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 2021-2022) and how the collected data compare to last year's sampling (Winter 2020-2021). So far 0 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, 118 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 24, and last year's sampling period is period 22.**

Summary Tables for Periods 18, 20, 22, and 24

These summary tables provide summary statistics on live counts and oyster densities for just periods **18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022).**

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, 22, and 24

Live Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	1665	897	2257	5094708	1.36	626	438	2892	1671	768	3020
LC	1412	854	1719	2953527	1.22	160	1099	1725	1416	1132	1712
LT	1051	877	607	368075	0.58	147	762	1339	1058	810	1331
NN	786	727	649	420847	0.83	196	403	1169	788	466	1181

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	1104	818	1219	1486772	1.10	163	785	1424	1104	839	1455
N_PILOT	356	356	NA	NA	NA	NA	NA	NA	177	6	344
N_Y	2337	1436	2128	4529713	0.91	402	1548	3125	2312	1604	3110
Y_N	845	694	777	603969	0.92	102	645	1045	850	660	1049
Y_Y	2524	1772	2954	8726548	1.17	790	976	4071	2490	1226	4095

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	975	753	1234
20	1844	1253	2125	4517189	1.15	310	1236	2451	1835	1307	2461
22	1334	702	1693	2867783	1.27	242	860	1808	1350	911	1827

Live Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	262	218	190	36278	0.73	53	158	365	260	173	380
LC	165	148	128	16298	0.78	12	141	188	165	143	186
LT	278	249	143	20392	0.51	35	210	346	277	214	345
NN	224	164	224	50174	1.00	68	92	356	223	122	363

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	238	202	165	27289	0.69	22	195	282	238	199	284
N_PILOT	102	102	NA	NA	NA	NA	NA	NA	51	3	99
N_Y	142	125	95	9027	0.67	18	106	177	141	107	176
Y_N	184	167	150	22472	0.82	20	145	222	184	147	222
Y_Y	116	97	93	8707	0.81	25	67	164	114	71	164

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	177	146	211
20	258	203	188	35185	0.73	27	204	312	258	206	312
22	138	121	93	8671	0.68	13	112	164	138	110	165

Summary of Dead Counts for Periods 18, 20, 22, and 24

Dead Oyster Counts by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	313	169	317	100240	1.01	88	141	485	314	176	485
LC	131	70	150	22448	1.15	14	103	158	131	105	159
LT	240	210	193	37090	0.80	47	148	331	239	162	331
NN	104	74	96	9216	0.92	29	48	161	104	57	162

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	206	136	208	43319	1.01	28	152	261	207.2	158	264
N_PILOT	9	9	NA	NA	NA	NA	NA	NA	5.1	1	9
N_Y	96	59	108	11604	1.12	20	56	136	96.6	61	138
Y_N	127	83	125	15698	0.99	16	94	159	126.7	97	161
Y_Y	205	80	288	82752	1.40	77	54	356	201.5	75	346

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	135	91	187
20	148	107	140	19727	0.95	20	108	188	148	110	190
22	191	128	193	37399	1.01	28	137	245	191	142	253

Dead Oyster Density by Locality

Locality	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
BT	52	39	34	1162	0.65	9.5	34	71	53	36	72
LC	20	11	22	484	1.10	2.0	16	24	20	16	24
LT	59	50	38	1426	0.64	9.2	42	77	59	42	77
NN	29	17	25	602	0.85	7.4	14	43	29	16	44

Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	43.9	37.5	32.5	1054	0.74	4.34	35.4	52.4	43.6	35.8	51.8
N_PILOT	2.6	2.6	NA	NA	NA	NA	NA	NA	1.5	1.0	2.0
N_Y	5.8	4.0	4.6	21	0.80	0.87	4.1	7.4	5.7	4.2	7.5
Y_N	27.4	21.4	25.6	655	0.94	3.36	20.8	33.9	27.4	21.1	33.7
Y_Y	8.4	7.7	6.5	42	0.77	1.73	5.0	11.8	8.5	5.4	11.7

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	34
20	28	18	26	698	0.95	3.9	20	35	28	21	35
22	29	14	29	822	1.00	4.1	21	37	29	21	37

Summary Plots for Periods 18, 20, 22, and 24

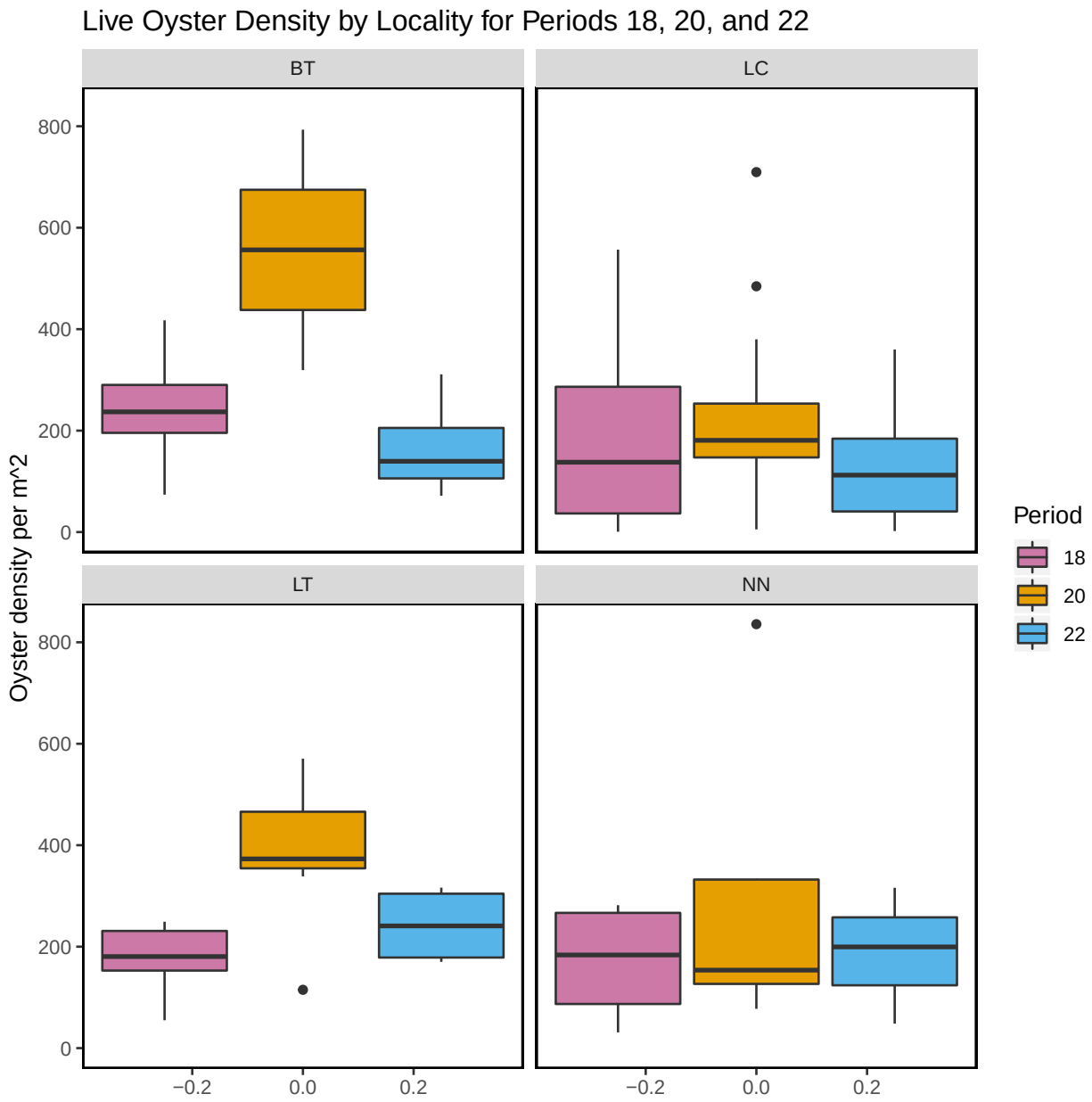


Figure- Calculated live oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-02-26.

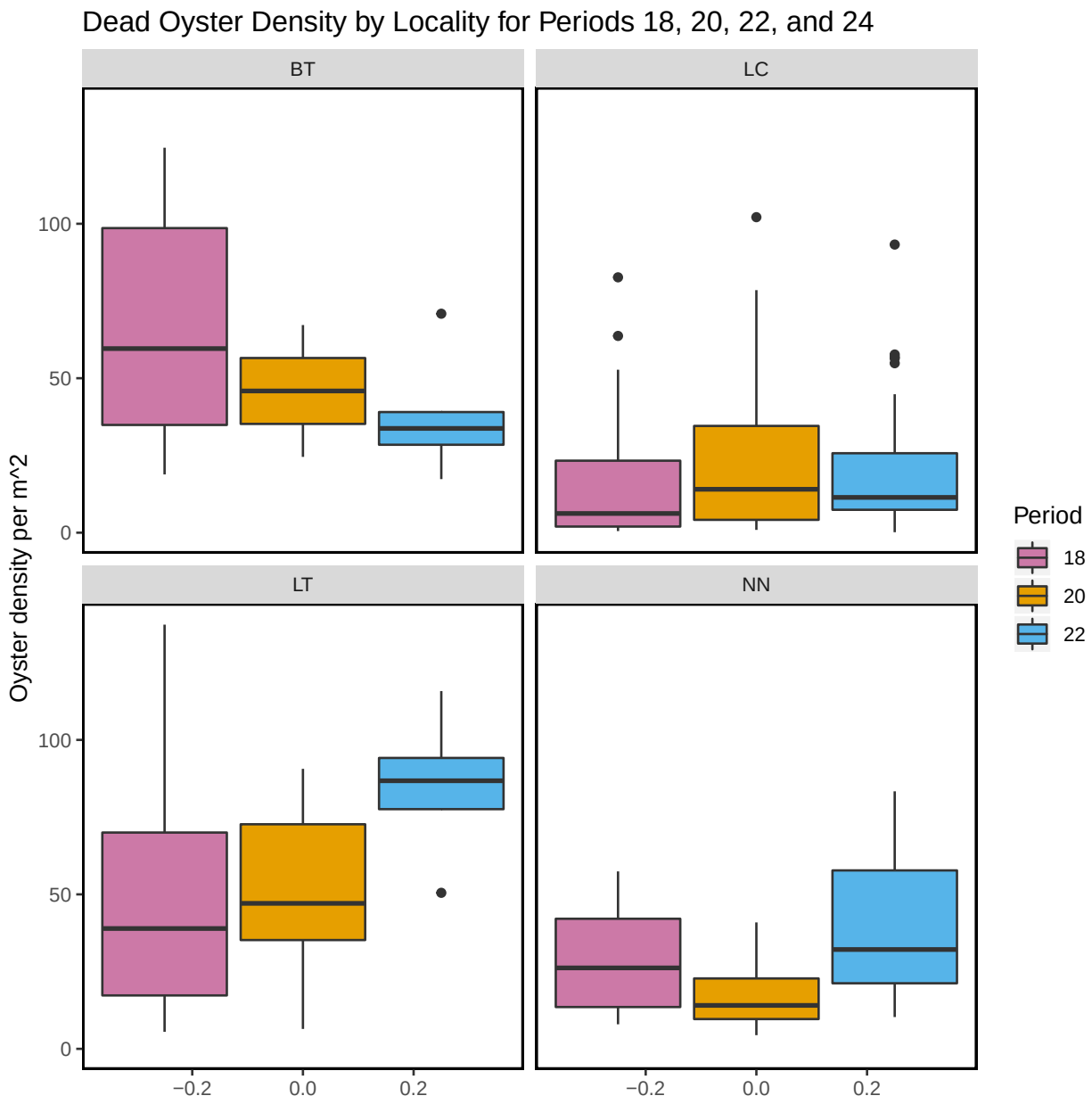


Figure- Calculated dead oyster density by locality for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-02-26.

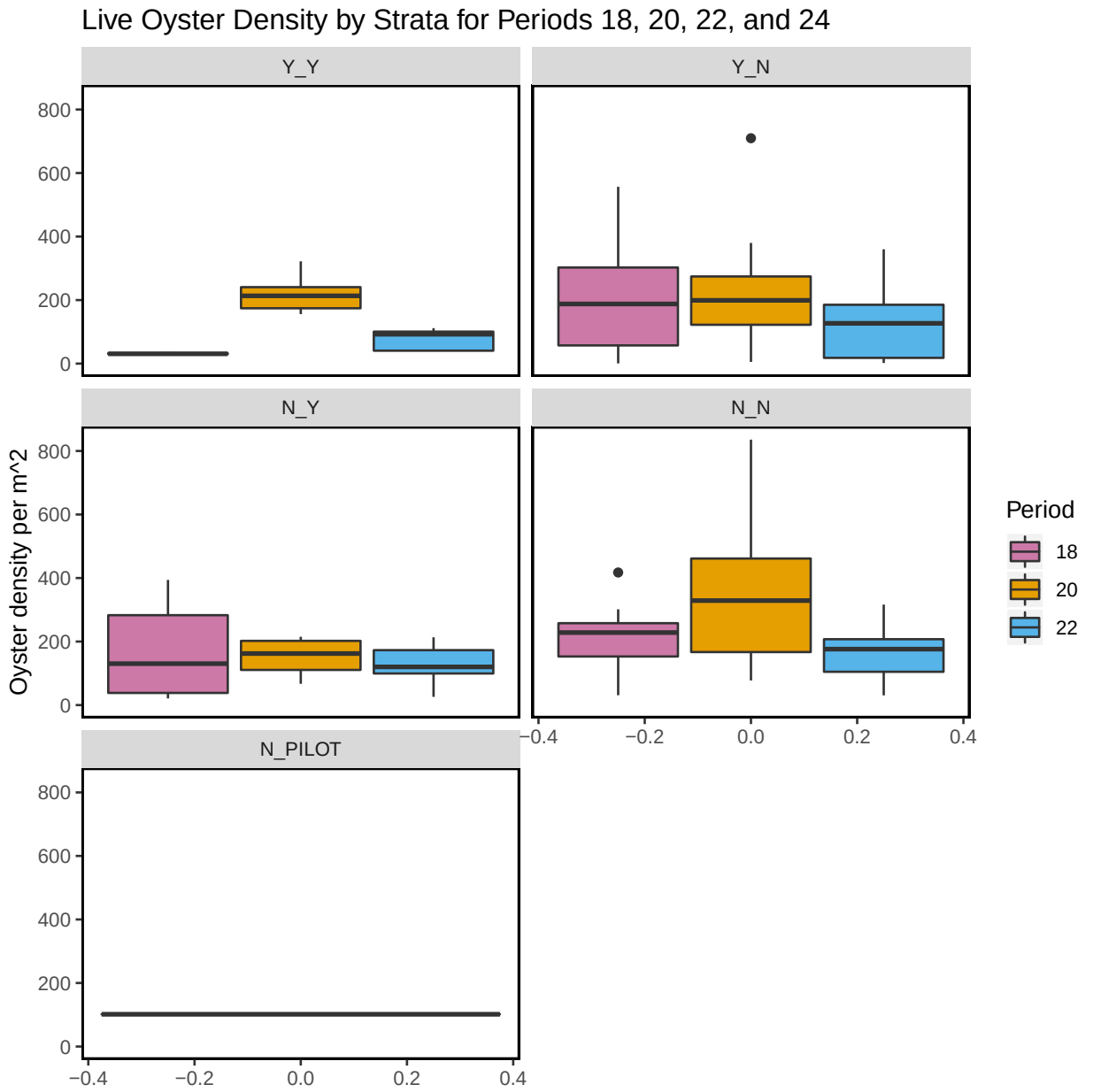


Figure- Calculated live oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-02-26.

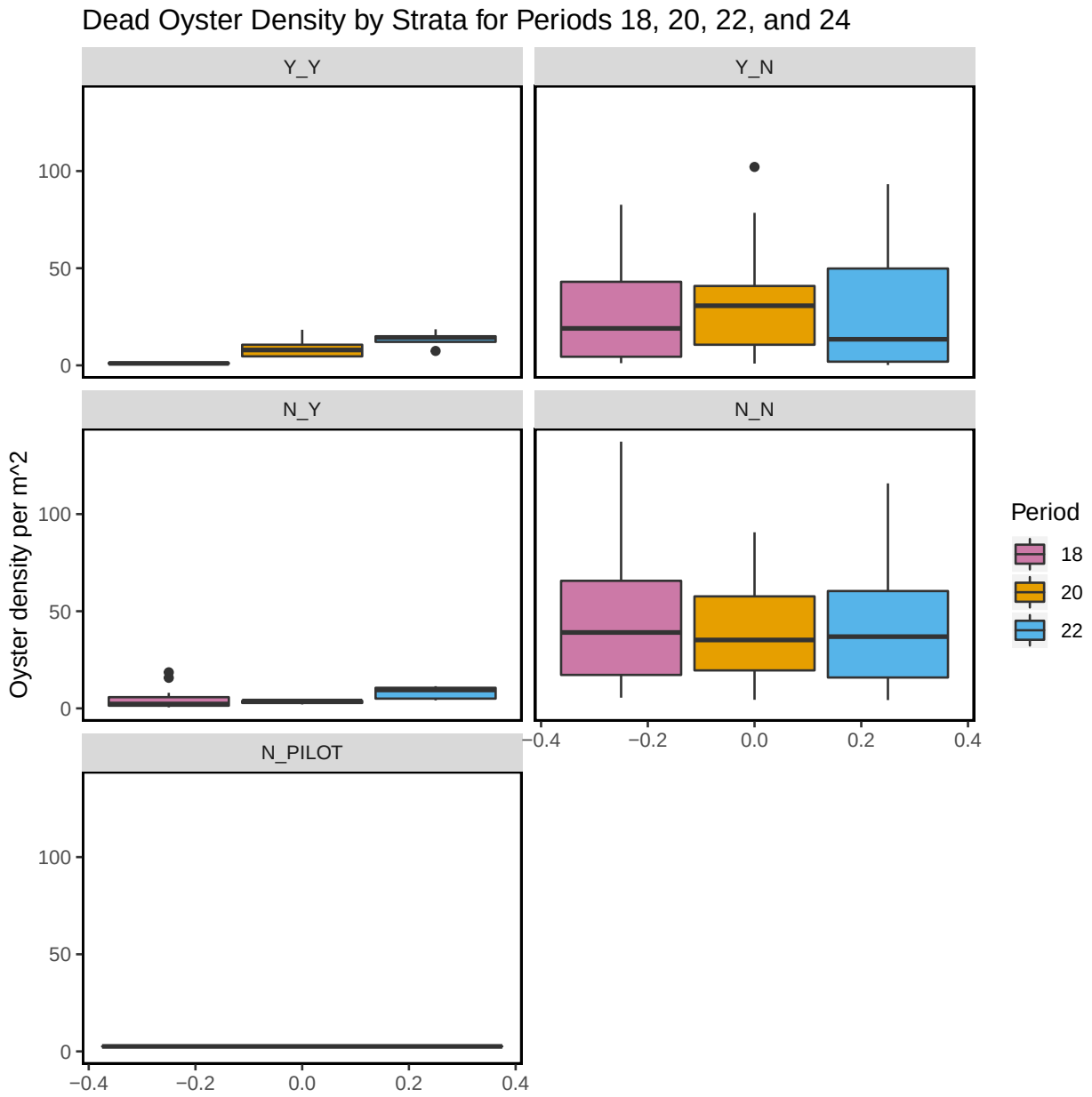


Figure- Calculated dead oyster density by strata for periods 18 (Winter 2018-2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021), and 24 (Winter 2021-2022) with the last sample date of period 24 as 2021-02-26.

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.

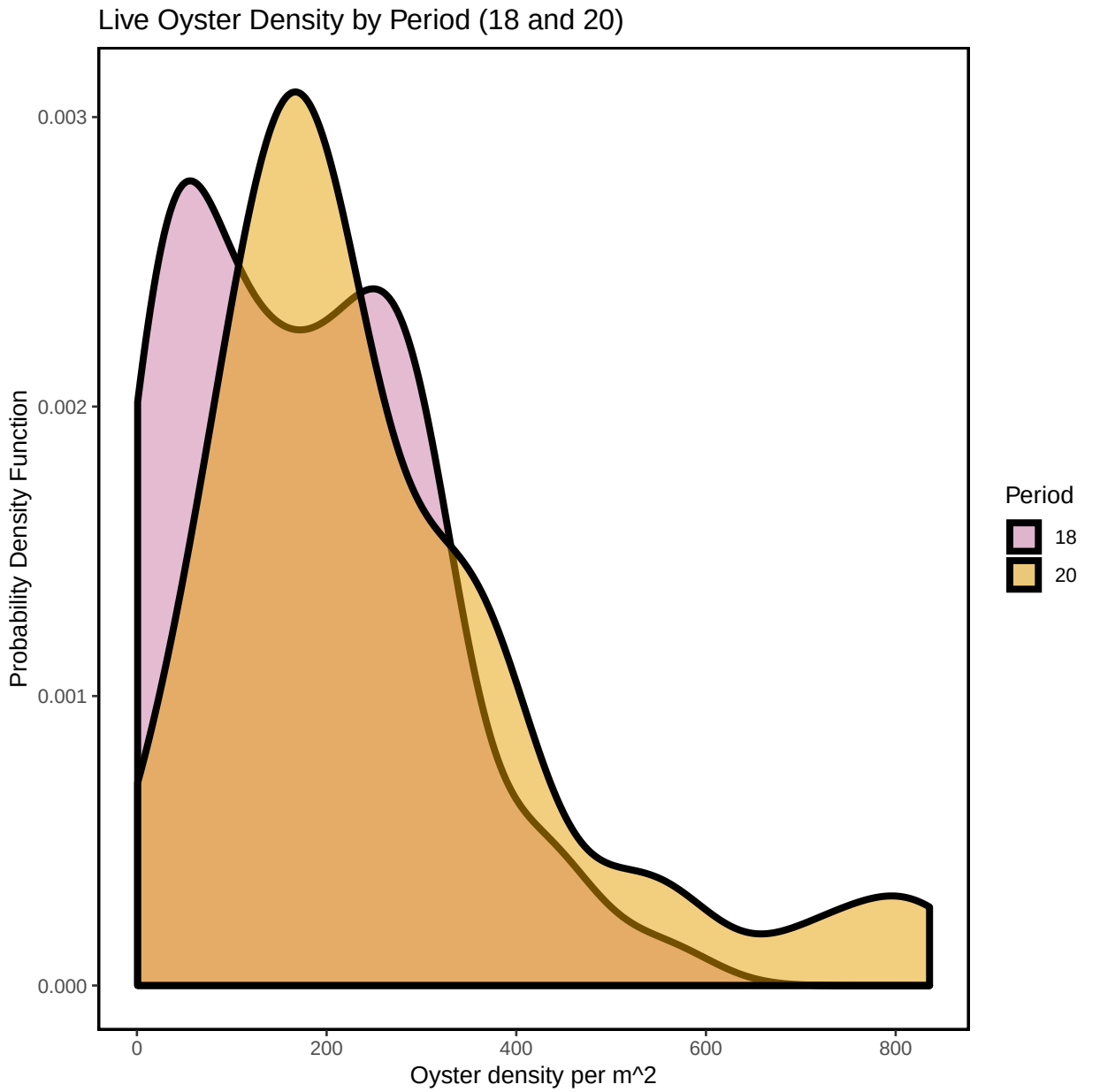


Figure- Calculated live oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-02-26.

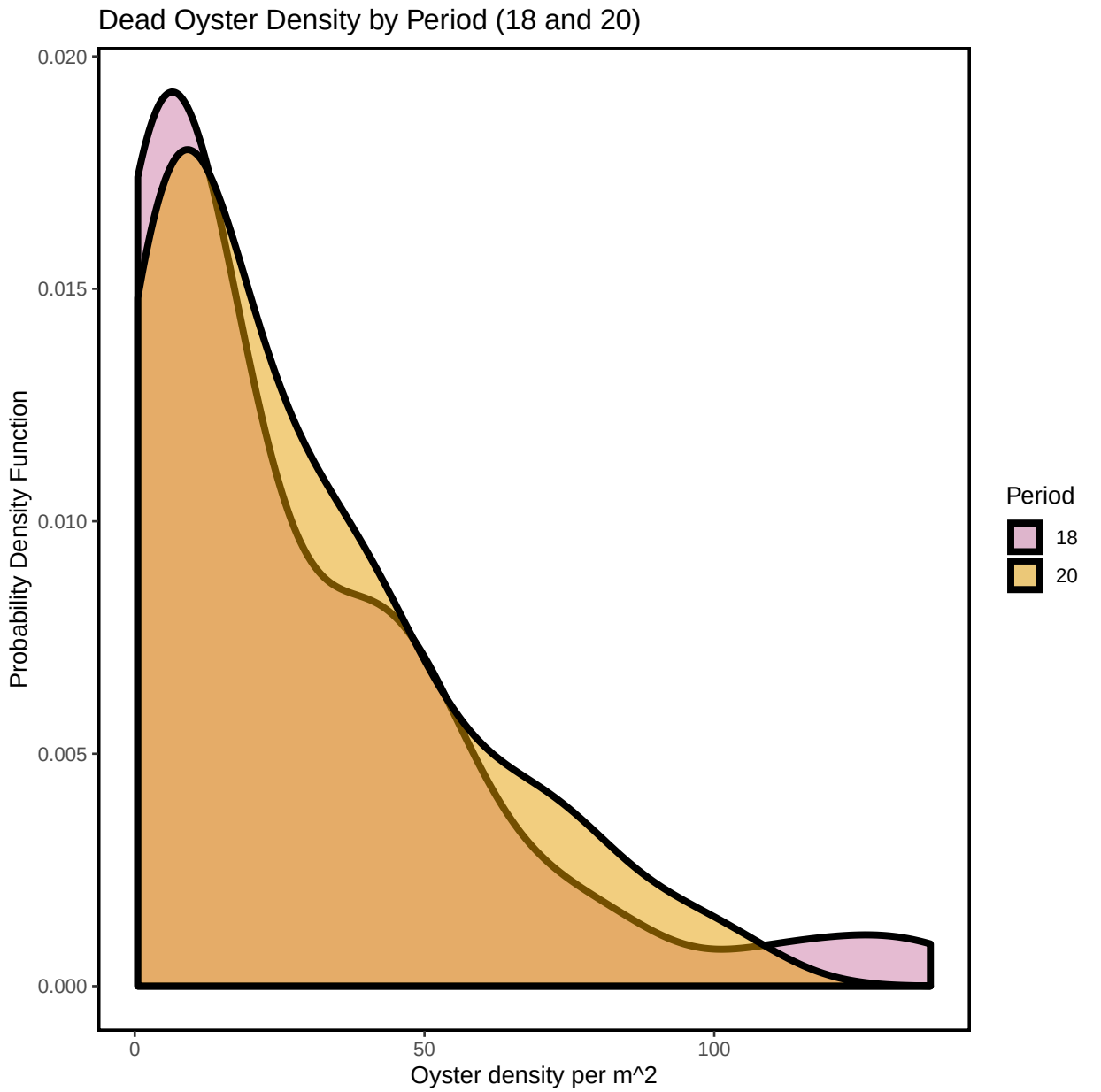


Figure- Calculated dead oyster density by periods 18 (Winter 2018-2019) and 20 (Winter 2019-2020) using a probability density function with the last sample date of period 22 as 2021-02-26.

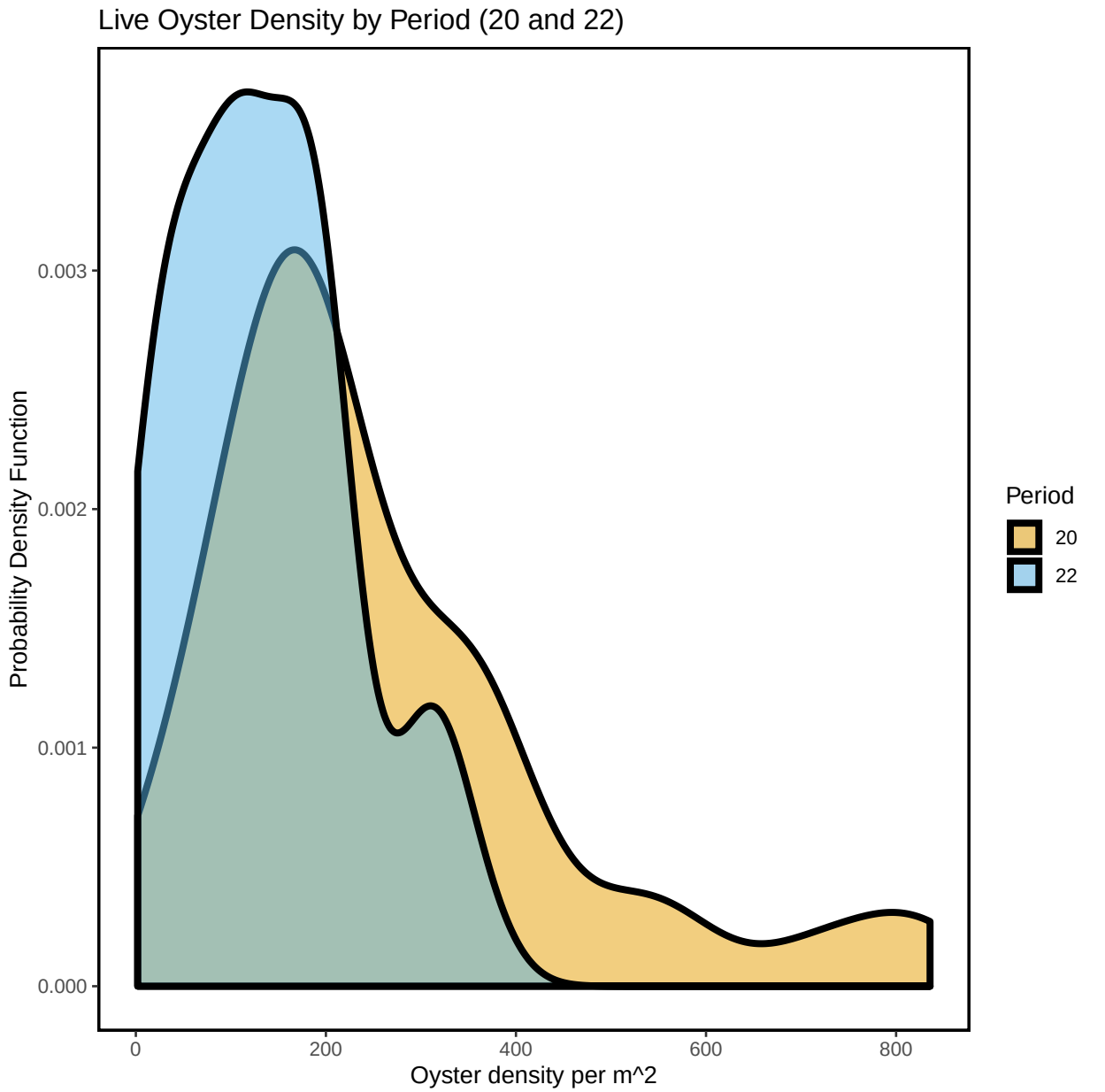


Figure- Calculated live oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-02-26.

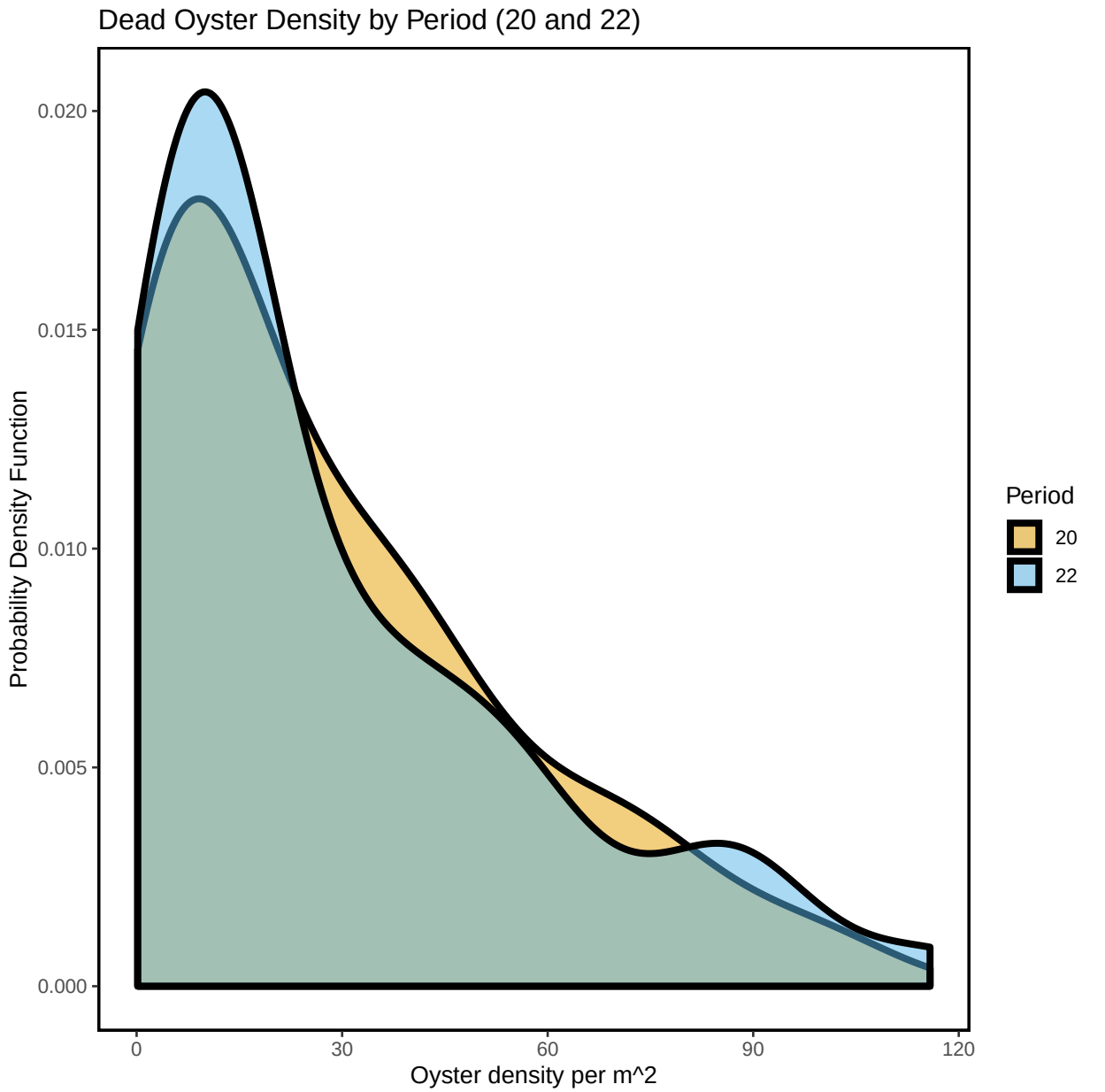


Figure- Calculated dead oyster density by periods 20 (Winter 2019-2020) and 22 (Winter 2020-2021) using a probability density function with the last sample date of period 22 as 2021-02-26.

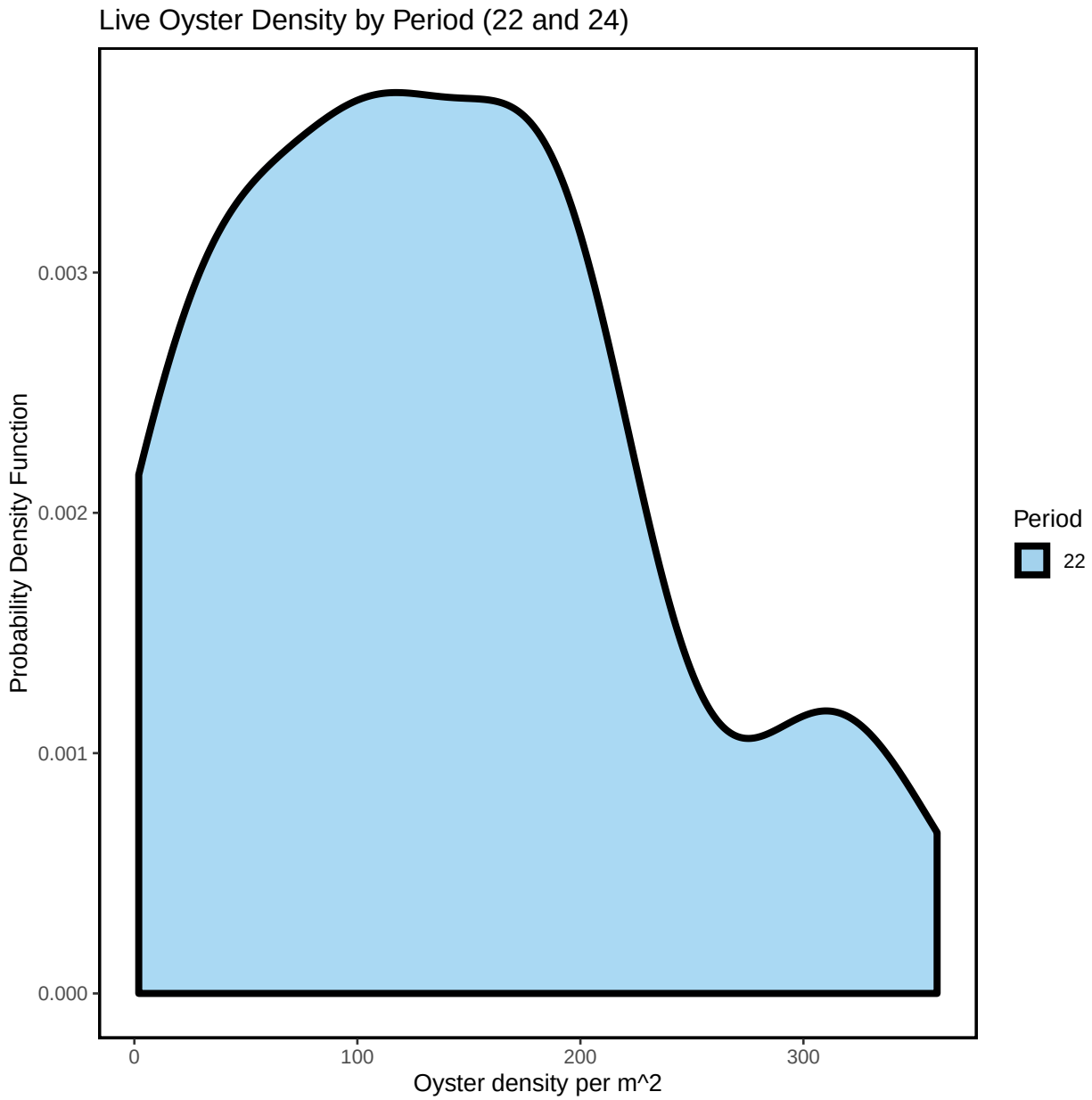


Figure- Calculated live oyster density by periods 22 (Winter 2020-2021) and 24 (Winter 2021-2022) using a probability density function with the last sample date of period 24 as 2021-02-26.

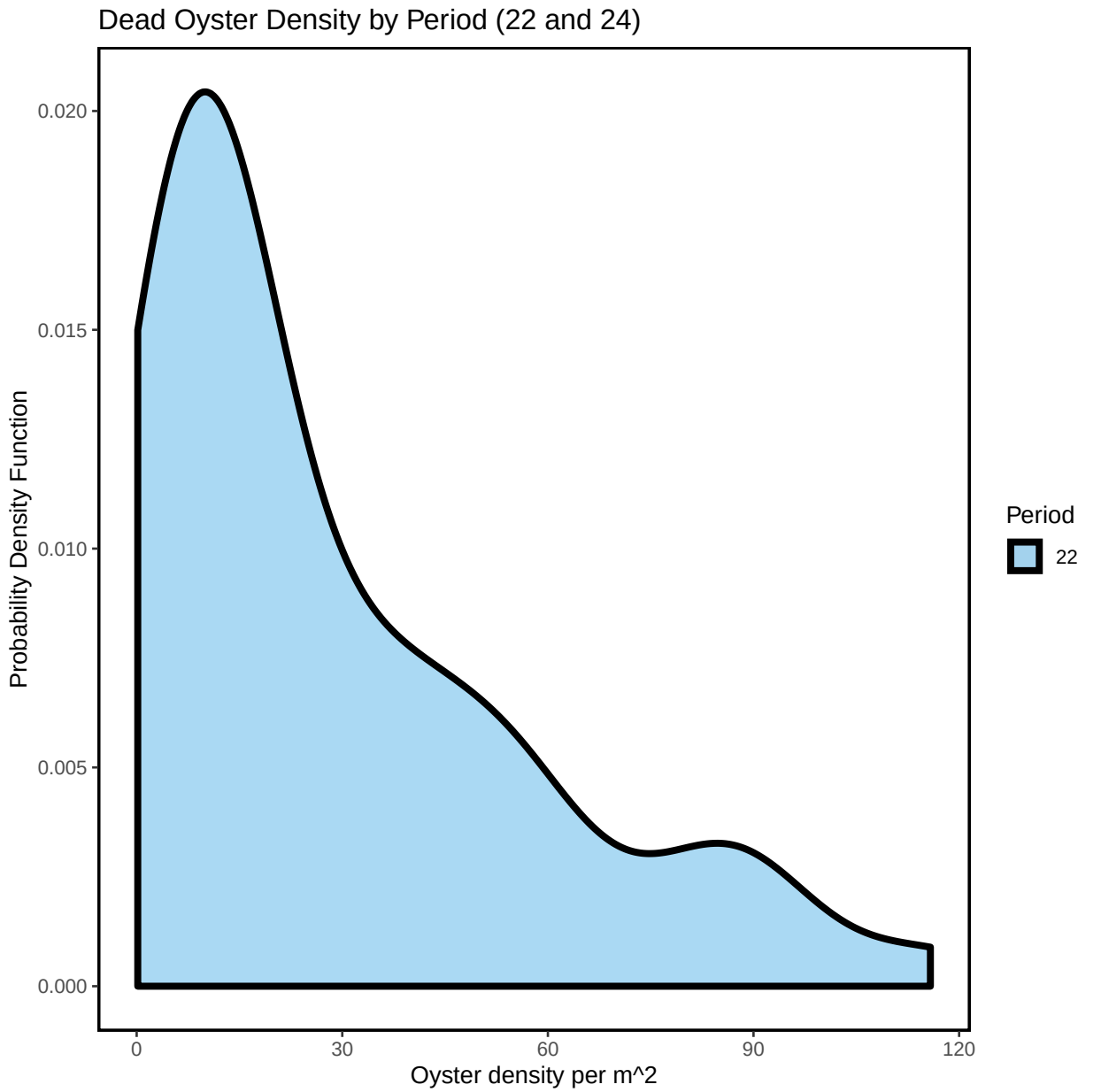


Figure- Calculated dead oyster density by periods 22 (Winter 2020-2021) and 24 (Winter 2021-2022) using a probability density function with the last sample date of period 24 as 2021-02-26.

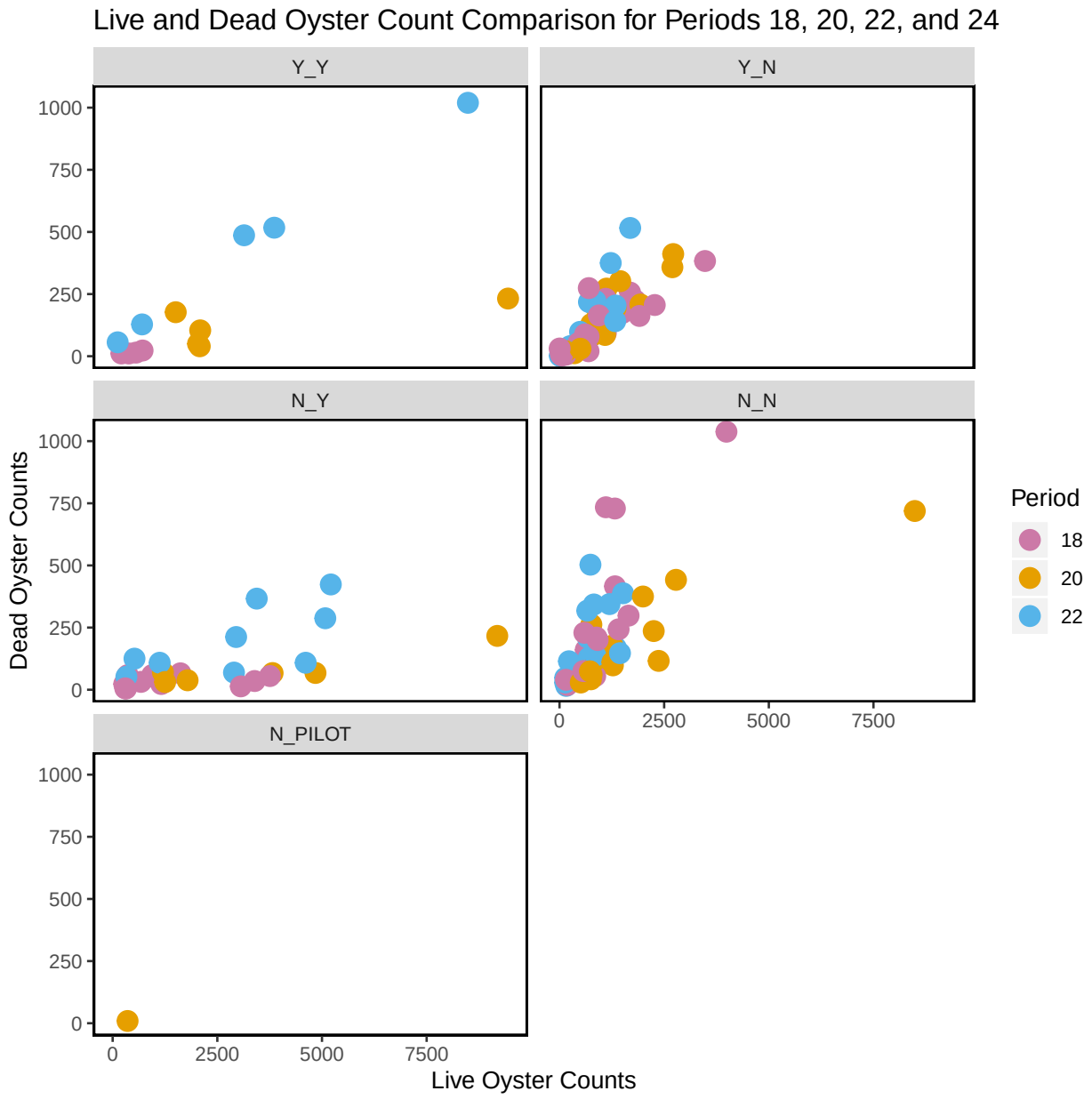


Figure- Live and dead oyster count comparison by periods 18 (Winter 2018- 2019), 20 (Winter 2019-2020), 22 (Winter 2020-2021) and 24 (Winter 2021-2022), last sample date of period 24 as 2021-02-26.

Live Counts Double Pass Results

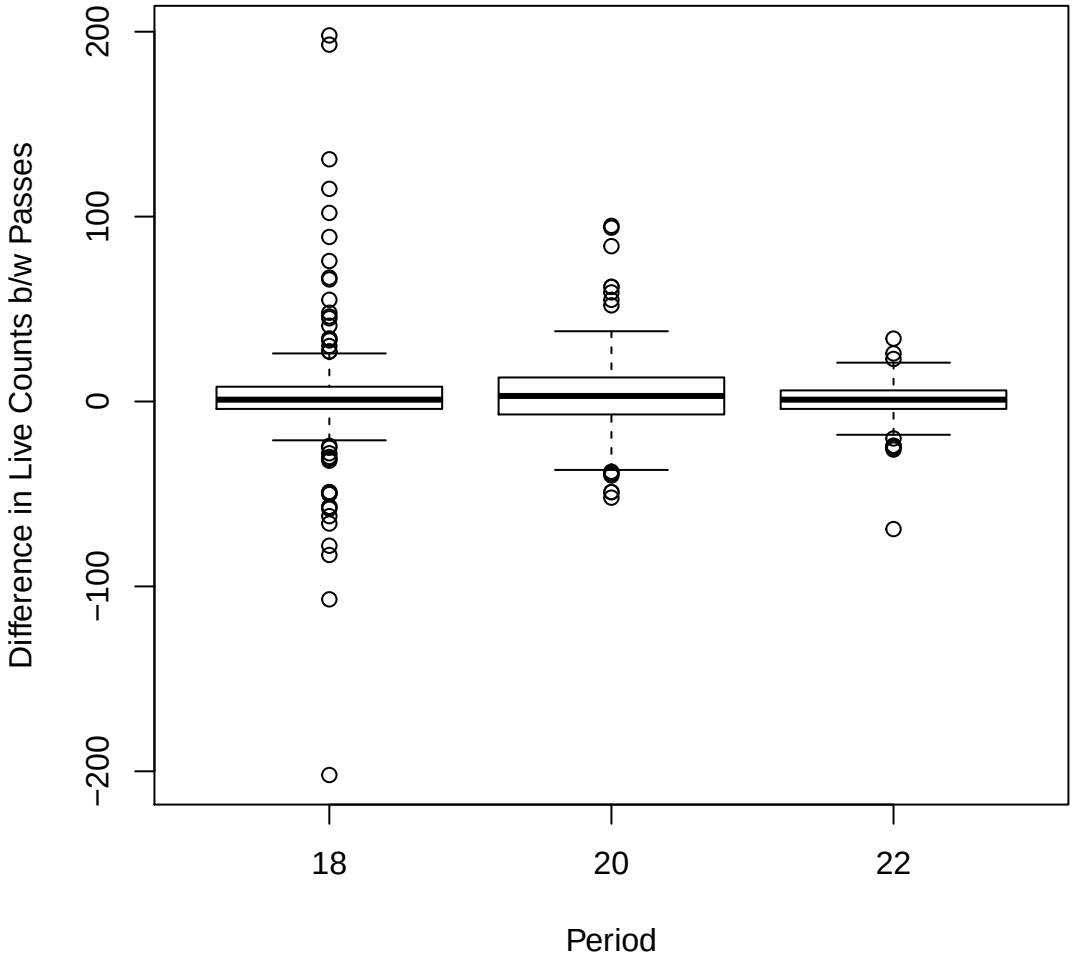


Figure- Boxplot of the difference in live counts between pass 1 and pass 2 (pass 1 live counts - pass 2 live counts) for period 18, 20, 22, and 24

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	0.74	0.76
LT	22	0.49	0.50

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

Dead Counts Double Pass Results

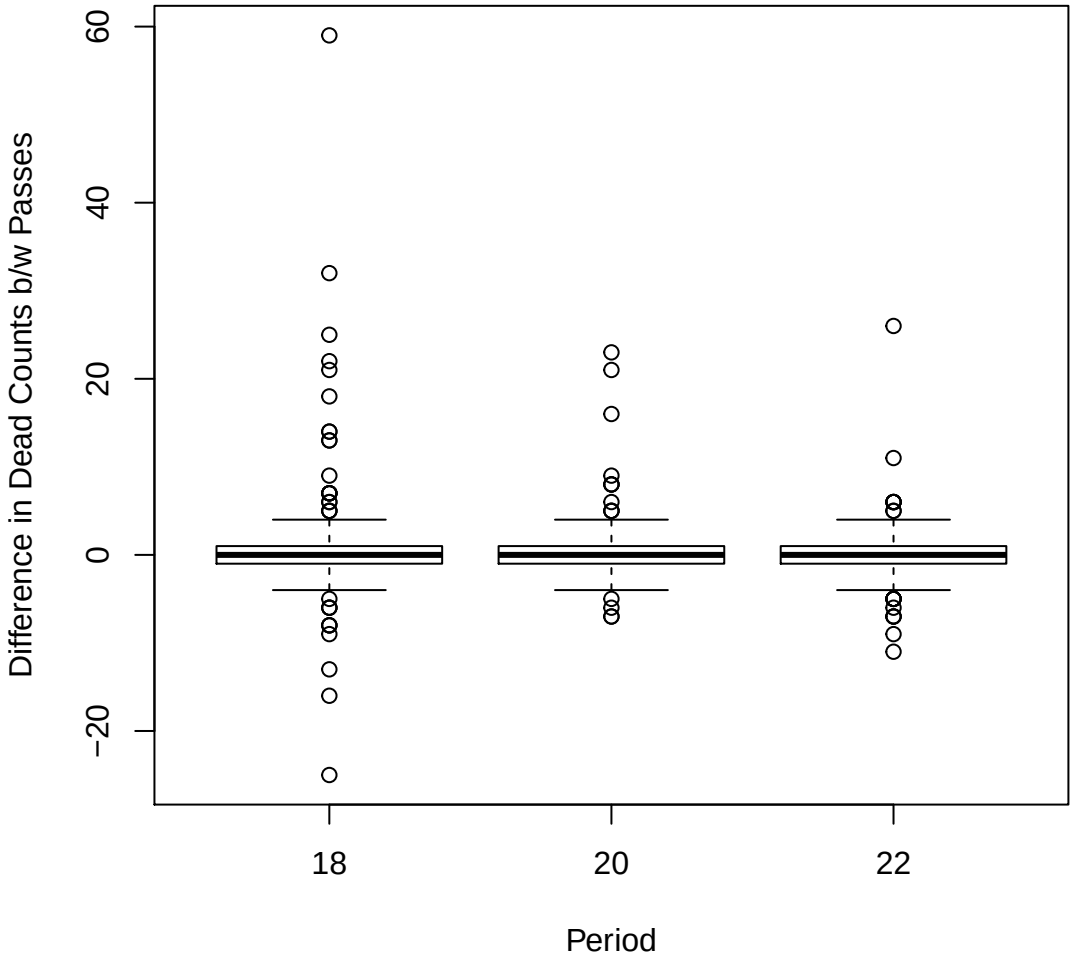


Figure- Boxplot of the difference in dead counts between pass 1 and pass 2 (pass 1 dead counts - pass 2 dead counts) for period 18, 20, 22, and 24

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	1.09	1.07
LT	22	0.69	0.66

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 2021-02-26. 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
23	Summer	2021
24	Winter	2021-2022

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	13	466
CK	26	712
CR	46	1330
HB	45	1129
LC	196	10677
LT	17	450
NN	11	285

Effort by Strata

Strata	Number of Transects	Total Length (m)
N_N	113	3710
N_PILOT	13	799
N_Y	28	3173
Y_N	186	5400
Y_Y	14	1966

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	49	3527

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	5	132
22	LC	37	3223
22	LT	4	96
22	NN	3	76
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	20	544
22	N_Y	9	1324
22	Y_N	15	524
22	Y_Y	5	1136
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

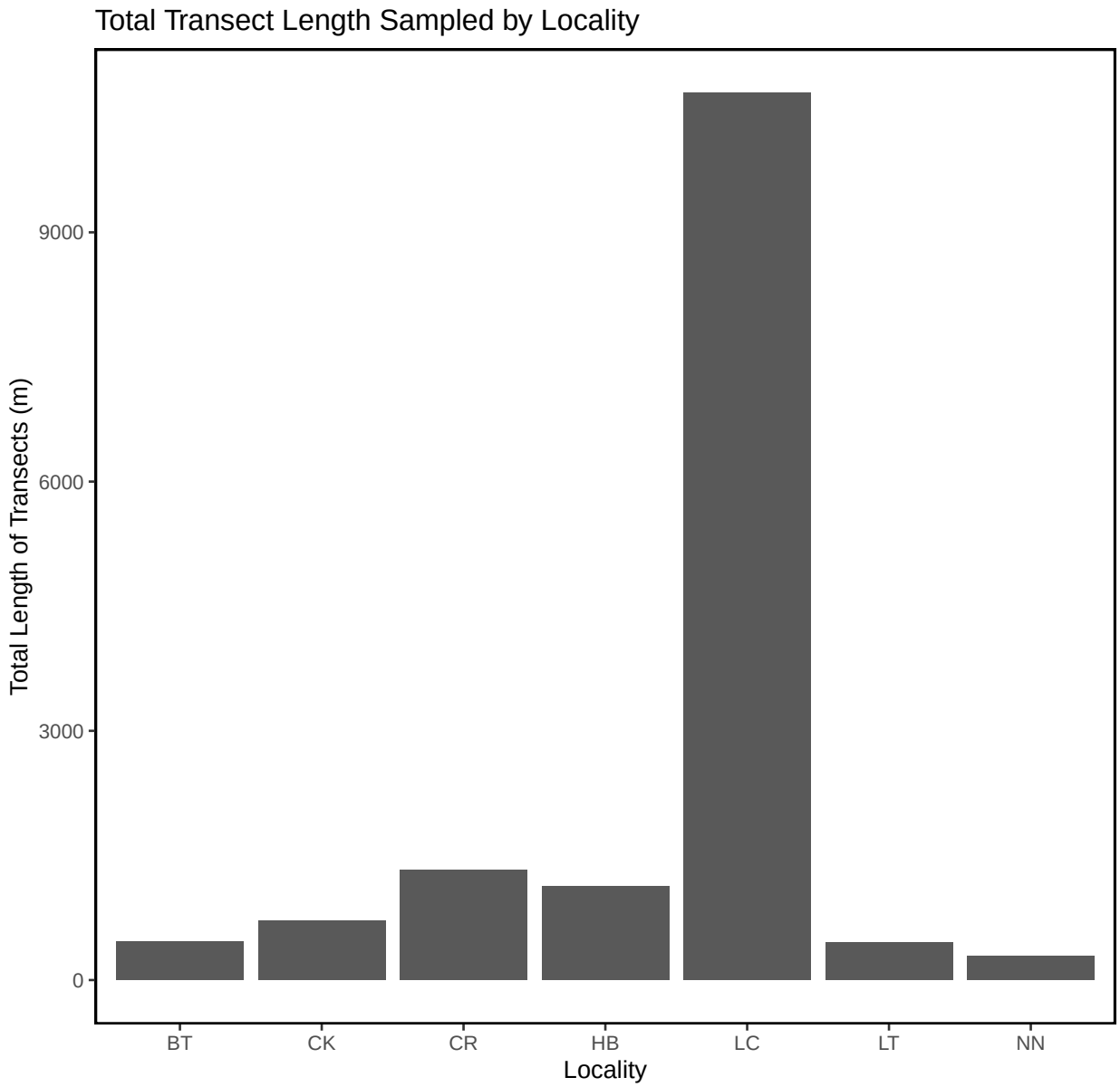


Figure − Bar plot of total transect length in meters sampled by locality for all periods.

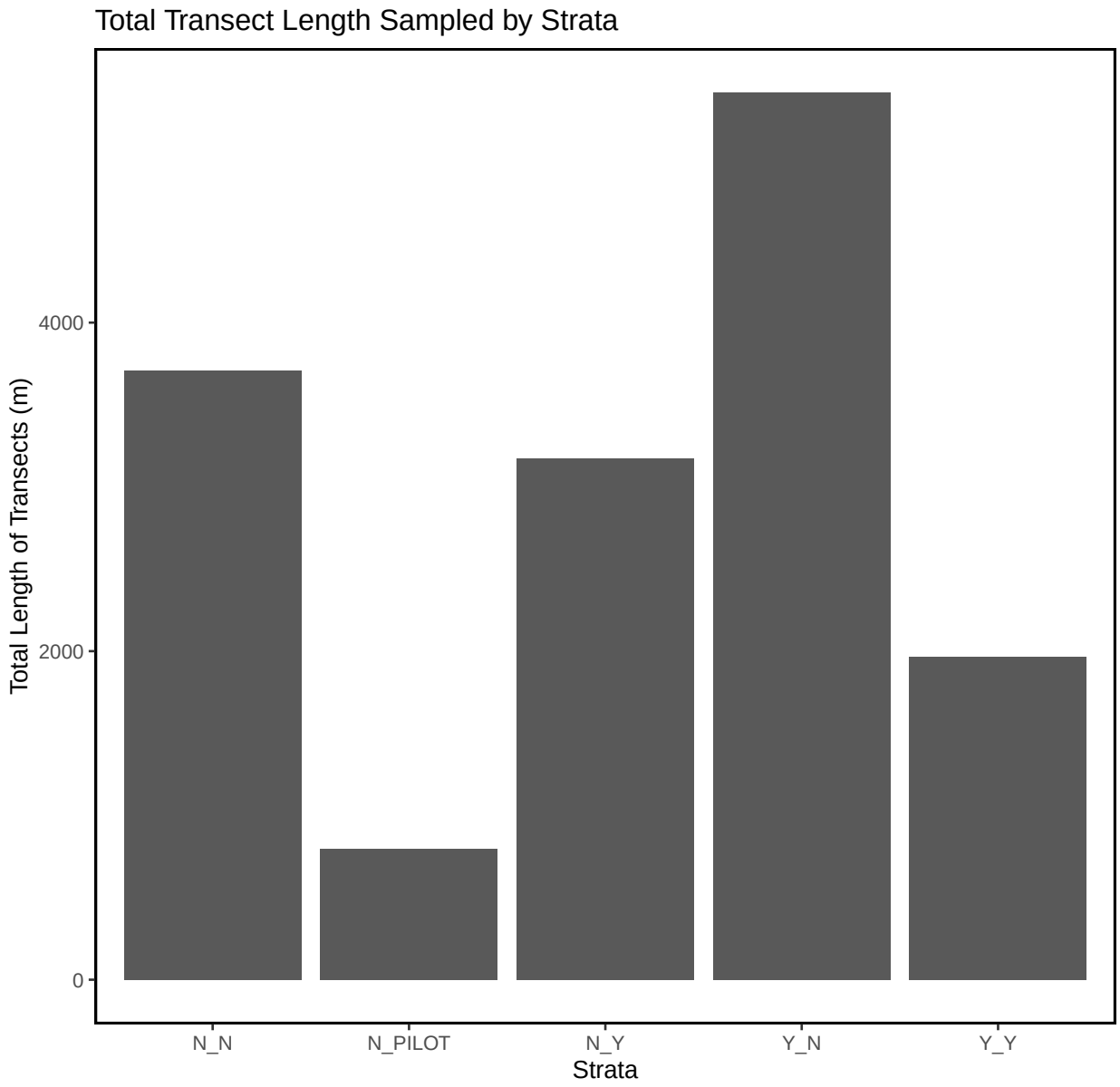
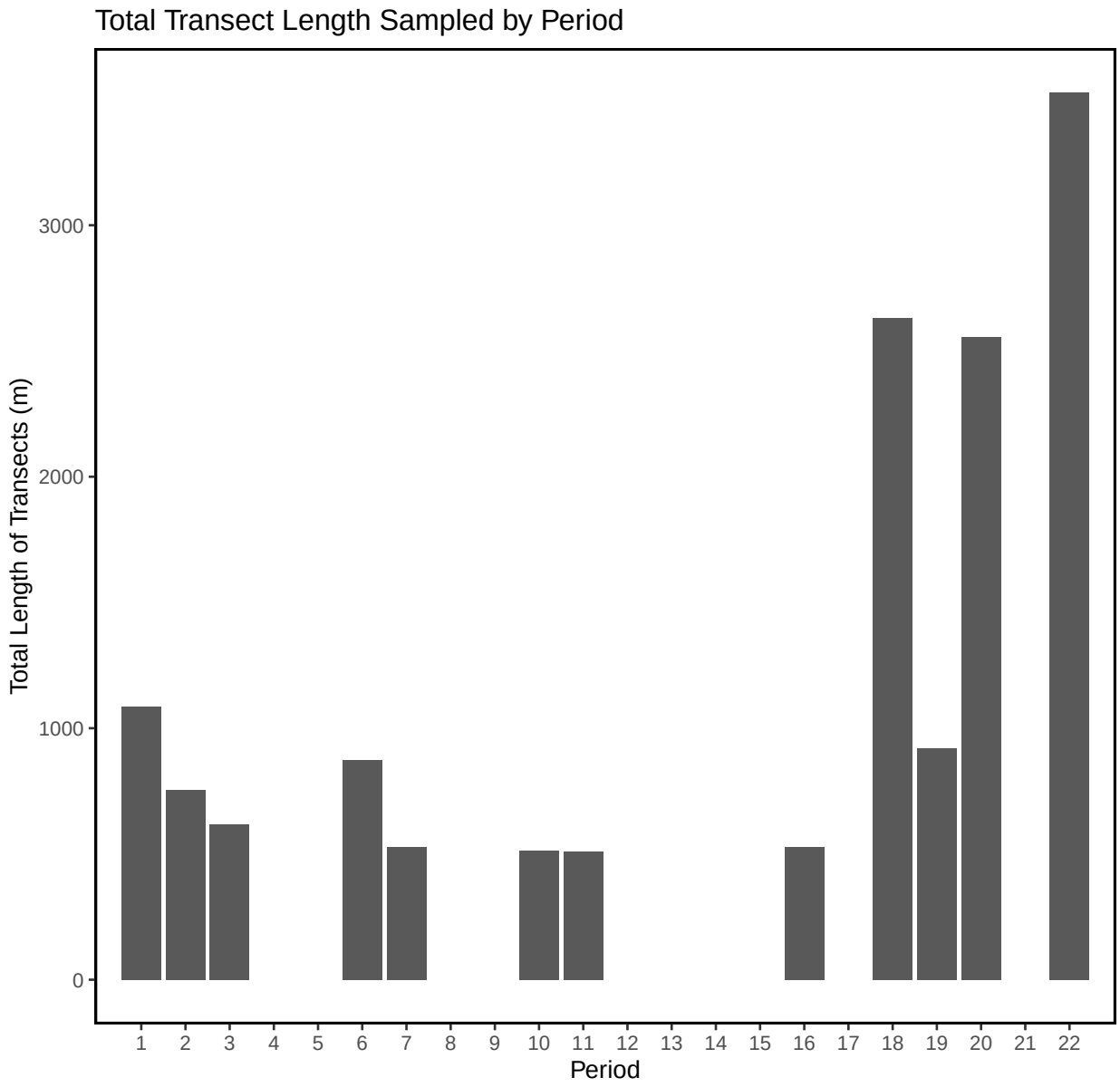


Figure − Bar plot of total transect length in meters sampled by strata for all periods.



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	1665	897	2257	5094708	1.36	626	438	2892	1730	791	3057
CK	857	444	1091	1190933	1.27	214	438	1277	855	468	1307
CR	1026	716	1035	1072162	1.01	153	727	1325	1018	748	1303
HB	902	364	1047	1095622	1.16	158	592	1211	906	623	1213
LC	1094	679	1449	2099038	1.32	104	889	1298	1098	902	1314
LT	1051	877	607	368075	0.58	147	762	1339	1057	804	1361
NN	786	727	649	420847	0.83	196	403	1169	773	470	1143

Live Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	993	764	1055	1112913	1.06	100	798	1189	993	805	1213
N_PILOT	1046	1109	627	392853	0.60	174	705	1386	1042	728	1379
N_Y	2337	1436	2128	4529713	0.91	402	1548	3125	2353	1588	3168
Y_N	780	435	917	840395	1.18	68	647	913	781	651	919
Y_Y	2524	1772	2954	8726548	1.17	790	976	4071	2565	1231	4170

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	1411	1066	1797
2	890	476	945	893727	1.06	176	546	1234	904	565	1258
3	738	296	817	668064	1.11	167	411	1065	736	444	1069
6	433	176	534	284791	1.23	96	245	621	433	262	632
7	50	29	56	3186	1.12	20	11	90	49	17	86
10	1207	1074	671	449607	0.56	237	743	1672	1191	800	1615
11	886	776	678	459708	0.77	240	416	1356	893	473	1355
16	494	366	467	217855	0.95	165	170	817	493	214	802
18	982	695	935	874733	0.95	120	748	1217	986	780	1233
19	555	329	573	328431	1.03	97	365	745	554	375	745
20	1844	1253	2125	4517189	1.15	310	1236	2451	1823	1256	2416
22	1334	702	1693	2867783	1.27	242	860	1808	1332	907	1868

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	262	218	190	36278	0.73	53	158	365	263	175	366
CK	241	112	321	102795	1.33	63	118	365	241	137	367
CR	288	181	294	86231	1.02	43	203	373	287	210	371
HB	257	101	303	92052	1.18	46	168	347	257	175	356
LC	152	118	149	22325	0.98	11	131	173	151	131	174
LT	278	249	143	20392	0.51	35	210	346	277	218	344
NN	224	164	224	50174	1.00	68	92	356	224	125	365

Live Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	263	191	256	65472	0.97	24	215	310	263	217	312
N_PILOT	111	111	60	3604	0.54	17	79	144	111	81	145
N_Y	142	125	95	9027	0.67	18	106	177	142	108	177
Y_N	187	111	218	47653	1.17	16	156	219	188	159	220
Y_Y	116	97	93	8707	0.81	25	67	164	115	70	163

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	394.6	283.7	502.4
2	255	119.0	285.2	81348	1.12	53	151.3	358.9	253.1	153.7	357.5
3	234	85.3	269.3	72523	1.15	55	126.1	341.6	232.2	137.2	344.5
6	122	72.2	150.9	22769	1.24	27	68.6	174.9	121.3	71.9	172.2
7	5	2.9	5.6	31	1.12	2	1.1	8.9	5.1	1.8	8.9
10	124	113.3	67.4	4536	0.54	24	76.9	170.3	123.3	81.6	165.1
11	90	79.5	67.8	4596	0.75	24	43.4	137.4	91.1	51.7	136.6
16	49	36.3	46.4	2154	0.95	16	16.9	81.2	49.2	20.9	80.2
18	177	154.5	130.8	17117	0.74	17	144.3	210.0	177.3	143.6	208.7
19	160	85.6	171.9	29552	1.08	29	102.9	216.8	162.0	108.5	216.9
20	258	202.8	187.6	35185	0.73	27	204.4	311.7	257.1	207.1	310.7
22	138	120.6	93.1	8671	0.68	13	111.6	163.8	137.3	112.0	162.9

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	313	169	317	100240	1.01	88	140.8	485	308	158	489
CK	78	32	106	11170	1.36	37	4.3	151	77	18	145
CR	60	47	38	1444	0.63	13	35.2	85	60	39	84
HB	44	21	45	2000	1.02	15	14.8	73	44	18	72
LC	111	66	136	18427	1.22	11	90.0	133	112	92	134
LT	240	210	193	37090	0.80	47	148.1	331	239	158	324
NN	104	74	96	9216	0.92	29	47.6	161	104	57	163

Dead Oyster Counts by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	156	83	190	36091	1.22	21	114	197	155	116	200
N_PILOT	82	87	46	2136	0.56	13	57	108	81	60	106
N_Y	96	59	108	11604	1.12	20	56	136	96	60	138
Y_N	103	53	114	13070	1.11	12	79	127	103	80	128
Y_Y	205	80	288	82752	1.40	77	54	356	206	79	362

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	29	12	49
10	80	88	65	4245	0.82	23.0	34.5	125	79	41	121
11	50	40	25	620	0.49	8.8	33.2	68	51	36	67
16	44	28	41	1708	0.93	14.6	15.6	73	45	20	72
18	133	55	192	36903	1.44	24.6	85.1	182	132	88	183
19	63	44	67	4548	1.08	11.6	40.0	85	63	42	86
20	148	107	140	19727	0.95	20.5	107.6	188	147	111	186
22	191	128	193	37399	1.01	27.6	137.2	245	191	144	247

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	52	39.0	34	1162	0.65	9.5	33.9	71	53	35.6	73
CK	21	11.3	28	757	1.29	9.7	2.3	40	21	5.8	39
CR	20	13.8	15	235	0.77	5.1	10.0	30	20	11.9	30
HB	13	8.0	14	201	1.12	4.7	3.4	22	13	5.2	23
LC	17	8.6	20	418	1.21	1.6	13.7	20	17	14.0	20
LT	59	50.5	38	1426	0.64	9.2	41.5	77	60	43.3	78
NN	29	16.7	25	602	0.85	7.4	14.3	43	29	16.6	44

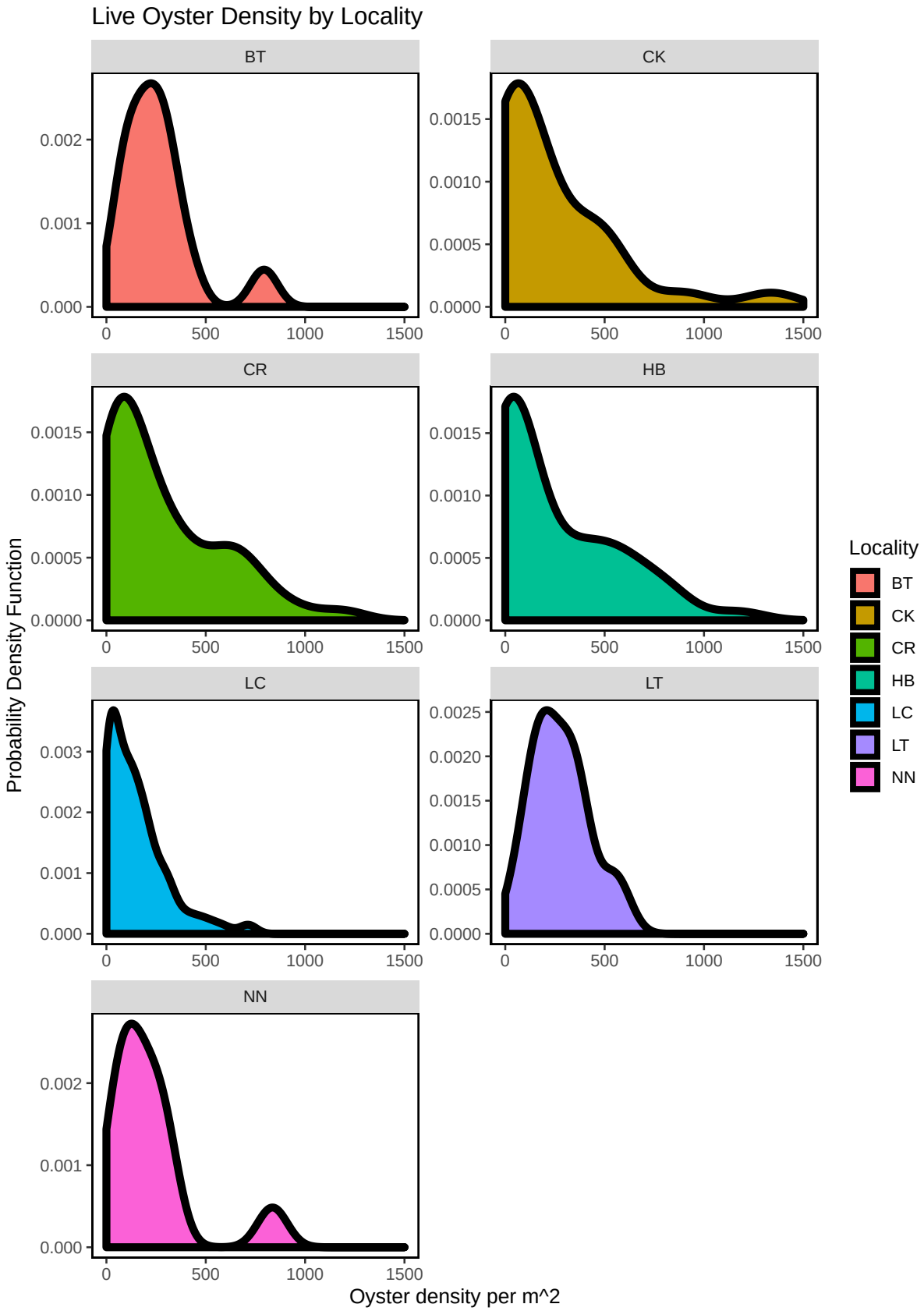
Dead Oyster Density by Strata

Strata	Mean	Median	SD	Var	CV	SE	L95	U95	Bstrap_Mean	L95_Bstrap	U95_Bstrap
N_N	33.6	25.8	32.4	1047	0.96	3.59	26.5	40.6	33.9	27.4	40.9
N_PILOT	8.5	8.7	4.5	20	0.53	1.25	6.1	10.9	8.4	6.3	11.0
N_Y	5.8	4.0	4.6	21	0.80	0.87	4.1	7.4	5.7	4.3	7.5
Y_N	23.0	13.8	24.0	575	1.04	2.57	17.9	28.0	23.0	18.0	27.9
Y_Y	8.4	7.7	6.5	42	0.77	1.73	5.0	11.8	8.3	5.3	11.6

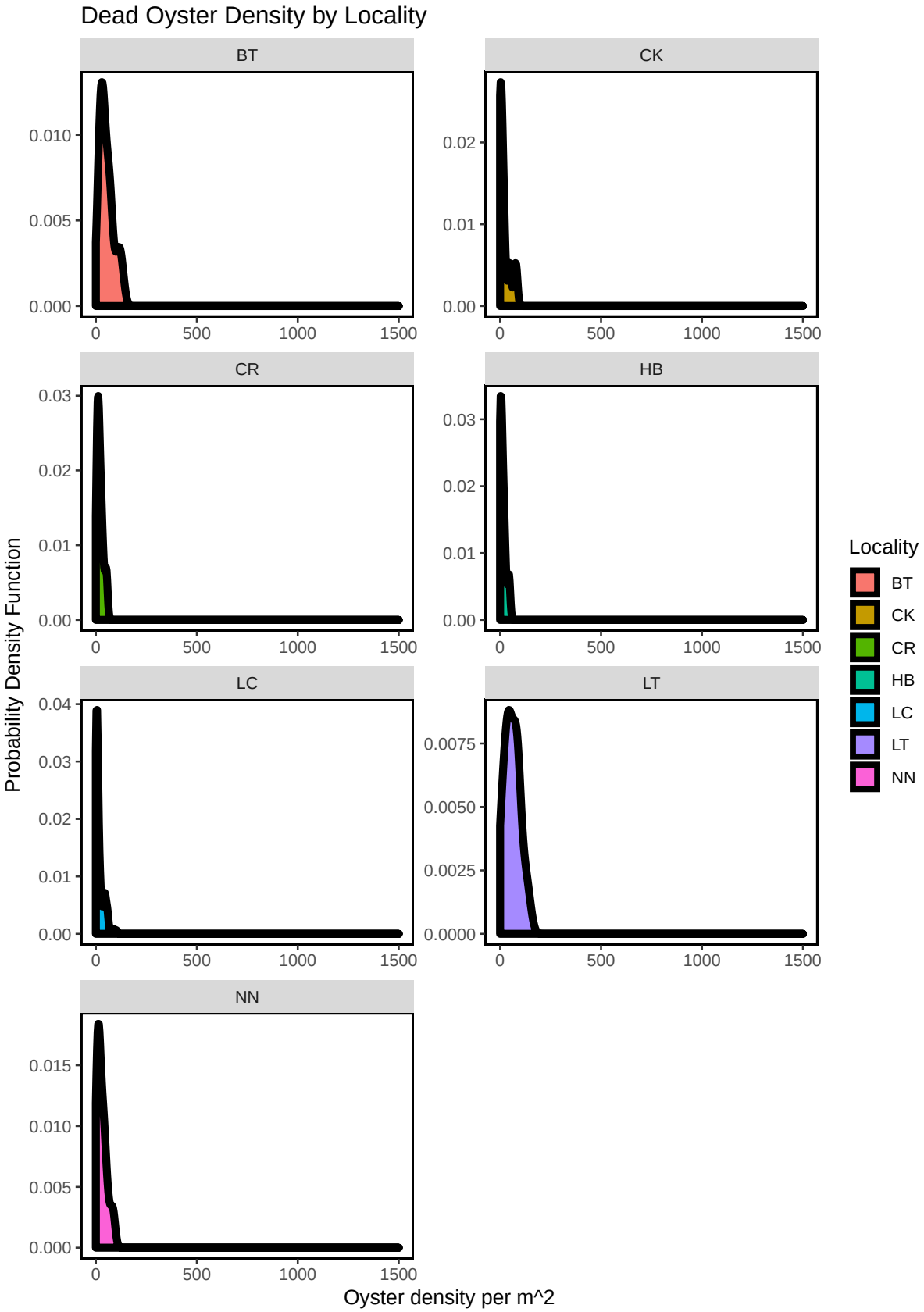
Dead Oyster Density by Period

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	1.0	5.0
10	8.2	8.9	6.6	44.0	0.81	2.35	3.58	12.8	8.2	4.1	12.9
11	5.2	4.1	2.6	6.6	0.49	0.91	3.41	7.0	5.2	3.6	6.9
16	4.4	2.8	4.1	16.9	0.93	1.45	1.55	7.2	4.4	2.0	7.3
18	26.4	15.7	31.3	980.1	1.19	4.01	18.54	34.3	26.2	19.2	34.8
19	18.1	13.1	19.3	370.6	1.07	3.30	11.59	24.5	18.1	11.6	24.5
20	27.9	18.4	26.4	697.6	0.95	3.85	20.38	35.5	27.9	20.2	35.8
22	28.6	14.3	28.7	821.7	1.00	4.09	20.62	36.7	28.7	21.0	36.9

Summary Density Plots for all Periods



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



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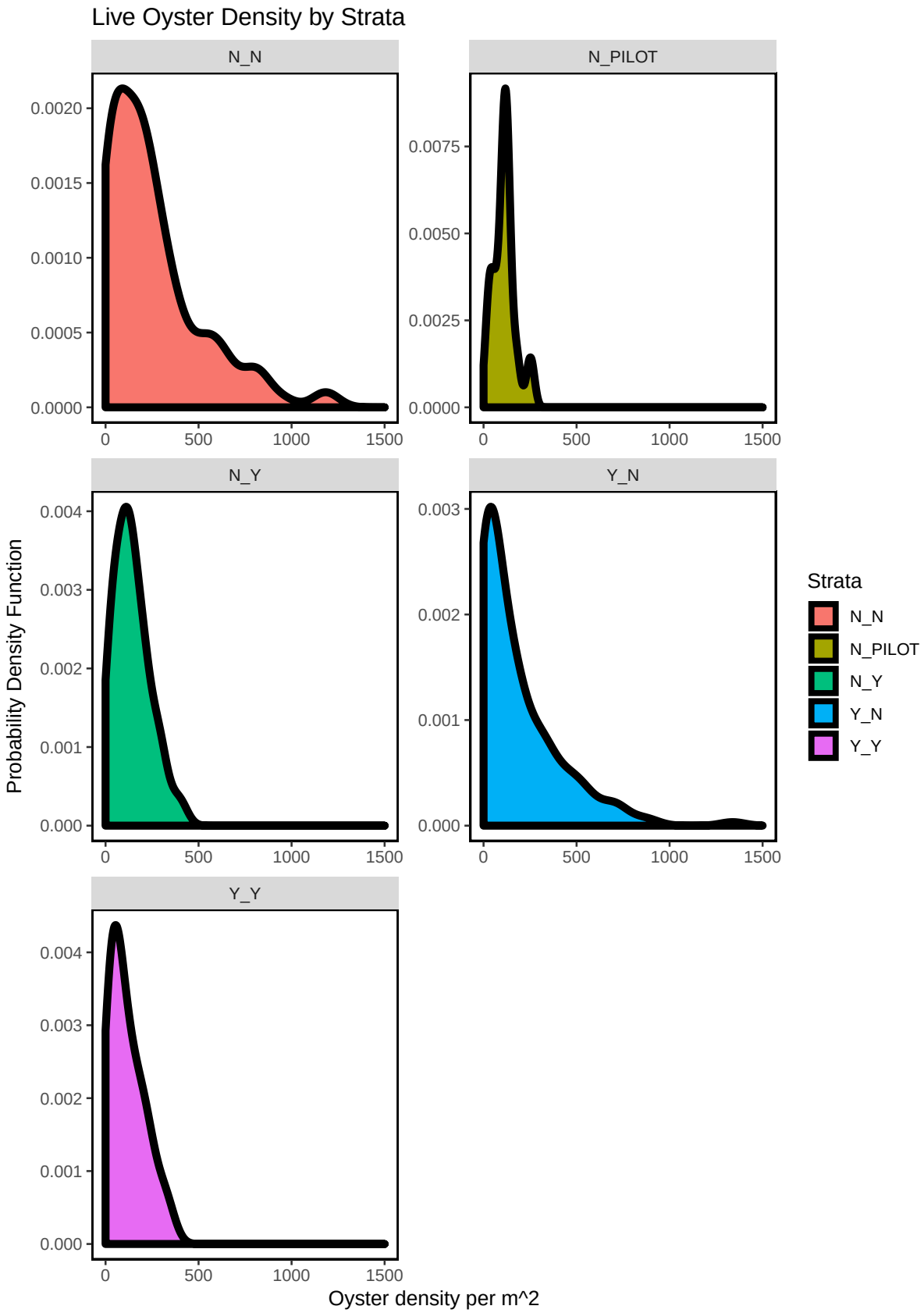
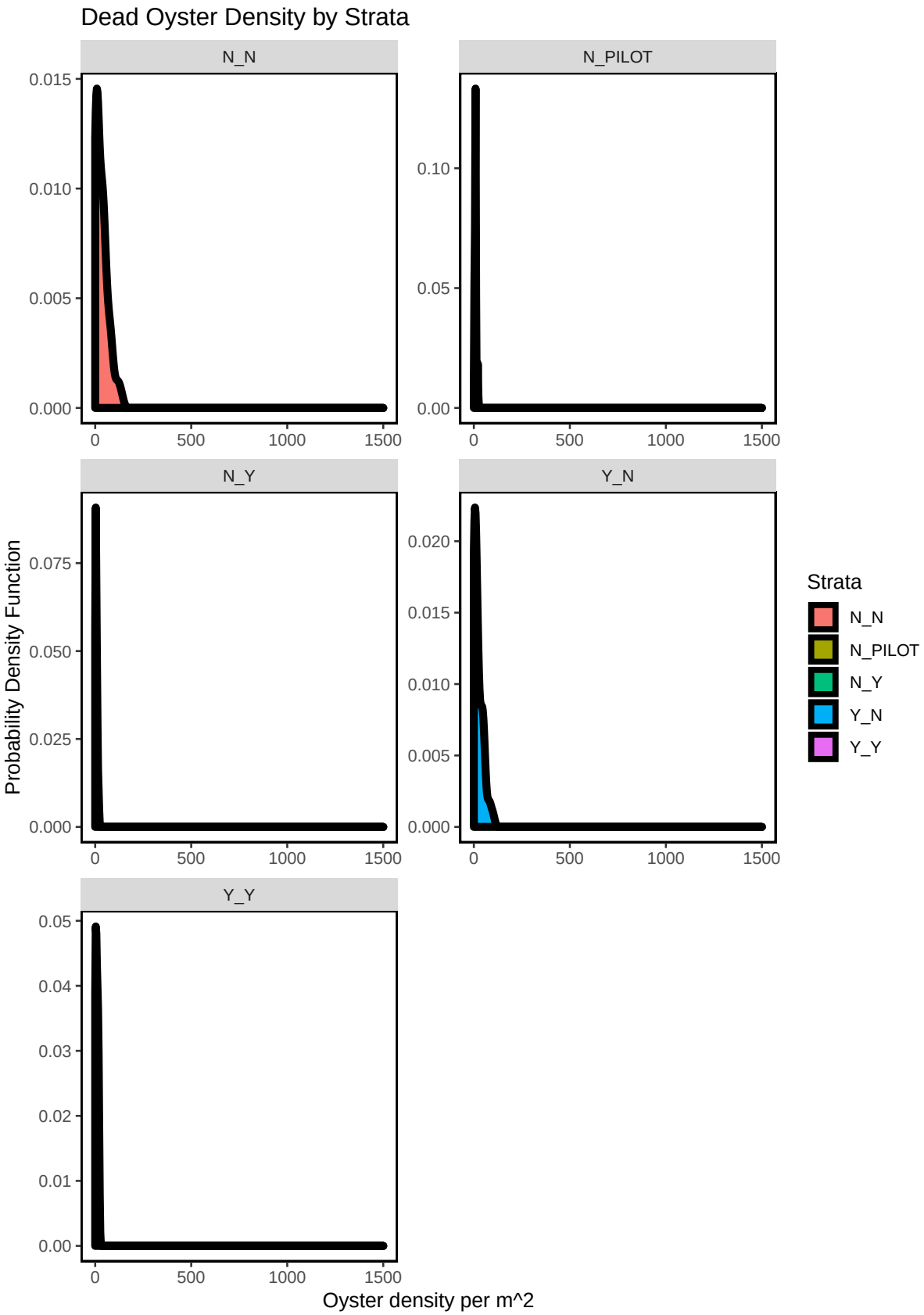
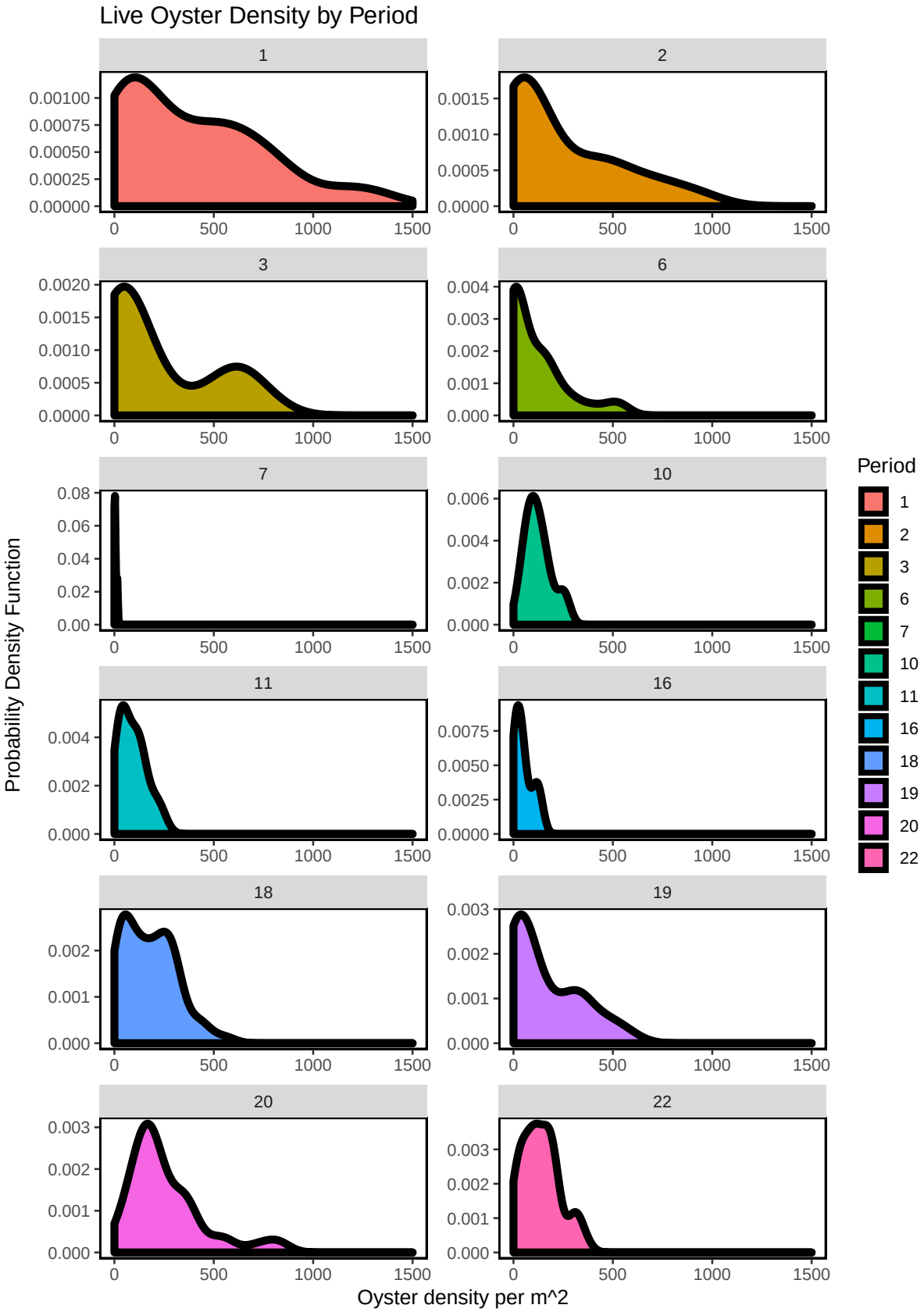


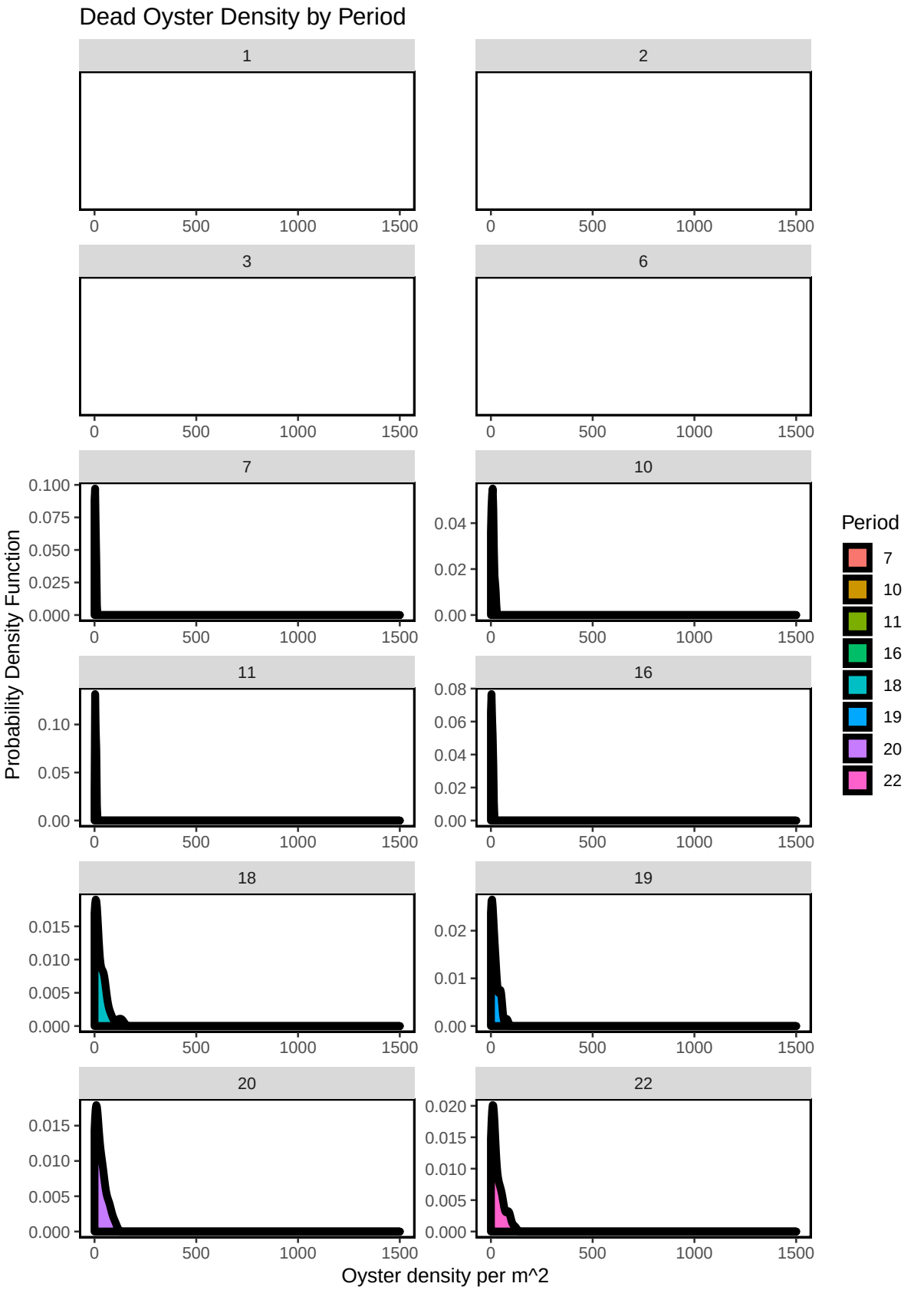
Figure− Calculated live oyster density by strata for all periods including period 22 (current period).



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 densit



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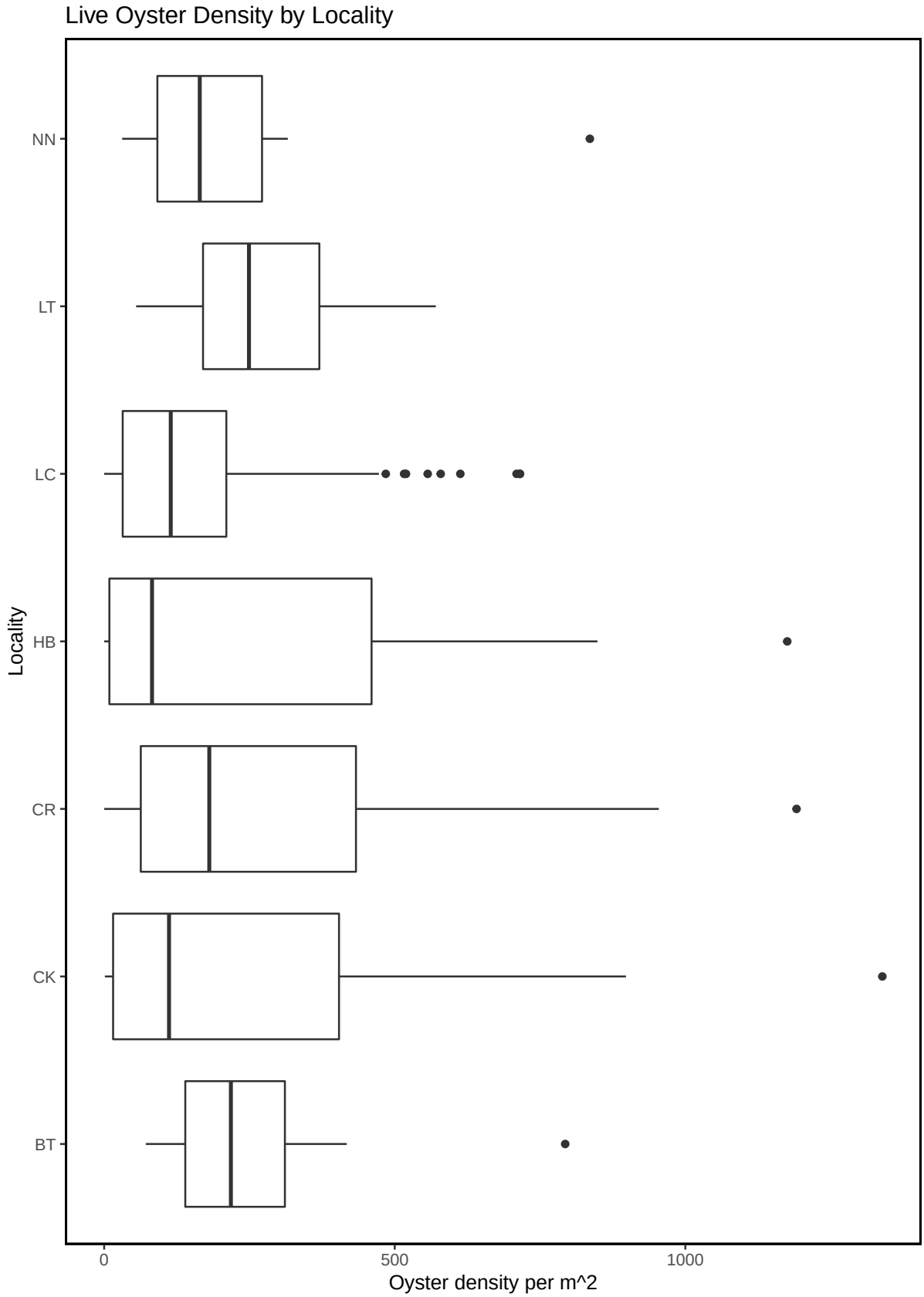
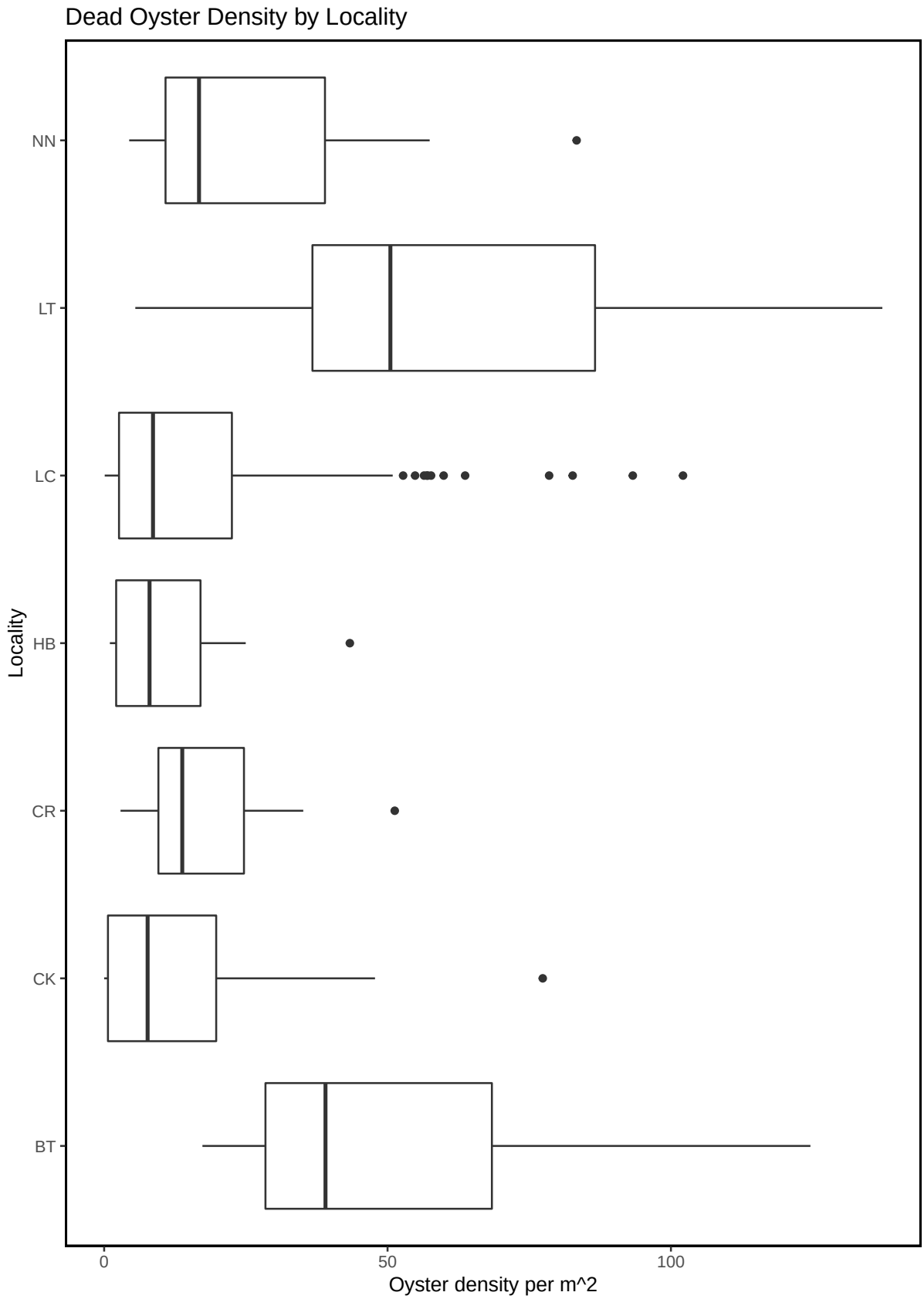


Figure− Box plot depicting live oyster density by locality for all periods including period 22 (current period).



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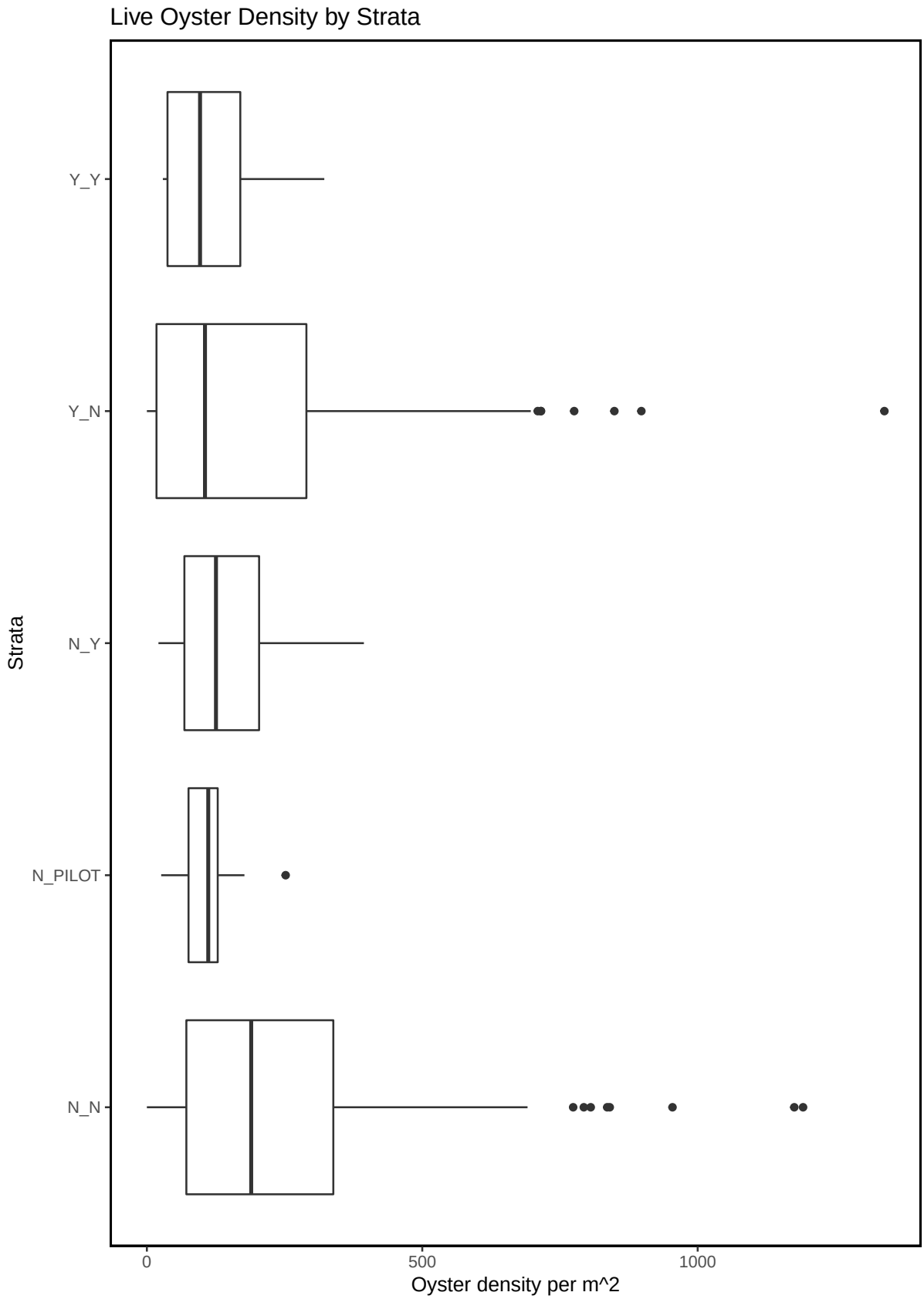
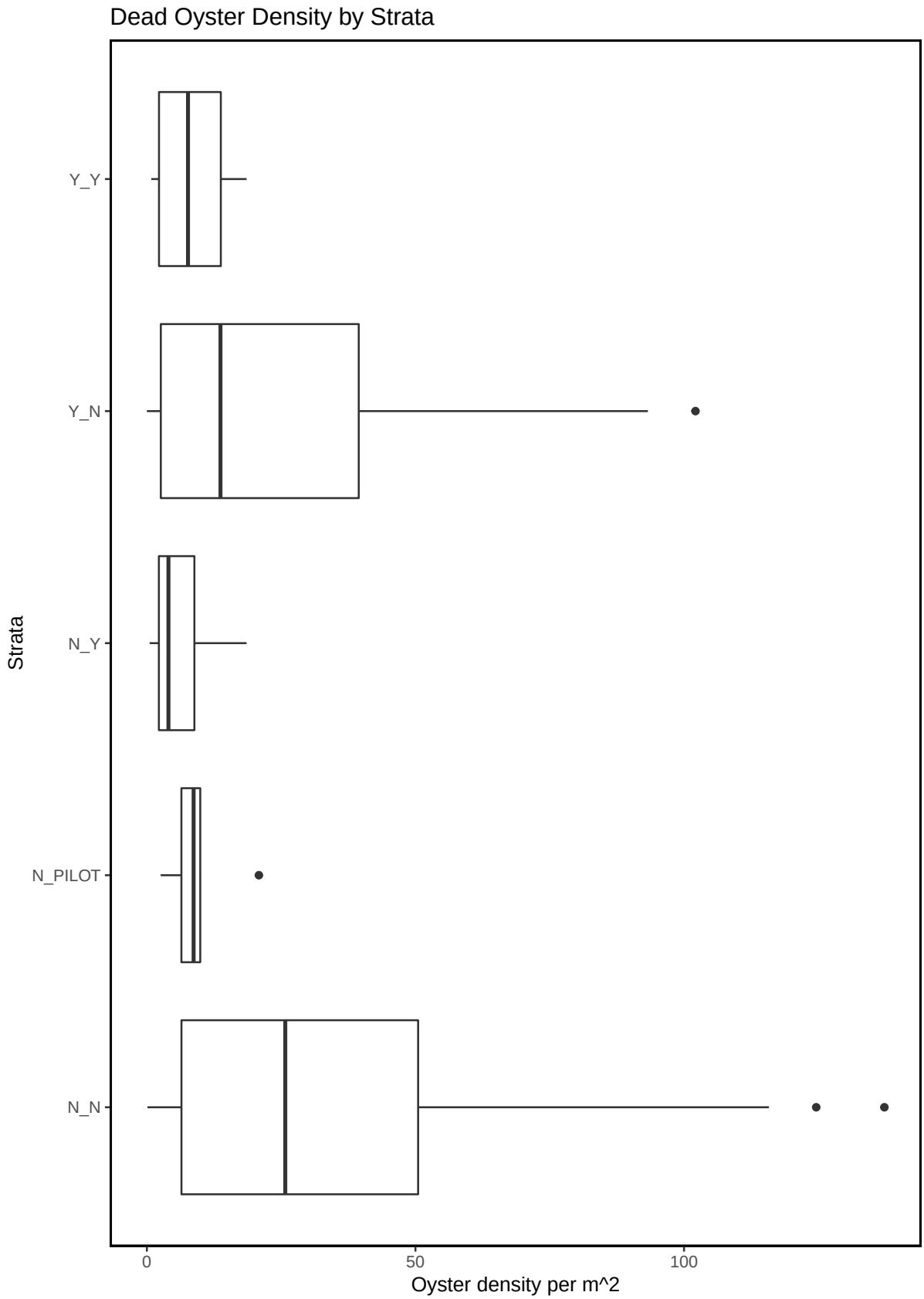
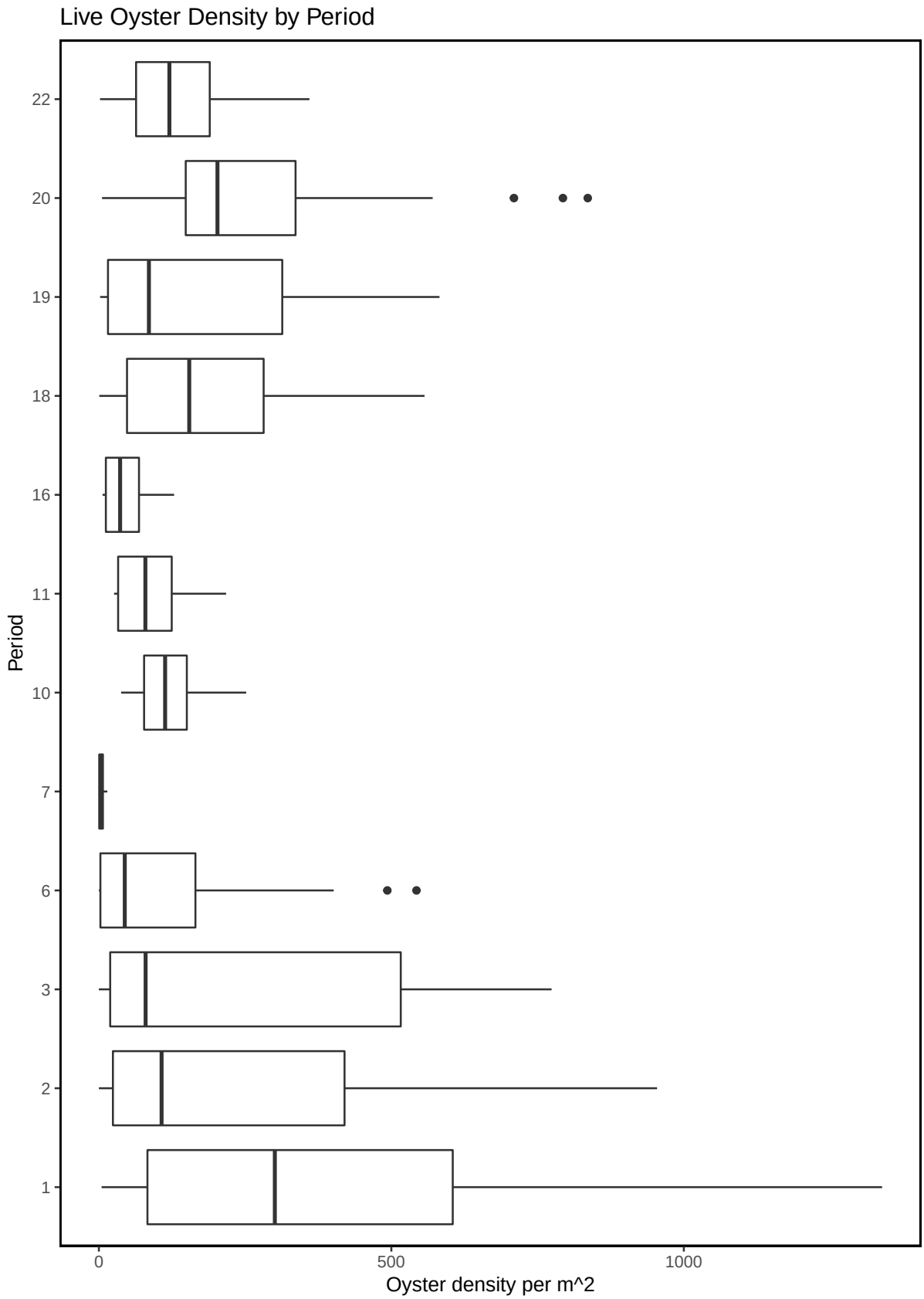


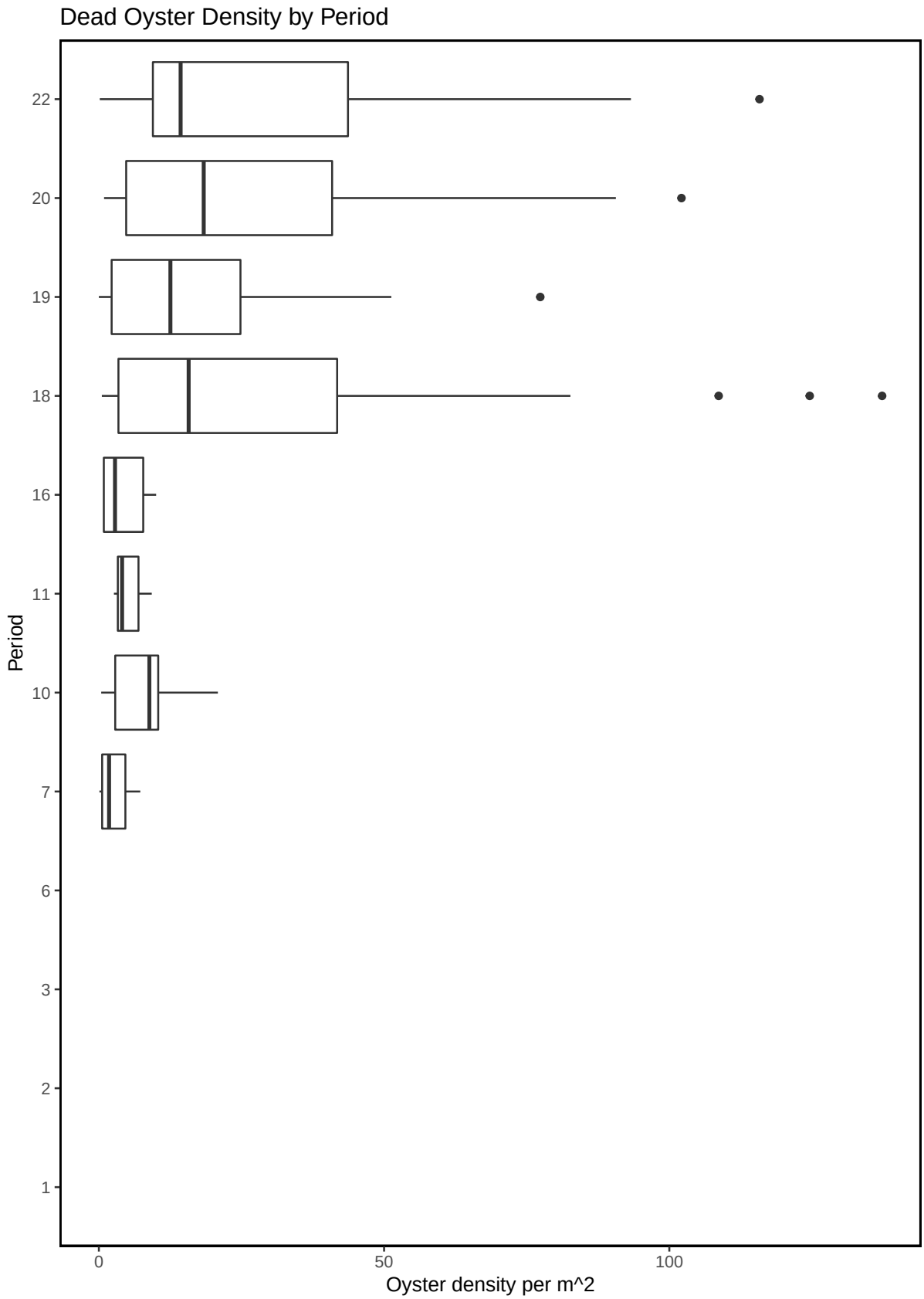
Figure− Box plot depicting live oyster density by strata for all periods including period 22 (current period).



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).

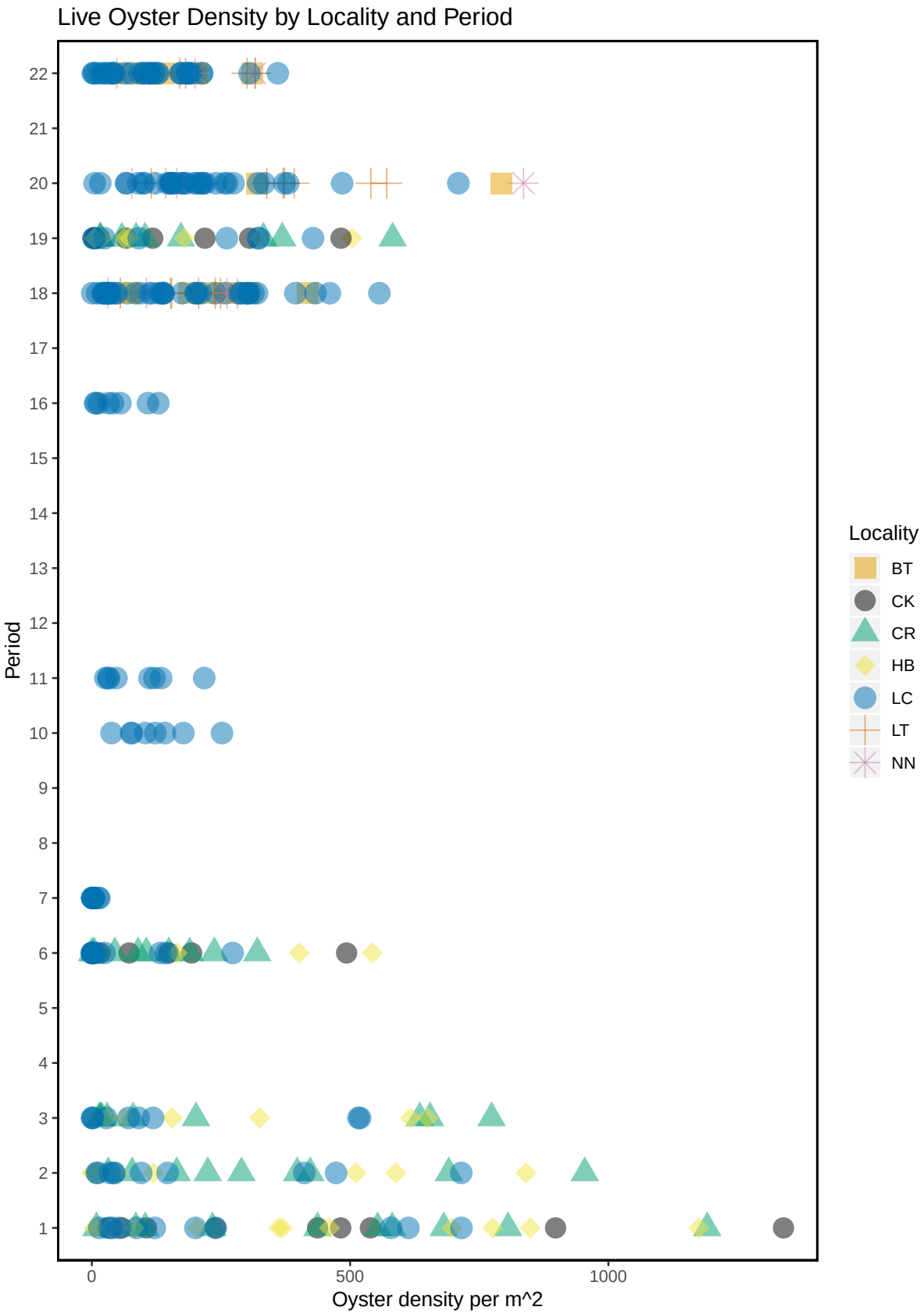


Figure − Live oyster density by locality and period for all periods including period 22 (current period).

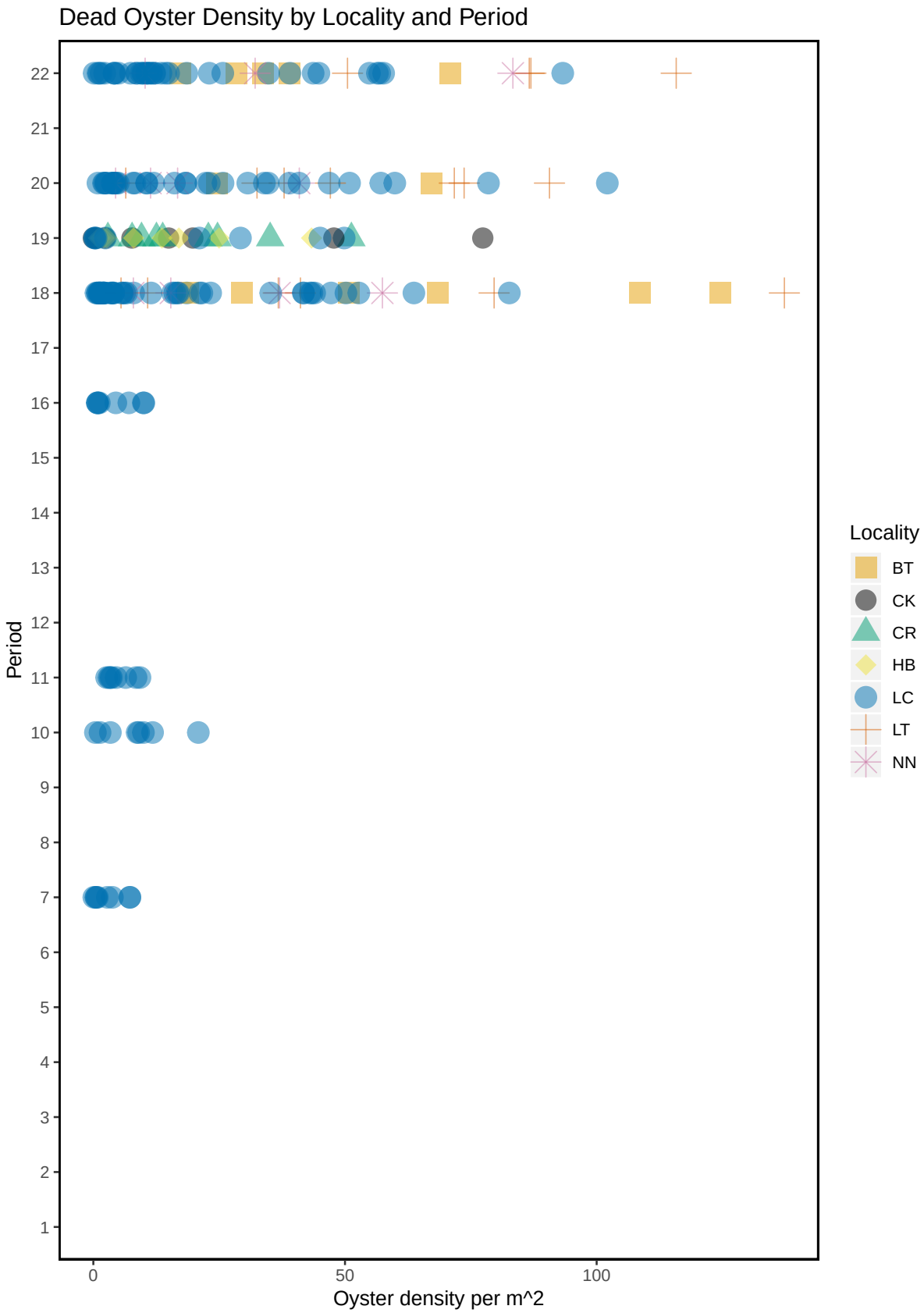


Figure − Dead oyster density by locality and period for all periods including period 22 (current period).

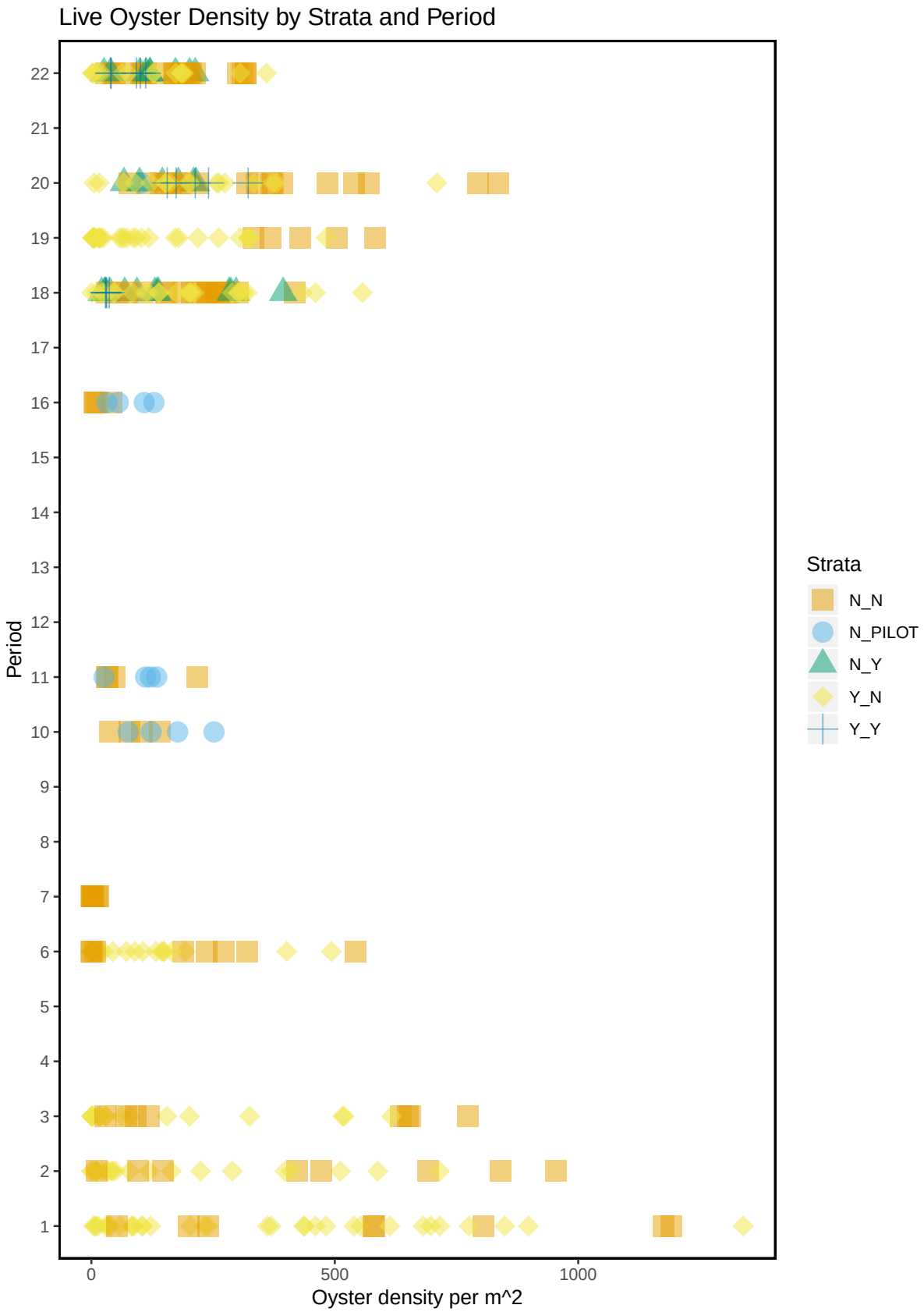
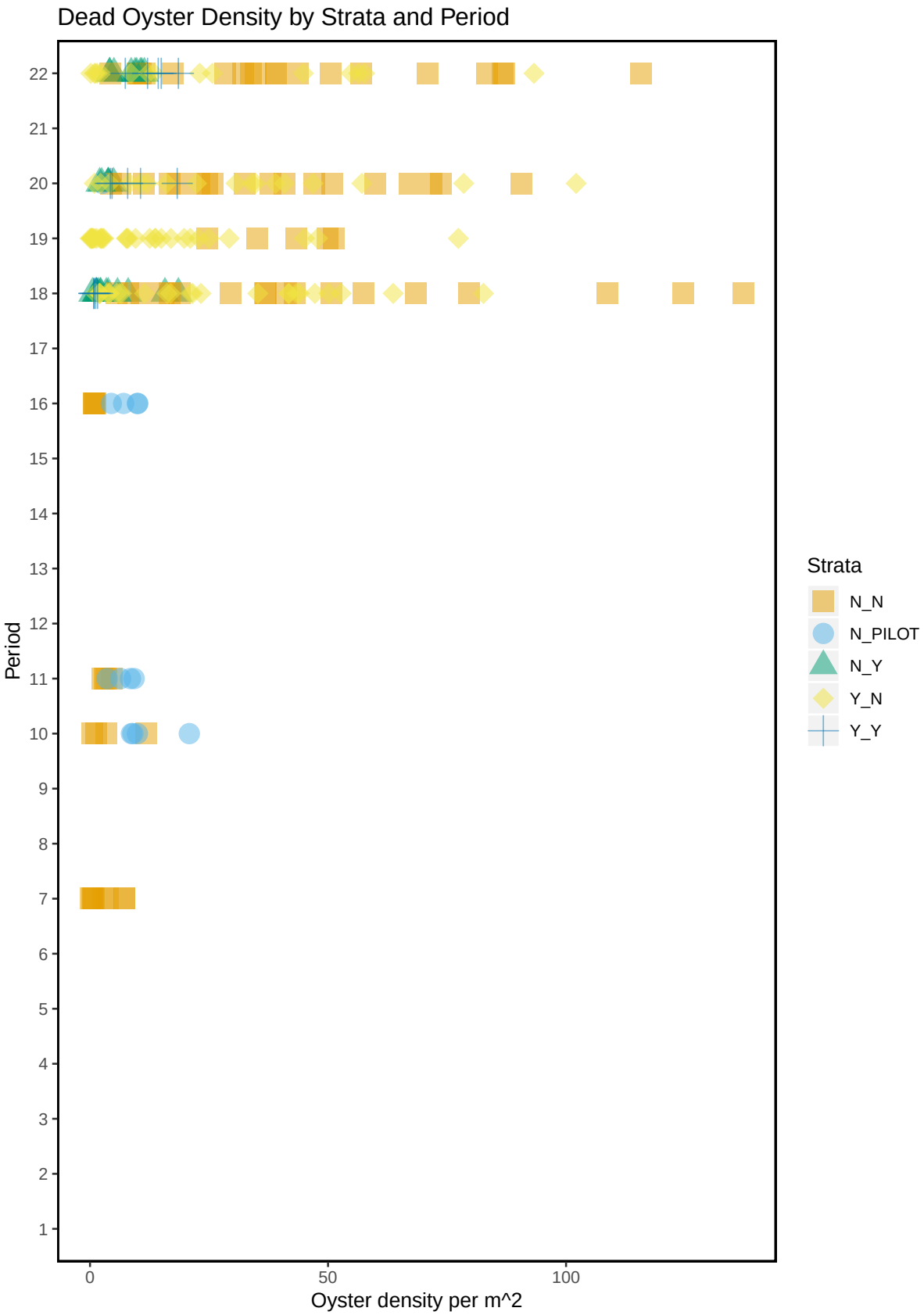


Figure − Live oyster density by strata and period for all periods including period 22 (current period).



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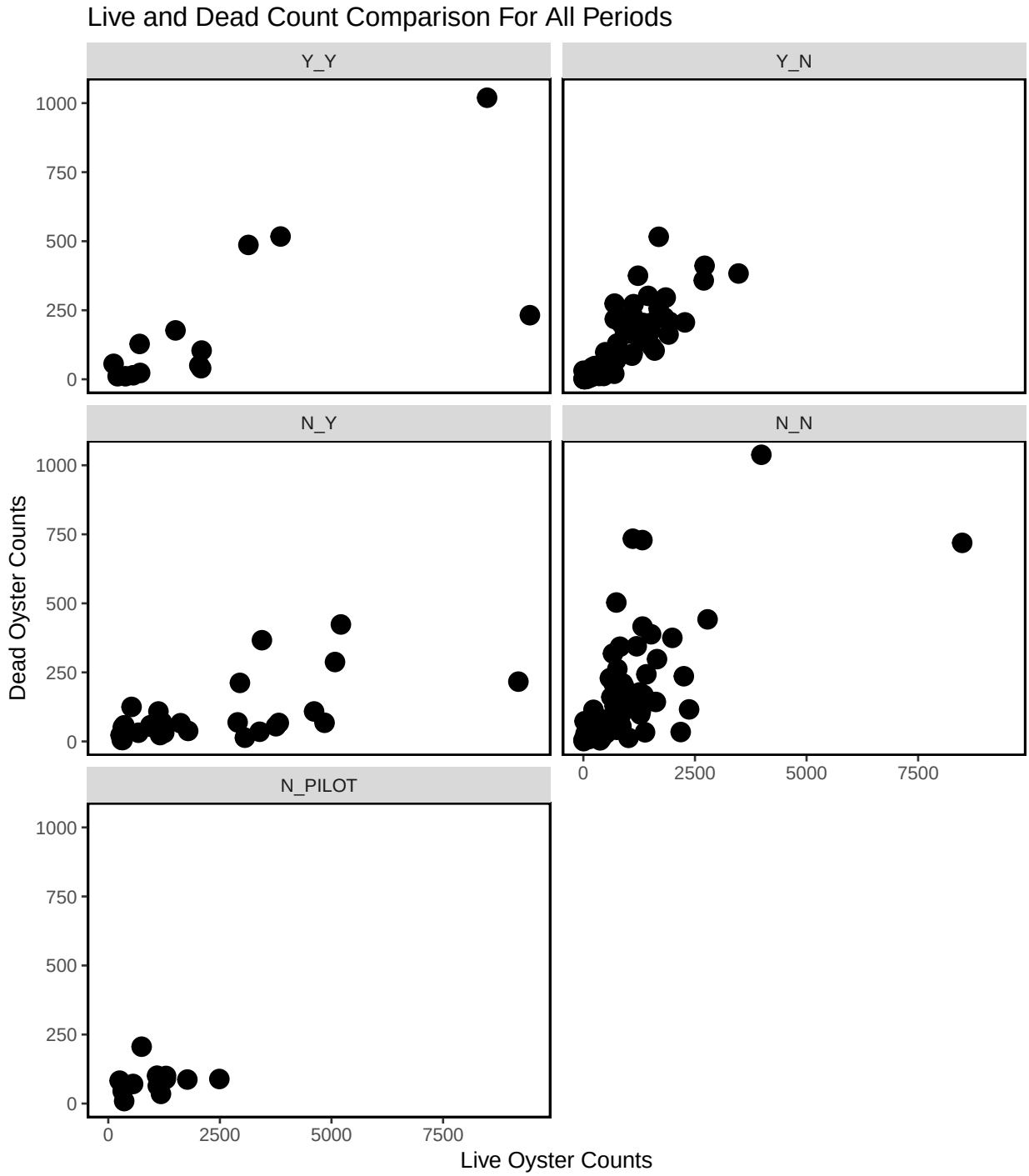

Figure- Live and dead oyster comparison for all periods, last sample date of period 24 is 2021-02-26.

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).

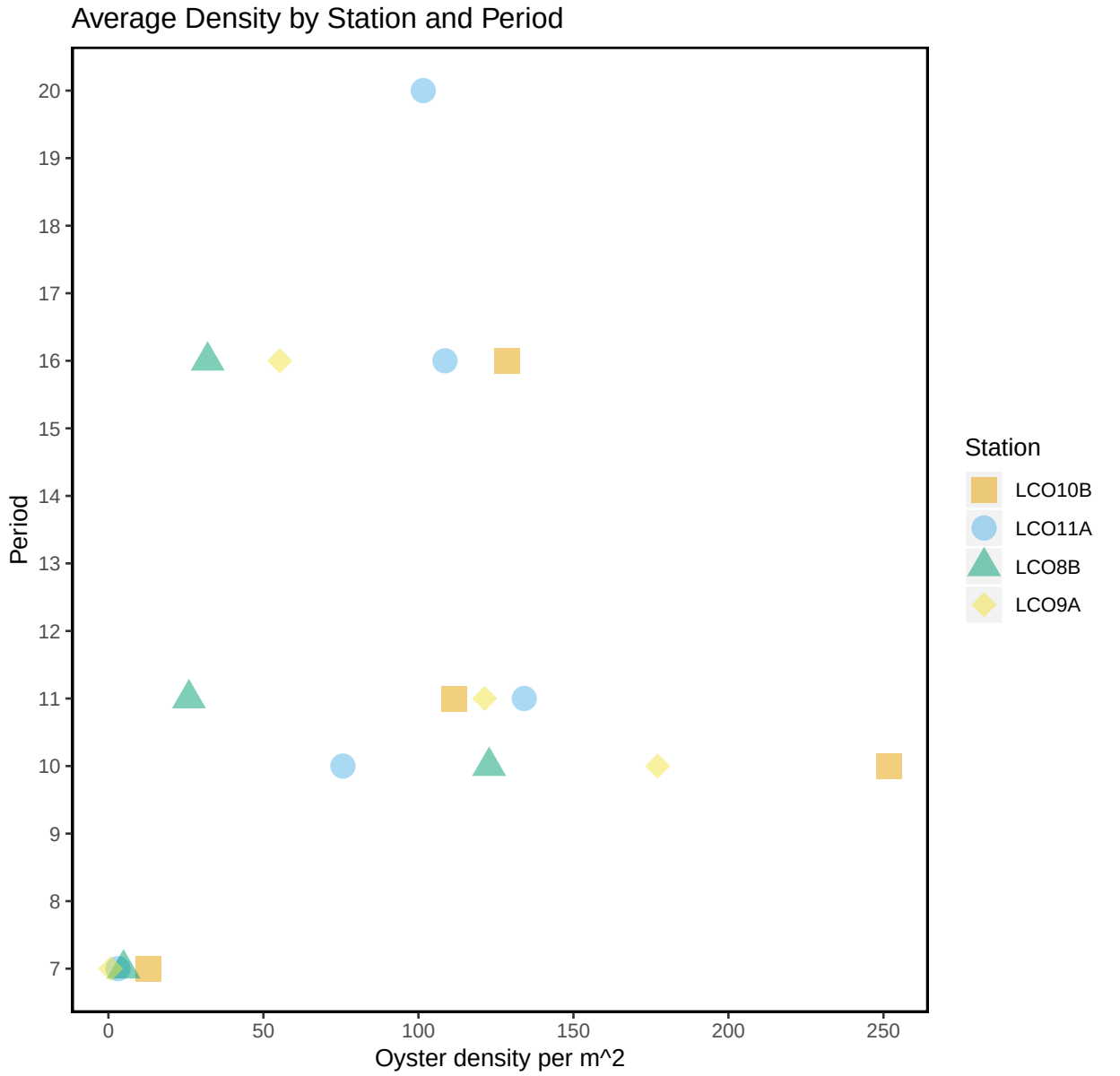

Figure − Average live oyster density comparison by station and period for all stations that were sampled during the pilc

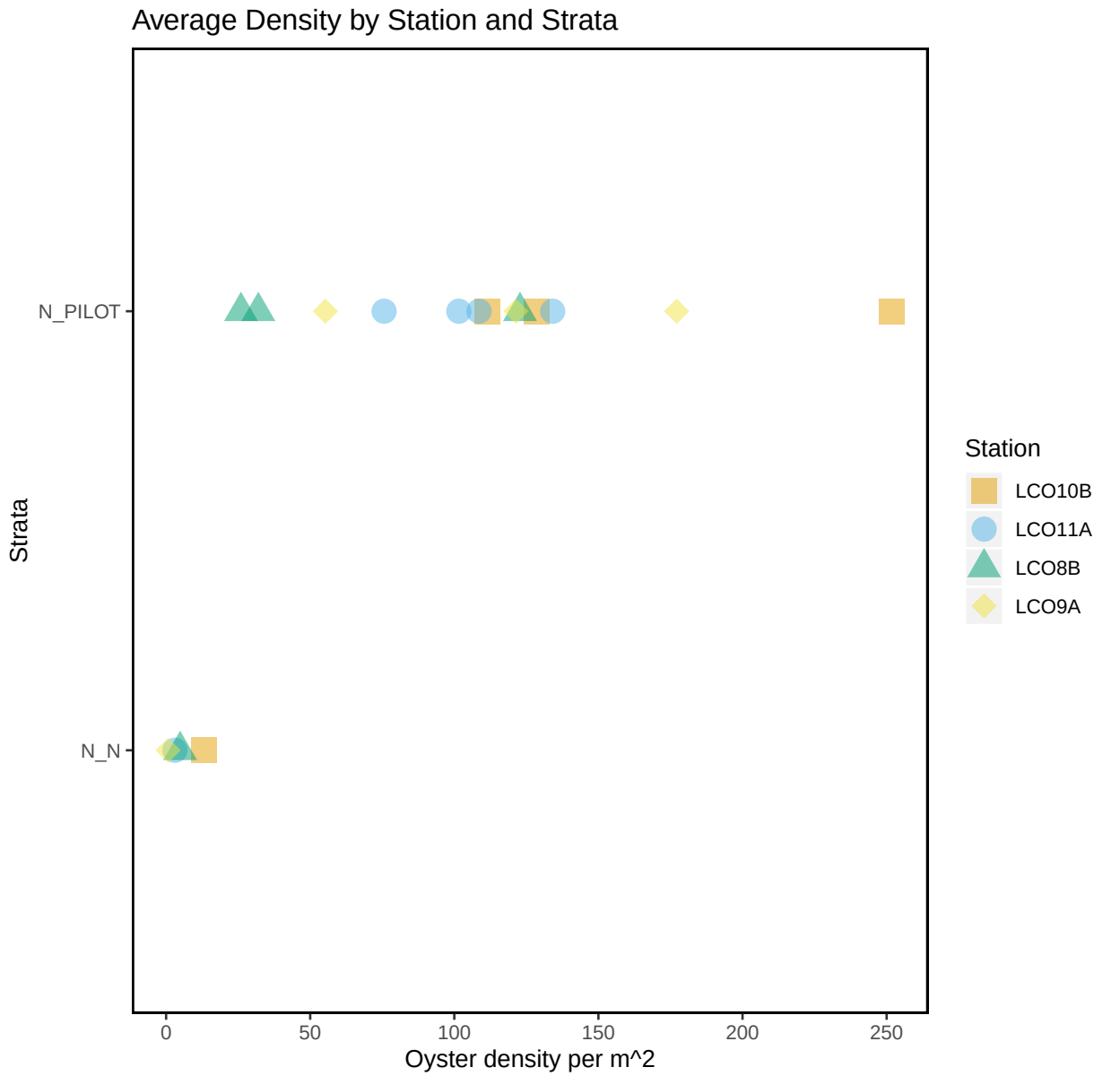

Figure − Average live oyster density comparison by station and strata for all stations that were sampled during th

Latest Data Entered

Displayed are the entries for the last date of sampling (2021-02-26).

date	station	tran_length	count_live	count_dead	treatment	strata
2021-02-26	LCO21	2.5	11	1	rocks	Y_Y
2021-02-26	LCO21	5.0	42	5	rocks	Y_Y
2021-02-26	LCO21	7.5	50	7	rocks	Y_Y
2021-02-26	LCO21	10.0	14	2	rocks	Y_Y
2021-02-26	LCO21	12.5	51	9	rocks	Y_Y
2021-02-26	LCO21	15.0	61	7	rocks	Y_Y
2021-02-26	LCO21	17.5	96	12	rocks	Y_Y
2021-02-26	LCO21	20.0	141	11	rocks	Y_Y
2021-02-26	LCO21	22.5	35	7	rocks	Y_Y
2021-02-26	LCO21	24.4	27	3	rocks	Y_Y
2021-02-26	LCO21	2.5	12	2	rocks	Y_Y
2021-02-26	LCO21	5.0	32	8	rocks	Y_Y
2021-02-26	LCO21	7.5	44	6	rocks	Y_Y
2021-02-26	LCO21	10.0	15	2	rocks	Y_Y
2021-02-26	LCO21	12.5	51	8	rocks	Y_Y
2021-02-26	LCO21	15.0	63	9	rocks	Y_Y
2021-02-26	LCO21	17.5	91	13	rocks	Y_Y
2021-02-26	LCO21	20.0	139	14	rocks	Y_Y
2021-02-26	LCO21	22.5	43	6	rocks	Y_Y
2021-02-26	LCO21	24.4	28	4	rocks	Y_Y
2021-02-26	LCO21	2.5	59	7	rocks	Y_Y
2021-02-26	LCO21	5.0	41	6	rocks	Y_Y
2021-02-26	LCO21	7.5	62	8	rocks	Y_Y
2021-02-26	LCO21	10.0	71	6	rocks	Y_Y
2021-02-26	LCO21	12.5	55	10	rocks	Y_Y
2021-02-26	LCO21	15.0	49	5	rocks	Y_Y
2021-02-26	LCO21	17.5	58	3	rocks	Y_Y
2021-02-26	LCO21	20.0	59	3	rocks	Y_Y
2021-02-26	LCO21	22.5	50	7	rocks	Y_Y
2021-02-26	LCO21	2.5	57	8	rocks	Y_Y
2021-02-26	LCO21	5.0	40	6	rocks	Y_Y
2021-02-26	LCO21	7.5	58	8	rocks	Y_Y
2021-02-26	LCO21	10.0	69	7	rocks	Y_Y
2021-02-26	LCO21	12.5	59	9	rocks	Y_Y
2021-02-26	LCO21	15.0	52	8	rocks	Y_Y
2021-02-26	LCO21	17.5	54	3	rocks	Y_Y
2021-02-26	LCO21	20.0	56	4	rocks	Y_Y
2021-02-26	LCO21	22.5	57	7	rocks	Y_Y