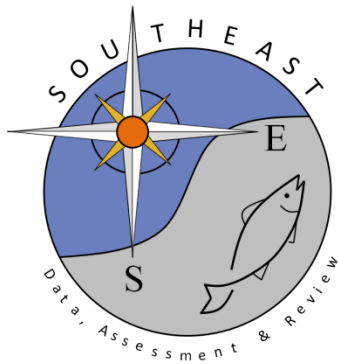


Summary of Mid-Atlantic Commercial Blueline Tilefish Data

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Summary of Mid-Atlantic Commercial Blueline Tilefish Data



Photo Credit: Duane Raver, Jr.

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Northeast Fisheries Observer Program (NEFOP) data is summarized in Section A and commercial logbook VTR (vessel trip report) data is summarized in Section B.

Section A: NEFOP Observer Data

NEFOP data on blueline tilefish is summarized in Tables 1-3 and Figures 1-7. Observer coverage rates were lower in the 1990s relative to the late 2000s (Table 1). In addition, the lack of a commercial blueline code in the 1990s may have contributed to lack of recorded blueline bycatch in the observer data. Observations of blueline tilefish in the observer data is seen mostly as bycatch in the trawl fisheries since there is minimal data on directed blueline tilefish trips in the dataset (Table 2). Confidentiality constraints will apply to information on directed blueline trips. On a seasonal basis there were less blueline tilefish observed from May to August (Table 3). However this may be influenced by changes in fishing effort in the trawl fishery during the summer. The indication of a shift in the distribution north relative to the overall distributions seen in the surveys (see first map in survey working paper) could also be influenced by difference in effort in the trawl fisheries (Figure 1). There appears to be less trawling effort in blueline tilefish habitat near Cape Hatteras relative to fishing grounds further north near Hudson Canyon. Little difference was seen in the distributions when the times series was split between 1997-2007 and 2008-2015 (Figures 2-3). Total effort in the observer data was also plotted for the trawl (Figure 4-5) and longline (Figures 6-7) fisheries in an attempt to better interpret the distributions of blueline bycatch. The apparent break in the distribution near the mouth of Chesapeake Bay may also be influence by lower relative trawl effort in that specific area.

Table 1. Discard and kept pounds of blueline tilefish on NEFOP trips. The number of observed trips and hauls which caught blueline tilefish is also shown. NA indicates confidential data.

Year	Weight (lbs.)			Observed	
	Discards	Kept	Total	trips	hauls
1997		NA	NA	2	2
1999	NA		NA	1	1
2000		NA	NA	2	6
2001	NA		NA	1	1
2003	11	46	57	3	8
2004	1,310	780	2,090	12	45
2005	121	311	432	8	30
2006	NA	NA	NA	2	6
2007		100	100	4	8
2008	182	308	490	8	19
2009	287	754	1,041	18	59
2010	322	634	955	27	83
2011	869	1,070	1,939	37	99
2012	241	385	626	30	60
2013	1,295	1,960	3,255	30	78
2014	179	7,965	8,144	28	73
2015	157	1,067	1,224	36	81
2016	5	306	311	3	4
Total	4,995	15,989	20,983	252	663

Table 2. The number of total observed trips by gear type from 1997-2016 which caught blueline tilefish.

longline	trawl	gillnet	pot
6	234	10	3

Table 3. Pounds of blueline tilefish on NEFOP trips by month and year. NA indicates confidential data.

year	1	2	3	4	5	6	7	8	9	10	11	12	Total
1997								NA					NA
1999										NA			NA
2000								NA	NA				NA
2001				NA									NA
2003							16				36	5	57
2004	104						1			1,848	69	68	2,090
2005	1	183	82					1		35	130		NA
2006	NA												68
2007			15	85									100
2008		240		3					65	65		117	490
2009	1	20	9	311						181	332	188	1,041
2010		37	32	7		15		5	155	395	217	93	955
2011	11	10	26	3					158	503	943	286	1,939
2012	129	182	148	3					29	97	27	12	626
2013	13		21	4			1	1,518	858	800	34	5	3,255
2014	28	39	96	2	10	2	5	45	5,951	1,305	646	14	8,144
2015	171	11	349	53	5	4	9		223	367	32	1	1,224
2016	9	302											311
Total	467	1,024	777	471	15	21	31	1,568	7,439	5,595	2,467	789	20,663

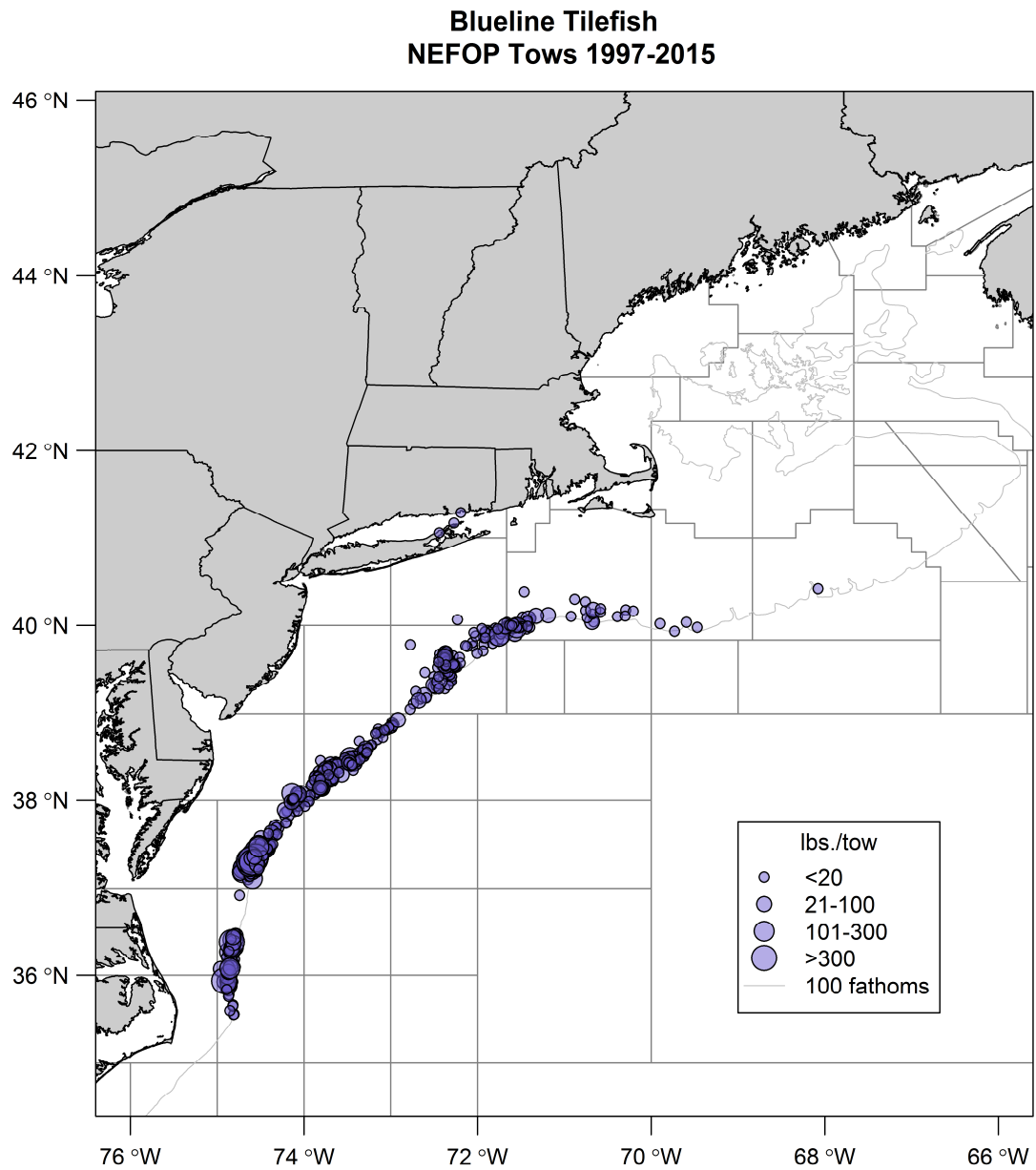


Figure 1. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 1997 to 2015.

**Blueline Tilefish
NEFOP Tows 1997-2007**

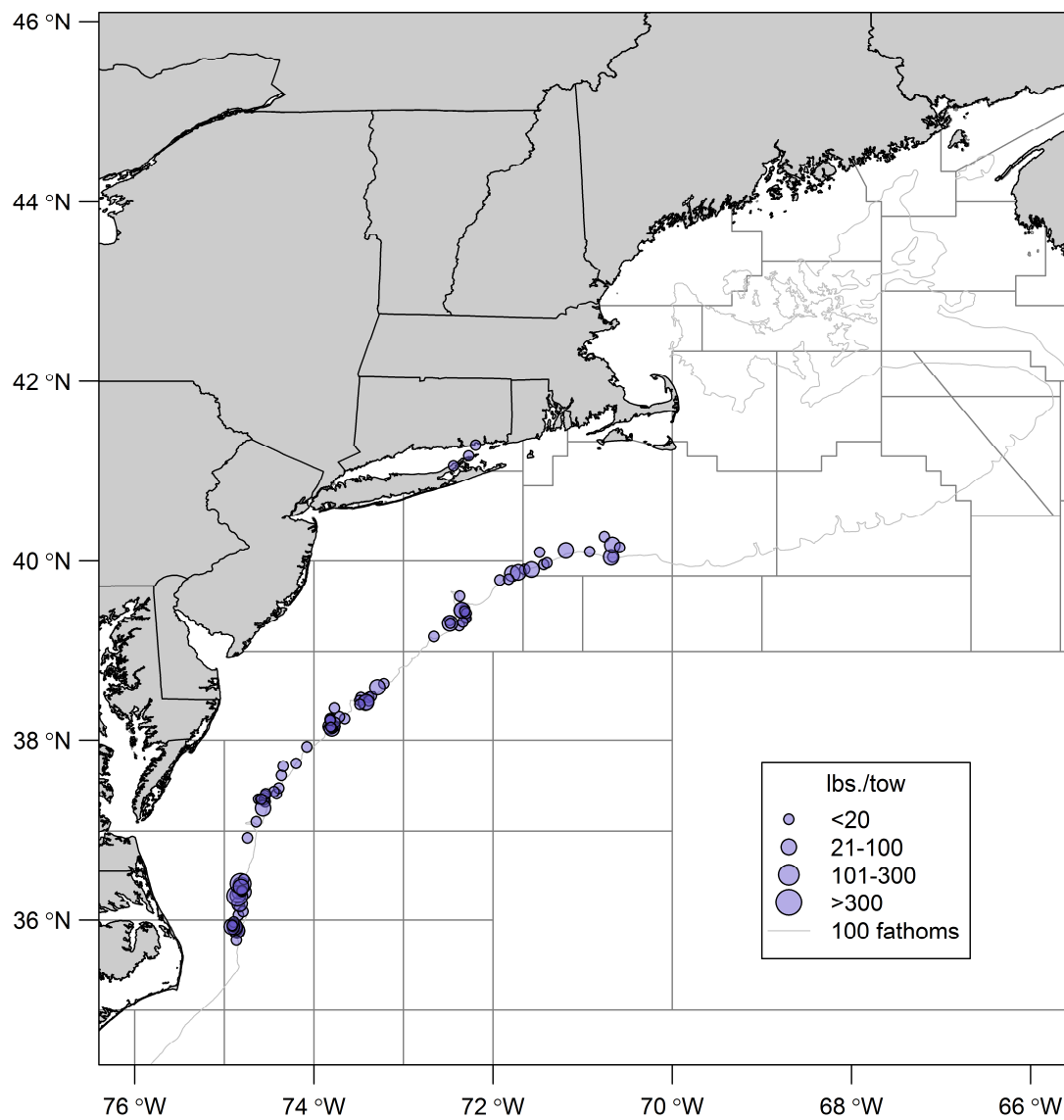


Figure 2. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 1997 to 2007.

**Blueline Tilefish
NEFOP Tows 2008-2015**

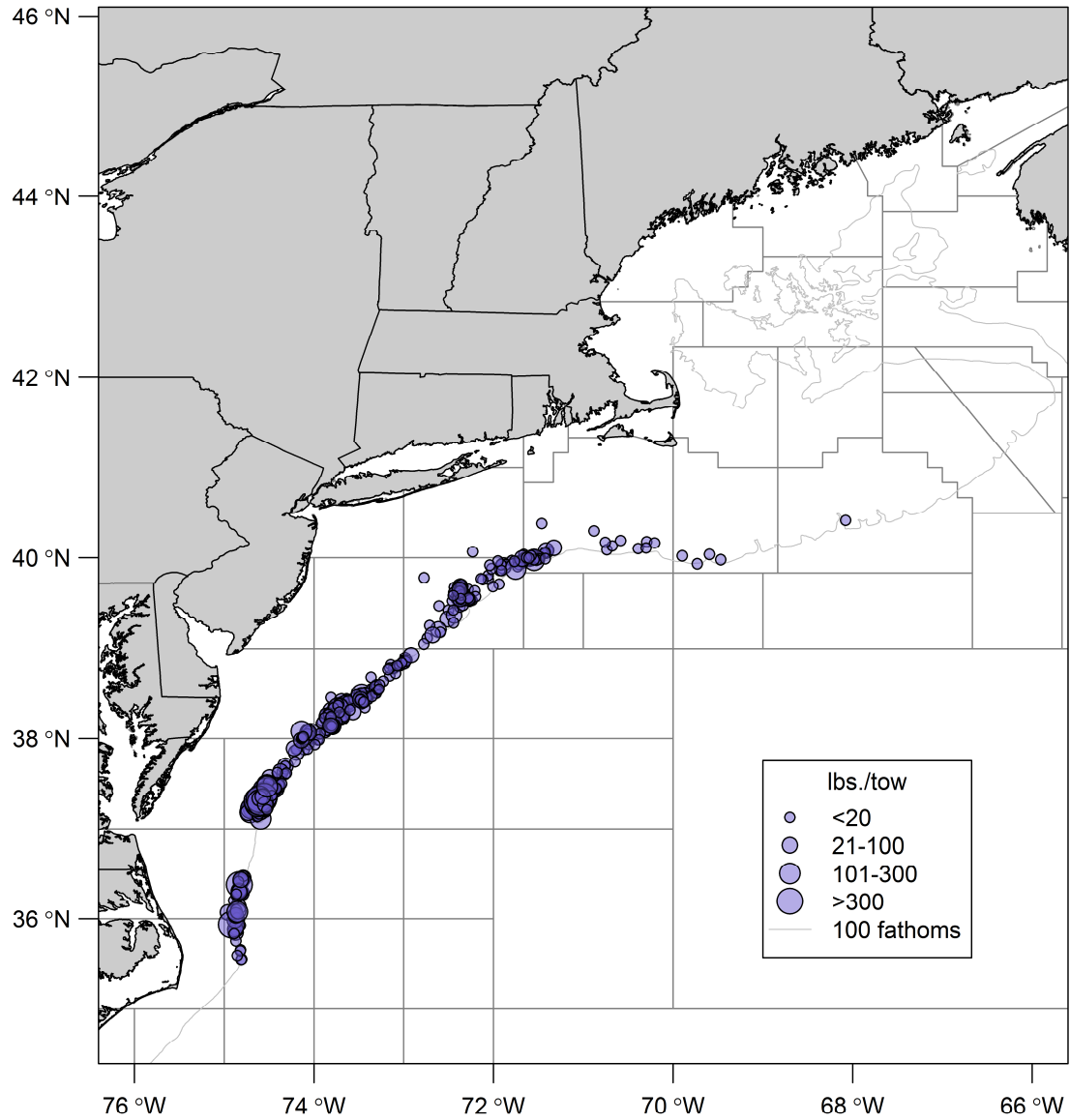


Figure 3. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 2008 to 2015.

Blueline Tilefish NEFOP Catch 1997-2007

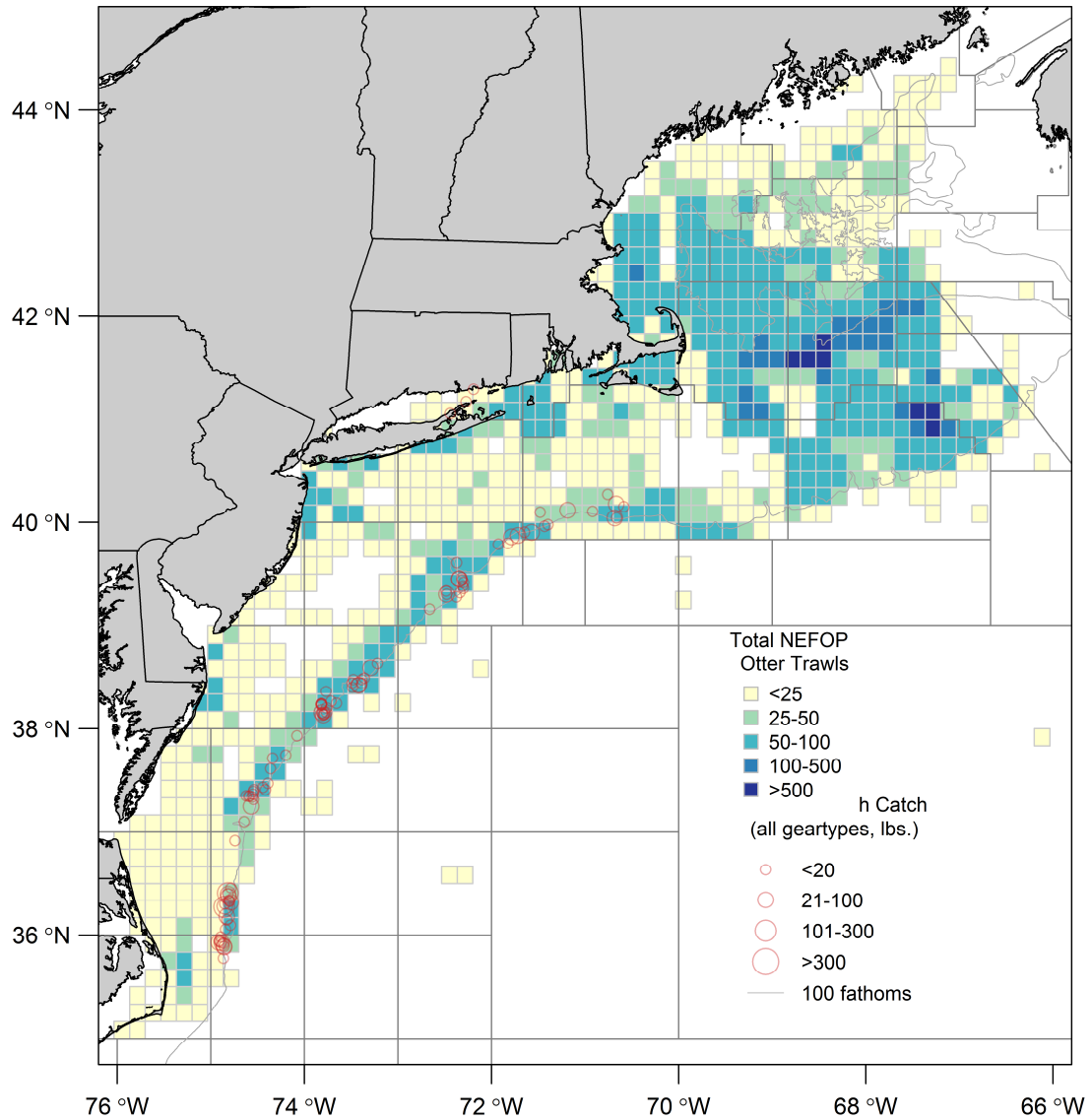


Figure 4. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 1997 to 2007. Total NEFOP trawl effort (1997-2007) in total tows is also shown by ten minute square.

Blueline Tilefish NEFOP Catch 2008-2015

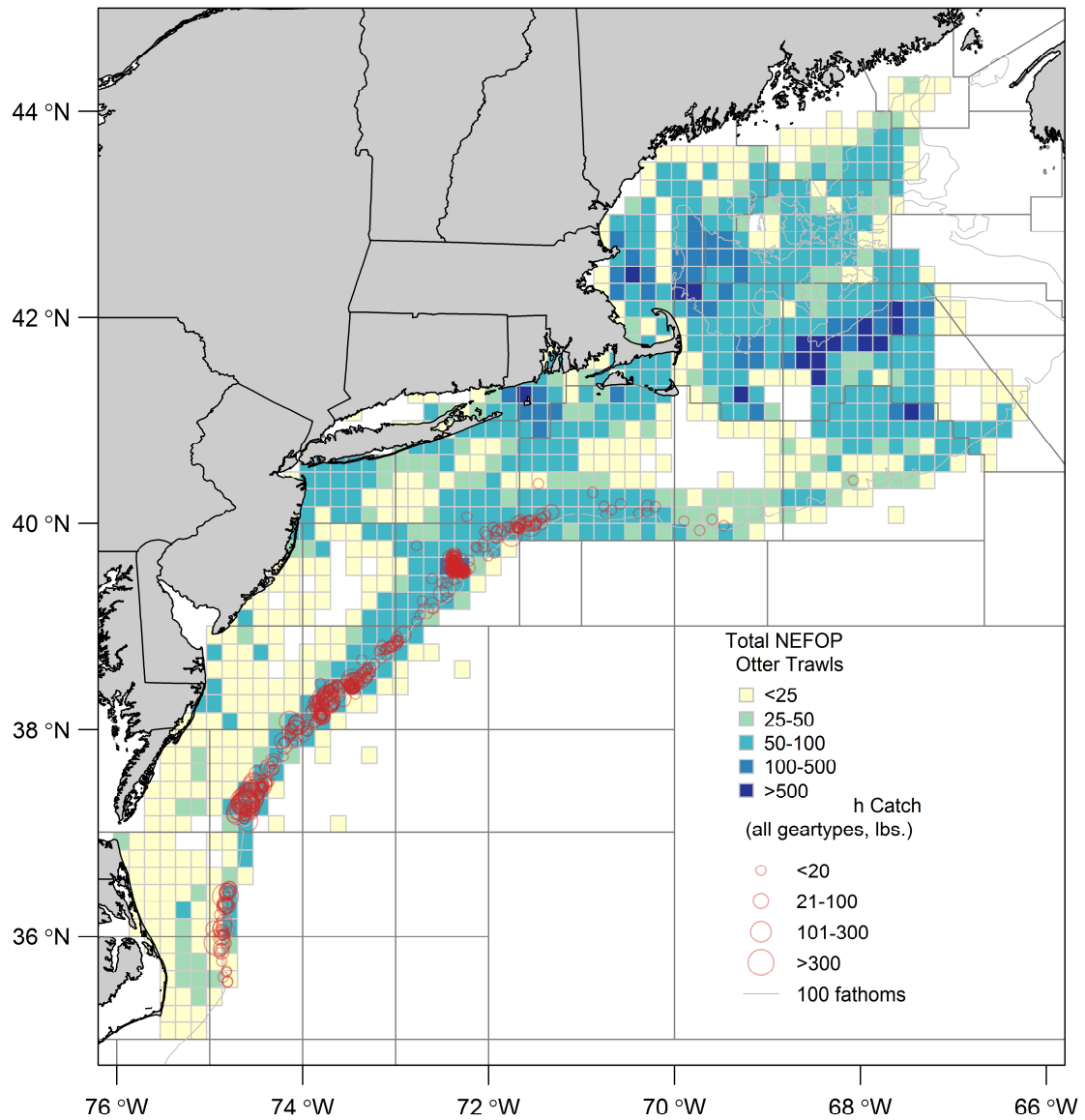


Figure 4. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 2008 to 2015. Total NEFOP trawl effort (2008-2015) in total tows is also shown by ten minute square.

Blueline Tilefish NEFOP Catch 1997-2007

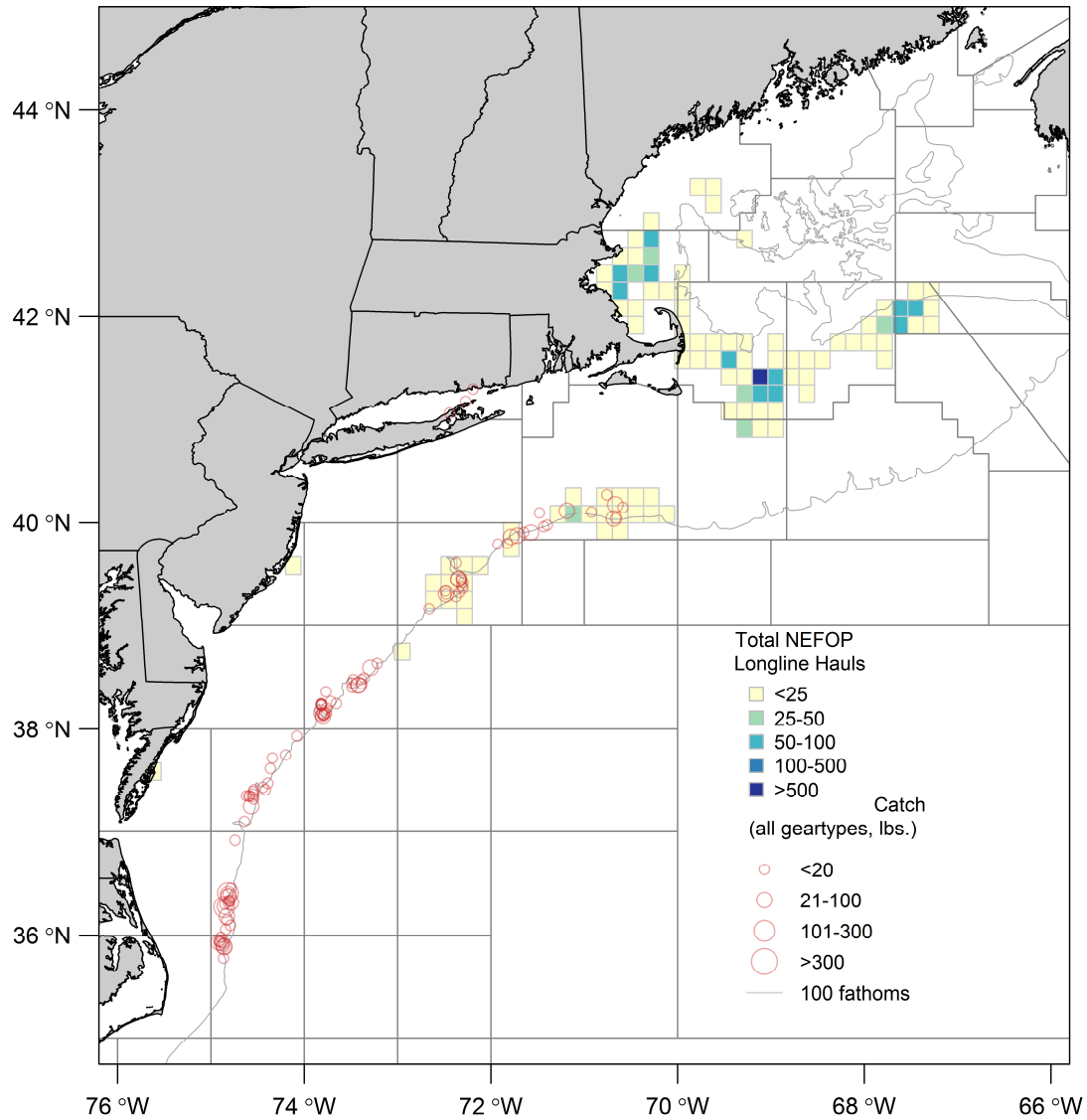


Figure 6. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 1997 to 2007. Total NEFOP longline effort (1997-2007) in total hauls is also shown by ten minute square.

Blueline Tilefish NEFOP Catch 2008-2015

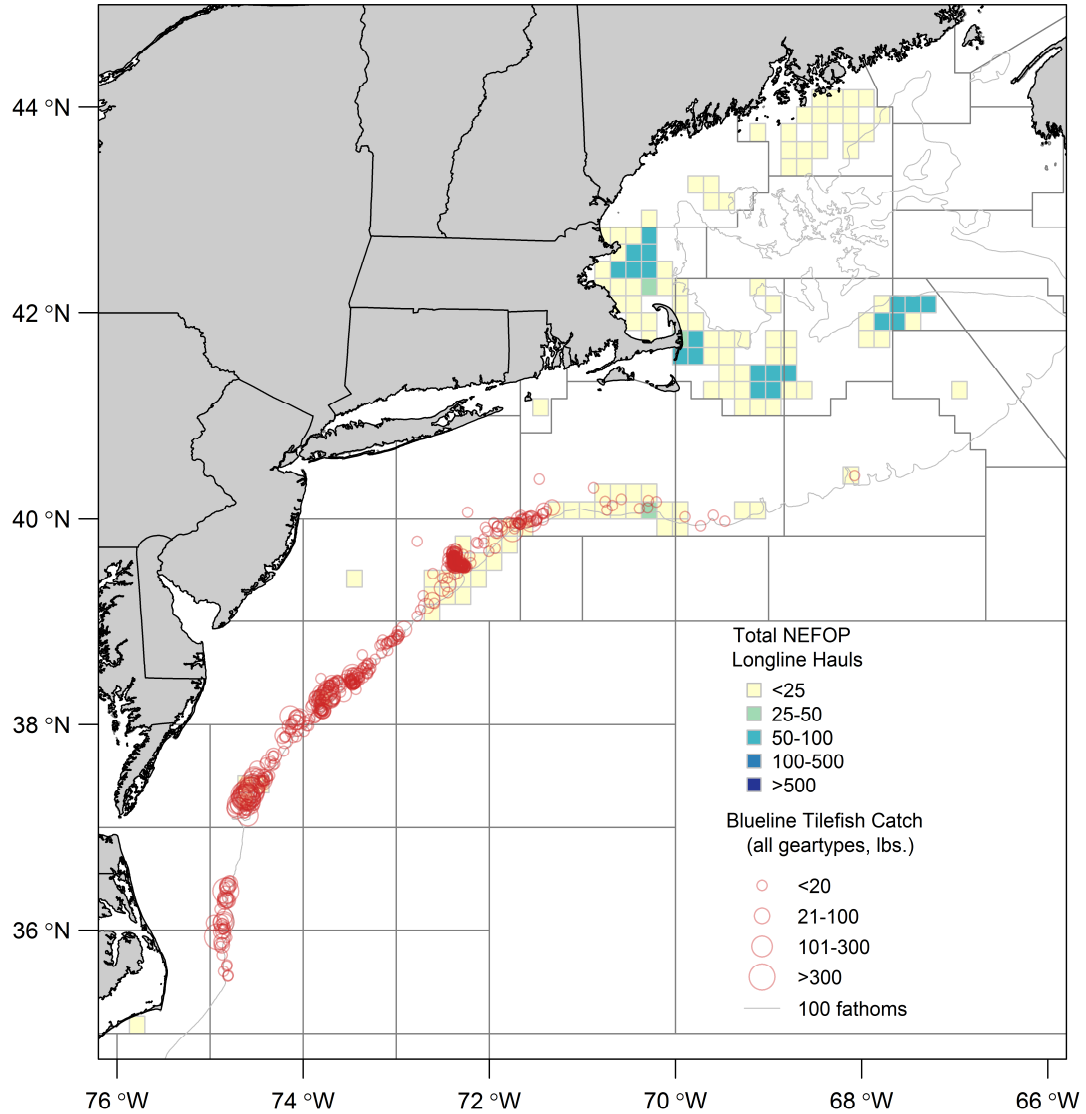


Figure 7. Blueline tilefish caught in pounds for NEFOP hauls for all gear types from 2008 to 2015. Total NEFOP longline effort (2008-2015) in total hauls is also shown by ten minute square.

Section B: Vessel Trip Report (VTR) data

A commercial species code for blueline tilefish was developed in 2001 with the implementation of the golden tilefish FMP. Before 2001 it is assumed that tilefish recorded under the tilefish “unclassified” code was comprised of most golden tilefish. Table 1 summarizes the landing reported in logbook VTR data. VTR data suggest most of the landings are being caught from statistical areas off North Carolina and from 626.

Table 1. VTR commercial blueline tilefish landing in pounds (top) and percent by statistical area (bottom) from 2002 to 2015. Highlighted cell represent the maximum within a year.

Year	626	636	635	632	621	622	616	631	625	537	other	total
2002		12,228	4,667	1,194		28		42		3	39	18,201
2003	2,307	7,786	13,051	2,989		236	5	27	31	1,950	320	28,702
2004	769	215	208	1,012		449	581		724	730	750	5,438
2005	511	2,135	20	52	18	63	210	2		135	360	3,506
2006	558	9,007	126	621		776	464	204			25	11,781
2007	12,000	1,800	243	4,469		459	424	294		129	85	19,903
2008	4,466	5,664	832	3,414	630	1,809	782			211	411	18,219
2009	2,529	11,581	111	492	13	117	1,038	318		300	480	16,979
2010	3,110	52,189	8,750	4,874	300	602	944	25	8	415	354	71,571
2011	2,690	7,311	8,050	9,737	550	1,348	1,286	2,931		31	874	34,808
2012	1,504	17,403	1,303	17,899	320	2,239	3,631	2,685		336	456	47,776
2013	7,415	362	37,072	5,252	7	9,994	1,848	308		997	1,092	64,347
2014	116,343	6,879	14,506	22,826	22,021	3,000	4,641		5,417	87	224	195,944
2015	71,354	300	1,535	1,251	220	3,906	3,305	7	184	294	371	82,727

Year	626	636	635	632	621	622	616	631	625	537	other
2002	0%	67%	26%	7%	0%	0%	0%	0%	0%	0%	0%
2003	8%	27%	45%	10%	0%	1%	0%	0%	0%	7%	1%
2004	14%	4%	4%	19%	0%	8%	11%	0%	13%	13%	14%
2005	15%	61%	1%	1%	1%	2%	6%	0%	0%	4%	10%
2006	5%	76%	1%	5%	0%	7%	4%	2%	0%	0%	0%
2007	60%	9%	1%	22%	0%	2%	2%	1%	0%	1%	0%
2008	25%	31%	5%	19%	3%	10%	4%	0%	0%	1%	2%
2009	15%	68%	1%	3%	0%	1%	6%	2%	0%	2%	3%
2010	4%	73%	12%	7%	0%	1%	1%	0%	0%	1%	0%
2011	8%	21%	23%	28%	2%	4%	4%	8%	0%	0%	3%
2012	3%	36%	3%	37%	1%	5%	8%	6%	0%	1%	1%
2013	12%	1%	58%	8%	0%	16%	3%	0%	0%	2%	2%
2014	59%	4%	7%	12%	11%	2%	2%	0%	3%	0%	0%
2015	86%	0%	2%	2%	0%	5%	4%	0%	0%	0%	0%

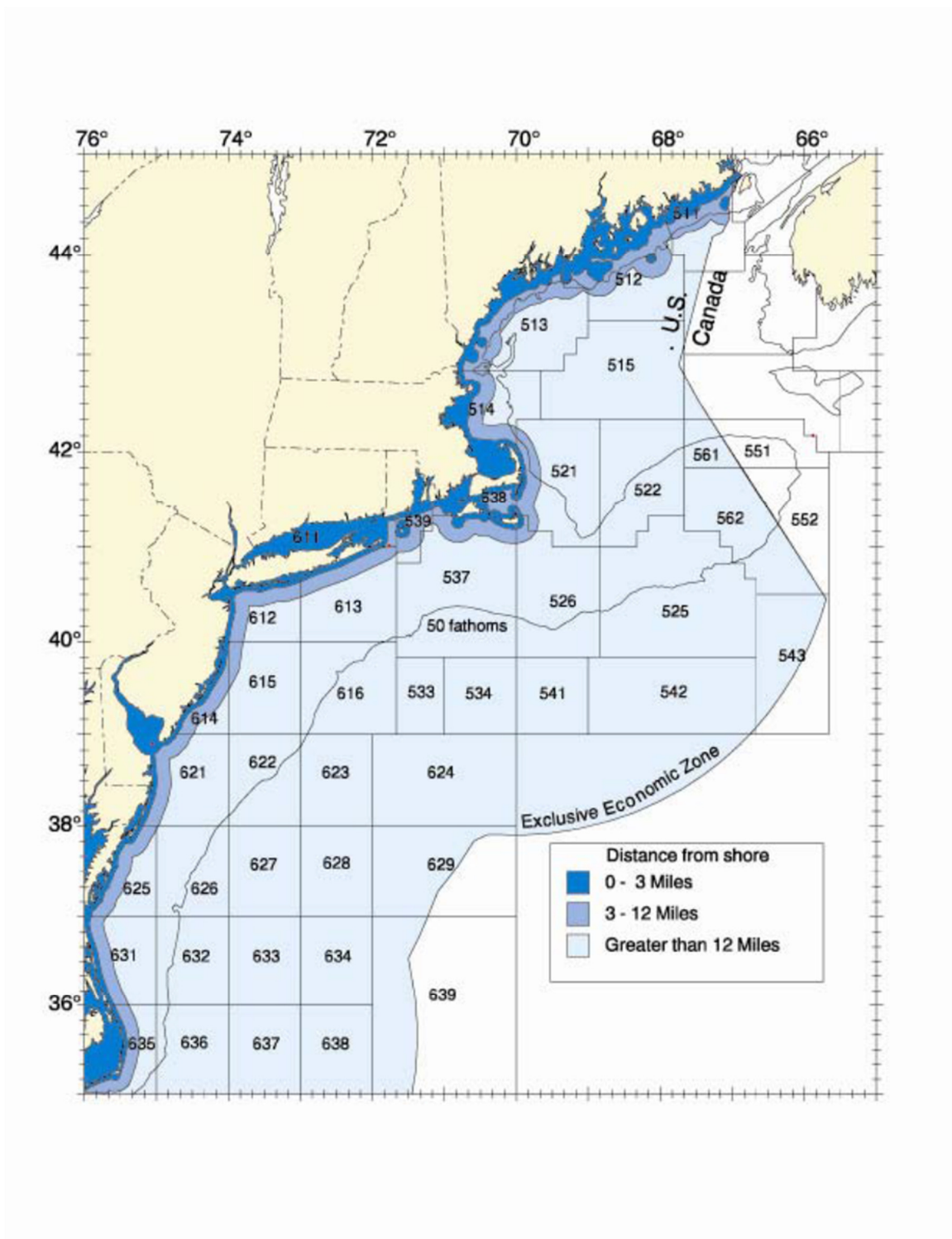


Figure 1. Statistical area used for reporting of the commercial catch.