

Gears Effect on Length-Based Assessment of Data-Poor Multi-Species Deep Slope Fisheries in Indonesia

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Table 1: Sample Sizes by Gear Type for All Years

#ID	Species	Ntotal	Ndropline	%drop	Nlongline	%long	Nmixgears	%mix
1	<i>Aphareus rutilans</i>	19249	19123	99	126	1	0	0
2	<i>Aprion virescens</i>	2243	900	40	1343	60	0	0
3	<i>Etelis carbunculus</i>	343	330	96	13	4	0	0
4	<i>Etelis sp.</i>	14014	13907	99	107	1	0	0
5	<i>Etelis radius</i>	4004	3986	100	18	0	0	0
6	<i>Etelis coruscans</i>	10536	10535	100	1	0	0	0
7	<i>Pristipomoides multidens</i>	94897	47020	50	47789	50	88	0
8	<i>Pristipomoides typus</i>	38109	27135	71	10974	29	0	0
9	<i>Pristipomoides filamentosus</i>	26316	25592	97	724	3	0	0
10	<i>Pristipomoides sieboldii</i>	11571	11517	100	54	0	0	0
11	<i>Pristipomoides argyrogrammicus</i>	72	72	100	0	0	0	0
12	<i>Pristipomoides zonatus</i>	80	80	100	0	0	0	0
13	<i>Pristipomoides flavipinnis</i>	538	538	100	0	0	0	0
14	<i>Lutjanus bitaeniatus</i>	583	387	66	196	34	0	0
15	<i>Lutjanus argentimaculatus</i>	2498	1546	62	921	37	31	1
16	<i>Lutjanus bohar</i>	1575	941	60	634	40	0	0
17	<i>Lutjanus malabaricus</i>	48843	11543	24	35333	72	1967	4
18	<i>Lutjanus sebae</i>	7476	1586	21	5828	78	62	1
19	<i>Lutjanus timorensis</i>	8797	6686	76	2092	24	19	0
20	<i>Lutjanus gibbus</i>	1138	972	85	166	15	0	0
21	<i>Lutjanus erythropterus</i>	14378	12182	85	1755	12	441	3
22	<i>Pinjalo lewisi</i>	10268	10205	99	63	1	0	0
23	<i>Pinjalo pinjalo</i>	218	207	95	11	5	0	0
24	<i>Lutjanus johnii</i>	999	159	16	820	82	20	2
25	<i>Lutjanus russelli</i>	671	234	35	436	65	1	0
26	<i>Lutjanus lemniscatus</i>	580	496	86	83	14	1	0
27	<i>Lutjanus vitta</i>	7187	2910	40	4270	59	7	0
28	<i>Lutjanus boutton</i>	453	212	47	241	53	0	0
29	<i>Lutjanus rivulatus</i>	118	40	34	78	66	0	0
30	<i>Lipocheilus carnolabrum</i>	939	896	95	43	5	0	0
31	<i>Symphorus nematophorus</i>	1113	214	19	893	80	6	1
32	<i>Paracaesio gonzalesi</i>	3458	3441	100	17	0	0	0
33	<i>Paracaesio xanthura</i>	1565	1564	100	1	0	0	0
34	<i>Paracaesio kusakarii</i>	16917	16845	100	72	0	0	0
35	<i>Paracaesio stonei</i>	5048	5029	100	19	0	0	0
36	<i>Saloptia powelli</i>	100	100	100	0	0	0	0
37	<i>Cephalopholis miniata</i>	127	94	74	33	26	0	0
38	<i>Cephalopholis sexmaculata</i>	243	210	86	33	14	0	0
39	<i>Cephalopholis sonnerati</i>	2561	1015	40	1546	60	0	0
40	<i>Cephalopholis igarashiensis</i>	183	173	95	10	5	0	0
41	<i>Epinephelus latifasciatus</i>	774	372	48	401	52	1	0
42	<i>Epinephelus radiatus</i>	594	578	97	16	3	0	0
43	<i>Epinephelus morrhua</i>	2625	2060	78	565	22	0	0
44	<i>Epinephelus poecilonotus</i>	347	268	77	79	23	0	0
45	<i>Epinephelus areolatus</i>	33573	16075	48	17467	52	31	0
46	<i>Epinephelus bleekeri</i>	961	416	43	489	51	56	6
47	<i>Epinephelus miliaris</i>	155	150	97	5	3	0	0
48	<i>Epinephelus bilobatus</i>	303	60	20	238	79	5	2
49	<i>Epinephelus malabaricus</i>	166	76	46	87	52	3	2
50	<i>Epinephelus coioides</i>	1299	160	12	1030	79	109	8

Table 2: (Continue from Table 1) Sample Sizes by Gear Type for All Years

#ID	Species	Ntotal	Ndropline	%drop	Nlongline	%long	Nmixgears	%mix
51	<i>Epinephelus chlorostigma</i>	1518	1471	97	47	3	0	0
52	<i>Epinephelus retouti</i>	100	95	95	5	5	0	0
53	<i>Epinephelus heniochus</i>	1014	18	2	996	98	0	0
54	<i>Epinephelus stictus</i>	474	456	96	18	4	0	0
55	<i>Epinephelus epistictus</i>	227	77	34	150	66	0	0
56	<i>Epinephelus multinotatus</i>	335	176	53	159	47	0	0
57	<i>Epinephelus undulosus</i>	300	33	11	267	89	0	0
58	<i>Epinephelus amblycephalus</i>	1465	381	26	1084	74	0	0
59	<i>Hyporthodus octofasciatus</i>	237	225	95	12	5	0	0
60	<i>Plectropomus maculatus</i>	126	28	22	91	72	7	6
61	<i>Plectropomus leopardus</i>	719	182	25	537	75	0	0
62	<i>Variola albimarginata</i>	547	299	55	248	45	0	0
63	<i>Lethrinus atkinsoni</i>	69	54	78	15	22	0	0
64	<i>Lethrinus lentjan</i>	2025	797	39	1195	59	33	2
65	<i>Lethrinus laticaudis</i>	5010	320	6	4234	85	456	9
66	<i>Lethrinus nebulosus</i>	427	321	75	103	24	3	1
67	<i>Lethrinus olivaceus</i>	1904	779	41	1121	59	4	0
68	<i>Lethrinus amboinensis</i>	1531	1199	78	332	22	0	0
69	<i>Lethrinus rubrioperculatus</i>	156	106	68	50	32	0	0
70	<i>Wattsia mossambica</i>	4934	4832	98	102	2	0	0
71	<i>Gymnocranius grandoculis</i>	8417	3417	41	5000	59	0	0
72	<i>Gymnocranius griseus</i>	1316	573	44	743	56	0	0
73	<i>Carangoides coeruleopinnatus</i>	863	487	56	376	44	0	0
74	<i>Carangoides fulvoguttatus</i>	231	50	22	181	78	0	0
75	<i>Carangoides malabaricus</i>	412	244	59	166	40	2	0
76	<i>Carangoides chrysophrys</i>	2702	1583	59	1119	41	0	0
77	<i>Carangoides gymnostethus</i>	924	528	57	395	43	1	0
78	<i>Caranx bucculentus</i>	2841	175	6	2608	92	58	2
79	<i>Caranx ignobilis</i>	497	70	14	427	86	0	0
80	<i>Caranx lugubris</i>	133	132	99	1	1	0	0
81	<i>Caranx sexfasciatus</i>	1440	1283	89	156	11	1	0
82	<i>Caranx tille</i>	946	752	79	194	21	0	0
83	<i>Elagatis bipinnulata</i>	948	938	99	10	1	0	0
84	<i>Seriola dumerili</i>	353	311	88	42	12	0	0
85	<i>Seriola rivoliana</i>	2320	2145	92	175	8	0	0
86	<i>Erythrocles schlegelii</i>	2930	2929	100	1	0	0	0
87	<i>Argyrops spinifer</i>	1221	700	57	521	43	0	0
88	<i>Dentex carpenteri</i>	1055	946	90	109	10	0	0
89	<i>Glaucosoma buergeri</i>	2390	2066	86	324	14	0	0
90	<i>Diagramma labiosum</i>	899	311	35	588	65	0	0
91	<i>Diagramma pictum</i>	2184	78	4	1991	91	115	5
92	<i>Pomadasys kaakan</i>	4116	28	1	4087	99	1	0
93	<i>Cookeolus japonicus</i>	1040	1018	98	22	2	0	0
94	<i>Sphyraena barracuda</i>	272	66	24	198	73	8	3
95	<i>Sphyraena forsteri</i>	154	117	76	37	24	0	0
96	<i>Sphyraena putnamae</i>	410	379	92	29	7	2	0
97	<i>Parascolopsis eriomma</i>	393	363	92	30	8	0	0
98	<i>Ostichthys japonicus</i>	257	59	23	198	77	0	0
99	<i>Rachycentron canadum</i>	456	75	16	358	79	23	5
100	<i>Protonibea diacanthus</i>	881	85	10	792	90	4	0

Table 3: Ranking, Sample Sizes and Sample Weights over All Years for 50 Most Abundant Species in Indonesian Dropline Fisheries

Rank	#ID	Species	N	Cum N	%N	Cum %N	W (Kg)	Cum W	%W	Cum %W
1	7	<i>Pristipomoides multidens</i>	47020	47020	15.96	15.96	85423	85423	16.51	16.51
2	8	<i>Pristipomoides typus</i>	27135	74155	9.21	25.17	33728	119151	6.52	23.03
3	9	<i>Pristipomoides filamentosus</i>	25592	99747	8.69	33.86	38091	157243	7.36	30.40
4	1	<i>Aphareus rutilans</i>	19123	118870	6.49	40.35	58861	216104	11.38	41.77
5	34	<i>Paracaesio kusakarii</i>	16845	135715	5.72	46.07	29007	245111	5.61	47.38
6	45	<i>Epinephelus areolatus</i>	16075	151790	5.46	51.53	8120	253231	1.57	48.95
7	4	<i>Etelis sp.</i>	13907	165697	4.72	56.25	48664	301895	9.41	58.36
8	21	<i>Lutjanus erythropterus</i>	12182	177879	4.14	60.38	26742	328637	5.17	63.53
9	17	<i>Lutjanus malabaricus</i>	11543	189422	3.92	64.30	27184	355821	5.25	68.78
10	10	<i>Pristipomoides sieboldii</i>	11517	200939	3.91	68.21	7438	363259	1.44	70.22
11	6	<i>Etelis coruscans</i>	10535	211474	3.58	71.78	19733	382993	3.81	74.03
12	22	<i>Pinjalo lewisi</i>	10205	221679	3.46	75.25	5791	388783	1.12	75.15
13	19	<i>Lutjanus timorensis</i>	6686	228365	2.27	77.52	5876	394660	1.14	76.29
14	35	<i>Paracaesio stonei</i>	5029	233394	1.71	79.23	6668	401328	1.29	77.58
15	70	<i>Wattsia mossambica</i>	4832	238226	1.64	80.87	4691	406019	0.91	78.48
16	5	<i>Etelis radius</i>	3986	242212	1.35	82.22	10327	416346	2.00	80.48
17	32	<i>Paracaesio gonzalesi</i>	3441	245653	1.17	83.39	3880	420226	0.75	81.23
18	71	<i>Gymnocranius grandoculis</i>	3417	249070	1.16	84.55	6201	426427	1.20	82.43
19	86	<i>Erythrocles schlegelii</i>	2929	251999	0.99	85.54	6816	433243	1.32	83.75
20	27	<i>Lutjanus vitta</i>	2910	254909	0.99	86.53	1097	434340	0.21	83.96
21	85	<i>Seriola rivoliana</i>	2145	257054	0.73	87.26	8272	442612	1.60	85.56
22	89	<i>Glaucosoma buergeri</i>	2066	259120	0.70	87.96	3558	446171	0.69	86.24
23	43	<i>Epinephelus morrhua</i>	2060	261180	0.70	88.66	1944	448115	0.38	86.62
24	18	<i>Lutjanus sebae</i>	1586	262766	0.54	89.20	3633	451747	0.70	87.32
25	76	<i>Carangoides chrysophrys</i>	1583	264349	0.54	89.73	3201	454948	0.62	87.94
26	33	<i>Paracaesio xanthura</i>	1564	265913	0.53	90.26	1310	456259	0.25	88.19
27	15	<i>Lutjanus argentimaculatus</i>	1546	267459	0.52	90.79	5331	461590	1.03	89.23
28	51	<i>Epinephelus chlorostigma</i>	1471	268930	0.50	91.29	1583	463172	0.31	89.53
29	81	<i>Caranx sexfasciatus</i>	1283	270213	0.44	91.72	5020	468193	0.97	90.50
30	68	<i>Lethrinus amboinensis</i>	1199	271412	0.41	92.13	1009	469202	0.20	90.70
31	93	<i>Cookeolus japonicus</i>	1018	272430	0.35	92.48	1221	470422	0.24	90.93
32	39	<i>Cephalopholis sonnerati</i>	1015	273445	0.34	92.82	778	471200	0.15	91.08
33	20	<i>Lutjanus gibbus</i>	972	274417	0.33	93.15	727	471928	0.14	91.22
34	88	<i>Dentex carpenteri</i>	946	275363	0.32	93.47	537	472464	0.10	91.33
35	16	<i>Lutjanus bohar</i>	941	276304	0.32	93.79	2746	475210	0.53	91.86
36	83	<i>Elagatis bipinnulata</i>	938	277242	0.32	94.11	2199	477410	0.43	92.28
37	2	<i>Aprion virescens</i>	900	278142	0.31	94.42	3704	481114	0.72	93.00
38	30	<i>Lipocheilus carnolabrum</i>	896	279038	0.30	94.72	1828	482942	0.35	93.35
39	64	<i>Lethrinus lentjan</i>	797	279835	0.27	94.99	719	483661	0.14	93.49
40	67	<i>Lethrinus olivaceus</i>	779	280614	0.26	95.25	3164	486825	0.61	94.10
41	82	<i>Caranx tille</i>	752	281366	0.26	95.51	3311	490136	0.64	94.74
42	87	<i>Argyrops spinifer</i>	700	282066	0.24	95.75	400	490536	0.08	94.82
43	42	<i>Epinephelus radiatus</i>	578	282644	0.20	95.94	903	491440	0.17	95.00
44	72	<i>Gymnocranius griseus</i>	573	283217	0.19	96.14	336	491775	0.06	95.06
45	13	<i>Pristipomoides flavipinnis</i>	538	283755	0.18	96.32	438	492213	0.08	95.14
46	77	<i>Carangoides gymnostethus</i>	528	284283	0.18	96.50	1396	493609	0.27	95.41
47	26	<i>Lutjanus lemniscatus</i>	496	284779	0.17	96.67	570	494179	0.11	95.52
48	73	<i>Carangoides coeruleopinnatus</i>	487	285266	0.17	96.83	1129	495308	0.22	95.74
49	54	<i>Epinephelus stictus</i>	456	285722	0.15	96.99	315	495623	0.06	95.80
50	46	<i>Epinephelus bleekeri</i>	416	286138	0.14	97.13	846	496468	0.16	95.97

Table 4: Ranking, Sample Sizes and Sample Weights over All Years for 50 Most Abundant Species in Indonesian Longline Fisheries

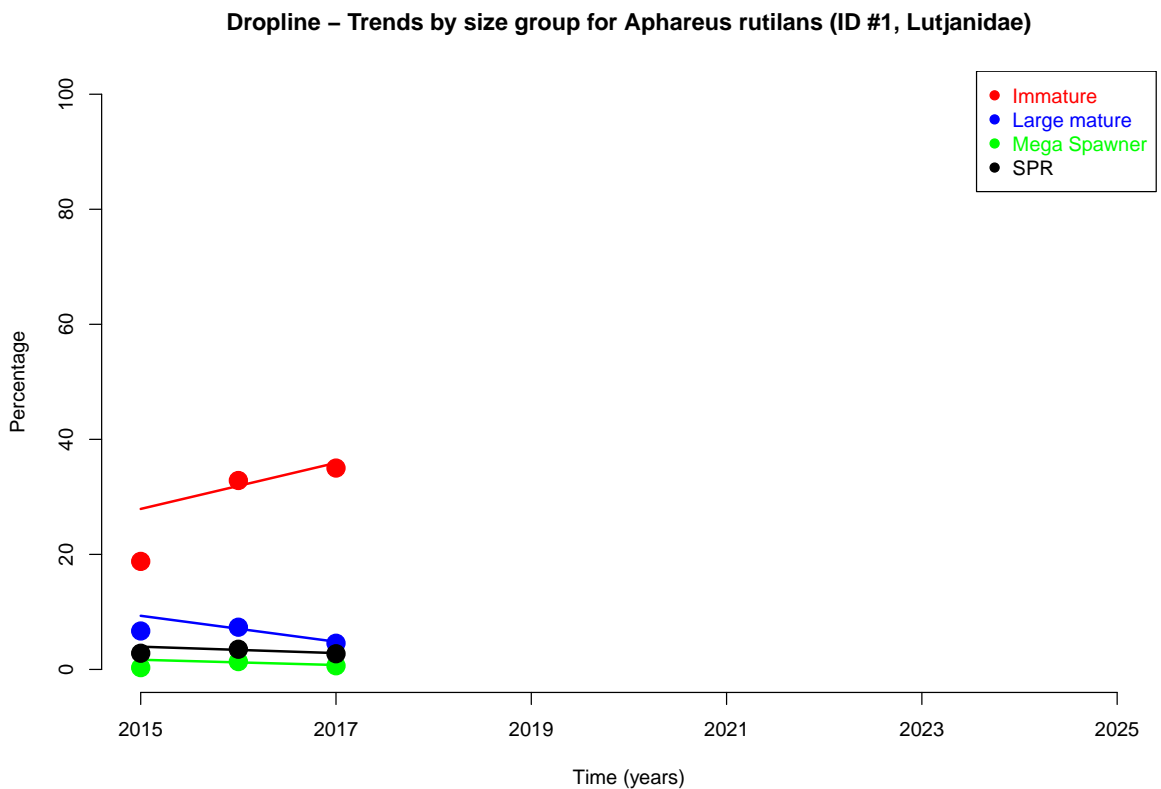
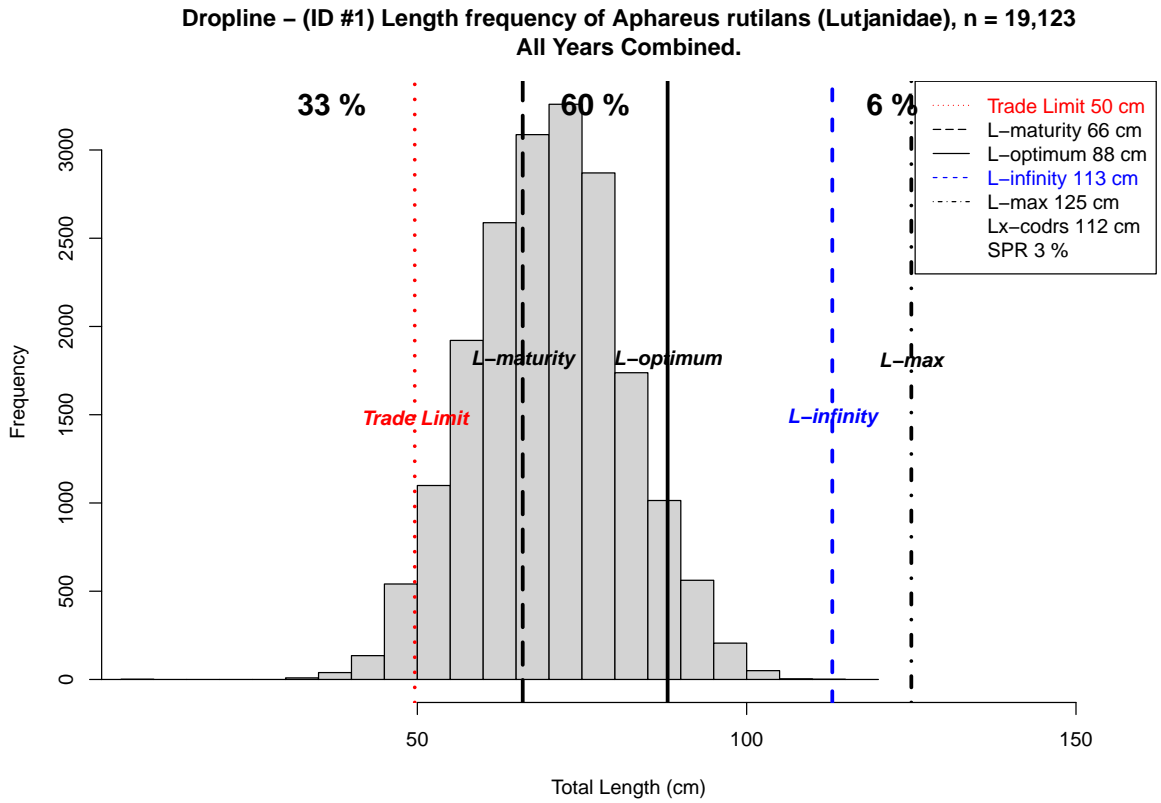
Rank	#ID	Species	N	Cum N	%N	Cum %N	W (Kg)	Cum W	%W	Cum %W
1	7	<i>Pristipomoides multidens</i>	47789	47789	28.32	28.32	97282	97282	26.84	26.84
2	17	<i>Lutjanus malabaricus</i>	35333	83122	20.94	49.25	116174	213456	32.05	58.89
3	45	<i>Epinephelus areolatus</i>	17467	100589	10.35	59.60	7354	220810	2.03	60.91
4	8	<i>Pristipomoides typus</i>	10974	111563	6.50	66.11	16854	237664	4.65	65.56
5	18	<i>Lutjanus sebae</i>	5828	117391	3.45	69.56	13969	251633	3.85	69.42
6	71	<i>Gymnocranius grandoculis</i>	5000	122391	2.96	72.52	9932	261564	2.74	72.16
7	27	<i>Lutjanus vitta</i>	4270	126661	2.53	75.05	1787	263352	0.49	72.65
8	65	<i>Lethrinus laticaudis</i>	4234	130895	2.51	77.56	8860	272212	2.44	75.09
9	92	<i>Pomadasys kaakan</i>	4087	134982	2.42	79.98	6333	278545	1.75	76.84
10	78	<i>Caranx bucculentus</i>	2608	137590	1.55	81.53	3586	282130	0.99	77.83
11	19	<i>Lutjanus timorensis</i>	2092	139682	1.24	82.77	2222	284352	0.61	78.44
12	91	<i>Diagramma pictum</i>	1991	141673	1.18	83.95	4463	288815	1.23	79.67
13	21	<i>Lutjanus erythropterus</i>	1755	143428	1.04	84.99	4293	293108	1.18	80.86
14	39	<i>Cephalopholis sonnerati</i>	1546	144974	0.92	85.90	1557	294665	0.43	81.29
15	2	<i>Aprion virescens</i>	1343	146317	0.80	86.70	6085	300749	1.68	82.97
16	64	<i>Lethrinus lentjan</i>	1195	147512	0.71	87.41	1253	302003	0.35	83.31
17	67	<i>Lethrinus olivaceus</i>	1121	148633	0.66	88.07	5270	307272	1.45	84.77
18	76	<i>Carangoides chrysophrys</i>	1119	149752	0.66	88.73	2255	309527	0.62	85.39
19	58	<i>Epinephelus amblycephalus</i>	1084	150836	0.64	89.38	3062	312589	0.84	86.23
20	50	<i>Epinephelus coioides</i>	1030	151866	0.61	89.99	6263	318853	1.73	87.96
21	53	<i>Epinephelus heniochus</i>	996	152862	0.59	90.58	1220	320073	0.34	88.30
22	15	<i>Lutjanus argentimaculatus</i>	921	153783	0.55	91.12	3941	324014	1.09	89.38
23	31	<i>Symphorus nematophorus</i>	893	154676	0.53	91.65	6406	330420	1.77	91.15
24	24	<i>Lutjanus johnii</i>	820	155496	0.49	92.14	2247	332667	0.62	91.77
25	100	<i>Protonibea diacanthus</i>	792	156288	0.47	92.61	2366	335033	0.65	92.42
26	72	<i>Gymnocranius griseus</i>	743	157031	0.44	93.05	488	335521	0.13	92.56
27	9	<i>Pristipomoides filamentosus</i>	724	157755	0.43	93.48	1215	336736	0.34	92.89
28	16	<i>Lutjanus bohar</i>	634	158389	0.38	93.85	2044	338780	0.56	93.46
29	90	<i>Diagramma labiosum</i>	588	158977	0.35	94.20	1263	340043	0.35	93.81
30	43	<i>Epinephelus morrhua</i>	565	159542	0.33	94.54	551	340594	0.15	93.96
31	61	<i>Plectropomus leopardus</i>	537	160079	0.32	94.85	1198	341792	0.33	94.29
32	87	<i>Argyrops spinifer</i>	521	160600	0.31	95.16	382	342175	0.11	94.39
33	46	<i>Epinephelus bleekeri</i>	489	161089	0.29	95.45	1509	343684	0.42	94.81
34	25	<i>Lutjanus russelli</i>	436	161525	0.26	95.71	335	344018	0.09	94.90
35	79	<i>Caranx ignobilis</i>	427	161952	0.25	95.96	2366	346384	0.65	95.56
36	41	<i>Epinephelus latifasciatus</i>	401	162353	0.24	96.20	1620	348004	0.45	96.00
37	77	<i>Carangoides gymnostethus</i>	395	162748	0.23	96.44	837	348841	0.23	96.23
38	73	<i>Carangoides coeruleopinnatus</i>	376	163124	0.22	96.66	792	349633	0.22	96.45
39	99	<i>Rachycentron canadum</i>	358	163482	0.21	96.87	723	350356	0.20	96.65
40	68	<i>Lethrinus amboinensis</i>	332	163814	0.20	97.07	295	350652	0.08	96.73
41	89	<i>Glaucosoma buergeri</i>	324	164138	0.19	97.26	665	351316	0.18	96.92
42	57	<i>Epinephelus undulosus</i>	267	164405	0.16	97.42	776	352093	0.21	97.13
43	62	<i>Variola albimarginata</i>	248	164653	0.15	97.56	120	352213	0.03	97.16
44	28	<i>Lutjanus bouton</i>	241	164894	0.14	97.71	131	352344	0.04	97.20
45	48	<i>Epinephelus bilobatus</i>	238	165132	0.14	97.85	260	352604	0.07	97.27
46	94	<i>Sphyræna barracuda</i>	198	165330	0.12	97.97	747	353351	0.21	97.48
47	98	<i>Ostichthys japonicus</i>	198	165528	0.12	98.08	171	353522	0.05	97.52
48	14	<i>Lutjanus bitaeniatus</i>	196	165724	0.12	98.20	109	353632	0.03	97.56
49	82	<i>Caranx tille</i>	194	165918	0.11	98.31	818	354450	0.23	97.78
50	74	<i>Carangoides fulvoguttatus</i>	181	166099	0.11	98.42	623	355074	0.17	97.95

Table 5: Ranking, Sample Sizes and Sample Weights over All Years for 100 Most Abundant Species in Indonesian Deep Slope Hook and Line Fisheries

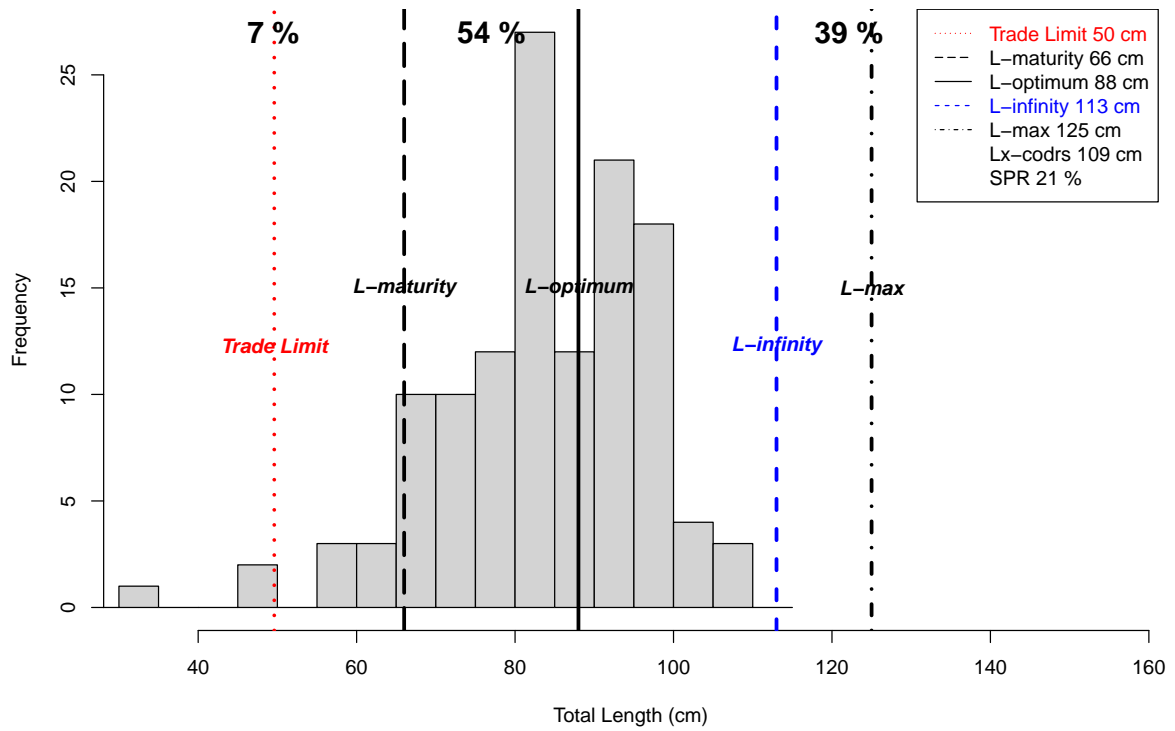
Rank	#ID	Species	N	Cum N	%N	Cum %N	W (Kg)	Cum W	%W	Cum %W
1	7	<i>Pristipomoides multidentis</i>	94897	94897	20.32	20.32	182885	182885	20.55	20.55
2	17	<i>Lutjanus malabaricus</i>	48843	143740	10.46	30.78	149786	332671	16.83	37.38
3	8	<i>Pristipomoides typus</i>	38109	181849	8.16	38.95	50582	383253	5.68	43.06
4	45	<i>Epinephelus areolatus</i>	33573	215422	7.19	46.14	15485	398739	1.74	44.80
5	9	<i>Pristipomoides filamentosus</i>	26316	241738	5.64	51.77	39307	438046	4.42	49.22
6	1	<i>Aphareus rutilans</i>	19249	260987	4.12	55.89	59504	497550	6.69	55.90
7	34	<i>Paracaesio kusakarii</i>	16917	277904	3.62	59.52	29121	526671	3.27	59.18
8	21	<i>Lutjanus erythropterus</i>	14378	292282	3.08	62.60	31854	558524	3.58	62.76
9	4	<i>Etelis sp.</i>	14014	306296	3.00	65.60	49003	607527	5.51	68.26
10	10	<i>Pristipomoides sieboldii</i>	11571	317867	2.48	68.08	7473	615001	0.84	69.10
11	6	<i>Etelis coruscans</i>	10536	328403	2.26	70.33	19735	634735	2.22	71.32
12	22	<i>Pinjalo lewisi</i>	10268	338671	2.20	72.53	5839	640574	0.66	71.97
13	19	<i>Lutjanus timorensis</i>	8797	347468	1.88	74.42	8125	648699	0.91	72.89
14	71	<i>Gymnocranius grandoculis</i>	8417	355885	1.80	76.22	16133	664832	1.81	74.70
15	18	<i>Lutjanus sebae</i>	7476	363361	1.60	77.82	17758	682590	2.00	76.70
16	27	<i>Lutjanus vitta</i>	7187	370548	1.54	79.36	2887	685476	0.32	77.02
17	35	<i>Paracaesio stonei</i>	5048	375596	1.08	80.44	6693	692169	0.75	77.77
18	65	<i>Lethrinus laticaudis</i>	5010	380606	1.07	81.51	10376	702545	1.17	78.94
19	70	<i>Wattsia mossambica</i>	4934	385540	1.06	82.57	4798	707343	0.54	79.48
20	92	<i>Pomadasyds kaakan</i>	4116	389656	0.88	83.45	6387	713730	0.72	80.19
21	5	<i>Etelis radiusus</i>	4004	393660	0.86	84.31	10380	724110	1.17	81.36
22	32	<i>Paracaesio gonzalesi</i>	3458	397118	0.74	85.05	3899	728009	0.44	81.80
23	86	<i>Erythrocles schlegelii</i>	2930	400048	0.63	85.68	6818	734828	0.77	82.56
24	78	<i>Caranx bucculentus</i>	2841	402889	0.61	86.29	4146	738974	0.47	83.03
25	76	<i>Carangoides chrysophrys</i>	2702	405591	0.58	86.86	5456	744430	0.61	83.64
26	43	<i>Epinephelus morrhua</i>	2625	408216	0.56	87.43	2495	746925	0.28	83.92
27	39	<i>Cephalopholis sonnerati</i>	2561	410777	0.55	87.98	2335	749260	0.26	84.19
28	15	<i>Lutjanus argentimaculatus</i>	2498	413275	0.53	88.51	9383	758643	1.05	85.24
29	89	<i>Glaucosoma buengeri</i>	2390	415665	0.51	89.02	4223	762866	0.47	85.72
30	85	<i>Seriola rivoliana</i>	2320	417985	0.50	89.52	9115	771982	1.02	86.74
31	2	<i>Aprion virescens</i>	2243	420228	0.48	90.00	9789	781770	1.10	87.84
32	91	<i>Diagramma pictum</i>	2184	422412	0.47	90.47	4822	786593	0.54	88.38
33	64	<i>Lethrinus lentjan</i>	2025	424437	0.43	90.90	1987	788580	0.22	88.60
34	67	<i>Lethrinus olivaceus</i>	1904	426341	0.41	91.31	8445	797025	0.95	89.55
35	16	<i>Lutjanus bohar</i>	1575	427916	0.34	91.65	4790	801815	0.54	90.09
36	33	<i>Paracaesio xanthura</i>	1565	429481	0.34	91.98	1312	803126	0.15	90.24
37	68	<i>Lethrinus amboinensis</i>	1531	431012	0.33	92.31	1304	804430	0.15	90.39
38	51	<i>Epinephelus chlorostigma</i>	1518	432530	0.33	92.63	1643	806074	0.18	90.57
39	58	<i>Epinephelus amblycephalus</i>	1465	433995	0.31	92.95	4061	810134	0.46	91.03
40	81	<i>Caranx sexfasciatus</i>	1440	435435	0.31	93.26	5695	815829	0.64	91.67
41	72	<i>Gymnocranius griseus</i>	1316	436751	0.28	93.54	824	816653	0.09	91.76
42	50	<i>Epinephelus coioides</i>	1299	438050	0.28	93.82	8312	824966	0.93	92.69
43	87	<i>Argyrops spinifer</i>	1221	439271	0.26	94.08	782	825748	0.09	92.78
44	20	<i>Lutjanus gibbus</i>	1138	440409	0.24	94.32	869	826617	0.10	92.88
45	31	<i>Symphorus nematophorus</i>	1113	441522	0.24	94.56	7543	834160	0.85	93.73
46	88	<i>Dentex carpenteri</i>	1055	442577	0.23	94.79	598	834758	0.07	93.79
47	93	<i>Cookeolus japonicus</i>	1040	443617	0.22	95.01	1235	835993	0.14	93.93
48	53	<i>Epinephelus heniochus</i>	1014	444631	0.22	95.23	1235	837228	0.14	94.07
49	24	<i>Lutjanus johnii</i>	999	445630	0.21	95.44	2547	839775	0.29	94.36
50	46	<i>Epinephelus bleekeri</i>	961	446591	0.21	95.65	2485	842261	0.28	94.64

Table 6: (Continued from Table 5) Ranking, Sample Sizes and Sample Weights over All Years for 100 Most Abundant Species in Indonesian Deep Slope Hook and Line Fisheries

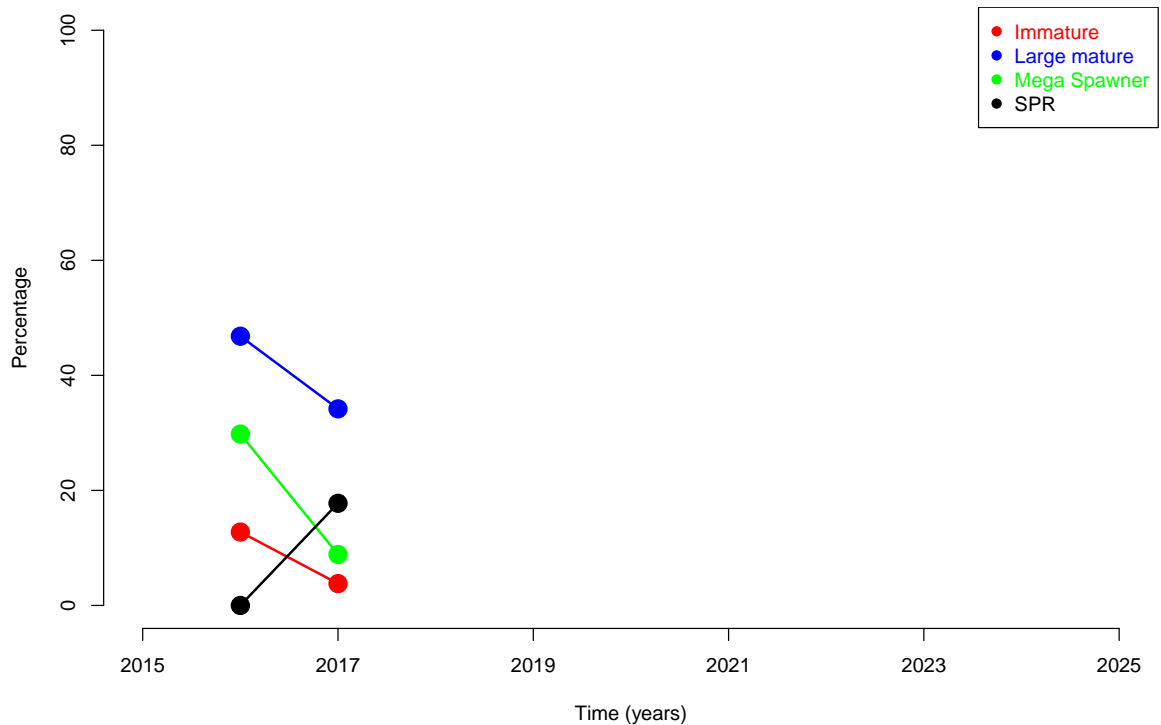
Rank	#ID	Species	N	Cum N	%N	Cum %N	W (Kg)	Cum W	%W	Cum %W
51	83	<i>Elagatis bipinnulata</i>	948	447539	0.20	95.85	2229	844490	0.25	94.89
52	82	<i>Caranx tille</i>	946	448485	0.20	96.05	4130	848619	0.46	95.35
53	30	<i>Lipocheilus carnolabrum</i>	939	449424	0.20	96.25	1910	850529	0.21	95.57
54	77	<i>Carangoides gymnostethus</i>	924	450348	0.20	96.45	2238	852767	0.25	95.82
55	90	<i>Diagramma labiosum</i>	899	451247	0.19	96.64	1782	854549	0.20	96.02
56	100	<i>Protonibeia diacanthus</i>	881	452128	0.19	96.83	2707	857256	0.30	96.32
57	73	<i>Carangoides coeruleopinnatus</i>	863	452991	0.18	97.02	1921	859177	0.22	96.54
58	41	<i>Epinephelus latifasciatus</i>	774	453765	0.17	97.18	3545	862722	0.40	96.94
59	61	<i>Plectropomus leopardus</i>	719	454484	0.15	97.34	1653	864375	0.19	97.12
60	25	<i>Lutjanus russelli</i>	671	455155	0.14	97.48	497	864873	0.06	97.18
61	42	<i>Epinephelus radiatus</i>	594	455749	0.13	97.61	924	865796	0.10	97.28
62	14	<i>Lutjanus bitaeniatus</i>	583	456332	0.12	97.73	298	866094	0.03	97.31
63	26	<i>Lutjanus lemniscatus</i>	580	456912	0.12	97.86	685	866778	0.08	97.39
64	62	<i>Variola albimarginata</i>	547	457459	0.12	97.97	280	867058	0.03	97.42
65	13	<i>Pristipomoides flavipinnis</i>	538	457997	0.12	98.09	438	867496	0.05	97.47
66	79	<i>Caranx ignobilis</i>	497	458494	0.11	98.19	2609	870105	0.29	97.76
67	54	<i>Epinephelus stictus</i>	474	458968	0.10	98.30	327	870432	0.04	97.80
68	99	<i>Rachycentron canadum</i>	456	459424	0.10	98.39	984	871417	0.11	97.91
69	28	<i>Lutjanus bouton</i>	453	459877	0.10	98.49	256	871673	0.03	97.94
70	66	<i>Lethrinus nebulosus</i>	427	460304	0.09	98.58	1033	872706	0.12	98.06
71	75	<i>Carangoides malabaricus</i>	412	460716	0.09	98.67	817	873523	0.09	98.15
72	96	<i>Sphyraena putnamae</i>	410	461126	0.09	98.76	584	874107	0.07	98.21
73	97	<i>Parascolopsis eriomma</i>	393	461519	0.08	98.84	74	874181	0.01	98.22
74	84	<i>Seriola dumerili</i>	353	461872	0.08	98.92	2276	876457	0.26	98.48
75	44	<i>Epinephelus poecilnotus</i>	347	462219	0.07	98.99	814	877271	0.09	98.57
76	3	<i>Etelis carbunculus</i>	343	462562	0.07	99.07	326	877596	0.04	98.61
77	56	<i>Epinephelus multinotatus</i>	335	462897	0.07	99.14	1406	879002	0.16	98.76
78	48	<i>Epinephelus bilobatus</i>	303	463200	0.06	99.20	320	879323	0.04	98.80
79	57	<i>Epinephelus undulosus</i>	300	463500	0.06	99.27	879	880202	0.10	98.90
80	94	<i>Sphyraena barracuda</i>	272	463772	0.06	99.32	1057	881259	0.12	99.02
81	98	<i>Ostichthys japonicus</i>	257	464029	0.06	99.38	218	881477	0.02	99.04
82	38	<i>Cephalopholis sexmaculata</i>	243	464272	0.05	99.43	133	881610	0.01	99.06
83	59	<i>Hyporthodus octofasciatus</i>	237	464509	0.05	99.48	2746	884357	0.31	99.37
84	74	<i>Carangoides fulvoguttatus</i>	231	464740	0.05	99.53	748	885105	0.08	99.45
85	55	<i>Epinephelus epistictus</i>	227	464967	0.05	99.58	601	885706	0.07	99.52
86	23	<i>Pinjalo pinjalo</i>	218	465185	0.05	99.63	458	886164	0.05	99.57
87	40	<i>Cephalopholis igarashiensis</i>	183	465368	0.04	99.67	101	886266	0.01	99.58
88	49	<i>Epinephelus malabaricus</i>	166	465534	0.04	99.70	1713	887979	0.19	99.77
89	69	<i>Lethrinus rubrioperculatus</i>	156	465690	0.03	99.74	78	888057	0.01	99.78
90	47	<i>Epinephelus miliaris</i>	155	465845	0.03	99.77	131	888188	0.01	99.80
91	95	<i>Sphyraena forsteri</i>	154	465999	0.03	99.80	64	888252	0.01	99.80
92	80	<i>Caranx lugubris</i>	133	466132	0.03	99.83	322	888574	0.04	99.84
93	37	<i>Cephalopholis miniata</i>	127	466259	0.03	99.86	59	888633	0.01	99.85
94	60	<i>Plectropomus maculatus</i>	126	466385	0.03	99.88	453	889086	0.05	99.90
95	29	<i>Lutjanus rivulatus</i>	118	466503	0.03	99.91	591	889677	0.07	99.96
96	36	<i>Saloptia powelli</i>	100	466603	0.02	99.93	100	889776	0.01	99.97
97	52	<i>Epinephelus retouti</i>	100	466703	0.02	99.95	69	889845	0.01	99.98
98	12	<i>Pristipomoides zonatus</i>	80	466783	0.02	99.97	71	889917	0.01	99.99
99	11	<i>Pristipomoides argyrogrammicus</i>	72	466855	0.02	99.99	33	889950	0.00	99.99
100	63	<i>Lethrinus atkinsoni</i>	69	466924	0.01	100.00	50	890000	0.01	100.00



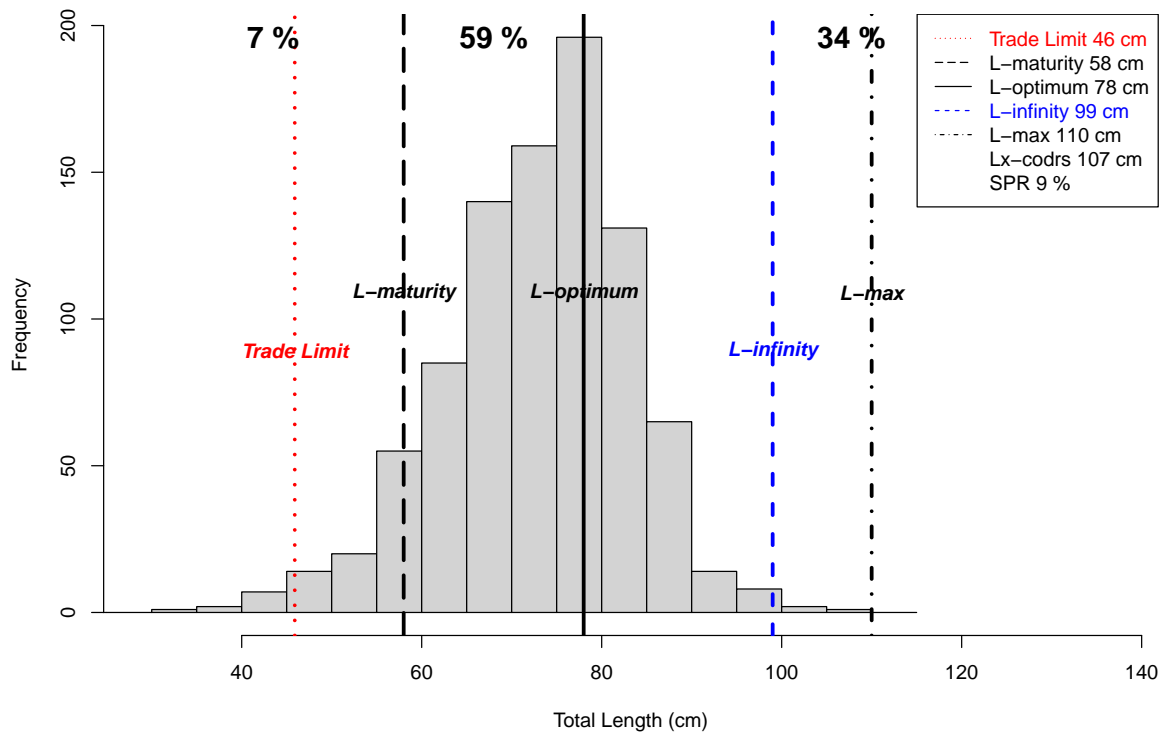
Longline – (ID #1) Length frequency of *Aphareus rutilans* (Lutjanidae), n = 126
 All Years Combined.



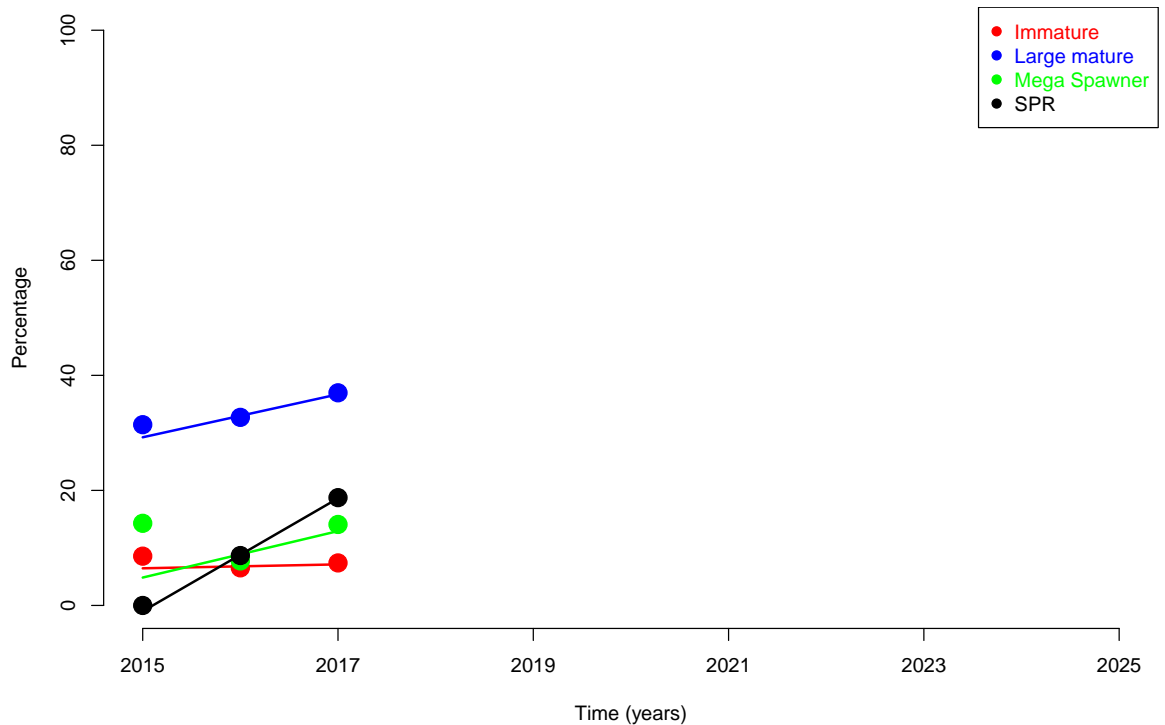
Longline – Trends by size group for *Aphareus rutilans* (ID #1, Lutjanidae)



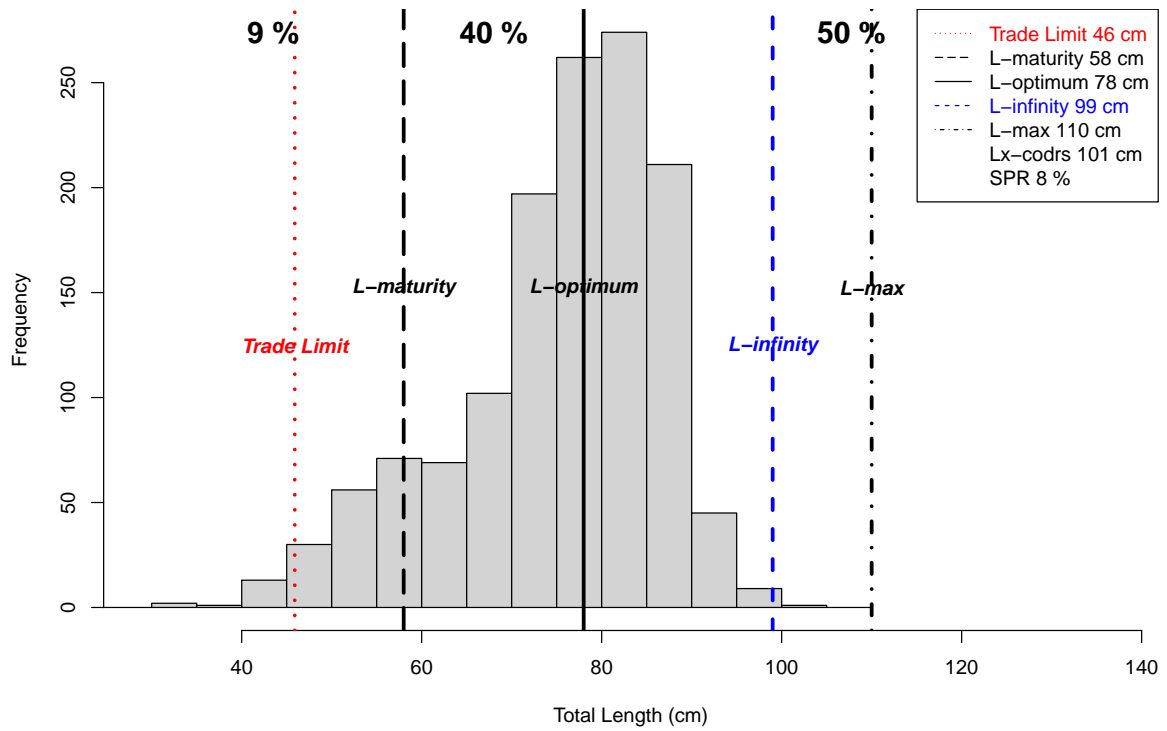
**Dropline – (ID #2) Length frequency of Aprion virescens (Lutjanidae), n = 900
 All Years Combined.**



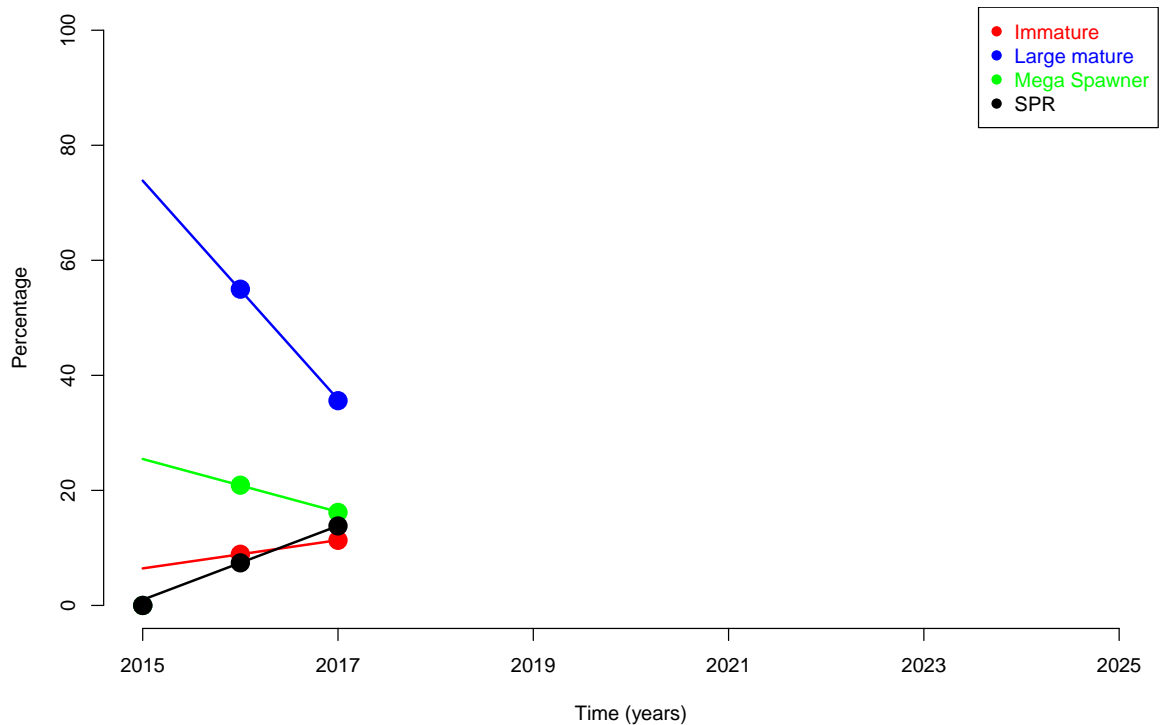
Dropline – Trends by size group for Aprion virescens (ID #2, Lutjanidae)

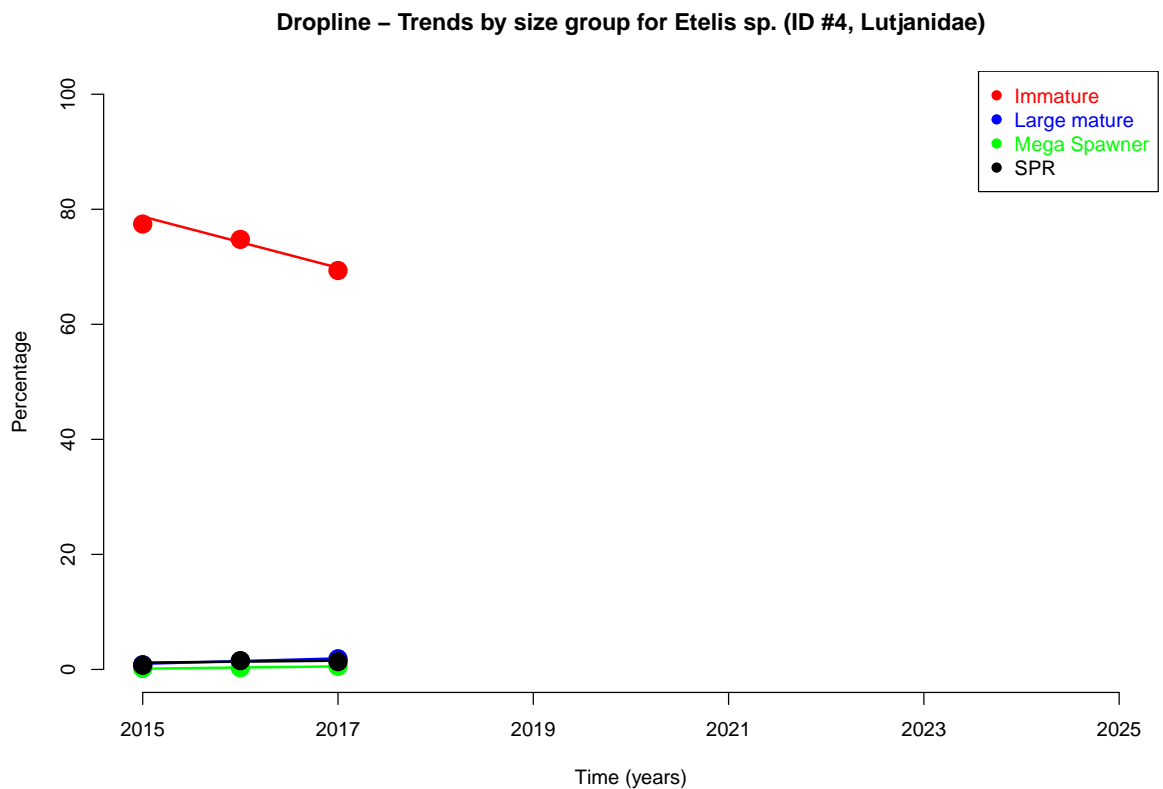
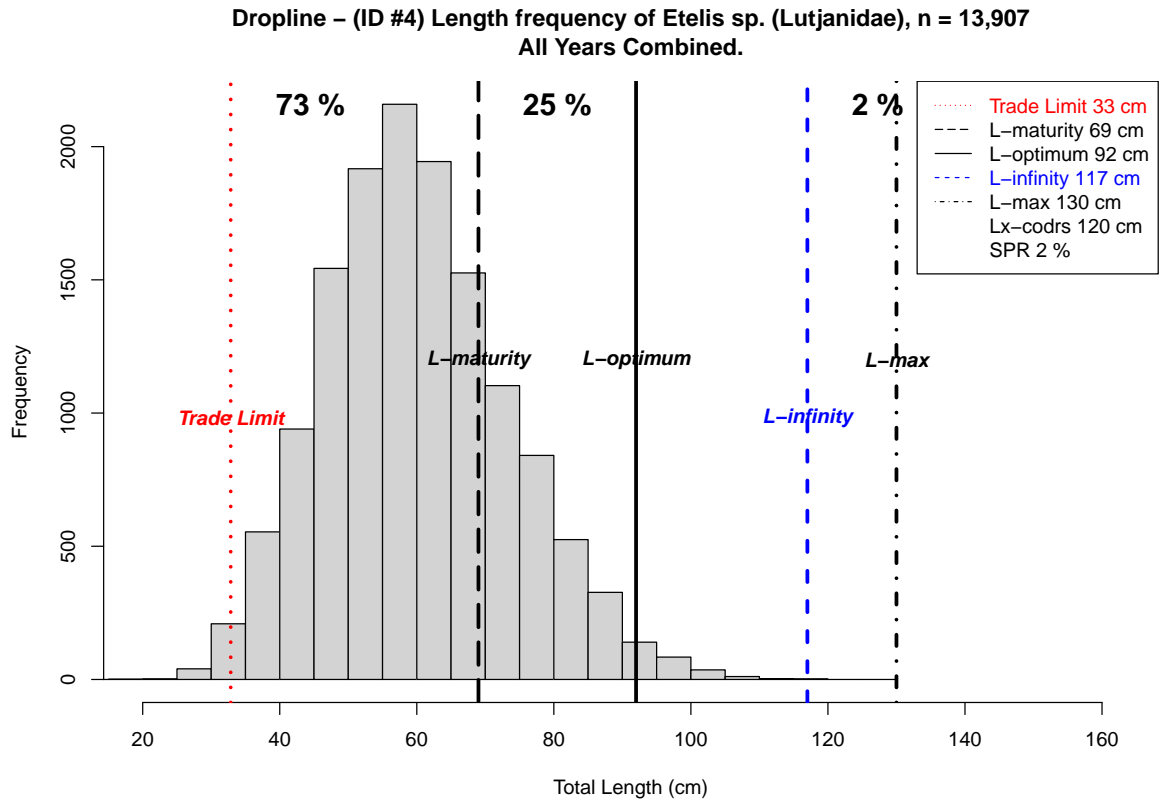


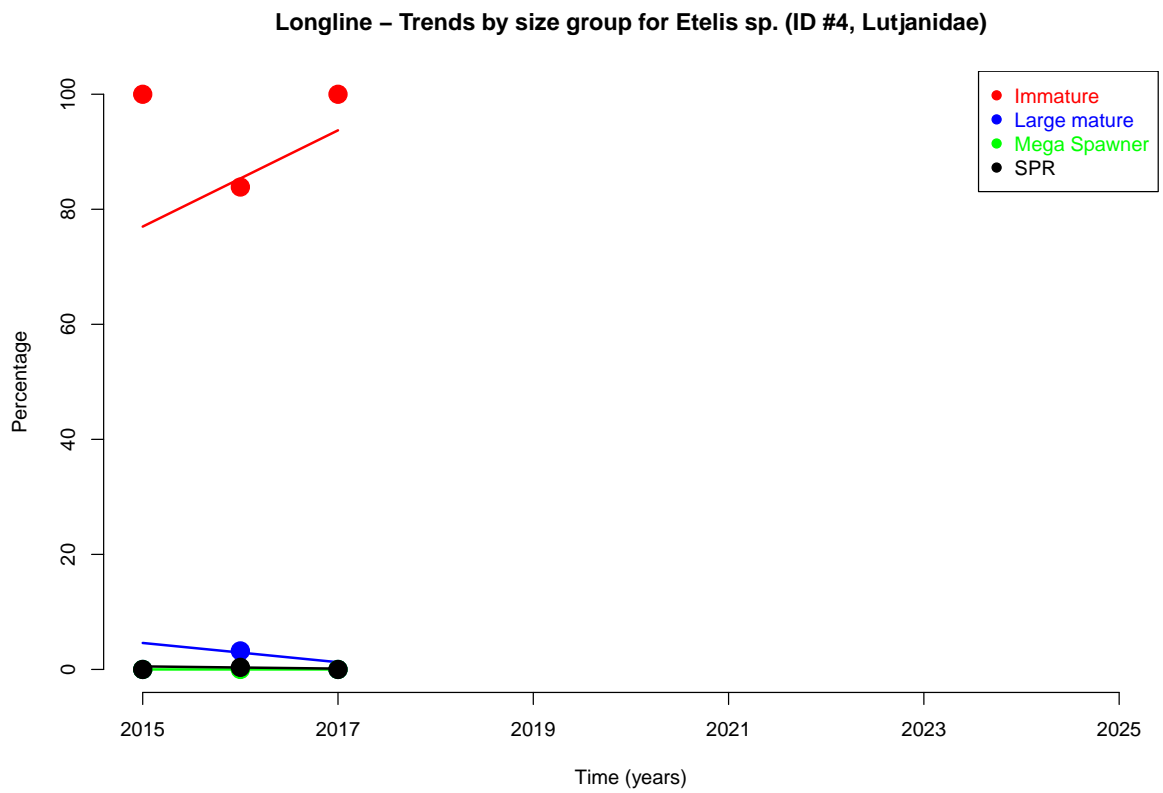
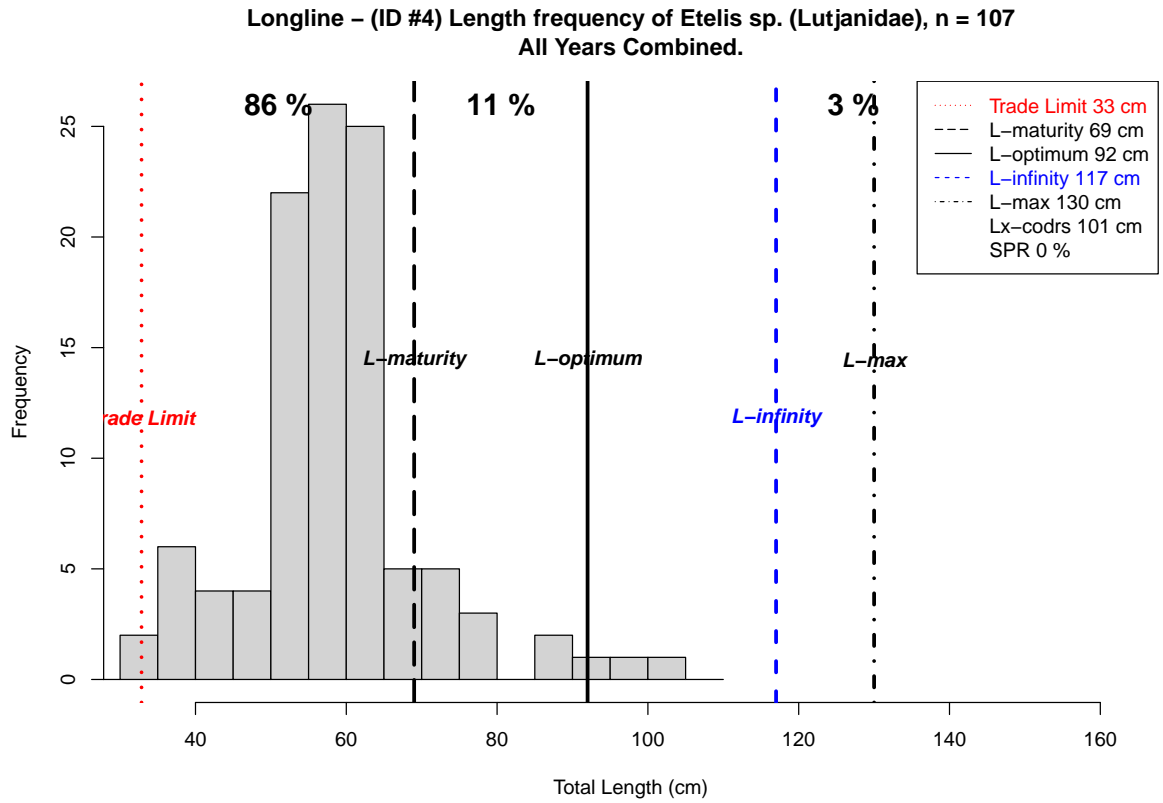
Longline – (ID #2) Length frequency of *Aprion virescens* (Lutjanidae), n = 1,343
 All Years Combined.

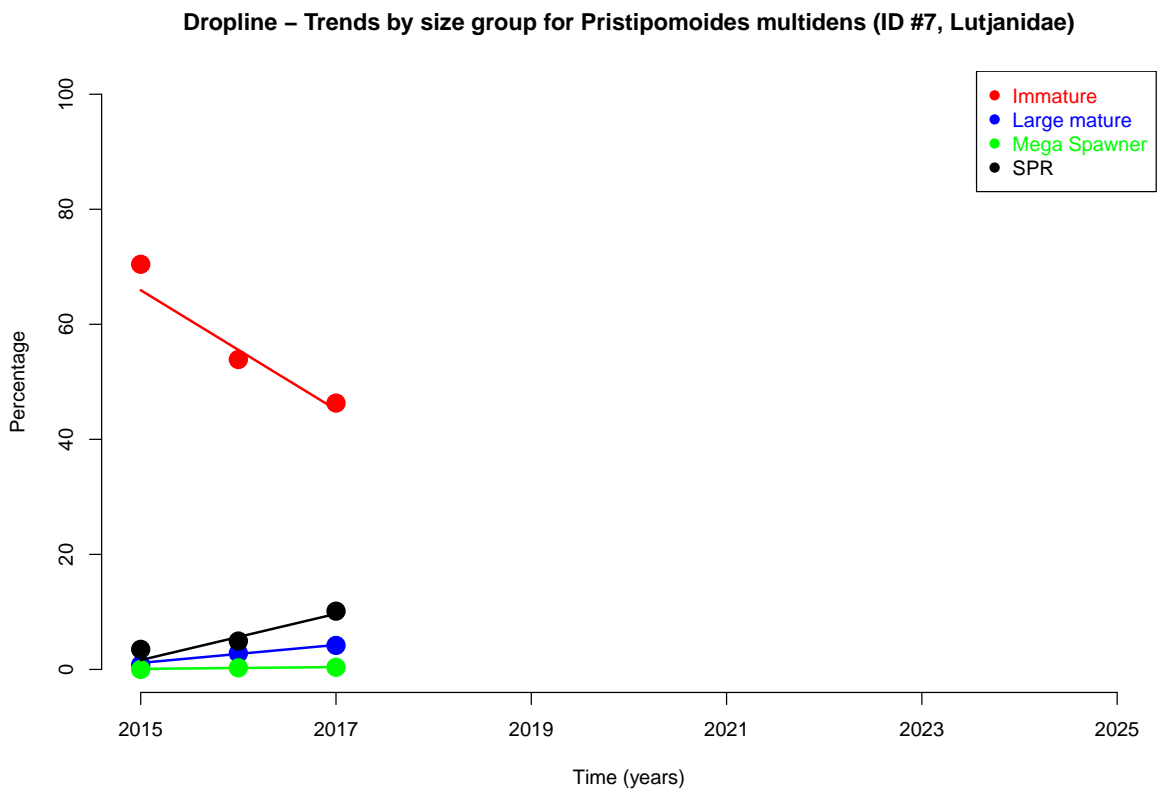
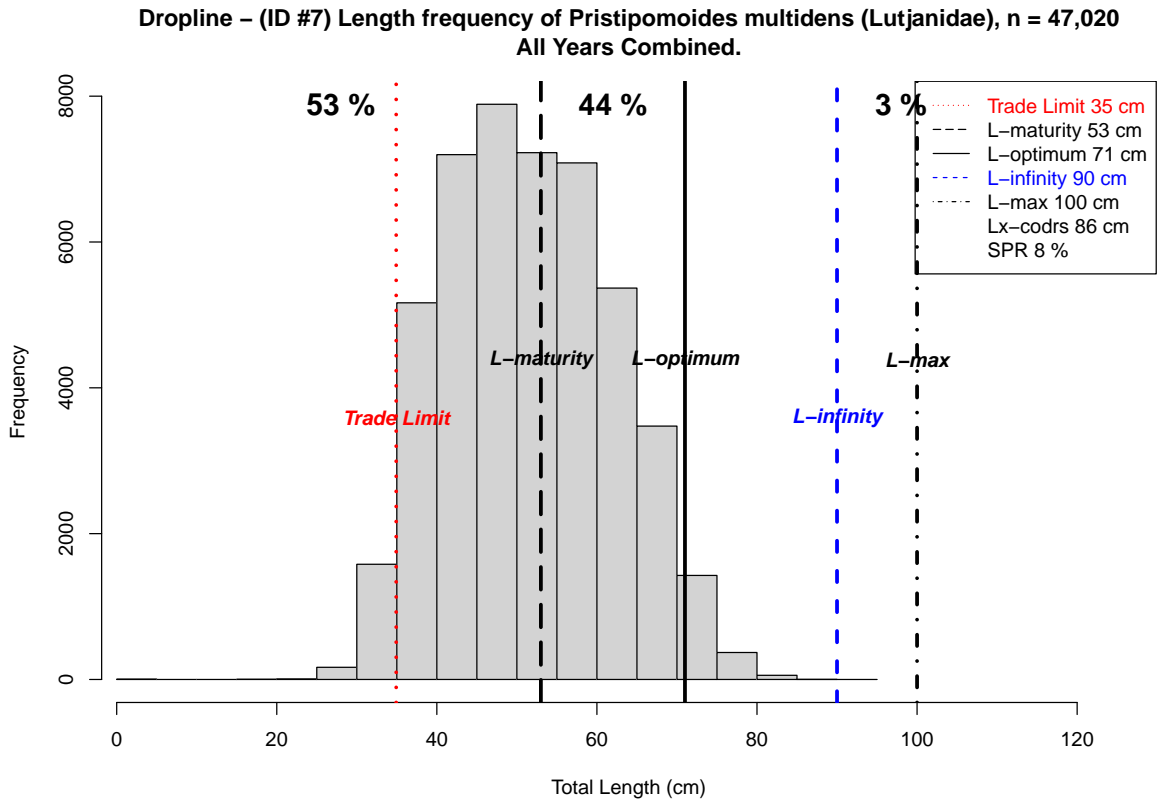


Longline – Trends by size group for *Aprion virescens* (ID #2, Lutjanidae)

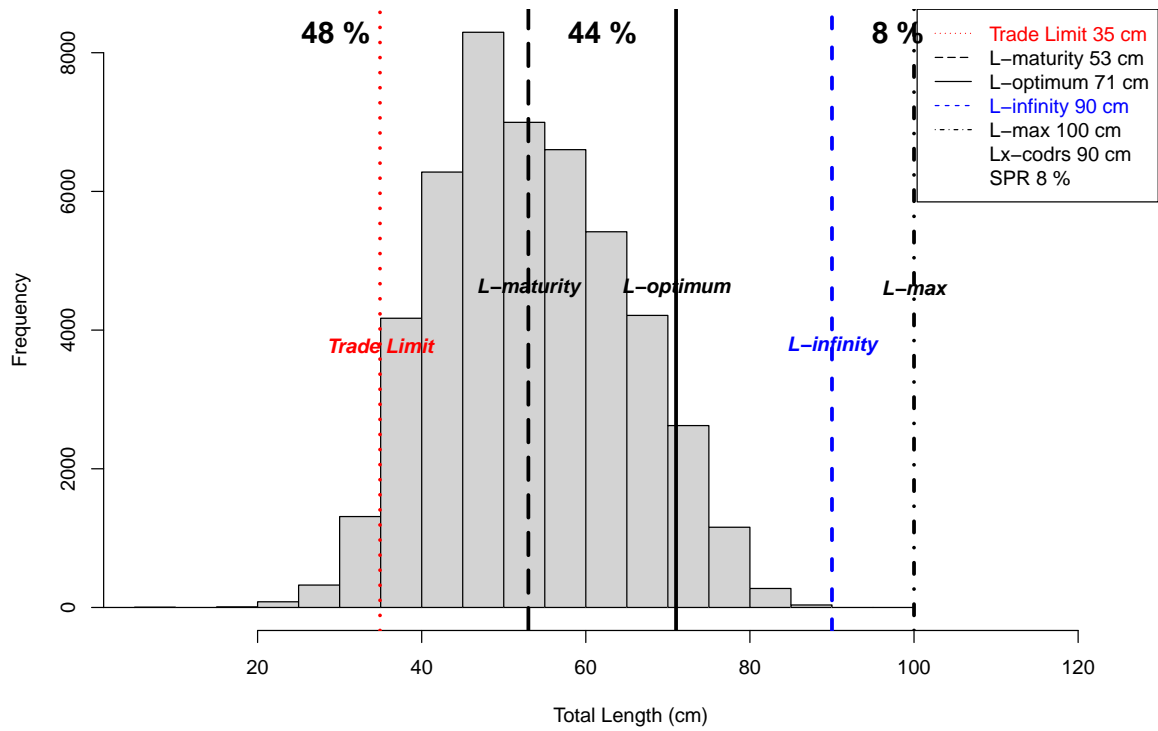




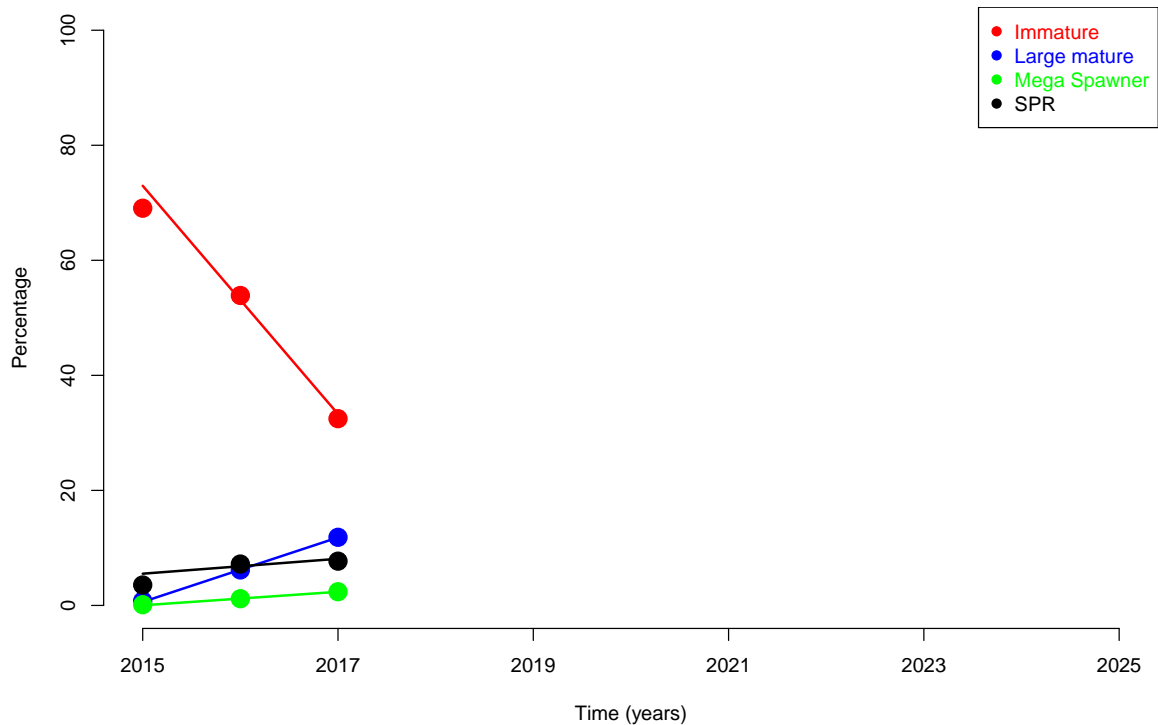


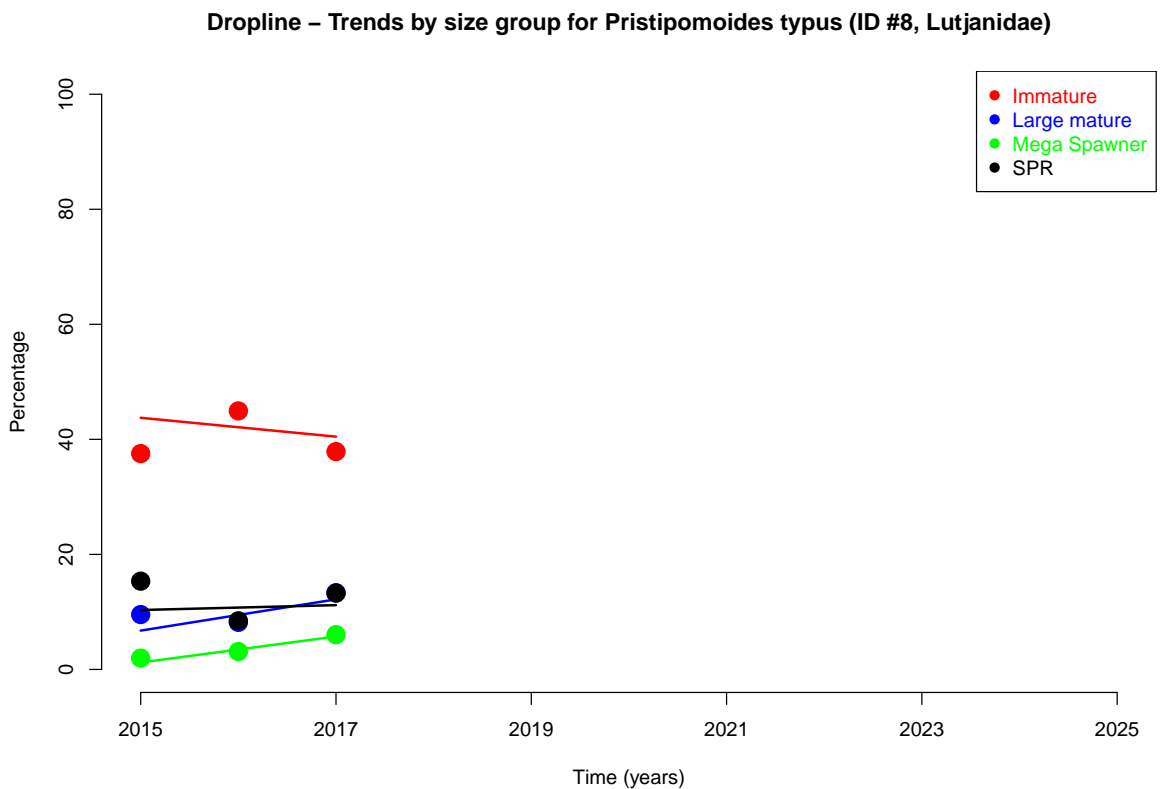
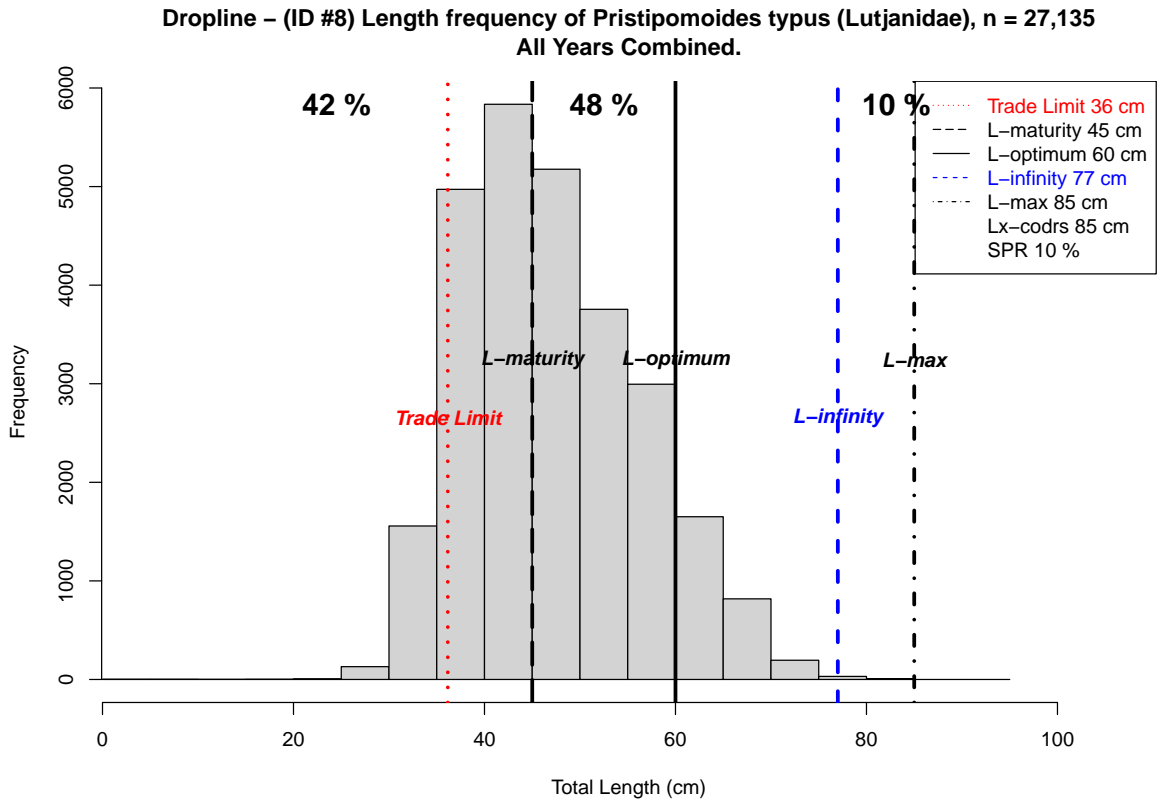


Longline – (ID #7) Length frequency of *Pristipomoides multidens* (Lutjanidae), n = 47,789
 All Years Combined.

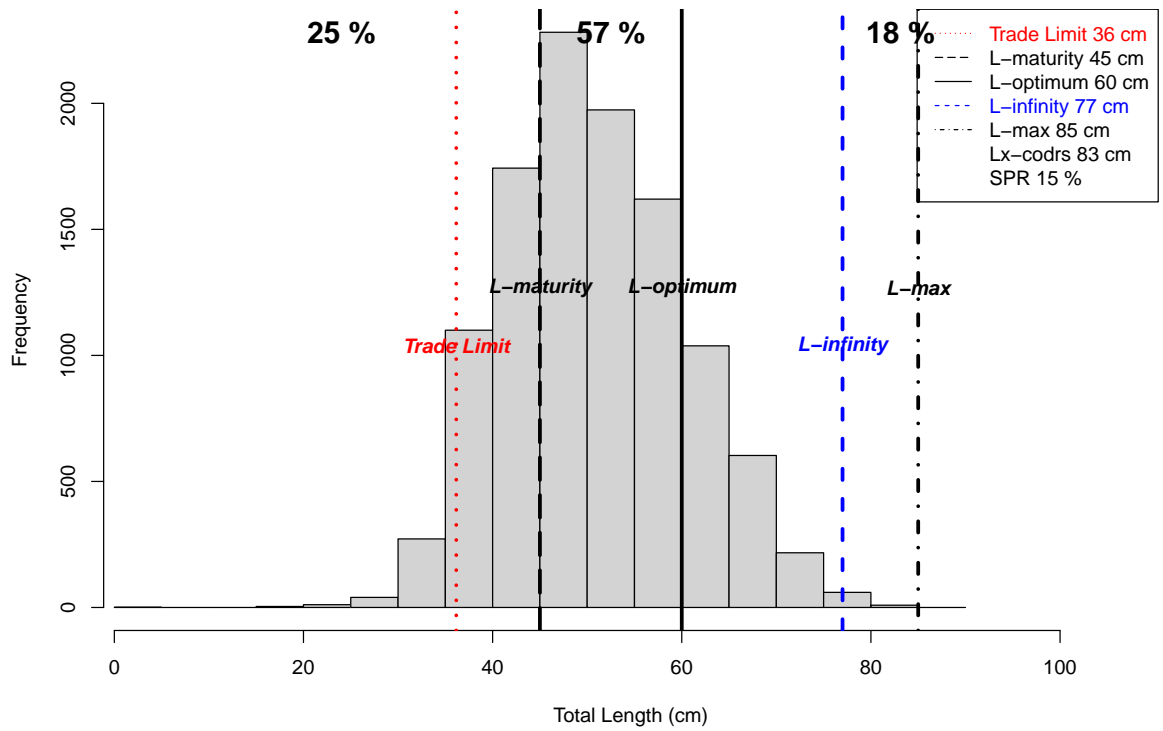


Longline – Trends by size group for *Pristipomoides multidens* (ID #7, Lutjanidae)

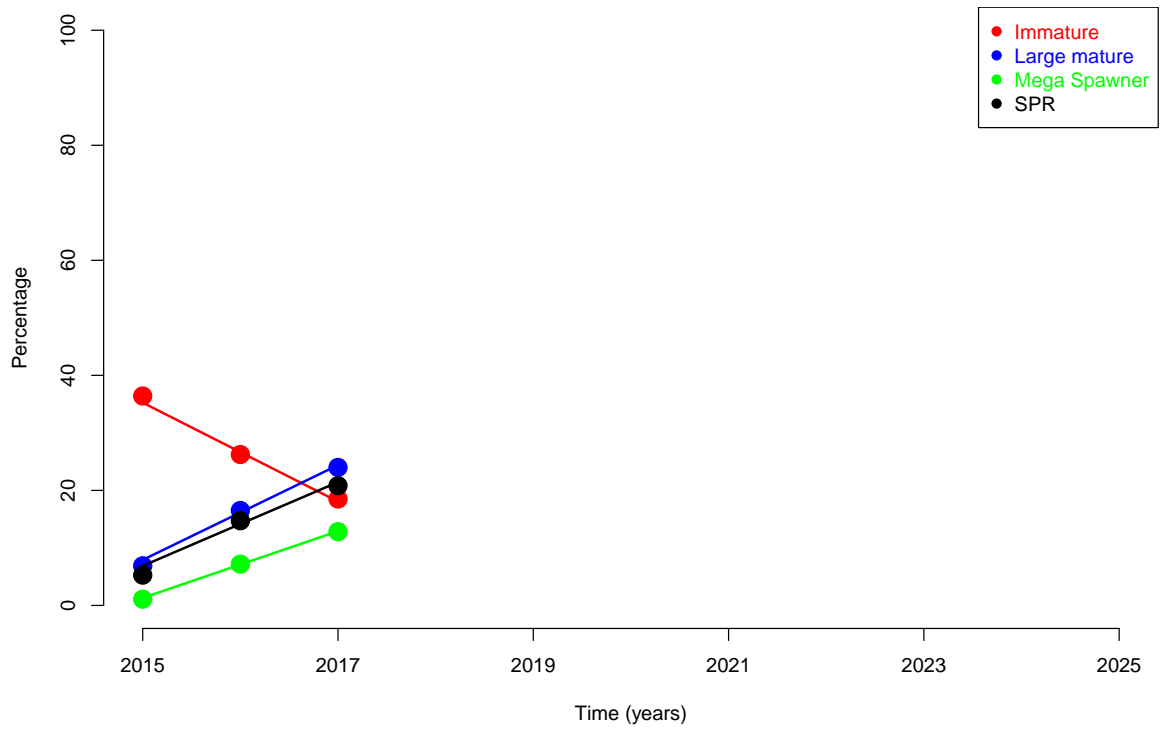




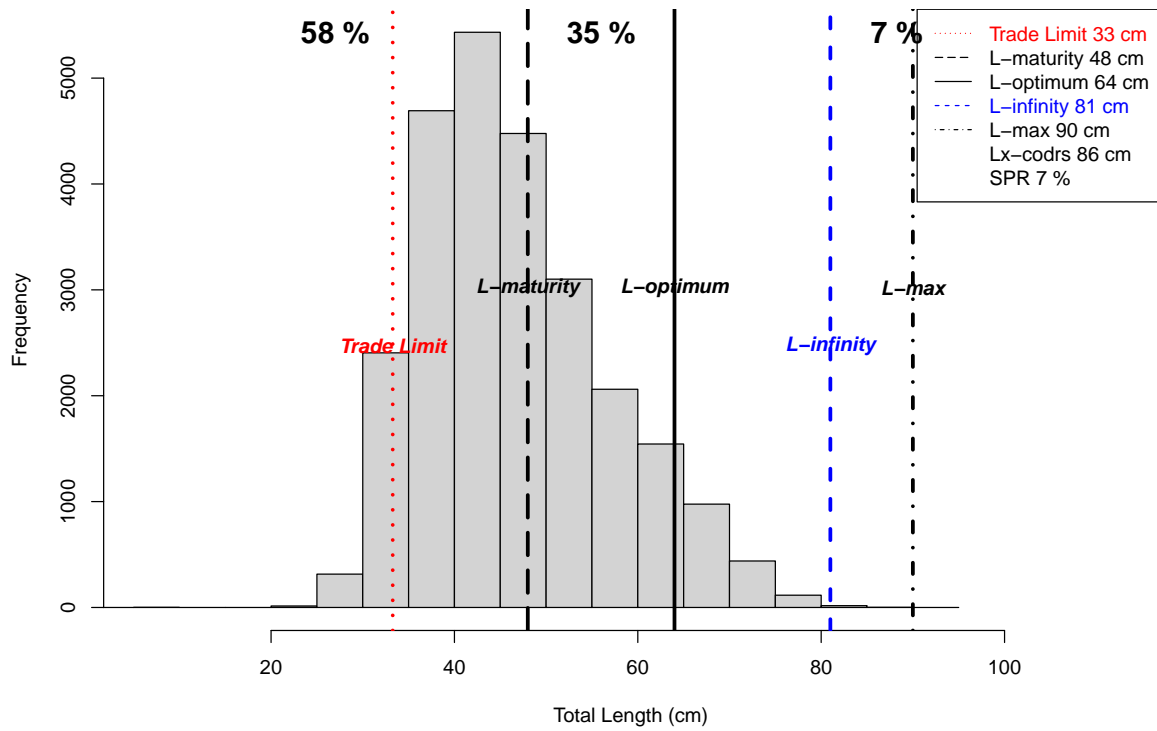
**Longline – (ID #8) Length frequency of *Pristipomoides typus* (Lutjanidae), n = 10,974
 All Years Combined.**



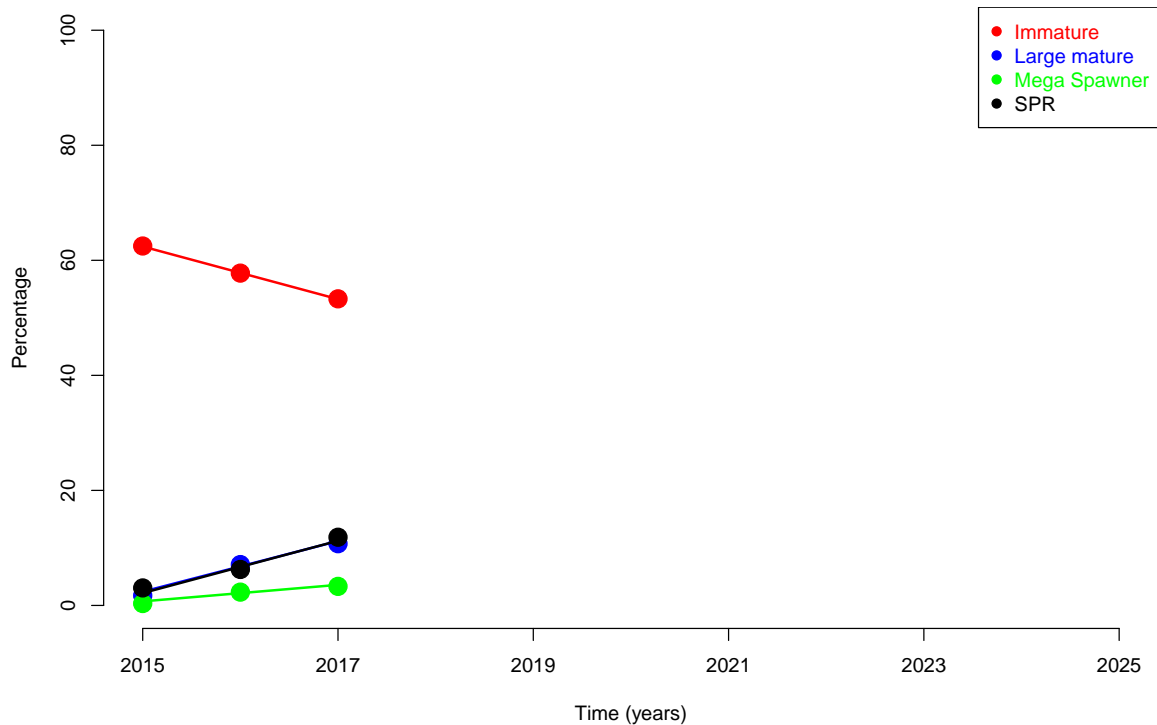
Longline – Trends by size group for *Pristipomoides typus* (ID #8, Lutjanidae)



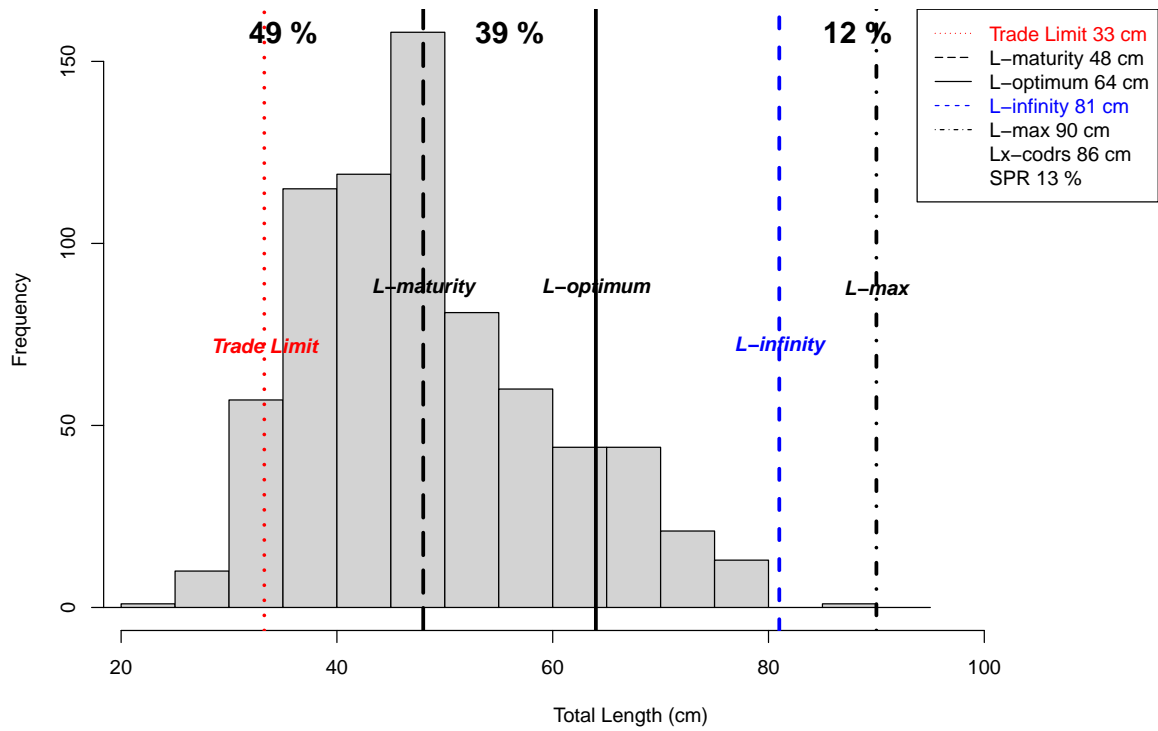
**Dropline – (ID #9) Length frequency of *Pristipomoides filamentosus* (Lutjanidae), n = 25,592
 All Years Combined.**



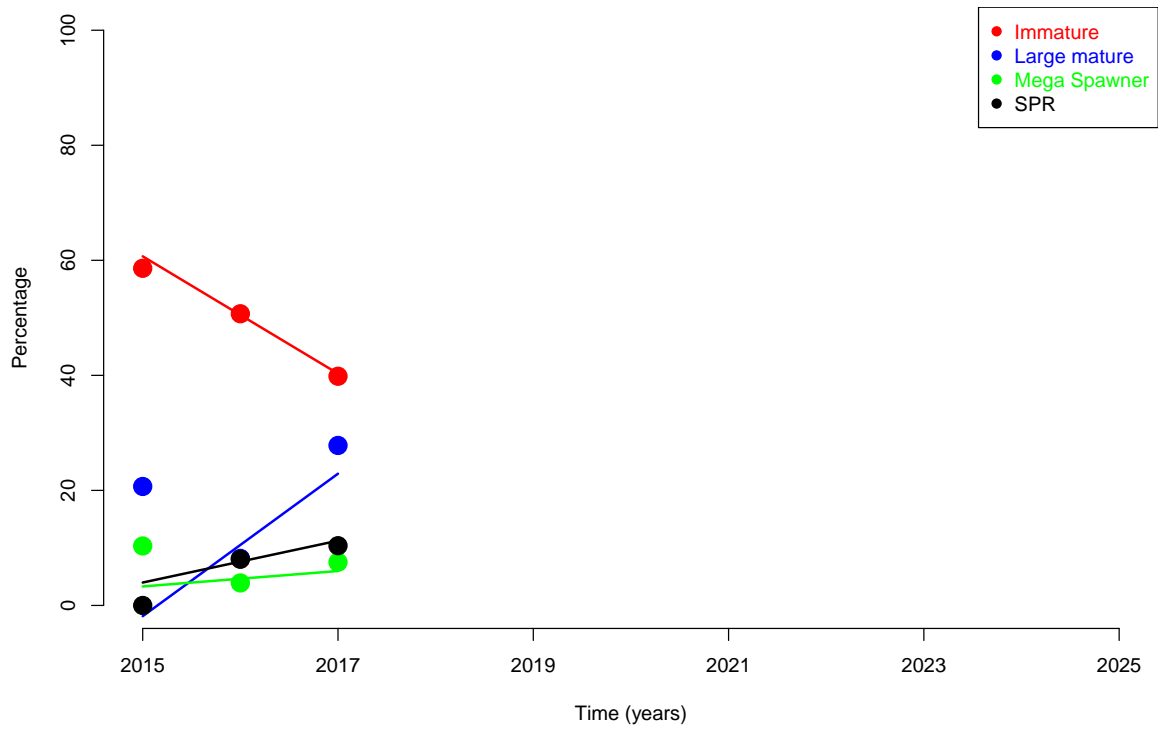
Dropline – Trends by size group for *Pristipomoides filamentosus* (ID #9, Lutjanidae)



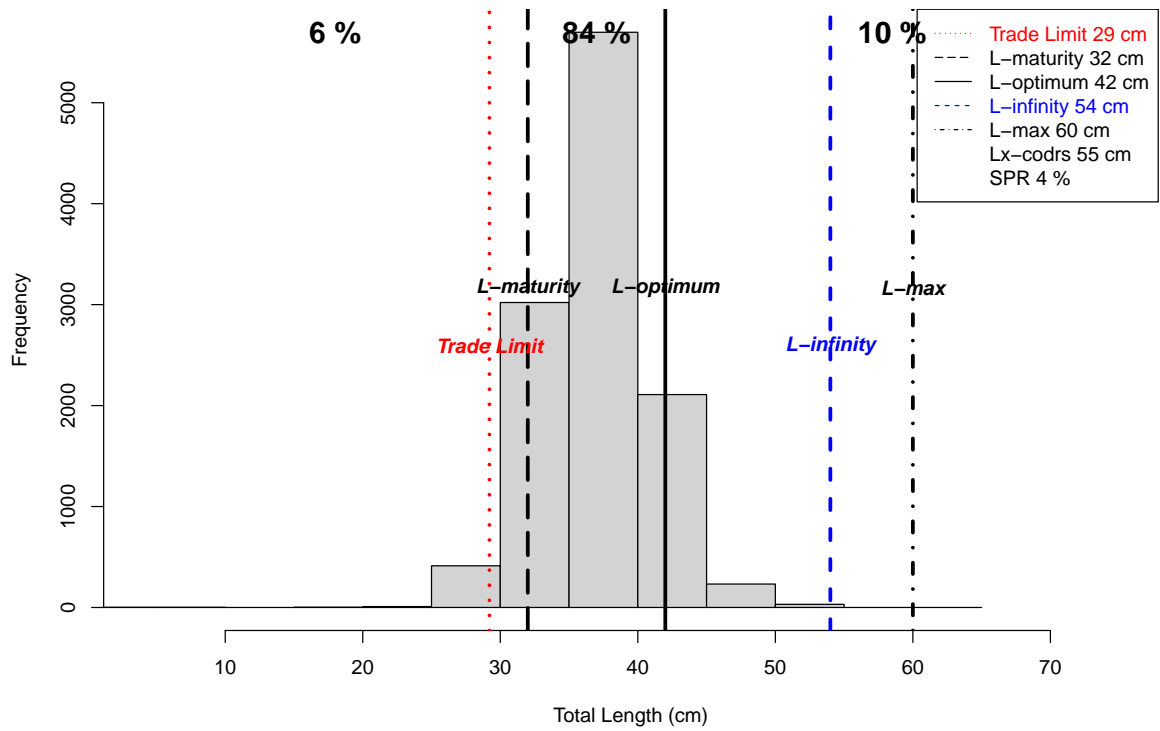
**Longline – (ID #9) Length frequency of *Pristipomoides filamentosus* (Lutjanidae), n = 724
 All Years Combined.**



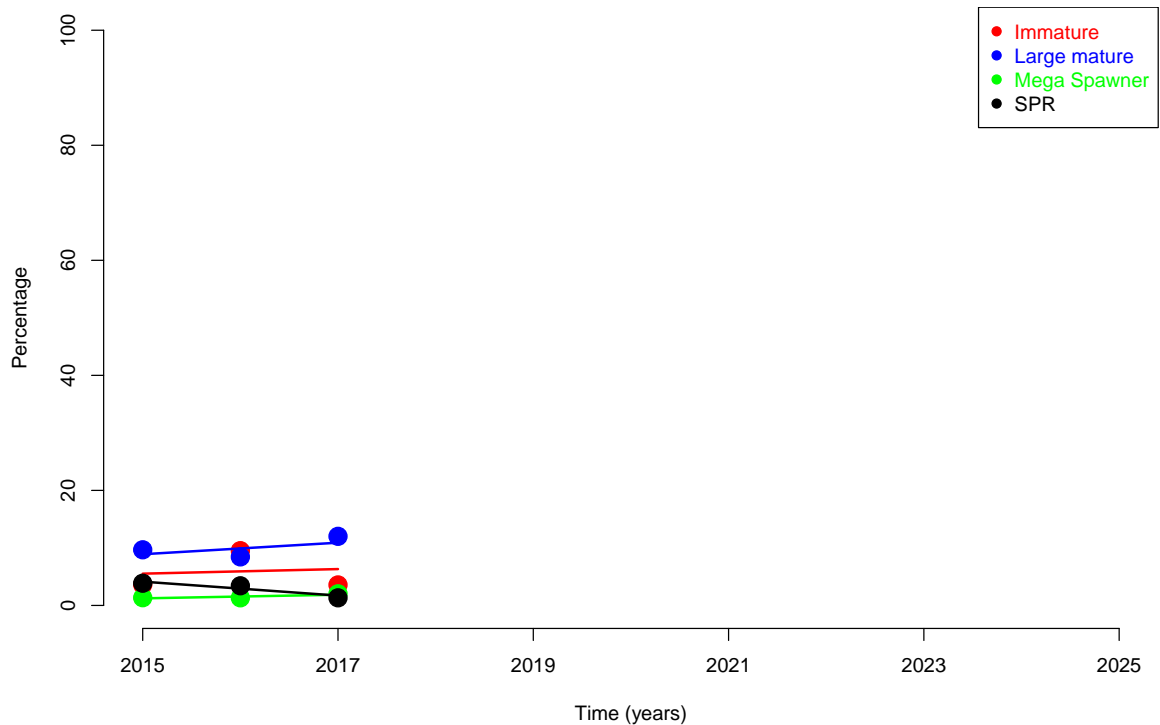
Longline – Trends by size group for *Pristipomoides filamentosus* (ID #9, Lutjanidae)



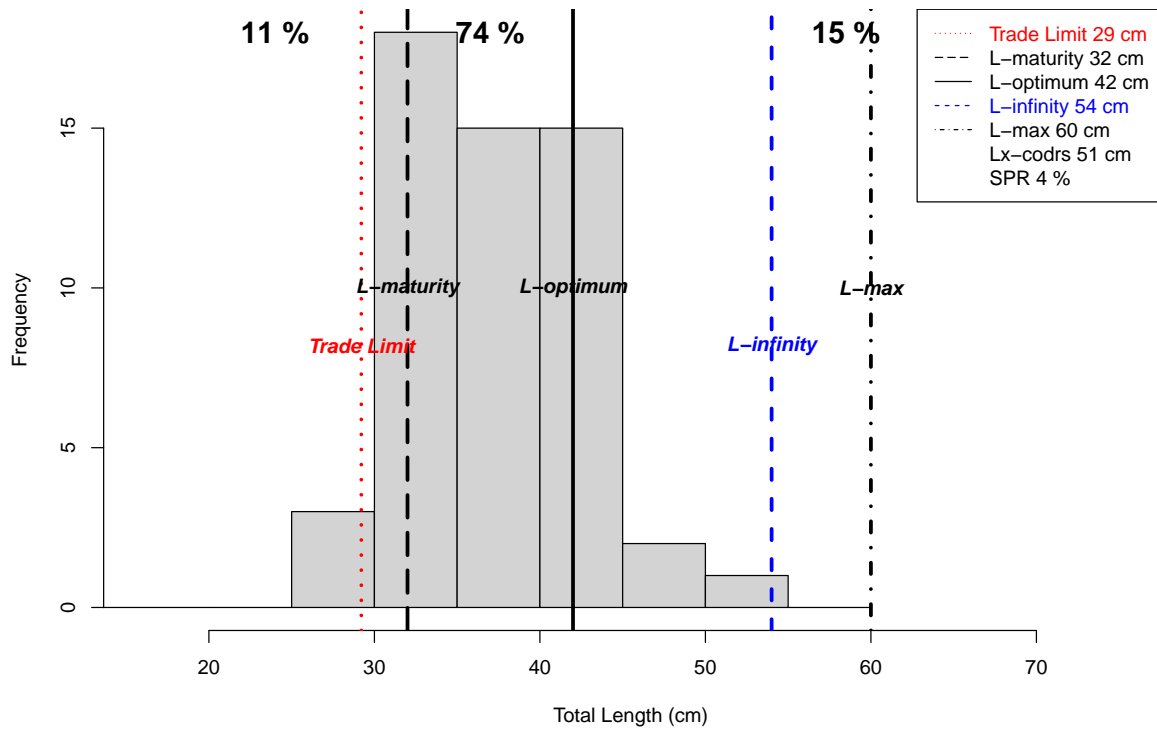
**Dropline – (ID #10) Length frequency of *Pristipomoides sieboldii* (Lutjanidae), n = 11,517
 All Years Combined.**



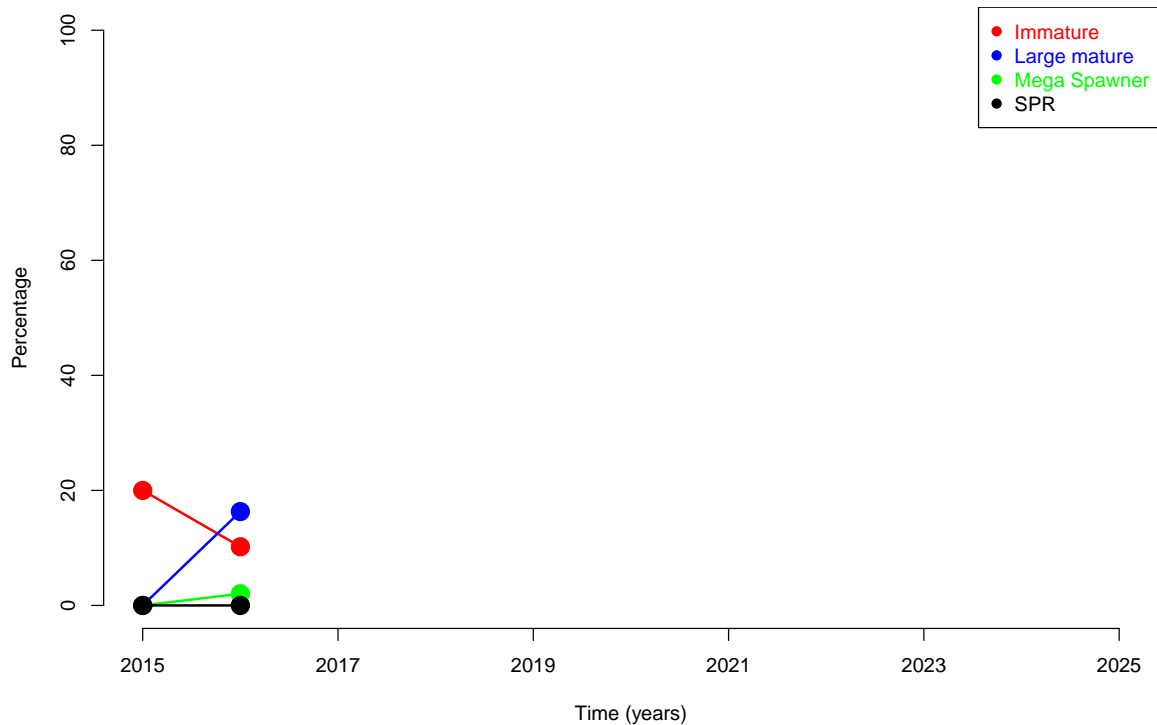
Dropline – Trends by size group for *Pristipomoides sieboldii* (ID #10, Lutjanidae)



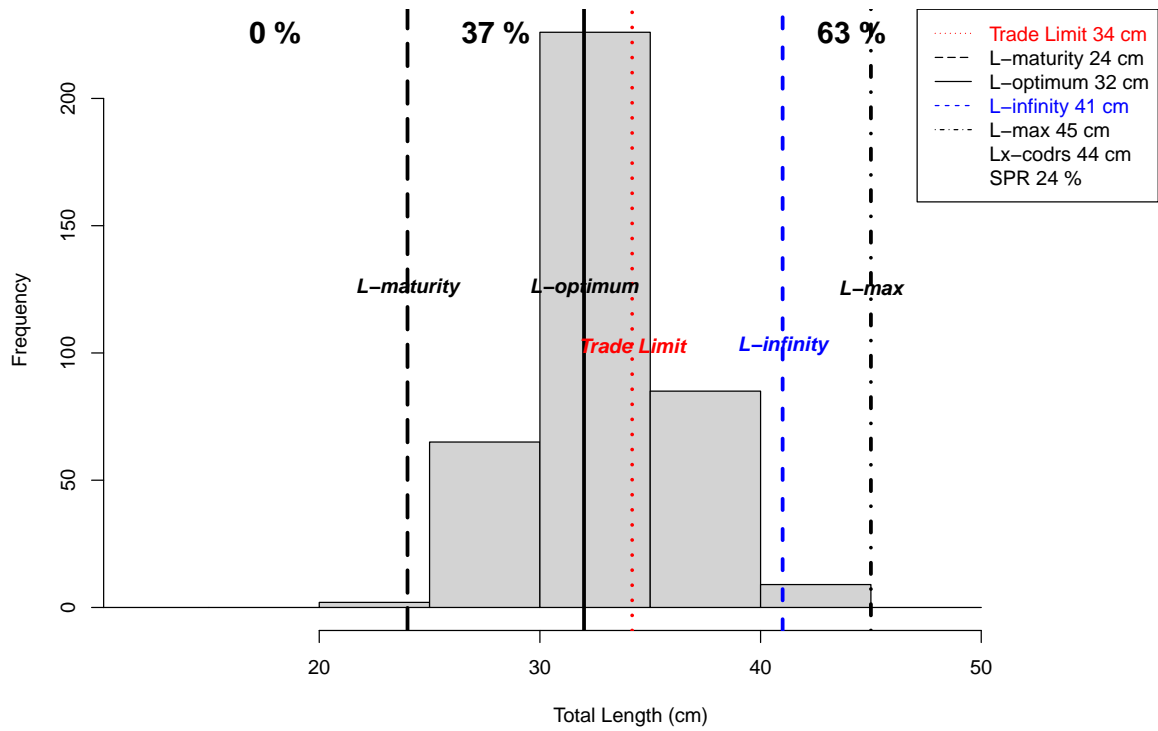
**Longline – (ID #10) Length frequency of *Pristipomoides sieboldii* (Lutjanidae), n = 54
 All Years Combined.**



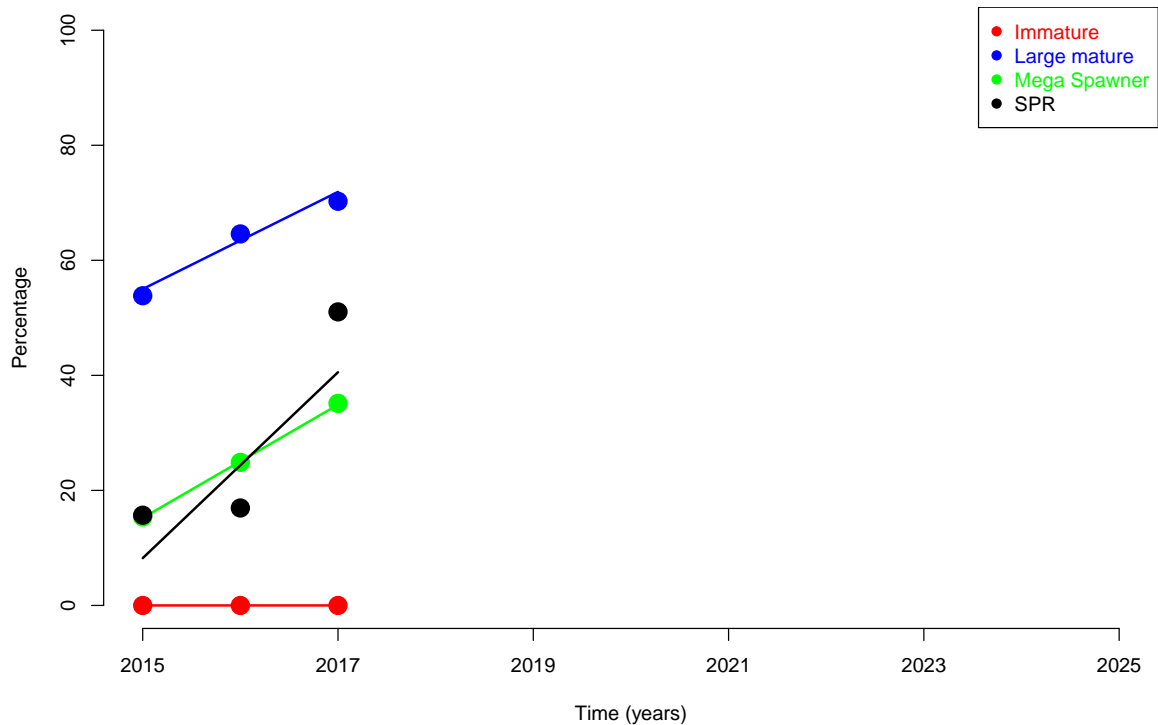
Longline – Trends by size group for *Pristipomoides sieboldii* (ID #10, Lutjanidae)



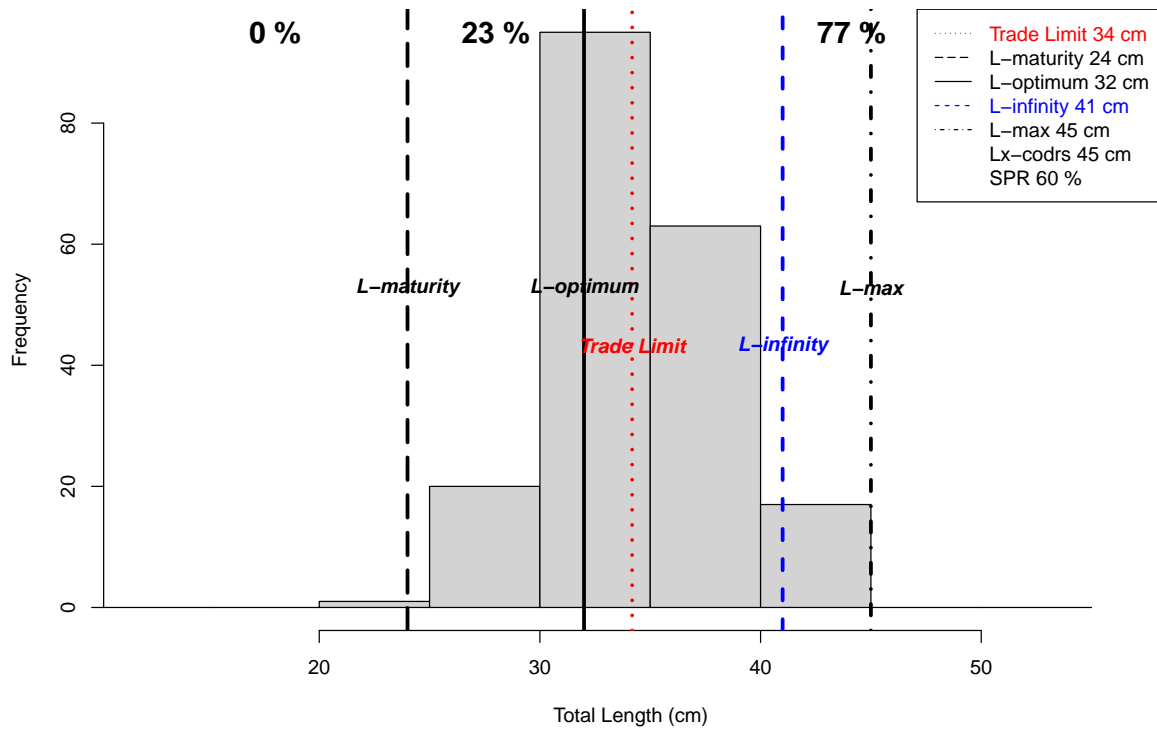
**Dropline – (ID #14) Length frequency of *Lutjanus bitaeniatus* (Lutjanidae), n = 387
 All Years Combined.**



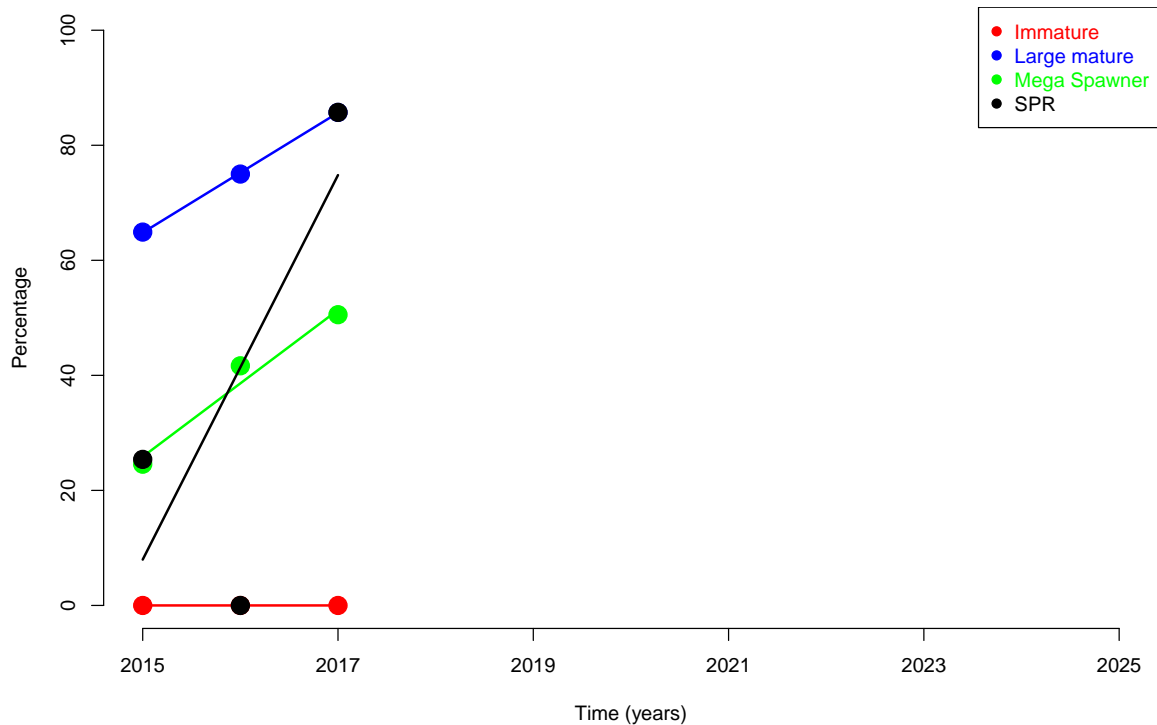
Dropline – Trends by size group for *Lutjanus bitaeniatus* (ID #14, Lutjanidae)



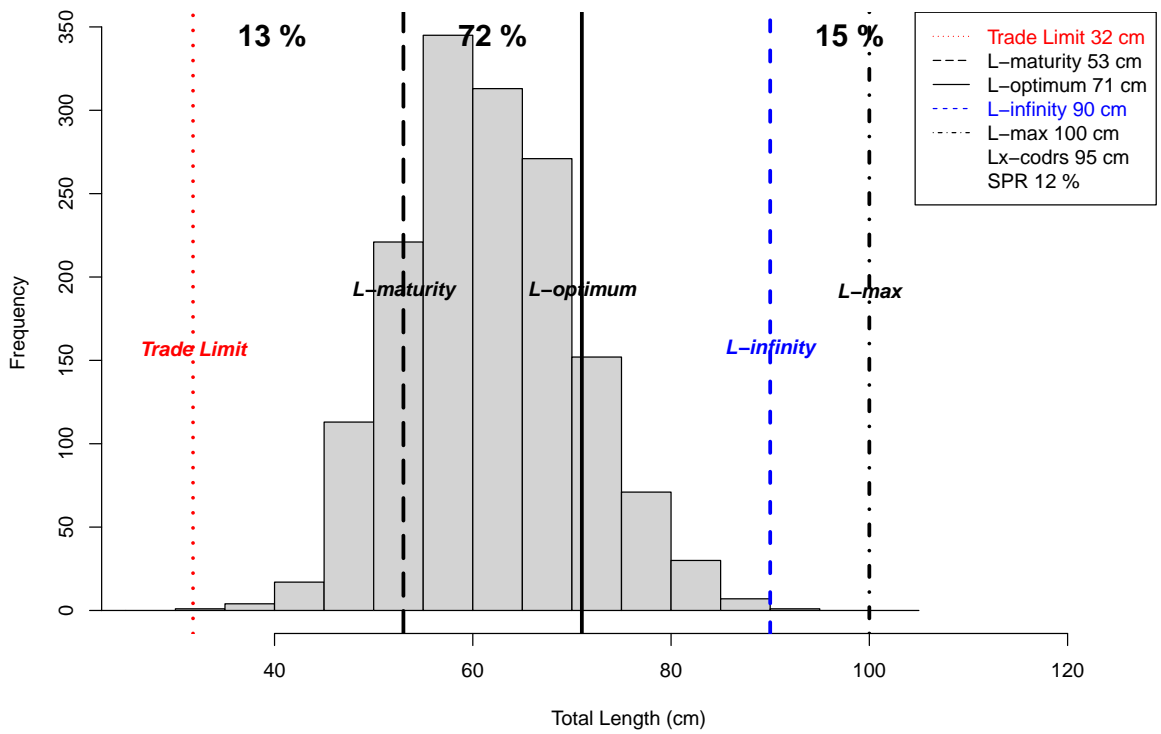
**Longline – (ID #14) Length frequency of *Lutjanus bitaeniatus* (Lutjanidae), n = 196
 All Years Combined.**



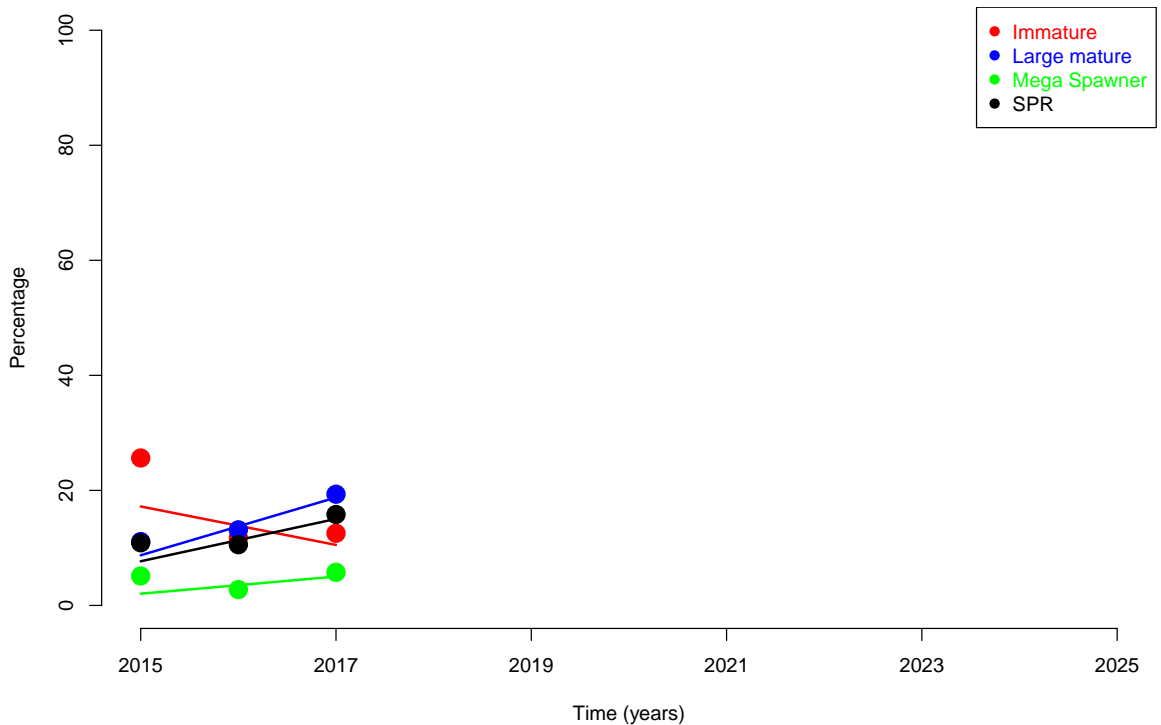
Longline – Trends by size group for *Lutjanus bitaeniatus* (ID #14, Lutjanidae)



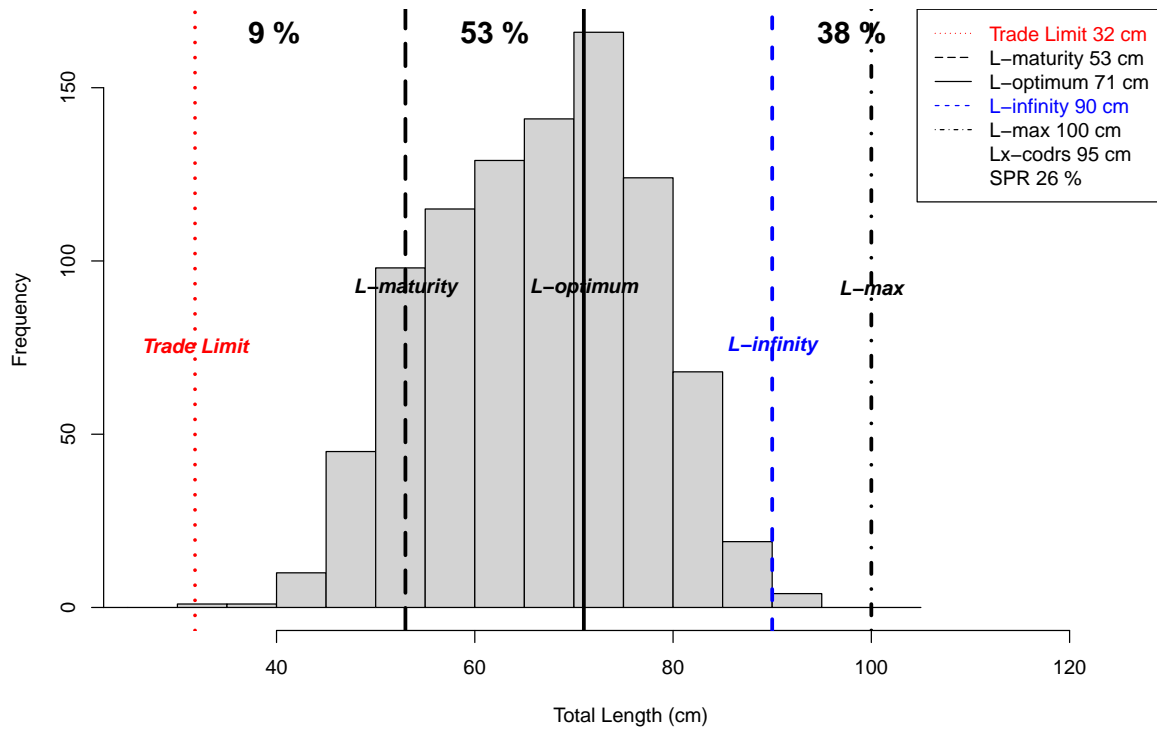
**Dropline – (ID #15) Length frequency of *Lutjanus argentimaculatus* (Lutjanidae), n = 1,546
 All Years Combined.**



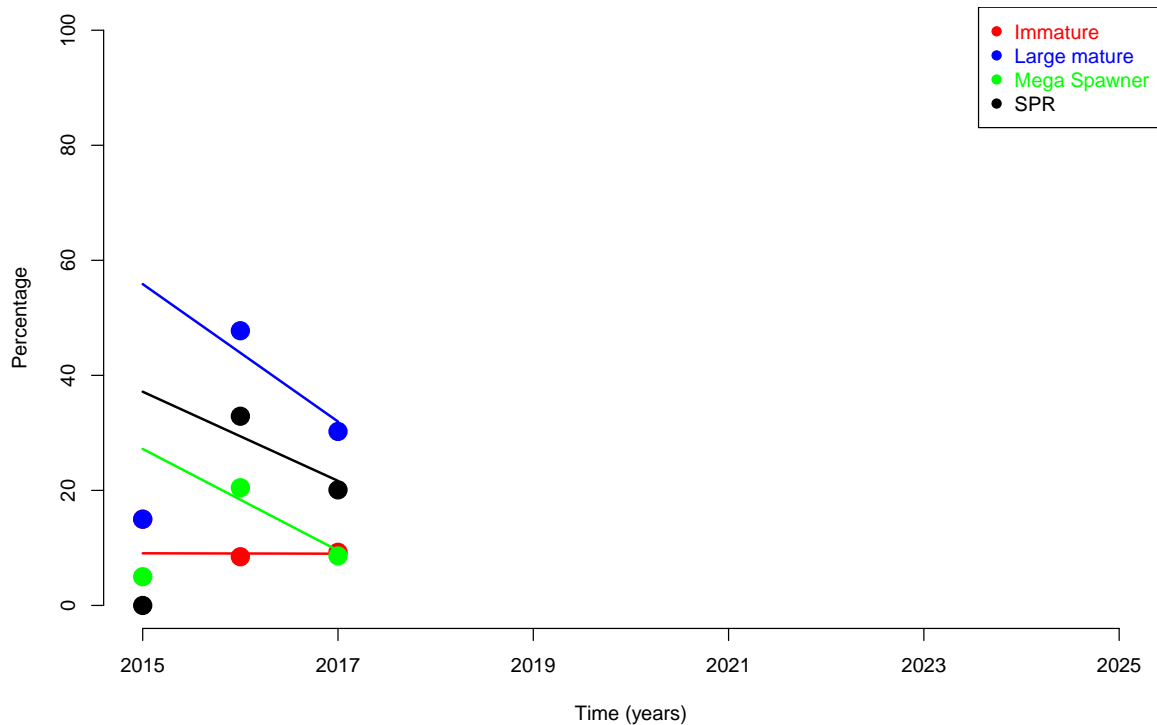
Dropline – Trends by size group for *Lutjanus argentimaculatus* (ID #15, Lutjanidae)



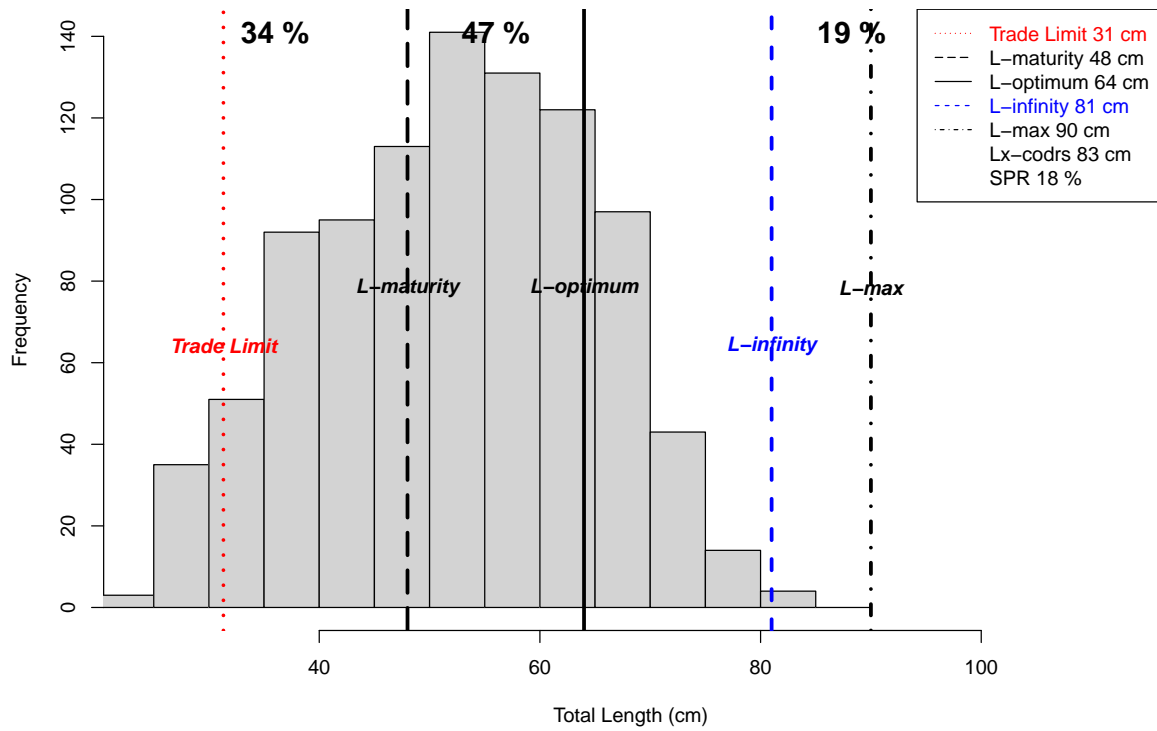
Longline – (ID #15) Length frequency of *Lutjanus argentimaculatus* (Lutjanidae), n = 921
 All Years Combined.



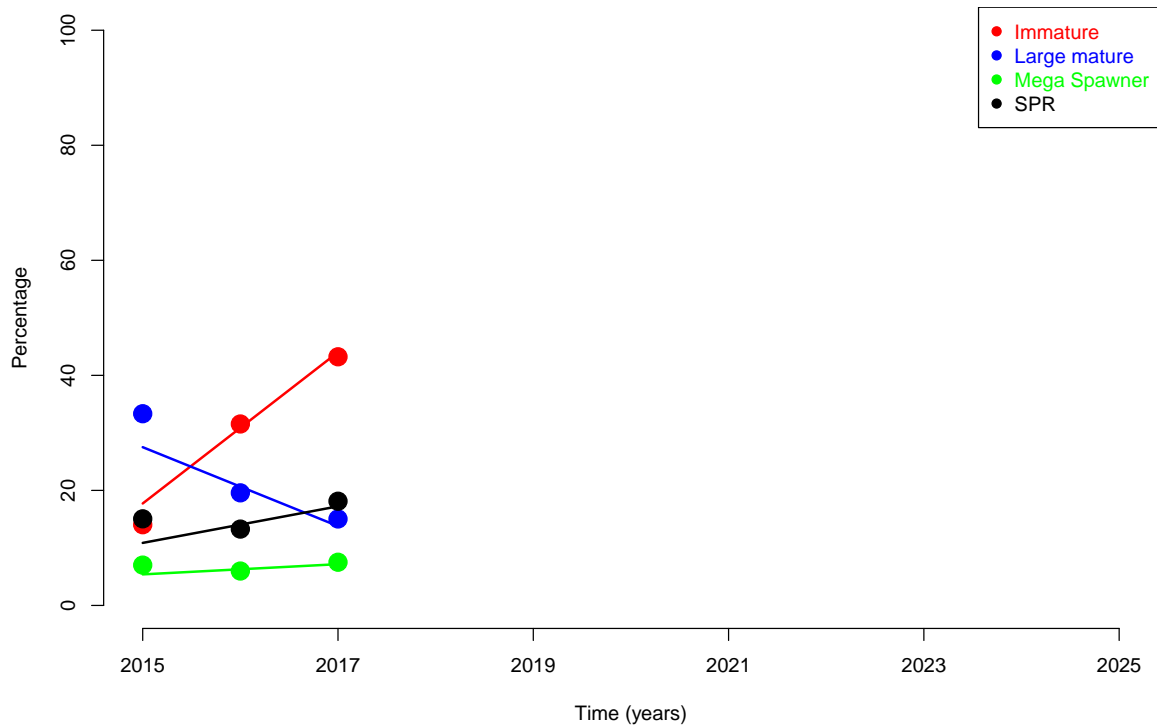
Longline – Trends by size group for *Lutjanus argentimaculatus* (ID #15, Lutjanidae)



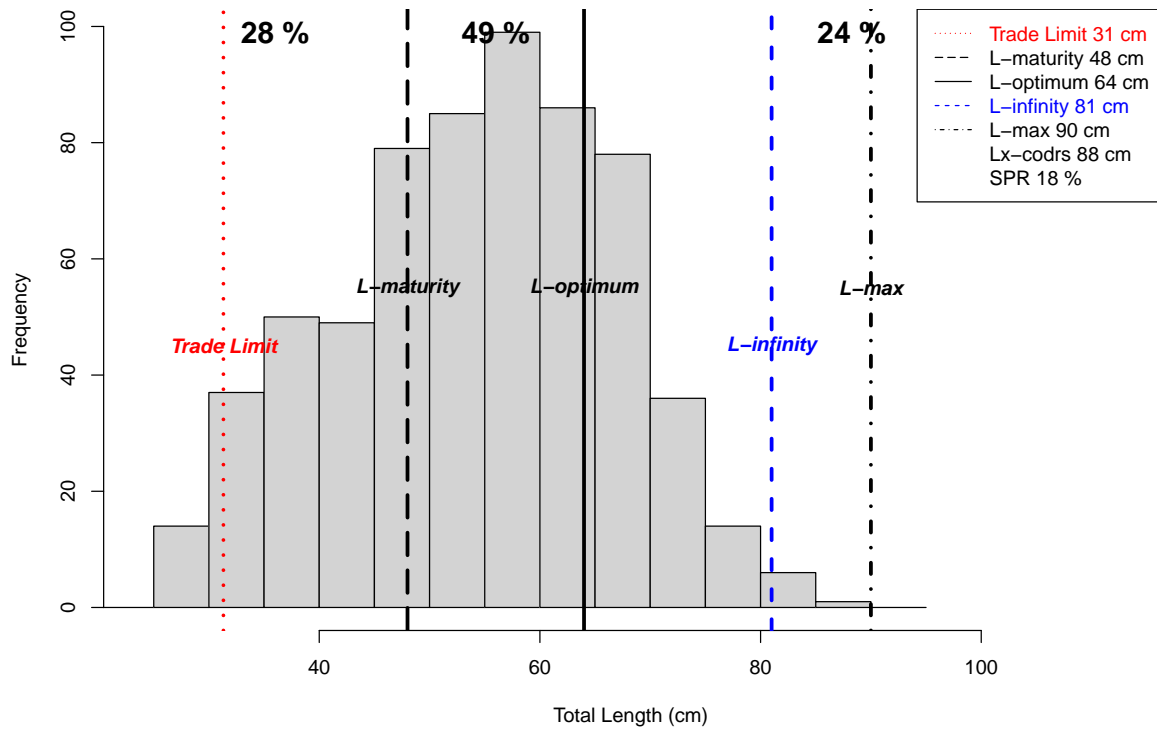
**Dropline – (ID #16) Length frequency of *Lutjanus bohar* (Lutjanidae), n = 941
 All Years Combined.**



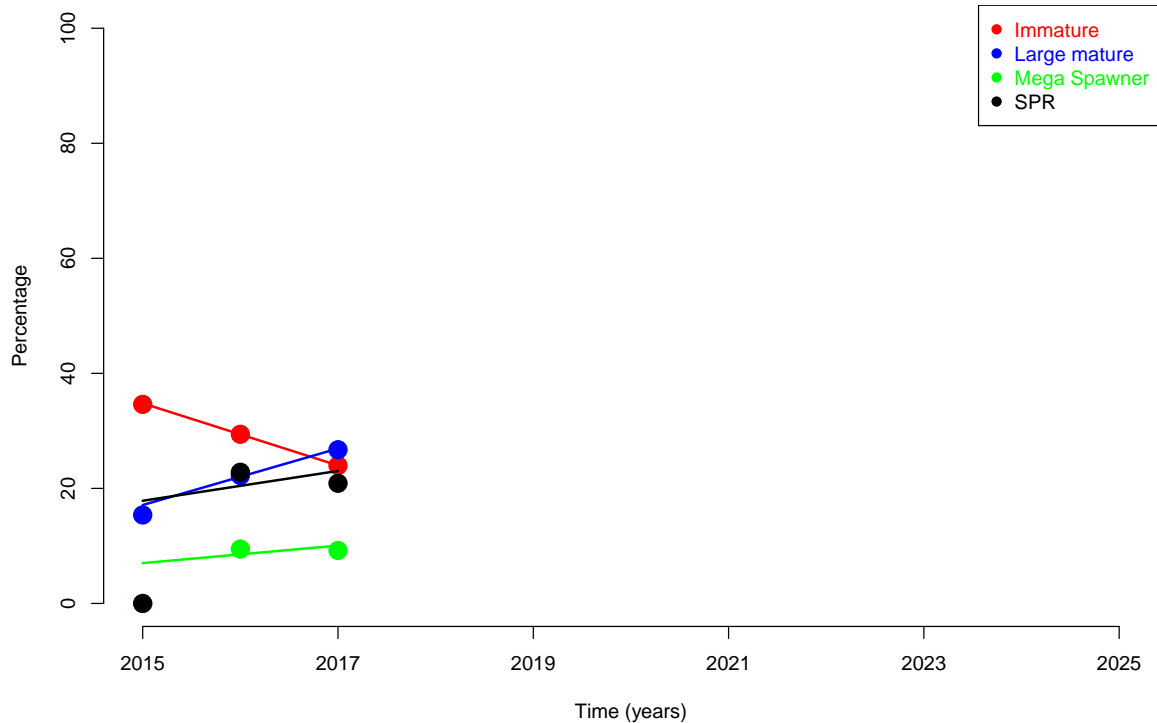
Dropline – Trends by size group for *Lutjanus bohar* (ID #16, Lutjanidae)



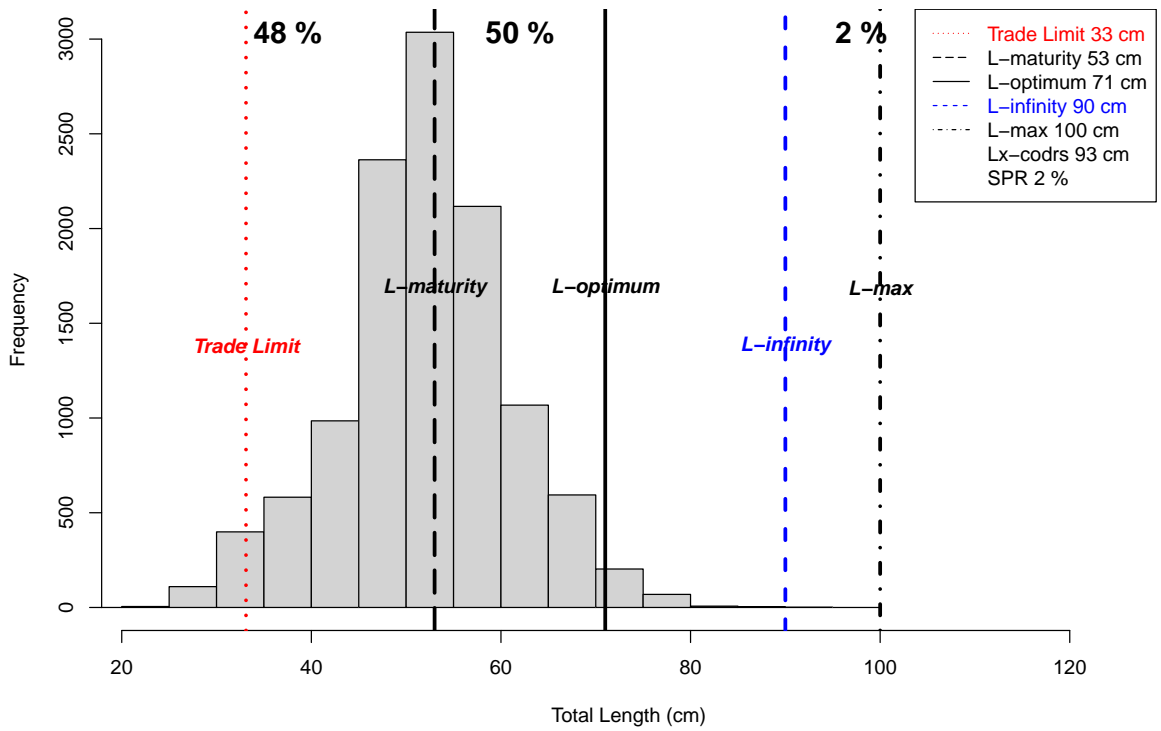
Longline – (ID #16) Length frequency of *Lutjanus bohar* (Lutjanidae), n = 634
 All Years Combined.



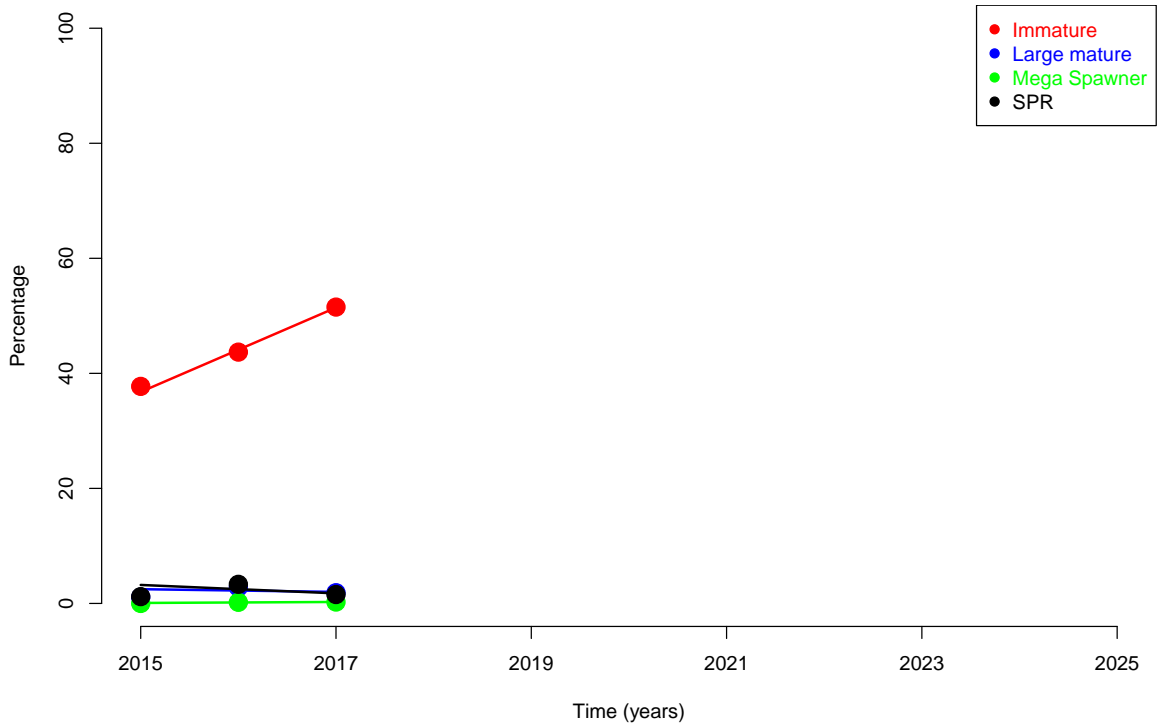
Longline – Trends by size group for *Lutjanus bohar* (ID #16, Lutjanidae)



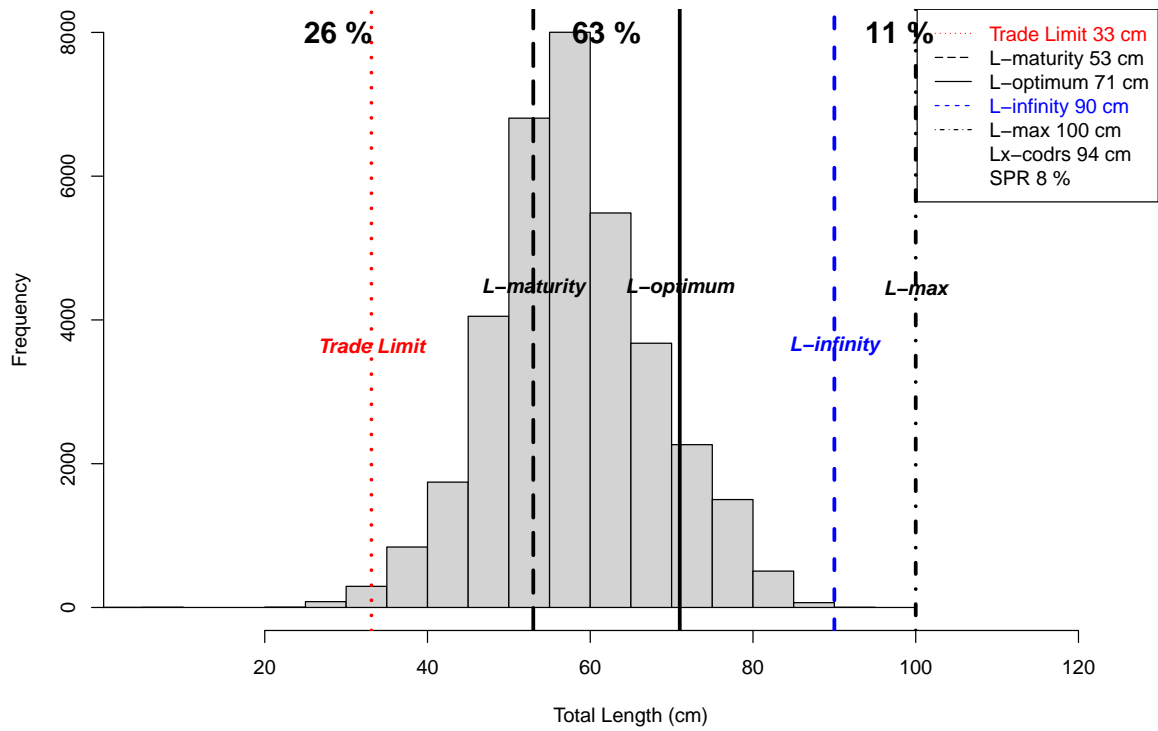
**Dropline – (ID #17) Length frequency of *Lutjanus malabaricus* (Lutjanidae), n = 11,543
 All Years Combined.**



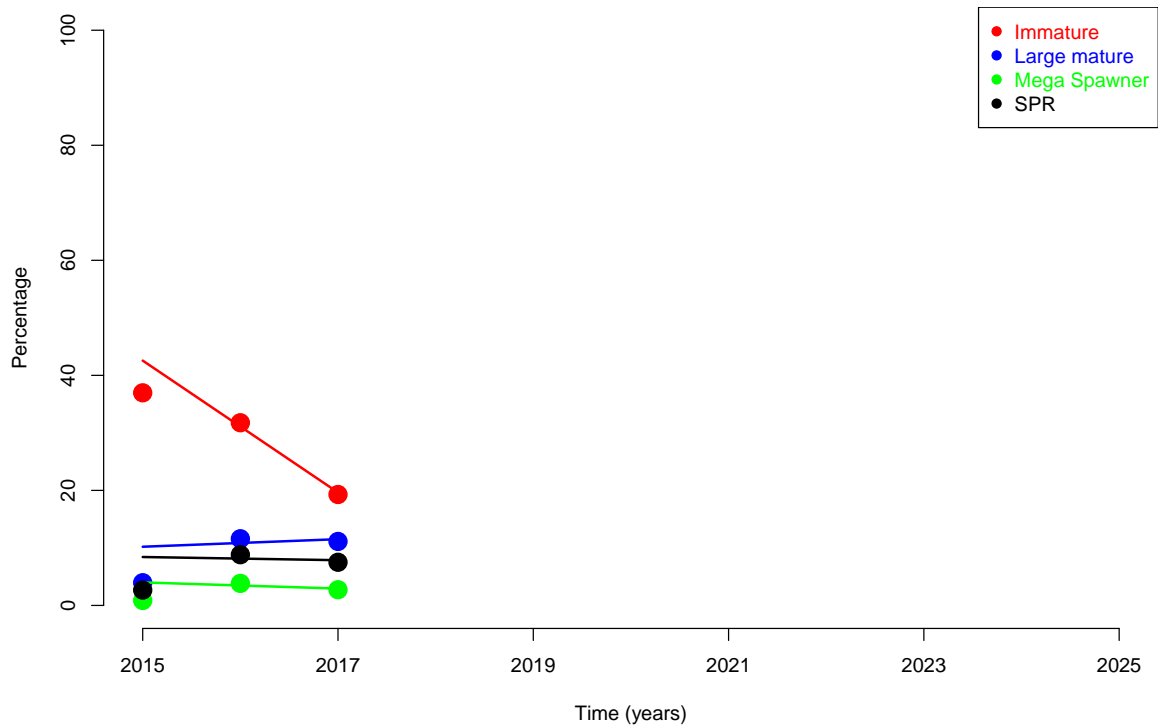
Dropline – Trends by size group for *Lutjanus malabaricus* (ID #17, Lutjanidae)

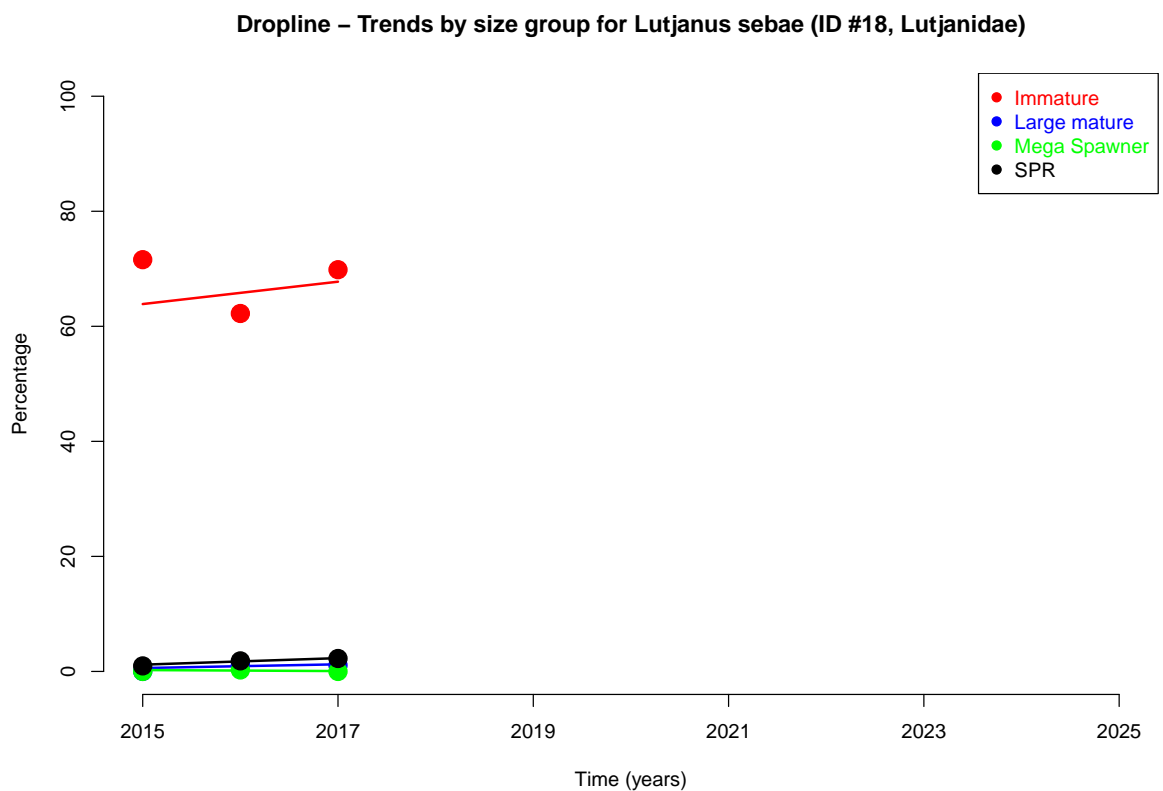
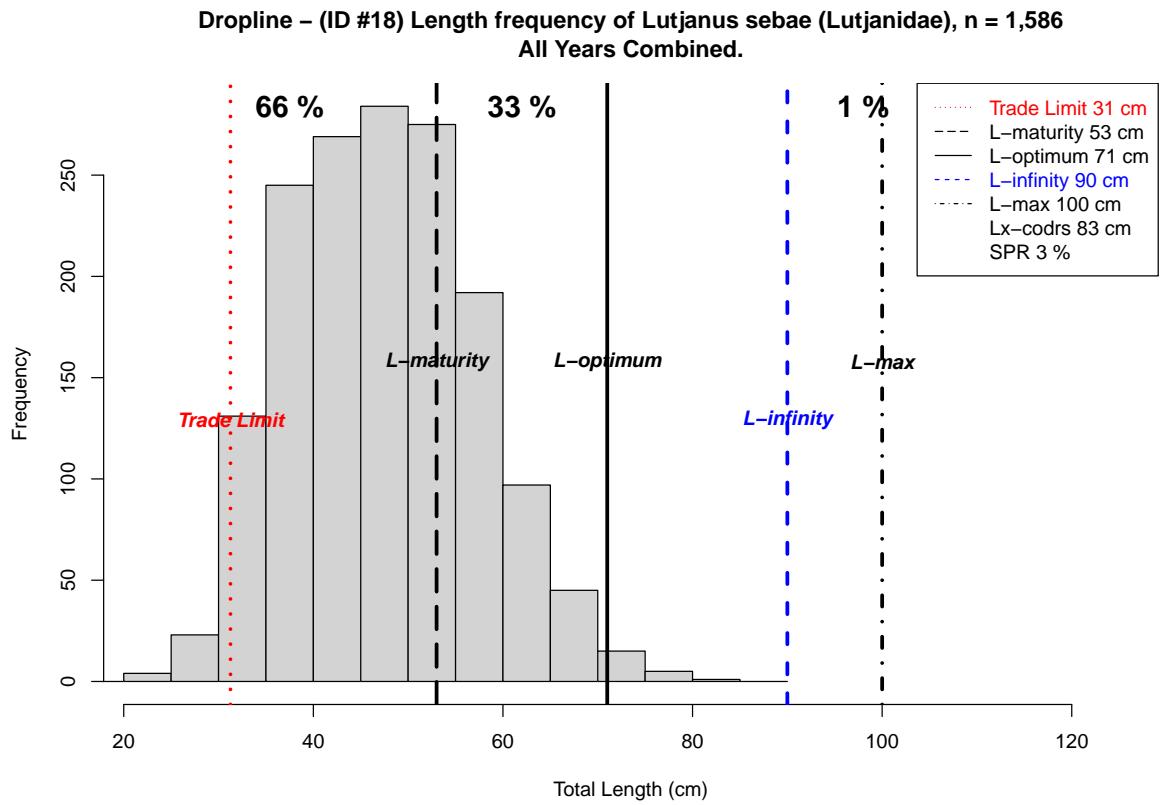


Longline – (ID #17) Length frequency of *Lutjanus malabaricus* (Lutjanidae), n = 35,333
 All Years Combined.

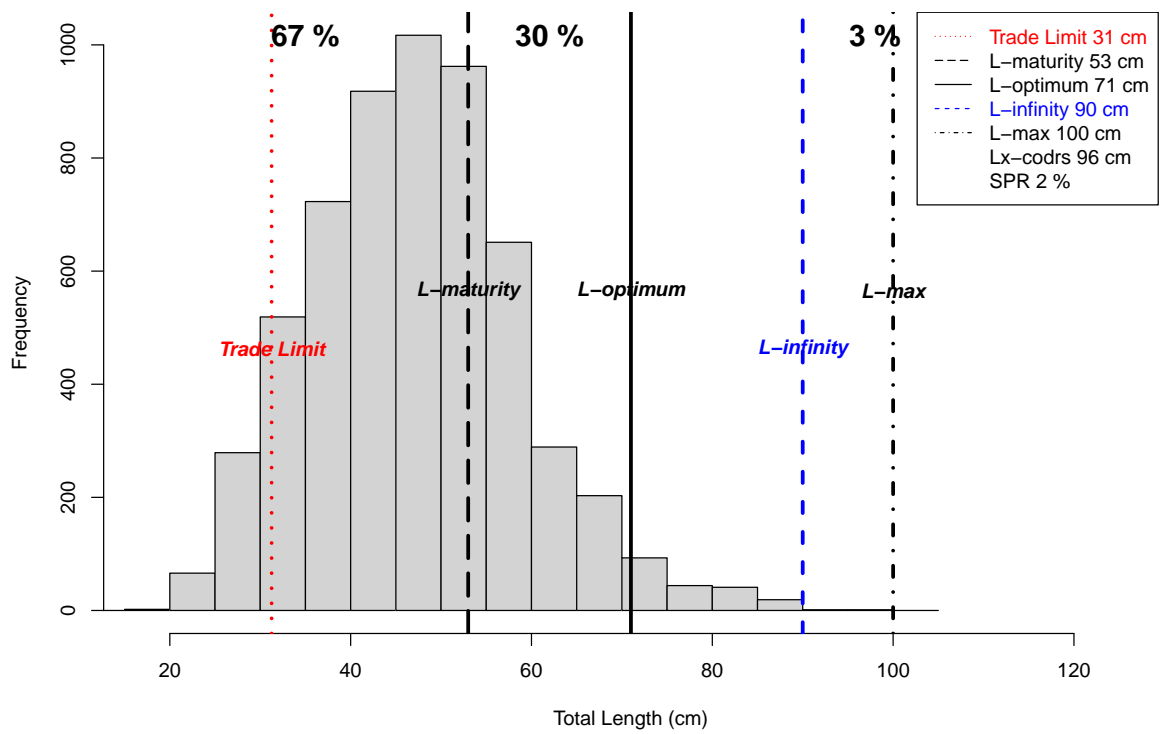


Longline – Trends by size group for *Lutjanus malabaricus* (ID #17, Lutjanidae)

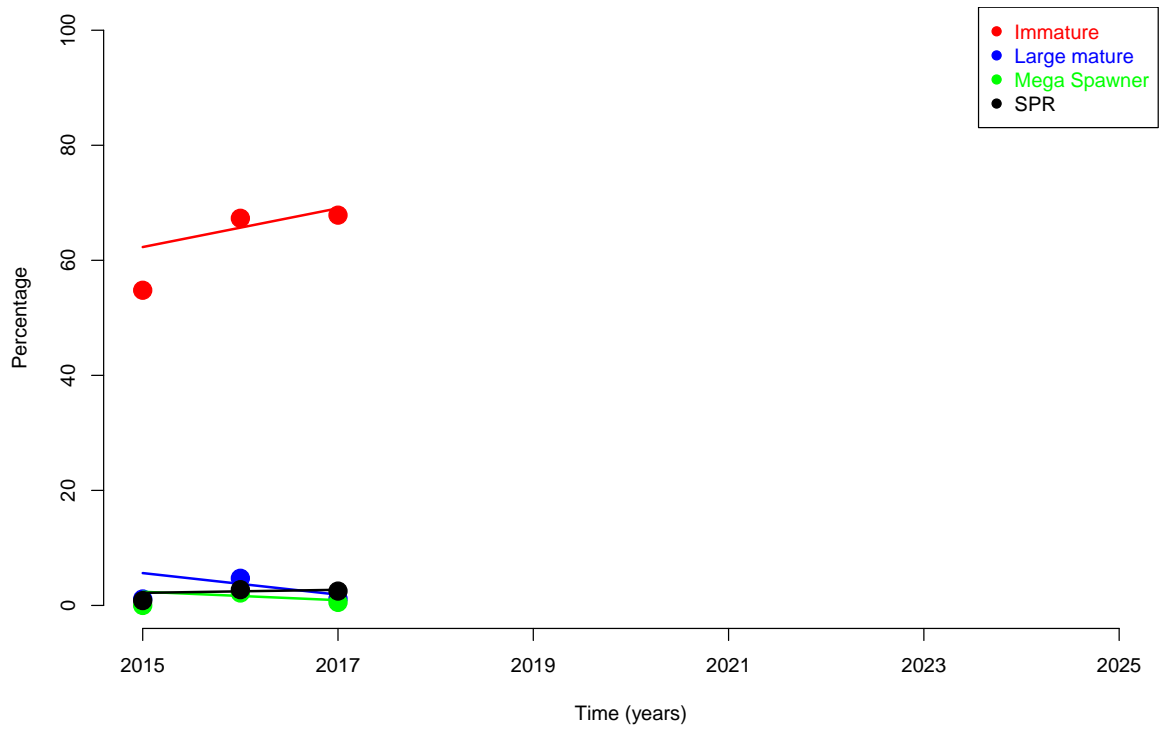




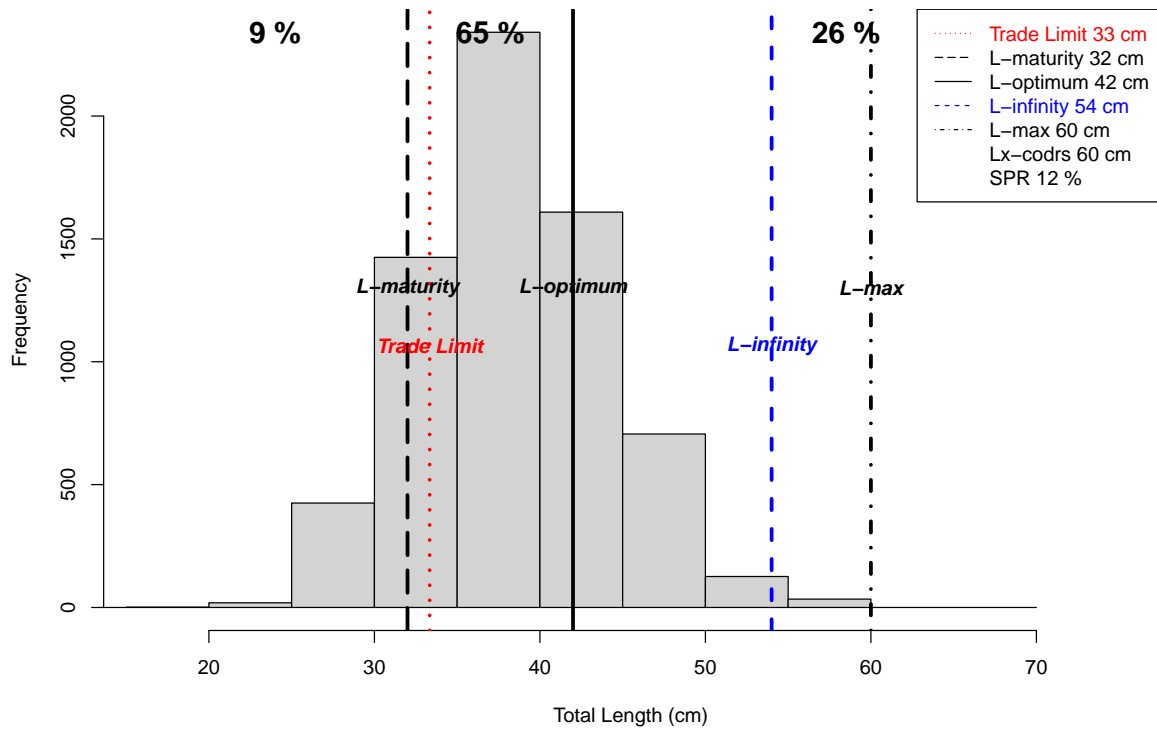
Longline – (ID #18) Length frequency of *Lutjanus sebae* (Lutjanidae), n = 5,828
 All Years Combined.



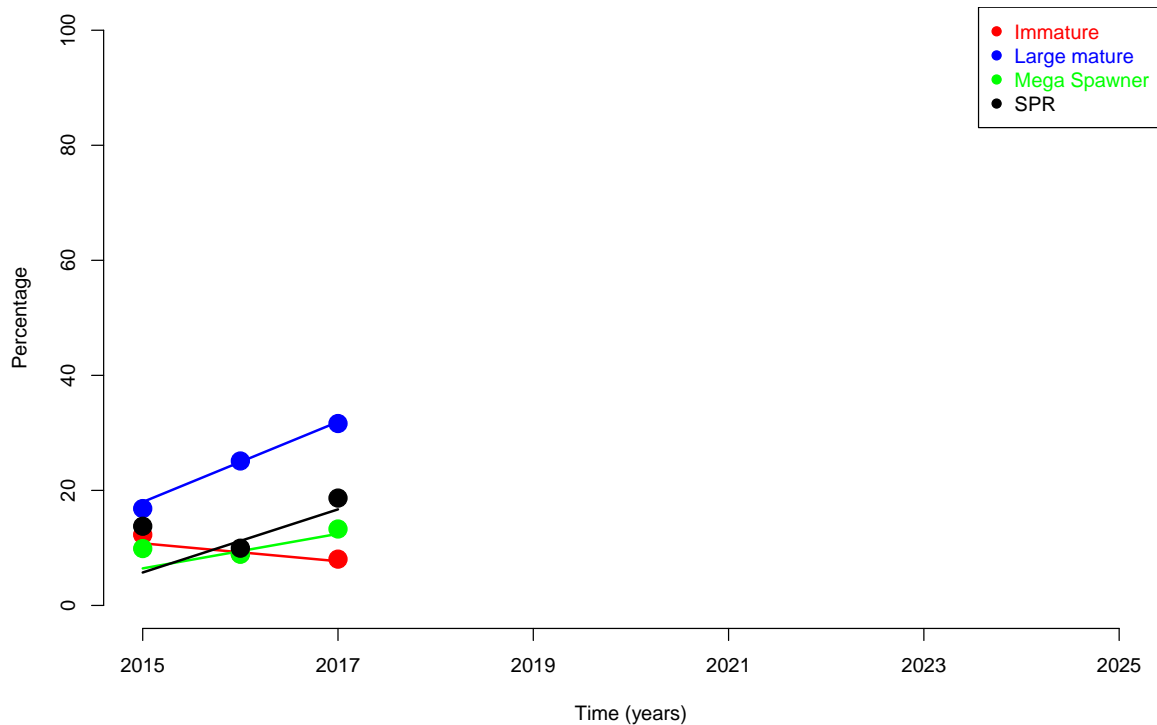
Longline – Trends by size group for *Lutjanus sebae* (ID #18, Lutjanidae)



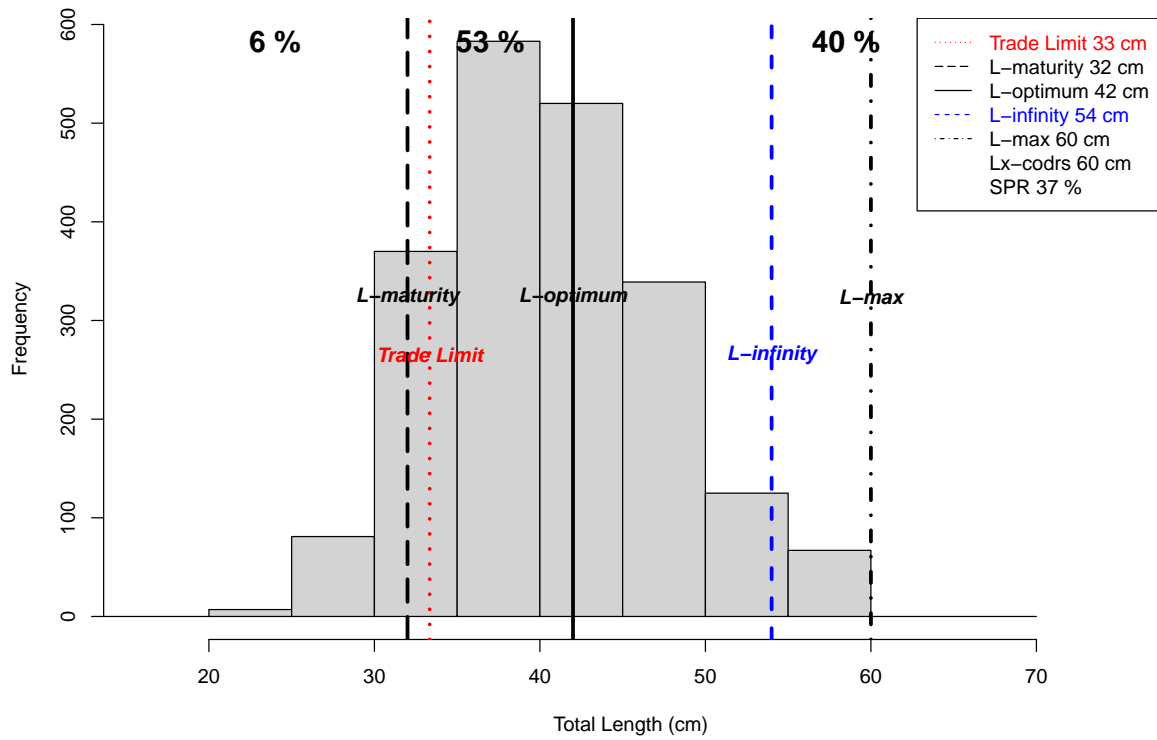
**Dropline – (ID #19) Length frequency of *Lutjanus timorensis* (Lutjanidae), n = 6,686
 All Years Combined.**



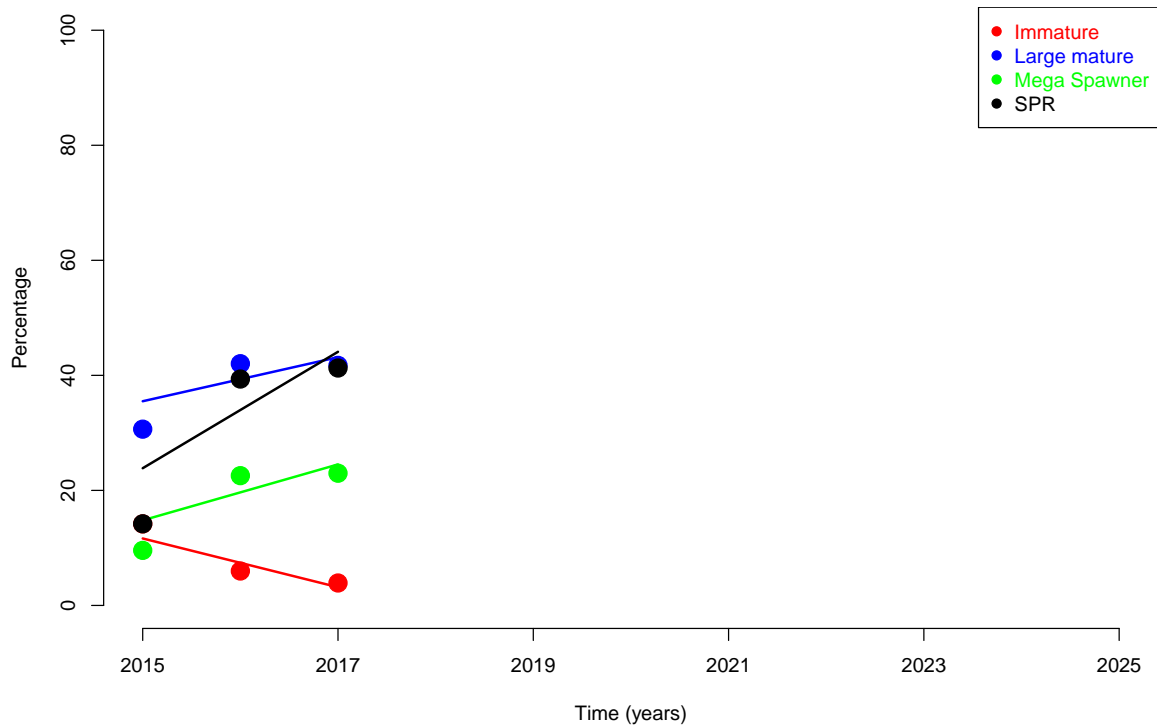
Dropline – Trends by size group for *Lutjanus timorensis* (ID #19, Lutjanidae)



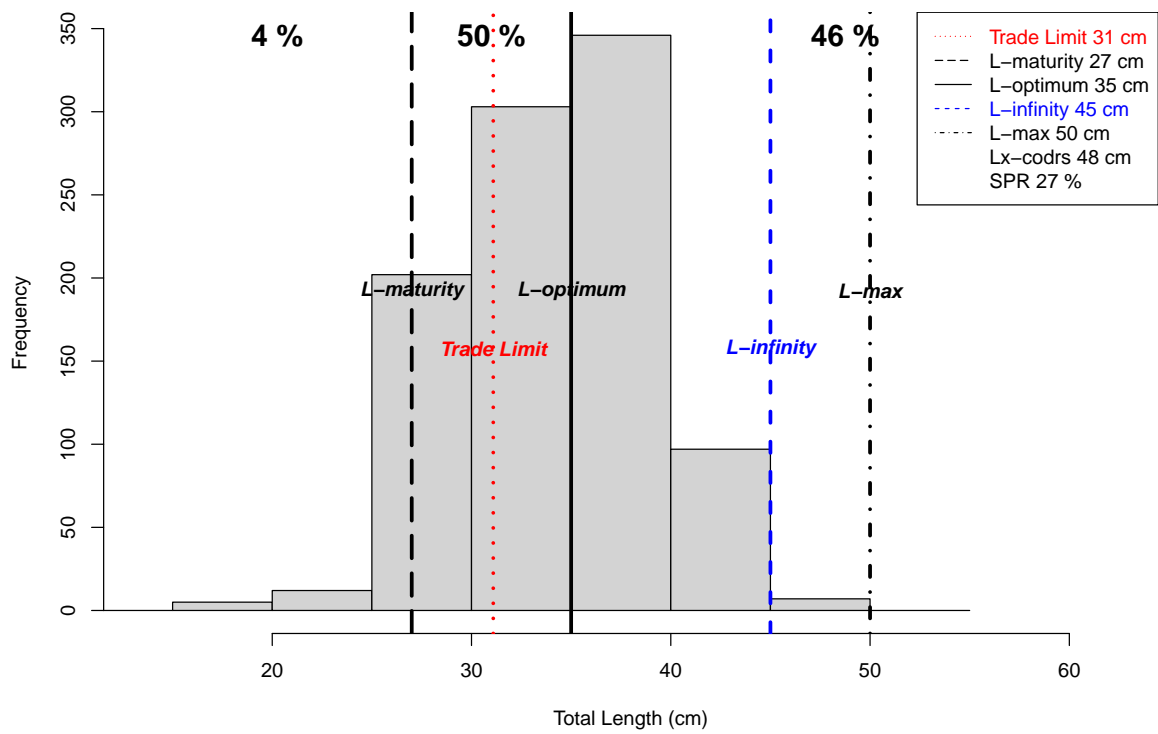
Longline – (ID #19) Length frequency of *Lutjanus timorensis* (Lutjanidae), n = 2,092
 All Years Combined.



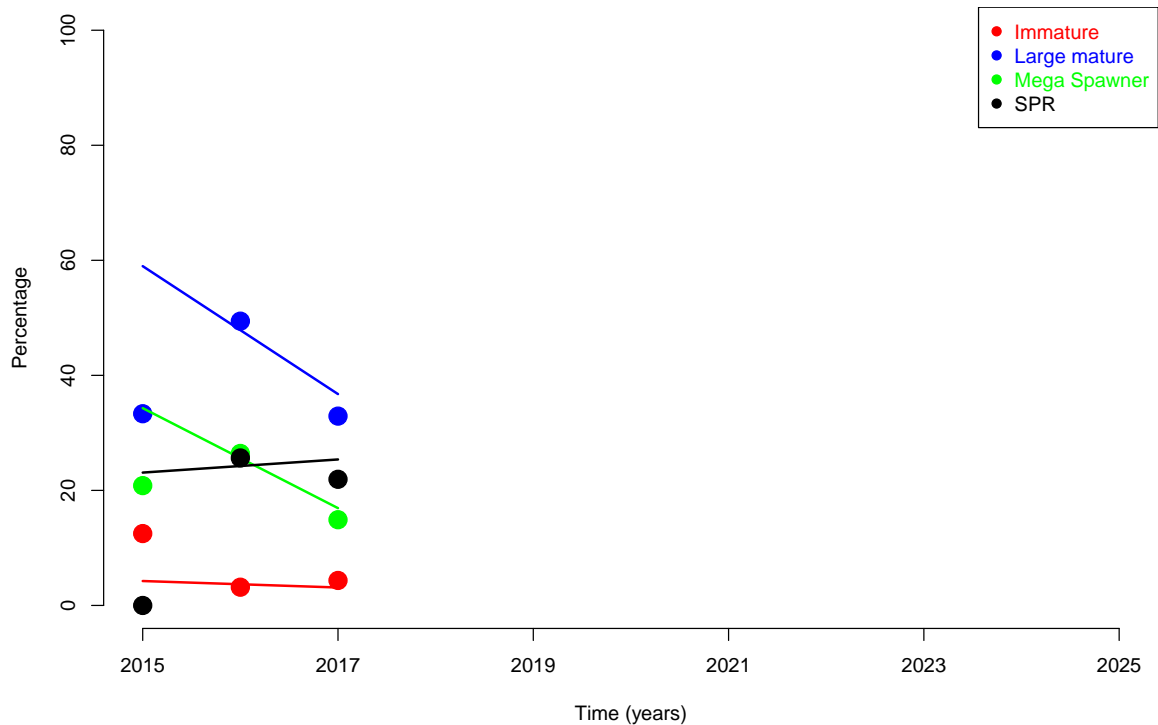
Longline – Trends by size group for *Lutjanus timorensis* (ID #19, Lutjanidae)



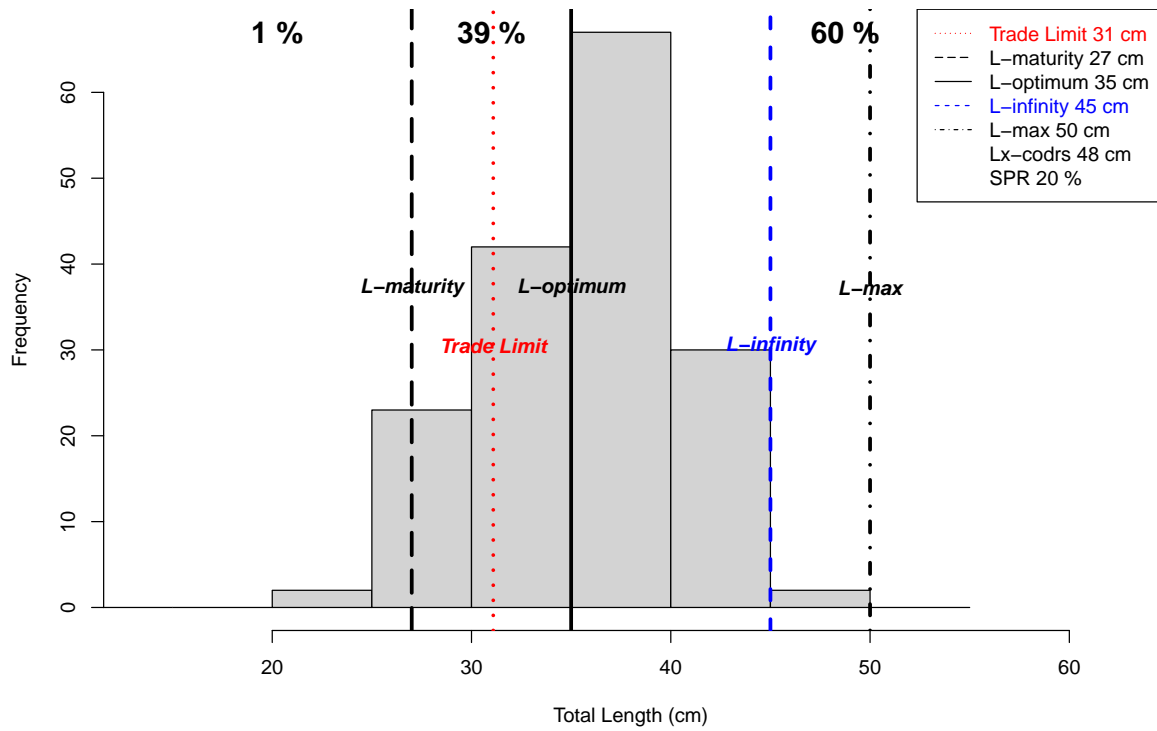
**Dropline – (ID #20) Length frequency of *Lutjanus gibbus* (Lutjanidae), n = 972
 All Years Combined.**



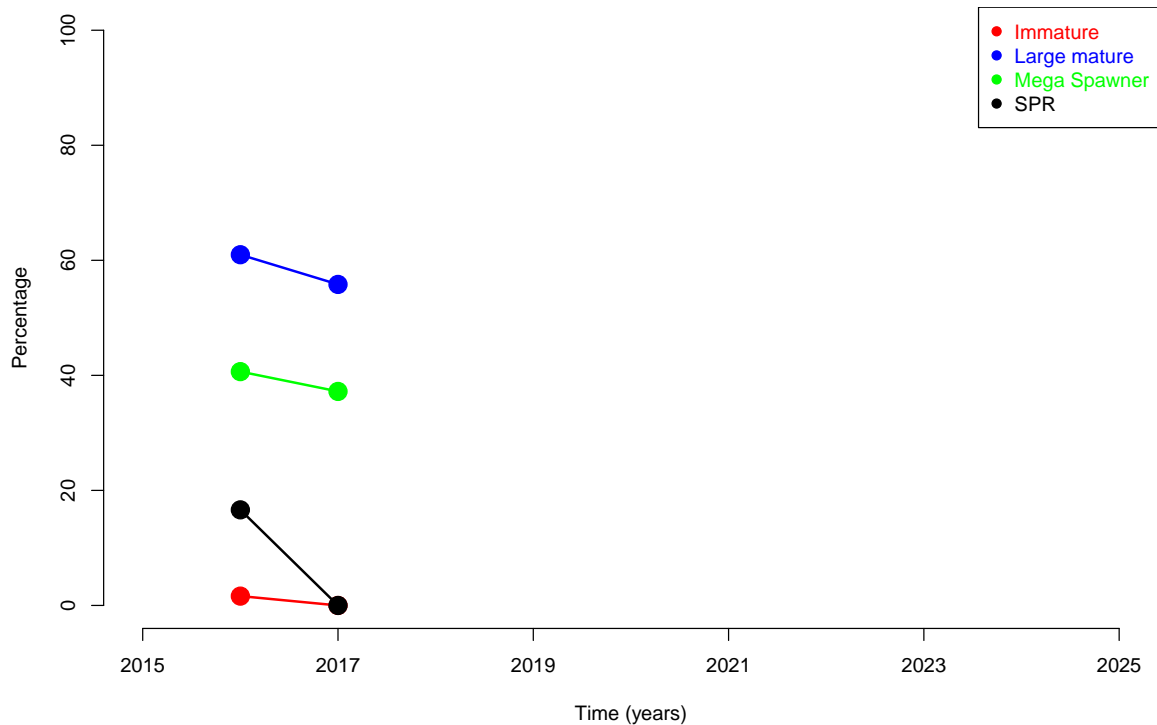
Dropline – Trends by size group for *Lutjanus gibbus* (ID #20, Lutjanidae)



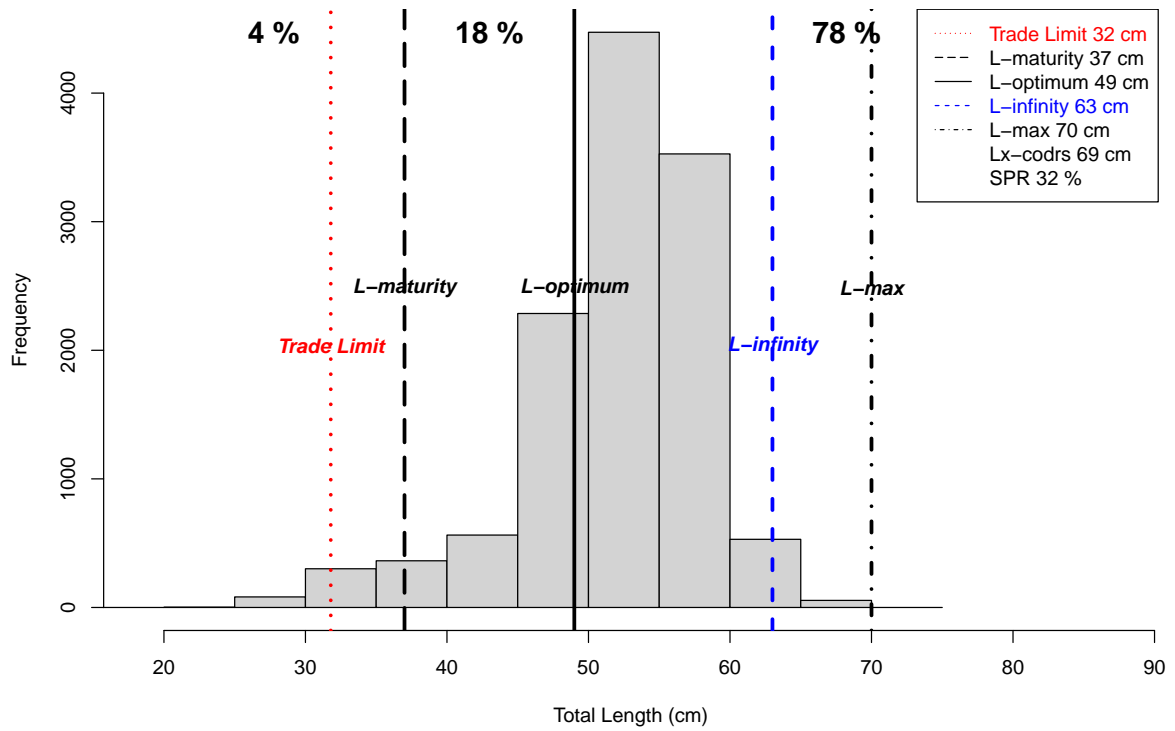
Longline – (ID #20) Length frequency of *Lutjanus gibbus* (Lutjanidae), n = 166
 All Years Combined.



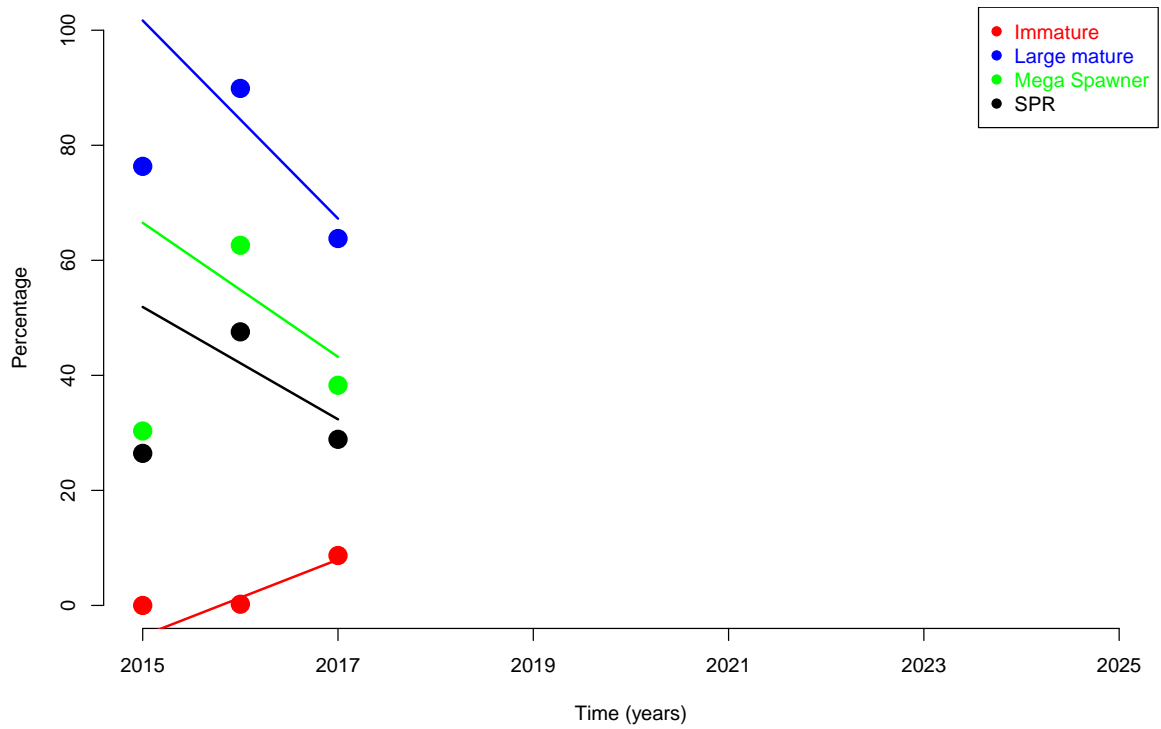
Longline – Trends by size group for *Lutjanus gibbus* (ID #20, Lutjanidae)



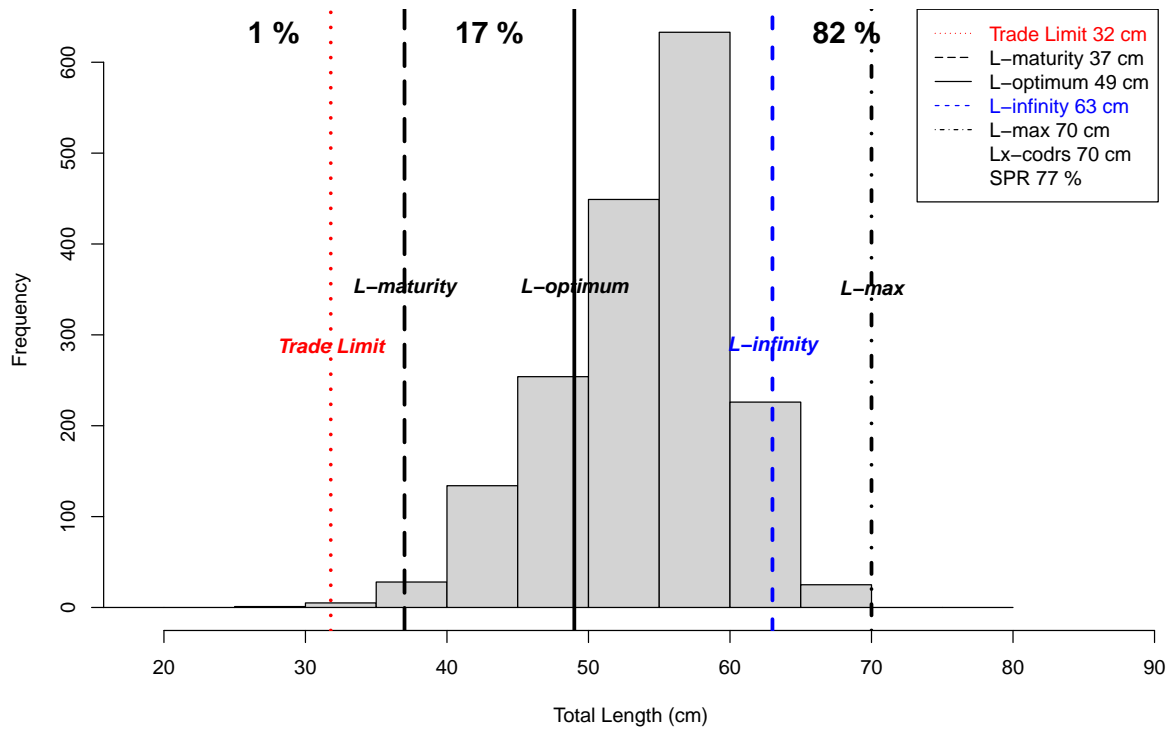
**Dropline – (ID #21) Length frequency of *Lutjanus erythropterus* (Lutjanidae), n = 12,182
 All Years Combined.**



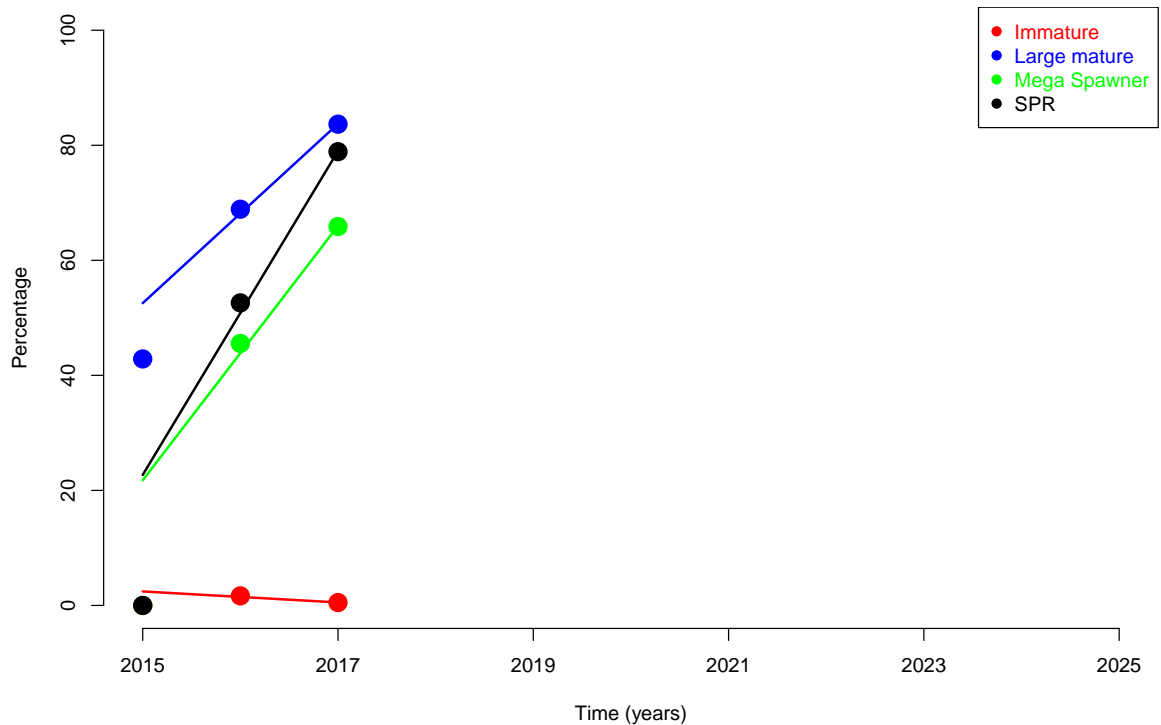
Dropline – Trends by size group for *Lutjanus erythropterus* (ID #21, Lutjanidae)

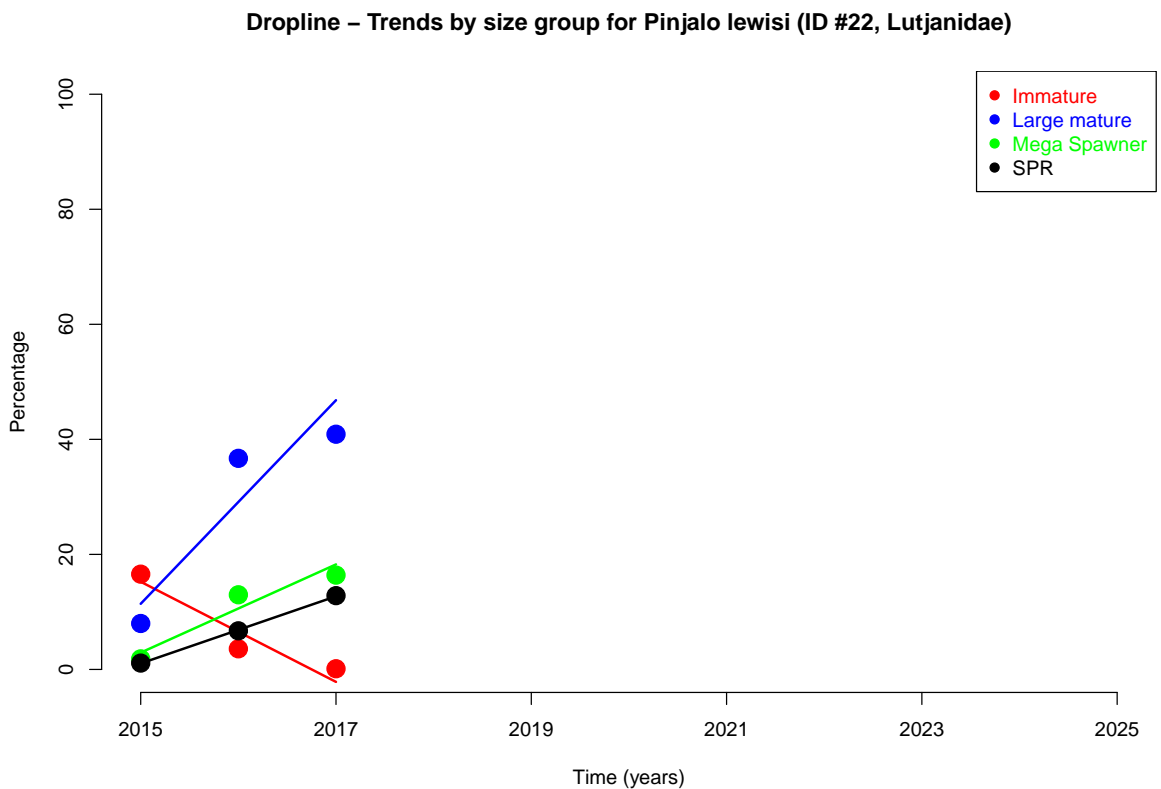
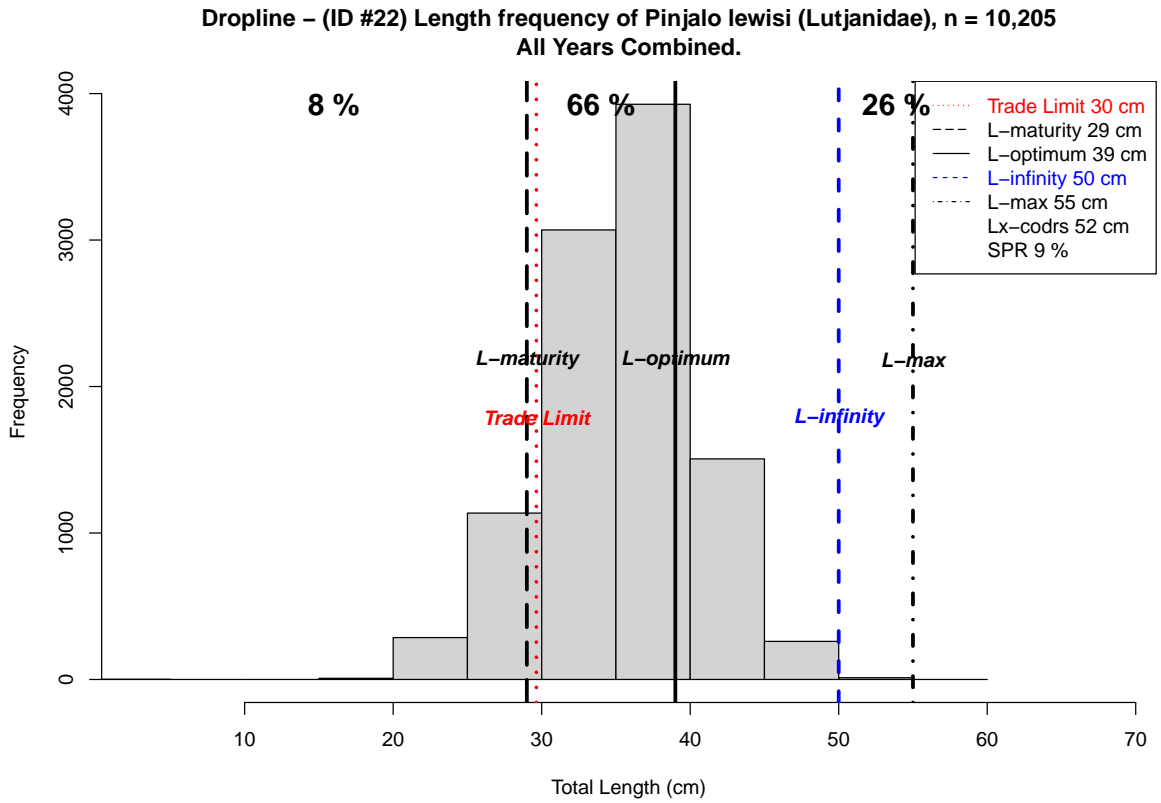


Longline – (ID #21) Length frequency of *Lutjanus erythropterus* (Lutjanidae), n = 1,755
 All Years Combined.

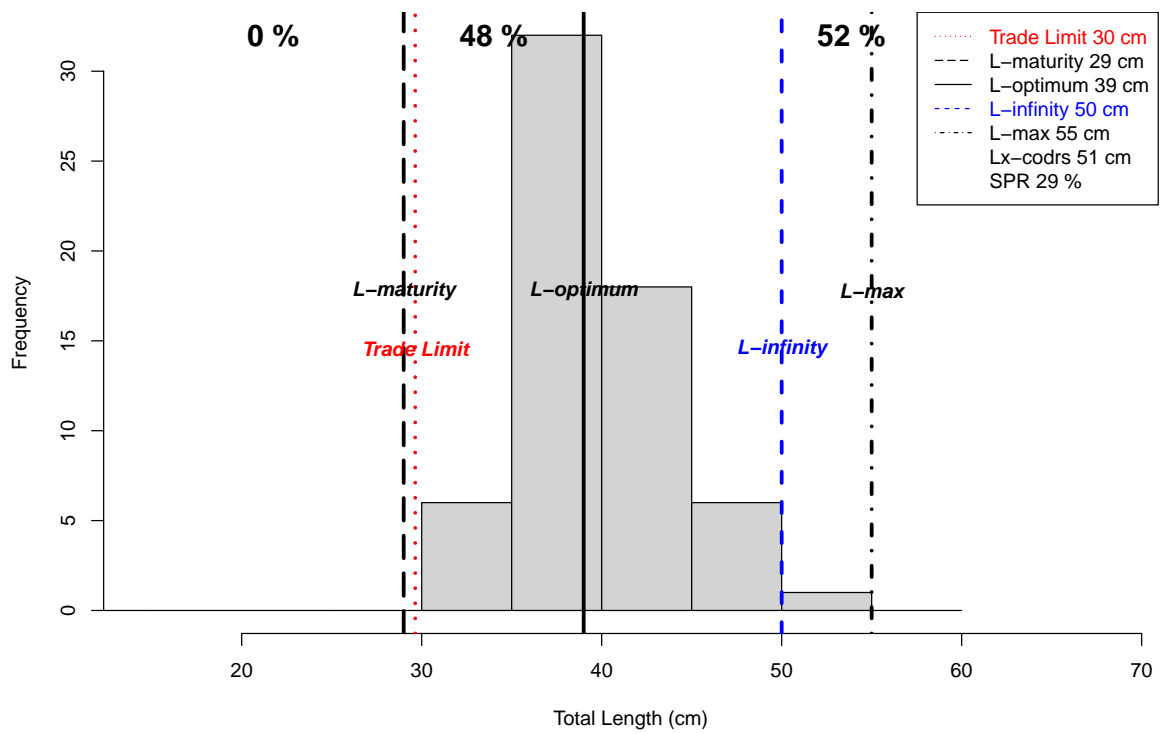


Longline – Trends by size group for *Lutjanus erythropterus* (ID #21, Lutjanidae)

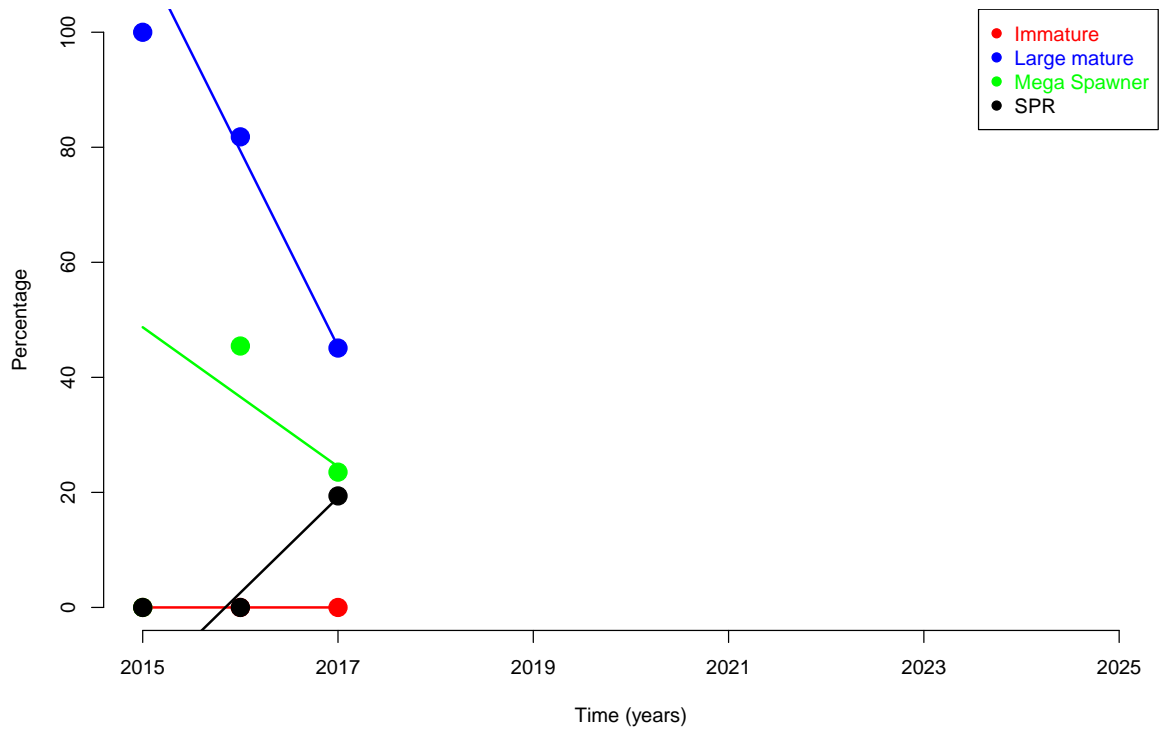




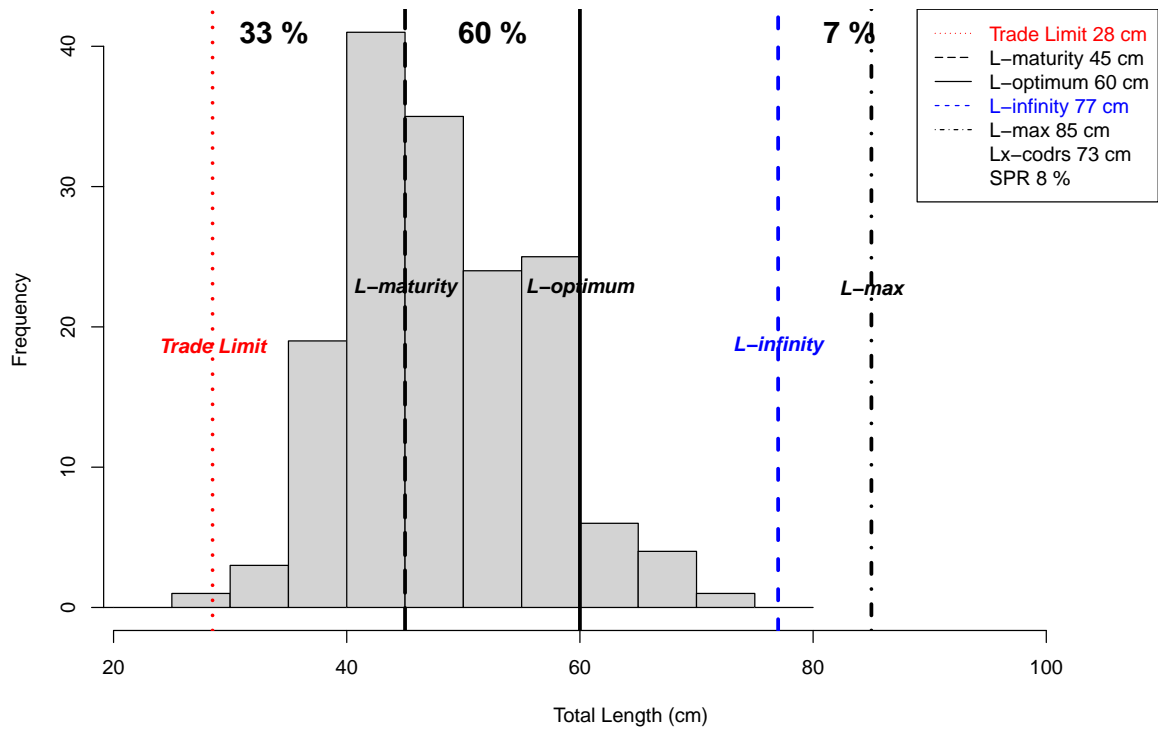
Longline – (ID #22) Length frequency of Pinjalo lewisi (Lutjanidae), n = 63
 All Years Combined.



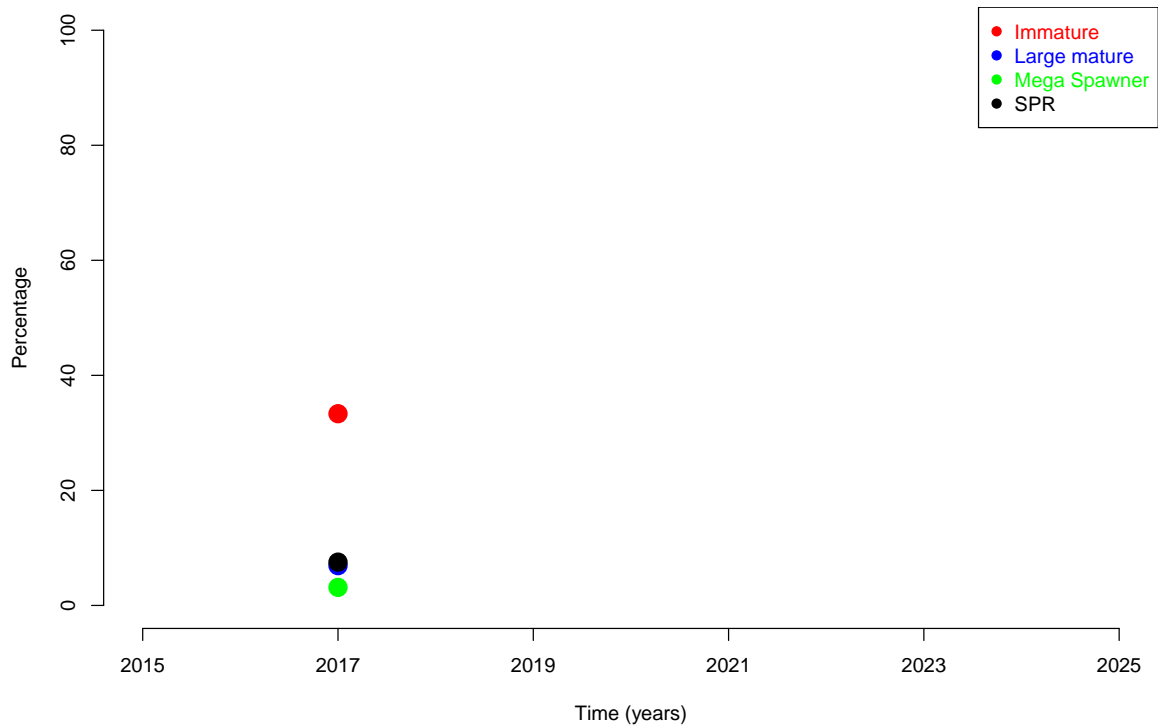
Longline – Trends by size group for Pinjalo lewisi (ID #22, Lutjanidae)



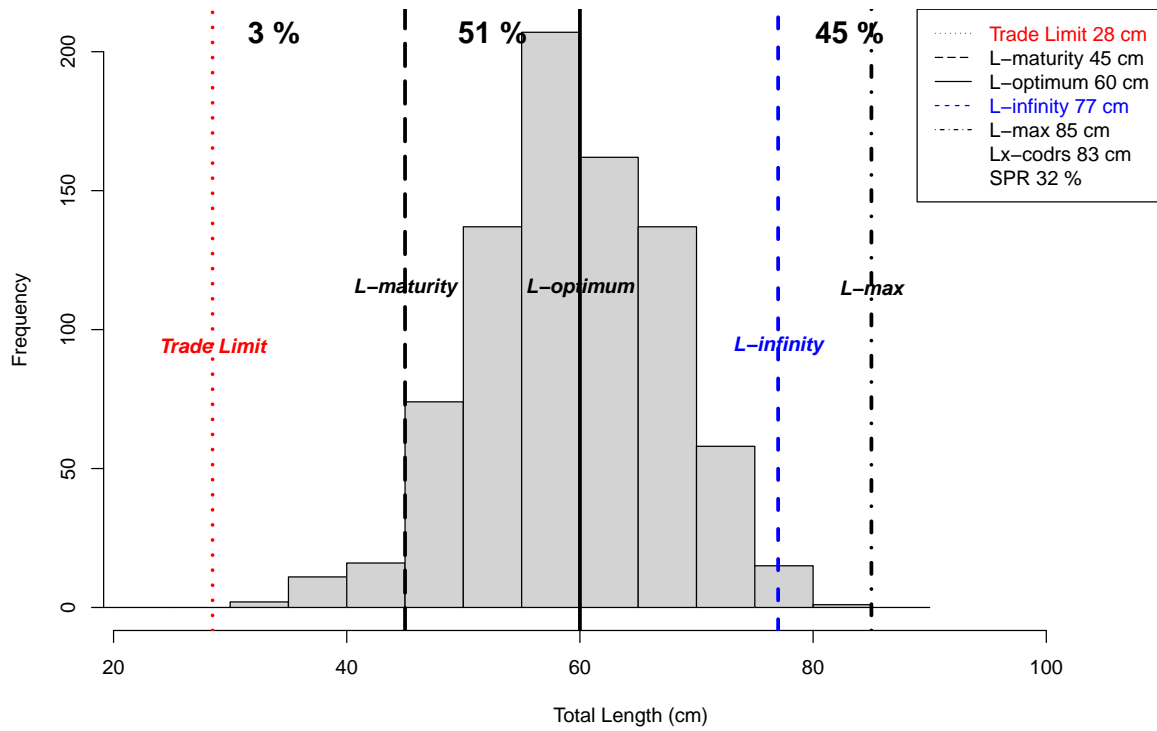
**Dropline – (ID #24) Length frequency of *Lutjanus johnii* (Lutjanidae), n = 159
 All Years Combined.**



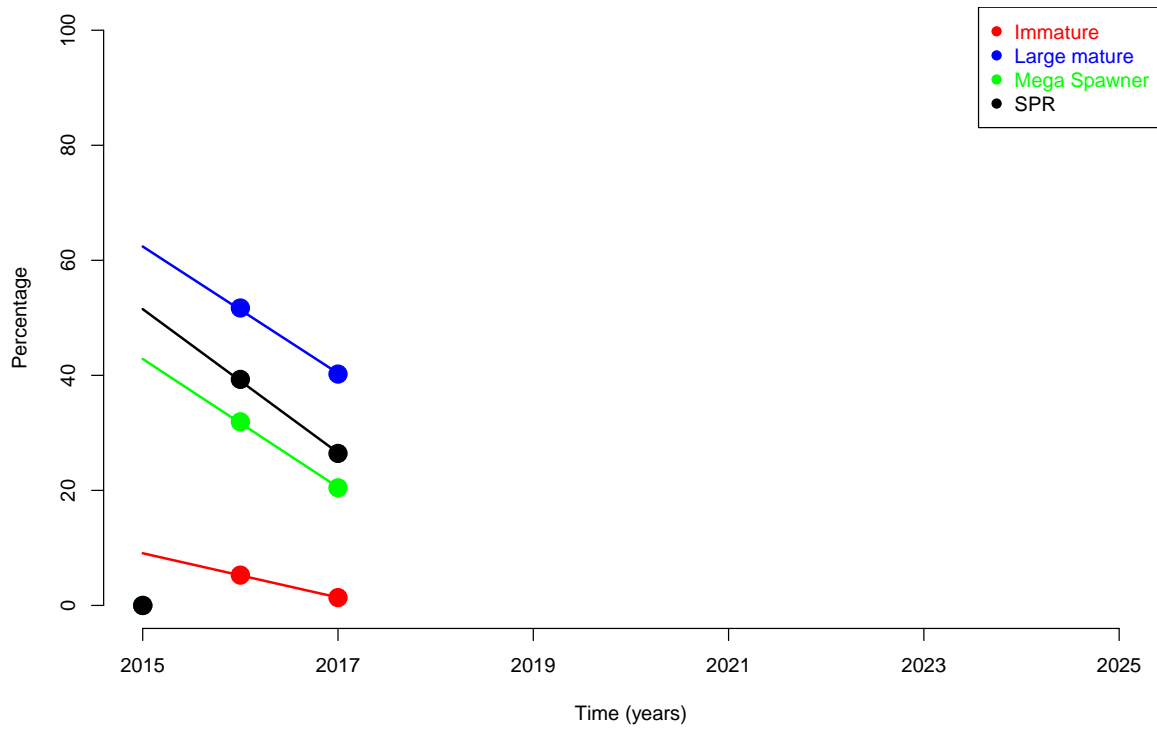
Dropline – Trends by size group for *Lutjanus johnii* (ID #24, Lutjanidae)



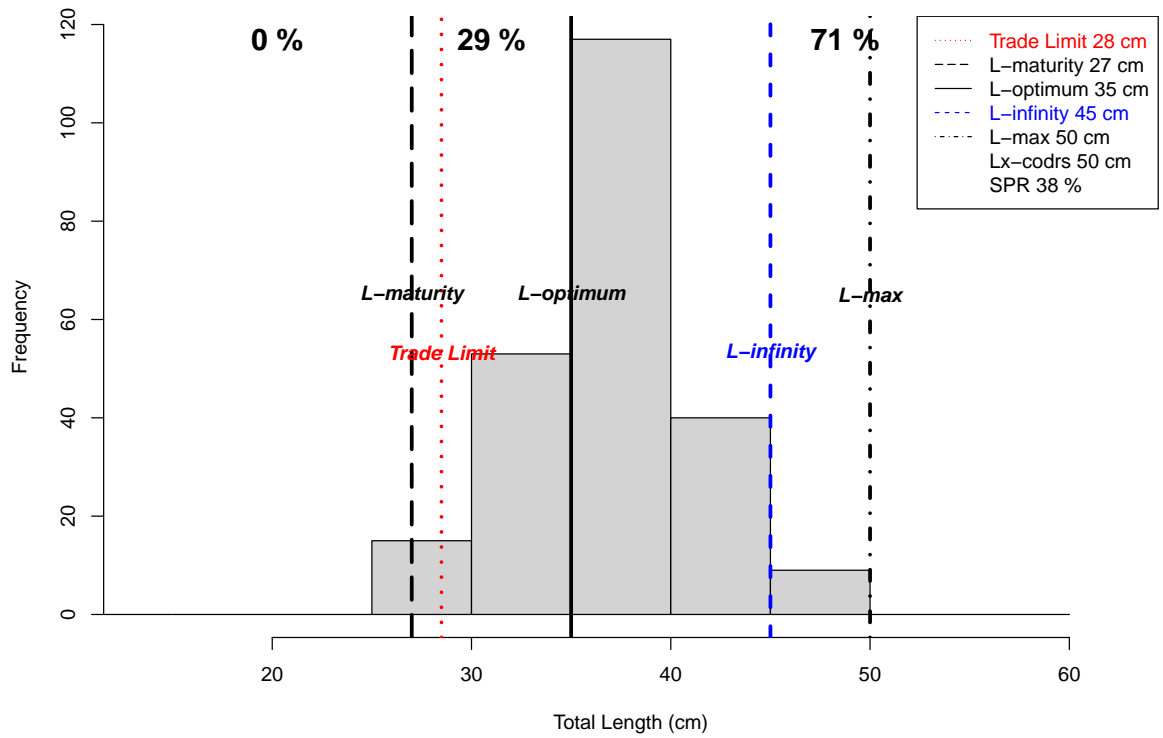
Longline – (ID #24) Length frequency of *Lutjanus johnii* (Lutjanidae), n = 820
 All Years Combined.



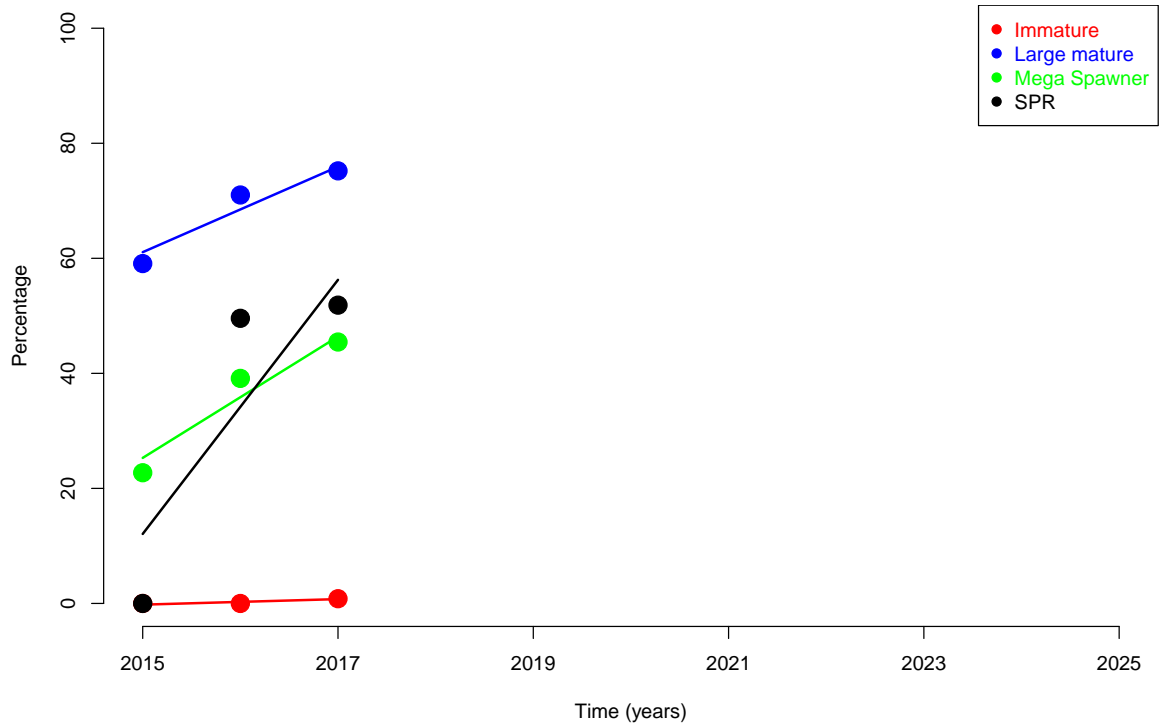
Longline – Trends by size group for *Lutjanus johnii* (ID #24, Lutjanidae)



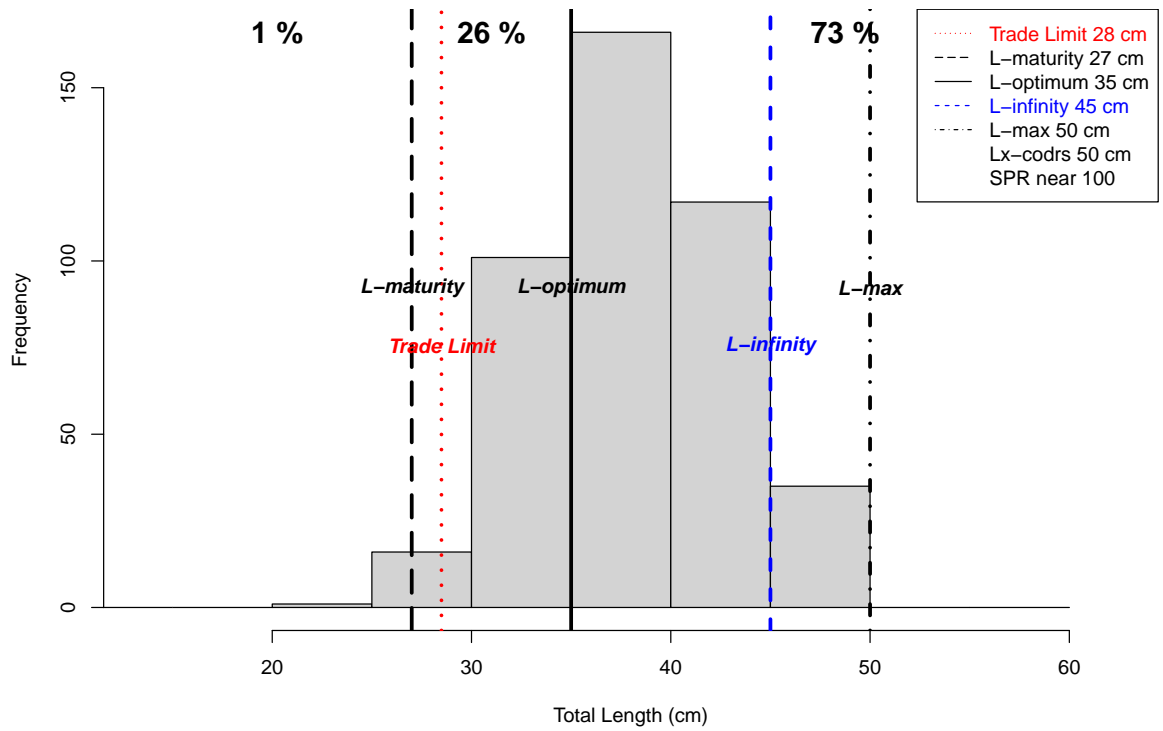
**Dropline – (ID #25) Length frequency of *Lutjanus russelli* (Lutjanidae), n = 234
 All Years Combined.**



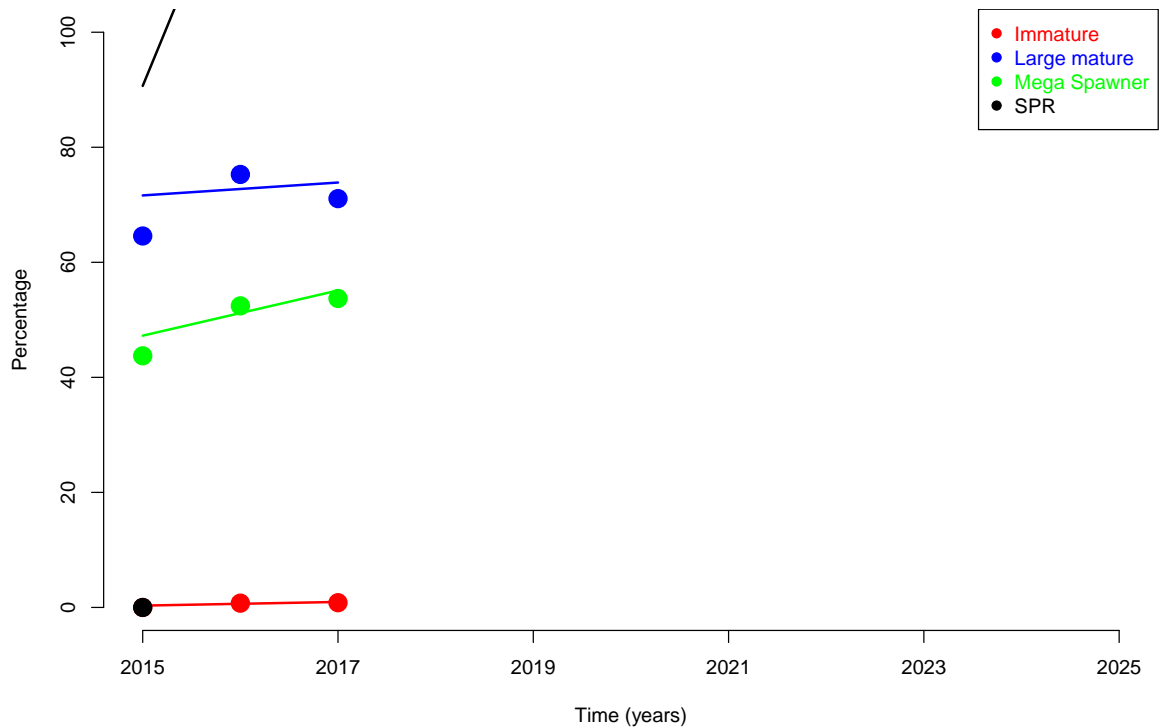
Dropline – Trends by size group for *Lutjanus russelli* (ID #25, Lutjanidae)



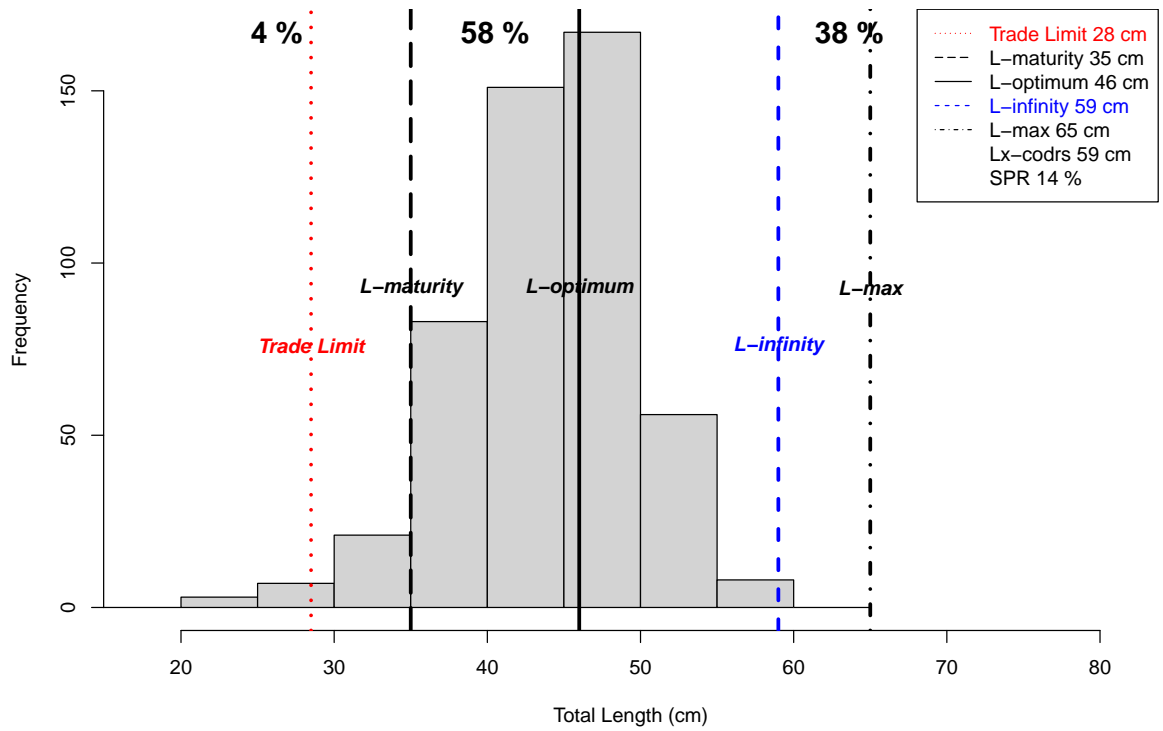
Longline – (ID #25) Length frequency of *Lutjanus russelli* (Lutjanidae), n = 436
 All Years Combined.



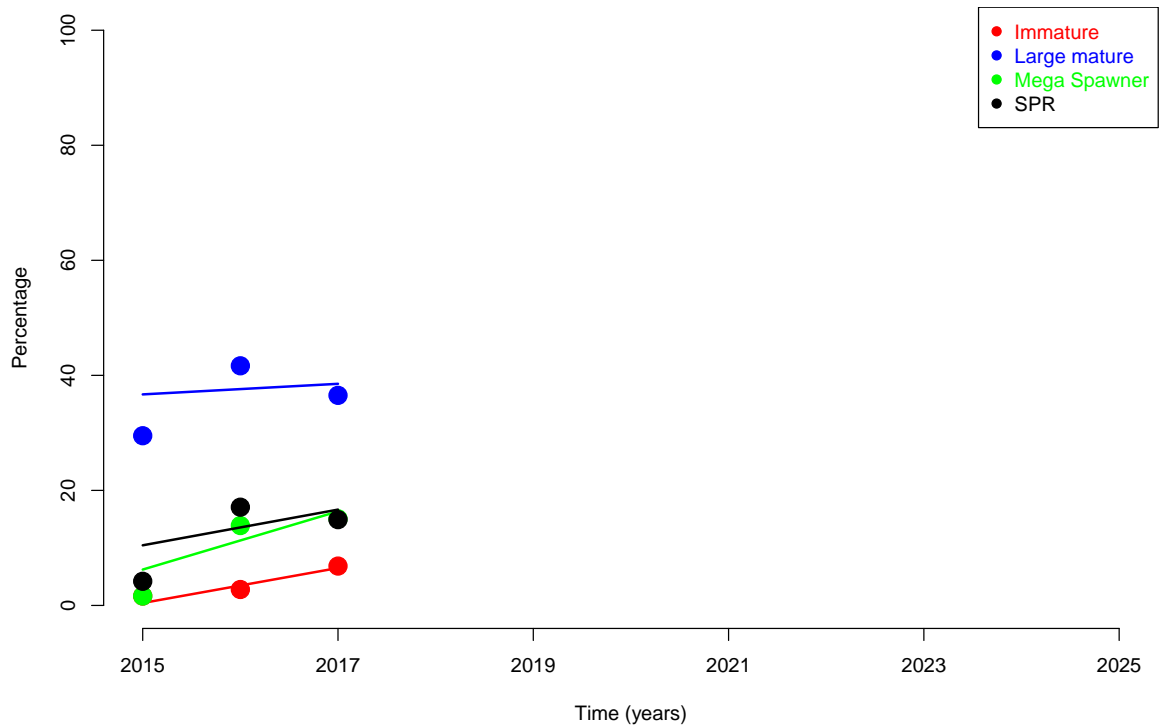
Longline – Trends by size group for *Lutjanus russelli* (ID #25, Lutjanidae)



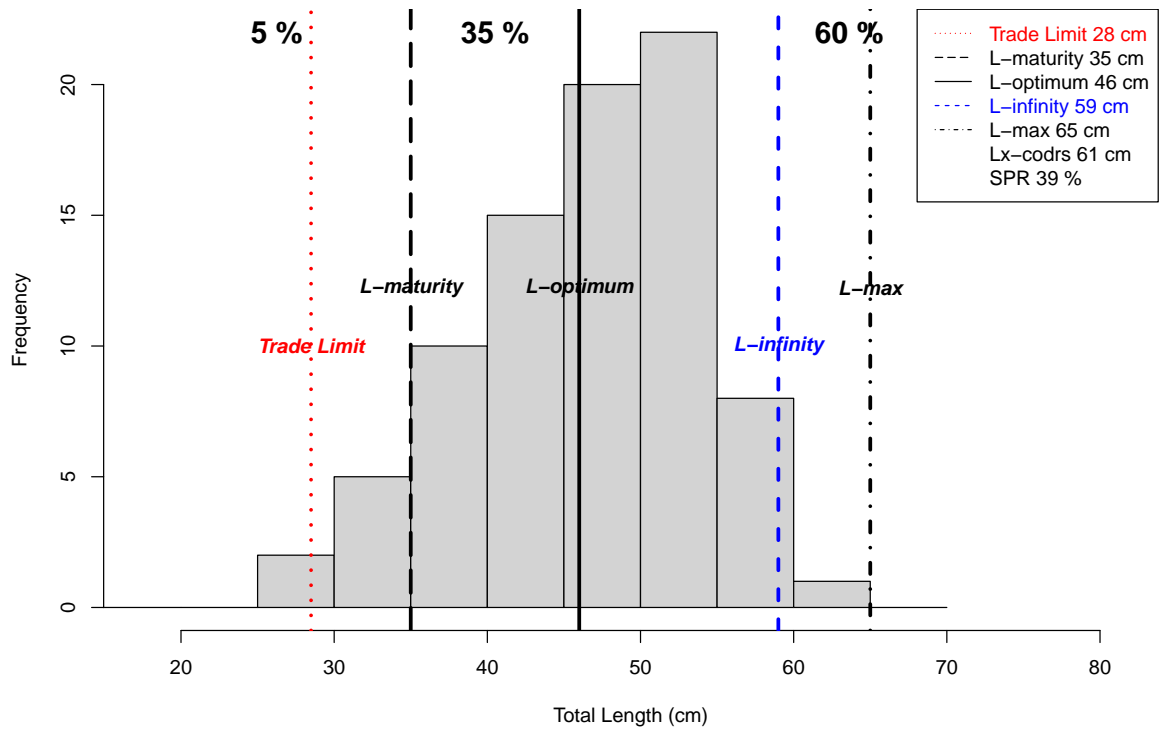
**Dropline – (ID #26) Length frequency of *Lutjanus lemniscatus* (Lutjanidae), n = 496
 All Years Combined.**



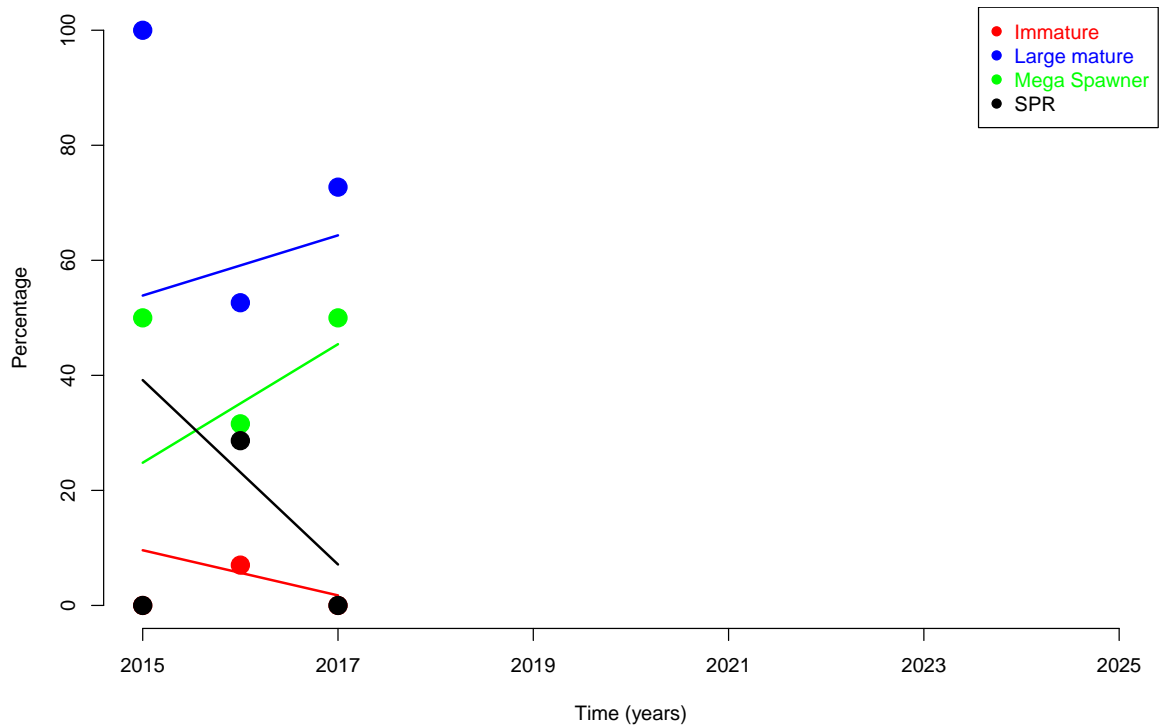
Dropline – Trends by size group for *Lutjanus lemniscatus* (ID #26, Lutjanidae)



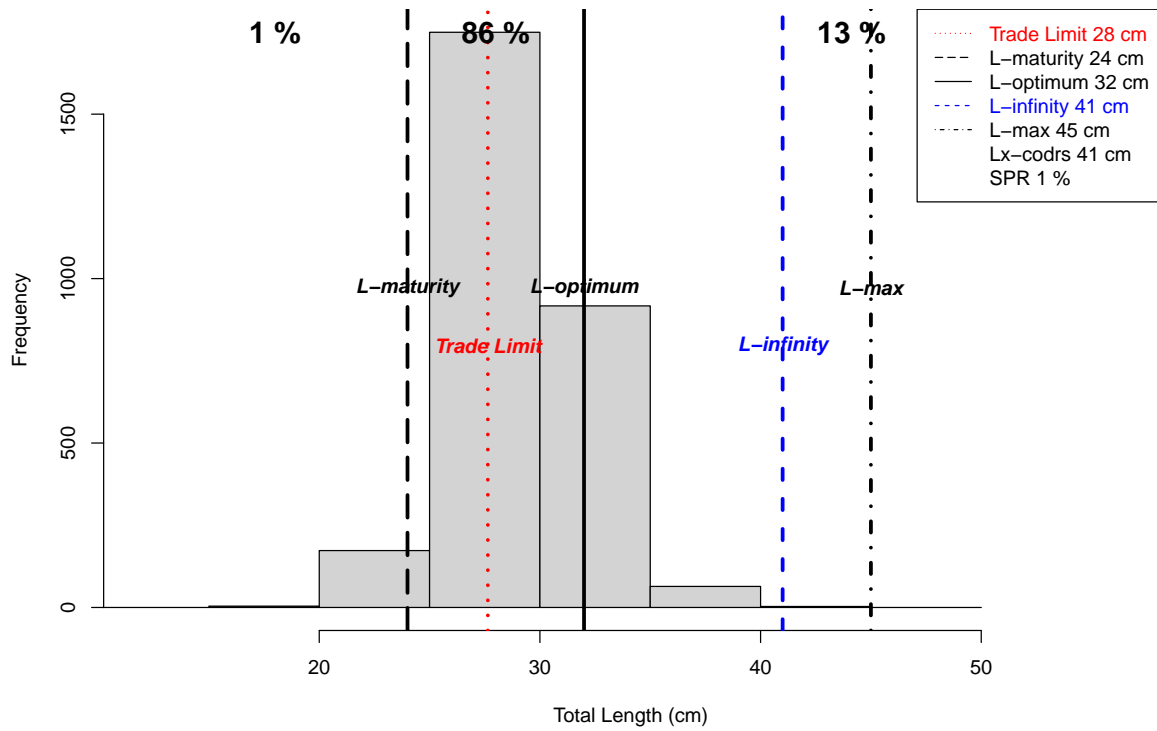
Longline – (ID #26) Length frequency of *Lutjanus lemniscatus* (Lutjanidae), n = 83
 All Years Combined.



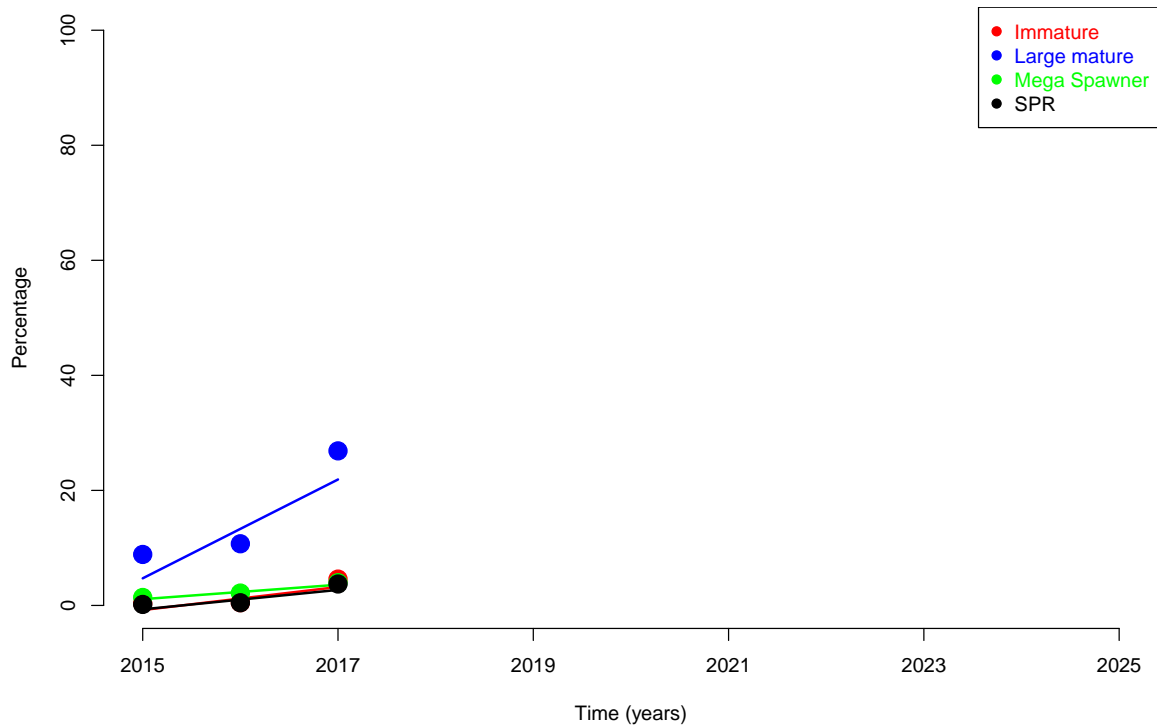
Longline – Trends by size group for *Lutjanus lemniscatus* (ID #26, Lutjanidae)

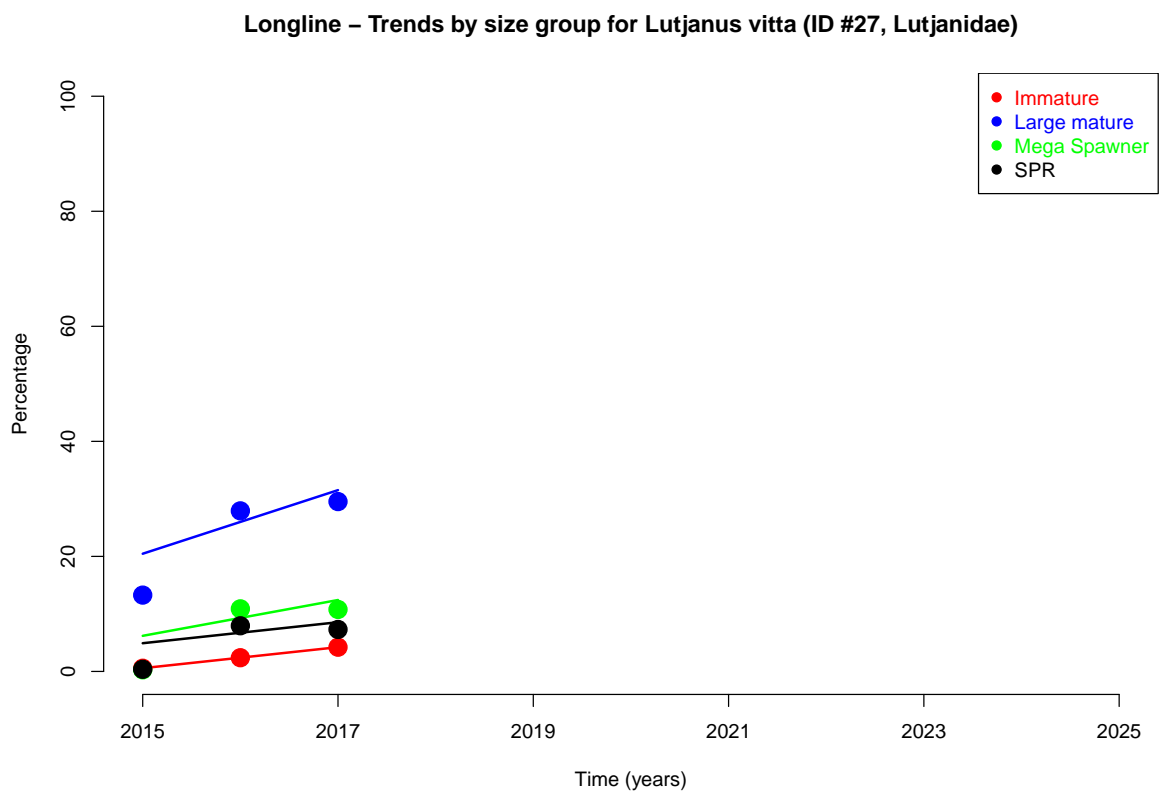
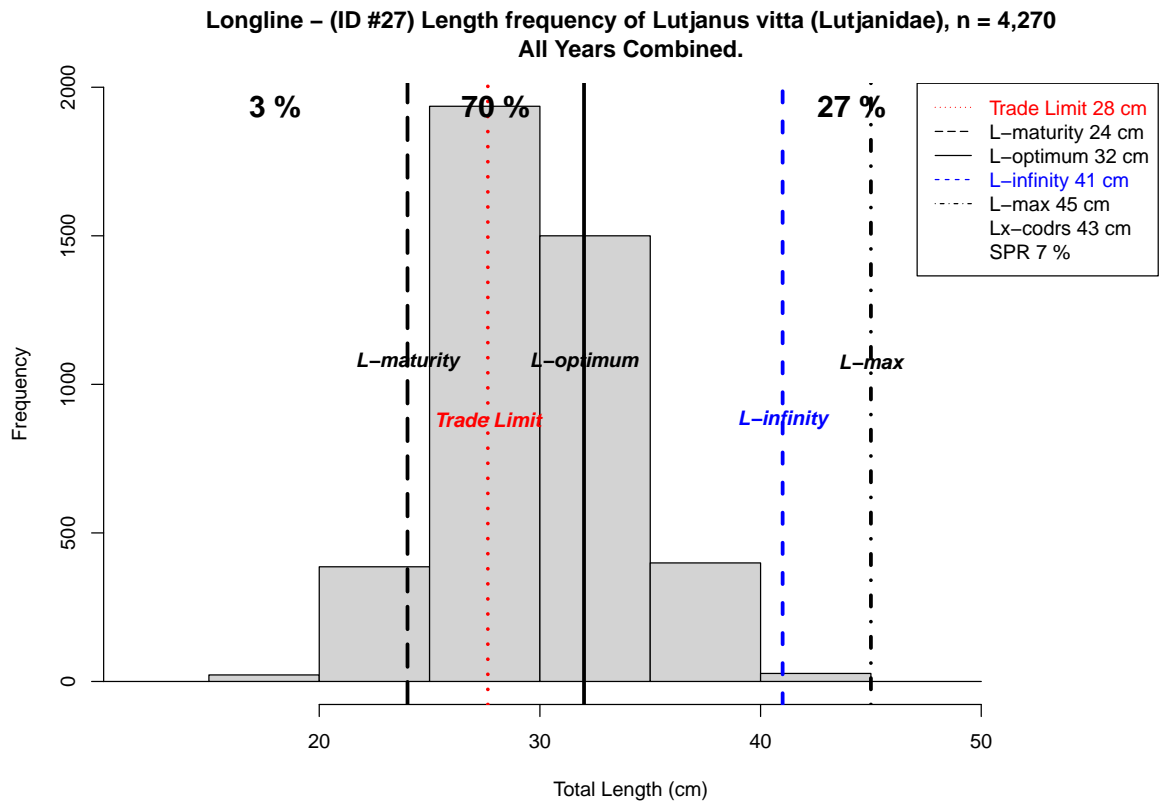


**Dropline – (ID #27) Length frequency of *Lutjanus vitta* (Lutjanidae), n = 2,910
 All Years Combined.**

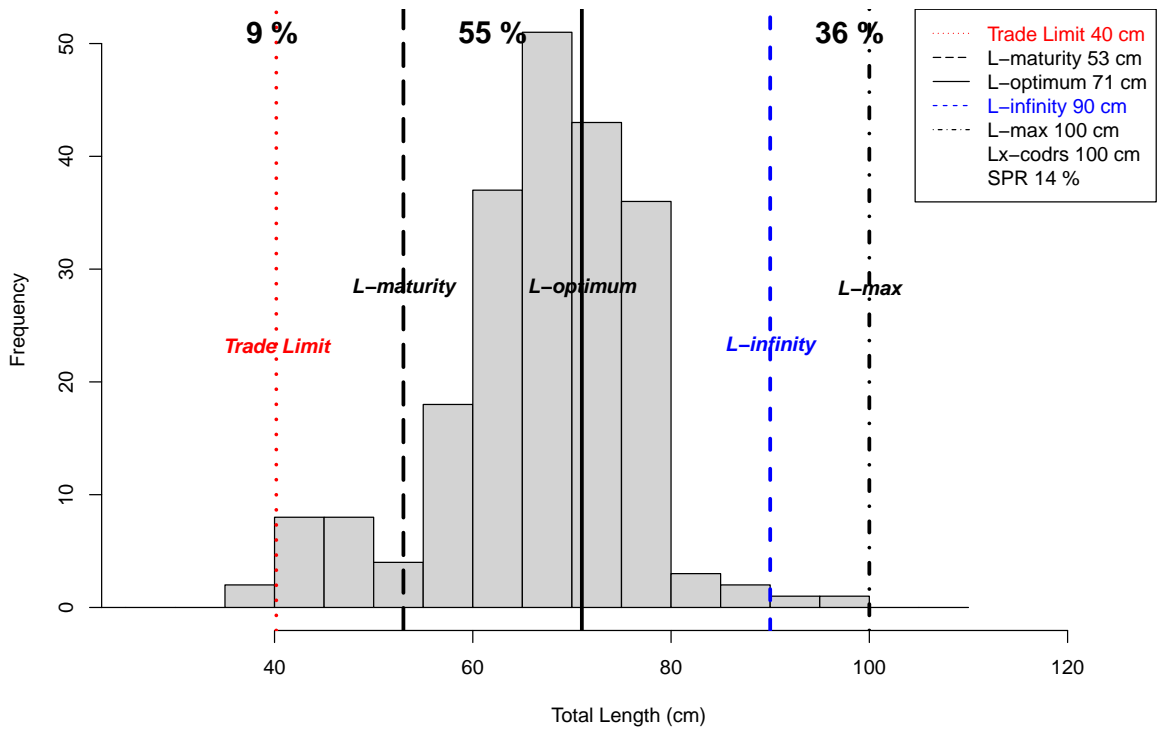


Dropline – Trends by size group for *Lutjanus vitta* (ID #27, Lutjanidae)

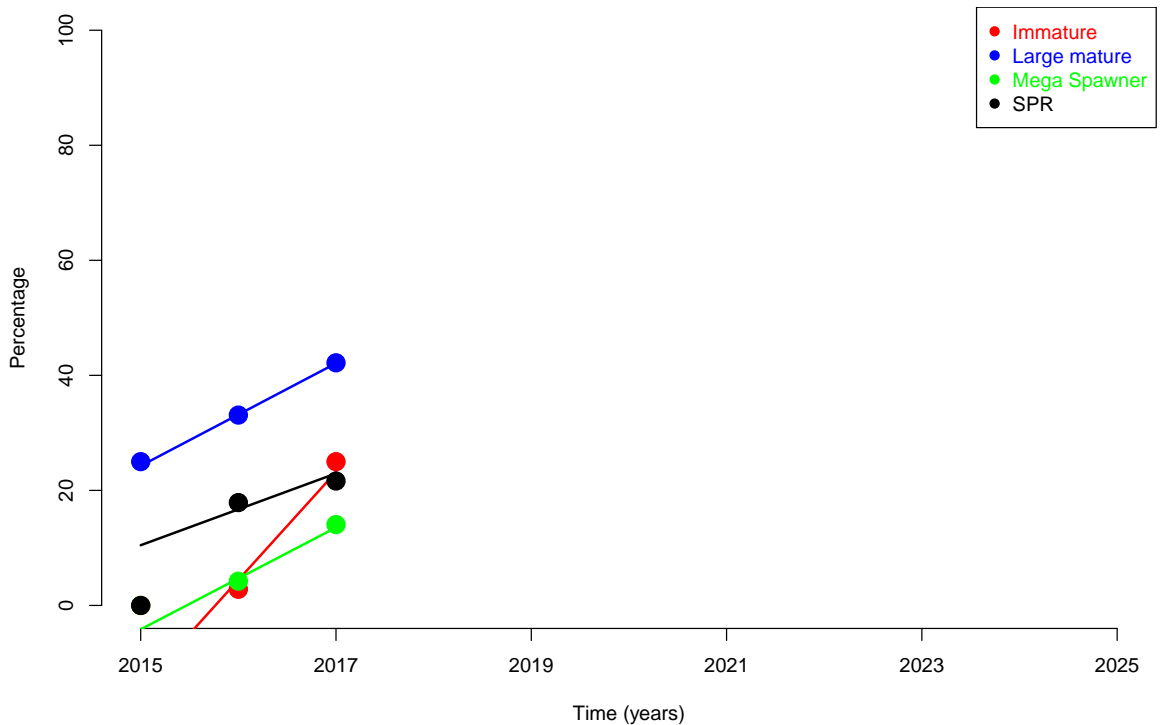




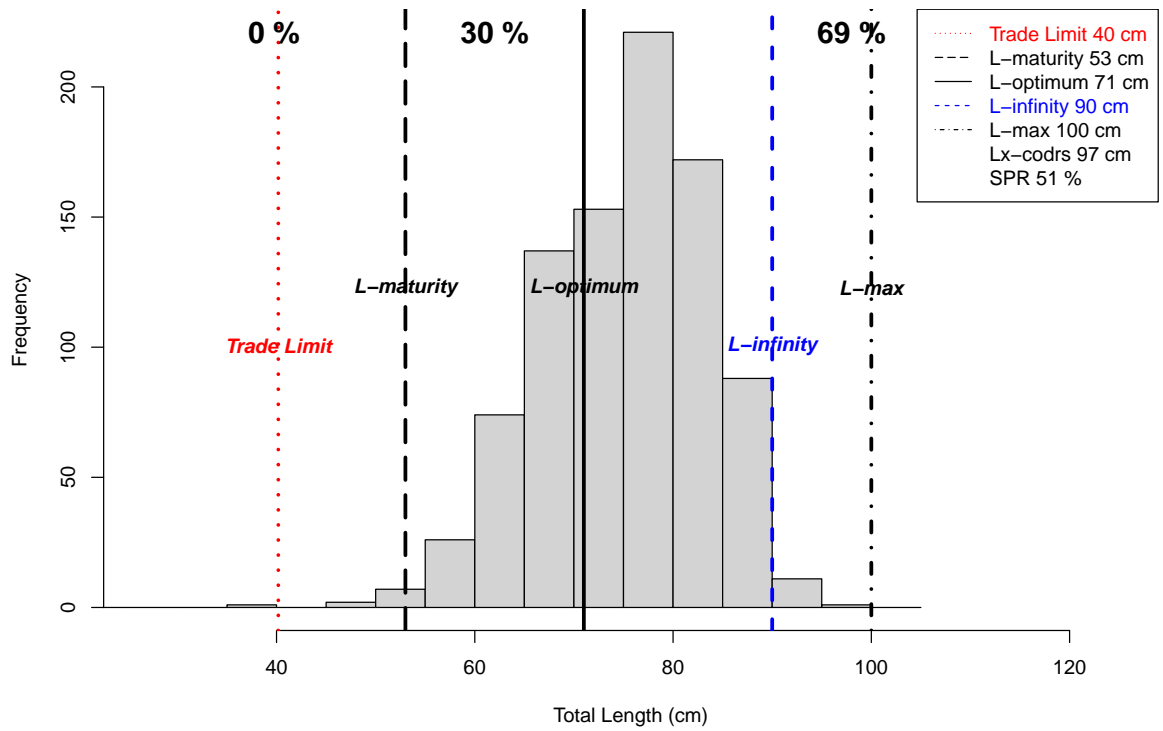
**Dropline – (ID #31) Length frequency of *Symphorus nematophorus* (Lutjanidae), n = 214
 All Years Combined.**



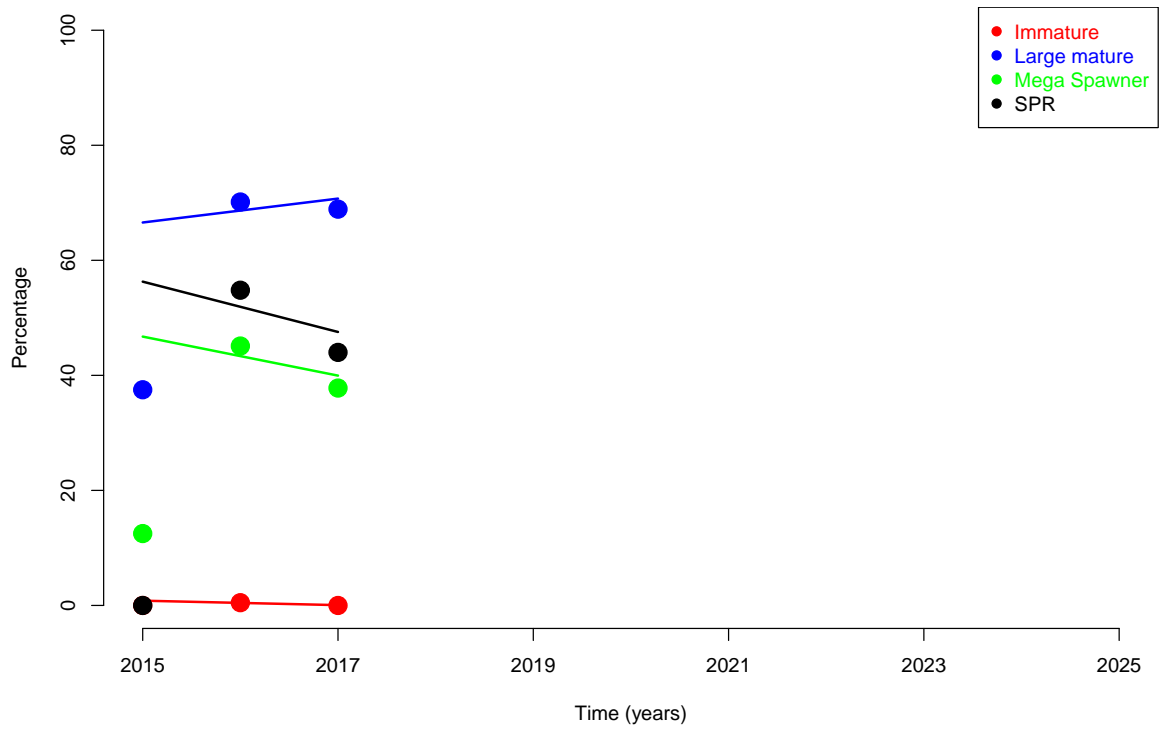
Dropline – Trends by size group for *Symphorus nematophorus* (ID #31, Lutjanidae)



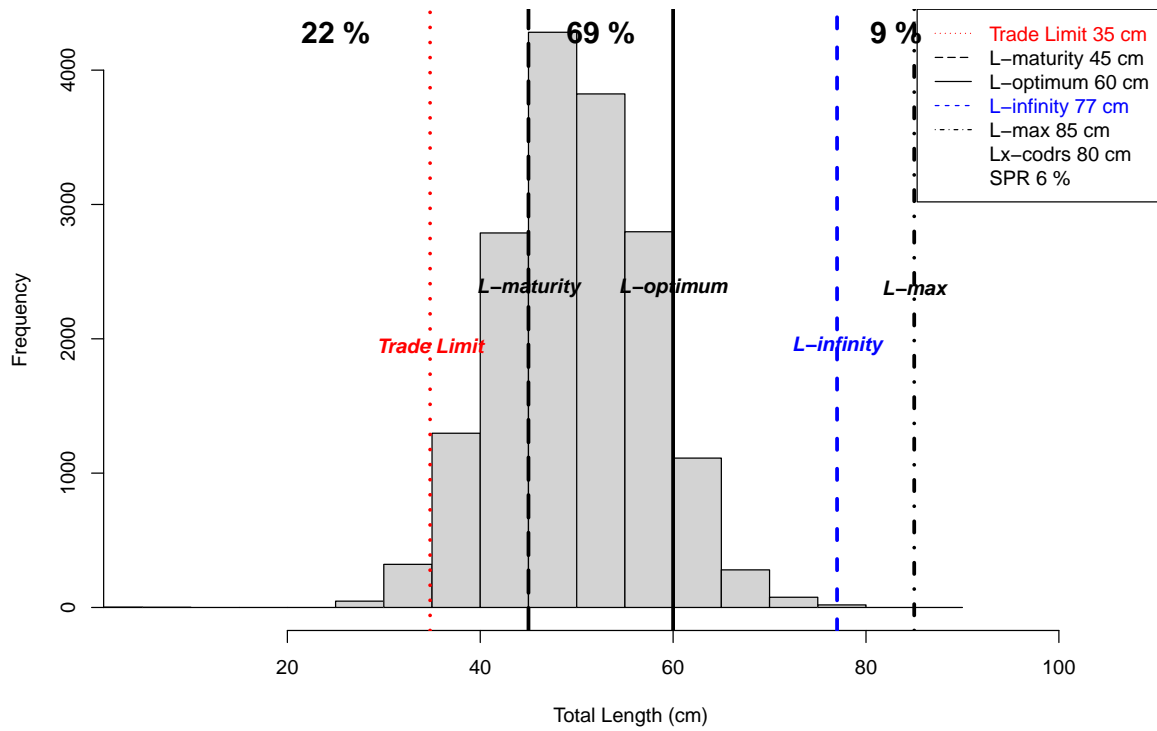
Longline – (ID #31) Length frequency of *Symphorus nematophorus* (Lutjanidae), n = 893
 All Years Combined.



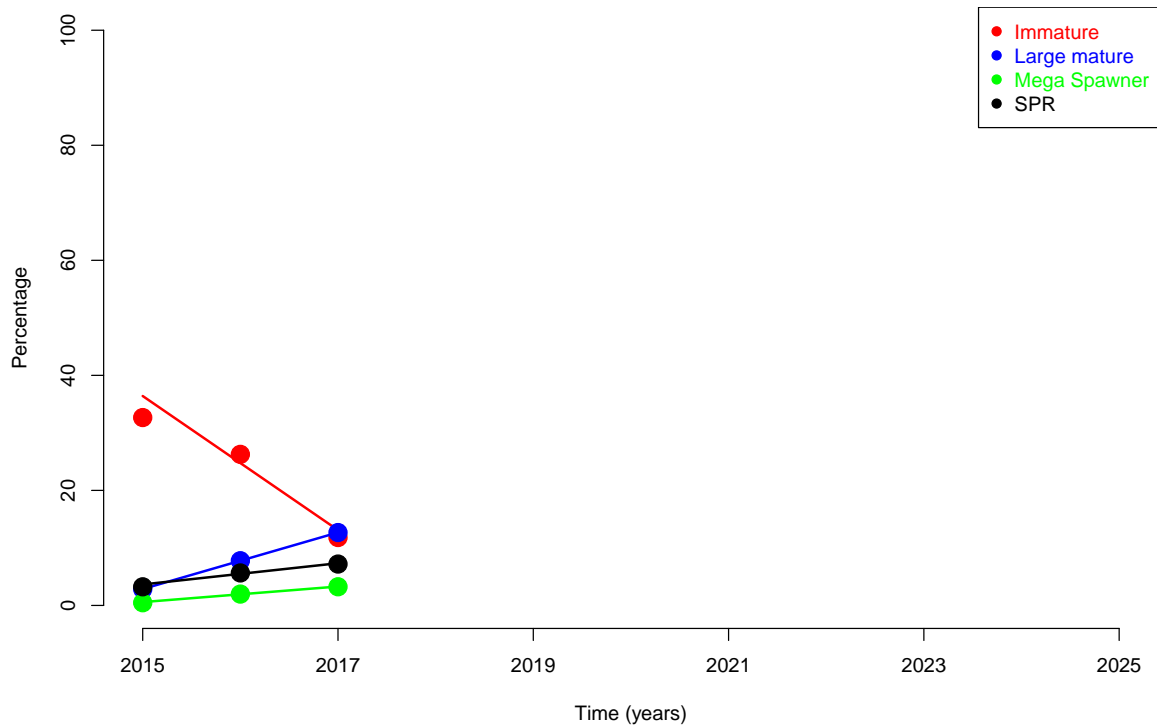
Longline – Trends by size group for *Symphorus nematophorus* (ID #31, Lutjanidae)



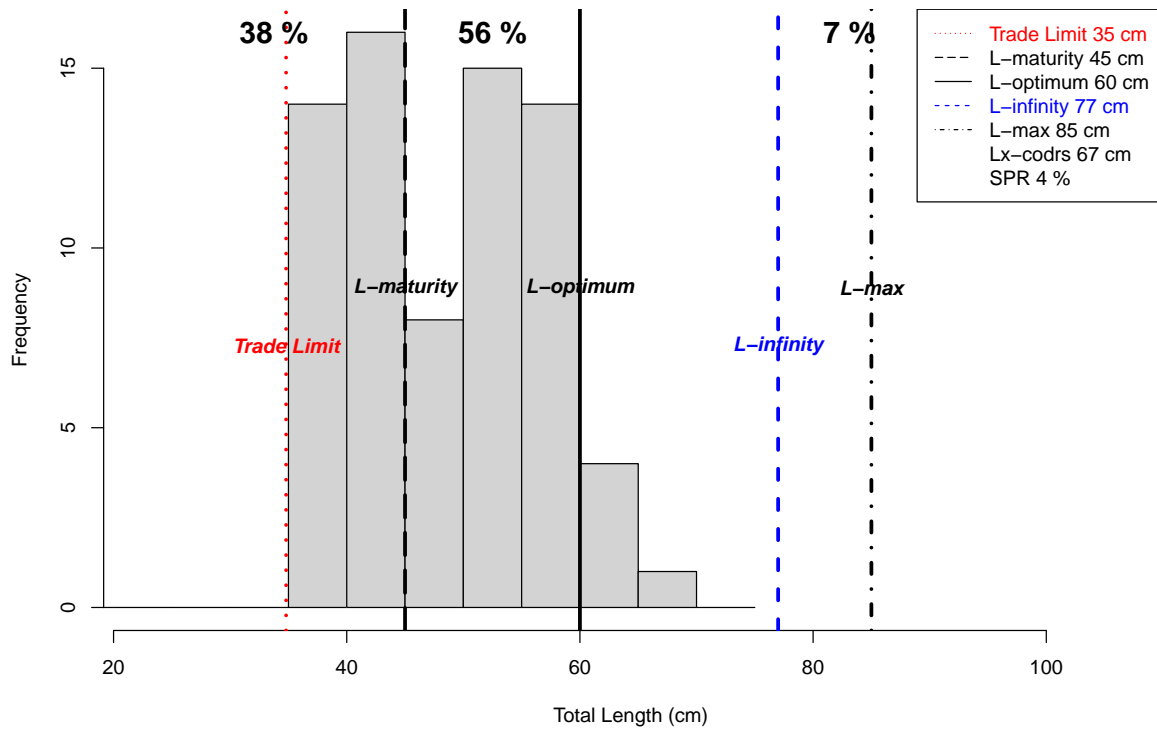
**Dropline – (ID #34) Length frequency of *Paracaesio kusakarii* (Lutjanidae), n = 16,845
 All Years Combined.**



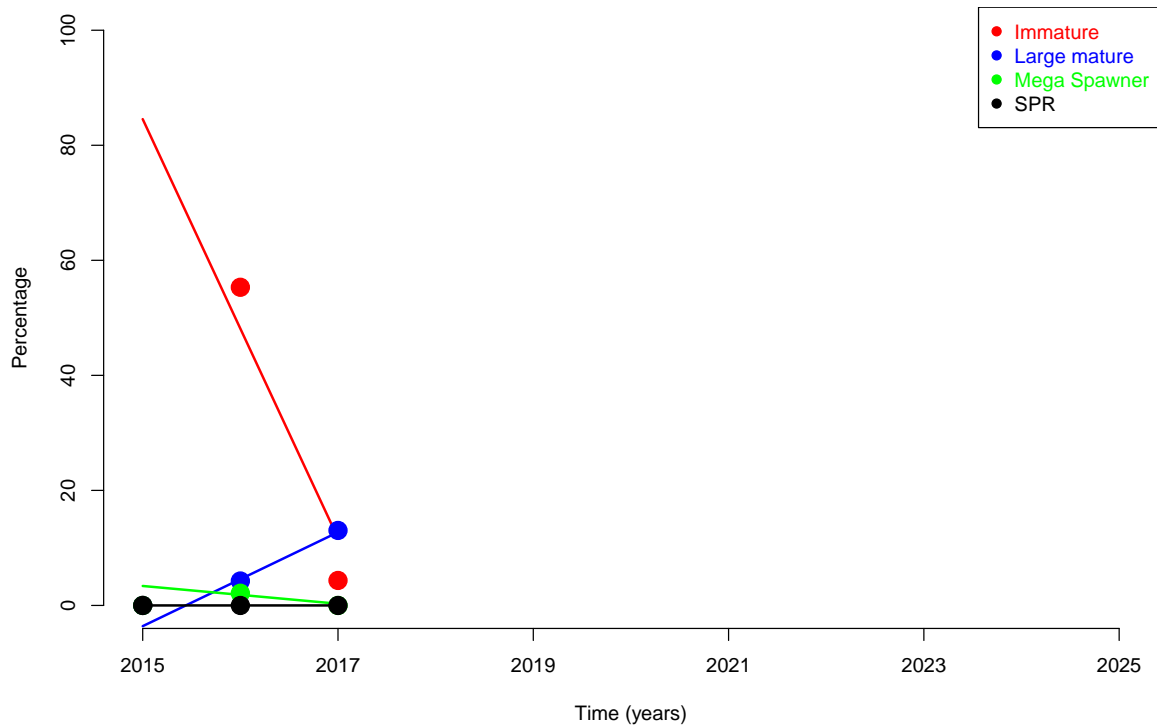
Dropline – Trends by size group for *Paracaesio kusakarii* (ID #34, Lutjanidae)



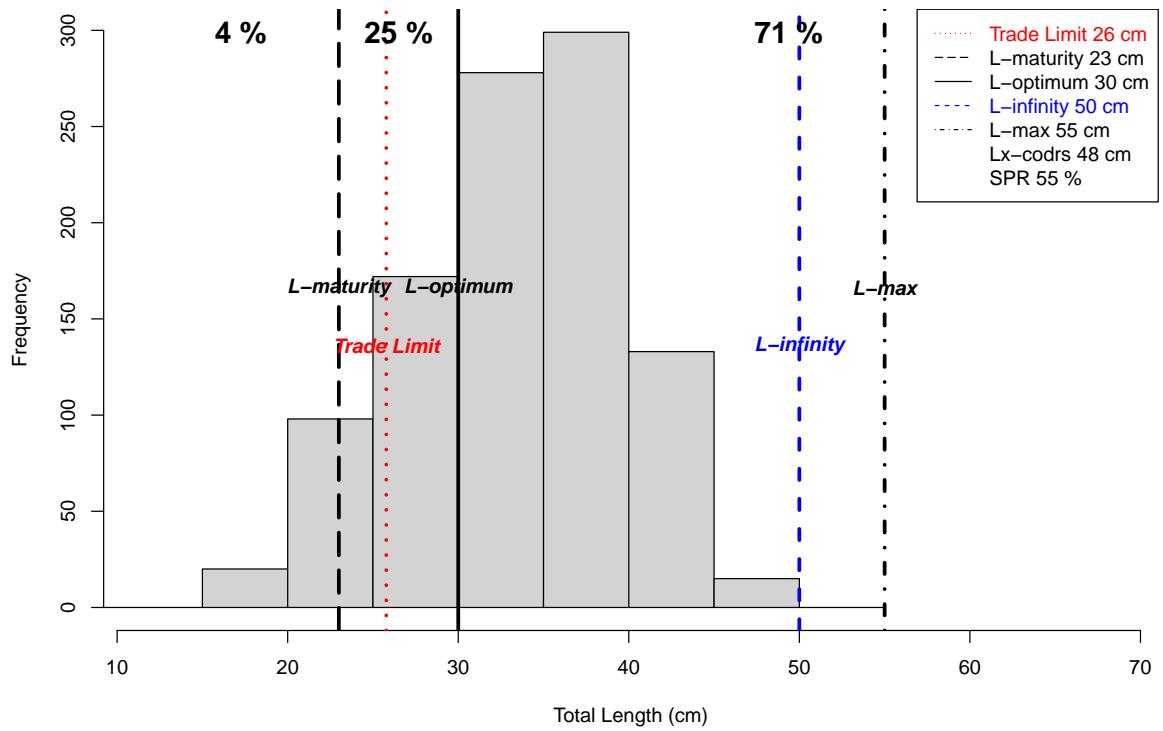
Longline – (ID #34) Length frequency of *Paracaesio kusakarii* (Lutjanidae), n = 72
 All Years Combined.



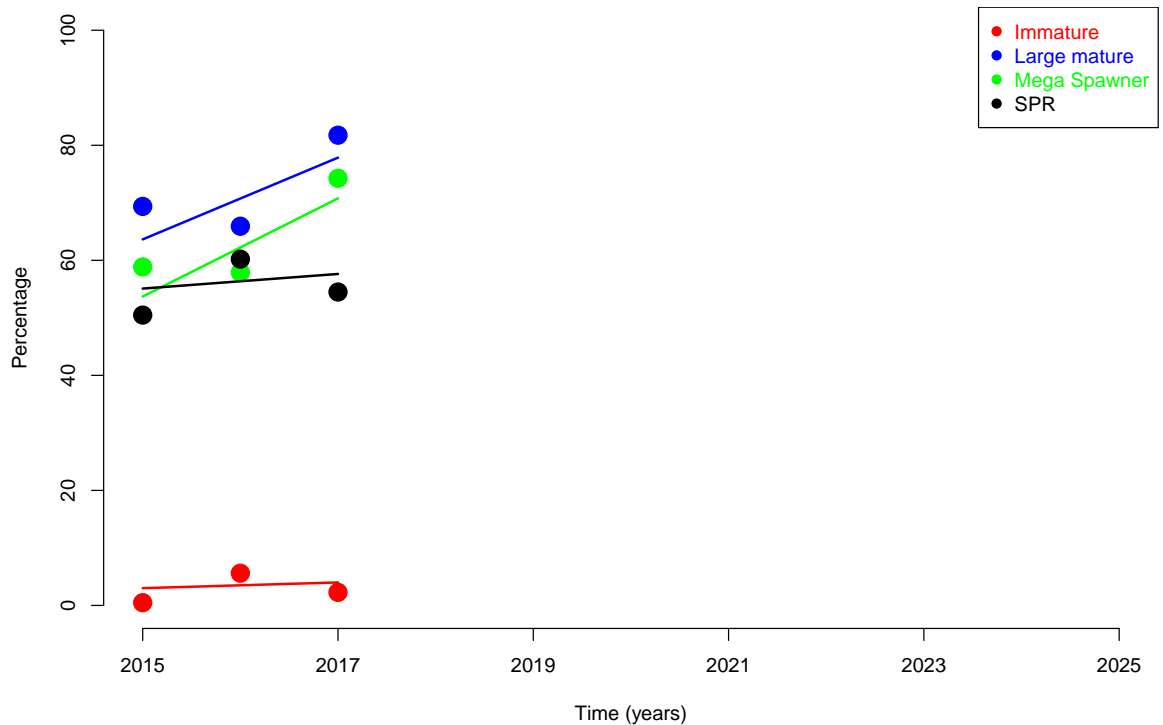
Longline – Trends by size group for *Paracaesio kusakarii* (ID #34, Lutjanidae)



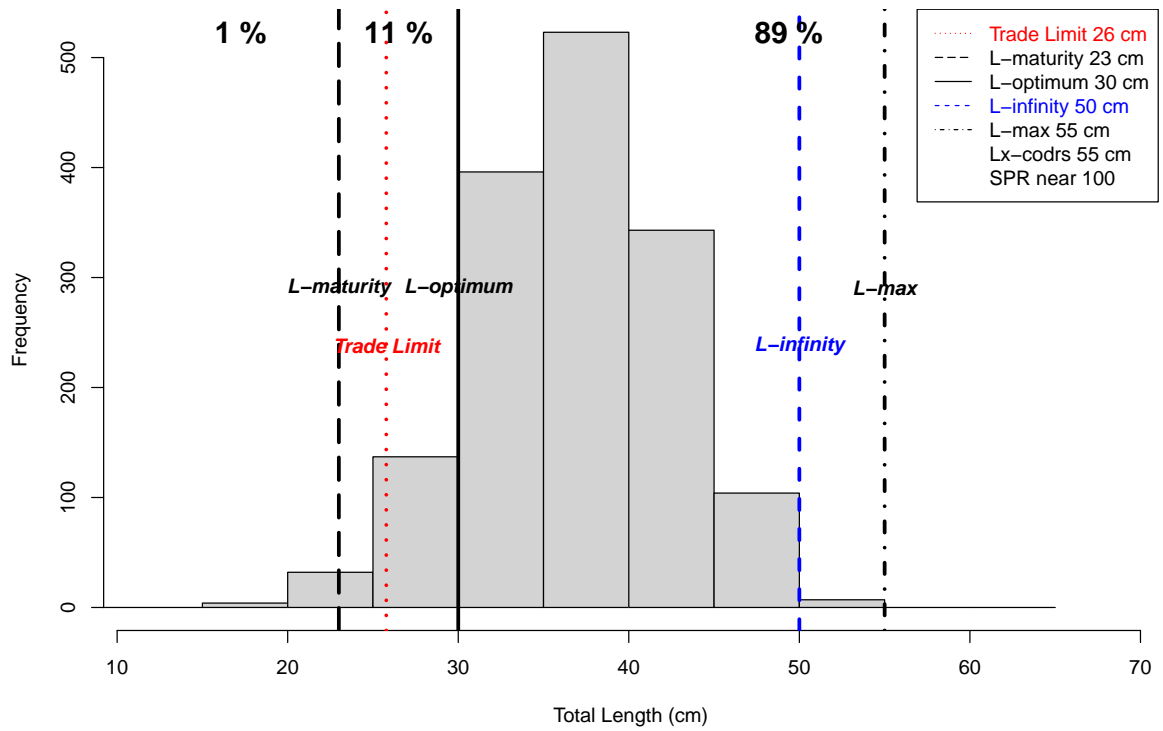
**Dropline – (ID #39) Length frequency of *Cephalopholis sonnerati* (Epinephelidae), n = 1,015
 All Years Combined.**



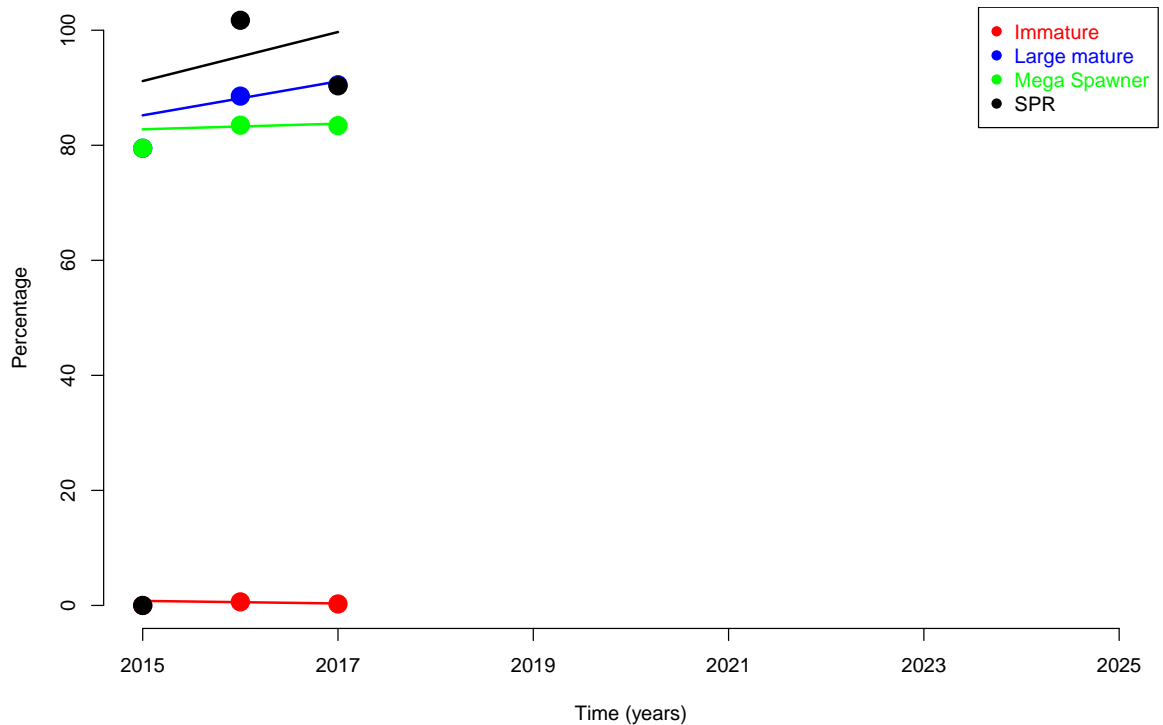
Dropline – Trends by size group for *Cephalopholis sonnerati* (ID #39, Epinephelidae)



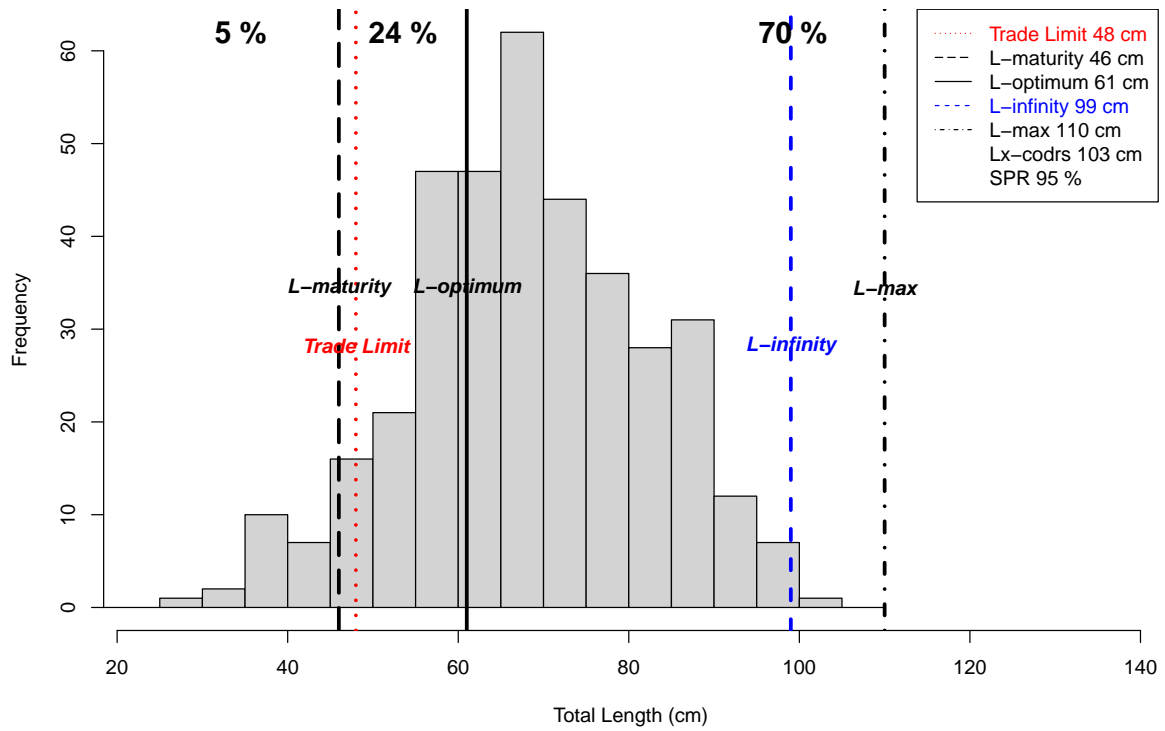
Longline – (ID #39) Length frequency of *Cephalopholis sonnerati* (Epinephelidae), n = 1,546
 All Years Combined.



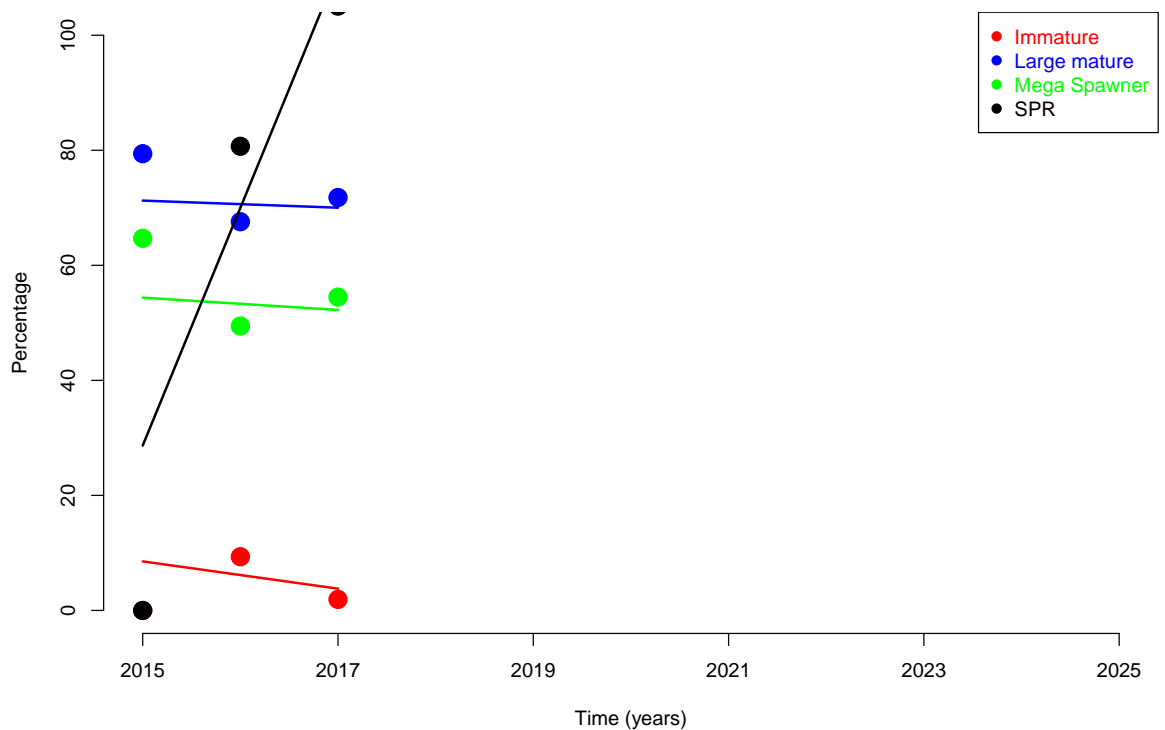
Longline – Trends by size group for *Cephalopholis sonnerati* (ID #39, Epinephelidae)



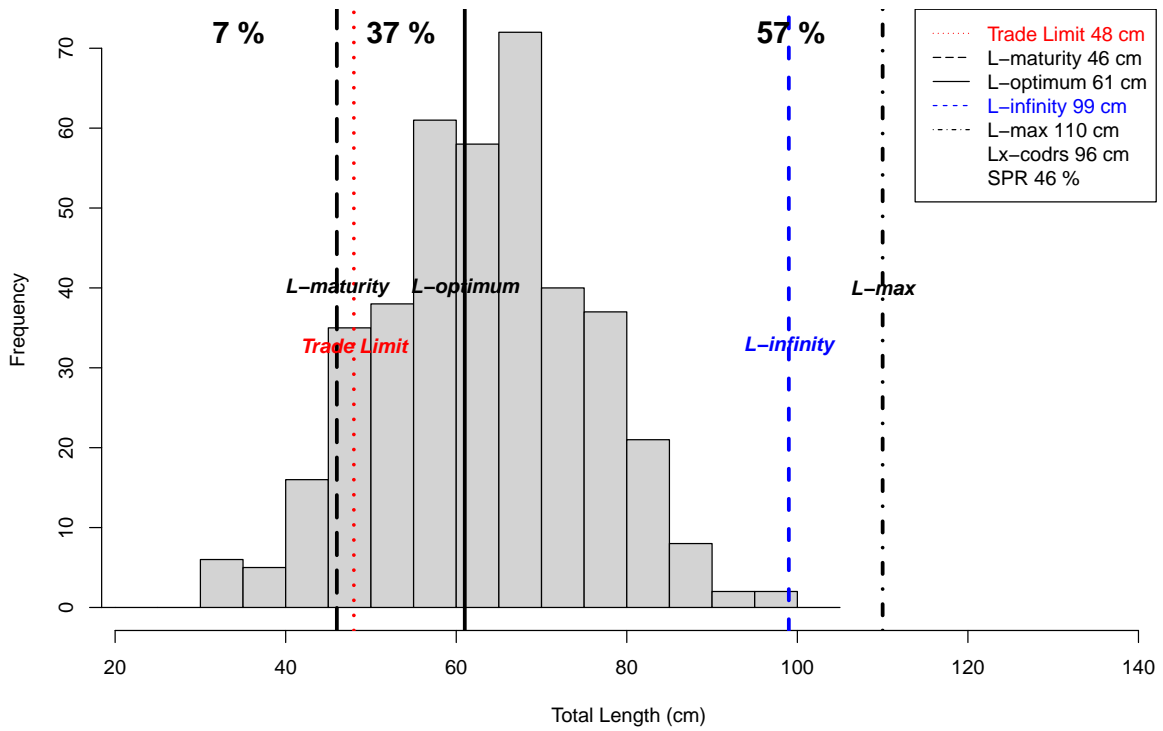
**Dropline – (ID #41) Length frequency of *Epinephelus latifasciatus* (Epinephelidae), n = 372
 All Years Combined.**



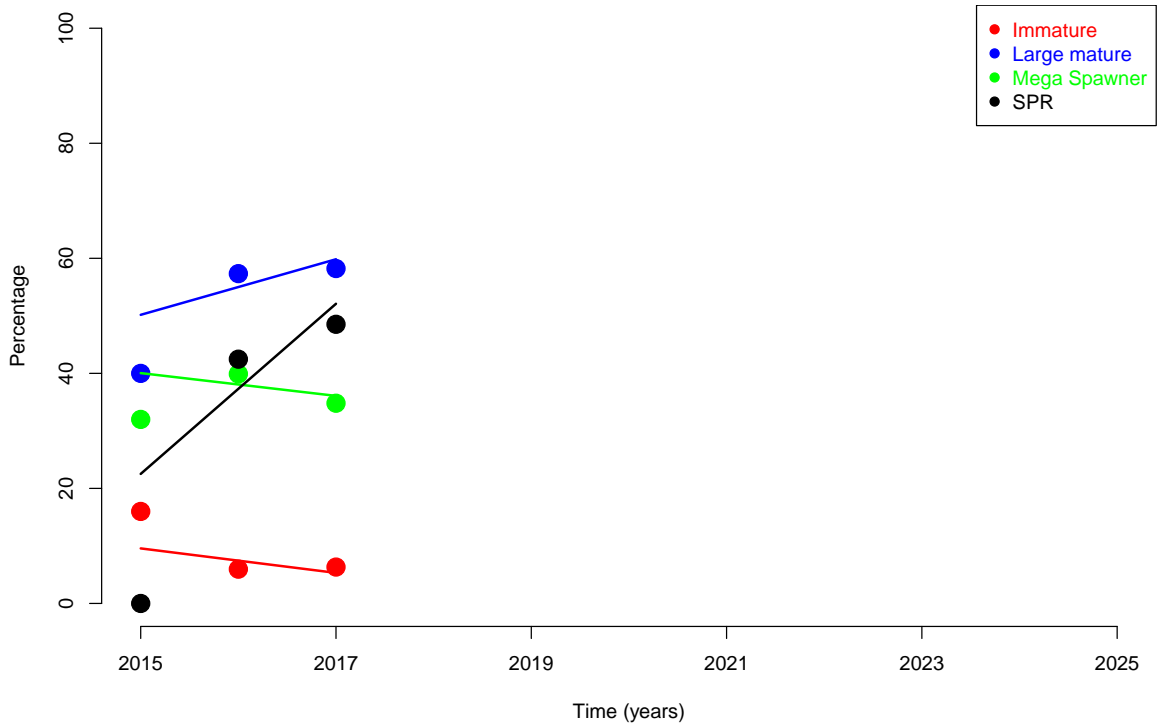
Dropline – Trends by size group for *Epinephelus latifasciatus* (ID #41, Epinephelidae)



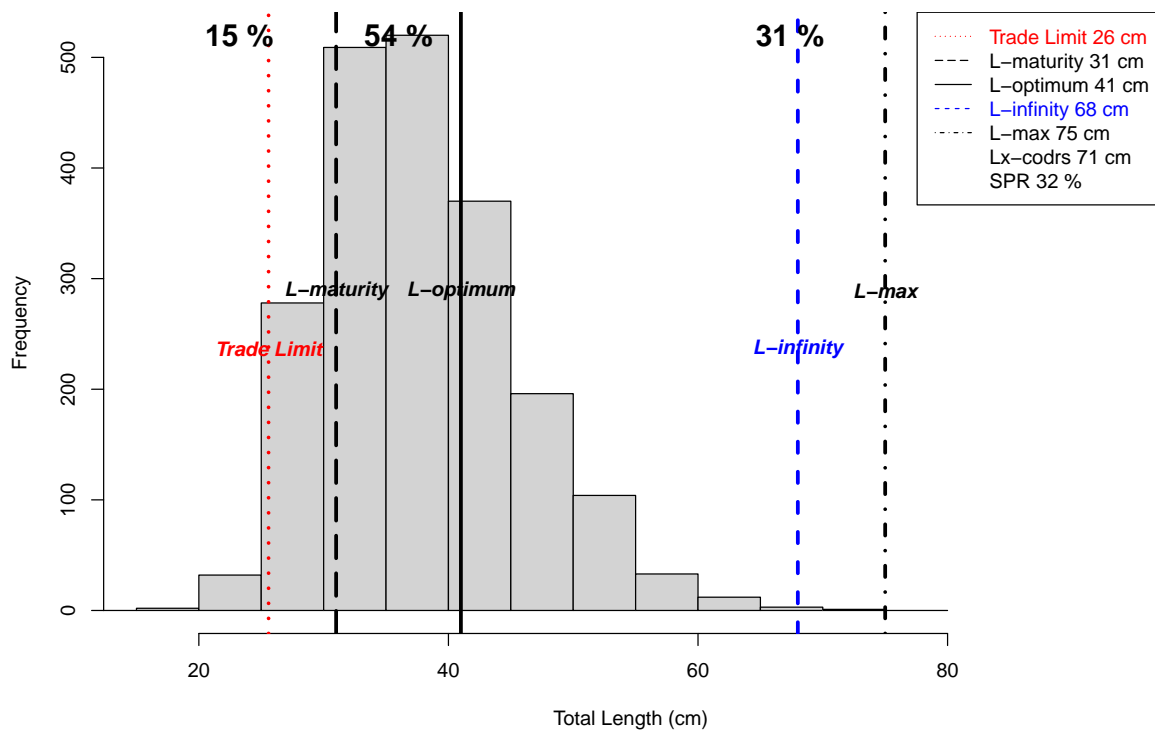
**Longline – (ID #41) Length frequency of *Epinephelus latifasciatus* (Epinephelidae), n = 401
 All Years Combined.**



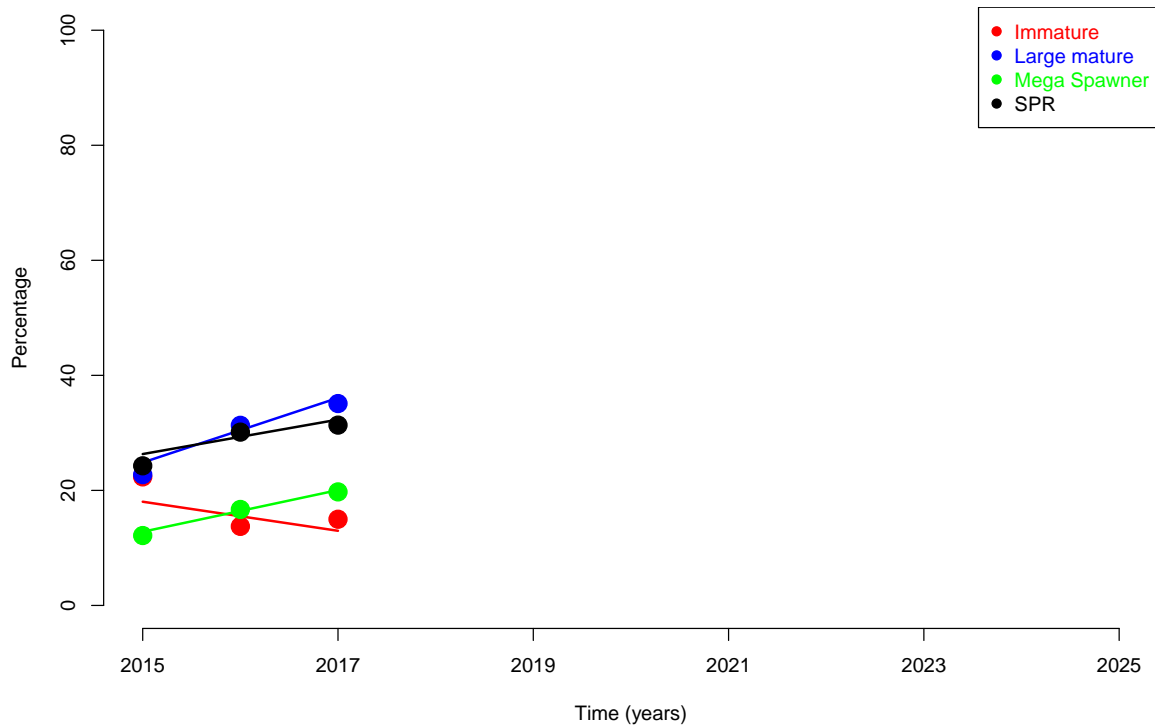
Longline – Trends by size group for *Epinephelus latifasciatus* (ID #41, Epinephelidae)



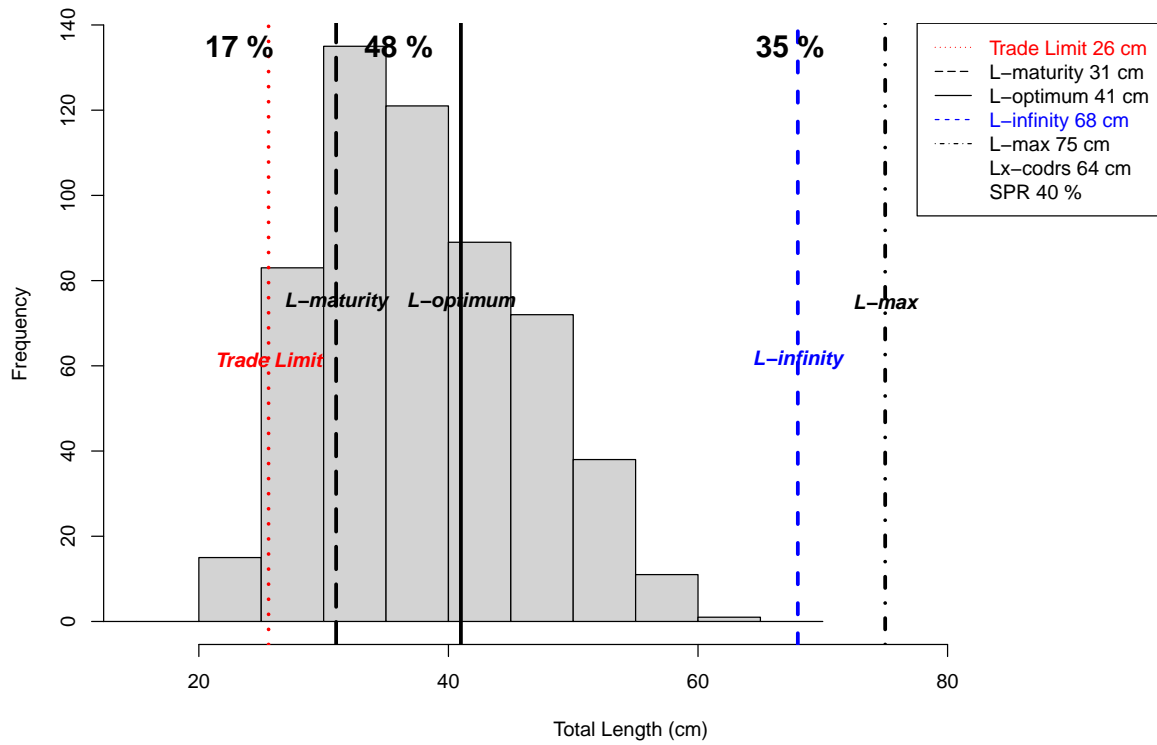
**Dropline – (ID #43) Length frequency of *Epinephelus morrhua* (Epinephelidae), n = 2,060
 All Years Combined.**



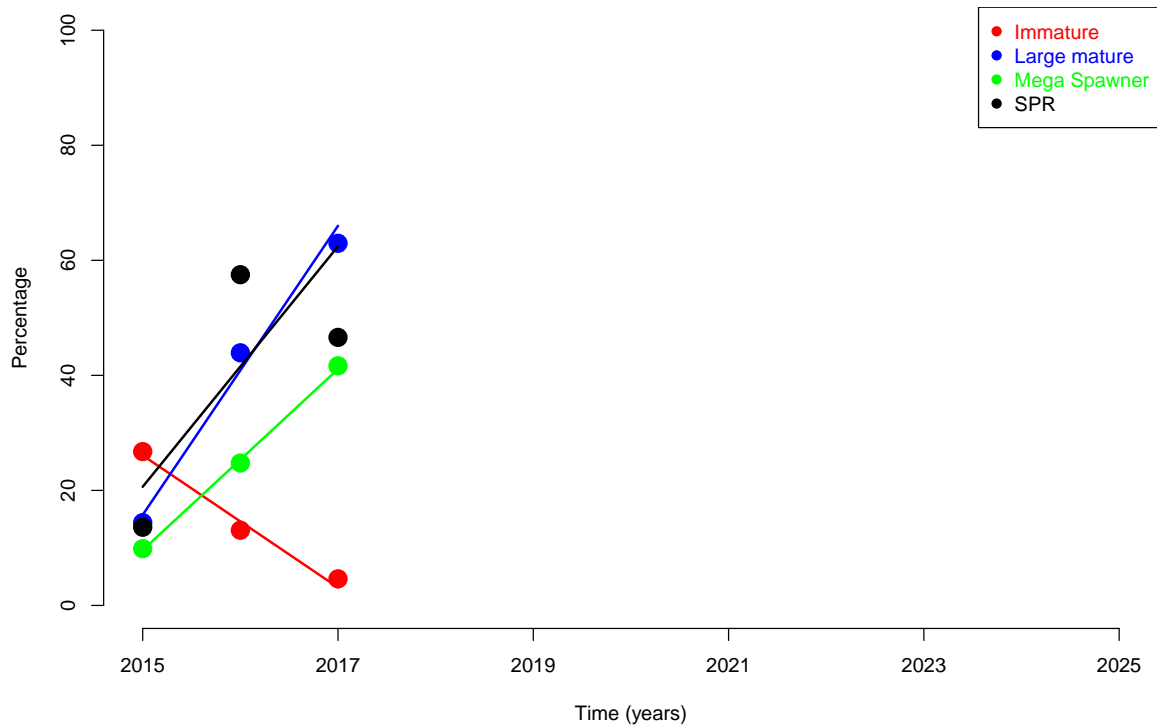
Dropline – Trends by size group for *Epinephelus morrhua* (ID #43, Epinephelidae)



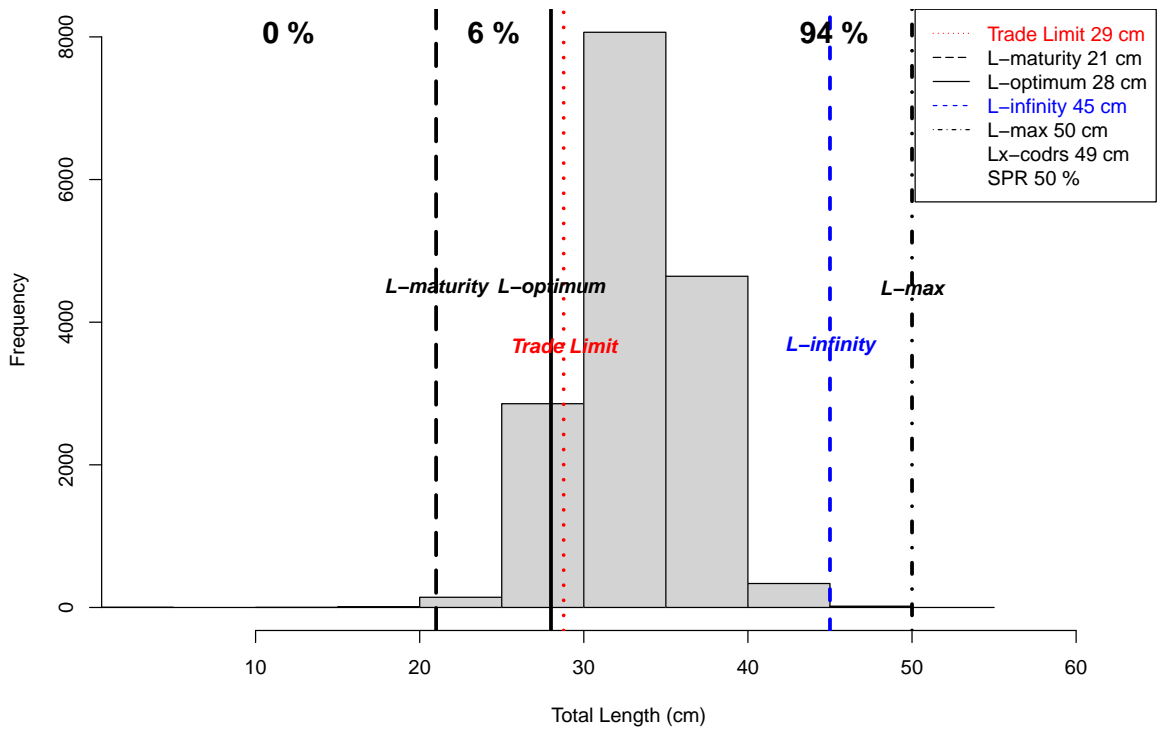
Longline – (ID #43) Length frequency of *Epinephelus morrhua* (Epinephelidae), n = 565
 All Years Combined.



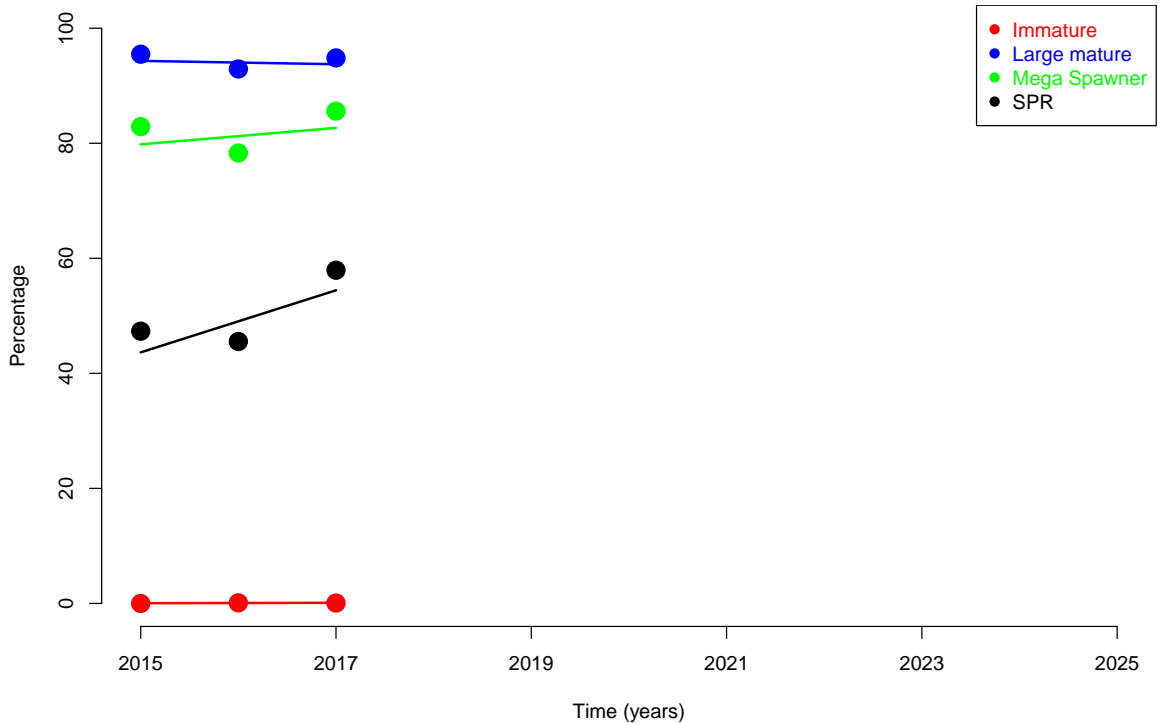
Longline – Trends by size group for *Epinephelus morrhua* (ID #43, Epinephelidae)



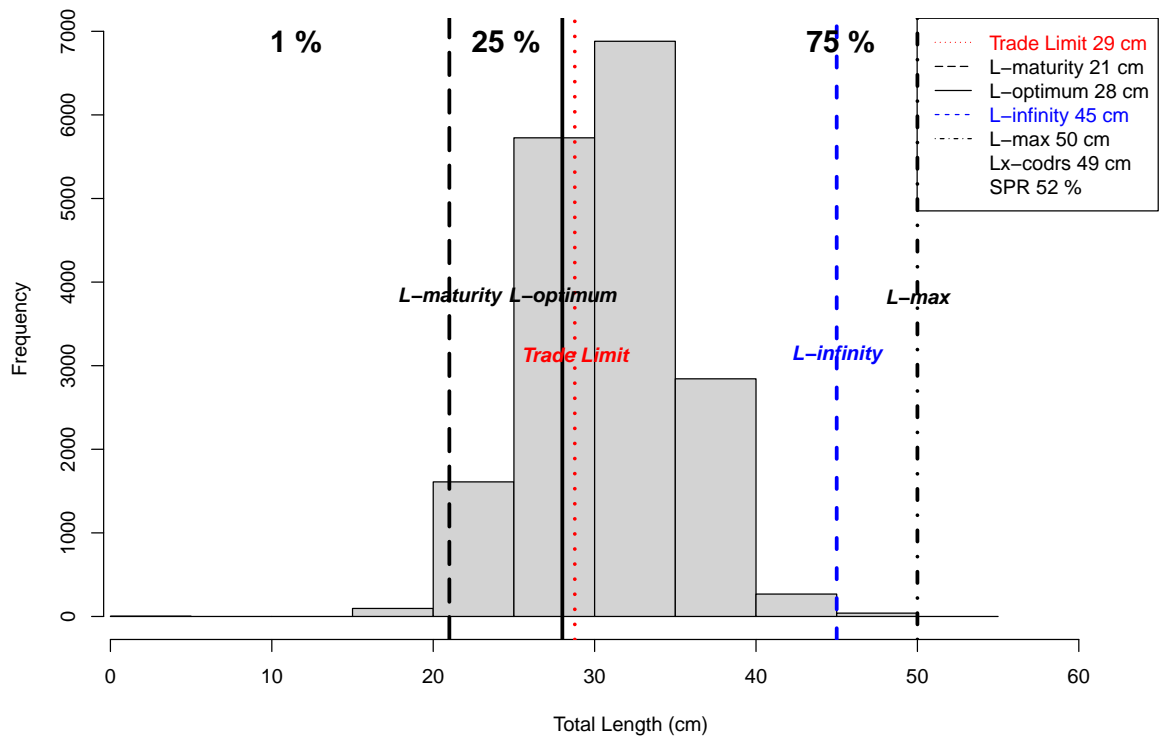
**Dropline – (ID #45) Length frequency of *Epinephelus areolatus* (Epinephelidae), n = 16,075
 All Years Combined.**



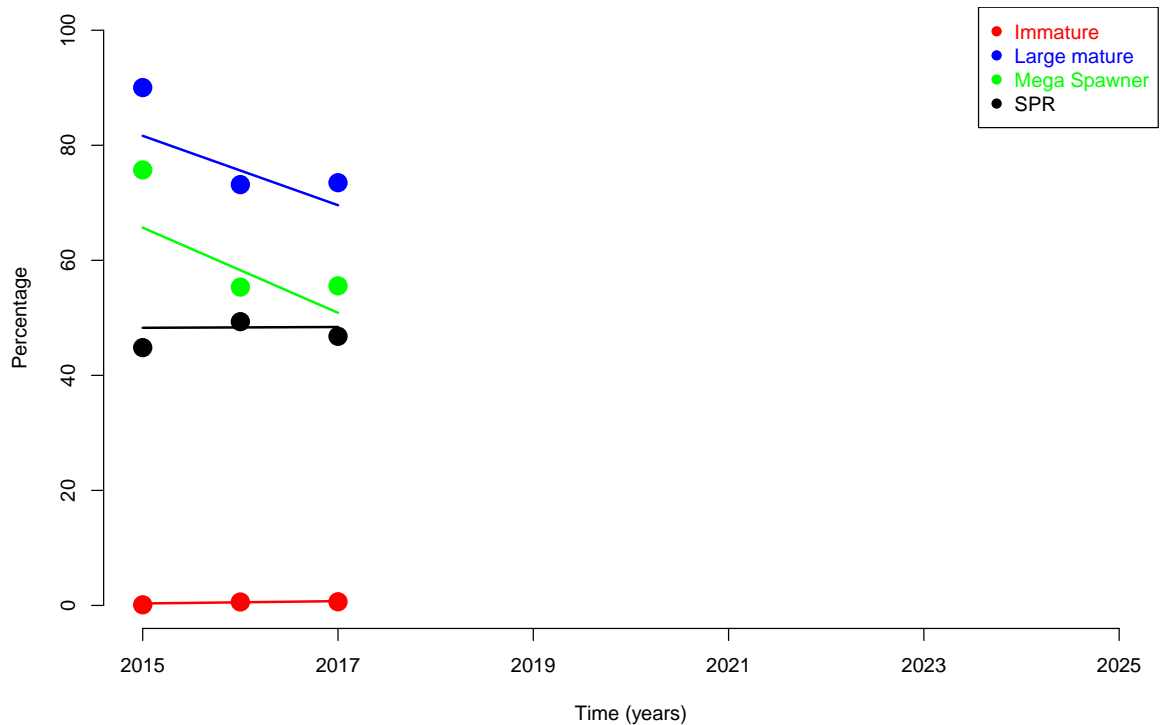
Dropline – Trends by size group for *Epinephelus areolatus* (ID #45, Epinephelidae)



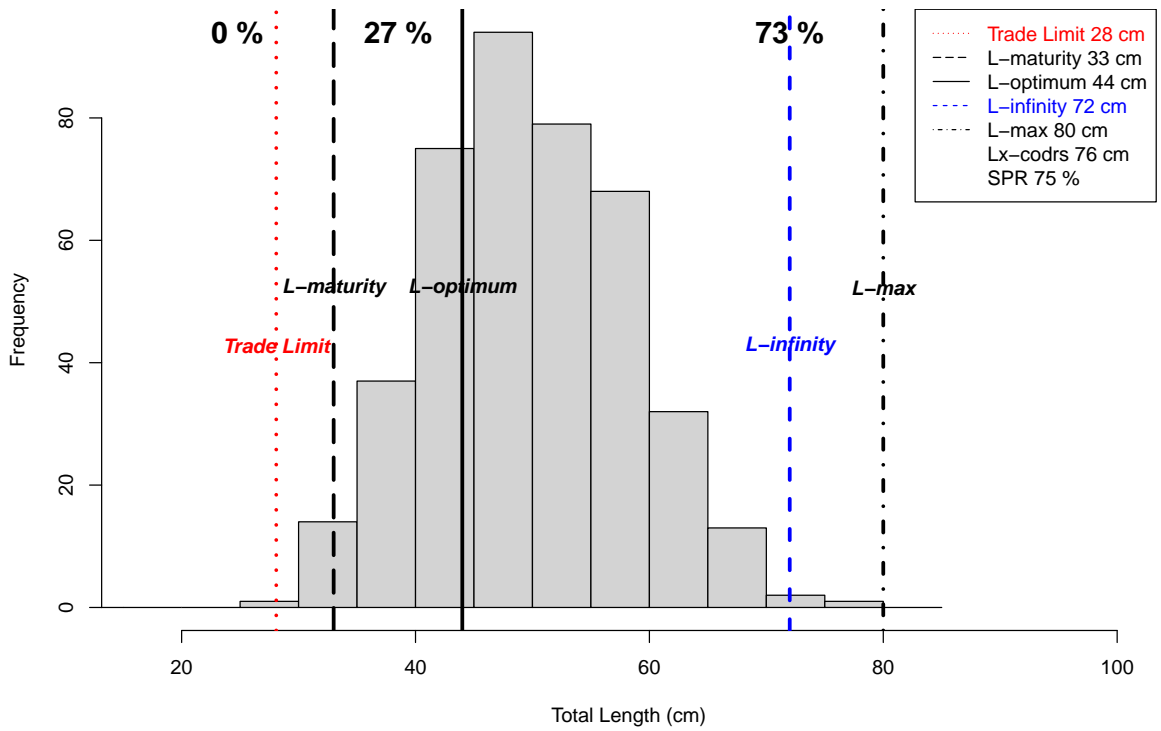
Longline – (ID #45) Length frequency of *Epinephelus areolatus* (Epinephelidae), n = 17,467
 All Years Combined.



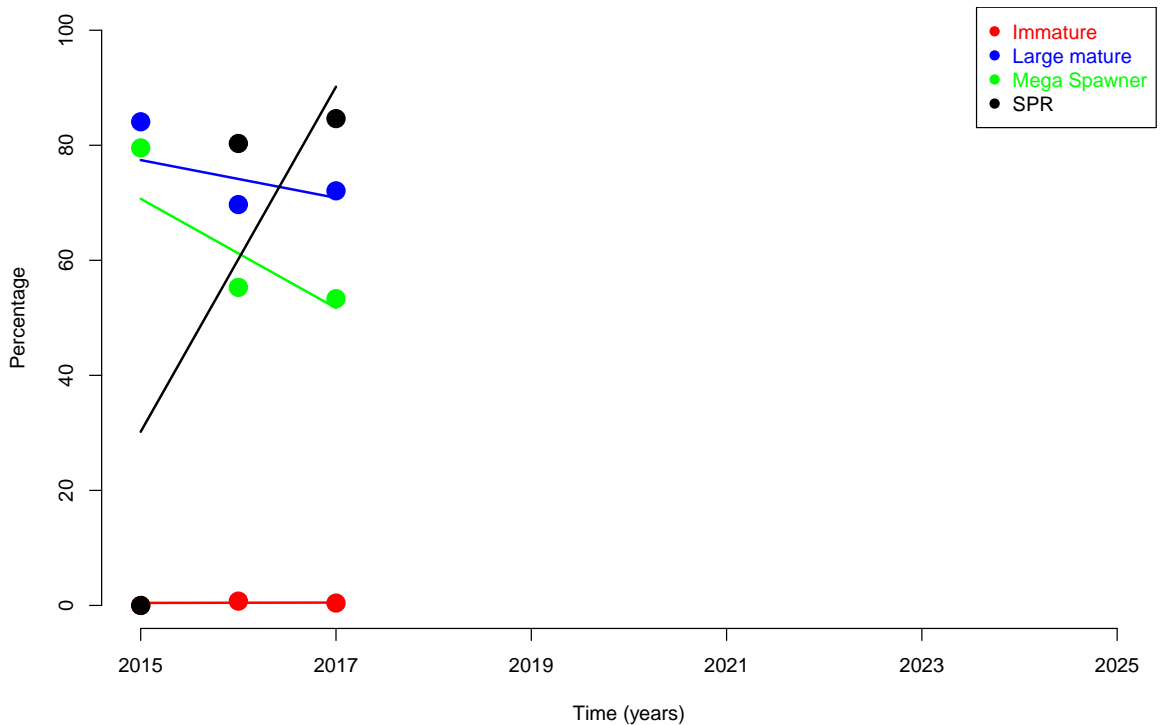
Longline – Trends by size group for *Epinephelus areolatus* (ID #45, Epinephelidae)

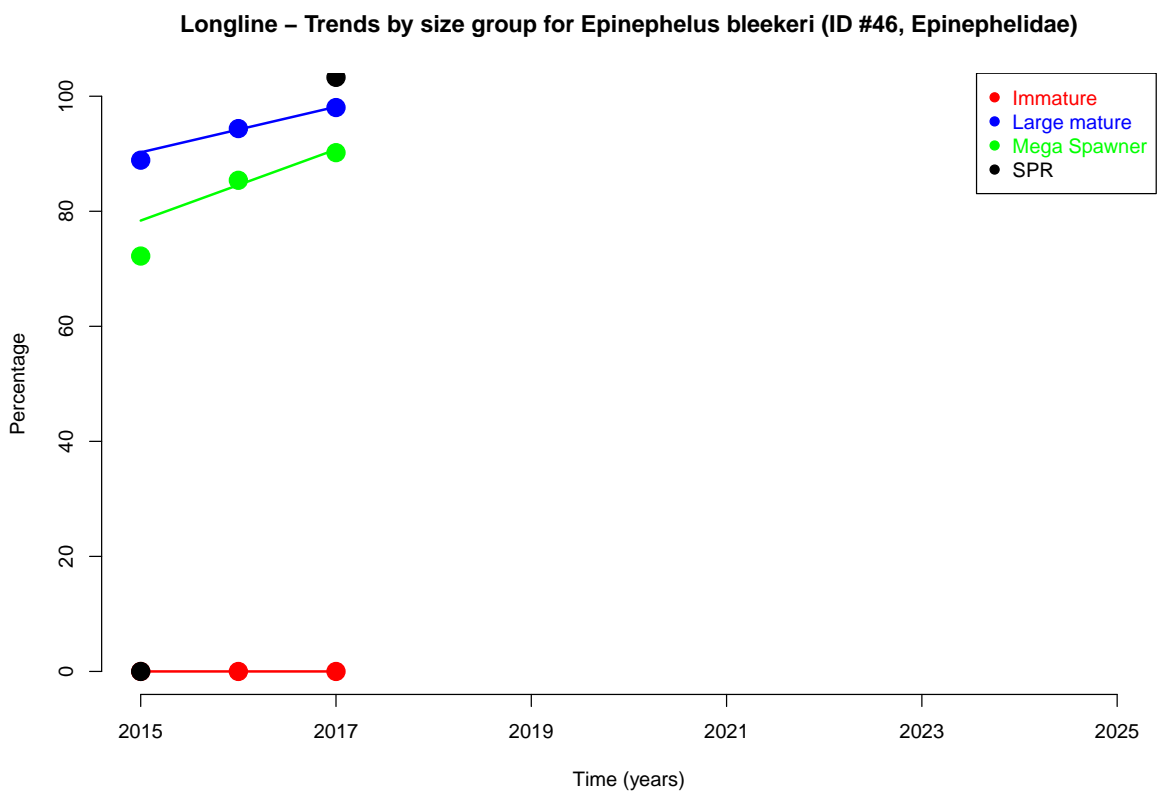
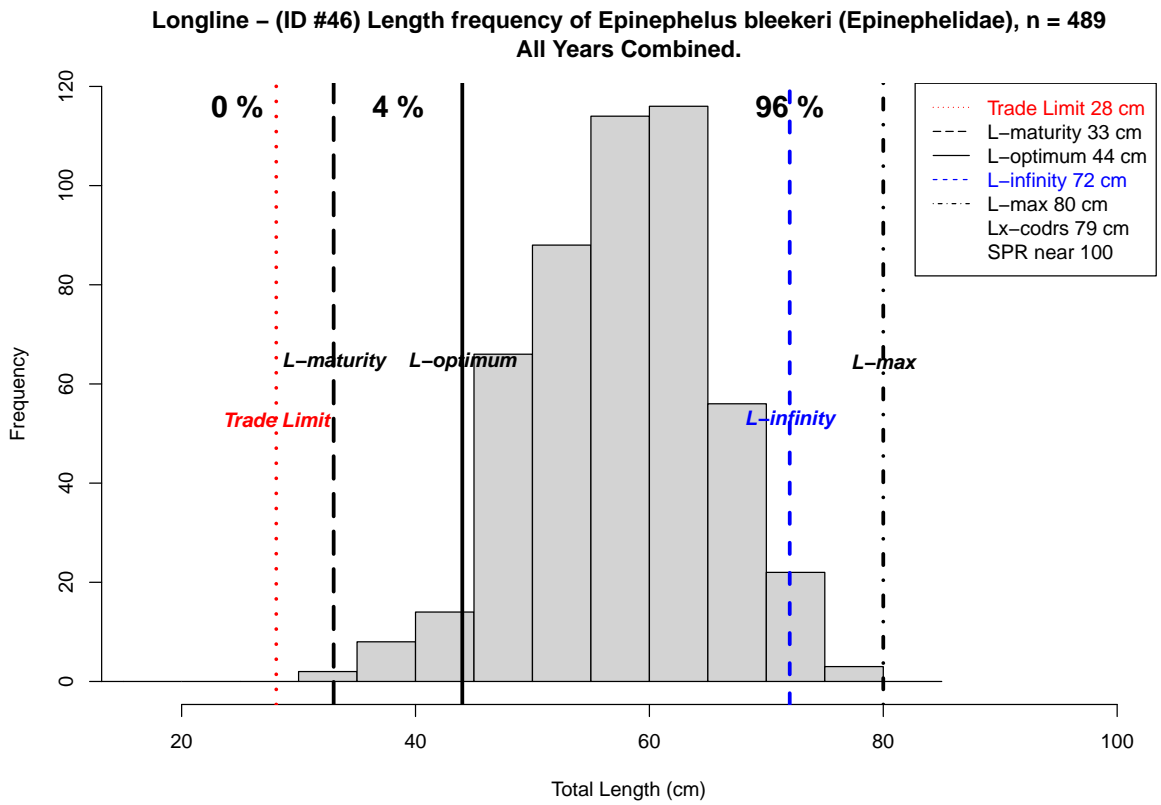


**Dropline – (ID #46) Length frequency of *Epinephelus bleekeri* (Epinephelidae), n = 416
 All Years Combined.**

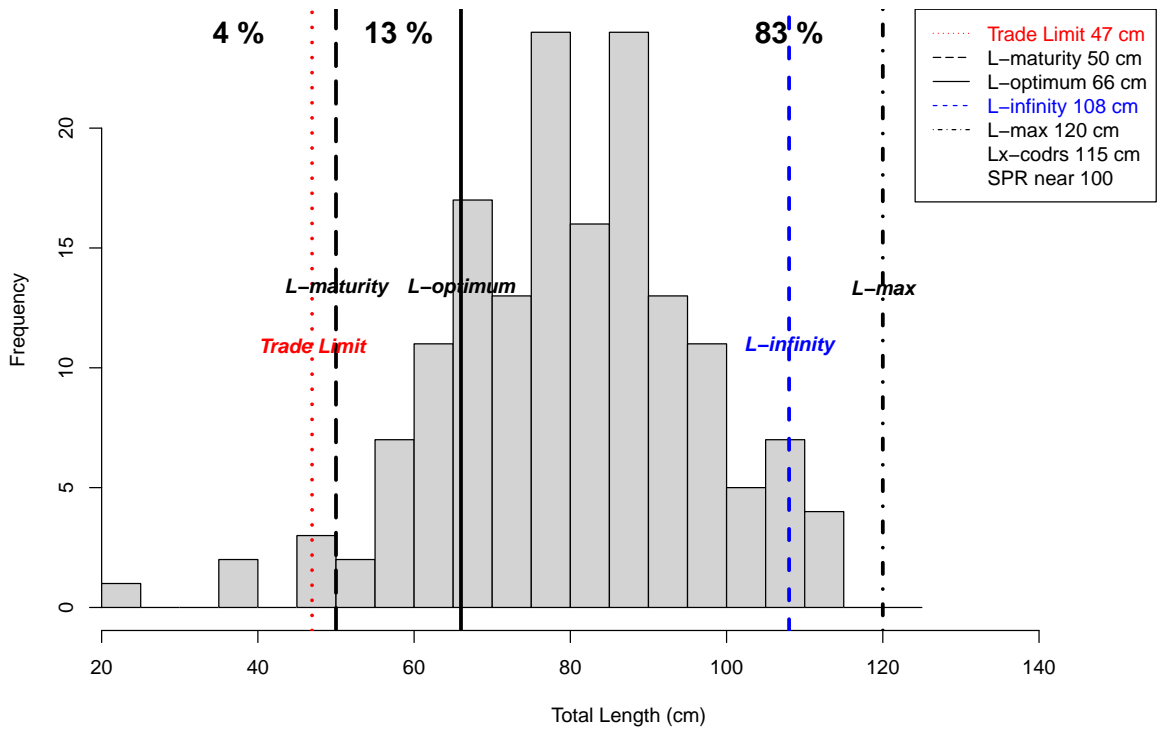


Dropline – Trends by size group for *Epinephelus bleekeri* (ID #46, Epinephelidae)

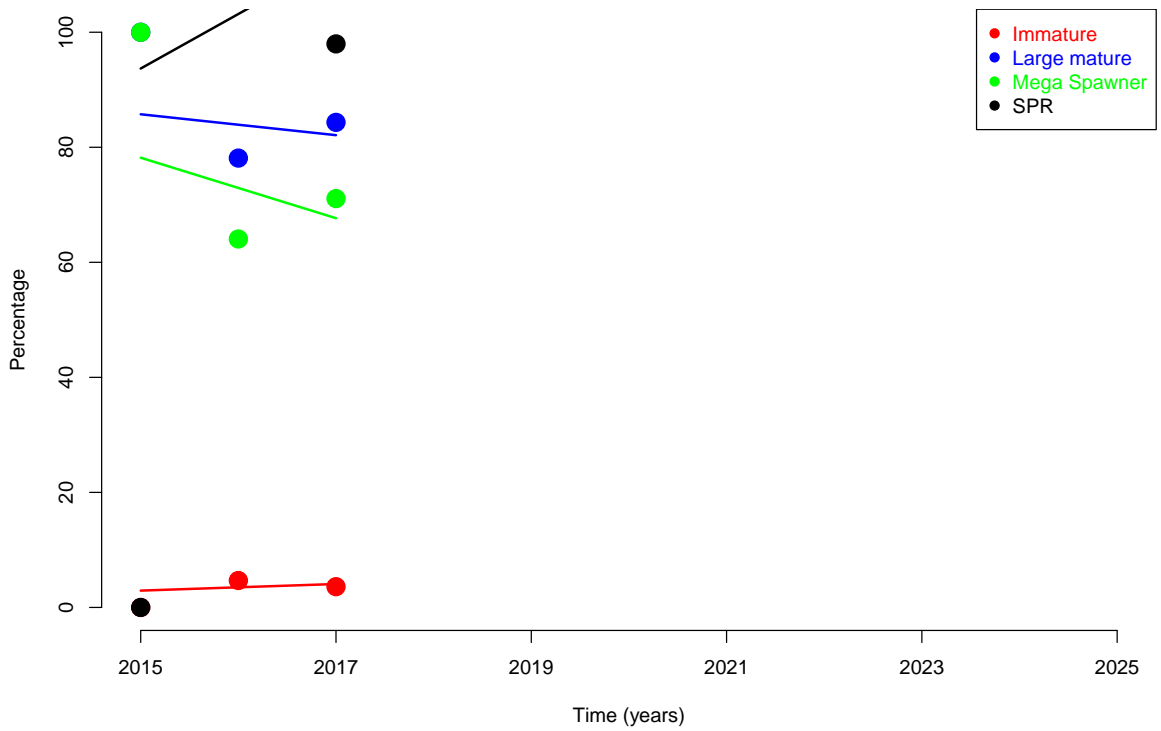




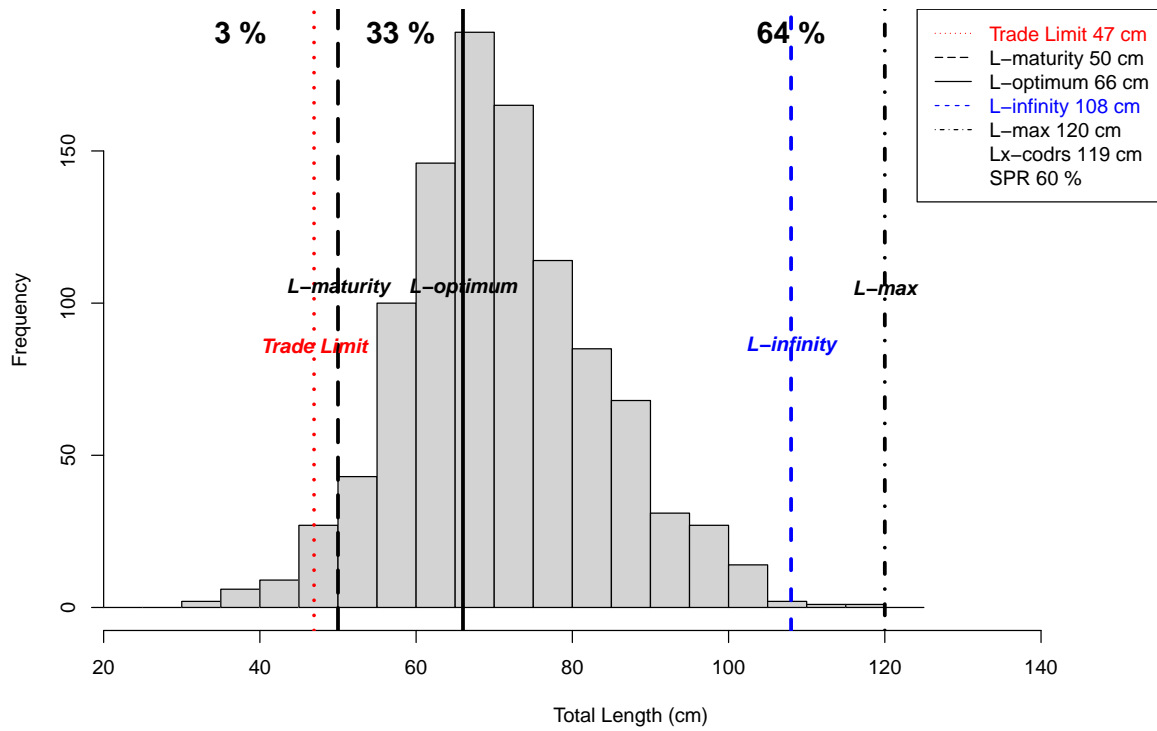
**Dropline – (ID #50) Length frequency of *Epinephelus coioides* (Epinephelidae), n = 160
 All Years Combined.**



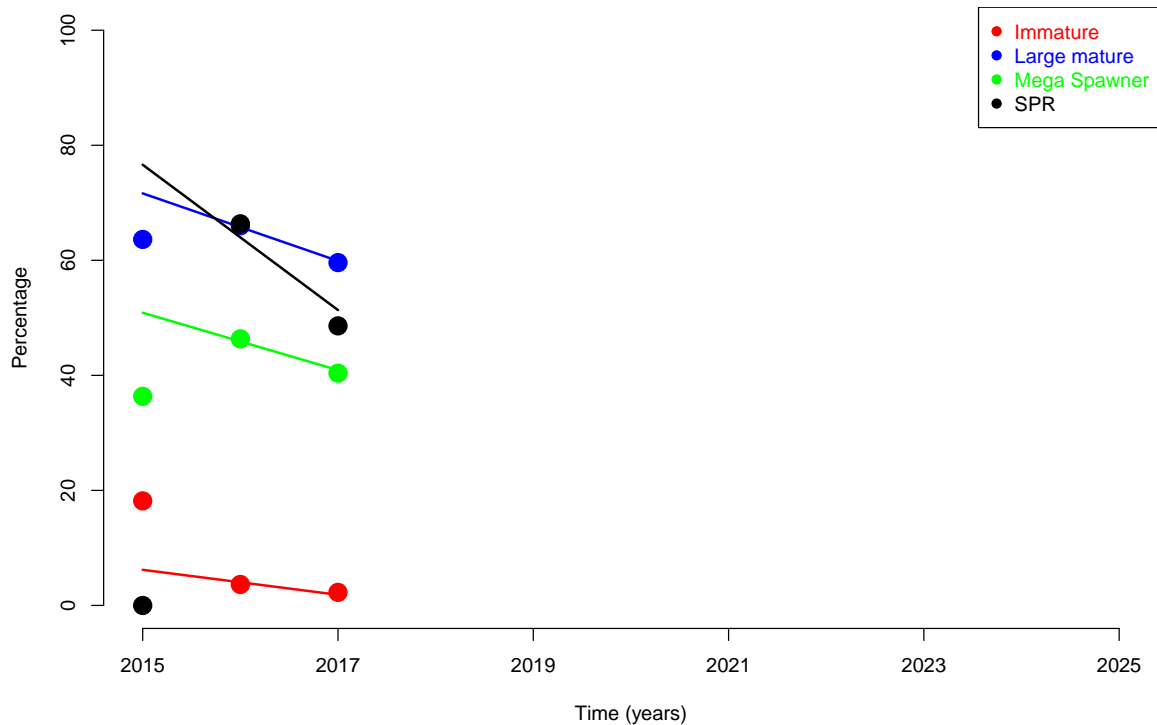
Dropline – Trends by size group for *Epinephelus coioides* (ID #50, Epinephelidae)



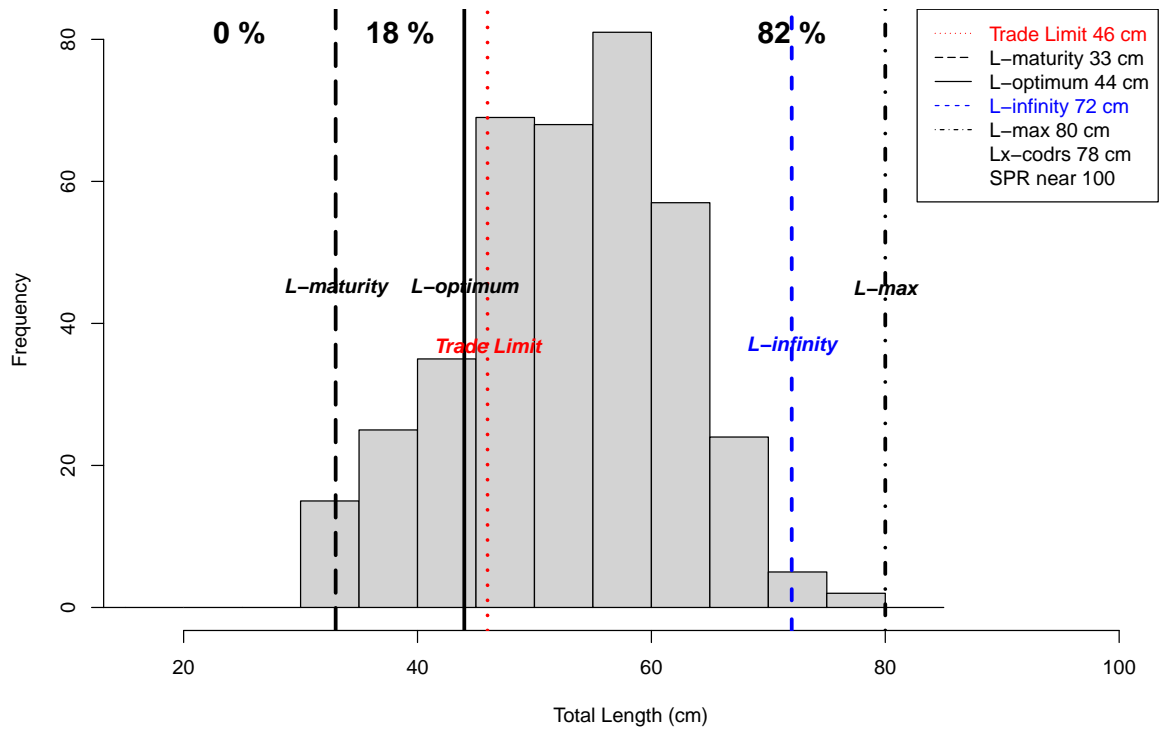
Longline – (ID #50) Length frequency of *Epinephelus coioides* (Epinephelidae), n = 1,030
 All Years Combined.



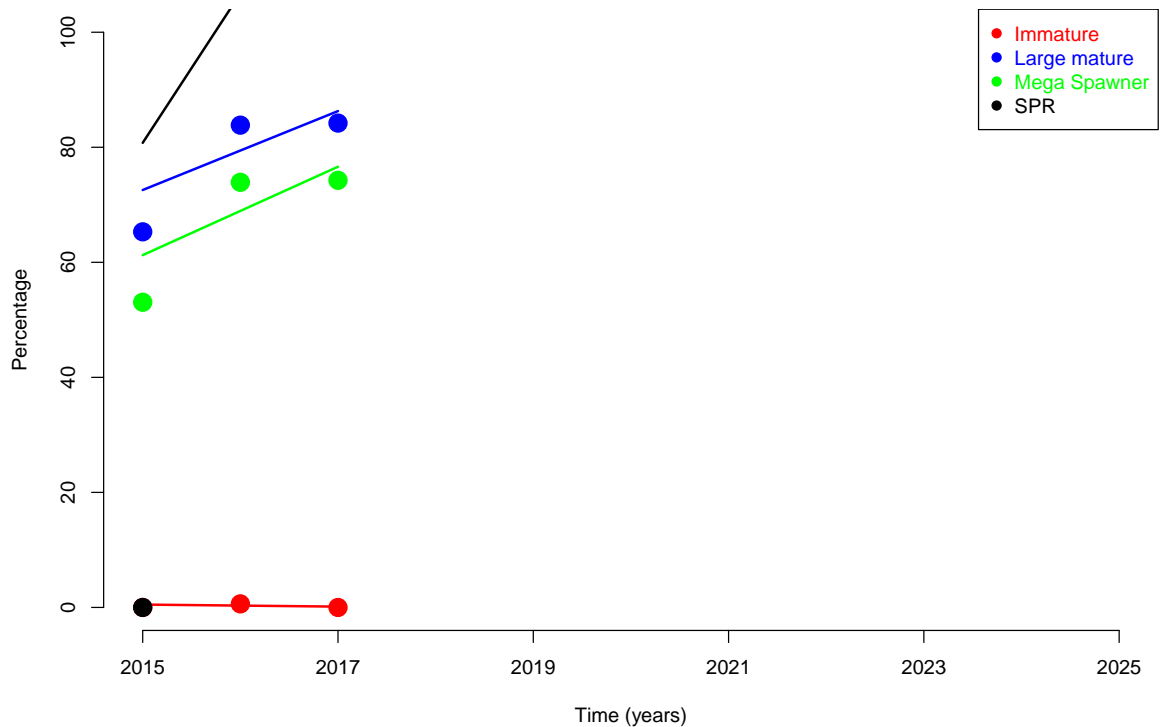
Longline – Trends by size group for *Epinephelus coioides* (ID #50, Epinephelidae)



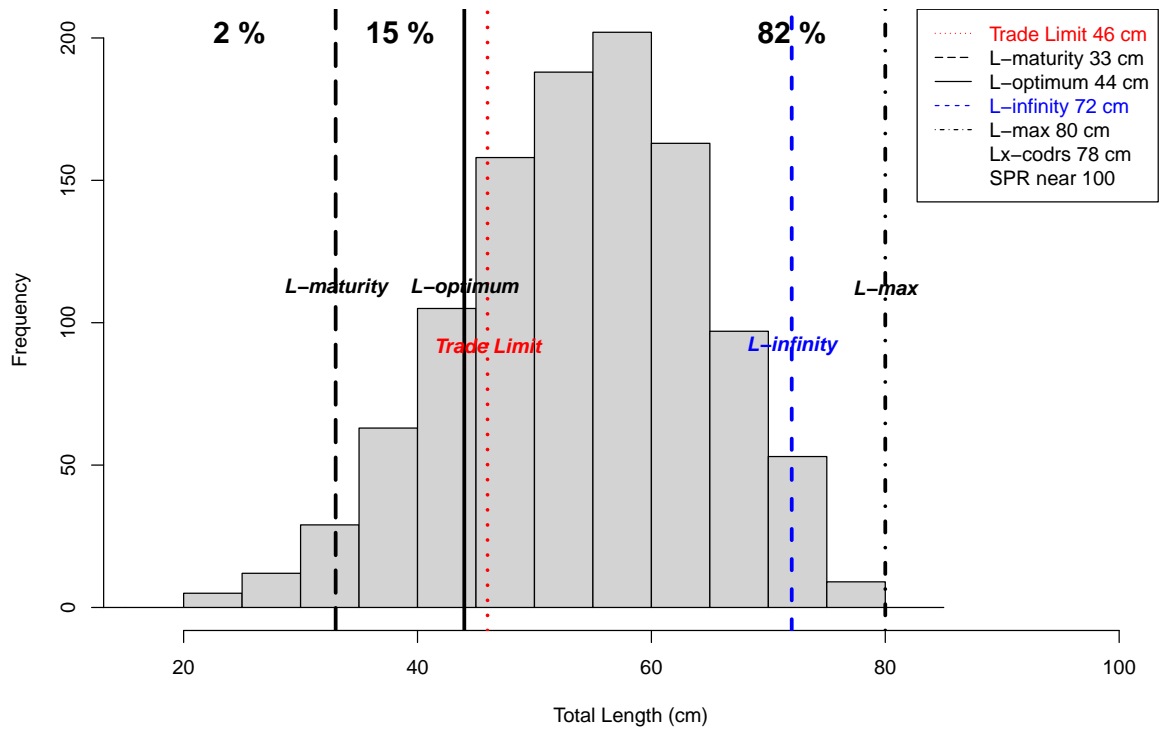
**Dropline – (ID #58) Length frequency of *Epinephelus amblycephalus* (Epinephelidae), n = 381
 All Years Combined.**



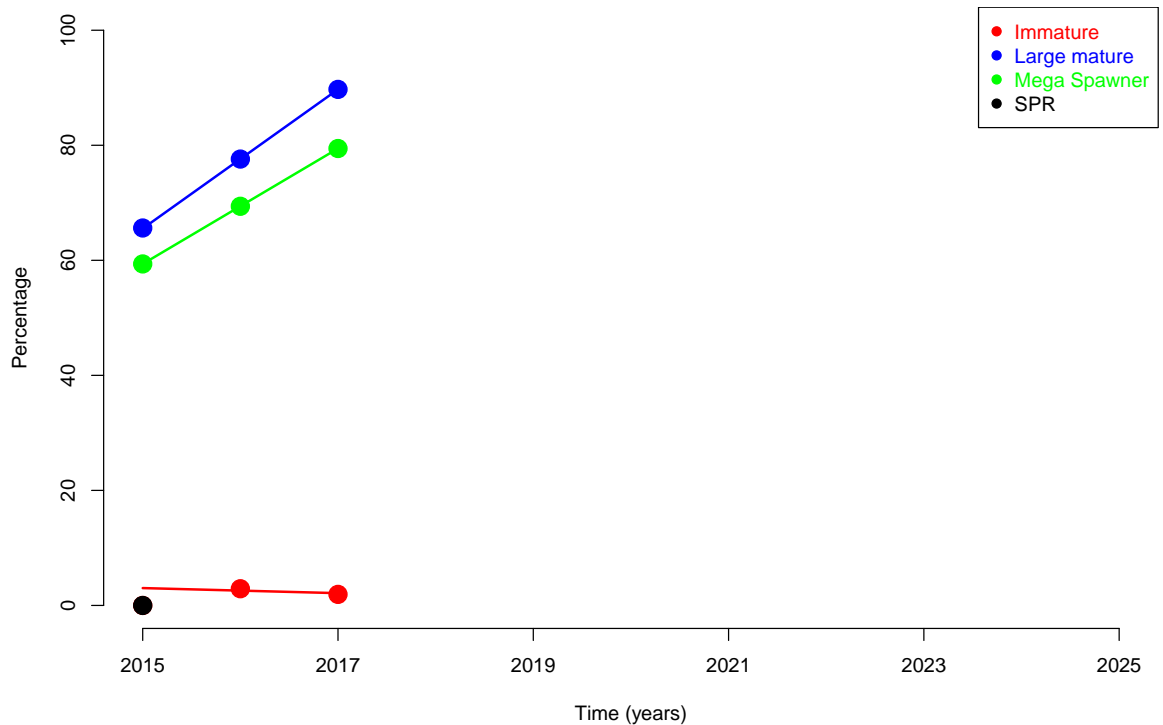
Dropline – Trends by size group for *Epinephelus amblycephalus* (ID #58, Epinephelidae)



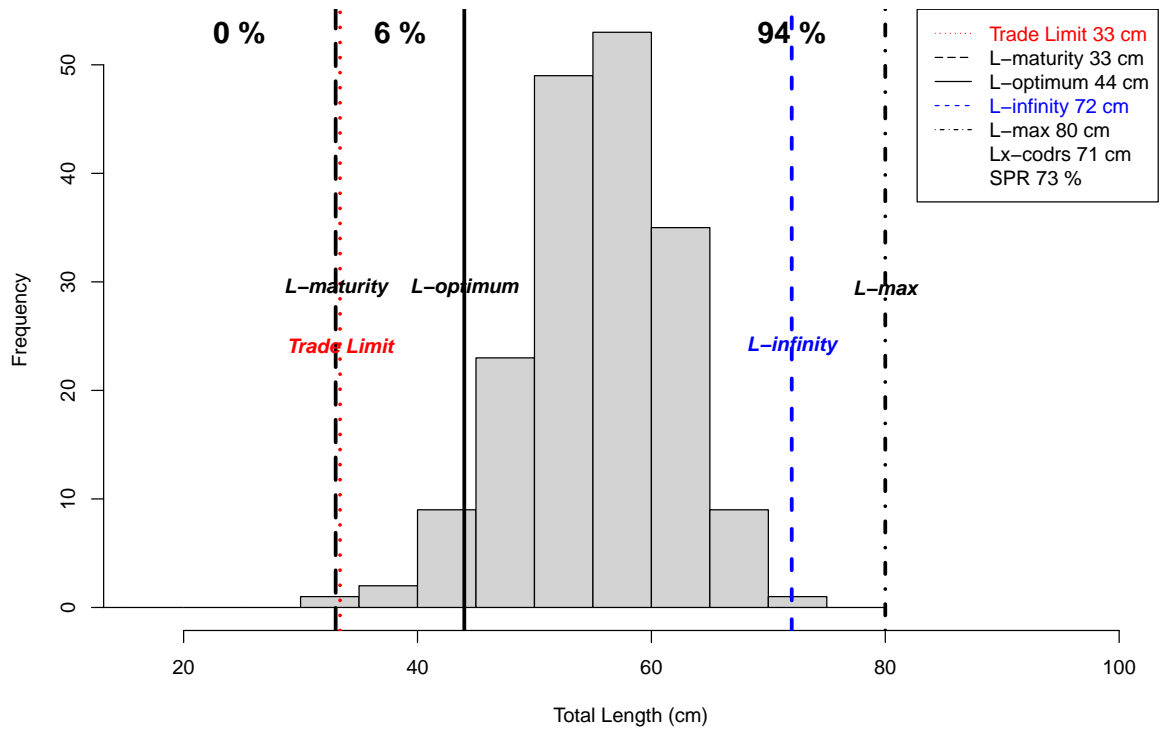
Longline – (ID #58) Length frequency of *Epinephelus amblycephalus* (Epinephelidae), n = 1,084
 All Years Combined.



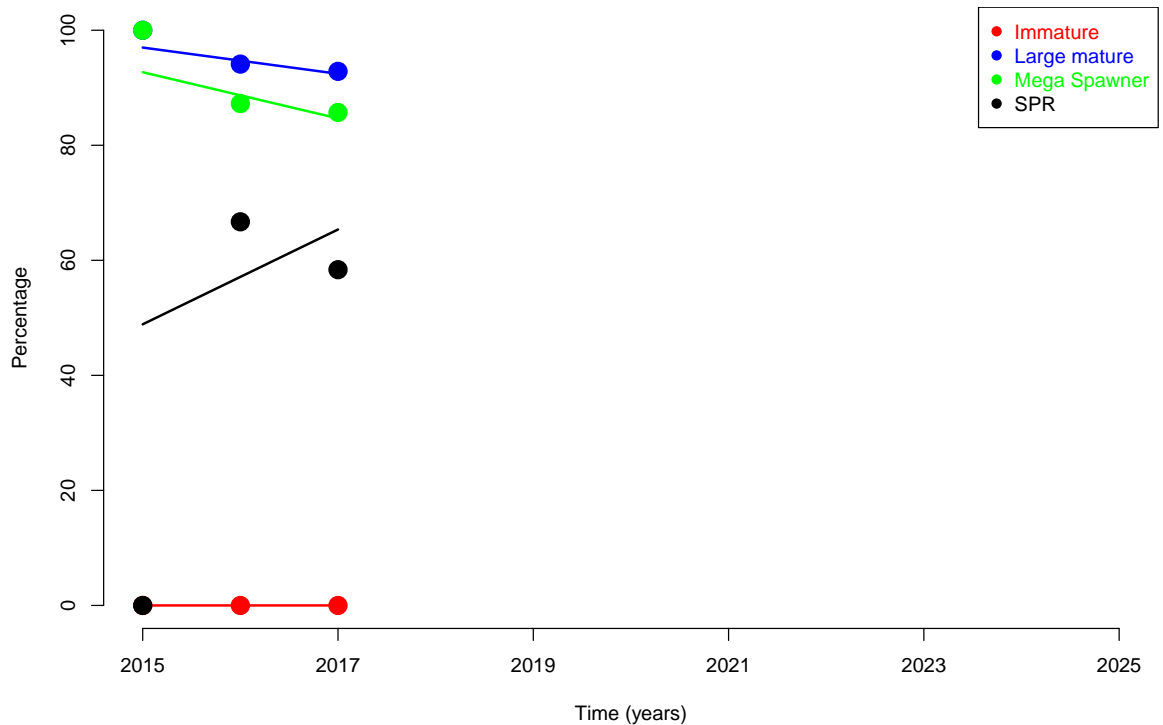
Longline – Trends by size group for *Epinephelus amblycephalus* (ID #58, Epinephelidae)



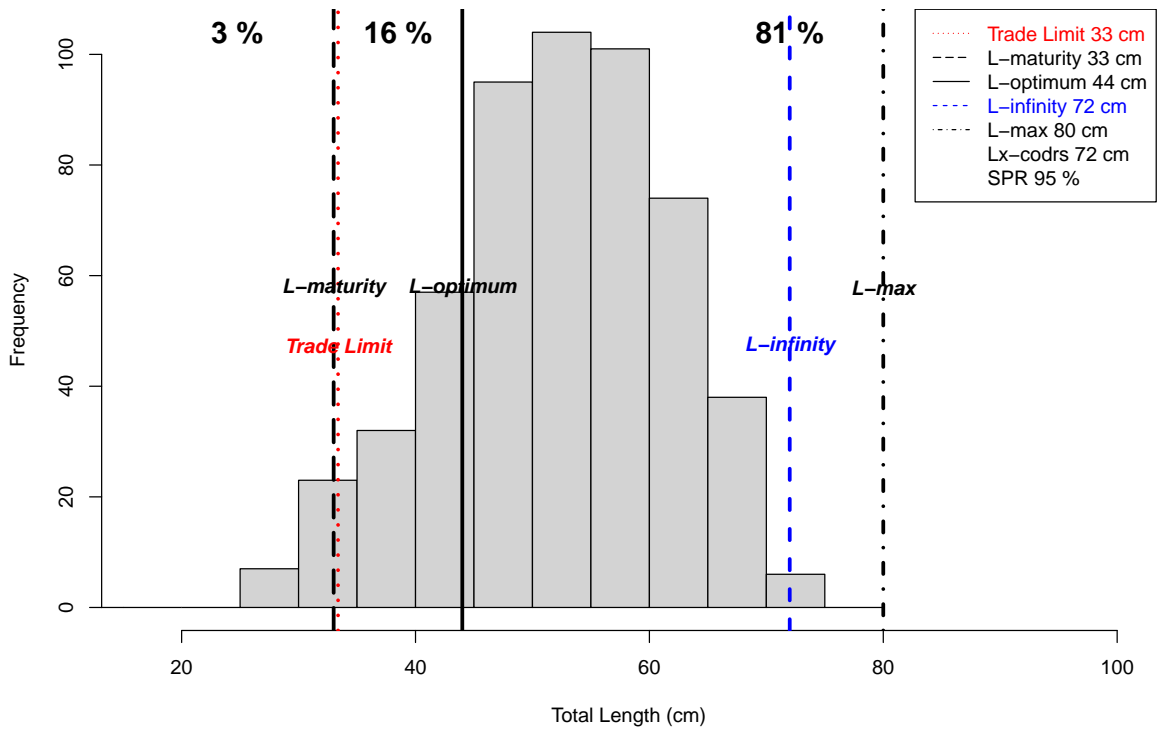
**Dropline – (ID #61) Length frequency of *Plectropomus leopardus* (Epinephelidae), n = 182
 All Years Combined.**



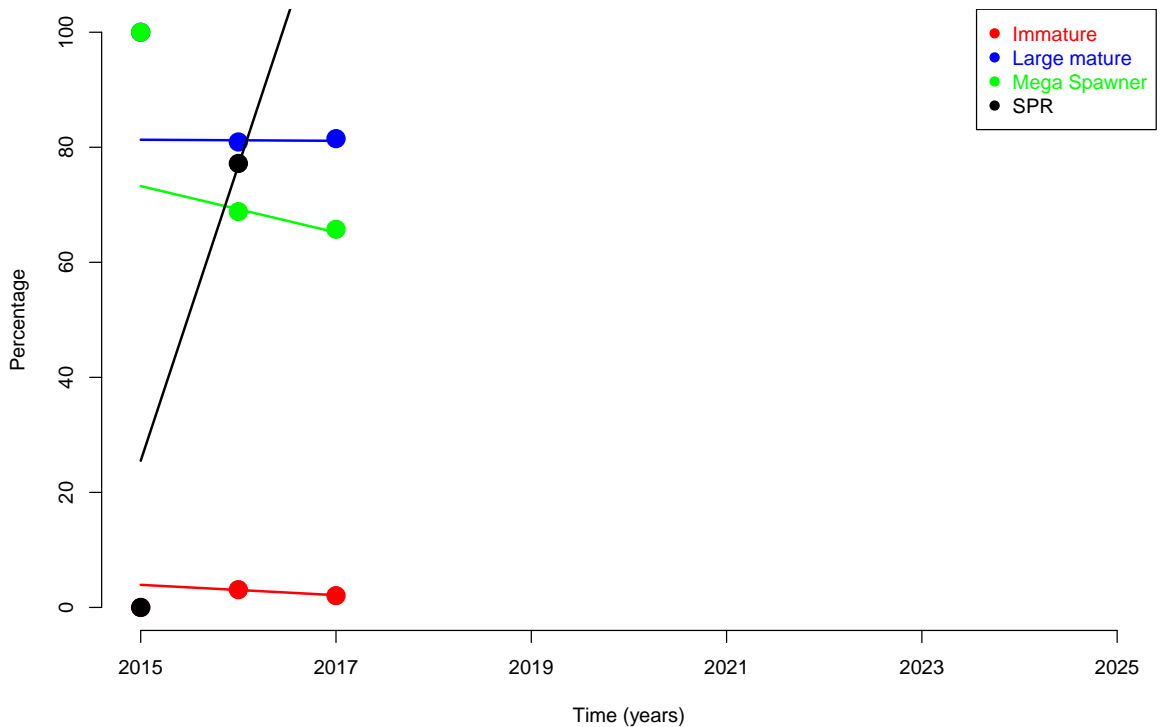
Dropline – Trends by size group for *Plectropomus leopardus* (ID #61, Epinephelidae)



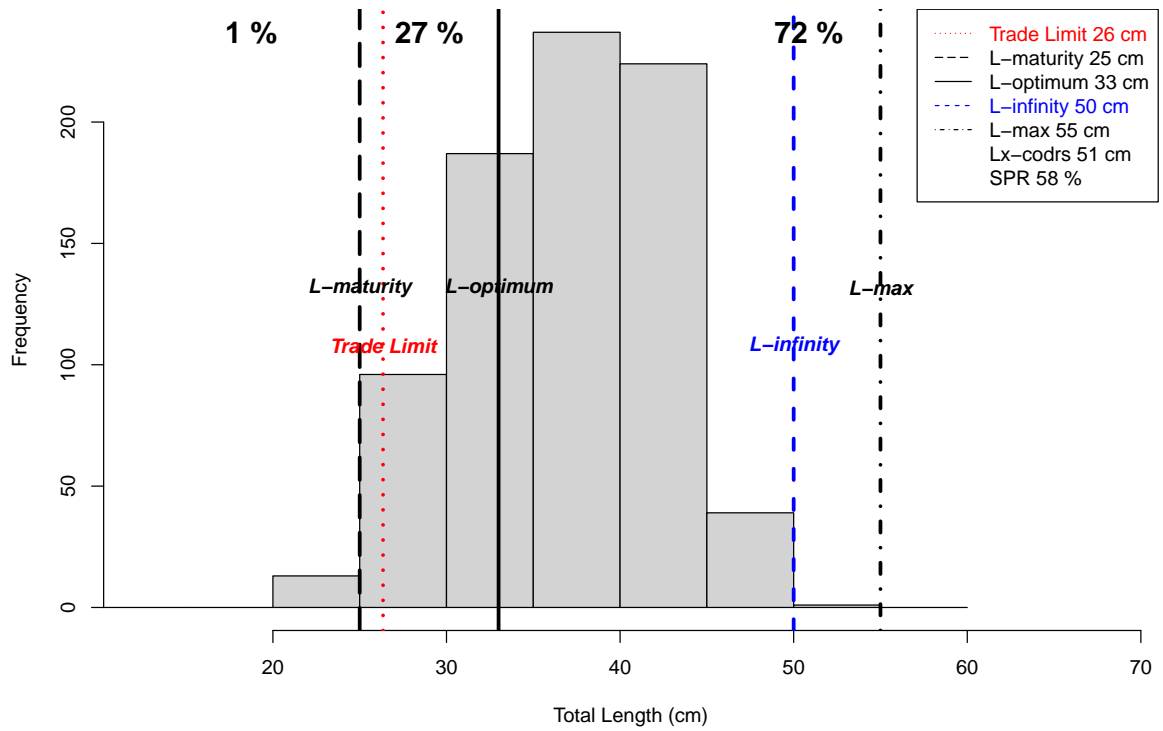
**Longline – (ID #61) Length frequency of *Plectropomus leopardus* (Epinephelidae), n = 537
 All Years Combined.**



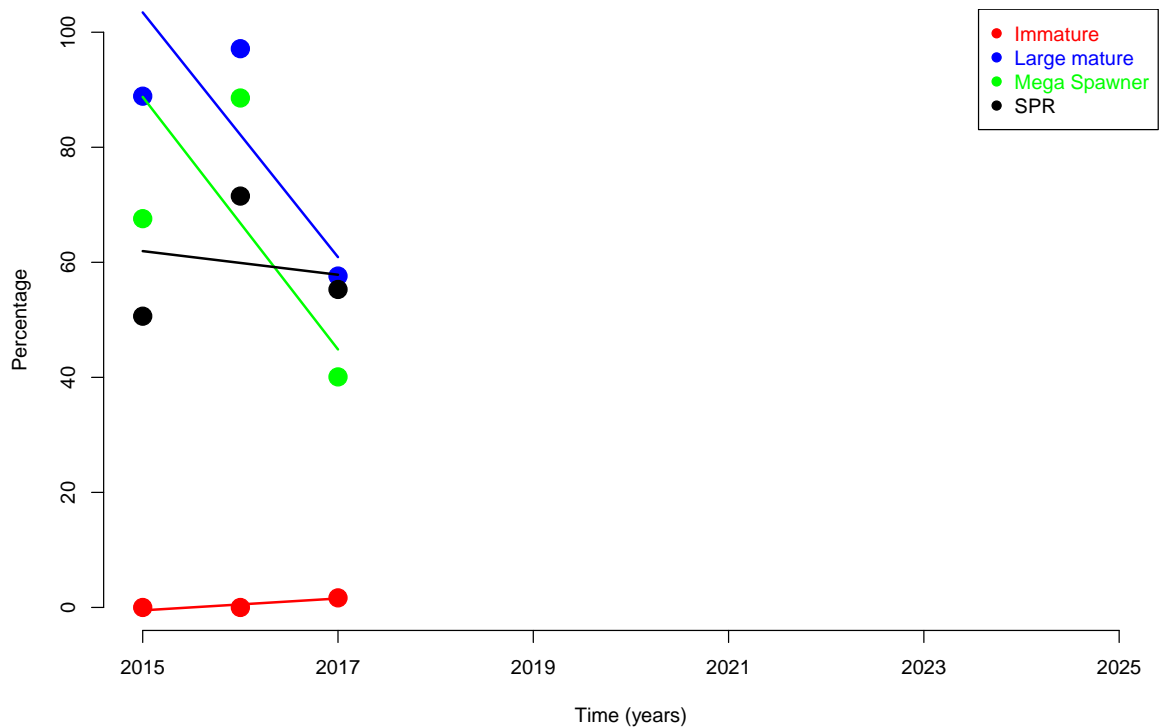
Longline – Trends by size group for *Plectropomus leopardus* (ID #61, Epinephelidae)

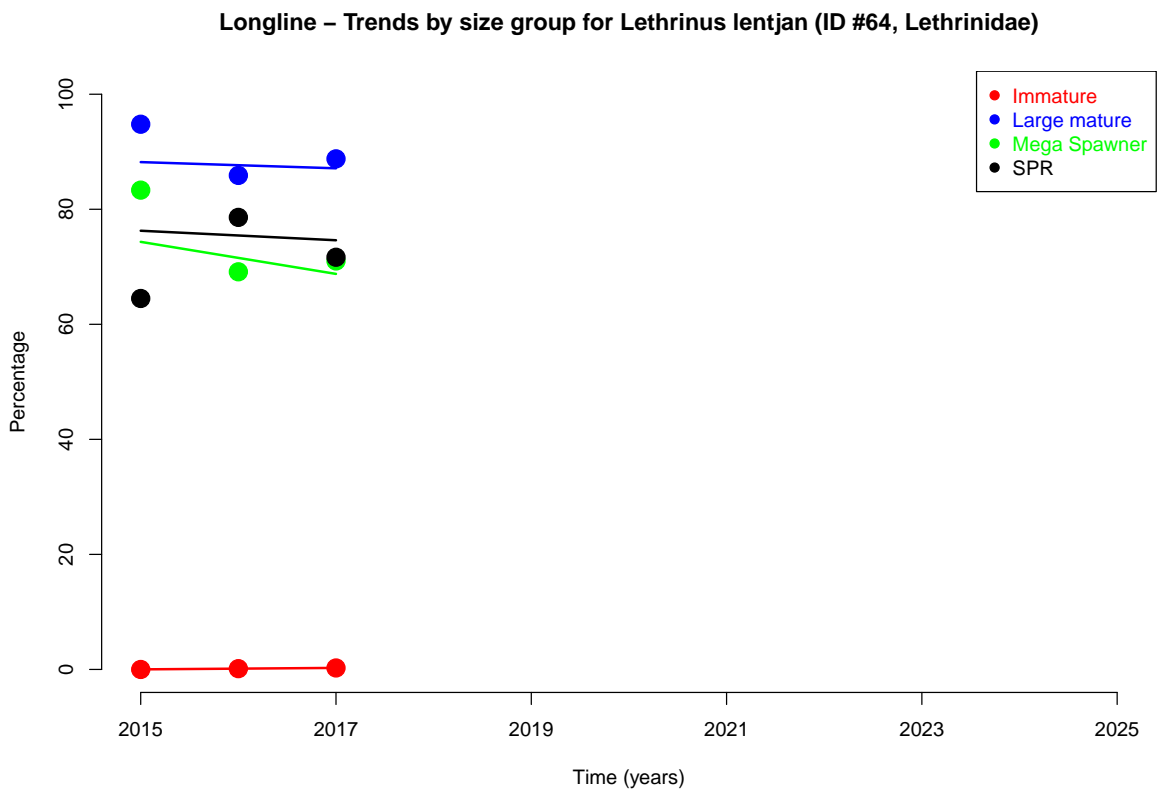
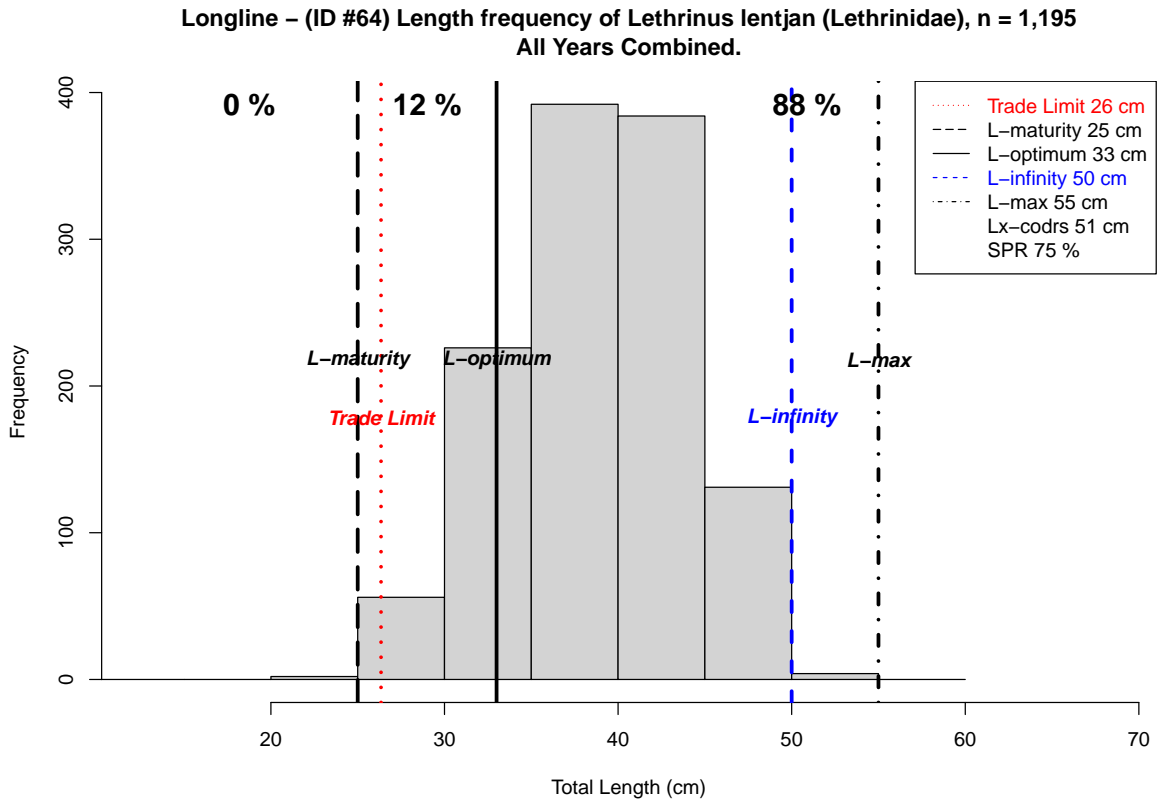


**Dropline – (ID #64) Length frequency of *Lethrinus lentjan* (Lethrinidae), n = 797
 All Years Combined.**

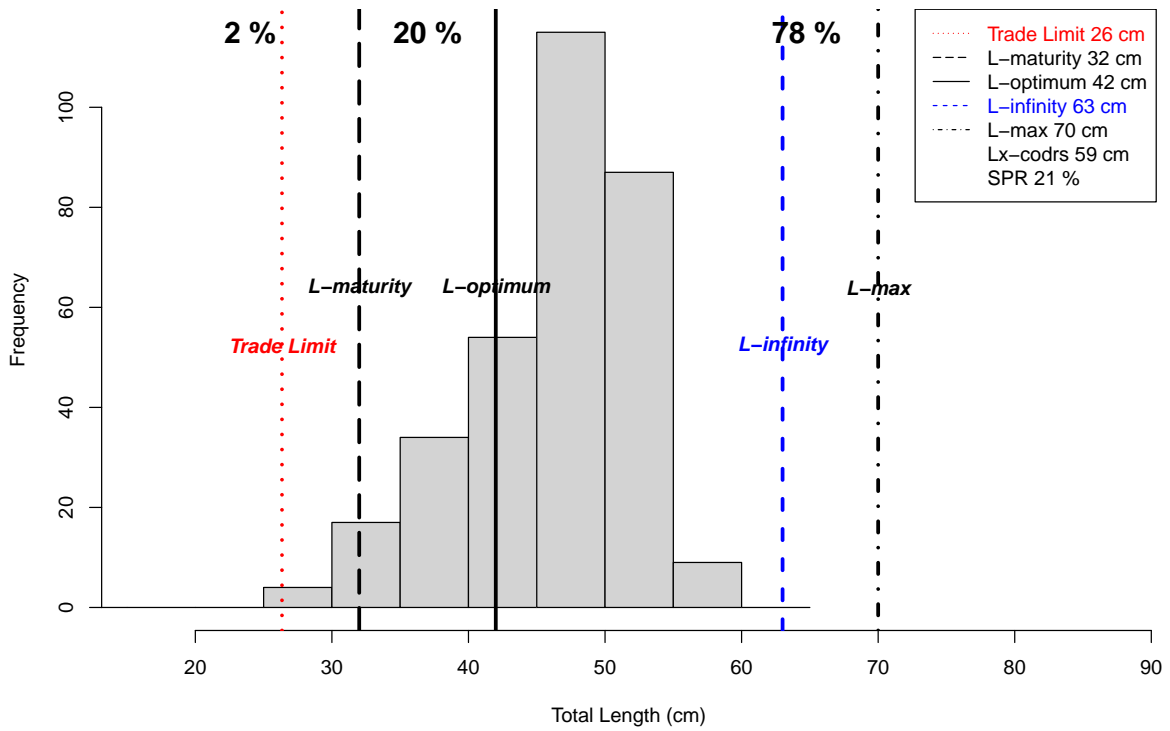


Dropline – Trends by size group for *Lethrinus lentjan* (ID #64, Lethrinidae)

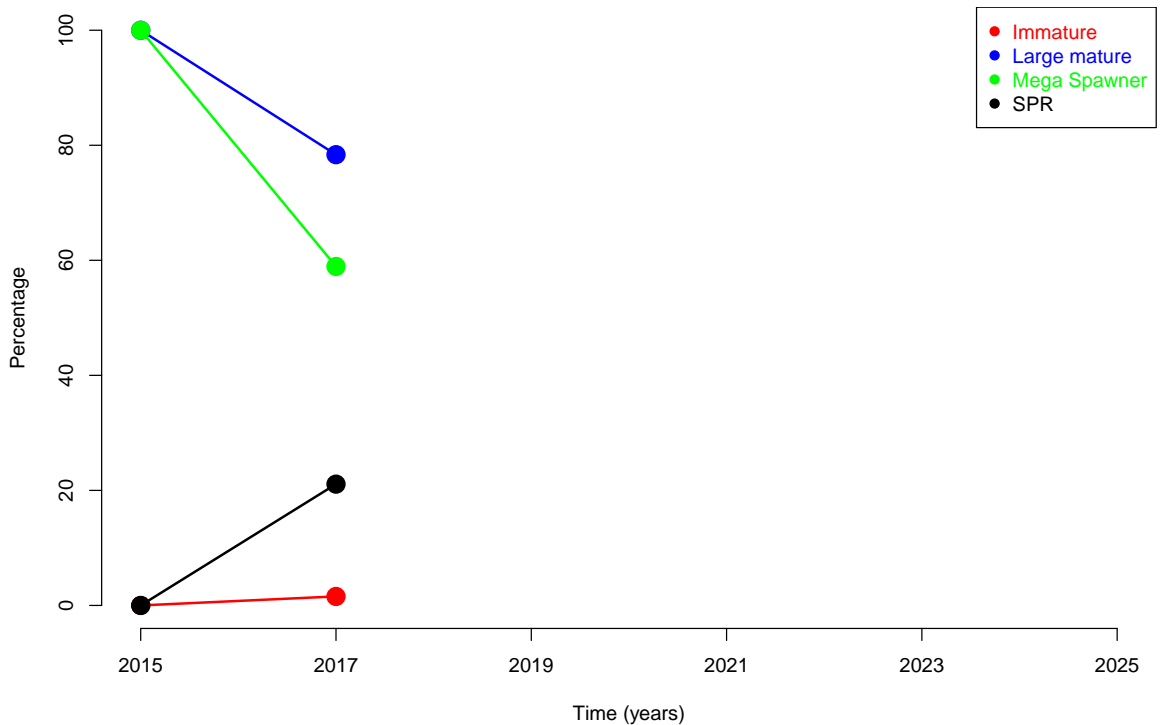




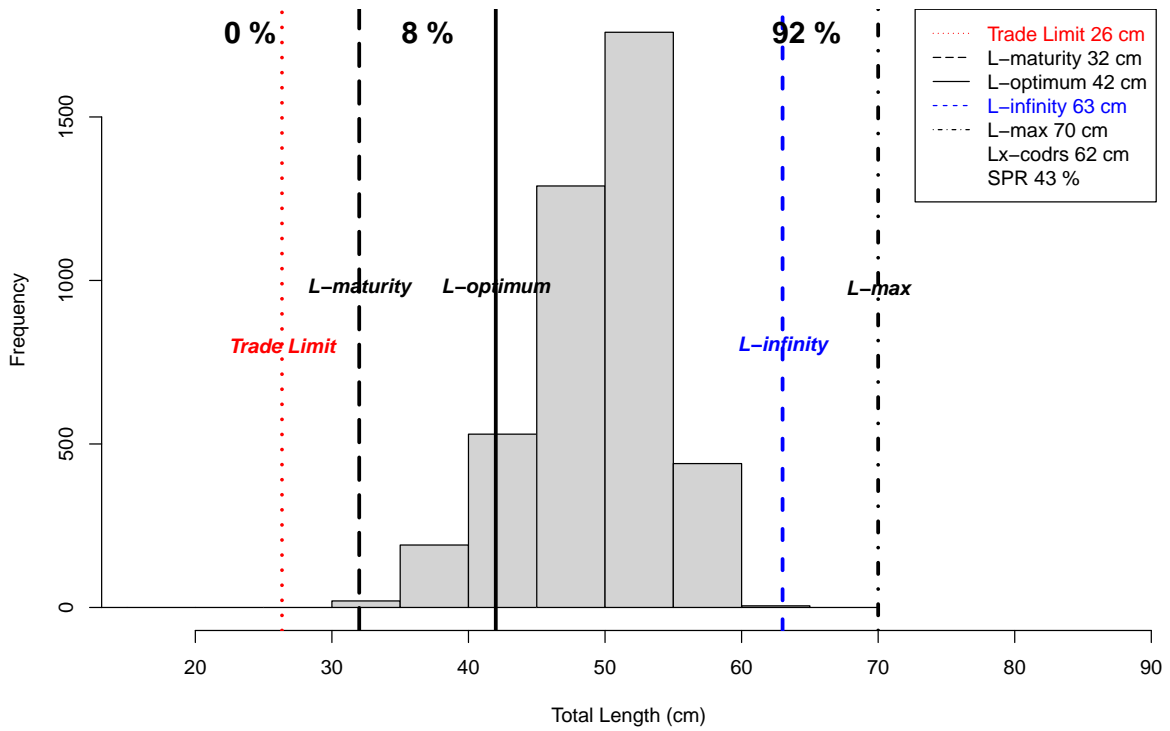
**Dropline – (ID #65) Length frequency of *Lethrinus laticaudis* (Lethrinidae), n = 320
 All Years Combined.**



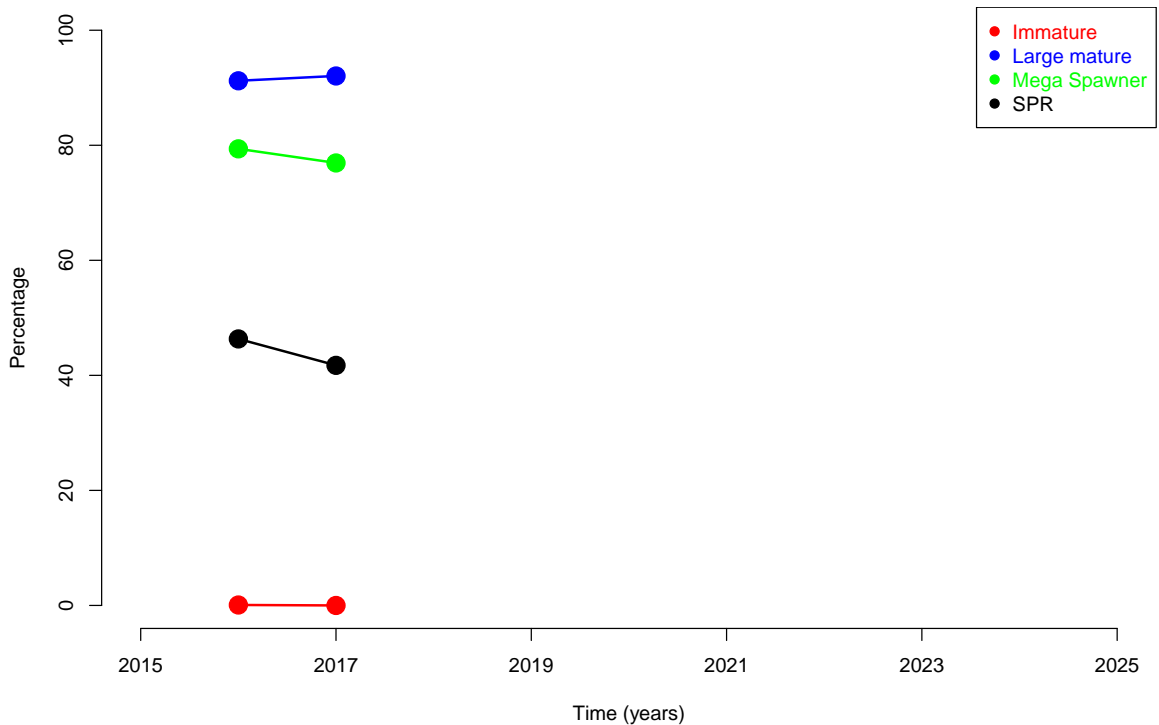
Dropline – Trends by size group for *Lethrinus laticaudis* (ID #65, Lethrinidae)

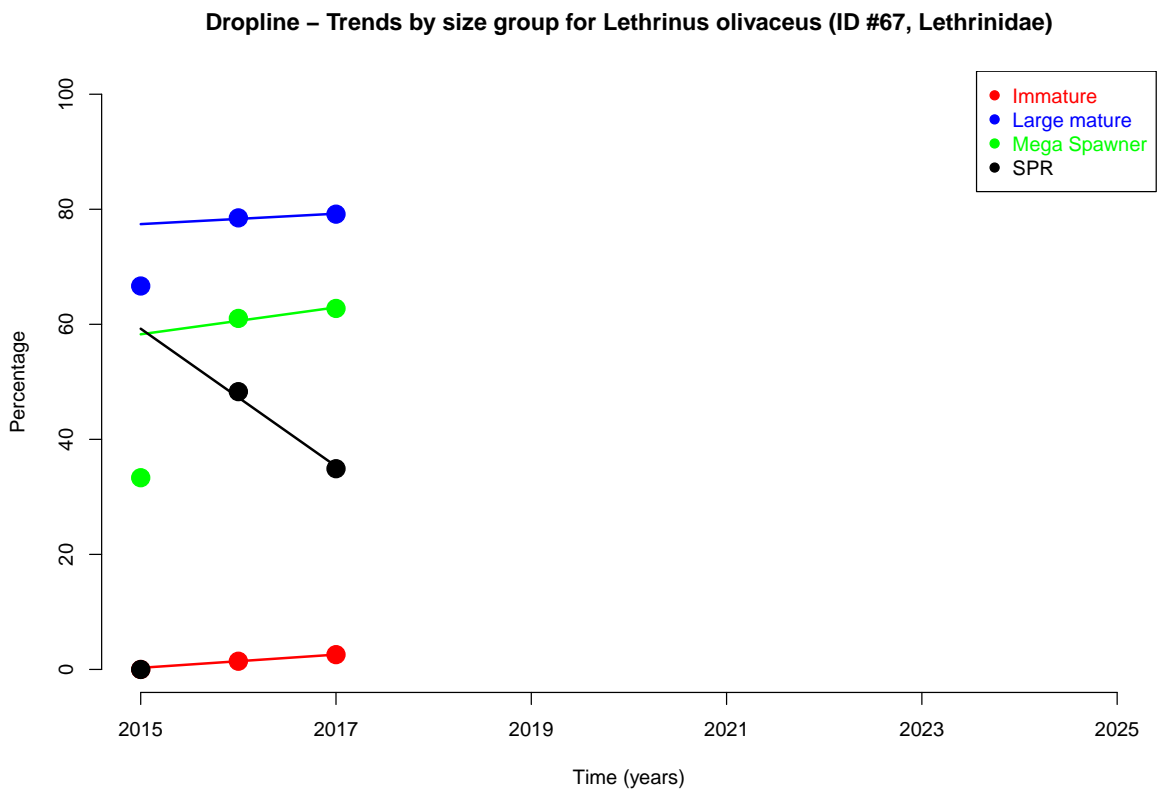
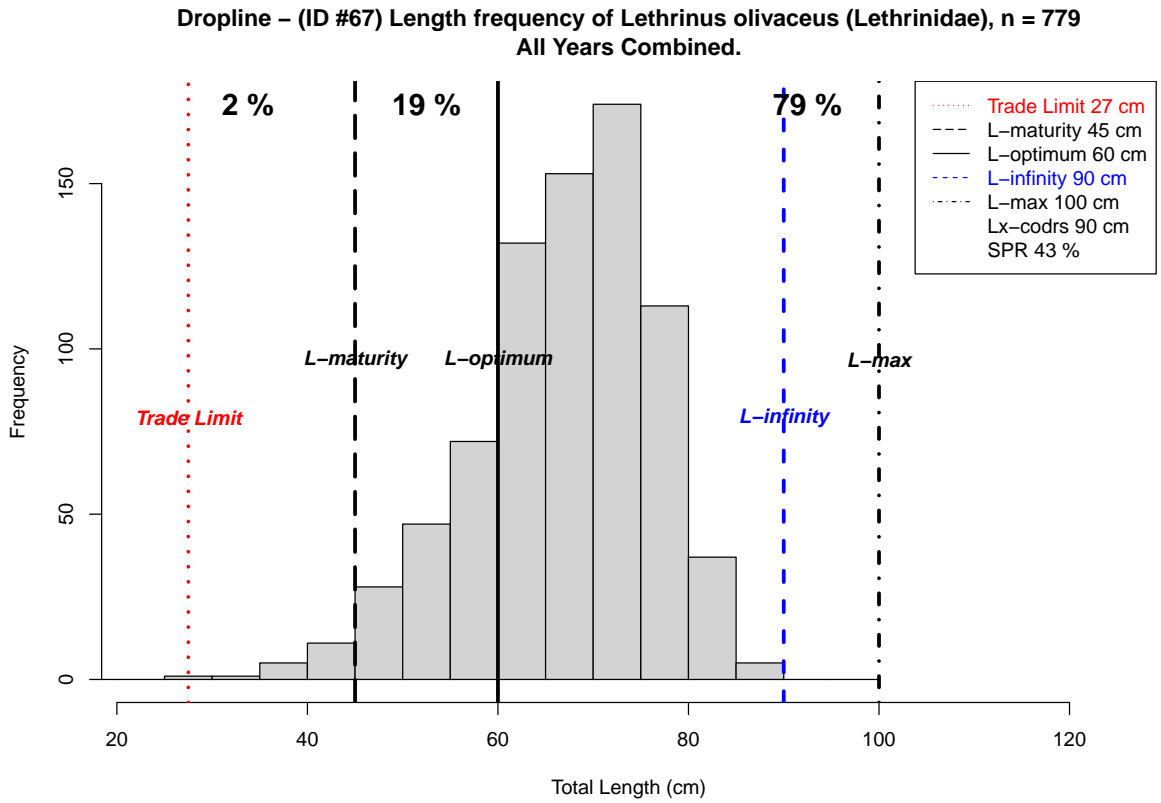


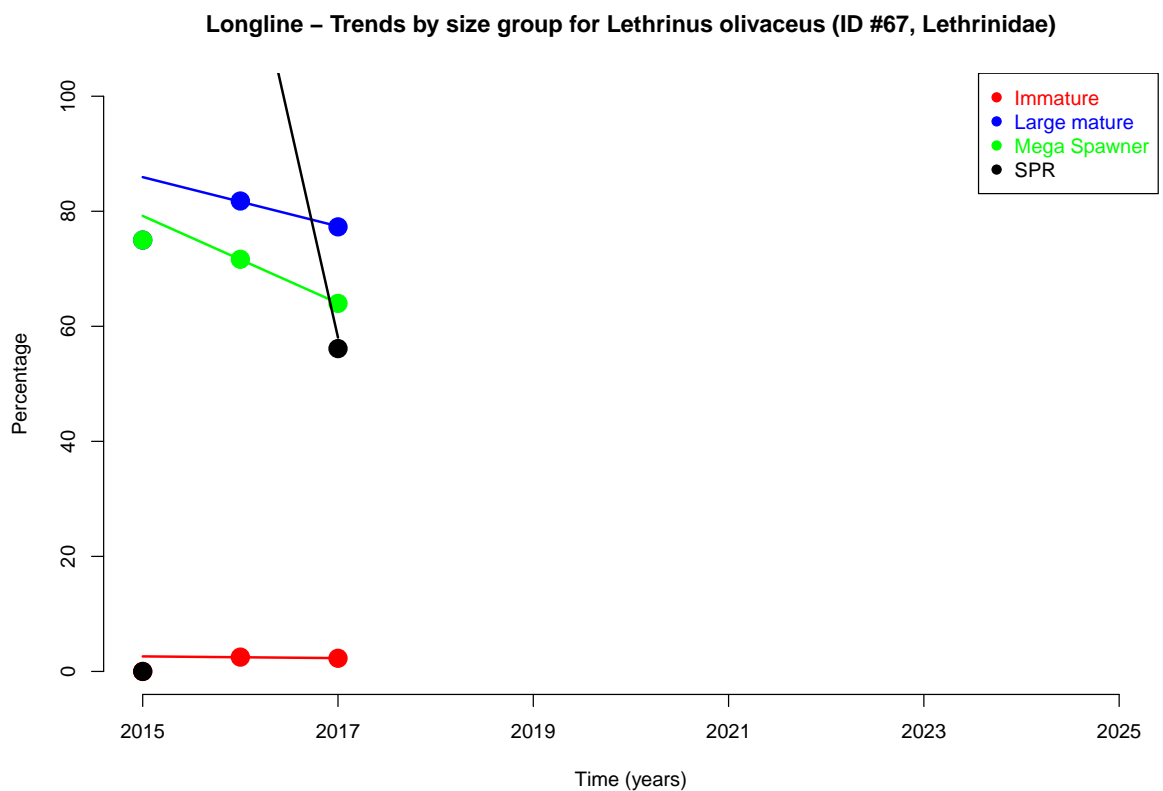
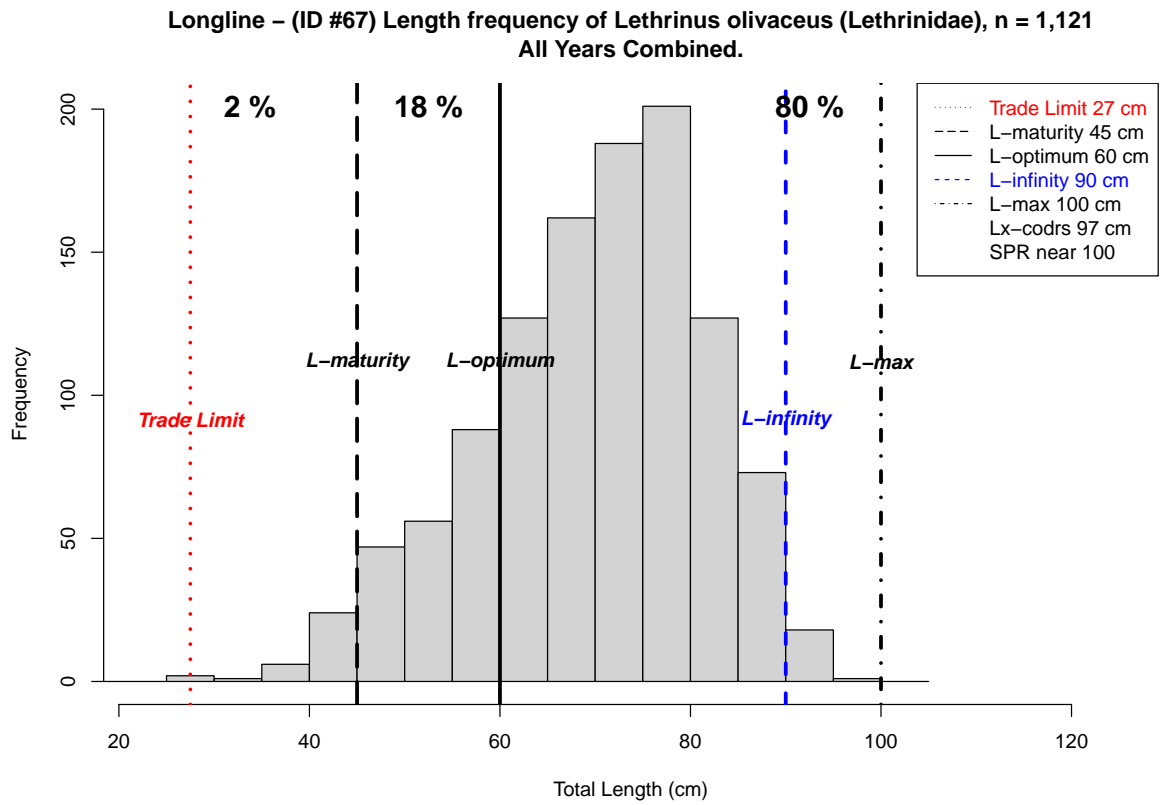
Longline – (ID #65) Length frequency of *Lethrinus laticaudis* (Lethrinidae), n = 4,234
 All Years Combined.



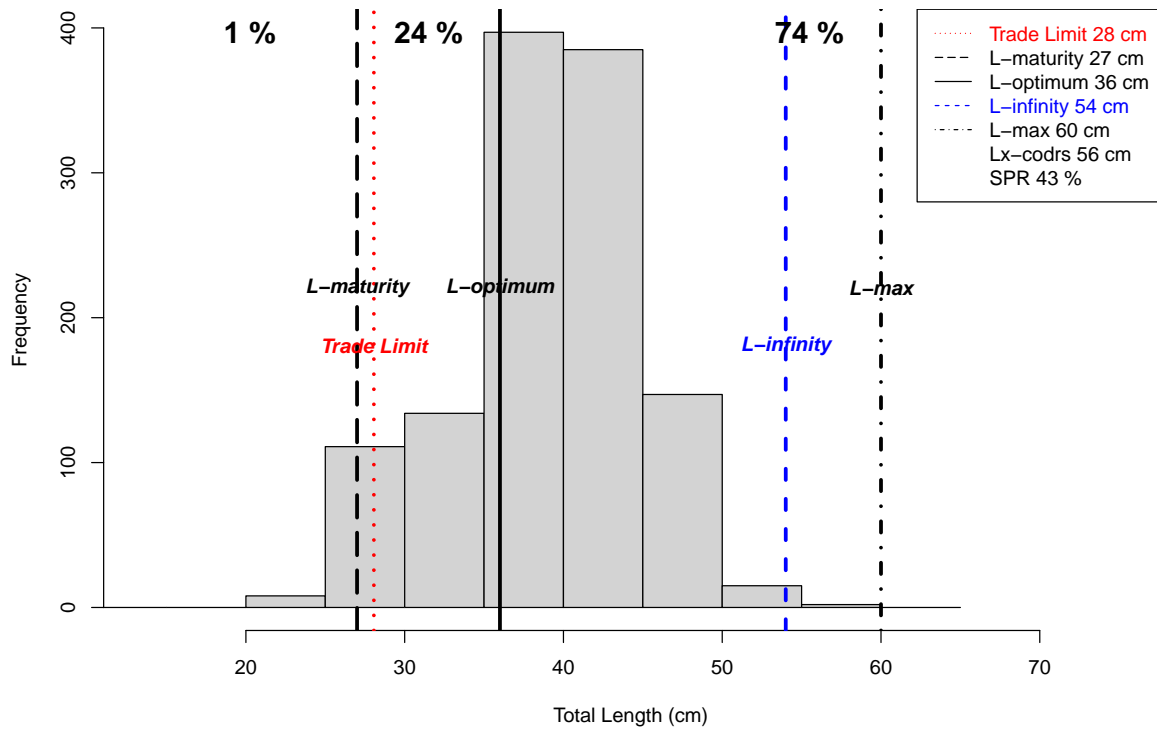
Longline – Trends by size group for *Lethrinus laticaudis* (ID #65, Lethrinidae)



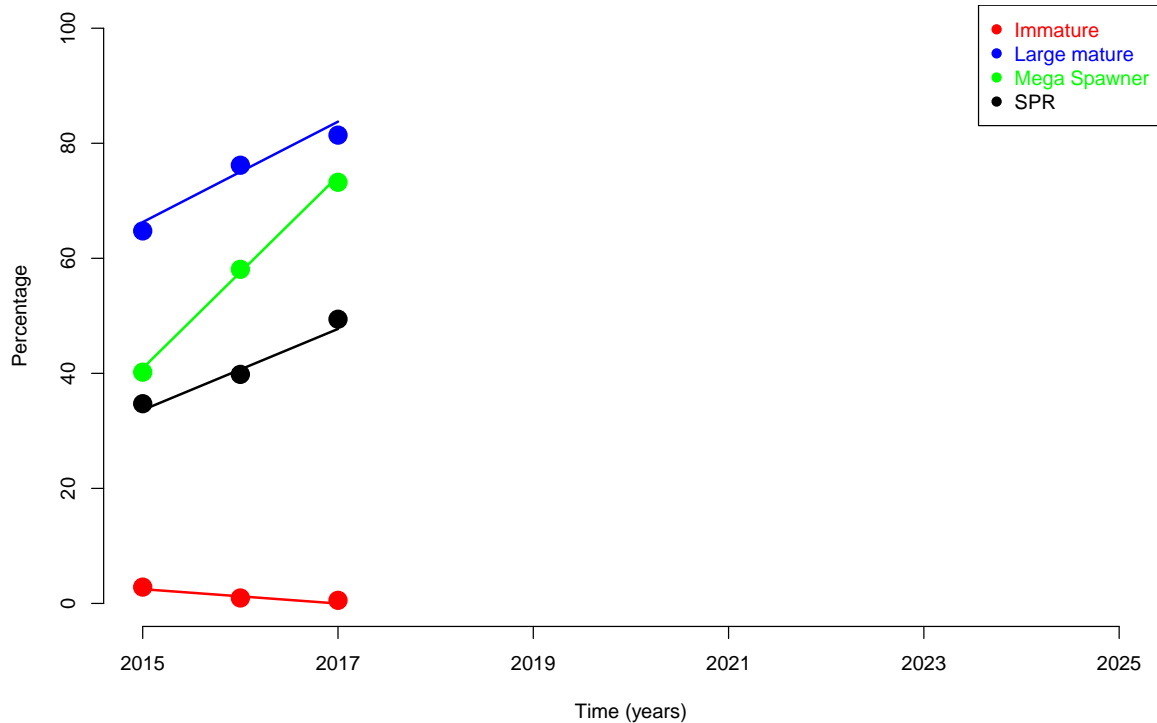




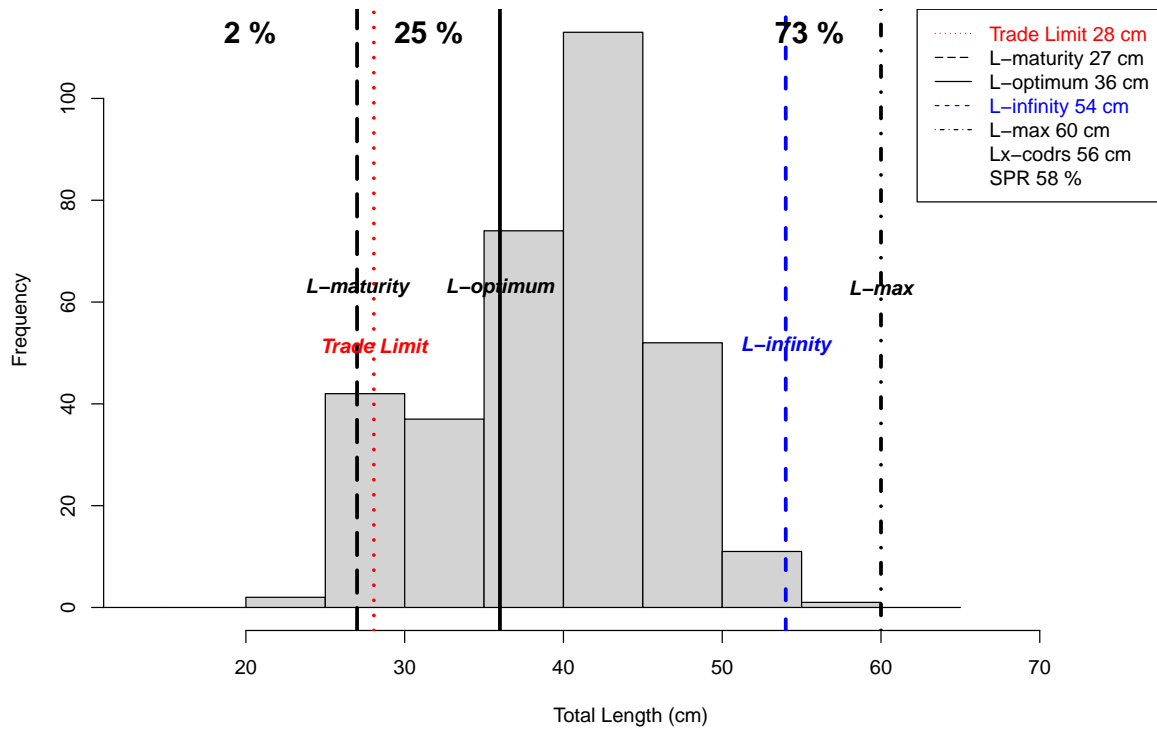
**Dropline – (ID #68) Length frequency of *Lethrinus amboinensis* (Lethrinidae), n = 1,199
 All Years Combined.**



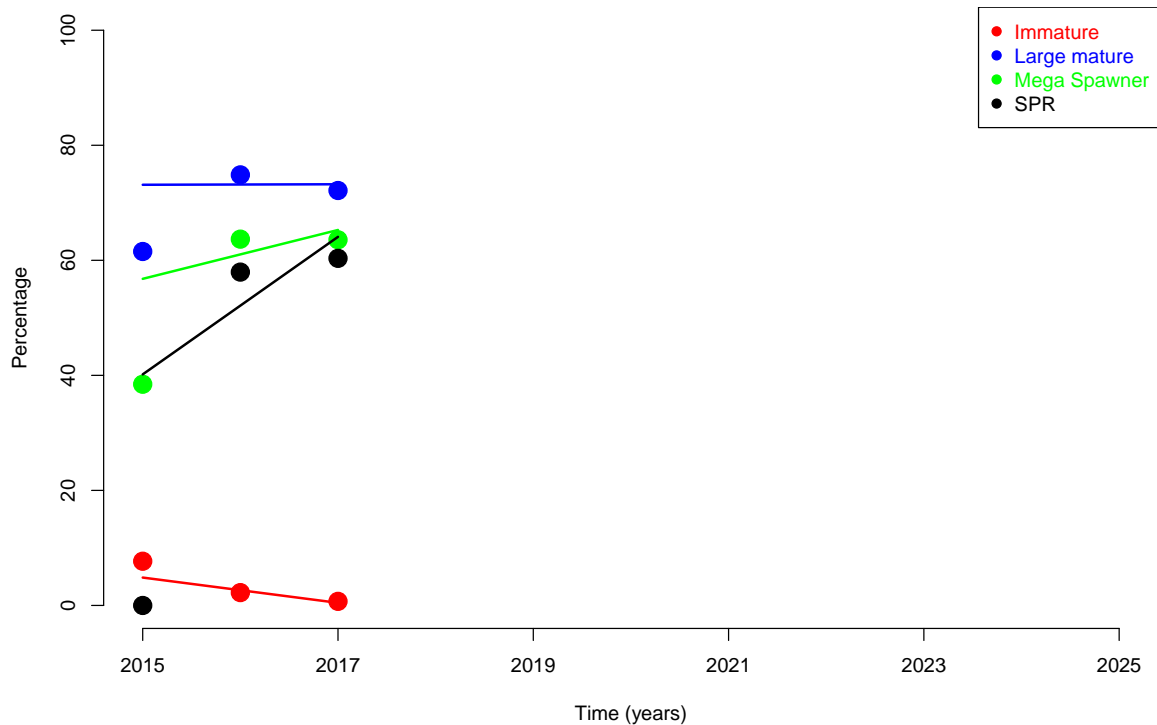
Dropline – Trends by size group for *Lethrinus amboinensis* (ID #68, Lethrinidae)



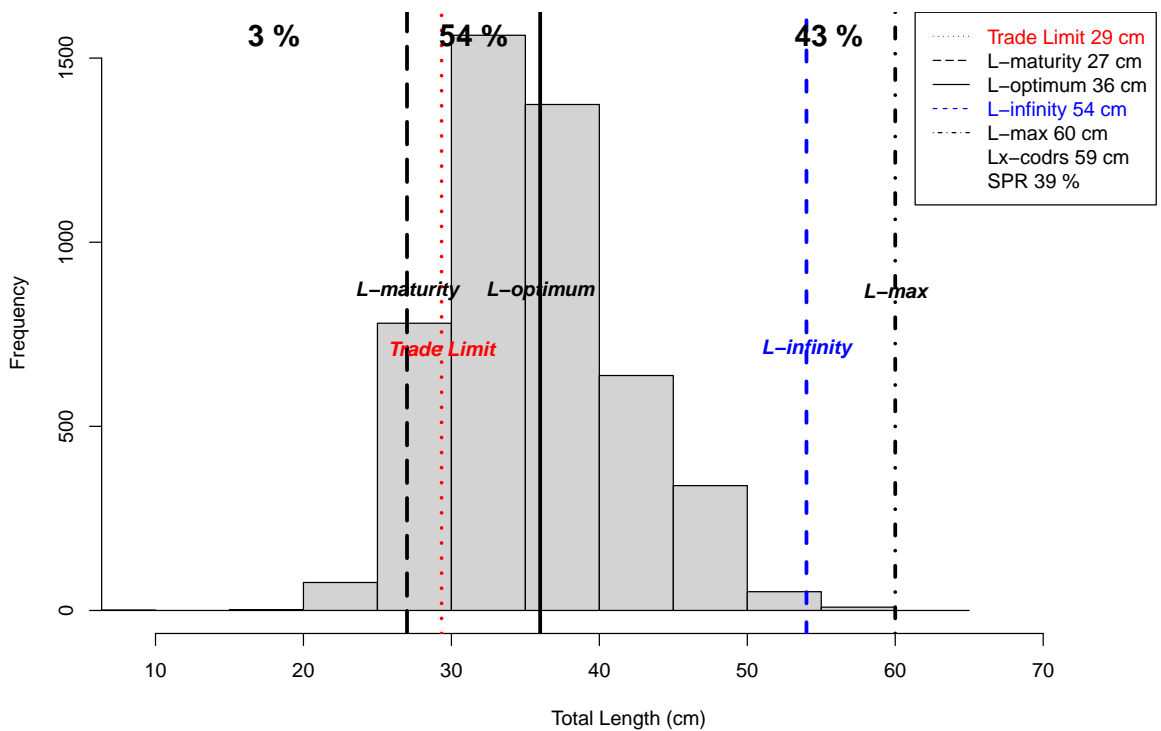
Longline – (ID #68) Length frequency of *Lethrinus amboinensis* (Lethrinidae), n = 332
 All Years Combined.



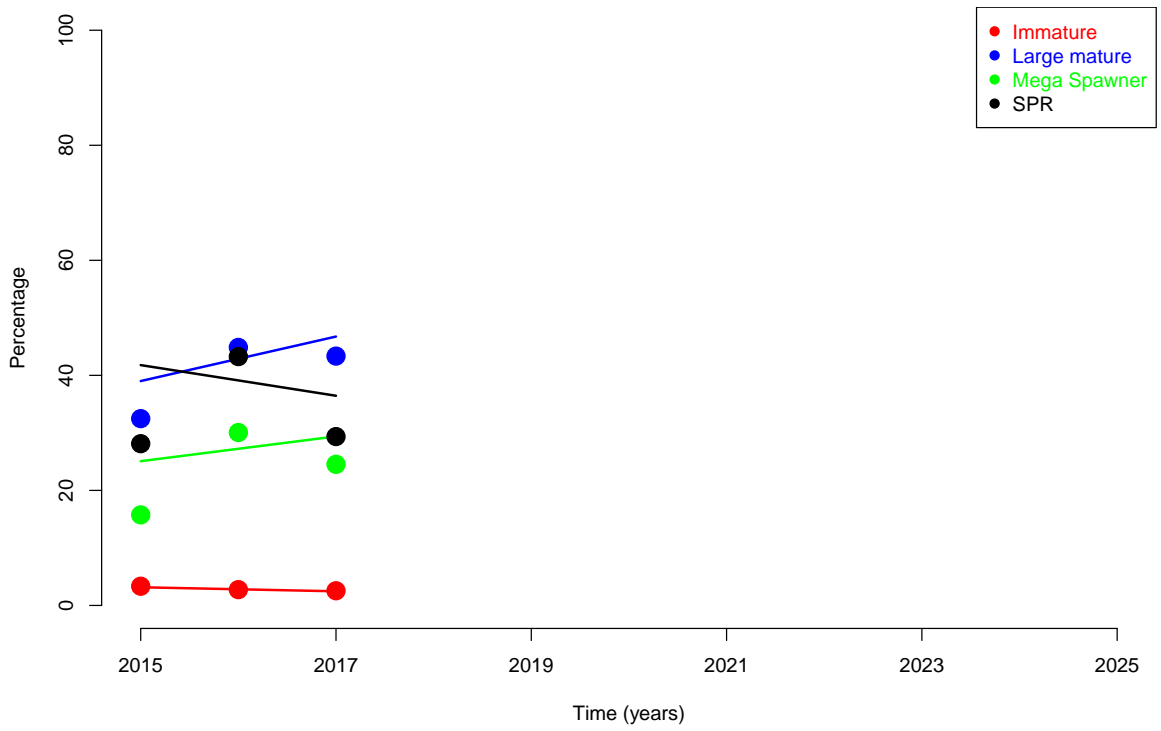
Longline – Trends by size group for *Lethrinus amboinensis* (ID #68, Lethrinidae)



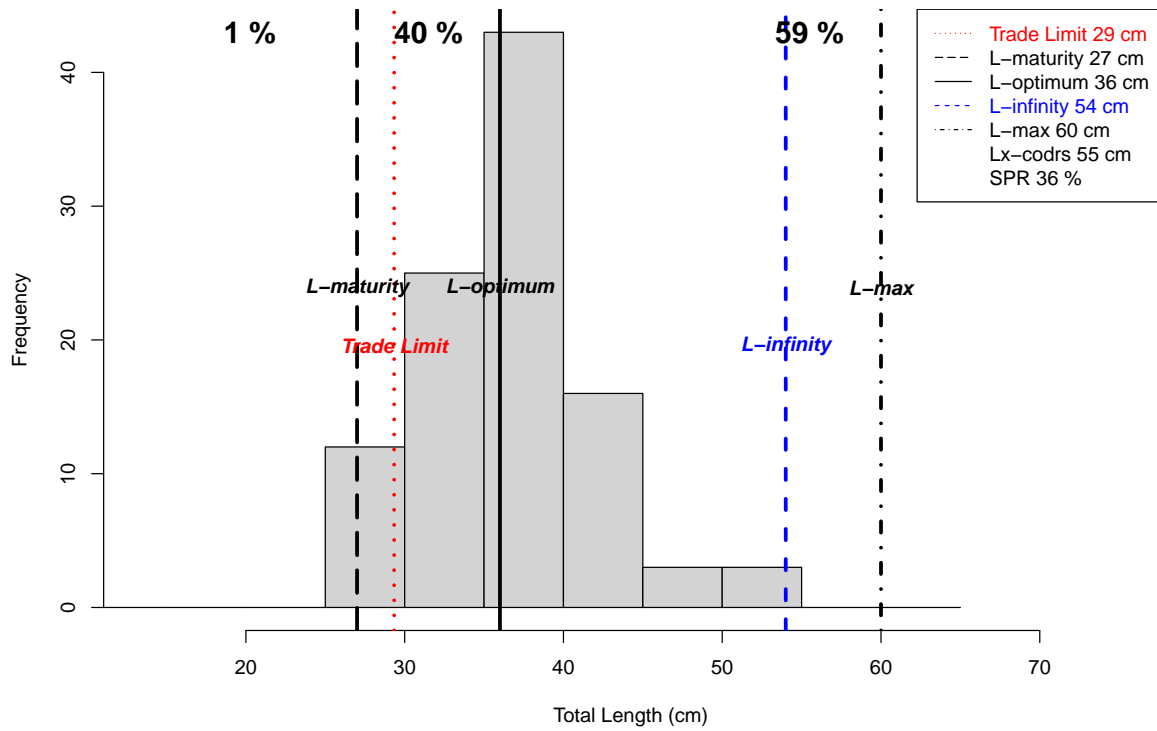
**Dropline – (ID #70) Length frequency of *Wattsia mossambica* (Lethrinidae), n = 4,832
 All Years Combined.**



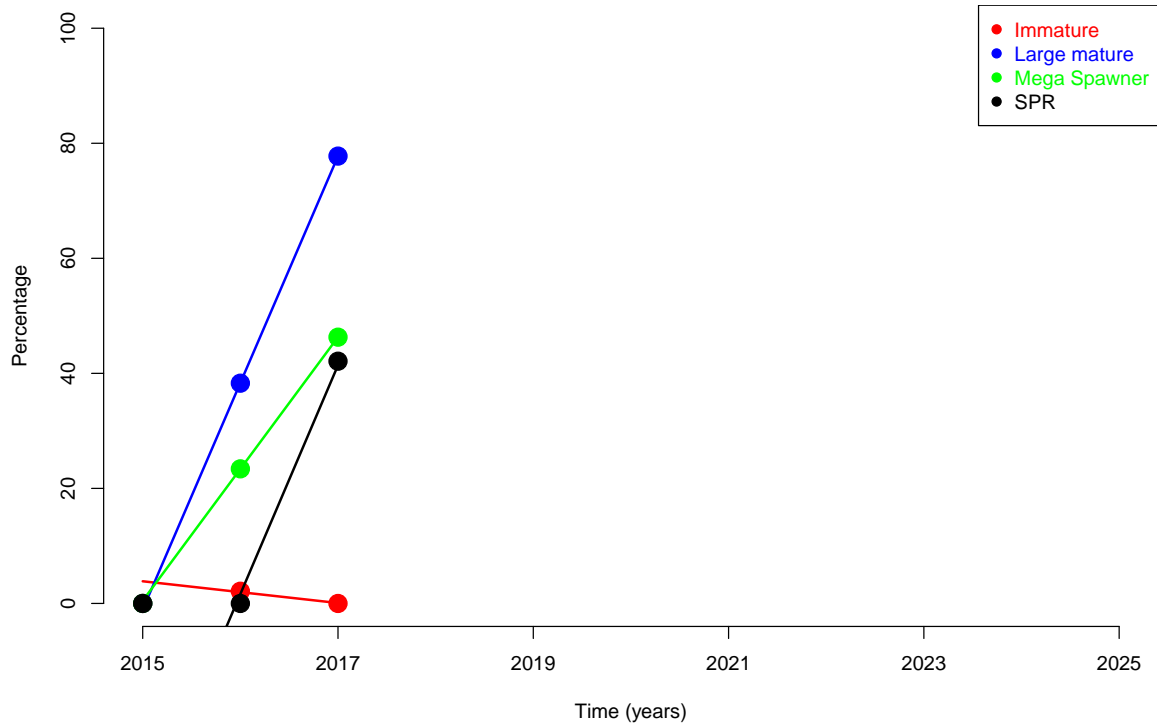
Dropline – Trends by size group for *Wattsia mossambica* (ID #70, Lethrinidae)



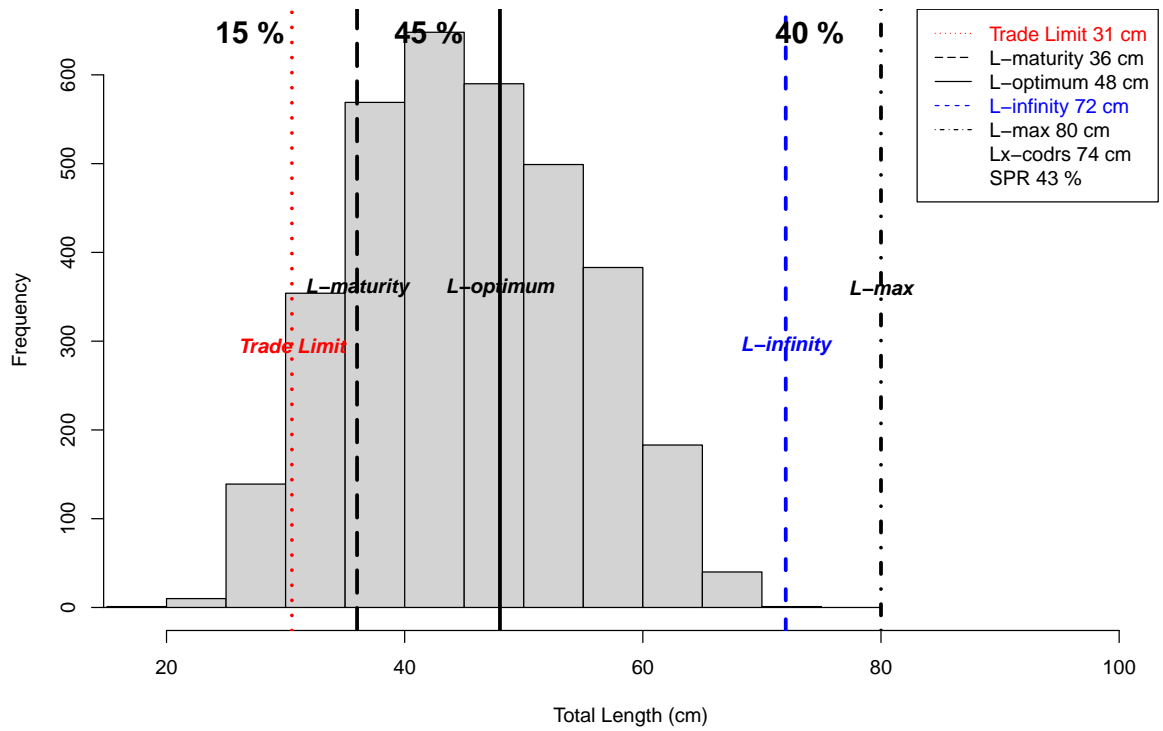
Longline – (ID #70) Length frequency of *Wattsia mossambica* (Lethrinidae), n = 102
 All Years Combined.



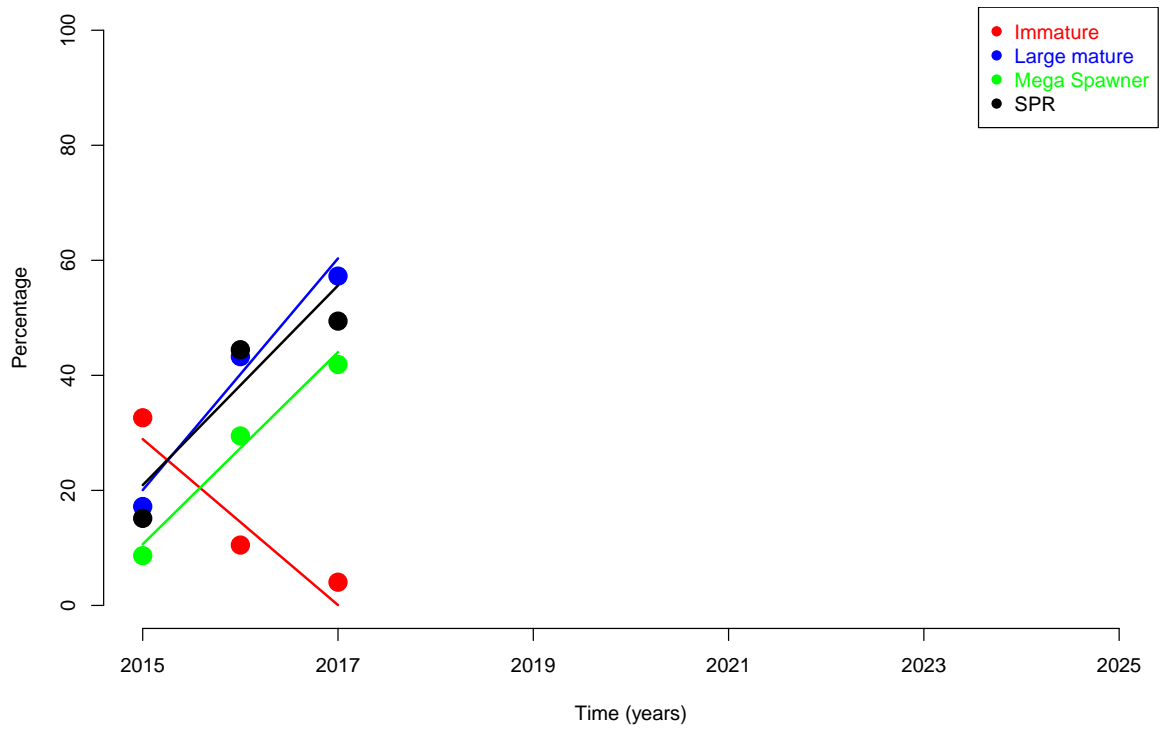
Longline – Trends by size group for *Wattsia mossambica* (ID #70, Lethrinidae)



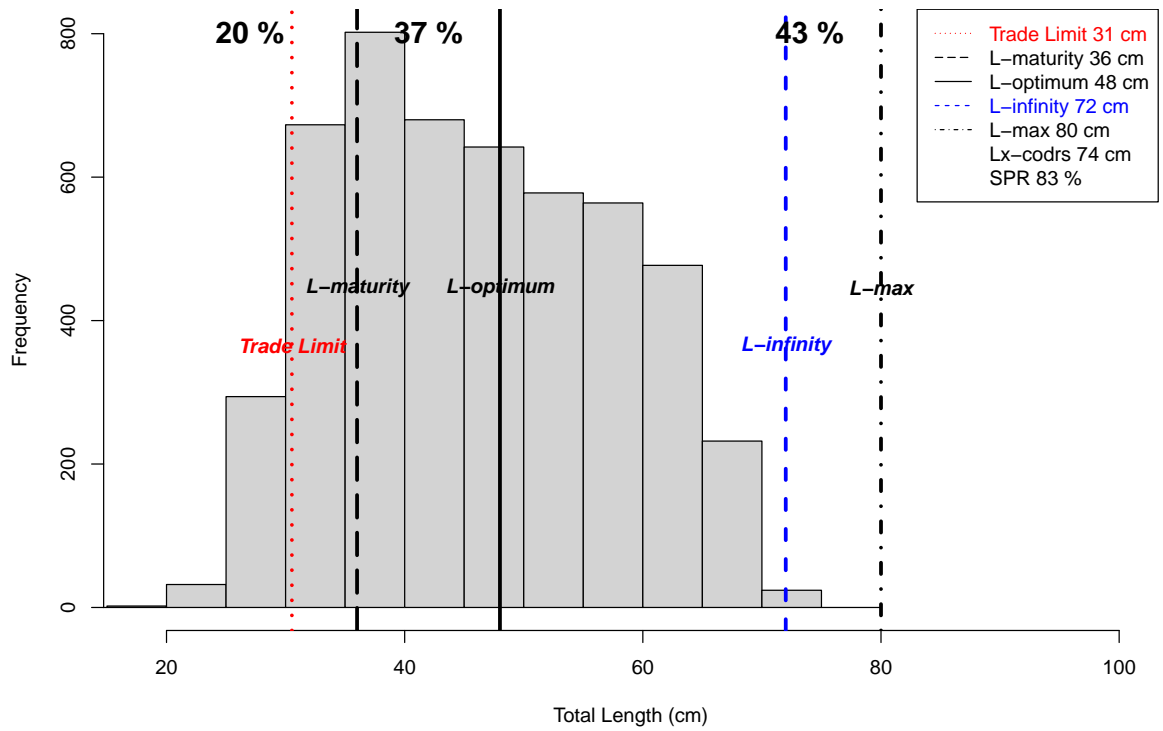
**Dropline – (ID #71) Length frequency of *Gymnocranius grandoculis* (Lethrinidae), n = 3,417
 All Years Combined.**



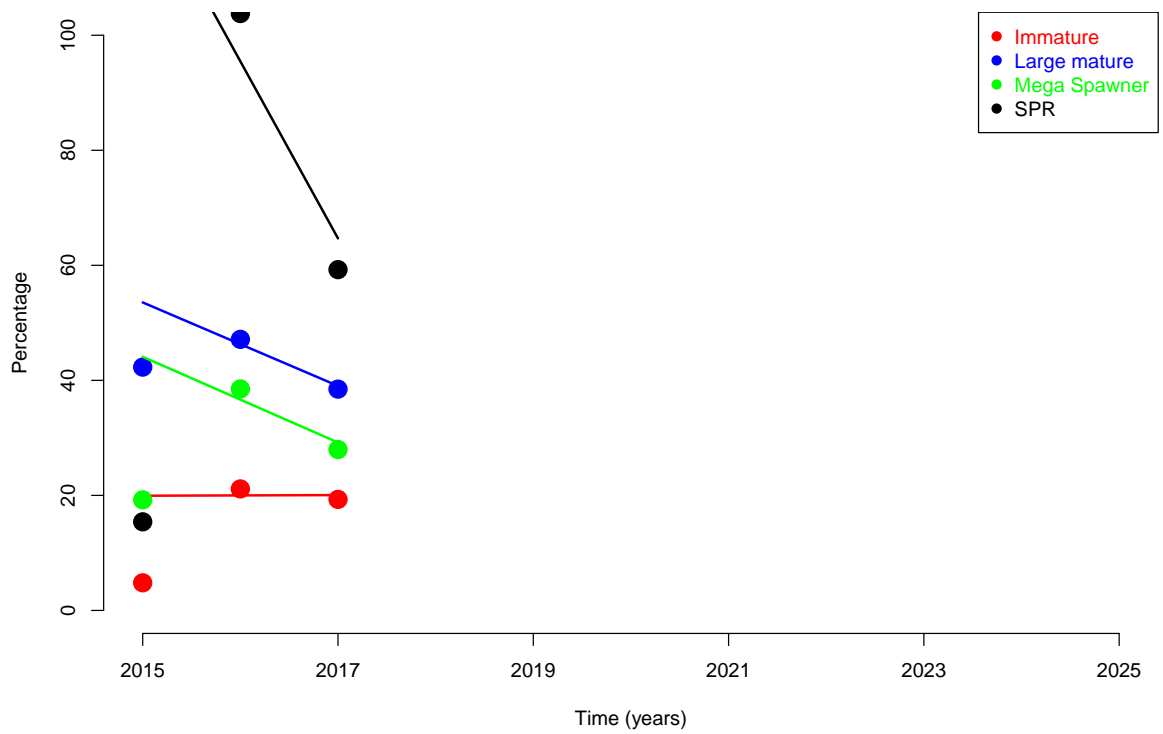
Dropline – Trends by size group for *Gymnocranius grandoculis* (ID #71, Lethrinidae)



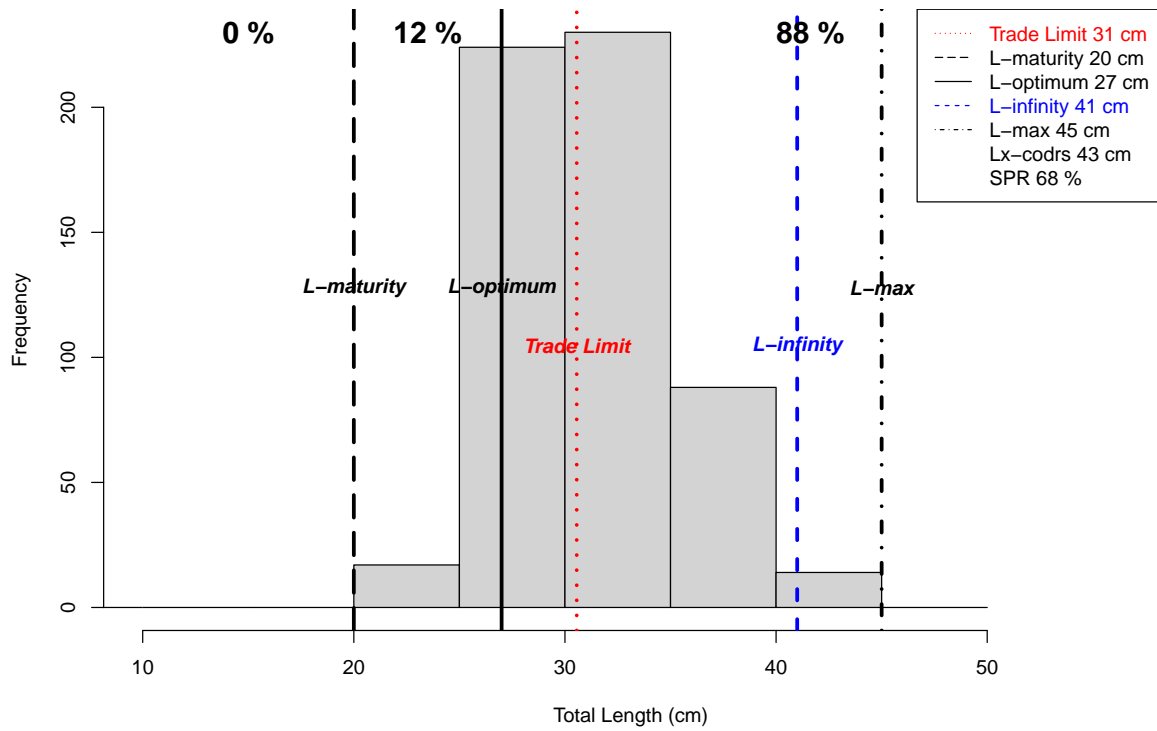
Longline – (ID #71) Length frequency of *Gymnocranius grandoculis* (Lethrinidae), n = 5,000
 All Years Combined.



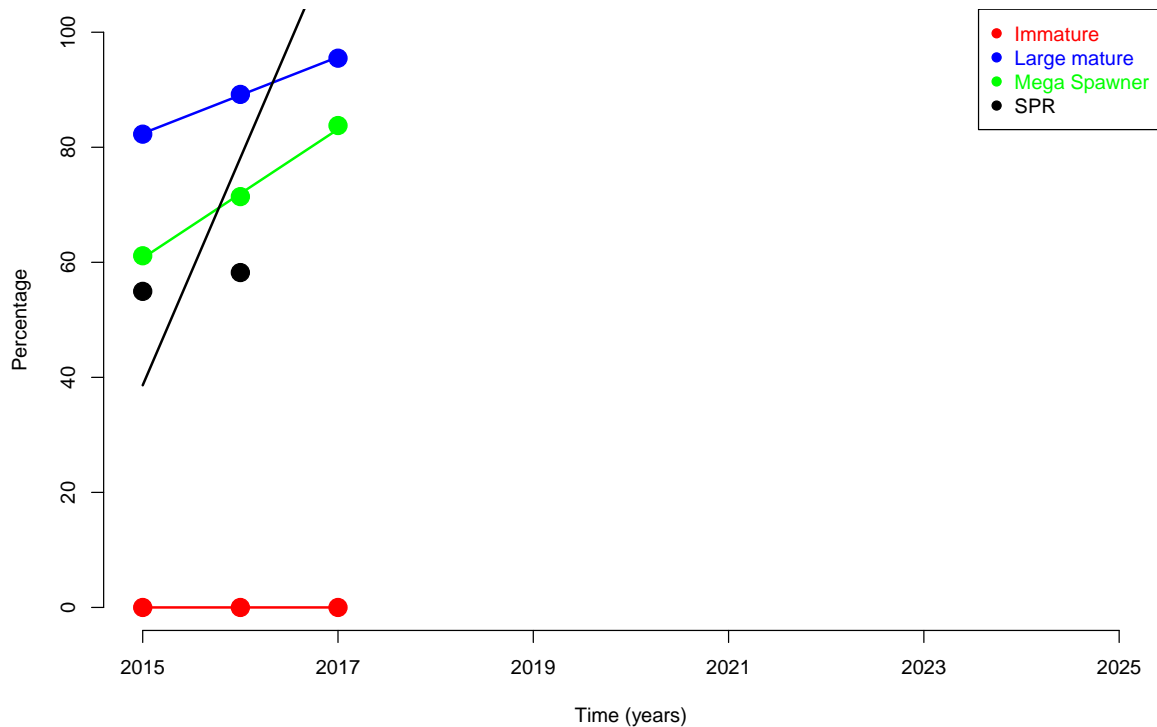
Longline – Trends by size group for *Gymnocranius grandoculis* (ID #71, Lethrinidae)

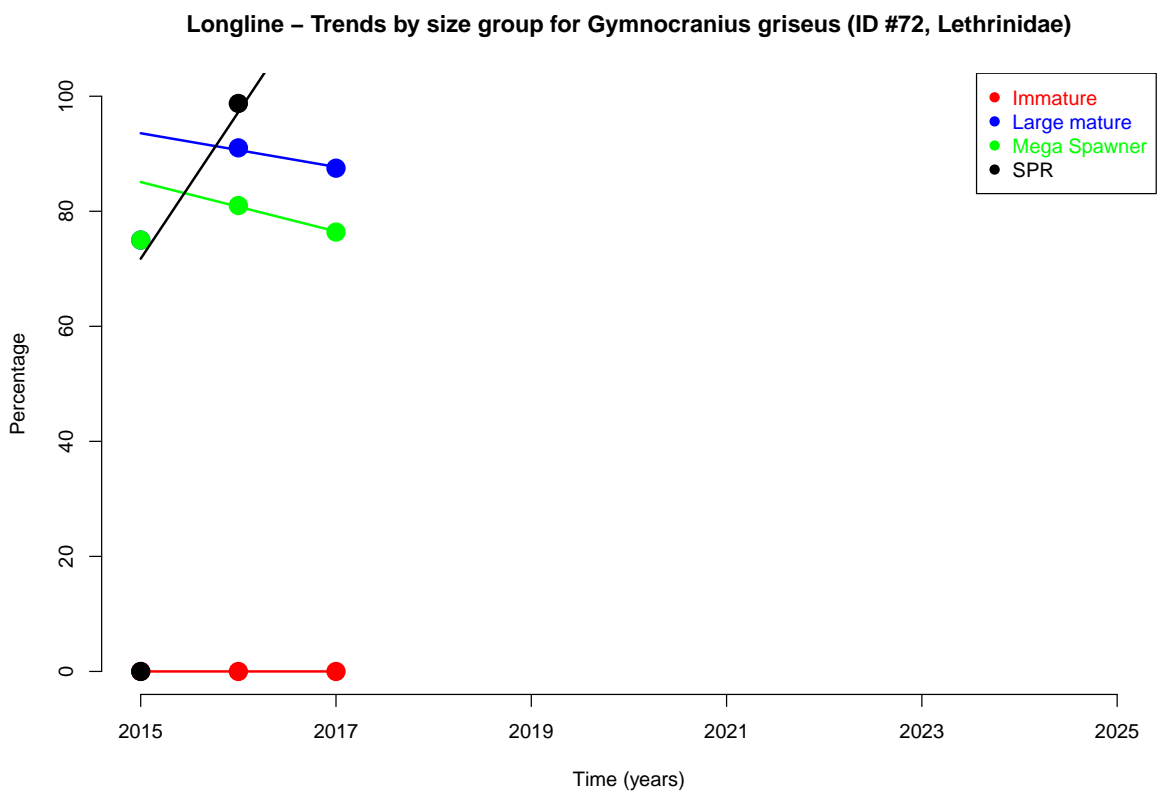
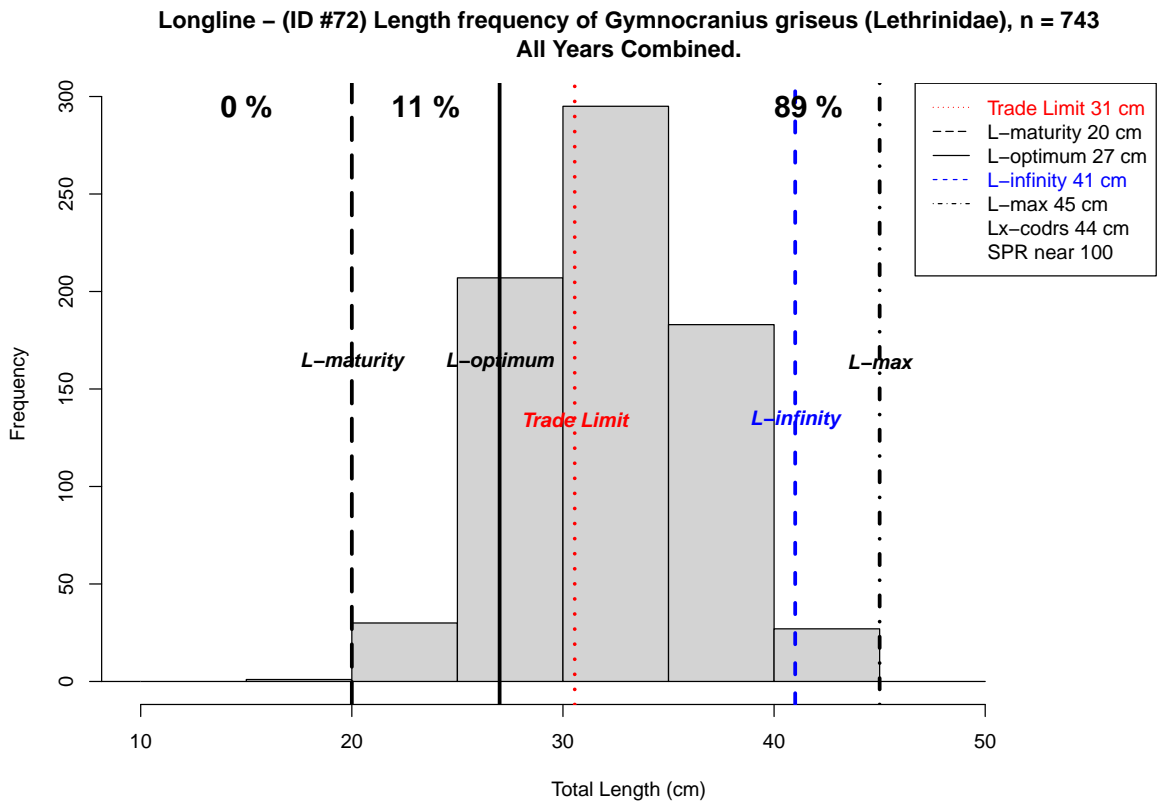


**Dropline – (ID #72) Length frequency of *Gymnocranius griseus* (Lethrinidae), n = 573
 All Years Combined.**

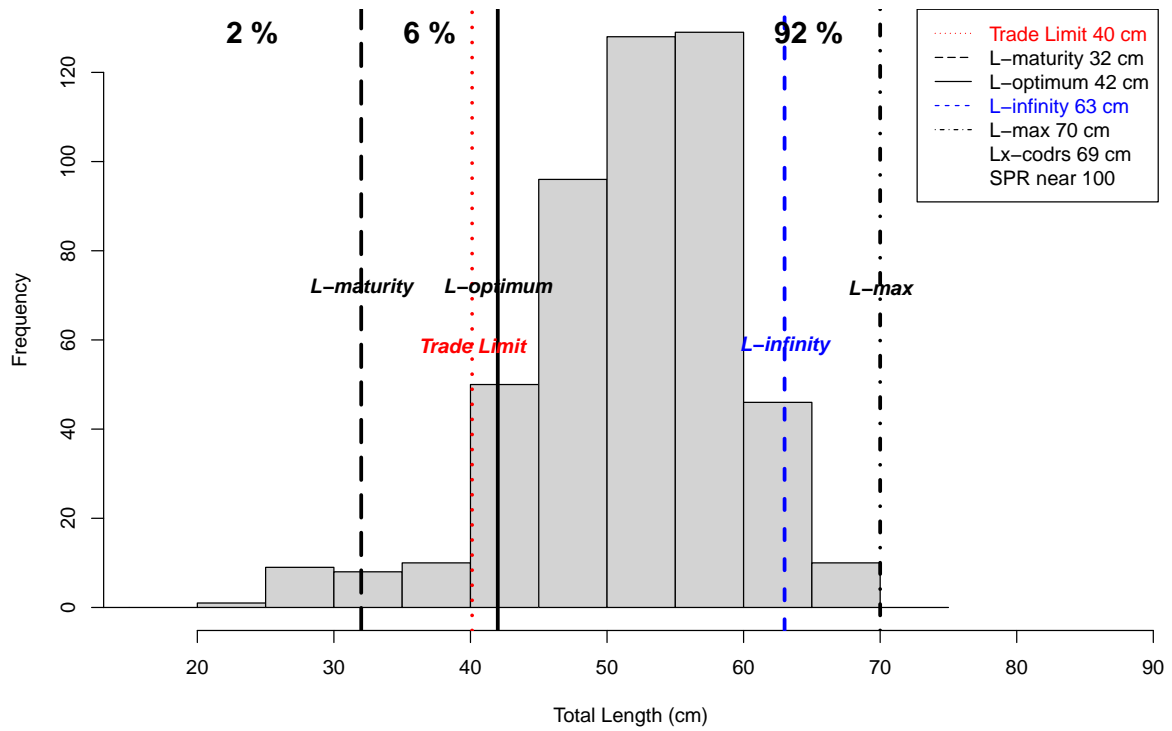


Dropline – Trends by size group for *Gymnocranius griseus* (ID #72, Lethrinidae)

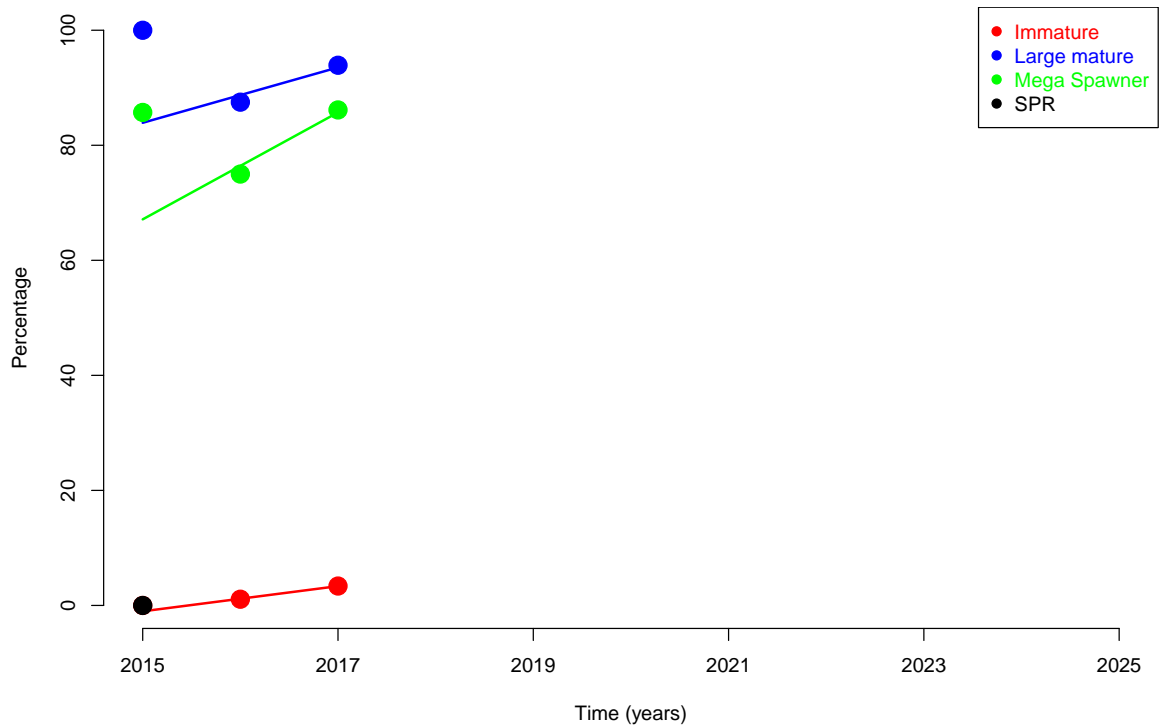




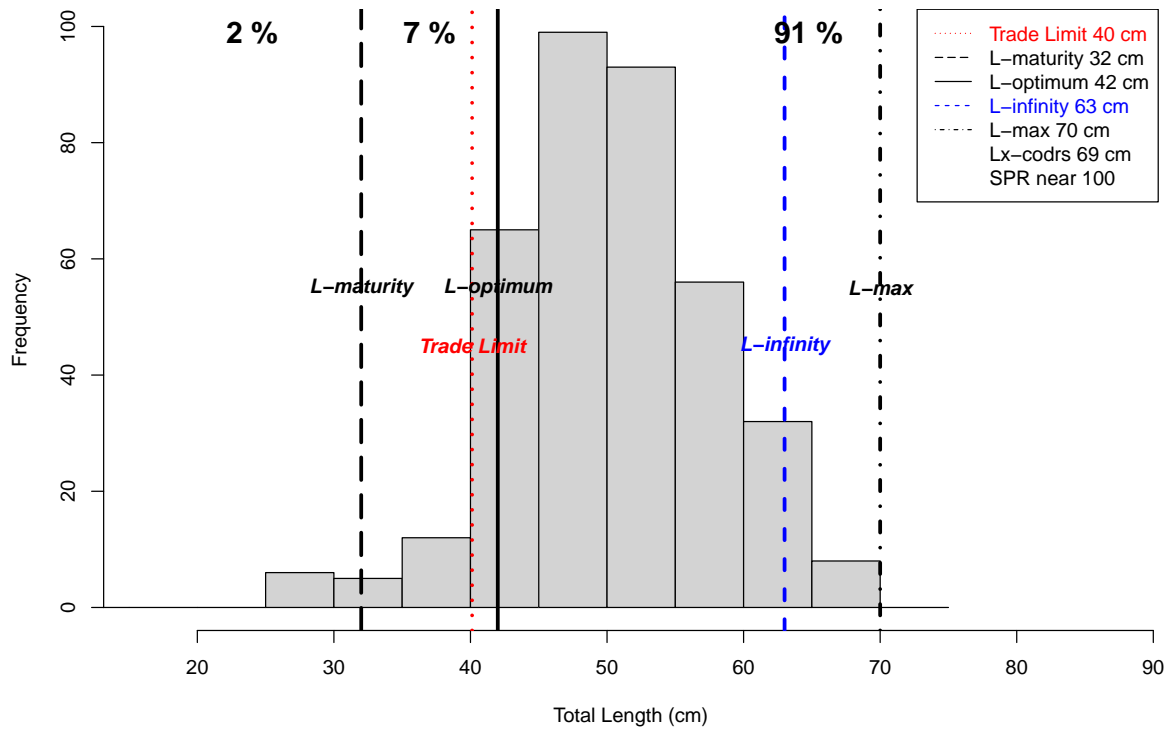
**Dropline – (ID #73) Length frequency of *Carangoides coeruleopinnatus* (Carangidae), n = 487
 All Years Combined.**



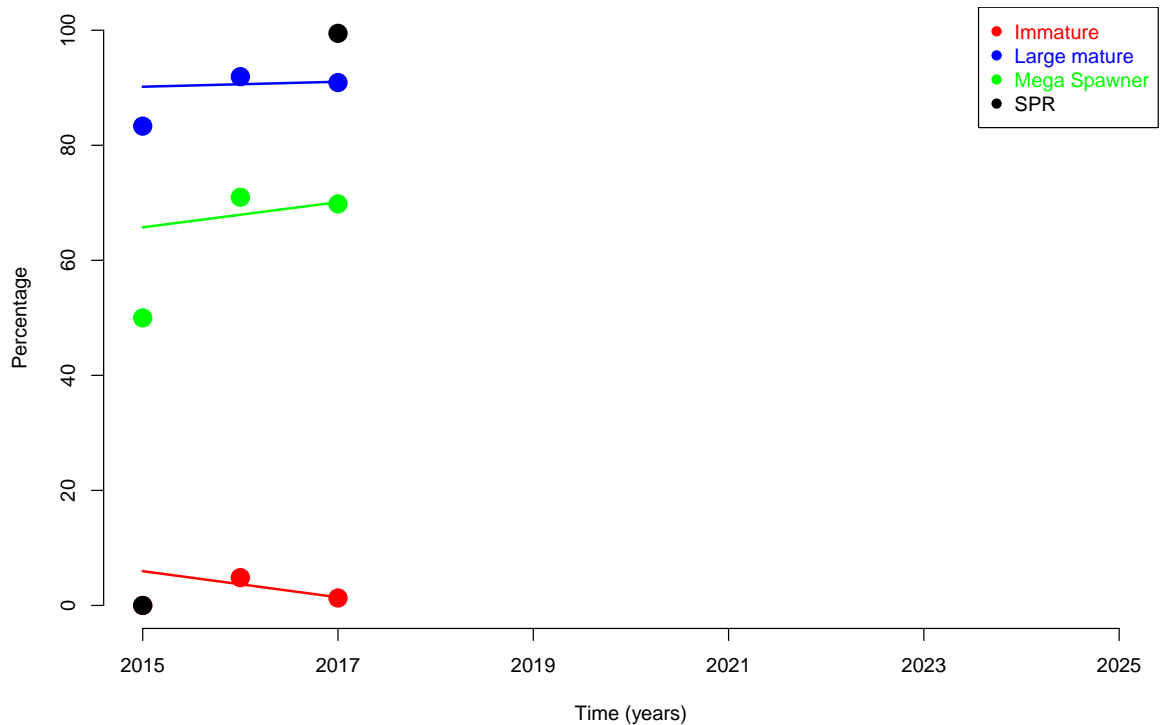
Dropline – Trends by size group for *Carangoides coeruleopinnatus* (ID #73, Carangidae)



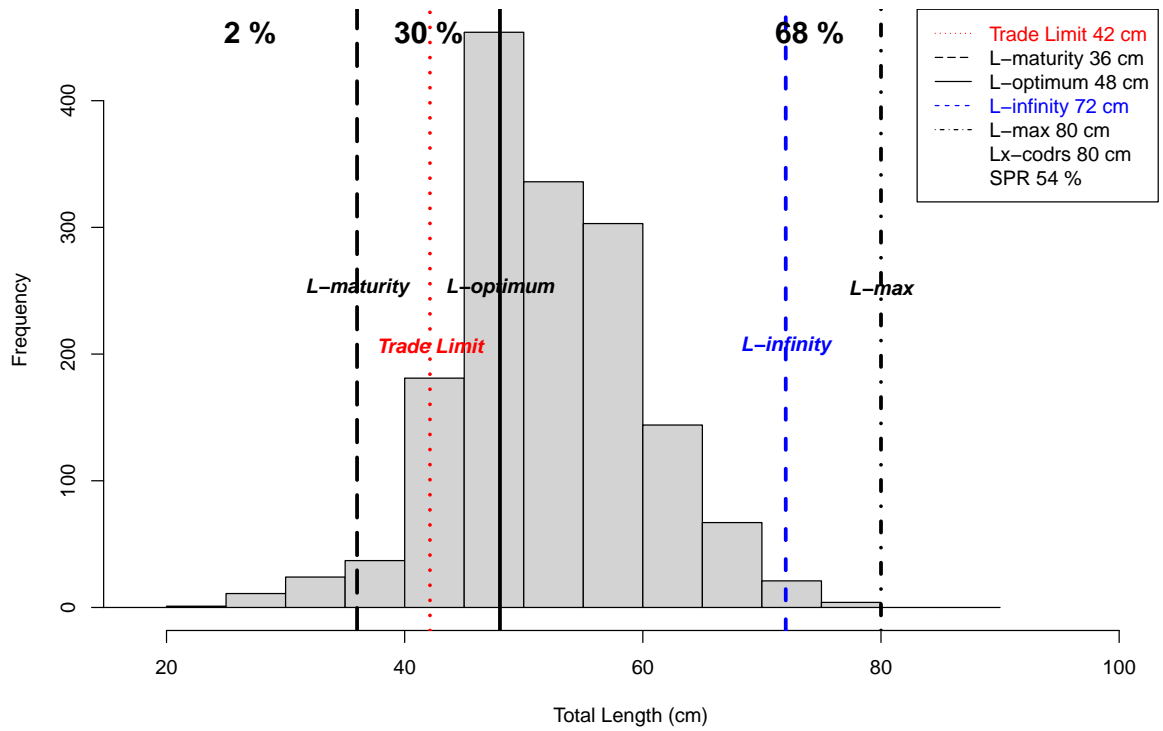
Longline – (ID #73) Length frequency of *Carangoides coeruleopinnatus* (Carangidae), n = 376
 All Years Combined.



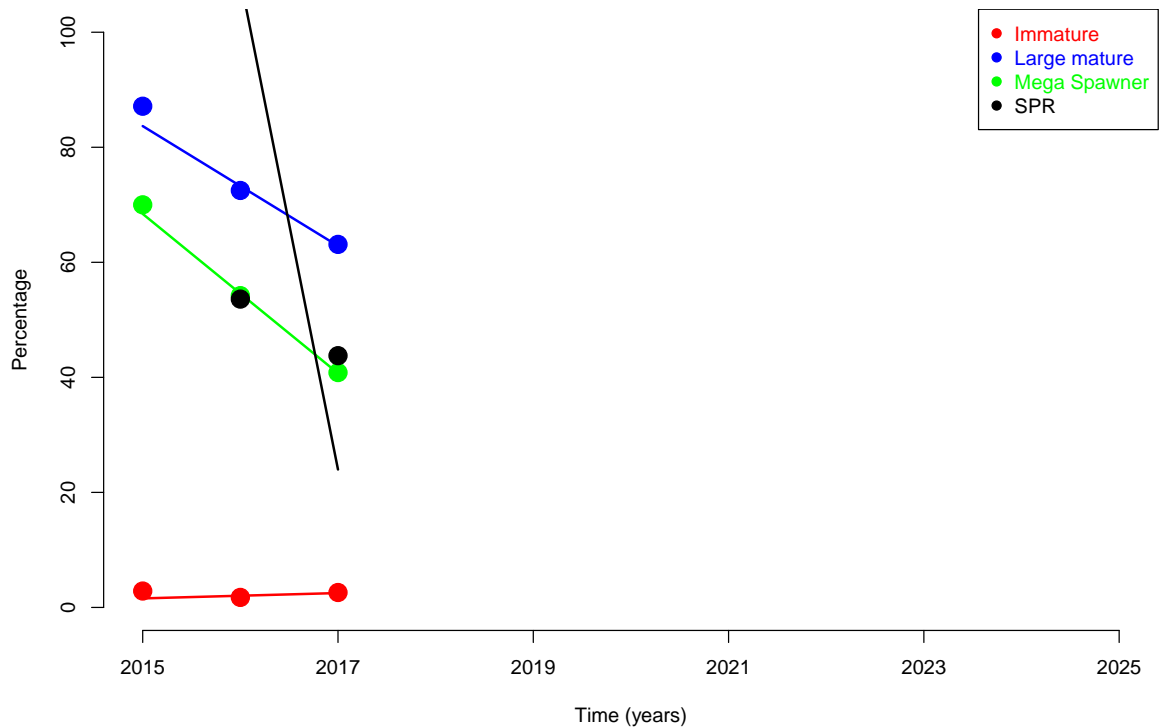
Longline – Trends by size group for *Carangoides coeruleopinnatus* (ID #73, Carangidae)

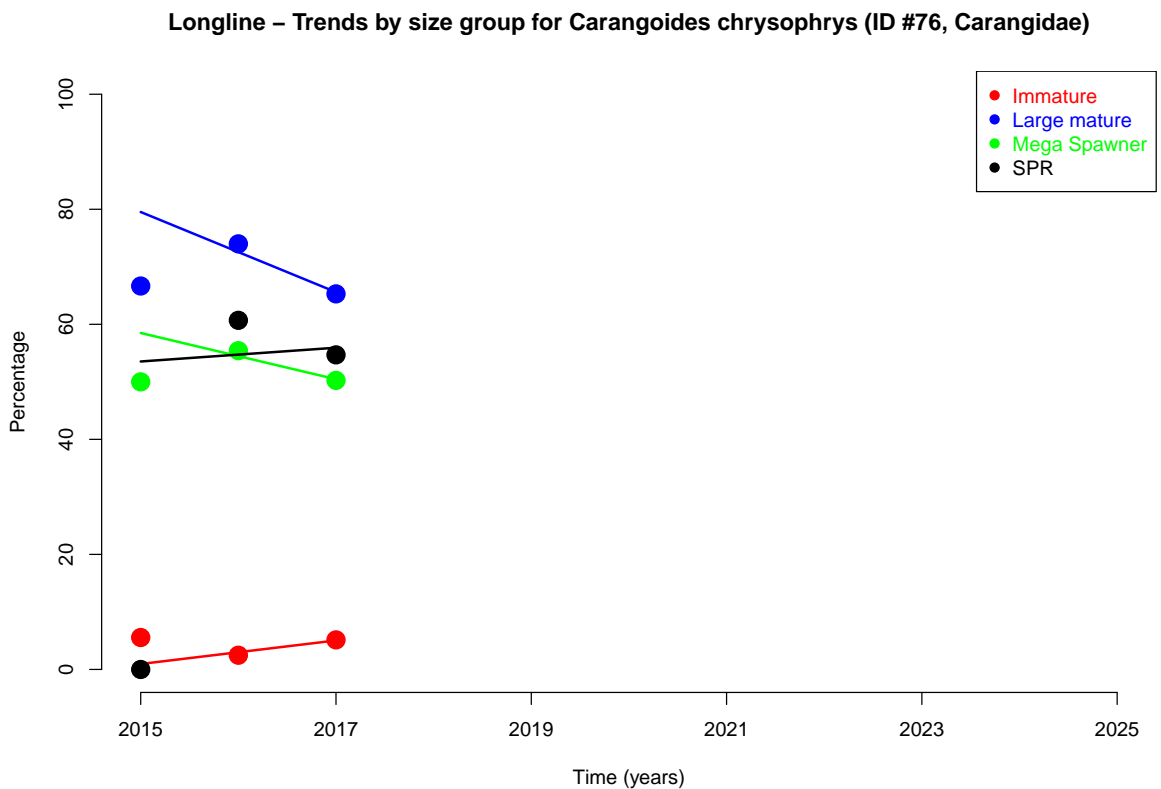
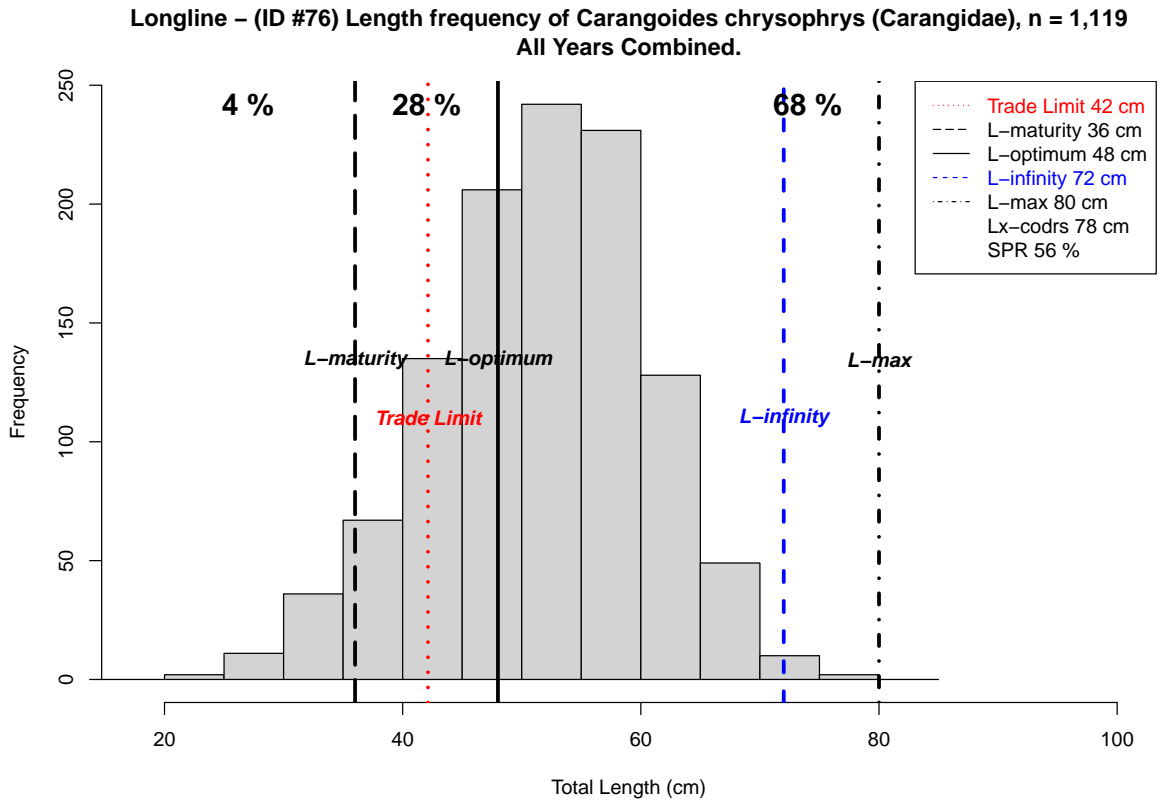


**Dropline – (ID #76) Length frequency of *Carangoides chrysophrys* (Carangidae), n = 1,583
 All Years Combined.**

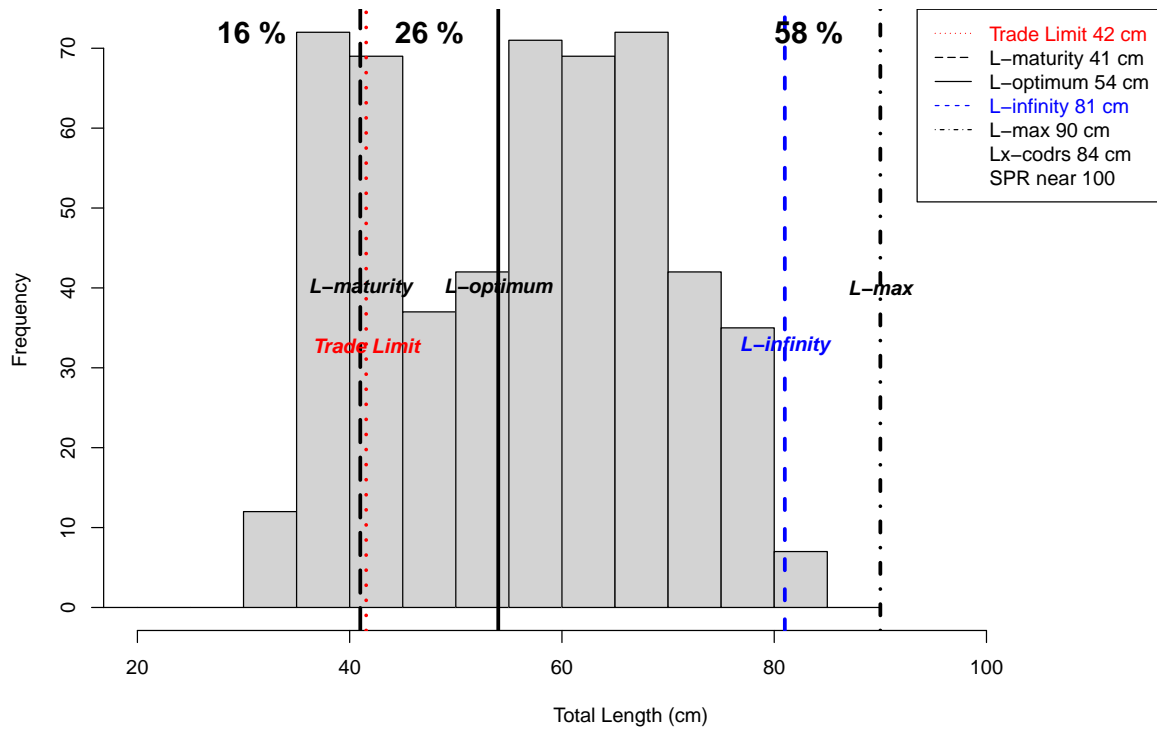


Dropline – Trends by size group for *Carangoides chrysophrys* (ID #76, Carangidae)

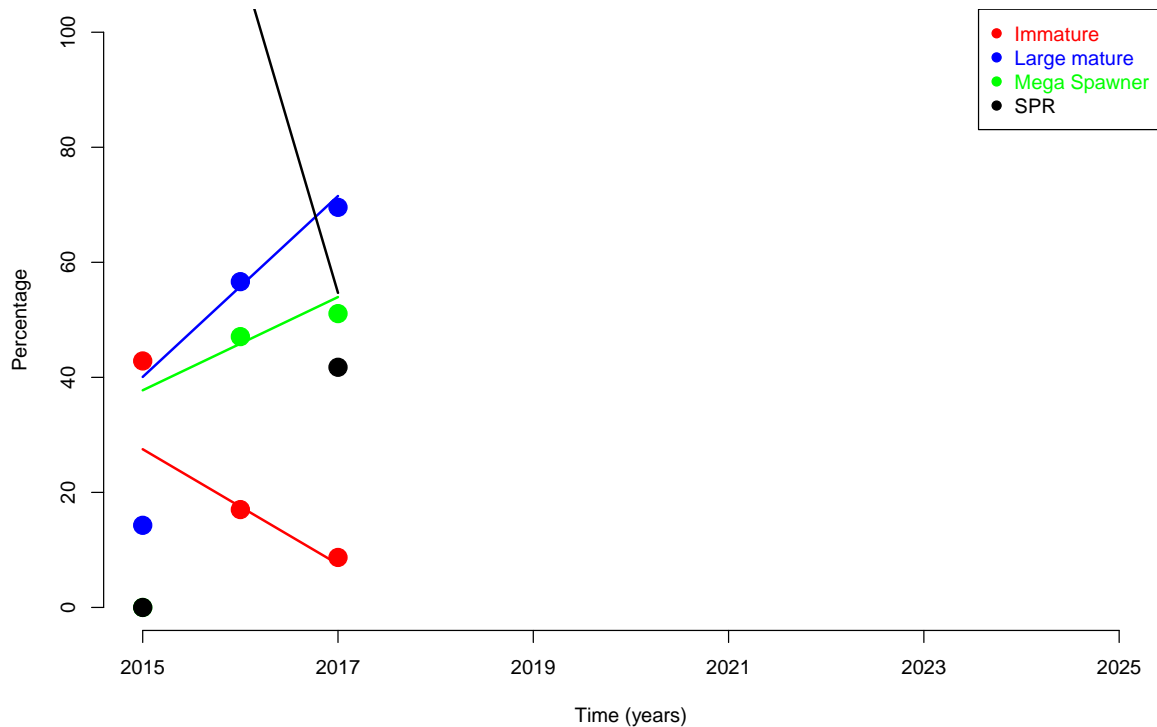




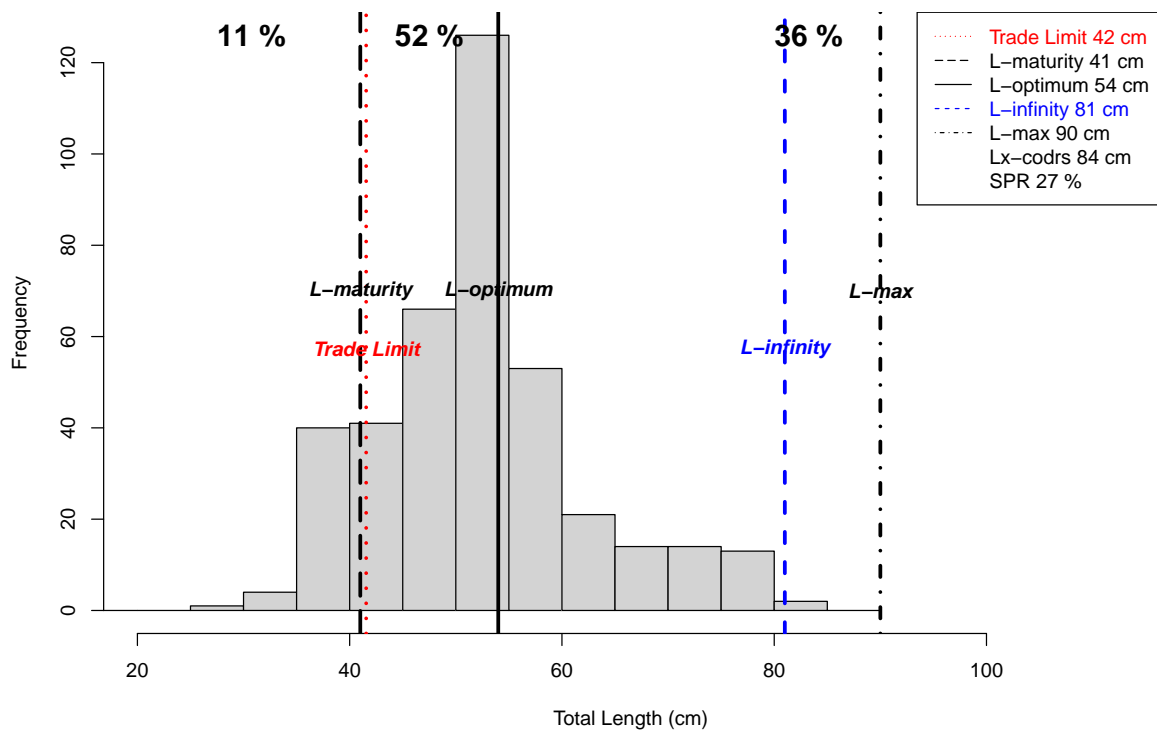
**Dropline – (ID #77) Length frequency of *Carangoides gymnostethus* (Carangidae), n = 528
 All Years Combined.**



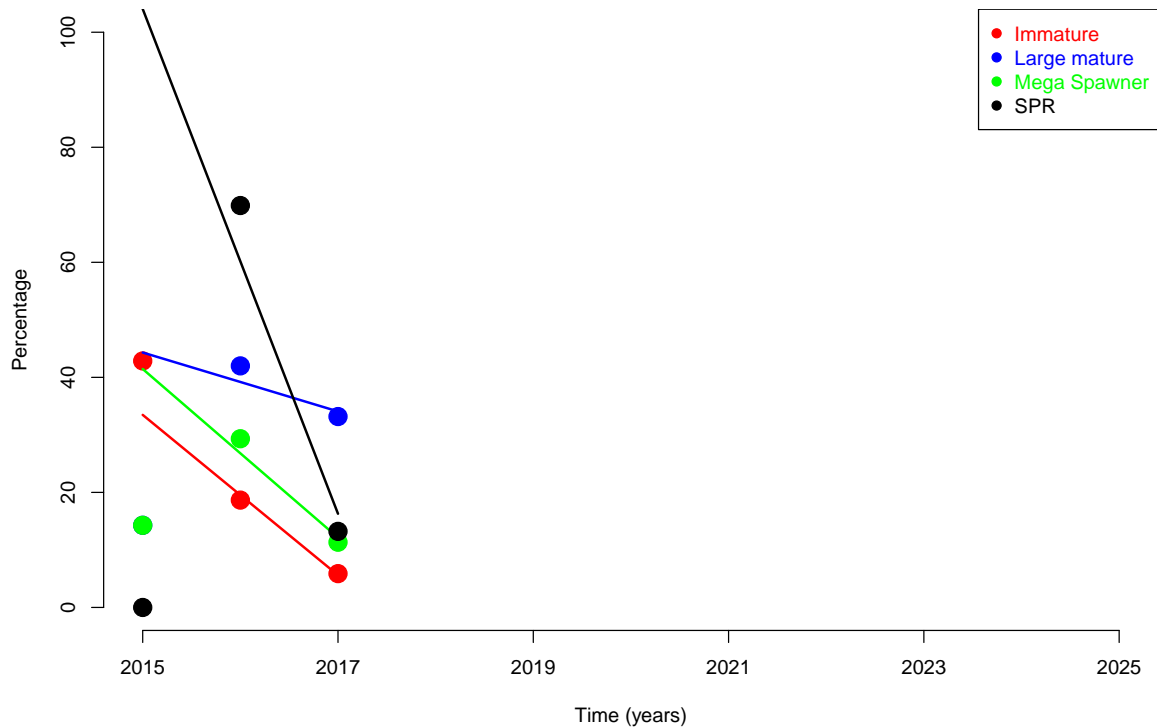
Dropline – Trends by size group for *Carangoides gymnostethus* (ID #77, Carangidae)



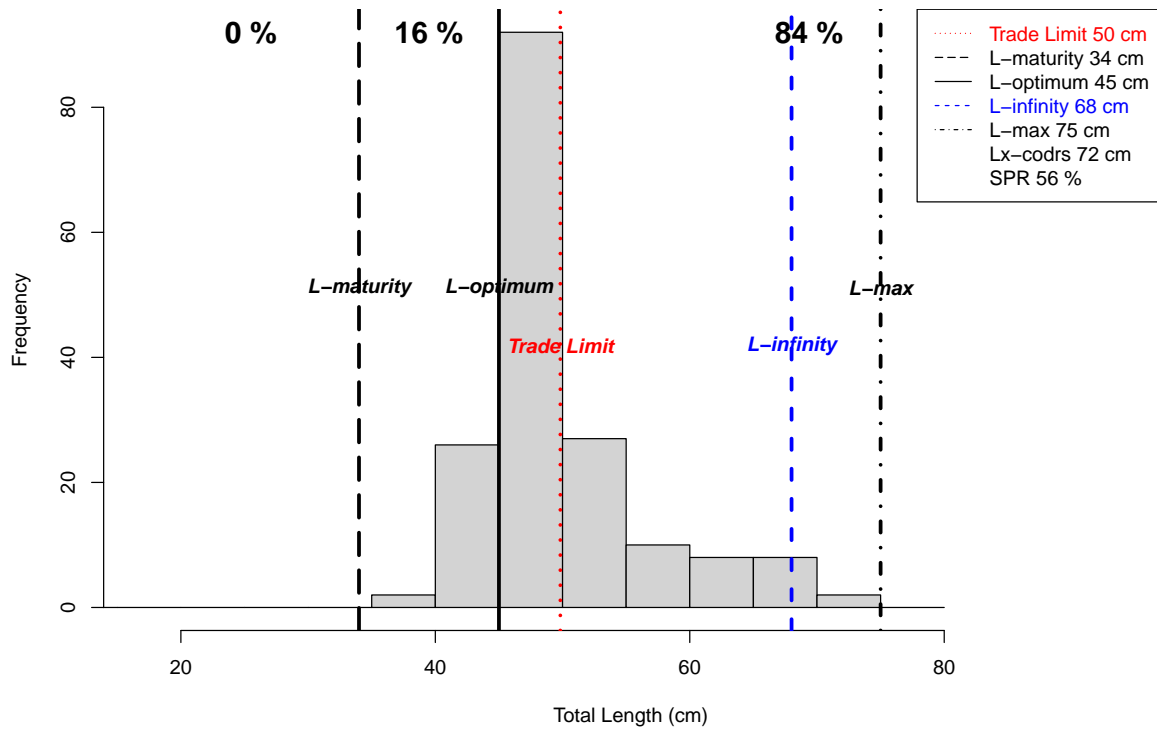
**Longline – (ID #77) Length frequency of *Carangoides gymnostethus* (Carangidae), n = 395
 All Years Combined.**



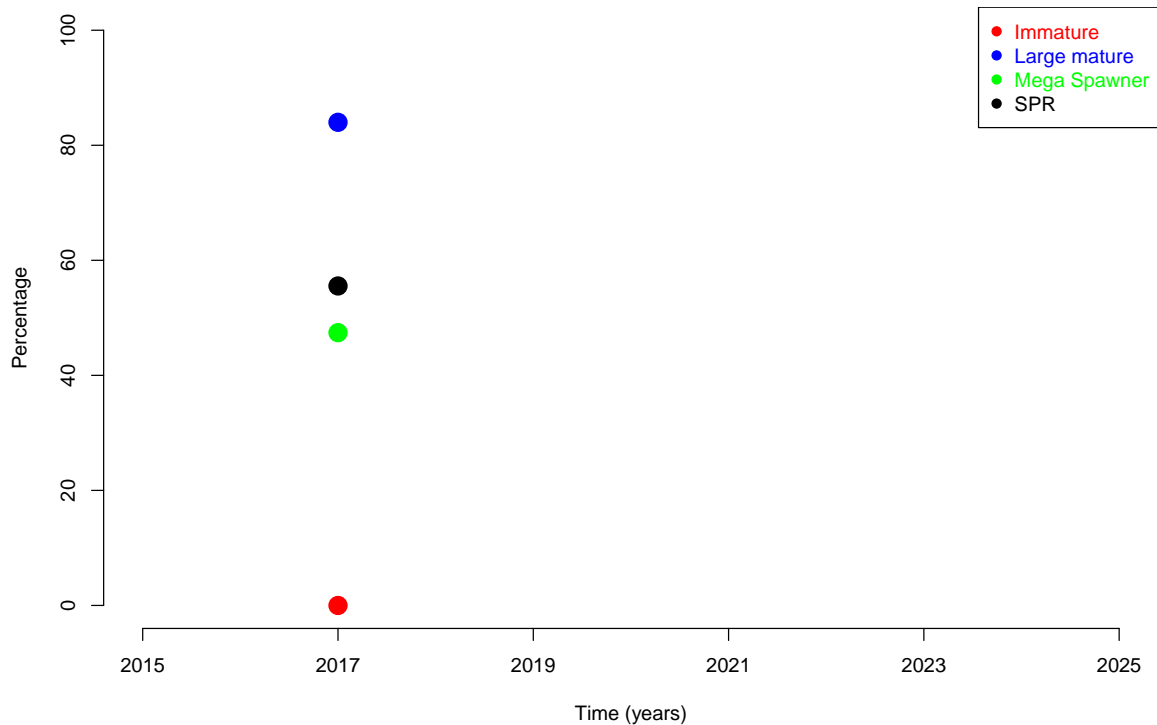
Longline – Trends by size group for *Carangoides gymnostethus* (ID #77, Carangidae)



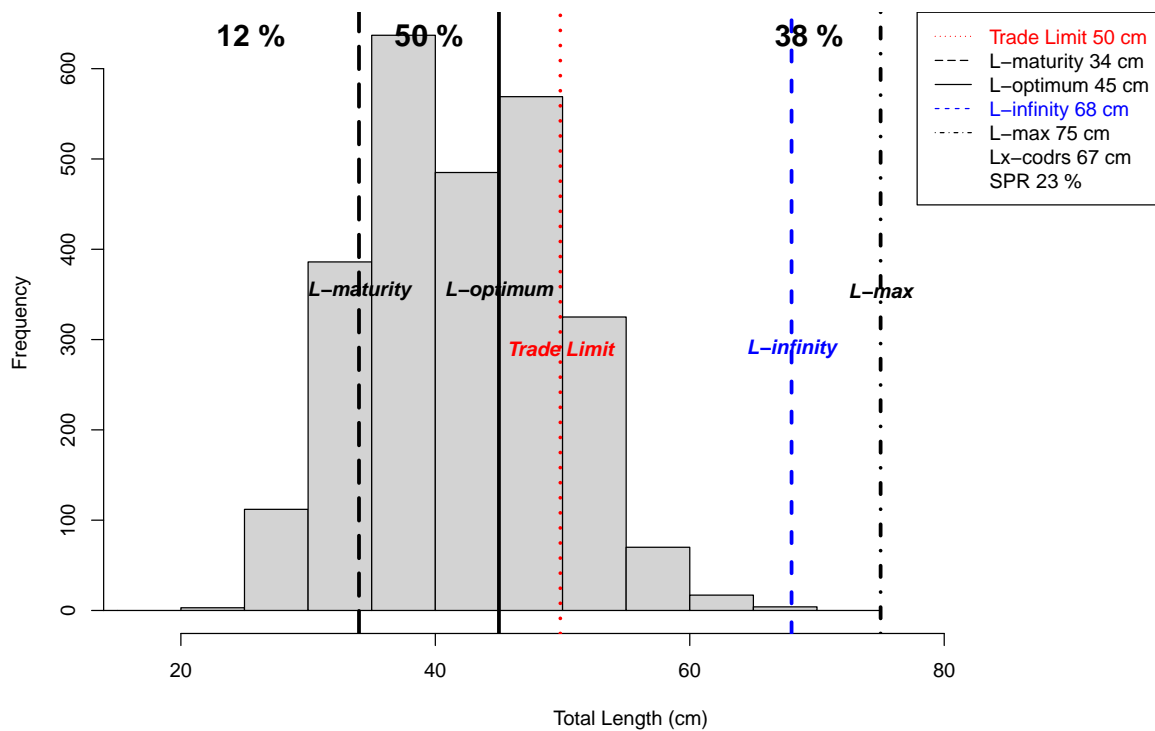
**Dropline – (ID #78) Length frequency of *Caranx bucculentus* (Carangidae), n = 175
 All Years Combined.**



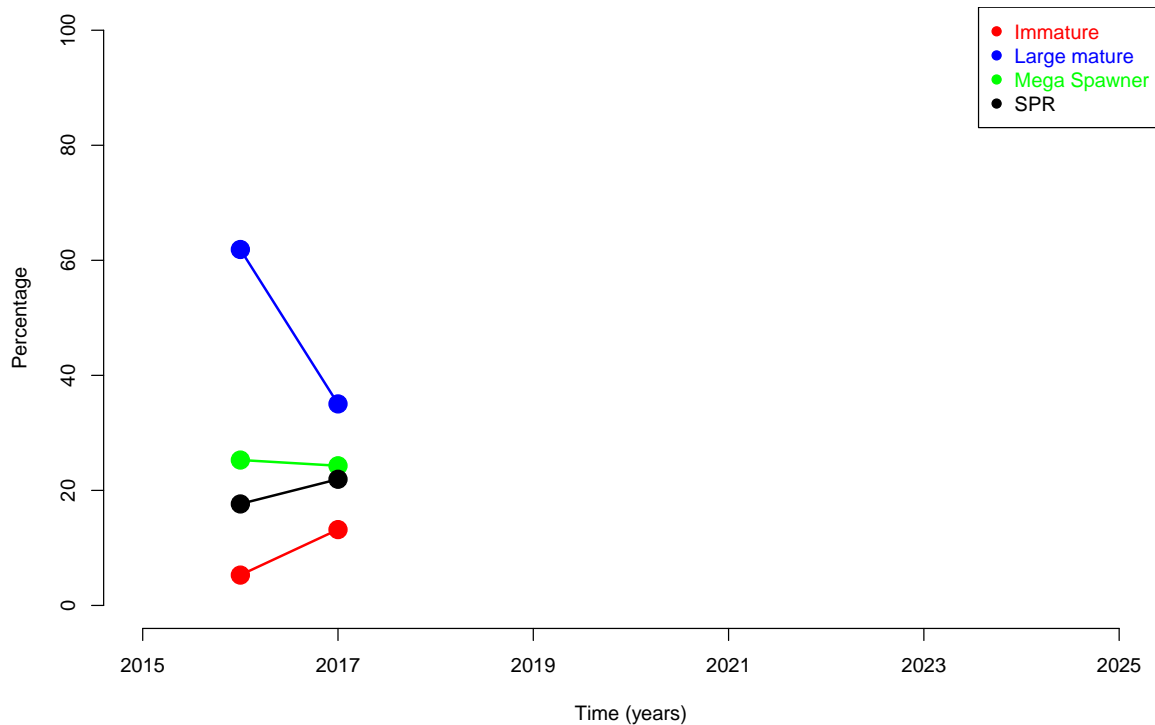
Dropline – Trends by size group for *Caranx bucculentus* (ID #78, Carangidae)



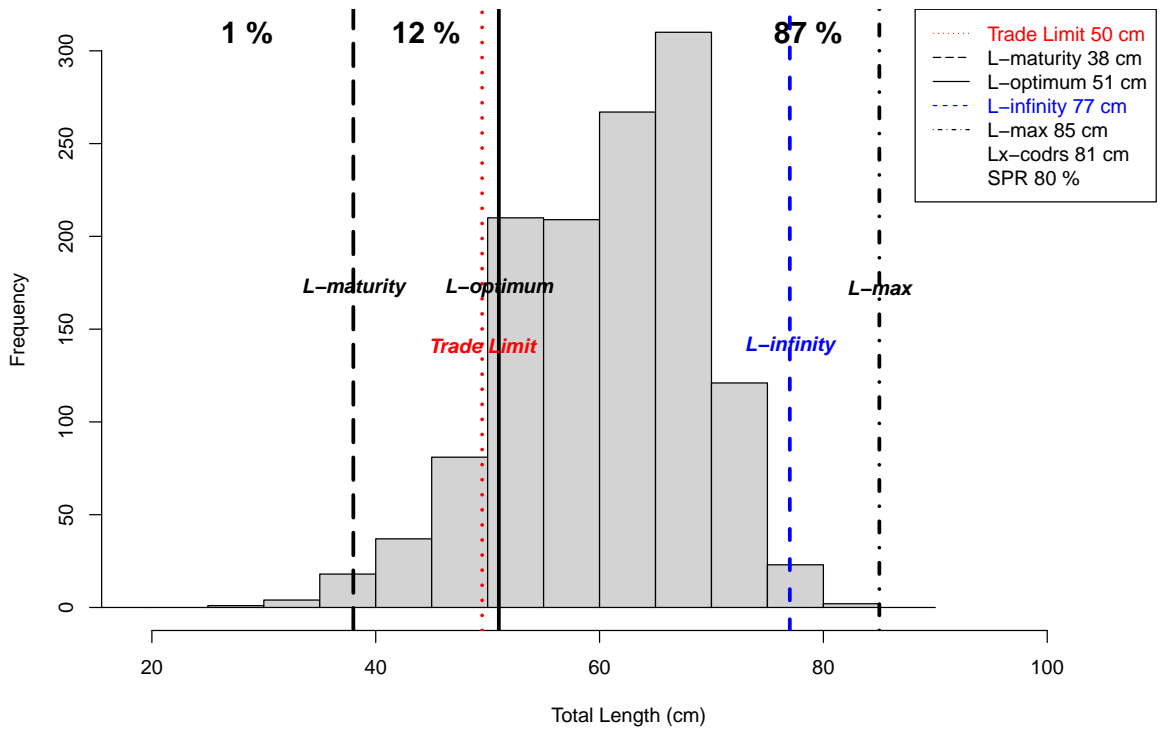
**Longline – (ID #78) Length frequency of *Caranx bucculentus* (Carangidae), n = 2,608
 All Years Combined.**



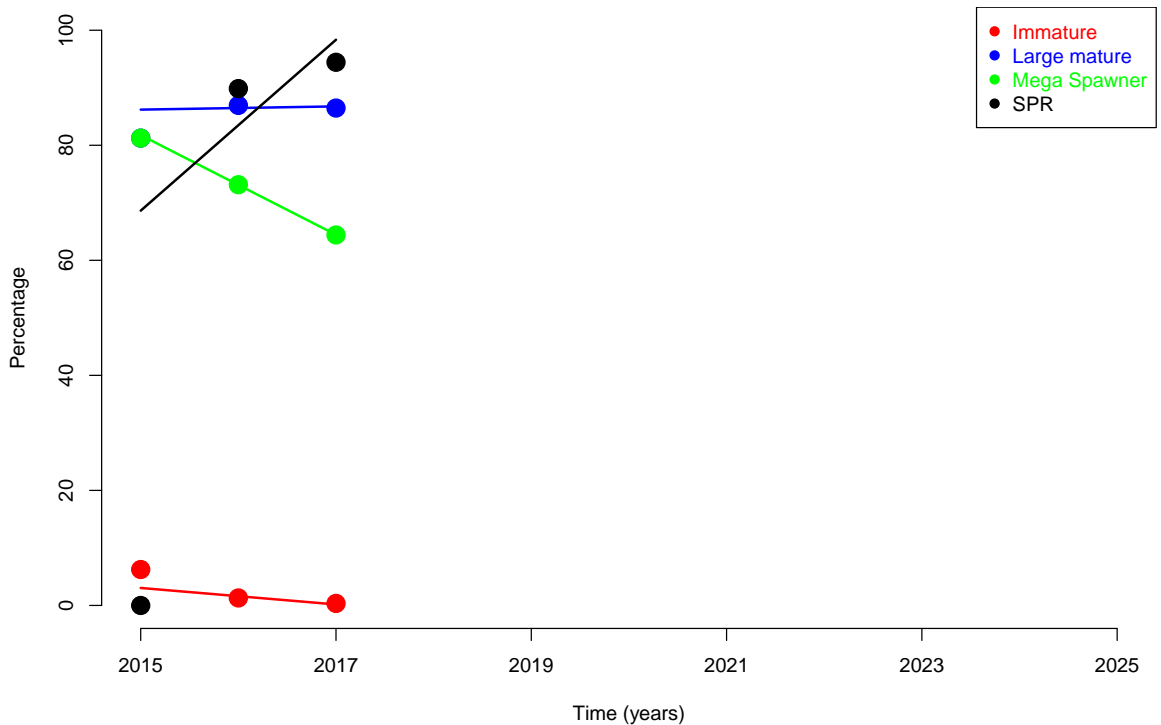
Longline – Trends by size group for *Caranx bucculentus* (ID #78, Carangidae)



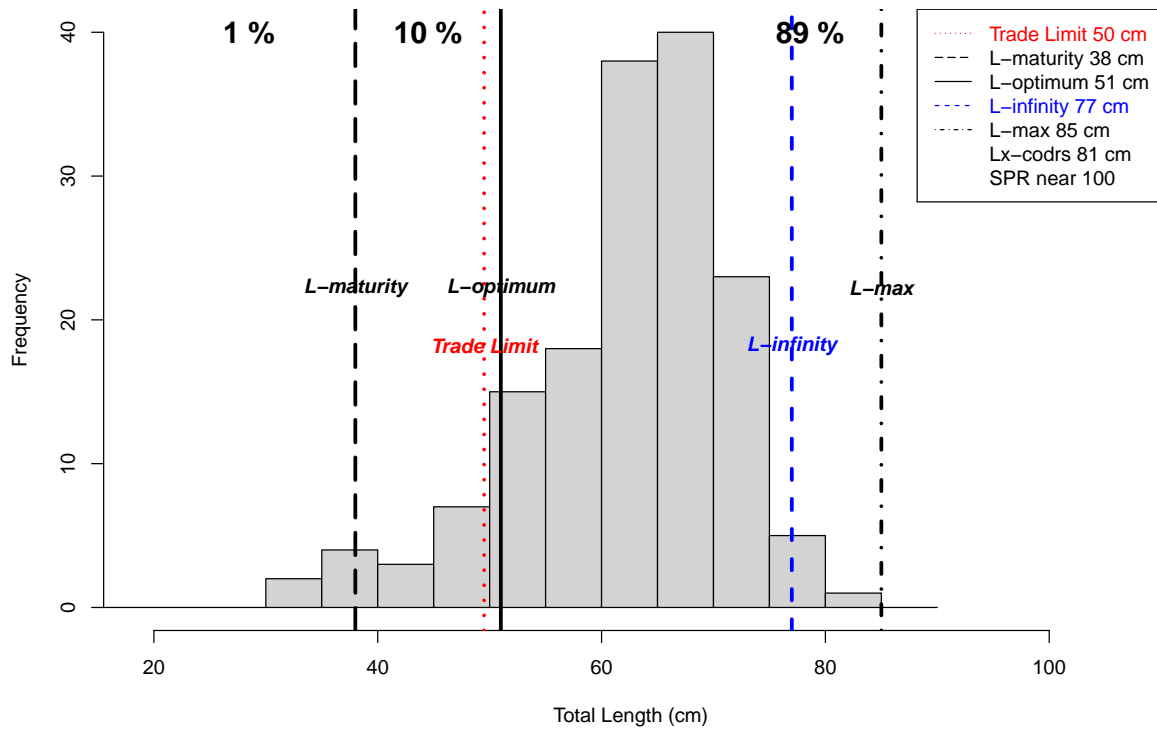
**Dropline – (ID #81) Length frequency of *Caranx sexfasciatus* (Carangidae), n = 1,283
 All Years Combined.**



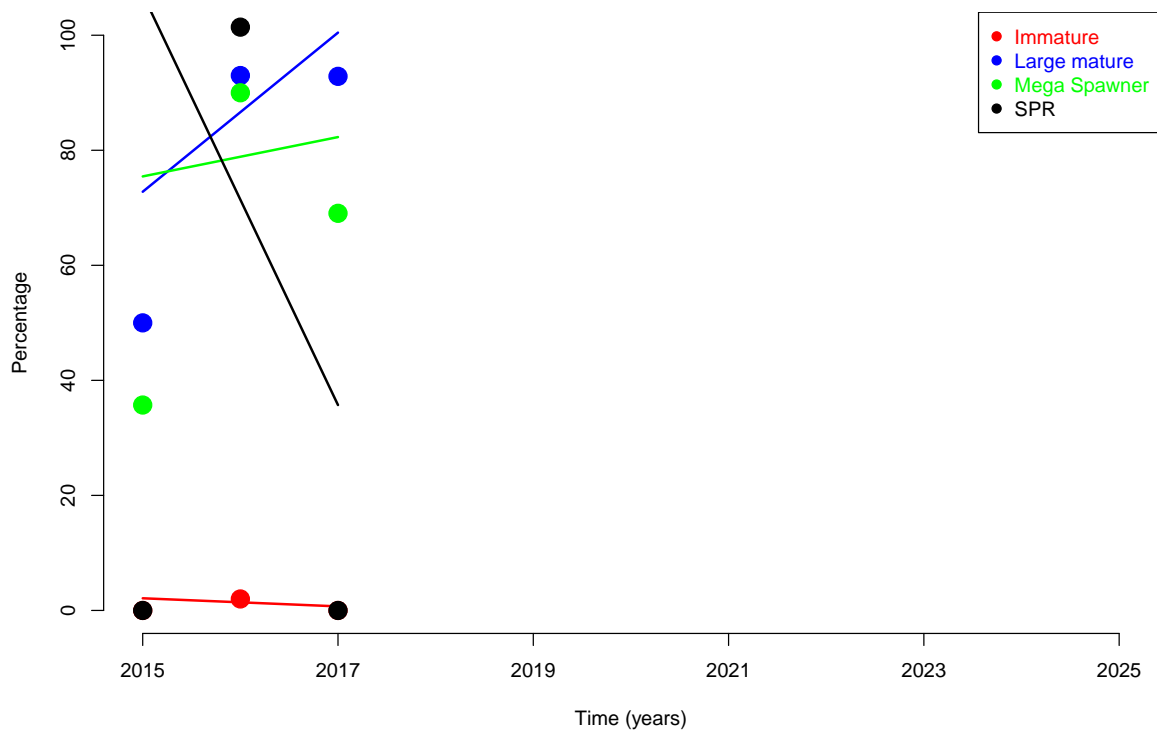
Dropline – Trends by size group for *Caranx sexfasciatus* (ID #81, Carangidae)



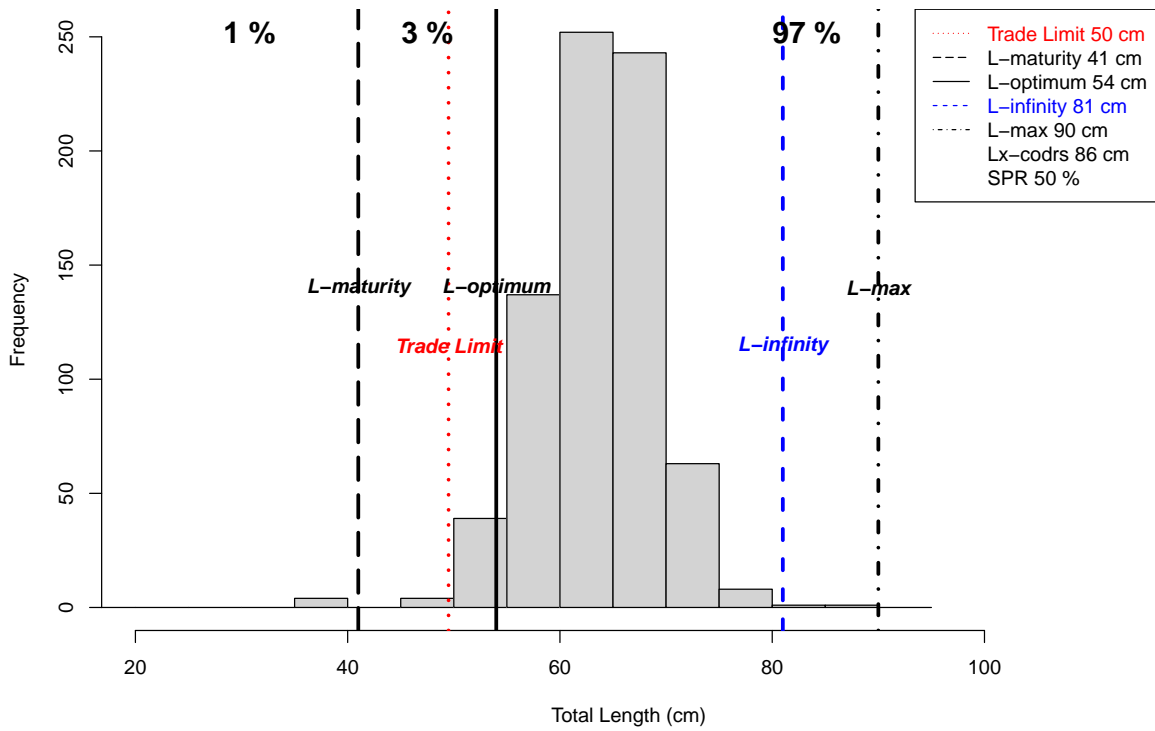
Longline – (ID #81) Length frequency of *Caranx sexfasciatus* (Carangidae), n = 156
 All Years Combined.



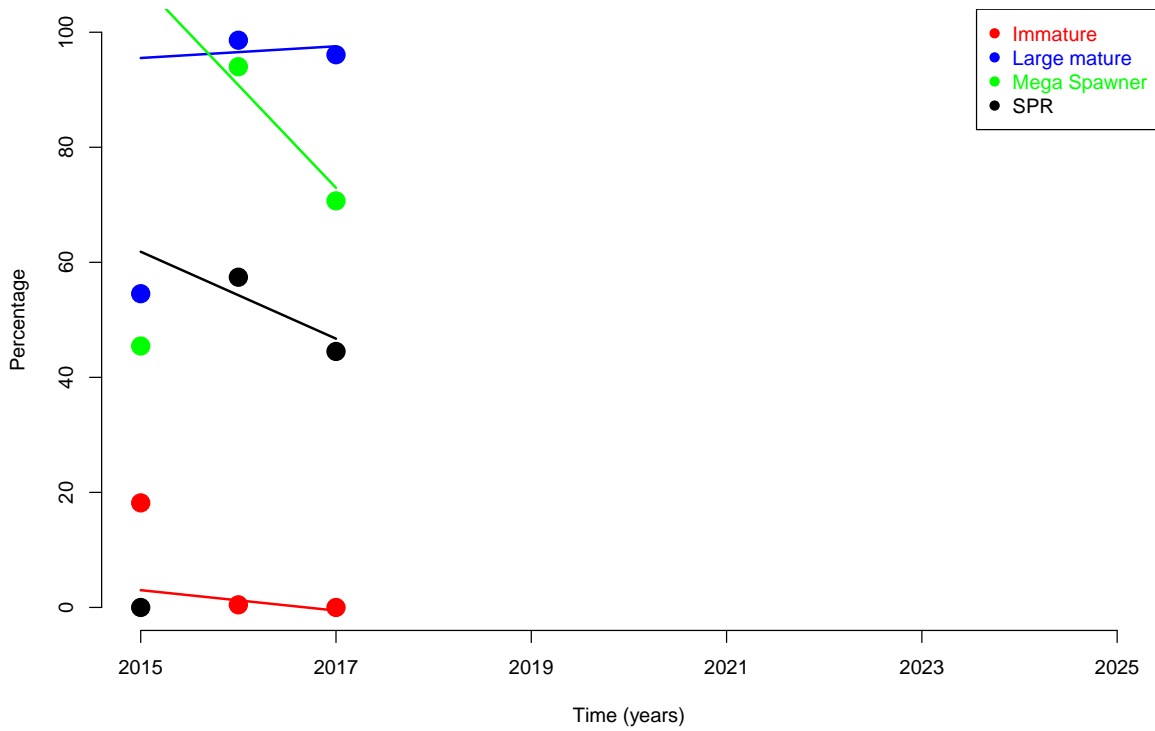
Longline – Trends by size group for *Caranx sexfasciatus* (ID #81, Carangidae)



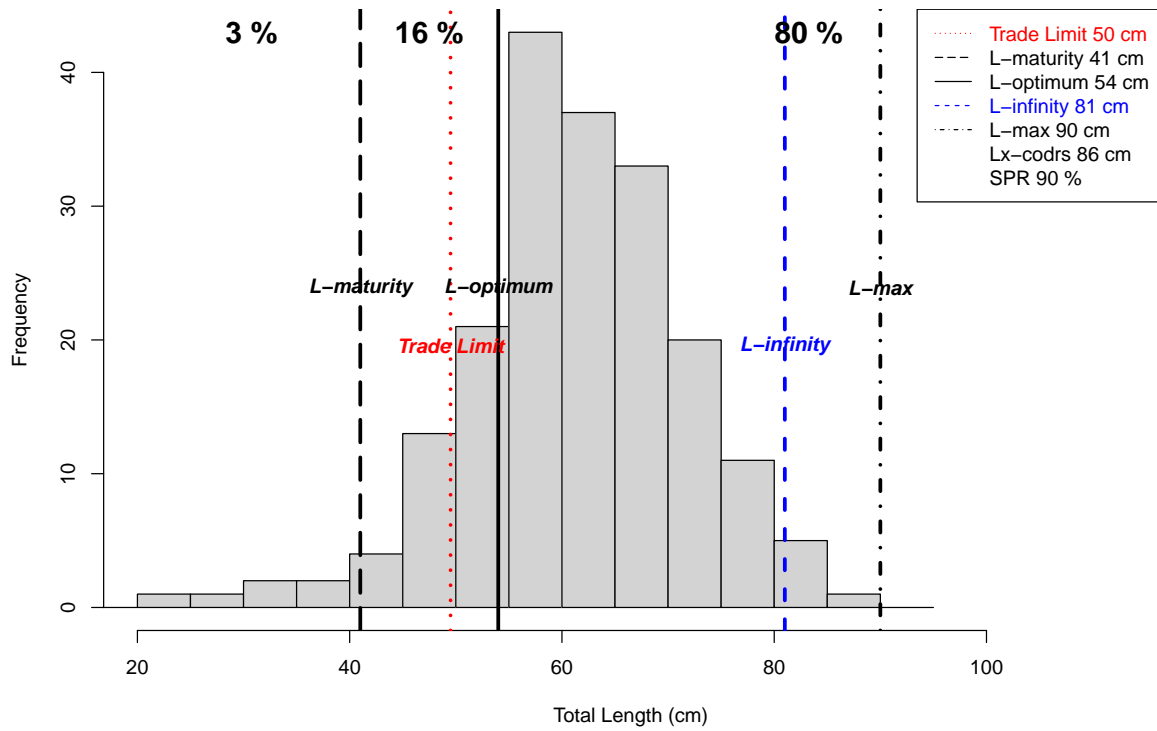
**Dropline – (ID #82) Length frequency of *Caranx tille* (Carangidae), n = 752
 All Years Combined.**



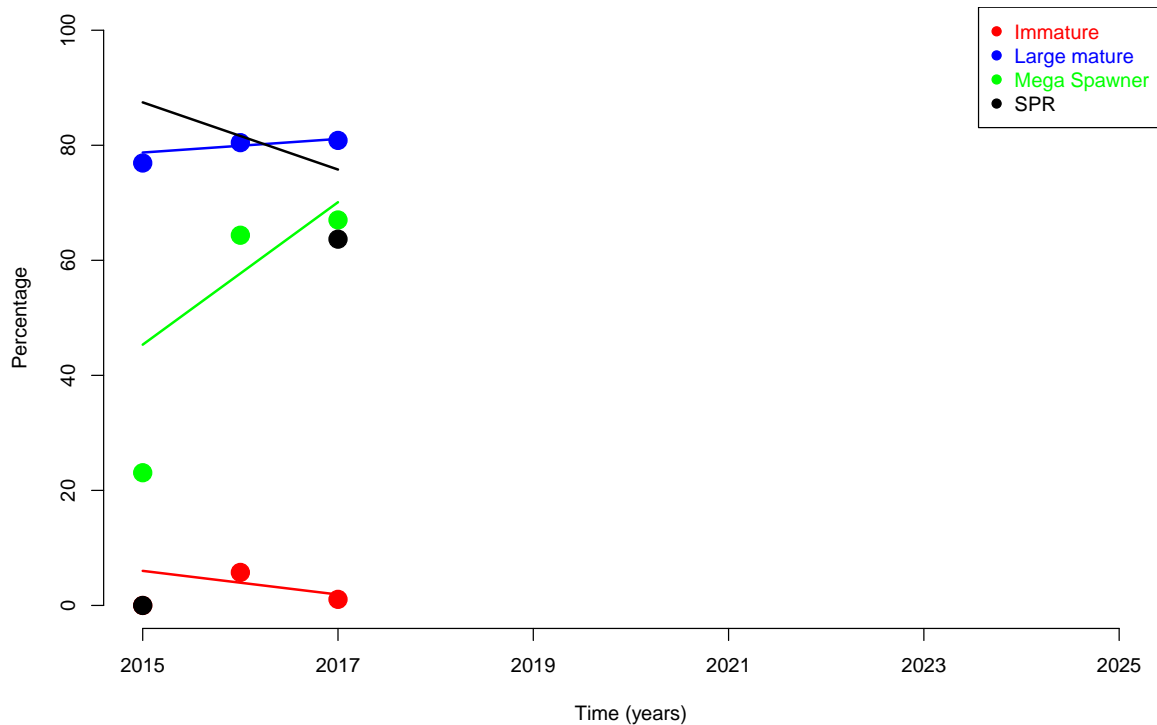
Dropline – Trends by size group for *Caranx tille* (ID #82, Carangidae)



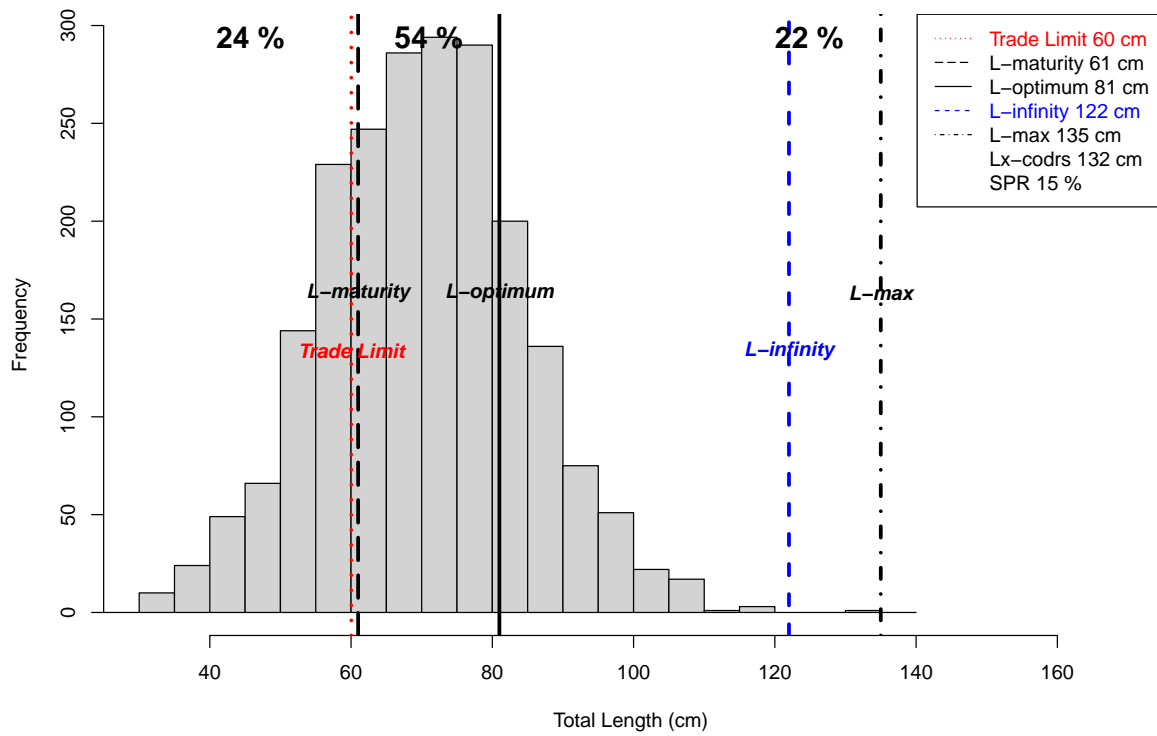
Longline – (ID #82) Length frequency of *Caranx tille* (Carangidae), n = 194
 All Years Combined.



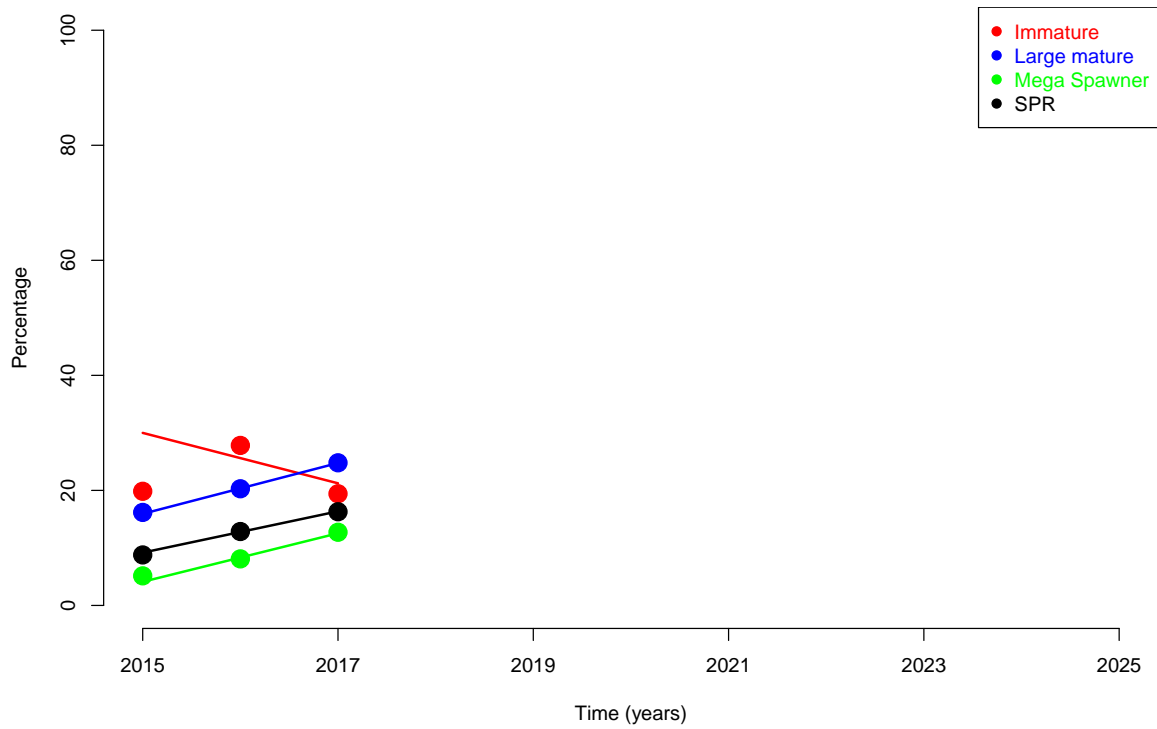
Longline – Trends by size group for *Caranx tille* (ID #82, Carangidae)



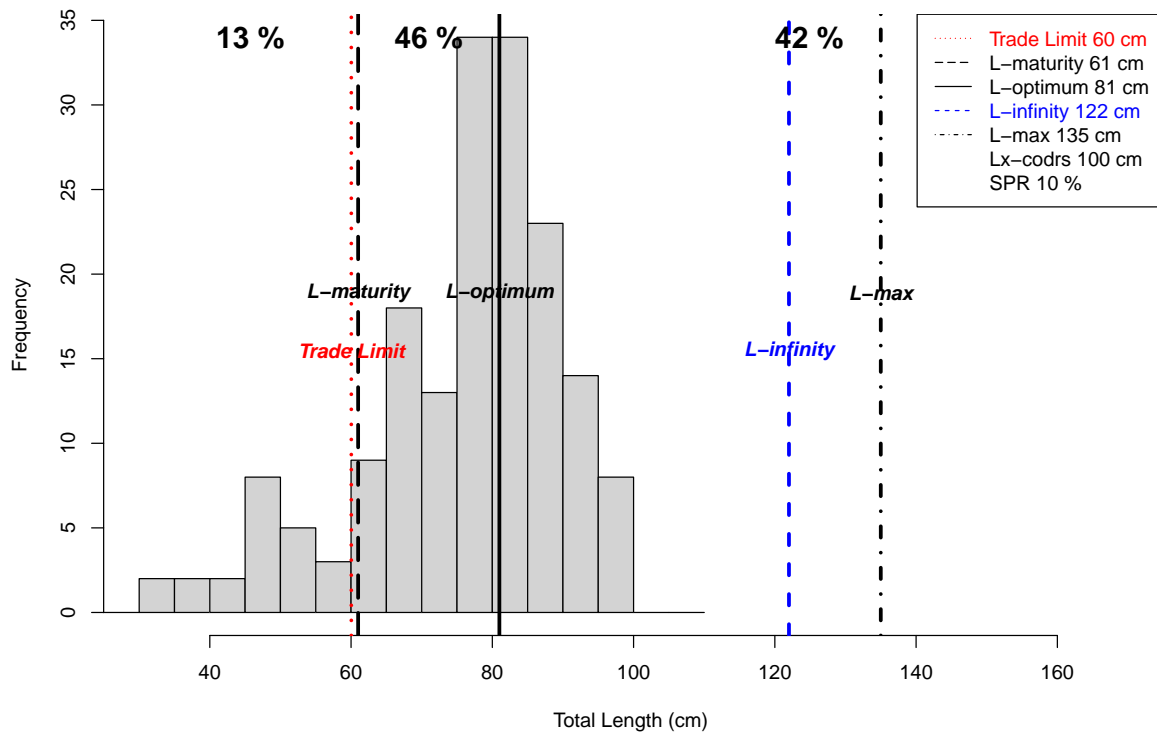
**Dropline – (ID #85) Length frequency of *Seriola rivoliana* (Carangidae), n = 2,145
 All Years Combined.**



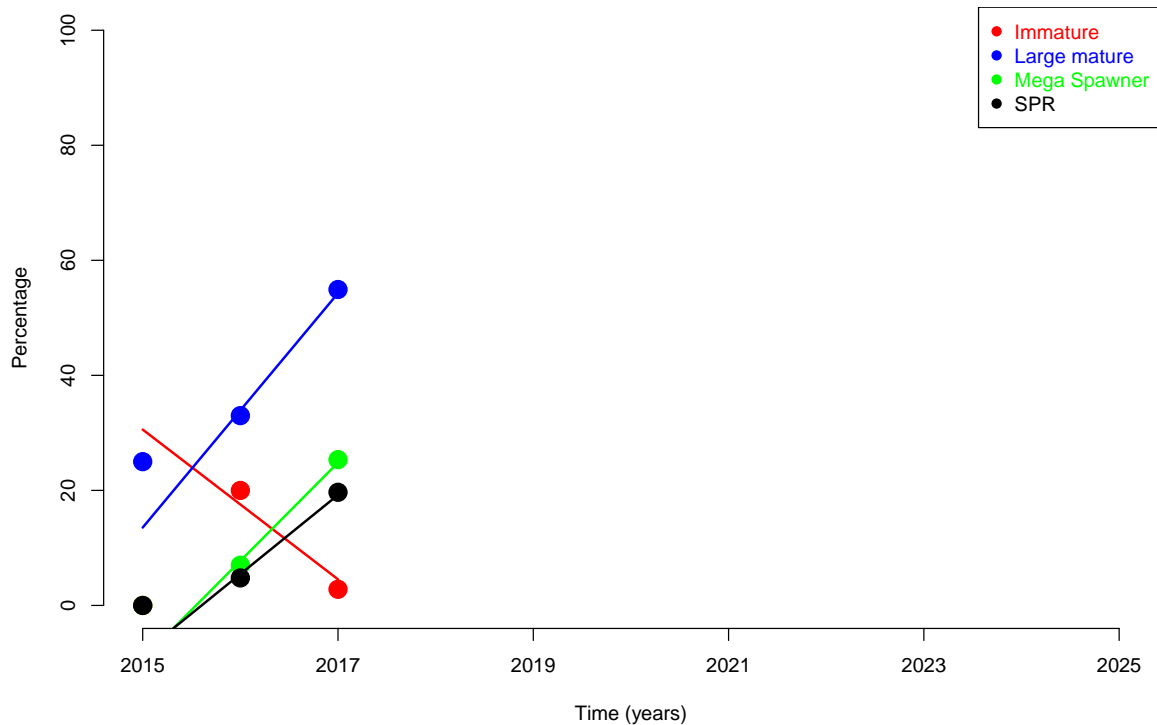
Dropline – Trends by size group for *Seriola rivoliana* (ID #85, Carangidae)



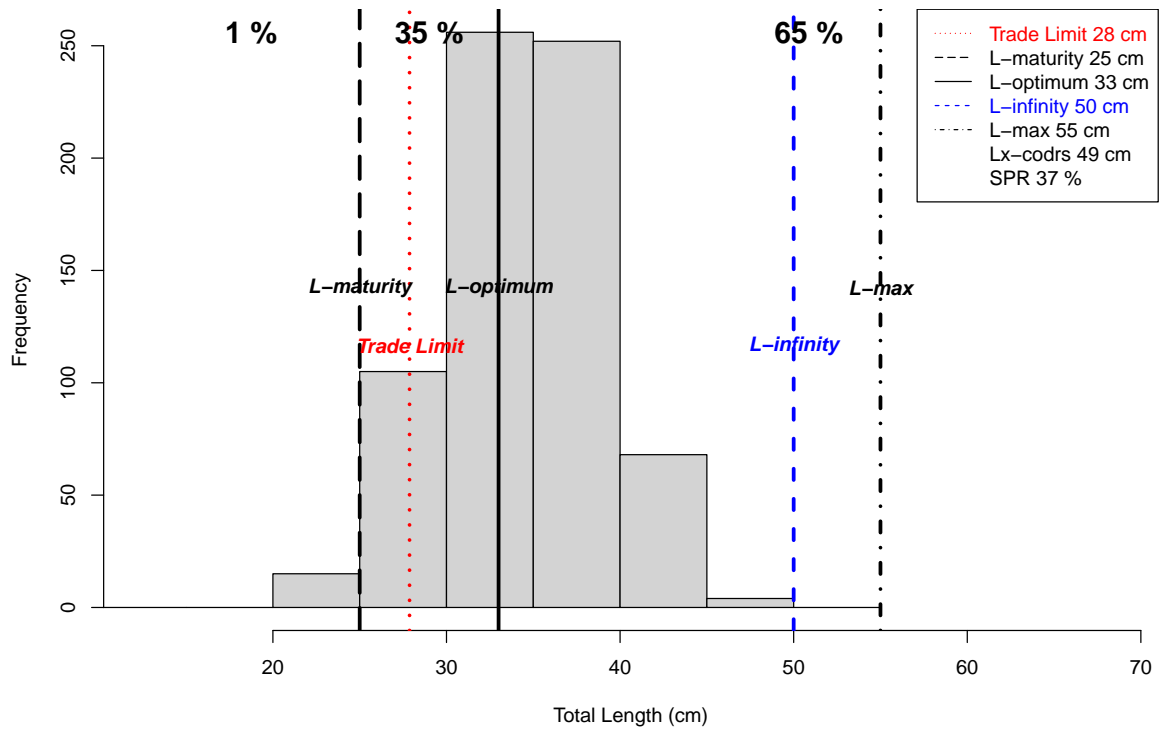
Longline – (ID #85) Length frequency of *Seriola rivoliana* (Carangidae), n = 175
 All Years Combined.



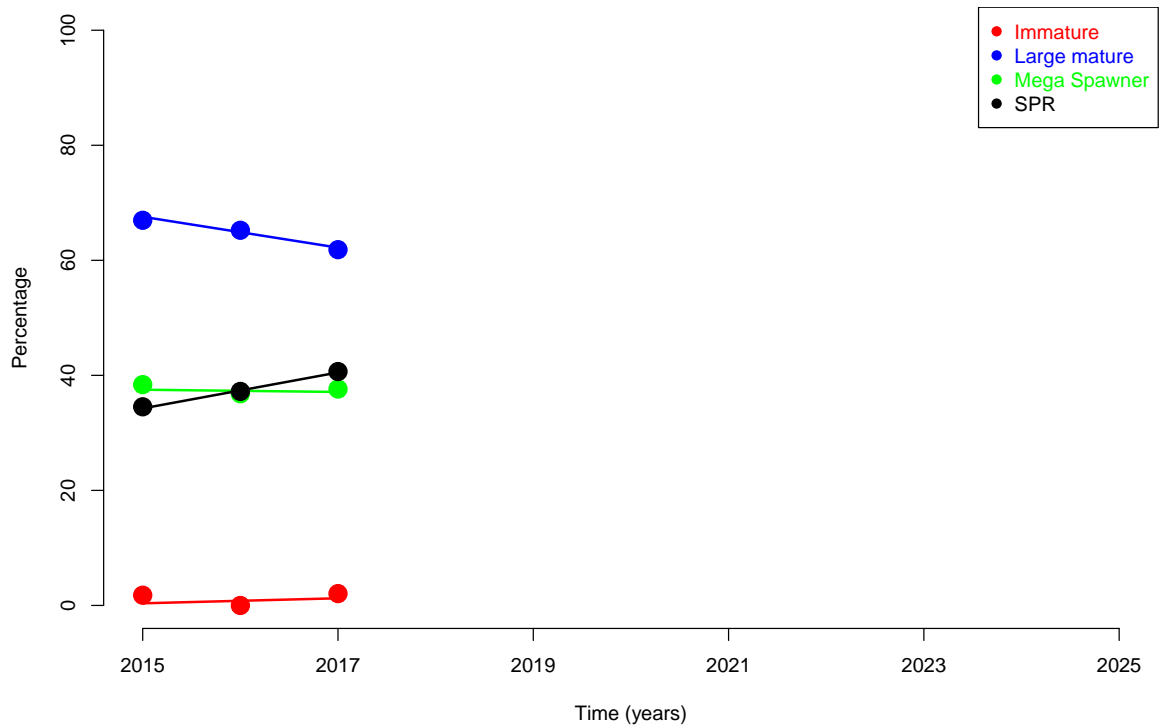
Longline – Trends by size group for *Seriola rivoliana* (ID #85, Carangidae)



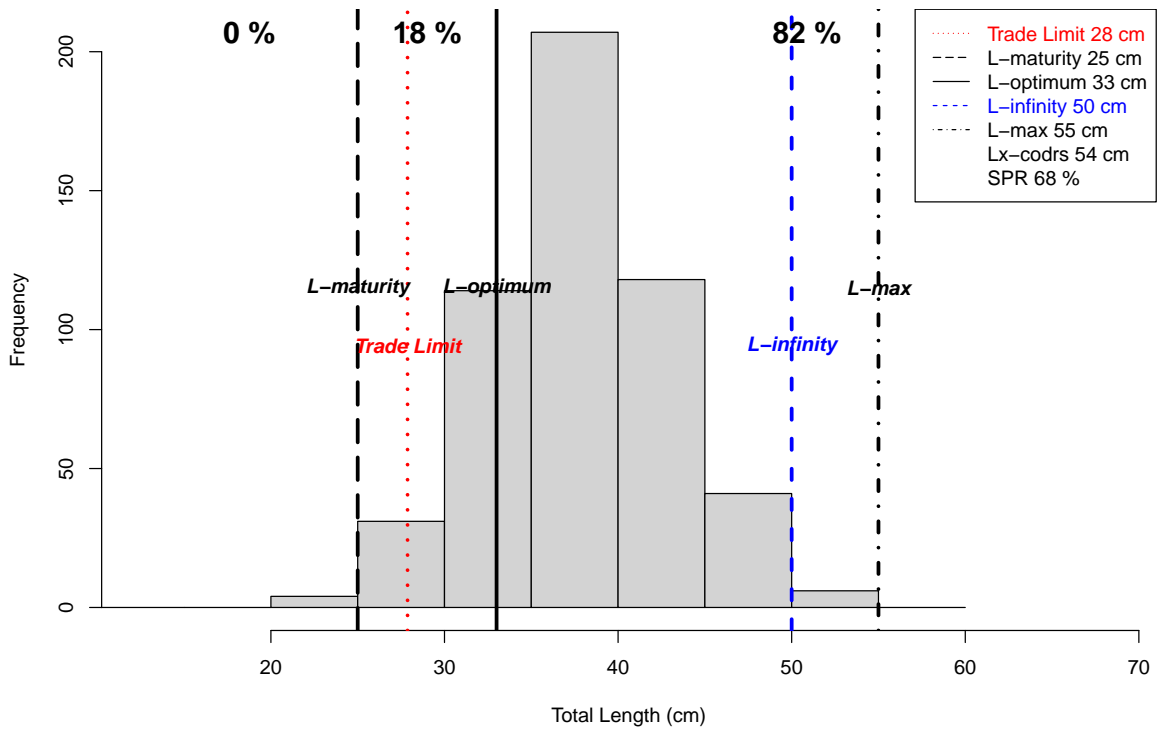
**Dropline – (ID #87) Length frequency of *Argyrops spinifer* (Sparidae), n = 700
 All Years Combined.**



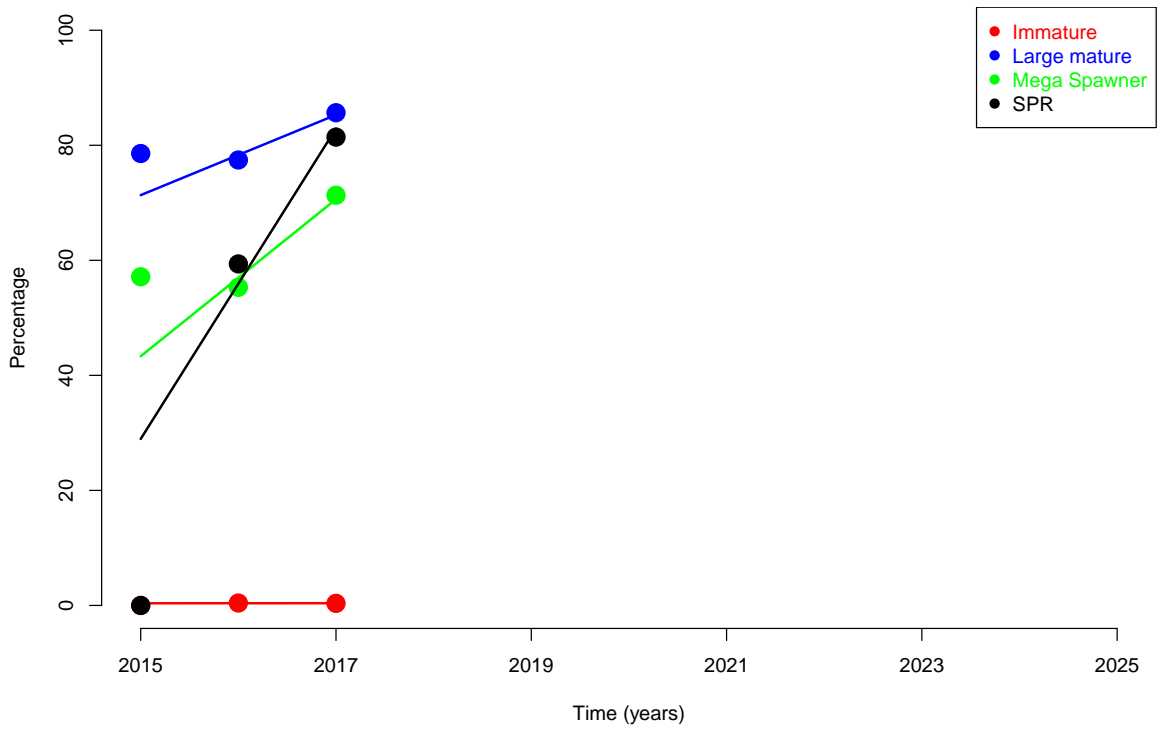
Dropline – Trends by size group for *Argyrops spinifer* (ID #87, Sparidae)



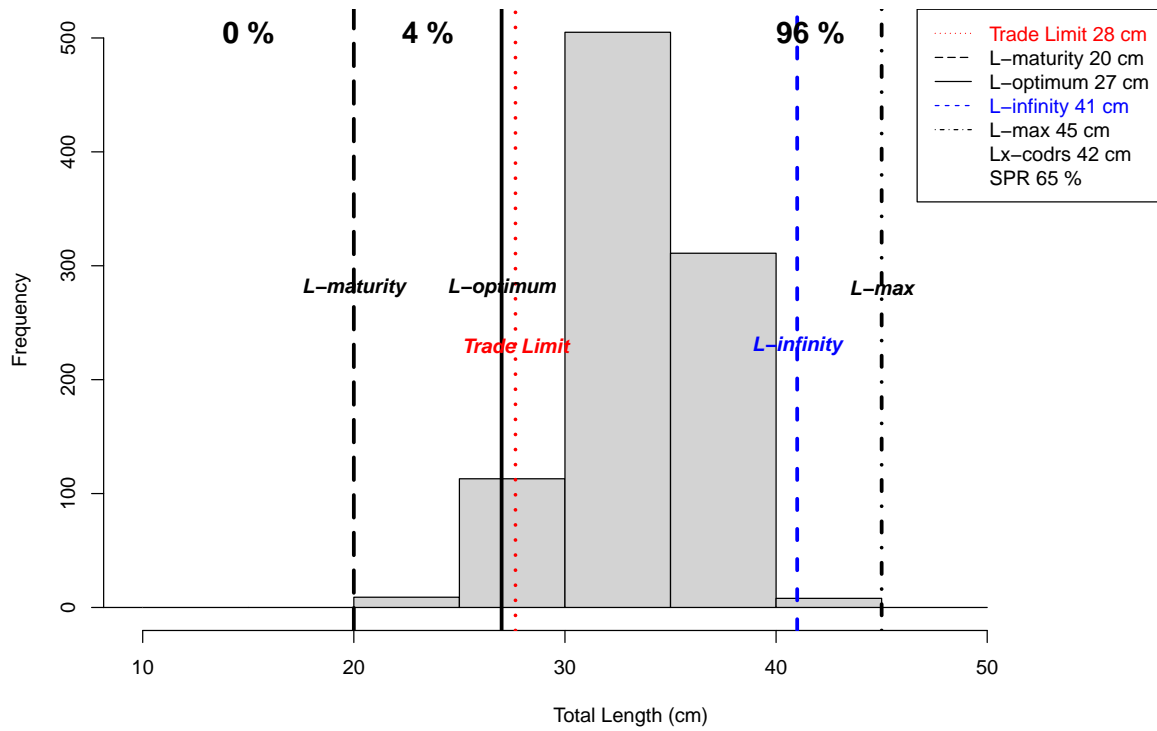
Longline – (ID #87) Length frequency of *Argyrops spinifer* (Sparidae), n = 521
 All Years Combined.



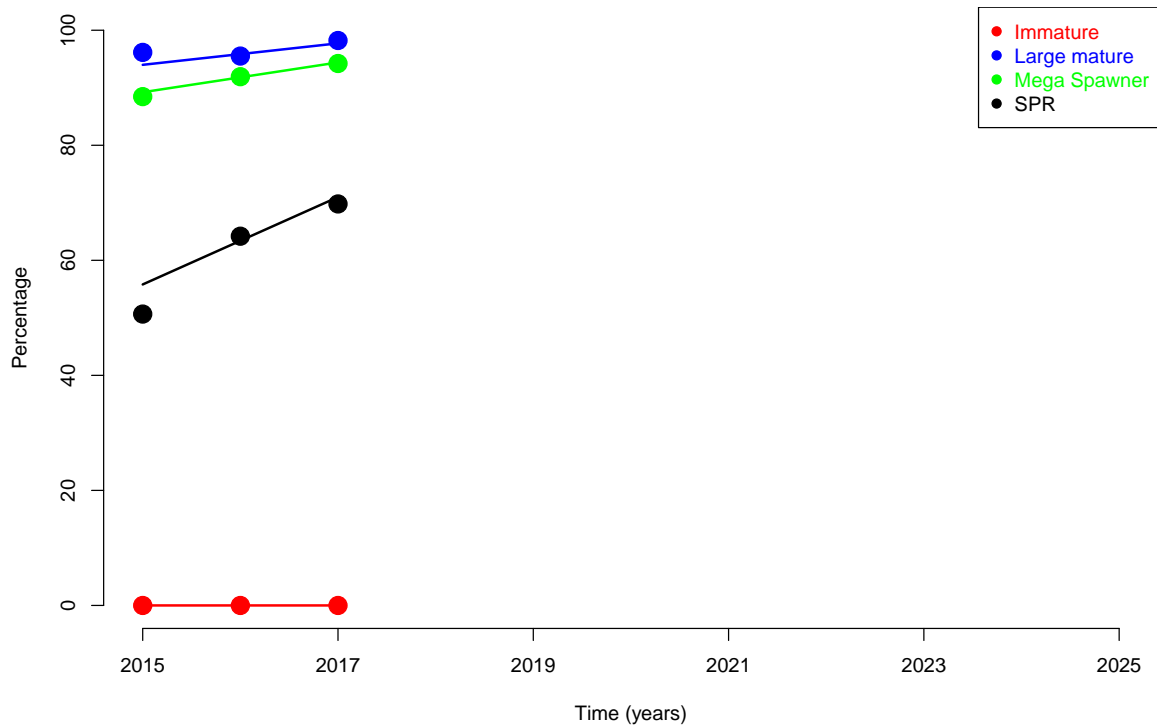
Longline – Trends by size group for *Argyrops spinifer* (ID #87, Sparidae)



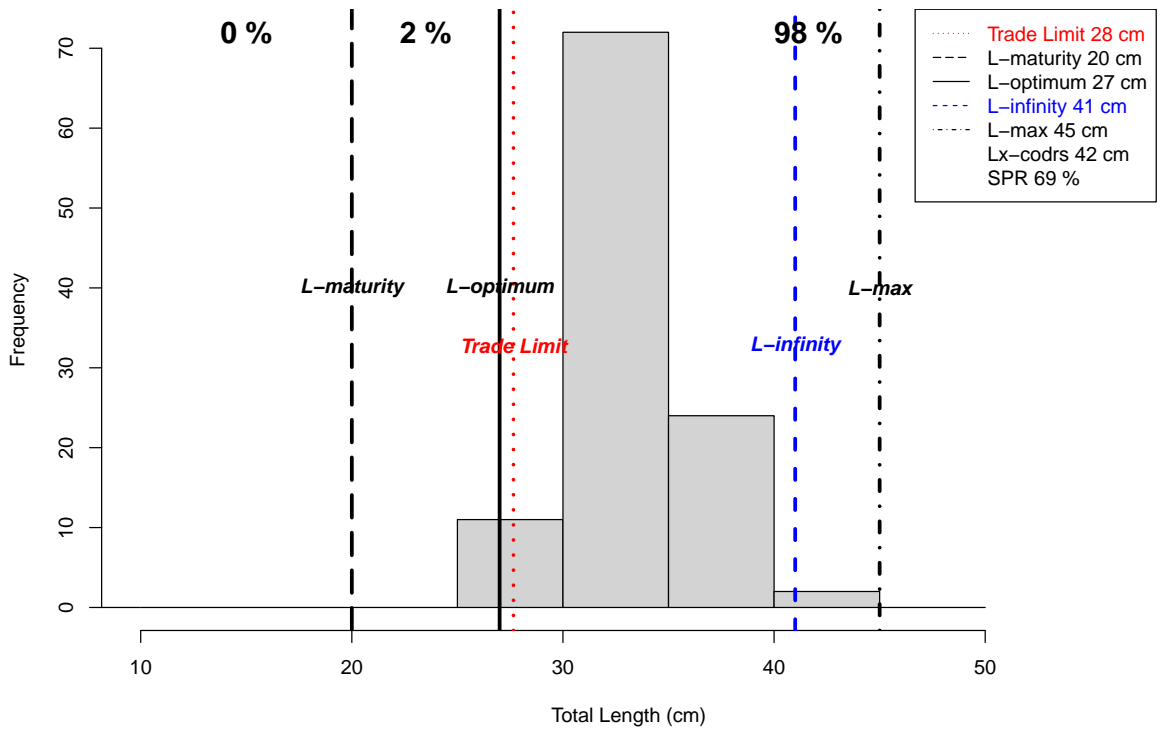
**Dropline – (ID #88) Length frequency of *Dentex carpenteri* (Sparidae), n = 946
 All Years Combined.**



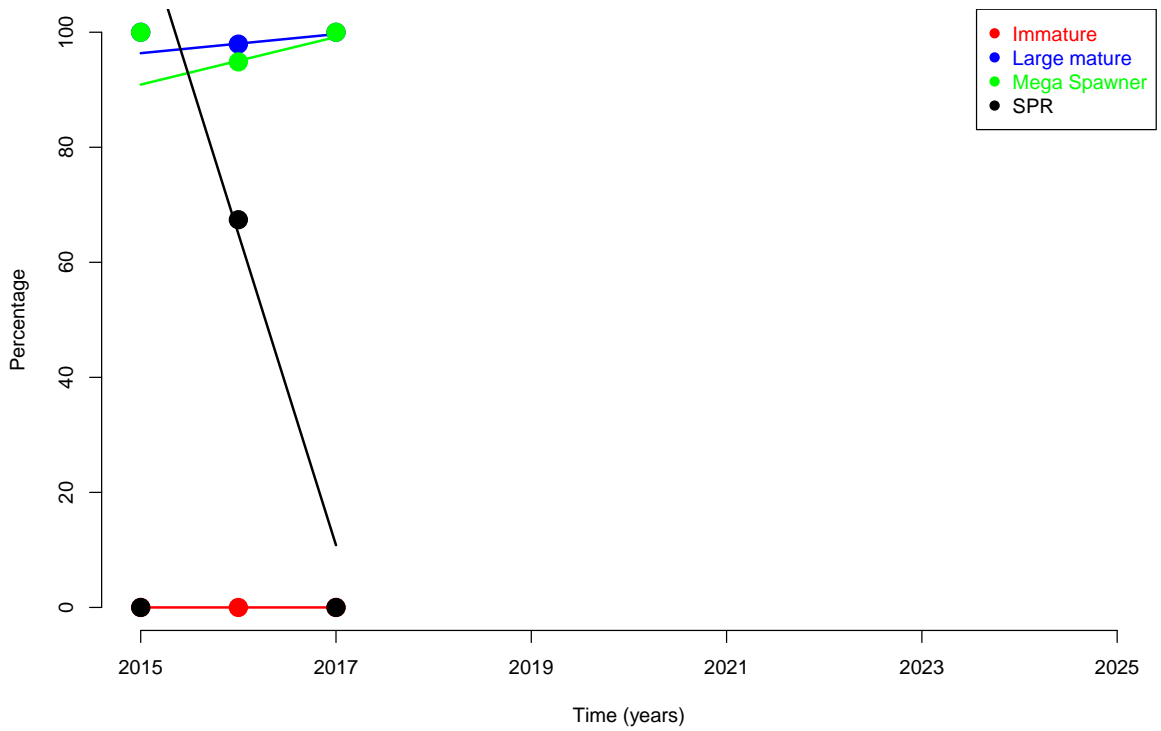
Dropline – Trends by size group for *Dentex carpenteri* (ID #88, Sparidae)



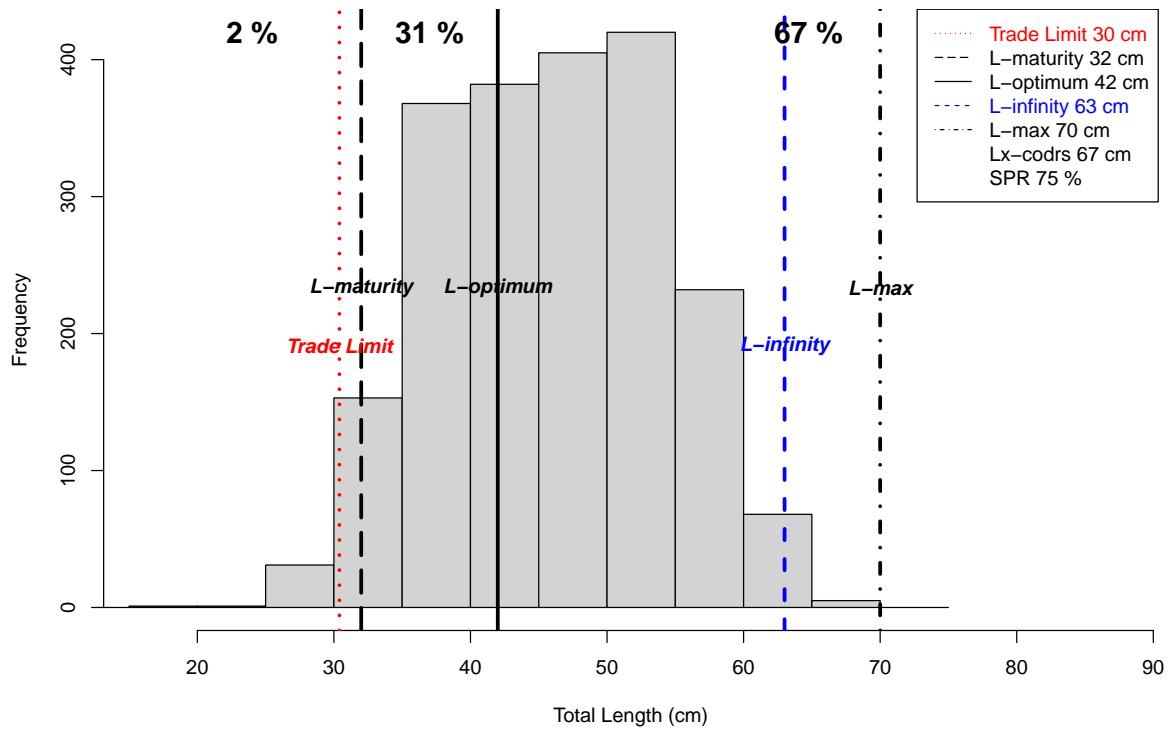
Longline – (ID #88) Length frequency of *Dentex carpenteri* (Sparidae), n = 109
 All Years Combined.



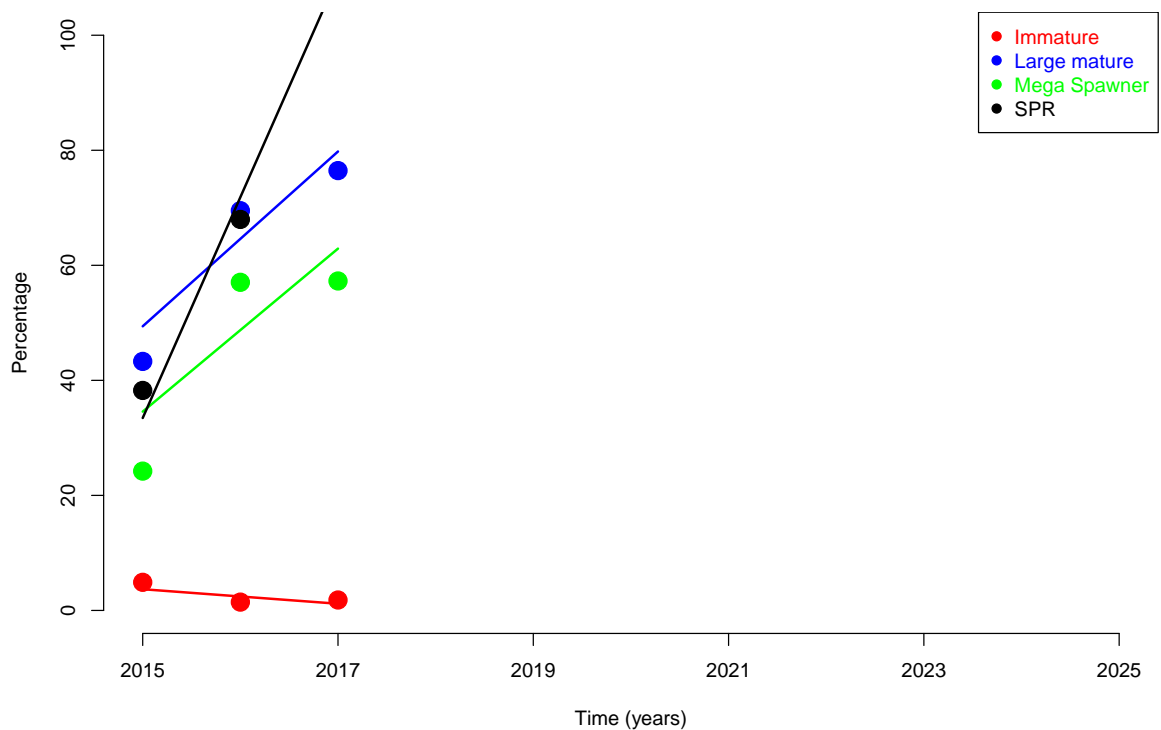
Longline – Trends by size group for *Dentex carpenteri* (ID #88, Sparidae)



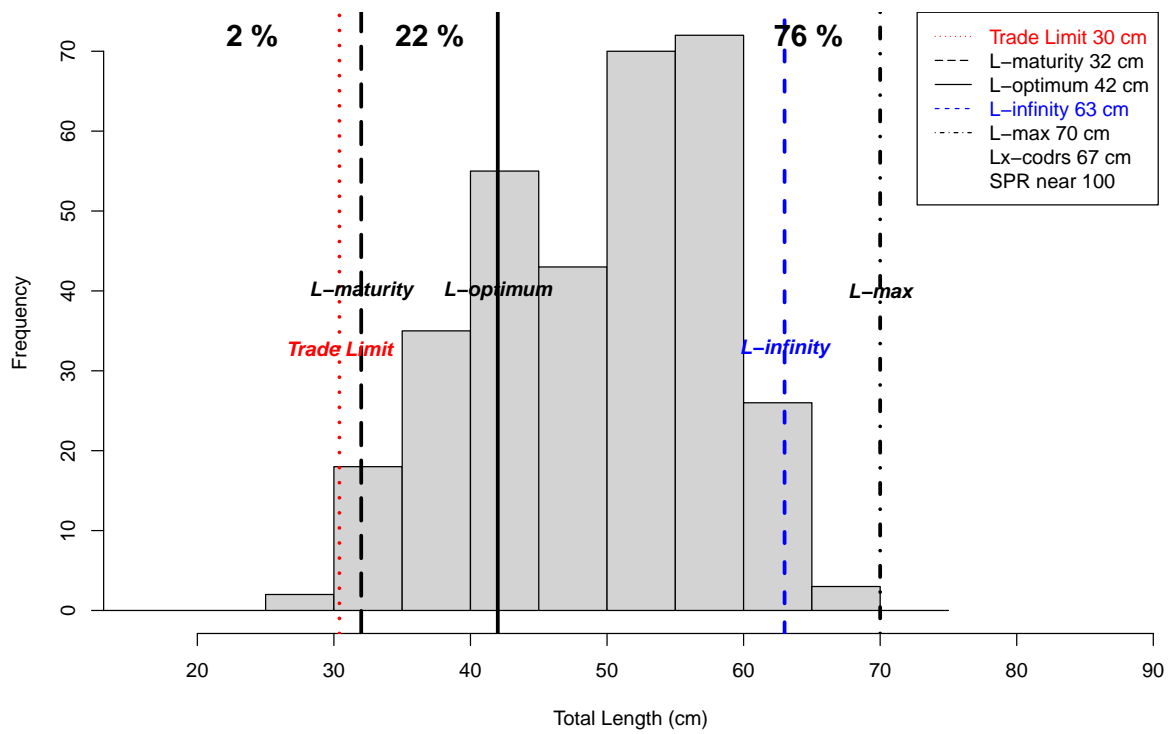
**Dropline – (ID #89) Length frequency of *Glaucosoma buergeri* (Glaucosomatidae), n = 2,066
 All Years Combined.**



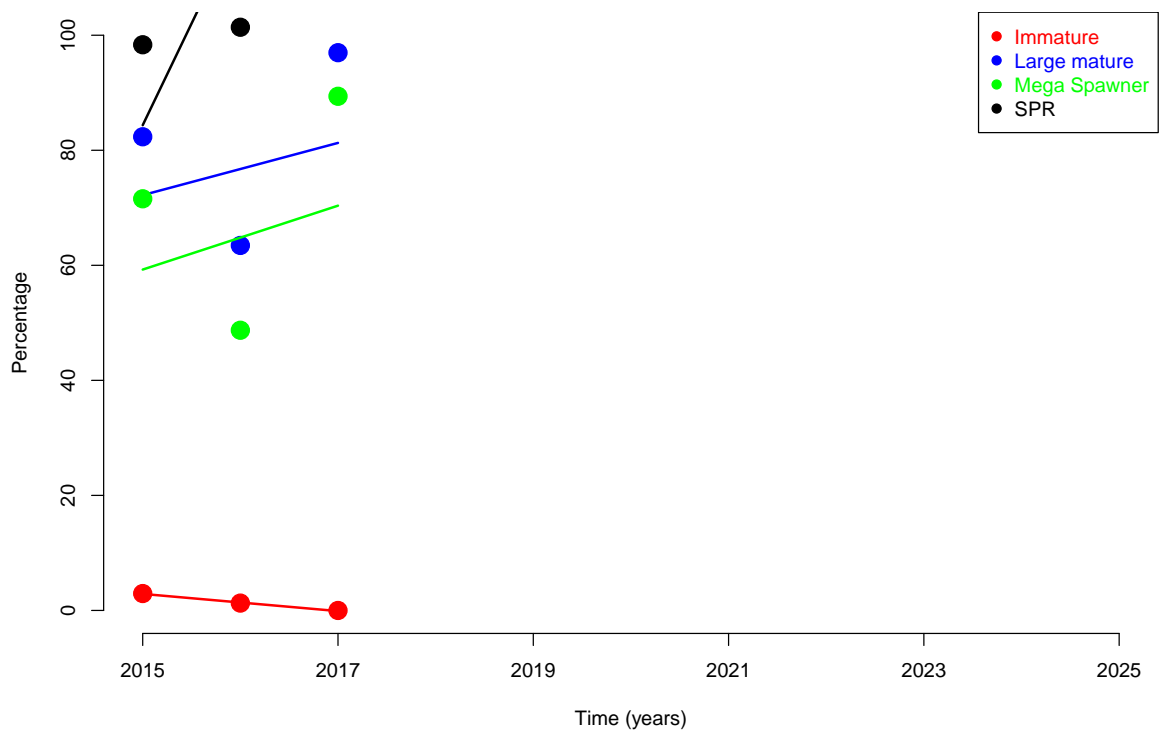
Dropline – Trends by size group for *Glaucosoma buergeri* (ID #89, Glaucosomatidae)



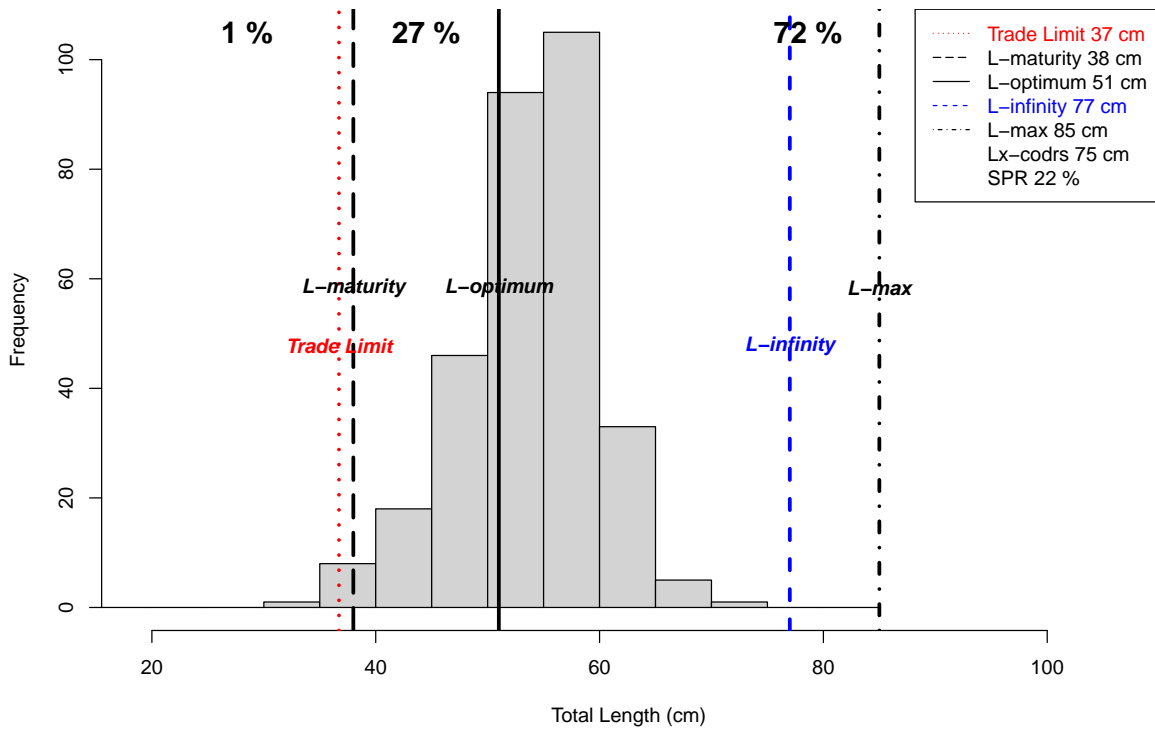
**Longline – (ID #89) Length frequency of *Glaucosoma buergeri* (Glaucosomatidae), n = 324
 All Years Combined.**



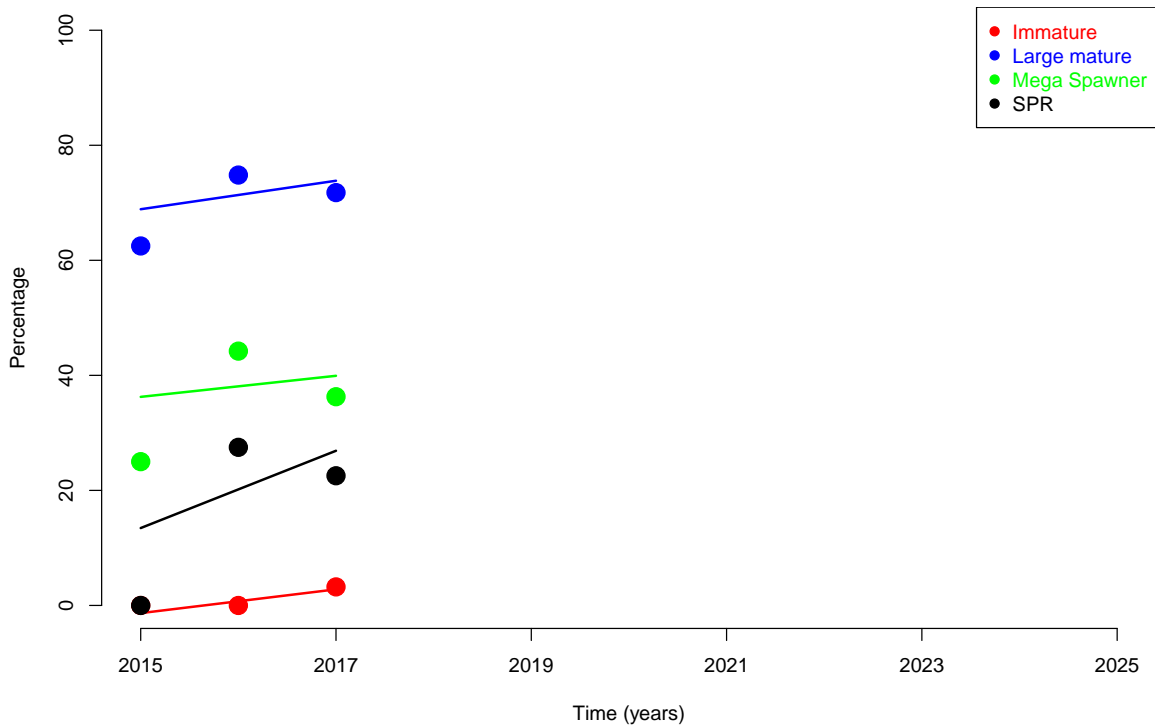
Longline – Trends by size group for *Glaucosoma buergeri* (ID #89, Glaucosomatidae)



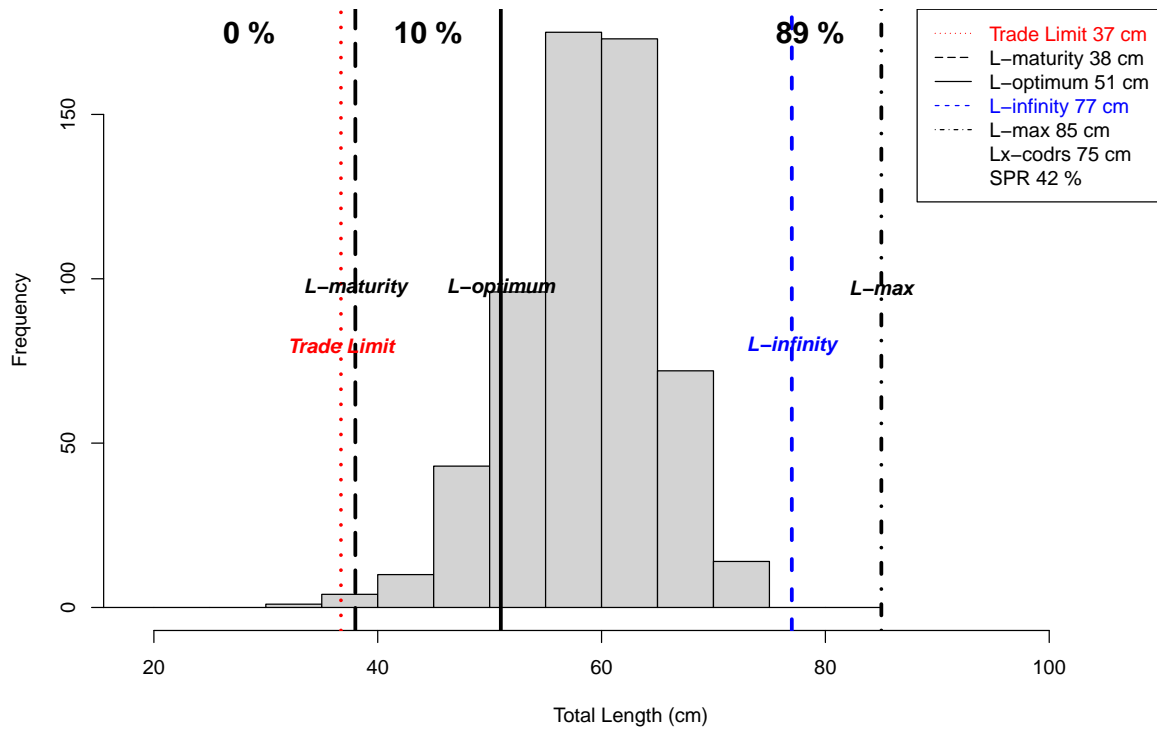
**Dropline – (ID #90) Length frequency of Diagramma labiosum (Haemulidae), n = 311
 All Years Combined.**



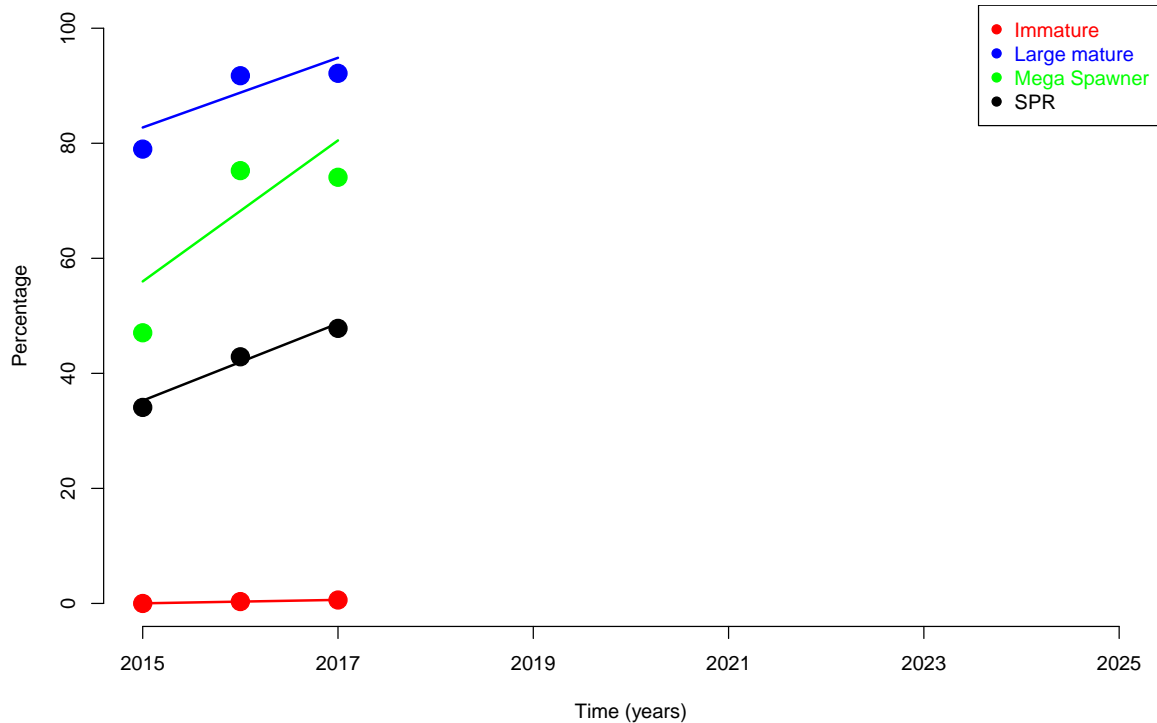
Dropline – Trends by size group for Diagramma labiosum (ID #90, Haemulidae)



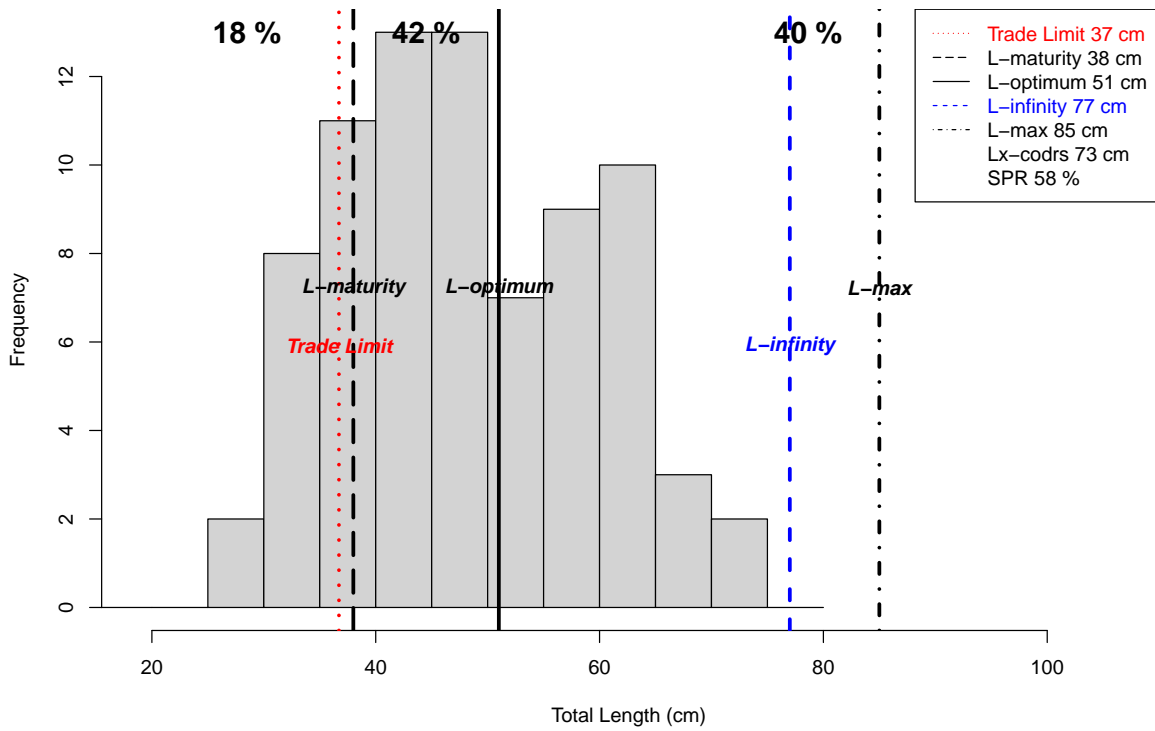
Longline – (ID #90) Length frequency of *Diagramma labiosum* (Haemulidae), n = 588
 All Years Combined.



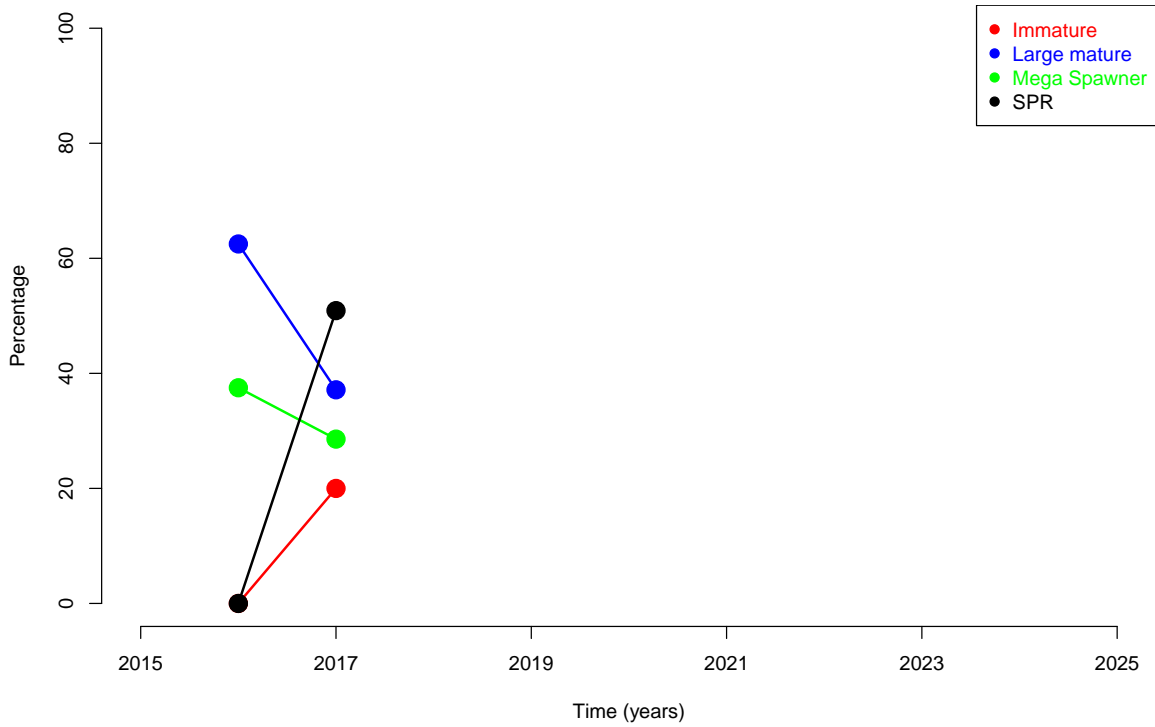
Longline – Trends by size group for *Diagramma labiosum* (ID #90, Haemulidae)



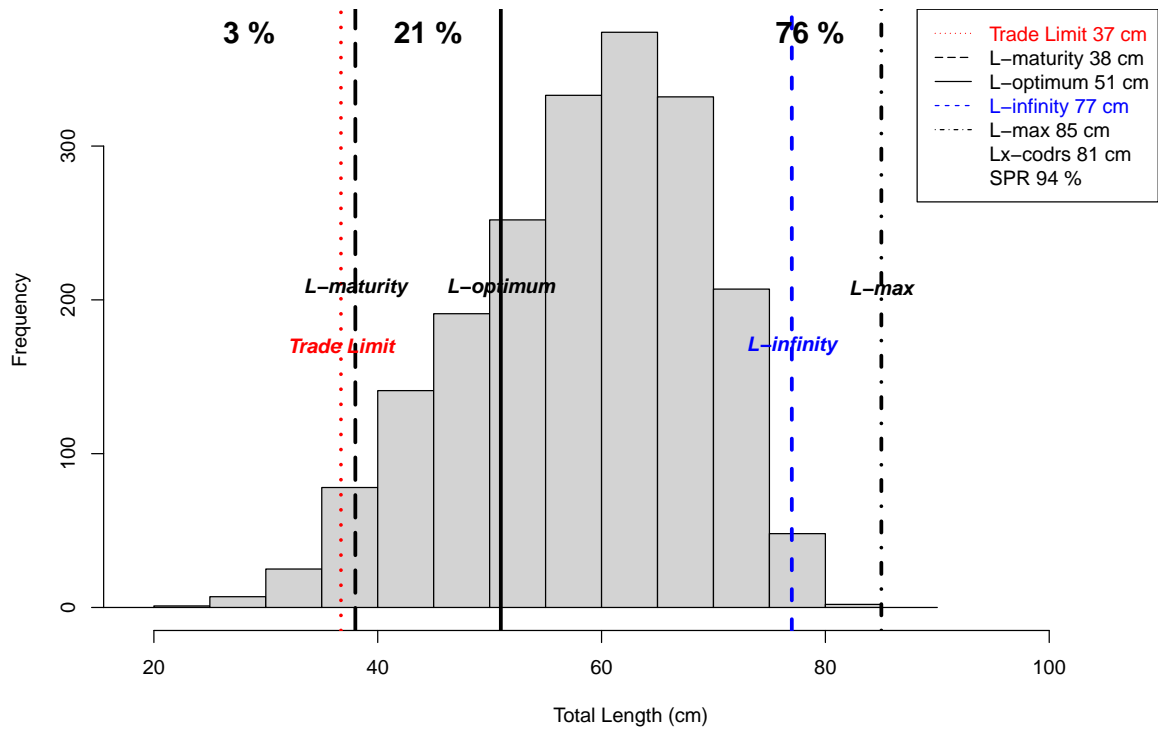
**Dropline – (ID #91) Length frequency of Diagramma pictum (Haemulidae), n = 78
 All Years Combined.**



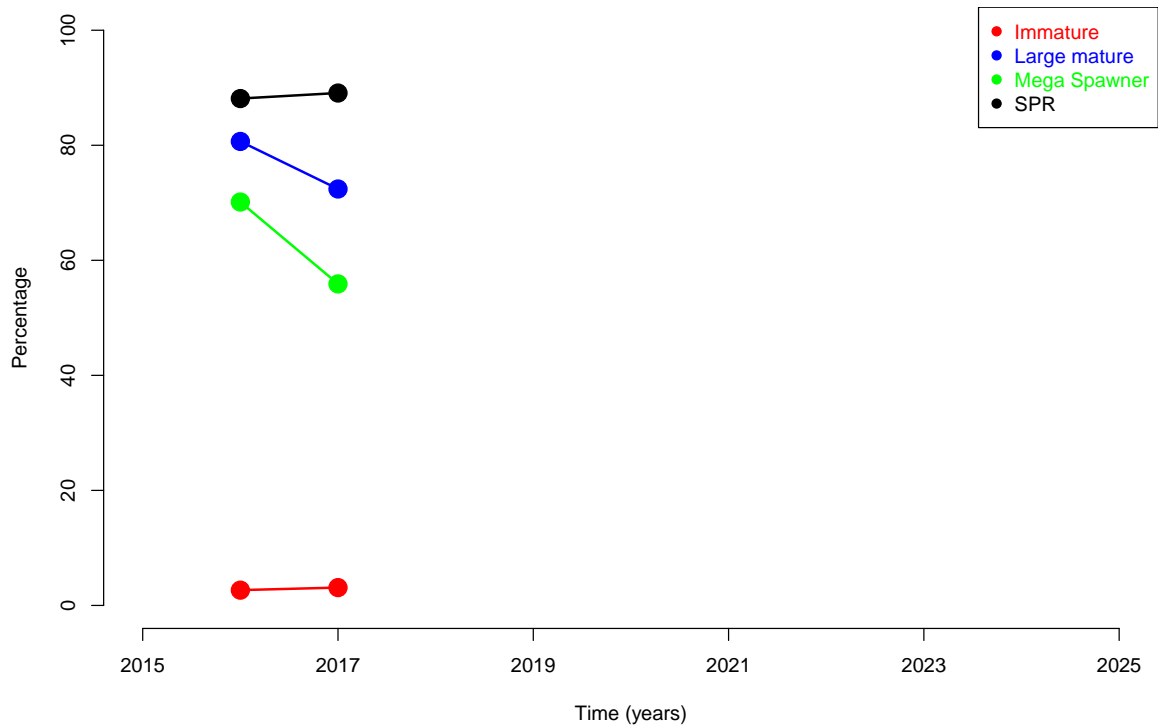
Dropline – Trends by size group for Diagramma pictum (ID #91, Haemulidae)



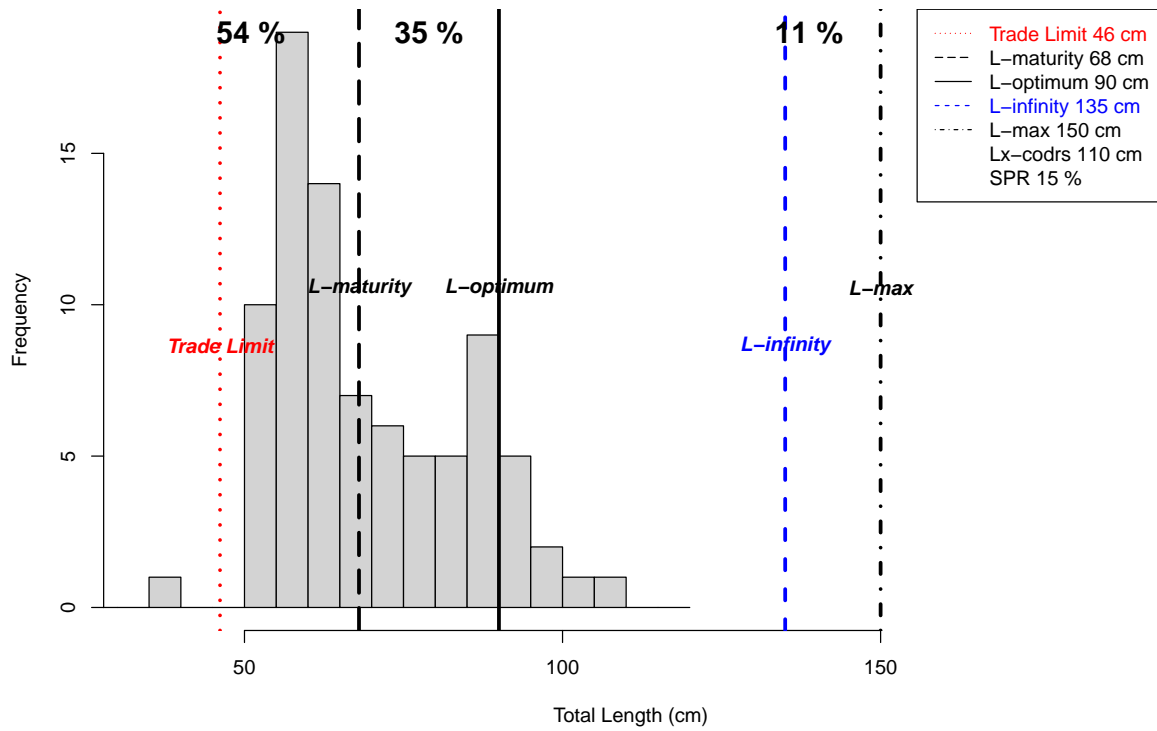
Longline – (ID #91) Length frequency of *Diagramma pictum* (Haemulidae), n = 1,991
 All Years Combined.



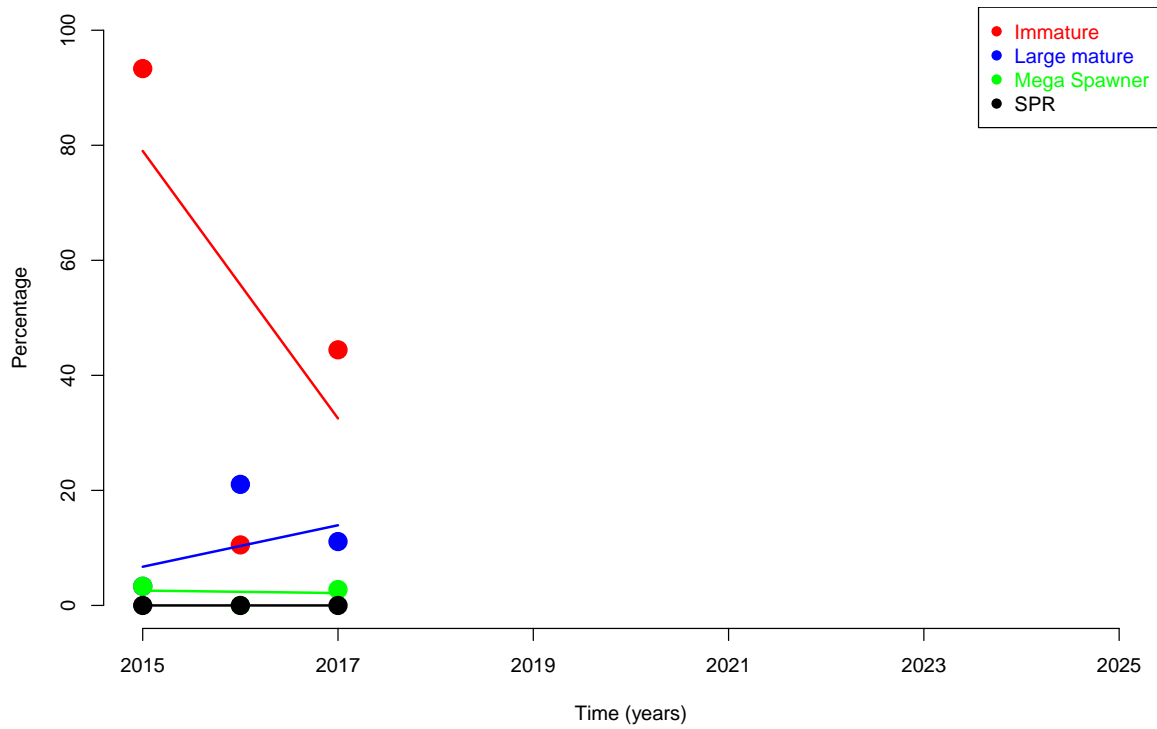
Longline – Trends by size group for *Diagramma pictum* (ID #91, Haemulidae)



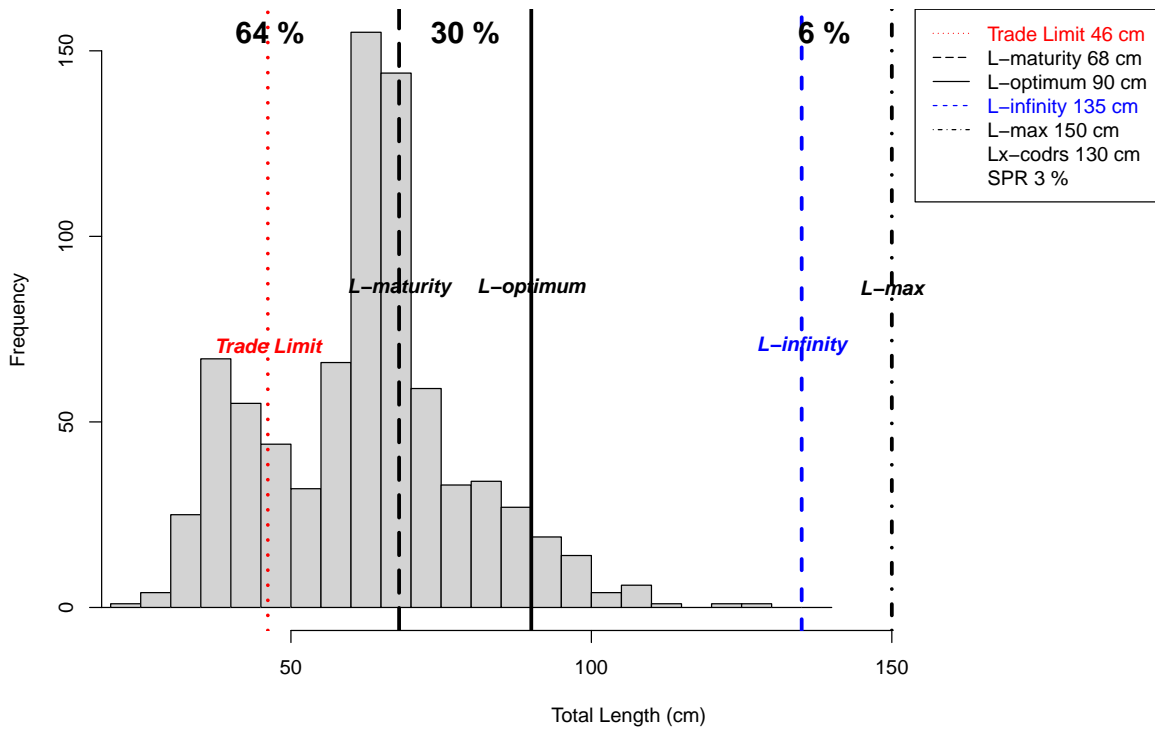
**Dropline – (ID #100) Length frequency of *Protonibea diacanthus* (Sciaenidae), n = 85
 All Years Combined.**



Dropline – Trends by size group for *Protonibea diacanthus* (ID #100, Sciaenidae)



**Longline – (ID #100) Length frequency of *Protonibea diacanthus* (Sciaenidae), n = 792
 All Years Combined.**



Longline – Trends by size group for *Protonibea diacanthus* (ID #100, Sciaenidae)

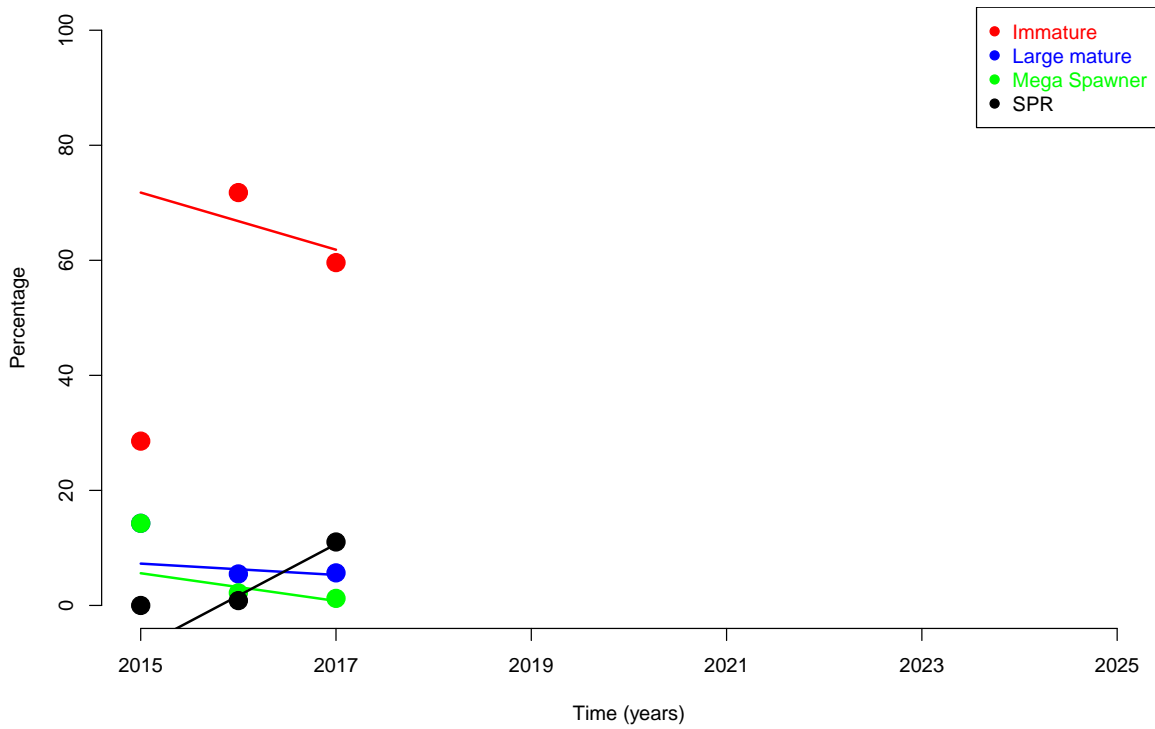


Table 7: Dropline - Risk Level in Fisheries by Species and by Indicator

#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	Aphareus rutilans	high	high	high	high	high	high
2	Aprion virescens	low	high	high	high	high	high
4	Etelis sp.	high	high	high	high	high	high
7	Pristipomoides multidentis	high	high	high	high	high	high
8	Pristipomoides typus	high	high	high	high	high	high
9	Pristipomoides filamentosus	high	high	high	high	high	high
10	Pristipomoides sieboldii	low	medium	high	high	high	high
14	Lutjanus bitaeniatus	low	low	low	medium	high	high
15	Lutjanus argentimaculatus	medium	high	high	high	high	high
16	Lutjanus bohar	high	high	high	high	high	high
17	Lutjanus malabaricus	high	high	high	high	high	high
18	Lutjanus sebae	high	high	high	high	high	high
19	Lutjanus timorensis	low	medium	high	high	high	high
20	Lutjanus gibbus	low	low	medium	medium	high	medium
21	Lutjanus erythropterus	low	high	low	low	high	medium
22	Pinjalo lewisi	low	medium	high	high	high	high
24	Lutjanus johnii	high	high	high	high	high	high
25	Lutjanus russelli	low	medium	low	low	medium	medium
26	Lutjanus lemniscatus	low	high	medium	high	high	high
27	Lutjanus vitta	low	low	high	high	high	high
31	Symphorus nematophorus	low	high	medium	high	high	high
34	Paracaesio kusakarii	medium	high	high	high	high	high
39	Cephalopholis sonnerati	low	low	low	low	low	low
41	Epinephelus latifasciatus	low	medium	low	low	low	low
43	Epinephelus morrhua	medium	high	high	high	medium	medium
45	Epinephelus areolatus	low	low	low	low	high	low
46	Epinephelus bleekeri	low	high	low	low	low	low
50	Epinephelus coioides	low	medium	low	low	low	low
58	Epinephelus amblycephalus	low	low	low	low	low	low
61	Plectropomus leopardus	low	medium	low	low	low	low
64	Lethrinus lentjan	low	medium	low	low	medium	low
65	Lethrinus laticaudis	low	high	low	low	high	high
67	Lethrinus olivaceus	low	high	low	low	high	low
68	Lethrinus amboinensis	low	medium	low	low	high	low
70	Wattsia mossambica	low	medium	medium	medium	medium	medium
71	Gymnocranius grandoculis	medium	high	medium	medium	medium	low
72	Gymnocranius griseus	low	low	low	low	low	low
73	Carangoides coeruleopinnatus	low	low	low	low	low	low
76	Carangoides chrysophrys	low	low	low	low	medium	low
77	Carangoides gymnostethus	medium	medium	low	low	low	low
78	Caranx bucculentus	low	low	low	low	medium	low
81	Caranx sexfasciatus	low	low	low	low	low	low
82	Caranx tille	low	low	low	low	high	low
85	Seriola rivoliana	medium	medium	high	high	high	high
87	Argyrops spinifer	low	low	low	low	high	medium
88	Dentex carpenteri	low	low	low	low	medium	low
89	Glaucosoma buergeri	low	medium	low	low	low	low
90	Diagramma labiosum	low	medium	low	low	high	high
91	Diagramma pictum	medium	medium	medium	medium	low	low
100	Protonibea diacanthus	high	high	high	high	high	high

Table 8: Longline - Risk Level in Fisheries by Species and by Indicator

#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	Aphareus rutilans	low	high	medium	high	high	high
2	Aprion virescens	low	high	low	high	high	high
4	Etelis sp.	high	high	high	high	high	high
7	Pristipomoides multidentis	high	high	high	high	high	high
8	Pristipomoides typus	medium	high	high	high	high	high
9	Pristipomoides filamentosus	high	high	high	high	high	high
10	Pristipomoides sieboldii	medium	medium	high	high	high	high
14	Lutjanus bitaeniatus	low	low	low	low	low	low
15	Lutjanus argentimaculatus	low	high	medium	high	high	medium
16	Lutjanus bohar	medium	high	high	high	high	high
17	Lutjanus malabaricus	medium	high	high	high	high	high
18	Lutjanus sebae	high	high	high	high	high	high
19	Lutjanus timorensis	low	medium	medium	medium	medium	medium
20	Lutjanus gibbus	low	low	low	low	high	high
21	Lutjanus erythropterus	low	high	low	low	low	low
22	Pinjalo lewisi	low	medium	low	medium	high	medium
24	Lutjanus johnii	low	high	medium	medium	high	medium
25	Lutjanus russelli	low	medium	low	low	low	low
26	Lutjanus lemniscatus	low	high	low	low	medium	medium
27	Lutjanus vitta	low	low	high	high	high	high
31	Symphorus nematophorus	low	high	low	low	medium	low
34	Paracaesio kusakarii	high	high	high	high	high	high
39	Cephalopholis sonnerati	low	low	low	low	low	low
41	Epinephelus latifasciatus	low	medium	low	low	medium	low
43	Epinephelus morrhua	medium	high	high	medium	medium	low
45	Epinephelus areolatus	low	low	low	low	medium	low
46	Epinephelus bleekeri	low	high	low	low	low	low
50	Epinephelus coioides	low	medium	low	low	low	low
58	Epinephelus amblycephalus	low	low	low	low	low	low
61	Plectropomus leopardus	low	medium	low	low	low	low
64	Lethrinus lentjan	low	medium	low	low	low	low
65	Lethrinus laticaudis	low	high	low	low	high	low
67	Lethrinus olivaceus	low	high	low	low	low	low
68	Lethrinus amboinensis	low	medium	low	low	medium	low
70	Wattsia mossambica	low	medium	low	low	high	medium
71	Gymnocranius grandoculis	medium	high	medium	low	low	low
72	Gymnocranius griseus	low	low	low	low	low	low
73	Carangoides coeruleopinnatus	low	low	low	low	low	low
76	Carangoides chrysophrys	low	low	low	low	medium	low
77	Carangoides gymnostethus	medium	medium	medium	high	high	medium
78	Caranx bucculentus	medium	low	medium	medium	high	high
81	Caranx sexfasciatus	low	low	low	low	low	low
82	Caranx tille	low	low	low	low	low	low
85	Seriola rivoliana	medium	medium	medium	high	high	high
87	Argyrops spinifer	low	low	low	low	low	low
88	Dentex carpenteri	low	low	low	low	medium	low
89	Glaucosoma buergeri	low	medium	low	low	low	low
90	Diagramma labiosum	low	medium	low	low	high	low
91	Diagramma pictum	low	medium	low	low	low	low
100	Protonibea diacanthus	high	high	high	high	high	high

Table 9: Dropline - Trends in Relative Abundance by Size Group and Species Over Recent Years

#ID	Species	% Immature	% Large Mature	% Mega Spawner	% SPR
1	Aphareus rutilans	deteriorating	deteriorating	deteriorating	deteriorating
2	Aprion virescens	deteriorating	improving	improving	improving
4	Etelis sp.	improving	improving	improving	improving
7	Pristipomoides multidentis	improving	improving	improving	improving
8	Pristipomoides typus	improving	improving	improving	improving
9	Pristipomoides filamentosus	improving	improving	improving	improving
10	Pristipomoides sieboldii	deteriorating	improving	improving	deteriorating
14	Lutjanus bitaeniatus	stable	improving	improving	improving
15	Lutjanus argentimaculatus	improving	improving	improving	improving
16	Lutjanus bohar	deteriorating	deteriorating	improving	improving
17	Lutjanus malabaricus	deteriorating	deteriorating	stable	deteriorating
18	Lutjanus sebae	deteriorating	improving	stable	improving
19	Lutjanus timorensis	improving	improving	improving	improving
20	Lutjanus gibbus	improving	deteriorating	deteriorating	improving
21	Lutjanus erythropterus	deteriorating	deteriorating	deteriorating	deteriorating
22	Pinjalo lewisi	improving	improving	improving	improving
24	Lutjanus johnii	stable	stable	stable	stable
25	Lutjanus russelli	deteriorating	improving	improving	improving
26	Lutjanus lemniscatus	deteriorating	improving	improving	improving
27	Lutjanus vitta	deteriorating	improving	improving	improving
31	Symphorus nematophorus	deteriorating	improving	improving	improving
34	Paracaesio kusakarii	improving	improving	improving	improving
39	Cephalopholis sonnerati	deteriorating	improving	improving	improving
41	Epinephelus latifasciatus	improving	deteriorating	deteriorating	improving
43	Epinephelus morrhua	improving	improving	improving	improving
45	Epinephelus areolatus	stable	deteriorating	improving	improving
46	Epinephelus bleekeri	stable	deteriorating	deteriorating	improving
50	Epinephelus coioides	deteriorating	deteriorating	deteriorating	improving
58	Epinephelus amblycephalus	improving	improving	improving	improving
61	Plectropomus leopardus	stable	deteriorating	deteriorating	improving
64	Lethrinus lentjan	deteriorating	deteriorating	deteriorating	deteriorating
65	Lethrinus laticaudis	deteriorating	deteriorating	deteriorating	improving
67	Lethrinus olivaceus	deteriorating	improving	improving	deteriorating
68	Lethrinus amboinensis	improving	improving	improving	improving
70	Wattsia mossambica	improving	improving	improving	deteriorating
71	Gymnocranius grandoculis	improving	improving	improving	improving
72	Gymnocranius griseus	stable	improving	improving	improving
73	Carangoides coeruleopinnatus	deteriorating	improving	improving	deteriorating
76	Carangoides chrysophrys	deteriorating	deteriorating	deteriorating	deteriorating
77	Carangoides gymnostethus	improving	improving	improving	deteriorating
78	Caranx bucculentus	stable	stable	stable	stable
81	Caranx sexfasciatus	improving	improving	deteriorating	improving
82	Caranx tille	improving	improving	deteriorating	deteriorating
85	Seriola rivoliana	improving	improving	improving	improving
87	Argyrops spinifer	deteriorating	deteriorating	deteriorating	improving
88	Dentex carpenteri	stable	improving	improving	improving
89	Glaucosoma buergeri	improving	improving	improving	improving
90	Diagramma labiosum	deteriorating	improving	improving	improving
91	Diagramma pictum	deteriorating	deteriorating	deteriorating	improving
100	Protonibea diacanthus	improving	improving	deteriorating	stable

Table 10: Longline - Trends in Relative Abundance by Size Group and Species Over Recent Years

#ID	Species	% Immature	% Large Mature	% Mega Spawner	% SPR
1	Aphareus rutilans	improving	deteriorating	deteriorating	improving
2	Aprion virescens	deteriorating	deteriorating	deteriorating	improving
4	Etelis sp.	deteriorating	deteriorating	stable	deteriorating
7	Pristipomoides multidens	improving	improving	improving	improving
8	Pristipomoides typus	improving	improving	improving	improving
9	Pristipomoides filamentosus	improving	improving	improving	improving
10	Pristipomoides sieboldii	improving	improving	improving	stable
14	Lutjanus bitaeniatus	stable	improving	improving	improving
15	Lutjanus argentimaculatus	stable	deteriorating	deteriorating	deteriorating
16	Lutjanus bohar	improving	improving	improving	improving
17	Lutjanus malabaricus	improving	improving	deteriorating	deteriorating
18	Lutjanus sebae	deteriorating	deteriorating	deteriorating	improving
19	Lutjanus timorensis	improving	improving	improving	improving
20	Lutjanus gibbus	improving	deteriorating	deteriorating	deteriorating
21	Lutjanus erythropterus	improving	improving	improving	improving
22	Pinjalo lewisi	stable	deteriorating	deteriorating	improving
24	Lutjanus johnii	improving	deteriorating	deteriorating	deteriorating
25	Lutjanus russelli	deteriorating	improving	improving	improving
26	Lutjanus lemniscatus	improving	improving	improving	deteriorating
27	Lutjanus vitta	deteriorating	improving	improving	improving
31	Symphorus nematophorus	improving	improving	deteriorating	deteriorating
34	Paracaesio kusakarii	improving	improving	deteriorating	stable
39	Cephalopholis sonnerati	improving	improving	improving	improving
41	Epinephelus latifasciatus	improving	improving	deteriorating	improving
43	Epinephelus morrhua	improving	improving	improving	improving
45	Epinephelus areolatus	deteriorating	deteriorating	deteriorating	stable
46	Epinephelus bleekeri	stable	improving	improving	deteriorating
50	Epinephelus coioides	improving	deteriorating	deteriorating	deteriorating
58	Epinephelus amblycephalus	improving	improving	improving	deteriorating
61	Plectropomus leopardus	improving	stable	deteriorating	improving
64	Lethrinus lentjan	deteriorating	deteriorating	deteriorating	deteriorating
65	Lethrinus laticaudis	stable	improving	deteriorating	deteriorating
67	Lethrinus olivaceus	improving	deteriorating	deteriorating	deteriorating
68	Lethrinus amboinensis	improving	stable	improving	improving
70	Wattsia mossambica	improving	improving	improving	improving
71	Gymnocranius grandoculis	stable	deteriorating	deteriorating	deteriorating
72	Gymnocranius griseus	stable	deteriorating	deteriorating	improving
73	Carangoides coeruleopinnatus	improving	improving	improving	deteriorating
76	Carangoides chrysophrys	deteriorating	deteriorating	deteriorating	improving
77	Carangoides gymnostethus	improving	deteriorating	deteriorating	deteriorating
78	Caranx bucculentus	deteriorating	deteriorating	deteriorating	improving
81	Caranx sexfasciatus	improving	improving	improving	deteriorating
82	Caranx tille	improving	improving	improving	deteriorating
85	Seriola rivoliana	improving	improving	improving	improving
87	Argyrops spinifer	stable	improving	improving	improving
88	Dentex carpenteri	stable	improving	improving	deteriorating
89	Glaucosoma buergeri	improving	improving	improving	improving
90	Diagramma labiosum	deteriorating	improving	improving	improving
91	Diagramma pictum	deteriorating	deteriorating	deteriorating	improving
100	Protonibea diacanthus	improving	deteriorating	deteriorating	improving

Table 11: Dropline - Risk Level in Fisheries by Species and by Indicator in WPP 573.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	high	high	high	high	high	high
3	8	Pristipomoides typus	high	high	high	high	high	high
4	45	Epinephelus areolatus	low	low	low	low	high	low
5	9	Pristipomoides filamentosus	high	high	high	high	high	high
6	1	Aphareus rutilans	high	high	high	high	high	high
7	34	Paracaesio kusakarii	high	high	high	high	high	high
8	21	Lutjanus erythropterus	low	high	low	low	high	medium
9	4	Etelis sp.	high	high	high	high	high	high
10	10	Pristipomoides sieboldii	low	medium	high	high	high	high
11	6	Etelis coruscans	high	high	high	high	high	high
12	22	Pinjalo lewisi	medium	medium	high	high	high	high
13	19	Lutjanus timorensis	low	medium	high	high	high	high
14	71	Gymnocranius grandoculis	medium	high	high	high	high	high
15	18	Lutjanus sebae	high	high	high	high	high	high
16	27	Lutjanus vitta	low	low	high	high	high	high
17	35	Paracaesio stonei	medium	high	high	high	high	high
18	65	Lethrinus laticaudis	unknown	unknown	unknown	unknown	unknown	unknown
19	70	Wattsia mossambica	low	medium	high	high	high	high
20	92	Pomadasy s kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	high	high	high	high	high	high
22	32	Paracaesio gonzalesi	low	high	high	high	high	high
23	86	Erythrocles schlegelii	low	low	low	low	high	medium
24	78	Caranx bucculentus	unknown	unknown	unknown	unknown	unknown	unknown
25	76	Carangoides chrysophrys	low	low	low	low	low	low
26	43	Epinephelus morrhua	medium	high	high	high	high	high
27	39	Cephalopholis sonnerati	low	low	low	low	medium	low
28	15	Lutjanus argentimaculatus	medium	high	high	high	high	high
29	89	Glaucosoma buergeri	low	medium	low	low	low	low
30	85	Seriola rivoliana	medium	medium	high	high	high	high
31	2	Aprion virescens	medium	high	high	high	high	high
32	91	Diagramma pictum	unknown	unknown	unknown	unknown	unknown	unknown
33	64	Lethrinus lentjan	low	medium	low	low	medium	low
34	67	Lethrinus olivaceus	unknown	unknown	unknown	unknown	unknown	unknown
35	16	Lutjanus bohar	high	high	high	high	high	medium
36	33	Paracaesio xanthura	low	medium	low	low	high	high
37	68	Lethrinus amboinensis	low	medium	low	low	medium	low
38	51	Epinephelus chlorostigma	low	low	low	low	high	medium
39	58	Epinephelus amblycephalus	low	low	low	low	low	low
40	81	Caranx sexfasciatus	low	low	low	low	low	low
41	72	Gymnocranius griseus	low	low	low	low	low	low
42	50	Epinephelus coioides	low	medium	low	low	low	low
43	87	Argyrops spinifer	low	low	low	low	high	low
44	20	Lutjanus gibbus	medium	low	high	high	high	high
45	31	Symphorus nematophorus	low	high	high	high	high	high
46	88	Dentex carpenteri	low	low	low	low	medium	low
47	93	Cookeolus japonicus	low	medium	low	low	low	low
48	53	Epinephelus heniochus	unknown	unknown	unknown	unknown	unknown	unknown
49	24	Lutjanus johnii	unknown	unknown	unknown	unknown	unknown	unknown
50	46	Epinephelus bleekeri	low	high	low	low	low	low

Table 12: Longline - Risk Level in Fisheries by Species and by Indicator in WPP 573.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	high	high	high	high	high	high
3	8	Pristipomoides typus	high	high	high	high	high	high
4	45	Epinephelus areolatus	low	low	low	low	high	low
5	9	Pristipomoides filamentosus	high	high	high	high	medium	medium
6	1	Aphareus rutilans	unknown	unknown	unknown	unknown	unknown	unknown
7	34	Paracaesio kusakarii	unknown	unknown	unknown	unknown	unknown	unknown
8	21	Lutjanus erythropterus	unknown	unknown	unknown	unknown	unknown	unknown
9	4	Etelis sp.	unknown	unknown	unknown	unknown	unknown	unknown
10	10	Pristipomoides sieboldii	unknown	unknown	unknown	unknown	unknown	unknown
11	6	Etelis coruscans	unknown	unknown	unknown	unknown	unknown	unknown
12	22	Pinjalo lewisi	unknown	unknown	unknown	unknown	unknown	unknown
13	19	Lutjanus timorensis	low	medium	medium	high	high	high
14	71	Gymnocranius grandoculis	low	high	medium	medium	high	high
15	18	Lutjanus sebae	high	high	high	high	high	high
16	27	Lutjanus vitta	low	low	high	high	high	high
17	35	Paracaesio stonei	unknown	unknown	unknown	unknown	unknown	unknown
18	65	Lethrinus laticaudis	unknown	unknown	unknown	unknown	unknown	unknown
19	70	Wattsia mossambica	unknown	unknown	unknown	unknown	unknown	unknown
20	92	Pomadasyds kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	unknown	unknown	unknown	unknown	unknown	unknown
22	32	Paracaesio gonzalesi	unknown	unknown	unknown	unknown	unknown	unknown
23	86	Erythrocles schlegelii	unknown	unknown	unknown	unknown	unknown	unknown
24	78	Caranx bucculentus	unknown	unknown	unknown	unknown	unknown	unknown
25	76	Carangoides chrysophrys	unknown	unknown	unknown	unknown	unknown	unknown
26	43	Epinephelus morrhua	medium	high	high	high	high	high
27	39	Cephalopholis sonnerati	low	low	low	low	medium	low
28	15	Lutjanus argentimaculatus	unknown	unknown	unknown	unknown	unknown	unknown
29	89	Glaucosoma buergeri	low	medium	low	low	low	low
30	85	Seriola rivoliana	unknown	unknown	unknown	unknown	unknown	unknown
31	2	Aprion virescens	unknown	unknown	unknown	unknown	unknown	unknown
32	91	Diagramma pictum	unknown	unknown	unknown	unknown	unknown	unknown
33	64	Lethrinus lentjan	low	medium	low	low	medium	low
34	67	Lethrinus olivaceus	unknown	unknown	unknown	unknown	unknown	unknown
35	16	Lutjanus bohar	medium	high	high	high	high	high
36	33	Paracaesio xanthura	unknown	unknown	unknown	unknown	unknown	unknown
37	68	Lethrinus amboinensis	unknown	unknown	unknown	unknown	unknown	unknown
38	51	Epinephelus chlorostigma	unknown	unknown	unknown	unknown	unknown	unknown
39	58	Epinephelus amblycephalus	unknown	unknown	unknown	unknown	unknown	unknown
40	81	Caranx sexfasciatus	unknown	unknown	unknown	unknown	unknown	unknown
41	72	Gymnocranius griseus	unknown	unknown	unknown	unknown	unknown	unknown
42	50	Epinephelus coioides	unknown	unknown	unknown	unknown	unknown	unknown
43	87	Argyrops spinifer	low	low	low	low	medium	low
44	20	Lutjanus gibbus	unknown	unknown	unknown	unknown	unknown	unknown
45	31	Symphorus nematophorus	low	high	high	high	high	high
46	88	Dentex carpenteri	unknown	unknown	unknown	unknown	unknown	unknown
47	93	Cookeolus japonicus	unknown	unknown	unknown	unknown	unknown	unknown
48	53	Epinephelus heniochus	low	medium	low	low	low	low
49	24	Lutjanus johnii	unknown	unknown	unknown	unknown	unknown	unknown
50	46	Epinephelus bleekeri	unknown	unknown	unknown	unknown	unknown	unknown

Table 13: Dropline - Risk Level in Fisheries by Species and by Indicator in WPP 712 and 713.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	high	high	high	high	high	high
3	8	Pristipomoides typus	unknown	unknown	unknown	unknown	unknown	unknown
4	45	Epinephelus areolatus	low	low	low	low	medium	low
5	9	Pristipomoides filamentosus	unknown	unknown	unknown	unknown	unknown	unknown
6	1	Aphareus rutilans	unknown	unknown	unknown	unknown	unknown	unknown
7	34	Paracaesio kusakarii	unknown	unknown	unknown	unknown	unknown	unknown
8	21	Lutjanus erythropterus	unknown	unknown	unknown	unknown	unknown	unknown
9	4	Etelis sp.	unknown	unknown	unknown	unknown	unknown	unknown
10	10	Pristipomoides sieboldii	unknown	unknown	unknown	unknown	unknown	unknown
11	6	Etelis coruscans	unknown	unknown	unknown	unknown	unknown	unknown
12	22	Pinjalo lewisi	unknown	unknown	unknown	unknown	unknown	unknown
13	19	Lutjanus timorensis	unknown	unknown	unknown	unknown	unknown	unknown
14	71	Gymnocranius grandoculis	unknown	unknown	unknown	unknown	unknown	unknown
15	18	Lutjanus sebae	unknown	unknown	unknown	unknown	unknown	unknown
16	27	Lutjanus vitta	unknown	unknown	unknown	unknown	unknown	unknown
17	35	Paracaesio stonei	unknown	unknown	unknown	unknown	unknown	unknown
18	65	Lethrinus laticaudis	unknown	unknown	unknown	unknown	unknown	unknown
19	70	Wattsia mossambica	unknown	unknown	unknown	unknown	unknown	unknown
20	92	Pomadasyds kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	unknown	unknown	unknown	unknown	unknown	unknown
22	32	Paracaesio gonzalesi	unknown	unknown	unknown	unknown	unknown	unknown
23	86	Erythrocles schlegelii	unknown	unknown	unknown	unknown	unknown	unknown
24	78	Caranx bucculentus	unknown	unknown	unknown	unknown	unknown	unknown
25	76	Carangoides chrysophrys	unknown	unknown	unknown	unknown	unknown	unknown
26	43	Epinephelus morrhua	unknown	unknown	unknown	unknown	unknown	unknown
27	39	Cephalopholis sonnerati	unknown	unknown	unknown	unknown	unknown	unknown
28	15	Lutjanus argentimaculatus	unknown	unknown	unknown	unknown	unknown	unknown
29	89	Glaucosoma buergeri	unknown	unknown	unknown	unknown	unknown	unknown
30	85	Seriola rivoliana	unknown	unknown	unknown	unknown	unknown	unknown
31	2	Aprion virescens	unknown	unknown	unknown	unknown	unknown	unknown
32	91	Diagramma pictum	unknown	unknown	unknown	unknown	unknown	unknown
33	64	Lethrinus lentjan	unknown	unknown	unknown	unknown	unknown	unknown
34	67	Lethrinus olivaceus	unknown	unknown	unknown	unknown	unknown	unknown
35	16	Lutjanus bohar	unknown	unknown	unknown	unknown	unknown	unknown
36	33	Paracaesio xanthura	unknown	unknown	unknown	unknown	unknown	unknown
37	68	Lethrinus amboinensis	unknown	unknown	unknown	unknown	unknown	unknown
38	51	Epinephelus chlorostigma	unknown	unknown	unknown	unknown	unknown	unknown
39	58	Epinephelus amblycephalus	unknown	unknown	unknown	unknown	unknown	unknown
40	81	Caranx sexfasciatus	unknown	unknown	unknown	unknown	unknown	unknown
41	72	Gymnocranius griseus	unknown	unknown	unknown	unknown	unknown	unknown
42	50	Epinephelus coioides	unknown	unknown	unknown	unknown	unknown	unknown
43	87	Argyrops spinifer	unknown	unknown	unknown	unknown	unknown	unknown
44	20	Lutjanus gibbus	unknown	unknown	unknown	unknown	unknown	unknown
45	31	Symphorus nematophorus	unknown	unknown	unknown	unknown	unknown	unknown
46	88	Dentex carpenteri	unknown	unknown	unknown	unknown	unknown	unknown
47	93	Cookeolus japonicus	unknown	unknown	unknown	unknown	unknown	unknown
48	53	Epinephelus heniochus	unknown	unknown	unknown	unknown	unknown	unknown
49	24	Lutjanus johnii	unknown	unknown	unknown	unknown	unknown	unknown
50	46	Epinephelus bleekeri	unknown	unknown	unknown	unknown	unknown	unknown

Table 14: Longline - Risk Level in Fisheries by Species and by Indicator in WPP 712 and 713.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	medium	high	high	high	high	high
3	8	Pristipomoides typus	medium	high	high	high	high	high
4	45	Epinephelus areolatus	low	low	low	low	medium	low
5	9	Pristipomoides filamentosus	high	high	high	high	high	high
6	1	Aphareus rutilans	low	high	high	high	high	high
7	34	Paracaesio kusakarii	unknown	unknown	unknown	unknown	unknown	unknown
8	21	Lutjanus erythropterus	low	high	low	low	low	low
9	4	Etelis sp.	unknown	unknown	unknown	unknown	unknown	unknown
10	10	Pristipomoides sieboldii	unknown	unknown	unknown	unknown	unknown	unknown
11	6	Etelis coruscans	unknown	unknown	unknown	unknown	unknown	unknown
12	22	Pinjalo lewisi	unknown	unknown	unknown	unknown	unknown	unknown
13	19	Lutjanus timorensis	low	medium	medium	high	high	medium
14	71	Gymnocranius grandoculis	high	high	high	high	medium	medium
15	18	Lutjanus sebae	high	high	high	high	high	high
16	27	Lutjanus vitta	low	low	high	high	high	high
17	35	Paracaesio stonei	unknown	unknown	unknown	unknown	unknown	unknown
18	65	Lethrinus laticaudis	unknown	unknown	unknown	unknown	unknown	unknown
19	70	Wattsia mossambica	unknown	unknown	unknown	unknown	unknown	unknown
20	92	Pomadasyds kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	unknown	unknown	unknown	unknown	unknown	unknown
22	32	Paracaesio gonzalesi	unknown	unknown	unknown	unknown	unknown	unknown
23	86	Erythrocles schlegelii	unknown	unknown	unknown	unknown	unknown	unknown
24	78	Caranx bucculentus	unknown	unknown	unknown	unknown	unknown	unknown
25	76	Carangoides chrysophrys	medium	low	medium	low	low	low
26	43	Epinephelus morrhua	low	high	low	low	medium	low
27	39	Cephalopholis sonnerati	low	low	low	low	low	low
28	15	Lutjanus argentimaculatus	low	high	low	medium	high	medium
29	89	Glaucosoma buergeri	low	medium	low	low	low	low
30	85	Seriola rivoliana	medium	medium	medium	high	high	high
31	2	Aprion virescens	low	high	medium	high	high	high
32	91	Diagramma pictum	low	medium	low	low	low	low
33	64	Lethrinus lentjan	low	medium	low	low	medium	low
34	67	Lethrinus olivaceus	low	high	low	low	low	low
35	16	Lutjanus bohar	high	high	high	high	high	high
36	33	Paracaesio xanthura	unknown	unknown	unknown	unknown	unknown	unknown
37	68	Lethrinus amboinensis	low	medium	low	low	medium	low
38	51	Epinephelus chlorostigma	unknown	unknown	unknown	unknown	unknown	unknown
39	58	Epinephelus amblycephalus	low	low	low	low	low	low
40	81	Caranx sexfasciatus	unknown	unknown	unknown	unknown	unknown	unknown
41	72	Gymnocranius griseus	low	low	low	low	low	low
42	50	Epinephelus coioides	unknown	unknown	unknown	unknown	unknown	unknown
43	87	Argyrops spinifer	low	low	low	low	low	low
44	20	Lutjanus gibbus	low	low	medium	medium	high	medium
45	31	Symphorus nematophorus	low	high	low	low	medium	low
46	88	Dentex carpenteri	unknown	unknown	unknown	unknown	unknown	unknown
47	93	Cookeolus japonicus	unknown	unknown	unknown	unknown	unknown	unknown
48	53	Epinephelus heniochus	low	medium	low	low	low	low
49	24	Lutjanus johnii	unknown	unknown	unknown	unknown	unknown	unknown
50	46	Epinephelus bleekeri	low	high	low	low	low	low

Table 15: Dropline - Risk Level in Fisheries by Species and by Indicator in WPP 714 and 715.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	high	high	high	high	high	high
3	8	Pristipomoides typus	medium	high	high	high	high	high
4	45	Epinephelus areolatus	low	low	low	low	medium	low
5	9	Pristipomoides filamentosus	high	high	high	high	high	high
6	1	Aphareus rutilans	high	high	high	high	high	high
7	34	Paracaesio kusakarii	medium	high	high	high	high	high
8	21	Lutjanus erythropterus	low	high	low	low	high	medium
9	4	Etelis sp.	high	high	high	high	high	high
10	10	Pristipomoides sieboldii	low	medium	high	high	high	high
11	6	Etelis coruscans	high	high	high	high	high	high
12	22	Pinjalo lewisi	low	medium	medium	high	high	high
13	19	Lutjanus timorensis	low	medium	high	high	high	high
14	71	Gymnocranius grandoculis	low	high	low	low	medium	low
15	18	Lutjanus sebae	high	high	high	high	high	high
16	27	Lutjanus vitta	unknown	unknown	unknown	unknown	unknown	unknown
17	35	Paracaesio stonei	low	high	high	high	high	high
18	65	Lethrinus laticaudis	low	high	low	low	high	high
19	70	Wattsia mossambica	low	medium	low	low	medium	low
20	92	Pomadasyds kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	high	high	high	high	high	high
22	32	Paracaesio gonzalesi	low	high	medium	high	high	high
23	86	Erythrocles schlegelii	low	low	low	low	low	low
24	78	Caranx bucculentus	low	low	low	low	high	low
25	76	Carangoides chrysophrys	low	low	low	low	high	medium
26	43	Epinephelus morrhua	medium	high	medium	medium	high	medium
27	39	Cephalopholis sonnerati	low	low	low	low	low	low
28	15	Lutjanus argentimaculatus	low	high	high	high	high	high
29	89	Glaucosoma buergeri	low	medium	low	low	low	low
30	85	Seriola rivoliana	medium	medium	high	high	high	high
31	2	Aprion virescens	low	high	high	high	high	high
32	91	Diagramma pictum	medium	medium	medium	low	low	low
33	64	Lethrinus lentjan	unknown	unknown	unknown	unknown	unknown	unknown
34	67	Lethrinus olivaceus	low	high	low	low	high	low
35	16	Lutjanus bohar	high	high	high	high	high	high
36	33	Paracaesio xanthura	low	medium	low	low	low	low
37	68	Lethrinus amboinensis	low	medium	low	low	high	medium
38	51	Epinephelus chlorostigma	low	low	low	low	medium	low
39	58	Epinephelus amblycephalus	low	low	low	low	low	low
40	81	Caranx sexfasciatus	low	low	low	low	low	low
41	72	Gymnocranius griseus	low	low	low	low	low	low
42	50	Epinephelus coioides	low	medium	low	low	low	low
43	87	Argyrops spinifer	low	low	low	low	high	medium
44	20	Lutjanus gibbus	low	low	low	medium	high	high
45	31	Symphorus nematophorus	medium	high	medium	high	high	high
46	88	Dentex carpenteri	low	low	low	low	medium	low
47	93	Cookeolus japonicus	low	medium	low	low	medium	low
48	53	Epinephelus heniochus	unknown	unknown	unknown	unknown	unknown	unknown
49	24	Lutjanus johnii	unknown	unknown	unknown	unknown	unknown	unknown
50	46	Epinephelus bleekeri	low	high	low	low	medium	low

Table 16: Longline - Risk Level in Fisheries by Species and by Indicator in WPP 714 and 715.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	medium	high	high	high	high	high
2	17	Lutjanus malabaricus	medium	high	high	high	high	high
3	8	Pristipomoides typus	low	high	low	medium	high	high
4	45	Epinephelus areolatus	low	low	low	low	low	low
5	9	Pristipomoides filamentosus	high	high	high	high	high	high
6	1	Aphareus rutilans	unknown	unknown	unknown	unknown	unknown	unknown
7	34	Paracaesio kusakarii	unknown	unknown	unknown	unknown	unknown	unknown
8	21	Lutjanus erythropterus	low	high	low	low	low	low
9	4	Etelis sp.	unknown	unknown	unknown	unknown	unknown	unknown
10	10	Pristipomoides sieboldii	unknown	unknown	unknown	unknown	unknown	unknown
11	6	Etelis coruscans	unknown	unknown	unknown	unknown	unknown	unknown
12	22	Pinjalo lewisi	unknown	unknown	unknown	unknown	unknown	unknown
13	19	Lutjanus timorensis	low	medium	low	low	low	low
14	71	Gymnocranius grandoculis	low	high	low	low	low	low
15	18	Lutjanus sebae	medium	high	high	high	high	high
16	27	Lutjanus vitta	low	low	low	low	high	medium
17	35	Paracaesio stonei	unknown	unknown	unknown	unknown	unknown	unknown
18	65	Lethrinus laticaudis	low	high	low	low	high	low
19	70	Wattsia mossambica	unknown	unknown	unknown	unknown	unknown	unknown
20	92	Pomadasyds kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	unknown	unknown	unknown	unknown	unknown	unknown
22	32	Paracaesio gonzalesi	unknown	unknown	unknown	unknown	unknown	unknown
23	86	Erythrocles schlegelii	unknown	unknown	unknown	unknown	unknown	unknown
24	78	Caranx bucculentus	low	low	low	low	high	medium
25	76	Carangoides chrysophrys	unknown	unknown	unknown	unknown	unknown	unknown
26	43	Epinephelus morrhua	low	high	low	low	medium	low
27	39	Cephalopholis sonnerati	low	low	low	low	low	low
28	15	Lutjanus argentimaculatus	low	high	medium	high	high	medium
29	89	Glaucosoma buergeri	unknown	unknown	unknown	unknown	unknown	unknown
30	85	Seriola rivoliana	unknown	unknown	unknown	unknown	unknown	unknown
31	2	Aprion virescens	low	high	low	medium	high	high
32	91	Diagramma pictum	low	medium	low	low	low	low
33	64	Lethrinus lentjan	low	medium	low	low	high	low
34	67	Lethrinus olivaceus	low	high	low	low	low	low
35	16	Lutjanus bohar	medium	high	medium	high	high	medium
36	33	Paracaesio xanthura	unknown	unknown	unknown	unknown	unknown	unknown
37	68	Lethrinus amboinensis	low	medium	low	low	medium	low
38	51	Epinephelus chlorostigma	unknown	unknown	unknown	unknown	unknown	unknown
39	58	Epinephelus amblycephalus	low	low	low	low	low	low
40	81	Caranx sexfasciatus	low	low	low	low	low	low
41	72	Gymnocranius griseus	unknown	unknown	unknown	unknown	unknown	unknown
42	50	Epinephelus coioides	low	medium	low	low	low	low
43	87	Argyrops spinifer	unknown	unknown	unknown	unknown	unknown	unknown
44	20	Lutjanus gibbus	low	low	low	low	high	high
45	31	Symphorus nematophorus	low	high	low	low	high	low
46	88	Dentex carpenteri	unknown	unknown	unknown	unknown	unknown	unknown
47	93	Cookeolus japonicus	unknown	unknown	unknown	unknown	unknown	unknown
48	53	Epinephelus heniochus	unknown	unknown	unknown	unknown	unknown	unknown
49	24	Lutjanus johnii	low	high	low	medium	high	medium
50	46	Epinephelus bleekeri	low	high	low	low	low	low

Table 17: Dropline - Risk Level in Fisheries by Species and by Indicator in WPP 718.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	high	high	high	high	high	high
3	8	Pristipomoides typus	high	high	high	high	high	high
4	45	Epinephelus areolatus	low	low	low	low	medium	low
5	9	Pristipomoides filamentosus	high	high	high	high	high	high
6	1	Aphareus rutilans	medium	high	high	high	high	high
7	34	Paracaesio kusakarii	low	high	high	high	high	high
8	21	Lutjanus erythropterus	low	high	low	low	high	high
9	4	Etelis sp.	high	high	high	high	high	high
10	10	Pristipomoides sieboldii	low	medium	high	high	high	high
11	6	Etelis coruscans	high	high	high	high	high	high
12	22	Pinjalo lewisi	low	medium	medium	high	high	high
13	19	Lutjanus timorensis	medium	medium	medium	high	high	high
14	71	Gymnocranius grandoculis	low	high	medium	low	medium	medium
15	18	Lutjanus sebae	high	high	high	high	high	high
16	27	Lutjanus vitta	low	low	high	high	high	high
17	35	Paracaesio stonei	low	high	high	high	high	high
18	65	Lethrinus laticaudis	unknown	unknown	unknown	unknown	unknown	unknown
19	70	Wattsia mossambica	low	medium	low	low	low	low
20	92	Pomadasyd kaakan	unknown	unknown	unknown	unknown	unknown	unknown
21	5	Etelis radiusus	high	high	high	high	high	high
22	32	Paracaesio gonzalesi	low	high	low	high	high	high
23	86	Erythrocles schlegelii	low	low	low	medium	high	medium
24	78	Caranx bucculentus	unknown	unknown	unknown	unknown	unknown	unknown
25	76	Carangoides chrysophrys	unknown	unknown	unknown	unknown	unknown	unknown
26	43	Epinephelus morrhua	medium	high	medium	medium	low	low
27	39	Cephalopholis sonnerati	low	low	low	low	low	low
28	15	Lutjanus argentimaculatus	medium	high	high	high	high	high
29	89	Glaucosoma buergeri	low	medium	low	low	medium	low
30	85	Seriola rivoliana	medium	medium	high	high	high	high
31	2	Aprion virescens	low	high	high	high	high	high
32	91	Diagramma pictum	unknown	unknown	unknown	unknown	unknown	unknown
33	64	Lethrinus lentjan	low	medium	low	low	medium	low
34	67	Lethrinus olivaceus	low	high	low	low	high	low
35	16	Lutjanus bohar	high	high	high	high	high	high
36	33	Paracaesio xanthura	unknown	unknown	unknown	unknown	unknown	unknown
37	68	Lethrinus amboinensis	unknown	unknown	unknown	unknown	unknown	unknown
38	51	Epinephelus chlorostigma	low	low	low	low	medium	low
39	58	Epinephelus amblycephalus	unknown	unknown	unknown	unknown	unknown	unknown
40	81	Caranx sexfasciatus	low	low	low	low	low	low
41	72	Gymnocranius griseus	unknown	unknown	unknown	unknown	unknown	unknown
42	50	Epinephelus coioides	unknown	unknown	unknown	unknown	unknown	unknown
43	87	Argyrops spinifer	low	low	low	medium	high	high
44	20	Lutjanus gibbus	low	low	high	high	high	high
45	31	Symphorus nematophorus	unknown	unknown	unknown	unknown	unknown	unknown
46	88	Dentex carpenteri	low	low	low	low	low	low
47	93	Cookeolus japonicus	low	medium	low	low	low	low
48	53	Epinephelus heniochus	unknown	unknown	unknown	unknown	unknown	unknown
49	24	Lutjanus johnii	high	high	high	high	high	high
50	46	Epinephelus bleekeri	unknown	unknown	unknown	unknown	unknown	unknown

Table 18: Longline - Risk Level in Fisheries by Species and by Indicator in WPP 718.
Ranking below is overall ranking including all gear types and fishing areas.

Rank	#ID	Species	Immature	Trade Limit	Exploitation	Mega Spawn	F vs M	SPR
1	7	Pristipomoides multidentis	high	high	high	high	high	high
2	17	Lutjanus malabaricus	medium	high	high	high	high	high
3	8	Pristipomoides typus	medium	high	high	high	high	high
4	45	Epinephelus areolatus	low	low	low	low	medium	low
5	9	Pristipomoides filamentosus	high	high	high	high	high	high
6	1	Aphareus rutilans	unknown	unknown	unknown	unknown	unknown	unknown
7	34	Paracaesio kusakarii	unknown	unknown	unknown	unknown	unknown	unknown
8	21	Lutjanus erythropterus	low	high	low	low	high	low
9	4	Etelis sp.	high	high	high	high	high	high
10	10	Pristipomoides sieboldii	unknown	unknown	unknown	unknown	unknown	unknown
11	6	Etelis coruscans	unknown	unknown	unknown	unknown	unknown	unknown
12	22	Pinjalo lewisi	unknown	unknown	unknown	unknown	unknown	unknown
13	19	Lutjanus timorensis	low	medium	low	low	low	low
14	71	Gymnocranius grandoculis	low	high	low	low	medium	low
15	18	Lutjanus sebae	high	high	high	high	high	high
16	27	Lutjanus vitta	low	low	high	high	high	high
17	35	Paracaesio stonei	unknown	unknown	unknown	unknown	unknown	unknown
18	65	Lethrinus laticaudis	low	high	low	low	high	low
19	70	Wattsia mossambica	unknown	unknown	unknown	unknown	unknown	unknown
20	92	Pomadasyds kaakan	low	high	low	low	high	medium
21	5	Etelis radiusus	unknown	unknown	unknown	unknown	unknown	unknown
22	32	Paracaesio gonzalesi	unknown	unknown	unknown	unknown	unknown	unknown
23	86	Erythrocles schlegelii	unknown	unknown	unknown	unknown	unknown	unknown
24	78	Caranx bucculentus	medium	low	high	high	high	high
25	76	Carangoides chrysophrys	low	low	low	low	medium	low
26	43	Epinephelus morrhua	unknown	unknown	unknown	unknown	unknown	unknown
27	39	Cephalopholis sonnerati	low	low	low	low	low	low
28	15	Lutjanus argentimaculatus	medium	high	high	high	high	high
29	89	Glaucosoma buergeri	unknown	unknown	unknown	unknown	unknown	unknown
30	85	Seriola rivoliana	unknown	unknown	unknown	unknown	unknown	unknown
31	2	Aprion virescens	unknown	unknown	unknown	unknown	unknown	unknown
32	91	Diagramma pictum	unknown	unknown	unknown	unknown	unknown	unknown
33	64	Lethrinus lentjan	low	medium	low	low	low	low
34	67	Lethrinus olivaceus	unknown	unknown	unknown	unknown	unknown	unknown
35	16	Lutjanus bohar	medium	high	high	high	high	high
36	33	Paracaesio xanthura	unknown	unknown	unknown	unknown	unknown	unknown
37	68	Lethrinus amboinensis	unknown	unknown	unknown	unknown	unknown	unknown
38	51	Epinephelus chlorostigma	unknown	unknown	unknown	unknown	unknown	unknown
39	58	Epinephelus amblycephalus	low	low	low	low	low	low
40	81	Caranx sexfasciatus	unknown	unknown	unknown	unknown	unknown	unknown
41	72	Gymnocranius griseus	unknown	unknown	unknown	unknown	unknown	unknown
42	50	Epinephelus coioides	low	medium	low	low	medium	low
43	87	Argyrops spinifer	low	low	low	low	medium	low
44	20	Lutjanus gibbus	unknown	unknown	unknown	unknown	unknown	unknown
45	31	Symphorus nematophorus	low	high	high	high	high	high
46	88	Dentex carpenteri	low	low	low	low	medium	low
47	93	Cookeolus japonicus	unknown	unknown	unknown	unknown	unknown	unknown
48	53	Epinephelus heniochus	unknown	unknown	unknown	unknown	unknown	unknown
49	24	Lutjanus johnii	low	high	medium	medium	high	medium
50	46	Epinephelus bleekeri	low	high	low	low	low	low

