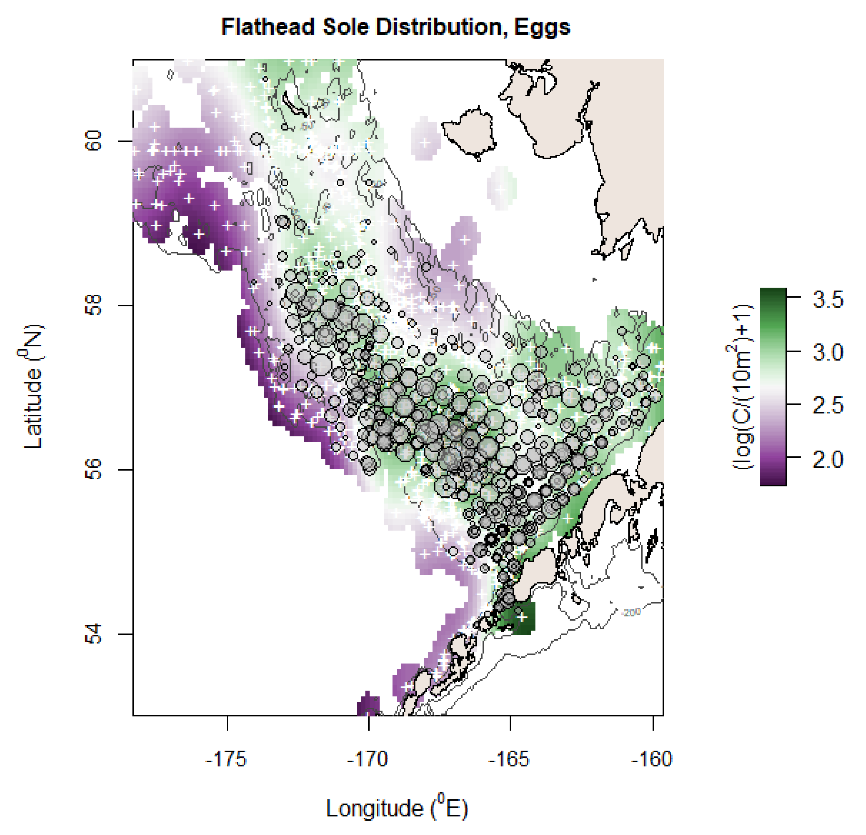
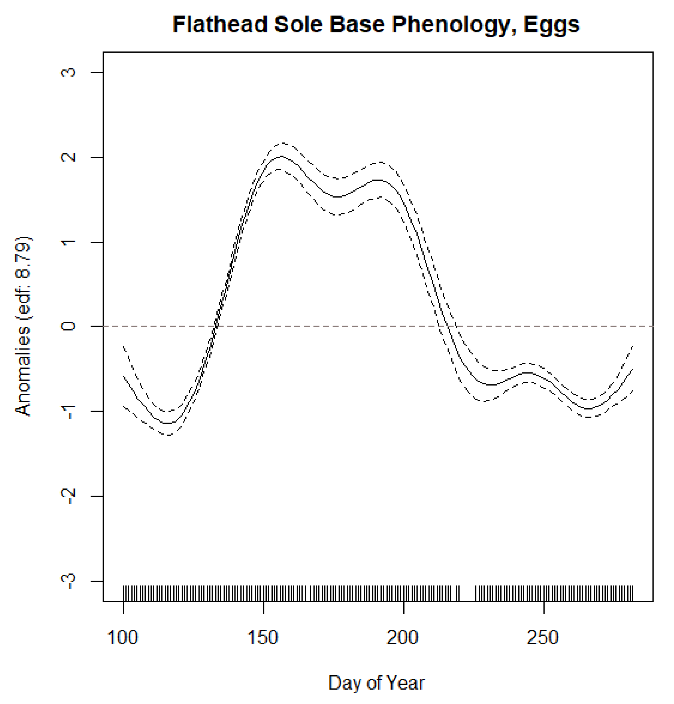
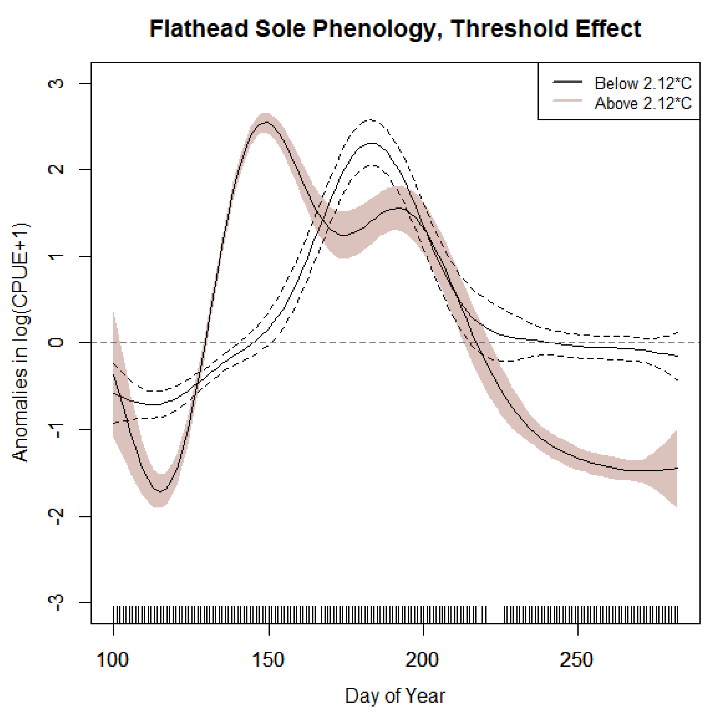
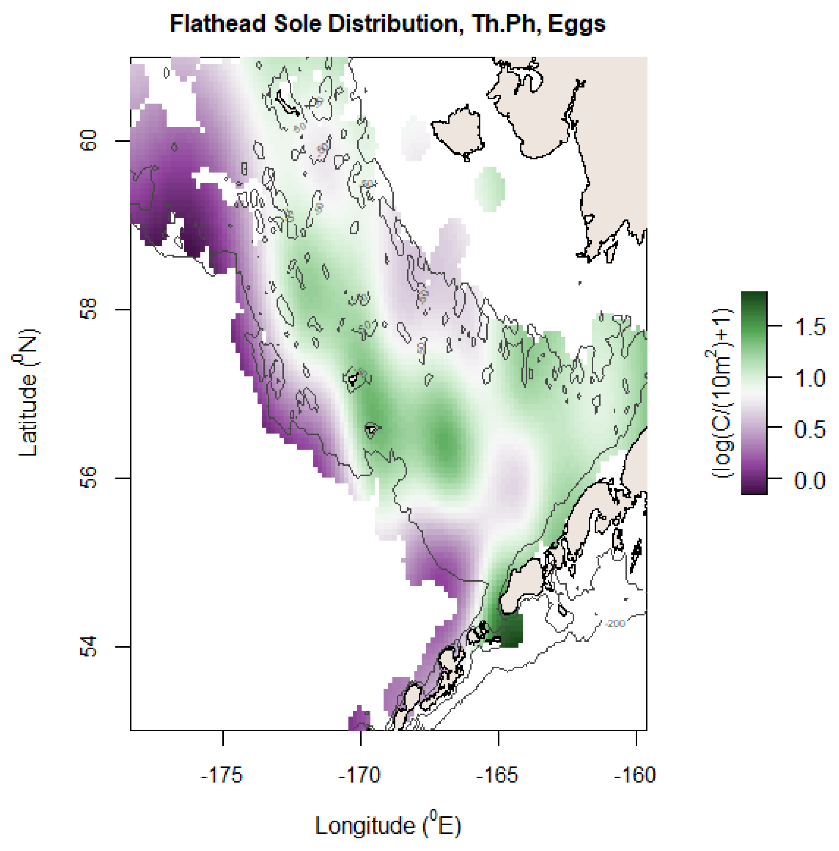
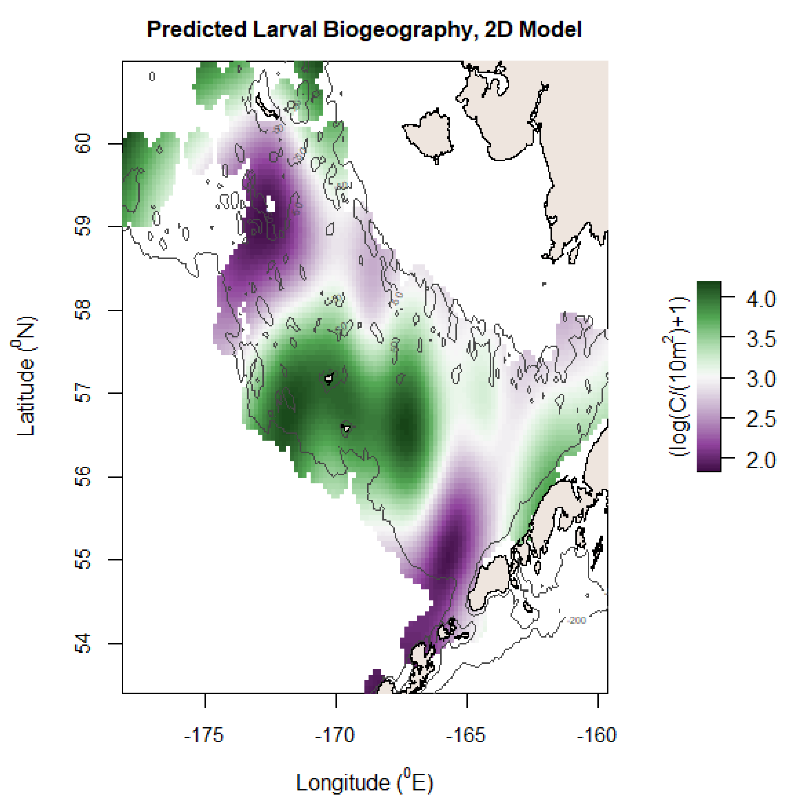
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Species | Life Stage | Best Model | ΔMSE | ΔAIC | Deviance Explained |
| Alaska Plaice | Egg |  | 0.149 | 463.75 | 75% |
| Larvae |  | 0.151 | 403.40 | 82.9% |
| Rex Sole | Egg |  | 0.171 | 708.68 | 61.3% |
| Walleye Pollock | Egg | (Log(Catch per 10m2)+1) = *factor*(year) + *s*(doy) + *s*(bottom depth, k=5) + *g*(longitude, latitude, by = threshold regional SST) + *e*doy,year,(lon,lat) | 0.147 | 620.57 | 59.2% |
| Larvae |  | 0.136 | 531.51 | 71.4% |
| Yellowfin Sole | 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) | 0.179 | 901.13 | 76.2% |
| Larvae |  | 0.149 | 381.28 | 70.9% |
| Pacific Cod | Larvae |  | 0.071 | 225.6 | 71.7% |
| Northern Rock Sole | Larvae |  | 0.118 | 344.99 | 69.9% |

\*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.



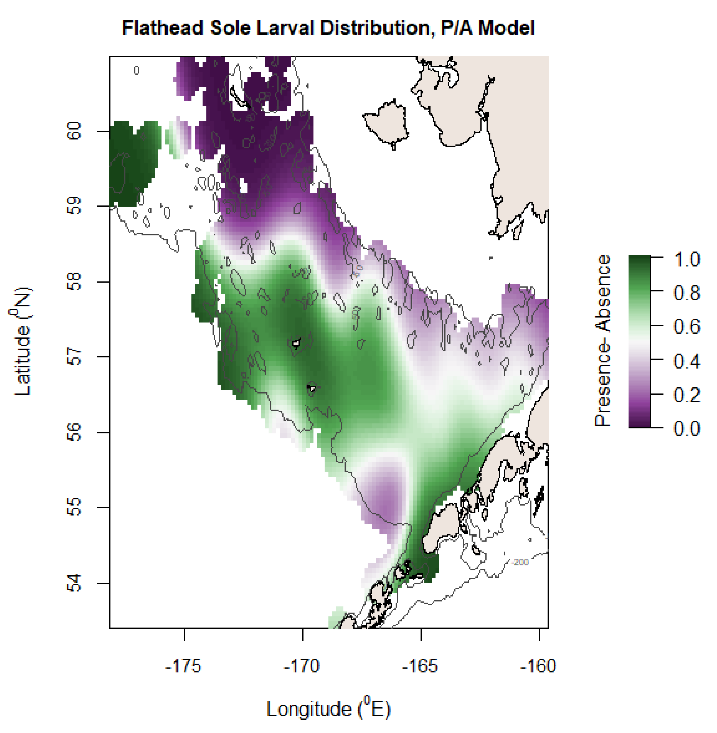
MSE reduction: 0.179, AIC reduction: 901.13, Deviance Explained: 76.2%

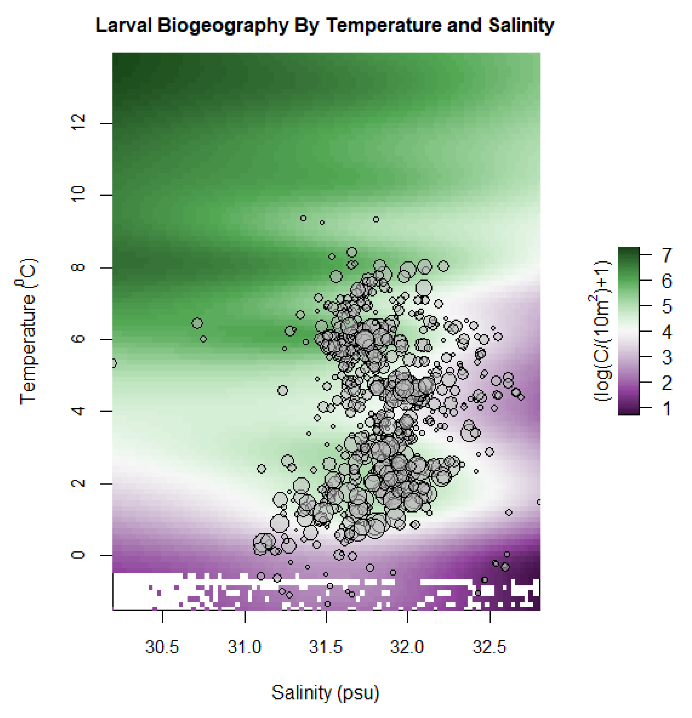
Deviance explained: 70.1%



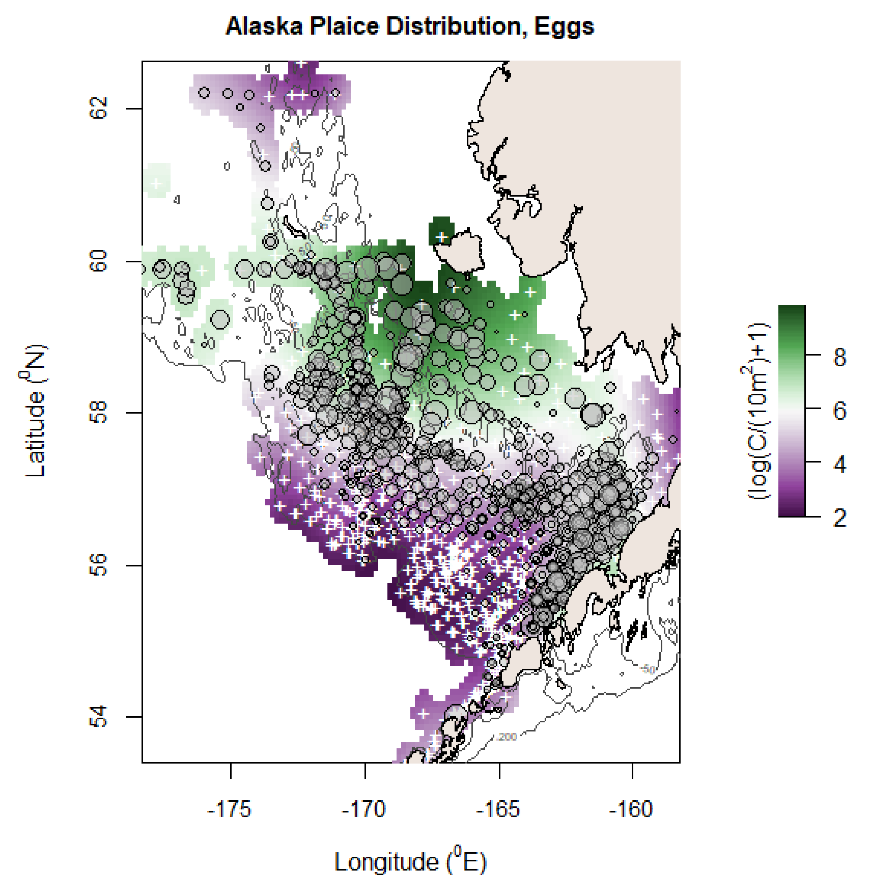
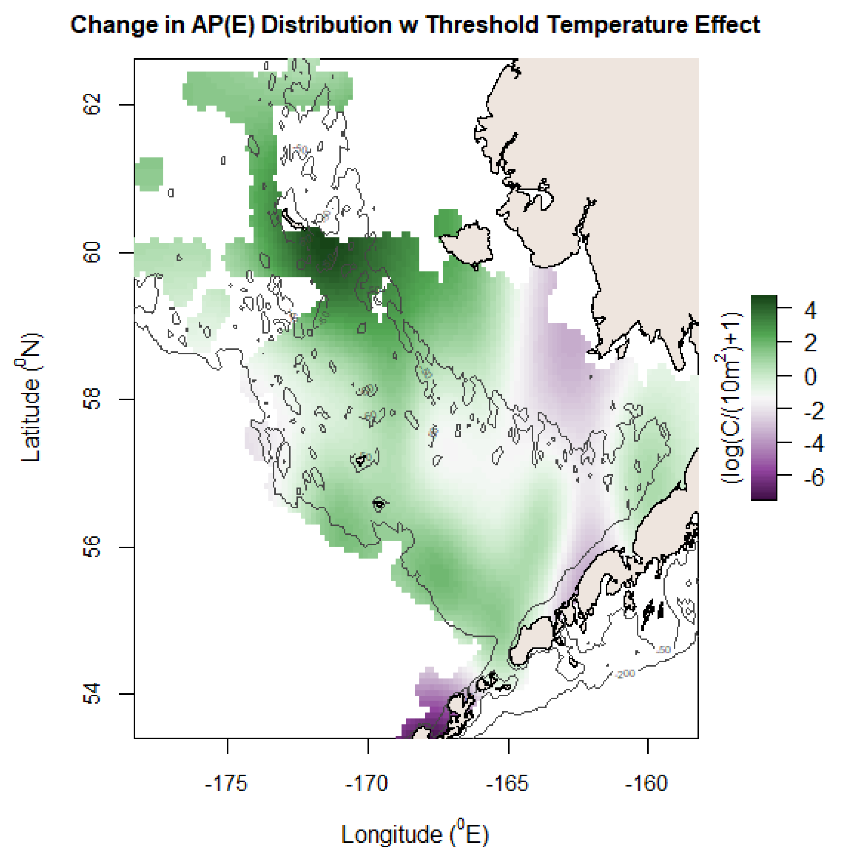
MSE reduction: 0.149, AIC reduction: 381.28, Deviance Explained: 70.3%

Deviance explained: 63.7%

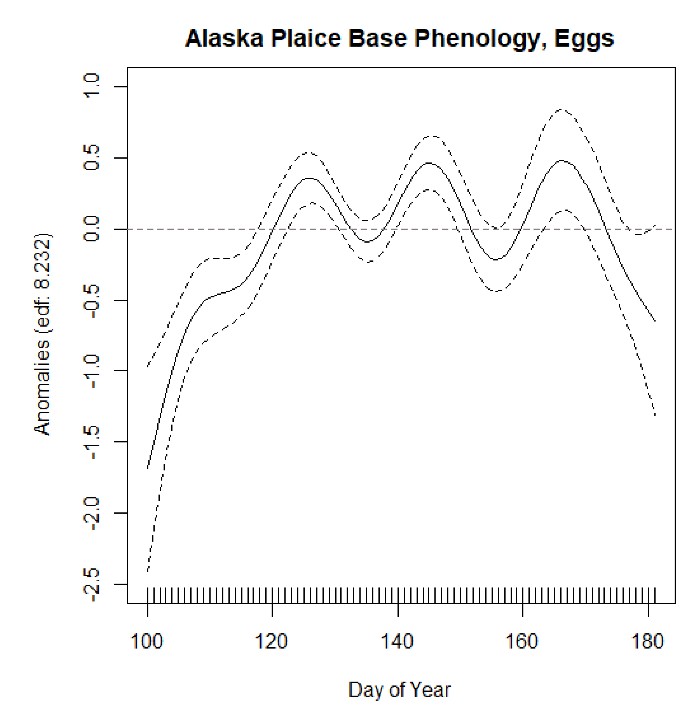
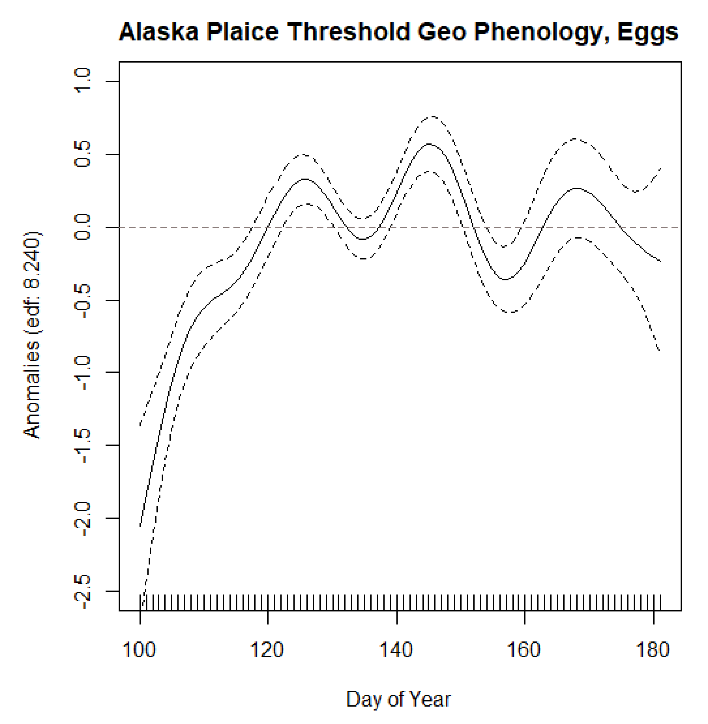
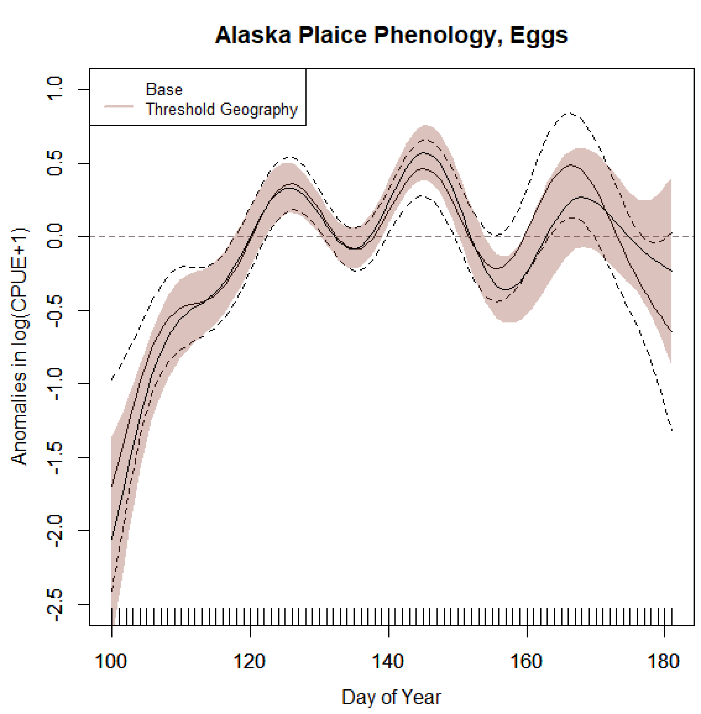




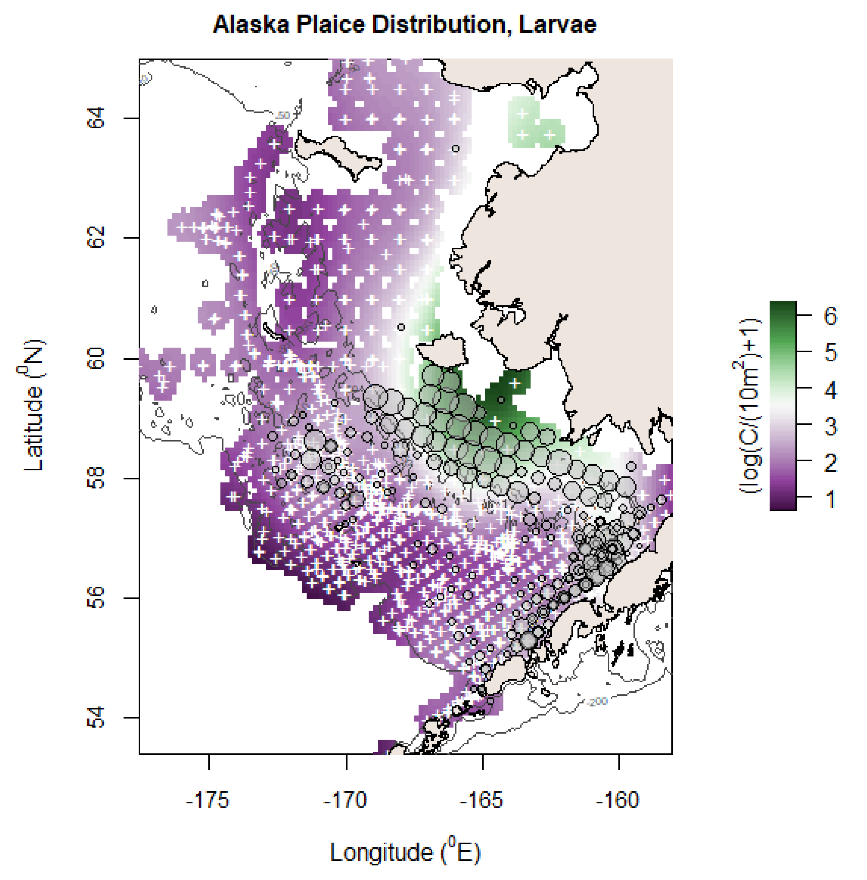
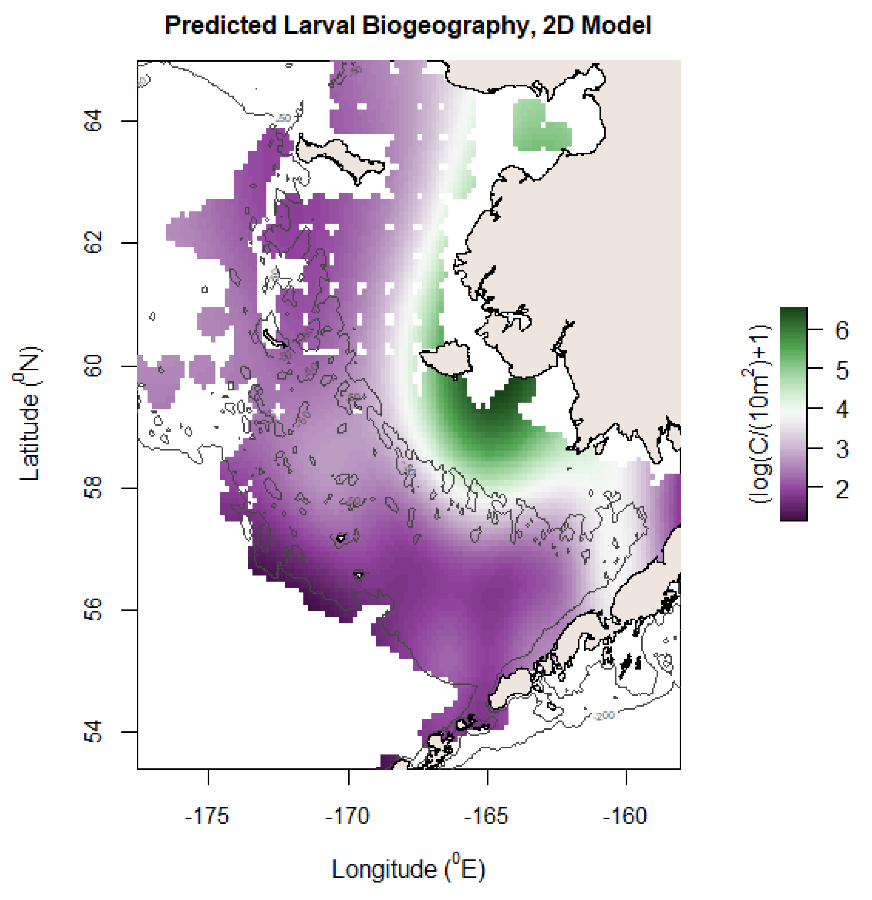
Deviance Explained: 58.6%



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

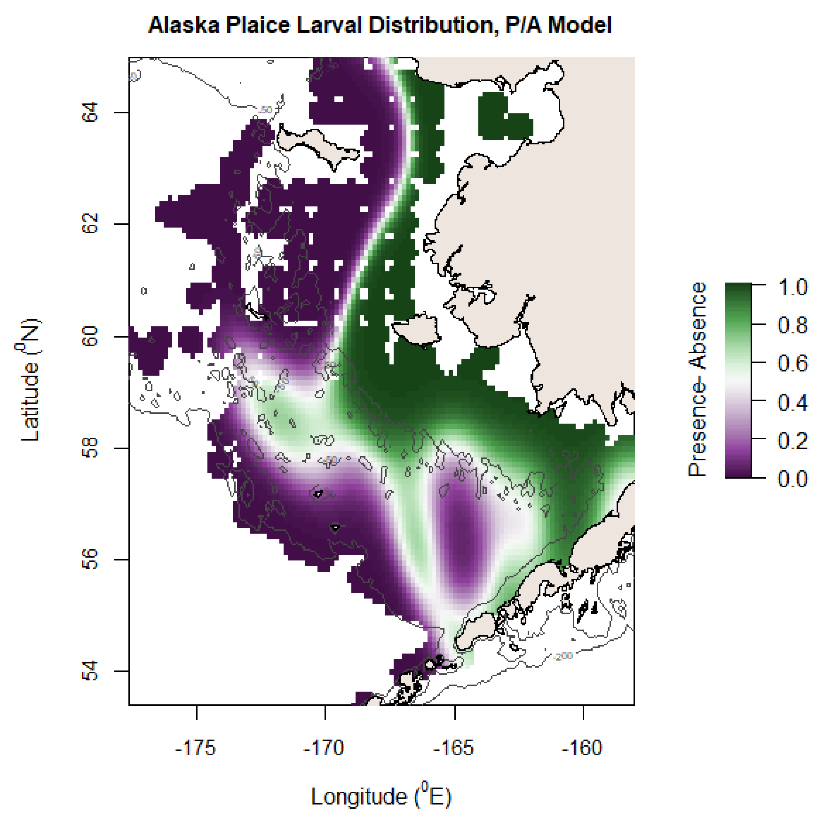
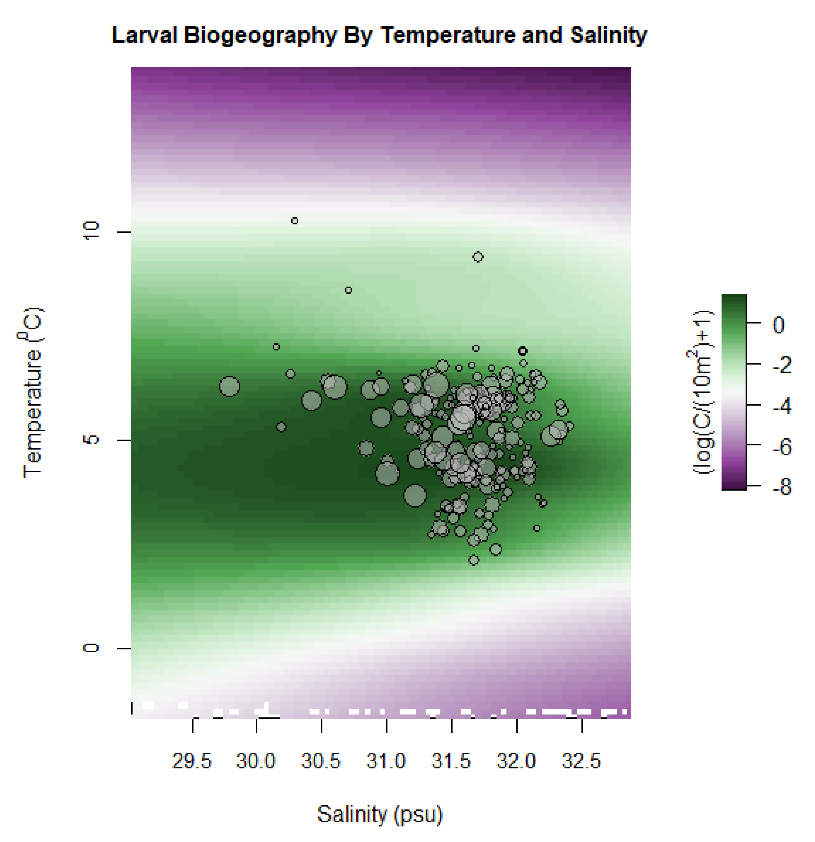


Deviance explained: 69.6%

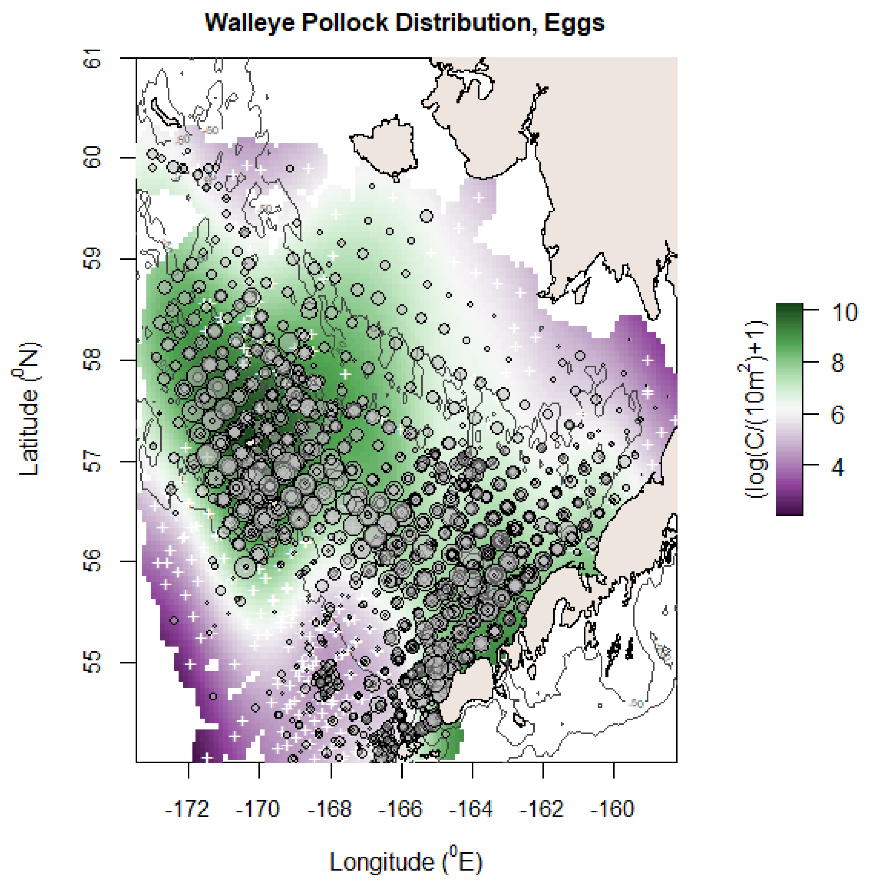
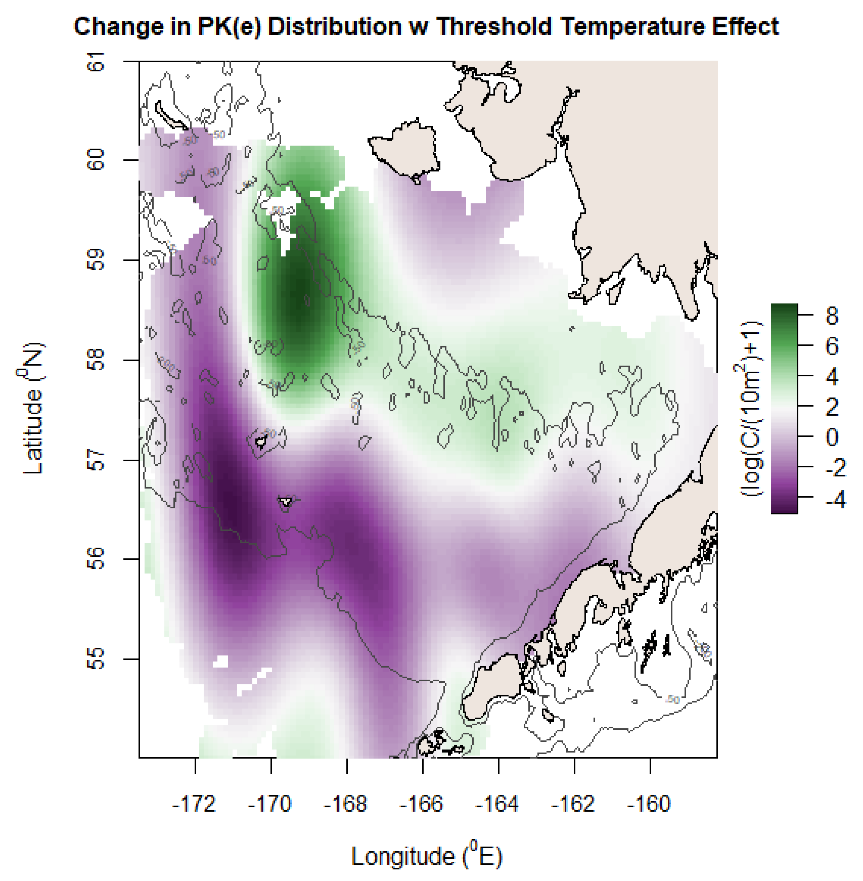


MSE reduction: 0.151, AIC reduction: 463.75, Deviance explained: 82.9%

Deviance Explained: 79.2%



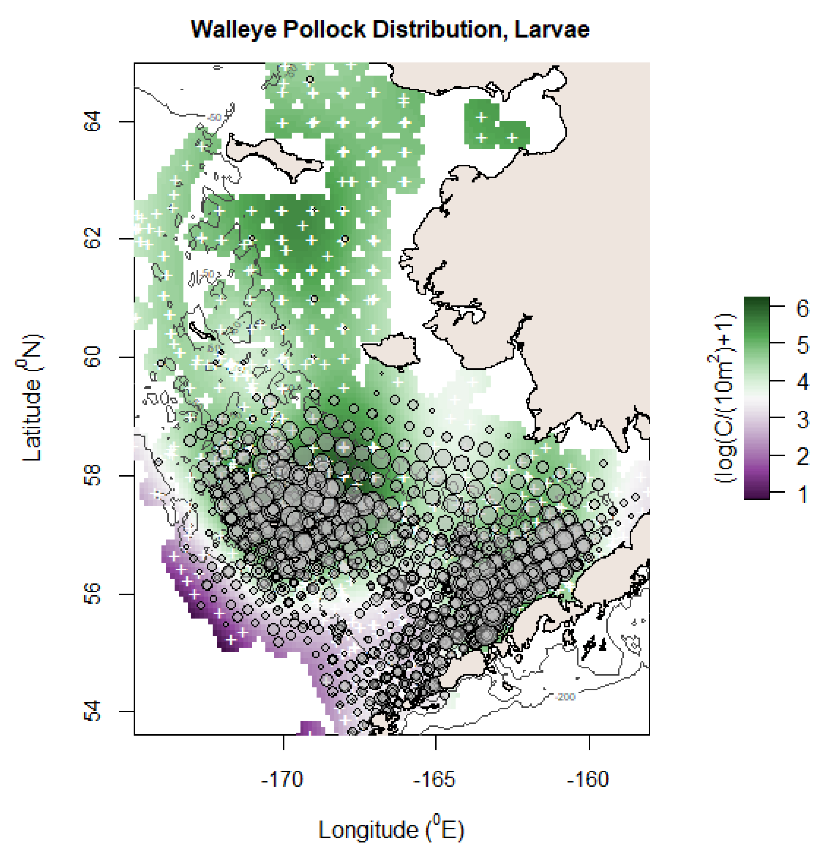
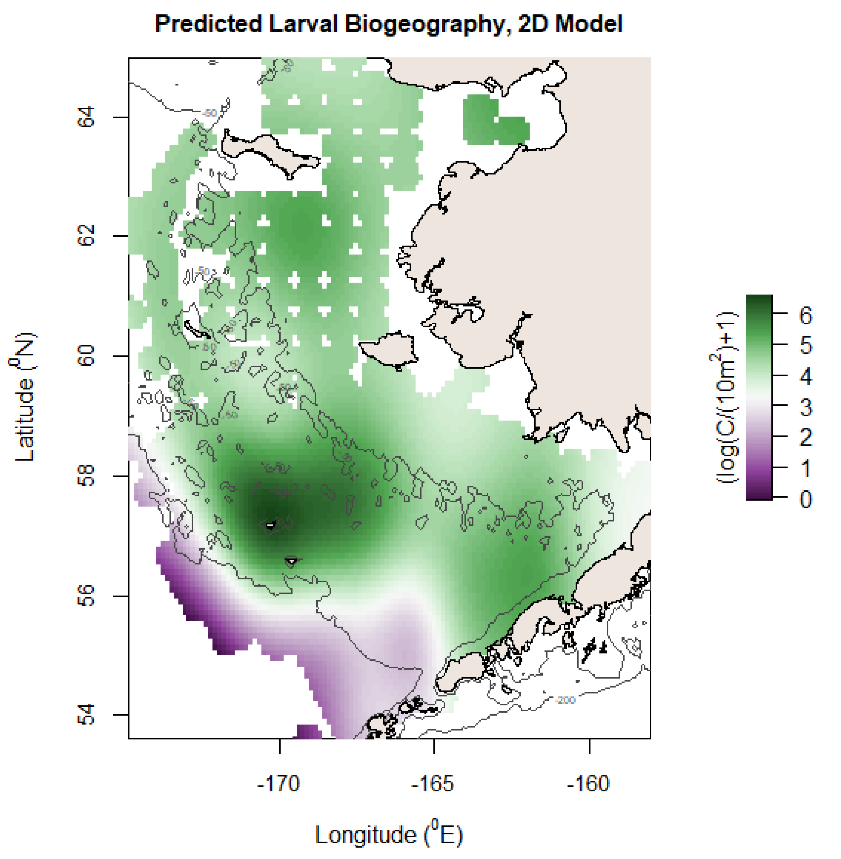
Additive temp model: Deviance explained 61.9%. Very close tie with 2D model (dev exp of 61.8%, AIC difference of 5.79)



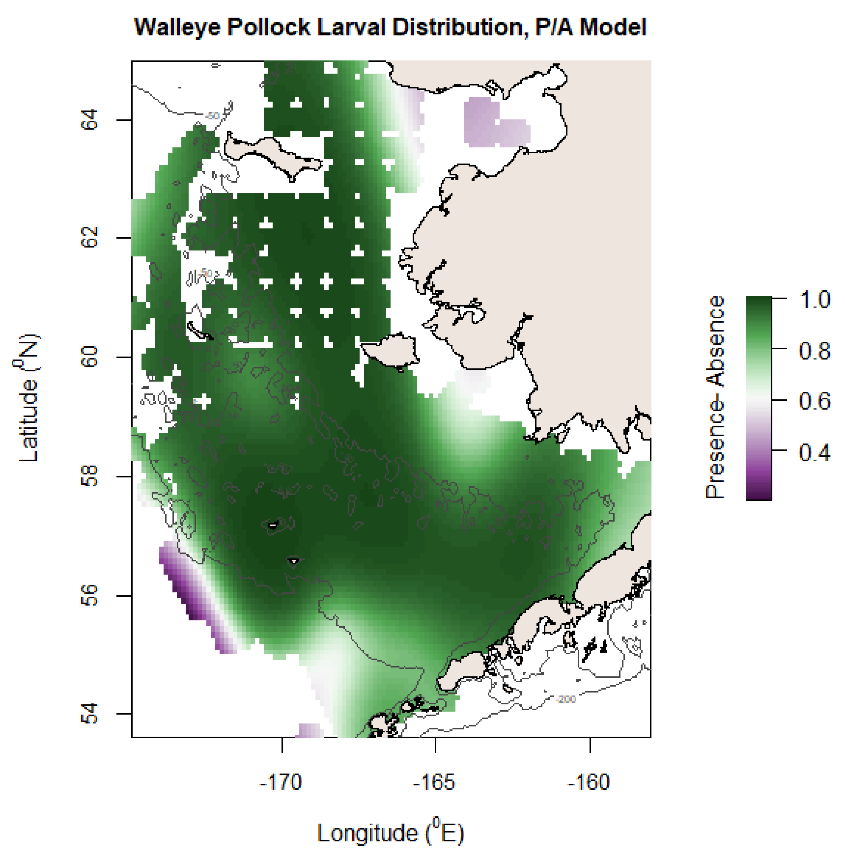
MSE reduction: 0.147, AIC reduction: 620.57, Deviance explained: 59.2%

Deviance explained: 50.4%

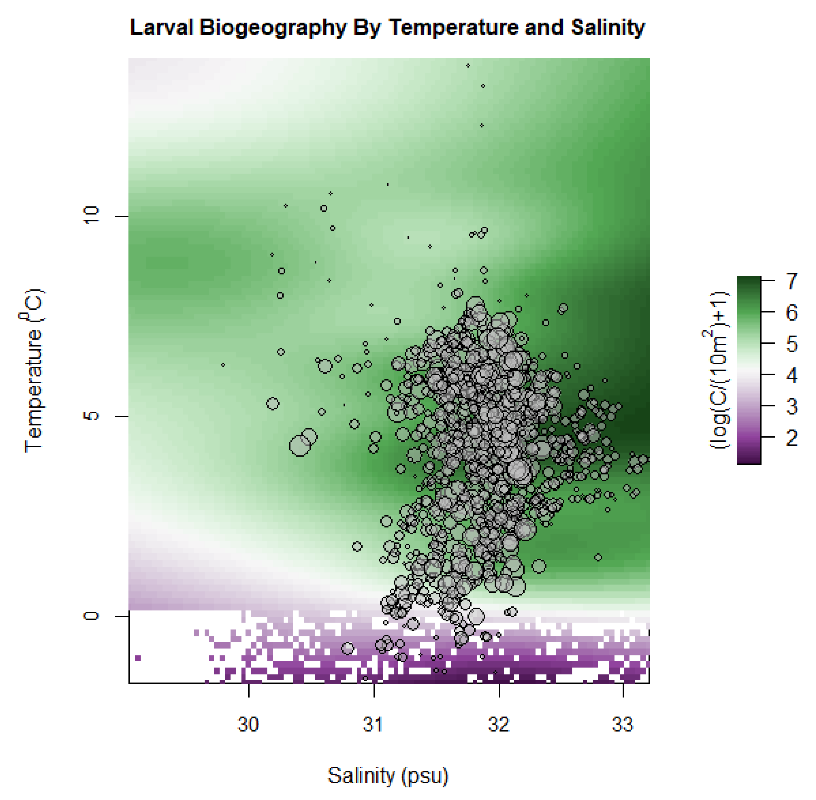




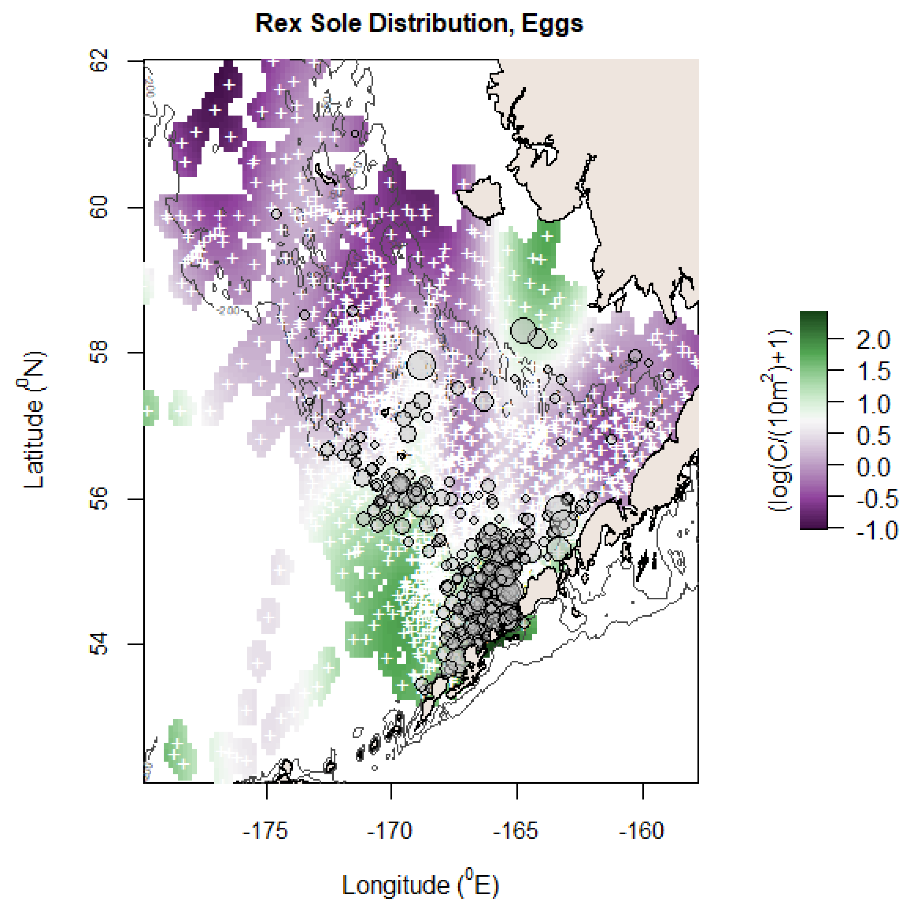
MSE reduction: 0.136, AIC reduction: 531.51, Deviance explained: 71.4%



Deviance explained: 65.9%

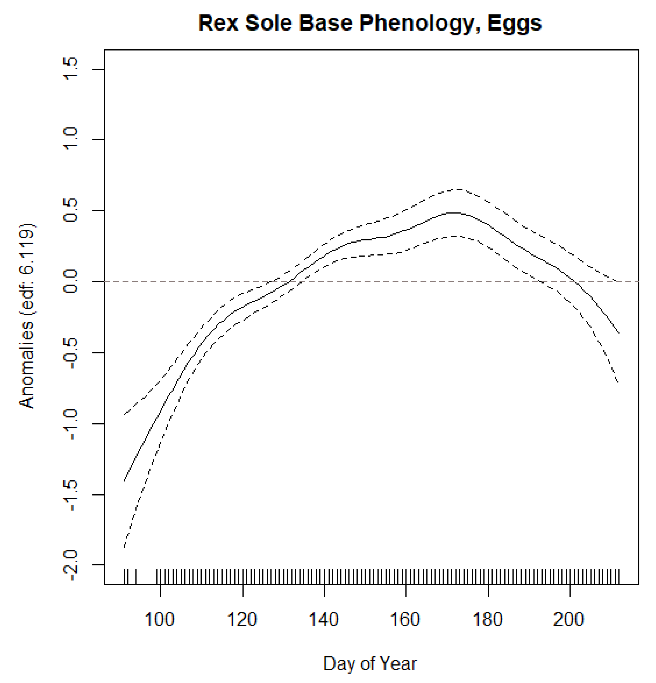
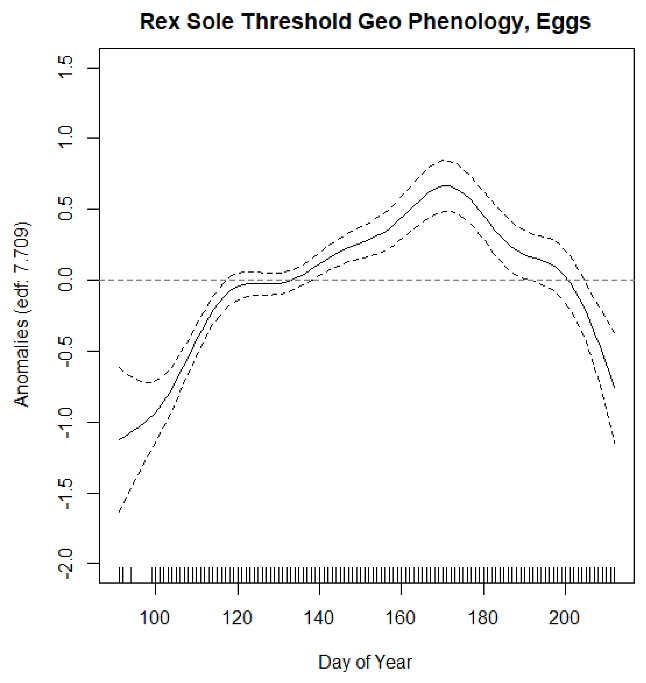
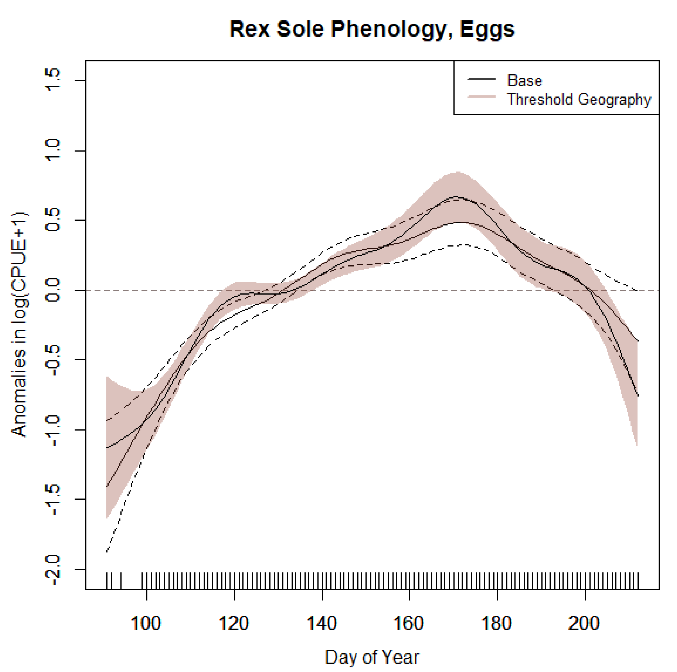


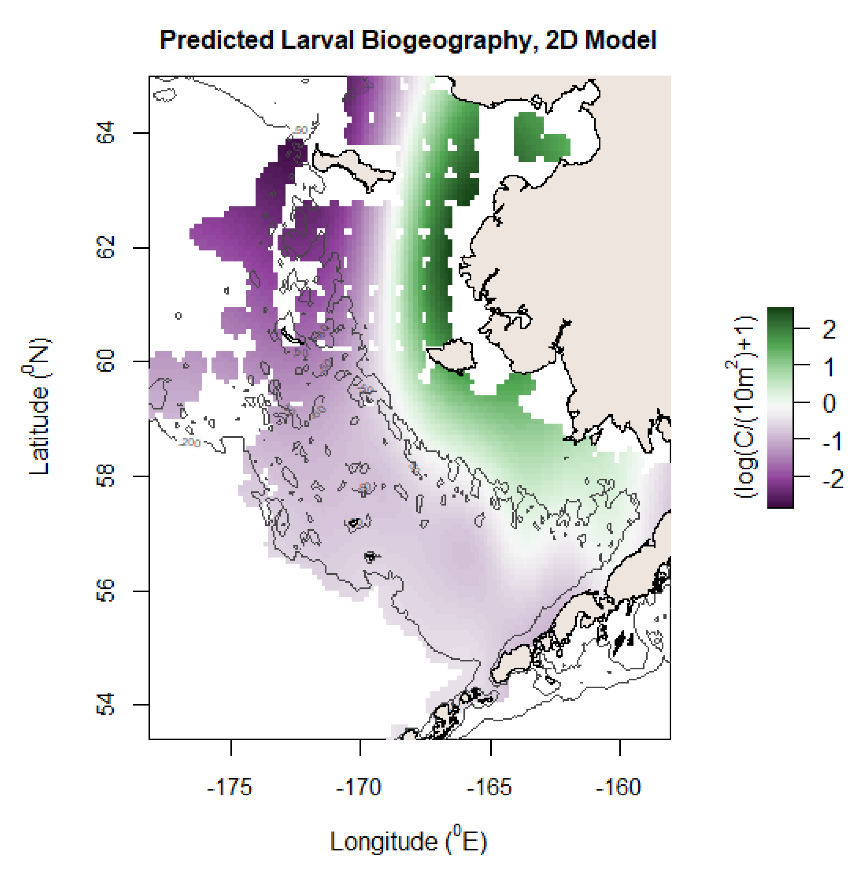
Deviance explained: 60.4%



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

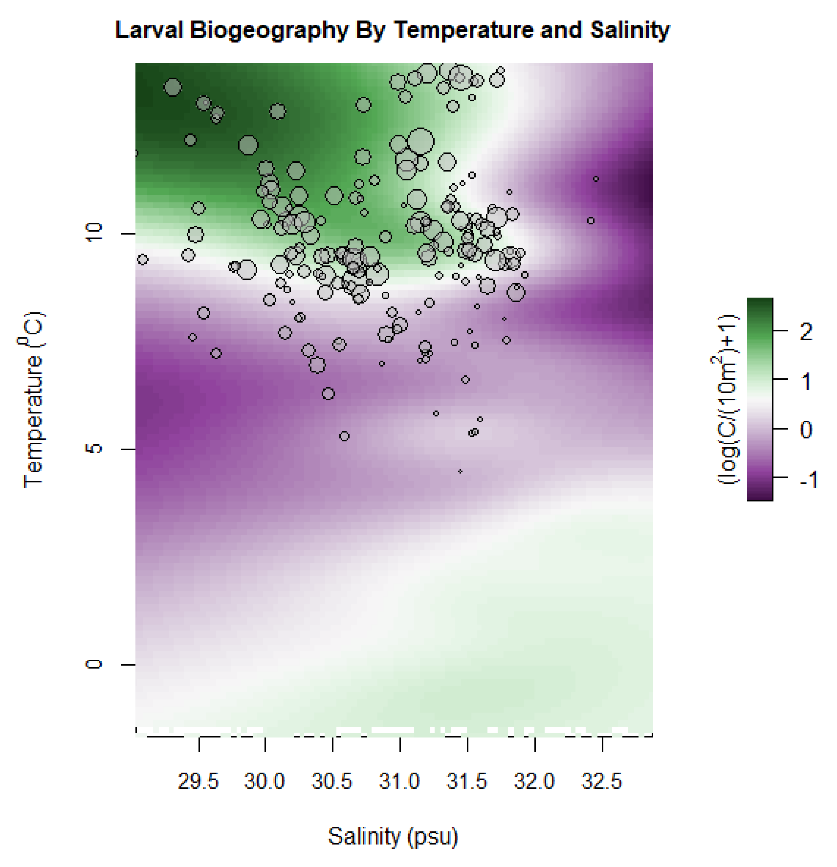
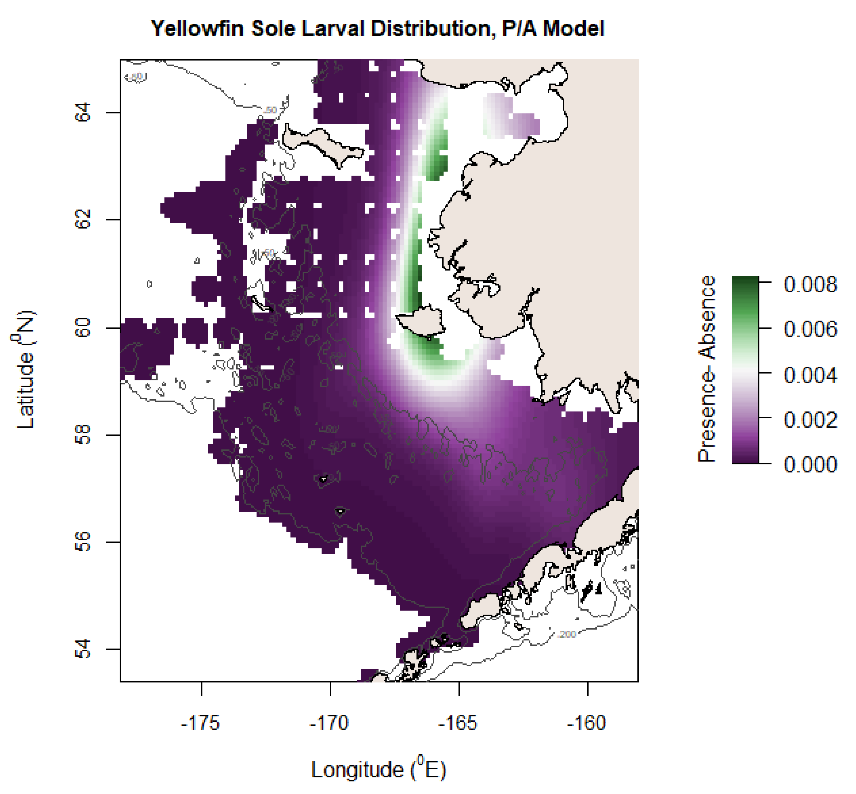
1 Deviance explained: 51.9%



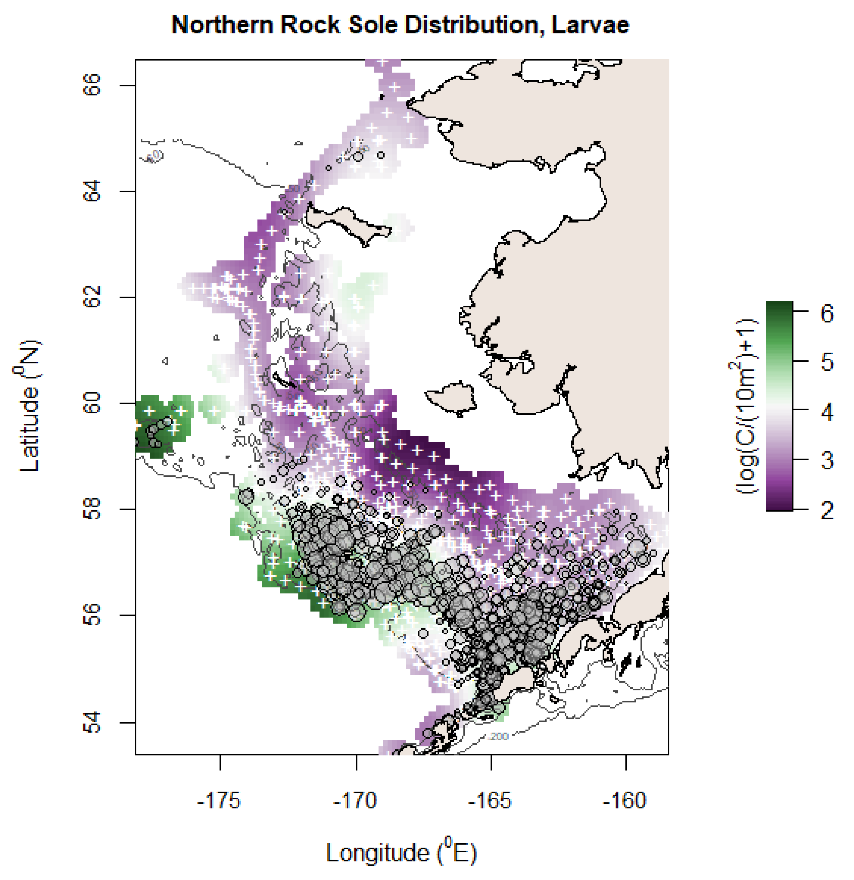
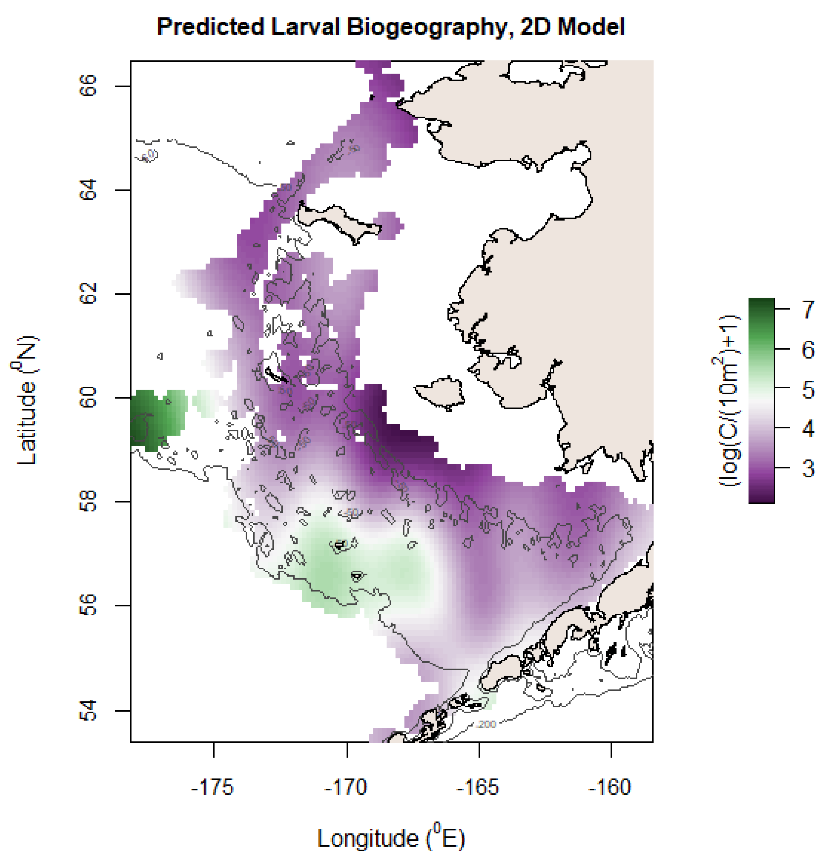


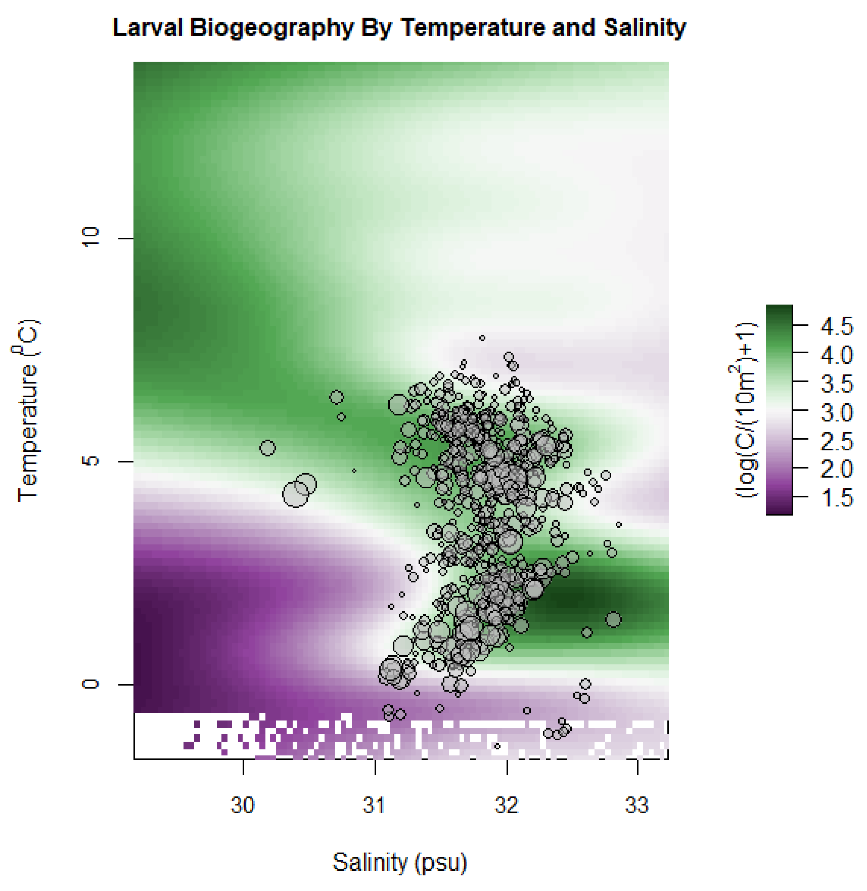
MSE reduction: 0.194, AIC reduction: 569.00, Deviance explained: 83.8%

Deviance explained: 79.2%



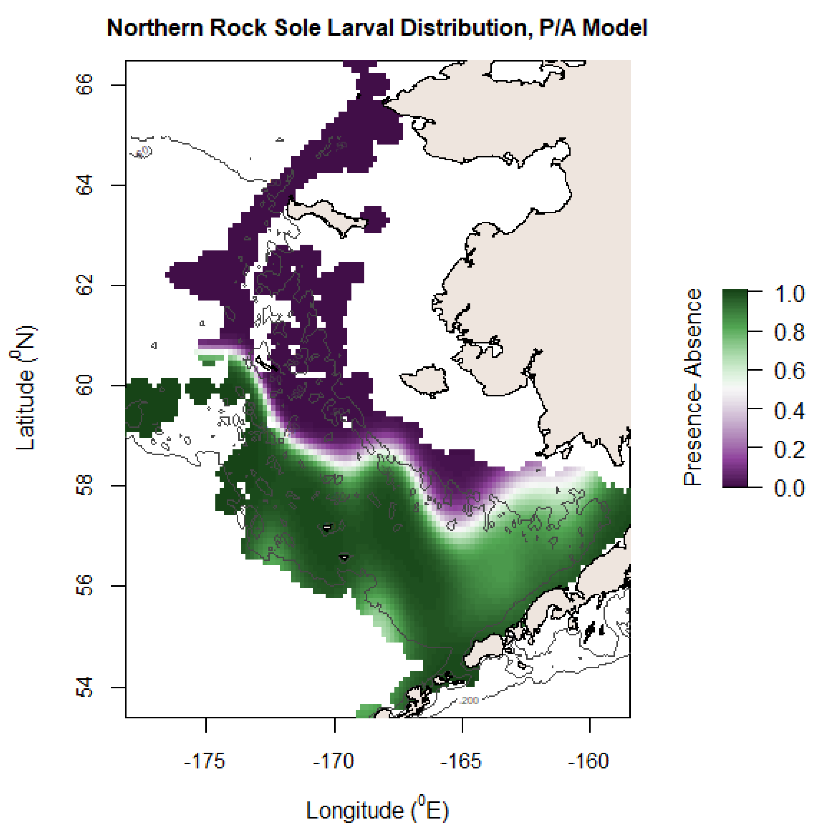
Deviance explained: 72%





MSE reduction: 0.118, AIC reduction: 344.99, Deviance explained: 69.9%

Deviance explained: 64.9%

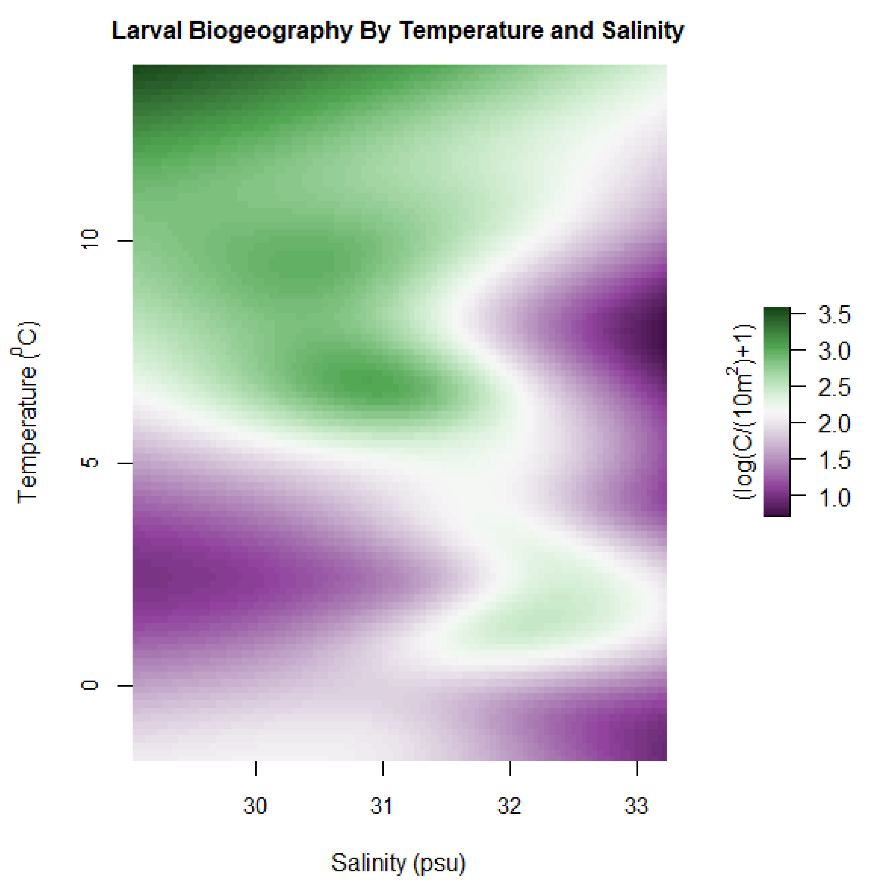


Deviance explained: 53.4%

Chart, scatter chart

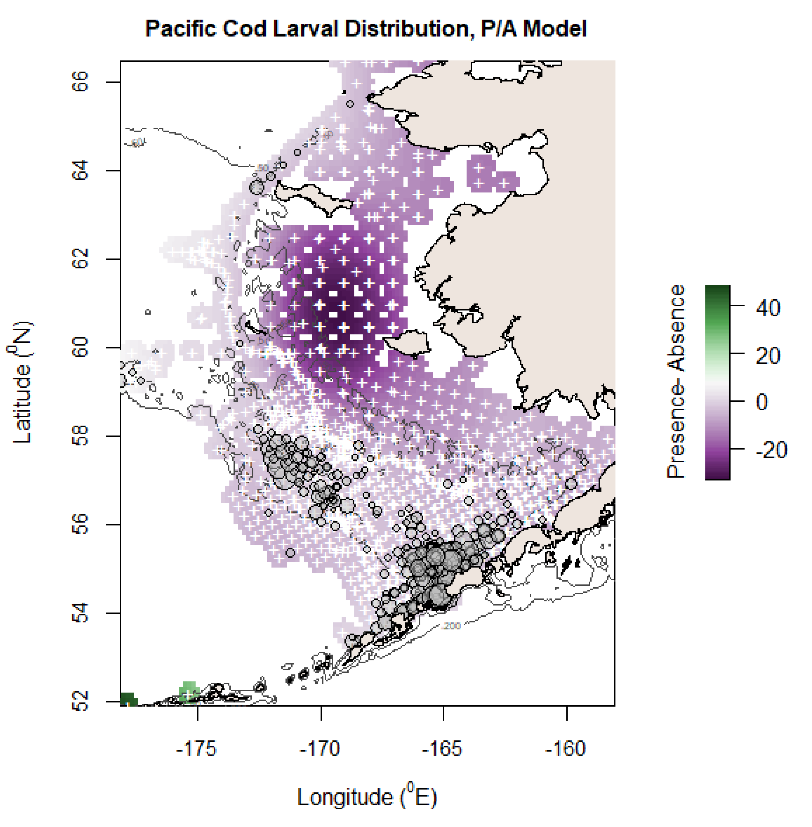
Description automatically generatedChart, scatter chart

Description automatically generated



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

Deviance explained: 69%



Deviance explained 52.6%

