehart

Cleared Pteridium aquilinum from site, grassland developing

Date	Quadrat Number
19/12/2013	115
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm,5cm

Layers Cover

10%90%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Cerastium fontanum	1
Glechoma hederacea	40
Holcus lanatus	40
Myosotis arvensis	1
Rumex acetosella	5
Rumex crispus	1
Rumex obtusifolius	1
Senecio jacobaea	2

Stellaria media	1
Urtica dioica	7
Verbascum thapsus	1
Veronica arvensis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4687568992	East Suffolk	Toby Abrehart

Cleared Pteridium aquilinum from site in centre, this area is quickly becoming vegetated with grasses

Date	Quadrat Number
19/12/2013	116
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm,5cm

Layers Cover

10%90%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis stolonifera	1
Anthoxanthum odorat	3
Holcus lanatus	80
Myosotis ramosissima	1
Pteridium aquilinum	1
Rumex acetosella	1
Stellaria media	1
Urtica dioica	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4691869001	East Suffolk	Toby Abrehart

Anthoxanthum odoratum dominated grassland

Date	Quadrat Number
15/12/2013	117
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

25cm, 5cm

Layers Cover

75%25%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis vinealis	5
Anthoxanthum odorat	50
Festuca ovina	10
Galium saxatile	5
Holcus mollis	5
Pteridium aquilinum	1
Rubus sp	1
Rumex acetosella	15
Senecio jacobaea	1
Veronica chamaedrys	1
Veronica officinalis	1
Vicia lathyroides	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4693569008	East Suffolk	Toby Abrehart

Anthoxanthum odoratum grassland with Common milkwort

Date	Quadrat Number
18/06/2013	118
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

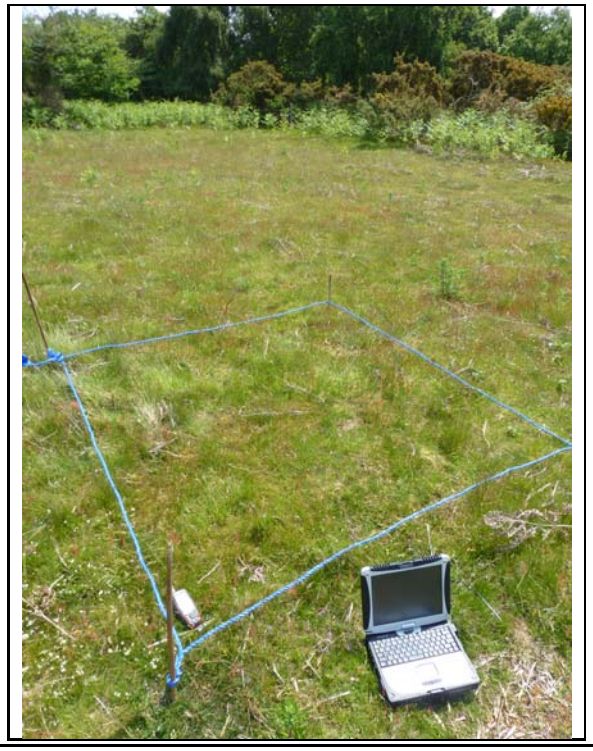
15cm

Layers Cover

100%

Geology:

sandy soils



Species list

Plant Name	Plant Density
Anthoxanthum odorat	60
Campylopus introflex	10
Festuca ovina	5
Polygala vulgaris	2
Pteridium aquilinum	1
Rumex acetosella	20
Rumex obtusifolius	1
Veronica chamaedrys	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4694369026	East Suffolk	Toby Abrehart

Anthoxanthum odoratum grasslands

Date	Quadrat Number
18/06/2013	119
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Anthoxanthum odorat	70
Cerastium fontanum	1
Galium saxatile	15
Holcus lanatus	5
Hypericum humifusu	1
Lonicera periclymenu	1
Luzula multiflora	1
Moenchia erecta	1
Myosotis ramosissima	1
Pteridium aquilinum	1
Rubus sp	1
Senecio jacobaea	1
Stellaria media	1
Veronica arvensis	1
Veronica chamaedrys	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4692969037	East Suffolk	Toby Abrehart

Anthoxanthum odoratum grassland to north of entrance track. Some Calluna vulgaris developing in this area, with occasional Ulex europaeus.

Date	Quadrat Number
15/12/2013	120
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Aira caryophyllea	1
Anthoxanthum odorat	60
Aphanes australis	1
Campylopus introflex	2
Centaurium erythraea	1
Cerastium fontanum	1
Cerastium semidecand	1
Cladonia fimbriata	1
Erica cinerea	1
Hypnum cupressiform	10
Luzula multiflora	2
Potentilla argentea	1
Quercus ilex	1
Rumex acetosella	35
Sagina procumbens	1
Senecio jacobaea	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4689368971	East Suffolk	Toby Abrehart

Within cleared Pteridium aquilinum in centre of site. Agrostis capillaris dominated through this section.

Date	Quadrat Number
18/06/2013	121
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	60
Festuca ovina	10
Galium saxatile	10
Hypnum cupressiform	3
Lonicera periclymenu	1
Pteridium aquilinum	1
Rubus sp	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4689668949	East Suffolk	Toby Abrehart

Area cleared of Pteridium aquilinum

Date	Quadrat Number
18/06/2013	122
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	50
Anthoxanthum odorat	8
Cerastium fontanum	1
Festuca filiformis	1
Festuca ovina	5
Galium saxatile	15
Holcus mollis	15
Lonicera periclymenu	1
Moenchia erecta	1
Pteridium aquilinum	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4686968953	East Suffolk	Toby Abrehart

An odd area of old Calluna vulgaris heath which has been all cut back and in a poor state, though may recover..

Date	Quadrat Number
15/12/2013	123
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Anthoxanthum odorat	15
Campylopus introflex	15
Erica cinerea	30
Galium saxatile	5
Hypnum cupressiform	10
Luzula multiflora	8
Pilosella officinarum	1
Pteridium aquilinum	1
Rumex acetosella	10
Stellaria media	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4687068943	East Suffolk	Toby Abrehart

Old cut back Erica cinerea heath, limited Pteridium aquilinum in this area

Date	Quadrat Number
19/12/2013	124
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis vinealis	5
Anthoxanthum odorat	20
Campylopus introflex	4
Erica cinerea	50
Festuca ovina	3
Galium saxatile	2
Hypnum cupressiform	4
Lotus corniculatus	1
Luzula multiflora	3
Pilosella officinarum	2
Rumex acetosella	5
Teucrium scorodonia	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4686868922	East Suffolk	Toby Abrehart

Old cut back Erica cinerea heath

Date	Quadrat Number
18/06/2013	125
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Anthoxanthum odorat	15
Bare soil	2
Campylopus introflex	1
Carex arenaria	15
Erica cinerea	35
Festuca ovina	10
Galium saxatile	10
Pseudoscleropodium	10
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4683668900	East Suffolk	Toby Abrehart

In south west of site. Large area of mixed grassland with much Carex arenaria throughout. Many ant hills in the area with two stone curlew strips

Date	Quadrat Number
13/12/2013	126
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Anthoxanthum odorat	5
Aphanes australis	1
Carex arenaria	10
Cerastium fontanum	1
Cerastium semidecand	1
Festuca ovina	35
Galium saxatile	5
Holcus lanatus	1
Potentilla erecta	1
Potentilla reptans	5
Pteridium aquilinum	3
Rumex acetosella	10
Veronica officinalis	2

Location - unit number	Grid referance	Region	Author
Unit 107	TM4682968892	East Suffolk	Toby Abrehart

Carex arenaria grasslands to south west of site. Tussocky community towards the footpath in the south

Date	Quadrat Number
19/12/2013	127
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

12cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Anthoxanthum odorat	10
Carex arenaria	20
Carex muricata	2
Festuca filiformis	0
Festuca ovina	55
Galium saxatile	5
Hypnum cupressiform	3
Pteridium aquilinum	1
Rumex acetosella	2

Location - unit number	Grid referance	Region	Author
Unit 107	TM4681368872	East Suffolk	Toby Abrehart

Carex arenaria grasslands at south west of site

Date	Quadrat Number
18/06/2013	128
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

25cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Aira caryophyllea	1
Anthoxanthum odorat	5
Aphanes australis	1
Carex arenaria	35
Cerastium fontanum	1
Cerastium semidecand	1
Festuca ovina	40
Galium saxatile	1
Glechoma hederacea	2
Hypnum cupressiform	5
Lonicera periclymenu	1
Luzula multiflora	5
Potentilla reptans	5
Pteridium aquilinum	1
Rumex acetosella	2
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4689869065	East Suffolk	Toby Abrehart

Prunus cerisifera hedge.

Date	Quadrat Number
19/12/2013	129
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	5x5m

Layers mean height

3.5m, 15cm

Layers Cover

100%, 100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare soil	10
Claytonia perfoliata	65
Glechoma hederacea	3
Prunus cerasifera	100
Rubus sp	1
Urtica dioica	25

Location - unit number	Grid referance	Region	Author
Unit 107	TM4693669056	East Suffolk	Toby Abrehart

Crataegus monogyna scrub

Date	Quadrat Number
18/06/2013	130
Altitude	**Soil Depth**
0	
Stand Area	**Sample Area**
	10x10m

Layers mean height

4.5m, 30cm, 10cm

Layers Cover

95%30%70%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Cerastium fontanum	1
Crataegus monogyna	70
Holcus lanatus	5
Myosotis arvensis	1
Poa annua	1
Pteridium aquilinum	40
Quercus robur	5
Rubus sp	5
Senecio jacobaea	1
Sorbus aucuparia	1
Stellaria media	1
Ulex europaeus	1
Urtica dioica	50
Veronica chamaedrys	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 107	TM4696769010	East Suffolk	Toby Abrehart

Betula wood with abundant Pteridium aquilinum

Date	Quadrat Number
15/12/2013	131
Altitude	**Soil Depth**
Stand Area	**Sample Area** 10x10m

Layers mean height

7.5m, 2m, 70cm,10cm

Layers Cover

70%30%60%40%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	60
Ceratocapnos clavicul	1
Galium aparine	1
Holcus lanatus	1
Pteridium aquilinum	40
Rubus sp	1
Ulex europaeus	5

Location - unit number	Grid referance	Region	Author
Unit 107	TM4698269003	East Suffolk	Toby Abrehart

Hedge line

Date	Quadrat Number
22/06/2013	132
Altitude	**Soil Depth**
Stand Area	**Sample Area**
10x10m	2x2m

Layers mean height

6.5m, 2m, 70cm, 10cm

Layers Cover

50%50%40%60%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Ceratocapnos clavicul	5
Lonicera periclymenu	5
Quercus robur	30
Rosa canina	1
Rubus sp	5
Ulex europaeus	10
Ulmus minor	50

Location - unit number	Grid referance	Region	Author
Unit 108	TM4695968916	East Suffolk	Toby Abrehart

Mosaic heathland with frequent Erica cinerea and abundant Calluna vulgaris at a 49% correlation

Date	Quadrat Number
19/12/2013	133
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

30cm

Layers Cover

100%

Geology:

sandy heath

Species list

Plant Name	Plant Density
Calluna vulgaris	45
Carex arenaria	1
Ceratocapnos clavicul	1
Erica cinerea	45
Festuca filiformis	2
Festuca ovina	1
Holcus lanatus	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4692768911	East Suffolk	Toby Abrehart

Mosaic transitional heath to grassland species poor Pteridium aquilinum community Quercus robor seedling

Date	Quadrat Number
20/06/2013	135
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

20cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	10
Carex arenaria	8
Cerastium fontanum	1
Erica cinerea	35
Festuca ovina	45
Quercus robur	1
Rumex acetosella	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4694368927	East Suffolk	Toby Abrehart

Calluna vulgaris dominated heath, in fingers of habitat extending west along slope

1 quercus robor seedling.

Scattered moss species 2 in areas around the main heather heath

Date	Quadrat Number
20/06/2013	136
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

45cm, 5cm

Layers Cover

80%20%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	80
Erica cinerea	10
Hypnum cupressiform	10
Quercus robur	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4697268926	East Suffolk	Toby Abrehart

Calluna vulgaris dominated heath near to gorse community.

Galium saxatile and grasses in the troughs between the heather communities

Date	Quadrat Number
20/06/2013	137
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

35cm, 10cm

Layers Cover

60%40%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	45
Erica cinerea	45
Festuca ovina	2
Lonicera periclymenu	2
Pteridium aquilinum	3

Location - unit number	Grid referance	Region	Author
Unit 108	TM4698368902	East Suffolk	Toby Abrehart

Area of short calluna heath, looks like there has been bracken clearance through this section.

Date	Quadrat Number
20/06/2013	138
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10cm	
Layers Cover	
100%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	50
Campylopus introflex	20
Carex pilulifera	2
Erica cinerea	20
Galium saxatile	3
Lonicera periclymenu	1
Pteridium aquilinum	4

Location - unit number	Grid referance	Region	Author
Unit 108	TM4697268889	East Suffolk	Toby Abrehart

Area of low heath - cleared bracken near to oak 20yrs old. Carex arenaria - Calluna vulgaris matrix

Date	Quadrat Number
20/06/2013	139
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	40
Campylopus introflex	15
Carex arenaria	15
Carex pilulifera	10
Erica cinerea	20

Location - unit number	Grid referance	Region	Author
Unit 108	TM4700568910	East Suffolk	Toby Abrehart

Moss dominated heath, at the edge of the Pteridium aquilinum margin.

Date	Quadrat Number
20/06/2013	140
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 10cm	
Layers Cover 100%	
Geology: sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	5
Campylopus introflex	70
Erica cinerea	10
Pteridium aquilinum	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4700968921	East Suffolk	Toby Abrehart

Pteridium aquilinum only area

Date	Quadrat Number
20/06/2013	141
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 70cm	
Layers Cover 100%	
Geology: sandy soils	

Species list

Plant Name	Plant Density
Hypnum cupressiform	30
Lonicera periclymenu	1
Pteridium aquilinum	99

Location - unit number	Grid referance	Region	Author
Unit 108	TM4694068859	East Suffolk	Toby Abrehart

Mosaic heath with abundant tree stumps, soil compacted across this middle section.

Date	Quadrat Number
15/12/2013	142
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

25cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	65
Carex arenaria	15
Erica cinerea	20
Pteridium aquilinum	1
Rubus sp	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4691968842	East Suffolk	Toby Abrehart

Mosaic transition heath near scots pine. Calluna vulgaris dominated with considerable bare soil. Ground compacted again

Date	Quadrat Number
20/06/2013	143
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare ground	30
Calluna vulgaris	60
Carex arenaria	7
Pteridium aquilinum	2
Rubus sp	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4689768812	East Suffolk	Toby Abrehart

Transitional heath to Carex arenaria grasslands. Compact soils and dying bracken. Must have been weed wiped or sprayed at some oint recently. Heather is low

Date	Quadrat Number
15/12/2013	144
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

20cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	55
Carex arenaria	35
Dicranum scoparium	14

Location - unit number	Grid referance	Region	Author
Unit 108	TM4685168799	East Suffolk	Toby Abrehart

Vegetation within a small trough in the heath. Low mixed community leading through the heathers. Carex arenaria and Calluna vulgaris dominated.

Betula seedlings

Date	Quadrat Number
20/06/2013	145
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy compacted soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	40
Campylopus introflex	8
Carex arenaria	25
Carex pilulifera	30
Festuca filiformis	3
Rumex acetosella	3

Location - unit number	Grid referance	Region	Author
Unit 108	TM4684868754	East Suffolk	Toby Abrehart

Transitional Carex to heath communities.
Western side of unit

Date	Quadrat Number
09/01/2014	146
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils compacted

Species list

Plant Name	Plant Density
Bare soil	8
Betula pendula	1
Calluna vulgaris	35
Campylopus introflex	15
Carex arenaria	35
Carex pilulifera	1
Erica cinerea	3
Rumex acetosella	2

Location - unit number	Grid referance	Region	Author
Unit 108	TM4682668803	East Suffolk	Toby Abrehart

Western end of unit 108. At bottom of slope. Transitional grassland heath dominated with Carex arenaria and Calluna vulgaris. The western boundary is dominated with Dense Pteridium and Crataegus monogyna along the hedges. 38%

Date	Quadrat Number
15/12/2013	147
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	35
Carex arenaria	35
Carex pilulifera	3
Pteridium aquilinum	1
Rumex acetosella	15

Location - unit number	Grid referance	Region	Author
Unit 108	TM4682568818	East Suffolk	Toby Abrehart

Small area of grassland with Teucrium scordonia and Agrostis capillaris

Date	Quadrat Number
15/12/2013	148
Altitude	**Soil Depth**
Stand Area	**Sample Area**
3x6m	2x2m

Layers mean height

25

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis vinealis	30
Carex arenaria	10
Carex pilulifera	5
Festuca ovina	25
Galium saxatile	10
Holcus lanatus	3
Lonicera periclymenu	1
Rumex acetosella	2
Teucrium scorodonia	35

Location - unit number	Grid referance	Region	Author
Unit 108	TM4688068853	East Suffolk	Toby Abrehart

Carex arenaria dominated grassland, dense vegetation across a large portion of the south western end of the unit

Date	Quadrat Number
19/12/2013	149
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

25cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Carex arenaria	85
Ceratocapnos clavicul	11
Lonicera periclymenu	2
Rubus sp	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4690268877	East Suffolk	Toby Abrehart

Carex arenaria dominated grasslands on the western slope. Here there is more of an are with Festuca ovina and some Agrostis capillaris

Date	Quadrat Number
20/06/2013	150
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

35cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis vinealis	7
Carex arenaria	72
Cerastium fontanum	1
Ceratocapnos clavicul	1
Festuca ovina	15
Galium saxatile	1
Luzula multiflora	2
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4693868895	East Suffolk	Toby Abrehart

Carex arenaria dominated grassland at top of slope

Date	Quadrat Number
20/06/2013	151
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

25

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	1
Carex arenaria	94
Ceratocapnos clavicul	2
Erica cinerea	1
Lonicera periclymenu	2

Location - unit number	Grid referance	Region	Author
Unit 108	TM4696868942	East Suffolk	Toby Abrehart

Gorse dominated area of heath, scattered Betula within the main body of this habitat. Occasional dead Betula pendula. 45%

Date	Quadrat Number
15/12/2013	152
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	5x5m

Layers mean height

2m

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	1
Erica cinerea	1
Festuca filiformis	1
Festuca ovina	1
Pteridium aquilinum	5
Rumex acetosella	1
Ulex europaeus	90

Location - unit number	Grid referance	Region	Author
Unit 108	TM4698568933	East Suffolk	Toby Abrehart

Gorse dominated heath with abundant Pteridium aquilinum

Date	Quadrat Number
20/06/2013	153
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	5x5m

Layers mean height

2.2m

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Ceratocapnos clavicul	1
Lonicera periclymenu	2
Pteridium aquilinum	35
Ulex europaeus	60

Location - unit number	Grid referance	Region	Author
Unit 108	TM4698668946	East Suffolk	Toby Abrehart

Gorse dominated habitat, northern edge

Date	Quadrat Number
20/06/2013	154
Altitude	**Soil Depth**
Stand Area	**Sample Area** 5x5m

Layers mean height

1.8m

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Carex pilulifera	1
Ceratocapnos clavicul	5
Holcus lanatus	1
Lonicera periclymenu	2
Pteridium aquilinum	10
Rubus sp	1
Ulex europaeus	82

Location - unit number	Grid referance	Region	Author
Unit 108	TM4699168945	East Suffolk	Toby Abrehart

Pteridium aquilinum dominated heath, very little else seen in this area

Date	Quadrat Number
20/06/2013	155
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

90cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Ceratocapnos clavicul	1
Holcus lanatus	1
Lonicera periclymenu	2
Pteridium aquilinum	95

Location - unit number	Grid referance	Region	Author
Unit 108	TM4702668914	East Suffolk	Toby Abrehart

Pteridium aquilinum dominated heathland, near to footpath

Date	Quadrat Number
20/06/2013	156
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

50cm, 20cm

Layers Cover

45%55%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	3
Erica cinerea	2
Lonicera periclymenu	1
Pteridium aquilinum	90
Rubus sp	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4704168832	East Suffolk	Toby Abrehart

Mature heathland surrounds this quadrat, the main area of this quadrat was within an area of land that was restored in the last few years and waas vegetating well and achieving an H8a community

Date	Quadrat Number
19/12/2013	157
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 35cm	
Layers Cover 100%	
Geology: sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	60
Campylopus introflex	5
Erica cinerea	30
Ulex gallii	5

Location - unit number	Grid referance	Region	Author
Unit 108	TM4703868792	East Suffolk	Toby Abrehart

Area of land recently cleared of scrub.
Developing heathland

Date	Quadrat Number
20/06/2013	158
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare soil	15
Calluna vulgaris	65
Campylopus introflex	5
Campylopus introflex	1
Cerastium fontanum	1
Cerastium semidecand	1
Erica cinerea	5
Filago vulgaris	1

Pinus sylvestris	1
Poa annua	1
Senecio viscosus	1
Ulex gallii	3
Vulpia bromoides	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4702768763	East Suffolk	Toby Abrehart

This area is recovering from a bit scrub clearance, resulting in an several areas of low developing heathland.

In these areas that are being restored, there are several areas about 2m2 that are mostly bare soils and mosses. In particular these surround sites that held the larger trees.

Date	Quadrat Number
19/12/2013	159
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils compacted

Species list

Plant Name	Plant Density
Bare soil	9
Calluna vulgaris	85
Campylopus introflex	5
Erica cinerea	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4702968755	East Suffolk	Toby Abrehart

Older heather communities, Calluna vulgaris dominated, frequent Ulex gallii. Nearby there are obvoius stumps of trees that have been removed.

Date	Quadrat Number
19/12/2013	160
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

55cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	75
Campylopus introflex	50
Erica cinerea	35

Location - unit number	Grid referance	Region	Author
Unit 108	TM4697768758	East Suffolk	Toby Abrehart

Older heath communities, halfway down slope. Still scattered areas of cleared land where the dominant vegetation around the tree stumps is Rumex acetosella..

Ulex gallii is widely distributed through this area of the site, though thin on the ground.

Abundant Red Deer dropping

63%

Date	Quadrat Number
15/12/2013	161
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

40cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	55
Campylopus introflex	10
Erica cinerea	15
Ulex gallii	25
Vulpia bromoides	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4698168752	East Suffolk	Toby Abrehart

Area of more open ground, part of the cleared sections of the unit. Bare ground with some Erica tetralix forming a large stand within the area. There were several other stands in the area.

Must be damper than surrounding areas

Date	Quadrat Number
19/12/2013	162
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

20cm

Layers Cover

100%

Geology:

sandy soils compacted

Species list

Plant Name	Plant Density
Bare soil	2
Calluna vulgaris	50
Campylopus introflex	15
Campylopus introflex	10
Erica cinerea	2
Erica tetralix	10
Juncus effusus	1
Rumex acetosella	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4692668742	East Suffolk	Toby Abrehart

Mature heath

Date	Quadrat Number
20/06/2013	163
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 50cm	
Layers Cover 100%	
Geology: sandy soils	

Species list

Plant Name	Plant Density
Agrostis vinealis	1
Betula pendula	1
Calluna vulgaris	50
Campylopus introflex	1
Campylopus introflex	6
Cirsium vulgare	1
Erica cinerea	40

Location - unit number	Grid referance	Region	Author
Unit 108	TM4711968709	East Suffolk	Toby Abrehart

Gorse scrub at southern side of site, fragmented and with poor structure.

Date	Quadrat Number
19/12/2013	164
Altitude	**Soil Depth**
Stand Area	**Sample Area** 5x5m

Layers mean height

2.0m, 50cm, 0mm

Layers Cover

45%55%100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Campylopus introflex	20
Lonicera periclymenu	1
Pteridium aquilinum	2
Rubus sp	1
Ulex europaeus	90

Location - unit number	Grid referance	Region	Author
Unit 108	TM4711468719	East Suffolk	Toby Abrehart

Mature heath

Date	Quadrat Number
20/06/2013	165
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

35cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	60
Campylopus introflex	20
Erica cinerea	20
Pinus sylvestris	1
Pteridium aquilinum	5

Location - unit number	Grid referance	Region	Author
Unit 108	TM4713068763	East Suffolk	Toby Abrehart

Area of tree removal, reverting into heathland again.

Betula seedlings in surrounding land not in this sample, the areas around the old tree stumps have considerable bare soils with limited amounts of mosses.

In general the cleared areas are dominated with low Calluna vulgaris and Ulex galllii

Date	Quadrat Number
19/12/2013	166
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm

Layers Cover

100%

Geology:

sandy soils compacted

Species list

Plant Name	Plant Density
Calluna vulgaris	75
Campylopus introflex	5
Dicranum scoparium	5
Erica cinerea	15
Ulex gallii	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4714368803	East Suffolk	Toby Abrehart

Area of old established heath on the top of the rise. Uniform habitat through this section with the exception of more mosses as part of the communities.

Ulex gallii is less abundant through the top of the site though still present every 10 meters or so.

Much of the Calluna through here is tall old and a bit scraggly.

Date	Quadrat Number
15/12/2013	167
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m
Layers mean height	
35cm	
Layers Cover	
100%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	65
Erica cinerea	30
Pseudoscleropodium	65
Ulex europaeus	2
Ulex gallii	3

Location - unit number	Grid referance	Region	Author
Unit 108	TM4716768876	East Suffolk	Toby Abrehart

There are several slight hollow in the top section of the site. It is in these that there is a much greater abundance of Ulex gallii.

Date	Quadrat Number
21/06/2013	168
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 40cm	
Layers Cover 100%	
Geology: sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	70
Erica cinerea	15
Hypnum cupressiform	35
Ulex gallii	25

Location - unit number	Grid referance	Region	Author
Unit 108	TM4721268882	East Suffolk	Toby Abrehart

Top of site, Ulex gallii a major contributor to the habitat.

Churing Nightjar nearby.

Scattered Scots Pine and occassional bushes of Ulex europea

Date	Quadrat Number
21/06/2013	169
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

40cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	60
Erica cinerea	10
Hypnum cupressiform	40
Teucrium scorodonia	5
Ulex gallii	20

Location - unit number	Grid referance	Region	Author
Unit 108	TM4726268862	East Suffolk	Toby Abrehart

Area at east of site before the main work track. Still Ulex gallii dominated heath. 10 metres from the cleared runways.

Plants nearby include Molinia, Galium saxatile, Holcus lantana, Poa trivialis, and Festuca ovina, though all at very low densitties

Area of rabbit burrow to the east of this quadrat

Date	Quadrat Number
19/12/2013	170
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

30cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	65
Campylopus introflex	10
Cerastium fontanum	1
Erica cinerea	10
Holcus lanatus	1
Hypnum cupressiform	40
Rubus sp	1
Stellaria pallida	1
Ulex gallii	5
Urtica dioica	1
Veronica officinalis	1
Vulpia bromoides	2

Location - unit number	Grid referance	Region	Author
Unit 108	TM4727568845	East Suffolk	Toby Abrehart

Nightjar runways, areas of cleared heath. Species poor mostly bare soils

Date	Quadrat Number
19/12/2013	171
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2X2m

Layers mean height

2cm

Layers Cover

100%

Geology:

Compacted sandy soils

Species list

Plant Name	Plant Density
Bare soil	90
Calluna vulgaris	5
Ulex gallii	3

Location - unit number	Grid referance	Region	Author
Unit 108	TM4728468806	East Suffolk	Toby Abrehart

Nightjar runway, mostly bare soils with old heathland either side.

Date	Quadrat Number
21/06/2013	172
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

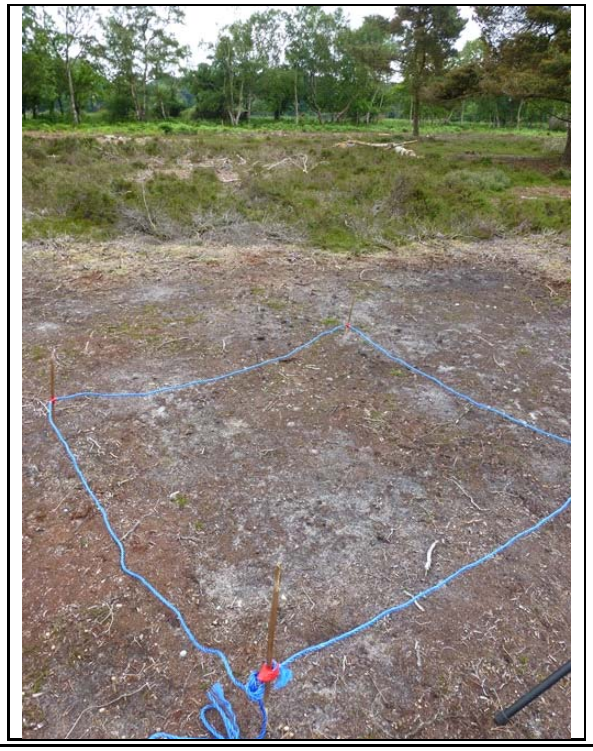
1cm

Layers Cover

100%

Geology:

Compacted sandy soils



Species list

Plant Name	Plant Density
Bare soil	97
Calluna vulgaris	2
Pinus sylvestris	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4729068800	East Suffolk	Toby Abrehart

Area to south of forth runway. Area has been cleared of some conifers and must be slightly damp. Patches of Erica tetralix across this area of the site.

Date	Quadrat Number
19/12/2013	173
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

30cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare soil	2
Calluna vulgaris	70
Erica tetralix	25
Hypnum cupressiform	30
Small starry moss	15

Location - unit number	Grid referance	Region	Author
Unit 108	TM4722168799	East Suffolk	Toby Abrehart

Nightjar runway, bare soils limited vegetation.

Norfolk Hawker patrolling

Date	Quadrat Number
21/06/2013	174
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

3cm

Layers Cover

100%

Geology:

compacted sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	12
Ulex gallii	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4720568780	East Suffolk	Toby Abrehart

Betula woodland, mixed with young Quercus robur trees. Very limited understorey. Pteridium aquilinum only. 42%

Date	Quadrat Number
15/12/2013	175
Altitude	**Soil Depth**
Stand Area	**Sample Area** 10x10m

Layers mean height

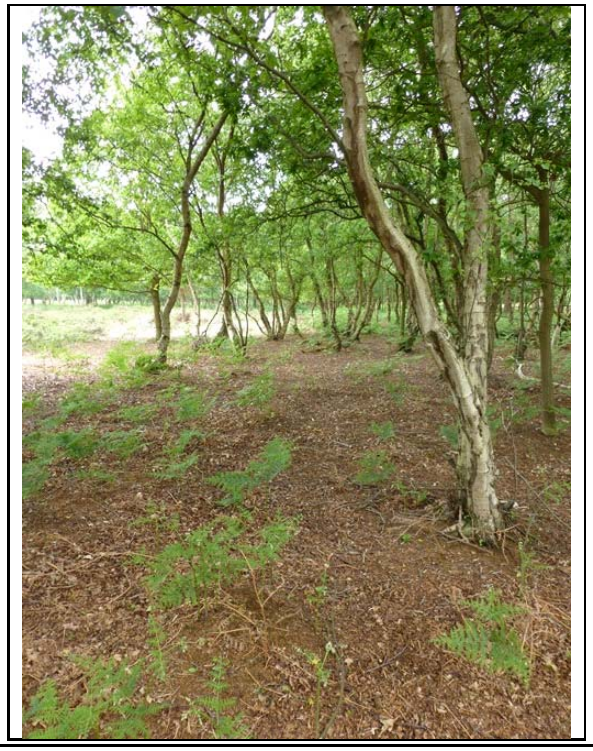
6.5m, 30cm, 0mm

Layers Cover

100%10%90%

Geology:

peaty sandy soils



Species list

Plant Name	Plant Density
Betula pendula	60
Pteridium aquilinum	30
Quercus robur	40

Location - unit number	Grid referance	Region	Author
Unit 108	TM4724568714	East Suffolk	Toby Abrehart

Betula woodland. One sweet chestnust standard at southern edge of site.

Date	Quadrat Number
21/06/2013	176
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	10x10m

Layers mean height

8m, 30cm, 0mm

Layers Cover

100%10%90%

Geology:

peaty sandy soils

Species list

Plant Name	Plant Density
Betula pendula	100
Deschampsia cespitos	1
Lonicera periclymenu	4
Pteridium aquilinum	95

Location - unit number	Grid referance	Region	Author
Unit 108	TM4729868705	East Suffolk	Toby Abrehart

Cleared woodland site, Pteridium aquilinum dominated habitat with occasional Oak and Betula

Digitalis nearby

Date	Quadrat Number
21/06/2013	177
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

35cm, 10cm

Layers Cover

20%80%

Geology:

peaty sandy soils

Species list

Plant Name	Plant Density
Bare soil	5
Campylopus introflex	10
Carex arenaria	5
Holcus lanatus	10
Large tree stump	0
Lonicera periclymenu	20
Pteridium aquilinum	50

Location - unit number	Grid referance	Region	Author
Unit 108	TM4730968771	East Suffolk	Toby Abrehart

Damp eastern side of site, Deschampsia caespitosa sites with Erica tetralix

Date	Quadrat Number
19/12/2013	178
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m

Layers mean height

30cm, 10cm

Layers Cover

50%50%

Geology:

peaty sandy damp soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	35
Deschampsia cespitos	50
Erica cinerea	1
Erica tetralix	15
Hypnum cupressiform	30
Pinus sylvestris	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4728468769	East Suffolk	Toby Abrehart

Damp heath with frequent Erica tetralix.

Scattered Betula trees around, obvious clearing and compaction of soils here

Date	Quadrat Number
21/06/2013	179
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

35cm

Layers Cover

100%

Geology:

peaty damp sandy soils

Species list

Plant Name	Plant Density
Betula pendula	5
Calluna vulgaris	60
Deschampsia cespitos	25
Erica tetralix	10
Holcus lanatus	1
Hypnum cupressiform	15

Location - unit number	Grid referance	Region	Author
Unit 108	TM4725968761	East Suffolk	Toby Abrehart

Western end of damp heath, occasional Scots pine 8m from woodland edge.

Small area of Deschampsia caespitosa and some Rumex acetosella.

Date	Quadrat Number
19/12/2013	180
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

55cm, 25cm, 5cm

Layers Cover

35%55%30%

Geology:

damp compacted sandy soils

Species list

Plant Name	Plant Density
Bare soil	10
Calluna vulgaris	40
Deschampsia cespitos	1
Erica tetralix	5
Hypnum cupressiform	10
Juncus effusus	35
Rubus sp	1
Salix cinerea subsp. Ci	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4731068858	East Suffolk	Toby Abrehart

Edge of cleared woodland, this is the belt of woodland left. Betula dominated with occasional Crataegus monogyna, Understorey of Pteridium aquilinum and Teucrium scordonia

34%

Date	Quadrat Number
19/12/2013	181
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	10x10m

Layers mean height

6m, 50cm, 20cm

Layers Cover

100%30%60%

Geology:

Peaty

Species list

Plant Name	Plant Density
Betula pendula	30
Calluna vulgaris	1
Crataegus monogyna	10
Glechoma hederacea	1
Holcus lanatus	2
Poa annua	1
Poa trivialis	20
Prunus cerasifera	1

Pteridium aquilinum	50
Rubus sp	5
Teucrium scorodonia	20
Ulmus minor subsp. m	30
Urtica dioica	4
Veronica chamaedrys	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4728668887	East Suffolk	Toby Abrehart

Area of cleared woodland to the east of the track. Very little vegetation in this whole section, recently cleard. In last three months.

Mostly bare peaty substrate

Date	Quadrat Number
21/06/2013	182
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

5cm

Layers Cover

100%

Geology:

peaty loose soil

Species list

Plant Name	Plant Density
Holcus lanatus	10
Luzula multiflora	5
Pteridium aquilinum	8
Rubus spectabilis	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4728168928	East Suffolk	Toby Abrehart

Area of cleared Betula woodland, recently cleared. Scattered Calluna spreading back into the cleared area.

Date	Quadrat Number
21/06/2013	183
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare sand	20
Carex arenaria	35
Ceratocapnos clavicul	2
Lonicera periclymenu	2
Pteridium aquilinum	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4724768939	East Suffolk	Toby Abrehart

Ulex gallii heath, with abundant Calluna vulgaris. Low growing sward with developing Carex arenaria nearby.

Some small bare areas with patches of Aira praecox and Rumex acetosella

Date	Quadrat Number
21/06/2013	184
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

15cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	1
Calluna vulgaris	50
Carex pilulifera	1
Erica cinerea	40
Hypnum cupressiform	30
Luzula multiflora	1
Rumex acetosella	1
Ulex gallii	10

Location - unit number	Grid referance	Region	Author
Unit 108	TM4724668953	East Suffolk	Toby Abrehart

Area of mixed Calluna vulgaris heath with abundant Carex arenaria. Very similar to the areas to the west of this unit.

Some tree clearance to the east with brash still on the ground

Some of the calluna in this area has been crushed by machinery but shows signs of regeneration.

Date	Quadrat Number
15/12/2013	185
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10cm	
Layers Cover	
100%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	55
Carex arenaria	40
Hypnum cupressiform	30

Location - unit number	Grid referance	Region	Author
Unit 108	TM4725268961	East Suffolk	Toby Abrehart

Carex arenaria sand dune communnity. Dominated with C. arenaria, though this particular patch is mor diverse than the pure Carex arenaria quadrats nearby.

Date	Quadrat Number
21/06/2013	186
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	1
Betula pendula	3
Calluna vulgaris	2
Carex arenaria	70
Carex pulicaris	5
Cerastium fontanum	1
Deschampsia flexuosa	1
Erica cinerea	1
Galium saxatile	4
Holcus lanatus	3
Hypnum cupressiform	10
Luzula multiflora	1
Rumex acetosella	1
Sorbus aucuparia	1
Veronica chamaedrys	11
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4719968937	East Suffolk	Toby Abrehart

Carex arenaria dominated community. Near cleared gulley.

Track to the south recovering with carex arenaria and holcus lantatnana..

At western end of pit tree brash had been burnt. The gulley itself is dominated with Pteridium and Cerato clav>.

Date	Quadrat Number
21/06/2013	187
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

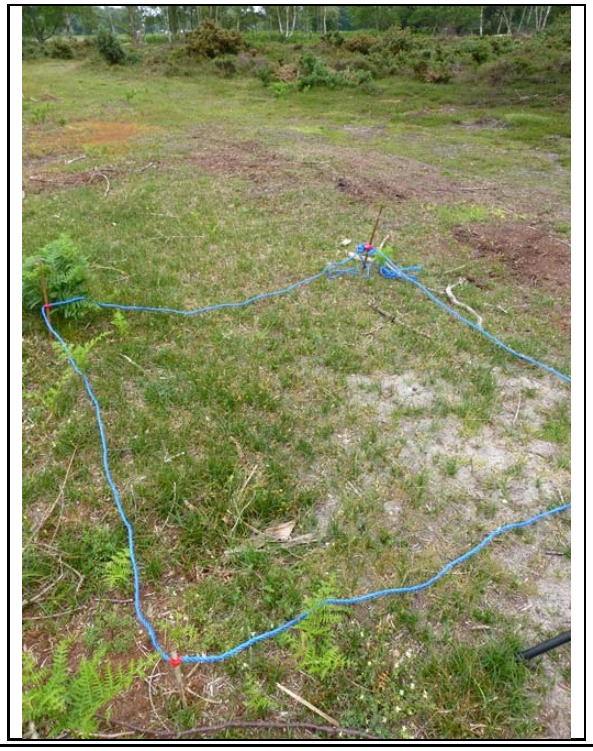
10cm

Layers Cover

100%

Geology:

sandy soils



Species list

Plant Name	Plant Density
Aira praecox	1
Bare sand	20
Betula pendula	2
Carex arenaria	70
Ceratocapnos clavicul	1
Holcus lanatus	1
Lonicera periclymenu	1
Poa annua	1
Pteridium aquilinum	1
Vulpia bromoides	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4713168957	East Suffolk	Toby Abrehart

Cleared Birch and Larch woodland.

Dominated with Pteridium and Cerat clav

Not much brash through this area but numerous tree trucks.

Date	Quadrat Number
21/06/2013	188
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

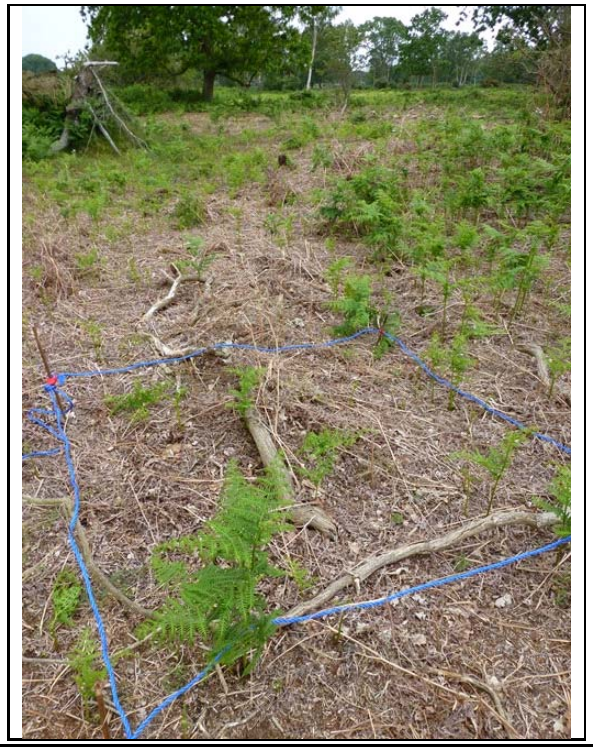
15cm

Layers Cover

100%

Geology:

peaty sandy soils



Species list

Plant Name	Plant Density
Bare peaty soil	90
Calluna vulgaris	1
Ceratocapnos clavicul	4
Pteridium aquilinum	5

Location - unit number	Grid referance	Region	Author
Unit 108	TM4712568911	East Suffolk	Toby Abrehart

Ulex gallii heath at northern edge of heathland.

Ulex gallii more dominant in the trough running through the site as to the tops of the ridges.

Date	Quadrat Number
21/06/2013	189
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 30cm	
Layers Cover 100%	
Geology: sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	60
Hypnum cupressiform	45
Quercus robur	1
Ulex gallii	35

Location - unit number	Grid referance	Region	Author
Unit 108	TM4709768945	East Suffolk	Toby Abrehart

Within cleared woodlland, mostly cleared soils, very little vegetation as yet.

Date	Quadrat Number
15/12/2013	190
Altitude	**Soil Depth**
Stand Area	**Sample Area** 2x2m
Layers mean height 5cm	
Layers Cover 100%	
Geology: peaty soils	

Species list

Plant Name	Plant Density
Galium aparine	1
Lonicera periclymenu	1
Pteridium aquilinum	5
Silene dioica	1
Ulex europaeus	1
Veronica officinalis	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4705768977	East Suffolk	Toby Abrehart

Cleared woodland, cleared of mostly Larch. Abundant large brash on the ground.

Very little vegetation, thick dry friable thatch throughout this section of the old woodland

There is abundant germination of Oak seedling throughout.>

Date	Quadrat Number
21/06/2013	191
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm

Layers Cover

100%

Geology:

peaty soils

Species list

Plant Name	Plant Density
Ceratocapnos clavicul	60
Galeopsis tetrahit	1
Pteridium aquilinum	5

Location - unit number	Grid referance	Region	Author
Unit 108	TM4706568923	East Suffolk	Toby Abrehart

Area of Ulex europea east of footpath. Very limited vegetation other than Ulex europeaus and Pteridium aquilinum

Date	Quadrat Number
19/12/2013	192
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	5x5m

Layers mean height

1.6m, 50cm, 0mm

Layers Cover

50%10%30%

Geology:

Peaty soils

Species list

Plant Name	Plant Density
Bare soil	15
Betula pendula	5
Carex arenaria	1
Lonicera periclymenu	1
Pteridium aquilinum	10
Ulex europaeus	65

Location - unit number	Grid referance	Region	Author
Unit 108	TM4706168903	East Suffolk	Toby Abrehart

Area of distuirbed soils,

Species to add to list, dactylis and narrdus strictus on path edge

Date	Quadrat Number
15/12/2013	193
Altitude	**Soil Depth**
Stand Area	**Sample Area**
	2x2m

Layers mean height

5cm

Layers Cover

100%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Aira praecox	1
Arenaria serpyllifolia s	1
Bare soil	35
Betula pendula	1
Calluna vulgaris	50
Carex arenaria	3
Carex pulicaris	1
Cerastium fontanum	1
Chamerion angustifoli	1
Epilobium ciliatum	1
Juncus bufonius	1
Poa annua	5
Rubus sp	1
Rumex acetosella	1
Senecio jacobaea	1
Senecio viscosus	1

Location - unit number	Grid referance	Region	Author
Unit 108	TM4689768908	East Suffolk	Toby Abrehart

Oak woodland either side of the footpath running west between the units.

Dominated with small oaks with a light understorey of Poa sp and Bracken

Date	Quadrat Number
21/06/2013	194
Altitude	**Soil Depth**
Stand Area	**Sample Area** 10x10m

Layers mean height

7m, 50cm, 10cm

Layers Cover

100%35%65%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare ground	50
Carex arenaria	0
Crataegus monogyna	30
Lonicera periclymenu	5
Poa trivialis	20
Pteridium aquilinum	30
Quercus robur	50
Rubus sp	0
Ulmus minor subsp.	15

Location - unit number	Grid referance	Region	Author
Unit 35	TM4593669627	East Suffolk	Toby Abrehart

Westleton heath NNR. West of the car park is a large are that has been treated to reduce the Pteridium aquilinum. This has been effective with very little regrowth across this habitat.

Regeneration through here is happening with a scattering of Calluna and Erica plants, At the eastern end of the site is an area of Deschampsia..

It is a very moss dominated structure throughout with Carex arenaria being a

Date	Quadrat Number
28/06/2013	195
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
5cm	
Layers Cover	
100%	
Geology:	
sandy bsoils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	1
Campylopus introflex	50
Carex arenaria	2
Carex pilulifera	1
Cladonia fimbriata	0
Erica cinerea	1
Festuca ovina	2
Molinia caerulea	5
Polytrichum juniperin	1
Pteridium aquilinum	1
Rumex acetosella	40

Location - unit number	Grid referance	Region	Author
Unit 35	TM4592469620	East Suffolk	Toby Abrehart

Small area of older establishe heath grassland, dominated with Festuca ovina and low level Calluna vulgaris. Mosses here are Pseudoscleropodium purum

This habitat borders the path running west from the car park, with smaller areas of older taller(30cm) pathes of heather..

This grassland forms a mosaic through the centre of the main Bracken treated area.

Date	Quadrat Number
25/06/2013	196
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10cm,10mm	
Layers Cover	
60%60%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	2
Carex arenaria	3
Deschampsia flexuosa	5
Erica cinerea	20
Festuca ovina	50
Holcus lanatus	1
Luzula multiflora	2
Pseudoscleropodium	50
Rumex acetosella	3

Location - unit number	Grid referance	Region	Author
Unit 35	TM4586369609	East Suffolk	Toby Abrehart

Area of Pteridium aquilinum treated heath.

Good edeveloping grassland dominated with Deschampsia flexuosa and Festuca ovina. Occasional Carex arenaria, very little Bracken re-growth.

Under adjacent Birch is scattered Cerato clav, Rubus, Lonicera and Holcus lantana.

Turtle Dove calling from nearby trees.

Date	Quadrat Number
25/06/2013	197
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
8cm	
Layers Cover	
60%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Carex arenaria	10
Carex pilulifera	1
Deschampsia flexuosa	10
Festuca ovina	40
Luzula multiflora	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4582869592	East Suffolk	Toby Abrehart

Area dominated with Pteridium aquilinum thatch and little else. The gropund flora is developing with occasional heathland species scattered throughout these three sections of reduced vegetation.

Within this barren section ther were also occassional Holcu lantana, Deschampsia flexuosa, Festuca ovina and Rumex acetosella.

Towards the path/track the vegetation

Date	Quadrat Number
25/06/2013	198
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
2cm	
Layers Cover	
15%	
Geology:	
sandy soils under dense Bracken thatch	

Species list

Plant Name	Plant Density
Carex arenaria	1
Galium saxatile	1
Luzula multiflora	10
Pteridium thatch	87
Stellaria media	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4580869639	East Suffolk	Toby Abrehart

Part of the large area of cleared Pteridium aquilinum with limited re-growth of the heathland communities.

There is a similar mixed commity through this area of the site. The community develops into a more Calluna rich habitat to the north adjacent to the mature Calluna heathlands.

Date	Quadrat Number
25/06/2013	199
Altitude	**Soil Depth**
13m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

5cm

Layers Cover

35%

Geology:

sandy soils with much Bracken thatch

Species list

Plant Name	Plant Density
Campylopus introflex	10
Deschampsia flexuosa	10
Festuca ovina	2
Luzula multiflora	8
Polytrichum juniperin	20
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4580969654	East Suffolk	Toby Abrehart

An area being cleared of Pteridium aquilinum, where there is still some showing this summer. The dominant flora is low level Calluna vulgaris heath.

Three Betula pendula trees in the centre of this patch of habitat with the tall mature heathlands to the north.

Date	Quadrat Number
25/06/2013	200
Altitude	**Soil Depth**
13m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm,10mm

Layers Cover

80%50%

Geology:

Sandy soils, compacted

Species list

Plant Name	Plant Density
Calluna vulgaris	65
Campylopus introflex	10
Cladonia squamosa	5
Deschampsia flexuosa	5
Erica cinerea	1
Festuca ovina	1
Luzula multiflora	1
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4578269626	East Suffolk	Toby Abrehart

Agrostis capillaris and Festuca ovina dominated grasslands with occasional Calluna vulgaris and Erica cinerea plants foring a mosaic through much of this area.

These heaters then become the dominat structures towards the centre and north of the site.

Site is Rabbit grazed

Species poor grassland on acid soils

Date	Quadrat Number
25/06/2013	201
Altitude	**Soil Depth**
12m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10cm,10mm	
Layers Cover	
75%40%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Agrostis capillaris	40
Aira praecox	1
Calluna vulgaris	2
Campylopus introflex	10
Erica cinerea	20
Festuca ovina	20
Hypnum cupressiform	15
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4573569613	East Suffolk	Toby Abrehart

Area of mosaic heath

There are numerous mounds through this section which are often rabbit grazed creating a disturbed community, the most frequent species here is Aira praecox.

To the wset of this habitat is another area of establishing grasslands being restored from Bracken dominated heath.

Date	Quadrat Number
25/06/2013	202
Altitude	**Soil Depth**
12m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
5cm, 10mm	
Layers Cover	
65%60%	
Geology:	
sandy soils compacted	

Species list

Plant Name	Plant Density
Calluna vulgaris	1
Campylopus introflex	10
Deschampsia flexuosa	1
Erica cinerea	10
Festuca filiformis	1
Festuca ovina	50
Hypnum cupressiform	25
Polytrichum juniperin	10
Rumex acetosella	4

Location - unit number	Grid referance	Region	Author
Unit 35	TM4565469628	East Suffolk	Toby Abrehart

Area of developing heath after Pteridium aquilinum clearance. A strong community mosaic of Festuca ovina grasslands and Calluna heathland.

A more dominant community of Deschampsia flexuosa through this southern section nearer the track.

Date	Quadrat Number
25/06/2013	203
Altitude	**Soil Depth**
10m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm,10mm

Layers Cover

70%45%

Geology:

sandy soils with overlying bracken thatch

Species list

Plant Name	Plant Density
Calluna vulgaris	10
Carex arenaria	2
Carex pilulifera	1
Deschampsia flexuosa	25
Erica cinerea	1
Festuca ovina	30
Polytrichum juniperin	2
Pseudoscleropodium	30

Pteridium aquilinum	1
Pteridium thatch	35
Rumex acetosella	3

Location - unit number	Grid referance	Region	Author
Unit 35	TM4561769649	East Suffolk	Toby Abrehart

To the north west of the track
Same habitat as that to the west., a developing heath and grassland after Bracken clearance.

Dominated with Deschampsia flexuosa and short Calluna vulgaris. Occassional Deschampsia caespitosa scattered on this side of the track.

Bracken plants rare through here escept under the trees where it is still frequent.

Date	Quadrat Number
19/12/2013	204
Altitude	**Soil Depth**
10m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
5cm,10mm	
Layers Cover	
50%70%	
Geology:	
compacted sandy soils	

Species list

Plant Name	Plant Density
Deschampsia flexuosa	25
Dicranum scoparium	0
Erica cinerea	1
Festuca filiformis	1
Festuca ovina	5
Molinia caerulea	1
Pseudoscleropodium	50

Location - unit number	Grid referance	Region	Author
Unit 35	TM4549969674	East Suffolk	Toby Abrehart

Three metre wide strip of low Calluna vulgaris heathland between two fire breaks

Some bare soils under the Calluna

Date	Quadrat Number
15/12/2013	205
Altitude	**Soil Depth**
9m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

30cm,

Layers Cover

95%

Geology:

Compacted sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	85
Festuca ovina	5
Holcus lanatus	1
Pteridium aquilinum	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4545869718	East Suffolk	Toby Abrehart

Area of recovering Calluna vulgaris heath and Deschampsia grasslands

Bracken scattered through the site though numerous dead and dying plants are apparent throughout.

Nearby Galium saxatile,

Date	Quadrat Number
25/06/2013	206
Altitude	**Soil Depth**
9m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
25cm	
Layers Cover	
90%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	5
Campylopus introflex	25
Molinia caerulea	80
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4535469809	East Suffolk	Toby Abrehart

Molinia caerulea grasslands running east of the main fire track

Scattered Bracken throughout. Though it appears to be reducing well.

The bracken is encraoching into the Heather along all the edges where there was Bracken.

Date	Quadrat Number
25/06/2013	207
Altitude	**Soil Depth**
8m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

25cm,10mm

Layers Cover

85%40%

Geology:

sandy soils compacted

Species list

Plant Name	Plant Density
Calluna vulgaris	5
Campylopus introflex	35
Cladonia squamosa	1
Deschampsia flexuosa	10
Erica cinerea	5
Molinia caerulea	70
Pteridium aquilinum	8

Location - unit number	Grid referance	Region	Author
Unit 35	TM4539469937	East Suffolk	Toby Abrehart

Molinia caerulea grassland on north slope of heath. The area has been sprayed to reduce the Bracken cover, this has been successful to a point. The Molinia is recovering well through this section of the heath. Within this grassland are numerous Calluna plants scattered about.

To the south is an are of Ulex and Bracken dominated scrub. With scattered Scots Pine and Betula pendula.

Date	Quadrat Number
15/12/2013	208
Altitude	**Soil Depth**
8m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
15cm	
Layers Cover	
80%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	2
Campylopus introflex	25
Festuca filiformis	1
Festuca ovina	1
Molinia caerulea	80
Pseudoscleropodium	20
Pteridium aquilinum	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4548470053	East Suffolk	Toby Abrehart

Molinia caerulea dominated grasslands, occassional Pteridium aquilinum scattered througout. Within the community are occassioanal Betula pendula, Quercus robur and Pinus sylvestris.

Date	Quadrat Number
25/06/2013	209
Altitude	**Soil Depth**
7m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
25	
Layers Cover	
95	
Geology:	
Sandy soils	

Species list

Plant Name	Plant Density
Dicranum scoparium	25
Grass thatch	5
Molinia caerulea	90
Pteridium aquilinum	5

Location - unit number	Grid referance	Region	Author
Unit 35	TM4551970019	East Suffolk	Toby Abrehart

One of three patches of heath on this slope of the site.

Old Calluna heath with an even cover of plants and a large amount of Pseudoscleropodium purum as the understorey.

Scattered through the heath are plantsa of Ulex gallii and Betula pendual seedlings.

Often leggy and trampled by Red Deer

Date	Quadrat Number
25/06/2013	210
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

45cm, 10mm

Layers Cover

80%50%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	95
Pseudoscleropodium	50

Location - unit number	Grid referance	Region	Author
Unit 35	TM4543969948	East Suffolk	Toby Abrehart

Ulex gallii heath on the north slope of this heath. Nearly all the heath in this section to the west of the trackis of this type.

Low growing mostly Erica heath with abundant Ulex gallii.

A mosaic with Pinus sylvestris, Betula pendula ans Ulex europeus.

Scattered Rhodydendron, Anthylis flix and Desc caewspi scattered throughout.

Date	Quadrat Number
25/06/2013	211
Altitude	**Soil Depth**
13m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
35cm,10mm	
Layers Cover	
65%70%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	10
Carex arenaria	1
Dicranum scoparium	3
Erica cinerea	65
Hypnum cupressiform	55
Ulex gallii	15

Location - unit number	Grid referance	Region	Author
Unit 35	TM4550269850	East Suffolk	Toby Abrehart

Tall old Calluna heath with abundant Pseudoscleropodium purum understorey

Scattered Petula pendula trees throuthout with some Ulex europaeus to the northern edge.

Date	Quadrat Number
19/12/2013	212
Altitude	**Soil Depth**
15m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

65cm, 4cm

Layers Cover

95%60%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	80
Erica cinerea	15
Pseudoscleropodium	65

Location - unit number	Grid referance	Region	Author
Unit 36	TM4557069877	East Suffolk	Toby Abrehart

Short cut heather with numerous Nightjar runways cut through

Very occassioanl Pteridium, Betula and Ulex.

Date	Quadrat Number
25/06/2013	213
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
25cm	
Layers Cover	
95%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Bare mud	98
Pteridium aquilinum	2

Location - unit number	Grid referance	Region	Author
Unit 35	TM4563269882	East Suffolk	Toby Abrehart

Taller Calluna vulgaris heath up to 90cm high. Almost a pure stand

Date	Quadrat Number
25/06/2013	214
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
90cm	
Layers Cover	
95%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	95
Hypnum cupressiform	50

Location - unit number	Grid referance	Region	Author
Unit 35	TM4573769866	East Suffolk	Toby Abrehart

Calluna vulgaris and Erica heath at southern edge of the Betula woodland

Some clearance has been carried out on this southern edge, with Calluna spreading into un-canopied new areas.

Scattered Betula seedlings and Quercus robur seedlings.

Date	Quadrat Number
15/12/2013	215
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

40cm, 10mm

Layers Cover

70%65%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	55
Dicranum scoparium	5
Erica cinerea	35
Hypnum cupressiform	65

Location - unit number	Grid referance	Region	Author
Unit 35	TM4574569789	East Suffolk	Toby Abrehart

Old mixed Heath, tall with much collapsing throughout this large section of the heath. Dominated by Calluna vulgaris but with a good scattering of rica cinerea.

In the more open areas between the main Calluna vulgaris scrub are a range of other species ata low density. With, Deschampsia flexuosa, Holcus lantana, Rubus sp, Betula pendula, and Pinus sylvestris.

Date	Quadrat Number
19/12/2013	216
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
80cm	
Layers Cover	
70%35%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	85
Deschampsia flexuosa	1
Erica cinerea	10
Festuca ovina	0
Hypnum cupressiform	30
Molinia caerulea	1
Rubus sp	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4577869738	East Suffolk	Toby Abrehart

Old mature heathland , tall with some plants collapsing throughout this large section of the site

Obvious grazing by Red Deer across the site.

Ulex gallii scattered throughout.

There are numerous deep troughs with occasional Dryopteris dilatata and grazed mounds with only a small amount of regenerating Calluna but abundant mosses

Date	Quadrat Number
19/12/2013	217
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

55cm,15mm

Layers Cover

80%40%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	75
Chamerion angustifoli	1
Deschampsia flexuosa	1
Erica cinerea	10
Pseudoscleropodium	55
Ulex gallii	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4553269688	East Suffolk	Toby Abrehart

Old established heath at west of site

Dominated with Calluna with a low understorey of occassional Erica cinerea.

A good moss base with small areas of Cladonia scattered through the more open canopy.

This whole section is a more open community than the areas to the north., very occassional Deschampsia caespitosa, Ulex

Date	Quadrat Number
25/06/2013	218
Altitude	**Soil Depth**
12m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
45cm,15mm	
Layers Cover	
80%35%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Bare soil	15
Calluna vulgaris	65
Cladoina crispata	1
Cladonia fimbriata	1
Dicranum scoparium	1
Erica cinerea	15
Hypnum cupressiform	5
Polytrichum juniperin	5

Pseudoscleropodium	35

Location - unit number	Grid referance	Region	Author
Unit 35	TM4537969826	East Suffolk	Toby Abrehart

Calluna vulgaris heath, tall and leggy with some die off through the community

Occassional Scots Pine in the area.

There was a considerable amount of ground visable with numerous Deer droppings and signs of trampling.

Date	Quadrat Number
25/06/2013	219
Altitude	**Soil Depth**
14,	
Stand Area	**Sample Area**
	2x2m

Layers mean height

45cm,15mm

Layers Cover

85%75%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	65
Dicranum scoparium	10
Erica cinerea	30
Pseudoscleropodium	80

Location - unit number	Grid referance	Region	Author
Unit 35	TM4550070111	East Suffolk	Toby Abrehart

Woodlands on the north of the site. Dominated with a Betula pendula canopy

Understorey of a mosaic of Molinia, Lonicera and Cerat clav.dominating

Occassional Pinus sylvestris scattered through. Holly is a common component of the mid shrub layer

Date	Quadrat Number
25/06/2013	220
Altitude	**Soil Depth**
7m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

10m, 30cm, 10mm

Layers Cover

95%75%10%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	95
Ceratocapnos clavicul	10
Dicranum scoparium	1
Festuca filiformis	1
Hypnum cupressiform	4
Ilex aquifolium	1
Lonicera periclymenu	15
Molinia caerulea	40
Polytrichum juniperin	1
Pteridium aquilinum	3
Quercus robur	3

Location - unit number	Grid referance	Region	Author
Unit 35	TM4560670165	East Suffolk	Toby Abrehart

Betula woodland, same as Quad 113, with more Molinia to the east.

Several young Betula trees dead numerous fallen branches.

Date	Quadrat Number
25/06/2013	221
Altitude	**Soil Depth**
15m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

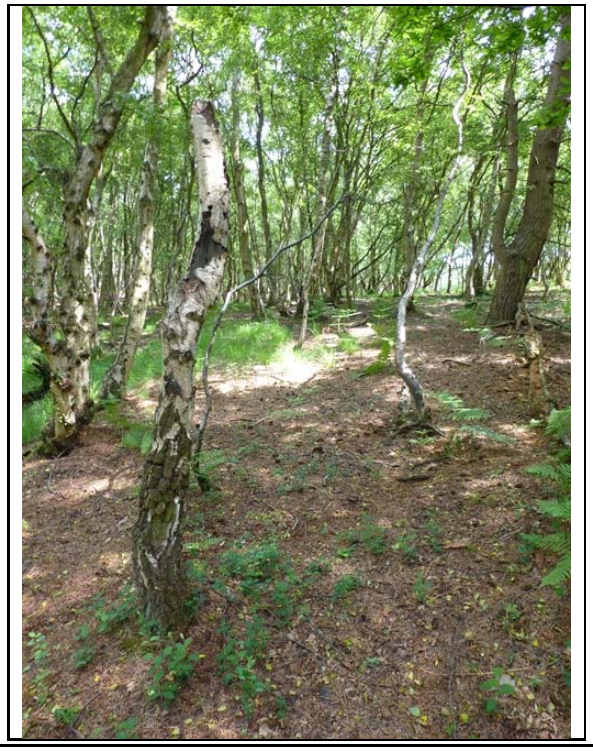
10m, 20cm

Layers Cover

90%30%

Geology:

Sandy soils



Species list

Plant Name	Plant Density
Betula pendula	75
Ceratocapnos clavicul	5
Dicranum scoparium	1
Hypnum cupressiform	2
Lonicera periclymenu	10
Molinia caerulea	10
Open canopy	10
Pinus sylvestris	10
Pseudoscleropodium	3
Pteridium aquilinum	5
Quercus robur	5

Location - unit number	Grid referance	Region	Author
Unit 35	TM4566070189	East Suffolk	Toby Abrehart

Betula woodland at the eastern end of this wood.

Very similar throughout, but this section of the wood has a more obvoius abundance of Bryophytes as a major part of the community.

See bag 6.

Sorbus auciparia and pinus sylvestris seedlings in the understorey, only 20cm high.

Date	Quadrat Number
25/06/2013	222
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

10m, 25cm, 15mm

Layers Cover

80%30%40%

Geology:

Sandy soils

Species list

Plant Name	Plant Density
Betula pendula	90
Calluna vulgaris	1
Ceratocapnos clavicul	2
Leucobryum glaucum	25
Lonicera periclymenu	20
Molinia caerulea	5
Pseudoscleropodium	20
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4574570157	East Suffolk	Toby Abrehart

South eastern end of the wood. There is a more open canopy through this section of the wood, allowing more light in creating a more dense graound flora.

It is still a species poor habitat but with some Calluna , low and depauperate.

Abundant bryophytes

Date	Quadrat Number
25/06/2013	223
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

8m, 15cm, 15mm

Layers Cover

70%40%50%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	60
Campylopus introflex	2
Erica cinerea	30
Galium saxatile	2
Lonicera periclymenu	5
Molinia caerulea	1
Pseudoscleropodium	25
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4580770038	East Suffolk	Toby Abrehart

Molinia dominated grassland,m surrounding the grassland are several areas of retained birch woodland,with occassional Ulex and Pinus.

A uniform community with scattered Carex pilufera.

Also scatered through out are Cerat clav, Agro vin, Gal sax, Lonicera peri and Pteridium.

Date	Quadrat Number
25/06/2013	224
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
25cm	
Layers Cover	
100%	
Geology:	
Sandy soils	

Species list

Plant Name	Plant Density
Carex pilulifera	1
Deschampsia flexuosa	1
Molinia caerulea	98

Location - unit number	Grid referance	Region	Author
Unit 35	TM4582069999	East Suffolk	Toby Abrehart

Area of developing Molinia caerulea, with recently cleared Pteridium aquilinum as is evident in the thatch layer and sparse plants.

To the east of this quad, within the olinia there is a small amount of Calluna developing within the\sward.

Date	Quadrat Number
25/06/2013	225
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
20cm	
Layers Cover	
45%	
Geology:	
Sandy soils	

Species list

Plant Name	Plant Density
Carex pilulifera	10
Ceratocapnos clavicul	3
Festuca ovina	1
Molinia caerulea	30
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4587869956	East Suffolk	Toby Abrehart

Area of Molinia caerulea grassland running between the track and the Betula scrubby woodland.

A more diverse community, possibly a bit more damp than nearby as is indicated by the Erica tetralix.

Nearby, Stellaria graminiea, Cirsium arvense, Rubus sp, and Luz multi multi.catsear,

Date	Quadrat Number
25/06/2013	226
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
25cm	
Layers Cover	
100%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	15
Erica tetralix	1
Luzula multiflora	1
Molinia caerulea	75
Potentilla erecta	2
Quercus robur	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4570569945	East Suffolk	Toby Abrehart

Southern woodland of the top end of the unit.

Same as the other woods though a bit younger.

Betula domiinated wood with the understorey of Pterid, Lonicm and some Molinia

Date	Quadrat Number
15/12/2013	227
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

8m, 60cm, 10mm

Layers Cover

80%60%10%

Geology:

Sandy soils

Species list

Plant Name	Plant Density
Betula pendula	90
Brachyhecium velutin	1
Ceratocapnos clavicul	2
Deschampsia flexuosa	1
Festuca ovina	1
Ilex aquifolium	1
Leucobryum glaucum	2
Lonicera periclymenu	15
Molinia caerulea	10
Polytrichum commune	1
Pseudoscleropodium	0
Pteridium aquilinum	15
Ulex europaeus	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4563170007	East Suffolk	Toby Abrehart

Betula woodland, as previous quad

Date	Quadrat Number
25/06/2013	228
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

8m, 25cm, 10mm

Layers Cover

70%60%10%

Geology:

Sandy soils

Species list

Plant Name	Plant Density
Betula pendula	80
Ceratocapnos clavicul	3
Ilex aquifolium	5
Lonicera periclymenu	2
Molinia caerulea	8
Polytrichum formosu	1
Pseudoscleropodium	1
Pteridium aquilinum	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4589969797	East Suffolk	Toby Abrehart

Ulex scrub, dominated by Ulex though with some Crataegus, Sambucas, Sorbus, Betulam and the odd Quercus

Short grazed grassland to the west which continues all down the track.

Sorbus auciparia has been blown down nearby. Some of it is still alive.

Date	Quadrat Number
15/12/2013	229
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	5x5m
Layers mean height	
1.8m	
Layers Cover	
100%	
Geology:	
Sandy soils	

Species list

Plant Name	Plant Density
Crataegus monogyna	5
Ulex europaeus	95

Location - unit number	Grid referance	Region	Author
Unit 35	TM4588569764	East Suffolk	Toby Abrehart

Calluna vulgaris heath.

Occasional Ulex gallii, though very scarce.

Occ desc flex

Date	Quadrat Number
25/06/2013	230
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
1m, 15mm	
Layers Cover	
95%60%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	95
Erica cinerea	5
Pseudoscleropodium	60

Location - unit number	Grid referance	Region	Author
Unit 35	TM4582469741	East Suffolk	Toby Abrehart

Acid grassland at the sides of the main track running through the site.

Desc flex, Fest ovina dominated. 49%

Date	Quadrat Number
15/12/2013	231
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

20cm 10mm

Layers Cover

98%10%

Geology:

Sandy soils

Species list

Plant Name	Plant Density
Achillea millefolium	1
Agrostis capillaris	15
Calluna vulgaris	10
Deschampsia flexuosa	10
Dicranum scoparium	1
Erica cinerea	15
Festuca ovina	5
Galium saxatile	1
Hypochaeris radicata	5
Lotus corniculatus	1
Luzula multiflora	2
Poa pratensis	1
Pseudoscleropodium	30
Rumex acetosella	2

Location - unit number	Grid referance	Region	Author
Unit 35	TM4596269614	East Suffolk	Toby Abrehart

Car Park.

The gravel community that is the car park.
OV community dominated with Plan maj.

Date	Quadrat Number
26/06/2013	232
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

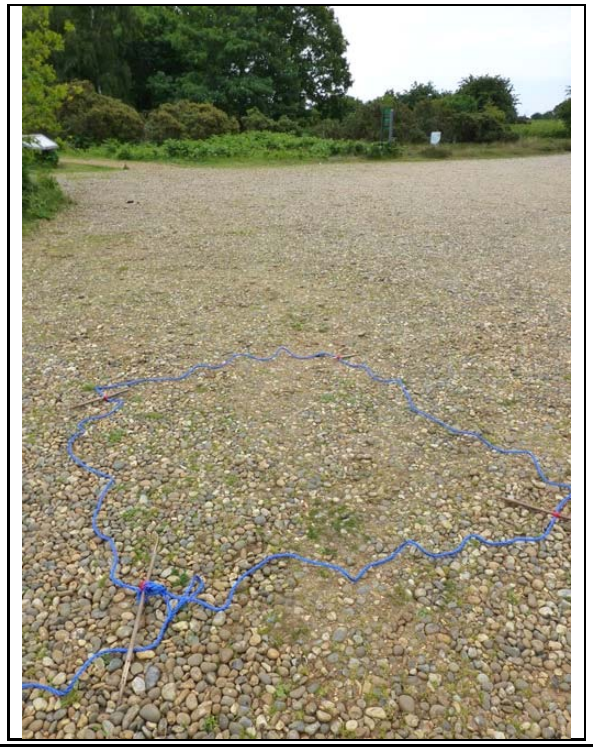
10mm

Layers Cover

40%

Geology:

compacted gravel



Species list

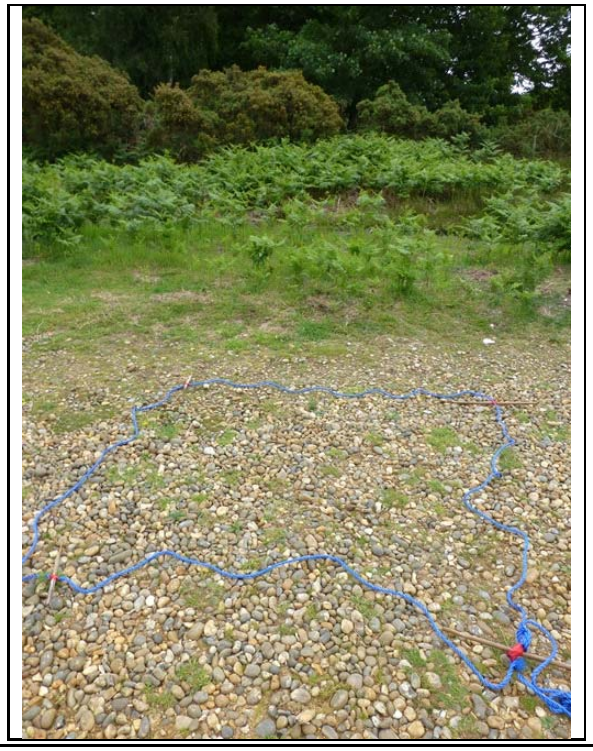
Plant Name	Plant Density
Bromus hordeaceus	1
Cerastium fontanum	1
Cerastium glomeratu	1
Plantago major	15
Poa annua	10
Polygonum aviculare	1
Senecio jacobaea	1
Spergularia rubra	1

Trifolium repens	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4599069611	East Suffolk	Toby Abrehart

Eastern end of the car park, more stable gravels more dense vegetation across this end of the site.

Date	Quadrat Number
15/12/2013	233
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10mm	
Layers Cover	
40%	
Geology:	
compacted gravels	



Species list

Plant Name	Plant Density
Aphanes australis	1
Campylopus introflex	2
Cerastium semidecand	1
Cirsium vulgare	1
Crassula tillaea	1
Epilobium ciliatum	1
Erodium cicutarium	1
Filago vulgaris	1
Gnaphalium uliginosu	1
Holcus mollis	10
Lolium perenne	1
Medicago lupulina	1
Plantago coronopus	2
Plantago major	1
Poa annua	10
Sagina apetala	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4597969657	East Suffolk	Toby Abrehart

Older track running along the eastern end of the site.

An OV community, more species diverse than the main car park.

Grazed compacted Agrostis and Poas

Date	Quadrat Number
26/06/2013	234
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10mm	
Layers Cover	
70%	
Geology:	
compacted gravels	

Species list

Plant Name	Plant Density
Agrostis capillaris	35
Arenaria serpyllifolia s	1
Cerastium fontanum	1
Cerastium semidecand	1
Crassula tillaea	1
Hypochaeris glabra	1
Ornithopus perpusillu	1
Plantago coronopus	2
Plantago major	1
Poa annua	10
Rumex acetosella	2
Sagina apetala	2
Senecio jacobaea	1
Spergularia rubra	1
Trifolium repens	1
Vulpia bromoides	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4597069664	East Suffolk	Toby Abrehart

Along the old track to the old car parking area. Several damp depressions through here with a different OV community.

Date	Quadrat Number
26/06/2013	235
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
15mm	
Layers Cover	
30%	
Geology:	
compacted gravels	

Species list

Plant Name	Plant Density
Anagallis arvensis	3
Cirsium vulgare	1
Conopodium majus	1
Juncus bufonius	1
Plantago coronopus	1
Plantago major	1
Poa annua	10
Polygonum aviculare	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4596969643	East Suffolk	Toby Abrehart

Area of old car park.

Moss sp 1, pale tipped curley ended moss

Dominated with this species, scattered throughout are smaller areas of encroaching Carex arenaria, Agrostis can, Molinia, Desc caes and Rum acetosella

Date	Quadrat Number
26/06/2013	236
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
5mm	
Layers Cover	
100%	
Geology:	
compacted sands	

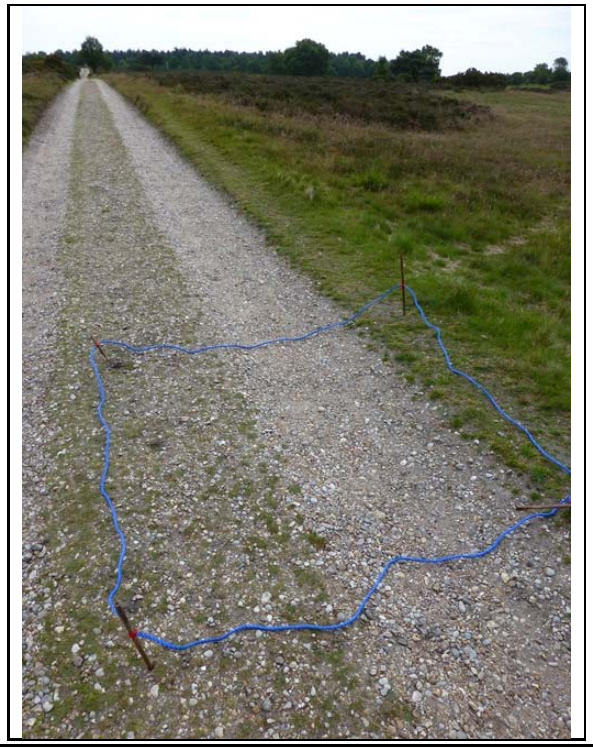
Species list

Plant Name	Plant Density
Campylopus introflex	100

Location - unit number	Grid referance	Region	Author
Unit 35	TM4562669642	East Suffolk	Toby Abrehart

Main track running through the middle of the site

Date	Quadrat Number
26/06/2013	237
Altitude	**Soil Depth**
13m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
10mm	
Layers Cover	
30%	
Geology:	
compacted gravel track	



Species list

Plant Name	Plant Density
Aphanes australis	1
Cerastium semidecand	1
Crassula tillaea	2
Juncus bufonius	1
Plantago coronopus	10
Plantago major	1
Poa annua	5
Sagina apetala	3
Sagina procumbens	2
Senecio jacobaea	1
Veronica arvensis	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4573869511	East Suffolk	Toby Abrehart

Southern side of SSSI.

East side of track, dominated with Calluna and Festuca ovina. Occ Betula seedlings.

Bracken appears to have been eradicated for now, numerous remains within the community

Date	Quadrat Number
19/12/2013	238
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

25cm,10mm

Layers Cover

75%40%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	55
Deschampsia flexuosa	1
Dicranum scoparium	5
Erica cinerea	5
Festuca ovina	20
Hypnum cupressiform	1
Pseudoscleropodium	35

Location - unit number	Grid referance	Region	Author
Unit 35	TM4574069515	East Suffolk	Toby Abrehart

Molinia caerulea slope to west of track.

Running from the roadside into the SSSI. Has been dominated with Pteridium aqu, which has been sprayed back and could do with another dose.

Dense Pteridium thatch throughout this side of the slope.

There is a small gulley running near to the track, in the sides of this are a small amount

Date	Quadrat Number
26/06/2013	239
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
25cm	
Layers Cover	
65%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Carex nigra	1
Deschampsia flexuosa	1
Festuca ovina	2
Molinia caerulea	55
Pteridium aquilinum	10
Pteridium thatch	35

Location - unit number	Grid referance	Region	Author
Unit 35	TM4578469443	East Suffolk	Toby Abrehart

Small are 14m x 2m that is more dominated with Cladonia heathland.

Date	Quadrat Number
26/06/2013	240
Altitude	**Soil Depth**
15m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

10cm,10mm

Layers Cover

35%80%

Geology:

compacted sandy soils

Species list

Plant Name	Plant Density
Aira praecox	2
Calluna vulgaris	10
Cladonia portentosa	20
Erica cinerea	15
Festuca ovina	7
Polytrichum commune	60
Rumex acetosella	3

Location - unit number	Grid referance	Region	Author
Unit 35	TM4578769421	East Suffolk	Toby Abrehart

Calluna vulgaris heathland adjacent to the track.

Within the Molinia here is a mosaic oc Molinia and Calluna heath

Date	Quadrat Number
26/06/2013	241
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

20cm,10mm

Layers Cover

75%60%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Aira praecox	1
Calluna vulgaris	60
Carex arenaria	2
Carex pilulifera	2
Cladonia coccifera	2
Dicranum scoparium	15
Erica cinerea	15
Festuca ovina	5
Pseudoscleropodium	60
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4580269412	East Suffolk	Toby Abrehart

Middle section of the Molinia caerulea grasslands.

A mosaic of Molinia and Deasc flex through this more mature section of the grassland. Whereas nearly pure Molinia in the northern section where the Pteridium has been recently reduced.

Date	Quadrat Number
26/06/2013	242
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

25cm, 10mm

Layers Cover

95%20%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Campylopus introflex	5
Carex arenaria	4
Carex nigra	1
Cladonia fimbriata	0
Deschampsia flexuosa	50
Festuca ovina	20
Hypnum cupressiform	25
Molinia caerulea	30

Location - unit number	Grid referance	Region	Author
Unit 35	TM4584569418	East Suffolk	Toby Abrehart

Molinia caerulea dominated grassland at the eastern edge of the community.

More heavily Deer grazed in this section.

A greater amount of Carex arenaria as the slope becomes drier.

Date	Quadrat Number
26/06/2013	243
Altitude	**Soil Depth**
15m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

20cm,10mm

Layers Cover

90%35%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Carex arenaria	10
Deschampsia flexuosa	30
Festuca ovina	5
Galium saxatile	1
Molinia caerulea	45
Pseudoscleropodium	35

Location - unit number	Grid referance	Region	Author
Unit 35	TM4578469329	East Suffolk	Toby Abrehart

Molinia caerulea - Calluna vulgaris mosaic.

This habitat is scattered all along the margins of the Molinia community, spreading up to 3 metres into the Caluna along most of the margin.

Date	Quadrat Number
26/06/2013	244
Altitude	**Soil Depth**
15m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

30cm,10mm

Layers Cover

90%35%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare ground	10
Calluna vulgaris	25
Deschampsia flexuosa	30
Festuca ovina	5
Molinia caerulea	40
Polytrichum commune	2
Pseudoscleropodium	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4577569279	East Suffolk	Toby Abrehart

Main track running up the western boundary.

Mostly open track with limited vegetation. In low lying areas there are damp comunities developed.

Date	Quadrat Number
15/12/2013	245
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
3cm	
Layers Cover	
20%	
Geology:	
compacted sandy soils	

Species list

Plant Name	Plant Density
Agrostis capillaris	1
Bare gravel	80
Erica tetralix	1
Juncus squarrosus	8
Molinia caerulea	8
Poa annua	2

Location - unit number	Grid referance	Region	Author
Unit 35	TM4577369225	East Suffolk	Toby Abrehart

Damp area 3 metres wide extending for 45m. Ten metres above the Scots pine -north.

Erica tetralix and Juncus squa infrequent but an obvoius component of the community.

Date	Quadrat Number
26/06/2013	246
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
30cm, 5cm, 10mm	
Layers Cover	
60%35% 20%	
Geology:	
Sandy soils	

Species list

Plant Name	Plant Density
Bare soil	5
Betula pendula	1
Calluna vulgaris	60
Erica tetralix	20
Juncus squarrosus	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4581569208	East Suffolk	Toby Abrehart

A large area of heavily grazed heathland. There are a large number of Calluna vulgaris and Erica cinerea plants trampled and obvoius signs of grazing through out the sward in all of this southern section of the heath

Heathers often no higher than 10cm, nothing higher than 40cm.

Where there is the highest grazign the heaths are are all very stunted, giving rise to a more

Date	Quadrat Number
26/06/2013	247
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm, 3cm, 10mm

Layers Cover

25%50%70%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	10
Cladonia fimbriata	1
Cladonia portentosa	8
Dicranum scoparium	25
Erica cinerea	55
Festuca ovina	20
Pseudoscleropodium	50
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4578869170	East Suffolk	Toby Abrehart

Mosaic grassland heath. With small amount of Cladonia scattered in the south western corner of the gulley.

Date	Quadrat Number
26/06/2013	248
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

20cm,5cm,10mm

Layers Cover

40%50%20%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	2
Cladonia fimbriata	5
Dicranum scoparium	15
Erica cinerea	40
Festuca ovina	40
Galium saxatile	1
Hypnum cupressiform	20
Rumex acetosella	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4594769211	East Suffolk	Toby Abrehart

Area of Calluna vulgaris heath at southern boundary of the unit.

Where the Calluna has been more heavily grazed this has allowed the Erica cinerea to become more dominant in the community.

Species poor

Date	Quadrat Number
26/06/2013	249
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
35cm, 5cm, 10mm	
Layers Cover	
65%30%25%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	30
Erica cinerea	50
Festuca ovina	2
Galium saxatile	1
Hypnum cupressiform	35

Location - unit number	Grid referance	Region	Author
Unit 35	TM4593569199	East Suffolk	Toby Abrehart

Area along the southern boundary which has been rabbit grazed to create a mosaic of Heath and U1 grassland.

Scattered tussocks of either Calluna or Erica throughout.

Date	Quadrat Number
15/12/2013	250
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm, 10mm

Layers Cover

80%20%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Agrostis capillaris	25
Agrostis vinealis	2
Calluna vulgaris	5
Carex pilulifera	1
Erica cinerea	2
Festuca ovina	35
Galium saxatile	1
Pteridium aquilinum	4
Pteridium thatch	30
Rumex acetosella	2

Location - unit number	Grid referance	Region	Author
Unit 35	TM4592469247	East Suffolk	Toby Abrehart

An area of cleared Pteridium aquilinum/sprayed.

It is now developing a heathland community though it has a low levelof vegetation at the moment.

Deep soft bracken thatch layer

Date	Quadrat Number
26/06/2013	251
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
2cm	
Layers Cover	
30%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	1
Festuca ovina	2
Holcus lanatus	1
Luzula multiflora	1
Pteridium aquilinum	4
Rumex acetosella	30

Location - unit number	Grid referance	Region	Author
Unit 35	TM4597069283	East Suffolk	Toby Abrehart

Large area of continued U1 grassland mosaic with Calluna heath.

Scattered Ulex europeus.

Scattered Betula pendula across this southern end of the heath

Date	Quadrat Number
26/06/2013	252
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

8cm, 2cm, 10mm

Layers Cover

20%75%30%

Geology:

sandy soild

Species list

Plant Name	Plant Density
Agrostis capillaris	50
Calluna vulgaris	5
Dicranum scoparium	15
Erica cinerea	10
Festuca ovina	15
Hypnum cupressiform	50
Rumex acetosella	15

Location - unit number	Grid referance	Region	Author
Unit 35	TM4604169307	East Suffolk	Toby Abrehart

Calluna vulgaris festuca heath with some Deschampsia flexuosa.

Heavily Rabit grazed and considerable Red Deer grazing too.

Abundant Pseudoscleropodium purum through here too

Large areas to the south have Had bracken clearance carried out with the effect of a Calluna community delevoping.

Date	Quadrat Number
26/06/2013	253
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
6cm, 10mm	
Layers Cover	
50%50%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Agrostis capillaris	15
Calluna vulgaris	25
Carex pilulifera	3
Dicranum scoparium	10
Erica cinerea	15
Festuca ovina	30
Holcus lanatus	3
Hypnum cupressiform	25
Pseudoscleropodium	40
Rumex acetosella	4

Location - unit number	Grid referance	Region	Author
Unit 35	TM4607769301	East Suffolk	Toby Abrehart

Calluna vulgaris doninated area of heath that is being restored from the Pteridium aquilinum.

All low growing vegatation at the moment.

Within the nearby Bracken dominated heath to the south there are llarge quantities of Rumex acetosella and very limitied Calluna.

Scattered Carex pilifera.

Date	Quadrat Number
26/06/2013	254
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
8cm,100mm	
Layers Cover	
85%15%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Bare soil	15
Calluna vulgaris	85
Ceratocapnos clavicul	1
Deschampsia flexuosa	1
Dicranum scoparium	10
Galium saxatile	1
Hypnum cupressiform	20
Poa annua	2
Rumex acetosella	1
Stellaria pallida	1

Location - unit number	Grid referance	Region	Author
Unit 35	TM4613669337	East Suffolk	Toby Abrehart

Area of cleared Pteridium aquilinum, limithed thatch, appears to have held water this winter.

Date	Quadrat Number
26/06/2013	255
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

5cm, 2cm,10mm

Layers Cover

10%60%40%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Betula pendula	1
Calluna vulgaris	15
Carex pilulifera	20
Dicranum scoparium	35
Hypnum cupressiform	20
Pteridium aquilinum	1
Rumex acetosella	55

Location - unit number	Grid referance	Region	Author
Unit 35	TM4615469428	East Suffolk	Toby Abrehart

Area of cleared Pteridium aquilinum, part of this large area recently being restored.Becoming more moss dominant thropugh this section with less Calluna

Date	Quadrat Number
26/06/2013	256
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

2cm,10mm

Layers Cover

45%55%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	3
Campylopus introflex	40
Carex pilulifera	10
Festuca ovina	4
Rumex acetosella	30

Location - unit number	Grid referance	Region	Author
Unit 35	TM4617469424	East Suffolk	Toby Abrehart

Oak eastern margin, understorey of Pteridium and Holcus mollis, some rubus.

Date	Quadrat Number
26/06/2013	257
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	10x10m

Layers mean height

7m, 50cm, 8cm

Layers Cover

95%40%60%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Crataegus monogyna	10
Holcus mollis	60
Pteridium aquilinum	40
Quercus robur	95
Rubus sp	5
Rumex acetosella	1
Sorbus aucuparia	5
Ulmus minor subsp. m	3

Location - unit number	Grid referance	Region	Author
Unit 35	TM4608269427	East Suffolk	Toby Abrehart

Area of sprayed Pteridium aquilinum recovering heath.

Moss dominated

Date	Quadrat Number
26/06/2013	258
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
4cm,10mm	
Layers Cover	
40%60%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Calluna vulgaris	5
Campylopus introflex	60
Carex pilulifera	20
Erica cinerea	10
Festuca ovina	10
Rumex acetosella	40

Location - unit number	Grid referance	Region	Author
Unit 35	TM4599469424	East Suffolk	Toby Abrehart

Western end of the area cleared of Pteridium aquilinum.

Very similar flora here.

Date	Quadrat Number
26/06/2013	259
Altitude	**Soil Depth**
14m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

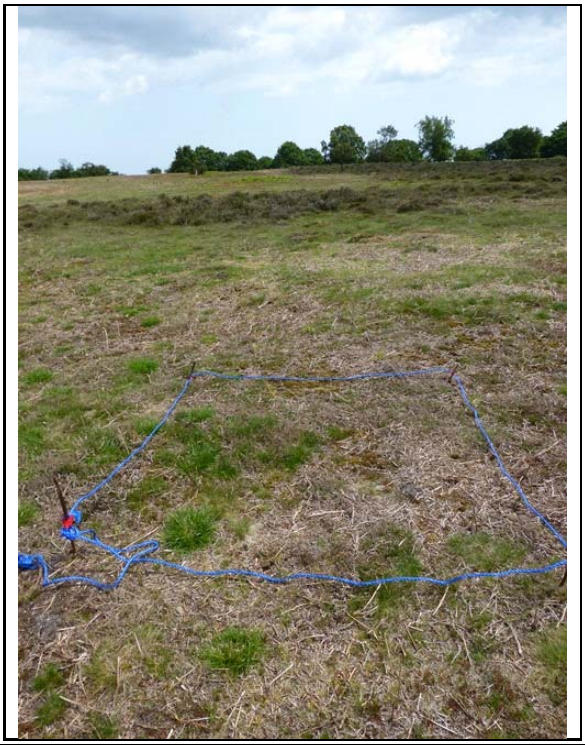
3cm,10mm

Layers Cover

60%40%

Geology:

sandy soils



Species list

Plant Name	Plant Density
Calluna vulgaris	40
Campylopus introflex	40
Carex pilulifera	10
Deschampsia flexuosa	10
Dicranum scoparium	20
Festuca ovina	10
Rumex acetosella	20

Location - unit number	Grid referance	Region	Author
Unit 35	TM4611069546	East Suffolk	Toby Abrehart

Small area of acid grassland at east of site. Surrrounded by Ulex and Pteridium aquilinum.

Heavily grazed with calluna heath scattered.

Date	Quadrat Number
15/12/2013	260
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
2cm	
Layers Cover	
100%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Agrostis capillaris	30
Dicranum scoparium	13
Erica cinerea	35
Festuca ovina	30
Galium saxatile	2
Pseudoscleropodium	70
Rumex acetosella	10

Location - unit number	Grid referance	Region	Author
Unit 35	TM4612669555	East Suffolk	Toby Abrehart

Scrub vegetation at the eastern end of the site. This type is common throughout and this is a typical sample of this.

Ulex europeus and Rubus sp dominated, with a backdrop of Crataegus monogyna and Sorbus auciparia

Date	Quadrat Number
26/06/2013	261
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	5x5m
Layers mean height	
1.5, 2.5	
Layers Cover	
40%60%	
Geology:	
Sandy soils	

Species list

Plant Name	Plant Density
Dryopteris filix-mas	1
Rubus sp	30
Rumex acetosella	1
Ulex europaeus	70

Location - unit number	Grid referance	Region	Author
Unit 35	TM4611269491	East Suffolk	Toby Abrehart

Area along the gulley. This northern slope has a community of Calluna erica heath with abundant grasses and mosses.

The heather plants are al heavily grazed into rounded mounds.

Date	Quadrat Number
26/06/2013	262
Altitude	**Soil Depth**
19m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
5cm	
Layers Cover	
100%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Campylopus introflex	5
Campylopus introflex	15
Cladonia portentosa	2
Erica cinerea	50
Festuca ovina	15
pseudoscleropodium	40
Rumex acetosella	5

Location - unit number	Grid referance	Region	Author
Unit 35	TM4597769523	East Suffolk	Toby Abrehart

Area of Acid grassland U1. Area recently (last couple of years) cleared of Pteridium aquilinum. Successful regrowth of grassland species.

Date	Quadrat Number
26/06/2013	263
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
8cm,10mm	
Layers Cover	
70%50%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Agrostis capillaris	55
Carex pilulifera	5
Crataegus monogyna	1
Festuca ovina	30
Galium saxatile	4
Pseudoscleropodium	30
Rumex acetosella	5

Location - unit number	Grid referance	Region	Author
Unit 35	TM4595569533	East Suffolk	Toby Abrehart

Pteridium aquilinum dominated heathland, a large section of uniform habitat

Date	Quadrat Number
26/06/2013	264
Altitude	**Soil Depth**
16m	
Stand Area	**Sample Area**
	2x2m
Layers mean height	
1m,10cm	
Layers Cover	
70%50%	
Geology:	
sandy soils	

Species list

Plant Name	Plant Density
Pteridium aquilinum	70
Pteridium thatch	80
Teucrium scorodonia	50

Location - unit number	Grid referance	Region	Author
Unit 35	TM4591269423	East Suffolk	Toby Abrehart

Area of heathland inbetween grasslands.

Very uniform habitat throughout the heath. Scattered plants of Calluna well grazed and trampled. Numerous paths through the habitat.

A gentle covering of Deschampsia flexuosa across the sward.

Date	Quadrat Number
26/06/2013	265
Altitude	**Soil Depth**
15m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

40cm,10mm

Layers Cover

60%80%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Calluna vulgaris	50
Deschampsia flexuosa	30
Erica cinerea	10
Festuca ovina	10
Pseudoscleropodium	80

Location - unit number	Grid referance	Region	Author
Unit 35	TM4584669457	East Suffolk	Toby Abrehart

Calluna vulgaris heath to the north of the Molinia grasslands

Date	Quadrat Number
26/06/2013	266
Altitude	**Soil Depth**
18m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

45cm,8cm, 10mm

Layers Cover

50%60%50%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare soil	10
Calluna vulgaris	80
Campylopus introflex	10
Deschampsia flexuosa	2
Dicranum scoparium	25
Erica cinerea	10
Hypnum cupressiform	1
Pseudoscleropodium	55

Location - unit number	Grid referance	Region	Author
Unit 35	TM4580169527	East Suffolk	Toby Abrehart

Northern edge of the heather on the southern section of this sssi.

Community consistant with the rest of this area of the site., with the inclusion of the odd Bracken plant.

Date	Quadrat Number
26/06/2013	267
Altitude	**Soil Depth**
17m	
Stand Area	**Sample Area**
	2x2m

Layers mean height

60cm, 30cm, 10cm, 10mm

Layers Cover

40%40%20%40%

Geology:

sandy soils

Species list

Plant Name	Plant Density
Bare soil	15
Calluna vulgaris	70
Campylopus introflex	10
Erica cinerea	20
Pseudoscleropodium	55
Pteridium aquilinum	1

Location - unit number	Grid referance	Region	Author
Unit 35		East Suffolk	Toby Abrehart

A list of other species of plant seen during the survey though not recorded during any of the quadrats.

Date	Quadrat Number
28/06/2013	268
Altitude	**Soil Depth**
Stand Area	**Sample Area**
Layers mean height	
Layers Cover	
Geology:	

Species list

Plant Name	Plant Density		
Acer pseudoplatanus	0	Bellis perennis	0
Agrimonia eupatoria	0	Bryonia dioica	0
Agrostis stolonifera	0	Capsella bursa-pastori	0
Alopecurus pratensis	0	Castanea sativa	0
Anagallis arvensis	0	Centaurea nigra	0
Anthoxanthum odorat	0	Chaerophyllum temul	0
Arctium minus	0	Cirsium arvense	0
Arrhenatherum elatius	0	Cochlearia danica	0