##   
## Call:  
## glm(formula = Orient2 ~ Year, family = "binomial", data = cam[cam$Bay ==   
## "Dvina", ])  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -0.3518 -0.3336 -0.3163 -0.2999 2.5687   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -76.26200 36.59739 -2.084 0.0372 \*  
## Year 0.03641 0.01818 2.003 0.0452 \*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 1844.1 on 4716 degrees of freedom  
## Residual deviance: 1840.0 on 4715 degrees of freedom  
## AIC: 1844  
##   
## Number of Fisher Scoring iterations: 6

##   
## Call:  
## glm(formula = Orient2 ~ Year, family = "binomial", data = cam[cam$Bay ==   
## "Onega", ])  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -0.7015 -0.6889 -0.6764 -0.6682 1.7969   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)  
## (Intercept) 12.367401 14.320639 0.864 0.388  
## Year -0.006815 0.007121 -0.957 0.339  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 4421.6 on 4325 degrees of freedom  
## Residual deviance: 4420.6 on 4324 degrees of freedom  
## AIC: 4424.6  
##   
## Number of Fisher Scoring iterations: 4

##   
## Call:  
## glm(formula = Orient2 ~ Year, family = "binomial", data = cam[cam$Bay ==   
## "Mezen", ])  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -0.2646 -0.2627 -0.2591 -0.2555 2.6275   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)  
## (Intercept) -31.74060 116.95440 -0.271 0.786  
## Year 0.01409 0.05809 0.243 0.808  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 658.80 on 2266 degrees of freedom  
## Residual deviance: 658.74 on 2265 degrees of freedom  
## AIC: 662.74  
##   
## Number of Fisher Scoring iterations: 6

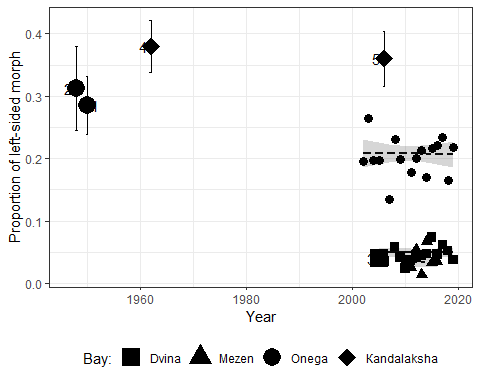


Table ++. Parameters of model fitted

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model term | Parameter | SE | Z-statistic | p-value |
| (Intercept) | -1.7535 | 13.2183 | -0.1327 | 0.8945 |
| Year | -0.0006 | 0.0066 | -0.0918 | 0.9269 |
| BayMezen | -0.4086 | 0.1354 | -3.0169 | 0.0026 |
| BayOnega | 1.6271 | 0.0781 | 20.8432 | 0.0000 |