

Appendix M. Status in benthic community condition based on the B-IBI at the Virginia tributary and mainstem stations for the period of 2000 through 2002.

Station	Score	Status (2000-2002)
CB5.4	2.5	Degraded
CB6.1	3.5	Meets Goals
CB6.4	3.1	Meets Goals
CB7.3E	3.7	Meets Goals
CB8.1	3.6	Meets Goals
TF5.5	3.3	Meets Goals
RET5.2	3.3	Meets Goals
LE5.1	3.2	Meets Goals
LE5.2	2.5	Degraded
LE5.4	3.6	Meets Goals
SBE2	2.3	Degraded
SBE5	2.4	Degraded
TF4.2	3.1	Meets Goals
RET4.3	2.7	Marginal
LE4.1	2.8	Marginal
LE4.3	4.0	Meets Goals
LE4.3B	3.1	Meets Goals
TF3.3	2.7	Marginal
RET3.1	2.7	Marginal
LE3.2	2.0	Degraded
LE3.4	1.8	Severely degraded
EBB1	2.0	Severely degraded
ELC1	4.2	Meets Goals
ELD1	3.2	Meets Goals
ELF1	1.9	Severely degraded
LFA1	2.2	Degraded
LFB1	2.3	Degraded
SBA1	2.7	Marginal
SBB1	2.9	Marginal
SBC1	2.1	Degraded
SBD1	2.4	Degraded
SBD2	2.7	Marginal
SBD4	3.2	Meets Goals
WBB1	2.3	Degraded
WBB5	2.4	Degraded

Appendix N. Long term trends in benthic bioindicators at the Virginia tributary and mainstem stations for the period of 1985 through 2002.

Station	Parameter	Baseline	Slope	% Change	Absolute Change	p value	Direction
TF5.5	Benthic IBI	2.13	0.08	62.09	1.32	0.0041	Improving
TF5.5	Total community abundance	1335.60	345.83	440.18	5879.03	0.0534	Improving
TF5.5	Abundance of pollution sensitive species	0.00	2.86		48.61	0.0001	Improving
TF5.5	Abundance of pollution indicative species	20.14	-0.94	-79.27	-15.96	0.0170	Improving
TF5.5	Total community biomass	0.34	0.05	267.00	0.91	0.0810	Improving
TF5.5	Biomass of pollution sensitive species	0.00	4.51		76.74	0.0002	Improving
TF5.5	Biomass of pollution indicative species	43.89	-2.45	-95.04	-41.71	0.0254	Improving
TF5.5	Shannon Weiner Index	1.18	0.02	31.84	0.38	0.3437	No trend
RET5.2	Benthic IBI	2.00	0.07	56.70	1.13	0.0021	Improving
RET5.2	Total community abundance	610.56	42.93	119.53	729.81	0.1114	No trend
RET5.2	Abundance of pollution sensitive species	10.42	1.32	216.07	22.51	0.0057	Improving
RET5.2	Abundance of pollution indicative species	16.67	0.00	0.00	0.00	0.7276	No trend
RET5.2	Total community biomass	7.34	-0.03	-6.07	-0.45	0.4477	No trend
RET5.2	Biomass of pollution sensitive species	28.04	1.96	118.79	33.31	0.0635	Improving
RET5.2	Biomass of pollution indicative species	8.42	-0.08	-16.50	-1.39	0.3147	No trend
RET5.2	Shannon Weiner Index	1.66	0.06	62.57	1.04	0.0022	Improving
LE5.1	Benthic IBI	3.03	0.00	0.00	0.00	0.6854	No trend
LE5.1	Total community abundance	772.74	22.90	38.52	297.65	0.4398	No trend
LE5.1	Abundance of pollution sensitive species	5.57	-0.60	-138.92	-7.74	0.3601	No trend
LE5.1	Abundance of pollution indicative species	0.00	0.00		0.00	0.0319	No change
LE5.1	Total community biomass	0.94	-0.01	-7.19	-0.07	0.8529	No trend
LE5.1	Biomass of pollution sensitive species	11.81	0.00	0.00	0.00	0.7518	No trend
LE5.1	Biomass of pollution indicative species	0.00	0.00		0.00	0.1267	No trend
LE5.1	Shannon Weiner Index	1.93	0.03	18.66	0.36	0.0985	Improving
LE5.2	Benthic IBI	3.33	-0.03	-14.19	-0.47	0.5699	No trend
LE5.2	Total community abundance	1221.12	60.42	84.11	1027.14	0.0405	Improving
LE5.2	Abundance of pollution sensitive species	34.48	2.19	108.13	37.28	0.0209	Improving
LE5.2	Abundance of pollution indicative species	17.25	0.24	24.04	4.15	0.6224	No trend
LE5.2	Biomass of pollution sensitive species	40.78	0.76	31.84	12.98	0.7332	No trend
LE5.2	Biomass of pollution indicative species	8.76	0.67	130.47	11.43	0.1204	No trend
LE5.2	Shannon Weiner Index	2.55	-0.01	-5.33	-0.14	0.7909	No trend
LE5.4	Benthic IBI	3.72	0.00	0.00	0.00	0.8478	No trend
LE5.4	Total community abundance	2528.10	6.36	4.28	108.12	0.7332	No trend
LE5.4	Abundance of pollution sensitive species	50.52	-0.71	-23.85	-12.05	0.1396	No trend
LE5.4	Abundance of pollution indicative species	1.99	-0.12	-106.53	-2.12	0.0164	Improving
LE5.4	Biomass of pollution sensitive species	60.10	-1.75	-49.53	-29.77	0.0447	Degrading
LE5.4	Biomass of pollution indicative species	0.51	0.00	-13.00	-0.07	0.2460	No trend
LE5.4	Shannon Weiner Index	3.69	-0.01	-5.94	-0.22	0.3837	No trend

Appendix N. Continued.

Station	Parameter	Baseline	Slope	% Change	Absolute	p value	Direction
SBE2	Benthic IBI	2.00	0.03	19.37	0.39	0.3303	No trend
SBE2	Total community abundance	1631.34	143.10	114.04	1860.30	0.0021	Improving
SBE2	Abundance of pollution sensitive species	4.86	3.33	891.62	43.33	0.0000	Improving
SBE2	Abundance of pollution indicative species	71.15	-2.34	-42.67	-30.36	0.0212	Improving
SBE2	Total community biomass	0.89	0.05	66.90	0.60	0.0309	Improving
SBE2	Biomass of pollution sensitive species	6.80	2.47	471.65	32.07	0.0006	Improving
SBE2	Biomass of pollution indicative species	41.37	-1.19	-37.49	-15.51	0.1600	No trend
SBE2	Shannon Weiner Index	1.78	0.03	21.25	0.38	0.2318	No trend
SBE5	Benthic IBI	1.31	0.10	101.22	1.33	0.0000	Improving
SBE5	Total community abundance	3148.20	114.48	47.27	1488.24	0.1511	No trend
SBE5	Abundance of pollution sensitive species	0.00	2.32		30.21	0.0000	Improving
SBE5	Abundance of pollution indicative species	91.62	-5.18	-73.48	-67.32	0.0000	Improving
SBE5	Total community biomass	0.60	0.05	106.38	0.64	0.0072	Improving
SBE5	Biomass of pollution sensitive species	0.00	2.00		26.00	0.0006	Improving
SBE5	Biomass of pollution indicative species	81.62	-4.17	-66.36	-54.17	0.0001	Improving
SBE5	Shannon Weiner Index	1.14	0.07	78.11	0.89	0.0094	Improving
TF4.2	Benthic IBI	3.00	0.02	13.83	0.41	0.6553	No trend
TF4.2	Total community abundance	410.22	106.62	441.86	1812.60	0.0153	Improving
TF4.2	Abundance of pollution sensitive species	12.50	0.96	130.08	16.26	0.1653	No trend
TF4.2	Abundance of pollution indicative species	4.17	0.28	113.25	4.72	0.1962	No trend
TF4.2	Total community biomass	0.15	0.02	202.87	0.30	0.2338	No trend
TF4.2	Biomass of pollution sensitive species	19.44	0.00	0.00	0.00	1.0000	No trend
TF4.2	Biomass of pollution indicative species	11.11	0.51	78.47	8.72	0.1790	No trend
TF4.2	Shannon Weiner Index	0.96	0.05	91.73	0.88	0.0048	Improving
RET4.3	Benthic IBI	3.71	-0.05	-23.64	-0.88	0.1025	No trend
RET4.3	Total community abundance	1030.32	76.32	125.93	1297.44	0.2550	No trend
RET4.3	Abundance of pollution sensitive species	40.89	-0.79	-32.99	-13.49	0.5200	No trend
RET4.3	Abundance of pollution indicative species	12.91	0.03	4.31	0.56	0.8820	No trend
RET4.3	Total community biomass	4.43	-0.28	-107.72	-4.77	0.2545	No trend
RET4.3	Biomass of pollution sensitive species	83.08	-0.25	-5.07	-4.21	0.9605	No trend
RET4.3	Biomass of pollution indicative species	3.23	0.33	174.89	5.65	0.4002	No trend
RET4.3	Shannon Weiner Index	2.74	-0.03	-21.53	-0.59	0.2550	No trend
LE4.1	Benthic IBI	3.10	-0.04	-22.87	-0.71	0.1799	No trend
LE4.1	Total community abundance	1535.94	2.39	2.64	40.55	0.9605	No trend
LE4.1	Abundance of pollution sensitive species	37.56	0.16	7.34	2.76	0.7290	No trend
LE4.1	Abundance of pollution indicative species	23.71	0.21	15.37	3.64	0.7662	No trend
LE4.1	Biomass of pollution sensitive species	82.49	-2.82	-58.11	-47.93	0.0333	Degrading
LE4.1	Biomass of pollution indicative species	8.28	0.39	80.63	6.68	0.1977	No trend
LE4.1	Shannon Weiner Index	2.54	-0.02	-14.12	-0.36	0.1025	No trend

Appendix N. Continued.

Station	Parameter	Baseline	Slope	% Change	Absolute Change	p value	Direction
LE4.3	Benthic IBI	2.92	0.02	13.45	0.39	0.2135	No trend
LE4.3	Total community abundance	3138.66	38.60	20.91	656.21	0.8571	No trend
LE4.3	Abundance of pollution sensitive species	56.44	-0.12	-3.53	-1.99	0.7871	No trend
LE4.3	Abundance of pollution indicative species	15.73	-0.20	-21.42	-3.37	0.6525	No trend
LE4.3	Biomass of pollution sensitive species	72.97	-0.43	-9.97	-7.28	0.5890	No trend
LE4.3	Biomass of pollution indicative species	4.14	-0.06	-25.75	-1.07	0.5285	No trend
LE4.3	Shannon Weiner Index	2.47	0.04	27.46	0.68	0.1768	No trend
LE4.3B	Benthic IBI	1.33	0.15	132.63	1.76	0.0021	Improving
LE4.3B	Total community abundance	1373.76	45.79	40.00	549.50	0.3737	No trend
LE4.3B	Abundance of pollution sensitive species	20.97	1.82	104.05	21.82	0.0971	Improving
LE4.3B	Abundance of pollution indicative species	66.67	-3.09	-55.54	-37.03	0.0155	Improving
LE4.3B	Total community biomass	0.52	0.06	132.00	0.69	0.4195	No trend
LE4.3B	Biomass of pollution sensitive species	44.44	1.20	32.32	14.36	0.3654	No trend
LE4.3B	Biomass of pollution indicative species	20.00	-0.65	-39.20	-7.84	0.1889	No trend
LE4.3B	Shannon Weiner Index	1.45	0.09	76.47	1.11	0.0138	Improving
TF3.3	Benthic IBI	3.40	-0.02	-8.50	-0.29	0.5879	No trend
TF3.3	Total community abundance	1001.70	3.58	6.07	60.82	1.0000	No trend
TF3.3	Abundance of pollution sensitive species	32.36	-1.21	-63.50	-20.55	0.1768	No trend
TF3.3	Abundance of pollution indicative species	0.00	0.74		12.60	0.0351	Degrading
TF3.3	Total community biomass	93.92	-1.67	-30.29	-28.45	0.4177	No trend
TF3.3	Biomass of pollution sensitive species	80.17	-2.39	-50.71	-40.65	0.0192	Degrading
TF3.3	Biomass of pollution indicative species	0.00	0.25		4.27	0.1694	No trend
TF3.3	Shannon Weiner Index	1.95	0.00	3.31	0.06	0.7187	No trend
RET3.1	Benthic IBI	3.58	-0.09	-45.02	-1.61	0.0146	Degrading
RET3.1	Total community abundance	1001.70	127.44	216.29	2166.56	0.2999	No trend
RET3.1	Abundance of pollution sensitive species	33.99	-1.75	-87.47	-29.73	0.0069	Degrading
RET3.1	Abundance of pollution indicative species	1.88	0.57	513.71	9.66	0.0476	Degrading
RET3.1	Total community biomass	9.02	-0.52	-97.59	-8.80	0.0244	Degrading
RET3.1	Biomass of pollution sensitive species	71.23	-4.58	-109.20	-77.78	0.0244	Degrading
RET3.1	Biomass of pollution indicative species	1.57	0.51	557.32	8.75	0.0192	Degrading
RET3.1	Shannon Weiner Index	2.40	-0.04	-28.40	-0.68	0.1497	No trend
LE3.2	Benthic IBI	2.05	0.02	13.19	0.27	0.6525	No trend
LE3.2	Total community abundance	429.30	38.16	151.11	648.72	0.0068	Improving
LE3.2	Abundance of pollution sensitive species	41.28	-0.41	-16.83	-6.95	0.4674	No trend
LE3.2	Abundance of pollution indicative species	50.26	0.03	0.86	0.43	0.7524	No trend
LE3.2	Biomass of pollution sensitive species	46.51	-0.33	-11.97	-5.57	0.4674	No trend
LE3.2	Biomass of pollution indicative species	36.27	0.83	38.68	14.03	0.5580	No trend
LE3.2	Shannon Weiner Index	1.21	0.02	34.70	0.42	0.3679	No trend

Appendix N. Continued.

Station	Parameter	Baseline	Slope	% Change	Absolute Change	p value	Direction
LE3.4	Benthic IBI	1.00	0.06	66.72	0.67	0.0795	Improving
LE3.4	Total community abundance	57.24	60.42	1266.67	725.04	0.0035	Improving
LE3.4	Abundance of pollution sensitive species	0.00	0.86		10.30	0.1780	No trend
LE3.4	Abundance of pollution indicative species	100.00	-0.84	-10.07	-10.07	0.4991	No trend
LE3.4	Total community biomass	0.06	0.03	572.00	0.34	0.0070	Improving
LE3.4	Biomass of pollution sensitive species	0.00	1.52		18.18	0.1825	No trend
LE3.4	Biomass of pollution indicative species	100.00	-1.45	-17.42	-17.42	0.2519	No trend
LE3.4	Shannon Weiner Index	0.00	0.06		0.76	0.1392	No trend
CB5.4	Benthic IBI	1.81	0.00	-4.32	-0.08	0.8212	No trend
CB5.4	Total community abundance	333.90	35.50	180.74	603.50	0.2794	No trend
CB5.4	Abundance of pollution sensitive species	29.84	-0.38	-21.59	-6.44	0.7187	No trend
CB5.4	Abundance of pollution indicative species	36.32	0.19	8.72	3.17	0.7871	No trend
CB5.4	Total community biomass	0.44	-0.01	-31.68	-0.14	0.7517	No trend
CB5.4	Biomass of pollution sensitive species	29.89	-1.03	-58.46	-17.47	0.3219	No trend
CB5.4	Biomass of pollution indicative species	33.95	-0.73	-36.48	-12.39	0.2418	No trend
CB5.4	Shannon Weiner Index	1.71	0.02	16.20	0.28	0.5285	No trend
CB6.1	Benthic IBI	3.58	0.00	1.52	0.05	0.8567	No trend
CB6.1	Total community abundance	1488.24	120.05	137.13	2040.77	0.0030	Improving
CB6.1	Abundance of pollution sensitive species	34.86	-0.39	-18.98	-6.62	0.6525	No trend
CB6.1	Abundance of pollution indicative species	16.08	0.80	85.08	13.68	0.0586	Degrading
CB6.1	Total community biomass	10.82	-0.08	-12.99	-1.41	0.7187	No trend
CB6.1	Biomass of pollution sensitive species	43.49	-1.99	-77.69	-33.79	0.1497	No trend
CB6.1	Biomass of pollution indicative species	1.70	0.41	411.40	6.99	0.1258	No trend
CB6.1	Shannon Weiner Index	2.64	0.04	22.80	0.60	0.0150	Improving
CB6.4	Benthic IBI	4.47	-0.03	-11.22	-0.50	0.4168	No trend
CB6.4	Total community abundance	1640.88	208.61	216.12	3546.34	0.0476	Improving
CB6.4	Abundance of pollution sensitive species	49.63	-0.43	-14.78	-7.33	0.5285	No trend
CB6.4	Abundance of pollution indicative species	16.91	-0.14	-14.25	-2.41	0.7871	No trend
CB6.4	Total community biomass	5.35	-0.21	-67.14	-3.59	0.1147	No trend
CB6.4	Biomass of pollution sensitive species	83.36	-2.35	-47.99	-40.00	0.0384	Degrading
CB6.4	Biomass of pollution indicative species	1.39	0.20	239.22	3.33	0.4713	No trend
CB6.4	Shannon Weiner Index	2.94	0.04	21.57	0.63	0.0384	Improving
CB7.3E	Benthic IBI	4.22	0.00	0.00	0.00	0.8899	No trend
CB7.3E	Total community abundance	5495.04	-45.83	-14.18	-779.04	0.3439	No trend
CB7.3E	Abundance of pollution sensitive species	50.28	-0.26	-8.63	-4.34	0.4177	No trend
CB7.3E	Abundance of pollution indicative species	13.62	-0.79	-98.72	-13.45	0.0244	Improving
CB7.3E	Total community biomass	12.91	-0.34	-44.57	-5.75	0.1912	No trend
CB7.3E	Biomass of pollution sensitive species	63.36	-0.22	-5.93	-3.76	0.7871	No trend
CB7.3E	Biomass of pollution indicative species	1.30	-0.07	-96.12	-1.25	0.1497	No trend
CB7.3E	Shannon Weiner Index	3.72	0.00	0.69	0.03	0.9283	No trend

Appendix N. Continued.

Station	Parameter	Baseline	Slope	% Change	Absolute Change	p value	Direction
CB8.1	Benthic IBI	4.33	-0.02	-6.71	-0.29	0.3791	No trend
CB8.1	Total community abundance	3129.12	63.60	34.55	1081.20	0.4264	No trend
CB8.1	Abundance of pollution sensitive species	55.49	-0.65	-19.88	-11.03	0.1396	No trend
CB8.1	Abundance of pollution indicative species	18.00	-0.94	-89.16	-16.05	0.0022	Improving
CB8.1	Total community biomass	12.22	0.21	29.87	3.65	0.6769	No trend
CB8.1	Biomass of pollution sensitive species	83.43	-2.22	-45.18	-37.70	0.0138	Degrading
CB8.1	Biomass of pollution indicative species	1.07	-0.07	-116.93	-1.25	0.0534	Improving
CB8.1	Shannon Weiner Index	3.79	0.02	10.68	0.40	0.1034	No trend

Appendix O. Scatterplots of the benthic B-IBI

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TF5.5 (1-J)

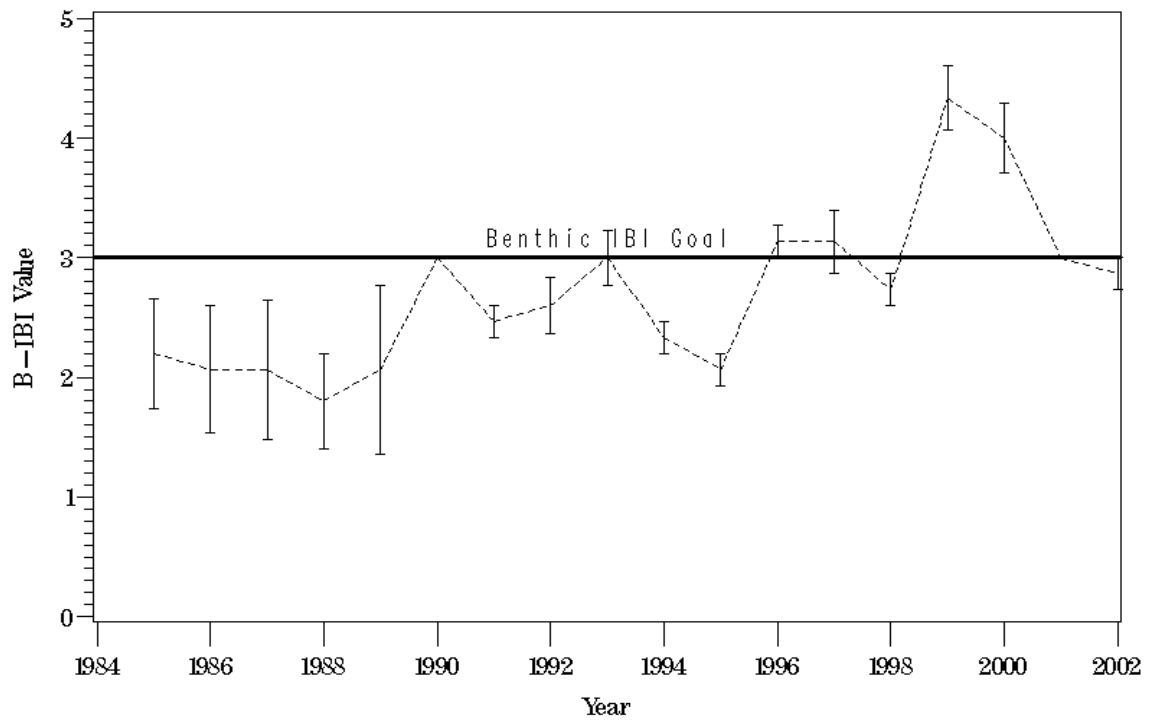


Figure O1. Plot of the benthic IBI against time at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

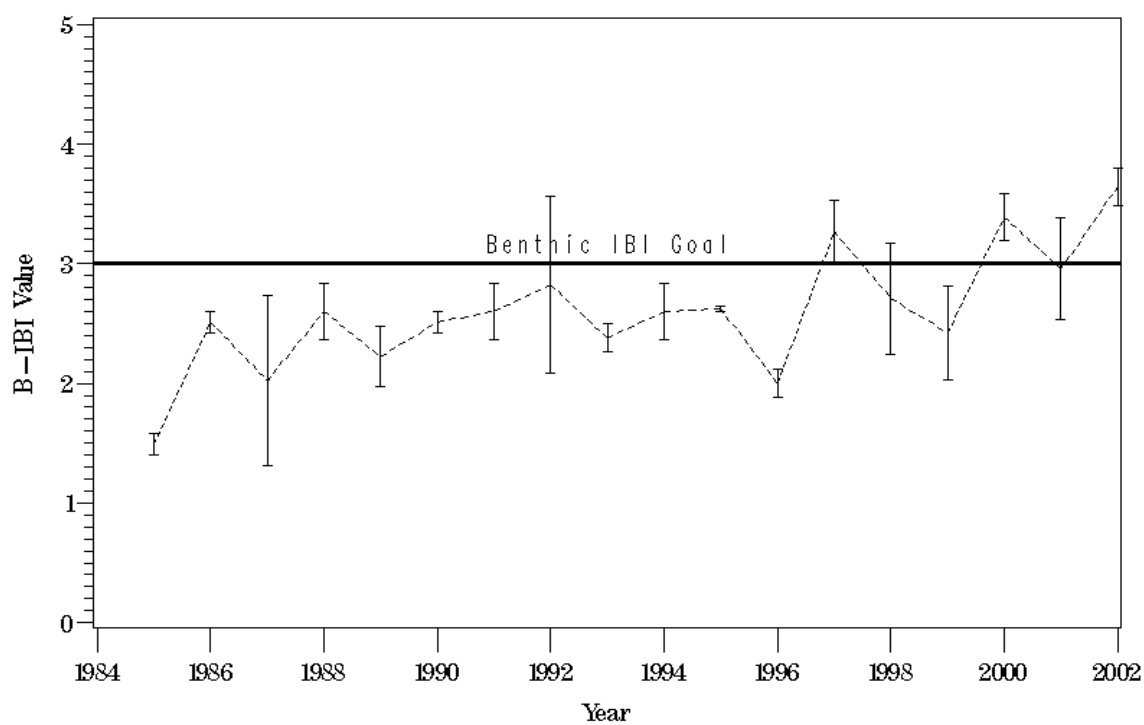


Figure O2. Plot of the benthic IBI against time at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

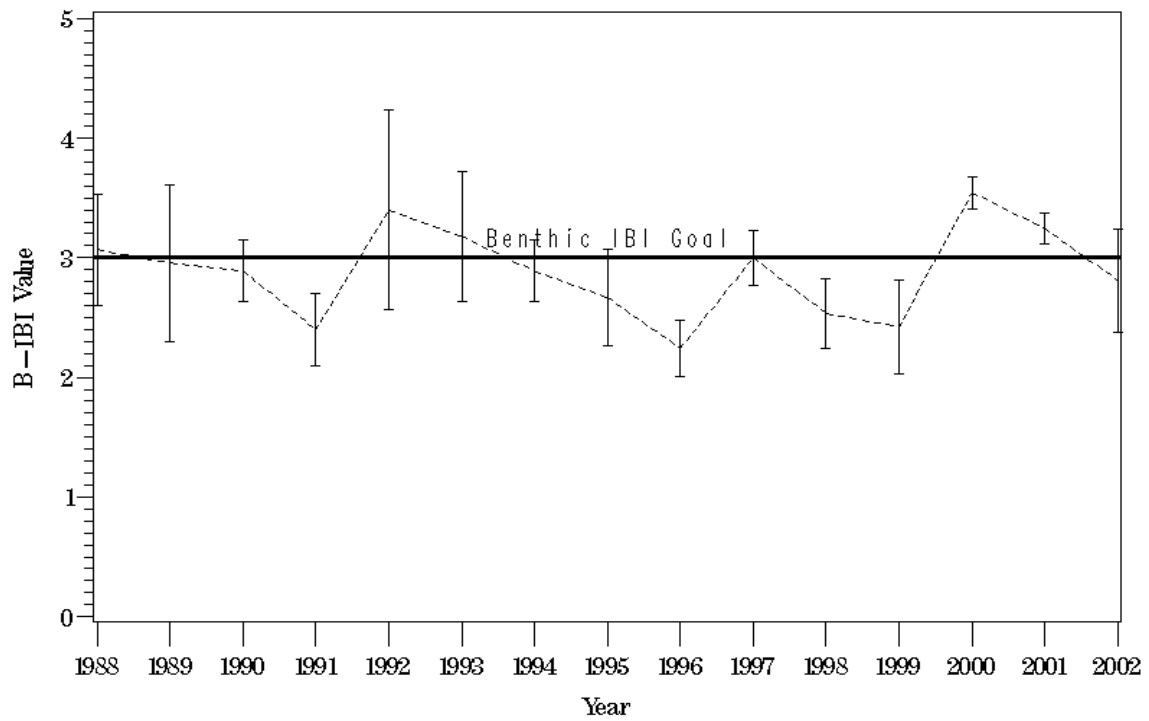


Figure O3. Plot of the benthic IBI against time at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

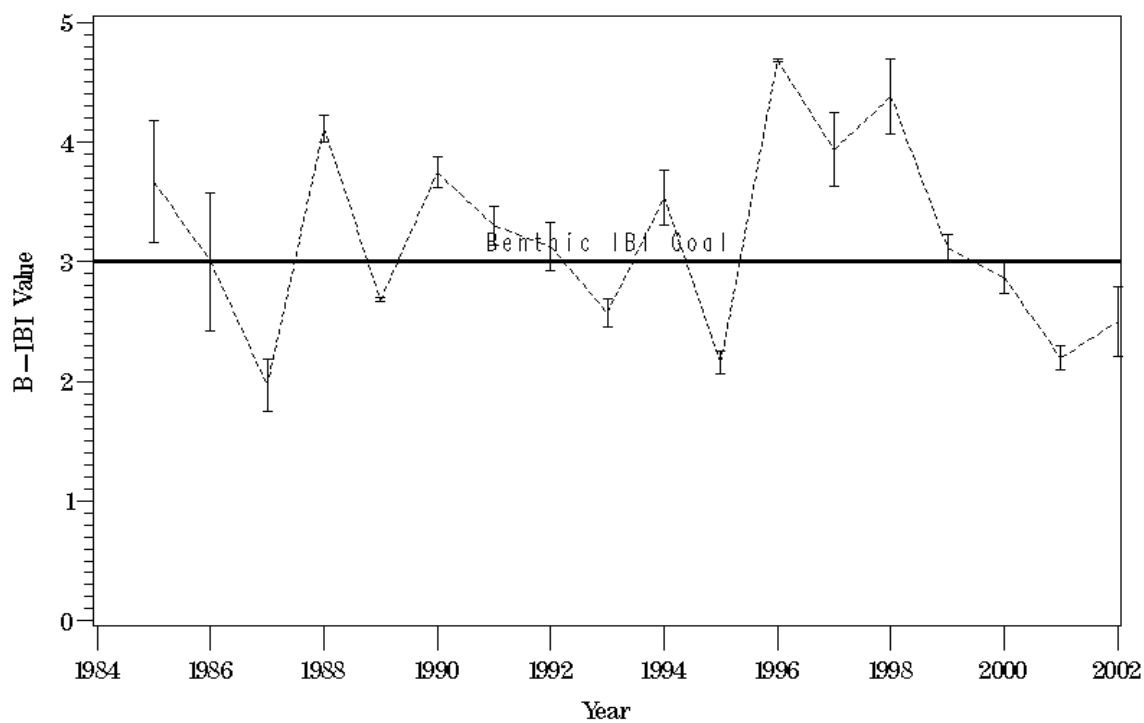


Figure O4. Plot of the benthic IBI against time at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

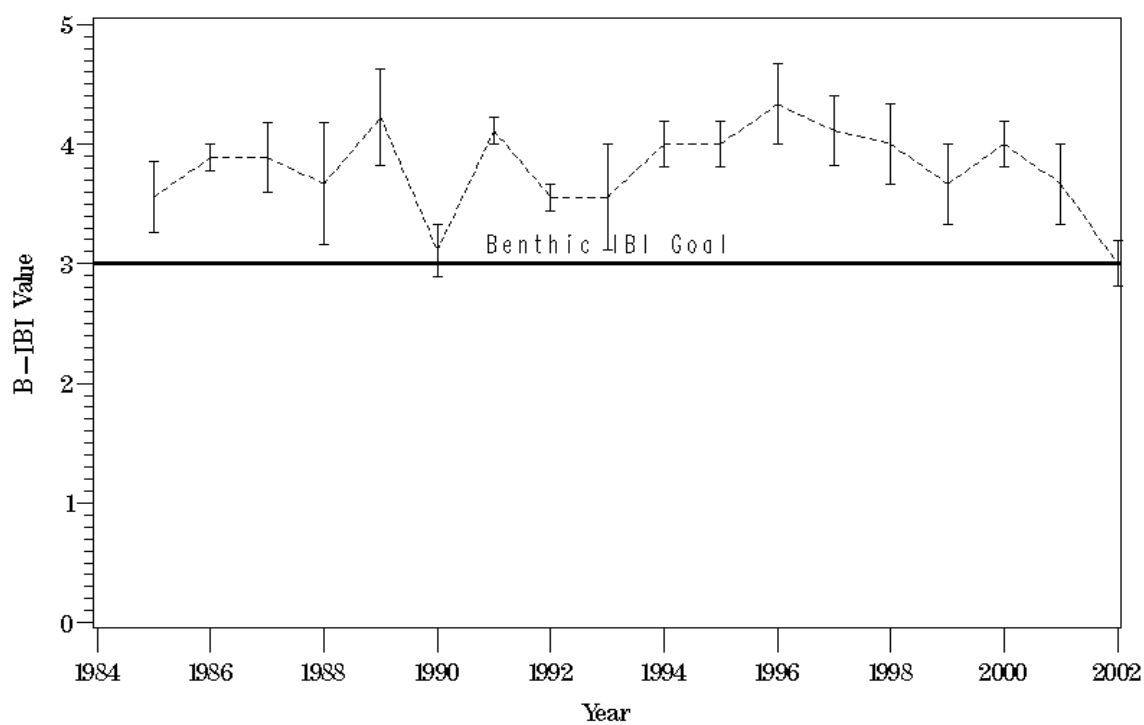


Figure O5. Plot of the benthic IBI against time at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

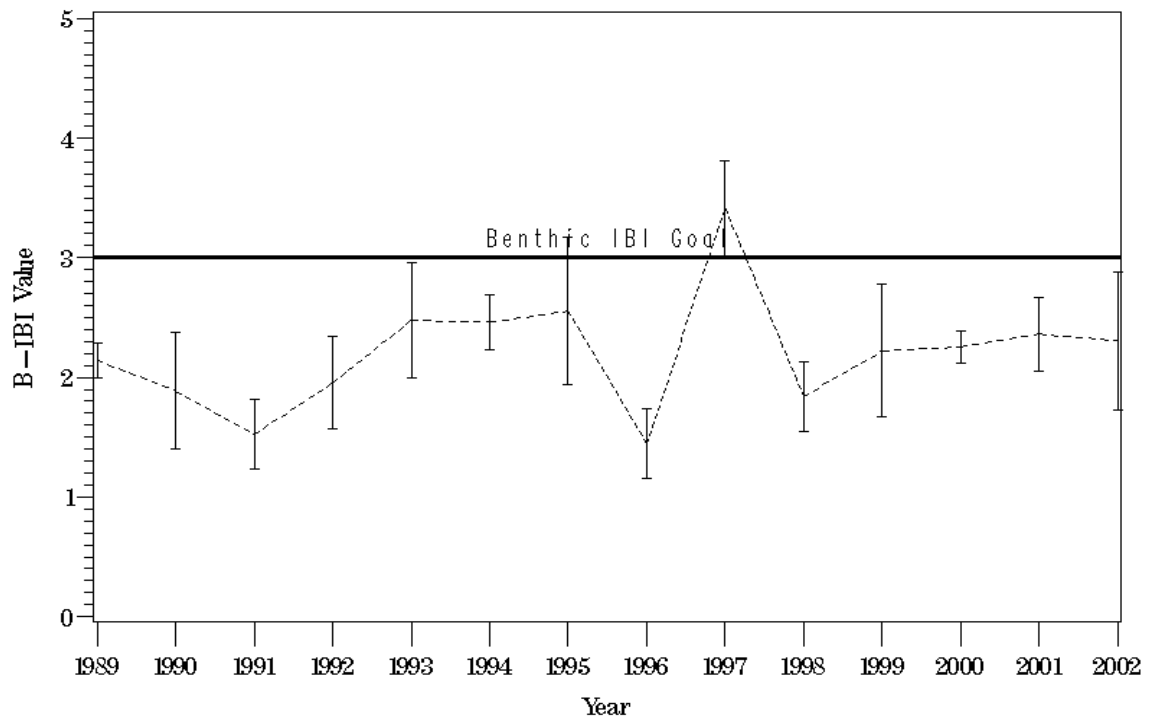


Figure O6. Plot of the benthic IBI against time at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

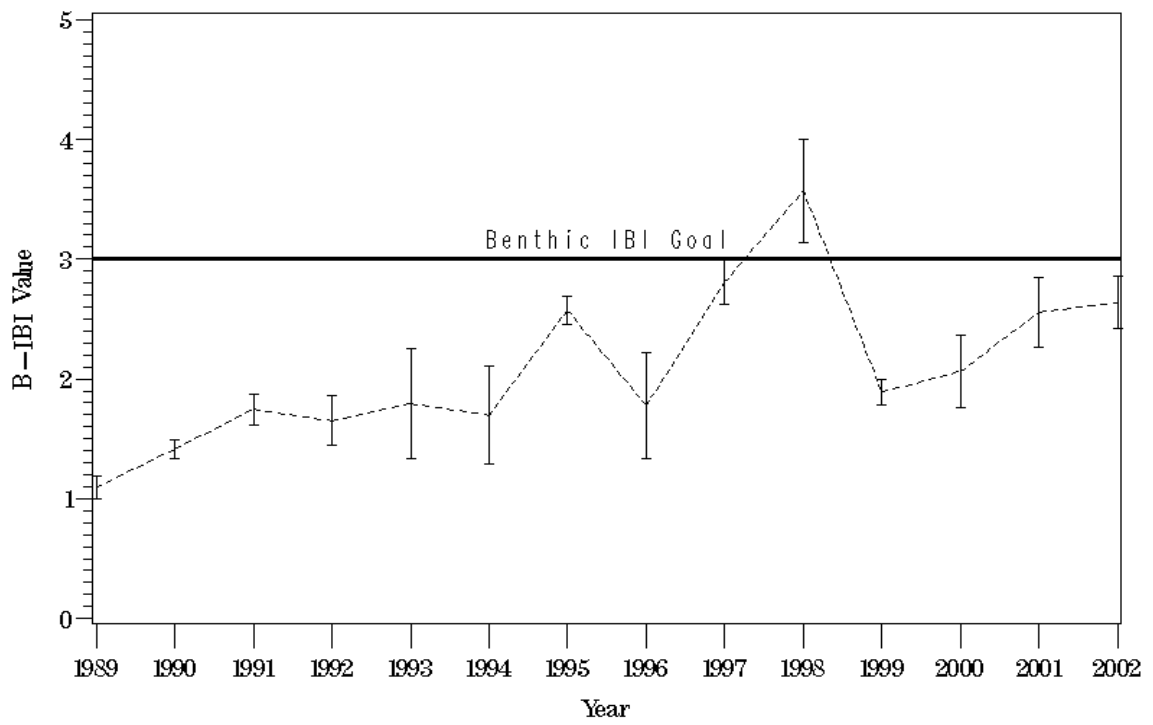


Figure O7. Plot of the benthic IBI against time at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

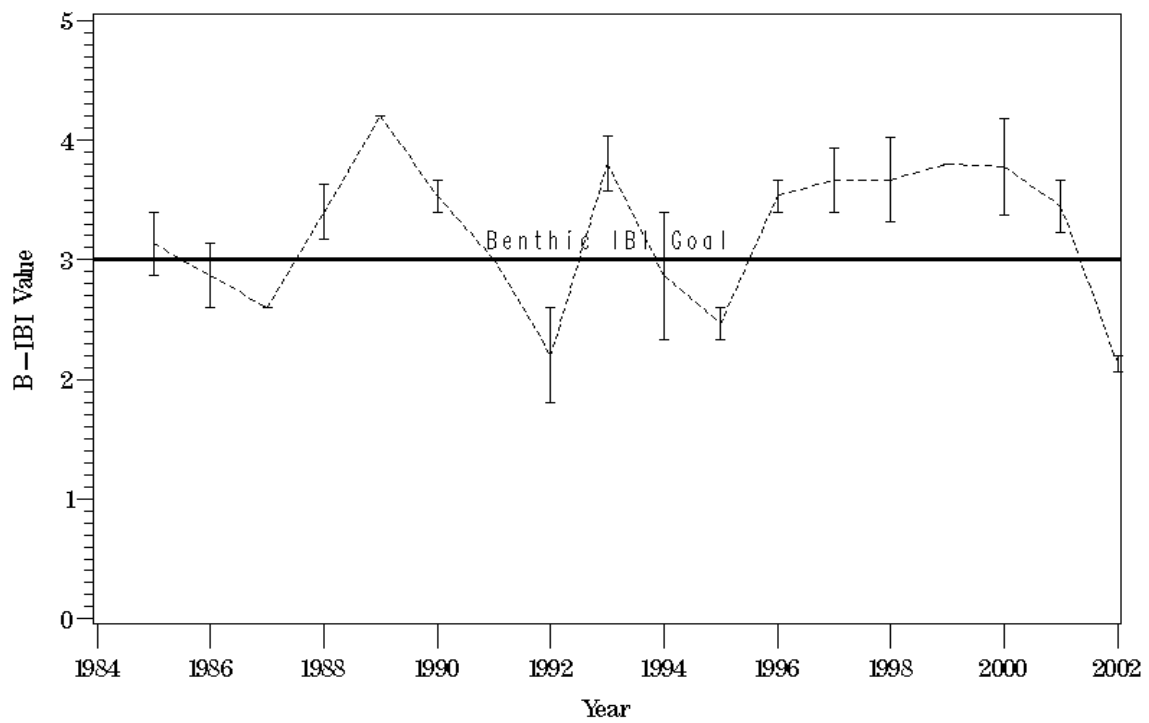


Figure O8. Plot of the benthic IBI against time at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

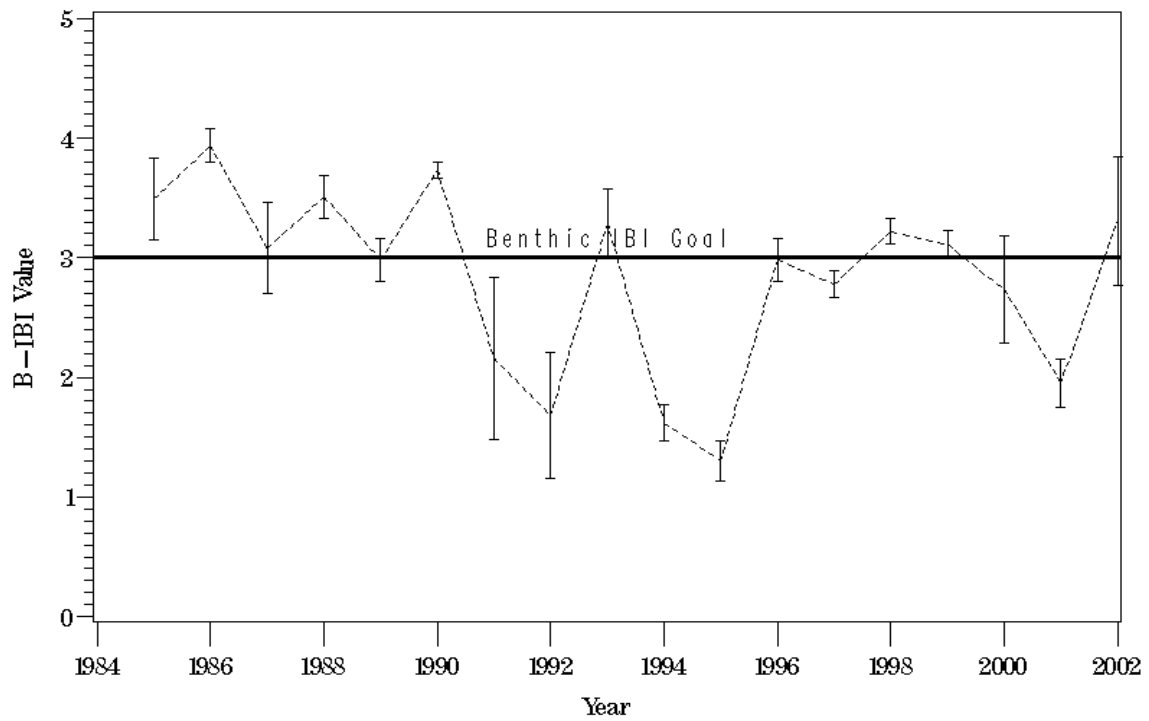


Figure O9. Plot of the benthic IBI against time at station RET4.3 for 1985 through 2002.

LE4.1 (3-YP)

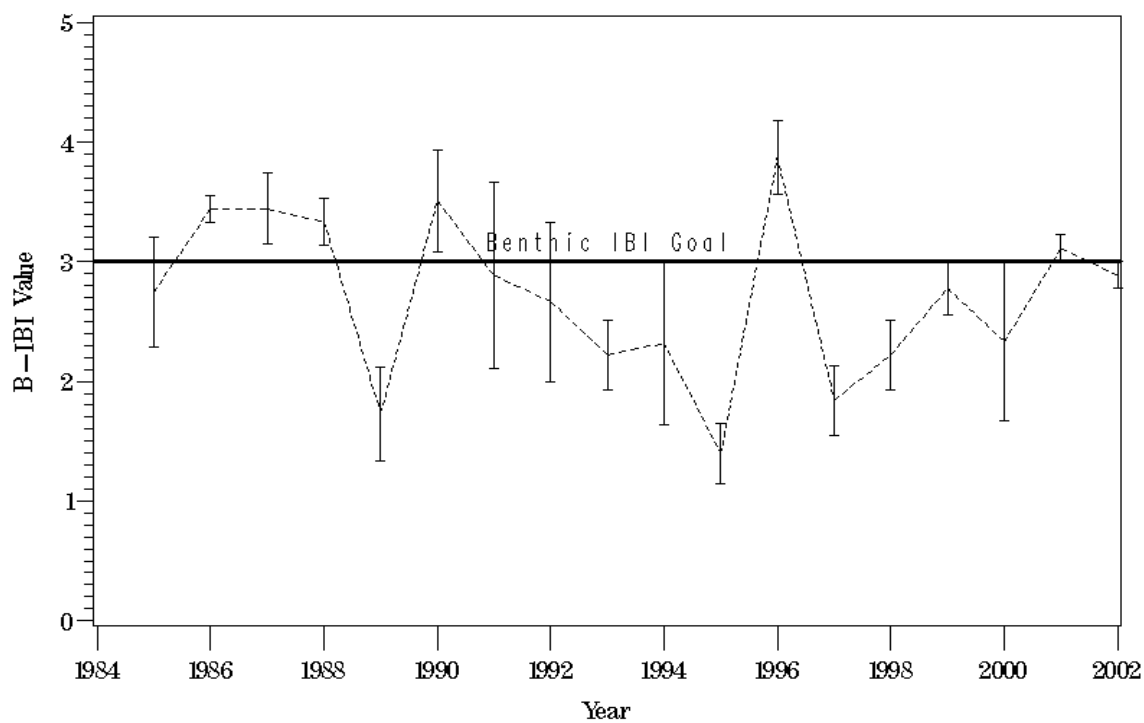


Figure O10. Plot of the benthic IBI against time at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

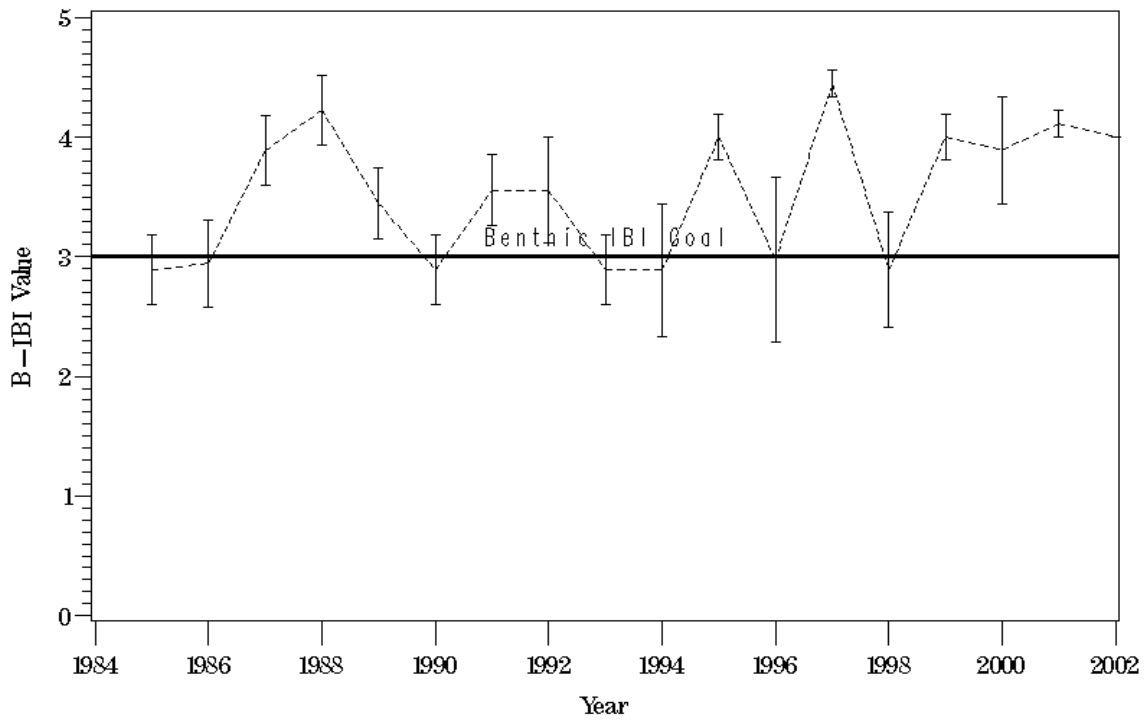


Figure O11. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

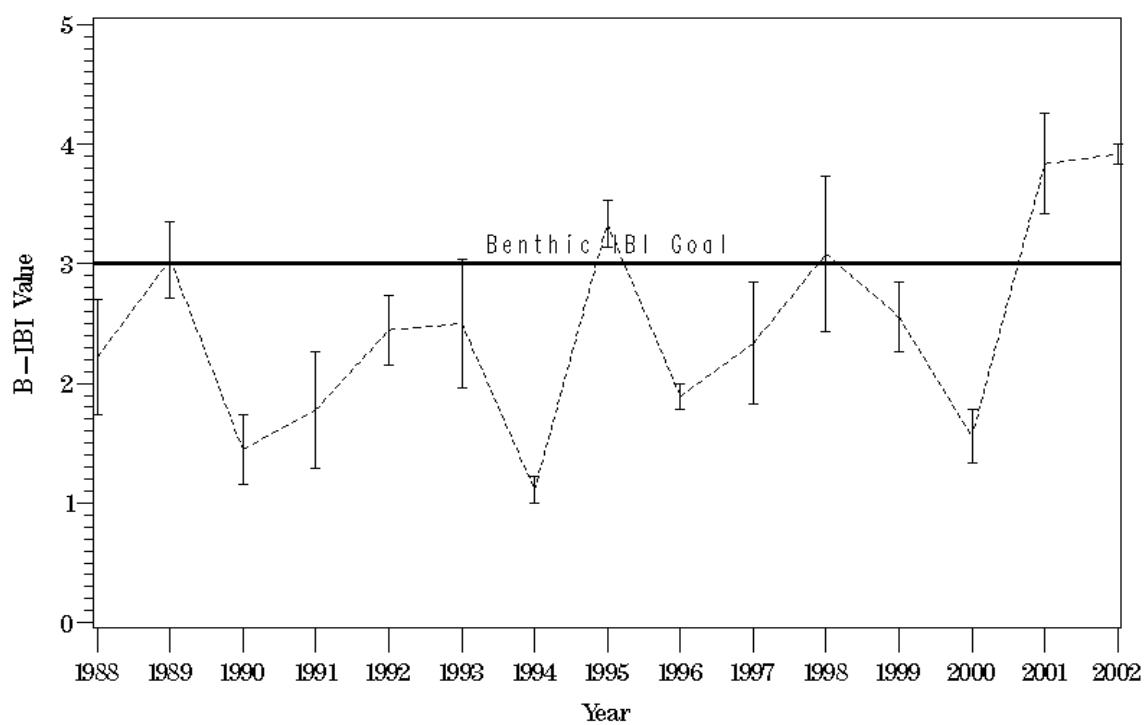


Figure O12. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2002.

TF3.3 (1-R)

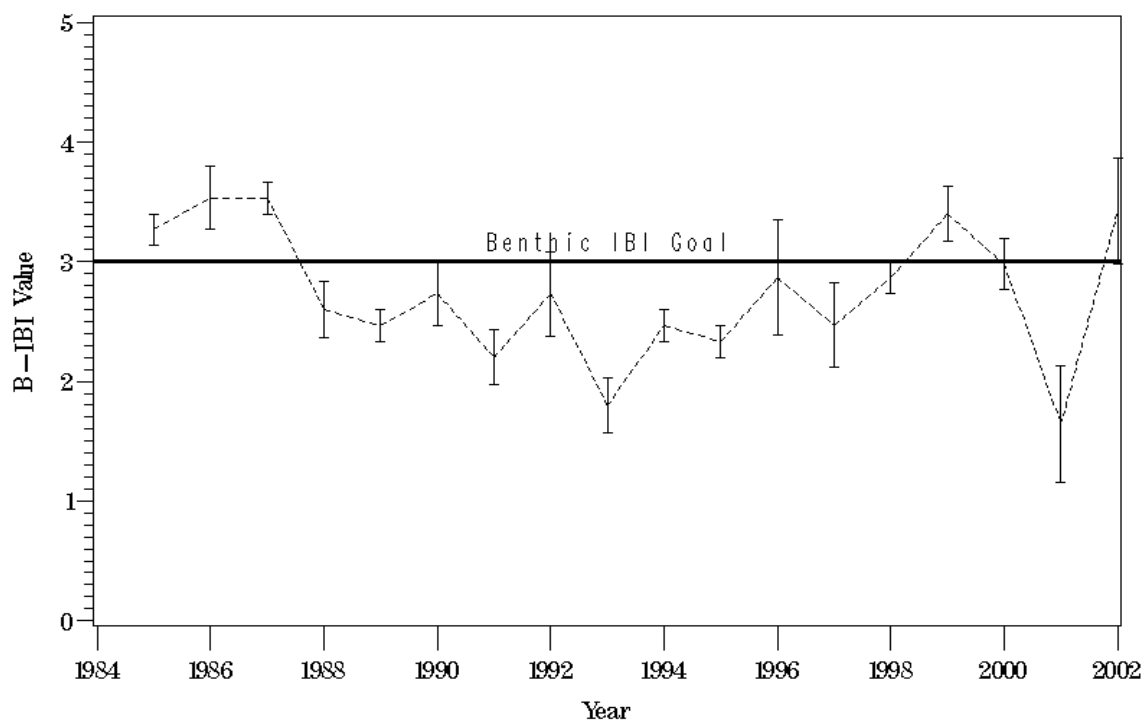


Figure O13. Plot of the benthic IBI against time at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

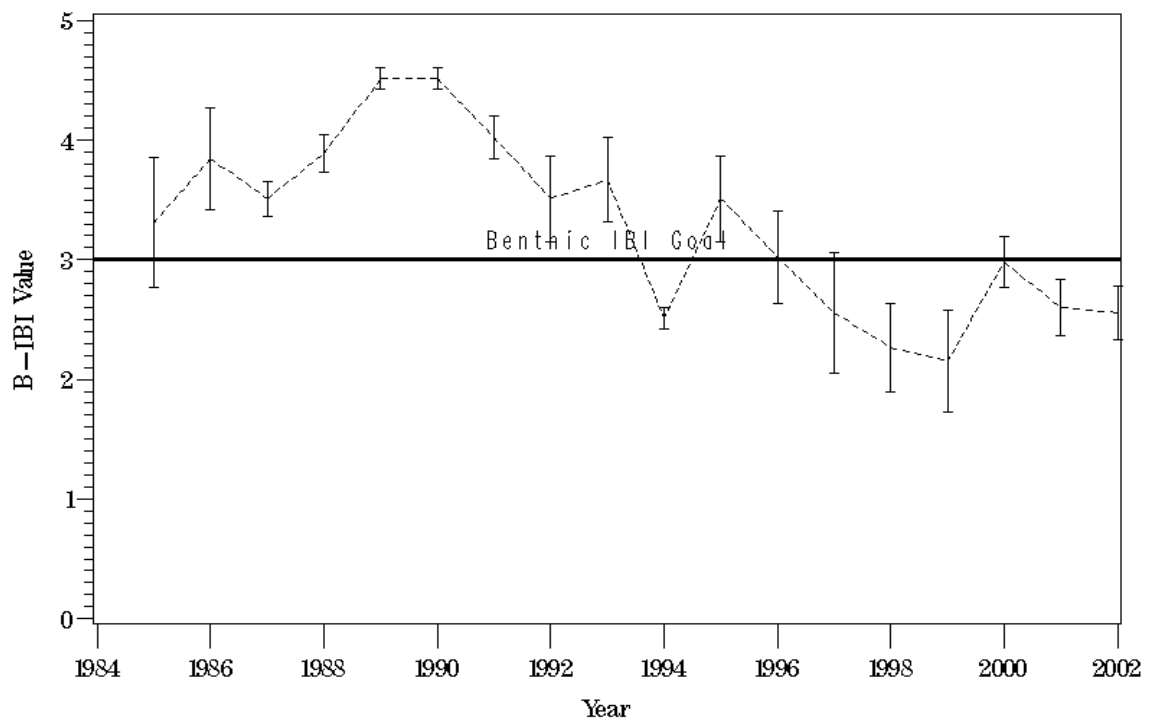


Figure O14. Plot of the benthic IBI against time at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

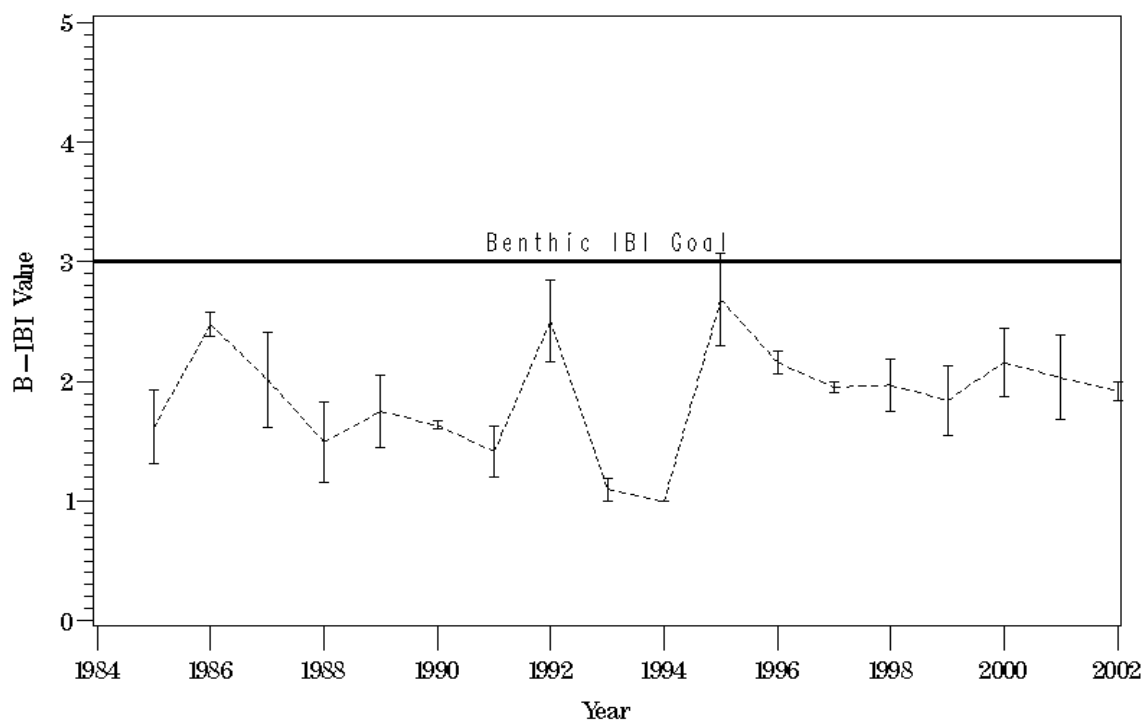


Figure O15. Plot of the benthic IBI against time at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

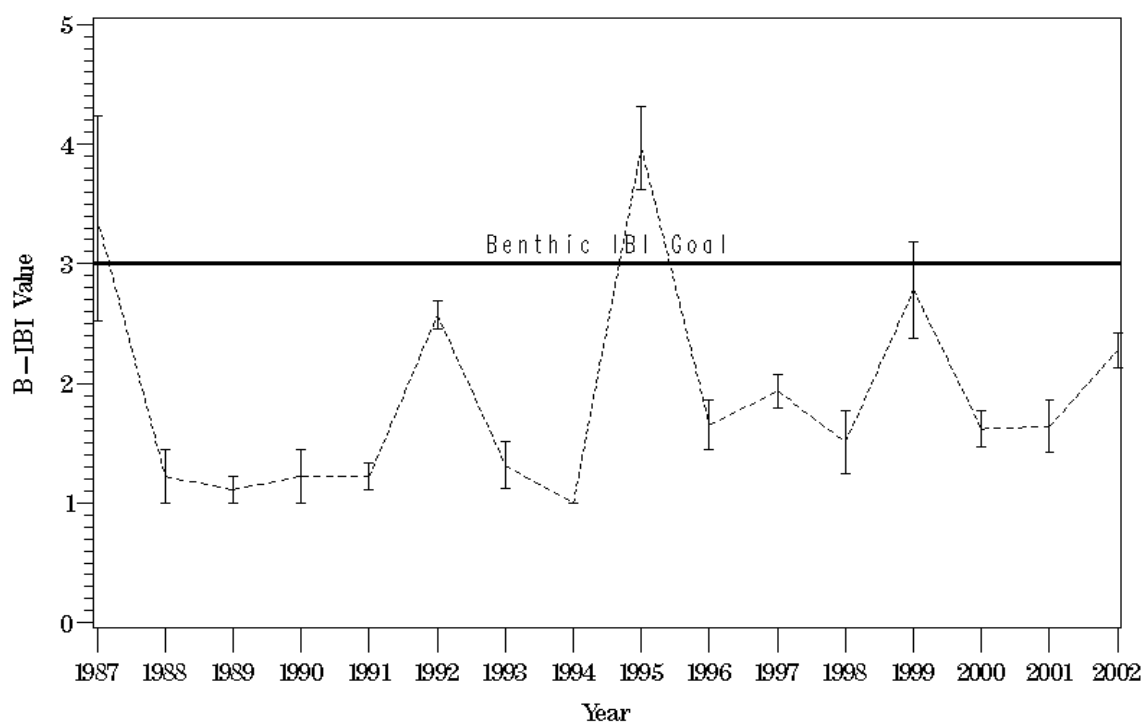


Figure O16. Plot of the benthic IBI against time at station LE3.4 for 1985 through 2002.

CB5.4 (5-CB)

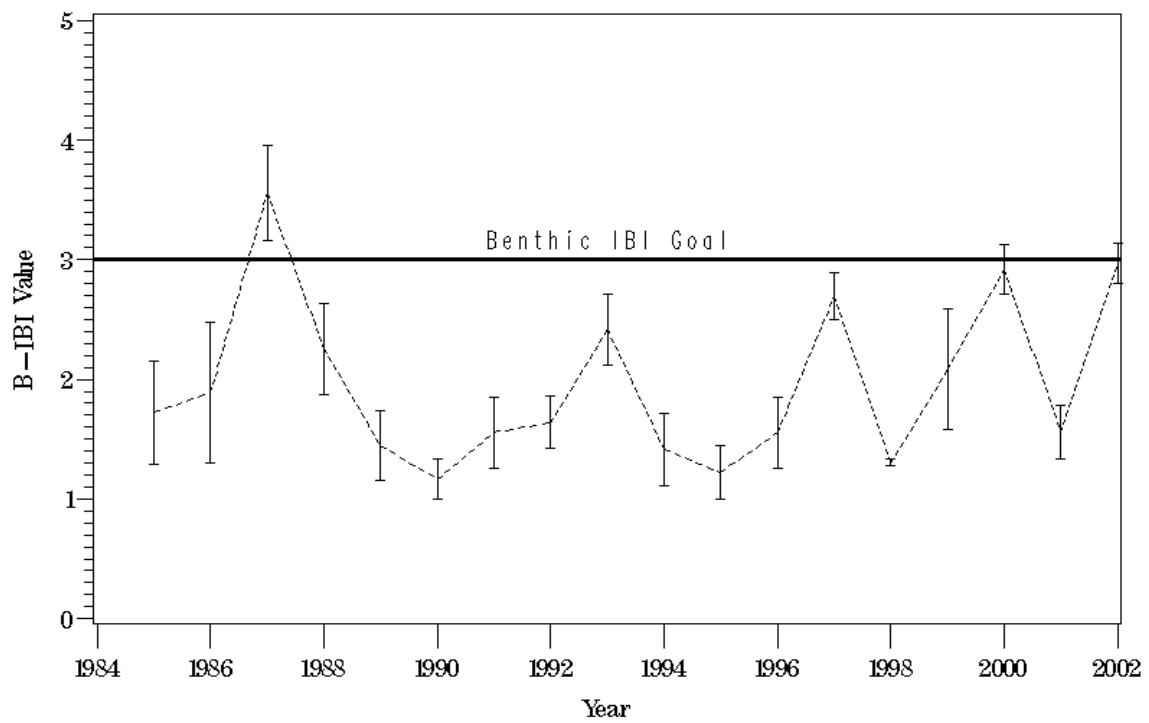


Figure O17. Plot of the benthic IBI against time at station CB5.4 for 1985 through 2002.

CB6.1 (4-CB)

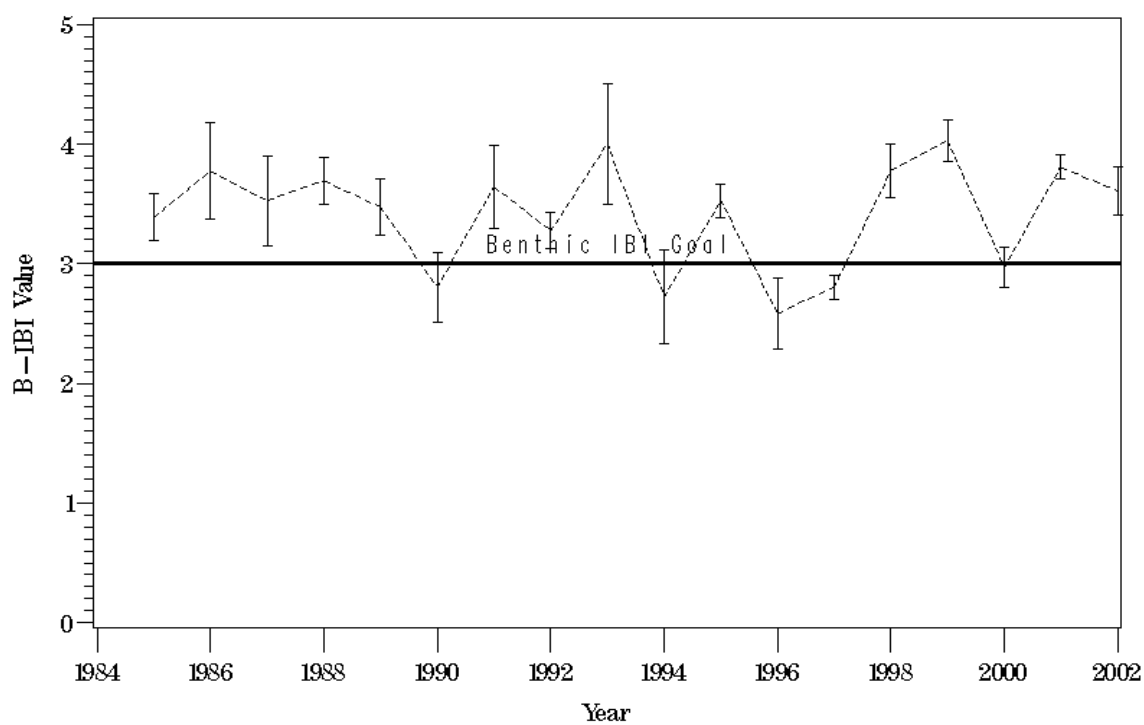


Figure O18. Plot of the benthic IBI against time at station CB6.1 for 1985 through 2002.

CB6.4 (3-CB)

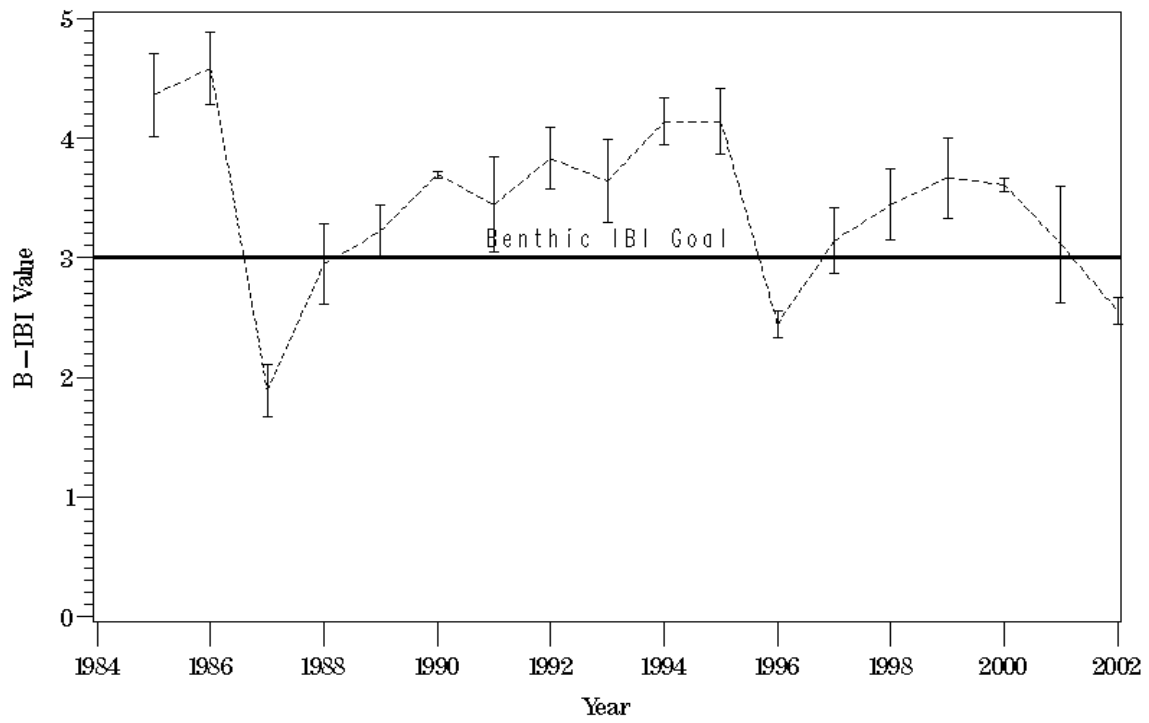


Figure O19. Plot of the benthic IBI against time at station CB6.4 for 1985 through 2002.

CB7.3E (2-CB)

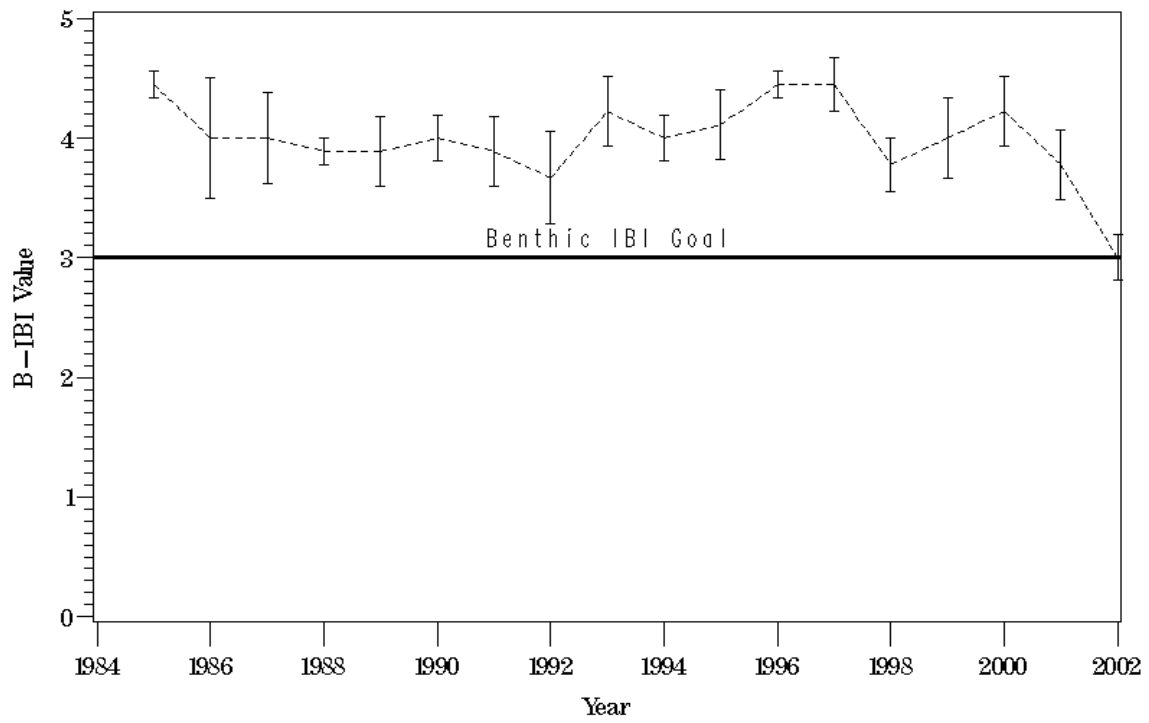


Figure O20. Plot of the benthic IBI against time at station CB7.3E for 1985 through 2002.

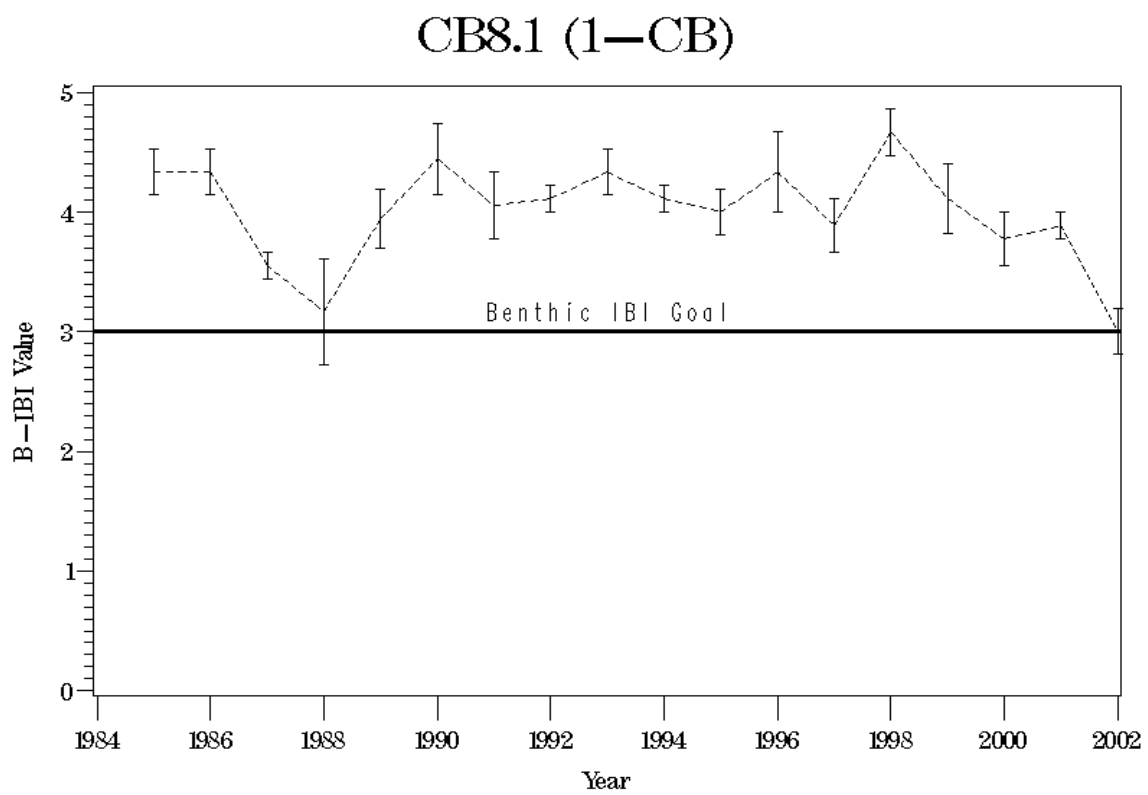


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Appendix P. Scatterplots of the B-IBI component metricsBenthic Bioindicators

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CB8.1 (1-CB)

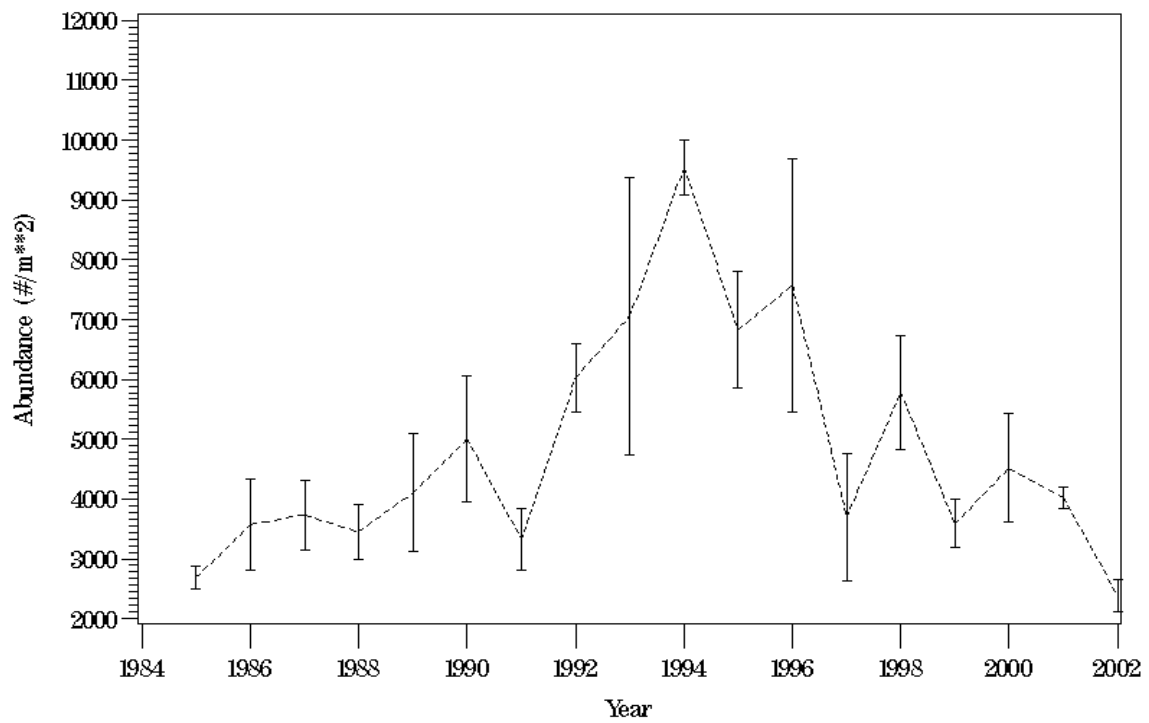


Figure P1. Plot of total benthic community abundance at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

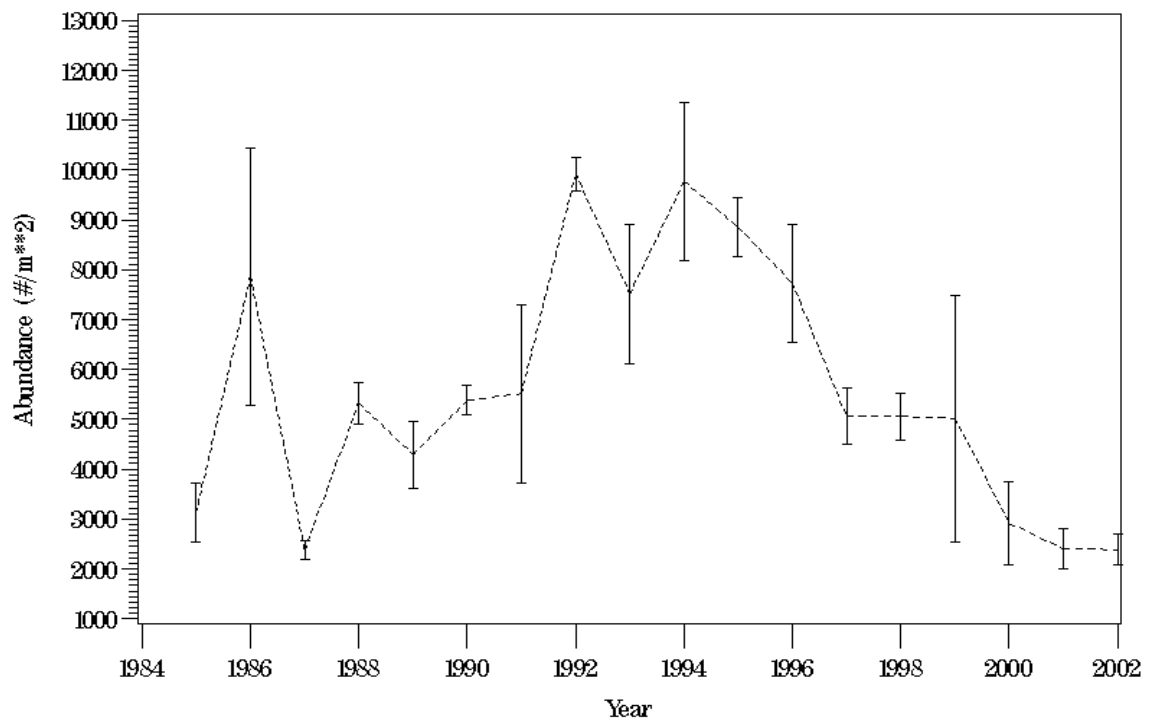


Figure P2. Plot of total benthic community abundance at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

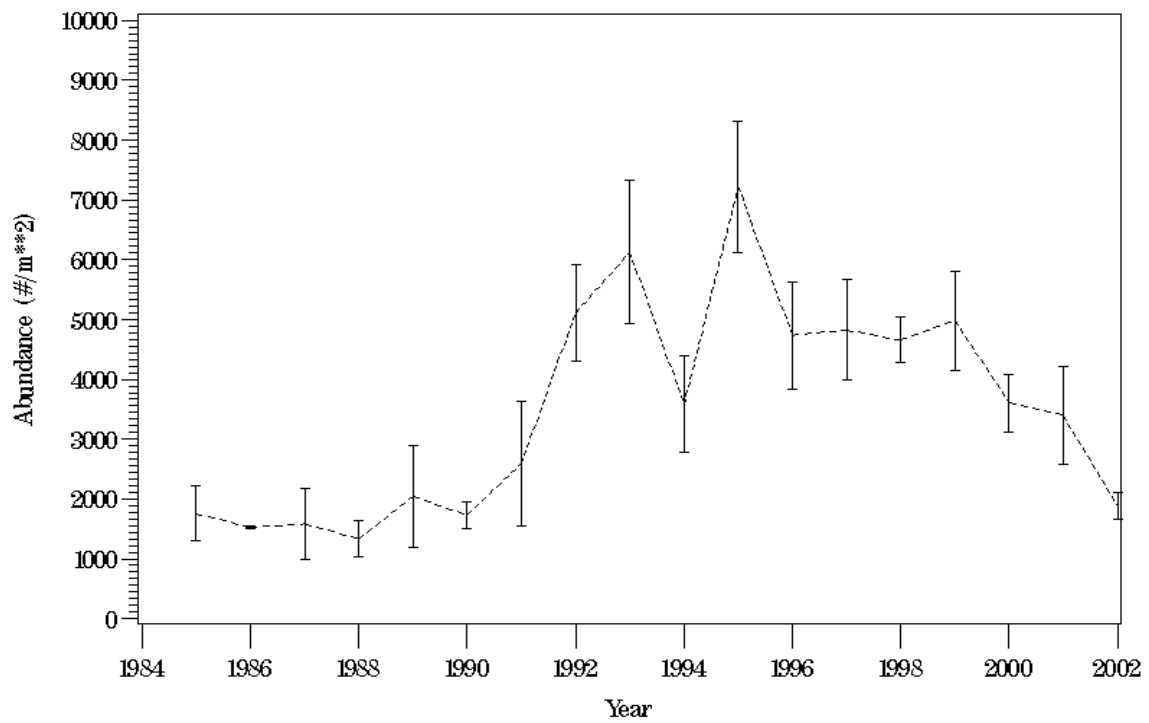


Figure P3. Plot of total benthic community abundance at station CB6.4 for 1985 through 2002.

CB6.1 (4-CB)

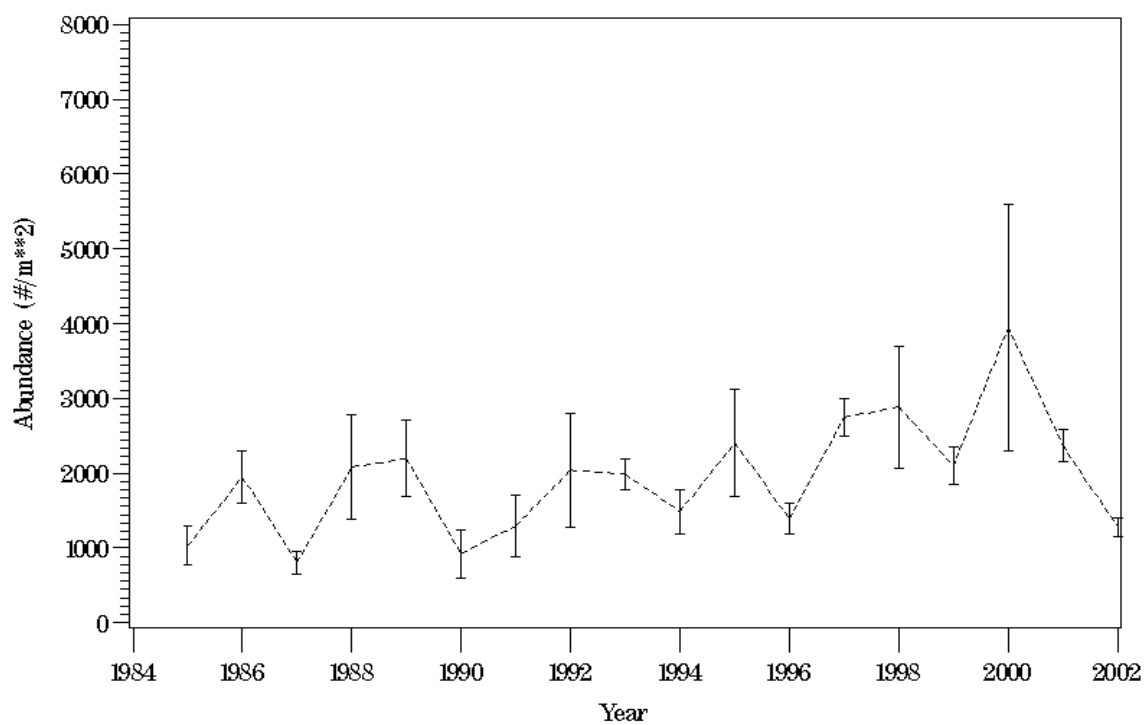


Figure P4. Plot of total benthic community abundance at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

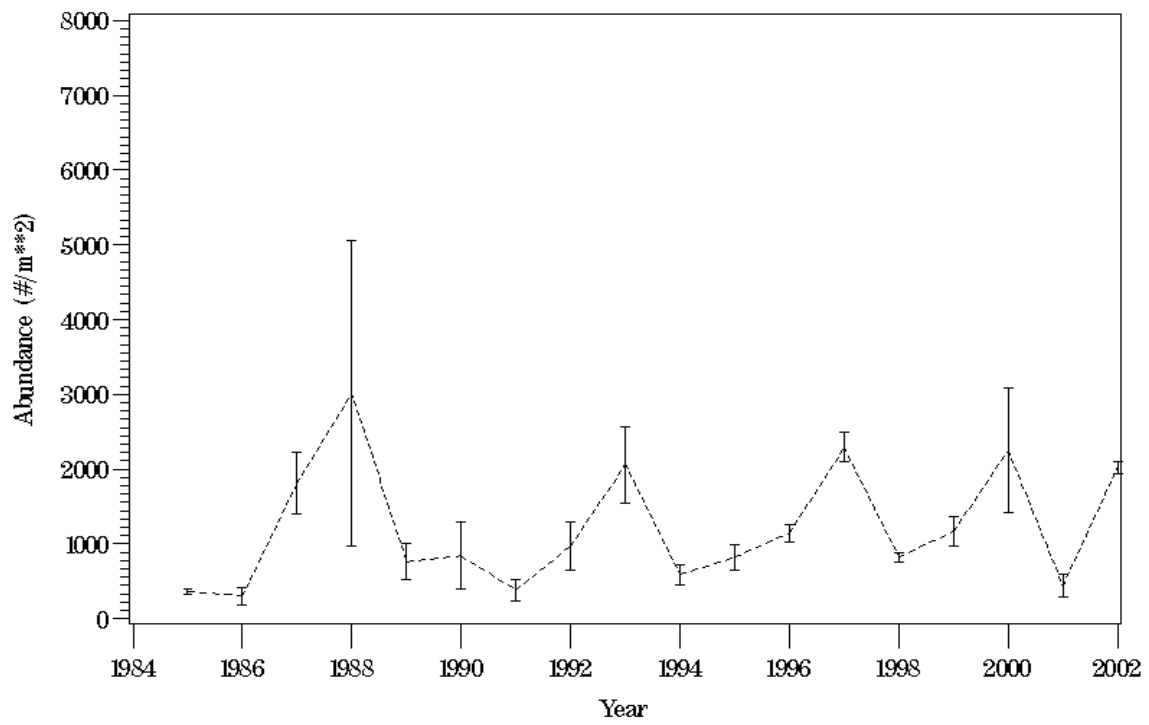


Figure P5. Plot of total benthic community abundance at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

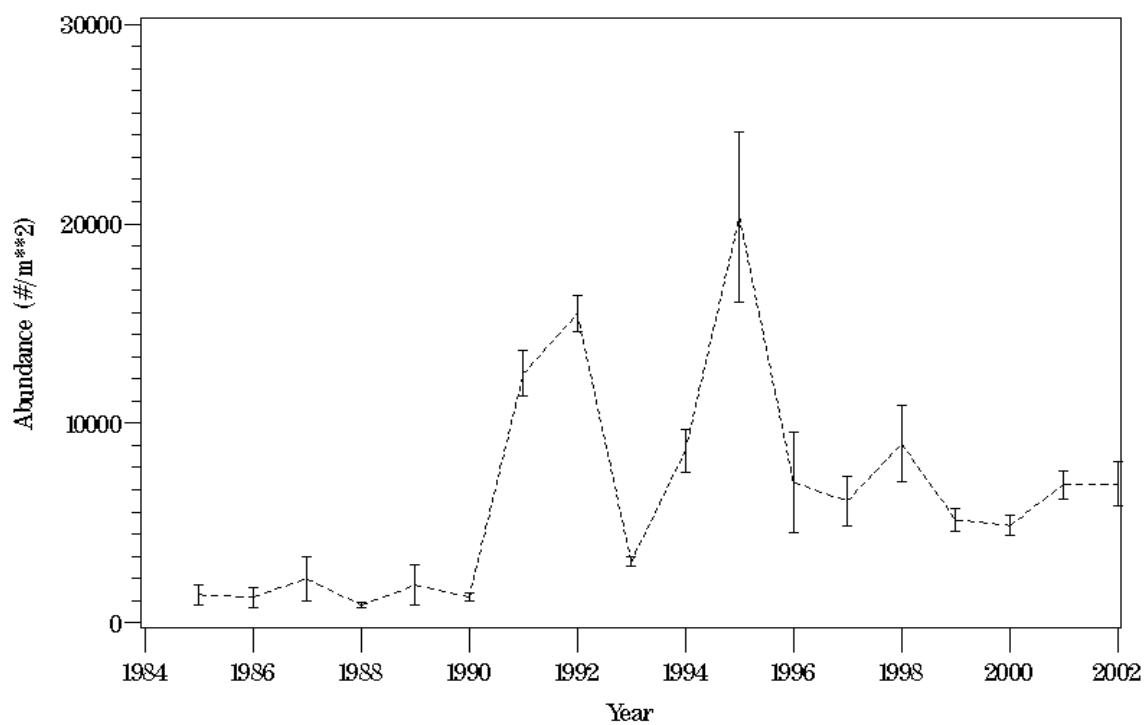


Figure P6. Plot of total benthic community abundance at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

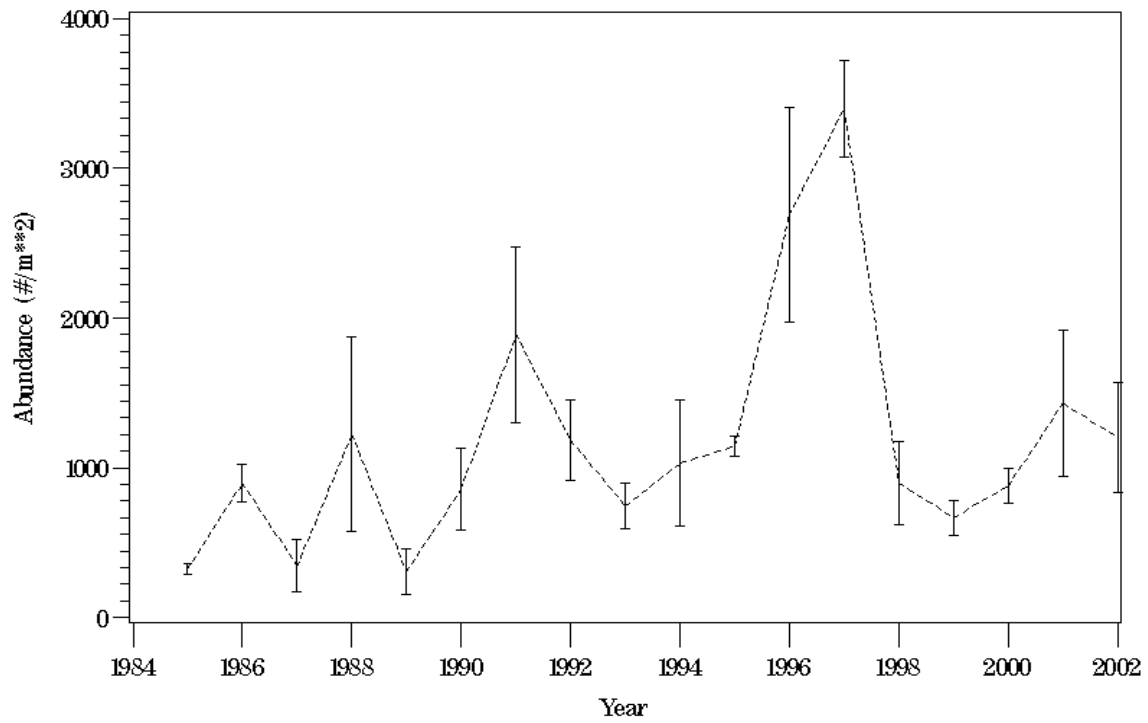


Figure P7. Plot of total benthic community abundance at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

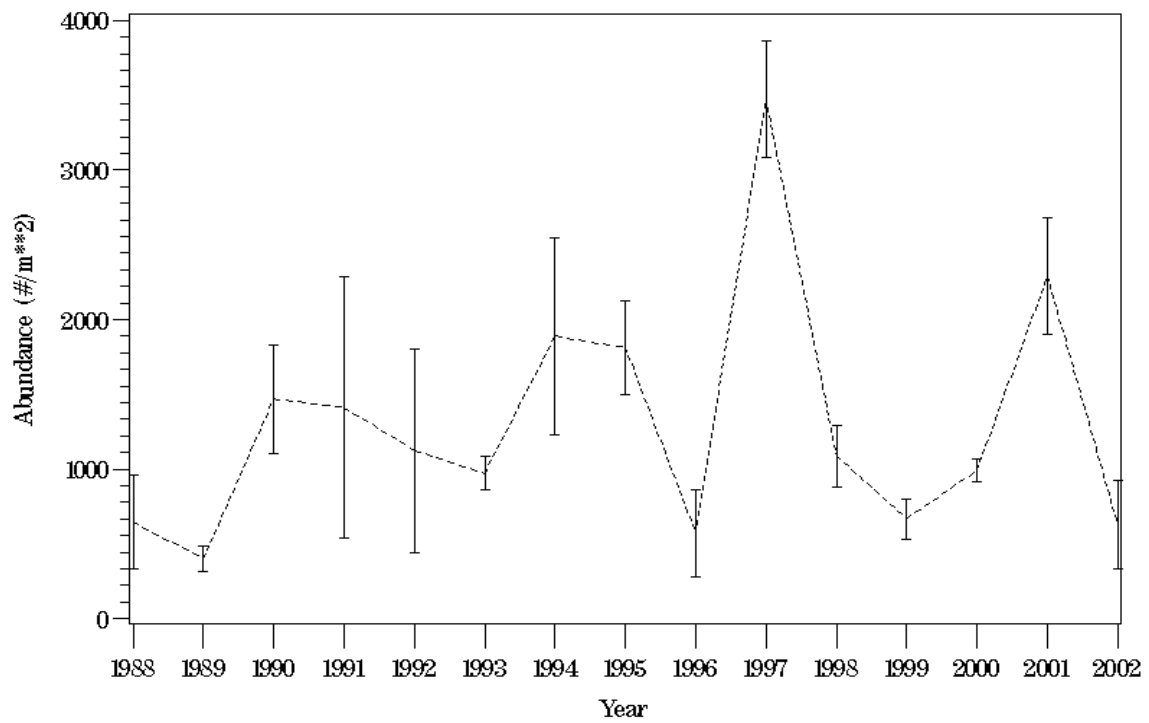


Figure P8. Plot of total benthic community abundance at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

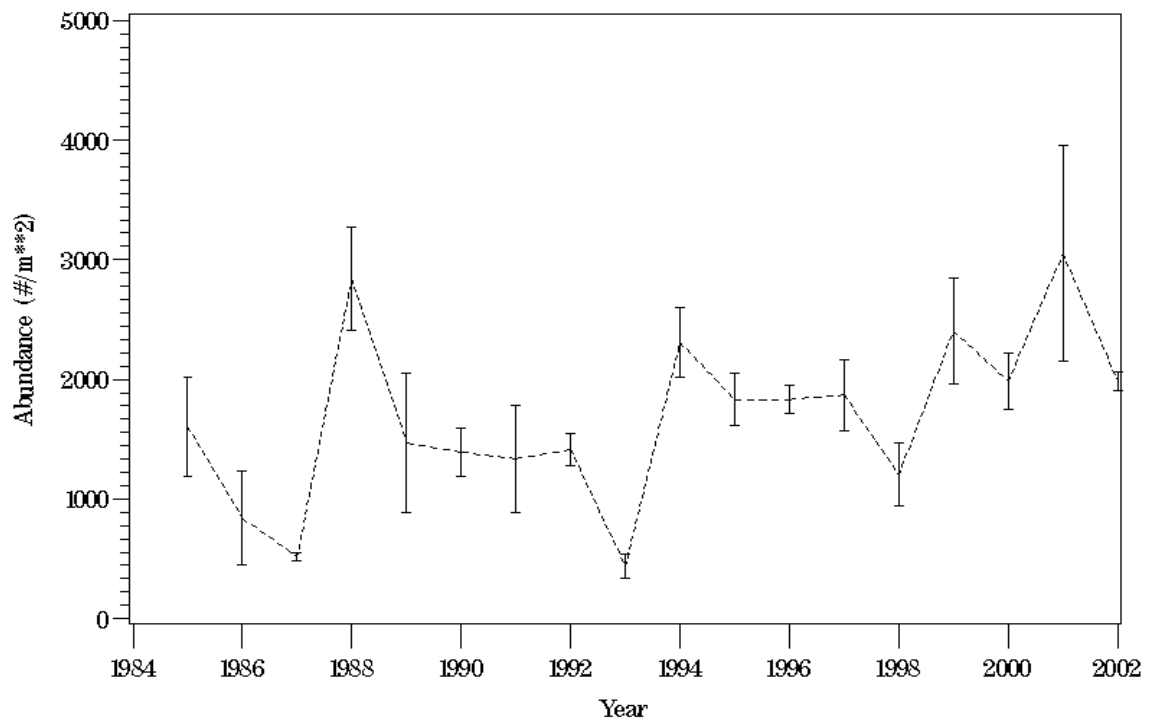


Figure P9. Plot of total benthic community abundance at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

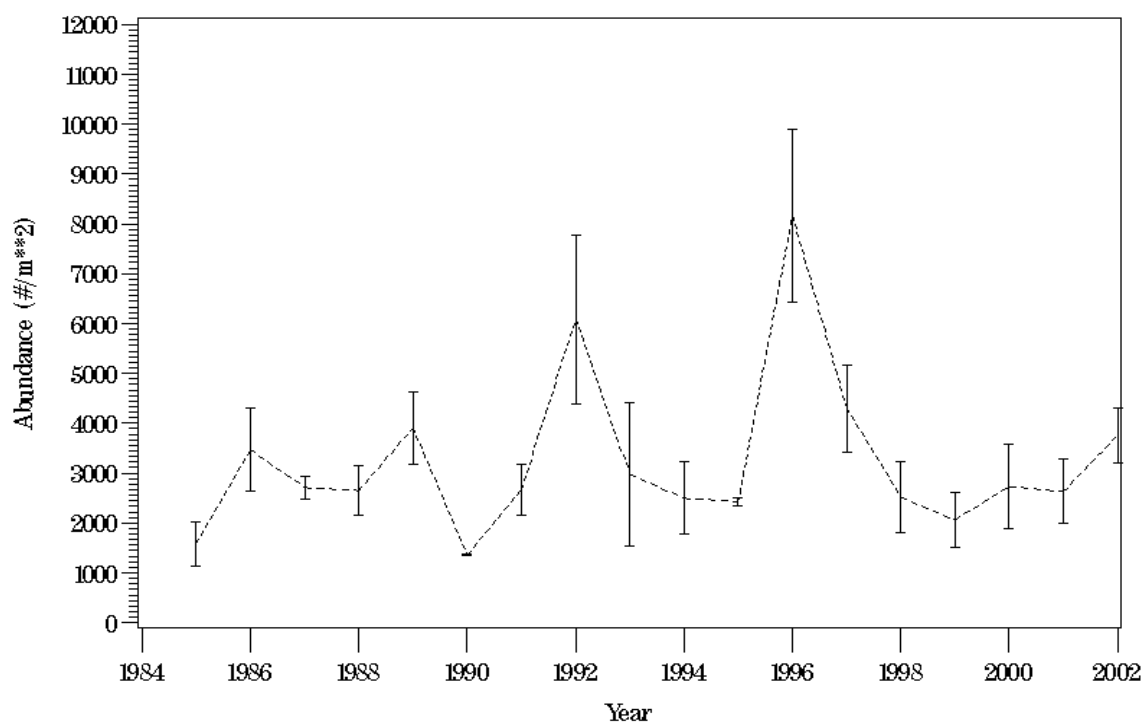


Figure P10. Plot of total benthic community abundance at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

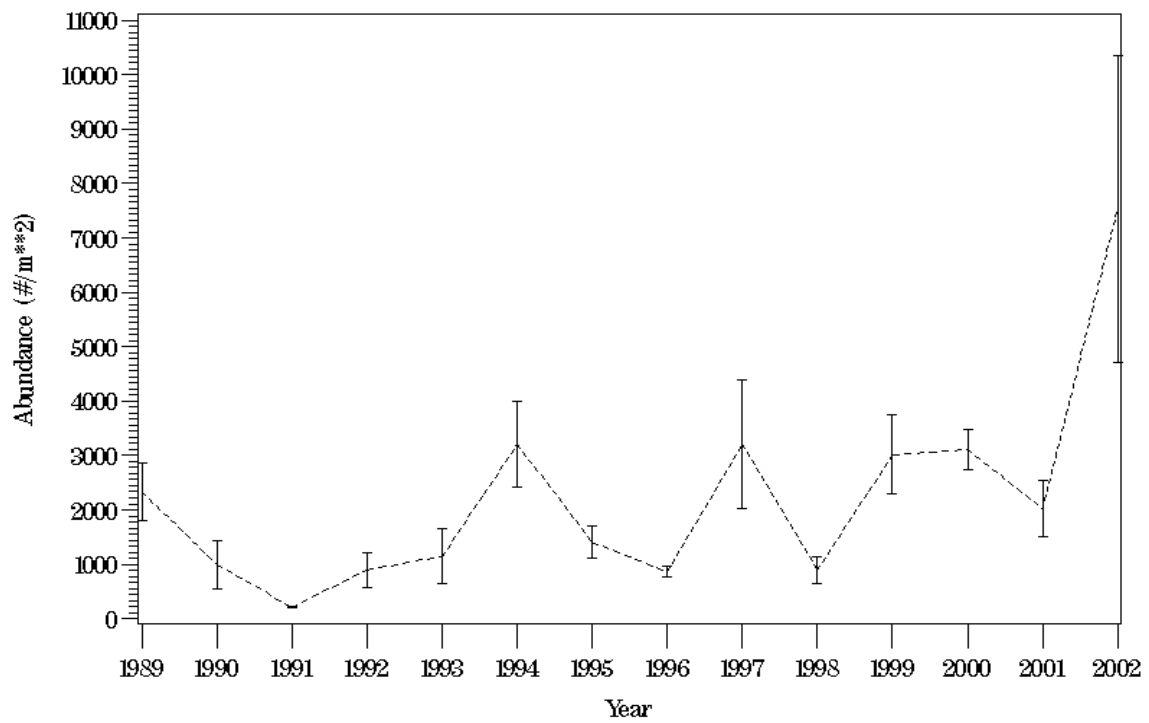


Figure P11. Plot of total benthic community abundance at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

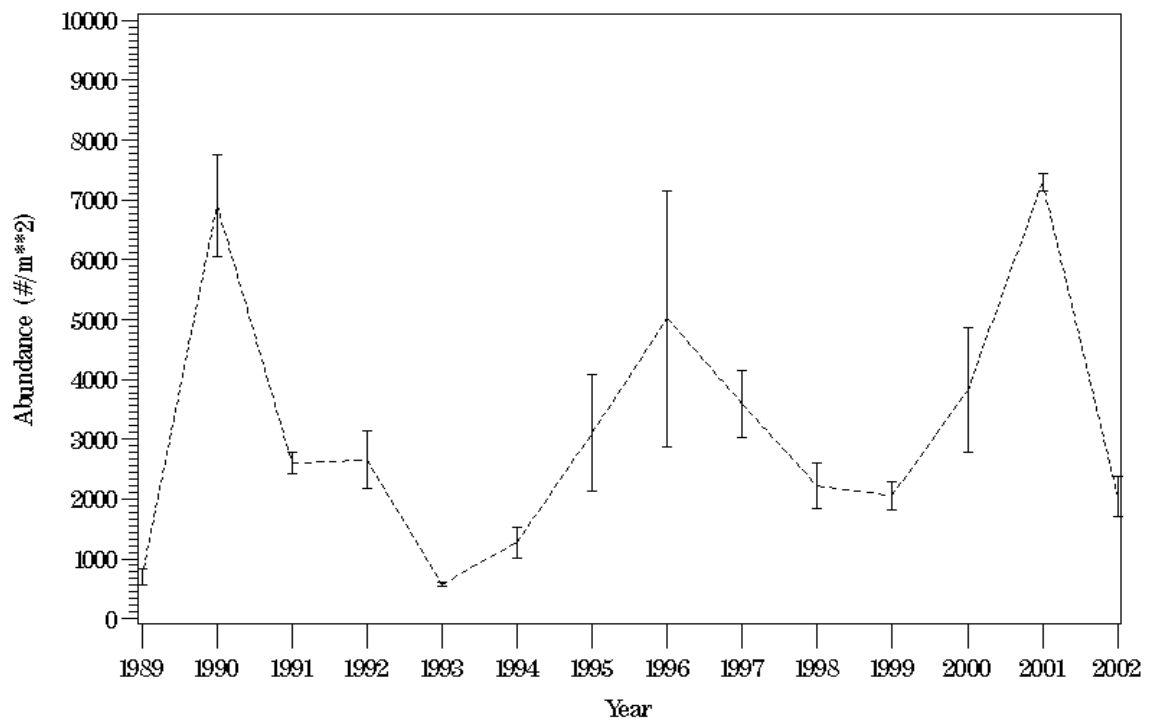


Figure P12. Plot of total benthic community abundance at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

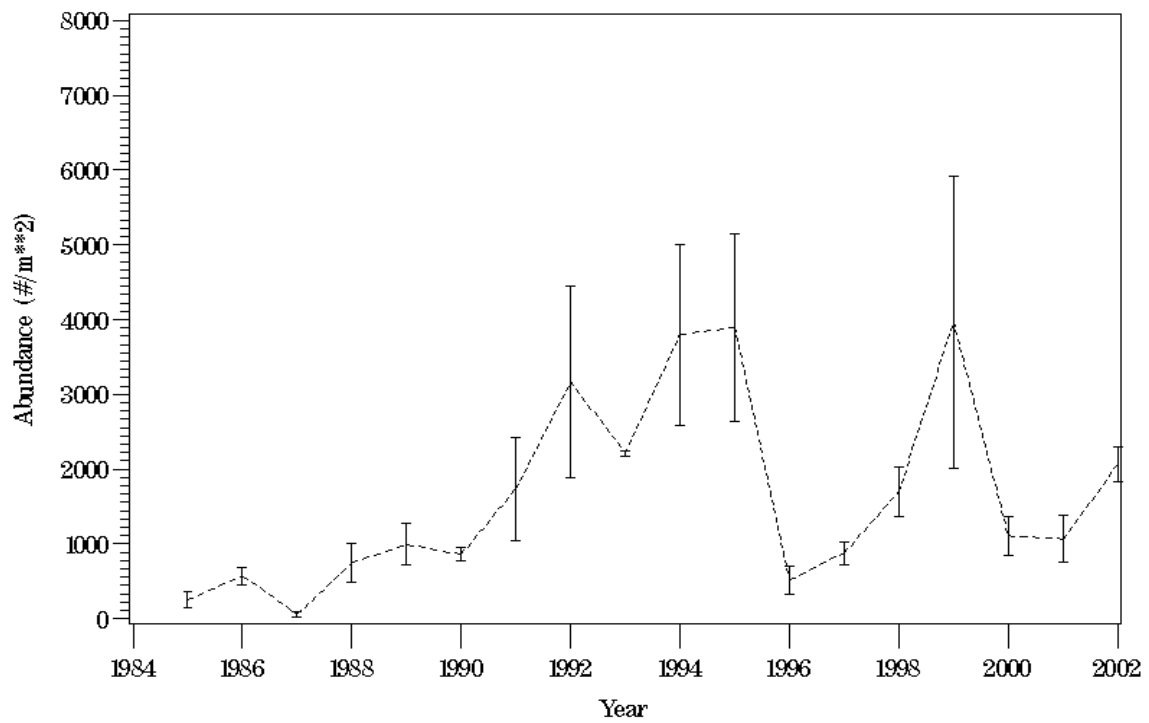


Figure P13. Plot of total benthic community abundance at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

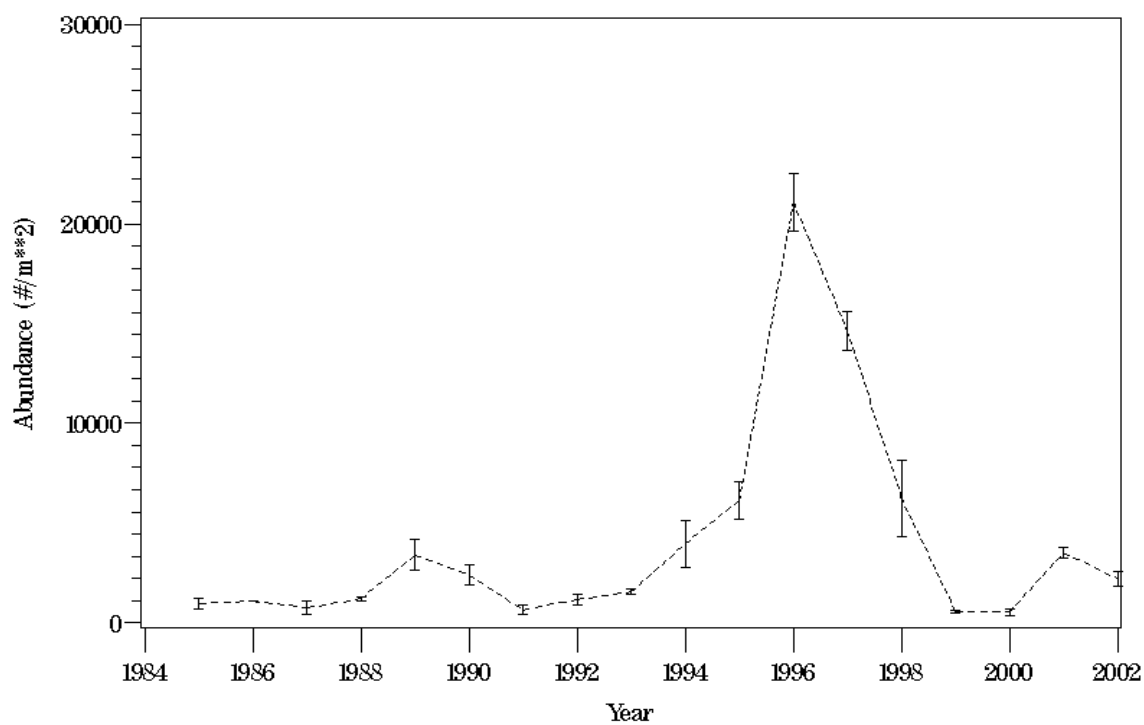


Figure P14. Plot of total benthic community abundance at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

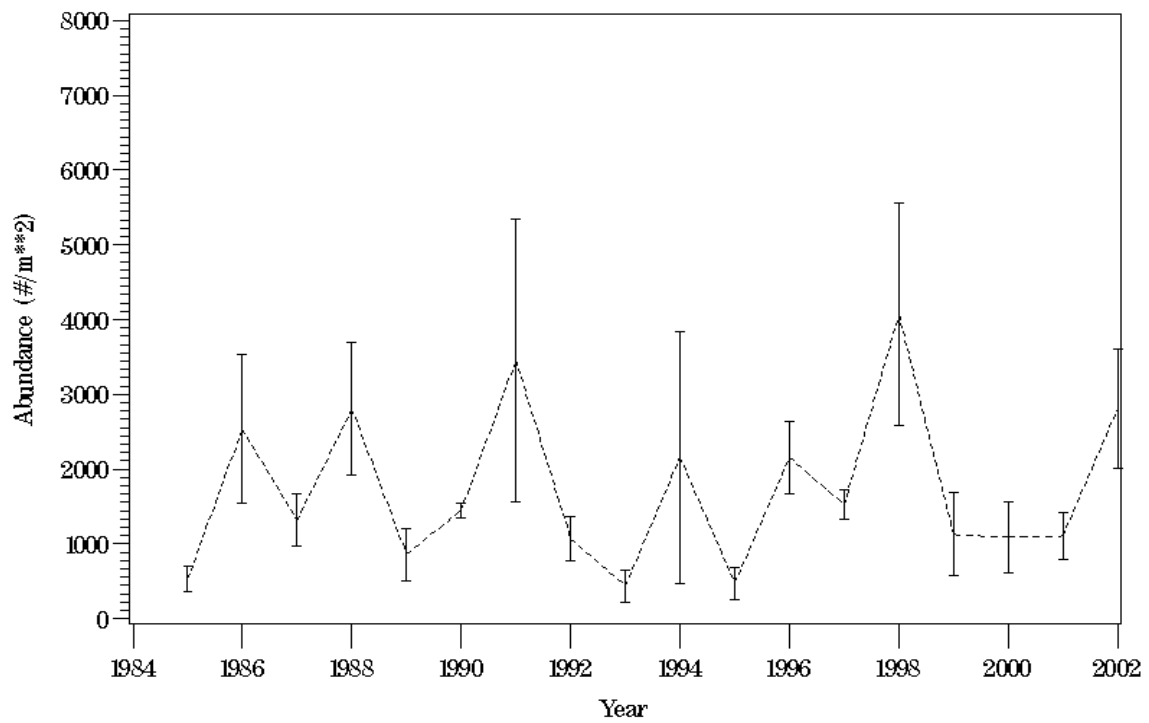


Figure P15. Plot of total benthic community abundance at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

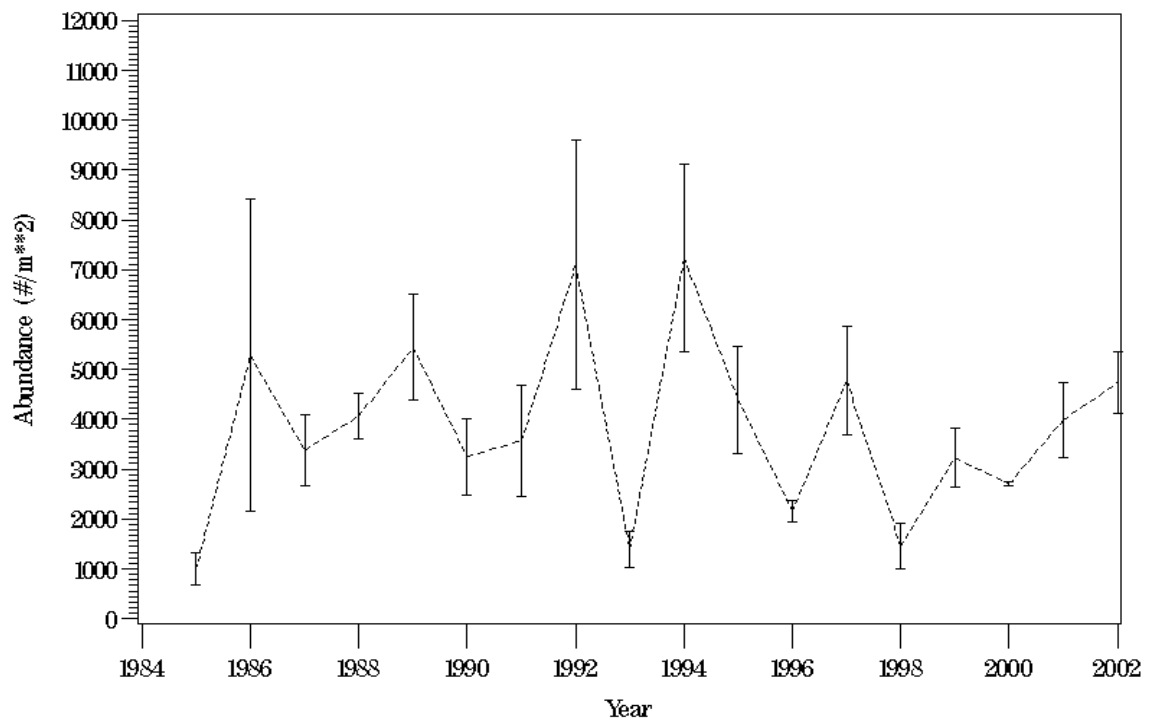


Figure P16. Plot of total benthic community abundance at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

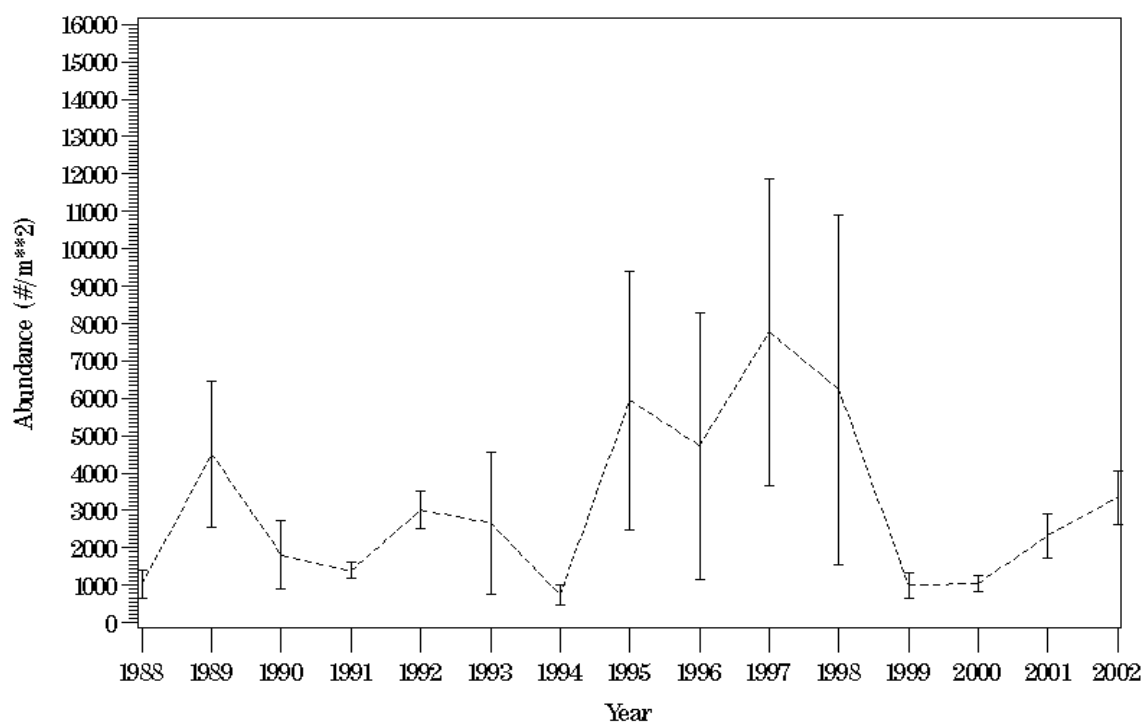


Figure P17. Plot of total benthic community abundance at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

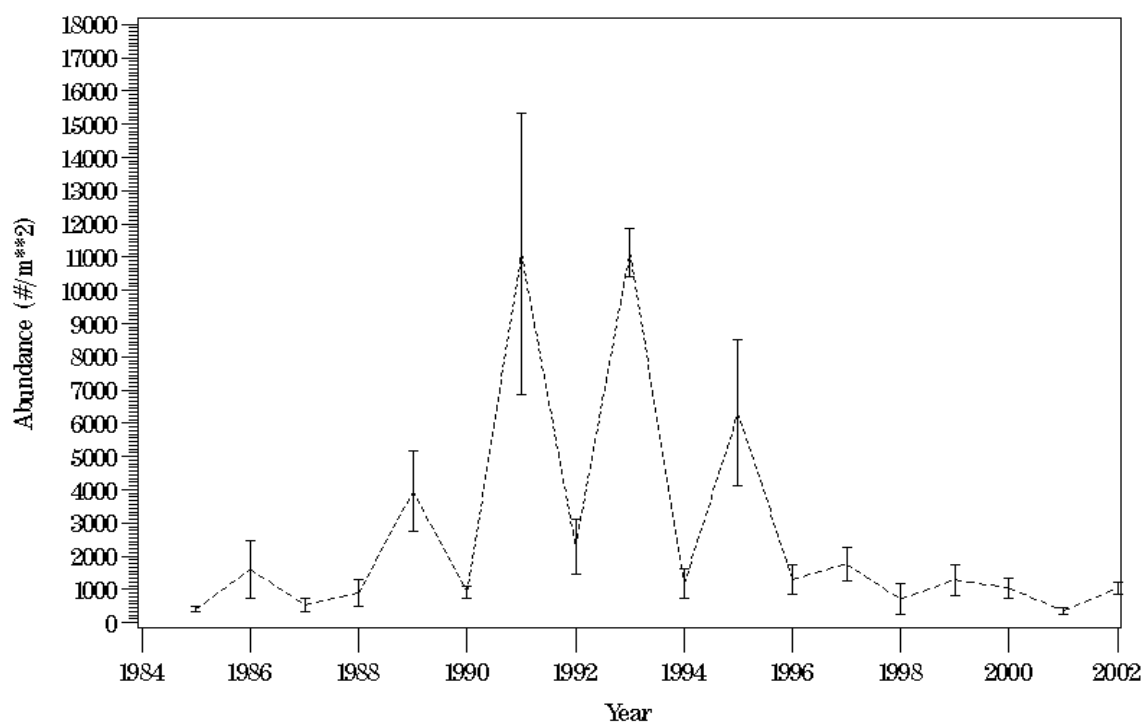


Figure P18. Plot of total benthic community abundance at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

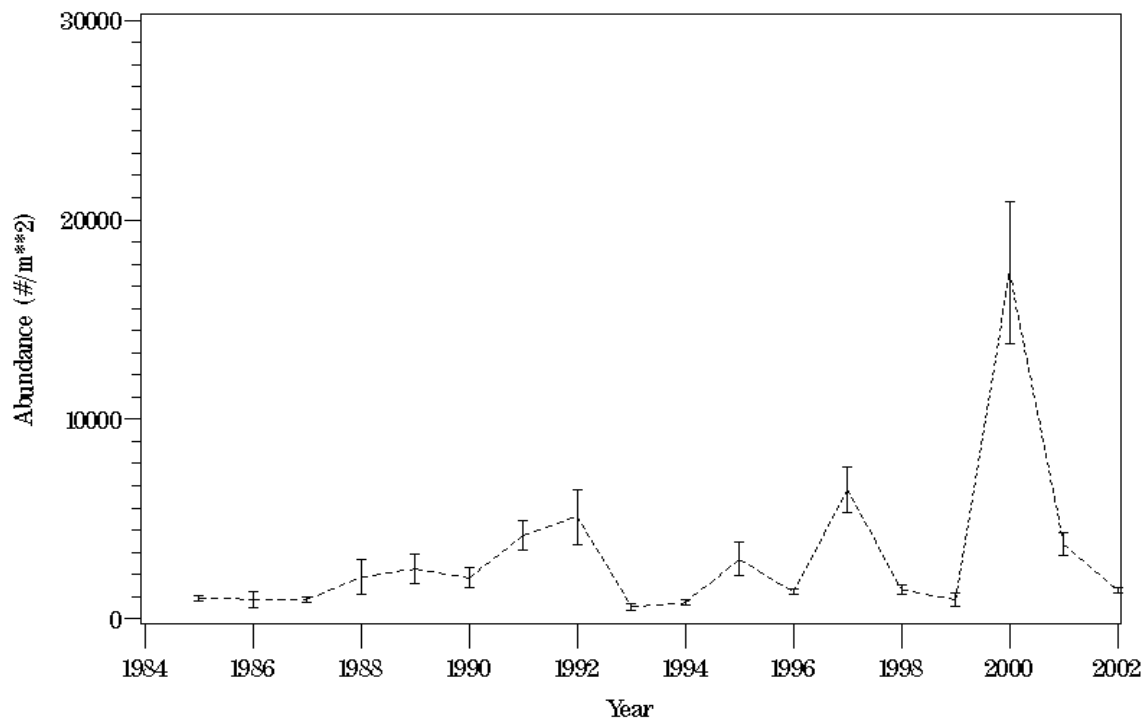


Figure P19. Plot of total benthic community abundance at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

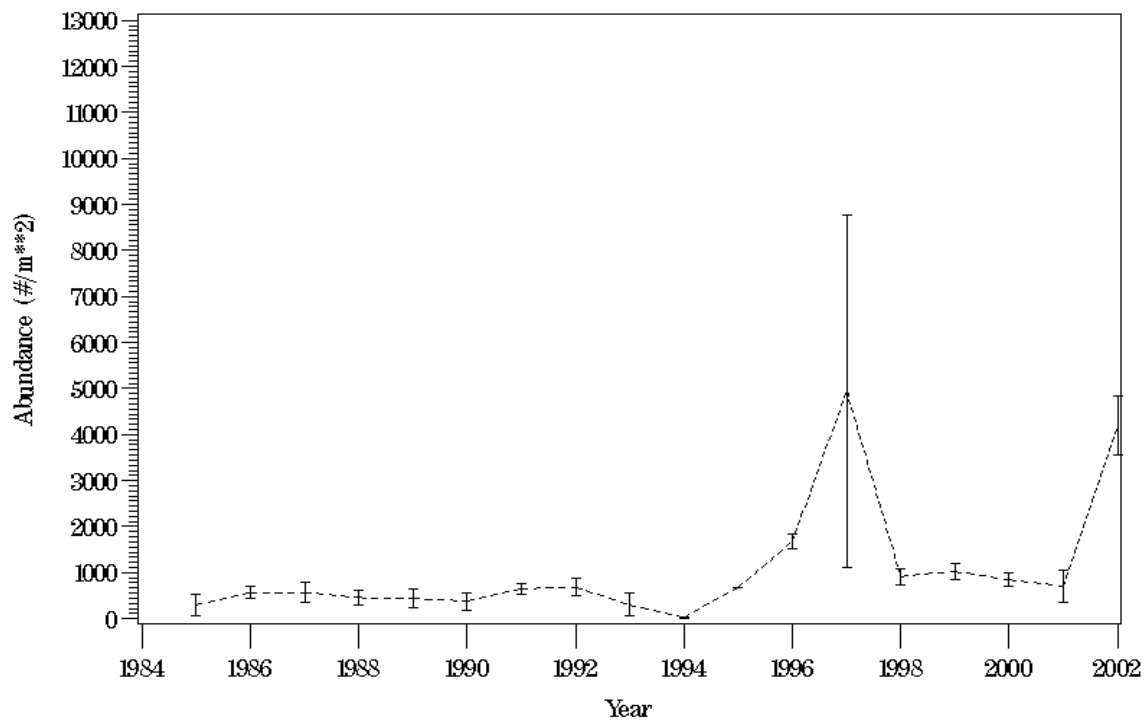


Figure P20. Plot of total benthic community abundance at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

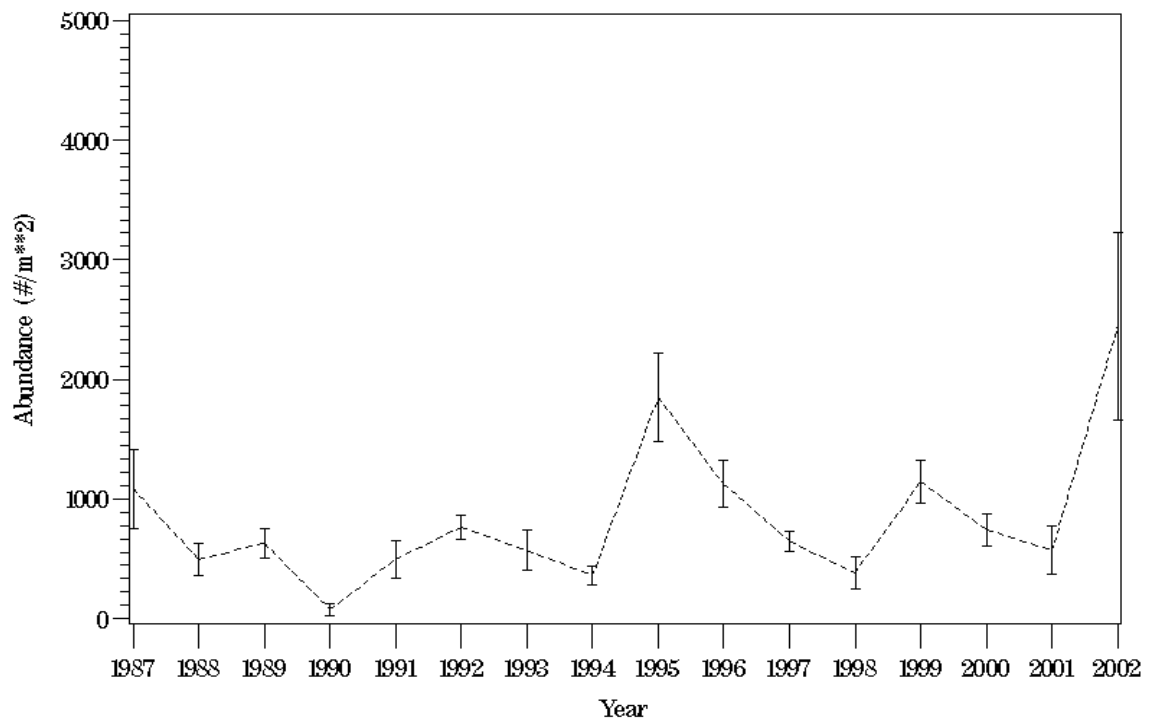


Figure P21. Plot of total benthic community abundance at station LE3.4 for 1985 through 2002.

CB8.1 (1-CB)

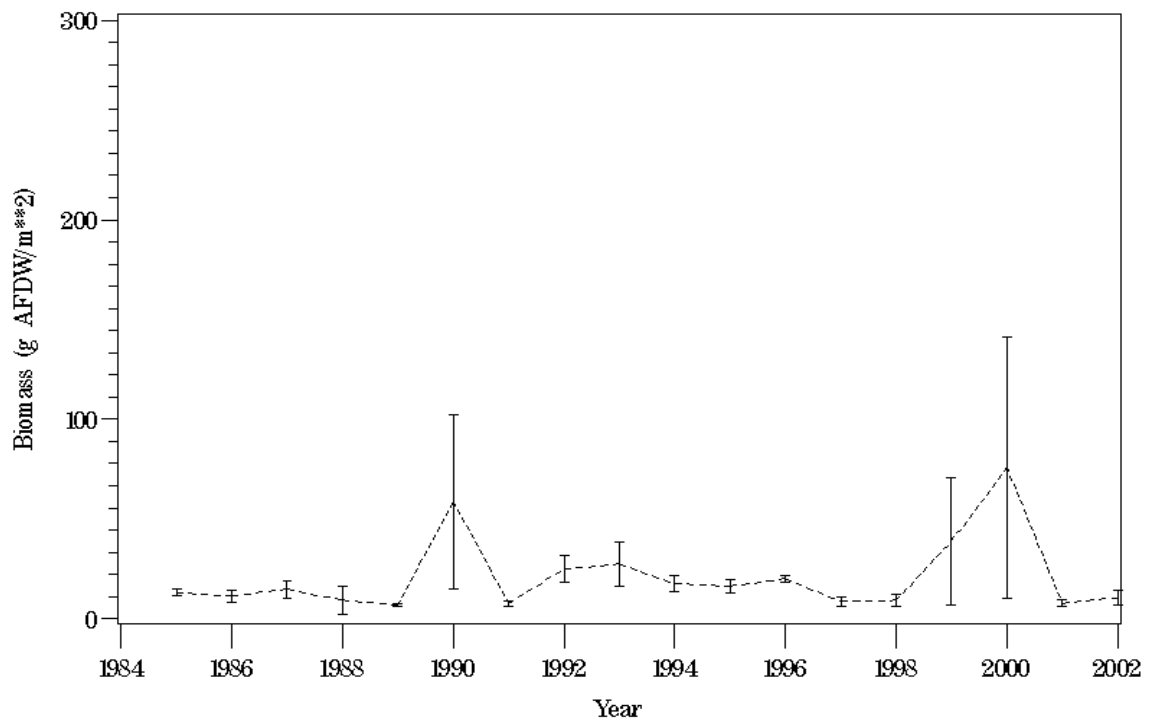


Figure P22. Plot of total benthic community biomass at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

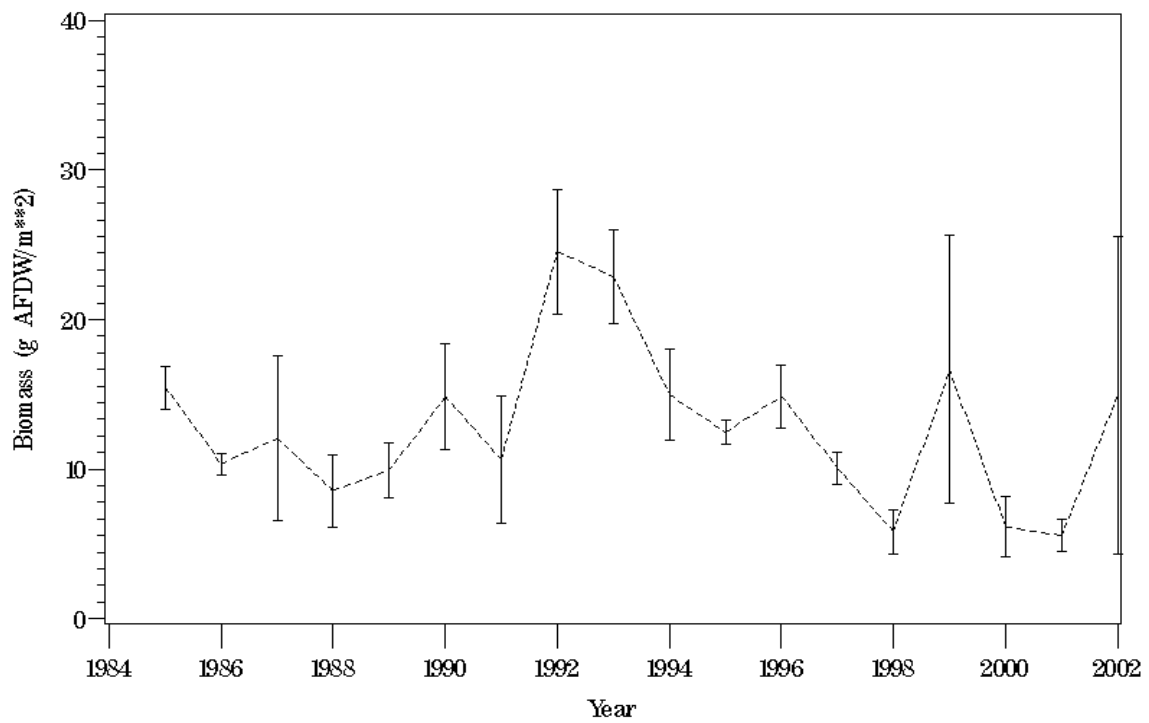


Figure P23. Plot of total benthic community biomass at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

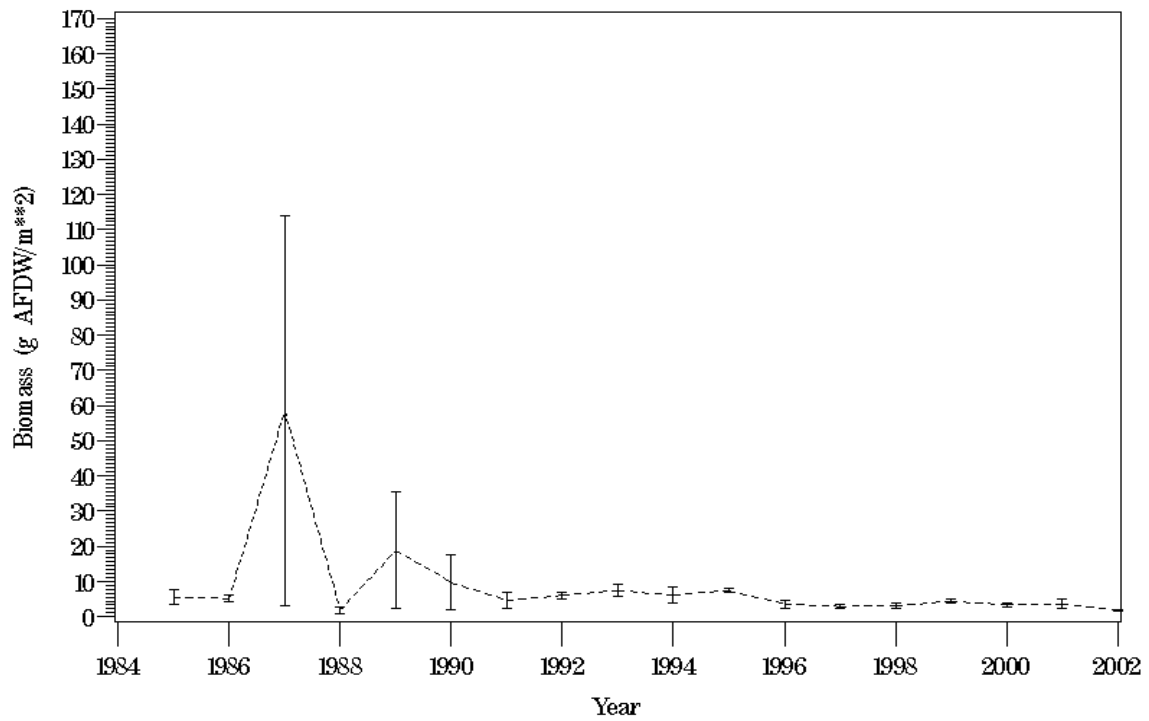


Figure P24. Plot of total benthic community biomass at station CB6.4 for 1985 through 2002.

CB6.1 (4-CB)

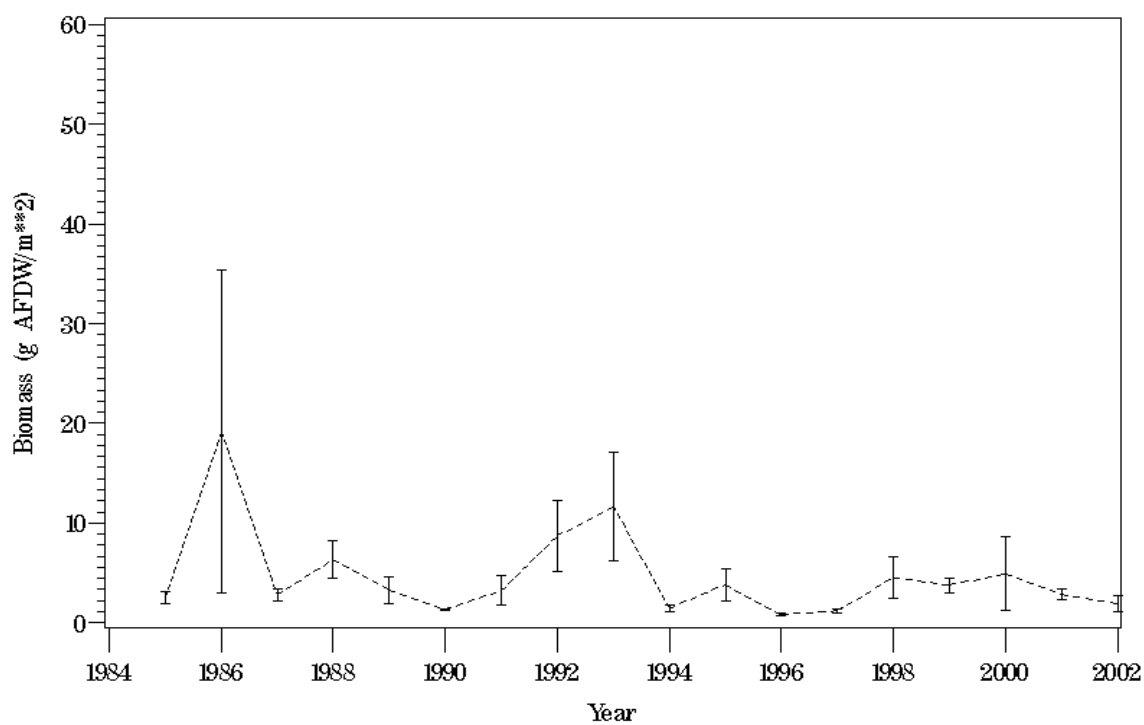


Figure P25. Plot of total benthic community biomass at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

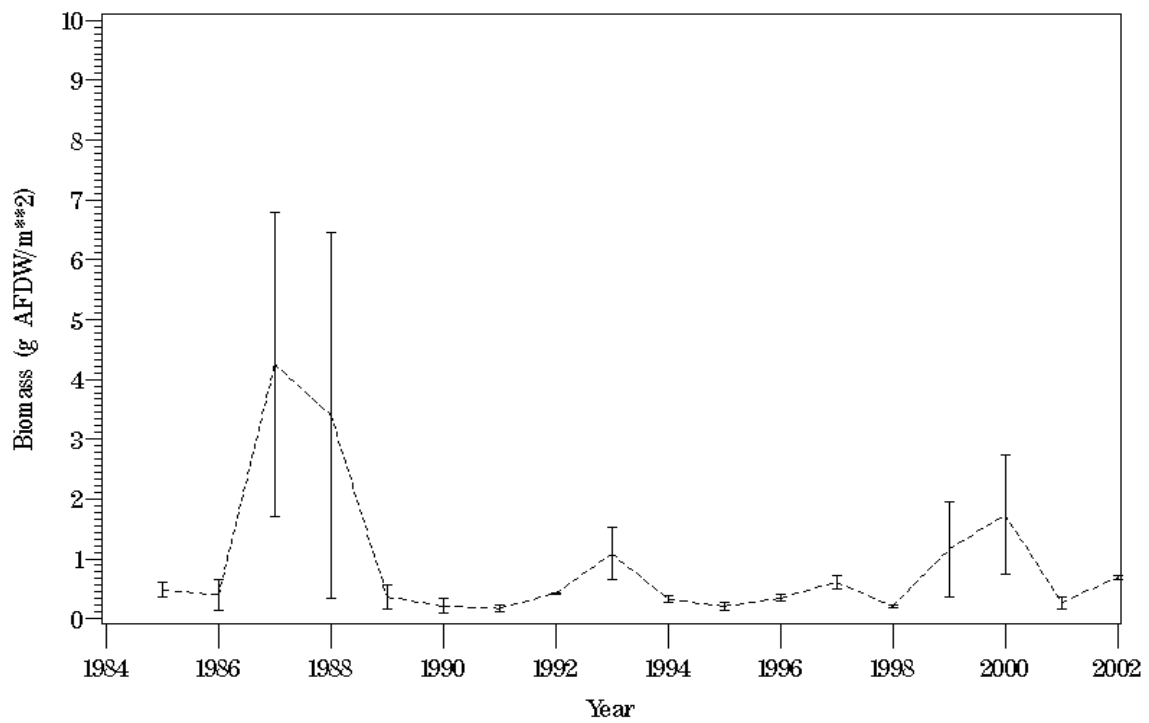


Figure P26. Plot of total benthic community biomass at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

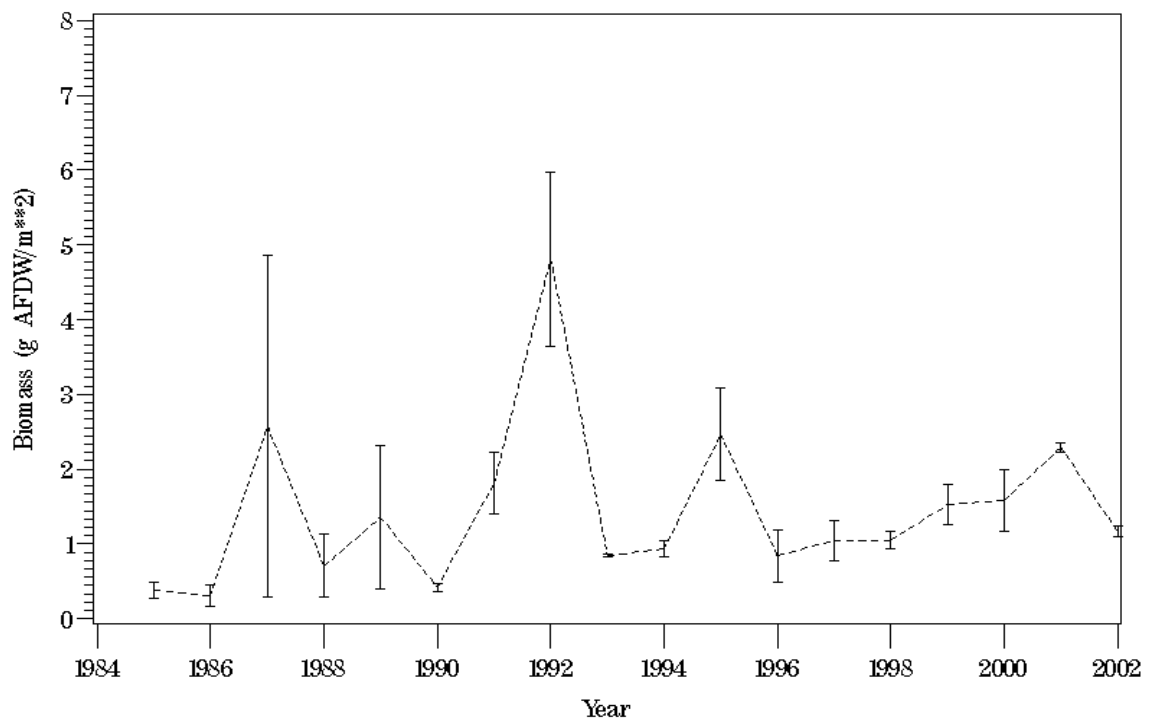


Figure P27. Plot of total benthic community biomass at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

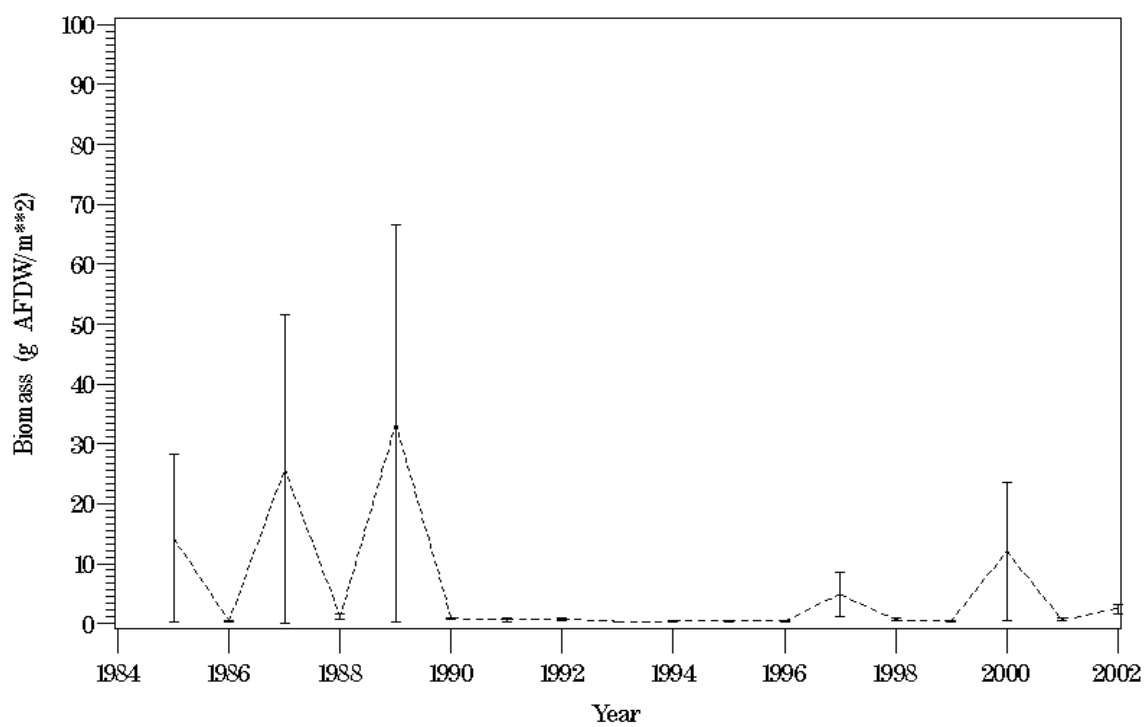


Figure P28. Plot of total benthic community biomass at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

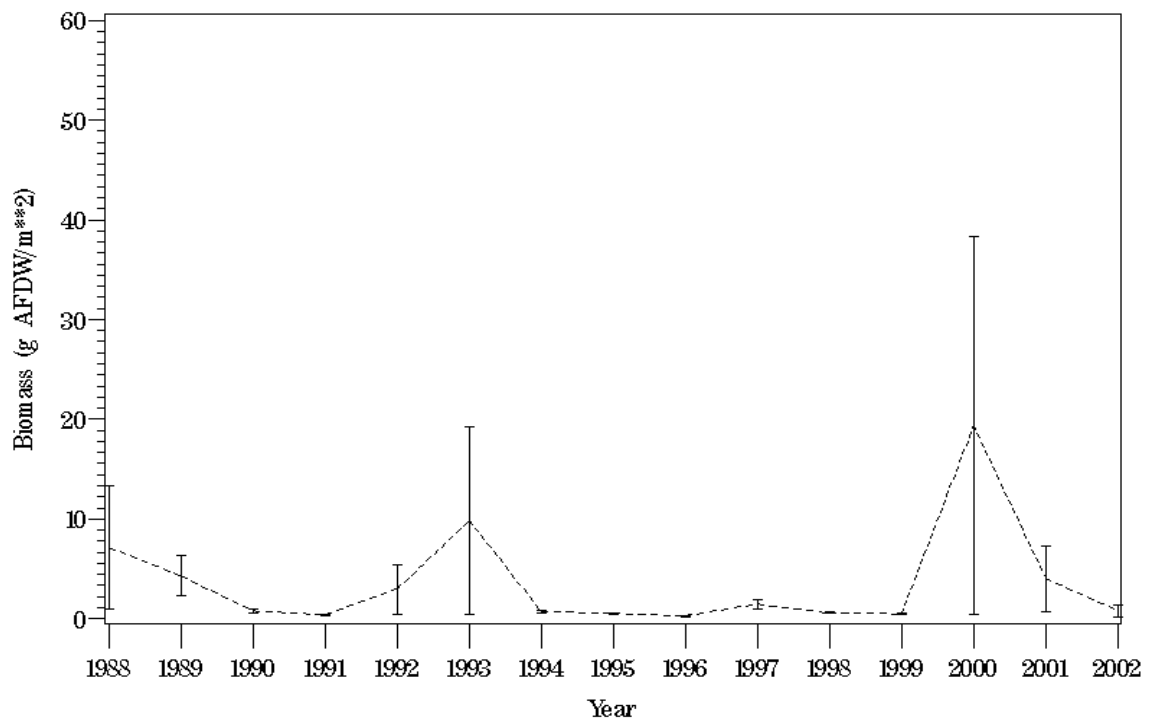


Figure P29. Plot of total benthic community biomass at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

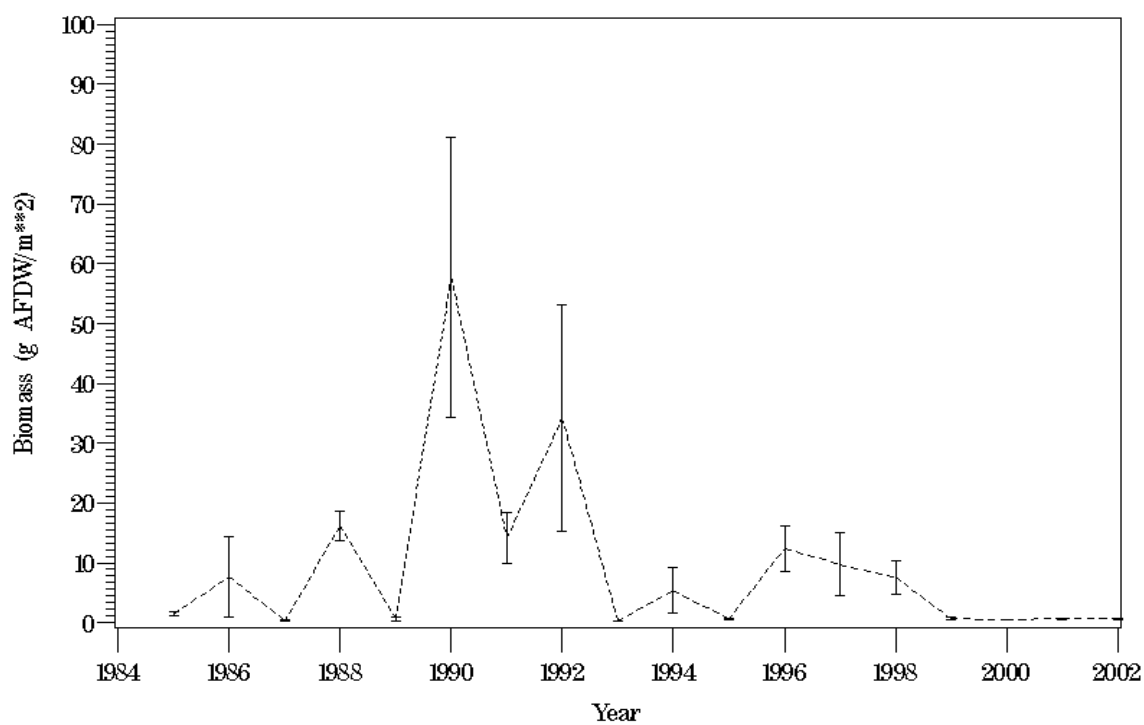


Figure P30. Plot of total benthic community biomass at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

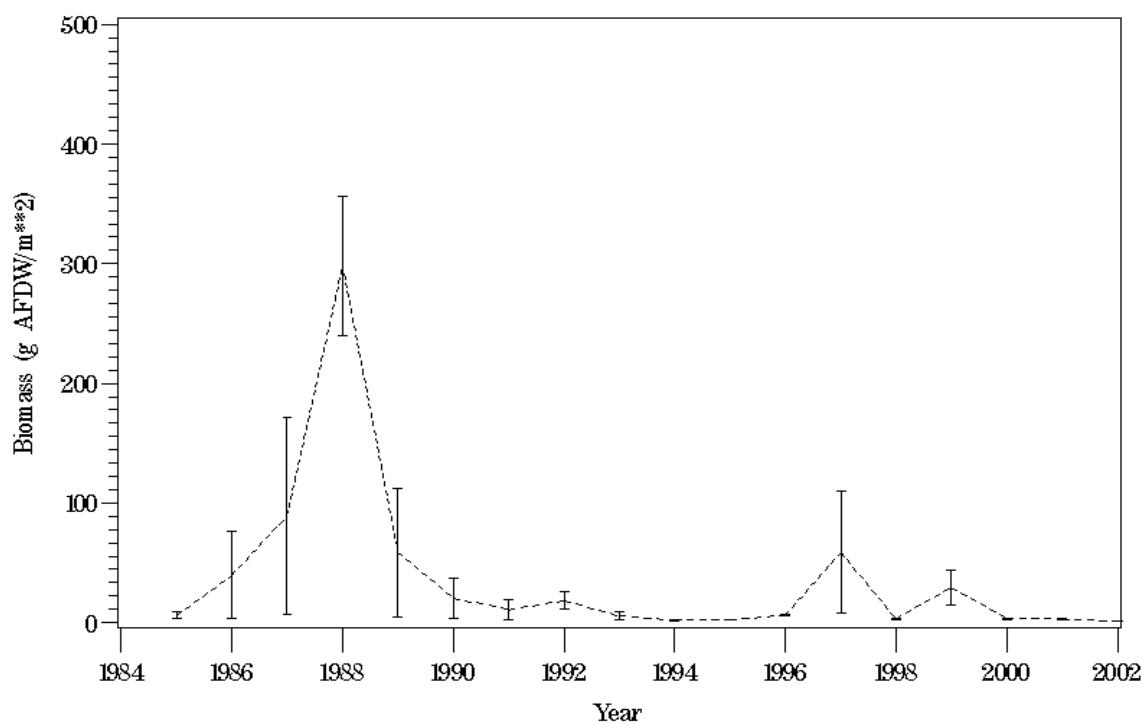


Figure P31. Plot of total benthic community biomass at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

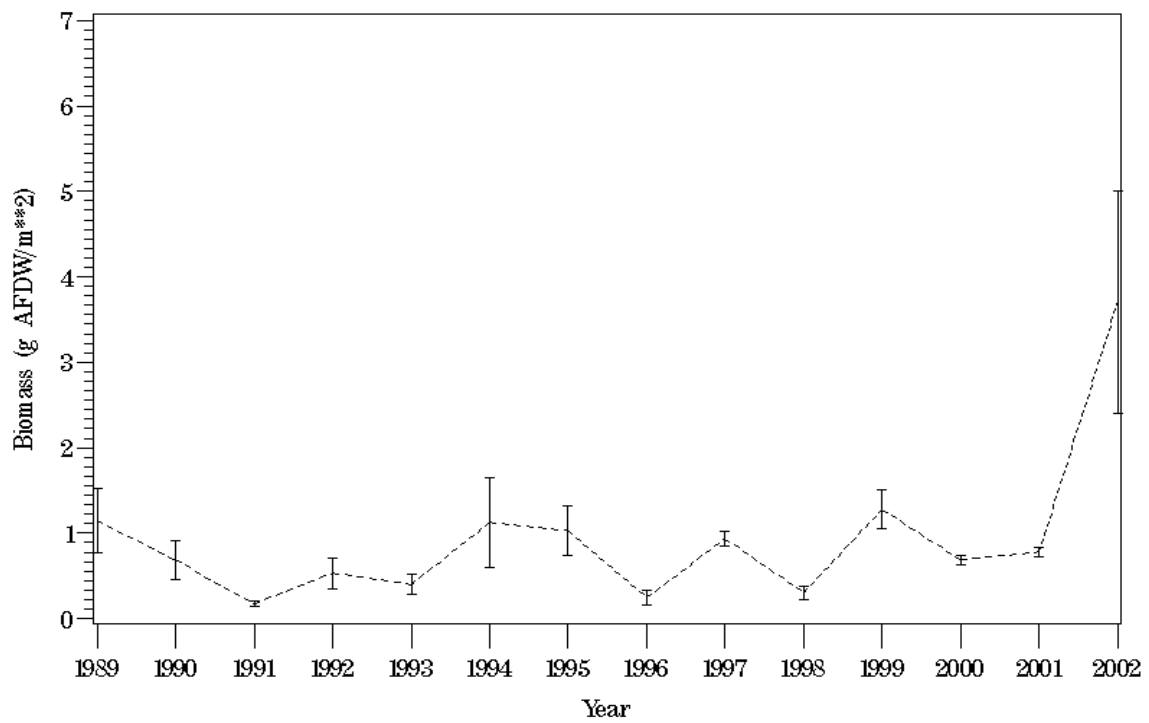


Figure P32. Plot of total benthic community biomass at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

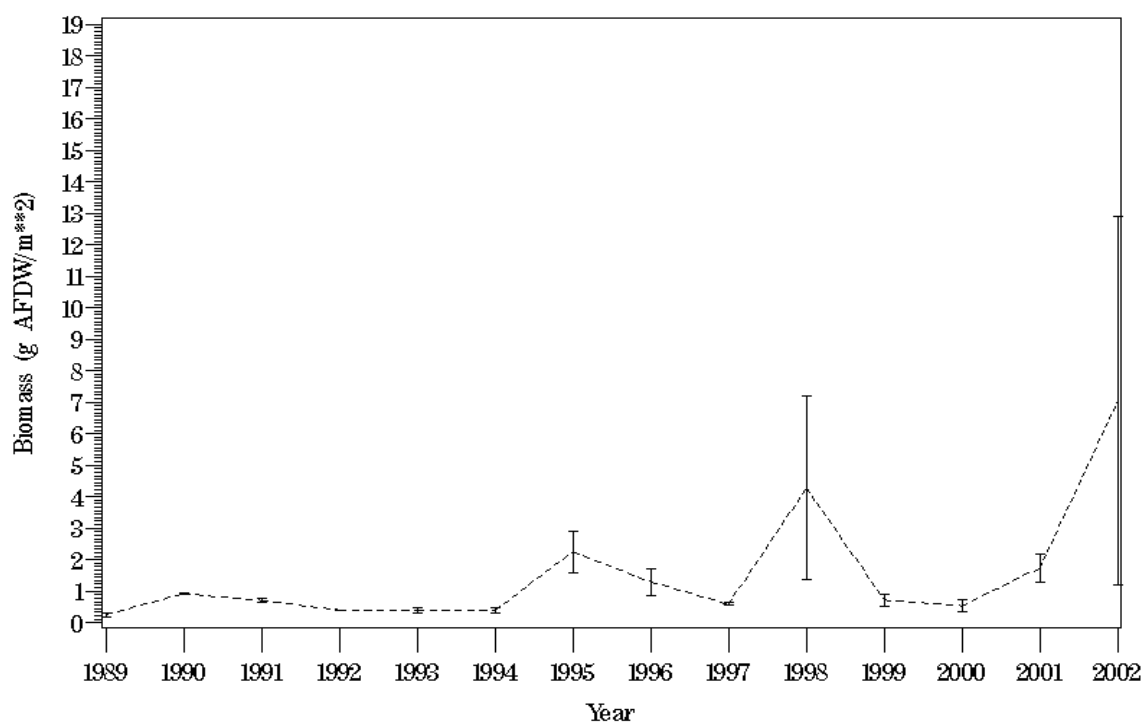


Figure P33. Plot of total benthic community biomass at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

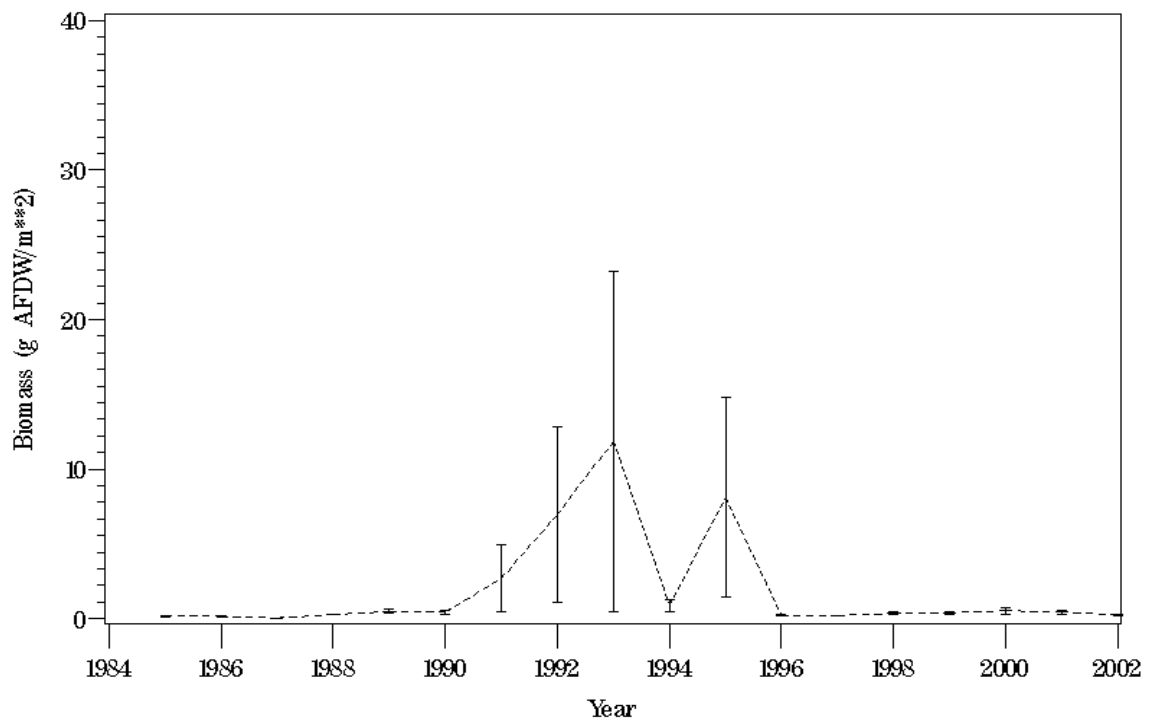


Figure P34. Plot of total benthic community biomass at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

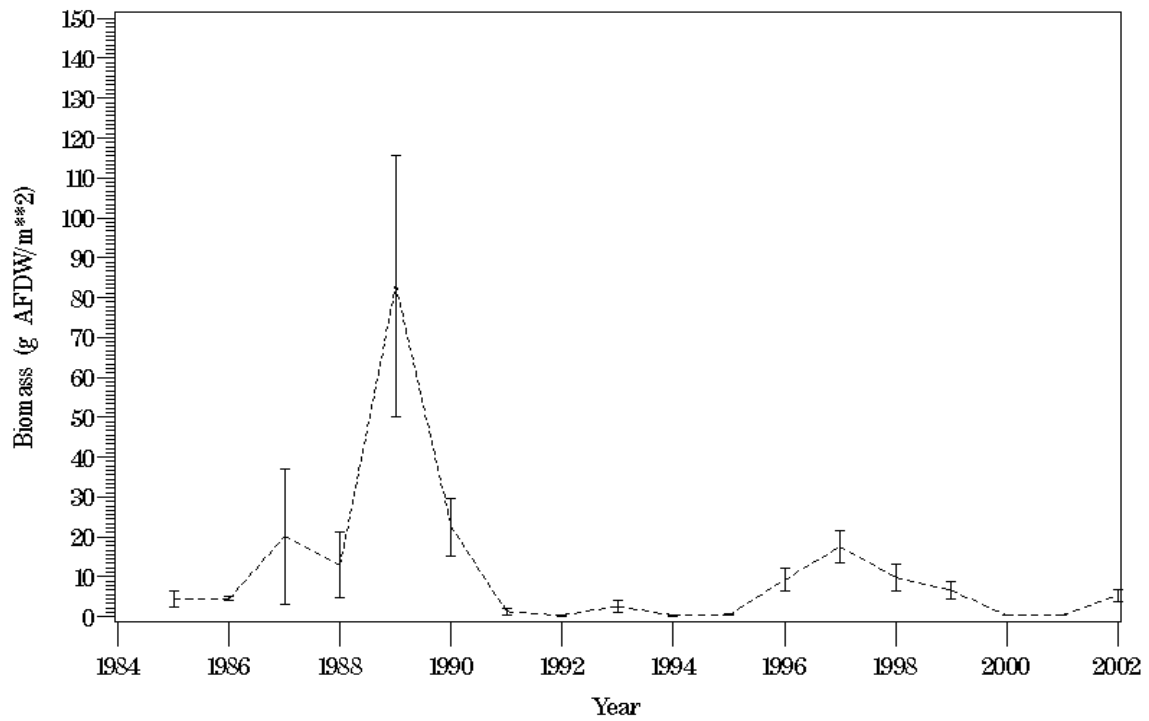


Figure P35. Plot of total benthic community biomass at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

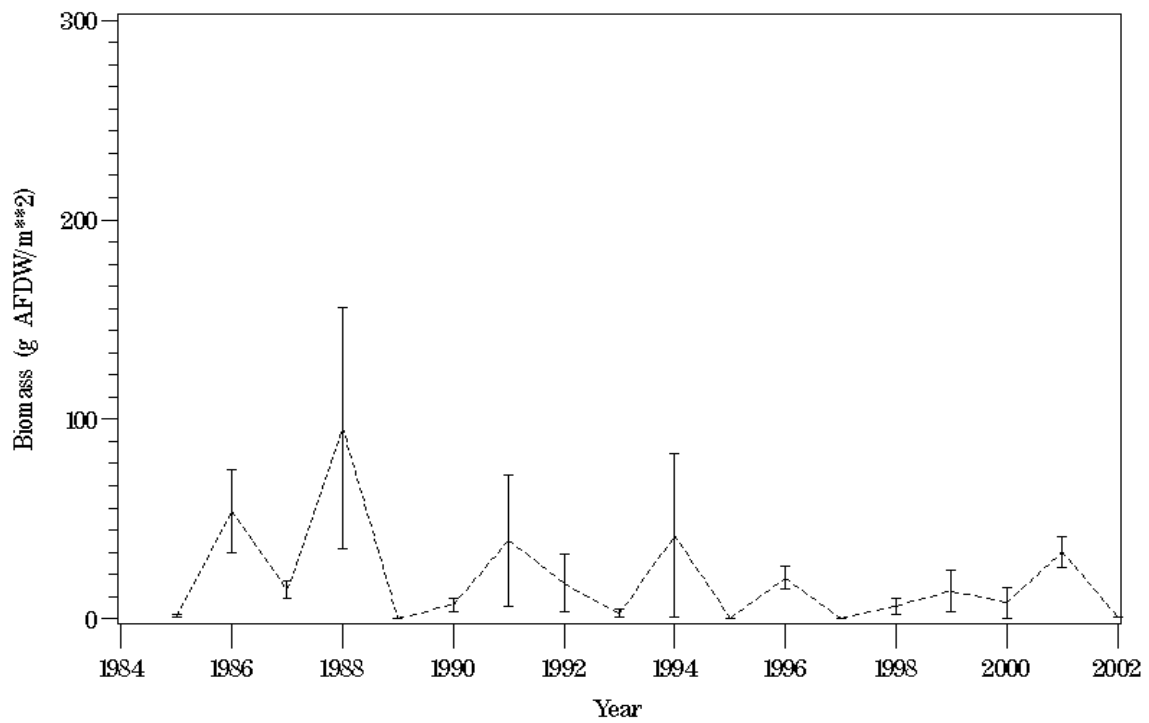


Figure P36. Plot of total benthic community biomass at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

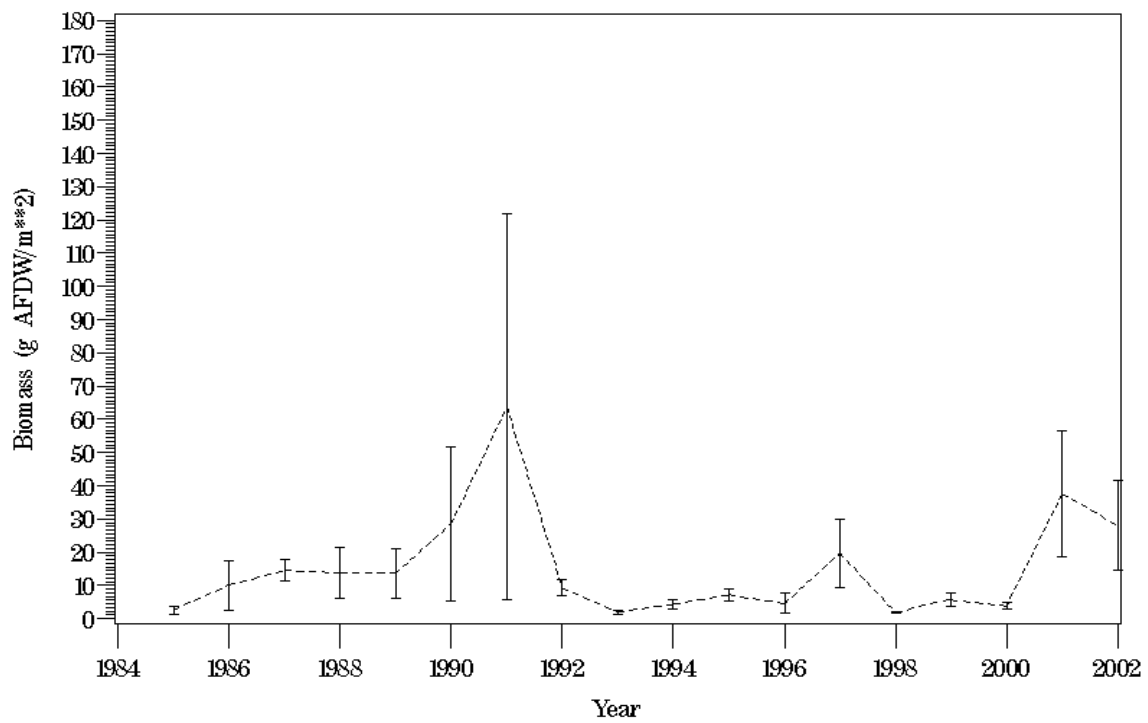


Figure P37. Plot of total benthic community biomass at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

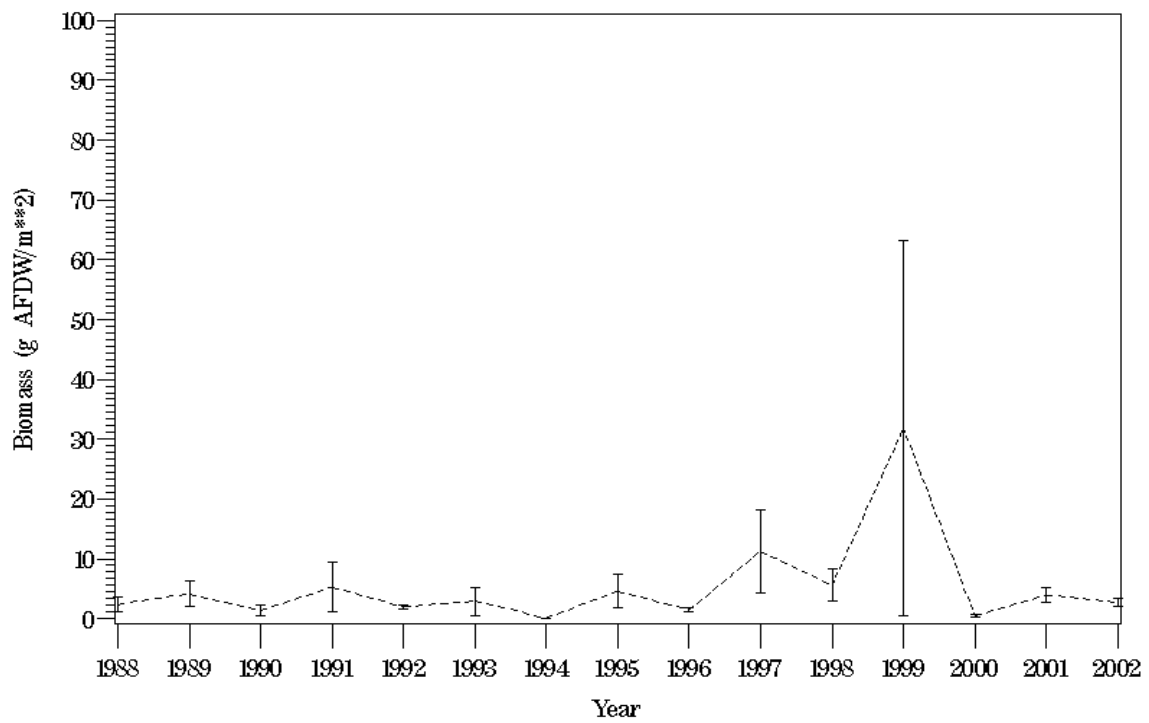


Figure P38. Plot of total benthic community biomass at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

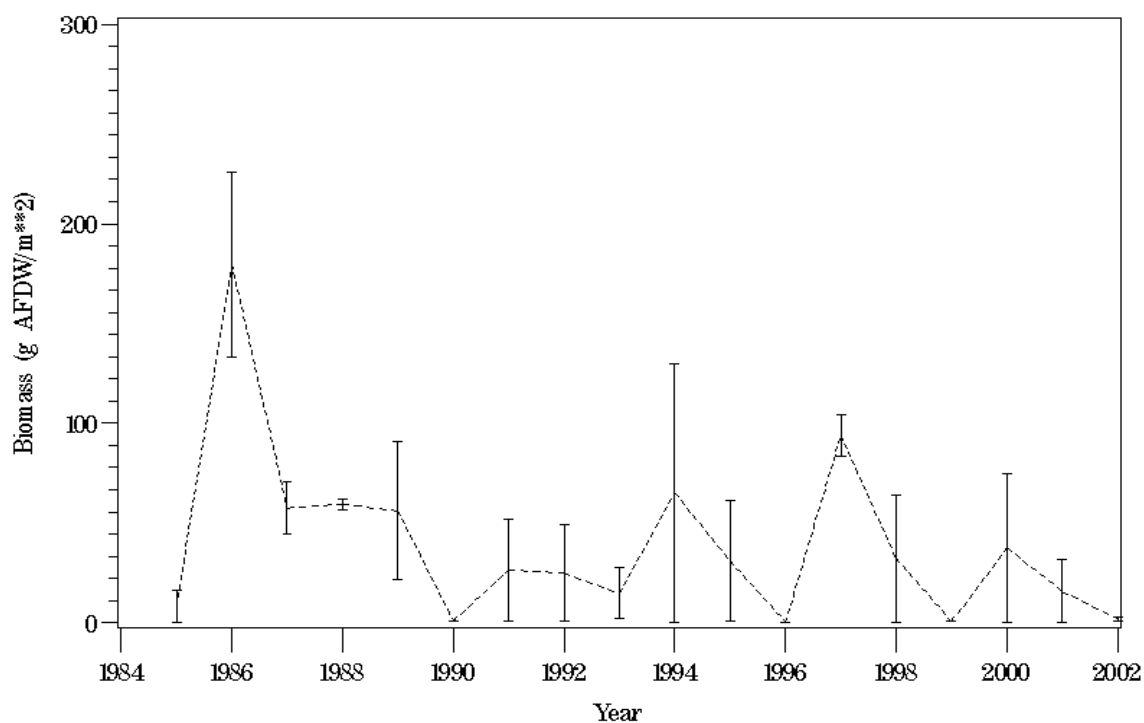


Figure P39. Plot of total benthic community biomass at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

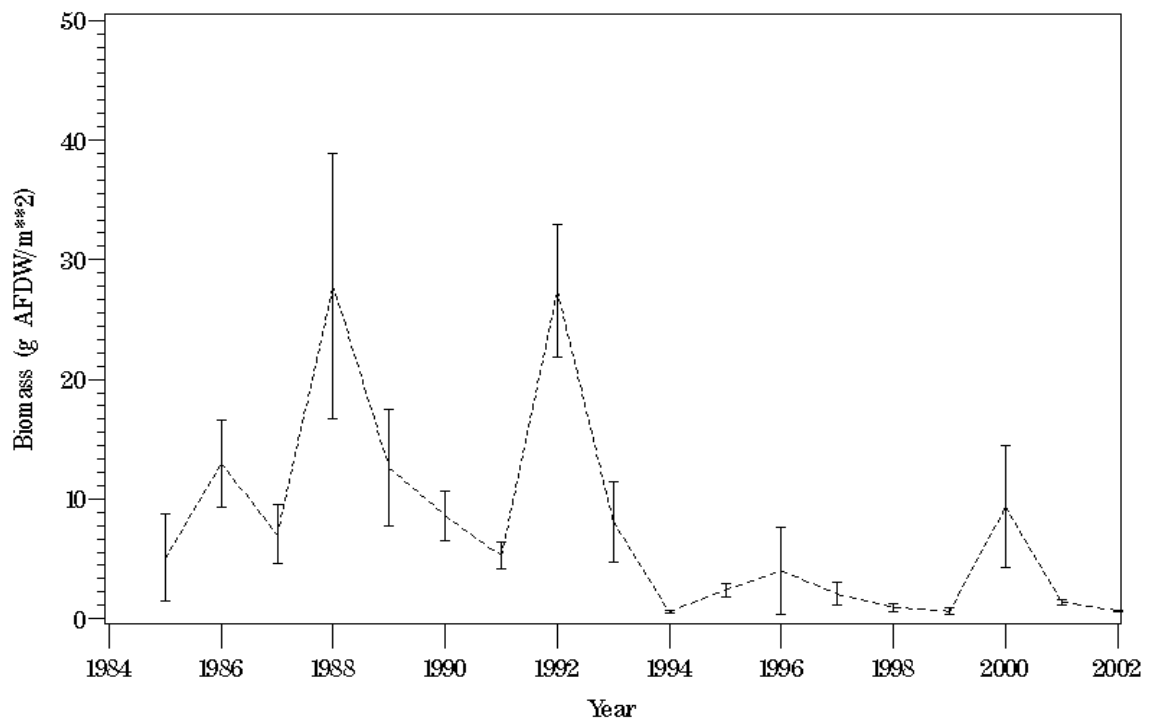


Figure P40. Plot of total benthic community biomass at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

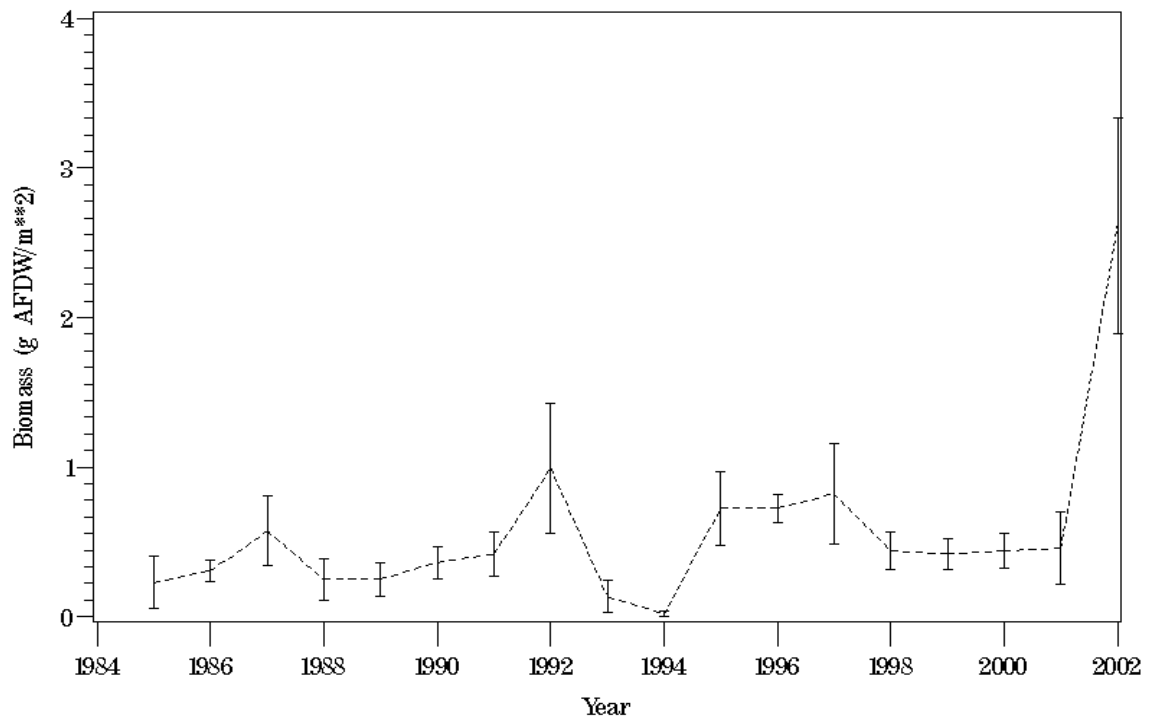


Figure P41. Plot of total benthic community biomass at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

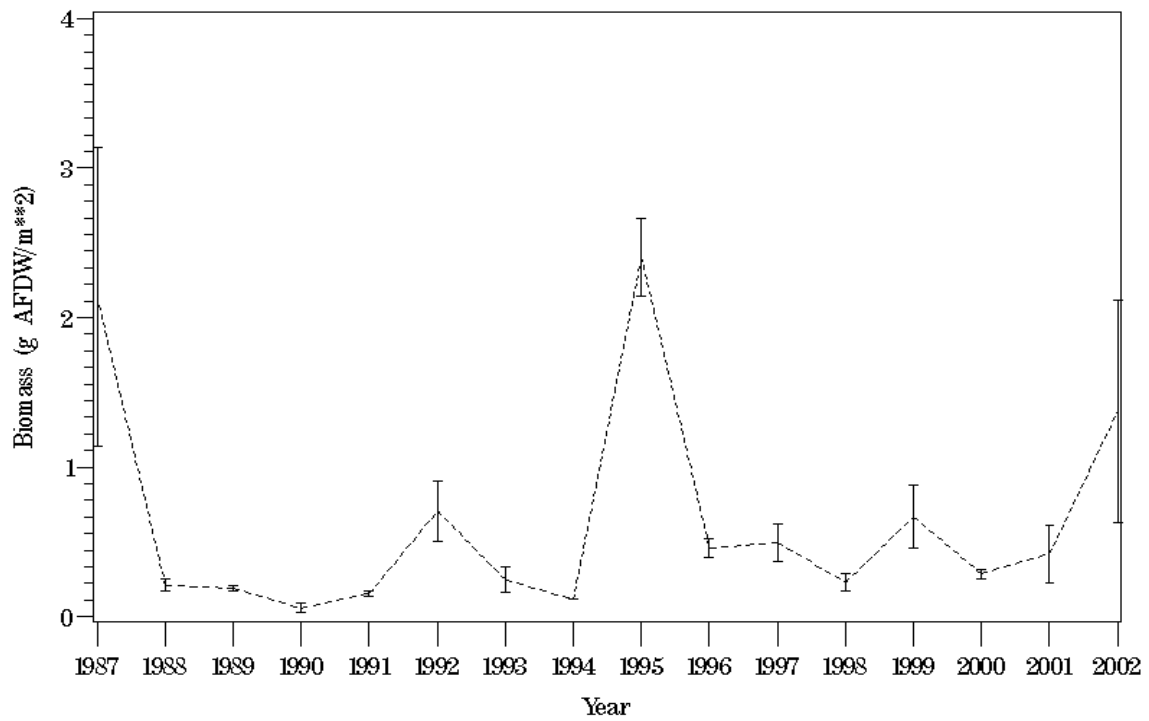


Figure P42. Plot of total benthic community biomass at station LE3.4 for 1985 through 2002.

CB8.1 (1—CB)

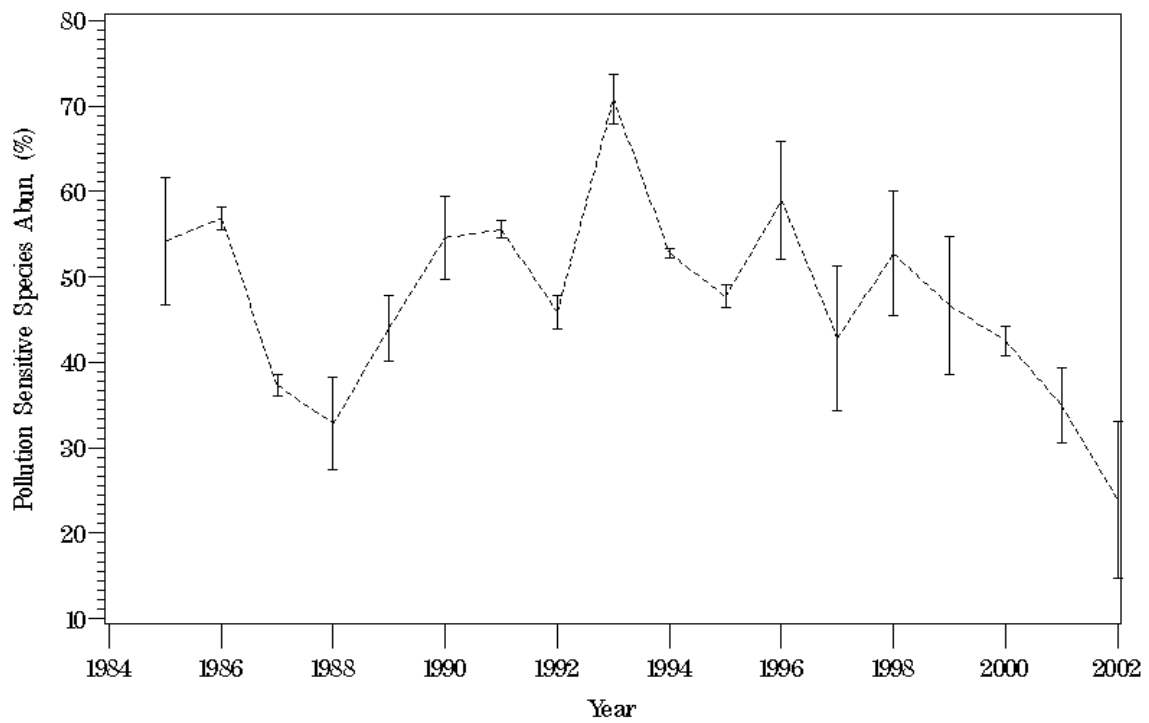


Figure P43. Plot of pollution sensitive species abundance at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

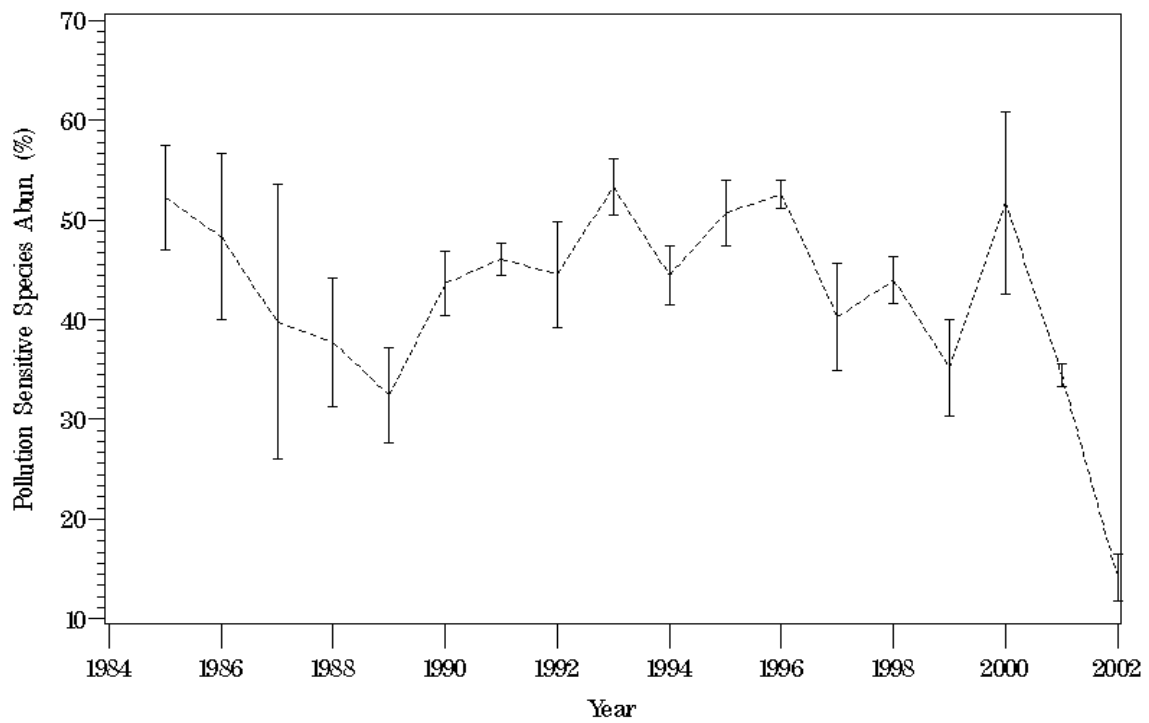


Figure P44. Plot of pollution sensitive species abundance at station CB7.3E for 1985 through 2002.

CB6.4 (3—CB)

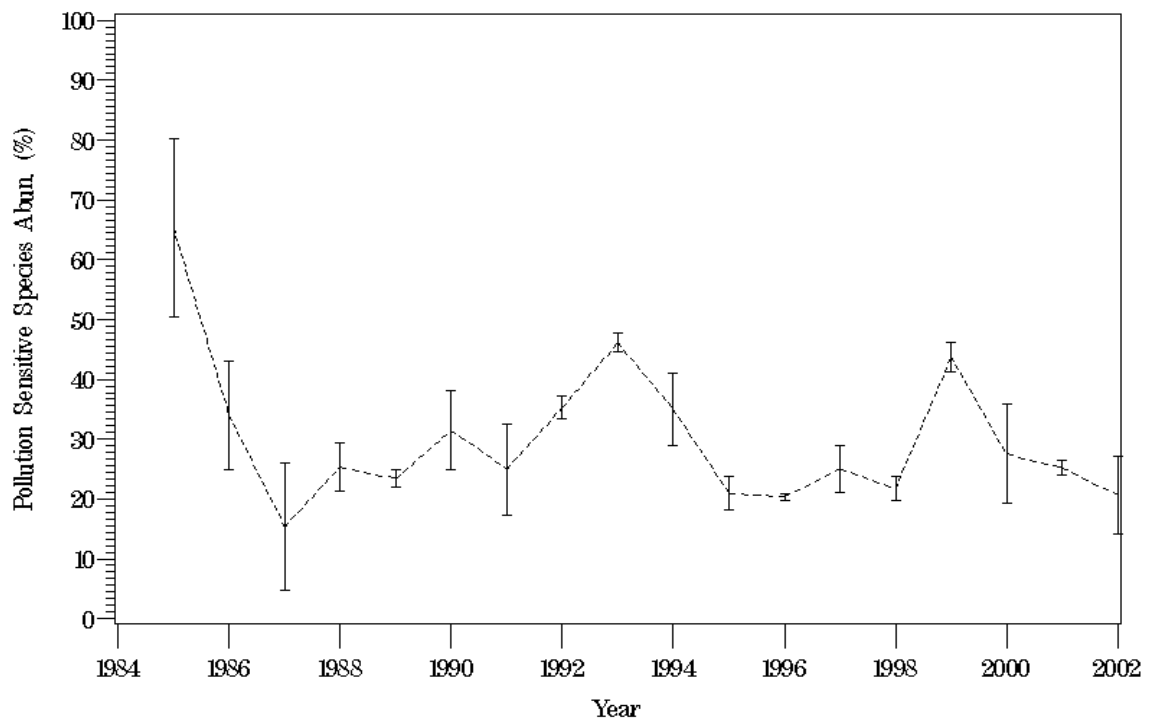


Figure P45. Plot of pollution sensitive species abundance at station CB6.4 for 1985 through 2002.

CB6.1 (4—CB)

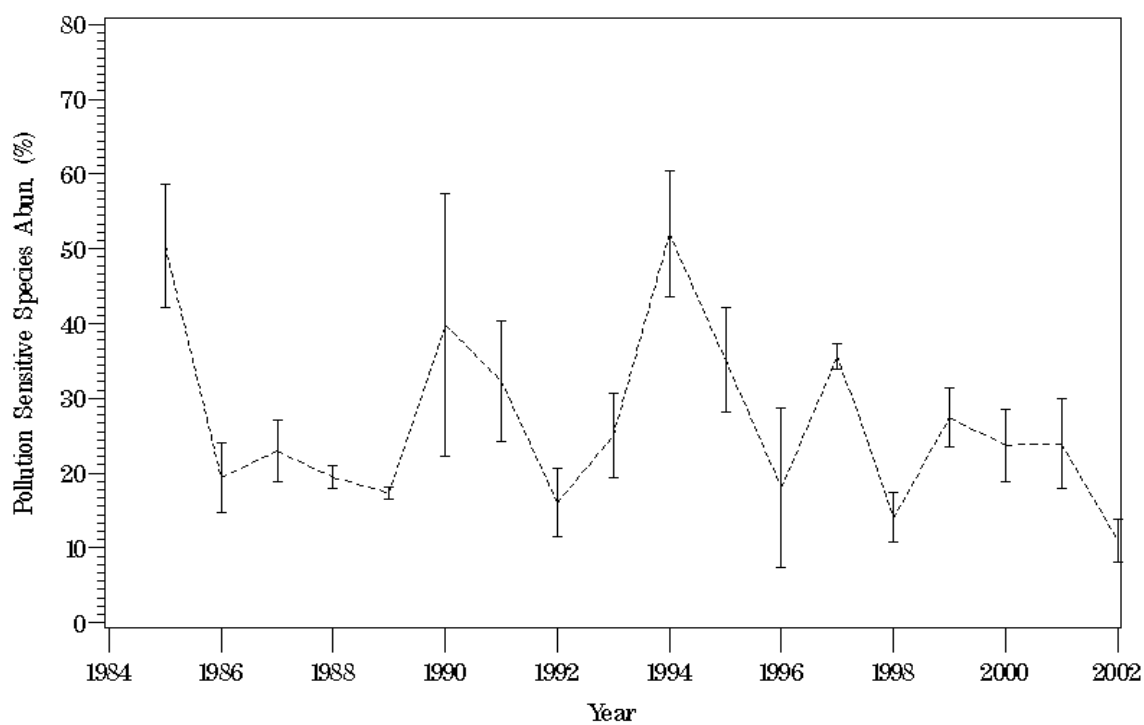


Figure P46. Plot of pollution sensitive species abundance at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

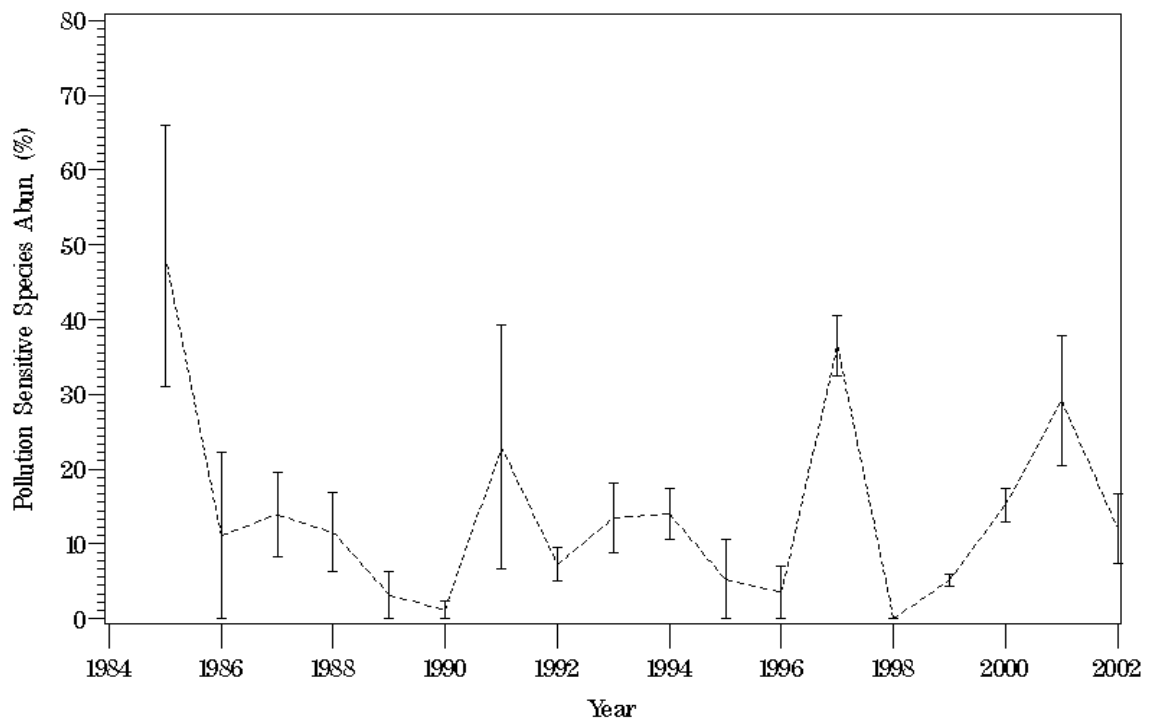


Figure P47. Plot of pollution sensitive species abundance at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

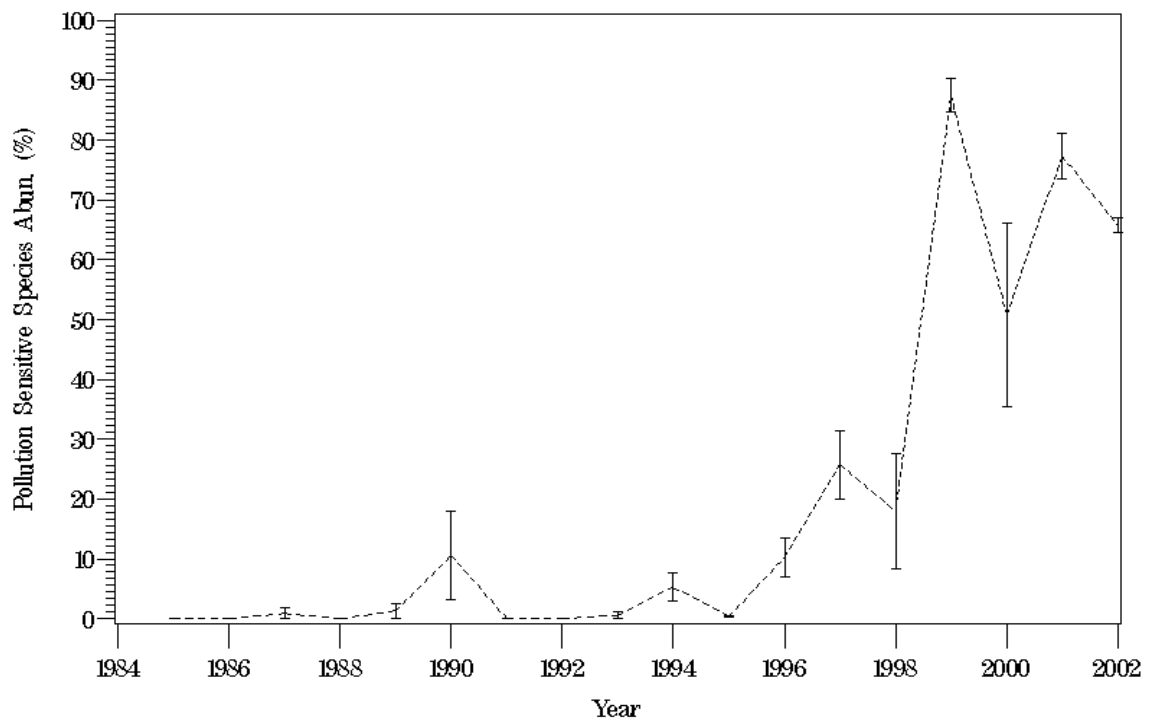


Figure P48. Plot of pollution sensitive species abundance at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

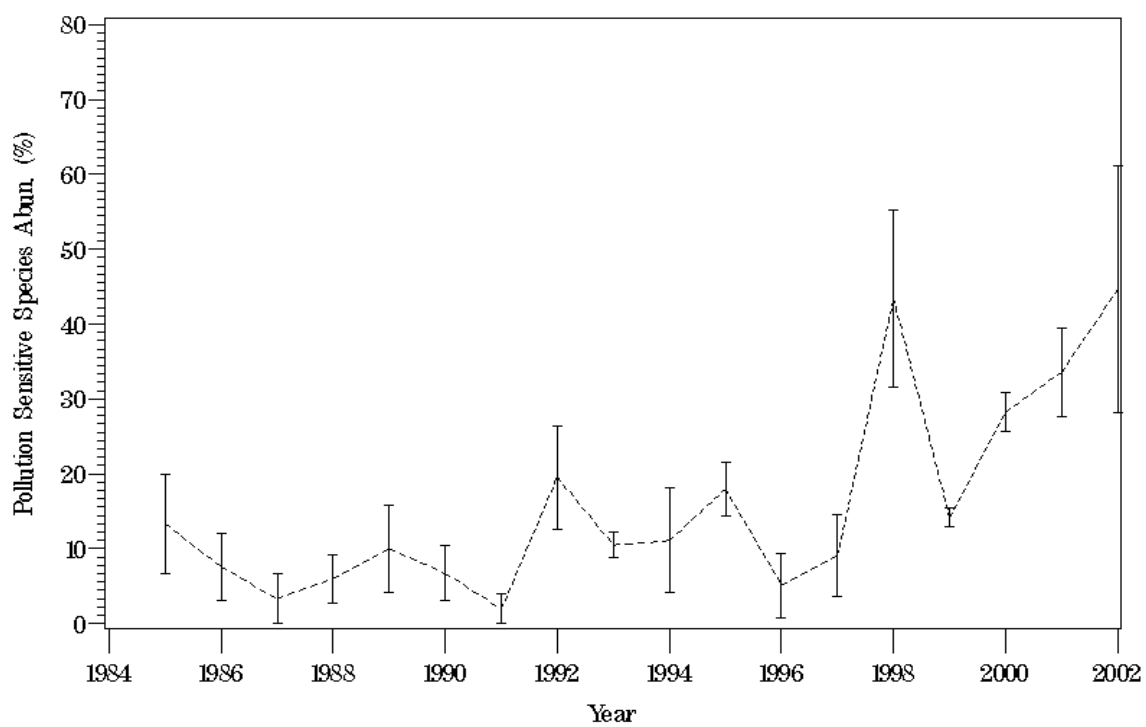


Figure P49. Plot of pollution sensitive species abundance at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

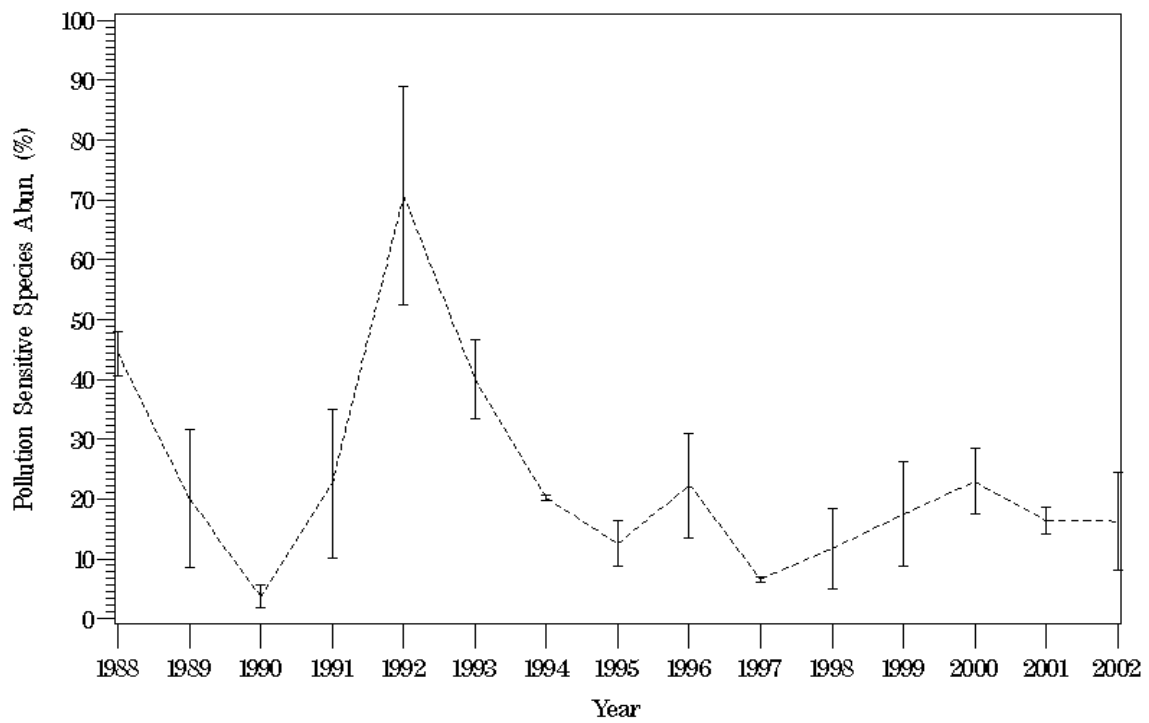


Figure P50. Plot of pollution sensitive species abundance at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

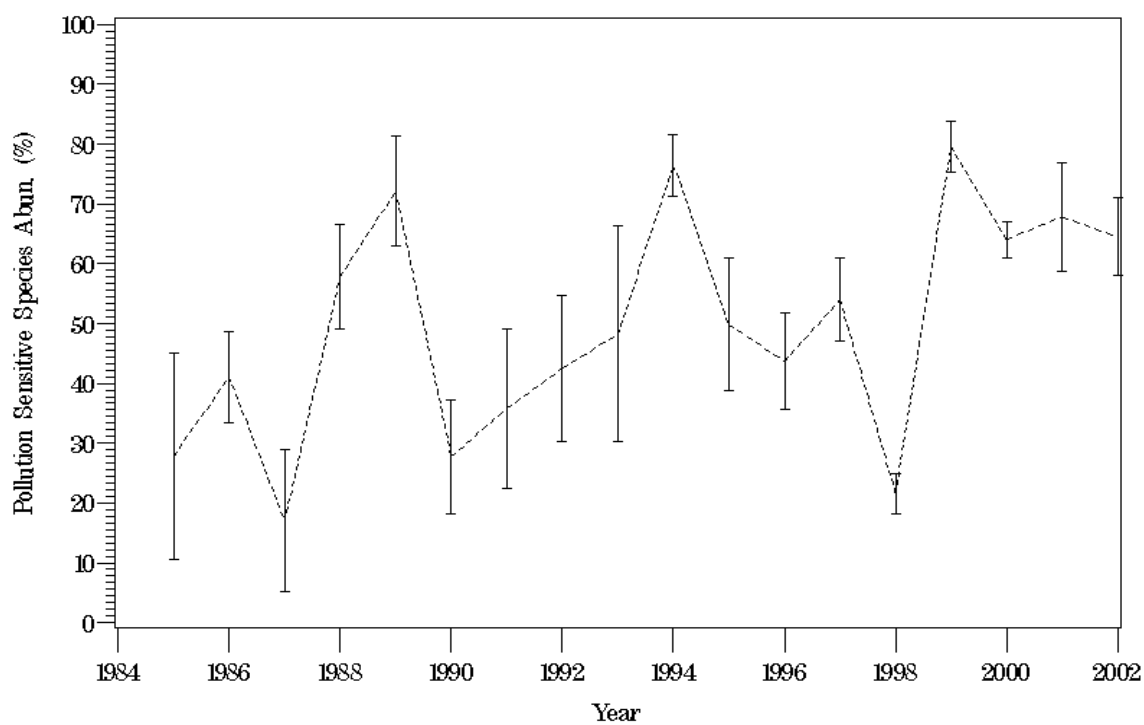


Figure P51. Plot of pollution sensitive species abundance at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

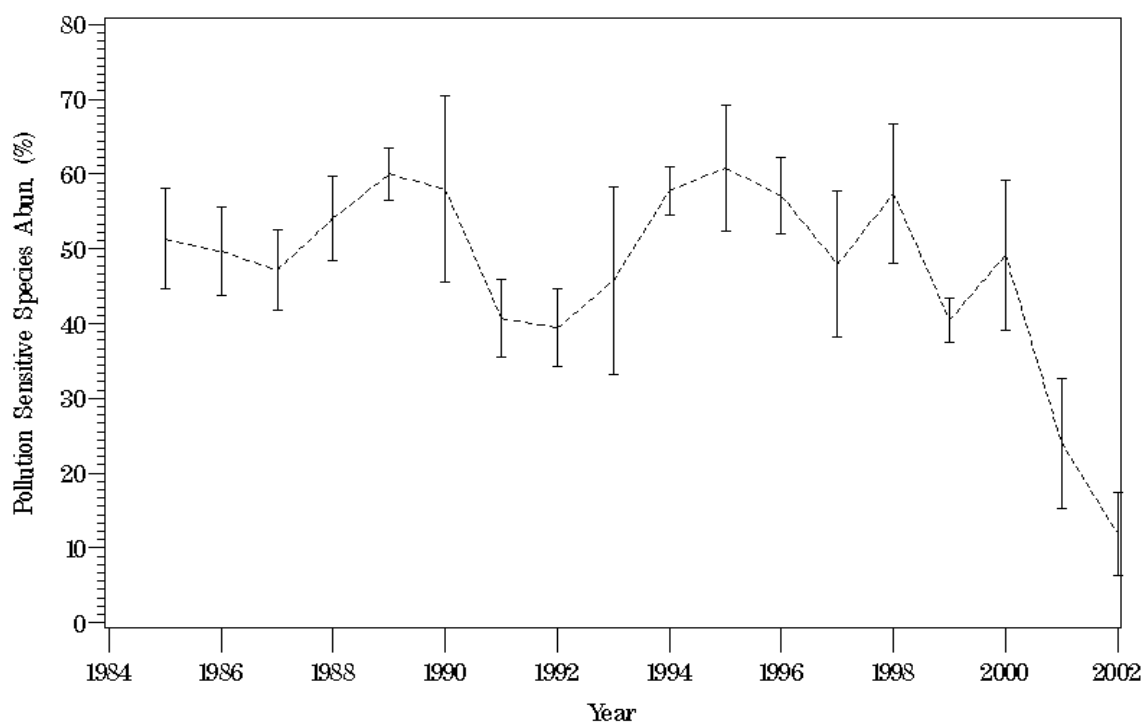


Figure P52. Plot of pollution sensitive species abundance at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

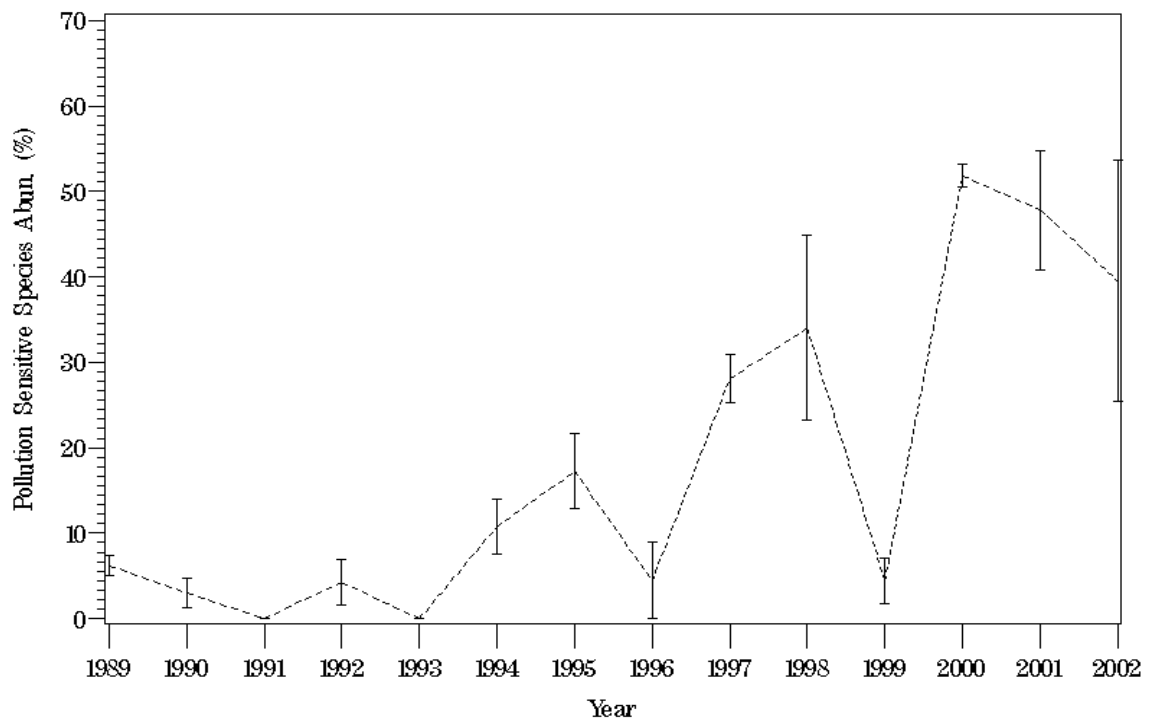


Figure P53. Plot of pollution sensitive species abundance at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

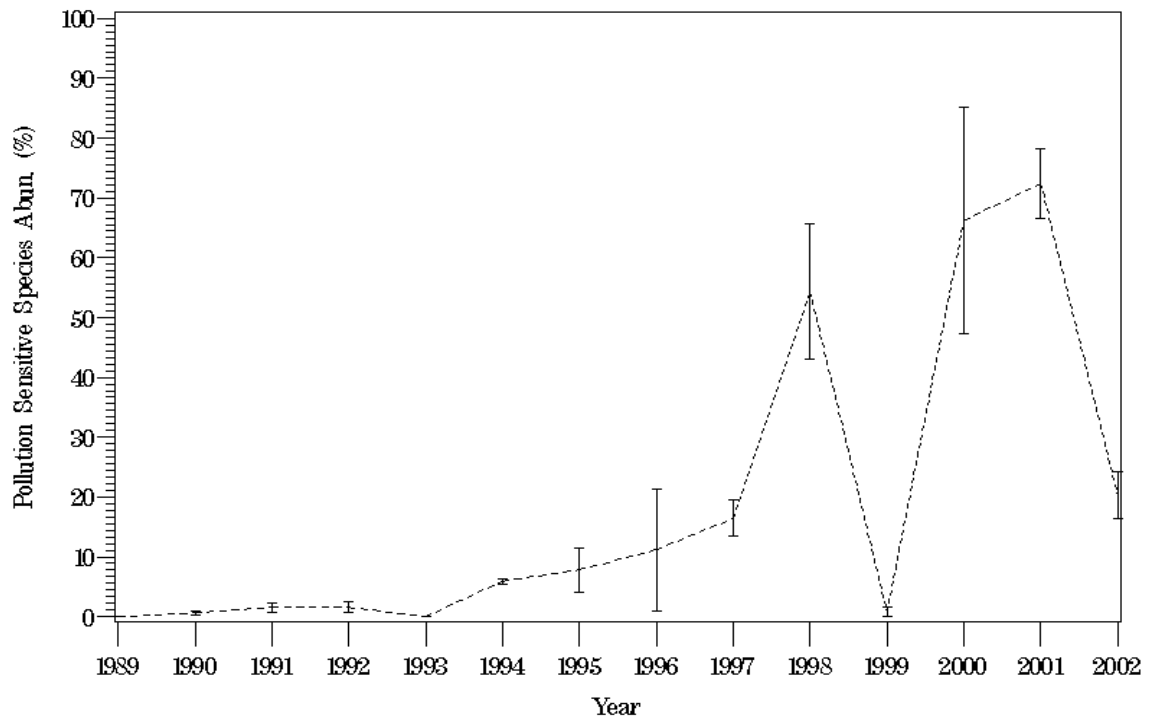


Figure P54. Plot of pollution sensitive species abundance at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

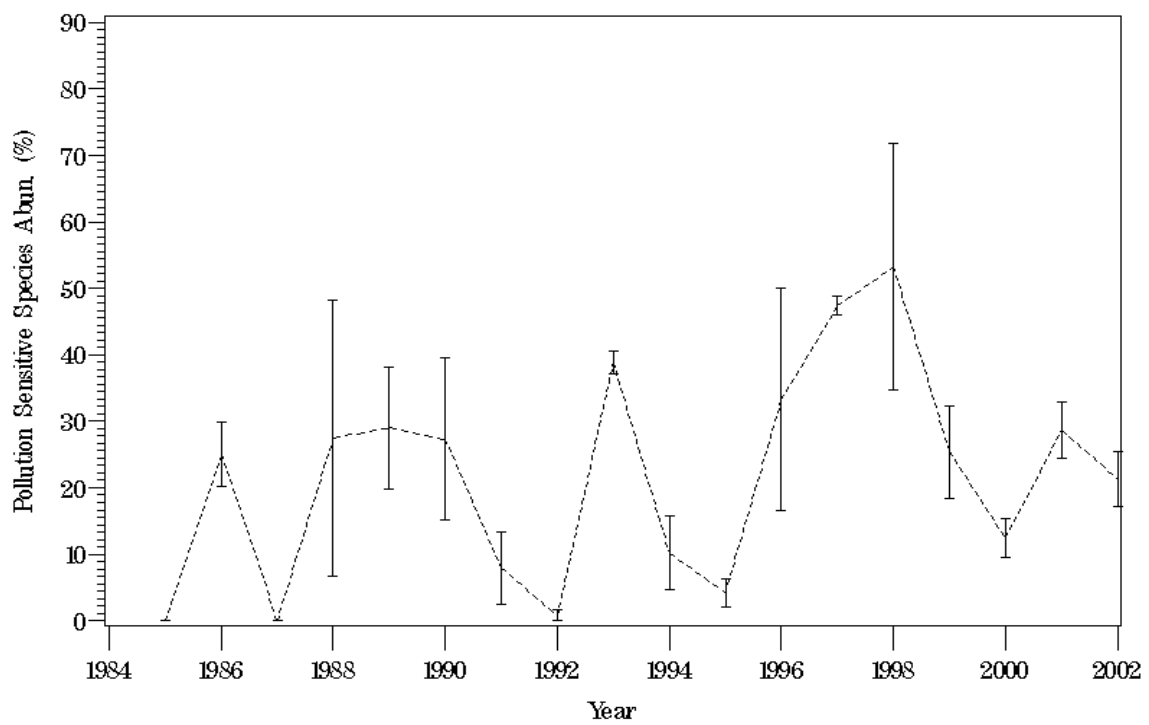


Figure P55. Plot of pollution sensitive species abundance at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

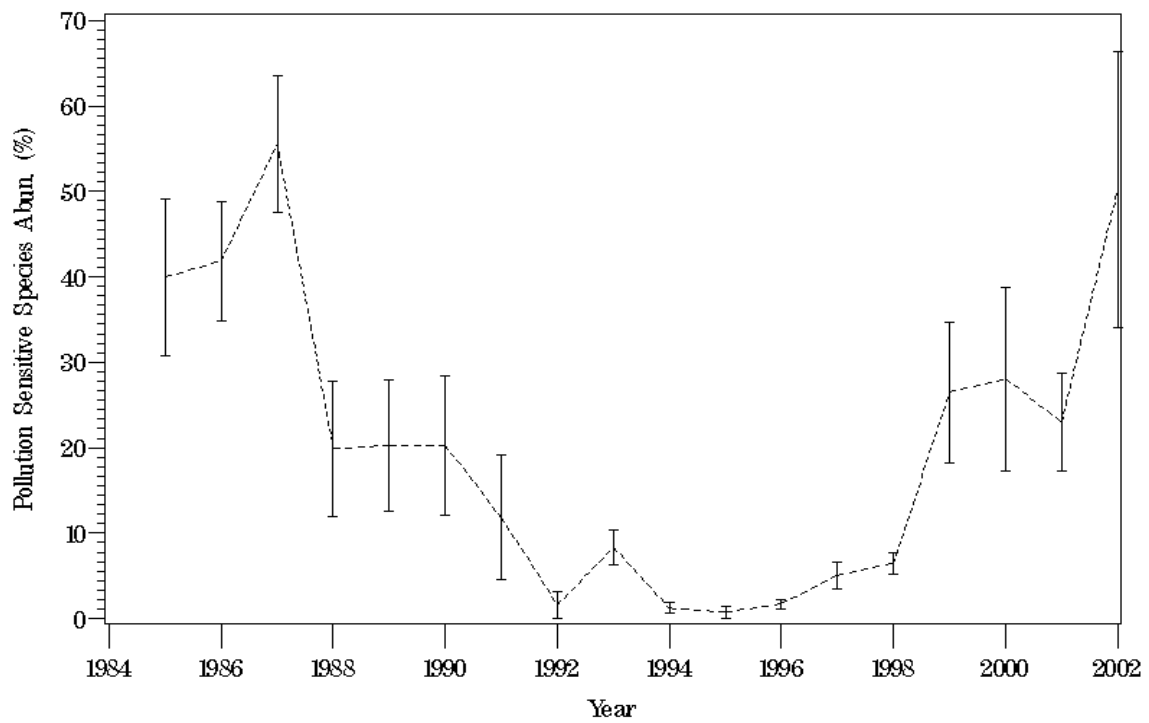


Figure P56. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

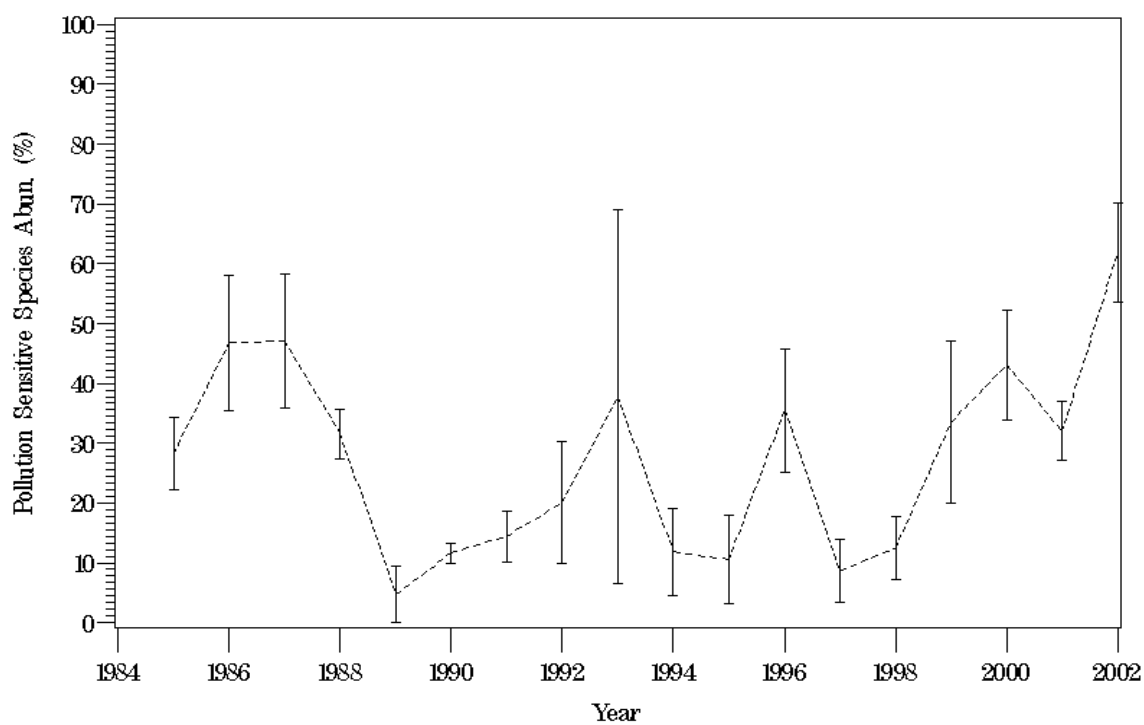


Figure P57. Plot of pollution sensitive species abundance at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

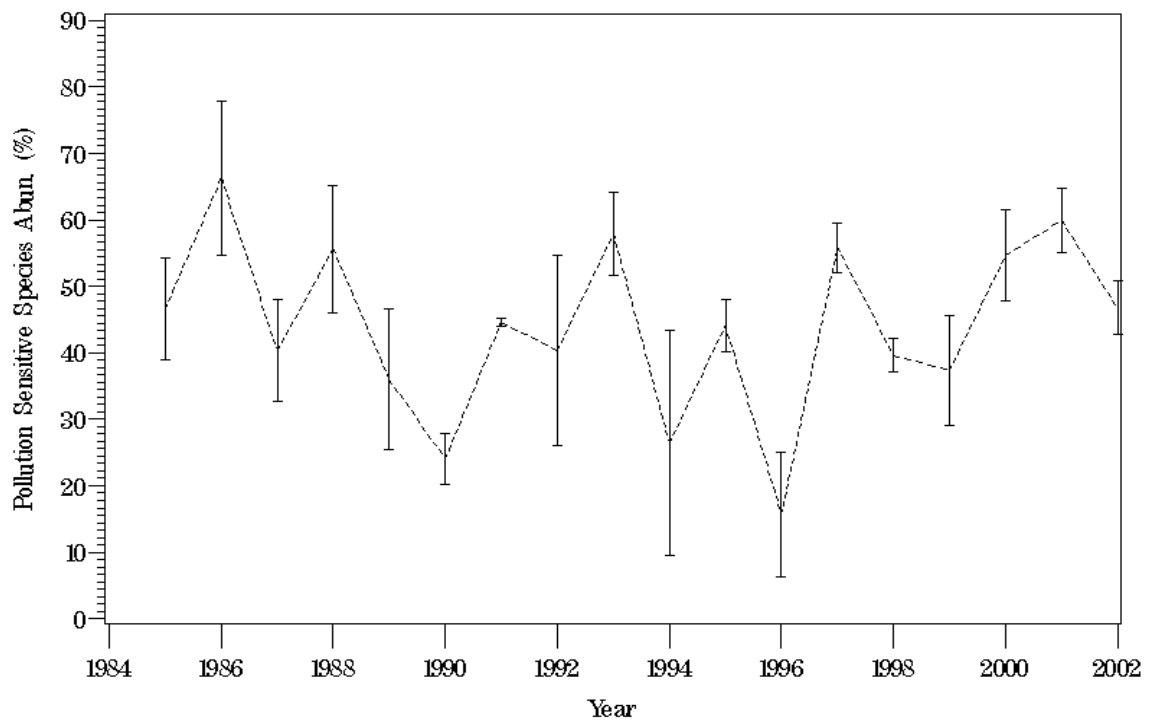


Figure P58. Plot of pollution sensitive species abundance at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

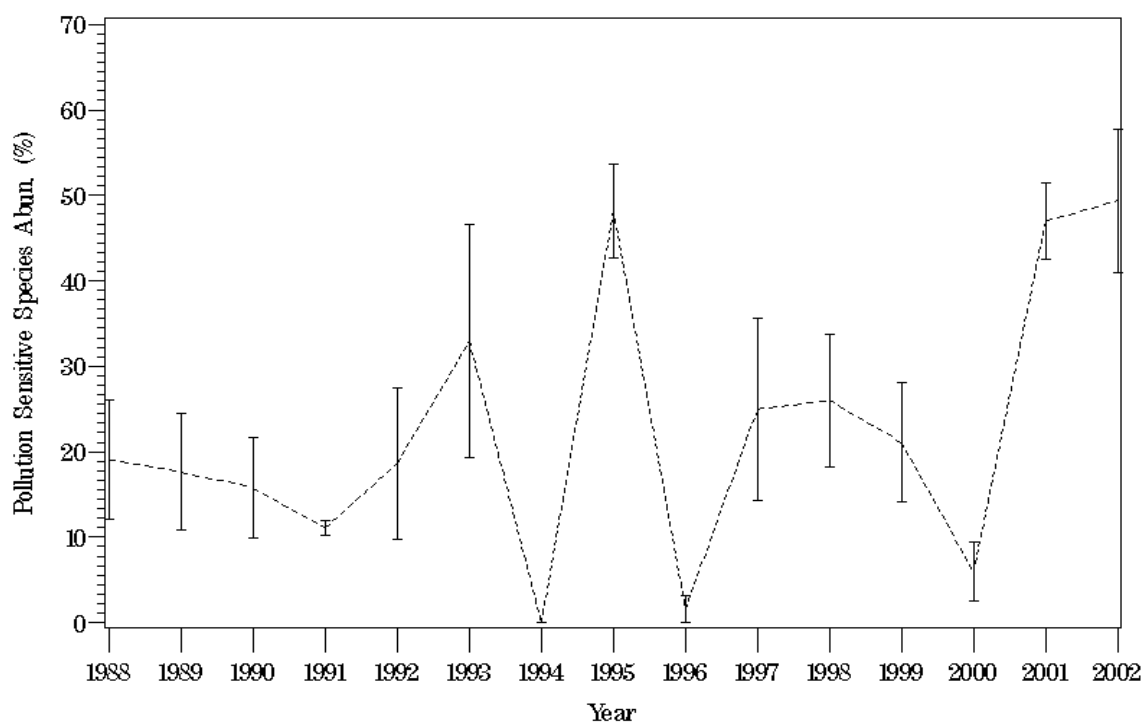


Figure P59. Plot of pollution sensitive species abundance at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

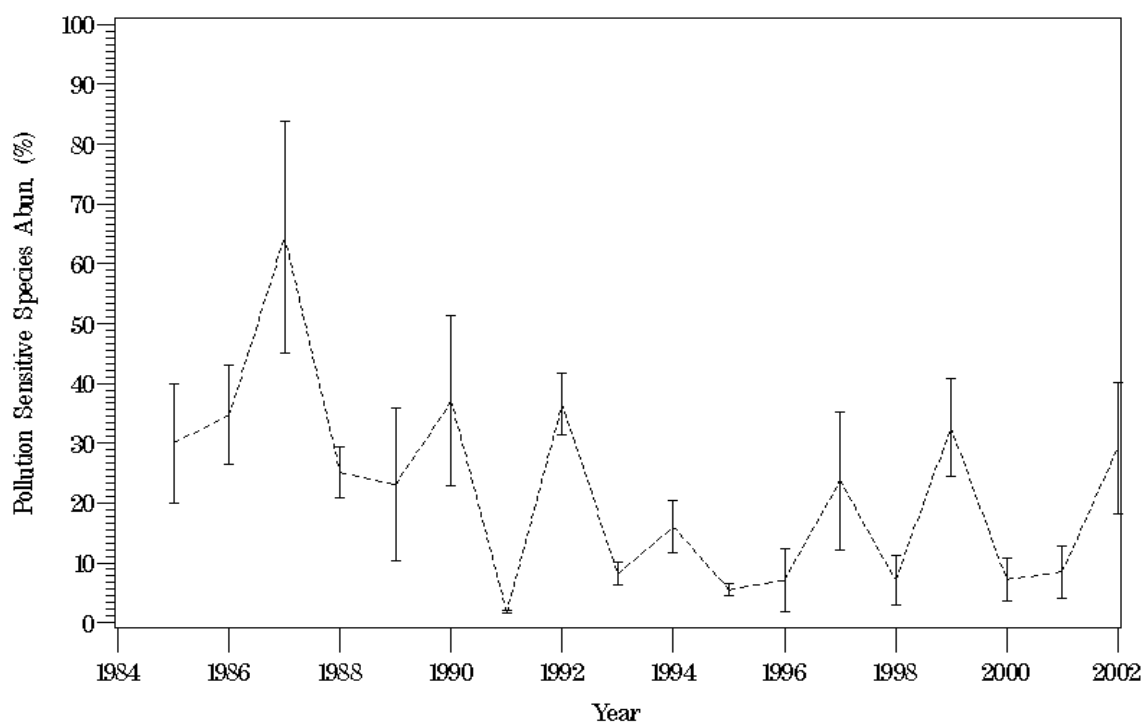


Figure P60. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

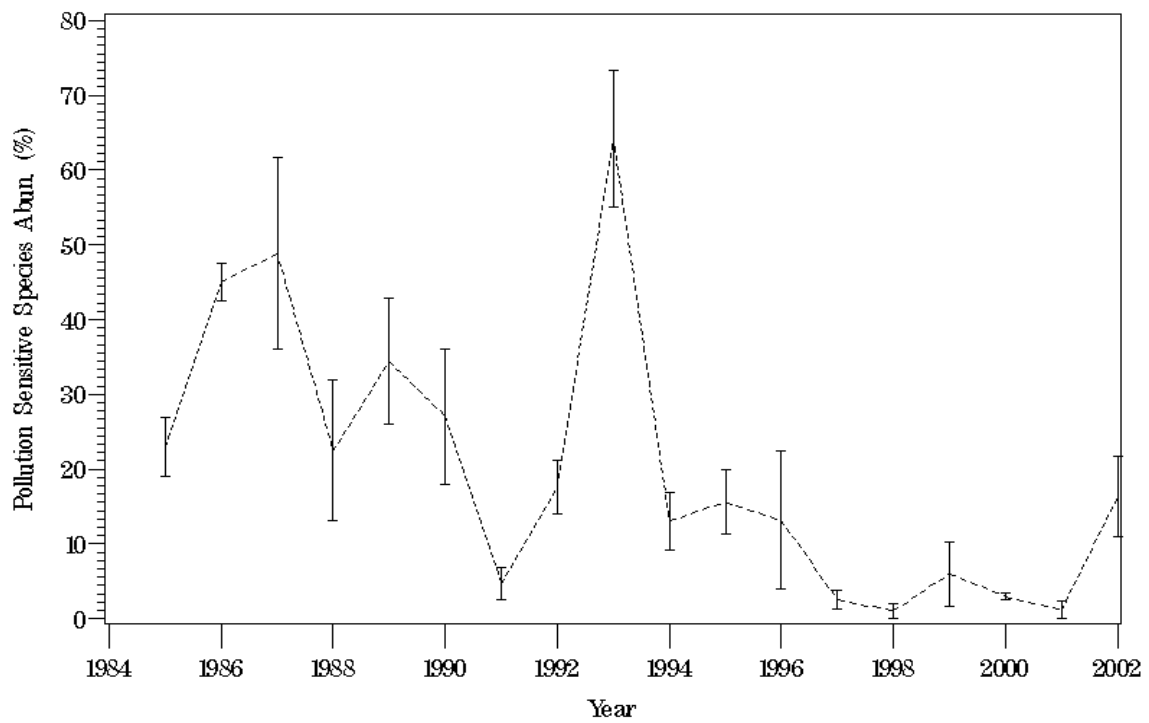


Figure P61. Plot of pollution sensitive species abundance at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

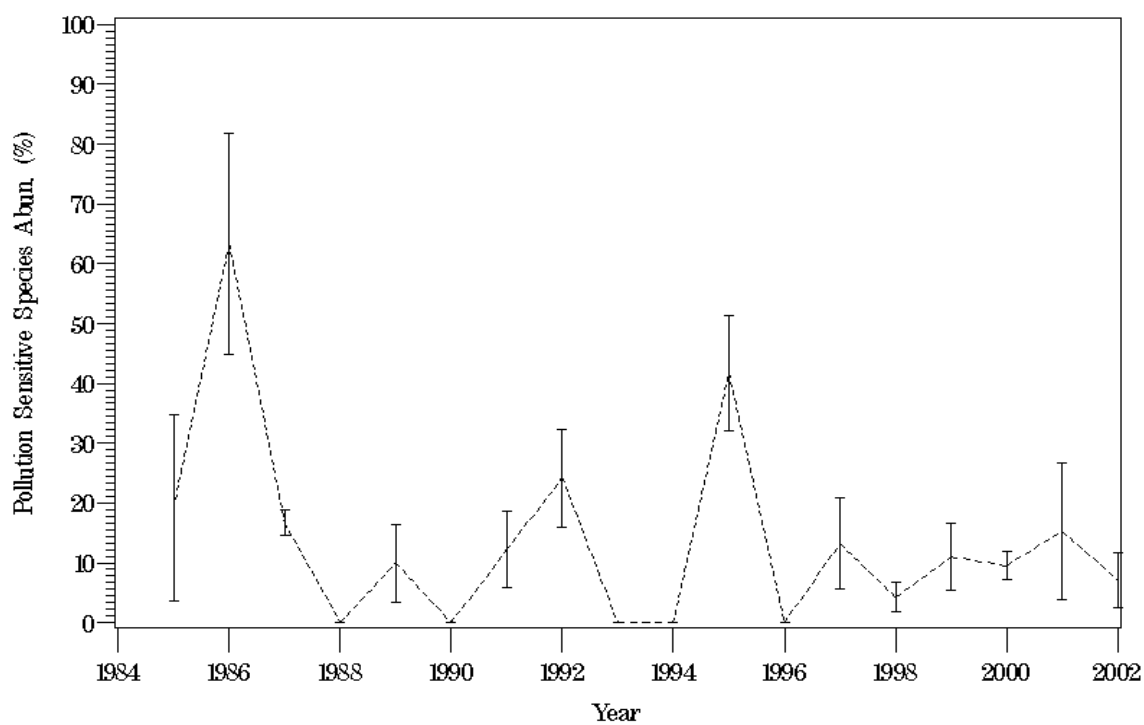


Figure P62. Plot of pollution sensitive species abundance at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

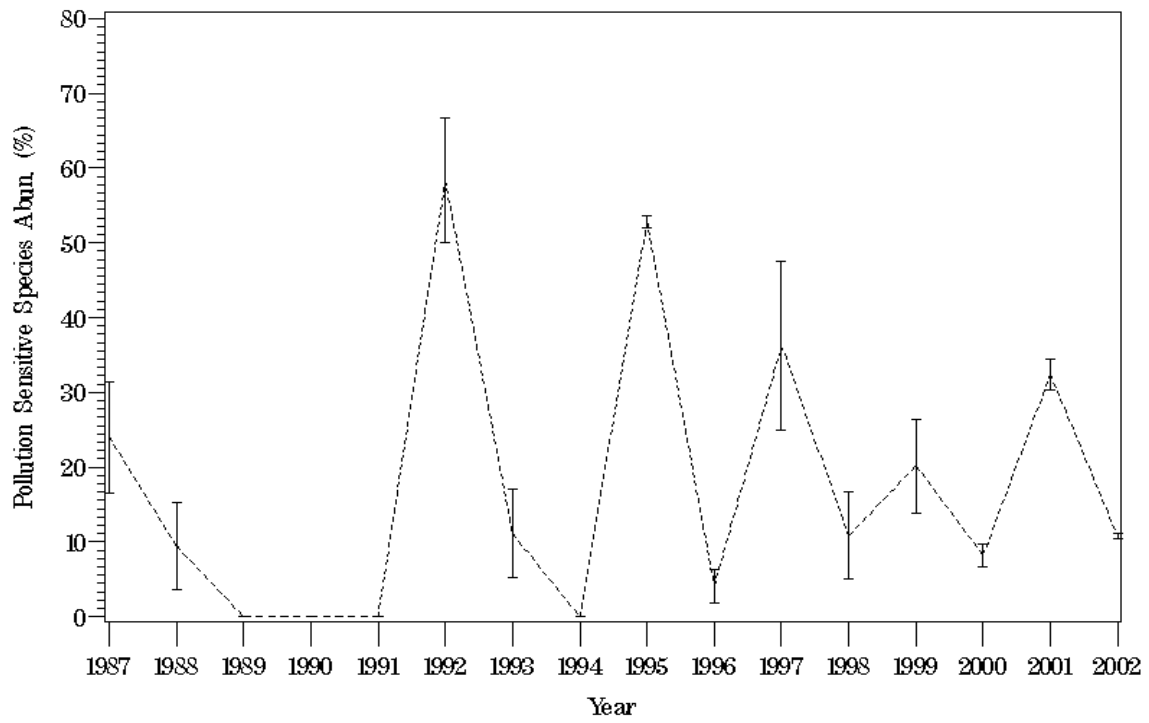


Figure P63. Plot of pollution sensitive species abundance at station LE3.4 for 1985 through 2002.

CB8.1 (1—CB)

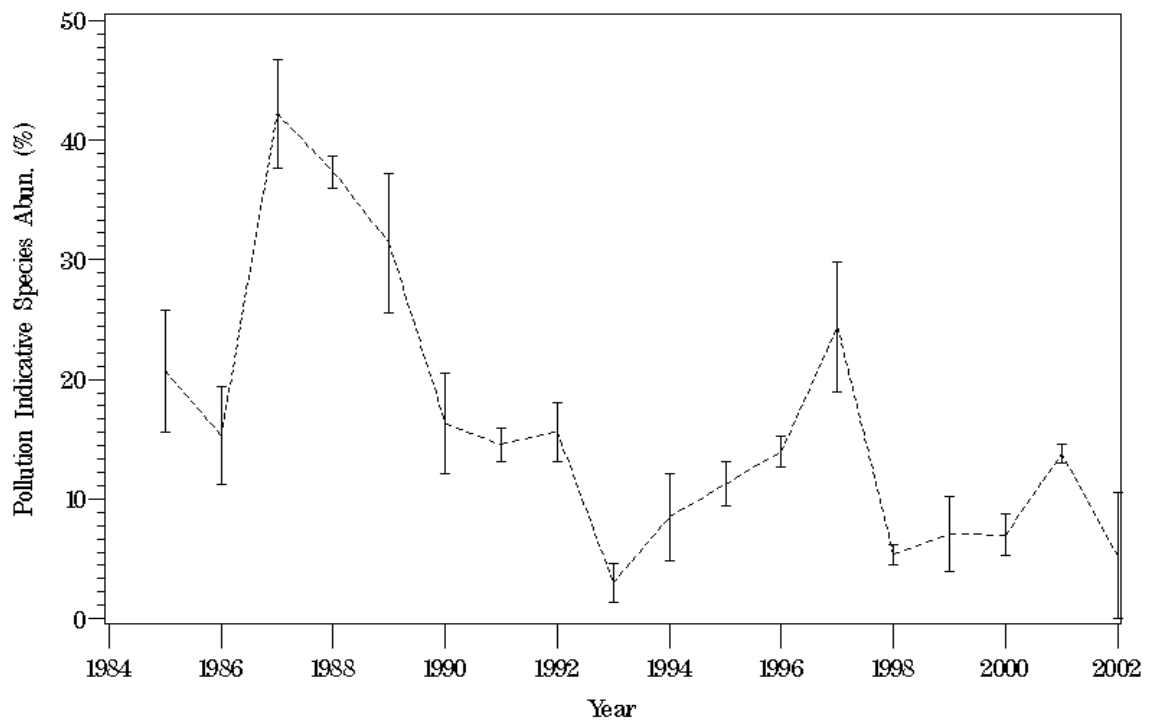


Figure P64. Plot of pollution indicative species abundance at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

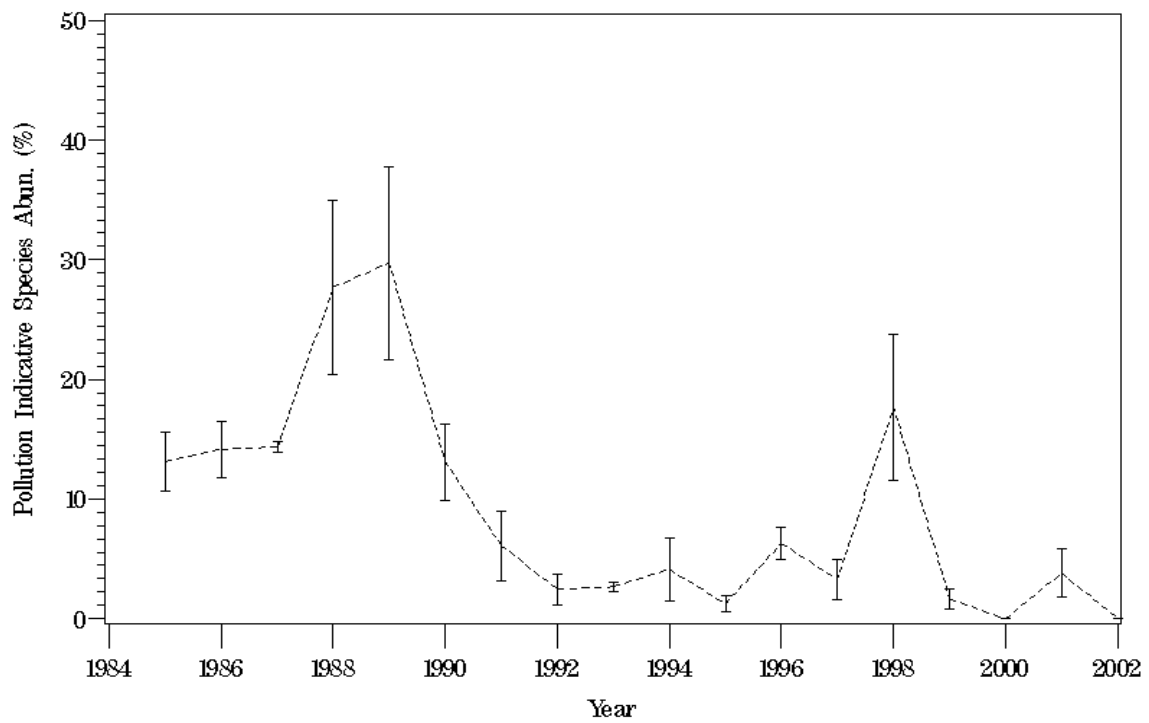


Figure P65. Plot of pollution indicative species abundance at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

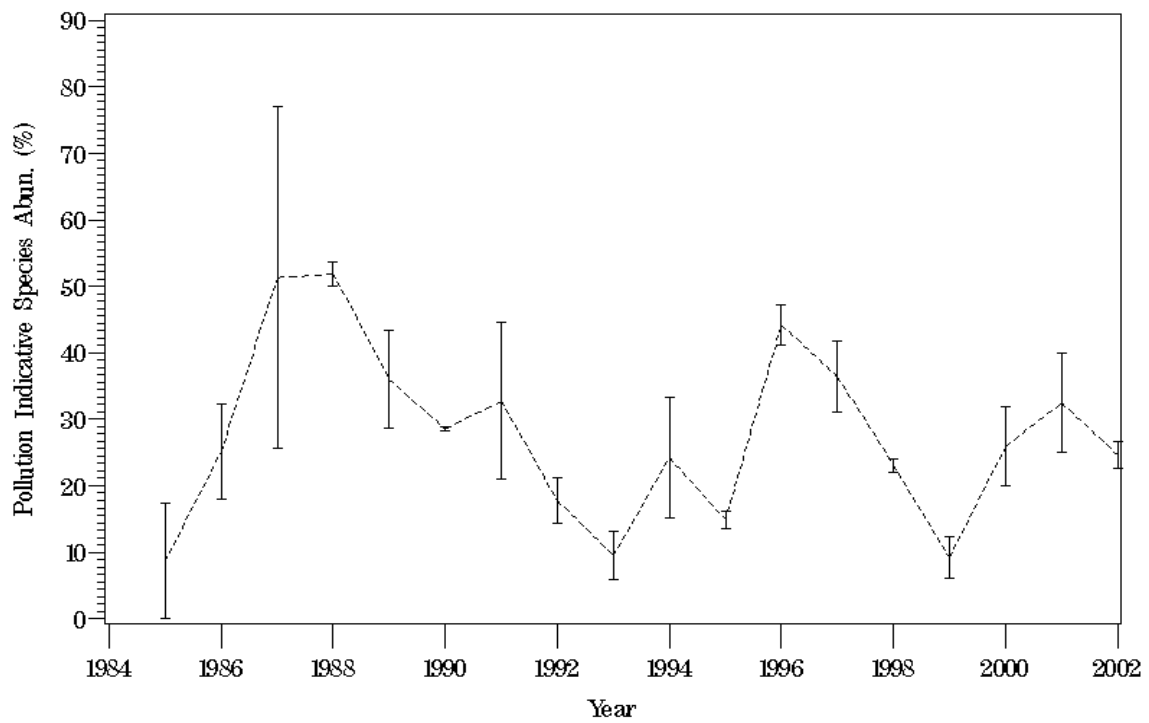


Figure P66. Plot of pollution indicative species abundance at station CB6.4 for 1985 through 2002.

CB6.1 (4—CB)

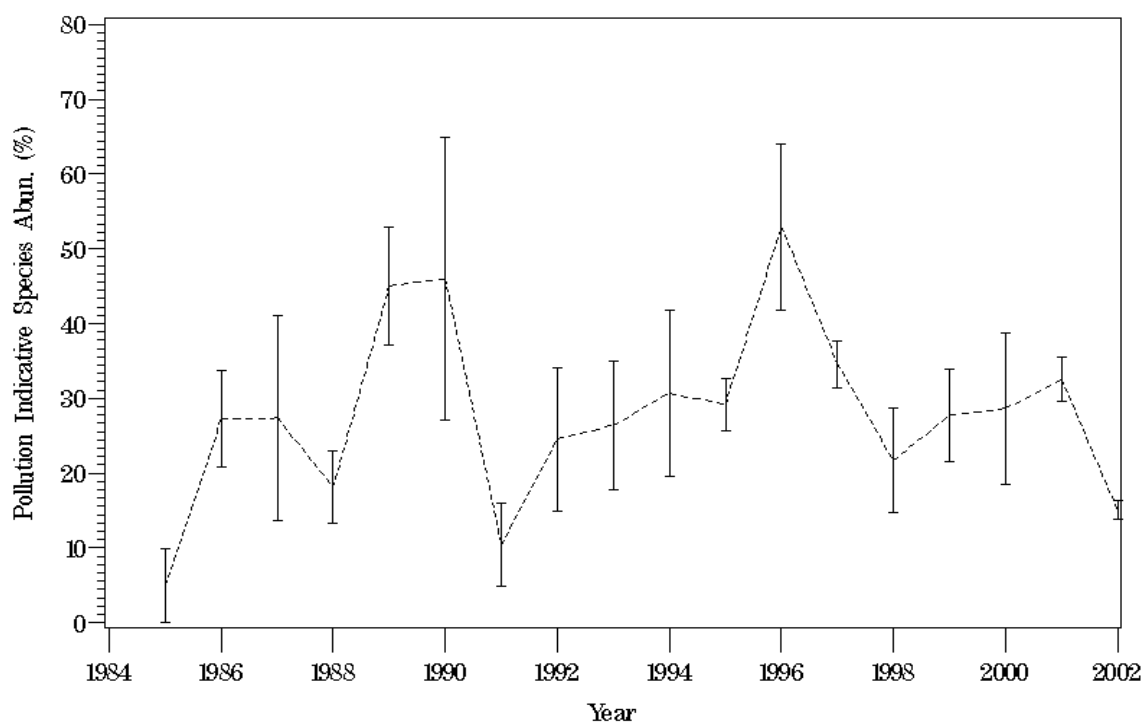


Figure P67. Plot of pollution indicative species abundance at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

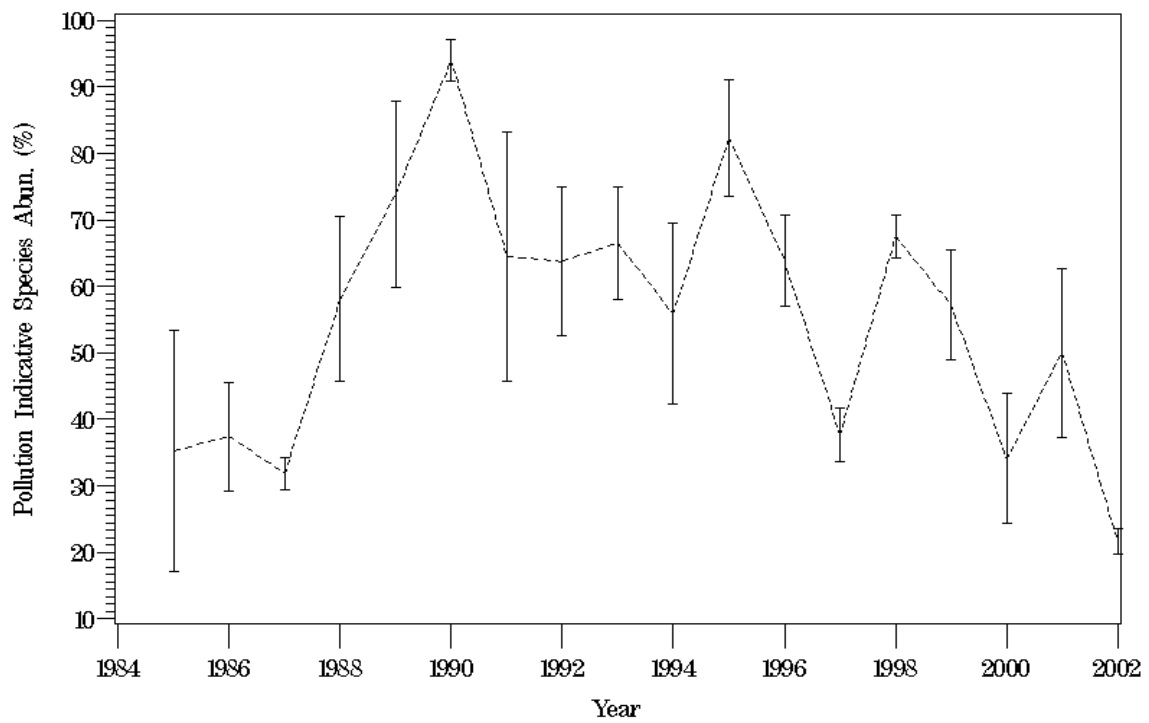


Figure P68. Plot of pollution indicative species abundance at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

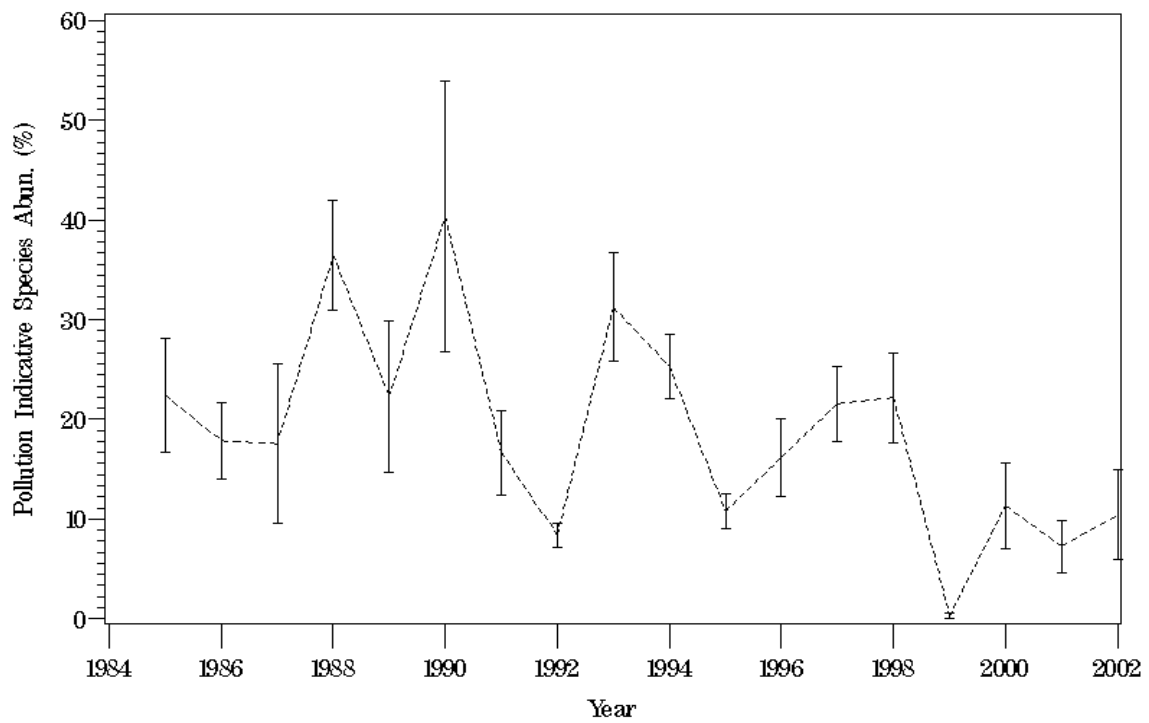


Figure P69. Plot of pollution indicative species abundance at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

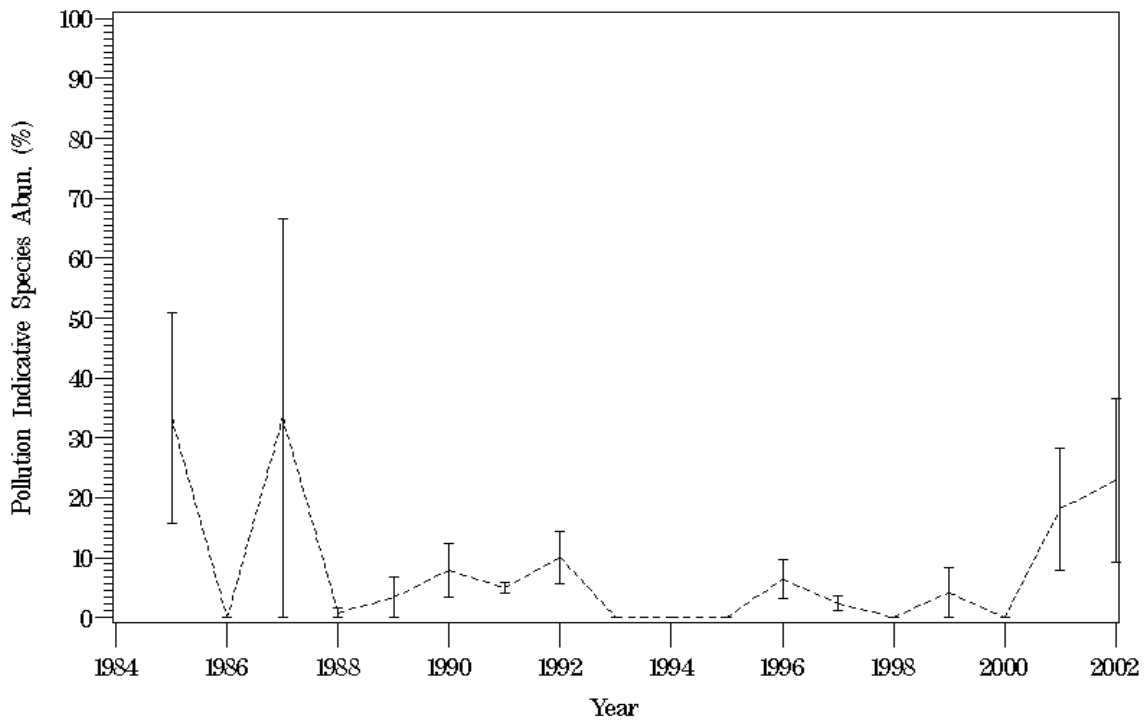


Figure P70. Plot of pollution indicative species abundance at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

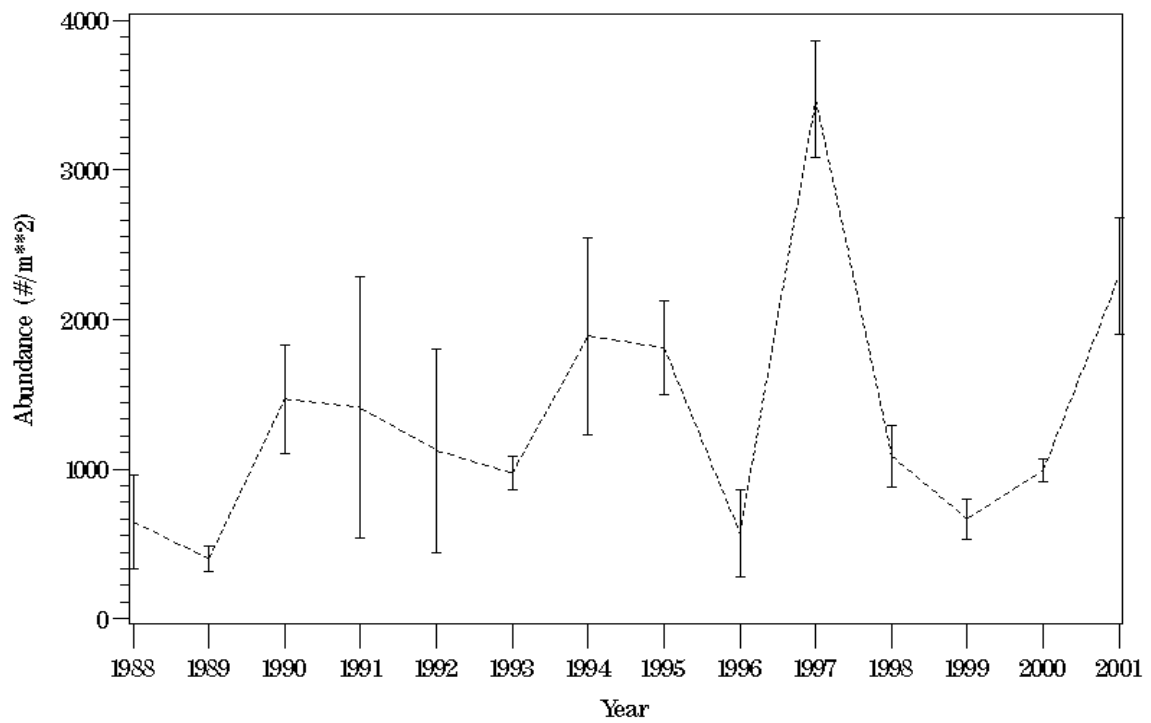


Figure P71. Plot of pollution indicative species abundance at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

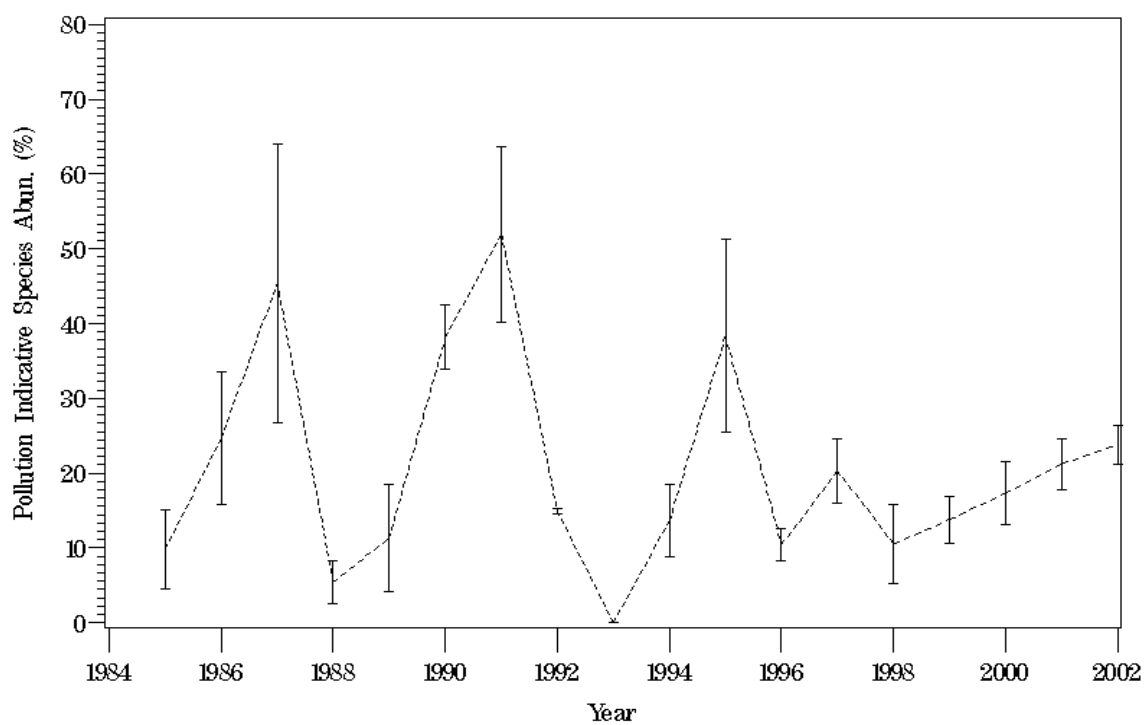


Figure P72. Plot of pollution indicative species abundance at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

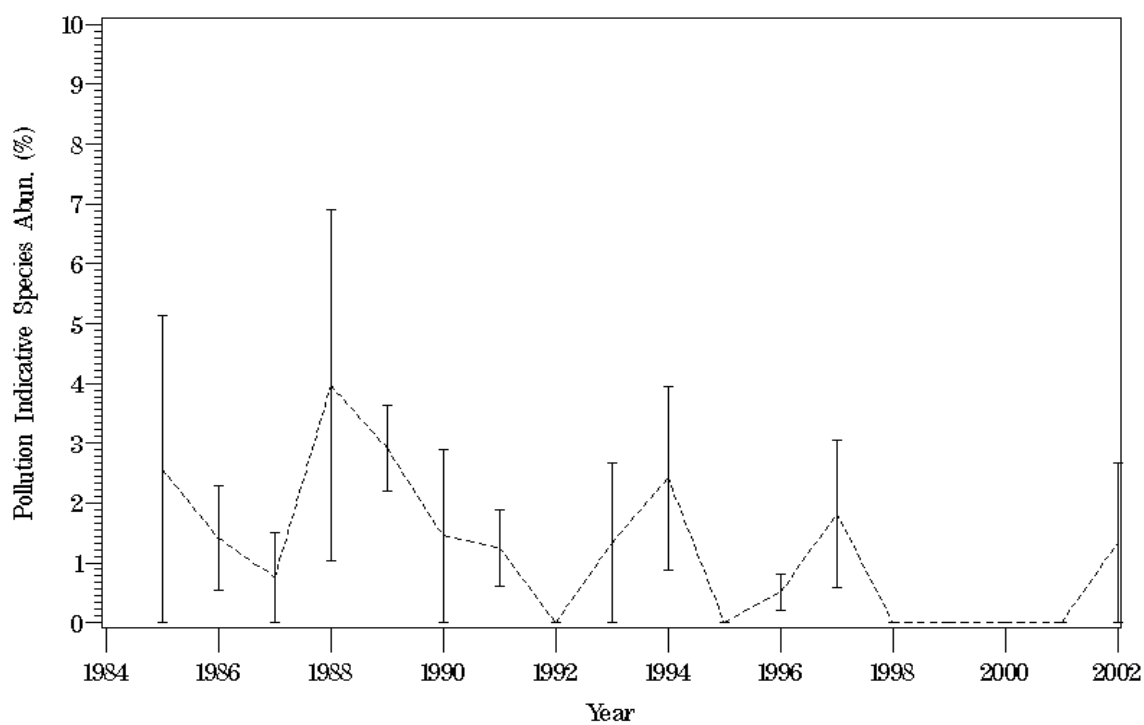


Figure P73. Plot of pollution indicative species abundance at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

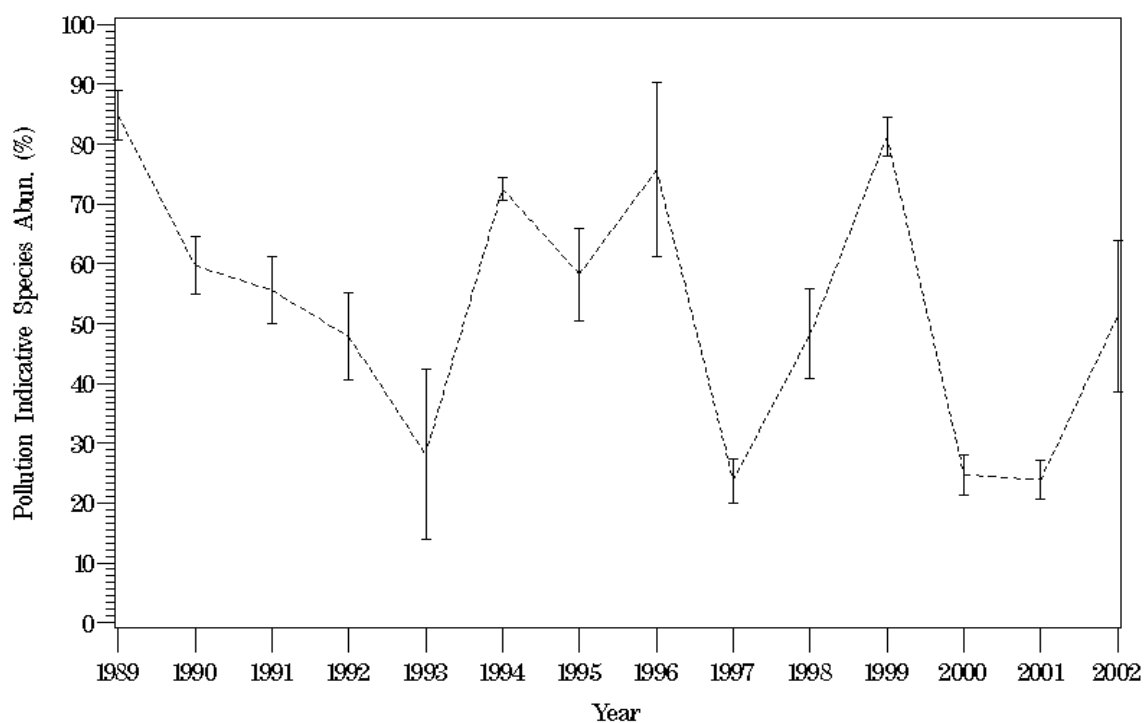


Figure P74. Plot of pollution indicative species abundance at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

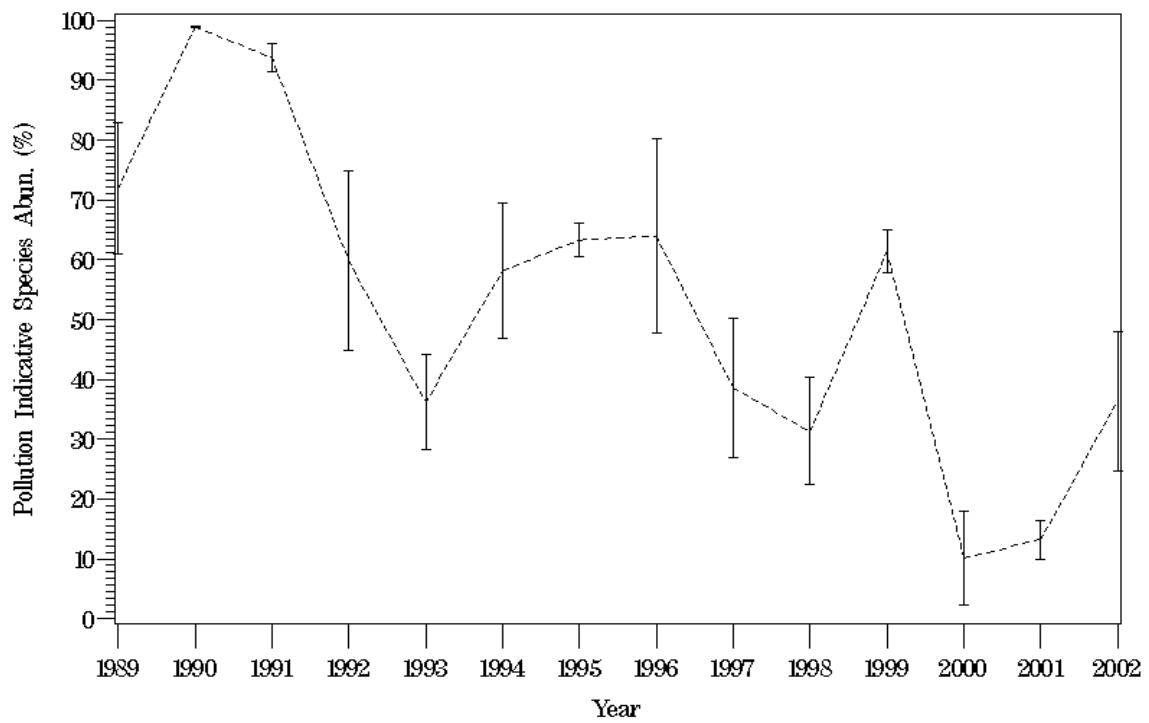


Figure P75. Plot of pollution indicative species abundance at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

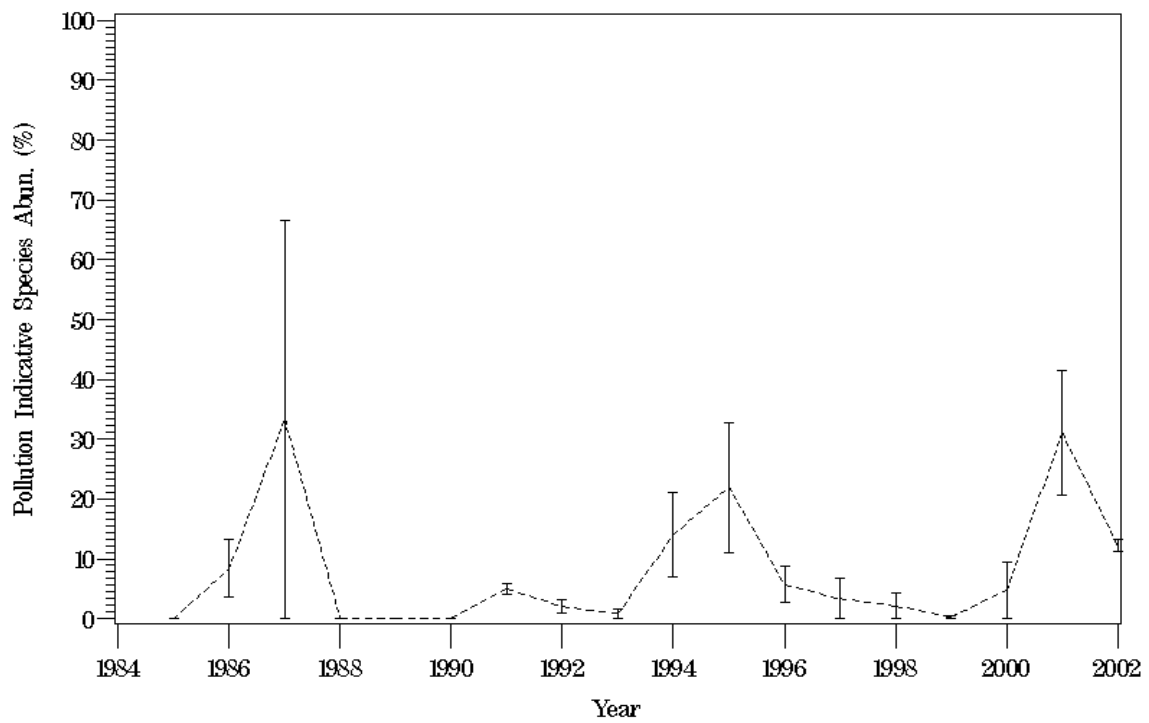


Figure P76. Plot of pollution indicative species abundance at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

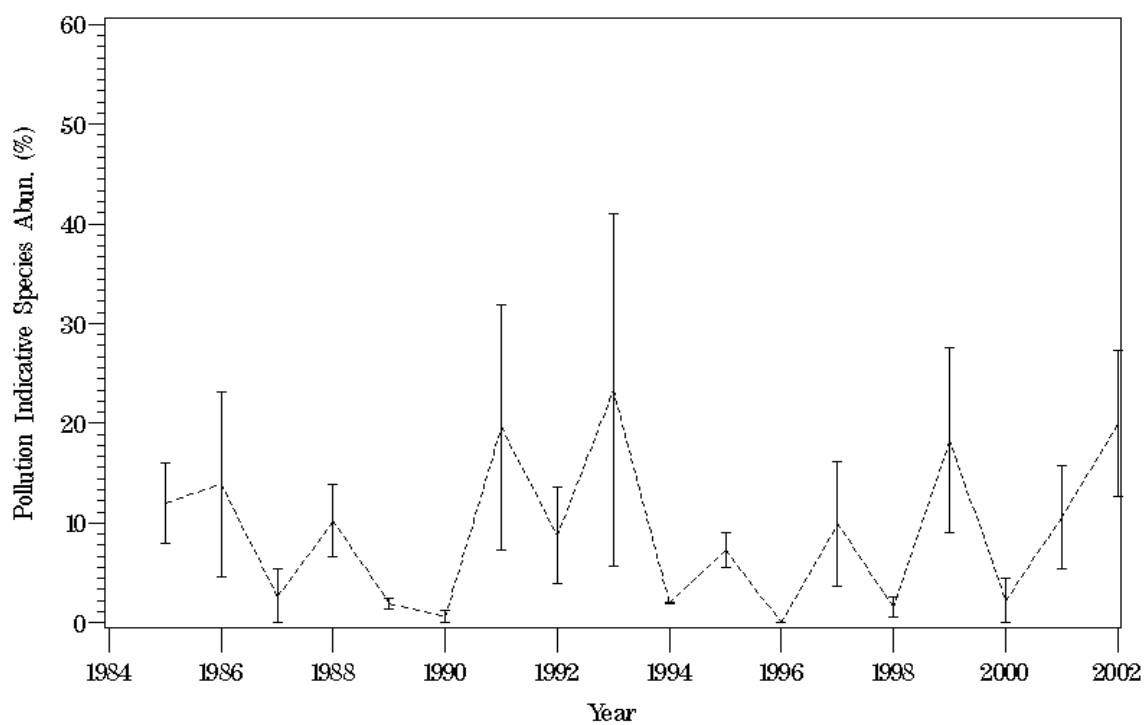


Figure P77. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

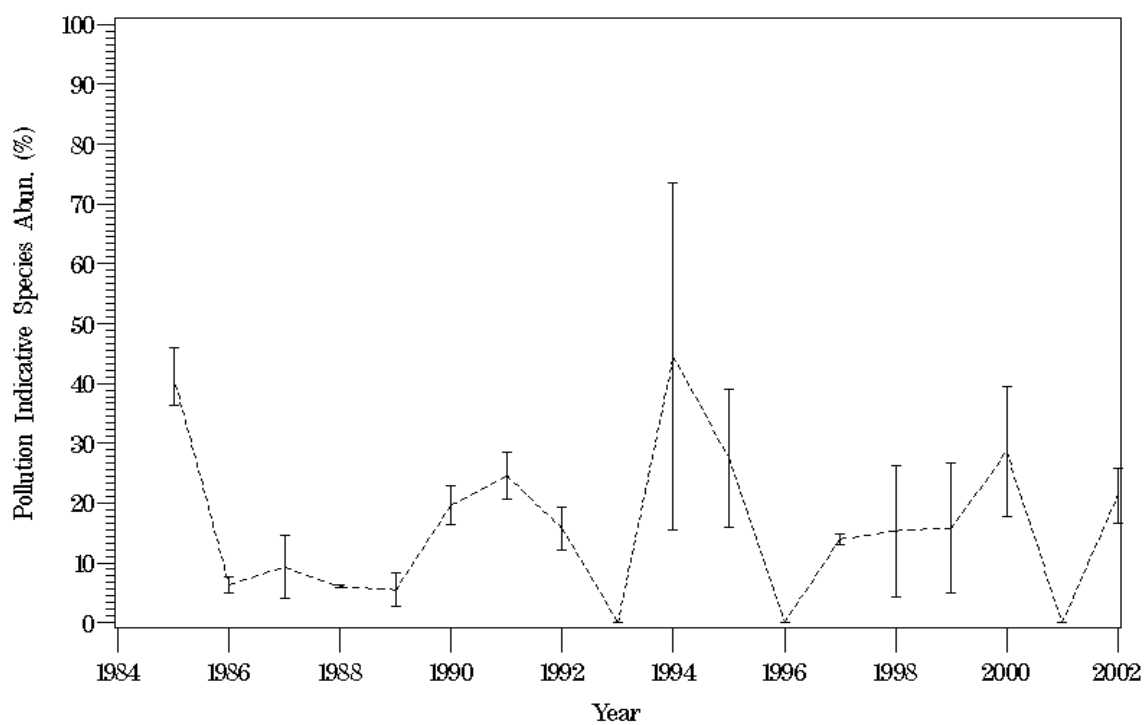


Figure P78. Plot of pollution indicative species abundance at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

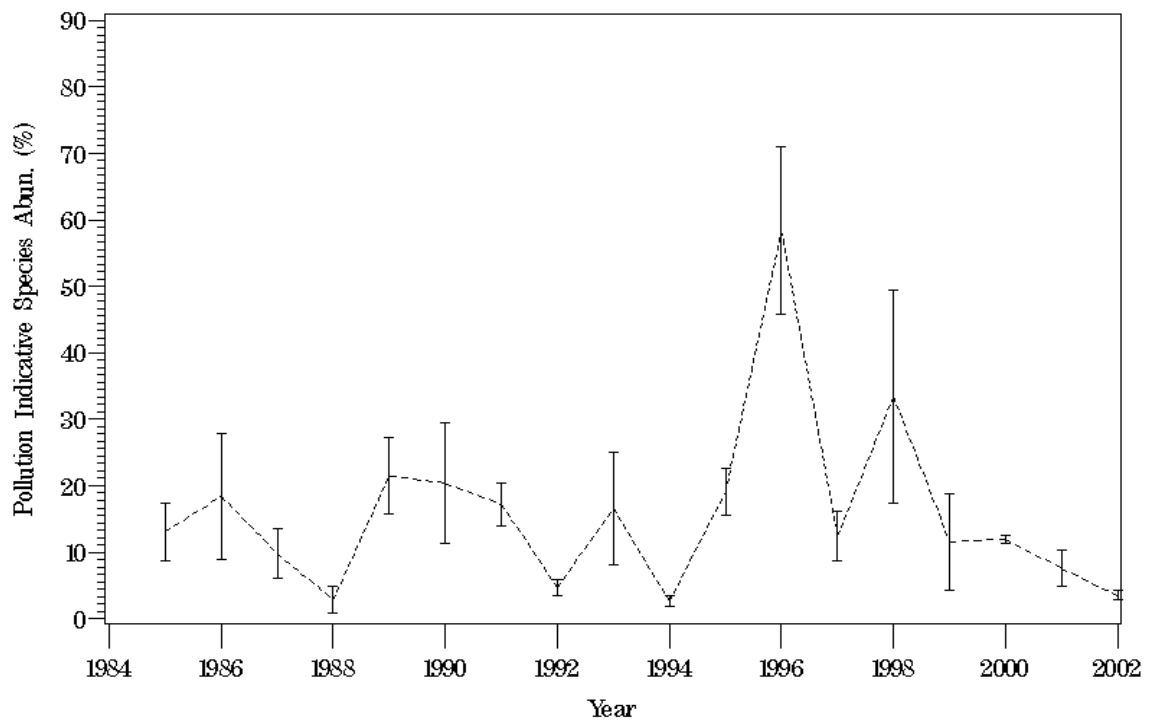


Figure P79. Plot of pollution indicative species abundance at station LE4.3 for 1985 through 2002.

LE4.3B (5-YR)

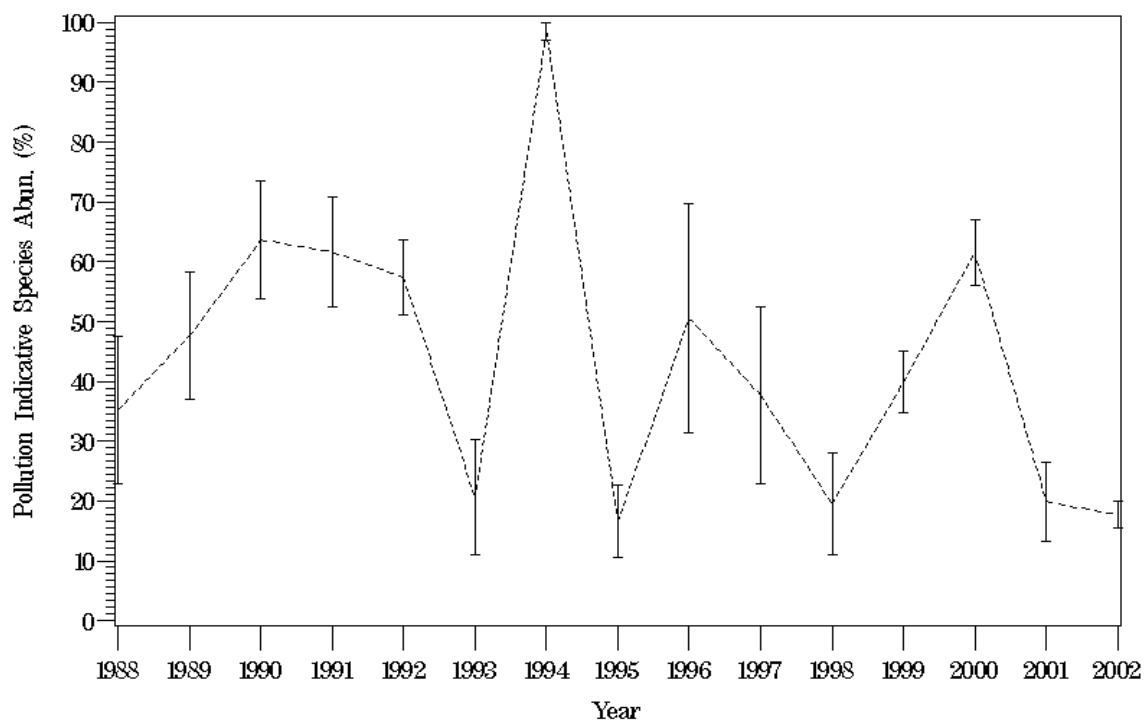


Figure P80. Plot of pollution indicative species abundance at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

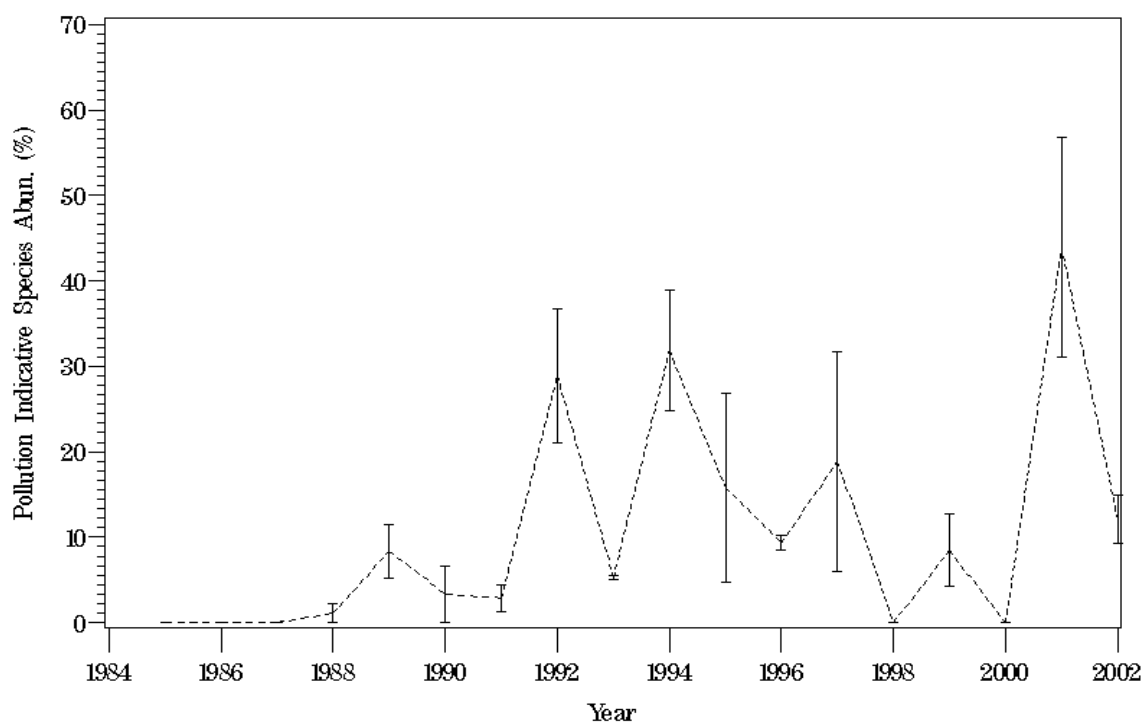


Figure P81. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

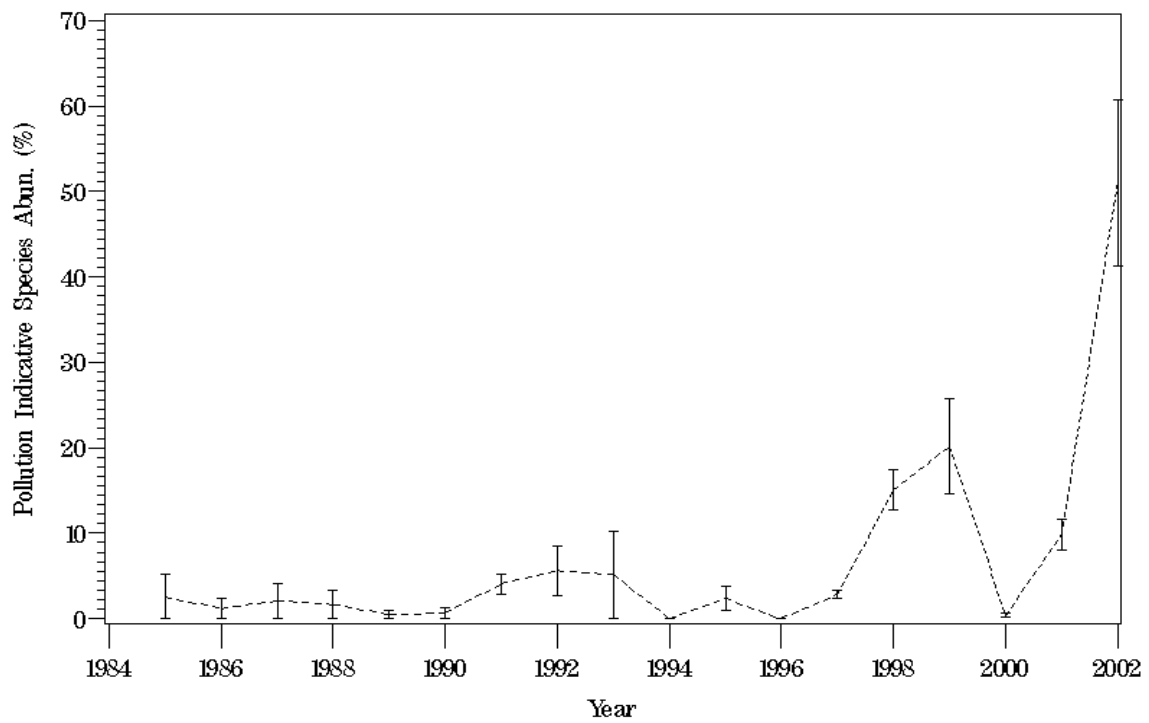


Figure P82. Plot of pollution indicative species abundance at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

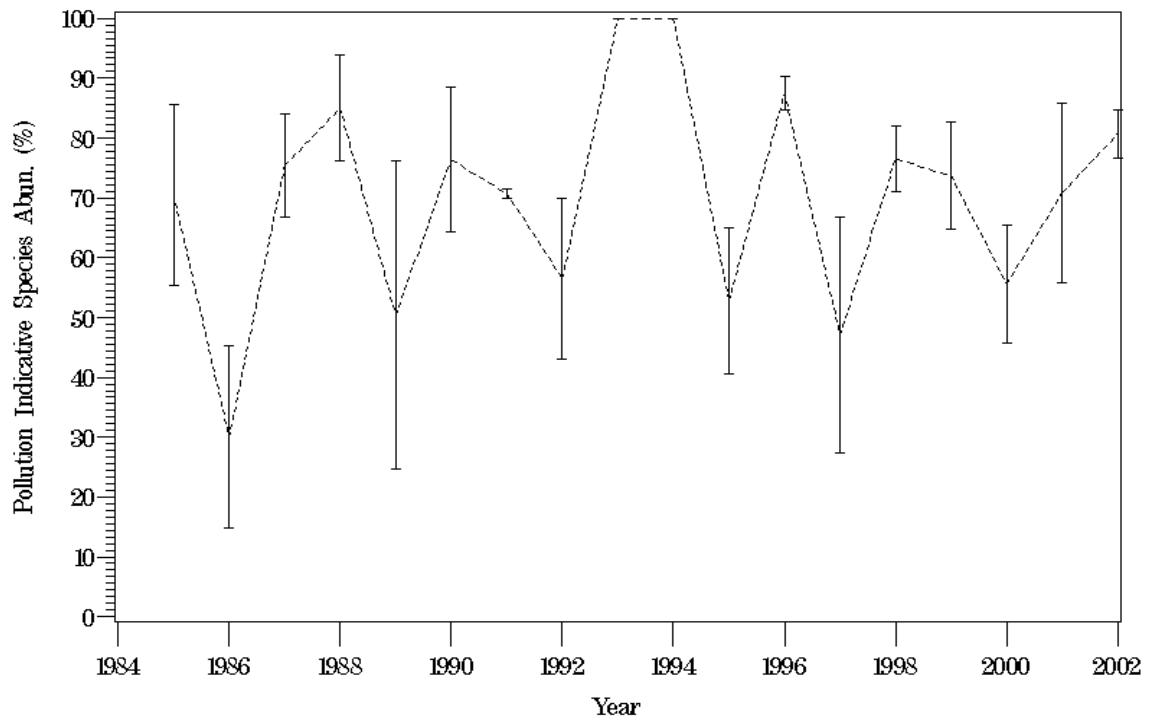


Figure P83. Plot of pollution indicative species abundance at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

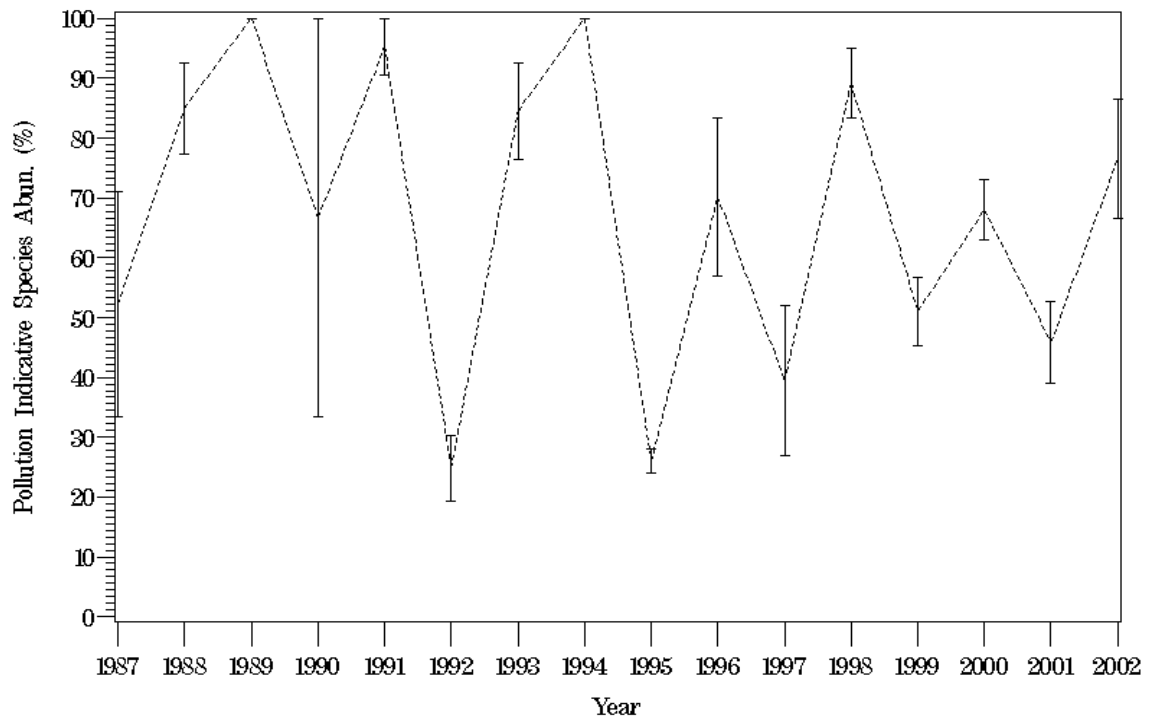


Figure P84. Plot of pollution indicative species abundance at station LE3.4 for 1985 through 2002.

CB8.1 (1-CB)

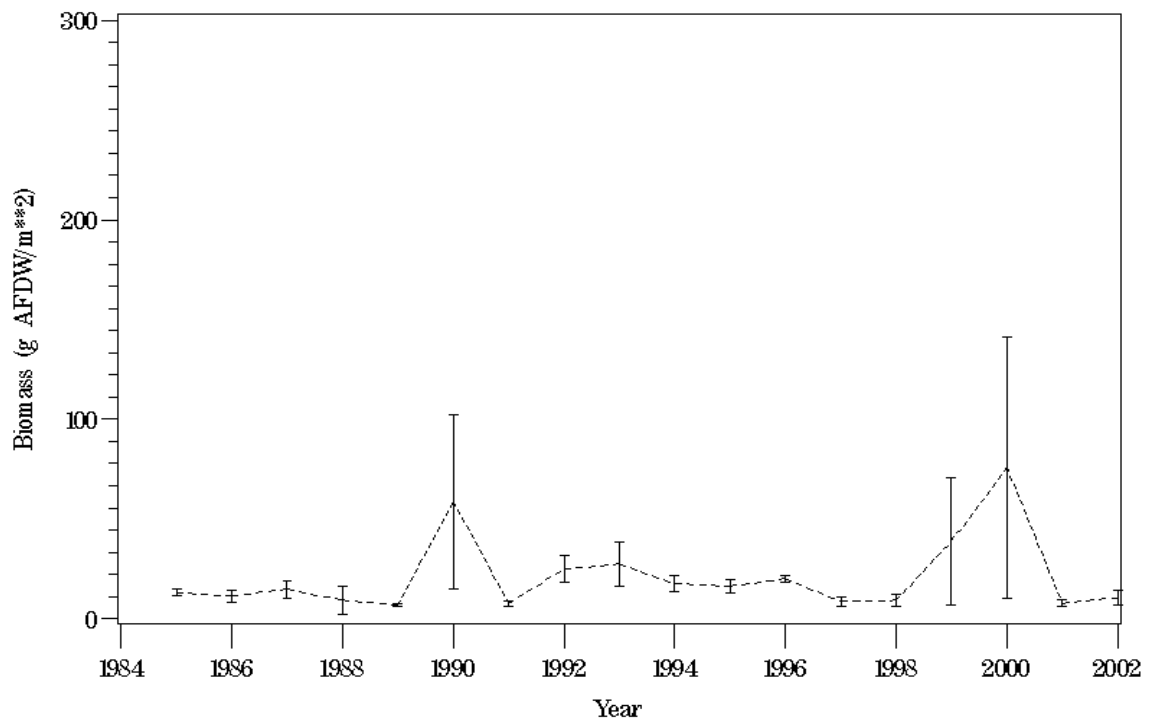


Figure P85. Plot of total benthic community biomass at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

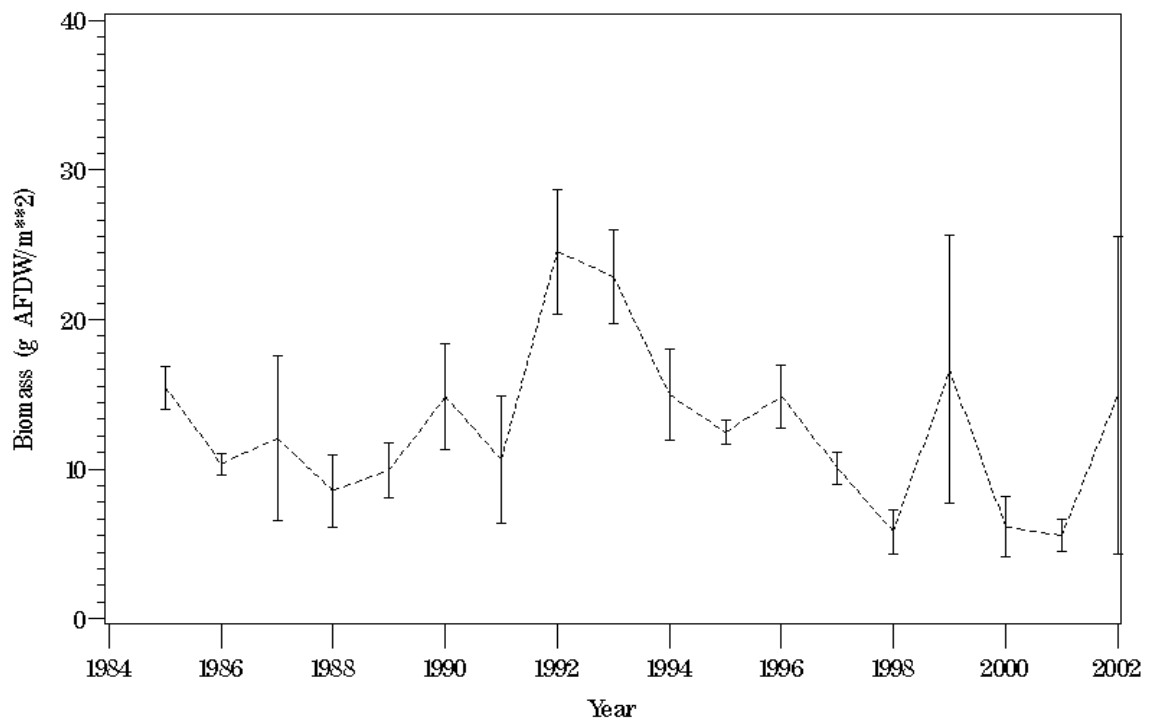


Figure P86. Plot of total benthic community biomass at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

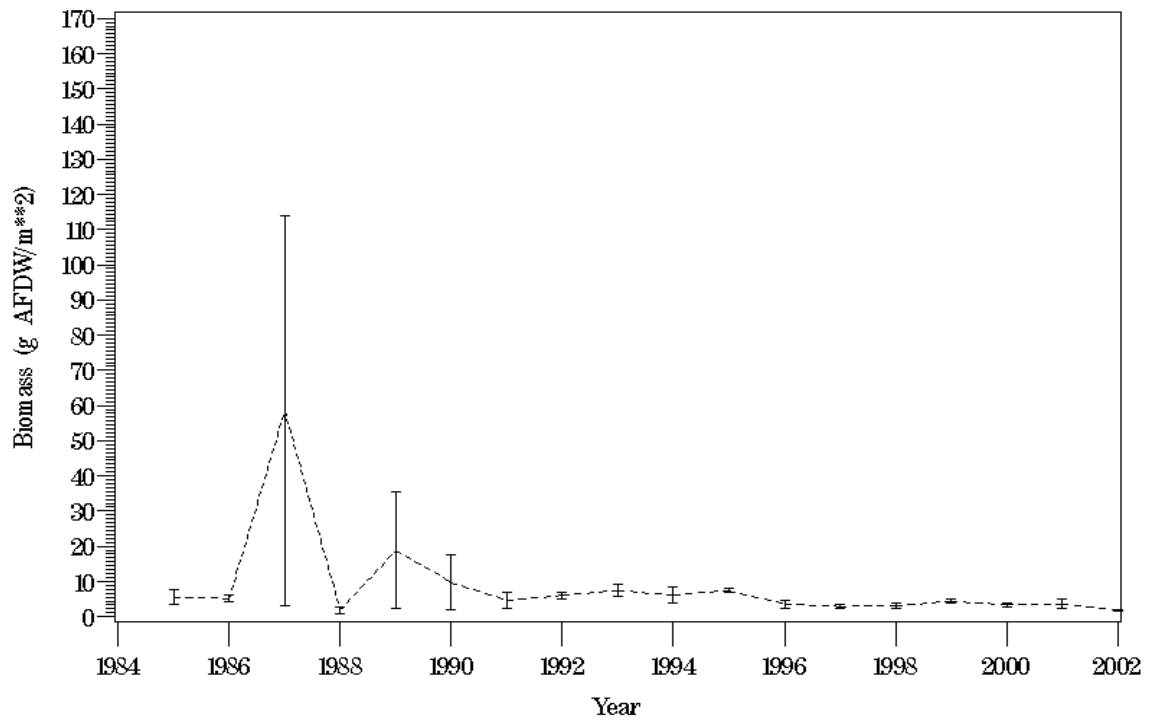


Figure P87. Plot of total benthic community biomass at station CB6.4 for 1985 through 2002.

CB6.1 (4-CB)

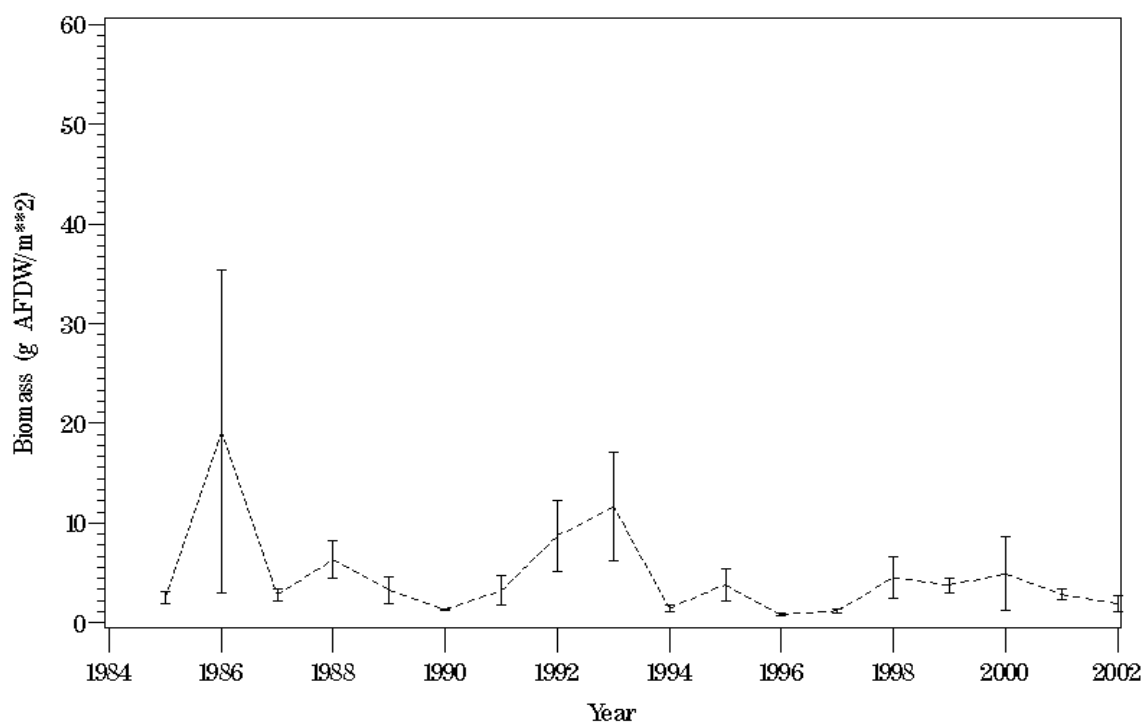


Figure P88. Plot of total benthic community biomass at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

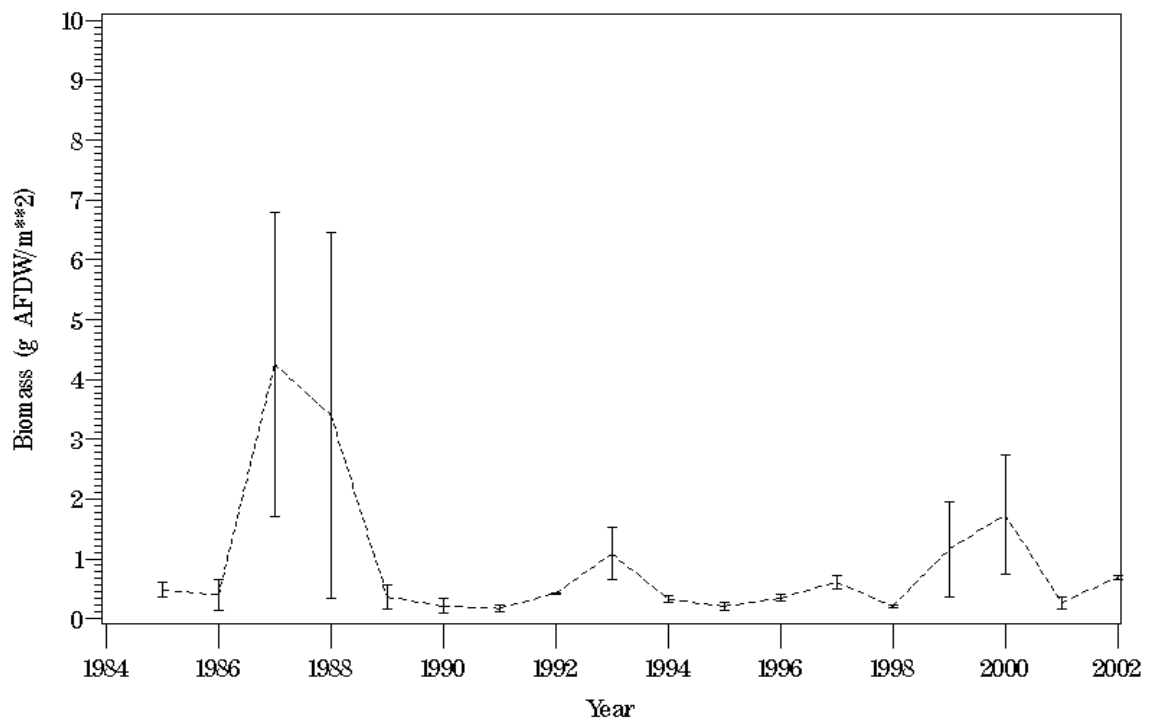


Figure P89. Plot of total benthic community biomass at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

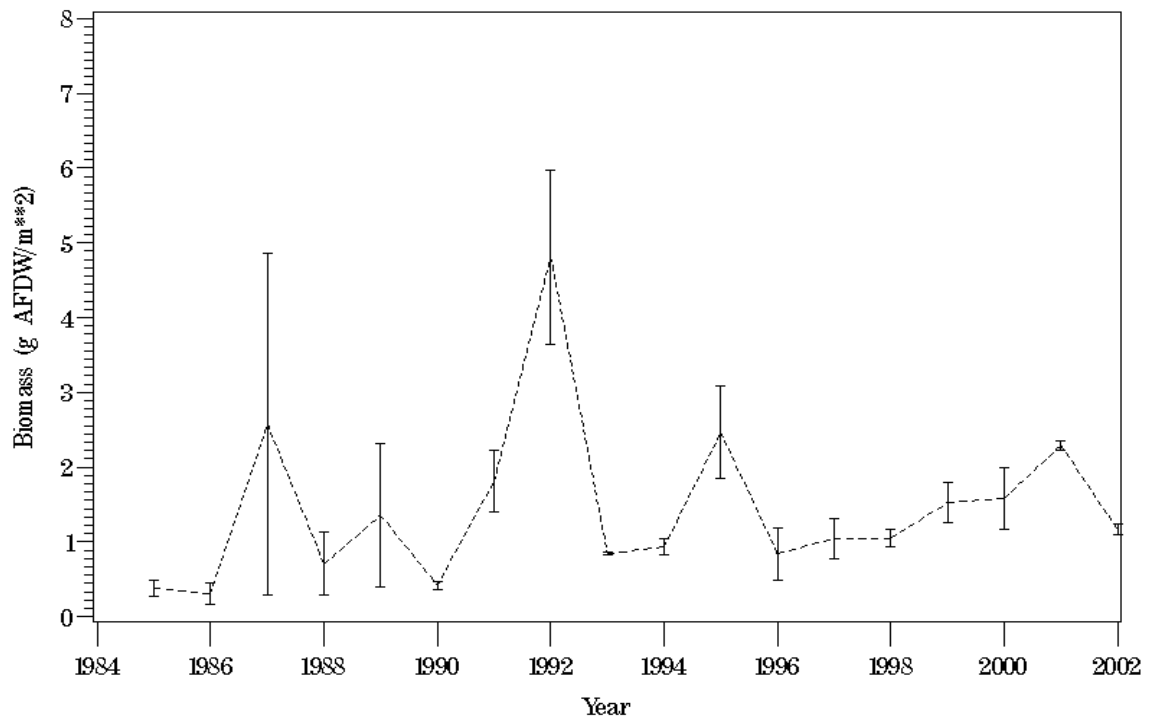


Figure P90. Plot of total benthic community biomass at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

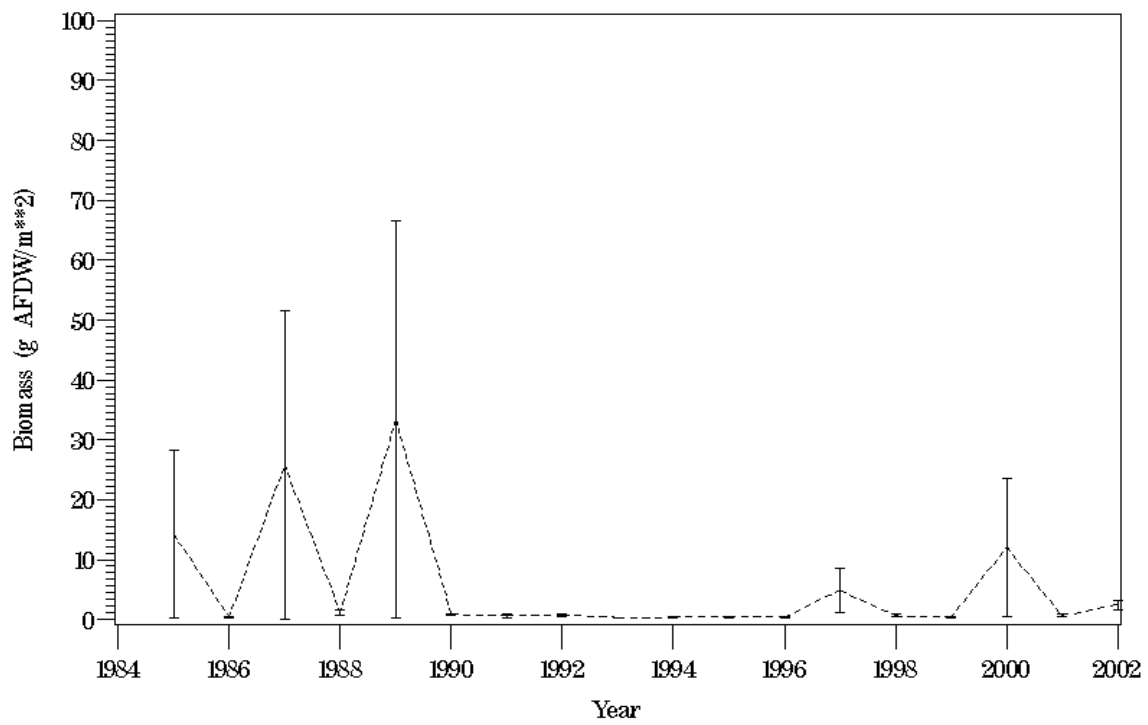


Figure P91. Plot of total benthic community biomass at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

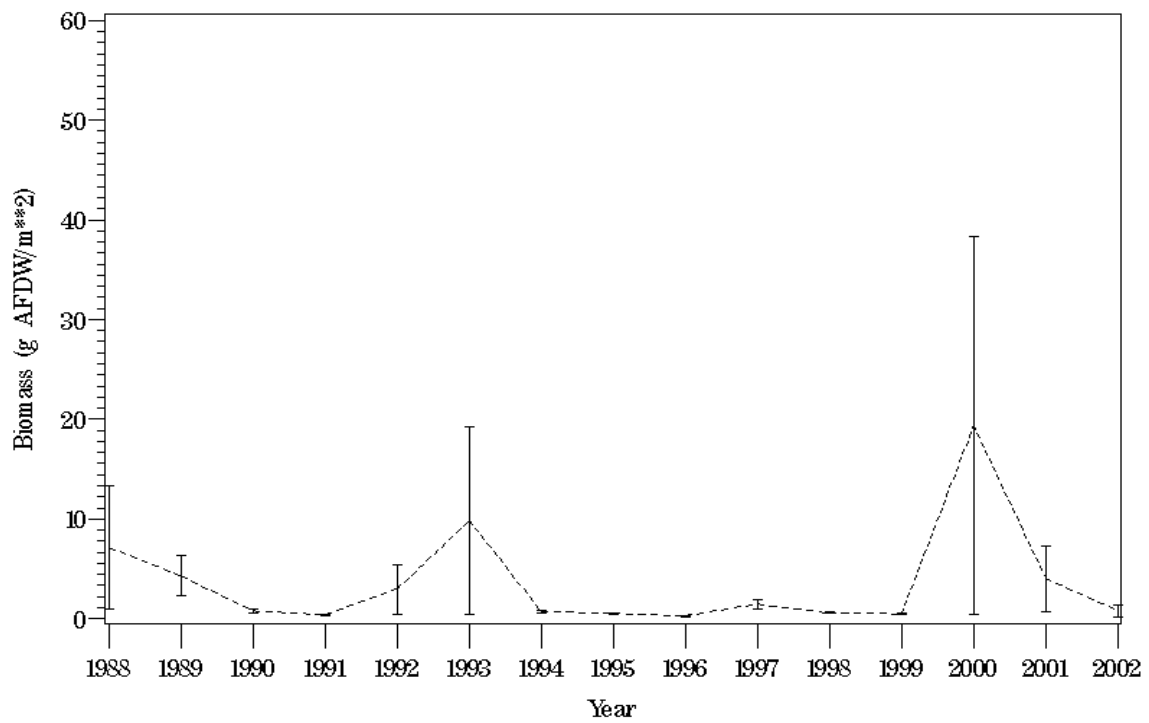


Figure P92. Plot of total benthic community biomass at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

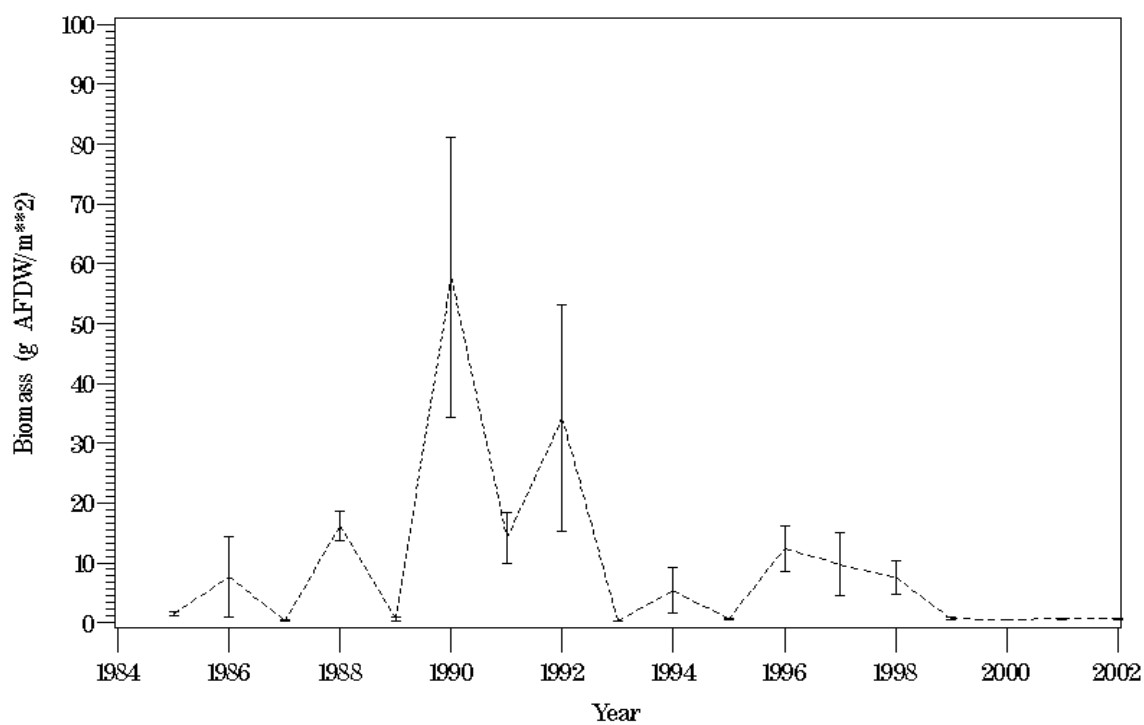


Figure P93. Plot of total benthic community biomass at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

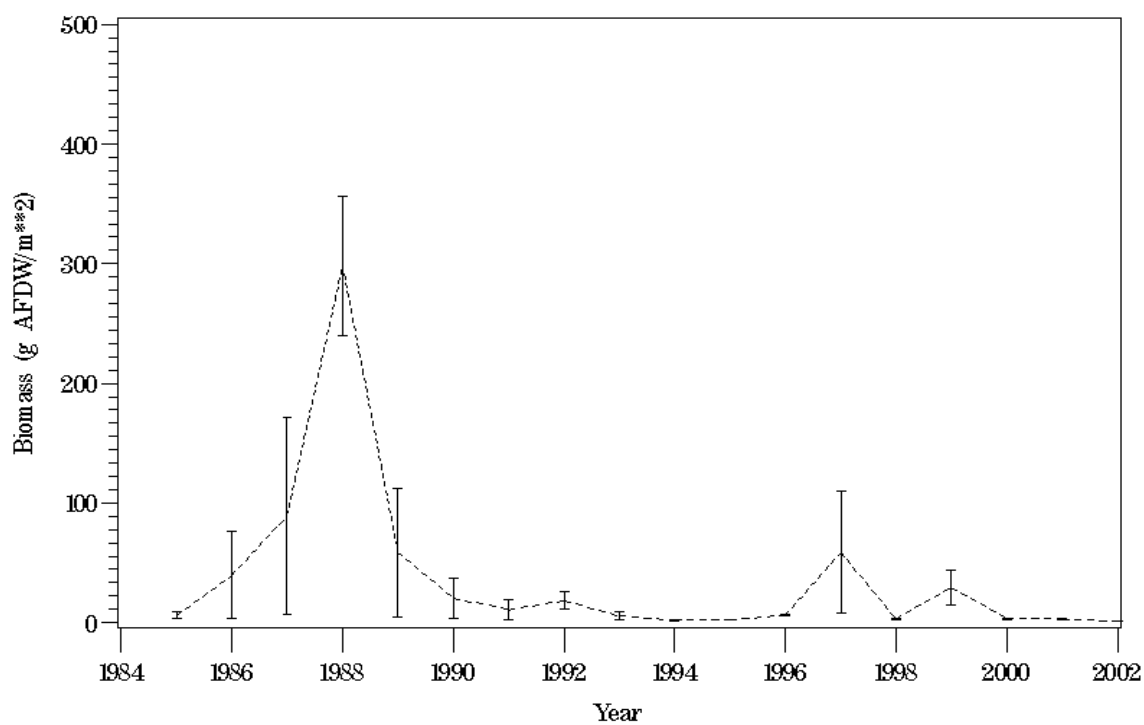


Figure P94. Plot of total benthic community biomass at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

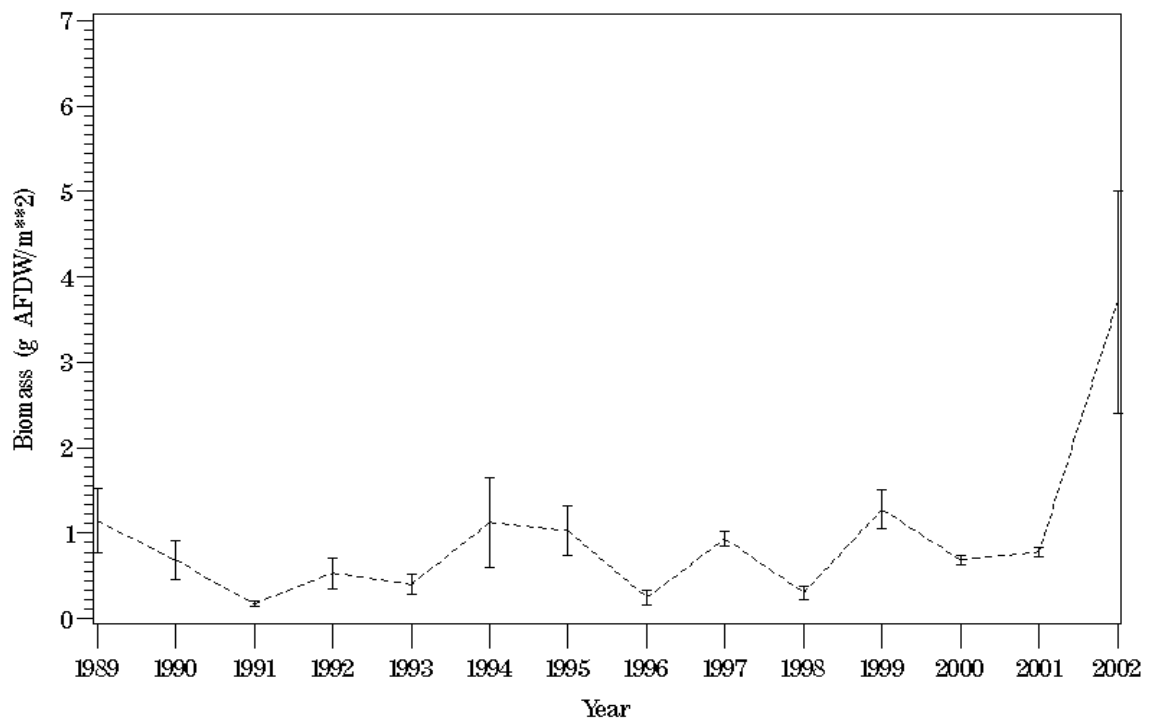


Figure P95. Plot of total benthic community biomass at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

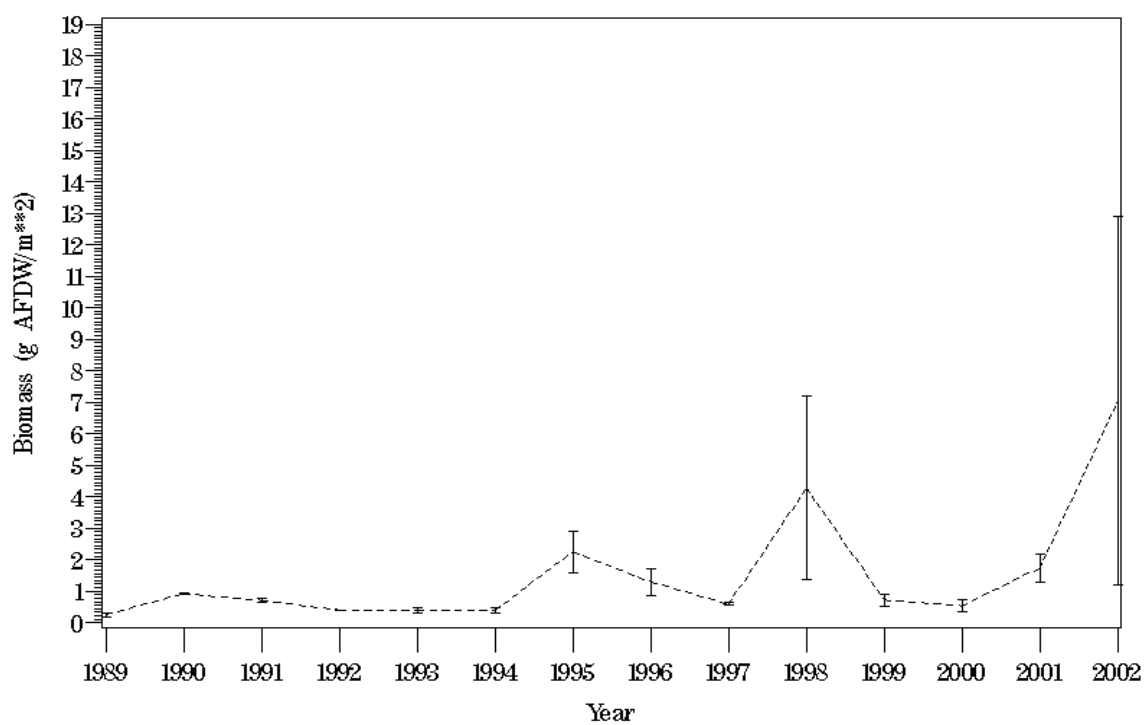


Figure P96. Plot of total benthic community biomass at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

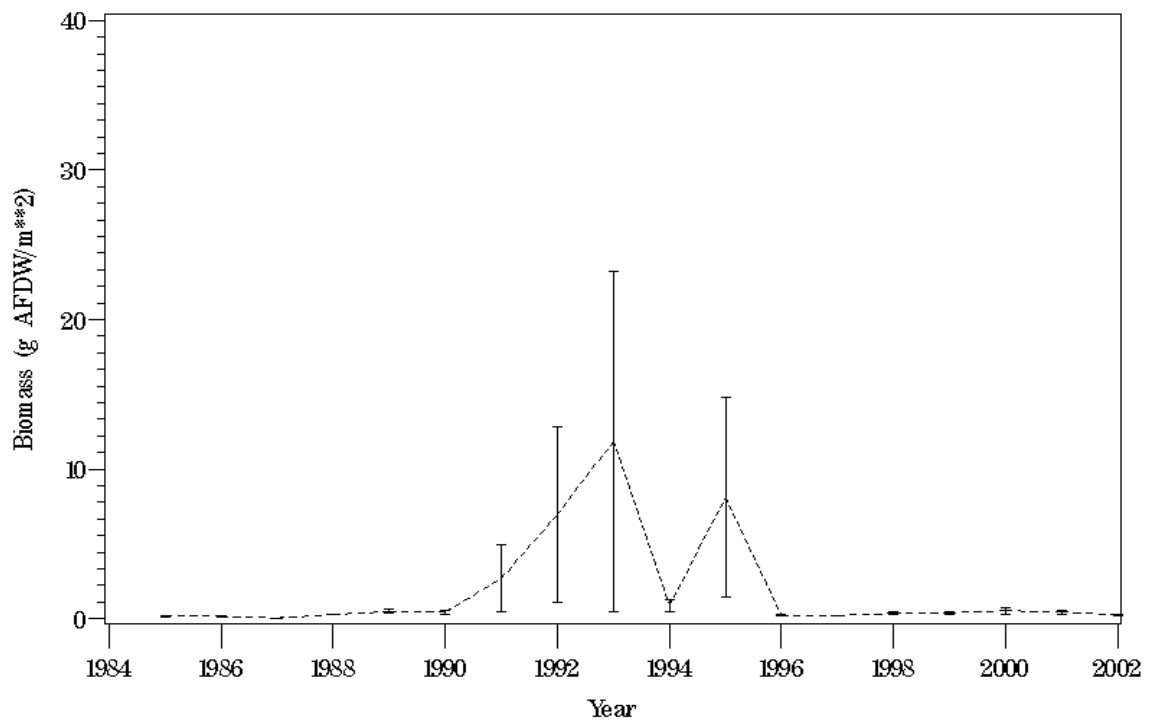


Figure P97. Plot of total benthic community biomass at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

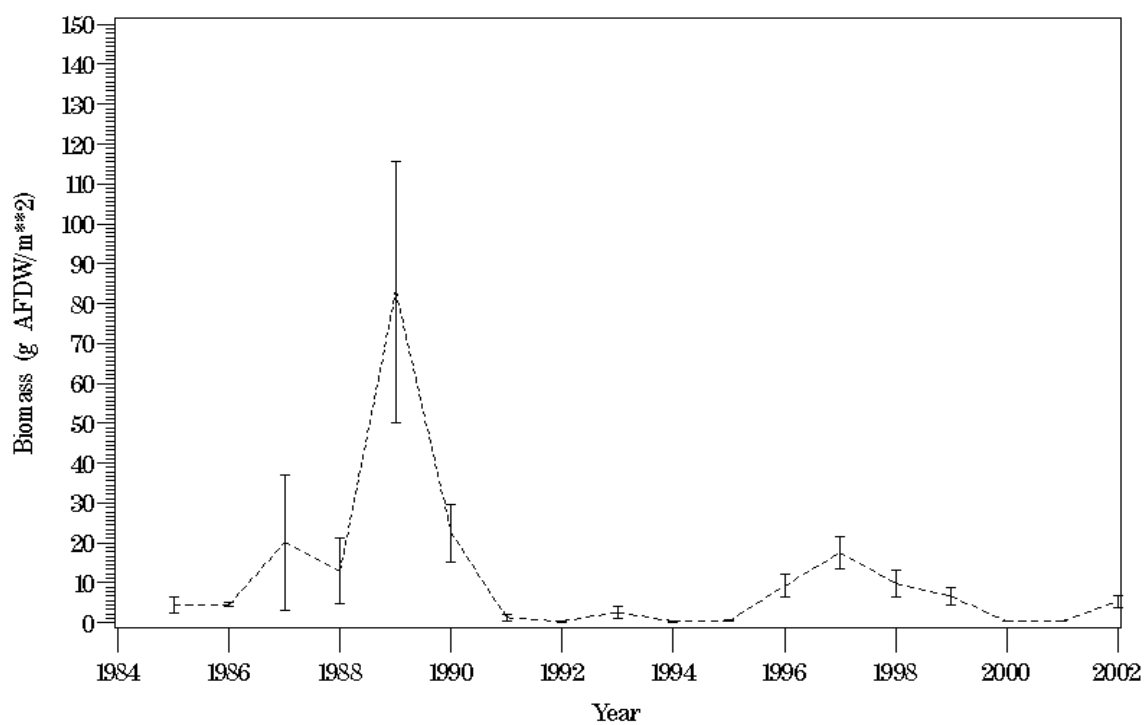


Figure P98. Plot of total benthic community biomass at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

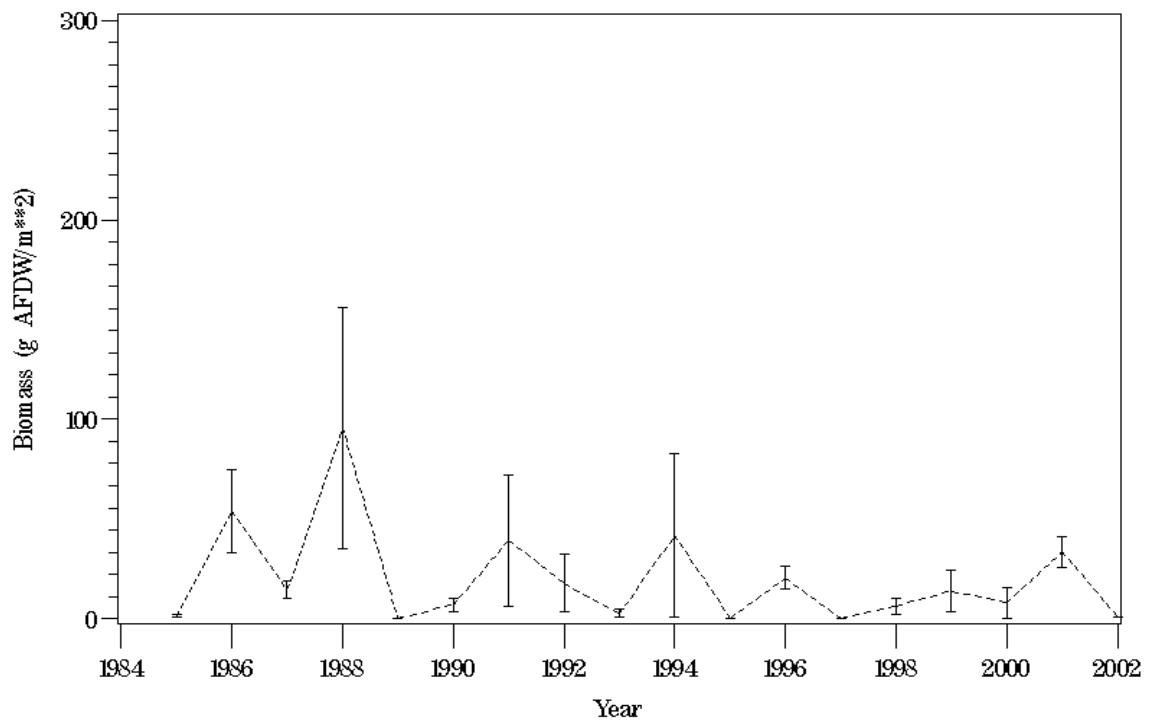


Figure P99. Plot of total benthic community biomass at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

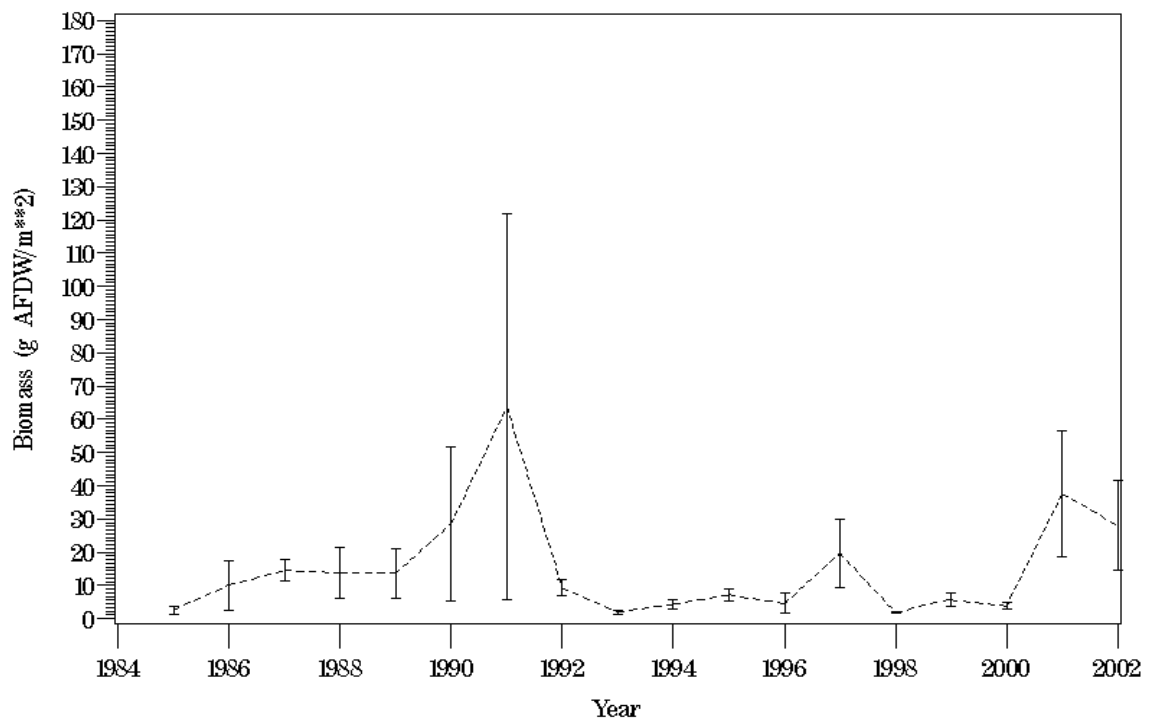


Figure P100. Plot of total benthic community biomass at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

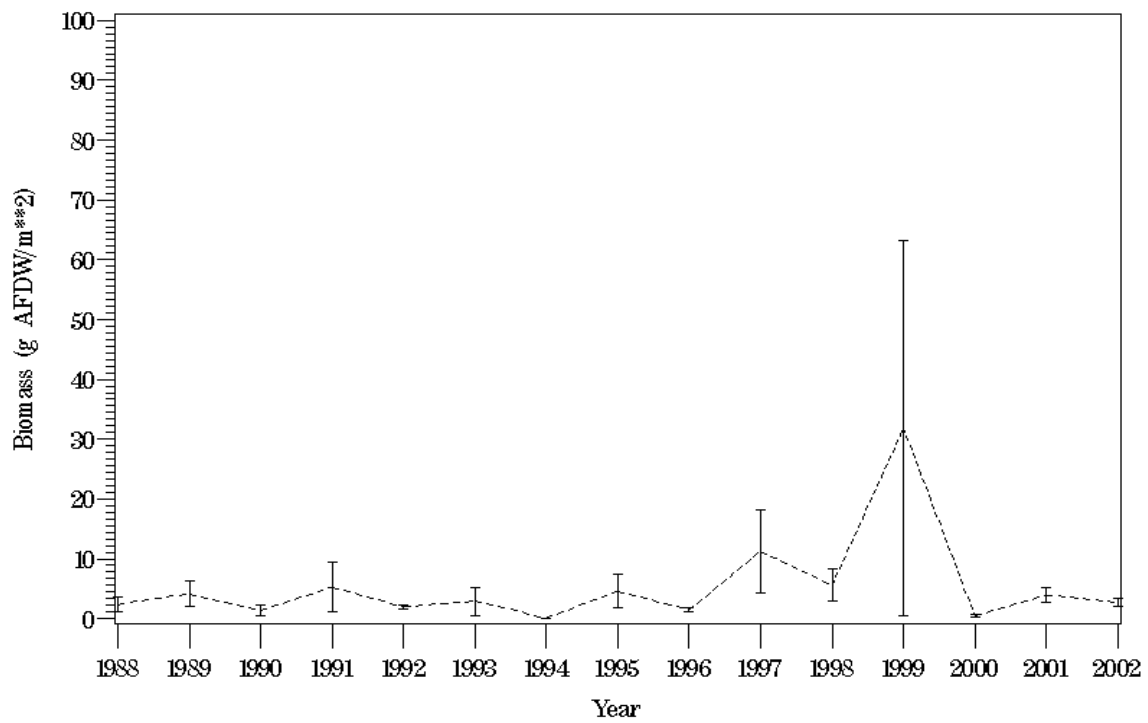


Figure P101. Plot of total benthic community biomass at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

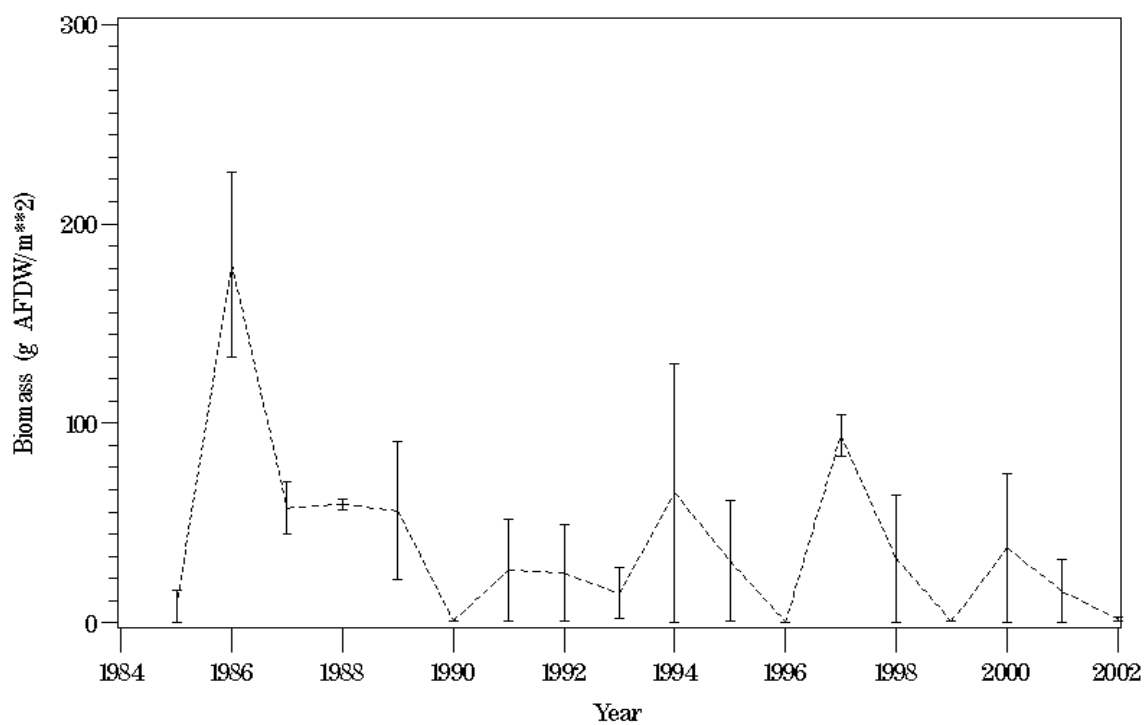


Figure P102. Plot of total benthic community biomass at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

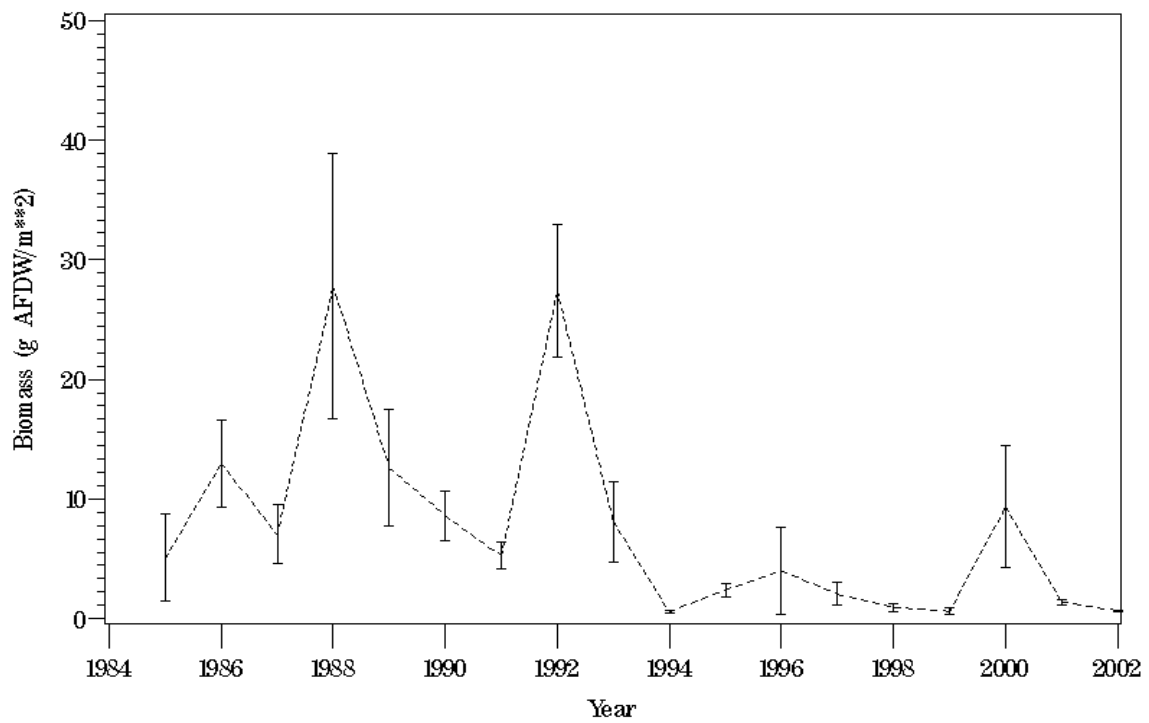


Figure P103. Plot of total benthic community biomass at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

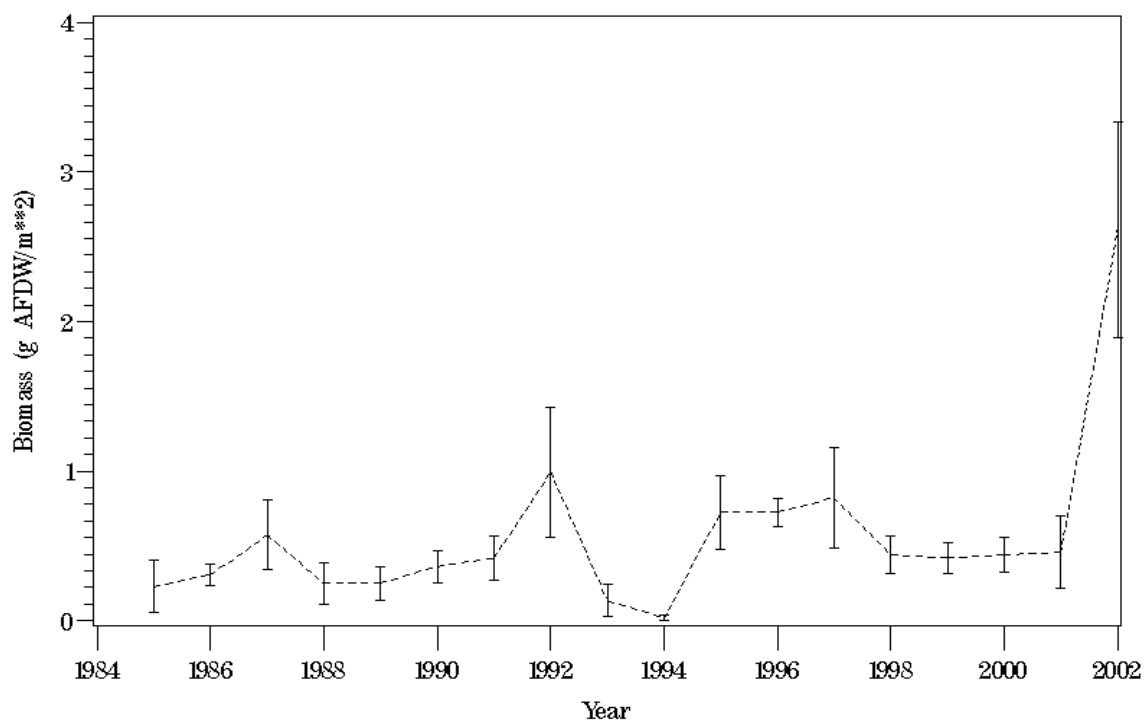


Figure P104. Plot of total benthic community biomass at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

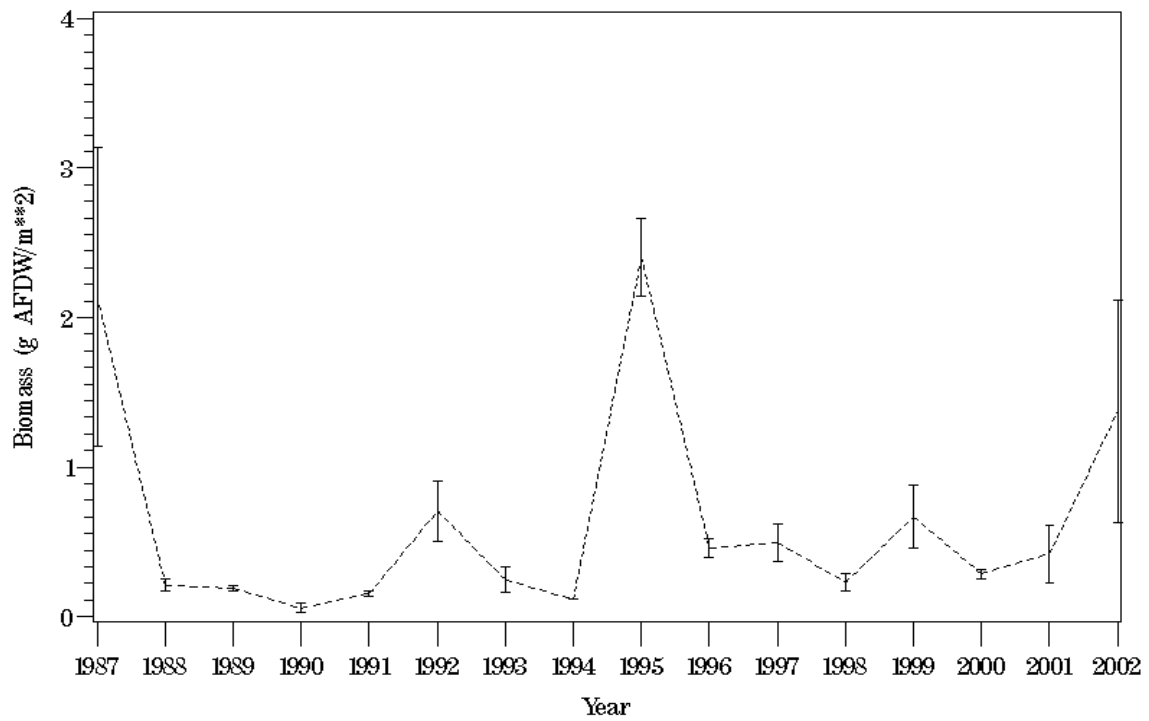


Figure P105. Plot of total benthic community biomass at station LE3.4 for 1985 through 2002.

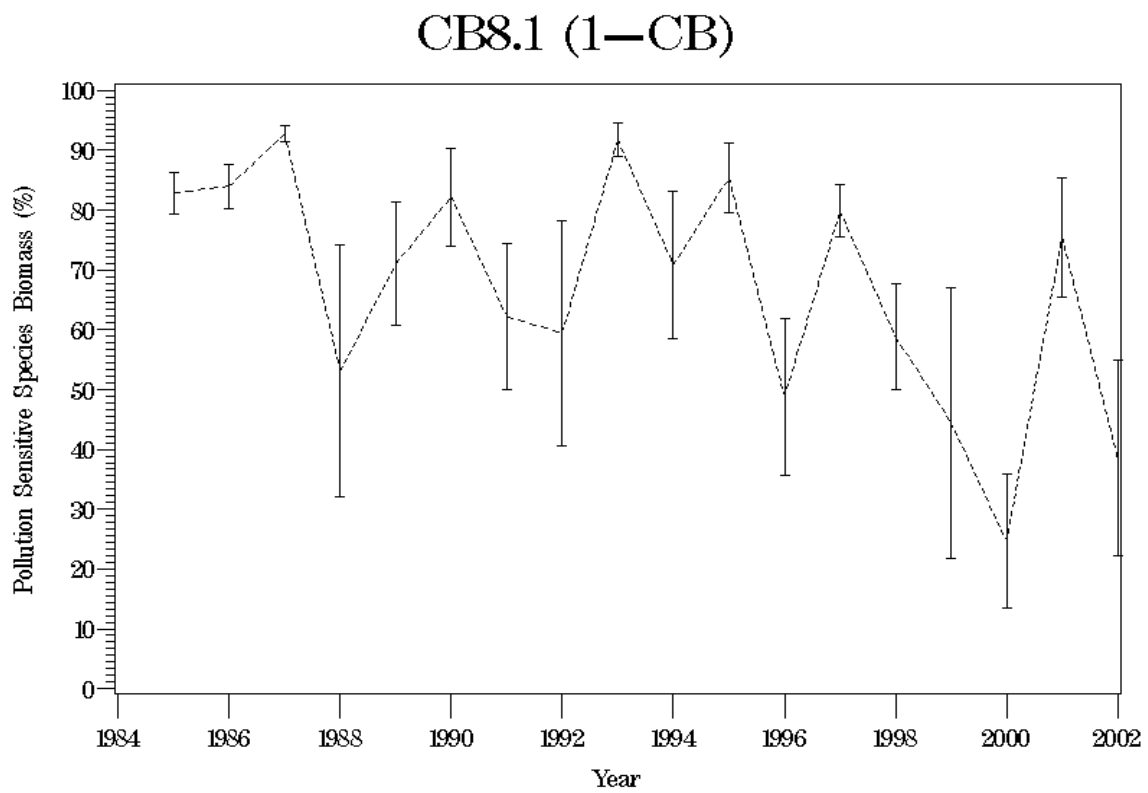


Figure P106. Plot of pollution sensitive species biomass at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

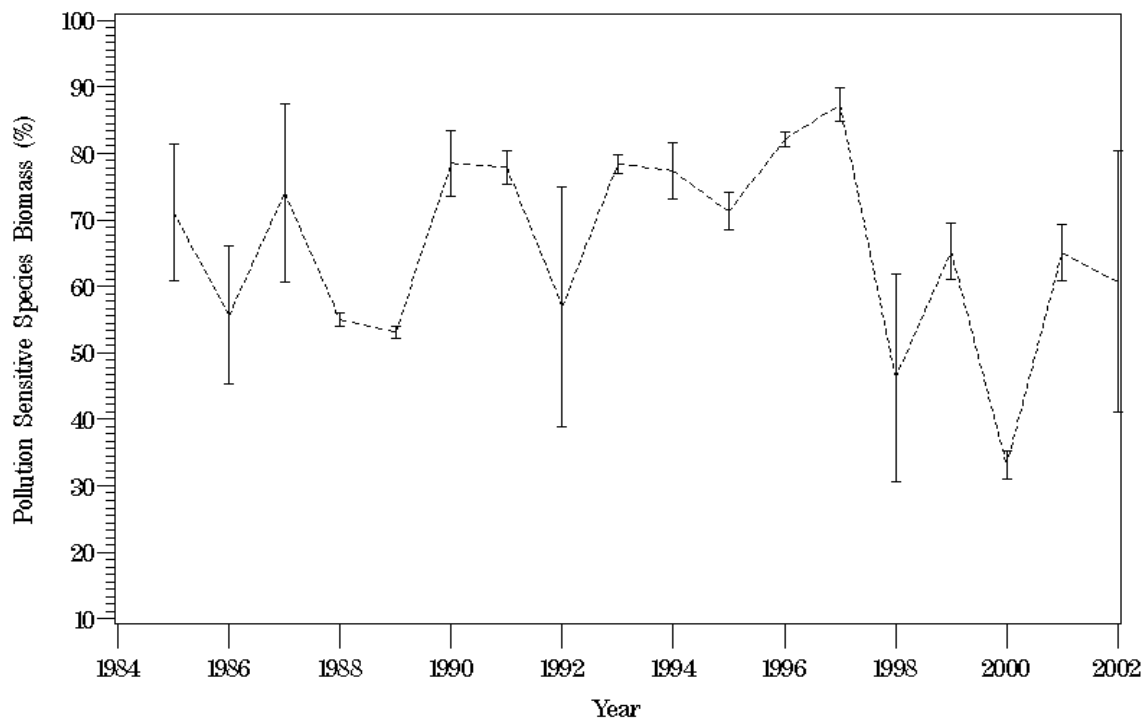


Figure P107. Plot of pollution sensitive species biomass at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

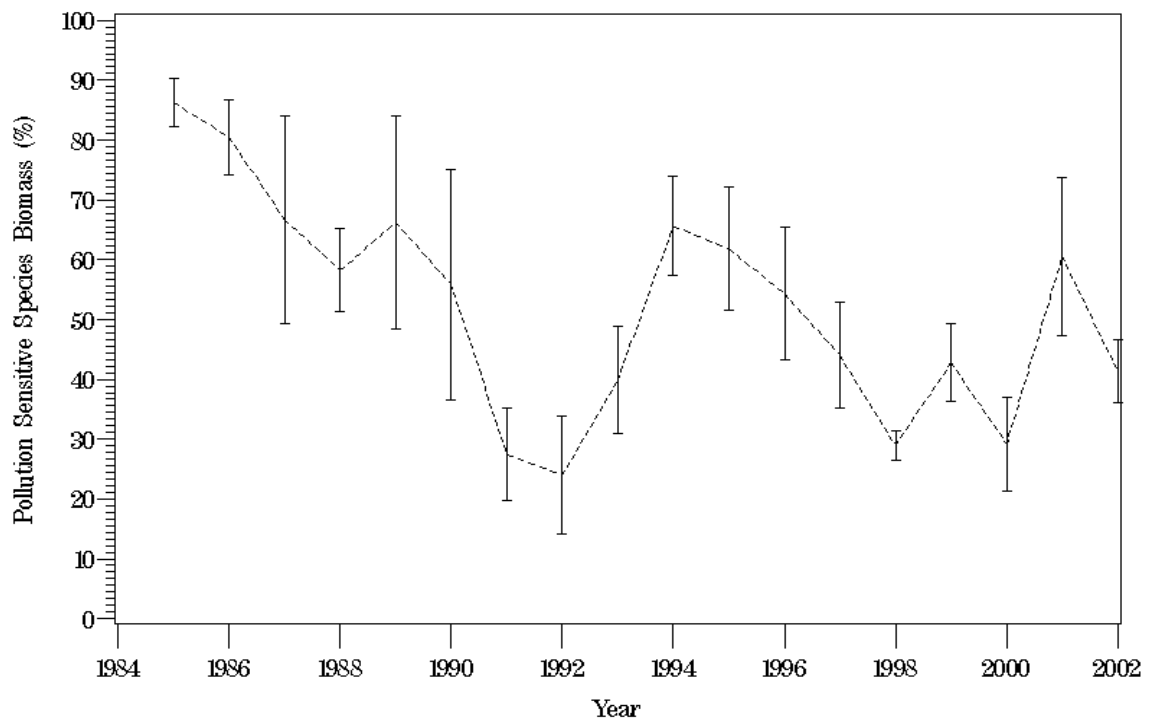


Figure P108. Plot of pollution sensitive species biomass at station CB6.4 for 1985 through 2002.

CB6.1 (4—CB)

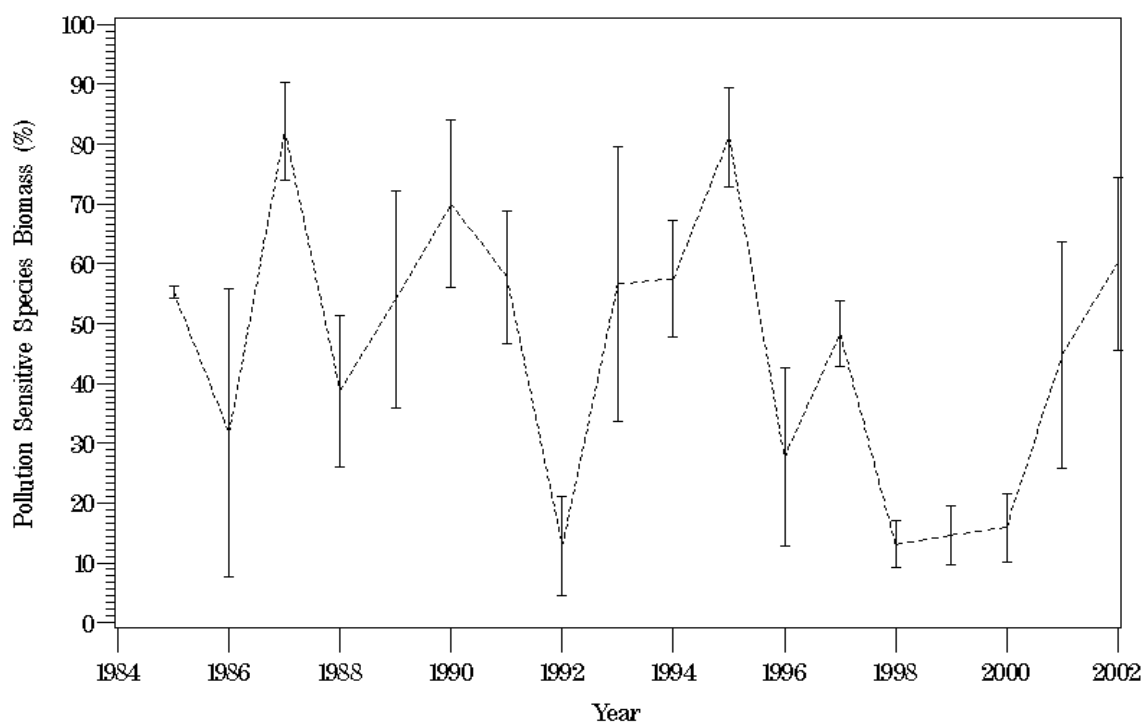


Figure P109. Plot of pollution sensitive species biomass at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

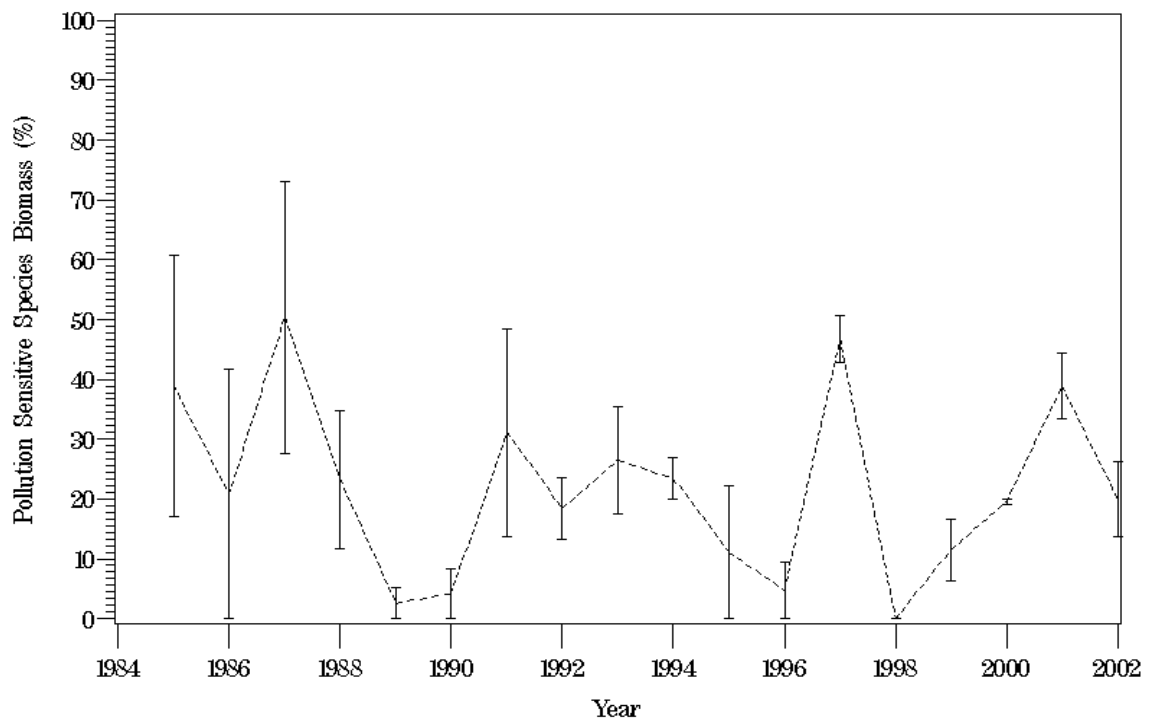


Figure P110. Plot of pollution sensitive species biomass at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

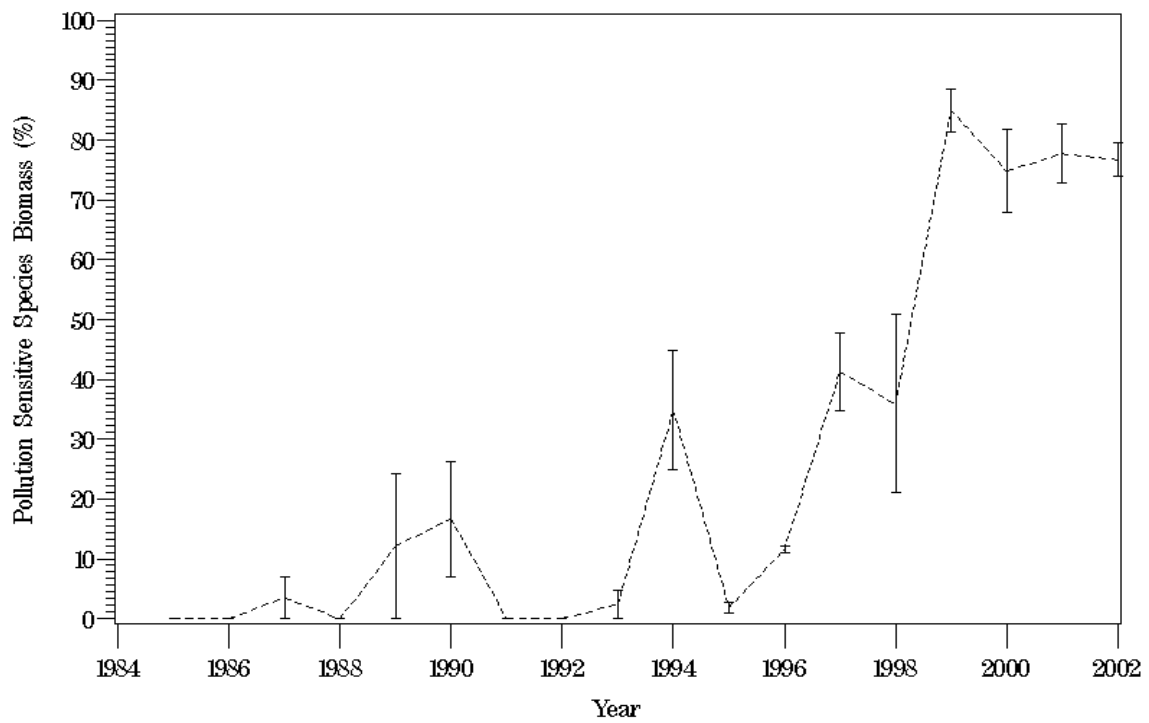


Figure P111. Plot of pollution sensitive species biomass at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

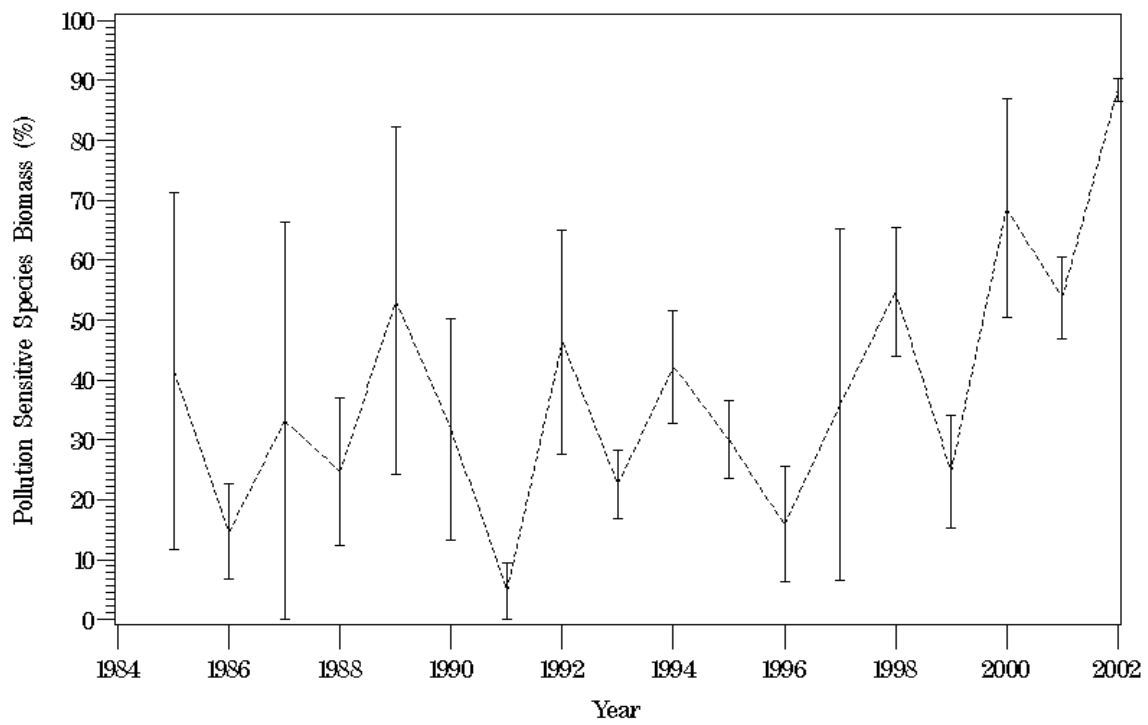


Figure P112. Plot of pollution sensitive species biomass at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

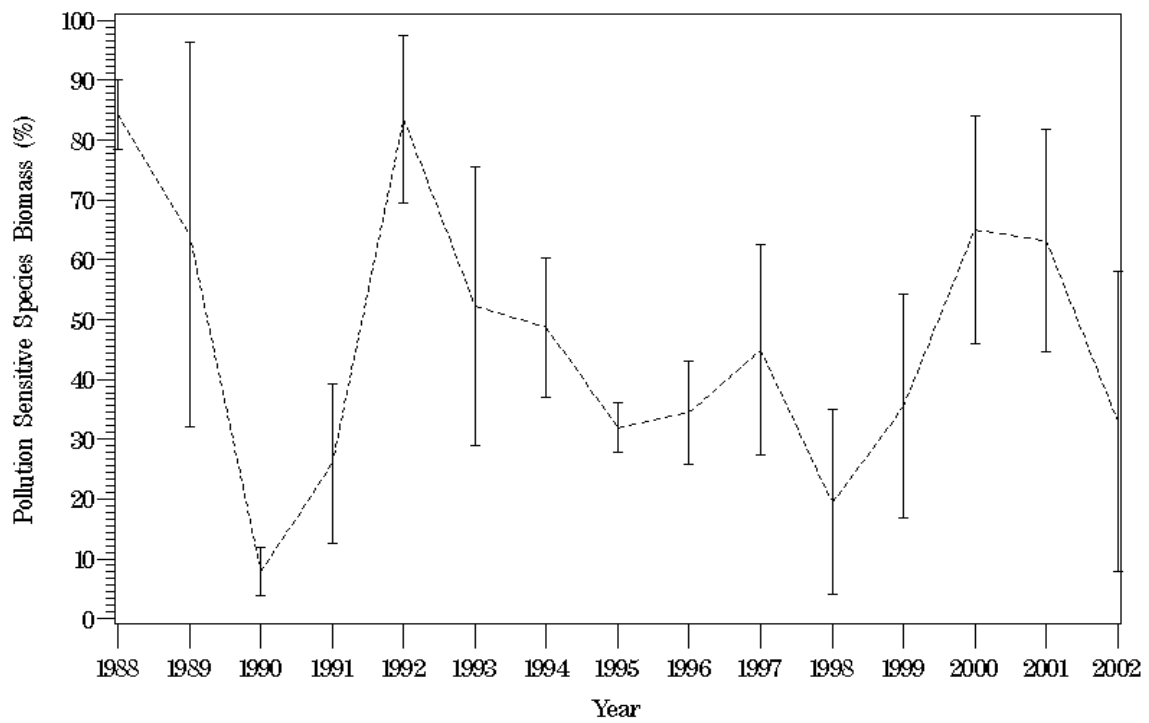


Figure P113. Plot of pollution sensitive species biomass at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

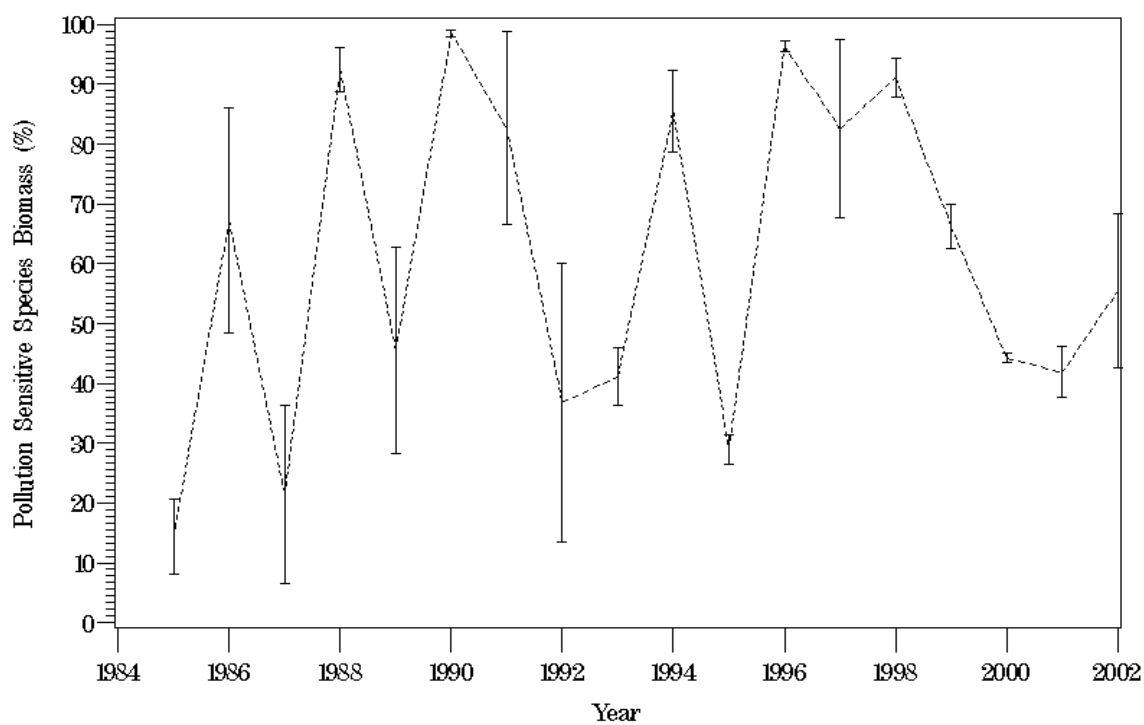


Figure P114. Plot of pollution sensitive species biomass at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

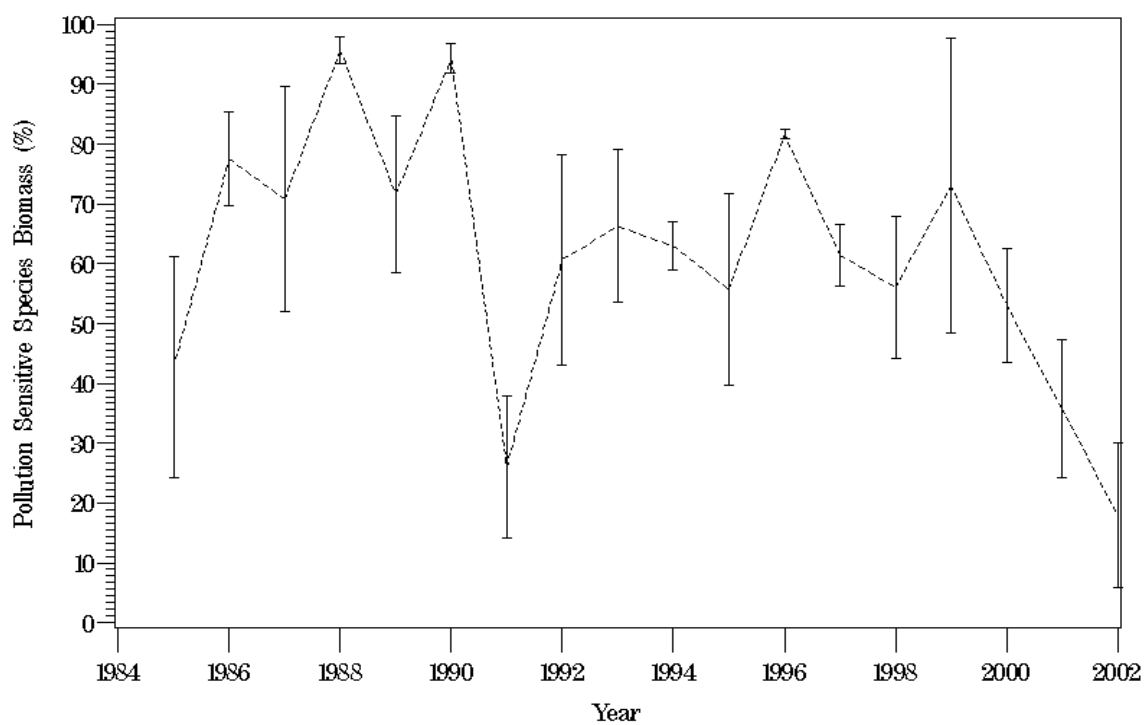


Figure P115. Plot of pollution sensitive species biomass at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

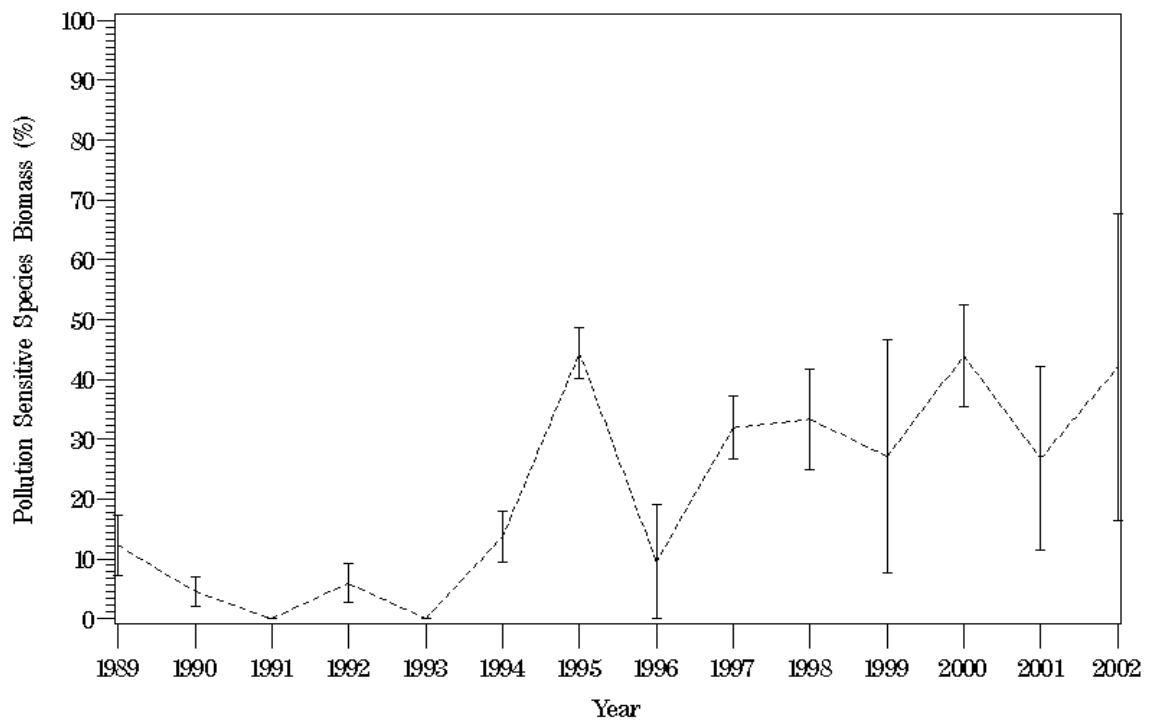


Figure P116. Plot of pollution sensitive species biomass at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

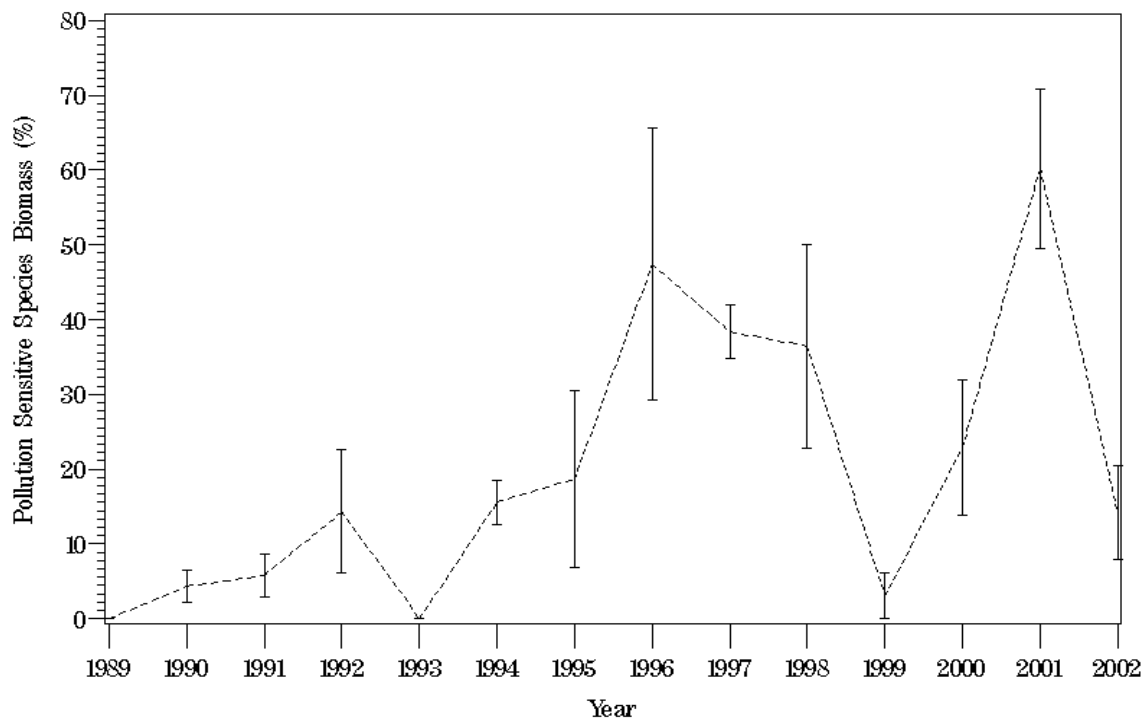


Figure P117. Plot of pollution sensitive species biomass at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

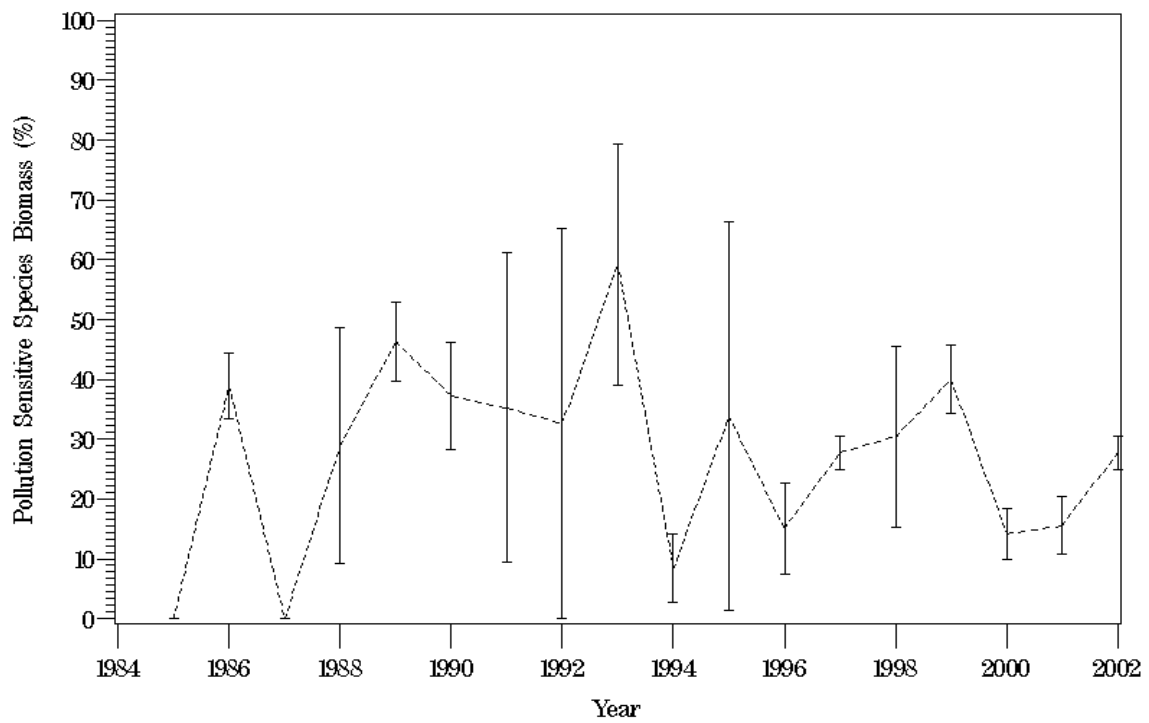


Figure P118. Plot of pollution sensitive species biomass at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

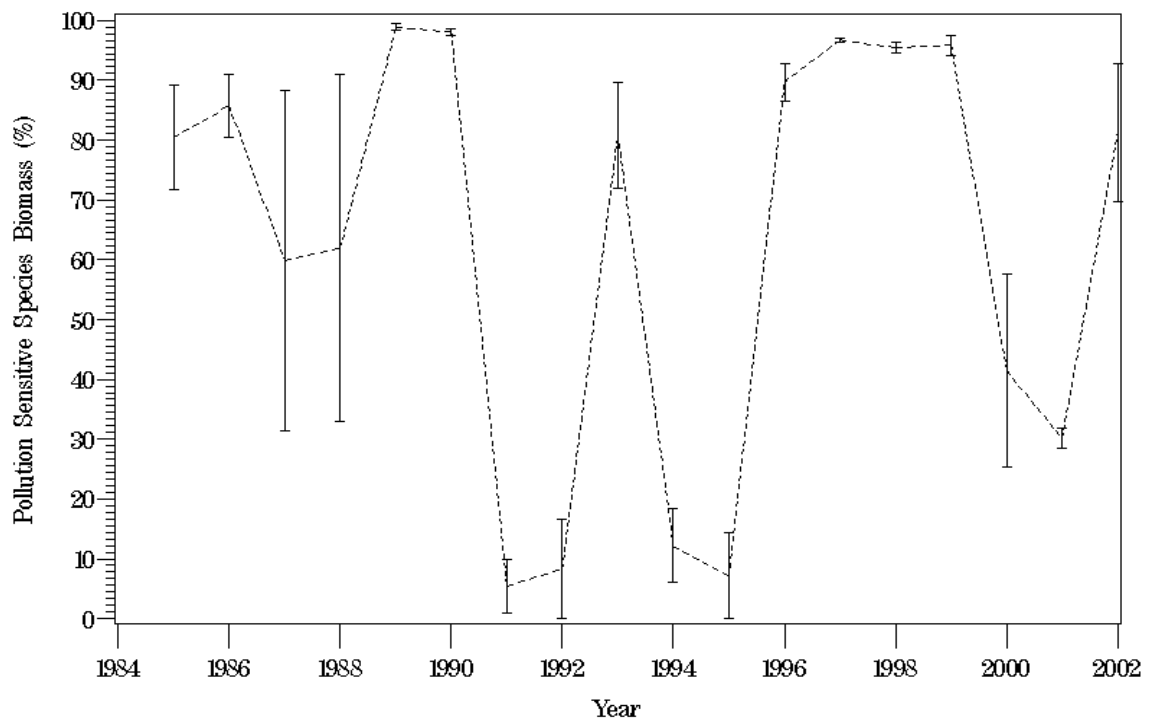


Figure P119. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

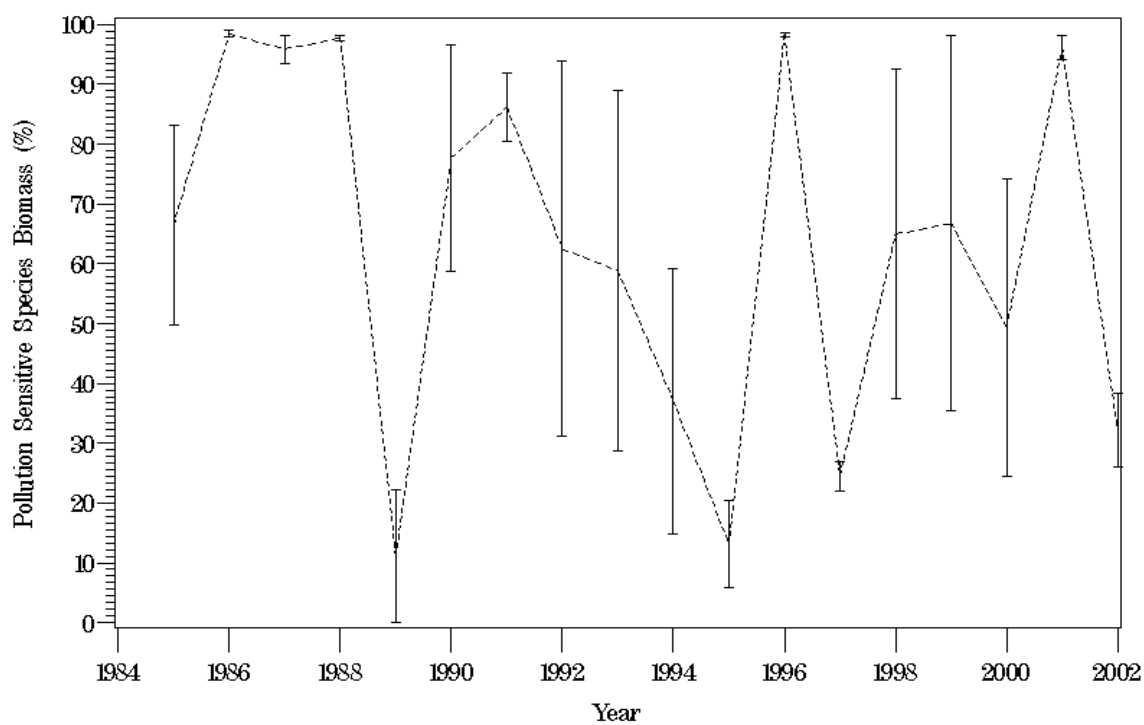


Figure P120. Plot of pollution sensitive species biomass at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

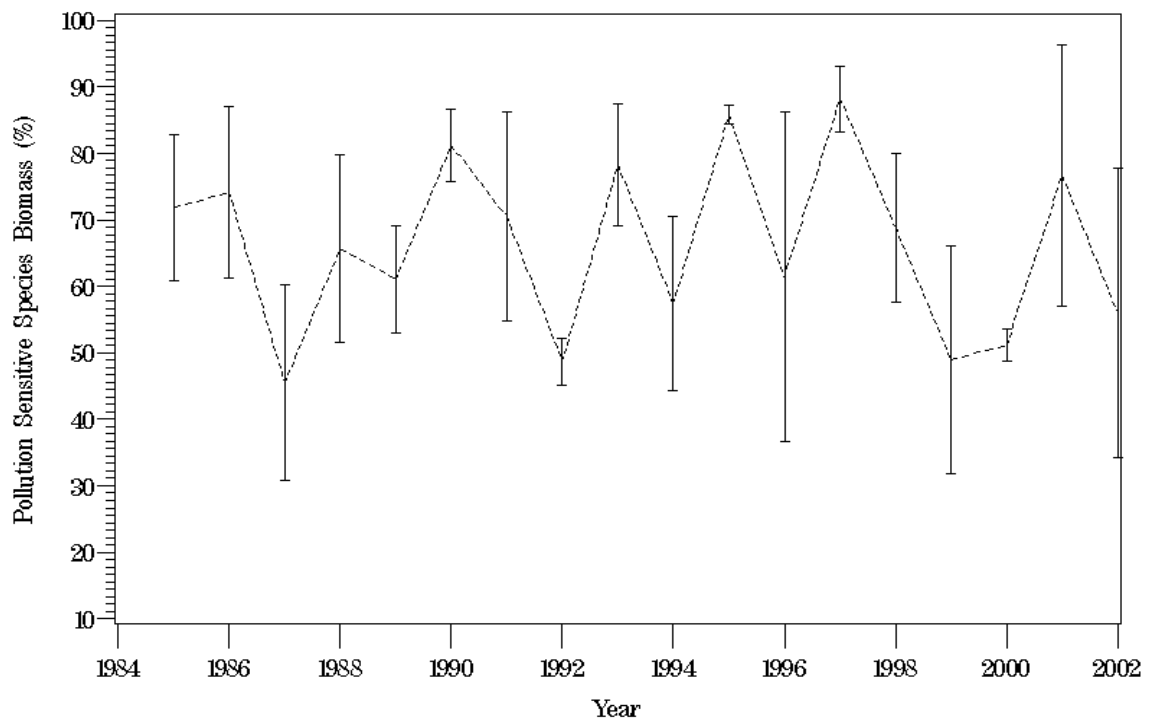


Figure P121. Plot of pollution sensitive species biomass at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

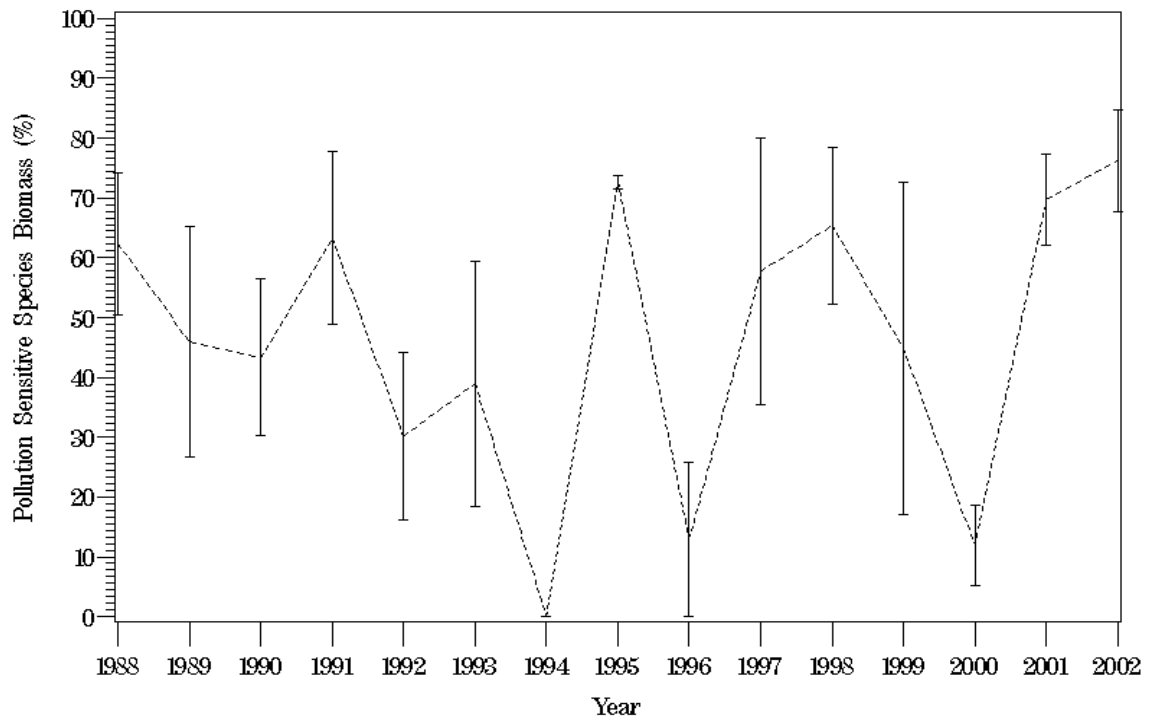


Figure P122. Plot of pollution sensitive species biomass at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

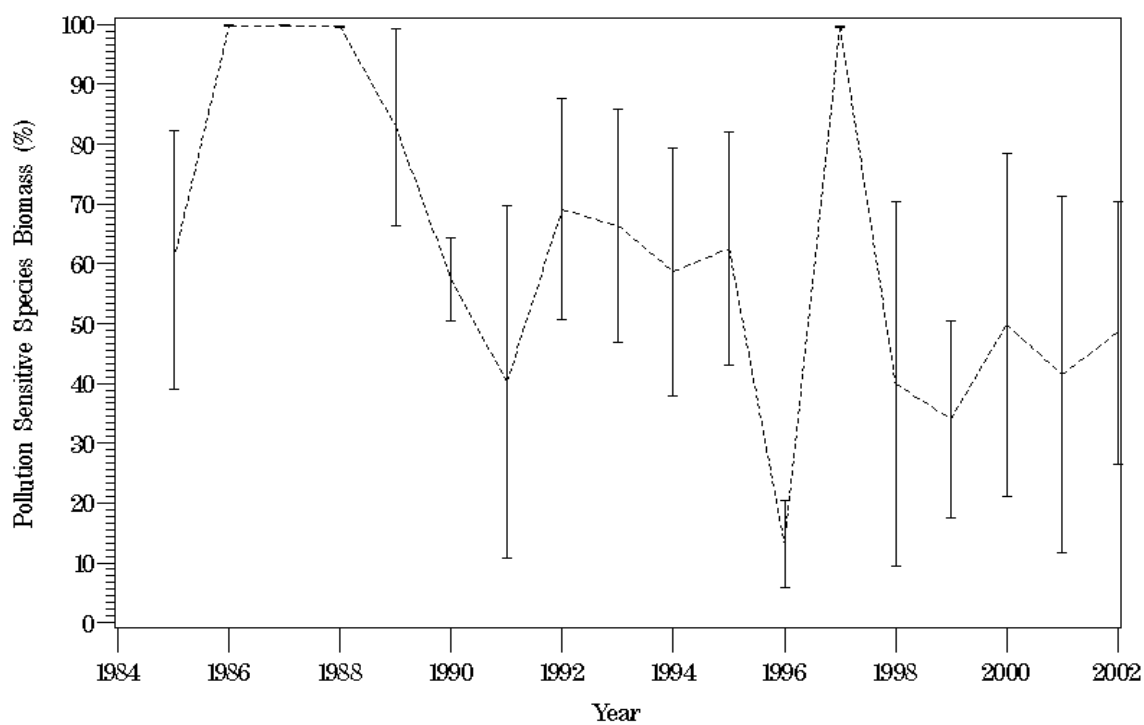


Figure P123. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

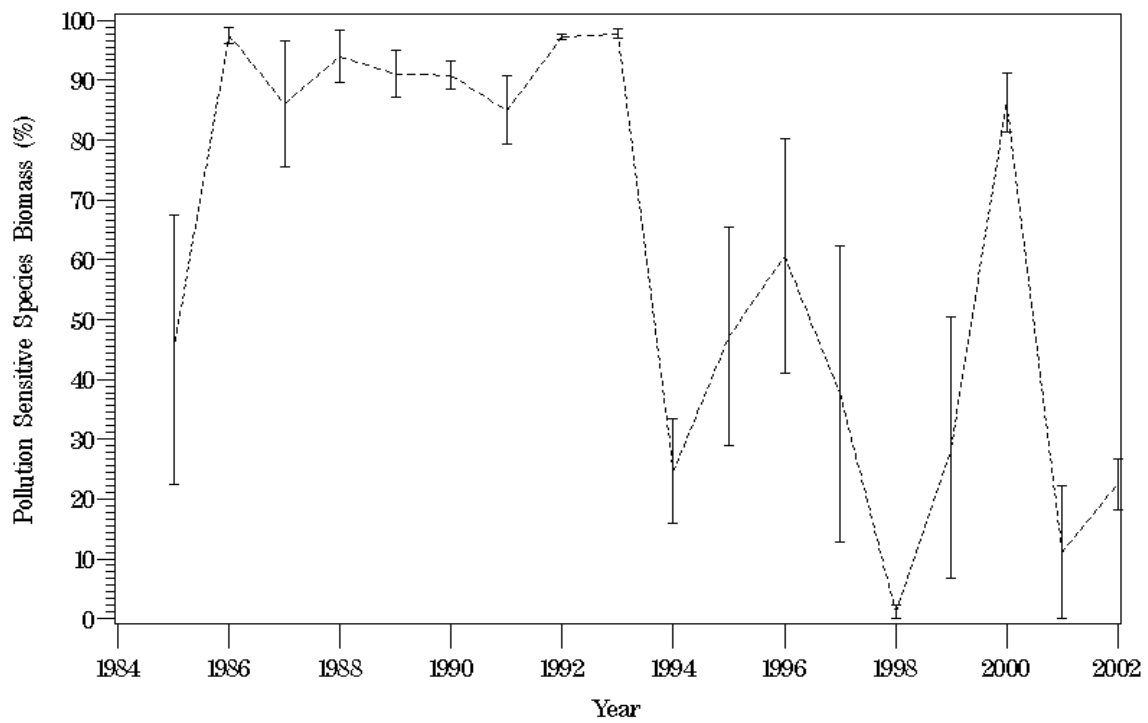


Figure P124. Plot of pollution sensitive species biomass at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

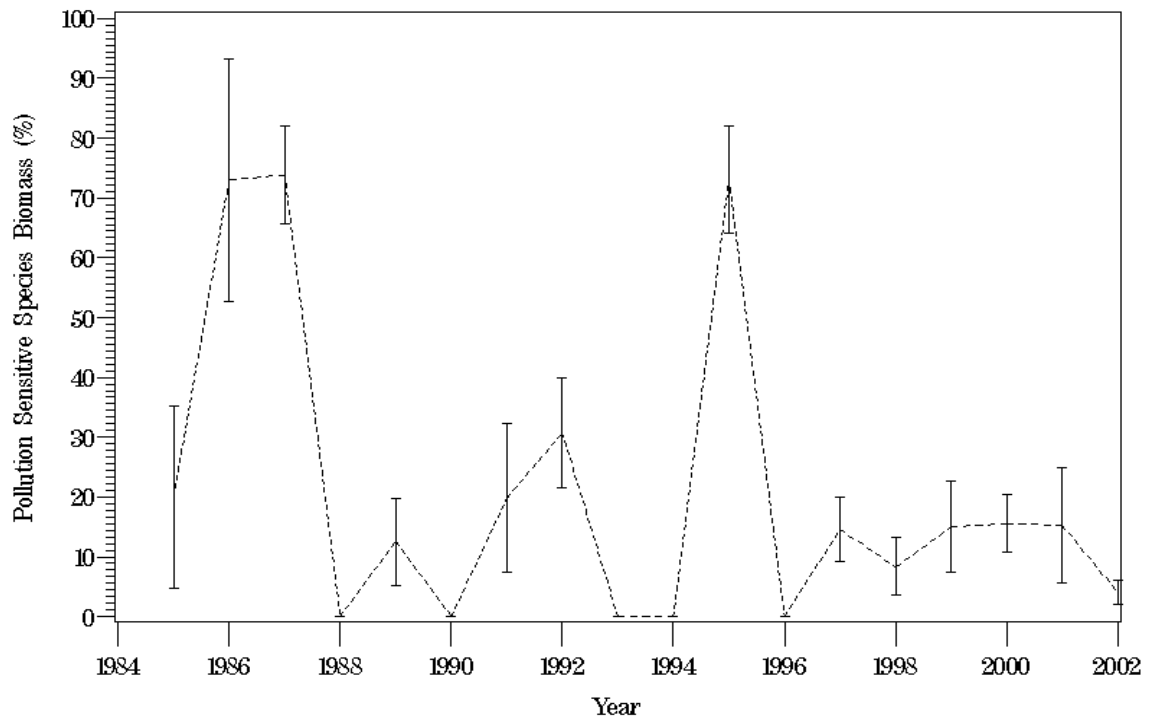


Figure P125. Plot of pollution sensitive species biomass at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

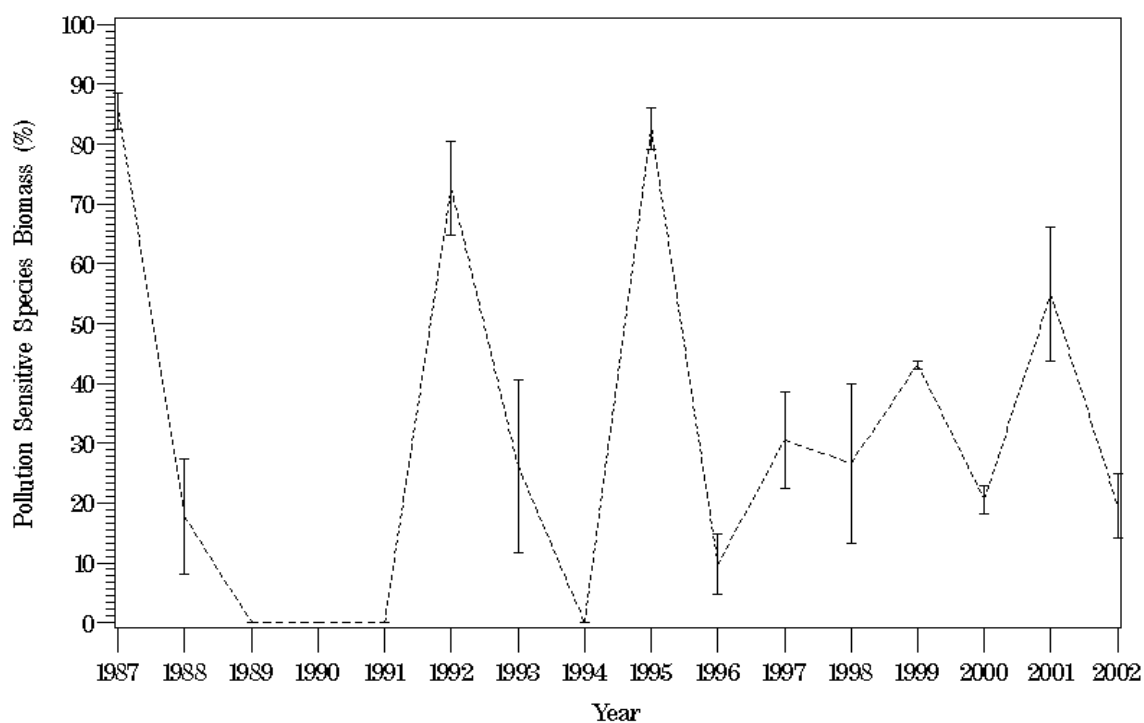


Figure P126. Plot of pollution sensitive species biomass at station LE3.4 for 1985 through 2002.

CB8.1 (1-CB)

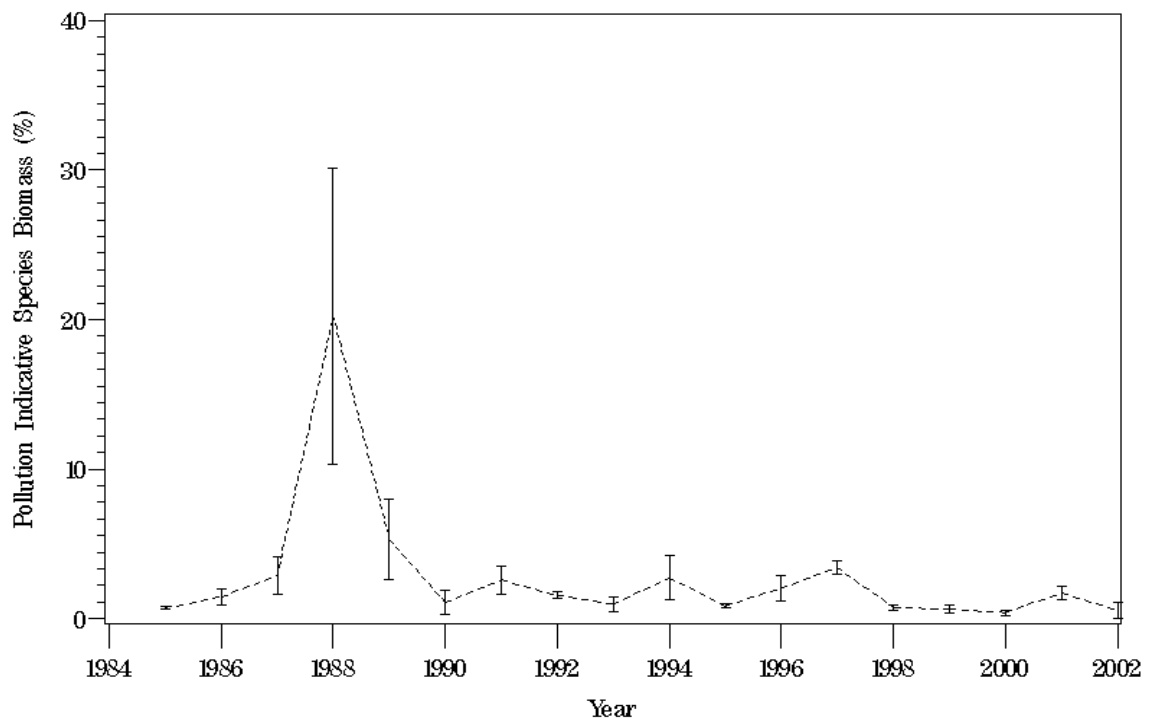


Figure P127. Plot of pollution indicative species biomass at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

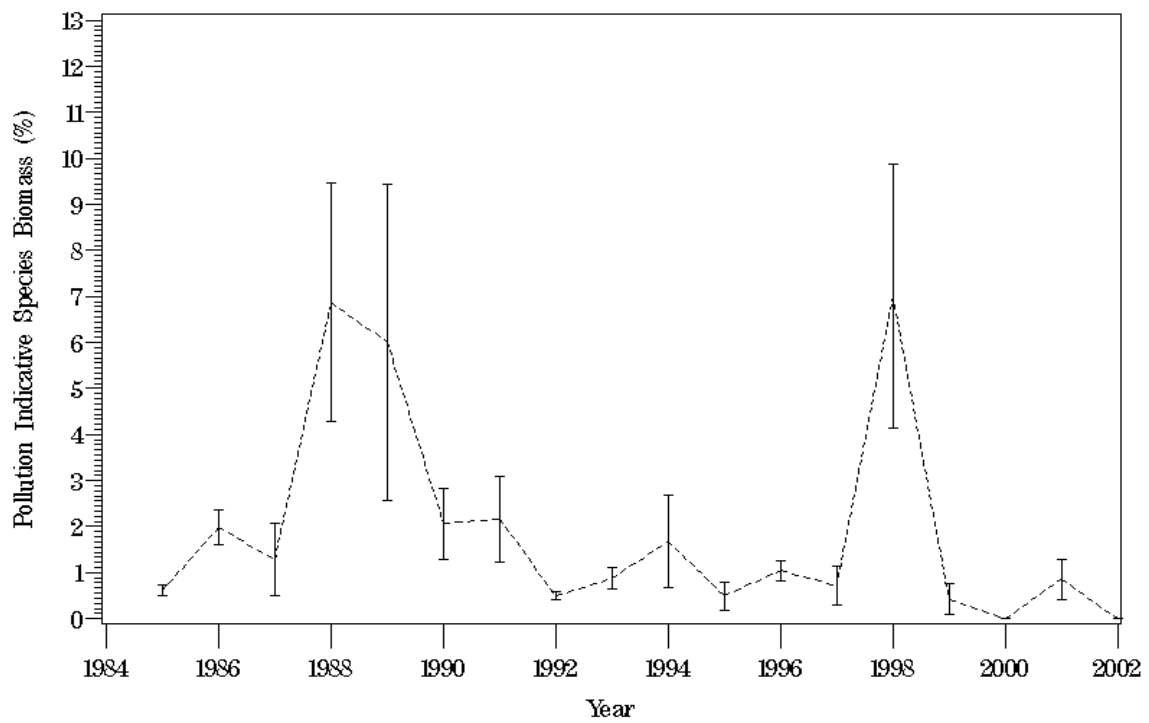


Figure P128. Plot of pollution indicative species biomass at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

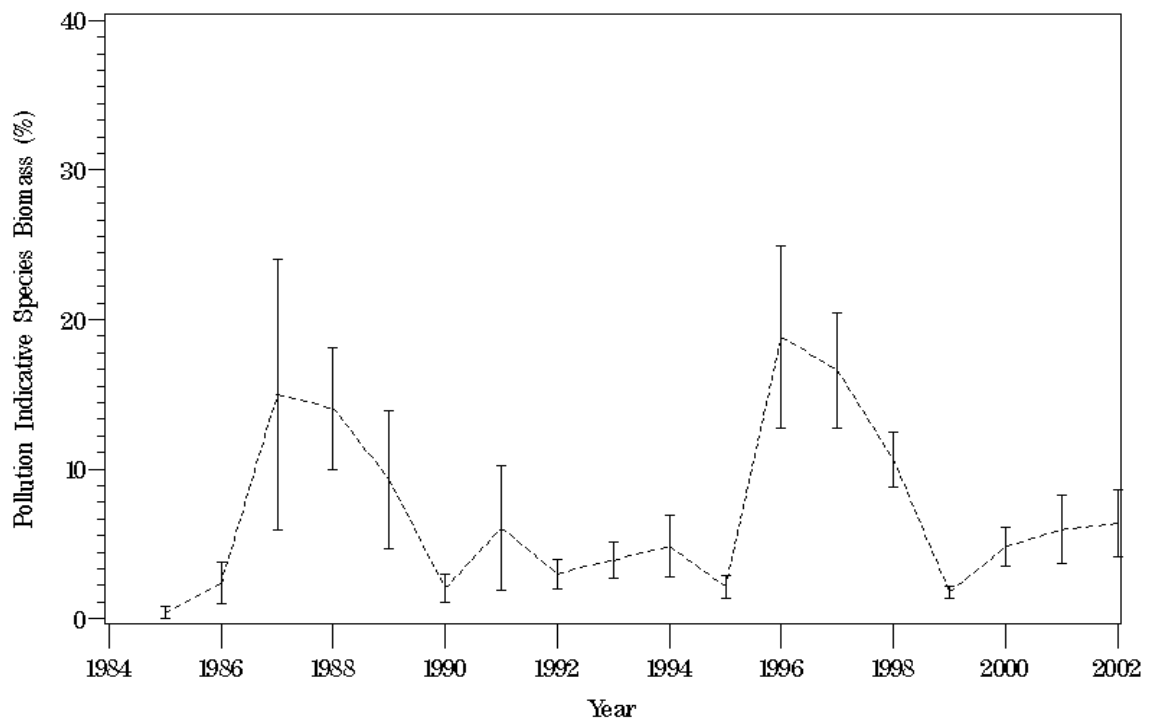


Figure P129. Plot of pollution indicative species biomass at station CB6.4 for 1985 through 2002.

CB6.1 (4-CB)

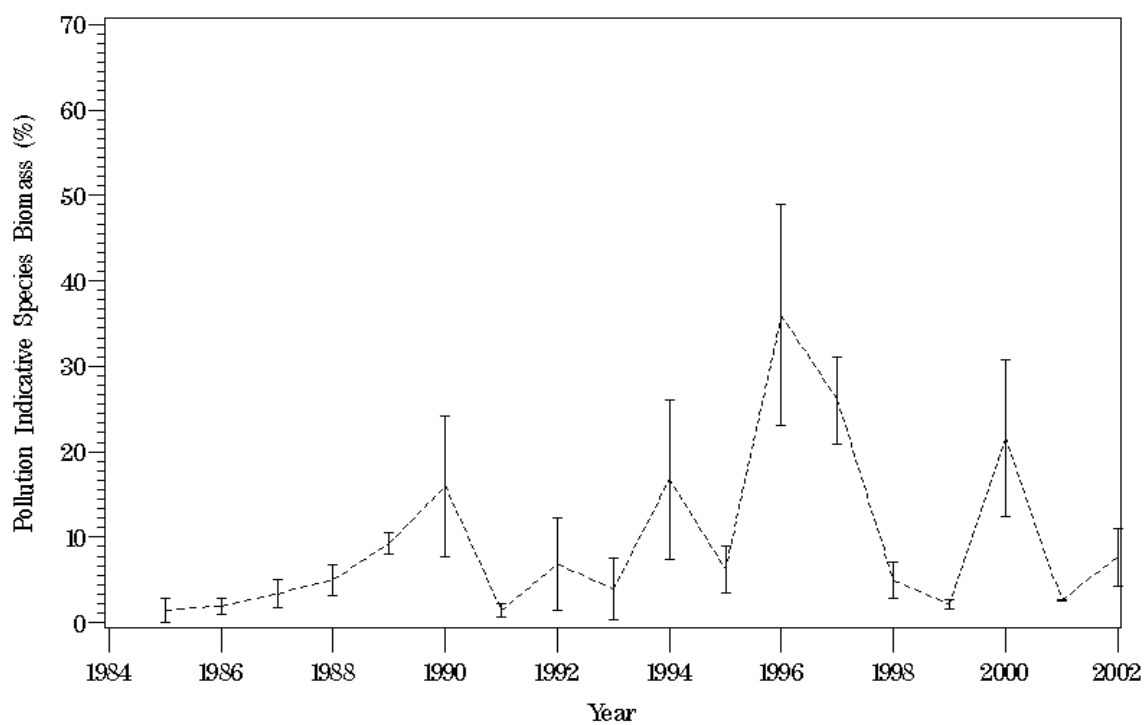


Figure P130. Plot of pollution indicative species biomass at station CB6.1 for 1985 through 2002.

CB5.4 (5—CB)

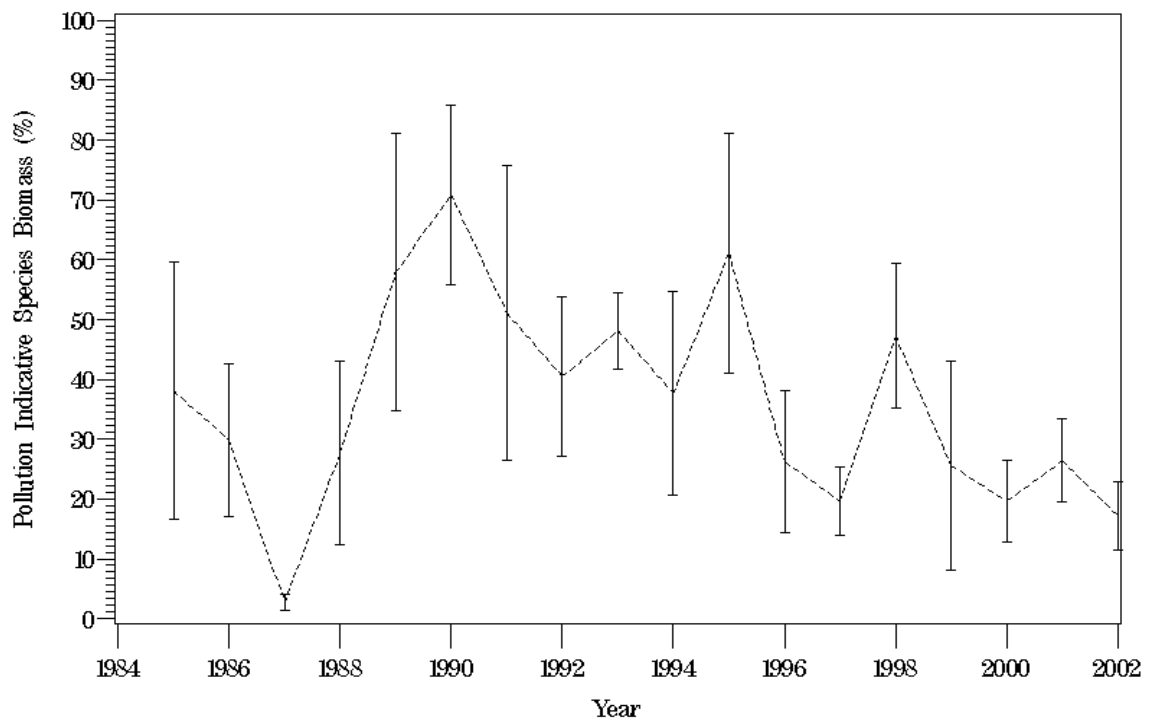


Figure P131. Plot of pollution indicative species biomass at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

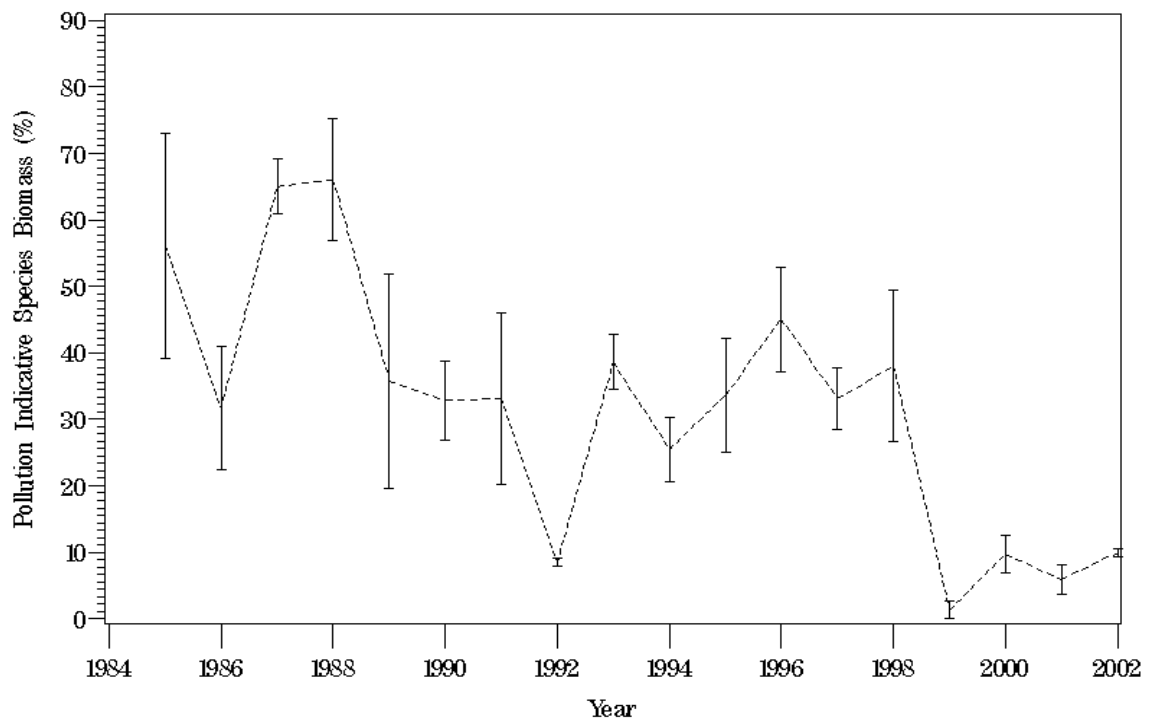


Figure P132. Plot of pollution indicative species biomass at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

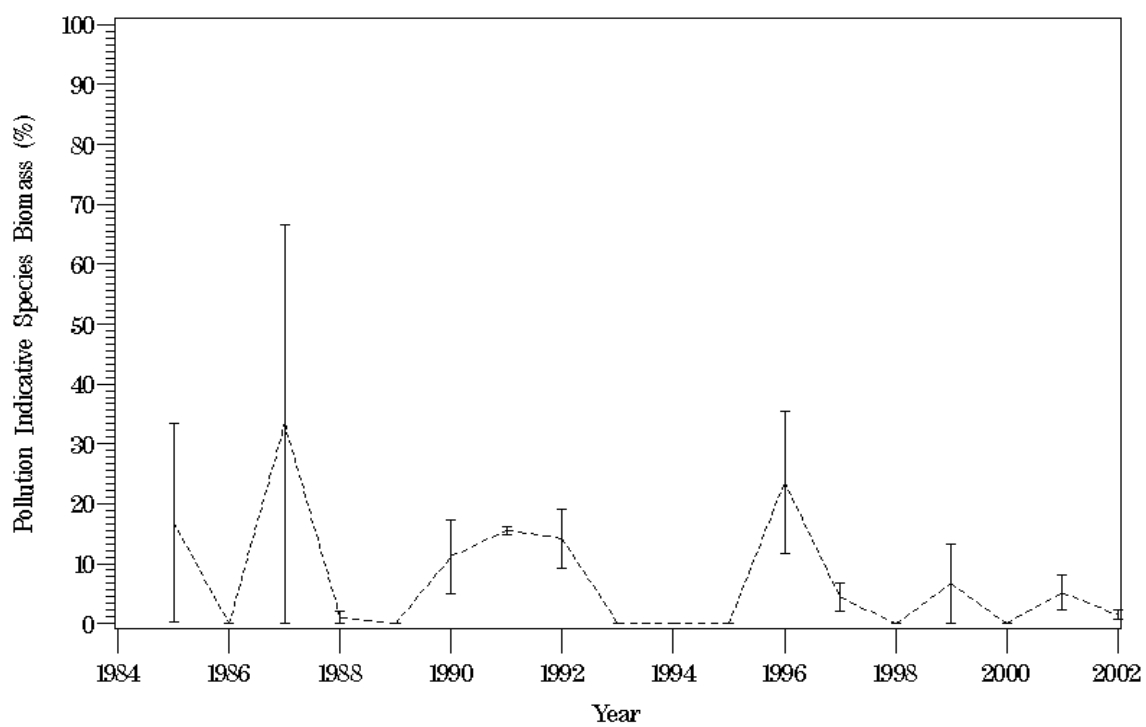


Figure P133. Plot of pollution indicative species biomass at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

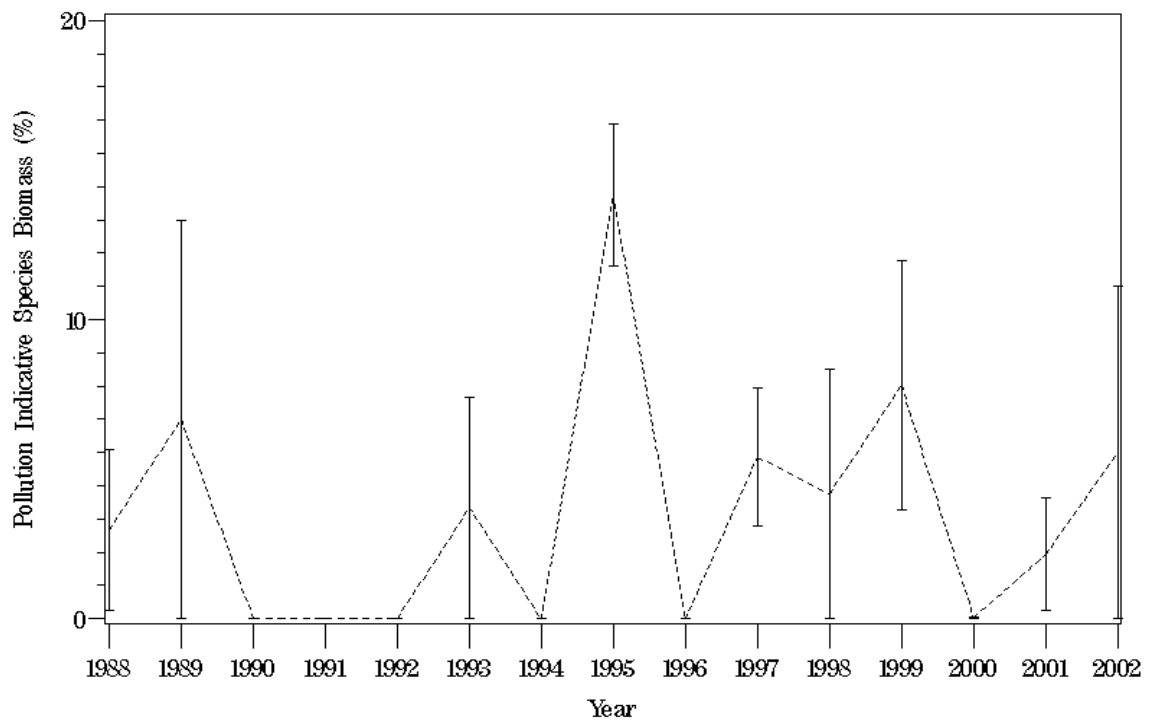


Figure P134. Plot of pollution indicative species biomass at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

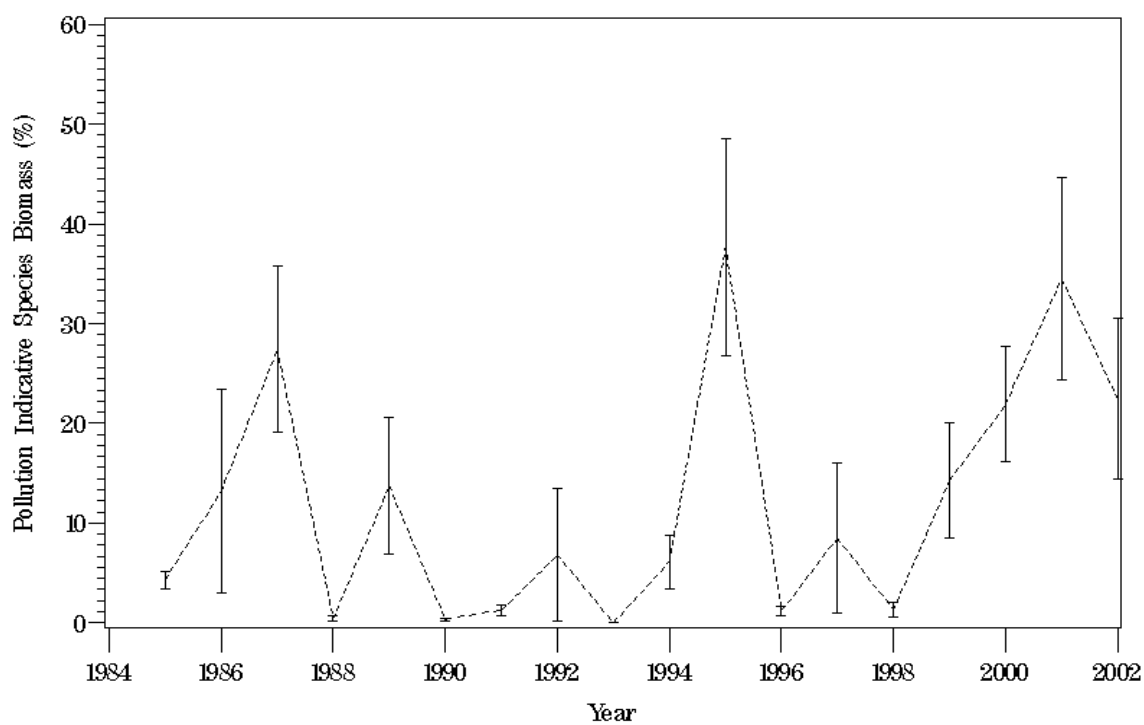


Figure P135. Plot of pollution indicative species biomass at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

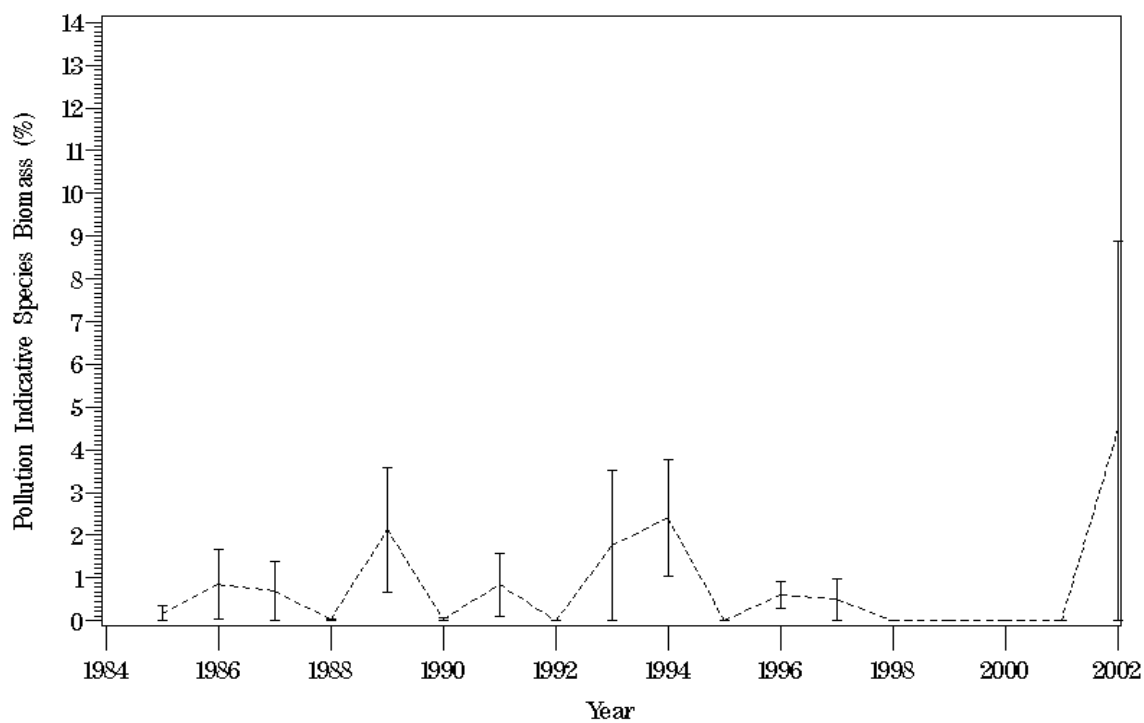


Figure P136. Plot of pollution indicative species biomass at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

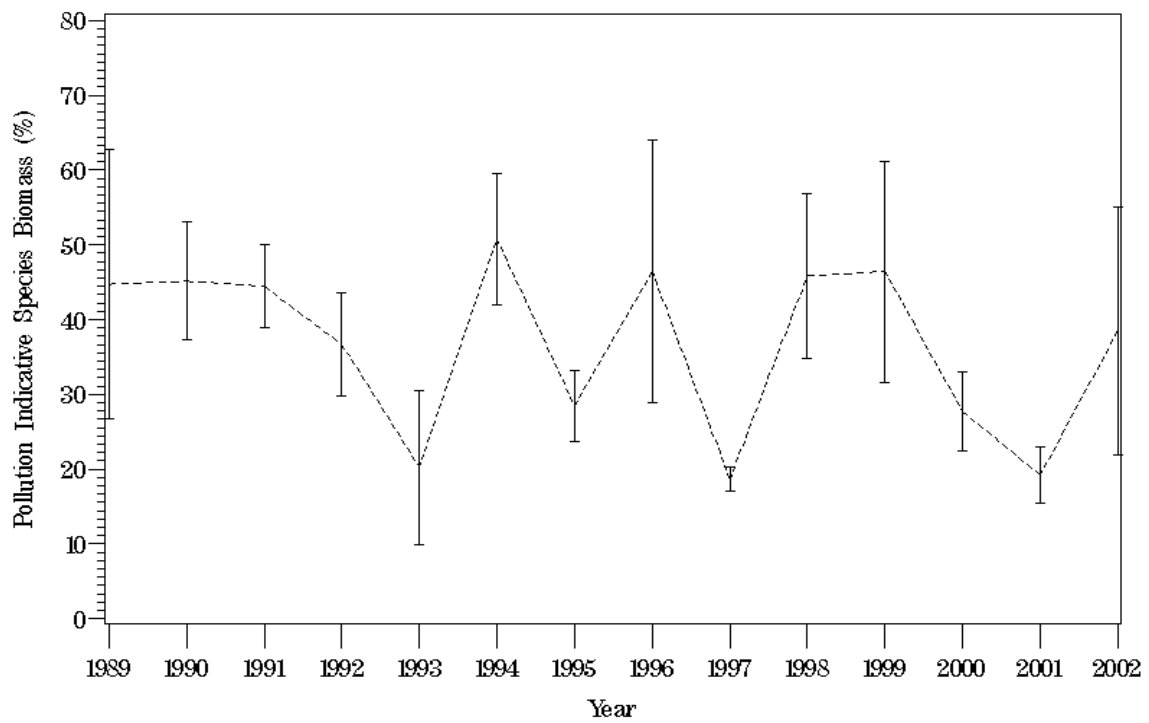


Figure P137. Plot of pollution indicative species biomass at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

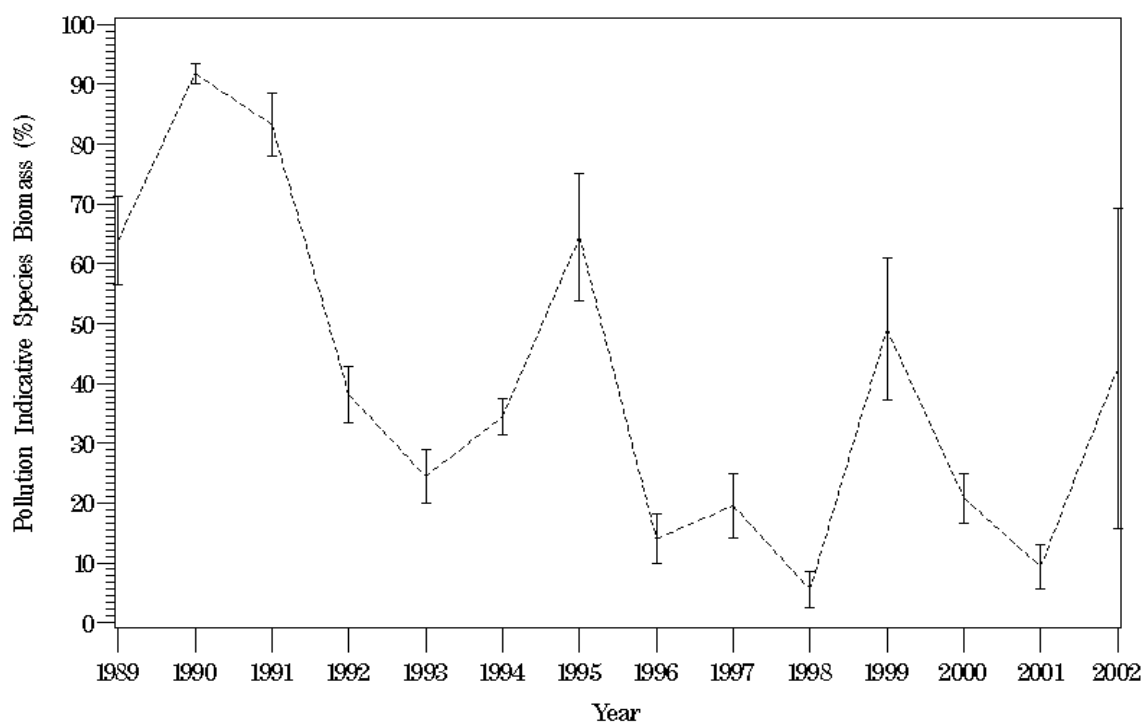


Figure P138. Plot of pollution indicative species biomass at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

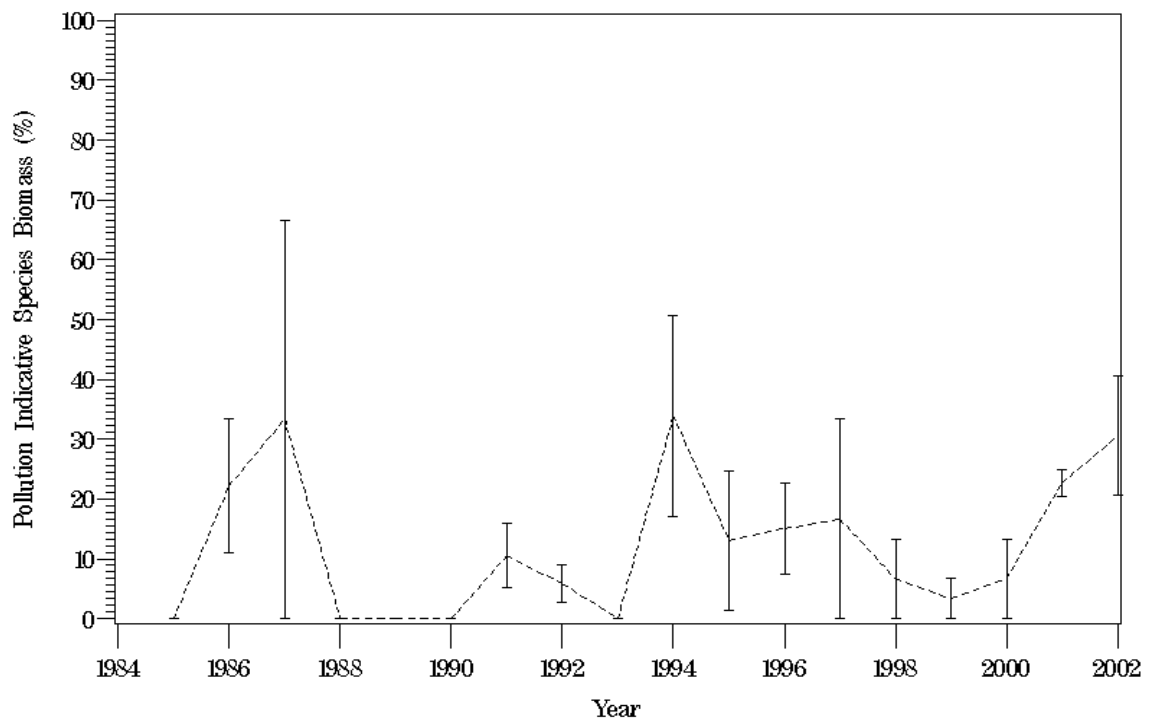


Figure P139. Plot of pollution indicative species biomass at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

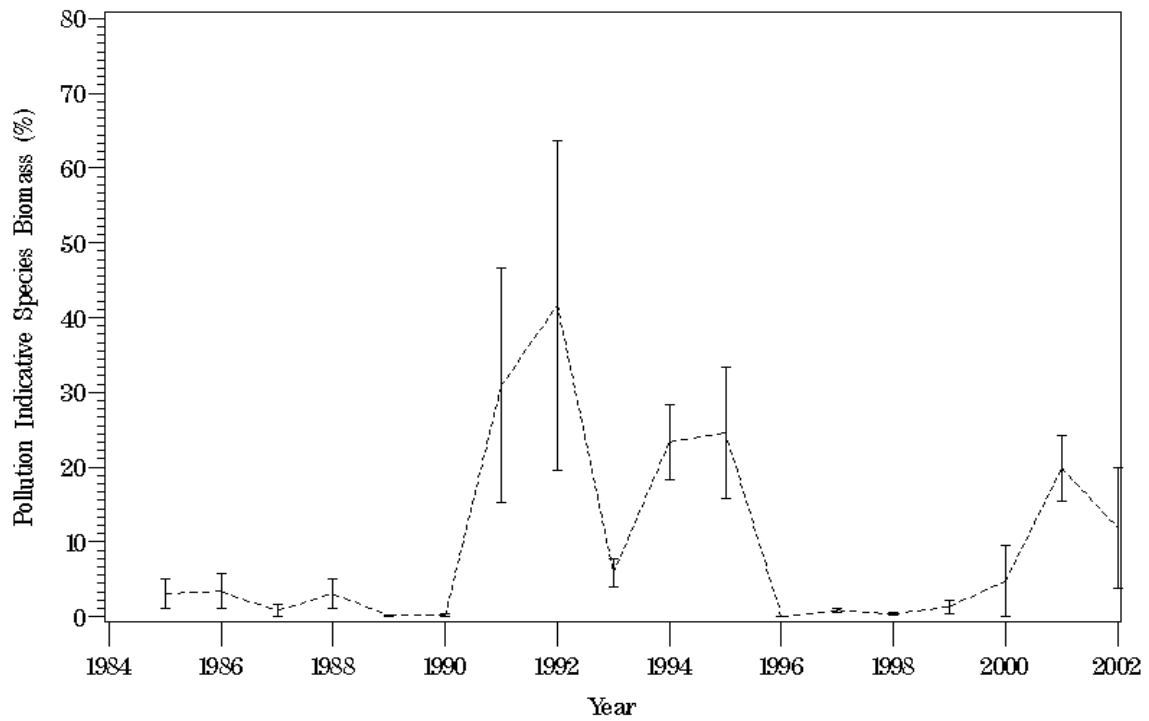


Figure P140. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

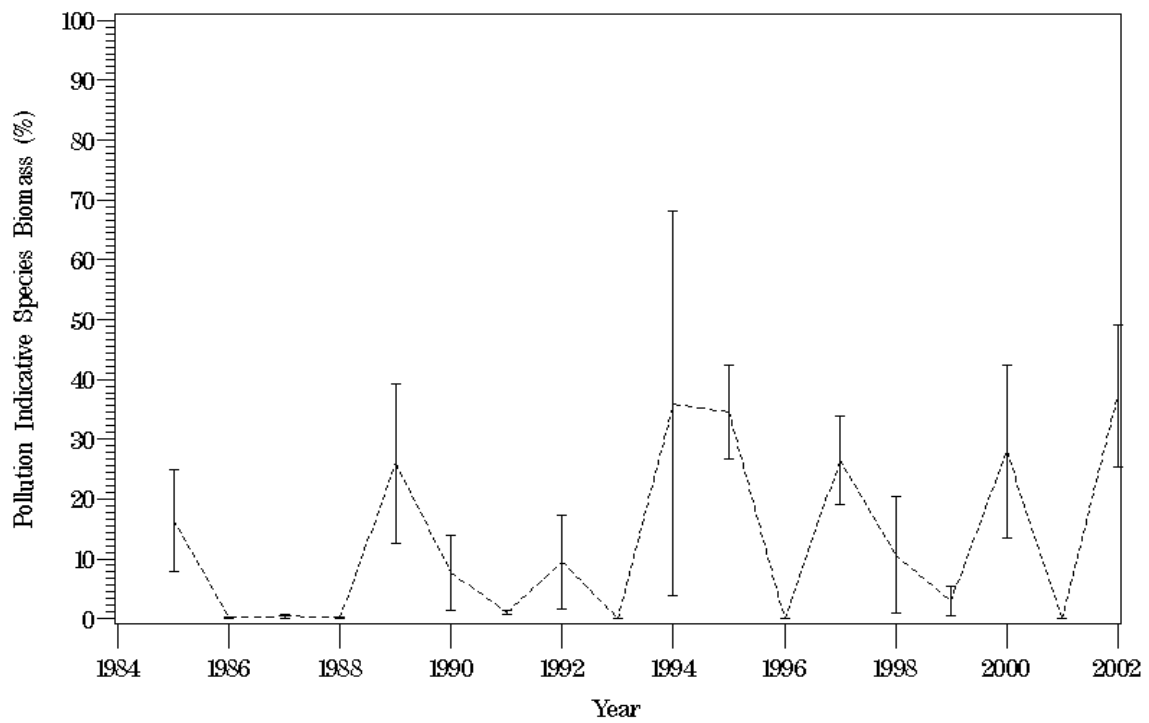


Figure P141. Plot of pollution indicative species biomass at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

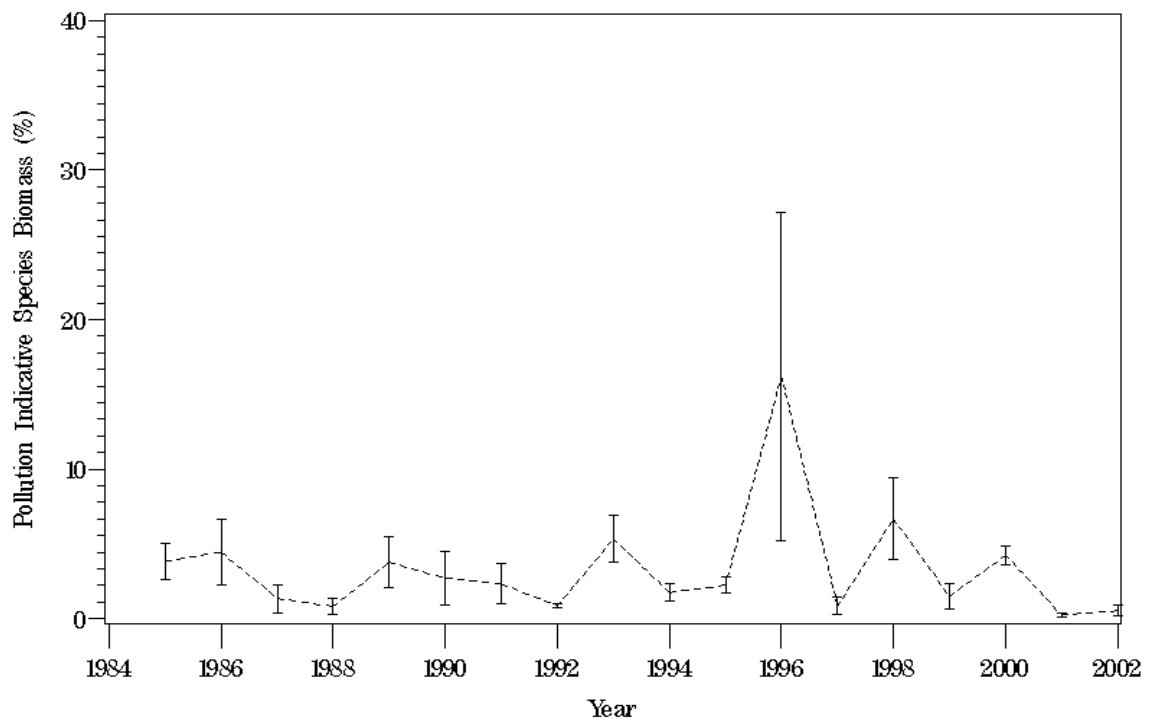


Figure P142. Plot of pollution indicative species biomass at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

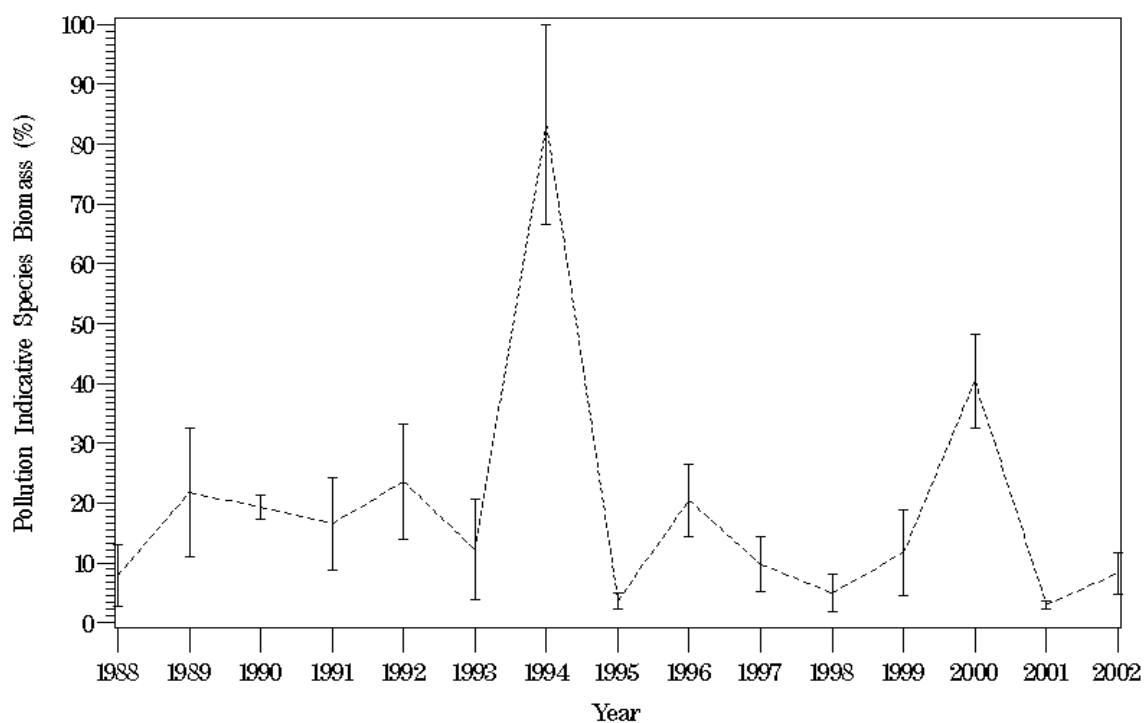


Figure P143. Plot of pollution indicative species biomass at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

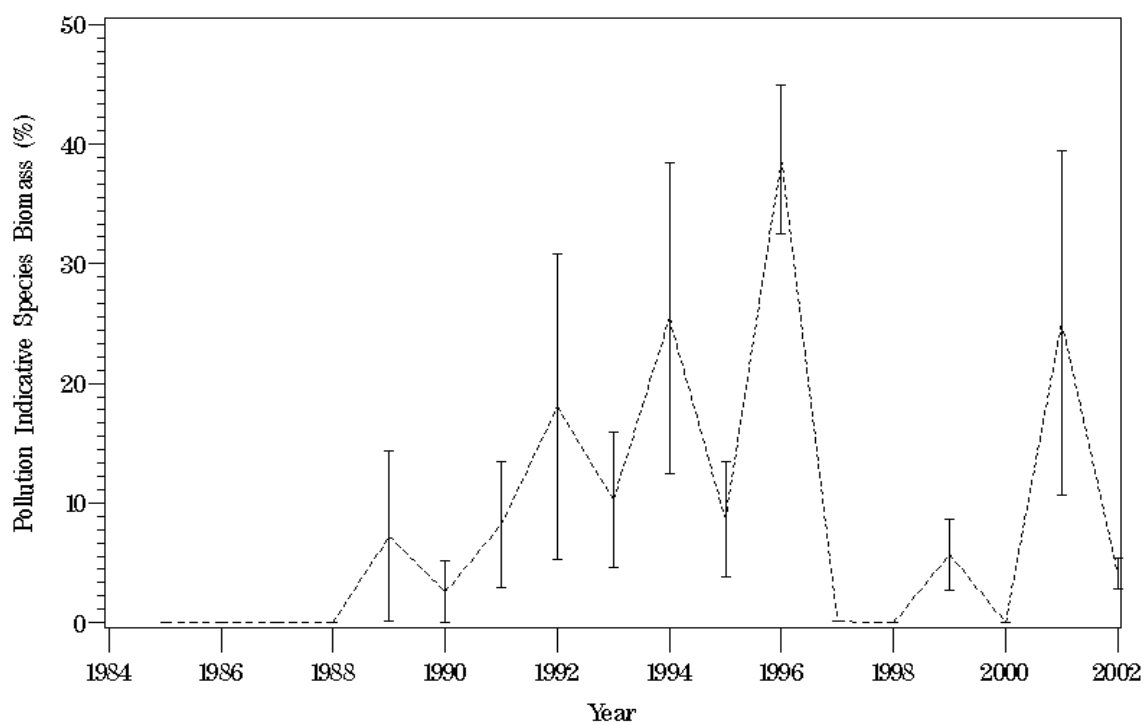


Figure P144. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

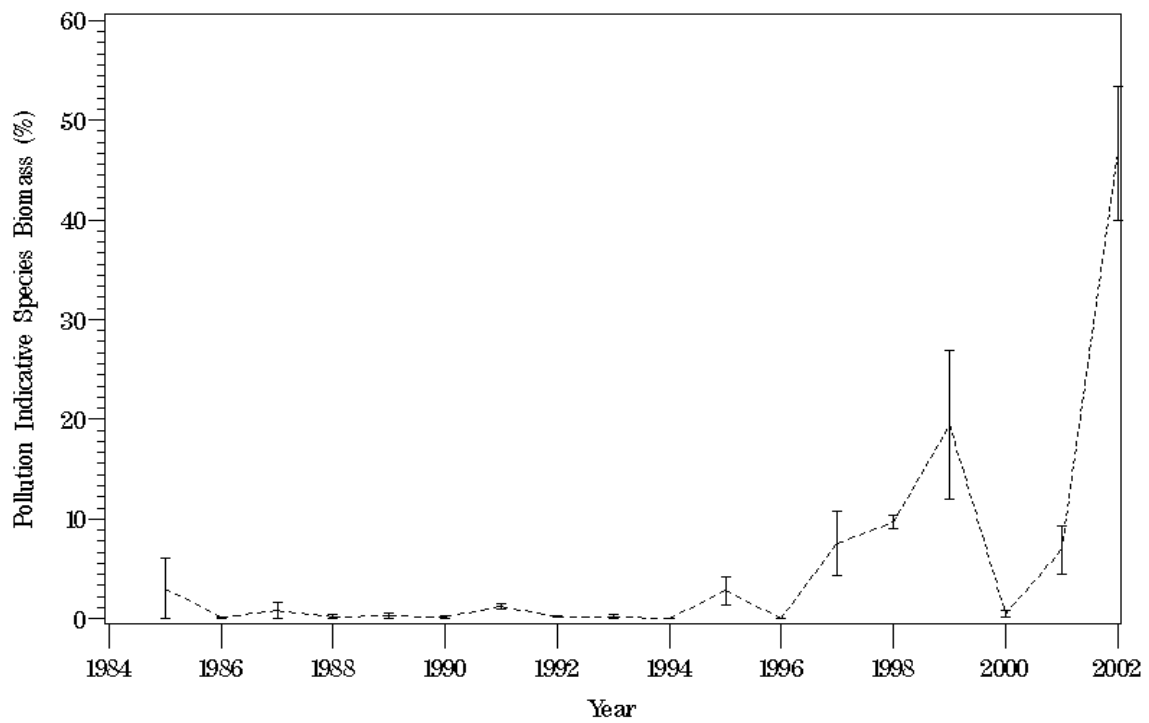


Figure P145. Plot of pollution indicative species biomass at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

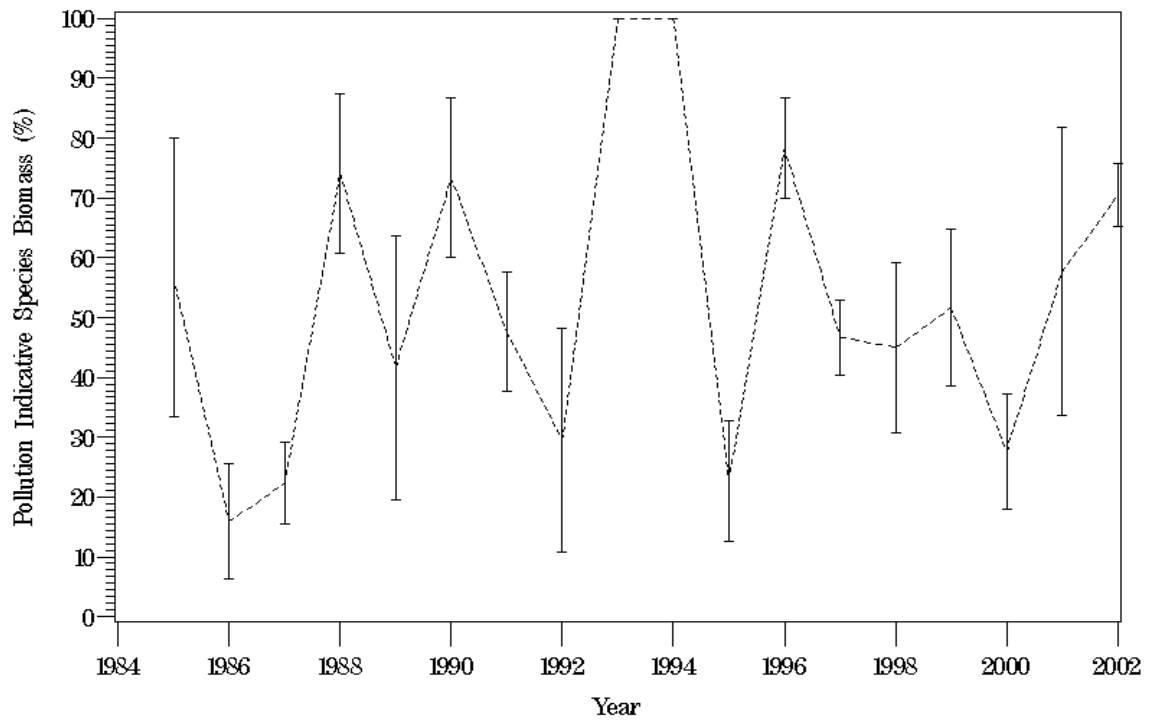


Figure P146. Plot of pollution indicative species biomass at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

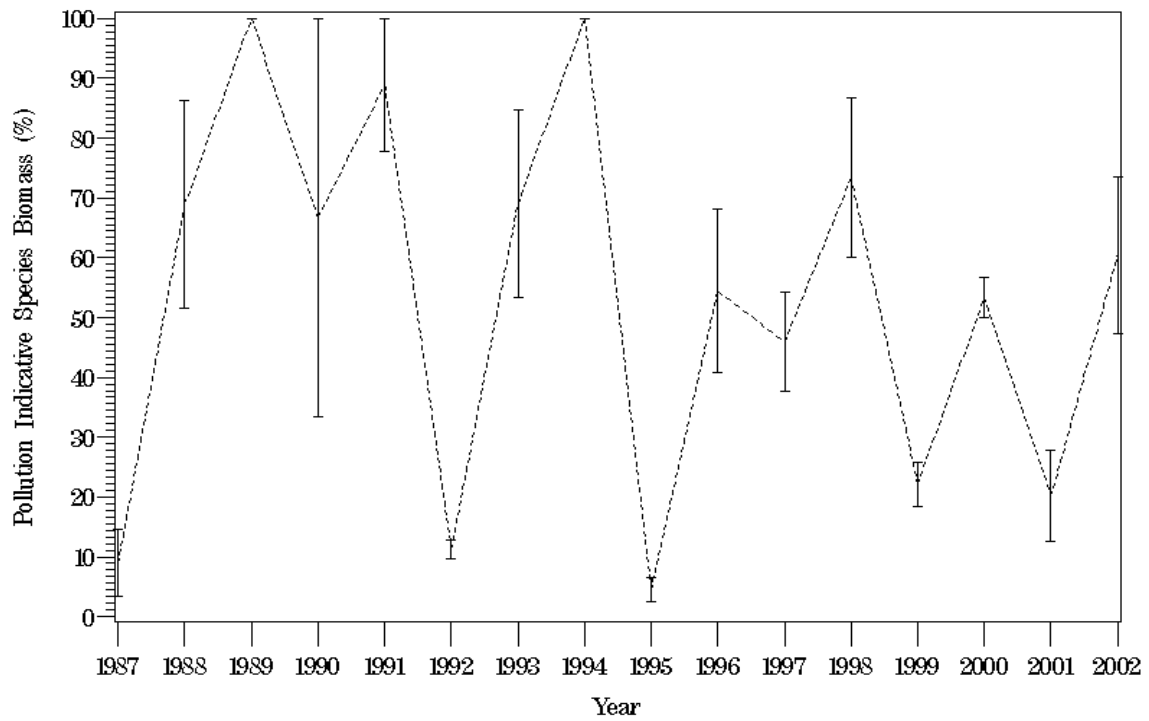


Figure P147. Plot of pollution indicative species biomass at station LE3.4 for 1985 through 2002.

CB8.1 (1-CB)

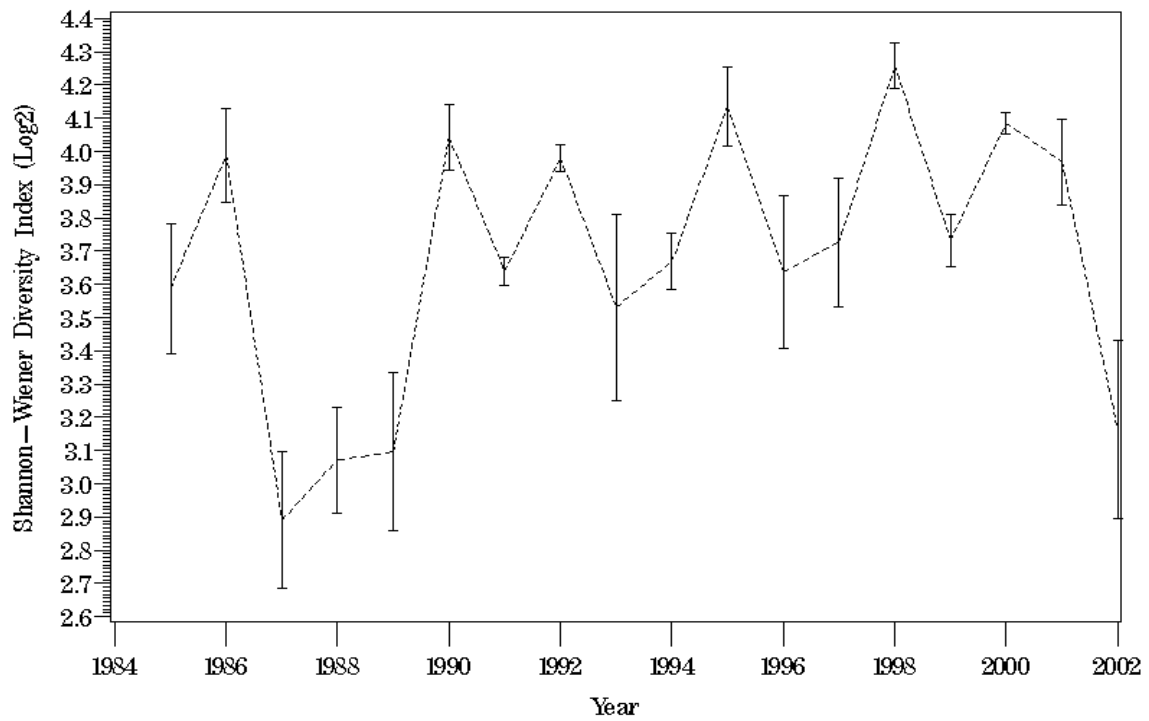


Figure P148. Plot of Shannon-Weiner diversity index at station CB8.1 for 1985 through 2002.

CB7.3E (2-CB)

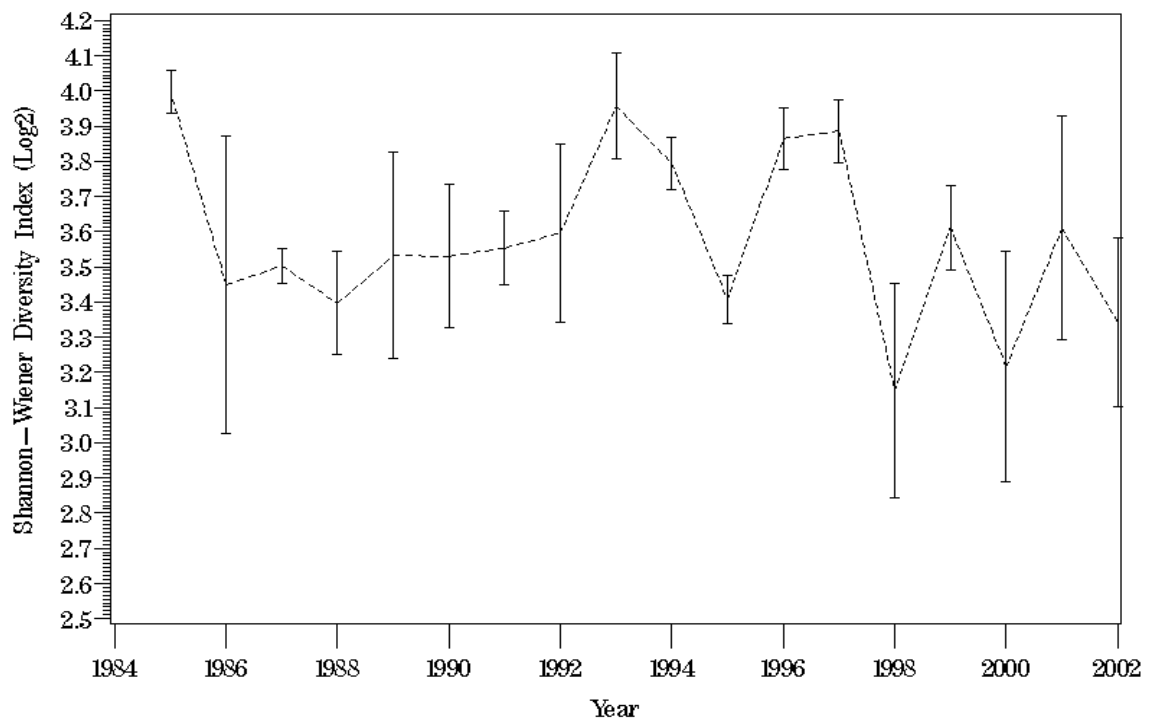


Figure P149. Plot of Shannon-Weiner diversity index at station CB7.3E for 1985 through 2002.

CB6.4 (3-CB)

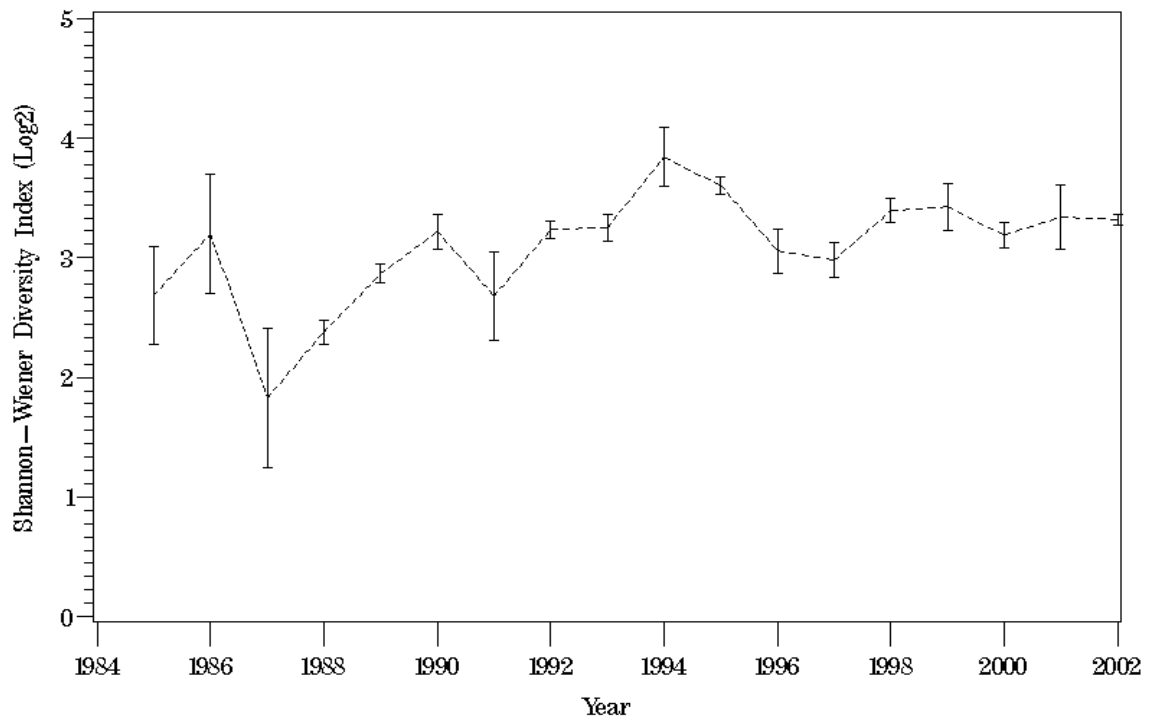


Figure P150. Plot of Shannon-Weiner diversity index at station CB6.4 for 1985 through 2002.

CB6.1 (4—CB)

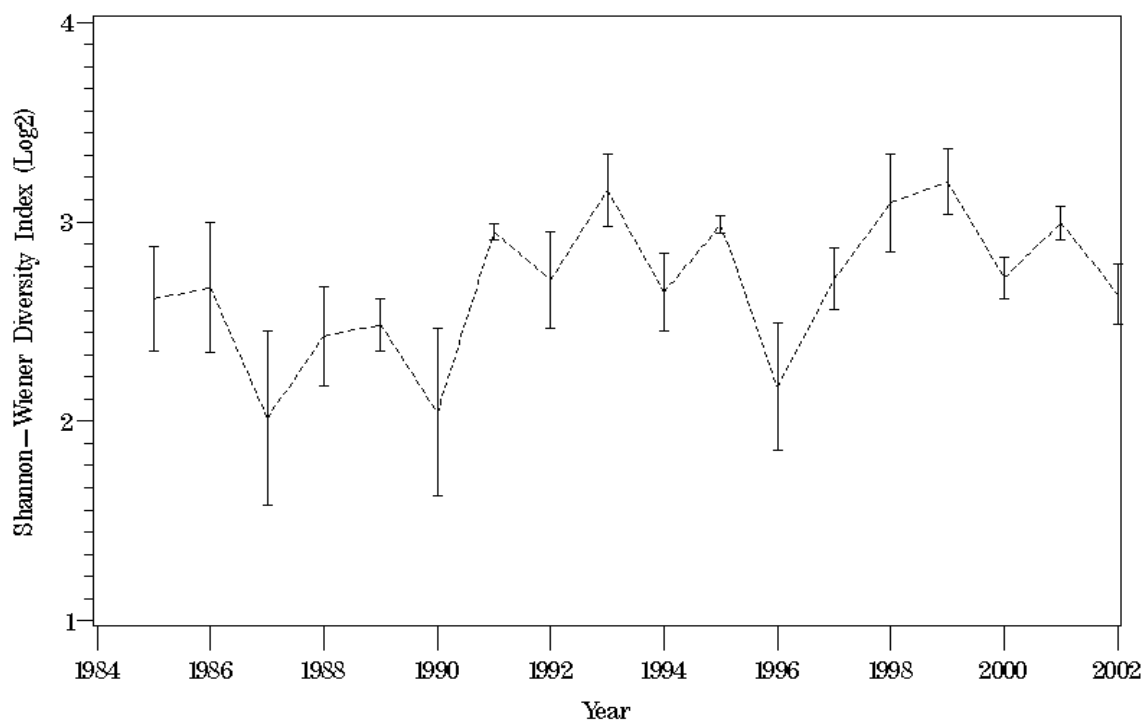


Figure P151. Plot of Shannon-Weiner diversity index at station CB6.1 for 1985 through 2002.

CB5.4 (5-CB)

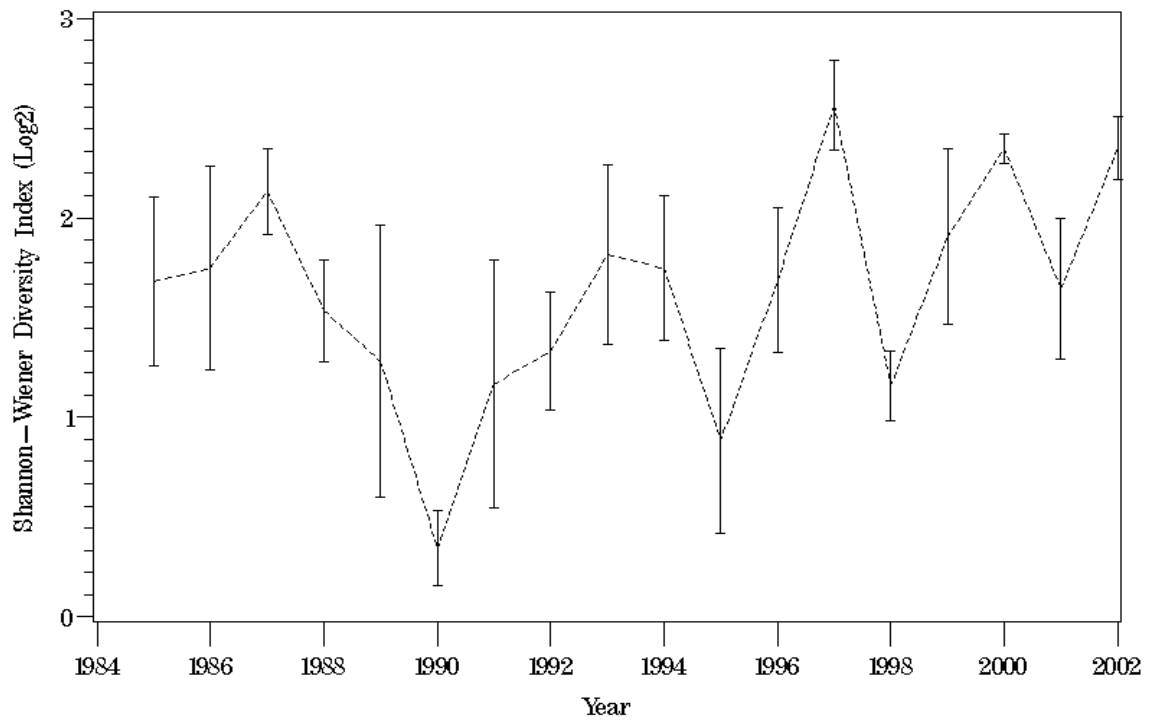


Figure P152. Plot of Shannon-Weiner diversity index at station CB5.4 for 1985 through 2002.

TF5.5 (1-J)

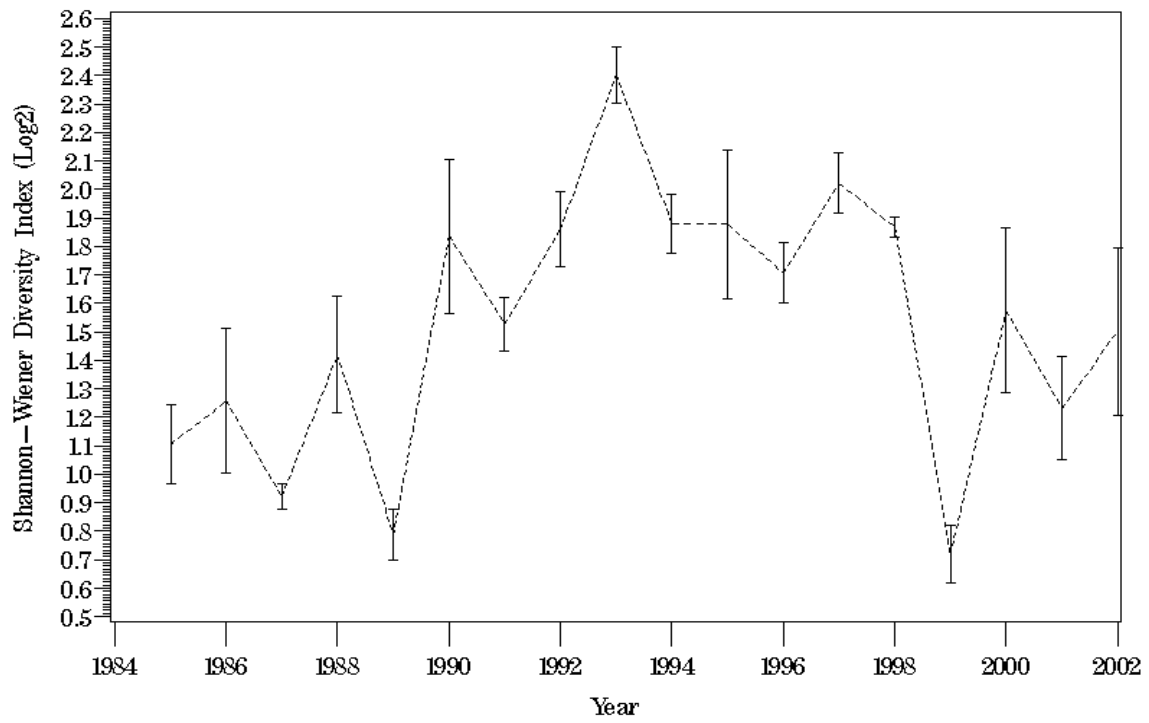


Figure P153. Plot of Shannon-Weiner diversity index at station TF5.5 for 1985 through 2002.

RET5.2 (2-J)

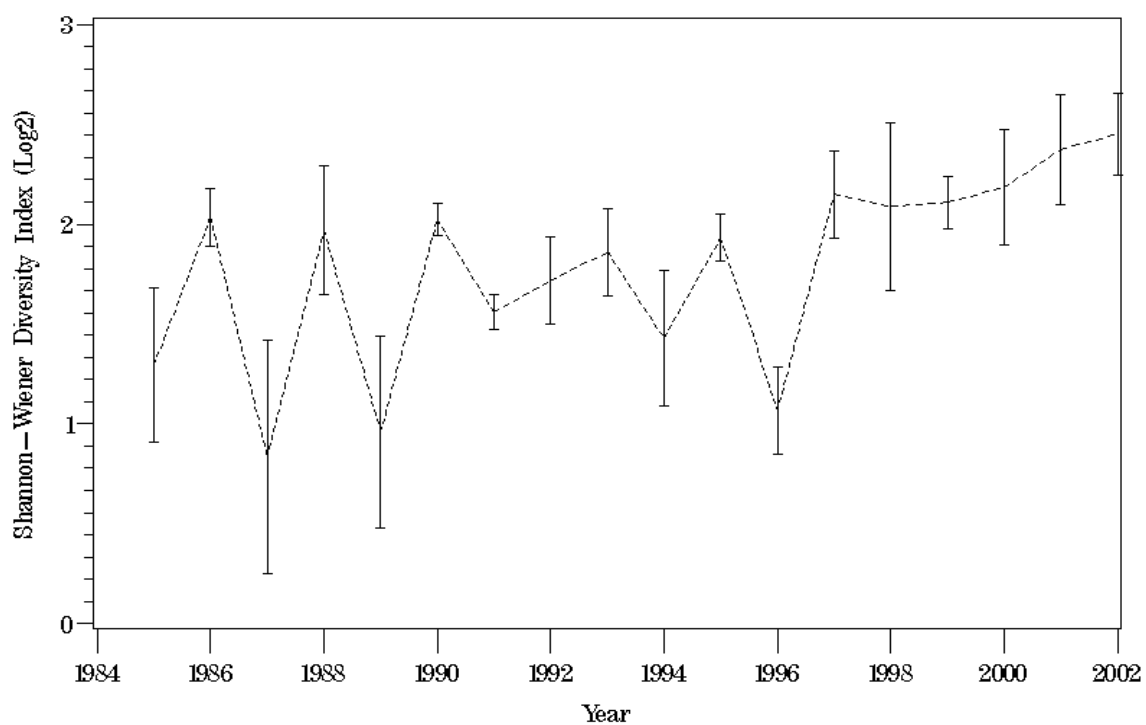


Figure P154. Plot of Shannon-Weiner diversity index at station RET5.2 for 1985 through 2002.

LE5.1 (2-JA)

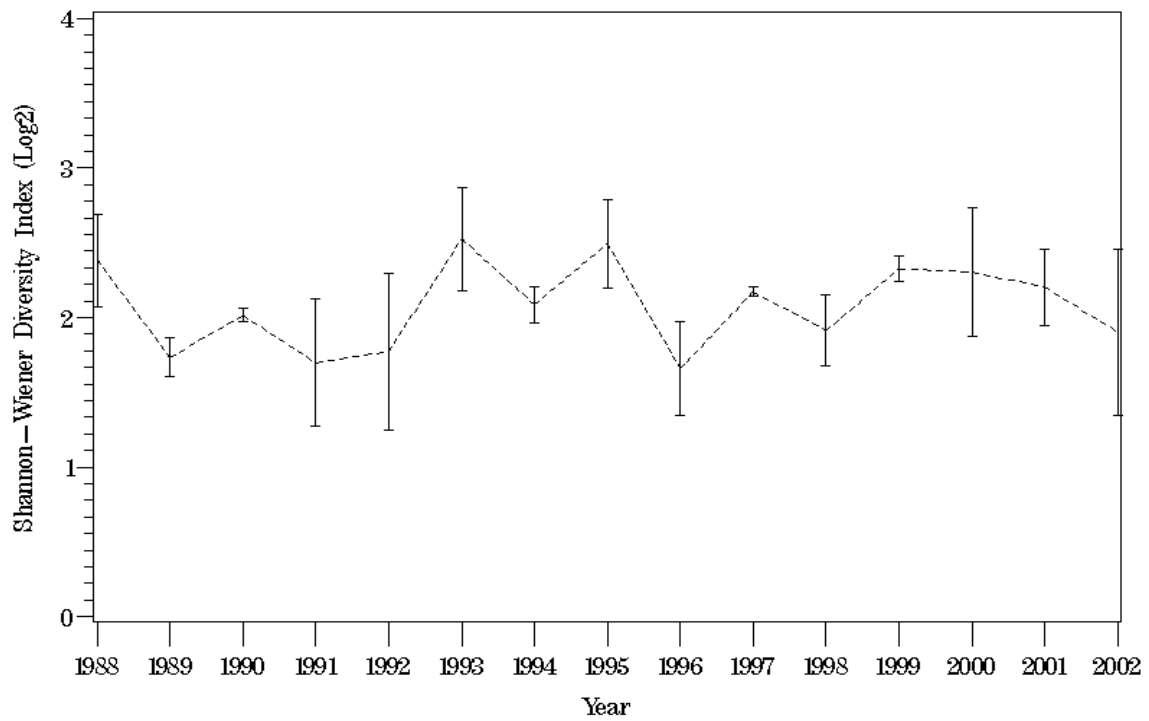


Figure P155. Plot of Shannon-Weiner diversity index at station LE5.1 for 1985 through 2002.

LE5.2 (3-J)

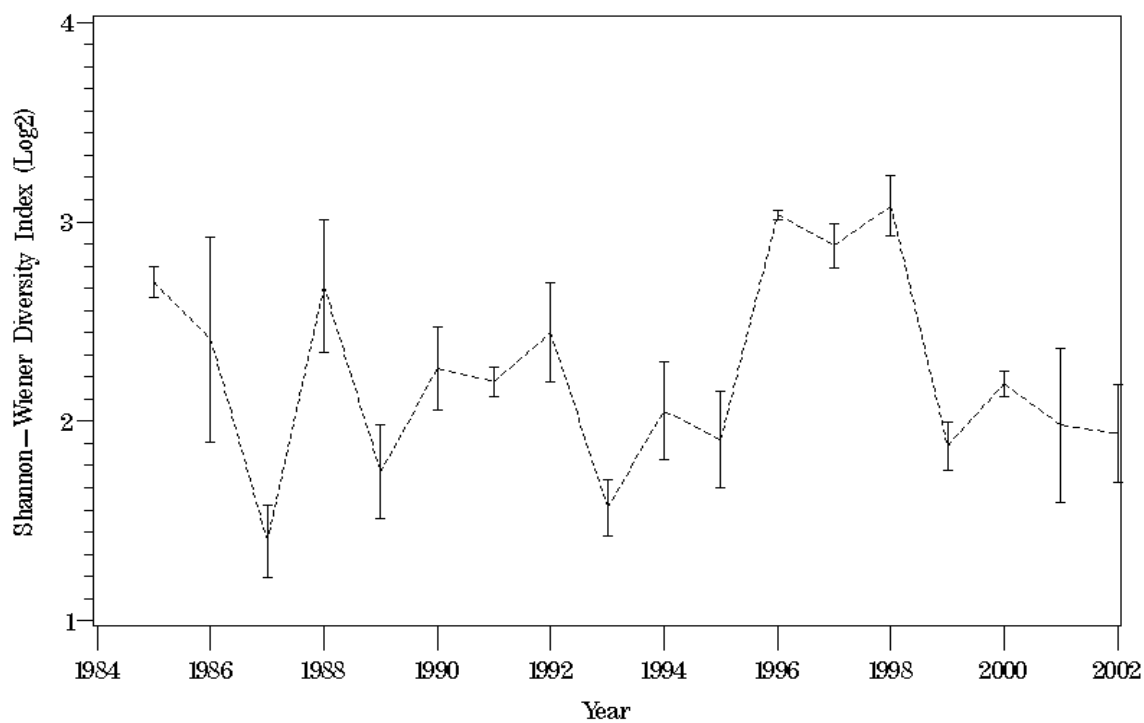


Figure P156. Plot of Shannon-Weiner diversity index at station LE5.2 for 1985 through 2002.

LE5.4 (4-J)

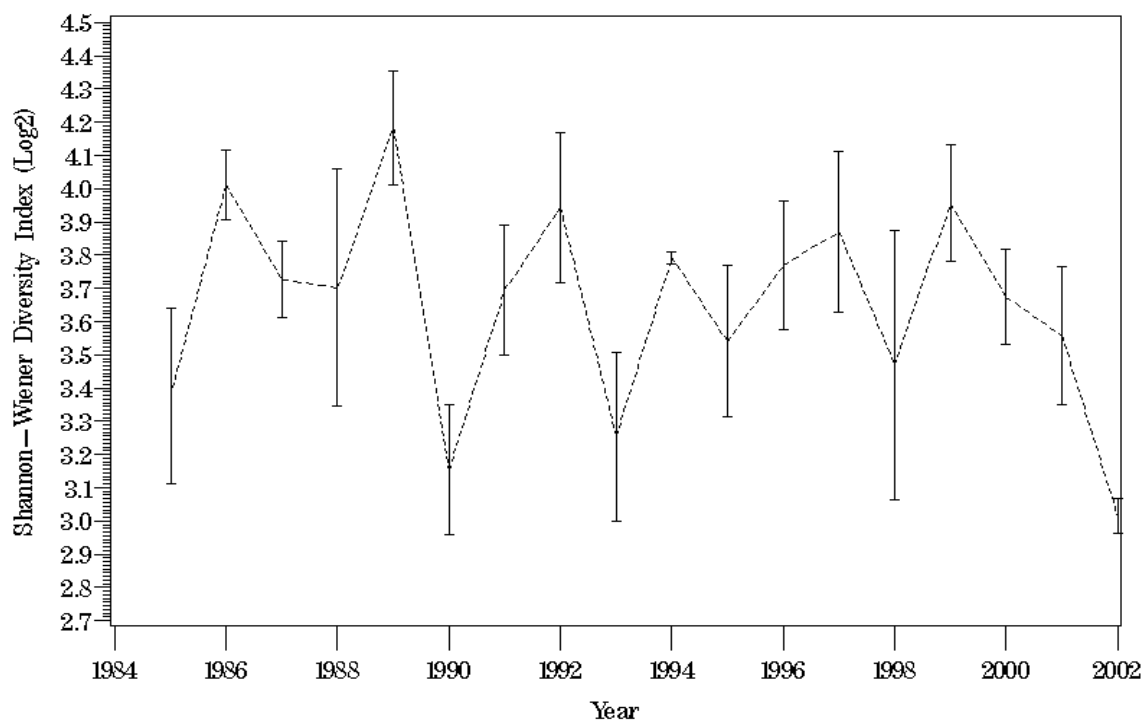


Figure P157. Plot of Shannon-Weiner diversity index at station LE5.4 for 1985 through 2002.

SBE2 (2-SB)

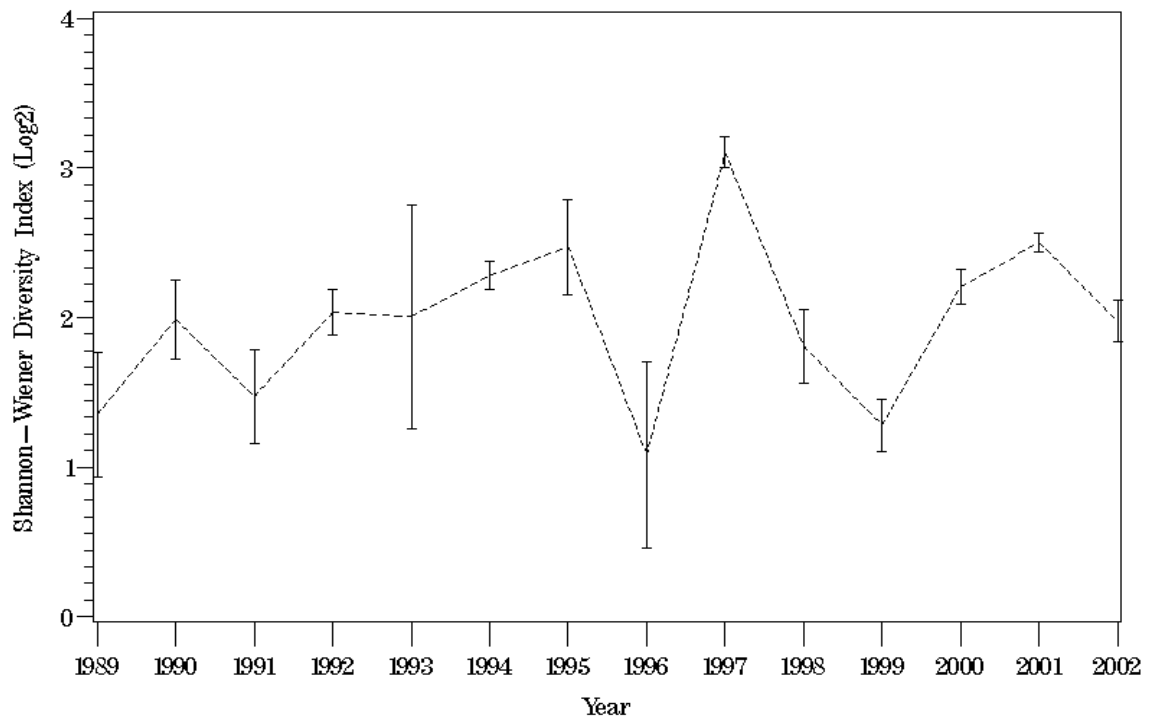


Figure P158. Plot of Shannon-Weiner diversity index at station SBE2 for 1985 through 2002.

SBE5 (5-SB)

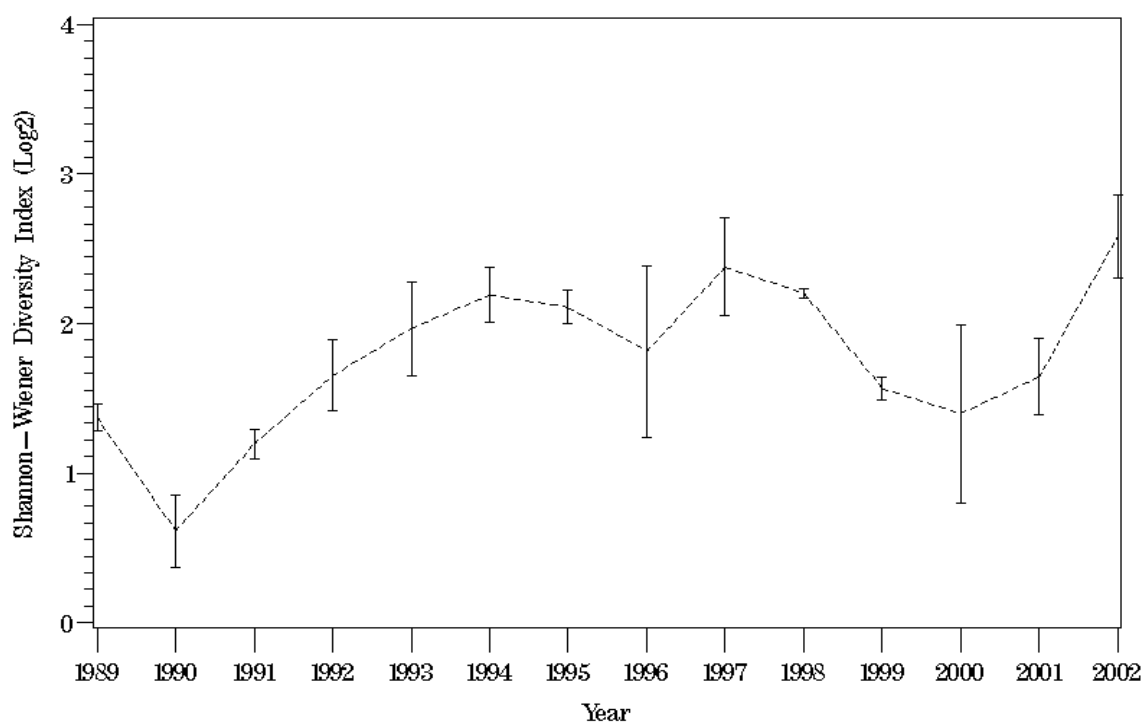


Figure P159. Plot of Shannon-Weiner diversity index at station SBE5 for 1985 through 2002.

TF4.2 (1-YP)

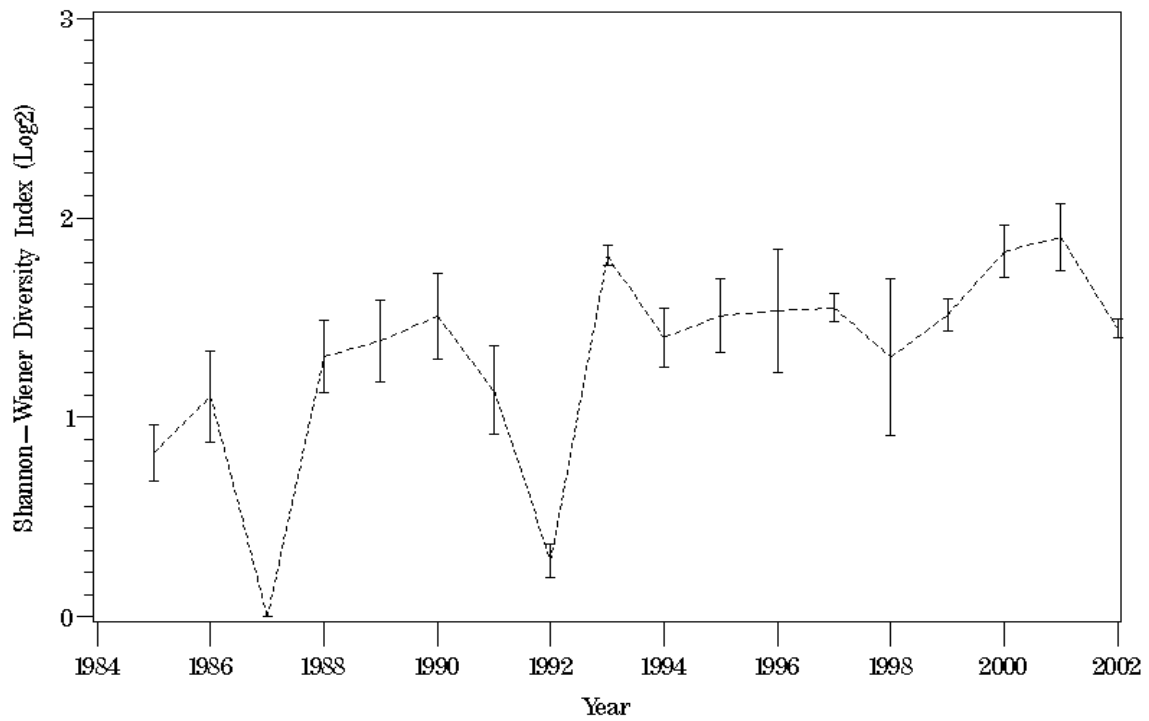


Figure P160. Plot of Shannon-Weiner diversity index at station TF4.2 for 1985 through 2002.

RET4.3 (2-YP)

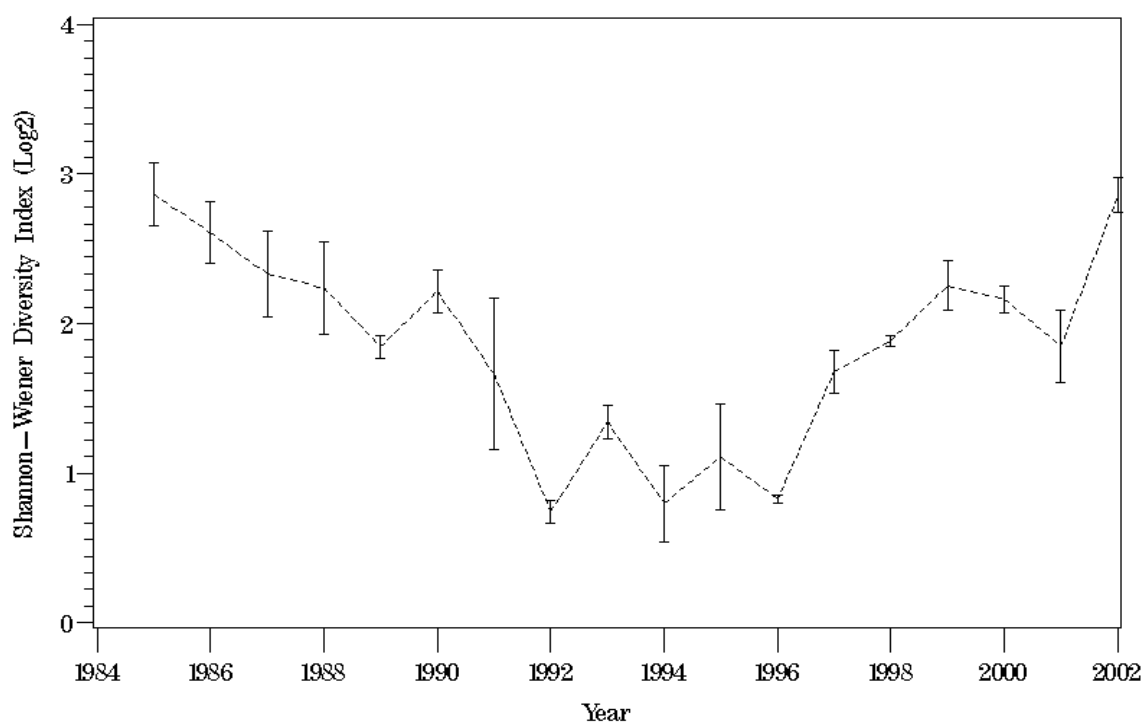


Figure P161. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2002.

LE4.1 (3-YP)

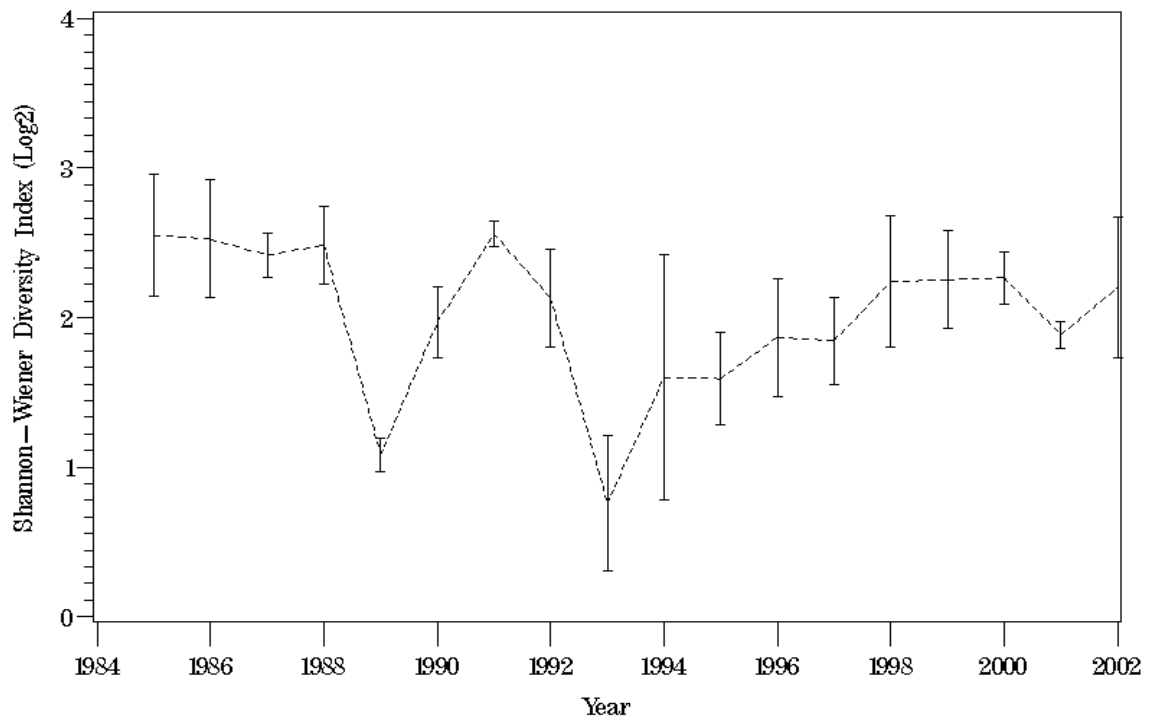


Figure P162. Plot of Shannon-Weiner diversity index at station LE4.1 for 1985 through 2002.

LE4.3 (4-YP)

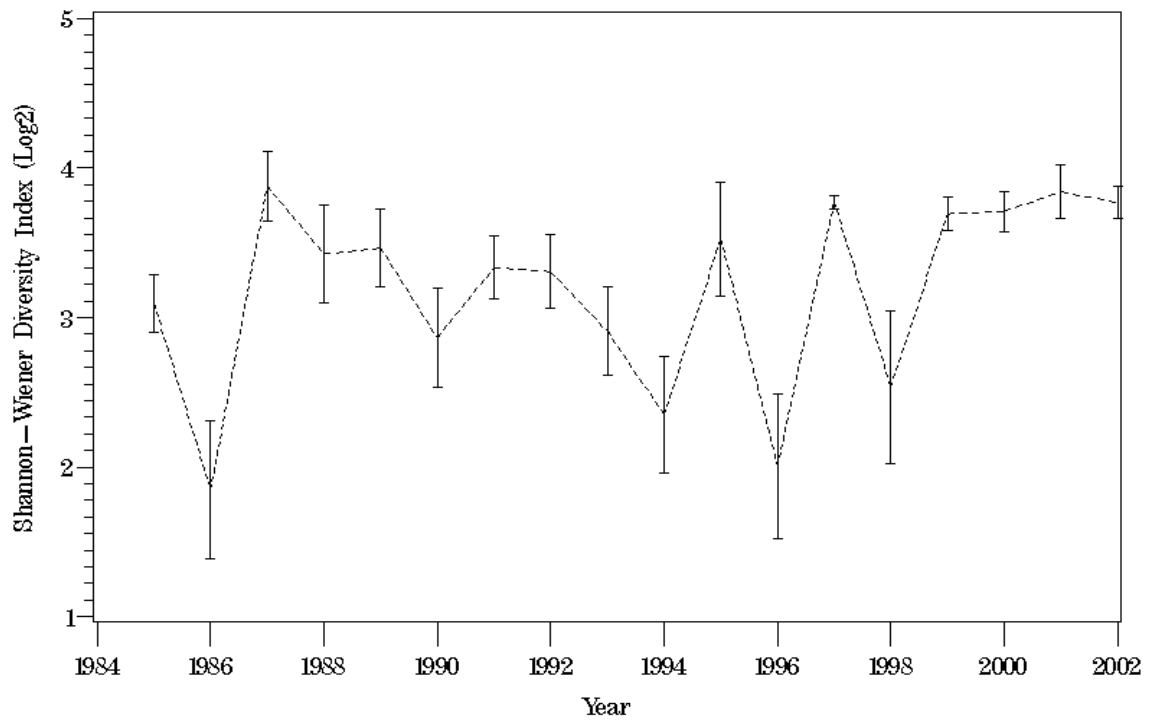


Figure P163. Plot of Shannon-Weiner diversity index at station LE4.3 for 1985 through 2002.

LE4.3B (5-YP)

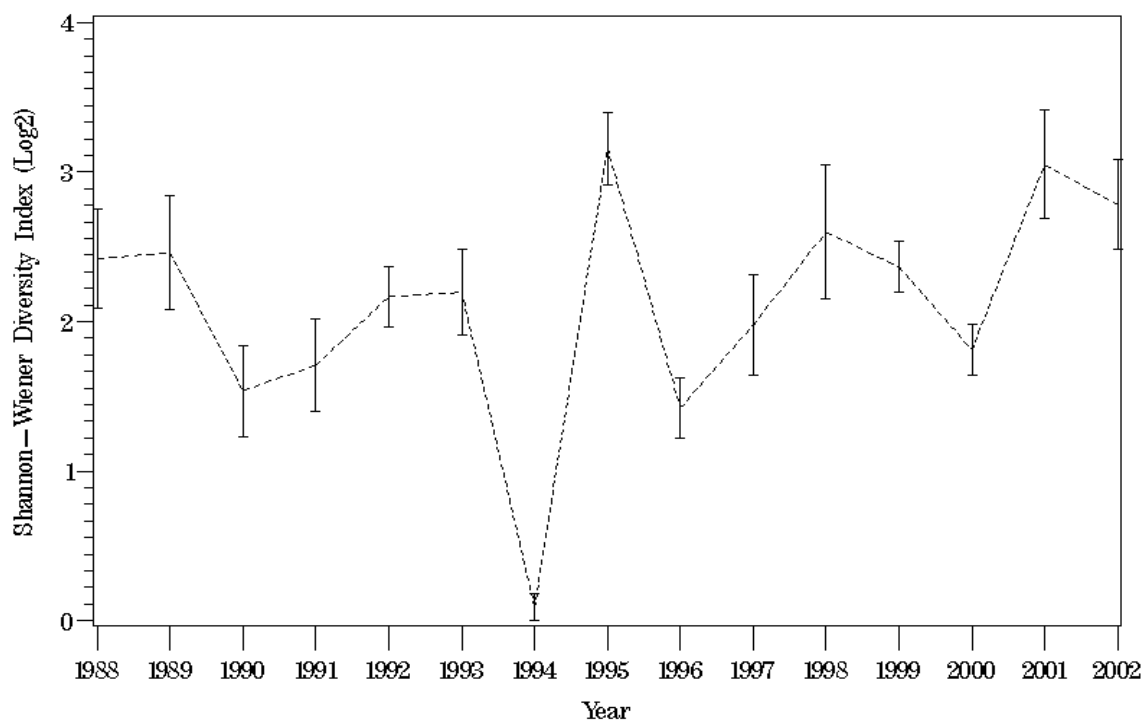


Figure P164. Plot of Shannon-Weiner diversity index at station LE4.3B for 1985 through 2002.

TF3.3 (1-R)

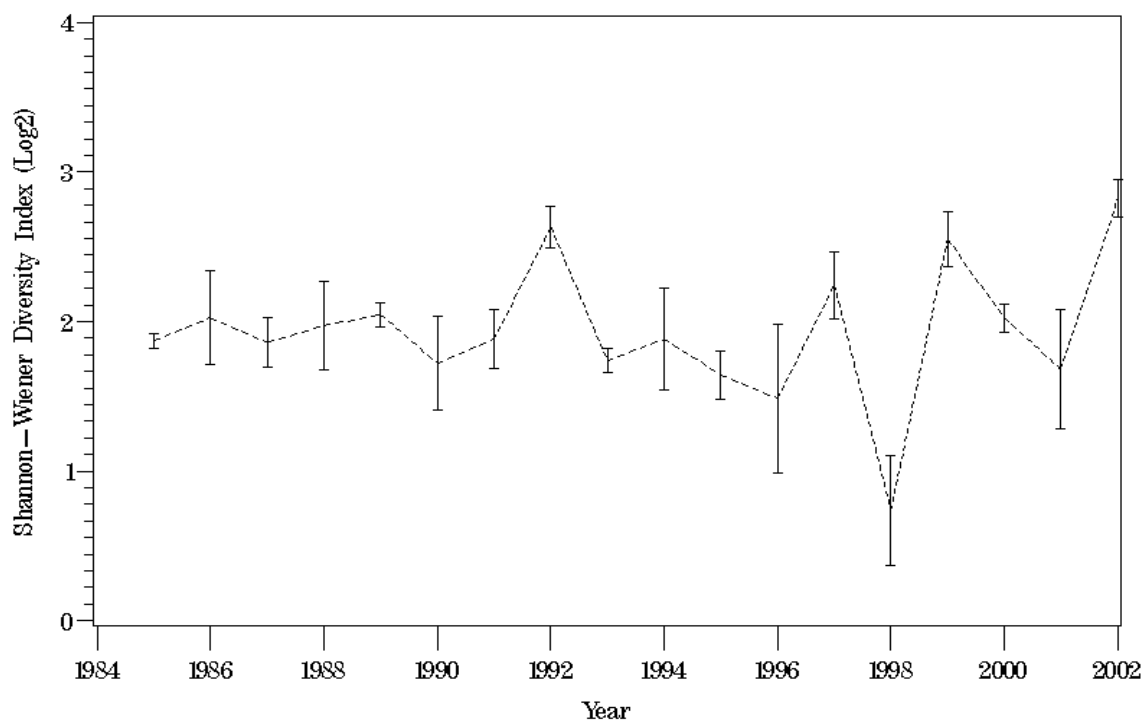


Figure P165. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2002.

RET3.1 (2-R)

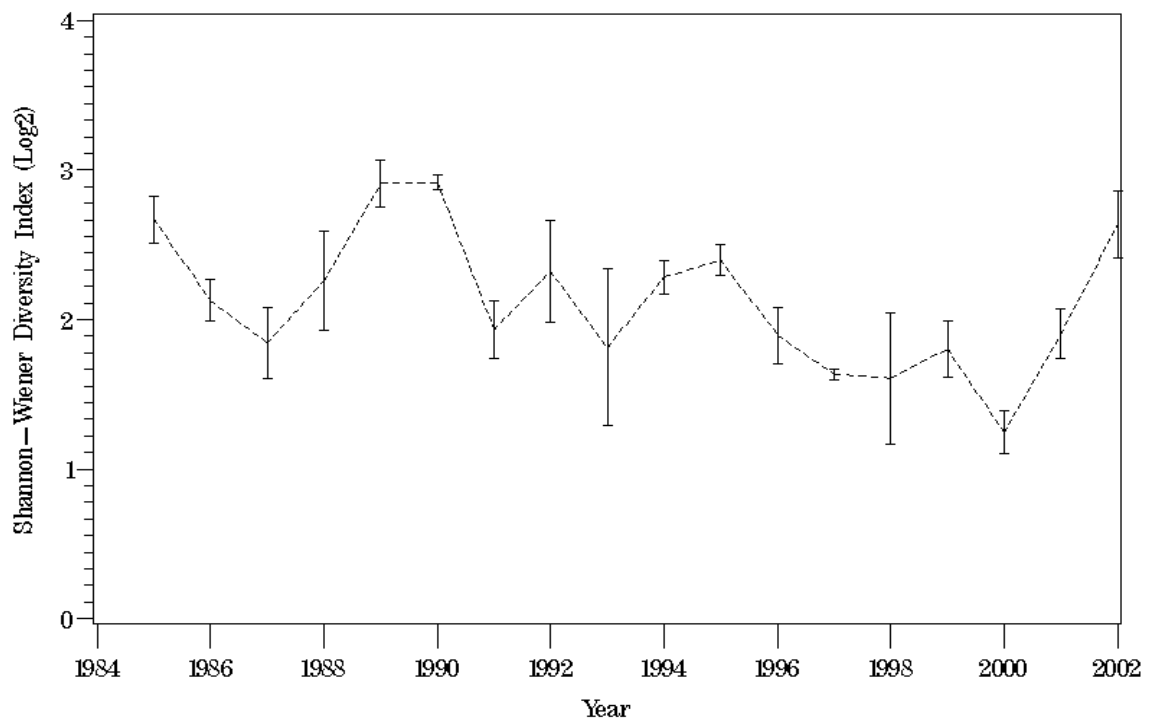


Figure P166. Plot of Shannon-Weiner diversity index at station RET3.1 for 1985 through 2002.

LE3.2 (3-R)

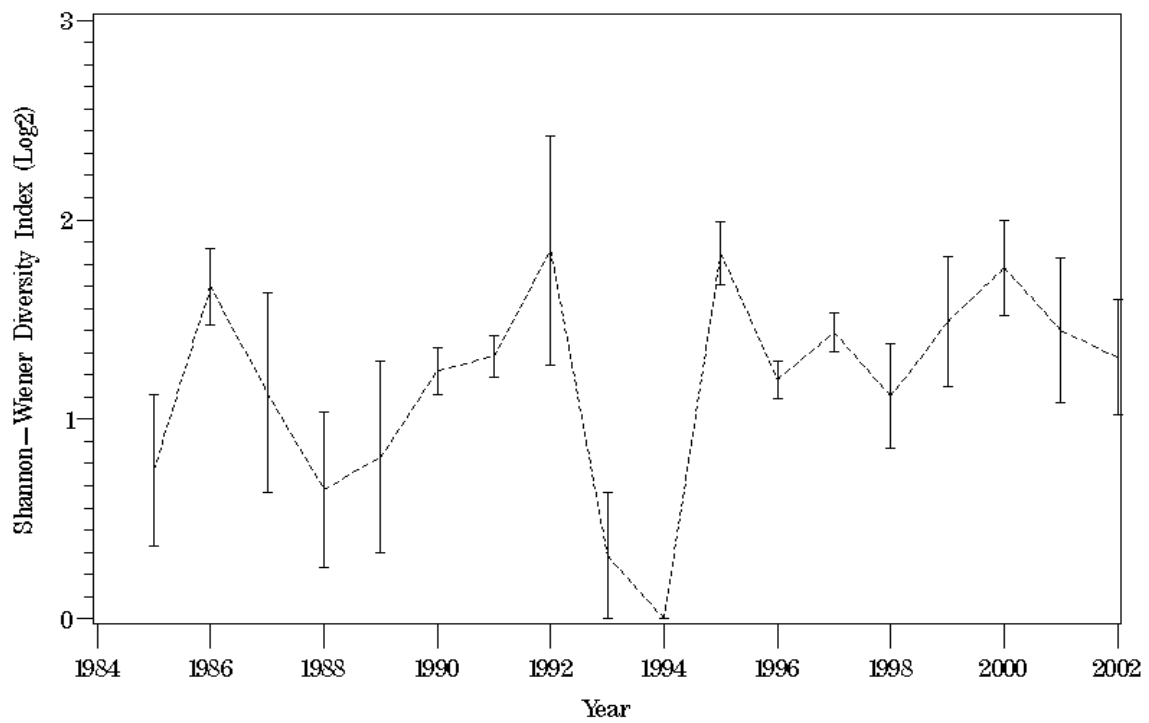


Figure P167. Plot of Shannon-Weiner diversity index at station LE3.2 for 1985 through 2002.

LE3.4 (4-R)

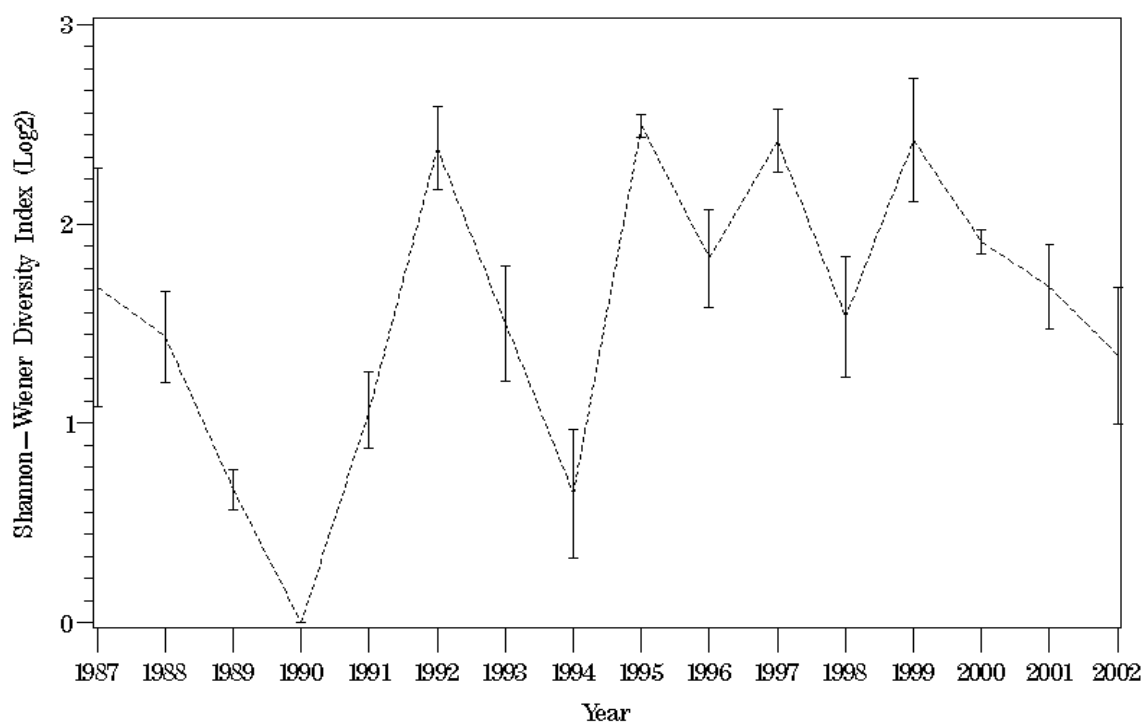


Figure P168. Plot of Shannon-Weiner diversity index at station LE3.4 for 1985 through 2002.