Final Model: Region + Season + Sex + Sizecm + Region:Season + Region:Sex + Season:Sex + Sex:Sizecm

**Akaike’s Information Criterion (AIC)**

Intercept occurred at the NorthEastCentral Region.

Parameters Reporting Notes:

Intercept was at -.376 for the NorthEastCentral Region.

A manatee located in the NorthWestCentral Region, versus the NorthEastCentral region changes the log likelihood of death by collision by -0.6879 with .7168 standard error.

Statistical Conclusion:

Scientific Conclusion:

1.) Checking for multicollinearity among your model predictors using VIF analysis may be appropriate as well.

2.) Checking for heteroskedasticity within your model may be useful by extracting the model residuals and checking them for normality (although this is debated for GLMs).

3.) Lastly, don't forget that if you have significant interactions between factors and continuous predictors, the single variables should no longer be interpreted as an "overall effect" on the dependent variable.  You should instead interpret the interactions.