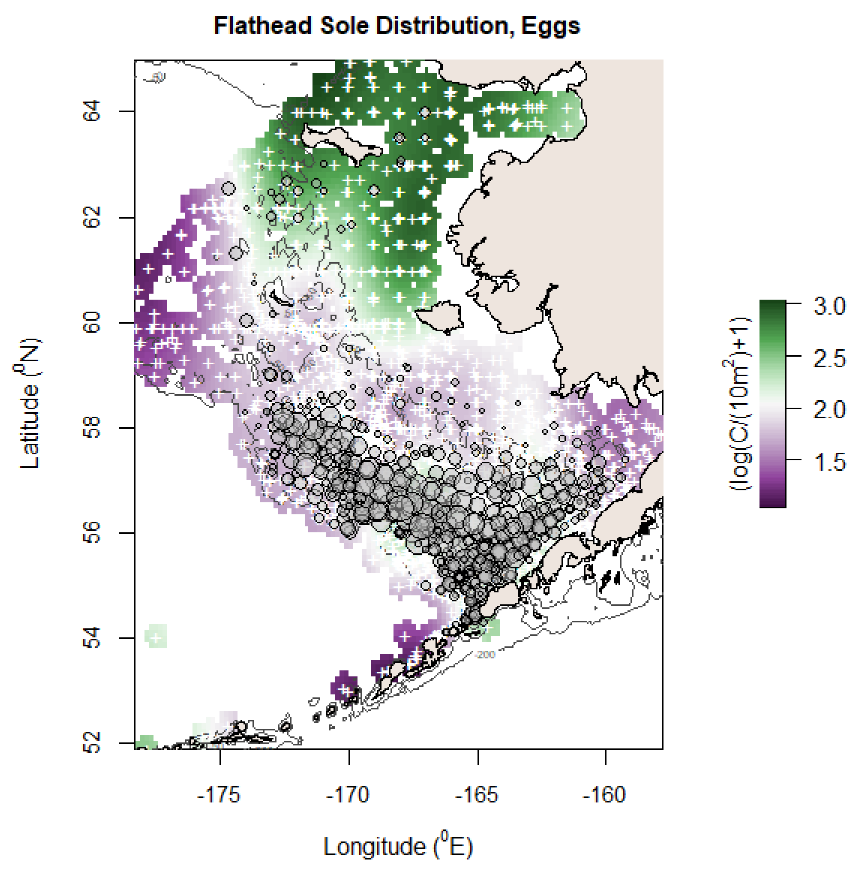
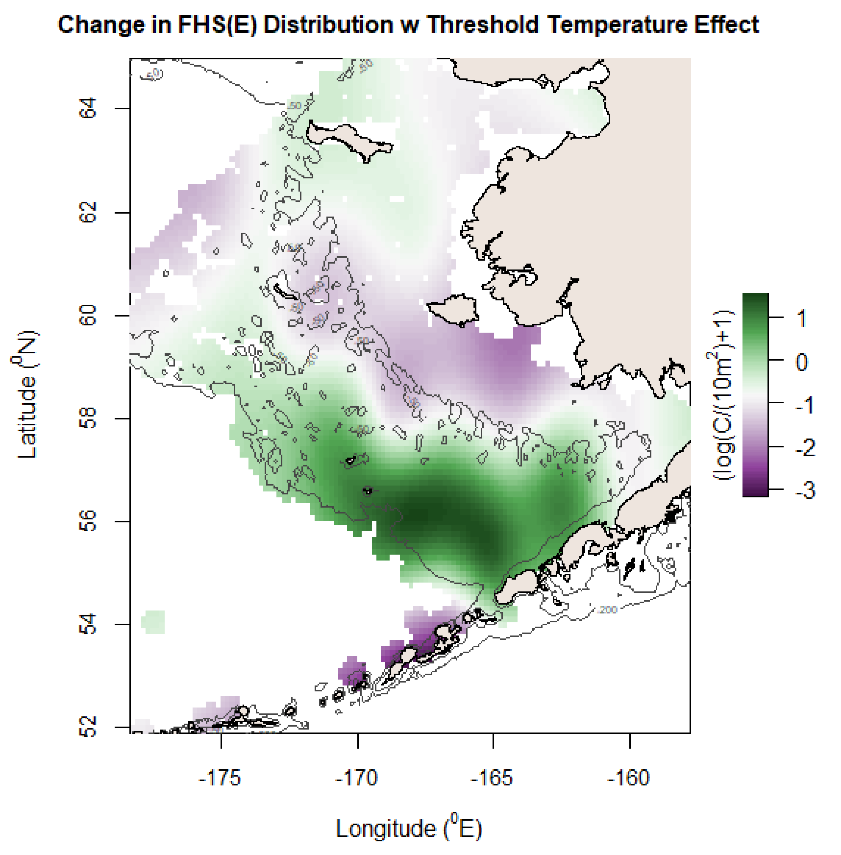
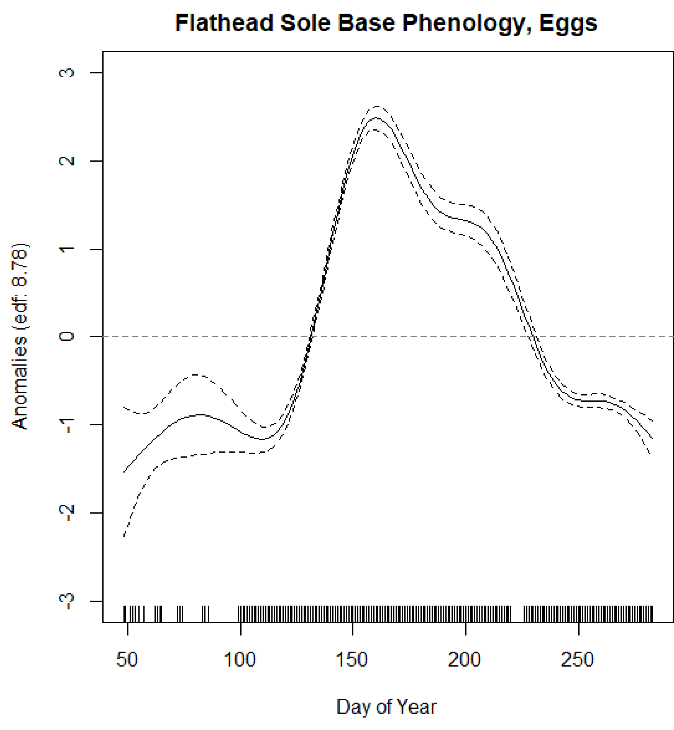
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Species | Life Stage | Best Model | ΔMSE | ΔAIC | Deviance Explained |
| Alaska Plaice | Egg |  | 0.149 | 463.75 | 75% |
| Larvae |  | 0.151 | 403.40 | 82.9% |
| Rex Sole | Egg |  | 0.171 | 708.68 | 61.3% |
| Larvae |  | 0.052 | 113.18 | 17.3% |
| Walleye Pollock | Egg | (Log(Catch per 10m2)+1) = *factor*(year) + *s*(doy) + *s*(bottom depth, k=5) + *g*(longitude, latitude, by = threshold regional SST) + *e*doy,year,(lon,lat) | 0.133 | 591.2 | 58.1% |
| Larvae |  | 0.144 | 578.1 | 71.9% |
| Yellowfin Sole | Egg | (Log(Catch per 10m2)+1) = *factor*(year) + *s*(doy) + *s*(bottom depth, k=5) + *g*(doy, by = threshold regional SST) + *e*doy,year,(lon,lat) | 0.111 | 507.03 | 68.7% |
| Larvae |  | 0.194 | 569.00 | 83.8% |
| Flathead Sole | Egg | (Log(Catch per 10m2)+1) = *factor*(year) + *s*(doy) + *s*(bottom depth, k=5) + *g*(doy, by = threshold regional SST) + *e*doy,year,(lon,lat) | 0.180 | 940.95 | 76.10% |
|  | Larvae |  | 0.152 | 401.86 | 70.9% |
| Pacific Cod | Larvae |  | 0.071 | 225.6 | 71.7% |
| Northern Rock Sole | Larvae |  | 0.102 | 371.4 | 69.5% |

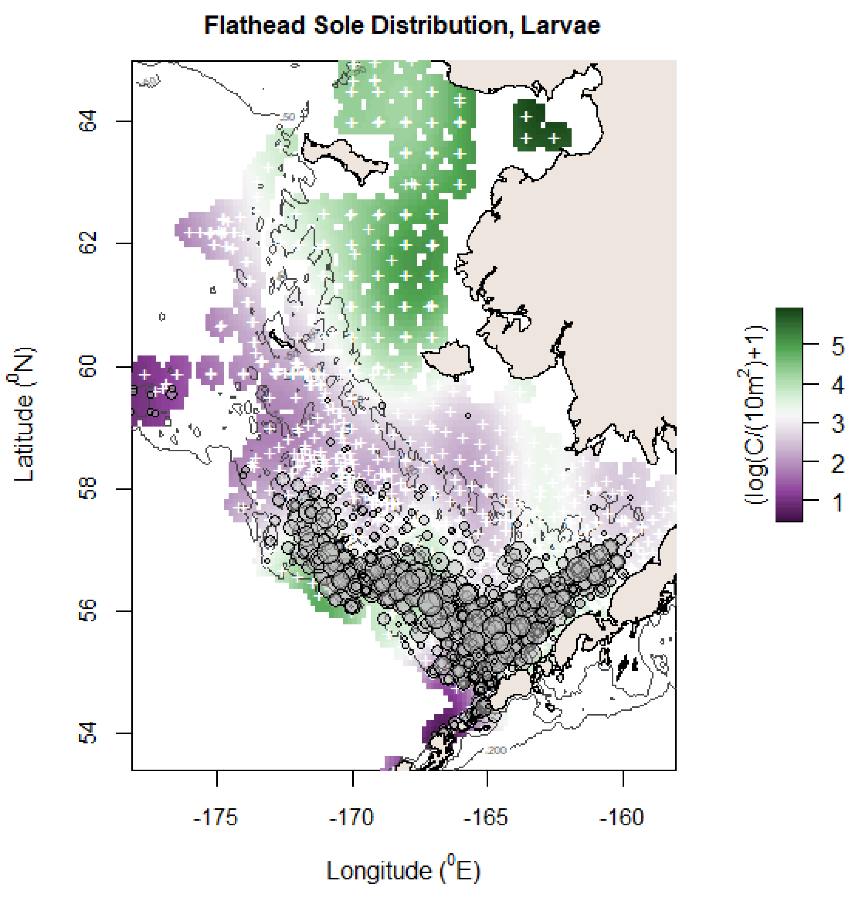
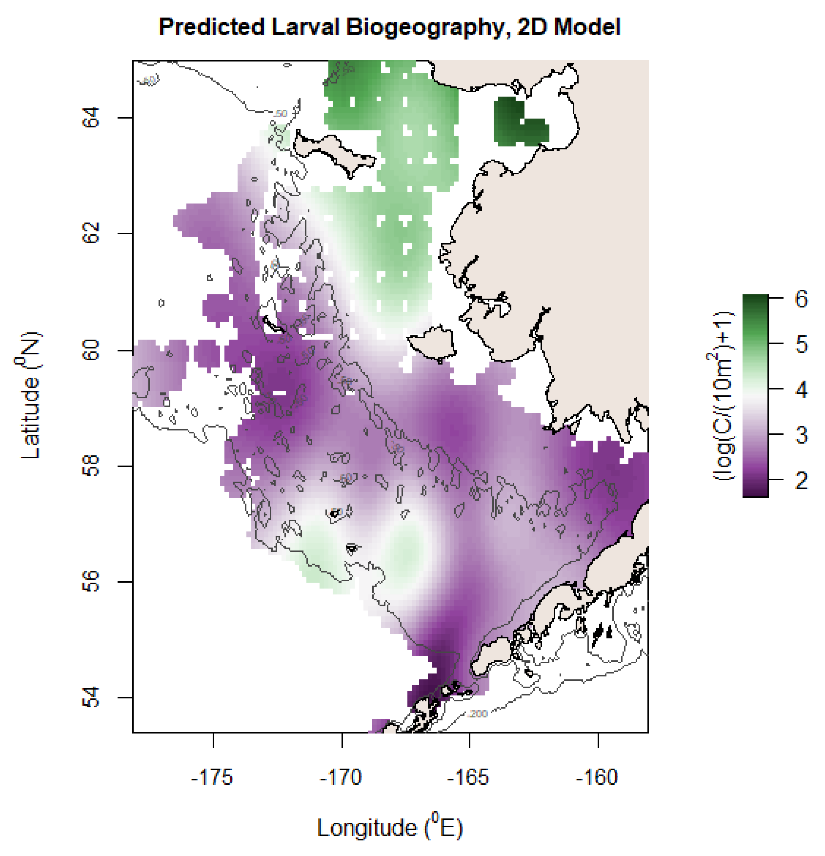
\*MSE was calculated by subtracting best model MSE from base model MSE, therefore positive values indicate a reduction in MSE relative to the base model. AIC was calculated the same way, thus positive differences in AIC indicate a reduction in AIC relative to the base model.



MSE reduction: 0.190, AIC reduction: 1334.0, Deviance Explained: 75.8%

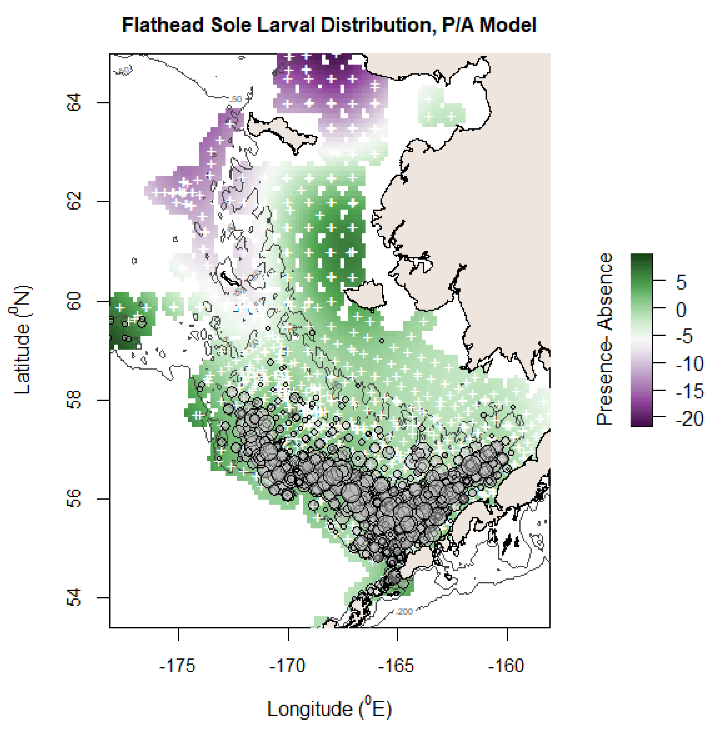
Deviance explained: 69.3%

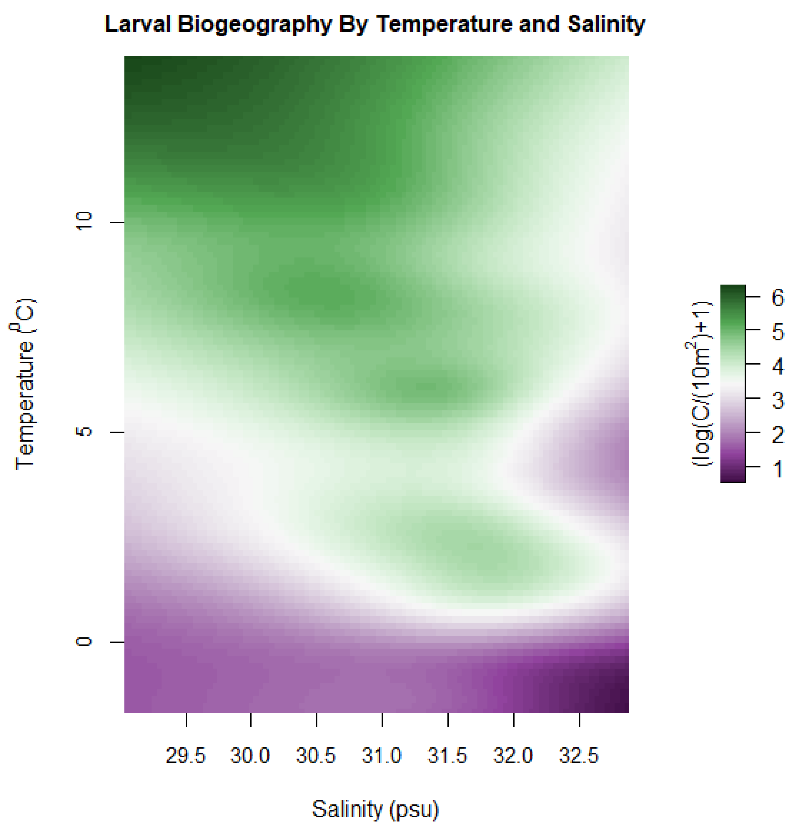
MSE reduction: 0.105, AIC reduction: 690.8, Deviance Explained: 73%



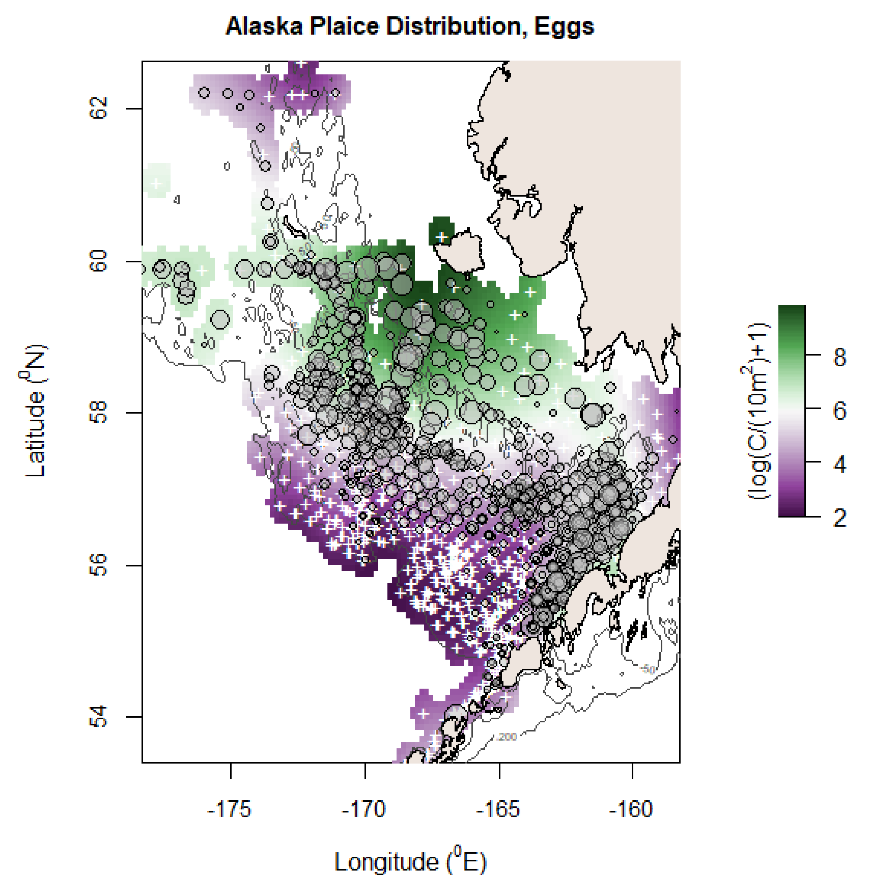
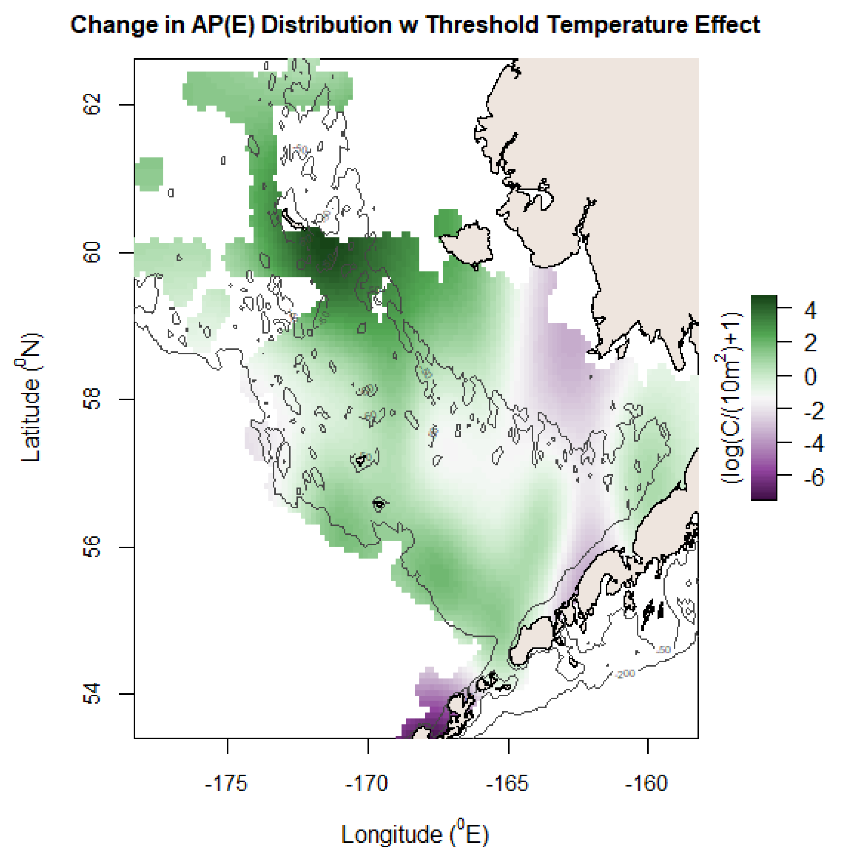
MSE reduction: 0.126, AIC reduction: 407.67, Deviance Explained: 72%

Deviance explained: 67%

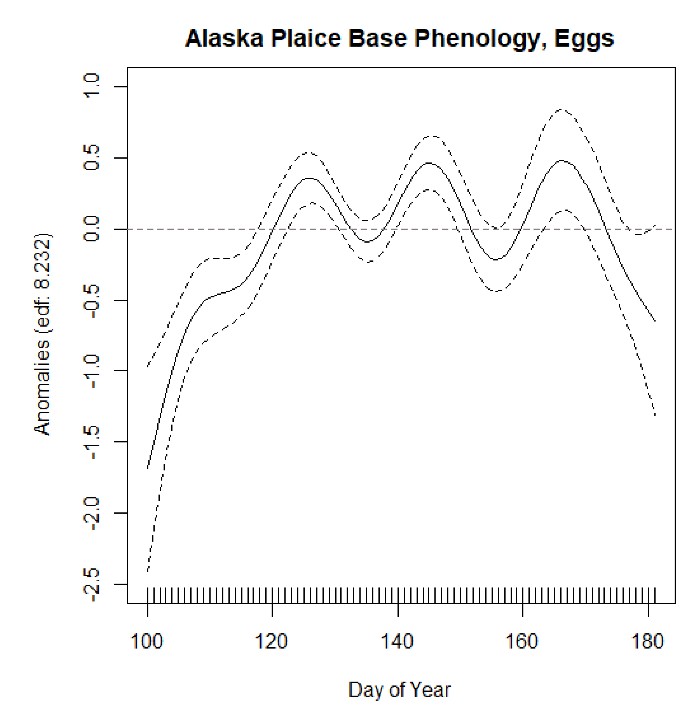
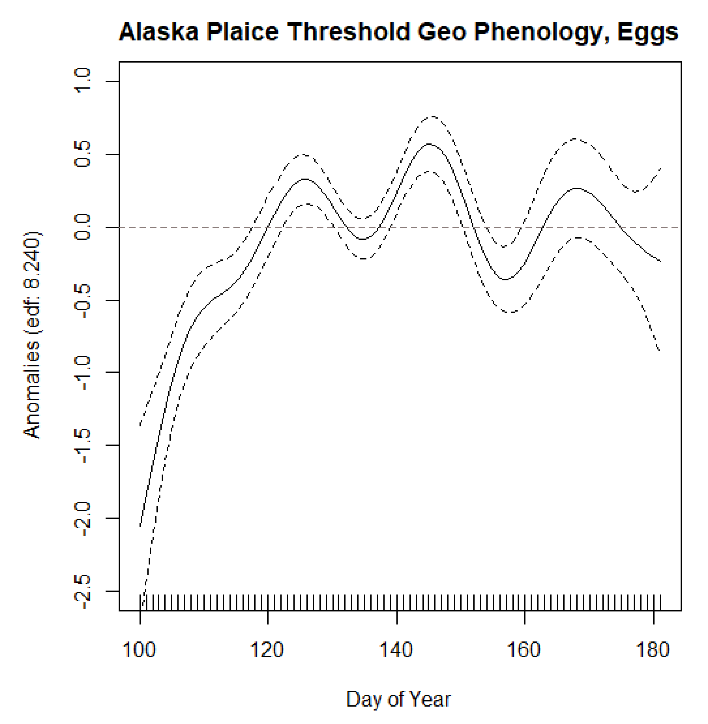
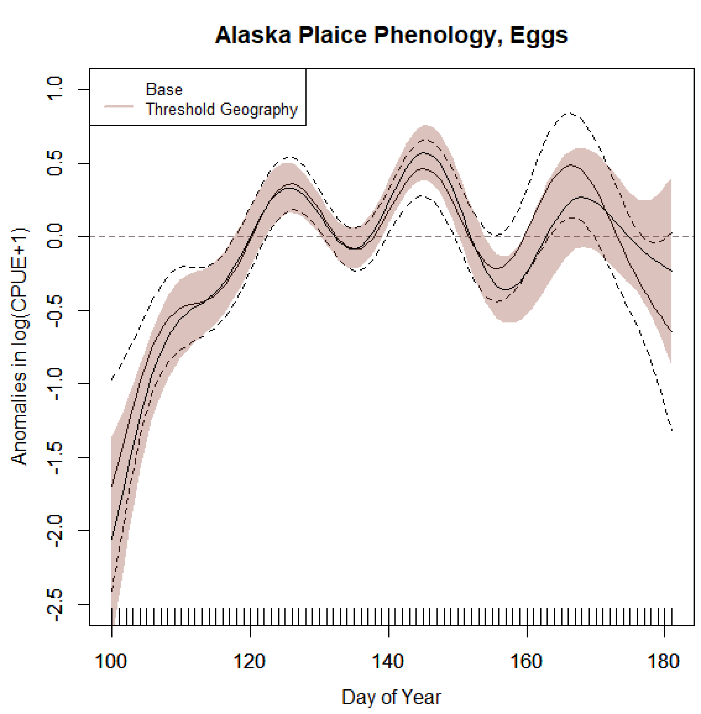




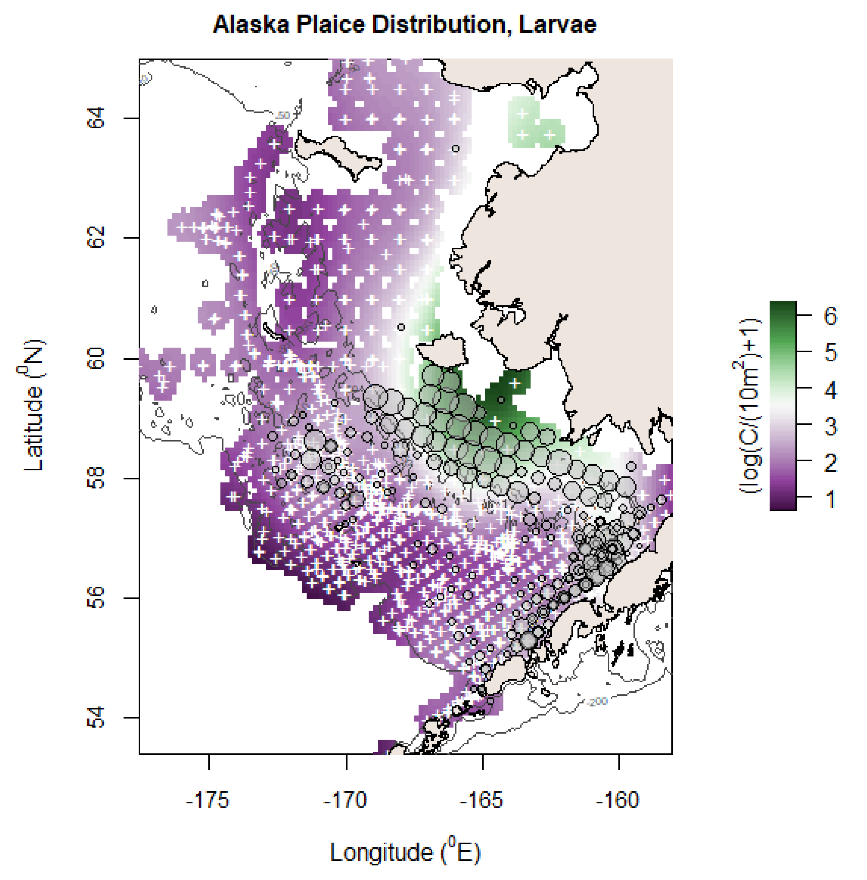
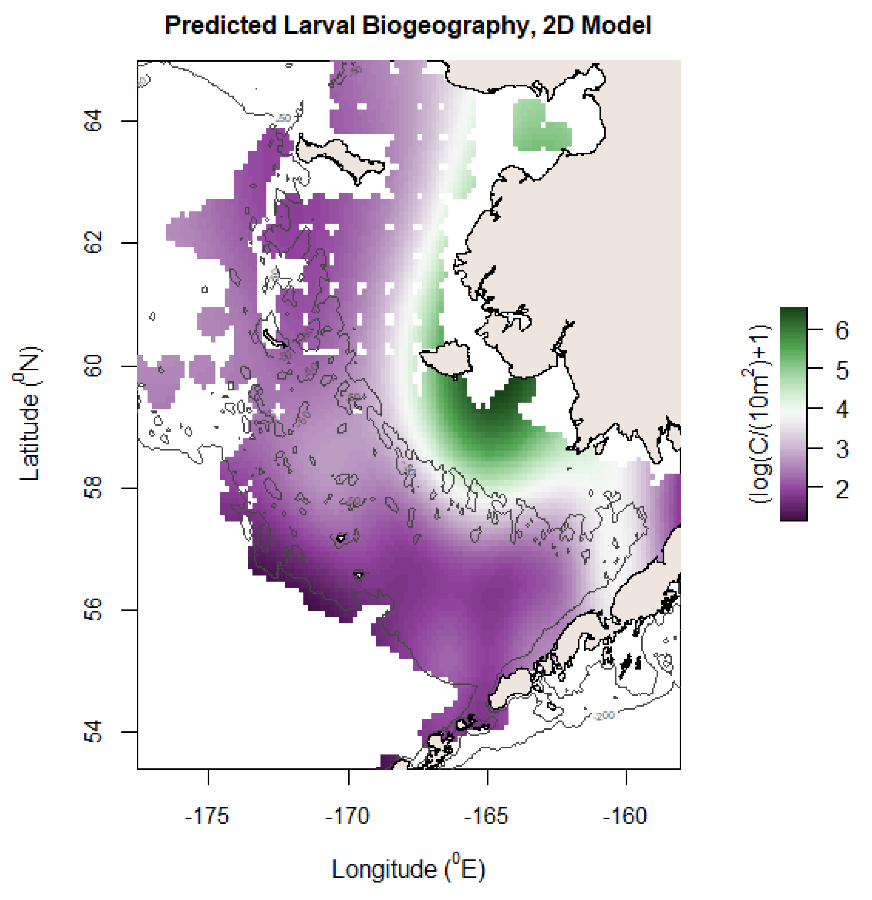
Deviance Explained: 61.1%



MSE reduction: 0.149, AIC reduction: 463.75, Deviance explained: 75%

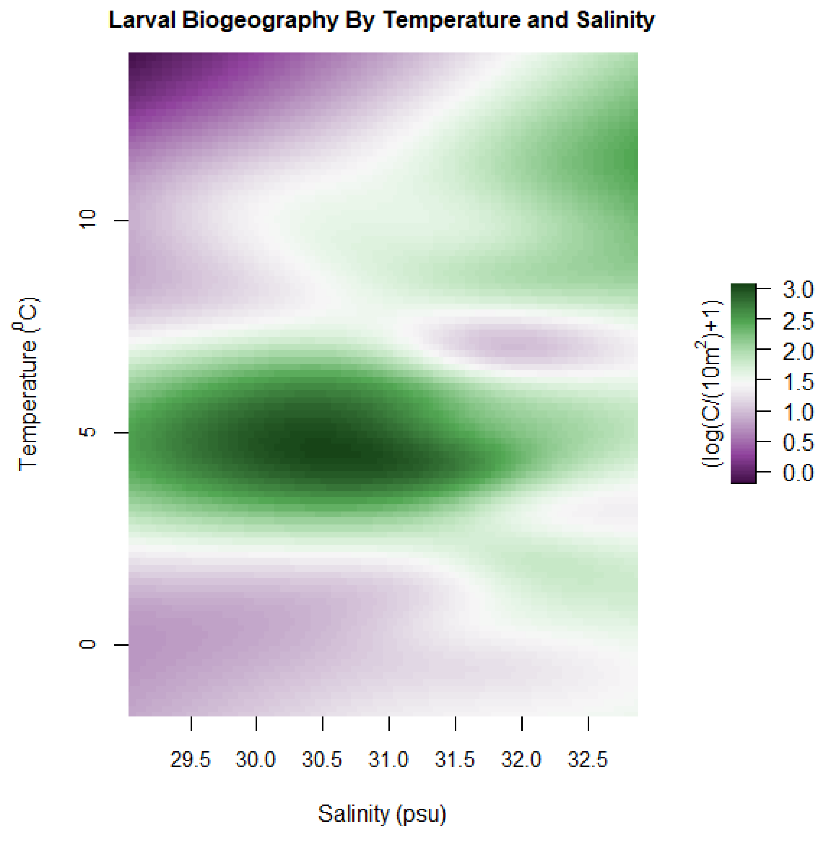
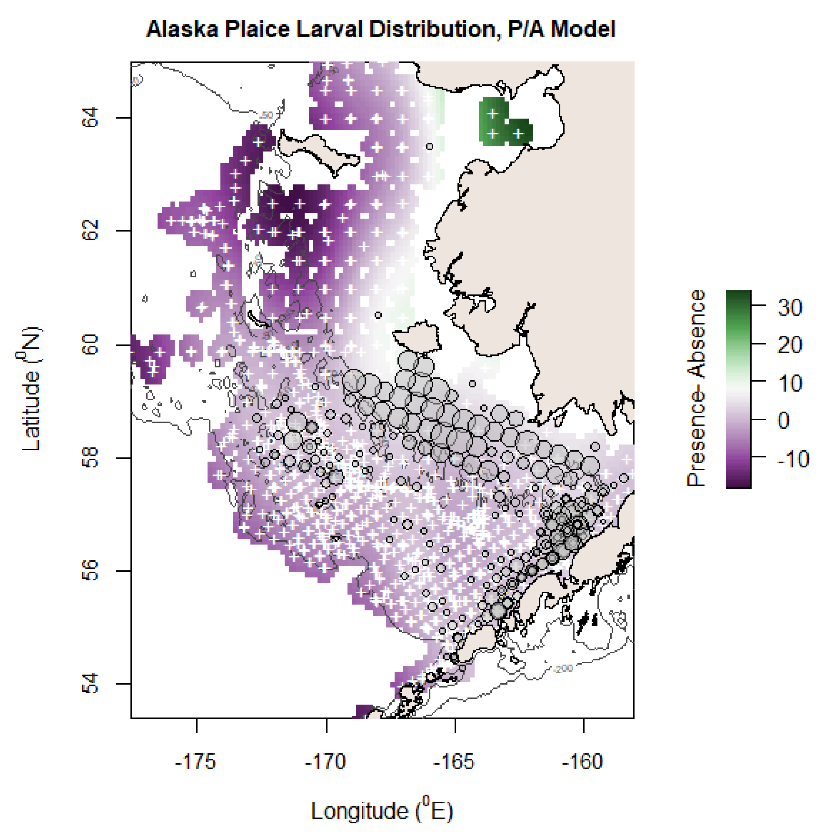


Deviance explained: 69.6%



MSE reduction: 0.151, AIC reduction: 463.75, Deviance explained: 82.9%

Deviance Explained: 79.2%



Additive temp model: Deviance explained 61.9%. Very close tie with 2D model (dev exp of 61.8%, same AIC)

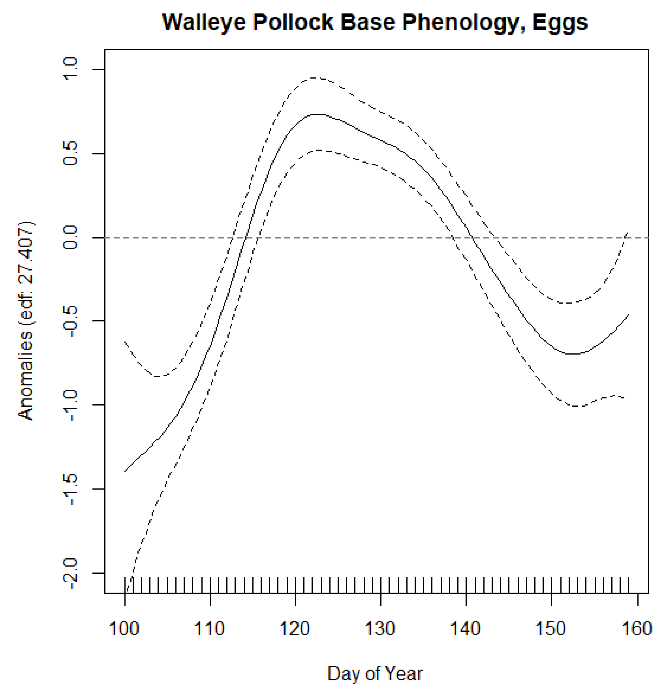
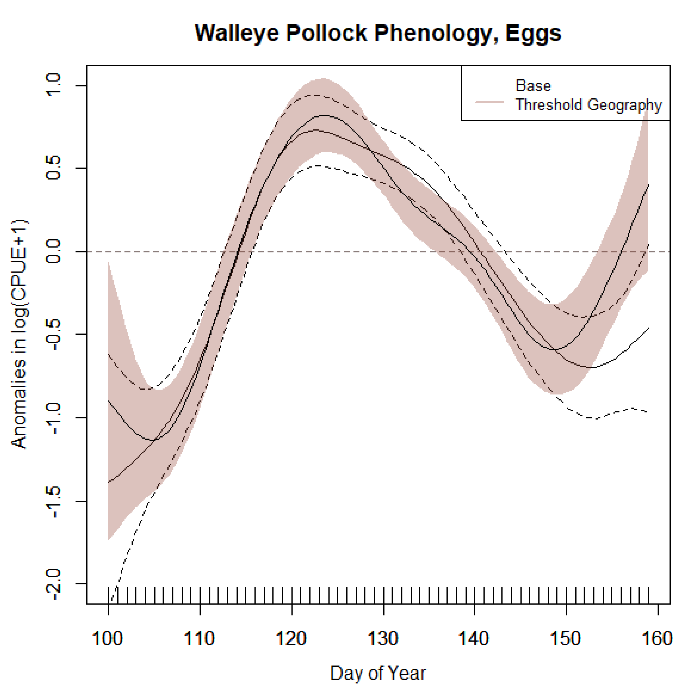
Map

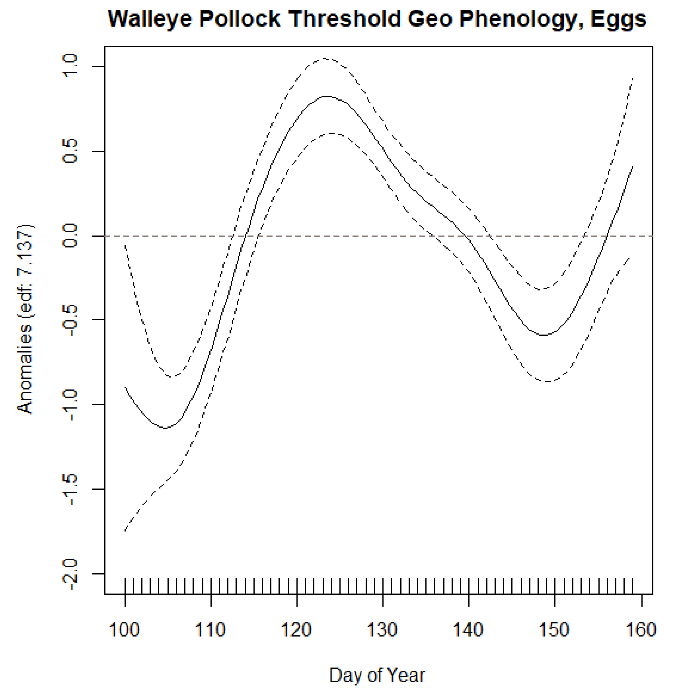
Description automatically generatedChart, scatter chart

Description automatically generated

MSE reduction: 0.133, AIC reduction: 591.2, Deviance explained: 58.1%

Deviance explained: 50.1%



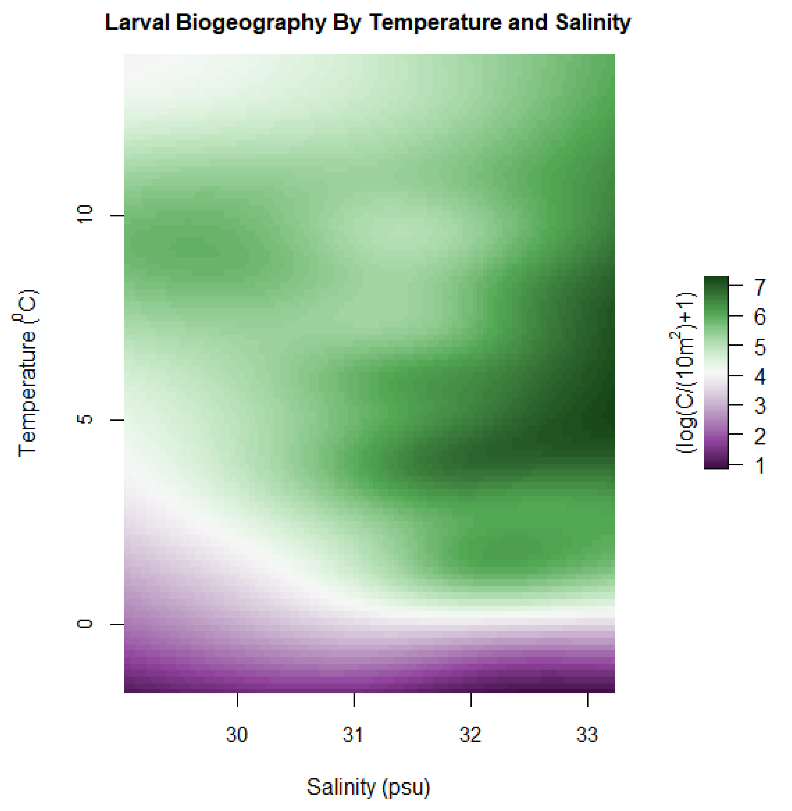
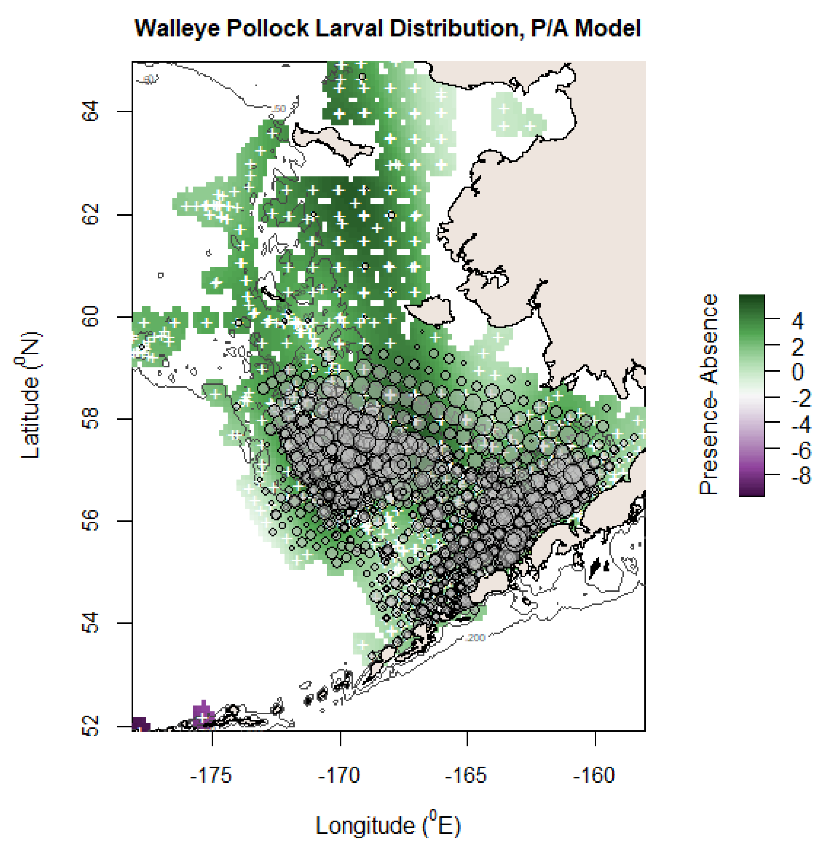


Map

Description automatically generatedChart, scatter chart

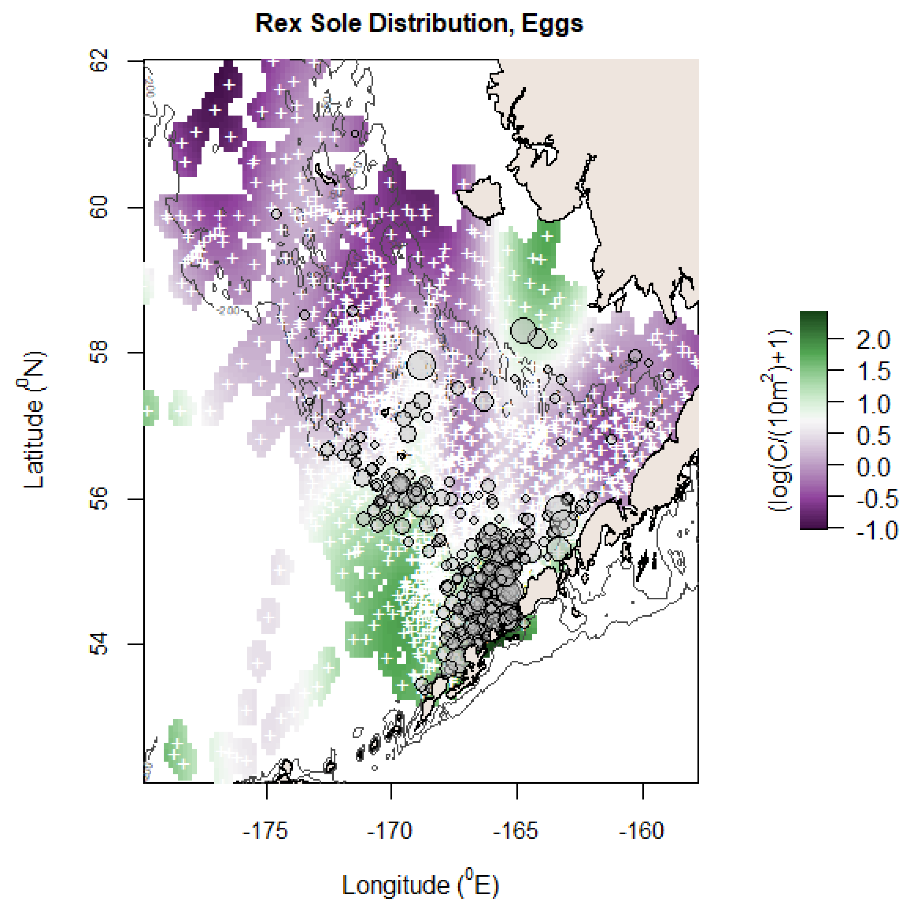
Description automatically generated

MSE reduction: 0.144, AIC reduction: 578.1, Deviance explained: 71.9%



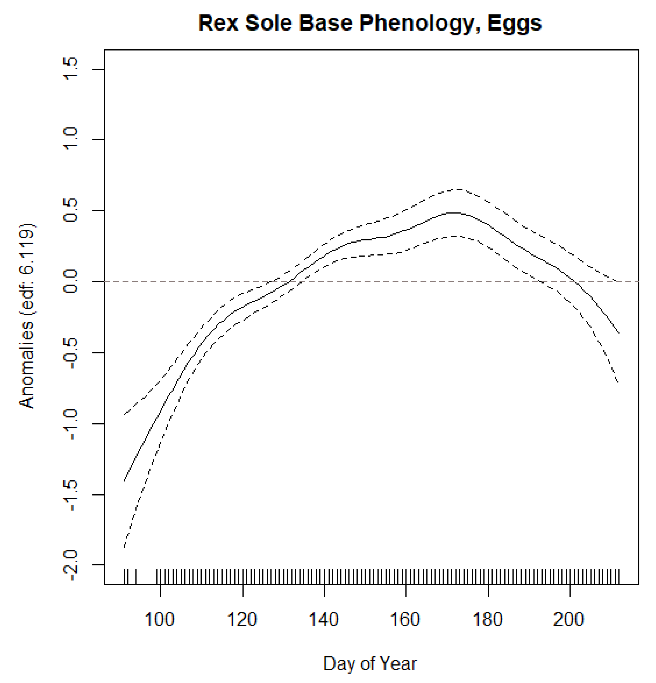
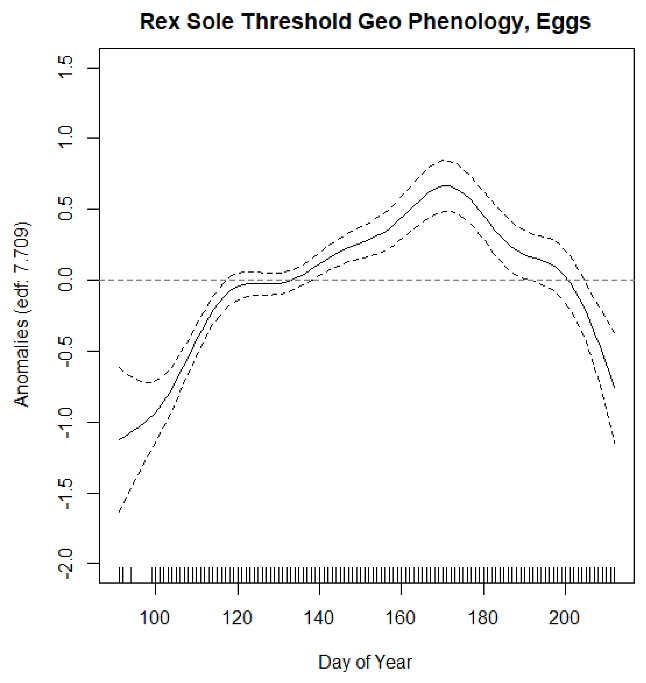
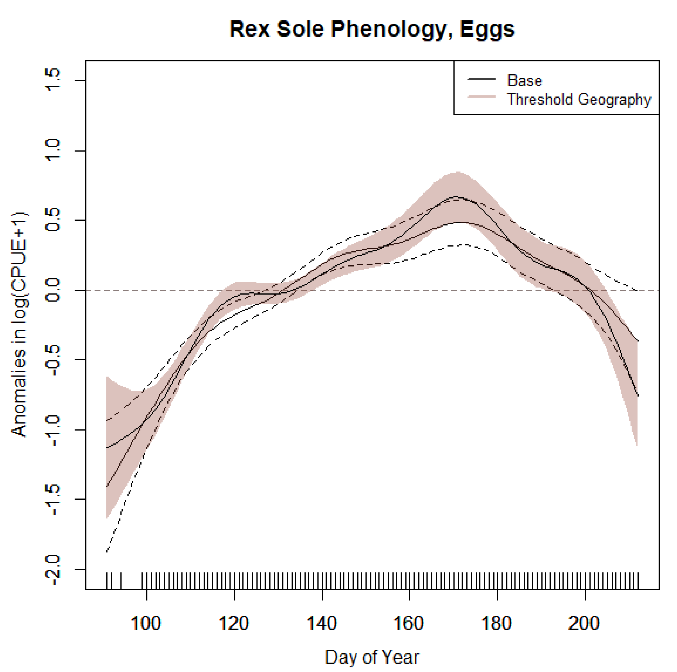
Deviance explained: 66%

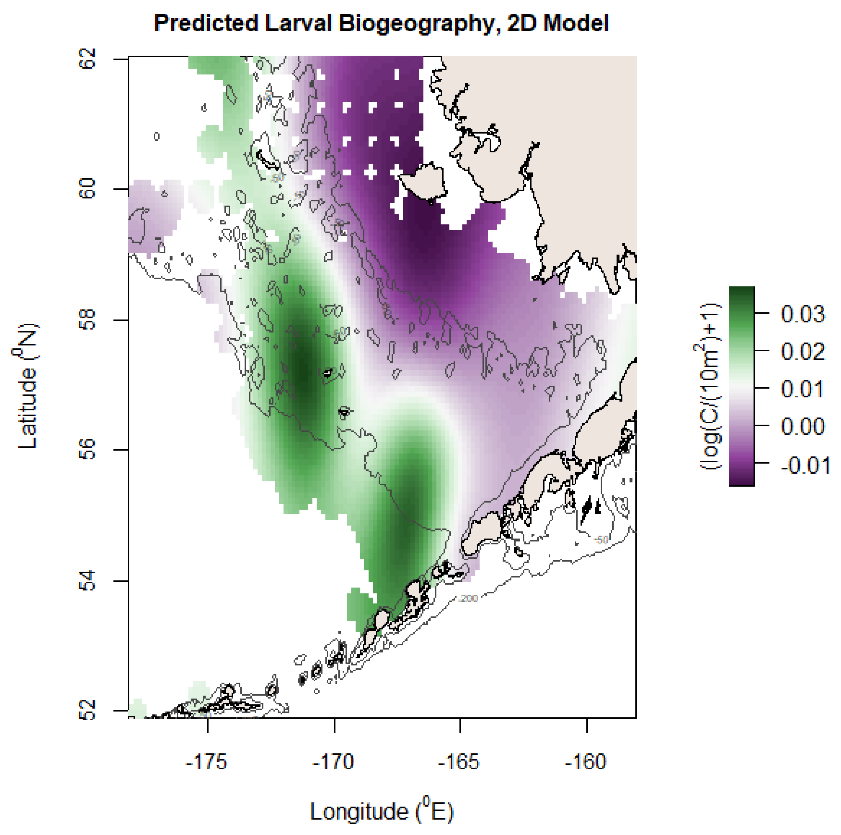
Deviance explained: 60.7%



MSE reduction: 0.171, AIC reduction: 708.68, Deviance explained: 61.3%

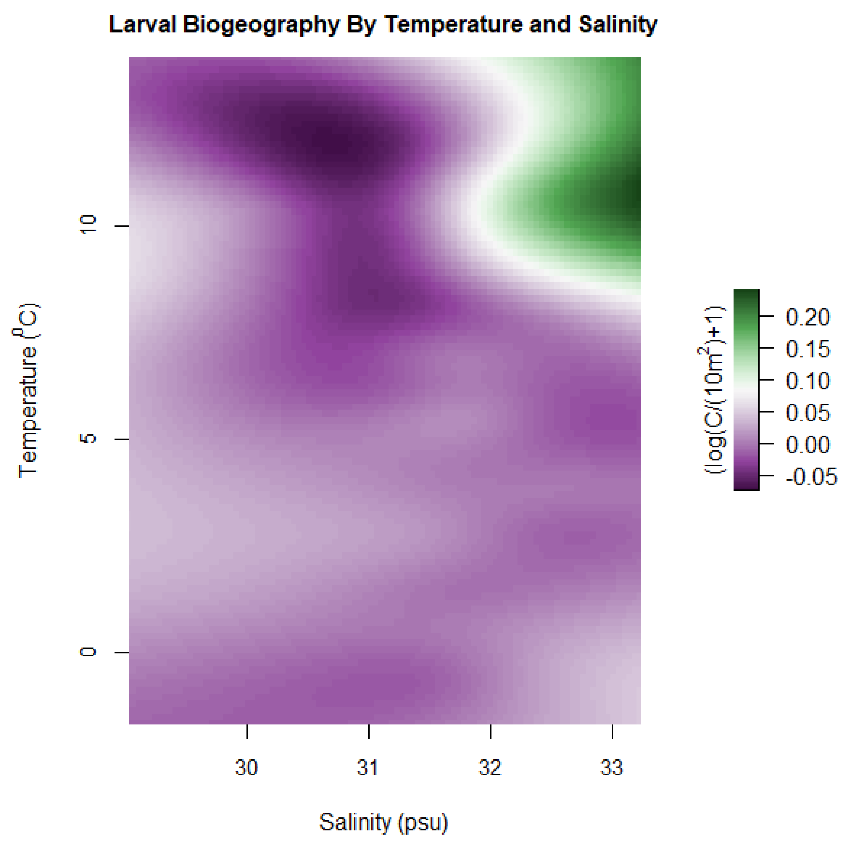
1 Deviance explained: 51.9%



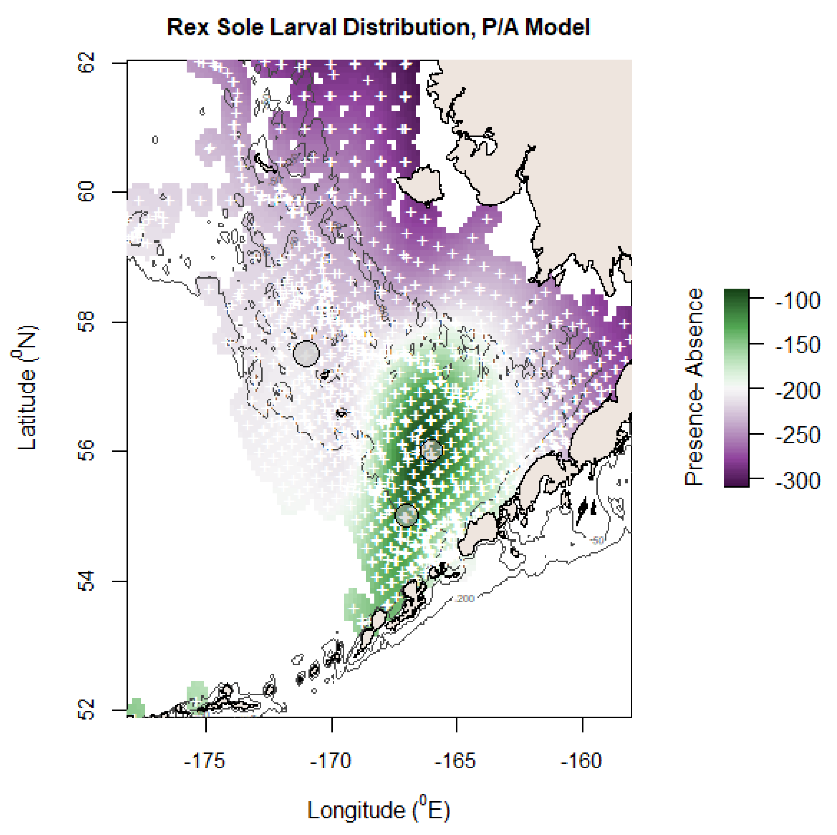
Chart, scatter chart

Description automatically generated

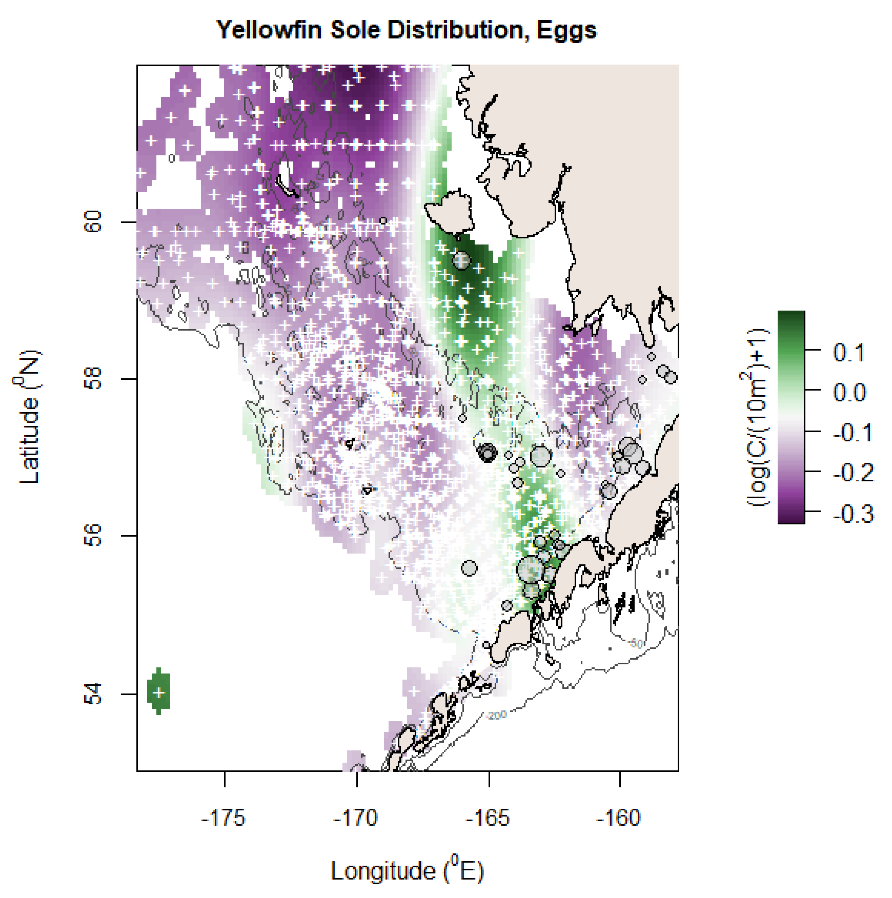
MSE reduction: 0.052, AIC reduction 113.18, Deviance explained: 17.3%

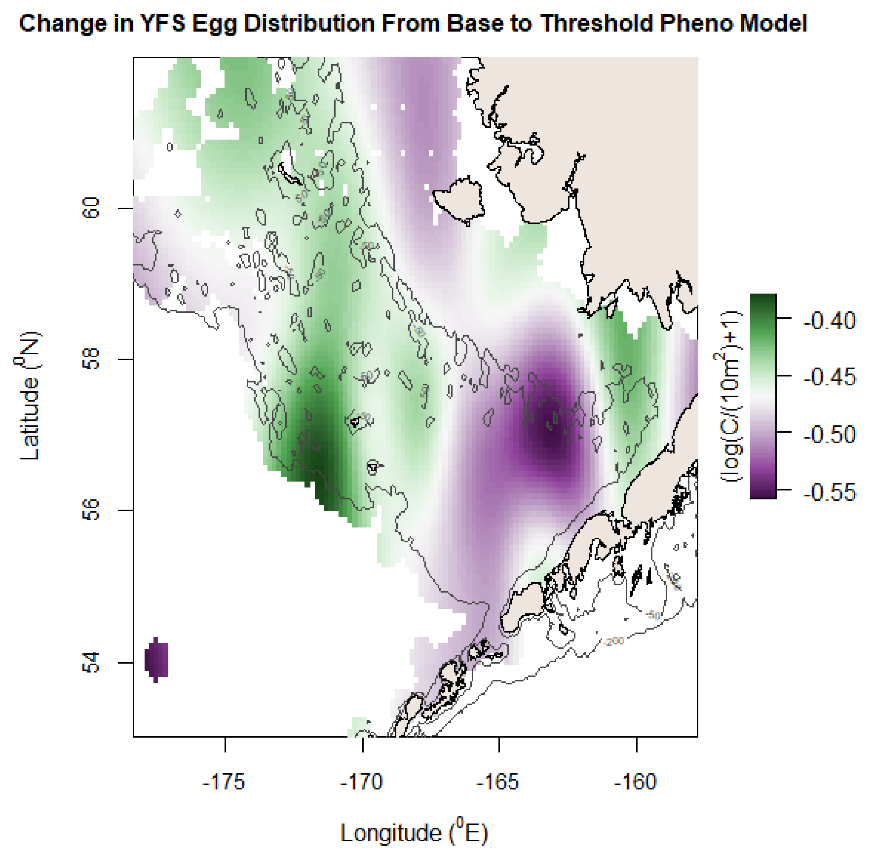


Deviance explained: 12.1%



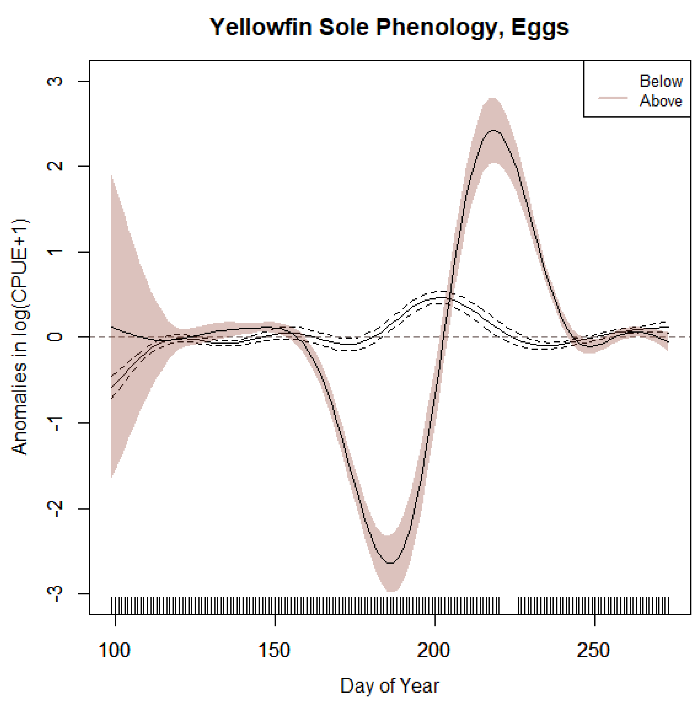
Deviance explained: 100% \*obviously fishy....

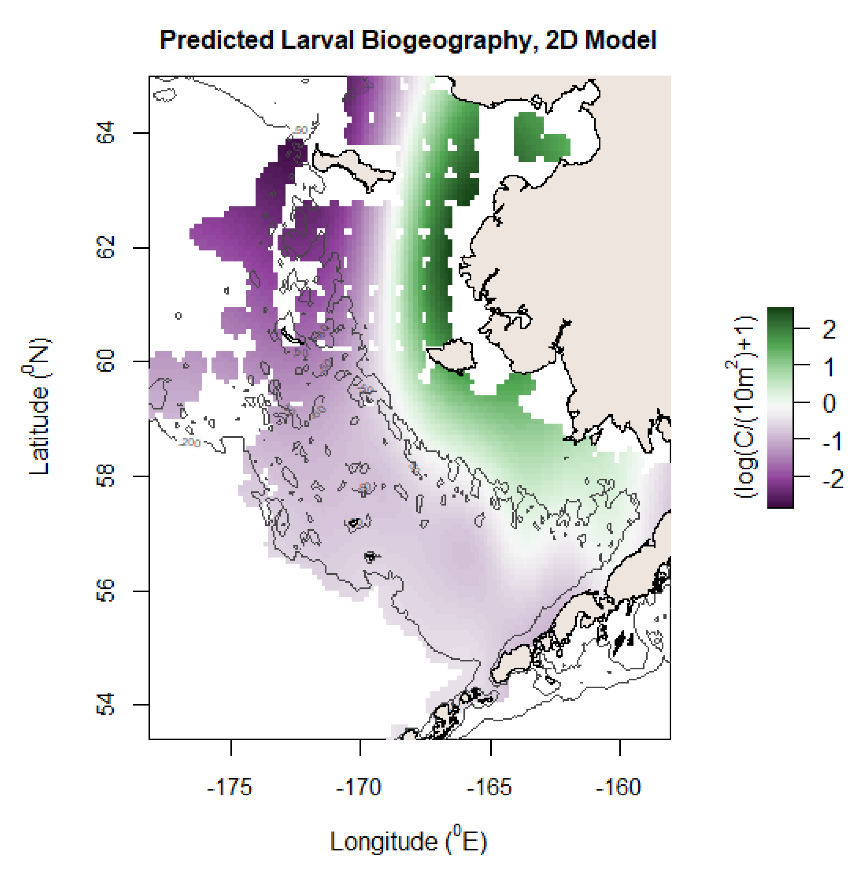




MSE reduction: 0.194, AIC reduction: 569.00, Deviance explained: 83.8%

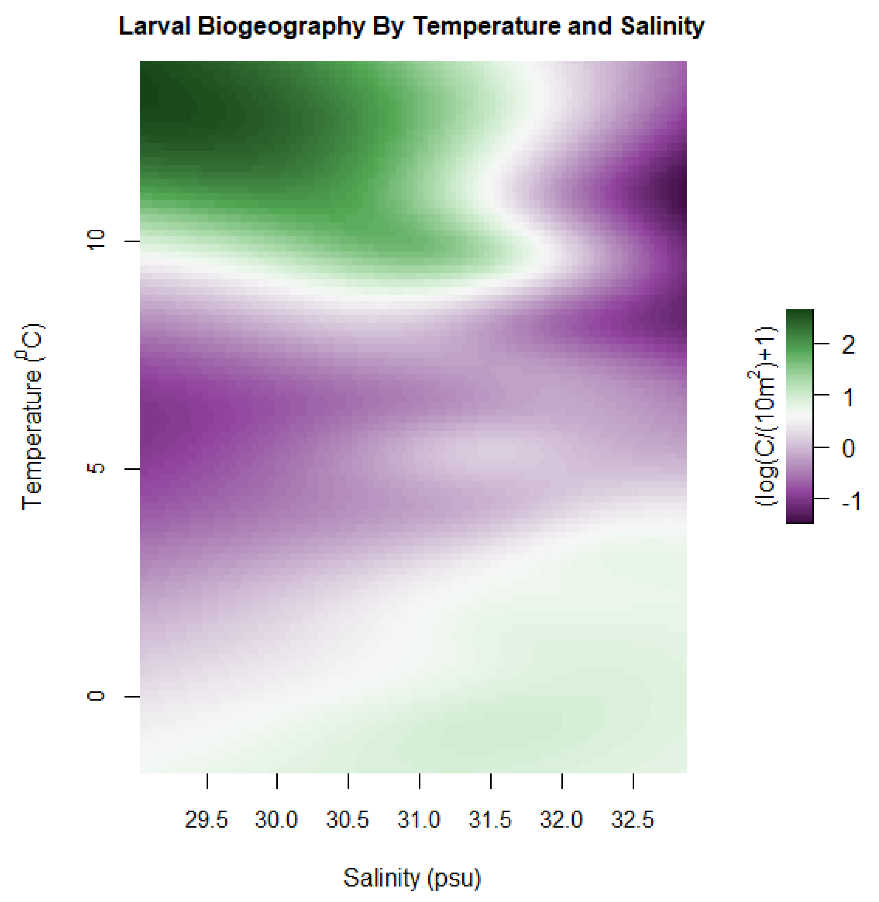
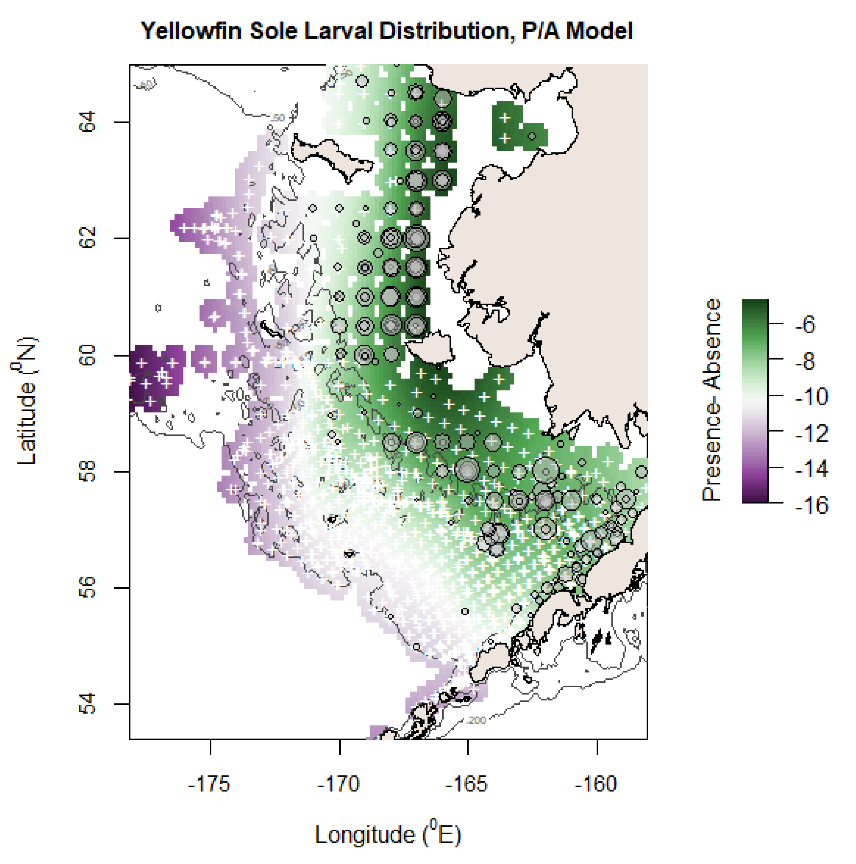
Deviance explained: 64.6%





MSE reduction: 0.194, AIC reduction: 569.00, Deviance explained: 83.8%

Deviance explained: 79.2%

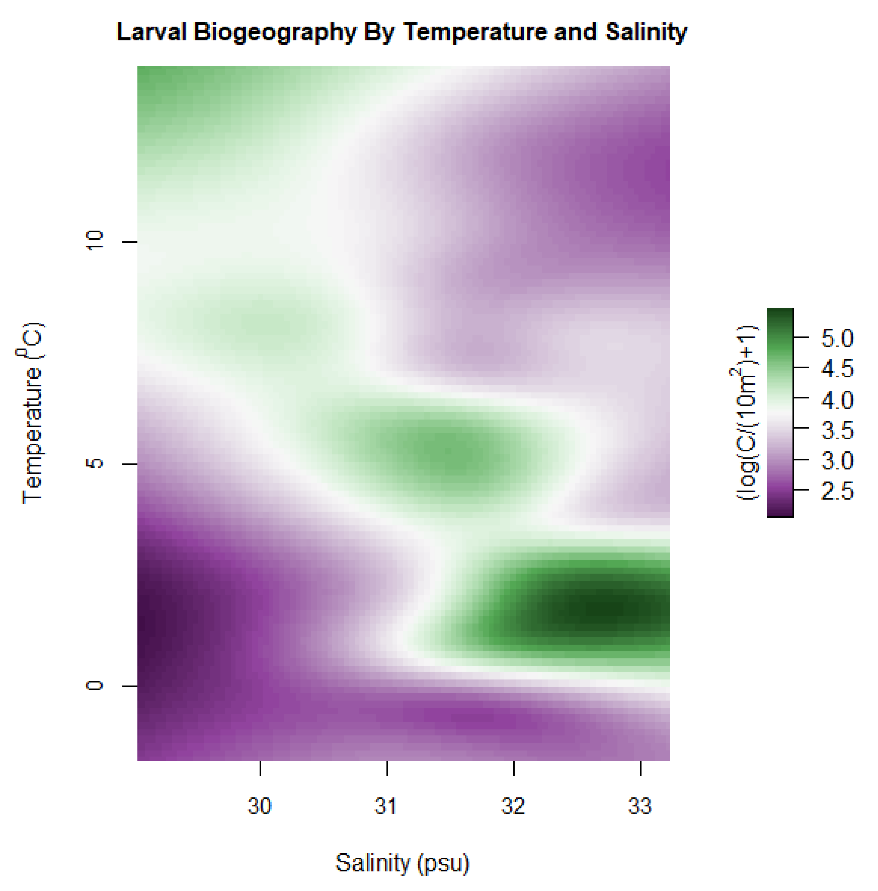


Deviance explained: 72%

Chart

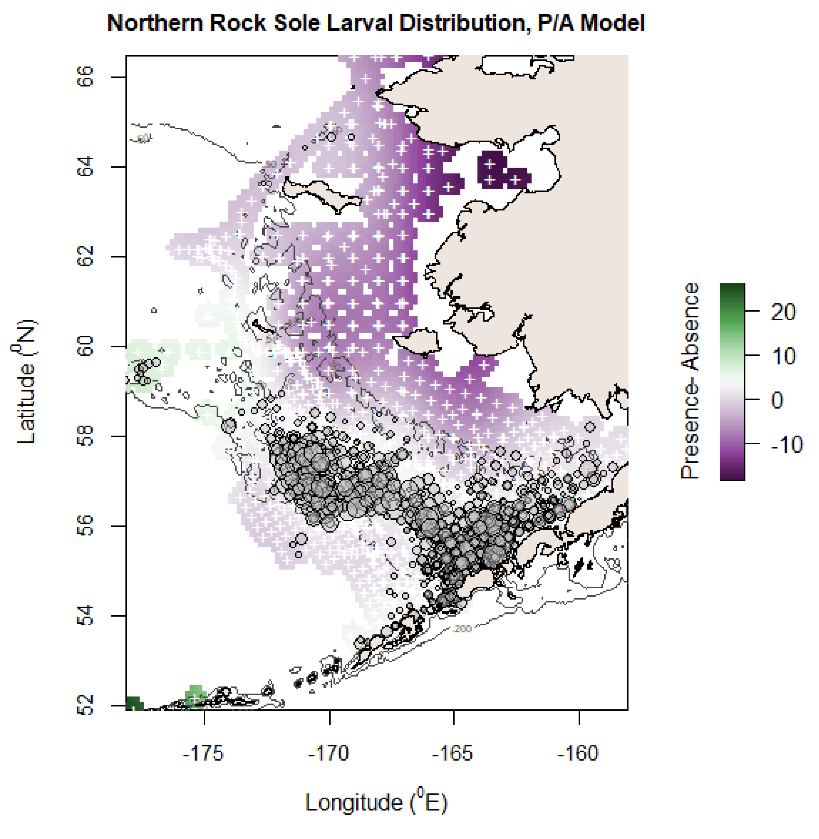
Description automatically generated with medium confidenceChart

Description automatically generated with medium confidence



MSE reduction: 0.102, AIC reduction: 371.4, Deviance explained: 69.5%

Deviance explained: 65.2%

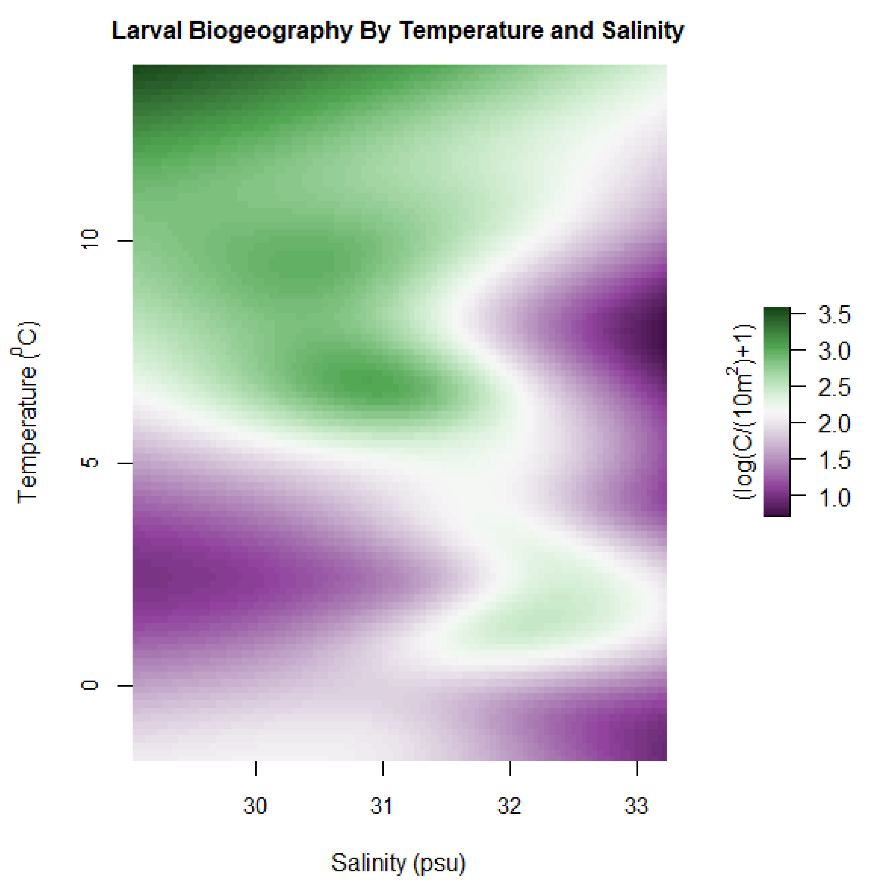


Deviance explained: 52.2%

Chart, scatter chart

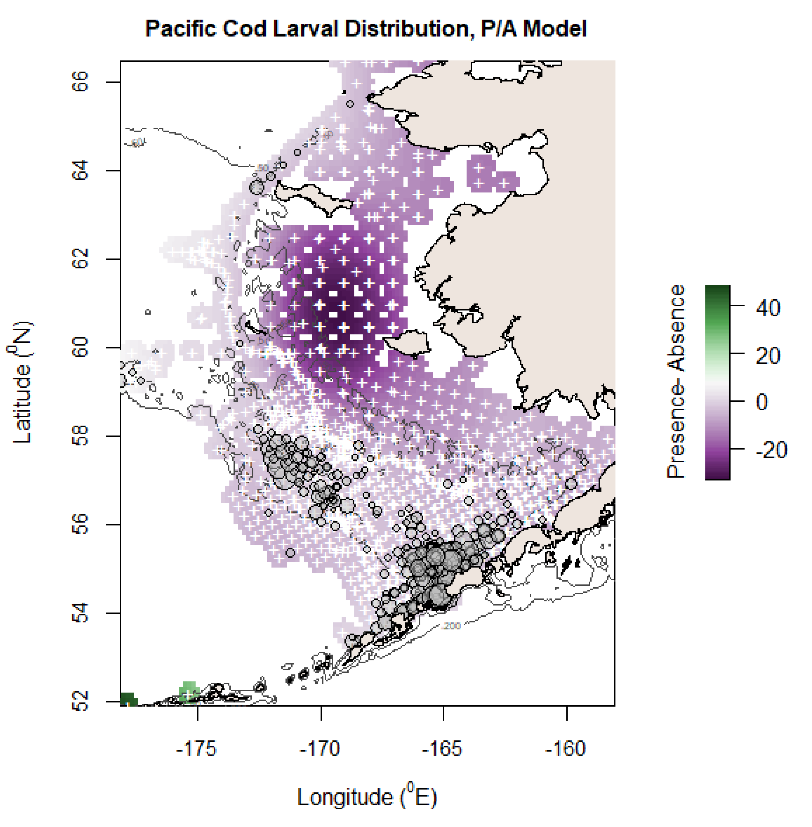
Description automatically generatedChart, scatter chart

Description automatically generated



MSE reduction: 0.071, AIC reduction: 225.6, Deviance explained: 71.7%

Deviance explained: 69%



Deviance explained 52.6%

