

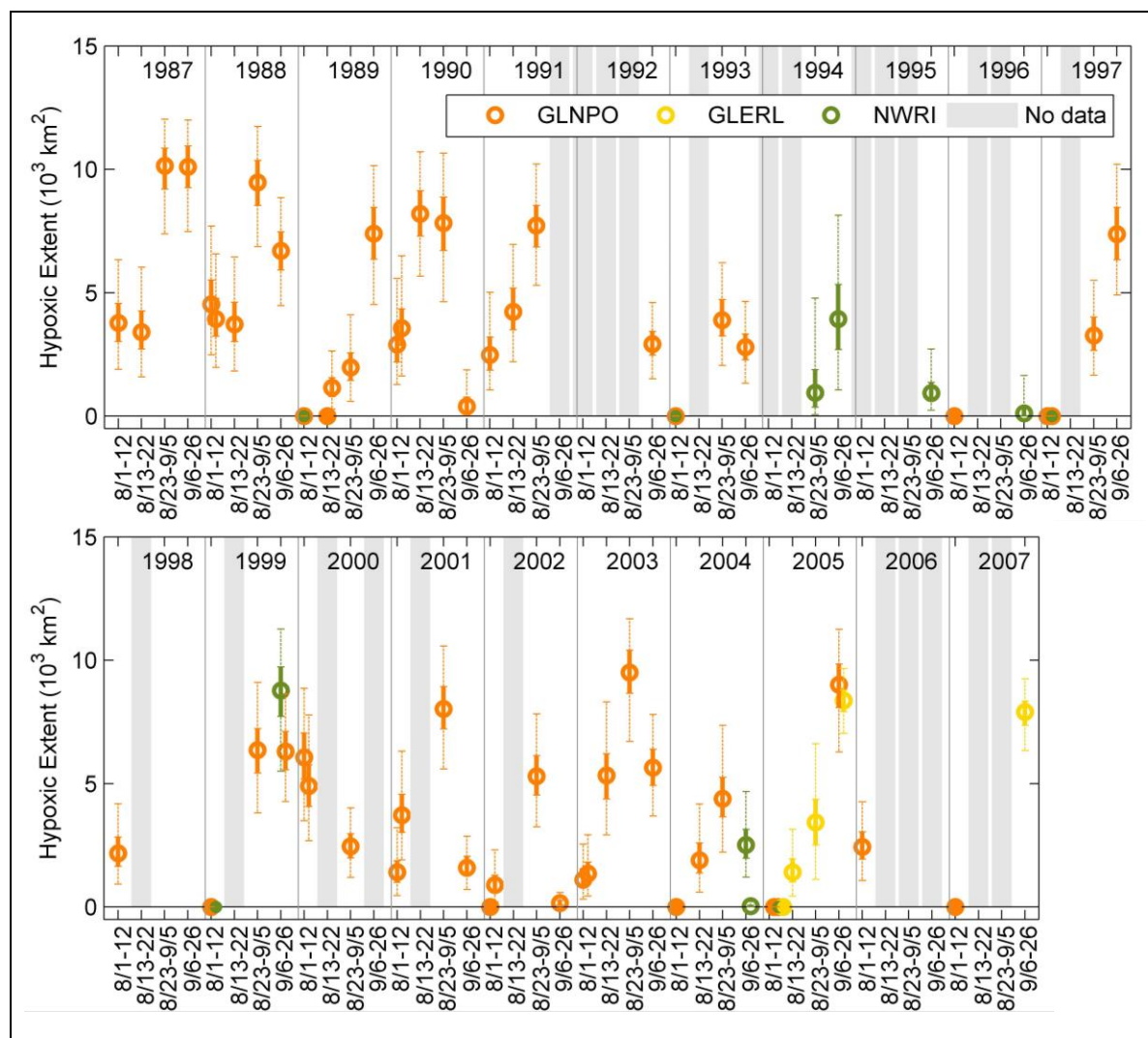


Figure S2 Plot of the median (circle), interquartile range (solid line), and 95% confidence intervals (dashed line) of the estimated hypoxic extent in early August (8/1-12), mid-August (8/13-22), late August and early September (8/23-9/5), and mid-September (9/6-26) from all available cruises with observed hypoxia from GLNPO, NWRI and GLERL for 1987-2007. The hypoxic extents of zero shown in solid circle represent cruises for which no hypoxia was observed, and periods shaded in grey represent times during which no data were available.

Source	Year	Month	Date	Hypoxic extent (10^3 km^2)				
				2.5%	25%	50%	75%	97.5%
GLNPO	1987	Aug	5-7,11	1.90	3.02	3.77	4.56	6.34
GLNPO	1987	Aug	16-17	1.59	2.71	3.41	4.26	6.02
GLNPO	1987	Sep	3-5	7.38	9.19	10.13	10.85	12.02
GLNPO	1987	Sep	15-17	7.47	9.25	10.09	10.94	11.99
GLNPO	1988	Aug	2-4	2.48	3.72	4.53	5.51	7.70
GLNPO	1988	Aug	11	1.97	3.23	3.93	4.77	6.57
GLNPO	1988	Aug	18-19	1.83	3.02	3.72	4.61	6.45
GLNPO	1988	Aug	23,30-31	6.86	8.53	9.46	10.35	11.73
GLNPO	1988	Sep	14-17	4.47	5.91	6.69	7.46	8.84
GLNPO	1989	Aug	10-12	No observed hypoxia				
GLNPO	1989	Aug	13-14	No observed hypoxia				
GLNPO	1989	Aug	20-22	0.28	0.79	1.15	1.55	2.64
GLNPO	1989	Aug	28-30	0.59	1.45	1.98	2.56	4.10
GLNPO	1989	Sep	11-13	4.52	6.35	7.39	8.45	10.14
GLNPO	1990	Aug	7-9	1.27	2.19	2.89	3.66	5.58
GLNPO	1990	Aug	8-9	1.63	2.86	3.56	4.34	6.48
GLNPO	1990	Aug	16-17	5.66	7.29	8.19	9.13	10.70
GLNPO	1990	Aug	27-30	4.63	6.70	7.81	8.86	10.65
GLNPO	1990	Sep	18,20	0.04	0.17	0.40	0.77	1.87
GLNPO	1991	Aug	8-9	1.05	1.86	2.48	3.20	5.02
GLNPO	1991	Aug	15-16	2.20	3.49	4.23	5.18	6.95
GLNPO	1991	Aug	26-27	5.29	6.85	7.71	8.52	10.20
GLNPO	1992	Sep	17,19	1.51	2.47	2.91	3.43	4.59
GLNPO	1993	Aug	6-7	No observed hypoxia				
GLNPO	1993	Aug	24-26	2.05	3.24	3.88	4.72	6.20
GLNPO	1993	Sep	15-16	1.33	2.28	2.79	3.33	4.64
NWRI	1994	Sep	1	0.06	0.37	0.95	1.88	4.78
NWRI	1994	Sep	15-17	1.05	2.69	3.94	5.33	8.13
NWRI	1995	Sep	12-15	0.24	0.62	0.94	1.36	2.72
GLNPO	1996	Aug	4	No observed hypoxia				
NWRI	1996	Sep	18,20	0.00	0.02	0.11	0.36	1.65
GLNPO	1997	Aug	3	No observed hypoxia				
GLNPO	1997	Aug	3	No observed hypoxia				
GLNPO	1997	Aug	26-27	1.66	2.66	3.27	4.01	5.50
GLNPO	1997	Sep	17-18	4.90	6.34	7.37	8.45	10.20
GLNPO	1998	Aug	3-4	0.93	1.65	2.18	2.83	4.18
GLNPO	1998	Aug	3-4	0.49	1.24	1.73	2.38	3.91
GLNPO	1998	Aug	27-29	5.15	7.27	8.12	9.00	10.53
GLNPO	1998	Sep	16	2.97	4.34	5.15	6.09	7.70
GLNPO	1999	Aug	5	No observed hypoxia				

Source	Year	Month	Date	Hypoxic extent (10^3 km^2)				
				2.5%	25%	50%	75%	97.5%
GLNPO	1999	Aug	5	No observed hypoxia				
GLNPO	1999	Aug	24, 26-27	3.81	5.42	6.35	7.22	9.09
NWRI	1999	Sep	8-9	5.50	7.71	8.77	9.72	11.25
GLNPO	1999	Sep	20-21	4.27	5.56	6.30	7.11	8.63
GLNPO	2000	Aug	3-4	3.49	5.19	6.06	7.04	8.85
GLNPO	2000	Aug	3-4	2.68	4.07	4.90	5.76	7.77
GLNPO	2000	Aug	30	1.20	1.98	2.46	2.96	4.01
GLNPO	2001	Aug	5-6	0.47	0.99	1.41	1.88	3.21
GLNPO	2001	Aug	6	1.91	3.02	3.72	4.56	6.31
GLNPO	2001	Aug	29-30	5.59	7.21	8.02	8.92	10.57
GLNPO	2001	Sep	13-14	0.71	1.26	1.59	2.05	2.86
GLNPO	2002	Aug	6-7	No observed hypoxia				
GLNPO	2002	Aug	6-7	0.20	0.57	0.89	1.29	2.31
GLNPO	2002	Aug	28-29	3.24	4.53	5.30	6.13	7.82
GLNPO	2002	Sep	14-15	0.02	0.09	0.16	0.27	0.59
GLNPO	2003	Aug	8	0.32	0.77	1.10	1.54	2.55
GLNPO	2003	Aug	8-9	0.45	0.94	1.35	1.81	2.92
GLNPO	2003	Aug	19	2.92	4.38	5.33	6.20	8.31
GLNPO	2003	Sep	2-3	6.70	8.65	9.50	10.39	11.67
GLNPO	2003	Sep	15-16	3.69	4.92	5.65	6.38	7.79
GLNPO	2004	Aug	6	No observed hypoxia				
GLNPO	2004	Aug	18-19	0.59	1.38	1.89	2.59	4.16
GLNPO	2004	Aug	26	2.22	3.65	4.38	5.25	7.35
NWRI	2004	Sep	15-16	1.21	1.98	2.51	3.14	4.67
NWRI	2004	Sep	21-22	0.00	0.01	0.03	0.07	0.22
GLNPO	2005	Aug	9-10	No observed hypoxia				
GLNPO	2005	Aug	9-10	No observed hypoxia				
GLERL	2005	Aug	8-12	No observed hypoxia				
GLERL	2005	Aug	15-19	0.45	1.02	1.41	1.95	3.15
GLERL	2005	Aug	27-30	1.12	2.52	3.42	4.36	6.61
GLNPO	2005	Sep	8-9	6.27	8.08	9.00	9.84	11.24
GLERL	2005	Sep	6-21	7.02	7.91	8.36	8.78	9.66
GLNPO	2006	Aug	10-12	1.07	1.94	2.43	3.05	4.26
GLNPO	2007	Aug	8	No observed hypoxia				
GLERL	2007	Sep	4-26	6.33	7.35	7.89	8.34	9.24

Table S1 Median (50th percentile), interquartile range (25th and 75th percentiles), and 95% confidence intervals (2.5th and 97.5th percentiles) of estimated hypoxic extent from all available GLNPO, NWRI and GLERL cruises for 1987-2007. This table presents the same information as that in Figure S2, but in tabular form.

