Supplementary online figures for the manuscript "Weak founder effects but significant spatial genetic imprint of recent contraction and expansion of European beech populations", by Tonya A. Lander Etienne K Klein, Anne Roig, and Sylvie Oddou-Muratorio.

Contents

Figure S1: Location of the studied plots in the climatic space explored by European beech over its distribution range.

The climatic space is represented as the variation of temperature and summer precipitation over beech distribution area, extracted for the SAFRAN database for the period 1958-2015 (collected on a 8 km2 grid represented by grey dots). Each black triangle represents the average climate recorded since 2007 with HOBO weather stations for the plot W_257-2 (N1, 1020 m), W_N2 (N2, 1140 m) and W_384 (N4, 1340 m a.s.l.).

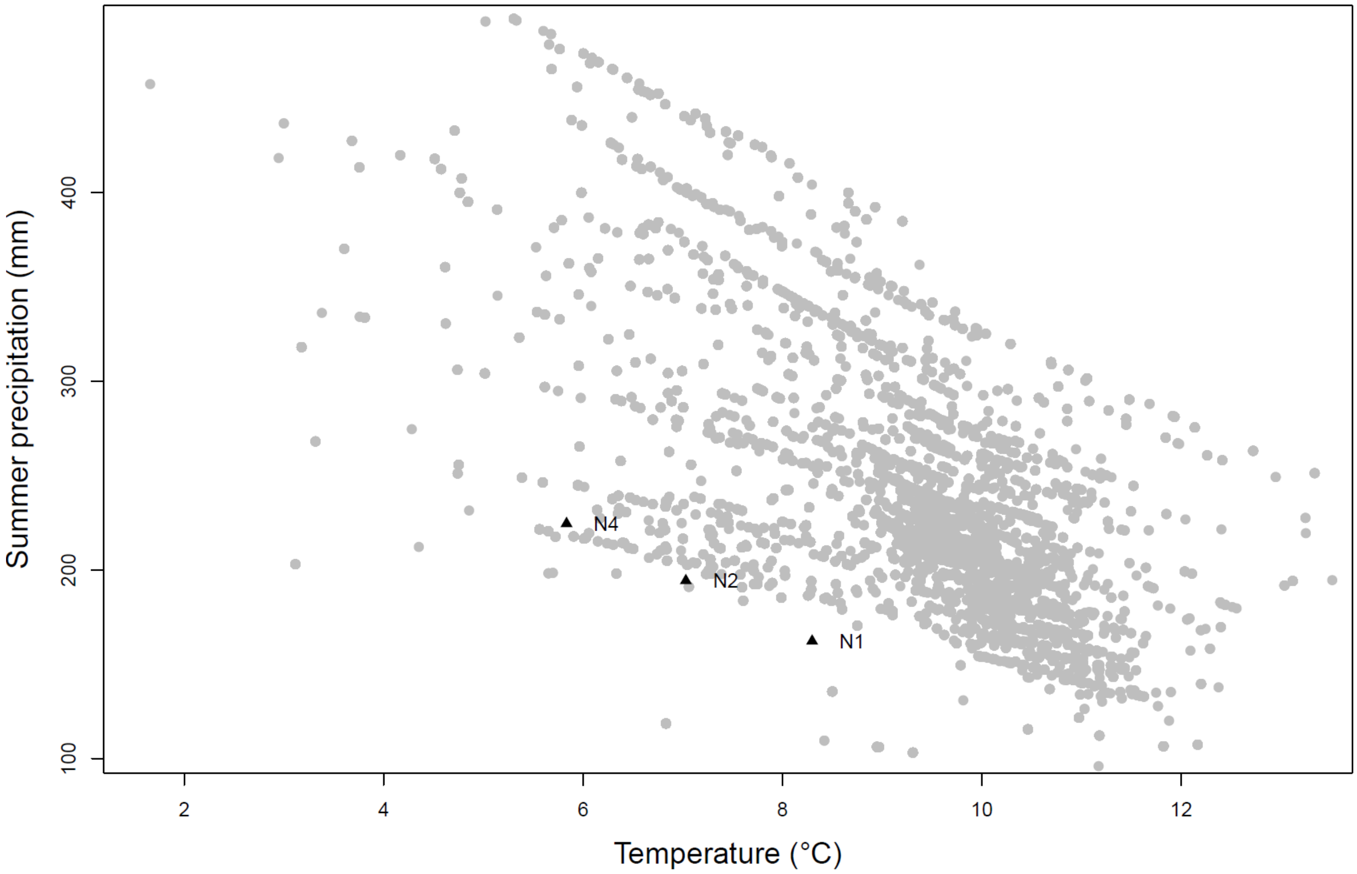


Table S1: Geographical location and information on the 71 sampled plots.

N : number of sampled trees. **Ng**: number of genet kept for analyses. **Long** and **Lat**: the longitude and latitude in Lambert 93 coordinate system. **Alti**: altitude (in m). **Age**: estimated maximal age of the stand. **MaxCirc** and **MinCirc**: maximal and minimal circumference (in mm) within the plot. **distNE, distNW, distSE, distSW**: weighted least-cost distances (in m) from each plot to the North-East, North-West, South-East and South-West refuges, respectively.

Plot	Region	N	Ng	Long	Lat	Alti	Age	Max Circ	Min Circ	distNE	distNW	distSE	distSW
E_132	NE_REF	30	30	883758	6344256	1396	189	1310	230	148.8	3192.1	3022.1	1317.0
E_168	NE_REF	30	30	884283	6343887	1457	153	2443	274	17.1	3591.6	1434.1	690.7
E_170	NE_REF	26	26	884639	6343902	1309	219	1510	391	80.1	4628.3	1412.6	875.3
E_184	NE_REF	29	29	884627	6343710	1396	150	1339	277	43.9	4264.5	1214.0	725.5
E_186	NE_REF	30	30	884989	6343713	1321	199	1416	310	1.2	5198.4	1194.8	675.3
E_188	NE_REF	30	30	885338	6343708	1294	212	1199	273	52.1	6087.5	964.2	858.7
E_191	NE_REF	30	30	885847	6343703	1208	129	981	151	7.7	7078.5	880.1	952.9
E_203	NE_REF	21	21	885527	6343534	1319	155	1676	278	21.4	5743.6	642.3	681.6
E_21	NE_REF	30	30	882548	6345846	1219	123	2680	260	0.2	251.6	6605.9	2801.0
E_217	NE_REF	30	29	884984	6343361	1513	197	470	260	30.6	4757.1	722.1	377.5
E_224	NE_REF	30	30	886208	6343354	1289	212	1491	254	73.6	6761.6	697.0	641.9
E_243	NE_REF	30	30	885501	6343177	1529	150	1042	302	1.2	4877.5	468.7	377.9
E_28	NE_REF	30	30	882736	6345610	1165	282	2102	243	32.1	333.1	6251.2	2199.5
E_61	NE_REF	30	29	882699	6344960	1494	102	1855	316	86.3	553.9	4273.9	1568.1
E_76	NE_REF	31	30	883247	6344771	1386	162	2495	218	15.8	1657.1	4793.2	1460.2
E_91	NE_REF	30	30	883604	6344602	1339	181	1300	183	243.4	2177.7	3246.4	1683.5
W_10	NW_REF	29	29	881142	6346187	1172	116	2676	235	987.1	1.8	7073.9	2902.8
W_122	NW_REF	7	7	879278	6346550	1051	NA	1605	282	3104.2	94.7	6346.3	4622.8
W_142	NW_REF	29	29	880280	6346261	1163	92	1320	333	1572.0	120.0	5632.4	3399.2
W_164	NW_REF	27	27	880552	6346204	1211	80	1618	314	1183.0	11.5	7170.2	2905.9
W_206	NW_REF	24	20	879222	6345806	1058	75	1381	165	2997.2	14.9	6459.8	2983.1
W_221	NW_REF	40	39	880002	6345770	1282	210	1367	319	2066.7	182.3	5587.2	2686.0
W_229	NW_REF	41	41	879984	6345695	1314	180	2030	316	2293.9	42.8	6087.5	3203.2
W_257-1	NW_REF	33	31	878775	6345394	1065	75	1051	175	2813.4	16.5	5832.9	2739.1
W_257-2	NW_REF	184	40	878659	6345401	1032	112	1425	183	3094.0	159.7	5581.5	2445.2
W_260	NW_REF	30	30	879079	6345428	1085	133	1550	331	2925.1	1.7	5794.5	3121.1
W_263	NW_REF	42	39	879686	6345423	1181	75	793	277	3139.8	33.8	5315.6	2610.2
W_313	NW_REF	30	30	878740	6344921	1109	65	931	161	2600.6	0.6	5290.3	1804.1
W_362-1	NW_REF	40	39	878814	6344870	1159	122	1543	315	2533.9	13.6	5136.1	1597.2
W_362-2	NW_REF	42	39	878966	6344911	1175	65	1068	271	2381.3	0.8	5448.6	1649.0
W_384	NW_REF	296	40	879342	6344728	1363	126	884	70	1513.4	0.2	4672.4	1722.9
W_415	NW_REF	13	13	878137	6344665	1139	65	1030	234	3174.5	305.0	6412.1	2544.7
W_429	NW_REF	13	13	879924	6344587	1567	65	378	161	807.1	94.6	3795.4	1021.7
W_435	NW_REF	40	40	879429	6344477	1482	179	1267	325	1115.3	102.1	4531.2	1148.6
W_484	NW_REF	36	33	878733	6344250	1372	65	686	174	1324.9	276.0	4919.3	1385.8
W_A	NW_REF	29	28	880752	6345722	1351	221	2890	366	1735.5	131.3	4221.4	2068.7
W_B	NW_REF	30	30	880476	6345675	1361	220	4100	350	2308.2	27.2	4638.1	2681.0
W_C	NW_REF	30	29	879955	6344974	1396	258	1979	265	1229.8	13.3	5205.9	1760.1
W_D	NW_REF	12	12	881049	6346353	1000	NA	1830	382	1309.2	49.4	6684.5	2920.8
W_N2	NW_REF	99	40	878998	6345235	1195	NA	977	357	3569.6	11.1	5243.4	2604.5
W_N3	NW_REF	31	30	879113	6344863	1226	NA	1560	322	2503.1	23.1	5105.1	1895.1
S_1101	S_REF	30	30	884063	6342071	1427	156	1609	391	1686.0	3126.1	1141.6	1.1

S_1225	S_REF	30	30	882580	6341859	1345	210	1618	421	1676.3	2958.2	1541.7	27.0
S_1250	S_REF	30	29	886364	6341702	1423	191	1260	375	717.3	5736.7	0.1	915.4
S_5	S_REF	30	29	886616	6342311	1517	120	1169	388	413.5	5204.1	2.9	707.5
S_901	S_REF	30	30	881199	6343020	1454	221	1431	387	1210.5	1280.7	3269.4	8.8
S_905	S_REF	30	30	881977	6342722	1430	199	1165	482	1716.2	2168.0	2837.6	4.8
S_985	S_REF	30	30	882618	6342836	1503	183	1623	465	1077.9	1838.0	2086.9	5.7
E_1217	NE_EXP	30	30	890082	6341948	1224	156	2179	347	1440.7	10837.0	2207.7	3170.6
E_1231	NE_EXP	30	30	891475	6342079	1289	105	1121	381	1762.8	11408.3	2016.1	3169.8
E_256	NE_EXP	7	7	887791	6343152	1231	218	1613	430	90.3	8747.3	626.4	1382.2
E_259	NE_EXP	30	30	888297	6343149	1338	135	528	253	316.7	9188.5	926.9	1643.6
E_267	NE_EXP	30	30	886805	6343030	1419	243	1201	284	42.1	7261.0	325.3	862.6
E_274	NE_EXP	30	30	888655	6342801	1305	194	2067	295	417.9	8792.6	982.3	1787.0
E_68	NE_EXP	30	30	890769	6340854	1099	134	1700	441	2574.7	9611.4	2311.9	3760.4
E_940	NE_EXP	30	30	890389	6342743	1198	173	968	295	2091.2	10271.3	1848.3	2891.5
E_979	NE_EXP	30	30	891629	6342749	1024	187	1223	390	4112.8	12373.3	2944.5	3878.4
E_980	NE_EXP	30	29	892943	6342699	993	220	1620	270	5123.1	11439.5	4123.5	5024.3
E_E	NE_EXP	11	10	888405	6343898	983	NA	1520	645	427.6	9055.7	1348.1	2406.4
E_1755	NE_EXP	30	30	888023	6340224	1238	118	1621	443	1567.7	7494.8	1000.6	2484.5
S_1	S_EXP	30	29	882615	6337726	895	NA	932	83	3349.0	3879.3	1794.0	1360.1
S_1332	S_EXP	30	30	884976	6341206	1321	158	1295	360	1449.2	5192.0	302.7	437.4
S_1727	S_EXP	30	29	886026	6340302	1223	148	1455	315	1773.3	4891.5	46.6	1043.5
S_1739	S_EXP	30	30	882784	6340206	1103	93	741	300	1709.0	3144.7	1226.8	587.4
S_1832	S_EXP	30	30	883779	6339938	1119	222	2650	528	1988.1	4162.1	796.5	1356.8
S_1913	S_EXP	30	30	886787	6339439	1203	93	1202	300	2216.3	5731.4	782.8	1734.0
S_2007	S_EXP	30	29	882583	6339011	979	95	864	290	2097.7	3514.9	2072.4	930.2
S_2046	S_EXP	30	30	886361	6338618	1096	232	1437	360	2561.4	5767.5	775.0	1520.6
S_23	S_EXP	19	19	887210	6341512	1406	NA	1502	530	1050.9	7630.7	63.3	1598.1
S_3	S_EXP	20	20	885981	6339608	1204	NA	1168	356	2066.3	5641.6	385.5	1260.3
S_93	S_EXP	30	30	885546	6338720	1121	NA	2410	210	2037.8	5205.6	751.3	1512.3

Figure S2: Variation of altitude, age, tree size and distance to refugia among the five studied regions. S_REF and NE_REF have a significantly higher altitude; NW_REF has a significantly lower age; NE_REF and NW_REF have a significantly lower minimal circumference; variations in maximal circumference were not significant. Logically, plots from NW_REF region are closer from NE refuge axis, plots from NE_REF region are closer from NW refugia axis, and plots from S_REF region are closer from SW refugia.

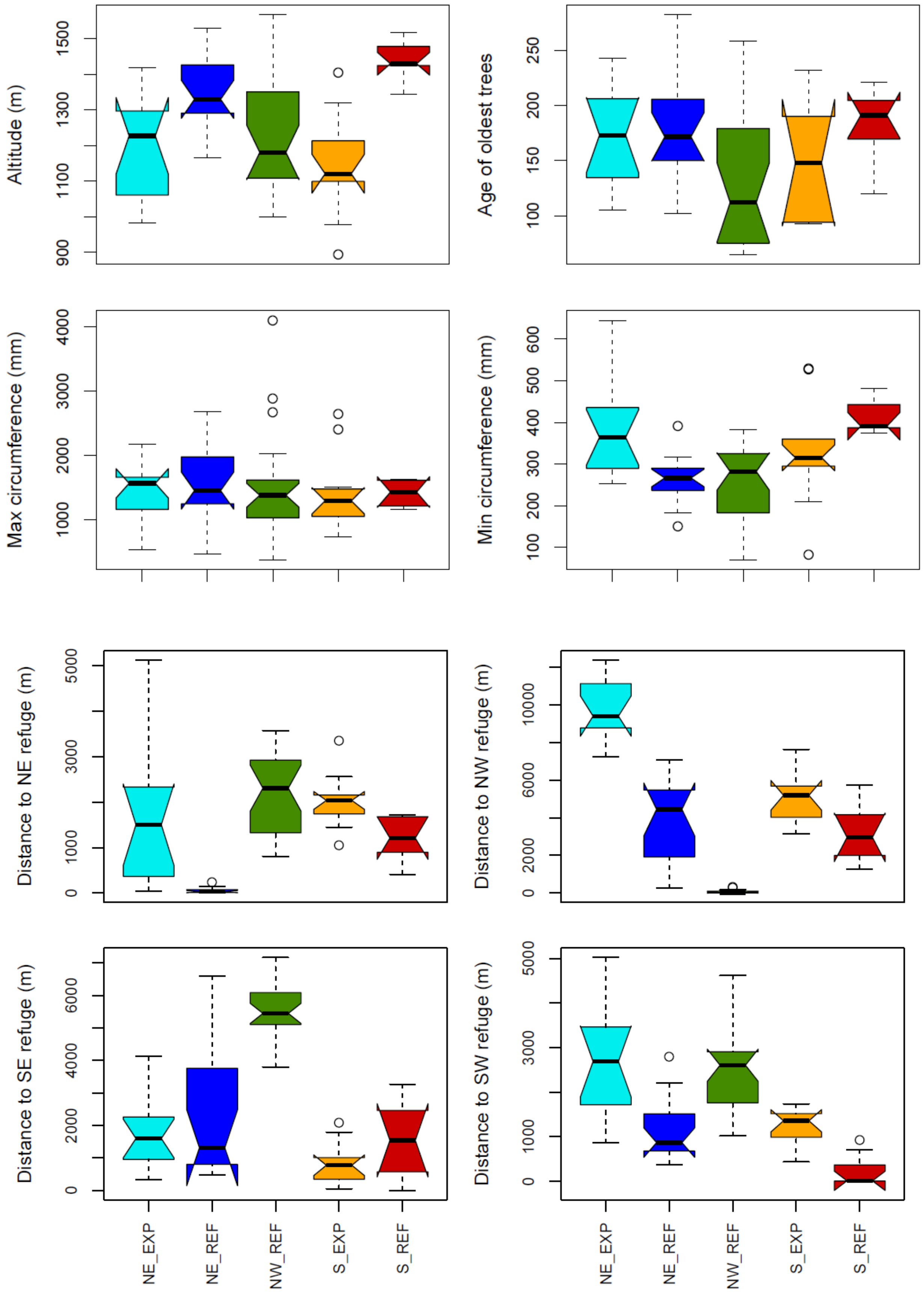


Table S2: Diversity parameters and Bayesian assignments of the 71 plots

Clust: name of the cluster the plot was assigned with STRUCTURE/TESS (with its corresponding p-value, $\mathbf{p_{val}}$); **Na**: number of alleles; **Ar**: allelic richness; **Ho**: observed heterozygosity; **He**: expected heterozygosity; **difHe :** difference in He between the old and young cohort (in %); **difAr :** difference in Ar between the old and young cohort (in %); $\mathbf{F_{IS}}$: inbreeding coefficient. $\mathbf{p_{Hdef}}$: probability of heterozygote deficiency; $\mathbf{p_{Hexc}}$: probability of heterozygote excess; **βwt** : genetic differentiation from the entire pool; **Sp** : intensity of spatial genetic structure, (with its corresponding p-value, $\mathbf{p_{Sp}}$)

Plot	Clust	p_{val}	Na	Ar	Ho	He	difHe	DifAr	F_{IS}	p_{Hdef}	p_{Hexc}	βwt	Sp	p_{Sp}
North West Refuge (NW_REF)														
W_10	C2	0.65	71	4.08	0.68	0.66	3.0	-2.8	-0.013	NS	NS	0.046	0.031	*
W_122	C1	0.68	55	3.82	0.62	0.62	-27.5	-13.5	0.081	NS	NS	0.050	0.062	*
W_142	C1	0.77	82	4.47	0.67	0.67	-4.7	-4.0	0.014	NS	NS	0.032	0.009	*
W_164	C1	0.68	76	4.16	0.66	0.65	-4.8	0.4	0.001	NS	NS	0.062	0.023	NS
W_206	C1	0.75	73	4.44	0.7	0.7	4.3	0.8	0.031	NS	NS	-0.024	0.020	*
W_221	C1	0.88	86	4.45	0.74	0.7	2.9	2.6	-0.047	NS	*	-0.005	0.005	NS
W_229	C1	0.71	86	4.67	0.75	0.71	6.9	6.3	-0.033	NS	NS	-0.027	0.015	*
W_257-1	C1	0.76	75	4.35	0.69	0.69	0.0	0.0	0.025	NS	NS	0.002	0.028	*
W_257-2	C1	0.86	81	4.39	0.69	0.69	8.7	3.5	0.007	NS	NS	0.007	0.026	*
W_260	C1	0.84	79	4.32	0.7	0.7	-1.5	4.6	0.014	NS	NS	-0.013	0.004	NS
W_263	C1	0.73	82	4.43	0.7	0.7	4.3	3.8	0.012	NS	NS	-0.001	0.011	*
W_313	C1	0.93	81	4.43	0.66	0.68	-3.1	-1.2	0.046	NS	NS	0.014	0.023	*
W_362-1	C1	0.93	76	4.34	0.71	0.67	1.5	1.9	-0.037	NS	NS	0.033	0.030	*
W_362-2	C1	0.82	81	4.28	0.7	0.68	-9.7	-6.7	-0.005	NS	NS	0.017	0.029	*
W_384	C1	0.87	91	4.66	0.7	0.7	-2.9	-2.7	0.02	NS	NS	-0.009	0.009	*
W_415	C1	0.77	62	3.91	0.61	0.61	-40.9	-28.9	0.041	NS	NS	0.100	0.081	*
W_429	C1	0.49	62	3.99	0.72	0.65	7.8	5.3	-0.072	NS	NS	0.045	0.033	NS
W_435	C1	0.61	79	4.36	0.67	0.67	-4.6	-8.2	0.013	NS	NS	0.033	0.001	NS
W_484	C1	0.86	79	4.55	0.69	0.69	-1.5	1.1	0.011	NS	NS	0.005	0.012	*
W_A	C2	0.77	71	4.39	0.73	0.71	-4.4	-3.9	-0.015	NS	NS	-0.020	0.018	*
W_B	C1	0.69	76	4.39	0.67	0.67	-3.1	-4.9	0.011	NS	NS	0.039	0.041	*
W_C	C2	0.64	70	4.27	0.7	0.68	-1.5	1.5	-0.022	NS	NS	0.022	0.042	*
W_D	C1	0.80	60	3.99	0.74	0.65	3.1	3.6	-0.092	NS	*	0.030	-0.007	NS
W_N2	C1	0.74	83	4.42	0.71	0.69	2.9	2.7	-0.016	NS	NS	0.011	0.015	*
W_N3	C1	0.65	77	4.36	0.71	0.7	2.9	0.8	-0.005	NS	NS	-0.005	0.007	NS
Mean			**75.8**	**4.32**	**0.69**	**0.68**	**-2.5**	**-1.5**	**-0.001**			**0.018**	**0.023**	
North East Refuge (NE_REF)														
E_132	C1	0.47	82	4.44	0.65	0.65	-1.6	-0.4	0.017	NS	NS	0.062	0.015	*
E_168	C1	0.61	82	4.68	0.76	0.71	-2.9	-1.5	-0.048	NS	*	-0.027	-0.004	NS
E_170	C1	0.74	70	4.35	0.69	0.67	3.0	0.8	-0.006	NS	NS	0.023	-0.012	NS
E_184	C1	0.72	75	4.44	0.72	0.7	0.0	4.5	-0.008	NS	NS	-0.008	-0.004	NS
E_186	C1	0.85	78	4.44	0.71	0.68	4.4	3.9	-0.029	NS	NS	0.014	0.002	NS
E_188	C1	0.61	75	4.33	0.67	0.67	-4.7	-2.4	0.011	NS	NS	0.036	0.016	NS
E_191	C1	0.64	74	4.14	0.61	0.62	1.6	2.8	0.033	NS	NS	0.099	0.029	*
E_203	C2	0.69	67	4.2	0.73	0.65	29.2	15.6	-0.096	NS	*	0.057	0.025	*
E_21	C1	0.74	74	4.28	0.64	0.65	-3.2	-3.3	0.044	NS	NS	0.056	0.030	*
E_217	C1	0.60	75	4.31	0.65	0.64	-20.8	-16.2	-0.006	NS	NS	0.077	0.059	*
E_224	C1	0.56	74	4.23	0.63	0.65	6.2	-0.4	0.045	NS	NS	0.068	0.035	*
E_243	C2	0.70	81	4.52	0.68	0.66	-1.6	0.0	-0.011	NS	NS	0.052	0.003	*

E_28	C1	0.77	73	4.39	0.72	0.69	4.3	1.9	-0.025	NS	NS	0.007	0.009	NS
E_61	C2	0.87	71	4.25	0.7	0.68	3.0	-2.0	-0.016	NS	NS	0.023	0.032	*
E_76	C2	0.59	72	4.26	0.68	0.66	0.0	2.0	-0.024	NS	NS	0.051	0.009	NS
E_91	C1	0.76	84	4.45	0.72	0.68	5.9	7.3	-0.047	NS	NS	0.024	0.000	NS
Mean			**75.4**	**4.36**	0.69	**0.67**	**1.4**	**0.8**	**-0.010**			**0.038**	**0.015**	
South Refuge (S_REF)														
S_1101	C2	0.79	82	4.49	0.64	0.67	-6.1	0.8	0.108	NS	NS	0.019	0.028	*
S_1225	C2	0.55	70	4.24	0.68	0.66	4.5	-1.6	-0.017	NS	NS	0.049	0.027	*
S_1250	C2	0.83	67	4.06	0.71	0.64	9.9	0.5	-0.078	NS	*	0.060	0.065	*
S_5	C2	0.56	71	4.04	0.63	0.64	1.6	-0.4	0.03	NS	NS	0.073	0.018	*
S_901	C1	0.60	68	3.92	0.64	0.65	0.0	-8.3	0.05	NS	NS	0.050	0.014	NS
S_905	C2	0.82	69	3.78	0.66	0.63	-1.6	-7.4	-0.026	NS	NS	0.083	0.027	*
S_985	C2	0.77	81	4.48	0.73	0.7	-9.2	-8.0	-0.017	NS	NS	-0.016	0.041	*
Mean			**72.6**	**4.14**	0.67	**0.66**	**-0.1**	**-3.5**	**0.007**			**0.045**	**0.032**	
North East Expansion (NE_EXP)														
E_1217	C1	0.76	71	4.08	0.72	0.67	4.5	5.5	-0.048	NS	NS	0.026	0.043	*
E_1231	C3	0.88	82	4.54	0.6	0.62	3.2	-0.9	0.057	*	NS	0.101	0.008	NS
E_256	C2	0.76	52	3.84	0.69	0.63	3.3	0.8	-0.021	NS	NS	0.038	-0.038	NS
E_259	C1	0.59	75	4.4	0.7	0.68	4.4	4.6	-0.02	NS	NS	0.022	0.005	NS
E_267	C2	0.79	76	4.27	0.68	0.66	4.5	2.3	-0.014	NS	NS	0.051	0.011	NS
E_274	C2	0.48	76	4.52	0.69	0.68	-4.6	-1.6	-0.001	NS	NS	0.015	0.000	NS
E_68	C1	0.50	72	3.87	0.63	0.64	33.8	13.4	0.043	NS	NS	0.072	0.020	NS
E_940	C1	0.59	71	4.25	0.66	0.67	1.5	-2.4	0.035	NS	NS	0.027	0.022	NS
E_979	C1	0.57	75	4.36	0.64	0.68	-7.8	-4.0	0.076	*	NS	0.018	0.024	NS
E_980	C1	0.76	70	4.24	0.68	0.7	0.0	-3.6	0.042	NS	NS	-0.013	0.014	NS
E_E	C1	0.69	60	4.05	0.74	0.65	3.1	5.1	-0.087	NS	NS	0.027	0.068	*
E_1755	C3	0.65	93	5.11	0.71	0.7	7.0	3.3	0.002	NS	NS	-0.013	-0.001	NS
Mean			**72.8**	**4.29**	0.68	**0.67**	**4.4**	**1.9**	**0.005**			**0.031**	**0.015**	
South Expansion (S_EXP)														
S_1	C1	0.60	71	4.39	0.65	0.68	-1.5	0.4	0.058	*	NS	0.018	0.003	NS
S_1332	C2	0.90	70	4.14	0.71	0.67	7.4	0.0	-0.02	NS	NS	0.008	0.020	NS
S_1727	C3	0.48	77	4.59	NA	0.72	-4.3	-4.4	0.062	*	NS	0.010	0.013	NS
S_1739	C1	0.50	73	4.41	0.69	0.62	-18.3	-3.9	-0.096	NS	*	0.102	0.007	NS
S_1832	C2	0.80	72	4.34	0.67	0.65	-1.6	4.7	-0.005	NS	NS	0.058	0.021	*
S_1913	C3	0.90	84	4.63	0.63	0.65	-3.2	-3.2	0.044	NS	NS	0.062	-0.001	NS
S_2007	C2	0.56	66	3.86	0.66	0.61	0.0	-2.3	-0.045	NS	NS	0.108	0.048	*
S_2046	C1	0.76	58	3.1	NA	0.62	-1.6	0.0	0.033	NS	NS	0.072	0.018	NS
S_23	C3	0.79	77	4.56	0.64	0.63	6.3	-0.8	0.009	NS	NS	0.078	0.019	NS
S_3	C3	0.89	76	4.57	0.67	0.66	-8.1	-6.0	0.022	NS	NS	0.033	-0.005	NS
S_93	C1	0.74	76	4.39	0.67	0.69	2.9	-1.2	0.041	NS	NS	0.011	0.033	*
Mean			**72.7**	**4.27**	0.67	**0.65**	**-2.0**	**-1.5**	**0.009**			**0.051**	**0.016**	

Table S3: Hierarchical analysis of genetic variation at 12 microsatellite loci for 2042 beech individuals distributed in 71 plots (lev2-pop) nested within 5 regions (lev1-reg).

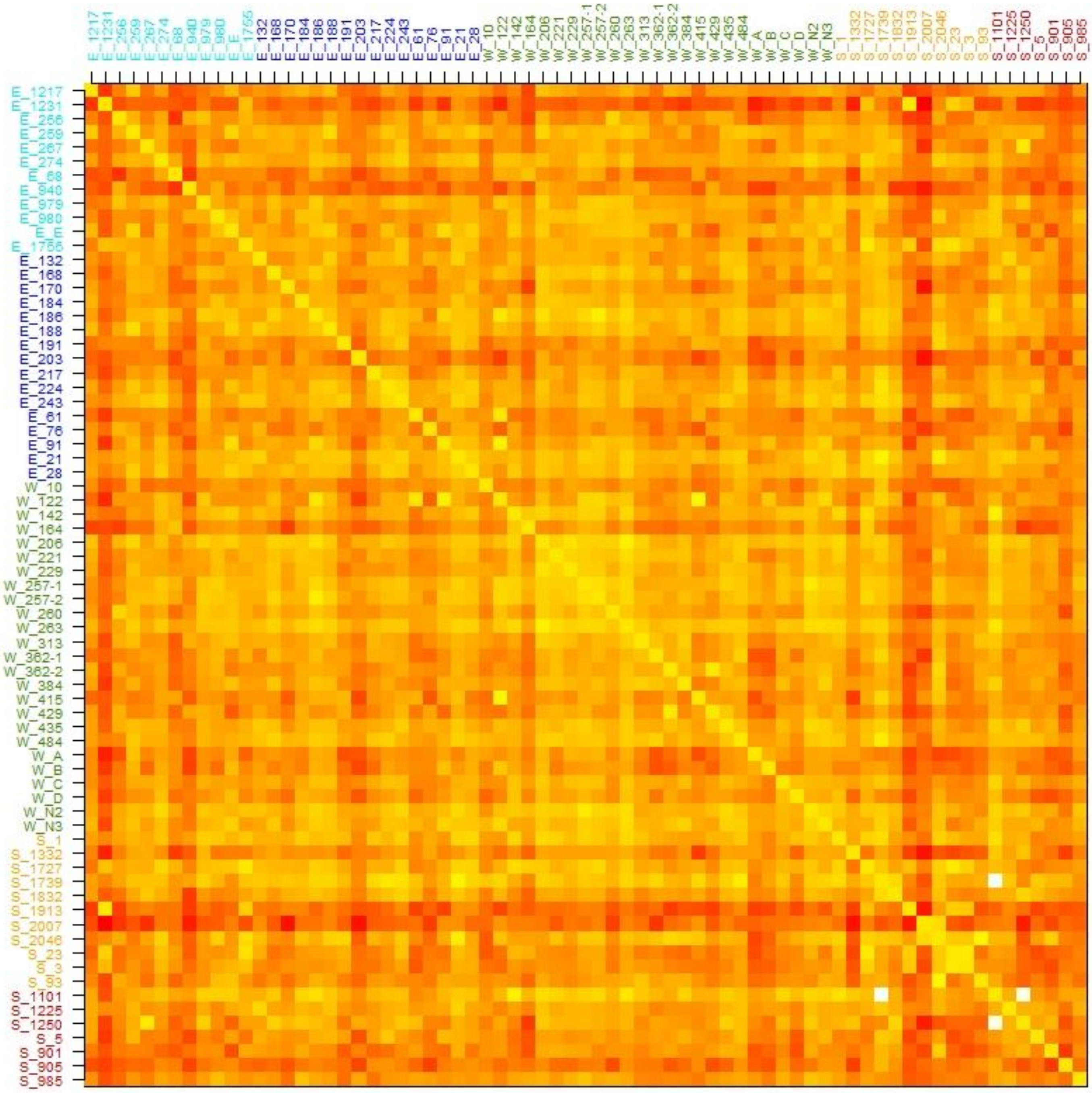
The variance components estimated with *hierfstat* for each hierarchical level are displayed for each locus and overall.

Locus	lev1-reg	lev2-pop	Ind	Error
FS1-15	-0.0001	0.0318	0.0129	0.8208
FS3-04	0.0026	0.0132	-0.0268	0.5003
sfc0007-2	0.0017	0.0217	0.0166	0.7470
sfc0018	0.0002	0.0186	0.0578	0.6607
sfc0036	0.0002	0.0233	0.0015	0.6595
sfc1143	0.0004	0.0228	-0.0227	0.8159
csolfagus-5	0.0020	0.0186	0.0164	0.7181
csolfagus-6	-0.0001	0.0230	-0.0049	0.8370
csolfagus-25	0.0013	0.0135	-0.0083	0.5365
csolfagus-29	-0.0002	0.0152	-0.0146	0.5488
csolfagus-31	0.0037	0.0216	-0.0253	0.7530
mfs7	0.0051	0.0202	-0.0017	0.6286
overall	0.0168	0.2435	0.0009	8.2260

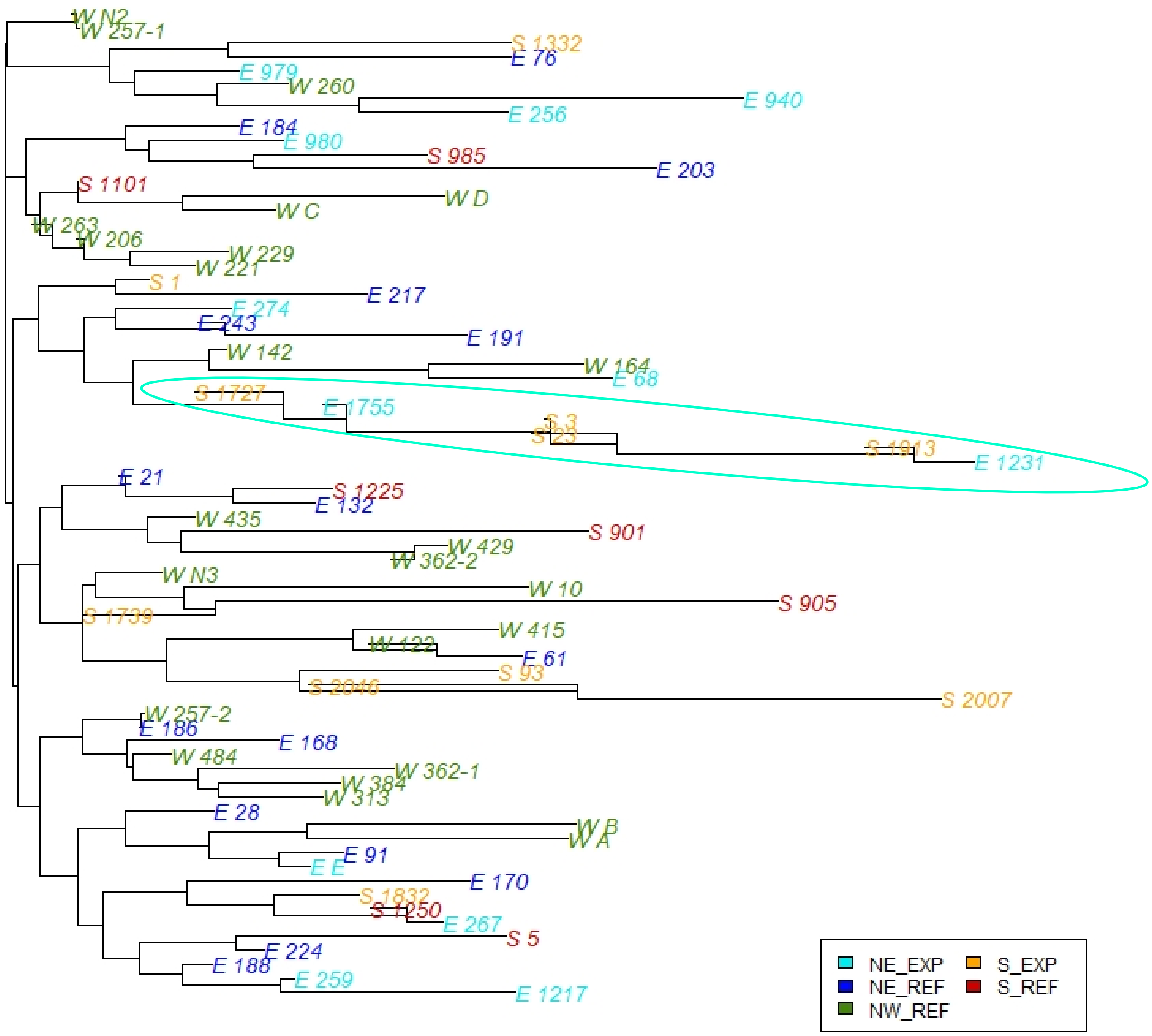
Figure S3: Pairwise genetic differentiation among plots, displayed as the matrix of pairwise F_{ST} among plots (a) and F_{ST} -based trees of plots based on a neighbor-joining algorithm (b) and on a hierarchical cluster algorithm (c).

The green oval on plot (b) and (c) correspond to the six plots assigned to the C3 cluster by STRUCTURE/TESS.

(a)



(b)


W N2
W 257-1
S 1332
E 76
E 979
W 260
E 940
E 256
E 184
E 980
S 985
E 203
S 1101
W D
W C
W 263
W 206
W 229
W 221
S 1
E 217
E 274
E 243
E 191
W 142
W 164
E 68
S 1727
E 1755
S 3
S 23
S 1913
E 1231
E 21
S 1225
E 132
W 435
S 901
W 429
W 362-2
W N3
W 10
S 905
S 1739
W 415
W 122
E 61
S 93
S 2040
S 2007
W 257-2
E 186
E 168
W 484
W 362-1
W 384
W 313
E 28
W B
W A
E 91
E E
E 170
S 1832
S 1250
E 267
S 5
E 224
E 188
E 259
E 1217
NE_EXP
S_EXP
NE_REF
S_REF
NW_REF

(c)

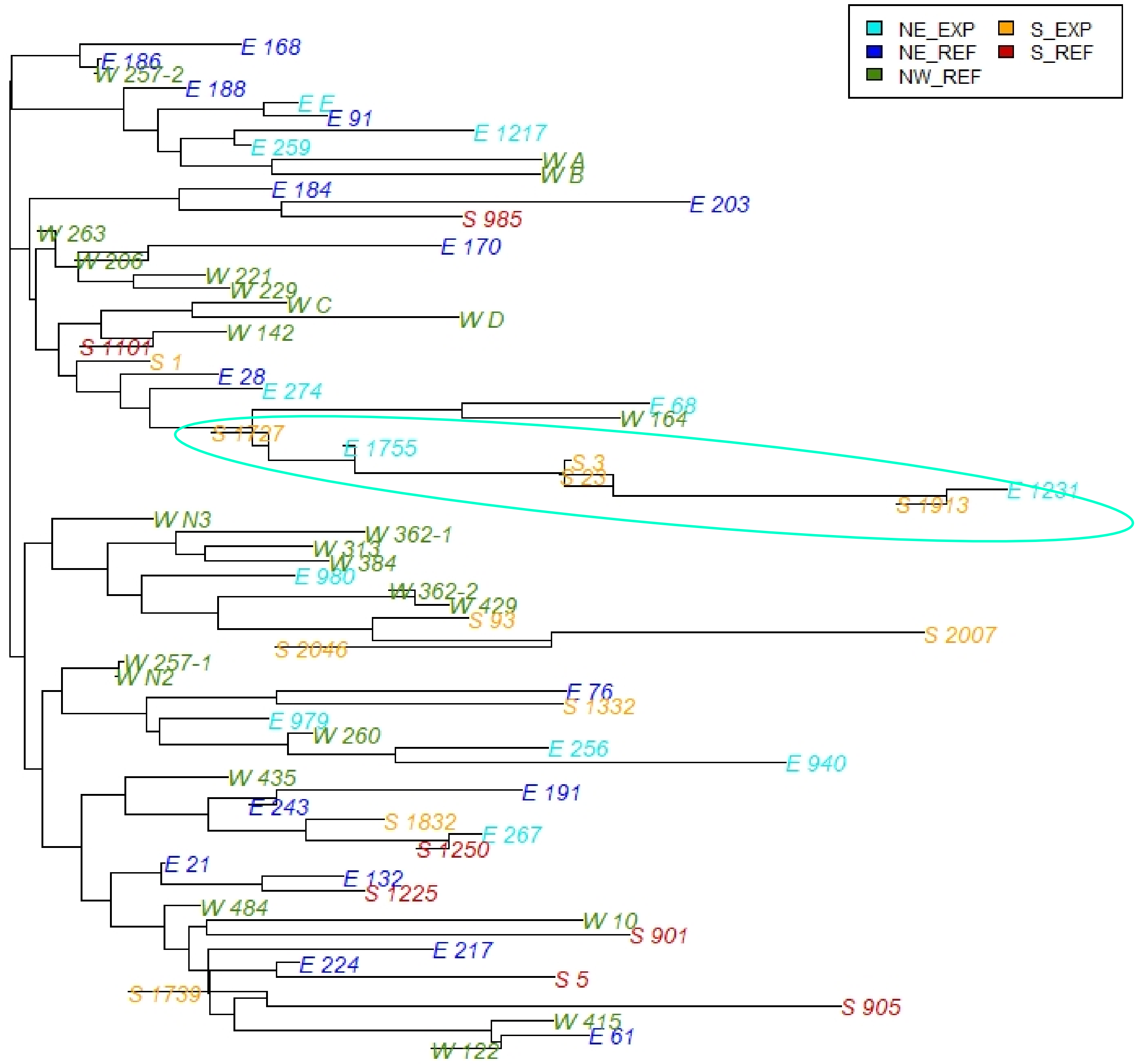
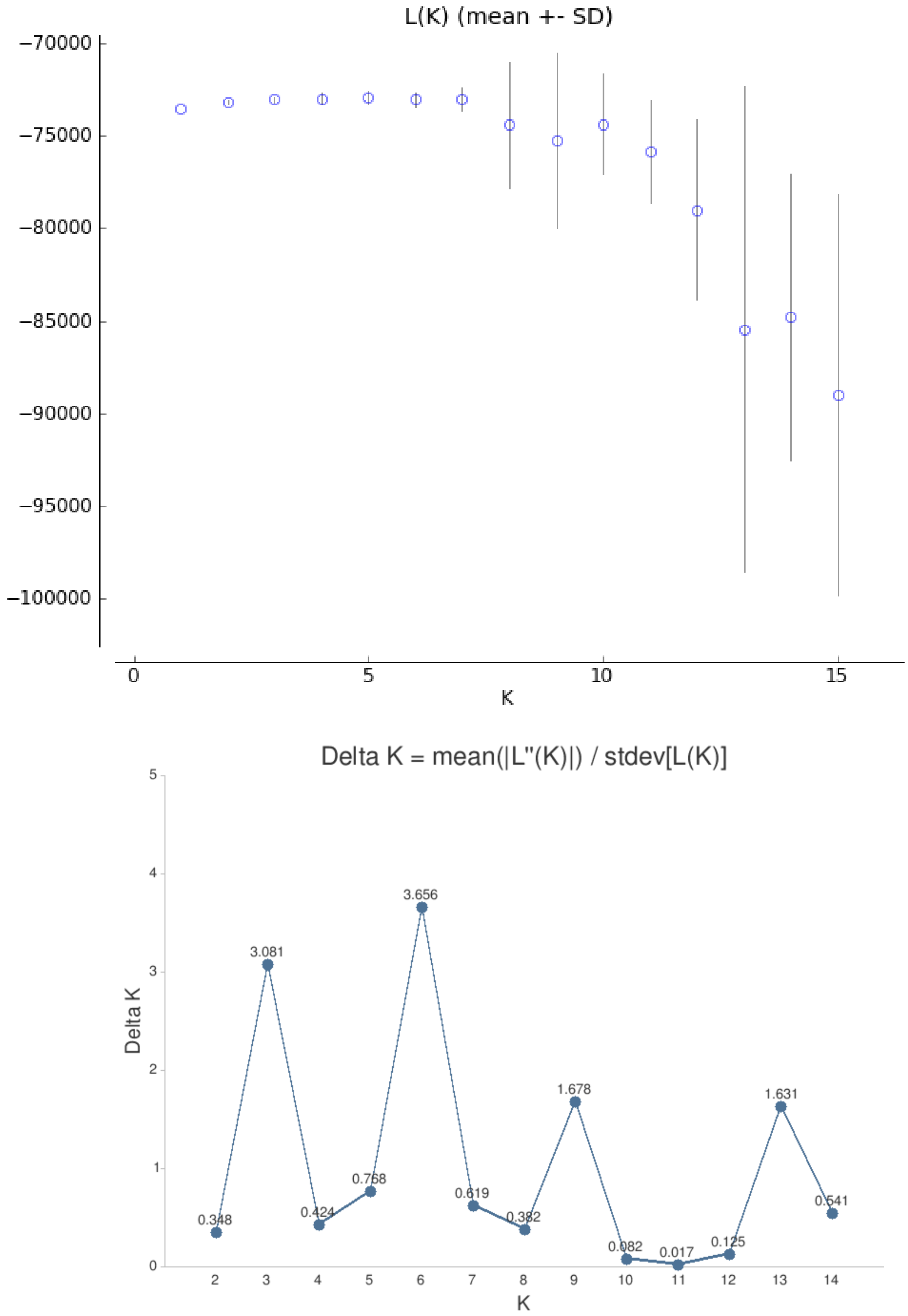
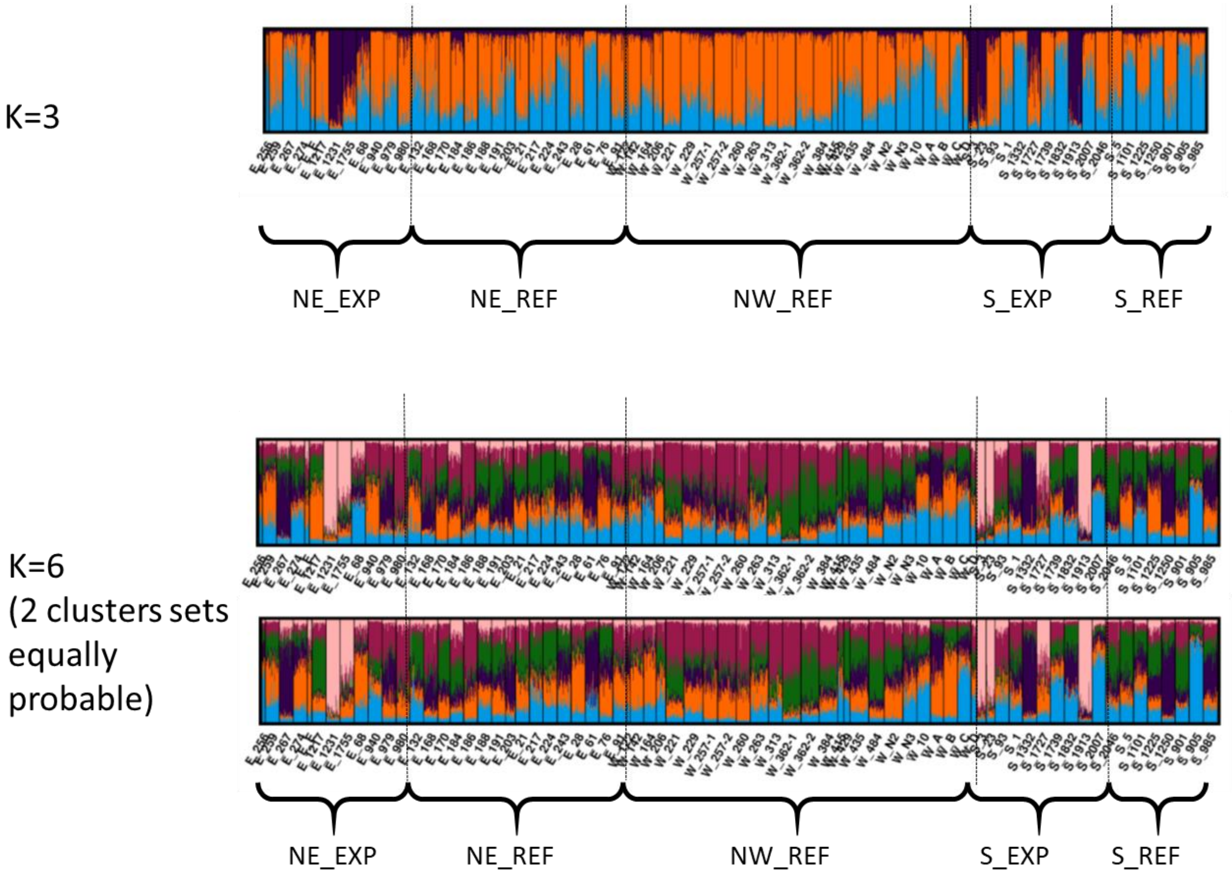

NE_EXP
S_EXP
NE_REF
S_REF
NW_REF
E 168
E 186
W 257-2
E 188
E E
E 91
E 1217
E 259
W A
W B
E 184
E 203
S 985
W 263
E 170
W 206
W 221
W 229
W C
W D
W 142
S 1101
S 1
E 28
E 274
E 68
W 164
S 1727
E 1755
S 3
S 23
E 1231
S 1913
W N3
W 362-1
W 313
W 384
E 980
W 362-2
W 429
S 93
S 2007
S 2046
W 257-1
W N2
E 76
S 1332
E 979
W 260
E 256
E 940
W 435
E 191
E 243
S 1832
E 267
S 1250
E 21
E 132
S 1225
W 484
W 10
S 901
E 217
E 224
S 5
S 1739
S 905
W 415
E 61
W 122

Figure S4: Detailed results of STRUCTURE analyses with population identifier as a prior information.
(a) Variation in the log-probability of data (L(K)) and of the statistics ΔK with K ; (b) Individual probability to belong to each cluster for K=3 and K=6 (c) Spatial interpolates of the admixture coefficients estimated for K=6 (d) Coefficients of membership of plots for K=3 and K=6 (e) Maps of the proportion of each cluster at each plot position for K=3 and K=6.

(a)

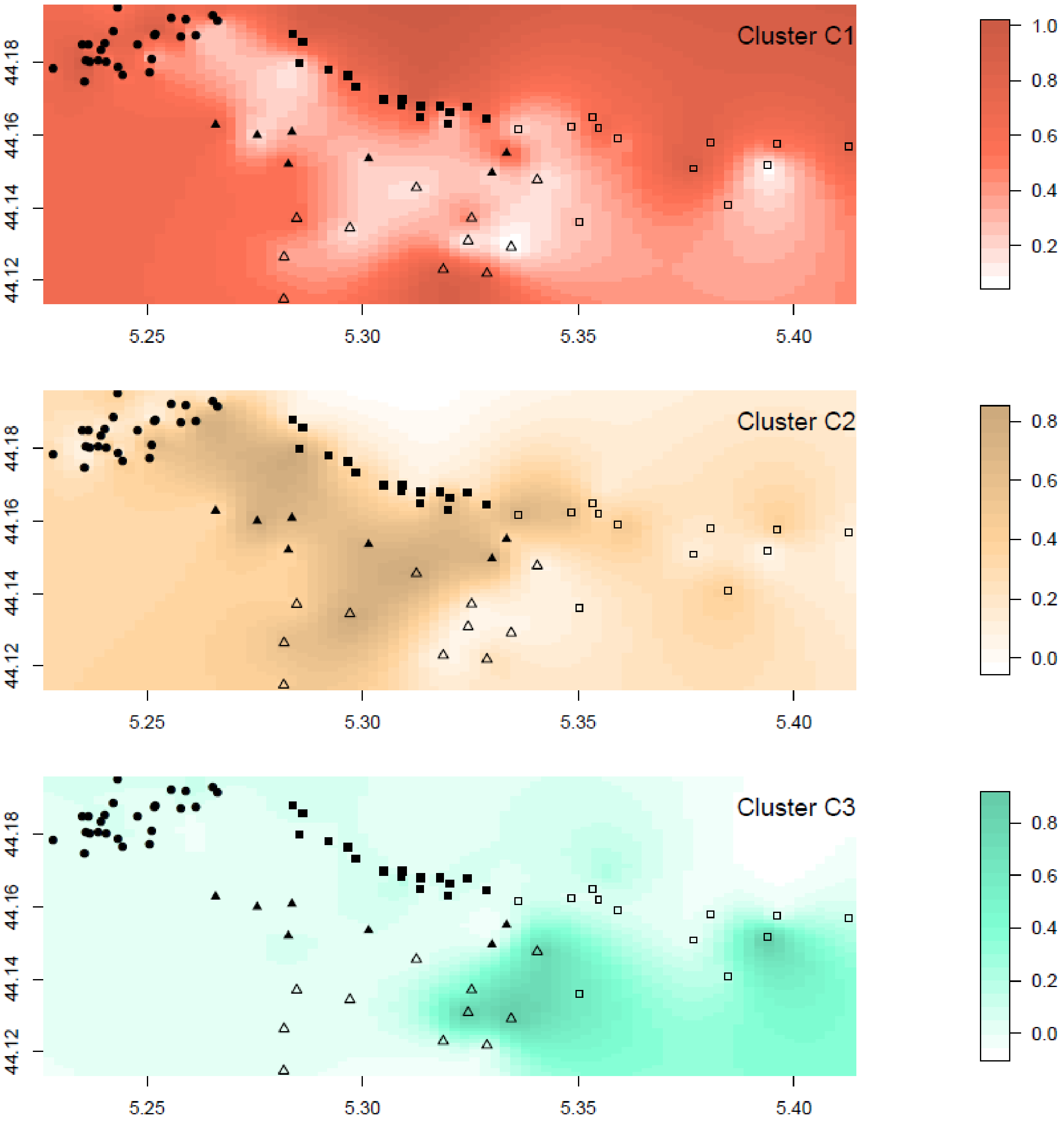


(b)

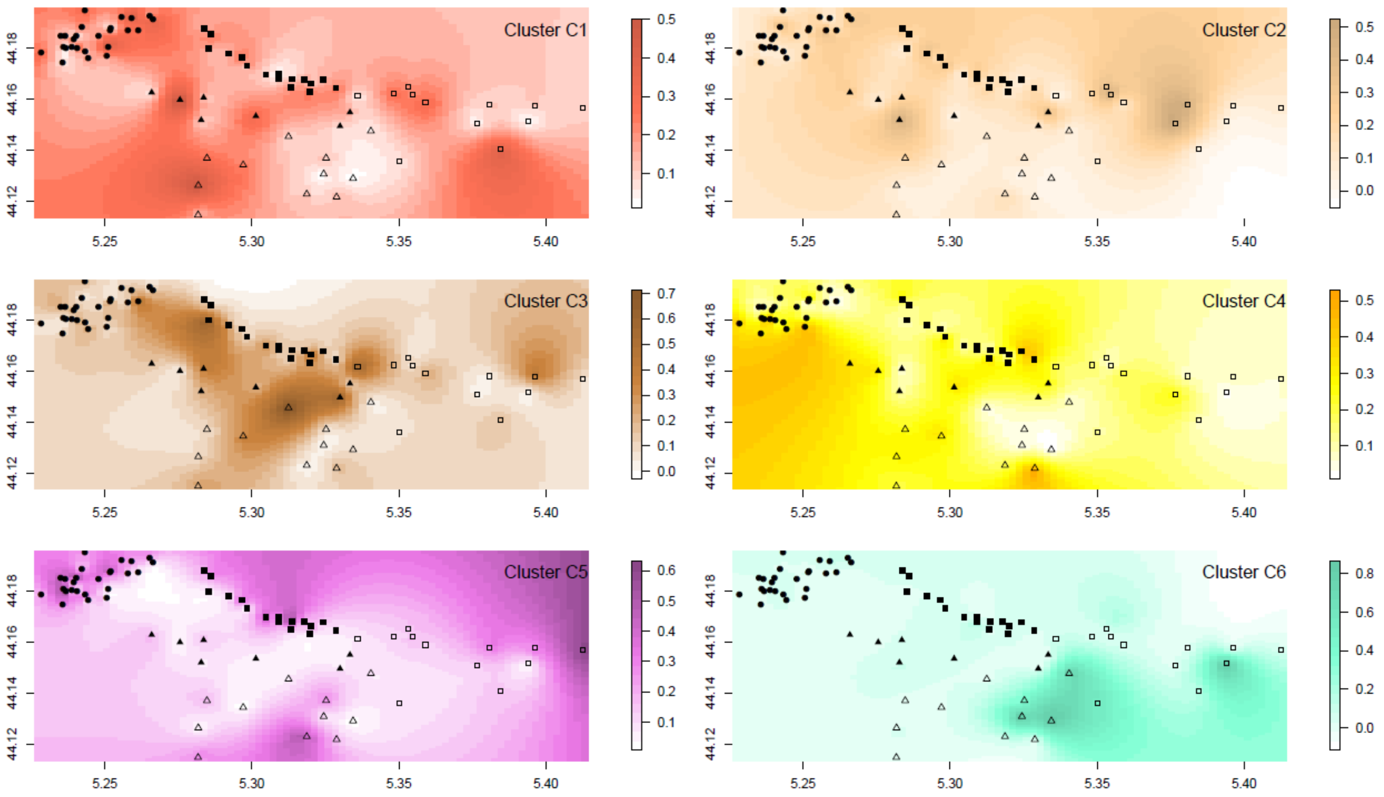

K=3
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
K=6
(2 clusters sets equally probable)
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF

(c)

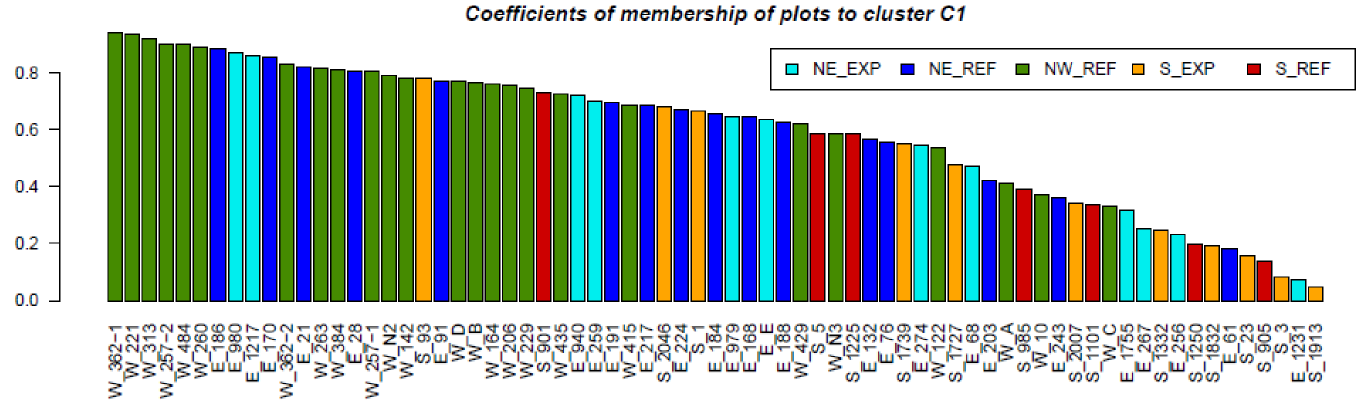
K=3

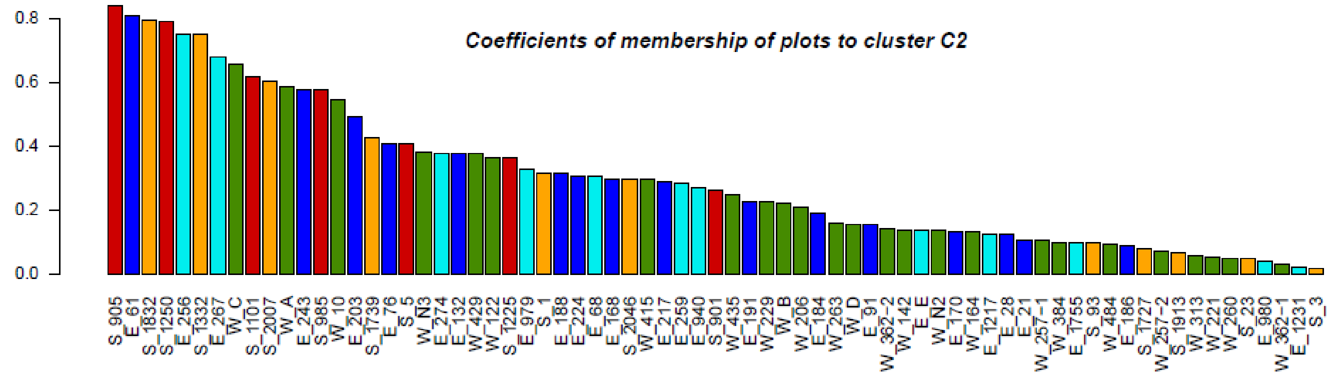

Cluster C1
Cluster C2
Cluster C3
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
1.0
0.8
0.6
0.4
0.2
0.0

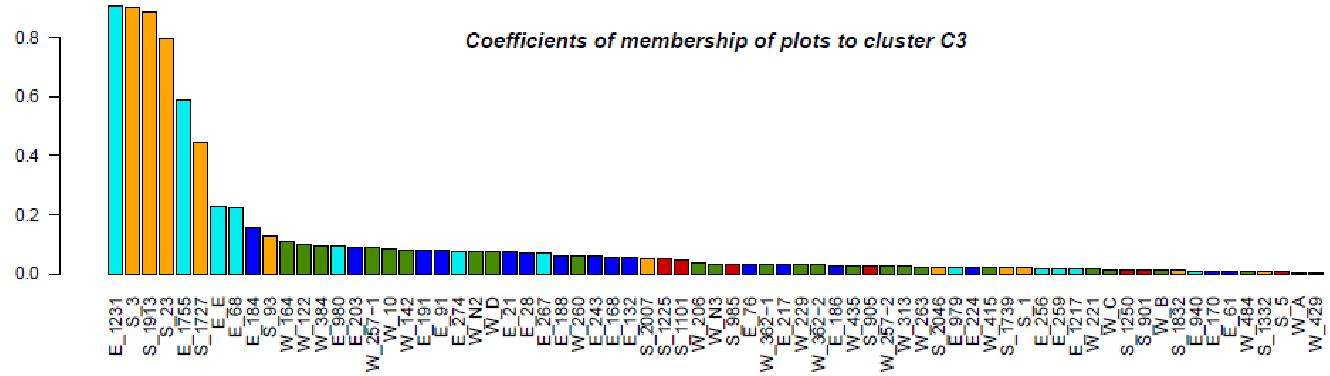
K=6


Cluster C1
Cluster C2
Cluster C3
Cluster C4
Cluster C5
Cluster C6
44.12
44.14
44.16
44.18
5.25
5.30
5.35
5.40
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

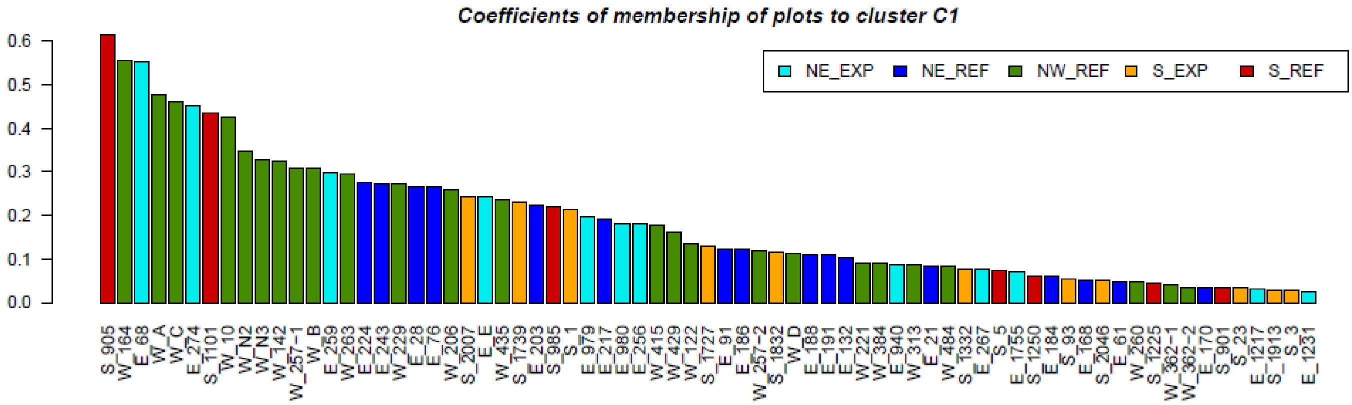
(d) K=3

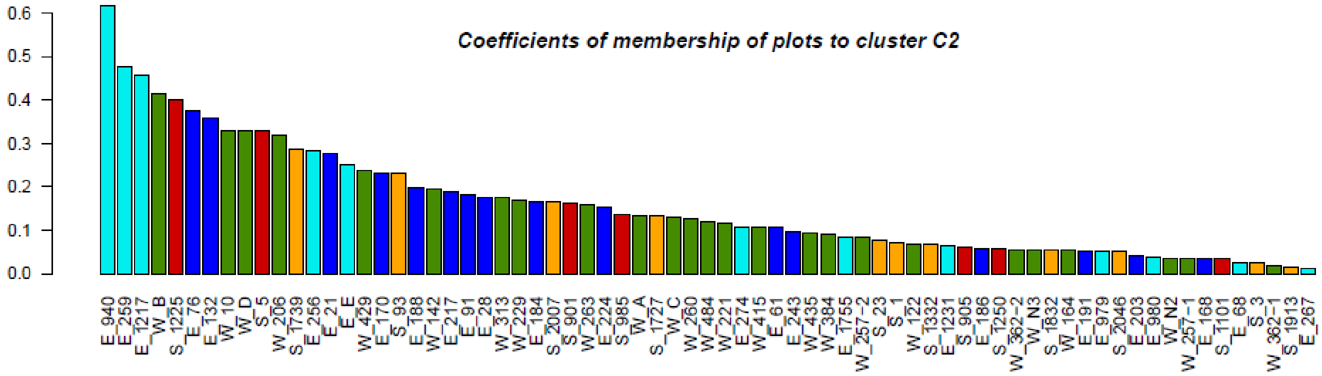

Coefficients of membership of plots to cluster C1
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
0.0
0.2
0.4
0.6
0.8
W_362-1
W_221
W_313
W_257-2
W_484
W_260
E_186
E_980
E_1217
E_170
W_362-2
E_21
W_263
W_384
E_28
W_257-1
W_N2
W_142
S_93
E_91
W_D
W_B
W_164
W_206
W_229
S_901
W_435
E_940
E_259
E_191
W_415
E_217
S_2046
E_224
S_1
E_184
E_979
E_168
E_E
E_188
W_429
S_5
W_N3
S_1225
E_132
E_76
S_1739
E_274
W_122
S_1727
E_68
E_203
W_A
S_985
W_10
E_243
S_2007
S_1101
W_C
E_1755
E_267
S_1332
E_256
S_1250
S_1832
E_61
S_23
S_905
S_3
E_1231
S_1913

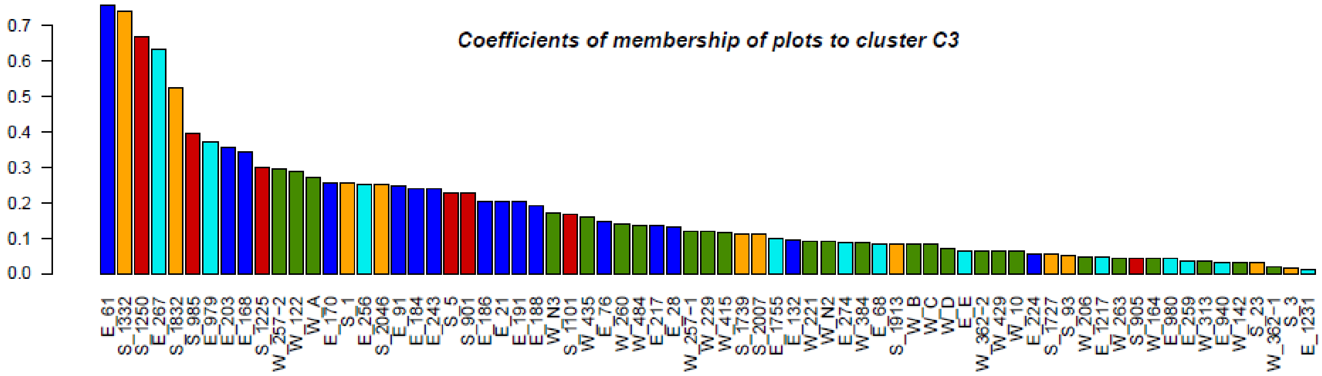

Coefficients of membership of plots to cluster C2
0.0
0.2
0.4
0.6
0.8
S_905
E_61
S_1832
S_1250
E_256
S_1332
E_267
W_C
S_1101
S_2007
W_A
E_243
S_985
W_10
E_203
S_1739
E_76
S_5
W_N3
E_274
E_132
W_429
W_122
S_1225
E_979
S_1
E_188
E_224
E_68
E_168
S_2046
W_415
E_217
E_259
E_940
S_901
W_435
E_191
W_229
W_B
W_206
E_184
W_263
W_D
E_91
W_362-2
W_142
E_E
W_N2
E_170
W_164
E_1217
E_28
E_21
W_257-1
W_384
E_1755
S_93
W_484
E_186
S_1727
W_257-2
S_1913
W_313
W_221
W_260
S_23
E_980
W_362-1
E_1231
S_3


Coefficients of membership of plots to cluster C3
0.0
0.2
0.4
0.6
0.8
E_1231
S_3
S_1913
S_23
E_1755
S_1727
E_E
E_68
E_184
S_93
W_164
W_122
W_384
E_980
E_203
W_257-1
W_10
W_142
E_191
E_91
E_274
W_N2
W_D
E_21
E_28
E_267
E_188
W_260
E_243
E_168
E_132
S_2007
S_1225
S_1101
W_206
W_N3
S_985
E_76
W_362-1
E_217
W_229
W_362-2
E_186
W_435
S_905
W_257-2
W_313
W_263
S_2046
E_979
E_224
W_415
S_1739
S_1
E_256
E_259
E_1217
W_221
W_C
S_1250
S_901
W_B
S_1832
E_940
E_170
E_61
W_484
S_1332
S_5
W_A
W_429

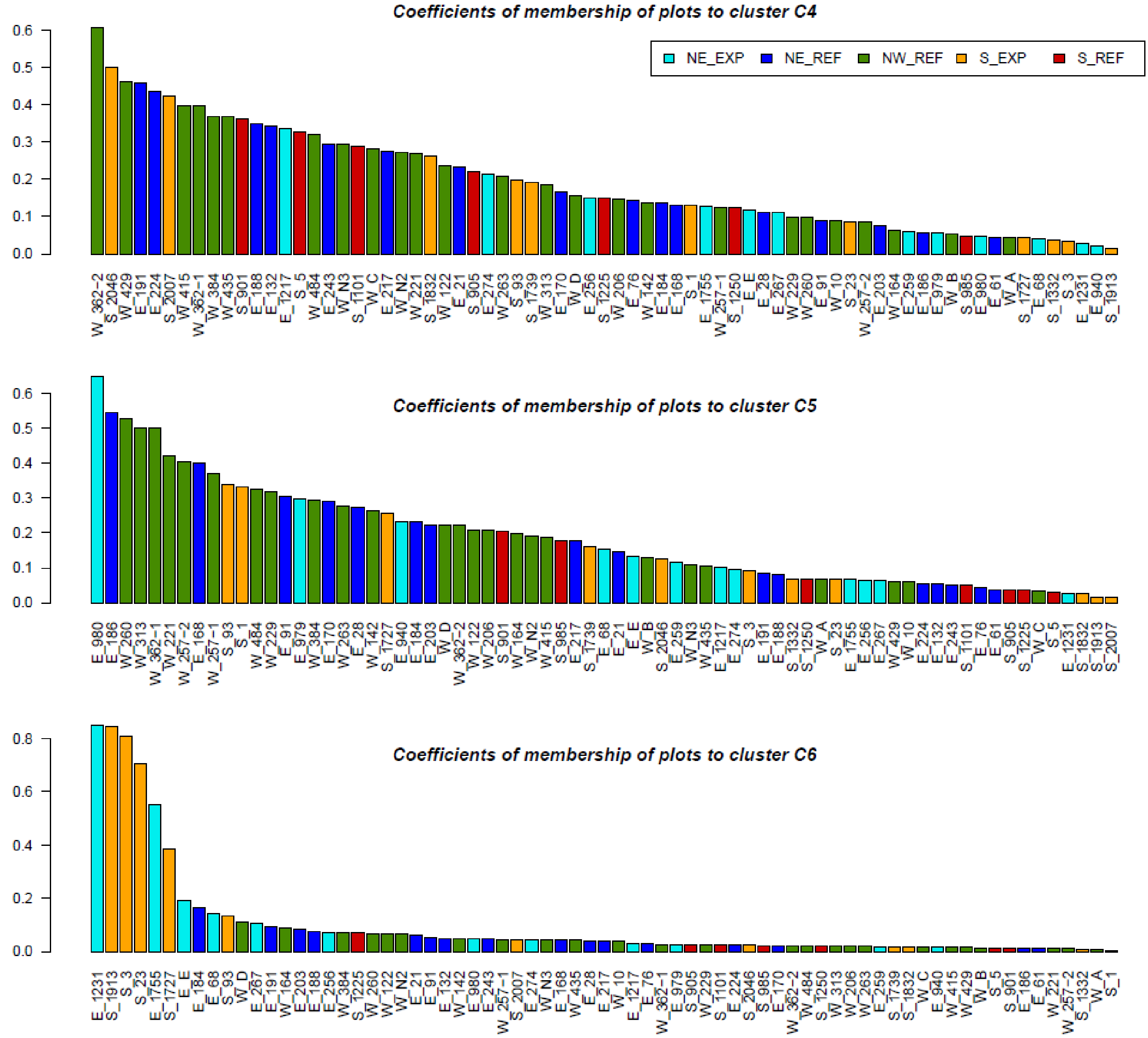
(d) K=6


Coefficients of membership of plots to cluster C1
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
0.0
0.1
0.2
0.3
0.4
0.5
0.6
S_905 W_164 E_68 W_A W_C E_274 S_1101 W_10 W_N2 W_N3 W_142 W_257-1 W_B E_259 W_263 E_224 E_243 W_229 E_28 E_76 W_206 S_2007 E_E W_435 S_1739 E_203 S_985 S_1 E_979 E_217 E_980 E_256 W_415 W_429 W_122 S_1727 E_91 E_186 W_257-2 S_1832 W_D E_188 E_191 E_132 W_221 W_384 E_940 W_313 E_21 W_484 S_1332 E_267 S_5 E_1755 S_1250 E_184 S_93 E_168 S_2046 E_61 W_260 S_1225 W_362-1 W_362-2 E_170 S_901 S_23 E_1217 S_1913 S_3 E_1231

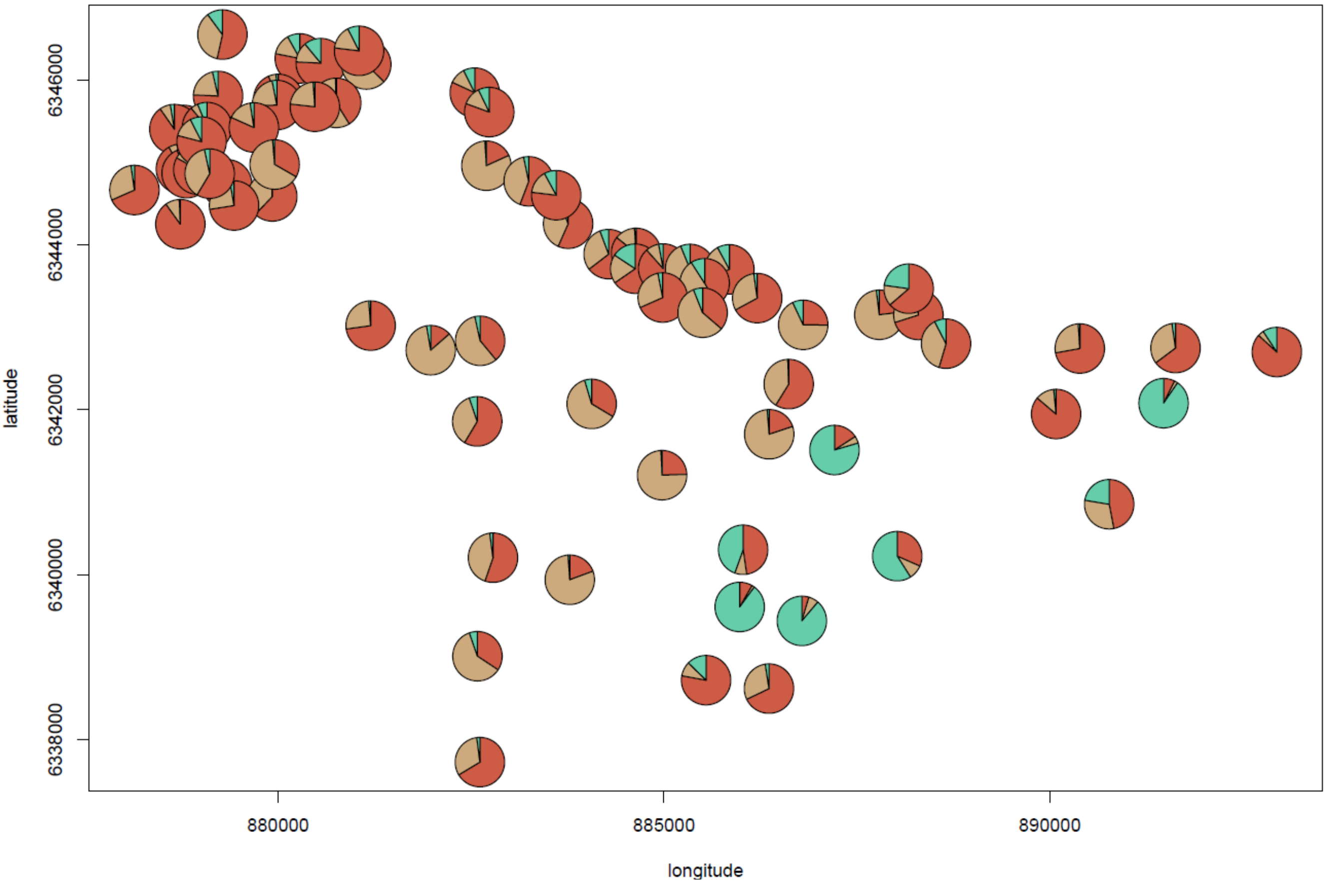

Coefficients of membership of plots to cluster C2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
E_940 E_259 E_1217 W_B S_1225 E_76 E_132 W_10 W_D S_5 W_206 S_1739 E_256 E_21 E_E W_429 E_170 S_93 E_188 W_142 E_217 E_91 E_28 W_313 W_229 E_184 S_2007 S_901 W_263 E_224 S_985 W_A S_1727 W_C W_260 W_484 W_221 E_274 W_415 E_61 E_243 W_435 W_384 E_1755 W_257-2 S_23 S_1 W_122 S_1332 E_1231 S_905 E_186 S_1250 W_362-2 W_N3 S_1832 W_164 E_191 E_979 S_2046 E_203 E_980 W_N2 W_257-1 E_168 S_1101 E_68 S_3 W_362-1 S_1913 E_267


Coefficients of membership of plots to cluster C3
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
E_61 S_1332 S_1250 E_267 S_1832 S_985 E_979 E_203 E_168 S_1225 W_257-2 W_122 W_A E_170 S_1 E_256 S_2046 E_91 E_184 E_243 S_5 S_901 E_186 E_21 E_191 E_188 W_N3 S_1101 W_435 E_76 W_260 W_484 E_217 E_28 W_257-1 W_229 W_415 S_1739 S_2007 E_1755 E_132 W_221 W_N2 E_274 W_384 E_68 S_1913 W_B W_C W_D E_E W_362-2 W_429 W_10 E_224 S_1727 S_93 W_206 E_1217 W_263 S_905 W_164 E_980 E_259 W_313 E_940 W_142 S_23 W_362-1 S_3 E_1231

(d) K=6 (end)

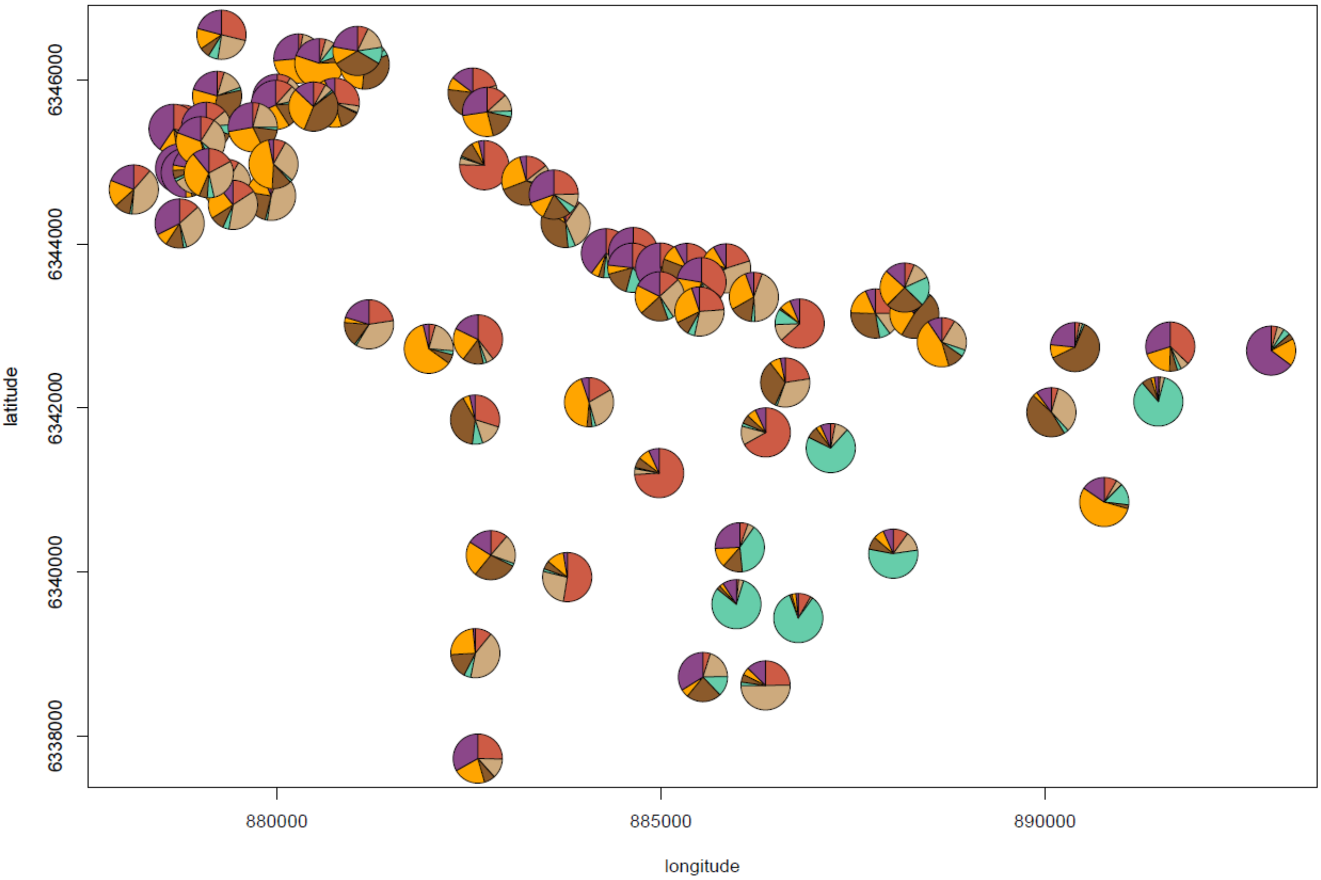

Coefficients of membership of plots to cluster C4
🟦 NE_EXP
🟦 NE_REF
🟩 NW_REF
🟧 S_EXP
🟥 S_REF
0.0
0.1
0.2
0.3
0.4
0.5
0.6
W_362-2
S_2046
W_429
E_191
E_224
S_2007
W_415
W_362-1
W_384
W_435
S_901
E_188
E_132
E_1217
S_5
W_484
E_243
W_N3
S_1101
W_C
E_217
W_N2
W_221
S_1832
W_122
E_21
S_905
E_274
W_263
S_93
S_1739
W_313
E_170
W_D
E_256
S_1225
W_206
E_76
W_142
E_184
E_168
S_1
E_1755
W_257-1
S_1250
E_E
E_28
E_267
W_229
W_260
E_91
W_10
S_23
W_257-2
E_203
W_164
E_259
E_186
E_979
W_B
S_985
E_980
E_61
W_A
S_1727
E_68
S_1332
S_3
E_1231
E_940
S_1913
Coefficients of membership of plots to cluster C5
0.0
0.1
0.2
0.3
0.4
0.5
0.6
E_980
E_186
W_260
W_313
W_362-1
W_221
W_257-2
E_168
W_257-1
S_93
S_1
W_484
W_229
E_91
E_979
W_384
E_170
W_263
E_28
W_142
S_1727
E_940
E_184
E_203
W_D
W_362-2
W_122
W_206
S_901
W_164
W_N2
W_415
S_985
E_217
S_1739
E_68
E_21
E_E
W_B
S_2046
E_259
W_N3
W_435
E_1217
E_274
S_3
E_191
E_188
S_1332
S_1250
W_A
S_23
E_1755
E_256
E_267
W_429
W_10
E_224
E_132
E_243
S_1101
E_76
E_61
S_905
S_1225
W_C
S_5
E_1231
S_1832
S_1913
S_2007
Coefficients of membership of plots to cluster C6
0.0
0.2
0.4
0.6
0.8
E_1231
S_1913
S_3
S_23
E_1755
S_1727
E_E
E_184
E_68
S_93
W_D
E_267
E_191
W_164
E_203
E_188
E_256
W_384
S_1225
W_260
W_122
W_N2
E_21
E_91
E_132
W_142
E_980
E_243
W_257-1
S_2007
E_274
W_N3
E_168
W_435
E_28
E_217
W_10
E_1217
E_76
W_362-1
E_979
S_905
W_229
S_1101
E_224
S_2046
S_985
E_170
W_362-2
W_484
S_1250
W_313
W_206
W_263
E_259
S_1739
S_1832
W_C
E_940
W_415
W_429
W_B
S_5
S_901
E_186
E_61
W_221
W_257-2
S_1332
W_A
S_1

(e) K=3



6346000
6344000
6342000
6340000
6338000
latitude
880000
885000
890000
longitude

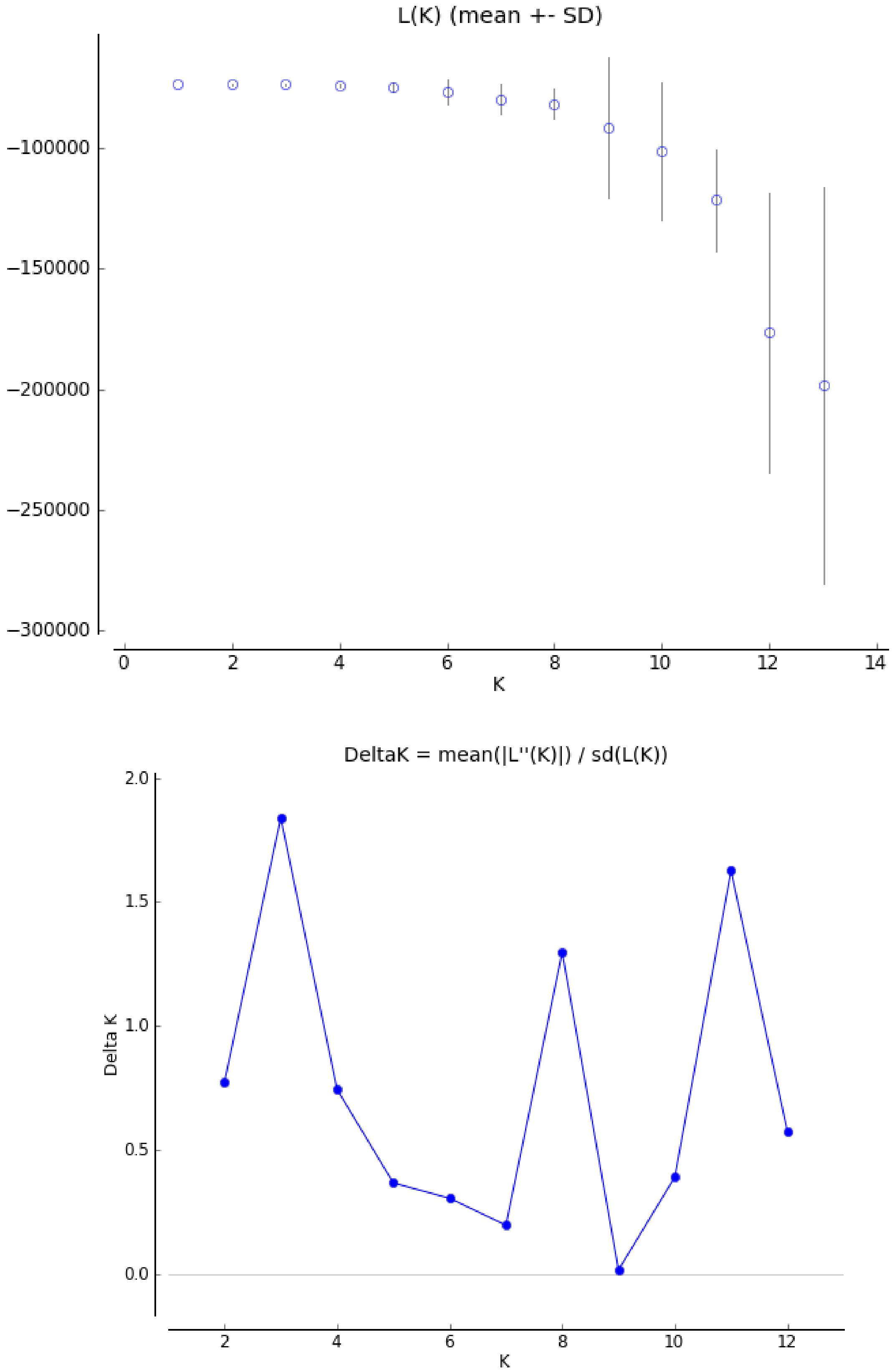
K=6



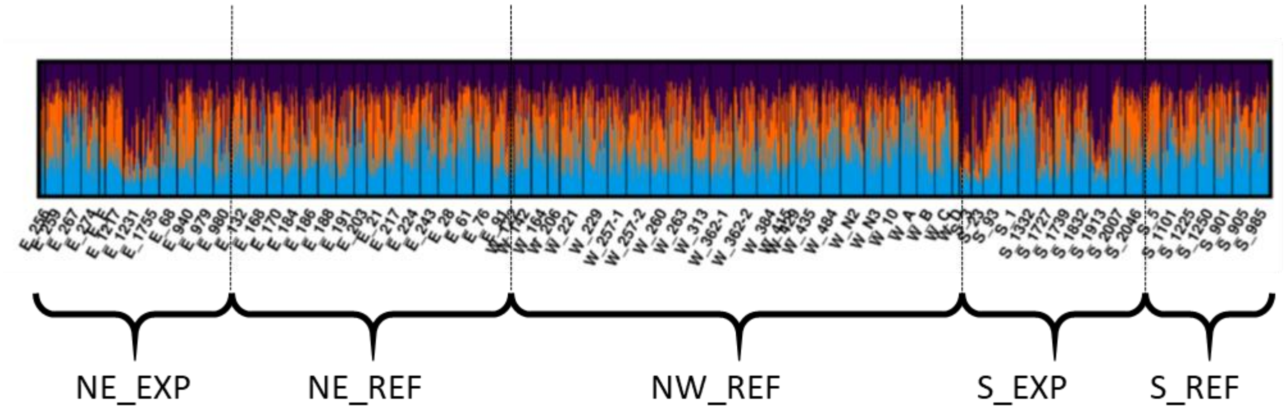
6346000
6344000
6342000
6340000
6338000
latitude
880000
885000
890000
longitude

Figure S5: Detailed results of STRUCTURE analyses without population identifier as a prior information. (a) Variation in the log-probability of data (L(K)) and of the statistics ΔK with K ; (b) Individual probability to belong to each cluster for K=3 (c) Spatial interpolates of the admixture coefficients estimated for K=3 (d) Coefficients of membership of plots for K=3.

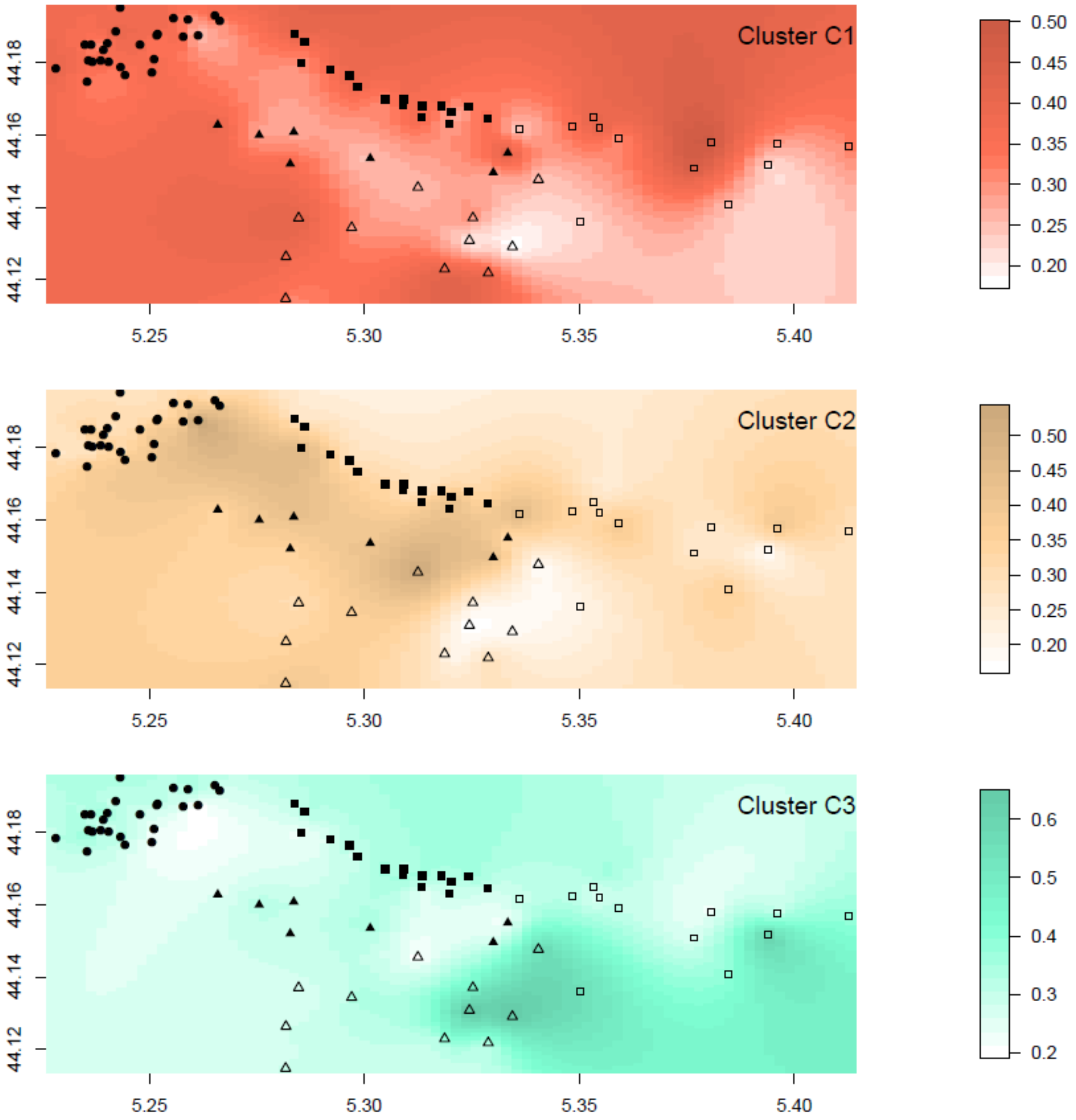
(a)



(b)


E_256
E_259
E_267
E_274
E_1217
E_1231
E_1755
E_68
E_940
E_979
E_980
E_132
E_168
E_170
E_184
E_186
E_188
E_191
E_203
E_21
E_217
E_224
E_243
E_28
E_61
E_76
E_91
W_142
W_164
W_206
W_221
W_229
W_257-1
W_257-2
W_260
W_263
W_313
W_362-1
W_362-2
W_384
W_416
W_429
W_435
W_484
W_N2
W_N3
W_10
W_A
W_B
W_C
W_D
S_3
S_23
S_93
S_1
S_1332
S_1727
S_1739
S_1832
S_1913
S_2007
S_2046
S_5
S_1101
S_1225
S_1250
S_901
S_905
S_985
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF

(c)


Cluster C1
Cluster C2
Cluster C3
44.12
44.14
44.16
44.18
5.25
5.30
5.35
5.40
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.6
0.5
0.4
0.3
0.2

(d)

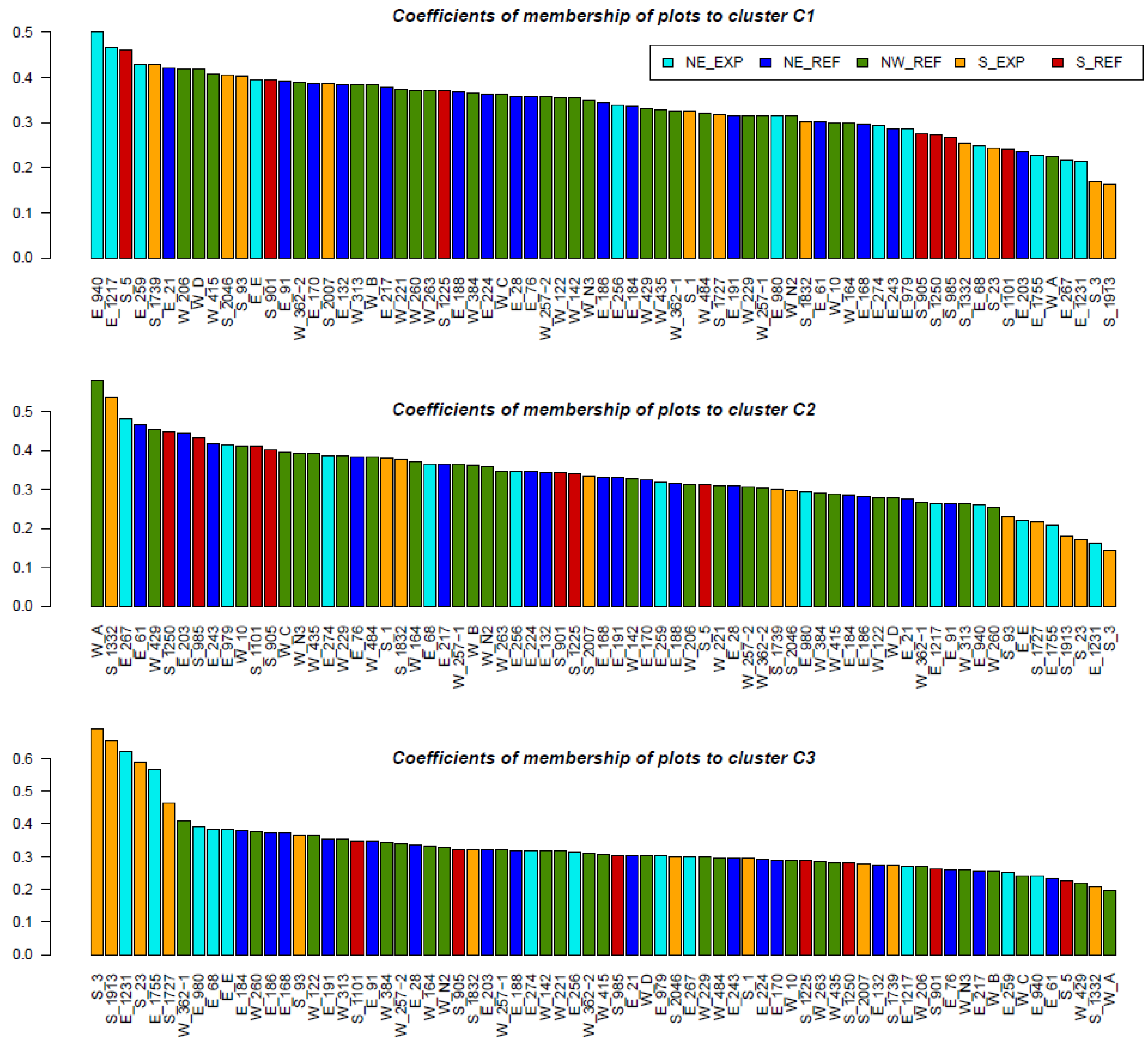
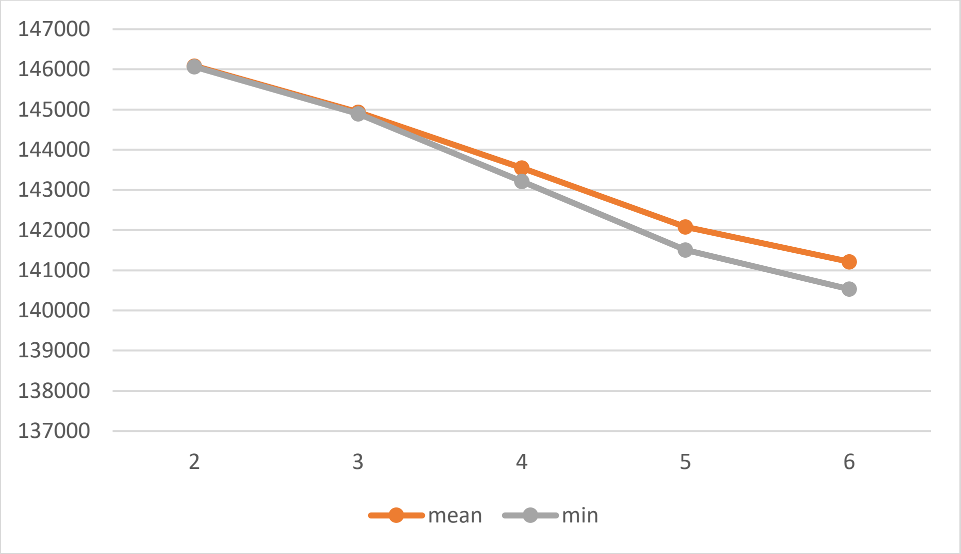

Coefficients of membership of plots to cluster C1
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
0.0
0.1
0.2
0.3
0.4
0.5
E_940 E_1217 S_5 E_259 S_1739 E_21 W_206 W_D W_415 S_2046 S_93 E_E S_901 E_91 W_362-2 E_170 S_2007 E_132 W_313 W_B E_217 W_221 W_260 W_263 S_1225 E_188 W_384 E_224 W_C E_28 E_76 W_257-2 W_122 W_142 W_N3 E_186 E_256 E_184 W_429 W_435 W_362-1 S_1 W_484 S_1727 E_191 W_229 W_257-1 E_980 W_N2 S_1832 E_61 W_10 W_164 E_168 E_274 E_243 E_979 S_905 S_1250 S_985 S_1332 E_68 S_23 S_1101 E_203 E_1755 W_A E_267 E_1231 S_3 S_1913
Coefficients of membership of plots to cluster C2
0.0
0.1
0.2
0.3
0.4
0.5
W_A S_1332 E_267 E_61 W_429 S_1250 E_203 S_985 E_243 E_979 W_10 S_1101 S_905 W_C W_N3 W_435 E_274 W_229 E_76 W_484 S_1 S_1832 W_164 E_68 E_217 W_257-1 W_B W_N2 W_263 E_256 E_224 E_132 S_901 S_1225 S_2007 E_168 E_191 W_142 E_170 E_259 E_188 W_206 S_5 W_221 E_28 W_257-2 W_362-2 S_1739 S_2046 E_980 W_384 W_415 E_184 E_186 W_122 W_D E_21 W_362-1 E_1217 E_91 W_313 E_940 W_260 S_93 E_E S_1727 E_1755 S_1913 S_23 E_1231 S_3
Coefficients of membership of plots to cluster C3
0.0
0.1
0.2
0.3
0.4
0.5
0.6
S_3 S_1913 E_1231 S_23 E_1755 S_1727 W_362-1 E_980 E_68 E_E E_184 W_260 E_186 E_168 S_93 W_122 E_191 W_313 S_1101 E_91 W_384 W_257-2 E_28 W_164 W_N2 S_905 S_1832 E_203 W_257-1 E_188 E_274 W_142 W_221 E_256 W_362-2 W_415 S_985 E_21 W_D E_979 S_2046 E_267 W_229 W_484 E_243 S_1 E_224 E_170 W_10 S_1225 W_263 W_435 S_1250 S_2007 E_132 S_1739 E_1217 W_206 S_901 E_76 W_N3 E_217 W_B E_259 W_C E_940 E_61 S_5 W_429 S_1332 W_A

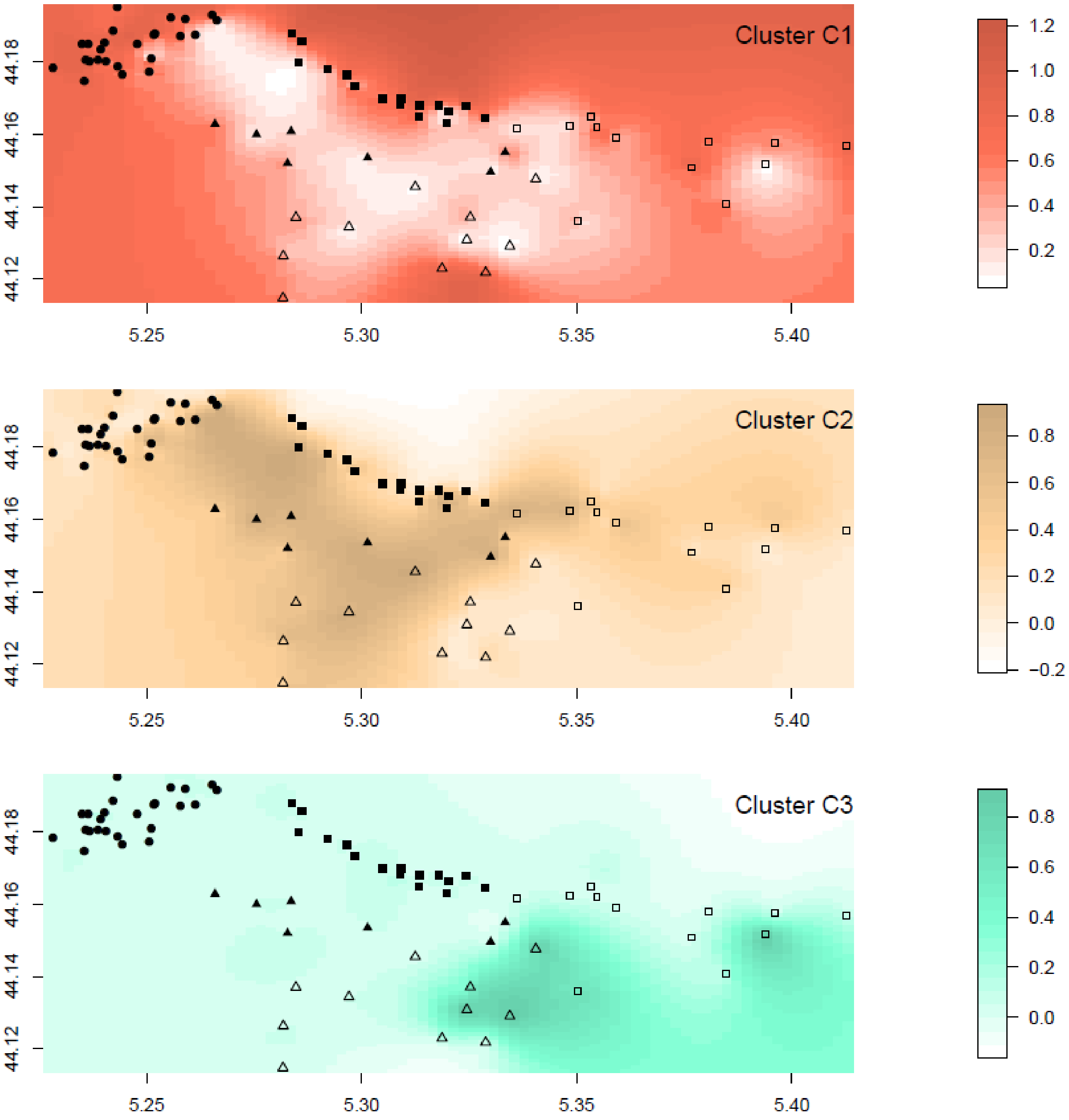
Figure S6: Detailed results of TESS output

(a) Variation in DIC with K ; (b) Spatial interpolates of the admixture coefficients estimated for different K values (c) Coefficients of membership of plots for K=2, K=3 and K=6

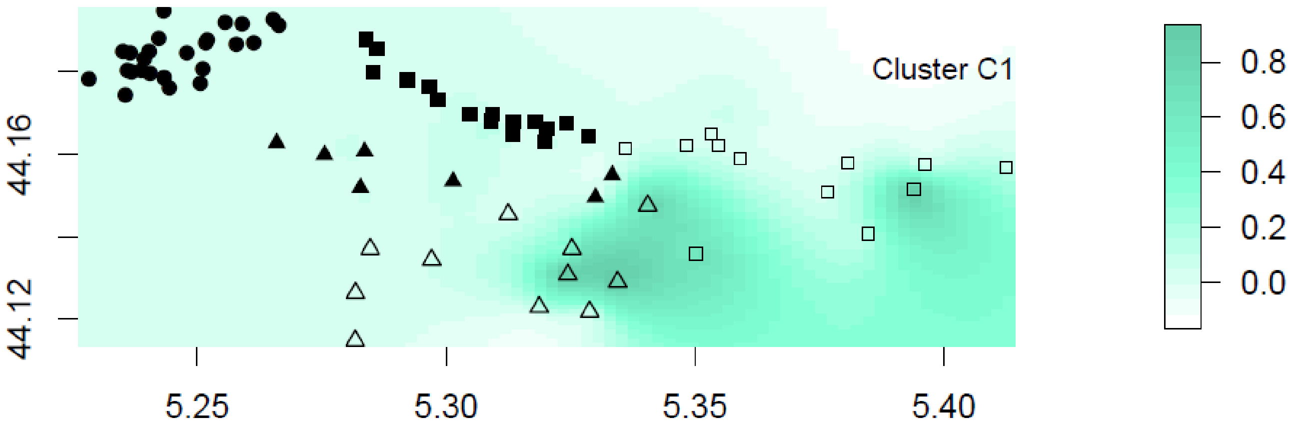
(a)

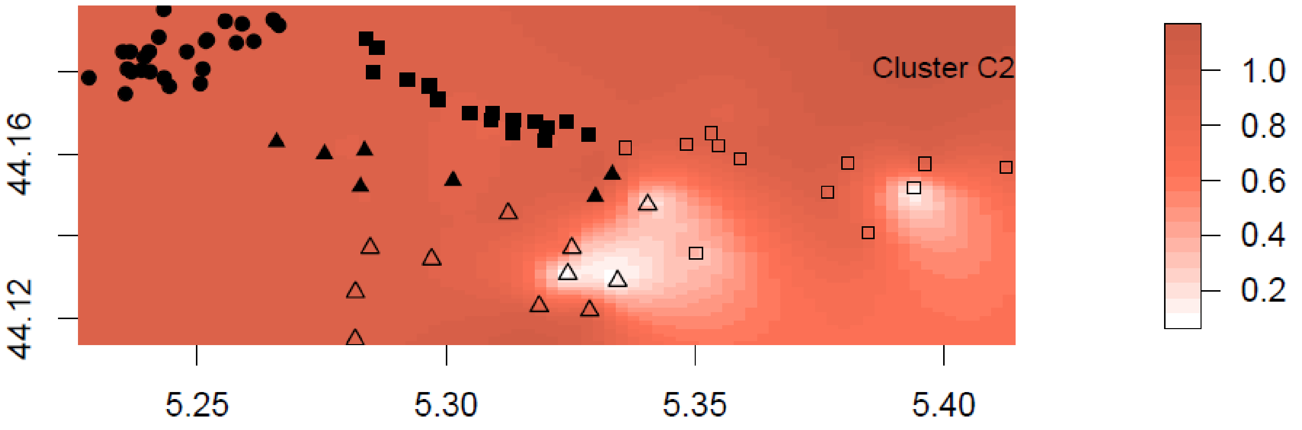


(b) K=3

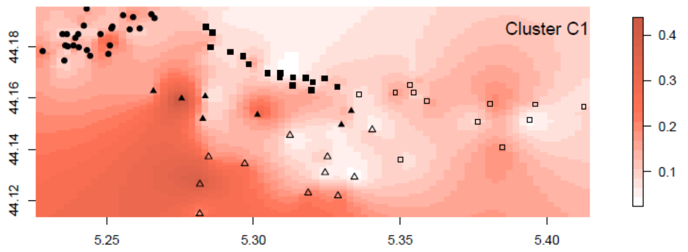

Cluster C1
Cluster C2
Cluster C3
44.12
44.14
44.16
44.18
5.25
5.30
5.35
5.40
1.2
1.0
0.8
0.6
0.4
0.2
0.8
0.6
0.4
0.2
0.0
−0.2
0.8
0.6
0.4
0.2
0.0

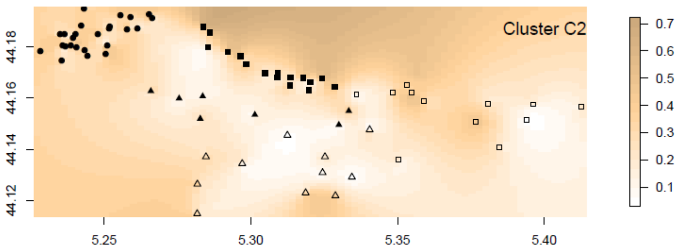
K=2

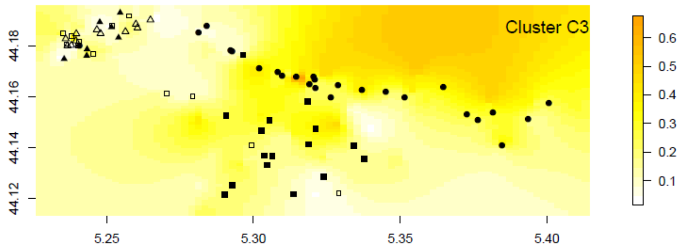

Cluster C1
44.16
44.12
5.25
5.30
5.35
5.40
0.8
0.6
0.4
0.2
0.0

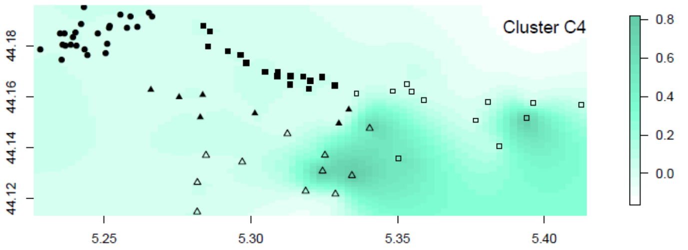

Cluster C2
44.16
44.12
5.25
5.30
5.35
5.40
1.0
0.8
0.6
0.4
0.2

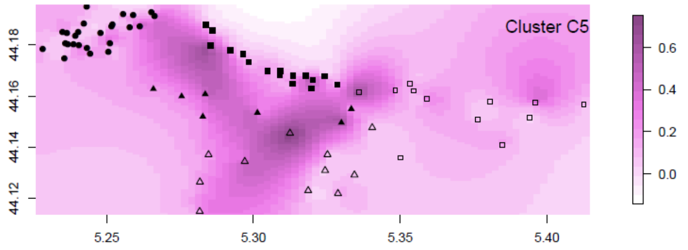
K=6

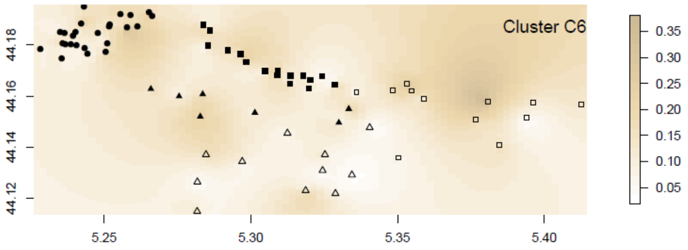

Cluster C1
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
0.4
0.3
0.2
0.1


Cluster C2
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
0.7
0.6
0.5
0.4
0.3
0.2
0.1

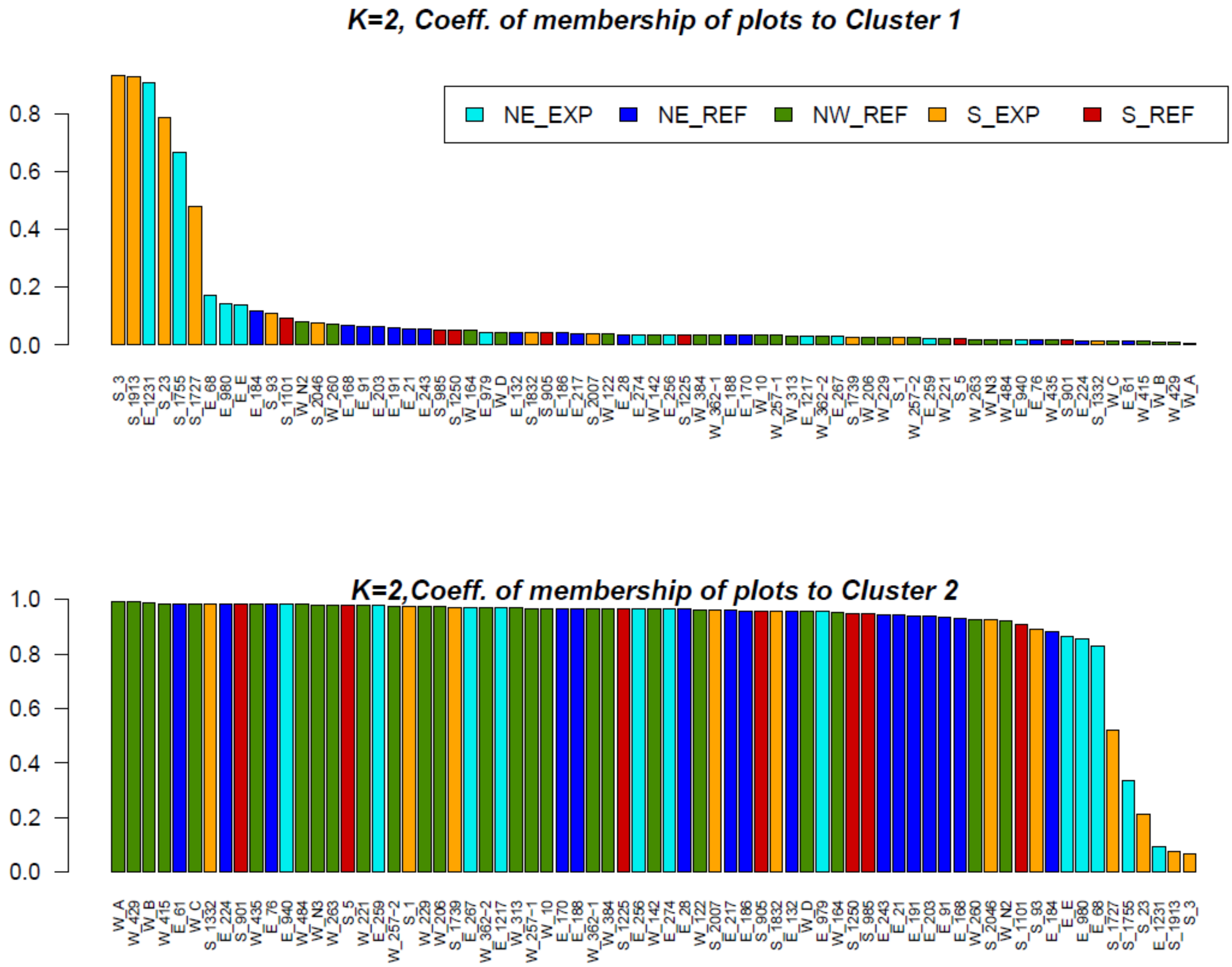

Cluster C3
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
0.6
0.5
0.4
0.3
0.2
0.1


Cluster C4
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
0.8
0.6
0.4
0.2
0.0

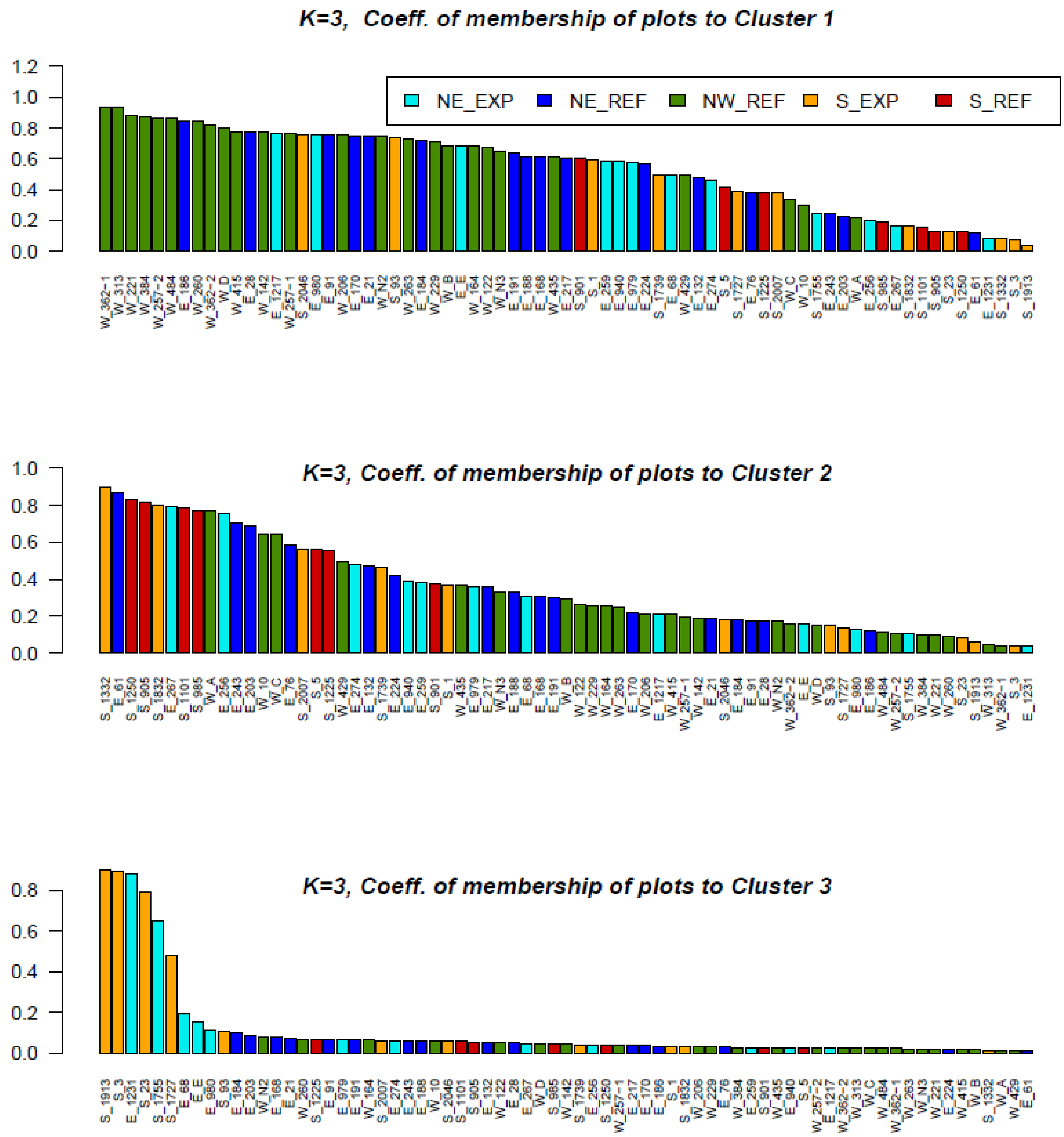

Cluster C5
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
0.6
0.4
0.2
0.0


Cluster C6
44.18
44.16
44.14
44.12
5.25
5.30
5.35
5.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05

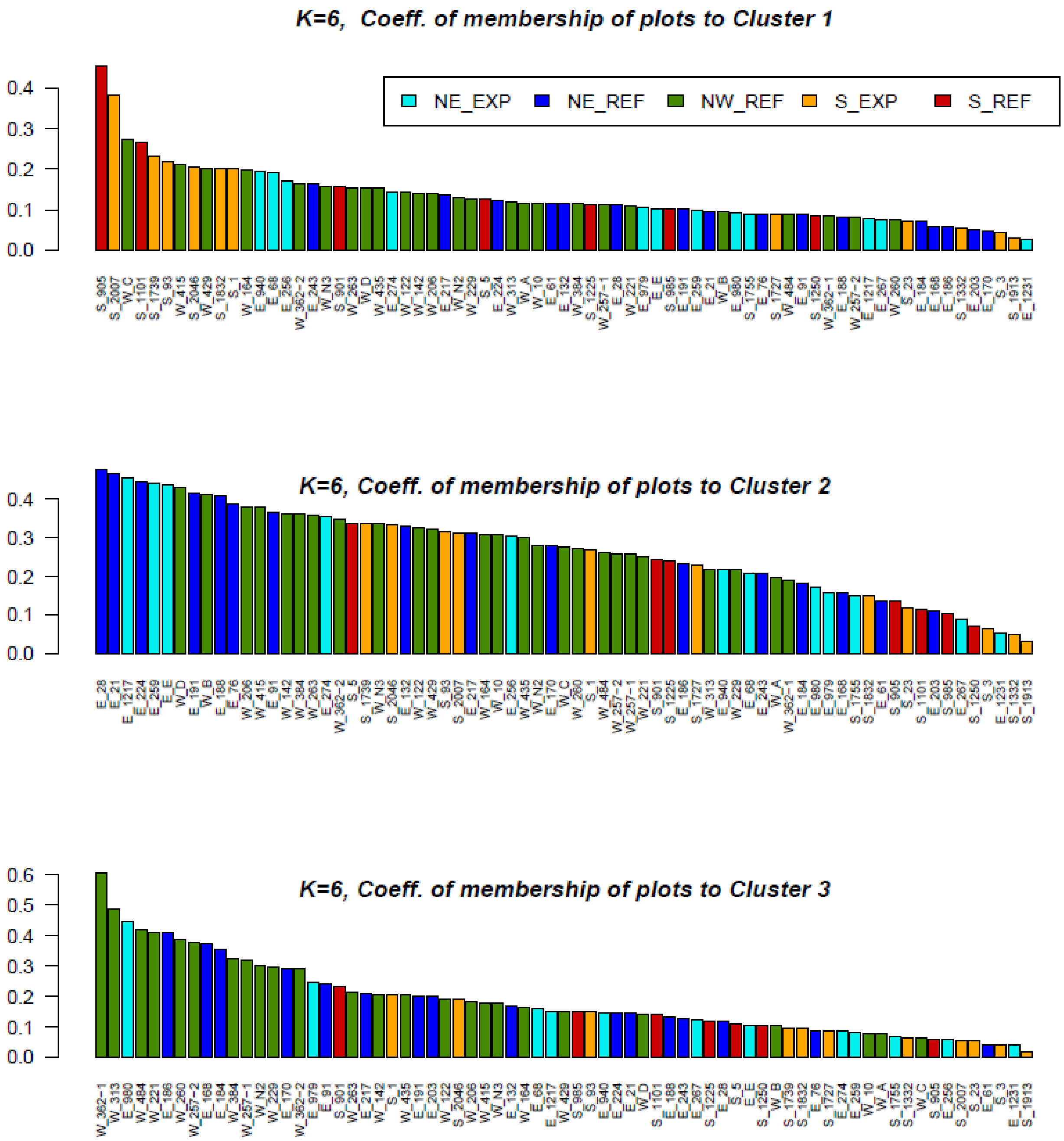
(c)

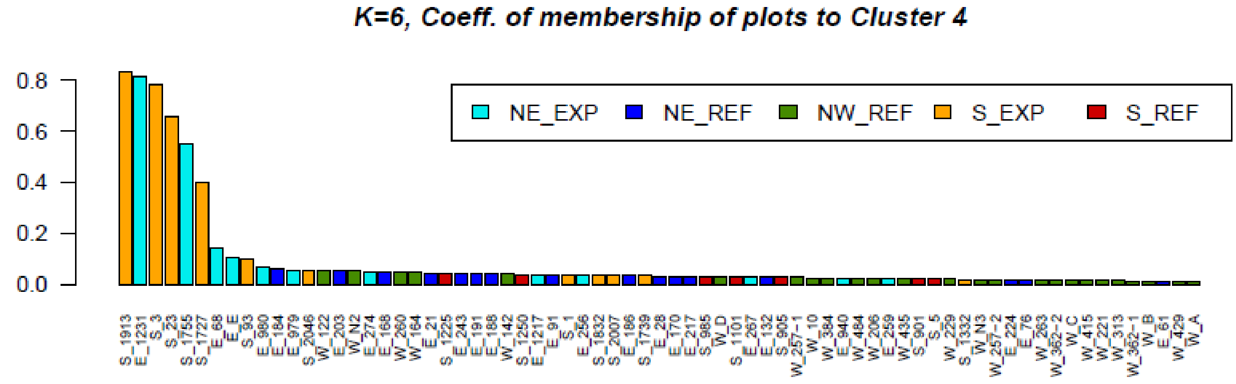

K=2, Coeff. of membership of plots to Cluster 1
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
0.8
0.6
0.4
0.2
0.0
S_3
S_1913
E_1231
S_23
S_1755
S_1727
E_68
E_980
E_E
E_184
S_93
S_1101
W_N2
S_2046
W_260
E_168
E_91
E_203
E_191
E_21
E_243
S_985
S_1250
W_164
E_979
W_D
E_132
S_1832
S_905
E_186
E_217
S_2007
W_122
E_28
E_274
W_142
E_256
S_1225
W_384
W_362−1
E_188
E_170
W_10
W_257−1
W_313
E_1217
W_362−2
E_267
S_1739
W_206
W_229
S_1
W_257−2
E_259
W_221
S_5
W_263
W_N3
W_484
E_940
E_76
W_435
S_901
E_224
S_1332
W_C
E_61
W_415
W_B
W_429
W_A
K=2,Coeff. of membership of plots to Cluster 2
1.0
0.8
0.6
0.4
0.2
0.0
W_A
W_429
W_B
W_415
E_61
W_C
S_1332
E_224
S_901
W_435
E_76
E_940
W_484
W_N3
W_263
S_5
W_221
E_259
W_257−2
S_1
W_229
W_206
S_1739
E_267
W_362−2
E_1217
W_313
W_257−1
W_10
E_170
E_188
W_362−1
W_384
S_1225
E_256
W_142
E_274
E_28
W_122
S_2007
E_217
E_186
S_905
S_1832
E_132
W_D
E_979
W_164
S_1250
S_985
E_243
E_21
E_191
E_203
E_91
E_168
W_260
S_2046
W_N2
S_1101
S_93
E_184
E_E
E_980
E_68
S_1727
S_1755
S_23
E_1231
S_1913
S_3

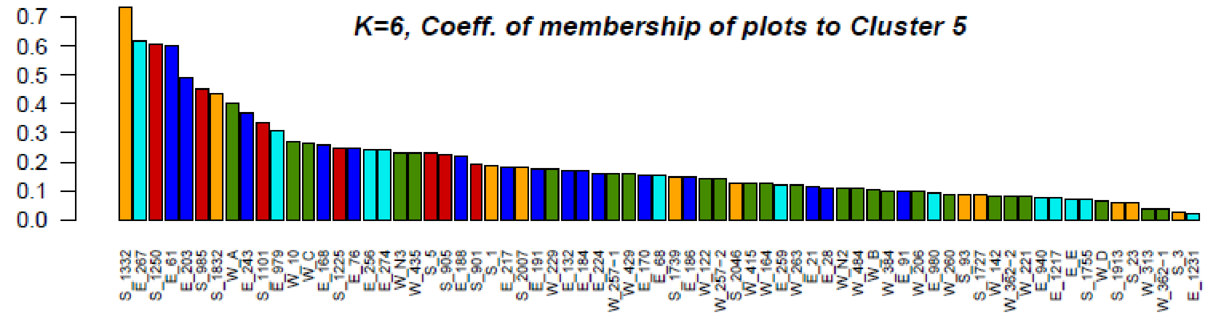
(c)


K=3, Coeff. of membership of plots to Cluster 1
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
1.2
1.0
0.8
0.6
0.4
0.2
0.0
W_362-1
W_313
W_221
W_384
W_257-2
W_484
E_186
W_260
W_362-2
W_D
W_415
E_28
W_142
E_1217
W_257-1
S_2046
E_980
E_91
W_206
E_170
E_21
W_N2
S_93
W_263
E_184
W_229
W_B
E_E
W_164
W_122
W_N3
E_191
E_188
E_168
W_435
E_217
S_901
S_1
E_259
E_940
E_979
E_224
S_1739
E_68
W_429
E_132
E_274
S_5
S_1727
E_76
S_1225
S_2007
W_C
W_10
S_1755
E_243
E_203
W_A
E_256
S_985
E_267
S_1832
S_1101
S_905
S_23
S_1250
E_61
E_1231
S_1332
S_3
S_1913
K=3, Coeff. of membership of plots to Cluster 2
1.0
0.8
0.6
0.4
0.2
0.0
S_1332
E_61
S_1250
S_905
S_1832
E_267
S_1101
S_985
W_A
E_256
E_243
E_203
W_10
W_C
E_76
S_2007
S_5
S_1225
W_429
E_274
E_132
S_1739
E_224
E_940
E_259
S_901
S_1
W_435
E_979
E_217
W_N3
E_188
E_68
E_168
E_191
W_B
W_122
W_229
W_164
W_263
E_170
W_206
E_1217
W_415
W_257-1
W_142
E_21
S_2046
E_184
E_91
E_28
W_N2
W_362-2
E_E
W_D
S_93
S_1727
E_980
E_186
W_484
W_257-2
S_1755
W_384
W_221
W_260
S_23
S_1913
W_313
W_362-1
S_3
E_1231
K=3, Coeff. of membership of plots to Cluster 3
0.8
0.6
0.4
0.2
0.0
S_1913
S_3
E_1231
S_23
S_1755
S_1727
E_68
E_E
E_980
S_93
E_184
E_203
W_N2
E_168
E_21
W_260
S_1225
E_91
E_979
E_191
W_164
S_2007
E_274
E_243
E_188
W_10
S_2046
S_1101
S_905
E_132
W_122
E_28
E_267
W_D
S_985
W_142
S_1739
E_256
S_1250
W_257-1
E_217
E_170
E_186
S_1
S_1832
W_206
W_229
E_76
W_384
E_259
S_901
W_435
E_940
S_5
W_257-2
E_1217
W_362-2
W_313
W_C
W_484
W_362-1
W_263
W_N3
W_221
E_224
W_415
W_B
S_1332
W_A
W_429
E_61

(c)


K=6, Coeff. of membership of plots to Cluster 1
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
0.0
0.1
0.2
0.3
0.4
S_905
S_2007
W_C
S_1101
S_1739
S_93
W_415
S_2046
W_429
S_1832
S_1
W_164
E_940
E_68
E_256
W_362−2
E_243
W_N3
S_901
W_263
W_D
W_435
E_274
W_122
W_142
W_206
E_217
W_N2
W_229
S_5
E_224
W_313
W_A
W_10
E_61
E_132
W_384
S_1225
W_257−1
E_28
W_221
E_979
E_E
S_985
E_191
E_259
E_21
W_B
E_980
S_1755
E_76
S_1727
W_484
E_91
S_1250
W_362−1
E_188
W_257−2
E_1217
E_267
W_260
S_23
E_184
E_168
E_186
S_1332
E_203
E_170
S_3
S_1913
E_1231
K=6, Coeff. of membership of plots to Cluster 2
0.0
0.1
0.2
0.3
0.4
E_28
E_21
E_1217
E_224
E_259
E_E
W_D
E_191
W_B
E_188
E_76
W_206
W_415
E_91
W_142
W_384
W_263
E_274
W_362−2
S_5
S_1739
W_N3
S_2046
E_132
W_122
W_429
S_93
S_2007
E_217
W_164
W_10
E_256
W_435
W_N2
E_170
W_C
W_260
S_1
W_484
W_257−2
W_257−1
W_221
S_901
S_1225
E_186
S_1727
W_313
E_940
W_229
E_68
E_243
W_A
W_362−1
E_184
E_980
E_979
E_168
S_1755
S_1832
E_61
S_905
S_23
S_1101
E_203
S_985
E_267
S_1250
S_3
E_1231
S_1332
S_1913
K=6, Coeff. of membership of plots to Cluster 3
0.0
0.1
0.2
0.3
0.4
0.5
0.6
W_362−1
W_313
E_980
W_484
W_221
E_186
W_260
W_257−2
E_168
E_184
W_384
W_257−1
W_N2
W_229
E_170
W_362−2
E_979
E_91
S_901
W_263
E_217
W_142
S_1
W_435
E_191
E_203
W_122
S_2046
W_206
W_415
W_N3
E_132
W_164
E_68
E_1217
W_429
S_985
S_93
E_940
E_224
E_21
W_D
S_1101
E_188
E_243
E_267
S_1225
E_28
S_5
E_E
S_1250
W_B
S_1739
S_1832
E_76
S_1727
E_274
E_259
W_10
W_A
S_1755
S_1332
W_C
S_905
E_256
S_2007
S_23
E_61
S_3
E_1231
S_1913


K=6, Coeff. of membership of plots to Cluster 4
0.8
0.6
0.4
0.2
0.0
NE_EXP
NE_REF
NW_REF
S_EXP
S_REF
S_1913
E_1231
S_3
S_23
S_1755
S_1727
E_68
E_E
S_93
E_980
E_184
E_979
S_2046
W_122
E_203
W_N2
E_274
E_168
W_260
W_164
E_21
S_1225
E_243
E_191
E_188
W_142
S_1250
E_1217
E_91
S_1
E_256
S_1832
S_2007
E_186
S_1739
E_28
E_170
E_217
S_985
W_D
S_1101
E_267
E_132
S_905
W_257-1
W_10
W_384
E_940
W_484
W_206
E_259
W_435
S_901
S_5
W_229
S_1332
W_N3
W_257-2
E_224
E_76
W_263
W_362-2
W_C
W_415
W_221
W_313
W_362-1
W_B
E_61
W_429
W_A


K=6, Coeff. of membership of plots to Cluster 5
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
S_1332
E_267
S_1250
E_61
E_203
S_985
S_1832
W_A
E_243
S_1101
E_979
W_10
W_C
E_168
S_1225
E_76
E_256
E_274
W_N3
W_435
S_5
S_905
E_188
S_901
S_1
E_217
S_2007
E_191
W_229
E_132
E_184
E_224
W_257-1
W_429
E_170
E_68
S_1739
E_186
W_122
W_257-2
S_2046
W_415
W_164
E_259
W_263
E_21
E_28
W_N2
W_484
W_B
W_384
E_91
W_206
E_980
W_260
S_93
S_1727
W_142
W_362-2
W_221
E_940
E_1217
E_E
S_1755
W_D
S_1913
S_23
W_313
W_362-1
S_3
E_1231

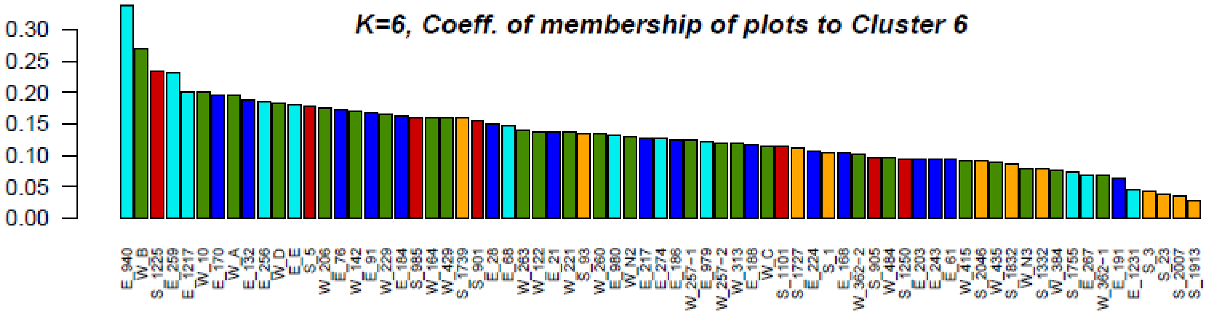
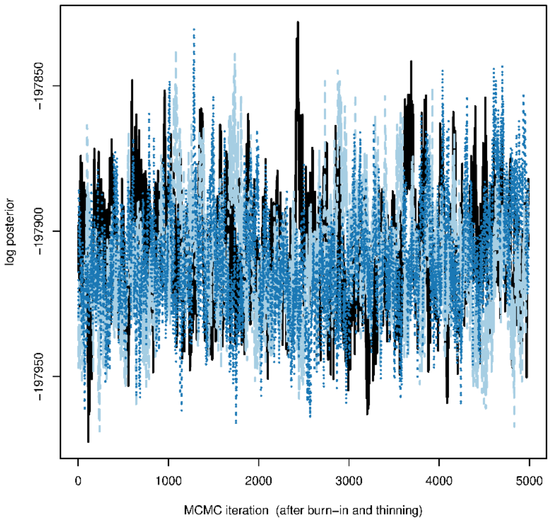
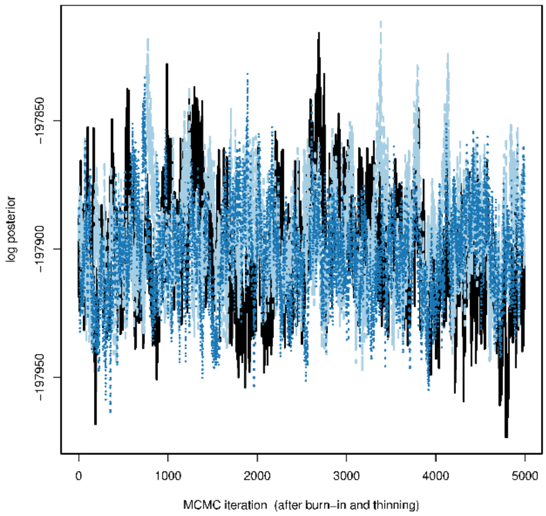
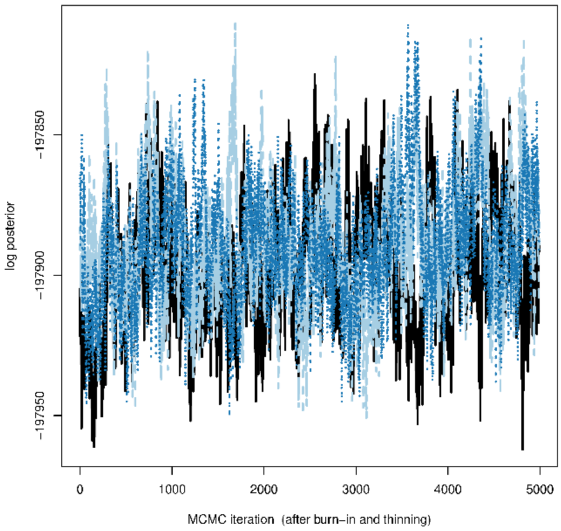
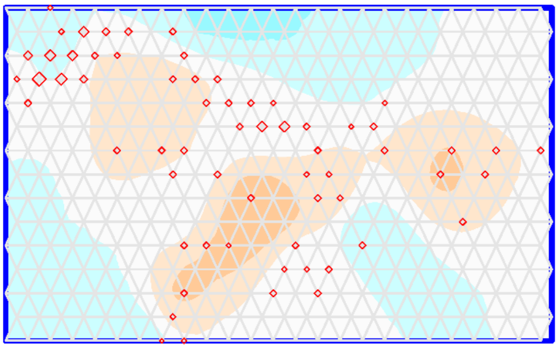
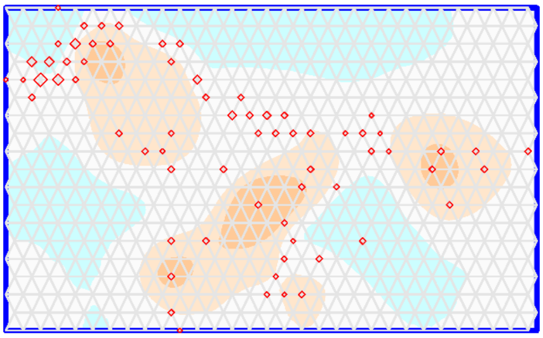
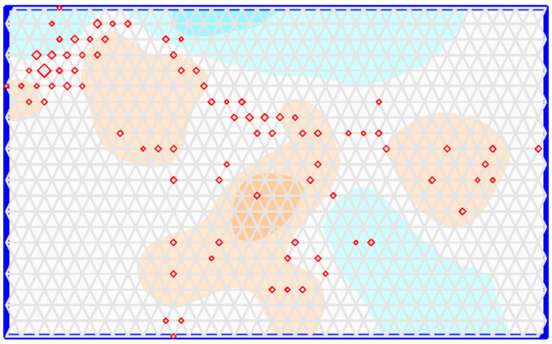
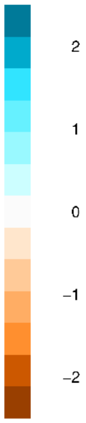

K=6, Coeff. of membership of plots to Cluster 6
0.30
0.25
0.20
0.15
0.10
0.05
0.00
E_940
W_B
S_1225
E_259
E_1217
W_10
E_170
W_A
E_132
E_256
W_D
E_E
S_5
W_206
E_76
W_142
E_91
W_229
E_184
S_985
W_164
W_429
S_1739
S_901
E_28
E_68
W_263
W_122
E_21
W_221
S_93
W_260
E_980
W_N2
E_217
E_274
E_186
W_257-1
E_979
W_257-2
W_313
E_188
W_C
S_1101
S_1727
E_224
S_1
E_168
W_362-2
S_905
W_484
S_1250
E_203
E_243
E_61
W_415
S_2046
W_435
S_1832
W_N3
S_1332
W_384
S_1755
E_267
W_362-1
E_191
E_1231
S_3
S_23
S_2007
S_1913

Figure S7: Comparison of EEMS results for the three independent analyses (corresponding to 400, 600 or 800 demes)

(A) Posterior probability trace

400 demes	***600 demes***
	
800 demes	
	

(B) Effective migration surface, as represented by posterior migration rates on the log10 scale

400 demes	***600 demes***
	
800 demes	
	

(C) Effective diversity surface, as represented by posterior diversity rates q on the log10 scale