

**APPENDIX A**  
**Variables added to the NEFOP dataset**

Variable name	Variable description
BotTemp	climatological sea bottom temperature in degrees Celsius
btm_dpth	bathymetry from the National Geophysical Data Center's ETOPOv2; in negative meters; resolution 2 arc minute (~4 kilometers)
btm_slp	bottom slope
chl_final	chlorophyll <i>a</i> concentration in milligrams/cubic meter (post-1996 only)
chl_final_log10	log <sub>10</sub> of chl_final
closure_all	all closures and gear modification areas defined by the Harbor Porpoise Take Reduction Plan: <sup>19</sup> Cape Cod South, Cashes Ledge, Massachusetts Bay, Mid-Coast, New Jersey Mudhole, Northeast, Offshore, southern Mid-Atlantic, Waters off New Jersey  all closures defined by the Atlantic Large Whale Take Reduction Plan: Cape Cod Bay Critical Habitat Area, Great South Channel Critical Habitat Area
closure_ma	Mid-Atlantic closures from the Harbor Porpoise or Large Whale Take Reduction Plan
closure_ne	Northeast closures from the Harbor Porpoise or Large Whale Take Reduction Plan
d_b50	distance in either direction from the 50-meter depth contour line; in meters; resolution 100 meters
d_b100	distance in either direction from the 100-meter depth contour line; in meters; resolution 100 meters
d_b200	distance in either direction from the 200-meter depth contour line; in meters; resolution 1000 meters
d_b500	distance in either direction from the 500-meter depth contour line; in meters; resolution 1000 meters
d_coast	distance from the coast; in meters; resolution 1000 meters
dep_cr	bathymetry from the National Geophysical Data Center's Coastal Relief; in negative meters; resolution 3 arc second (~90 meters)
dep_srtm	bathymetry from the United States Geological Survey's SRTM30 v.1; in negative meters; resolution 30 arc second (~1000 meters)
final_asp	compass direction of surface temperature difference, providing an indication of oceanographic fronts
final_fnt	strength of surface temperature difference in degrees Celsius, providing an indication of oceanographic fronts
fshdiscliv	total live pounds of catch discarded on a haul
fshkeptliv	total live pounds of catch kept on a haul; kept = landed in port (post-2000)
gnArea	regions that correspond to regulations for gear restrictions in the Harbor Porpoise Take Reduction Plan. Regions are Gulf of Maine, waters off NJ, southern Mid-Atlantic, and southern New England (GOM, NJ, SMA, SNE). See Figure 3.
hailwtliv	hailwt converted from dressed to live weight. Differs from hailwt only if the dressed/round flag indicates a dressed weight (drflag = 1).

<sup>19</sup> See [http://www.nero.noaa.gov/prot\\_res/porptrp/finalrule.pdf](http://www.nero.noaa.gov/prot_res/porptrp/finalrule.pdf) for a map of closure areas.

nao	monthly mean NAO index
nao_1	one-year lag of monthly mean NAO index
nao_2	two-year lag of monthly mean NAO index
pingperc	percentage of active marine mammal deterrent devices on a net relative to how many should be on a net per regulations
r3nao	three-month running average of monthly mean NAO index
r3nao_1	one-year lag of three-month running average NAO
r3nao_2	two-year lag of three-month running average NAO
region	NEFSC study area divided into four regions: Gulf of Maine, Hudson Canyon, southern New England, and Mid-Atlantic (GOM, HUD, SNE, MAT). See Figure 3.
region2	same as region but with HUD combined into SNE
sbt_diff	difference between sea surface and bottom temperature in degrees Celsius; calculated as wttmp minus BotTemp (see Appendix B for description of wttmp)
sbt_dpm	difference in sea surface and bottom temperature per meter; calculated as sbt_diff divided by depth (see Appendix B for description of depth)
sst_final	sea surface temperature in degrees Celsius; acquired from satellite data
wnao	winter NAO index (average of monthly mean NAO index for December through March)
wnao_1	one-year lag of winter NAO index
wnao_2	two-year lag of winter NAO index