

RESOURCE SURVEY REPORT
Catch Summary
NOAA Fisheries Service
Northeast Fisheries Science Center
Spring Bottom Trawl Survey
Cape Hatteras - Gulf of Maine
March 7 - April 28, 2007

Submitted to: NOAA, NEFSC

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Date: 2007

Resource Survey Report

Bottom Trawl Survey

Cape Hatteras – Gulf of Maine

March 7 – April 28 2007

NOAA Ship Albatross IV



NOAA Fisheries Service
Northeast Fisheries Science Center
Woods Hole, MA 02543



Scientists stand in awe of the largest number of barndoor skates (*Raja laevis*) ever caught in the forty-four year history of the survey. Caught on Southern Georges Bank, 277 individuals weighed in at 3,224 lbs.

A large catch of Atlantic cod (*Gadus morhua*), caught inshore in the Gulf of Maine, lined up and ready for sampling.



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Attached are field notes, station and catch summaries and a series of geographical plots of commercially and recreationally important species caught during the Northeast Fisheries Science Center's 2007 spring bottom trawl survey aboard the NOAA Ship *ALBATROSS IV*. Tows were made with a #36 Yankee otter trawl rigged with rollers, 5 fathom legs and 1000 pound polyvalent doors. The cod end and upper belly were lined with 1/2-inch mesh to retain young-of-the-year fish.

Because of the 30-minute tow duration, and random selection of station locations, catches can be light compared with commercial tows. Also, vessel operations are on a 24-hour basis and catches have not been adjusted for day/night differences. Nevertheless, these data can provide fishermen with useful information about the distribution and relative abundance of species inhabiting the survey area (Cape Hatteras to the Gulf of Maine).

The data are now summarized from audited catch files generated from the Fisheries Scientific Computer System (FSCS).

For further information contact Russell Brown (508-495-2380) or Linda Despres (508-495-2346), NOAA Fisheries Service, Northeast Fisheries Science Center, 166 Water Street, Woods Hole, MA 02543. To view this report in PDF format go the Ecosystems Surveys Branch website at: <http://www.nefsc.noaa.gov/esb> and choose:

- Resource Survey Reports
 - Available RSR
 - Select season and year of interest

Field Notes

In an effort to share some of the natural history observations made during the bottom trawl survey, we have requested that the Chief Scientists on each part of the cruise comment on some of the more interesting catches that were brought aboard the NOAA Ship *ALBATROSS IV*.

Rare Species

The first leg of the spring survey was very cold, and subzero temperatures were consistent for the first week. We noticed that striped bass appeared to be confined to the mouths of the major spawning sites (Chesapeake Bay, Delaware Bay and New York City) rather than scattered up the coast beaches as in past years. Of note was the capture of a sharpnose sevengill shark, *Heptranchias perlo*. This species is small, with a maximum size listed at just over three feet. They are known to feed on squid and shortfin squid were captured with this specimen. This species is considered fairly rare, and I suspect that it is more of a midwater rather than benthic species. An interesting fact about this species is that the flesh is reported to be mildly poisonous.

Memorable Catches

History was made at Oceanographer Canyon, station 204, when over 3200 pounds of barndoor skates and 1500 pounds of winter skates came over the stern and ended up sliding all over the back deck. This is the first time in survey history that so many barndoor skates were landed. These skates ranged in size from 8-52 inches (from the nose tip to tail end); 137 of them were longer than 39 inches! It was amazing to see so many of them concentrated in one area (depth was 182 fm) and to see such a wide size range! This tow eclipses the previous all time record which occurred last spring when 147 barndoors weighing 1500 pounds were brought aboard. The catch of barndoor skates in this one tow exceed the total catch in all spring tows conducted from 1968 – 2005. Both winter and barndoor skates at this station were in a spawning aggregation.

On station 213, 1650 pounds of haddock (1198 individuals) ranging in size from 11-20 inches with a mode at 16 inches were sampled. Fish as small as 12 inches were in spawning condition. This tow was larger than any single haddock tow we had last spring and was likely dominated by fish from the 2003 year class. Haddock from this year class are growing “stubbornly” slow, frustrating both industry members and fishery managers.

The largest catch of fourspot flounder that I have ever seen came aboard on station 217 when 734 pounds of these flounders (1529 individuals) were landed. Fourspots do not support either a directed commercial or recreational fishery and are often combined with other miscellaneous unclassified flatfish when landed.

High Seas Adventure

Leg III of the survey started off uneventful but ended with a blow. Three days into the cruise we encountered gale force winds which forced us to stop operations for about ten hours. Little did we know this was just the beginning. For the next three days the winds continued to blow 20 to 30 knots hampering our progress. We were able to

complete a portion of the cruise track along the coast of Nova Scotia up to the Bay of Fundy when the fun really began. The forecast called for a nor'easter with winds of 40 to 50 knots and gusts up to 60 knots. The commanding officer of the *ALBATROSS IV* prudently decided to seek shelter and late Sunday afternoon we anchored in Machias Bay, Maine. At first the forecast was for the storm to pass through in 24 hours and we assumed that we would start operations again early Tuesday morning. The storm then stalled, continuing to slam the coastline with near hurricane force winds. Unofficially the wind sensors on the bridge recorded a gust of 97 knots. Even though we were in Machias Bay the force and duration of the winds whipped the bay waters into rolling 4 to 6 foot swells. Finally, on Wednesday, morning we ventured out into open waters again where the wind continued to blow 30 to 40 knots and the swells from the storm were periodically hitting 16 to 18 feet. Ironically the trip home was beautiful with cloudless skies and gently rolling seas.

Impressive Cod Tows

I was impressed with two decent sized Atlantic cod tows during the fourth leg of the survey. The first tow (station 327) consisted of 800 individuals ranging in size from 10-29 inches with an overall catch weight of 1835 pounds. The second catch (station 330) resulted in 101 individuals ranging in size from 7-37 inches with a total catch weight of 319 pounds. The presence of juvenile cod in the Gulf of Maine is encouraging.

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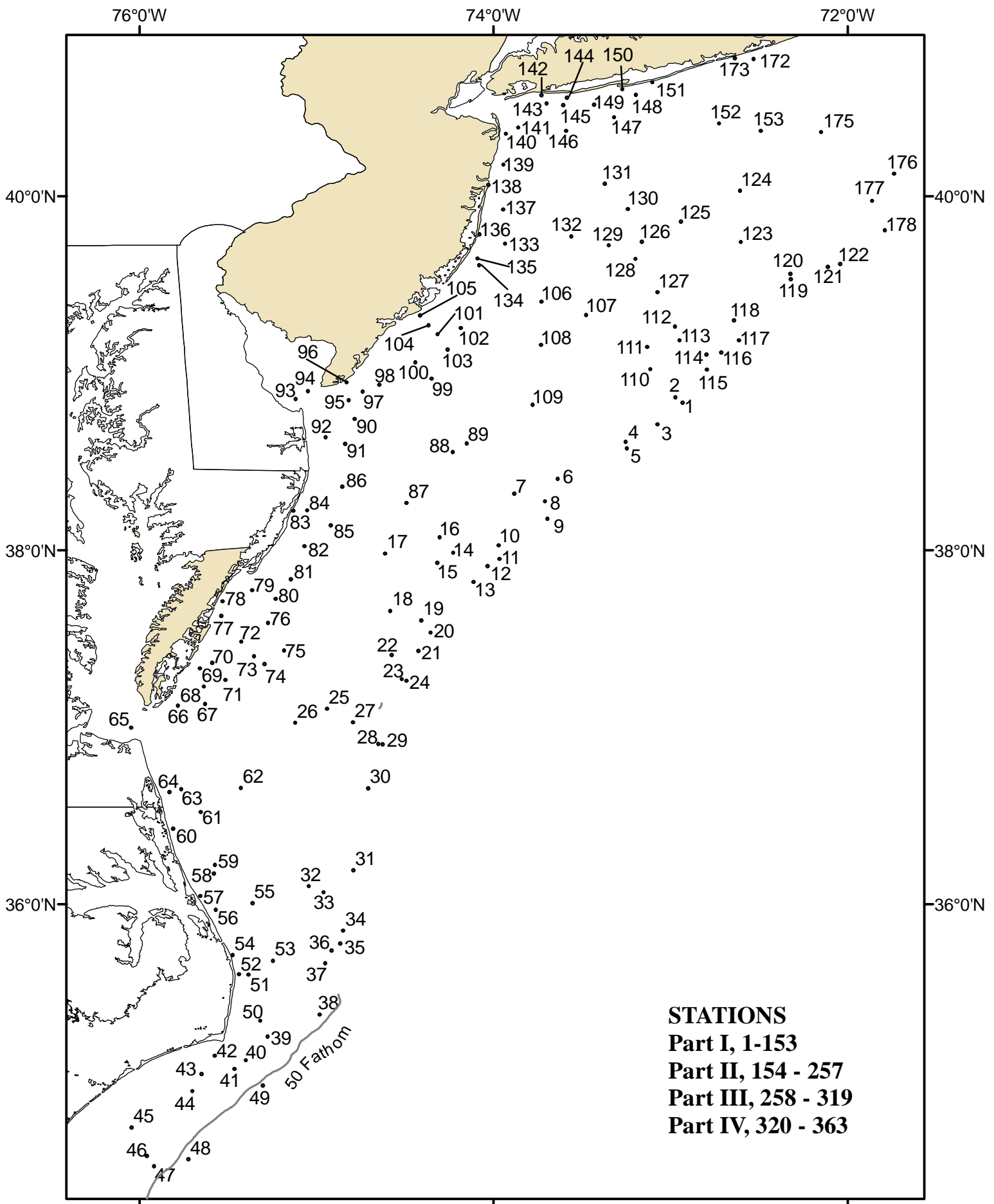


Figure 1. Trawl hauls made from NOAA Ship ALBATROSS IV (07 - 03), during NOAA Fisheries Service, Northeast Fisheries Science Center spring bottom trawl survey, March 7 - April 28, 2007.

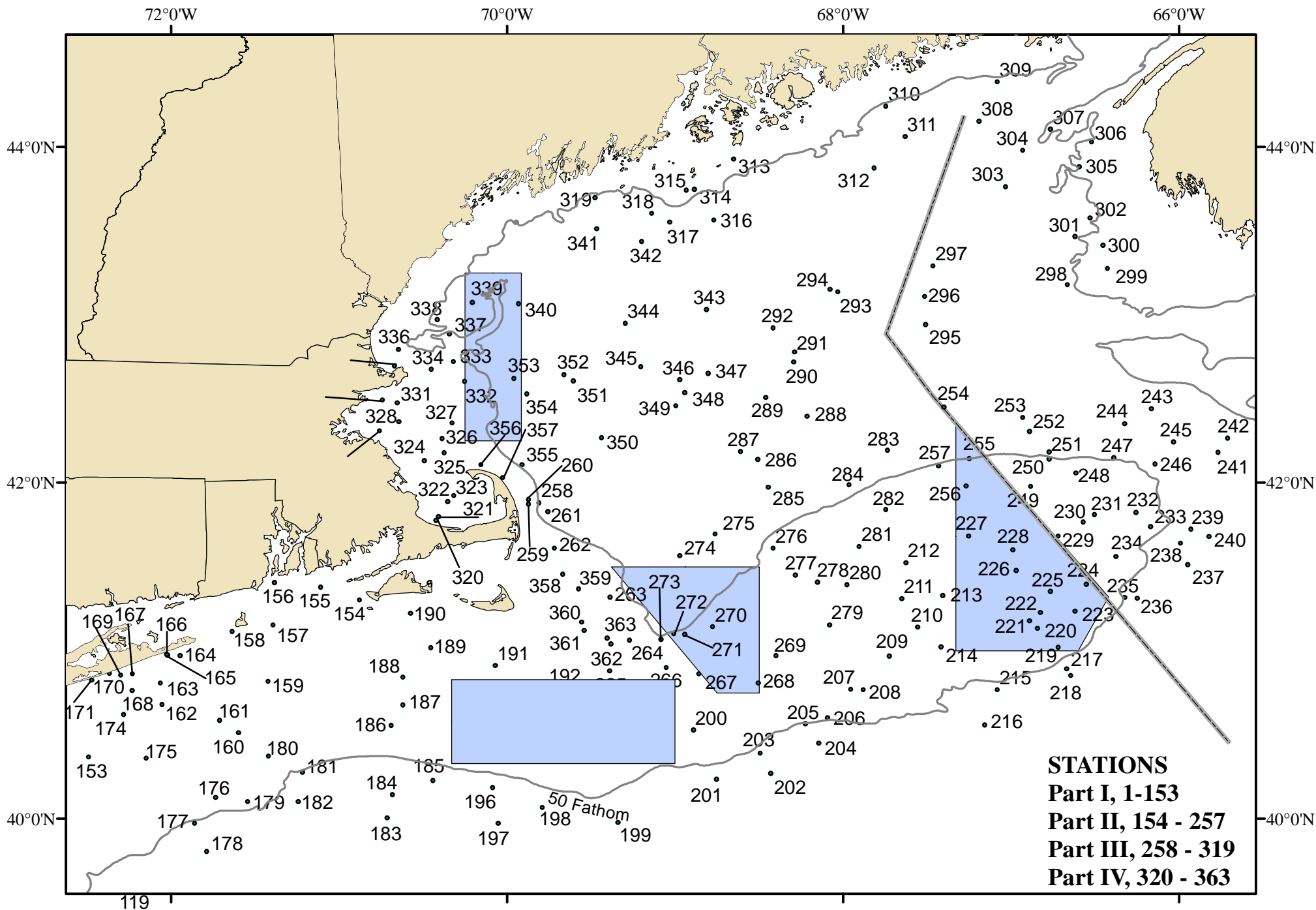


Figure 2. Trawl hauls made from NOAA Ship ALBATROSS IV (07 - 03), during NOAA Fisheries Service, Northeast Fisheries Science Center spring bottom trawl survey, March 7 - April 28, 2007.

NOAA Fisheries Service SPRING BOTTOM TRAWL SURVEY
2007 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0001	Mar-08	0719	3849.9	7255.9	X26390.6	Y42723.2	228	172.8	48.7
0002	Mar-08	0907	3851.8	7258.2	X26405.4	Y42740.0	206	63.7	50.7
0003	Mar-08	1113	3842.6	7304.3	X26438.1	Y42648.7	014	108.5	51.1
0004	Mar-08	1337	3836.8	7315.1	X26498.7	Y42586.0	155	76.0	50.2
0005	Mar-08	1500	3834.5	7314.7	X26494.7	Y42563.8	208	86.9	51.4
0006	Mar-08	1749	3824.1	7338.1	X26621.0	Y42443.2	216	61.0	50.4
0007	Mar-08	1956	3819.1	7353.0	X26698.9	Y42379.0	128	42.7	48.4
0008	Mar-08	2141	3816.5	7342.4	X26637.9	Y42361.9	188	66.2	50.4
0009	Mar-08	2339	3810.6	7341.6	X26627.5	Y42302.3	021	181.5	46.8
0010	Mar-09	0229	3801.6	7358.2	X26708.1	Y42191.6	205	70.8	52.0
0011	Mar-09	0403	3756.9	7357.9	X26701.1	Y42143.8	205	114.3	50.4
0012	Mar-09	0545	3754.6	7402.0	X26720.0	Y42115.0	206	85.8	51.1
0013	Mar-09	0722	3749.2	7406.7	X26738.3	Y42052.3	186	129.9	51.1
0014	Mar-09	0947	3759.1	7413.5	X26785.3	Y42147.7	228	39.6	48.0
0015	Mar-09	1114	3755.7	7419.0	X26809.4	Y42105.3	008	36.1	48.7
0016	Mar-09	1250	3804.4	7418.2	X26817.0	Y42198.7	215	28.2	46.8
0017	Mar-09	1504	3758.8	7436.7	X26904.8	Y42116.7	174	21.6	43.9
0018	Mar-09	1727	3739.4	7434.9	X26867.3	Y41909.1	180	31.2	48.6
0019	Mar-09	1914	3736.2	7424.5	X26812.0	Y41891.0	112	51.1	50.2
0020	Mar-09	2032	3731.9	7421.2	X26791.1	Y41850.9	200	69.7	50.4
0021	Mar-09	2315	3725.8	7425.4	X26803.9	Y41779.7	074	170.6	43.3
0022	Mar-10	0105	3724.5	7434.5	X26845.8	Y41750.7	212	46.8	50.5
0023	Mar-10	0245	3716.2	7431.0	X26819.1	Y41669.4	205	80.7	51.1
0024	Mar-10	0440	3715.7	7429.4	X26811.1	Y41666.9	198	199.3	47.1
0025	Mar-10	0740	3706.2	7456.4	X26922.2	Y41514.1	239	24.3	49.3
0026	Mar-10	0926	3701.4	7507.1	X26962.9	Y41441.6	094	22.1	44.6
0027	Mar-10	1134	3701.6	7447.6	X26876.8	Y41482.8	122	39.1	51.1
0028	Mar-10	1318	3654.4	7438.9	X26830.0	Y41425.2	190	65.6	51.3
0029	Mar-10	1502	3654.2	7437.5	X26823.6	Y41426.8	175	196.9	45.7
0030	Mar-10	1717	3639.3	7442.5	X26828.9	Y41261.7	199	81.5	51.1
0031	Mar-10	2056	3611.6	7447.5	X26821.4	Y40969.6	167	76.3	51.6
0032	Mar-10	2310	3606.2	7502.4	X26875.2	Y40873.5	108	21.3	49.8
0033	Mar-11	0022	3604.0	7457.5	X26853.5	Y40866.7	193	27.9	51.6
0034	Mar-11	0239	3551.0	7450.9	X26815.3	Y40760.3	193	254.0	47.5
0035	Mar-11	0400	3546.7	7451.9	X26815.3	Y40715.7	166	64.5	50.5
0036	Mar-11	0615	3544.3	7454.8	X26824.4	Y40684.1	176	35.3	50.0
0037	Mar-11	0735	3540.0	7456.9	X26828.3	Y40636.8	149	28.4	47.8
0038	Mar-11	1015	3522.6	7458.8	X26820.1	Y40470.7	220	24.9	66.9
0039	Mar-11	1240	3515.1	7516.4	X26876.5	Y40339.9	186	15.3	64.8
0040	Mar-11	1425	3507.0	7523.8	X26894.6	Y40239.8	243	7.7	60.1
0041	Mar-11	1529	3504.2	7527.7	X26905.6	Y40199.2	275	13.1	60.4
0042	Mar-11	1655	3508.6	7534.5	X26933.3	Y40212.3	279	9.8	57.7
0043	Mar-11	1822	3502.5	7539.0	X26942.5	Y40140.7	242	14.8	64.0
0044	Mar-11	1940	3456.7	7542.0	X26946.8	Y40076.6	256	15.6	67.1
0045	Mar-11	2217	3444.4	7602.7	X27002.7	Y39883.6	163	17.5	65.7
0046	Mar-11	2351	3434.7	7557.4	X26975.5	Y39826.6	170	25.4	69.1
0047	Mar-12	0054	3431.2	7555.0	X26964.2	Y39809.9	071	32.8	68.5
0048	Mar-12	0234	3433.6	7543.4	X26928.9	Y39880.2	037	88.3	61.5

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2007 STATION INFORMATION

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0049	Mar-12	0638	3458.6	7518.1	X26867.4	Y40189.4	050	80.4	65.3
0050	Mar-12	0917	3520.4	7519.0	X26890.6	Y40378.8	343	13.9	60.3
0051	Mar-12	1201	3536.1	7523.0	X26920.9	Y40513.0	258	9.0	45.0
0052	Mar-12	1313	3536.2	7526.2	X26932.9	Y40503.5	339	9.0	44.4
0053	Mar-12	1506	3540.8	7514.6	X26895.0	Y40586.3	315	17.8	52.2
0054	Mar-12	1650	3542.8	7528.3	X26948.1	Y40561.7	357	8.5	44.1
0055	Mar-12	1923	3600.4	7521.6	X26943.2	Y40759.8	332	13.4	45.0
0056	Mar-12	2110	3558.2	7534.0	X26987.5	Y40700.6	320	10.7	44.2
0057	Mar-12	2221	3602.7	7539.3	X27013.5	Y40732.7	303	6.6	43.7
0058	Mar-12	2350	3610.4	7534.8	X27006.3	Y40827.0	021	13.1	44.1
0059	Mar-13	0051	3613.3	7534.3	X27008.2	Y40858.8	316	15.0	44.1
0060	Mar-13	0303	3625.6	7548.5	X27081.0	Y40957.3	351	7.1	44.1
0061	Mar-13	0440	3631.2	7539.2	X27052.9	Y41041.4	047	12.0	43.3
0062	Mar-13	0649	3639.4	7525.5	X27009.1	Y41162.1	279	13.7	43.7
0063	Mar-13	0858	3639.0	7545.8	X27091.1	Y41112.2	235	9.6	43.2
0064	Mar-13	1008	3638.1	7549.8	X27105.5	Y41093.2	310	7.9	42.8
0065	Mar-13	1256	3659.8	7602.8	X27195.6	Y41315.9	328	6.6	43.2
0066	Mar-13	1558	3707.3	7546.9	X27143.3	Y41430.7	020	5.2	43.5
0067	Mar-13	1727	3707.8	7537.7	X27105.3	Y41453.8	057	10.1	42.3
0068	Mar-13	1846	3713.7	7538.1	X27117.6	Y41520.2	333	8.7	42.8
0069	Mar-13	1954	3719.8	7539.5	X27134.7	Y41587.1	357	5.5	43.0
0070	Mar-13	2102	3721.8	7535.3	X27119.9	Y41617.1	147	7.1	43.2
0071	Mar-13	2229	3716.0	7530.8	X27089.6	Y41558.6	018	10.9	41.9
0072	Mar-14	0032	3728.9	7525.4	X27088.6	Y41713.7	106	12.8	41.7
0073	Mar-14	0148	3724.1	7521.0	X27060.5	Y41667.1	135	15.0	42.6
0074	Mar-14	0252	3721.4	7517.5	X27040.1	Y41642.9	048	17.5	43.5
0075	Mar-14	0426	3725.9	7510.9	X27017.2	Y41704.5	006	12.3	43.2
0076	Mar-14	0617	3735.3	7516.4	X27058.8	Y41800.7	019	12.8	41.7
0077	Mar-14	0834	3737.7	7532.2	X27136.1	Y41803.2	001	6.6	42.3
0078	Mar-14	0951	3742.5	7531.9	X27144.2	Y41859.8	209	5.5	42.6
0079	Mar-14	1141	3746.4	7521.8	X27105.0	Y41918.4	106	8.5	42.8
0080	Mar-14	1306	3743.5	7513.8	X27061.6	Y41896.0	065	11.2	42.4
0081	Mar-14	1424	3750.2	7508.6	X27049.0	Y41979.3	020	12.0	41.5
0082	Mar-14	1558	3801.3	7504.1	X27047.6	Y42110.2	342	7.9	41.2
0083	Mar-14	1741	3813.3	7507.8	X27090.2	Y42241.4	022	6.0	41.5
0084	Mar-14	1855	3813.5	7503.0	X27066.0	Y42248.6	082	9.6	40.6
0085	Mar-14	2035	3808.4	7455.1	X27015.6	Y42200.2	030	12.0	42.1
0086	Mar-14	2227	3821.5	7451.2	X27020.4	Y42350.2	132	9.8	41.0
0087	Mar-15	0047	3815.9	7429.4	X26894.0	Y42310.0	050	22.4	45.1
0088	Mar-15	0326	3833.2	7413.7	X26834.9	Y42510.9	032	26.2	46.0
0089	Mar-15	0447	3836.1	7408.9	X26811.8	Y42544.9	285	28.2	45.5
0090	Mar-15	0831	3844.5	7447.0	X27044.5	Y42610.2	226	9.6	39.7
0091	Mar-15	1012	3836.0	7450.2	X27044.4	Y42513.2	317	13.7	42.1
0092	Mar-15	1128	3838.2	7456.8	X27085.6	Y42533.4	338	8.5	40.8
0093	Mar-15	1333	3851.2	7506.9	X27172.1	Y42674.0	323	9.6	39.2
0094	Mar-15	1445	3853.9	7502.8	X27155.8	Y42706.7	181	7.4	39.6
0095	Mar-15	1653	3850.7	7448.9	X27069.6	Y42679.2	023	6.8	39.2
0096	Mar-15	1817	3856.9	7449.7	X27088.2	Y42747.3	049	5.7	39.2

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2007 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0097	Mar-15	1948	3853.7	7444.2	X27049.4	Y42715.1	068	9.0	39.4
0098	Mar-15	2053	3855.9	7438.7	X27021.8	Y42742.2	060	6.3	40.1
0099	Mar-15	2332	3858.0	7420.9	X26920.8	Y42773.1	302	15.9	42.1
0100	Mar-16	0102	3903.7	7426.3	X26964.9	Y42833.0	051	12.3	40.5
0101	Mar-16	0258	3908.0	7415.5	X26907.3	Y42883.0	011	12.6	41.0
0102	Mar-16	0510	3915.3	7411.1	X26893.9	Y42961.7	049	15.0	39.9
0103	Mar-16	0707	3913.1	7418.8	X26938.5	Y42936.9	044	12.0	40.3
0104	Mar-17	0659	3916.2	7421.9	X26964.7	Y42970.5	059	8.7	38.5
0105	Mar-17	0841	3919.6	7424.9	X26991.0	Y43006.2	096	5.7	37.8
0106	Mar-17	1232	3924.2	7343.8	X26732.3	Y43056.5	175	18.0	41.0
0107	Mar-17	1427	3919.6	7328.5	X26624.0	Y43009.3	168	26.2	42.3
0108	Mar-17	1652	3909.5	7343.9	X26710.1	Y42905.2	152	21.1	39.9
0109	Mar-17	2000	3849.2	7346.6	X26699.0	Y42695.2	101	27.1	43.3
0110	Mar-18	0013	3901.3	7306.8	X26464.7	Y42829.7	306	40.7	48.0
0111	Mar-18	0610	3908.8	7307.8	X26476.9	Y42902.7	291	37.2	46.2
0112	Mar-18	0907	3915.7	7258.3	X26420.1	Y42970.8	290	39.6	45.9
0113	Mar-18	1143	3911.0	7256.8	X26407.2	Y42925.1	308	41.3	46.8
0114	Mar-18	1451	3901.1	7247.7	X26344.0	Y42832.4	018	85.3	50.4
0115	Mar-18	1647	3906.9	7242.8	X26314.7	Y42888.1	146	128.5	48.2
0116	Mar-19	0625	3906.2	7247.8	X26346.7	Y42880.9	351	62.9	50.5
0117	Mar-19	0825	3911.1	7236.7	X26276.8	Y42927.4	342	77.6	51.8
0118	Mar-19	0953	3917.9	7238.4	X26289.2	Y42991.0	317	66.4	50.5
0119	Mar-19	1251	3931.8	7219.2	X26162.9	Y43115.2	107	137.5	52.2
0120	Mar-19	1428	3933.6	7219.4	X26163.7	Y43130.7	066	64.5	51.1
0121	Mar-19	1624	3936.1	7206.6	X26075.9	Y43149.0	306	82.3	52.3
0122	Mar-19	1804	3937.0	7202.4	X26047.2	Y43156.0	046	112.1	48.4
0123	Mar-20	0853	3944.4	7236.1	X26284.1	Y43235.1	214	41.6	45.7
0124	Mar-20	1144	4001.8	7236.3	X26297.1	Y43393.0	247	33.4	44.2
0125	Mar-20	1418	3951.3	7256.4	X26436.9	Y43309.1	282	33.9	44.2
0126	Mar-20	1620	3944.5	7309.6	X26525.0	Y43249.9	170	24.1	41.5
0127	Mar-20	1849	3927.4	7304.4	X26470.3	Y43083.7	301	35.3	44.2
0128	Mar-20	2244	3938.6	7311.7	X26532.8	Y43194.4	340	23.2	42.3
0129	Mar-21	0029	3943.3	7320.9	X26604.0	Y43243.1	002	21.1	42.3
0130	Mar-21	0229	3955.5	7314.4	X26575.5	Y43358.8	284	35.5	43.0
0131	Mar-21	0424	4004.2	7322.2	X26648.1	Y43448.3	249	26.0	42.4
0132	Mar-21	0706	3946.3	7333.6	X26699.6	Y43277.9	246	19.4	41.2
0133	Mar-21	0918	3943.8	7355.9	X26852.3	Y43260.6	236	13.4	39.7
0134	Mar-21	1048	3936.6	7404.8	X26897.7	Y43187.5	228	9.6	39.4
0135	Mar-21	1204	3938.8	7405.3	X26906.2	Y43211.1	313	8.2	39.7
0136	Mar-21	1345	3947.0	7404.6	X26919.5	Y43296.6	010	4.6	40.3
0137	Mar-21	1525	3955.4	7356.6	X26883.3	Y43381.2	337	10.9	39.9
0138	Mar-21	1653	4003.7	7401.8	X26940.5	Y43469.8	016	8.2	40.1
0139	Mar-21	1819	4010.6	7356.5	X26919.6	Y43537.0	064	10.9	40.1
0140	Mar-21	2055	4021.0	7355.7	X26940.9	Y43641.6	355	10.4	39.7
0141	Mar-21	2208	4023.1	7351.5	X26914.2	Y43658.8	014	12.3	40.3
0142	Mar-21	2353	4034.2	7343.6	X26882.1	Y43759.4	089	6.0	39.9
0143	Mar-22	0101	4031.4	7341.9	X26860.9	Y43729.5	120	10.1	39.4
0144	Mar-22	0211	4033.3	7335.0	X26810.8	Y43740.2	088	6.6	39.9

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0145	Mar-22	0324	4030.9	7336.3	X26815.2	Y43718.6	284	9.6	39.2
0146	Mar-22	0512	4022.0	7335.3	X26785.8	Y43631.6	122	12.8	39.0
0147	Mar-22	0725	4031.0	7325.8	X26731.6	Y43707.9	104	11.5	38.8
0148	Mar-22	0857	4026.7	7319.1	X26667.8	Y43659.9	106	17.2	38.3
0149	Mar-22	1047	4036.2	7316.3	X26666.2	Y43745.4	069	10.4	37.6
0150	Mar-22	1152	4034.2	7311.7	X26624.5	Y43722.2	080	13.1	38.3
0151	Mar-22	1304	4038.4	7306.0	X26586.8	Y43753.4	067	6.6	38.1
0152	Mar-22	1559	4024.5	7243.5	X26378.1	Y43603.5	140	26.2	40.6
0153	Mar-22	1808	4022.0	7229.4	X26261.8	Y43567.3	129	28.7	41.9
0154	Mar-26	1538	4118.1	7052.7	X25496.5	Y43882.6	356	16.7	39.0
0155	Mar-26	1732	4122.6	7106.5	X25633.1	Y43933.4	198	13.9	38.5
0156	Mar-26	1949	4124.3	7123.0	X25787.1	Y43970.5	165	17.8	38.7
0157	Mar-26	2152	4109.1	7123.5	X25755.6	Y43862.4	196	17.8	41.0
0158	Mar-27	0008	4106.9	7138.1	X25882.3	Y43867.0	150	16.7	40.3
0159	Mar-27	0251	4049.0	7125.2	X25749.3	Y43715.6	203	33.6	42.4
0160	Mar-27	0538	4030.7	7135.9	X25834.6	Y43585.7	301	41.3	43.5
0161	Mar-27	0658	4035.1	7142.6	X25889.6	Y43627.9	359	37.2	43.2
0162	Mar-27	0923	4040.8	7203.2	X26065.4	Y43697.1	353	26.8	42.1
0163	Mar-27	1048	4048.4	7203.7	X26078.2	Y43759.0	037	21.9	41.7
0164	Mar-27	1240	4058.3	7156.7	X26031.8	Y43827.7	253	13.4	40.8
0165	Mar-27	1345	4058.3	7201.2	X26071.8	Y43834.5	234	10.9	40.5
0166	Mar-27	1458	4058.8	7201.5	X26074.8	Y43838.3	228	7.7	40.6
0167	Mar-27	1639	4051.8	7213.8	X26170.2	Y43799.4	252	16.4	41.5
0168	Mar-27	1807	4045.7	7213.9	X26161.8	Y43750.2	350	22.1	40.8
0169	Mar-27	1918	4051.3	7217.9	X26205.0	Y43801.0	259	13.1	41.4
0170	Mar-27	2017	4051.9	7222.0	X26240.9	Y43811.5	239	7.4	41.7
0171	Mar-27	2128	4049.5	7228.3	X26291.0	Y43800.0	247	9.6	41.4
0172	Mar-27	2249	4046.4	7231.7	X26314.7	Y43778.9	230	14.2	40.1
0173	Mar-27	2358	4046.7	7238.2	X26370.0	Y43790.1	256	9.0	41.0
0174	Mar-28	0258	4037.2	7216.8	X26175.3	Y43683.0	155	26.8	41.5
0175	Mar-28	0509	4021.6	7208.8	X26096.6	Y43543.4	131	34.4	43.0
0176	Mar-28	0756	4007.5	7144.1	X25904.6	Y43405.3	191	44.8	44.1
0177	Mar-28	0940	3958.3	7151.5	X25962.7	Y43333.4	116	56.9	47.5
0178	Mar-28	1236	3948.3	7147.2	X25937.2	Y43247.1	018	157.5	48.2
0179	Mar-28	1523	4006.0	7132.6	X25820.4	Y43384.9	338	48.1	46.2
0180	Mar-28	1758	4022.3	7125.1	X25752.6	Y43509.6	158	43.2	43.5
0181	Mar-28	1952	4016.6	7113.1	X25667.8	Y43454.9	172	52.2	41.9
0182	Mar-28	2141	4006.1	7114.6	X25692.1	Y43373.2	090	80.4	52.9
0183	Mar-29	0117	4000.3	7042.8	X25496.6	Y43308.5	276	143.5	49.8
0184	Mar-29	0350	4008.6	7040.8	X25465.3	Y43370.1	015	69.4	52.9
0185	Mar-29	0631	4013.7	7026.5	X25367.4	Y43398.0	311	60.7	53.2
0186	Mar-29	1029	4033.4	7041.3	X25411.8	Y43553.2	001	37.5	38.8
0187	Mar-29	1200	4040.7	7037.2	X25367.2	Y43601.7	356	32.8	39.7
0188	Mar-29	1334	4050.6	7037.1	X25348.6	Y43672.0	349	29.5	39.9
0189	Mar-29	1531	4101.2	7027.1	X25254.2	Y43734.1	320	23.8	39.0
0190	Mar-29	1735	4113.4	7034.5	X25321.9	Y43826.0	122	18.6	37.8
0191	Mar-29	2049	4054.6	7004.2	X25110.3	Y43664.8	126	14.5	39.7
0192	Mar-29	2301	4046.8	6945.0	W13995.2	Y43593.6	152	21.1	40.1

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0193	Mar-30	0059	4036.7	6936.5	W13987.1	Y43519.9	222	33.6	40.1
0194	Mar-30	0256	4025.7	6946.7	W14078.5	Y43453.8	235	41.3	39.9
0195	Mar-30	0443	4023.5	7000.5	X25205.3	Y43449.2	174	44.6	40.6
0196	Mar-30	0643	4011.1	7005.1	X25266.5	Y43365.4	270	57.4	50.4
0197	Mar-30	0930	3958.4	7003.1	X25297.5	Y43273.1	288	103.1	52.9
0198	Mar-30	1152	4004.0	6947.4	W14152.2	Y43304.8	124	65.3	52.7
0199	Mar-30	1442	3958.6	6920.3	W14035.2	Y43254.8	065	71.6	48.9
0200	Mar-30	1916	4031.7	6853.4	W13789.7	Y43455.0	144	39.9	40.5
0201	Mar-30	2158	4014.1	6845.1	W13814.7	Y43338.8	100	66.7	45.3
0202	Mar-31	0006	4016.2	6825.8	W13717.2	Y43342.2	081	83.1	46.4
0203	Mar-31	0200	4023.4	6829.5	W13707.8	Y43388.2	085	56.9	41.4
0204	Mar-31	0530	4027.0	6808.6	W13598.8	Y43398.1	335	161.6	44.1
0205	Mar-31	0757	4034.0	6813.4	W13593.0	Y43442.4	081	52.8	40.6
0206	Mar-31	0917	4036.0	6805.4	W13549.3	Y43449.4	024	50.9	40.5
0207	Mar-31	1108	4046.1	6757.1	W13470.7	Y43503.0	078	39.6	40.1
0208	Mar-31	1222	4046.1	6752.6	W13451.0	Y43499.8	034	38.3	40.1
0209	Mar-31	1442	4058.1	6743.4	W13359.5	Y43561.5	049	34.4	39.7
0210	Mar-31	1643	4108.4	6733.3	W13270.8	Y43610.4	005	28.7	40.1
0211	Mar-31	1817	4118.5	6738.9	W13248.8	Y43669.6	354	21.6	41.0
0212	Mar-31	2004	4131.4	6737.5	W13182.3	Y43737.4	098	21.1	41.5
0213	Mar-31	2211	4119.6	6724.4	W13181.6	Y43663.6	179	23.2	41.0
0214	Apr-01	0031	4101.4	6725.0	W13266.3	Y43565.9	135	38.3	39.7
0215	Apr-01	0315	4046.0	6704.8	W13250.1	Y43469.1	196	55.5	40.8
0216	Apr-01	0522	4033.5	6709.4	W13320.1	Y43403.3	051	99.0	45.9
0217	Apr-01	0900	4051.1	6638.5	W13125.5	Y43481.2	058	121.4	46.9
0218	Apr-01	1017	4053.5	6640.1	W13121.1	Y43494.7	230	61.5	47.1
0219	Apr-01	1211	4101.2	6643.0	W13098.7	Y43536.4	316	41.6	40.6
0220	Apr-01	1343	4108.0	6650.5	W13097.2	Y43576.6	289	39.6	40.3
0221	Apr-01	1450	4110.7	6653.4	W13096.4	Y43592.7	043	39.6	40.1
0222	Apr-01	1558	4113.6	6649.5	W13067.8	Y43605.2	094	40.5	39.9
0223	Apr-01	1743	4114.0	6637.2	W13018.8	Y43598.4	014	46.8	40.3
0224	Apr-01	1929	4123.8	6633.1	W12958.5	Y43644.5	266	49.2	40.3
0225	Apr-01	2105	4121.2	6645.9	W13019.3	Y43641.0	289	41.3	39.6
0226	Apr-01	2251	4128.6	6658.1	W13031.7	Y43688.7	311	36.4	39.6
0227	Apr-02	0132	4140.8	6715.2	W13041.7	Y43765.6	107	30.3	41.9
0228	Apr-02	0325	4136.0	6659.3	W13000.8	Y43727.2	054	35.0	40.5
0229	Apr-02	0531	4140.9	6643.1	W12914.1	Y43737.7	042	36.9	40.5
0230	Apr-02	0701	4146.0	6634.1	W12855.0	Y43754.9	027	41.8	40.3
0231	Apr-02	0808	4148.7	6630.0	W12827.0	Y43764.3	083	43.2	40.1
0232	Apr-02	0953	4149.3	6615.4	W12771.2	Y43755.2	137	45.9	41.0
0233	Apr-02	1109	4144.3	6610.2	W12777.9	Y43726.9	231	48.9	41.9
0234	Apr-02	1313	4133.6	6622.5	W12873.1	Y43685.1	171	49.2	40.3
0235	Apr-02	1520	4119.0	6619.3	W12930.3	Y43610.8	152	56.0	40.8
0236	Apr-02	1641	4118.6	6615.0	W12916.1	Y43606.1	056	74.1	40.8
0237	Apr-02	1938	4130.7	6556.8	W12796.8	Y43652.4	005	107.7	45.1
0238	Apr-02	2127	4138.3	6559.4	W12769.3	Y43690.4	344	55.5	43.3
0239	Apr-02	2311	4143.4	6555.7	W12732.8	Y43711.3	032	61.0	43.2
0240	Apr-03	0159	4140.8	6549.2	W12723.7	Y43694.2	028	99.2	44.4

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0241	Apr-03	0750	4210.9	6546.0	W12564.6	Y43829.6	095	128.0	44.8
0242	Apr-03	0952	4215.9	6542.5	W12528.3	Y43848.5	311	110.7	41.5
0243	Apr-03	1512	4226.4	6609.8	W12561.2	Y43919.9	245	134.5	44.4
0244	Apr-03	1811	4221.0	6619.4	W12622.7	Y43905.1	122	132.9	44.1
0245	Apr-03	2105	4214.6	6601.9	W12597.1	Y43859.9	093	135.1	44.4
0246	Apr-03	2358	4206.6	6608.5	W12660.3	Y43829.7	127	53.9	43.2
0247	Apr-04	0230	4208.9	6623.2	W12699.9	Y43853.4	246	76.3	43.9
0248	Apr-04	0416	4203.4	6636.8	W12777.2	Y43840.4	231	42.1	41.4
0249	Apr-04	0607	4158.6	6652.8	W12862.9	Y43832.6	015	32.8	41.2
0250	Apr-04	0801	4208.5	6646.3	W12786.5	Y43873.6	298	50.0	42.8
0251	Apr-04	0935	4211.1	6646.4	W12773.0	Y43885.9	268	112.6	43.2
0252	Apr-04	1156	4218.3	6653.4	W12761.2	Y43926.8	286	164.9	43.9
0253	Apr-04	1351	4223.2	6655.8	W12743.2	Y43952.5	268	194.7	43.3
0254	Apr-04	1801	4227.0	6724.0	W12836.0	Y44001.1	157	181.3	43.9
0255	Apr-04	2057	4208.7	6714.8	W12897.7	Y43903.5	126	50.9	42.4
0256	Apr-05	0048	4158.7	6716.1	W12955.1	Y43856.2	088	28.7	41.5
0257	Apr-05	0344	4205.9	6725.8	W12958.0	Y43901.9	072	42.7	42.8
0258	Apr-09	2049	4152.3	6952.2	W13759.4	Y44012.1	345	26.5	39.6
0259	Apr-09	2145	4154.0	6952.3	W13752.6	Y44021.8	173	27.3	
0260	Apr-09	2303	4152.8	6948.6	W13736.8	Y44009.6	345	47.3	40.5
0261	Apr-10	0047	4149.6	6945.5	W13734.1	Y43986.5	132	69.4	40.8
0262	Apr-10	0252	4136.6	6943.0	W13780.5	Y43905.9	148	20.5	39.9
0263	Apr-10	0540	4119.1	6923.2	W13749.8	Y43776.2	154	26.5	40.1
0264	Apr-10	0746	4103.8	6916.2	W13777.6	Y43674.8	200	31.4	41.2
0265	Apr-10	1028	4052.8	6923.3	W13858.5	Y43612.6	260	24.9	40.8
0266	Apr-10	1259	4053.9	6903.1	W13751.3	Y43600.9	109	45.7	41.5
0267	Apr-10	1442	4051.7	6851.4	W13701.9	Y43577.8	122	38.0	41.4
0268	Apr-10	1653	4048.4	6830.3	W13613.6	Y43540.8	358	31.7	40.8
0269	Apr-10	1837	4058.3	6823.8	W13542.2	Y43593.8	360	26.8	41.0
0270	Apr-10	2120	4108.5	6846.5	W13607.6	Y43674.1	336	43.5	41.4
0271	Apr-10	2303	4105.9	6856.5	W13668.7	Y43668.3	254	51.4	41.7
0272	Apr-11	0015	4106.2	6900.4	W13686.9	Y43674.0	232	50.9	41.7
0273	Apr-11	0132	4104.1	6905.0	W13718.9	Y43665.4	007	50.3	41.7
0274	Apr-11	0501	4133.8	6858.3	W13553.5	Y43834.5	040	61.2	42.1
0275	Apr-11	0729	4141.7	6845.6	W13451.9	Y43864.2	121	87.5	42.6
0276	Apr-11	0948	4136.5	6824.9	W13374.8	Y43812.3	158	22.4	41.4
0277	Apr-11	1138	4127.0	6816.9	W13382.0	Y43751.2	192	28.2	41.0
0278	Apr-11	1307	4124.5	6809.0	W13356.5	Y43729.7	165	20.5	41.0
0279	Apr-11	1545	4109.2	6804.8	W13406.6	Y43640.5	354	26.5	40.6
0280	Apr-11	1738	4123.5	6758.5	W13312.6	Y43714.5	359	21.1	41.2
0281	Apr-11	1939	4137.2	6754.2	W13227.7	Y43784.2	354	19.1	41.5
0282	Apr-11	2148	4150.4	6744.7	W13119.9	Y43843.8	002	20.0	42.1
0283	Apr-12	0057	4211.5	6744.1	W13007.2	Y43949.7	212	113.7	44.6
0284	Apr-12	0314	4159.2	6757.7	W13133.2	Y43903.3	219	100.1	44.1
0285	Apr-12	0617	4158.3	6826.7	W13275.4	Y43932.2	358	93.8	43.2
0286	Apr-12	0812	4208.4	6830.4	W13240.8	Y43989.5	298	96.5	42.6
0287	Apr-12	0942	4211.1	6836.5	W13256.7	Y44011.8	027	89.7	43.0
0288	Apr-12	1253	4223.6	6812.8	W13073.0	Y44044.3	354	105.0	44.8

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0289	Apr-12	1458	4230.4	6827.5	W13106.6	Y44097.1	066	116.5	45.3
0290	Apr-12	1803	4243.0	6817.6	W12985.6	Y44144.5	069	103.1	44.6
0291	Apr-12	1954	4246.7	6817.3	W12962.2	Y44161.4	266	113.7	44.4
0292	Apr-13	0720	4255.2	6825.0	W12948.6	Y44212.0	310	98.4	44.6
0293	Apr-13	1155	4308.1	6801.8	W12758.4	Y44237.4	285	102.0	43.5
0294	Apr-13	1324	4309.0	6804.7	W12766.1	Y44245.2	085	104.7	
0295	Apr-13	1746	4256.4	6730.4	W12692.1	Y44143.6	300	132.6	44.6
0296	Apr-13	1950	4306.4	6730.8	W12632.8	Y44188.1	315	104.2	44.8
0297	Apr-13	2221	4317.4	6727.8	W12551.8	Y44230.7	270	109.4	44.8
0298	Apr-14	0348	4310.7	6639.8	W12411.8	Y44142.9	236	60.4	40.1
0299	Apr-14	0832	4316.4	6625.5	W12329.1	Y44149.5	265	36.9	37.0
0300	Apr-14	1131	4324.8	6627.1	W12283.6	Y44185.3	294	49.8	38.5
0301	Apr-14	1310	4328.0	6637.2	W12296.6	Y44210.1	321	56.9	41.2
0302	Apr-14	1604	4334.5	6631.7	W12238.1	Y44229.3	332	62.9	40.3
0303	Apr-14	2000	4345.7	6701.8	W12268.1	Y44310.7	015	90.8	43.7
0304	Apr-14	2226	4358.6	6655.8	W12161.1	Y44351.7	116	87.5	44.6
0305	Apr-15	0111	4352.8	6635.5	W12134.2	Y44303.8	046	44.0	38.8
0306	Apr-15	0254	4401.6	6631.2	W12063.5	Y44331.0	284	52.5	39.0
0307	Apr-15	0447	4406.2	6645.9	W12078.2	Y44366.5	018	54.4	40.1
0308	Apr-15	0738	4409.1	6711.4	W12144.2	Y44411.0	286	84.2	42.4
0309	Apr-15	1016	4423.1	6704.9	W12023.2	Y44451.8	241	79.6	42.1
0310	Apr-18	0858	4414.5	6744.6	W12234.1	Y44477.1	070	61.2	38.3
0311	Apr-18	1202	4403.5	6737.8	W12284.1	Y44427.4	080	110.2	45.3
0312	Apr-18	1439	4352.4	6748.8	W12407.8	Y44401.1	081	112.4	46.0
0313	Apr-18	1908	4355.5	6839.0	W12625.0	Y44489.0	174	51.1	37.4
0314	Apr-18	2215	4344.8	6853.1	W12773.9	Y44469.5	355	44.0	38.1
0315	Apr-19	0010	4344.5	6855.9	W12791.1	Y44472.9	360	31.7	38.1
0316	Apr-19	0412	4333.7	6846.1	W12811.1	Y44413.2	043	87.5	39.0
0317	Apr-19	0657	4333.0	6901.9	W12901.1	Y44435.6	055	70.0	39.0
0318	Apr-19	0903	4336.2	6908.2	W12915.1	Y44459.2	054	62.6	38.8
0319	Apr-19	1210	4341.7	6928.5	W12994.4	Y44516.7	200	62.9	38.3
0320	Apr-23	1920	4146.5	7025.4	X25402.1	Y44026.6	109	10.1	43.9
0321	Apr-23	2030	4147.9	7024.4	X25404.6	Y44033.6	033	12.0	41.5
0322	Apr-23	2143	4153.3	7021.1	X25419.9	Y44061.5	034	17.5	40.5
0323	Apr-23	2250	4155.4	7019.0	X25420.6	Y44070.5	336	20.0	41.2
0324	Apr-24	0100	4207.9	7029.5	X25572.0	Y44161.5	025	29.8	40.3
0325	Apr-24	0224	4210.7	7022.4	X25547.4	Y44165.9	003	34.2	40.5
0326	Apr-24	0411	4215.8	7023.1	X25585.5	Y44195.9	008	48.1	39.9
0327	Apr-24	0526	4221.3	7019.5	X25602.4	Y44221.0	306	17.0	39.4
0328	Apr-24	0735	4221.7	7038.5	X25719.6	Y44256.3	186	35.0	39.9
0329	Apr-24	0936	4218.5	7045.4	X25745.3	Y44250.8	303	13.7	39.7
0330	Apr-24	1402	4229.5	7044.4	X25806.2	Y44310.7	209	25.7	39.4
0331	Apr-24	1703	4228.4	7039.3	X25766.7	Y44295.3	016	38.5	39.6
0332	Apr-24	2006	4236.2	7015.1	X25676.6	Y44293.9	166	38.5	39.7
0333	Apr-24	2332	4243.3	7019.1	X25743.1	Y44337.8	218	29.8	39.2
0334	Apr-25	0044	4240.5	7026.9	X25769.0	Y44337.9	274	26.5	39.4
0335	Apr-25	0209	4241.6	7040.2	X25853.7	Y44368.3	272	10.9	39.4
0336	Apr-25	0338	4247.6	7038.7	X25880.9	Y44396.5	359	41.3	39.4

NOAA Fisheries Service SPRING BOTTOM TRAWL SURVEY
2007 STATION INFORMATION

Station	Date	Time	Lat	Lon	Loran TD's		Course	Bottom Depth (FM)	Temp (F)
0337	Apr-25	0613	4253.1	7020.5	X25811.6	Y44390.2	288	74.9	39.7
0338	Apr-25	0832	4258.3	7024.9	X25866.7	Y44424.3	196	61.5	39.7
0339	Apr-25	1059	4304.4	7012.4	X25838.0	Y44430.4	092	91.0	39.7
0340	Apr-25	1252	4304.0	6955.8	W13397.1	Y44398.4	059	104.7	40.8
0341	Apr-25	1641	4330.6	6927.9	W13064.1	Y44469.1	071	83.1	39.4
0342	Apr-25	1850	4326.2	6911.8	W13000.7	Y44423.0	136	96.2	40.5
0343	Apr-25	2239	4301.9	6848.7	W13029.0	Y44277.7	264	103.6	44.6
0344	Apr-26	0145	4256.9	6917.7	W13216.9	Y44300.1	121	89.1	41.4
0345	Apr-26	0424	4241.3	6912.1	W13277.1	Y44216.0	110	88.0	44.1
0346	Apr-26	0640	4236.8	6858.3	W13228.3	Y44172.4	129	103.3	44.8
0347	Apr-26	0830	4239.0	6848.2	W13162.4	Y44168.5	209	93.2	42.4
0348	Apr-26	1017	4232.2	6856.5	W13244.8	Y44147.0	147	119.2	44.8
0349	Apr-26	1147	4227.4	6859.6	W13288.2	Y44127.0	229	124.7	44.1
0350	Apr-26	1453	4216.1	6926.2	W13493.9	Y44106.9	328	122.8	43.0
0351	Apr-26	1808	4236.3	6936.3	W13441.8	Y44229.1	304	156.1	46.6
0352	Apr-26	2002	4238.6	6939.6	W13448.1	Y44245.9	281	147.4	46.4
0353	Apr-26	2225	4237.3	6957.5	W13560.8	Y44269.0	143	98.2	40.8
0354	Apr-26	2346	4231.7	6952.9	W13563.9	Y44232.0	174	107.7	41.4
0355	Apr-27	0254	4206.4	6954.7	W13705.7	Y44096.9	279	55.5	39.9
0356	Apr-27	0436	4206.3	7009.2	X25442.6	Y44119.1	093	20.8	42.1
0357	Apr-27	0619	4201.8	7001.5	X25371.6	Y44081.0	151	10.7	43.0
0358	Apr-27	1034	4127.4	6940.0	W13804.5	Y43846.4	126	14.8	41.2
0359	Apr-27	1151	4122.1	6934.4	W13797.2	Y43807.1	141	16.1	41.2
0360	Apr-27	1339	4110.2	6933.2	W13840.9	Y43732.4	203	13.1	42.1
0361	Apr-27	1511	4107.1	6932.4	W13849.1	Y43712.1	215	14.5	42.4
0362	Apr-27	1733	4102.4	6922.9	W13818.1	Y43672.6	345	23.8	41.9
0363	Apr-27	1759	4104.5	6924.2	W13816.7	Y43687.2	177	22.1	

NOAA FISHERIES-NEFSC SPRING BOTTOM TRAWL SURVEY
 ALBATROSS IV MAR 07 - APR 28, 2007
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

STATION	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILEX	TOTAL* OTHER	TOTAL ALL
1	0	0	0	0	5	0	7	906	0	0	0	3	0	0	0	0	0	0	0	0	0	3	6	1	7	938
2	0	0	0	0	0	0	0	82	0	4	0	0	0	0	2	0	0	0	0	0	1	0	84	0	2	175
3	0	0	0	0	1	0	0	212	0	0	0	0	0	0	0	0	0	0	0	0	0	2	91	1	3	310
4	0	0	0	0	0	0	1	78	0	0	0	0	0	0	0	0	0	0	0	0	1	0	75	1	7	163
5	0	0	0	0	0	0	0	76	0	0	0	0	0	0	0	0	0	0	0	0	1	0	314	6	3	400
6	0	0	0	0	3	0	3	651	0	3	0	0	0	3	0	0	0	0	0	0	1	0	90	2	18	770
7	0	0	0	0	2	0	0	452	0	4	0	0	0	4	0	0	25	0	0	5	1	0	1	0	267	757
8	0	0	0	0	4	0	8	162	0	0	0	0	0	0	0	0	0	0	0	0	4	0	22	0	16	216
9	0	0	0	5	1	0	40	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	13	177
10	0	0	0	0	2	0	0	576	0	0	0	0	0	0	0	1	0	0	0	0	22	0	114	1	17	733
11	0	0	0	0	0	0	9	378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	1	20	422
12	0	0	0	0	3	0	3	1644	0	14	0	0	0	14	0	0	0	0	0	0	0	0	57	3	43	1767
13	0	0	0	0	1	0	8	1502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	6	1521
14	0	0	0	0	0	0	0	1853	0	8	0	0	0	8	0	5	9	6	0	0	0	0	17	0	33	1964
15	0	0	0	0	0	0	0	1764	0	2	0	0	0	2	0	1	0	0	0	0	0	0	30	0	13	1846
16	0	0	0	0	0	0	0	3713	0	1	0	0	0	1	0	0	2	192	0	0	0	0	46	0	2	3956
17	0	0	0	0	0	0	0	280	0	0	0	0	0	0	0	0	13	47	0	1	4	0	27	0	0	372
18	0	0	0	0	0	0	0	618	0	2	0	0	0	2	0	0	4	0	0	0	0	0	13	0	14	651
19	0	0	0	0	1	0	0	0	0	5	0	0	0	5	0	7	0	0	0	0	0	0	2	0	55	70
20	0	0	0	0	0	0	0	183	0	6	0	0	0	6	0	0	0	0	0	0	0	0	22	1	25	237
21	0	0	0	6	1	0	10	384	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	10	414
22	0	0	0	0	0	0	0	399	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	10	412
23	0	0	0	0	1	0	0	545	0	0	0	0	0	0	0	0	0	0	0	0	4	0	202	0	16	768
24	0	0	0	0	0	0	14	389	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	14	425
25	0	0	0	0	0	0	0	2668	0	15	0	0	0	15	0	0	0	10	0	0	3	0	4	0	17	2717
26	0	0	0	0	0	0	0	295	0	3	0	0	0	3	0	0	130	1	0	0	0	0	0	0	12	441
27	0	0	0	0	0	0	0	1271	0	13	0	0	0	13	15	1	0	0	0	0	1	0	95	0	26	1422
28	0	0	0	0	0	0	0	843	0	0	0	0	0	0	0	1	0	0	0	0	1	0	254	1	1100	2160
29	0	0	0	6	0	0	5	2087	0	39	0	0	0	39	0	0	0	0	0	0	0	4	122	22	70	2160
30	0	0	0	0	0	0	0	1903	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	29	321
31	0	0	0	0	0	0	0	288	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	18	943
32	0	0	0	0	0	0	0	919	0	2	0	0	0	2	0	0	0	0	0	0	0	0	4	0	34	1506
33	0	0	0	0	0	0	0	1457	0	5	0	0	0	5	0	0	0	0	0	0	0	0	10	0	70	140
34	0	0	0	0	0	0	29	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	6723	8782
35	0	0	0	0	0	0	0	1842	0	7	0	0	0	7	0	0	0	0	0	0	0	0	216	1	32	187
36	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	0	1082	1366
37	0	0	0	0	0	0	0	222	0	0	0	0	0	0	0	0	13	0	0	0	0	0	49	0	0	0

NOAA FISHERIES-NEFSC SPRING BOTTOM TRAWL SURVEY
 ALBATROSS IV MAR 07 - APR 28, 2007
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	IILEX	TOTAL* OTHER	TOTAL ALL
76	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	12	10	0	0	0	0	2	28
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	13	4	0	0	0	0	149	168
78	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	4	9
79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	7	13	0	0	0	0	60	85
80	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	1	25
81	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	6	24
82	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	3	11
83	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	15	14	0	0	0	0	69	101
84	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	19	9	0	0	0	0	3	33
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	1	12
86	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	2	29	0	0	0	0	1	37
87	0	0	0	0	0	0	0	161	0	0	0	0	0	0	0	0	4	0	0	43	0	0	0	0	4	212
88	0	0	0	0	0	0	0	873	0	0	0	0	0	0	0	0	16	1	0	36	0	0	0	0	11	937
89	0	0	0	0	0	0	0	801	0	0	0	0	0	0	0	0	29	1	0	29	0	0	0	0	10	871
90	0	0	0	0	0	0	0	4	0	0	0	0	0	2	0	0	6	0	0	0	0	0	0	0	2	14
91	0	0	0	0	0	0	0	65	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	7	74
92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	10	17
93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	87	108
94	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	2	0	0	0	0	68	72
95	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	7	3	0	0	0	0	8	19
96	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	12	145	0	0	0	0	41	232
97	0	0	0	0	0	0	0	5	0	0	0	0	2	0	0	0	0	0	0	27	0	1	0	0	5	42
98	0	0	0	0	0	0	0	18	0	0	0	0	3	0	0	0	0	0	45	35	0	0	0	0	1	102
99	0	0	0	0	0	0	0	171	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	203
100	0	0	0	0	0	0	0	204	0	0	0	0	4	0	0	0	0	0	4	53	0	0	0	0	27	294
101	0	0	0	0	0	0	0	53	0	0	0	0	1	0	0	0	0	0	10	51	0	0	0	0	0	117
102	0	0	0	0	0	0	0	68	0	0	0	0	3	0	0	0	1	0	3	36	0	0	0	0	0	113
103	0	0	0	0	0	0	0	59	0	0	0	0	1	0	0	0	13	0	0	1	0	0	0	0	0	74
104	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	29	46	0	0	0	0	13	91
105	0	0	0	0	0	0	0	3	0	0	0	0	15	0	0	0	0	0	21	433	0	0	0	0	0	478
106	0	0	0	0	0	0	0	83	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	91
107	0	0	0	0	0	0	0	162	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	166
108	0	0	0	0	0	0	0	122	0	0	0	0	0	0	0	0	56	0	0	1	0	0	0	0	0	179
109	0	0	0	0	0	0	0	224	0	0	0	1	0	3	0	0	4	0	0	45	0	0	0	0	11	289
110	0	0	0	0	0	0	0	357	0	0	0	0	0	0	0	10	17	1	0	19	0	0	0	0	29	460
111	0	0	0	0	0	0	0	441	0	0	0	0	0	2	0	0	1	12	0	0	3	0	0	0	9	469
112	0	0	0	0	0	0	0	403	0	0	0	0	0	0	0	0	1	132	0	0	2	0	0	0	20	558
113	0	0	0	0	0	0	0	262	0	0	0	0	0	3	0	1	0	4	0	1	2	0	0	0	4	278

NOAA FISHERIES-NEFSC SPRING BOTTOM TRAWL SURVEY
 ALBATROSS IV MAR 07 - APR 28, 2007
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL* OTHER	TOTAL ALL	
114	0	0	0	0	6	0	0	287	0	0	0	1	0	0	0	0	0	0	0	0	0	7	28	0	15	344	
115	0	0	0	0	5	0	3	393	0	0	0	1	0	0	0	0	0	0	0	0	0	4	12	0	12	430	
116	0	0	0	0	7	0	0	13	0	0	0	0	0	20	1	10	0	4	0	0	0	0	20	0	10	175	
117	0	0	0	0	4	0	0	85	0	0	0	0	0	0	0	0	2	0	0	0	0	0	100	0	16	217	
118	0	0	0	0	9	0	0	56	0	0	0	0	0	9	7	8	2	0	0	0	0	13	0	14	9	127	
119	0	0	0	0	10	0	12	368	0	0	0	2	0	0	0	0	0	1	0	0	0	3	16	0	23	437	
120	0	0	0	0	9	0	0	35	0	0	0	0	0	0	79	20	22	0	0	0	0	79	0	11	14	269	
121	0	0	0	0	4	0	0	25	0	0	0	0	0	21	0	0	0	0	0	0	0	63	2	303	4	527	
122	0	0	0	0	10	0	4	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	13	108	
123	0	0	0	0	1	0	0	475	0	0	0	0	0	9	0	0	0	62	0	0	0	0	1	0	6	554	
124	0	0	0	0	0	0	0	588	0	0	0	0	0	0	0	0	2	38	0	0	0	0	0	0	2	630	
125	0	0	0	0	1	0	0	1100	0	0	0	0	0	6	0	0	3	0	0	0	0	2	0	0	5	1117	
126	0	0	0	0	0	0	0	144	1	0	0	0	0	0	0	0	1	49	0	0	0	0	0	0	0	195	
127	0	0	0	0	0	0	0	232	0	0	0	0	0	0	0	0	4	2	0	15	0	0	0	0	5	258	
128	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	1	0	7	0	0	0	0	2	49	
129	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	7	55	
130	0	0	0	0	1	0	0	236	3	0	0	1	0	4	0	0	2	10	0	30	0	5	0	0	26	318	
131	0	0	0	0	2	0	0	71	5	0	0	0	0	0	0	0	3	4	3	72	0	0	0	0	23	183	
132	0	0	0	0	0	0	0	81	0	0	0	0	0	0	0	0	1	6	0	1	0	0	0	0	4	93	
133	0	0	0	0	0	0	0	67	0	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	74	
134	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
135	0	0	0	0	0	0	0	10	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	13	
136	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	17	0	0	0	0	4	22	
137	0	0	0	0	0	0	0	4	0	0	0	0	1	0	0	0	3	0	1	0	0	0	0	0	3	12	
138	0	0	0	0	0	0	0	11	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	20	
139	0	0	0	0	0	0	0	20	0	7	0	0	0	0	0	0	0	0	5	0	0	0	0	0	10	42	
140	0	0	0	0	0	0	0	0	0	18	0	0	1	0	0	0	0	0	27	15	0	41	0	0	2	104	
141	0	0	0	0	0	0	0	0	0	9	0	0	2	0	0	0	0	0	1	20	0	4	0	0	2	38	
142	0	0	0	0	0	0	0	0	0	8	0	0	1	0	0	0	21	0	0	34	0	0	0	0	0	64	
143	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	23	0	0	0	0	0	27	
144	0	0	0	0	0	0	0	0	0	6	0	0	1	0	0	0	0	0	3	51	0	0	0	0	8	69	
145	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	47	0	0	0	0	0	1	54	
146	0	0	0	0	0	0	0	17	0	7	0	0	0	0	0	0	7	0	10	0	0	0	0	0	0	41	
147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	6	
149	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	74	0	0	13	0	0	0	0	0	99	
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	
151	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	78	0	0	0	0	4	93	

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CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	IILEX	TOTAL* OTHER	TOTAL ALL	
152	0	0	0	0	0	0	0	64	0	1	0	0	0	0	0	0	0	11	0	1	0	0	0	0	4	81	
153	0	0	0	0	0	0	0	67	2	0	0	0	0	0	0	0	1	6	0	10	0	0	0	0	2	88	
154	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
156	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6	72	0	31	0	2	113	
157	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	12	33	0	6	0	7	7	61	
158	0	0	0	0	0	0	0	0	0	7	0	0	1	0	0	0	0	0	0	16	0	0	0	0	31	31	
159	0	0	0	0	3	0	2	0	3	0	0	0	9	0	0	0	40	8	4	58	0	0	0	31	158		
160	0	0	0	0	9	0	2	34	0	0	0	0	15	0	1	7	20	0	2	0	3	2	0	128	223		
161	0	0	0	0	1	0	0	73	0	0	0	2	26	0	0	2	21	0	0	5	1	0	0	29	160		
162	0	0	0	0	0	0	0	11	4	0	0	0	0	0	0	0	0	0	9	3	0	0	0	10	75		
163	0	0	0	0	0	0	0	19	2	0	0	0	2	0	0	1	0	0	10	1	0	0	0	3	38		
164	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	2	3	0	0	0	13	22		
165	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	7	
166	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	0	0	0	6	7	0	0	0	0	0	17	
167	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	127	0	3	0	0	0	0	12	143		
168	0	0	0	0	1	0	0	4	7	3	0	0	0	1	0	0	80	0	4	13	0	1	0	7	121		
169	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	15	0	0	14	90	0	0	2	2	124		
170	0	0	0	0	0	0	0	0	0	22	0	0	28	3	0	0	0	0	77	511	0	0	0	1	642		
171	0	0	0	0	0	0	0	0	0	47	0	0	11	0	0	0	0	0	104	717	0	0	0	19	898		
172	0	0	0	0	0	0	0	0	1	11	0	0	1	0	0	0	0	0	15	130	0	0	0	0	158		
173	0	0	0	0	0	0	0	0	0	4	0	0	17	1	0	0	0	0	134	880	0	1	0	2	1039		
174	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	21	99	0	0	0	8	133		
175	0	0	0	0	3	0	0	197	1	0	0	0	7	0	0	0	2	5	0	8	1	0	0	44	268		
176	0	0	0	0	3	0	18	107	0	0	0	0	14	0	0	0	0	63	0	1	10	0	6	6	223		
177	0	0	0	0	30	0	0	34	0	0	0	0	43	0	11	1	21	0	0	0	9	0	19	19	180		
178	0	0	0	0	4	0	10	39	0	0	0	0	0	0	0	0	0	0	0	0	0	4	20	20	84		
179	0	0	0	0	10	0	11	10	0	0	0	0	17	0	0	5	34	0	0	0	8	0	12	12	107		
180	0	0	0	0	2	0	11	45	0	0	0	0	5	0	0	10	28	0	0	3	4	0	50	50	159		
181	0	0	0	0	13	0	11	0	0	0	0	0	0	5	0	0	0	2	10	0	0	0	1	35	76		
182	0	0	0	0	35	0	4	252	0	0	0	16	0	16	0	0	0	0	0	0	13	0	22	22	355		
183	0	0	0	0	7	0	19	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	42		
184	0	0	0	0	0	0	0	0	0	0	0	1	0	23	0	0	0	0	0	0	39	0	15	15	80		
185	0	0	0	0	12	0	20	8	0	0	0	0	106	0	0	0	0	0	27	0	12	0	68	68	257		
186	0	0	0	0	1	0	0	9	0	0	0	0	1	0	0	4	0	0	0	2	0	0	5	5	22		
187	0	0	0	0	4	0	0	5	1	0	0	0	0	0	0	11	0	0	6	3	0	0	15	15	45		
188	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3	1	0	0	11	11	17		
189	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2		

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 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	IILEX	TOTAL* OTHER	TOTAL ALL
190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
191	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	5
192	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	10	301	0	0	0	0	3	321
193	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	6	25	0	0	0	0	3	38
194	0	2	0	0	0	0	0	6	2	0	0	1	1	0	0	0	0	0	12	24	0	0	0	0	6	54
195	0	3	0	0	0	0	0	39	0	0	0	0	0	0	0	0	6	0	6	1	0	0	0	0	1	57
196	0	0	0	0	13	0	1	7	0	0	0	0	0	55	0	0	0	28	2	0	203	0	15	0	33	357
197	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	46	4	55	
198	0	0	0	0	9	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0	724	0	14	0	31	918
199	0	0	0	0	16	0	8	0	0	0	0	0	0	12	0	0	0	0	275	0	100	0	32	1	23	467
200	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	16	0	0	0	0	8	32
201	0	0	0	0	2	0	0	0	23	0	0	0	27	4	0	0	0	8	0	2	0	0	0	0	104	170
202	0	0	0	14	7	0	0	5	16	0	0	1	6	10	0	0	0	0	103	21	0	0	3	0	194	380
203	0	0	0	0	0	0	0	0	12	0	0	0	3	0	0	0	0	0	2	2	0	0	0	0	2	21
204	0	0	0	19	0	0	18	51	0	0	0	0	0	0	0	0	0	0	1561	0	0	6	0	0	3262	4917
205	0	0	0	0	0	0	0	18	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	9	30
206	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	20
207	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	3	9
208	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
210	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	5	0	0	0	0	5	16
211	0	0	0	0	0	0	0	0	0	4	1	0	1	0	0	0	0	0	19	130	0	0	0	0	12	167
212	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	8	0	0	0	0	1	11
213	12	1658	0	0	0	0	0	0	2	0	0	0	5	0	0	0	0	0	26	96	0	0	0	0	8	1807
214	6	1	0	0	0	0	0	0	7	0	0	0	3	0	0	0	0	0	6	11	0	0	0	0	50	84
215	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	12
216	0	0	0	0	15	0	6	0	0	0	0	0	0	0	0	0	1	0	5	0	6	0	52	82	167	
217	0	0	0	0	6	0	24	0	0	0	0	0	0	0	0	0	0	0	43	0	0	4	0	0	890	967
218	4	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	31	31
219	2	0	0	0	0	0	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	36
220	5	12	0	0	0	0	0	4	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	8	29
221	48	64	0	0	0	0	0	4	2	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	15	139
222	20	22	0	0	0	0	0	4	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	31	79
223	8	5	0	0	0	0	0	7	35	0	1	0	9	0	0	0	0	0	0	3	0	0	0	0	19	87
224	147	228	0	0	0	0	0	0	7	2	1	0	0	0	0	0	0	0	109	17	0	0	0	0	64	575
225	76	452	0	0	0	0	0	0	42	3	1	0	2	0	0	0	0	0	55	32	0	0	0	0	7	670
226	13	300	0	0	0	0	0	0	2	0	3	0	2	0	0	0	0	0	25	6	0	0	0	0	3	354
227	21	0	0	0	0	0	0	0	1	12	2	0	3	0	0	0	0	0	21	18	0	1	0	0	5	84

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CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	IILEX	TOTAL* OTHER	TOTAL ALL
266	0	2	0	0	0	0	0	12	3	7	0	0	1	0	0	0	4	12	0	0	0	0	0	0	11	52
267	0	12	0	0	0	0	0	3	4	3	0	1	1	0	0	0	1	61	0	1	0	0	0	0	6	92
268	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	8
269	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	60	0	0	0	0	68	132
270	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13	0	0	14	0	2	2	34
271	0	2	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	3	1	26	0	2	0	4	4	45
272	0	1	0	0	0	0	0	4	5	0	1	0	2	0	0	0	0	12	11	41	0	0	0	5	84	
273	3	15	0	0	0	0	0	12	8	4	0	1	1	0	0	0	0	1	13	87	0	0	0	7	151	
274	32	40	3	0	1	0	0	3	0	0	1	1	0	0	0	0	0	1	1	5	0	0	0	19	107	
275	0	0	0	0	10	0	0	30	0	0	10	1	0	0	0	0	0	2	0	0	1	6	0	62	122	
276	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1030	0	0	0	0	0	14	1049	
277	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	6	
278	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
279	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	18	22	
280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	8	14	
281	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	8	24	0	0	0	12	46	
282	7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	0	1	0	51	79	
283	0	5	0	4	1	0	0	236	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	30	312	
284	0	7	0	1	19	0	0	18	0	0	2	1	0	0	0	0	0	0	3	0	0	0	0	46	97	
285	13	0	0	1	36	0	0	29	0	0	3	0	0	0	0	0	0	9	0	0	0	0	0	24	115	
286	5	0	0	0	17	516	0	3	0	0	2	1	0	0	0	0	1	2	0	0	0	0	0	23	570	
287	0	4	4	0	2	683	0	10	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	24	728	
288	0	0	0	4	3	298	0	21	0	0	1	2	0	0	0	0	0	0	0	0	0	3	0	10	342	
289	6	0	6	8	5	0	0	48	0	0	7	0	0	0	0	0	0	1	0	0	0	0	0	11	92	
290	0	0	0	1	3	6	0	7	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	4	27	
291	0	0	8	5	4	9	13	3	0	0	0	3	0	0	0	0	0	0	0	0	0	16	0	13	74	
292	0	2	52	9	2	731	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	6	805	
293	0	0	46	0	13	1086	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	6	1154	
294	0	0	48	3	24	29	2	0	0	0	5	4	0	0	0	0	0	0	0	0	0	2	0	16	133	
295	0	0	12	17	2	2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	7	51	
296	0	0	1	10	4	324	0	34	0	0	1	3	0	0	0	0	0	0	0	0	0	13	0	8	398	
297	0	0	8	4	4	6	0	5	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	5	34	
298	0	27	0	0	0	0	0	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	8	77	
299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	7	54	
300	0	6	0	0	0	0	0	0	1	13	2	0	0	0	0	0	3	0	0	0	0	7	0	21	53	
301	0	8	0	0	0	0	0	0	0	7	1	0	0	0	0	0	3	4	0	0	0	2	0	29	54	
302	1	13	0	0	0	0	0	0	0	26	2	0	0	0	0	0	1	0	0	2	0	17	0	36	98	
303	7	3	0	1	1	19	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	0	9	45	

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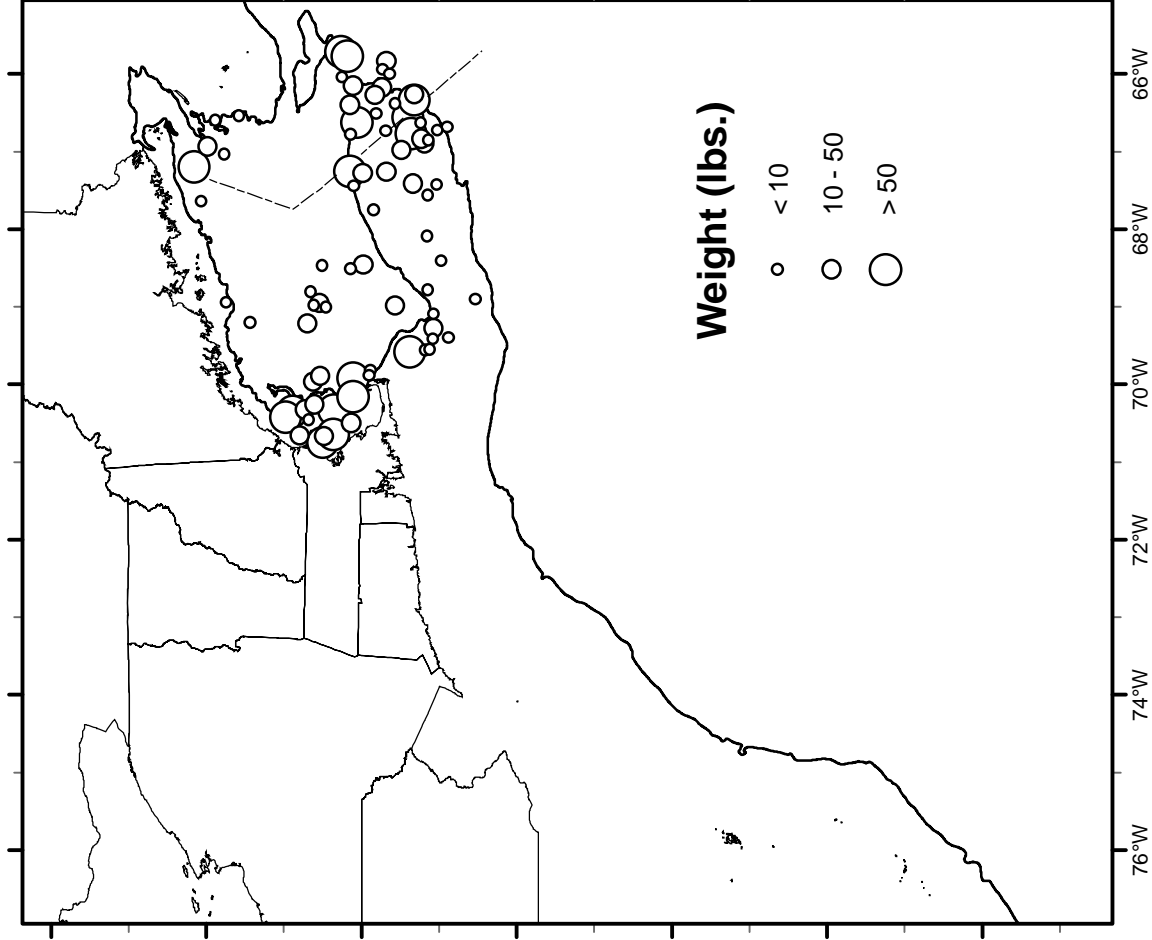
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	IILEX	TOTAL* OTHER	TOTAL ALL	
304	22	3	0	1	1	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	52	
305	3	23	0	0	0	0	0	0	1	45	0	0	0	0	0	0	1	0	2	1	0	0	3	0	0	27	106
306	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	12	0	0	6	25	
307	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	32	37	
308	89	0	0	4	11	0	0	0	0	0	2	3	0	0	0	0	2	0	0	0	0	17	0	0	11	139	
309	0	0	0	1	1	0	0	0	0	1	0	3	0	0	0	0	4	0	0	0	0	0	0	0	17	27	
310	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	4	0	0	0	0	0	0	0	12	20	
311	7	0	0	6	8	83	1	0	0	0	0	3	0	0	0	0	1	1	0	0	0	6	0	0	11	127	
312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
313	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	7	0	0	0	0	19	0	0	15	44	
314	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	33	0	0	31	69	
315	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	21	56	
316	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	0	0	36	44	
317	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	30	0	0	8	40	
318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
319	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	1	0	0	0	0	3	0	0	58	68	
320	0	0	0	0	0	0	0	7	0	9	0	0	2	0	0	0	0	0	0	27	0	4	0	0	13	62	
321	0	0	0	0	2	0	0	0	0	5	0	0	1	0	0	0	0	0	0	56	0	3	0	0	15	82	
322	0	0	0	0	11	0	0	0	1	5	0	0	2	0	0	0	0	0	0	24	0	15	0	0	18	76	
323	0	0	0	0	9	0	0	0	0	1	0	0	2	0	0	0	0	0	0	20	0	27	0	0	42	101	
324	39	5	0	0	5	0	0	0	8	7	31	0	0	0	0	0	0	0	34	0	0	3	0	0	22	154	
325	0	3	0	0	3	0	0	0	18	2	6	0	0	0	0	0	2	0	0	0	0	1	0	0	135	170	
326	0	0	0	0	0	0	0	6	4	1	20	0	0	0	0	0	0	0	2	2	0	3	0	0	58	94	
327	1839	3	0	0	0	0	0	6	3	17	1	0	1	0	0	0	0	0	9	2	0	0	0	0	521	2402	
328	193	45	0	0	2	0	0	0	3	5	63	0	0	0	0	0	0	0	0	0	0	5	0	0	19	335	
329	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	8	0	0	4	18	
330	320	546	0	1	3	0	0	0	92	36	62	0	0	0	0	0	0	0	0	0	0	23	0	0	58	1141	
331	42	11	0	2	1	0	0	0	6	2	50	1	0	0	0	0	0	0	0	0	0	8	0	0	7	130	
332	24	14	24	0	1	2	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	9	78	
333	25	38	0	0	0	0	0	0	65	0	7	0	0	0	0	0	2	0	4	0	0	5	0	0	19	165	
334	8	2	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	3	20	
335	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	1	0	0	20	0	1	0	0	6	33	
336	11	11	0	0	5	0	0	0	3	1	21	0	0	0	0	0	0	0	1	3	0	4	0	0	51	111	
337	91	0	0	3	1	234	0	0	2	0	13	7	0	0	0	0	0	0	1	0	0	21	0	0	63	436	
338	64	20	0	0	8	6	0	0	27	0	37	1	0	0	0	0	0	0	0	0	0	2	0	0	94	259	
339	0	4	0	0	2	761	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5	0	0	82	859	
340	0	0	0	4	5	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	53	68	
341	0	0	0	0	3	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	1	0	0	100	110	

NOAA FISHERIES-NEFSC SPRING BOTTOM TRAWL SURVEY
 ALBATROSS IV MAR 07 - APR 28, 2007
 CATCH WEIGHTS (POUNDS) OF IMPORTANT SPECIES BY HAUL

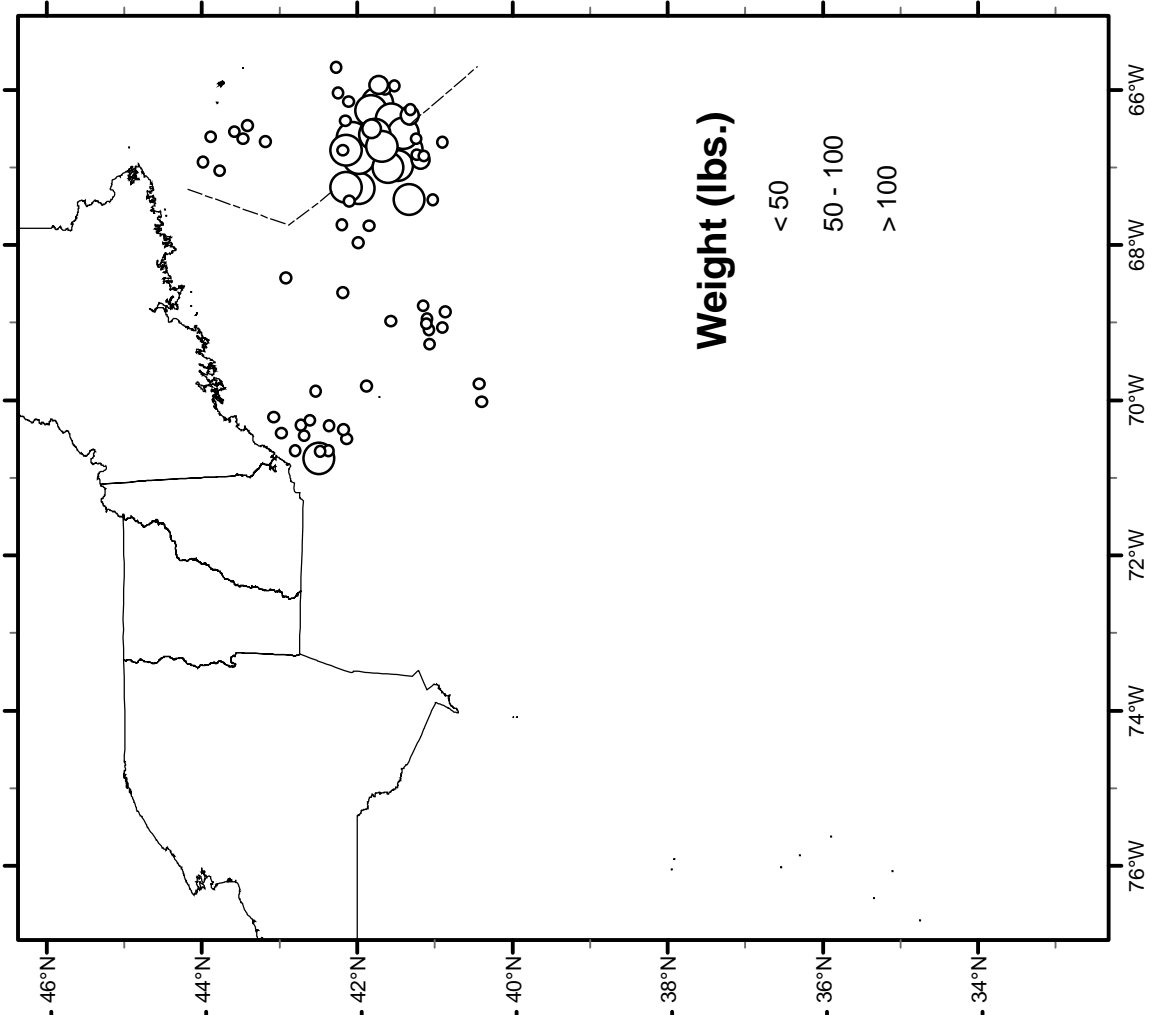
	ATLANTIC COD	HADDOCK	POLLOCK	WHITE HAKE	SILVER HAKE	REDFISH	GOOSEFISH	SPINY DOGFISH	YELLOWTAIL FLOUNDER	WINTER FLOUNDER	AMERICAN PLAICE	WITCH FLOUNDER	WINDOWPANE FLDR	SUMMER FLOUNDER	SCUP	BLACK SEA BASS	ATLANTIC HERRING	ATLANTIC MACKEREL	WINTER SKATE	LITTLE SKATE	BUTTERFISH	AMERICAN LOBSTER	LOLIGO	ILLEX	TOTAL* OTHER	TOTAL ALL	
342	5	0	0	0	3	0	0	0	0	0	8	2	0	0	0	0	1	0	0	0	0	2	0	0	34	55	
343	0	0	0	0	10	0	0	28	0	0	0	2	0	0	0	0	0	8	0	0	0	9	0	0	14	71	
344	0	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	11	19	
345	25	0	0	0	40	34	25	98	0	0	17	5	0	0	0	0	0	0	0	0	0	2	0	0	47	293	
346	4	0	44	4	1	10	63	106	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	26	263	
347	3	0	17	0	6	1	0	7	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	14	56	
348	23	0	186	3	1	10	25	257	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	13	527	
349	2	0	269	16	5	0	3	93	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	402	
350	0	0	14	33	3	6	0	80	0	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	12	158	
351	0	0	28	62	14	1	0	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	210	
352	0	0	45	127	13	2	9	52	0	0	5	0	0	0	0	0	0	0	0	0	0	3	0	0	3	259	
353	40	0	7	0	4	160	1	23	0	0	20	4	0	0	0	0	0	0	0	0	0	16	0	0	73	348	
354	13	3	105	6	3	15	2	48	0	0	24	6	0	0	0	0	0	0	0	0	0	16	0	0	41	282	
355	147	0	0	1	1	2	0	0	0	0	8	1	0	0	0	0	0	0	0	0	0	8	0	0	21	189	
356	85	0	0	0	9	0	0	49	2	6	0	0	0	0	0	0	12	0	19	1	0	13	0	0	133	329	
357	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	0	6	2	0	1	0	4	0	0	404	426	
358	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	13	17	
359	53	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	2	0	0	9	72	
360	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	3	27	
361	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	2	0	0	0	0	0	0	13	32	
362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
363	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	2	0	2	0	0	67	79	
TOTAL	4661	8850	1313	565	680	5174	498	49889	1043	674	569	108	245	773	136	77	1225	2027	3918	5909	1519	952	2841	57	22598	116301	

* "Total other" in southern areas are comprised primarily of rays, large sharks and spotted hake.

ATLANTIC COD
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



HADDOCK
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007

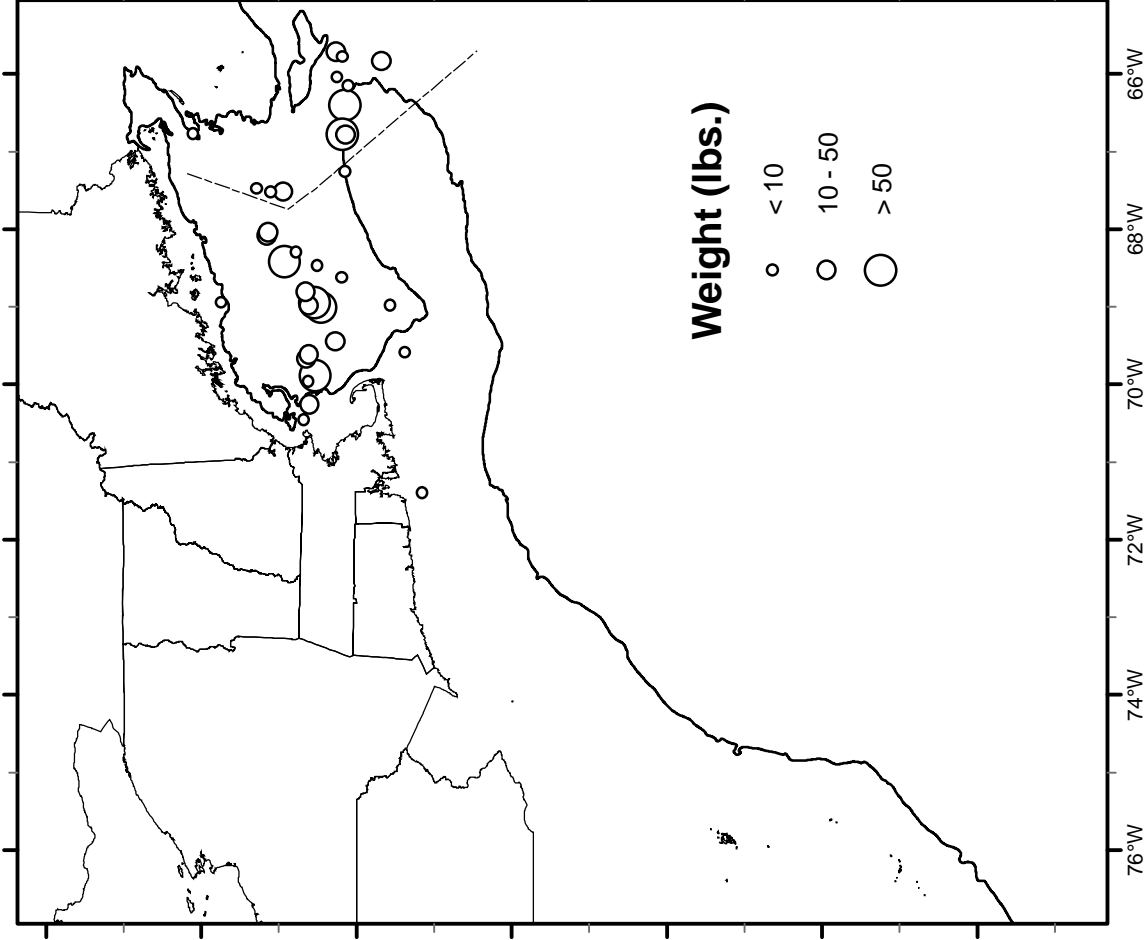


POLLOCK

NOAA Fisheries Service

Bottom Trawl Survey

7 March - 28 April 2007

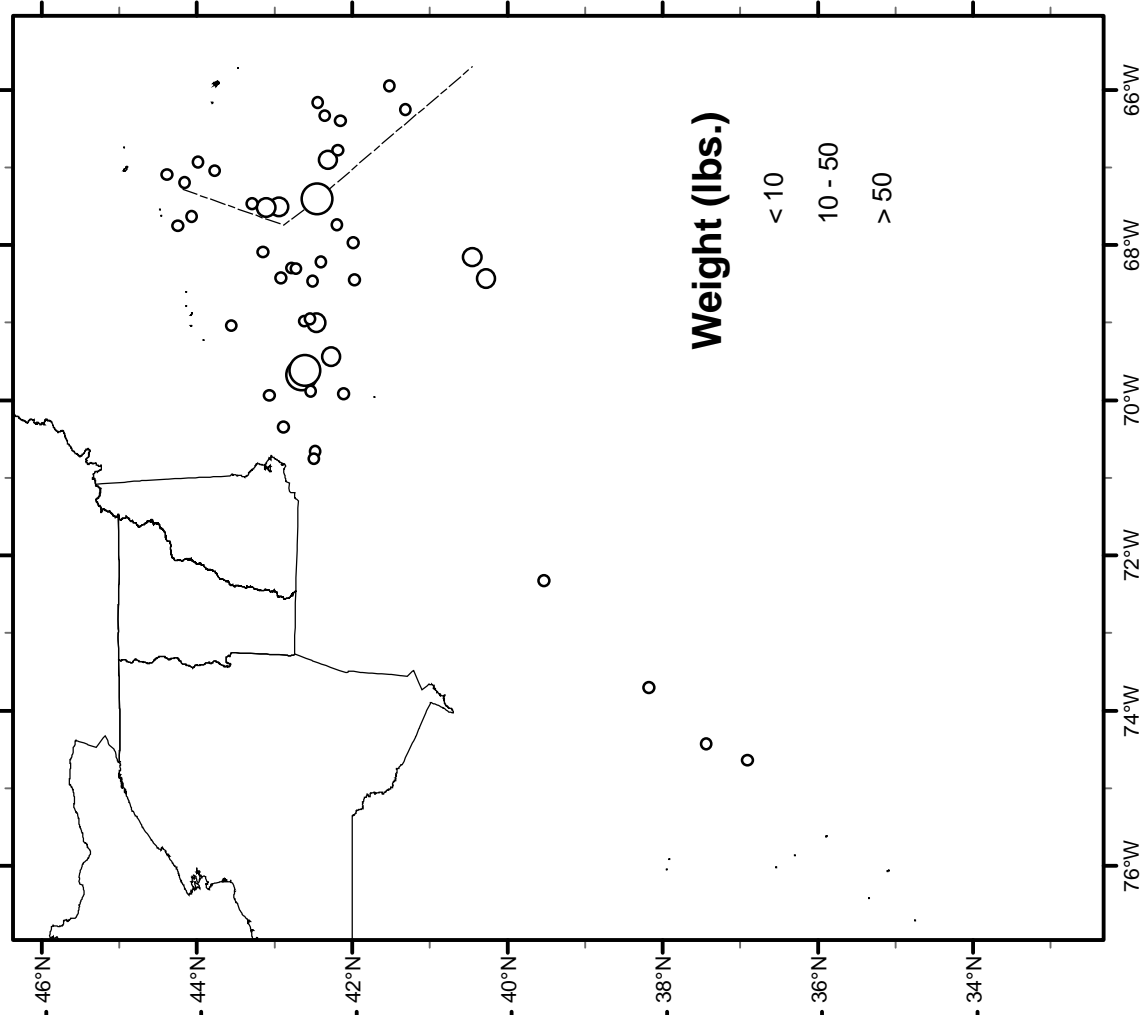


WHITE HAKE

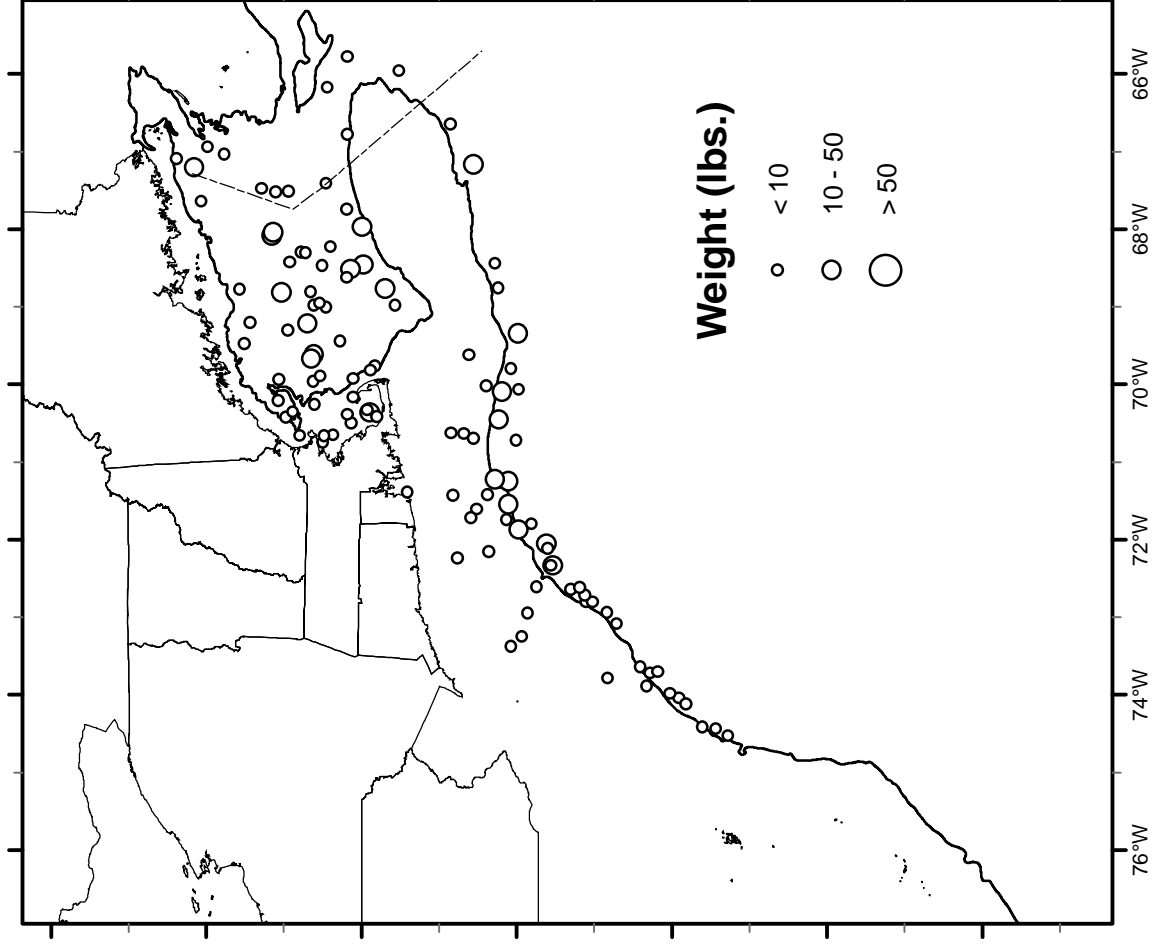
NOAA Fisheries Service

Bottom Trawl Survey

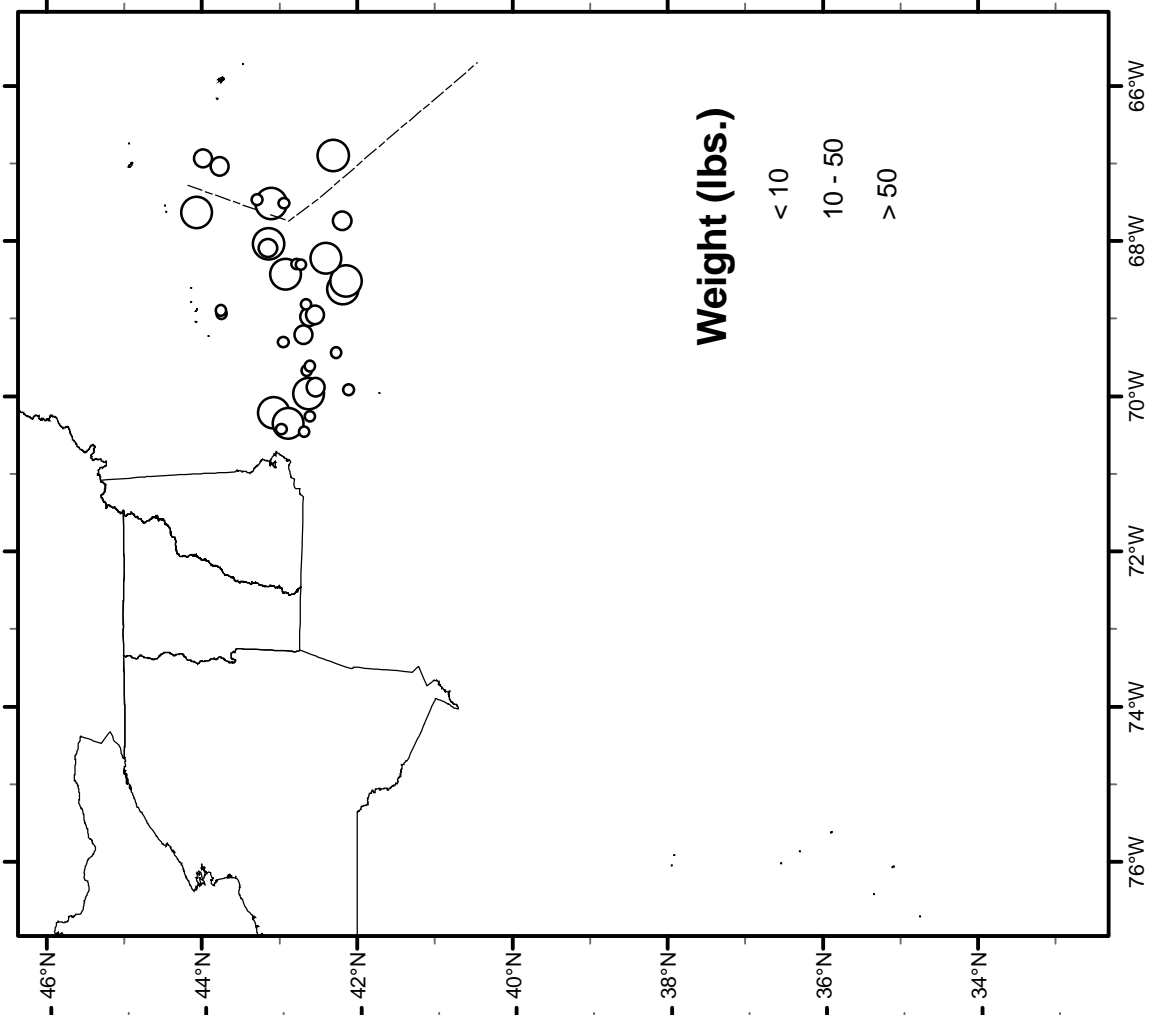
7 March - 28 April 2007



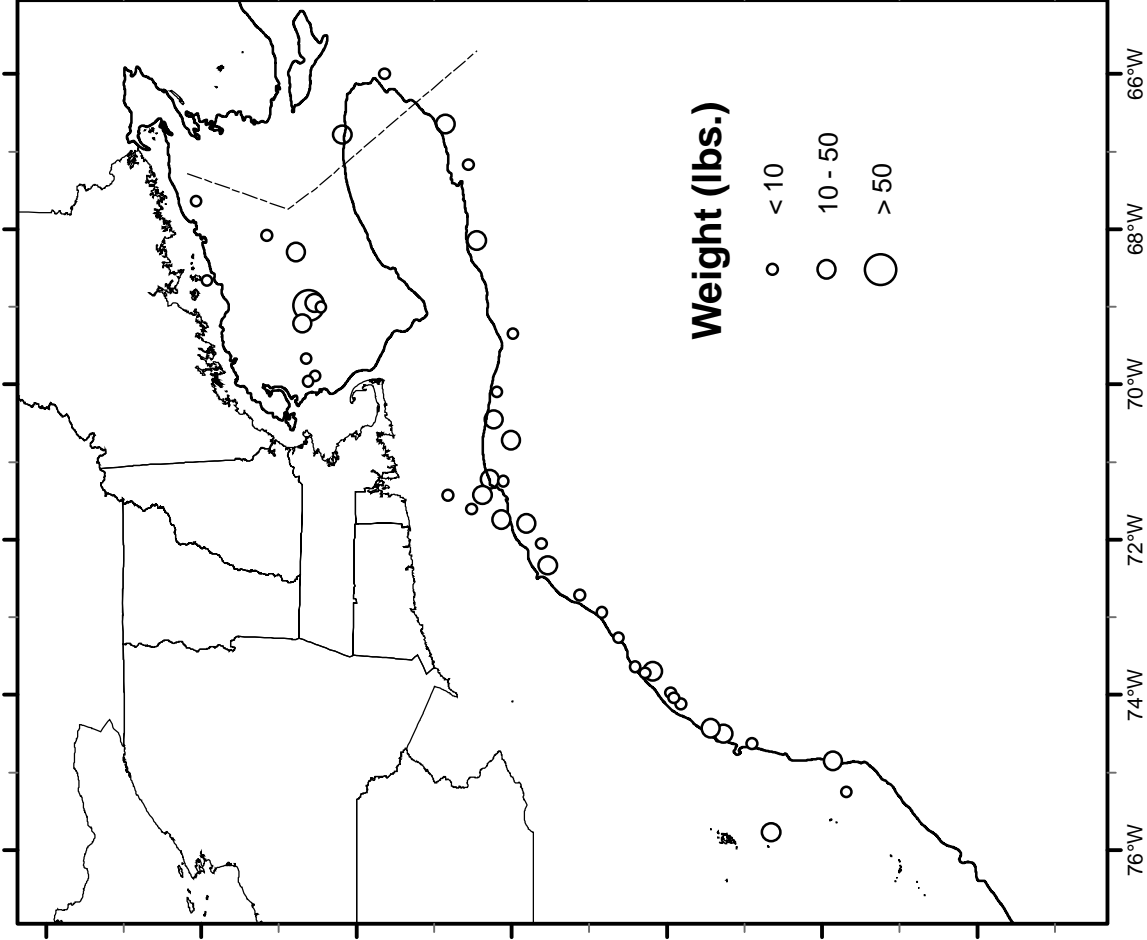
SILVER HAKE
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



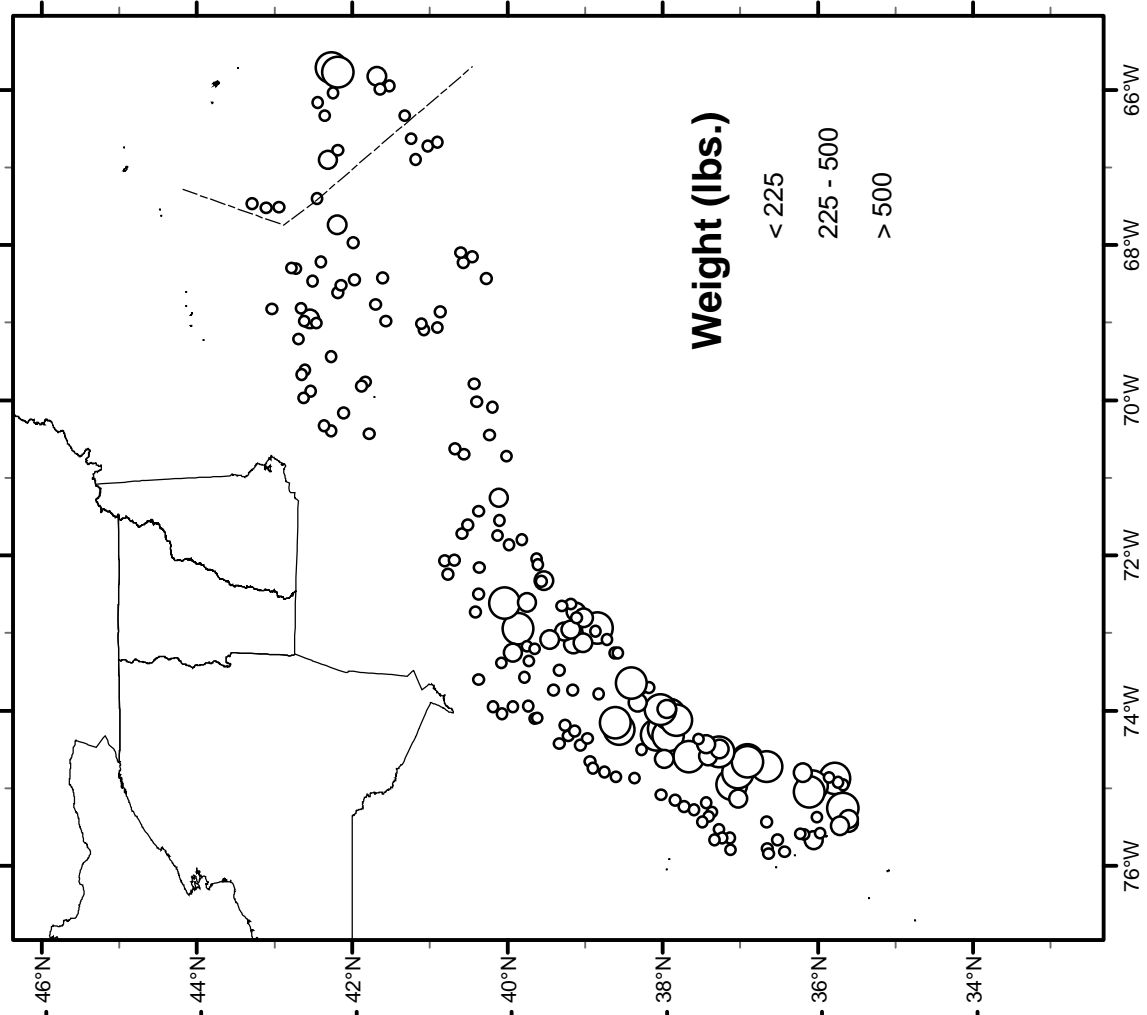
ACADIAN REDFISH
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



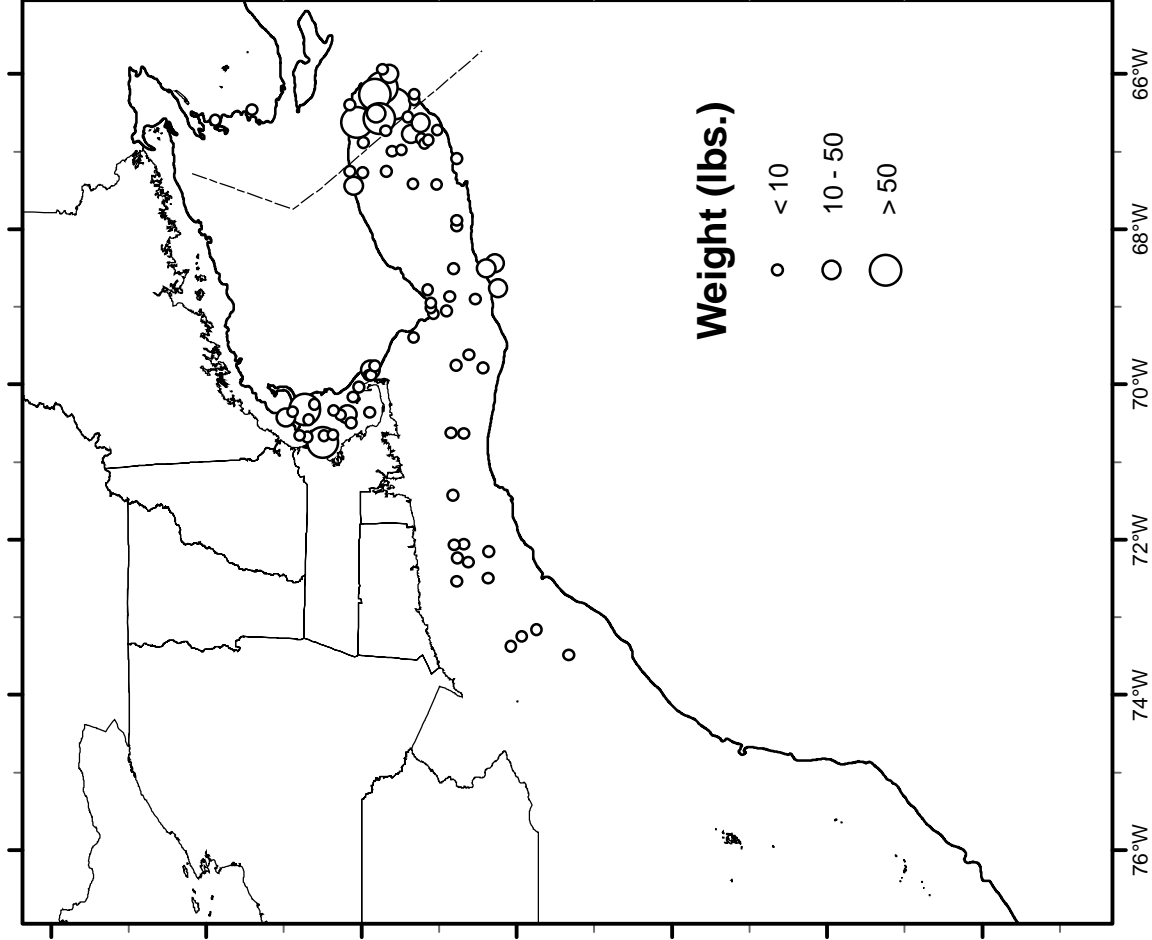
GOOSEFISH
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



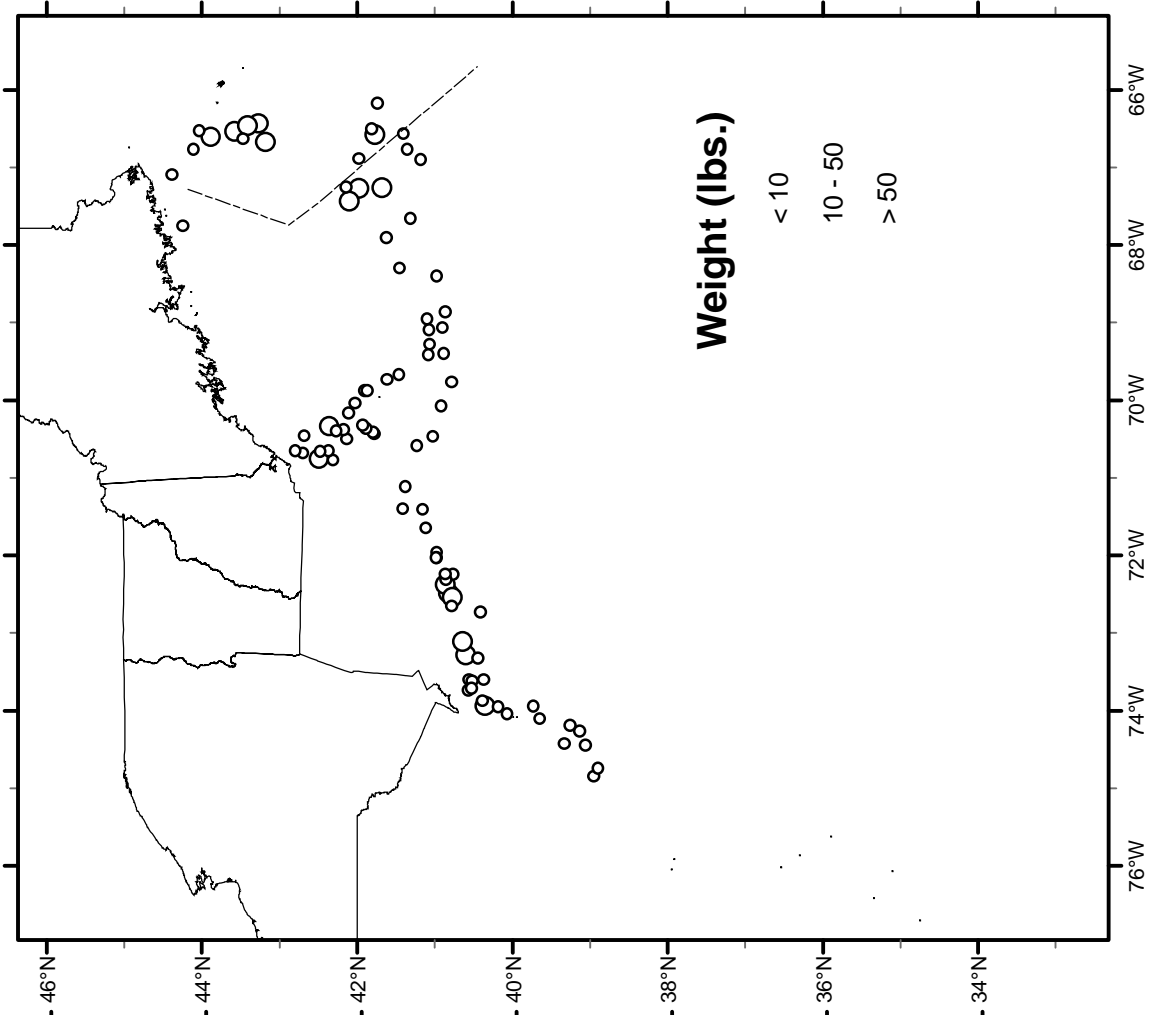
SPINY DOGFISH
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



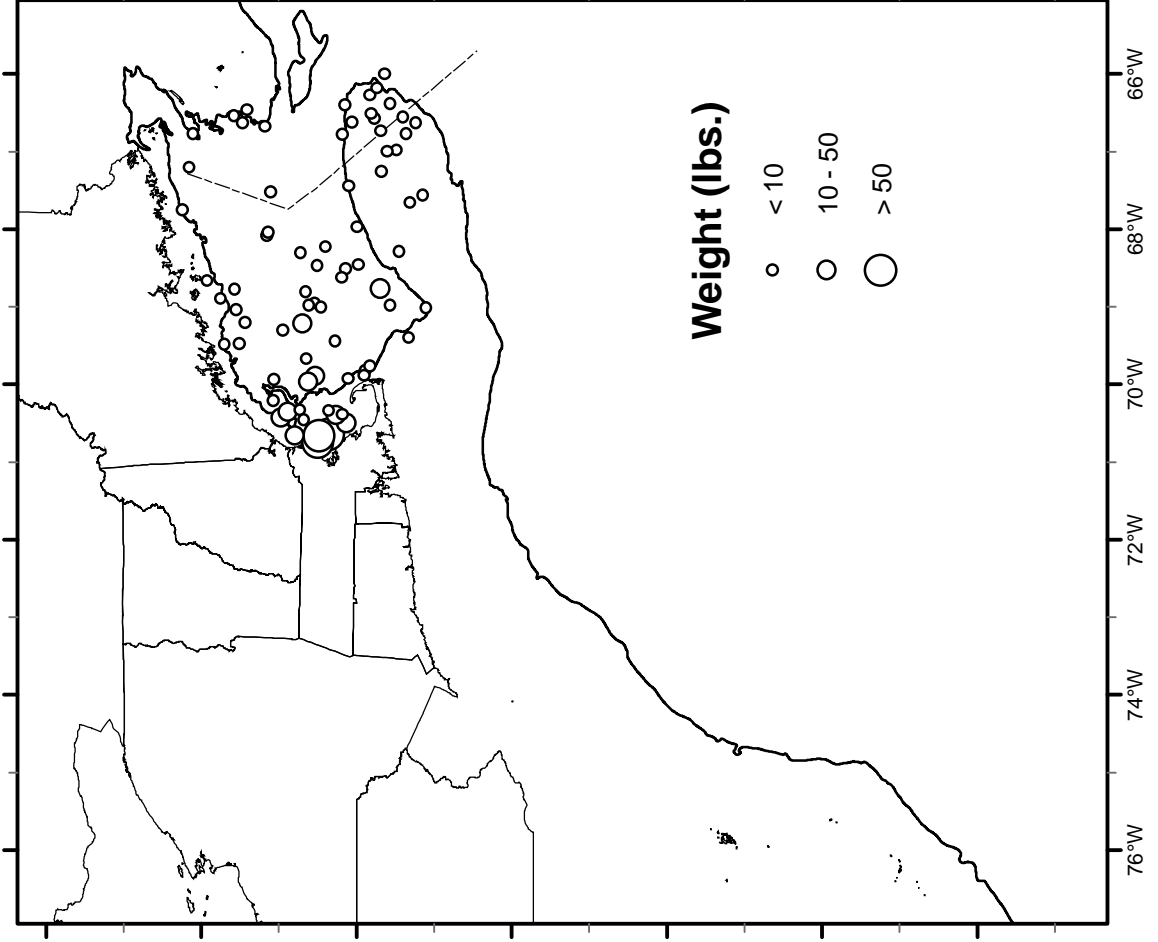
YELLOWTAIL FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



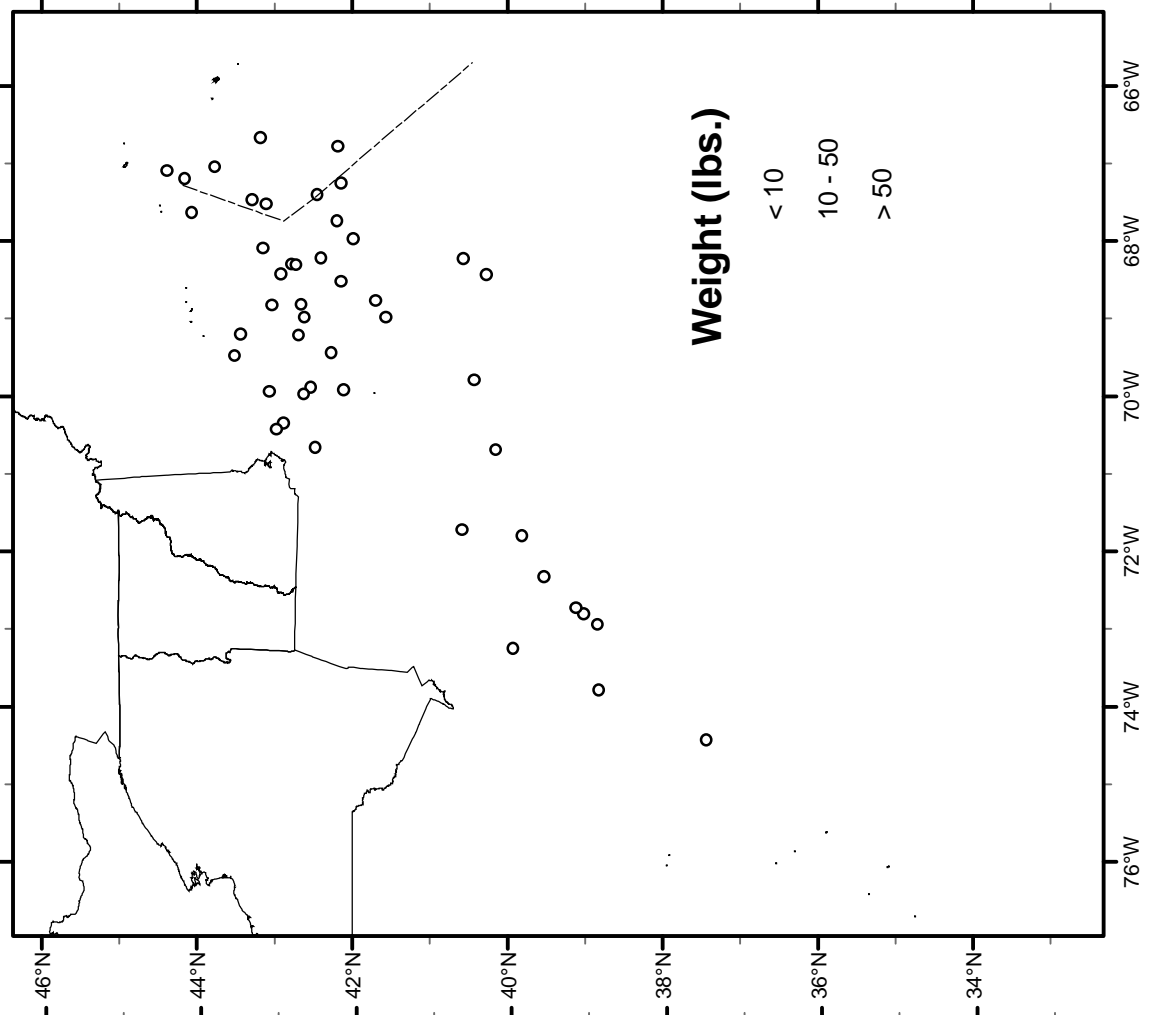
WINTER FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



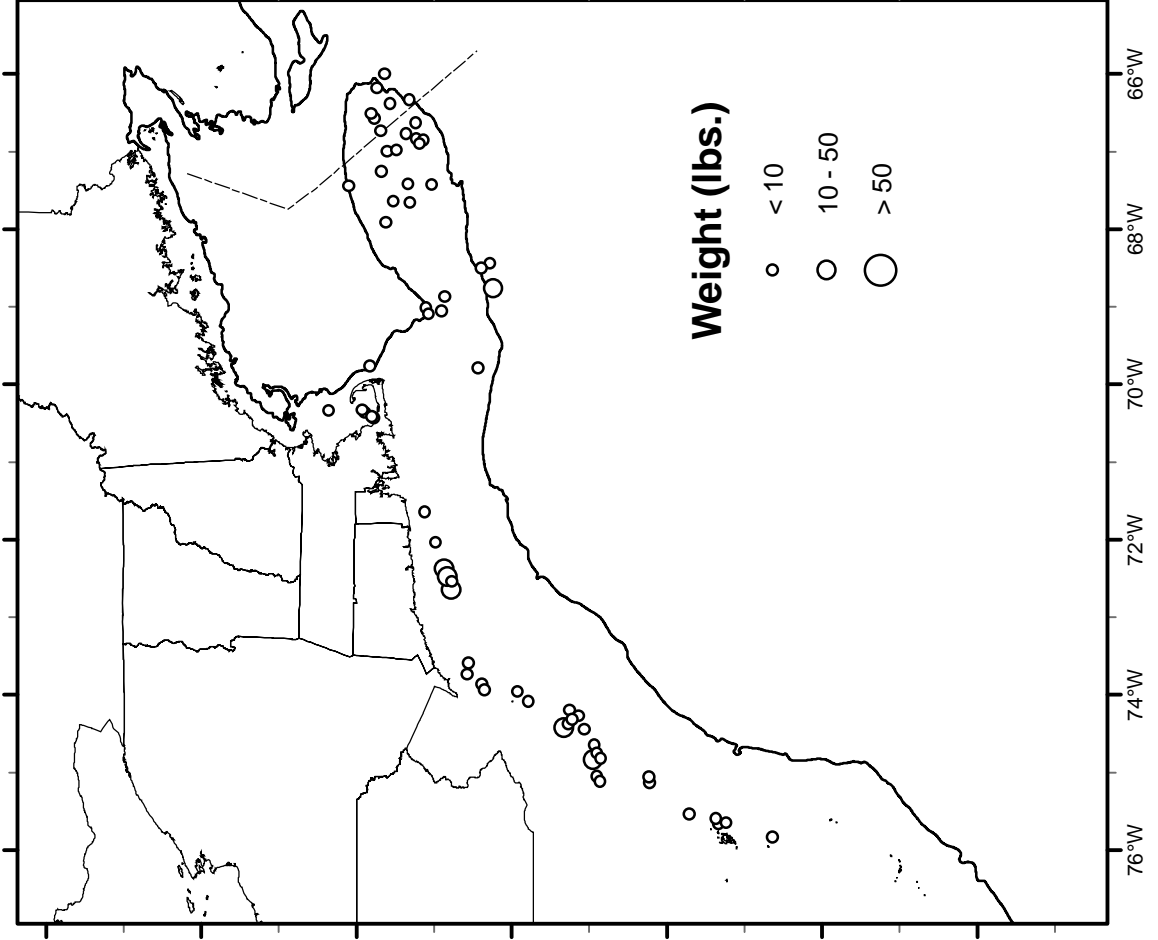
AMERICAN PLAICE
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



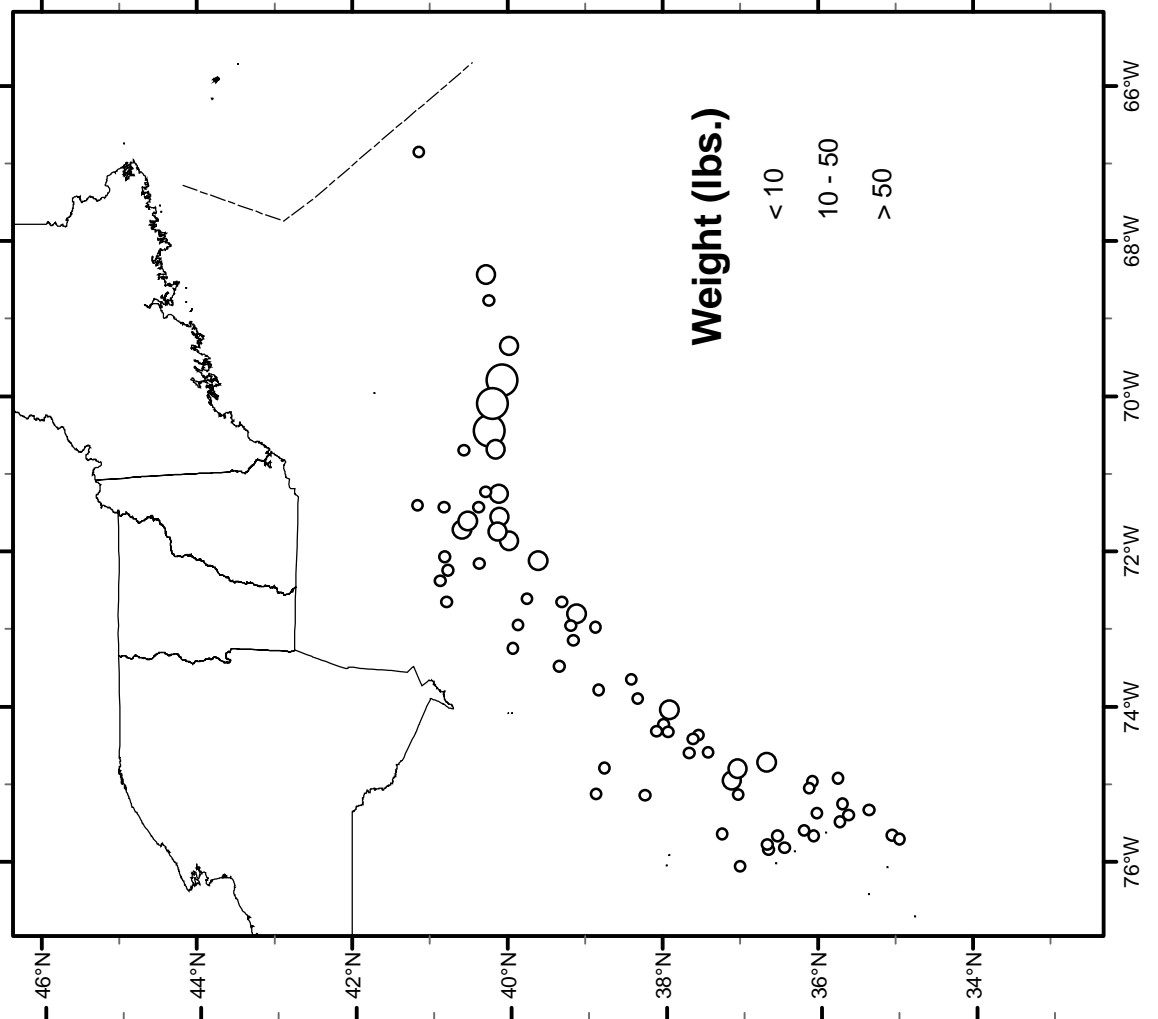
WITCH FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



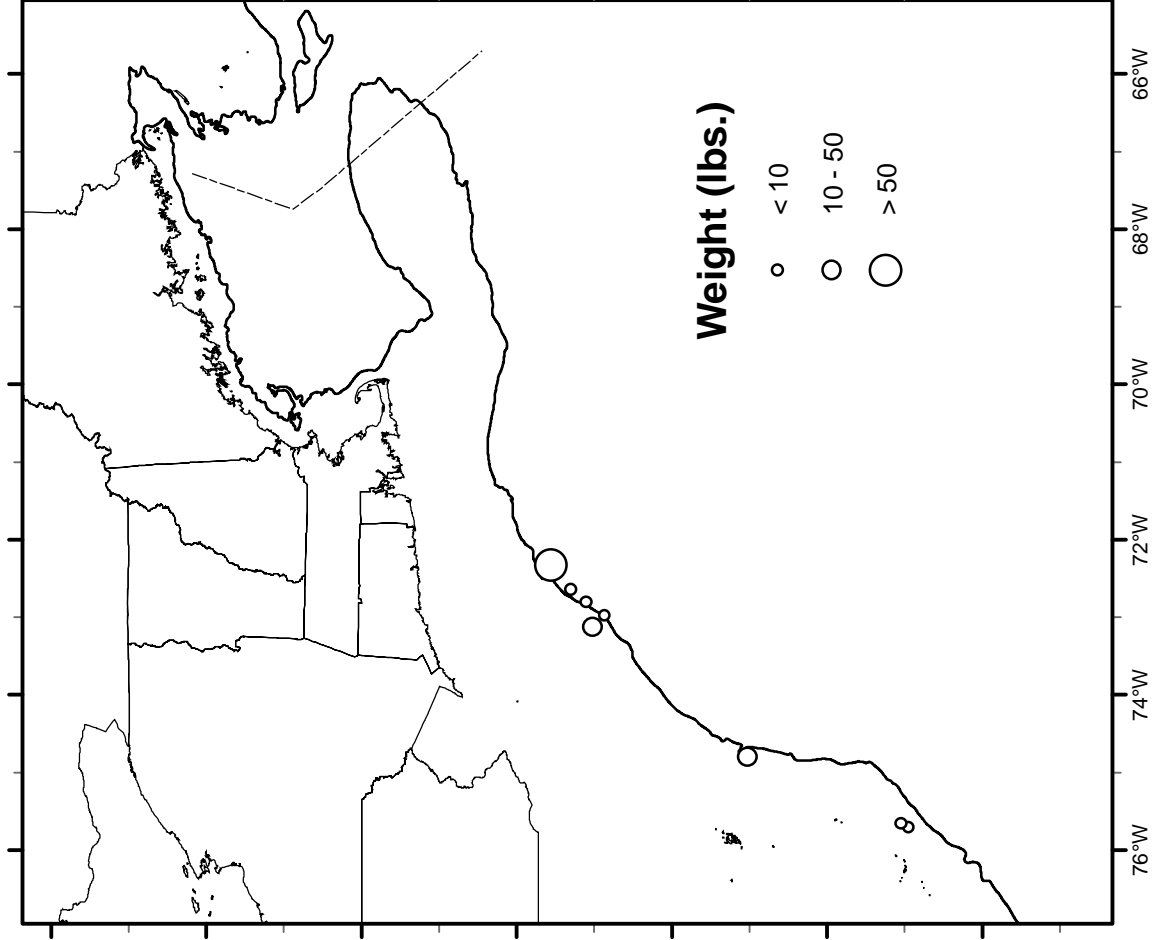
WINDOWPANE
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



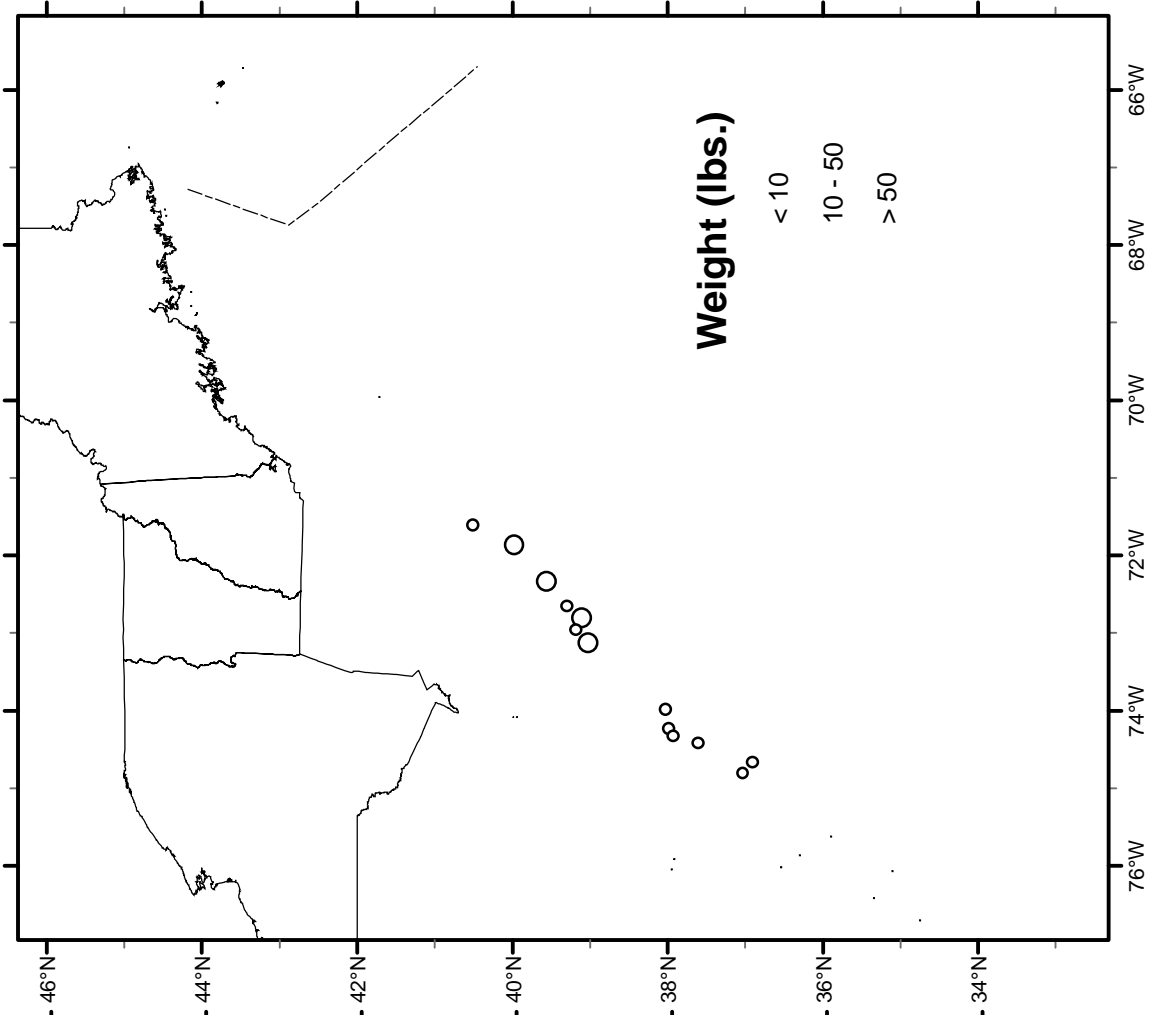
SUMMER FLOUNDER
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



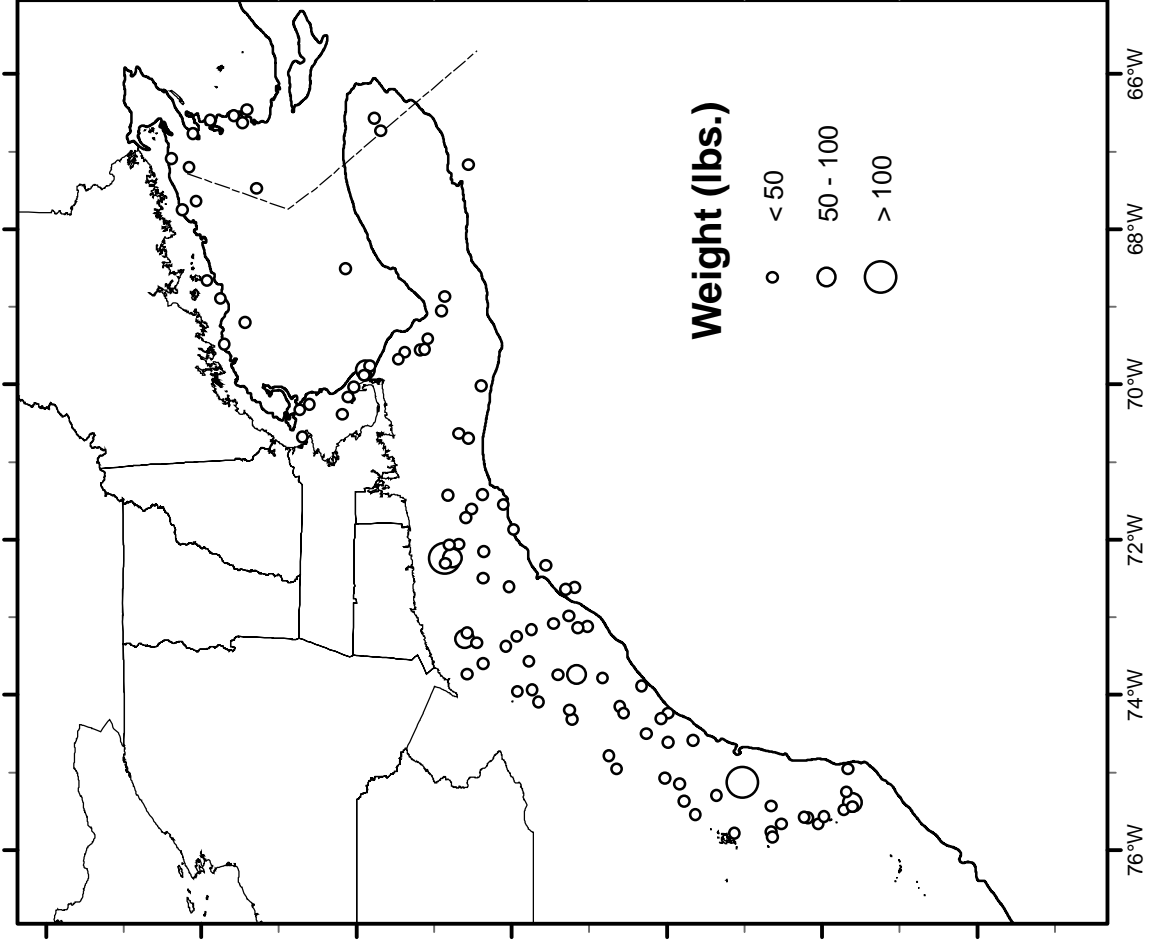
SCUP
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



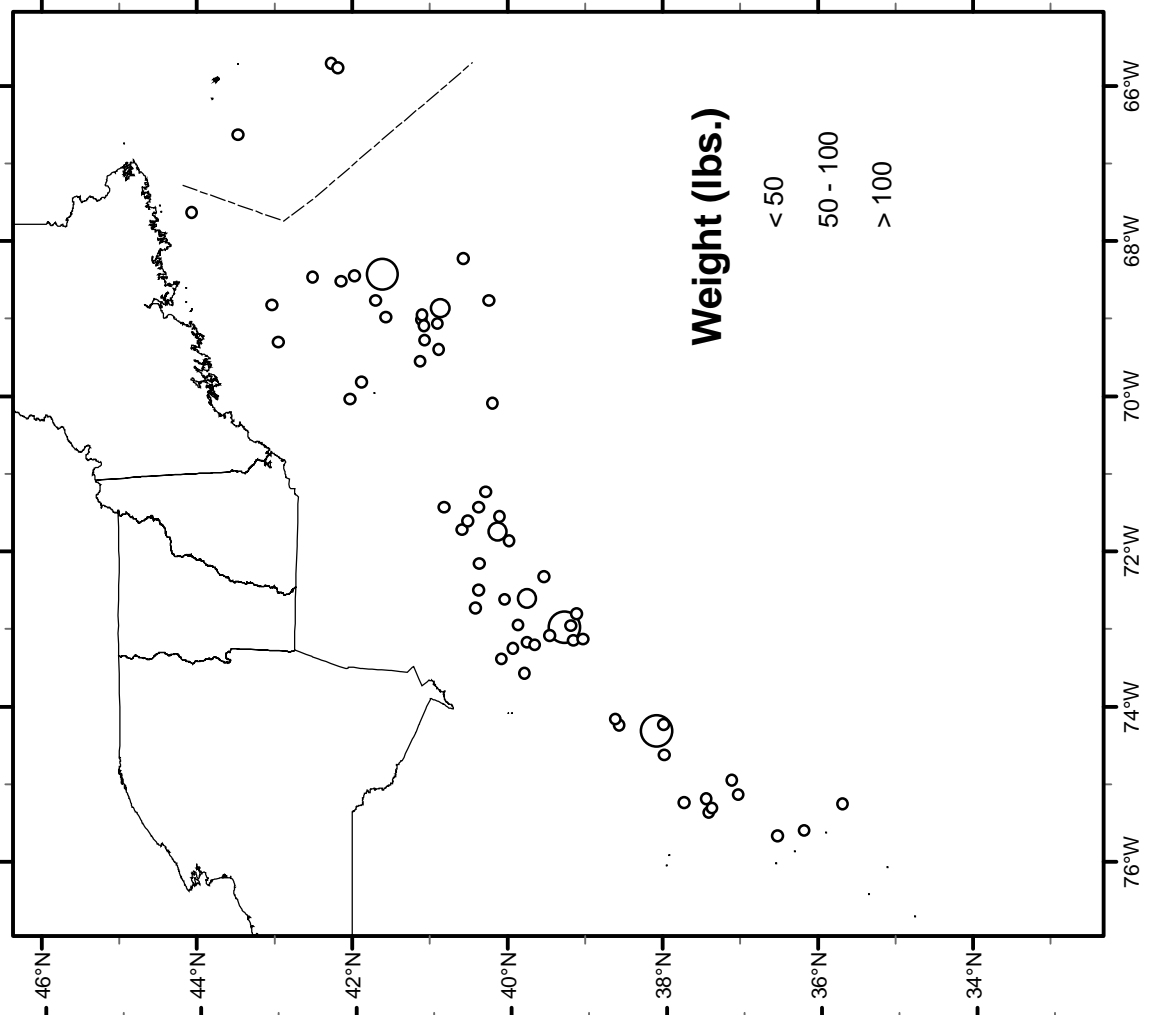
BLACK SEA BASS
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



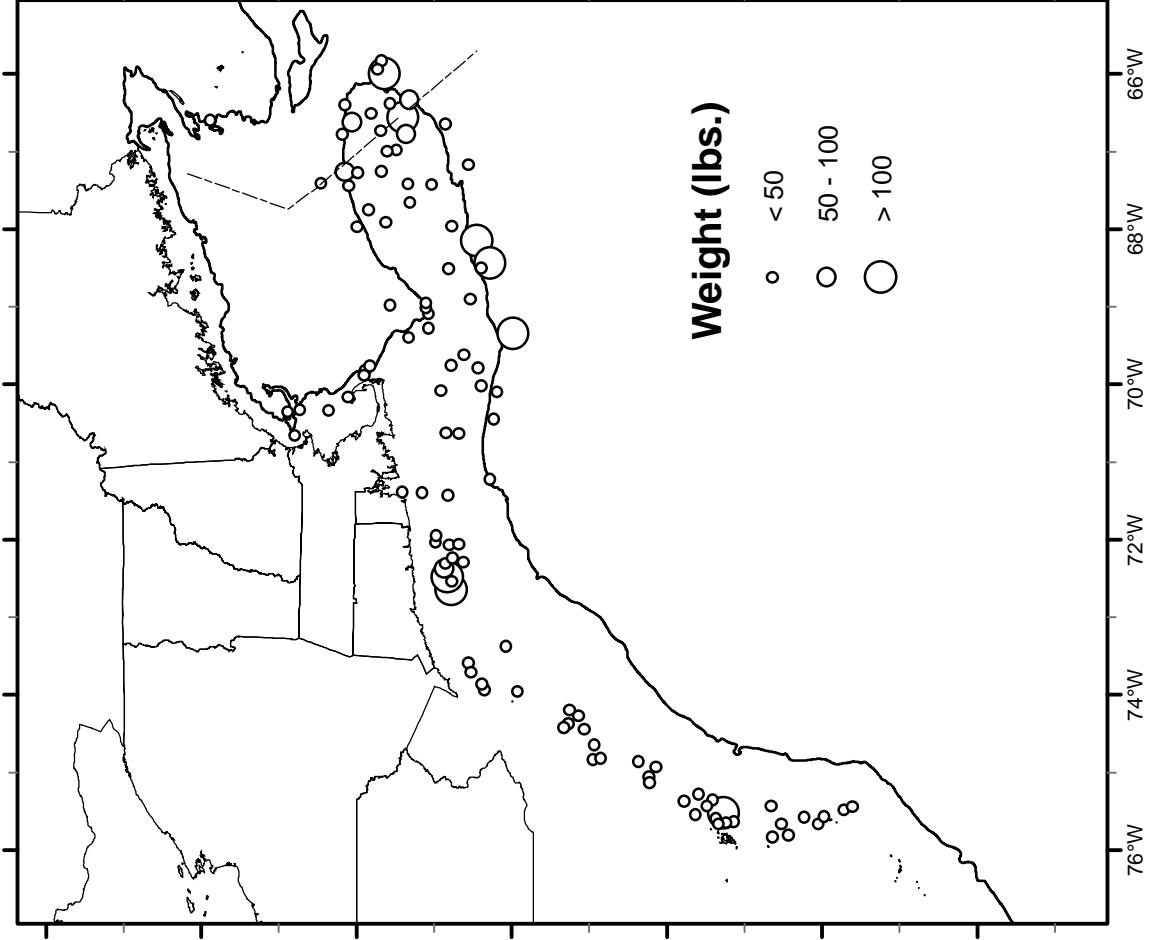
ATLANTIC HERRING
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



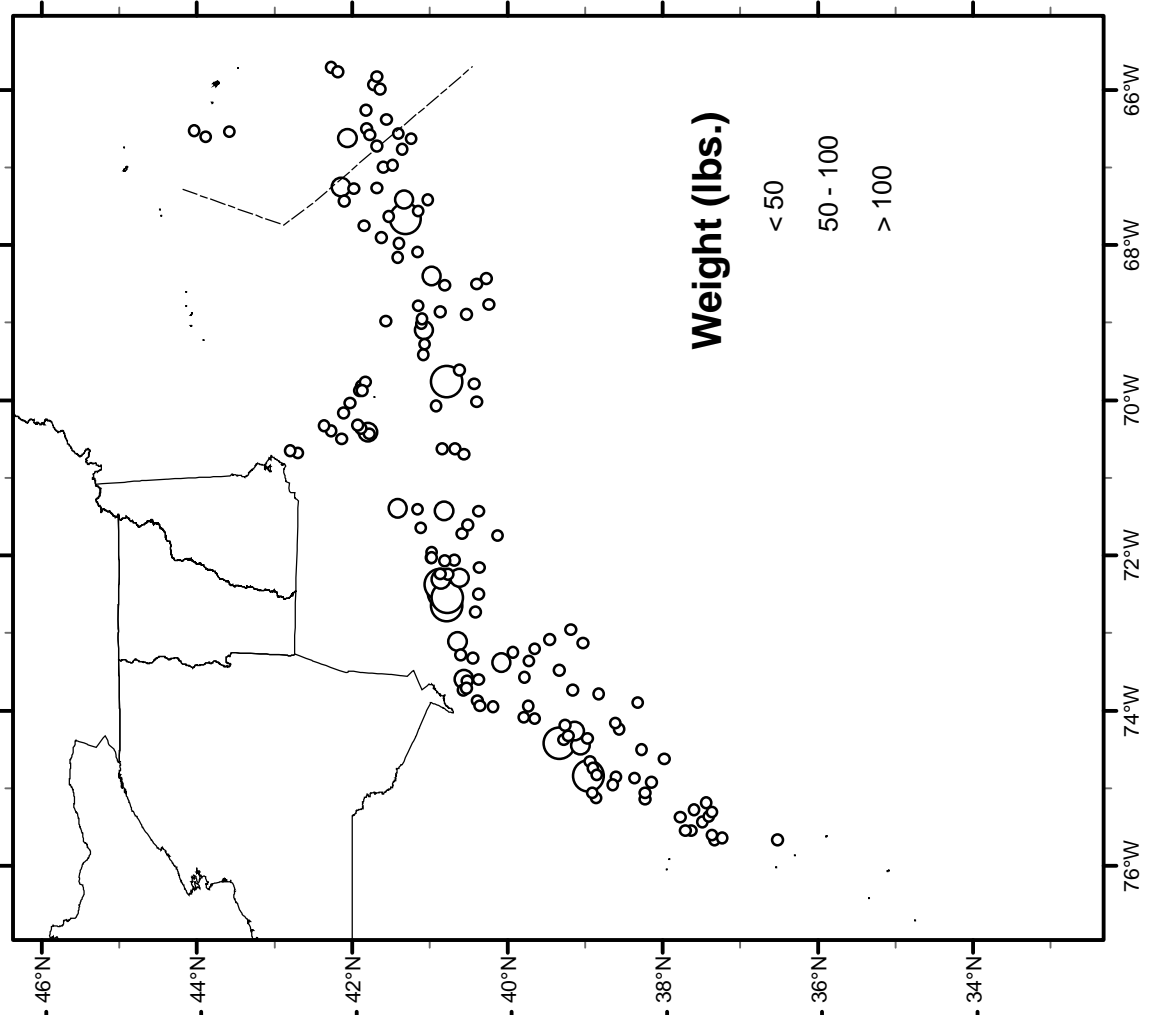
ATLANTIC MACKEREL
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



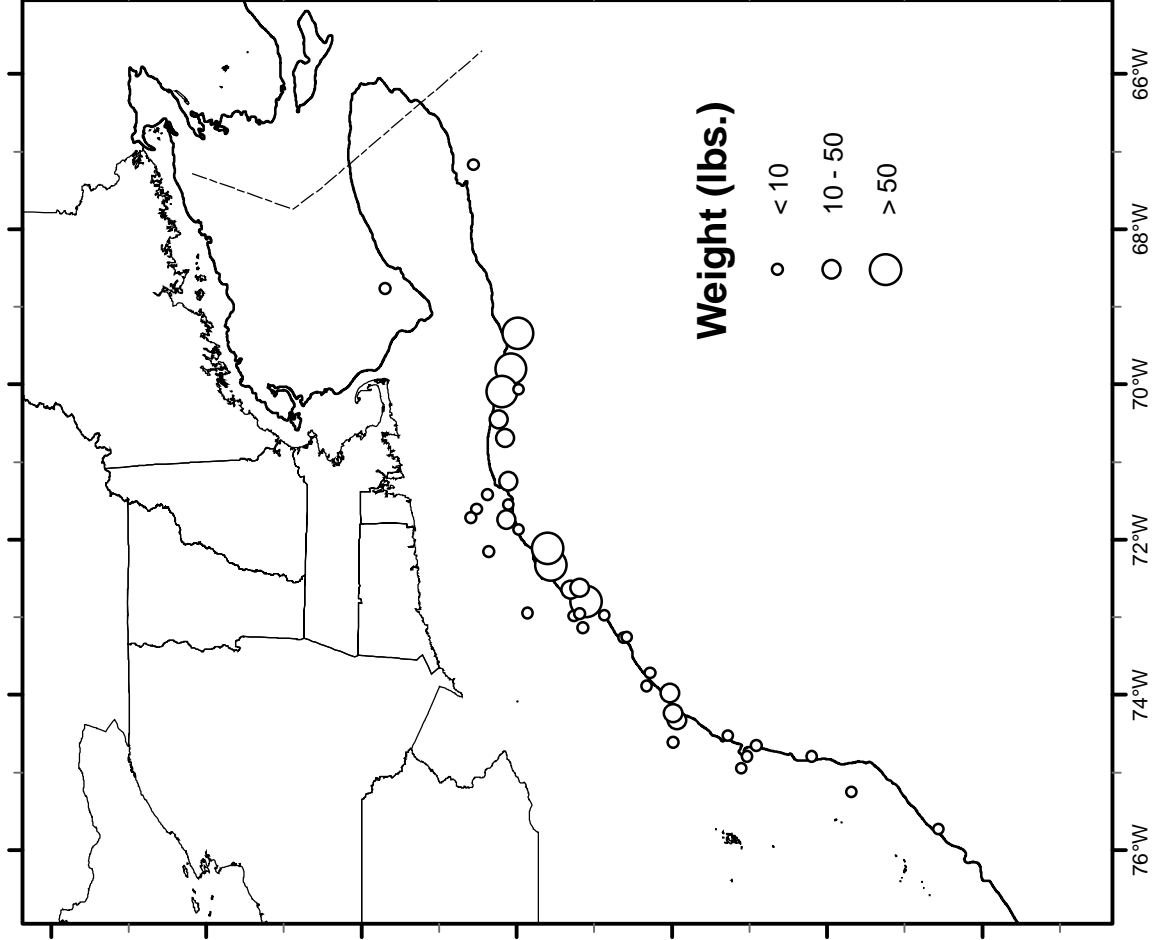
WINTER SKATE
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



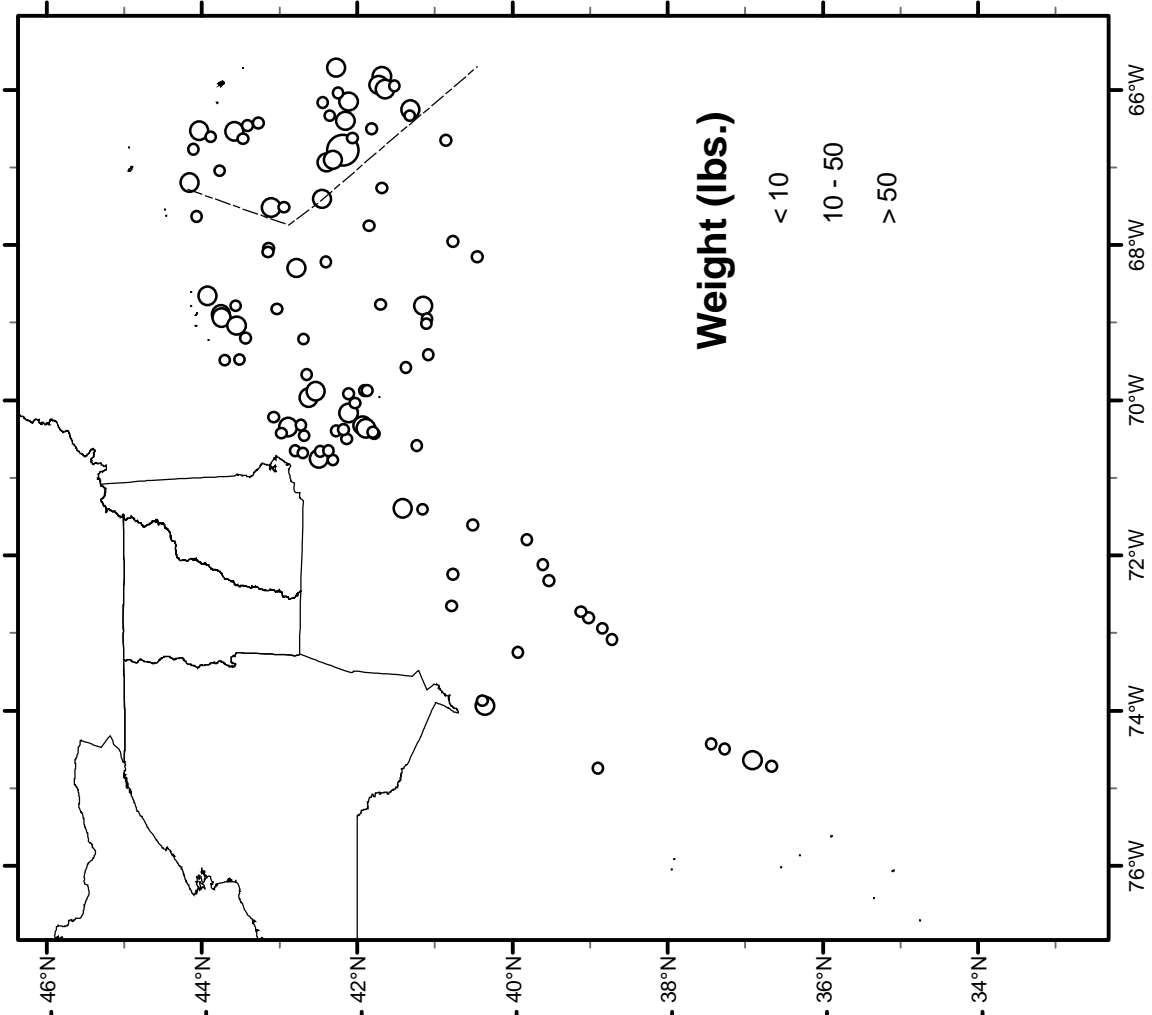
LITTLE SKATE
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



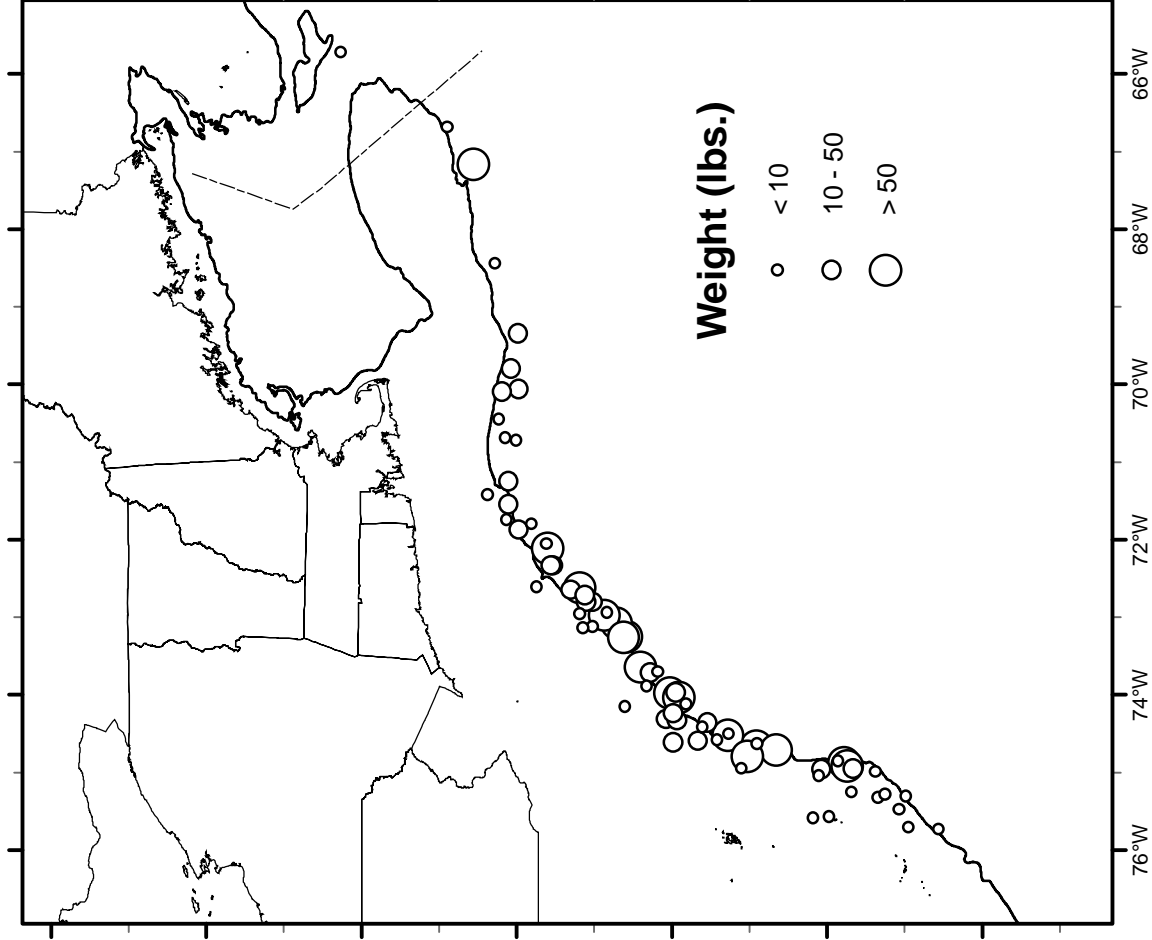
BUTTERFISH
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



AMERICAN LOBSTER
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



LOLIGO
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007



ILLEX
NOAA Fisheries Service
Bottom Trawl Survey
7 March - 28 April 2007

