

VIC RL and GC RAG #42

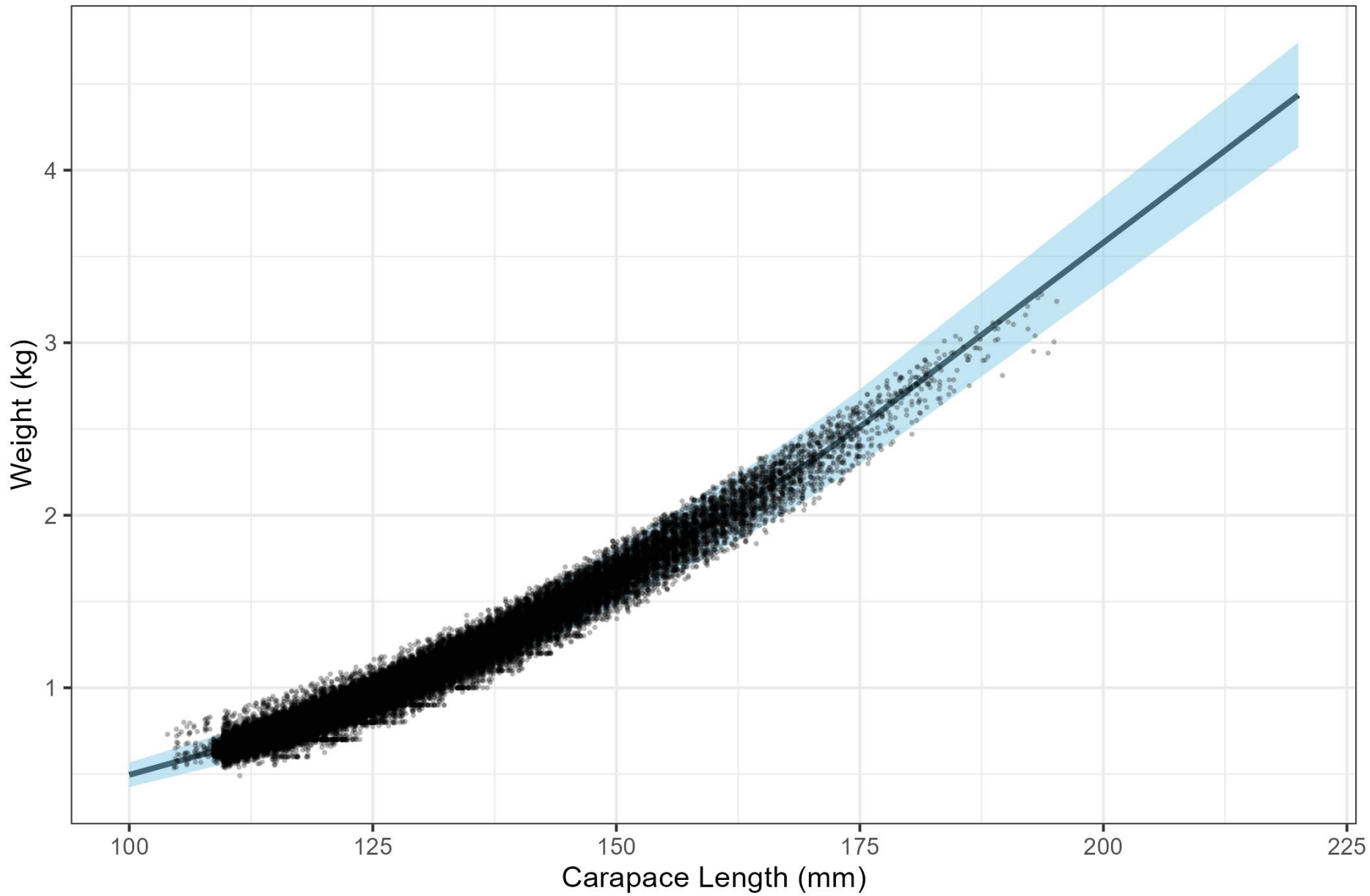
August 2024



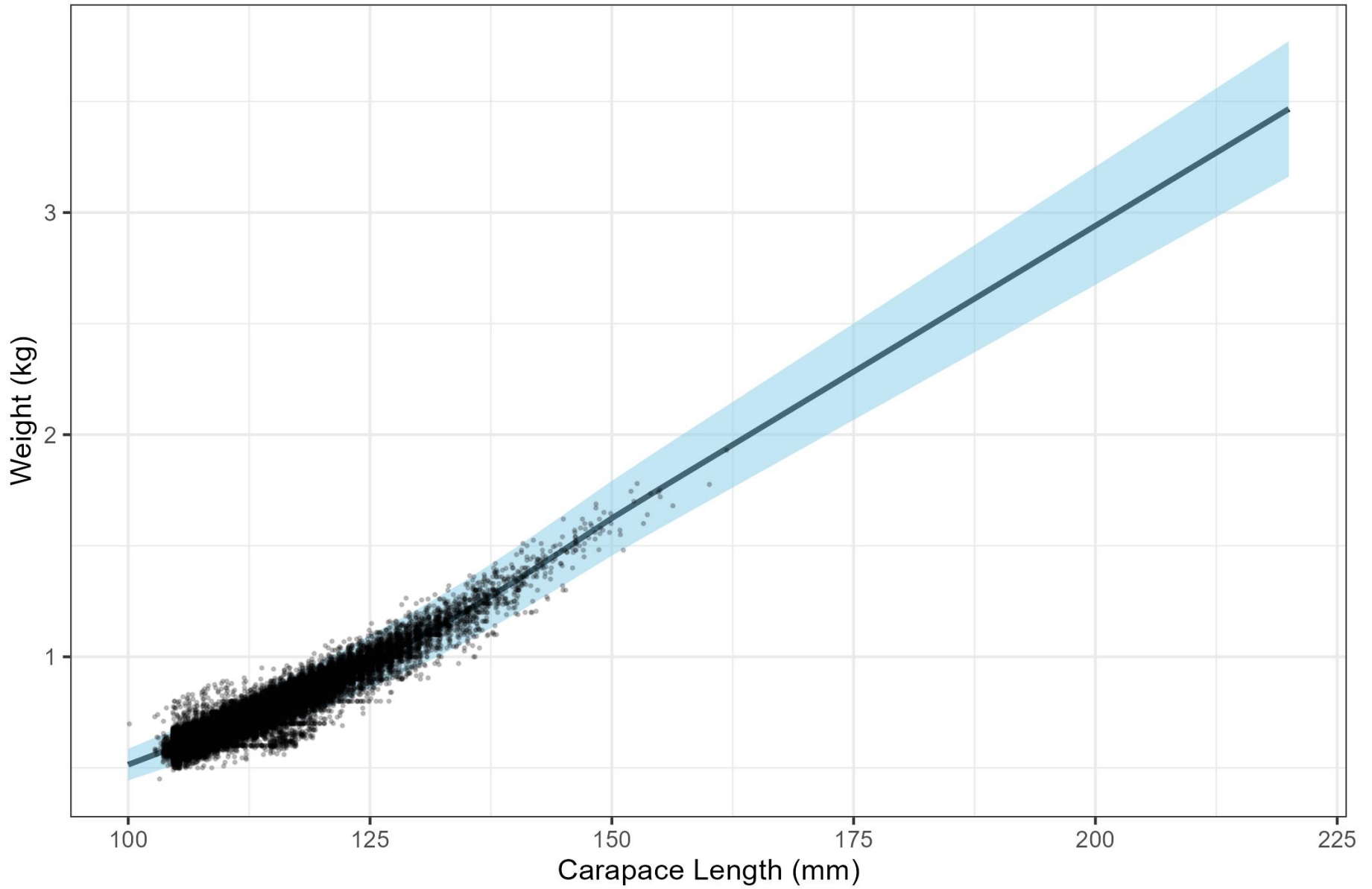
Length-Weight Relationship



Male



Female

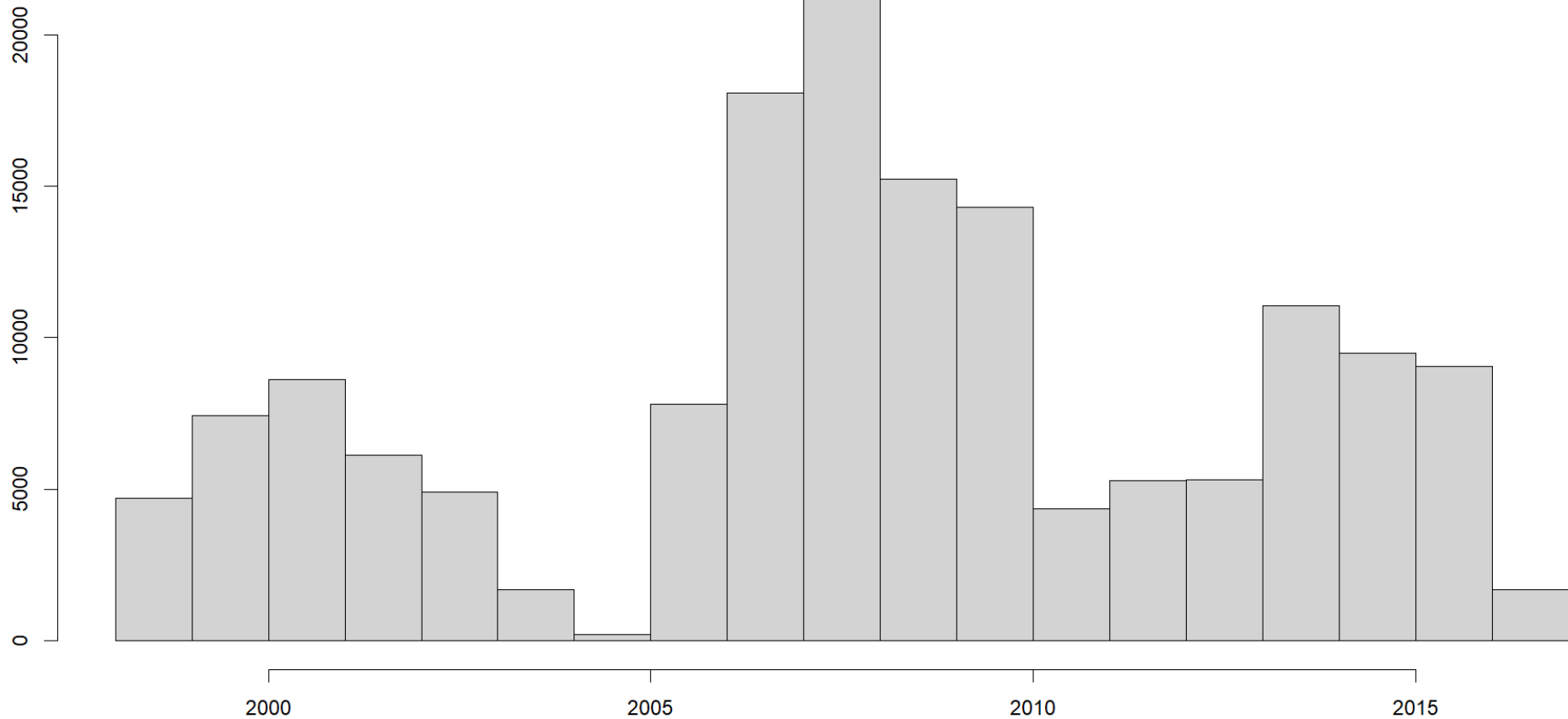


	Female			Male		
Length	Lower	Mean	Upper	Lower	Mean	Upper
100	443	514	585	424	495	566
105	516	597	678	493	574	655
110	592	683	773	563	653	744
115	673	773	874	641	741	842
120	762	872	982	732	842	952
125	858	977	1097	833	953	1073
130	957	1086	1216	942	1072	1201
135	1068	1207	1347	1061	1200	1340
140	1191	1340	1489	1191	1340	1489
145	1322	1481	1640	1330	1489	1647
150	1455	1624	1792	1476	1644	1813
155	1579	1758	1936	1628	1806	1984
160	1701	1889	2077	1781	1969	2157
165	1823	2020	2218	1937	2135	2332
170	1944	2152	2359	2105	2313	2520
175	2066	2283	2501	2296	2513	2730
180	2188	2415	2642	2499	2725	2952
185	2310	2546	2783	2702	2939	3176
190	2431	2678	2924	2906	3153	3399
195	2553	2809	3065	3110	3367	3623
200				3314	3580	3846
205				3518	3794	4070
210				3722	4008	4293
215				3926	4222	4517
220				4130	4435	4740

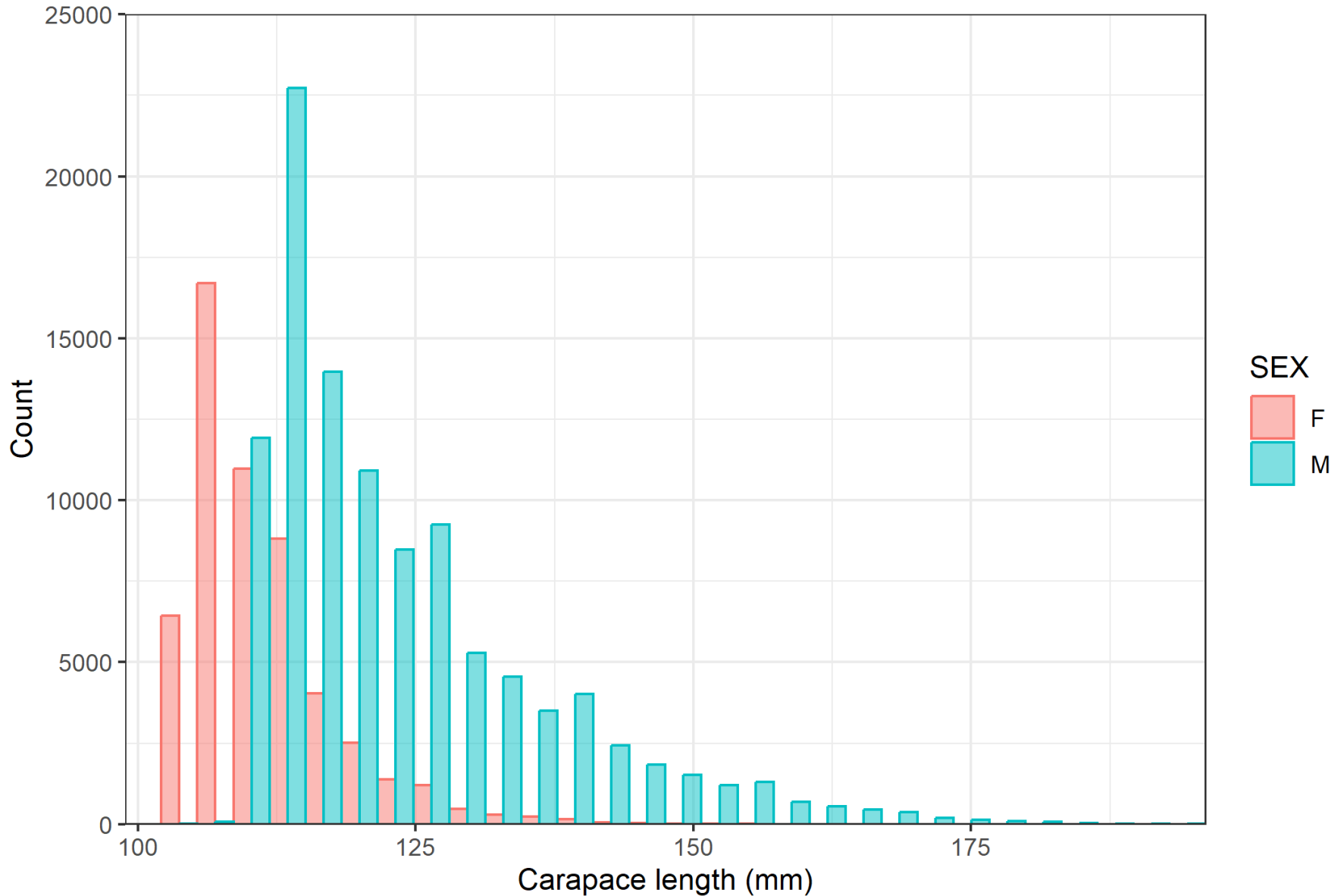
Length-Weight Data

- 159,000 observations (after filtering). 1/3 Female, 2/3 Male
- From 1998 to 2017
- Primarily from Western Zone (1648 measurements in Queenscliff)
- Spread across red, strawberry and white

Temporal Distribution

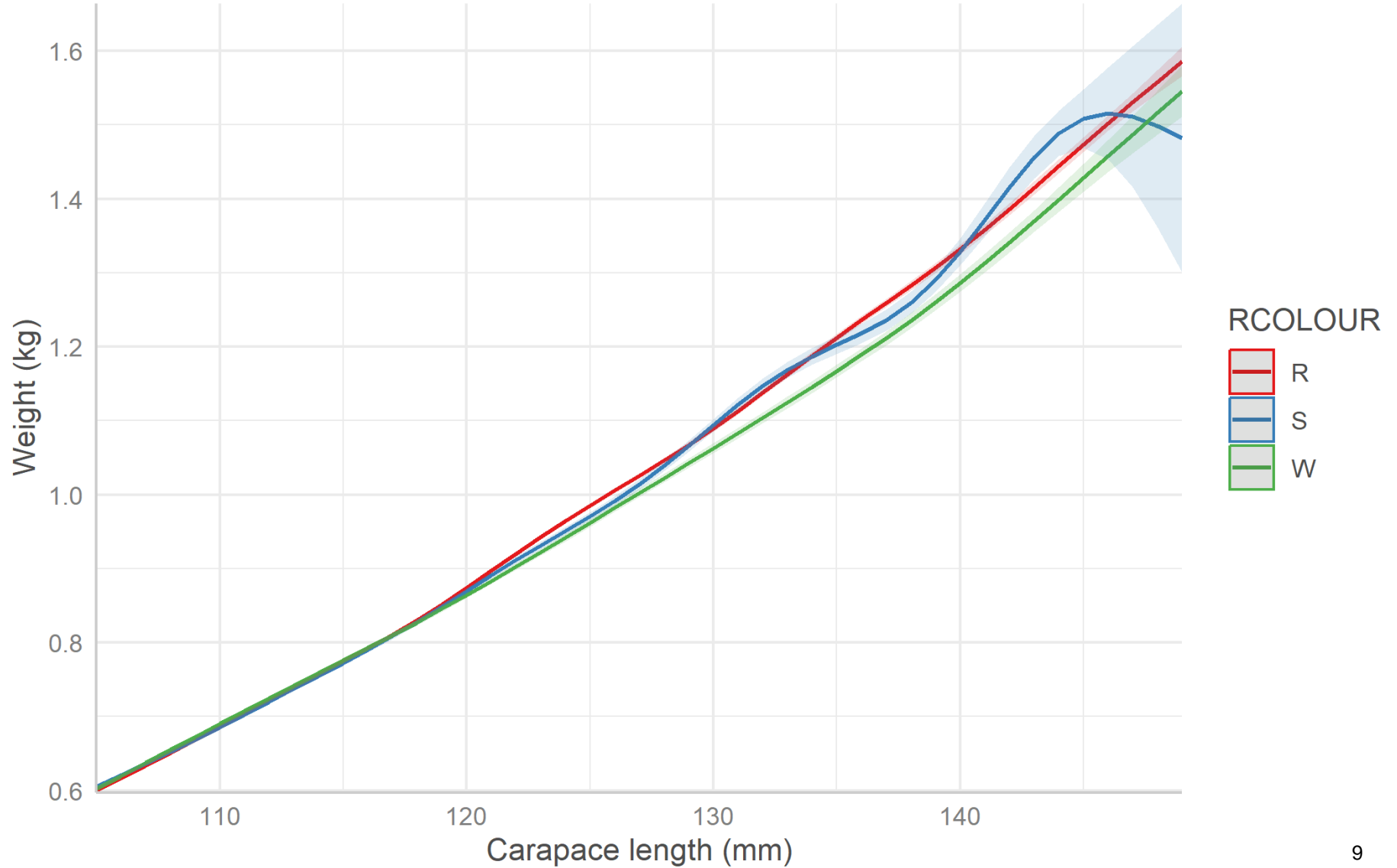


Size-sex distribution



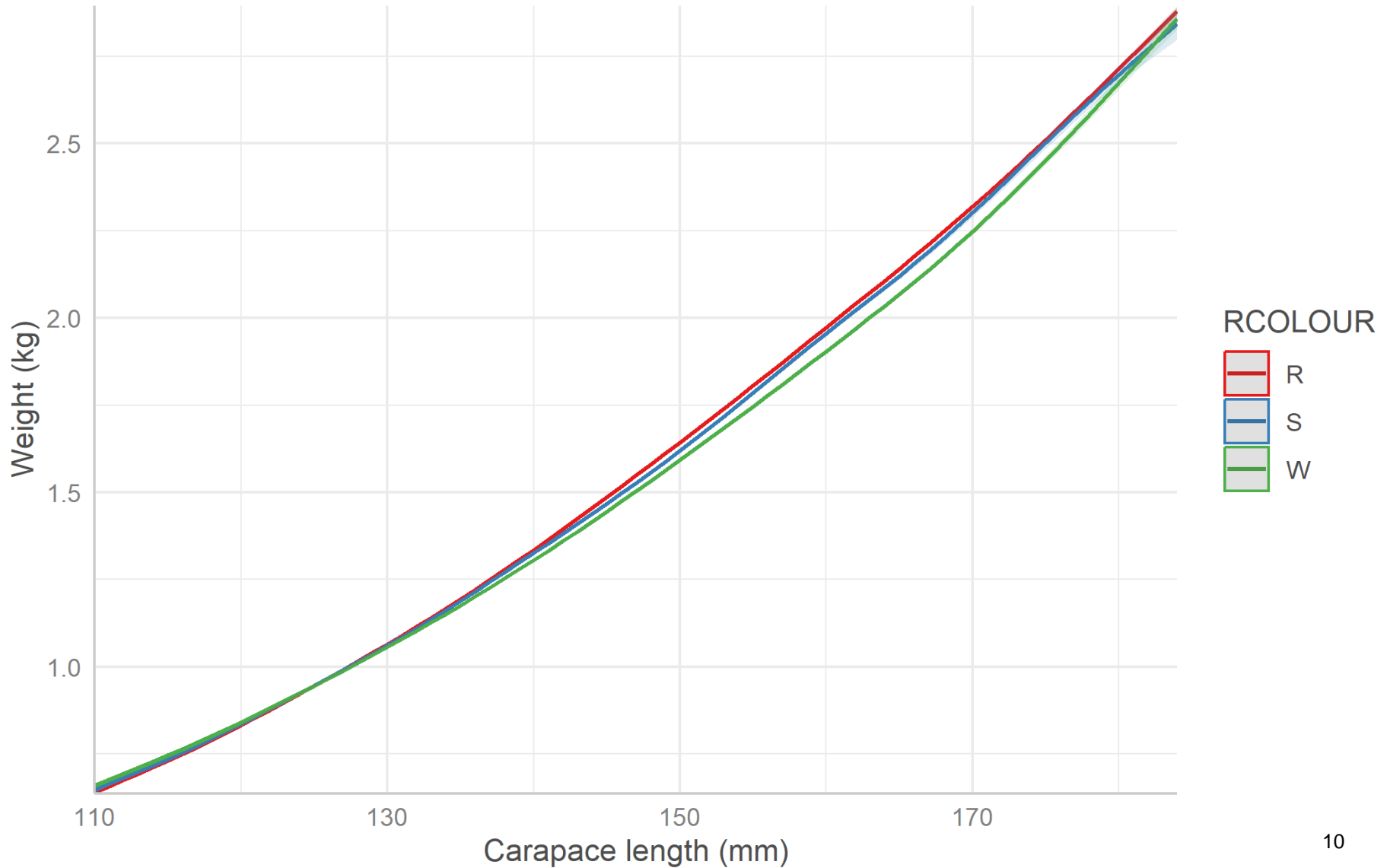
Female

Predicted values of WEIGHT



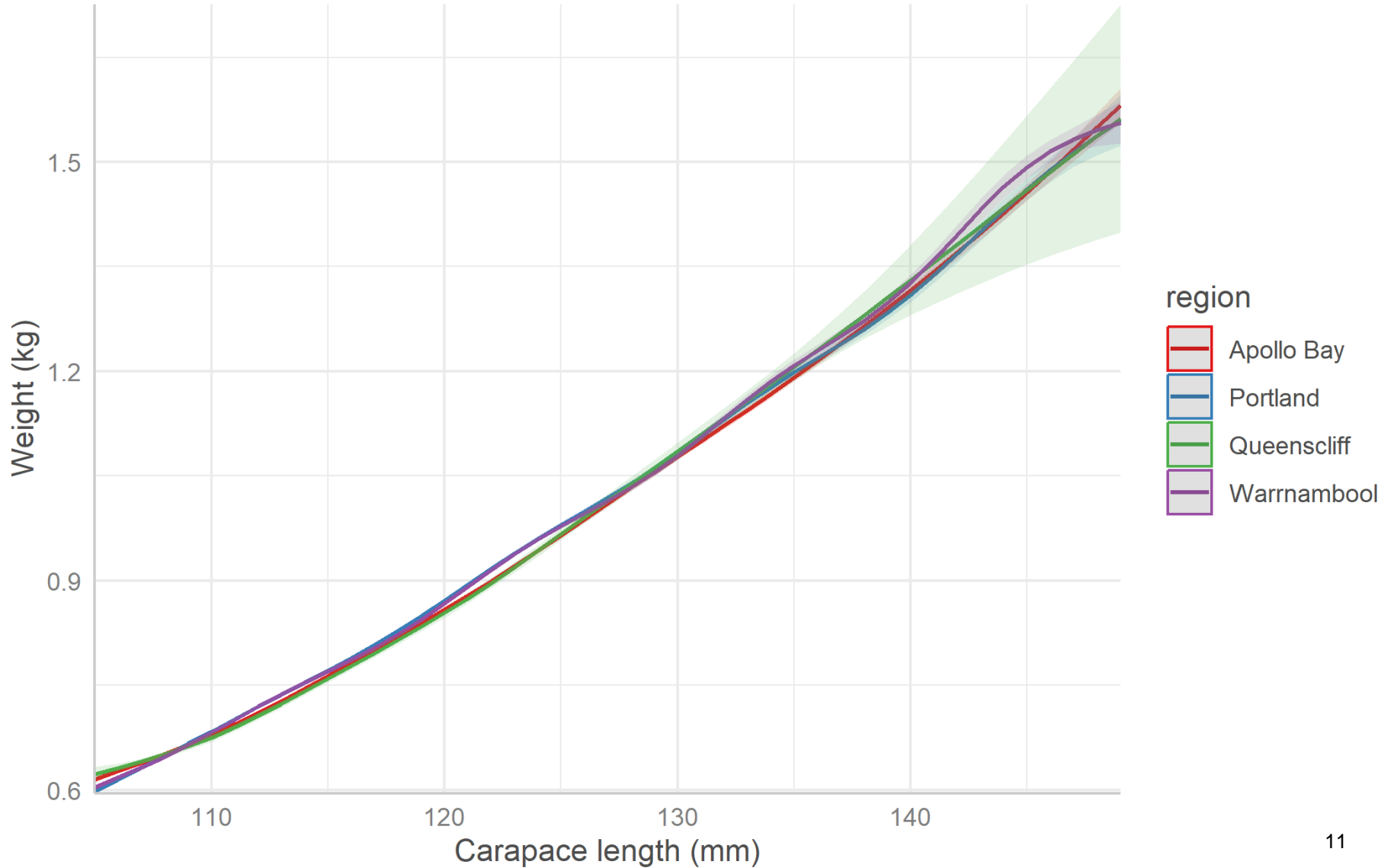
Male

Predicted values of WEIGHT



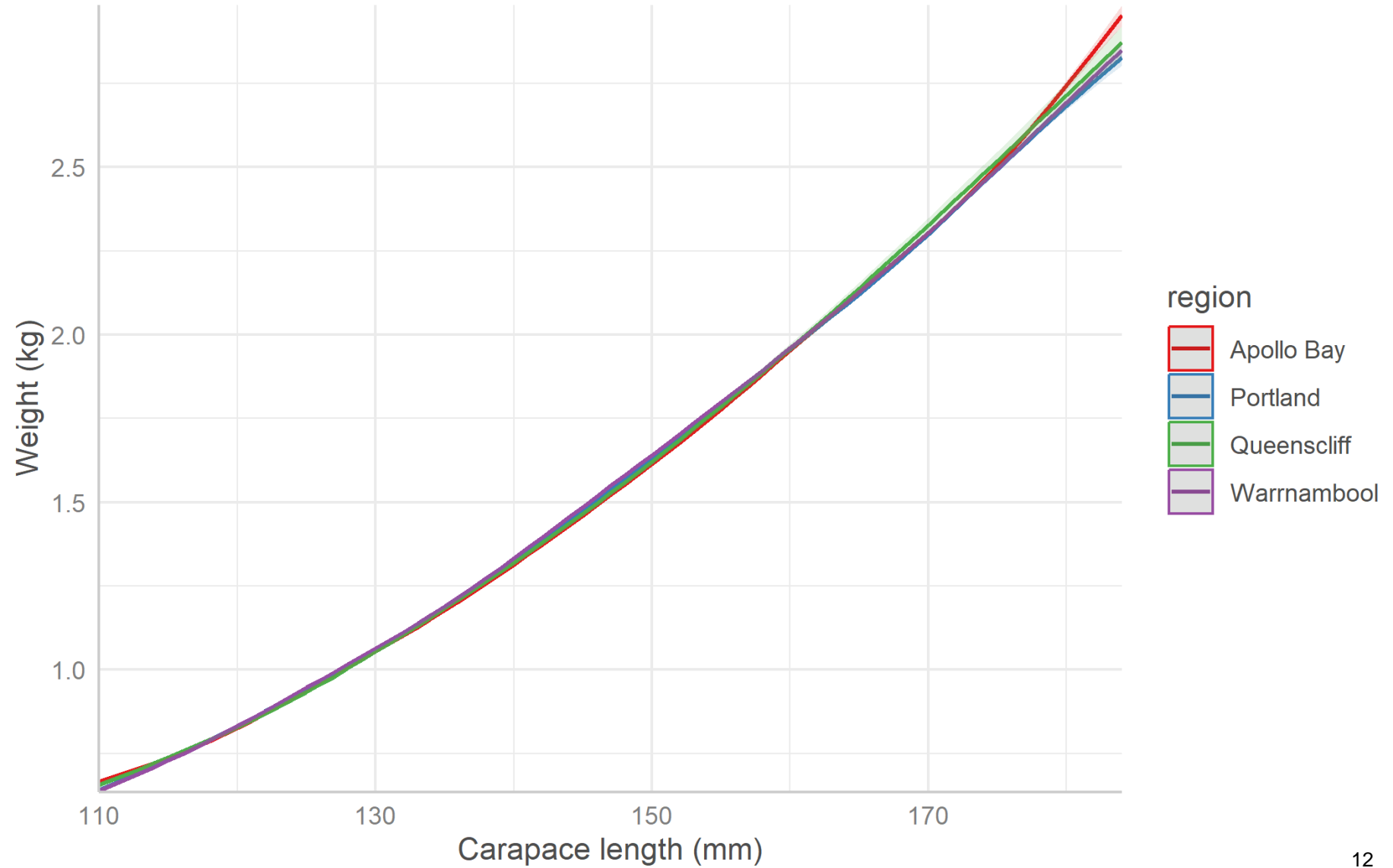
Female

Predicted values of WEIGHT



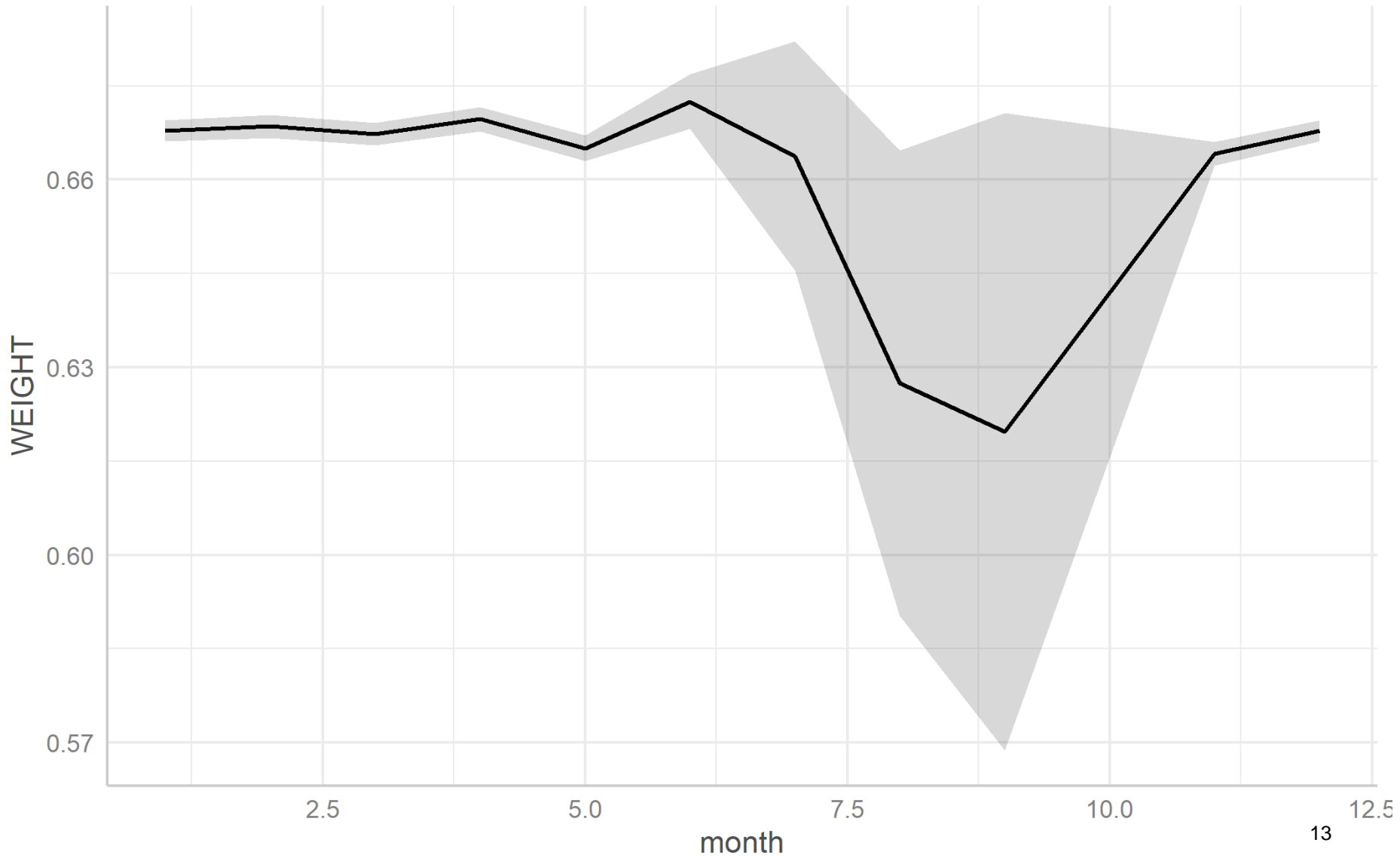
Male

Predicted values of WEIGHT



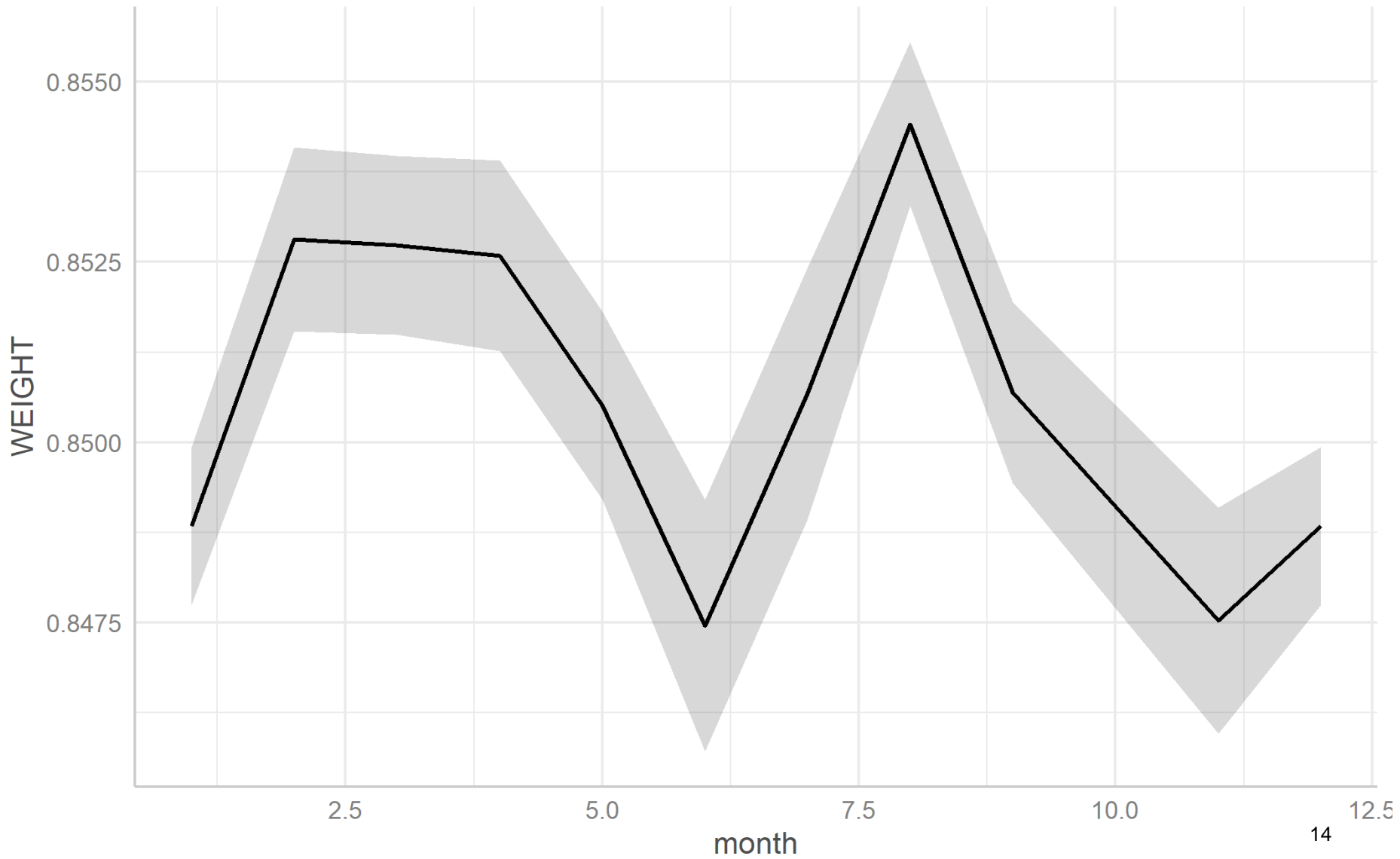
Female

Predicted values of WEIGHT



Male

Predicted values of WEIGHT



Conclusions

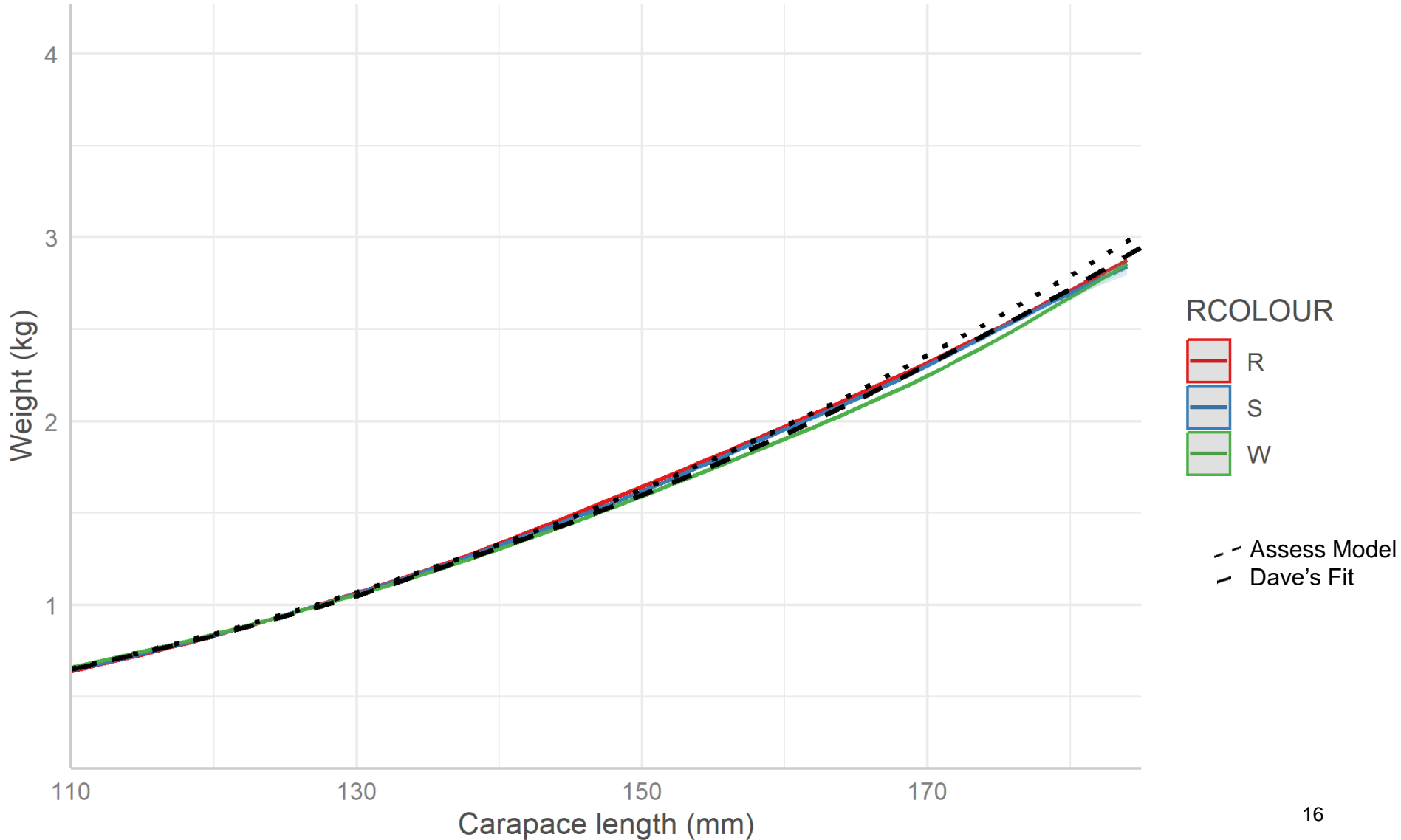
- Regional differences are statistically significant but minimal
- Depth/colour difference is stat. sig., ~2%, not accounting for this likely remains appropriate
- Seasonal variability is ~ 0.5%

Temporal and spatial variability is low and likely does not require further quantification

Inter-annual variability was significant but confounded with other aspects. Unlikely to have impact on assessment outputs, but if very low cost to obtain may be worth monitoring.

Male

Predicted values of WEIGHT



Female

Predicted values of WEIGHT

