

Transect Report

Overview

This report provides summary statistics and figures for ongoing transect sampling. The first section of the report focuses on the current sampling (Winter 2020-2021) and how the collected data compare to last year's sampling (Winter 2019-2020). So far 16 days have been sampled this season. The second half of the report gives summaries of all of the data that have been collected since the beginning of the project (2010-05-27). In total, 109 days have been sampled over this entire project.

Definition of Localities

LOCALITY	LOCATION
BT	Big Trout
CK	Cedar Key
CR	Corrigan's Reef
HB	Horseshoe Beach
LC	Lone Cabbage
LT	Little Trout
NN	No Name

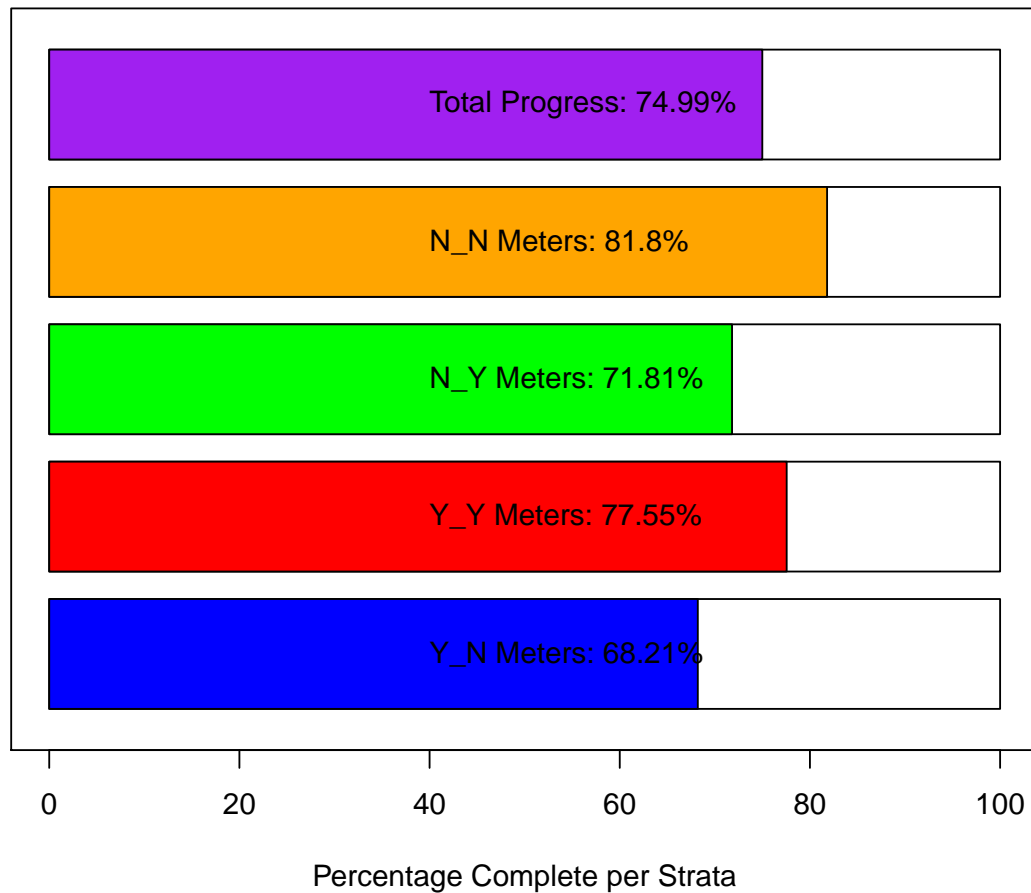
Definition of Strata

STRATA	DEFINITION
Y_N	Yes Harvest, No Rock
Y_Y	Yes Harvest, Yes Rock
N_N	No Harvest, No Rock
N_Y	No Harvest, Yes Rock
N_PILOT	No Harvest, Pilot Rocks

Current Sampling

Here, we provide a progress bar showing how much of the sampling has been completed for this season, plus summary tables and plots comparing live counts and density of oysters between this current season and last year. **The current sampling period is period 22, and last year's sampling period is period 20.**

Field Sites– Strata Progress



Summary Tables for Periods 18, 20 and 22

These summary tables provide summary statistics on live counts and oyster densities for just periods **18 (Winter 2018-2019)**, **20 (Winter 2019-2020)** and **22 (Winter 2020-2021)**.

Summary statistics include:

- Locality or Strata or Period - Mean
- Median
- Standard Deviation (SD)
- Variance (Var)
- Coefficient of variation (CV)
- Standard Error (SE)
- Lower 95% Confidence Interval assuming normal distribution (L95)
- Upper 95% Confidence Interval assuming normal distribution (U95)
- Bootstrap Mean (Bstrap Mean)
- Lower 95% Confidence Interval from Bootstrap Values (L95 Bstrap)
- Upper 95% Confidence Interval from Bootstrap Values (U95 Bstrap)

Summary of Live Counts for Periods 18, 20 and 22

Live Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	1691	856	2355	5547854	1.39	680	359	3024	1664	672	3070
LC	1417	907	1630	2656516	1.15	157	1109	1724	1410	1135	1718
LT	1054	877	645	416505	0.61	167	728	1381	1052	787	1372
NN	720	649	644	414522	0.89	204	321	1119	708	389	1135

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	1096	766	1264	1598540	1.15	175	752	1440	1087	815	1463
N_PILOT	356	356	NA	NA	NA	NA	NA	NA	178	7	349
N_Y	2364	1619	2201	4846019	0.93	440	1501	3227	2380	1593	3283
Y_N	889	698	793	629003	0.89	110	673	1104	894	692	1118
Y_Y	2242	2039	2376	5645351	1.06	613	1039	3444	2245	1295	3586

Live Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	982	695	935	874733	0.95	120	748	1217	982	751	1225
20	1844	1253	2125	4517189	1.15	310	1236	2451	1824	1294	2451
22	1344	700	1509	2278098	1.12	248	857	1830	1333	915	1800

Live Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	257	212	198	39335	0.77	57	145	370	257	163	381
LC	171	154	126	15992	0.74	12	147	195	171	149	195
LT	274	239	152	23145	0.56	39	197	351	275	201	353
NN	215	154	234	54714	1.09	74	70	360	215	108	375

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	233	190	170	28981	0.73	24	187	279	234	191	281
N_PILOT	102	102	NA	NA	NA	NA	NA	NA	51	3	99
N_Y	150	138	98	9545	0.65	20	112	189	150	112	187
Y_N	193	179	150	22356	0.78	21	152	233	192	153	233

Y_Y	122	112	87	7615	0.71	23	78	167	121	81	166
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Live Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	177	155	131	17117	0.74	17	144	210	176	145	208
20	258	203	188	35185	0.73	27	204	312	259	213	313
22	132	127	68	4683	0.52	11	110	154	133	110	153

Summary of Dead Counts for Periods 18, 20 and 22

Dead Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	325	169	328	107312	1.01	95	140	510	327	170	508
LC	124	70	126	15901	1.01	12	101	148	125	101	149
LT	240	210	202	40850	0.84	52	137	342	239	149	345
NN	100	68	100	10018	1.00	32	38	162	101	50	165

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	207	125	215	46152	1.04	30	148	265	207	152	270
N_PILOT	9	9	NA	NA	NA	NA	NA	NA	5	1	9
N_Y	79	55	95	9095	1.21	19	41	116	79	47	121
Y_N	132	87	128	16256	0.97	18	97	166	131	99	168
Y_Y	157	104	168	28145	1.07	43	73	242	157	85	249

Dead Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	133	55	192	36903	1.44	25	85	182	133	88	181
20	148	107	140	19727	0.95	20	108	188	148	111	193
22	185	108	162	26173	0.87	27	133	237	185	137	240

Dead Oyster Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	54	42	35	1250	0.66	10.2	34	74	53	36	73
LC	20	11	22	489	1.09	2.1	16	24	20	16	24
LT	58	47	40	1570	0.68	10.2	38	78	58	38	78
NN	28	16	26	668	0.91	8.2	12	45	29	15	45

Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	43.3	36.9	33.1	1097	0.77	4.59	34.3	52	43.1	34.1	52.7
N_PILOT	2.6	2.6	NA	NA	NA	NA	NA	NA	1.5	1.0	2.0
N_Y	5.2	3.8	4.5	21	0.87	0.91	3.4	7	5.2	3.6	7.1
Y_N	28.4	22.0	25.7	662	0.91	3.57	21.4	35	28.3	22.1	35.7
Y_Y	8.8	8.6	6.6	43	0.75	1.70	5.5	12	8.8	5.5	11.9

Dead Oyster Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
18	26	16	31	980	1.19	4.0	19	34	26	19	35
20	28	18	26	698	0.95	3.9	20	35	28	21	36
22	29	15	29	862	1.02	4.8	19	38	28	20	39

Summary Plots for Periods 18, 20 and 22

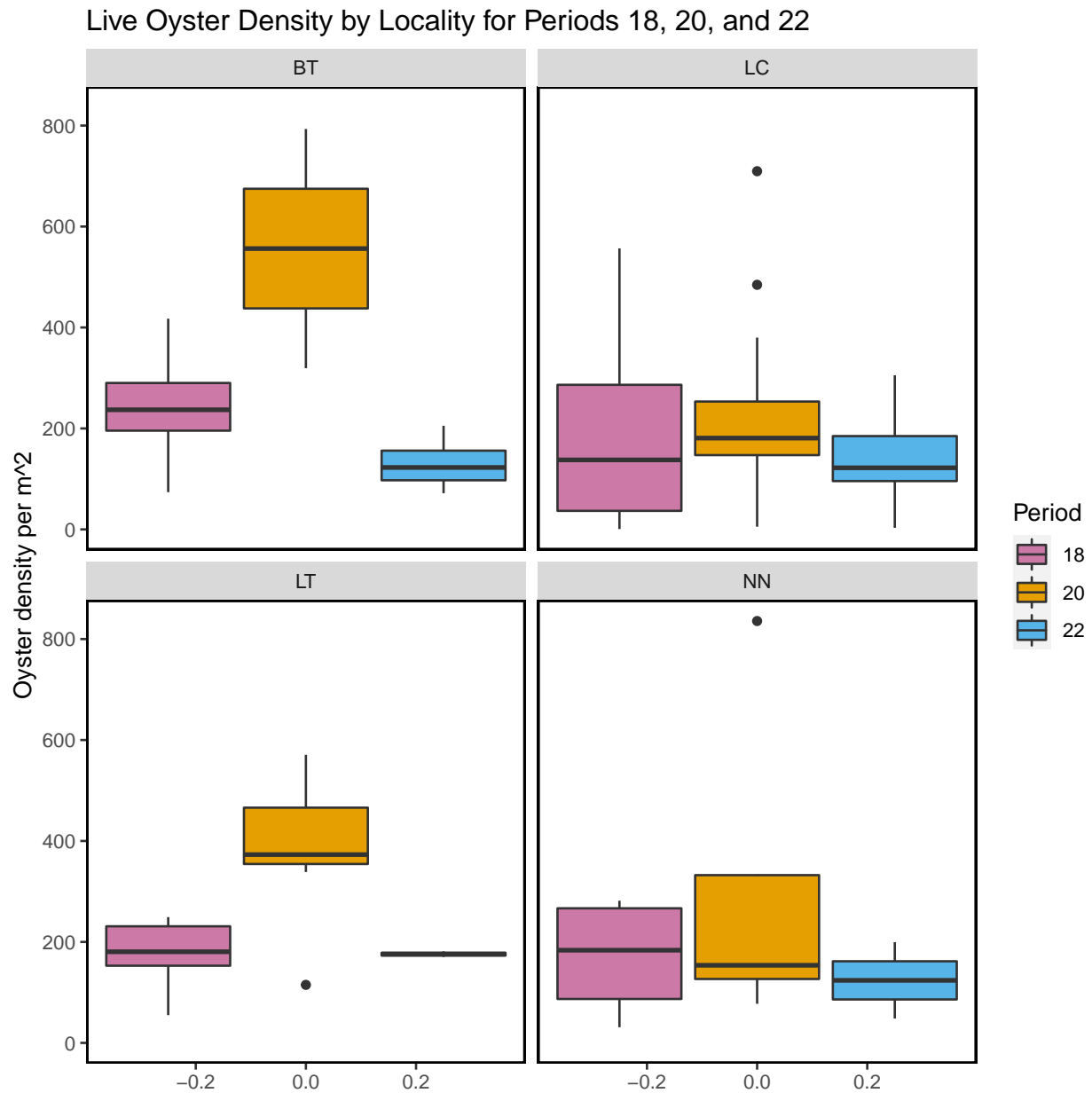


Figure- Calculated live oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

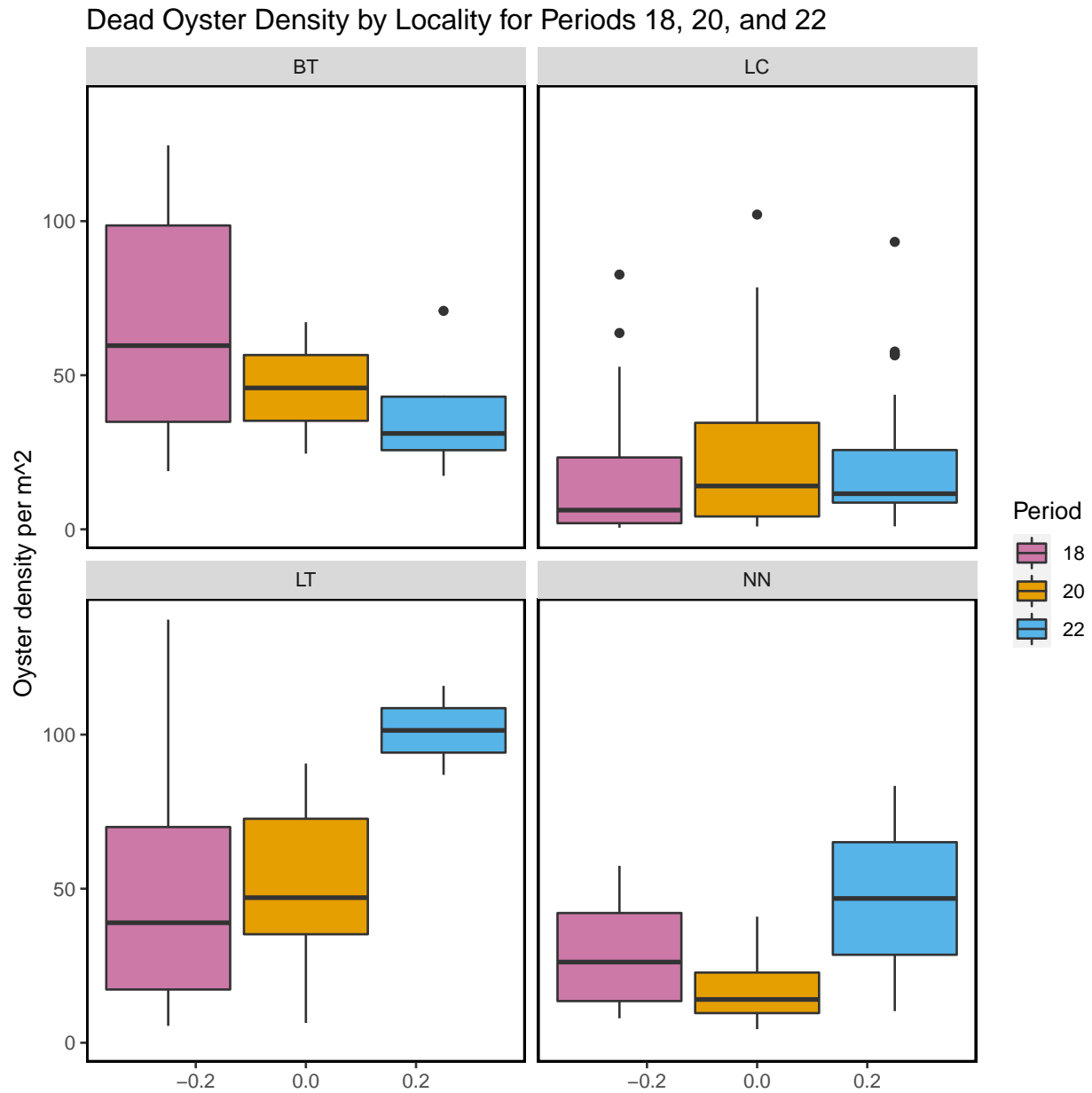


Figure- Calculated dead oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

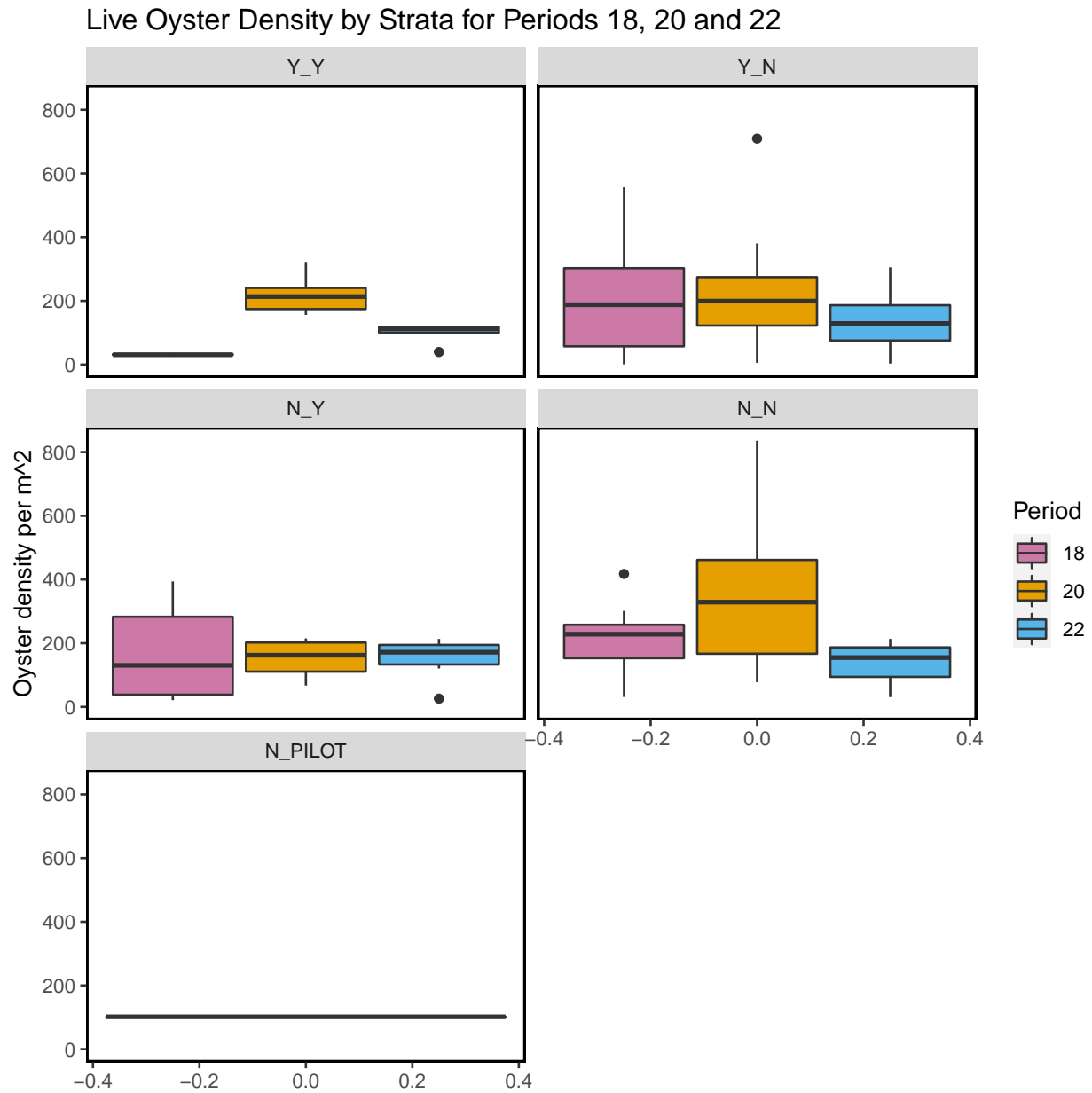


Figure- Calculated live oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

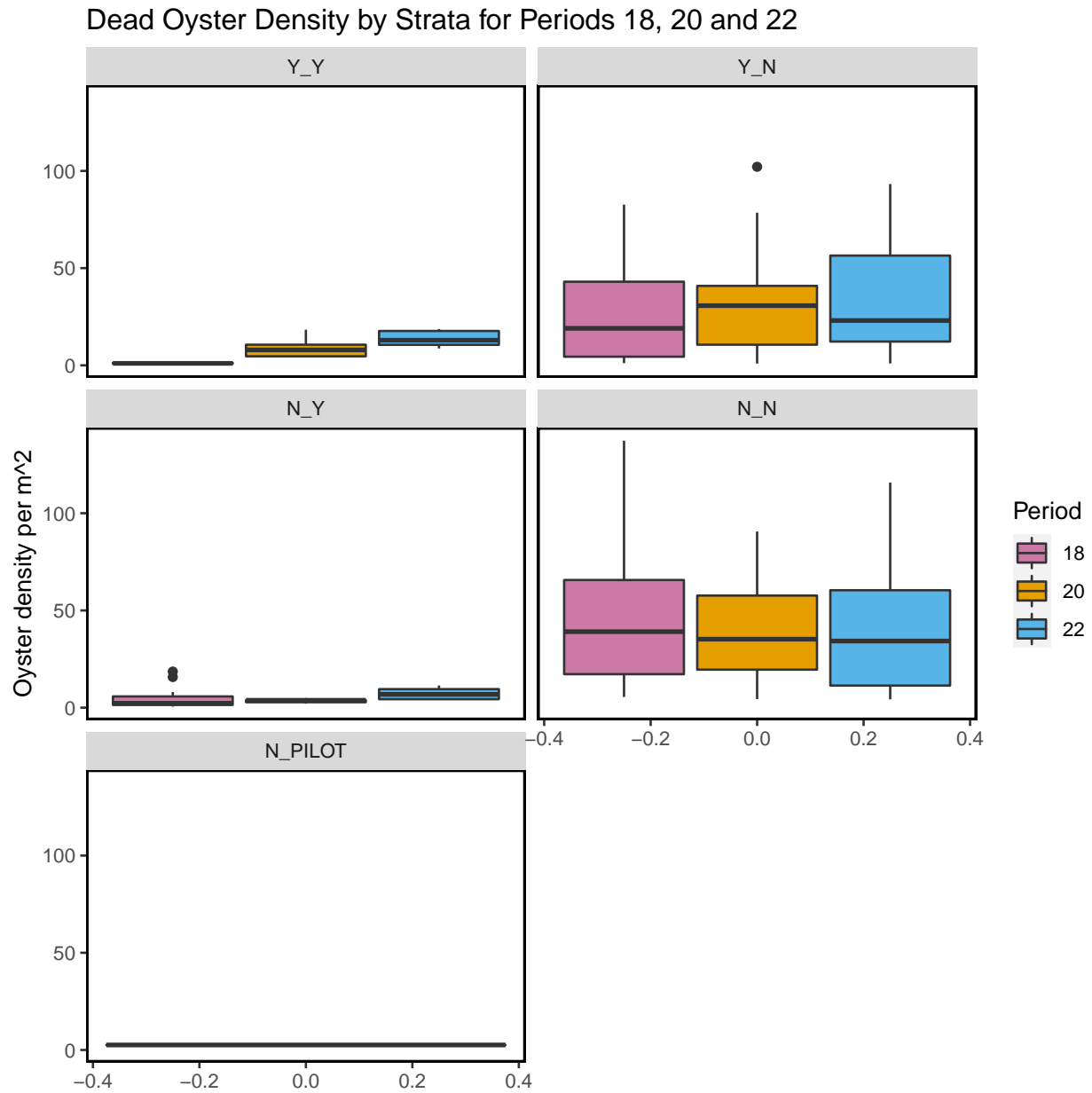


Figure- Calculated dead oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021) with the last sample date of period 22 as 2021-01-15.

The following summary plot is calculated in R using the `geom_density` (https://ggplot2.tidyverse.org/reference/geom_density.html) statistical function in `ggplot`. The `geom_density` function computes and draws kernel density estimates, which is then represented as a smoothed version of a histogram.

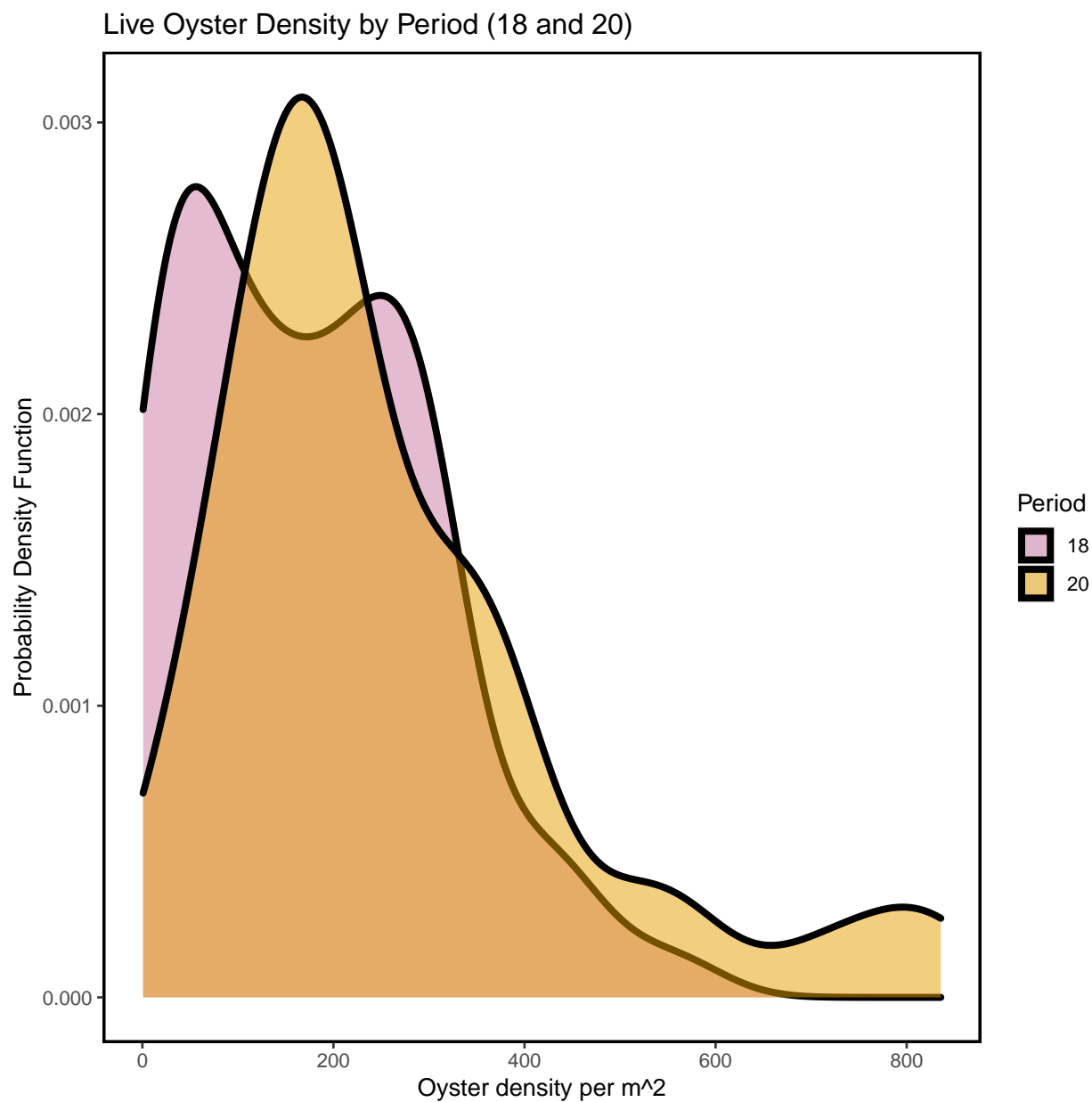


Figure- Calculated live oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-01-15.

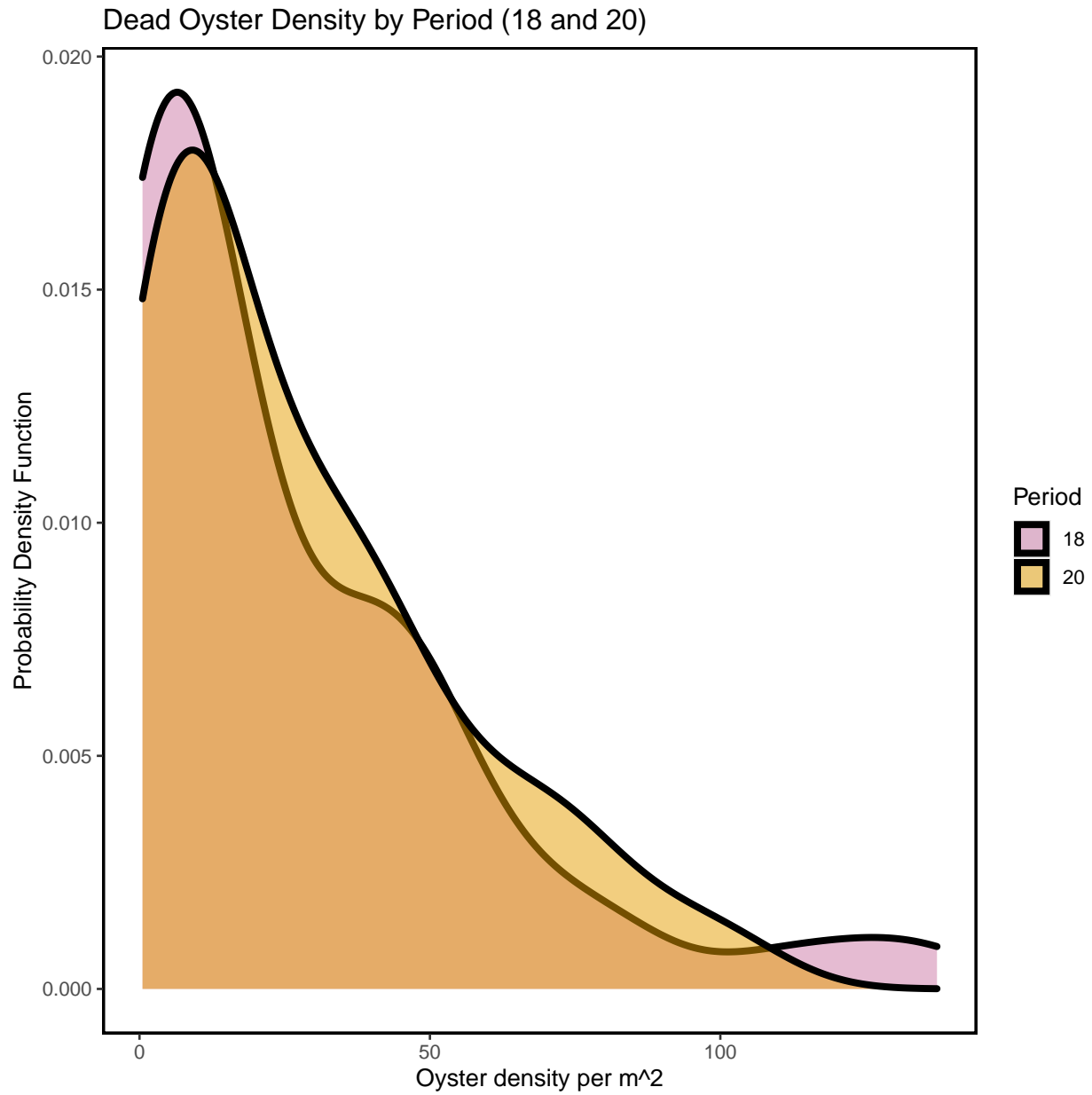


Figure- Calculated dead oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-01-15.

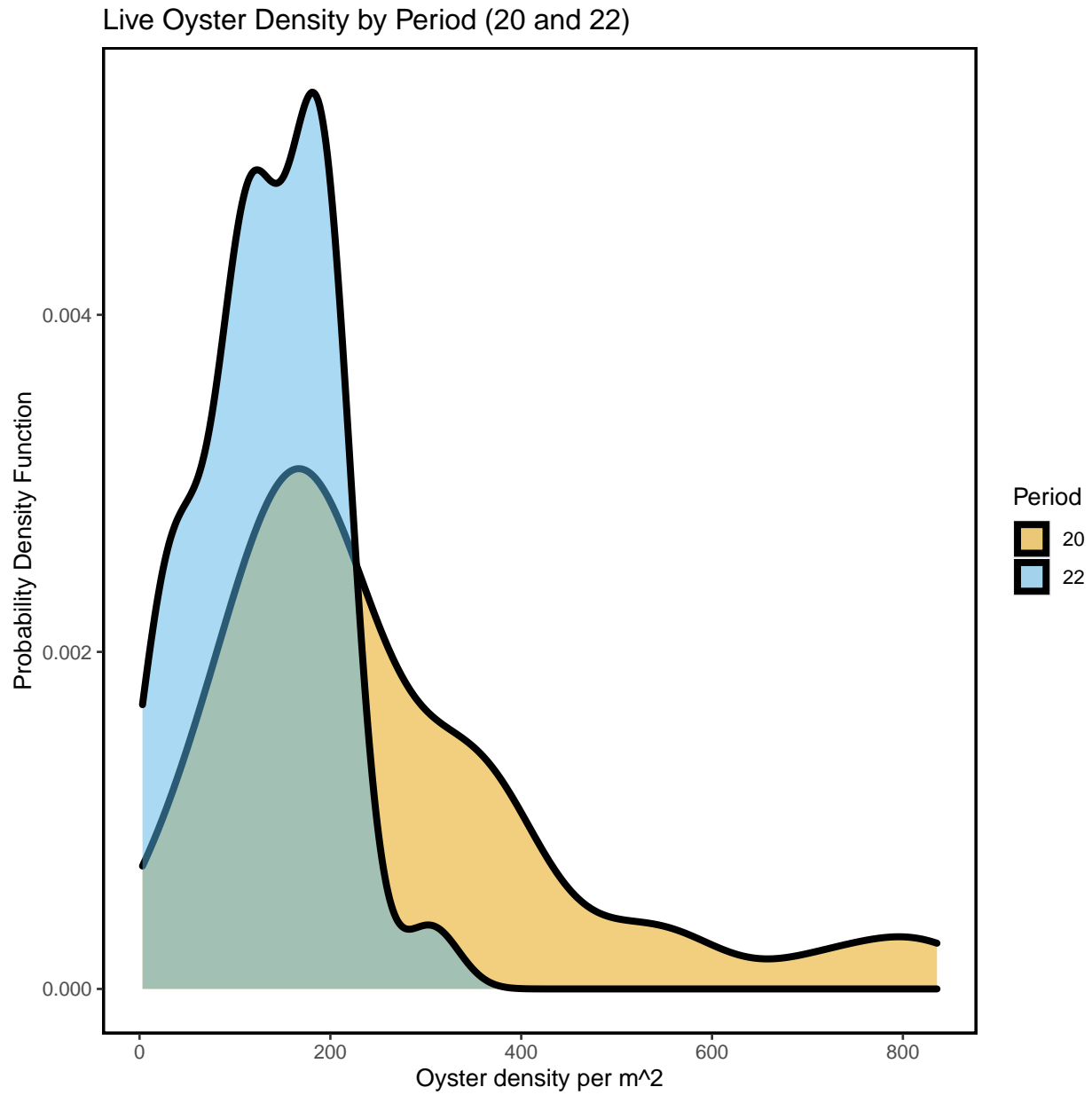


Figure- Calculated live oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-01-15.

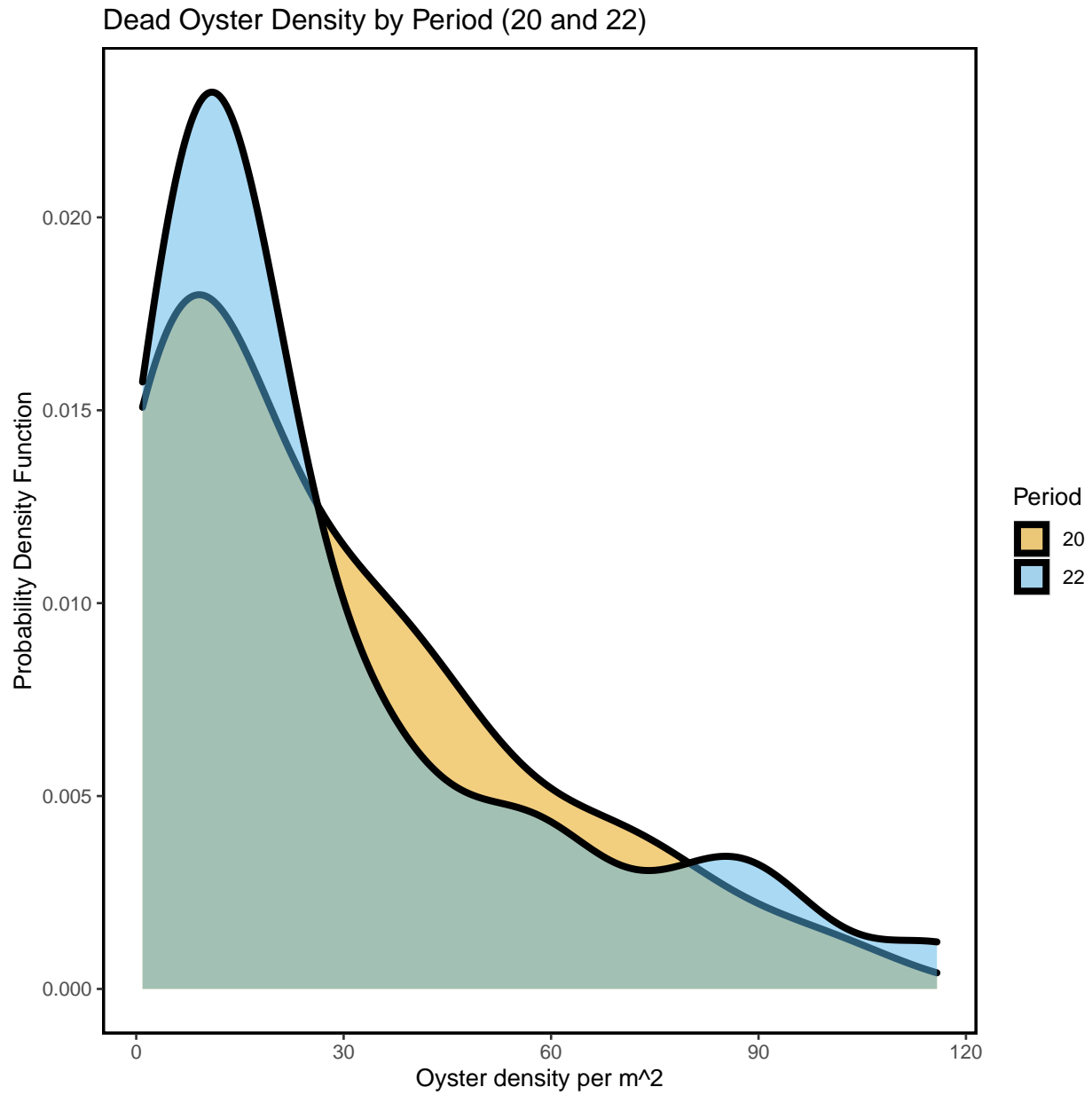


Figure- Calculated dead oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-01-15.

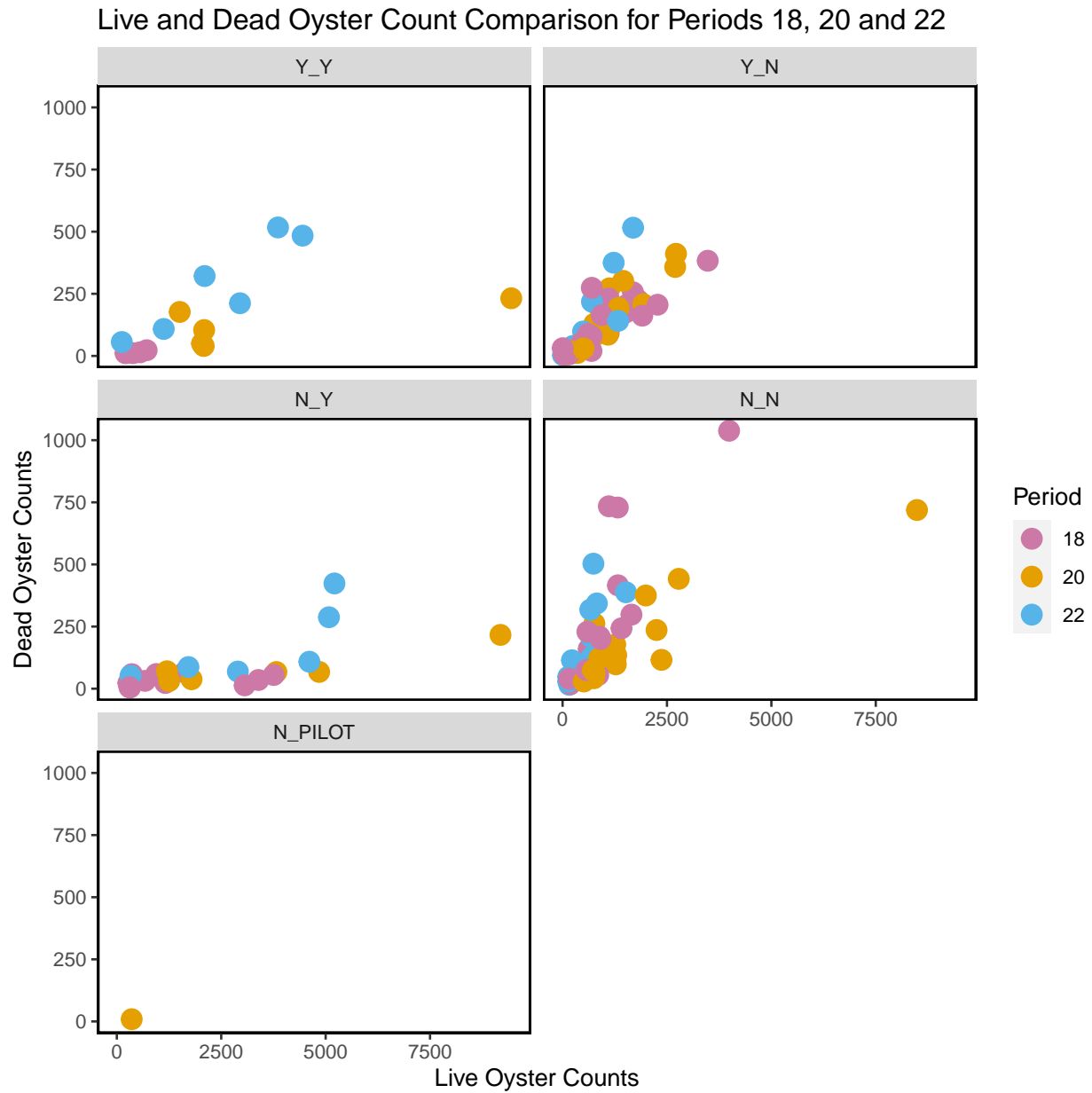


Figure- Live and dead oyster count comparison by periods 18 (Winter 2018- 2019), 20 (Winter 2019-2020) and 22 (Winter 2020-2021), last sample date of period 22 as 2021-01-15.

Live Counts Double Pass Results

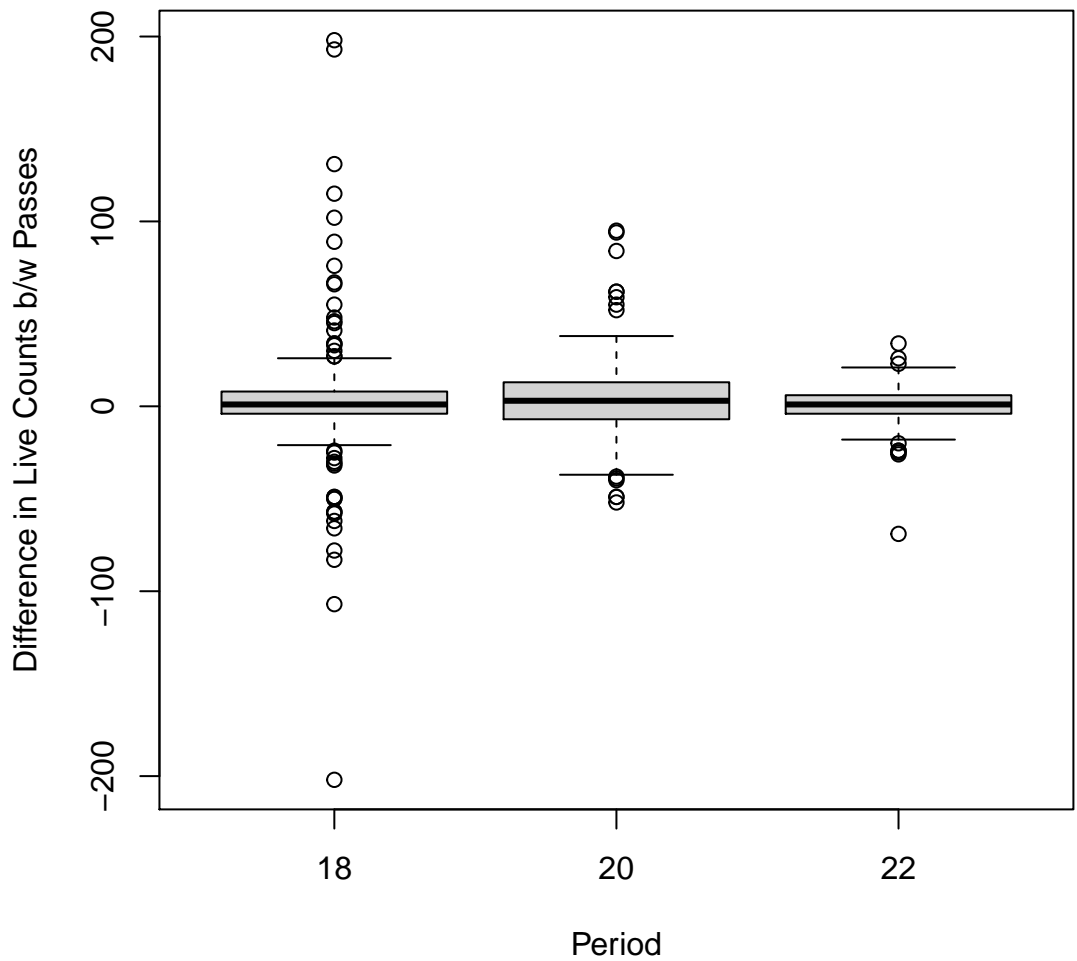


Figure- Boxplot of the difference in live counts between pass 1 and pass 2 (pass 1 live counts - pass 2 live counts) for period 18, 20, and 22

locality	period	CV_1	CV_2
BT	18	0.82	0.83
LC	18	1.34	1.43
NN	18	0.47	0.63
LC	20	0.83	0.80
LT	20	0.61	0.60
BT	22	0.39	0.52
LC	22	0.66	0.70
LT	22	0.47	0.43

Table- Coefficient variation between pass 1 and pass 2, aggregated by locality and period for live counts

Dead Counts Double Pass Results

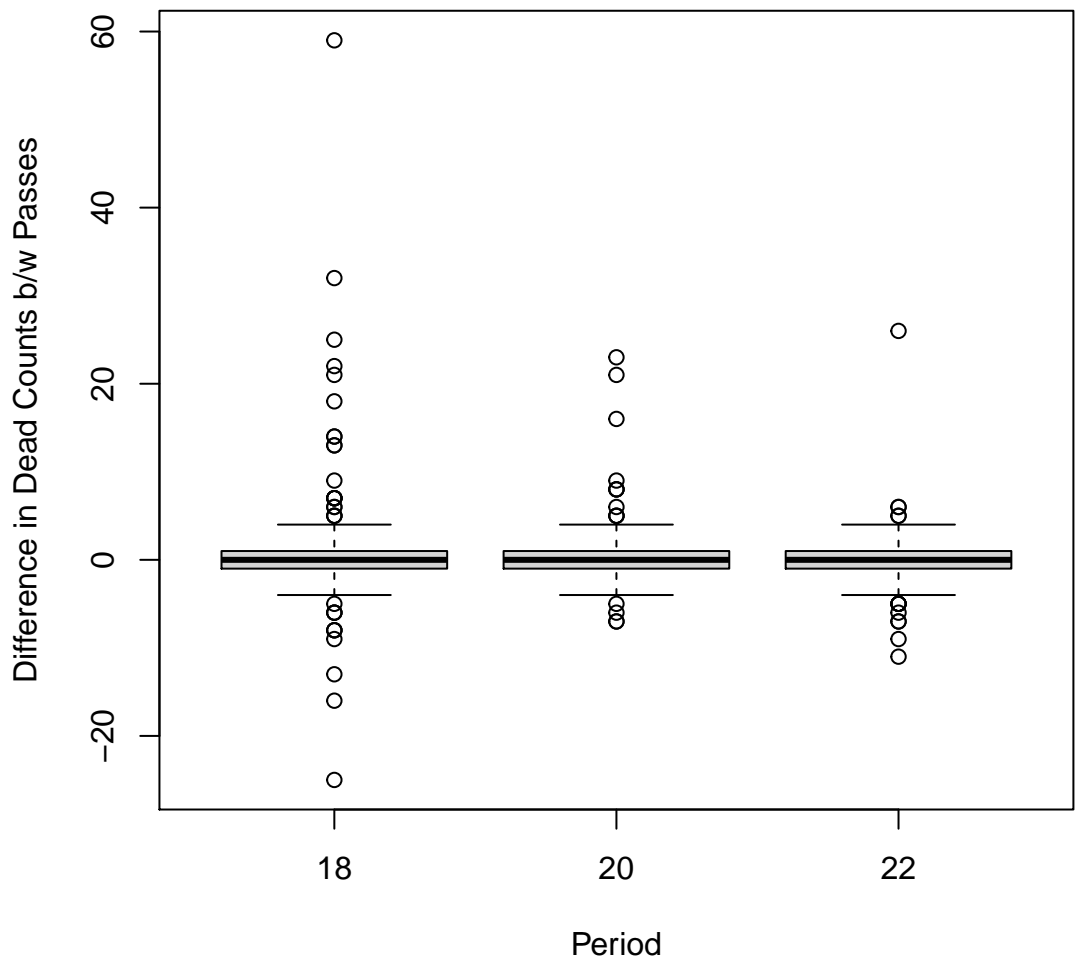


Figure- Boxplot of the difference in dead counts between pass 1 and pass 2 (pass 1 dead counts - pass 2 dead counts) for period 18, 20, and 22

locality	period	CV_1	CV_2
BT	18	0.78	0.82
LC	18	2.35	2.06
NN	18	0.55	0.73
LC	20	1.93	1.62
LT	20	0.76	0.67
BT	22	0.60	0.66
LC	22	0.99	0.96
LT	22	0.79	0.74

Table- Coefficient variation between pass 1 and pass 2, aggregated by locality and period for dead counts

Sampling for all Periods

Next, we provide summary tables and plots for all transect sampling. These data were collected between 2010-05-27 and 2021-01-15. The following are only for live oysters.

Definitions of Periods

PERIOD	SEASON	YEAR
1	Summer	2010
2	Winter	2010-2011
3	Summer	2011
4	Winter	2011-2012
5	Summer	2012
6	Winter	2012-2013
7	Summer	2013
8	Winter	2013-2014
9	Summer	2014
10	Winter	2014-2015
11	Summer	2015
12	Winter	2015-2016
13	Summer	2016
14	Winter	2016-2017
15	Summer	2017
16	Winter	2017-2018
17	Summer	2018
18	Winter	2018-2019
19	Summer	2019
20	Winter	2019-2020
21	Summer	2020
22	Winter	2020-2021

Summary of Effort for all Periods

These effort summaries show the total number of transects and total number of meters walked per locality, strata, locality per period, and strata per period. **These tables contain all data collected on the transects.**

Effort by Locality

Locality	Number of Transects	Total Length (m)
BT	12	438
CK	26	712
CR	46	1330
HB	45	1129
LC	188	9721
LT	15	406
NN	10	255

Effort by Strata

Strata	Number of Transects	Total Length (m)
N_N	109	3608
N_PILOT	13	799
N_Y	25	2699
Y_N	180	5163
Y_Y	15	1721

Effort by Period

Period	Number of Transects	Total Length (m)
1	42	1086
2	30	753
3	25	619
6	33	874
7	8	528
10	8	512
11	8	511
16	8	528
18	61	2632
19	35	921
20	47	2556
22	37	2469

Effort by Locality and Period

Period	Locality	Number of Transects	Total Length (m)
1	CK	9	242
1	CR	10	300
1	HB	12	293
1	LC	11	250
10	LC	8	512
11	LC	8	511
16	LC	8	528
18	BT	6	238
18	LC	45	2128
18	LT	6	182
18	NN	4	84
19	CK	9	221
19	CR	9	227

19	HB	9	247
19	LC	8	226
2	CR	9	283
2	HB	11	271
2	LC	10	199
20	BT	2	96
20	LC	34	2163
20	LT	7	171
20	NN	4	126
22	BT	4	104
22	LC	29	2268
22	LT	2	52
22	NN	2	46
3	CR	9	269
3	HB	7	184
3	LC	9	167
6	CK	8	248
6	CR	9	250
6	HB	6	134
6	LC	10	242
7	LC	8	528

Effort by Strata and Period

Period	Strata	Number of Transects	Total Length (m)
1	N_N	8	149
1	Y_N	34	937
10	N_N	4	256
10	N_PILOT	4	256
11	N_N	4	255
11	N_PILOT	4	256
16	N_N	4	264
16	N_PILOT	4	264
18	N_N	18	571
18	N_Y	13	962
18	Y_N	26	723
18	Y_Y	4	376
19	N_N	5	80
19	Y_N	30	841
2	N_N	8	148
2	Y_N	22	605
20	N_N	18	590
20	N_PILOT	1	23
20	N_Y	6	888
20	Y_N	17	602
20	Y_Y	5	454
22	N_N	16	442
22	N_Y	6	850
22	Y_N	9	287
22	Y_Y	6	891
3	N_N	8	147
3	Y_N	17	472
6	N_N	8	178
6	Y_N	25	695
7	N_N	8	528

Effort Plot Summaries for all Periods

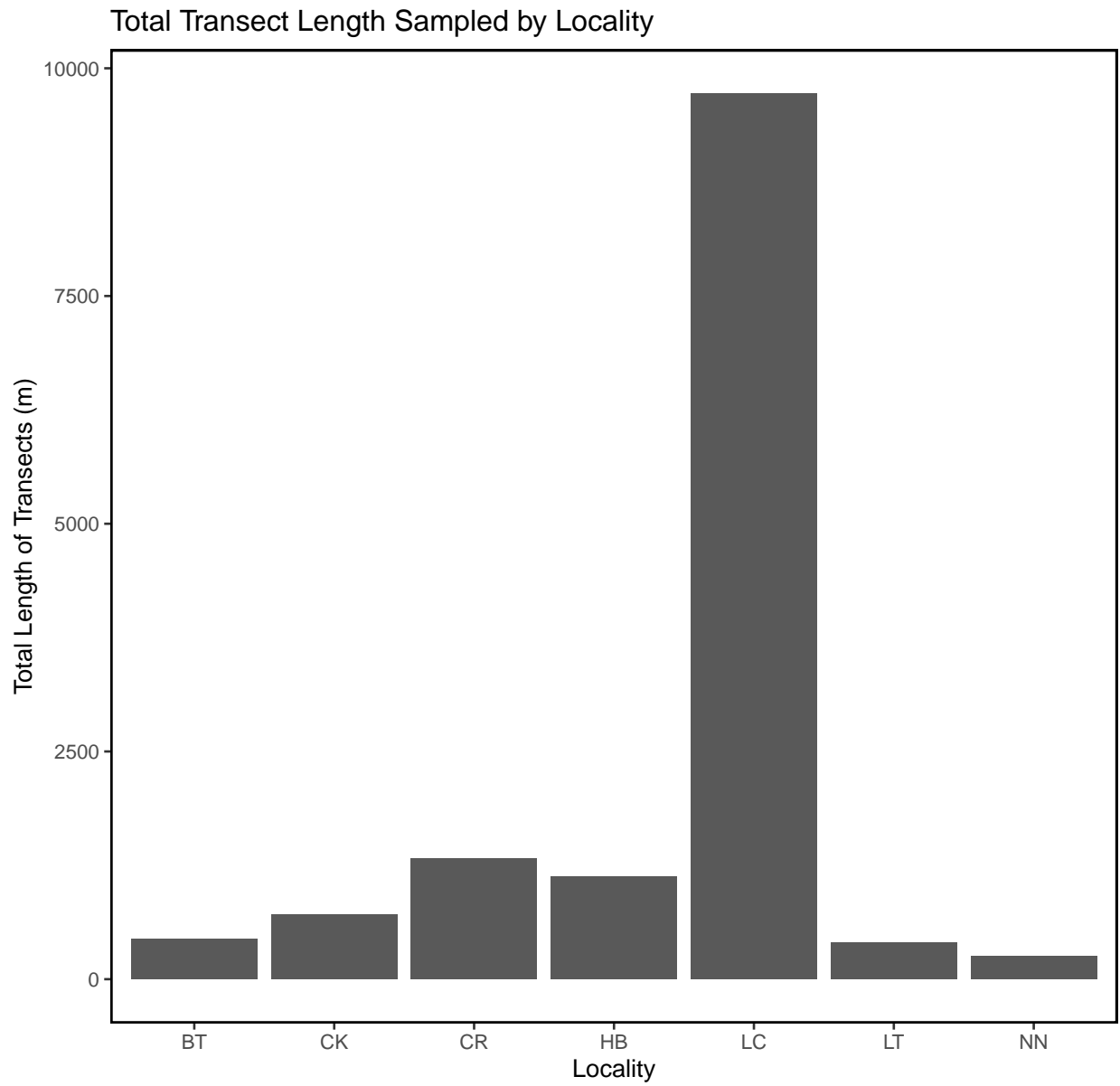


Figure – Bar plot of total transect length in meters sampled by locality for all periods.

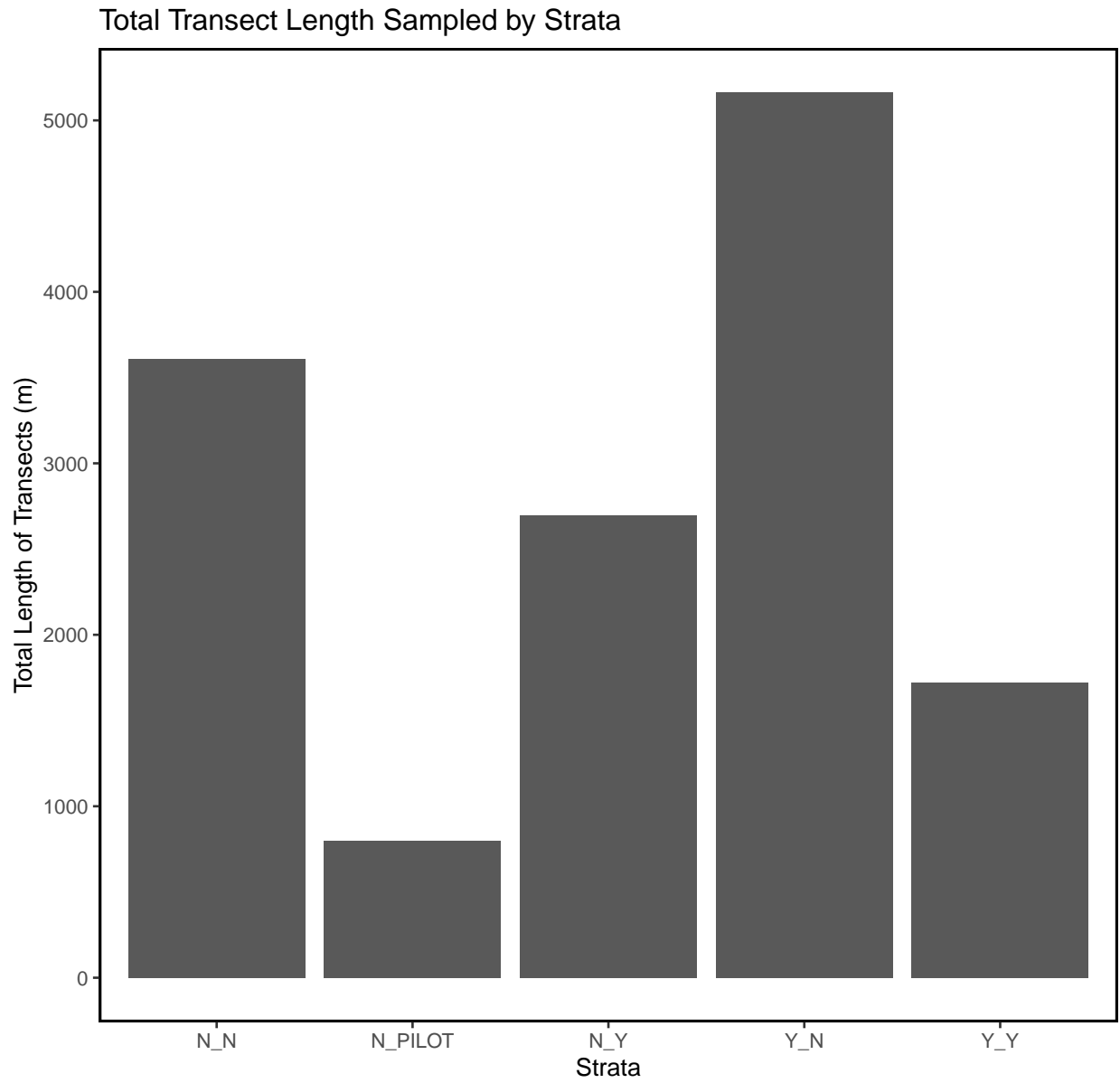
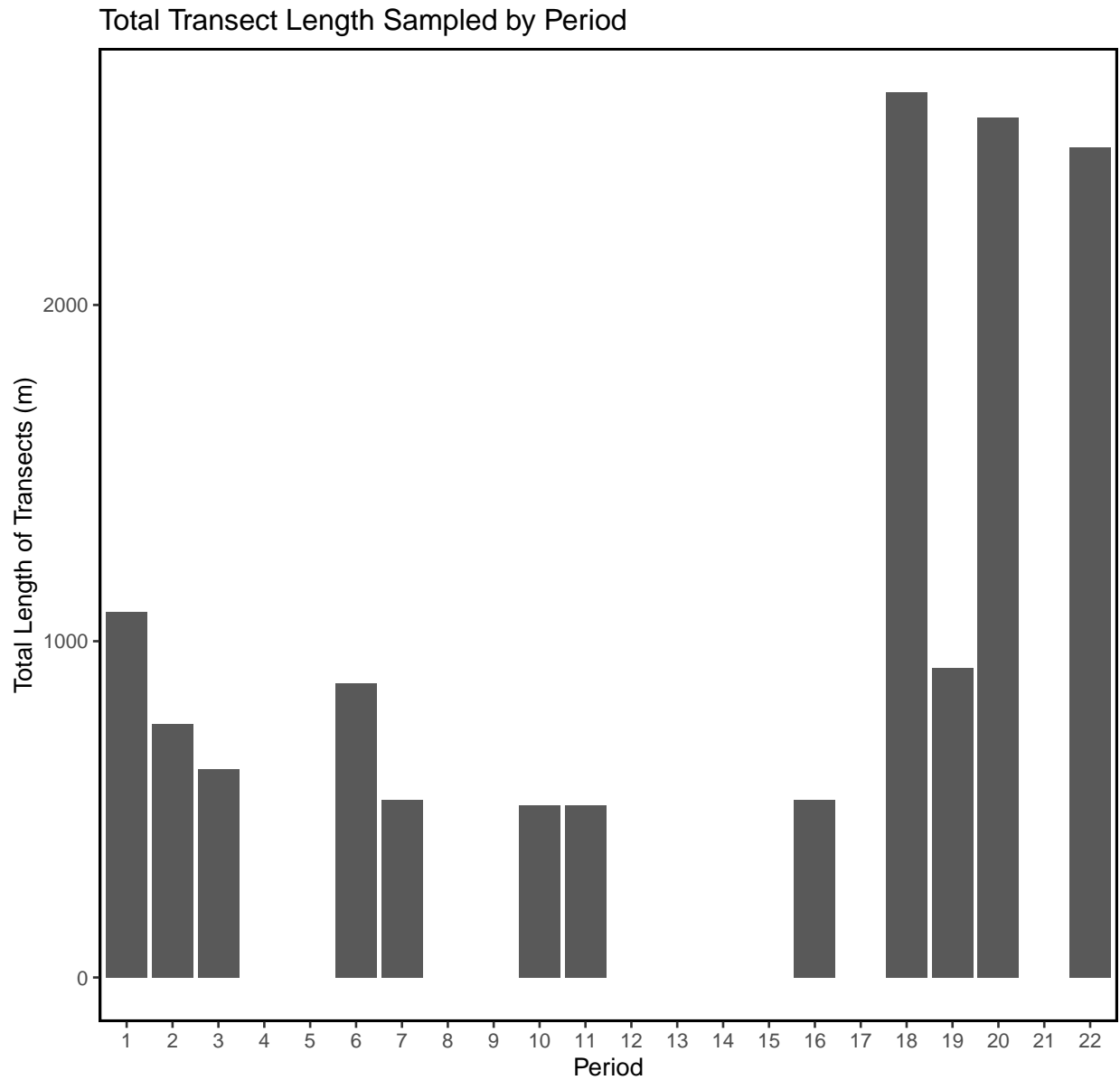


Figure – Bar plot of total transect length in meters sampled by strata for all periods.



Figure– Bar plot of total transect length in meters sampled by period for all periods.

Summary Tables for all Periods

These summaries display summary statistics of live oysters by locality, strata, and period. These contain all data collected on the oyster transects.

The summary statistics include:

- Locality or Strata or Period - Mean
- Median
- Standard Deviation (SD)
- Variance (Var)
- Coefficient of variation (CV)
- Standard Error (SE)
- Lower 95% Confidence Interval assuming normal distribution (L95)
- Upper 95% Confidence Interval assuming normal distribution (U95)
- Bootstrap Mean (Bstrap Mean)
- Lower 95% Confidence Interval from Bootstrap Values (L95 Bstrap)
- Upper 95% Confidence Interval from Bootstrap Values (U95 Bstrap)

Live Count Statistics for all Periods

Live Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	1691	856	2355	5547854	1.39	680	359	3024	1680	715	2991
CK	857	444	1091	1190933	1.27	214	438	1277	855	473	1290
CR	1026	716	1035	1072162	1.01	153	727	1325	1028	746	1340
HB	902	364	1047	1095622	1.16	158	592	1211	905	590	1227
LC	1082	693	1373	1886301	1.27	101	884	1280	1081	901	1283
LT	1054	877	645	416505	0.61	167	728	1381	1049	772	1384
NN	720	649	644	414522	0.89	204	321	1119	715	414	1105

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	985	749	1073	1150831	1.09	103	783	1188	984	807	1188
N_PILLOT	1046	1109	627	392853	0.60	174	705	1386	1046	742	1398
N_Y	2364	1619	2201	4846019	0.93	440	1501	3227	2381	1602	3268
Y_N	791	436	926	857695	1.17	70	654	927	793	659	941
Y_Y	2242	2039	2376	5645351	1.06	613	1039	3444	2237	1232	3516

Live Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
1	1404	1018	1288	1657932	0.92	199	1014	1793	1409	1016	1823
2	890	476	945	893727	1.06	176	546	1234	893	571	1217
3	738	296	817	668064	1.11	167	411	1065	742	443	1107
6	433	176	534	284791	1.23	96	245	621	430	260	617
7	50	29	56	3186	1.12	20	11	90	50	17	92
10	1207	1074	671	449607	0.56	237	743	1672	1202	813	1643
11	886	776	678	459708	0.77	240	416	1356	875	473	1339
16	494	366	467	217855	0.95	165	170	817	498	222	841
18	982	695	935	874733	0.95	120	748	1217	981	757	1242
19	555	329	573	328431	1.03	97	365	745	550	384	748
20	1844	1253	2125	4517189	1.15	310	1236	2451	1828	1264	2478
22	1344	700	1509	2278098	1.12	248	857	1830	1345	910	1836

Live Density Statistics for all Periods

Live Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	257	212	198	39335	0.77	57	145	370	256	165	380
CK	241	112	321	102795	1.33	63	118	365	243	127	382
CR	288	181	294	86231	1.02	43	203	373	286	207	377
HB	257	101	303	92052	1.18	46	168	347	258	174	348
LC	155	122	150	22514	0.97	11	133	177	155	134	177
LT	274	239	152	23145	0.56	39	197	351	274	209	348
NN	215	154	234	54714	1.09	74	70	360	214	108	363

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	261	186	260	67828	1.00	25	212	310	260	216	311
N_PILOT	111	111	60	3604	0.54	17	79	144	111	81	143
N_Y	150	138	98	9545	0.65	20	112	189	151	115	186
Y_N	190	117	220	48473	1.16	17	158	223	189	158	223
Y_Y	122	112	87	7615	0.71	23	78	167	123	83	164

Live Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
1	393	300.8	362.6	131444	0.92	56	283.8	503.1	393.9	285.1	503
2	255	119.0	285.2	81348	1.12	53	151.3	358.9	253.2	163.1	357
3	234	85.3	269.3	72523	1.15	55	126.1	341.6	232.6	126.9	349
6	122	72.2	150.9	22769	1.24	27	68.6	174.9	123.4	74.9	178
7	5	2.9	5.6	31	1.12	2	1.1	8.9	5.1	1.8	9
10	124	113.3	67.4	4536	0.54	24	76.9	170.3	124.6	85.4	172
11	90	79.5	67.8	4596	0.75	24	43.4	137.4	90.9	50.6	138
16	49	36.3	46.4	2154	0.95	16	16.9	81.2	49.4	20.6	83
18	177	154.5	130.8	17117	0.74	17	144.3	210.0	177.3	145.4	209
19	160	85.6	171.9	29552	1.08	29	102.9	216.8	160.7	105.5	218
20	258	202.8	187.6	35185	0.73	27	204.4	311.7	256.9	204.1	313
22	132	126.8	68.4	4683	0.52	11	110.2	154.3	131.9	111.4	154

Dead Count Statistics for all Periods

Dead Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	325	169	328	107312	1.01	94.6	139.6	510	325	168	507
CK	78	32	106	11170	1.36	37.4	4.3	151	79	19	153
CR	60	47	38	1444	0.63	12.7	35.2	85	60	39	85
HB	44	21	45	2000	1.02	14.9	14.8	73	44	20	72
LC	106	66	115	13240	1.09	9.5	87.1	124	106	90	125
LT	240	210	202	40850	0.84	52.2	137.2	342	237	150	338
NN	100	68	100	10018	1.00	31.7	38.1	162	99	49	158

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	154	79	194	37509	1.26	22	110	197	153	113	198
N_PILOT	82	87	46	2136	0.56	13	57	108	82	60	109
N_Y	79	55	95	9095	1.21	19	41	116	79	46	115
Y_N	104	64	116	13358	1.11	13	79	130	105	82	132
Y_Y	157	104	168	28145	1.07	43	73	242	159	83	247

Dead Oyster Counts by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
7	29	18	30	898	1.03	10.6	8.2	50	30	11	50
10	80	88	65	4245	0.82	23.0	34.5	125	79	36	125
11	50	40	25	620	0.49	8.8	33.2	68	50	36	66
16	44	28	41	1708	0.93	14.6	15.6	73	44	18	71
18	133	55	192	36903	1.44	24.6	85.1	182	132	89	182
19	63	44	67	4548	1.08	11.6	40.0	85	63	41	87
20	148	107	140	19727	0.95	20.5	107.6	188	148	108	189
22	185	108	162	26173	0.87	26.6	133.1	237	185	137	239

Dead Density Statistics for all Periods

Dead Oyster Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	54	42.3	35	1250	0.66	10.2	33.6	74	53	35.8	73
CK	21	11.3	28	757	1.29	9.7	2.3	40	21	5.8	41
CR	20	13.8	15	235	0.77	5.1	10.0	30	20	11.2	30
HB	13	8.0	14	201	1.12	4.7	3.4	22	13	4.7	22
LC	17	8.6	20	420	1.21	1.7	13.6	20	17	13.7	20
LT	58	47.1	40	1570	0.68	10.2	38.2	78	58	39.3	76
NN	28	16.1	26	668	0.91	8.2	12.5	45	29	14.8	46

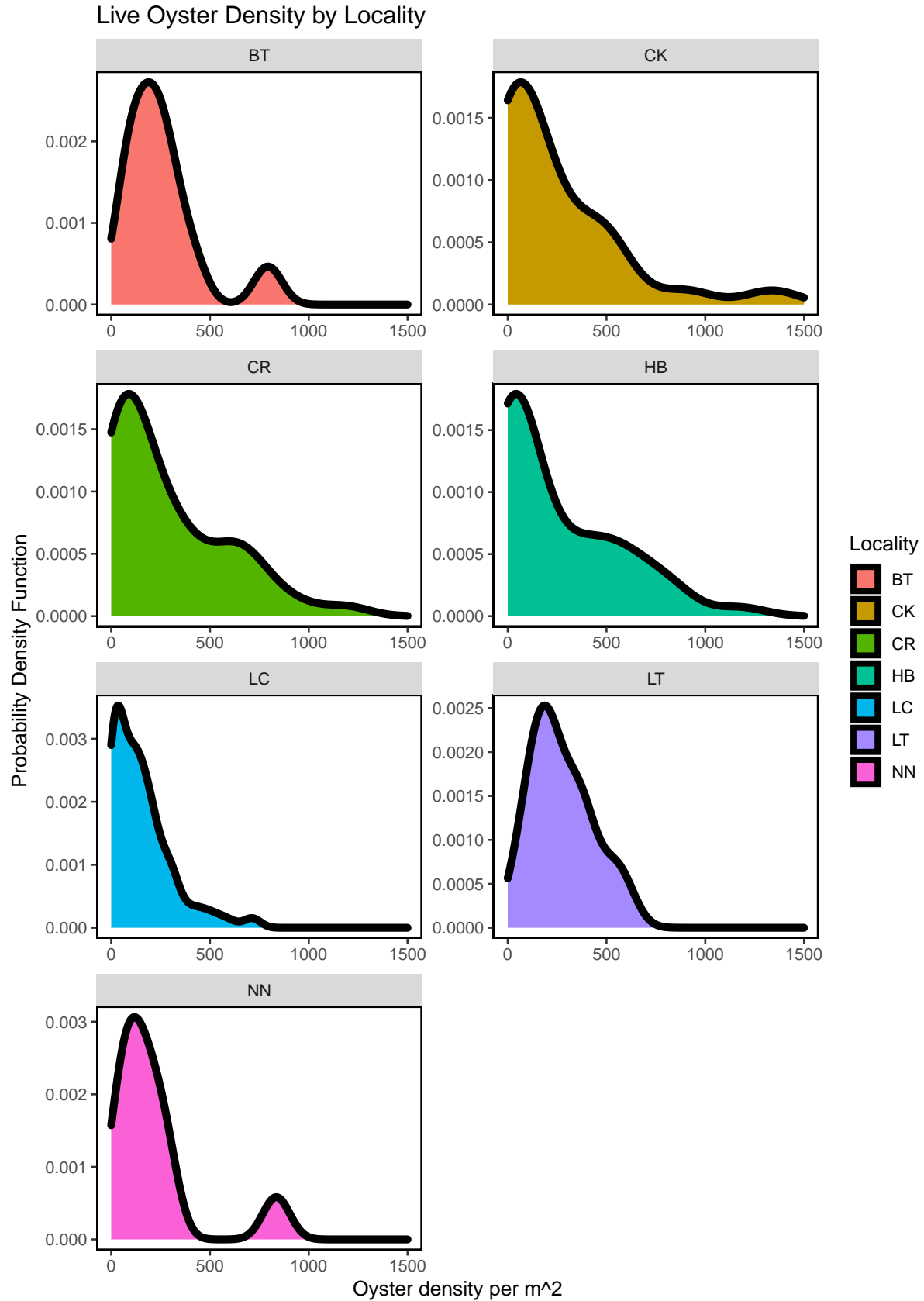
Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	32.6	24.5	32.6	1060	1.00	3.71	25.4	40	32.5	25.6	40
N_PILOT	8.5	8.7	4.5	20	0.53	1.25	6.1	11	8.5	6.5	11
N_Y	5.2	3.8	4.5	21	0.87	0.91	3.4	7	5.2	3.5	7
Y_N	23.3	15.0	24.0	578	1.03	2.67	18.0	29	23.3	18.1	29
Y_Y	8.8	8.6	6.6	43	0.75	1.70	5.5	12	8.8	5.6	12

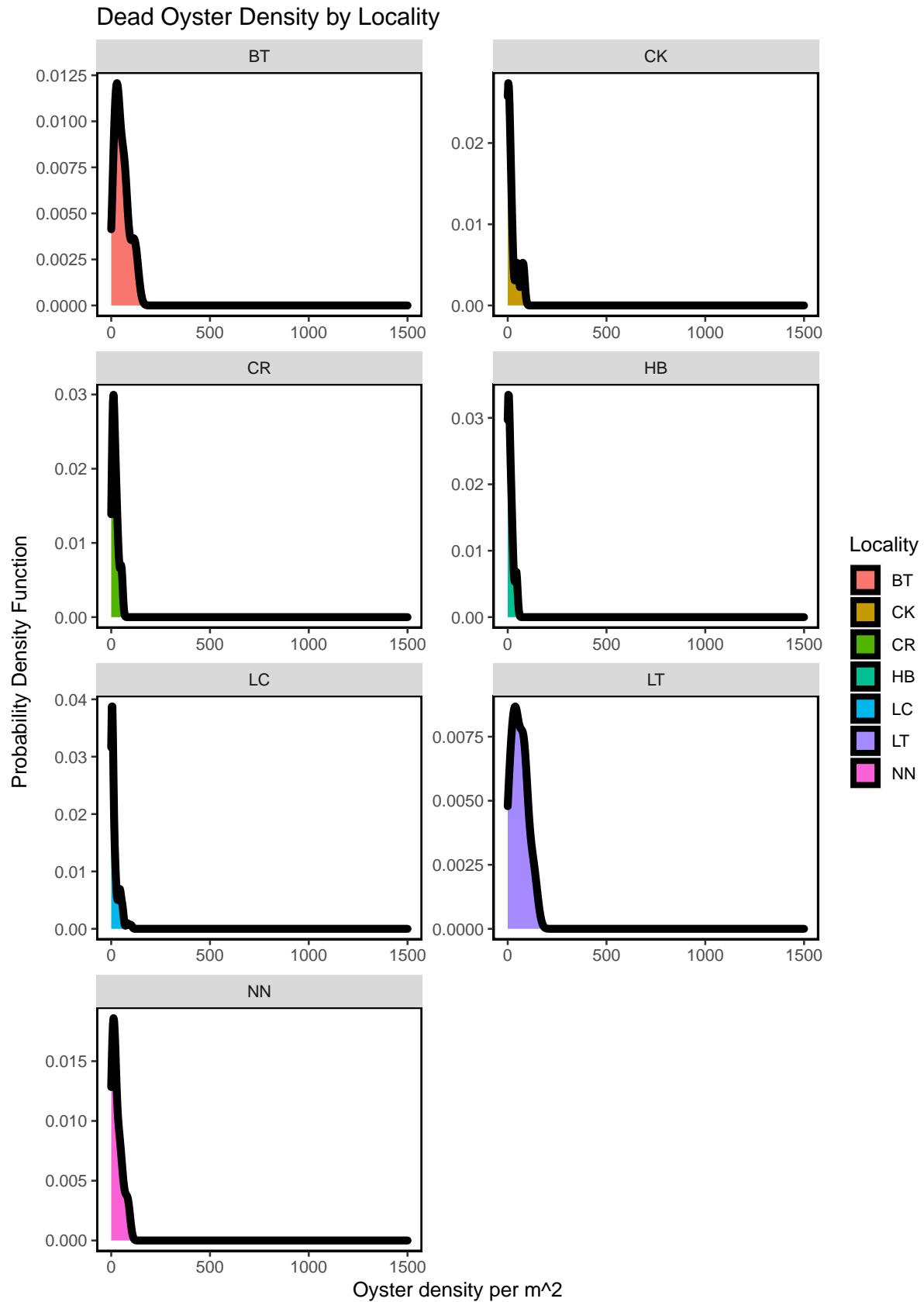
Dead Oyster Density by Period

Period	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
7	2.9	1.8	3.0	8.9	1.03	1.05	0.82	4.9	2.9	1.1	4.8
10	8.2	8.9	6.6	44.0	0.81	2.35	3.58	12.8	8.2	4.2	12.9
11	5.2	4.1	2.6	6.6	0.49	0.91	3.41	7.0	5.2	3.6	6.8
16	4.4	2.8	4.1	16.9	0.93	1.45	1.55	7.2	4.4	2.0	7.1
18	26.4	15.7	31.3	980.1	1.19	4.01	18.54	34.3	26.3	18.6	35.0
19	18.1	13.1	19.3	370.6	1.07	3.30	11.59	24.5	17.9	12.0	24.6
20	27.9	18.4	26.4	697.6	0.95	3.85	20.38	35.5	28.1	20.8	35.9
22	28.9	15.0	29.4	862.1	1.02	4.83	19.40	38.3	28.5	20.0	38.1

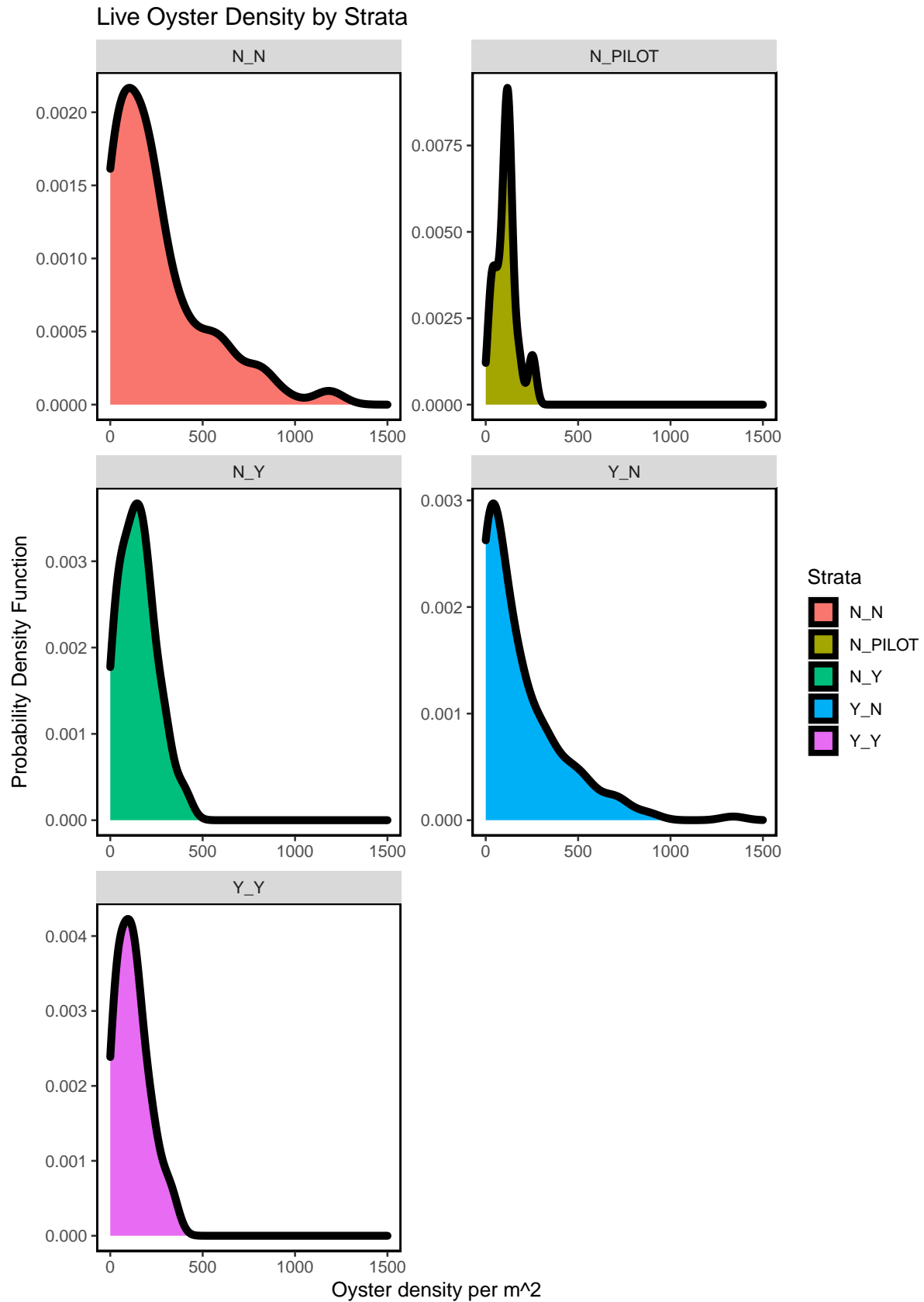
Summary Density Plots for all Periods



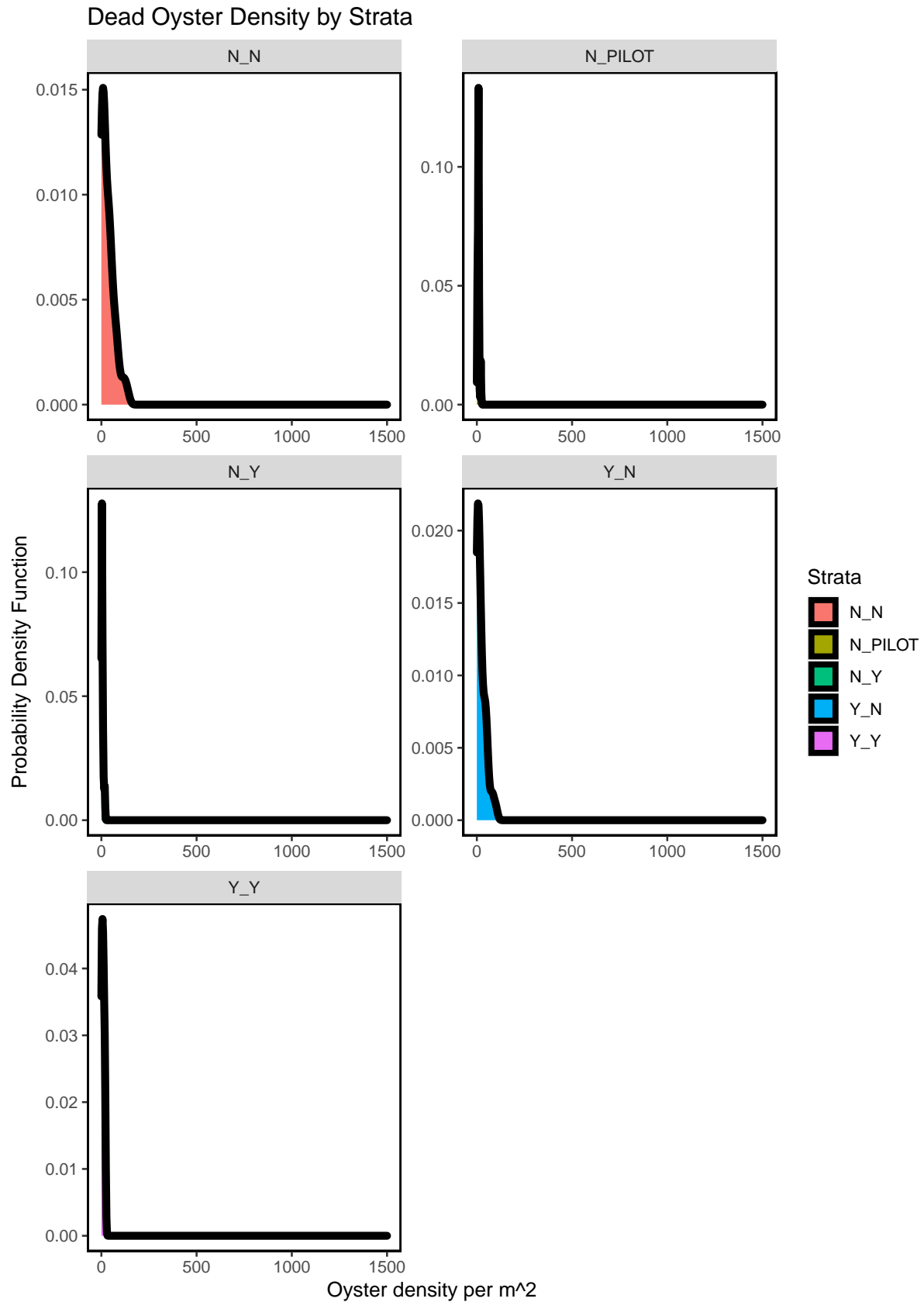
Figure– Calculated live oyster density by locality for all periods including period 22 (current period).



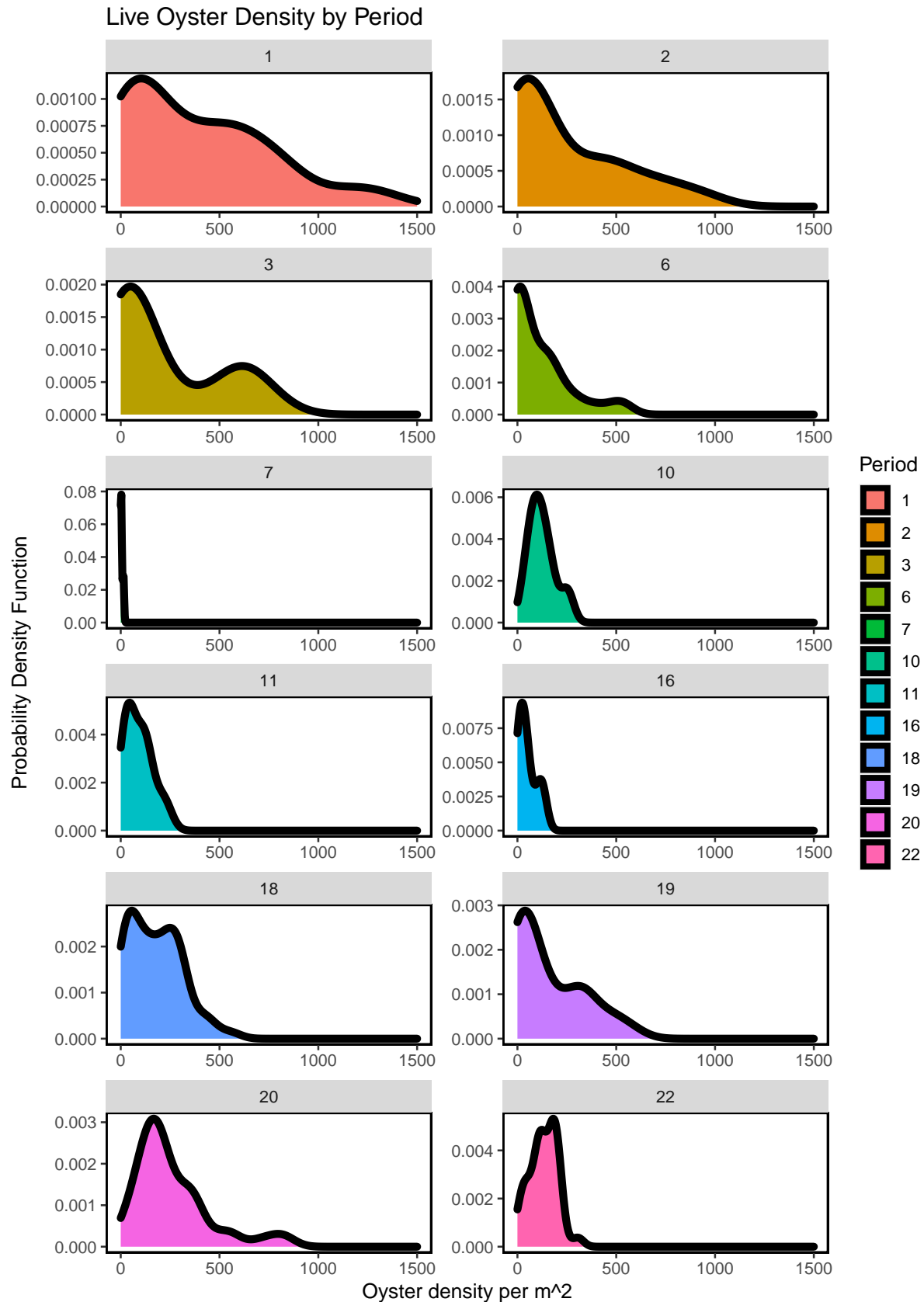
Figure– Calculated dead oyster density by locality for all periods including period 22 (current period).



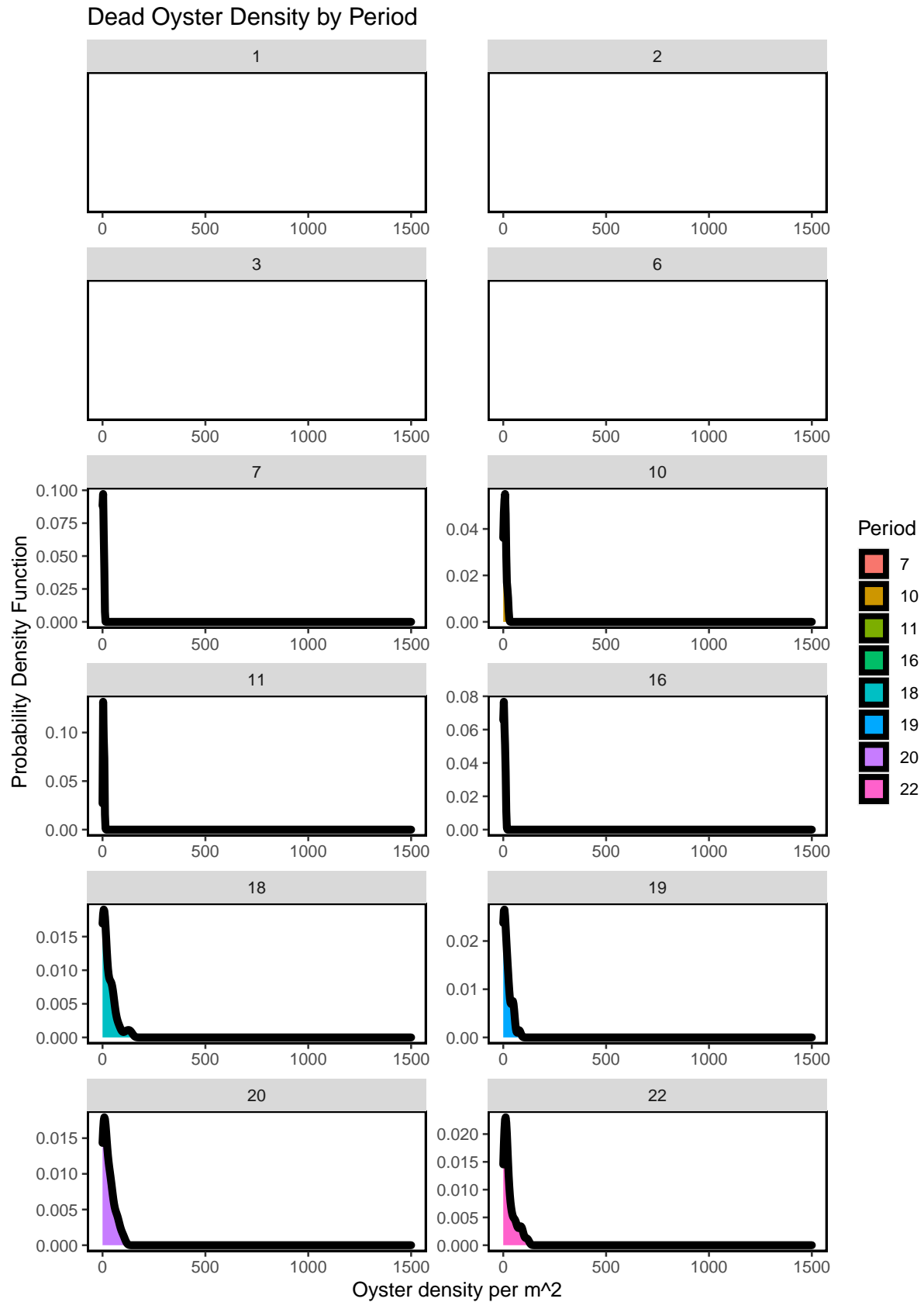
Figure– Calculated live oyster density by strata for all periods including period 22 (current period).



Figure– Calculated dead oyster density by strata for all periods including period 22 (current period).

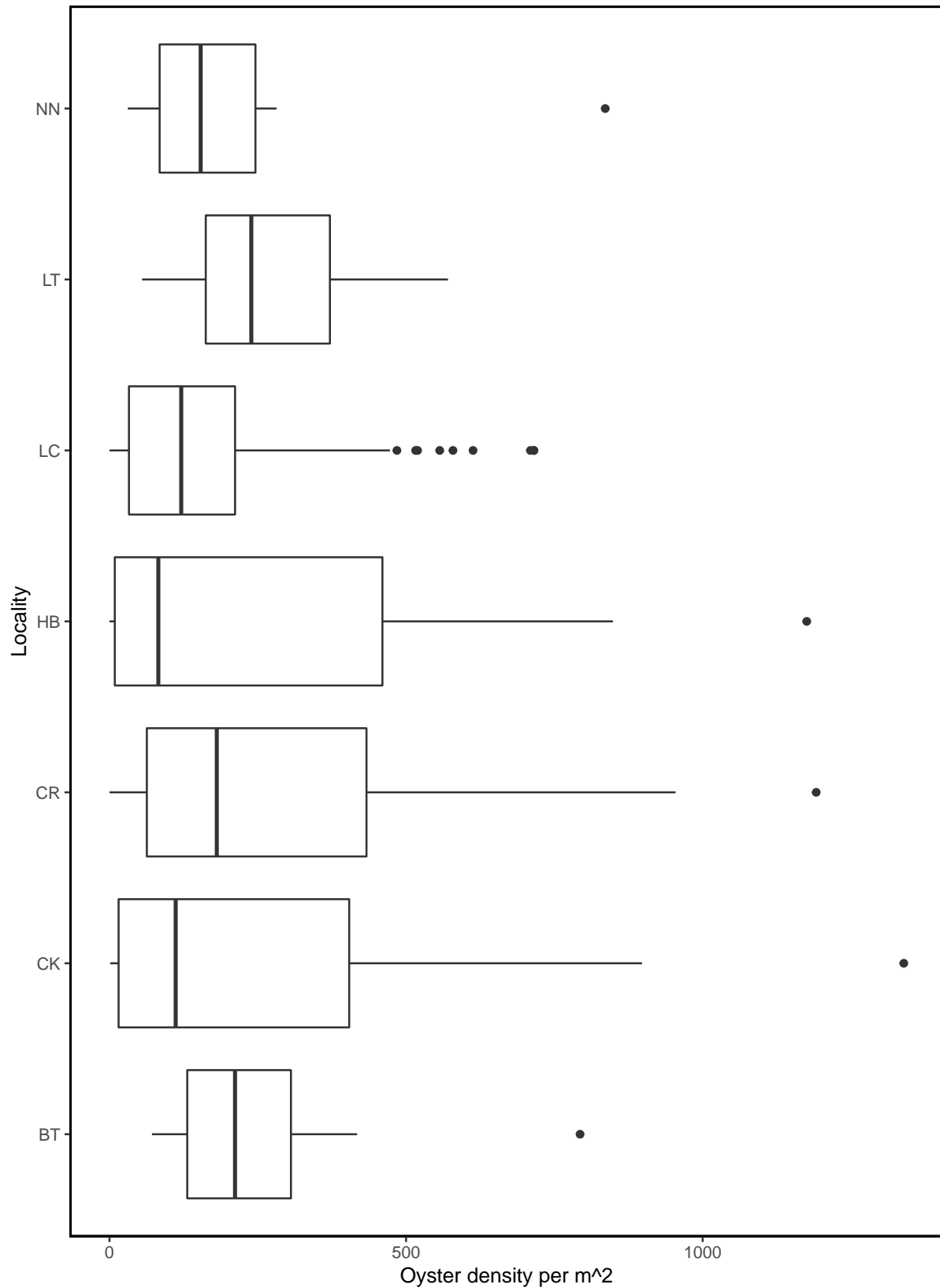


Figure– Calculated live oyster density for all periods including period 22 (current period) using a probability densi



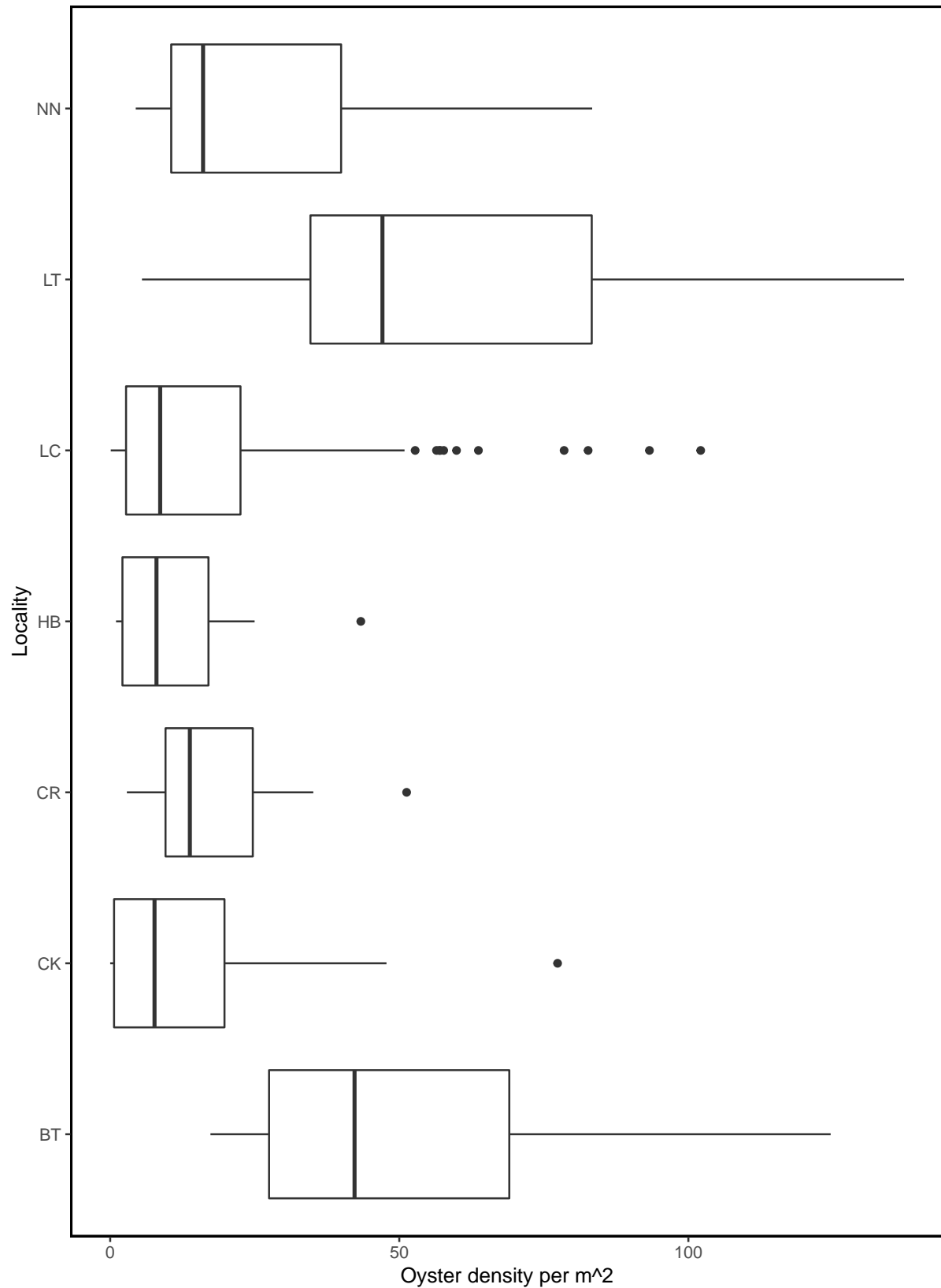
Figure– Calculated Dead oyster density for all periods including period 22 (current period) using a probability densit

Live Oyster Density by Locality

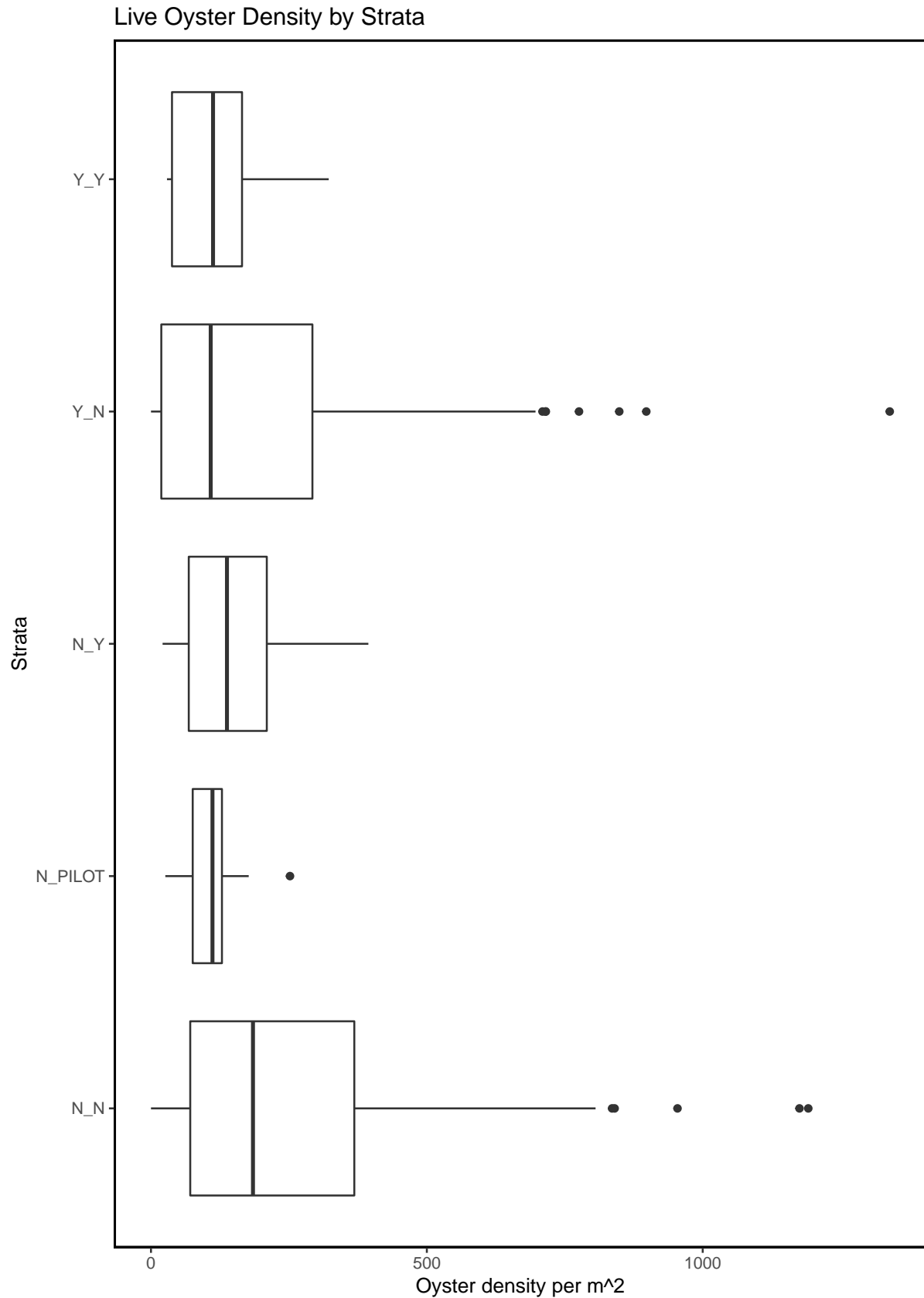


Figure– Box plot depicting live oyster density by locality for all periods including period 22 (current period).

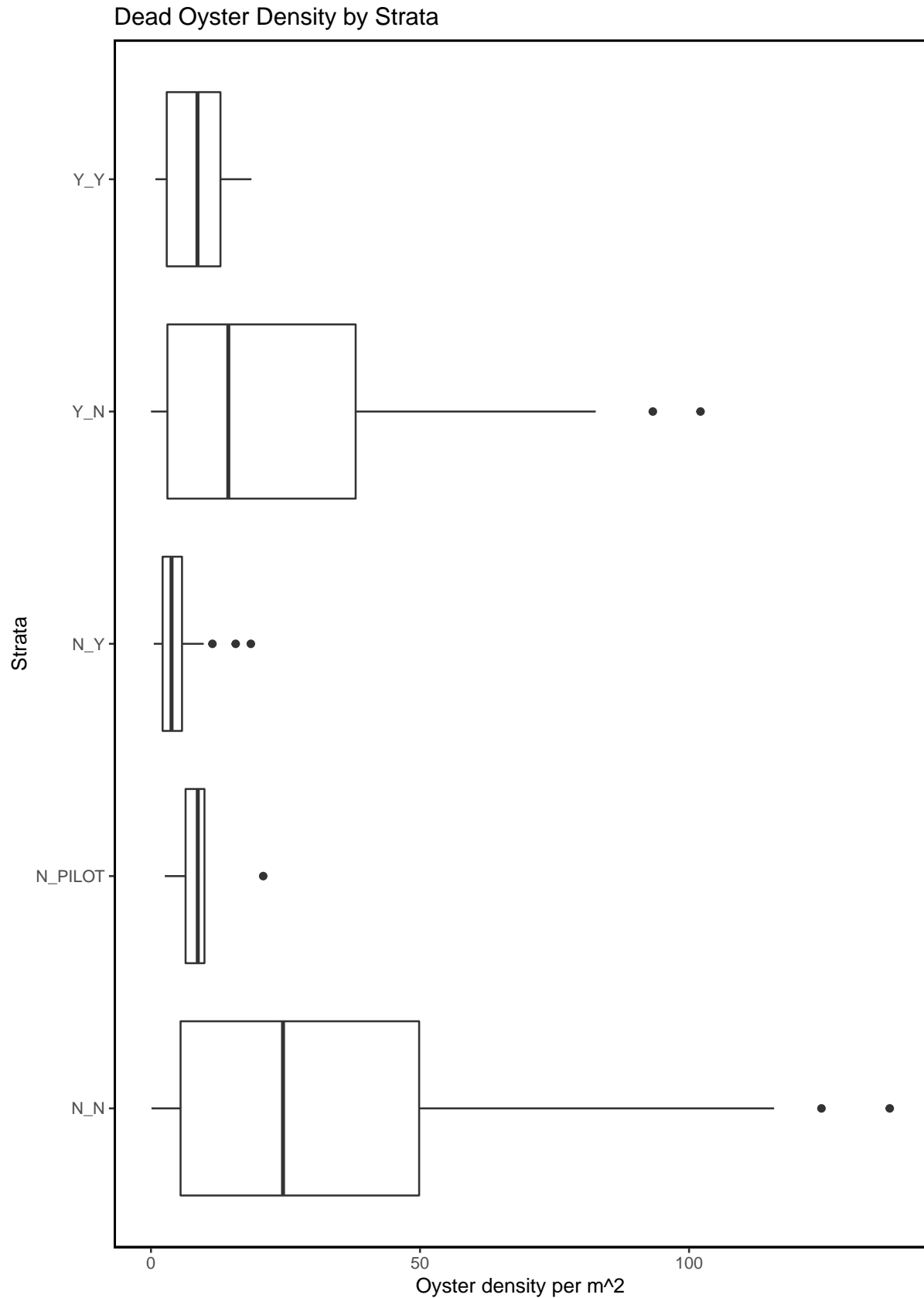
Dead Oyster Density by Locality



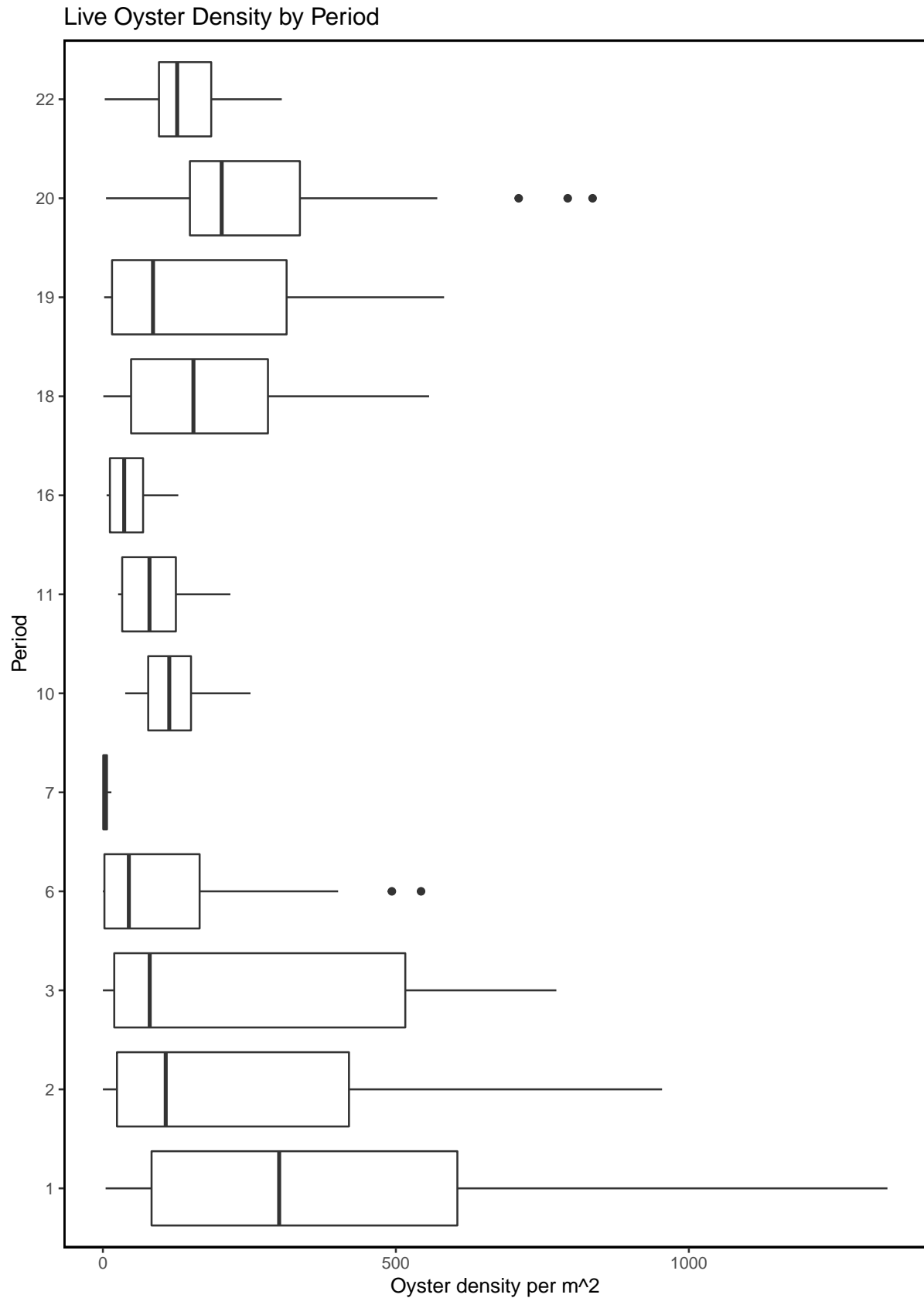
Figure– Box plot depicting dead oyster density by locality for all periods including period 22 (current period).



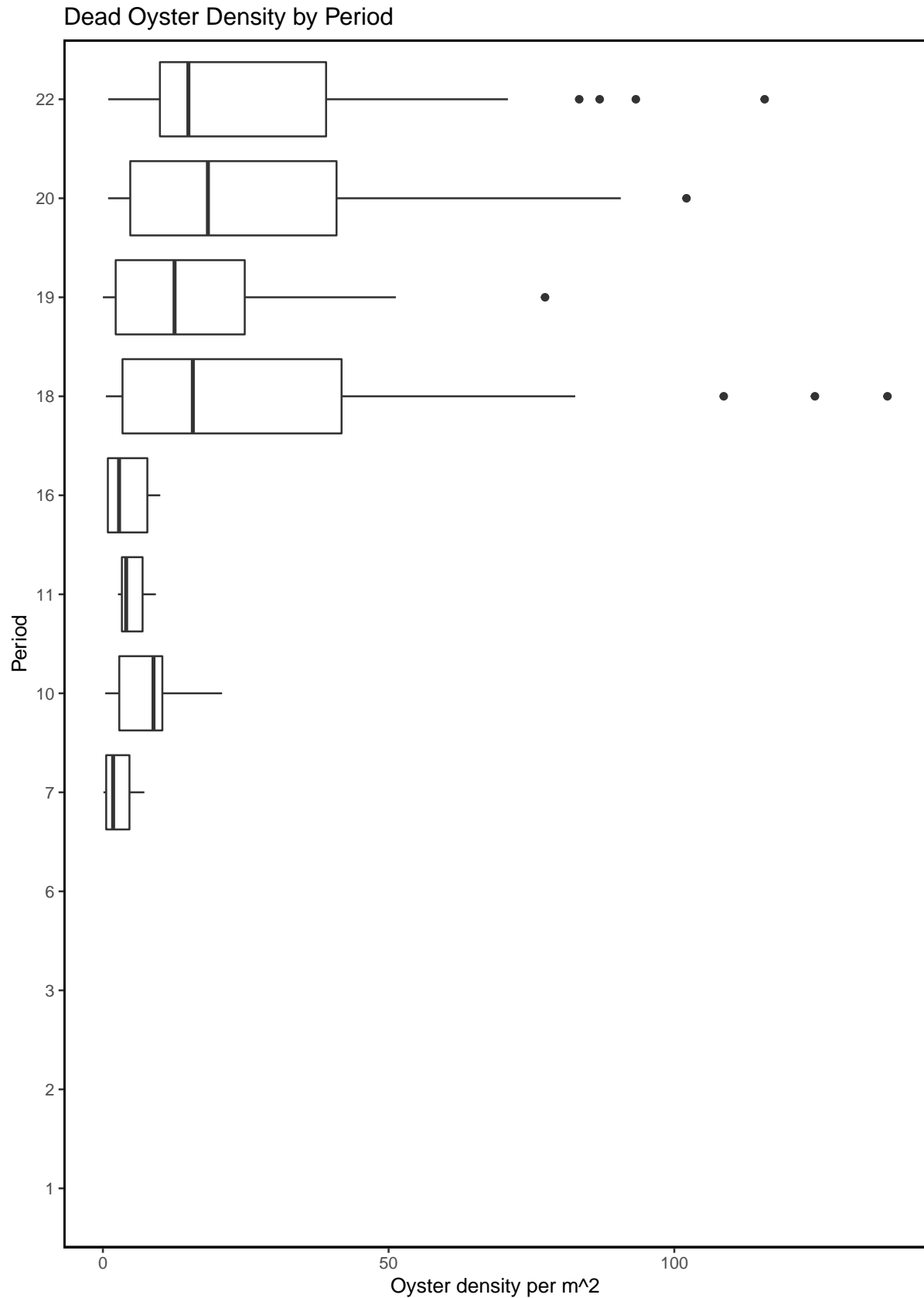
Figure– Box plot depicting live oyster density by strata for all periods including period 22 (current period).



Figure– Box plot depicting dead oyster density by strata for all periods including period 22 (current period).



Figure– Box plot depicting live oyster density by period for all periods including period 22 (current period).



Figure– Box plot depicting dead oyster density by period for all periods including period 22 (current period).

Live Oyster Density by Locality and Period

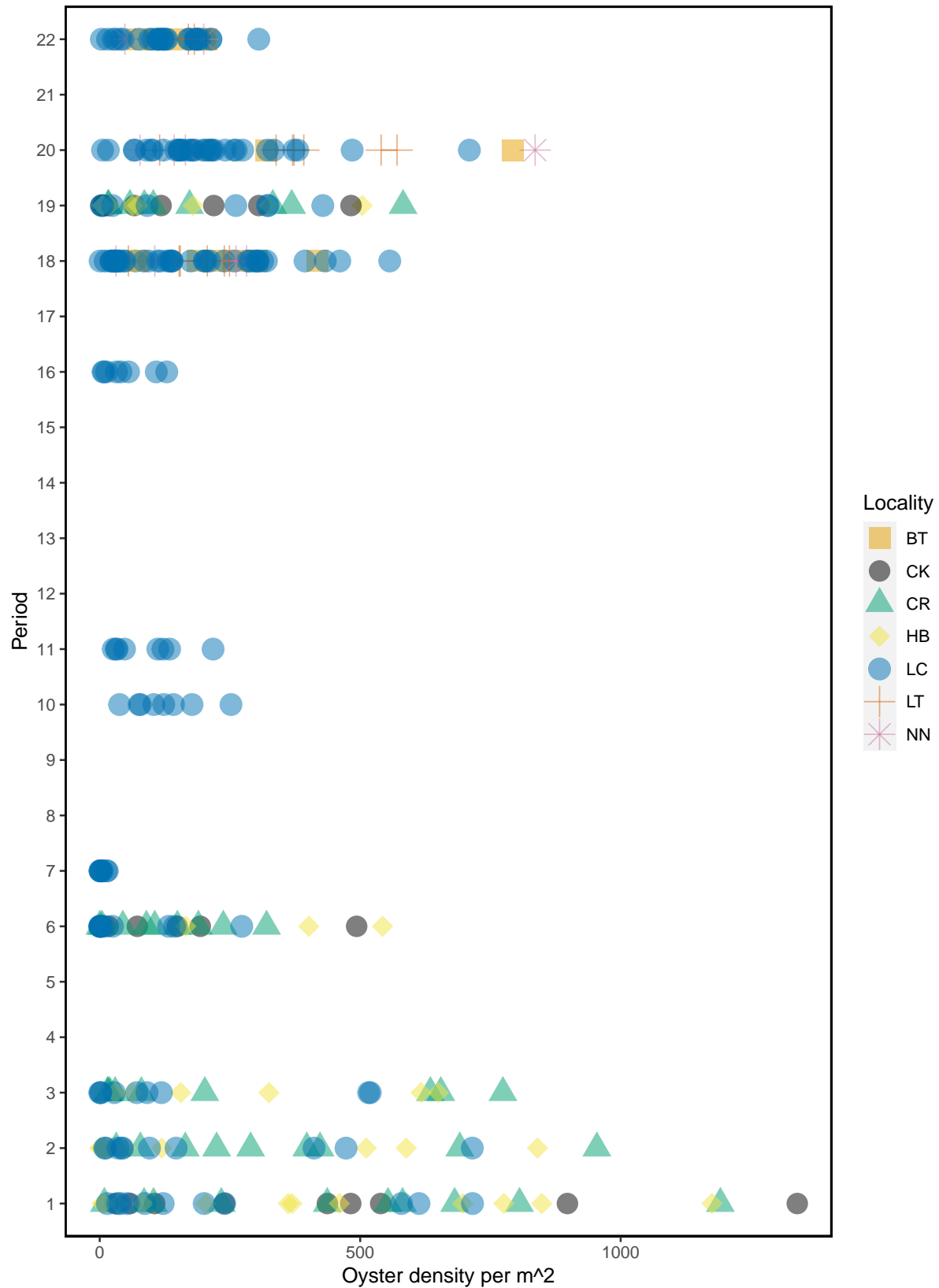


Figure – Live oyster density by locality and period for all periods including period 22 (current period).

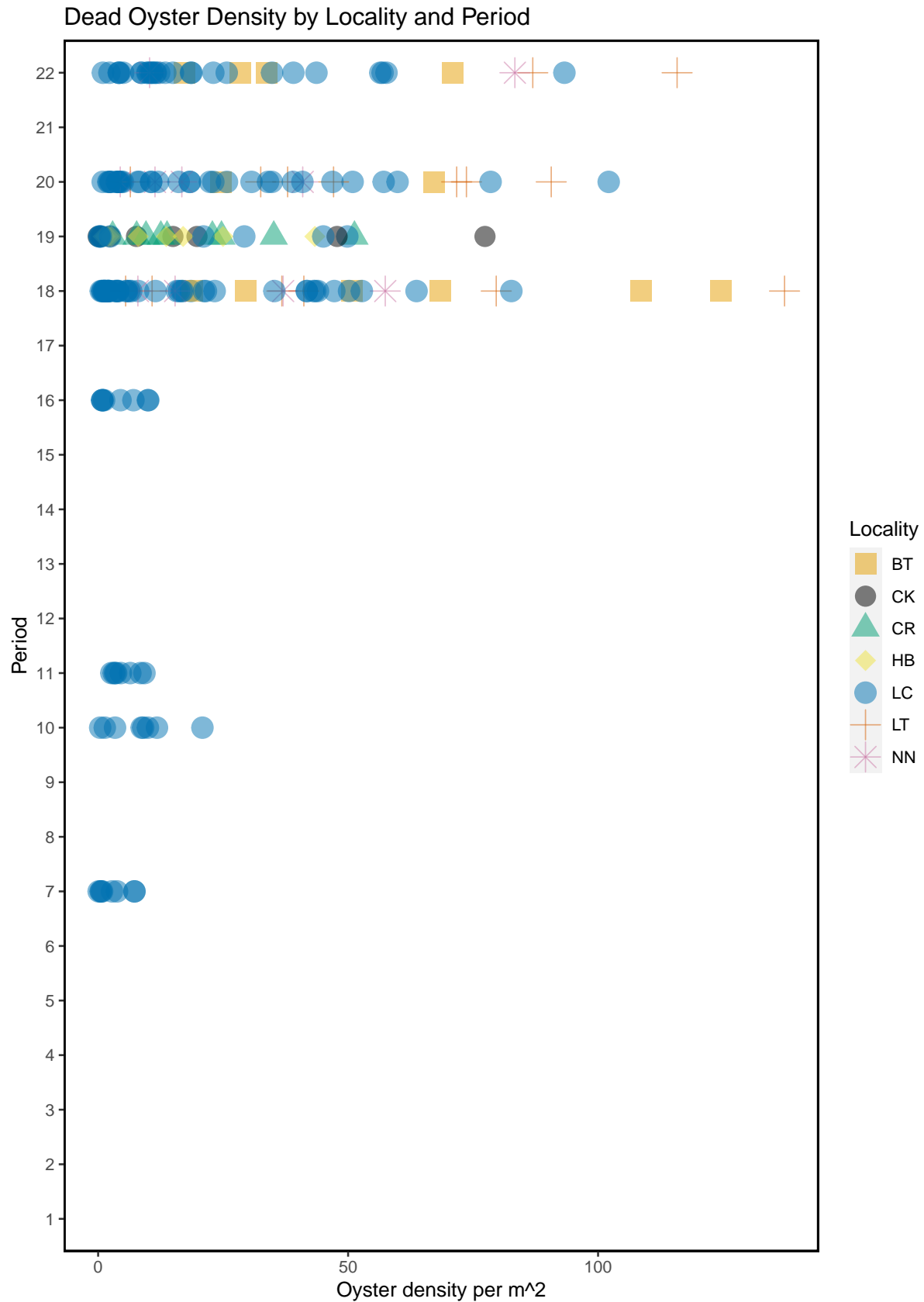


Figure – Dead oyster density by locality and period for all periods including period 22 (current period).

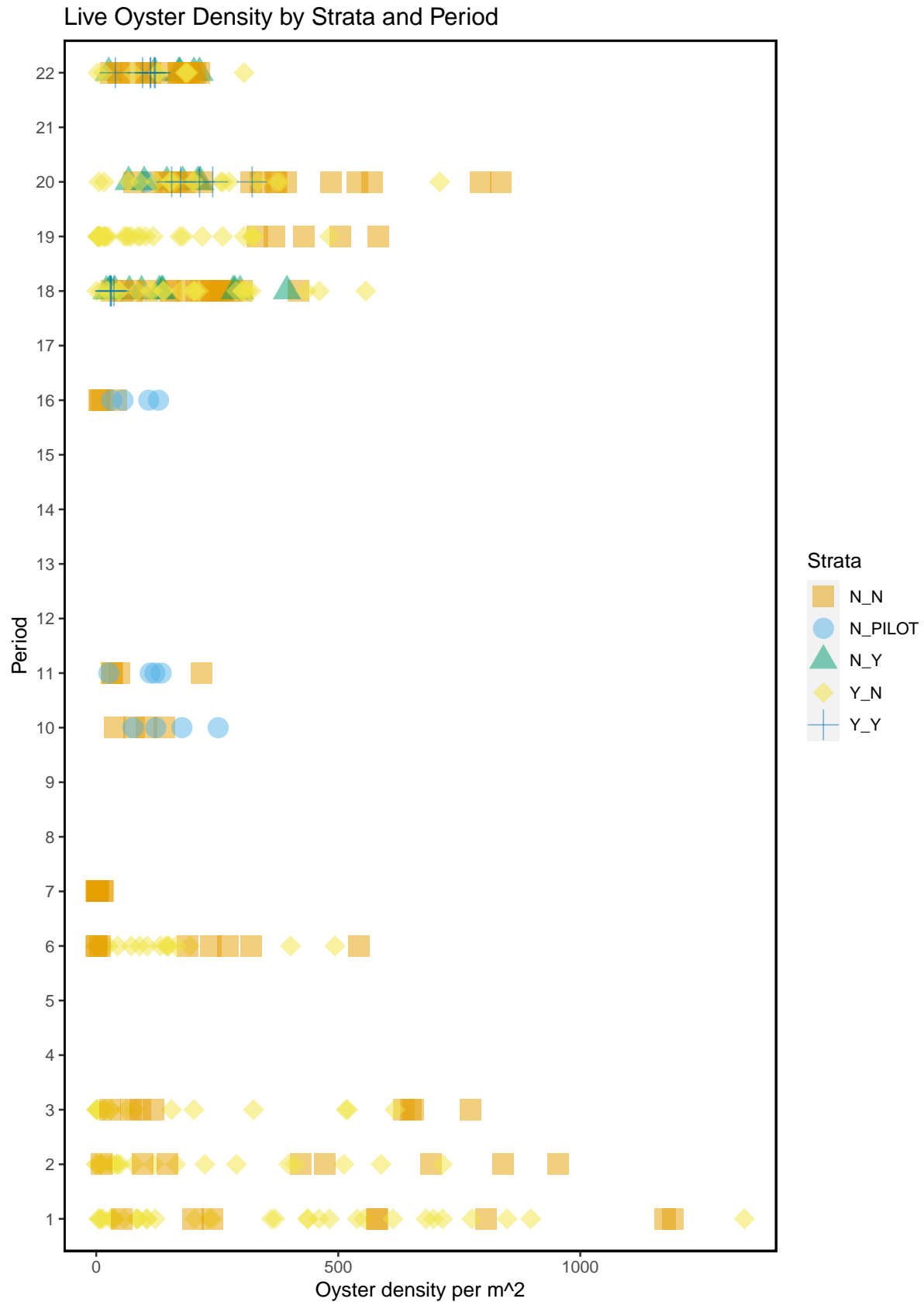


Figure – Live oyster density by strata and period for all periods including period 22 (current period).

Live and Dead Count Comparison For All Periods

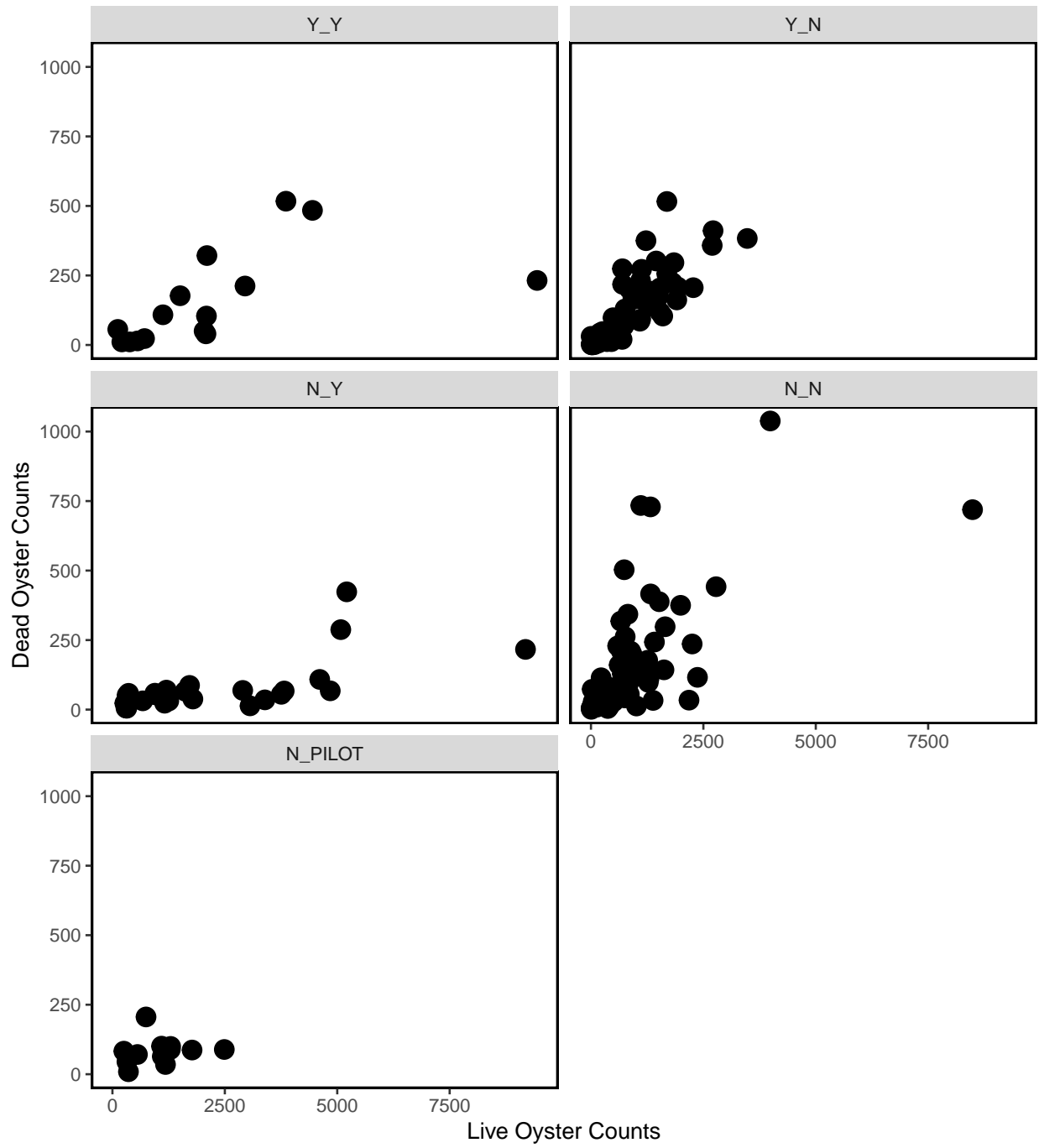


Figure- Live and dead oyster comparison for all periods, last sample date of period 22 is 2021-01-15.

Summary Plots for Pilot Study Sites

A subset of the oyster transect locations were sampled over time for a pilot study. Here we provide plots of live oyster counts and density for these pilot stations with Lone Cabbage (LCO10B, LCO11A, LCO8B, LCO9A).

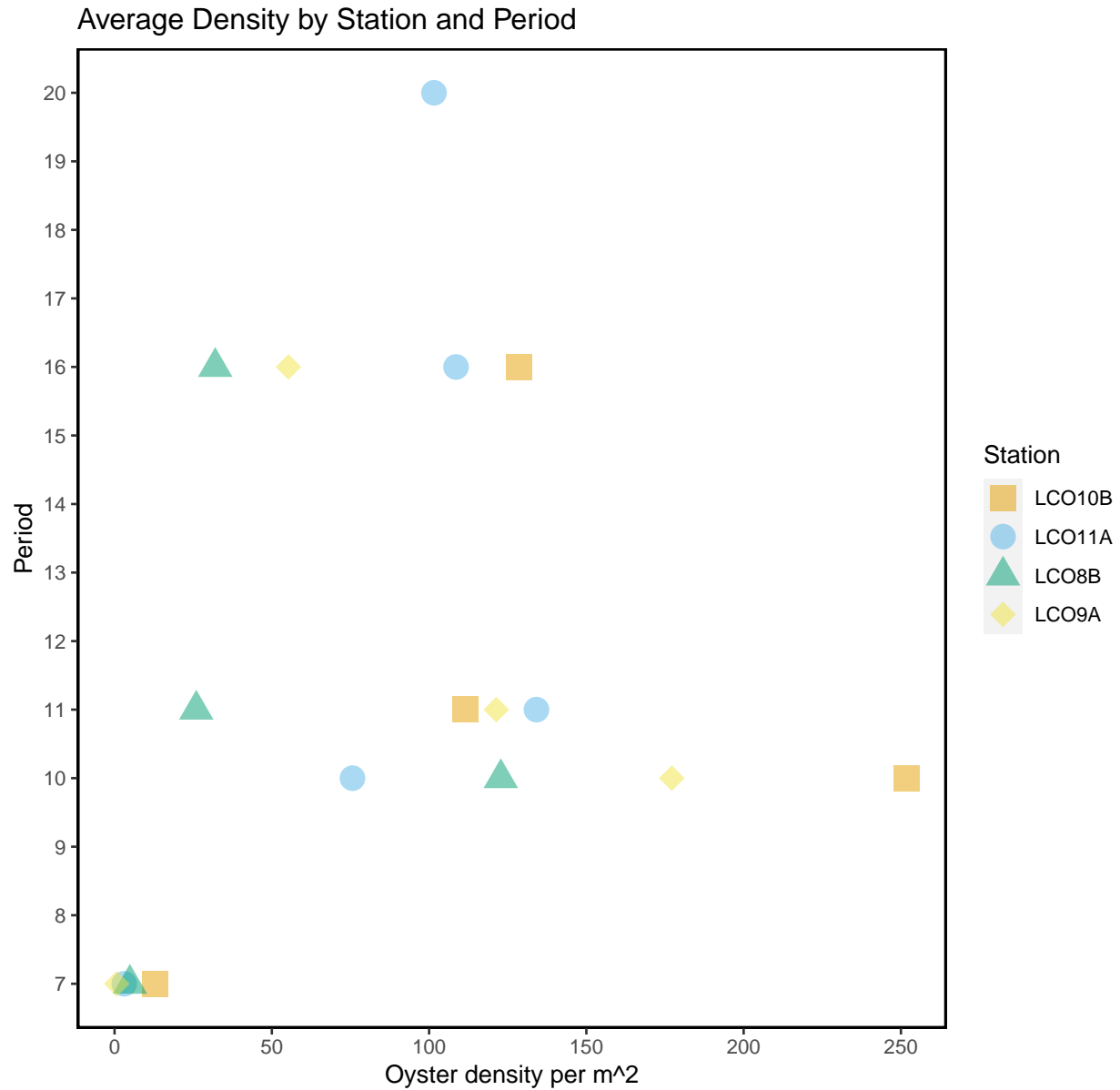


Figure – Average live oyster density comparison by station and period for all stations that were sampled during the pilc

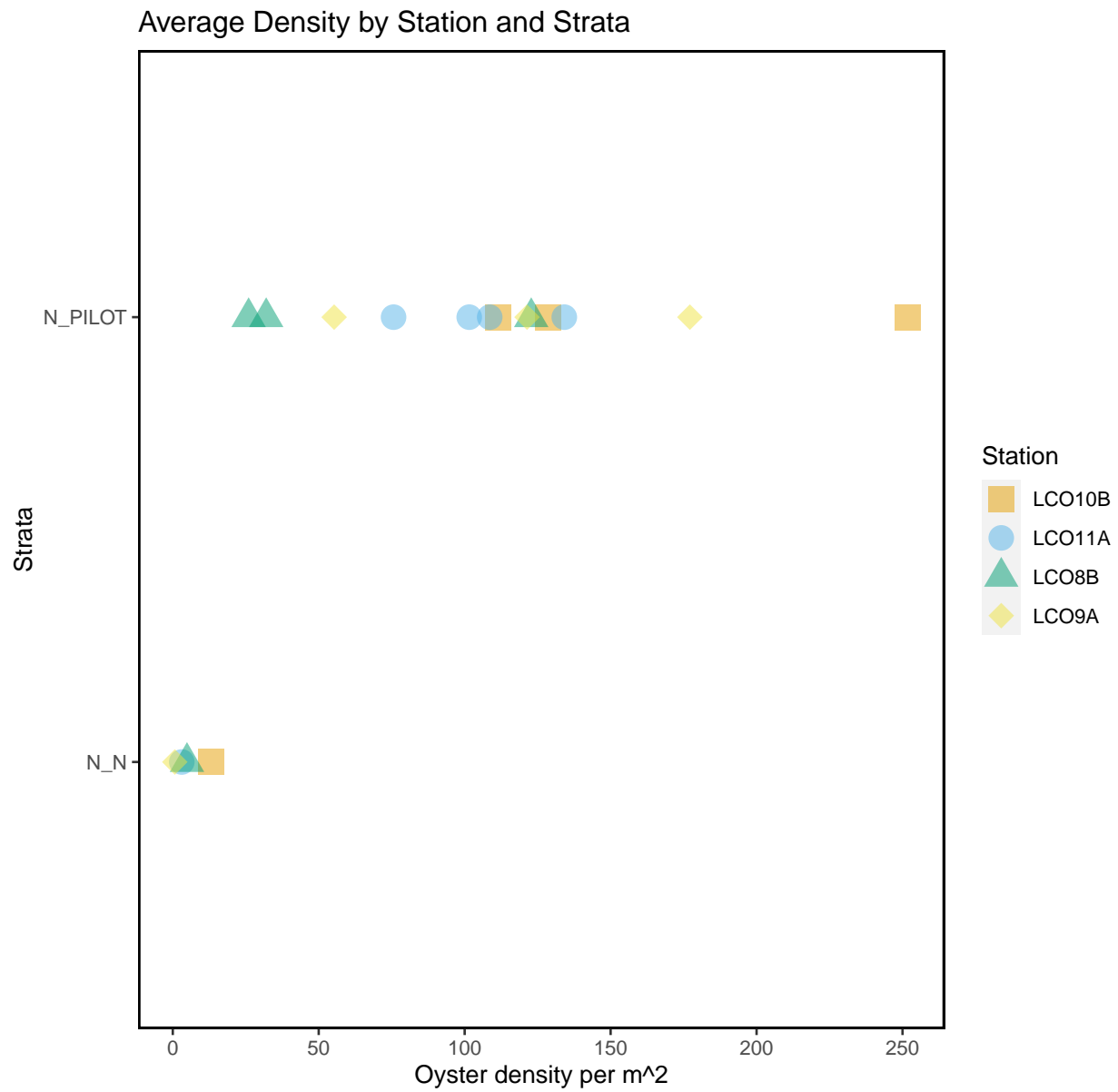


Figure – Average live oyster density comparison by station and strata for all stations that were sampled during the

Latest Data Entered

Displayed are the entries for the last date of sampling (2021-01-15).

date	station	tran_length	count_live	count_dead	treatment	strata
2021-01-15	LCI38	2.5	171	13	control	N_N
2021-01-15	LCI38	5.0	0	0	control	N_N
2021-01-15	LCI38	7.5	0	0	control	N_N
2021-01-15	LCI38	10.0	114	43	control	N_N
2021-01-15	LCI38	12.5	107	14	control	N_N
2021-01-15	LCI38	14.9	45	9	control	N_N
2021-01-15	LCI39	2.5	92	13	control	N_N
2021-01-15	LCI39	5.0	110	1	control	N_N
2021-01-15	LCI39	7.5	14	3	control	N_N
2021-01-15	LCI39	10.0	24	1	control	N_N
2021-01-15	LCI39	12.5	44	1	control	N_N
2021-01-15	LCI39	15.0	4	1	control	N_N
2021-01-15	LCI39	17.5	49	5	control	N_N
2021-01-15	LCI39	19.8	44	2	control	N_N