Figure S1. Annotated map illustrating how four common vegetation types (of the low, mid and high marsh) were located prior to verification via field sampling. This map shows Black Scar salt marsh and is colour-coded according to NVC class as identified by Natural Resources Wales (NRW) in the 1990's. *J. maritimus* community can be either SM18 or SM15, here only SM18 is present in light blue.

Table S1. Characterisation of soils for the 23 salt marshes included in the study. Soil are characterised into LandIS-map types (Soilscape), or by simplified soil type or texture categories based on direct empirical observations by the study.

Saltmarsh site		Soilscape category & description		Soil type (using Soilscape category description)	Simplified soil type (using field texture score)	Soil texture category (roll test)
MM	Morfa Madryn	21	Coastal flats (loamy & clayey)	2	2	L, O
Mth	Malltraeth	- (4)	Sand dune soil (sandy)	1	1,2	S, SL, SiL
4MB	Four Mile Bridge	17	Seasonally wet acid soil (loamy & clayey)	2	2	L, SiCL, O
YF	Y Foryd	- (21)	Coastal flats (loamy & clayey)	2	2	CL, O
MH	Morfa Harlech	1	Saltmarsh soils (loamy)	2	1,2	SL, L, CL, O
SI	Shell Island	15#	Naturally wet v acid soil (sandy & loamy)	1,2	1,2	Si, CL
Fb	Fairbourne	- (21)	Coastal flats (loamy & clayey)	2	2	L
DN	Dyfi North	1	Saltmarsh soils (loamy)	2	2	CL, SiL
YH	Ynys Hir	1	Saltmarsh soils (loamy)	2	2	L, CL
DW	Dyfi West	1	Saltmarsh soils (loamy)	2	2	L, SiCL, O
Gann	The Gann	20	Floodplain soils (loamy & clayey)	2	2	CL
SH	Sandy Haven	- (6)	Free draining slightly acid soil (loamy)	2	2	CL, C
LC	Laugharne Castle	6#	Free draining slightly acid soil (loamy)	2	2	C
BS	Black Scar	1	Saltmarsh soils (loamy)	2	1,2	SL, L, CL, O
TT	Trefenty	21	Coastal flats (loamy & clayey)	2	2	CL, SiC, C, O
MU	Morfa Uchaf	1	Saltmarsh soils (loamy)	2	2	CL, O
CB	Cor-y-barlys	6	Free draining slightly acid soil (loamy)	2	2	CL, O
Gw	Gwendraeth	21	Coastal flats (loamy & clayey)	2	2	L, CL
PB	Pembrey Burrows	1	Saltmarsh soil (loamy)	2	1,2	SC, L, CL
MMr	Morfa Mawr	1	Saltmarsh soil (loamy)	2	2	CL, O
Gow	Gowerton	1	Saltmarsh soil (loamy)	2	2	L, O
SP	Salthouse Point	1	Saltmarsh soil (loamy)	2	2	CL
LM	Landimore Marsh	1	Saltmarsh soil (loamy)	2	1,2	SL, L, CL

= partially mapped, - = mapped as ocean, () = adjacent to Soilscape category
Simplified soil type (2 levels: 1. 'Sandy' soil with ≥0.45 sand; 2. 'Non-sandy' soils with <0.45 sand including loam, clay, organic soils)

Table S2. Site information, plant and soil characteristics for all study saltmarshes, mean ± standard error. Colour coding relates to the four Natural Vegetation Classification (NVC) classes studied: yellow = *Puccinellia maritima* (SM13); green = *Juncus gerardii* (SM16), red = *Atriplex portulacoides* (SM14) and blue = *Juncus maritimus* (SM15 or SM18). NVC sub-classes are noted by subscripts (a, b, c, d or e).

Site information			Plant characteristics						Soil characteristics						
Name	BNG grid reference	Grazing	Vegetation type	NVC class	Species richness (m^{-2})	Diversity (S-W) H'	Height (cm)	Root biomass (kg DW m^{-2})	pH	EC (mS cm^{-1})	Bulk density (g cm^{-3})	Organic matter (%)	Carbon stock (t C ha^{-1})	Texture category & Simplified soil type	
Morfa Madryn	SH 66938 74628	S	*P. maritima*	SM13 (a)	4.5 ± 0.5	1.0 ± 0.0	13 ± 8	1.3 ± 0.7	6.6 ± 0.1	16 ± 2	0.59 ± 0.15	20 ± 11.1	36 ± 3	L (O)	2
			J. gerardii#	SM16 (b)	4.5 ± 0.5	0.7 ± 0.1	36 ± 3	5.0 ± 0.1	6.1 ± 0.2	16 ± 1	0.17 ± 0.02	63 ± 0.5	59 ± 5	O	2
Malltraeth	SH 39837 65973	none	*A. portulacoides*#	SM14 (c)	5.5 ± 1.5	1.2 ± 0.4	18 ± 1	1.5 ± 1.3	6.8 ± 0.3	14 ± 6	0.8 ± 0.14	6 ± 4.5	22 ± 16	S, SiL	1, 2
			J. gerardii#	SM16 (b)	6.0 ± 1.0	1.3 ± 0.1	13 ± 1	3.0 ± 0.2	6.3 ± 0.0	20 ± 2	0.30 ± 0.01	28 ± 3.5	44 ± 6	SiL	1
			J. maritimus	SM18	4.3 ± 0.3	1.1 ± 0.1	48 ± 2	1.7 ± 0.6	7.0 ± 0.1	2 ± 0	0.68 ± 0.12	7 ± 2.3	22 ± 3	S, SL	1
Four Mile Bridge	SH 28068 78155	none	*P. maritima*	SM13 (d)	7 ± 0.4	1.3 ± 0.1	10 ± 1	2.0 ± 0.3	6.5 ± 0.0	23 ± 1	0.53 ± 0.03	12 ± 1.1	35 ± 2	SiCL	2
			J. gerardii	SM16 (c, d)	4.5 ± 0.6	0.9 ± 0.1	26 ± 1	2.6 ± 0.2	6.7 ± 0.0	17 ± 1	0.33 ± 0.02	30 ± 2.8	54 ± 2	L (SiCL)	2
			J. maritimus	SM15	6 ± 1.7	1.0 ± 0.3	54 ± 8	5.2 ± 1.0	6.6 ± 0.1	15 ± 4	0.21 ± 0.03	44 ± 7.1	48 ± 4	O	2
Y Foryd	SH 44468 58537	none	*P. maritima*	SM13a (c, d)	8.5 ± 0.6	1.4 ± 0.1	14 ± 2	2.2 ± 0.4	5.8 ± 0.2	15 ± 0	0.56 ± 0.03	11 ± 0.6	33 ± 0	CL	2
			J. gerardii	SM16 (b, d)	5.5 ± 0.3	1.2 ± 0.1	18 ± 2	2.3 ± 0.4	6.1 ± 0.2	17 ± 0	0.32 ± 0.04	29 ± 4.7	46 ± 1.0	O (CL)	2
Morfa Harlech	SH 57793 35097	C, S	*P. maritima*	SM13a (b, d)	9.3 ± 0.6	1.7 ± 0.0	8 ± 0	4.2 ± 0.2	6.2 ± 0.0	14 ± 0	0.67 ± 0.03	12 ± 3.1	44 ± 12	CL	2
			J. maritimus	SM18 (a)	8.0 ± 0.7	1.3 ± 0.0	25 ± 2	3.0 ± 0.5	6.3 ± 0.1	10 ± 0	0.81 ± 0.05	16 ± 3.4	69 ± 11	L,O,SL	2 (1)
Shell Island	SH 56338 26471	none	*P. maritima*	SM13 (a)	6.8 ± 0.5	1.6 ± 0.0	13 ± 1	2.0 ± 0.3	7.4 ± 0.0	19 ± 1	0.64 ± 0.02	9 ± 1.1	31 ± 3	CL	2
			A. portulacoides#	SM14 (a)	1.5 ± 0.5	0.1 ± 0.1	28 ± 1	0.8 ± 0.2	7.2 ± 0.1	17 ± 2	0.76 ± 0.03	6 ± 0.5	23 ± 1	CL	2
			J. maritimus	SM15	4.5 ± 0.6	0.6 ± 0.2	55 ± 2	1.6 ± 0.8	7.0 ± 0.0	13 ± 1	0.50 ± 0.01	9 ± 0.3	24 ± 0	Si	1
Fairbourne	SH 61508 13765	S	*J. gerardii*	SM16 (a)	5.5 ± 0.3	1.2 ± 0.1	8 ± 1	1.5 ± 0.3	7.2 ± 0.1	14 ± 0	0.73 ± 0.04	15 ± 2.6	58 ± 11	L	2
Dyfi North	SN 68724 97521	C, S, G	*P. maritima*	SM13a (d)	5.0 ± 0.4	1.0 ± 0.2	10 ± 1	2.6 ± 0.3	6.5 ± 0.1	11 ± 1	0.78 ± 0.03	10 ± 0.3	40 ± 2	CL	2
			J. maritimus#	SM15	8.5 ± 0.5	1.5 ± 0.1	35 ± 5	4.7 ± 2.2	6.2 ± 0.1	10 ± 1	0.45 ± 0.02	16 ± 2	39 ± 3	CL, SiL	2
Ynys Hir	SN 68194 97299	S, G	*P. maritima*	SM13 (d)	3.3 ± 0.3	1.1 ± 0.1	5 ± 0	1.8 ± 0.2	6.8 ± 0.0	9 ± 1	0.79 ± 0.04	6 ± 0.9	27 ± 3	L	2
			J. gerardii	SM16 (b)	2.5 ± 0.3	0.6 ± 0.1	20 ± 1	1.5 ± 0.2	6.8 ± 0.0	12 ± 1	0.57 ± 0.04	12 ± 0.9	37 ± 1	CL	2
Dyfi West	SN 62731 93655	S, G	*P. maritima*#	SM13	5.0 ± 0.0	1.0 ± 0.2	3 ± 1	2.8 ± 0.4	6.3 ± 0.1	22 ± 2	0.52 ± 0.05	14 ± 2	39 ± 2	SiCL	2
			J. gerardii	SM16 (d)	6.5 ± 1.0	1.0 ± 0.2	5 ± 1	2.8 ± 1.2	6.1 ± 0.0	13 ± 0	0.60 ± 0.08	16 ± 2.9	49 ± 4	L, SiCL	2
			J. maritimus#	SM18	5.0 ± 0.0	1.2 ± 0.1	45 ± 3	5.9 ± 0.4	6.3 ± 0.0	9 ± 1	0.39 ± 0.01	26 ± 0.5	54 ± 1	O	2
The Gann	SM 81339 07207	none	*P. maritima*	SM13 (d)	11.3 ± 0.5	1.6 ± 0.0	17 ± 1	3.4 ± 0.7	7.4 ± 0.1	20 ± 1	0.47 ± 0.07	18 ± 2.5	44 ± 1	CL	2
			A. portulacoides	SM14 (a)	2.8 ± 0.3	0.1 ± 0.1	21 ± 2	1.3 ± 0.1	7.6 ± 0.0	18 ± 1	0.66 ± 0.02	9 ± 0.6	33 ± 1	CL	2

Location	Grid ref	Grazing	Species	NVC											
Sandy Haven	SM 86221 08721	none	*P. maritima*	SM13 (d)	7.3 ± 0.3	1.0 ± 0.2	24 ± 1	3.7 ± 0.4	6.6 ± 0.1	23 ± 1	0.29 ± 0.02	29 ± 0.5	46 ± 2	CL, C	2
			A. portulacoides	SM14a (c)	3.5 ± 1.0	0.4 ± 0.2	27 ± 4	2.8 ± 0.9	7.1 ± 0.1	16 ± 2	0.64 ± 0.12	12 ± 3.3	35 ± 6	CL	2
Laugharne Castle	SN 30329 10743	none	*A. portulacoides*	SM14 (a)	1.5 ± 0.5	0.1 ± 0.1	31 ± 1	1.7 ± 0.4	7.1 ± 0.1	13 ± 0	0.65 ± 0.01	10 ± 0.9	36 ± 2	C	2
Black Scar	SN 31262 10866	none	*P. maritima*	SM13 (a)	4.0 ± 0.9	0.6 ± 0.1	29 ± 3	0.6 ± 0.0	6.9 ± 0.1	13 ± 0	0.58 ± 0.04	10 ± 0.6	31 ± 1	CL	2
			A. portulacoides	SM14 (a, c)	1.8 ± 0.5	0.3 ± 0.2	33 ± 2	1.1 ± 0.2	7.4 ± 0.1	12 ± 1	0.69 ± 0.02	9 ± 0.5	32 ± 1	CL	2
			J. gerardii	SM16 (b)	4.8 ± 0.3	0.9 ± 0.1	30 ± 7	3.4 ± 0.6	7.3 ± 0.1	11 ± 1	0.58 ± 0.05	16 ± 0.6	52 ± 4	O (L)	2
			J. maritimus	SM15 SM18	5.0 ± 0.4	0.8 ± 0.2	52 ± 7	2.0 ± 0.5	7.0 ± 0.0	10 ± 1	0.41 ± 0.13	15 ± 1.1	34 ± 10	O, CL, SL	2 (1)
Trefenty	SN 30298 13197	C, S	*P. maritima*	SM13 (a)	9.3 ± 0.5	0.9 ± 0.2	10 ± 1	2.3 ± 0.2	7.4 ± 0.1	10 ± 1	0.83 ± 0.07	12 ± 2.0	58 ± 13	SiC (CL)	2
			J. gerardii	SM16 (b, d)	9.8 ± 0.6	1.5 ± 0.1	9 ± 1	5.9 ± 0.9	7.5 ± 0.1	9 ± 2	0.31 ± 0.02	31 ± 1.2	53 ± 4	O	
			J. maritimus	SM18	10 ± 0.4	1.3 ± 0.1	54 ± 5	5.2 ± 1.1	7.5 ± 0.1	10 ± 1	0.52 ± 0.02	22 ± 2.1	62 ± 4	C	2
Morfa Uchaf	SN 37418 12526	C	*J. maritimus*	SM18	6.0 ± 0.4	1.2 ± 0.1	58 ± 5	4.1 ± 0.7	6.5 ± 0.1	11 ± 1	0.36 ± 0.09	30 ± 6.3	50 ± 2	CL, O	2
Cor-y-barlys	SN 38755 13858	unknown	*J. gerardii*	SM16 (b, d)	7.0 ± 0.6	1.3 ± 0.1	33 ± 3	1.7 ± 0.3	6.8 ± 0.3	14 ± 1	0.22 ± 0.04	33 ± 4.5	36 ± 5	O	2
			J. maritimus	SM18	7.0 ± 0.4	1.2 ± 0.0	47 ± 3	5.6 ± 0.9	5.9 ± 0.1	10 ± 1	0.26 ± 0.03	40 ± 4.6	56 ± 5	CL (O)	2
Gwendraeth	SN 39881 04635	C / none	*P. maritima*	SM13 (a)	7.8 ± 0.3	1.1 ± 0.1	7 ± 1	2.2 ± 0.5	7.3 ± 0.1	8 ± 2	0.82 ± 0.06	12 ± 0.7	54 ± 3	L	2
			A. portulacoides	SM14 (a)	1.3 ± 0.1	0.1 ± 0.1	32 ± 2	1.0 ± 0.3	7.2 ± 0.2	13 ± 2	0.75 ± 0.02	9 ± 0.8	37 ± 2	CL	2
			J. gerardii	SM16a (d, e)	9.3 ± 0.8	1.5 ± 0.1	15 ± 1	2.8 ± 0.2	6.9 ± 0.2	10 ± 0	0.74 ± 0.03	13 ± 0.3	54 ± 1	L	2
Pembrey Burrows	SS 42705 99822	none	*P. maritima*	SM13 (c, d)	7.5 ± 1.0	1.6 ± 0.1	26 ± 1	1.0 ± 0.2	6.9 ± 0.1	16 ± 1	0.57 ± 0.01	13 ± 0.3	40 ± 1	CL (L)	2
			A. portulacoides	SM14 (a)	1.0 ± 0.0	0.0 ± 0.0	29 ± 3	0.7 ± 0.3	7.5 ± 0.1	13 ± 1	0.92 ± 0.03	5 ± 0.5	23 ± 3	SC (CL)	1 (2)
Morfa Mawr	SN 58140 01896	S / none	*P. maritima*	SM13 (a)	4.5 ± 0.6	0.6 ± 0.1	2 ± 0	2.1 ± 0.2	7.5 ± 0.1	9 ± 1	0.69 ± 0.03	10 ± 0.4	38 ± 0	CL	2
			J. maritimus	SM18	6.3 ± 0.3	1.4 ± 0.1	47 ± 4	4.0 ± 0.7	7.5 ± 0.0	7 ± 1	0.45 ± 0.02	12 ± 2.3	30 ± 5	O	2
Gowerton	SS 55147 96086	C, P, S	*P. maritima*	SM13 (a)	5.0 ± 0.9	0.5 ± 0.0	14 ± 1	0.7 ± 0.1	7.8 ± 0.1	9 ± 0	0.96 ± 0.04	10 ± 1.6	53 ± 7	L	2
			J. gerardii	SM16 (b)	5.0 ± 0.6	0.9 ± 0.0	13 ± 1	4.2 ± 0.3	7.5 ± 0.0	16 ± 1	0.43 ± 0.04	21 ± 1.7	48 ± 6	O	2
Salthouse Point	SS 53229 95838	C, P, S	*A. portulacoides*	SM14 (a)	1.3 ± 0.3	0.0 ± 0.0	24 ± 1	1.2 ± 0.2	7.6 ± 0.0	14 ± 1	0.58 ± 0.03	11 ± 0.4	36 ± 1	CL	2
Landimore Marsh	SS 46873 93908	C, P, S	*P. maritima*	SM13 (a, d)	5.3 ± 0.6	0.4 ± 0.2	3 ± 1	1.9 ± 0.6	8.3 ± 0.0	6 ± 1	1.10 ± 0.03	5 ± 0.3	29 ± 1	SL	2
			J. gerardii	SM16 (b)	6.3 ± 0.5	1.2 ± 0.1	3 ± 0	4.6 ± 0.5	7.9 ± 0.2	11 ± 1	0.54 ± 0.05	17 ± 0.9	50 ± 4	CL	2
			J. maritimus	SM18	6.3 ± 0.5	1.4 ± 0.0	63 ± 16	0.8 ± 0.2	7.6 ± 0.1	7 ± 1	0.83 ± 0.08	10 ± 1.4	45 ± 3	CL, L	2

Grazing information refers to the locations and vegetation communities we visited; other parts of the salt marsh may differ in grazing management.

NVC class was calculated after sampling by Tablefit.

= only 2 quadrats per vegetation type instead of 4.

Grazing column: C = cattle, S = sheep, P = ponies, G = geese

EC = electrical conductivity.

Soil texture category defined in Table 2 (main manuscript).

Simplified soil type (2 levels: 1. 'Sandy' soil with ≥0.45 sand; 2. 'Non-sandy' soils with <0.45 sand including loam, clay, organic soils)
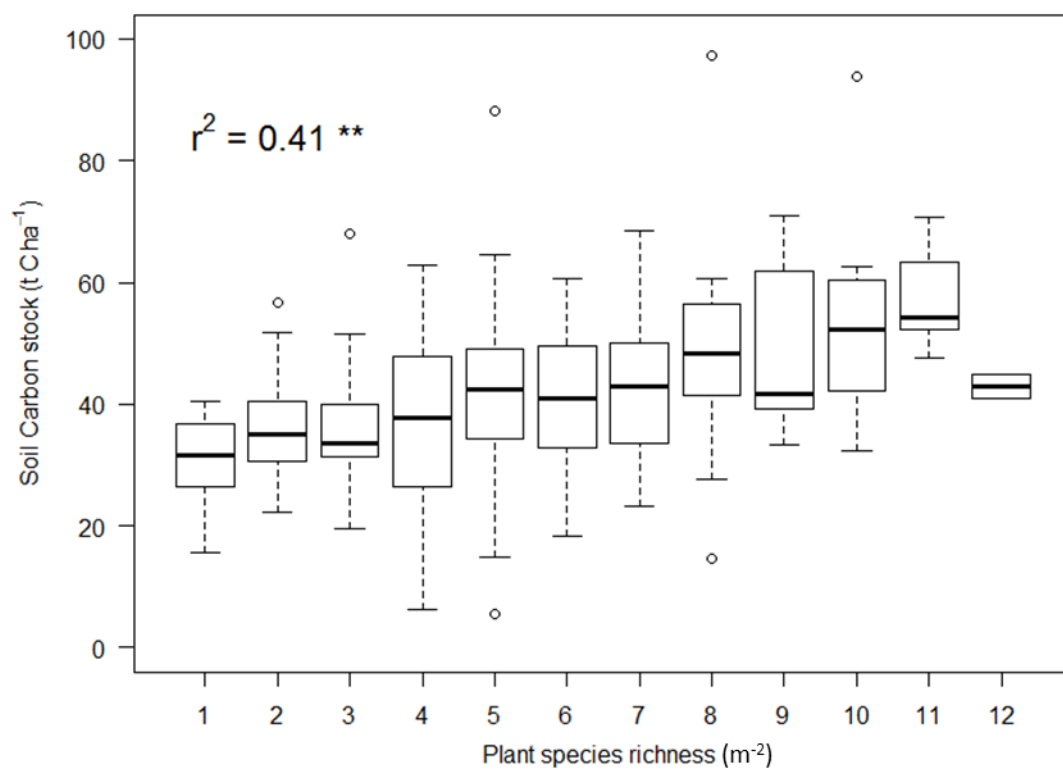
Figure S2. Results of mixed effects model with pseudo r^2 showing proportion of soil carbon stock explained by plant species richness per m^2 in 23 Welsh saltmarshes, $p < 0.01$. Thick bar = median, box = interquartile range, whiskers = full range, open circles = outliers.

Area: 10.25 ha
Carbon stock: 441 tC

Glan-Y-M
Elias

Predicted soil carbon stock (t/ha)

43

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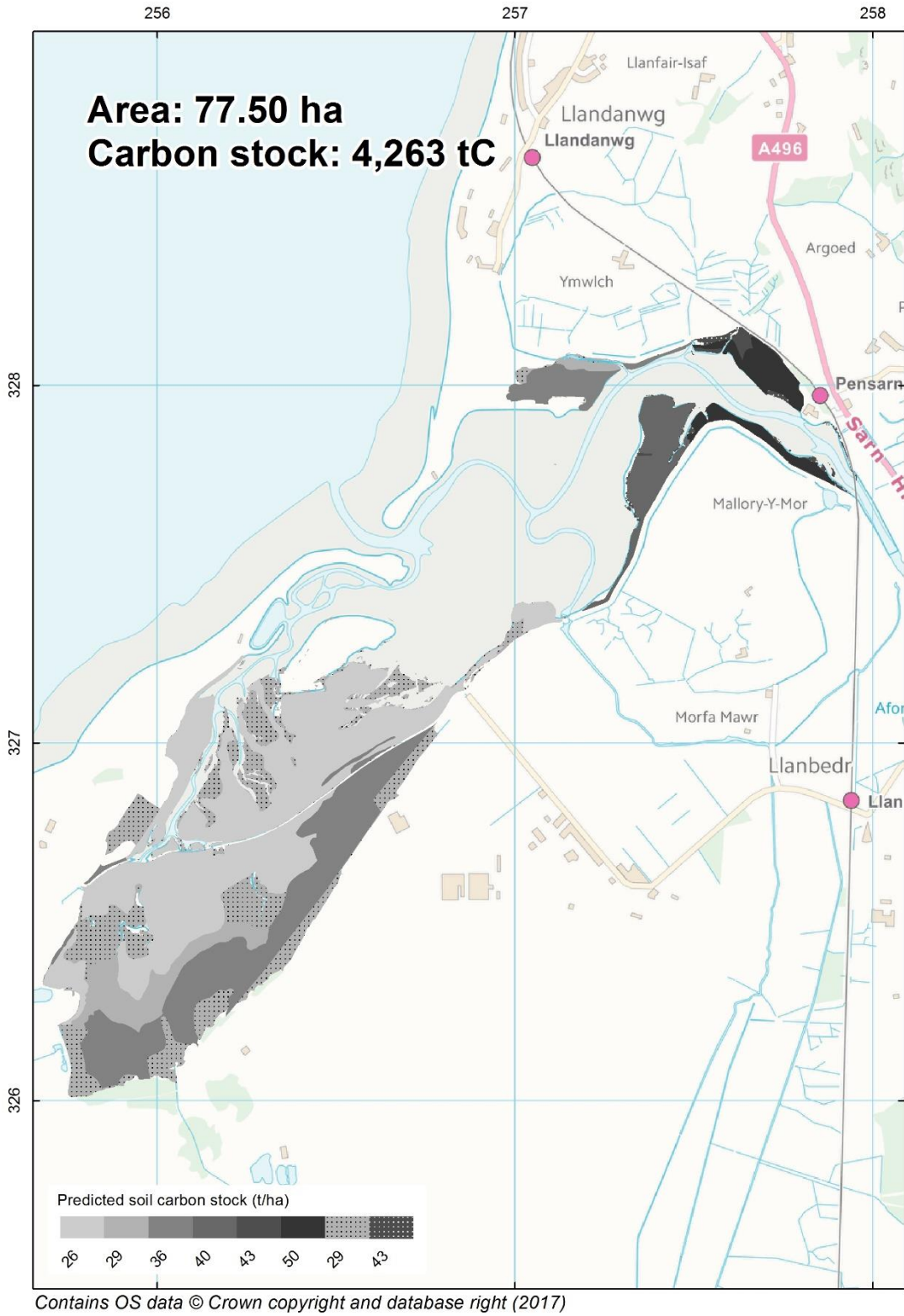
Figure S3. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Morfa Madryn saltmarsh. SOC stock based on 'simplified soil type' (Soil_model; hatched grayscale) as target NVC classes absent from NRW shapefile.
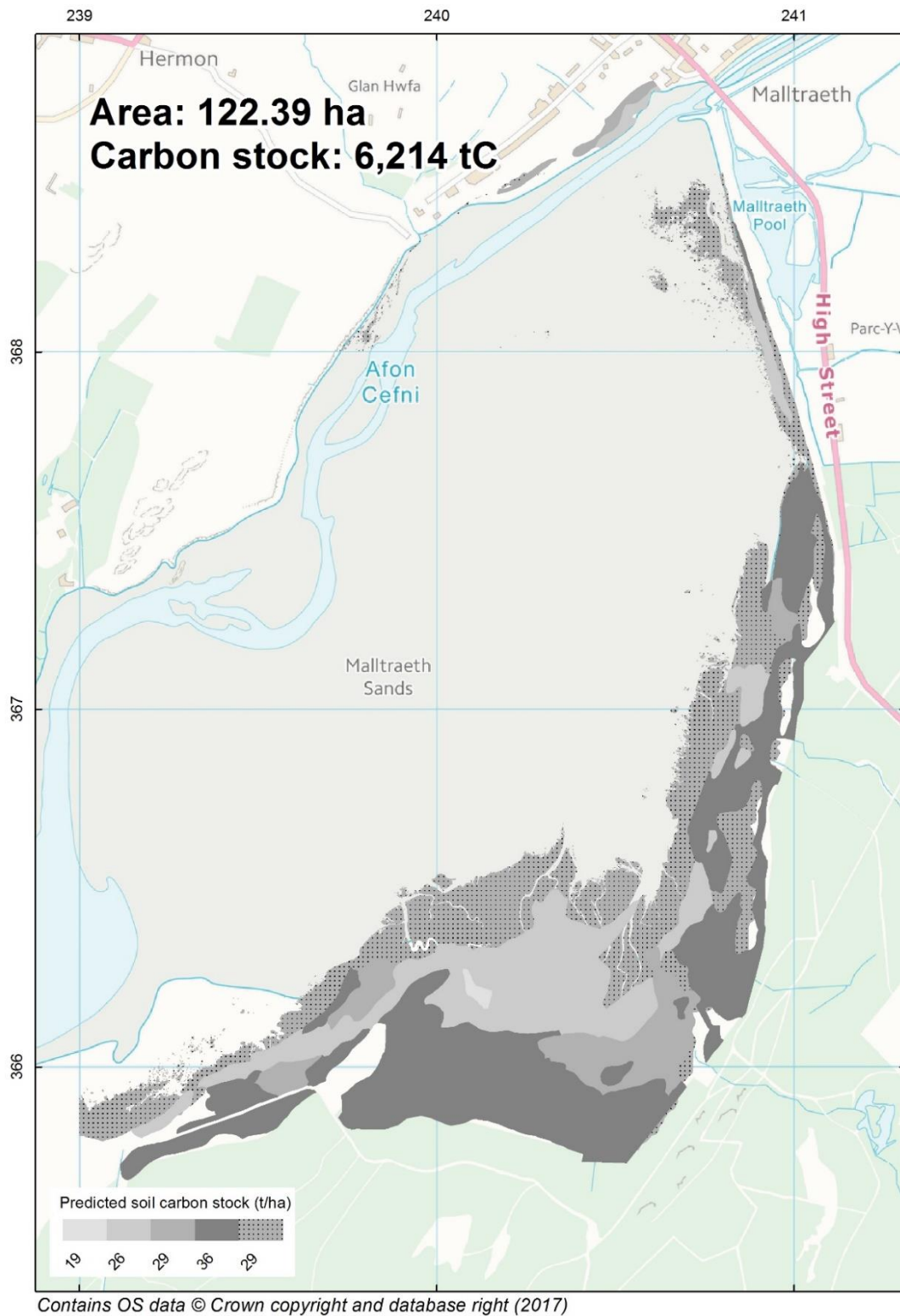
Figure S4. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Maltraeth saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.

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Figure S5. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Four Mile Bridge saltmarsh. SOC stock based on 'simplified soil type' (Soil_model; hatched grayscale) as target NVC classes absent from NRW shapefile.
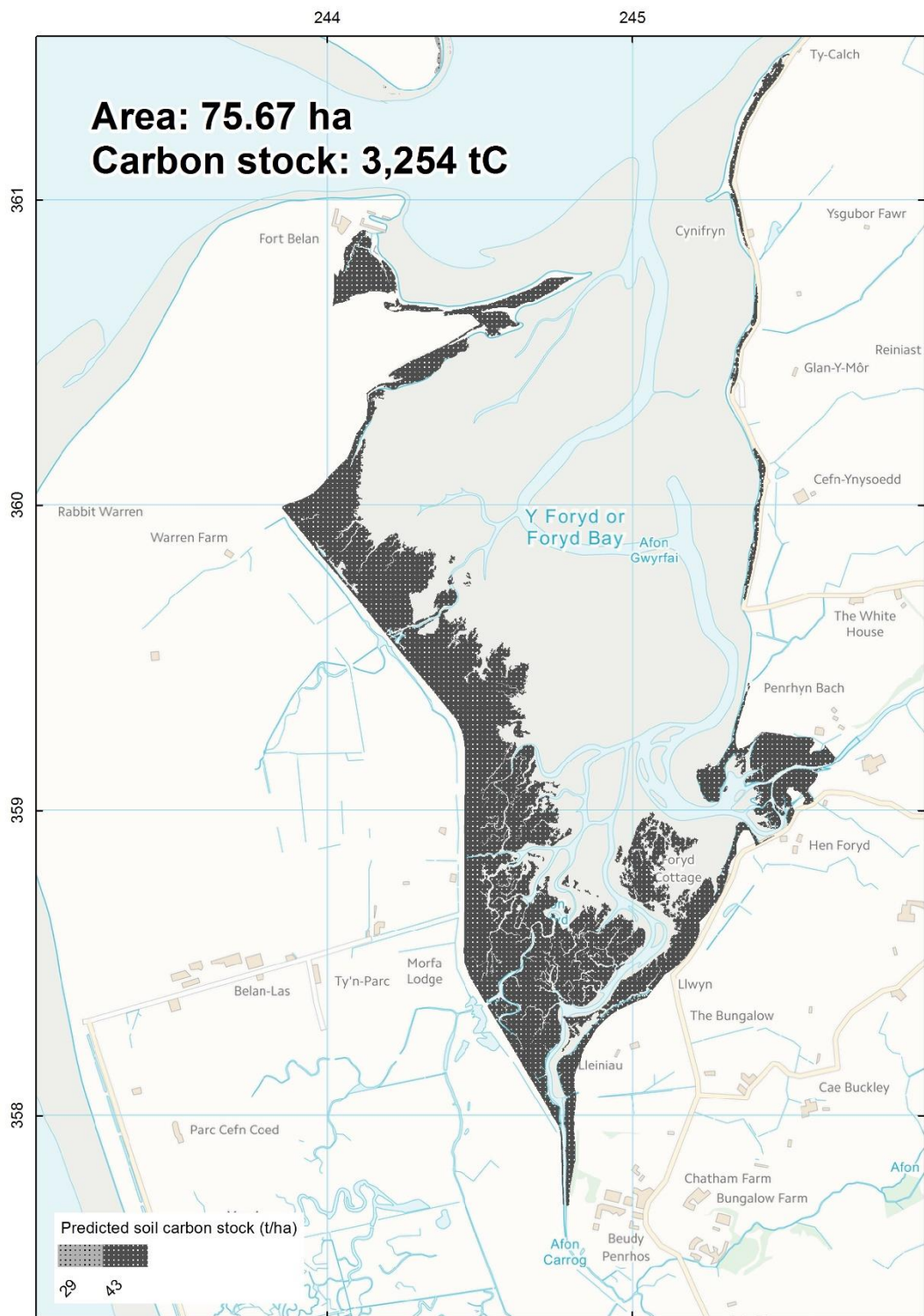
Figure S6. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Y Foryd saltmarsh. SOC stock based on 'simplified soil type' (Soil_model; hatched grayscale) as target NVC classes absent from NRW shapefile.
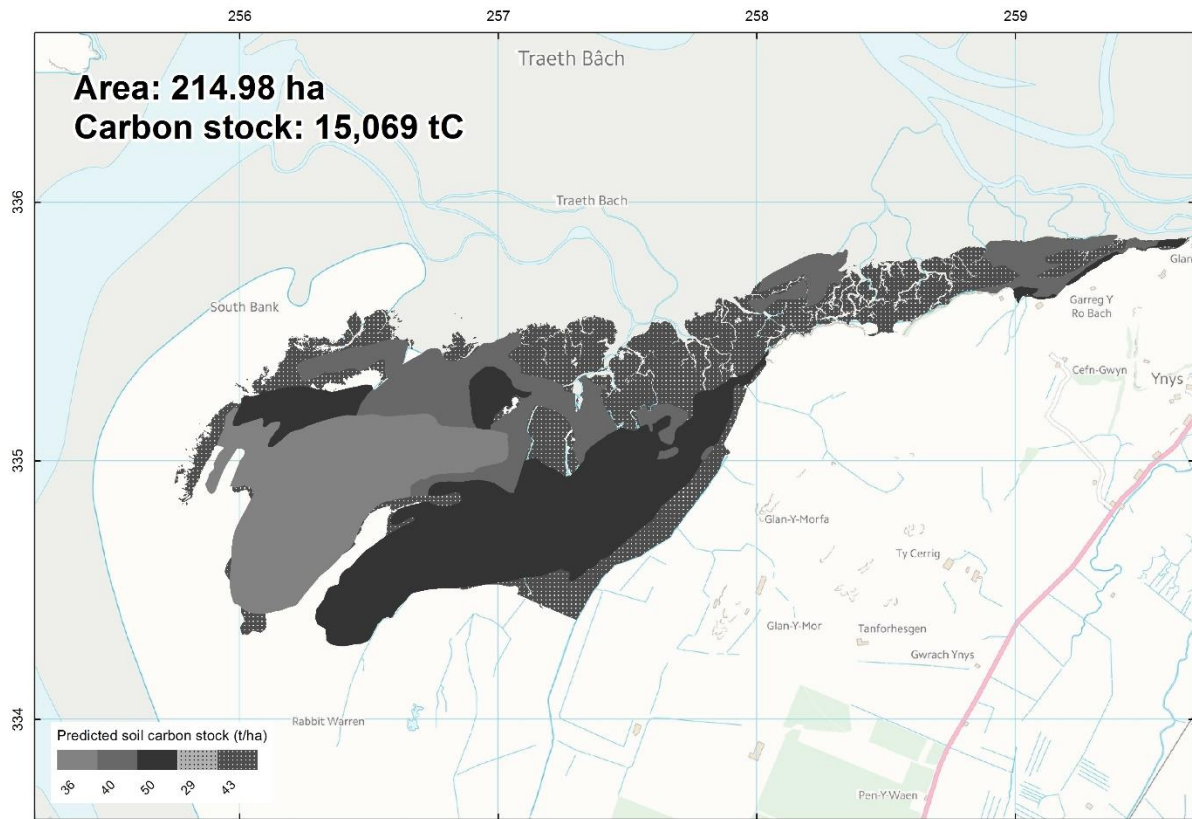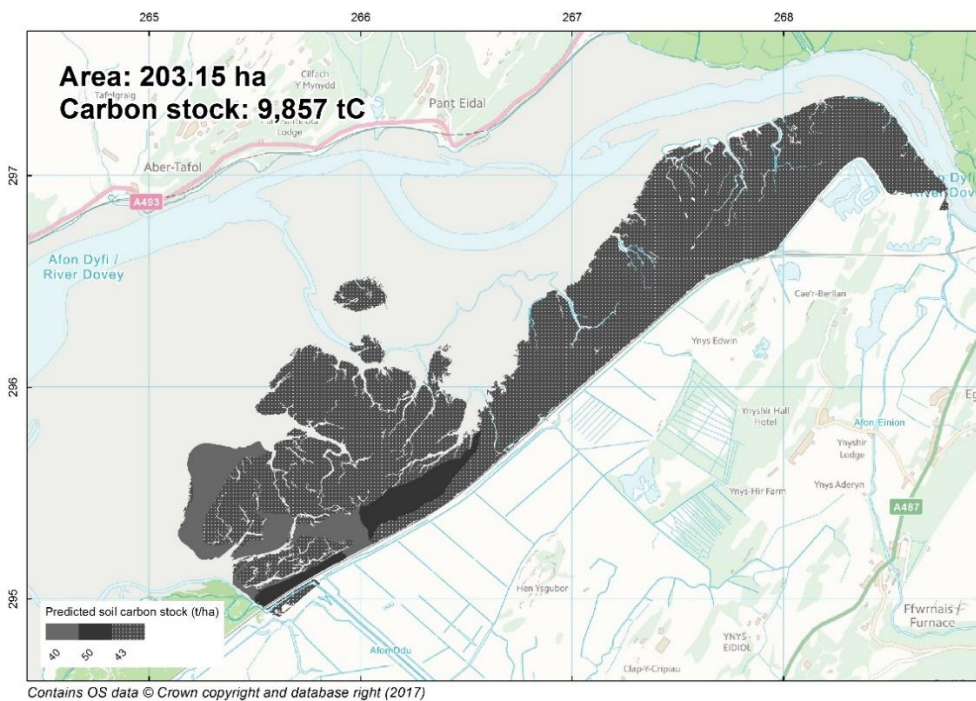
Figure S7. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Morfa Harlech saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.

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Figure S8. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Shell Island saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
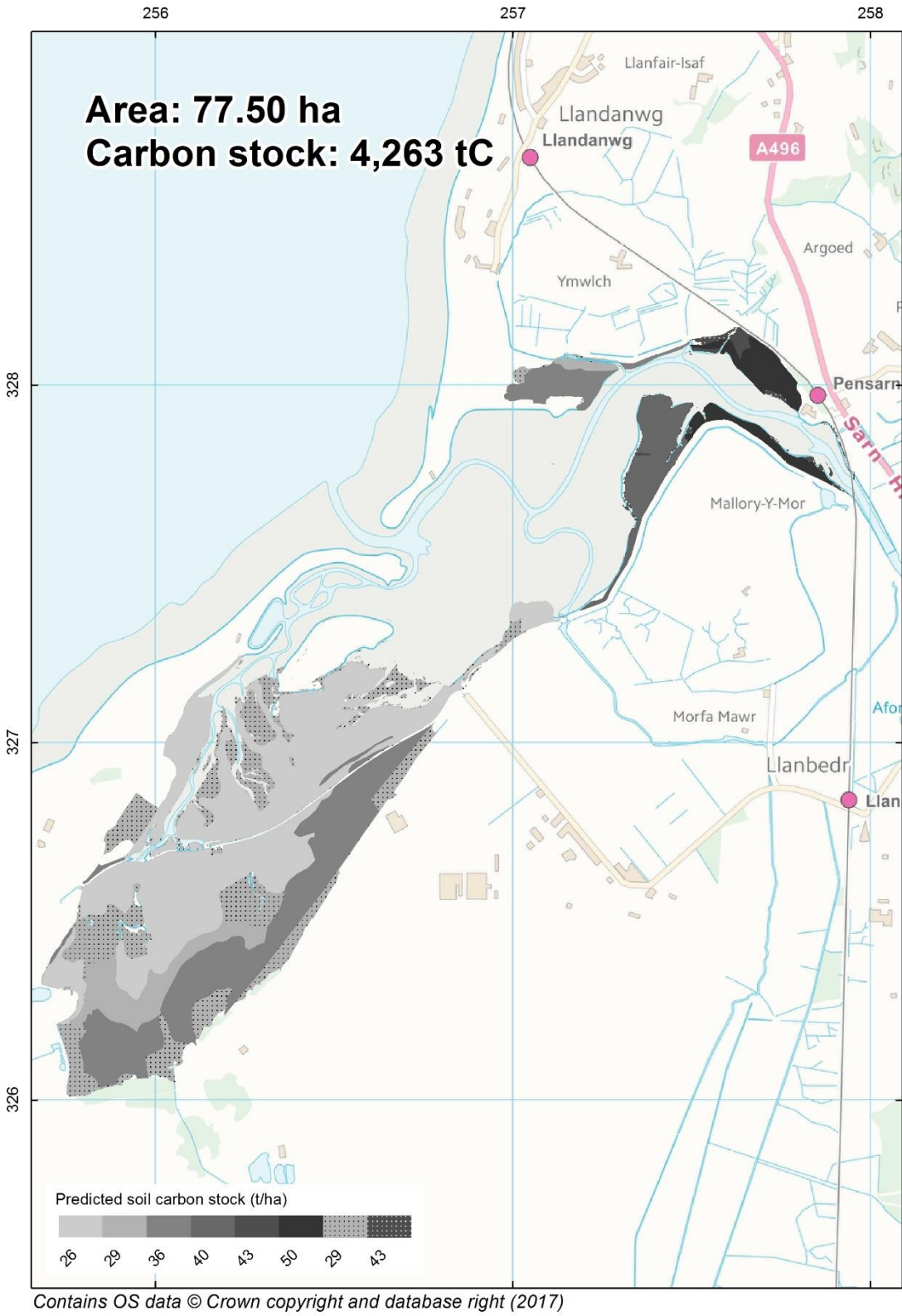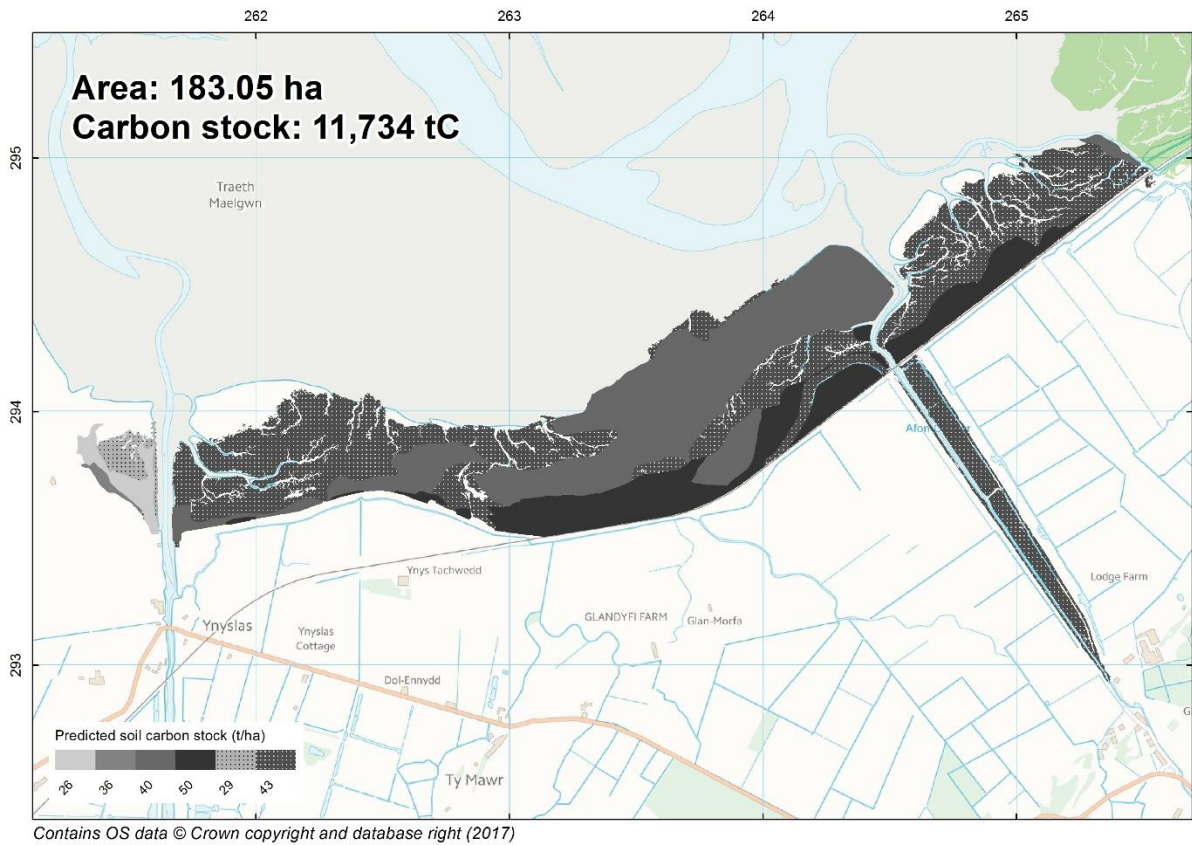
Figure S9. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Fairbourne saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
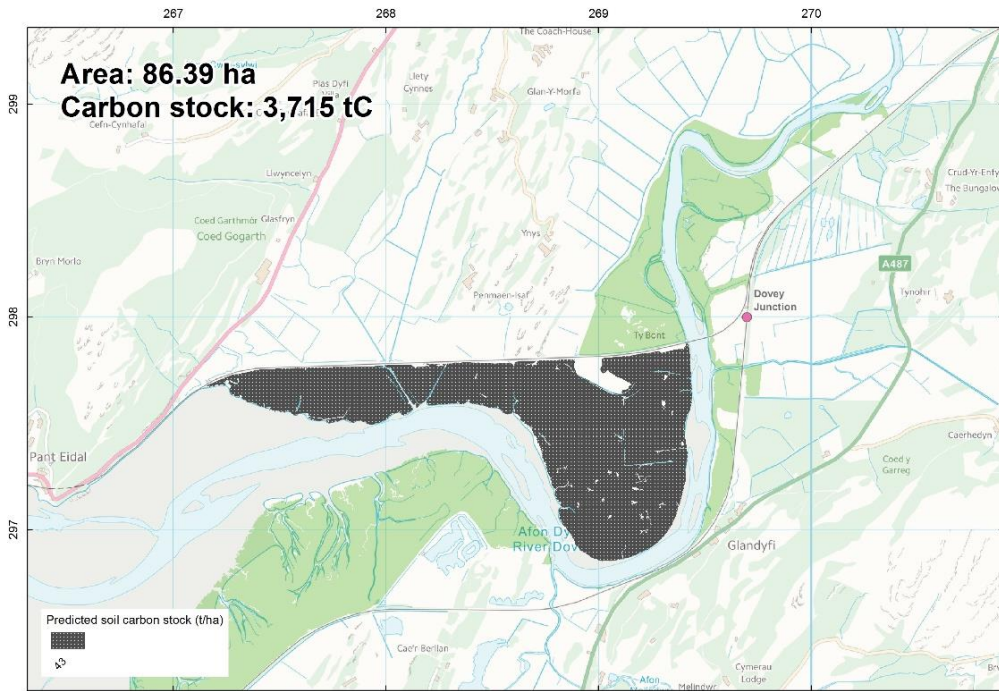
Figure S10. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Dyfi North saltmarsh. SOC stock based on 'simplified soil type' (Soil_model; hatched grayscale) as target NVC classes absent from NRW shapefile.

Figure S11. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Ynys Hir saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
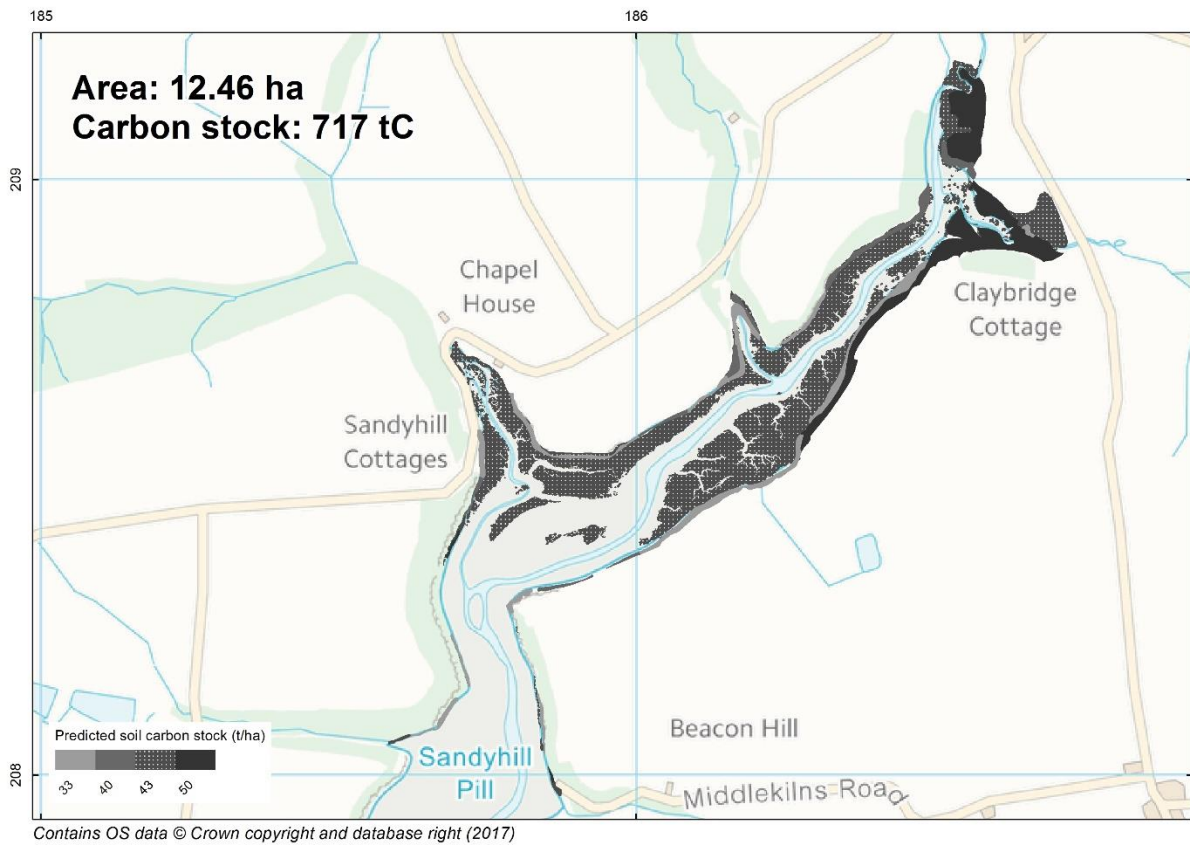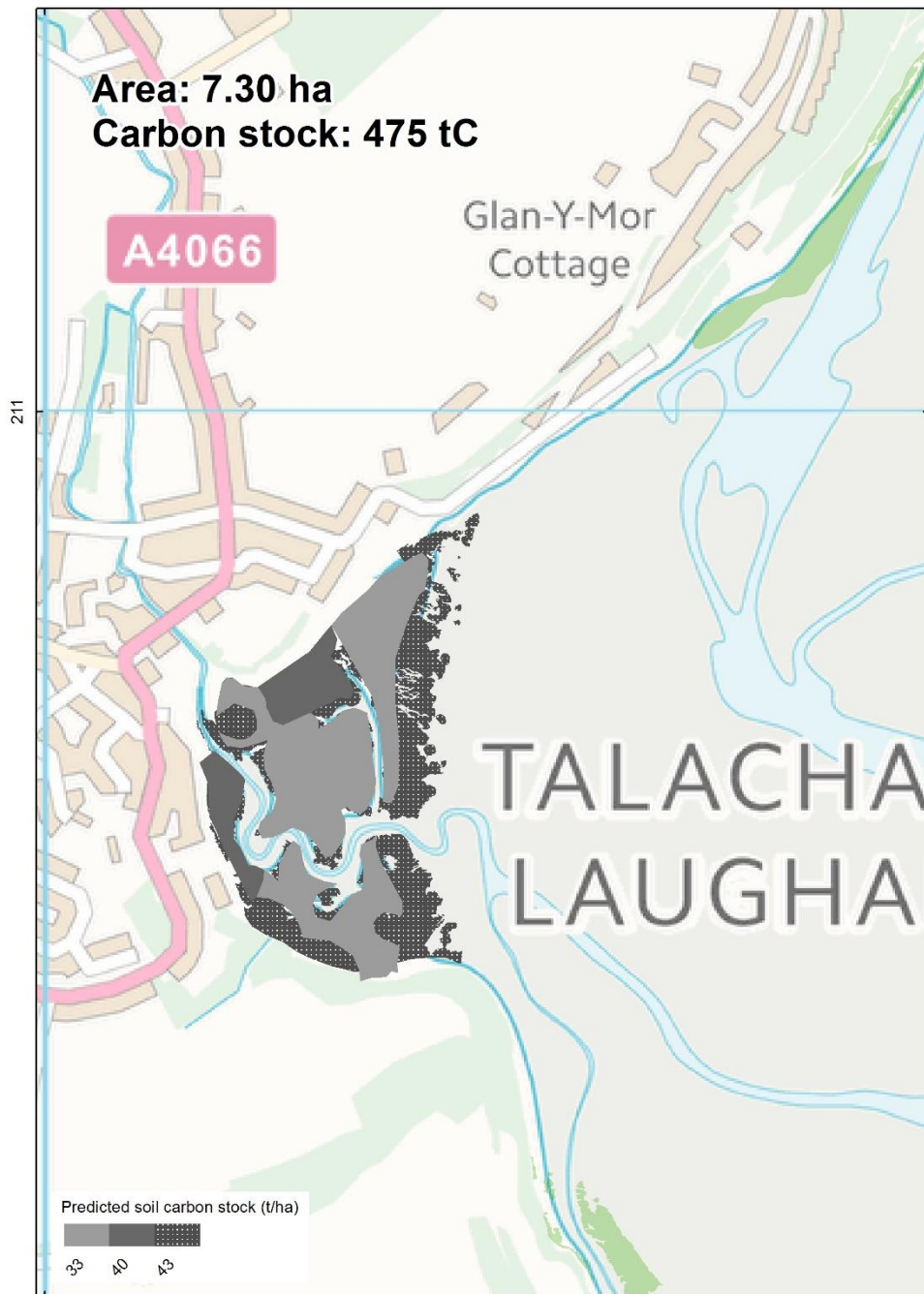
Figure S12. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Dyfi West saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.

Area: 32.51 ha
Carbon stock: 2,468 tC

Predicted soil carbon stock (t/ha)

33 40 43 50 43

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Figure S13. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for The Gann saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
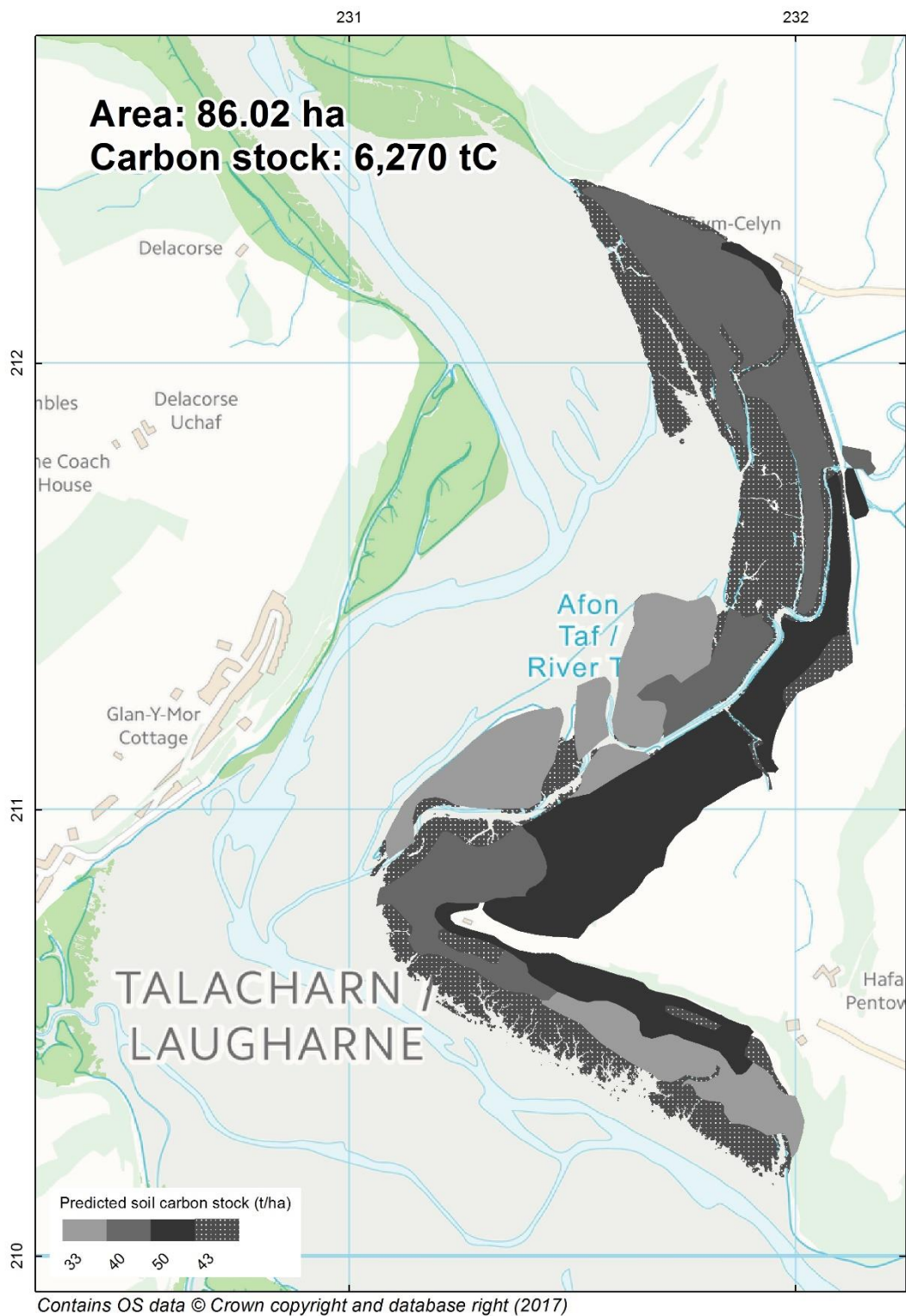
Figure S14. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Sandy Haven saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.

Area: 7.30 ha
Carbon stock: 475 tC

Predicted soil carbon stock (t/ha)

33   40   43

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Figure S15. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Laugharne Castle saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.

Area: 86.02 ha
Carbon stock: 6,270 tC

Predicted soil carbon stock (t/ha)

33 40 50 43

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Figure S16. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Black Scar saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
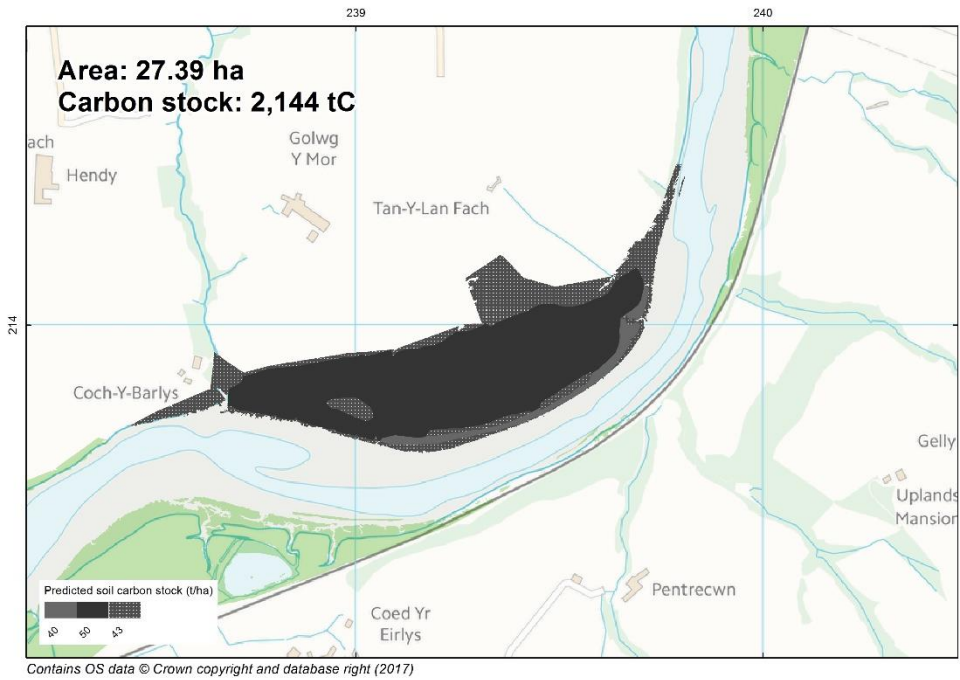
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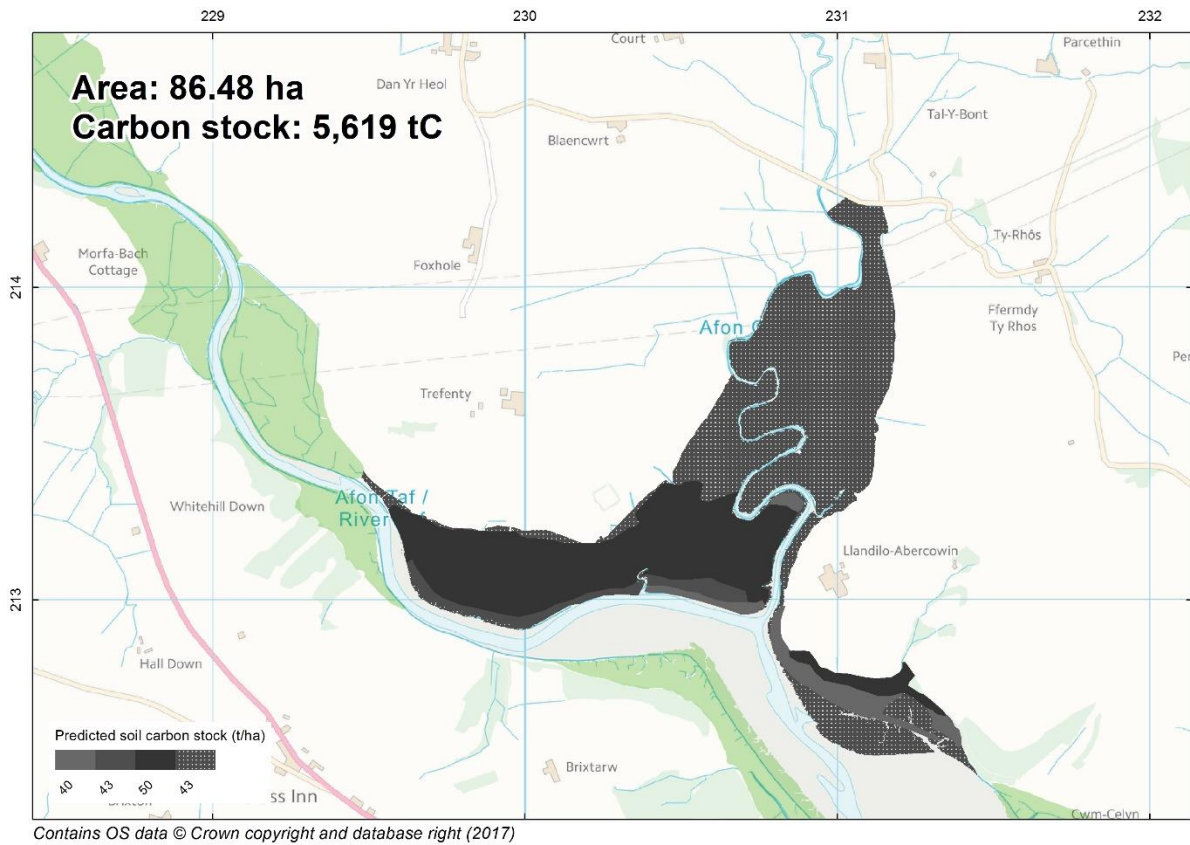
Figure S17. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Trefenty saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
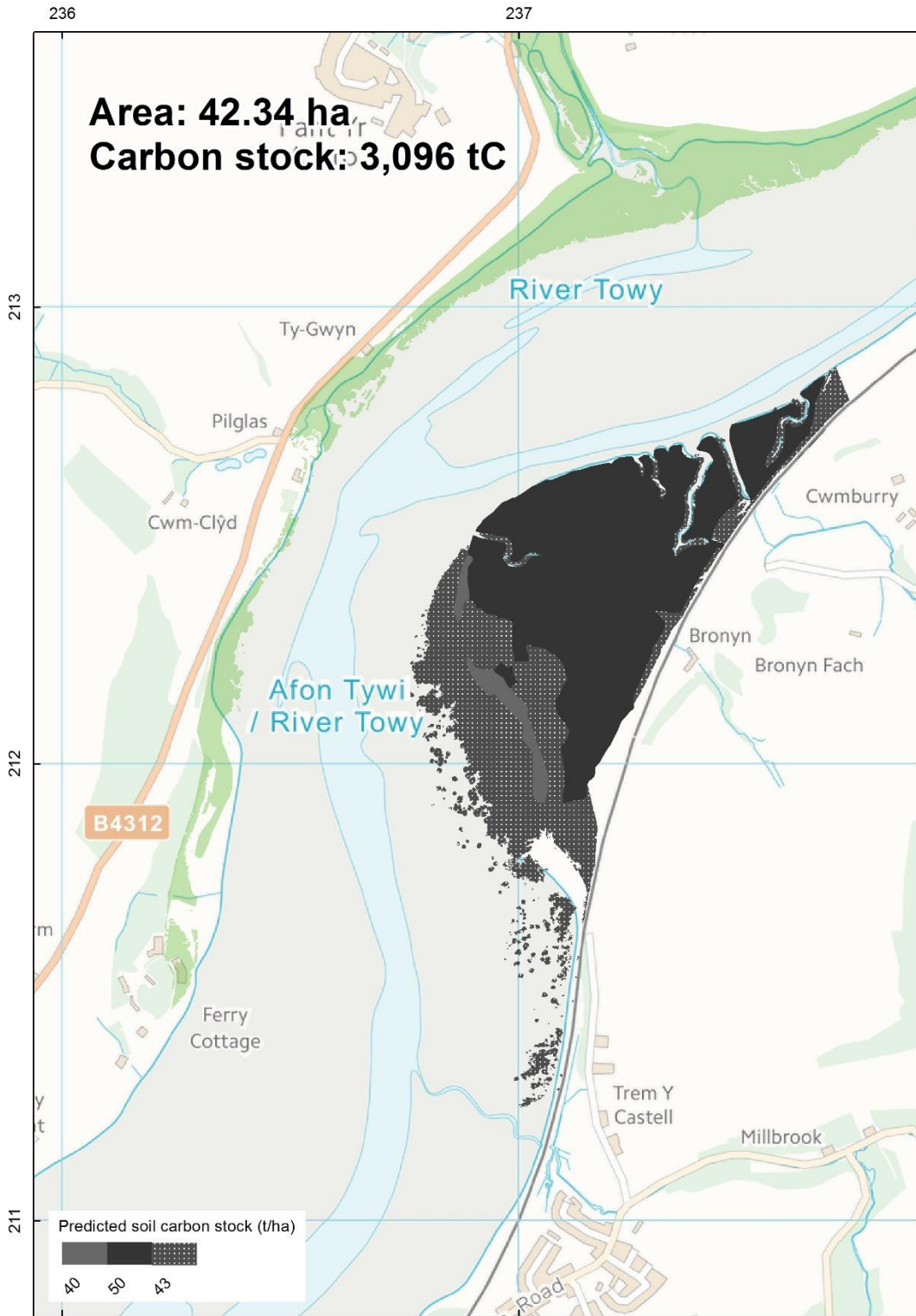
Figure. S18. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Morfa Uchaf saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
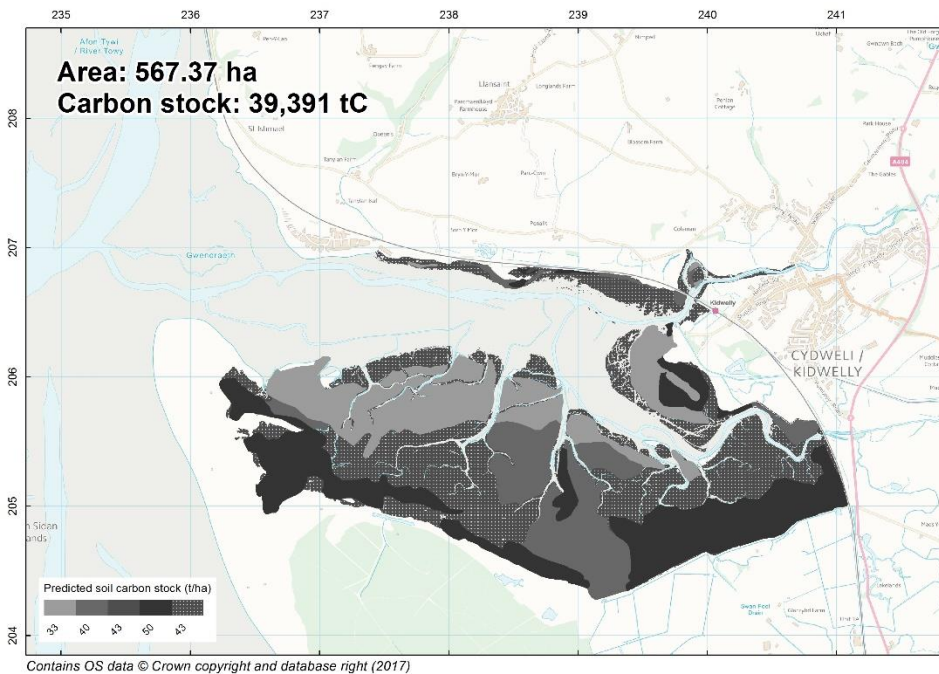
Figure S19. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Cor-y-Barlys saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
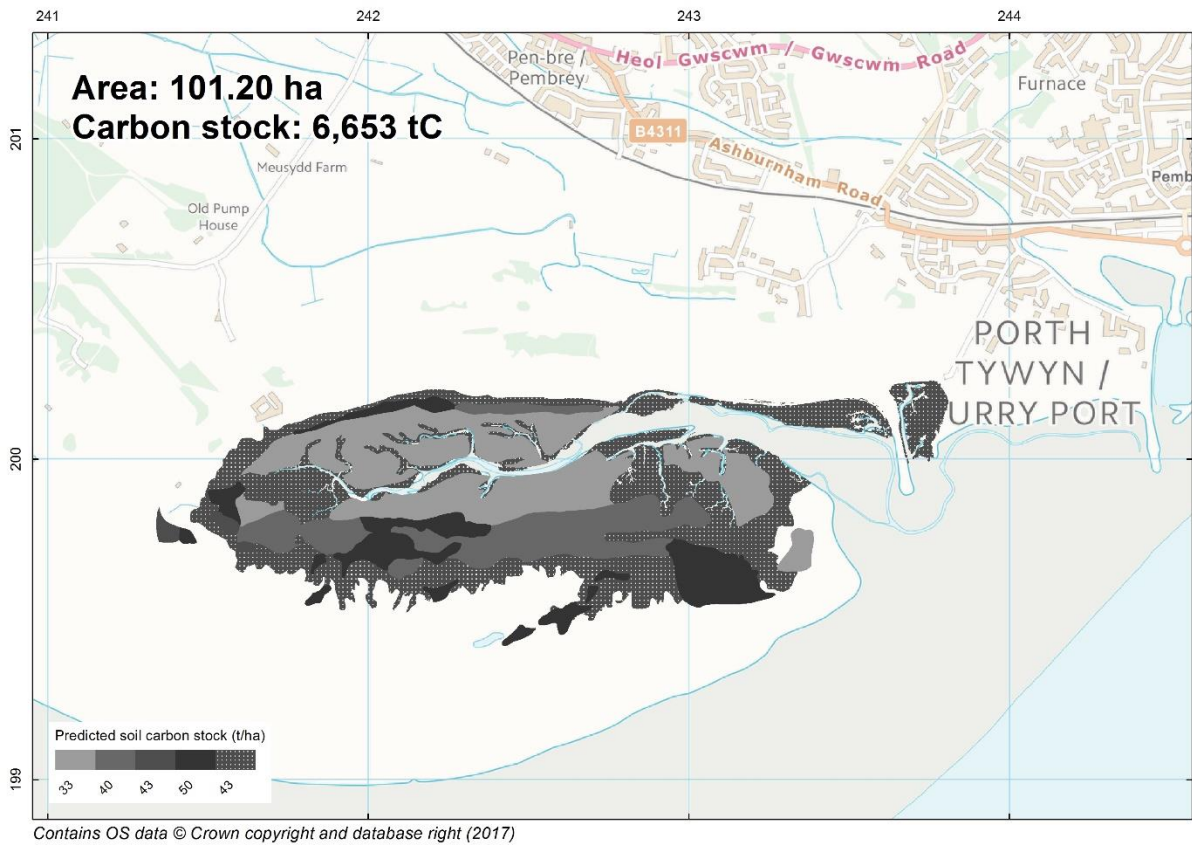

Figure S20. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Gwendraeth saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.

Area: 101.20 ha
Carbon stock: 6,653 tC

Predicted soil carbon stock (t/ha)

33 40 43 50 43

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Figure S21. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Pembrey Burrows saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
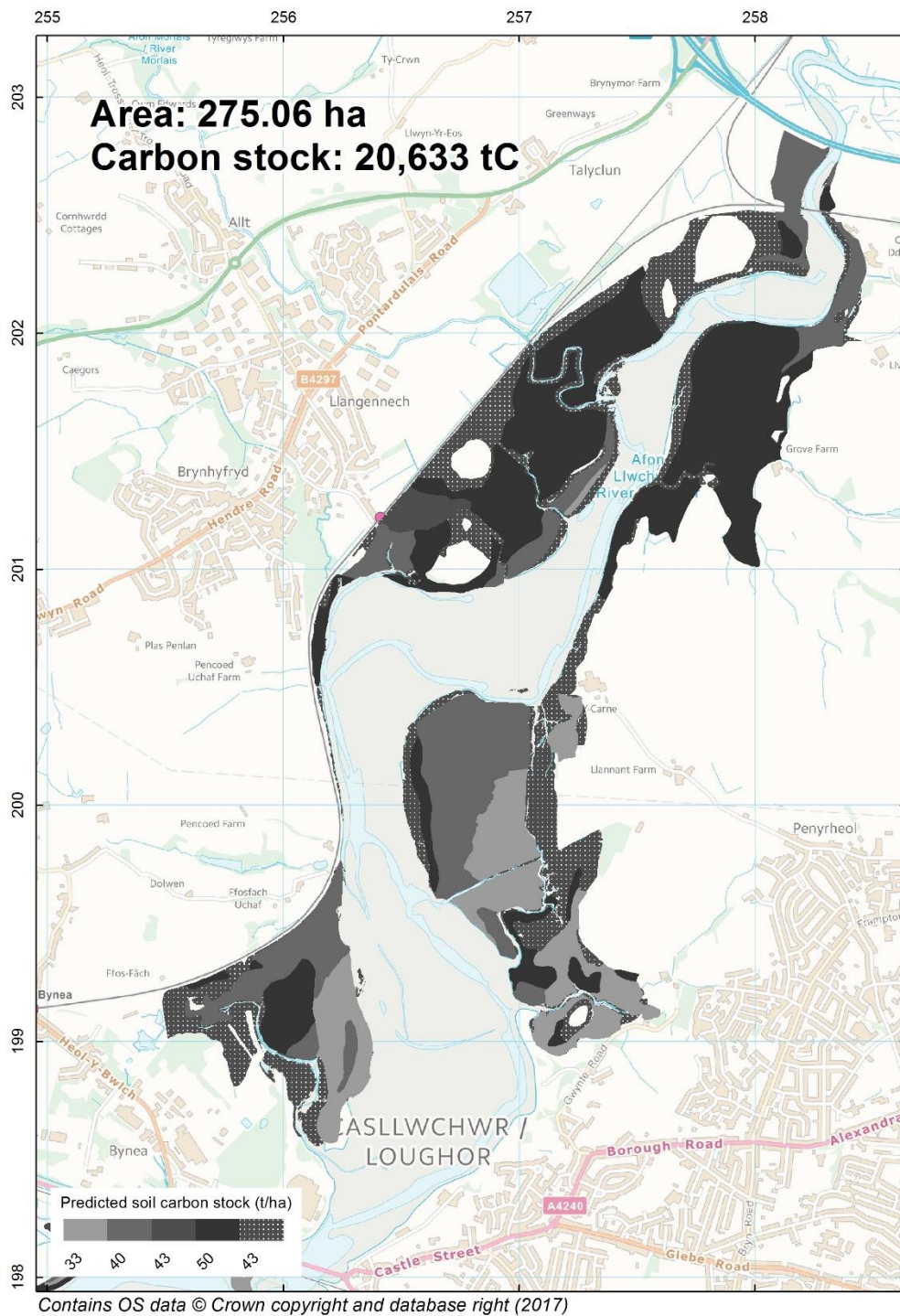
Figure S22. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Morfa Mawr saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
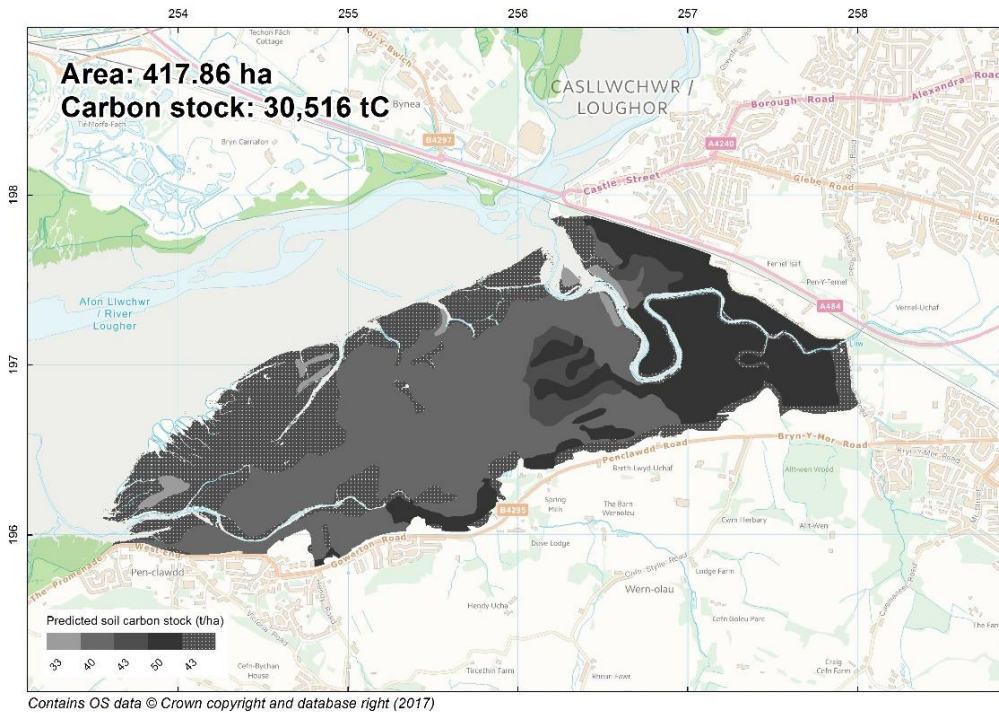
Figure S23. Predictions of SOC stock (t C ha⁻¹ for top 10 cm) for Gowerton saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
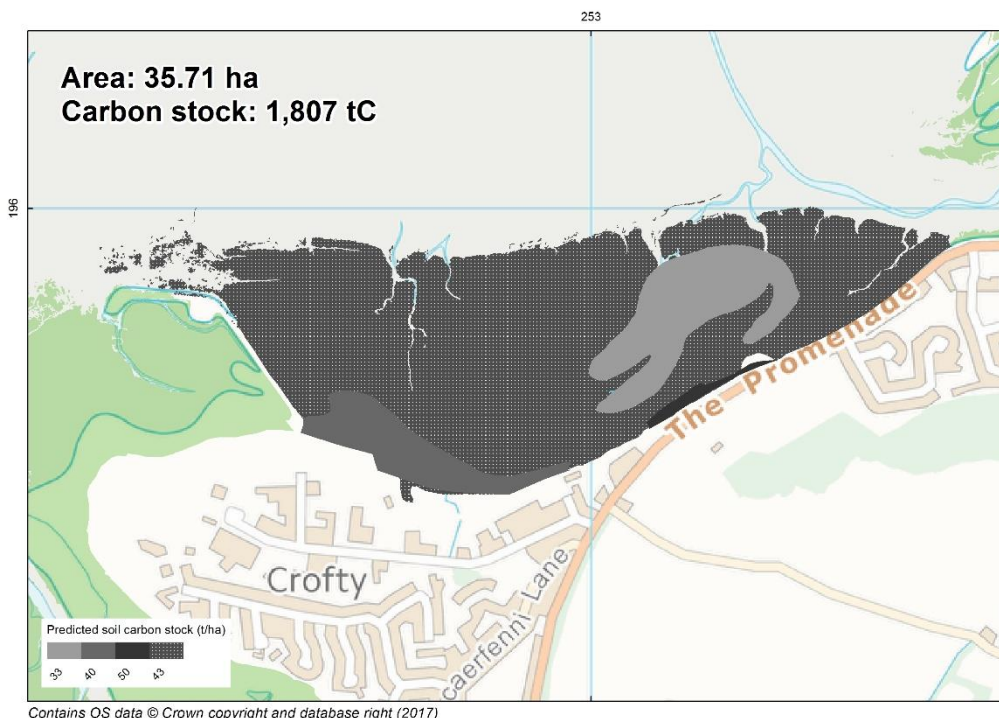

Figure S24. Predictions of SOC stock (t C ha⁻¹ for top 10 cm) for Salthouse Point saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.
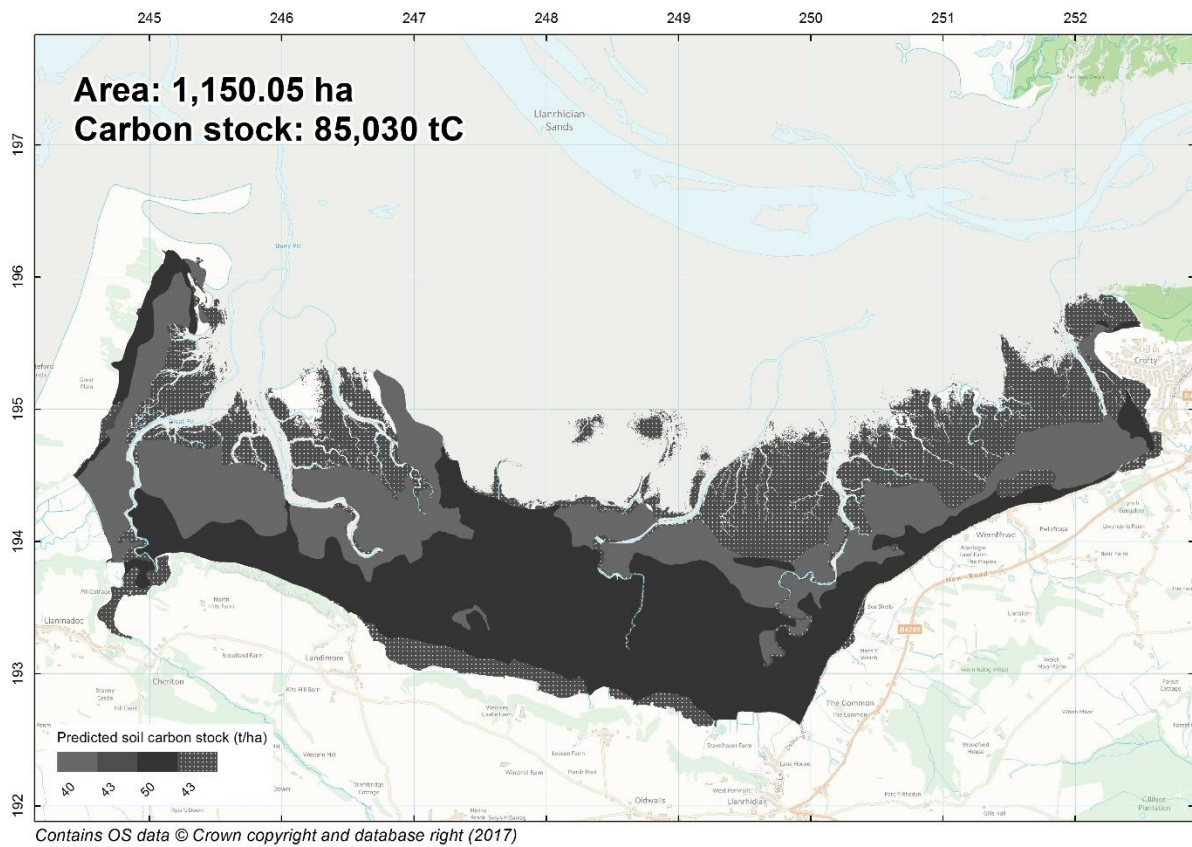
Area: 1,150.05 ha
Carbon stock: 85,030 tC

Predicted soil carbon stock (t/ha)

40   43   50   43

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Figure S25. Predictions of SOC stock (t C ha^{-1} for top 10 cm) for Landimore Marsh saltmarsh. SOC stock based on 'NVC and simplified soil type' combined (NVC_soil_model; solid grayscale) plus 'simplified soil type' (Soil_model; hatched grayscale) where predictions for NVC communities were not known.