

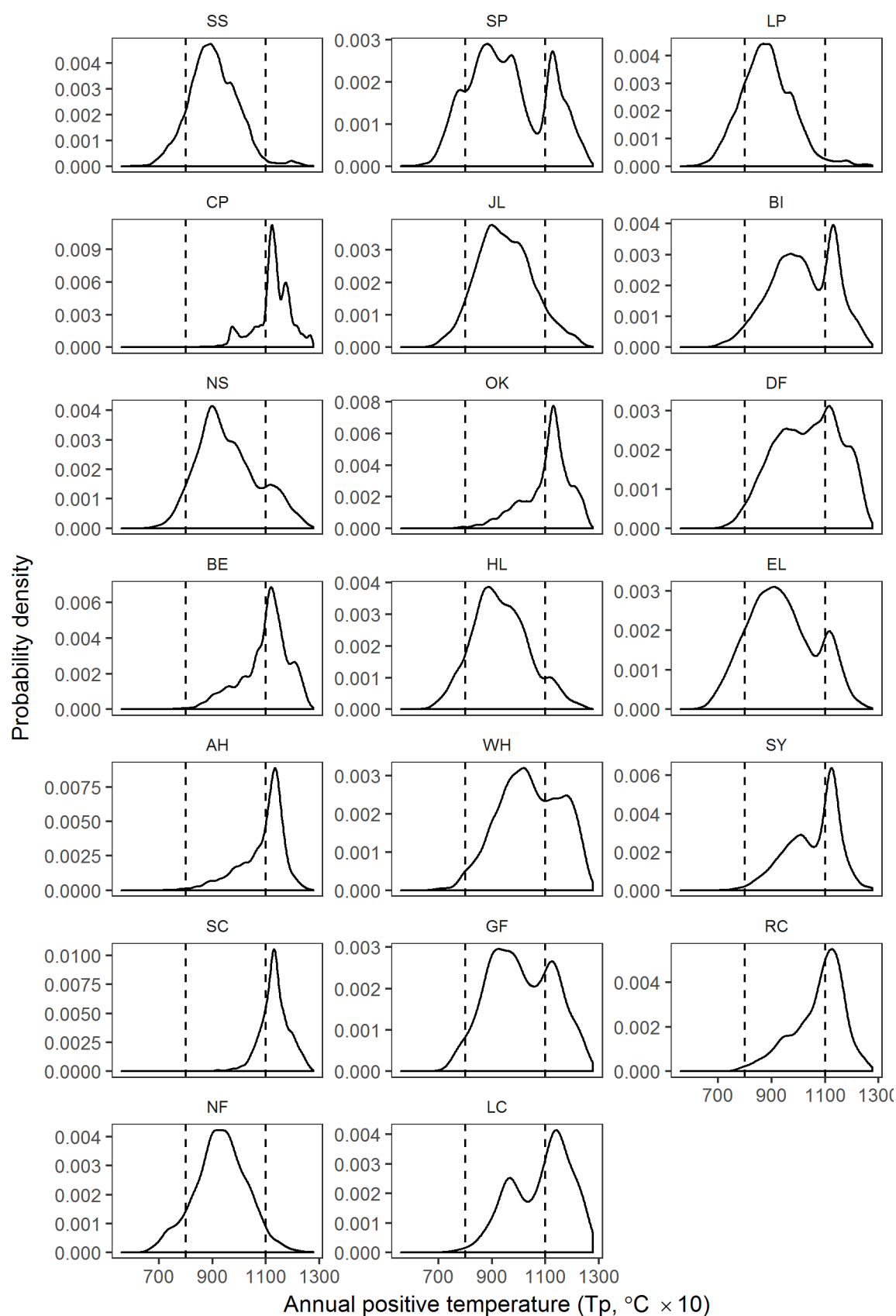
Priorities for research on emerging species

Appendices

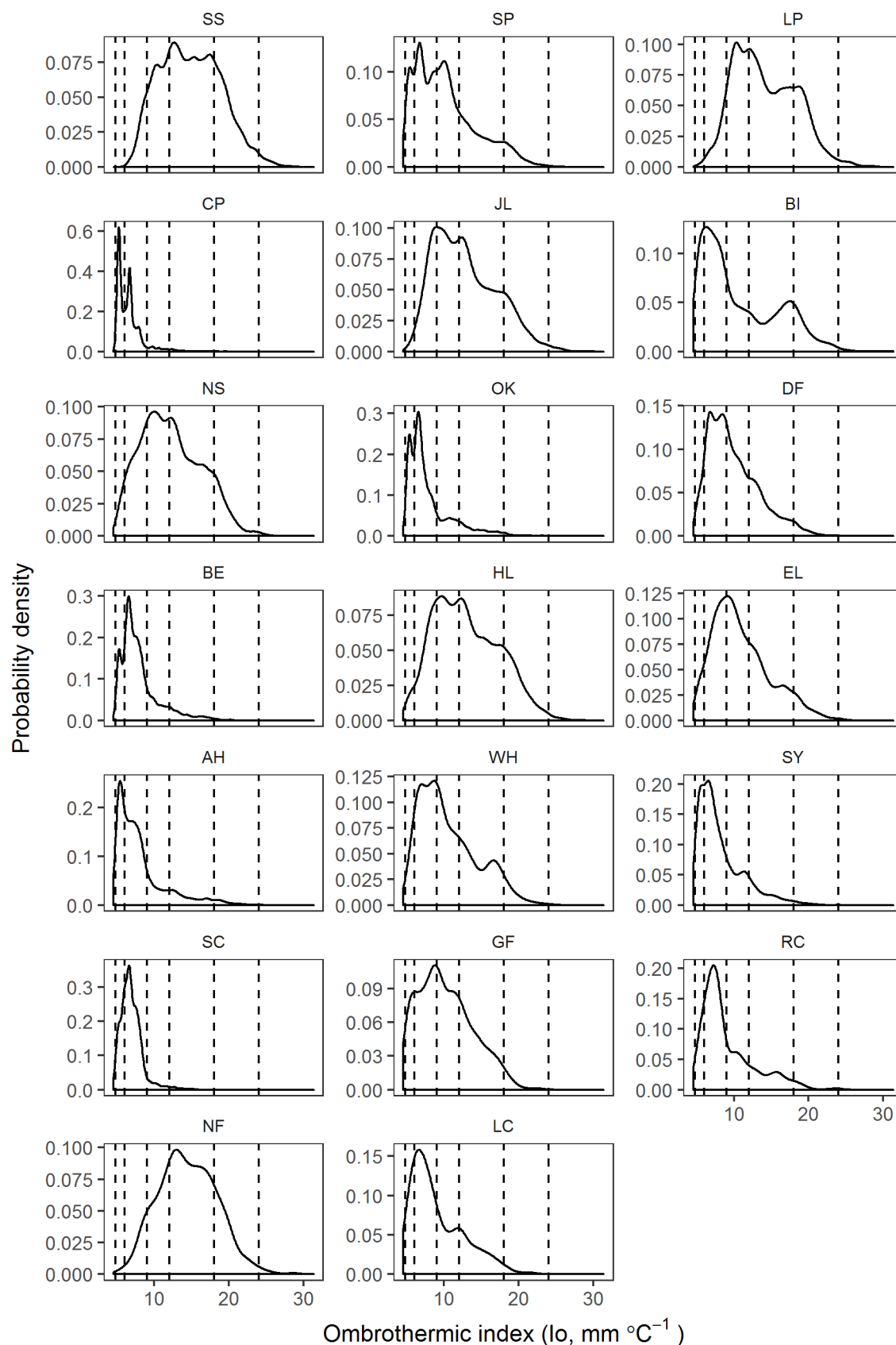
Richard Jinks

Forest Research is the Research Agency of the Forestry Commission and is the leading UK organisation engaged in forestry and tree related research. The Agency aims to support and enhance forestry and its role in sustainable development by providing innovative, high quality scientific research, technical support and consultancy services.

Appendix 1. Kernel density estimates for annual positive temperature (T_p) for 20 species. Vertical lines show boundaries of warm zones; for labels see Figure 11a of the main report.



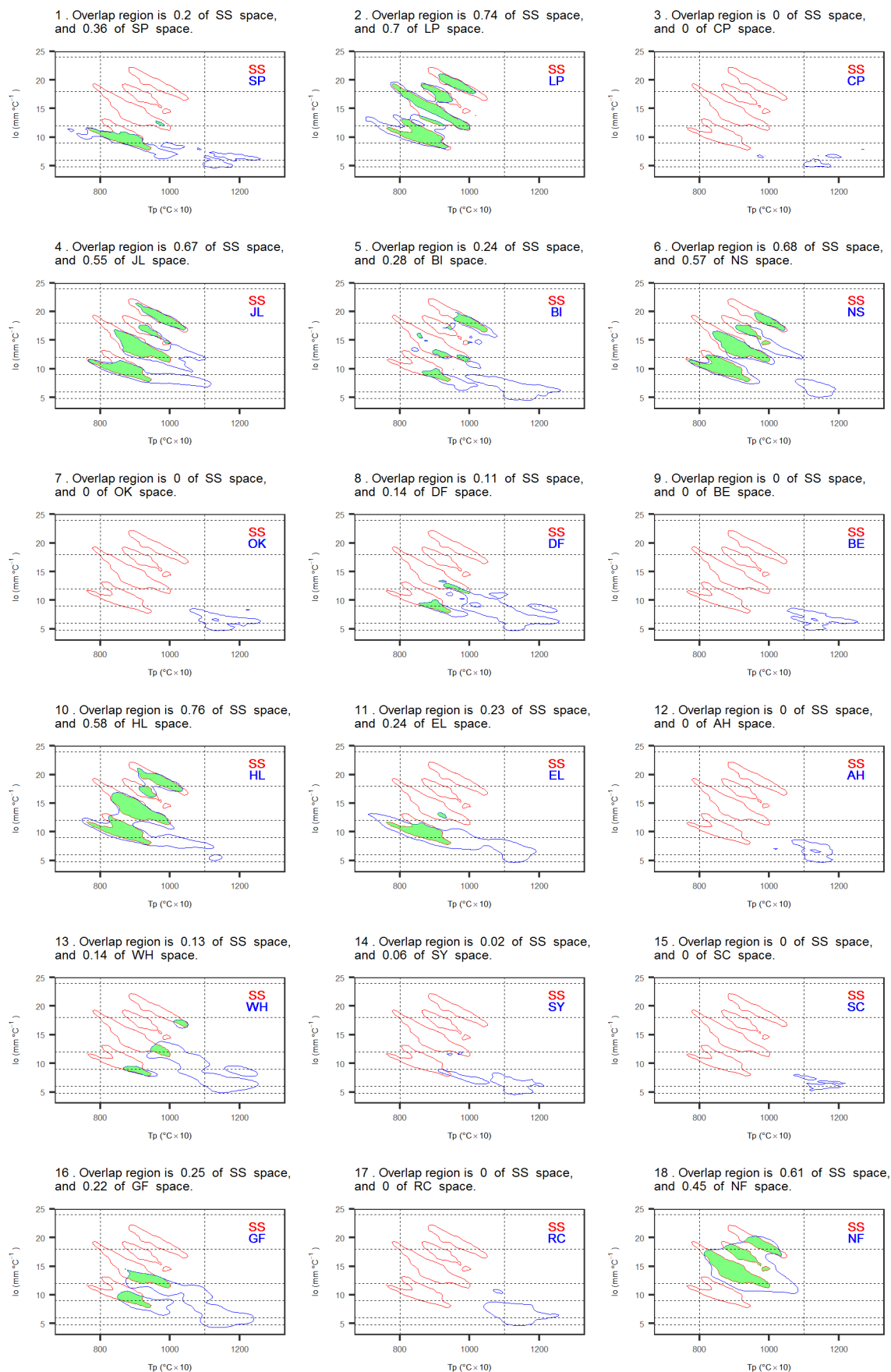
Appendix 2. . Kernel density estimates for ombrothermic index (I_o) for 20 species. Vertical lines show boundaries of wetness zones; for labels see Figure 11b of the main report.



Appendix 3. Fifty-percent density contours and overlaps in climate space (T_p and I_o) for pairwise combinations of 20 species. Overlap regions are filled with green, and overlap areas are calculated as proportions of the total climate space occupied by each species. Climate zones are separated by horizontal and vertical lines; labels for each division can be found in Figure 11c of the main report. The number of the graph for each pairwise combination is shown in the table.

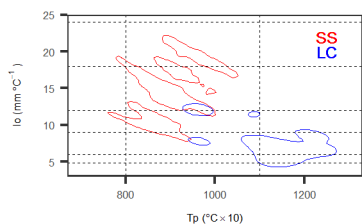
	SS	SP	LP	CP	JL	BI	NS	OK	DF	BE	HL	EL	AH	WH	SY	SC	GF	RC	NF	LC
SS																				
SP	1																			
LP	2	20																		
CP	3	21	38																	
JL	4	22	39	55																
BI	5	23	40	56	71															
NS	6	24	41	57	72	86														
OK	7	25	42	58	73	87	100													
DF	8	26	43	59	74	88	101	113												
BE	9	27	44	60	75	89	102	114	125											
HL	10	28	45	61	76	90	103	115	126	136										
EL	11	29	46	62	77	91	104	116	127	137	146									
AH	12	30	47	63	78	92	105	117	128	138	147	155								
WH	13	31	48	64	79	93	106	118	129	139	148	156	163							
SY	14	32	49	65	80	94	107	119	130	140	149	157	164	170						
SC	15	33	50	66	81	95	108	120	131	141	150	158	165	171	176					
GF	16	34	51	67	82	96	109	121	132	142	151	159	166	172	177	181				
RC	17	35	52	68	83	97	110	122	133	143	152	160	167	173	178	182	185			
NF	18	36	53	69	84	98	111	123	134	144	153	161	168	174	179	183	186	188		
LC	19	37	54	70	85	99	112	124	135	145	154	162	169	175	180	184	187	189	190	

Appendix 3

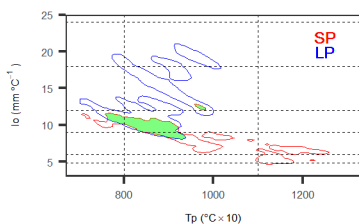


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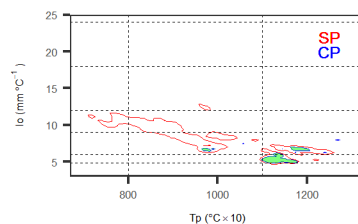
19. Overlap region is 0.05 of SS space, and 0.08 of LC space.



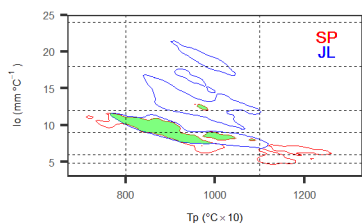
20. Overlap region is 0.41 of SP space, and 0.21 of LP space.



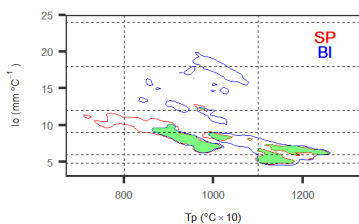
21. Overlap region is 0.12 of SP space, and 0.96 of CP space.



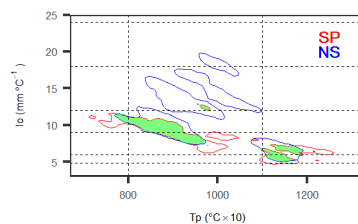
22. Overlap region is 0.53 of SP space, and 0.24 of JL space.



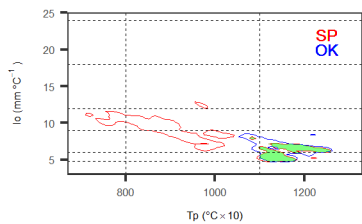
23. Overlap region is 0.62 of SP space, and 0.39 of BI space.



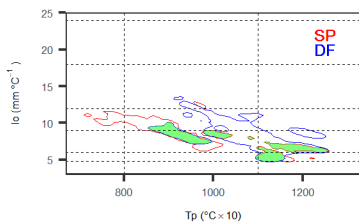
24. Overlap region is 0.62 of SP space, and 0.28 of NS space.



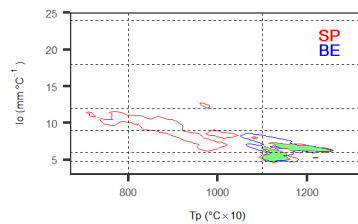
25. Overlap region is 0.26 of SP space, and 0.54 of OK space.



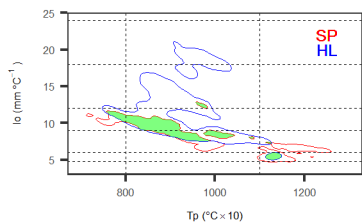
26. Overlap region is 0.53 of SP space, and 0.35 of DF space.



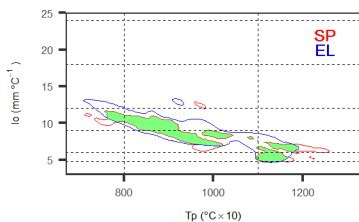
27. Overlap region is 0.22 of SP space, and 0.51 of BE space.



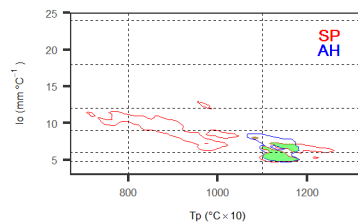
28. Overlap region is 0.58 of SP space, and 0.24 of HL space.



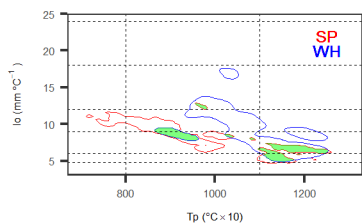
29. Overlap region is 0.8 of SP space, and 0.45 of EL space.



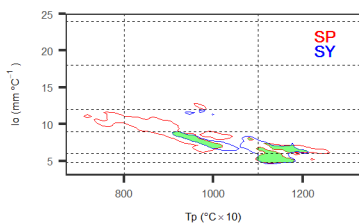
30. Overlap region is 0.19 of SP space, and 0.49 of AH space.



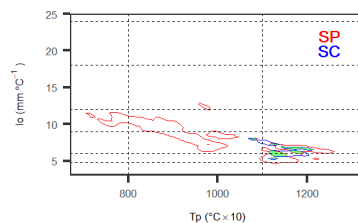
31. Overlap region is 0.39 of SP space, and 0.23 of WH space.



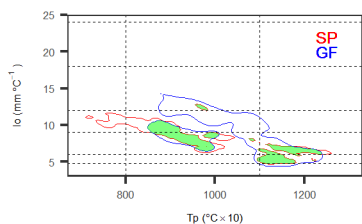
32. Overlap region is 0.33 of SP space, and 0.55 of SY space.



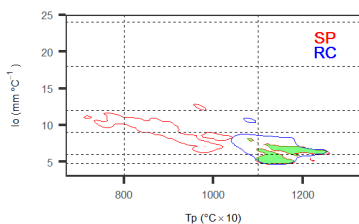
33. Overlap region is 0.09 of SP space, and 0.57 of SC space.



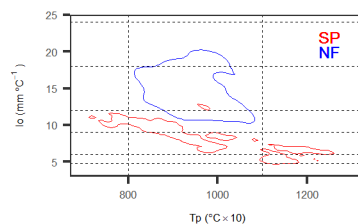
34. Overlap region is 0.66 of SP space, and 0.31 of GF space.



35. Overlap region is 0.29 of SP space, and 0.37 of RC space.

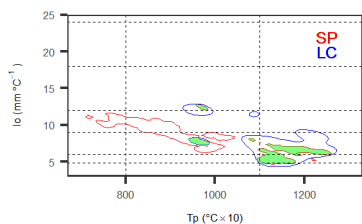


36. Overlap region is 0.02 of SP space, and 0.01 of NF space.

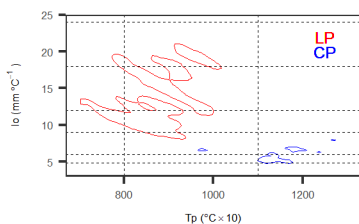


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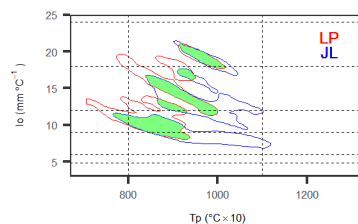
37 . Overlap region is 0.35 of SP space, and 0.29 of LC space.



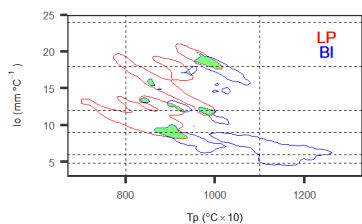
38 . Overlap region is 0 of LP space, and 0 of CP space.



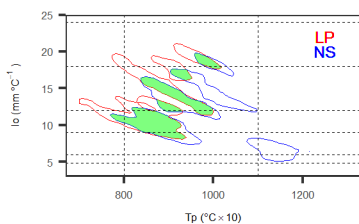
39 . Overlap region is 0.55 of LP space, and 0.48 of JL space.



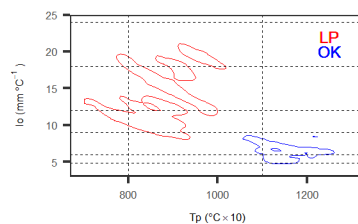
40 . Overlap region is 0.16 of LP space, and 0.2 of BI space.



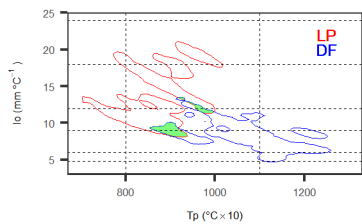
41 . Overlap region is 0.56 of LP space, and 0.5 of NS space.



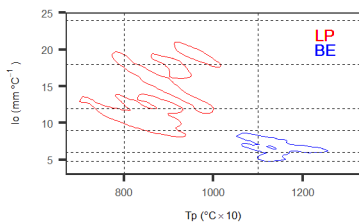
42 . Overlap region is 0 of LP space, and 0 of OK space.



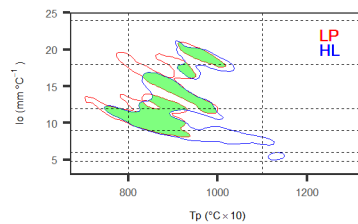
43 . Overlap region is 0.09 of LP space, and 0.11 of DF space.



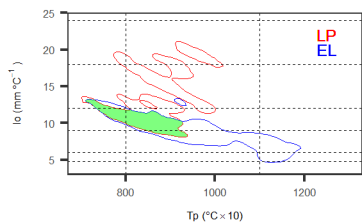
44 . Overlap region is 0 of LP space, and 0 of BE space.



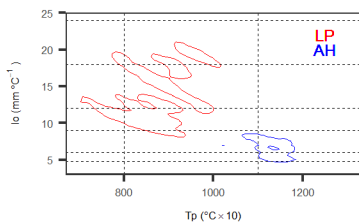
45 . Overlap region is 0.7 of LP space, and 0.57 of HL space.



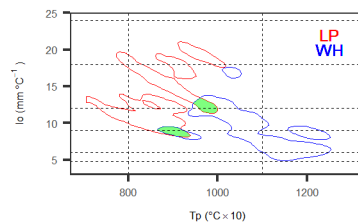
46 . Overlap region is 0.31 of LP space, and 0.35 of EL space.



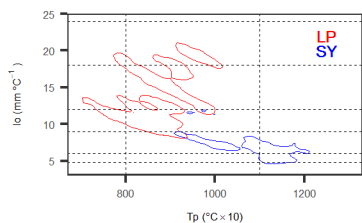
47 . Overlap region is 0 of LP space, and 0 of AH space.



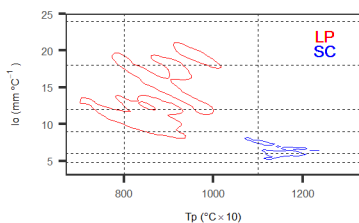
48 . Overlap region is 0.1 of LP space, and 0.12 of WH space.



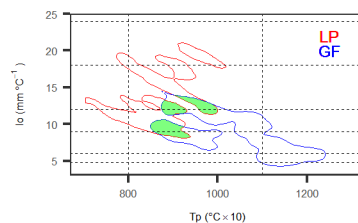
49 . Overlap region is 0.01 of LP space, and 0.05 of SY space.



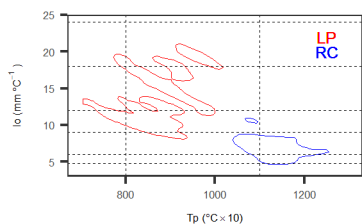
50 . Overlap region is 0 of LP space, and 0 of SC space.



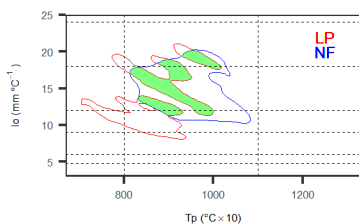
51 . Overlap region is 0.24 of LP space, and 0.21 of GF space.



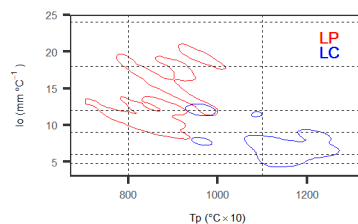
52 . Overlap region is 0 of LP space, and 0 of RC space.



53 . Overlap region is 0.49 of LP space, and 0.39 of NF space.

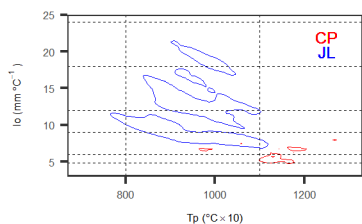


54 . Overlap region is 0.04 of LP space, and 0.06 of LC space.

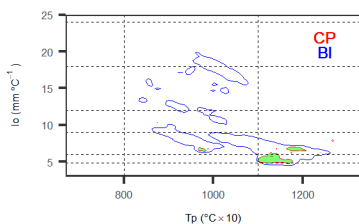


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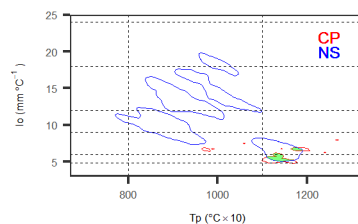
55 . Overlap region is 0.02 of CP space, and 0 of JL space.



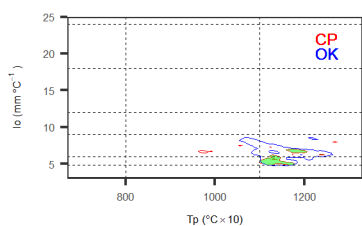
56 . Overlap region is 0.98 of CP space, and 0.08 of BI space.



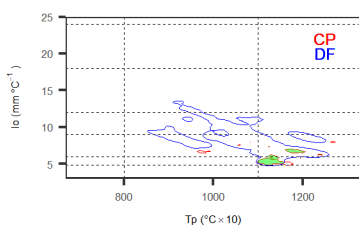
57 . Overlap region is 0.49 of CP space, and 0.03 of NS space.



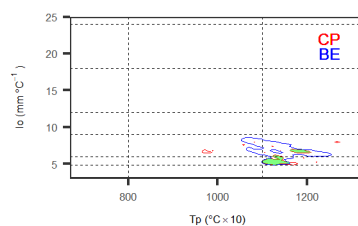
58 . Overlap region is 0.86 of CP space, and 0.2 of OK space.



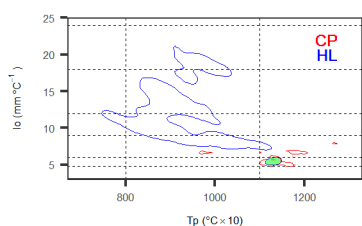
59 . Overlap region is 0.77 of CP space, and 0.06 of DF space.



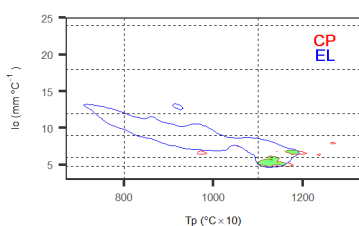
60 . Overlap region is 0.77 of CP space, and 0.2 of BE space.



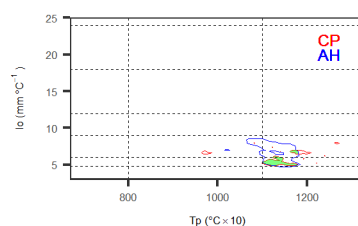
61 . Overlap region is 0.29 of CP space, and 0.02 of HL space.



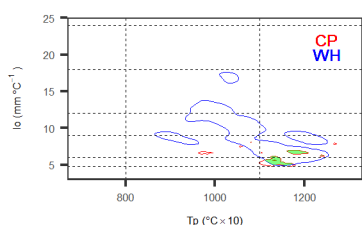
62 . Overlap region is 0.71 of CP space, and 0.05 of EL space.



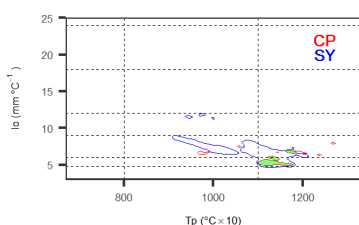
63 . Overlap region is 0.69 of CP space, and 0.2 of AH space.



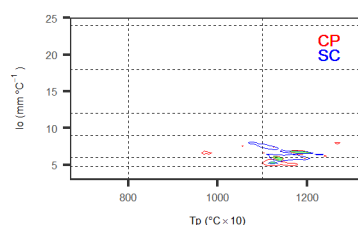
64 . Overlap region is 0.69 of CP space, and 0.05 of WH space.



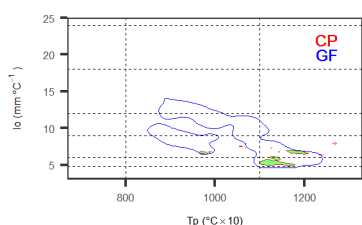
65 . Overlap region is 0.72 of CP space, and 0.13 of SY space.



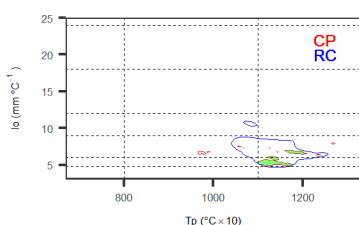
66 . Overlap region is 0.38 of CP space, and 0.26 of SC space.



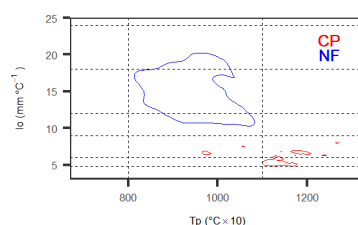
67 . Overlap region is 0.92 of CP space, and 0.05 of GF space.



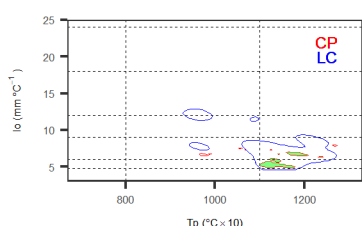
68 . Overlap region is 0.88 of CP space, and 0.12 of RC space.



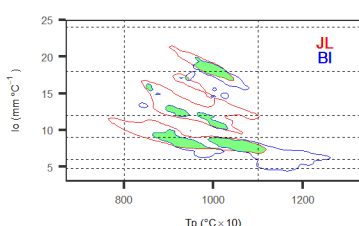
69 . Overlap region is 0 of CP space, and 0 of NF space.



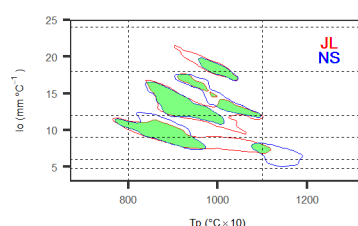
70 . Overlap region is 0.83 of CP space, and 0.08 of LC space.



71 . Overlap region is 0.35 of JL space, and 0.49 of BI space.

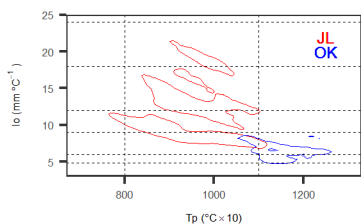


72 . Overlap region is 0.7 of JL space, and 0.72 of NS space.

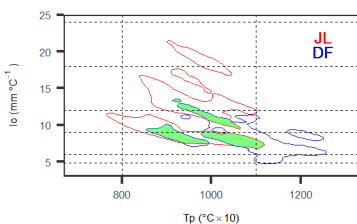


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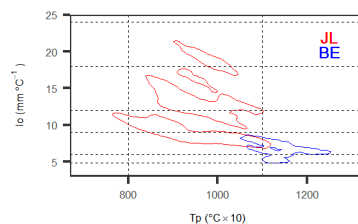
73 . Overlap region is 0.04 of JL space, and 0.16 of OK space.



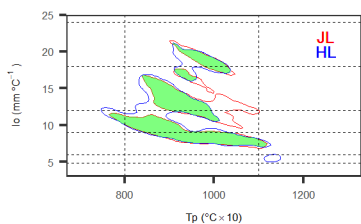
74 . Overlap region is 0.28 of JL space, and 0.42 of DF space.



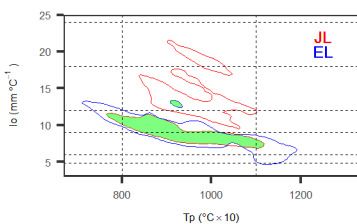
75 . Overlap region is 0.04 of JL space, and 0.2 of BE space.



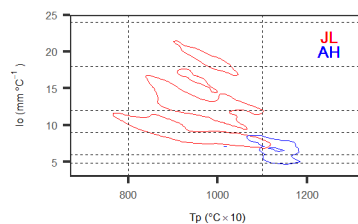
76 . Overlap region is 0.78 of JL space, and 0.73 of HL space.



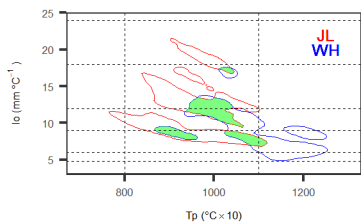
77 . Overlap region is 0.4 of JL space, and 0.51 of EL space.



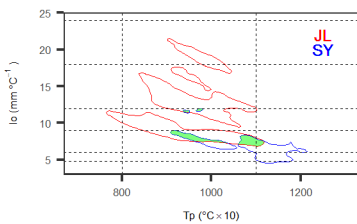
78 . Overlap region is 0.02 of JL space, and 0.14 of AH space.



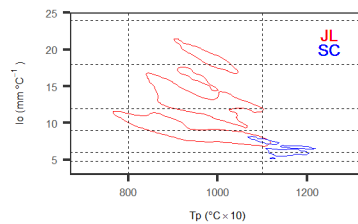
79 . Overlap region is 0.3 of JL space, and 0.39 of WH space.



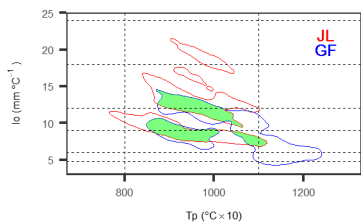
80 . Overlap region is 0.08 of JL space, and 0.31 of SY space.



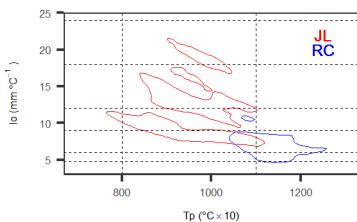
81 . Overlap region is 0.02 of JL space, and 0.21 of SC space.



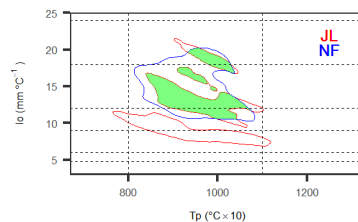
82 . Overlap region is 0.45 of JL space, and 0.46 of GF space.



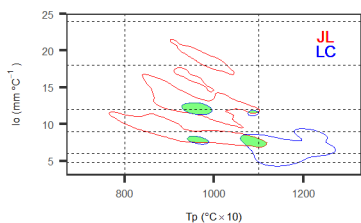
83 . Overlap region is 0.06 of JL space, and 0.18 of RC space.



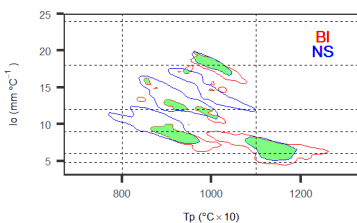
84 . Overlap region is 0.53 of JL space, and 0.48 of NF space.



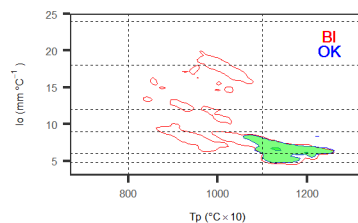
85 . Overlap region is 0.13 of JL space, and 0.24 of LC space.



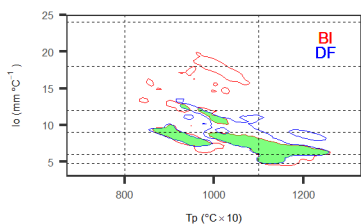
86 . Overlap region is 0.52 of BI space, and 0.38 of NS space.



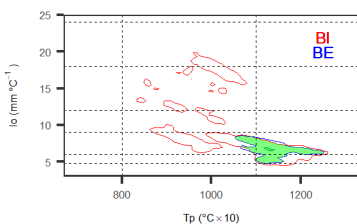
87 . Overlap region is 0.31 of BI space, and 0.97 of OK space.



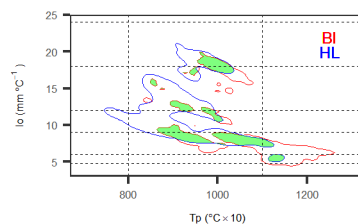
88 . Overlap region is 0.58 of BI space, and 0.61 of DF space.



89 . Overlap region is 0.26 of BI space, and 0.92 of BE space.

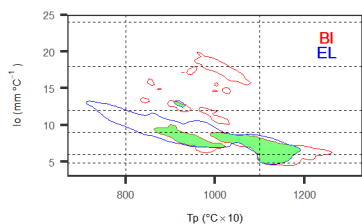


90 . Overlap region is 0.51 of BI space, and 0.34 of HL space.

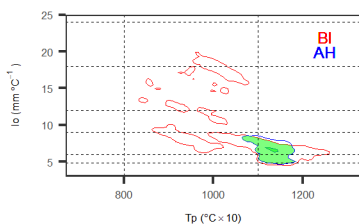


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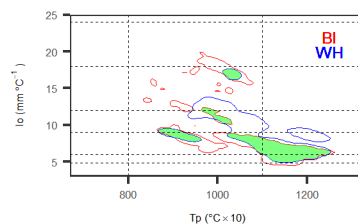
91 . Overlap region is 0.52 of BI space, and 0.47 of EL space.



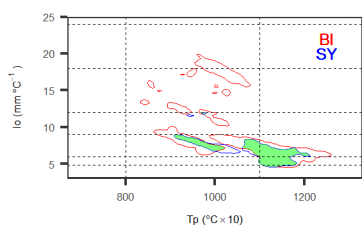
92 . Overlap region is 0.22 of BI space, and 0.89 of AH space.



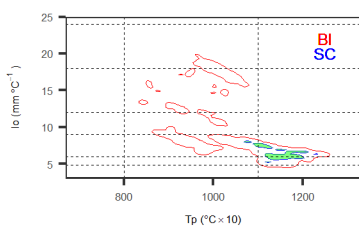
93 . Overlap region is 0.54 of BI space, and 0.5 of WH space.



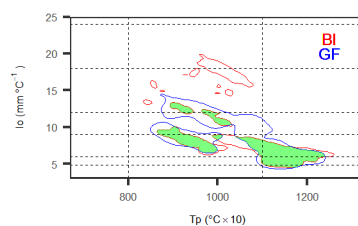
94 . Overlap region is 0.33 of BI space, and 0.86 of SY space.



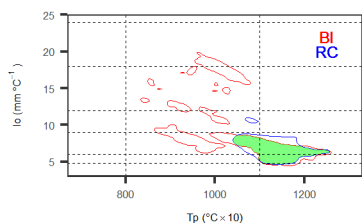
95 . Overlap region is 0.1 of BI space, and 1 of SC space.



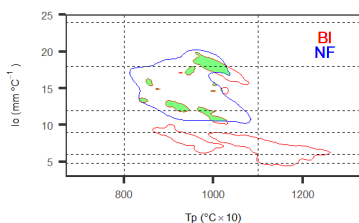
96 . Overlap region is 0.64 of BI space, and 0.47 of GF space.



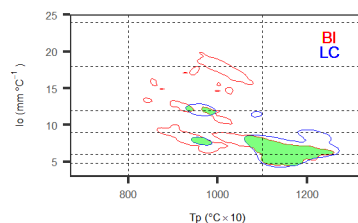
97 . Overlap region is 0.38 of BI space, and 0.77 of RC space.



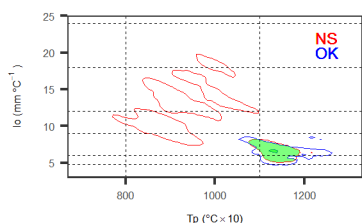
98 . Overlap region is 0.24 of BI space, and 0.15 of NF space.



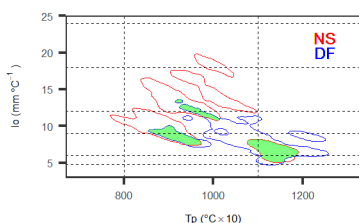
99 . Overlap region is 0.46 of BI space, and 0.6 of LC space.



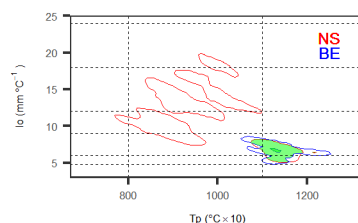
100 . Overlap region is 0.13 of NS space and 0.59 of OK space.



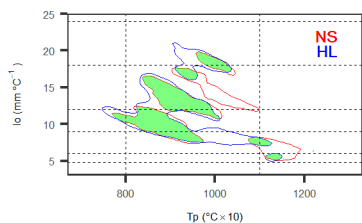
101 . Overlap region is 0.28 of NS space and 0.41 of DF space.



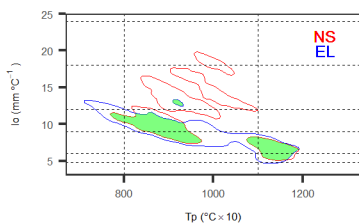
102 . Overlap region is 0.12 of NS space and 0.61 of BE space.



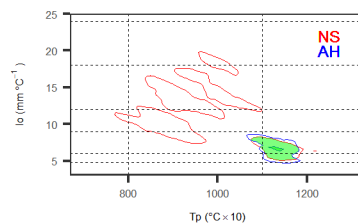
103 . Overlap region is 0.69 of NS space and 0.63 of HL space.



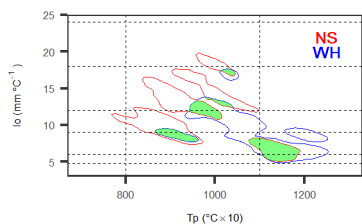
104 . Overlap region is 0.41 of NS space and 0.51 of EL space.



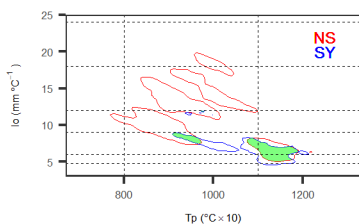
105 . Overlap region is 0.13 of NS space and 0.72 of AH space.



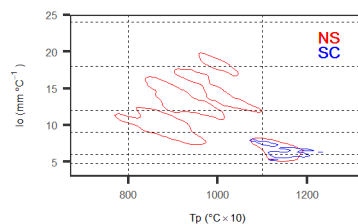
106 . Overlap region is 0.32 of NS space and 0.4 of WH space.



107 . Overlap region is 0.15 of NS space and 0.54 of SY space.

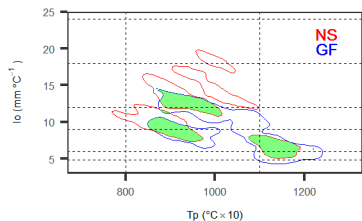


108 . Overlap region is 0.06 of NS space and 0.81 of SC space.

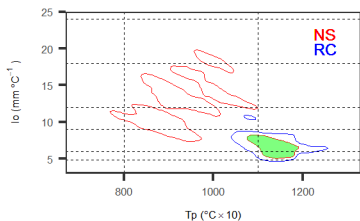


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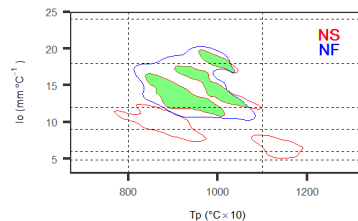
109 . Overlap region is 0.47 of NS space
and 0.47 of GF space.



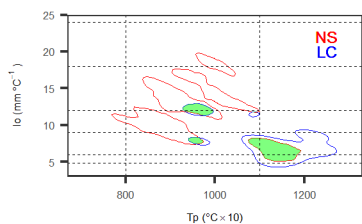
110 . Overlap region is 0.15 of NS space, and 0.42 of RC space.



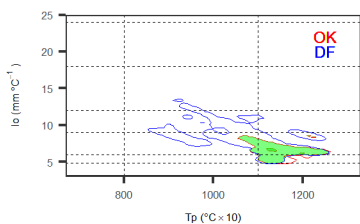
111 . Overlap region is 0.52 of NS space
and 0.46 of NF space.



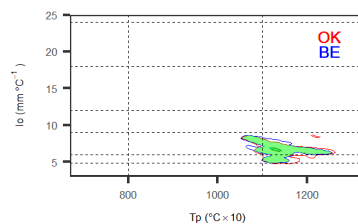
112 . Overlap region is 0.22 of NS space and 0.39 of LC space.



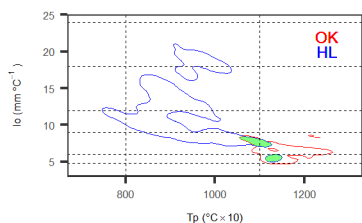
113 . Overlap region is 0.91 of OK space and 0.3 of DF space.



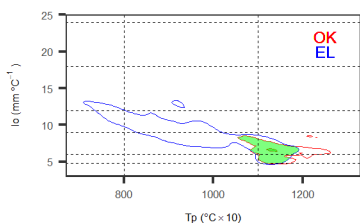
114 . Overlap region is 0.75 of OK space and 0.85 of BE space.



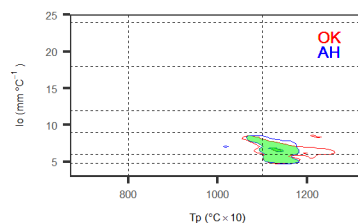
115 . Overlap region is 0.27 of OK space
and 0.06 of HL space.



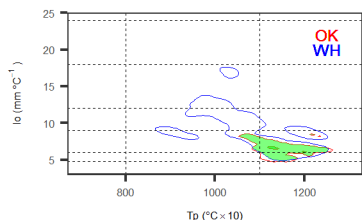
116 . Overlap region is 0.74 of OK space and 0.2 of EL space.



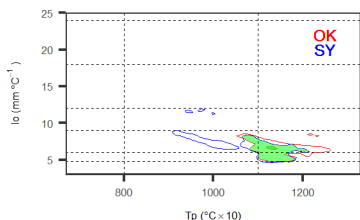
117 . Overlap region is 0.65 of OK space
and 0.82 of AH space.



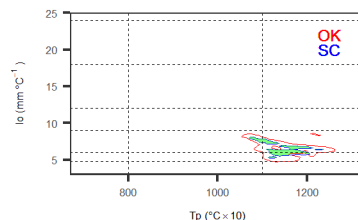
118 . Overlap region is 0.9 of OK space,
and 0.26 of WH space.



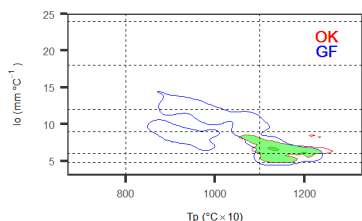
119 . Overlap region is 0.66 of OK space and 0.54 of SY space.



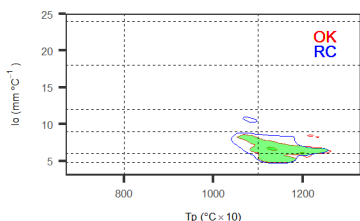
120 . Overlap region is 0.31 of OK space and 0.93 of SC space.



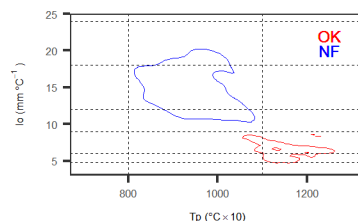
121 . Overlap region is 0.9 of OK space,
and 0.21 of GF space.



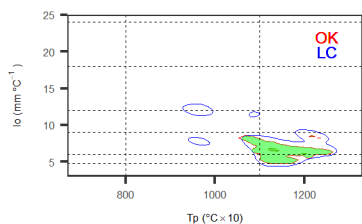
122 . Overlap region is 0.96 of OK space and 0.6 of RC space.



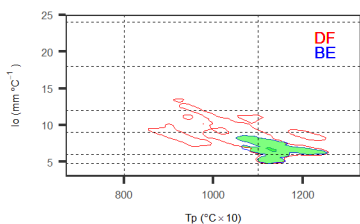
123 . Overlap region is 0 of OK space,
and 0 of NF space.



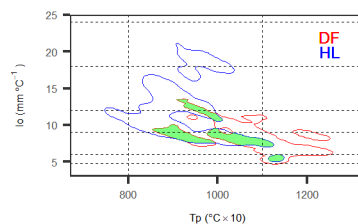
124 . Overlap region is 0.99 of OK space and 0.41 of LC space.



125 . Overlap region is 0.28 of DF space,
and 0.97 of BE space.

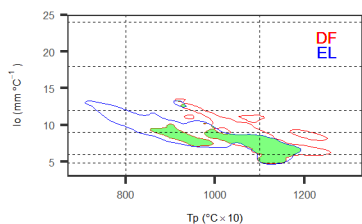


126 . Overlap region is 0.41 of DF space,
and 0.26 of HL space.

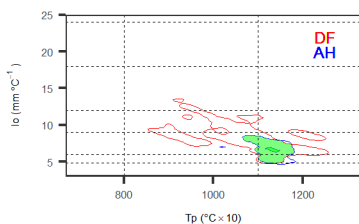


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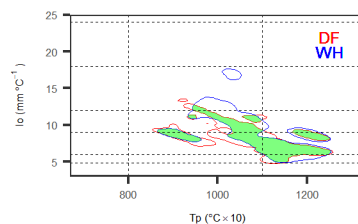
127 . Overlap region is 0.56 of DF space, and 0.48 of EL space.



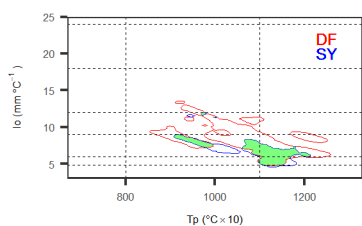
128 . Overlap region is 0.23 of DF space, and 0.89 of AH space.



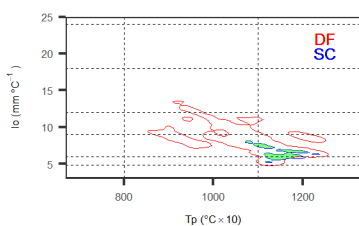
129 . Overlap region is 0.74 of DF space, and 0.64 of WH space.



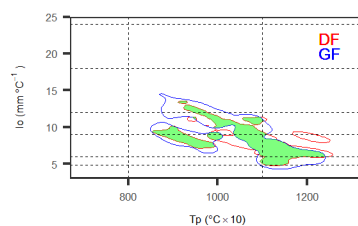
130 . Overlap region is 0.3 of DF space, and 0.75 of SY space.



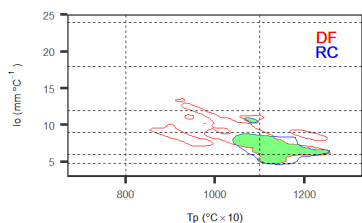
131 . Overlap region is 0.1 of DF space, and 0.95 of SC space.



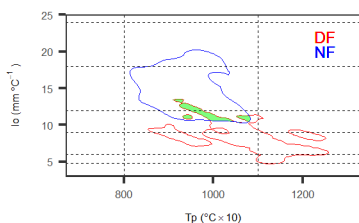
132 . Overlap region is 0.78 of DF space, and 0.54 of GF space.



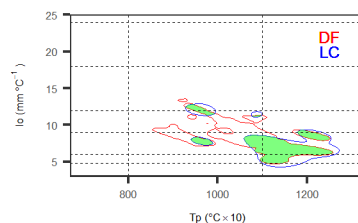
133 . Overlap region is 0.42 of DF space, and 0.81 of RC space.



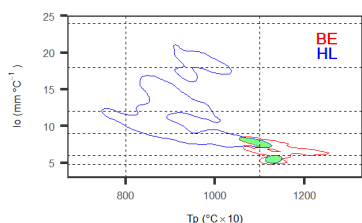
134 . Overlap region is 0.12 of DF space, and 0.07 of NF space.



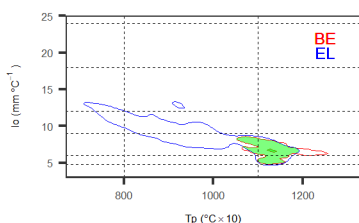
135 . Overlap region is 0.53 of DF space, and 0.66 of LC space.



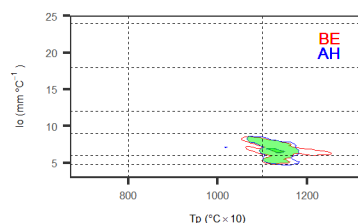
136 . Overlap region is 0.29 of BE space, and 0.05 of HL space.



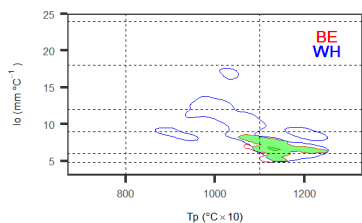
137 . Overlap region is 0.84 of BE space, and 0.21 of EL space.



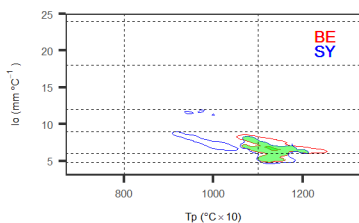
138 . Overlap region is 0.72 of BE space, and 0.81 of AH space.



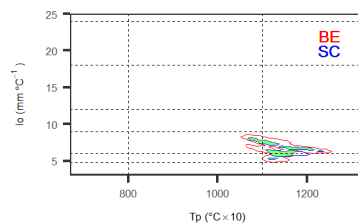
139 . Overlap region is 0.91 of BE space, and 0.23 of WH space.



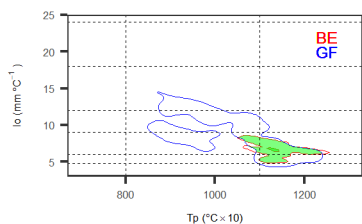
140 . Overlap region is 0.66 of BE space, and 0.48 of SY space.



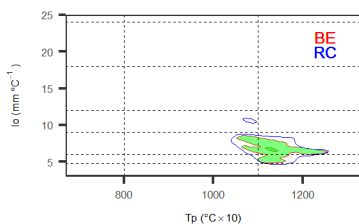
141 . Overlap region is 0.33 of BE space, and 0.87 of SC space.



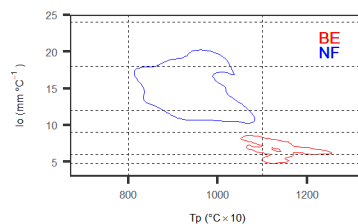
142 . Overlap region is 0.91 of BE space, and 0.19 of GF space.



143 . Overlap region is 1 of BE space, and 0.56 of RC space.

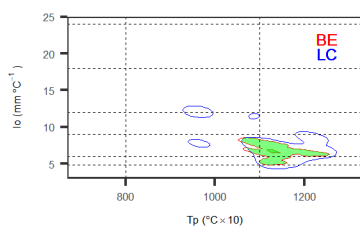


144 . Overlap region is 0 of BE space, and 0 of NF space.

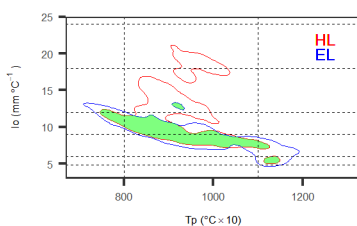


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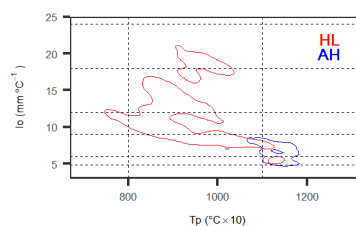
145 . Overlap region is 0.97 of BE space, and 0.35 of LC space.



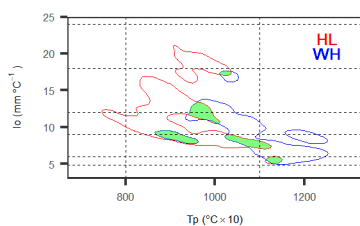
146 . Overlap region is 0.44 of HL space, and 0.6 of EL space.



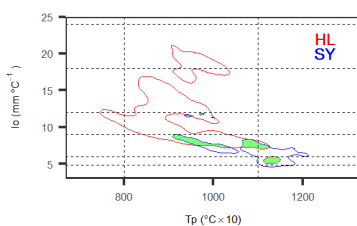
147 . Overlap region is 0.05 of HL space, and 0.28 of AH space.



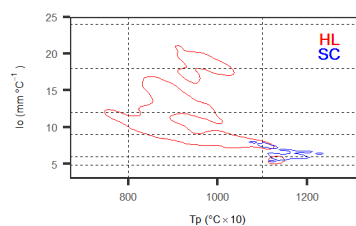
148 . Overlap region is 0.2 of HL space, and 0.28 of WH space.



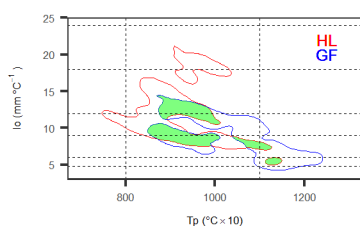
149 . Overlap region is 0.09 of HL space, and 0.36 of SY space.



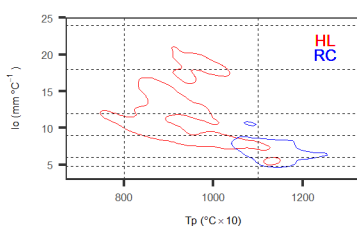
150 . Overlap region is 0.02 of HL space, and 0.34 of SC space.



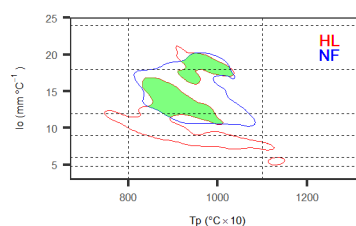
151 . Overlap region is 0.39 of HL space, and 0.44 of GF space.



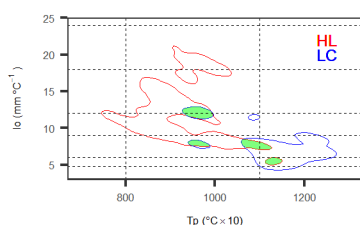
152 . Overlap region is 0.07 of HL space, and 0.23 of RC space.



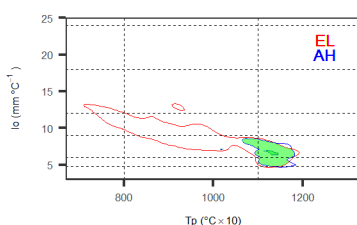
153 . Overlap region is 0.48 of HL space, and 0.47 of NF space.



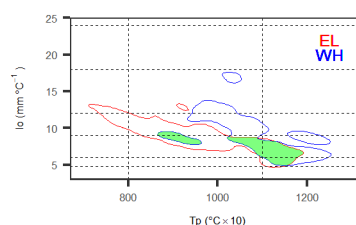
154 . Overlap region is 0.13 of HL space, and 0.26 of LC space.



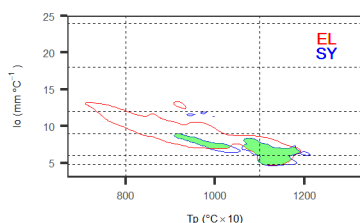
155 . Overlap region is 0.2 of EL space, and 0.9 of AH space.



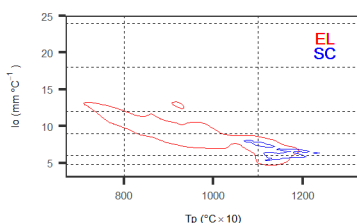
156 . Overlap region is 0.34 of EL space, and 0.35 of WH space.



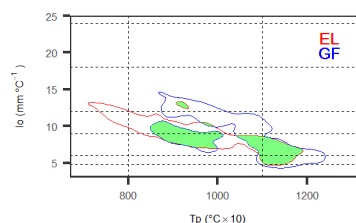
157 . Overlap region is 0.28 of EL space, and 0.82 of SY space.



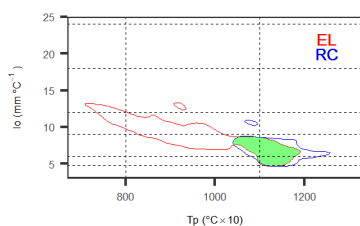
158 . Overlap region is 0.08 of EL space, and 0.81 of SC space.



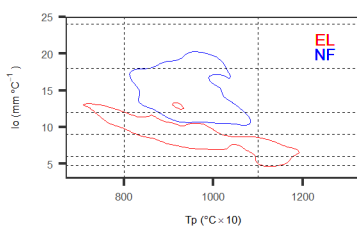
159 . Overlap region is 0.57 of EL space, and 0.47 of GF space.



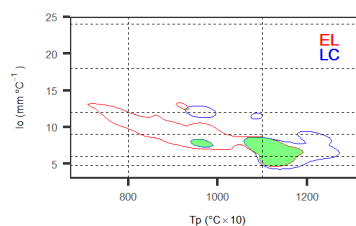
160 . Overlap region is 0.29 of EL space, and 0.67 of RC space.



161 . Overlap region is 0.01 of EL space, and 0.01 of NF space.

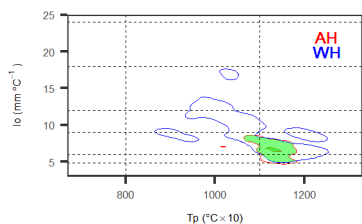


162 . Overlap region is 0.31 of EL space, and 0.45 of LC space.

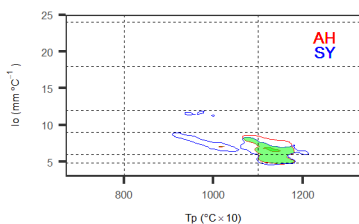


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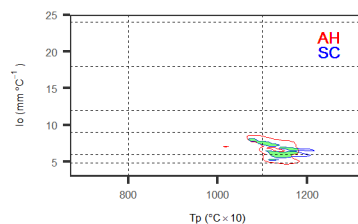
163. Overlap region is 0.89 of AH space and 0.2 of WH space.



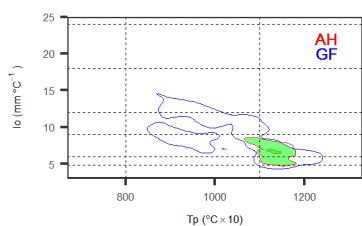
164. Overlap region is 0.71 of AH space and 0.46 of SY space.



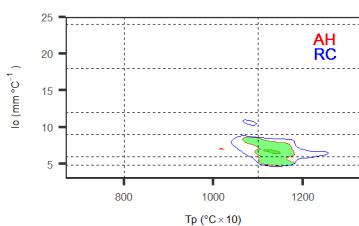
165. Overlap region is 0.35 of AH space and 0.82 of SC space.



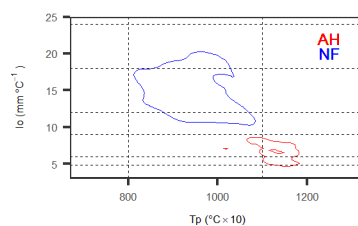
166. Overlap region is 0.95 of AH space and 0.17 of GF space.



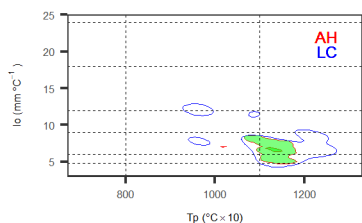
167. Overlap region is 0.99 of AH space and 0.49 of RC space.



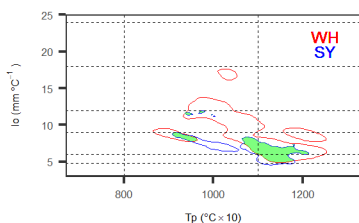
168. Overlap region is 0 of AH space, and 0 of NF space.



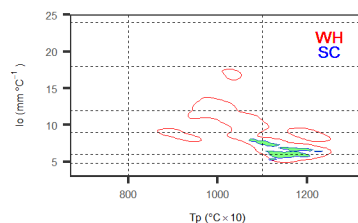
169. Overlap region is 0.99 of AH space and 0.32 of LC space.



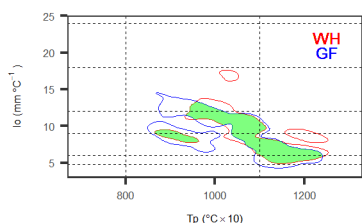
170. Overlap region is 0.23 of WH space and 0.66 of SY space.



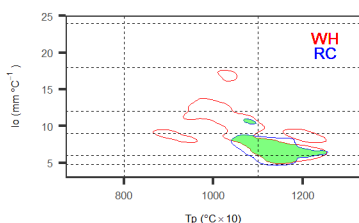
171. Overlap region is 0.1 of WH space, and 1 of SC space.



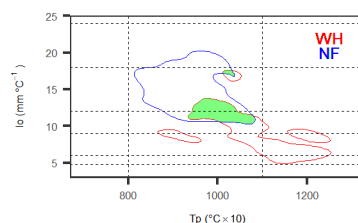
172. Overlap region is 0.7 of WH space, and 0.56 of GF space.



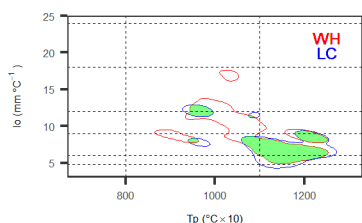
173. Overlap region is 0.34 of WH space and 0.75 of RC space.



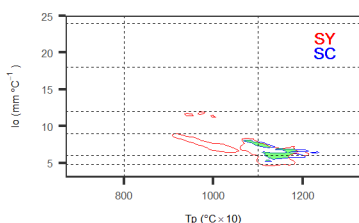
174. Overlap region is 0.29 of WH space and 0.2 of NF space.



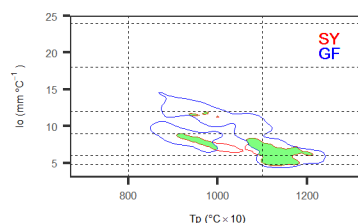
175. Overlap region is 0.5 of WH space, and 0.71 of LC space.



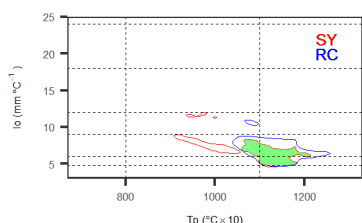
176. Overlap region is 0.2 of SY space, and 0.73 of SC space.



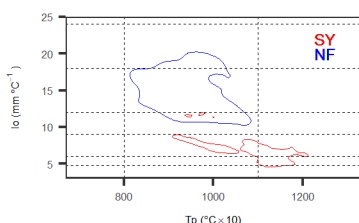
177. Overlap region is 0.82 of SY space, and 0.23 of GF space.



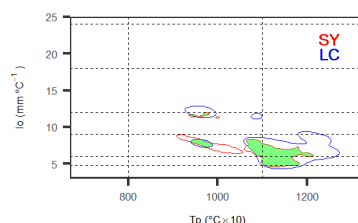
178. Overlap region is 0.68 of SY space, and 0.52 of RC space.



179. Overlap region is 0.04 of SY space, and 0.01 of NF space.

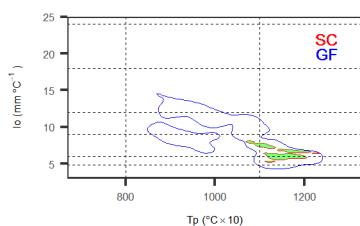


180. Overlap region is 0.77 of SY space, and 0.38 of LC space.

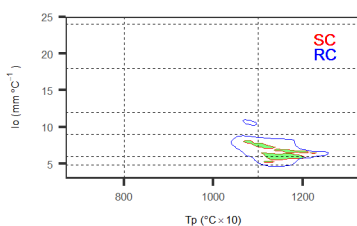


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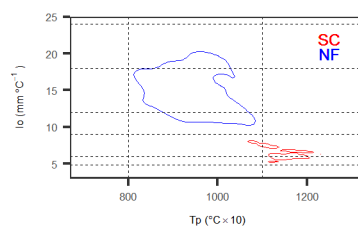
181 . Overlap region is 1 of SC space,
and 0.08 of GF space.



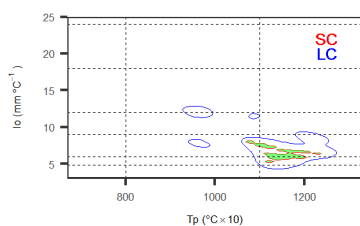
182 . Overlap region is 1 of SC space,
and 0.21 of RC space.



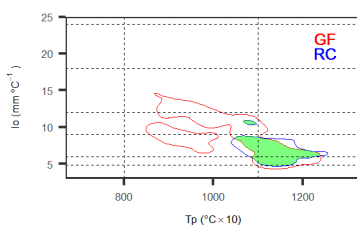
183 . Overlap region is 0 of SC space,
and 0 of NF space.



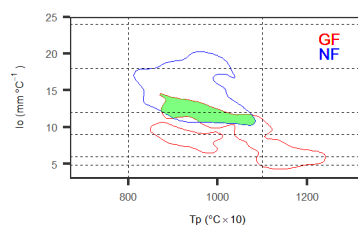
184 . Overlap region is 1 of SC space,
and 0.14 of LC space.



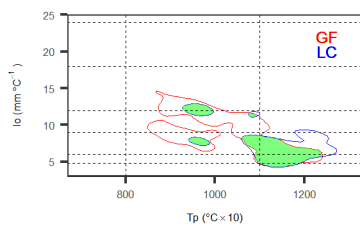
185 . Overlap region is 0.28 of GF space,
and 0.79 of RC space.



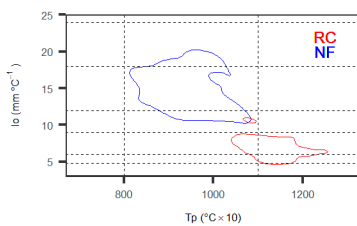
186 . Overlap region is 0.29 of GF space,
and 0.25 of NF space.



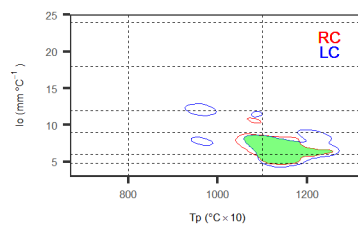
187 . Overlap region is 0.4 of GF space,
and 0.72 of LC space.



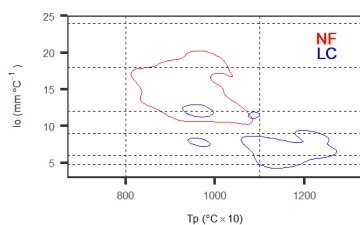
188 . Overlap region is 0.01 of RC space
and 0 of NF space.



189 . Overlap region is 0.84 of RC space
and 0.54 of LC space.



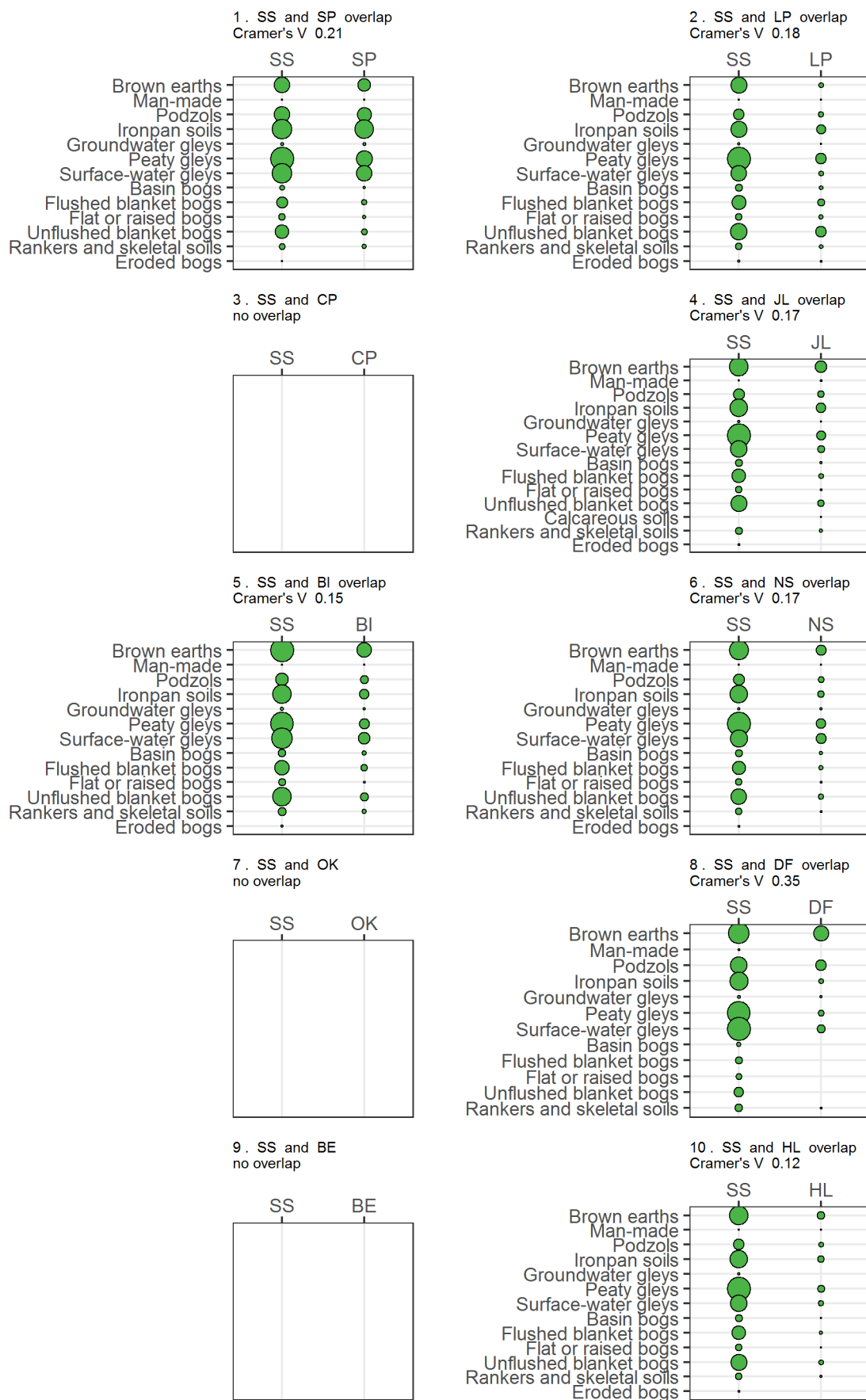
190 . Overlap region is 0.05 of NF space,
and 0.11 of LC space.



Appendix 4. . The relationship between pairs of species categorised by soil groups within the overlap area in climate space. The strength of the association is calculated as Cramer's V, which ranges for 0 to 1; the smaller the value the stronger the association between the paired species. The number of the graph for each pairwise combination is shown in the table.

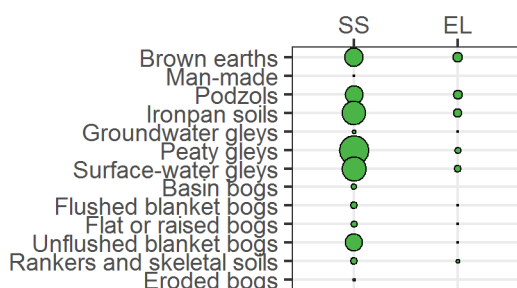
	SS	SP	LP	CP	JL	BI	NS	OK	DF	BE	HL	EL	AH	WH	SY	SC	GF	RC	NF	LC
SS																				
SP	1																			
LP	2	20																		
CP	3	21	38																	
JL	4	22	39	55																
BI	5	23	40	56	71															
NS	6	24	41	57	72	86														
OK	7	25	42	58	73	87	100													
DF	8	26	43	59	74	88	101	113												
BE	9	27	44	60	75	89	102	114	125											
HL	10	28	45	61	76	90	103	115	126	136										
EL	11	29	46	62	77	91	104	116	127	137	146									
AH	12	30	47	63	78	92	105	117	128	138	147	155								
WH	13	31	48	64	79	93	106	118	129	139	148	156	163							
SY	14	32	49	65	80	94	107	119	130	140	149	157	164	170						
SC	15	33	50	66	81	95	108	120	131	141	150	158	165	171	176					
GF	16	34	51	67	82	96	109	121	132	142	151	159	166	172	177	181				
RC	17	35	52	68	83	97	110	122	133	143	152	160	167	173	178	182	185			
NF	18	36	53	69	84	98	111	123	134	144	153	161	168	174	179	183	186	188		
LC	19	37	54	70	85	99	112	124	135	145	154	162	169	175	180	184	187	189	190	

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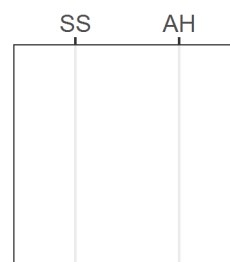


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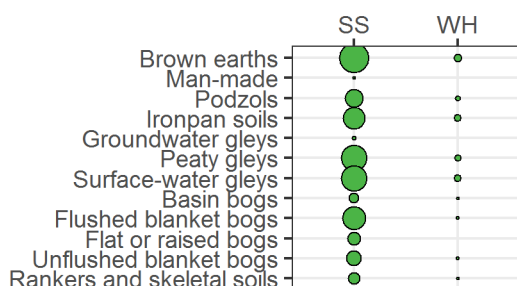
11. SS and EL overlap
Cramer's V 0.23



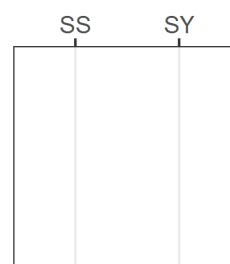
12. SS and AH
no overlap



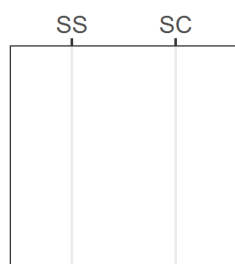
13. SS and WH overlap
Cramer's V 0.1



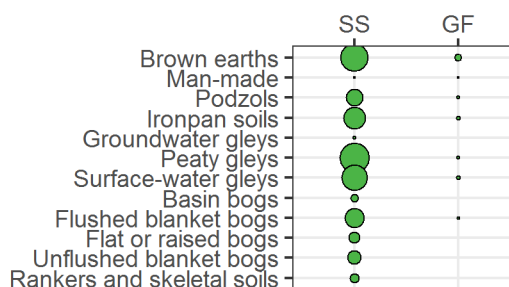
14. SS and SY
no overlap



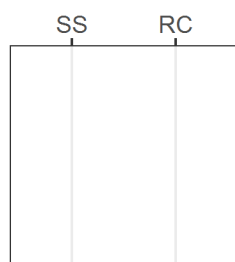
15. SS and SC
no overlap



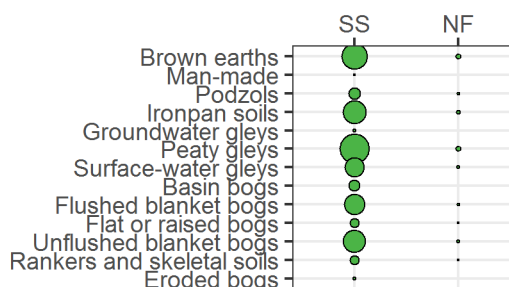
16. SS and GF overlap
Cramer's V 0.15



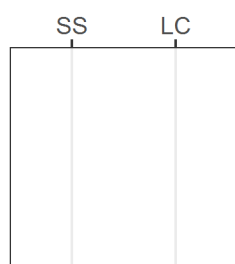
17. SS and RC
no overlap



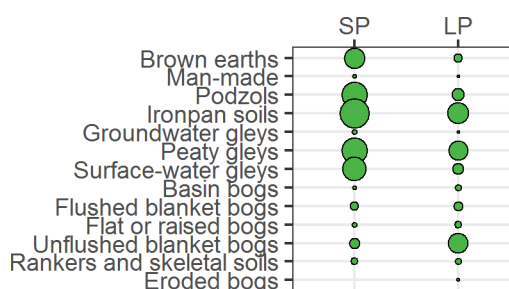
18. SS and NF overlap
Cramer's V 0.06



19. SS and LC
no overlap



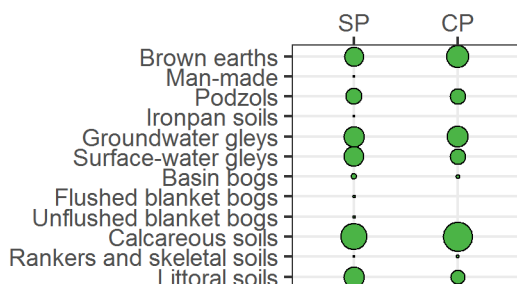
20. SP and LP overlap
Cramer's V 0.41



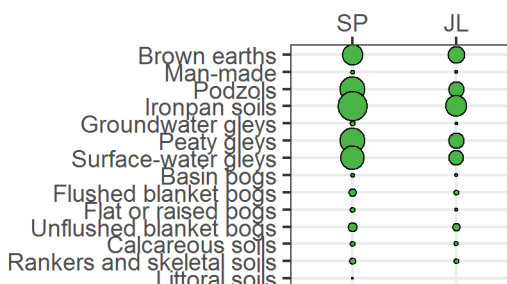


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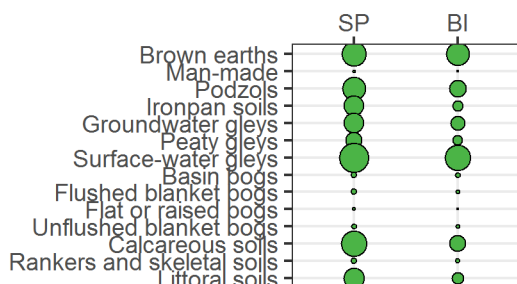
21. SP and CP overlap
Cramer's V 0.19



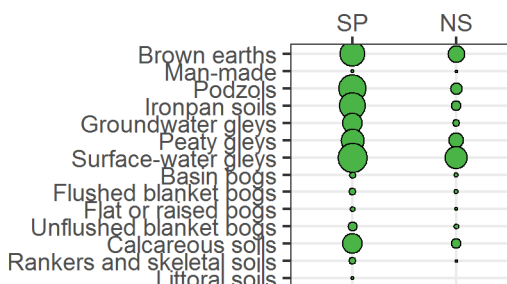
22. SP and JL overlap
Cramer's V 0.12



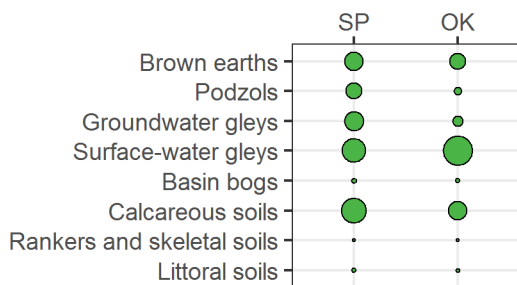
23. SP and BI overlap
Cramer's V 0.2



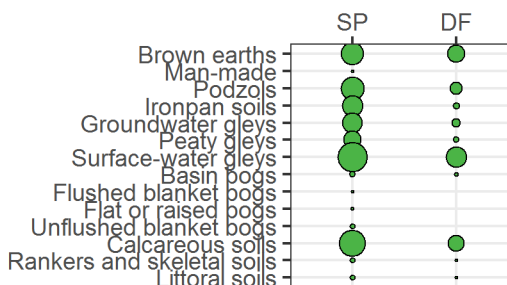
24. SP and NS overlap
Cramer's V 0.24



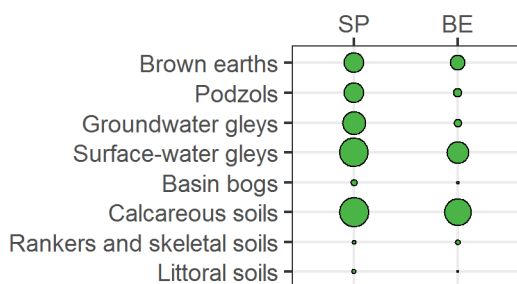
25. SP and OK overlap
Cramer's V 0.33



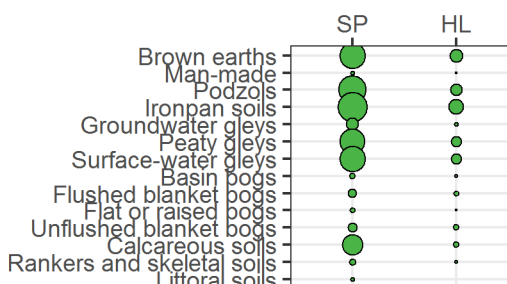
26. SP and DF overlap
Cramer's V 0.23



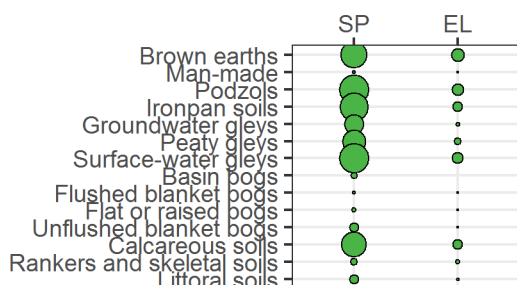
27. SP and BE overlap
Cramer's V 0.29



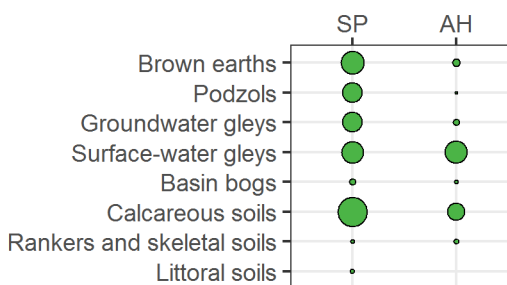
28. SP and HL overlap
Cramer's V 0.13



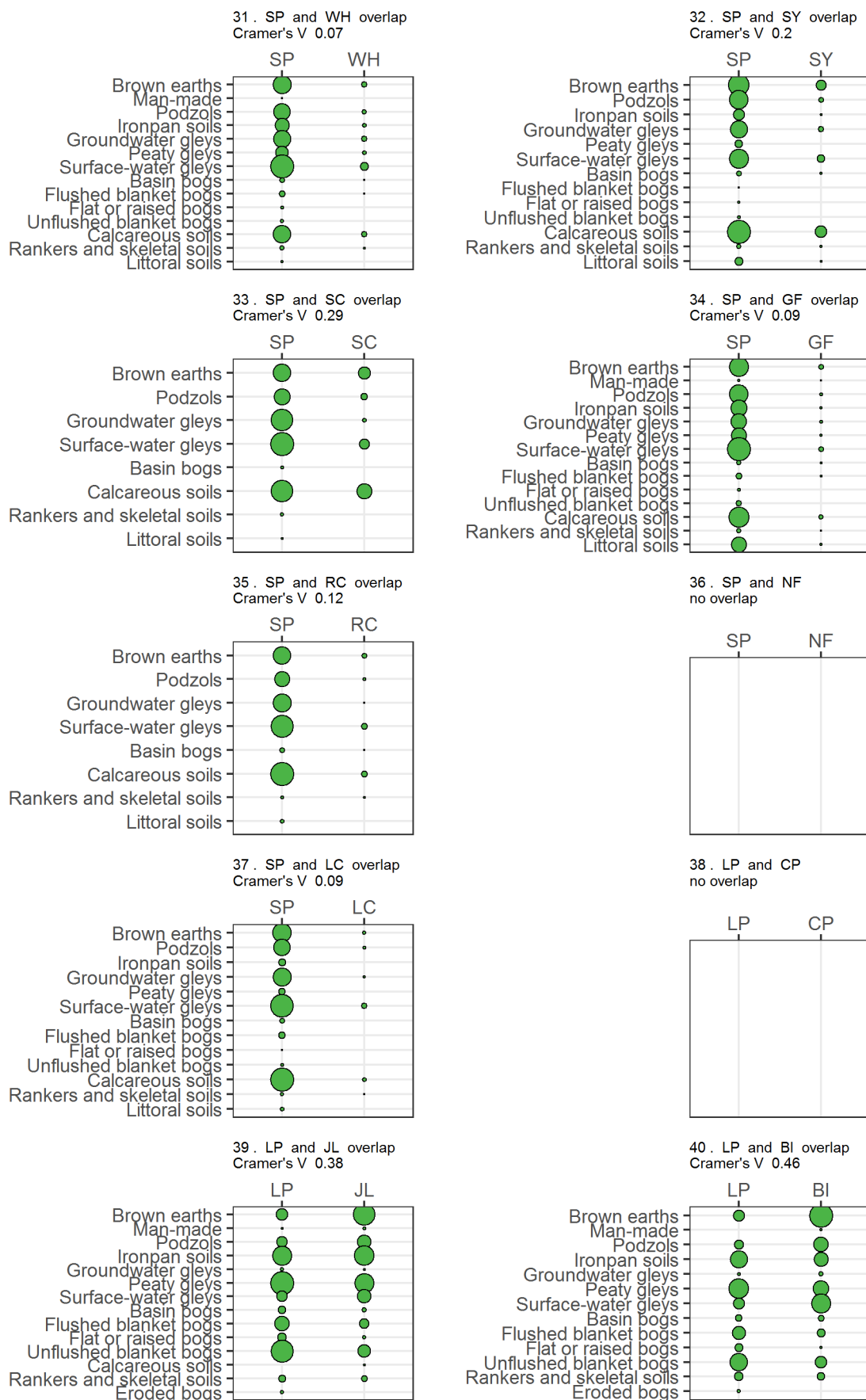
29. SP and EL overlap
Cramer's V 0.14



30. SP and AH overlap
Cramer's V 0.44

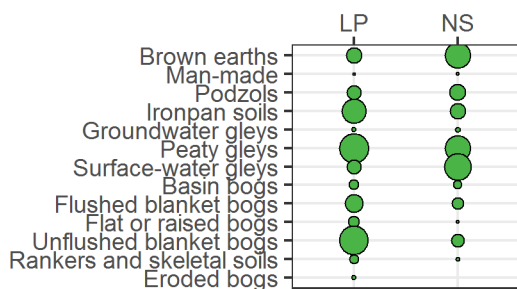


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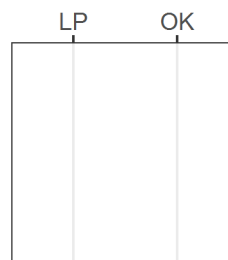


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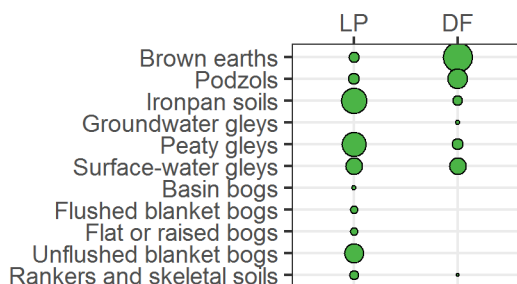
41 . LP and NS overlap
Cramer's V 0.48



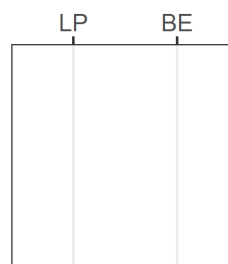
42 . LP and OK
no overlap



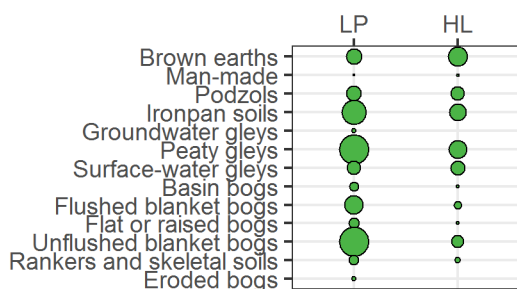
43 . LP and DF overlap
Cramer's V 0.73



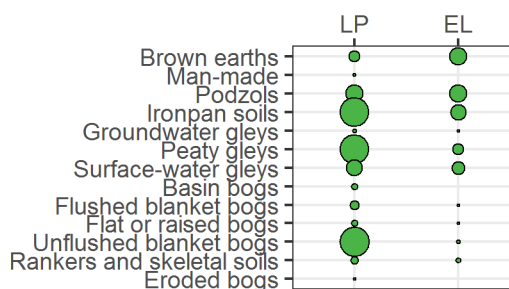
44 . LP and BE
no overlap



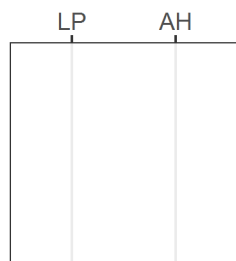
45 . LP and HL overlap
Cramer's V 0.36



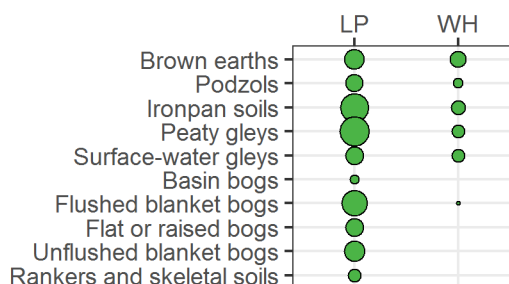
46 . LP and EL overlap
Cramer's V 0.52



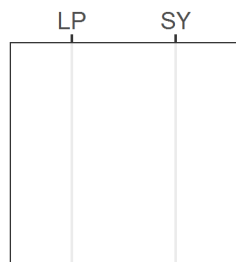
47 . LP and AH
no overlap



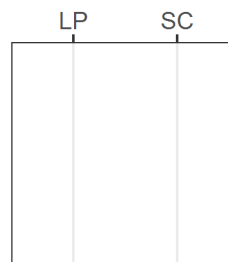
48 . LP and WH overlap
Cramer's V 0.36



49 . LP and SY
no overlap

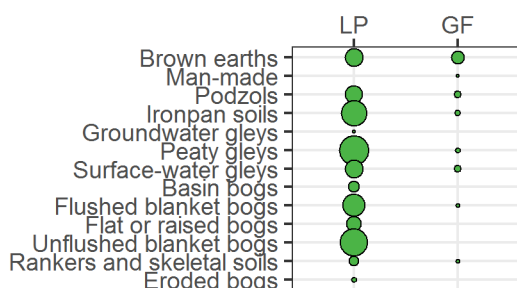


50 . LP and SC
no overlap

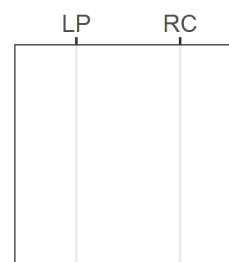


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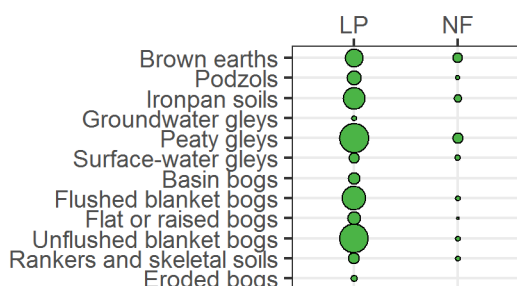
51 . LP and GF overlap
Cramer's V 0.41



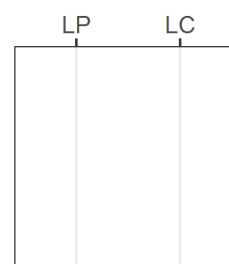
52 . LP and RC
no overlap



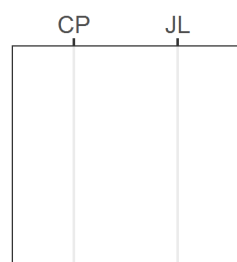
53 . LP and NF overlap
Cramer's V 0.23



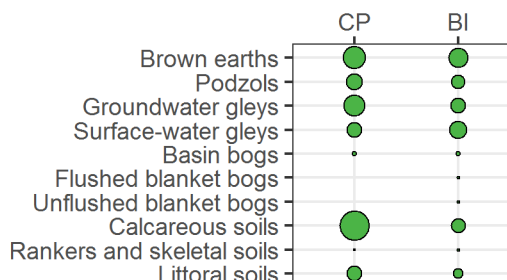
54 . LP and LC
no overlap



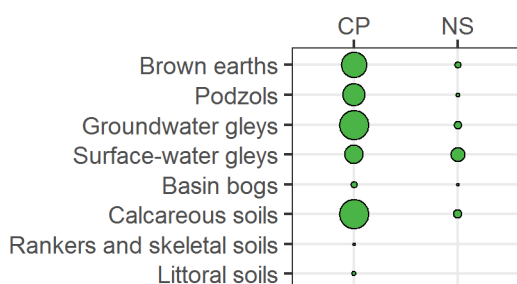
55 . CP and JL
no overlap



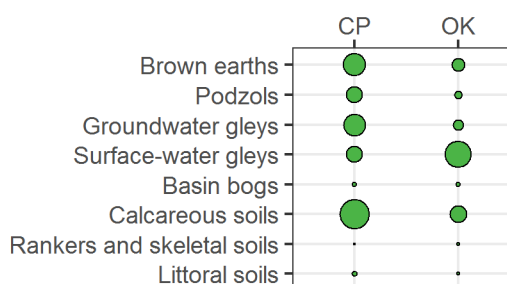
56 . CP and BI overlap
Cramer's V 0.29



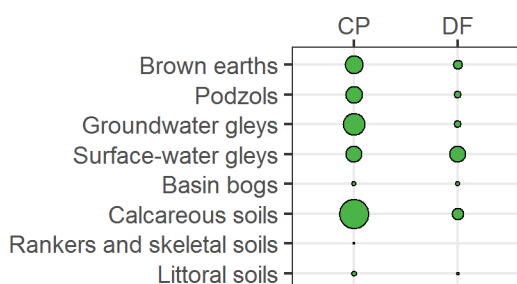
57 . CP and NS overlap
Cramer's V 0.37



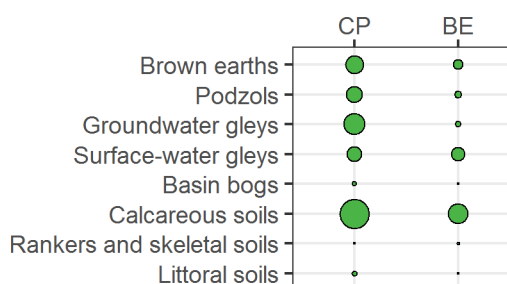
58 . CP and OK overlap
Cramer's V 0.49



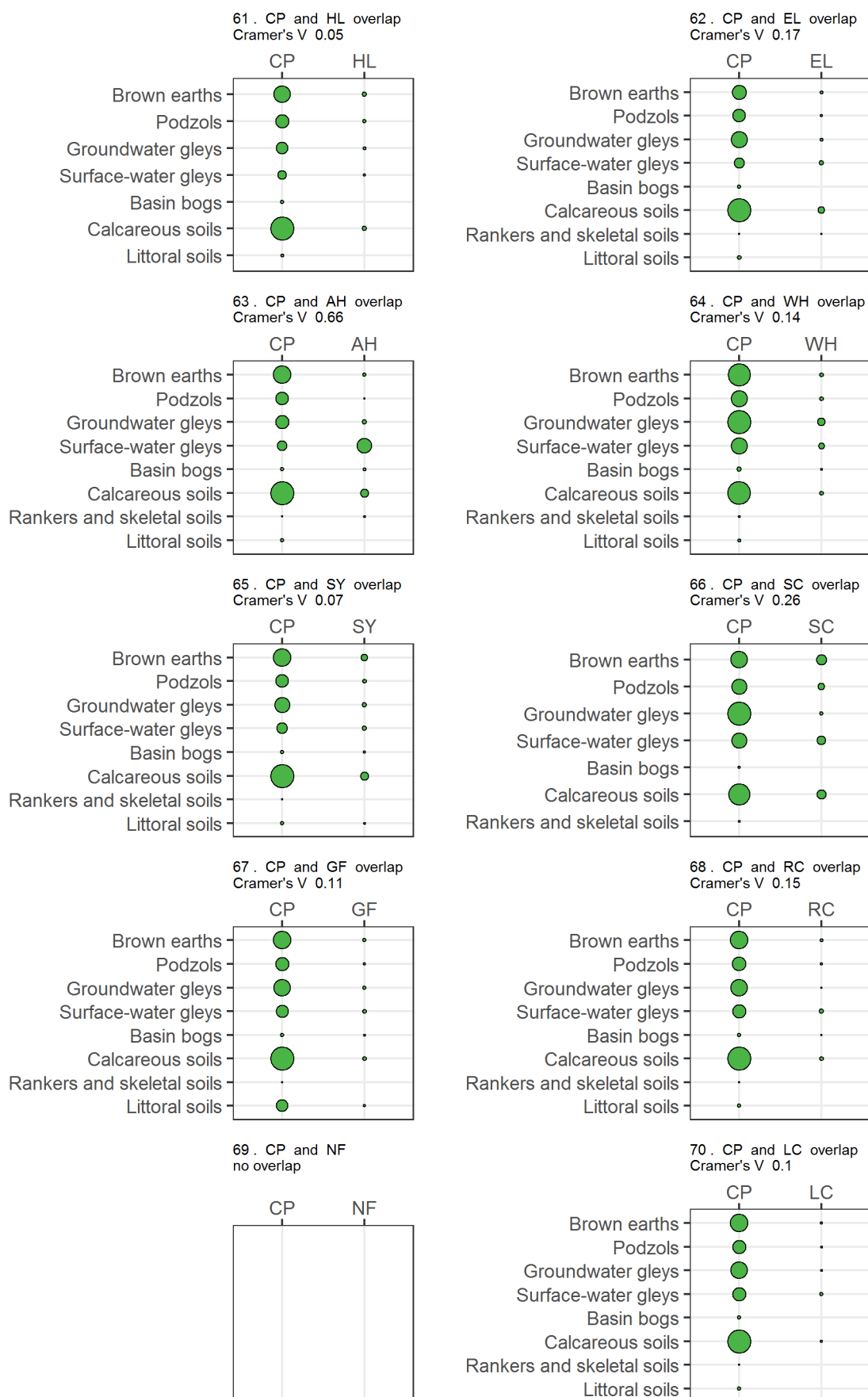
59 . CP and DF overlap
Cramer's V 0.37



60 . CP and BE overlap
Cramer's V 0.29

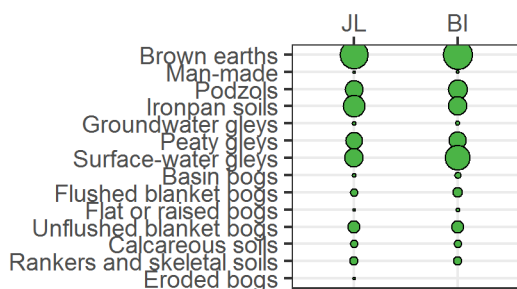


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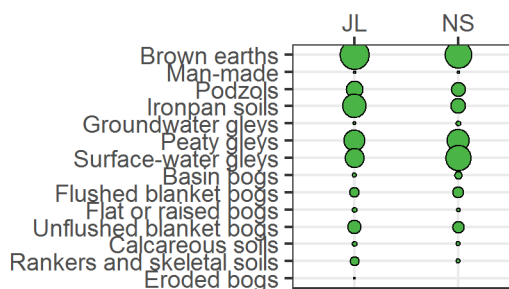


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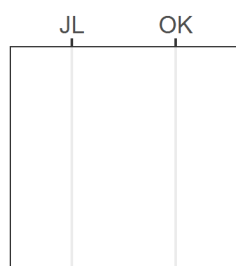
71 . JL and BI overlap
Cramer's V 0.15



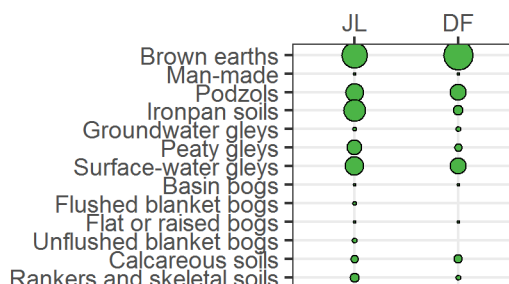
72 . JL and NS overlap
Cramer's V 0.25



73 . JL and OK
no overlap



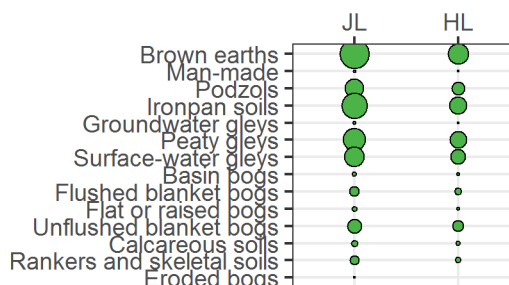
74 . JL and DF overlap
Cramer's V 0.33



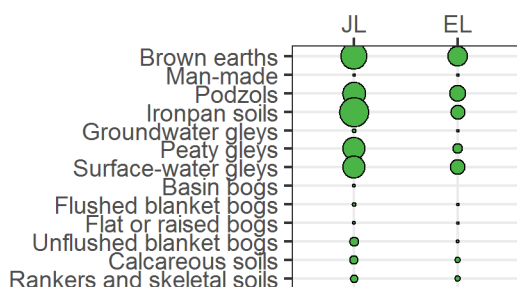
75 . JL and BE
no overlap



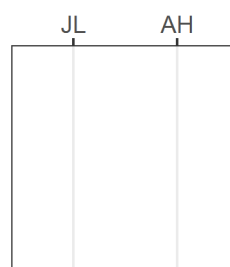
76 . JL and HL overlap
Cramer's V 0.05



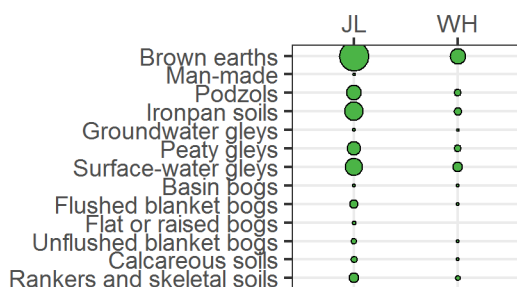
77 . JL and EL overlap
Cramer's V 0.2



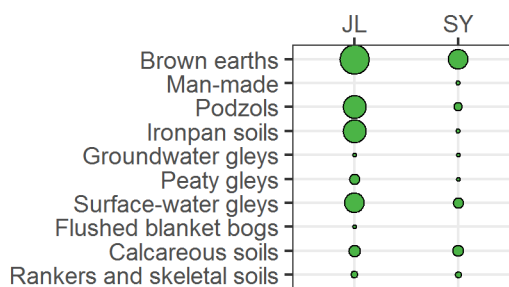
78 . JL and AH
no overlap



79 . JL and WH overlap
Cramer's V 0.11

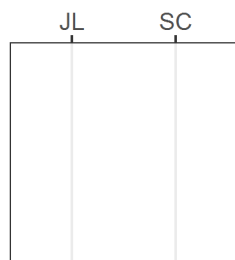


80 . JL and SY overlap
Cramer's V 0.34

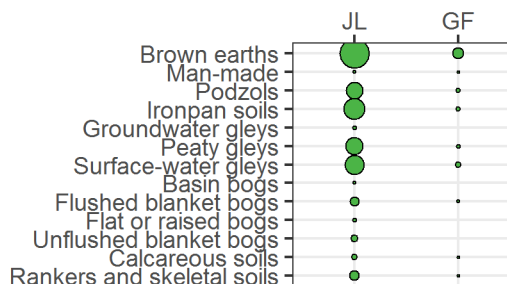


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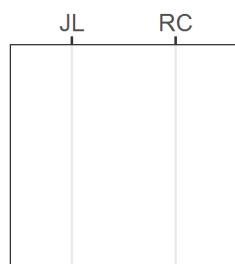
81 . JL and SC
no overlap



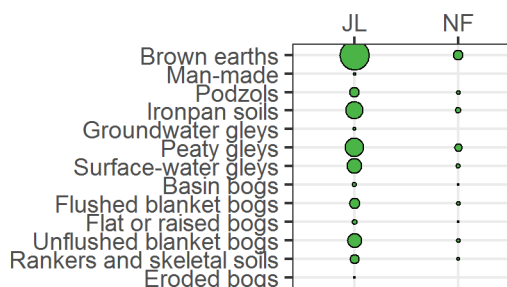
82 . JL and GF overlap
Cramer's V 0.14



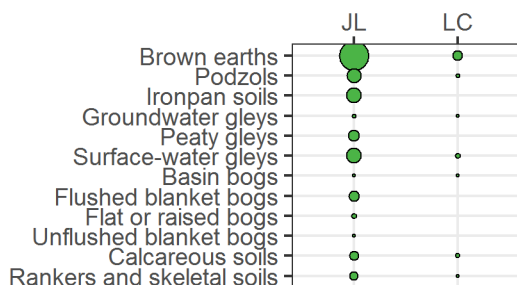
83 . JL and RC
no overlap



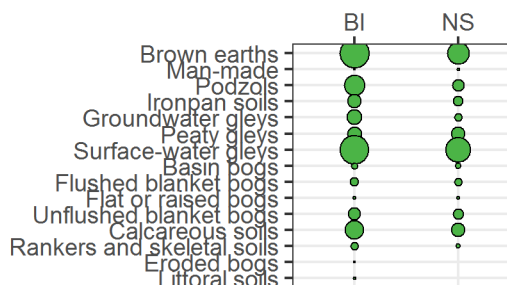
84 . JL and NF overlap
Cramer's V 0.08



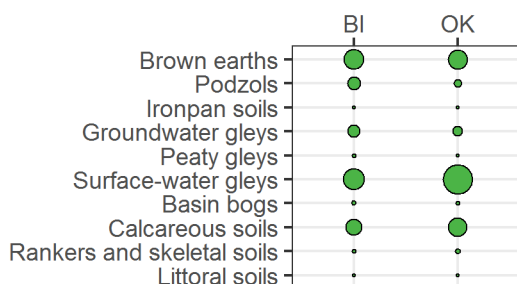
85 . JL and LC overlap
Cramer's V 0.2



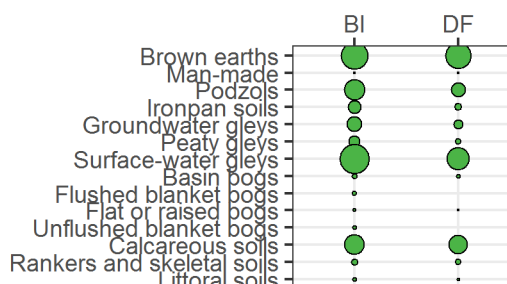
86 . BI and NS overlap
Cramer's V 0.17



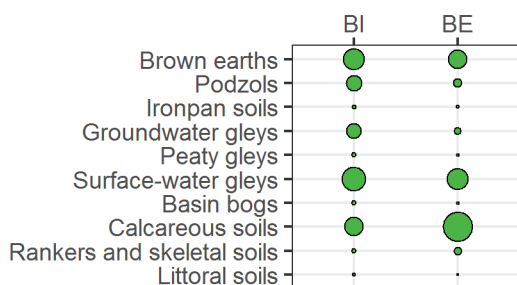
87 . BI and OK overlap
Cramer's V 0.26



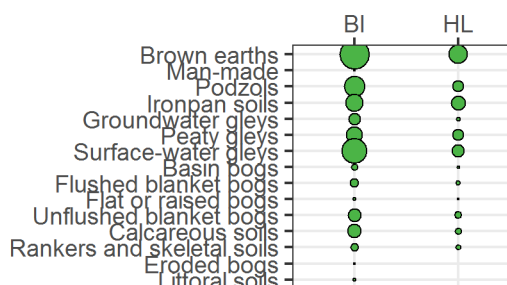
88 . BI and DF overlap
Cramer's V 0.19



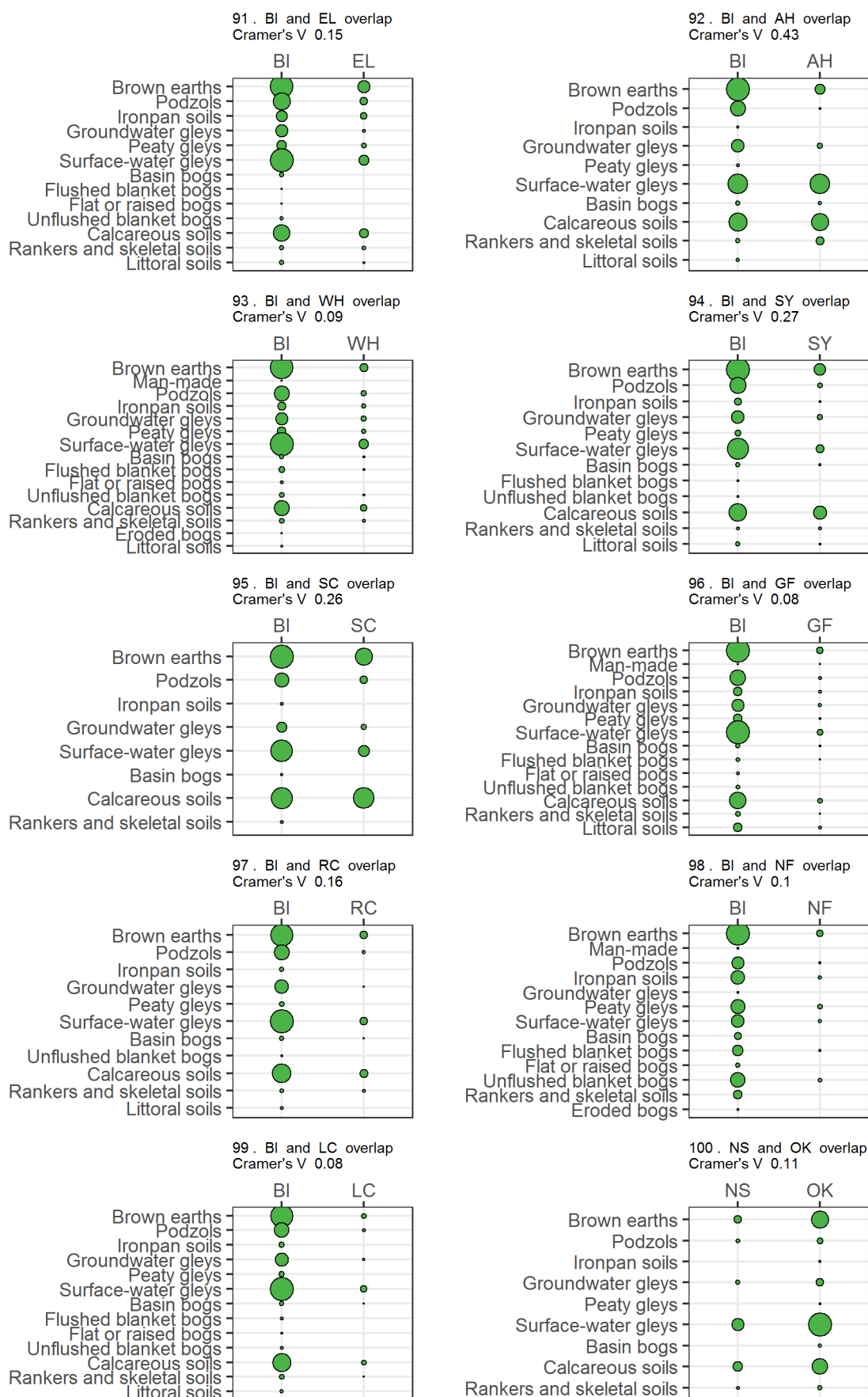
89 . BI and BE overlap
Cramer's V 0.39



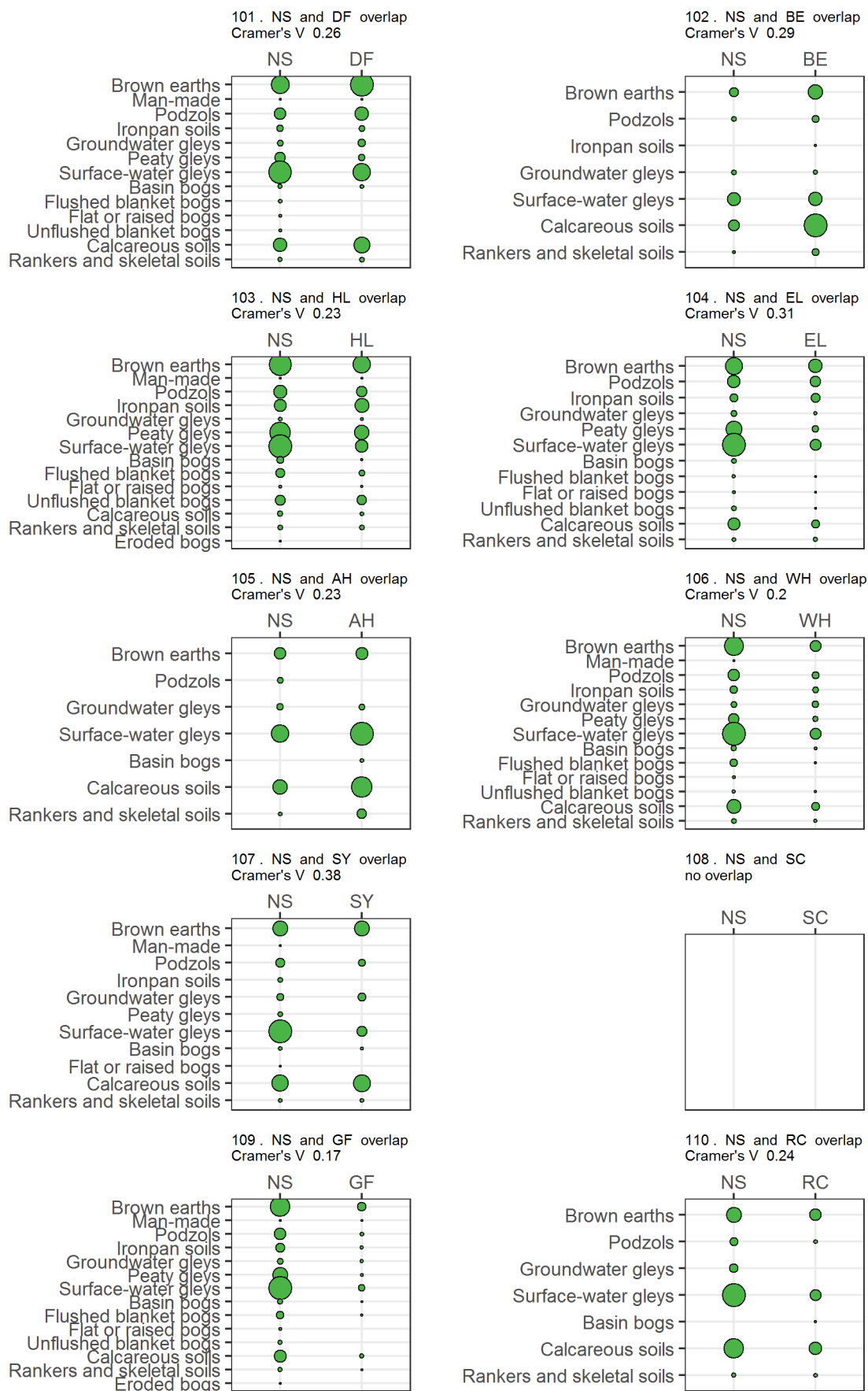
90 . BI and HL overlap
Cramer's V 0.19



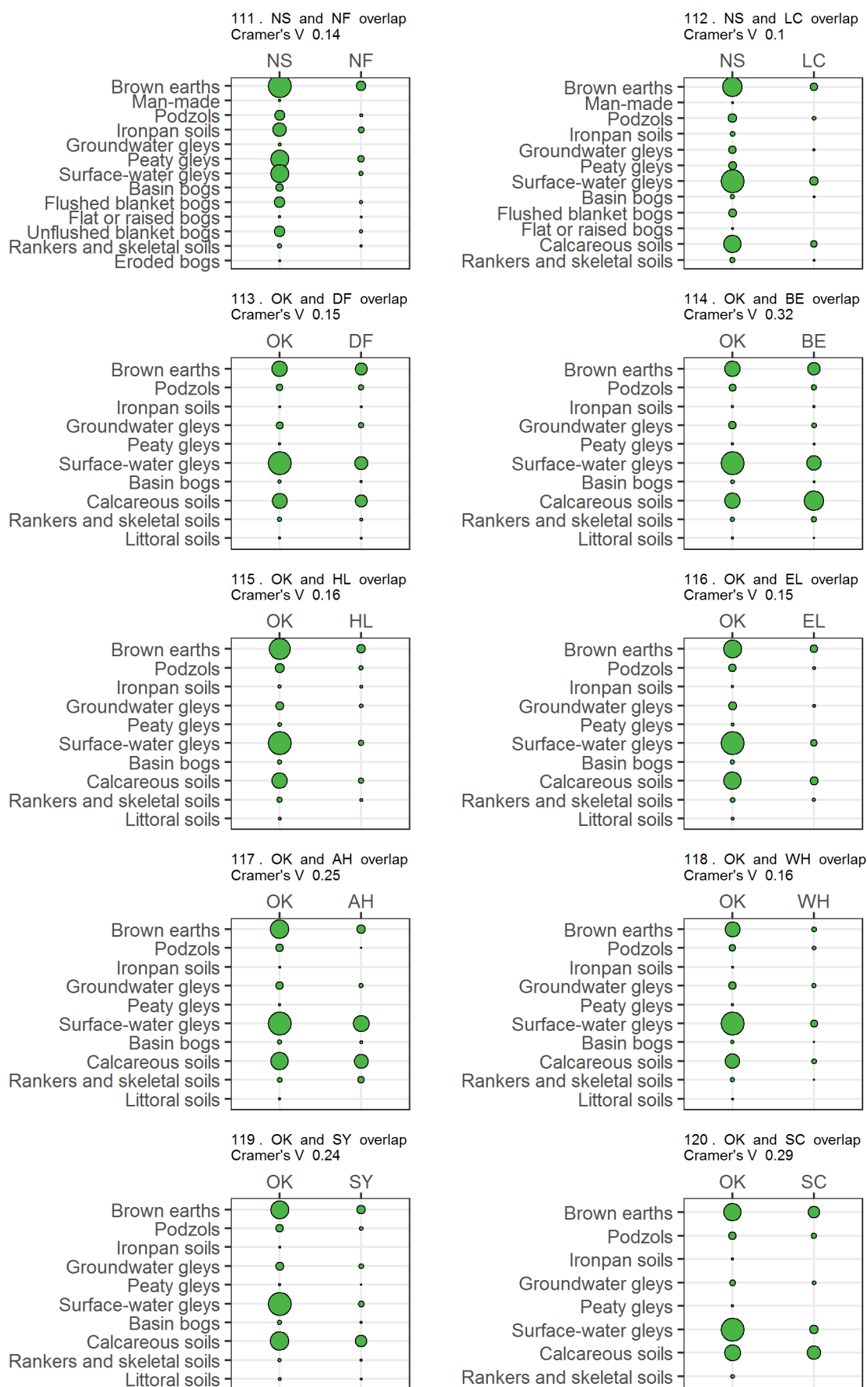
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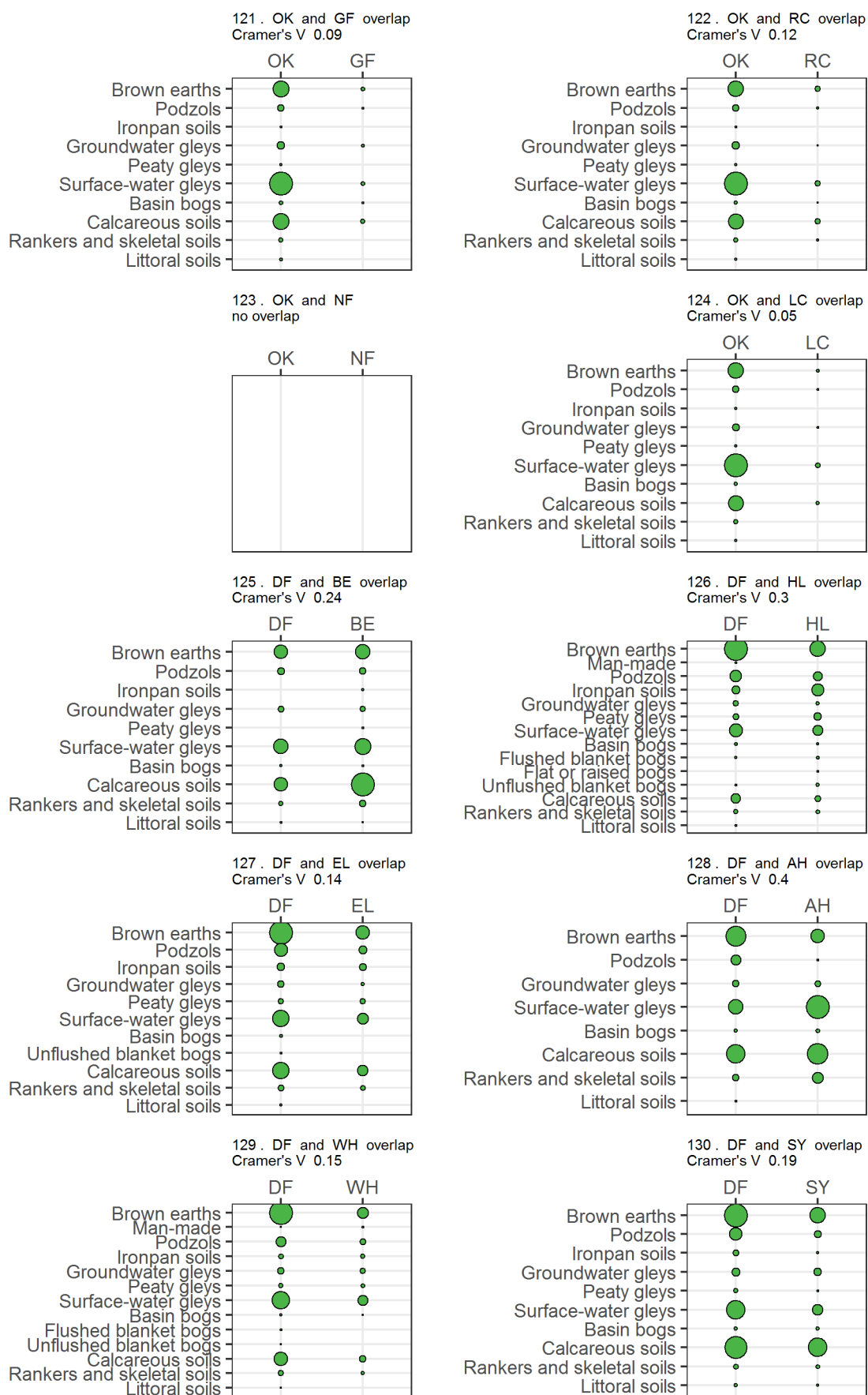


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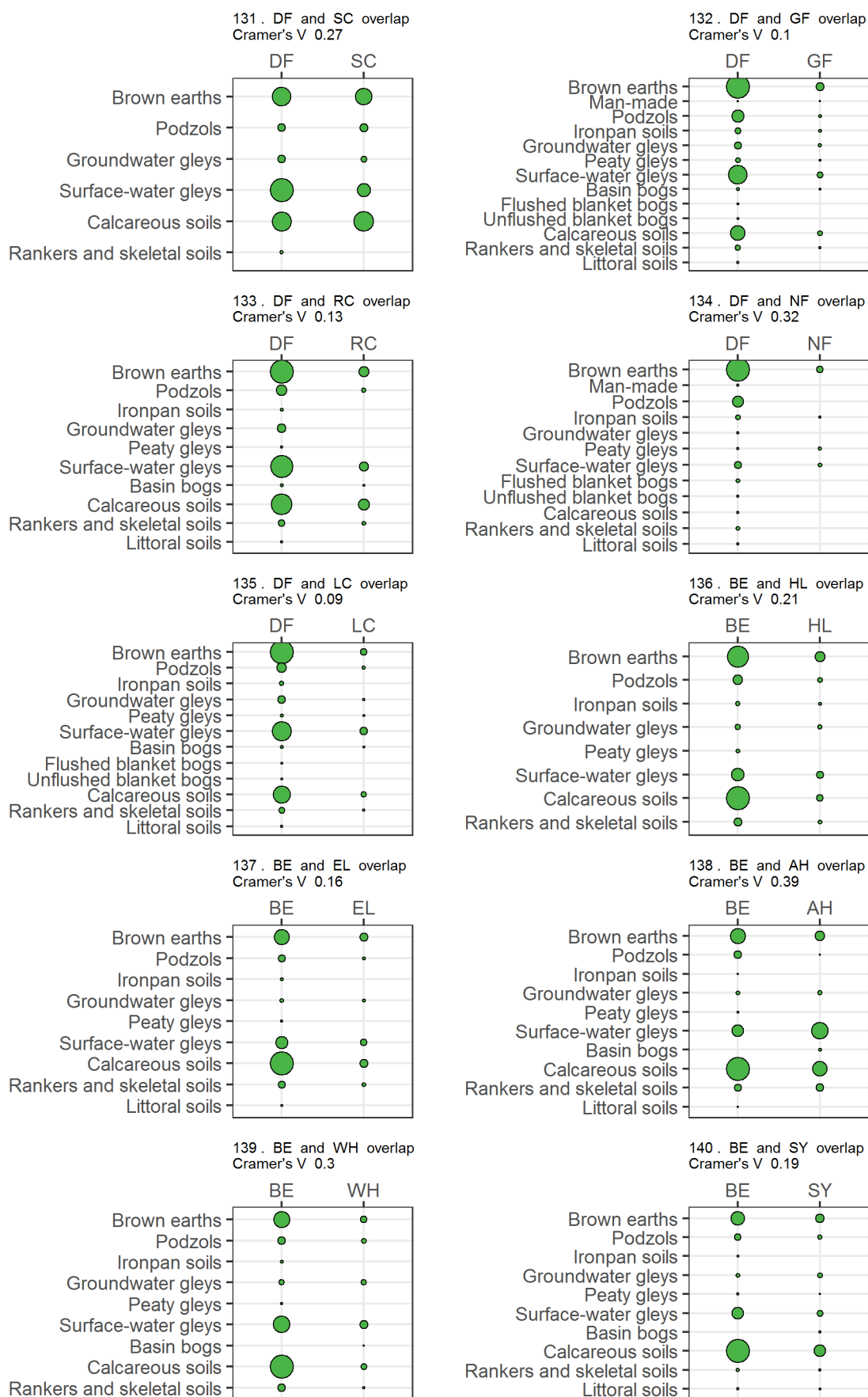




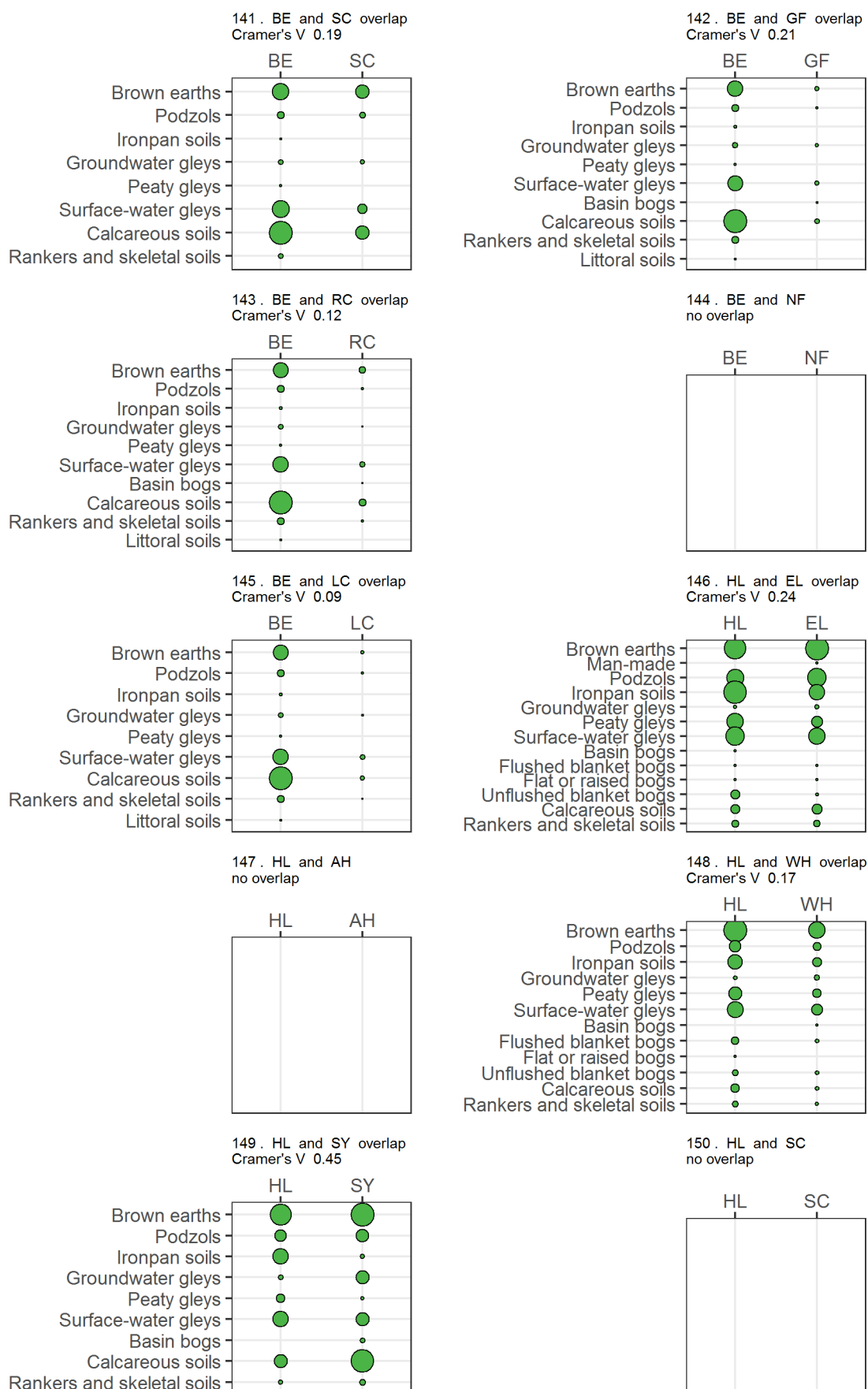
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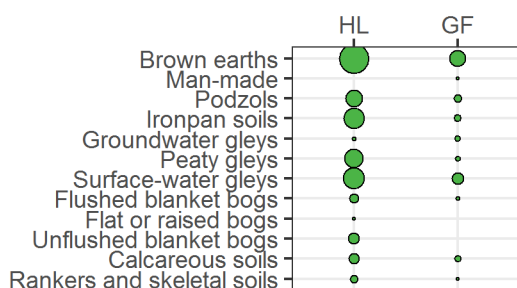


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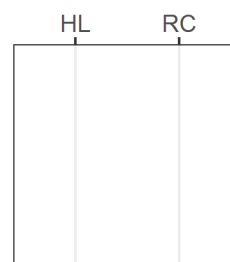


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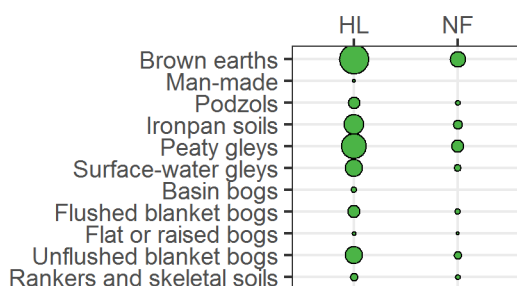
151 . HL and GF overlap
Cramer's V 0.26



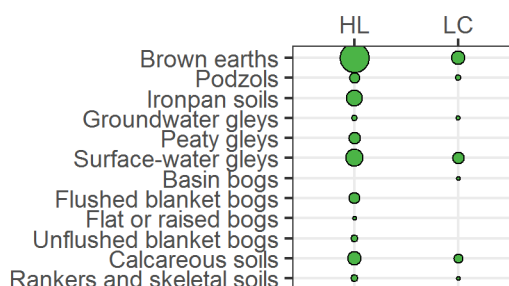
152 . HL and RC
no overlap



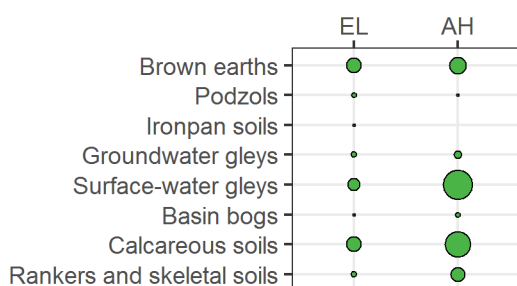
153 . HL and NF overlap
Cramer's V 0.09



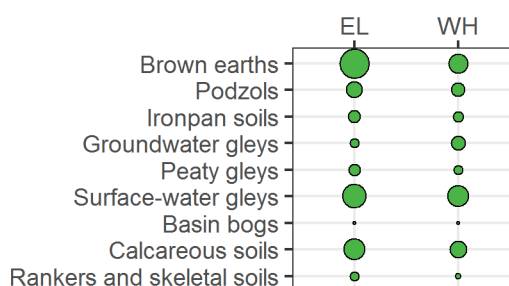
154 . HL and LC overlap
Cramer's V 0.3



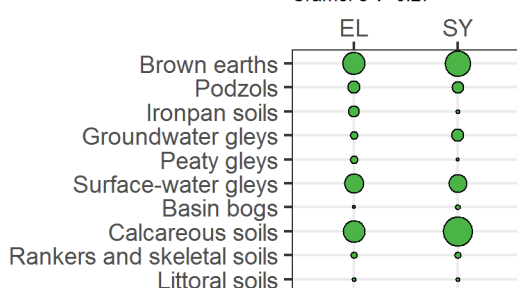
155 . EL and AH overlap
Cramer's V 0.29



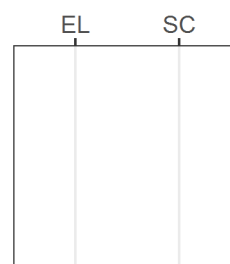
156 . EL and WH overlap
Cramer's V 0.23



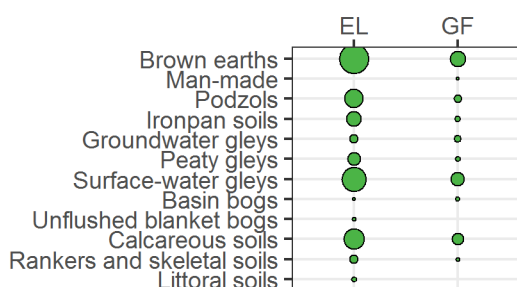
157 . EL and SY overlap
Cramer's V 0.27



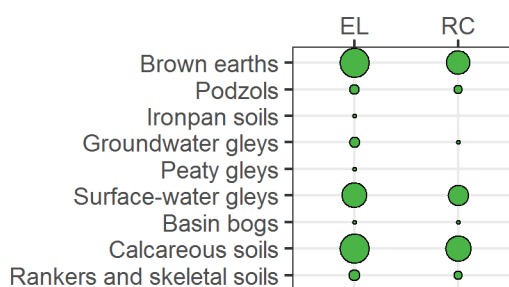
158 . EL and SC
no overlap



159 . EL and GF overlap
Cramer's V 0.19

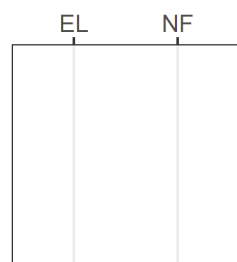


160 . EL and RC overlap
Cramer's V 0.12

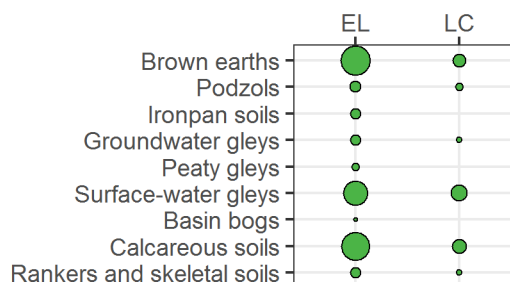


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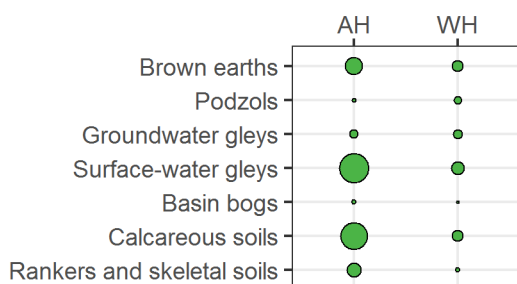
161 . EL and NF
no overlap



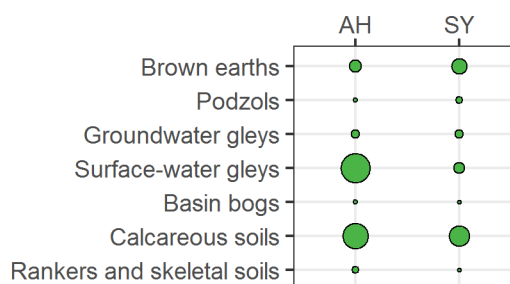
162 . EL and LC overlap
Cramer's V 0.19



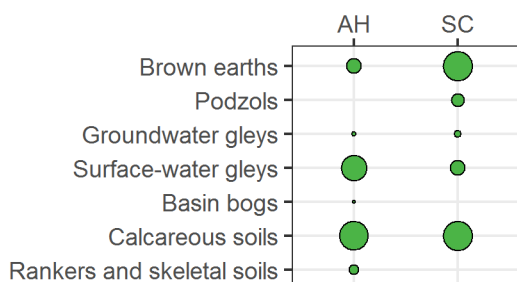
163 . AH and WH overlap
Cramer's V 0.36



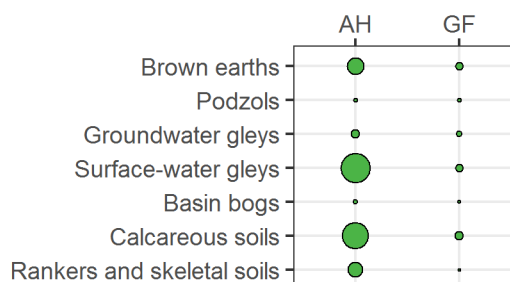
164 . AH and SY overlap
Cramer's V 0.43



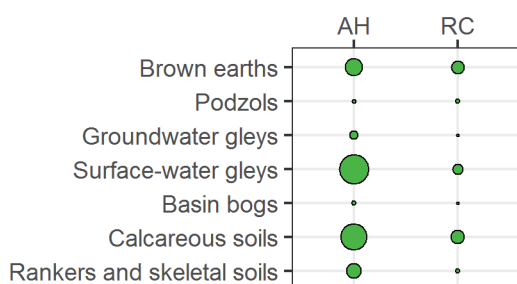
165 . AH and SC overlap
Cramer's V 0.47



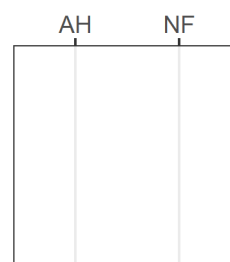
166 . AH and GF overlap
Cramer's V 0.23



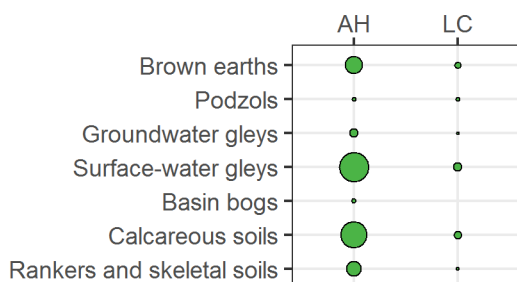
167 . AH and RC overlap
Cramer's V 0.25



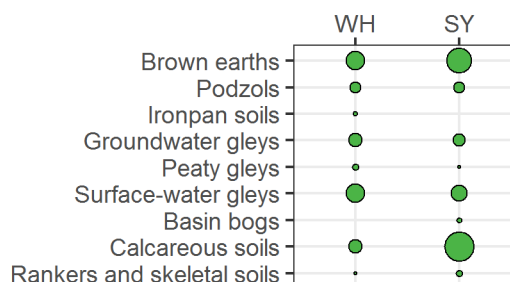
168 . AH and NF
no overlap



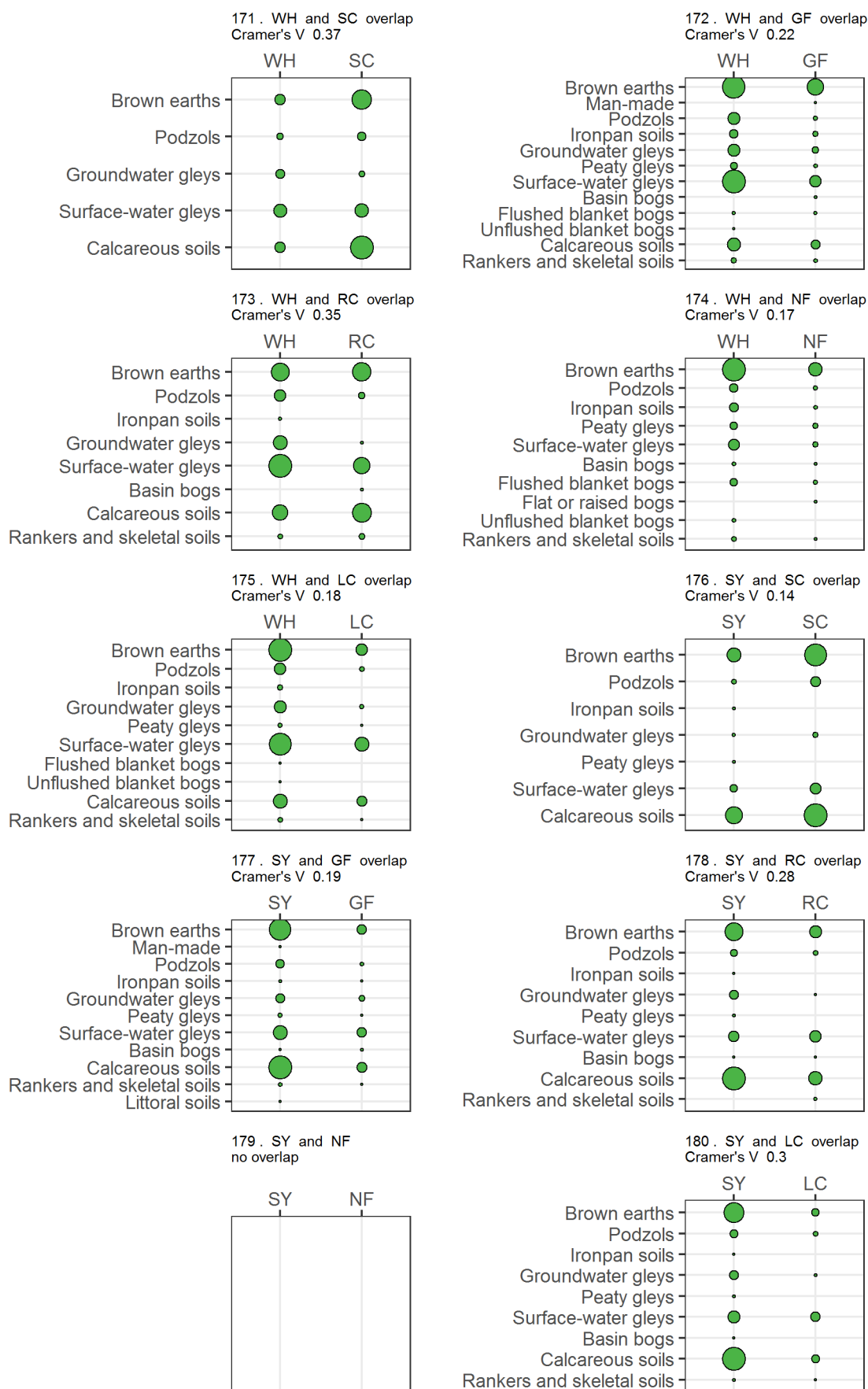
169 . AH and LC overlap
Cramer's V 0.17



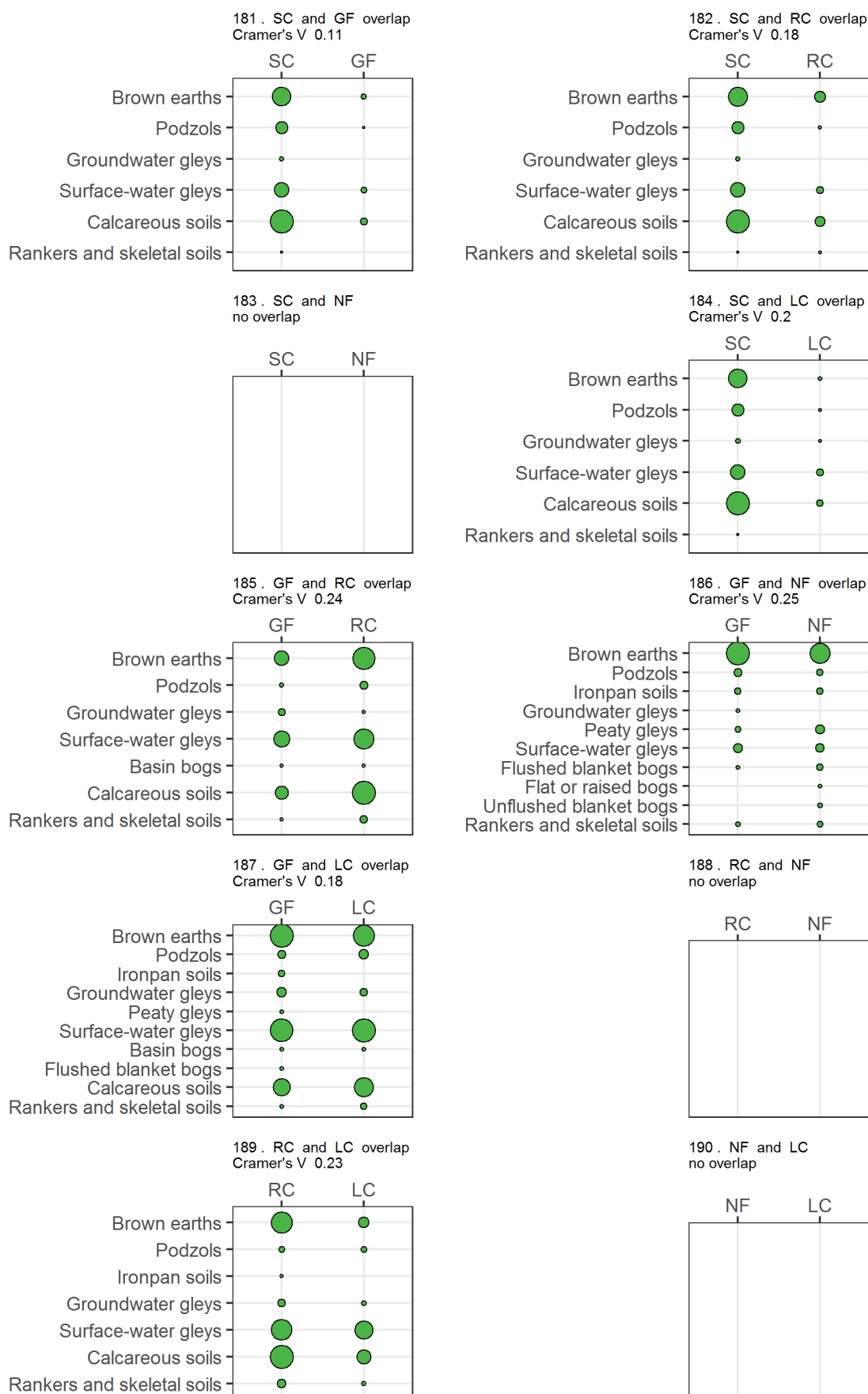
170 . WH and SY overlap
Cramer's V 0.38



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