

Little Hope

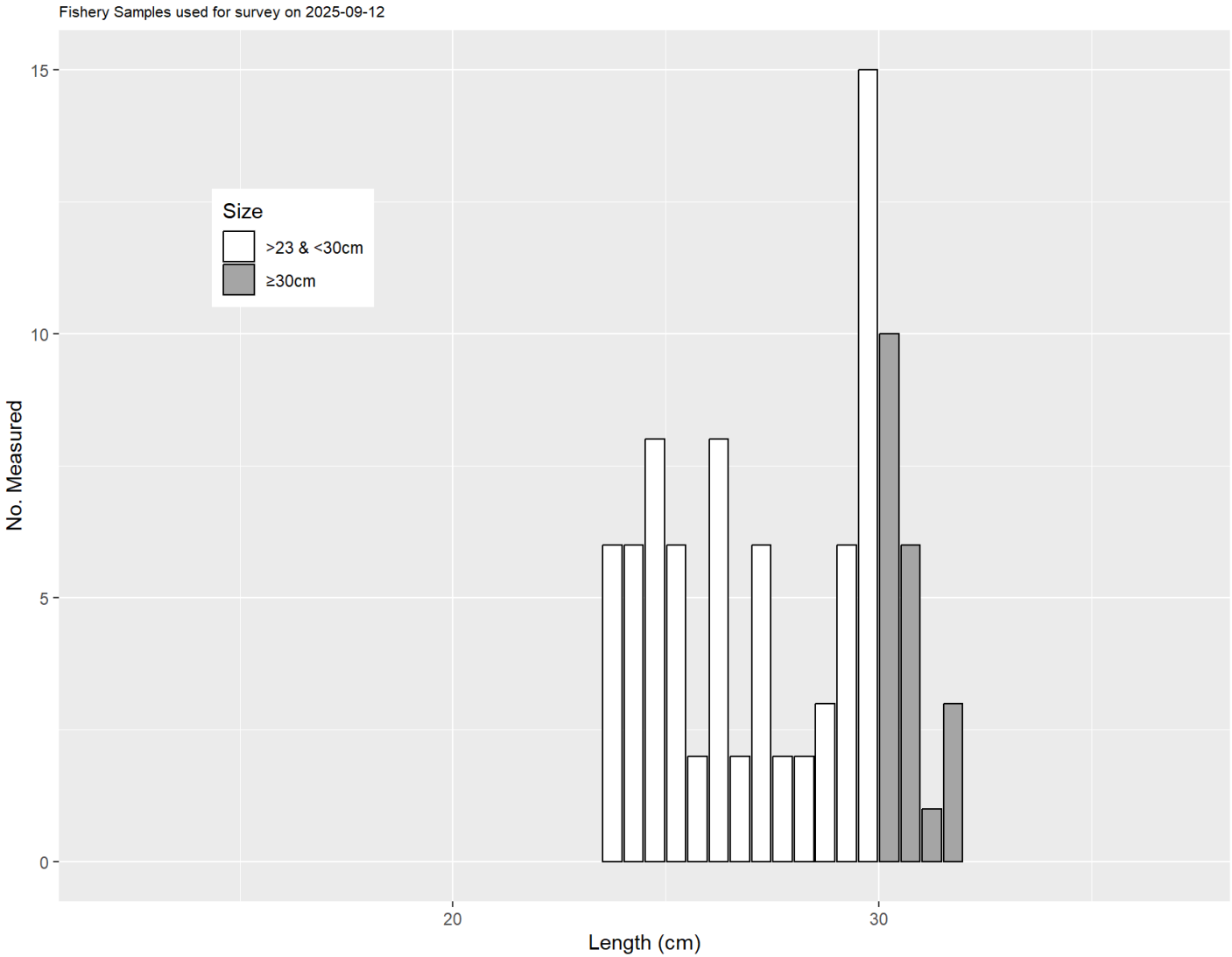
Summary

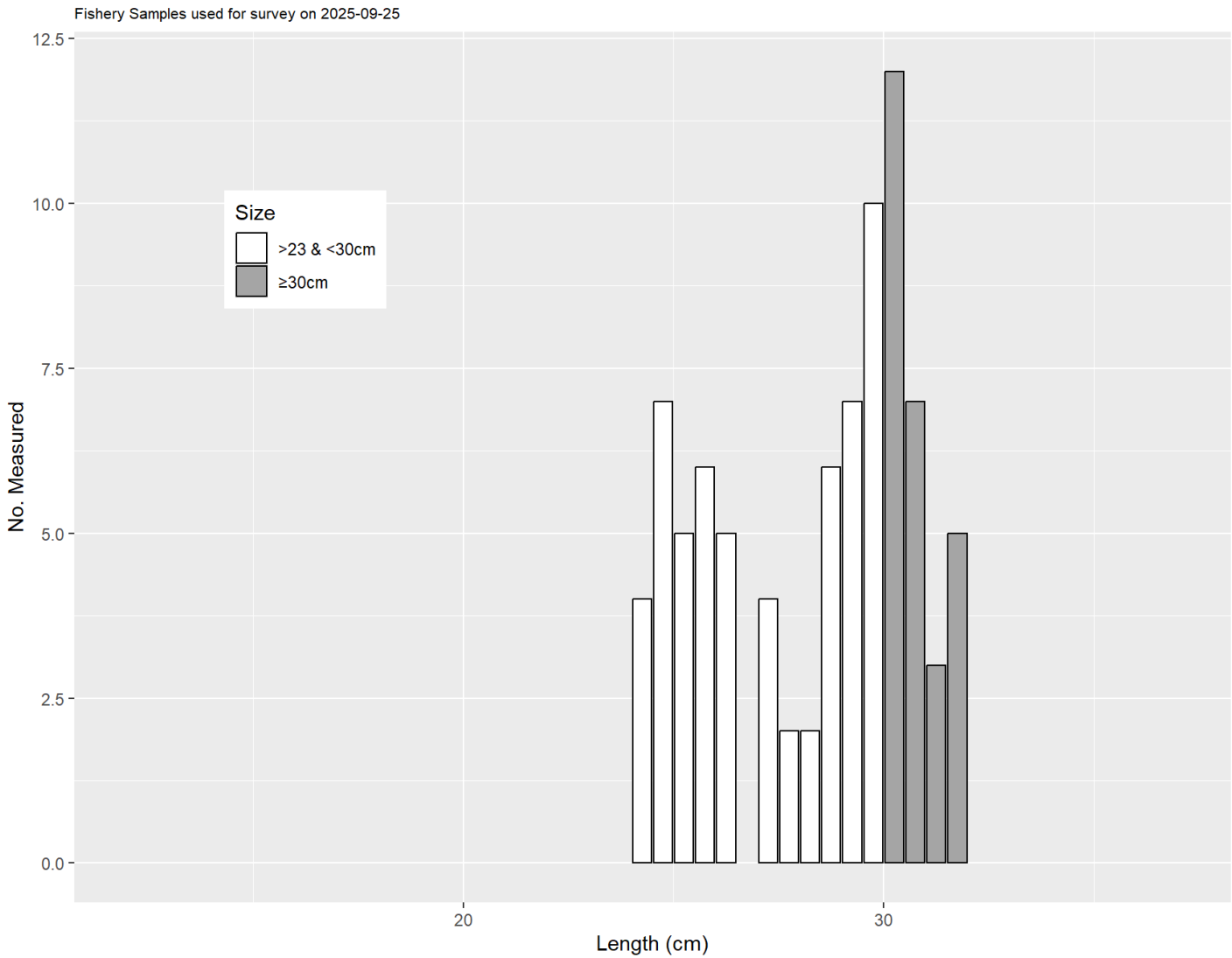
Table. Summary of the 2025 Little Hope spawning ground acoustic survey data and associated biomass estimates. A maximum biomass estimate value is taken when that are less than 10 days, instead, a single value is used in the reported biomass estimates for 10 day intervals.

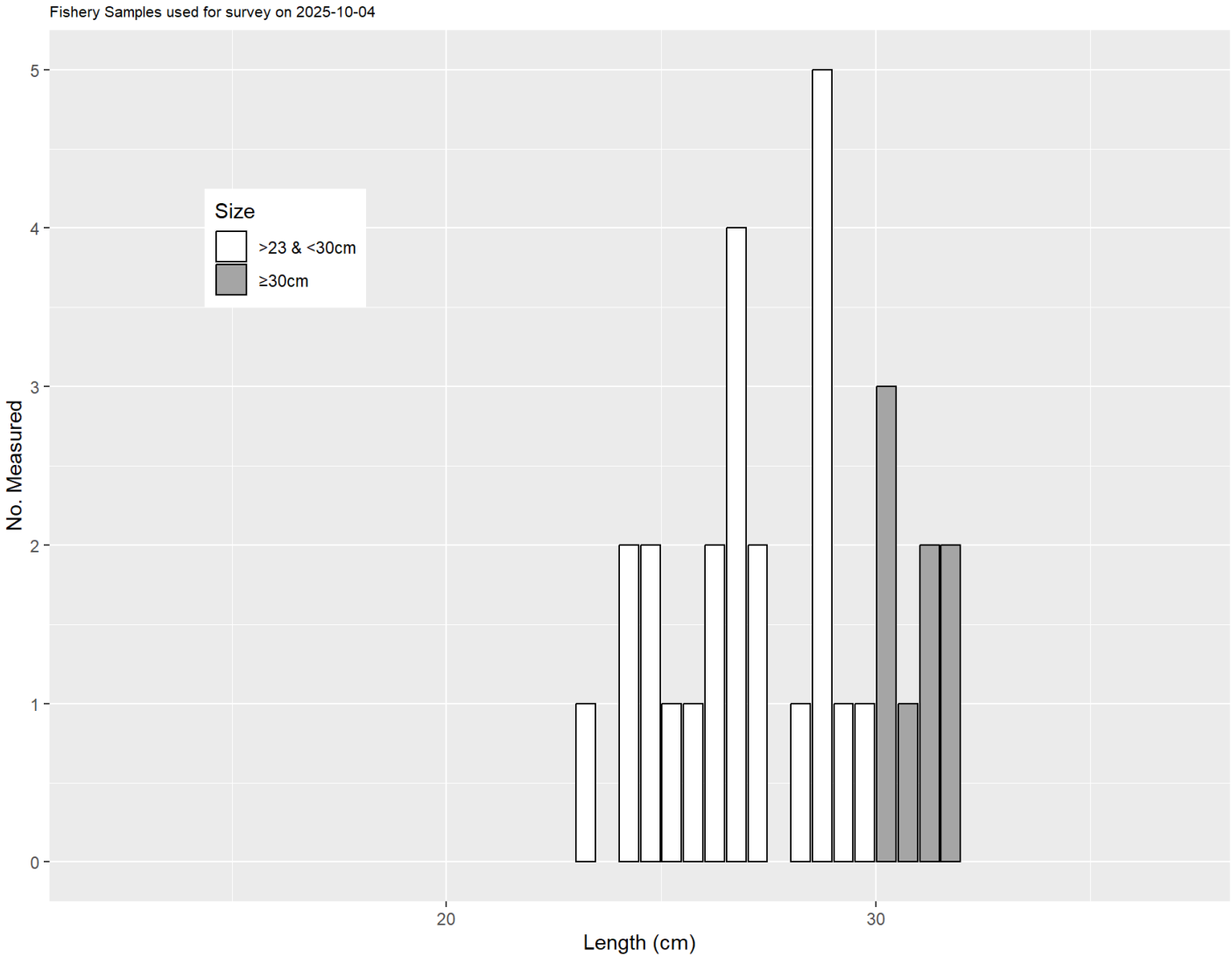
Location	Date	Interval (days)	Target Strength (dB/kg)	Area (km ²)	Mean Sa (dB/m ²)	Biomass (t)	Standard Error (t)	St. Err %
Little Hope #1	2025-08-20		-35.9495	26	-34.15	9,636	246	4.00
Little Hope #2	2025-09-01	12	-35.9495	8	-44.73	1,026	171	17.00
Little Hope #3	2025-09-11	10	-35.7537	30	-36.65	1,309	32	17.00
Little Hope #4	2025-09-21	10	-35.8002	48	-38.94	3,025	142	13.00
Little Hope #5	2025-10-03	12	-35.6737	26	-28.46	6,301	112	35.00
Little Hope #6	2025-10-14	11	-35.5868	17	-26.92	7,402	195	22.00
Little Hope #7	2025-10-24	10	-35.4557	3	-29.81	4,883	6	8.00
Little Hope #8	2025-11-04	11	-35.9495	10	-41.02	887	20	5.00
Little Hope #9	2025-11-13	9	-35.9495	3	-33.02	2,650	150	16.00
Summary				19	-34.86	37,119	1,304	13.04

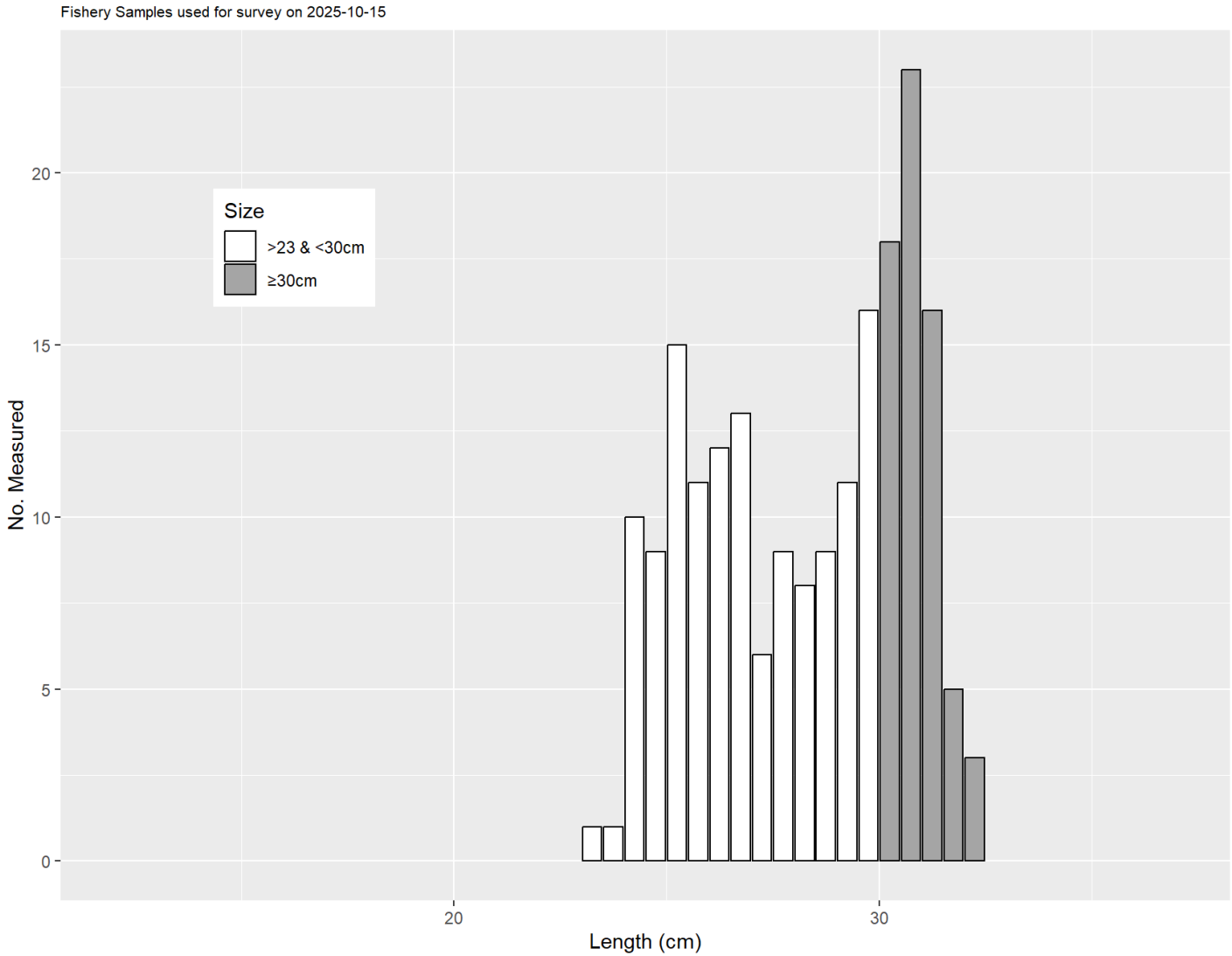
Length Frequency

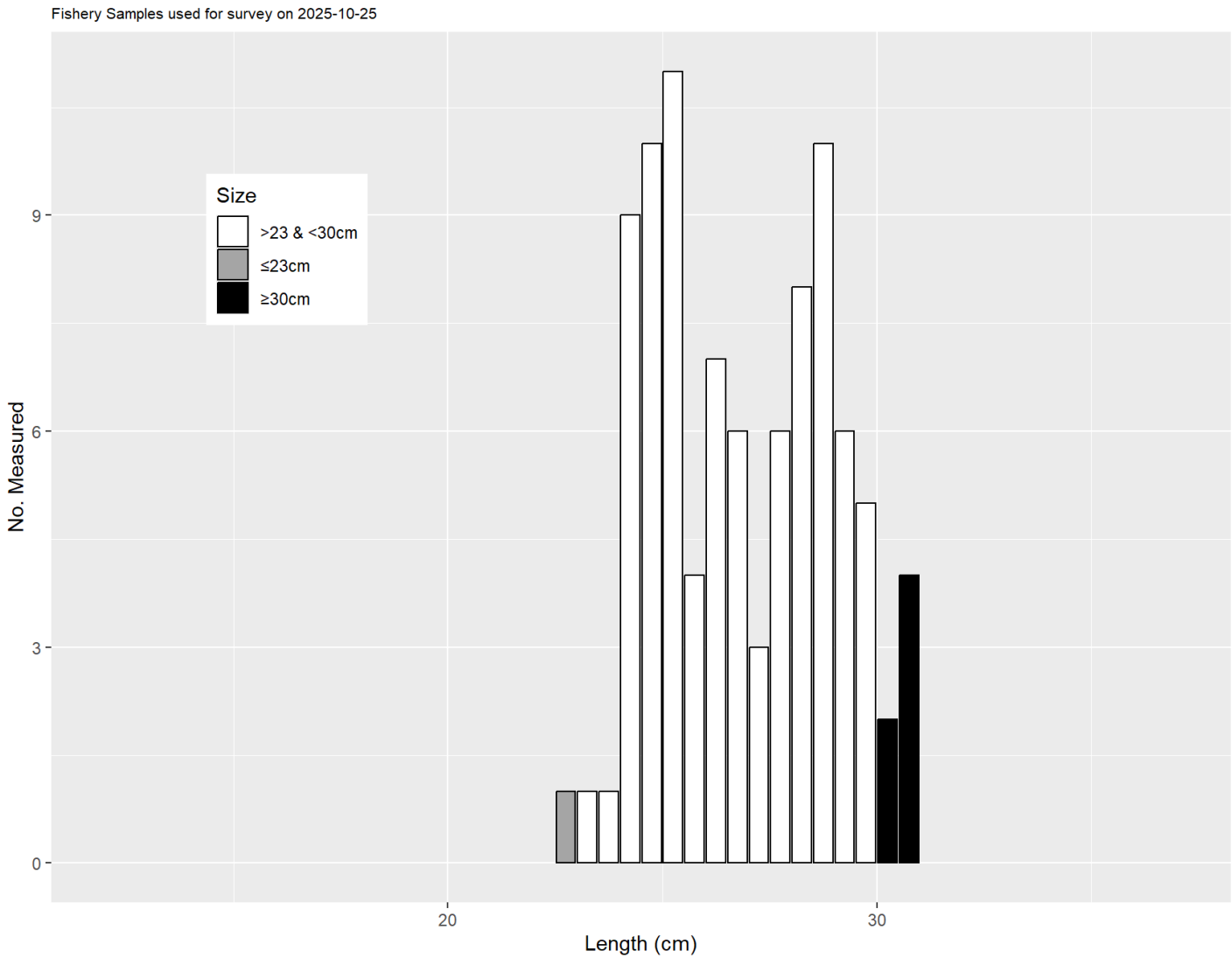
Figure. Length distribution used for calculation of TS for the Little Hope acoustic surveys with proportions <23cm and >30cm shown as white and grey bars.





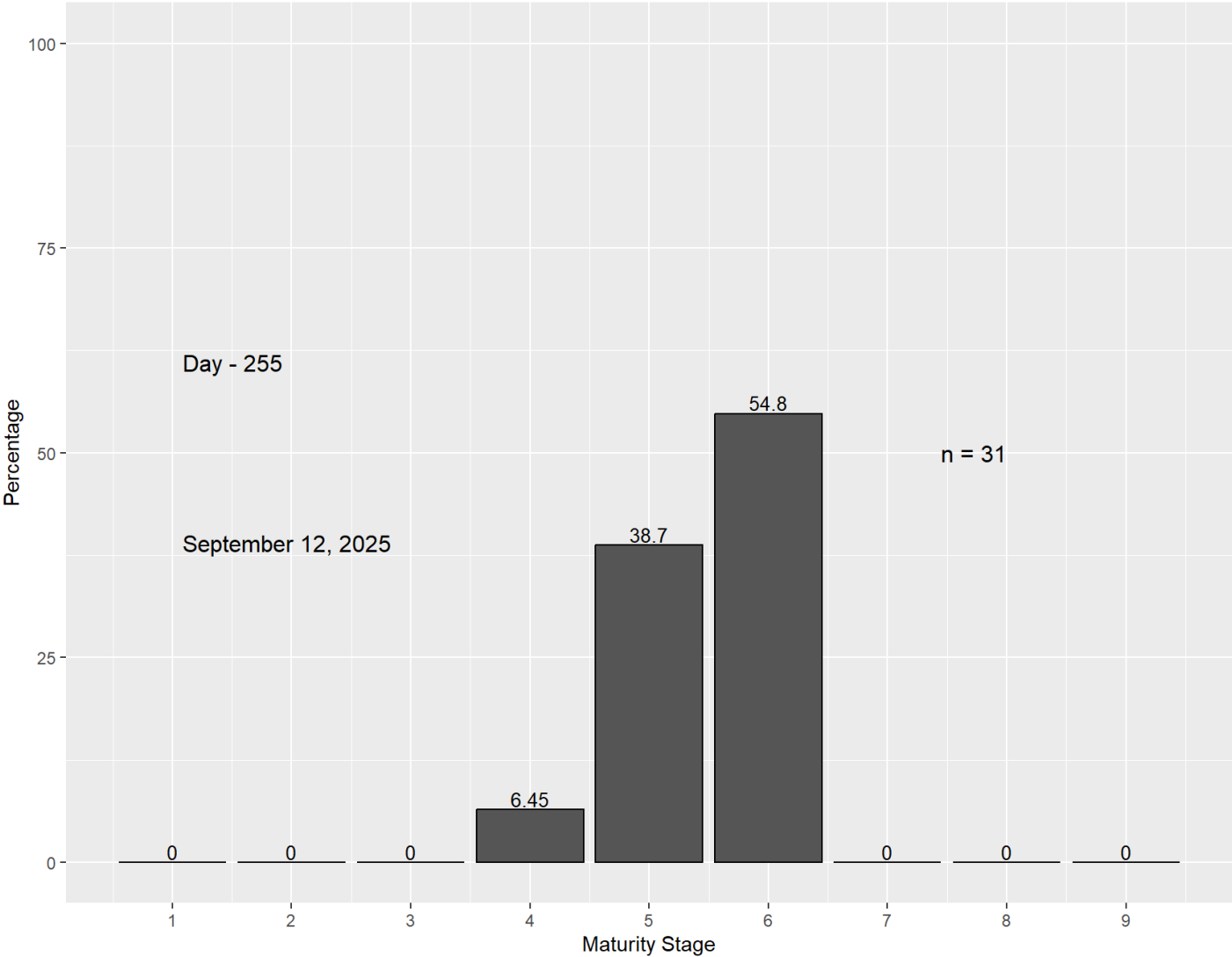


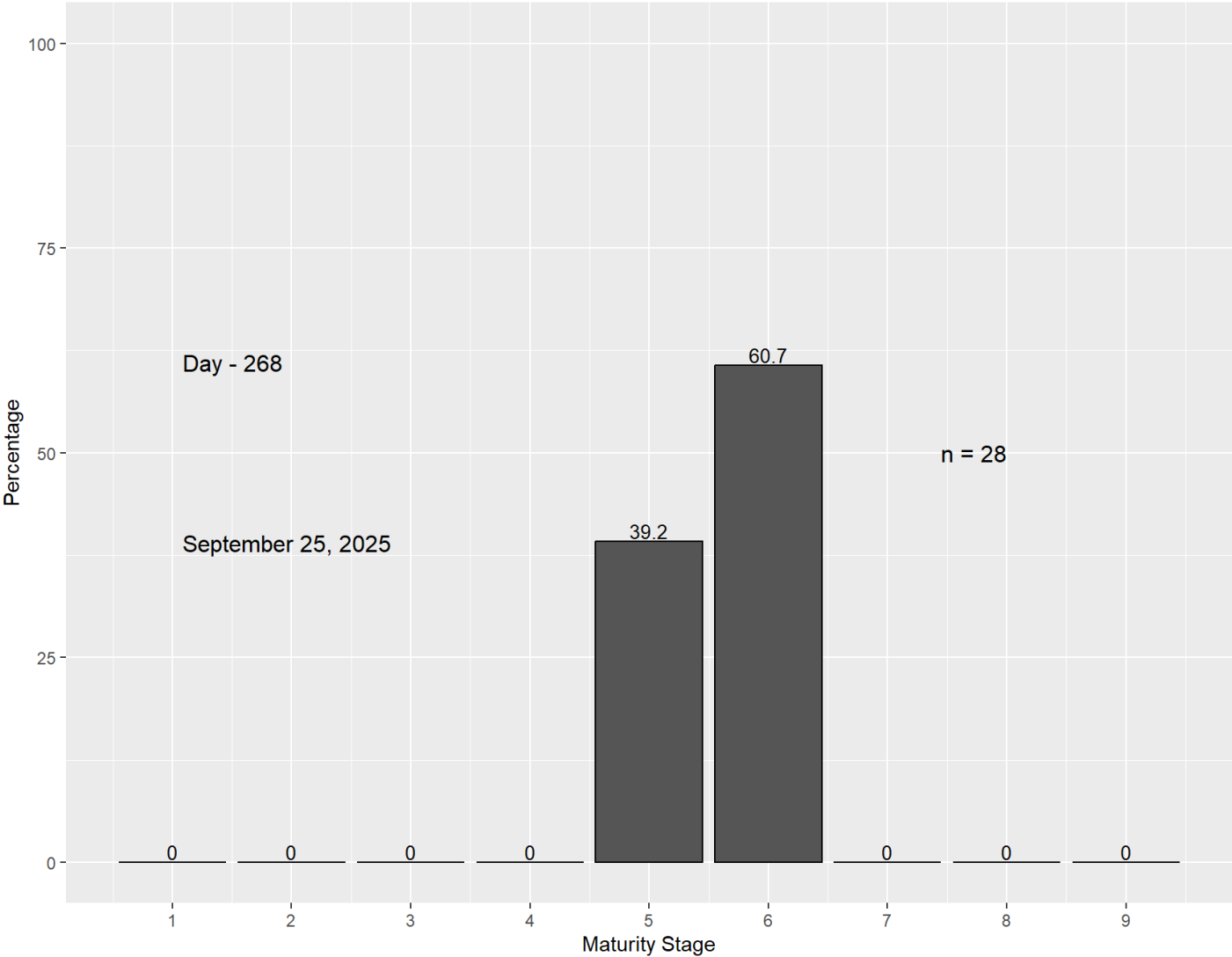


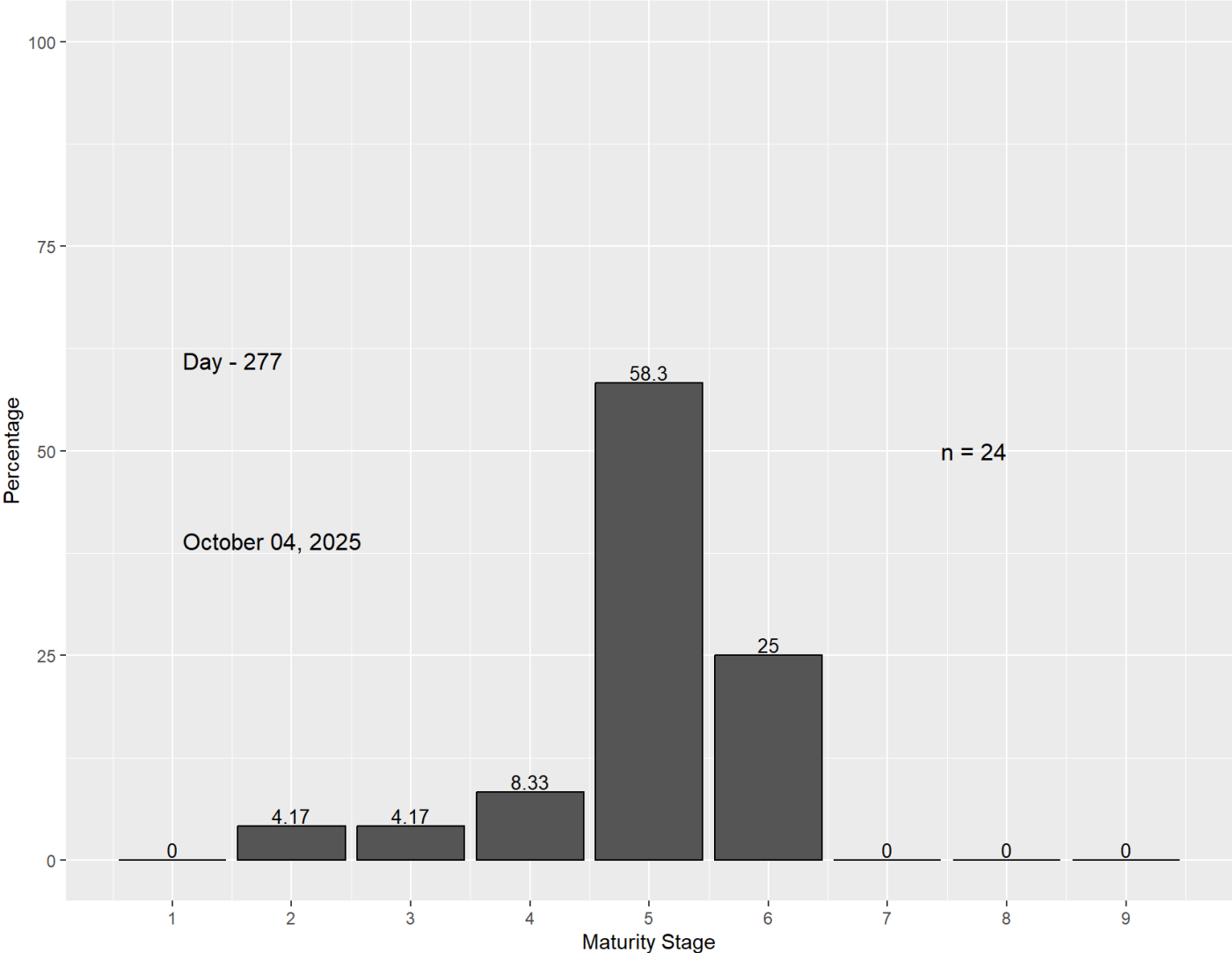


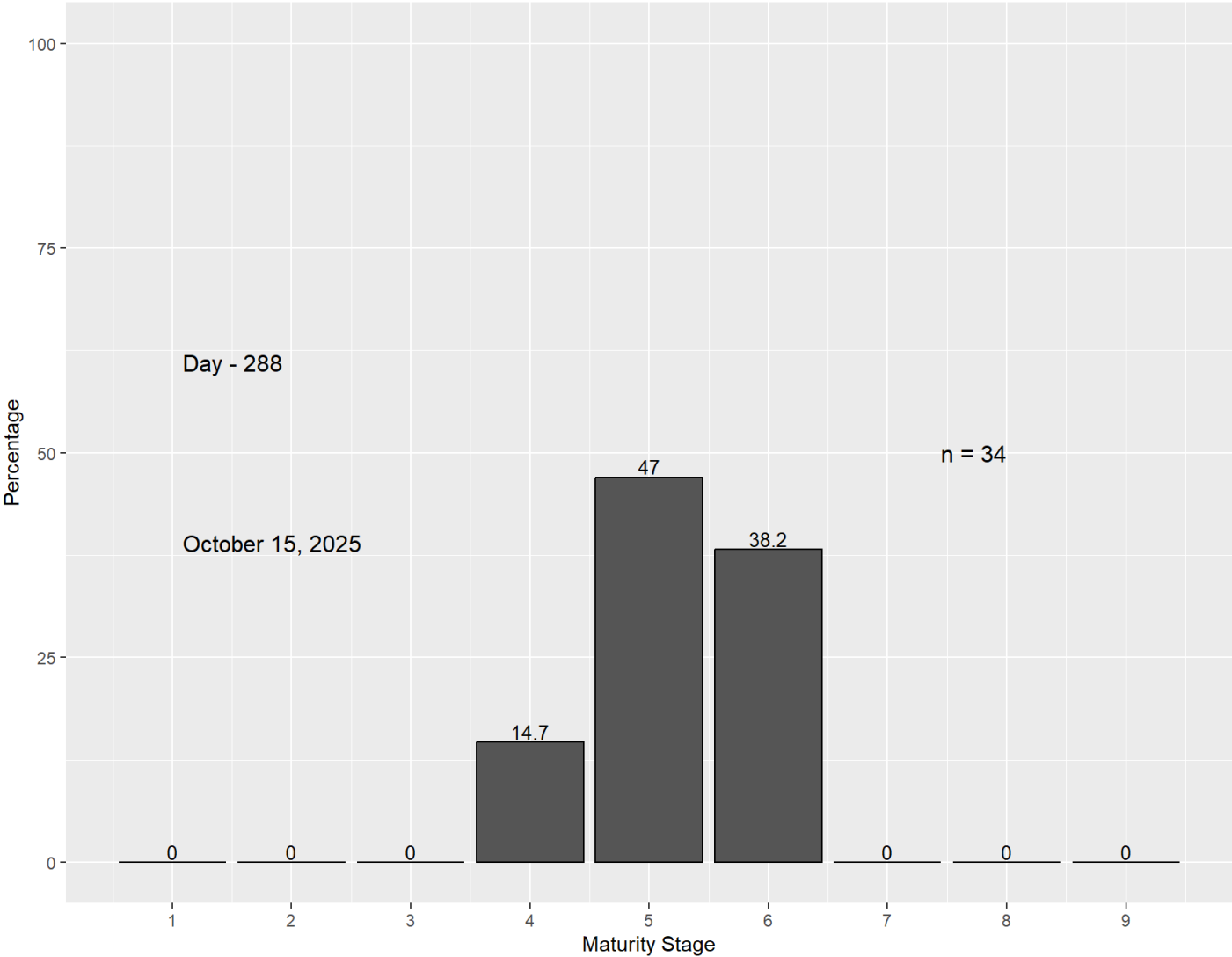
Maturity Samples

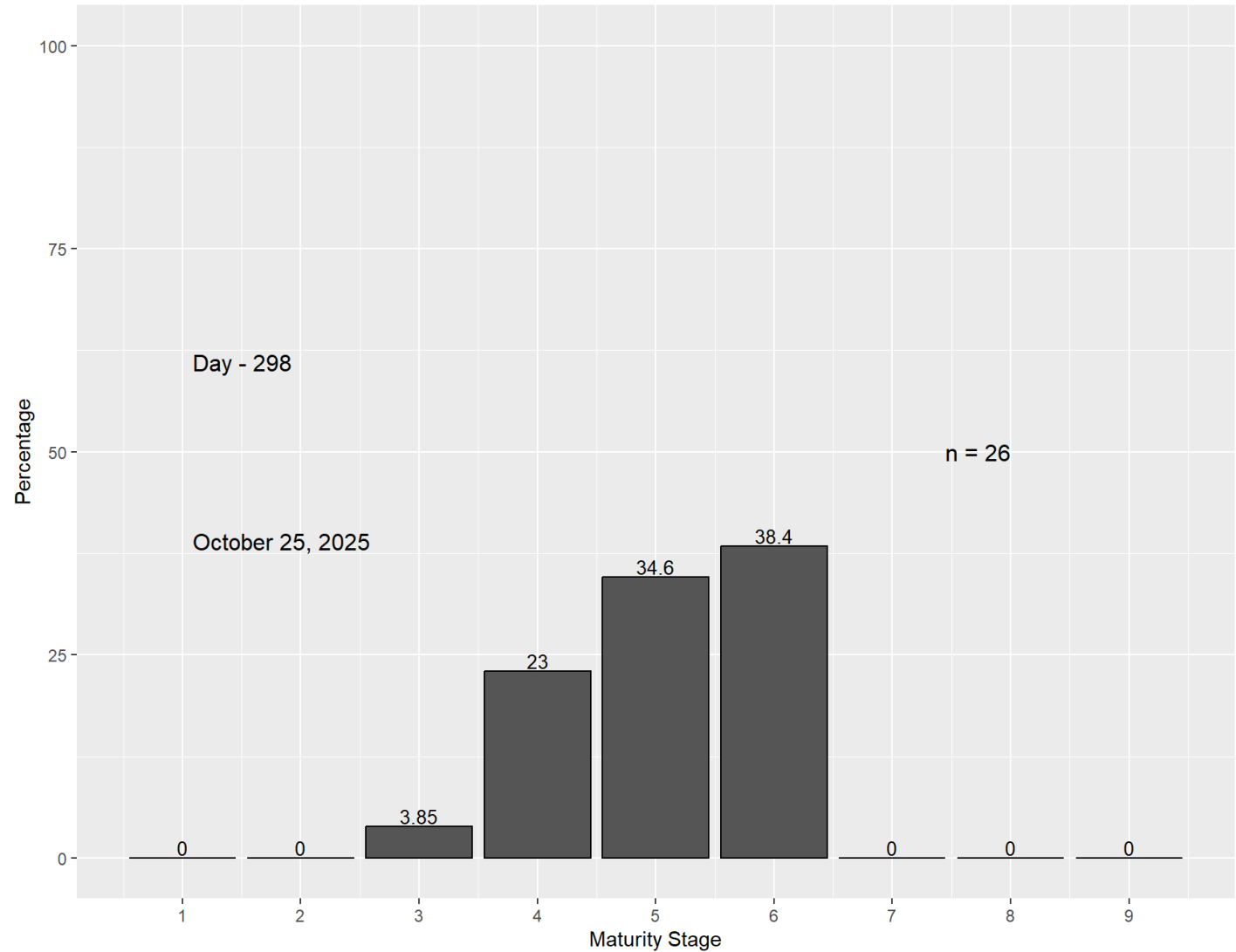
Figure. Herring maturity samples collected during Little Hope surveys in 2025 to determine proportion of individuals spawning for Little Hope acoustic index of spawning stock biomass. Stage codes are: 1-2 Immature, 3-5 Ripening or Ripe. 6, Spawning, 7 Spent, and 8-9 Recovering.











Target Strength

Table. Summary of 2025 fish sampled for Little Hope by survey date and location with TS estimate from samples and TS estimate for a 28 cm herring using the length/weight equation.

Location of survey	Interval (days)	Date	No. of Len. Samp.	No. of Det. Samp.	No. Len/Wt Fish	No. of Fish Measured	Mean Length (mm)	Mean Weight (g)	Target Strength (dB/kg)	Wt 28 cm Fish (g)	TS 28 cm Fish (dB/kg)
Little Hope #1		Aug - 21							-35.5000		-35.5000
Little Hope #2	11.00000	Sep - 1							-35.5000		-35.5000
Little Hope #3	11.00000	Sep - 12	1	1	31	92	278	169	-35.3043	173	-35.3408
Little Hope #4	13.00000	Sep - 25	1	1	28	85	281	175	-35.3507	173	-35.3297

Location of survey	Interval (days)	Date	No. of Len. Samp.	No. of Det. Samp.	No. Len/Wt Fish	No. of Fish Measured	Mean Length (mm)	Mean Weight (g)	Target Strength (dB/kg)	Wt 28 cm Fish (g)	TS 28 cm Fish (dB/kg)
Little Hope #5	9.00000	Oct - 4	1	1	24	31	277	165	-35.2242	171	-35.2849
Little Hope #6	11.00000	Oct - 15	1	1	34	196	278	163	-35.1373	167	-35.1782
Little Hope #7	10.00000	Oct - 25	1	1	26	94	268	147	-35.0063	168	-35.2079
Little Hope #8	10.04167	Nov - 4							-35.5000		-35.5000
Little Hope #9	10.00000	Nov - 14							-35.5000		-35.5000

Survey Details

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-08-20	E8_T01	-35.9495	-55.6889	1.6737	0.1684	91.4787
LittleHopeLH1	2025-08-20	E8_T02	-35.9495	-54.4942	2.0156	0.1841	120.4444
LittleHopeLH1	2025-08-20	E8_T03	-35.9495	-48.2775	2.2632	0.6863	504.0405
LittleHopeLH1	2025-08-20	E8_T04	-35.9495	-46.4147	1.9103	1.2485	773.9990
LittleHopeLH1	2025-08-20	E8_T05	-35.9495	-47.2903	2.2553	0.8644	632.6777
LittleHopeLH1	2025-08-20	E8_T06	-35.9495	-47.4022	2.2337	0.8506	616.5839
LittleHopeLH1	2025-08-20	E8_T07	-35.9495	-47.2238	2.3275	0.8505	642.4380
LittleHopeLH1	2025-08-20	E8_T08	-35.9495	-47.1121	2.2100	0.9191	659.1780
LittleHopeLH1	2025-08-20	E8_T09	-35.9495	-47.9095	1.9186	0.8811	548.6130
LittleHopeLH1	2025-08-20	E8_T10	-35.9495	-50.7563	1.8732	0.4685	284.8292
LittleHopeLH1	2025-08-20	E8_T11	-35.9495	-51.6926	1.9072	0.3709	229.5917

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-08-20	E8_T12	-35.9495	-53.0502	1.6433	0.3149	167.9526
LittleHopeLH1	2025-08-20	E8_T13	-35.9495	-49.0930	1.8735	0.6871	417.7493
LittleHopeLH1	2025-08-20	E8_T14	-35.9495	-58.1846	0.4412	0.3597	51.4930
LittleHopeLH2	2025-08-21	E8_T15	-35.9495	-43.9903	1.5988	1.2967	491.1458
LittleHopeLH2	2025-08-21	E8_T16	-35.9495	-47.5551	1.6522	0.5522	216.1351
LittleHopeLH2	2025-08-21	E8_T17	-35.9495	-45.2497	1.8134	0.8555	367.5077
LittleHopeLH2	2025-08-21	E8_T18	-35.9495	-49.9325	1.8318	0.2881	125.0210
LittleHopeLH2	2025-08-21	E8_T19	-35.9495	-47.7860	1.9840	0.4360	204.9456
LittleHopeLH2	2025-08-21	E8_T20	-35.9495	-51.2681	1.8175	0.2135	91.9236
LittleHopeLH2	2025-08-21	E8_T21	-35.9495	-47.0883	1.6692	0.6086	240.6603
LittleHopeLH2	2025-08-21	E8_T22	-35.9495	-55.5772	0.8375	0.1718	34.0816
LittleHopeLH3	2025-08-20	SH_T01	-35.9495	-48.2110	2.1510	0.2315	294.6530
LittleHopeLH3	2025-08-20	SH_T02	-35.9495	-49.5457	3.3538	0.1092	216.6934
LittleHopeLH3	2025-08-20	SH_T03	-35.9495	-52.3038	2.8774	0.0674	114.8238
LittleHopeLH4	2025-08-20	BT_T01	-35.9495	-54.9957	2.6561	0.1532	120.3432
LittleHopeLH4	2025-08-20	BT_T02	-35.9495	-53.8684	4.5855	0.1151	156.0107
LittleHopeLH4	2025-08-20	BT_T03	-35.9495	-49.4015	5.7494	0.2567	436.3575
LittleHopeLH4	2025-08-20	BT_T04	-35.9495	-50.8594	5.8931	0.1790	311.9229
LittleHopeLH4	2025-08-20	BT_T05	-35.9495	-52.6749	5.9479	0.1168	205.3529
LittleHopeLH4	2025-08-20	BT_T06	-35.9495	-52.7067	6.1278	0.1125	203.8553

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH4	2025-08-20	BT_T07	-35.9495	-57.7398	1.7179	0.1260	63.9744
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-09-01	SH_T01	-35.9495	-47.8243	1.8532	0.4642	503.4459
LittleHopeLH1	2025-09-01	SH_T02	-35.9495	-52.3267	2.5156	0.1213	178.5341
LittleHopeLH1	2025-09-01	SH_T03	-35.9495	-52.8331	2.7551	0.0985	158.8817
LittleHopeLH1	2025-09-01	SH_T04	-35.9495	-54.5825	3.2475	0.0559	106.2030
LittleHopeLH1	2025-09-01	SH_T05	-35.9495	-55.8755	2.8744	0.0469	78.8565
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-09-11	SH_T01	-35.7537	-58.2049	3.1616	0.0219	61.1735
LittleHopeLH1	2025-09-11	SH_T02	-35.7537	-57.2801	3.8749	0.0221	75.6904
LittleHopeLH1	2025-09-11	SH_T03	-35.7537	-59.1180	3.3830	0.0166	49.5736
LittleHopeLH1	2025-09-11	SH_T04	-35.7537	-75.3498	1.7477	0.0008	1.1805
LittleHopeLH2	2025-09-12	SH_T05	-35.7537	-55.3215	5.4595	0.0285	186.0382
LittleHopeLH2	2025-09-12	SH_T06	-35.7537	-53.4607	5.7193	0.0417	285.5492
LittleHopeLH2	2025-09-12	SH_T07	-35.7537	-70.6090	2.8905	0.0016	5.5062
LittleHopeLH3	2025-09-12	BT_T01	-35.7537	-54.7645	1.4267	0.0696	13.4341
LittleHopeLH3	2025-09-12	BT_T02	-35.7537	-53.2941	1.3919	0.1001	18.8474
LittleHopeLH3	2025-09-12	BT_T03	-35.7537	-46.8739	1.3856	0.4408	82.6541
LittleHopeLH3	2025-09-12	BT_T04	-35.7537	-46.9334	2.1689	0.2778	81.5289

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH3	2025-09-12	BT_T05	-35.7537	-56.3905	1.5321	0.0446	9.2386
LittleHopeLH4	2025-09-12	BT_T06	-35.7537	-59.1073	0.4083	0.0699	4.9489
LittleHopeLH4	2025-09-12	BT_T07	-35.7537	-50.6536	0.5393	0.3708	34.6638
LittleHopeLH4	2025-09-12	BT_T08	-35.7537	-45.8609	0.6564	0.9186	104.5079
LittleHopeLH4	2025-09-12	BT_T09	-35.7537	-56.5233	0.5783	0.0895	8.9725
LittleHopeLH4	2025-09-12	BT_T10	-35.7537	-51.5439	0.7000	0.2327	28.2392
LittleHopeLH4	2025-09-12	BT_T11	-35.7537	-64.4374	0.8380	0.0100	1.4505
LittleHopeLH4	2025-09-12	BT_T12	-35.7537	-53.6024	0.7378	0.1375	17.5793
LittleHopeLH4	2025-09-12	BT_T13	-35.7537	-61.0535	0.9216	0.0198	3.1615
LittleHopeLH4	2025-09-12	BT_T14	-35.7537	-61.5881	0.8002	0.0202	2.7953
LittleHopeLH5	2025-09-12	BT_T15	-35.7537	-55.2092	0.2827	0.1403	6.8710
LittleHopeLH5	2025-09-12	BT_T16	-35.7537	-55.7759	0.3530	0.0986	6.0306
LittleHopeLH5	2025-09-12	BT_T17	-35.7537	-48.3999	0.4143	0.4592	32.9577
LittleHopeLH5	2025-09-12	BT_T18	-35.7537	-50.8615	0.2411	0.4476	18.6980
LittleHopeLH5	2025-09-12	BT_T19	-35.7537	-49.9106	0.3681	0.3650	23.2746
LittleHopeLH5	2025-09-12	BT_T20	-35.7537	-56.4789	0.2105	0.1406	5.1293
LittleHopeLH5	2025-09-12	BT_T21	-35.7537	-49.0172	0.1972	0.8367	28.5906
LittleHopeLH5	2025-09-12	BT_T22	-35.7537	-48.8178	0.2853	0.6056	29.9337
LittleHopeLH5	2025-09-12	BT_T23	-35.7537	-45.4132	0.4977	0.7602	65.5575
LittleHopeLH5	2025-09-12	BT_T24	-35.7537	-51.9070	0.2372	0.3576	14.6977

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH5	2025-09-12	BT_T25	-35.7537	-68.8552	0.4113	0.0042	0.2968
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-09-21	SH_T01	-35.8002	-61.5153	4.6407	0.0165	102.1514
LittleHopeLH1	2025-09-21	SH_T02	-35.8002	-60.4343	5.0763	0.0194	131.0225
LittleHopeLH1	2025-09-21	SH_T03	-35.8002	-58.3825	4.7675	0.0331	210.1514
LittleHopeLH1	2025-09-21	SH_T04	-35.8002	-62.9986	3.7503	0.0145	72.5969
LittleHopeLH1	2025-09-21	SH_T05	-35.8002	-55.0996	3.9899	0.0842	447.5207
LittleHopeLH1	2025-09-21	SH_T06	-35.8002	-59.8412	4.4738	0.0252	150.1975
LittleHopeLH1	2025-09-21	SH_T07	-35.8002	-72.6526	1.9041	0.0031	7.8618
LittleHopeLH2	2025-09-22	BT_T01	-35.8002	-55.3039	2.3000	0.0470	35.1273
LittleHopeLH2	2025-09-22	BT_T02	-35.8002	-52.6643	2.5538	0.0777	64.5059
LittleHopeLH2	2025-09-22	BT_T03	-35.8002	-55.8960	2.5579	0.0368	30.6500
LittleHopeLH2	2025-09-22	BT_T04	-35.8002	-53.8224	2.2222	0.0684	49.4077
LittleHopeLH3	2025-09-22	BT_T05	-35.8002	-59.1847	1.3117	0.0295	11.2327
LittleHopeLH3	2025-09-22	BT_T06	-35.8002	-56.4670	1.4754	0.0490	21.0012
LittleHopeLH3	2025-09-22	BT_T07	-35.8002	-58.2537	1.4552	0.0329	13.9181
LittleHopeLH3	2025-09-22	BT_T08	-35.8002	-54.8214	1.5997	0.0660	30.6766
LittleHopeLH3	2025-09-22	BT_T09	-35.8002	-59.1326	1.3364	0.0293	11.3680
LittleHopeLH3	2025-09-22	BT_T10	-35.8002	-64.0263	1.2466	0.0102	3.6840
LittleHopeLH4	2025-09-21	E8_T01	-35.8002	-51.6240	1.3078	0.3103	118.2695

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH4	2025-09-21	E8_T02	-35.8002	-50.5915	1.1354	0.4533	150.0110
LittleHopeLH4	2025-09-21	E8_T03	-35.8002	-51.8550	1.6372	0.2350	112.1439
LittleHopeLH4	2025-09-21	E8_T04	-35.8002	-51.6448	0.9672	0.4175	117.7047
LittleHopeLH4	2025-09-21	E8_T05	-35.8002	-53.6896	1.1770	0.2143	73.5041
LittleHopeLH4	2025-09-21	E8_T06	-35.8002	-52.7698	1.0826	0.2879	90.8427
LittleHopeLH4	2025-09-21	E8_T07	-35.8002	-53.9560	1.5285	0.1552	69.1314
LittleHopeLH4	2025-09-21	E8_T08	-35.8002	-51.4790	0.8468	0.4954	122.2847
LittleHopeLH4	2025-09-21	E8_T09	-35.8002	-52.6617	0.9283	0.3442	93.1337
LittleHopeLH4	2025-09-21	E8_T10	-35.8002	-52.0759	0.6300	0.5804	106.5824
LittleHopeLH4	2025-09-21	E8_T11	-35.8002	-51.8715	1.0331	0.3710	111.7190
LittleHopeLH4	2025-09-21	E8_T12	-35.8002	-49.8579	0.6737	0.9046	177.6174
LittleHopeLH4	2025-09-21	E8_T13	-35.8002	-50.7002	1.5947	0.3148	146.3021
LittleHopeLH4	2025-09-21	E8_T14	-35.8002	-50.8223	0.9692	0.5035	142.2483
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-10-03	SH_T01	-35.6737	-52.6345	3.5718	0.1010	263.6269
LittleHopeLH1	2025-10-03	SH_T02	-35.6737	-63.7037	3.8641	0.0073	20.6096
LittleHopeLH1	2025-10-03	SH_T03	-35.6737	-65.1819	5.1310	0.0039	14.6640
LittleHopeLH1	2025-10-03	SH_T04	-35.6737	-68.8340	3.6170	0.0024	6.3248
LittleHopeLH1	2025-10-03	SH_T05	-35.6737	-66.3136	1.7296	0.0089	11.3001
LittleHopeLH3	2025-10-04	BT_T08	-35.6737	-48.4380	1.4676	0.6245	264.7327

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH3	2025-10-04	BT_T09	-35.6737	-47.3381	2.7512	0.4291	341.0340
LittleHopeLH3	2025-10-04	BT_T10	-35.6737	-47.6359	2.3269	0.4738	318.4291
LittleHopeLH3	2025-10-04	BT_T11	-35.6737	-47.1446	2.5806	0.4784	356.5728
LittleHopeLH3	2025-10-04	BT_T12	-35.6737	-47.7337	2.3869	0.4516	311.3386
LittleHopeLH3	2025-10-04	BT_T13	-35.6737	-46.5275	2.5373	0.5608	411.0145
LittleHopeLH3	2025-10-04	BT_T14	-35.6737	-56.3150	2.2934	0.0652	43.1620
LittleHopeLH3	2025-10-04	BT_T15	-35.6737	-60.5852	0.9765	0.0572	16.1468
LittleHopeLH4	2025-10-04	BT_T16	-35.6737	-32.1761	0.5420	10.9265	1,207.5604
LittleHopeLH4	2025-10-04	BT_T17	-35.6737	-35.9187	0.6306	3.9671	510.0950
LittleHopeLH4	2025-10-04	BT_T18	-35.6737	-34.5977	0.5756	5.8913	691.4353
LittleHopeLH4	2025-10-04	BT_T19	-35.6737	-58.6678	0.6635	0.0200	2.7086
LittleHopeLH4	2025-10-04	BT_T20	-35.6737	-62.9302	0.2352	0.0212	1.0151
LittleHopeLH5	2025-10-03	E8_T01	-35.6737	-56.1153	1.2201	0.1368	48.6243
LittleHopeLH5	2025-10-03	E8_T02	-35.6737	-56.3041	1.5553	0.1027	46.5550
LittleHopeLH5	2025-10-03	E8_T03	-35.6737	-54.4335	1.9283	0.1275	71.6189
LittleHopeLH5	2025-10-03	E8_T04	-35.6737	-51.2805	1.4394	0.3530	148.0227
LittleHopeLH5	2025-10-03	E8_T05	-35.6737	-52.9480	1.6585	0.2087	100.8281
LittleHopeLH5	2025-10-03	E8_T06	-35.6737	-53.3604	1.4290	0.2203	91.6940
LittleHopeLH5	2025-10-03	E8_T07	-35.6737	-48.4903	2.1447	0.4504	281.4152
LittleHopeLH5	2025-10-03	E8_T08	-35.6737	-51.9592	1.9410	0.2239	126.6079

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH5	2025-10-03	E8_T09	-35.6737	-52.1037	1.7808	0.2361	122.4638
LittleHopeLH5	2025-10-03	E8_T10	-35.6737	-53.6111	1.6450	0.1806	86.5498
LittleHopeLH5	2025-10-03	E8_T11	-35.6737	-51.7214	1.7349	0.2646	133.7346
LittleHopeLH6	2025-10-04	E2_T01	-35.6737	-49.5202	1.4438	0.2756	84.5678
LittleHopeLH6	2025-10-04	E2_T02	-35.6737	-57.7230	1.4030	0.0429	12.7915
LittleHopeLH6	2025-10-04	E2_T03	-35.6737	-55.8135	1.6526	0.0565	19.8549
LittleHopeLH6	2025-10-04	E2_T04	-35.6737	-55.8162	1.5639	0.0597	19.8429
LittleHopeLH6	2025-10-04	E2_T05	-35.6737	-65.1473	1.4980	0.0073	2.3147
LittleHopeLH6	2025-10-04	E2_T06	-35.6737	-48.3300	1.4844	0.3526	111.2298
LittleHopeLH6	2025-10-04	E2_T07	-35.6737	-79.3819	0.6015	0.0007	0.0873
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-10-14	SH_T01	-35.5868	-51.0787	0.4759	0.3156	23.6302
LittleHopeLH1	2025-10-14	SH_T02	-35.5868	-39.0496	0.6301	3.8036	377.0340
LittleHopeLH1	2025-10-14	SH_T03	-35.5868	-38.3240	0.8255	3.4315	445.5946
LittleHopeLH1	2025-10-14	SH_T04	-35.5868	-47.6774	1.0594	0.3103	51.7134
LittleHopeLH1	2025-10-14	SH_T05	-35.5868	-60.0626	1.0828	0.0175	2.9860
LittleHopeLH1	2025-10-14	SH_T06	-35.5868	-64.0620	0.9432	0.0080	1.1889
LittleHopeLH1	2025-10-14	SH_T07	-35.5868	-64.5635	0.3032	0.0222	1.0592
LittleHopeLH2	2025-10-14	SH_T08	-35.5868	-65.3419	2.4139	0.0042	13.4945
LittleHopeLH2	2025-10-14	SH_T09	-35.5868	-59.3593	2.2204	0.0180	53.5081

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH2	2025-10-14	SH_T10	-35.5868	-61.5658	2.0533	0.0117	32.1938
LittleHopeLH2	2025-10-14	SH_T11	-35.5868	-64.2919	2.0090	0.0064	17.1853
LittleHopeLH2	2025-10-14	SH_T12	-35.5868	-70.4838	0.8535	0.0036	4.1302
LittleHopeLH3	2025-10-15	BT_T01	-35.5868	-62.7279	0.6545	0.0201	1.6447
LittleHopeLH3	2025-10-15	BT_T02	-35.5868	-57.4994	0.6135	0.0713	5.4818
LittleHopeLH3	2025-10-15	BT_T03	-35.5868	-54.8851	0.4936	0.1619	10.0082
LittleHopeLH3	2025-10-15	BT_T04	-35.5868	-50.5921	0.6635	0.3236	26.8942
LittleHopeLH3	2025-10-15	BT_T05	-35.5868	-38.7993	0.5573	5.8208	406.3838
LittleHopeLH3	2025-10-15	BT_T06	-35.5868	-40.9360	0.5891	3.3672	248.4620
LittleHopeLH3	2025-10-15	BT_T07	-35.5868	-64.3822	0.5142	0.0174	1.1237
LittleHopeLH3	2025-10-15	BT_T08	-35.5868	-59.6112	0.5927	0.0454	3.3709
LittleHopeLH3	2025-10-15	BT_T09	-35.5868	-64.4617	0.6362	0.0138	1.1033
LittleHopeLH3	2025-10-15	BT_T10	-35.5868	-64.0537	0.6772	0.0143	1.2120
LittleHopeLH3	2025-10-15	BT_T11	-35.5868	-64.1337	0.4930	0.0193	1.1899
LittleHopeLH3	2025-10-15	BT_T12	-35.5868	-67.9173	0.3129	0.0127	0.4979
LittleHopeLH4	2025-10-14	E8_T01	-35.5868	-35.2183	0.7291	7.1812	1,120.9055
LittleHopeLH4	2025-10-14	E8_T02	-35.5868	-35.8155	0.9252	4.9322	976.9091
LittleHopeLH4	2025-10-14	E8_T03	-35.5868	-34.1776	0.7009	9.4925	1,424.4289
LittleHopeLH4	2025-10-14	E8_T04	-35.5868	-36.1057	0.9804	4.3534	913.7534
LittleHopeLH4	2025-10-14	E8_T05	-35.5868	-43.3511	0.6980	1.1531	172.3038

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH4	2025-10-14	E8_T06	-35.5868	-53.5981	0.7764	0.0979	16.2775
LittleHopeLH5	2025-10-15	E8_T07	-35.5868	-59.3329	0.9320	0.0395	4.6562
LittleHopeLH5	2025-10-15	E8_T08	-35.5868	-60.8052	0.8324	0.0315	3.3174
LittleHopeLH5	2025-10-15	E8_T09	-35.5868	-61.5789	0.9509	0.0231	2.7761
LittleHopeLH5	2025-10-15	E8_T10	-35.5868	-56.7590	0.9327	0.0713	8.4222
LittleHopeLH5	2025-10-15	E8_T11	-35.5868	-37.4091	1.3277	4.3143	725.1318
LittleHopeLH5	2025-10-15	E8_T12	-35.5868	-43.1175	1.3584	1.1327	194.7928
LittleHopeLH5	2025-10-15	E8_T13	-35.5868	-47.1047	1.2372	0.4966	77.7777
LittleHopeLH5	2025-10-15	E8_T14	-35.5868	-51.3390	1.1430	0.2027	29.3374
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-10-24	BT_T01	-35.4557	-68.0429	0.9952	0.0045	1.1897
LittleHopeLH1	2025-10-24	BT_T02	-35.4557	-61.0738	1.0780	0.0208	5.9204
LittleHopeLH1	2025-10-24	BT_T03	-35.4557	-58.6424	1.1504	0.0341	10.3631
LittleHopeLH1	2025-10-24	BT_T04	-35.4557	-58.9966	1.1546	0.0313	9.5514
LittleHopeLH1	2025-10-24	BT_T05	-35.4557	-56.3821	1.0558	0.0625	17.4389
LittleHopeLH1	2025-10-24	BT_T06	-35.4557	-57.6254	1.1045	0.0448	13.0975
LittleHopeLH1	2025-10-24	BT_T07	-35.4557	-57.6461	1.0800	0.0456	13.0352
LittleHopeLH1	2025-10-24	BT_T08	-35.4557	-69.4203	0.5448	0.0060	0.8664
LittleHopeLH2	2025-10-24	E8_T01	-35.4557	-37.8536	1.2606	4.2436	762.7667
LittleHopeLH2	2025-10-24	E8_T02	-35.4557	-35.7665	1.4012	6.1734	1,233.3900

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH2	2025-10-24	E8_T03	-35.4557	-38.8442	1.4224	2.9940	607.2059
LittleHopeLH2	2025-10-24	E8_T04	-35.4557	-39.0309	1.5032	2.7138	581.6502
LittleHopeLH2	2025-10-24	E8_T05	-35.4557	-34.5781	2.1719	5.2363	1,621.5848
LittleHopeLH2	2025-10-24	E8_T06	-35.4557	-59.4012	1.5328	0.0244	5.3412
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-11-04	BT_T01	-35.9495	-58.8261	0.8400	0.0745	17.7138
LittleHopeLH1	2025-11-04	BT_T02	-35.9495	-57.3743	0.9128	0.0957	24.7452
LittleHopeLH1	2025-11-04	BT_T03	-35.9495	-56.0151	1.0227	0.1169	33.8385
LittleHopeLH1	2025-11-04	BT_T04	-35.9495	-53.9584	1.0975	0.1748	54.3358
LittleHopeLH1	2025-11-04	BT_T05	-35.9495	-58.2393	1.1317	0.0633	20.2763
LittleHopeLH1	2025-11-04	BT_T06	-35.9495	-52.7192	1.1585	0.2203	72.2778
LittleHopeLH1	2025-11-04	BT_T07	-35.9495	-56.6734	1.1134	0.0922	29.0793
LittleHopeLH1	2025-11-04	BT_T08	-35.9495	-56.9636	1.1178	0.0859	27.1997
LittleHopeLH1	2025-11-04	BT_T09	-35.9495	-54.5409	1.1276	0.1488	47.5151
LittleHopeLH1	2025-11-04	BT_T10	-35.9495	-53.3978	1.0997	0.1985	61.8223
LittleHopeLH1	2025-11-04	BT_T11	-35.9495	-55.4083	1.1050	0.1244	38.9131
LittleHopeLH1	2025-11-04	BT_T12	-35.9495	-68.4697	0.4064	0.0167	1.9229
LittleHopeLH2	2025-11-03	E2_T01	-35.9495	-56.7742	1.1452	0.1258	36.0782
LittleHopeLH2	2025-11-03	E2_T02	-35.9495	-56.9543	1.2269	0.1127	34.6131
LittleHopeLH2	2025-11-03	E2_T03	-35.9495	-57.7410	1.4546	0.0793	28.8779

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH2	2025-11-03	E2_T04	-35.9495	-59.1638	1.4663	0.0567	20.8109
LittleHopeLH2	2025-11-03	E2_T05	-35.9495	-61.2662	1.6563	0.0309	12.8248
LittleHopeLH2	2025-11-03	E2_T06	-35.9495	-65.2832	1.6628	0.0122	5.0857
LittleHopeLH2	2025-11-03	E2_T07	-35.9495	-69.8622	1.6870	0.0042	1.7720
LittleHopeLH2	2025-11-03	E2_T08	-35.9495	-57.1731	1.7261	0.0762	32.9125
LittleHopeLH2	2025-11-03	E2_T09	-35.9495	-60.7090	1.9842	0.0294	14.5803
LittleHopeLH2	2025-11-03	E2_T10	-35.9495	-63.0186	2.0056	0.0171	8.5666
LittleHopeLH2	2025-11-03	E2_T11	-35.9495	-61.9529	1.4115	0.0310	10.9492
LittleHopeLH3	2025-11-04	E2_T12	-35.9495	-50.1750	1.1022	0.2954	68.3615
LittleHopeLH3	2025-11-04	E2_T13	-35.9495	-51.4626	1.2045	0.2010	50.8214
LittleHopeLH3	2025-11-04	E2_T14	-35.9495	-51.5992	1.2751	0.1840	49.2482
LittleHopeLH3	2025-11-04	E2_T15	-35.9495	-49.4767	1.3468	0.2840	80.2857
LittleHopeLH3	2025-11-04	E2_T16	-35.9495	-69.9001	1.4356	0.0024	0.7283
LittleHopeLH3	2025-11-04	E2_T17	-35.9495	-71.0465	1.5707	0.0017	0.5593
LittleHopeLH3	2025-11-04	E2_T18	-35.9495	-70.1655	0.6808	0.0048	0.6851
Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-11-13	BT_T01	-35.9495	-49.5534	1.1065	0.2714	55.8331
LittleHopeLH1	2025-11-13	BT_T02	-35.9495	-44.0905	1.2448	0.8488	196.4184
LittleHopeLH1	2025-11-13	BT_T03	-35.9495	-41.2029	1.2143	1.6917	381.8959
LittleHopeLH1	2025-11-13	BT_T04	-35.9495	-42.9640	1.2724	1.0762	254.5848

Location	Date	Transect Number	Target Strength (dB/kg)	Mean Sa (dB/m^2)	Distance (km)	Biomass Density kg/m^2	Biomass (t)
LittleHopeLH1	2025-11-13	BT_T05	-35.9495	-52.0677	1.2496	0.1347	31.2942
LittleHopeLH1	2025-11-13	BT_T06	-35.9495	-68.5024	0.7987	0.0048	0.7112
LittleHopeLH2	2025-11-14	BT_T07	-35.9495	-45.7447	1.4971	0.4479	145.8032
LittleHopeLH2	2025-11-14	BT_T08	-35.9495	-46.9218	1.5589	0.3280	111.1878
LittleHopeLH2	2025-11-14	BT_T09	-35.9495	-35.7925	1.6267	4.0771	1,442.0476
LittleHopeLH2	2025-11-14	BT_T10	-35.9495	-52.5573	1.7141	0.0815	30.3742