This read me provides information about the parameters used in output files for CARMMHA modeling papers. Within folders *InOutBySp*, and for each taxonomic unit’s directory, there are the following files:

File: Prediction\_Area.img

The is an image that defines the area over which we assume the taxonomic unit population occurs in the GOM

File: N\_bycell.csv

This is a single column with expected values for each of the grid cells each taxonomic unit is evaluated over (the ) the number of individuals of the corresponding taxonomic unit of a generalized additive model describing animal density as a function of spatially indexed covariates.

File: N\_boot\_in\_oil.csv

This is a single column with expected values for the number of individuals found within the oil spill footprint from 1,000 iterations of a generalized additive model describing animal density as a function of spatially indexed covariates. For each iteration the number represents the sum of the number of individuals estimated to be within each cell within the oil footprint.

File: N\_boot.csv

This is a single column with expected values for the number of individuals of the corresponding taxonomic unit from 1,000 iterations of a generalized additive model describing animal density as a function of spatially indexed covariates. For each iteration the number represents the sum of the number of individuals estimated to be within each cell of the area defined by Prediction\_Area.img

See file ES2\_InitialPopulationSizes.pdf for details about how these different files are used to produce initial population sizes and the proportion exposed for each of the taxonomic units