

Table S1. The number of zooplankton samples used per year at regular stations at the surface and upper water column (oblique samples) and in the path of skim feeding right whales.

Year	Surface	Oblique	In-path	Total
1999	39	0	0	39
2000	111	0	0	111
2001	98	0	3	101
2002	120	0	1	121
2003	145	51	2	198
2004	119	121	3	243
2005	138	141	0	279
2006	124	134	0	258
2007	107	111	0	218
2008	97	97	10	204
2009	107	107	4	218
2010	107	107	6	220
2011	64	64	21	149
2012	76	76	8	160
2013	59	60	5	124
2014	44	60	10	114
2015	78	75	15	168
2016	62	62	14	138
2017	60	61	13	134
2018	44	55	10	109
2019	58	73	3	134
2020	52	50	9	111
2021	54	66	5	125
2022	65	69	11	145
Total	2028	1640	153	3821

Table S2. Proportions of the taxonomic categories based on the upper water column bay-wide zooplankton resource versus in-path samples of skim feeding right whales in Cape Cod Bay during the 2003–2022 time series.

Regime	Sample method	<i>C. finmarchicus</i>	<i>Pseudocalanus complex</i>	<i>Centropages spp.</i>	other copepods	balanoids	other zooplankton
<i>Centropages spp.</i> regime	Bay-wide	1.0%	38.4%	43.2%	10.3%	4.7%	2.4%
	In-path	0.3%	74.0%	23.5%	1.7%	0.1%	0.4%
<i>Pseudocalanus complex</i> regime	Bay-wide	13.2%	46.5%	11.7%	11.7%	12.5%	4.4%
	In-path	25.7%	62.3%	6.7%	2.3%	2.4%	0.6%
<i>C. finmarchicus</i> regime	Bay-wide	41.5%	19.0%	3.7%	12.0%	10.0%	13.8%
	In-path	80.0%	9.4%	2.3%	3.8%	2.9%	1.6%