

Habitat modelling of crabeater seals (*Lobodon carcinophaga*) in the Weddell Sea using the multivariate approach Maxent

Polar Biology

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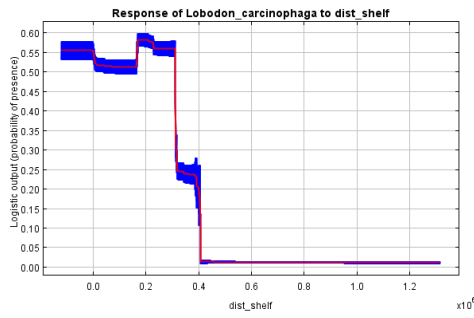
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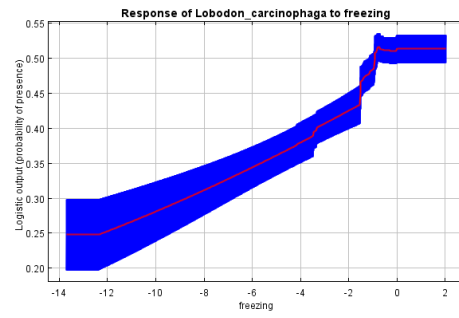
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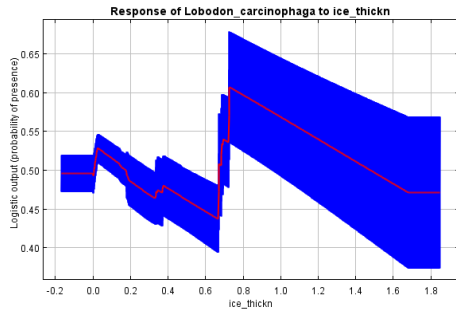
a)



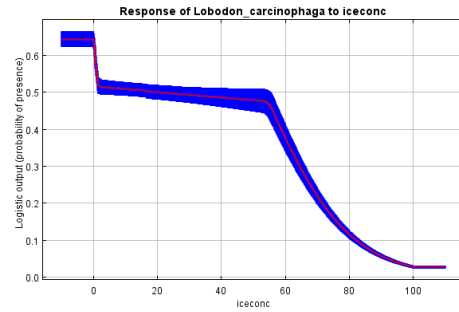
Distance to shelf break



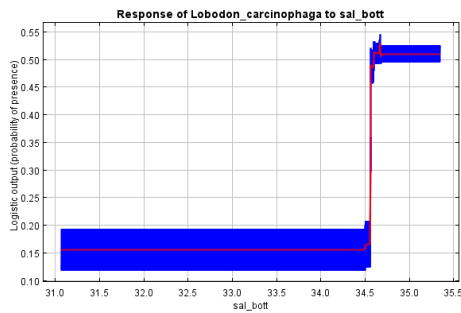
Sea ice freezing rate



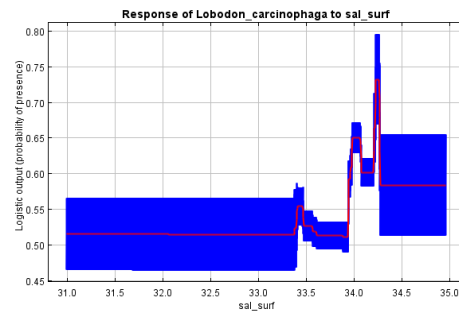
Sea ice thickness



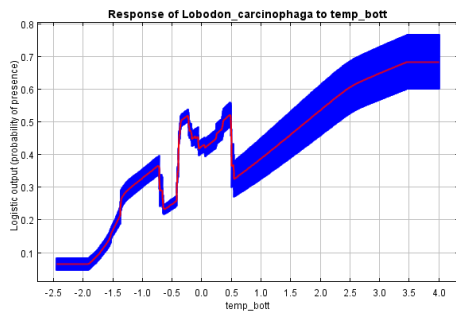
Sea ice concentration



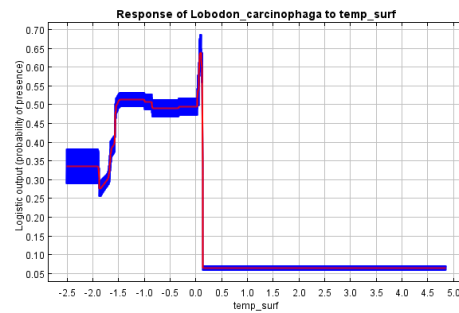
Salinity, bottom



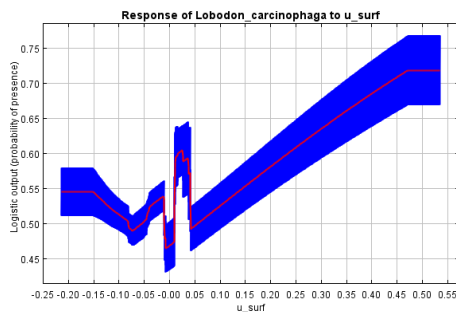
Salinity, surface



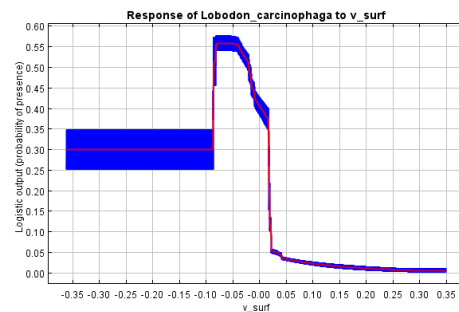
Water temperature, bottom



Water temperature, surface



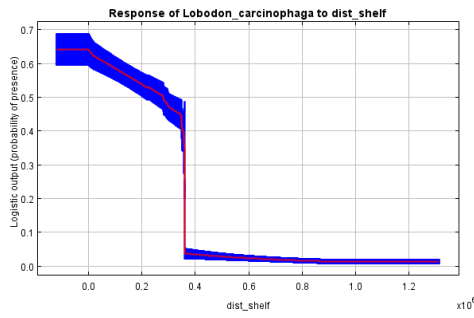
Velocity, zonal, surface



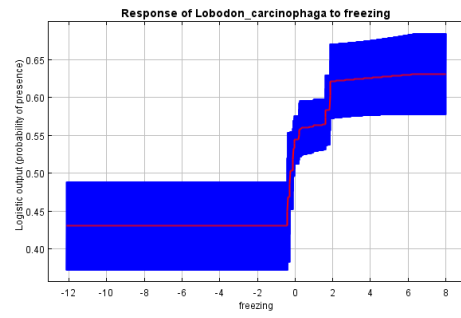
Velocity, meridional, surface

Online Resource 2 Response curves for each environmental variable as predicted by our Maxent models for February (a), March (b) and April 1998 (c). The curves show how the probability of presence of crabeater seals changes as each variable is varied, keeping all other variables at their average sample value. Results are given as mean (red line) and standard deviation (blue shade) of 20 Maxent model runs. For interpretation please mind the scale of each graph as well as the relative importance of each variable as given in Table 4

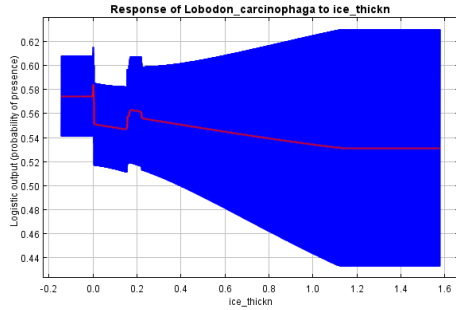
b)



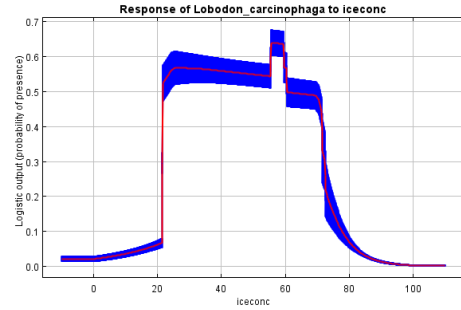
Distance to shelf break



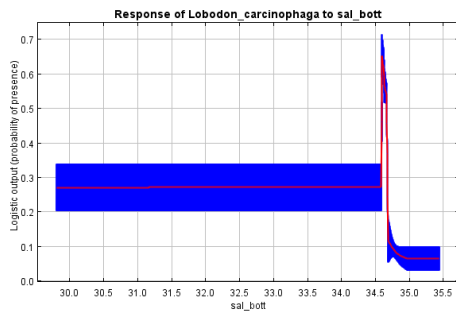
Sea ice freezing rate



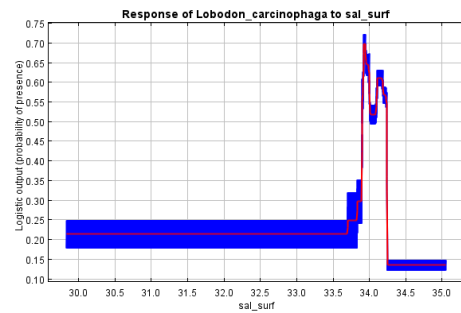
Sea ice thickness



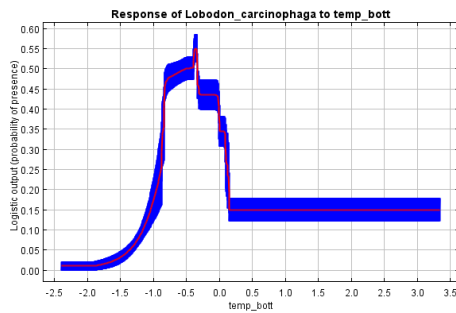
Sea ice concentration



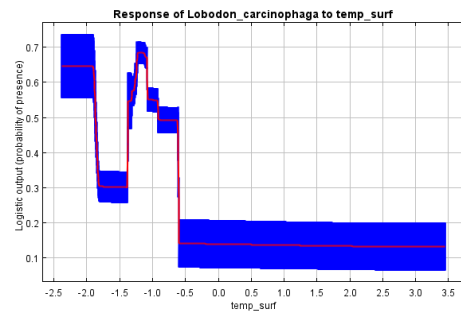
Salinity, bottom



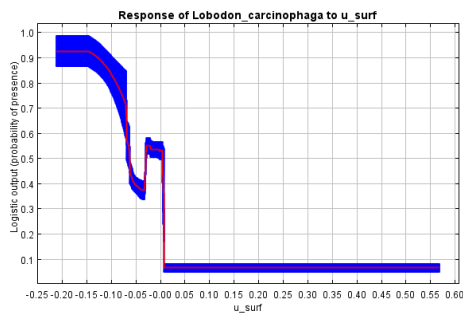
Salinity, surface



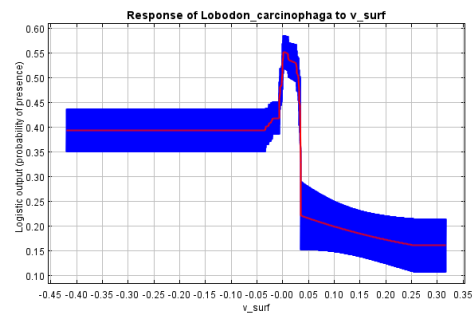
Water temperature, bottom



Water temperature, surface

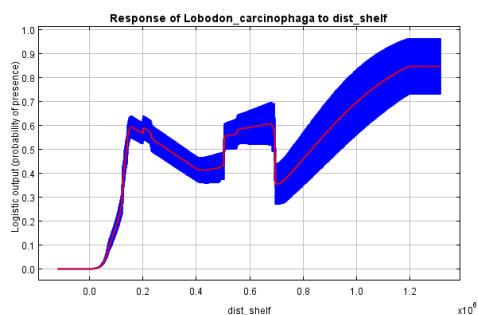


Velocity, zonal, surface

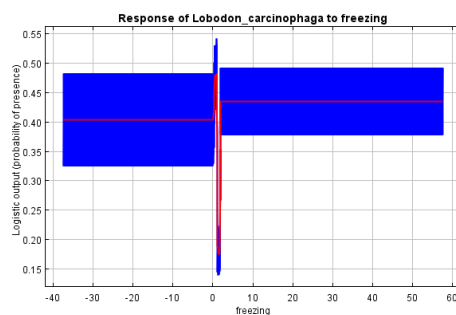


Velocity, meridional, surface

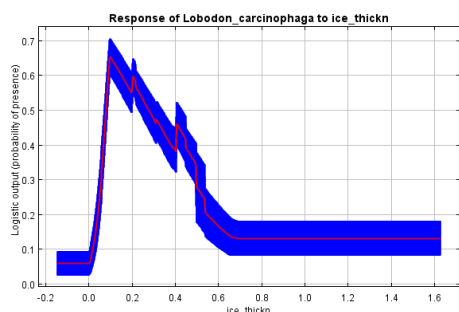
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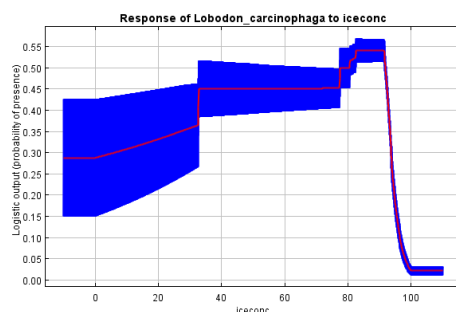
Distance to shelf break



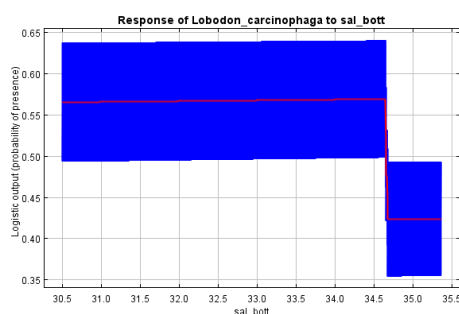
Sea ice freezing rate



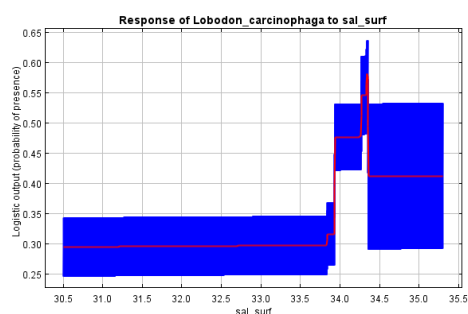
Sea ice thickness



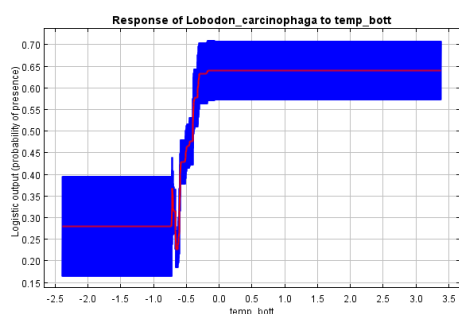
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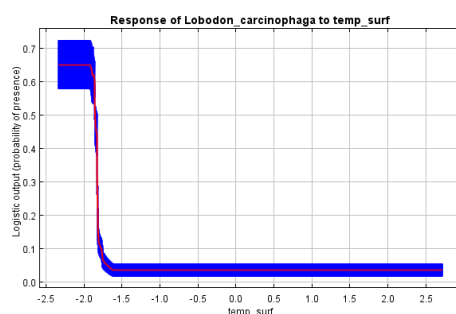
Salinity, bottom



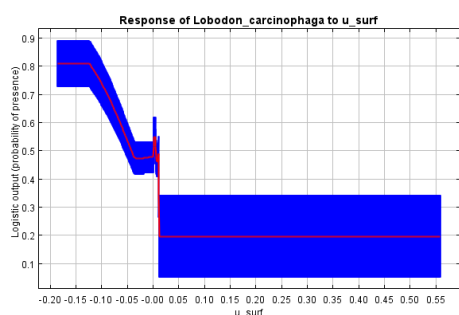
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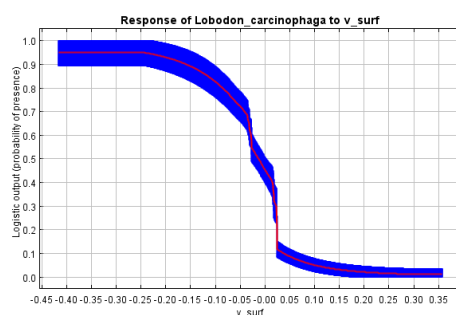
Water temperature, bottom



Water temperature, surface



Velocity, zonal, surface



Velocity, meridional, surface