DRAFT – VMS Corridor Analysis

Methods

Currently DAS are allocated to the limited access fishery based on an estimate of projected catch in open areas divided by an estimate of average catch per day for all LA vessels combined. This estimate of catch per DAS uses "DAS charged"; the time between when a vessel crosses the VMS demarcation line on the way out, and the way back. Framework 26 is considering measures to allow a vessel more flexibility to get off the clock on the return to port, which would have impacts on the DAS charged value, thus the LPUE estimate.

One alternative includes a specific VMS corridor from Montauk, NY to Cape Henry, VA. And the second alternative would allow a vessel to declare out of the fishery once it crosses the VMS demarcation line at any point. Under each scenario, some amount of time that is currently part of "DAS charged", would no longer be charged. That will have some effect on future estimates per DAS. The PDT has begun to develop a method for estimating those potential effects.

VMS data have been summarized by ten minute square for all LA vessels. In addition to the raw VMS data, these analyses also use model results from a NEFSC project that has calculated the probability that a vessel is fishing or steaming for each VMS poll by fishery (D. Records and C. Demarest, In draft).

Trips that had VMS pollings within scallop access areas were removed, leaving just open area trips for the last five years of VMS data available (2008-2012). These data were mapped in three ways to help identify open area fishing hot spots. The maps created are: 1) mean speed per TMS ; probability of fishing per TMS; and total hours fished per TMS in DAS.

A map of total DAS fished for LA open area trips is summarized below for 2008-2012 (Figure 1). This map was used to identify five general hot spots in open areas (3 on GB and 2 in MA). These hot spots do change over time and a similar map was developed for each year separately (Figure 2).

Next limited access vessels were separated into a series of homeport groups based on permit data. All vessels were put in one of five homeport state groups:

1) All New England states (ME, NH, MA, RI, CT = MA) (Figure 3 and Figure 4)
2) Northern Mid-Atlantic (NY, NJ, MD, DE = NJ) (Figure 5 - Figure 7)
3) Southern Mid-Atlantic (VA and NC = VA) (Figure 8 - Figure 10)

Figure 1 – Total days fished for 2008-2012 for all open area LA trips based on VMS model

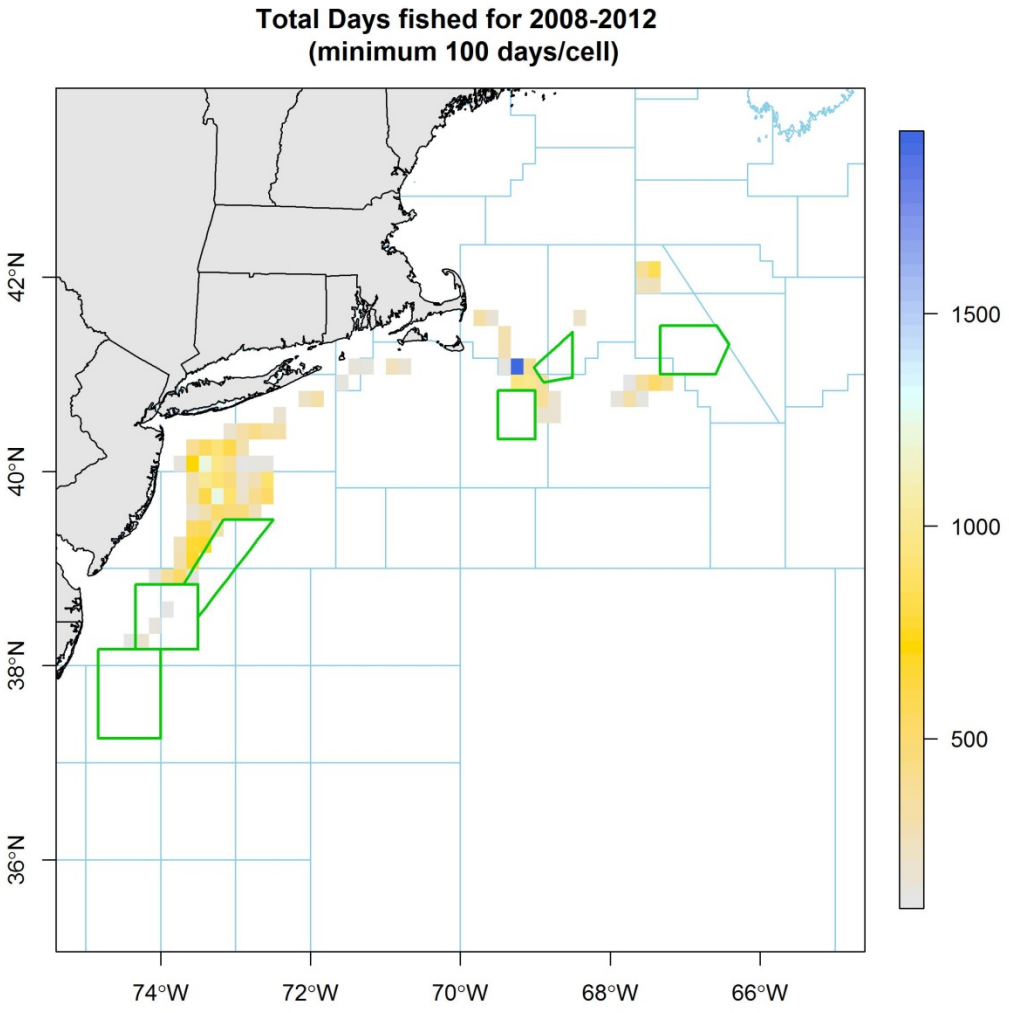

Figure 2 - Total days fished by year all open area LA trips based on VMS model

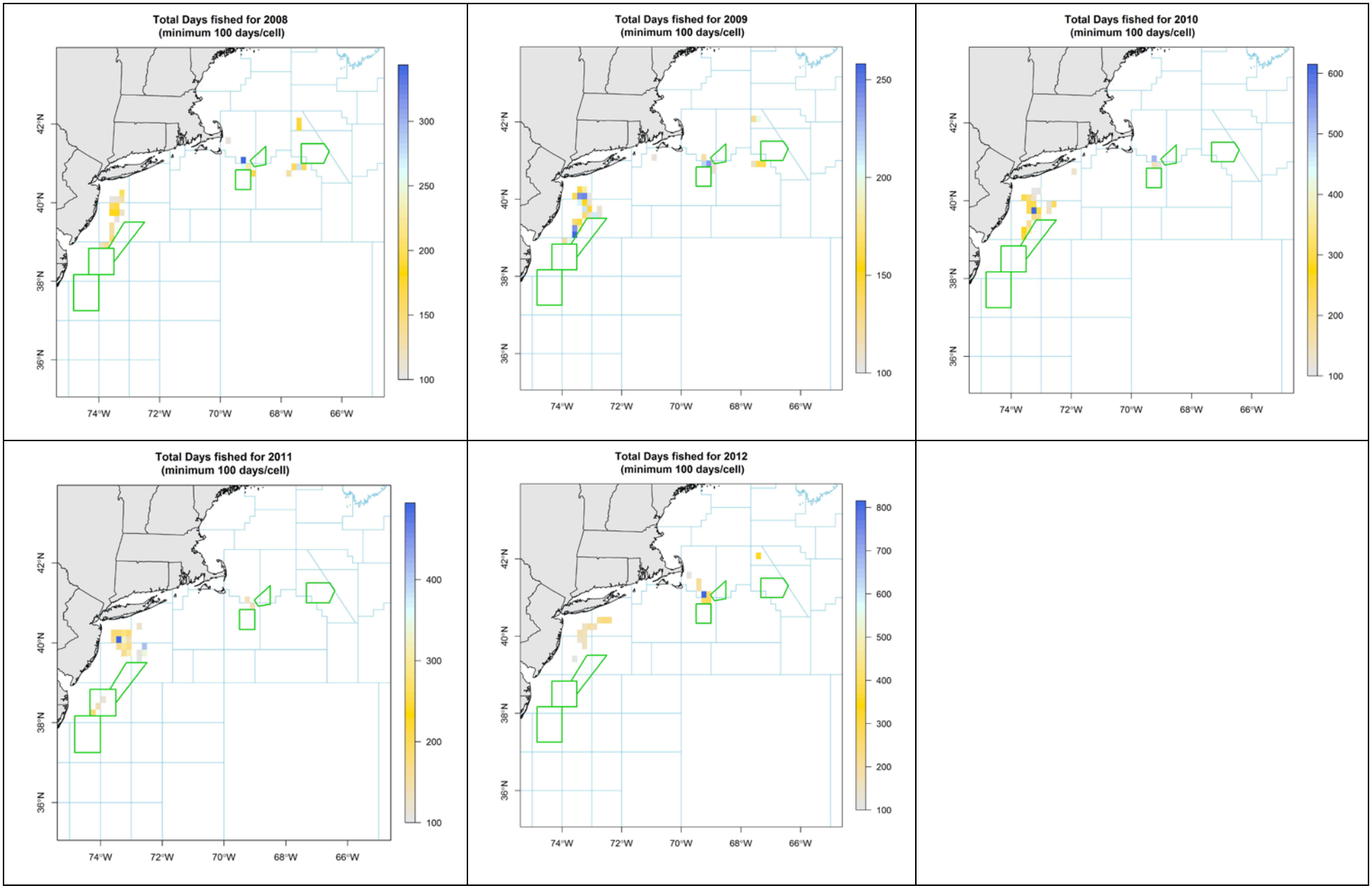

Figure 3

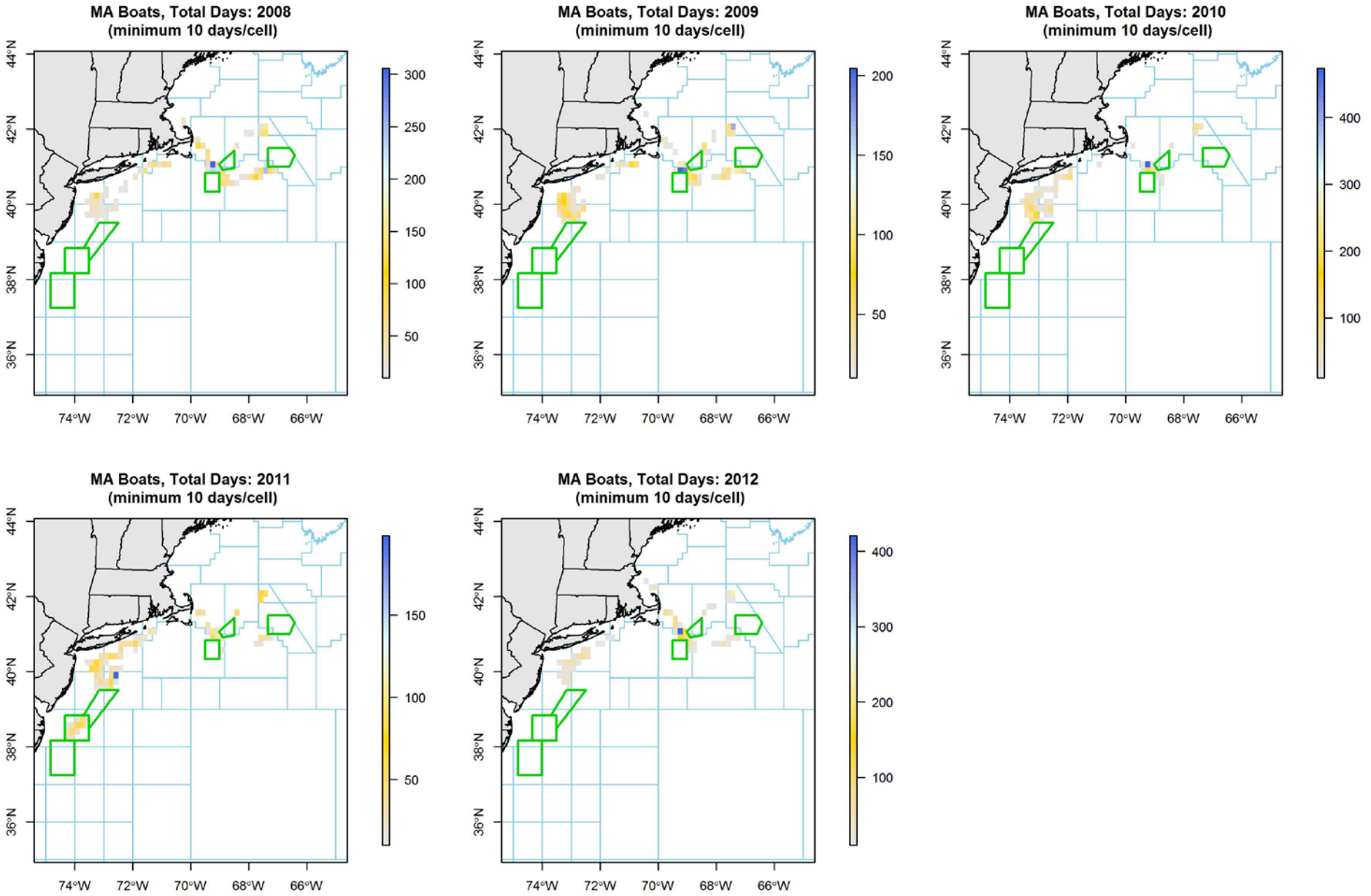
MA Boats, Total Days: 2008
(minimum 10 days/cell)
MA Boats, Total Days: 2009
(minimum 10 days/cell)
MA Boats, Total Days: 2010
(minimum 10 days/cell)
MA Boats, Total Days: 2011
(minimum 10 days/cell)
MA Boats, Total Days: 2012
(minimum 10 days/cell)
44°N
42°N
40°N
38°N
36°N
74°W
72°W
70°W
68°W
66°W

Figure 4

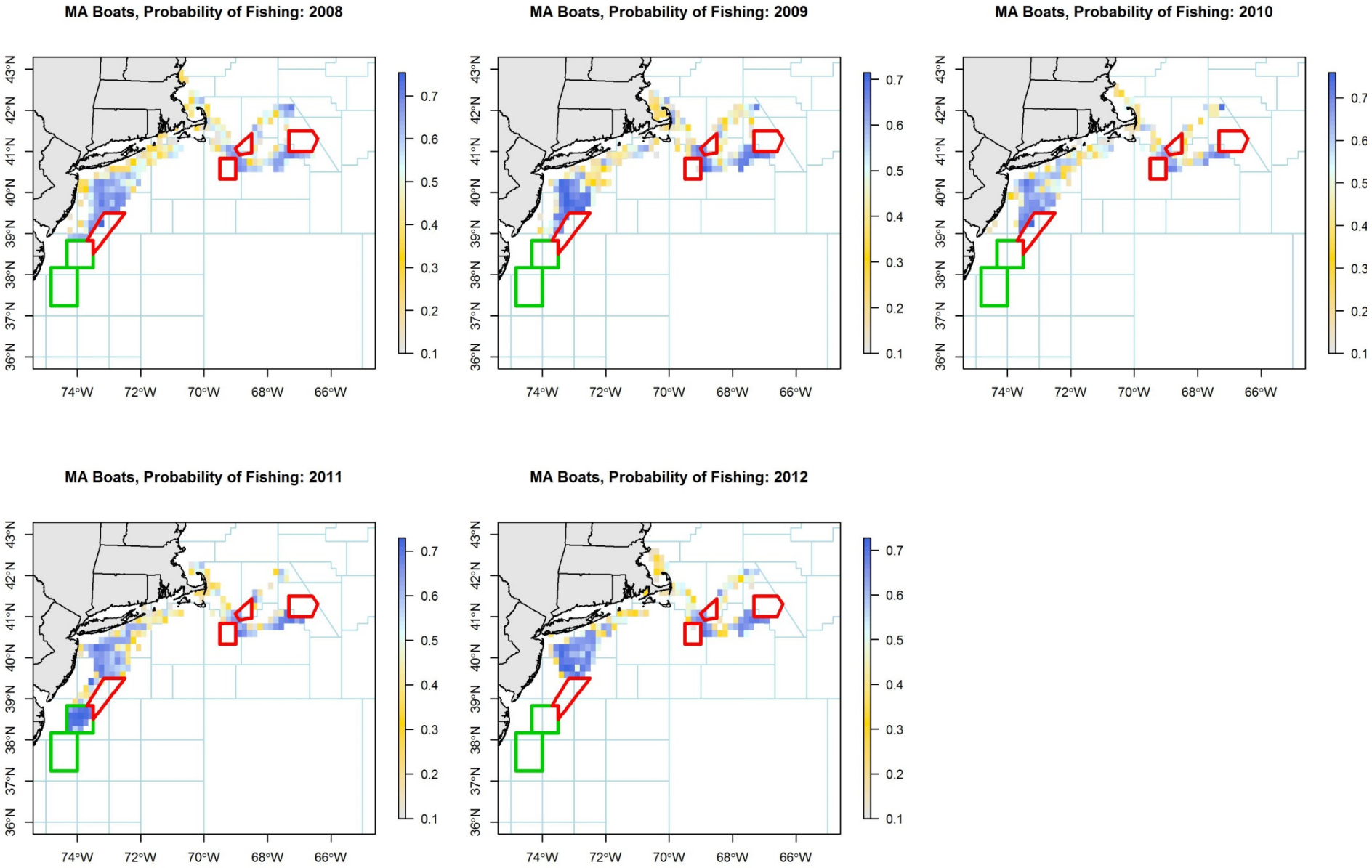
MA Boats, Probability of Fishing: 2008
MA Boats, Probability of Fishing: 2009
MA Boats, Probability of Fishing: 2010
MA Boats, Probability of Fishing: 2011
MA Boats, Probability of Fishing: 2012
43°N
42°N
41°N
40°N
39°N
38°N
37°N
36°N
74°W
72°W
70°W
68°W
66°W
0.7
0.6
0.5
0.4
0.3
0.2
0.1

Figure 5

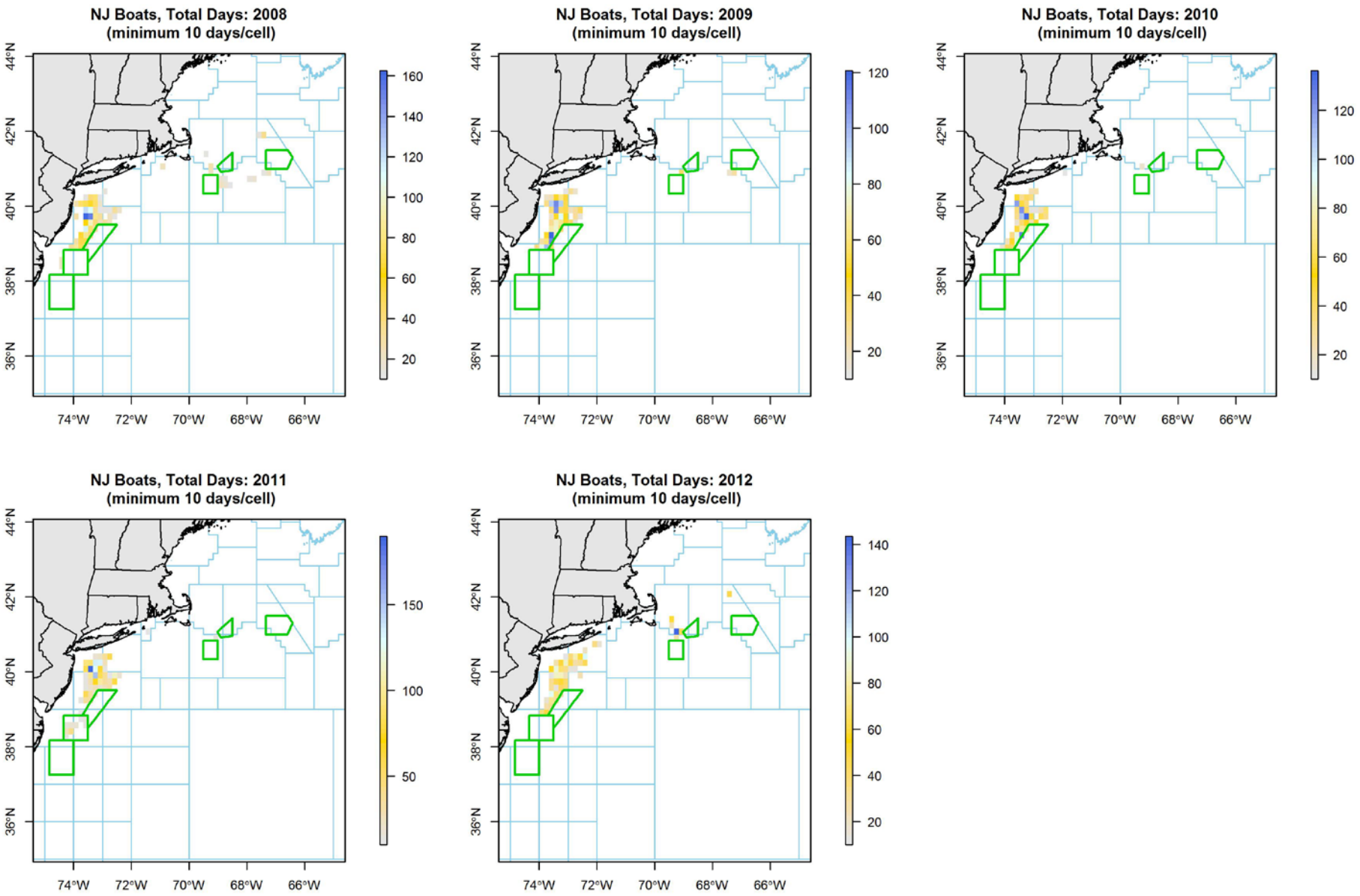
NJ Boats, Total Days: 2008
(minimum 10 days/cell)
NJ Boats, Total Days: 2009
(minimum 10 days/cell)
NJ Boats, Total Days: 2010
(minimum 10 days/cell)
NJ Boats, Total Days: 2011
(minimum 10 days/cell)
NJ Boats, Total Days: 2012
(minimum 10 days/cell)
44°N
42°N
40°N
38°N
36°N
74°W
72°W
70°W
68°W
66°W

Figure 6

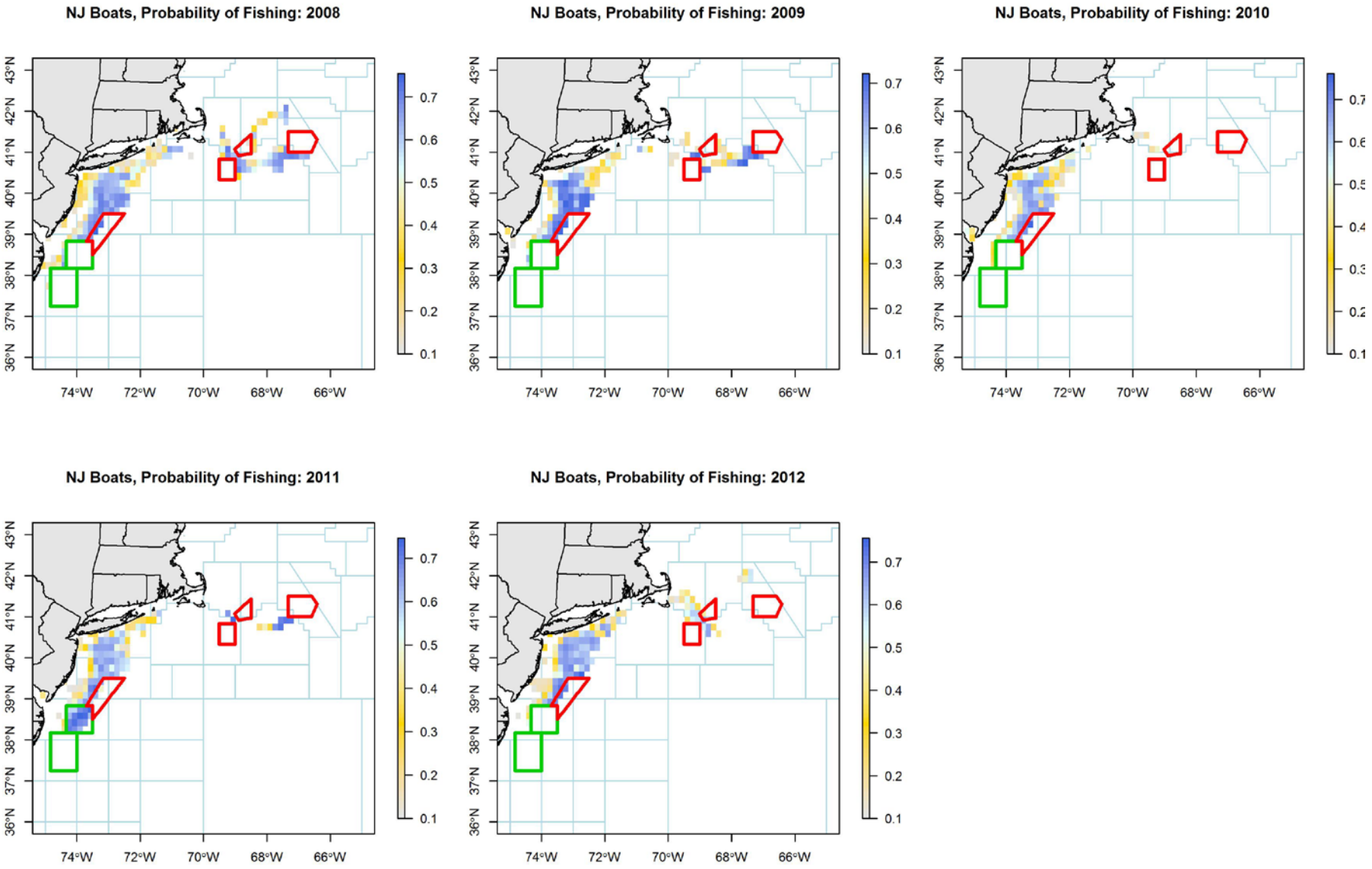
NJ Boats, Probability of Fishing: 2008
NJ Boats, Probability of Fishing: 2009
NJ Boats, Probability of Fishing: 2010
NJ Boats, Probability of Fishing: 2011
NJ Boats, Probability of Fishing: 2012
43°N
42°N
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Figure 7

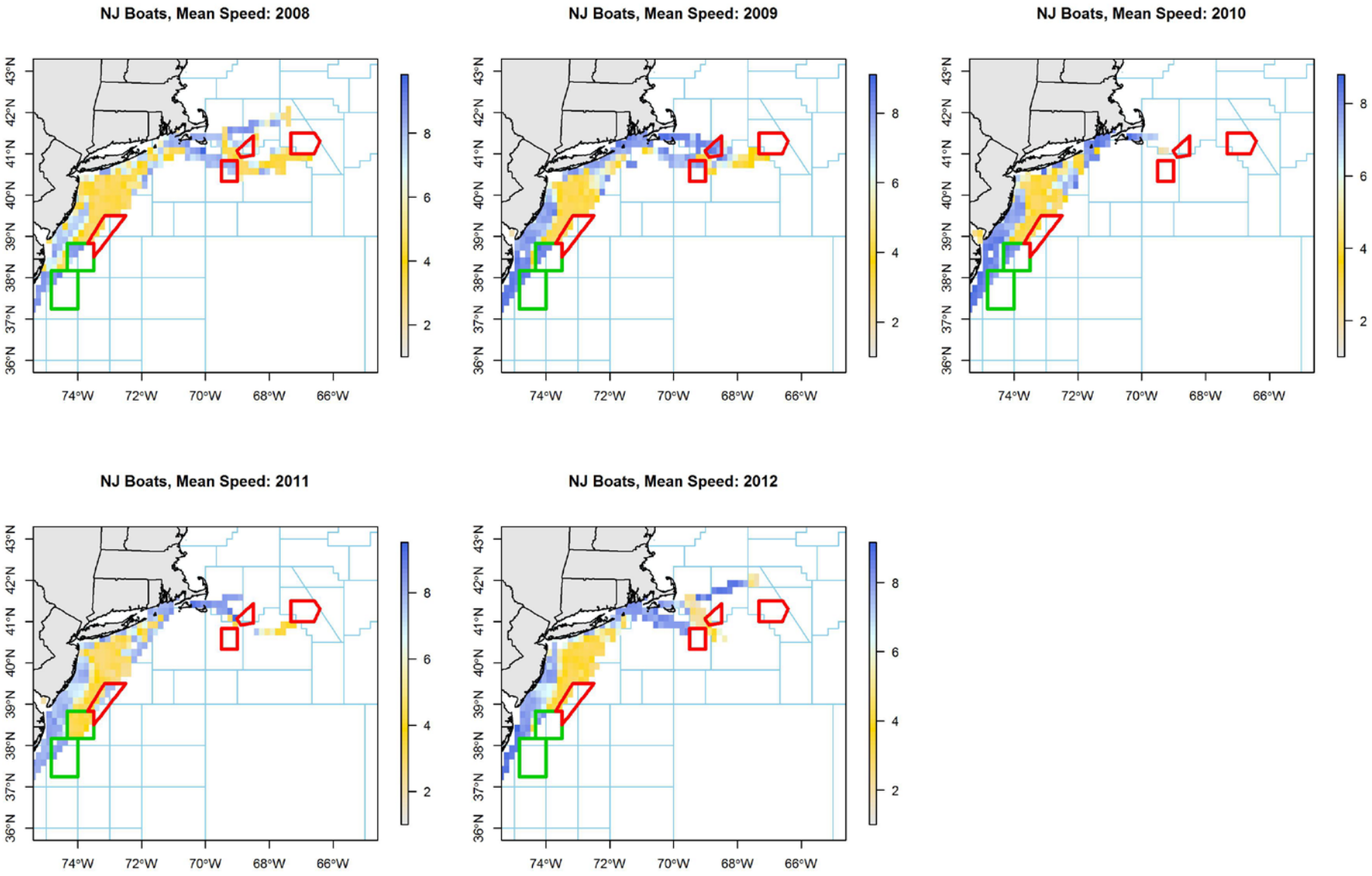
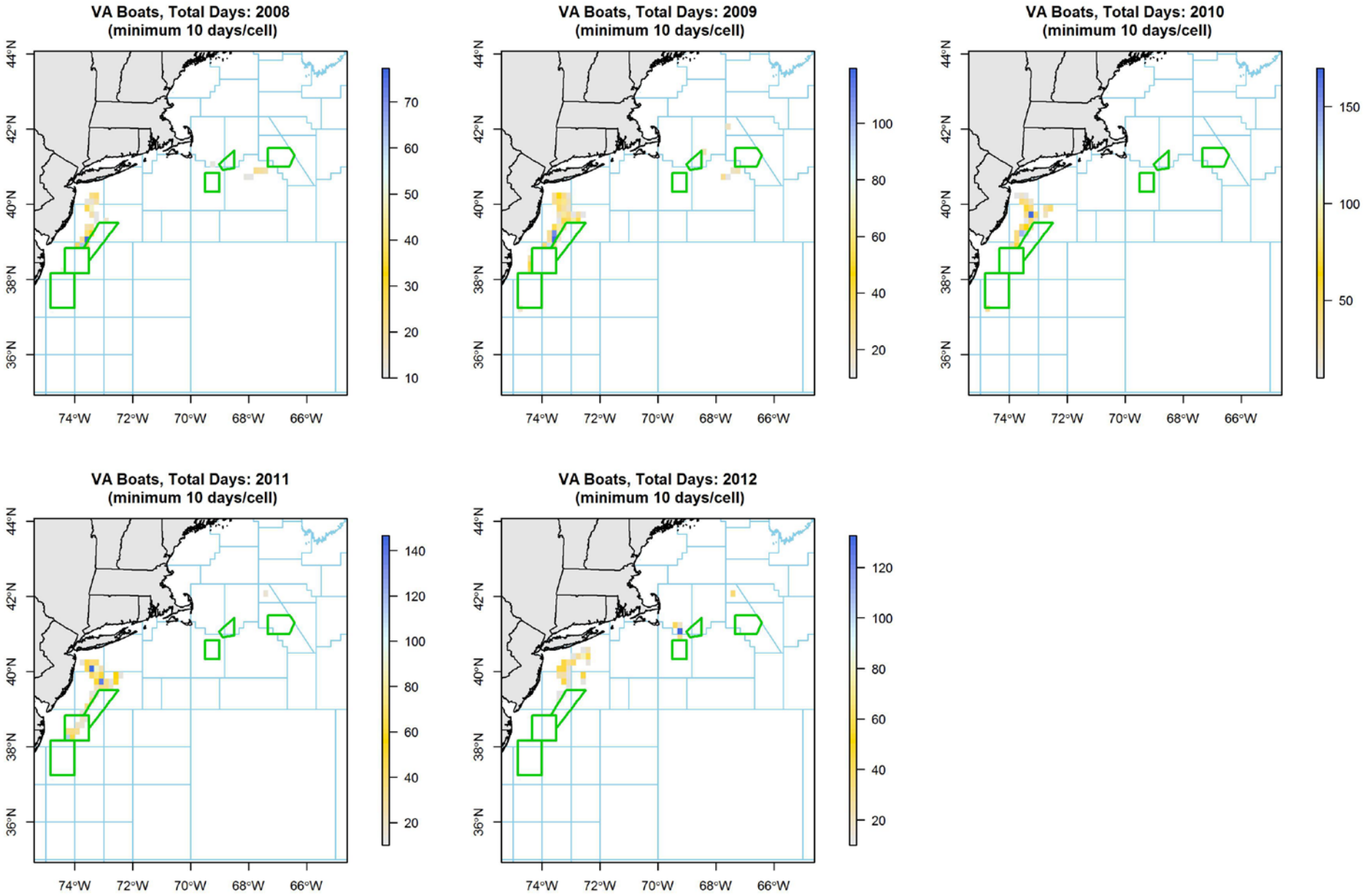

NJ Boats, Mean Speed: 2008
NJ Boats, Mean Speed: 2009
NJ Boats, Mean Speed: 2010
NJ Boats, Mean Speed: 2011
NJ Boats, Mean Speed: 2012
43°N
42°N
41°N
40°N
39°N
38°N
37°N
36°N
74°W
72°W
70°W
68°W
66°W
2
4
6
8

Figure 8


VA Boats, Total Days: 2008
(minimum 10 days/cell)
VA Boats, Total Days: 2009
(minimum 10 days/cell)
VA Boats, Total Days: 2010
(minimum 10 days/cell)
VA Boats, Total Days: 2011
(minimum 10 days/cell)
VA Boats, Total Days: 2012
(minimum 10 days/cell)
44°N
42°N
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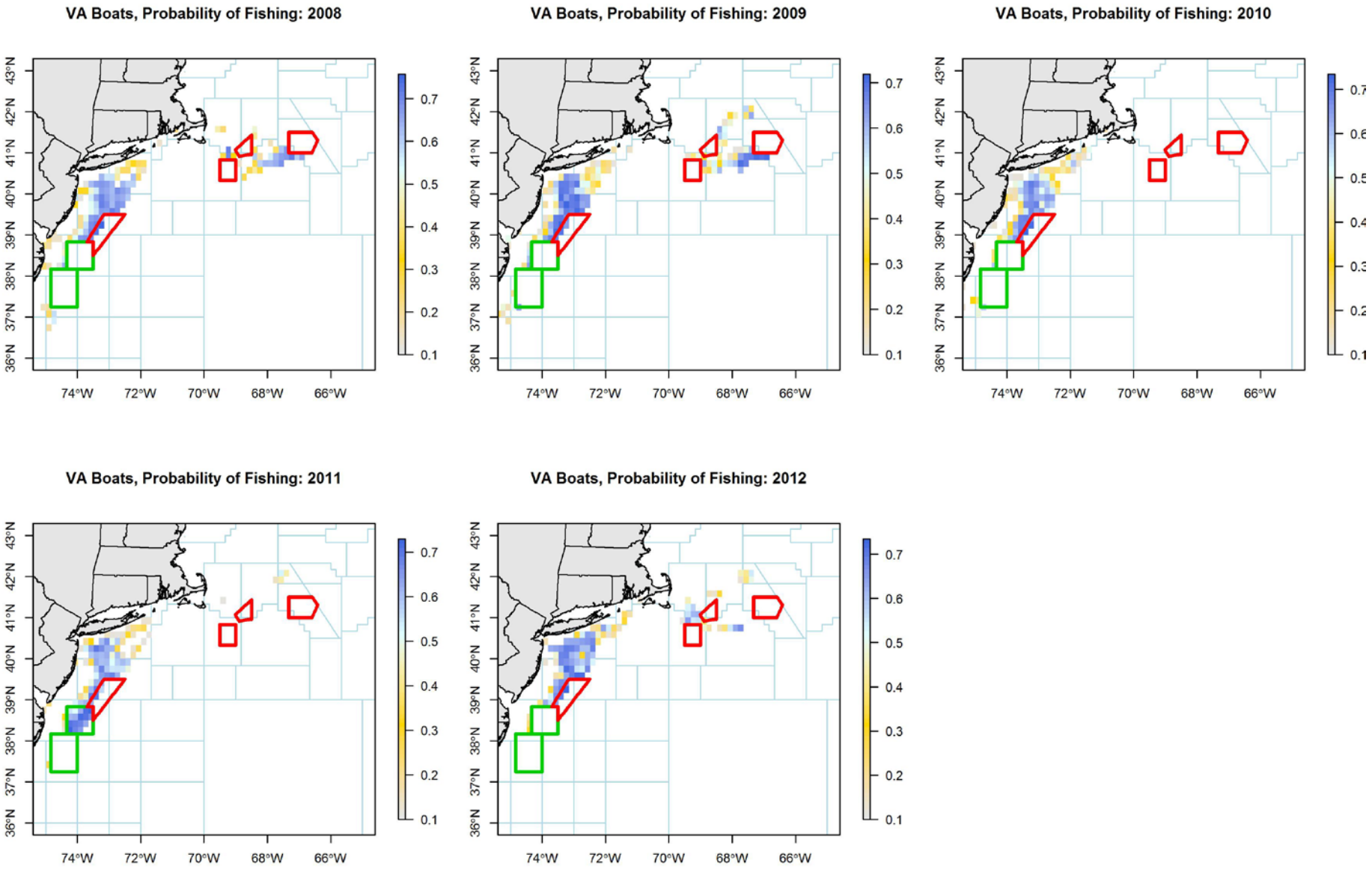
38°N
36°N
74°W
72°W
70°W
68°W
66°W

Figure 9


VA Boats, Probability of Fishing: 2008
VA Boats, Probability of Fishing: 2009
VA Boats, Probability of Fishing: 2010
VA Boats, Probability of Fishing: 2011
VA Boats, Probability of Fishing: 2012
43°N
42°N
41°N
40°N
39°N
38°N
37°N
36°N
74°W
72°W
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68°W
66°W
0.7
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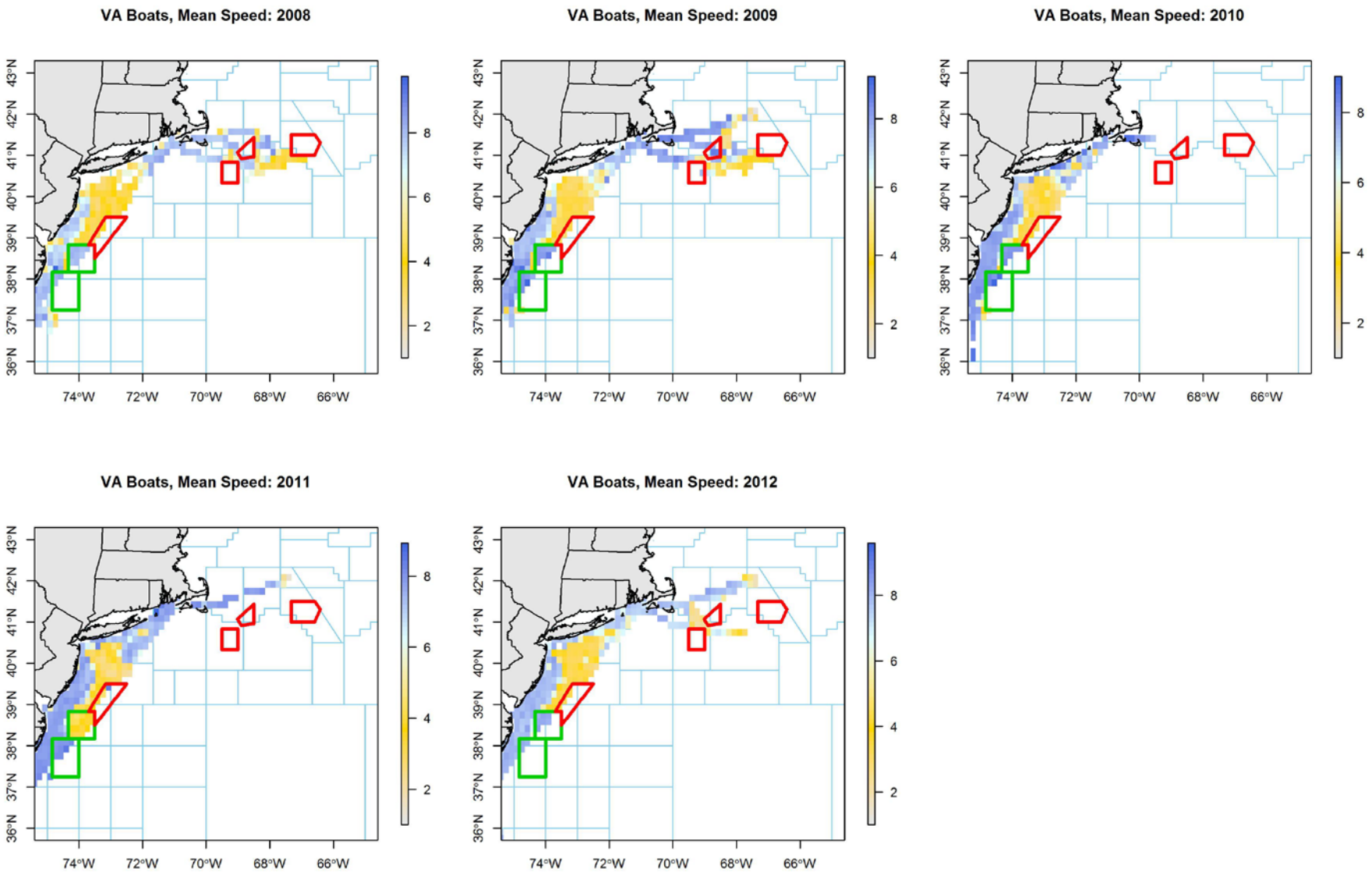
Figure 10


VA Boats, Mean Speed: 2008
VA Boats, Mean Speed: 2009
VA Boats, Mean Speed: 2010
VA Boats, Mean Speed: 2011
VA Boats, Mean Speed: 2012
43°N
42°N
41°N
40°N
39°N
38°N
37°N
36°N
74°W
72°W
70°W
68°W
66°W
8
6
4
2

The PDT estimated the distance from open area hotspots and primary port areas. This still needs more development.

<u>For the Corridor Alternative</u> – Could calculate distances to corridor and then various homeports

<u>For DOF Alternative</u> – Using *GIS routing* the PDT plans to calculate distance from open area hot spots to closest point to VMS demarcation line (D1). Then calculate distance from demarc to homeports (D2). Time will be based on average steaming time (T). To calculate "DAS saved" = T*(D2-D1) from hot spot to homeport/demark. PDT still needs to discuss what range of scenarios should be. For example, three trips per year, four trips per year, 1/3 trips to farther open areas, or 2/3 trips, or even 3/3 trips to provide worst case scenario.

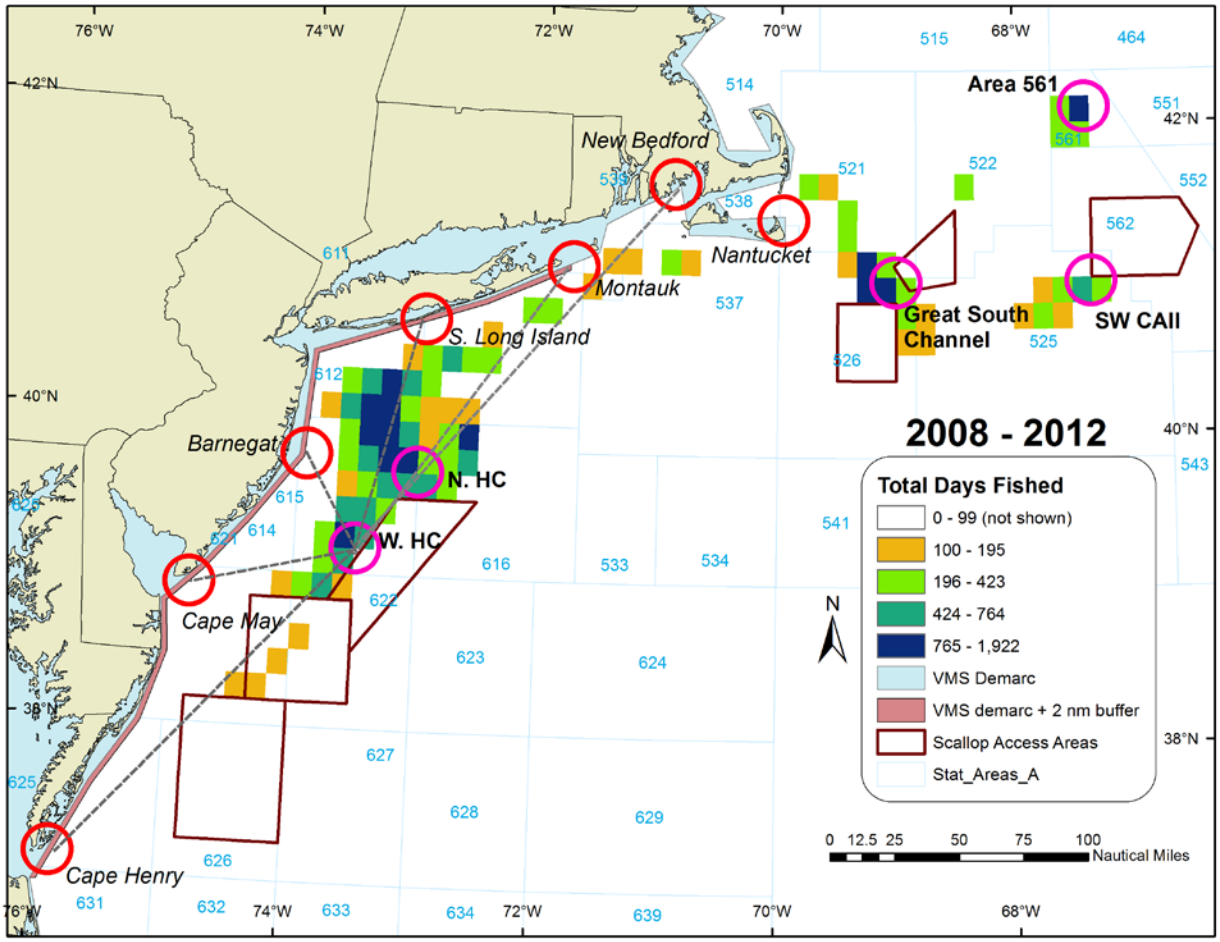


Figure 11. Primary fishing location hotspots , 2008-2012 (pink circles), and primary destinations (red circles). Lines indicate an example of measurements made. Hotspot names were chosen arbitrarily.

Table 1. Distances from fishing hotspots to primary destinations

	Nantucket	Montauk	S. Long Island	Barnegat	Cape May	Cape Henry	New Bedford
Area 561	120	206	NA	329	382	486	NA
SW CAII	119	201	NA	312	368	459	NA
GSC	51	125	NA	239	297	395	93
NHC	NA	98	58	44	91	204	147
WHC	NA	131	93	42	67	163	183

New data on LA scallop landings and DAS by port group

Table 2 – Scallop landings by state landed (lb., LA vessels only, excludes IFQ trips, VTR Data)

Fishyear	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
2009	1,953,786	28,796,734	369,278	11,371,913	9,600,458	52,092,169
2010	1,652,946	29,469,836	147,626	12,947,331	8,909,369	53,127,108
2011	1,923,422	31,685,039	105,328	12,476,754	7,629,893	53,820,436
2012	2,027,784	35,425,035	31,603	9,305,681	5,784,012	52,574,115
2013	2,262,338	27,244,473	27,199	4,328,526	2,780,591	36,643,127
*2014	1,035,096	15,108,798	62,002	10,022,051	1,723,337	27,951,284

*Preliminary numbers from Mar. to Sept.

Table 3 – Scallop landings by state landed (% of total, LA vessels only, excludes IFQ trips, VTR Data)

Fishyear	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
2009	3.8%	55.3%	0.7%	21.8%	18.4%	100.0%
2010	3.1%	55.5%	0.3%	24.4%	16.8%	100.0%
2011	3.6%	58.9%	0.2%	23.2%	14.2%	100.0%
2012	3.9%	67.4%	0.1%	17.7%	11.0%	100.0%
2013	6.2%	74.4%	0.1%	11.8%	7.6%	100.0%
*2014	3.7%	54.1%	0.2%	35.9%	6.2%	100.0%

*Preliminary numbers from Mar. to Sept.

Table 4 – Total DAS by state landed (Date landed- date sailed, LA vessels only, excludes IFQ trips, VTR)

Fishyear	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
2009	1,531	20,618	292	8,419	9,670	40,530
2010	1,304	19,367	153	10,119	10,023	40,966
2011	1,301	15,986	103	7,118	6,806	31,313
2012	1,410	18,265	56	5,810	5,156	30,697
2013	1,647	15,542	74	3,526	3,358	24,147
*2014	860	9,471	55	3,653	1,562	15,600

*Preliminary numbers from Mar. to Sept.

Table 5 – DAS by state landed (% of total, LA vessels only, excludes IFQ trips, VTR data)

Fishyear	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
2009	3.8%	50.9%	0.7%	20.8%	23.9%	100.0%
2010	3.2%	47.3%	0.4%	24.7%	24.5%	100.0%
2011	4.2%	51.1%	0.3%	22.7%	21.7%	100.0%
2012	4.6%	59.5%	0.2%	18.9%	16.8%	100.0%
2013	6.8%	64.4%	0.3%	14.6%	13.9%	100.0%
*2014	5.5%	60.7%	0.4%	23.4%	10.0%	100.0%

*Preliminary numbers from Mar. to Sept.

Table 6 –Scallop landings by home state and state landed (Sum total for 2009-2013 fishyears, LA vessels only, excludes IFQ trips, VTR data)

Home State	State landed					
	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
CT+RI	71%	24%	0%	4%	0%	100%
MA+ME	0%	98%	0%	2%	0%	100%
NC	2%	30%	3%	24%	41%	100%
NJ+NY+PA	4%	27%	0%	64%	5%	100%
VA	0%	25%	0%	8%	67%	100%

Table 7 –Scallop landings by home state and state landed (Sum total for 2009 fishyear, LA vessels only, excludes IFQ trips, VTR data)

Home State	State landed					
	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
CT+RI	80%	11%	0%	9%	0%	100%
MA+ME	0%	96%	0%	3%	0%	100%
NC	0%	13%	7%	22%	58%	100%
NJ+NY+PA	2%	20%	0%	72%	6%	100%
VA	0%	15%	0%	3%	83%	100%

Table 8 –Scallop landings by home state and state landed (Sum total for 2010 fishyear, LA vessels only, excludes IFQ trips, VTR data)

Home State	State landed					
	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
CT+RI	79%	16%	0%	5%	0%	100%
MA+ME	0%	98%	0%	2%	0%	100%
NC	0%	15%	3%	28%	53%	100%
NJ+NY+PA	0%	20%	0%	74%	5%	100%
VA	0%	12%	0%	10%	78%	100%

Table 9 –Scallop landings by home state and state landed (Sum total for 2011 fishyear, LA vessels only, excludes IFQ trips, VTR data)

Home State	State landed					
	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
CT+RI	76%	19%	0%	5%	0%	100%
MA+ME	0%	98%	0%	2%	0%	100%
NC	1%	25%	2%	27%	46%	100%
NJ+NY+PA	2%	24%	0%	70%	4%	100%
VA	0%	19%	0%	15%	65%	100%

Table 10 –Scallop landings by home state and state landed (Sum total for 2012 fishyear, LA vessels only, excludes IFQ trips, VTR data)

Home State	State landed					
	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
CT+RI	64%	35%	0%	1%	0%	100%
MA+ME	0%	99%	0%	1%	0%	100%
NC	2%	44%	1%	27%	27%	100%
NJ+NY+PA	4%	35%	0%	58%	4%	100%
VA	1%	36%	0%	7%	57%	100%

Table 11 –Scallop landings by home state and state landed (Sum total for 2013 fishyear, LA vessels only, excludes IFQ trips, VTR and permit data)

Home State	State landed					
	CT+RI	MA+NE+NH	NC	NJ+NY+MD+DE	VA	Grand Total
CT+RI	51%	48%	0%	1%	0%	100%
MA+ME	0%	100%	0%	0%	0%	100%
NC	8%	67%	1%	15%	10%	100%
NJ+NY+PA	14%	43%	0%	40%	3%	100%
VA	1%	52%	0%	2%	45%	100%

Table 12 –Number of LA vessels by state landed (Sum total for 2013 fishyear (VTR data)

Fishyear	CT+RI	MA+ ME+NH	NC	NJ+NY+MD+DE	VA	Grand Total
2009	26	226	13	184	98	547
2010	15	236	15	218	93	577
2011	27	277	11	201	93	609
2012	34	294	8	171	82	589
2013	42	287	10	132	61	532
*2014	23	238	8	127	59	455

*Preliminary data from Mar. to Sept. Note that the number of vessels is not unique since the same vessel could have landed at different ports for different trips.

Table 13 –Number of LA vessels by state landed (Sum total for 2013 fishyear (Dealer and permit data, includes only those vessels that had landings according to the dealer data)

Fishyear	CT+RI	NC+FL	NJ+NY+PA	VA	MA+ME	Grand Total
2009	13	45	97	44	150	349
2010	13	42	99	45	150	349
2011	12	43	96	43	153	347
2012	12	44	95	45	152	348
2013	11	42	97	44	152	346
*2014	10	39	87	42	148	326

*Preliminary data

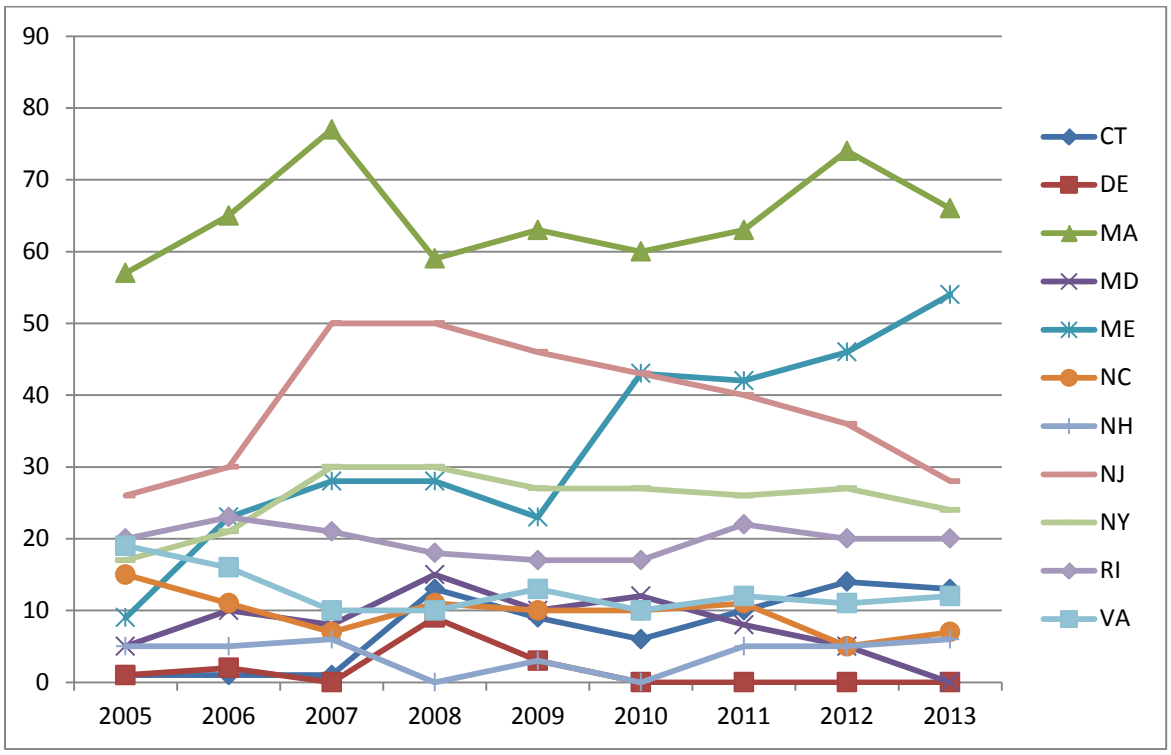
Number of Dealers by State - scallops

Source: ACCSP

Year	CT	DE	MA	MD	ME	NC	NH	NJ	NY	RI	VA	Grand Total
2005	1	1	57	5	9	15	5	26	17	20	19	175
2006	1	2	65	10	23	11	5	30	21	23	16	207
2007	1	0	77	8	28	7	6	50	30	21	10	238
2008	13	9	59	15	28	11	0	50	30	18	10	243
2009	9	3	63	10	23	10	3	46	27	17	13	224
2010	6	0	60	12	43	10	0	43	27	17	10	228
2011	10	0	63	8	42	11	5	40	26	22	12	239
2012	14	0	74	5	46	5	5	36	27	20	11	243
2013	13	0	66	0	54	7	6	28	24	20	12	230

Number of Distinct Dealers - scallops

Source: ACCSP



Previous Background Information

The Scallop PDT generally describes changes in the scallop fishery at the community level based on both port of landing, and home port state. A port of landing is the actual port where fish and shellfish have been landed, where a home port is the port identified by a vessel owner on a vessel permit application and is where supplies are purchased and crew is hired. Statistics based on port of landing begin to describe the benefits that other fishing related businesses (such as dealers and processors) derive from the landings made in their port. Alternatively, statistics based on homeport give an indication of the benefits received by vessel owners and crew from that port.

The largest numbers of permitted limited access scallop vessels have home ports of New Bedford, MA and Cape May, NJ, which represent 39% and 21% of all limited access vessels, respectively (**Table 8**). The number of vessels homeported in some ports on the periphery of scallop fishing grounds has declined over time. Many ports have remained relatively stable in terms of LA vessels, but in ports like Newport News, VA and Norfolk, VA the number of LA vessels homeported in those areas has decreased between 2001 and 2011. On the other hand, some southern ports like New Bern, NC, Beaufort, NC and Seaford, VA have seen increases in the number of LA vessels homeported in those areas. Several southern ports have remained constant such as Wanchese, NC, Lowland NC, and Hampton, VA. Highlighting the difference between port of landing and home port however, are ports like New Bern, NC and Wanchese, NC, both of which are the home ports of a number of vessels with scallop landings but where no (or very little) landings were made.

Table 14. Number of permitted limited access scallop vessels. By homeport, 2001-2011.

State	Homeport	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
MA	NEW BEDFORD	90	97	102	111	125	131	133	132	134	133	137
NJ	CAPE MAY	36	42	50	54	68	71	73	68	67	67	73
VA	NEWPORT NEWS	21	21	21	22	23	19	19	18	17	18	16
VA	SEAFORD	2	3	4	4	5	5	5	5	6	7	12
NC	NEW BERN	8	8	8	8	13	12	14	11	12	11	11
NJ	BARNEGAT LIGHT	9	8	8	10	11	10	10	10	10	10	10
NC	WANCHESE	8	7	7	6	6	8	8	8	8	8	8
NC	LOWLAND	7	7	8	9	8	8	8	7	7	7	7
NJ	POINT PLEASANT	3	3	3	4	3	3	3	6	7	9	6
VA	HAMPTON	6	6	6	7	4	8	6	6	6	5	6
CT	NEW LONDON	1	1	1	1	3	5	5	5	5	5	5
MA	BOSTON	12	11	10	7	7	7	7	6	5	6	5
MA	FAIRHAVEN	10	8	8	7	8	7	5	4	4	4	5
NC	BEAUFORT							1	2	5	4	5
VA	NORFOLK	27	27	27	22	13	11	11	11	11	12	5
CT	STONINGTON	4	6	7	7	4	4	5	4	4	4	4
PA	PHILADELPHIA	5	5	6	6	5	5	5	5	5	4	3
RI	POINT JUDITH	1	1	2	1	2	3	3	3	3	2	3

Row Labels	Sum of 2011
CT	9
MA	147
NC	31
NJ	89
PA	3
RI	3
VA	39
Grand Total	**321**

In terms homeport state, the vessels from MA landed over 45% of scallops in 2010 and 2011 fishing years, followed by NJ with about 24.5% of all scallops landed by vessels homeported in this state (**Table 9**, **Table 10**). Scallops also comprise a significant proportion of revenue (and landings) from all species with over 90% of total revenue in VA, over 75% of total revenue in NC, over 60% of total revenue in MA and over 68% of total revenue in NJ (**Table 11** and **Table 12**).

Table 15. Scallop landings by Home State identified in the permit database

	Fishing year				
Homeport state	**2007**	**2008**	**2009**	**2010**	**2011**
CT	546542	1623322	1734044	1602132	1720437
DE	15655	7186	7356	10498	15421
FL	659766	625141	650270	530135	673092
GA	89319	49266	38840	8149	
MA	26373451	22873829	25504891	26110751	26656287
MD	304774	328721	297816	65942	54067
ME	700496	677582	555687	479074	498636
NC	5671348	4791439	5581722	4723899	5538809
NH	56746	53910	33944	12990	10960
NJ	15001631	13159595	13668183	13984139	14327469
NY	712069	574030	864323	509770	553278
PA	767243	607475	735669	639482	435027
RI	350252	126350	196098	354239	419636
VA	7818445	6200381	6766780	6770529	6865074
Unidentified	1905041	859195	1424587	1189143	672646
All Scallop landings	60972778	52557422	58060210	56990872	58440839

Table 16. Scallop landings as a proportion of total scallop landings by Home State identified in the permit database

	Fishing Year				
Homeport State	**2007**	**2008**	**2009**	**2010**	**2011**
CT	0.90%	3.09%	2.99%	2.81%	2.94%
DE	0.03%	0.01%	0.01%	0.02%	0.03%
FL	1.08%	1.19%	1.12%	0.93%	1.15%
MA	43.25%	43.52%	43.93%	45.82%	45.61%
MD	0.50%	0.63%	0.51%	0.12%	0.09%
ME	1.15%	1.29%	0.96%	0.84%	0.85%
NC	9.30%	9.12%	9.61%	8.29%	9.48%
NH	0.09%	0.10%	0.06%	0.02%	0.02%
NJ	24.60%	25.04%	23.54%	24.54%	24.52%
NY	1.17%	1.09%	1.49%	0.89%	0.95%
PA	1.26%	1.16%	1.27%	1.12%	0.74%
RI	0.57%	0.24%	0.34%	0.62%	0.72%
VA	12.82%	11.80%	11.65%	11.88%	11.75%
Unidentified	3.12%	1.63%	2.45%	2.09%	1.15%
All Scallop landings	100.00%	100.00%	100.00%	100.00%	100.00%

Table 17. Scallop landings as a proportion of landings of all species by the Home State identified in the permit database

	Fishing Year				
Homeport State	**2007**	**2008**	**2009**	**2010**	**2011**
CT	23.83%	37.06%	34.45%	26.91%	29.89%
DE	0.38%	0.28%	0.42%	0.44%	0.77%
FL	98.55%	99.55%	99.57%	99.34%	99.12%
MA	10.28%	9.03%	10.34%	13.12%	11.47%
MD	7.59%	8.53%	7.56%	0.62%	2.04%
ME	0.80%	0.60%	0.47%	0.43%	0.36%
NC	31.48%	30.73%	31.64%	25.92%	26.43%
NH	0.25%	0.22%	0.12%	0.09%	0.04%
NJ	11.30%	8.97%	10.10%	10.10%	9.42%
NY	3.09%	2.14%	2.99%	1.68%	1.67%
PA	5.04%	4.87%	7.70%	6.52%	6.29%
RI	0.59%	0.21%	0.33%	0.65%	0.63%
VA	54.22%	56.67%	60.03%	58.08%	54.73%
Unidentified	0.26%	0.14%	0.46%	0.88%	0.09%
Scallop % of all landings	4.47%	4.01%	5.94%	7.65%	4.14%

Table 18. Scallop revenue as a proportion of revenue from all species by the Home State identified in the permit database

	Fishing year				
Homeport State	**2007**	**2008**	**2009**	**2010**	**2011**
CT	66.14%	78.32%	78.67%	76.04%	79.03%
DE	2.77%	2.01%	3.04%	4.01%	7.85%
FL	99.56%	99.89%	99.90%	99.77%	99.74%
MA	55.35%	53.49%	56.28%	60.50%	61.96%
MD	35.60%	41.73%	36.16%	16.94%	17.09%
ME	6.44%	4.17%	2.78%	2.14%	2.45%
NC	69.31%	81.06%	76.88%	80.76%	75.92%
NH	1.98%	1.71%	1.19%	0.57%	0.51%
NJ	62.07%	60.36%	61.33%	64.83%	68.33%
NY	15.88%	13.65%	17.23%	12.09%	13.06%
PA	39.28%	39.98%	48.68%	50.51%	54.50%
RI	4.68%	1.76%	2.84%	5.57%	7.18%
VA	89.61%	91.26%	91.44%	92.53%	93.51%
Unidentified	1.98%	1.11%	2.14%	3.17%	1.28%
Scallop % of all revenue	28.16%	27.26%	30.04%	36.42%	34.70%

ACCSP tracks scallop catch by dealer in each state. All scallop catch from both state and federal vessels has been summarized by calendar year and state (Table 13 and Figure 12). The state of Massachusetts has had over 50% of total scallop landings since 2005, and that has increased over 60% in 2012 and over 70% in 2013. At the same time landings in both NJ and VA were about 20% each of total landings, and NJ has fallen to about 15% of total catch in 2013, and VA is below 10%. Many of the other states are more stable; with the exception of Rhode Island which has seen an increase in total percent of landings and revenues in recent years (was less than 1% of total catch in 2008 and is about 4% of total catch in 2013) (Table 14 and Figure 13). In addition, the state of Maine has also seen an increase in total percentage of landings and revenue, less than one percent of both for all years, and over 1% in 2013. This increased catch and revenue from Maine is mostly from increased catches in state waters.

Note about data from ACCSP:

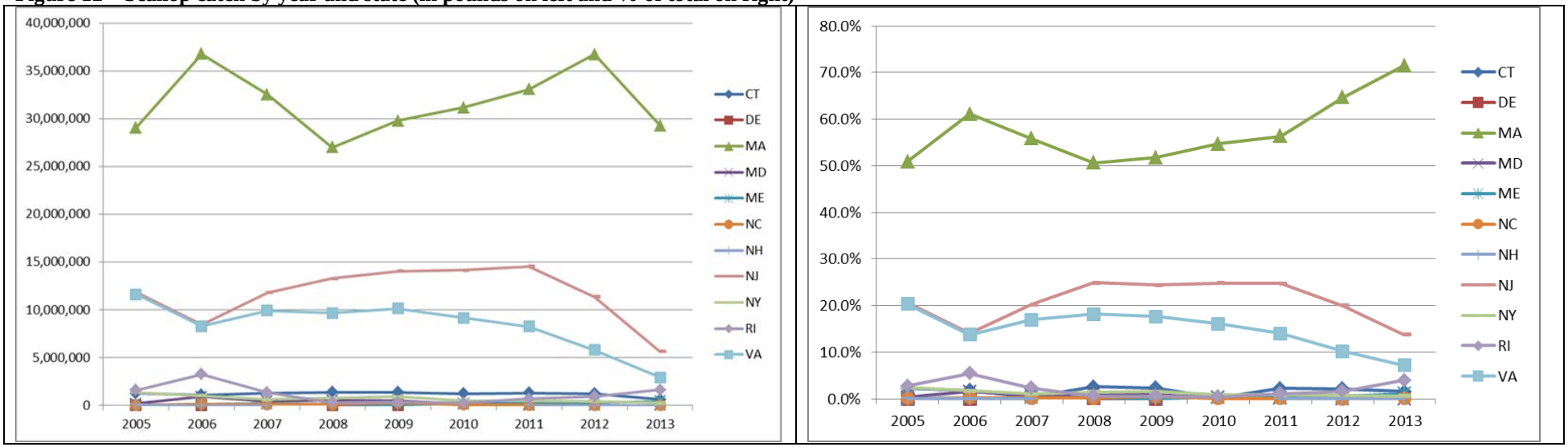
These data are non-confidential and may not reflect true totals as confidential data has been removed.
Please see ACCSP documentation for definitions of confidential data.
Non-Confidential Commercial Landings from Dealer Reports, aggregated by Year, State, and Species.
Page Total is the total of all currently displayed Year value, as indicated by the Year Page Item.
Grand Total is the total across all Years selected, as indicated in the heading.

- **Scallop Landings – By all dealers per state (in pounds and percent of total)**

Table 19 – Scallop catch by state (ACCSP dealer data)

	2005	2006	2007	2008	2009	2010	2011	2012	2013
CT	1,272,129	1,103,649	1,312,897	1,385,402	1,373,807	1,259,808	1,317,861	1,231,244	639,702
DE	12,569	15,717		37,612	20,859				
MA	29,081,254	36,787,335	32,538,199	27,011,286	29,781,715	31,155,911	33,091,860	36,725,263	29,277,441
MD	209,825	931,296	449,770	568,321	516,480	149,481	53,105	11,498	
ME	18,001	153,992	176,718	136,338	79,170	200,606	182,234	294,957	447,568
NC	41,314	143,908	131,305	108,043	298,257	79,676	53,866	6,637	23,346
NH	72,052	19,430	2,021		550		890	6,343	22,959
NJ	11,833,245	8,457,473	11,807,580	13,281,508	14,044,545	14,170,590	14,544,802	11,378,797	5,651,654
NY	1,400,276	1,040,441	619,411	782,133	909,242	507,509	522,346	429,877	255,539
RI	1,591,182	3,282,626	1,356,814	309,921	354,820	267,240	690,412	944,263	1,647,589
VA	11,634,508	8,302,261	9,915,741	9,684,732	10,136,881	9,167,498	8,260,487	5,798,490	2,958,489

Figure 12 – Scallop catch by year and state (in pounds on left and % of total on right)

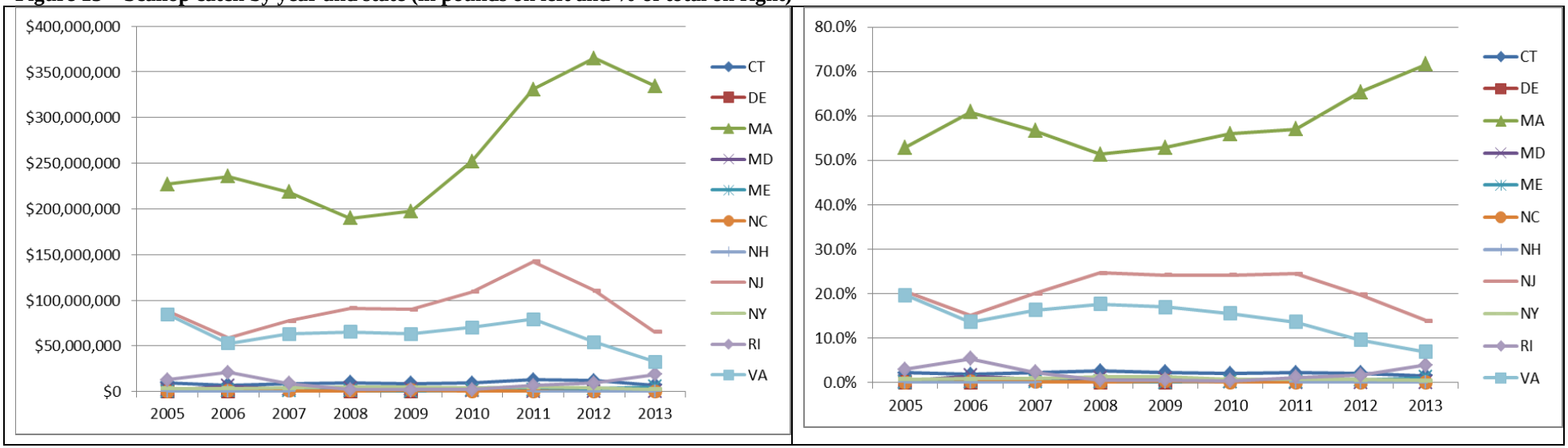


- **Revenue – By all dealers per state (in pounds and percent of total)**

Table 20 – Scallop revenue by state (ACCSP dealer data)

	2005	2006	2007	2008	2009	2010	2011	2012	2013
CT	$9,760,606	$7,229,310	$8,605,213	$9,861,382	$8,866,068	$9,458,061	$13,003,692	$12,005,054	$7,219,183
DE	$101,524	$98,511		$256,261	$142,328				
MA	$227,117,156	$235,565,032	$218,280,795	$189,891,360	$197,280,476	$252,253,339	$330,943,512	$364,863,779	$334,552,061
MD	$1,608,916	$6,201,042	$2,808,970	$3,753,439	$3,127,965	$1,162,504	$503,534	$120,691	
ME	$154,139	$1,246,918	$1,406,084	$1,012,640	$588,746	$1,618,862	$1,820,409	$3,285,557	$5,505,984
NC	$281,761	$974,257	$831,161	$675,369	$1,777,610	$566,496	$522,501	$63,914	$257,974
NH	$487,407	$112,046	$16,411		$3,978		$8,701	$79,730	$263,457
NJ	$88,482,451	$58,537,919	$77,359,202	$91,317,139	$90,150,183	$109,117,836	$142,505,107	$110,559,547	$65,330,585
NY	$3,617,174	$3,519,392	$3,871,617	$5,050,356	$4,957,971	$3,778,153	$4,960,137	$4,082,955	$2,601,565
RI	$13,146,785	$20,821,954	$8,962,748	$2,168,955	$2,334,258	$2,156,250	$6,833,783	$9,190,809	$18,657,781
VA	$84,595,114	$52,764,318	$63,012,907	$65,534,006	$63,312,434	$70,204,042	$79,427,167	$54,076,122	$32,610,231

Figure 13 – Scallop catch by year and state (in pounds on left and % of total on right)



Examining vessel logbooks to find which seafood dealers are accepting scallop landings gives some indication of a particular state's involvement in the scallop fishery beyond the actual harvest of the resource. Dealer data through 2011 shows that the actual landings of scallops are highly concentrated in the states of Massachusetts (58%), New Jersey (24%) and Virginia (13%), but that dealers from all over New England and the Mid Atlantic are buying these scallops. Table 53 shows that Massachusetts is still the state with the most dealers purchasing scallops at 48, but states like New York, New Jersey and Maine also have large numbers of dealers and seafood processors buying scallops. In recent years the total number of dealers purchasing scallops has declined, from a high of 303 dealers in 2005, to 161 dealers in 2011. Without more information about these seafood related businesses it is difficult to draw any conclusions about the recent decline in the number of dealers, but it is interesting to note that the largest declines in dealers accepting scallops has been in Massachusetts, which had 107 dealers in 2005, but had only 48 in 2011. The state of Virginia has also declined from 22 in 2004 to 10 in 2011. The number of dealers in Maine and Rhode Island have declined as well, but the remaining states have been relatively consistent in terms of the number of dealers accepting scallop landings.

Table 21. Number of seafood dealers accepting/purchasing scallops by year and state

State	2004	2005	2006	2007	2008	2009	2010	2011
ME	29	37	26	29	21	9	14	17
NH	4	4	6	4	3	4	3	4
MA	93	107	91	75	70	58	49	48
RI	21	23	22	19	16	15	12	12
CT	7	5	6	5	5	7	7	4
NY	31	39	33	36	37	31	26	29
NJ	27	34	43	37	35	38	37	24
DE	2	4	3	1	1	2	2	2
MD	5	7	6	5	6	8	5	0
VA	22	16	12	9	9	10	9	10
NC	15	18	11	9	13	14	12	11
Other States	4	9	6	2	4	0	2	0
Total	260	303	265	231	220	196	178	161