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LAMPIRAN

Lampiran 1. Hasil uji *Kruskal-Wallis* berdasarkan bulan pengamatan dan *hauling*

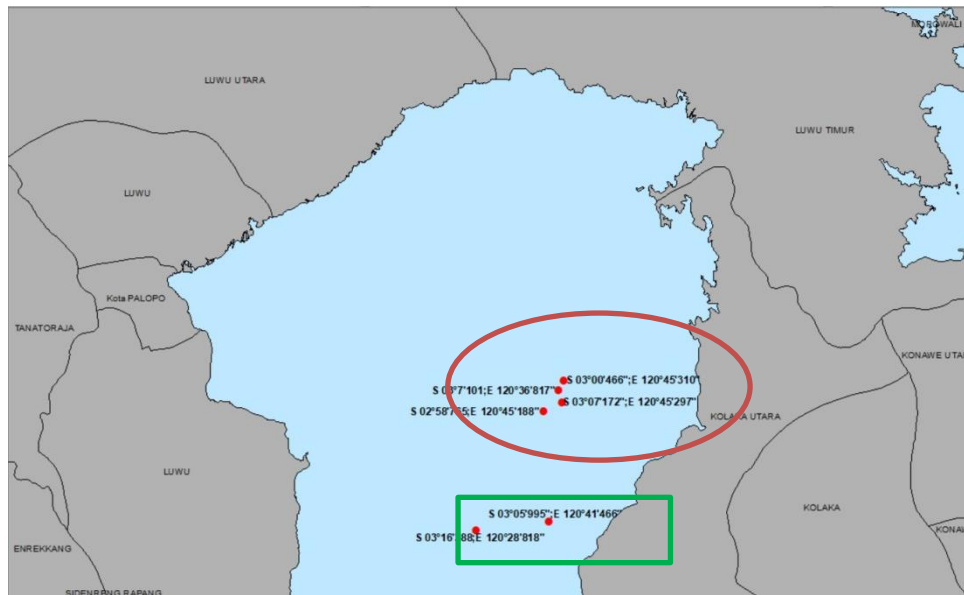
Each node shows the sample average rank of Hauling.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Des 2022 Hauling 2-Des 2022 Hauling 1	21.662	23.760	.912	.362	1.000
Des 2022 Hauling 2-Jan 2022 Hauling 1	-55.979	29.785	-1.879	.060	.903
Des 2022 Hauling 2-Jan 2022 Hauling 2	-97.675	29.785	-3.279	.001	.016
Des 2022 Hauling 2-Nov 2022 Hauling 2	98.410	28.488	3.454	.001	.008
Des 2022 Hauling 2-Nov 2022 Hauling 1	144.943	28.488	5.088	.000	.000
Des 2022 Hauling 1-Jan 2022 Hauling 1	-34.317	29.785	-1.152	.249	1.000
Des 2022 Hauling 1-Jan 2022 Hauling 2	-76.012	29.785	-2.552	.011	.161
Des 2022 Hauling 1-Nov 2022 Hauling 2	76.748	28.488	2.694	.007	.106
Des 2022 Hauling 1-Nov 2022 Hauling 1	123.281	28.488	4.328	.000	.000
Jan 2022 Hauling 1-Jan 2022 Hauling 2	-41.695	34.782	-1.199	.231	1.000
Jan 2022 Hauling 1-Nov 2022 Hauling 2	42.430	33.677	1.260	.208	1.000
Jan 2022 Hauling 1-Nov 2022 Hauling 1	88.964	33.677	2.642	.008	.124
Jan 2022 Hauling 2-Nov 2022 Hauling 2	.735	33.677	.022	.983	1.000
Jan 2022 Hauling 2-Nov 2022 Hauling 1	47.268	33.677	1.404	.160	1.000
Nov 2022 Hauling 2-Nov 2022 Hauling 1	46.533	32.535	1.430	.153	1.000

Lampiran 2. Hasil uji Kruskal-Wallis berdasarkan daerah penangkapan dan *hauling*
 Each node shows the sample average rank of DPI.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
DPI 2 Hauling 2-DPI 2 Hauling 1	1.270	21.112	.060	.952	1.000
DPI 2 Hauling 2-DPI 1 Hauling 2	59.547	24.653	2.415	.016	.094
DPI 2 Hauling 2-DPI 1 Hauling 1	94.202	24.653	3.821	.000	.001
DPI 2 Hauling 1-DPI 1 Hauling 2	58.277	24.653	2.364	.018	.109
DPI 2 Hauling 1-DPI 1 Hauling 1	92.931	24.653	3.770	.000	.001
DPI 1 Hauling 2-DPI 1 Hauling 1	34.655	27.746	1.249	.212	1.000

Lampiran 2. Lanjutan



Gambar 24. Peta penentuan titik koordinat pada daerah penangkapan ikan layang (*Decapterus russelli*) yang tertangkap di perairan Teluk Bone Kota Palopo

Lampiran 3. Hasil Uji Kruskal-Wallis tingkat kematangan gonad ikan layang (*Decapterus russelli*) hauling 1 dan 2 pada bulan November 2022

Each node shows the sample average rank of TKG.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hauling 1 TKG 5-Hauling 2 TKG 1	-2,175	40,457	-.054	.957	1,000
Hauling 1 TKG 5-Hauling 1 TKG 1	10,741	40,475	.265	.791	1,000
Hauling 1 TKG 5-Hauling 2 TKG 2	-19,250	40,884	-.471	.638	1,000
Hauling 1 TKG 5-Hauling 2 TKG 3	-23,600	44,960	-.525	.600	1,000
Hauling 1 TKG 5-Hauling 1 TKG 2	48,012	40,850	1,175	.240	1,000
Hauling 1 TKG 5-Hauling 1 TKG 3	70,444	45,533	1,547	.122	1,000
Hauling 1 TKG 5-Hauling 1 TKG 4	86,364	44,486	1,941	.052	1,000
Hauling 1 TKG 5-Hauling 2 TKG 4	-86,643	47,131	-1,838	.066	1,000
Hauling 1 TKG 5-Hauling 2 TKG 5	-118,250	48,295	-2,449	.014	.646
Hauling 2 TKG 1-Hauling 1 TKG 1	8,566	12,851	.667	.505	1,000
Hauling 2 TKG 1-Hauling 2 TKG 2	-17,075	14,087	-1,212	.225	1,000
Hauling 2 TKG 1-Hauling 2 TKG 3	-21,425	23,416	-.915	.360	1,000
Hauling 2 TKG 1-Hauling 1 TKG 2	45,837	13,986	3,277	.001	.047
Hauling 2 TKG 1-Hauling 1 TKG 3	68,269	24,498	2,787	.005	.240
Hauling 2 TKG 1-Hauling 1 TKG 4	84,188	22,492	3,743	.000	.008
Hauling 2 TKG 1-Hauling 2 TKG 4	-84,467	27,354	-3,088	.002	.091
Hauling 2 TKG 1-Hauling 2 TKG 5	-116,075	29,314	-3,960	.000	.003
Hauling 1 TKG 1-Hauling 2 TKG 2	-8,509	14,139	-.602	.547	1,000
Hauling 1 TKG 1-Hauling 2 TKG 3	-12,859	23,447	-.548	.583	1,000
Hauling 1 TKG 1-Hauling 1 TKG 2	-37,271	14,038	-2,655	.008	.357
Hauling 1 TKG 1-Hauling 1 TKG 3	-59,703	24,528	-2,434	.015	.672
Hauling 1 TKG 1-Hauling 1 TKG 4	-75,623	22,525	-3,357	.001	.035
Hauling 1 TKG 1-Hauling 2 TKG 4	-75,902	27,380	-2,772	.006	.251
Hauling 1 TKG 1-Hauling 2 TKG 5	-107,509	29,339	-3,664	.000	.011
Hauling 2 TKG 2-Hauling 2 TKG 3	-4,350	24,147	-.180	.857	1,000
Hauling 2 TKG 2-Hauling 1 TKG 2	28,762	15,179	1,895	.058	1,000
Hauling 2 TKG 2-Hauling 1 TKG 3	51,194	25,198	2,032	.042	1,000
Hauling 2 TKG 2-Hauling 1 TKG 4	67,114	23,253	2,886	.004	.175
Hauling 2 TKG 2-Hauling 2 TKG 4	-67,393	27,982	-2,408	.016	.721
Hauling 2 TKG 2-Hauling 2 TKG 5	-99,000	29,901	-3,311	.001	.042
Hauling 2 TKG 3-Hauling 1 TKG 2	24,412	24,088	1,013	.311	1,000
Hauling 2 TKG 3-Hauling 1 TKG 3	46,844	31,381	1,493	.136	1,000
Hauling 2 TKG 3-Hauling 1 TKG 4	62,764	29,842	2,103	.035	1,000
Hauling 2 TKG 3-Hauling 2 TKG 4	-63,043	33,658	-1,873	.061	1,000
Hauling 2 TKG 3-Hauling 2 TKG 5	-94,650	35,269	-2,684	.007	.328
Hauling 1 TKG 2-Hauling 1 TKG 3	-22,432	25,141	-.892	.372	1,000
Hauling 1 TKG 2-Hauling 1 TKG 4	-38,351	23,191	-1,654	.098	1,000
Hauling 1 TKG 2-Hauling 2 TKG 4	-38,631	27,931	-1,383	.167	1,000
Hauling 1 TKG 2-Hauling 2 TKG 5	-70,238	29,853	-2,353	.019	.839
Hauling 1 TKG 3-Hauling 1 TKG 4	-15,919	30,698	-.519	.604	1,000
Hauling 1 TKG 3-Hauling 2 TKG 4	-16,198	34,419	-.471	.638	1,000
Hauling 1 TKG 3-Hauling 2 TKG 5	-47,806	35,997	-1,328	.184	1,000
Hauling 1 TKG 4-Hauling 2 TKG 4	-.279	33,022	-.008	.993	1,000
Hauling 1 TKG 4-Hauling 2 TKG 5	-31,886	34,663	-.920	.358	1,000
Hauling 2 TKG 4-Hauling 2 TKG 5	-31,607	37,998	-.832	.406	1,000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Lampiran 4. Hasil uji Kruskal-Wallis tingkat kematangan gonad ikan layang (*Decapterus russelli*) hauling 1 dan 2 pada bulan Desember 2022

Each node shows the sample average rank of TKG.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hauling 2 TKG 1-Hauling 1 TKG 1	27.398	17.859	1.534	.125	1.000
Hauling 2 TKG 1-Hauling 2 TKG 3	-64.280	27.245	-2.359	.018	.659
Hauling 2 TKG 1-Hauling 1 TKG 2	66.471	18.499	3.593	.000	.012
Hauling 2 TKG 1-Hauling 2 TKG 2	-92.338	21.117	-4.373	.000	.000
Hauling 2 TKG 1-Hauling 2 TKG 5	-100.368	43.148	-2.326	.020	.720
Hauling 2 TKG 1-Hauling 1 TKG 3	112.340	24.034	4.674	.000	.000
Hauling 2 TKG 1-Hauling 2 TKG 4	-120.431	24.287	-4.959	.000	.000
Hauling 2 TKG 1-Hauling 1 TKG 4	126.062	31.713	3.975	.000	.003
Hauling 1 TKG 1-Hauling 2 TKG 3	-36.882	27.604	-1.336	.182	1.000
Hauling 1 TKG 1-Hauling 1 TKG 2	-39.072	19.025	-2.054	.040	1.000
Hauling 1 TKG 1-Hauling 2 TKG 2	-64.940	21.579	-3.009	.003	.094
Hauling 1 TKG 1-Hauling 2 TKG 5	-72.969	43.376	-1.682	.093	1.000
Hauling 1 TKG 1-Hauling 1 TKG 3	-84.942	24.441	-3.475	.001	.018
Hauling 1 TKG 1-Hauling 2 TKG 4	-93.033	24.690	-3.768	.000	.006
Hauling 1 TKG 1-Hauling 1 TKG 4	-98.664	32.022	-3.081	.002	.074
Hauling 2 TKG 3-Hauling 1 TKG 2	2.190	28.023	.078	.938	1.000
Hauling 2 TKG 3-Hauling 2 TKG 2	28.058	29.816	.941	.347	1.000
Hauling 2 TKG 3-Hauling 2 TKG 5	-36.088	48.009	-.752	.452	1.000
Hauling 2 TKG 3-Hauling 1 TKG 3	48.060	31.949	1.504	.133	1.000
Hauling 2 TKG 3-Hauling 2 TKG 4	-56.151	32.139	-1.747	.081	1.000
Hauling 2 TKG 3-Hauling 1 TKG 4	61.782	38.062	1.623	.105	1.000
Hauling 1 TKG 2-Hauling 2 TKG 2	-25.867	22.112	-1.170	.242	1.000
Hauling 1 TKG 2-Hauling 2 TKG 5	-33.897	43.644	-.777	.437	1.000
Hauling 1 TKG 2-Hauling 1 TKG 3	-45.869	24.913	-1.841	.066	1.000
Hauling 1 TKG 2-Hauling 2 TKG 4	-53.961	25.157	-2.145	.032	1.000
Hauling 1 TKG 2-Hauling 1 TKG 4	-59.592	32.384	-1.840	.066	1.000
Hauling 2 TKG 2-Hauling 2 TKG 5	-8.030	44.816	-.179	.858	1.000
Hauling 2 TKG 2-Hauling 1 TKG 3	20.002	26.914	.743	.457	1.000
Hauling 2 TKG 2-Hauling 2 TKG 4	-28.093	27.140	-1.035	.301	1.000
Hauling 2 TKG 2-Hauling 1 TKG 4	33.724	33.947	.993	.320	1.000
Hauling 2 TKG 5-Hauling 1 TKG 3	11.972	46.262	.259	.796	1.000
Hauling 2 TKG 5-Hauling 2 TKG 4	20.063	46.394	.432	.665	1.000
Hauling 2 TKG 5-Hauling 1 TKG 4	25.694	50.678	.507	.612	1.000
Hauling 1 TKG 3-Hauling 2 TKG 4	-8.091	29.467	-.275	.784	1.000
Hauling 1 TKG 3-Hauling 1 TKG 4	-13.722	35.835	-.383	.702	1.000
Hauling 2 TKG 4-Hauling 1 TKG 4	5.631	36.005	.156	.876	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Lampiran 5. Hasil uji Kruskal-Wallis tingkat kematangan gonad ikan layang *Decaptrus russelli*) gabungan *hauling 1* dan *2*

Each node shows the sample average rank of TKG.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Hauling 1 TKG 1-Hauling 2 TKG 1	.000	35.810	.000	1.000	1.000
Hauling 1 TKG 1-Hauling 1 TKG 2	-209.776	39.023	-5.376	.000	.000
Hauling 1 TKG 1-Hauling 2 TKG 2	-209.776	39.023	-5.376	.000	.000
Hauling 1 TKG 1-Hauling 1 TKG 3	-295.282	53.198	-5.551	.000	.000
Hauling 1 TKG 1-Hauling 2 TKG 3	-295.282	53.198	-5.551	.000	.000
Hauling 1 TKG 1-Hauling 1 TKG 5	-372.015	118.342	-3.144	.002	.075
Hauling 1 TKG 1-Hauling 2 TKG 5	-372.015	118.342	-3.144	.002	.075
Hauling 1 TKG 1-Hauling 1 TKG 4	-388.608	61.448	-6.324	.000	.000
Hauling 1 TKG 1-Hauling 2 TKG 4	-388.608	61.448	-6.324	.000	.000
Hauling 2 TKG 1-Hauling 1 TKG 2	209.776	39.023	5.376	.000	.000
Hauling 2 TKG 1-Hauling 2 TKG 2	-209.776	39.023	-5.376	.000	.000
Hauling 2 TKG 1-Hauling 1 TKG 3	295.282	53.198	5.551	.000	.000
Hauling 2 TKG 1-Hauling 2 TKG 3	-295.282	53.198	-5.551	.000	.000
Hauling 2 TKG 1-Hauling 1 TKG 5	372.015	118.342	3.144	.002	.075
Hauling 2 TKG 1-Hauling 2 TKG 5	-372.015	118.342	-3.144	.002	.075
Hauling 2 TKG 1-Hauling 1 TKG 4	388.608	61.448	6.324	.000	.000
Hauling 2 TKG 1-Hauling 2 TKG 4	-388.608	61.448	-6.324	.000	.000
Hauling 1 TKG 2-Hauling 2 TKG 2	.000	41.991	.000	1.000	1.000
Hauling 1 TKG 2-Hauling 1 TKG 3	-85.507	55.412	-1.543	.123	1.000
Hauling 1 TKG 2-Hauling 2 TKG 3	-85.507	55.412	-1.543	.123	1.000
Hauling 1 TKG 2-Hauling 1 TKG 5	-162.240	119.353	-1.359	.174	1.000
Hauling 1 TKG 2-Hauling 2 TKG 5	-162.240	119.353	-1.359	.174	1.000
Hauling 1 TKG 2-Hauling 1 TKG 4	-178.832	63.374	-2.822	.005	.215
Hauling 1 TKG 2-Hauling 2 TKG 4	-178.832	63.374	-2.822	.005	.215
Hauling 2 TKG 2-Hauling 1 TKG 3	85.507	55.412	1.543	.123	1.000
Hauling 2 TKG 2-Hauling 2 TKG 3	-85.507	55.412	-1.543	.123	1.000
Hauling 2 TKG 2-Hauling 1 TKG 5	162.240	119.353	1.359	.174	1.000
Hauling 2 TKG 2-Hauling 2 TKG 5	-162.240	119.353	-1.359	.174	1.000
Hauling 2 TKG 2-Hauling 1 TKG 4	178.832	63.374	2.822	.005	.215
Hauling 2 TKG 2-Hauling 2 TKG 4	-178.832	63.374	-2.822	.005	.215
Hauling 1 TKG 3-Hauling 2 TKG 3	.000	66.164	.000	1.000	1.000
Hauling 1 TKG 3-Hauling 1 TKG 5	-76.733	124.709	-.615	.538	1.000
Hauling 1 TKG 3-Hauling 2 TKG 5	-76.733	124.709	-.615	.538	1.000
Hauling 1 TKG 3-Hauling 1 TKG 4	-93.325	72.962	-1.279	.201	1.000
Hauling 1 TKG 3-Hauling 2 TKG 4	-93.325	72.962	-1.279	.201	1.000
Hauling 2 TKG 3-Hauling 1 TKG 5	76.733	124.709	.615	.538	1.000
Hauling 2 TKG 3-Hauling 2 TKG 5	-76.733	124.709	-.615	.538	1.000
Hauling 2 TKG 3-Hauling 1 TKG 4	93.325	72.962	1.279	.201	1.000
Hauling 2 TKG 3-Hauling 2 TKG 4	-93.325	72.962	-1.279	.201	1.000
Hauling 1 TKG 5-Hauling 2 TKG 5	.000	163.484	.000	1.000	1.000
Hauling 1 TKG 5-Hauling 1 TKG 4	16.593	128.445	.129	.897	1.000
Hauling 1 TKG 5-Hauling 2 TKG 4	-16.593	128.445	-.129	.897	1.000
Hauling 2 TKG 5-Hauling 1 TKG 4	16.593	128.445	.129	.897	1.000
Hauling 2 TKG 5-Hauling 2 TKG 4	16.593	128.445	.129	.897	1.000
Hauling 1 TKG 4-Hauling 2 TKG 4	.000	79.179	.000	1.000	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Lampiran 6. Hasil uji Kruskal-Wallis tingkat kematangan gonad ikan layang *Decaptrus russelli*) pada DPI 1 hauling 1 dan 2

Each node shows the sample average rank of TKG.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 1 TKG 5	2.716	55.038	.049	.961	1.000
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 2 TKG 1	7.630	15.173	.503	.615	1.000
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 2 TKG 3	-31.916	26.395	-1.209	.227	1.000
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 2 TKG 2	-34.281	16.600	-2.065	.039	1.000
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 1 TKG 2	60.776	16.425	3.700	.000	.010
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 1 TKG 3	98.460	28.043	3.511	.000	.020
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 1 TKG 4	115.911	24.485	4.734	.000	.000
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 2 TKG 4	-126.550	29.026	-4.360	.000	.001
DPI 1 Hauling 2 TKG 1-DPI 1 Hauling 2 TKG 5	-162.526	36.921	-4.402	.000	.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 1 TKG 1	4.913	55.066	.089	.929	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 2 TKG 3	-29.200	59.150	-.494	.622	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 2 TKG 2	-31.565	55.476	-.569	.569	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 1 TKG 2	58.060	55.424	1.048	.295	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 1 TKG 3	95.744	59.904	1.598	.110	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 1 TKG 4	113.194	58.323	1.941	.052	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 2 TKG 4	-123.833	60.370	-2.051	.040	1.000
DPI 1 Hauling 1 TKG 5-DPI 1 Hauling 2 TKG 5	-159.810	64.538	-2.476	.013	.598
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 2 TKG 3	-24.287	26.453	-.918	.359	1.000
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 2 TKG 2	-26.651	16.691	-1.597	.110	1.000
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 1 TKG 2	-53.146	16.517	-3.218	.001	.058
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 1 TKG 3	-90.830	28.097	-3.233	.001	.055
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 1 TKG 4	-108.281	24.547	-4.411	.000	.000
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 2 TKG 4	-118.920	29.078	-4.090	.000	.002
DPI 1 Hauling 1 TKG 1-DPI 1 Hauling 2 TKG 5	-154.896	36.962	-4.191	.000	.001
DPI 1 Hauling 2 TKG 3-DPI 1 Hauling 1 TKG 2	2.365	27.297	.087	.931	1.000
DPI 1 Hauling 2 TKG 3-DPI 1 Hauling 1 TKG 2	28.860	27.190	1.061	.289	1.000
DPI 1 Hauling 2 TKG 3-DPI 1 Hauling 1 TKG 3	66.544	35.440	1.878	.060	1.000
DPI 1 Hauling 2 TKG 3-DPI 1 Hauling 1 TKG 4	83.994	32.697	2.569	.010	.459
DPI 1 Hauling 2 TKG 3-DPI 1 Hauling 2 TKG 4	-94.633	36.222	-2.613	.009	.404
DPI 1 Hauling 2 TKG 3-DPI 1 Hauling 2 TKG 5	-130.610	42.810	-3.051	.002	.103
DPI 1 Hauling 2 TKG 2-DPI 1 Hauling 1 TKG 2	26.495	17.837	1.485	.137	1.000
DPI 1 Hauling 2 TKG 2-DPI 1 Hauling 1 TKG 3	64.179	28.893	2.221	.026	1.000
DPI 1 Hauling 2 TKG 2-DPI 1 Hauling 1 TKG 4	81.630	25.454	3.207	.001	.060
DPI 1 Hauling 2 TKG 2-DPI 1 Hauling 2 TKG 4	-92.269	29.848	-3.091	.002	.090
DPI 1 Hauling 2 TKG 2-DPI 1 Hauling 2 TKG 5	-128.245	37.570	-3.413	.001	.029
DPI 1 Hauling 1 TKG 2-DPI 1 Hauling 1 TKG 3	-37.684	28.793	-1.309	.191	1.000
DPI 1 Hauling 1 TKG 2-DPI 1 Hauling 1 TKG 4	-55.135	25.340	-2.176	.030	1.000
DPI 1 Hauling 1 TKG 2-DPI 1 Hauling 2 TKG 4	-65.774	29.751	-2.211	.027	1.000
DPI 1 Hauling 1 TKG 2-DPI 1 Hauling 2 TKG 5	-101.750	37.493	-2.714	.007	.299
DPI 1 Hauling 1 TKG 3-DPI 1 Hauling 1 TKG 4	-17.451	34.041	-.513	.608	1.000
DPI 1 Hauling 1 TKG 3-DPI 1 Hauling 2 TKG 4	-28.090	37.440	-.750	.453	1.000
DPI 1 Hauling 1 TKG 3-DPI 1 Hauling 2 TKG 5	-64.066	43.845	-1.461	.144	1.000
DPI 1 Hauling 1 TKG 4-DPI 1 Hauling 2 TKG 4	-10.639	34.855	-.305	.760	1.000
DPI 1 Hauling 1 TKG 4-DPI 1 Hauling 2 TKG 5	-46.615	41.659	-1.119	.263	1.000
DPI 1 Hauling 2 TKG 4-DPI 1 Hauling 2 TKG 5	-35.976	44.480	-.809	.419	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Lampiran 7. Hasil uji Kruskal-Wallis tingkat kematangan gonad ikan layang *Decaptrus russelli*) pada DPI 2 hauling 1 dan 2

Each node shows the sample average rank of TKG.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 2 TKG 1	-129.272	158.758	-.814	.415	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 1 TKG 1	152.987	158.790	.963	.335	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 1 TKG 2	187.163	158.885	1.178	.239	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 2 TKG 5	-208.250	167.719	-1.242	.214	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 2 TKG 3	-224.976	159.998	-1.406	.160	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 1 TKG 4	225.167	163.313	1.379	.168	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 2 TKG 2	-225.716	159.192	-1.418	.156	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 2 TKG 4	-231.014	160.308	-1.441	.150	1.000
DPI 2 Hauling 1, TKG 5-DPI 2 Hauling 1 TKG 3	250.837	159.836	1.569	.117	1.000
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 1 TKG 1	23.715	20.252	1.171	.242	1.000
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 5	57.891	20.987	2.758	.006	.261
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 5	-78.978	57.668	-1.370	.171	1.000
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 3	-95.704	28.202	-3.393	.001	.031
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 2	95.895	43.208	2.219	.026	1.000
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 2	-96.444	23.193	-4.158	.000	.001
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 4	-101.742	29.910	-3.402	.001	.030
DPI 2 Hauling 2, TKG 1-DPI 2 Hauling 2 TKG 3	121.565	27.269	4.458	.000	.000
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 2 TKG 2	-34.176	21.226	-1.610	.107	1.000
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 2 TKG 5	-55.263	57.755	-.957	.339	1.000
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 2 TKG 3	-71.989	28.381	-2.537	.011	.504
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 1 TKG 4	-72.179	43.325	-1.666	.096	1.000
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 2 TKG 2	-72.729	23.410	-3.107	.002	.085
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 2 TKG 4	-78.026	30.078	-2.594	.009	.427
DPI 2 Hauling 1, TKG 1-DPI 2 Hauling 1 TKG 3	-97.850	27.453	-3.564	.000	.016
DPI 2 Hauling 1, TKG 2-DPI 2 Hauling 2 TKG 5	-21.087	58.017	-.363	.716	1.000
DPI 2 Hauling 1, TKG 2-DPI 2 Hauling 2 TKG 1	-37.813	28.910	-1.308	.191	1.000
DPI 2 Hauling 1, TKG 2-DPI 2 Hauling 1 TKG 4	-38.003	43.673	-.870	.384	1.000
DPI 2 Hauling 1, TKG 2-DPI 2 Hauling 2 TKG 4	-38.553	24.048	-1.603	.109	1.000
DPI 2 Hauling 1, TKG 2-DPI 2 Hauling 2 TKG 1	-43.850	30.577	-1.434	.152	1.000
DPI 2 Hauling 1, TKG 2-DPI 2 Hauling 1 TKG 3	-63.673	28.000	-2.274	.023	1.000
DPI 2 Hauling 2, TKG 5-DPI 2 Hauling 1 TKG 4	16.726	60.999	.274	.784	1.000
DPI 2 Hauling 2, TKG 5-DPI 2 Hauling 2 TKG 3	16.917	69.228	.244	.807	1.000
DPI 2 Hauling 2, TKG 5-DPI 2 Hauling 2 TKG 2	17.466	58.851	.297	.767	1.000
DPI 2 Hauling 2, TKG 5-DPI 2 Hauling 2 TKG 4	22.764	61.807	.368	.713	1.000
DPI 2 Hauling 2, TKG 5-DPI 2 Hauling 1 TKG 3	42.587	60.573	.703	.482	1.000
DPI 2 Hauling 2, TKG 3-DPI 2 Hauling 1 TKG 4	.190	47.563	.004	.997	1.000
DPI 2 Hauling 2, TKG 3-DPI 2 Hauling 2 TKG 2	.740	30.549	.024	.981	1.000
DPI 2 Hauling 2, TKG 3-DPI 2 Hauling 2 TKG 4	-6.038	35.915	-.168	.866	1.000
DPI 2 Hauling 2, TKG 3-DPI 2 Hauling 1 TKG 3	25.861	33.748	.766	.443	1.000
DPI 2 Hauling 1, TKG 4-DPI 2 Hauling 2 TKG 2	-.550	44.775	-.012	.990	1.000
DPI 2 Hauling 1, TKG 4-DPI 2 Hauling 2 TKG 4	-5.847	48.595	-.120	.904	1.000
DPI 2 Hauling 1, TKG 4-DPI 2 Hauling 1 TKG 3	25.670	47.016	.546	.585	1.000
DPI 2 Hauling 2, TKG 2-DPI 2 Hauling 2 TKG 4	-5.298	32.132	-.165	.869	1.000
DPI 2 Hauling 2, TKG 2-DPI 2 Hauling 1 TKG 3	25.121	29.689	.846	.397	1.000
DPI 2 Hauling 2, TKG 4-DPI 2 Hauling 1 TKG 3	19.823	35.187	.563	.573	1.000

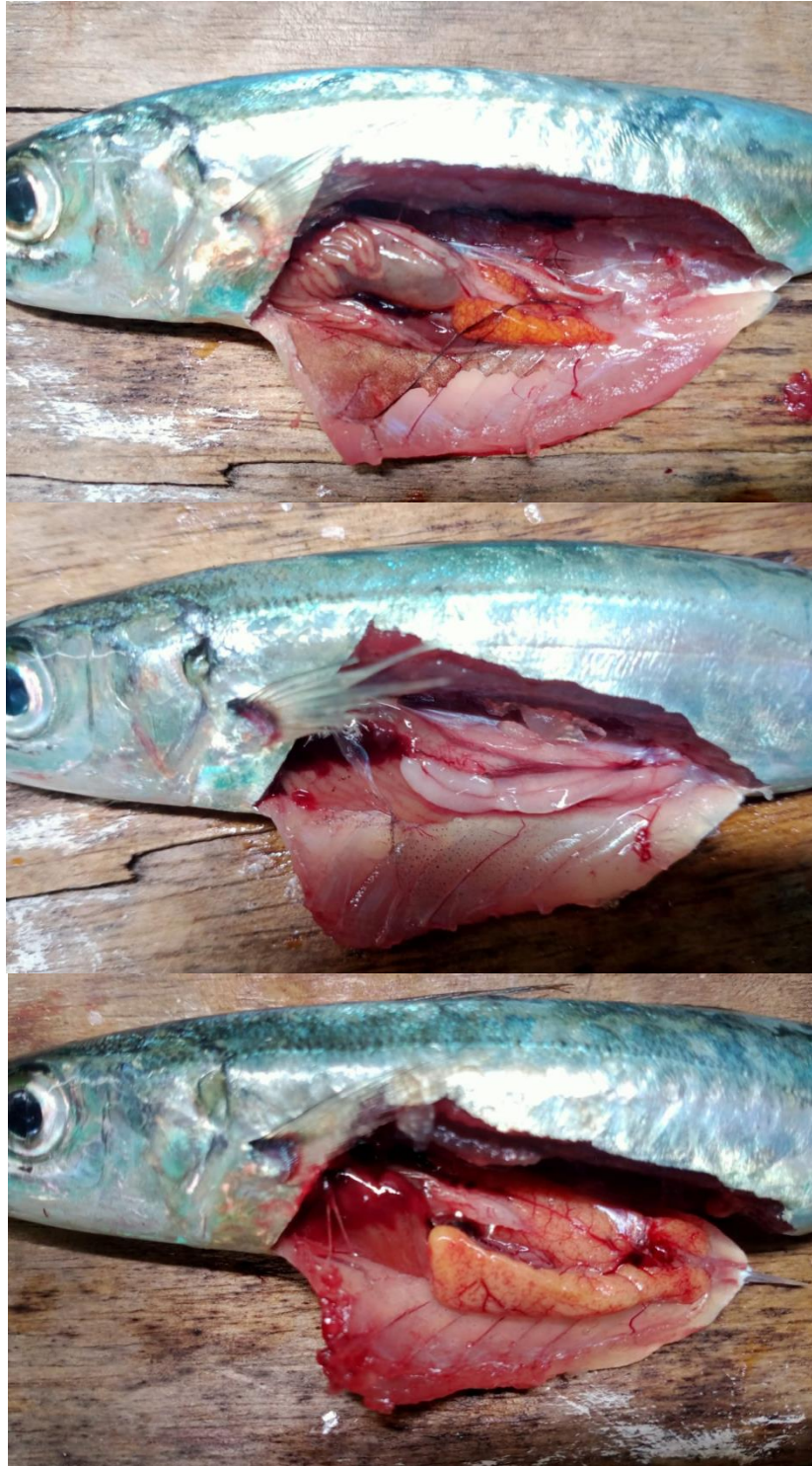
Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Lampiran 8. Foto kegiatan dan pengukuran serta pembedahan sampel selama di lokasi penelitian





Gambar 25. Pengukuran panjang ikan layang (*Decapterus russelli*)





Gambar 26. Pembedahan sampel ikan layang (*Decapterus russelli*) untuk mengetahui tingkat kematangan gonad



Gambar 27. Penyortiran ikan diatas bagan perahu