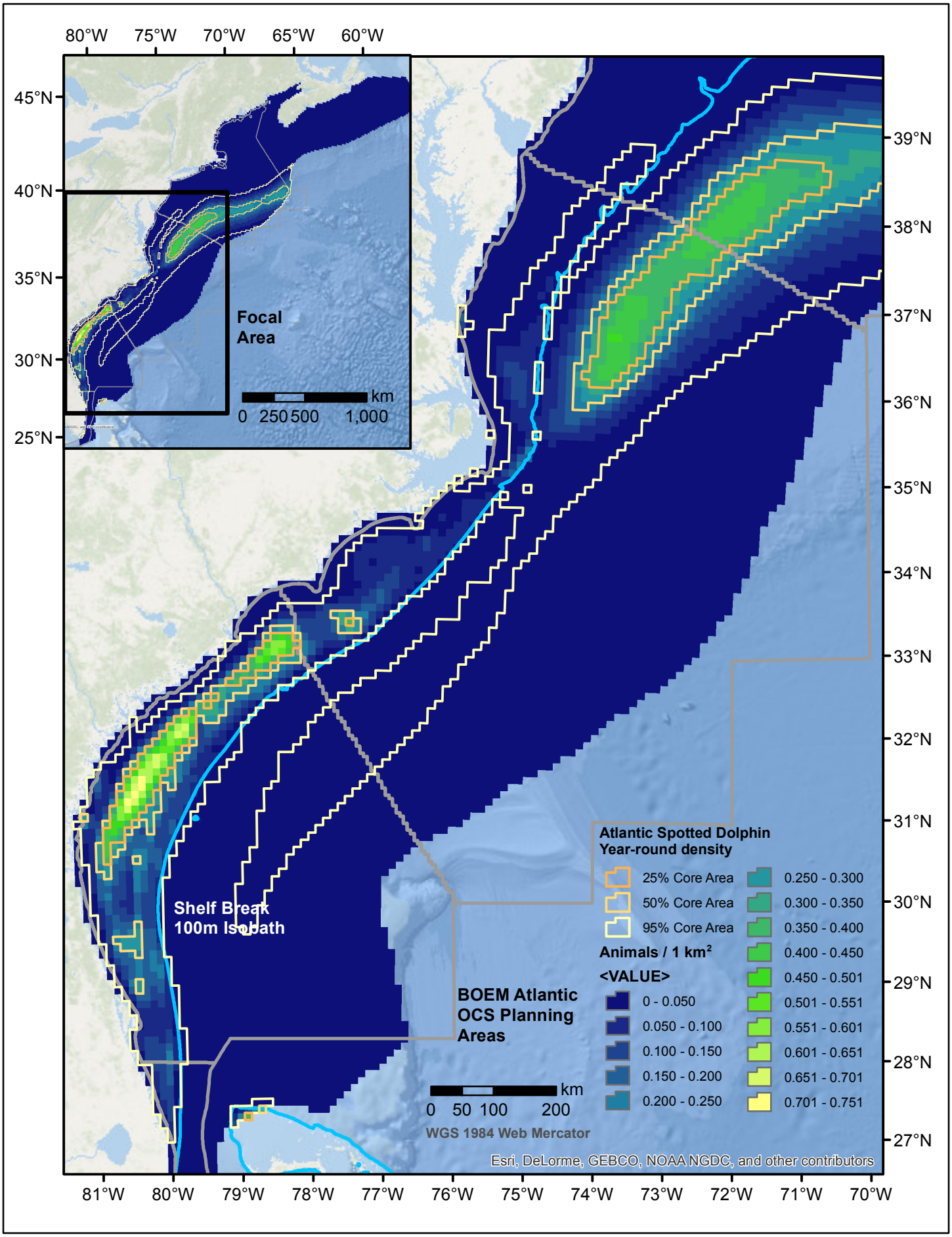
Note

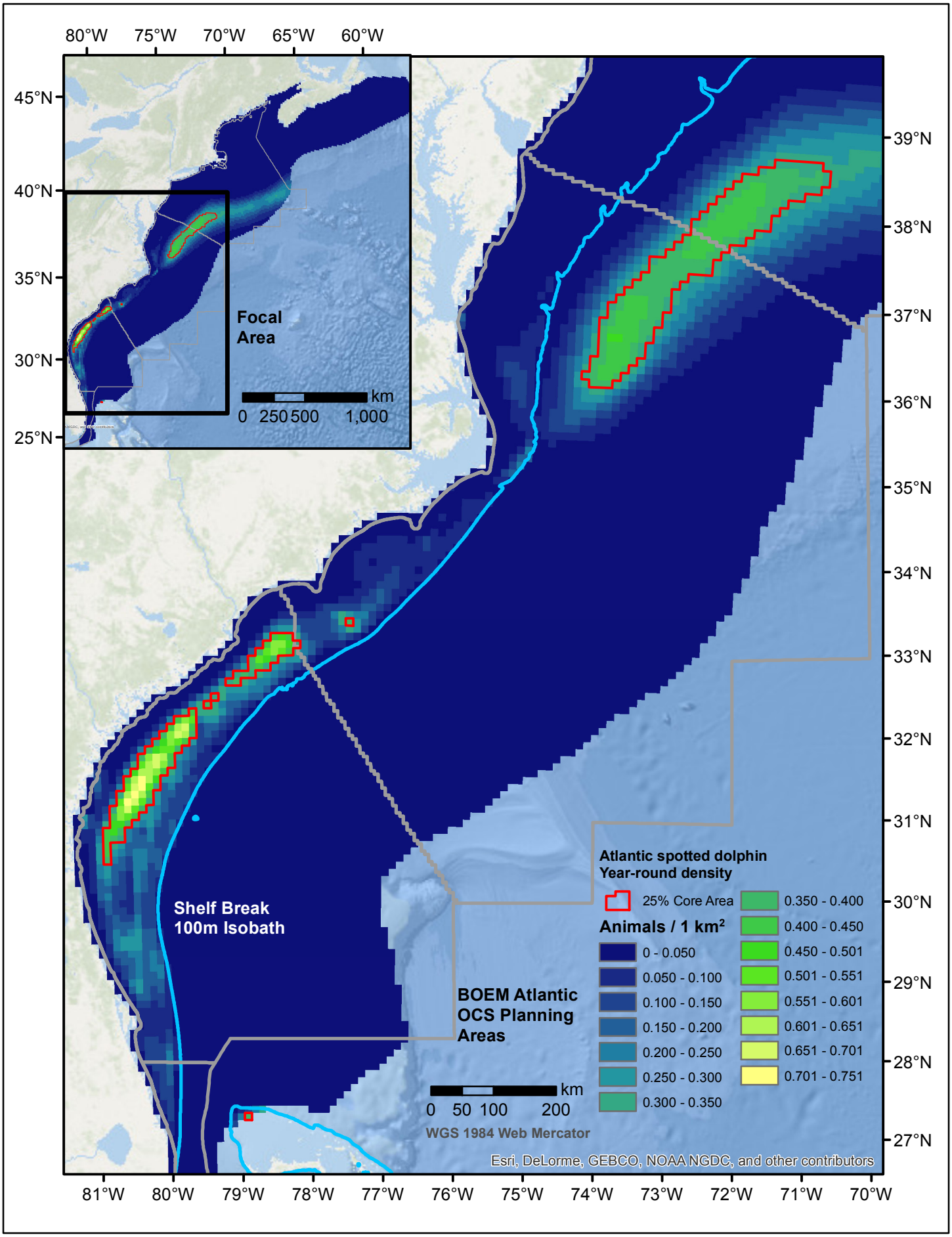
The following maps display predicted density values for selected marine mammal species within the area of interest, as well as derived products referred to here as core abundance areas. These maps are based on the work of Roberts *et al*. (2016); please see that publication for a detailed description of the underlying models. The purpose of a core abundance area is to represent the smallest area containing some percentage of the predicted abundance of each species; the process used for generating these areas was described in the *Federal Register* notice with which this supplementary material is associated, at pages 26261-26262.

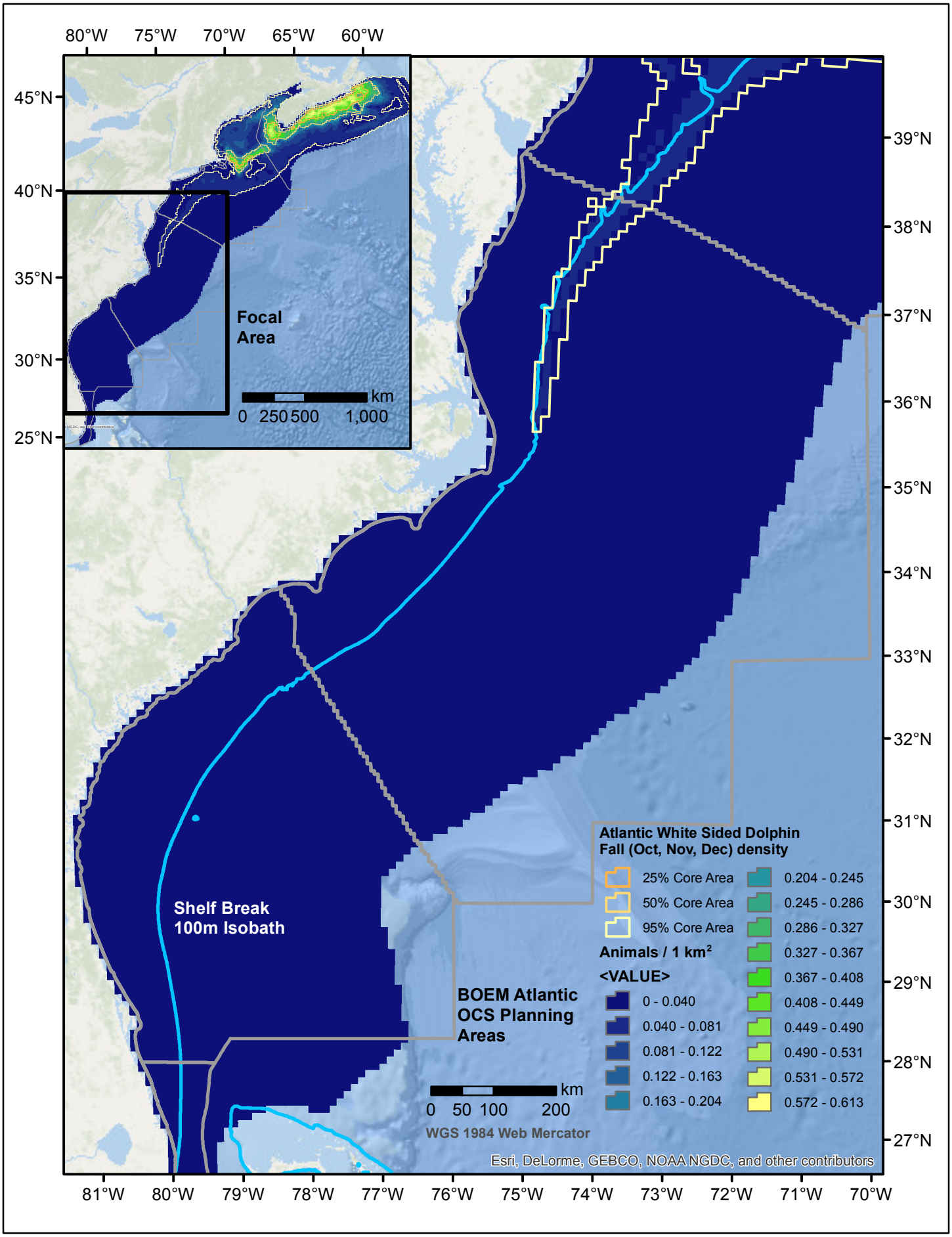
For most species, we provide a map displaying core abundance areas at 25%, 50%, and 95% thresholds. For select species, we also provide a separate map highlighting the 25% core abundance area and, for the sperm whale only, maps highlighting the 5% core abundance area. We do not present maps for those species represented by Roberts *et al*. (2016) through use of a stratified density model. For those species with monthly (vs. year-round) prediction resolution, we provide four maps representing Spring, Summer, Fall, and Winter. For the minke whale, Winter density is predicted through a combination of a density surface model and a stratified model.

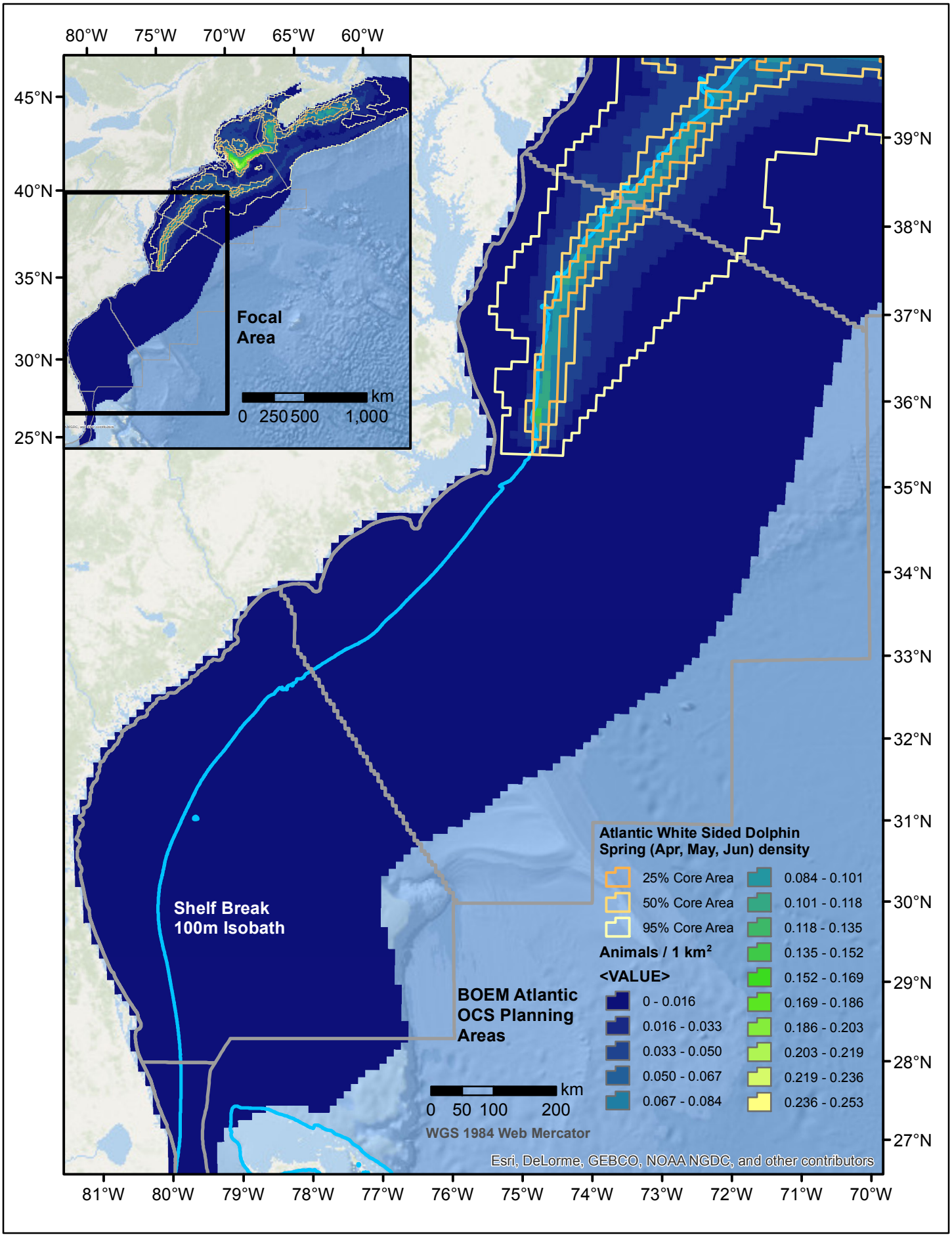
Maps and supplementary information for all taxa may be found online at OBIS-SEAMAP: http://seamap.env.duke.edu/models/Duke-EC-GOM-2015/.

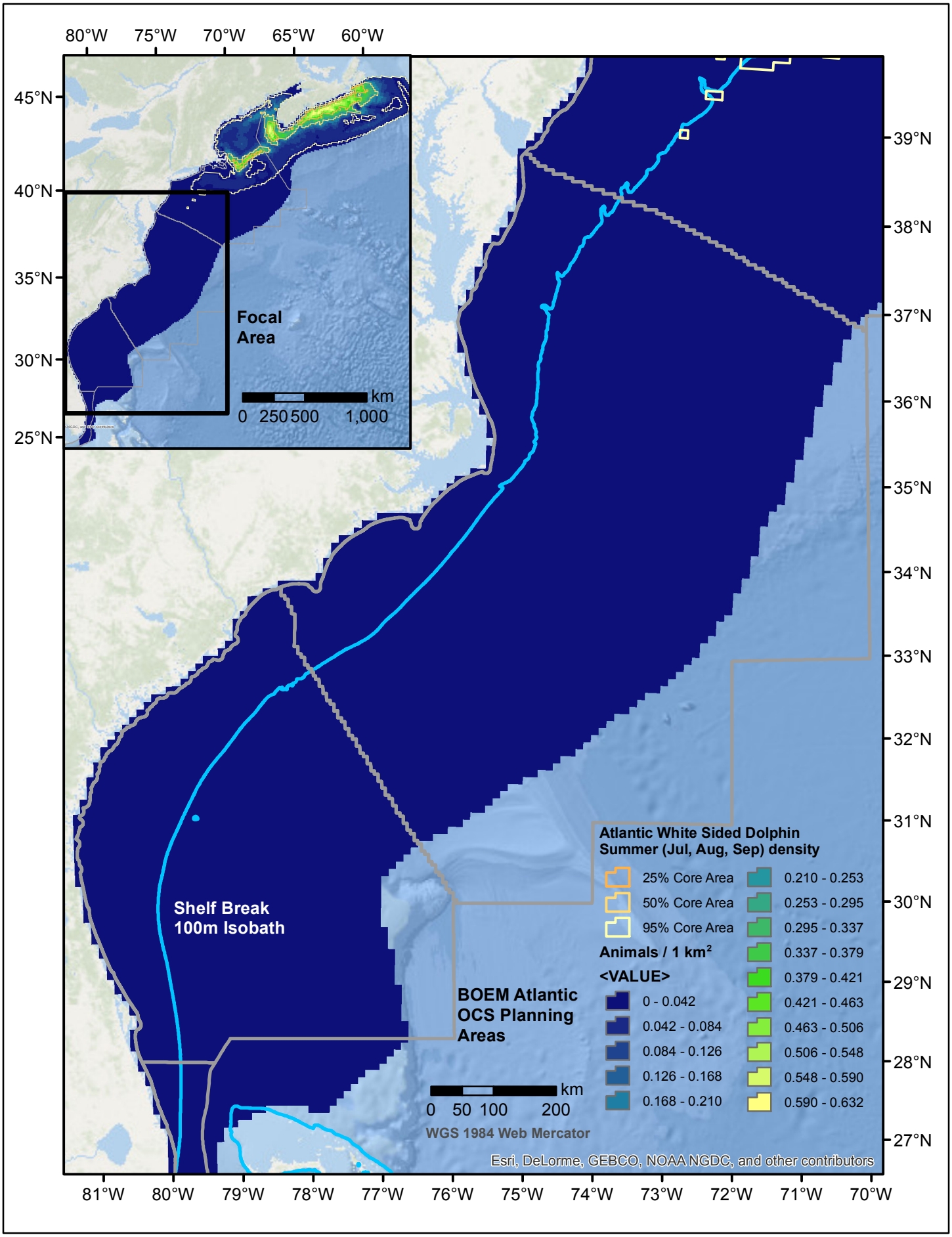
Roberts, J.J., B.D. Best, L. Mannocci, E. Fujioka, P.N. Halpin, D.L. Palka, *et al*. 2016. Habitat-based cetacean density models for the U.S. Atlantic and Gulf of Mexico. Scientific Reports 6:22615.

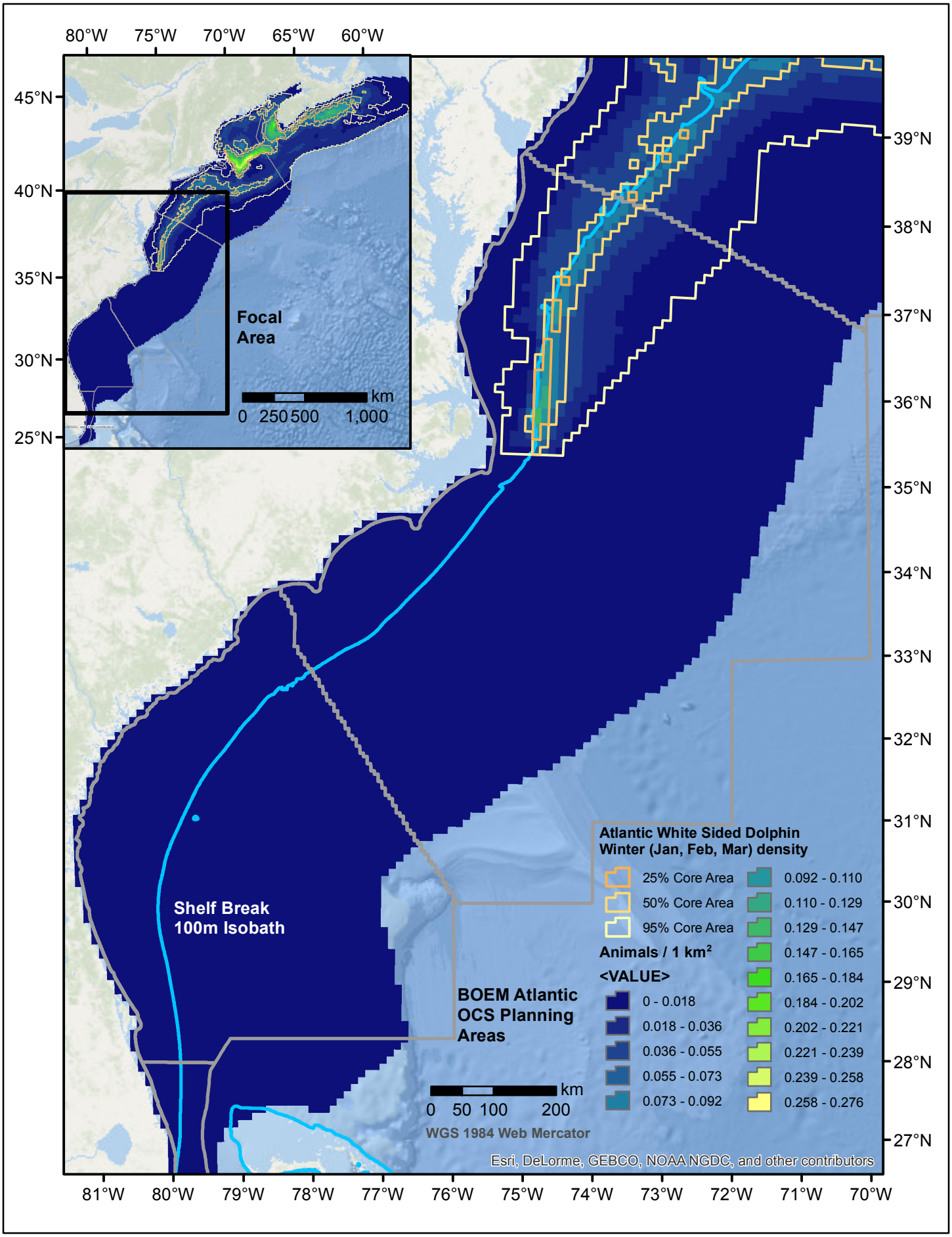

80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Atlantic Spotted Dolphin Year-round density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.050
0.050 - 0.100
0.100 - 0.150
0.150 - 0.200
0.200 - 0.250
0.250 - 0.300
0.300 - 0.350
0.350 - 0.400
0.400 - 0.450
0.450 - 0.501
0.501 - 0.551
0.551 - 0.601
0.601 - 0.651
0.651 - 0.701
0.701 - 0.751
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W

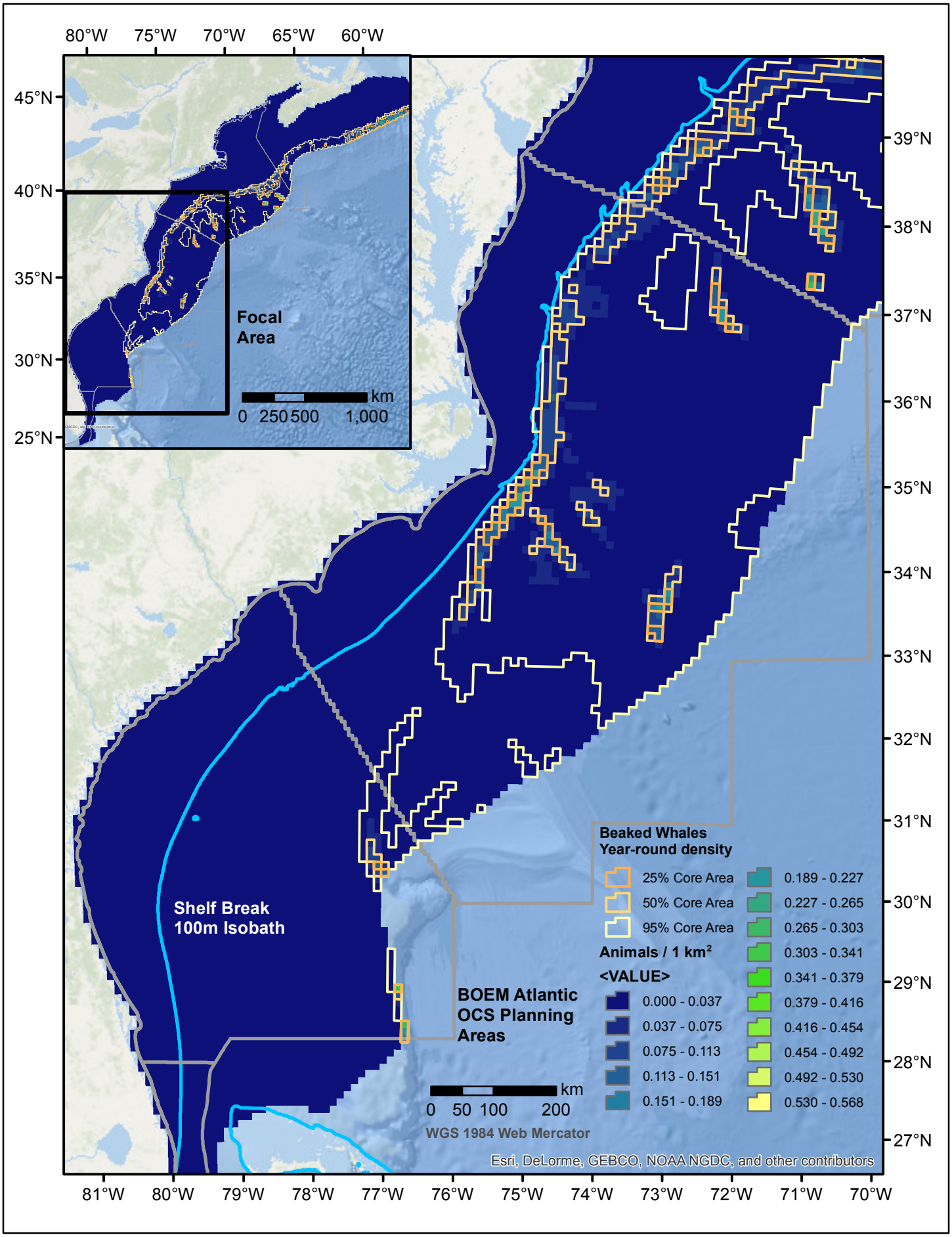

80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Atlantic spotted dolphin
Year-round density
25% Core Area
Animals / 1 km²
0 - 0.050
0.050 - 0.100
0.100 - 0.150
0.150 - 0.200
0.200 - 0.250
0.250 - 0.300
0.300 - 0.350
0.350 - 0.400
0.400 - 0.450
0.450 - 0.501
0.501 - 0.551
0.551 - 0.601
0.601 - 0.651
0.651 - 0.701
0.701 - 0.751
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W

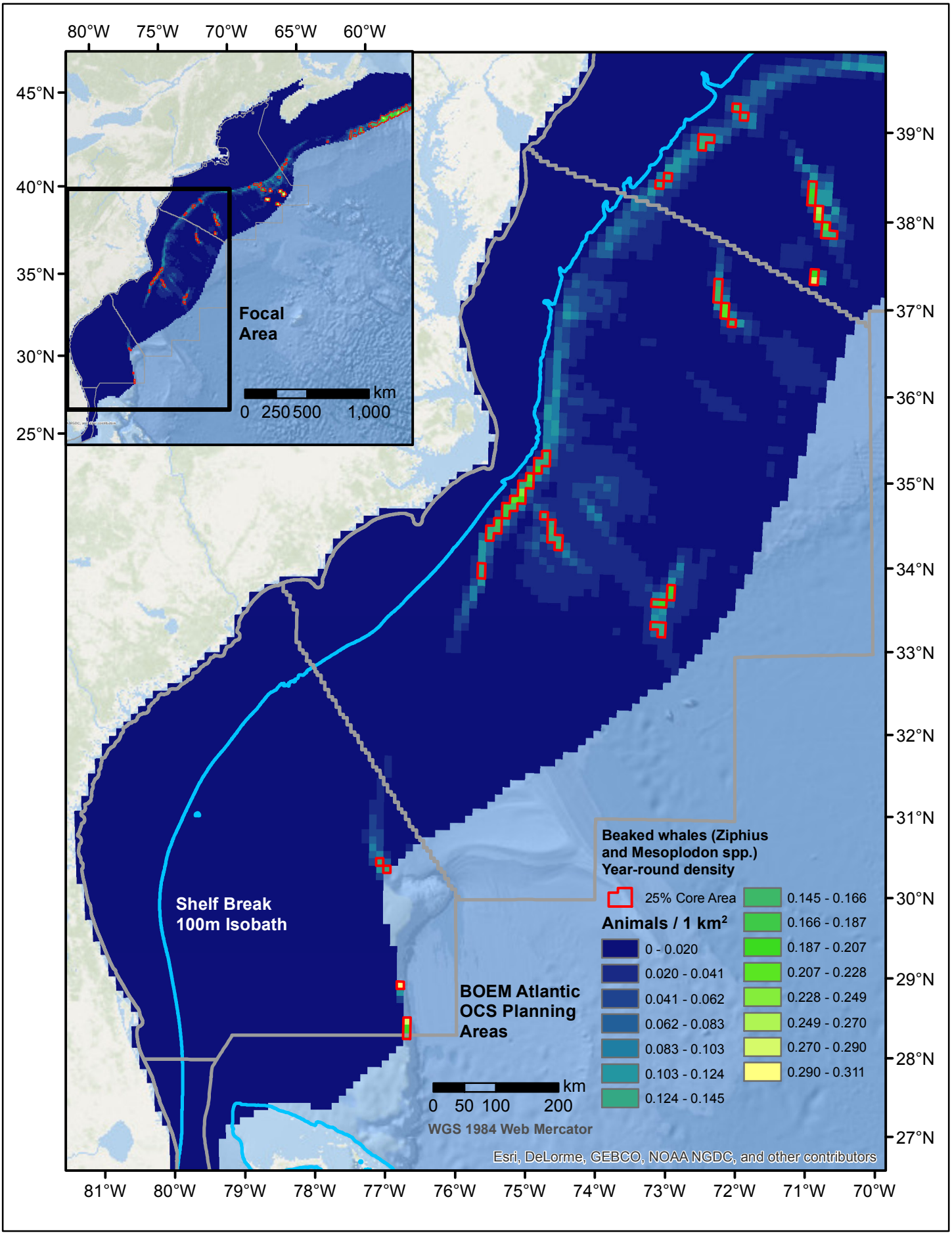

80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Atlantic White Sided Dolphin Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.040
0.040 - 0.081
0.081 - 0.122
0.122 - 0.163
0.163 - 0.204
0.204 - 0.245
0.245 - 0.286
0.286 - 0.327
0.327 - 0.367
0.367 - 0.408
0.408 - 0.449
0.449 - 0.490
0.490 - 0.531
0.531 - 0.572
0.572 - 0.613
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W

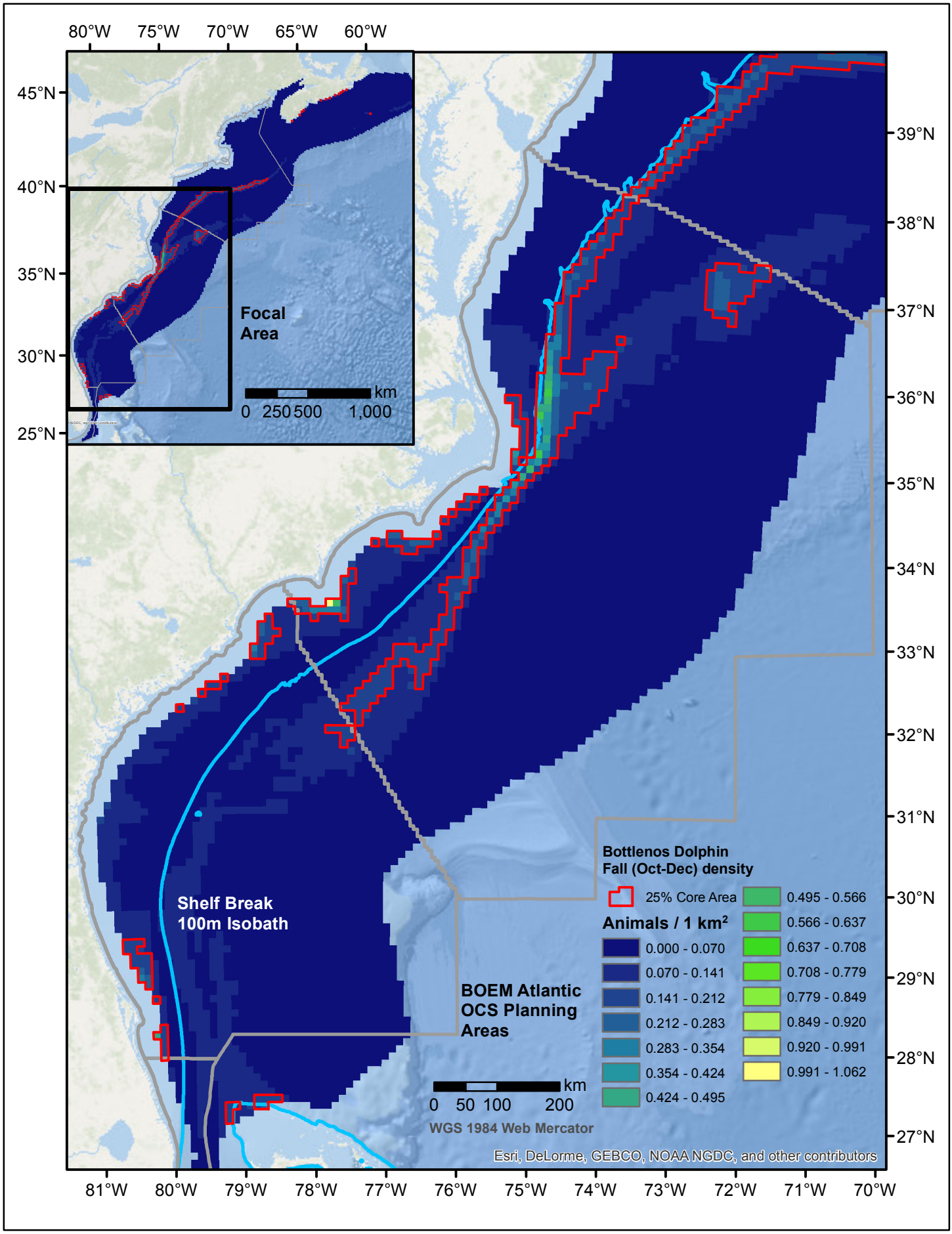

80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Atlantic White Sided Dolphin Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.016
0.016 - 0.033
0.033 - 0.050
0.050 - 0.067
0.067 - 0.084
0.084 - 0.101
0.101 - 0.118
0.118 - 0.135
0.135 - 0.152
0.152 - 0.169
0.169 - 0.186
0.186 - 0.203
0.203 - 0.219
0.219 - 0.236
0.236 - 0.253
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W

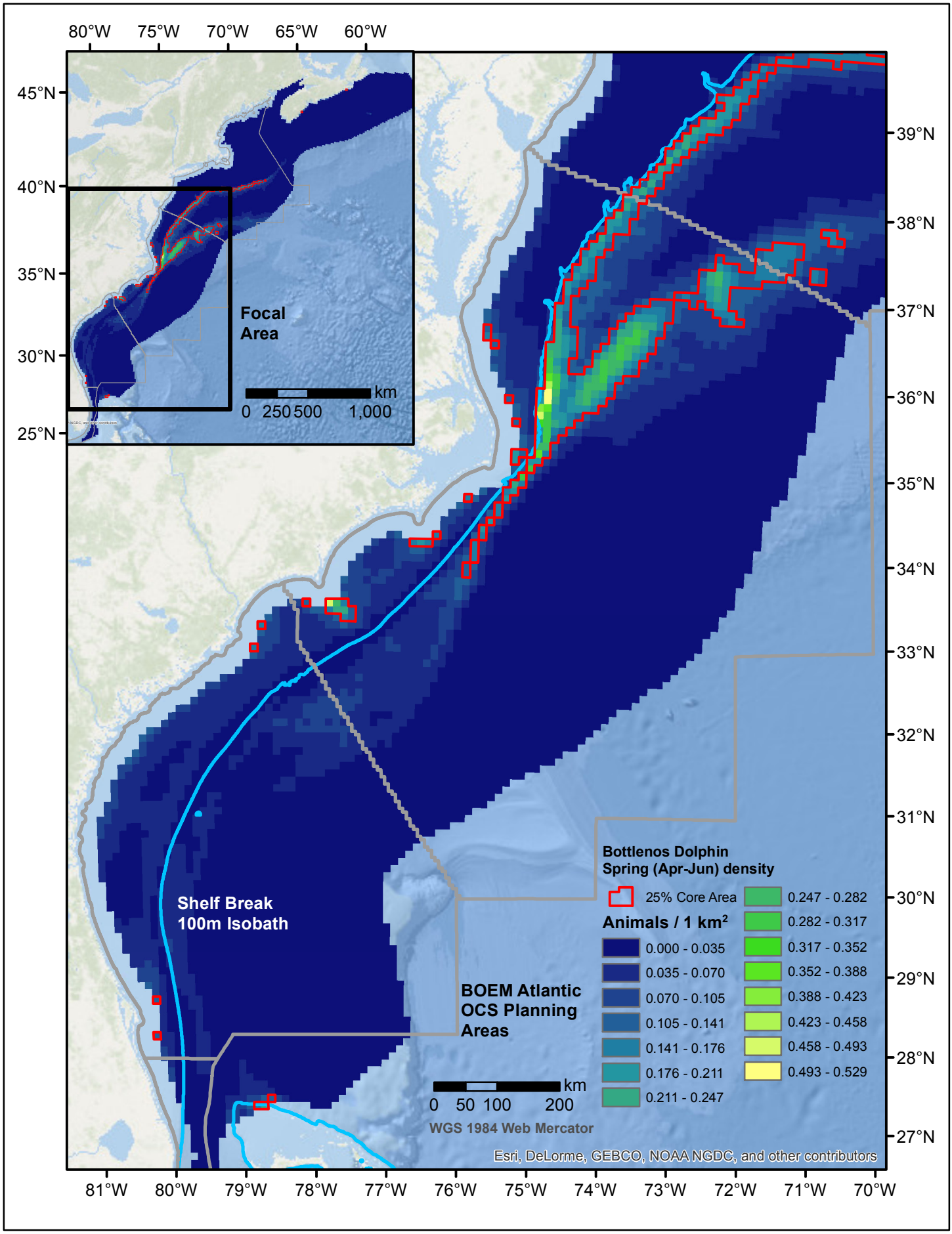

80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Atlantic White Sided Dolphin Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.042
0.042 - 0.084
0.084 - 0.126
0.126 - 0.168
0.168 - 0.210
0.210 - 0.253
0.253 - 0.295
0.295 - 0.337
0.337 - 0.379
0.379 - 0.421
0.421 - 0.463
0.463 - 0.506
0.506 - 0.548
0.548 - 0.590
0.590 - 0.632
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Atlantic White Sided Dolphin
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.018
0.018 - 0.036
0.036 - 0.055
0.055 - 0.073
0.073 - 0.092
0.092 - 0.110
0.110 - 0.129
0.129 - 0.147
0.147 - 0.165
0.165 - 0.184
0.184 - 0.202
0.202 - 0.221
0.221 - 0.239
0.239 - 0.258
0.258 - 0.276
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Beaked Whales Year-round density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.037
0.037 - 0.075
0.075 - 0.113
0.113 - 0.151
0.151 - 0.189
0.189 - 0.227
0.227 - 0.265
0.265 - 0.303
0.303 - 0.341
0.341 - 0.379
0.379 - 0.416
0.416 - 0.454
0.454 - 0.492
0.492 - 0.530
0.530 - 0.568
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Beaked whales (Ziphius and Mesoplodon spp.) Year-round density
25% Core Area
Animals / 1 km²
0 - 0.020
0.020 - 0.041
0.041 - 0.062
0.062 - 0.083
0.083 - 0.103
0.103 - 0.124
0.124 - 0.145
0.145 - 0.166
0.166 - 0.187
0.187 - 0.207
0.207 - 0.228
0.228 - 0.249
0.249 - 0.270
0.270 - 0.290
0.290 - 0.311
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Bottlenos Dolphin Fall (Oct-Dec) density
25% Core Area
Animals / 1 km²
0.000 - 0.070
0.070 - 0.141
0.141 - 0.212
0.212 - 0.283
0.283 - 0.354
0.354 - 0.424
0.424 - 0.495
0.495 - 0.566
0.566 - 0.637
0.637 - 0.708
0.708 - 0.779
0.779 - 0.849
0.849 - 0.920
0.920 - 0.991
0.991 - 1.062
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
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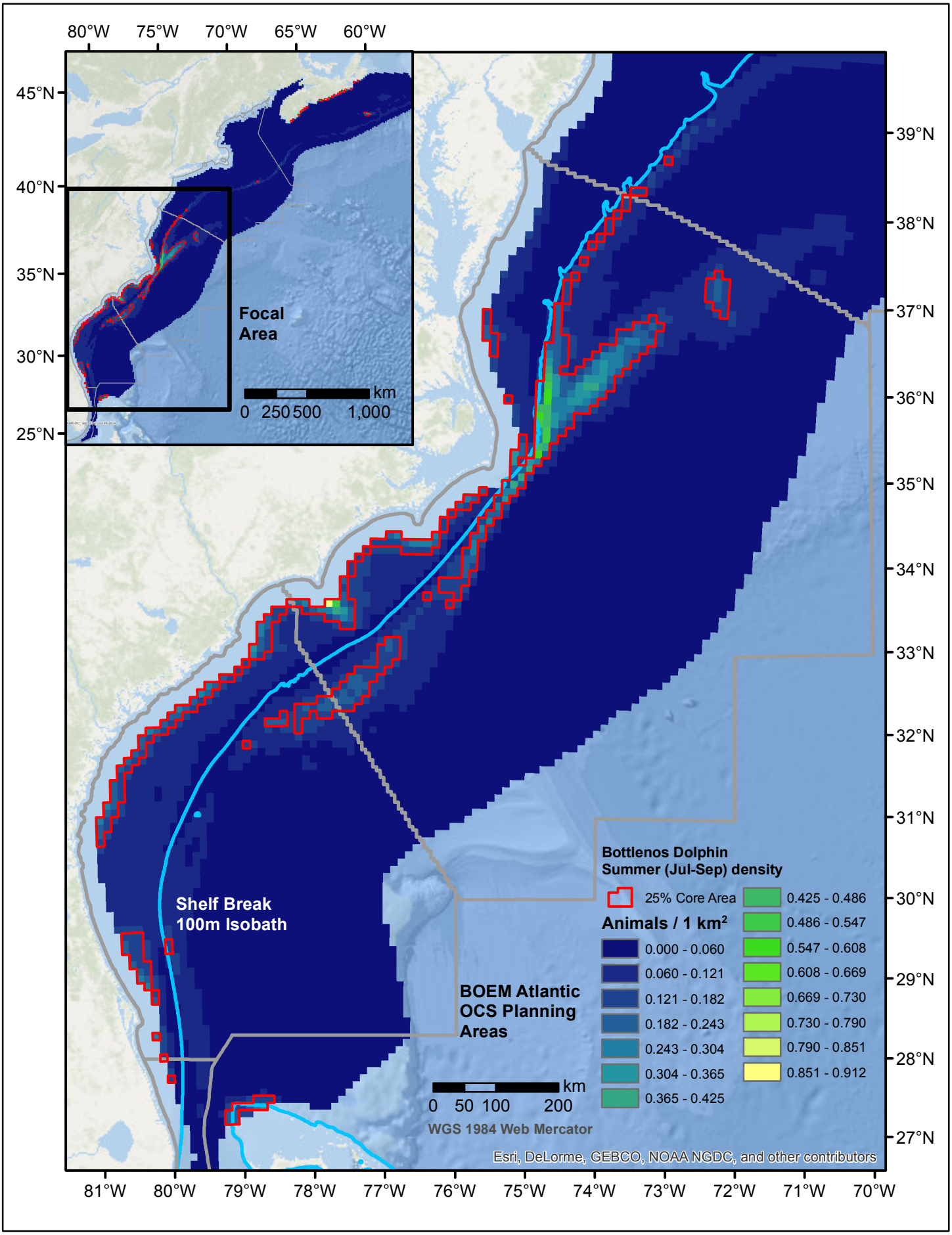
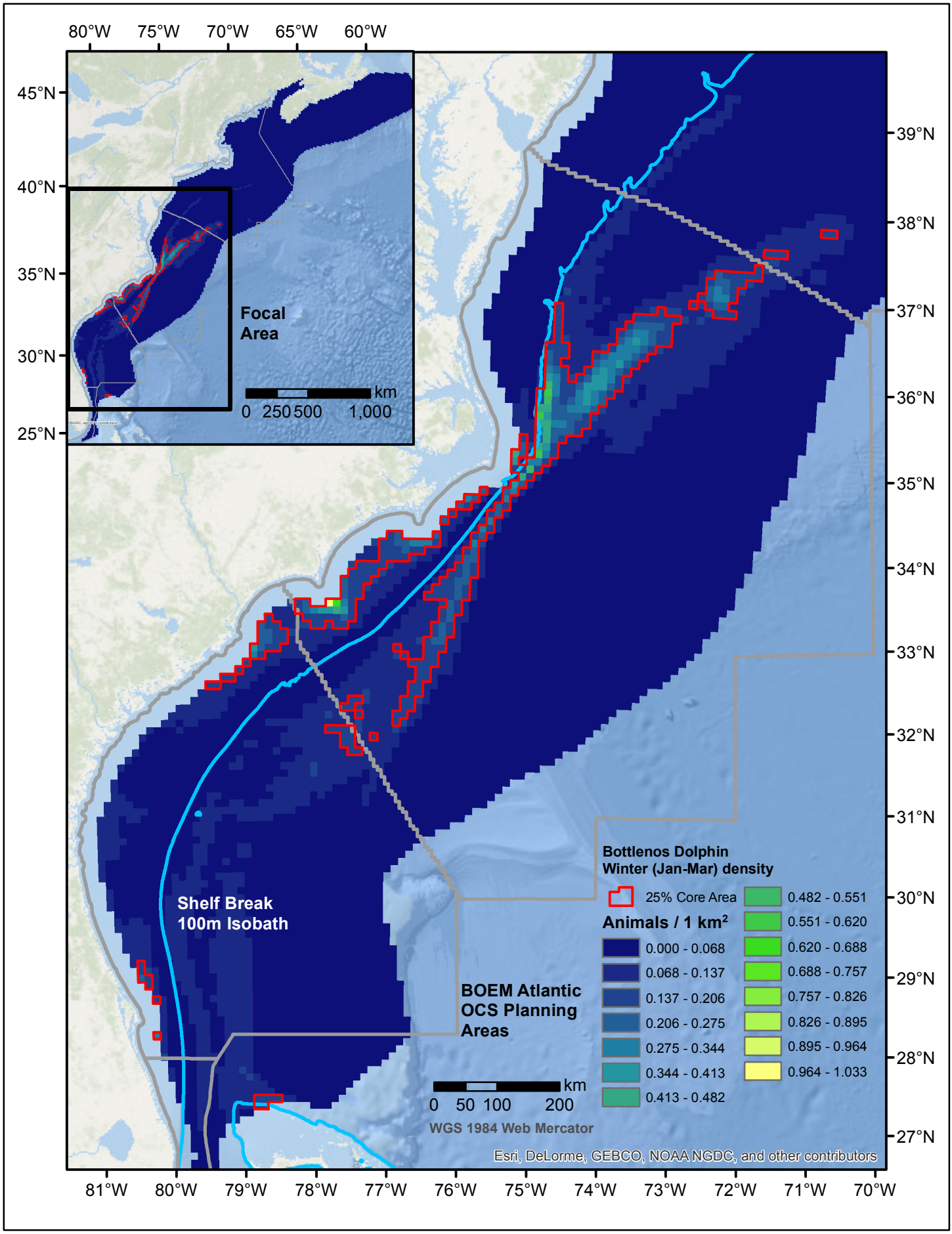
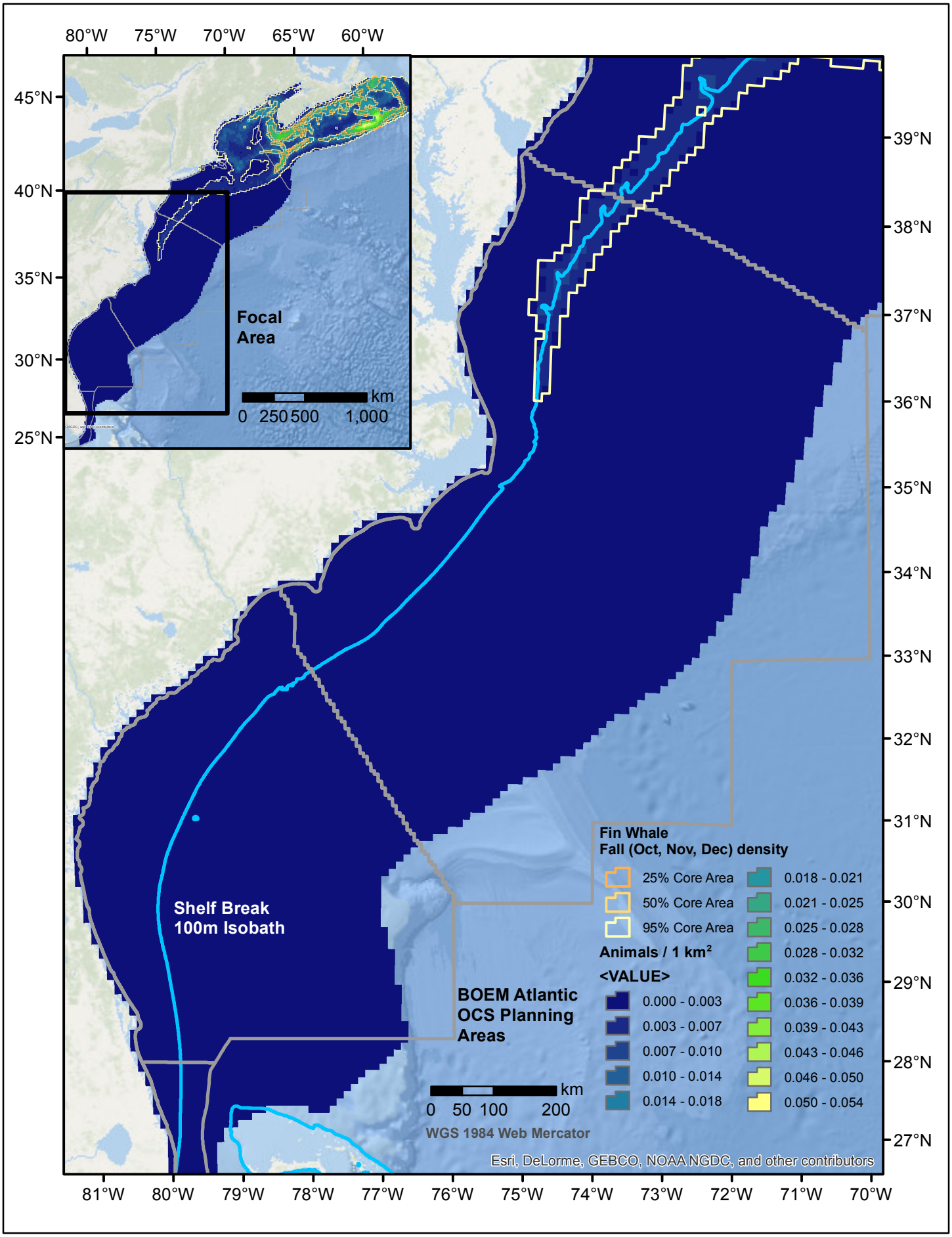
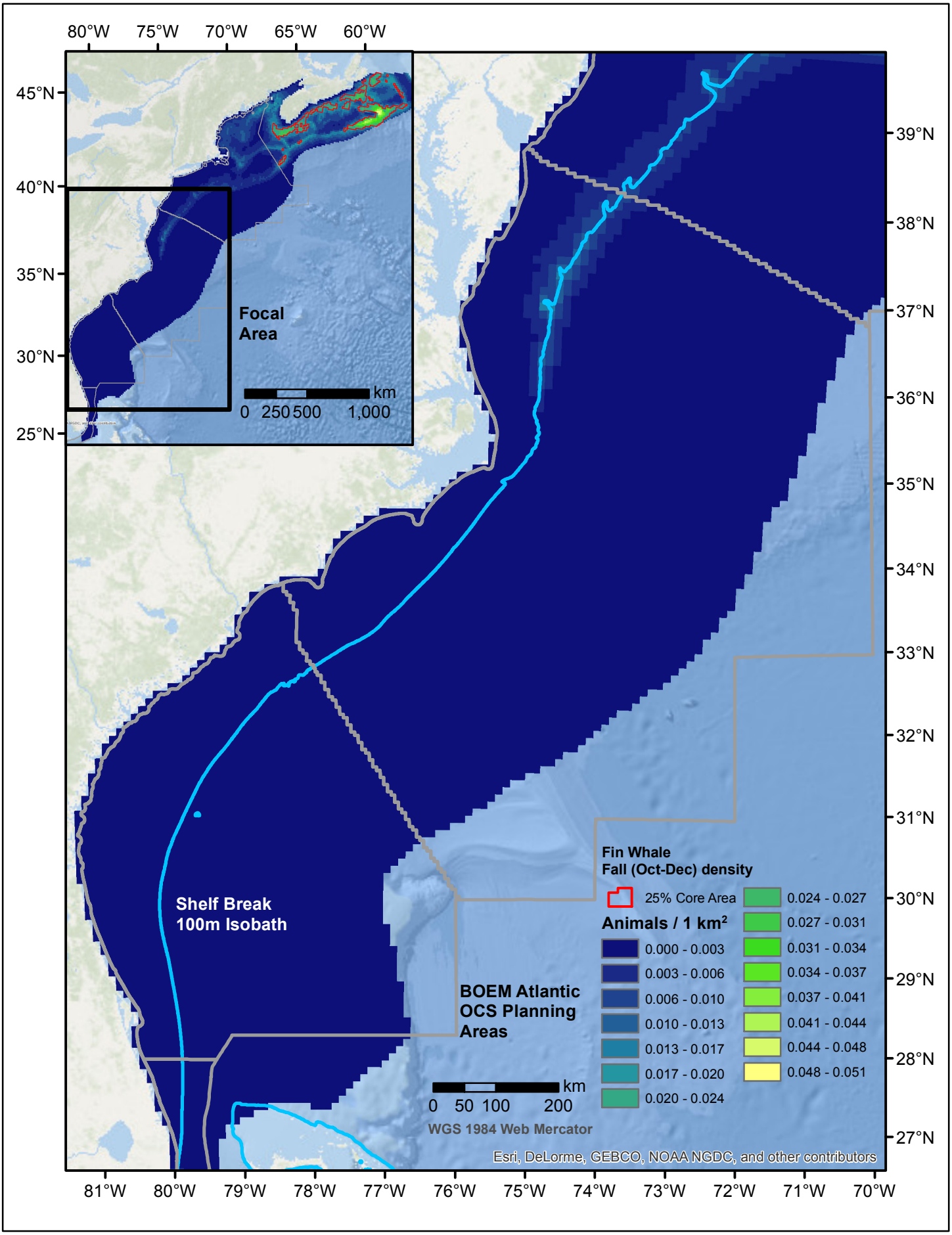
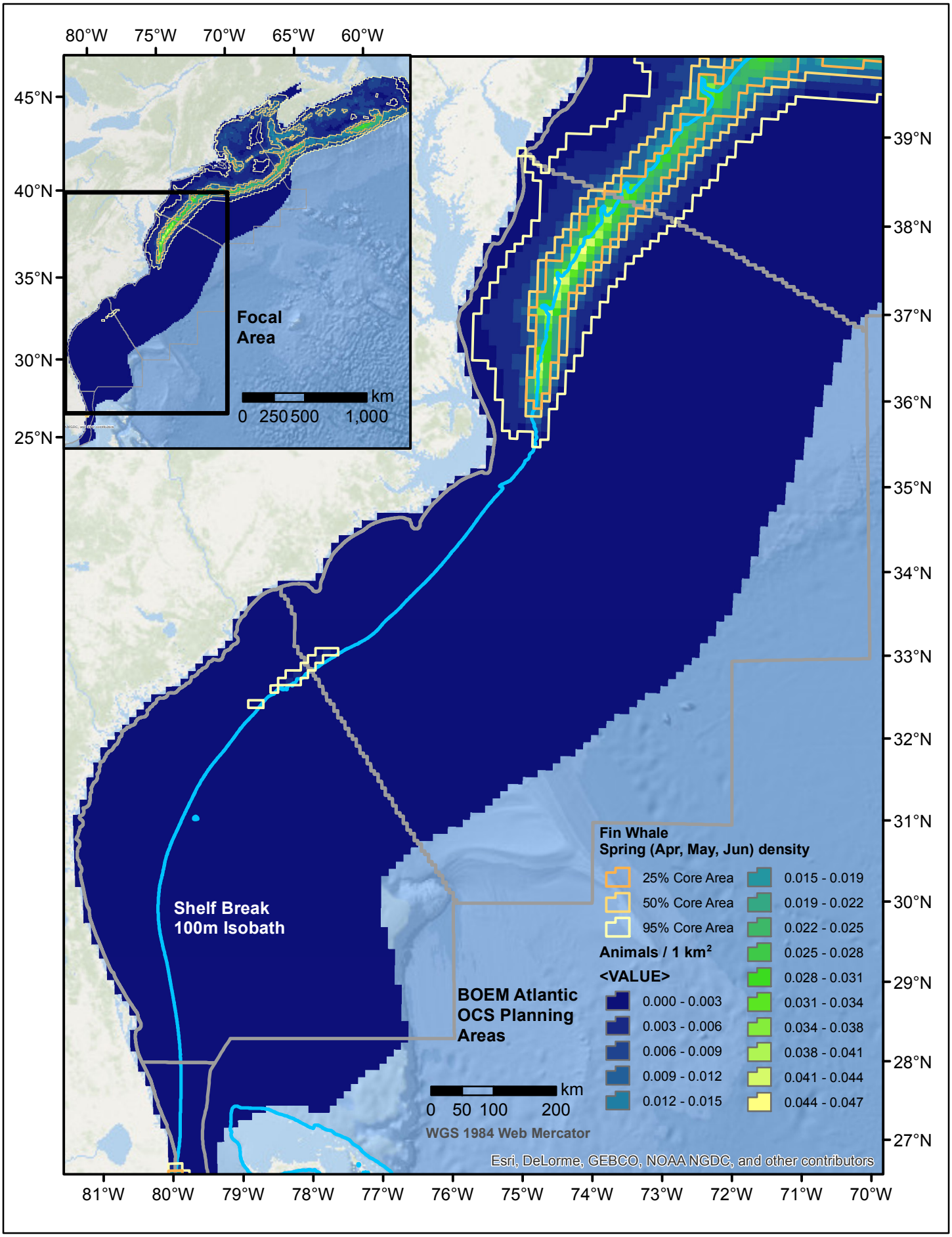
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Bottlenos Dolphin Spring (Apr-Jun) density
25% Core Area
Animals / 1 km²
0.000 - 0.035
0.035 - 0.070
0.070 - 0.105
0.105 - 0.141
0.141 - 0.176
0.176 - 0.211
0.211 - 0.247
0.247 - 0.282
0.282 - 0.317
0.317 - 0.352
0.352 - 0.388
0.388 - 0.423
0.423 - 0.458
0.458 - 0.493
0.493 - 0.529
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Bottlenos Dolphin Summer (Jul-Sep) density
25% Core Area
Animals / 1 km²
0.000 - 0.060
0.060 - 0.121
0.121 - 0.182
0.182 - 0.243
0.243 - 0.304
0.304 - 0.365
0.365 - 0.425
0.425 - 0.486
0.486 - 0.547
0.547 - 0.608
0.608 - 0.669
0.669 - 0.730
0.730 - 0.790
0.790 - 0.851
0.851 - 0.912
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Bottlenos Dolphin Winter (Jan-Mar) density
25% Core Area
Animals / 1 km²
0.000 - 0.068
0.068 - 0.137
0.137 - 0.206
0.206 - 0.275
0.275 - 0.344
0.344 - 0.413
0.413 - 0.482
0.482 - 0.551
0.551 - 0.620
0.620 - 0.688
0.688 - 0.757
0.757 - 0.826
0.826 - 0.895
0.895 - 0.964
0.964 - 1.033
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Fin Whale
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.003
0.003 - 0.007
0.007 - 0.010
0.010 - 0.014
0.014 - 0.018
0.018 - 0.021
0.021 - 0.025
0.025 - 0.028
0.028 - 0.032
0.032 - 0.036
0.036 - 0.039
0.039 - 0.043
0.043 - 0.046
0.046 - 0.050
0.050 - 0.054
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Fin Whale
Fall (Oct-Dec) density
25% Core Area
Animals / 1 km²
0.000 - 0.003
0.003 - 0.006
0.006 - 0.010
0.010 - 0.013
0.013 - 0.017
0.017 - 0.020
0.020 - 0.024
0.024 - 0.027
0.027 - 0.031
0.031 - 0.034
0.034 - 0.037
0.037 - 0.041
0.041 - 0.044
0.044 - 0.048
0.048 - 0.051
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W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70°W
65°W
60°W
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40°N
35°N
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25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Fin Whale
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.003
0.003 - 0.006
0.006 - 0.009
0.009 - 0.012
0.012 - 0.015
0.015 - 0.019
0.019 - 0.022
0.022 - 0.025
0.025 - 0.028
0.028 - 0.031
0.031 - 0.034
0.034 - 0.038
0.038 - 0.041
0.041 - 0.044
0.044 - 0.047
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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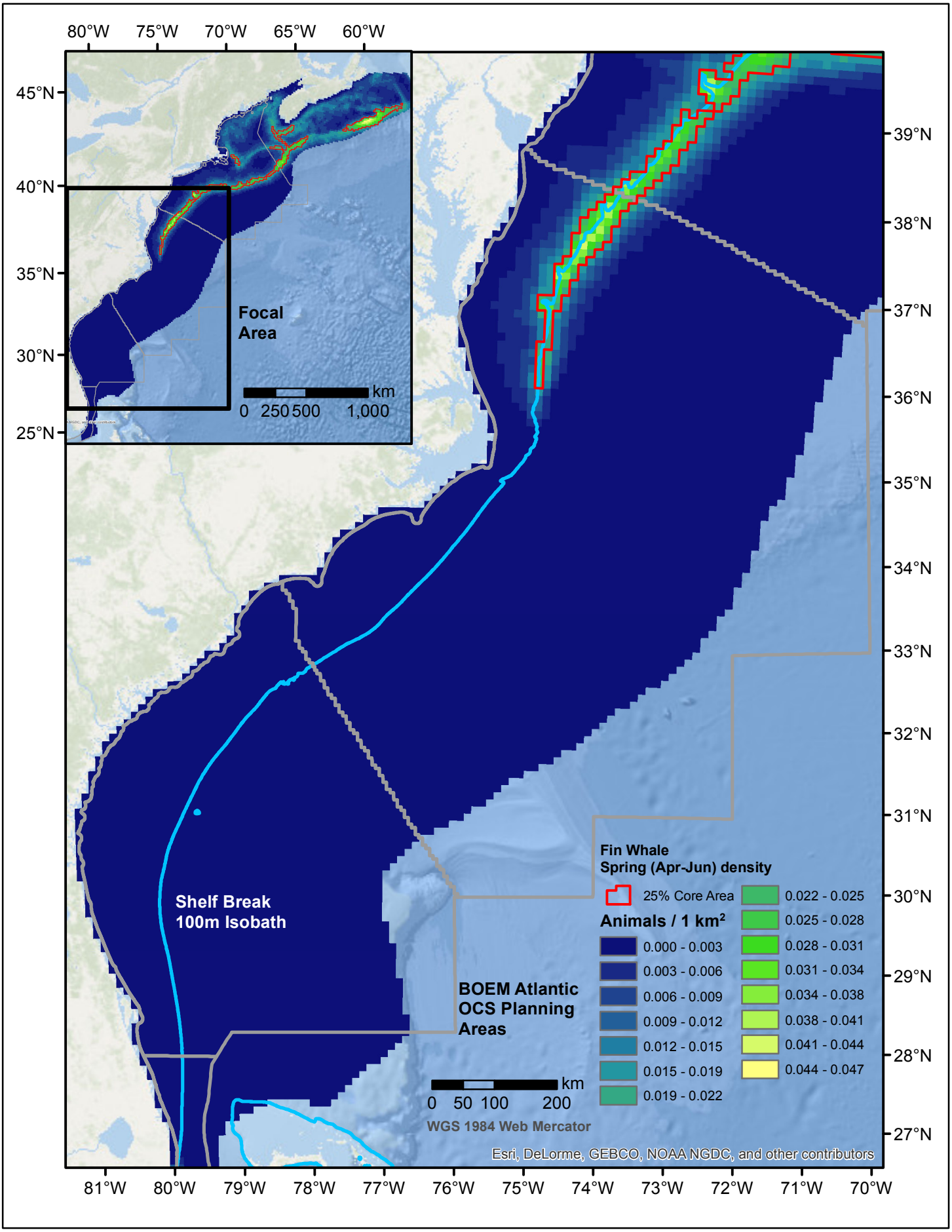
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45°N
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25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Fin Whale
Spring (Apr-Jun) density
25% Core Area
Animals / 1 km²
0.000 - 0.003
0.003 - 0.006
0.006 - 0.009
0.009 - 0.012
0.012 - 0.015
0.015 - 0.019
0.019 - 0.022
0.022 - 0.025
0.025 - 0.028
0.028 - 0.031
0.031 - 0.034
0.034 - 0.038
0.038 - 0.041
0.041 - 0.044
0.044 - 0.047
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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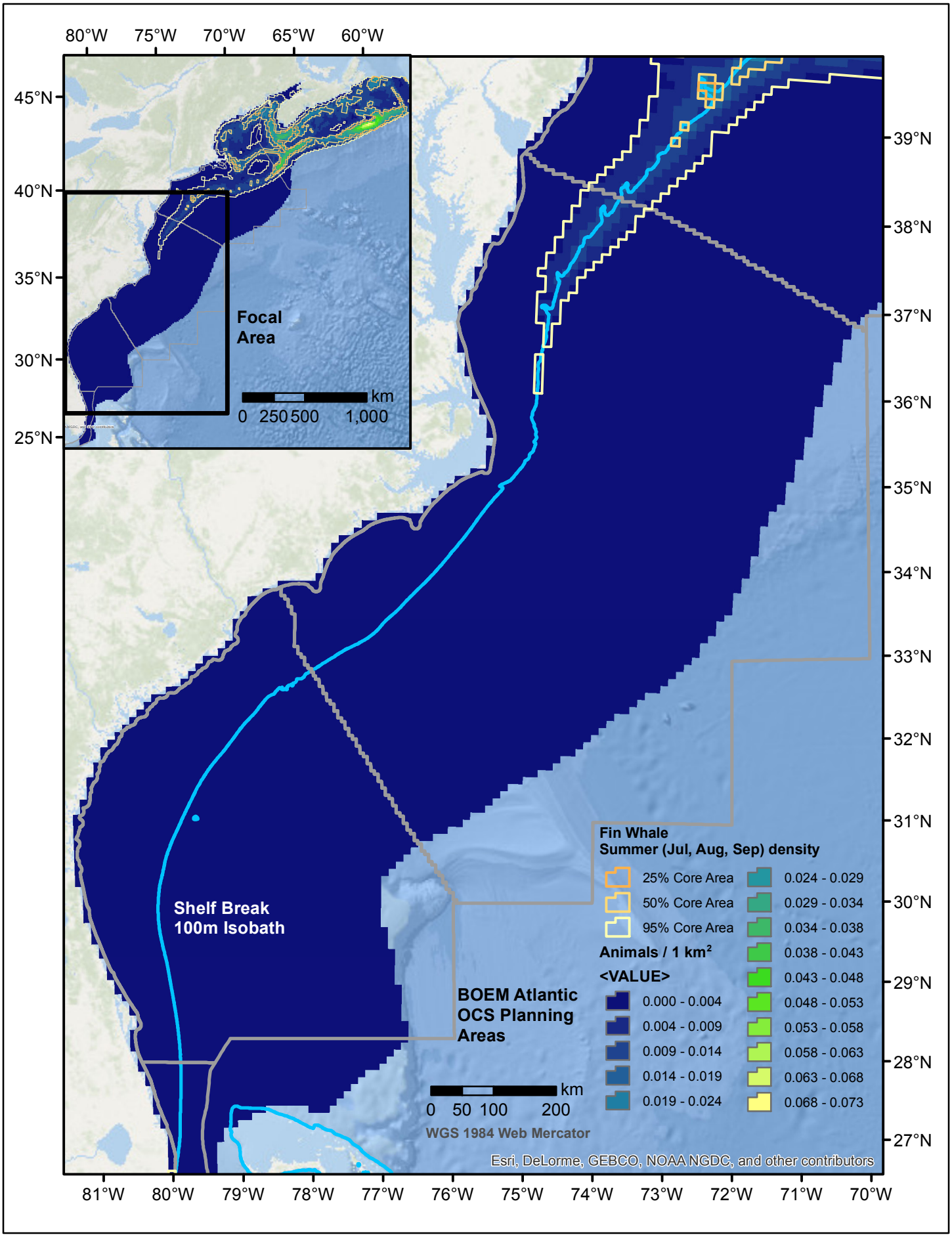
70°W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75°W
70°W
65°W
60°W
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40°N
35°N
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25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Fin Whale
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.004
0.004 - 0.009
0.009 - 0.014
0.014 - 0.019
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0.029 - 0.034
0.034 - 0.038
0.038 - 0.043
0.043 - 0.048
0.048 - 0.053
0.053 - 0.058
0.058 - 0.063
0.063 - 0.068
0.068 - 0.073
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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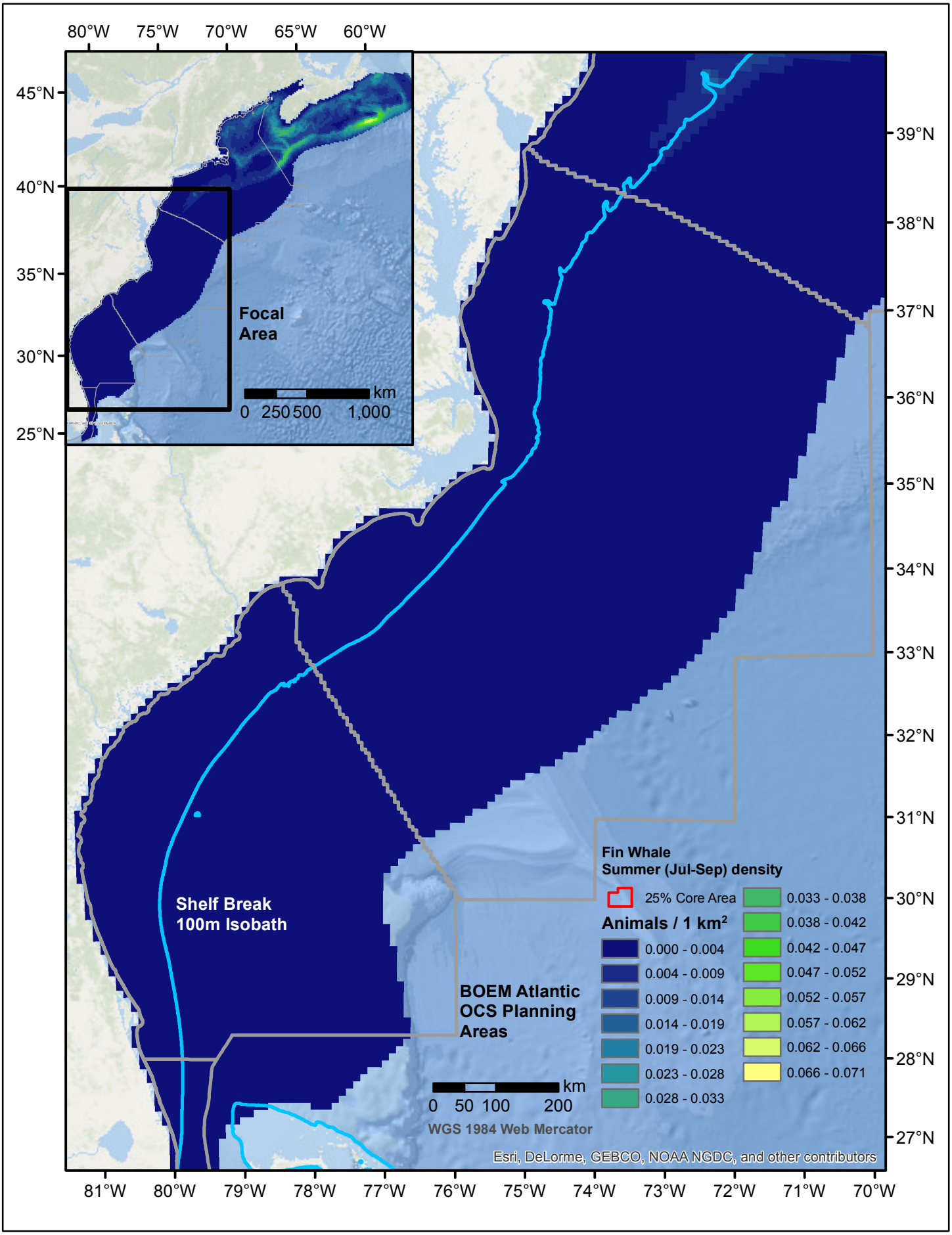
72°W
71°W
70°W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70°W
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45°N
40°N
35°N
30°N
25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
Fin Whale
Summer (Jul-Sep) density
25% Core Area
Animals / 1 km²
0.000 - 0.004
0.004 - 0.009
0.009 - 0.014
0.014 - 0.019
0.019 - 0.023
0.023 - 0.028
0.028 - 0.033
0.033 - 0.038
0.038 - 0.042
0.042 - 0.047
0.047 - 0.052
0.052 - 0.057
0.057 - 0.062
0.062 - 0.066
0.066 - 0.071
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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74°W
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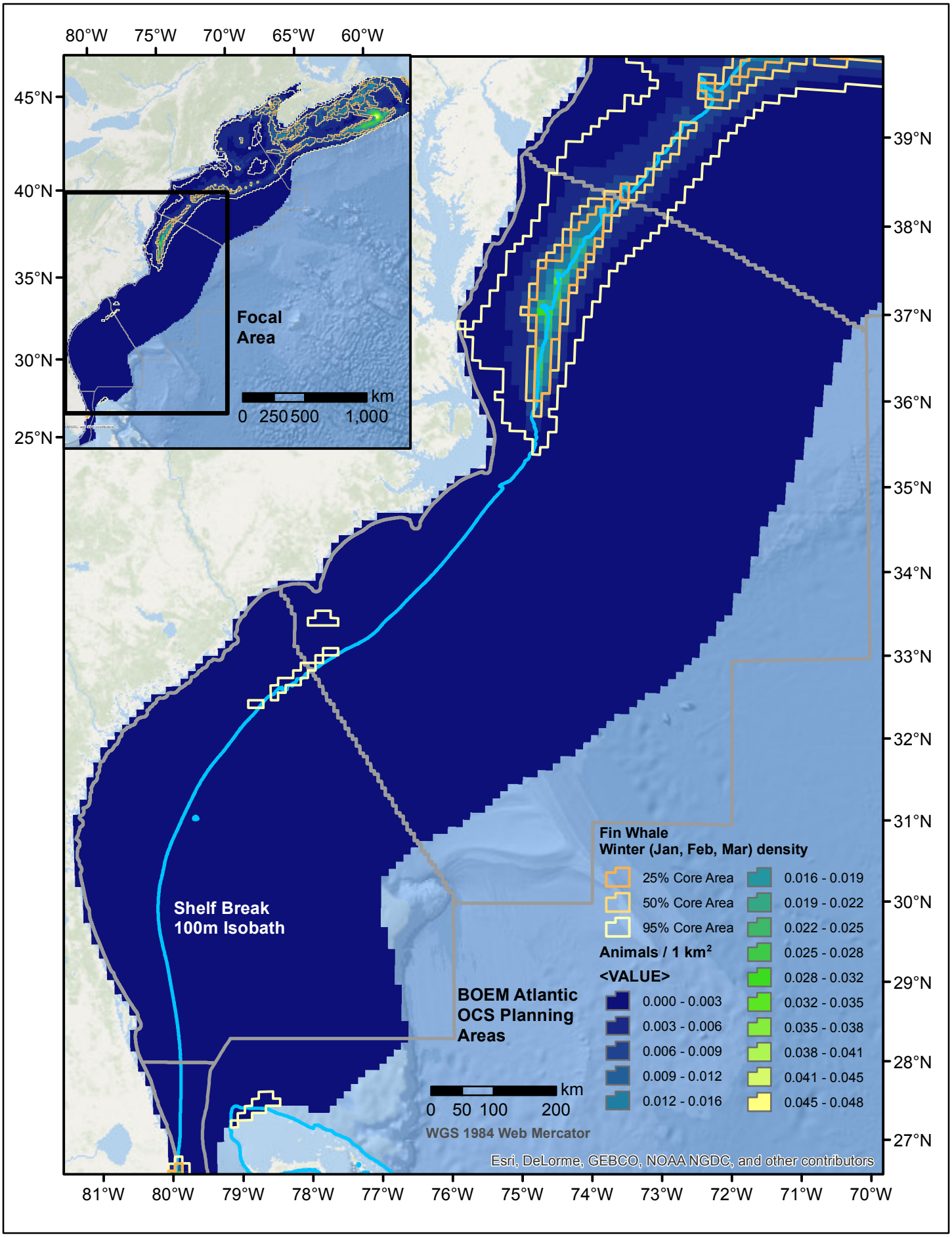
72°W
71°W
70°W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45°N
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Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Fin Whale
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.003
0.003 - 0.006
0.006 - 0.009
0.009 - 0.012
0.012 - 0.016
0.016 - 0.019
0.019 - 0.022
0.022 - 0.025
0.025 - 0.028
0.028 - 0.032
0.032 - 0.035
0.035 - 0.038
0.038 - 0.041
0.041 - 0.045
0.045 - 0.048
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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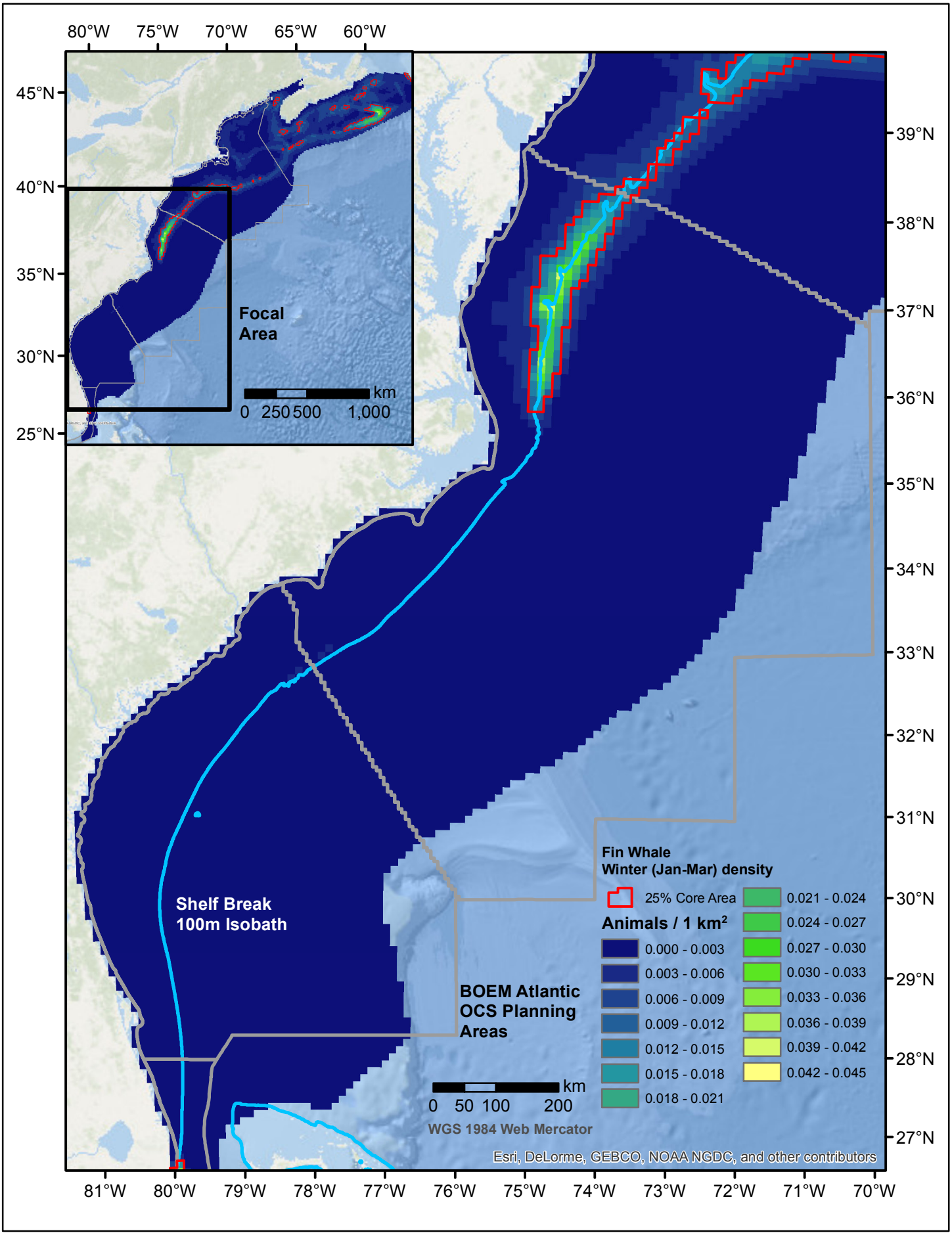
70°W


80°W
75°W
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60°W
45°N
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25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Fin Whale
Winter (Jan-Mar) density
25% Core Area
Animals / 1 km²
0.000 - 0.003
0.003 - 0.006
0.006 - 0.009
0.009 - 0.012
0.012 - 0.015
0.015 - 0.018
0.018 - 0.021
0.021 - 0.024
0.024 - 0.027
0.027 - 0.030
0.030 - 0.033
0.033 - 0.036
0.036 - 0.039
0.039 - 0.042
0.042 - 0.045
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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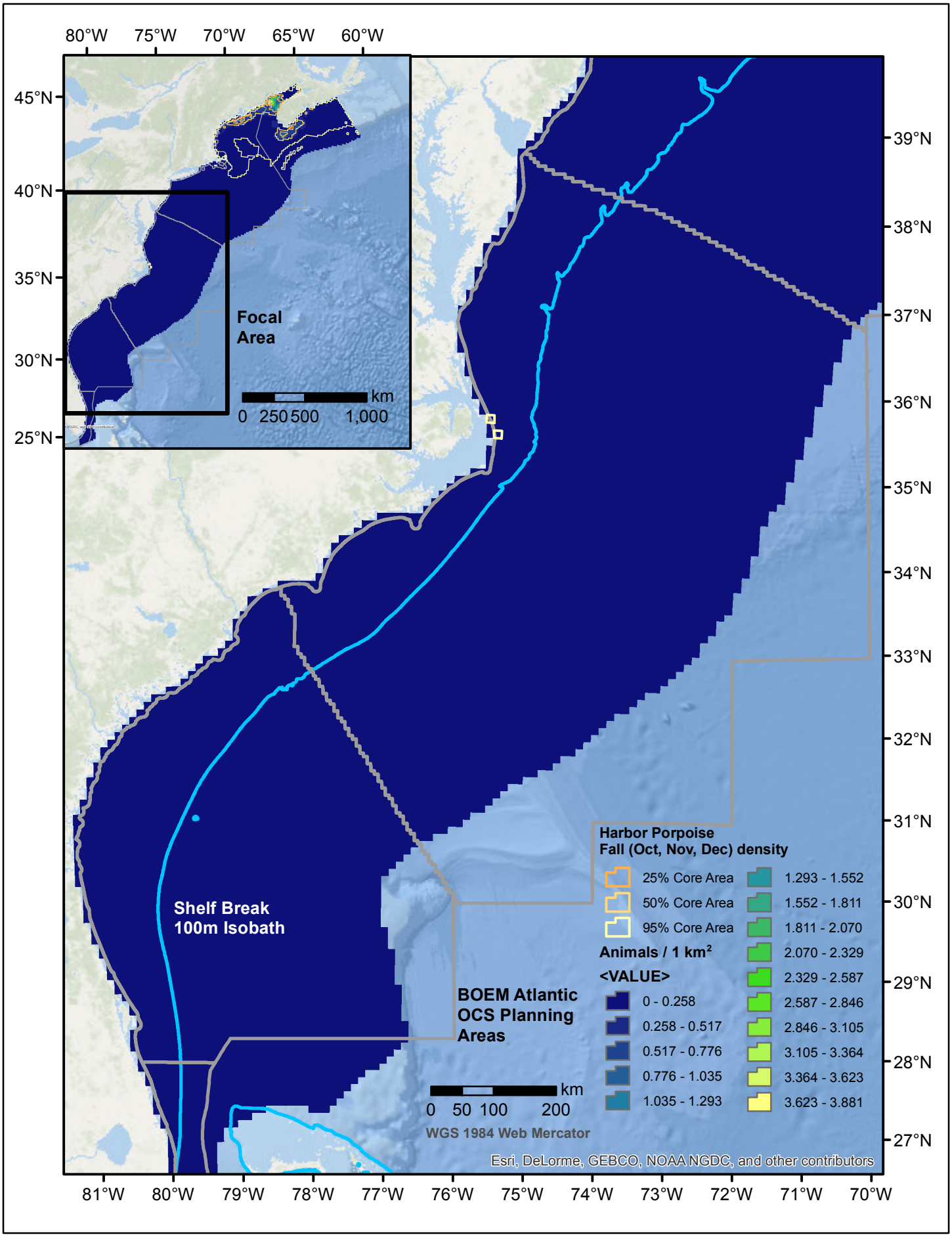
80°W
75°W
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60°W
45°N
40°N
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25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Harbor Porpoise
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.258
0.258 - 0.517
0.517 - 0.776
0.776 - 1.035
1.035 - 1.293
1.293 - 1.552
1.552 - 1.811
1.811 - 2.070
2.070 - 2.329
2.329 - 2.587
2.587 - 2.846
2.846 - 3.105
3.105 - 3.364
3.364 - 3.623
3.623 - 3.881
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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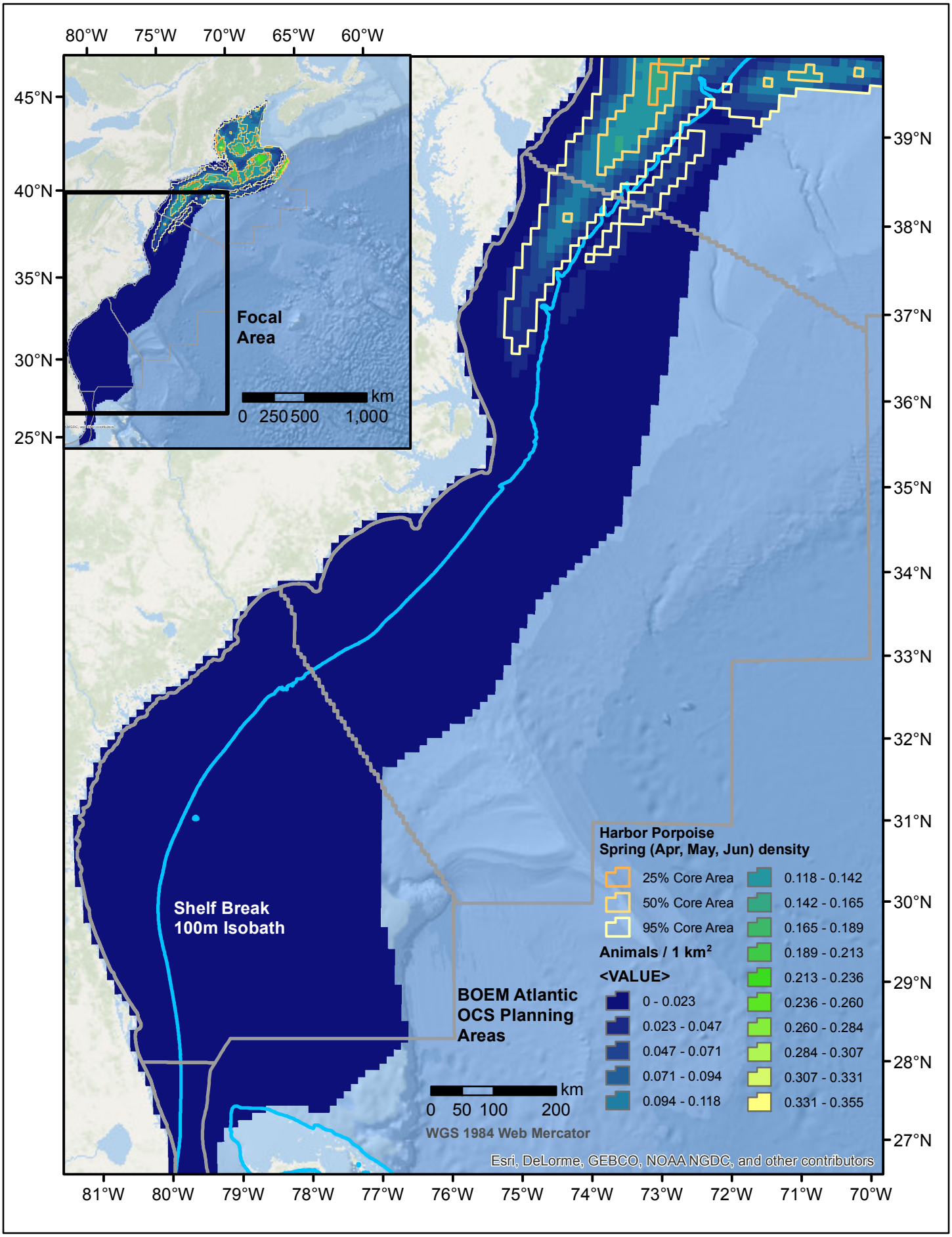
80°W
75°W
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60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Harbor Porpoise
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.023
0.023 - 0.047
0.047 - 0.071
0.071 - 0.094
0.094 - 0.118
0.118 - 0.142
0.142 - 0.165
0.165 - 0.189
0.189 - 0.213
0.213 - 0.236
0.236 - 0.260
0.260 - 0.284
0.284 - 0.307
0.307 - 0.331
0.331 - 0.355
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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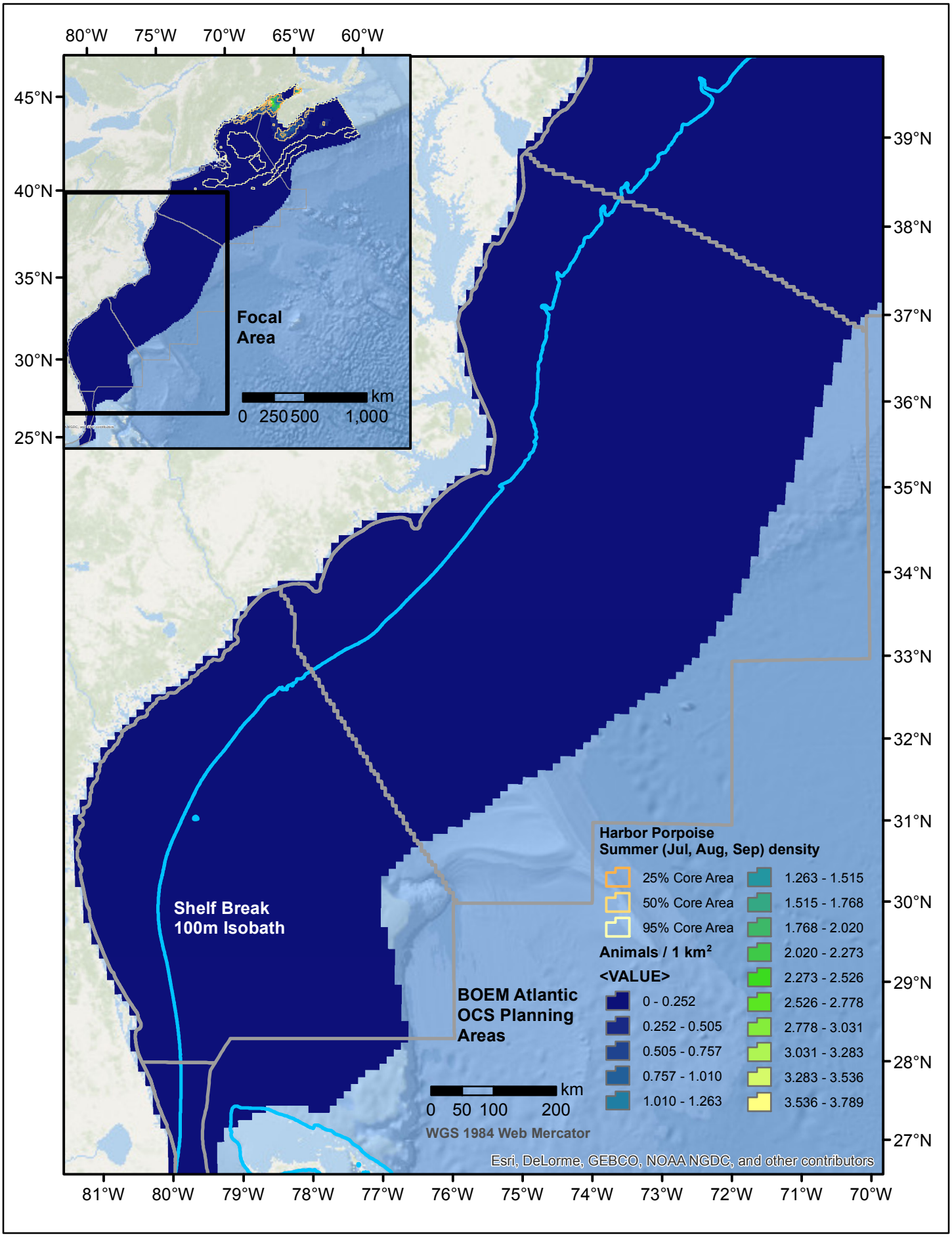
71°W
70°W


80°W
75°W
70°W
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60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Harbor Porpoise
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
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0.252 - 0.505
0.505 - 0.757
0.757 - 1.010
1.010 - 1.263
1.263 - 1.515
1.515 - 1.768
1.768 - 2.020
2.020 - 2.273
2.273 - 2.526
2.526 - 2.778
2.778 - 3.031
3.031 - 3.283
3.283 - 3.536
3.536 - 3.789
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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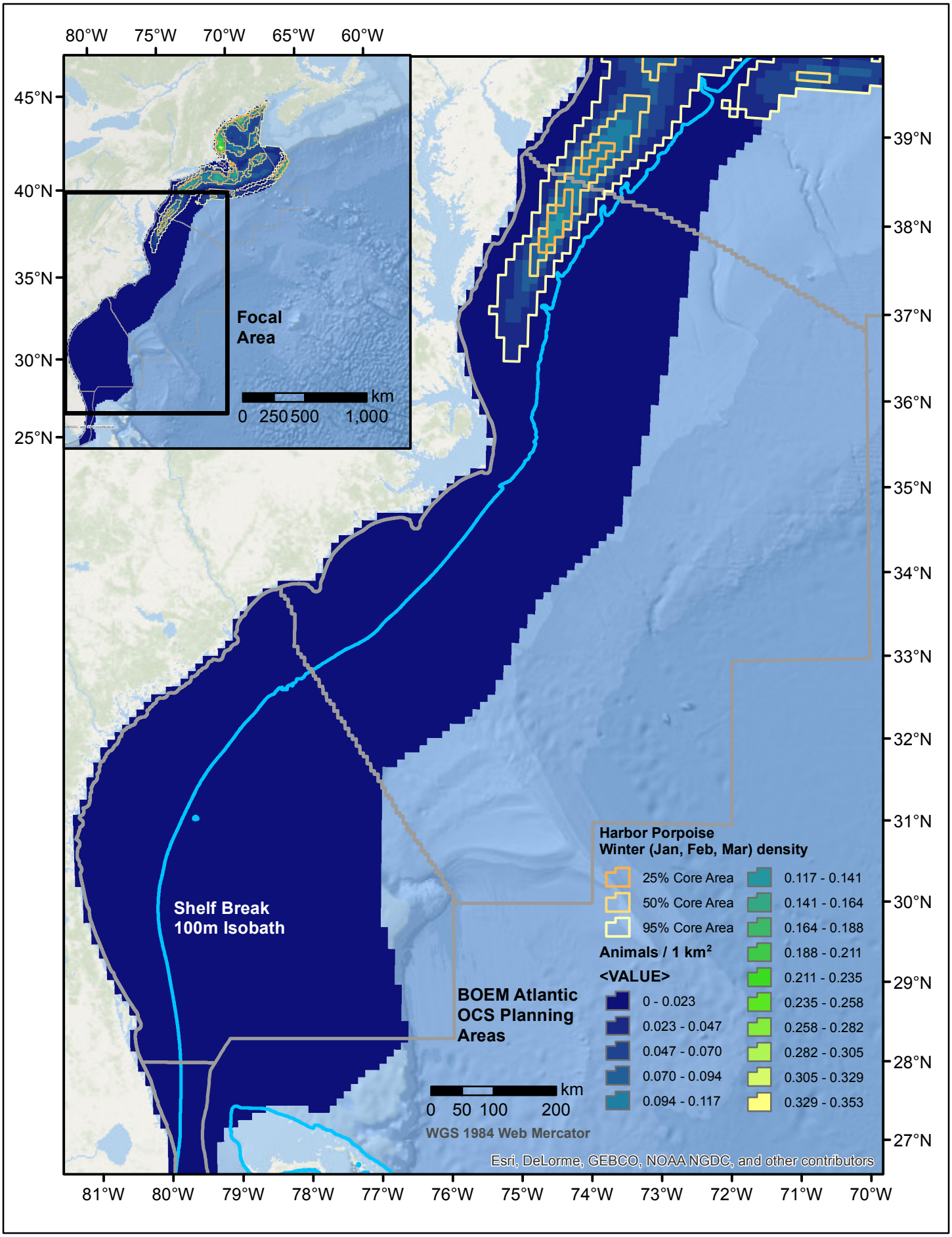
70°W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30°N
25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Harbor Porpoise
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.023
0.023 - 0.047
0.047 - 0.070
0.070 - 0.094
0.094 - 0.117
0.117 - 0.141
0.141 - 0.164
0.164 - 0.188
0.188 - 0.211
0.211 - 0.235
0.235 - 0.258
0.258 - 0.282
0.282 - 0.305
0.305 - 0.329
0.329 - 0.353
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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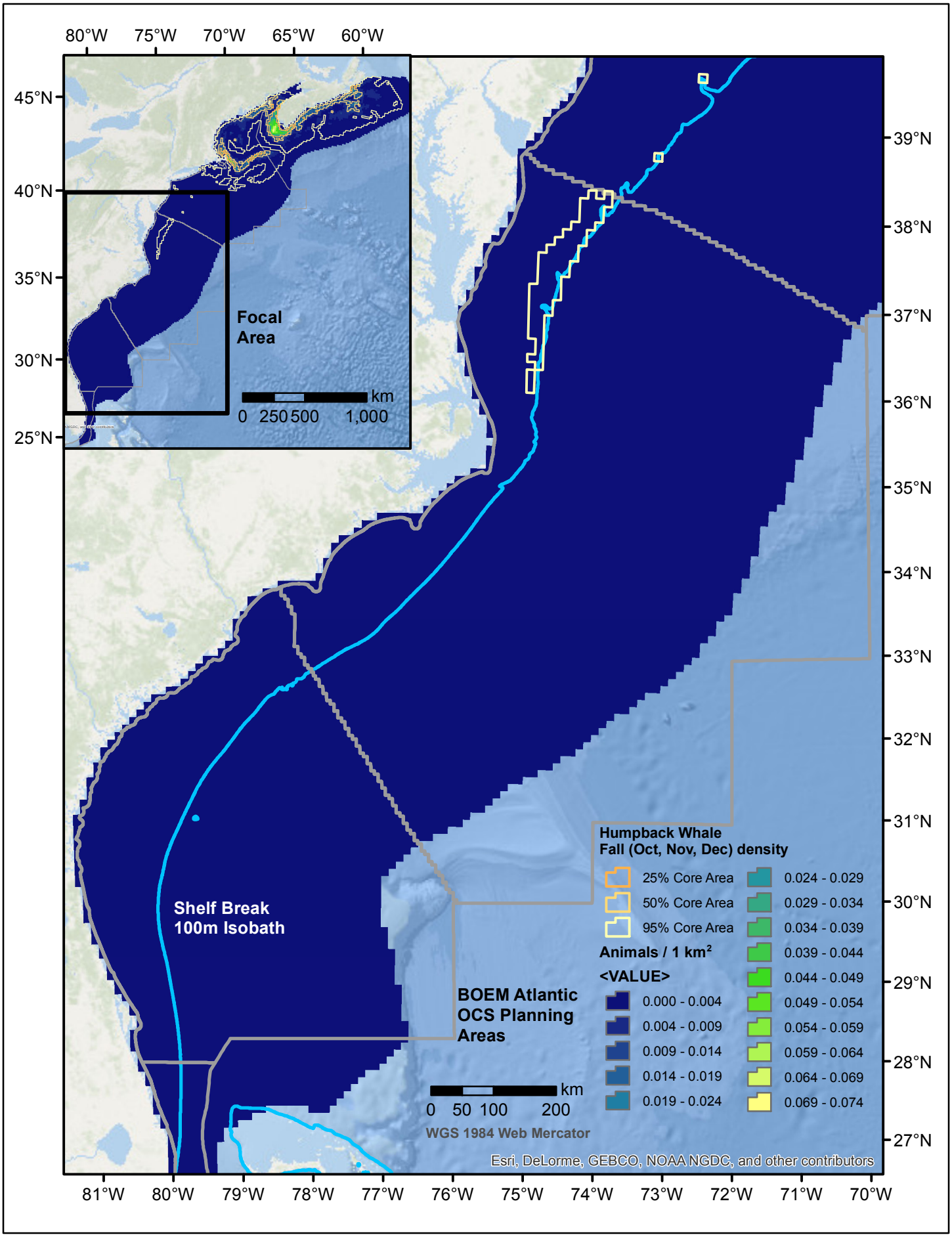
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Humpback Whale
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.004
0.004 - 0.009
0.009 - 0.014
0.014 - 0.019
0.019 - 0.024
0.024 - 0.029
0.029 - 0.034
0.034 - 0.039
0.039 - 0.044
0.044 - 0.049
0.049 - 0.054
0.054 - 0.059
0.059 - 0.064
0.064 - 0.069
0.069 - 0.074
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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74°W
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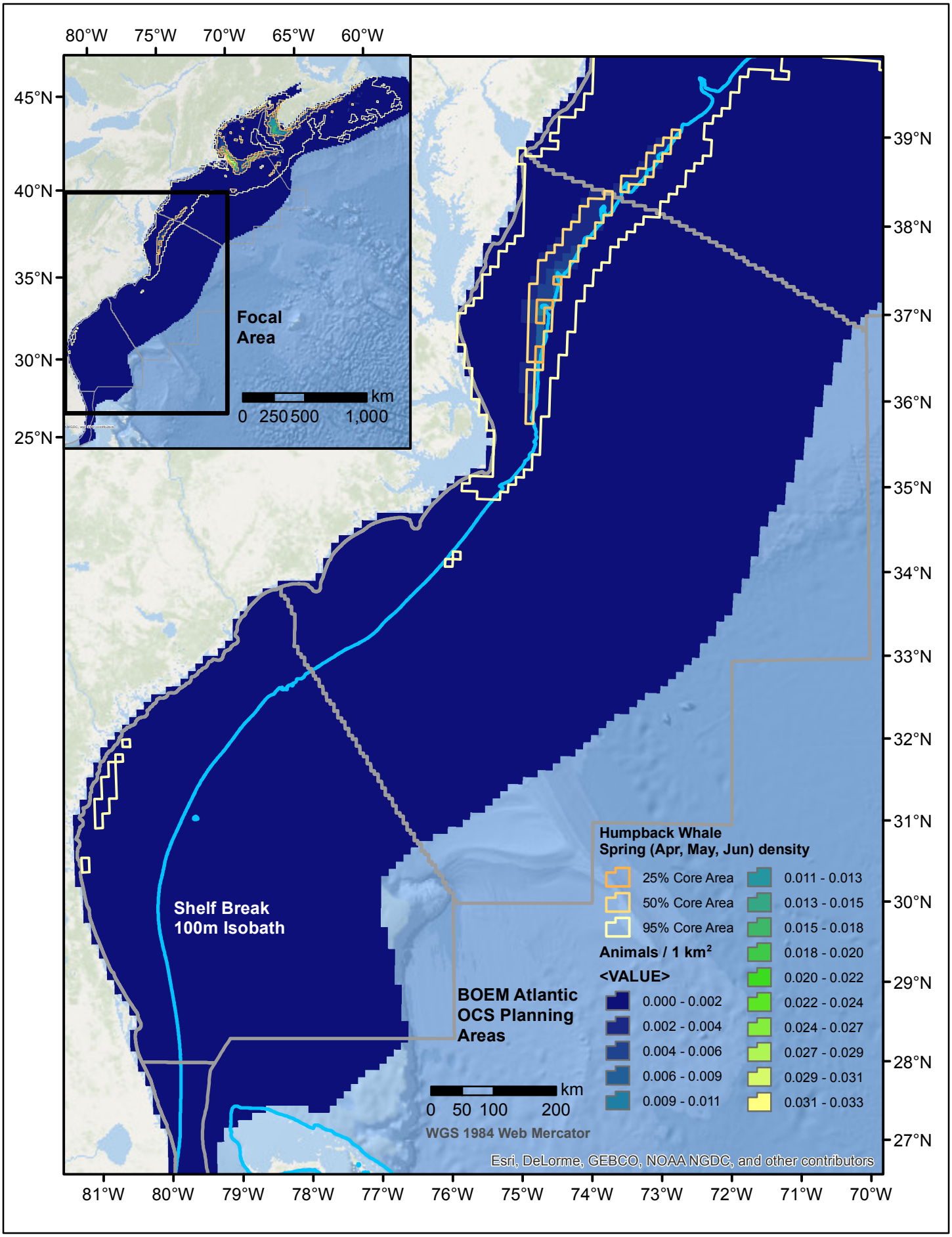
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Humpback Whale
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.002
0.002 - 0.004
0.004 - 0.006
0.006 - 0.009
0.009 - 0.011
0.011 - 0.013
0.013 - 0.015
0.015 - 0.018
0.018 - 0.020
0.020 - 0.022
0.022 - 0.024
0.024 - 0.027
0.027 - 0.029
0.029 - 0.031
0.031 - 0.033
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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80°W
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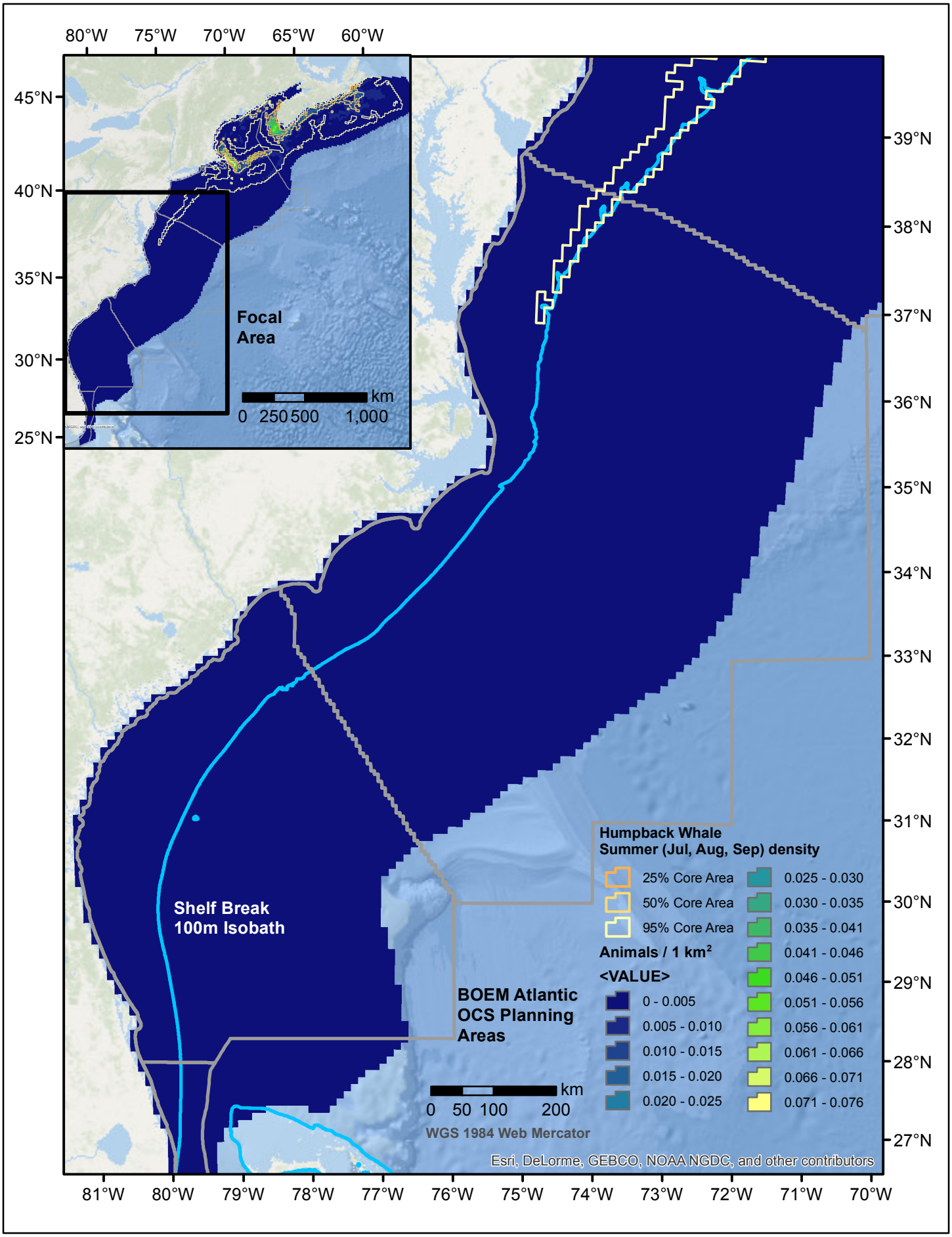
80°W
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65°W
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45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Humpback Whale
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.005
0.005 - 0.010
0.010 - 0.015
0.015 - 0.020
0.020 - 0.025
0.025 - 0.030
0.030 - 0.035
0.035 - 0.041
0.041 - 0.046
0.046 - 0.051
0.051 - 0.056
0.056 - 0.061
0.061 - 0.066
0.066 - 0.071
0.071 - 0.076
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
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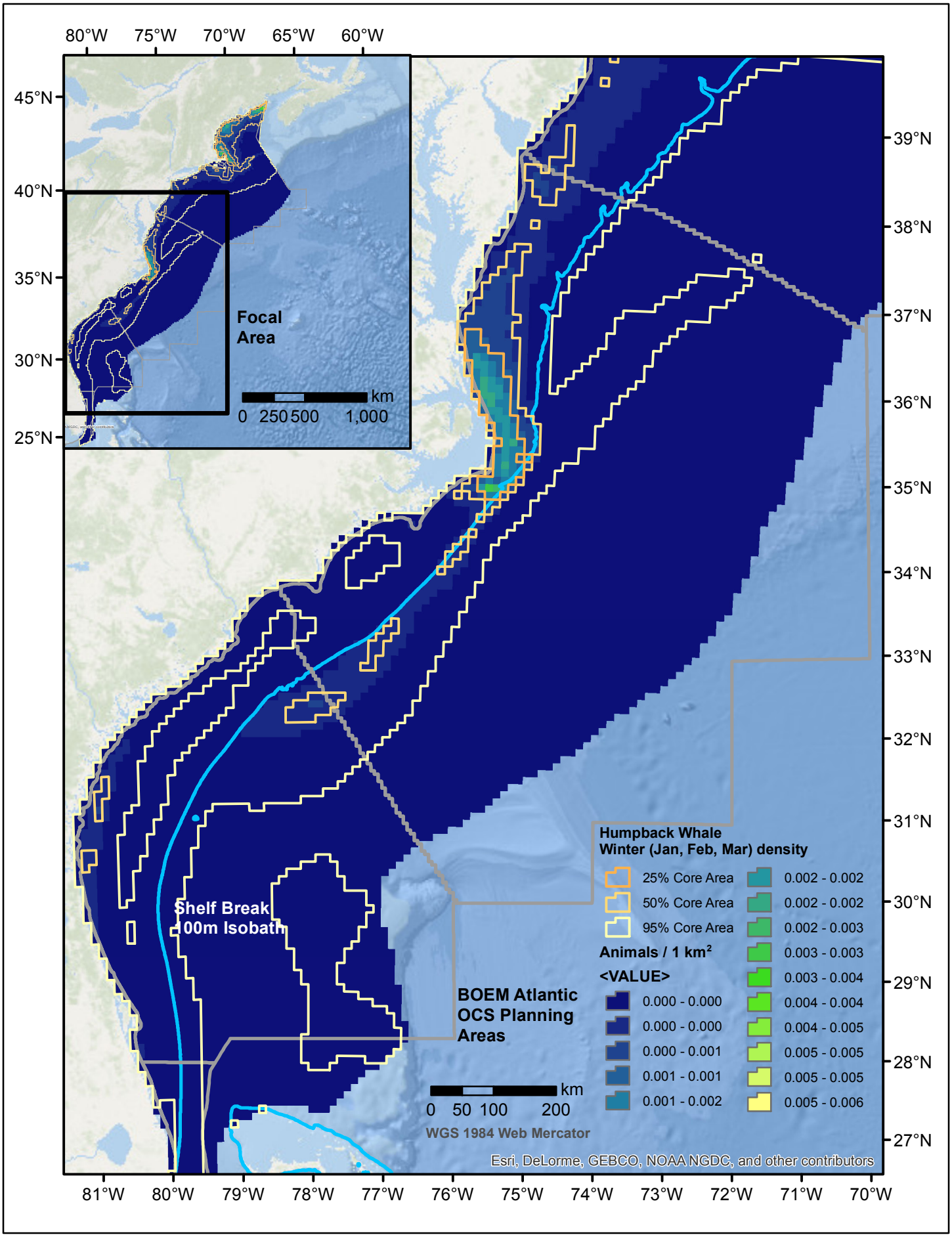
80°W
75°W
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45°N
40°N
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25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Humpback Whale
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.000
0.000 - 0.000
0.000 - 0.001
0.001 - 0.001
0.001 - 0.002
0.002 - 0.002
0.002 - 0.002
0.002 - 0.003
0.003 - 0.003
0.003 - 0.004
0.004 - 0.004
0.004 - 0.005
0.005 - 0.005
0.005 - 0.005
0.005 - 0.006
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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76°W
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74°W
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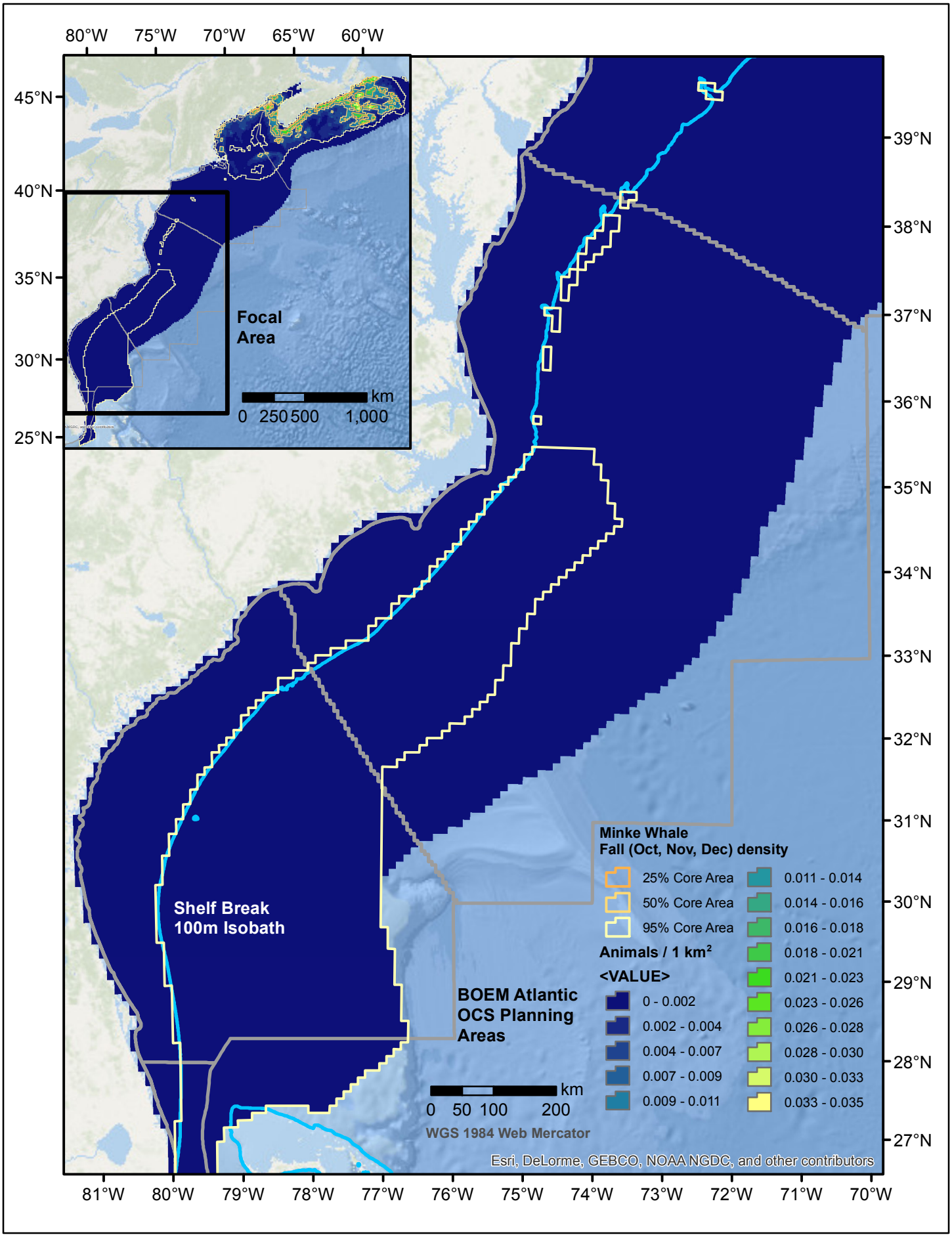
80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Minke Whale
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.002
0.002 - 0.004
0.004 - 0.007
0.007 - 0.009
0.009 - 0.011
0.011 - 0.014
0.014 - 0.016
0.016 - 0.018
0.018 - 0.021
0.021 - 0.023
0.023 - 0.026
0.026 - 0.028
0.028 - 0.030
0.030 - 0.033
0.033 - 0.035
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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71°W
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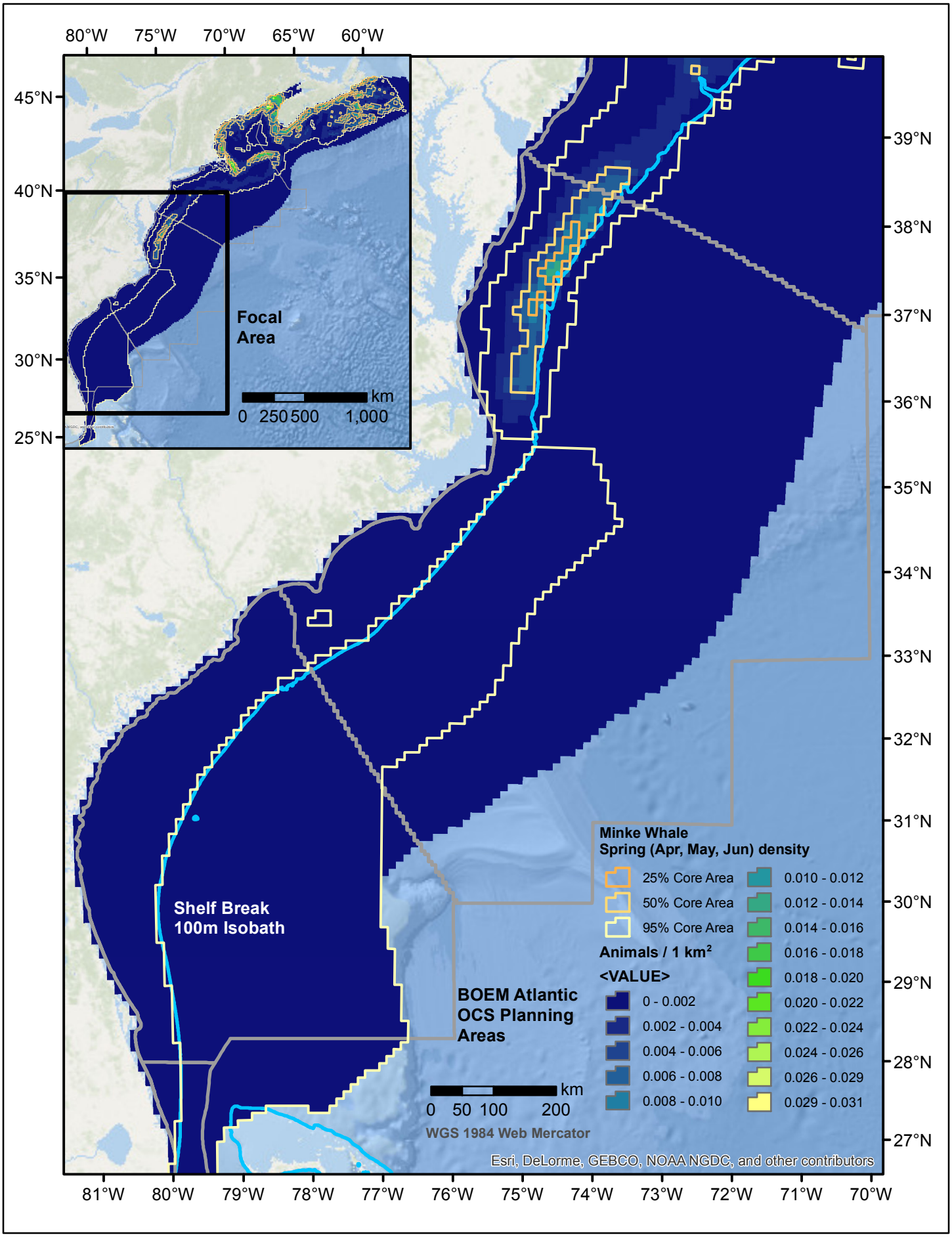
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60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Minke Whale
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.002
0.002 - 0.004
0.004 - 0.006
0.006 - 0.008
0.008 - 0.010
0.010 - 0.012
0.012 - 0.014
0.014 - 0.016
0.016 - 0.018
0.018 - 0.020
0.020 - 0.022
0.022 - 0.024
0.024 - 0.026
0.026 - 0.029
0.029 - 0.031
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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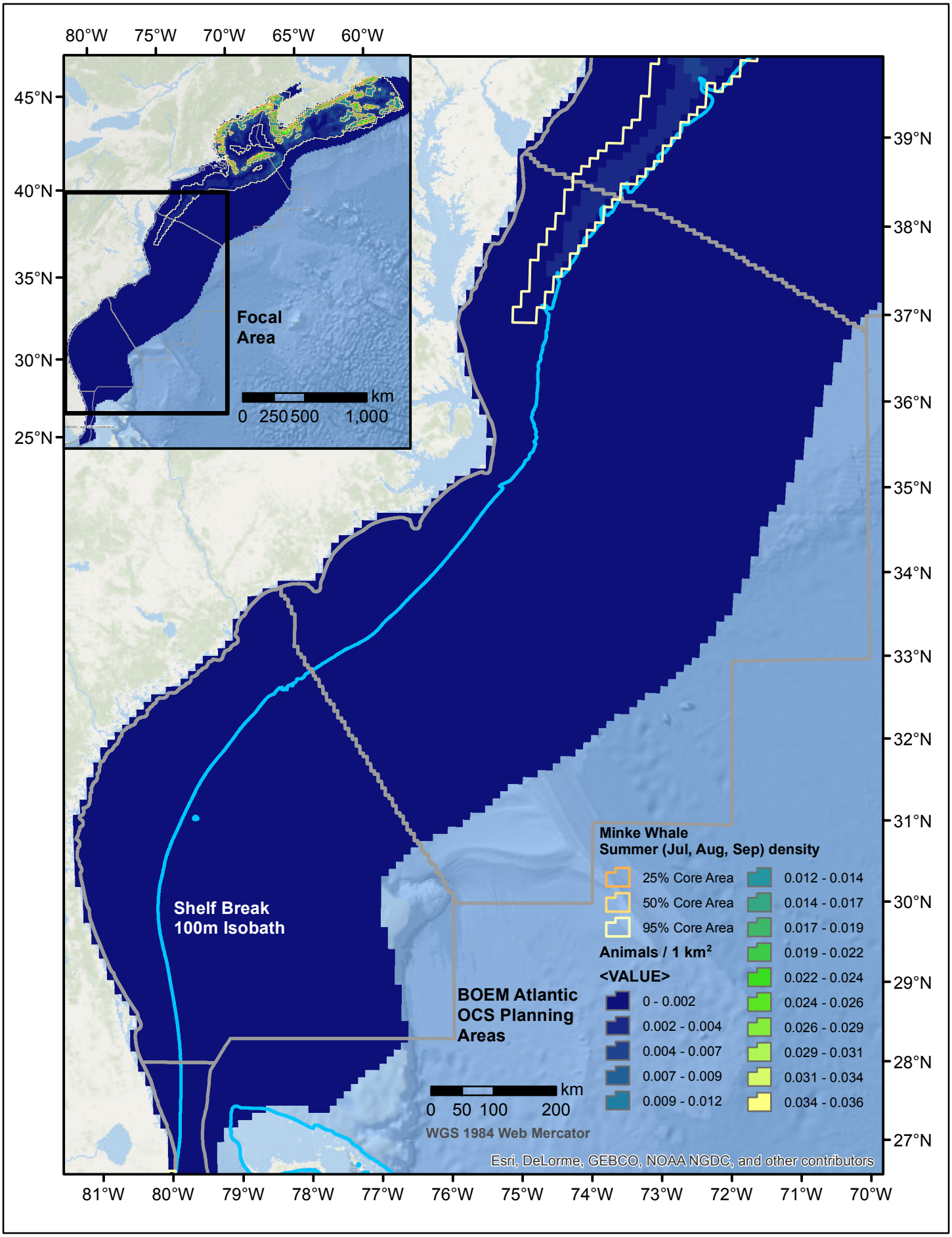
70°W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75°W
70°W
65°W
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45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Minke Whale
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.002
0.002 - 0.004
0.004 - 0.007
0.007 - 0.009
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0.012 - 0.014
0.014 - 0.017
0.017 - 0.019
0.019 - 0.022
0.022 - 0.024
0.024 - 0.026
0.026 - 0.029
0.029 - 0.031
0.031 - 0.034
0.034 - 0.036
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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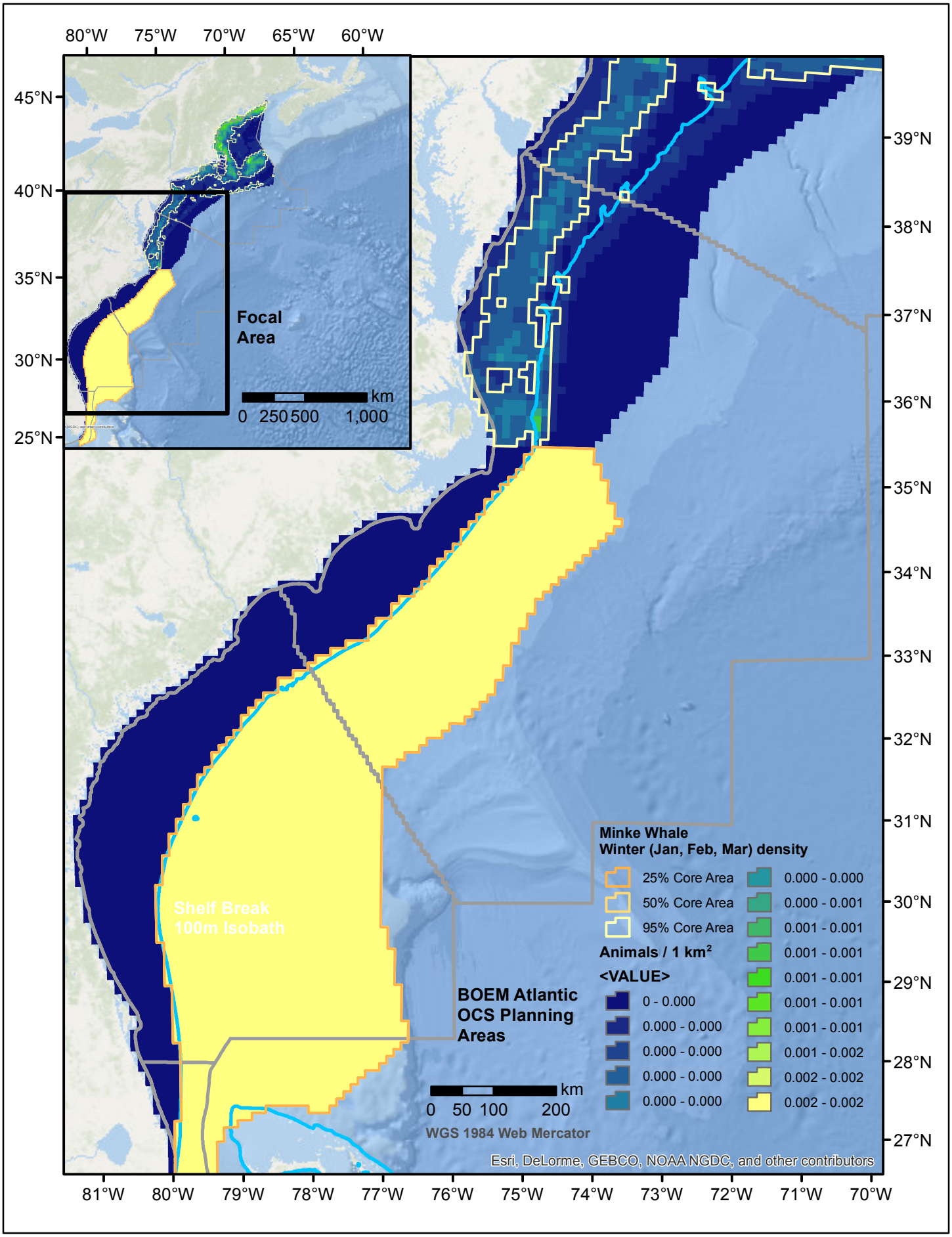
70°W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40°N
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25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Minke Whale
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.000
0.000 - 0.000
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0.000 - 0.000
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0.001 - 0.001
0.001 - 0.001
0.001 - 0.001
0.001 - 0.001
0.001 - 0.002
0.002 - 0.002
0.002 - 0.002
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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76°W
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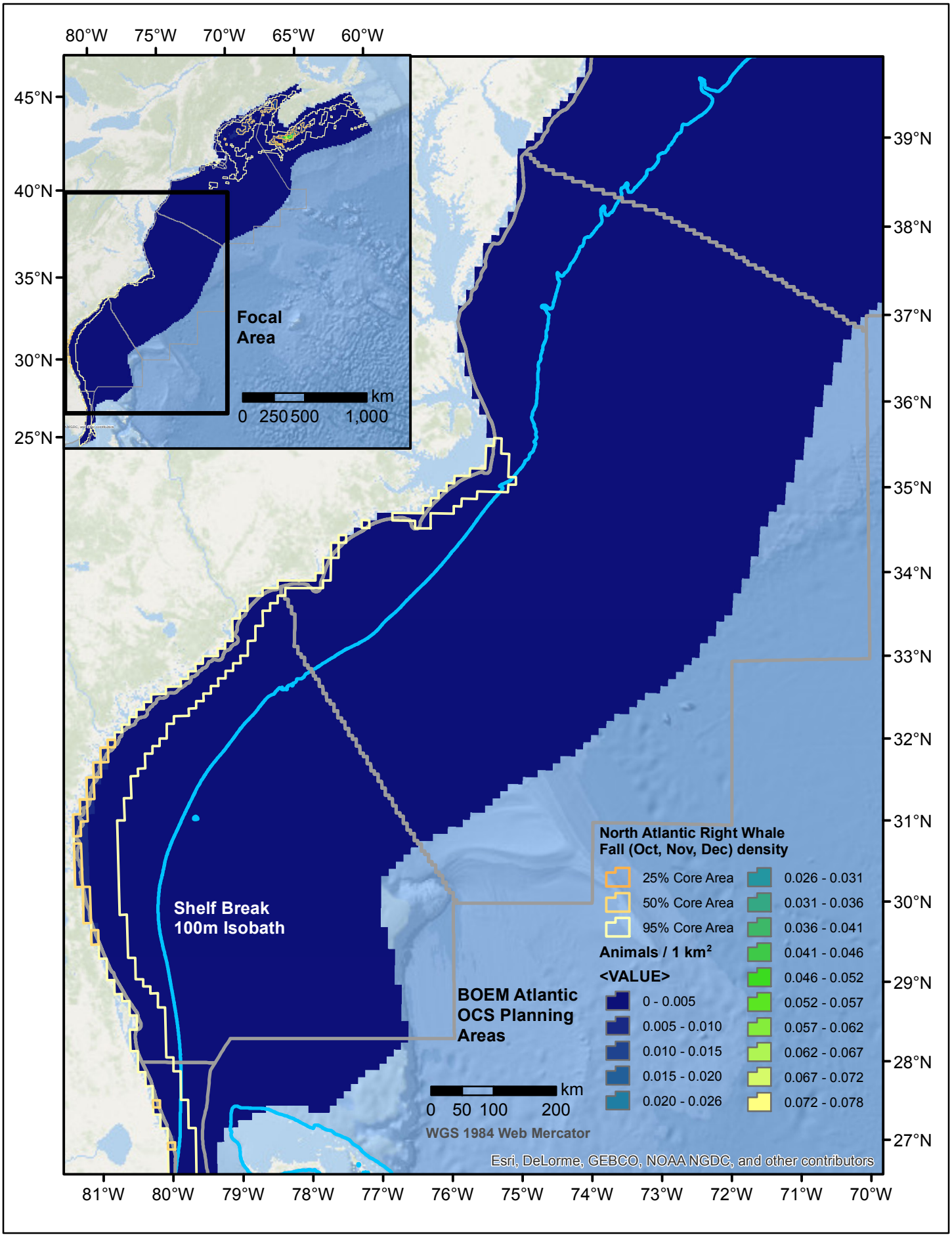
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
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45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
North Atlantic Right Whale Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.005
0.005 - 0.010
0.010 - 0.015
0.015 - 0.020
0.020 - 0.026
0.026 - 0.031
0.031 - 0.036
0.036 - 0.041
0.041 - 0.046
0.046 - 0.052
0.052 - 0.057
0.057 - 0.062
0.062 - 0.067
0.067 - 0.072
0.072 - 0.078
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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79°W
78°W
77°W
76°W
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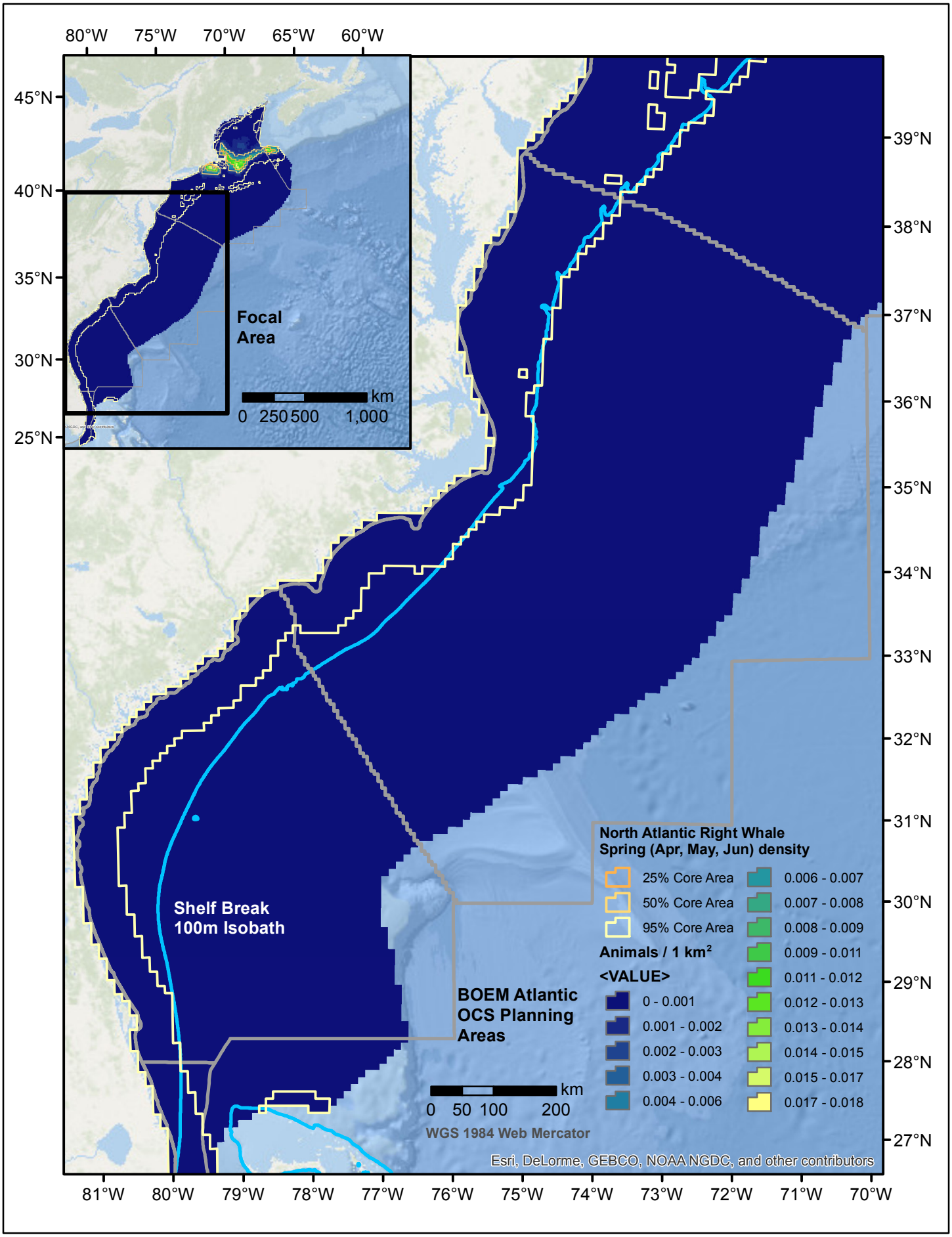
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
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30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
North Atlantic Right Whale Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.001
0.001 - 0.002
0.002 - 0.003
0.003 - 0.004
0.004 - 0.006
0.006 - 0.007
0.007 - 0.008
0.008 - 0.009
0.009 - 0.011
0.011 - 0.012
0.012 - 0.013
0.013 - 0.014
0.014 - 0.015
0.015 - 0.017
0.017 - 0.018
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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79°W
78°W
77°W
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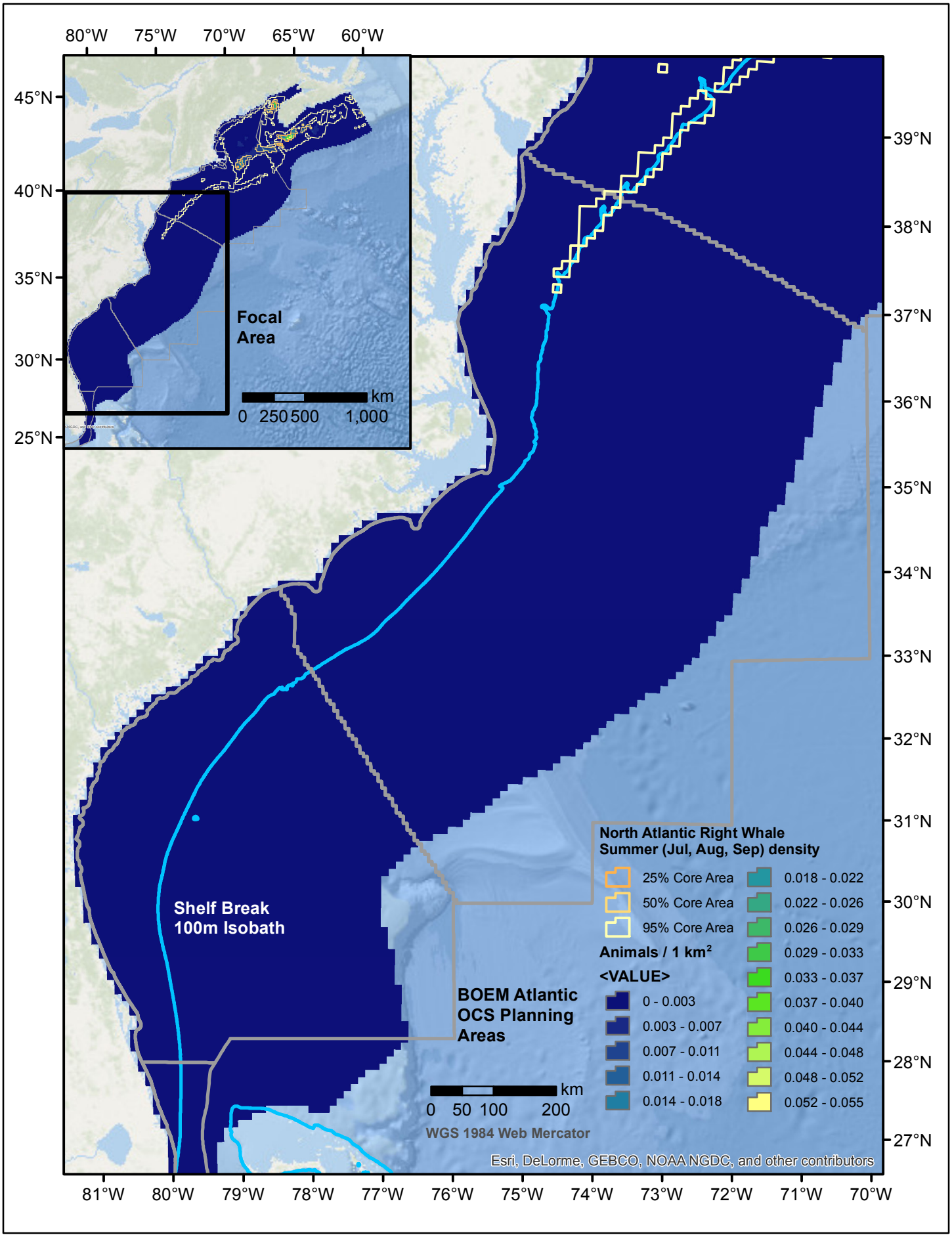
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
North Atlantic Right Whale Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.003
0.003 - 0.007
0.007 - 0.011
0.011 - 0.014
0.014 - 0.018
0.018 - 0.022
0.022 - 0.026
0.026 - 0.029
0.029 - 0.033
0.033 - 0.037
0.037 - 0.040
0.040 - 0.044
0.044 - 0.048
0.048 - 0.052
0.052 - 0.055
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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79°W
78°W
77°W
76°W
75°W
74°W
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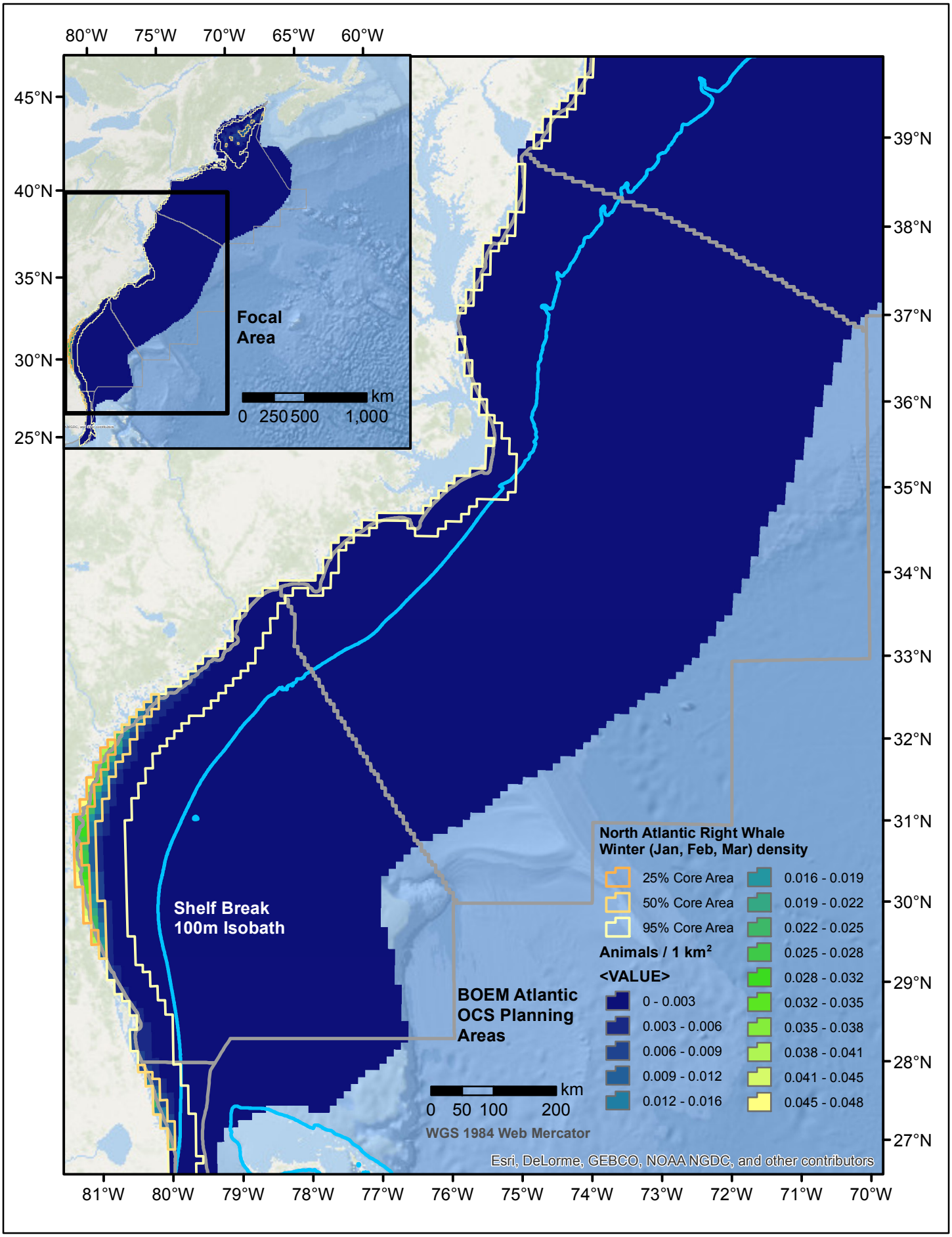
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
North Atlantic Right Whale Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.003
0.003 - 0.006
0.006 - 0.009
0.009 - 0.012
0.012 - 0.016
0.016 - 0.019
0.019 - 0.022
0.022 - 0.025
0.025 - 0.028
0.028 - 0.032
0.032 - 0.035
0.035 - 0.038
0.038 - 0.041
0.041 - 0.045
0.045 - 0.048
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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78°W
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75°W
74°W
73°W
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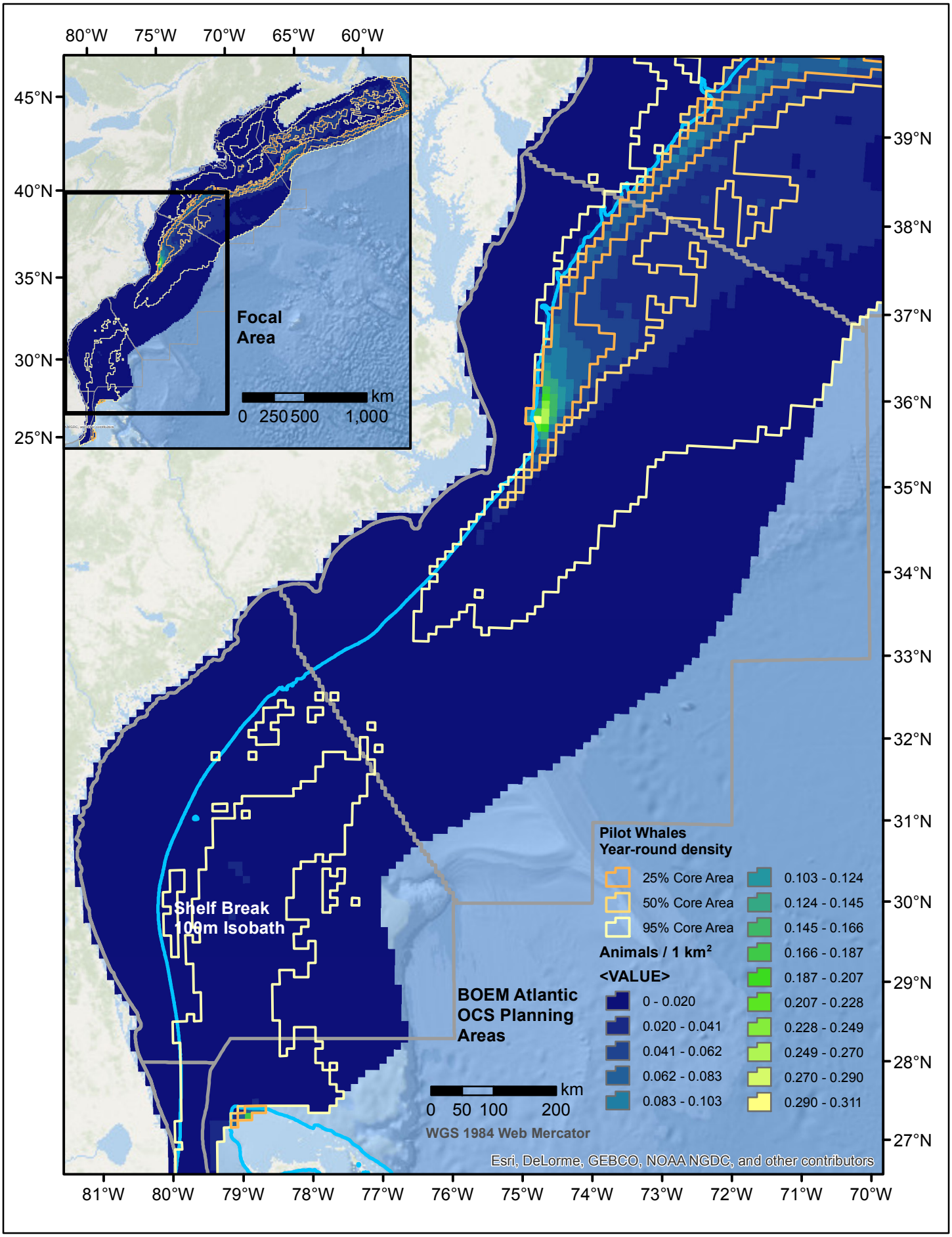
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Pilot Whales
Year-round density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.020
0.020 - 0.041
0.041 - 0.062
0.062 - 0.083
0.083 - 0.103
0.103 - 0.124
0.124 - 0.145
0.145 - 0.166
0.166 - 0.187
0.187 - 0.207
0.207 - 0.228
0.228 - 0.249
0.249 - 0.270
0.270 - 0.290
0.290 - 0.311
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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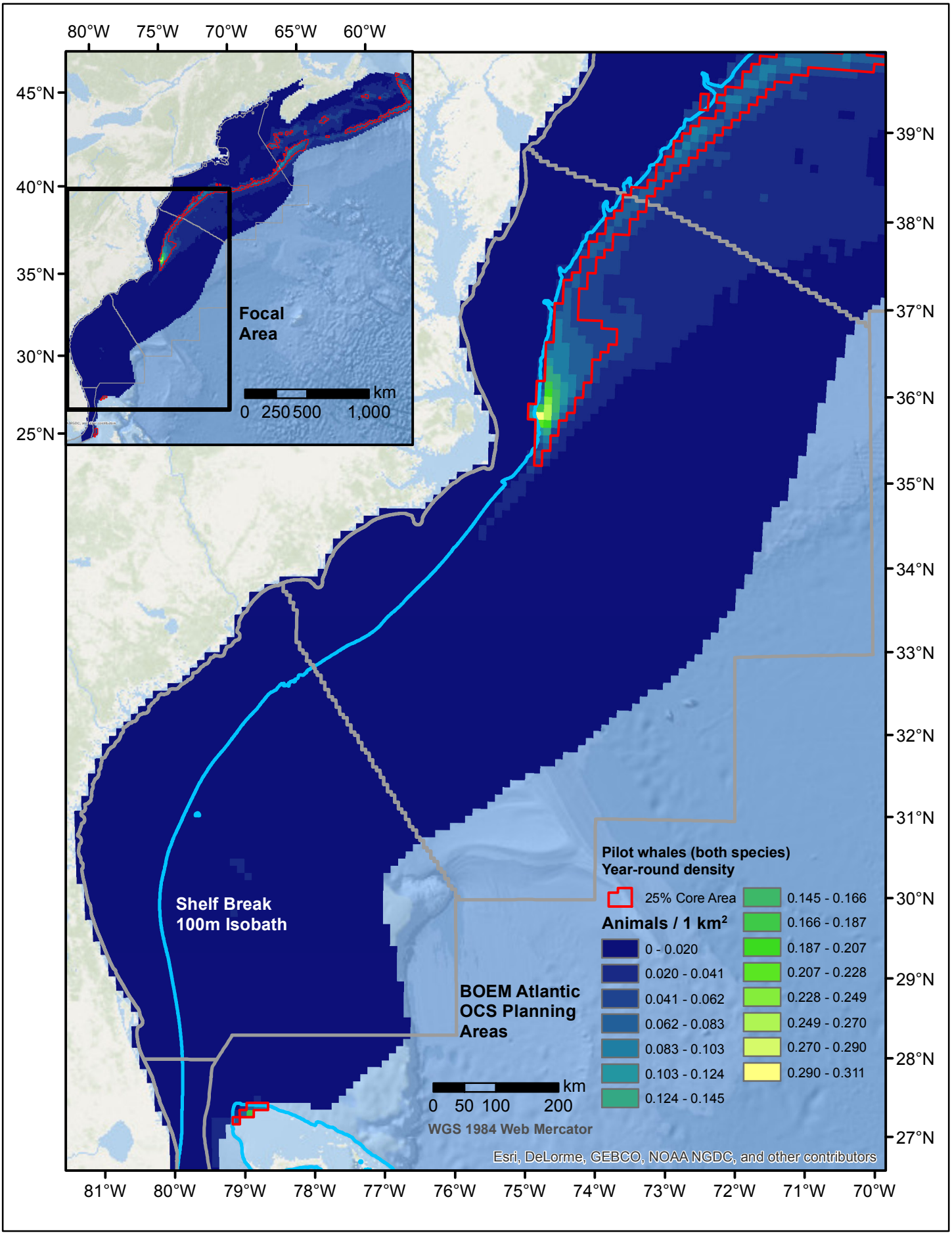
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Pilot whales (both species)
Year-round density
25% Core Area
Animals / 1 km²
0 - 0.020
0.020 - 0.041
0.041 - 0.062
0.062 - 0.083
0.083 - 0.103
0.103 - 0.124
0.124 - 0.145
0.145 - 0.166
0.166 - 0.187
0.187 - 0.207
0.207 - 0.228
0.228 - 0.249
0.249 - 0.270
0.270 - 0.290
0.290 - 0.311
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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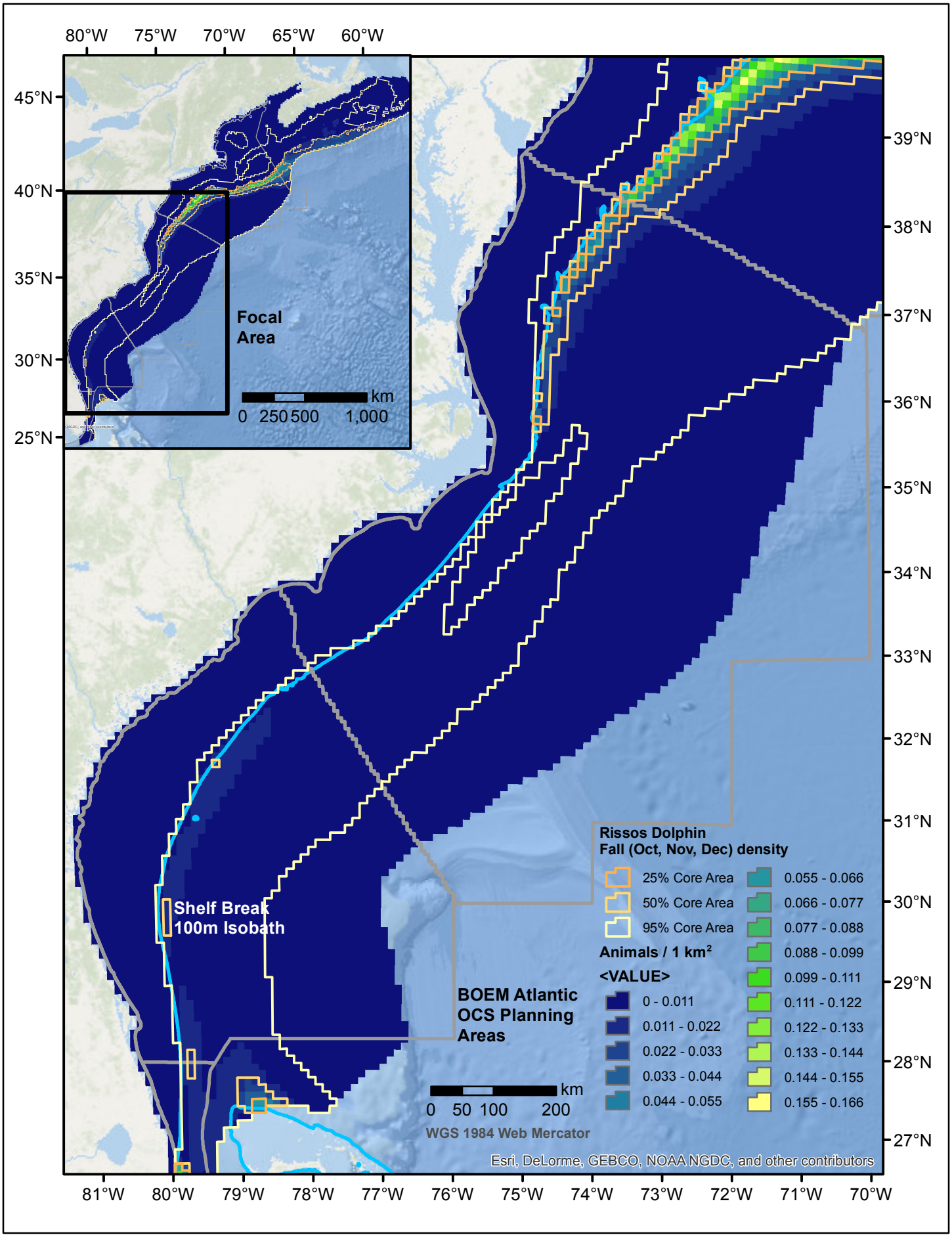
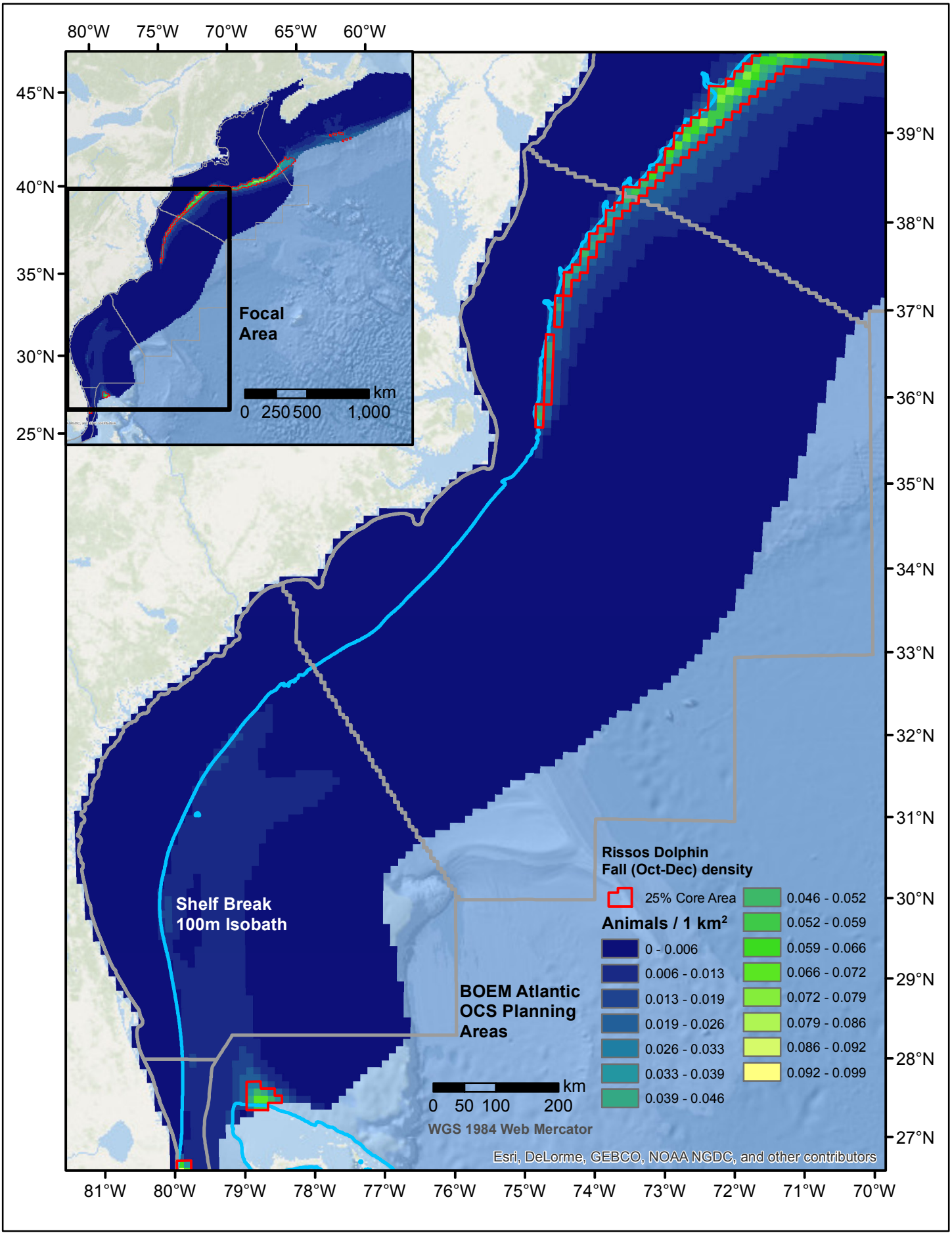
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.011
0.011 - 0.022
0.022 - 0.033
0.033 - 0.044
0.044 - 0.055
0.055 - 0.066
0.066 - 0.077
0.077 - 0.088
0.088 - 0.099
0.099 - 0.111
0.111 - 0.122
0.122 - 0.133
0.133 - 0.144
0.144 - 0.155
0.155 - 0.166
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin Fall (Oct-Dec) density
25% Core Area
Animals / 1 km²
0 - 0.006
0.006 - 0.013
0.013 - 0.019
0.019 - 0.026
0.026 - 0.033
0.033 - 0.039
0.039 - 0.046
0.046 - 0.052
0.052 - 0.059
0.059 - 0.066
0.066 - 0.072
0.072 - 0.079
0.079 - 0.086
0.086 - 0.092
0.092 - 0.099
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
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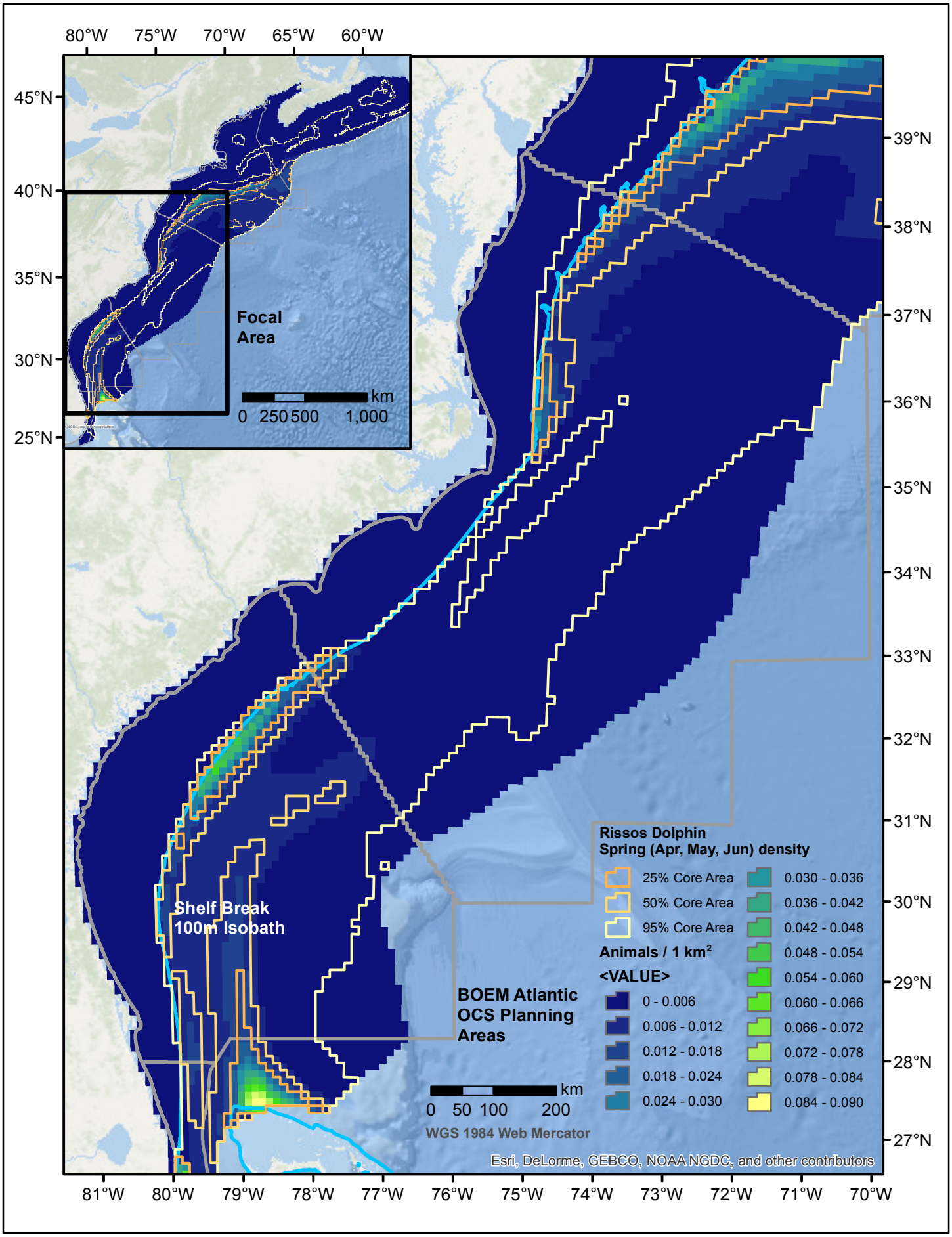
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.006
0.006 - 0.012
0.012 - 0.018
0.018 - 0.024
0.024 - 0.030
0.030 - 0.036
0.036 - 0.042
0.042 - 0.048
0.048 - 0.054
0.054 - 0.060
0.060 - 0.066
0.066 - 0.072
0.072 - 0.078
0.078 - 0.084
0.084 - 0.090
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
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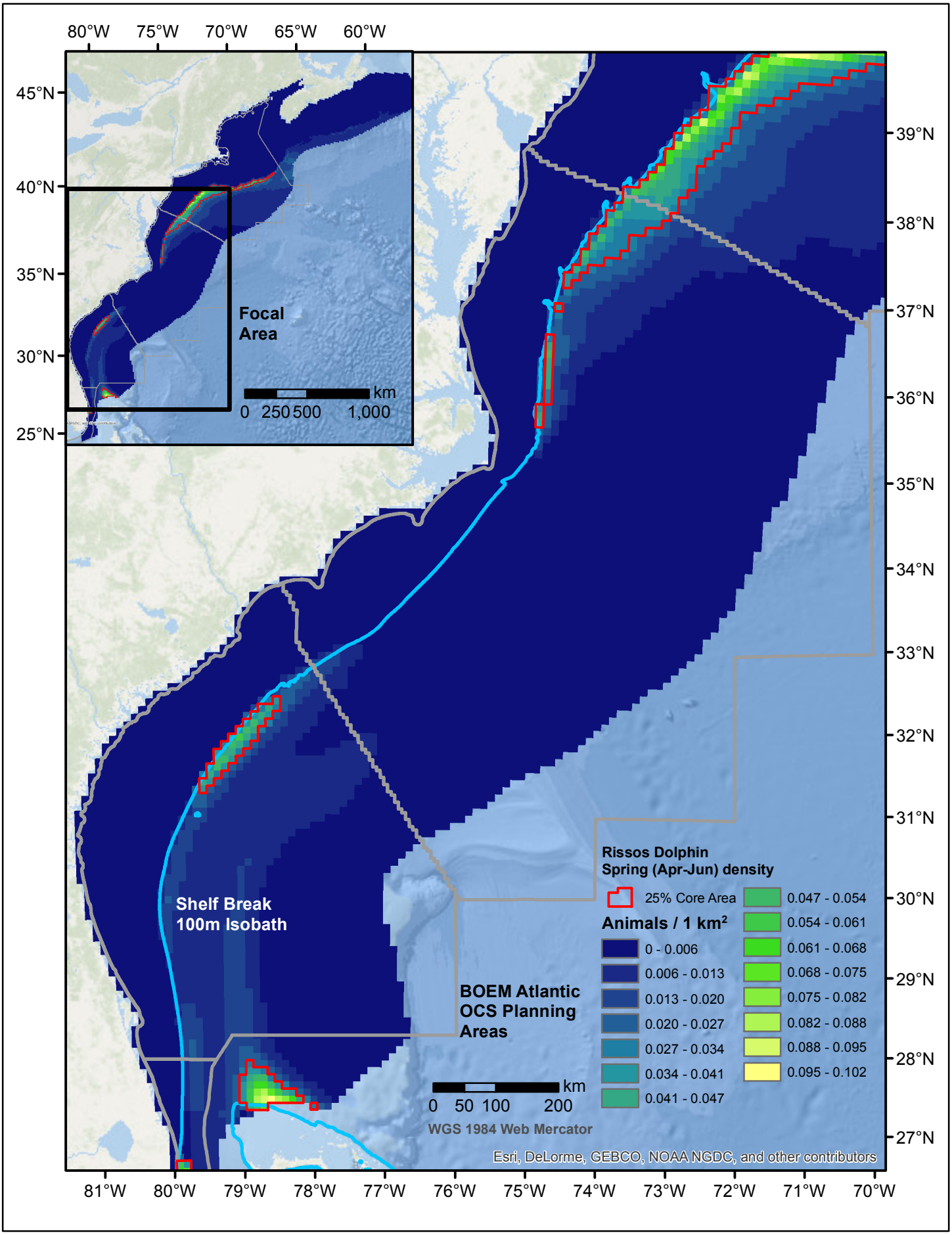
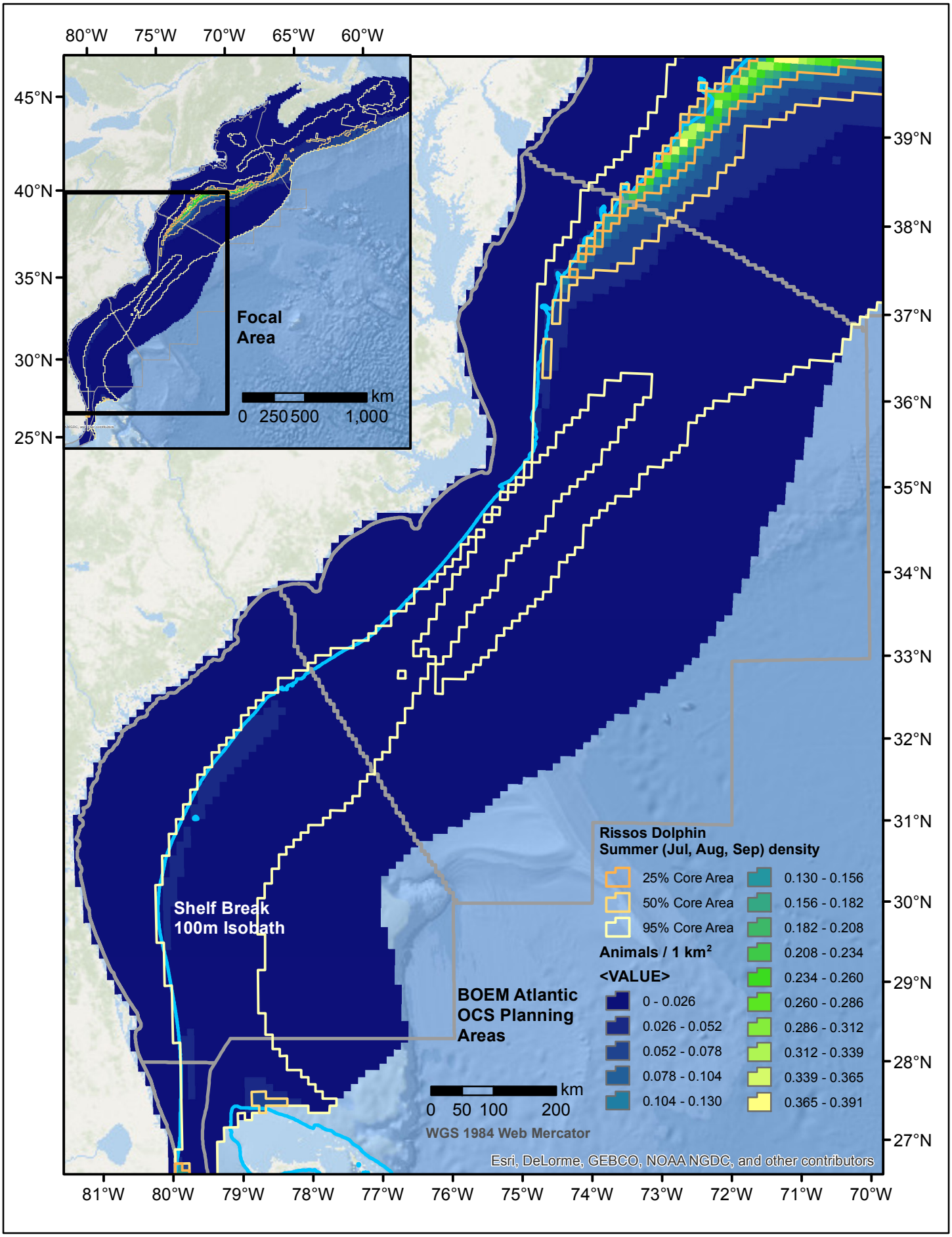
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin Spring (Apr-Jun) density
25% Core Area
Animals / 1 km²
0 - 0.006
0.006 - 0.013
0.013 - 0.020
0.020 - 0.027
0.027 - 0.034
0.034 - 0.041
0.041 - 0.047
0.047 - 0.054
0.054 - 0.061
0.061 - 0.068
0.068 - 0.075
0.075 - 0.082
0.082 - 0.088
0.088 - 0.095
0.095 - 0.102
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.026
0.026 - 0.052
0.052 - 0.078
0.078 - 0.104
0.104 - 0.130
0.130 - 0.156
0.156 - 0.182
0.182 - 0.208
0.208 - 0.234
0.234 - 0.260
0.260 - 0.286
0.286 - 0.312
0.312 - 0.339
0.339 - 0.365
0.365 - 0.391
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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77°W
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74°W
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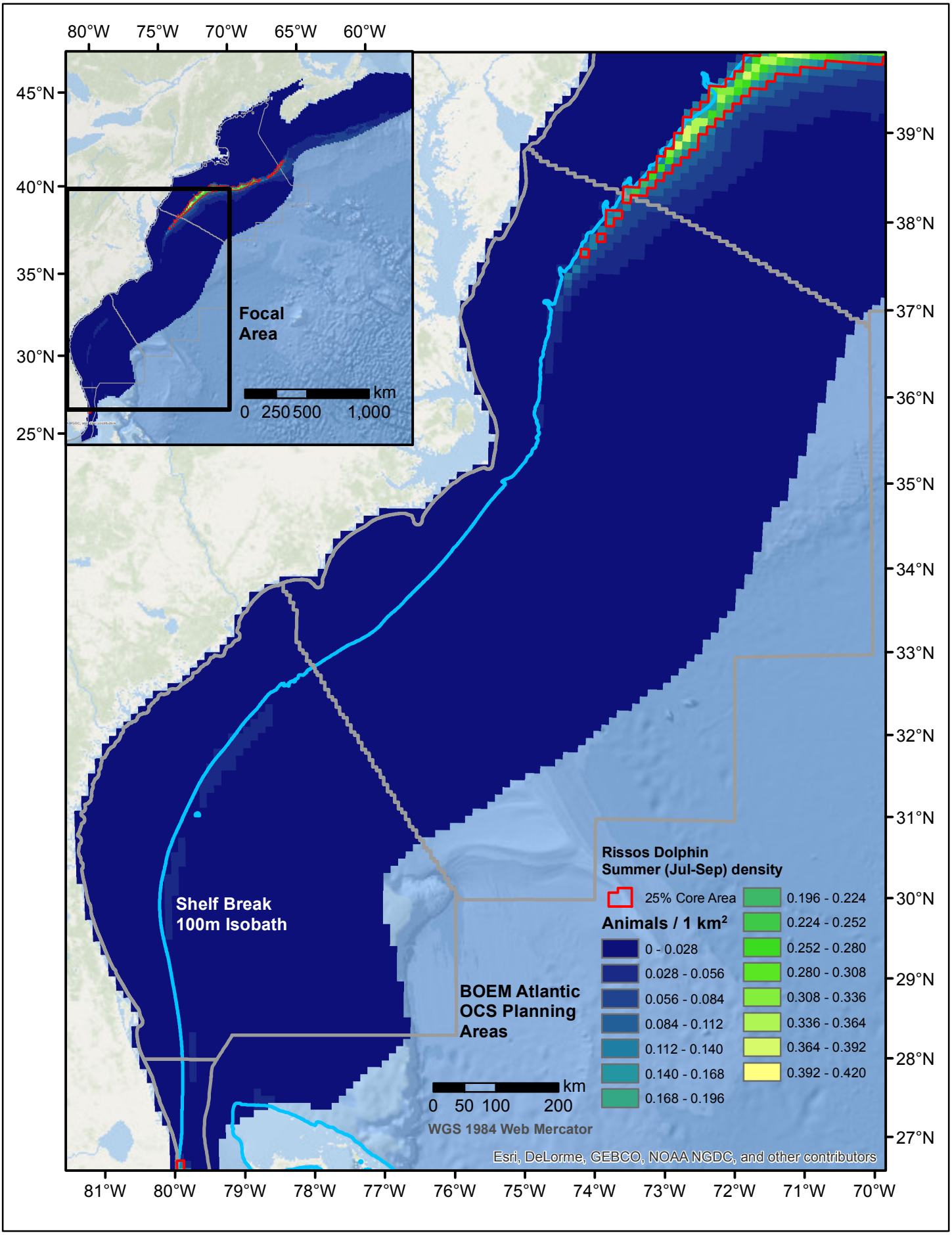
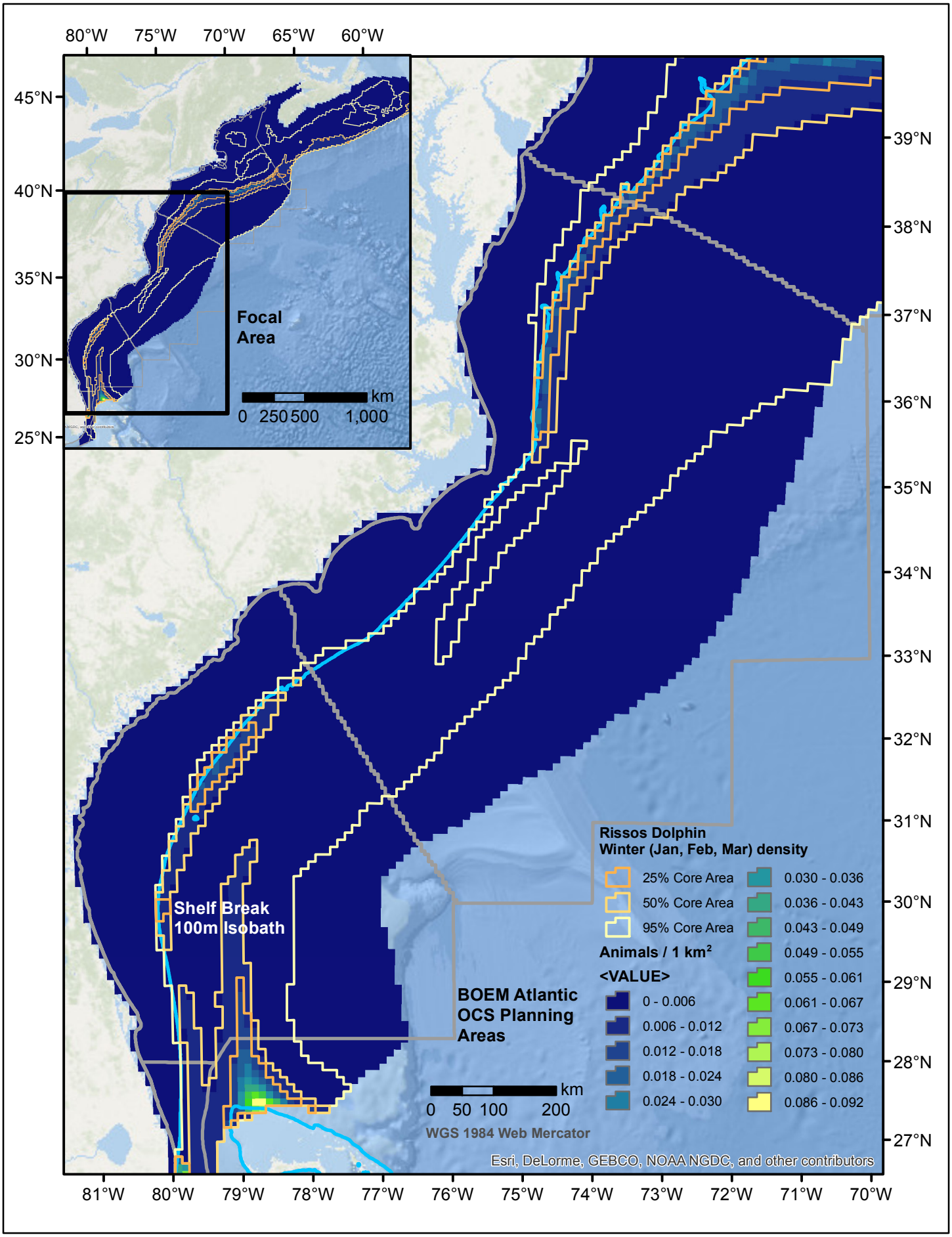
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin Summer (Jul-Sep) density
25% Core Area
Animals / 1 km²
0 - 0.028
0.028 - 0.056
0.056 - 0.084
0.084 - 0.112
0.112 - 0.140
0.140 - 0.168
0.168 - 0.196
0.196 - 0.224
0.224 - 0.252
0.252 - 0.280
0.280 - 0.308
0.308 - 0.336
0.336 - 0.364
0.364 - 0.392
0.392 - 0.420
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
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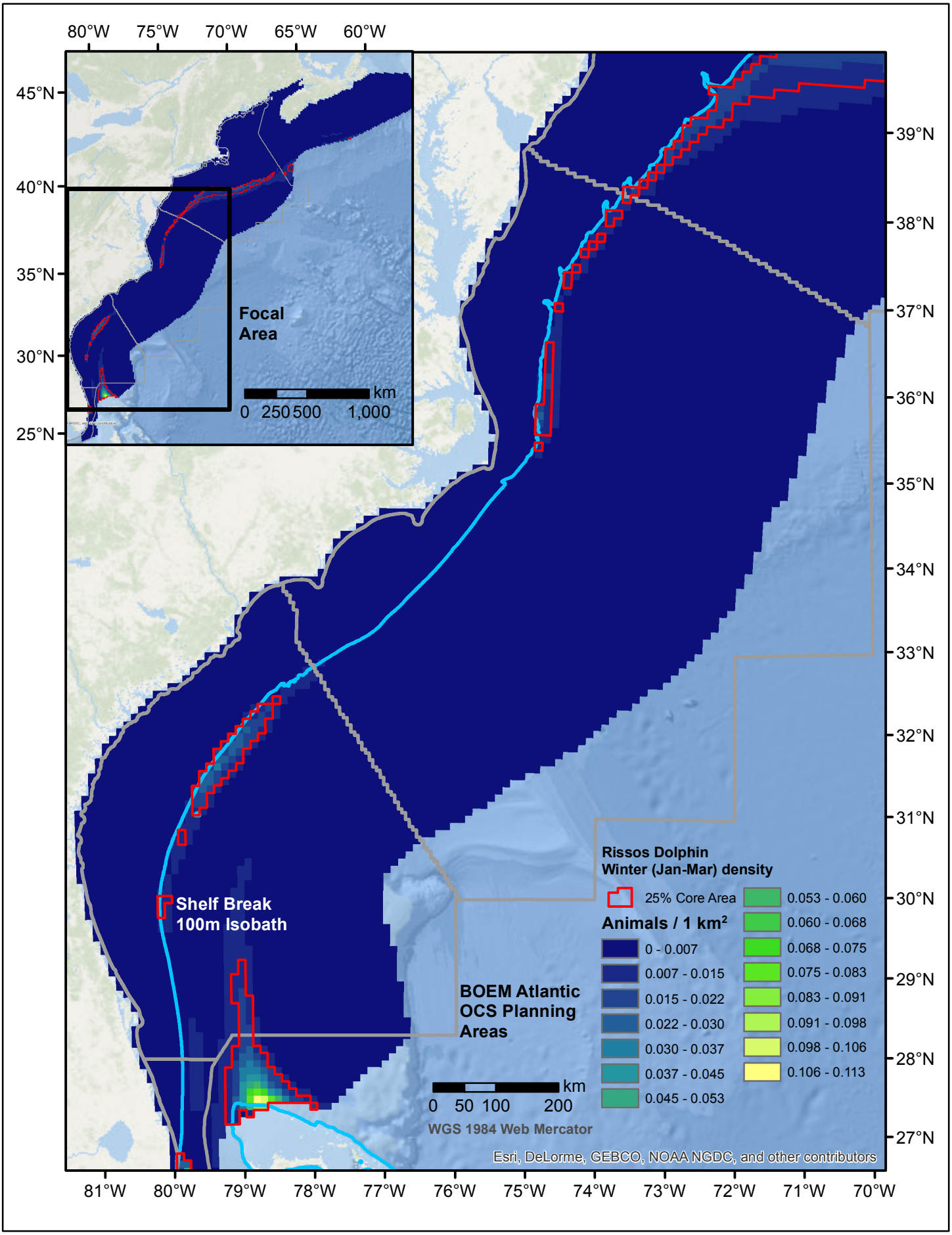
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Rissos Dolphin
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.006
0.006 - 0.012
0.012 - 0.018
0.018 - 0.024
0.024 - 0.030
0.030 - 0.036
0.036 - 0.043
0.043 - 0.049
0.049 - 0.055
0.055 - 0.061
0.061 - 0.067
0.067 - 0.073
0.073 - 0.080
0.080 - 0.086
0.086 - 0.092
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Rissos Dolphin Winter (Jan-Mar) density
25% Core Area
Animals / 1 km²
0 - 0.007
0.007 - 0.015
0.015 - 0.022
0.022 - 0.030
0.030 - 0.037
0.037 - 0.045
0.045 - 0.053
0.053 - 0.060
0.060 - 0.068
0.068 - 0.075
0.075 - 0.083
0.083 - 0.091
0.091 - 0.098
0.098 - 0.106
0.106 - 0.113
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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79°W
78°W
77°W
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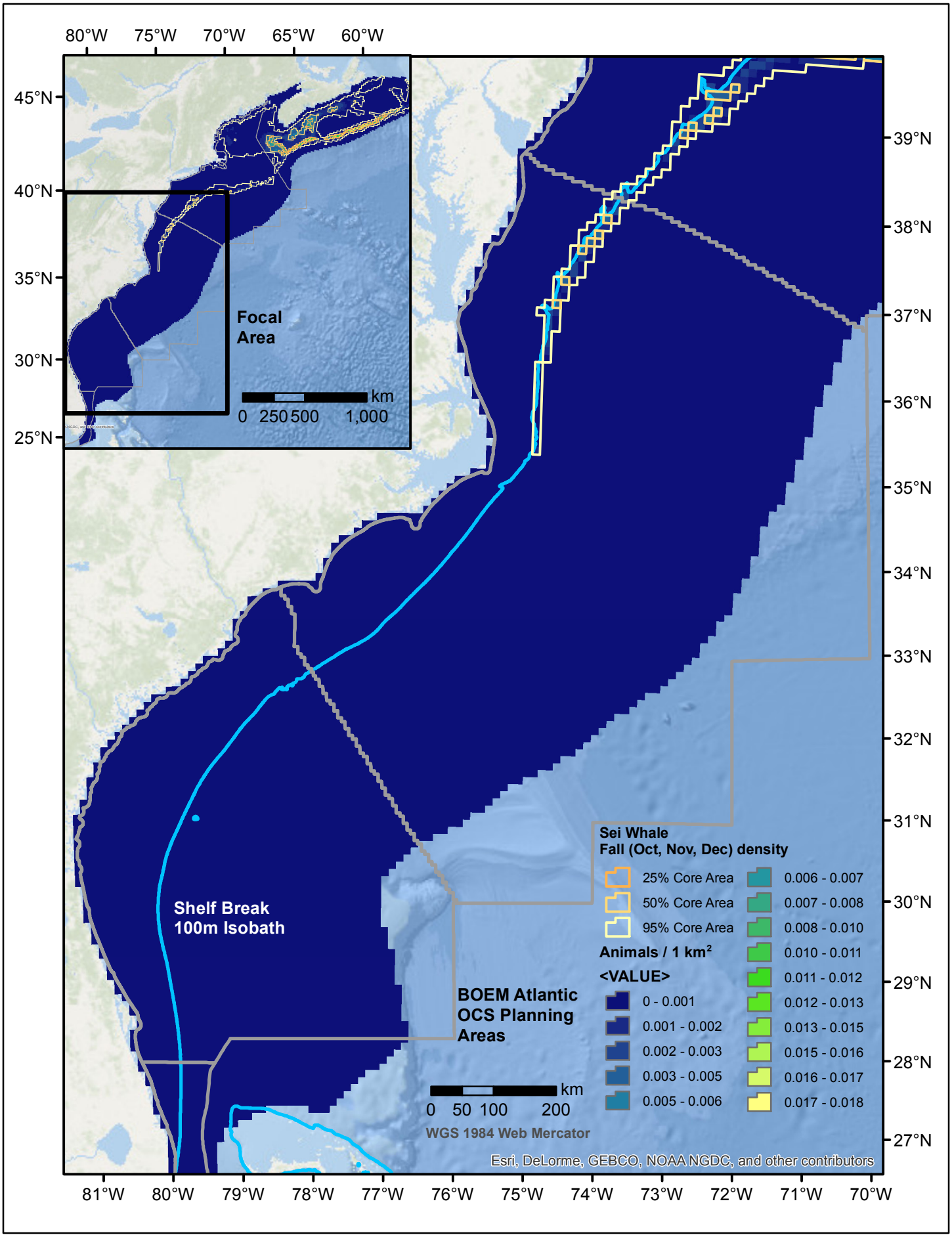
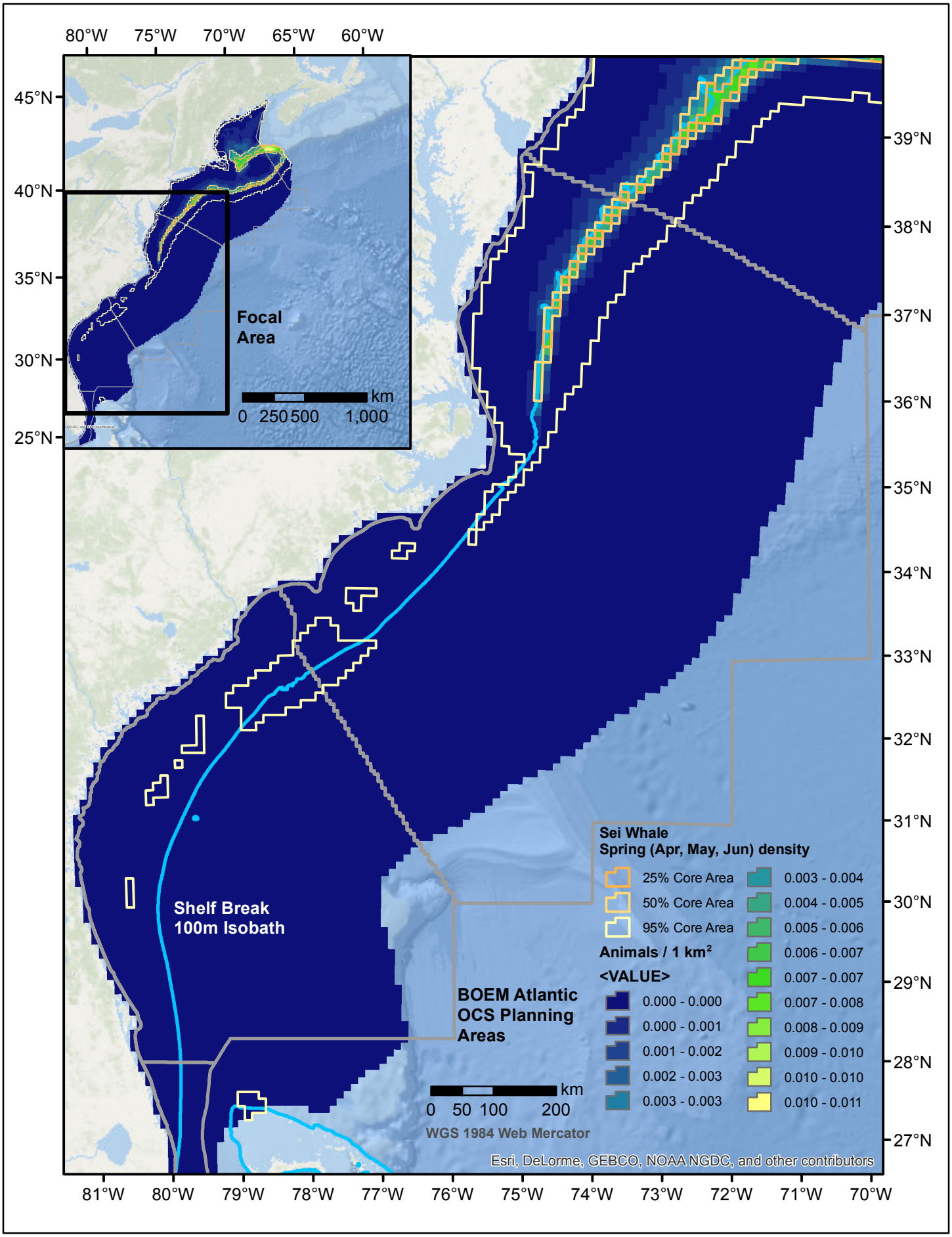
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sei Whale
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.001
0.001 - 0.002
0.002 - 0.003
0.003 - 0.005
0.005 - 0.006
0.006 - 0.007
0.007 - 0.008
0.008 - 0.010
0.010 - 0.011
0.011 - 0.012
0.012 - 0.013
0.013 - 0.015
0.015 - 0.016
0.016 - 0.017
0.017 - 0.018
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sei Whale
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0.000 - 0.000
0.000 - 0.001
0.001 - 0.002
0.002 - 0.003
0.003 - 0.003
0.003 - 0.004
0.004 - 0.005
0.005 - 0.006
0.006 - 0.007
0.007 - 0.007
0.007 - 0.008
0.008 - 0.009
0.009 - 0.010
0.010 - 0.010
0.010 - 0.011
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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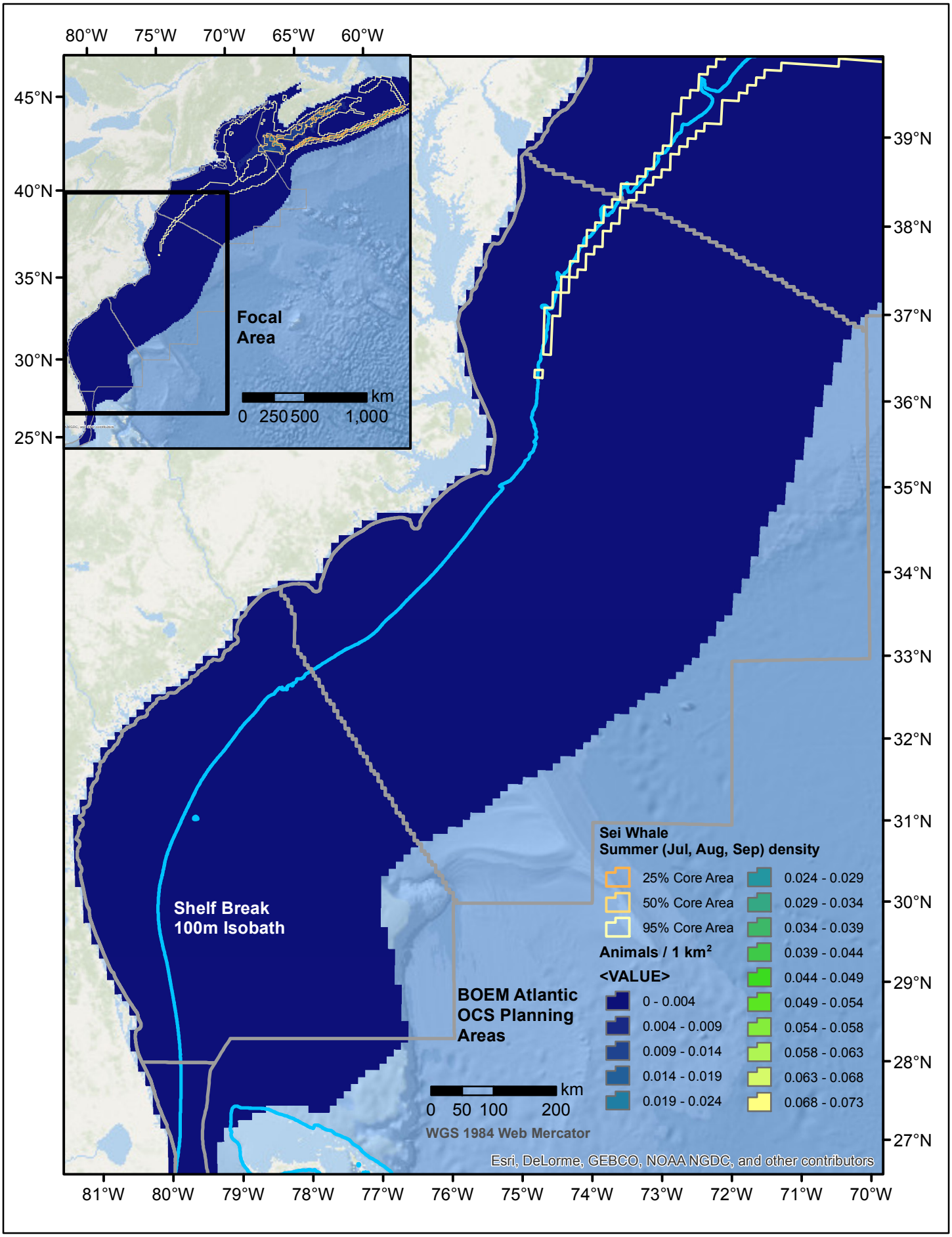
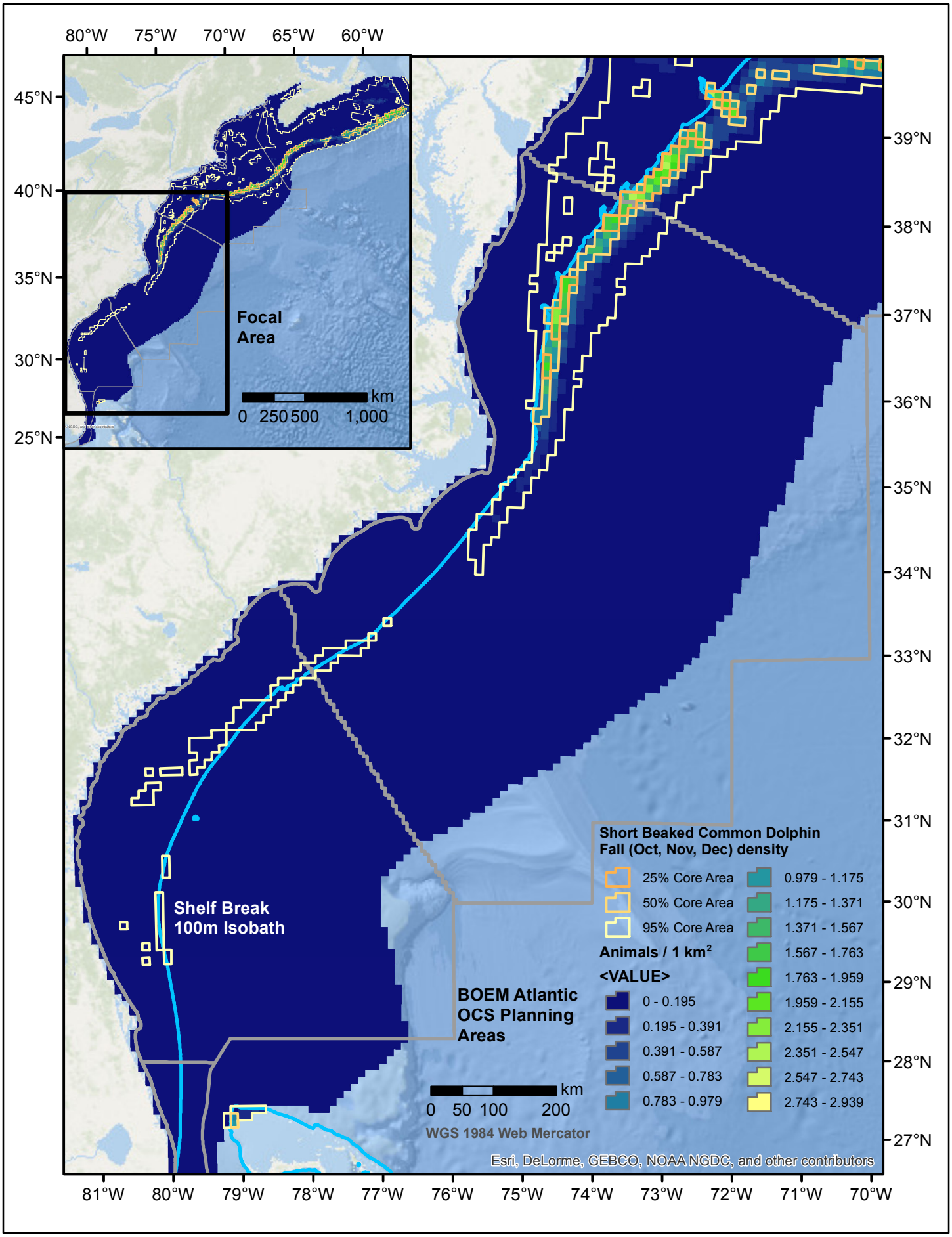
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sei Whale
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.004
0.004 - 0.009
0.009 - 0.014
0.014 - 0.019
0.019 - 0.024
0.024 - 0.029
0.029 - 0.034
0.034 - 0.039
0.039 - 0.044
0.044 - 0.049
0.049 - 0.054
0.054 - 0.058
0.058 - 0.063
0.063 - 0.068
0.068 - 0.073
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.195
0.195 - 0.391
0.391 - 0.587
0.587 - 0.783
0.783 - 0.979
0.979 - 1.175
1.175 - 1.371
1.371 - 1.567
1.567 - 1.763
1.763 - 1.959
1.959 - 2.155
2.155 - 2.351
2.351 - 2.547
2.547 - 2.743
2.743 - 2.939
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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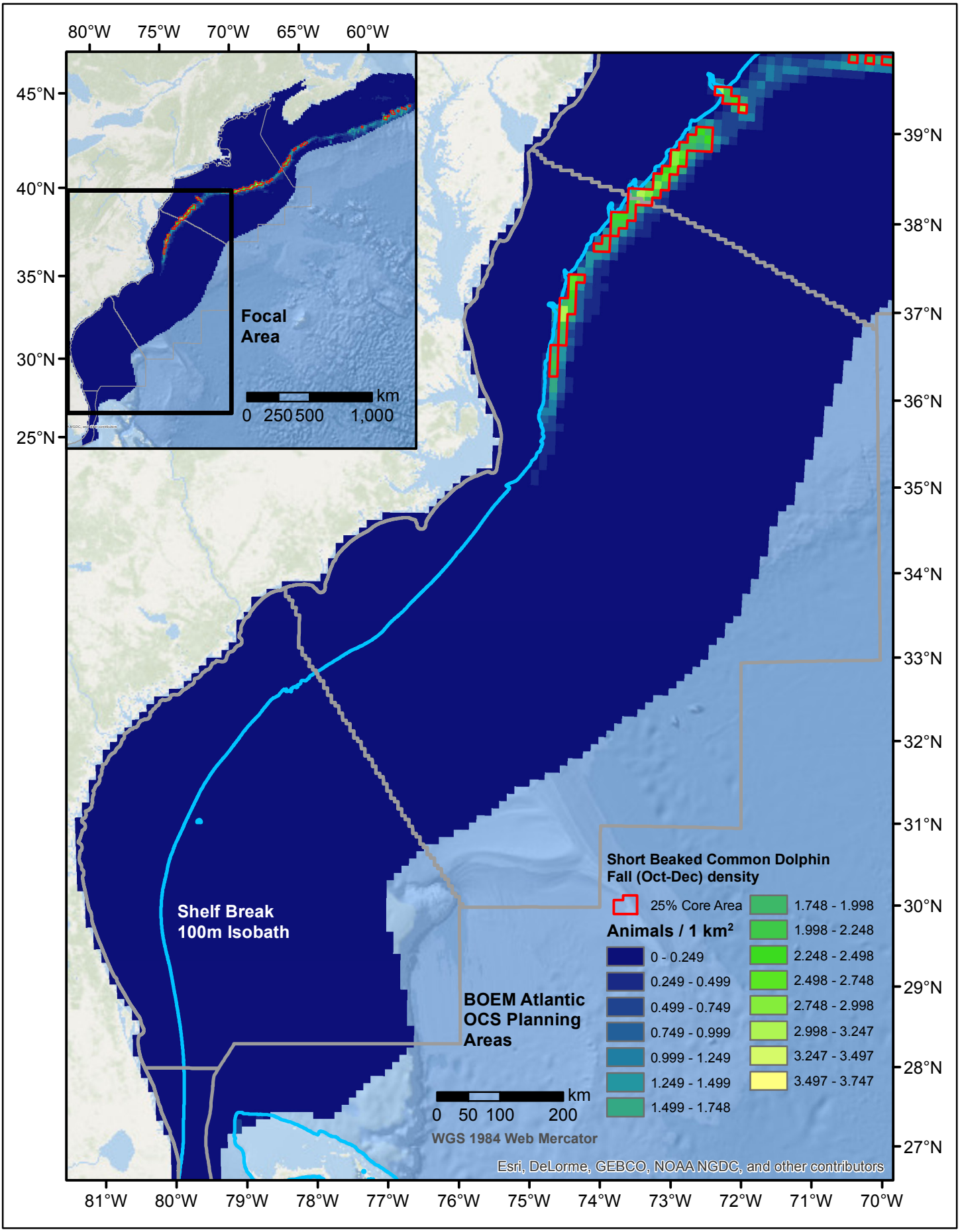
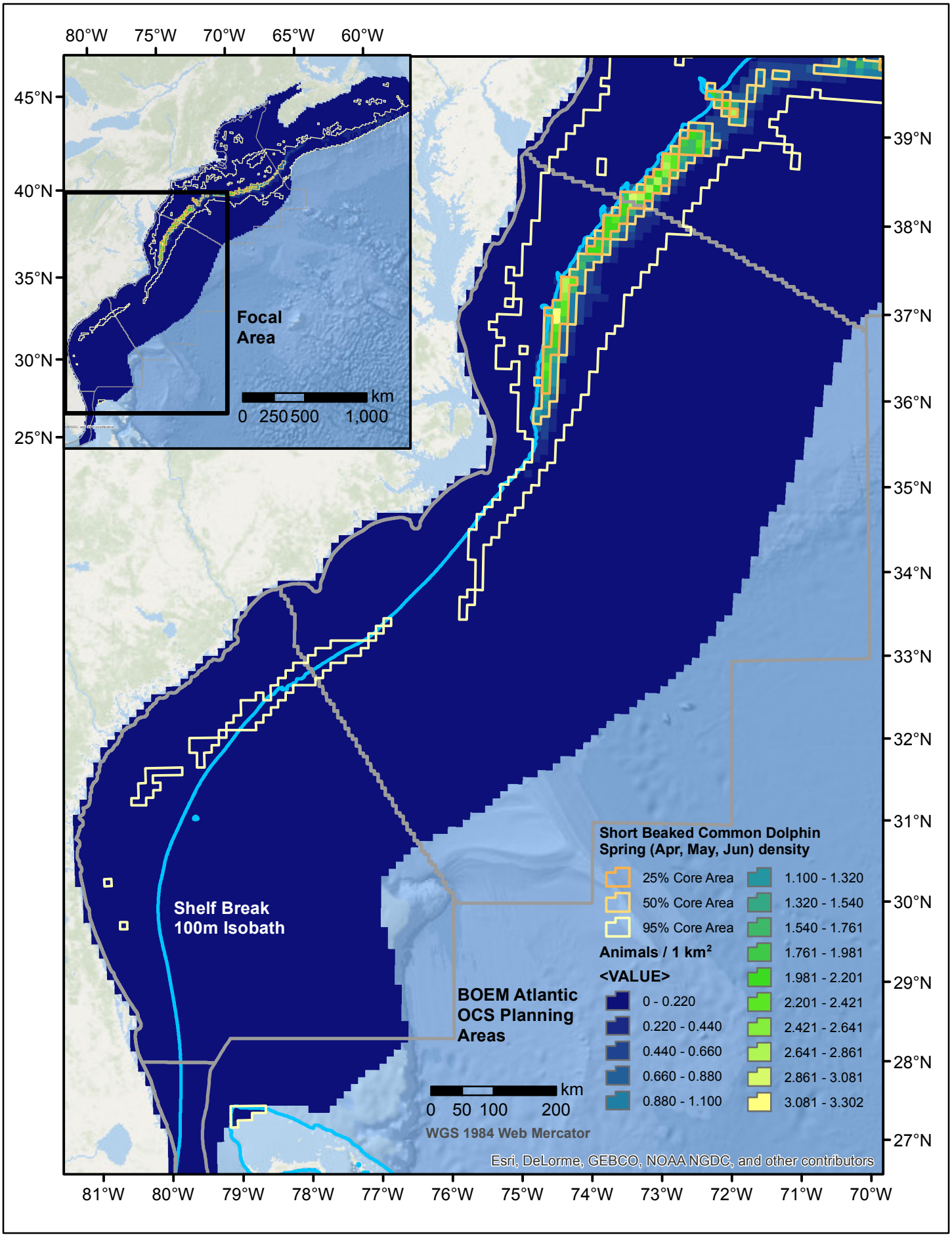
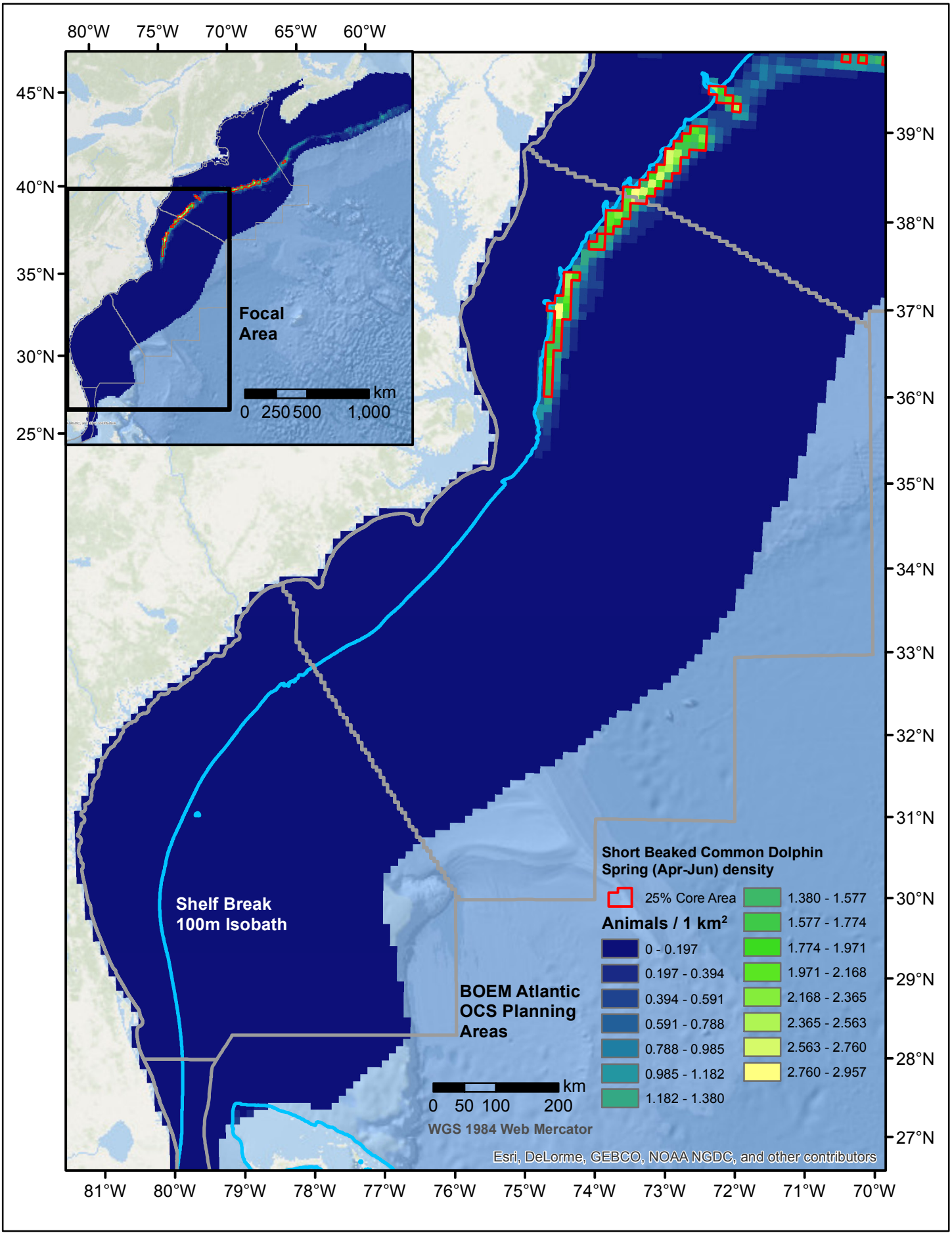
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin
Fall (Oct-Dec) density
25% Core Area
Animals / 1 km²
0 - 0.249
0.249 - 0.499
0.499 - 0.749
0.749 - 0.999
0.999 - 1.249
1.249 - 1.499
1.499 - 1.748
1.748 - 1.998
1.998 - 2.248
2.248 - 2.498
2.498 - 2.748
2.748 - 2.998
2.998 - 3.247
3.247 - 3.497
3.497 - 3.747
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.220
0.220 - 0.440
0.440 - 0.660
0.660 - 0.880
0.880 - 1.100
1.100 - 1.320
1.320 - 1.540
1.540 - 1.761
1.761 - 1.981
1.981 - 2.201
2.201 - 2.421
2.421 - 2.641
2.641 - 2.861
2.861 - 3.081
3.081 - 3.302
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin Spring (Apr-Jun) density
25% Core Area
Animals / 1 km²
0 - 0.197
0.197 - 0.394
0.394 - 0.591
0.591 - 0.788
0.788 - 0.985
0.985 - 1.182
1.182 - 1.380
1.380 - 1.577
1.577 - 1.774
1.774 - 1.971
1.971 - 2.168
2.168 - 2.365
2.365 - 2.563
2.563 - 2.760
2.760 - 2.957
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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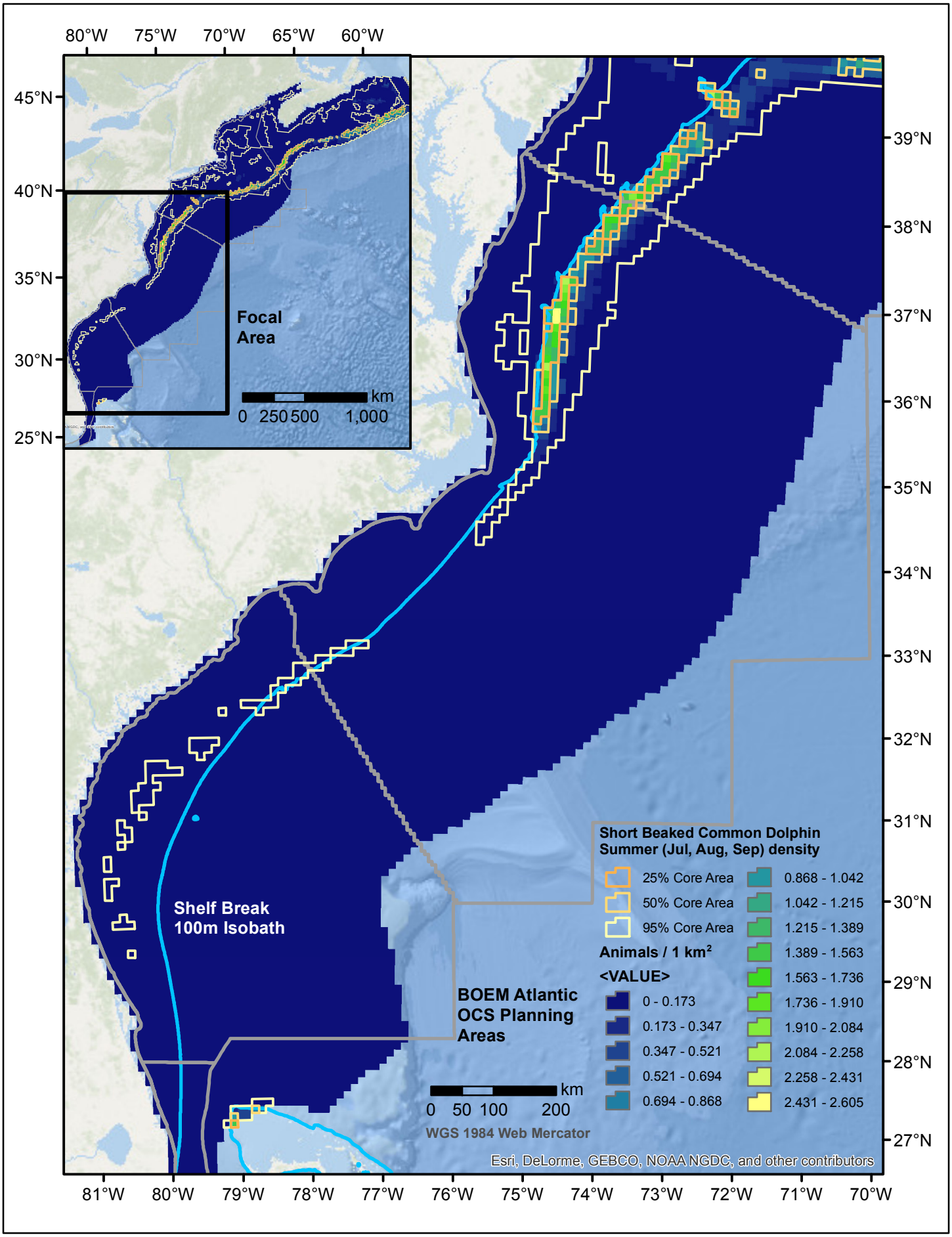
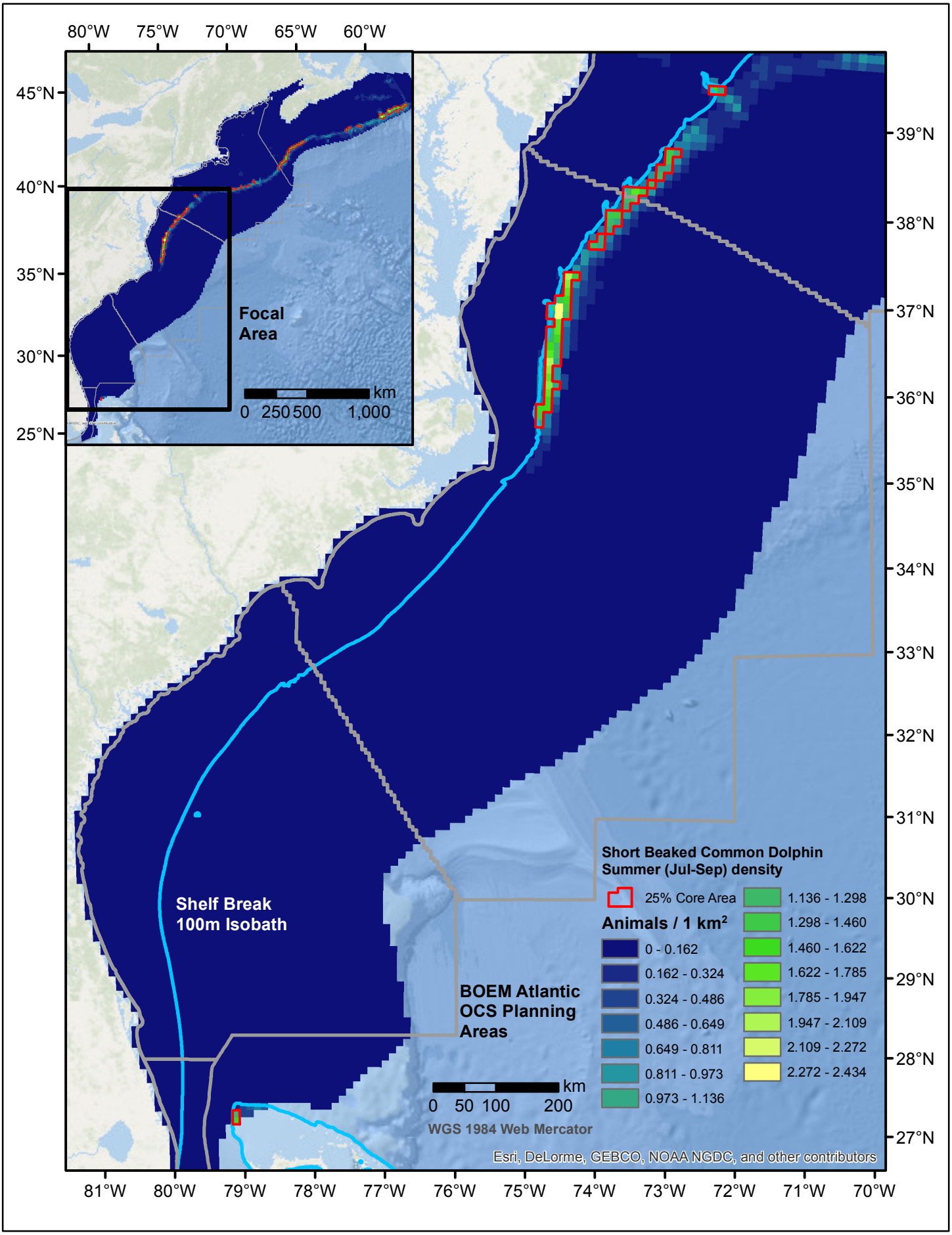
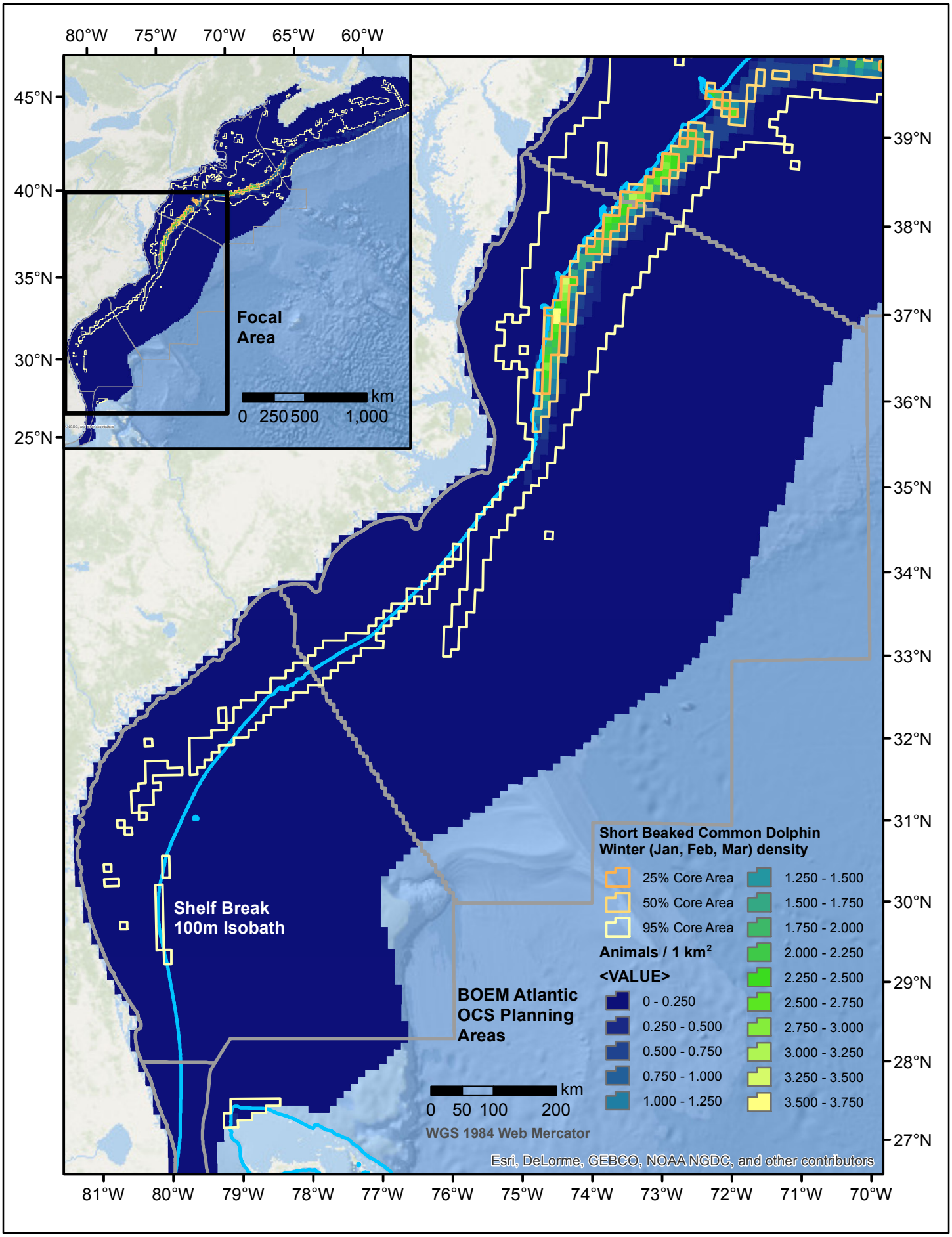
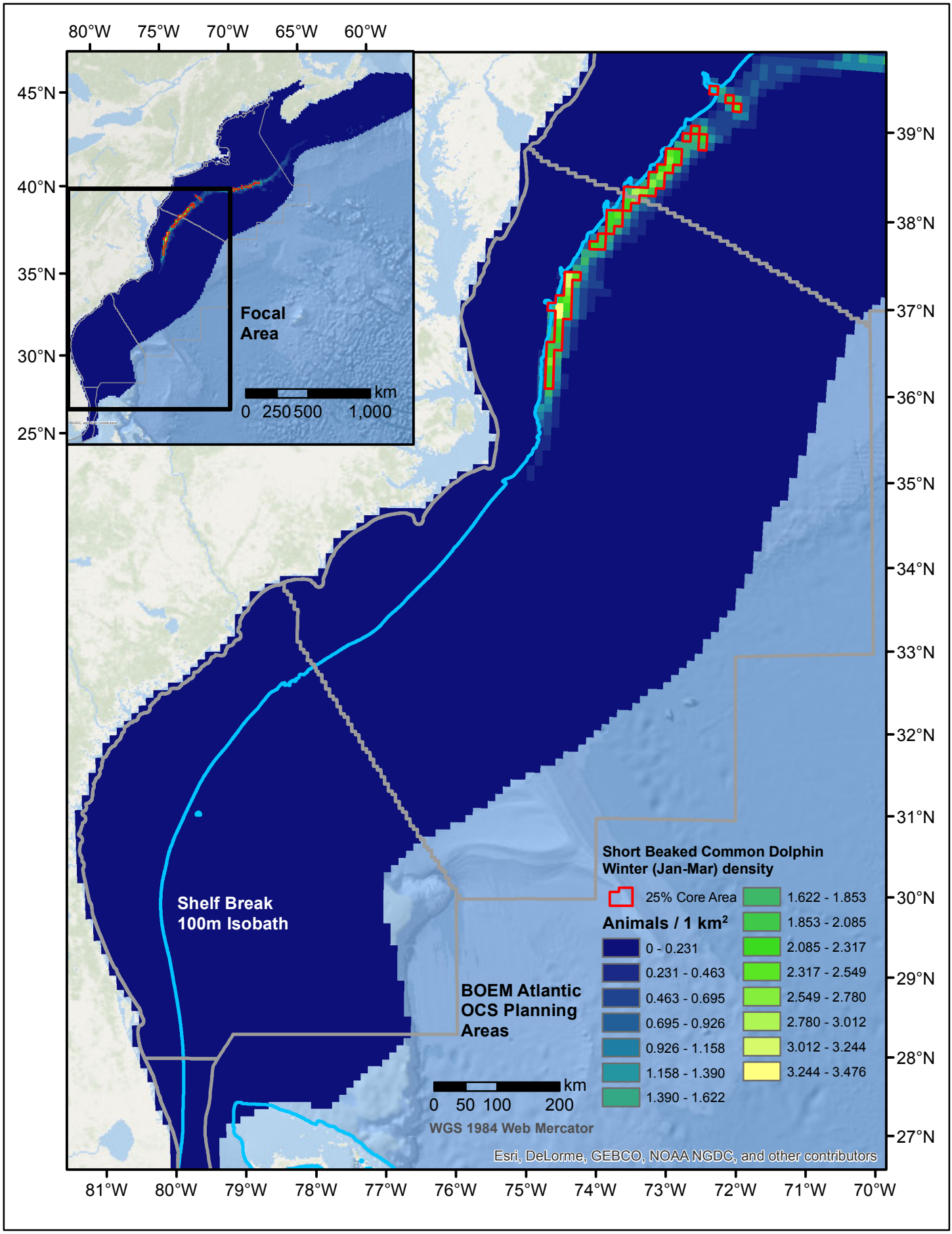
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.173
0.173 - 0.347
0.347 - 0.521
0.521 - 0.694
0.694 - 0.868
0.868 - 1.042
1.042 - 1.215
1.215 - 1.389
1.389 - 1.563
1.563 - 1.736
1.736 - 1.910
1.910 - 2.084
2.084 - 2.258
2.258 - 2.431
2.431 - 2.605
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin Summer (Jul-Sep) density
25% Core Area
Animals / 1 km²
0 - 0.162
0.162 - 0.324
0.324 - 0.486
0.486 - 0.649
0.649 - 0.811
0.811 - 0.973
0.973 - 1.136
1.136 - 1.298
1.298 - 1.460
1.460 - 1.622
1.622 - 1.785
1.785 - 1.947
1.947 - 2.109
2.109 - 2.272
2.272 - 2.434
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.250
0.250 - 0.500
0.500 - 0.750
0.750 - 1.000
1.000 - 1.250
1.250 - 1.500
1.500 - 1.750
1.750 - 2.000
2.000 - 2.250
2.250 - 2.500
2.500 - 2.750
2.750 - 3.000
3.000 - 3.250
3.250 - 3.500
3.500 - 3.750
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
km
0 50 100 200
WGS 1984 Web Mercator
Short Beaked Common Dolphin Winter (Jan-Mar) density
25% Core Area
Animals / 1 km²
0 - 0.231
0.231 - 0.463
0.463 - 0.695
0.695 - 0.926
0.926 - 1.158
1.158 - 1.390
1.390 - 1.622
1.622 - 1.853
1.853 - 2.085
2.085 - 2.317
2.317 - 2.549
2.549 - 2.780
2.780 - 3.012
3.012 - 3.244
3.244 - 3.476
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
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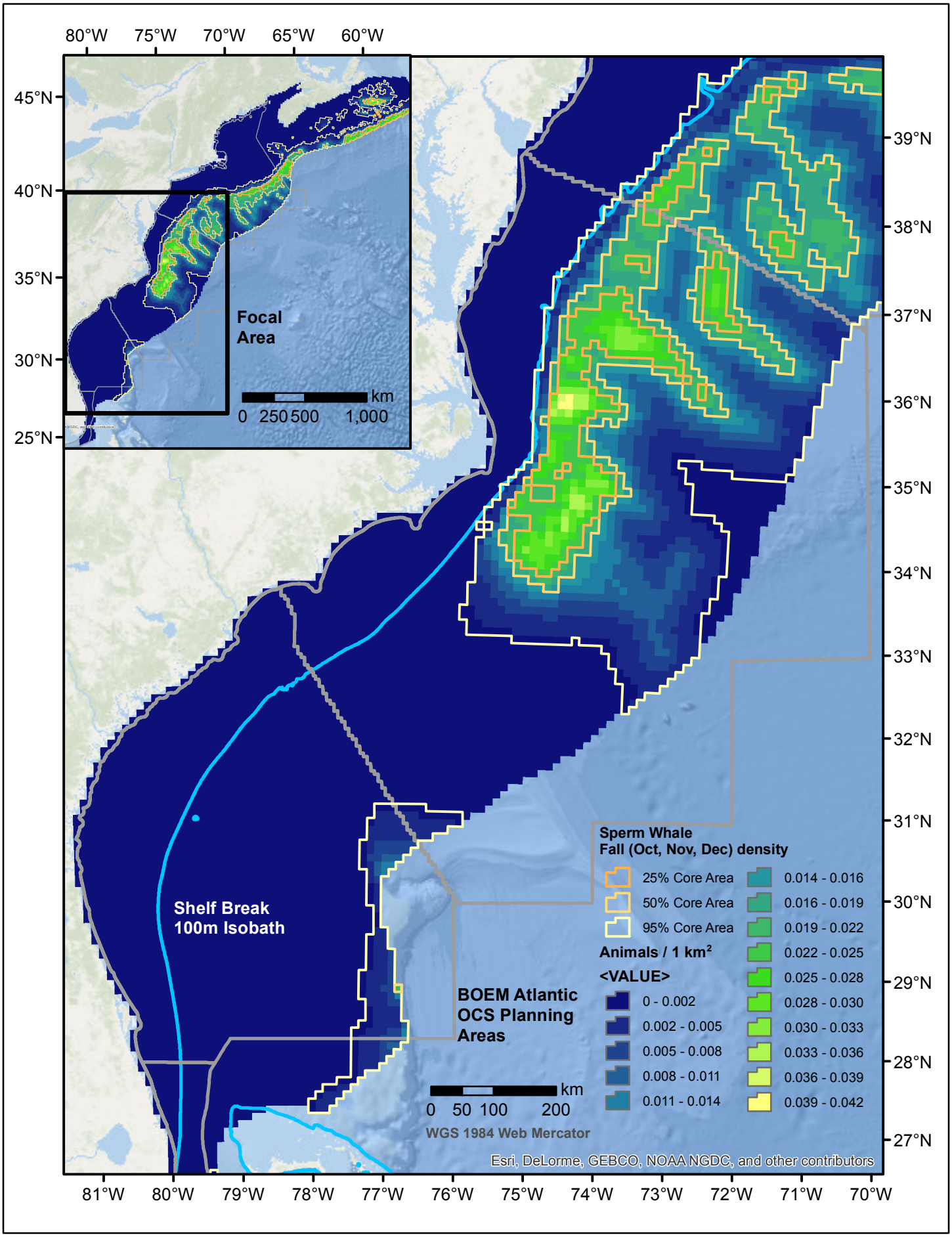
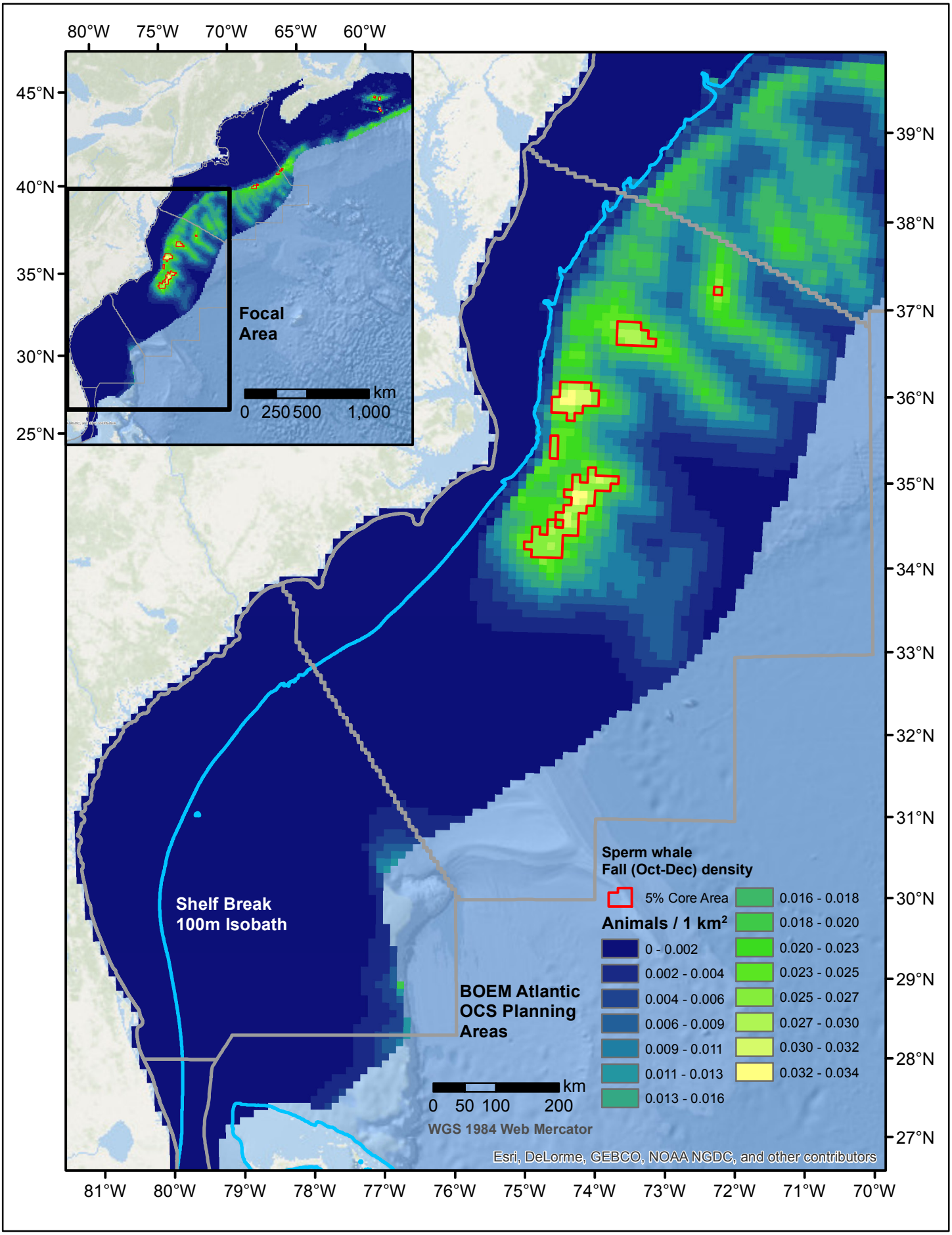
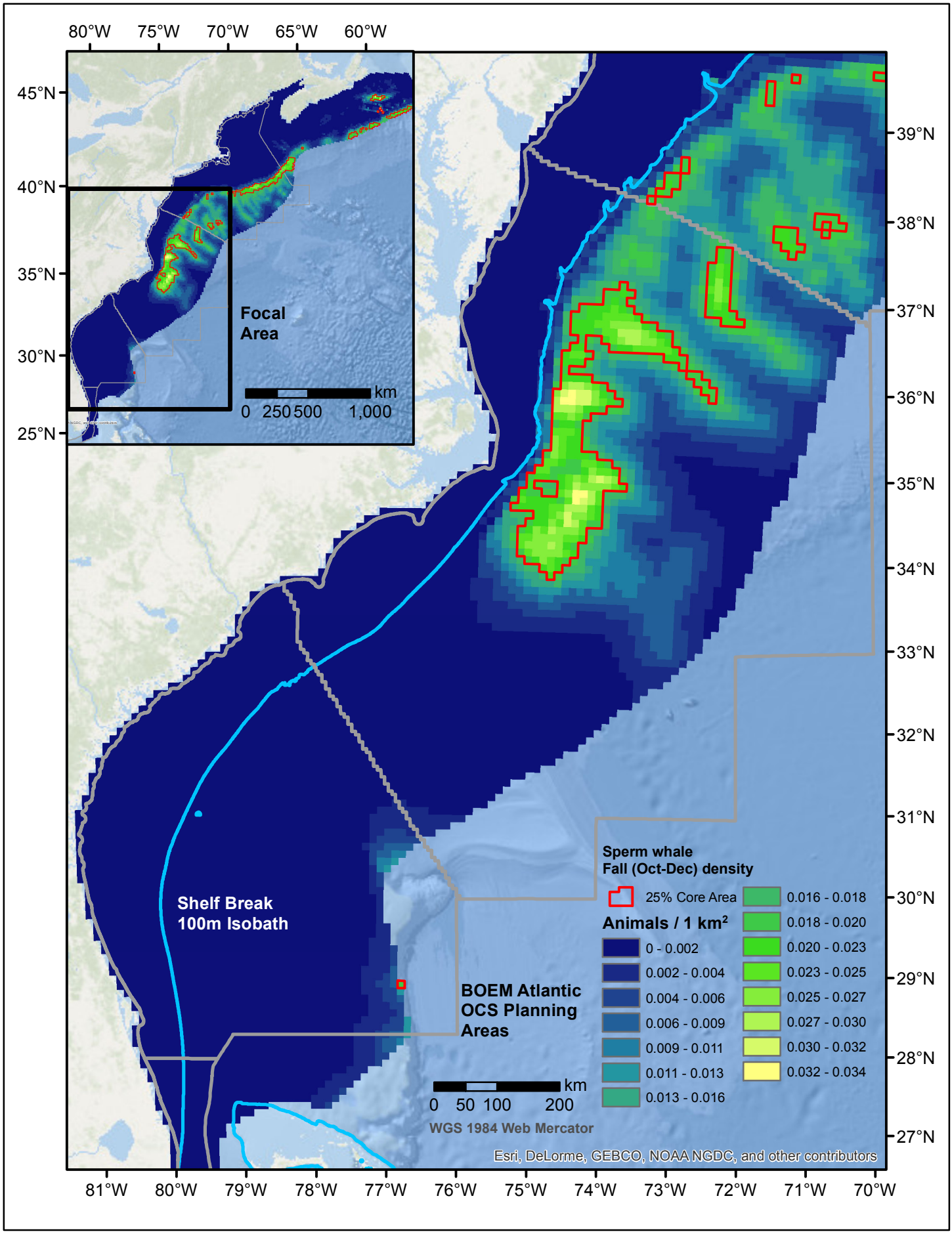
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sperm Whale
Fall (Oct, Nov, Dec) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.002
0.002 - 0.005
0.005 - 0.008
0.008 - 0.011
0.011 - 0.014
0.014 - 0.016
0.016 - 0.019
0.019 - 0.022
0.022 - 0.025
0.025 - 0.028
0.028 - 0.030
0.030 - 0.033
0.033 - 0.036
0.036 - 0.039
0.039 - 0.042
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Sperm whale
Fall (Oct-Dec) density
5% Core Area
Animals / 1 km²
0 - 0.002
0.002 - 0.004
0.004 - 0.006
0.006 - 0.009
0.009 - 0.011
0.011 - 0.013
0.013 - 0.016
0.016 - 0.018
0.018 - 0.020
0.020 - 0.023
0.023 - 0.025
0.025 - 0.027
0.027 - 0.030
0.030 - 0.032
0.032 - 0.034
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
Sperm whale
Fall (Oct-Dec) density
25% Core Area
Animals / 1 km²
0 - 0.002
0.002 - 0.004
0.004 - 0.006
0.006 - 0.009
0.009 - 0.011
0.011 - 0.013
0.013 - 0.016
0.016 - 0.018
0.018 - 0.020
0.020 - 0.023
0.023 - 0.025
0.025 - 0.027
0.027 - 0.030
0.030 - 0.032
0.032 - 0.034
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
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74°W
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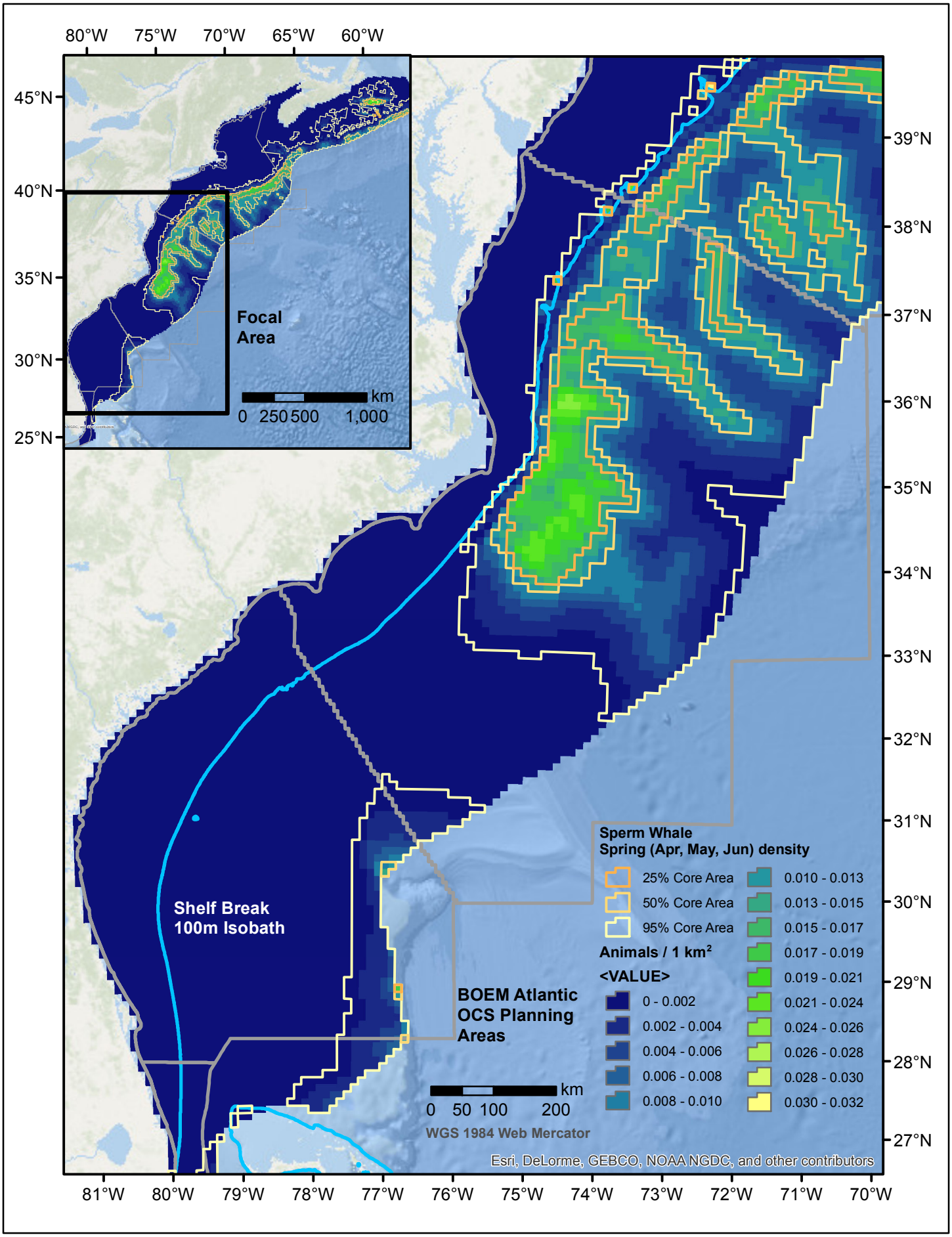
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sperm Whale
Spring (Apr, May, Jun) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.002
0.002 - 0.004
0.004 - 0.006
0.006 - 0.008
0.008 - 0.010
0.010 - 0.013
0.013 - 0.015
0.015 - 0.017
0.017 - 0.019
0.019 - 0.021
0.021 - 0.024
0.024 - 0.026
0.026 - 0.028
0.028 - 0.030
0.030 - 0.032
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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79°W
78°W
77°W
76°W
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74°W
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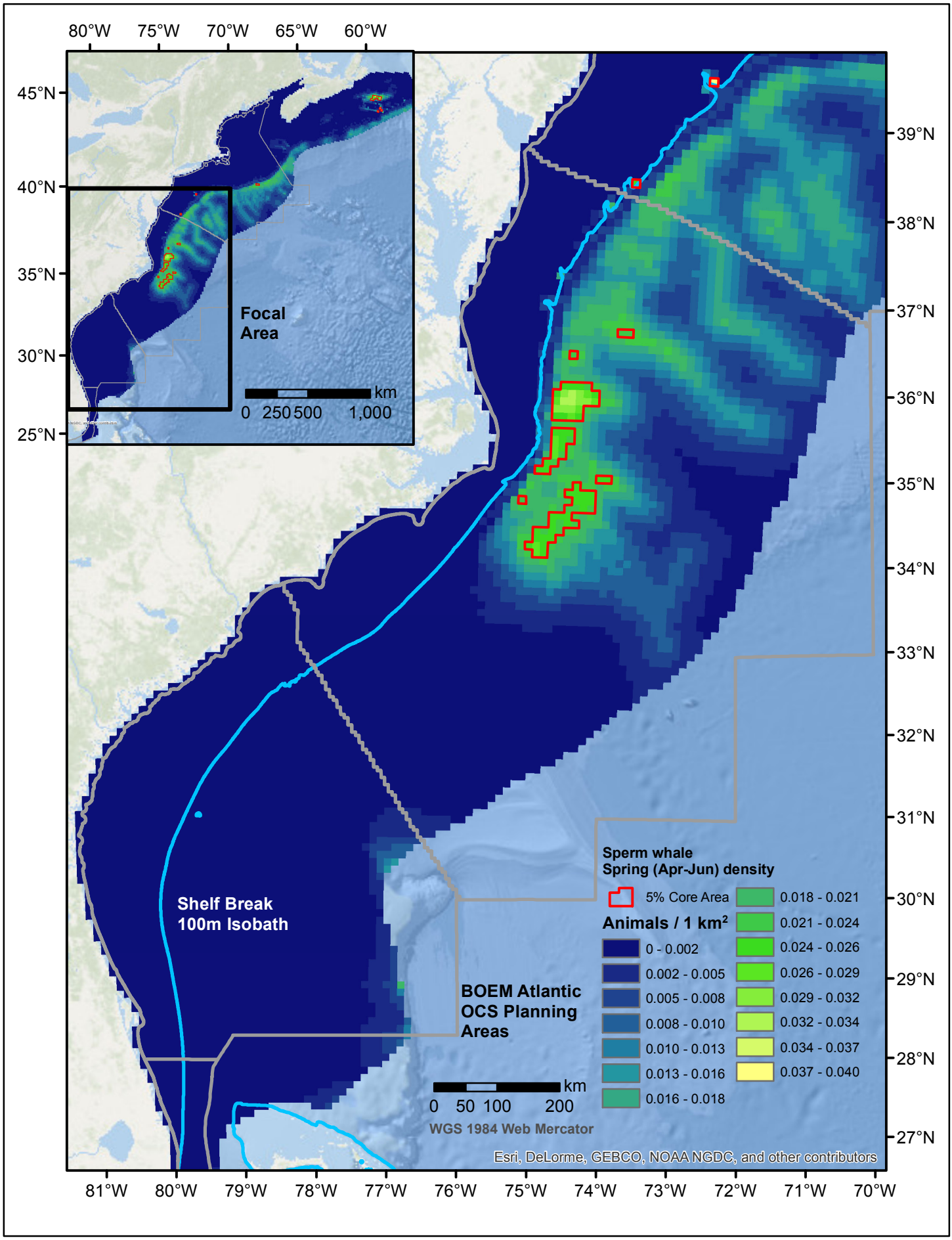
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
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25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
Sperm whale
Spring (Apr-Jun) density
5% Core Area
Animals / 1 km²
0 - 0.002
0.002 - 0.005
0.005 - 0.008
0.008 - 0.010
0.010 - 0.013
0.013 - 0.016
0.016 - 0.018
0.018 - 0.021
0.021 - 0.024
0.024 - 0.026
0.026 - 0.029
0.029 - 0.032
0.032 - 0.034
0.034 - 0.037
0.037 - 0.040
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
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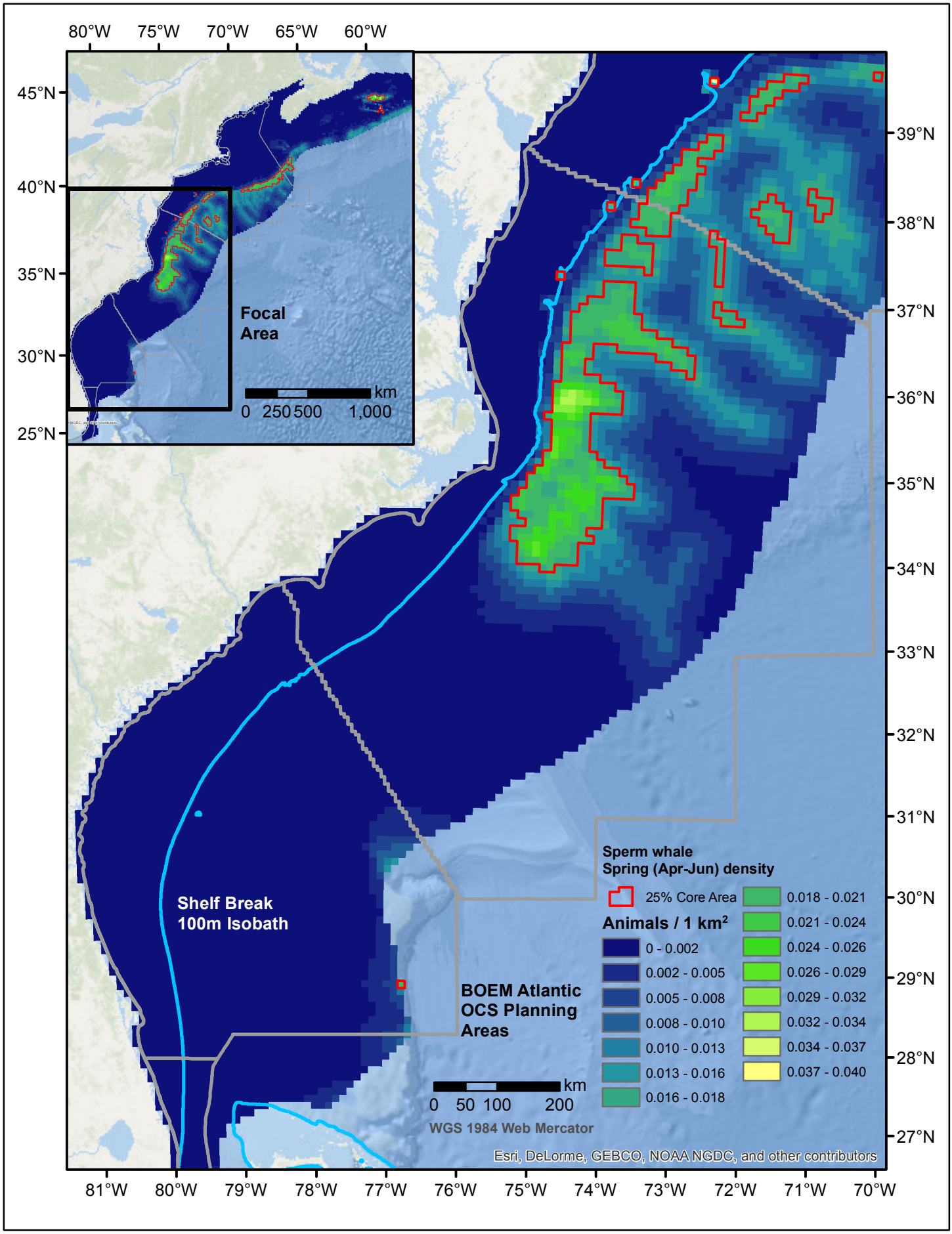
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sperm whale
Spring (Apr-Jun) density
25% Core Area
Animals / 1 km²
0 - 0.002
0.002 - 0.005
0.005 - 0.008
0.008 - 0.010
0.010 - 0.013
0.013 - 0.016
0.016 - 0.018
0.018 - 0.021
0.021 - 0.024
0.024 - 0.026
0.026 - 0.029
0.029 - 0.032
0.032 - 0.034
0.034 - 0.037
0.037 - 0.040
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
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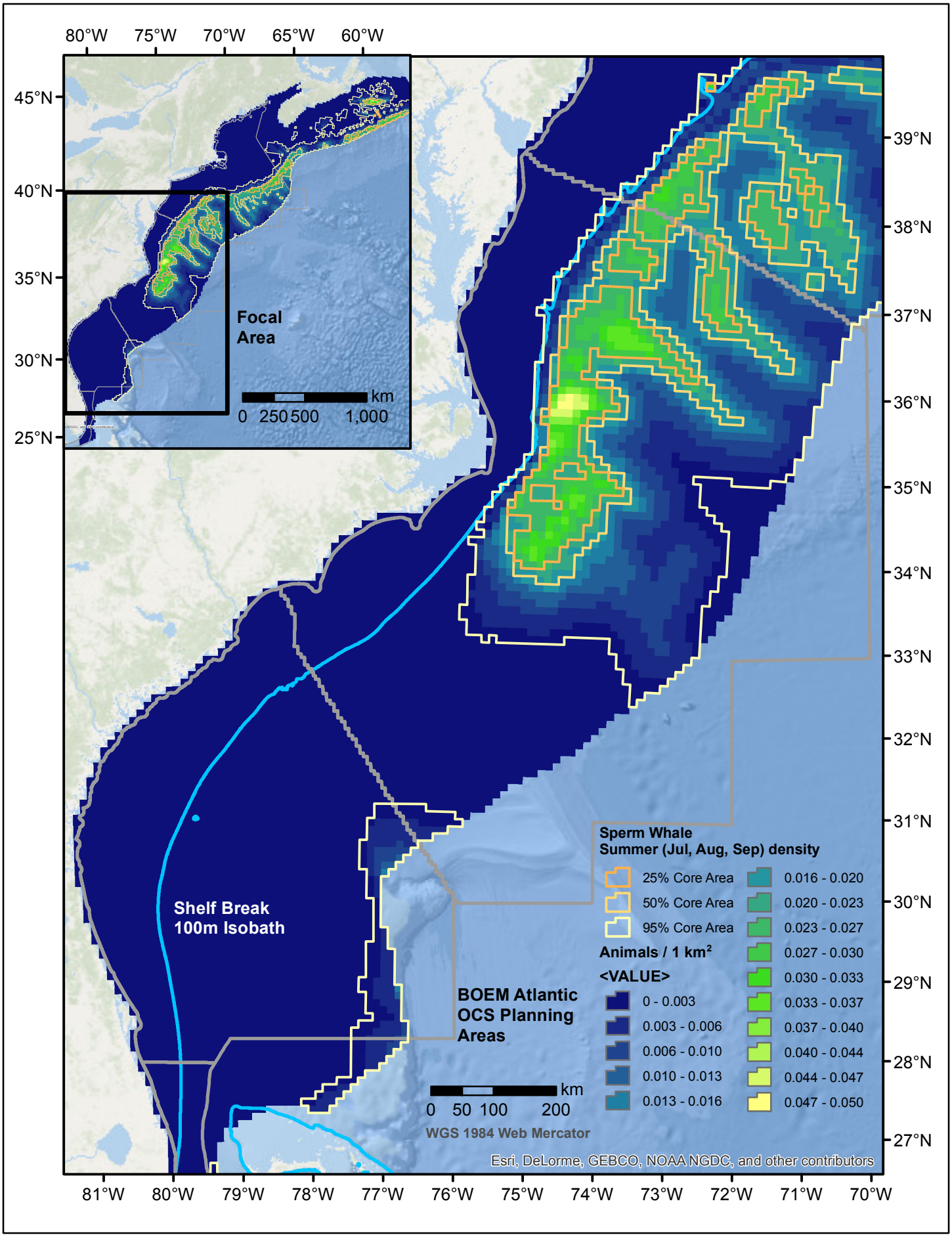
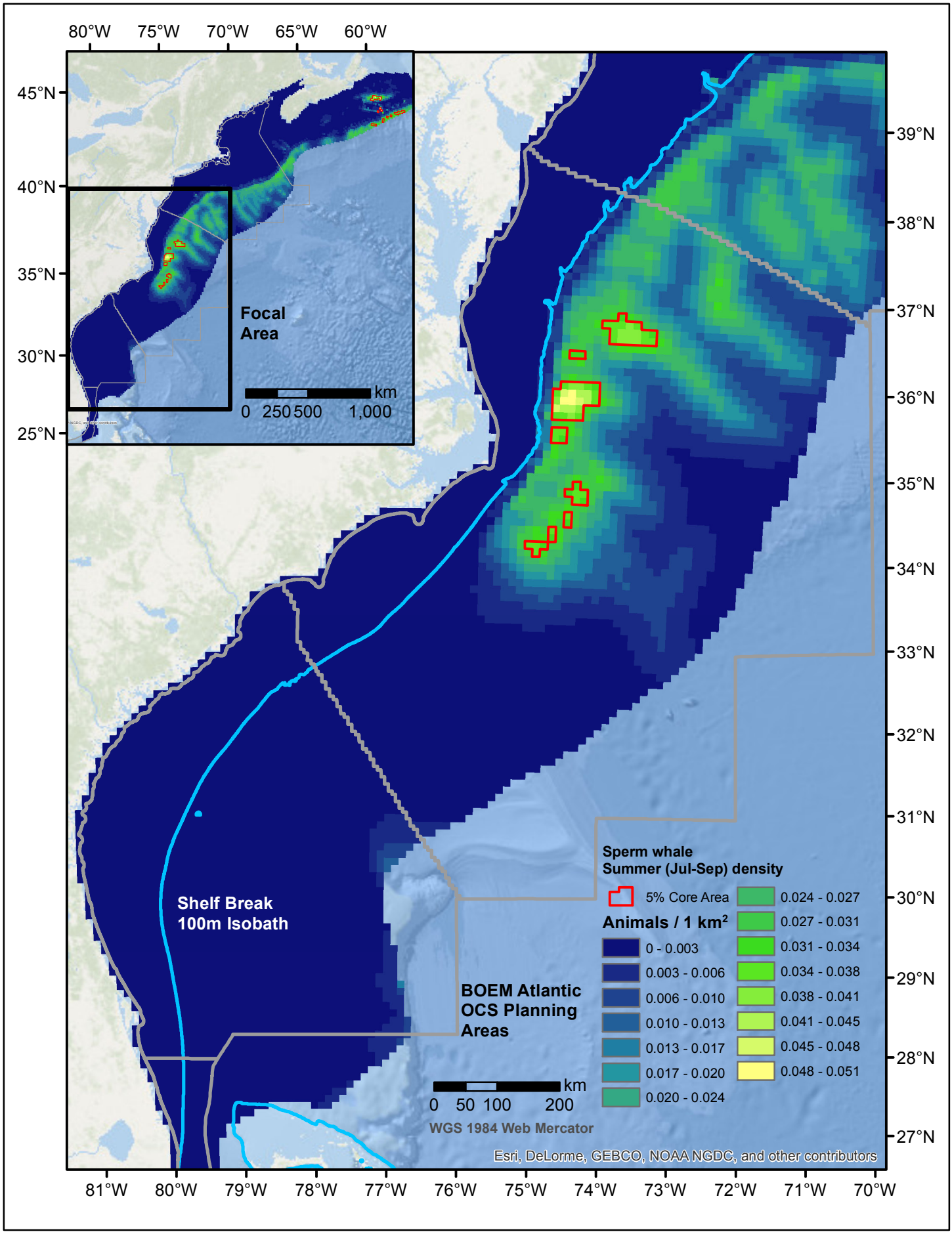
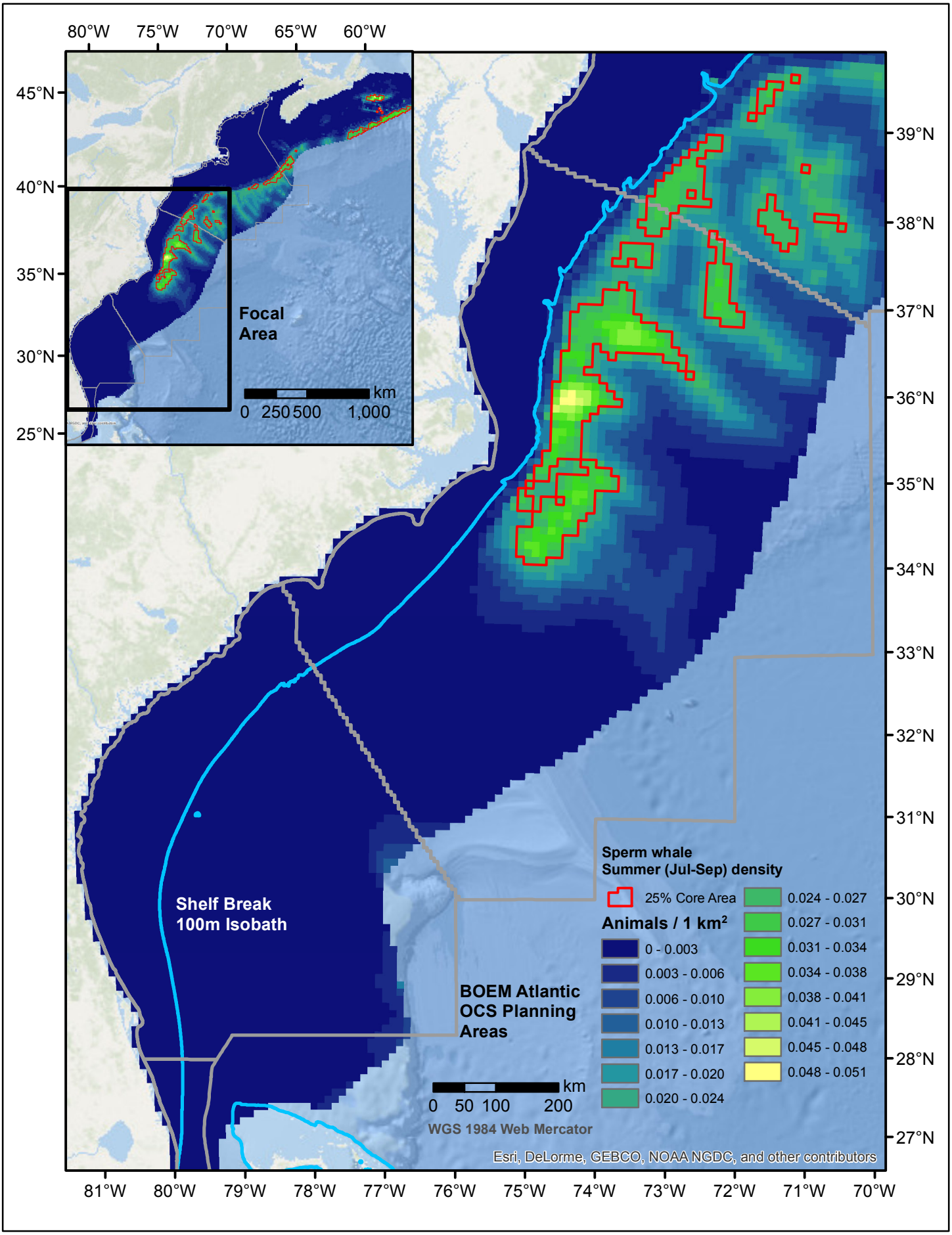
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sperm Whale
Summer (Jul, Aug, Sep) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.003
0.003 - 0.006
0.006 - 0.010
0.010 - 0.013
0.013 - 0.016
0.016 - 0.020
0.020 - 0.023
0.023 - 0.027
0.027 - 0.030
0.030 - 0.033
0.033 - 0.037
0.037 - 0.040
0.040 - 0.044
0.044 - 0.047
0.047 - 0.050
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sperm whale
Summer (Jul-Sep) density
5% Core Area
Animals / 1 km²
0 - 0.003
0.003 - 0.006
0.006 - 0.010
0.010 - 0.013
0.013 - 0.017
0.017 - 0.020
0.020 - 0.024
0.024 - 0.027
0.027 - 0.031
0.031 - 0.034
0.034 - 0.038
0.038 - 0.041
0.041 - 0.045
0.045 - 0.048
0.048 - 0.051
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Sperm whale
Summer (Jul-Sep) density
25% Core Area
Animals / 1 km²
0 - 0.003
0.003 - 0.006
0.006 - 0.010
0.010 - 0.013
0.013 - 0.017
0.017 - 0.020
0.020 - 0.024
0.024 - 0.027
0.027 - 0.031
0.031 - 0.034
0.034 - 0.038
0.038 - 0.041
0.041 - 0.045
0.045 - 0.048
0.048 - 0.051
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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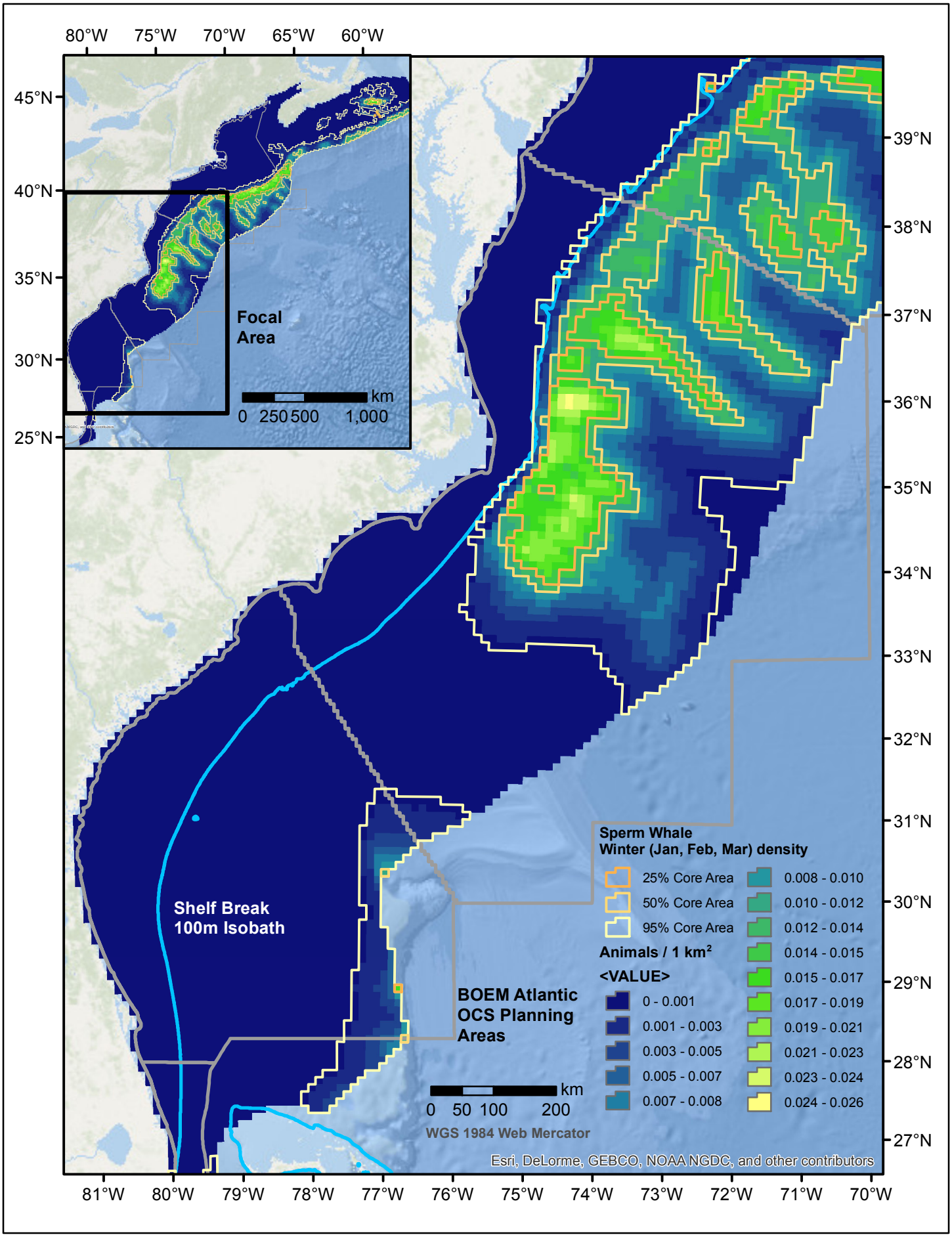
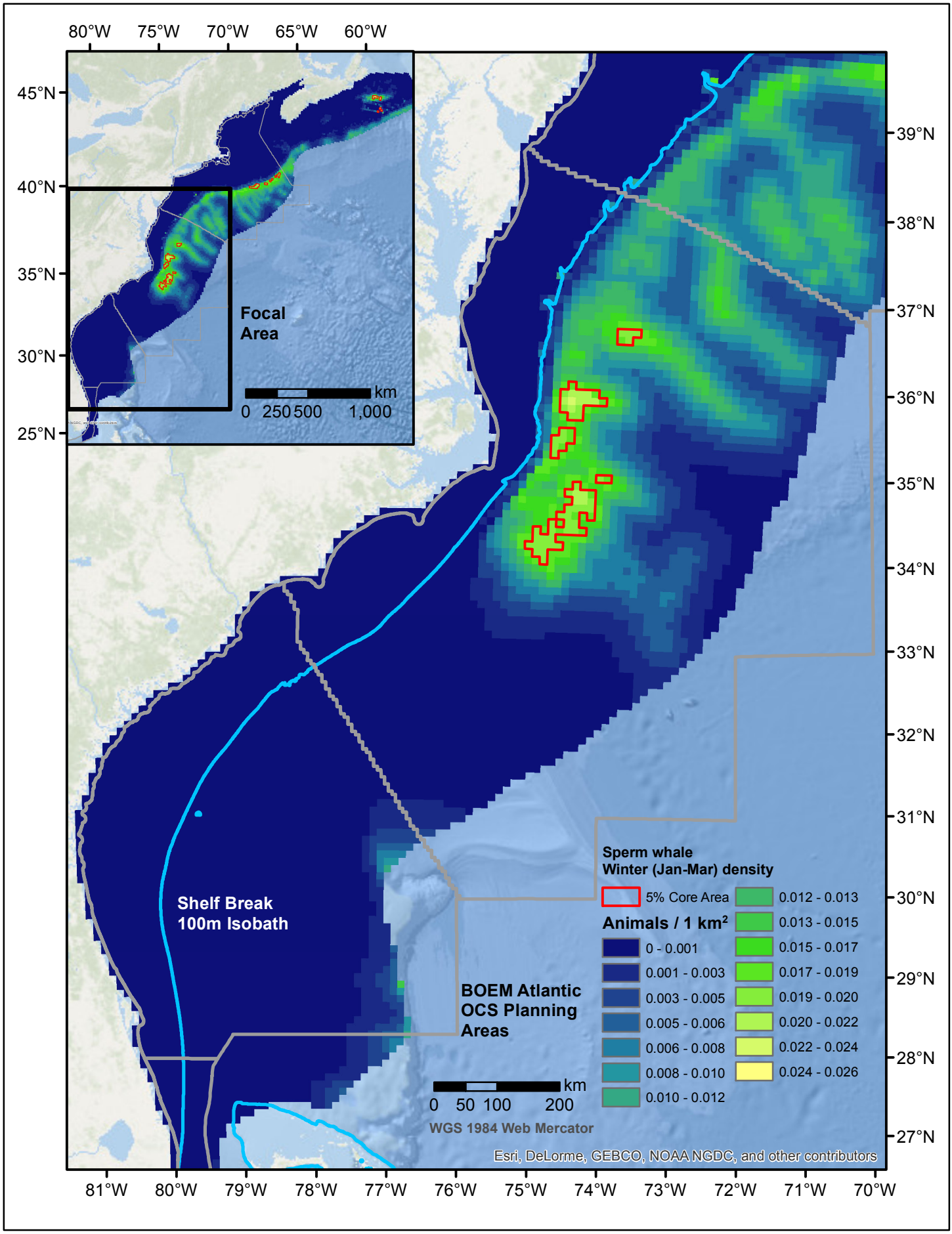
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Sperm Whale
Winter (Jan, Feb, Mar) density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.001
0.001 - 0.003
0.003 - 0.005
0.005 - 0.007
0.007 - 0.008
0.008 - 0.010
0.010 - 0.012
0.012 - 0.014
0.014 - 0.015
0.015 - 0.017
0.017 - 0.019
0.019 - 0.021
0.021 - 0.023
0.023 - 0.024
0.024 - 0.026
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
73°W
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
Sperm whale
Winter (Jan-Mar) density
5% Core Area
Animals / 1 km²
0 - 0.001
0.001 - 0.003
0.003 - 0.005
0.005 - 0.006
0.006 - 0.008
0.008 - 0.010
0.010 - 0.012
0.012 - 0.013
0.013 - 0.015
0.015 - 0.017
0.017 - 0.019
0.019 - 0.020
0.020 - 0.022
0.022 - 0.024
0.024 - 0.026
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
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74°W
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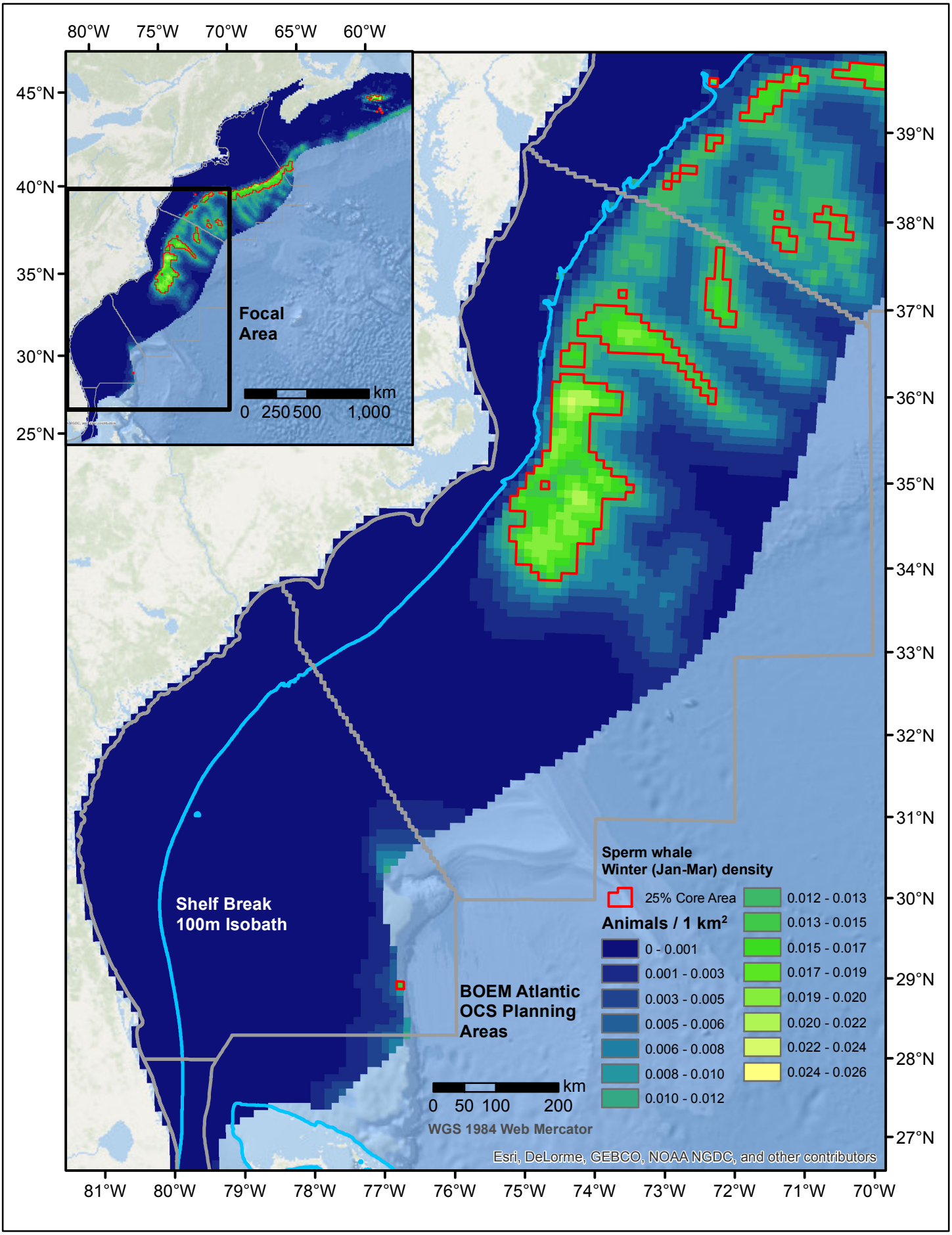
72°W
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
0 250 500 1,000
39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break
100m Isobath
BOEM Atlantic
OCS Planning
Areas
km
0 50 100 200
WGS 1984 Web Mercator
Sperm whale
Winter (Jan-Mar) density
25% Core Area
Animals / 1 km²
0 - 0.001
0.001 - 0.003
0.003 - 0.005
0.005 - 0.006
0.006 - 0.008
0.008 - 0.010
0.010 - 0.012
0.012 - 0.013
0.013 - 0.015
0.015 - 0.017
0.017 - 0.019
0.019 - 0.020
0.020 - 0.022
0.022 - 0.024
0.024 - 0.026
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
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74°W
73°W
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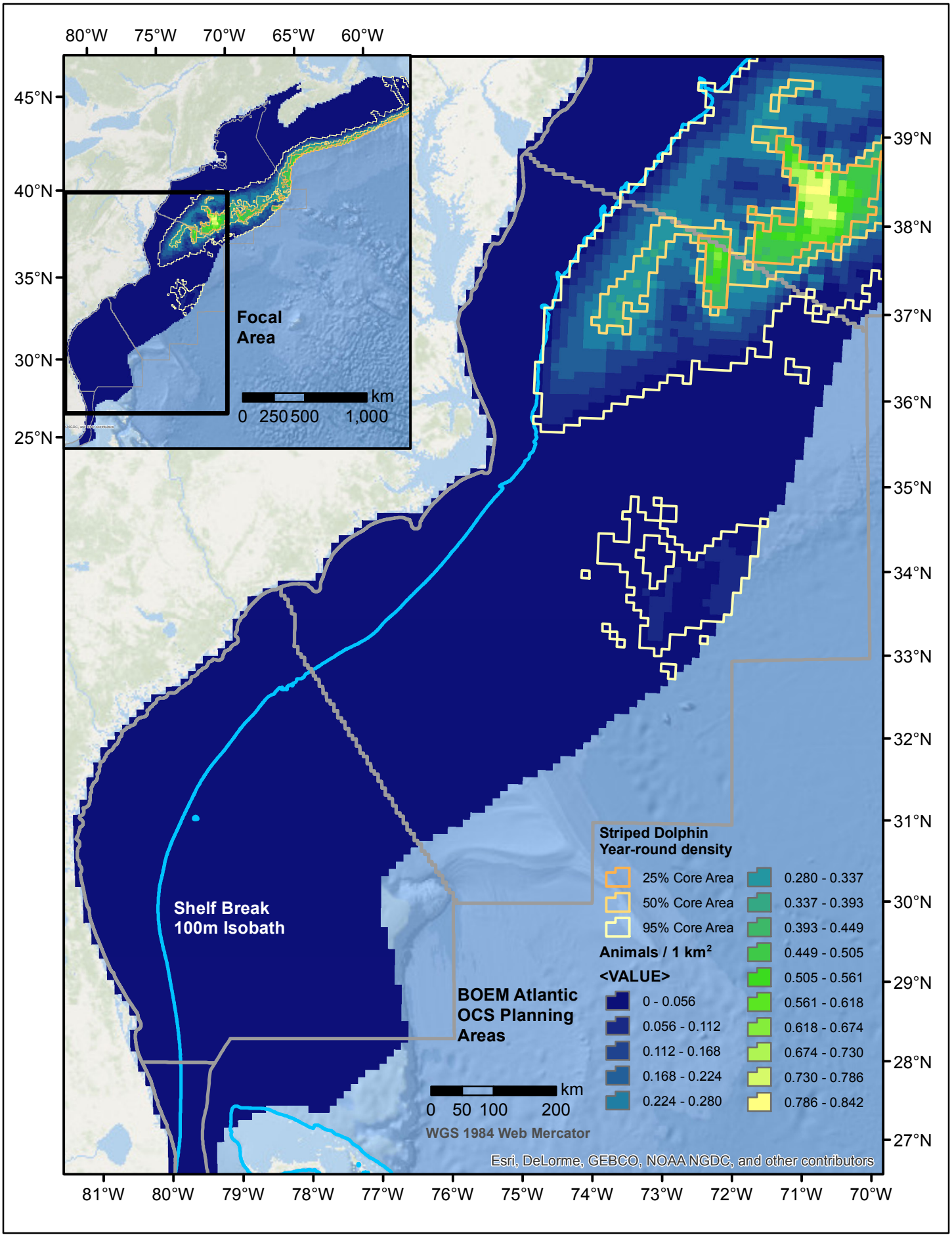
71°W
70°W


80°W
75°W
70°W
65°W
60°W
45°N
40°N
35°N
30°N
25°N
Focal Area
km
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39°N
38°N
37°N
36°N
35°N
34°N
33°N
32°N
31°N
30°N
29°N
28°N
27°N
Shelf Break 100m Isobath
BOEM Atlantic OCS Planning Areas
Striped Dolphin Year-round density
25% Core Area
50% Core Area
95% Core Area
Animals / 1 km²
<VALUE>
0 - 0.056
0.056 - 0.112
0.112 - 0.168
0.168 - 0.224
0.224 - 0.280
0.280 - 0.337
0.337 - 0.393
0.393 - 0.449
0.449 - 0.505
0.505 - 0.561
0.561 - 0.618
0.618 - 0.674
0.674 - 0.730
0.730 - 0.786
0.786 - 0.842
km
0 50 100 200
WGS 1984 Web Mercator
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
81°W
80°W
79°W
78°W
77°W
76°W
75°W
74°W
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72°W
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70°W