
Consequences of climate change for conserving leafy vegetable CWR in Europe CCLEAFY

Appendices to the Activity Report

APPENDICES

Appendix 1. Overview of the lettuce genepool and the native distribution area of the crop wild relatives.	1
Appendix 2. Overview of the spinach genepool and the native distribution area of the crop wild relatives.....	2
Appendix 3. Overview of the endive/chicory genepool and the native distribution area of the crop wild relatives.	3
Appendix 4. Overview of the annual wall rocket genepool and the native distribution area of the crop wild relatives.	4
Appendix 5. Overview of the artichoke genepool and the native distribution area of the crop wild relatives. ...	5
Appendix 6. Overview of the asparagus genepool and the native distribution area of the crop wild relatives. .	6
Appendix 7. Overview of the garden cress genepool and the native distribution area of the crop wild relatives.	7
Appendix 8. Overview of the perennial wall rocket genepool and the native distribution area of the crop wild relatives.	8
Appendix 9. Overview of the Peruvian ginseng/maca genepool and the native distribution area of the crop wild relatives.	9
Appendix 10. Overview of the rhubarb genepool and the native distribution area of the crop wild relatives...	10
Appendix 11. Overview of the rocket salad genepool and the native distribution area of the crop wild relatives.	11
Appendix 12. Taxon group 1 species of eight leafy vegetables crops and their native distribution areas.....	12
Appendix 13. Predicted distribution of <i>Lactuca serriola</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	13
Appendix 14. Predicted distribution of <i>Lactuca saligna</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	14
Appendix 15. Predicted distribution of <i>Cichorium pumilum</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	15
Appendix 16. Predicted distribution of <i>Cichorium intybus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	16
Appendix 17. Predicted distribution of <i>Cichorium spinosum</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	17
Appendix 18. Predicted distribution of <i>Diplotaxis muralis</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	18
Appendix 19. Predicted distribution of <i>Cynara cardunculus</i> ssp. <i>cardunculus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	19
Appendix 20. Predicted distribution of <i>Cynara cardunculus</i> ssp. <i>flavescens</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	20
Appendix 21. Predicted distribution of <i>Cynara algarbiensis</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	21
Appendix 22. Predicted distribution of <i>Cynara baetica</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	22
Appendix 23. Predicted distribution of <i>Cynara humilis</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	23
Appendix 24. Predicted distribution of <i>Cynara tournefortii</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	24

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 25. Predicted distribution of <i>Asparagus officinalis</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	25
Appendix 26. Predicted distribution of <i>Asparagus aphyllus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	26
Appendix 27. Predicted distribution of <i>Asparagus maritimus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	27
Appendix 28. Predicted distribution of <i>Asparagus prostratus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	28
Appendix 29. Predicted distribution of <i>Asparagus tenuifolius</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	29
Appendix 30. Predicted distribution of <i>Valerianella locusta</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	30
Appendix 31. Predicted distribution of <i>Taraxacum officinale</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	31
Appendix 32. Predicted distribution of <i>Atriplex hortensis</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	32
Appendix 33. Predicted distribution of <i>Lepidium spinosum</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	33
Appendix 34. Predicted distribution of <i>Glebionis coronaria</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	34
Appendix 35. Predicted distribution of <i>Blitum bonus-henricus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	35
Appendix 36. Predicted distribution of <i>Diplotaxis tenuifolia</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.....	36
Appendix 37. Predicted distribution of <i>Brassica nigra</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	37
Appendix 38. Predicted distribution of <i>Portulaca oleracea</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	38
Appendix 39. Predicted distribution of <i>Eruca vesicaria</i> ssp. <i>sativa</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	39
Appendix 40. Predicted distribution of <i>Rumex acetosa</i> ssp. <i>acetosa</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	40
Appendix 41. Predicted distribution of <i>Rumex acetosa</i> ssp. <i>hibernicus</i> for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.	41
Appendix 42. Percentage range change predicted with species distribution modelling for the selected crop wild relatives of leafy vegetables in the European region for the year 2070 according to climate change scenario RCP 2.6 and RCP 8.5. Results for the European region assuming unrestricted migration are compared to those of a model with no migration and to those for the Natura 2000 network of European protected sites.....	42
Appendix 43. Number of accessions (wild, weedy or landrace) of the selected crop wild relatives of leafy vegetables, originating from countries within the European region and included in the EURISCO database. .	43

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 1. Overview of the lettuce genepool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa	N-America
Primary genepool				
<i>Lactuca sativa</i> L.				
<i>Lactuca aculeata</i> Boiss. & Kotschy		ARM; IRN; IRQ; ISR; JOR; SYR; TUR		
<i>Lactuca altaica</i> Fisch. & C.A. Mey.	RUS	CHN; KAZ; KGZ; TJK; TKM; RUS		
<i>Lactuca azerbaijanica</i> Rech f.		IRN		
<i>Lactuca dregeana</i> DC.			ZAF	
<i>Lactuca georgica</i> Grossh.		ARM; AZE; GEO; RUS; TKM; TUR		
<i>Lactuca scarioloides</i> Boiss.		AFG; IRN; IRQ; TUR		
<i>Lactuca serriola</i> L.	ALB; AUT; BEL; BGR; BIH; BLR; CHE; CZE; DEN; DEU; ESP; FRA; GBR; GRC; HRV; HUN; ITA; MDA; MKD; MNE; NLD; PRT; ROU; RUS; SRB; SVK; SVN; UKR	AFG; ARM; AZE; CHN; CYP; EGY; GEO; IND; IRN; IRQ; ISR; JOR; KAZ; KGZ; LBN; RUS; SAU; SYR; TJK; TKM; TUR; UZB	ALG; EGY; ETH; MAR; TUN	
Secondary genepool				
<i>Lactuca saligna</i> L.	ALB; AUT; BEL; BGR; BIH; CHE; HRV; CZE; DEU; ESP; FRA; GBR; GRC; HUN; ITA; MDA; MKD; MNE; NLD; PRT; ROU; RUS; SRB; SVK; SVN; UKR	AZE; CYP; EGY; GEO; IRQ; ISR; JOR; LBN; RUS; SAU; SYR; TUR	ALG; EGY; MAR; TUN	
Tertiary genepool				
<i>Lactuca acanthifolia</i> (Willd.) Boiss.	GRC	TUR		
<i>Lactuca alpestris</i> (Gand.) Rech. f.	GRC			
<i>Lactuca aurea</i> (Vis. & Pancic) Stebbins	BGR; BIH; GRC; HRV; MKD; MNE; ROU; SRB	TUR		
<i>Lactuca longidentata</i> Moris ex DC.	ITA			
<i>Lactuca orientalis</i> (Boiss.) Boiss.		AFG; ARM; AZE; IND; IRN; IRQ; ISR; JOR; KGZ; LBN; PAK; SAU; SYR; TJK; TKM; UZB	EGY	
<i>Lactuca quercina</i> L.	ALB; AUT; BGR; BIH; BLR; CZE; DEU; FRA; GRC; HRV; HUN; ITA; MDA; MKD; MNE; ROU; RUS; SRB; SVK; SVN; SWE; UKR	ARM; AZE; GEO; IND; RUS; TUR		
<i>Lactuca quercina</i> L. ssp. <i>quercina</i> L.	ALB; AUT; BGR; BIH; BLR; CZE; DEU; FRA; GRC; HRV; HUN; ITA; MDA; MKD; MNE; ROU; RUS; SRB; SVK; SVN; SWE; UKR	ARM; AZE; GEO; IND; RUS; TUR		
<i>Lactuca quercina</i> L. ssp. <i>wilhelmsiana</i> (Fisch. & C.A. Mey. ex DC) Ferakova	ALB; BGR; MNE; ROU; UKR	ARM; AZE; GEO; IRN		
<i>Lactuca sibirica</i> (L.) Benth. ex Maxim.	EST; FIN; NOR; RUS; SWE; UKR	CHN; JAP; MNG; RUS		
<i>Lactuca tatarica</i> (L.) C.A. Mey.	BGR; BLR; LTU; LVA; NOR; POL; ROU; RUS; SVK; SWE; UKR	AFG; ARM; AZE; CHN; GEO; IND; IRN; KAZ; KGZ; MNG; PAK; RUS; TJK; TKM; TUR; UZB		CAN; USA
<i>Lactuca tatarica</i> (L.) C.A. Mey. ssp. <i>pulchella</i> (Pursh) Stebbins				CAN; USA
<i>Lactuca tatarica</i> (L.) C.A. Mey. ssp. <i>tatarica</i> (L.) C.A. Mey.	BGR; BLR; MDA; ROU; RUS; UKR	AFG; ARM; AZE; CHN; GEO; IND; IRN; KAZ; KGZ; MNG; PAK; RUS; TJK; TKM; TUR; UZB		
<i>Lactuca viminea</i> (L.) J. Presl & C. Presl	ALB; AUT; BGR; BIH; CHE; CZE; DEU; ESP; FRA; GRC; HRV; HUN; ITA; MDA; MKD; MNE; PRT; ROU; RUS; SRB; SVK; SVN; UKR	ARM; AZE; CYP; GEO; IRN; IRQ; ISR; LBN; RUS; SYR; TKM; TUR	DZA; MAR; TUN	
<i>Lactuca viminea</i> (L.) J. Presl & C. Presl ssp. <i>chondrilliflora</i> (Boreau) St.-Lag.	ESP; FRA; HRV; ITA; PRT		DZA; MAR; TUN	
<i>Lactuca viminea</i> (L.) J. Presl & C. Presl ssp. <i>ramosissima</i> (All.) Arcang.	ALB; ESP; FRA; GRC; HRV; ITA		MAR	
<i>Lactuca viminea</i> (L.) J. Presl & C. Presl ssp. <i>viminea</i> (L.) J. Presl & C. Presl	ALB; AUT; BGR; BIH; CHE; CZE; DEU; ESP; FRA; GRC; HRV; HUN; ITA; MDA; MKD; MNE; PRT; ROU; RUS; SRB; SVK; SVN; UKR	ARM; AZE; CYP; GEO; IRN; IRQ; ISR; LBN; RUS; SYR; TKM; TUR	DZA; MAR; TUN	
<i>Lactuca virosa</i> L.	AUT; BEL; CHE; DEU; ESP; FRA; GRC; ITA; MKD; PRT; ROU; SVN		DZA; MAR	
<i>Lactuca virosa</i> L. ssp. <i>cornigera</i> (Pau & Font Quer) Emb. & Maire			MAR	
<i>Lactuca virosa</i> L. ssp. <i>livida</i> (Boiss. & Reut.) Ladero & A. Velasco	ESP			
<i>Lactuca virosa</i> L. ssp. <i>virosa</i> L.	AUT; BEL; CHE; DEU; ESP; FRA; GRC; ITA; MKD; NLD; PRT; ROU; SVN		DZA; MAR	
<i>Lactuca watsoniana</i> Trel.	PRT			
<i>Lactuca winkleri</i> Kirp.		TJK		

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 2. Overview of the spinach gene pool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa	N-America	Australasia
Primary gene pool					
<i>Spinacia oleracea</i> L.					
<i>Spinacia tetrandra</i> Steven ex M. Bieb.		ARM; AZE; IRN; IRQ; JOR; SYR; TUR			
<i>Spinacia turkestanica</i> Iljin		IRN; KAZ; TKM			
Tertiary gene pool					
<i>Blitum asiaticum</i> (Fisch. & C.A. Mey.) S. Fuentes et al.		RUS			
<i>Blitum atriplicinum</i> F. Muell.					AUS
<i>Blitum bonus-henricus</i> (L.) Rchb.	ALB; AUT; BGR; BIH; BLR; CHE; CZE; DEU; ESP; EST; FRA; GRC; HRV; HUN; ITA; LTU; LVA; MKD; MNE; NOR; POL; ROU; RUS; SRB; SVK; SVN; SWE; UKR				
<i>Blitum californicum</i> S. Watson				CAN; MEX; USA	
<i>Blitum capitatum</i> L.				CAN; USA	
<i>Blitum hastatum</i> Rydb.				USA	
<i>Blitum korshinsky</i> Litv.		TJK			
<i>Blitum litwinowii</i> (Paulsen) S. Fuentes et al.		AFG; TJK			
<i>Blitum nuttallianum</i> Schult.				CAN; MEX; USA	
<i>Blitum petiolare</i> Link	ESP; PRT		DZA; MAR; TUN		
<i>Blitum spathulatum</i> (A. Gray) S. Fuentes et al.				MEX; USA	
<i>Blitum virgatum</i> L.	ALB; AUT; BGR; CHE; ESP; FRA; GRC; ITA; MDA; MKD; MNE; ROU; SRB; UKR	AFG; ARM; AZE; CYP; GEO; IRN; IRQ; LBN; PAK; RUS; TUR			

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 3. Overview of the endive/chicory genepool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary genepool			
<i>Cichorium endivia</i> L.			
<i>Cichorium endivia</i> L. ssp. <i>endivia</i>			
<i>Cichorium endivia</i> L. ssp. <i>pumilum</i> (Jacq.) Cout.	ALB; BGR; ESP; FRA; GRC; HRV; ITA; MNE; PRT	ARM; AZE; CYP; IRN; IRQ; ISR; JOR; LBN; SYR; TUR	EGY; LBY; MAR; TUN
<i>Cichorium calvum</i> Sch. Bip.		IRQ; ISR; PAK	EGY
Secondary genepool			
<i>Cichorium intybus</i> L.	ALB; AUT; BEL; BGR; BIH; CHE; CZE; DEN; DEU; ESP; EST; FRA; GBR; GRC; HRV; HUN; ITA; LTU; LVA; MKD; MNE; NLD; POL; ROU; SRB; SVK; SVN; SWE; UKR	AFG; ARM; AZE; CYP; GEO; IND; IRN; IRQ; JOR; KAZ; KGZ; LBN; PAK; RUS; SYR; TJK; TKM; TUR; UZB	TUN
<i>Cichorium intybus</i> L. var. <i>intybus</i>			
<i>Cichorium intybus</i> L. var. <i>foliosum</i> Hegi			
<i>Cichorium intybus</i> L. var. <i>sativum</i> (Bisch.) Janch.			
<i>Cichorium spinosum</i> Jacq.	ESP; GRC; ITA; MLT	CYP; TUR	LBY
Tertiary genepool			
<i>Cichorium bottae</i> De Flers		SAU; YEM	

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 4. Overview of the annual wall rocket gene pool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary gene pool			
<i>Diplotaxis muralis</i> (L.) DC.	ALB; AUT; BEL; BGR; BIH; CHE; CZE; DEU; ESP; FRA; GRC; HRV; HUN; ITA; MKD; MLT; MNE; NLD; POL; PRT; ROU; RUS; SRB; SVK; SVN; UKR	GEO; RUS; TUR	DZA; LBY; MAR; TUN
Secondary gene pool			
<i>Brassica juncea</i> (L.) Czern.			
<i>Brassica napus</i> L.			
<i>Brassica rapa</i> L.			
Tertiary gene pool			
<i>Diplotaxis harra</i> (Forssk.) Boiss.	ESP; ITA	AFG; ARE; BHR; EGY; IRN; IRQ; ISR; JOR; KWT; OMN; PAK; SAU; SYR; YEM	DZA; EGY; LBY; MAR; TUN
<i>Erucastrum gallicum</i> (Willd.) O.E. Schulz	AUT; CHE; CZE; DEU; ESP; FRA; HUN; ITA; MNE; NLD; SRB; SVN; UKR		

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 5. Overview of the artichoke genepool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary genepool			
<i>Cynara cardunculus</i> L.	ALB; ESP; FRA; GRC; HRV; ITA; PRT		DZA; LBY; MAR; TUN
<i>Cynara cardunculus</i> L. ssp. <i>cardunculus</i> L.	ALB; ESP; FRA; GRC; HRV; ITA		
<i>Cynara cardunculus</i> L. ssp. <i>flavescens</i> Wiklund	ESP; FRA; ITA; PRT		DZA; LBY; MAR; TUN
Secondary genepool			
<i>Cynara algarbiensis</i> Cosson	ESP; PRT		
<i>Cynara aurantica</i> Post		IRN; IRQ; ISR; JOR; LBN; SYR; TUR	
<i>Cynara baetica</i> (Spreng.) Pau	ESP		MAR
<i>Cynara baetica</i> (Spreng.) Pau ssp. <i>baetica</i> (Spreng.) Pau	ESP		
<i>Cynara baetica</i> (Spreng.) Pau ssp. <i>maroccana</i> Wiklund			MAR
<i>Cynara humilis</i> L.	ESP; PRT		DZA; MAR; MRT
<i>Cynara syriaca</i> Boiss.		LBN; SYR	
<i>Cynara tournefortii</i> Boiss. et Reuter	ESP; PRT		MAR
Tertiary genepool			
<i>Cynara cornigera</i> Lindley	GRC	CYP; TUR	EGY; LBY
<i>Cynara cyrenaica</i> Maire et Weiller	GRC		LBY
<i>Cynara makrisii</i> Hand & Hadjik.		CYP	

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 6. Overview of the asparagus genepool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary genepool			
<i>Asparagus officinalis</i> L.	ALB; AUT; BEL; BLR; BGR; CHE; CZE; DEN; DEU; ESP; FRA; GRC; HUN; ITA; MDA; MNE; NLD; POL; PRT; ROU; SRB; UKR	AFG; ARM; AZE; CHN; GEO; IRN; KAZ; LBN; MNG; RUS; SYR; TUR	DZA; MAR; TUN
Secondary genepool			
<i>Asparagus aphyllus</i> L.	ESP; GRC; ITA; PRT	ISR; JOR; LBN; SYR; TUR	EGY; LBY; MAR
<i>Asparagus brachyphyllus</i> Turcz.	ROU	CHN; KAZ; KGZ; KOR; MNG; RUS; TJK; TKM; UZB	
<i>Asparagus dauricus</i> Fisch. ex Link		CHN; KOR; MNG; RUS	
<i>Asparagus inderiensis</i> Blume ex Ledeb.	UKR	KAZ	
<i>Asparagus kiusianus</i> Makino		JAP	
<i>Asparagus maritimus</i> (L.) Miller	ALB; ESP; FRA; GRC; ITA; MNE; SRB; UKR		MAR
<i>Asparagus oligoclonos</i> Maxim.		CHN; JAP; KOR; MNG; RUS	
<i>Asparagus prostratus</i> Dumort.	BEL; DEN; DEU; ESP; FRA; GBR; IRL; NLD		
<i>Asparagus pseudoscaber</i> Grecescu	MNE; ROU; UKR; SRB		
<i>Asparagus schoberioides</i> Kunth		CHN; JAP; MNG; RUS	
<i>Asparagus tenuifolius</i> Lam.	AUT; BGR; CHE; FRA; ITA; MNE; ROU; SRB	TUR	
Tertiary genepool			
<i>Asparagus acutifolius</i> L.	ALB; ESP; FRA; GRC; ITA; MNE; SRB	CYP; ISR; TUR	DZA; LBY; MAR; TUN
<i>Asparagus albus</i> L.	ESP; FRA; ITA; PRT		DZA; LBY; MAR; TUN
<i>Asparagus asparagoides</i> L.			ETH; LSO; NAM; SWZ; ZAF
<i>Asparagus cochinchinensis</i> (Lour.) Merr.		CHN; JAP; LAO; PHL; TWN; VNM	
<i>Asparagus densiflorus</i> (Kunth) Jessop			LSO; SWZ; ZAF
<i>Asparagus denudatus</i> (Kunth) Baker			LSO; ZAF
<i>Asparagus drepanophyllus</i> Welw. ex Baker			CAF; CMR; GNQ
<i>Asparagus filicinus</i> Hamilton ex D.Don		BTN; CHN; IND; MMR; NPL; THA	
<i>Asparagus horridus</i> L.	ESP; GRC; ITA; PRT	ARE; BHR; CYP; ISR; JOR; LBN; QAT; SAU; SYR	DZA; EGY; LBY; MAR; TUN
<i>Asparagus lycopodineus</i> Wall. ex Baker		BTN; CHN; IND; MMR	
<i>Asparagus macowanii</i> Baker			MOZ; ZAF
<i>Asparagus scandens</i> Thunb.			ZAF
<i>Asparagus verticillatus</i> L.	BGR; GRC; MNE; ROU; SRB; UKR	ARM; AZE; GEO; IRN; IRQ; TKM; TUR; RUS	
<i>Asparagus virgatus</i> Baker		YEM	MOZ; NAM; SWZ; TZA; ZAF; ZMB

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 7. Overview of the garden cress genepool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary genepool			
<i>Lepidium sativum</i> L.		AFG; ARE; IRN; IRQ; ISR; JOR; KWT; LBN; OMN; PAK; SAU; SYR; TUR; YEM	EGY; ETH
<i>Lepidium spinescens</i> DC.			
<i>Lepidium spinosum</i> Ard.	GRC	ISR; LBN; SYR; TUR	

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 8. Overview of the perennial wall rocket gene pool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary gene pool			
<i>Diplotaxis tenuifolia</i> (L.) DC.	ALB; AUT; BEL; BGR; BIH; CHE; CZE; DEU; ESP; FRA; GRC; HRV; HUN; ITA; MDA; MKD; MNE; NLD; ROU; SRB; SVK; SVN; UKR	ARM; GEO; SYR; TUR	
Secondary gene pool			
<i>Brassica juncea</i> (L.) Czern.			
<i>Brassica nigra</i> (L.) W.D.J. Koch	ALB; AUT; BEL; BGR; BIH; BLR; CHE; CZE; DEN; DEU; ESP; EST; FRA; GBR; GRC; HRV; HUN; IRL; ITA; LTU; LVA; MDA; MKD; MNE; NLD; NOR; POL; PRT; ROU; RUS; SRB; SVK; SVN; SWE; UKR	AFG; ARM; CHN; CYP; IND; IRN; IRQ; ISR; KAZ; LBN; NPL; PAK; RUS; SYR; TUR	DZA; EGY; ERI; ETH; LBY; MAR; TUN
<i>Brassica rapa</i> L.			
Tertiary gene pool			
<i>Brassica elongata</i> Ehrh.	AUT; BGR; BIH; CZE; HRV; HUN; MDA; MKD; ROU; RUS; SRB; SVK; SVN; UKR	AFG; ARM; AZE; CHN; GEO; IRN; KAZ; RUS; TJK; TKM; TUR; UZB	MAR
<i>Brassica oleracea</i> L.	DEU; ESP; FRA; GBR		
<i>Erucastrum virgatum</i> C. Presl	ESP; ITA		

Appendix 9. Overview of the Peruvian ginseng/maca genepool and the native distribution area of the crop wild relatives.

Species	S-America
Primary genepool	
<i>Lepidium meyenii</i> Walp.	PER
Secondary genepool	
<i>Lepidium bipinnatifidum</i> Desv.	
<i>Lepidium bonariense</i> L.	ARG; BRA; CHL; PRY; URY
<i>Lepidium quitense</i> Turcz.	

Appendix 10. Overview of the rhubarb genepool and the native distribution area of the crop wild relatives.

Species	Asia
Primary genepool	
<i>Rheum rhabarbarum</i> L.	
Secondary genepool	
<i>Rheum alexandrae</i> Batalin	CHN
<i>Rheum compactum</i> L.	CHN; KAZ; MNG; RUS
<i>Rheum hotaoense</i> C.Y. Cheng & T.C. Kao	CHN
<i>Rheum lhasaense</i> A.J. Li & P.K. Hsiao	CHN
<i>Rheum likiangense</i> Sam.	CHN
<i>Rheum nanum</i> J.F.E. Siev.	CHN; KAZ; MNG
<i>Rheum palmatum</i> L.	CHN
<i>Rheum tanguticum</i> (Maxim. ex Regel) Maxim. ex Balf.	CHN
<i>Rheum undulatum</i> L.	CHN; KOR; MNG; RUS
<i>Rheum wittrockii</i> C.E. Lundstr.	CHN; KGZ; PAK; TJK

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 11. Overview of the rocket salad gene pool and the native distribution area of the crop wild relatives.

Species	Europe	Asia	Africa
Primary gene pool			
<i>Eruca vesicaria</i> (L.) Cav.	BGR; ESP; FRA; GRC; ITA; PRT; ROU; SRB; UKR	AFG; ARM; AZE; CYP; IRN; IRQ; ISR; JOR; LBN; PAK; RUS; SYR; TKM; TUR	DZA; EGY; LBY; MAR; TCD; TUN
<i>Eruca vesicaria</i> (L.) Cav. ssp. <i>pinnatifida</i> (Desf.) Thell.	ESP		DZA; MAR; TUN
<i>Eruca vesicaria</i> (L.) Cav. ssp. <i>sativa</i> (Mill.) Thell.	BGR; ESP; FRA; GRC; ITA; PRT; ROU; SRB; UKR	AFG; ARM; AZE; CHN; CYP; IRN; IRQ; ISR; JOR; LBN; MNG; PAK; RUS; SYR; TKM; TUR	DZA; EGY; LBY; MAR; TCD; TUN
<i>Eruca vesicaria</i> (L.) Cav. ssp. <i>vesicaria</i> (L.) Cav.	ESP		DZA; MAR
Secondary gene pool			
<i>Diplotaxis simplex</i> (Viv.) Spr.			DZA; EGY; LBY; TUN
<i>Diplotaxis tenuifolia</i> (L.) DC.	ALB; AUT; BEL; BGR; BIH; CHE; CZE; DEU; ESP; FRA; GRC; HRV; HUN; ITA; MDA; MKD; MNE; NLD; ROU; SRB; SVK; SVN; UKR	ARM; GEO; SYR; TUR	
<i>Diplotaxis tenuifolia</i> (L.) DC. ssp. <i>cretacea</i> (Kotov) Sobrino-Vesperinas	UKR		
<i>Diplotaxis tenuifolia</i> (L.) DC. ssp. <i>tenuifolia</i> (L.) DC.	ALB; AUT; BEL; BGR; BIH; CHE; CZE; DEU; ESP; FRA; GRC; HRV; HUN; ITA; MKD; MNE; NLD; SRB; SVK; SVN	ARM; GEO; SYR; TUR	
Tertiary gene pool			
<i>Brassica juncea</i> (L.) Czern.			
<i>Brassica napus</i> L.			
<i>Brassica oleracea</i> L.	DEU; ESP; FRA; GBR		
<i>Brassica rapa</i> L.			
<i>Brassica repanda</i> (Willd.) DC.	ESP; FRA; ITA		DZA; MAR
<i>Raphanus sativus</i> L.			

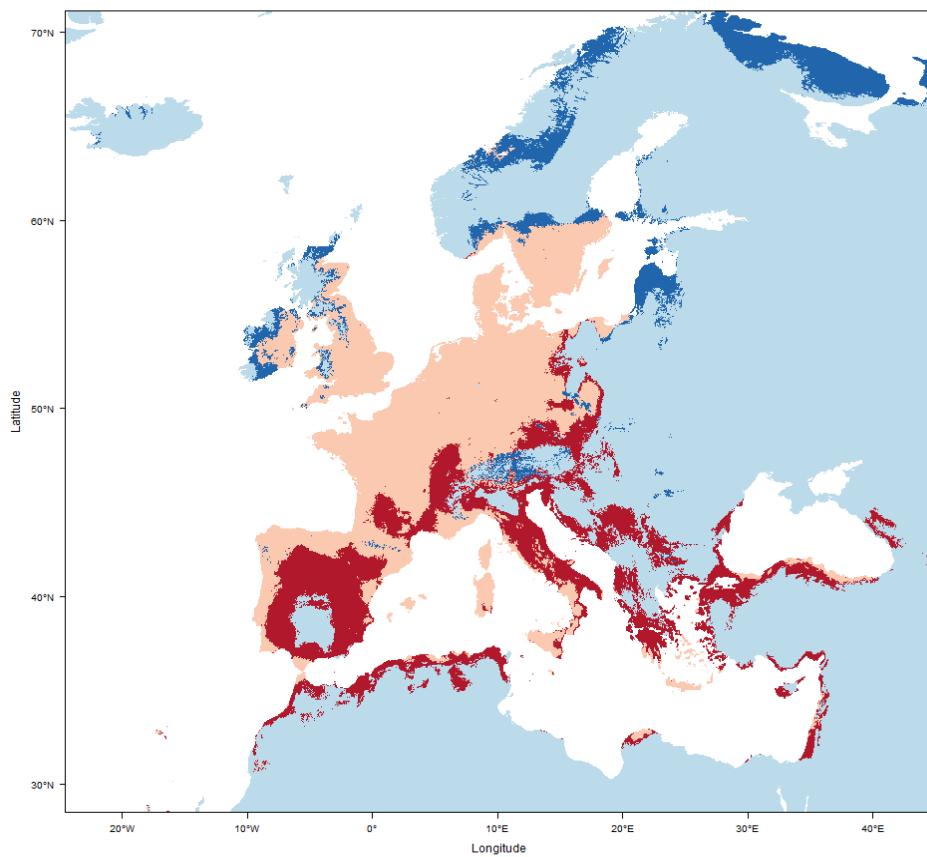
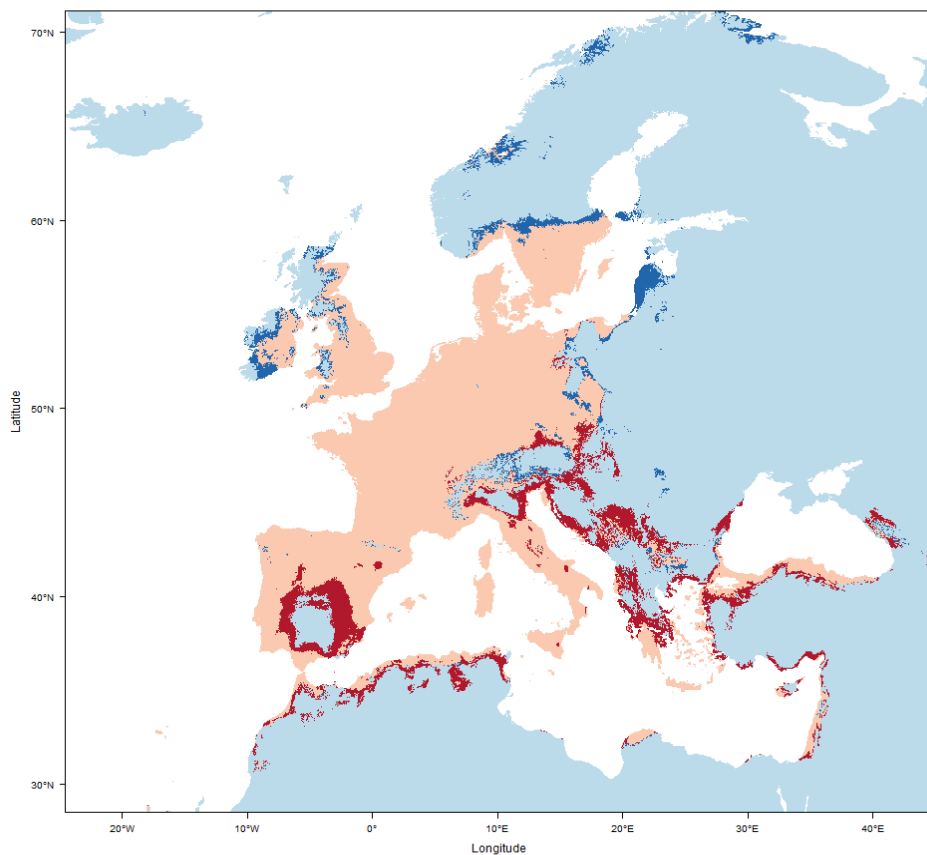
Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 12. Taxon group 1 species of eight leafy vegetables crops and their native distribution areas.

Species	Europe	Asia	Africa	Australasia
Corn salad; Lamb's lettuce				
<i>Valerianella locusta</i> (L.) Laterr.	ALB; AUT; BEL; BGR; BLR; CHE; CZE; DEN; DEU; ESP; FIN; FRA; GBR; GRC; HUN; IRL; ITA; MDA; MNE; NLD; NOR; POL; PRT; ROU; RUS; SRB; SWE; UKR	AZE; GEO; RUS; SYR; TUR	DZA; MAR	
Dandelion; Lion's tooth				
<i>Taraxacum officinale</i> (L.) Weber ex F.H. Wigg.	ALB; AUT; BEL; BGR; BIH; BLR; CHE; CZE; DEN; DEU; ESP; EST; FIN; FRA; FRO; GBR; GRC; HRV; HUN; IRL; ISL; ITA; LTU; LVA; MDA; MKD; MNE; NLD; NOR; POL; PRT; ROU; RUS; SRB; SVK; SVN; SWE; UKR	ARM; AZE; GEO; IND; KAZ; KGZ; LBN; MNG; RUS; SYR; TJK; TKM; TUR	MAR	
French spinach; Garden orache				
<i>Atriplex hortensis</i> L.				
Garland chrysanthemum				
<i>Glebionis coronaria</i> (L.) Cass. ex Spach	BIH; ESP; FRA; GRC; ITA; PRT	CYP; IRN; ISR; JOR; LBN; PAK; SYR; TUR	DZA; EGY; LBY; MAR; TUN	
Good king Henry; Mercury				
<i>Blitum bonus-henricus</i> (L.) Rchb.	ALB; AUT; BGR; BIH; BLR; CHE; CZE; DEU; ESP; EST; FRA; GRC; HRV; HUN; ITA; LTU; LVA; MKD; MNE; NOR; POL; ROU; RUS; SRB; SVK; SVN; SWE; UKR			
New Zealand spinach				
<i>Tetragonia tetragonioides</i> (Pall.) Kunze		CHN; JAP; TWN		AUS; NZL
Purslane				
<i>Portulaca oleracea</i> L.				
Sorrel dock; Sour dock				
<i>Rumex acetosa</i> L.	ALB; AUT; BEL; BIH; BGR; BLR; CHE; CZE; DEN; DEU; ESP; FIN; FRA; GBR; HRV; HUN; IRL; ITA; MDA; MKD; MNE; NLD; NOR; POL; PRT; ROU; RUS; SJM; SRB; SVK; SVN; SWE; UKR	AFG; ARM; AZE; CHN; GEO; IND; IRN; JAP; KAZ; KOR; NPL; PAK; RUS; TUR; TWN	MAR	AUS
<i>Rumex acetosa</i> ssp. <i>acetosa</i>	ALB; AUT; BEL; BIH; BGR; BLR; CHE; CZE; DEN; DEU; ESP; FIN; FRA; GBR; HRV; HUN; IRL; ITA; MDA; MKD; MNE; NLD; NOR; POL; PRT; ROU; RUS; SJM; SRB; SVK; SVN; SWE; UKR	AFG; ARM; AZE; CHN; GEO; IND; IRN; JAP; KAZ; KOR; NPL; PAK; RUS; TUR; TWN	MAR	AUS
<i>Rumex acetosa</i> ssp. <i>hibernicus</i> (Rech. f.) Akeroyd	GBR; IRL			
<i>Rumex acetosa</i> ssp. <i>vinealis</i> (Timb.-Lagr. & Jeanb.) O. Bolòs & Vigo				

Appendix 13. Predicted distribution of *Lactuca serriola* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

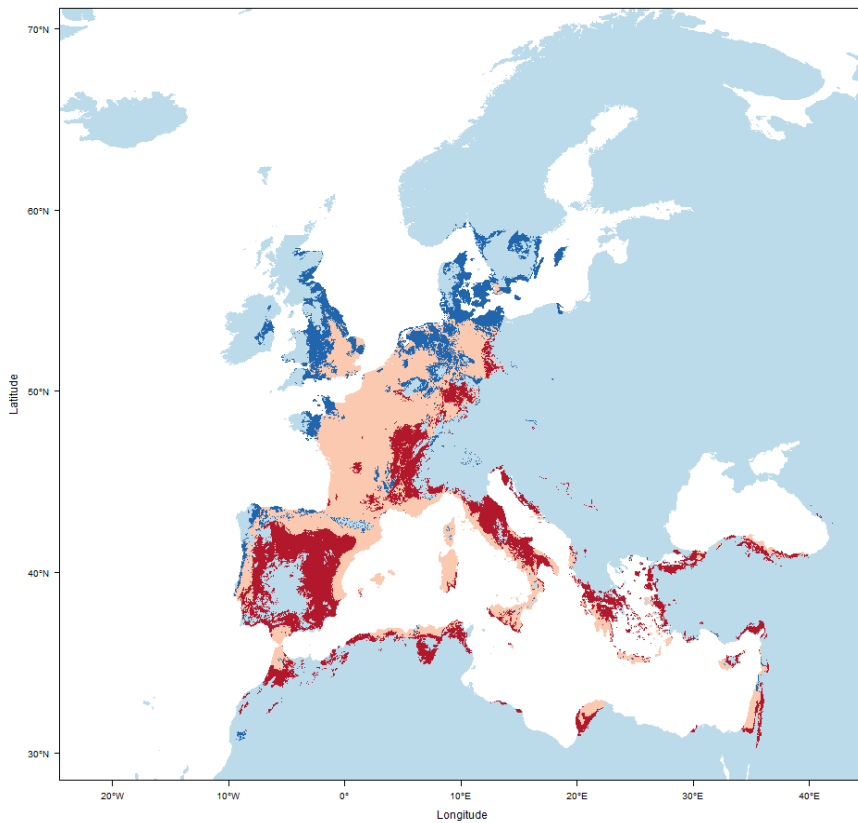
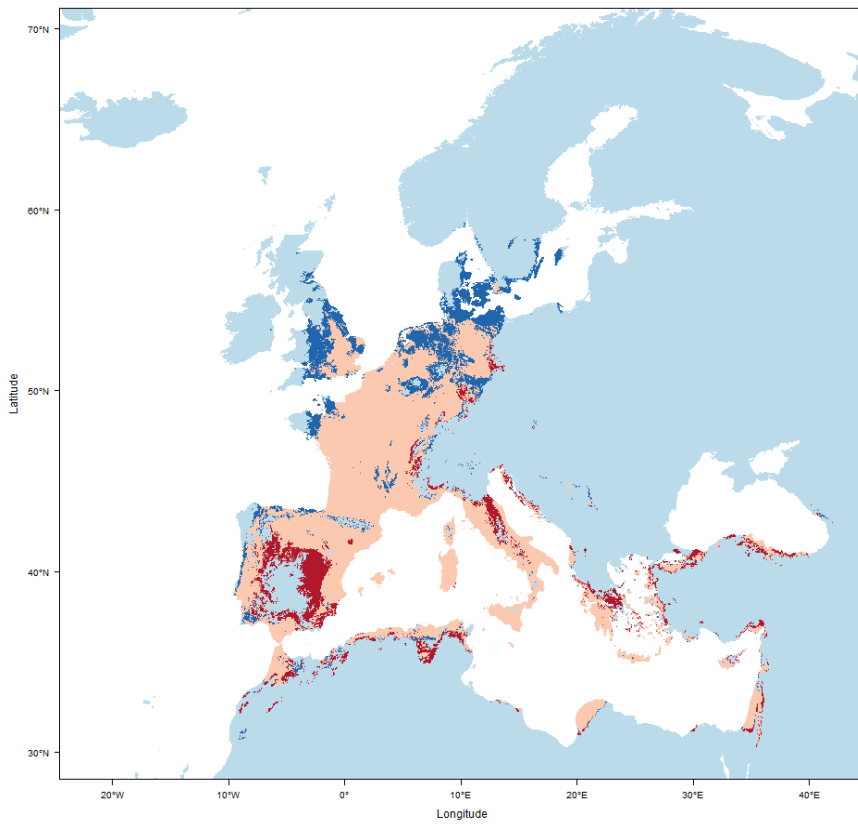
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 14. Predicted distribution of *Lactuca saligna* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

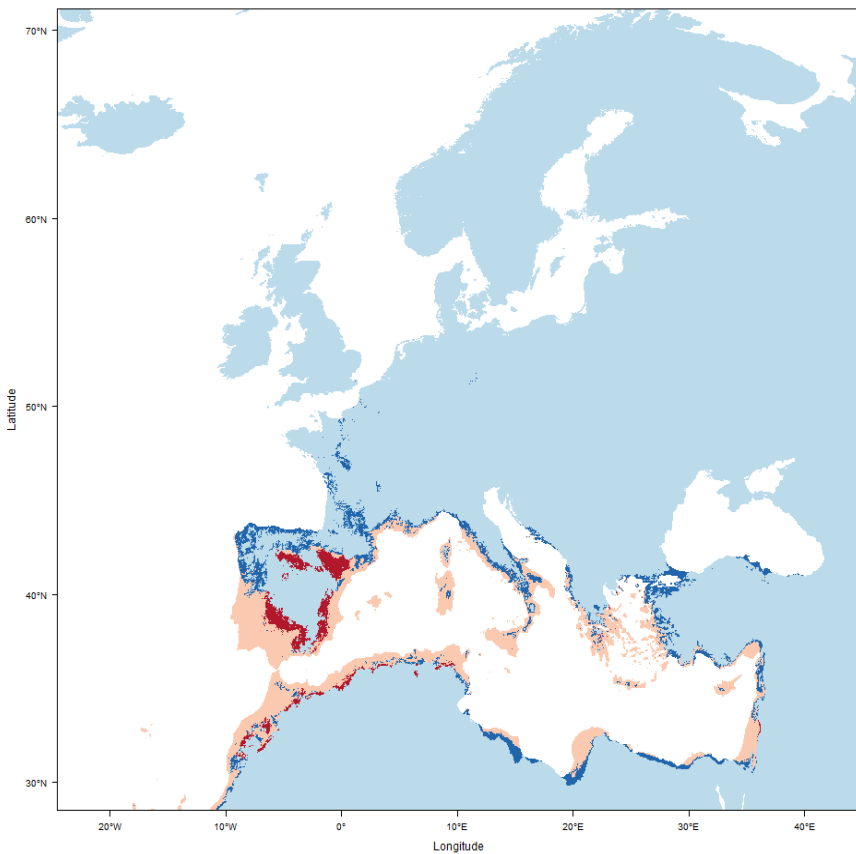
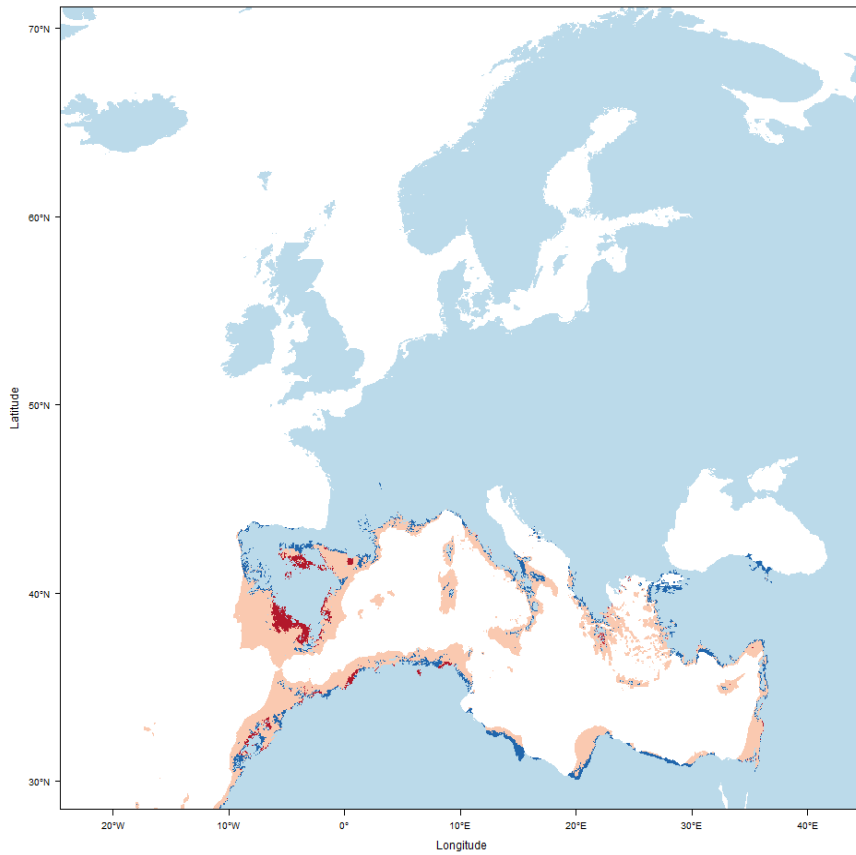
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

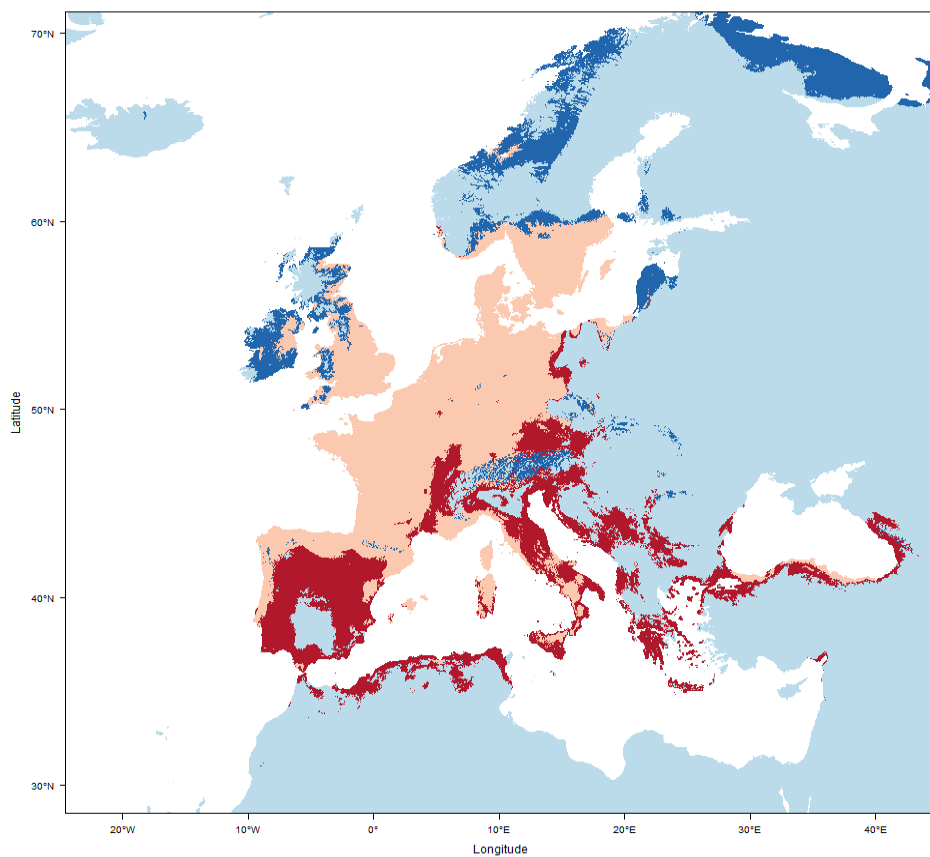
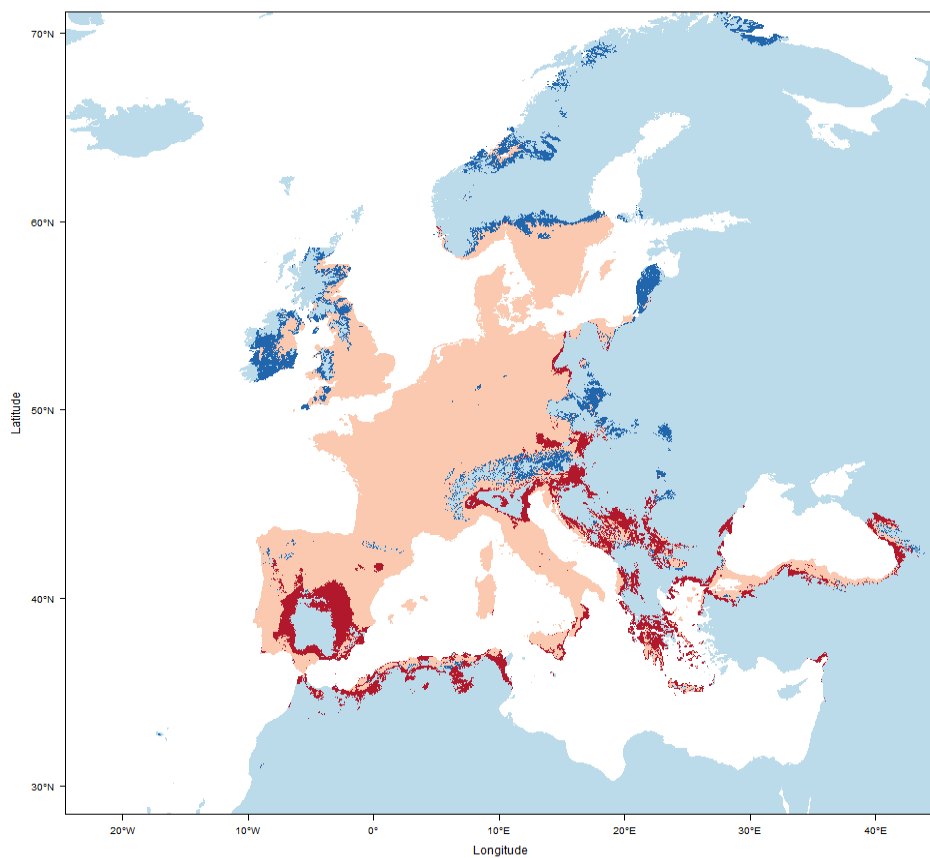
Appendix 15. Predicted distribution of *Cichorium pumilum* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Appendix 16. Predicted distribution of *Cichorium intybus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

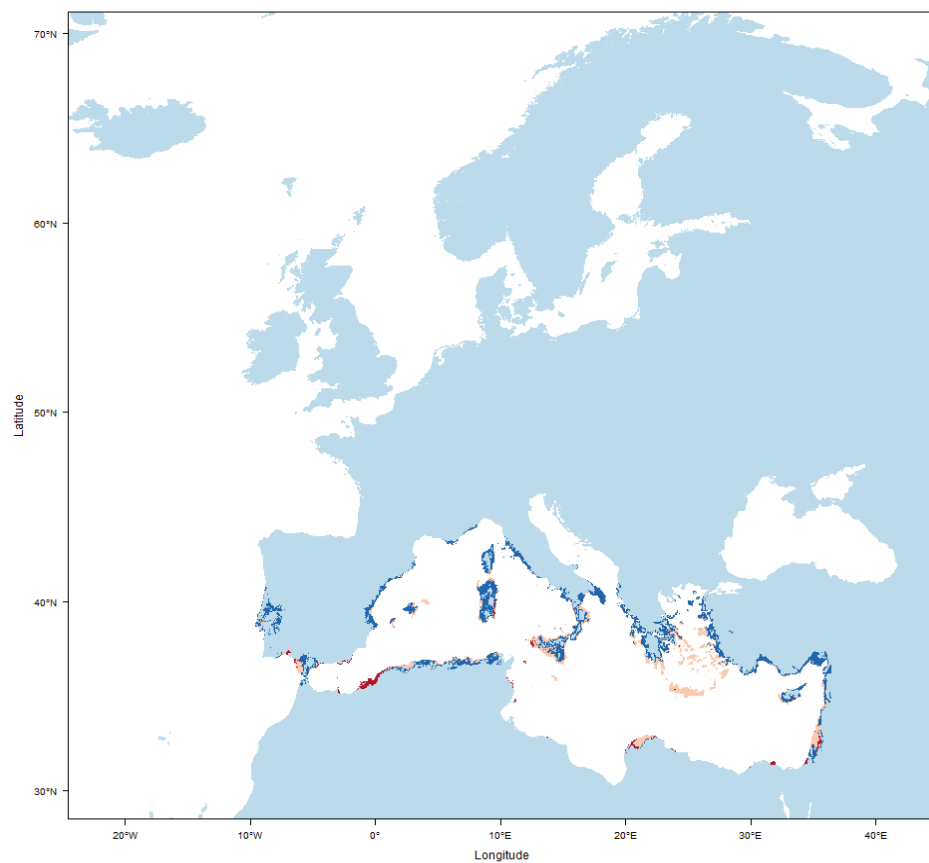
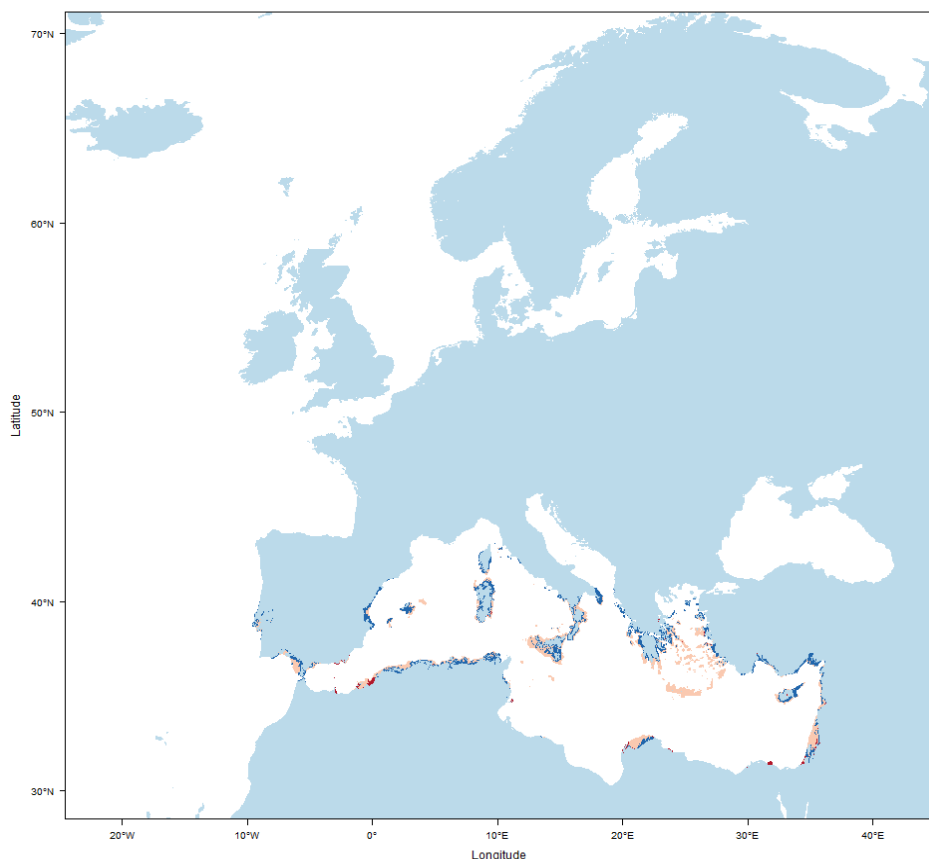
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

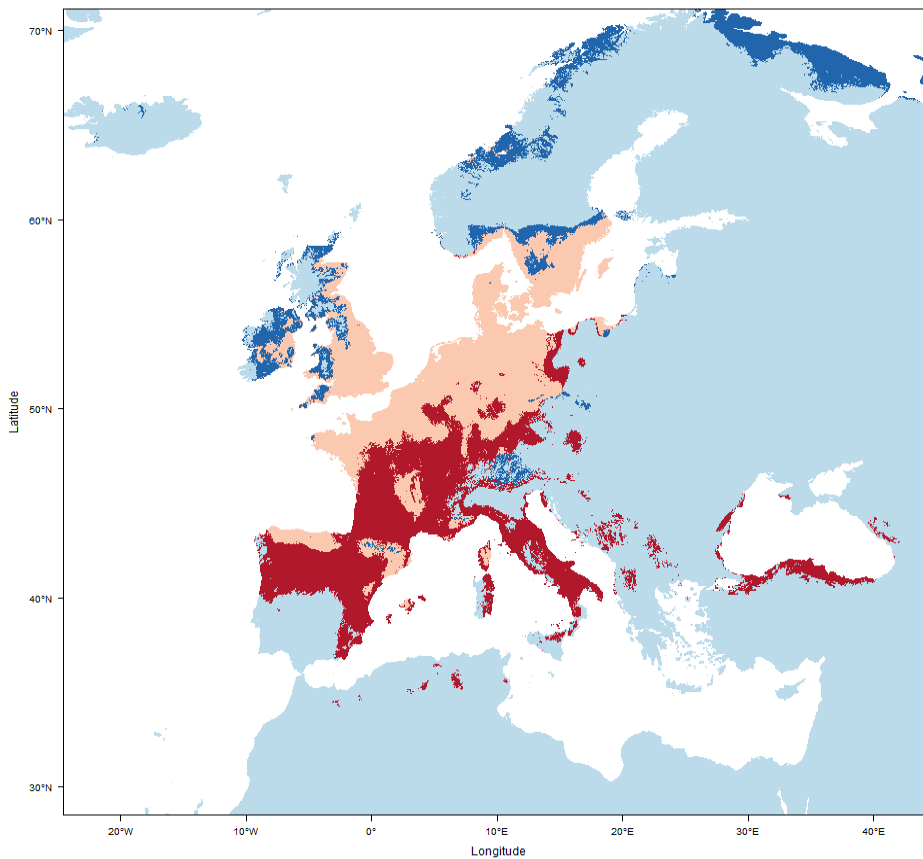
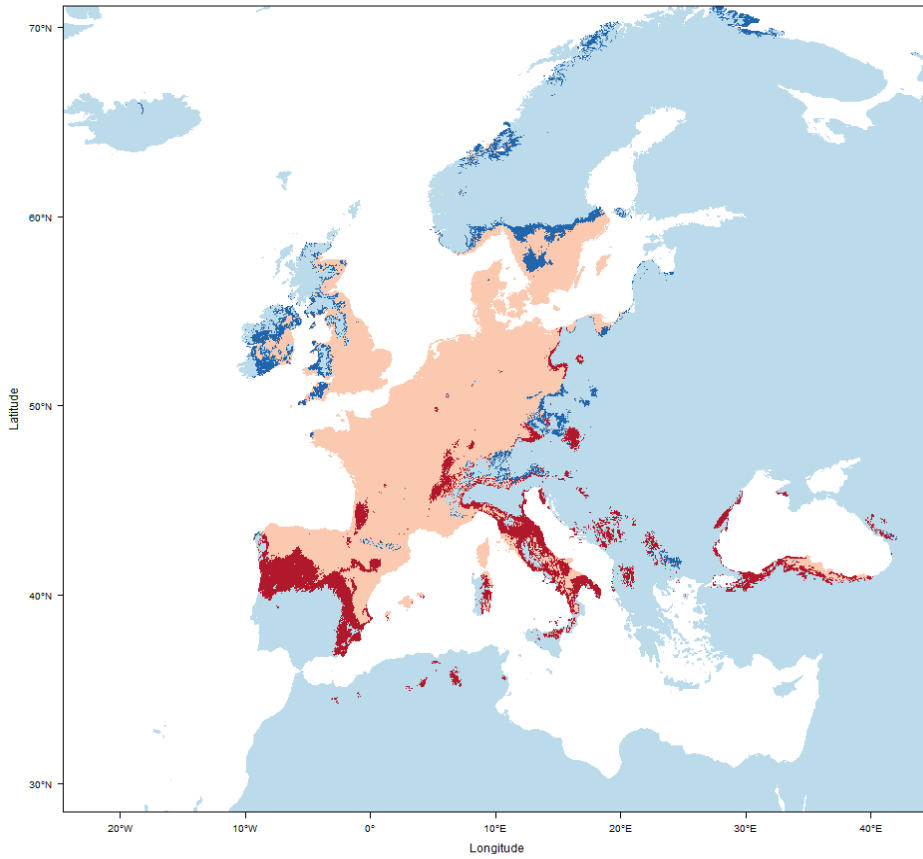
Appendix 17. Predicted distribution of *Cichorium spinosum* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



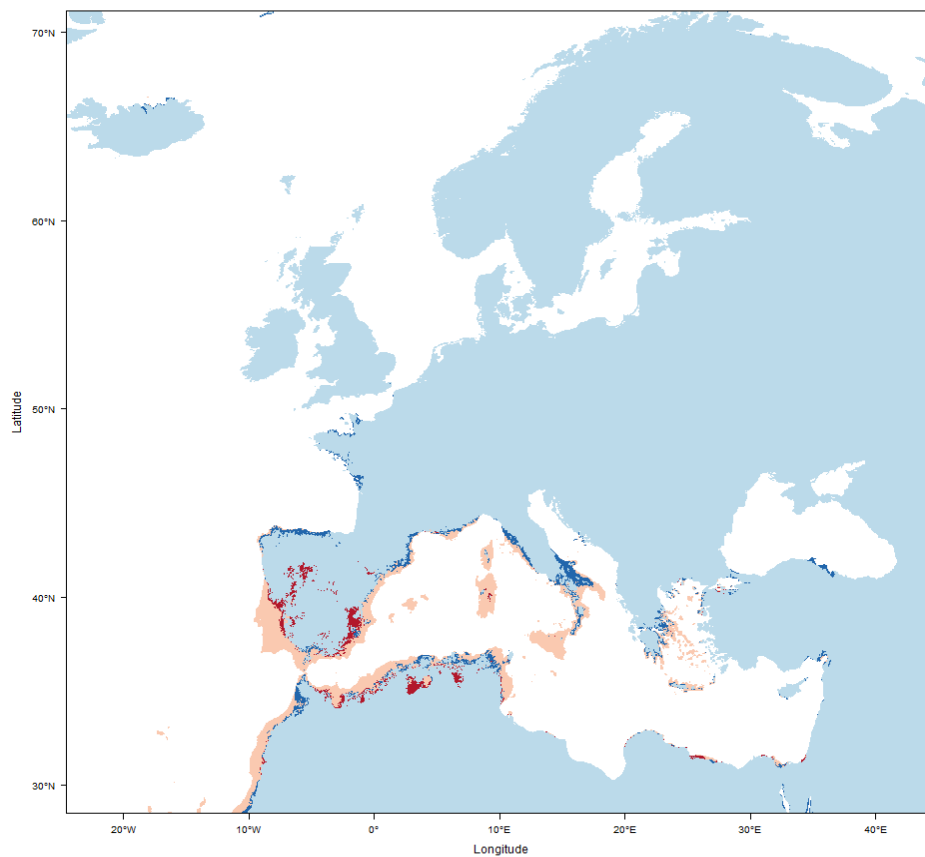
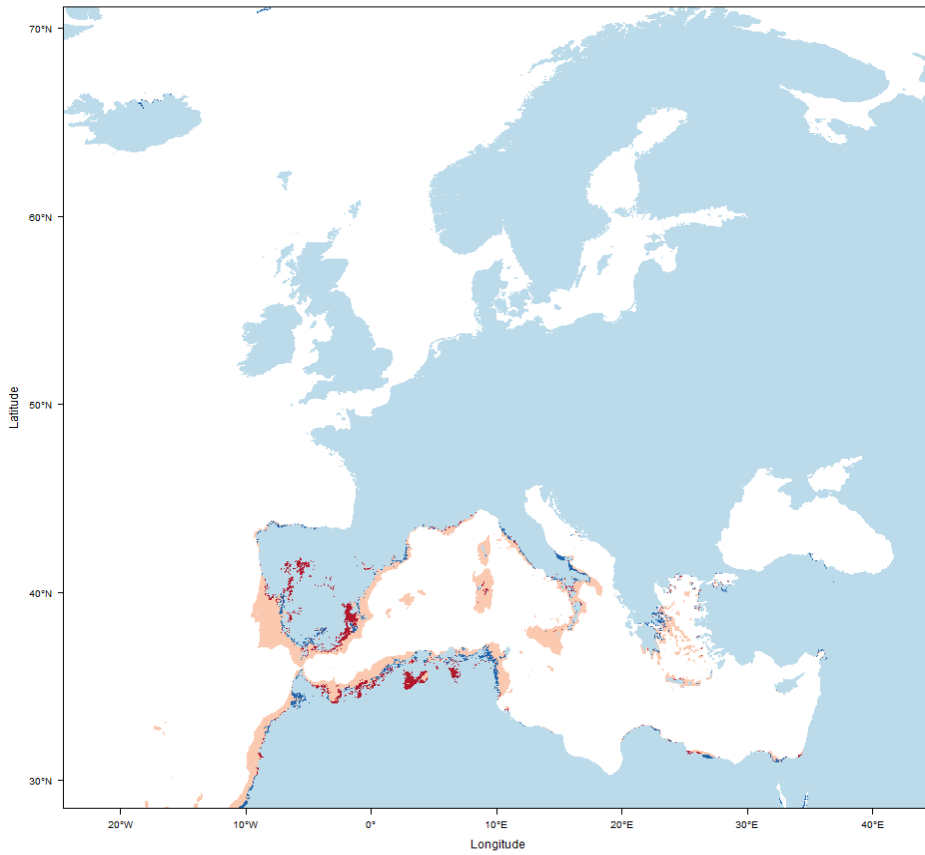
Appendix 18. Predicted distribution of *Diplotaxis muralis* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



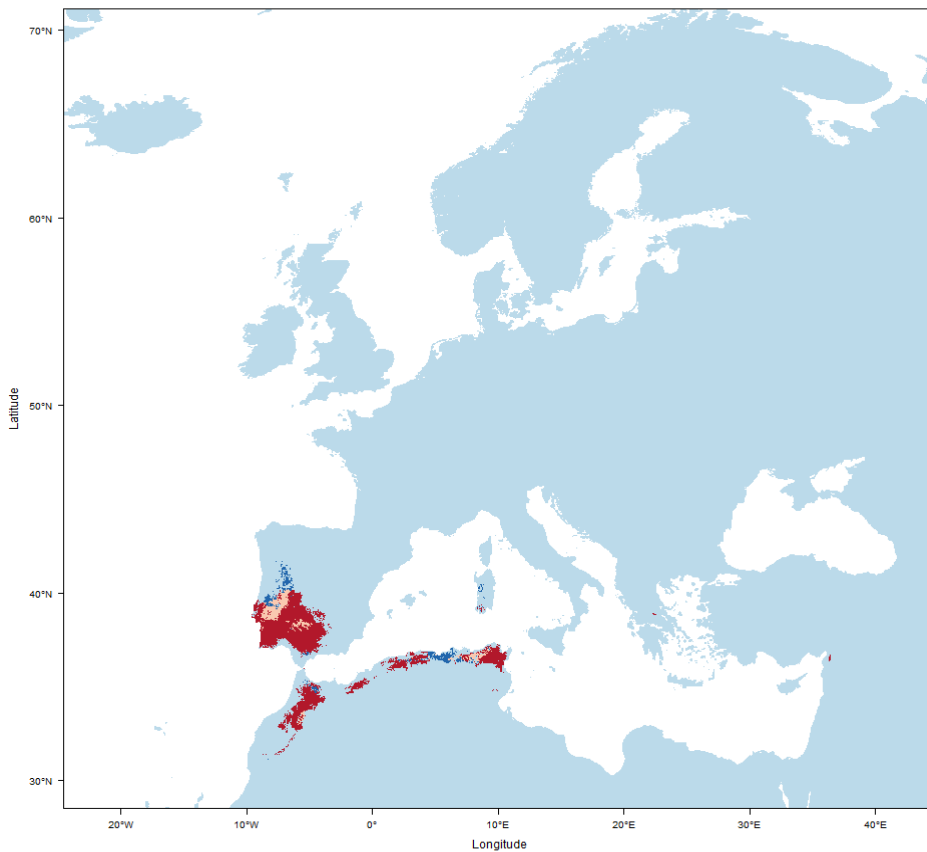
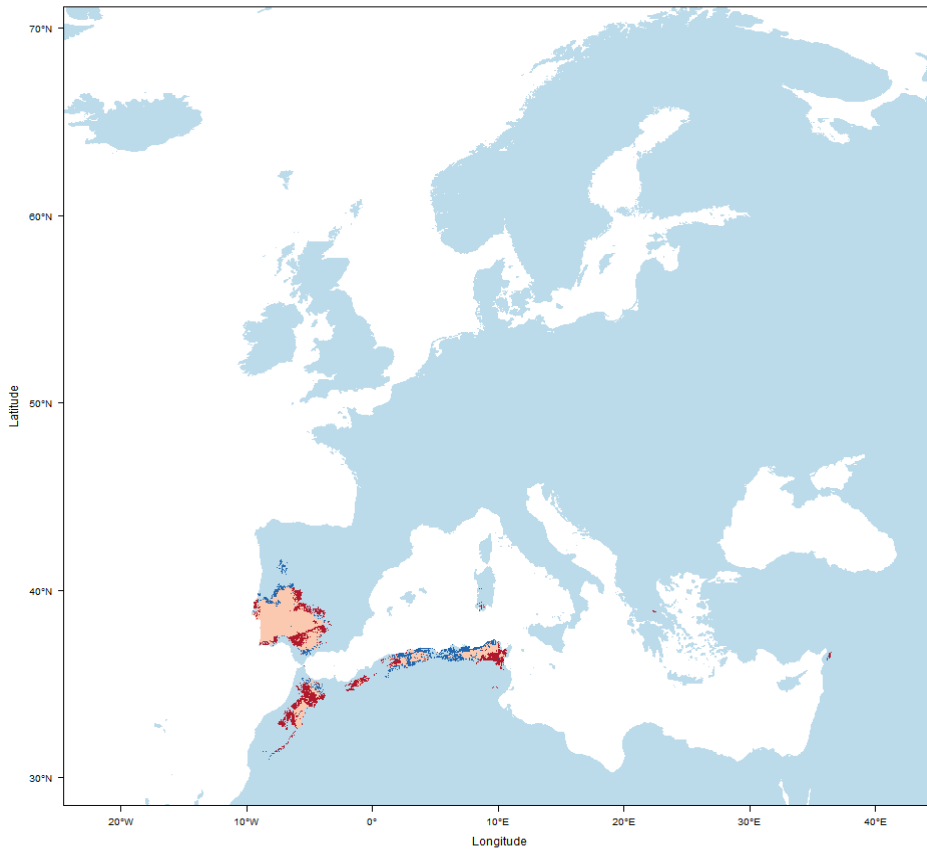
Appendix 19. Predicted distribution of *Cynara cardunculus* ssp. *cardunculus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Appendix 20. Predicted distribution of *Cynara cardunculus* ssp. *flavescens* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

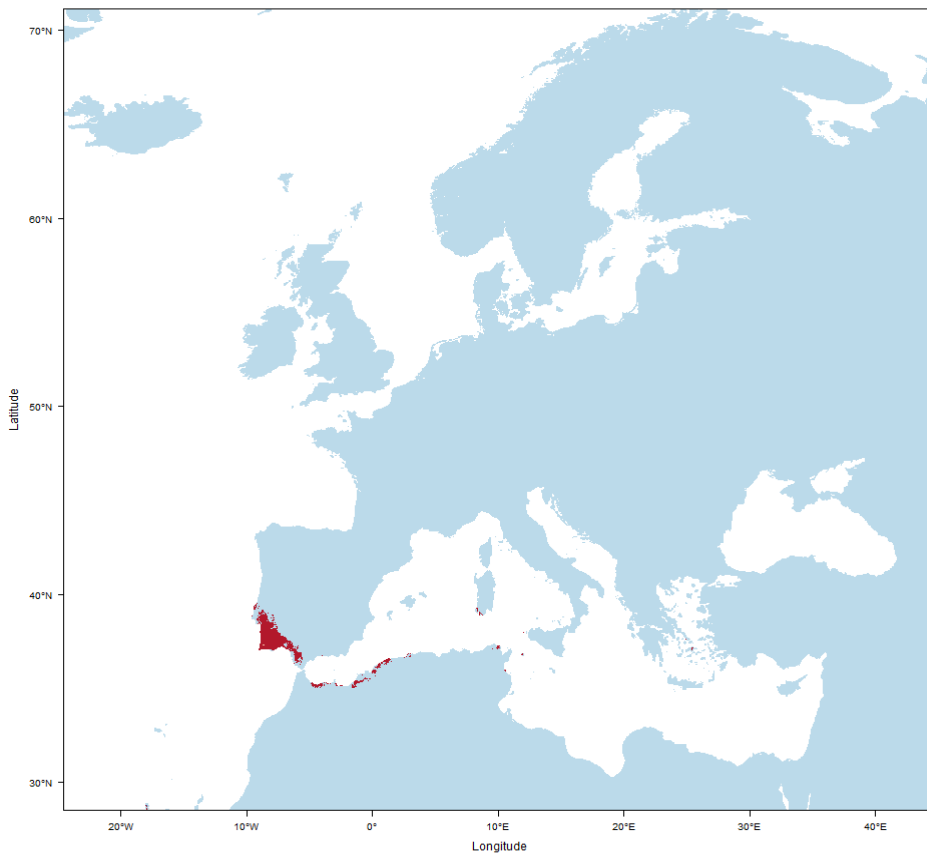
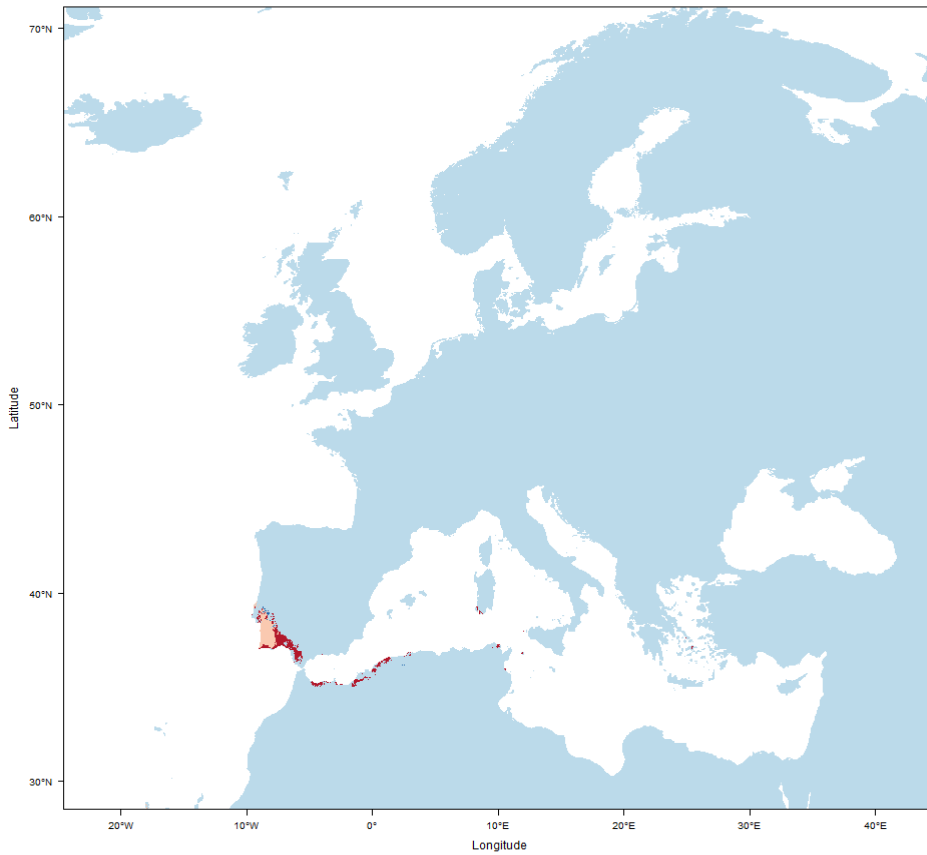
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 21. Predicted distribution of *Cynara algarbiensis* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

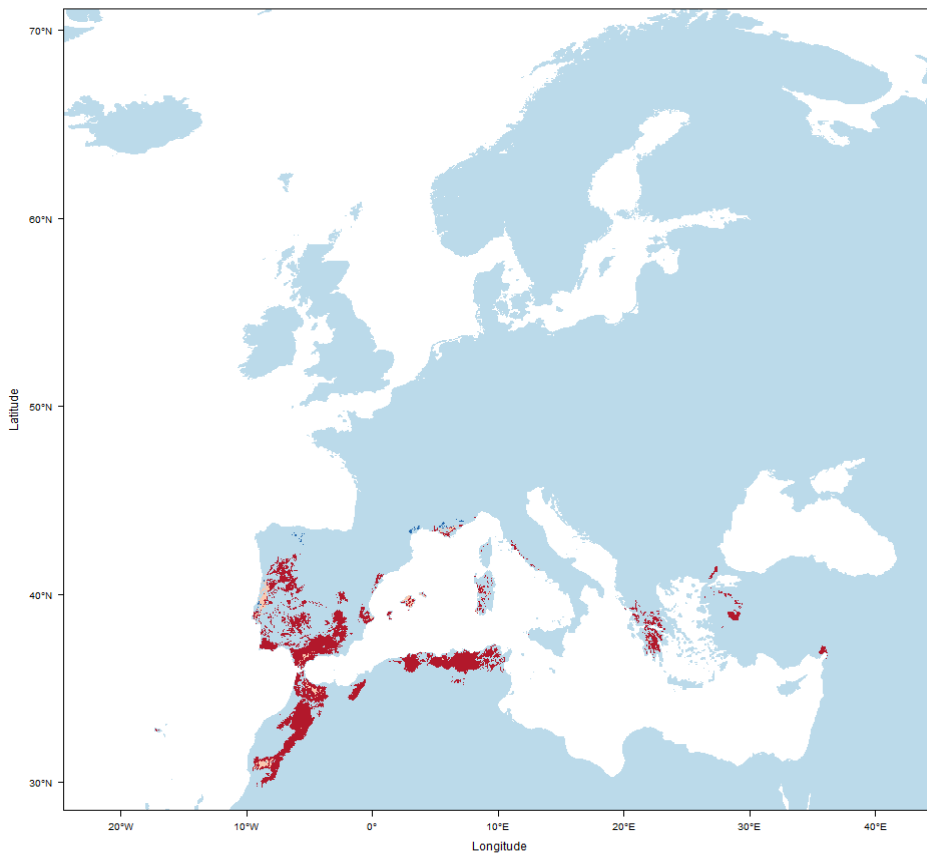
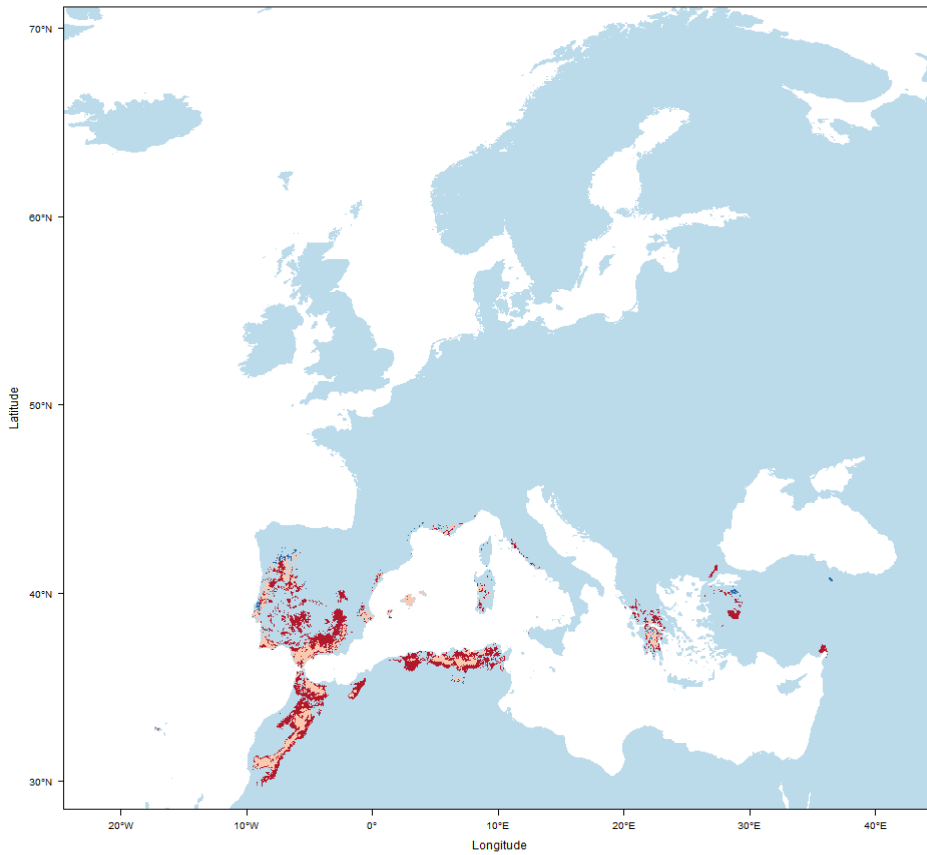
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

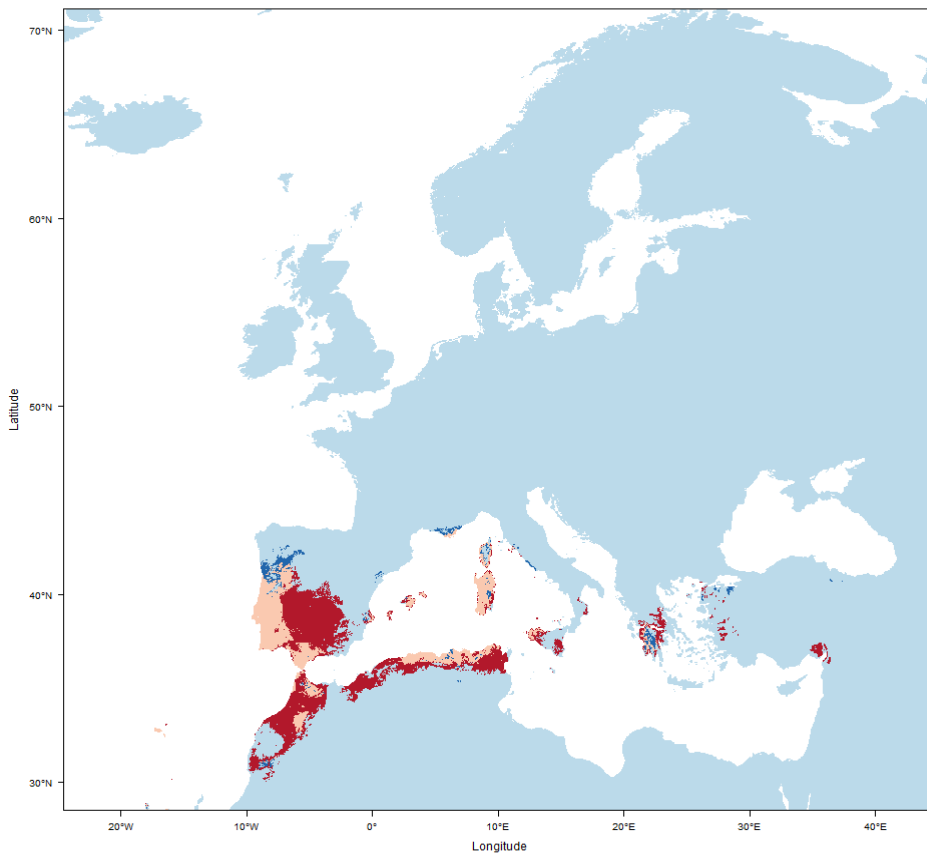
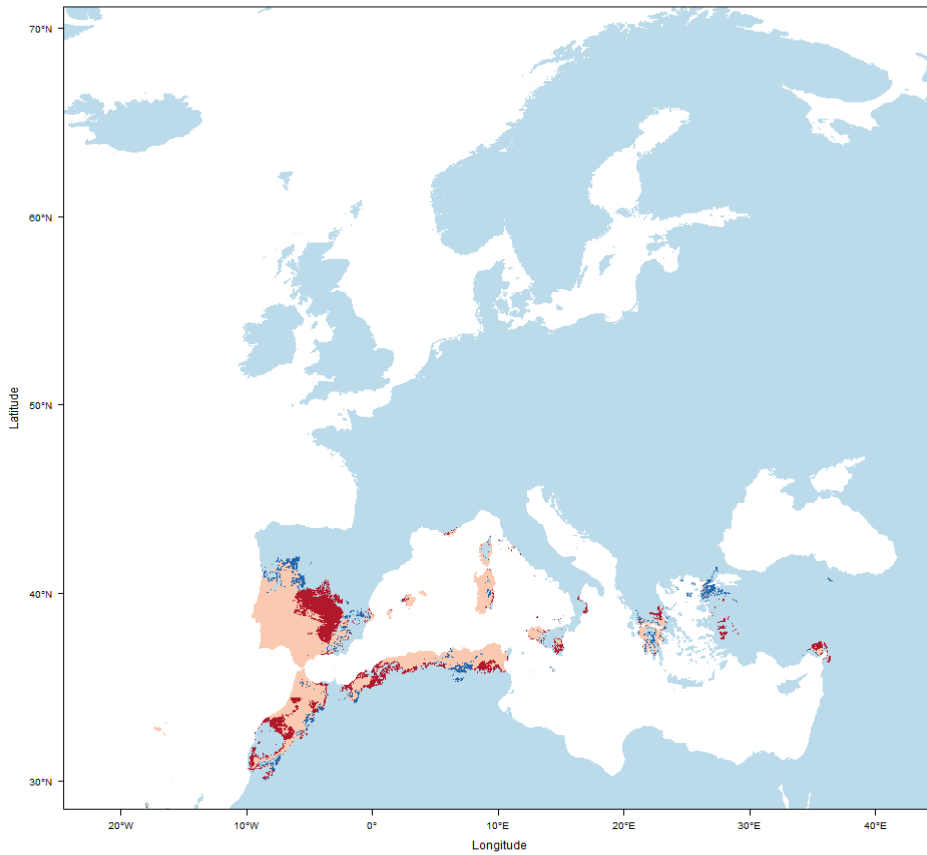
Appendix 22. Predicted distribution of *Cynara baetica* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



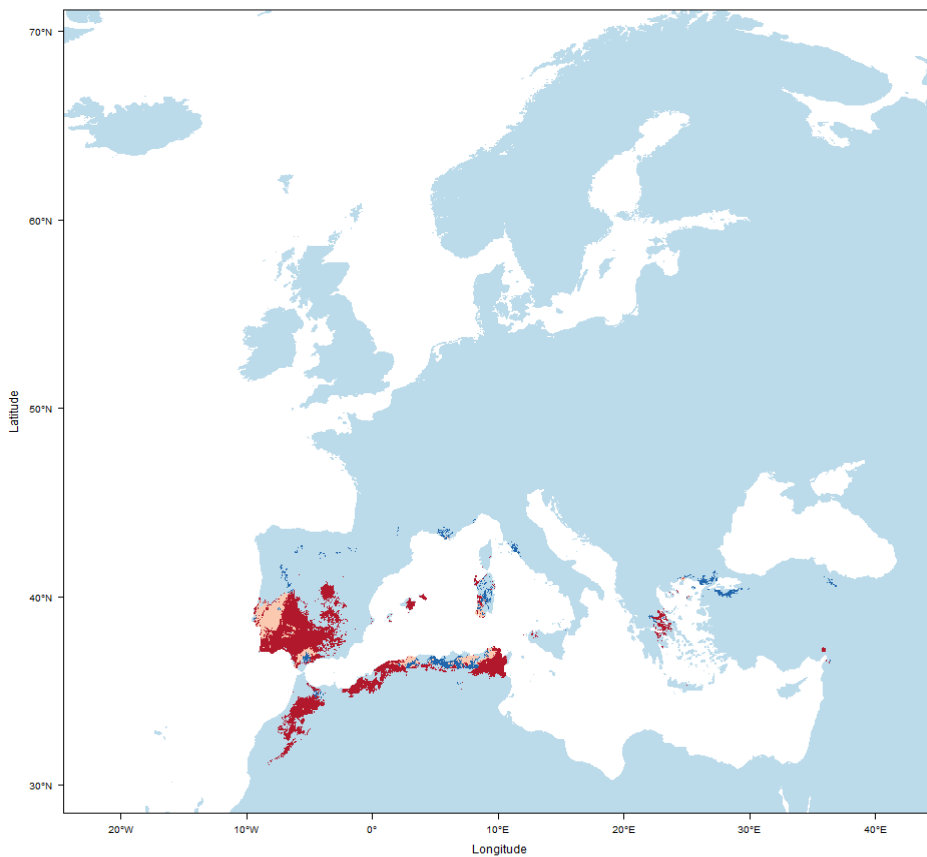
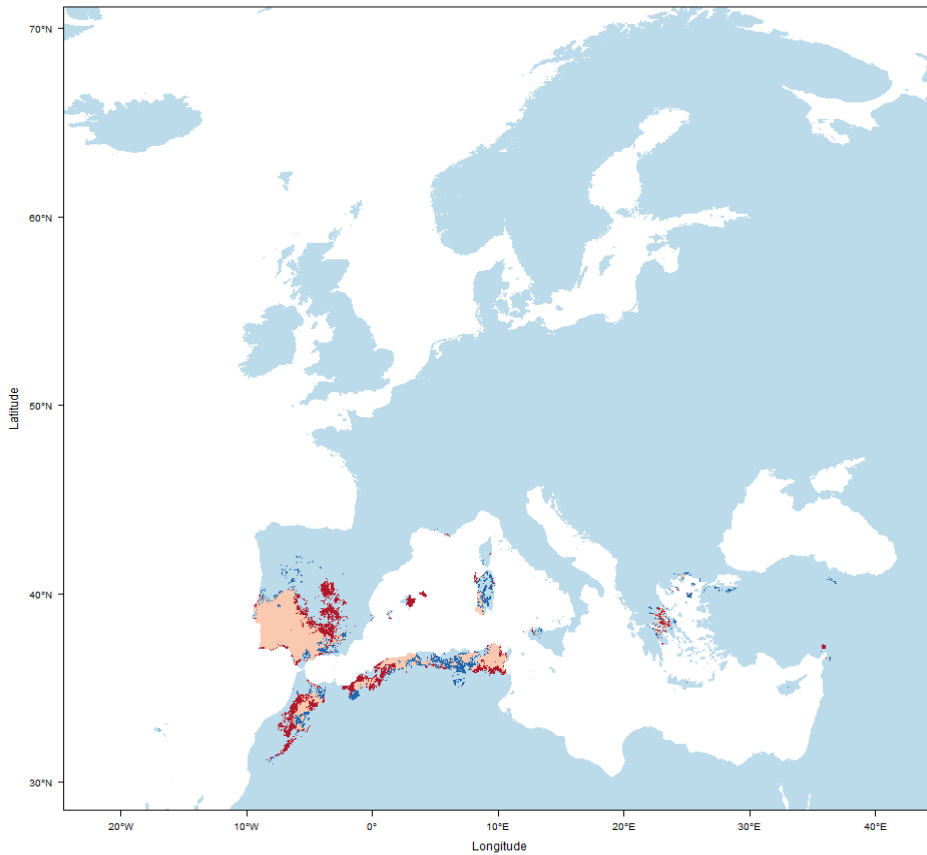
Appendix 23. Predicted distribution of *Cynara humilis* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



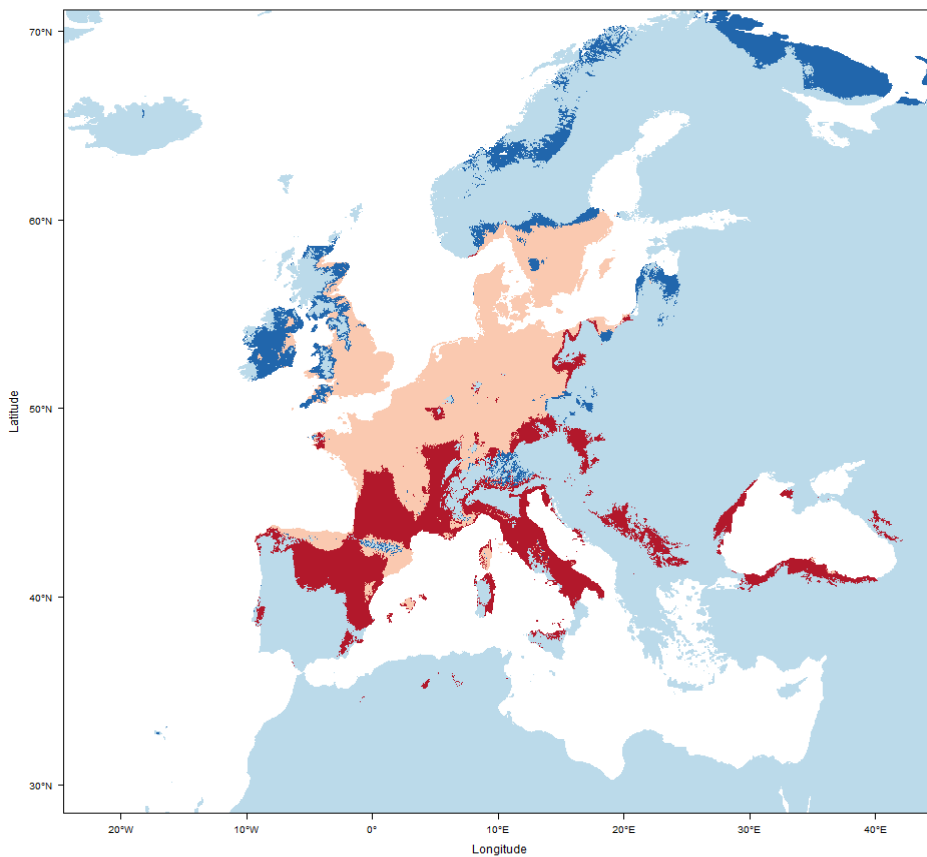
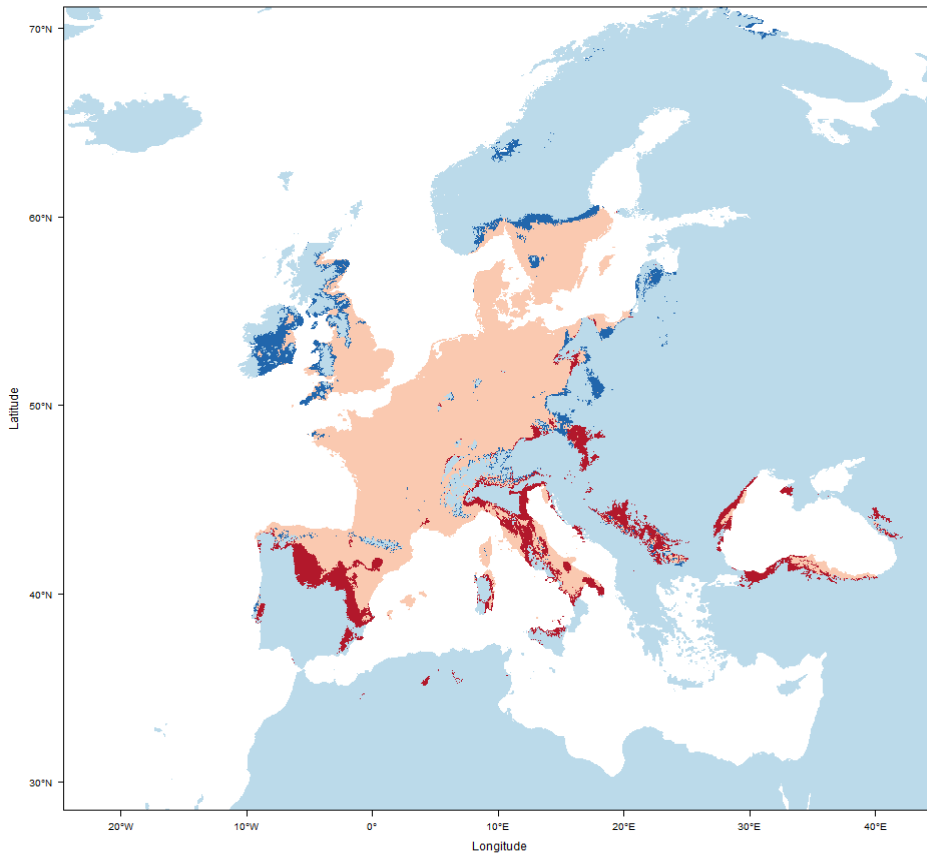
Appendix 24. Predicted distribution of *Cynara tournefortii* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



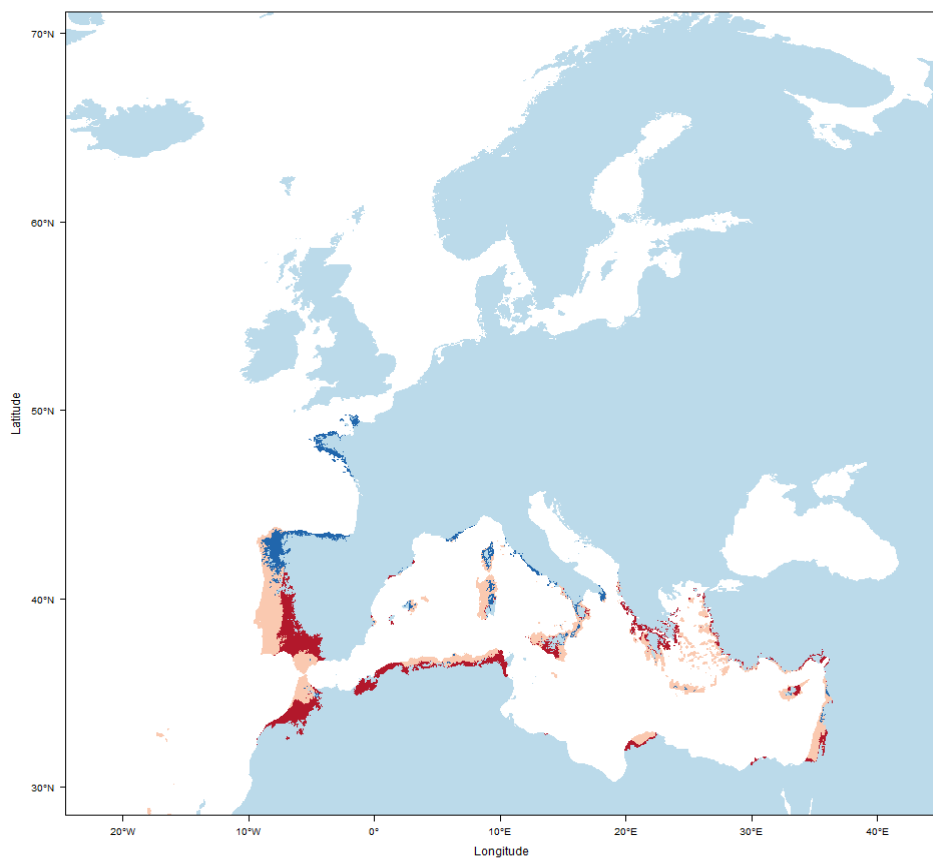
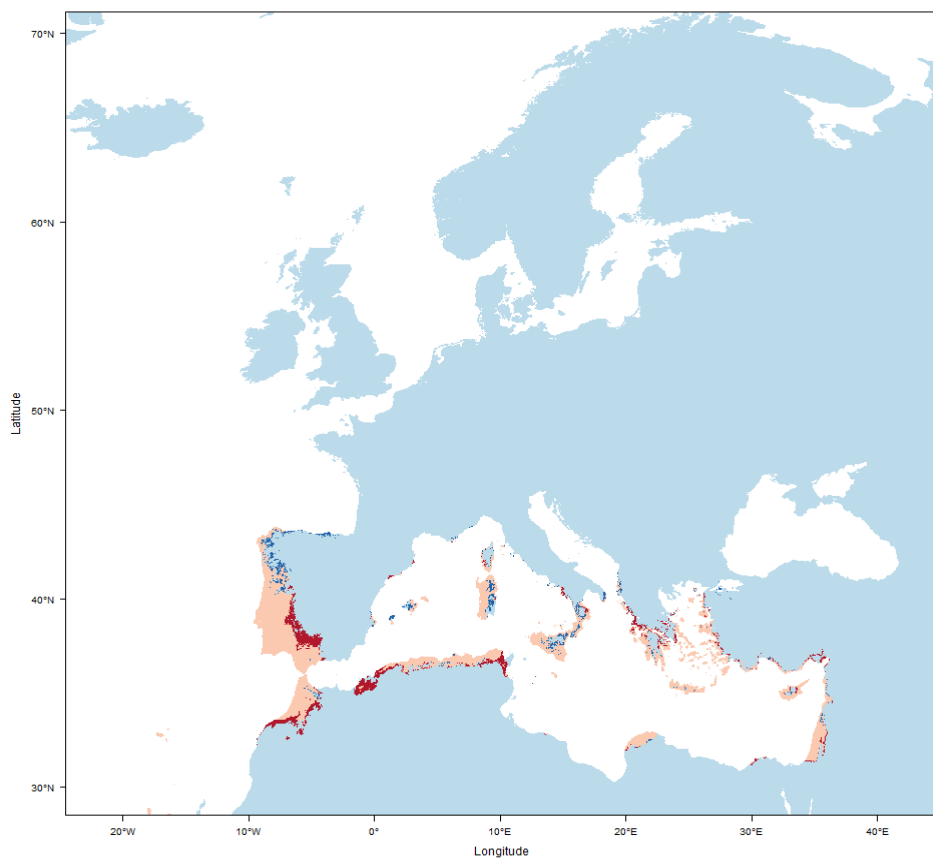
Appendix 25. Predicted distribution of *Asparagus officinalis* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



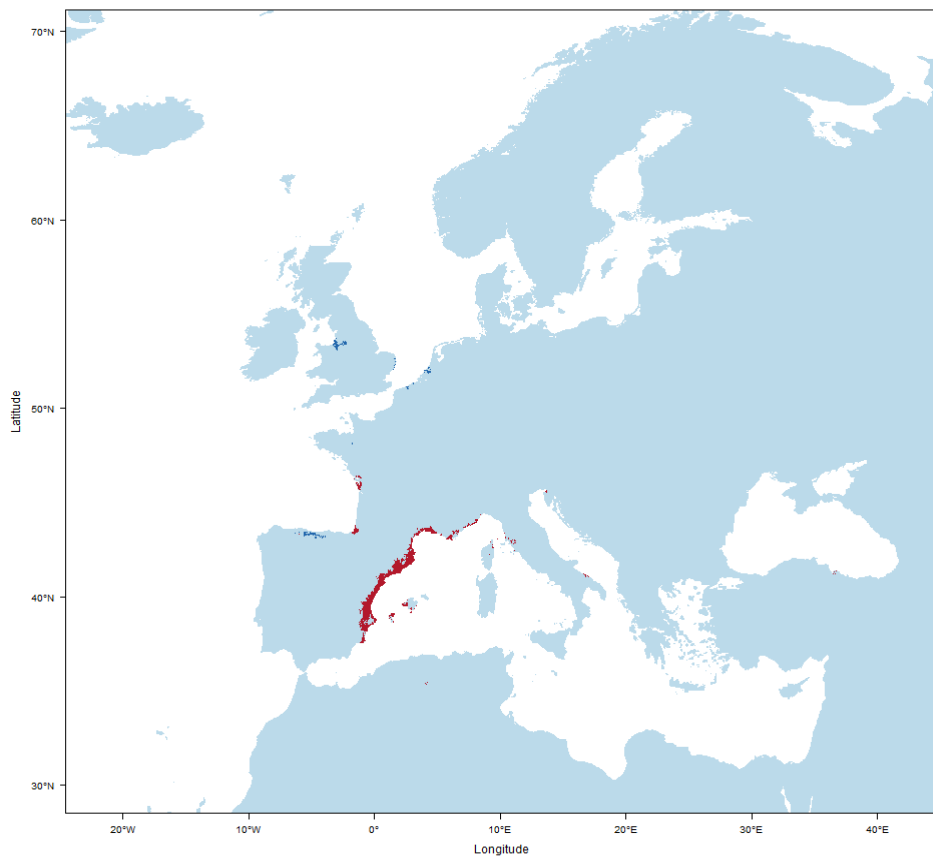
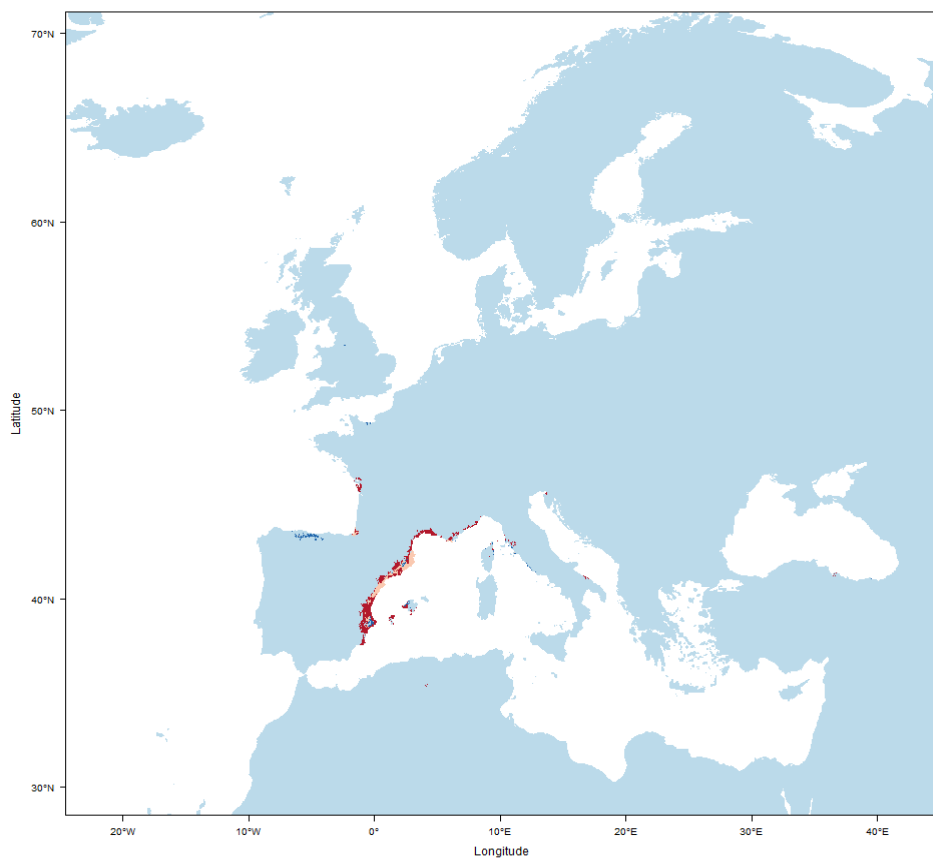
Appendix 26. Predicted distribution of *Asparagus aphyllus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Appendix 27. Predicted distribution of *Asparagus maritimus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

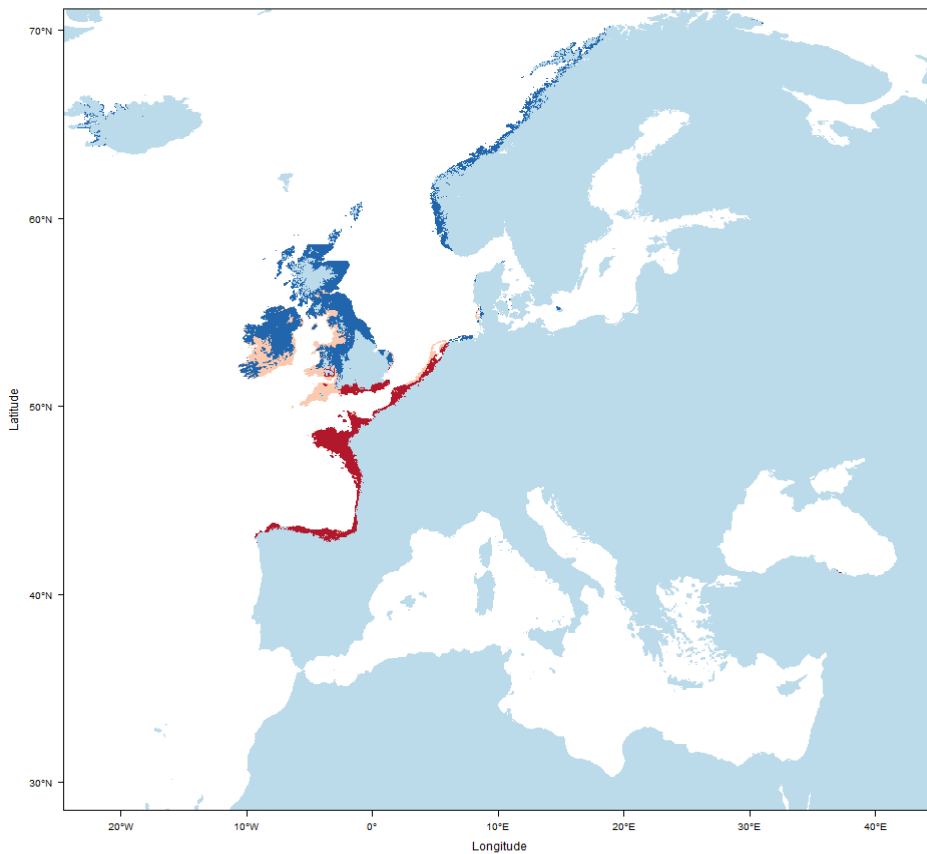
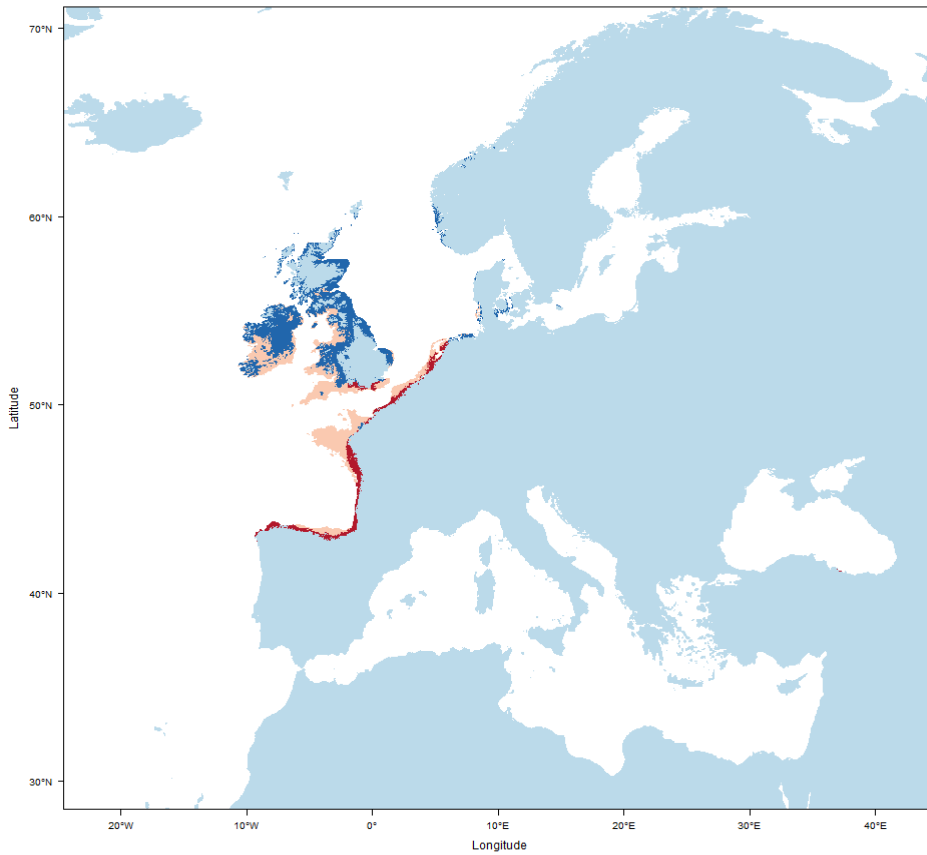
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Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

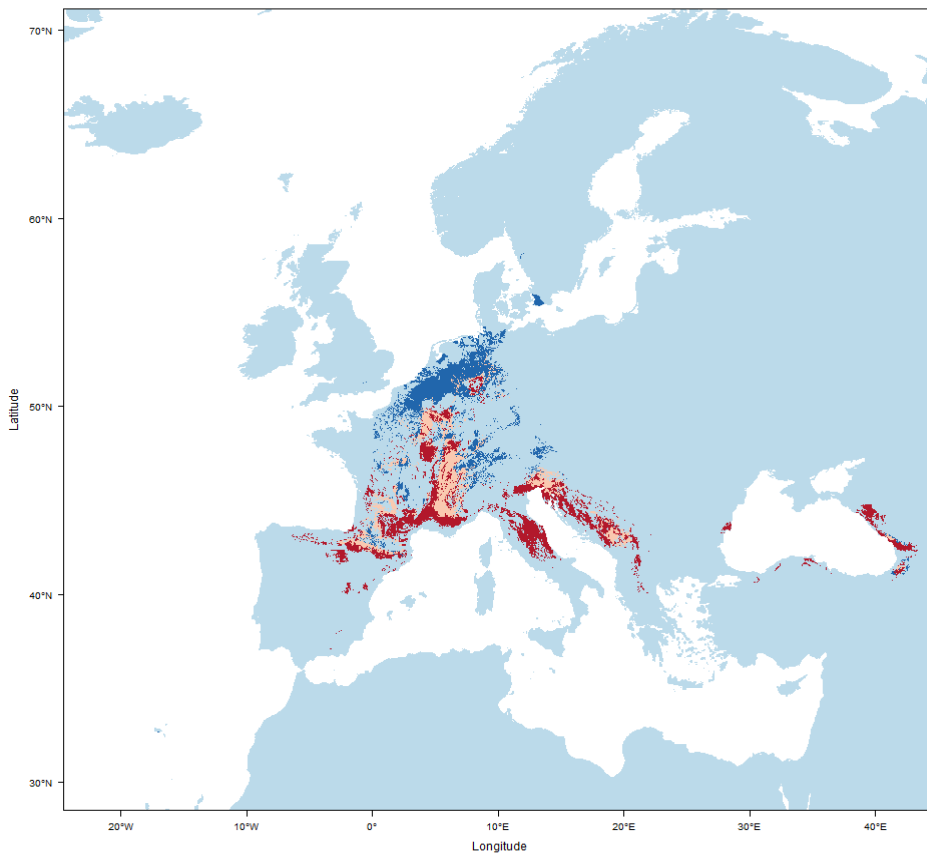
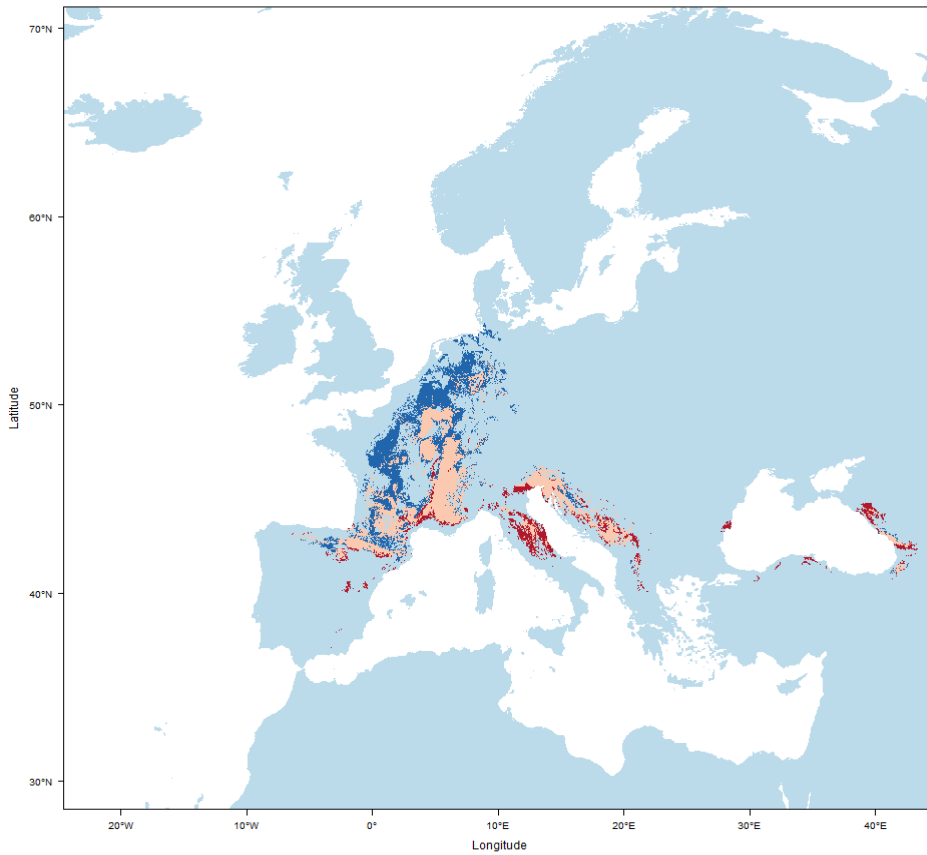
Appendix 28. Predicted distribution of *Asparagus prostratus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Appendix 29. Predicted distribution of *Asparagus tenuifolius* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

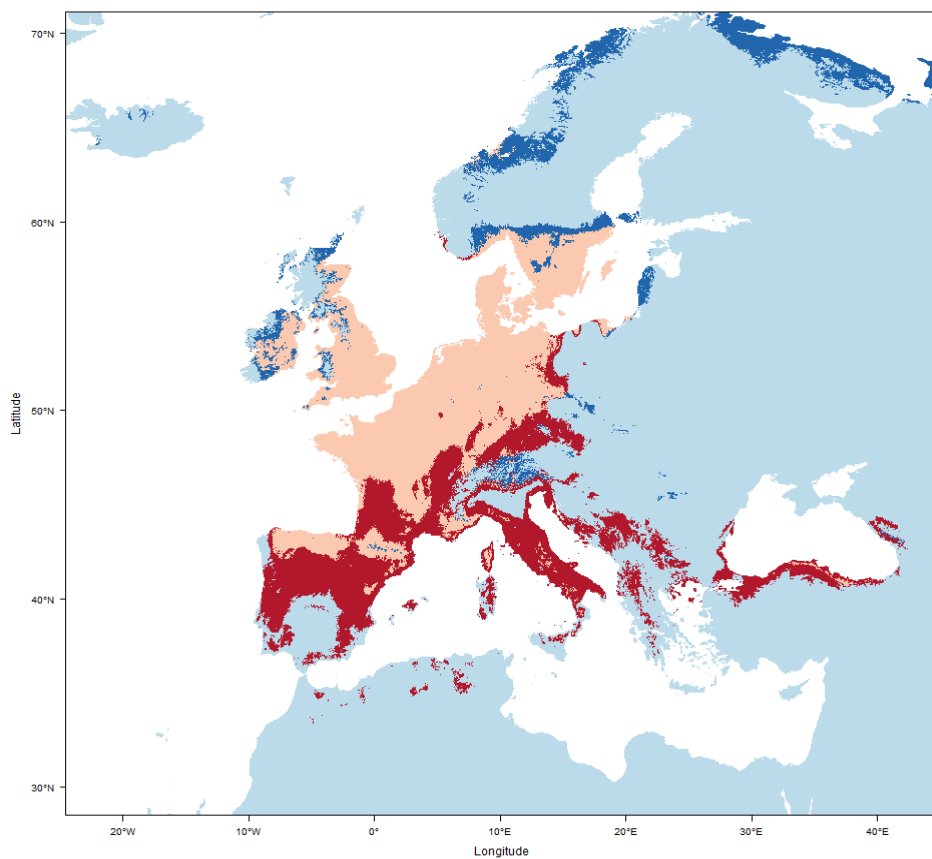
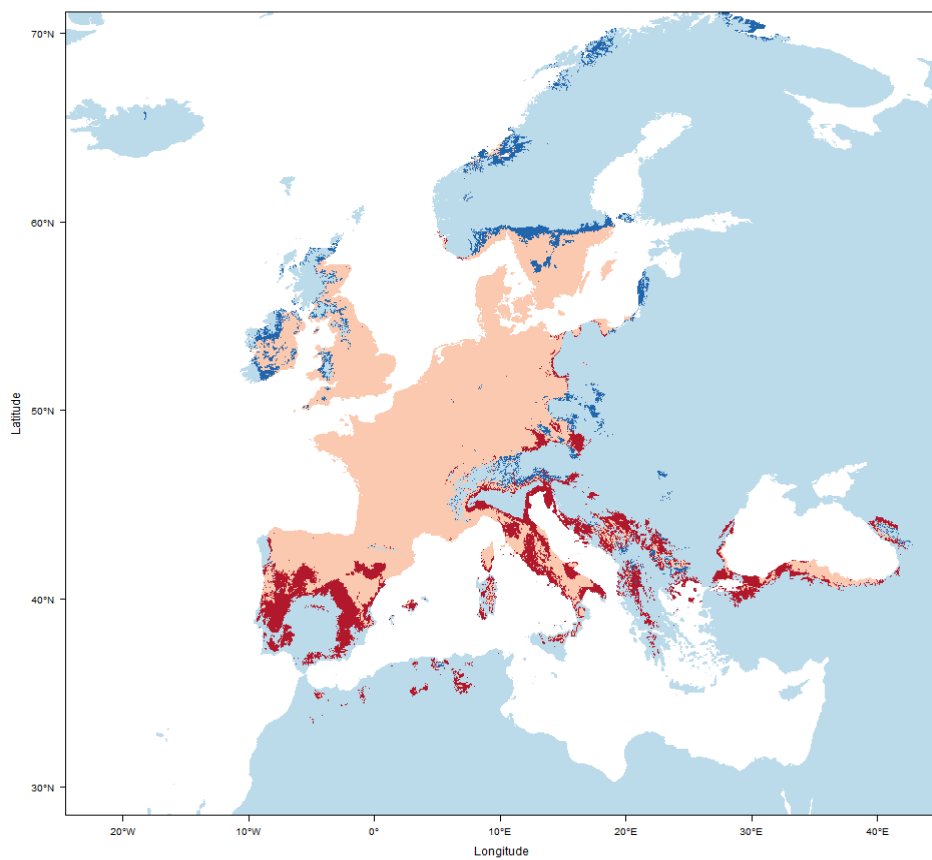
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

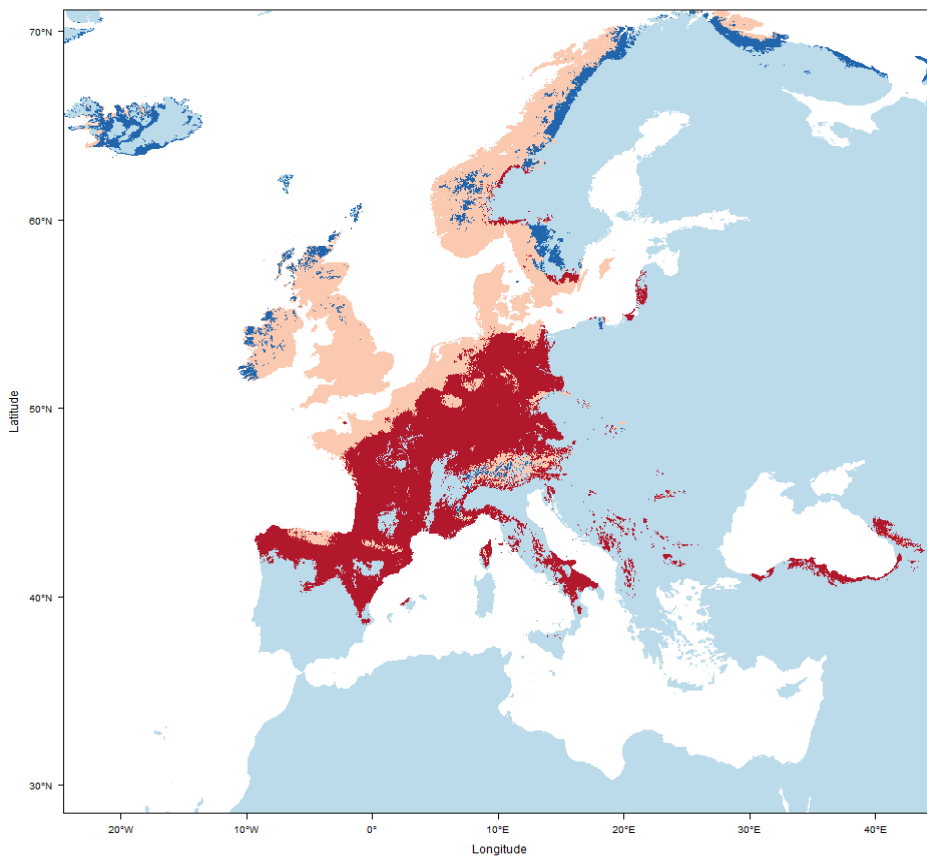
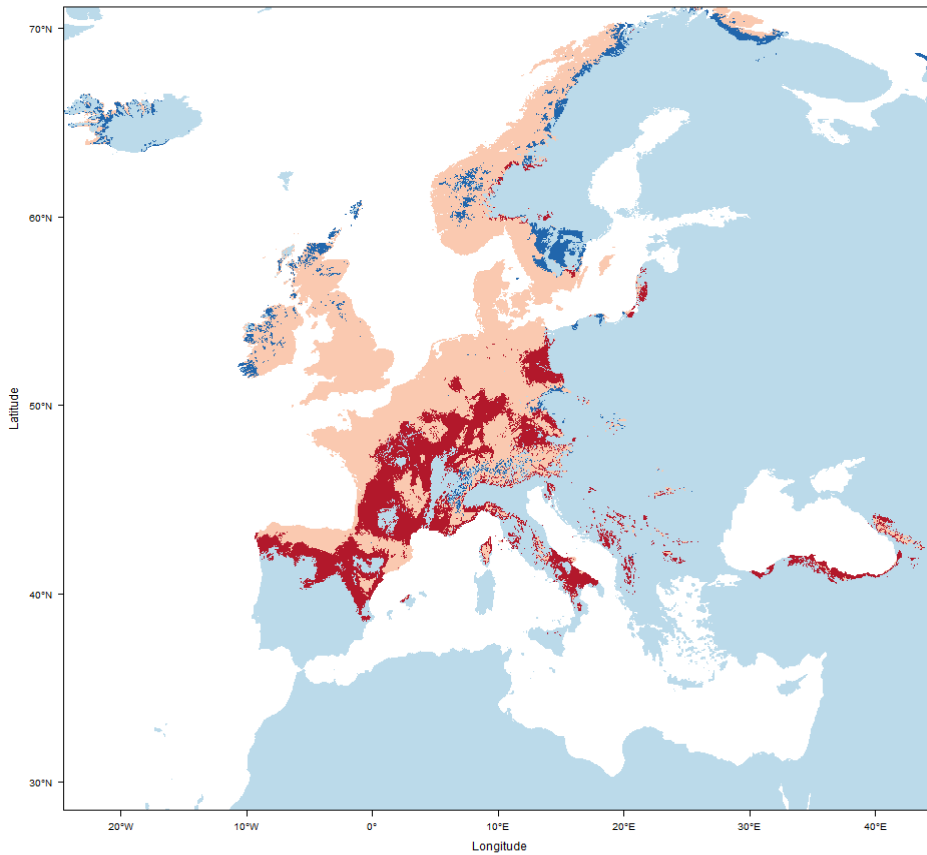
Appendix 30. Predicted distribution of *Valerianella locusta* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



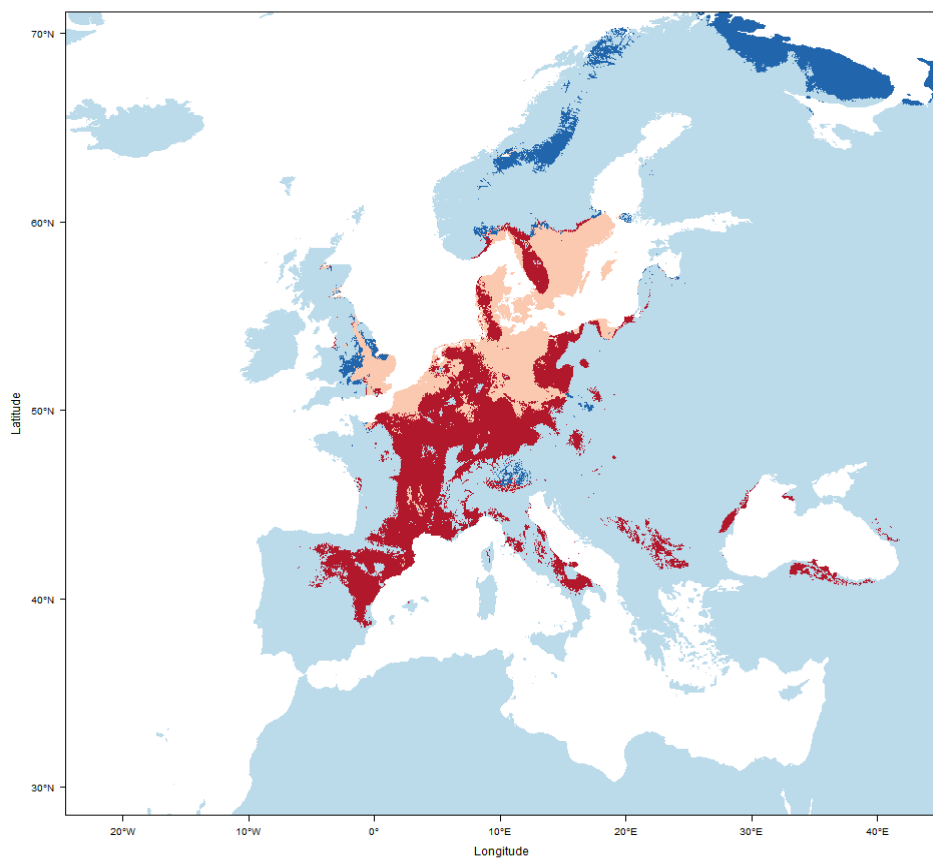
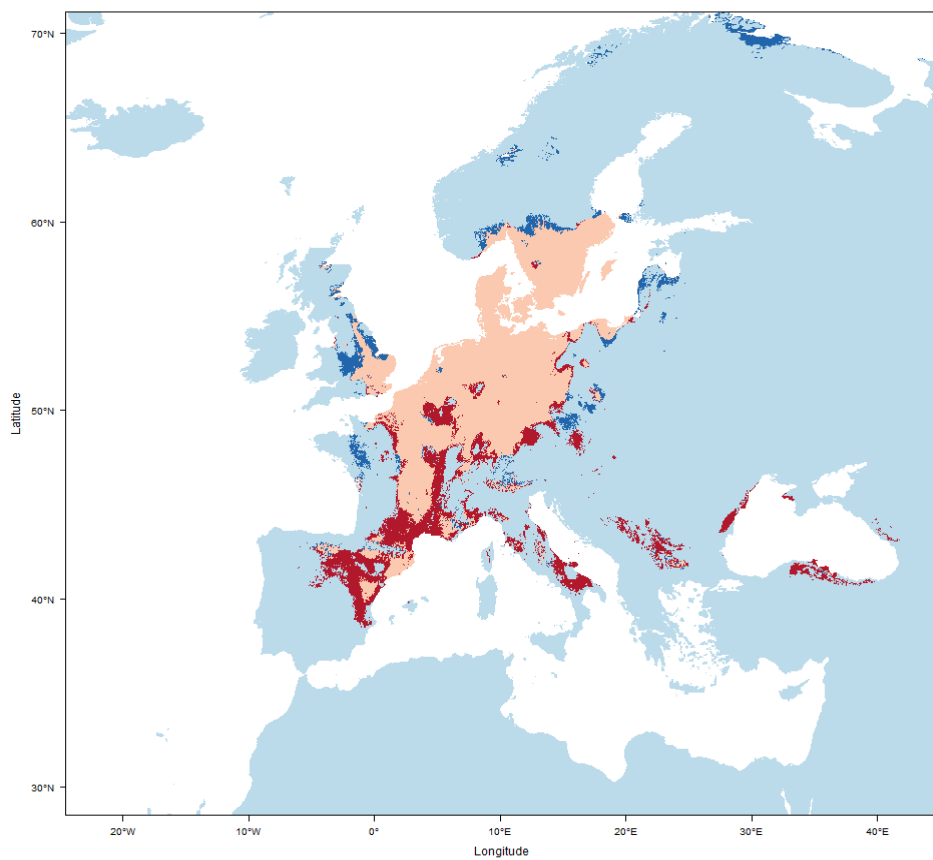
Appendix 31. Predicted distribution of *Taraxacum officinale* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



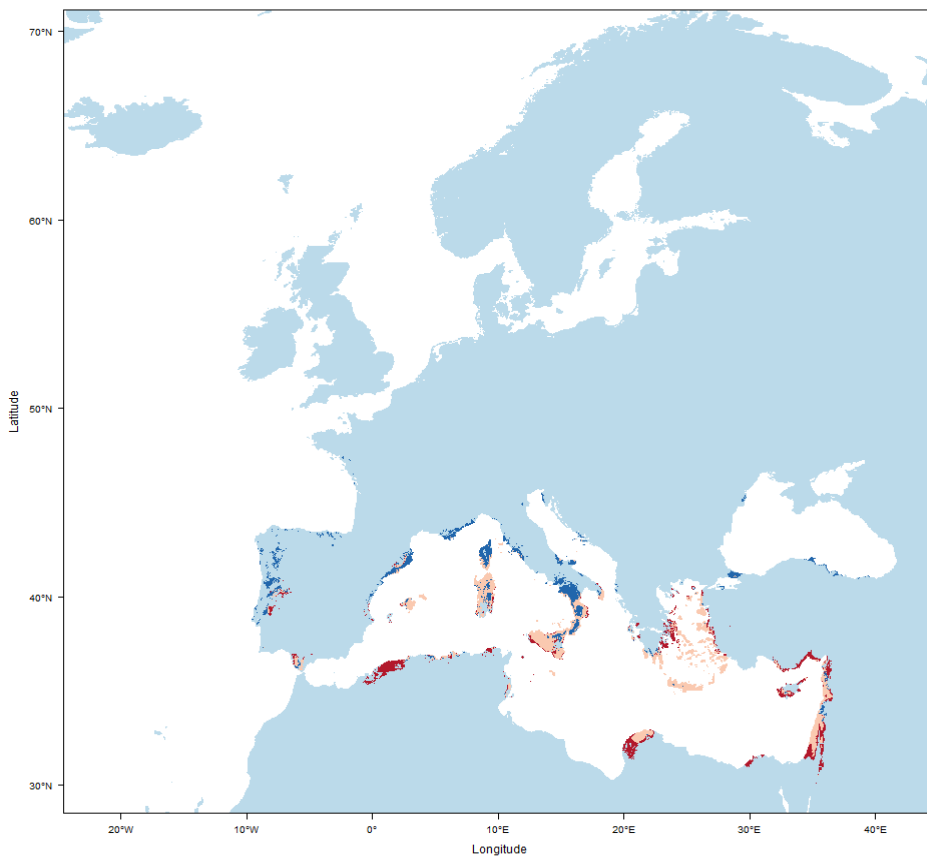
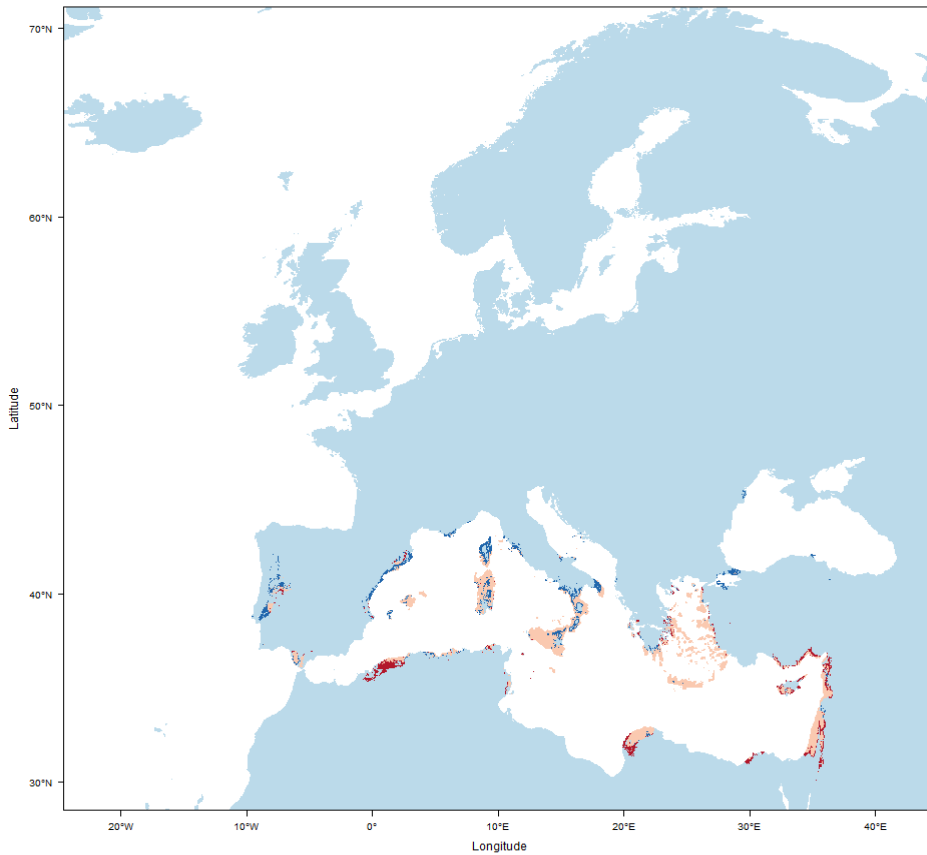
Appendix 32. Predicted distribution of *Atriplex hortensis* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



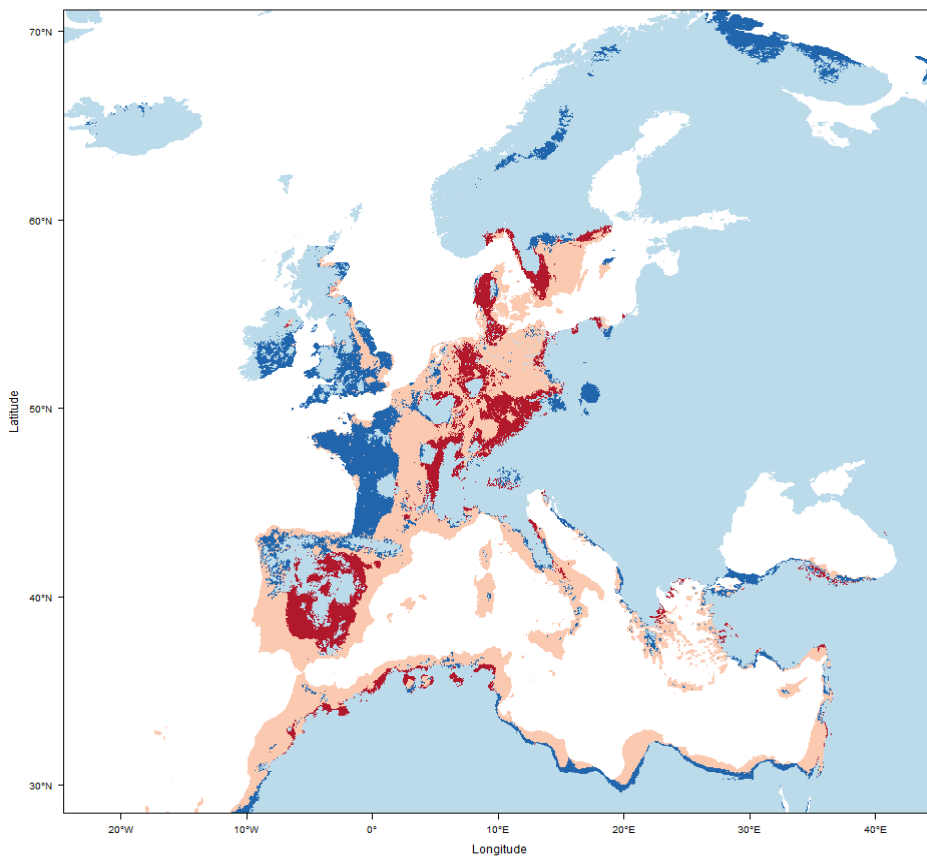
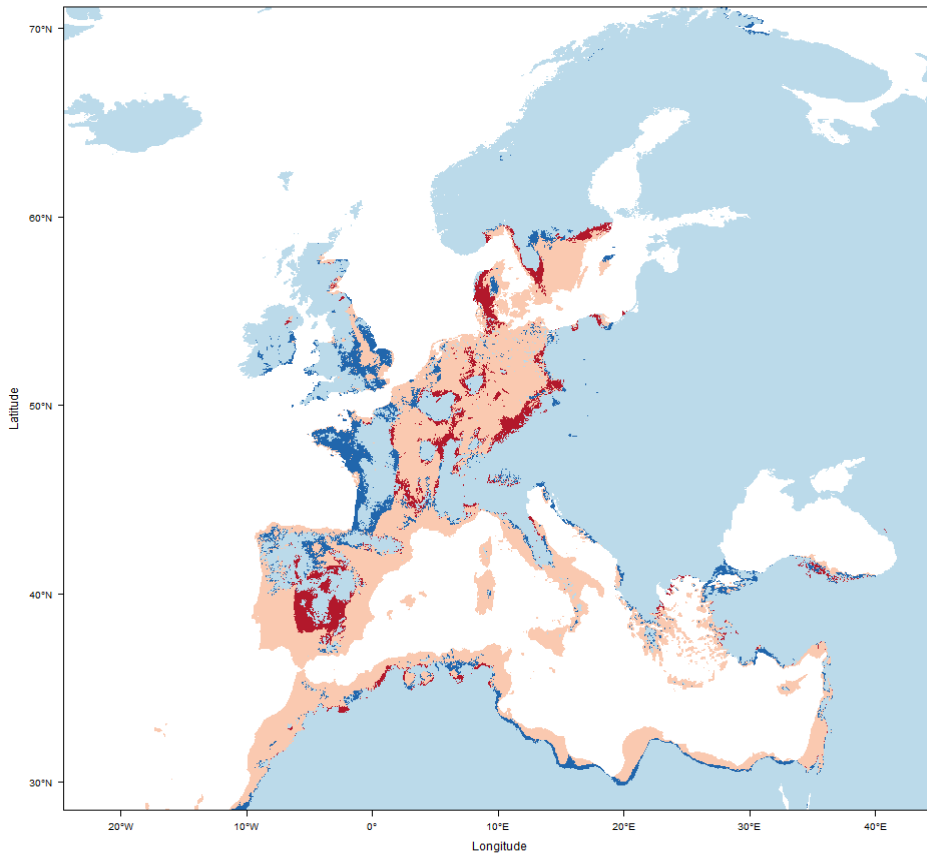
Appendix 33. Predicted distribution of *Lepidium spinosum* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



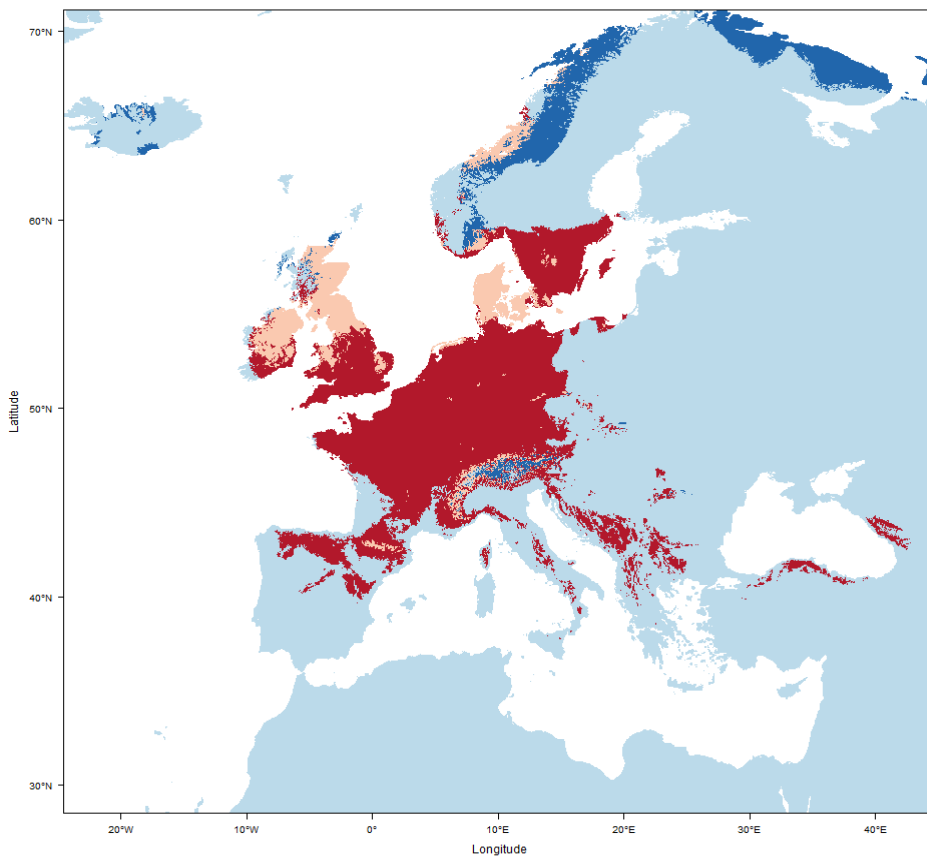
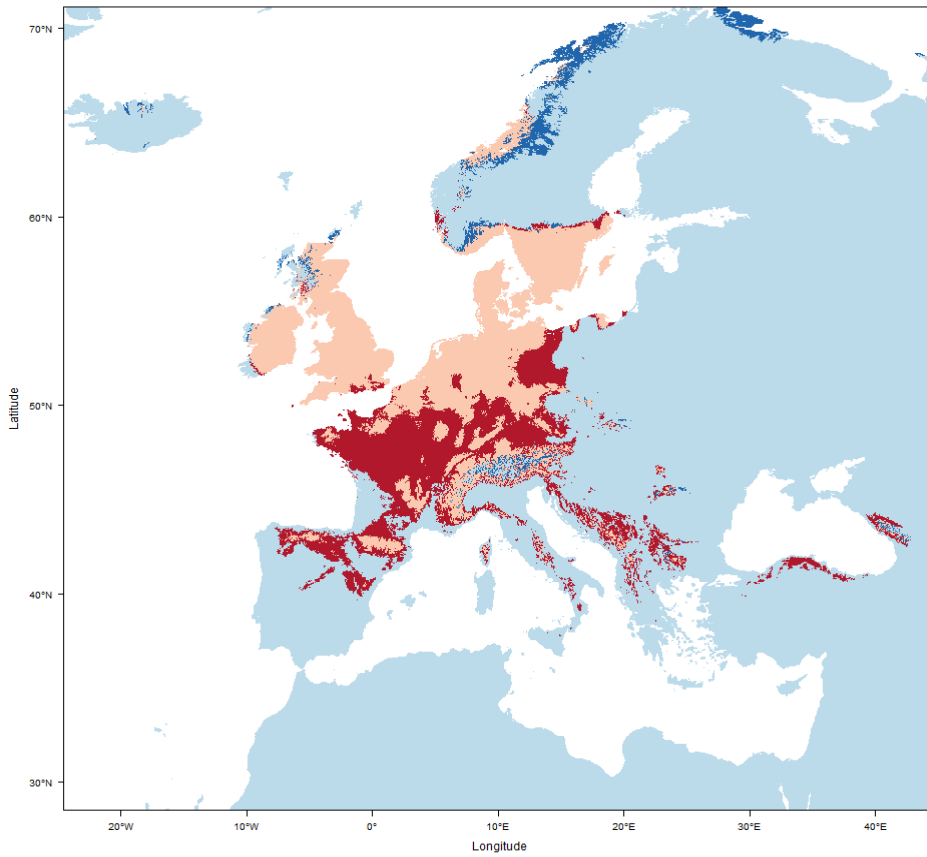
Appendix 34. Predicted distribution of *Glebionis coronaria* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



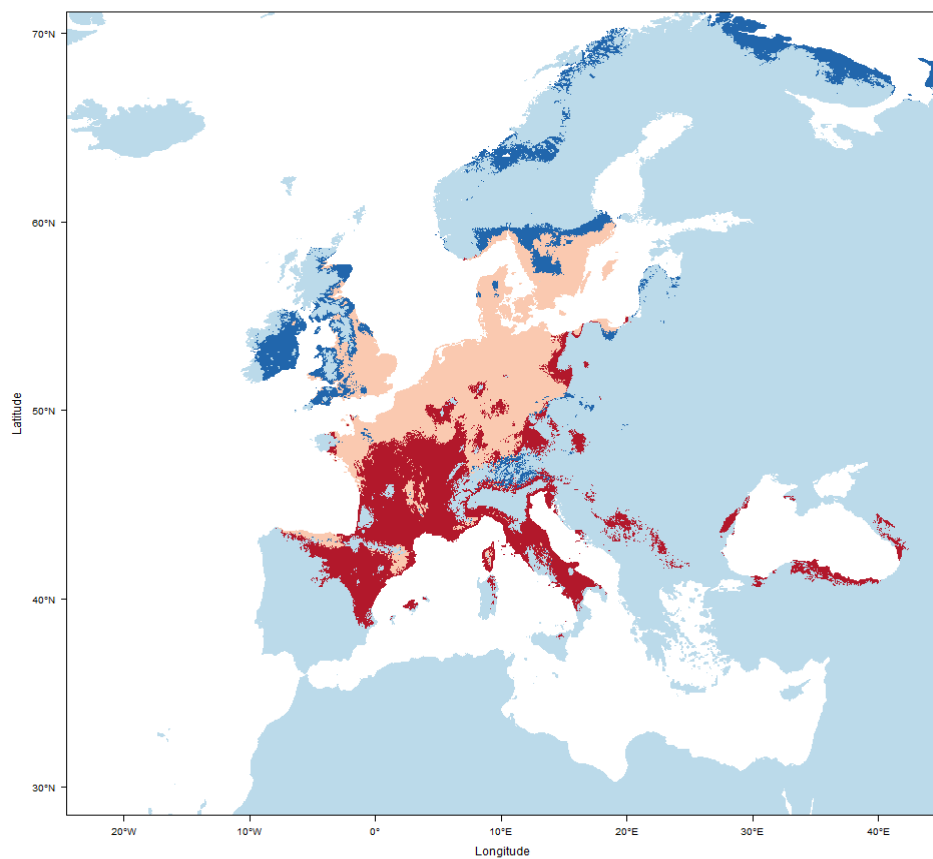
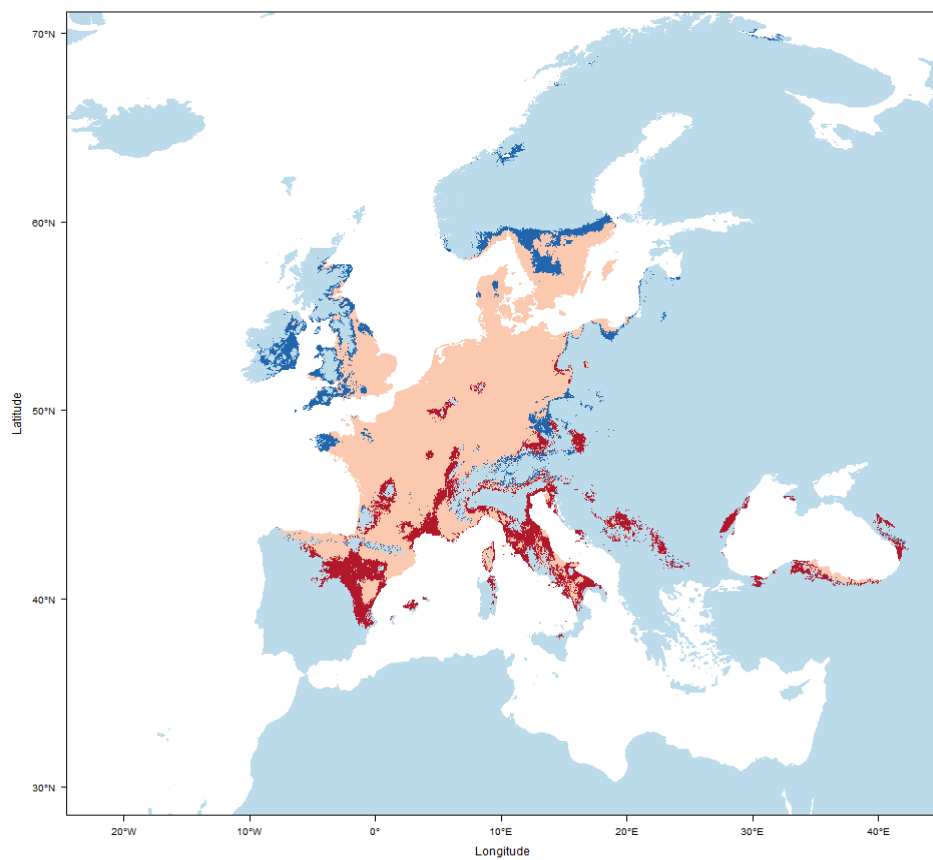
Appendix 35. Predicted distribution of *Blitum bonus-henricus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



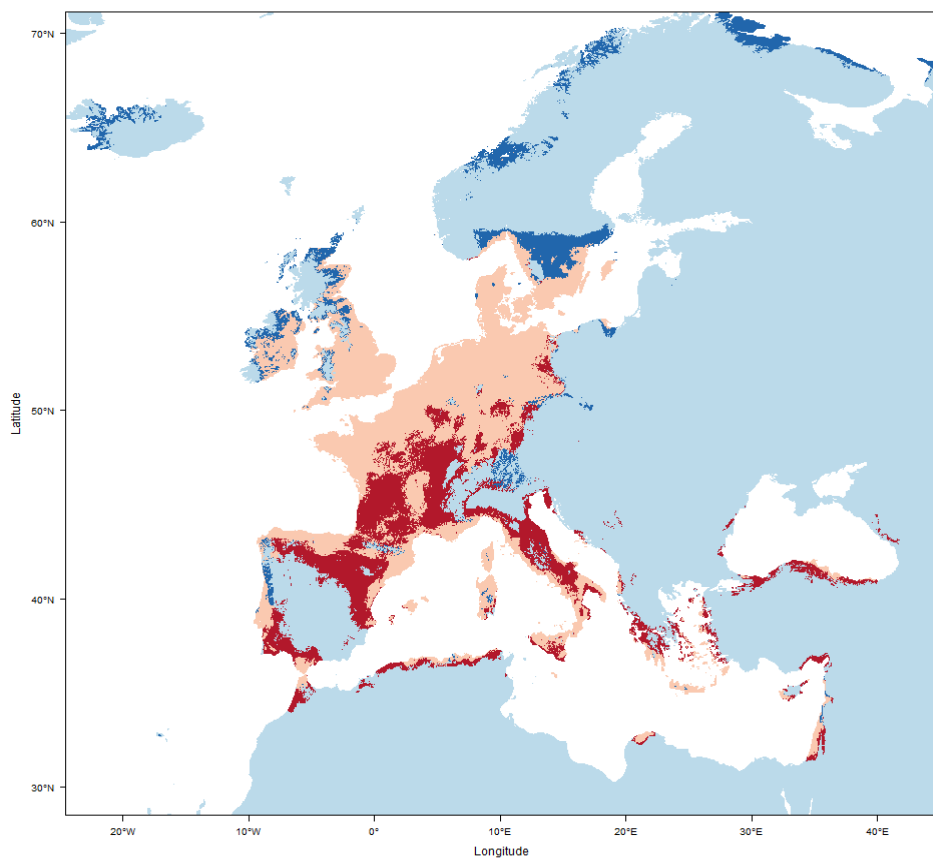
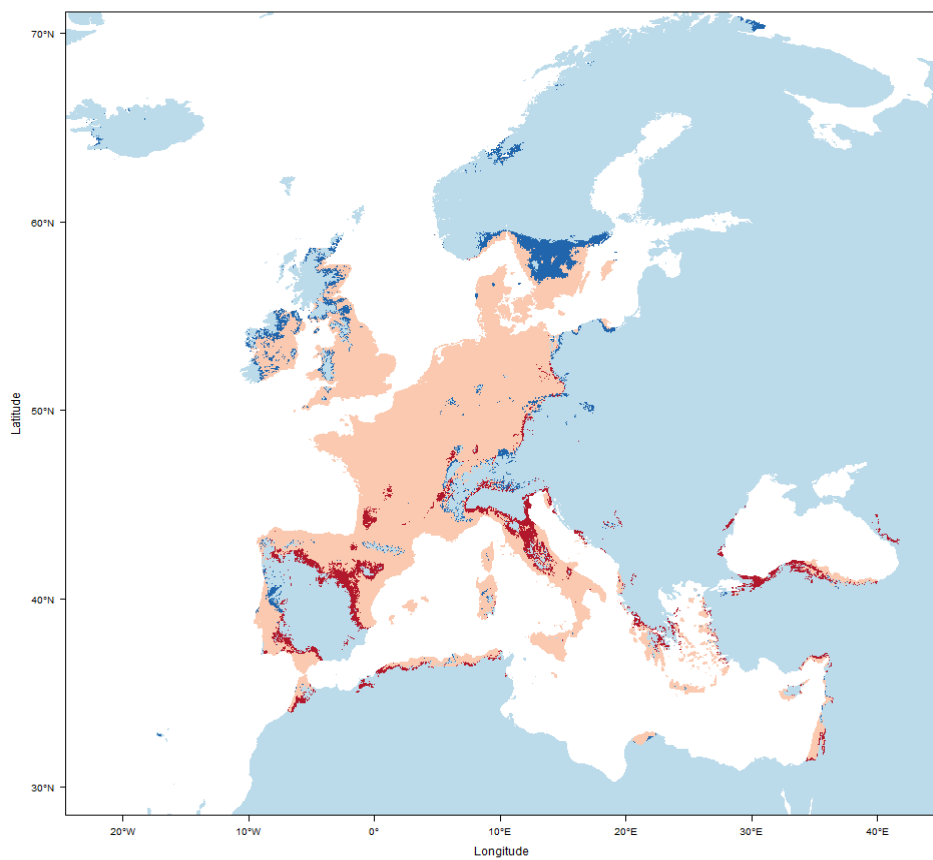
Appendix 36. Predicted distribution of *Diplotaxis tenuifolia* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



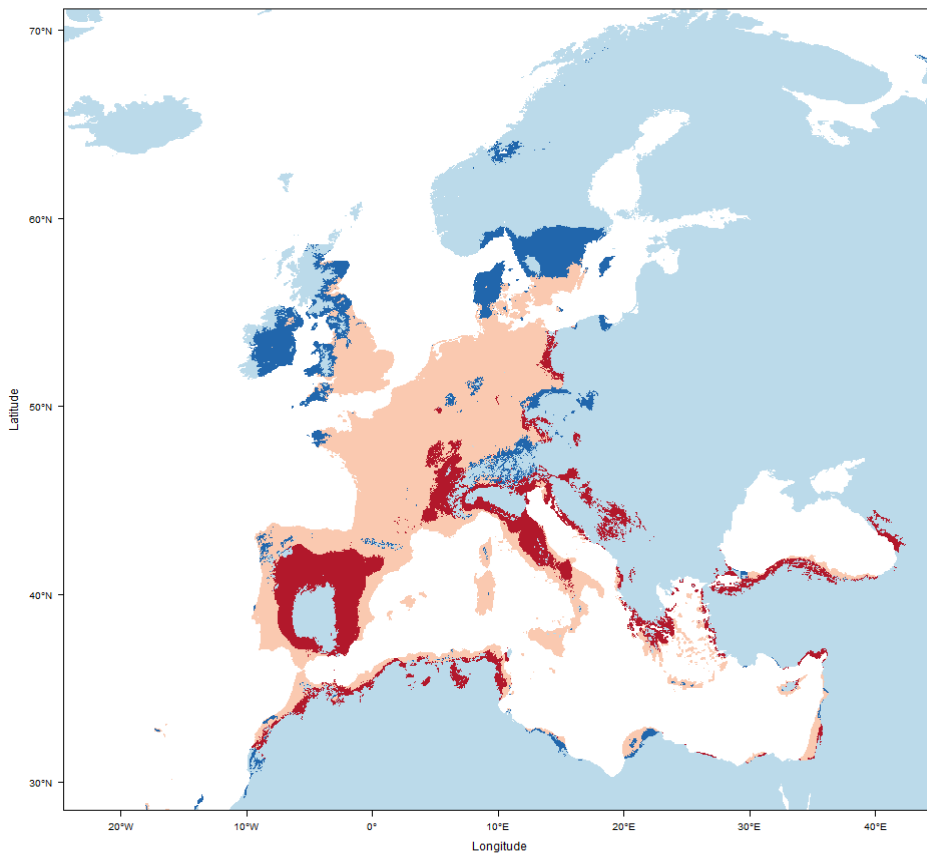
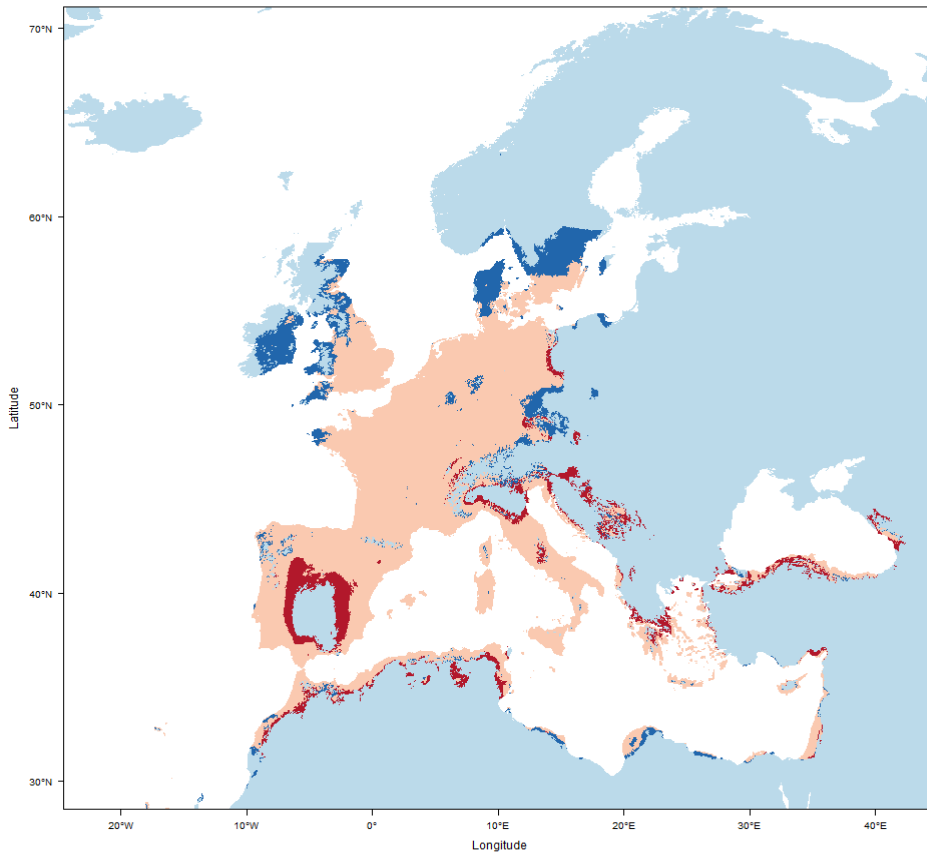
Appendix 37. Predicted distribution of *Brassica nigra* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



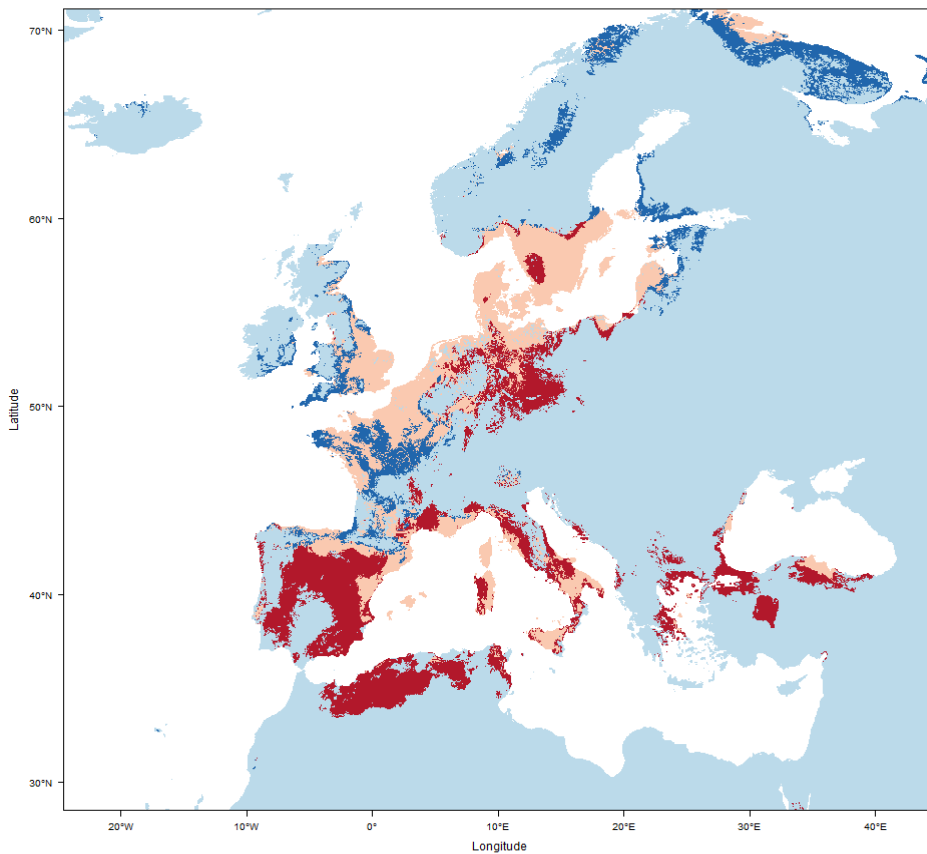
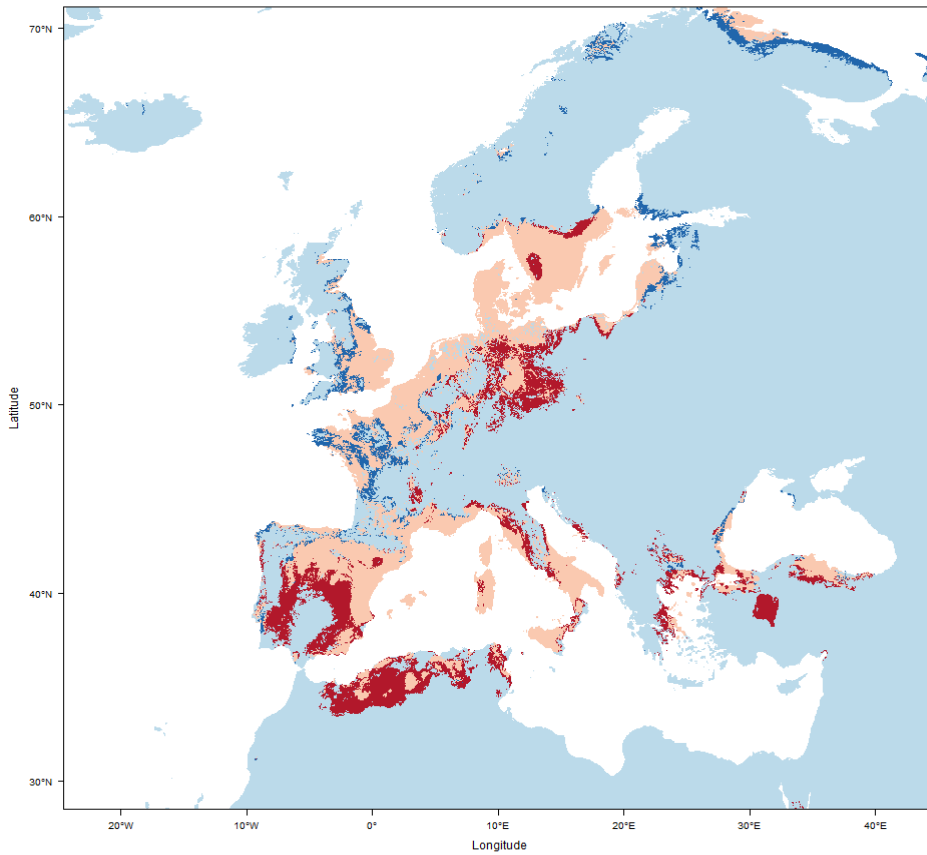
Appendix 38. Predicted distribution of *Portulaca oleracea* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



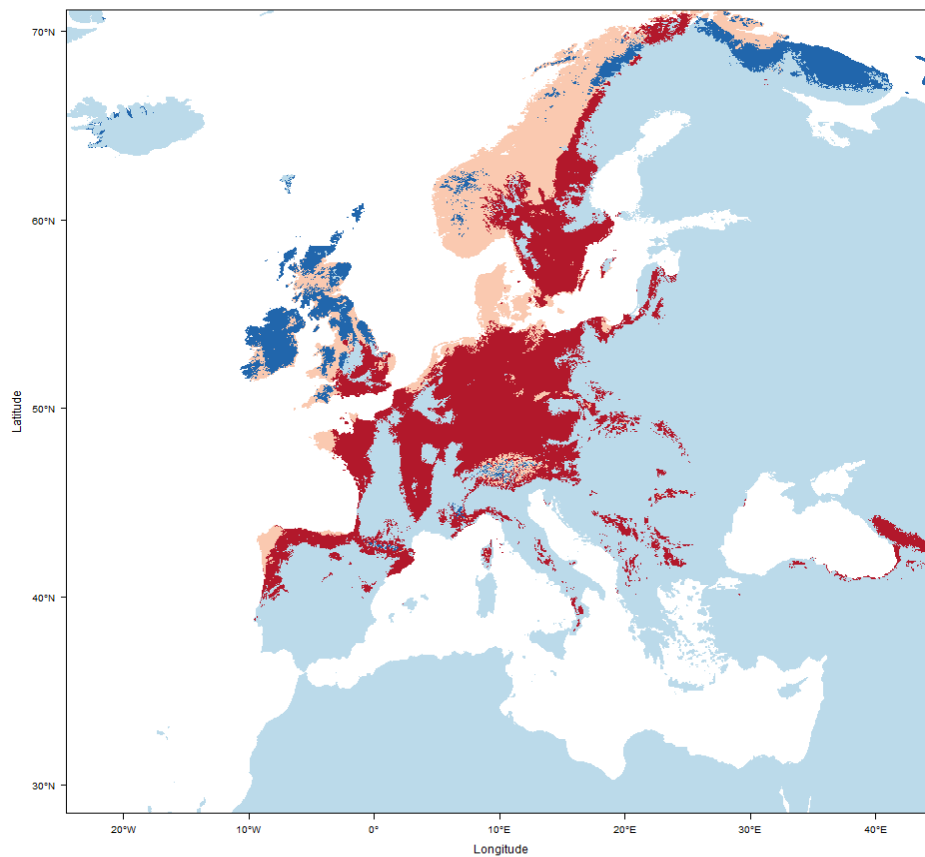
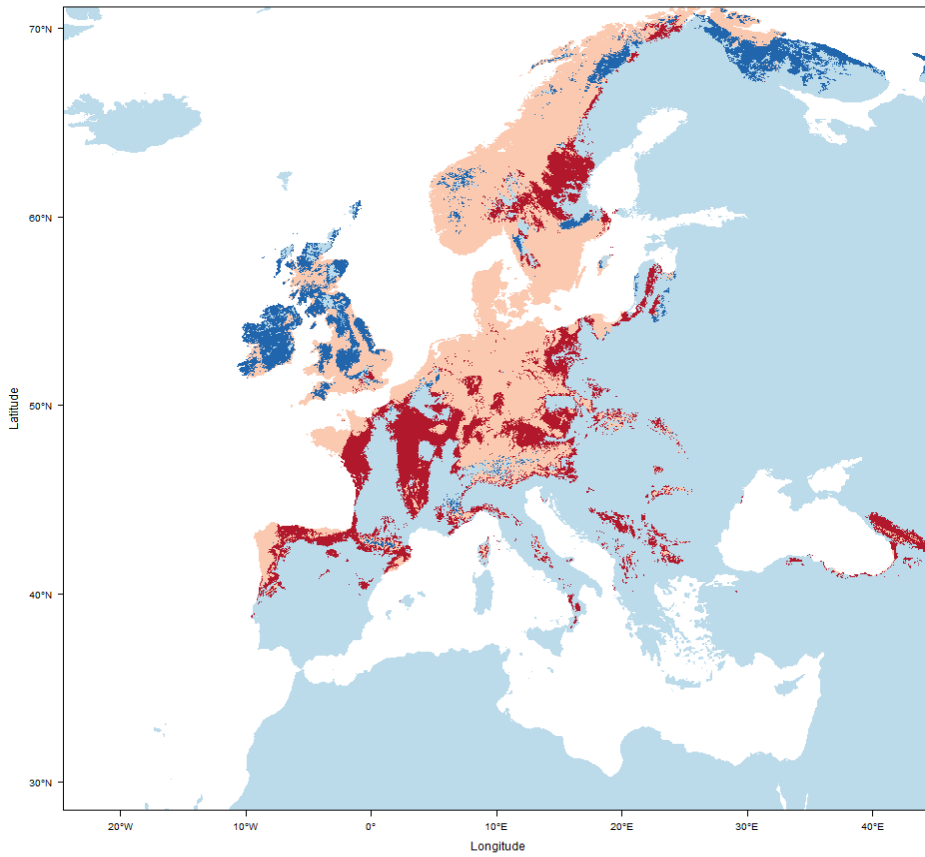
Appendix 39. Predicted distribution of *Eruca vesicaria* ssp. *sativa* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Appendix 40. Predicted distribution of *Rumex acetosa* ssp. *acetosa* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

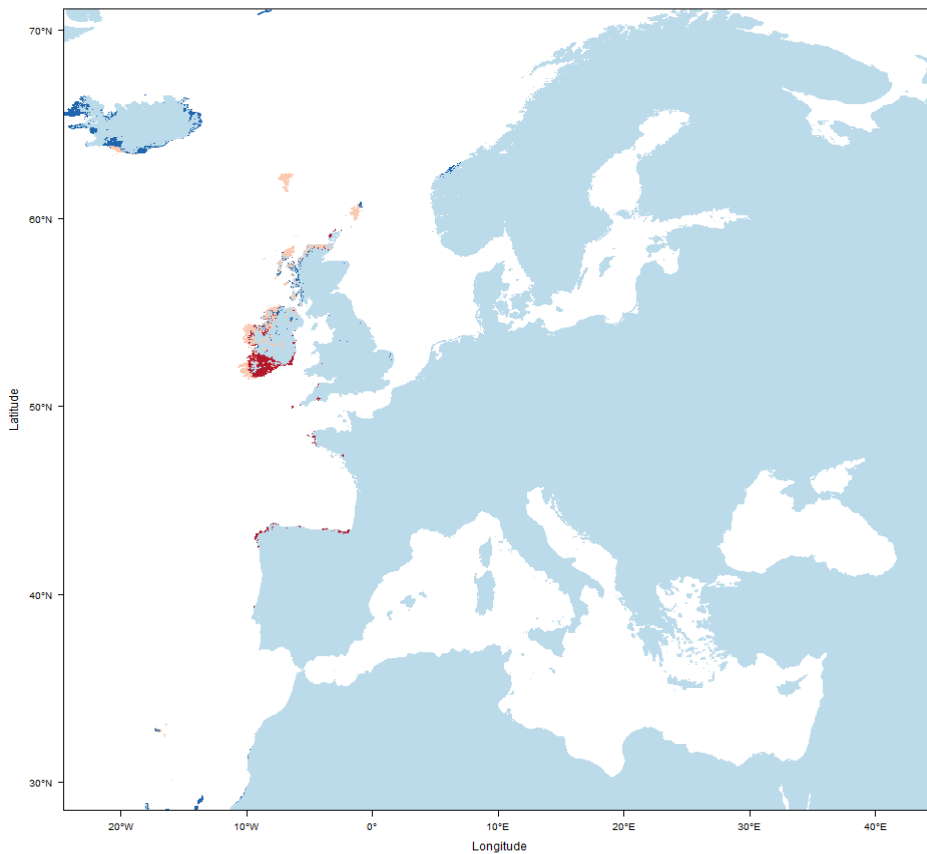
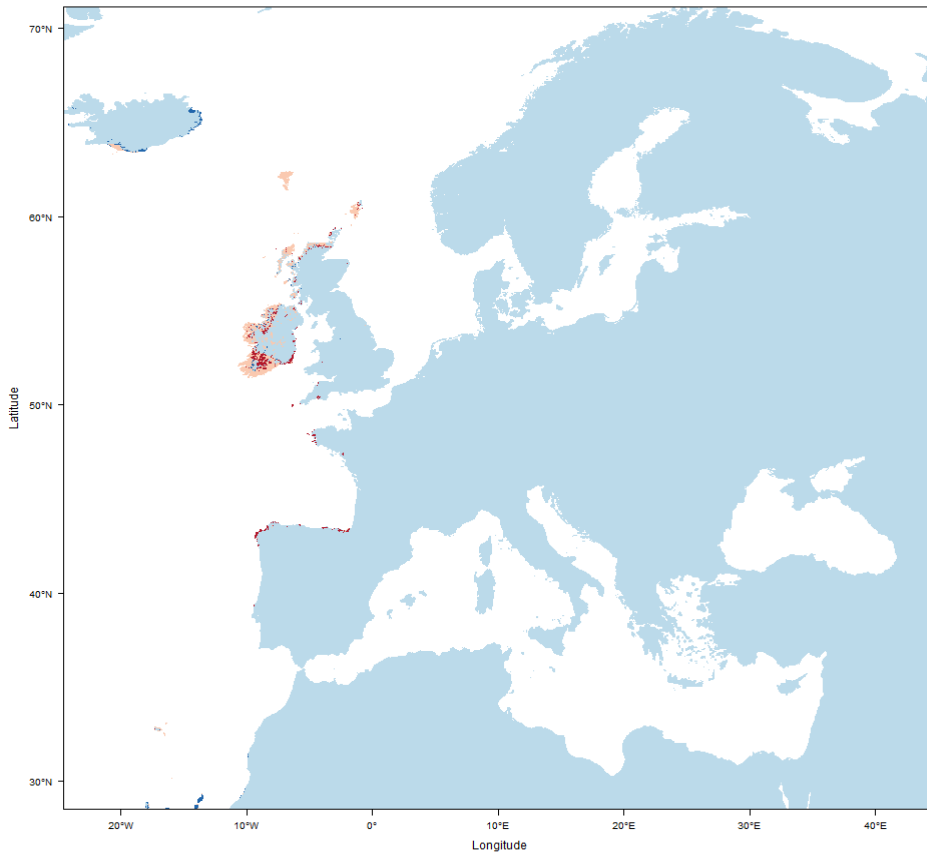
Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 41. Predicted distribution of *Rumex acetosa* ssp. *hibernicus* for 2070 according to climate change scenario RCP 2.6 (top) and RCP 8.5 (bottom) as compared to predictions for the present time.

Colours: light blue = stable absence, dark blue = range expansion, orange = stable presence, red = range reduction.



Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 42. Percentage range change predicted with species distribution modelling for the selected crop wild relatives of leafy vegetables in the European region for the year 2070 according to climate change scenario RCP 2.6 and RCP 8.5. Results for the European region assuming unrestricted migration are compared to those of a model with no migration and to those for the Natura 2000 network of European protected sites.

Species	RCP 2.6			RCP 8.5		
	EUR unrestricted migration	EUR no migration	Natura 2000 unrestricted migration	EUR unrestricted migration	EUR no migration	Natura 2000 unrestricted migration
<i>Asparagus aphyllus</i>	-9.31	-17.64	-4.21	-21.72	-39.85	-13.50
<i>Asparagus maritimus</i>	-58.18	-70.93	-68.96	-87.72	-100.00	-97.01
<i>Asparagus officinalis</i>	-4.47	-15.11	-11.51	-11.62	-38.19	-38.88
<i>Asparagus prostratus</i>	73.49	-22.39	36.18	86.14	-55.66	31.08
<i>Asparagus tenuifolius</i>	42.42	-23.34	57.99	-11.73	-62.87	-40.06
<i>Atriplex hortensis</i>	-14.95	-26.34	-27.84	-37.83	-63.32	-64.41
<i>Blitum bonus-henricus</i>	-30.81	-40.17	-44.77	-59.84	-82.25	-78.02
<i>Brassica nigra</i>	0.01	-9.61	-3.99	-16.26	-33.50	-34.82
<i>Cichorium intybus</i>	-3.22	-15.62	-8.35	-10.02	-36.93	-32.20
<i>Cichorium pumilum</i>	11.58	-7.65	1.80	24.55	-14.30	9.70
<i>Cichorium spinosum</i>	74.98	-5.86	70.17	150.83	-13.25	133.91
<i>Cynara algarbiensis</i>	-55.54	-57.65	-36.84	-99.71	-99.92	-99.78
<i>Cynara baetica</i>	-57.56	-60.88	-57.71	-93.02	-94.16	-95.06
<i>Cynara cardunculus</i> ssp. <i>cardunculus</i>	-1.37	-14.75	1.98	13.41	-14.60	17.22
<i>Cynara cardunculus</i> ssp. <i>flavescens</i>	-12.67	-31.74	-13.89	-74.43	-85.76	-84.36
<i>Cynara humilis</i>	-15.78	-26.01	-20.88	-56.49	-63.74	-53.07
<i>Cynara tournefortii</i>	-11.45	-32.63	-15.22	-66.74	-81.21	-80.93
<i>Diplotaxis muralis</i>	-7.30	-18.70	-17.62	-23.93	-47.75	-51.01
<i>Diplotaxis tenuifolia</i>	-5.89	-19.08	-18.92	-19.20	-46.03	-50.09
<i>Eruca vesicaria</i> ssp. <i>sativa</i>	-17.06	-31.05	-20.19	-19.15	-48.10	-34.26
<i>Glebionis coronaria</i>	4.84	-13.34	-2.50	12.23	-23.68	-3.02
<i>Lactuca saligna</i>	5.41	-15.08	9.04	-17.30	-40.05	-19.22
<i>Lactuca serriola</i>	-8.11	-16.00	-8.65	-17.39	-37.95	-32.58
<i>Lepidium spinosum</i>	6.34	-19.29	43.48	4.91	-34.08	65.14
<i>Portulaca oleracea</i>	4.54	-11.33	-0.64	-8.21	-27.52	-18.16
<i>Rumex acetosa</i> ssp. <i>acetosa</i>	-13.46	-30.65	-25.90	-45.70	-64.28	-59.66
<i>Rumex acetosa</i> ssp. <i>hibernicus</i>	-12.56	-24.72	-12.05	19.69	-35.63	-6.37
<i>Taraxacum officinale</i>	-19.05	-27.78	-29.76	-38.66	-50.82	-59.71
<i>Valerianella locusta</i>	-9.70	-18.74	-17.89	-22.99	-42.42	-45.08

Consequences of climate change for conserving leafy vegetable CWR in Europe (CCLEAFY)
Appendices to the Activity Report

Appendix 43. Number of accessions (wild, weedy or landrace) of the selected crop wild relatives of leafy vegetables, originating from countries within the European region and included in the EURISCO database.

	<i>Asparagus aphyllus</i>	<i>Asparagus maritimus</i>	<i>Asparagus officinalis</i>	<i>Asparagus prostratus</i>	<i>Asparagus tenuifolius</i>	<i>Atriplex hortensis</i>	<i>Brassica nigra</i>	<i>Chenopodium bonus-henricus</i>	<i>Cichorium intybus</i>	<i>Cynara cardunculus</i>	<i>Cynara humilis</i>	<i>Cynara tournefortii</i>	<i>Diploaxis muralis</i>	<i>Diploaxis tenuifolia</i>	<i>Erica vesicaria/ Erica sativa</i>	<i>Glebionis coronaria/ Chrysanthemum coronarium</i>	<i>Lactuca saligna</i>	<i>Lactuca serriola</i>	<i>Lepidium spinosum</i>	<i>Portulaca oleracea</i>	<i>Rumex acetosa</i>	<i>Taraxacum officinale</i>	<i>Valeriana locusta</i>	Total
ALB						9			3						3			1			1			17
ARM			5														4	20			1			30
AUT			3			7		1	1									4		2				18
AZE			3			1			18									6		1	9			38
BEL							1							1				12						14
BGR					1	1	10							1	1		3	13			1	1		32
BIH									1													1		2
CHE																		6						6
CYP															9	1		1		1				12
CZE									4									135						139
DEU			12			7	4		66				2					92		7	48		8	246
DNK			10			1	4	1	9					1				8						34
DZA													8											8
EGY																		10						10
ESP		1	20			12	7	4	21	98		1	1	2	114	5	3	31		3	7	13	343	
FIN								1																1
FRA							10		5						1		4	88						110
GBR			1														3	28						32
GEO						2			1								1	9						13
GRC							23		2	1					3	3	23				1			56
HRV						1	2		32						4			4		1	14	20	4	82
HUN			8			25	3		2									66			27			131
IRL				4			4																	8
ISR	8						30								42	16	61	167	1					325
ITA	2		1		3	1	16	1	88	33			3	10	23		32	71						284
LBY															3						2			5
MAR							1								7									8
MDA						1																		1
MKD						1																		1
MLT																		1						1
NLD							2											31					1	34
NOR			3						1									3						7
POL						1	1		5									7			9			23
PRT			2				5		12	4	2				1		3	11		7				47
ROU						33		1	1									5		1	1	6		48
RUS			1				3						1				2	24			4			35
SRB														1										1
SVK			9			1											1	13			1			25
SVN																		9						9
SWE			3						3				1					82						89
SYR									1						1			6		5				13
TUN													1		4									5
TUR							5							3	1	2	3	27	1					42
UKR			3			1	3		5						3			3		1	15	1		35
YUG						1	2																	3