

Appendix K. Long term trends in the B-IBI and associated bioindicators for the Virginia tributary and Chesapeake Bay main stem monitoring stations for the period of 1985 through 2003. All trends shown were significant at  $p \leq 0.10$ .

Station	Parameter	Baseline	Slope	% Change	Absolute		Direction
					Change	p Value	
TF5.5	Benthic IBI	2.13	0.06	48.25	1.03	0.0374	Improving
TF5.5	Pollution Sensitive Species Abundance	0.00	2.15	-	38.60	0.0022	Improving
TF5.5	Pollution Sensitive Species Biomass	0.00	3.75	-	67.56	0.0028	Improving
RET5.2	Benthic IBI	2.00	0.07	60.03	1.20	0.0010	Improving
RET5.2	Total Community Abundance	610.56	41.10	121.15	739.72	0.0687	Improving
RET5.2	Pollution Sensitive Species Abundance	10.42	1.84	318.30	33.17	0.0015	Improving
RET5.2	Pollution Sensitive Species Biomass	28.04	2.24	143.47	40.23	0.0275	Improving
RET5.2	Shannon-Weiner Diversity Index	1.66	0.05	56.39	0.94	0.0087	Improving
LE5.1	Pollution Indicative Species Abundance	0.00	0.00	-	0.00	0.0771	No Change
LE5.2	Total Community Abundance	1221.12	58.98	86.93	1061.54	0.0250	Improving
LE5.4	Pollution Indicative Species Abundance	1.99	-0.11	-98.23	-1.95	0.0187	Improving
LE5.4	Pollution Sensitive Species Biomass	60.10	-1.66	-49.63	-29.83	0.0461	Degrading
SBE2	Total Community Abundance	1631.34	143.10	122.81	2003.40	0.0007	Improving
SBE2	Total Community Biomass	0.89	0.05	81.01	0.72	0.0077	Improving
SBE2	Pollution Sensitive Species Abundance	4.86	3.85	1110.32	53.96	0.0000	Improving
SBE2	Pollution Indicative Species Abundance	71.15	-3.00	-59.03	-42.00	0.0016	Improving
SBE2	Pollution Sensitive Species Biomass	6.80	1.67	343.14	23.33	0.0018	Improving
SBE5	Benthic IBI	1.30	0.10	107.69	1.40	0.0000	Improving
SBE5	Total Community Biomass	0.60	0.05	106.87	0.64	0.0075	Improving
SBE5	Pollution Sensitive Species Abundance	0.00	3.00	-	42.06	0.0000	Improving
SBE5	Pollution Indicative Species Abundance	91.62	-5.45	-83.22	-76.25	0.0000	Improving
SBE5	Pollution Sensitive Species Biomass	0.00	2.01	-	28.12	0.0002	Improving
SBE5	Pollution Indicative Species Biomass	81.62	-3.73	-63.95	-52.20	0.0003	Improving
SBE5	Shannon-Weiner Diversity Index	1.14	0.04	54.28	0.62	0.0808	Improving

Station	Parameter	Baseline	Slope	% Change	Absolute		Direction
					Change	p Value	
TF4.2	Total Community Abundance	410.22	106.62	467.85	1919.22	0.0153	Improving
TF4.2	Shannon-Weiner Diversity Index	0.96	0.05	97.13	0.93	0.0048	Improving
LE4.1	Pollution Sensitive Species Biomass	82.49	-2.82	-61.53	-50.75	0.0333	Degrading
LE4.3B	Benthic IBI	1.30	0.14	144.40	1.88	0.0022	Improving
LE4.3B	Pollution Sensitive Species Abundance	20.97	1.82	112.72	23.64	0.0999	Improving
LE4.3B	Pollution Indicative Species Abundance	66.67	-3.09	-60.17	-40.11	0.0161	Improving
LE4.3B	Shannon-Weiner Diversity Index	1.45	0.09	82.84	1.20	0.0144	Improving

Station	Parameter	Baseline	Slope	% Change	Absolute		Direction
					Change	p Value	
TF3.3	Pollution Sensitive Species Biomass	80.17	-2.03	-45.58	-36.54	0.0480	Degrading
RET3.1	Benthic IBI	3.57	-0.08	-40.44	-1.44	0.0148	Degrading
RET3.1	Total Community Biomass	9.02	-0.49	-97.08	-8.76	0.0107	Degrading
RET3.1	Pollution Sensitive Species Abundance	33.99	-1.67	-88.37	-30.04	0.0084	Degrading
RET3.1	Pollution Sensitive Species Biomass	71.23	-4.12	-104.15	-74.18	0.0211	Degrading
LE3.2	Total Community Abundance	429.30	29.05	121.82	522.96	0.0577	Improving
LE3.4	Benthic IBI	1.00	0.05	65.00	0.65	0.0694	Improving

Table 1. Continued.

Station	Parameter	Baseline	Slope	% Change	Absolute		Direction
					Change	p Value	
CB5.4	Total Community Abundance	333.90	49.29	265.71	887.22	0.0991	Improving
CB6.1	Total Community Abundance	1488.24	79.82	96.54	1436.72	0.0107	Improving
CB6.1	Pollution Indicative Species Abundance	16.08	1.13	126.91	20.41	0.0211	Degrading
CB6.1	Pollution Sensitive Species Biomass	43.49	-2.24	-92.79	-40.35	0.0480	Degrading
CB6.1	Pollution Indicative Species Biomass	1.70	0.63	667.16	11.34	0.0480	Degrading
CB6.1	Shannon-Weiner Diversity Index	2.64	0.02	15.55	0.41	0.0699	Improving
CB6.4	Total Community Abundance	1640.88	242.21	265.70	4359.78	0.0169	Improving
CB6.4	Pollution Sensitive Species Biomass	83.36	-1.97	-42.57	-35.49	0.0480	Degrading
CB6.4	Shannon-Weiner Diversity Index	2.94	0.04	22.84	0.67	0.0169	Improving
CB7.3E	Pollution Indicative Species Abundance	13.62	-0.67	-88.86	-12.10	0.0581	Improving
CB8.1	Pollution Indicative Species Abundance	18.00	-0.91	-90.75	-16.34	0.0057	Improving
CB8.1	Pollution Sensitive Species Biomass	83.43	-2.15	-46.29	-38.62	0.0087	Degrading

## **Appendix L. Scatterplots of the benthic B-IBI**

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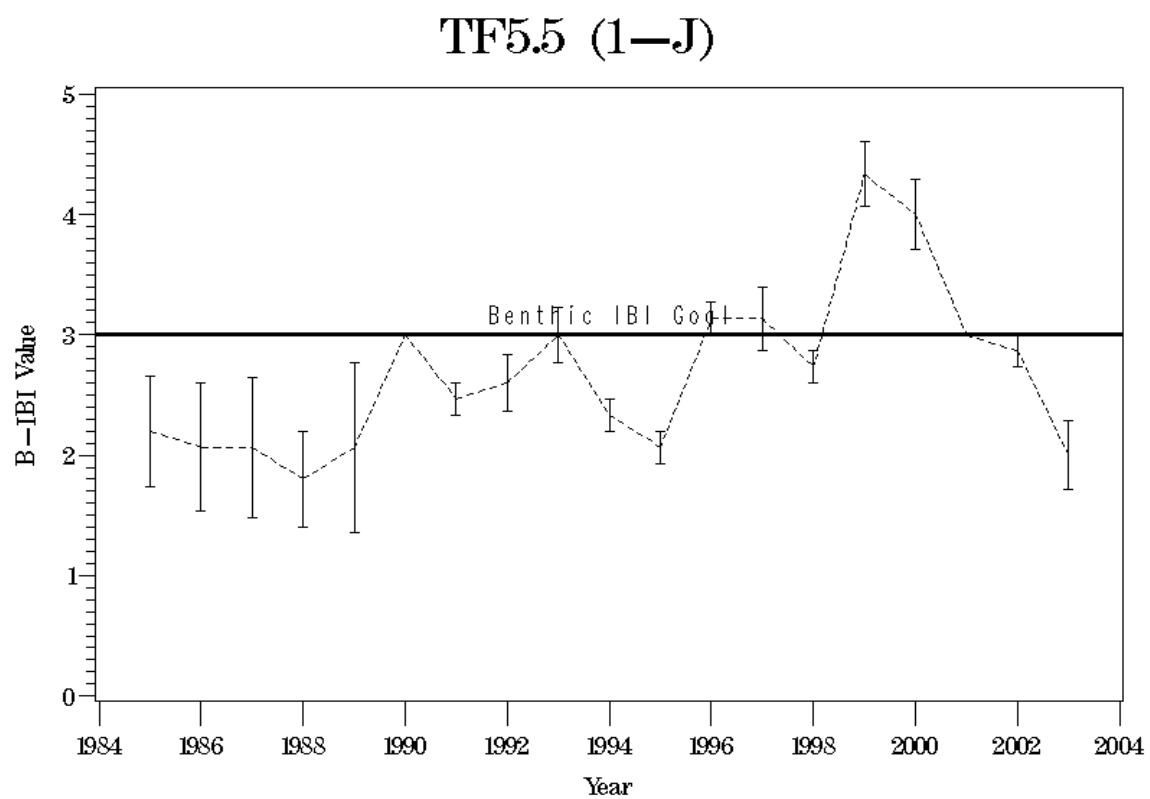


Figure L1. Plot of the benthic IBI against time at station TF5.5 for 1985 through 2003.

## RET5.2 (2-J)

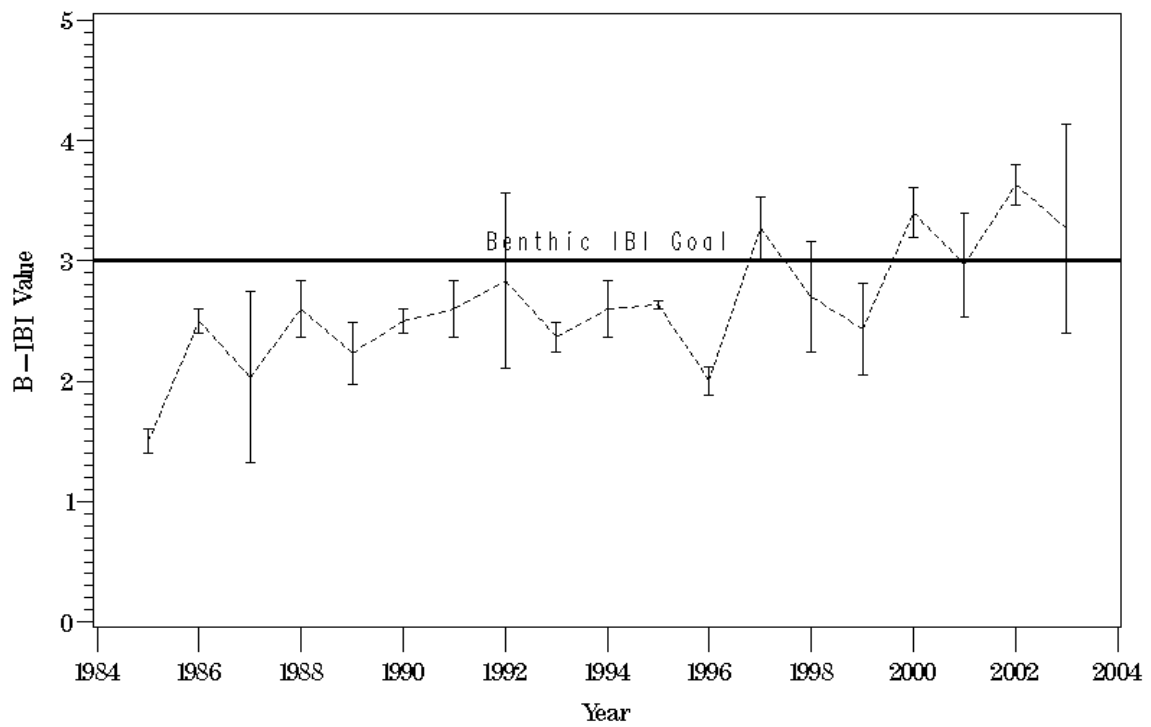


Figure L2. Plot of the benthic IBI against time at station RET5.2 for 1985 through 2003.

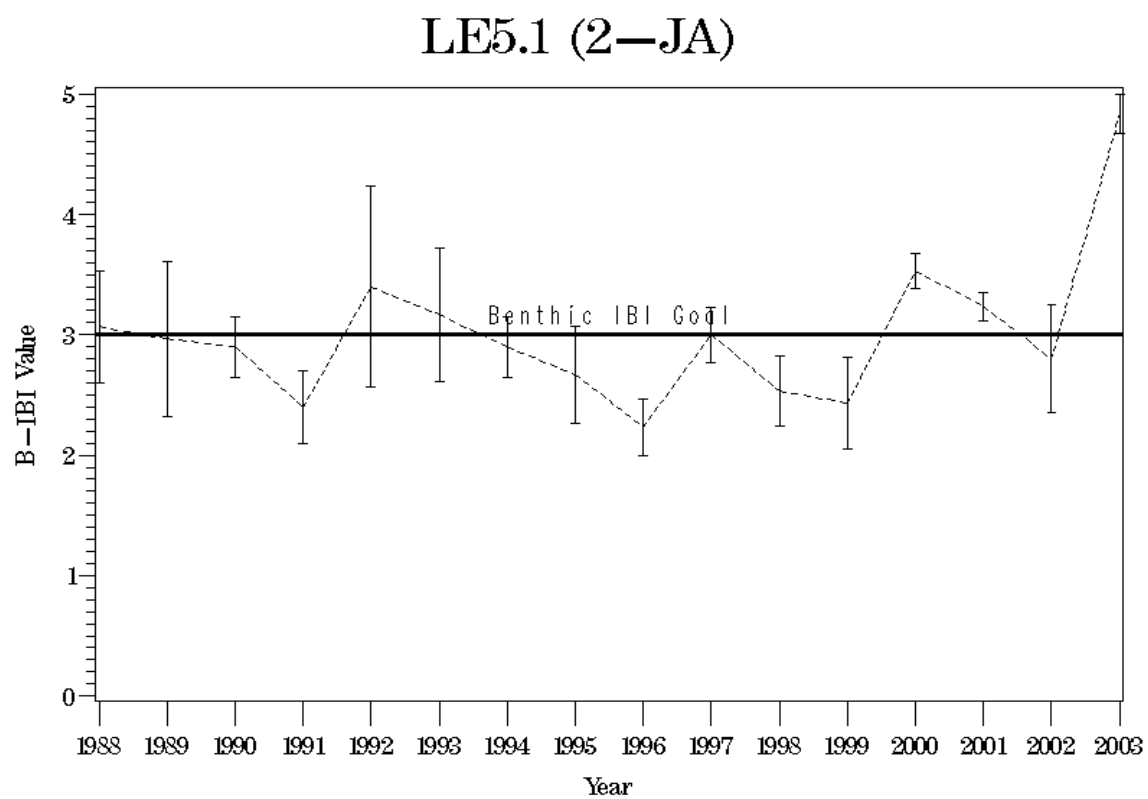


Figure L3. Plot of the benthic IBI against time at station LE5.1 for 1985 through 2003.

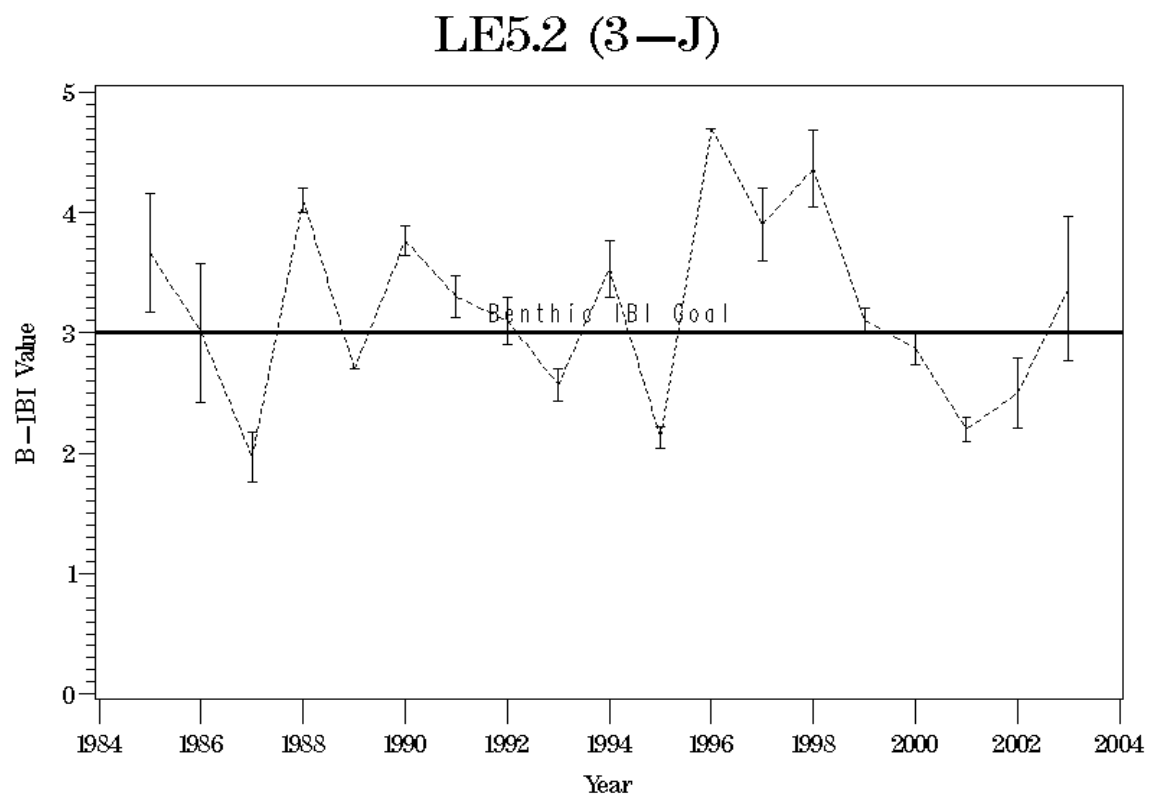


Figure L4. Plot of the benthic IBI against time at station LE5.2 for 1985 through 2003.

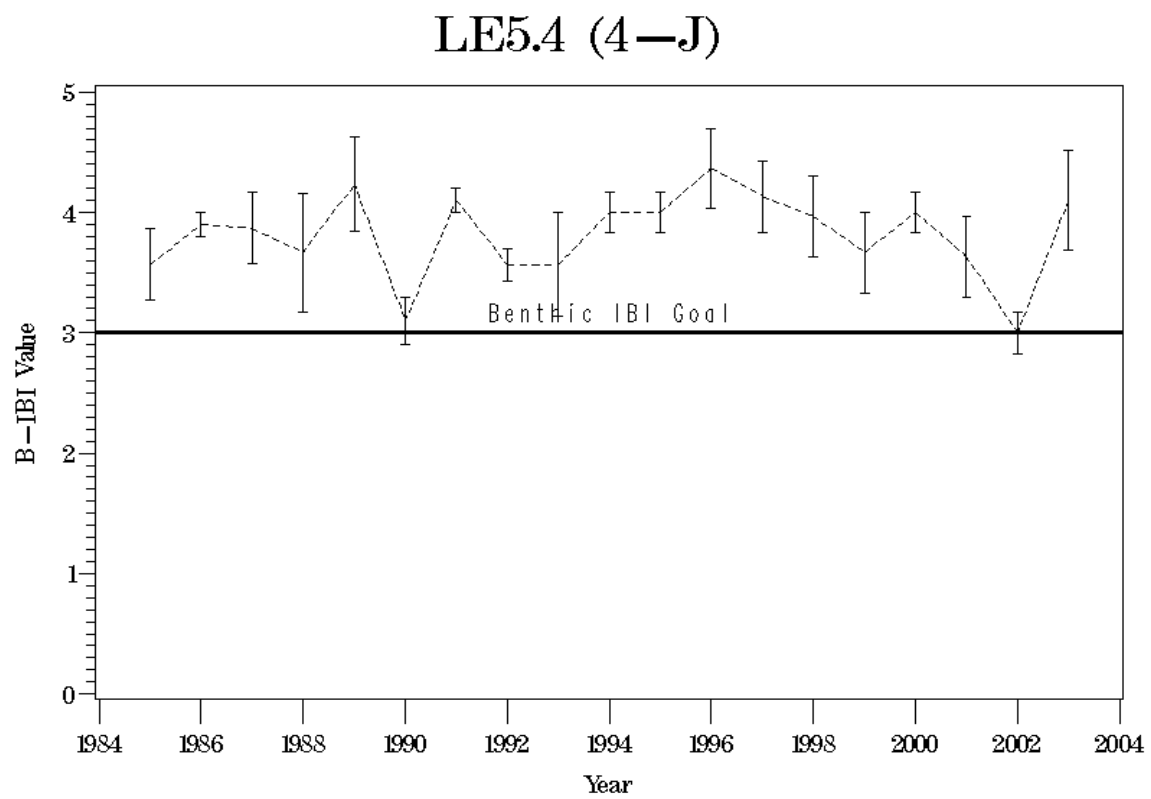


Figure L5. Plot of the benthic IBI against time at station LE5.4 for 1985 through 2003.

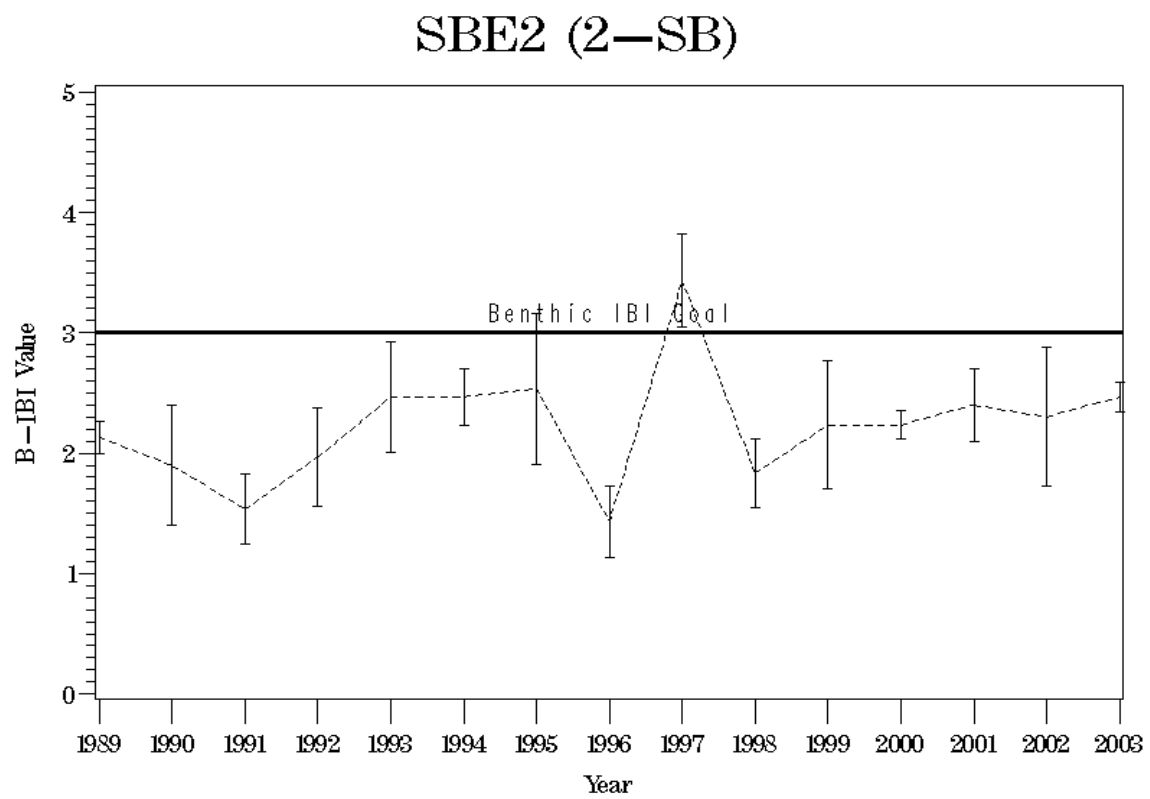


Figure L6. Plot of the benthic IBI against time at station SBE2 for 1985 through 2003.

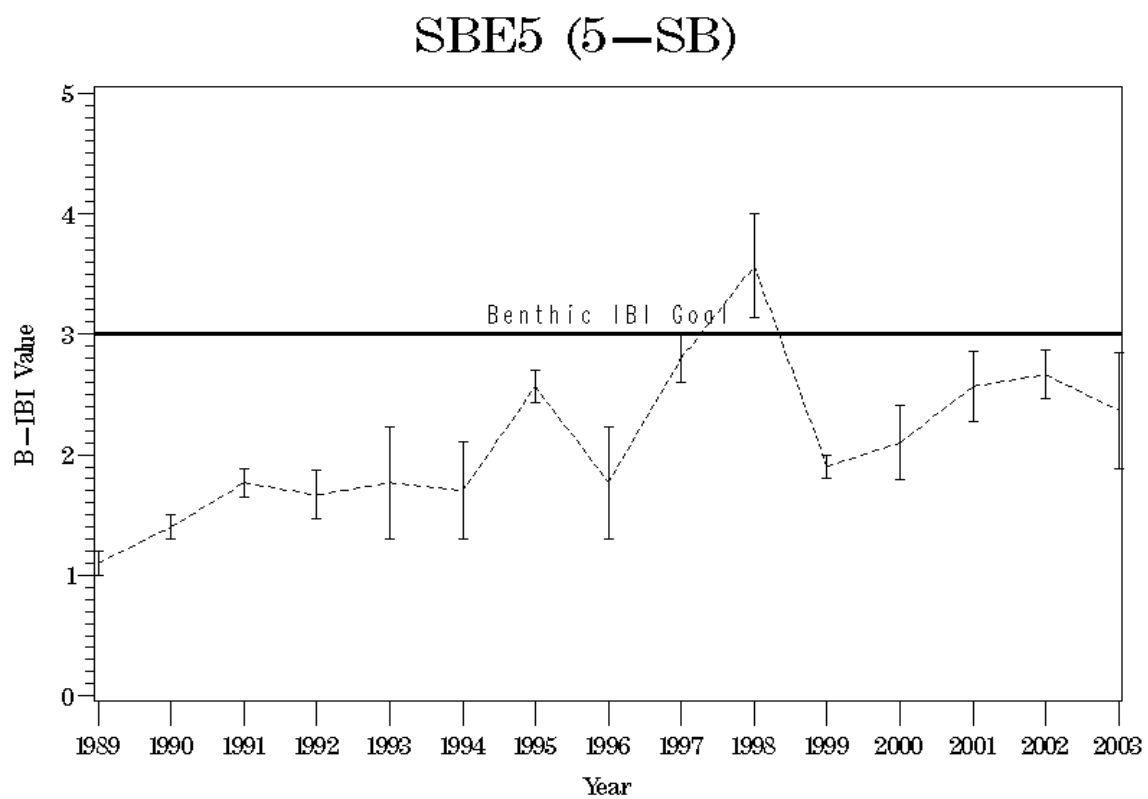


Figure L7. Plot of the benthic IBI against time at station SBE5 for 1985 through 2003.

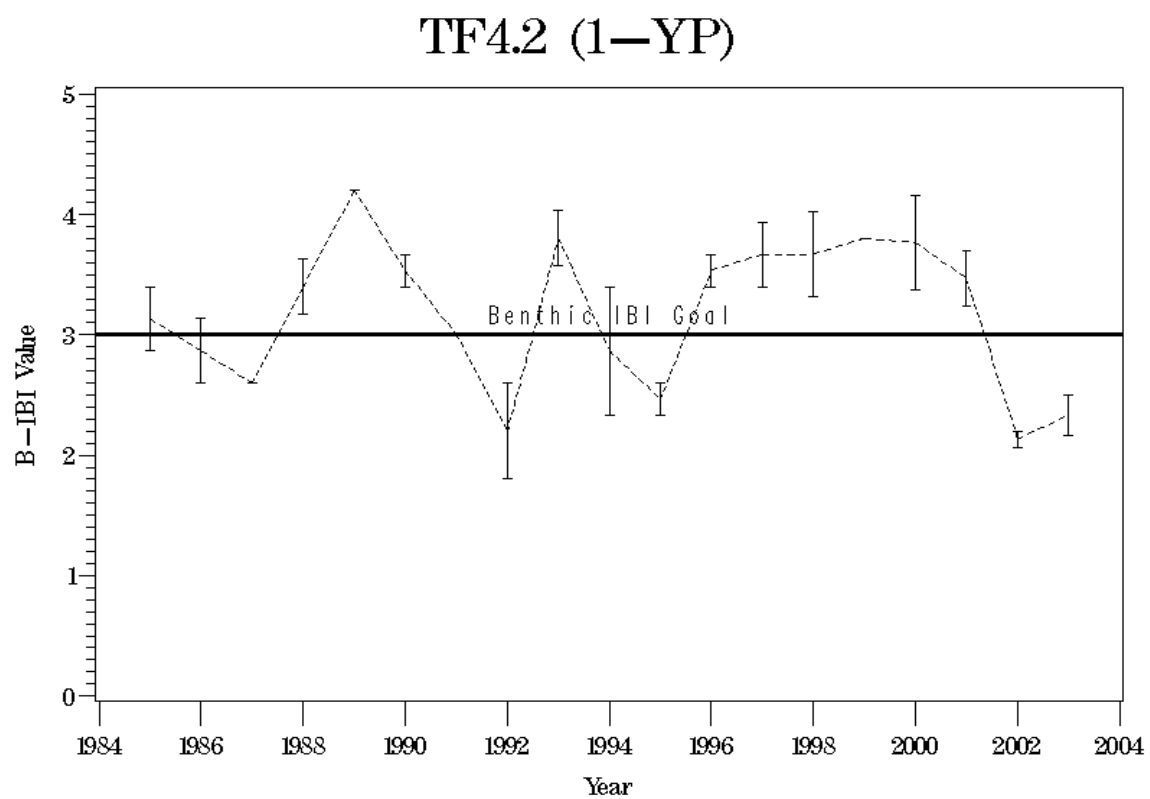


Figure L8. Plot of the benthic IBI against time at station TF4.2 for 1985 through 2003.



## RET4.3 (2-YP)

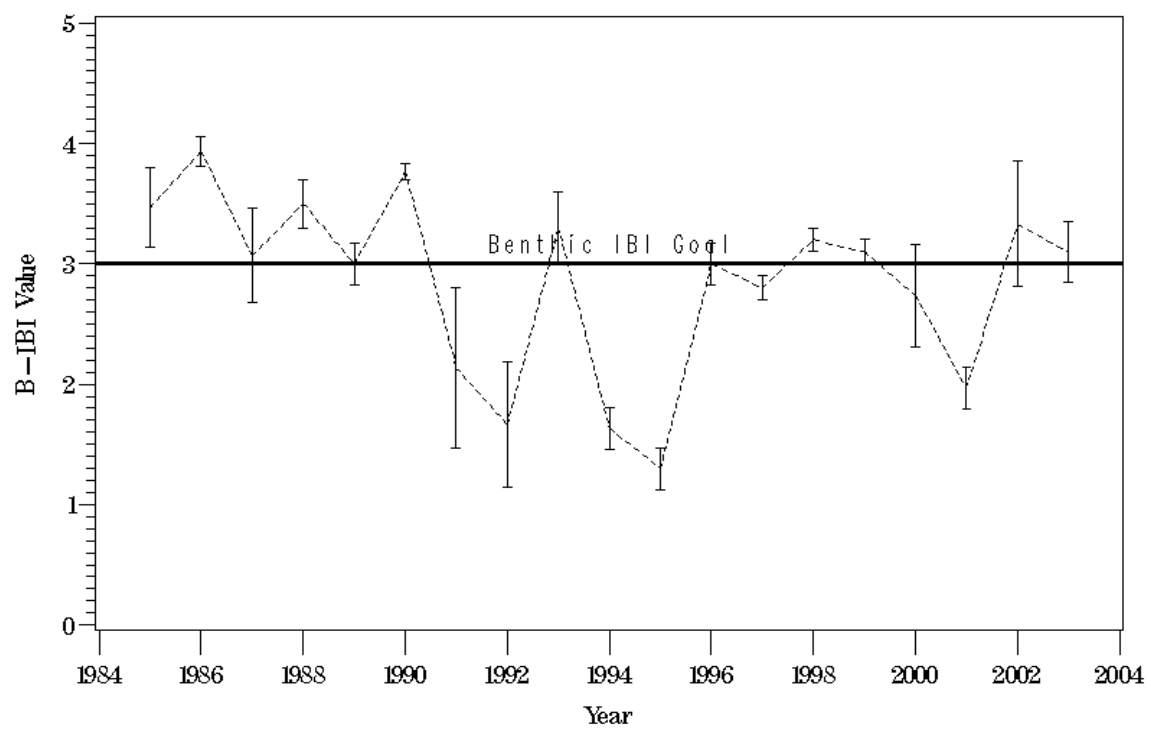


Figure L9. Plot of the benthic IBI against time at station RET4.3 for 1985 through 2003.

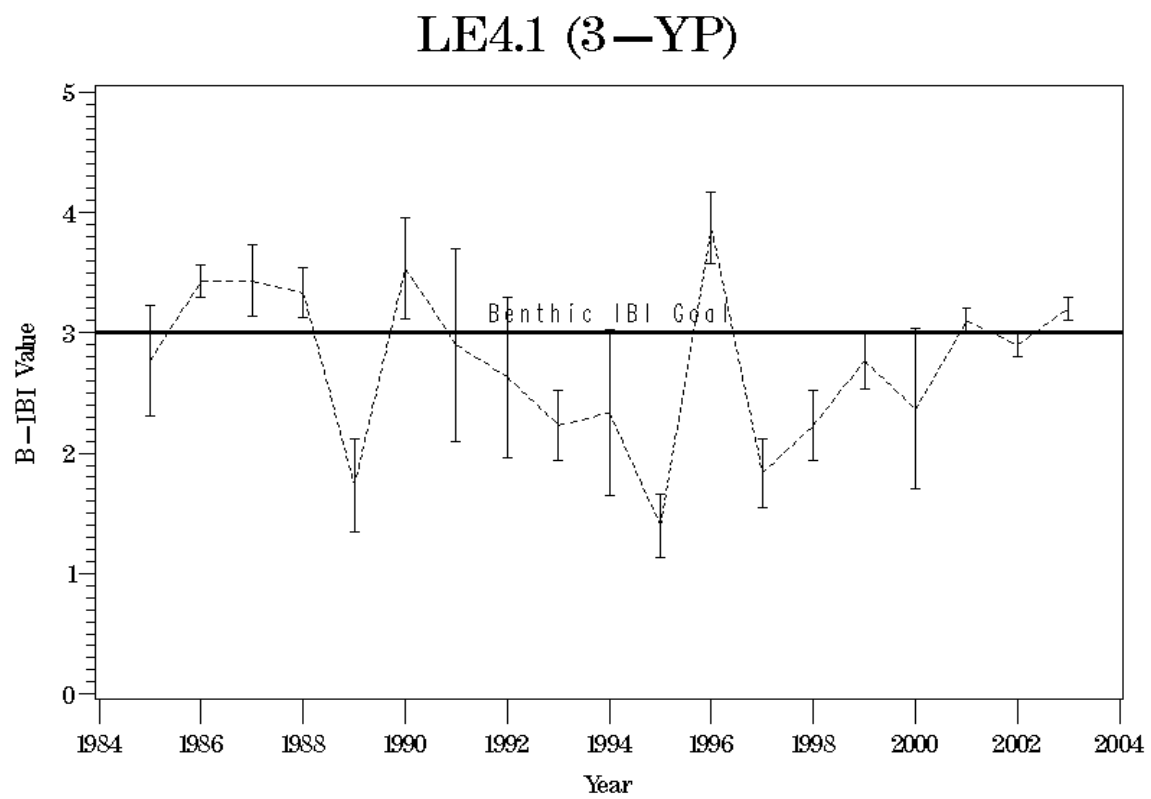


Figure L10. Plot of the benthic IBI against time at station LE4.1 for 1985 through 2003.

## LE4.3 (4-YP)

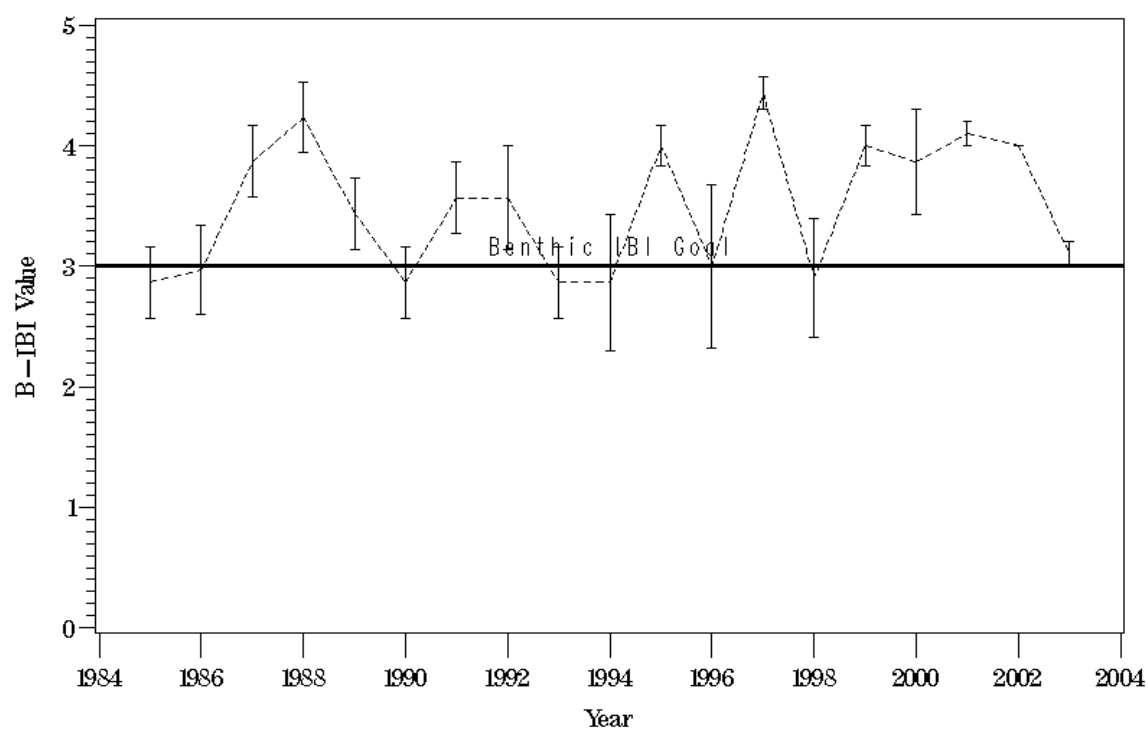


Figure L11. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2003.

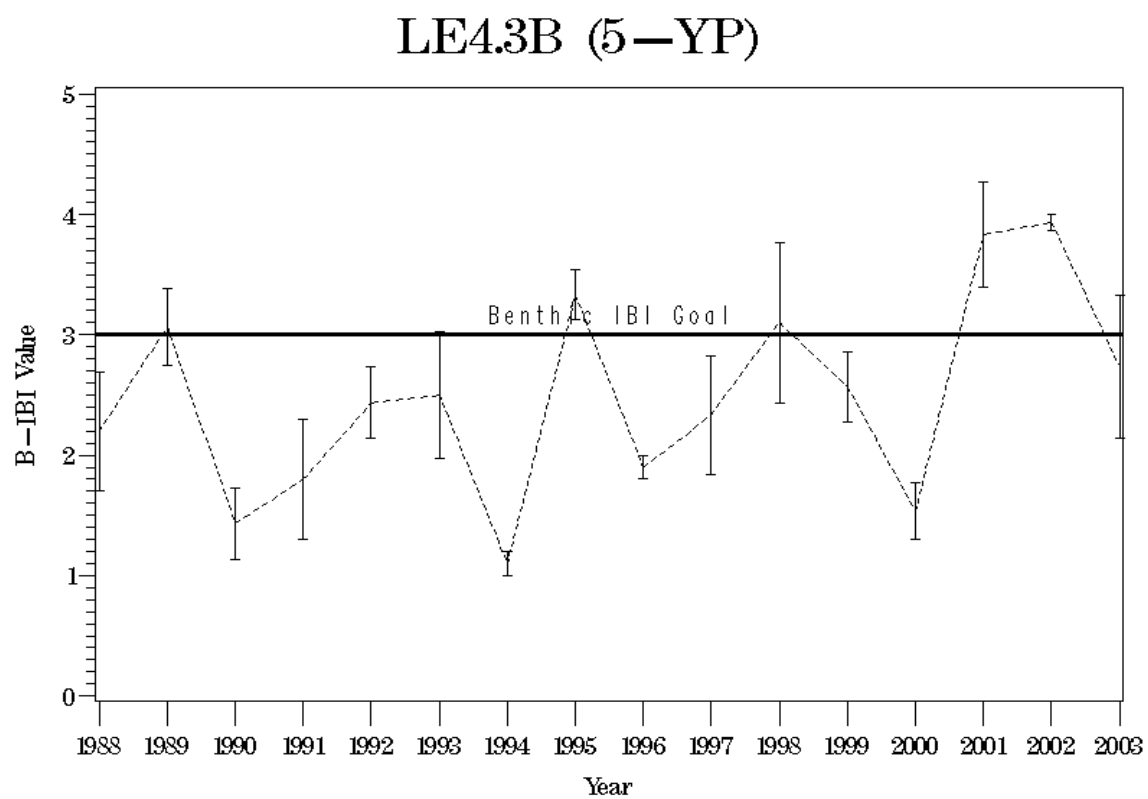


Figure L12. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2003.

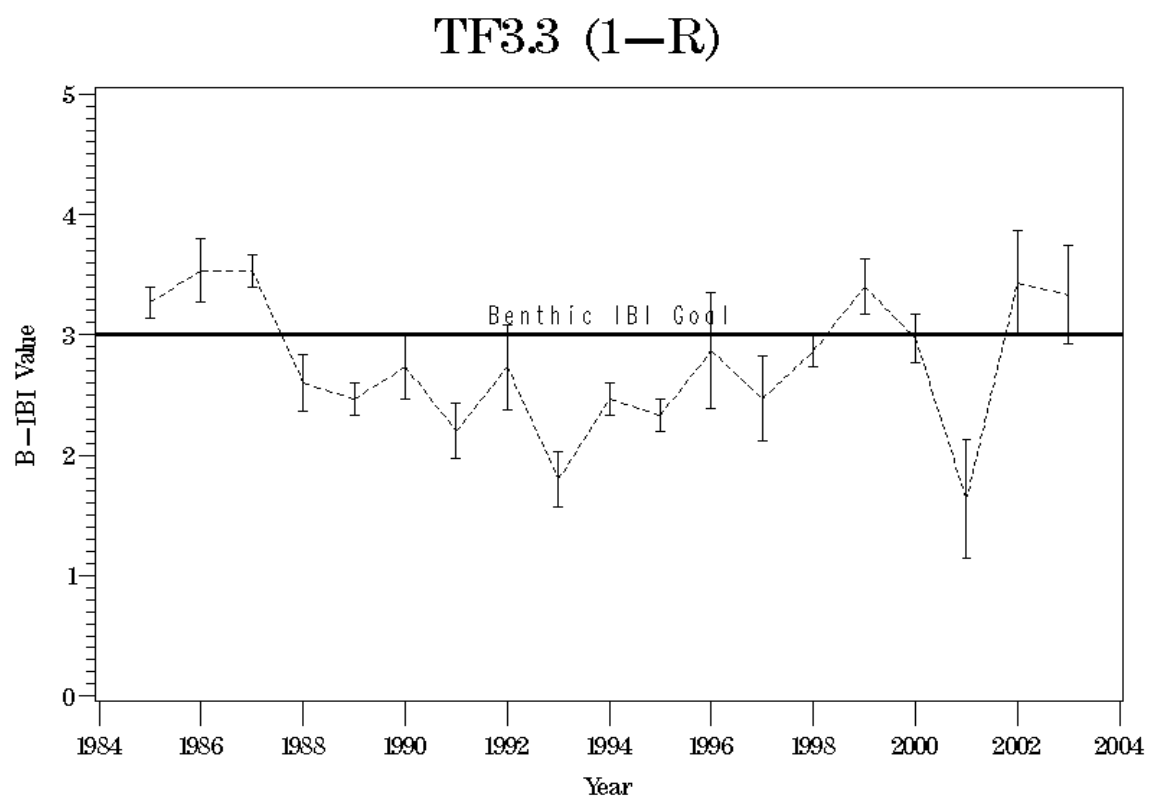


Figure L13. Plot of the benthic IBI against time at station TF3.3 for 1985 through 2003.

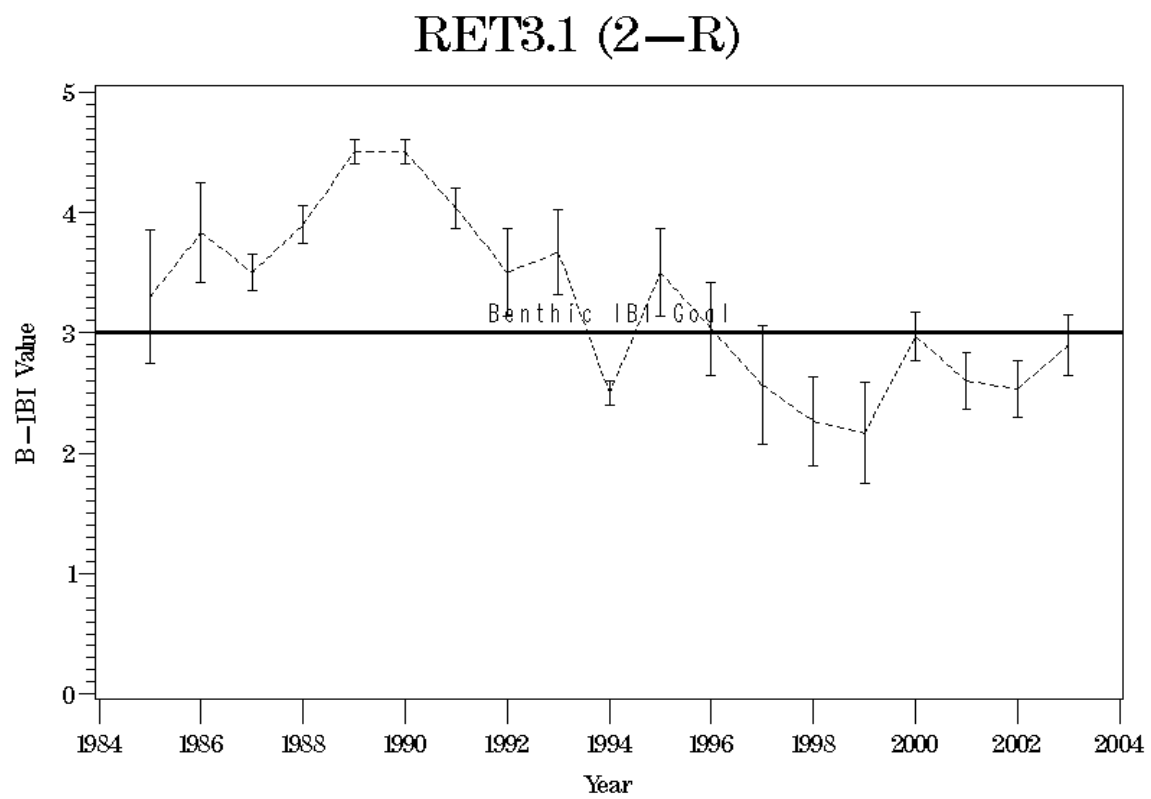


Figure L14. Plot of the benthic IBI against time at station RET3.1 for 1985 through 2003.

### LE3.2 (3-R)

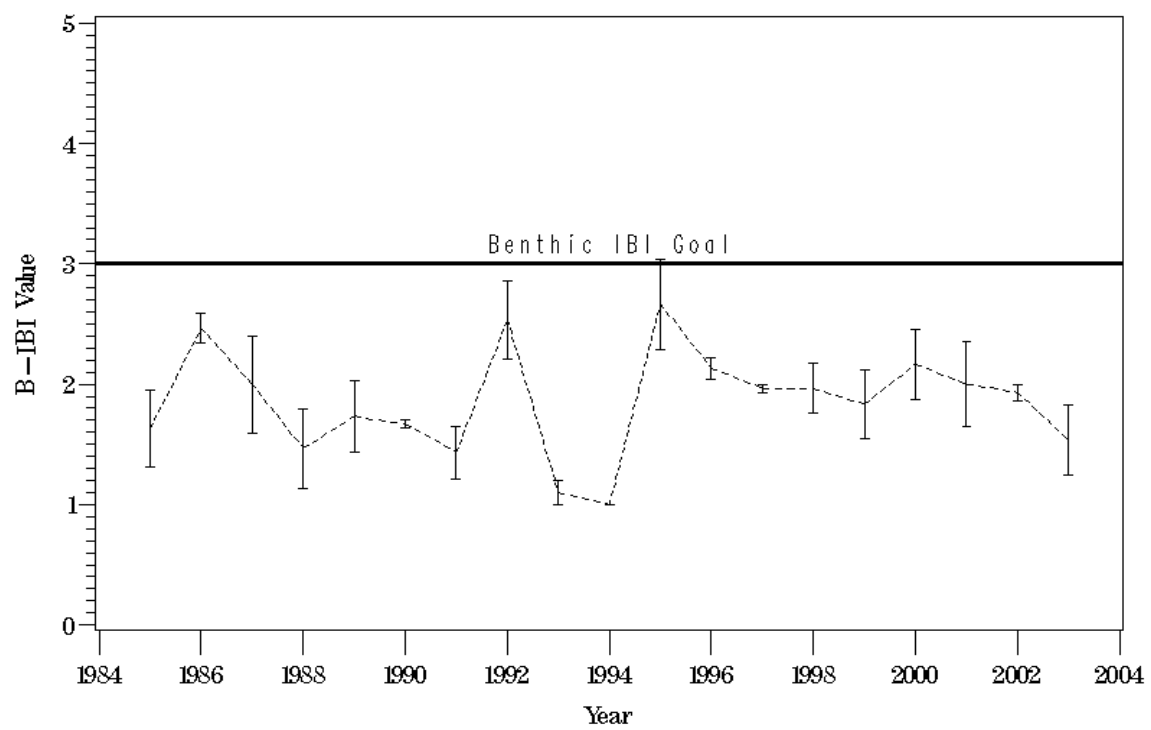


Figure L15. Plot of the benthic IBI against time at station LE3.2 for 1985 through 2003.

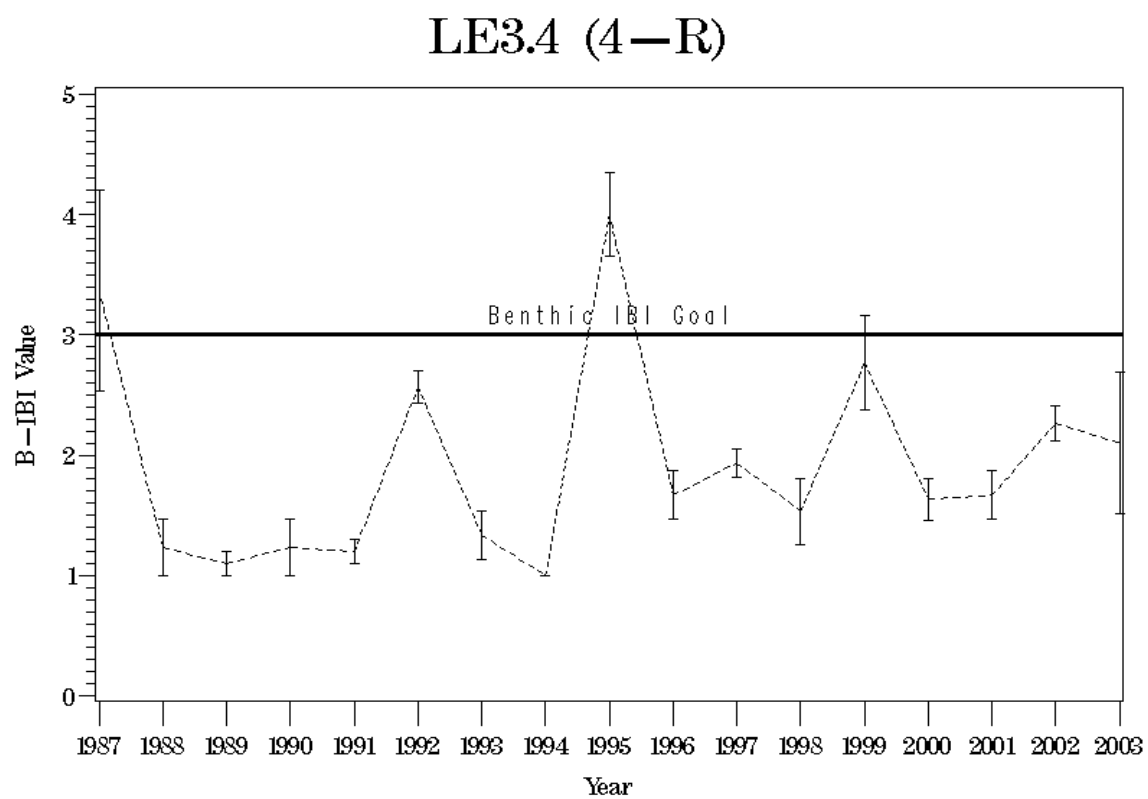


Figure L16. Plot of the benthic IBI against time at station LE3.4 for 1985 through 2003.



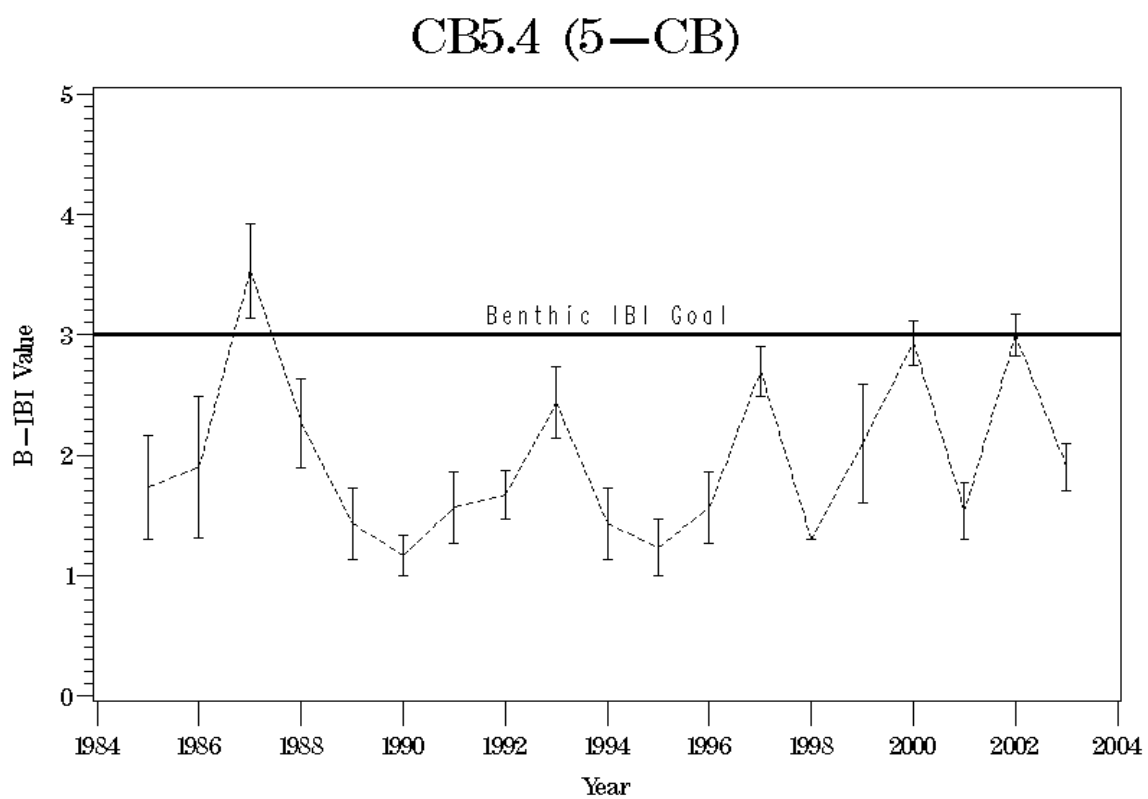


Figure L17. Plot of the benthic IBI against time at station CB5.4 for 1985 through 2003.

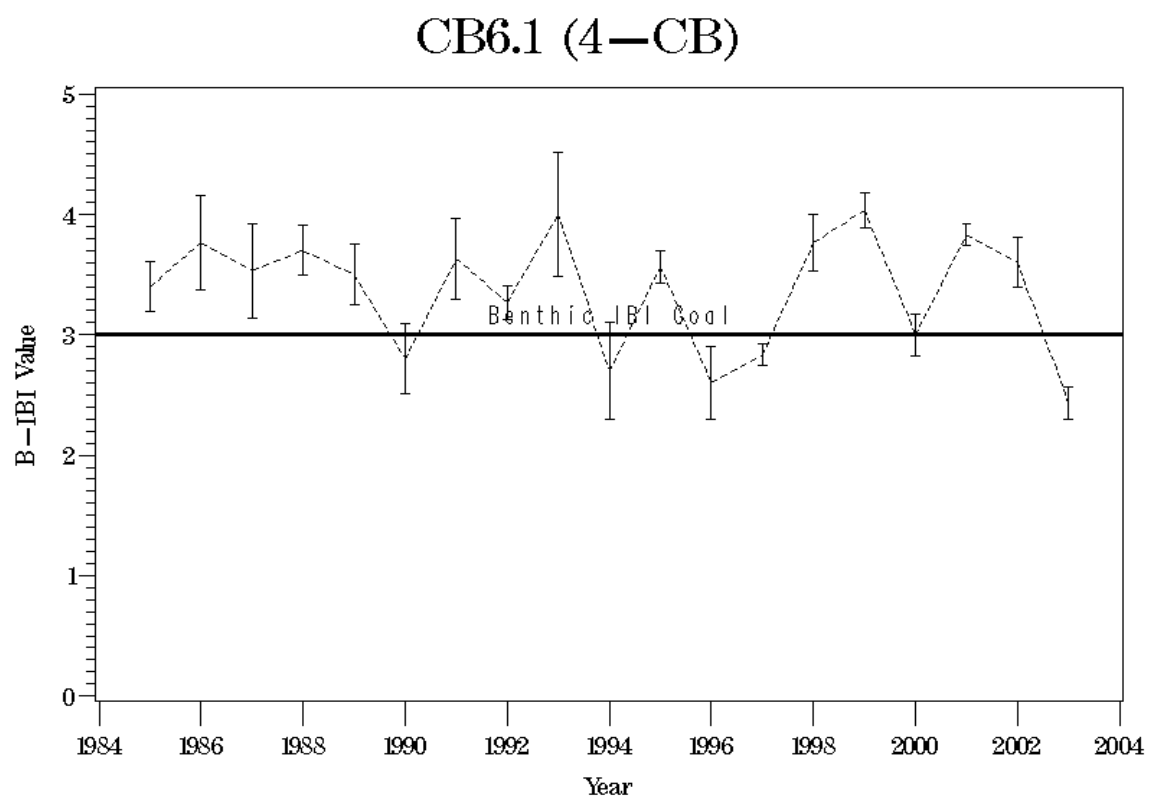


Figure L18. Plot of the benthic IBI against time at station CB6.1 for 1985 through 2003.

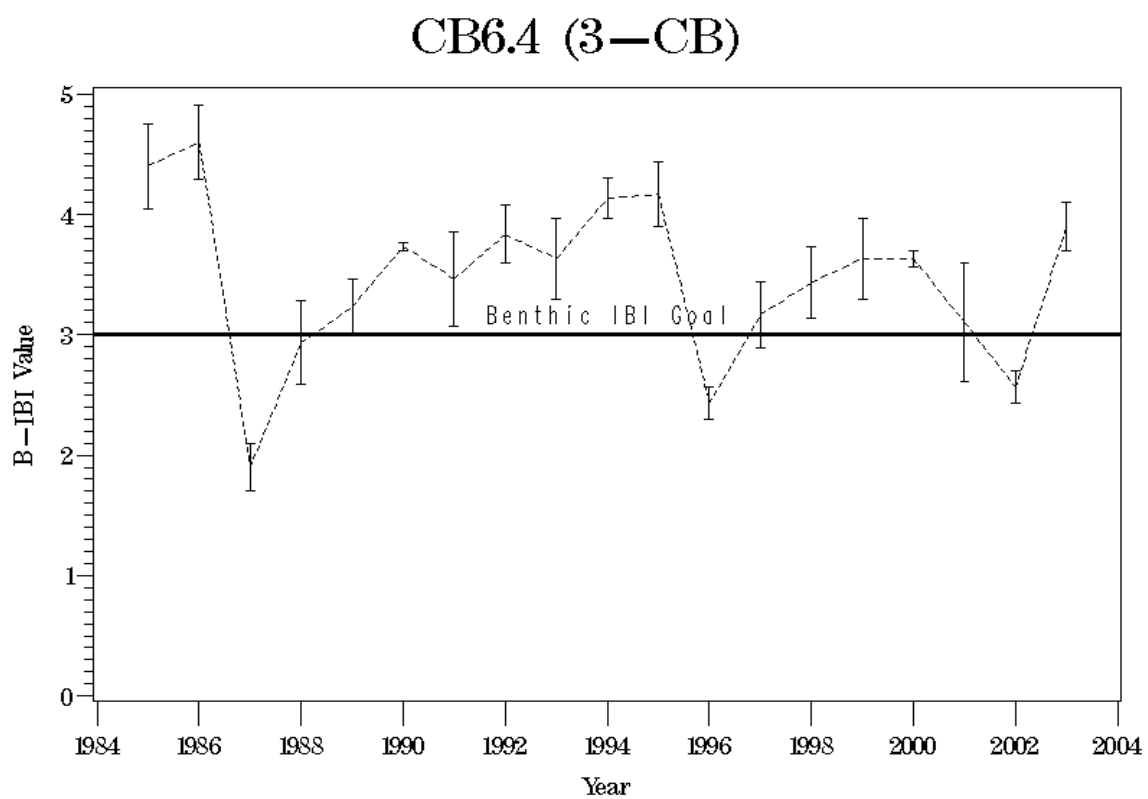


Figure L19. Plot of the benthic IBI against time at station CB6.4 for 1985 through 2003.

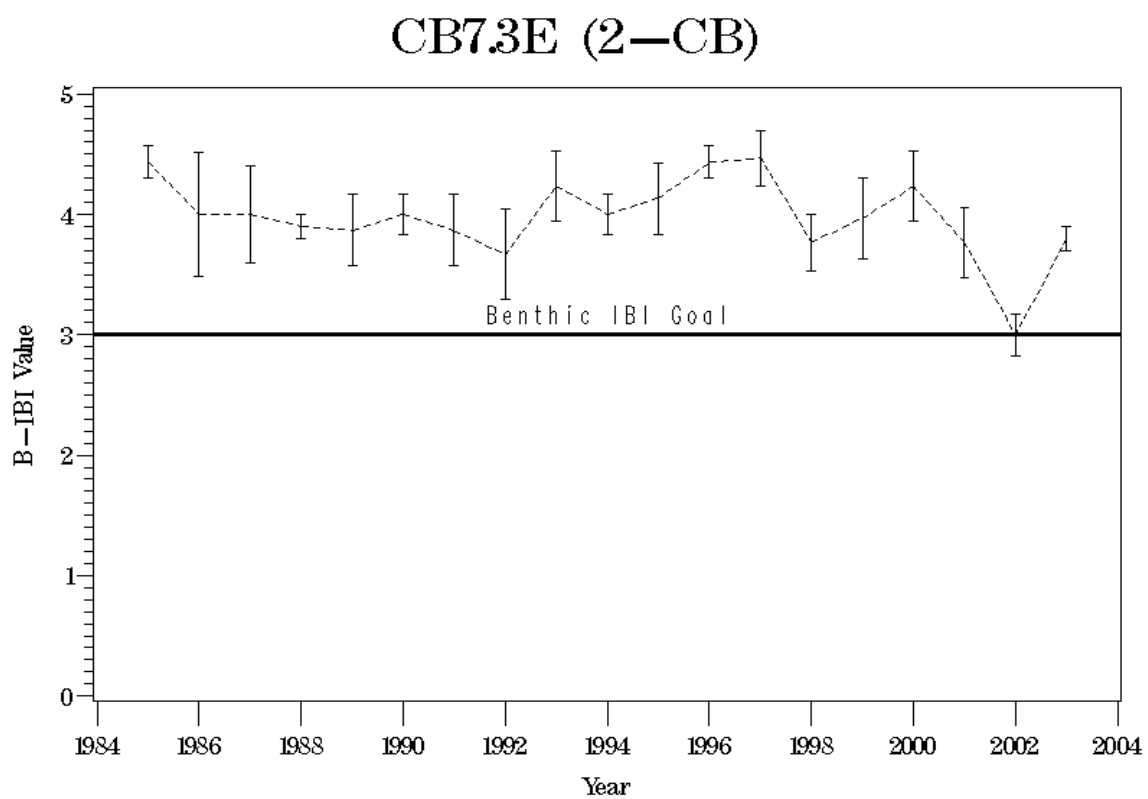


Figure L20. Plot of the benthic IBI against time at station CB7.3E for 1985 through 2003.

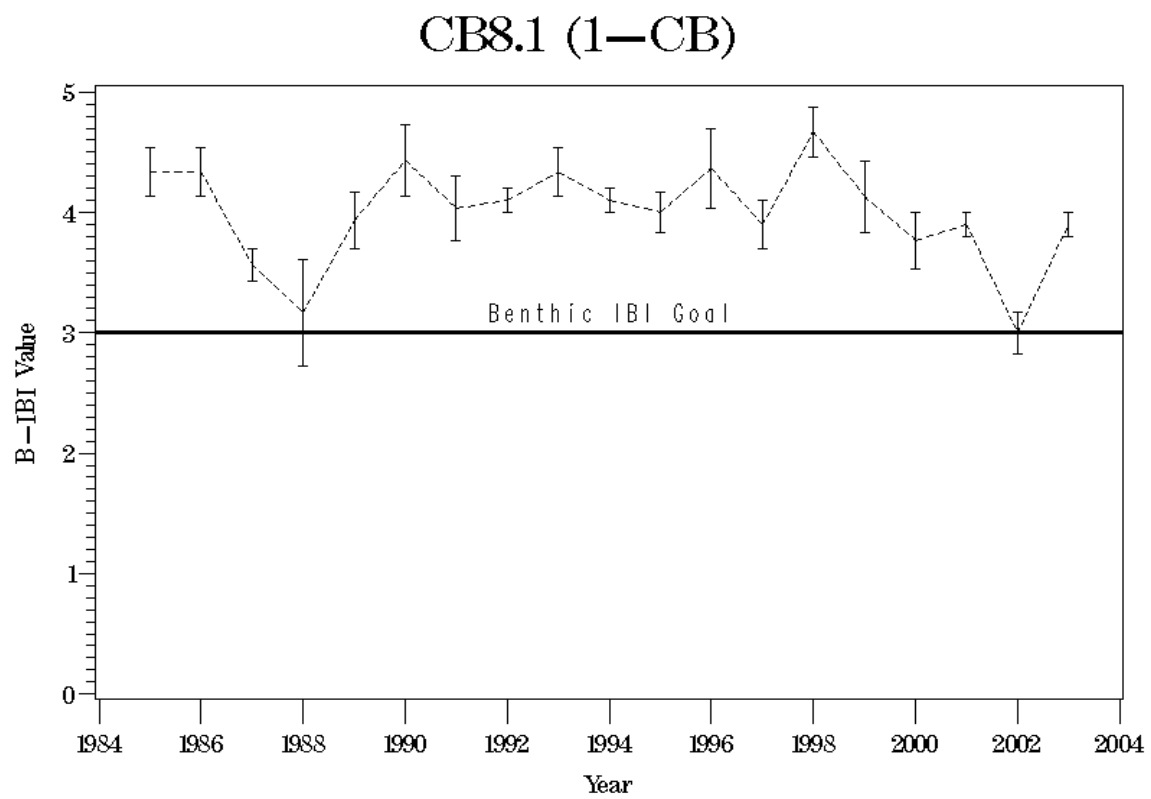


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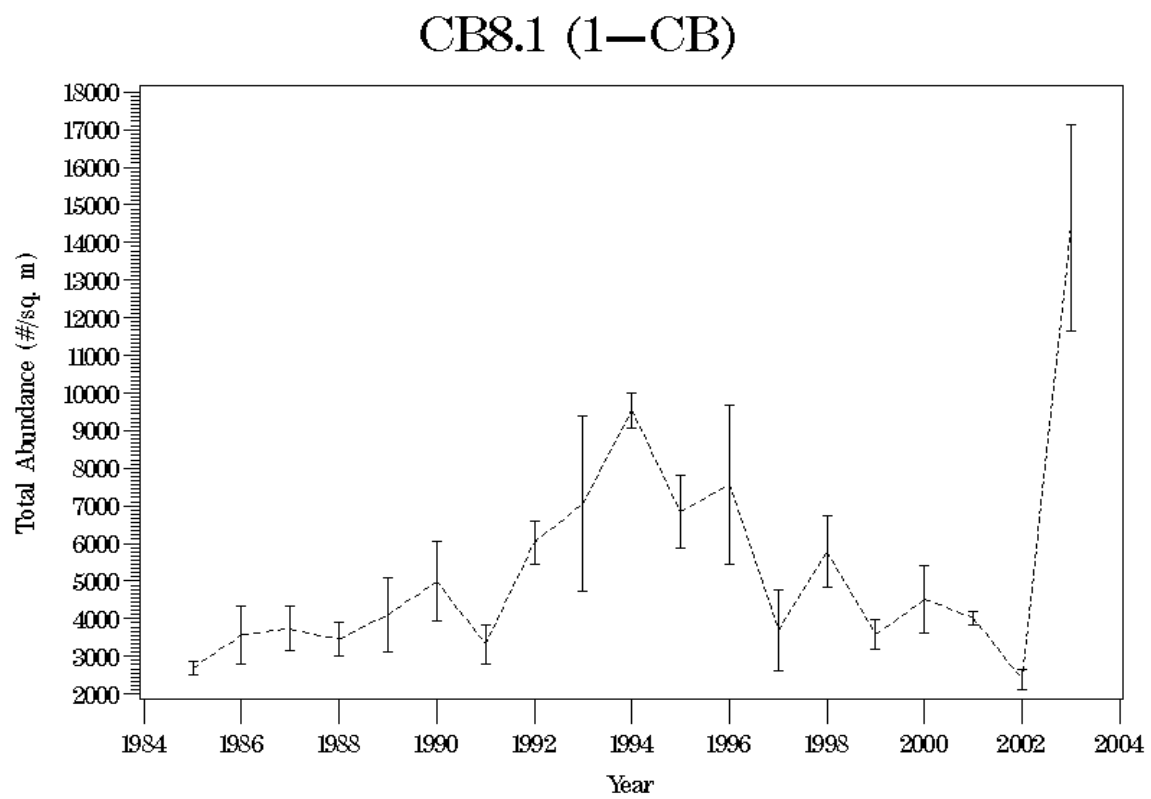


Figure M1. Plot of total benthic community abundance at station CB8.1 for 1985 through 2004.

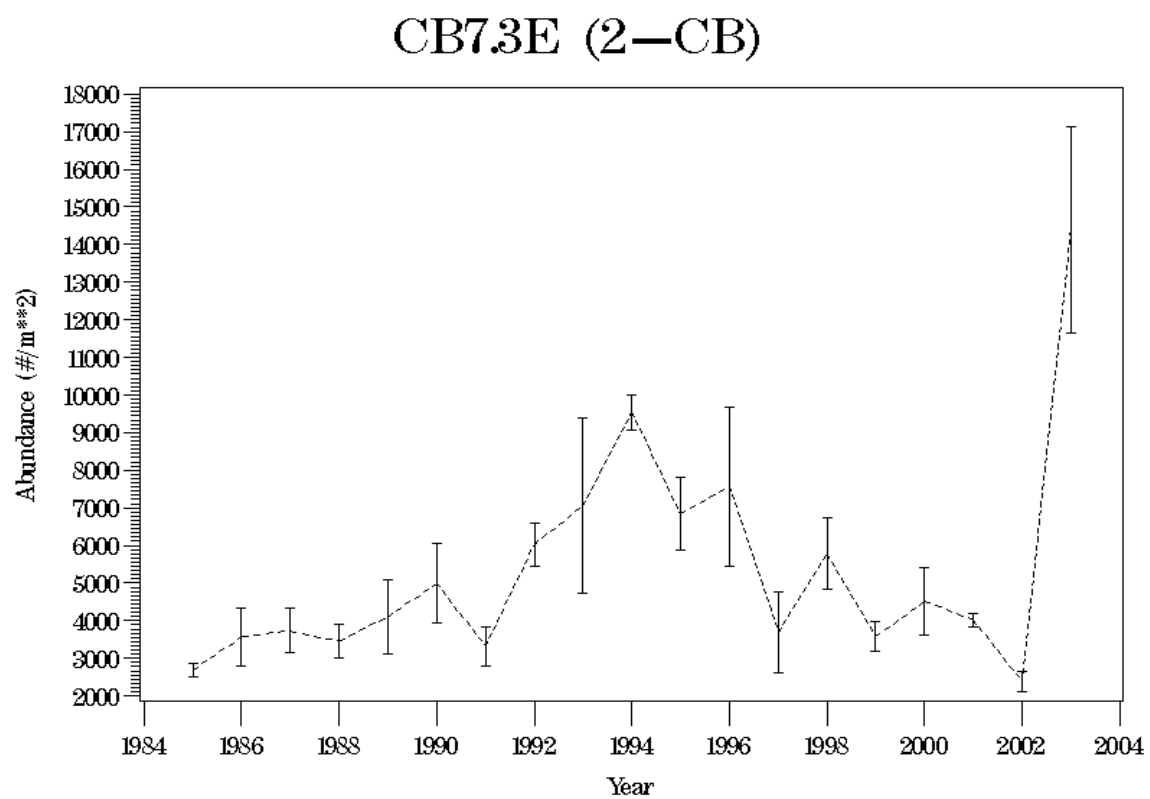


Figure M2. Plot of total benthic community abundance at station CB7.3E for 1985 through 2004.

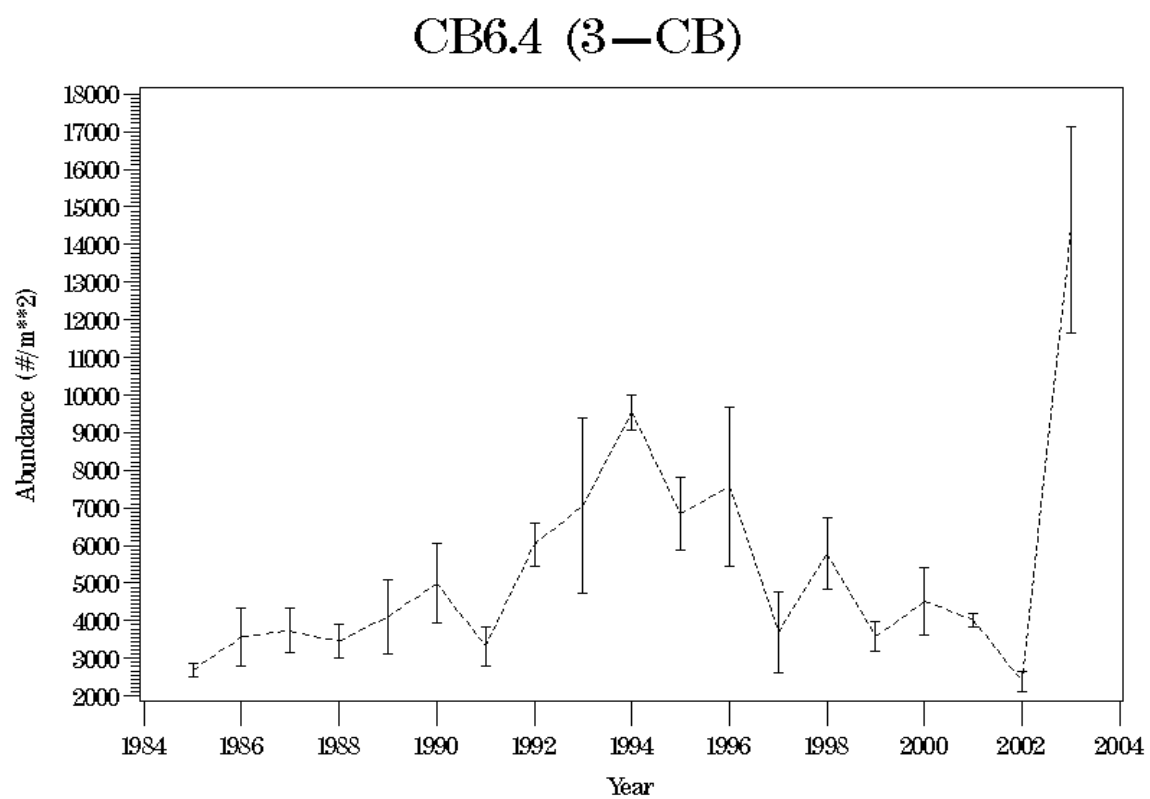


Figure M3. Plot of total benthic community abundance at station CB6.4 for 1985 through 2004.



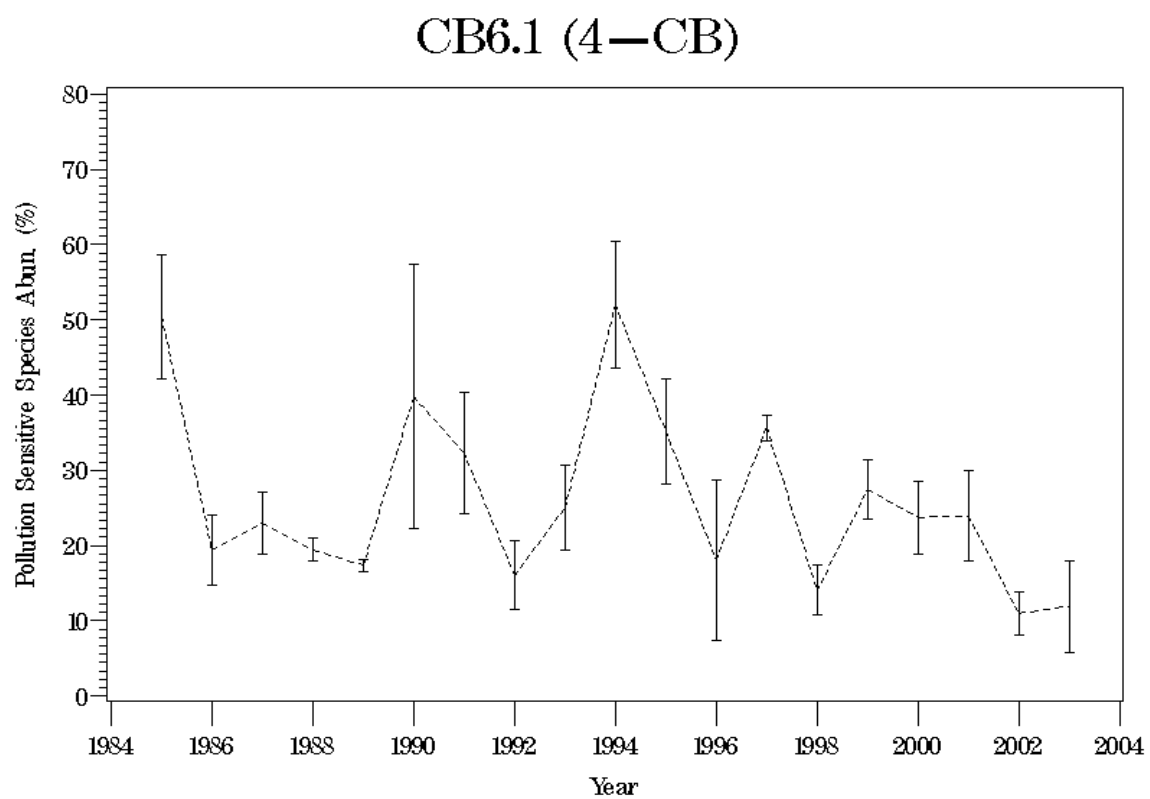


Figure M4. Plot of total benthic community abundance at station CB6.1 for 1985 through 2004.

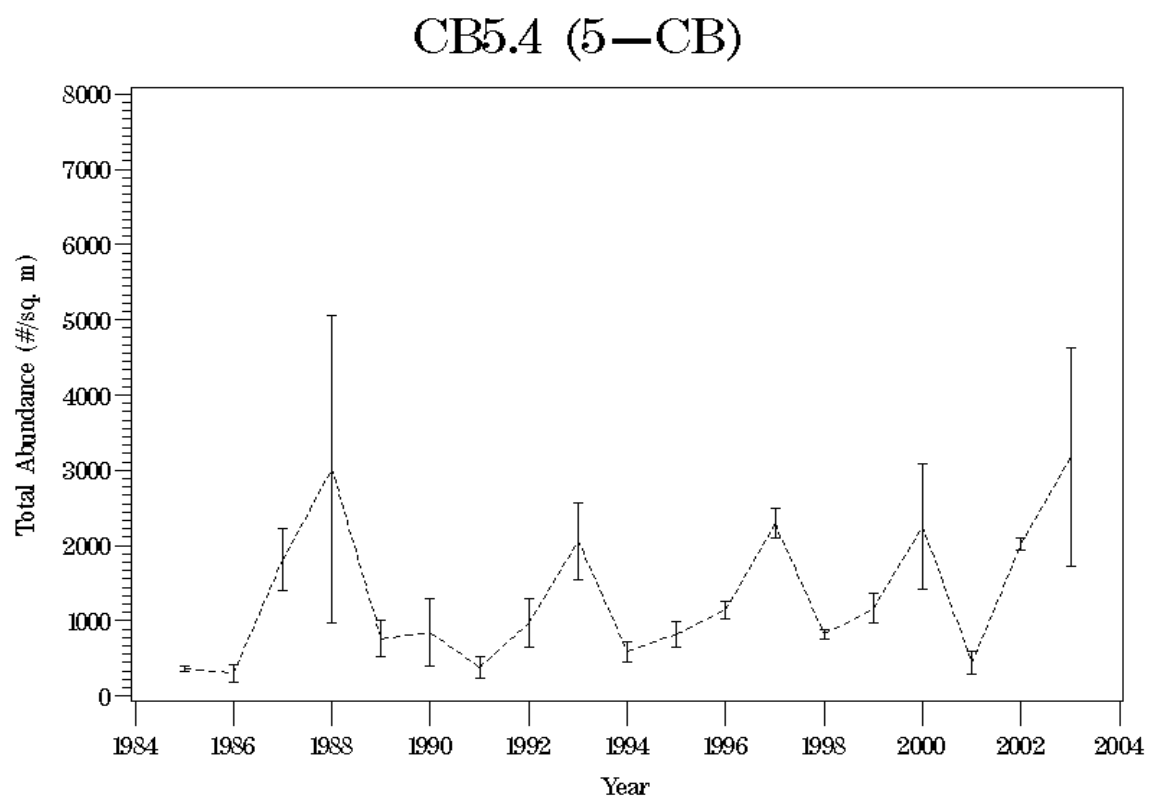


Figure M5. Plot of total benthic community abundance at station CB5.4 for 1985 through 2004.

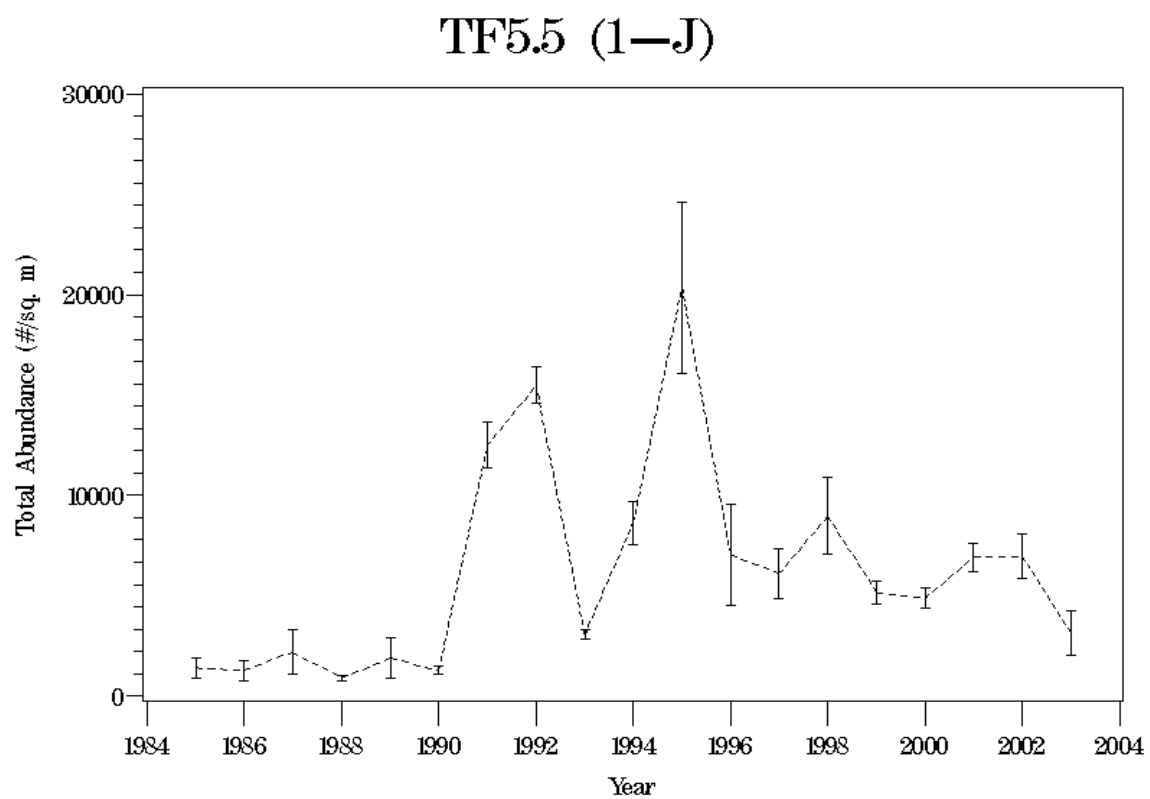


Figure M6. Plot of total benthic community abundance at station TF5.5 for 1985 through 2004.

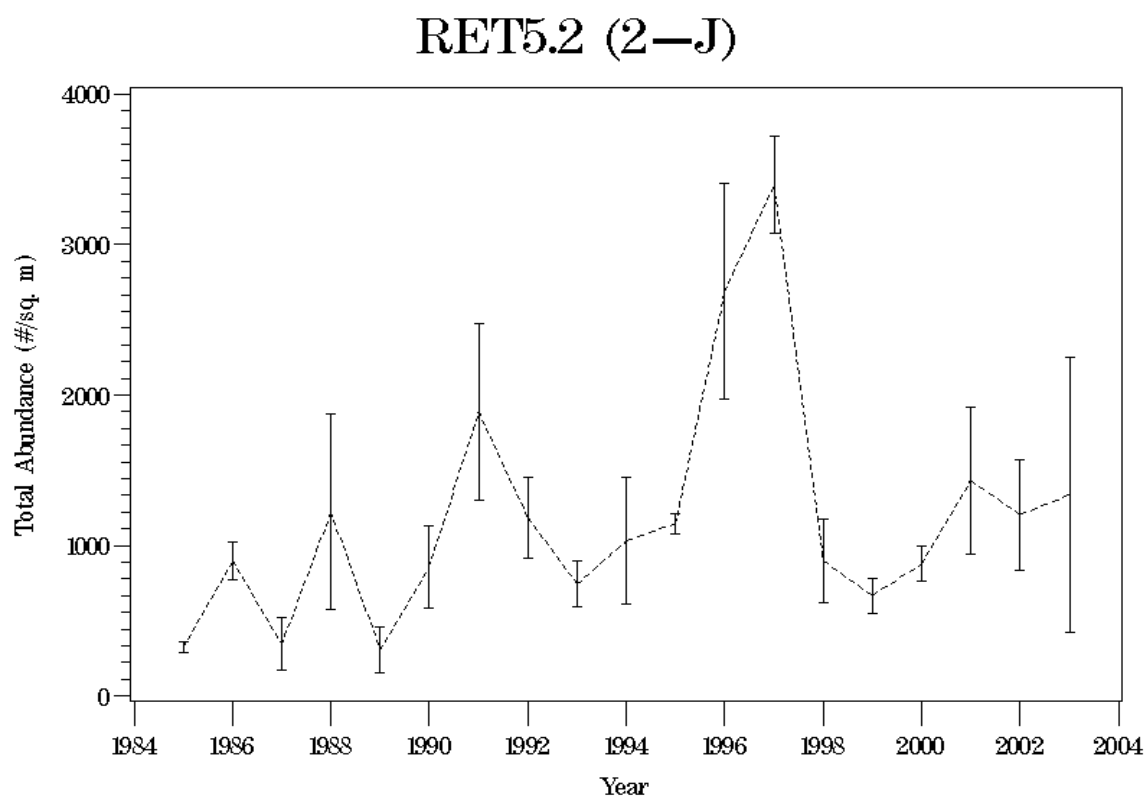


Figure M7. Plot of total benthic community abundance at station RET5.2 for 1985 through 2004.

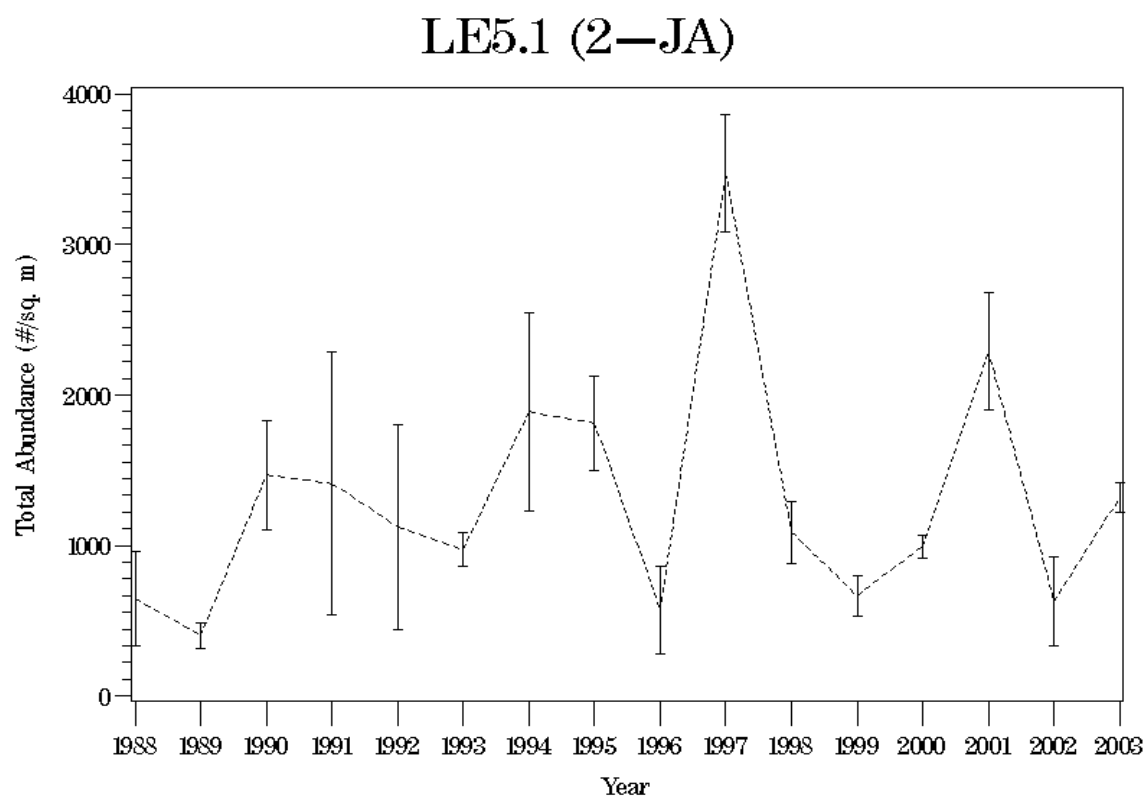


Figure M8. Plot of total benthic community abundance at station LE5.1 for 1985 through 2004.

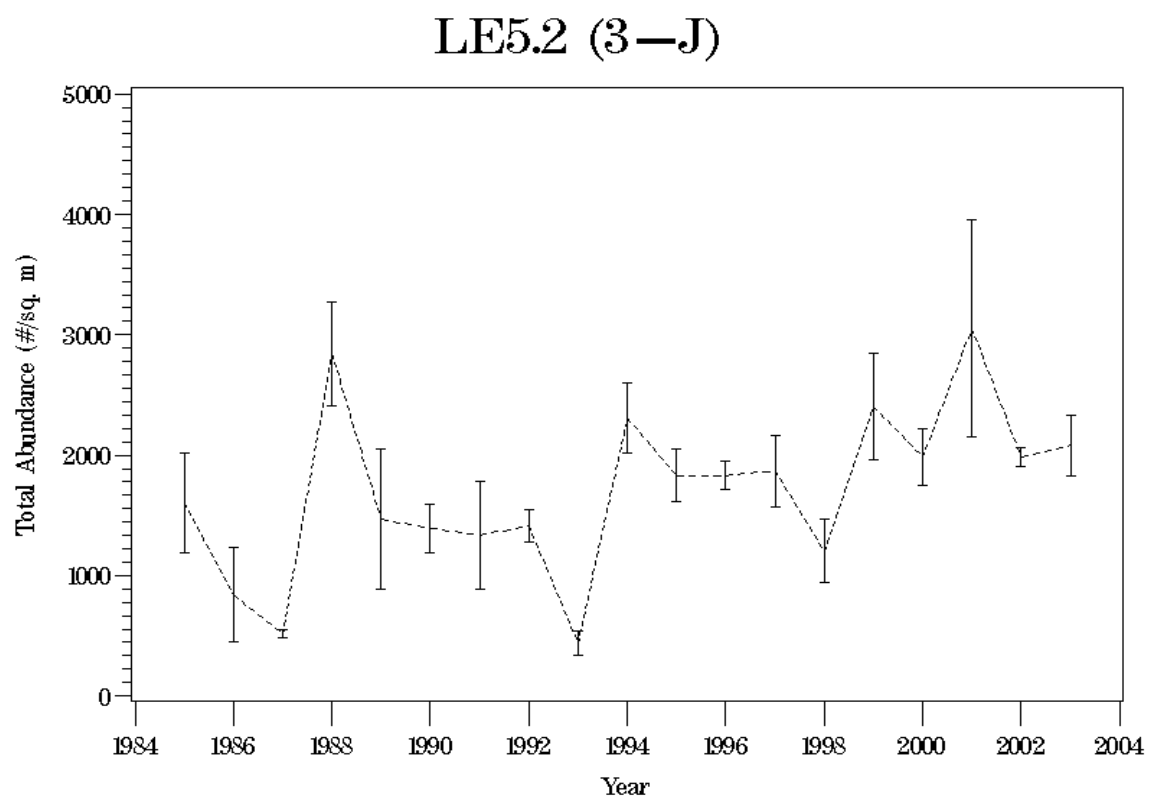


Figure M9. Plot of total benthic community abundance at station LE5.2 for 1985 through 2004.

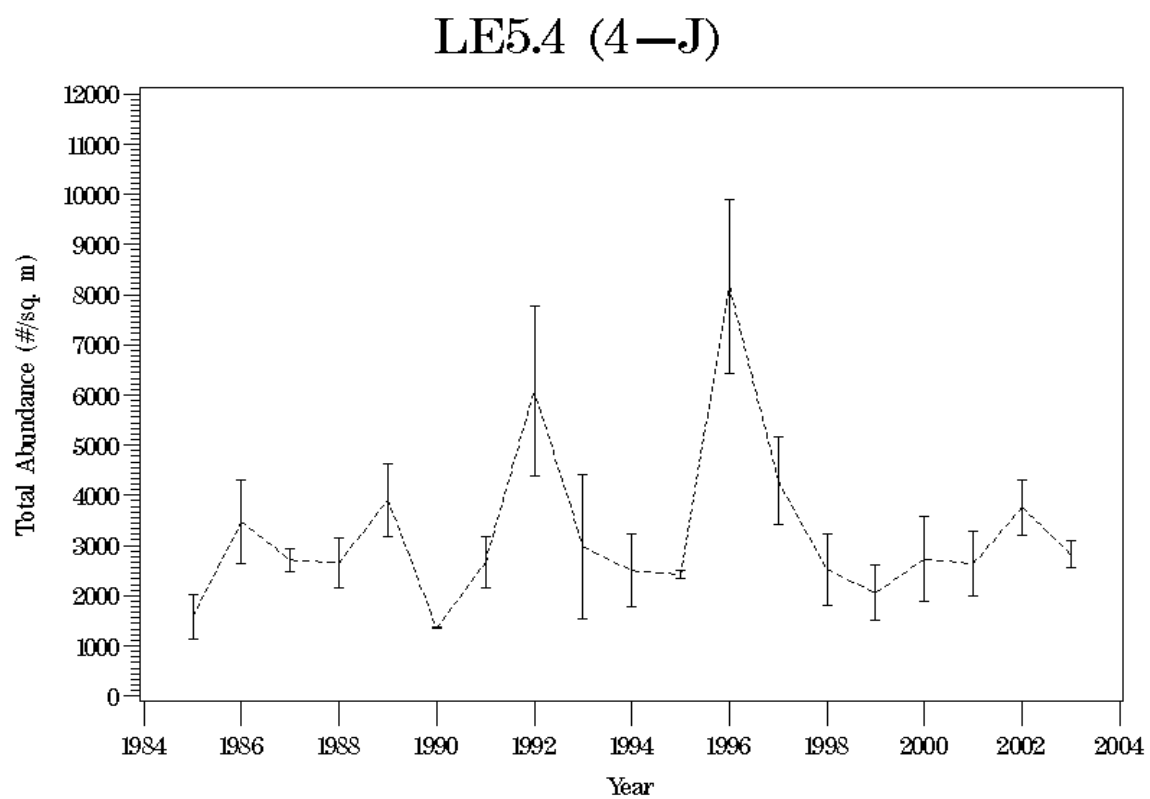


Figure M10. Plot of total benthic community abundance at station LE5.4 for 1985 through 2004.

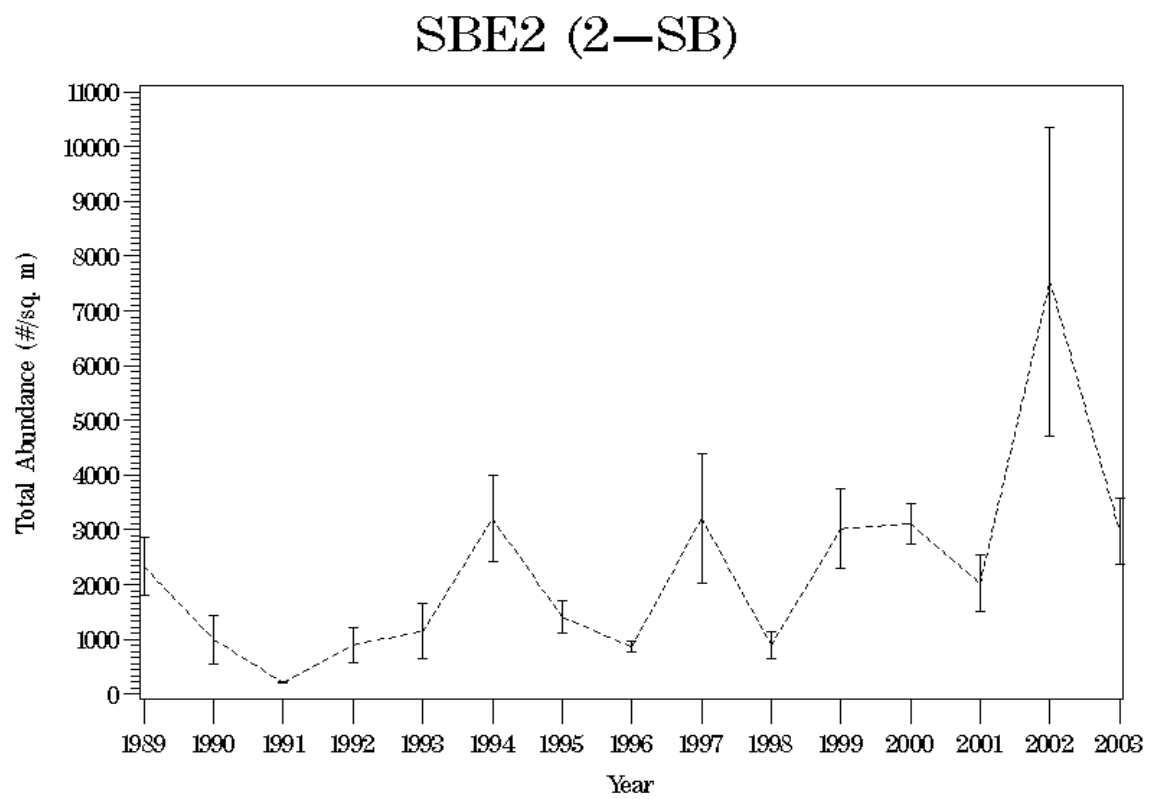


Figure M11. Plot of total benthic community abundance at station SBE2 for 1985 through 2004.



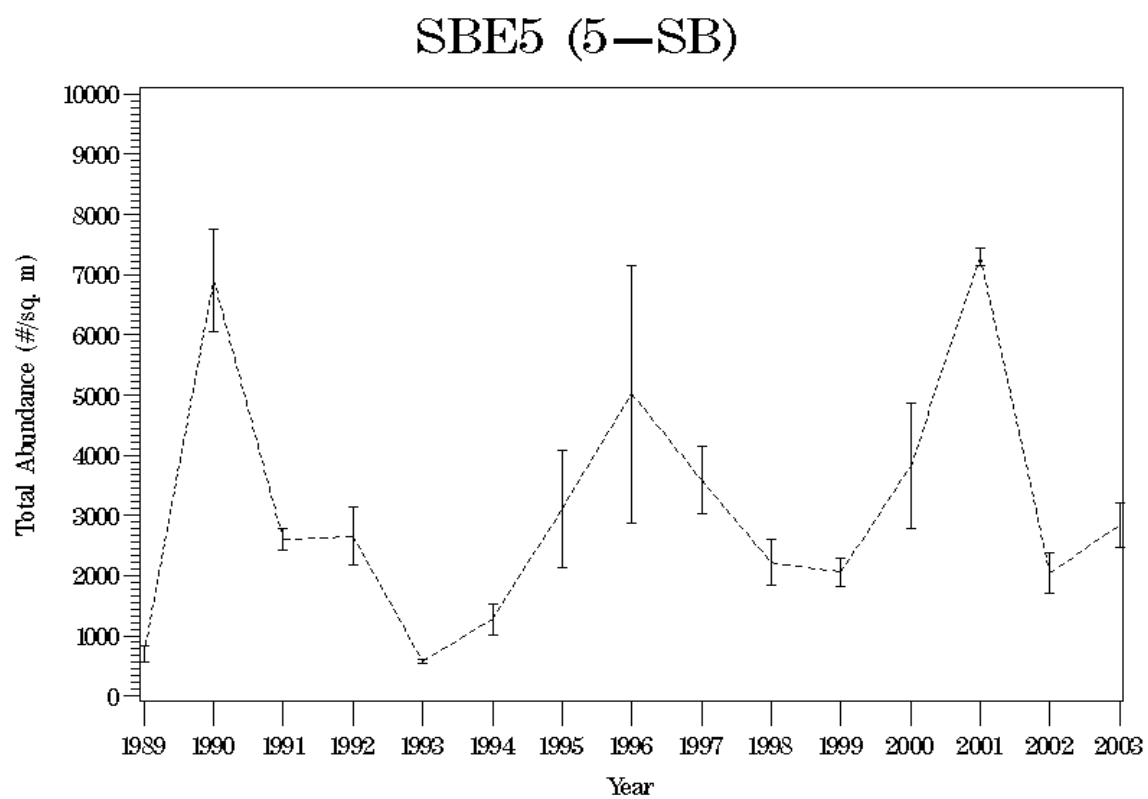


Figure M12. Plot of total benthic community abundance at station SBE5 for 1985 through 2004.

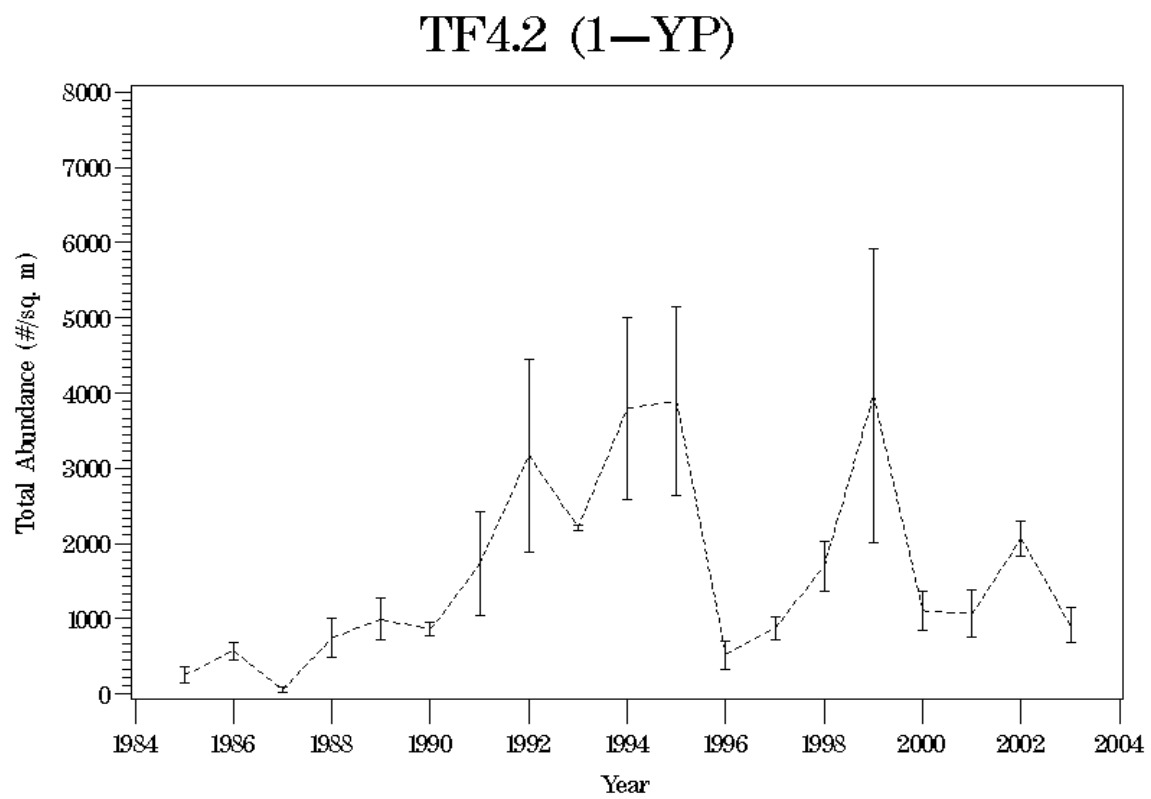


Figure M13. Plot of total benthic community abundance at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

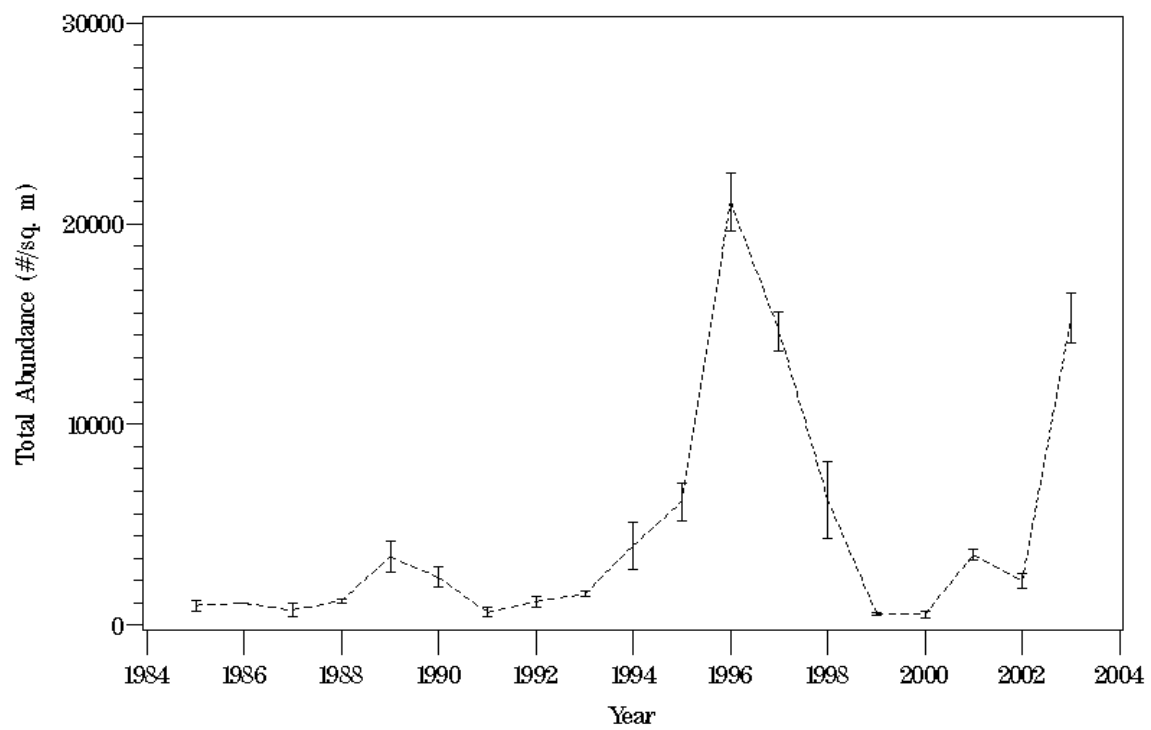


Figure M14. Plot of total benthic community abundance at station TF3.3 for 1985 through 2004.

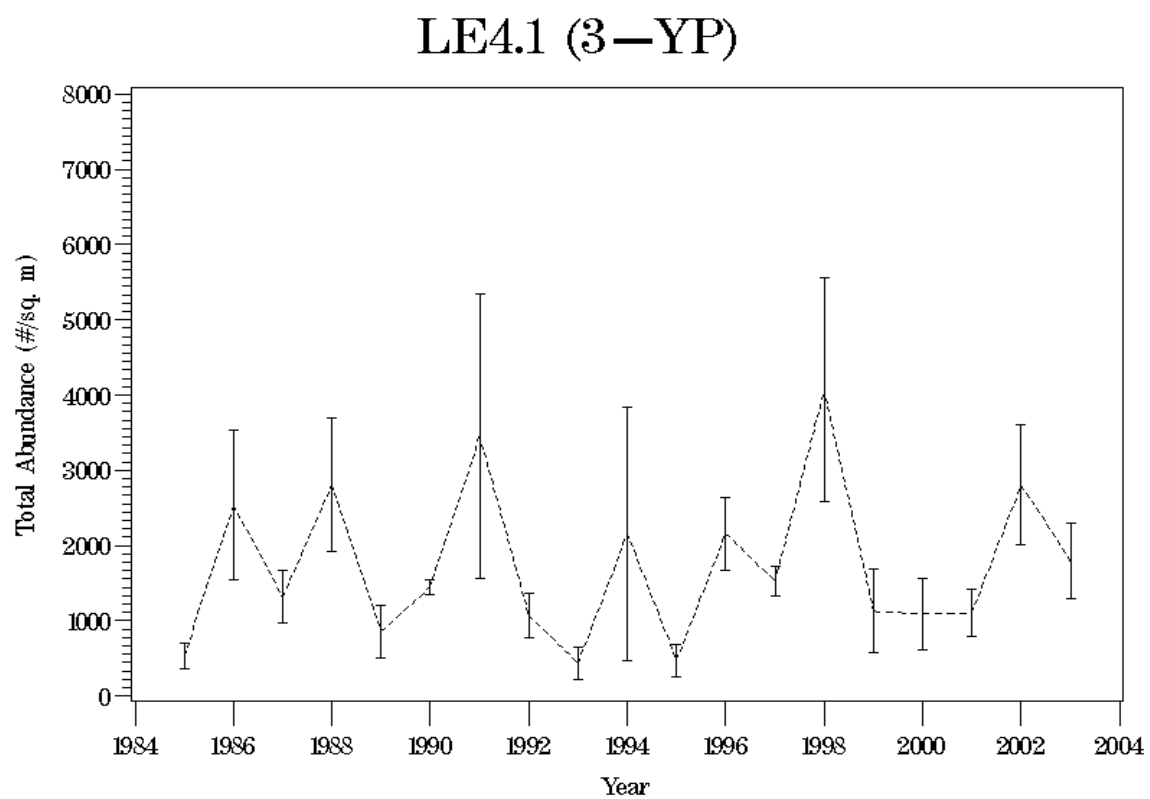


Figure M15. Plot of total benthic community abundance at station LE4.1 for 1985 through 2004.

## LE4.3 (4-YP)

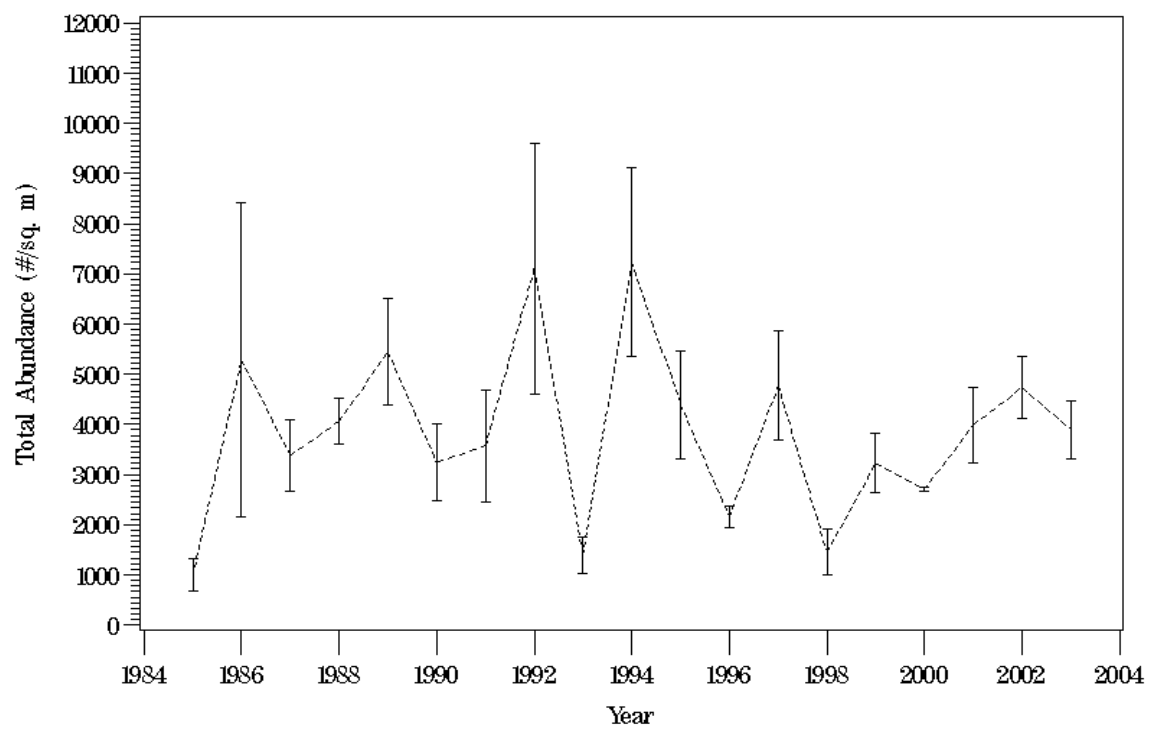


Figure M16. Plot of total benthic community abundance at station LE4.3 for 1985 through 2004.

## LE4.3B (5-YP)

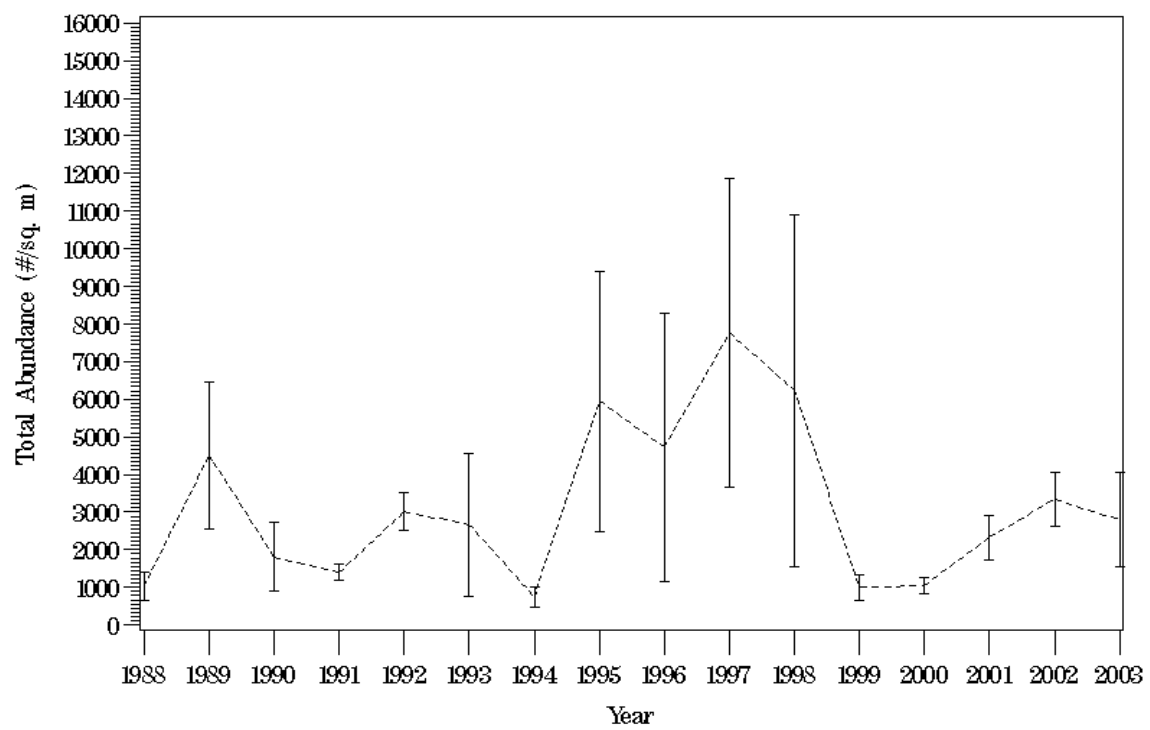


Figure M17. Plot of total benthic community abundance at station LE4.3B for 1985 through 2004.

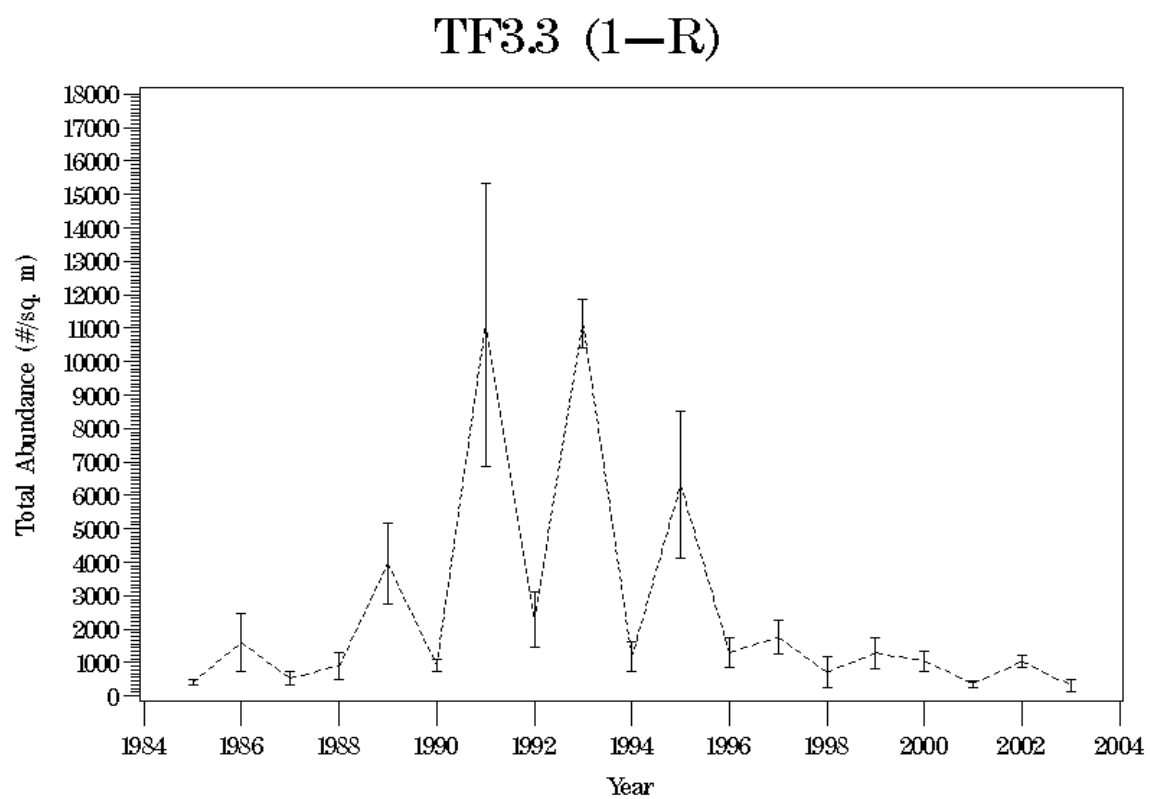


Figure M18. Plot of total benthic community abundance at station TF3.3 for 1985 through 2004.

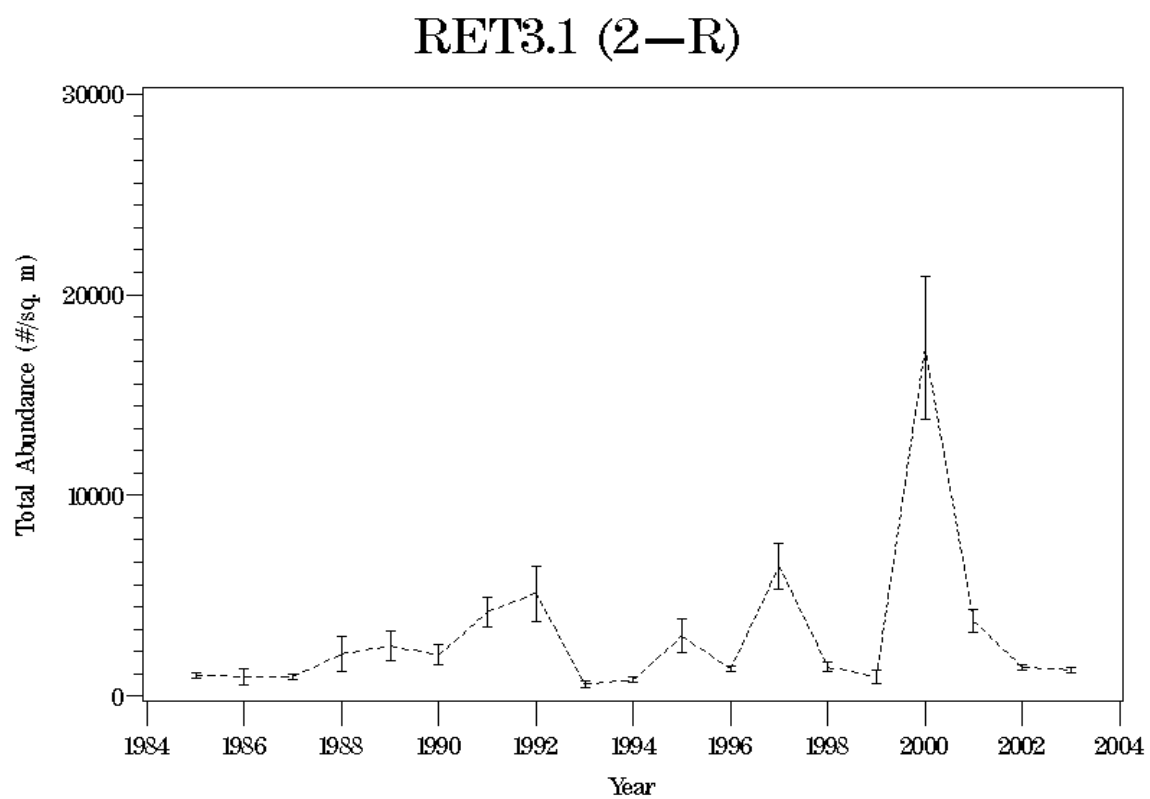


Figure M19. Plot of total benthic community abundance at station RET3.1 for 1985 through 2004.



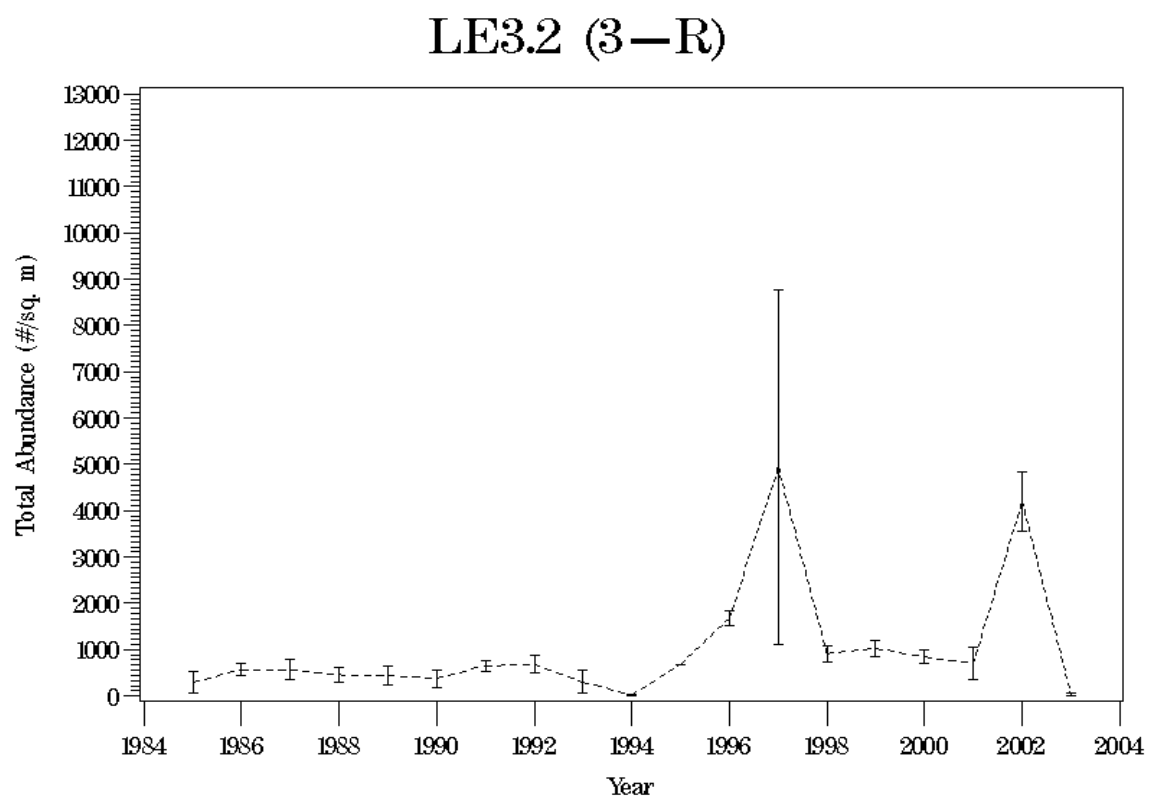


Figure M20. Plot of total benthic community abundance at station LE3.2 for 1985 through 2004.

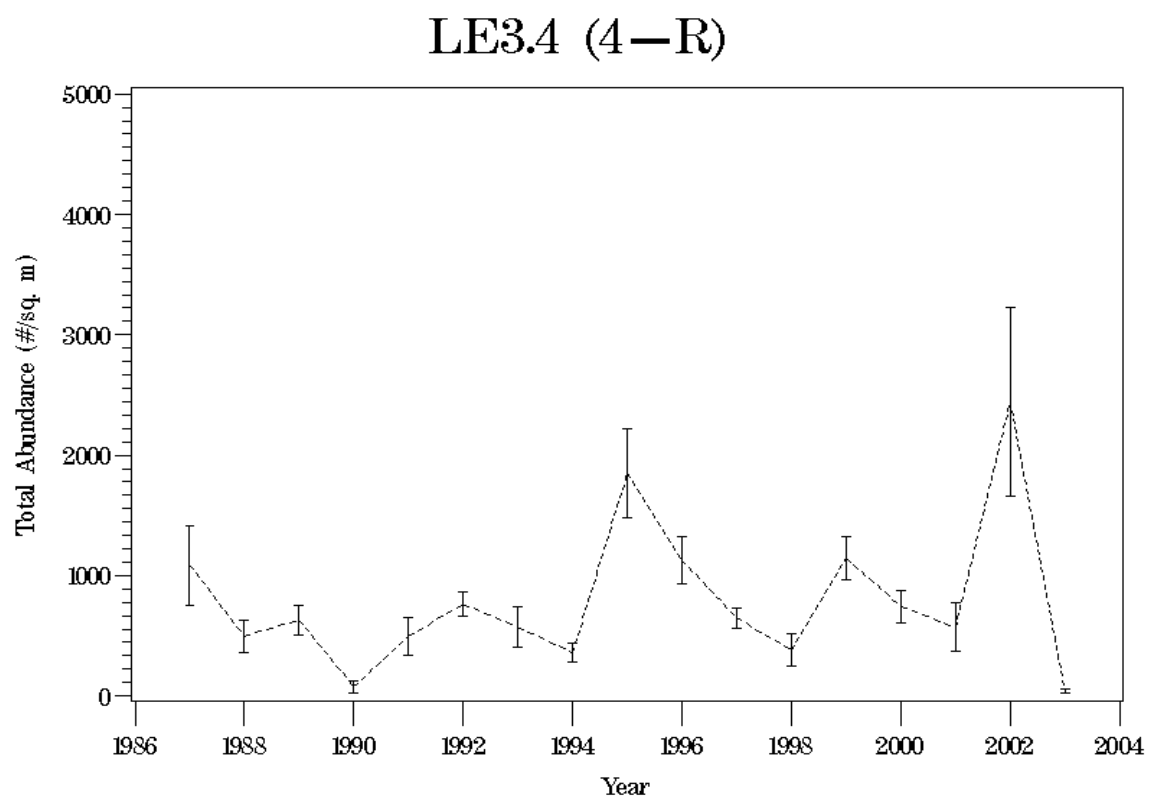


Figure M21. Plot of total benthic community abundance at station LE3.4 for 1985 through 2004.

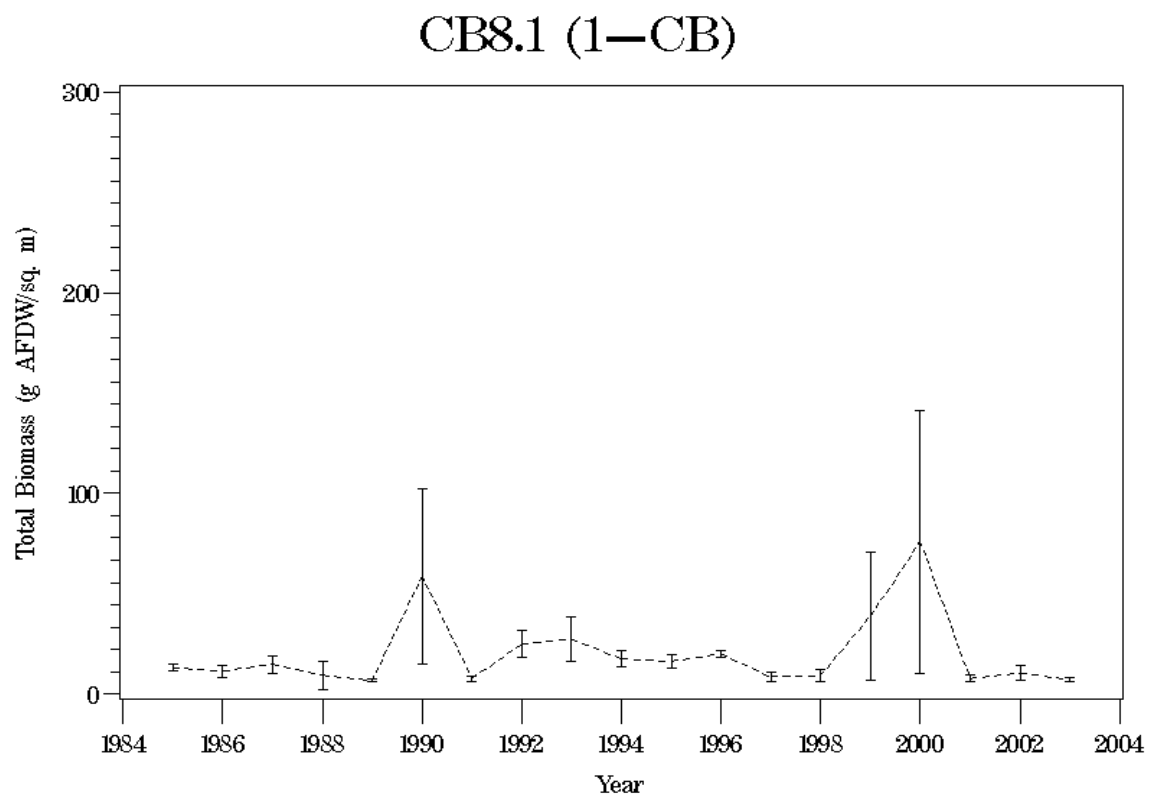


Figure M22. Plot of total benthic community biomass at station CB8.1 for 1985 through 2004.

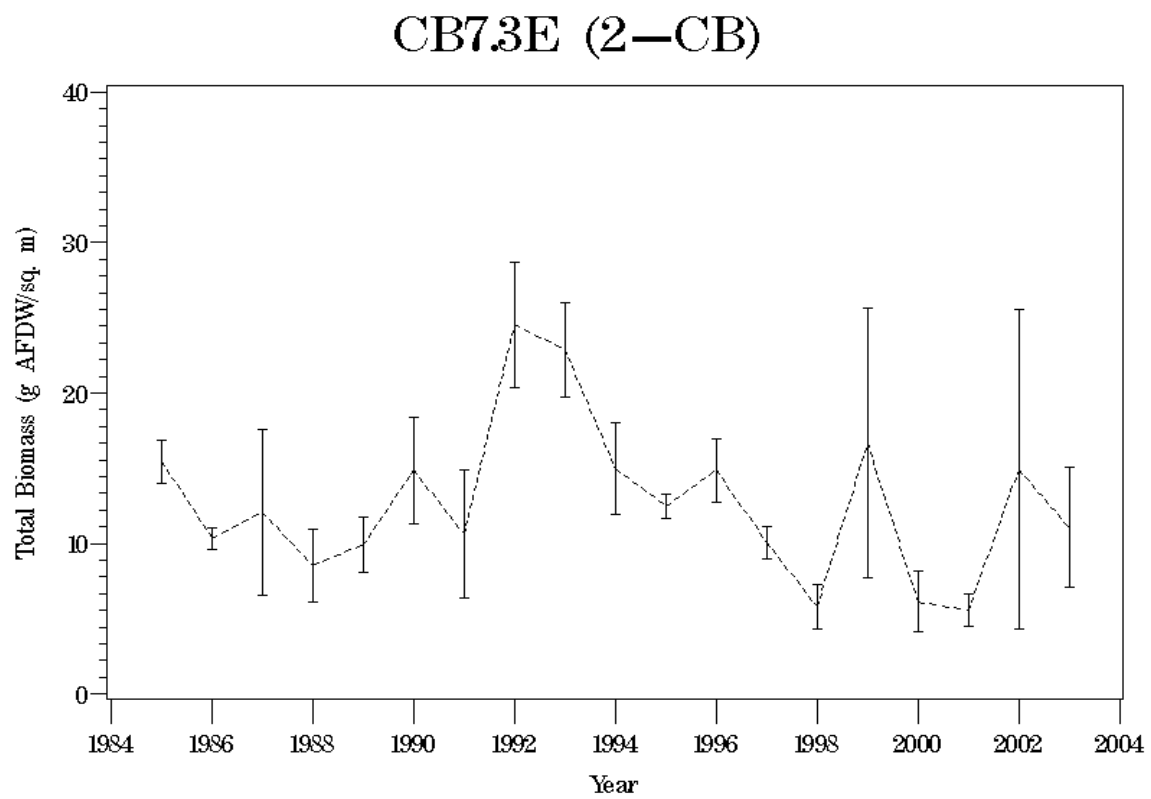


Figure M23. Plot of total benthic community biomass at station CB7.3E for 1985 through 2004.

### CB6.4 (3—CB)

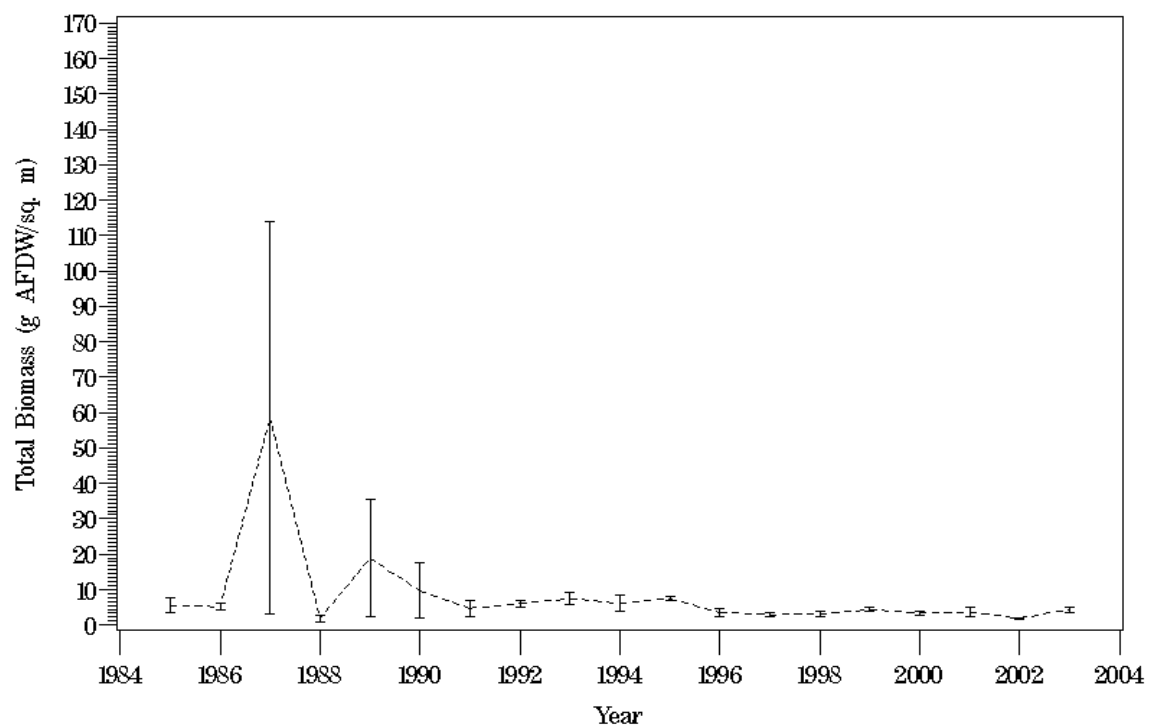


Figure M24. Plot of total benthic community biomass at station CB6.4 for 1985 through 2004.

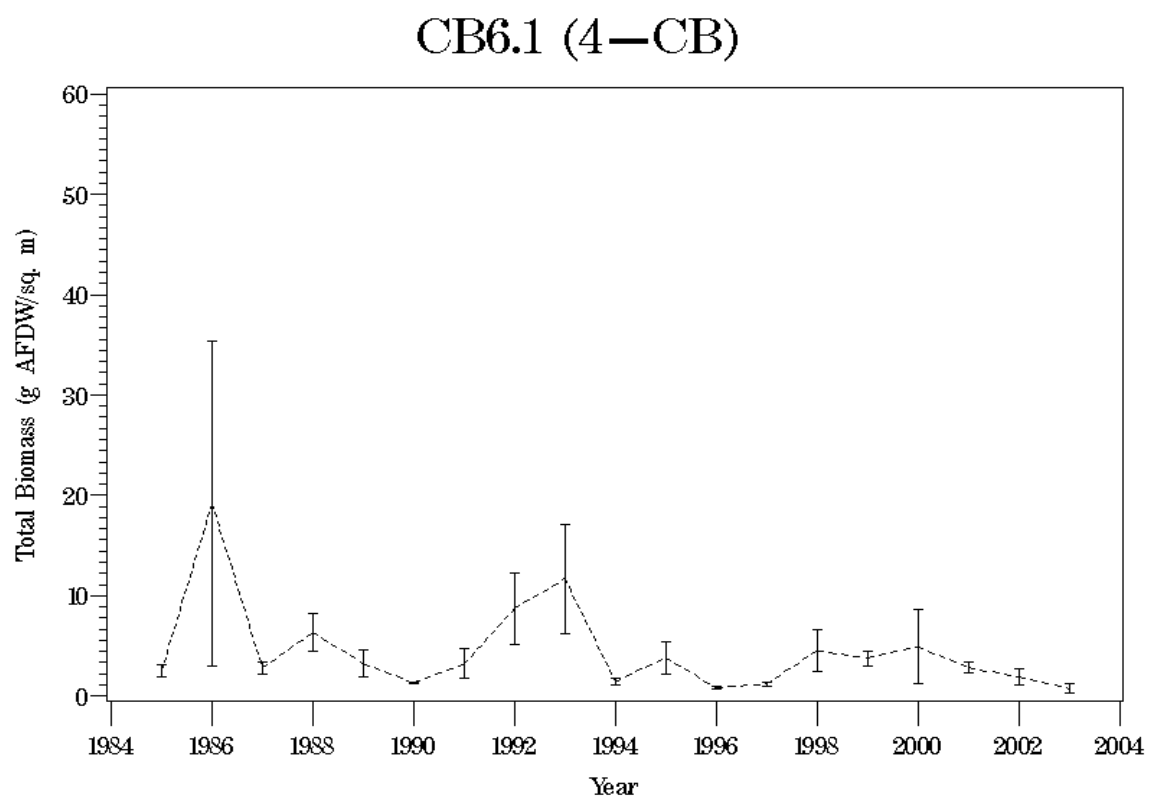


Figure M25. Plot of total benthic community biomass at station CB6.1 for 1985 through 2004.

## CB5.4 (5—CB)

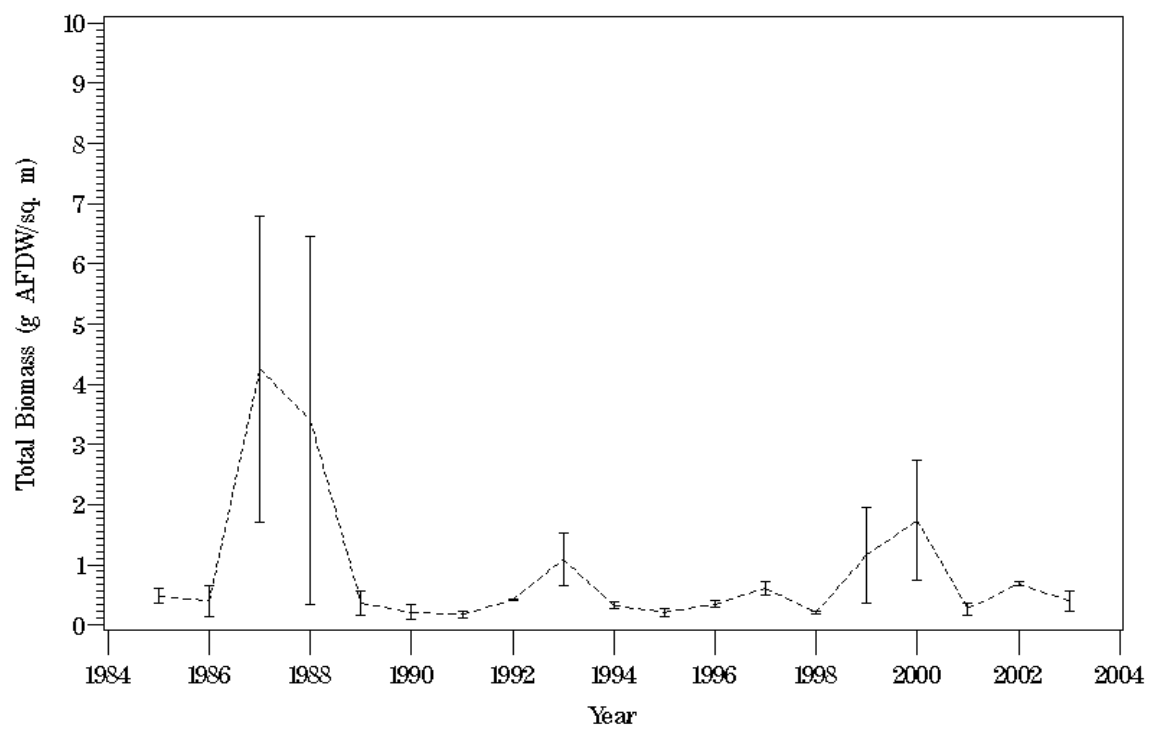


Figure M26. Plot of total benthic community biomass at station CB5.4 for 1985 through 2004.

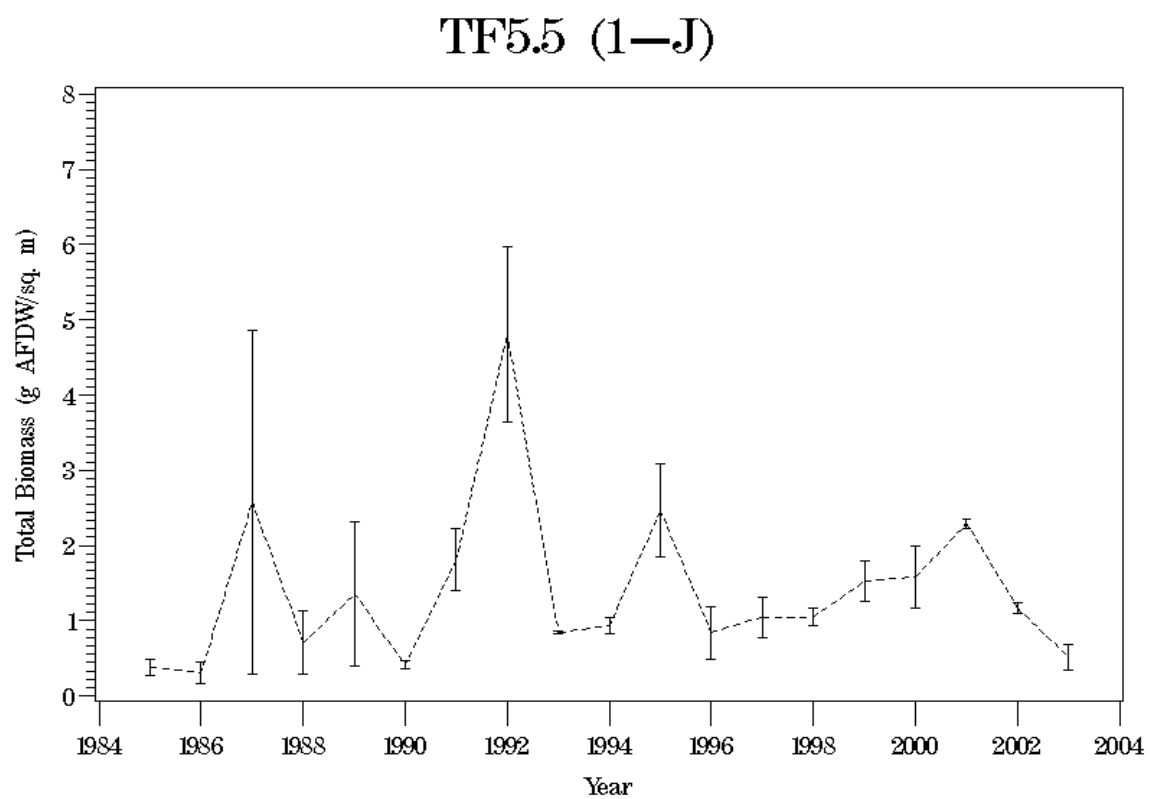


Figure M27. Plot of total benthic community biomass at station TF5.5 for 1985 through 2004.



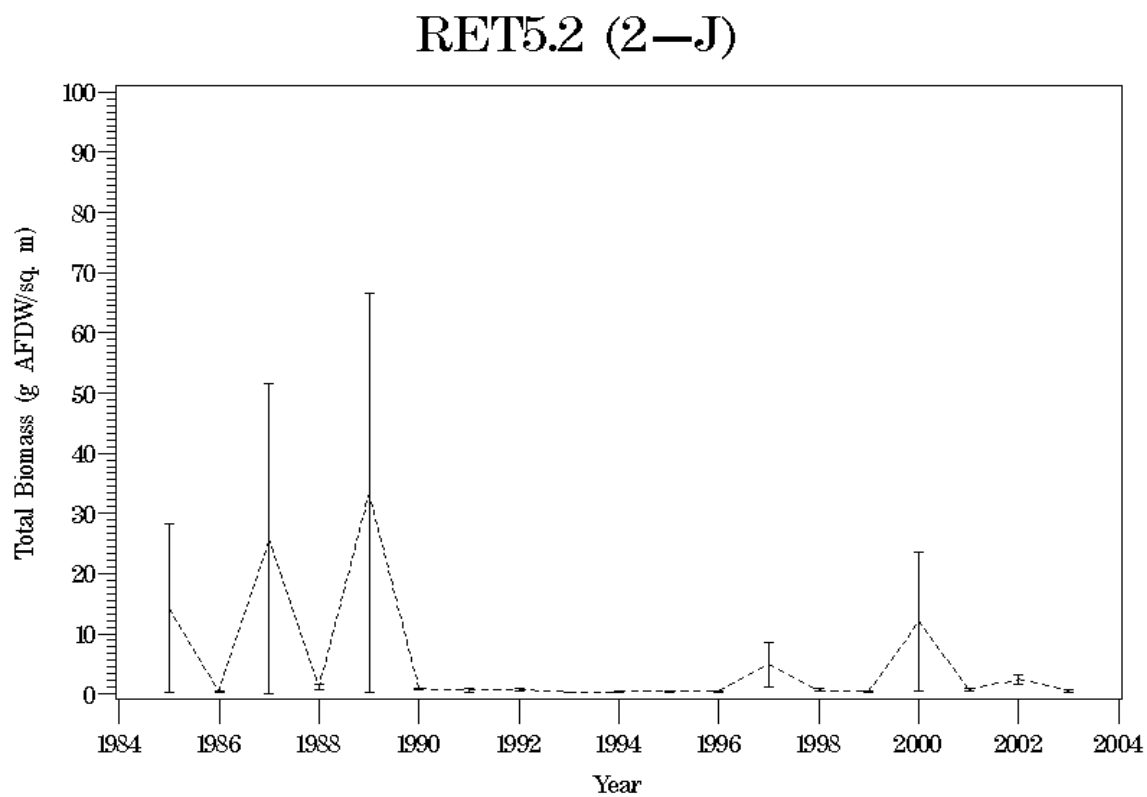


Figure M28. Plot of total benthic community biomass at station RET5.2 for 1985 through 2004.

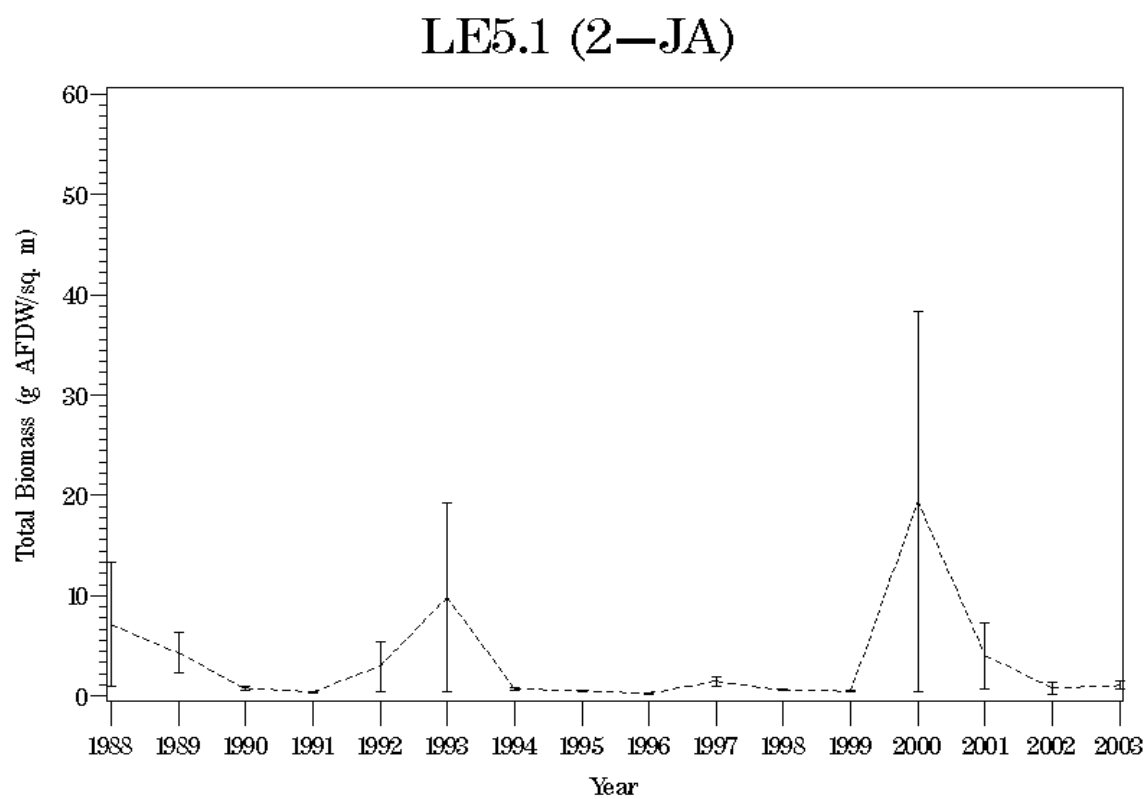


Figure M29. Plot of total benthic community biomass at station LE5.1 for 1985 through 2004.

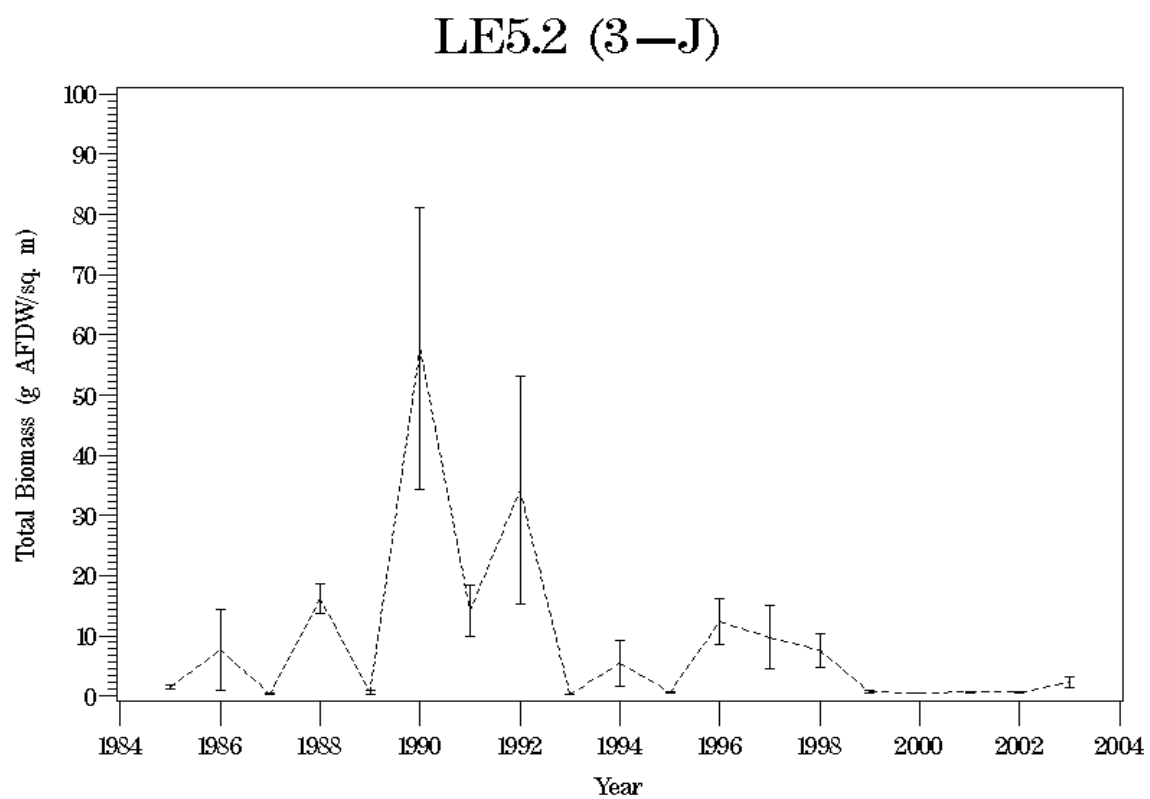


Figure M30. Plot of total benthic community biomass at station LE5.2 for 1985 through 2004.

## LE5.4 (4-J)

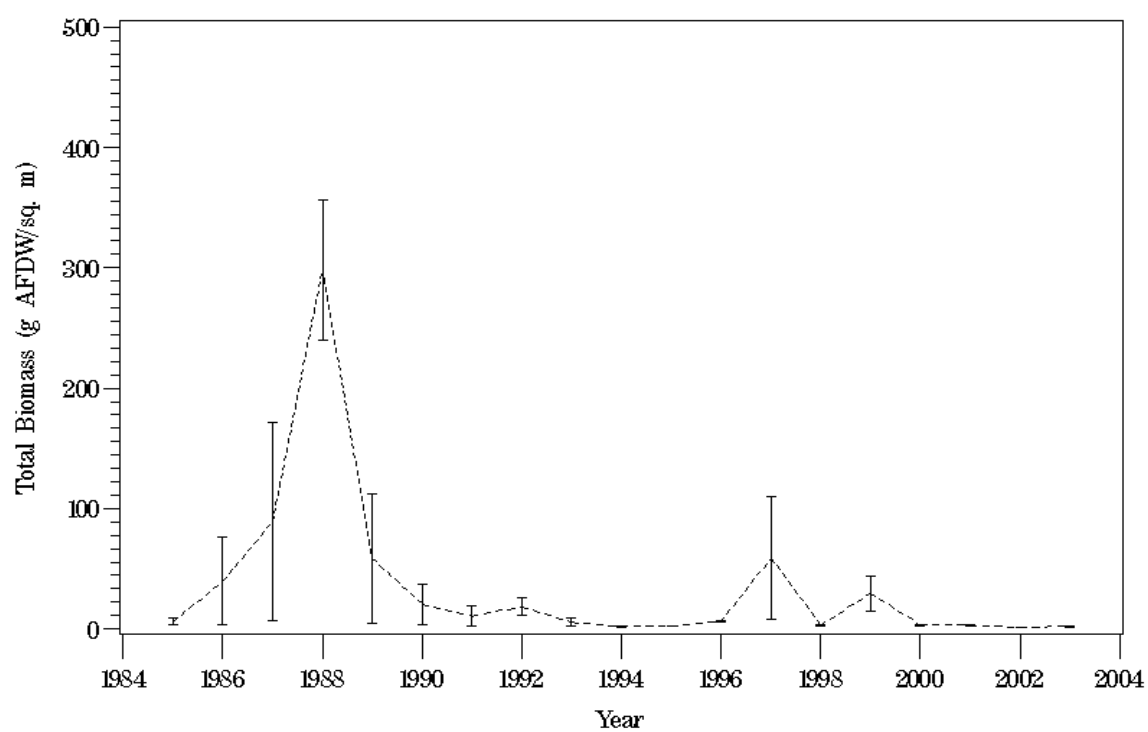


Figure M31. Plot of total benthic community biomass at station LE5.4 for 1985 through 2004.

## SBE2 (2—SB)

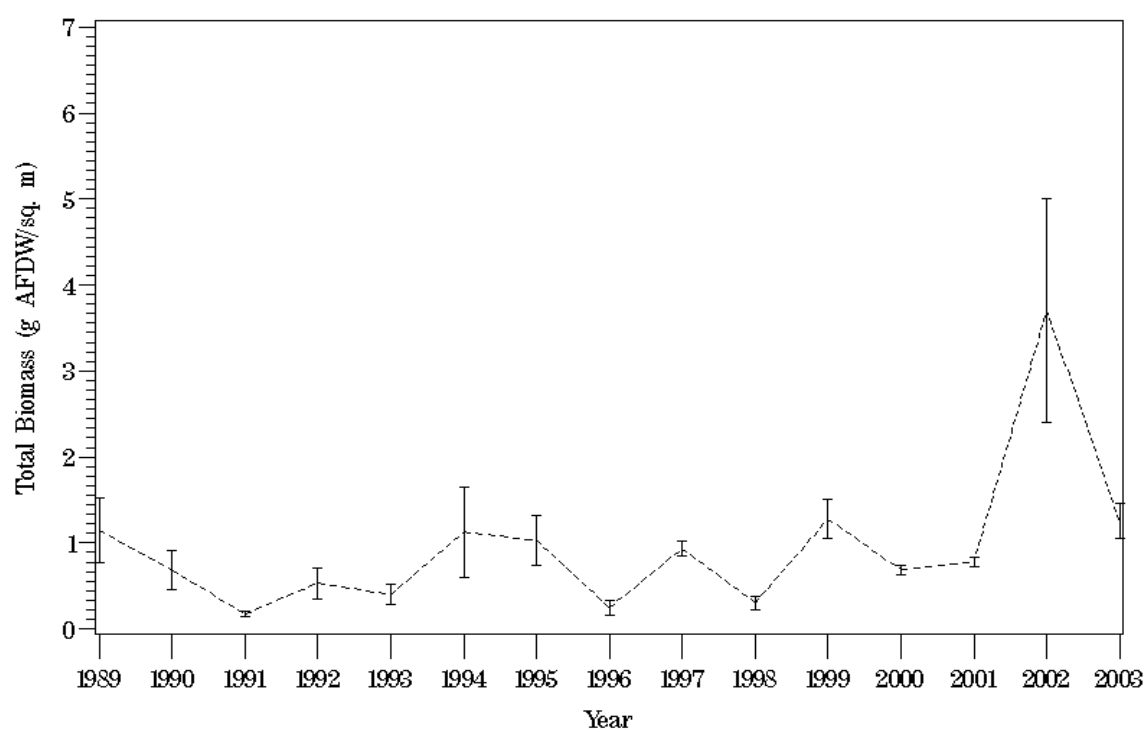


Figure M32. Plot of total benthic community biomass at station SBE2 for 1985 through 2004.

## SBE5 (5—SB)

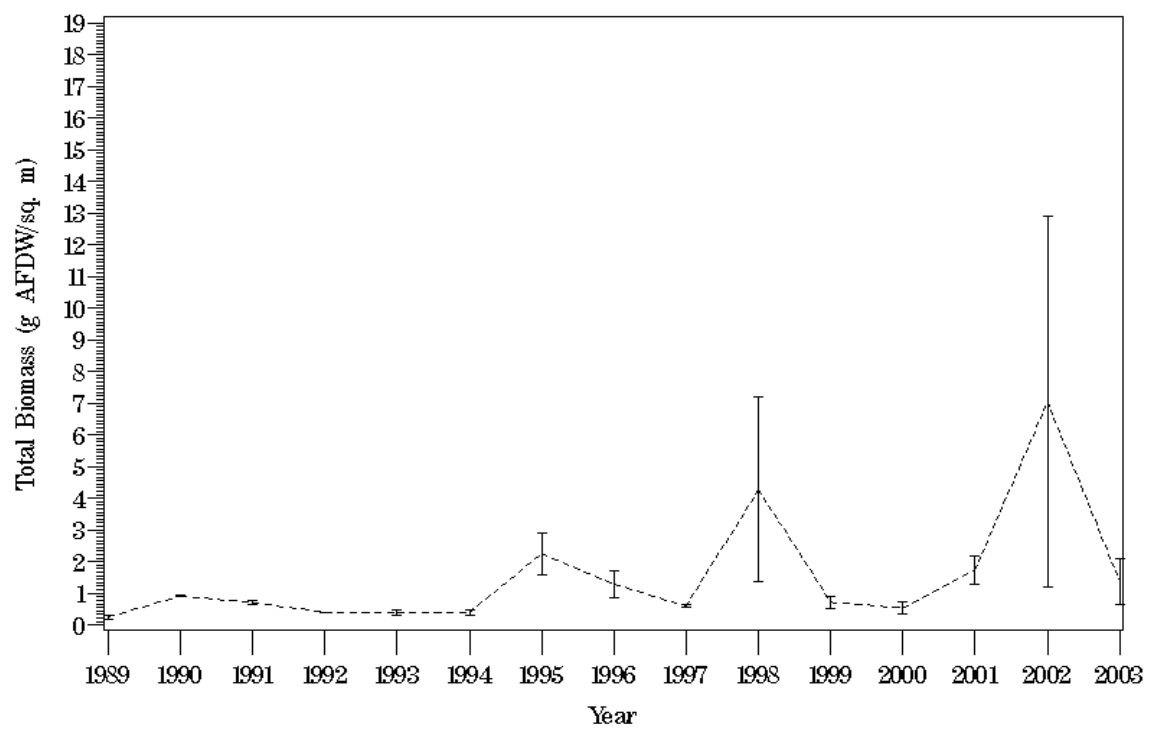


Figure M33. Plot of total benthic community biomass at station SBE5 for 1985 through 2004.

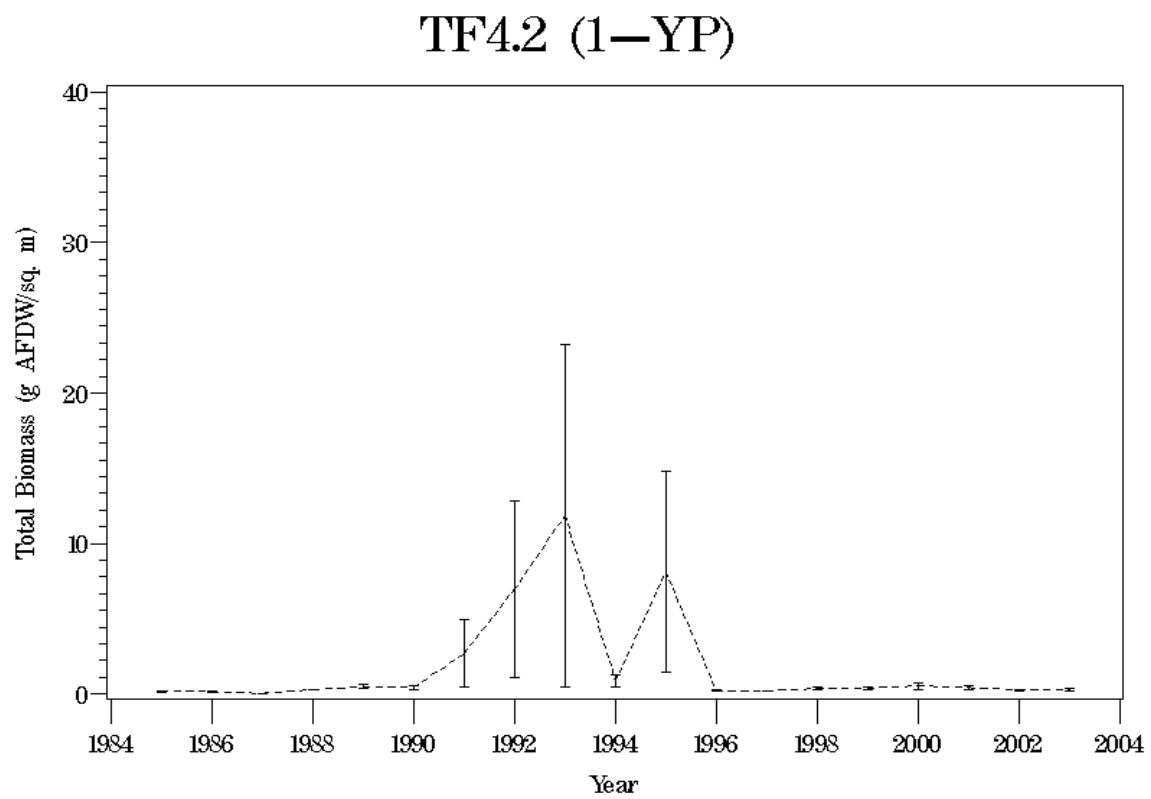


Figure M34. Plot of total benthic community biomass at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

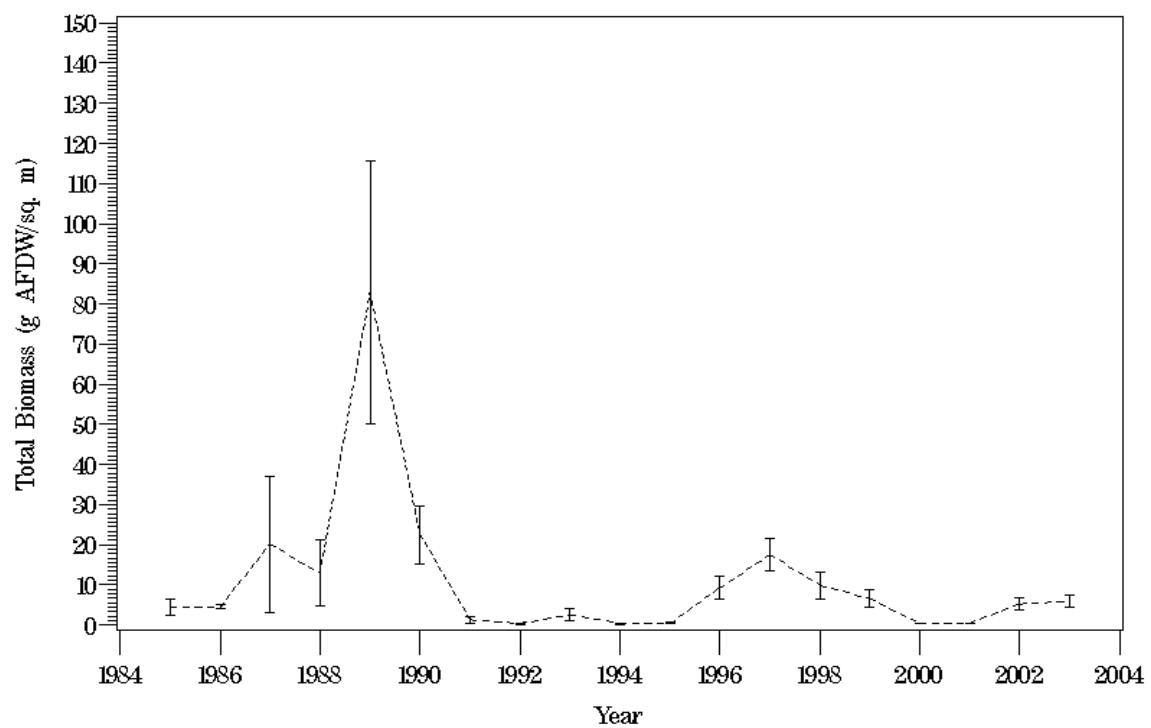


Figure M35. Plot of total benthic community biomass at station TF3.3 for 1985 through 2004.



## LE4.1 (3-YP)

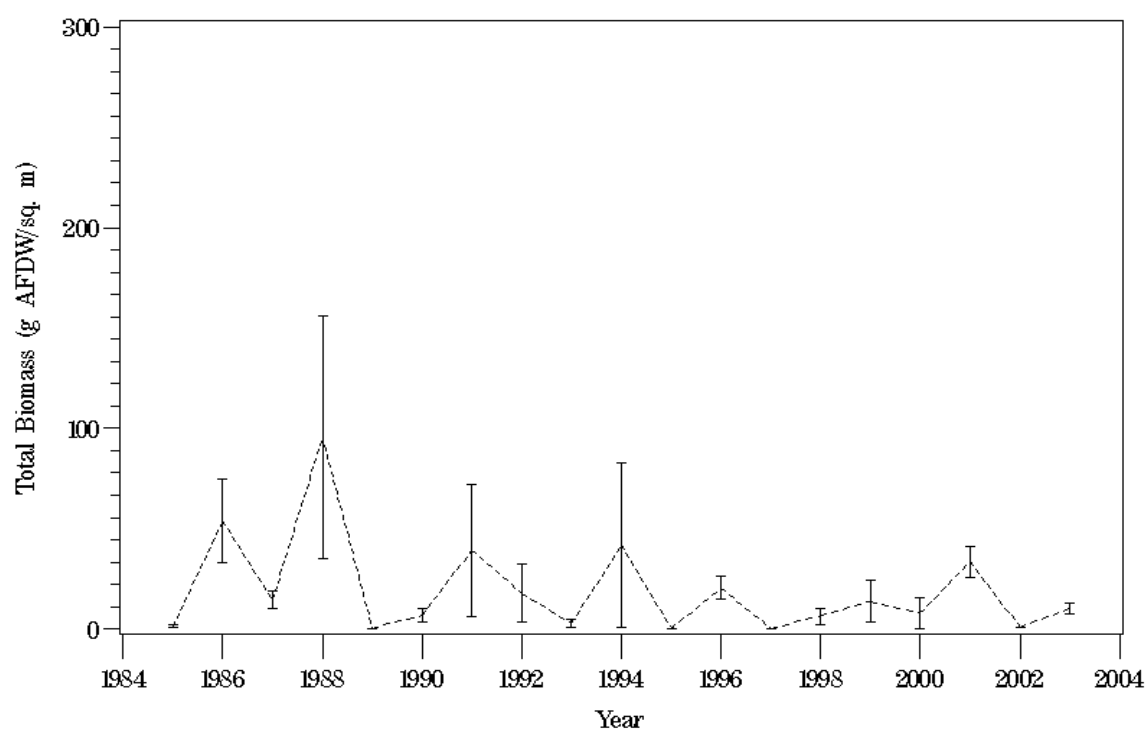


Figure M36. Plot of total benthic community biomass at station LE4.1 for 1985 through 2004.

## LE4.3 (4-YP)

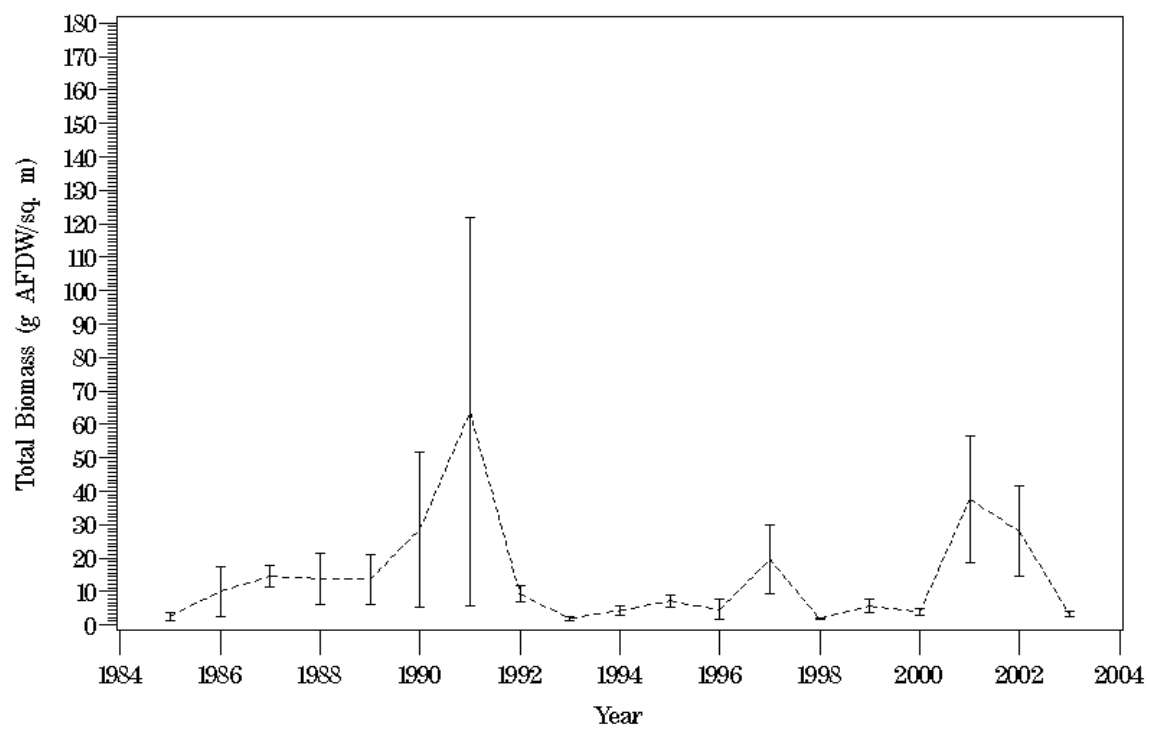


Figure M37. Plot of total benthic community biomass at station LE4.3 for 1985 through 2004.

## LE4.3B (5-YP)

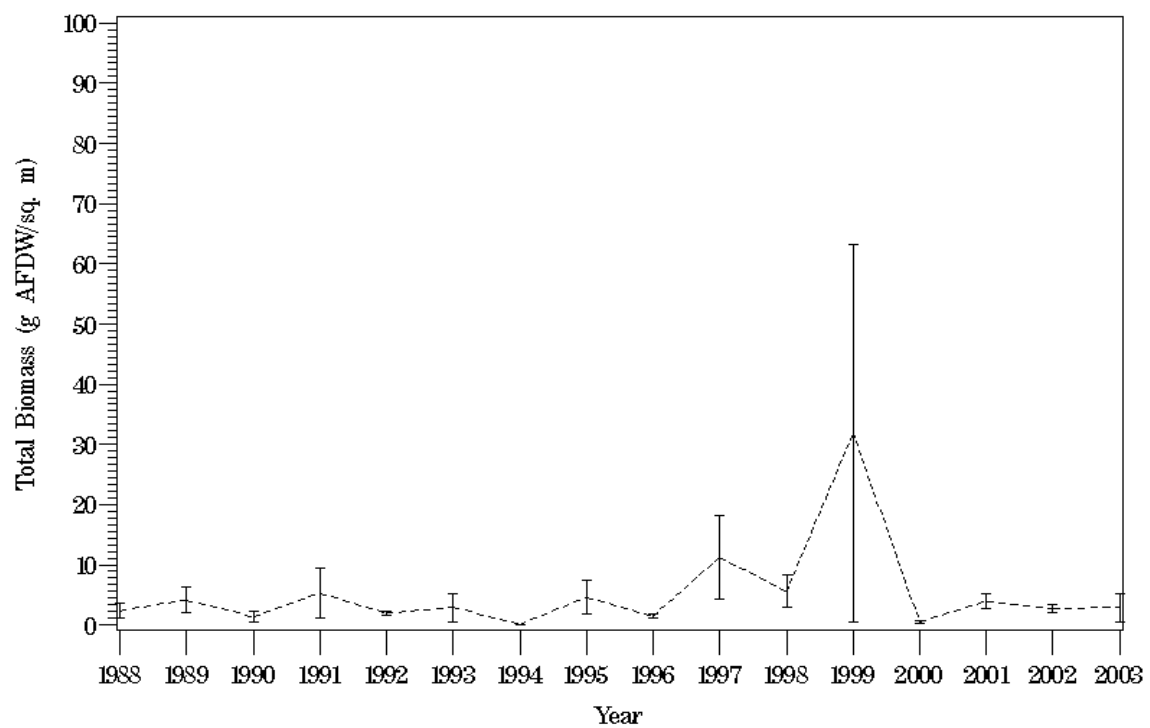


Figure M38. Plot of total benthic community biomass at station LE4.3B for 1985 through 2004.

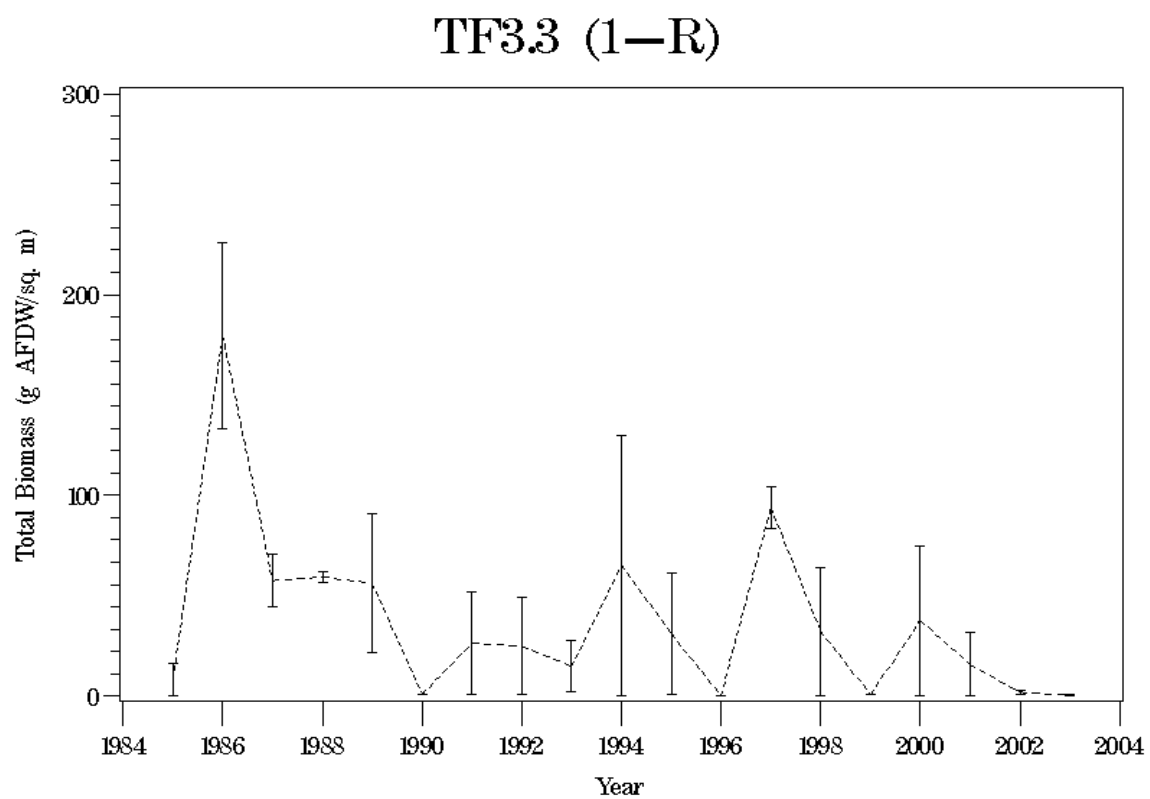


Figure M39. Plot of total benthic community biomass at station TF3.3 for 1985 through 2004.

## RET3.1 (2-R)

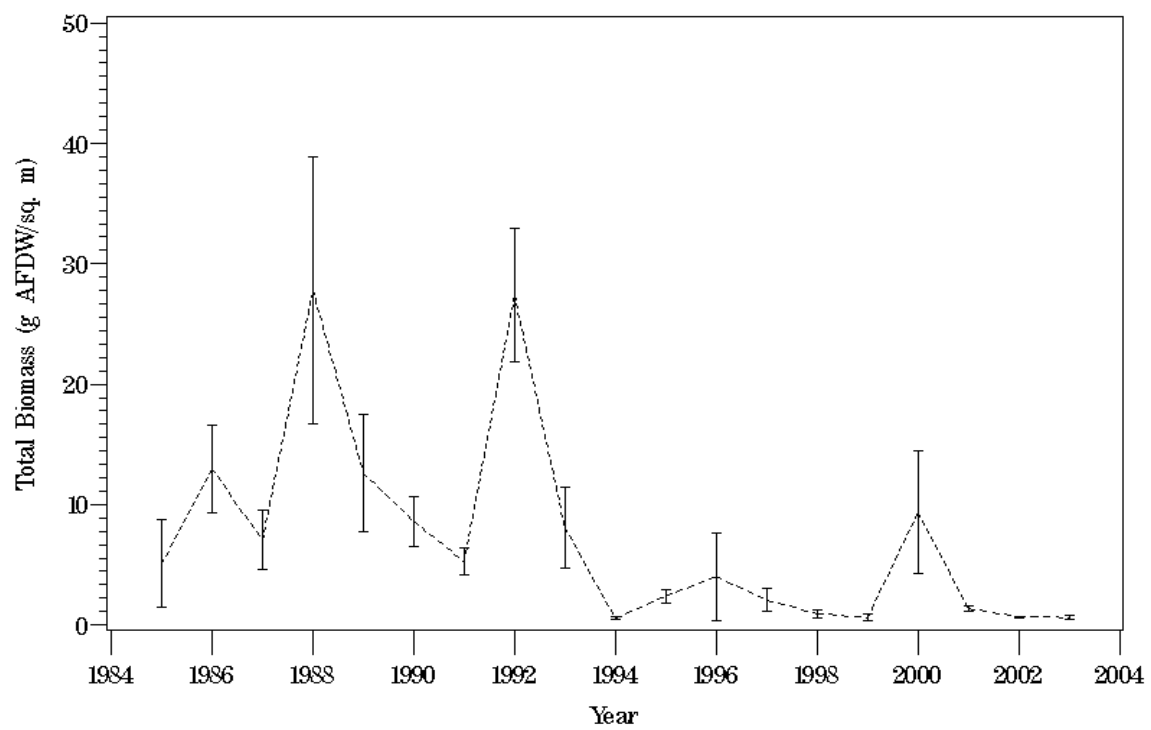


Figure M40. Plot of total benthic community biomass at station RET3.1 for 1985 through 2004.

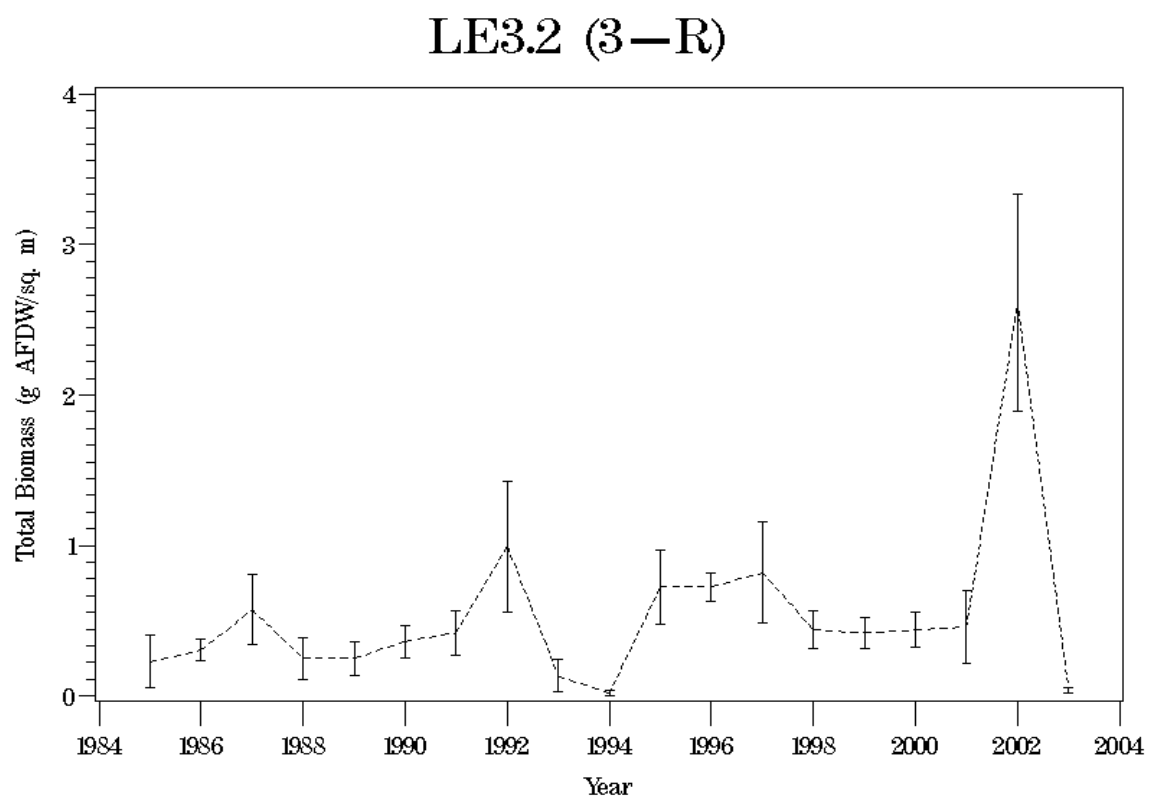


Figure M41. Plot of total benthic community biomass at station LE3.2 for 1985 through 2004.

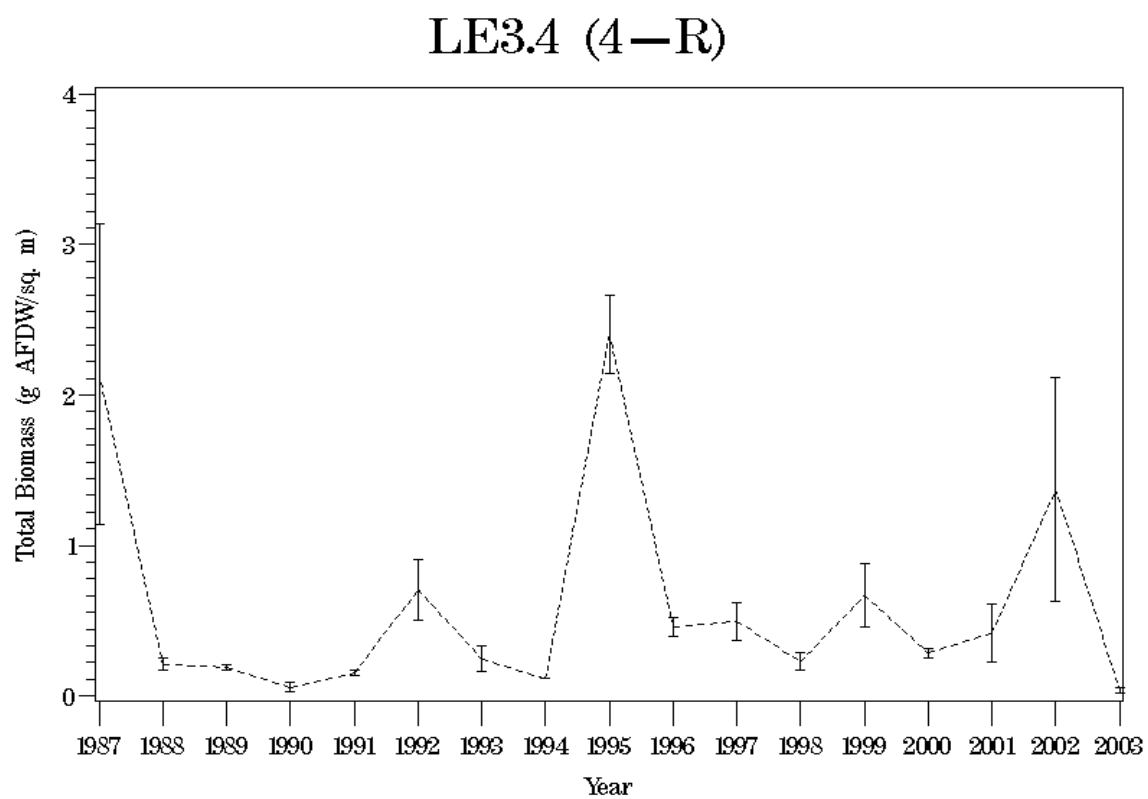


Figure M42. Plot of total benthic community biomass at station LE3.4 for 1985 through 2004.

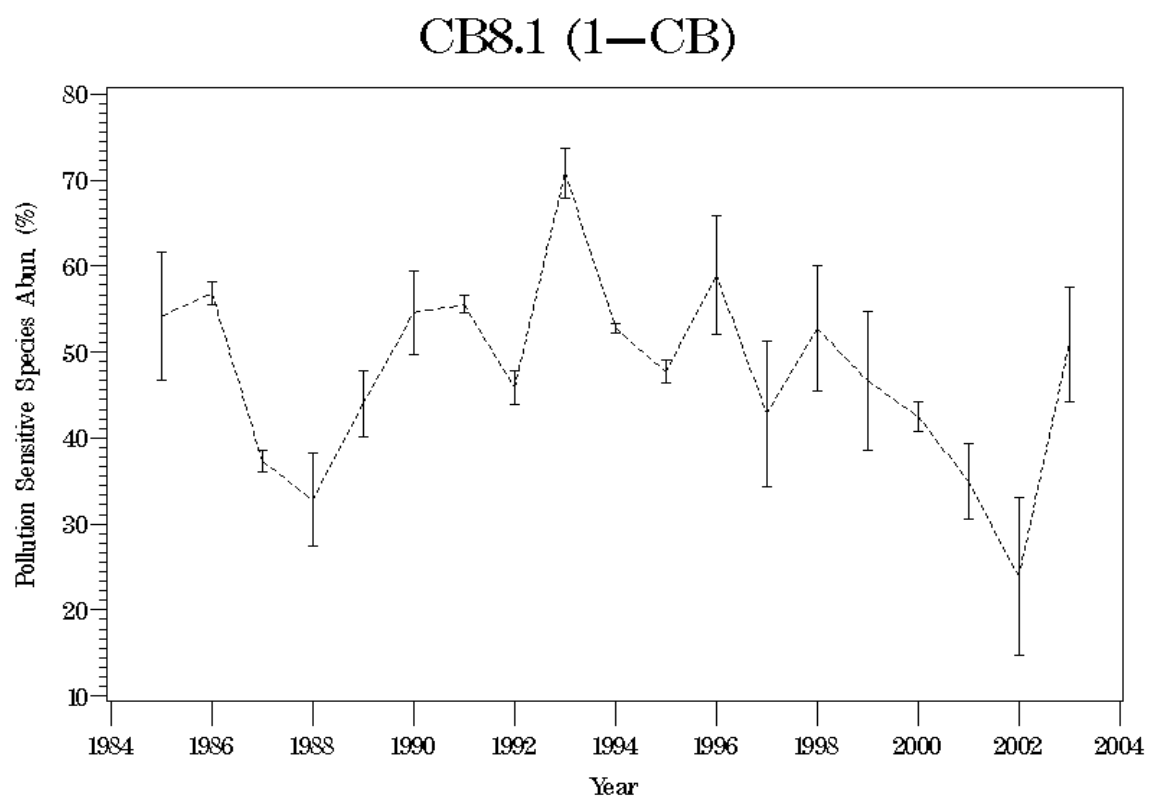


Figure M43. Plot of pollution sensitive species abundance at station CB8.1 for 1985 through 2004.



## CB7.3E (2-CB)

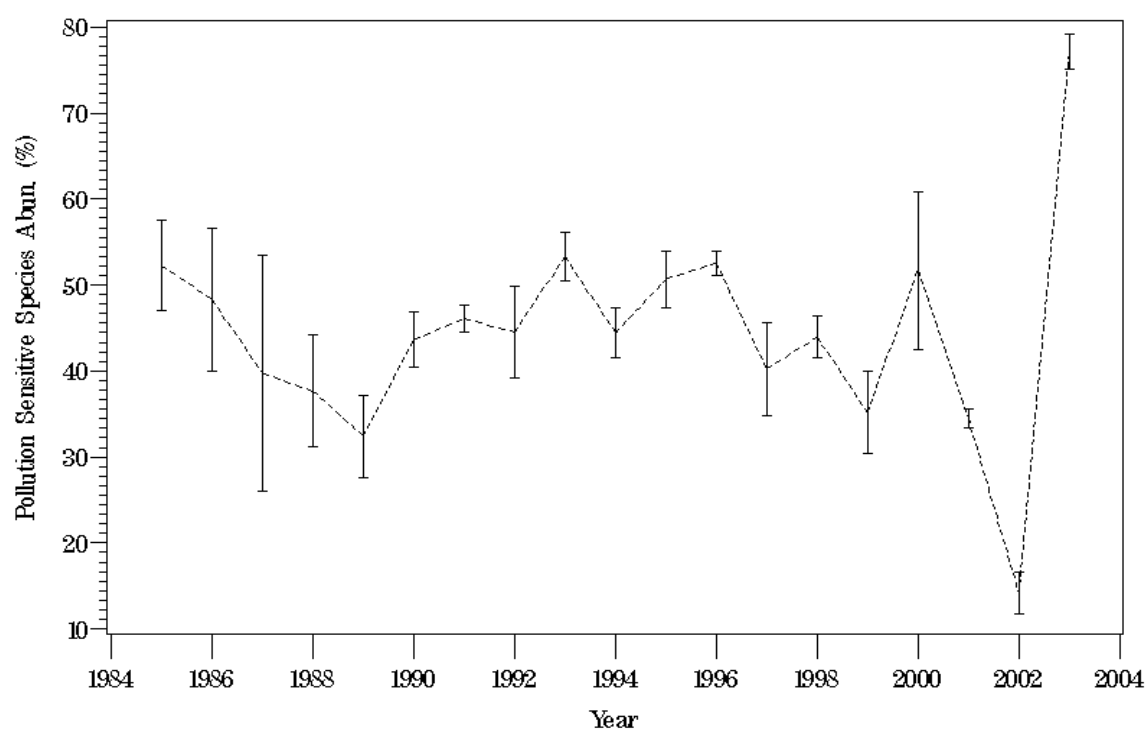


Figure M44. Plot of pollution sensitive species abundance at station CB7.3E for 1985 through 2004.

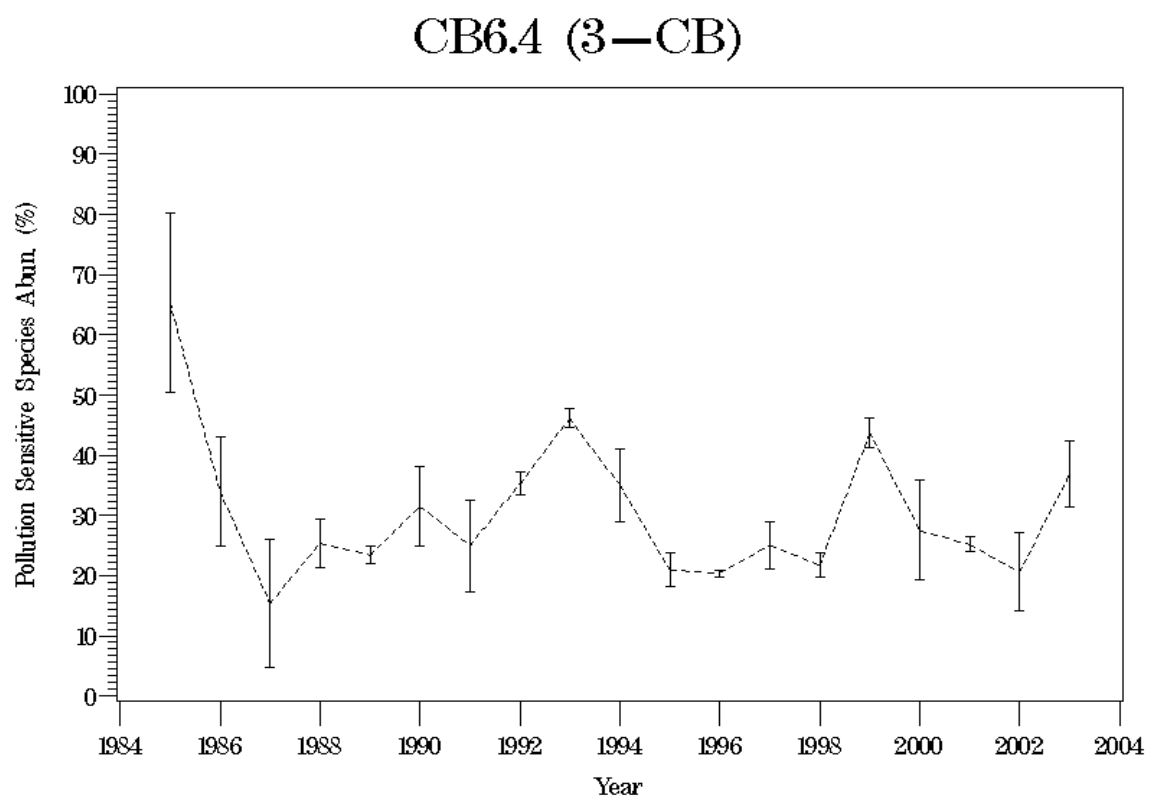


Figure M45. Plot of pollution sensitive species abundance at station CB6.4 for 1985 through 2004.

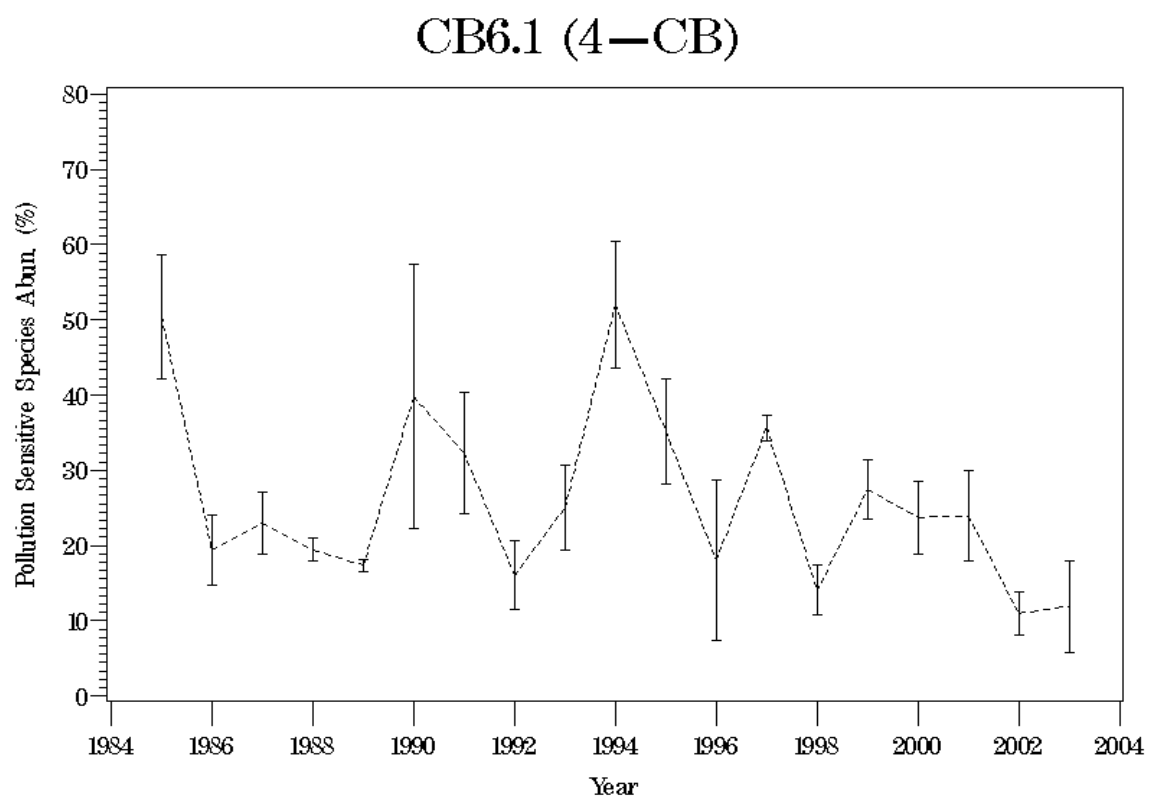


Figure M46. Plot of pollution sensitive species abundance at station CB6.1 for 1985 through 2004.

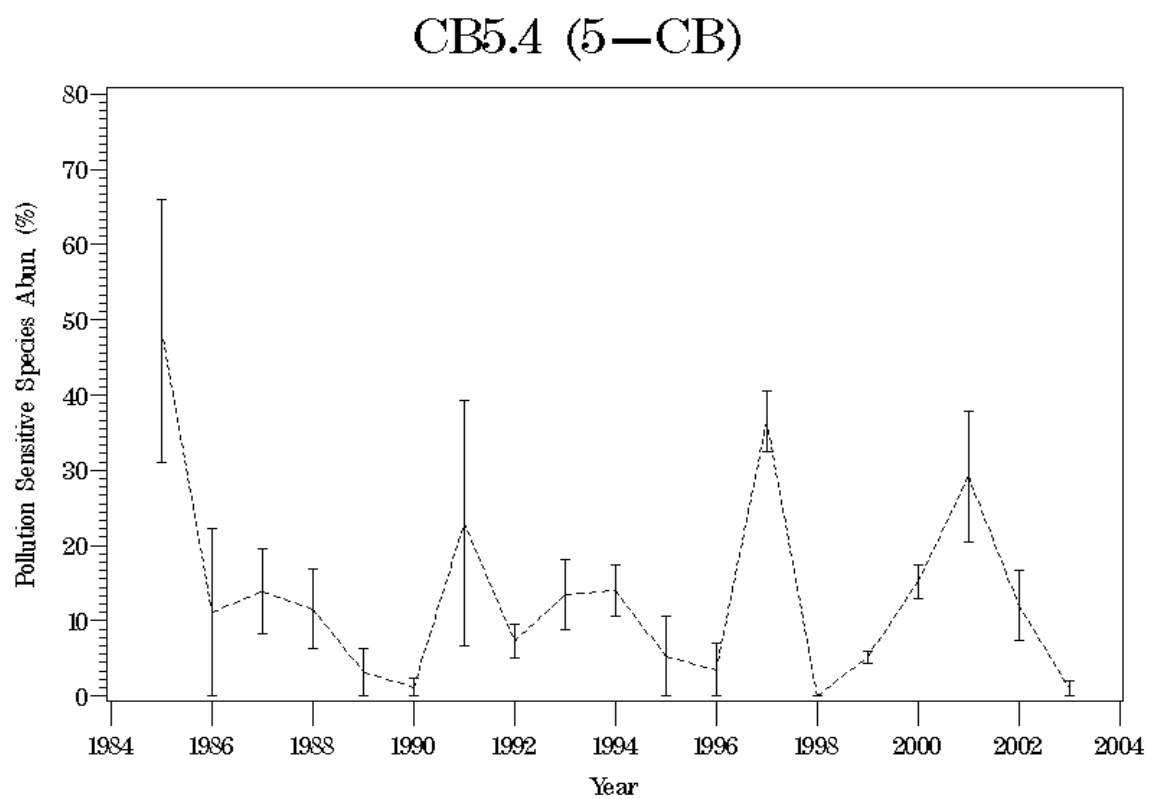


Figure M47. Plot of pollution sensitive species abundance at station CB5.4 for 1985 through 2004.

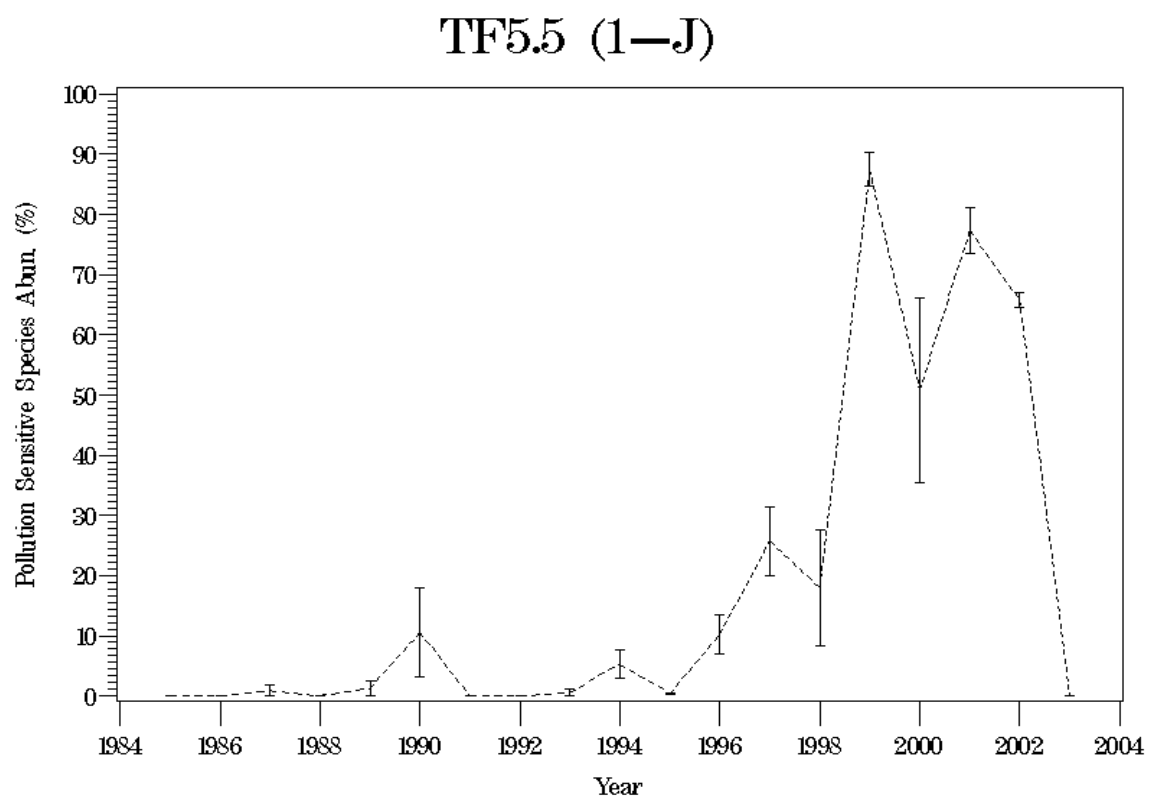


Figure M48. Plot of pollution sensitive species abundance at station TF5.5 for 1985 through 2004.

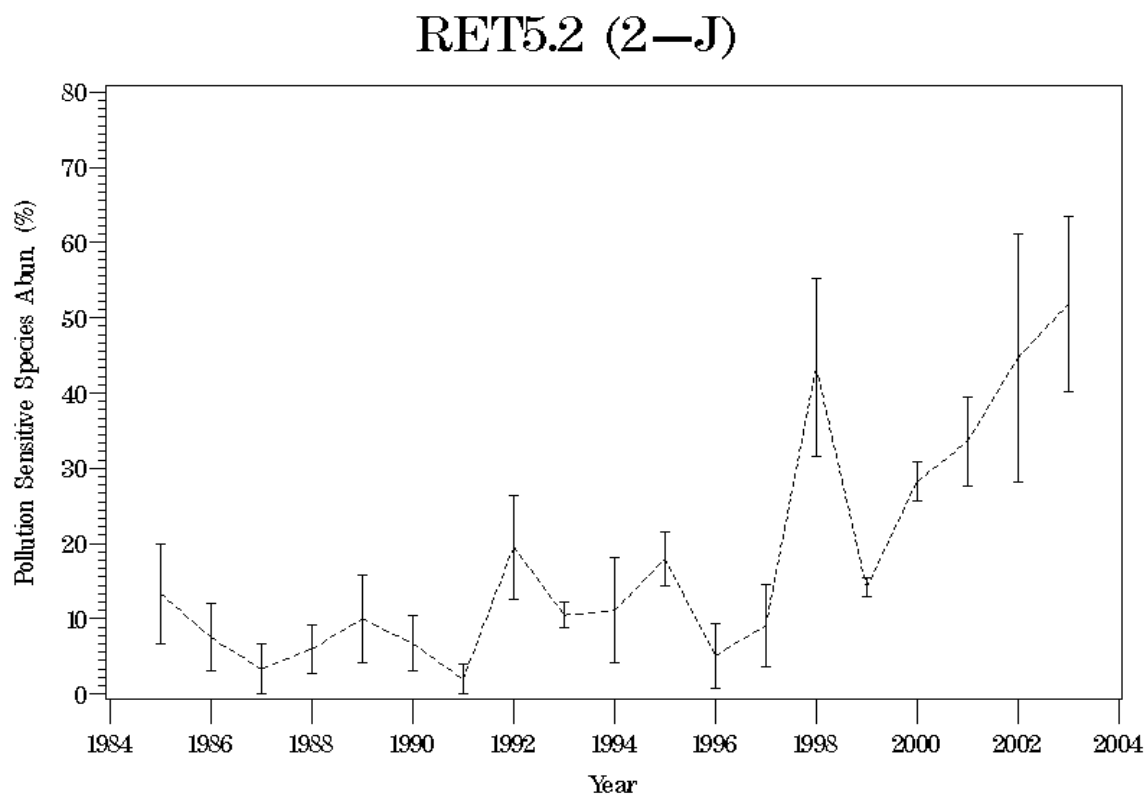


Figure M49. Plot of pollution sensitive species abundance at station RET5.2 for 1985 through 2004.

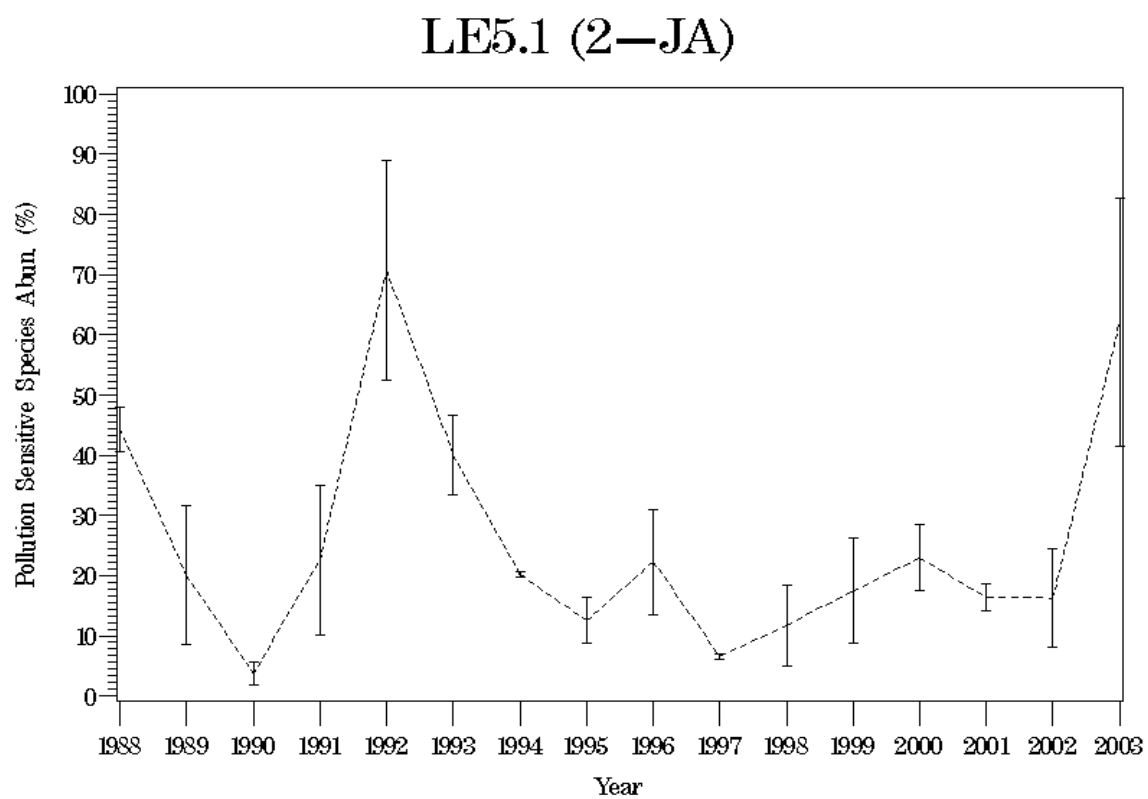


Figure M50. Plot of pollution sensitive species abundance at station LE5.1 for 1985 through 2004.

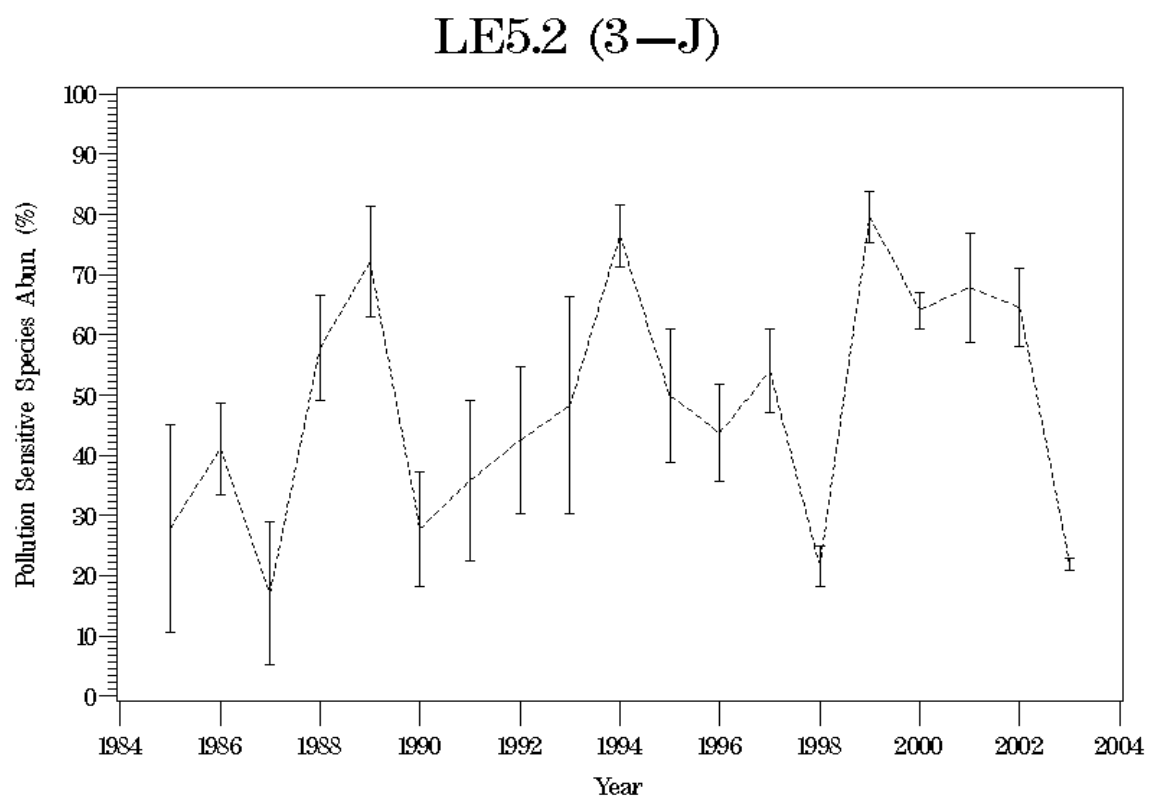


Figure M51. Plot of pollution sensitive species abundance at station LE5.2 for 1985 through 2004.



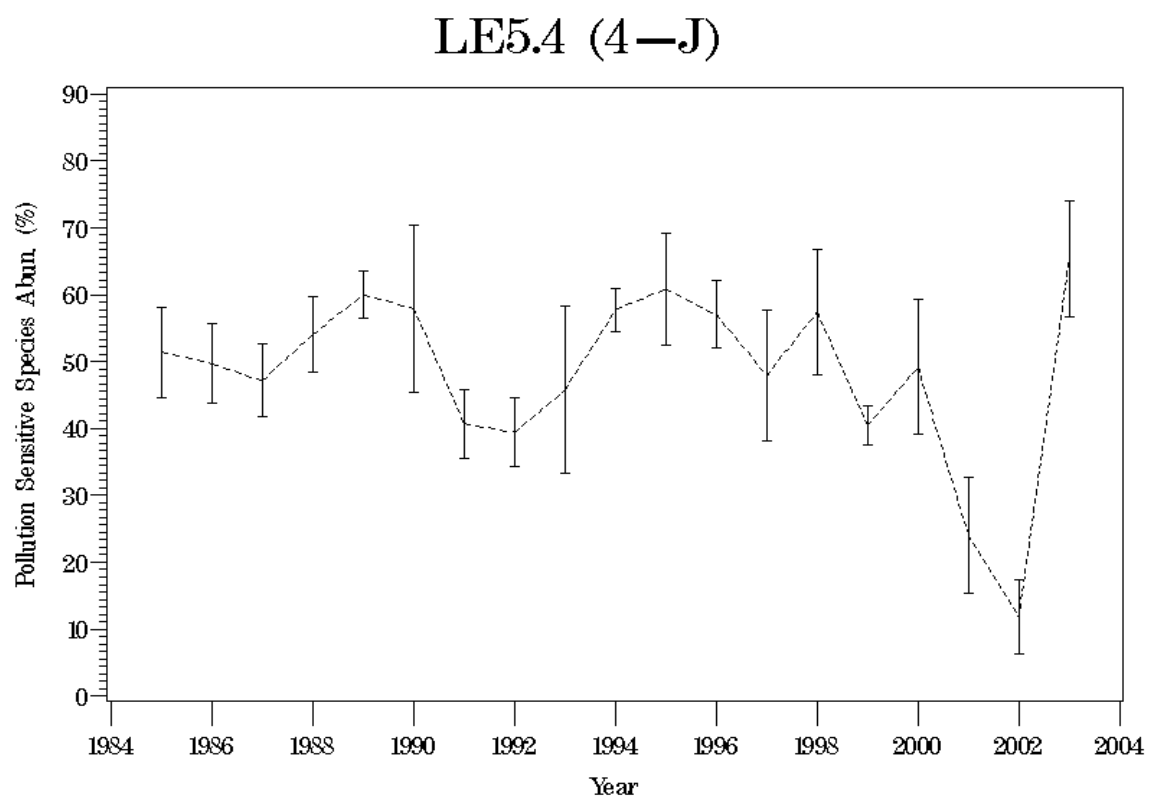


Figure M52. Plot of pollution sensitive species abundance at station LE5.4 for 1985 through 2004.

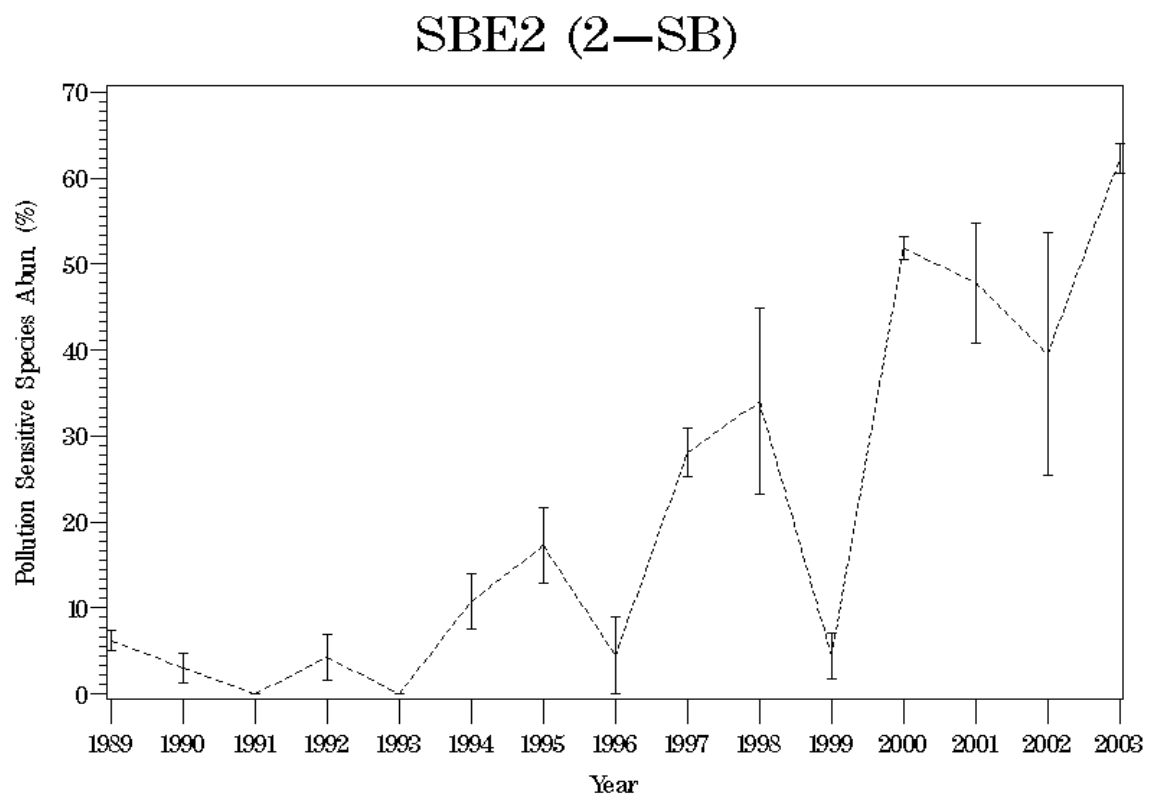


Figure M53. Plot of pollution sensitive species abundance at station SBE2 for 1985 through 2004.

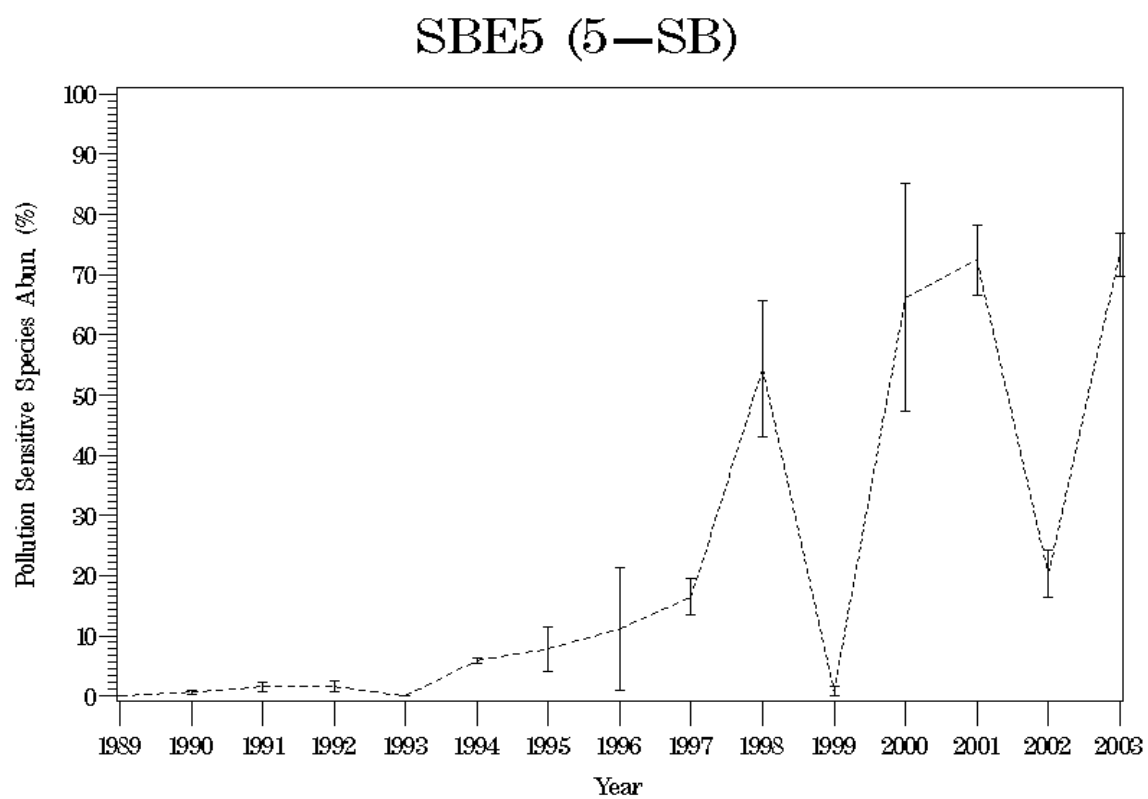


Figure M54. Plot of pollution sensitive species abundance at station SBE5 for 1985 through 2004.

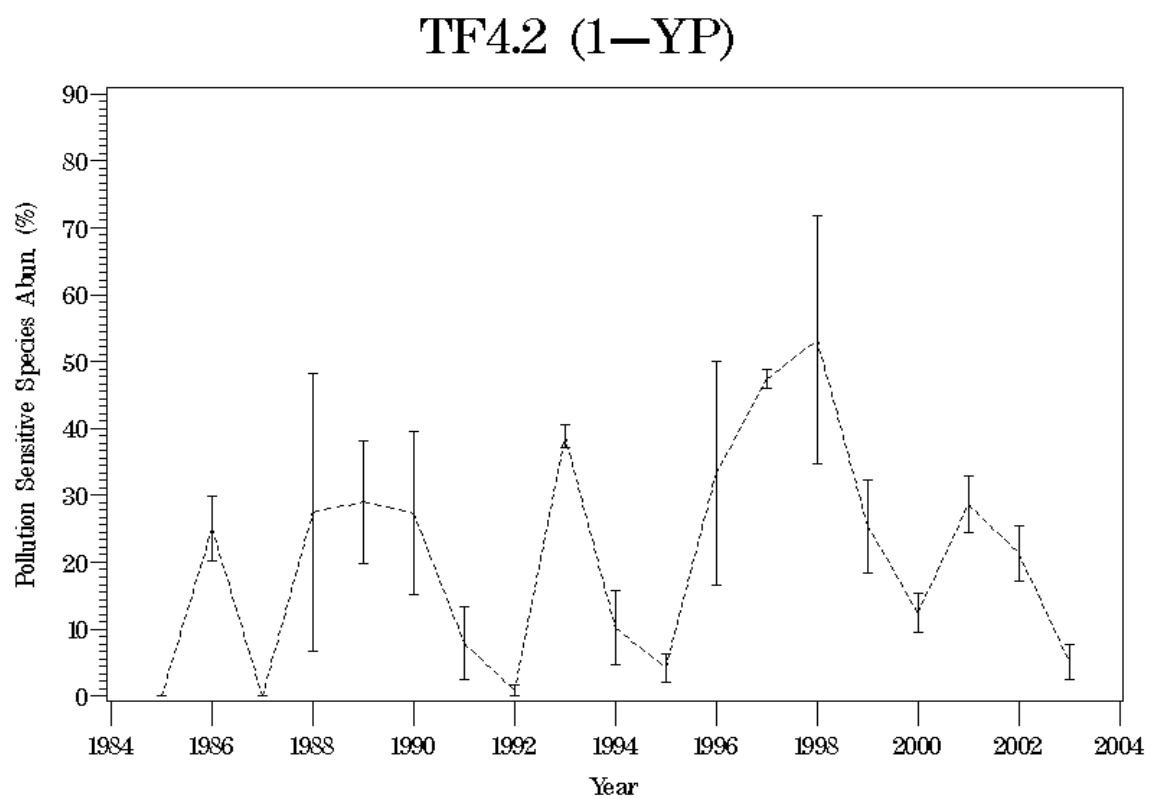


Figure M55. Plot of pollution sensitive species abundance at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

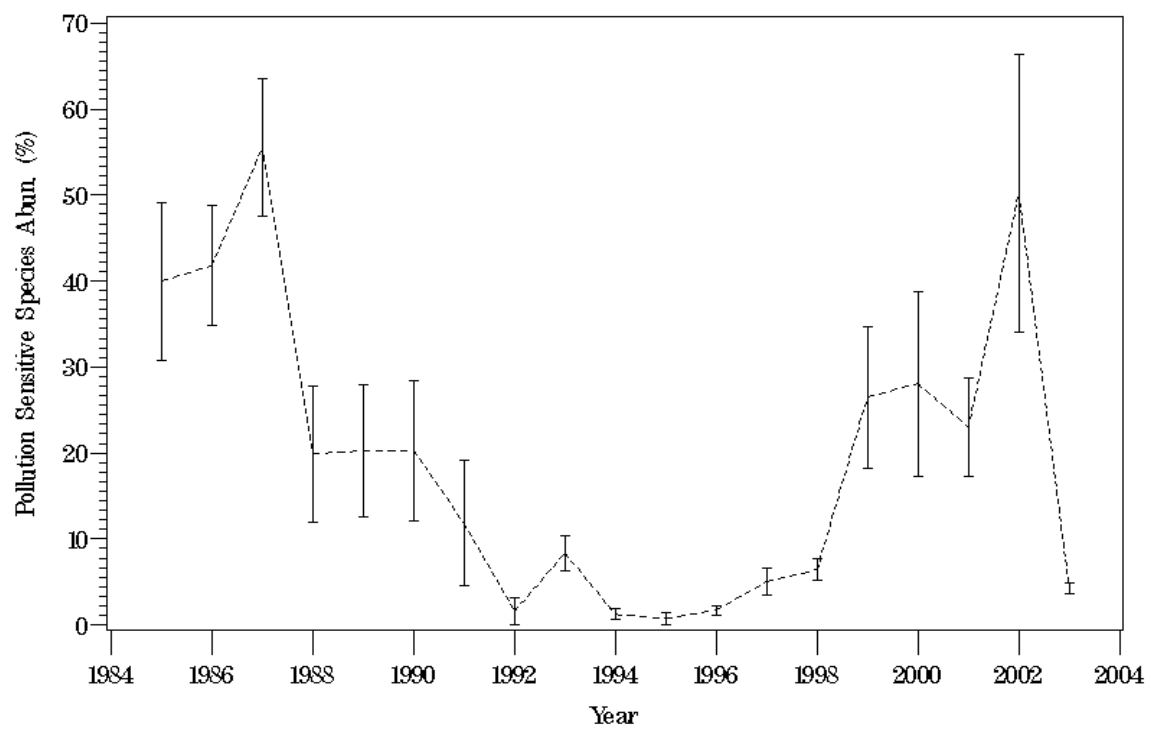


Figure M56. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2004.

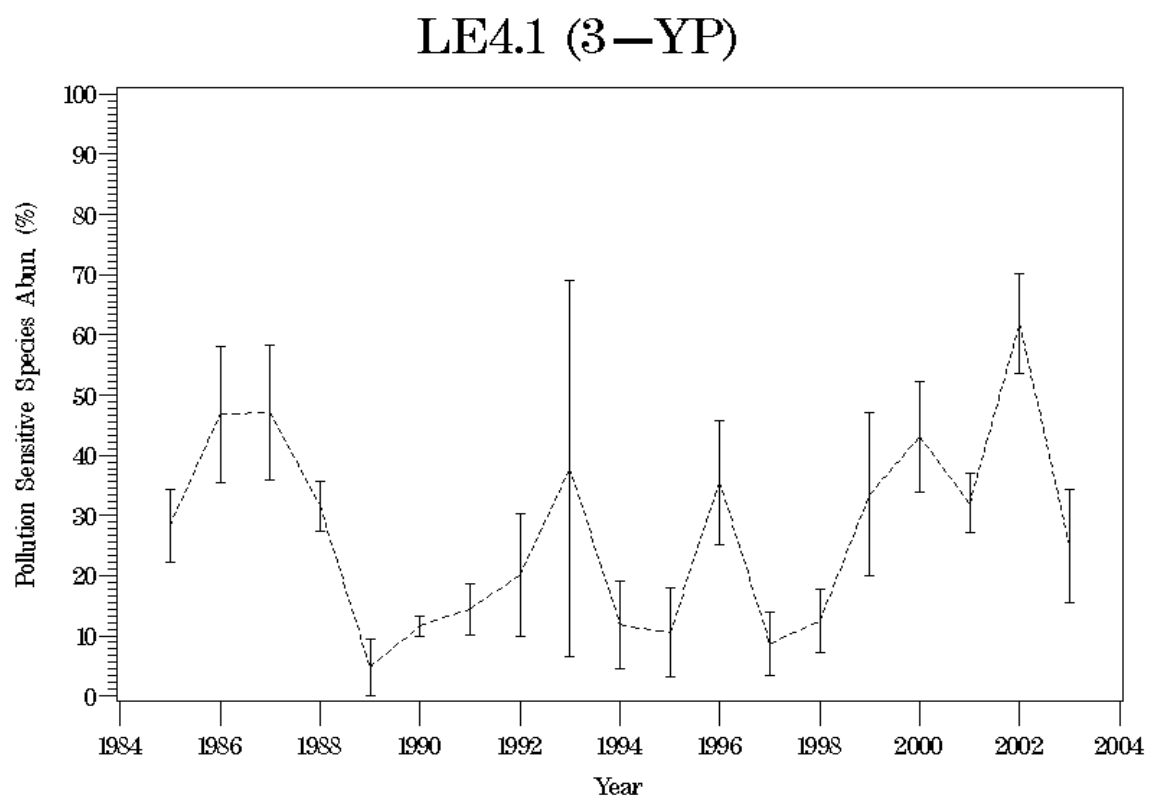


Figure M57. Plot of pollution sensitive species abundance at station LE4.1 for 1985 through 2004.

## LE4.3 (4-YP)

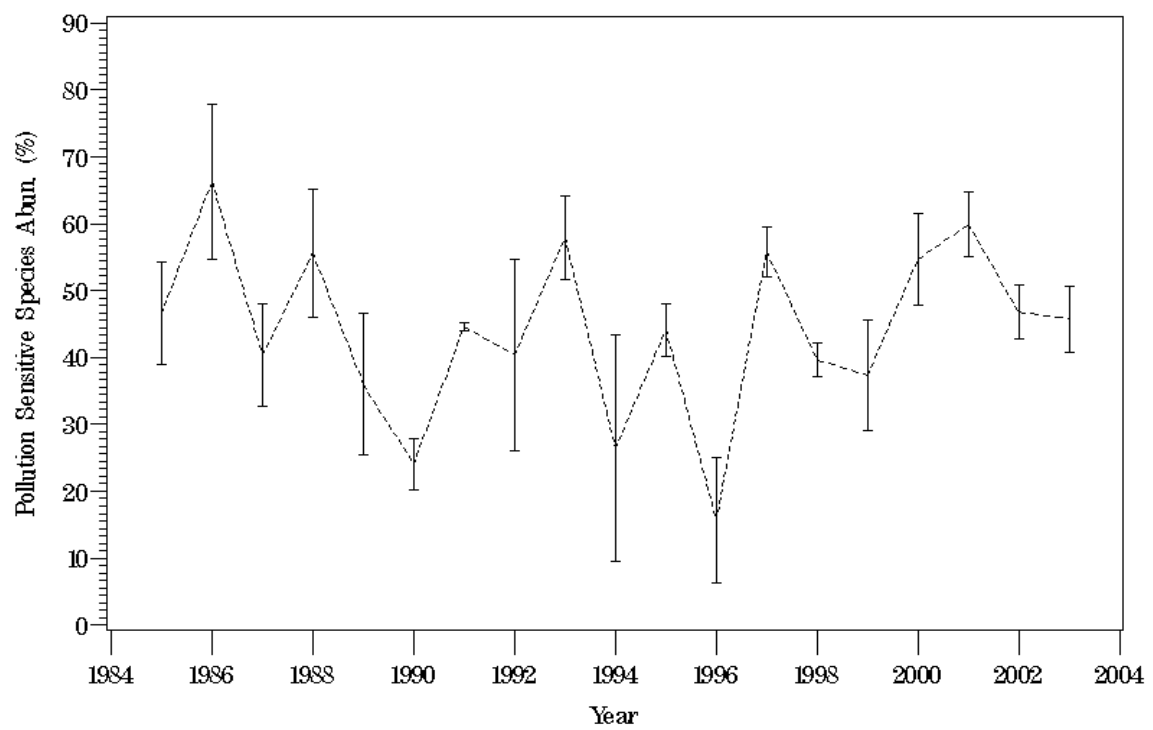


Figure M58. Plot of pollution sensitive species abundance at station LE4.3 for 1985 through 2004.

## LE4.3B (5-YP)

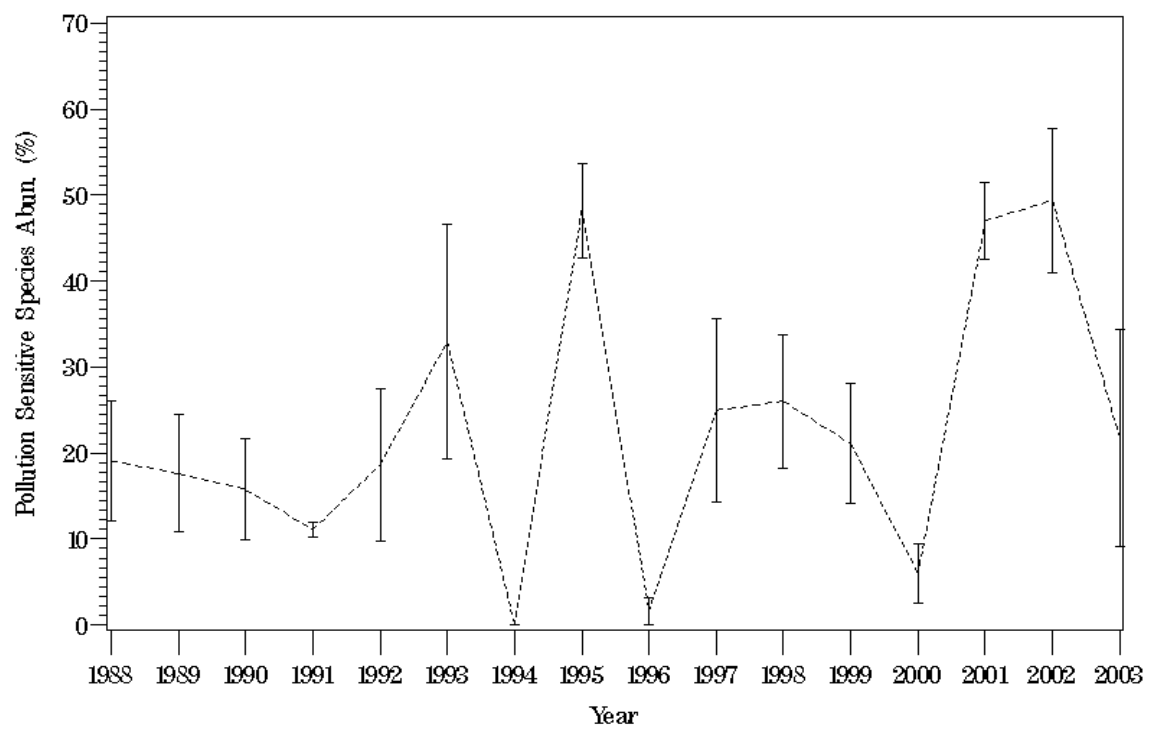


Figure M59. Plot of pollution sensitive species abundance at station LE4.3B for 1985 through 2004.



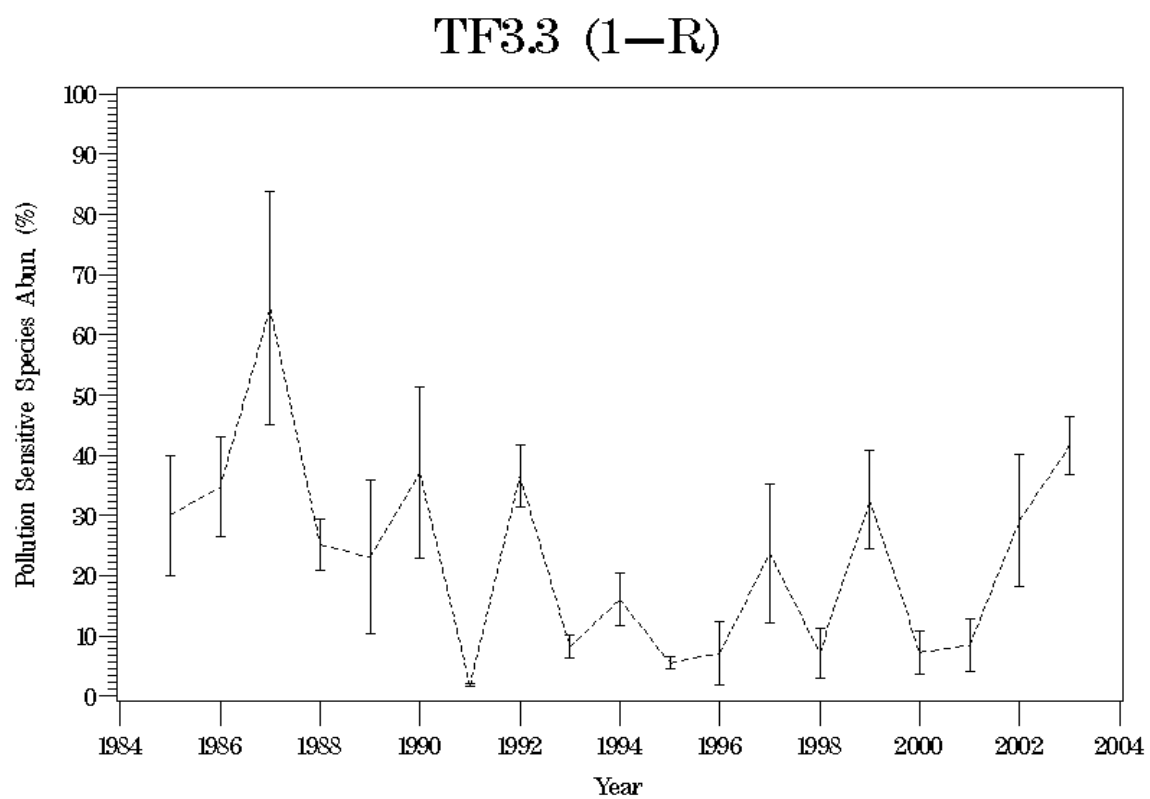


Figure M60. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2004.

## RET3.1 (2-R)

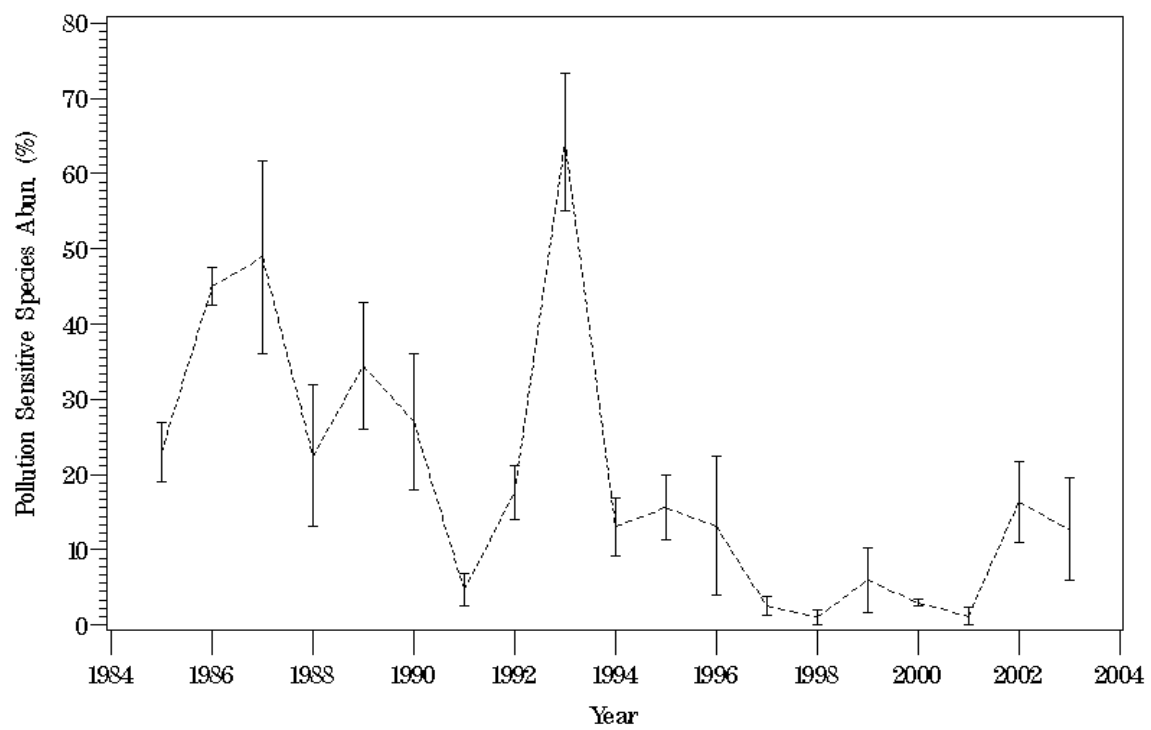


Figure M61. Plot of pollution sensitive species abundance at station RET3.1 for 1985 through 2004.

## LE3.2 (3-R)

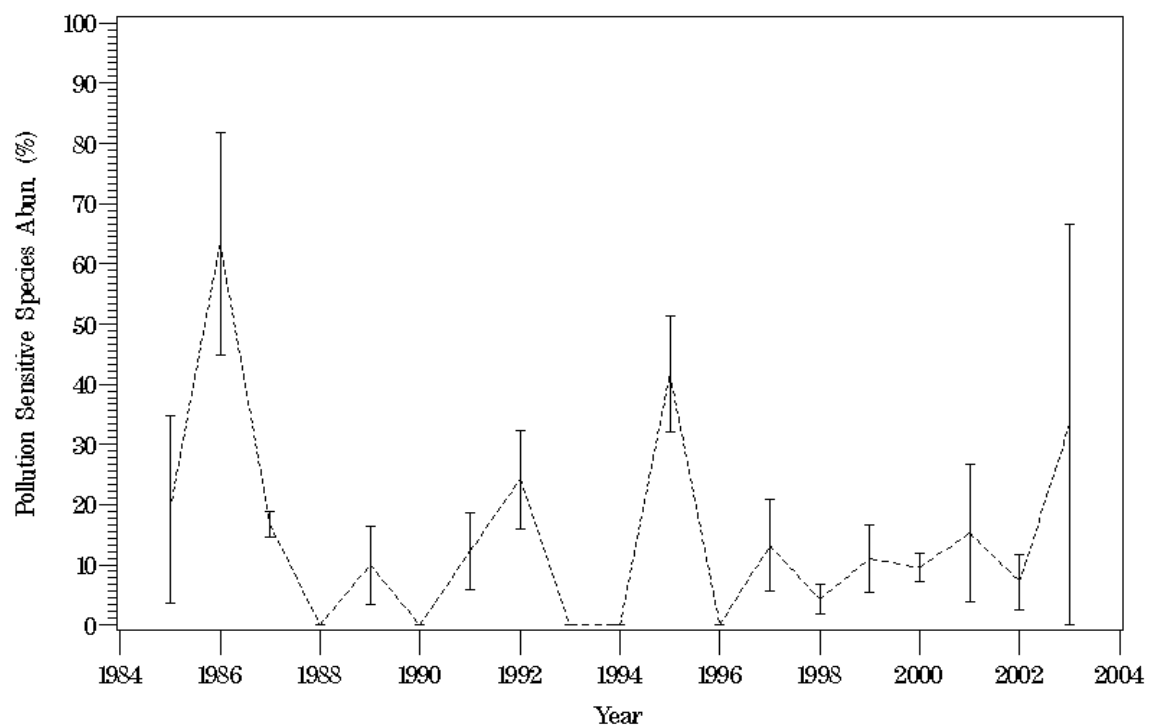


Figure M62. Plot of pollution sensitive species abundance at station LE3.2 for 1985 through 2004.

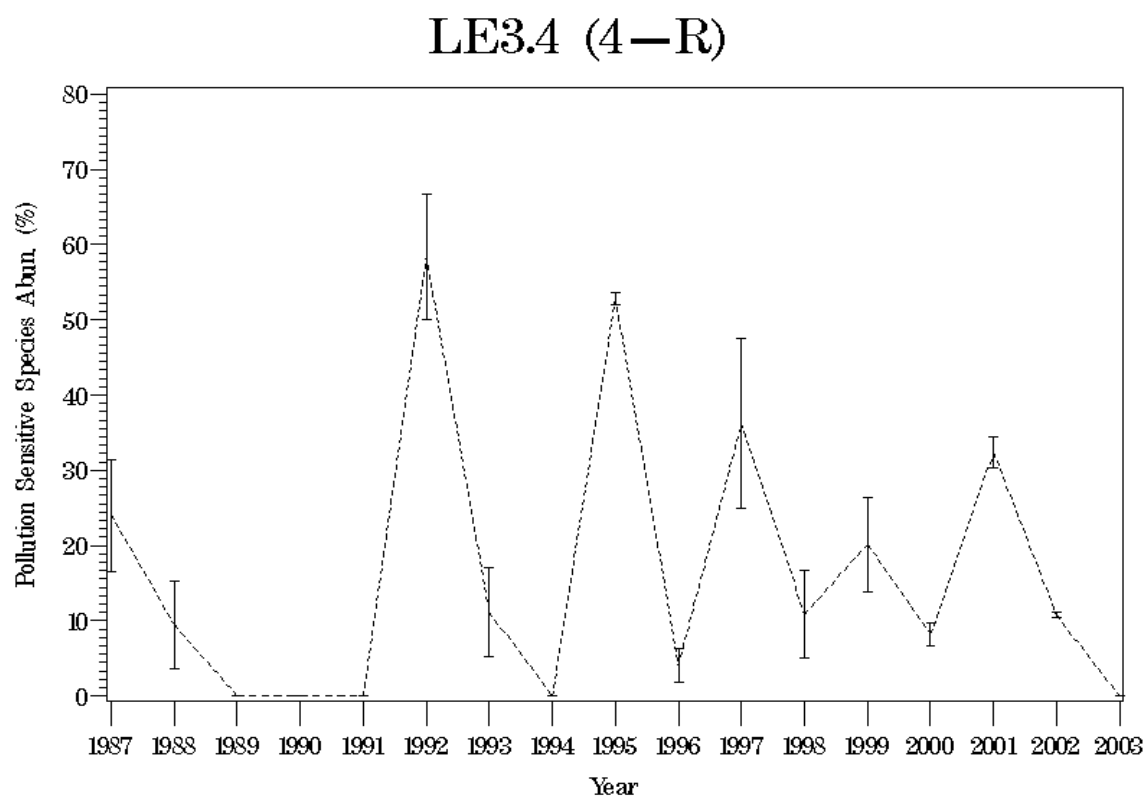


Figure M63. Plot of pollution sensitive species abundance at station LE3.4 for 1985 through 2004.

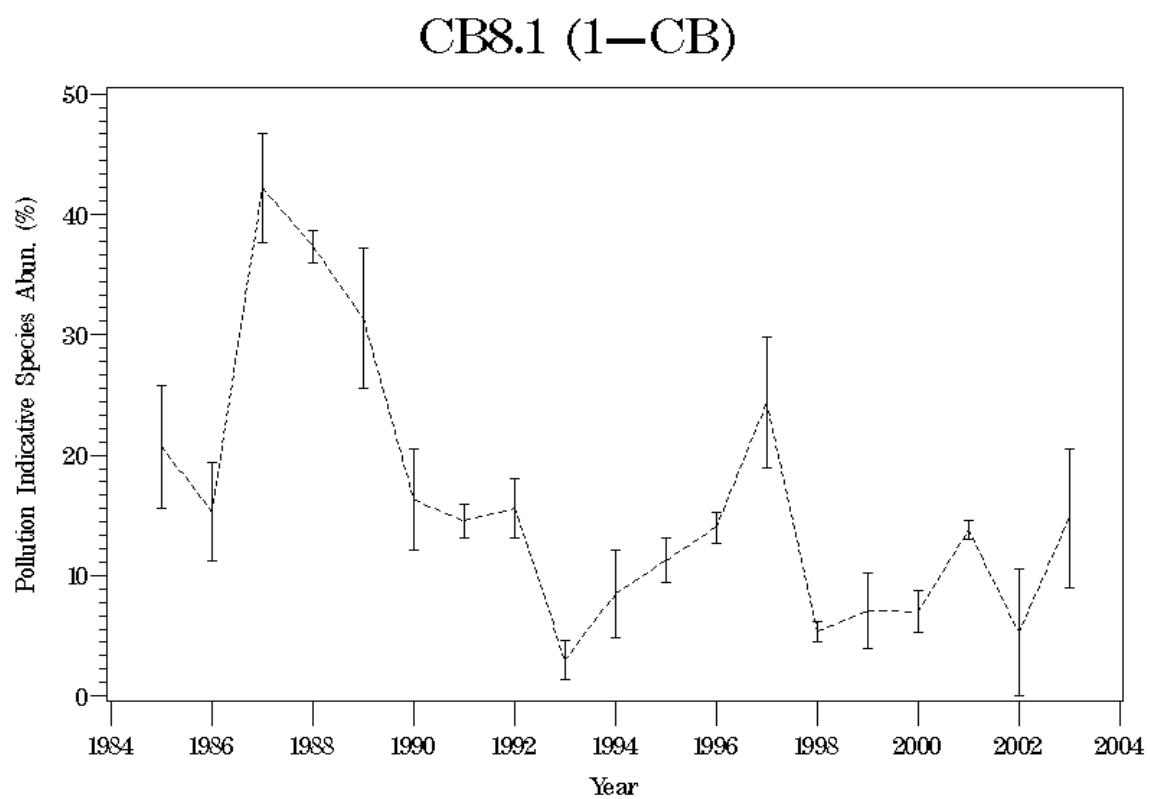


Figure M64. Plot of pollution indicative species abundance at station CB8.1 for 1985 through 2004.

## CB7.3E (2-CB)

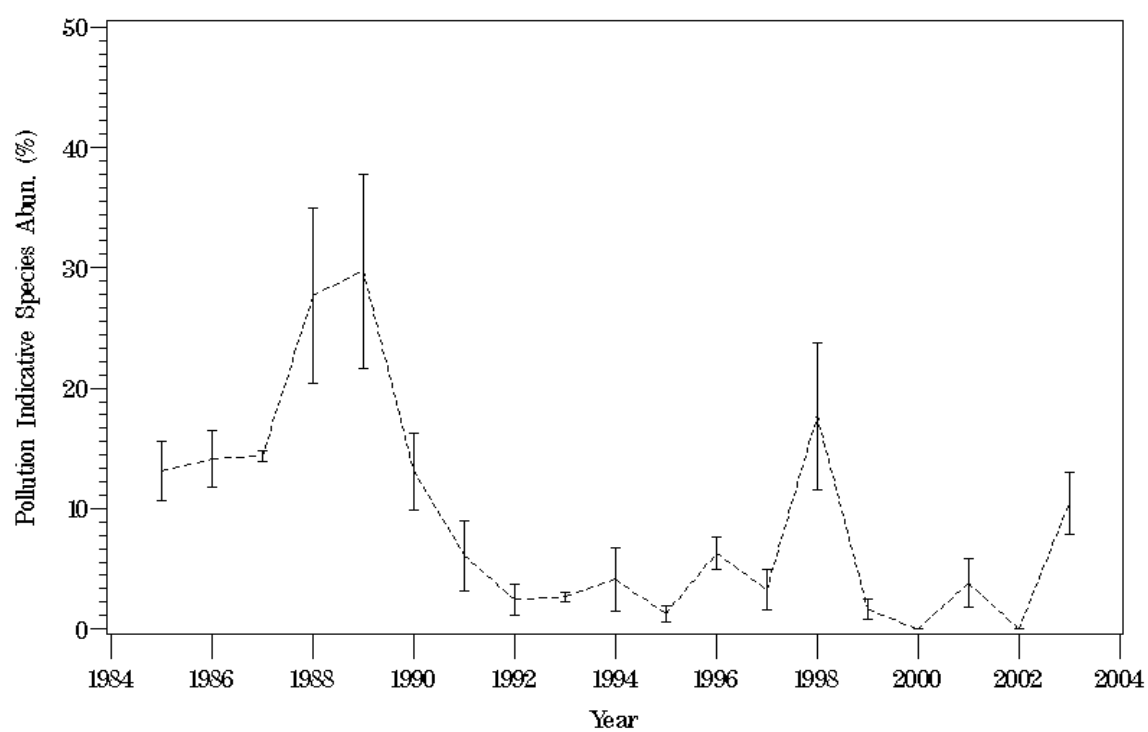


Figure M65. Plot of pollution indicative species abundance at station CB7.3E for 1985 through 2004.

## CB6.4 (3—CB)

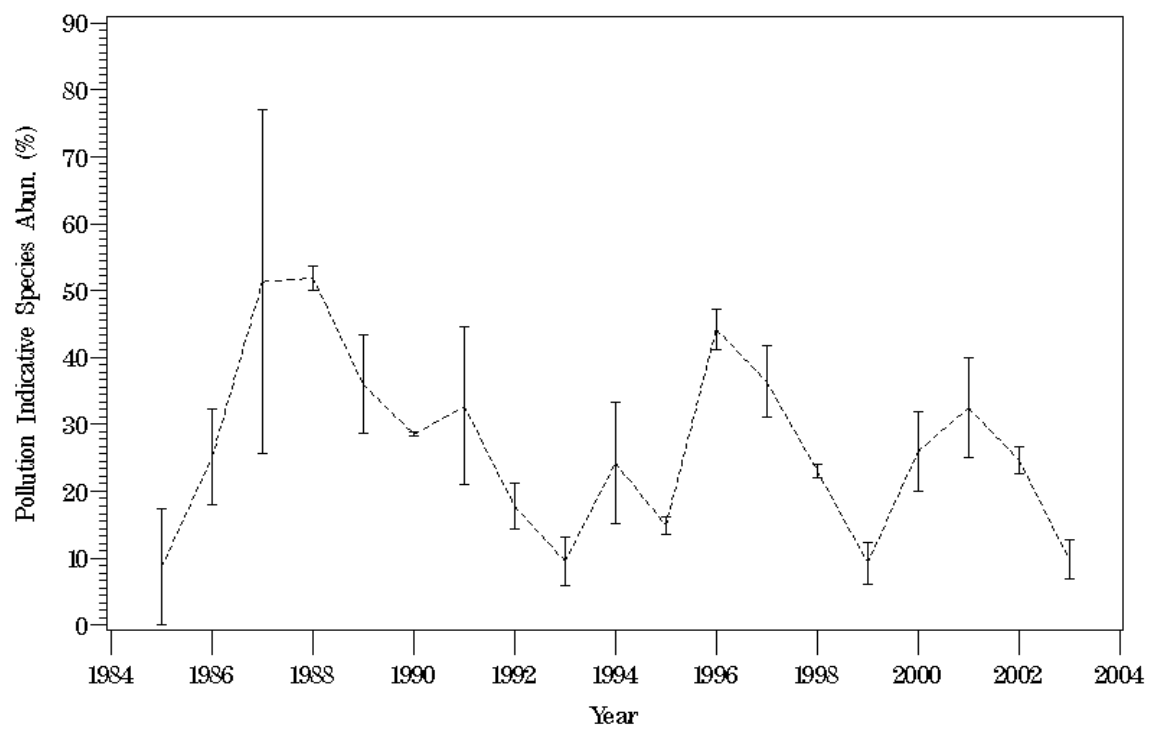


Figure M66. Plot of pollution indicative species abundance at station CB6.4 for 1985 through 2004.

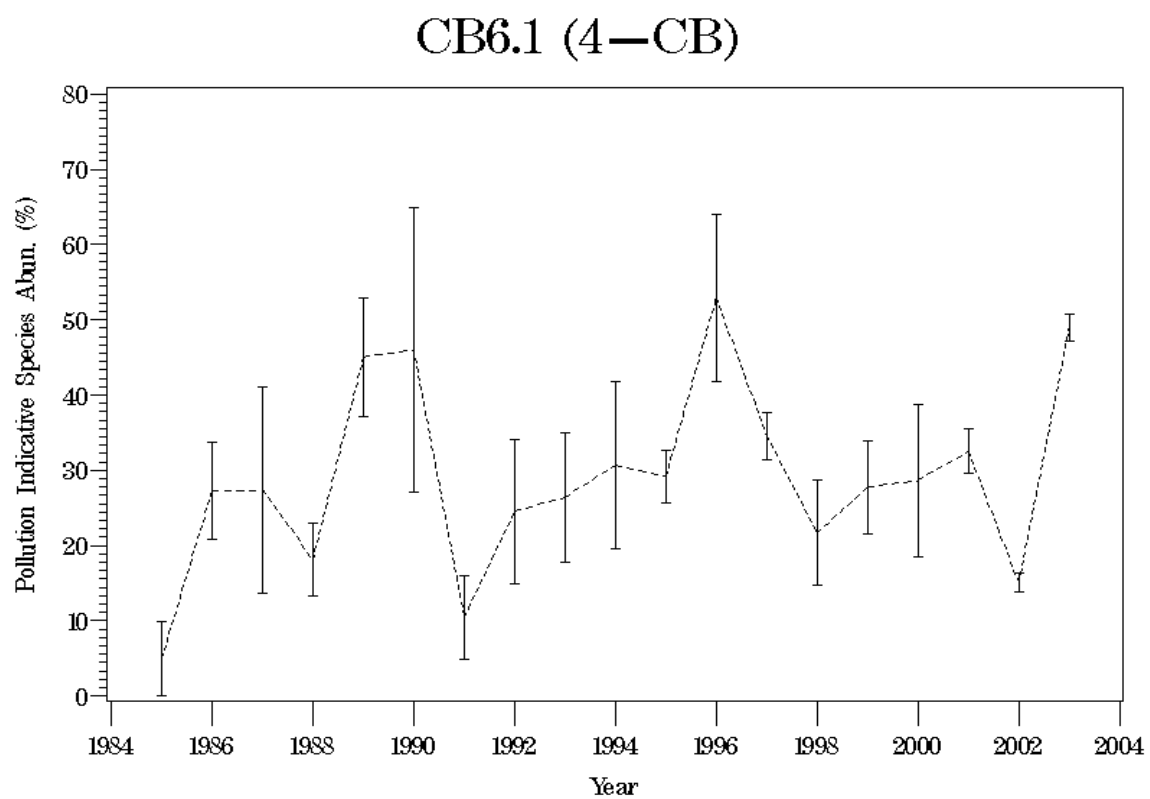


Figure M67. Plot of pollution indicative species abundance at station CB6.1 for 1985 through 2004.



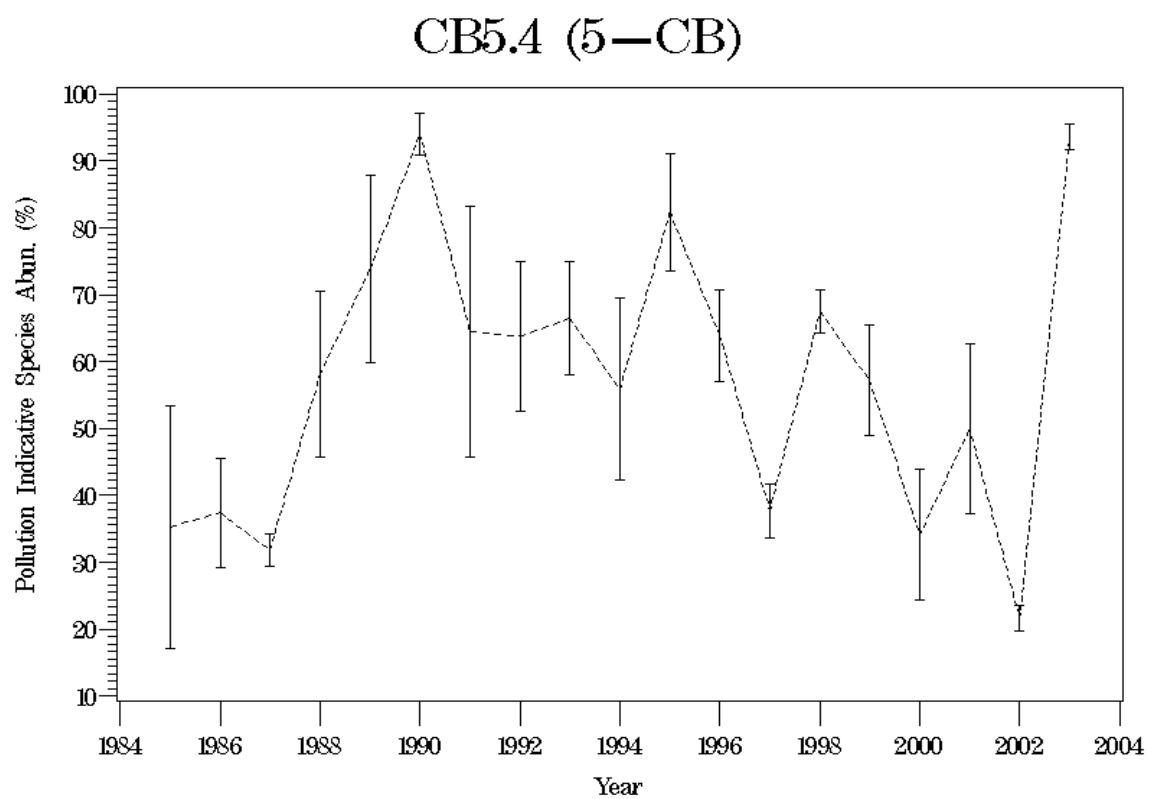


Figure M68. Plot of pollution indicative species abundance at station CB5.4 for 1985 through 2004.

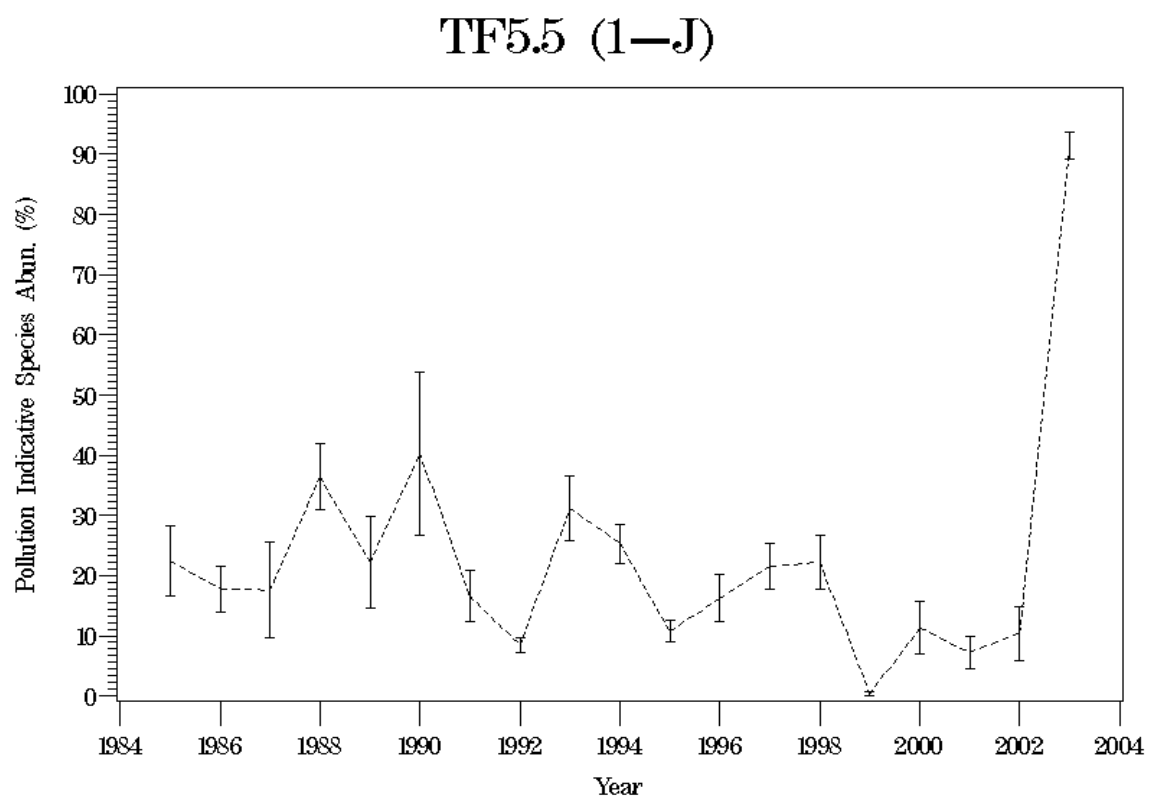


Figure M69. Plot of pollution indicative species abundance at station TF5.5 for 1985 through 2004.

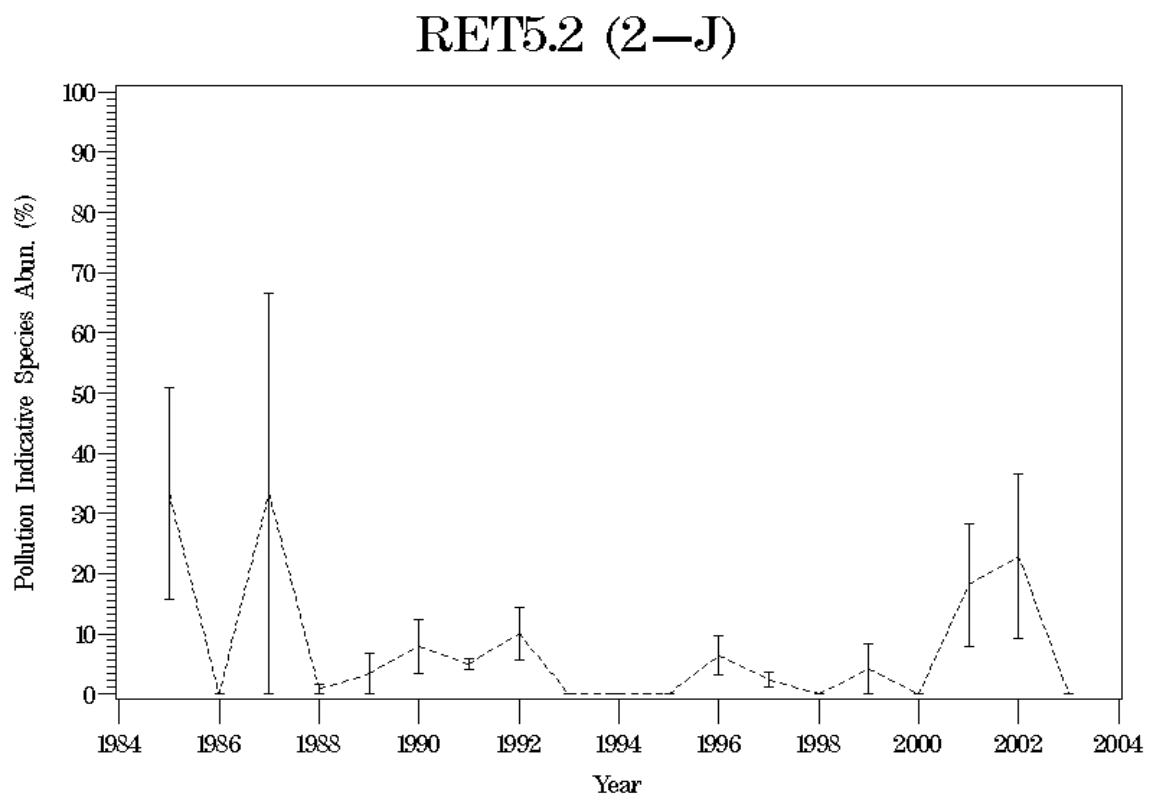


Figure M70. Plot of pollution indicative species abundance at station RET5.2 for 1985 through 2004.

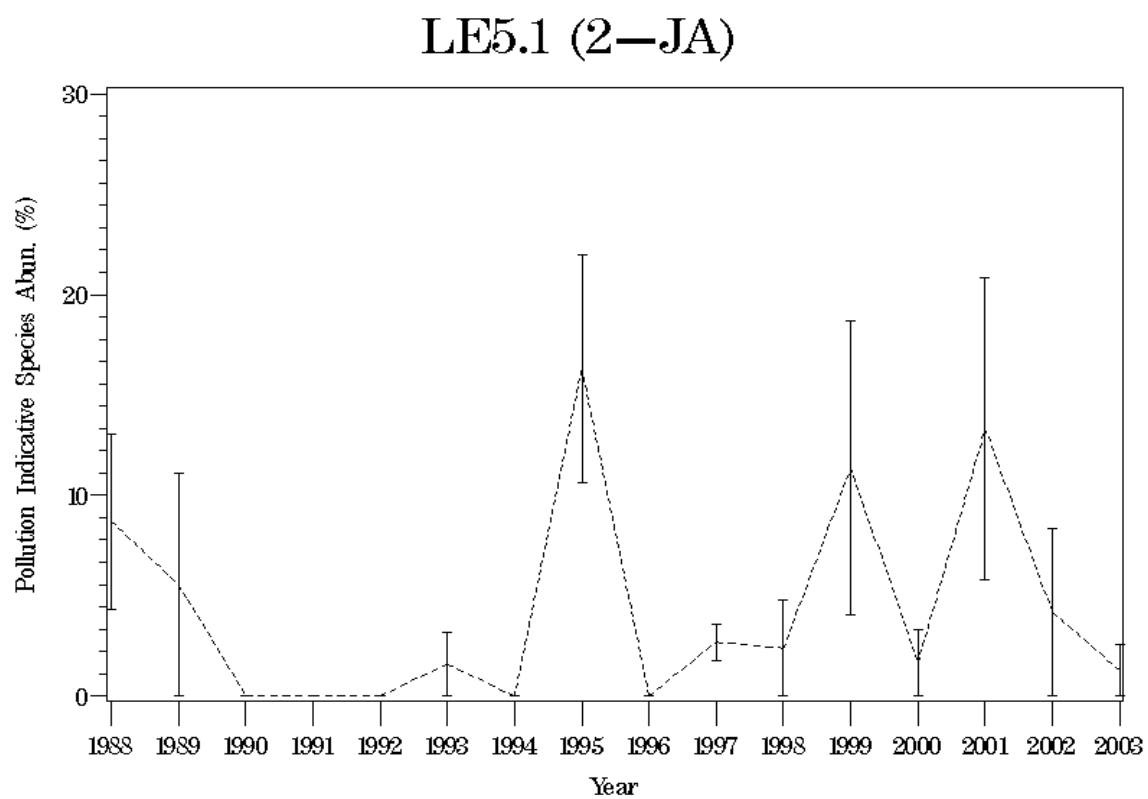


Figure M71. Plot of pollution indicative species abundance at station LE5.1 for 1985 through 2004.

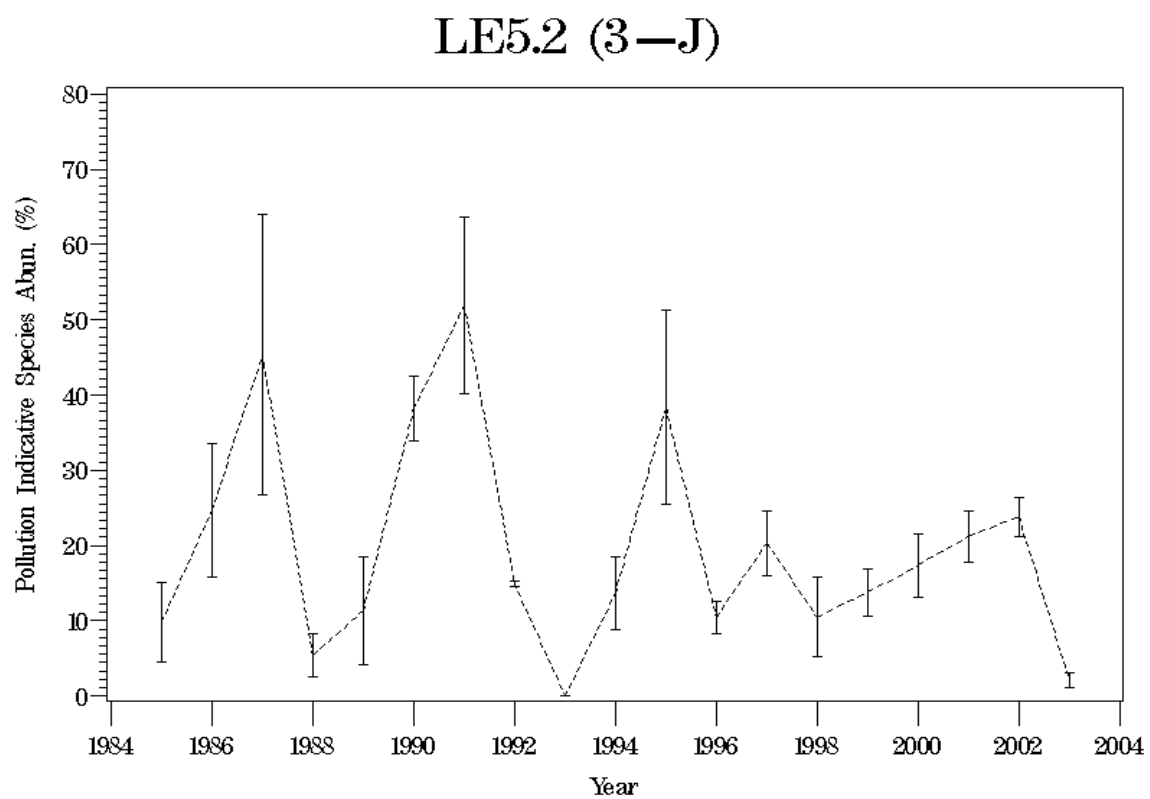


Figure M72. Plot of pollution indicative species abundance at station LE5.2 for 1985 through 2004.

## LE5.4 (4-J)

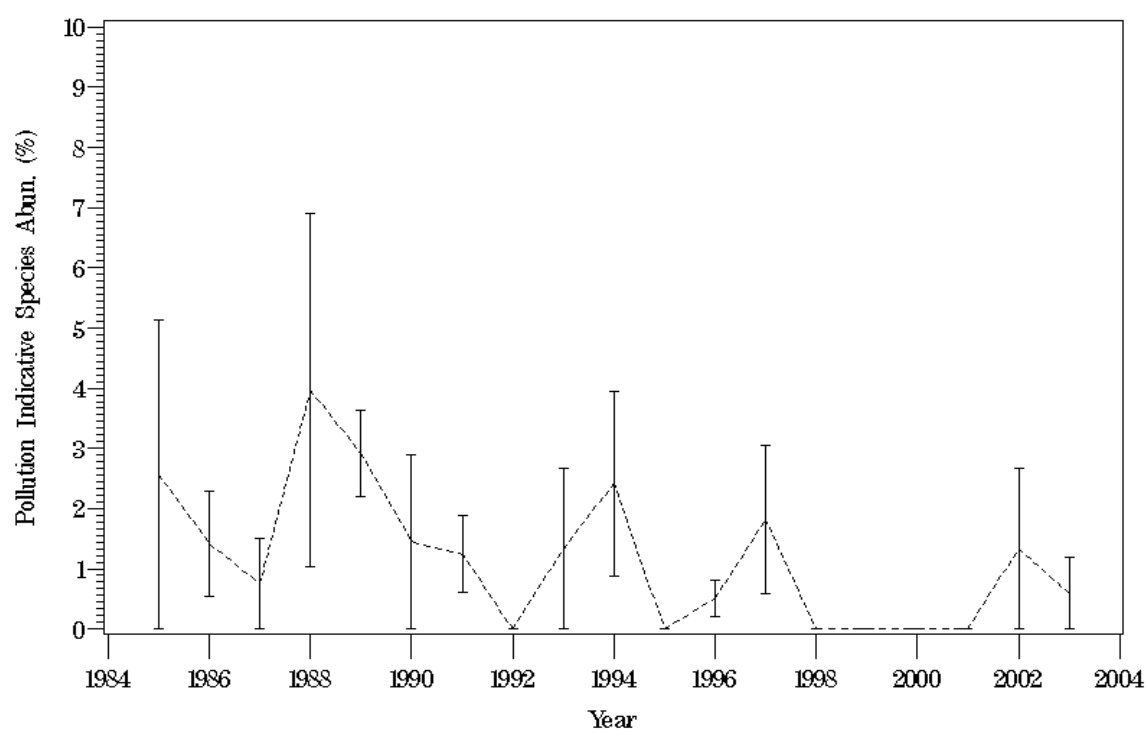


Figure M73. Plot of pollution indicative species abundance at station LE5.4 for 1985 through 2004.

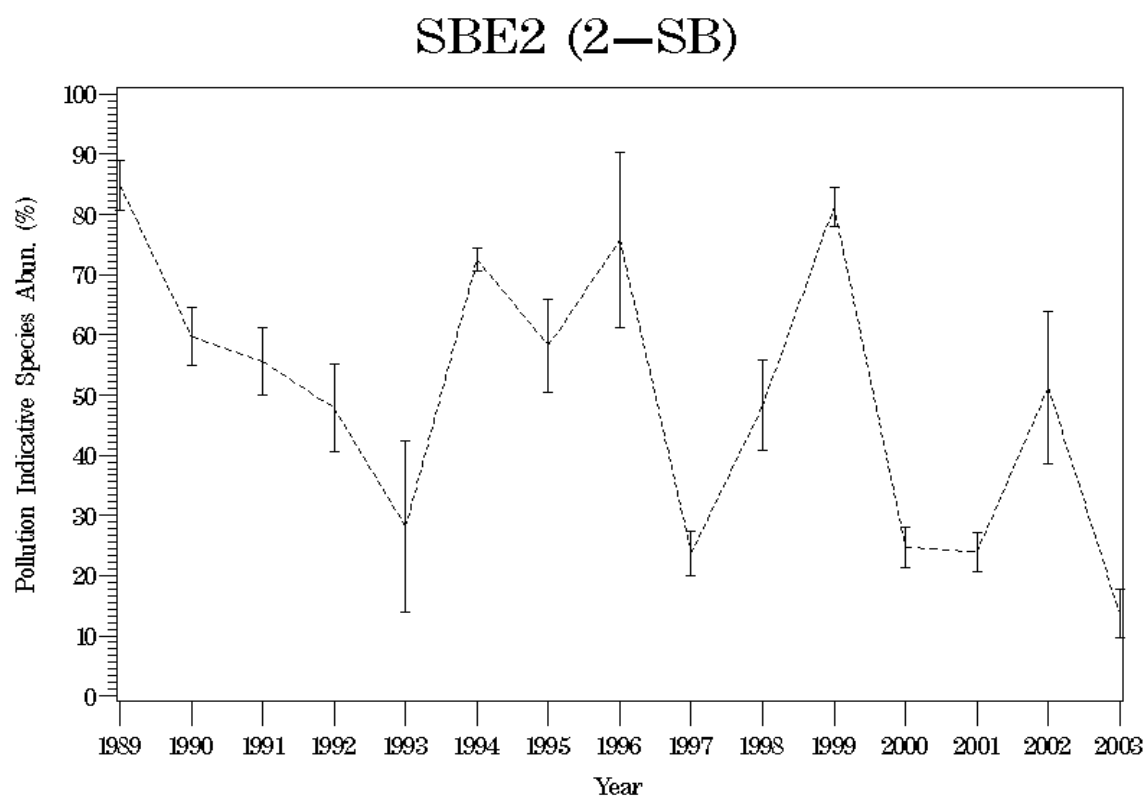


Figure M74. Plot of pollution indicative species abundance at station SBE2 for 1985 through 2004.

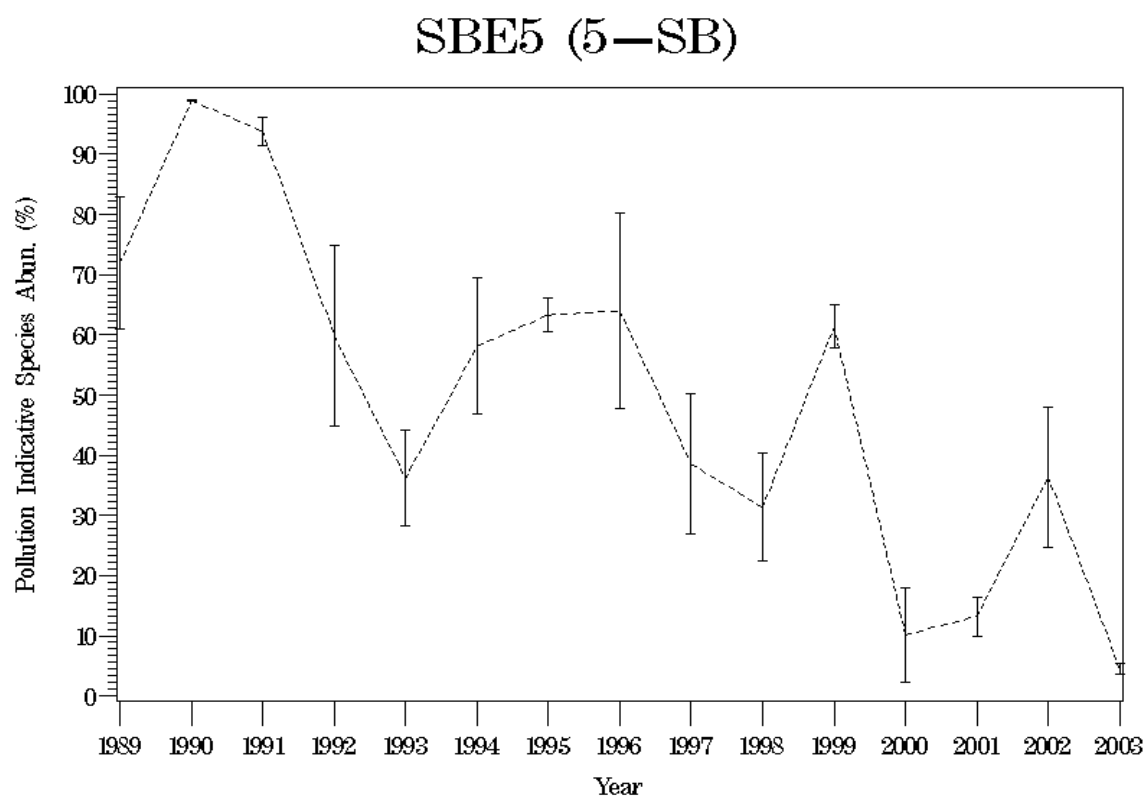


Figure M75. Plot of pollution indicative species abundance at station SBE5 for 1985 through 2004.



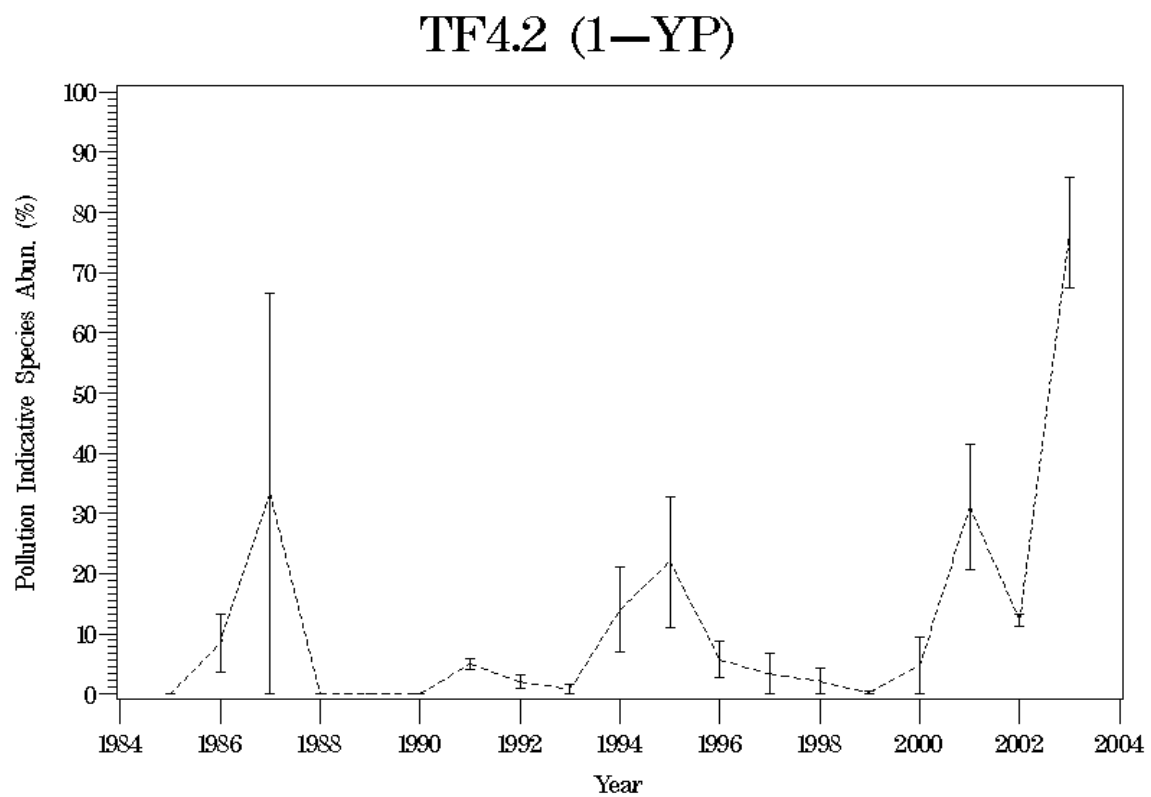


Figure M76. Plot of pollution indicative species abundance at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

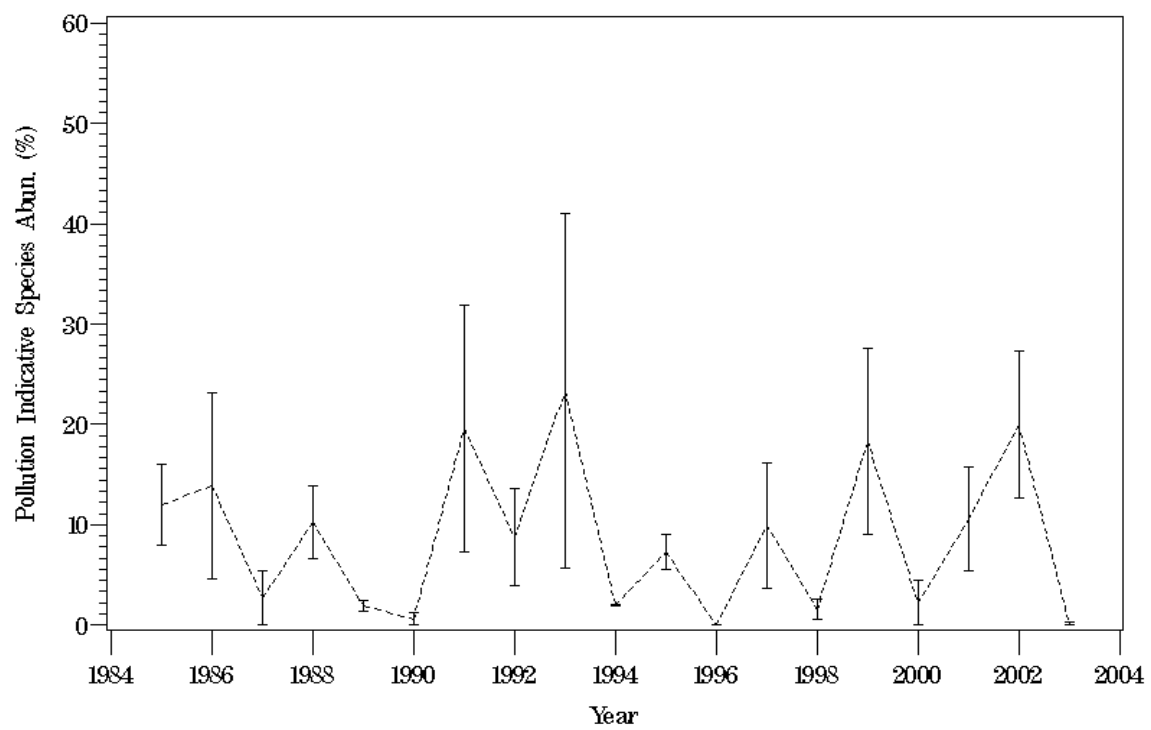


Figure M77. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2004.

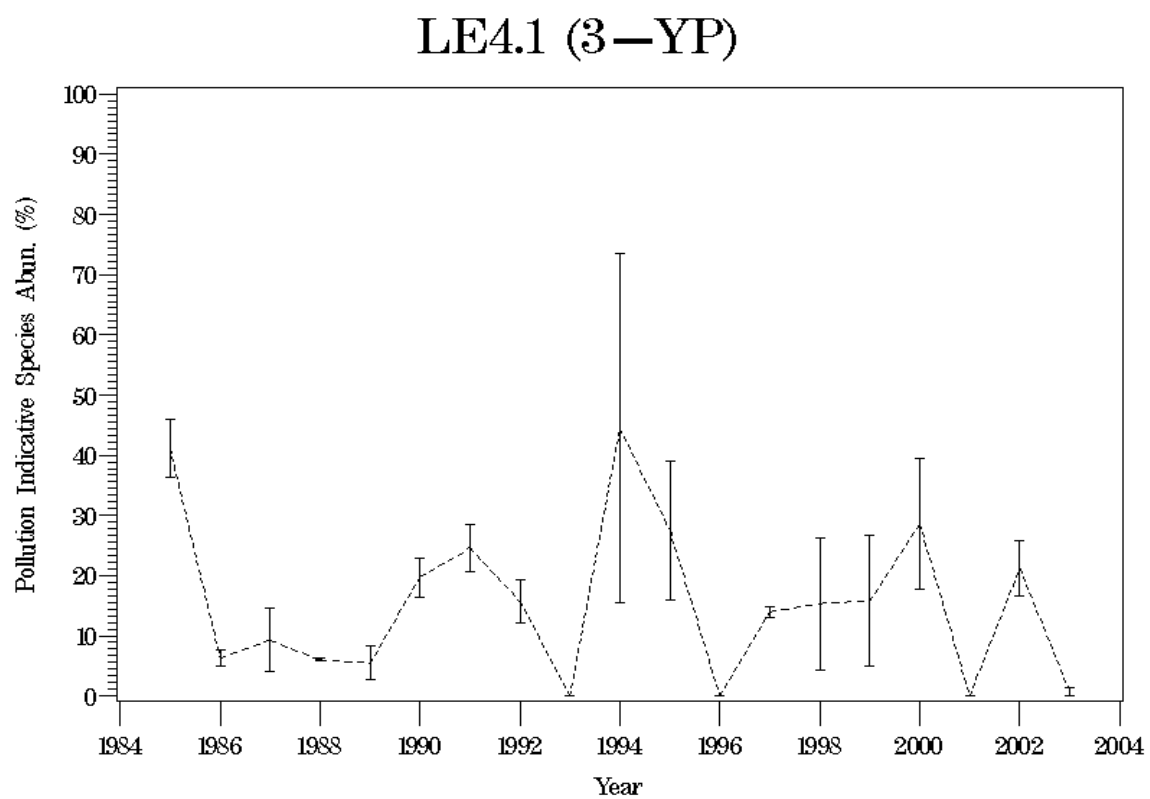


Figure M78. Plot of pollution indicative species abundance at station LE4.1 for 1985 through 2004.

## LE4.3 (4-YP)

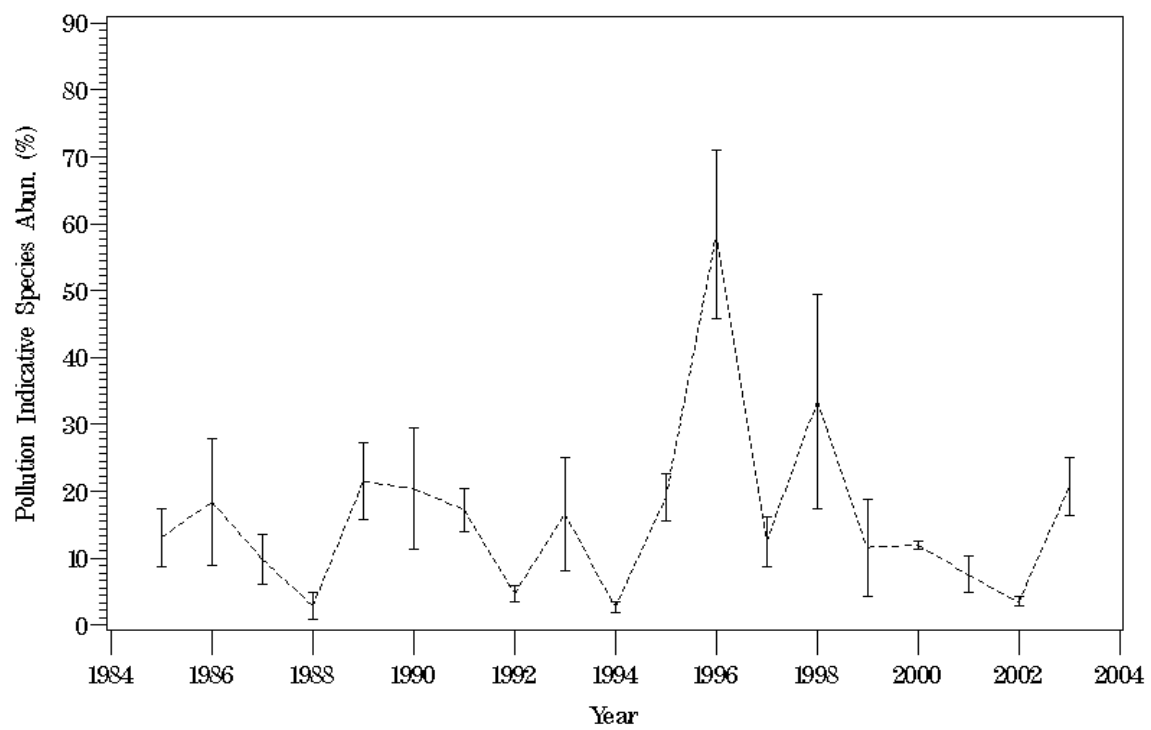


Figure M79. Plot of pollution indicative species abundance at station LE4.3 for 1985 through 2004.

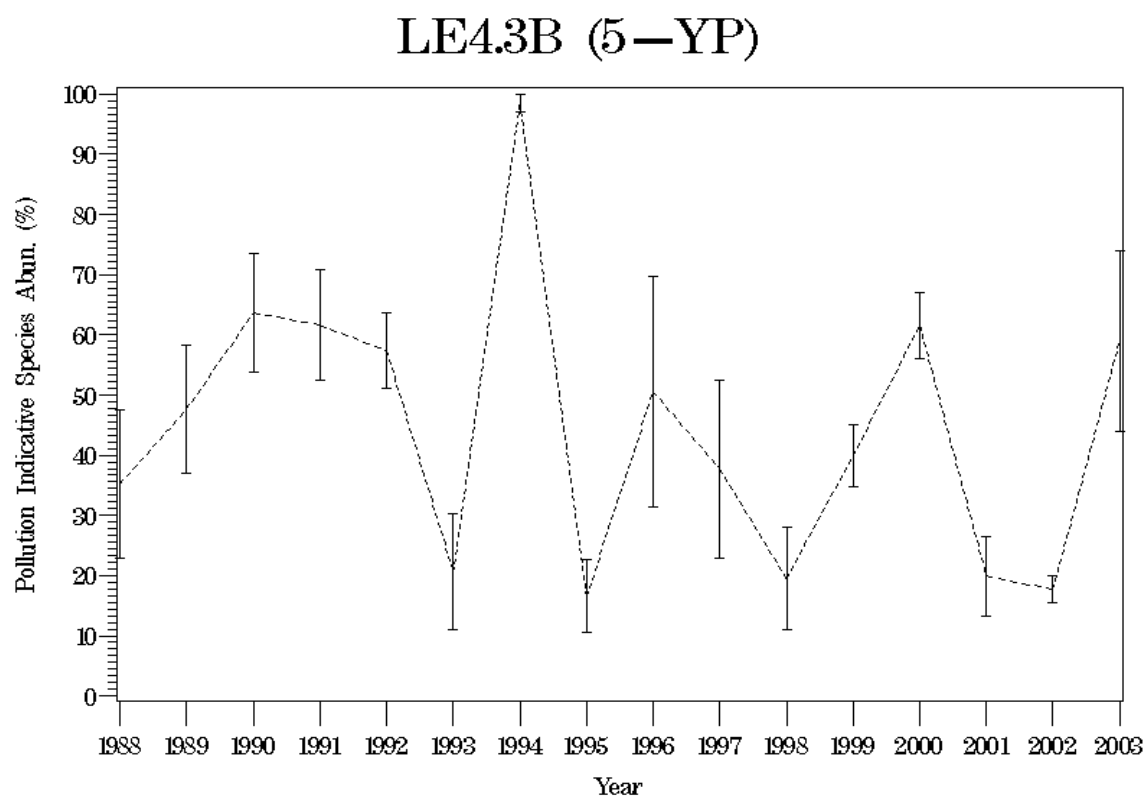


Figure M80. Plot of pollution indicative species abundance at station LE4.3B for 1985 through 2004.

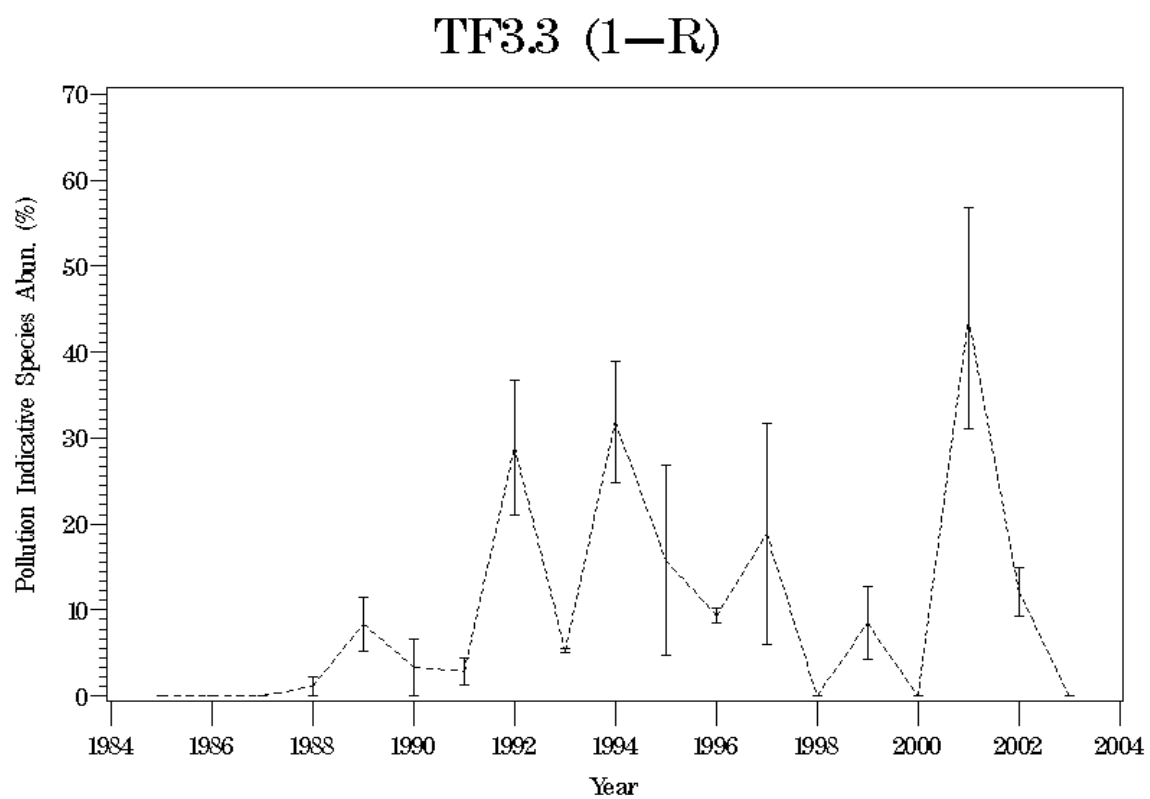


Figure M81. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2004.

## RET3.1 (2-R)

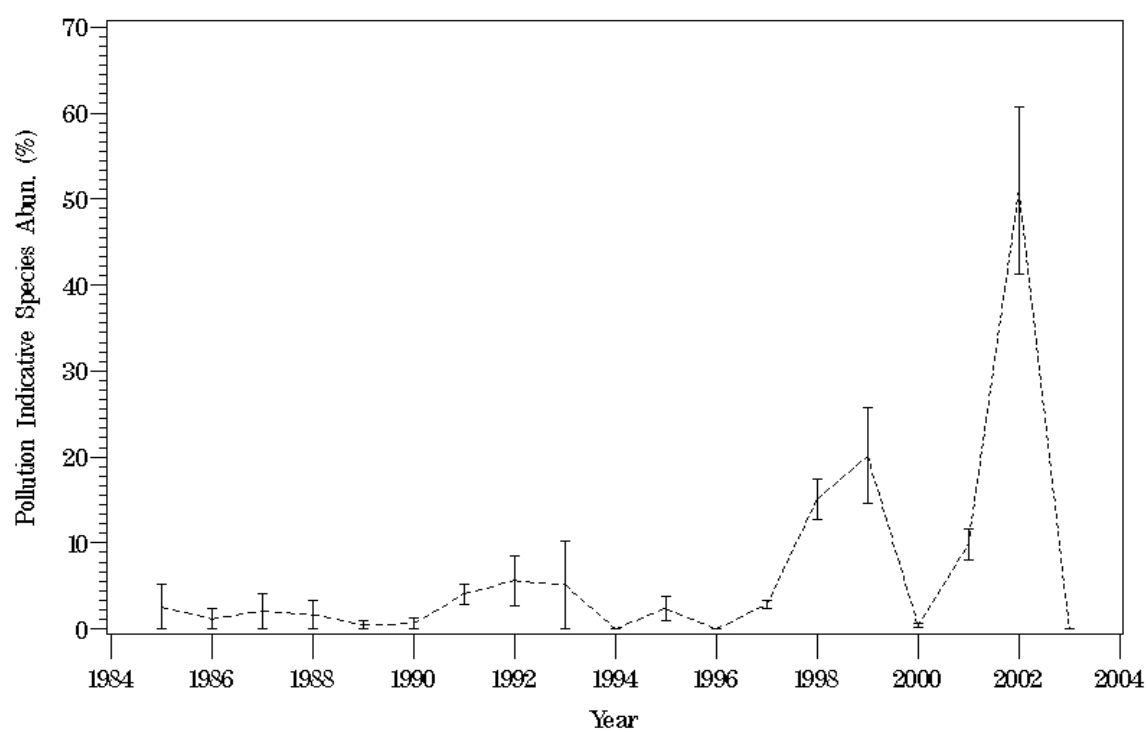


Figure M82. Plot of pollution indicative species abundance at station RET3.1 for 1985 through 2004.

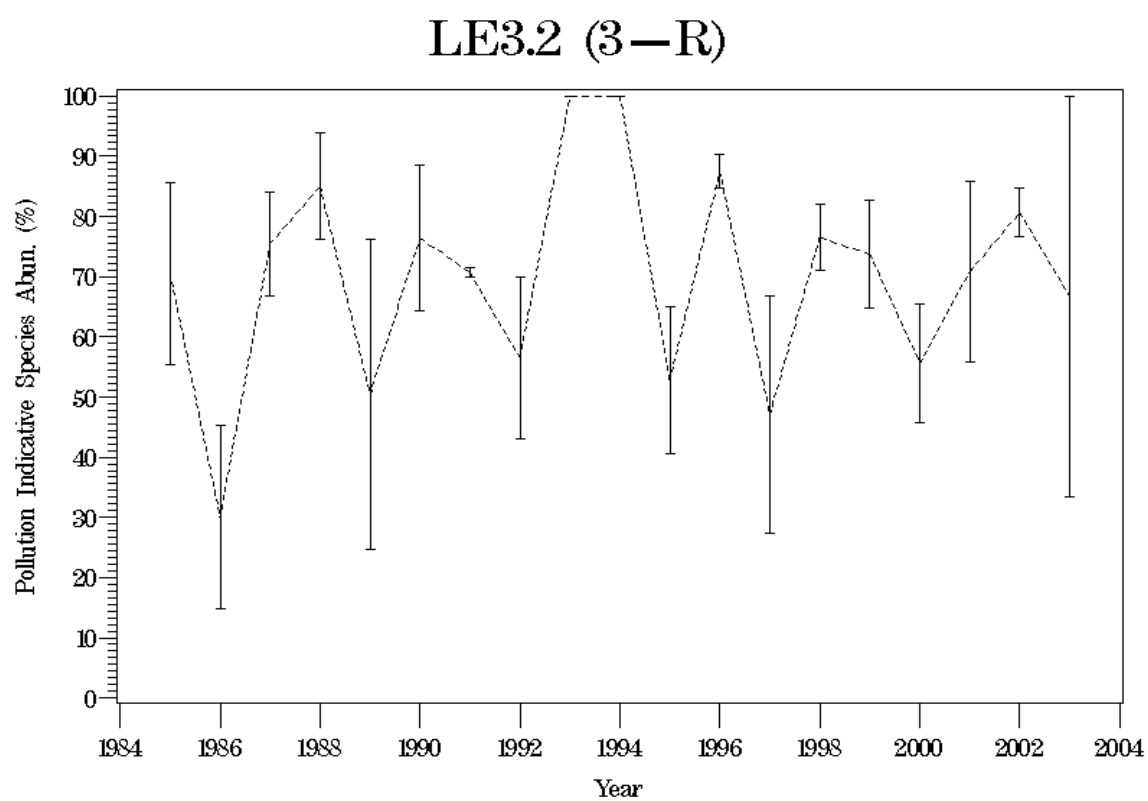


Figure M83. Plot of pollution indicative species abundance at station LE3.2 for 1985 through 2004.



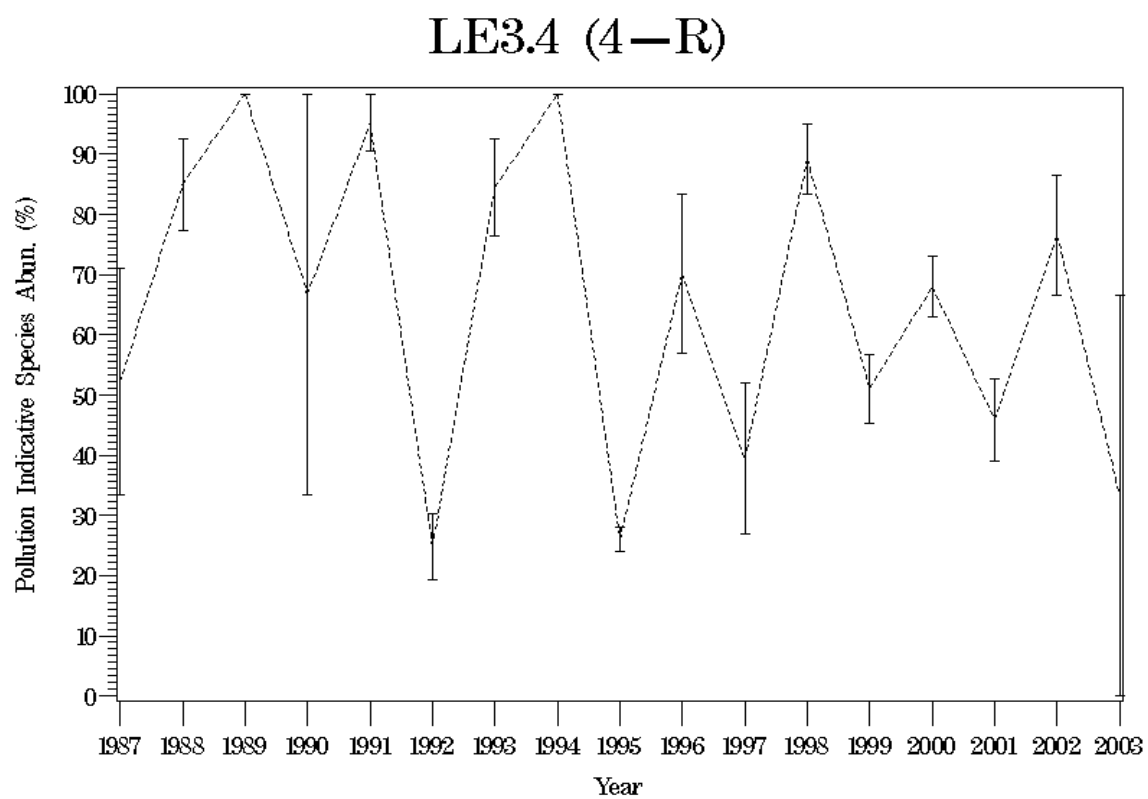


Figure M84. Plot of pollution indicative species abundance at station LE3.4 for 1985 through 2004.

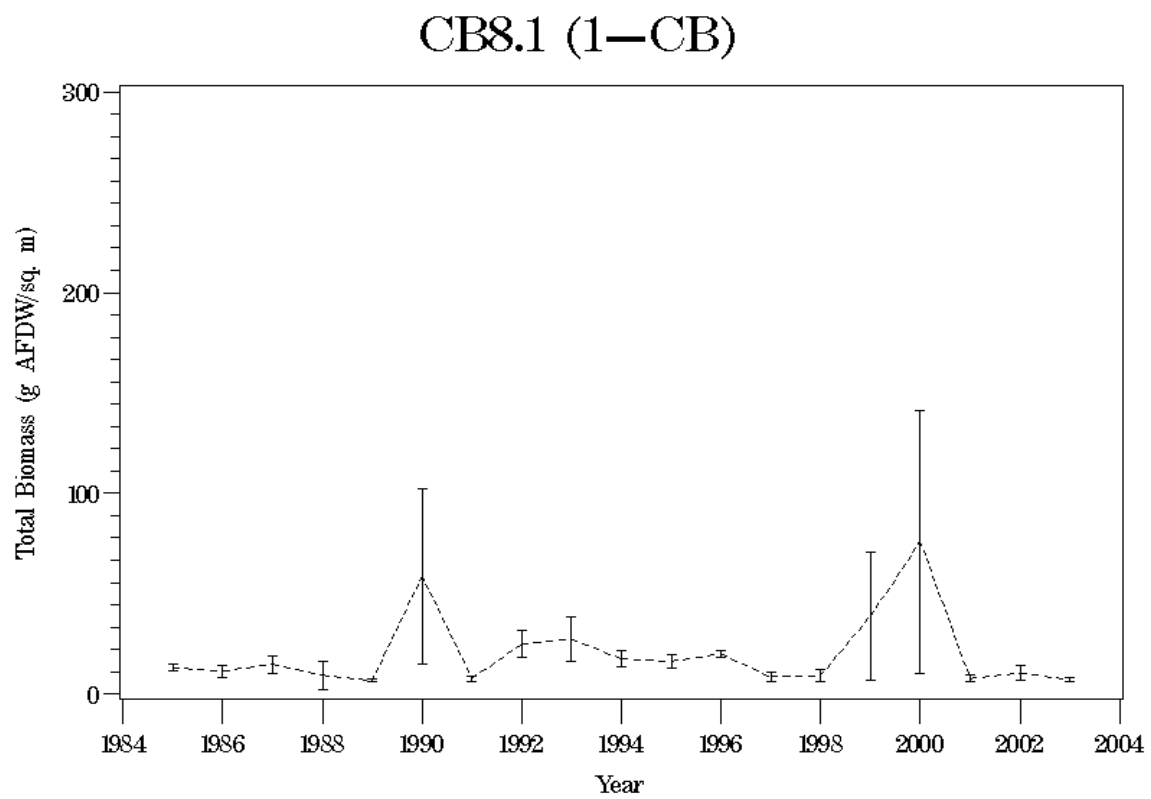


Figure M85. Plot of total benthic community biomass at station CB8.1 for 1985 through 2004.

## CB7.3E (2-CB)

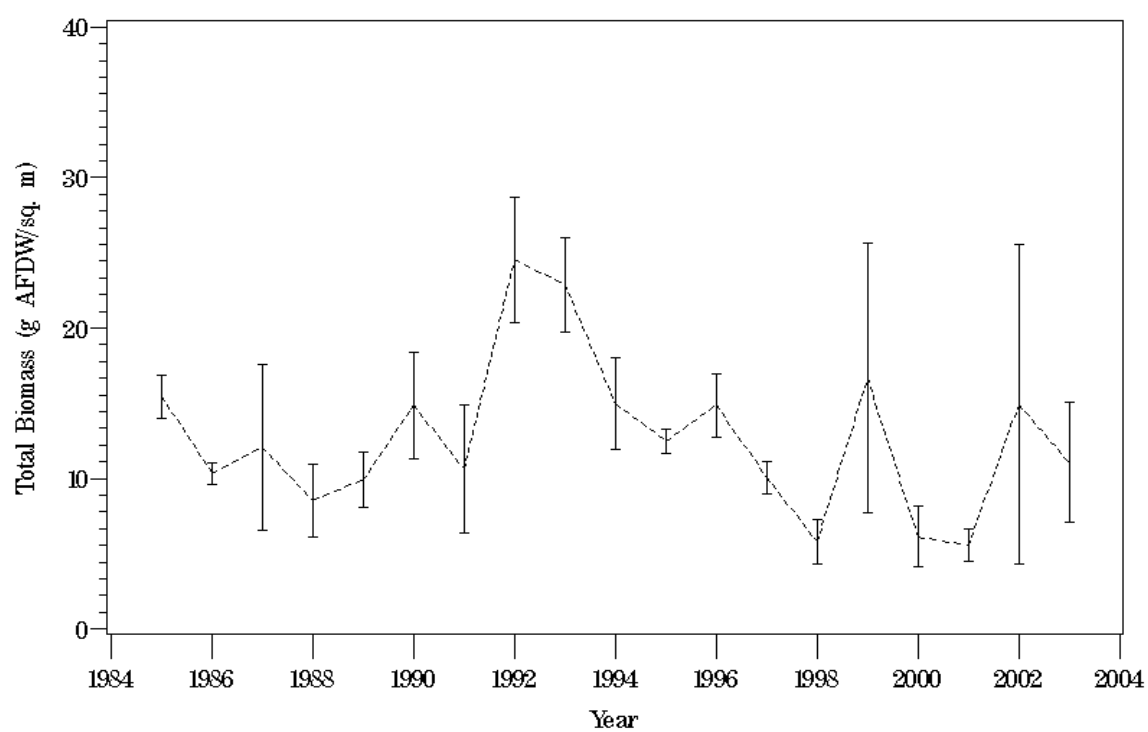


Figure M86. Plot of total benthic community biomass at station CB7.3E for 1985 through 2004.

### CB6.4 (3—CB)

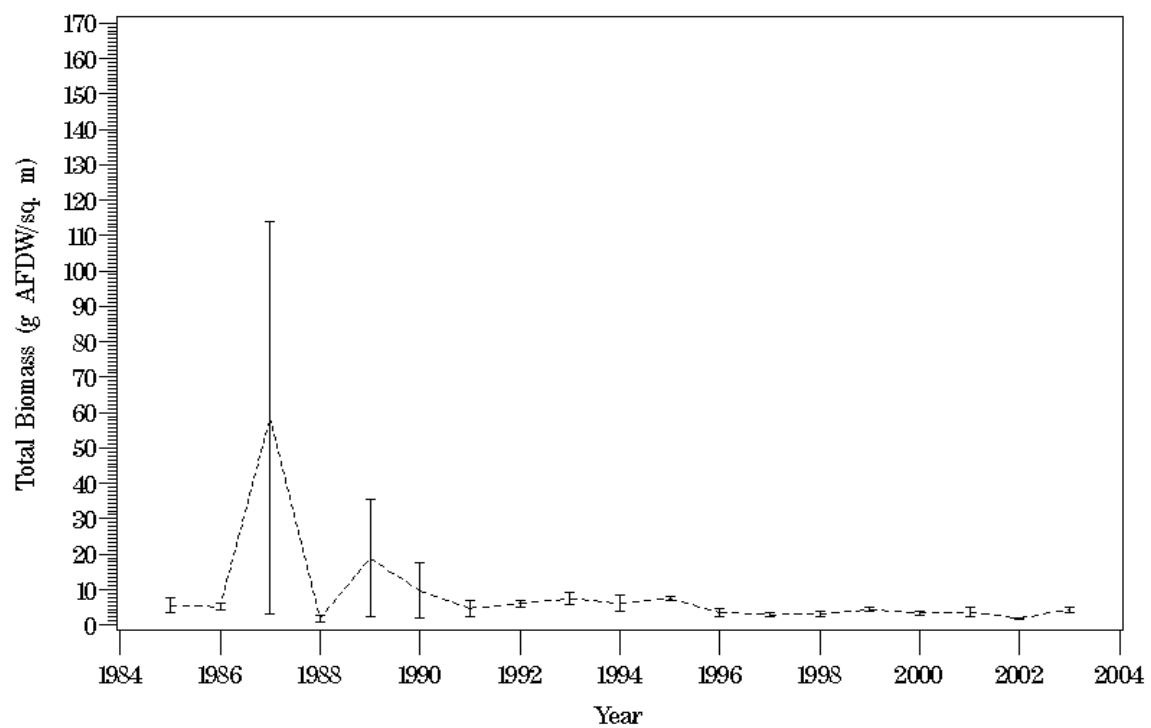


Figure M87. Plot of total benthic community biomass at station CB6.4 for 1985 through 2004.

## CB6.1 (4—CB)

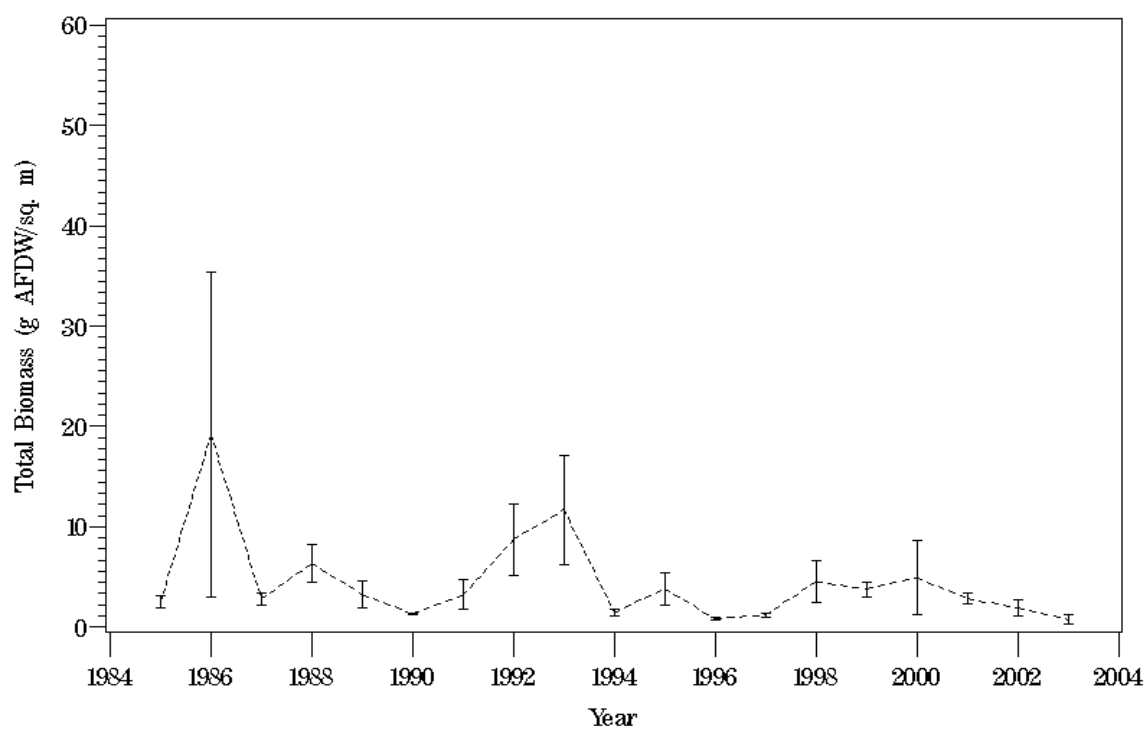


Figure M88. Plot of total benthic community biomass at station CB6.1 for 1985 through 2004.

## CB5.4 (5—CB)

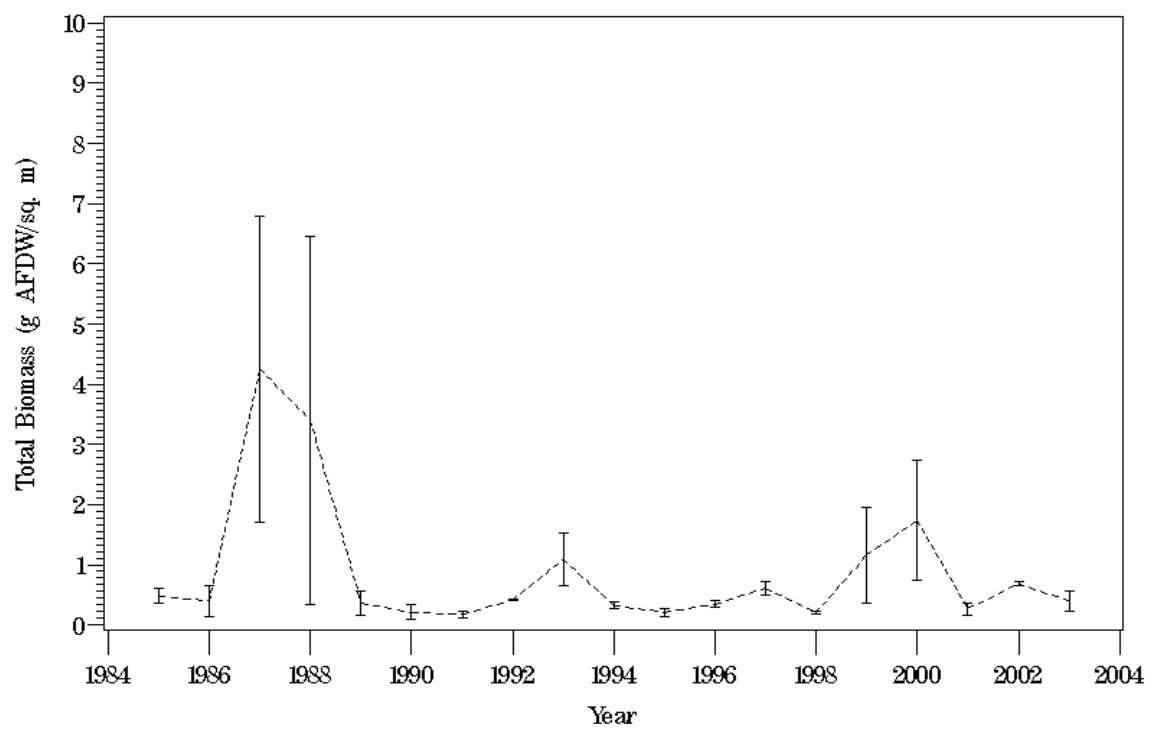


Figure M89. Plot of total benthic community biomass at station CB5.4 for 1985 through 2004.

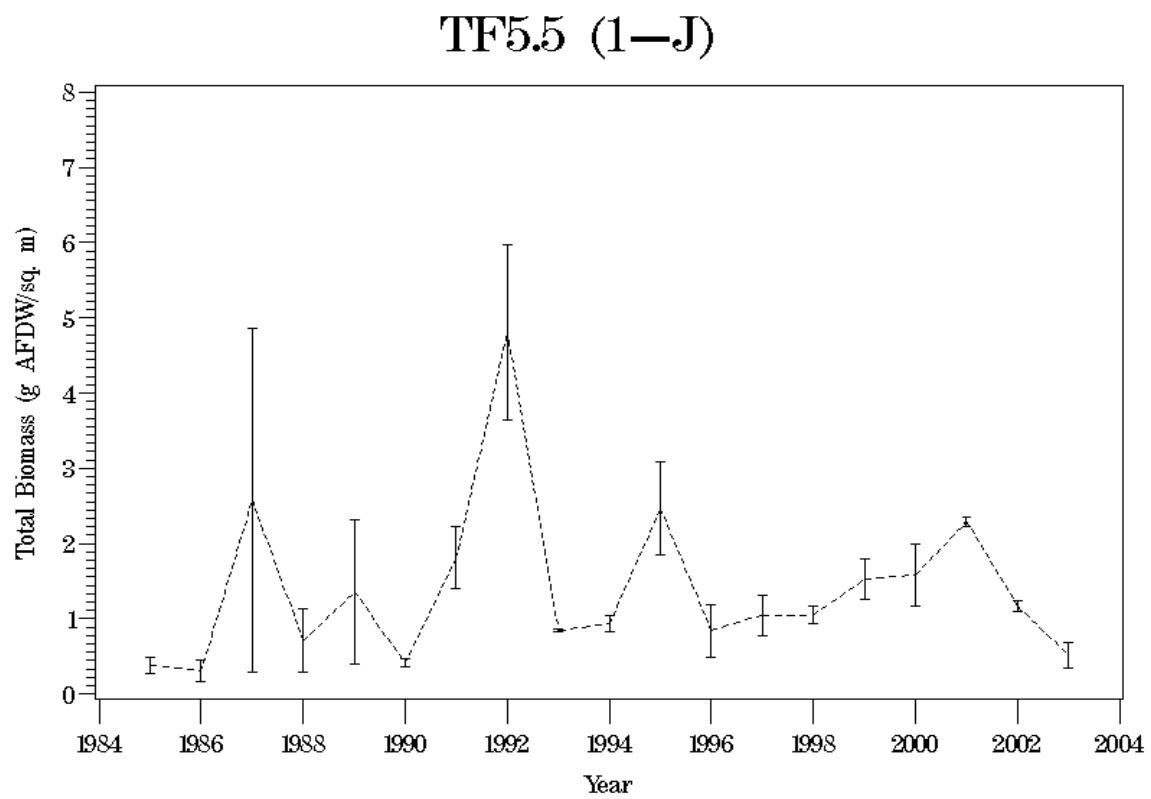


Figure M90. Plot of total benthic community biomass at station TF5.5 for 1985 through 2004.

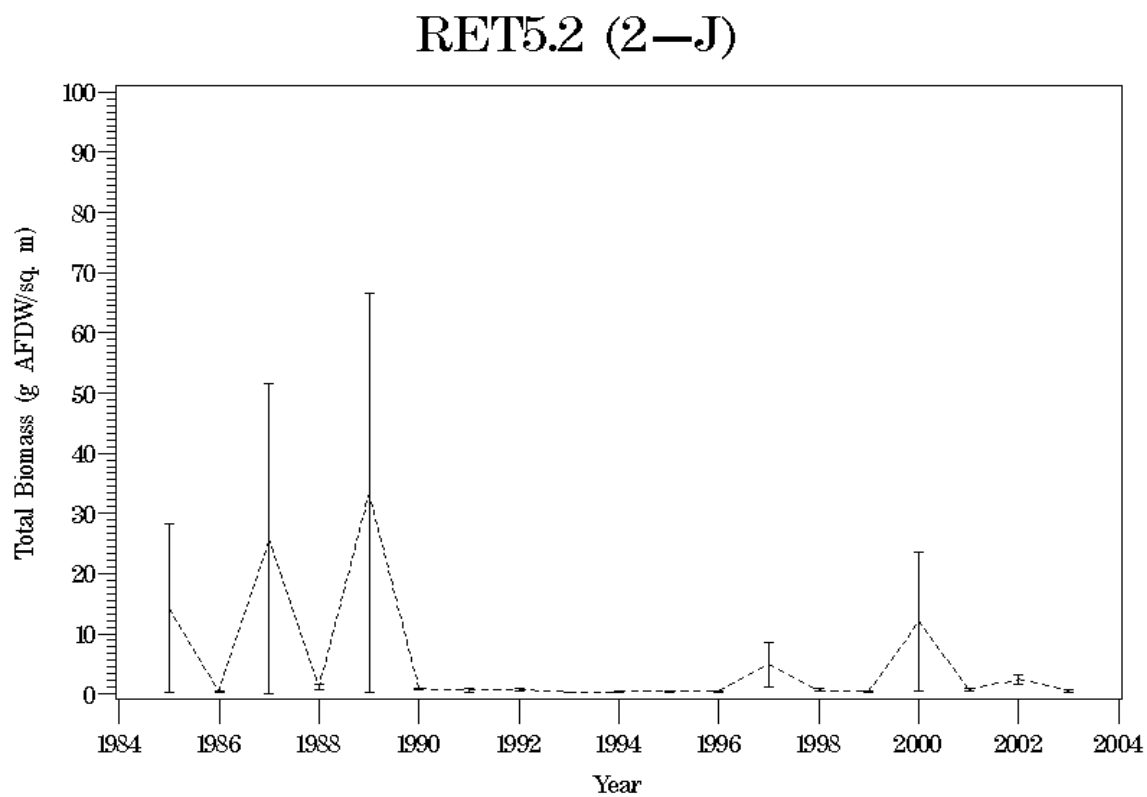


Figure M91. Plot of total benthic community biomass at station RET5.2 for 1985 through 2004.



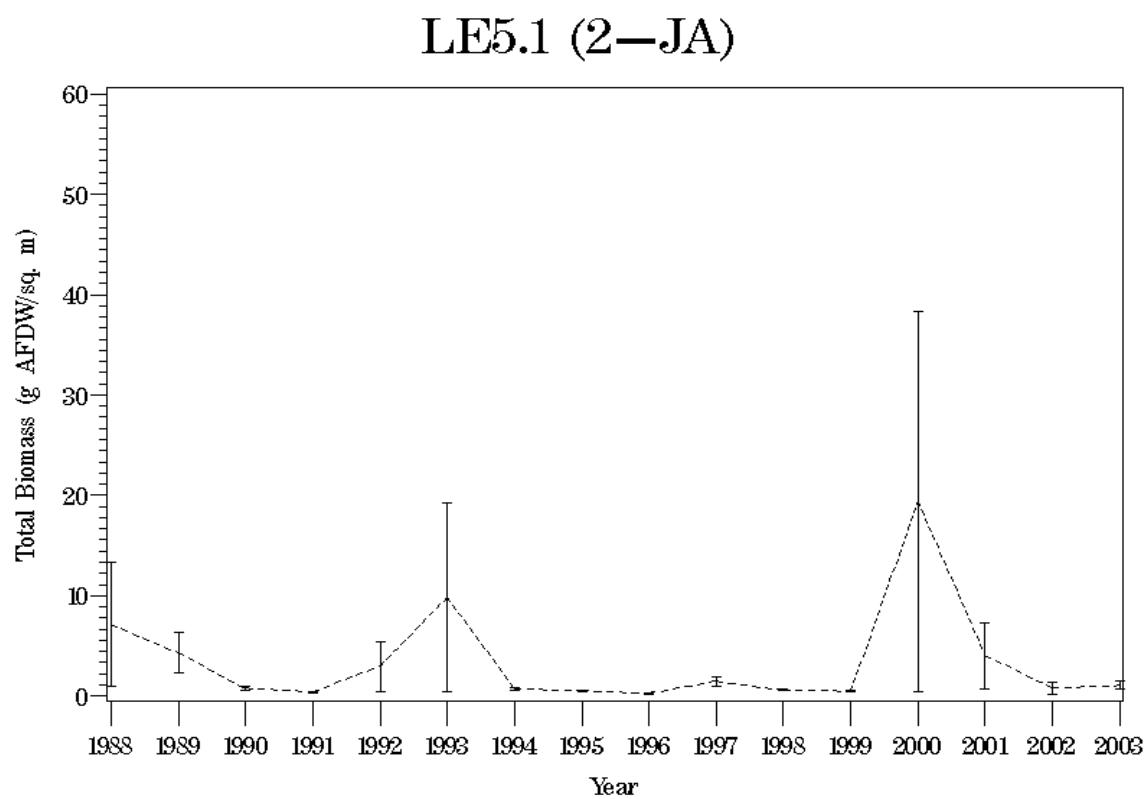


Figure M92. Plot of total benthic community biomass at station LE5.1 for 1985 through 2004.

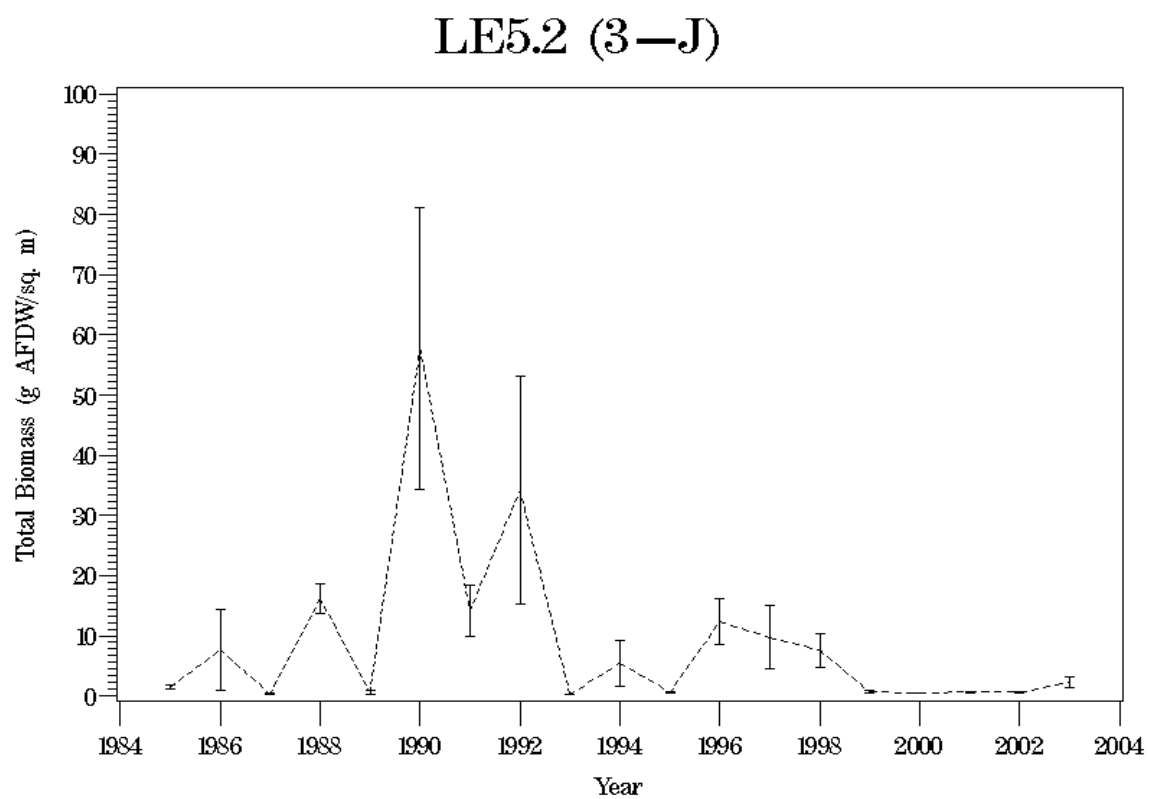


Figure M93. Plot of total benthic community biomass at station LE5.2 for 1985 through 2004.

## LE5.4 (4-J)

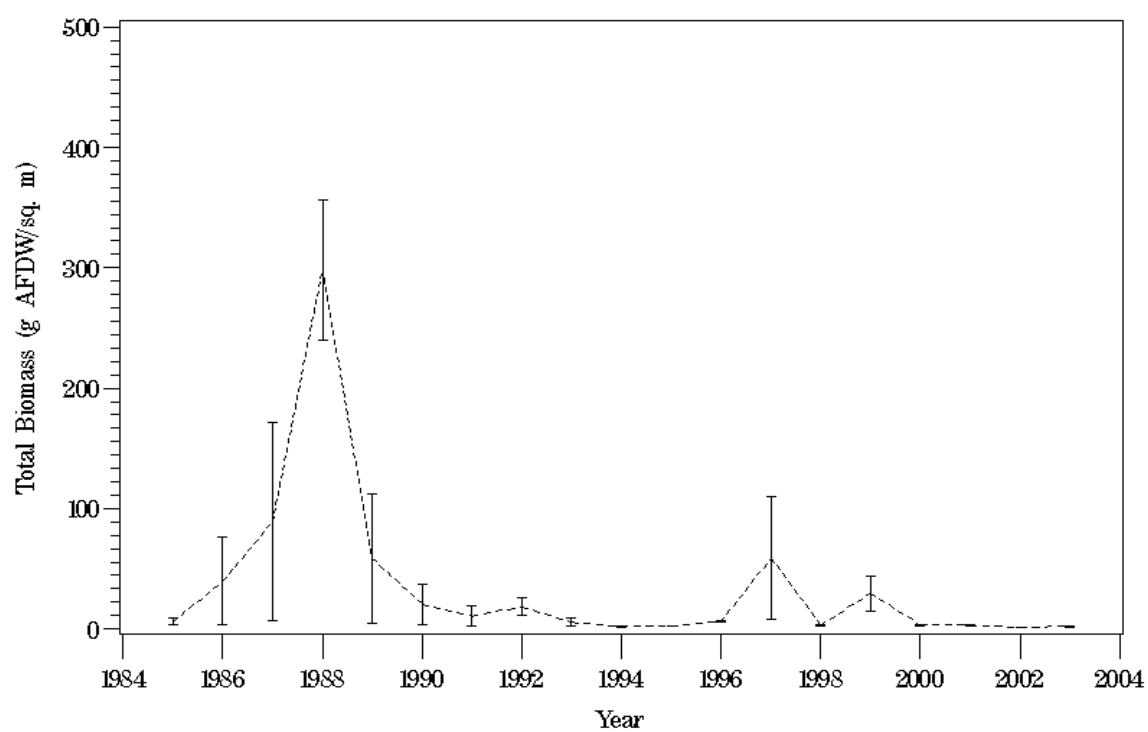


Figure M94. Plot of total benthic community biomass at station LE5.4 for 1985 through 2004.

## SBE2 (2—SB)

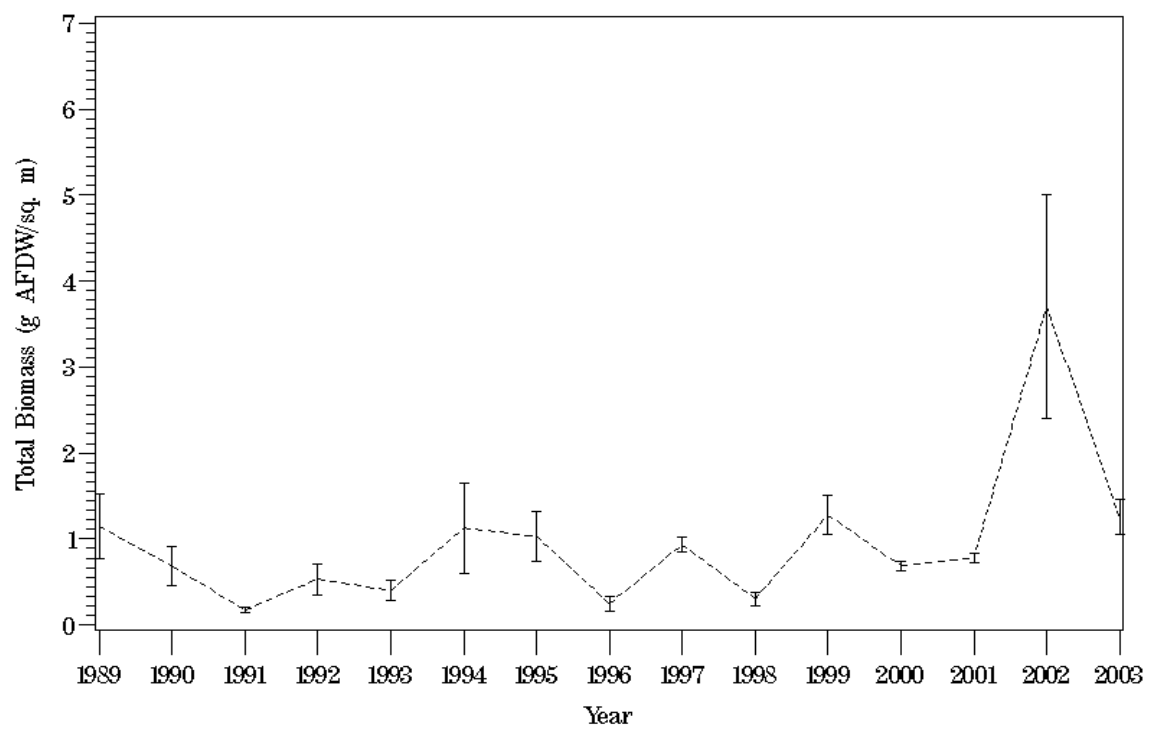


Figure M95. Plot of total benthic community biomass at station SBE2 for 1985 through 2004.

## SBE5 (5—SB)

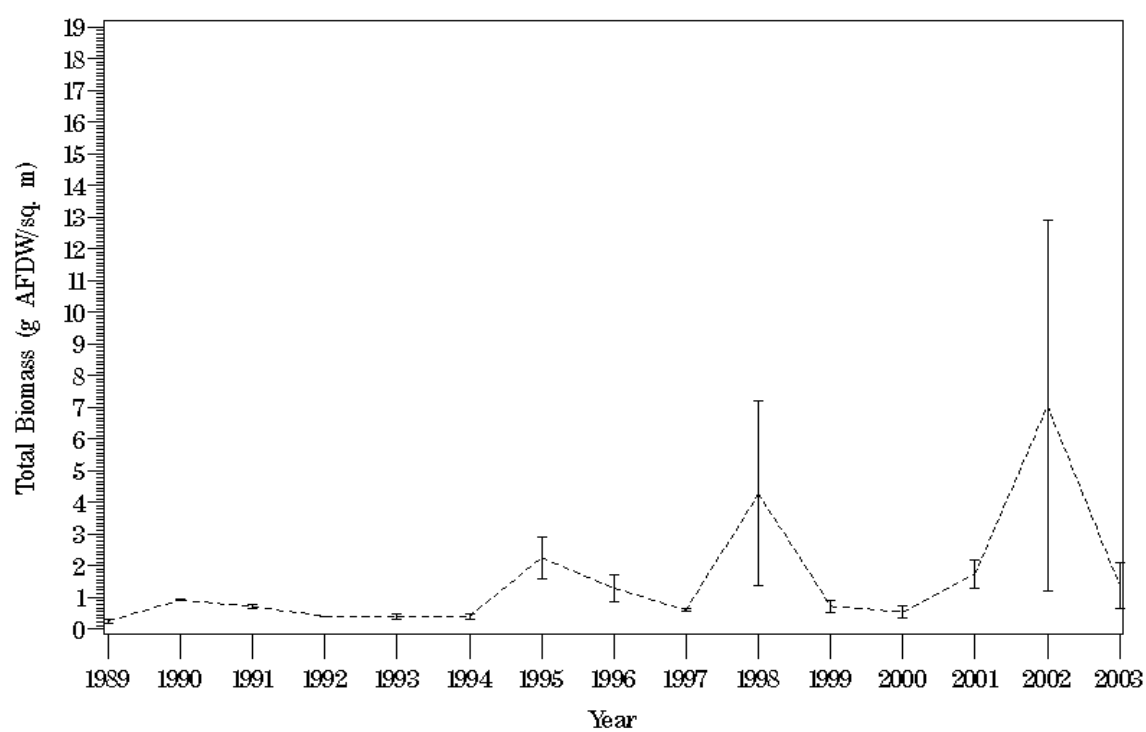


Figure M96. Plot of total benthic community biomass at station SBE5 for 1985 through 2004.

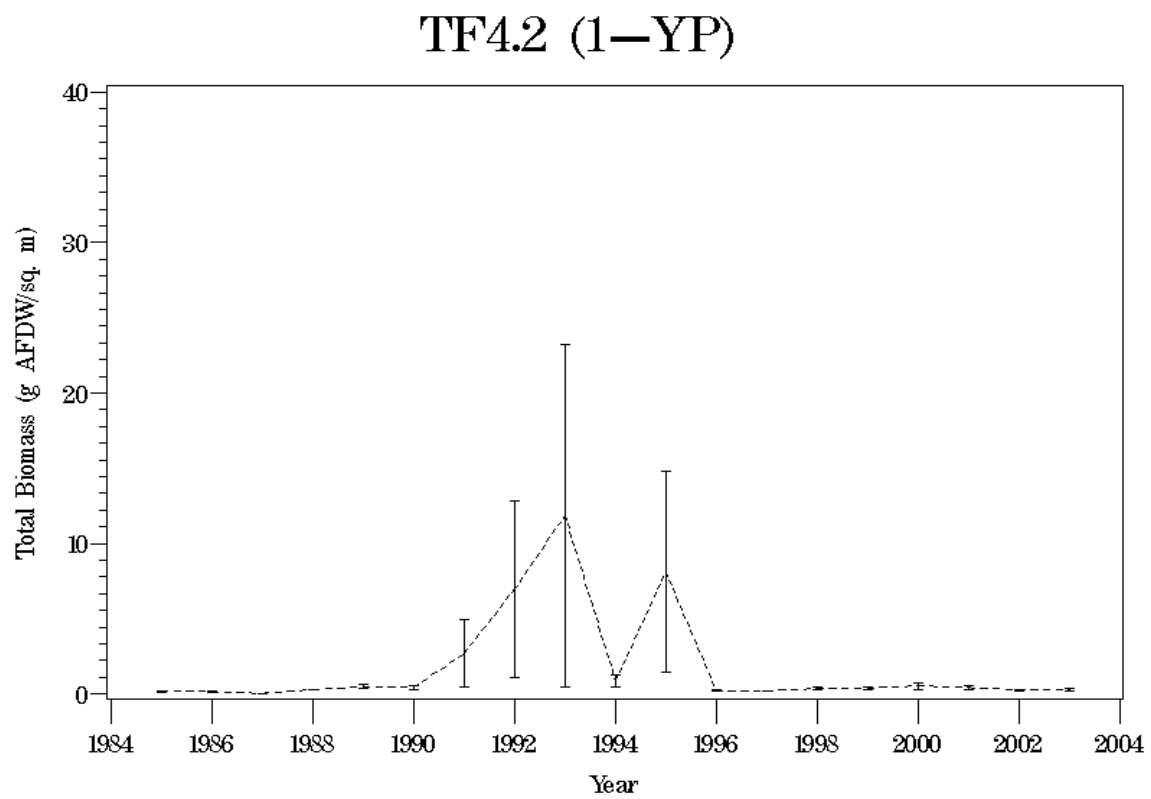


Figure M97. Plot of total benthic community biomass at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

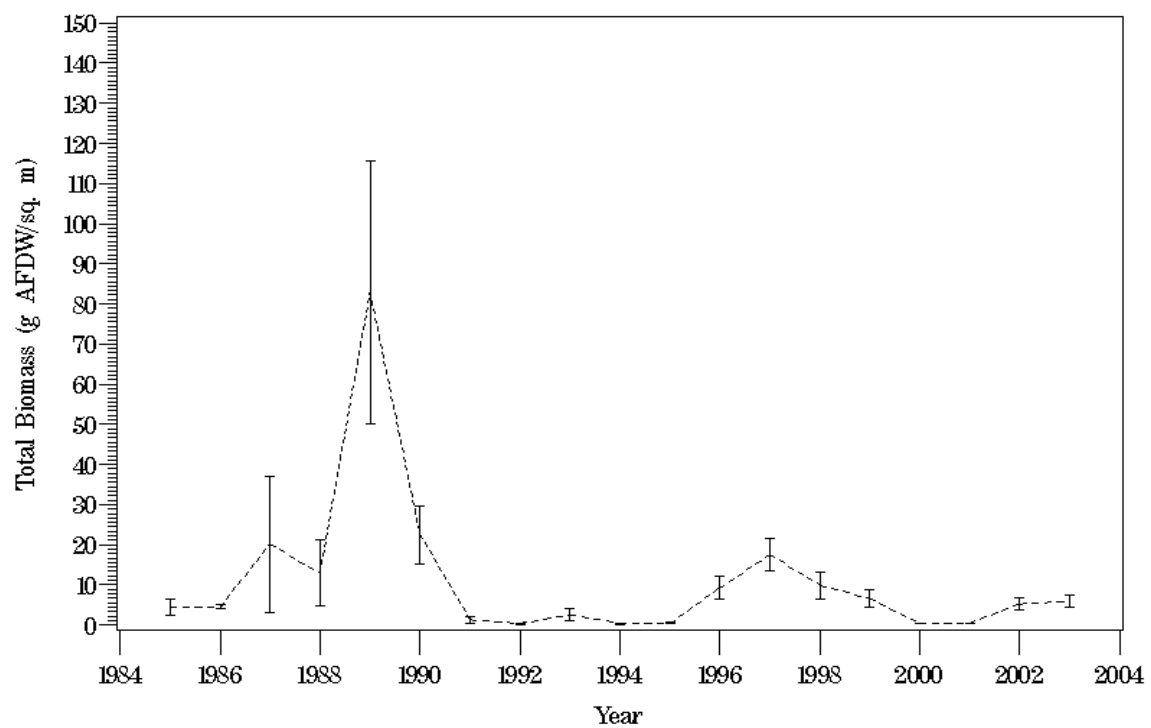


Figure M98. Plot of total benthic community biomass at station TF3.3 for 1985 through 2004.

## LE4.1 (3-YP)

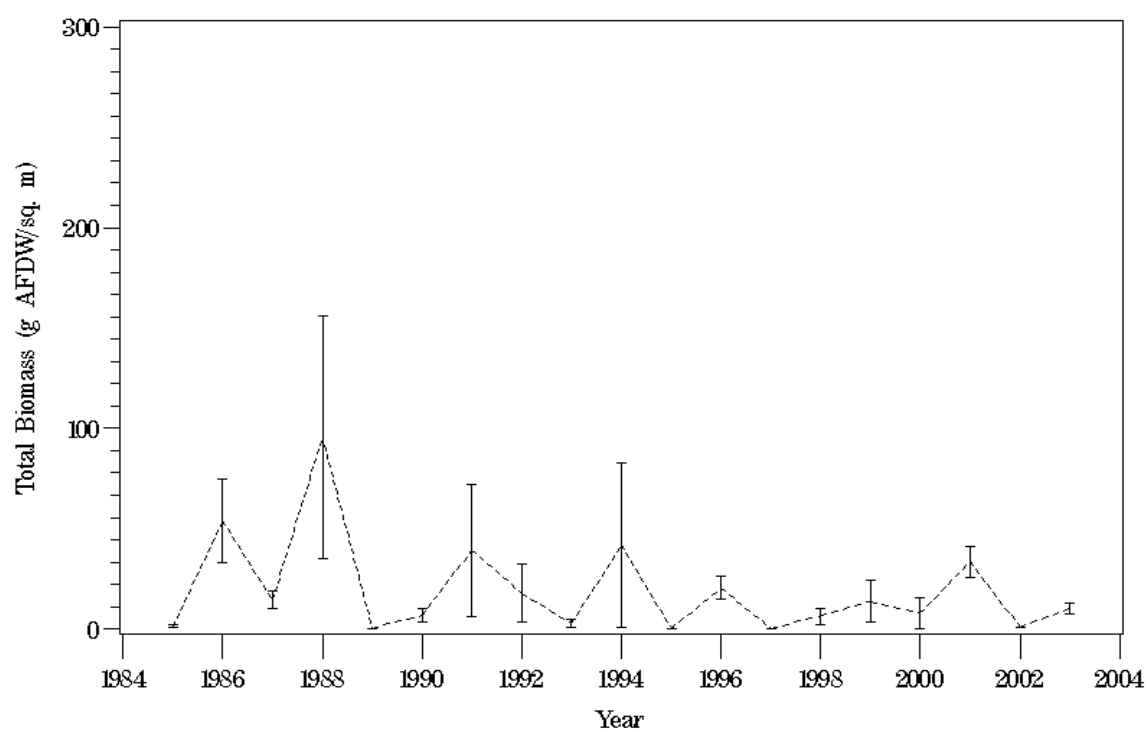


Figure M99. Plot of total benthic community biomass at station LE4.1 for 1985 through 2004.



## RET4.3 (2-YP)

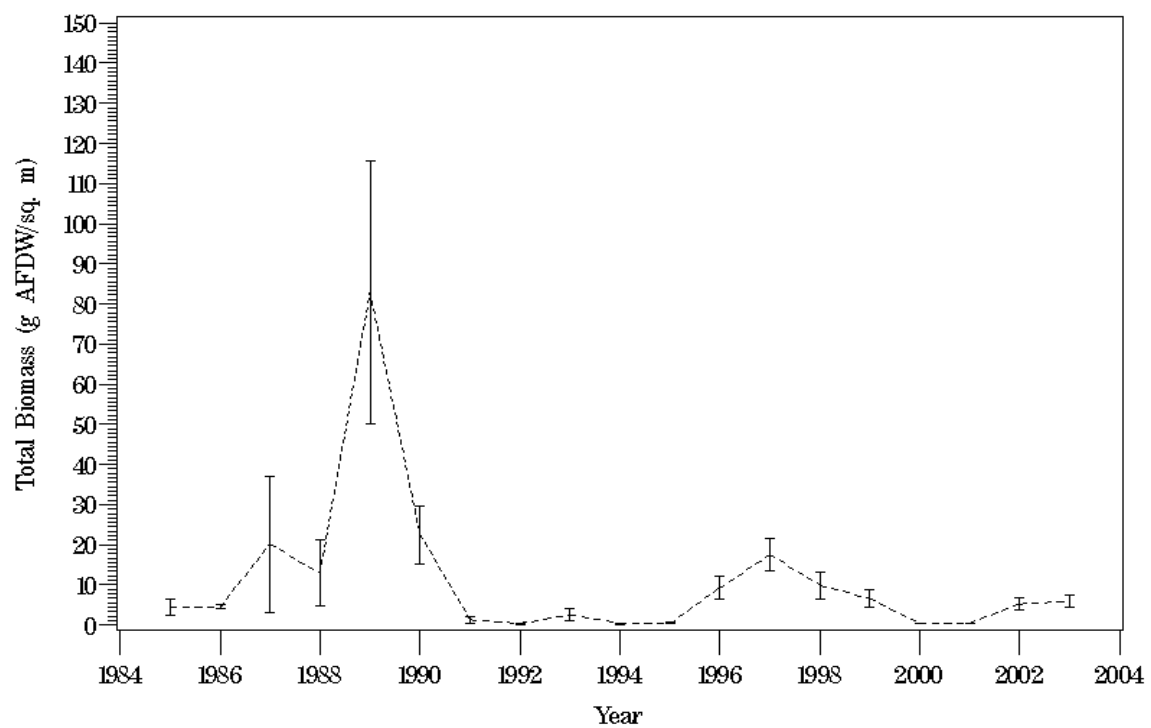


Figure M100. Plot of total benthic community biomass at station LE4.3 for 1985 through 2004.

## LE4.3B (5-YP)

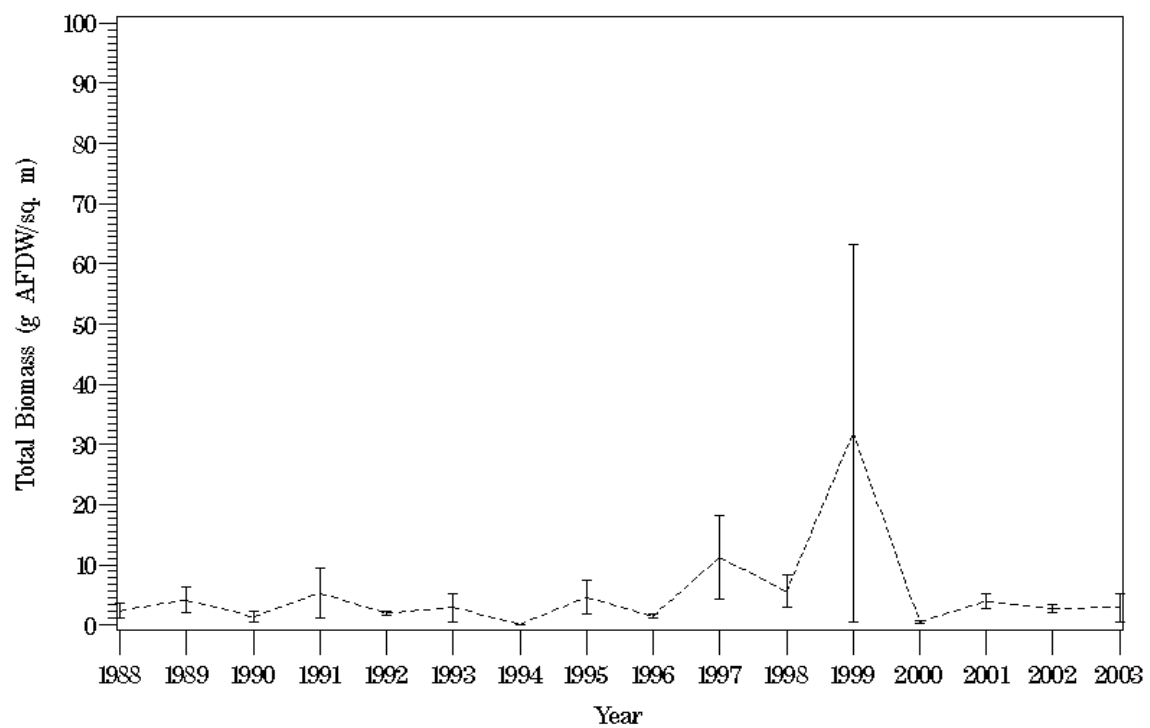


Figure M101. Plot of total benthic community biomass at station LE4.3B for 1985 through 2004.

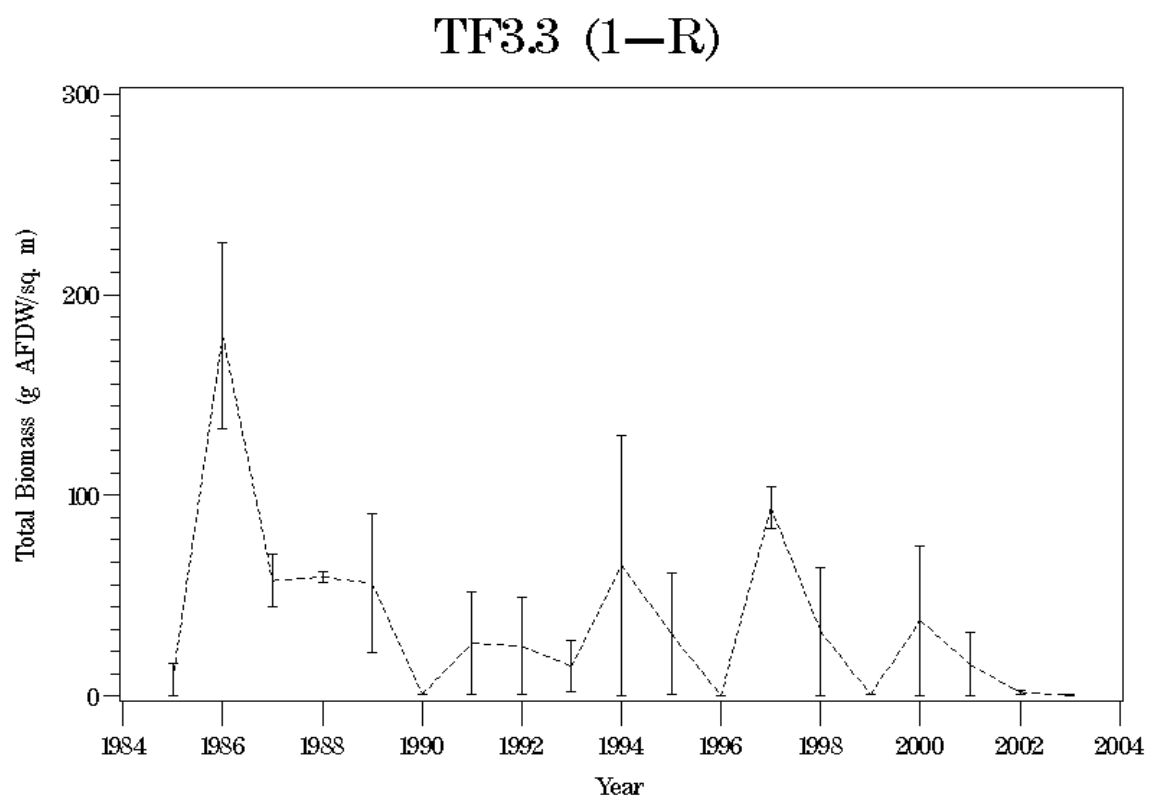


Figure M102. Plot of total benthic community biomass at station TF3.3 for 1985 through 2004.

## RET3.1 (2-R)

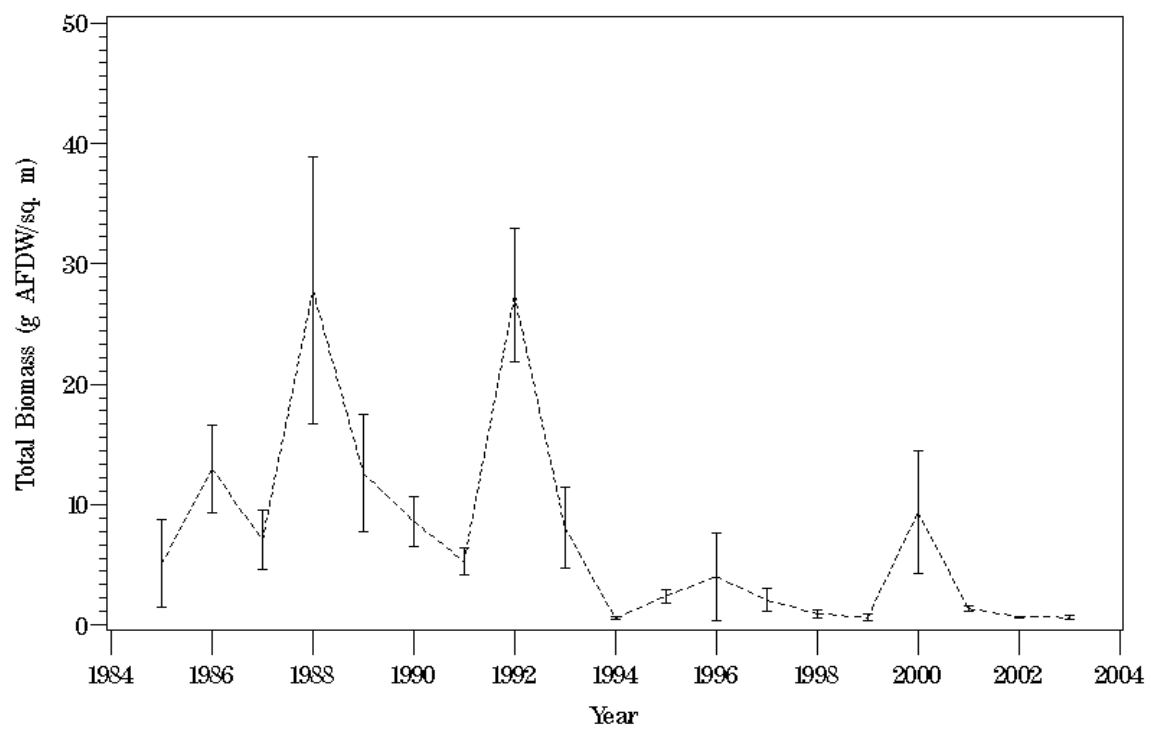


Figure M103. Plot of total benthic community biomass at station RET3.1 for 1985 through 2004.

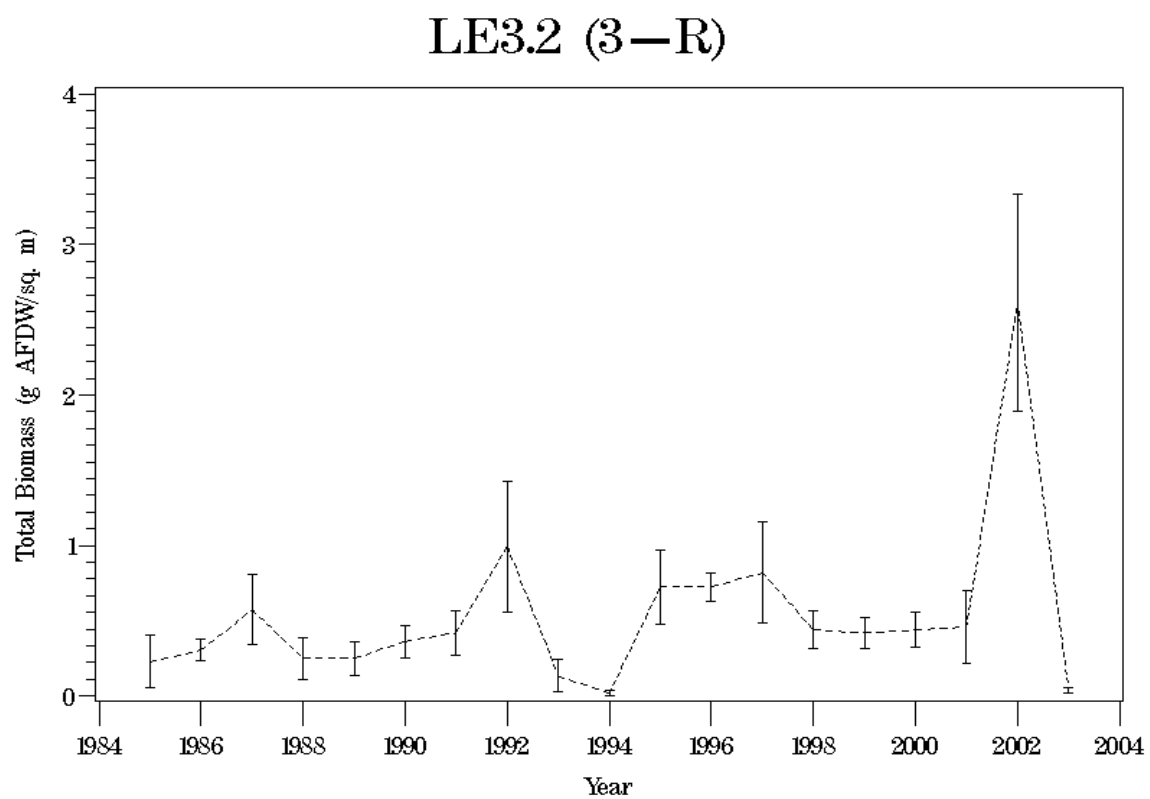


Figure M104. Plot of total benthic community biomass at station LE3.2 for 1985 through 2004.

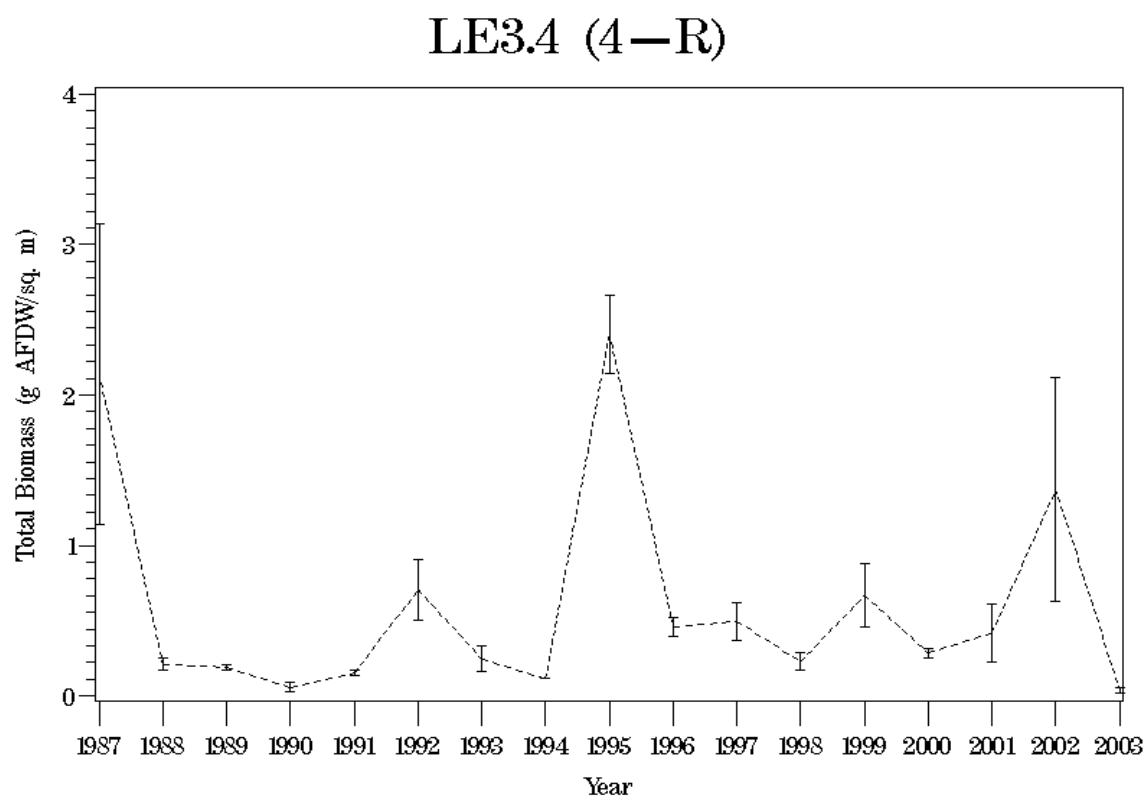


Figure M105. Plot of total benthic community biomass at station LE3.4 for 1985 through 2004.

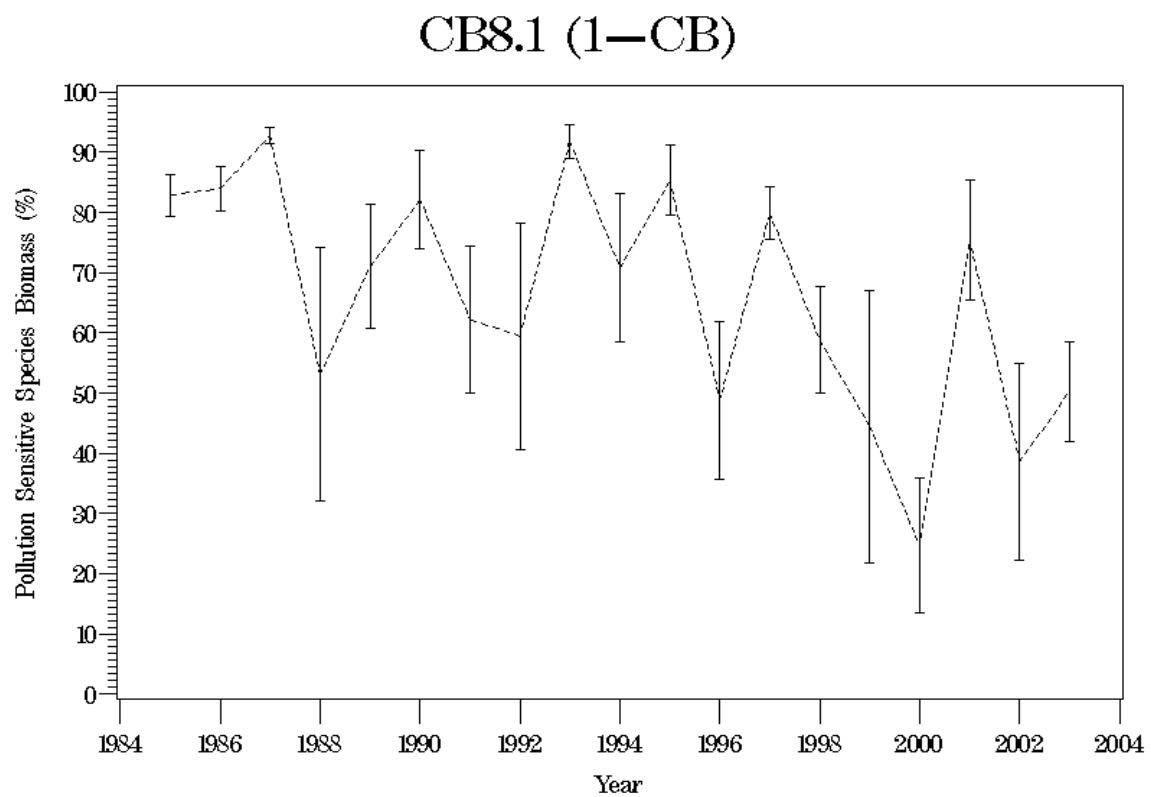


Figure M106. Plot of pollution sensitive species biomass at station CB8.1 for 1985 through 2004.

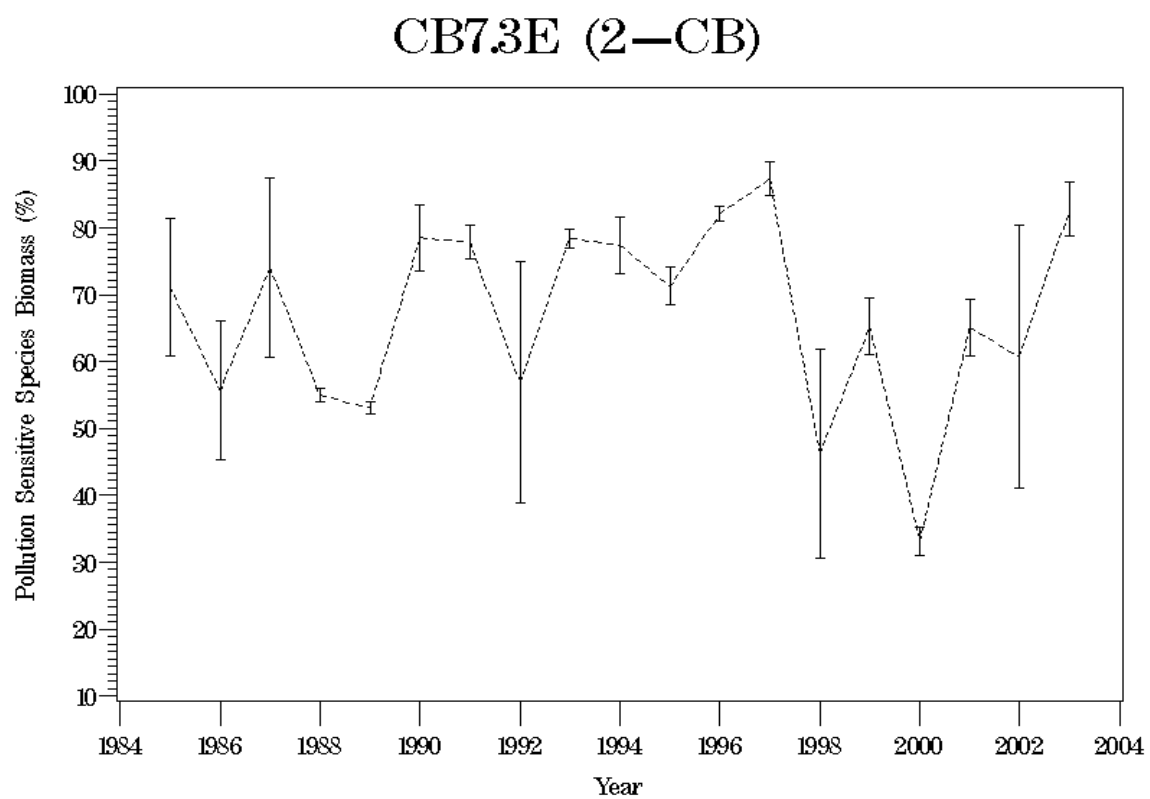


Figure M107. Plot of pollution sensitive species biomass at station CB7.3E for 1985 through 2004.



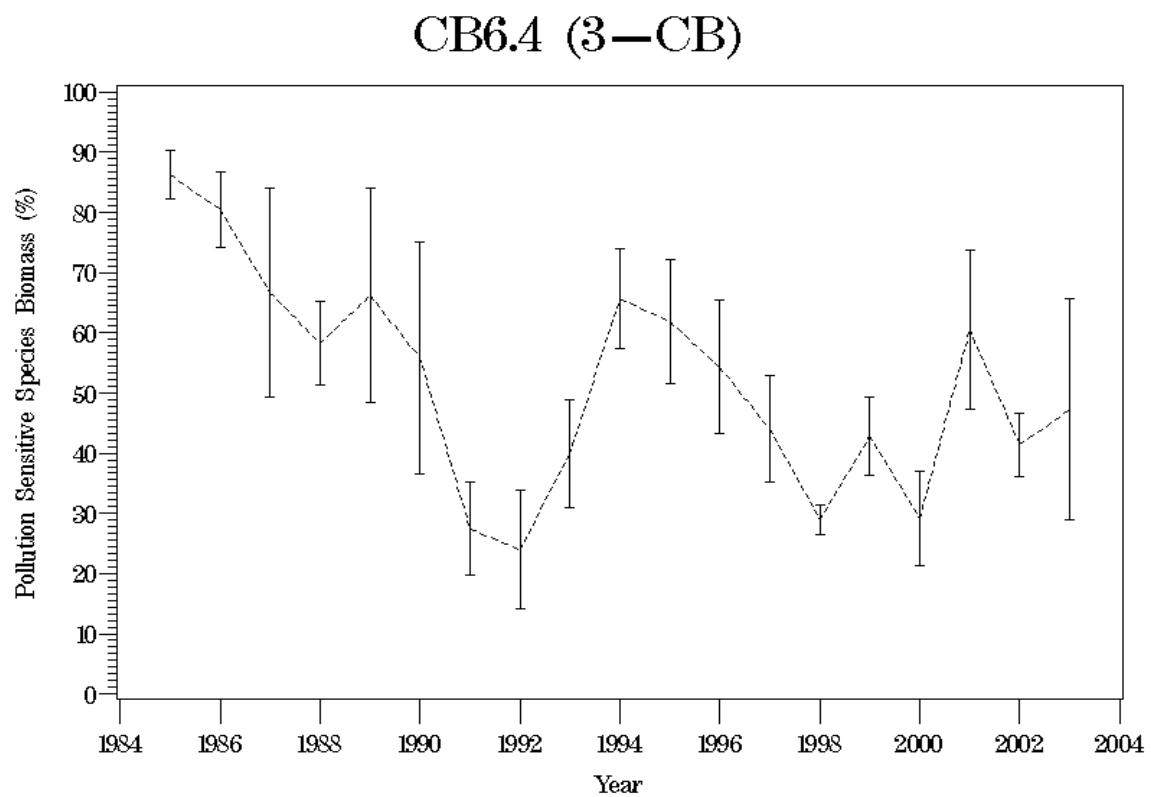


Figure M108. Plot of pollution sensitive species biomass at station CB6.4 for 1985 through 2004.

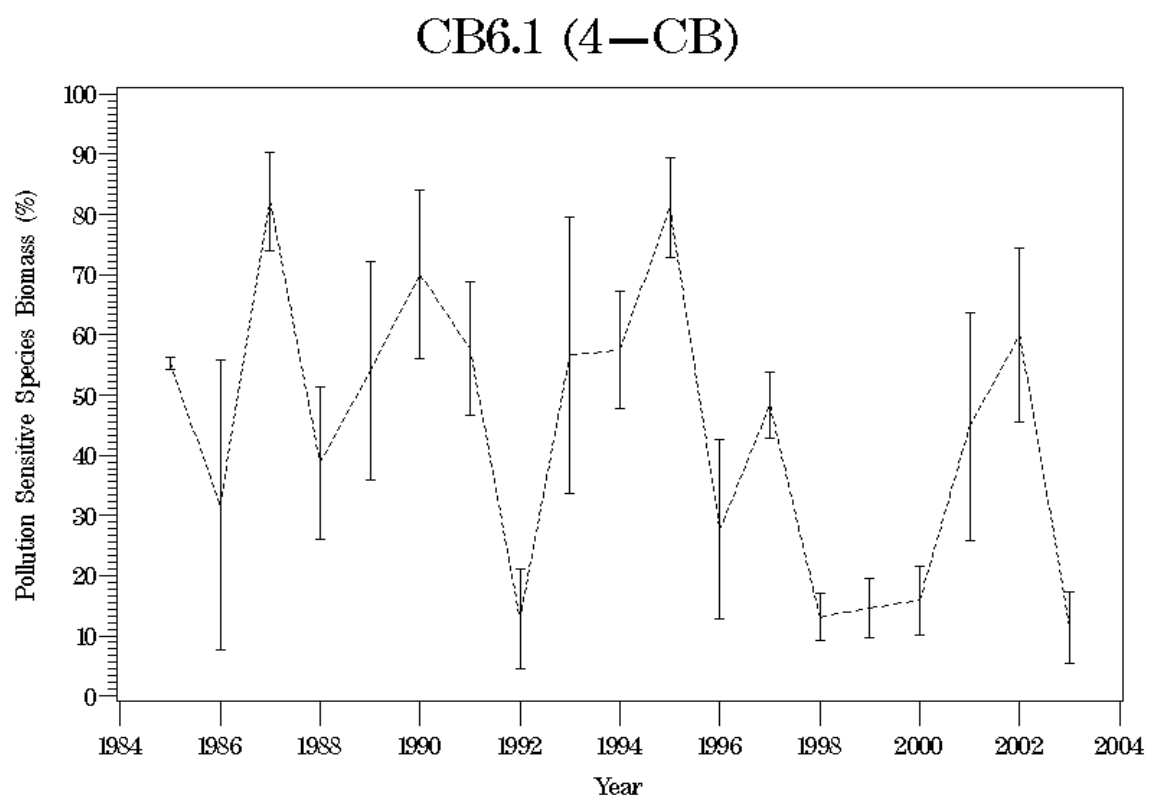


Figure M109. Plot of pollution sensitive species biomass at station CB6.1 for 1985 through 2004.

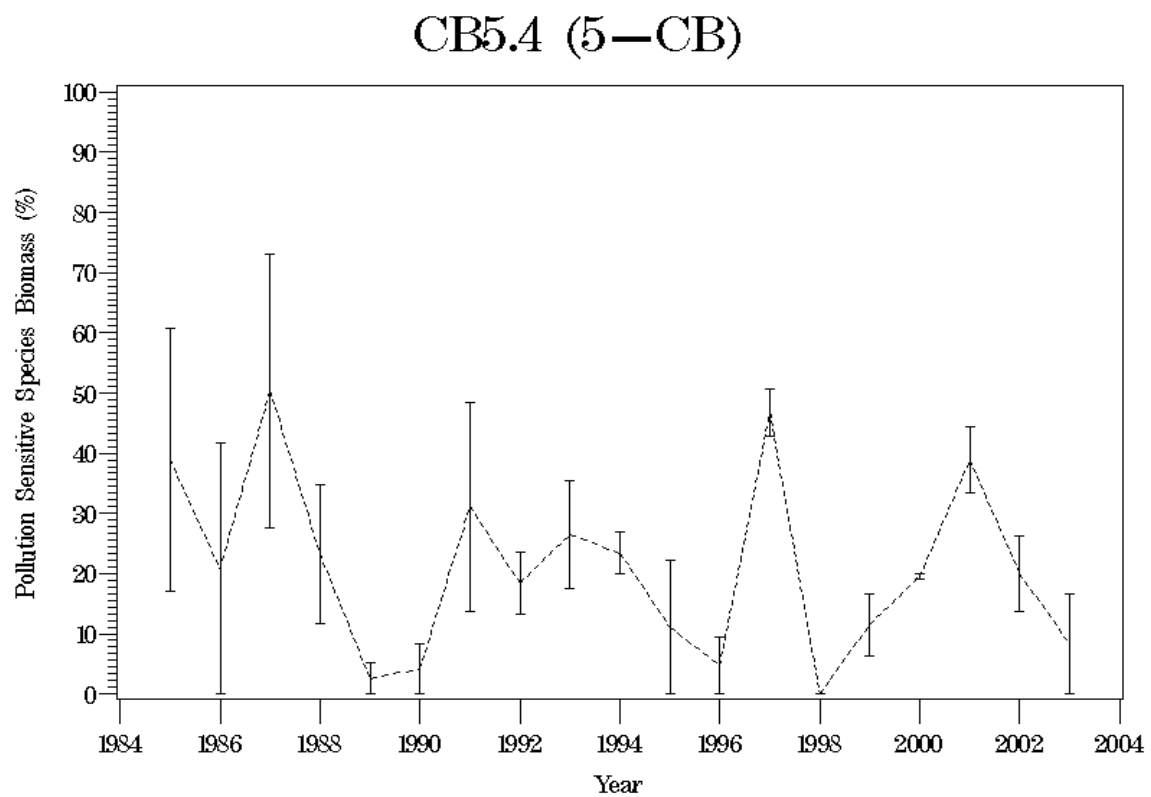


Figure M110. Plot of pollution sensitive species biomass at station CB5.4 for 1985 through 2004.

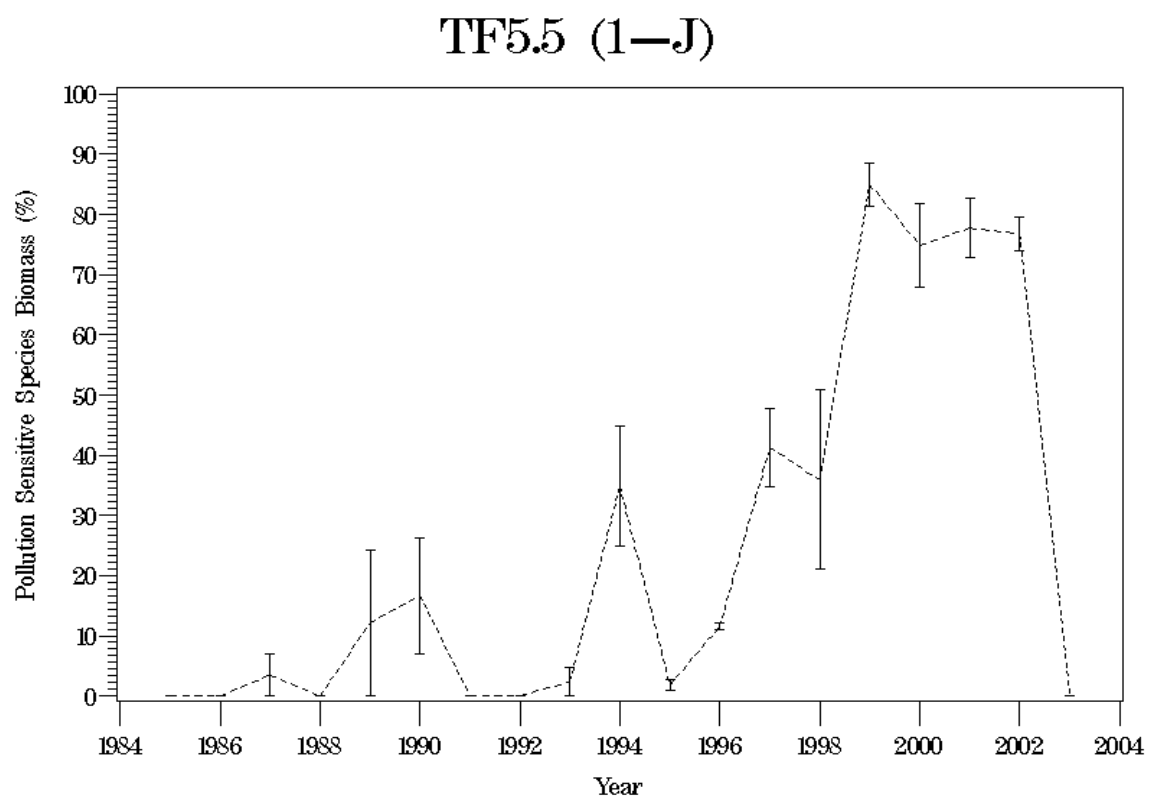


Figure M111. Plot of pollution sensitive species biomass at station TF5.5 for 1985 through 2004.

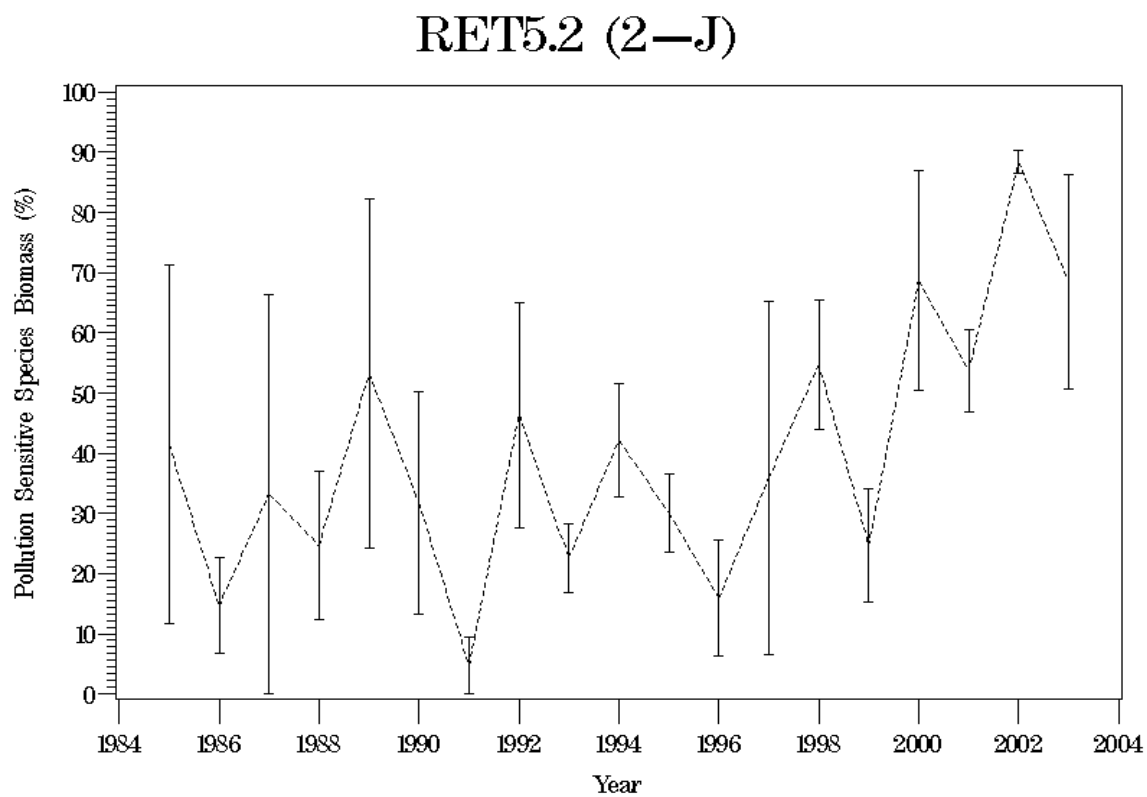


Figure M112. Plot of pollution sensitive species biomass at station RET5.2 for 1985 through 2004.

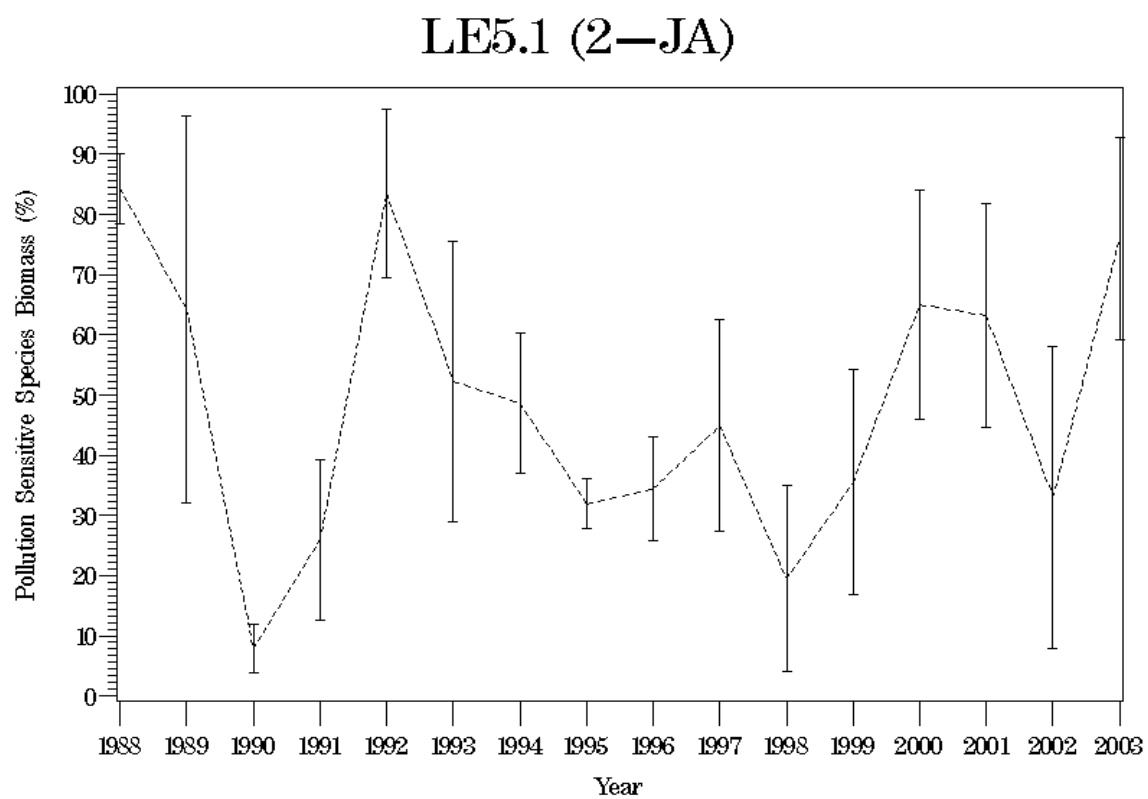


Figure M113. Plot of pollution sensitive species biomass at station LE5.1 for 1985 through 2004.

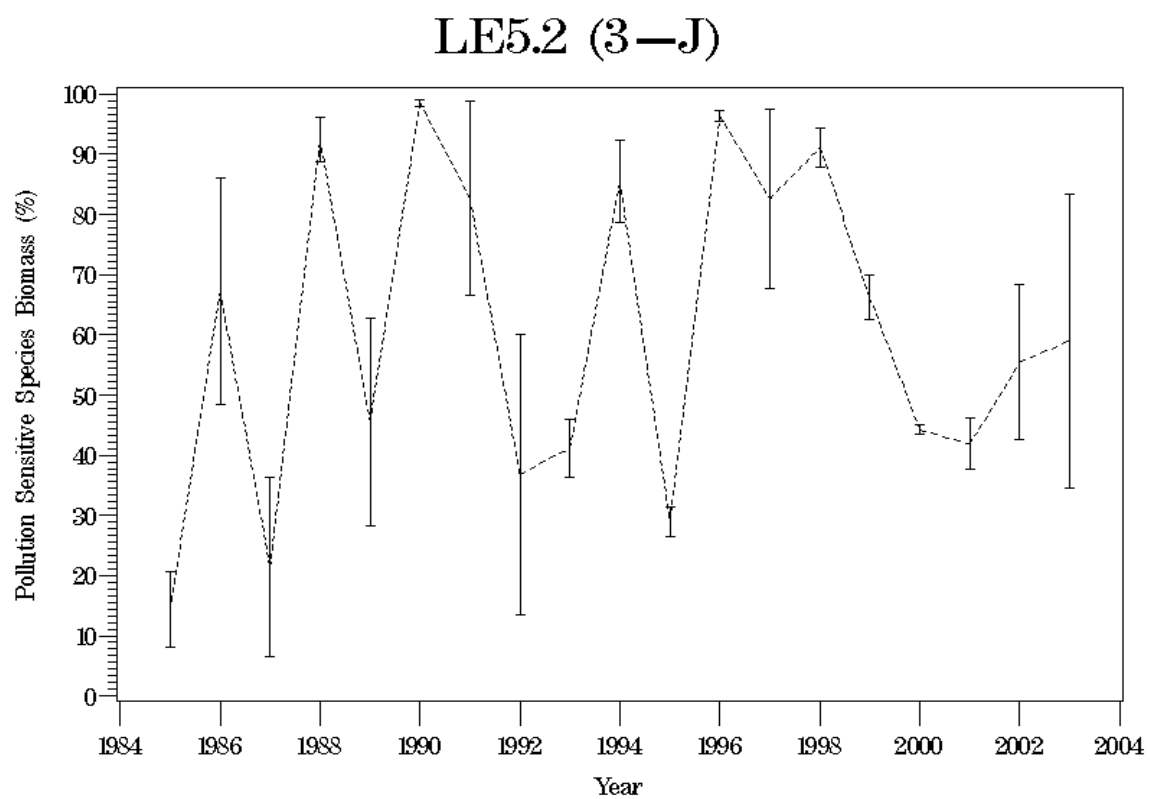


Figure M114. Plot of pollution sensitive species biomass at station LE5.2 for 1985 through 2004.

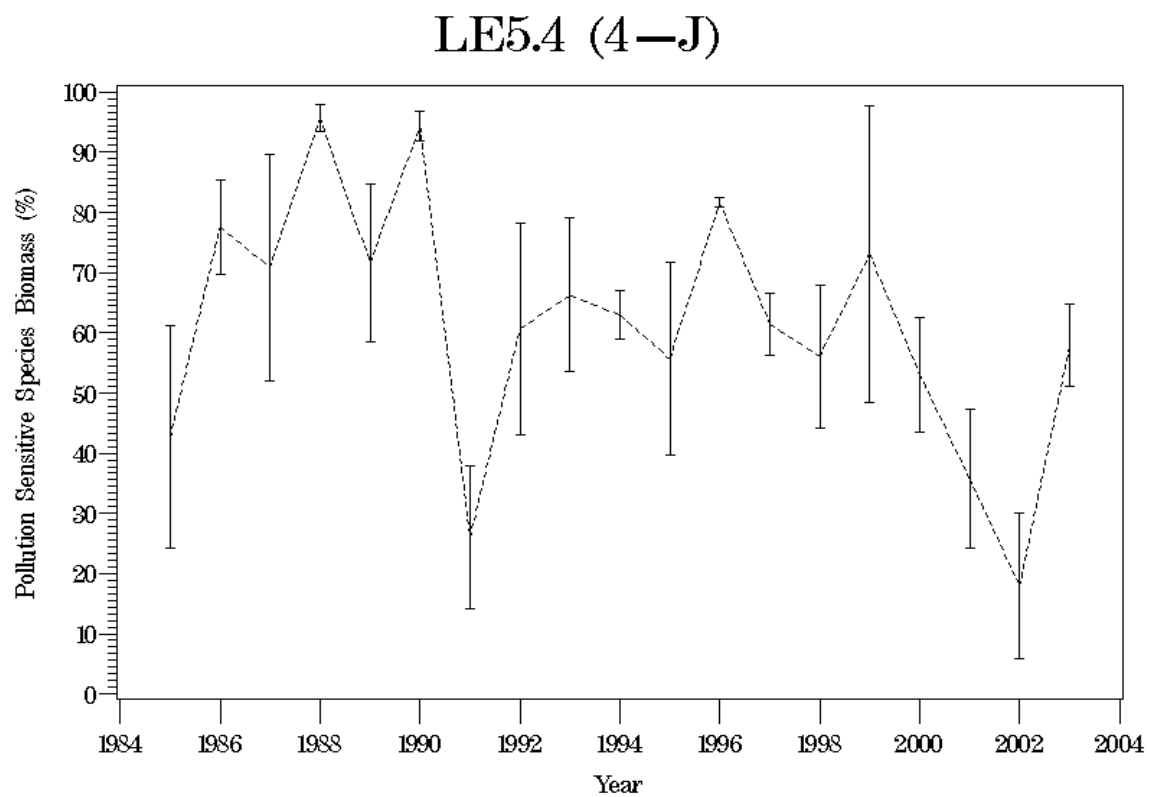


Figure M115. Plot of pollution sensitive species biomass at station LE5.4 for 1985 through 2004.



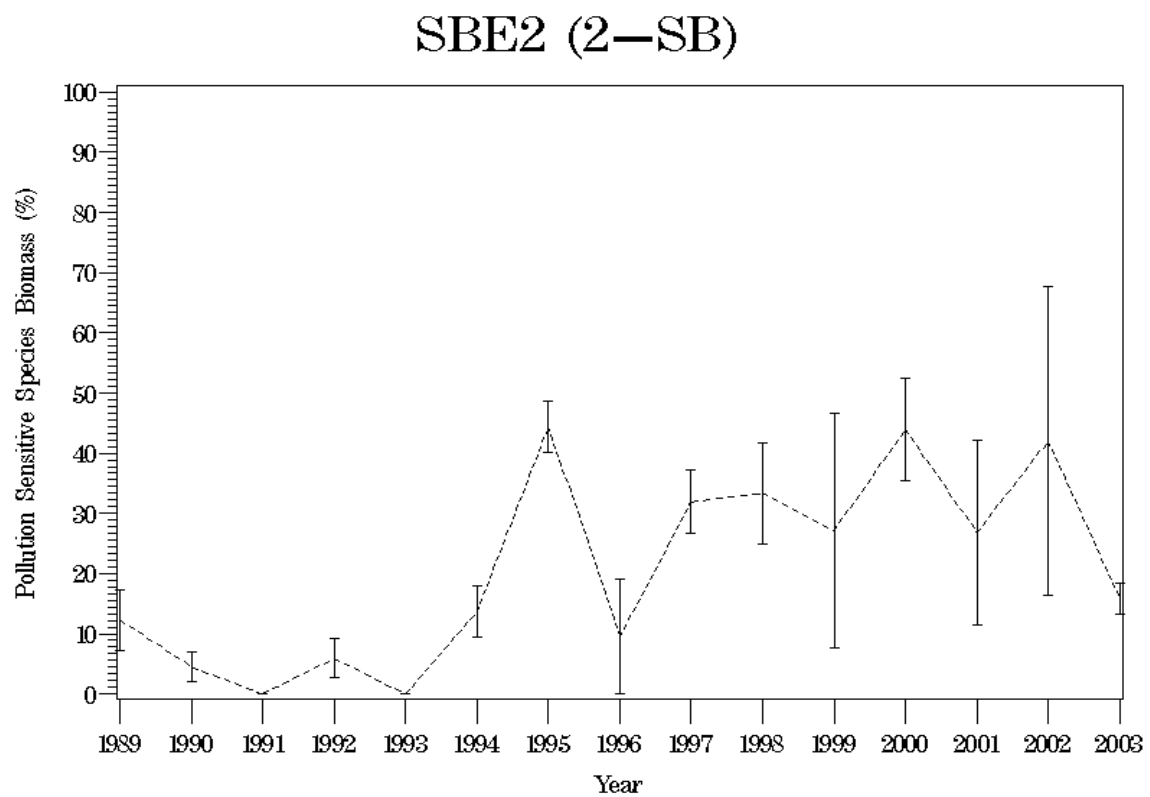


Figure M116. Plot of pollution sensitive species biomass at station SBE2 for 1985 through 2004.

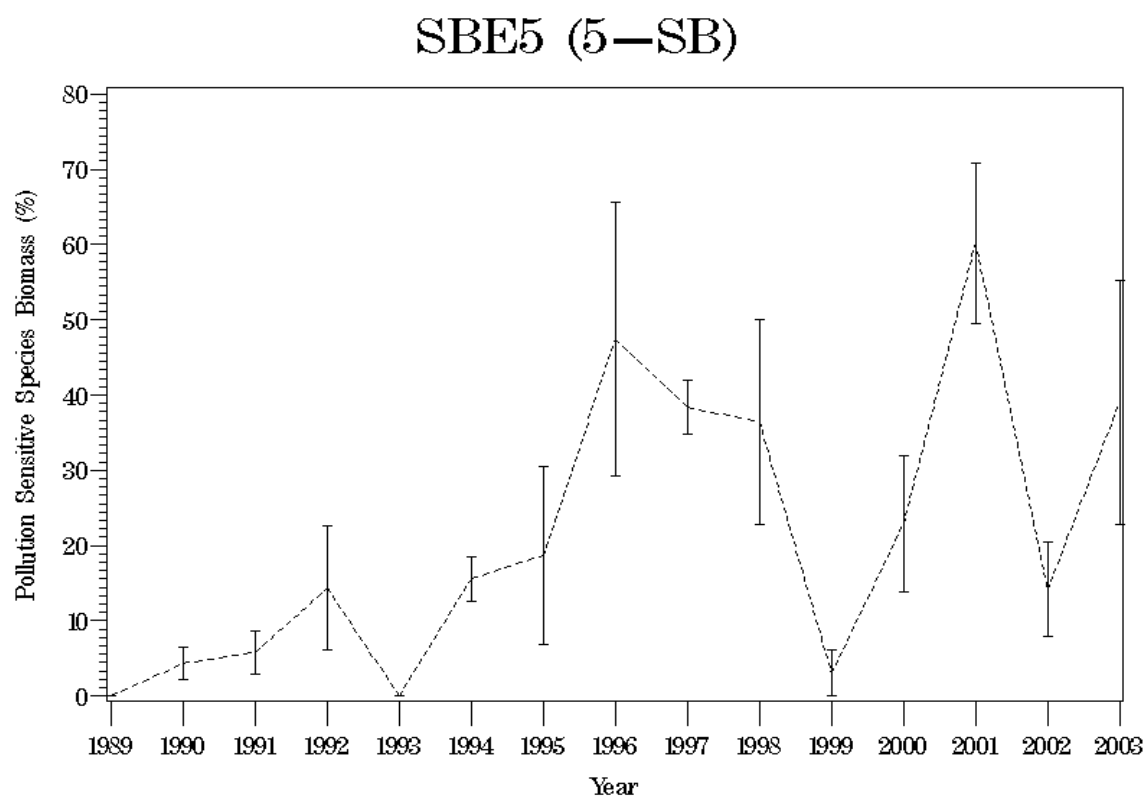


Figure M117. Plot of pollution sensitive species biomass at station SBE5 for 1985 through 2004.

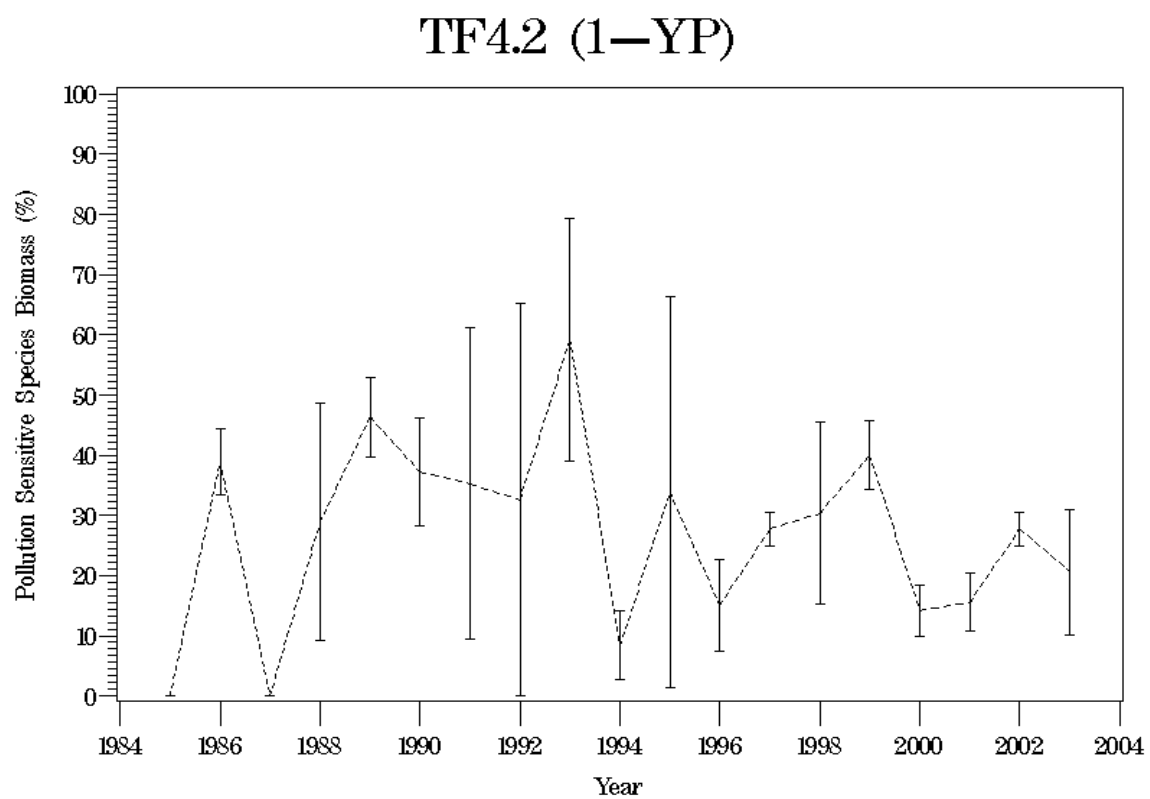


Figure M118. Plot of pollution sensitive species biomass at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

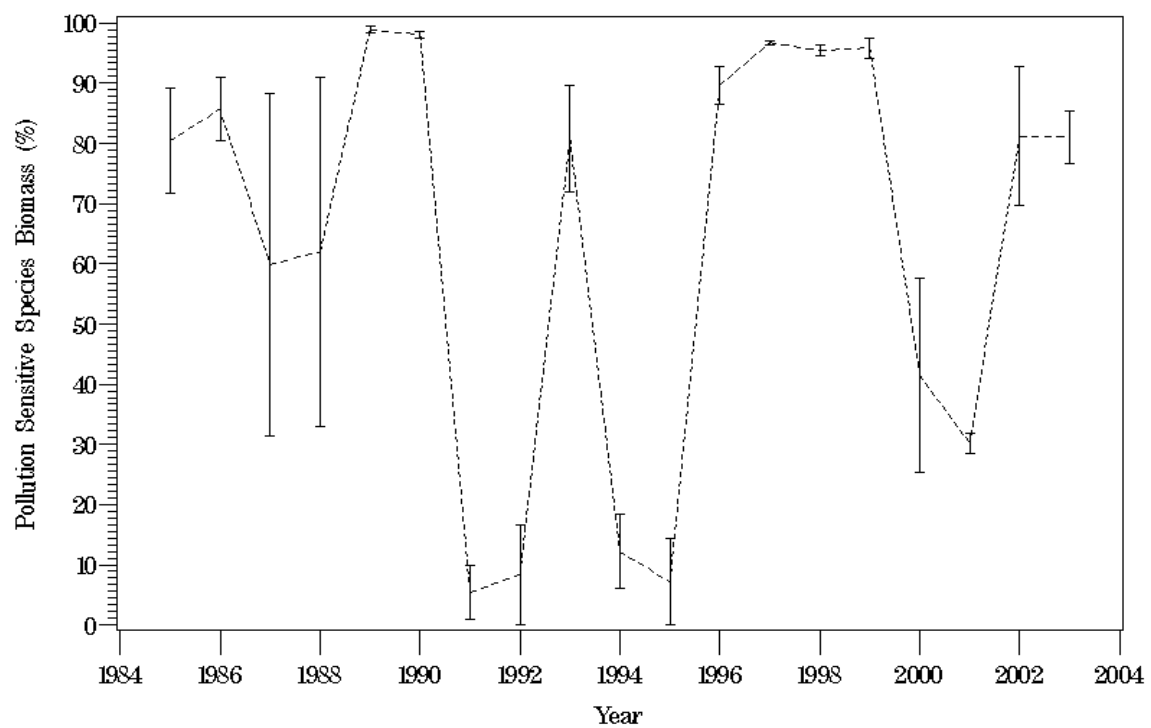


Figure M119. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2004.

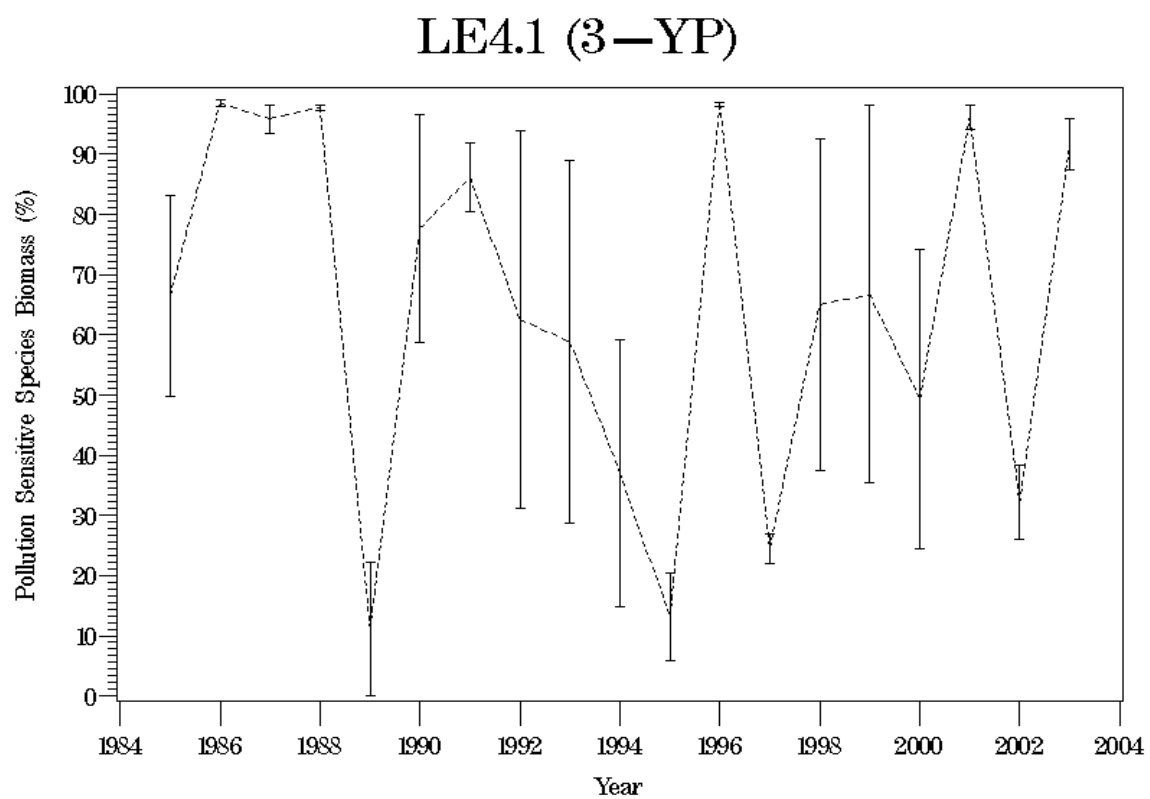


Figure M120. Plot of pollution sensitive species biomass at station LE4.1 for 1985 through 2004.

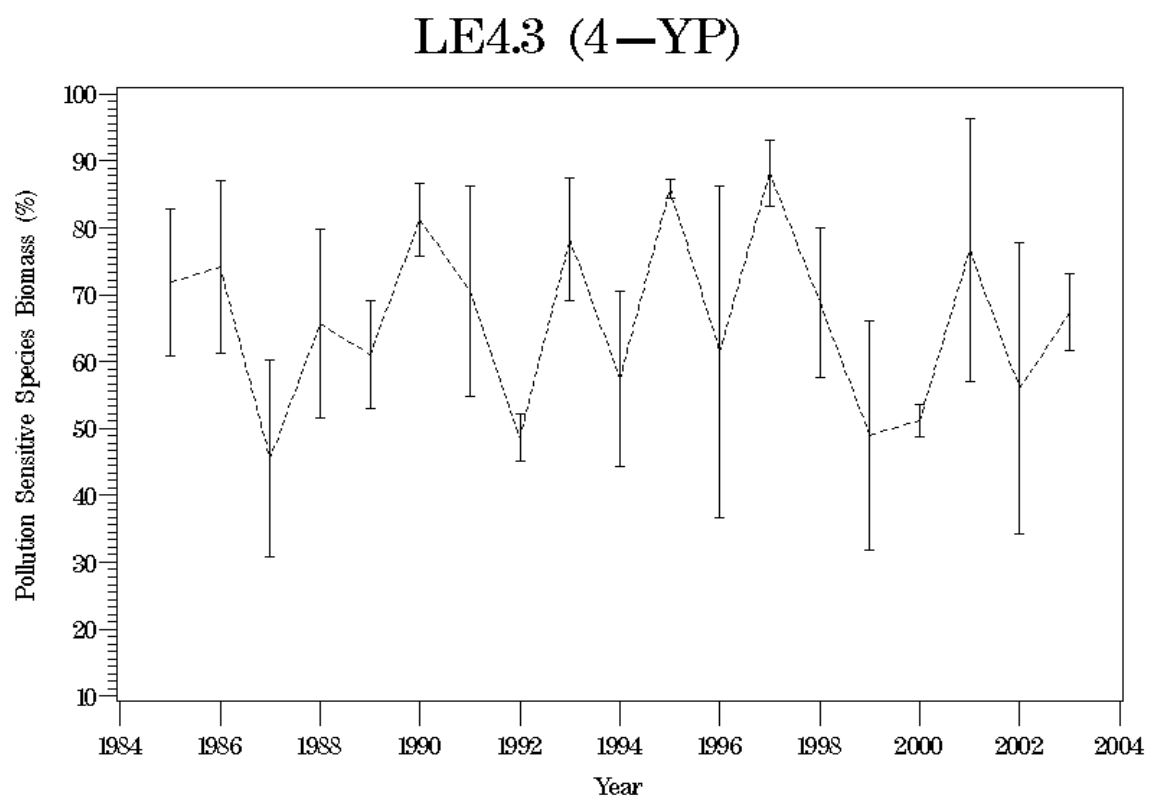


Figure M121. Plot of pollution sensitive species biomass at station LE4.3 for 1985 through 2004.

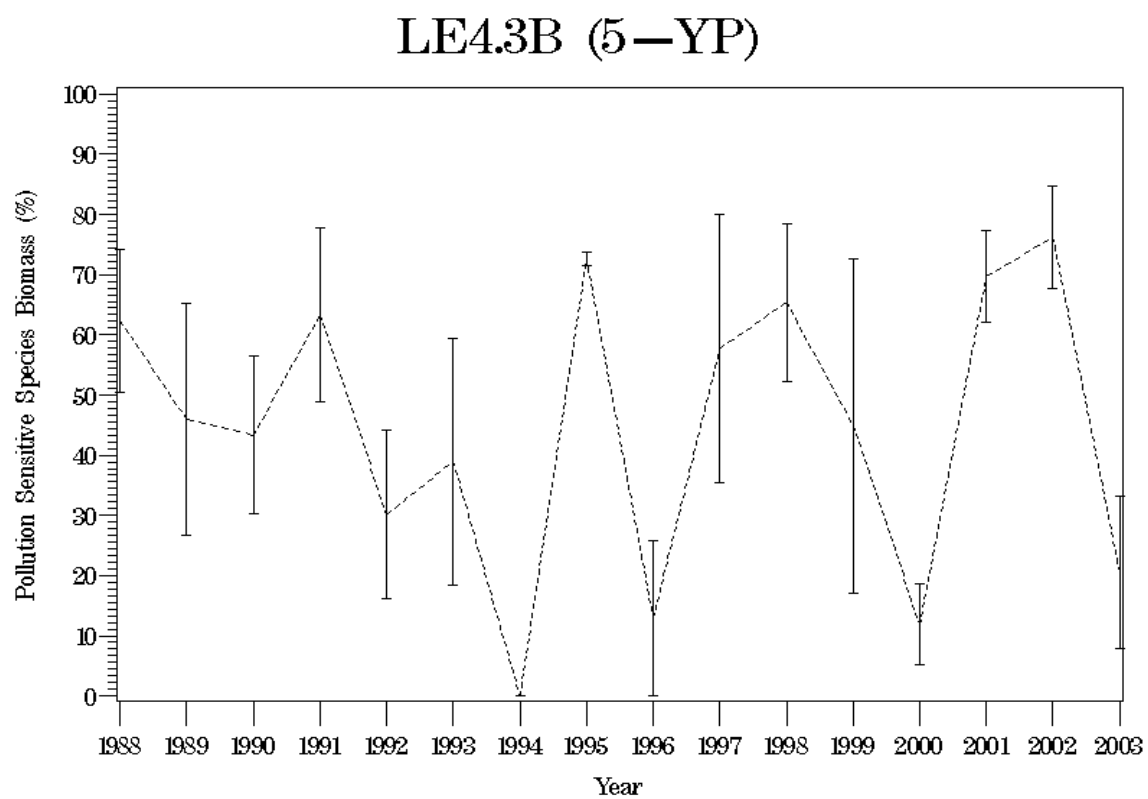


Figure M122. Plot of pollution sensitive species biomass at station LE4.3B for 1985 through 2004.

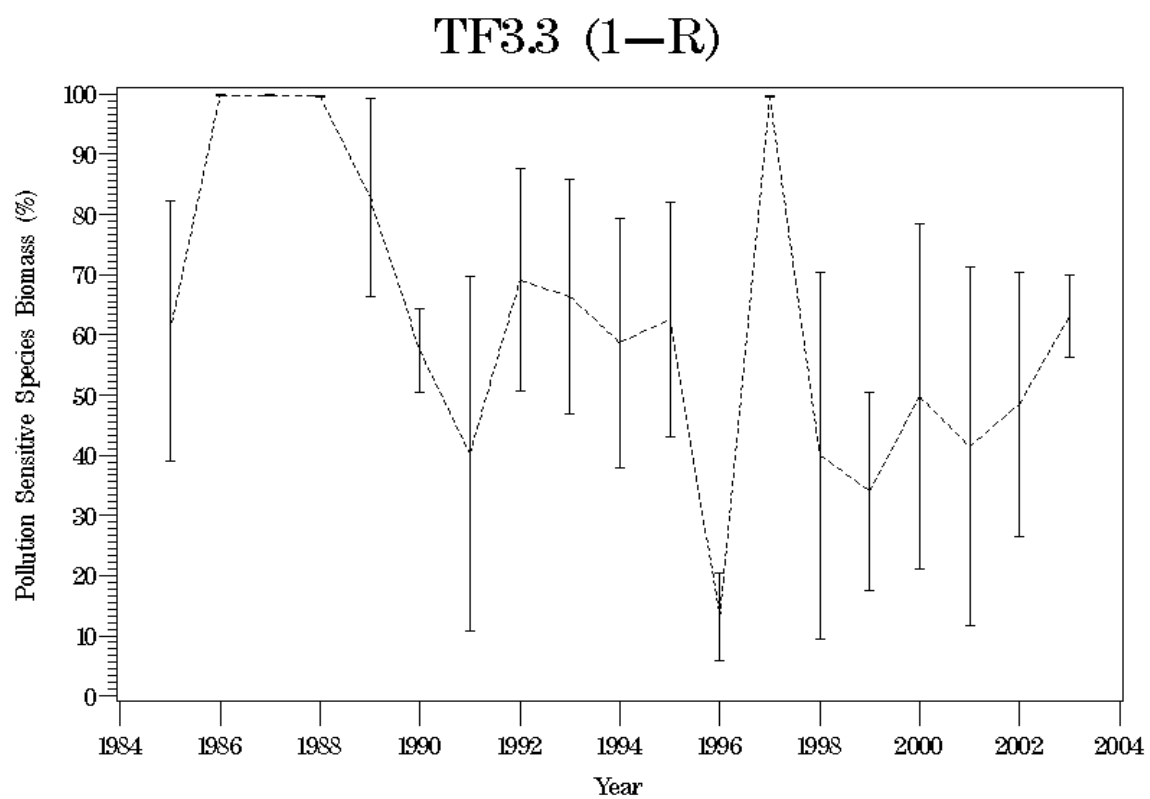


Figure M123. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2004.



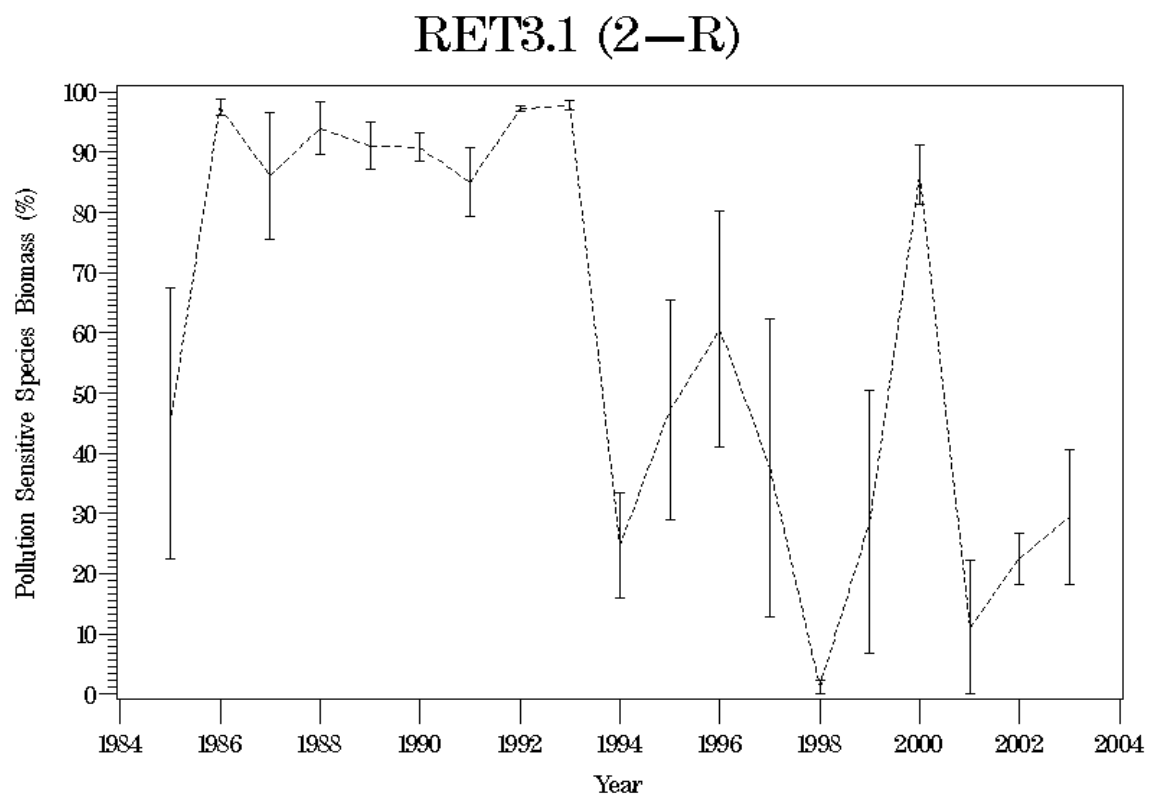


Figure M124. Plot of pollution sensitive species biomass at station RET3.1 for 1985 through 2004.

## LE3.2 (3-R)

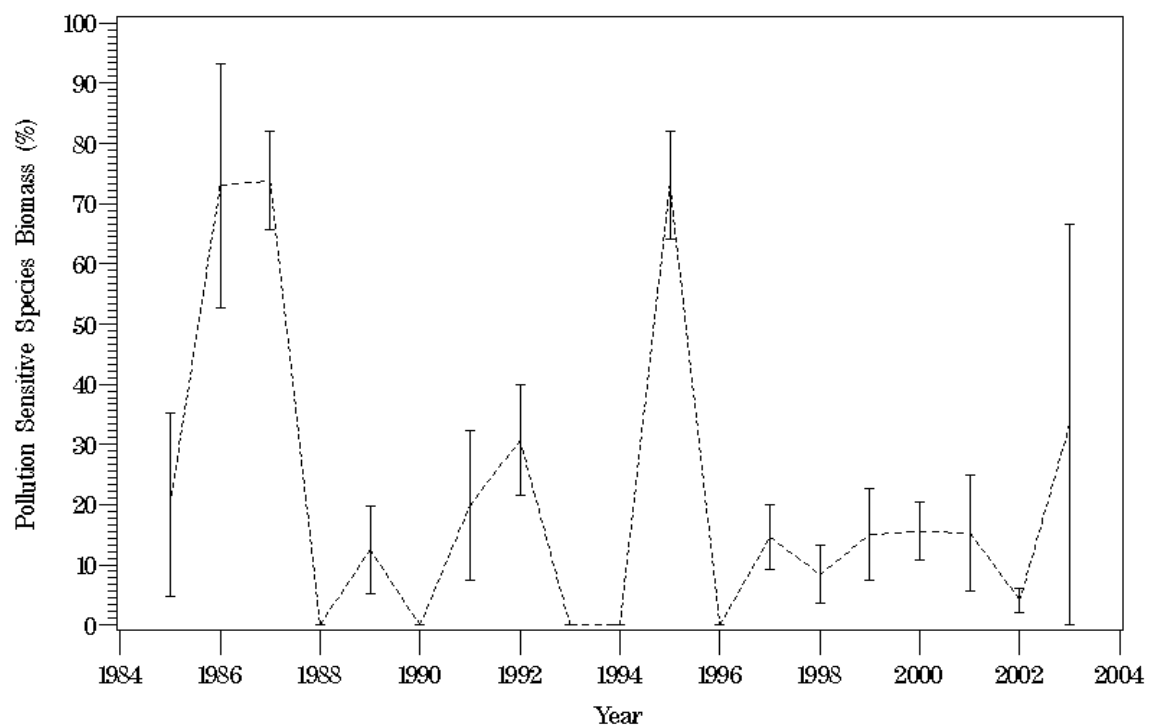


Figure M125. Plot of pollution sensitive species biomass at station LE3.2 for 1985 through 2004.

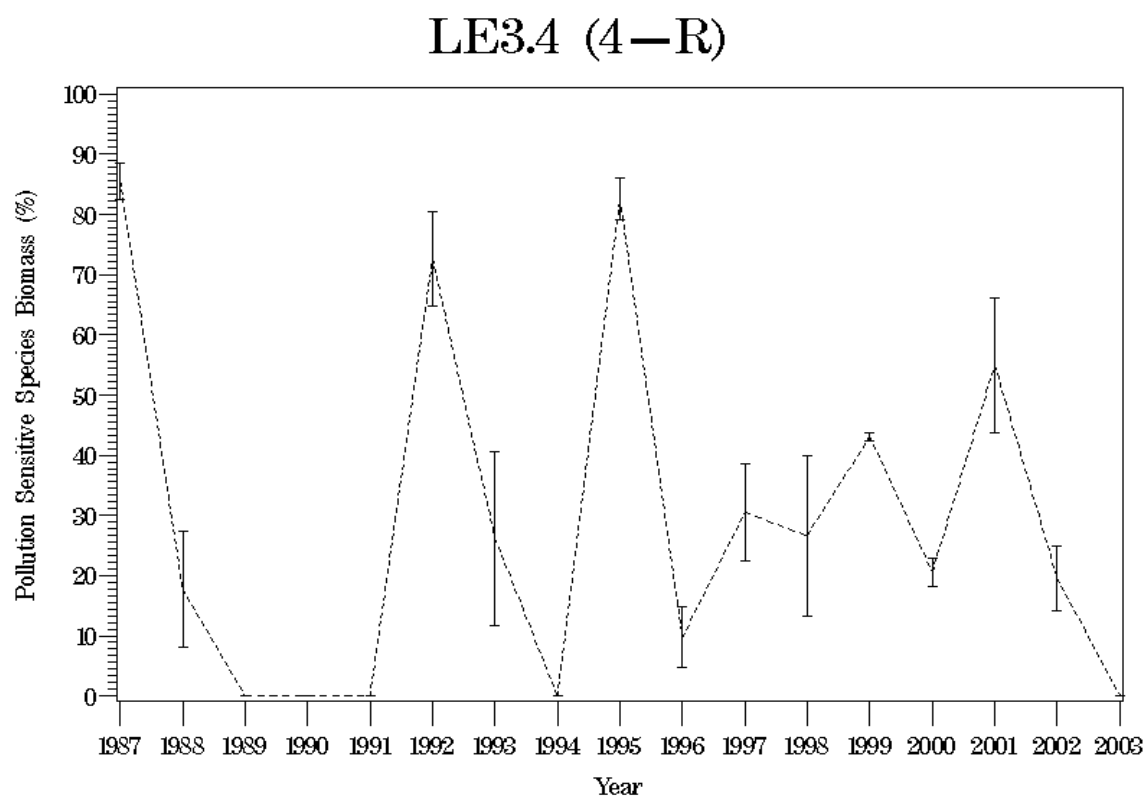


Figure M126. Plot of pollution sensitive species biomass at station LE3.4 for 1985 through 2004.

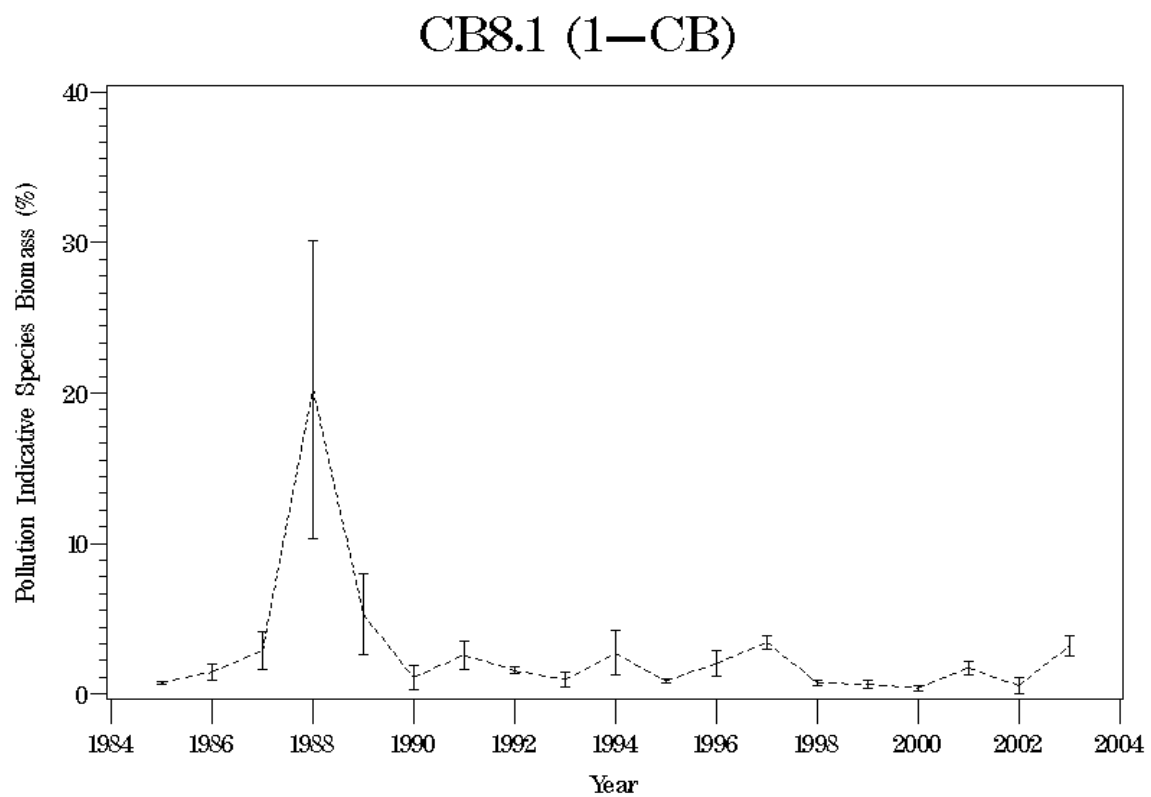


Figure M127. Plot of pollution indicative species biomass at station CB8.1 for 1985 through 2004.

## CB7.3E (2—CB)

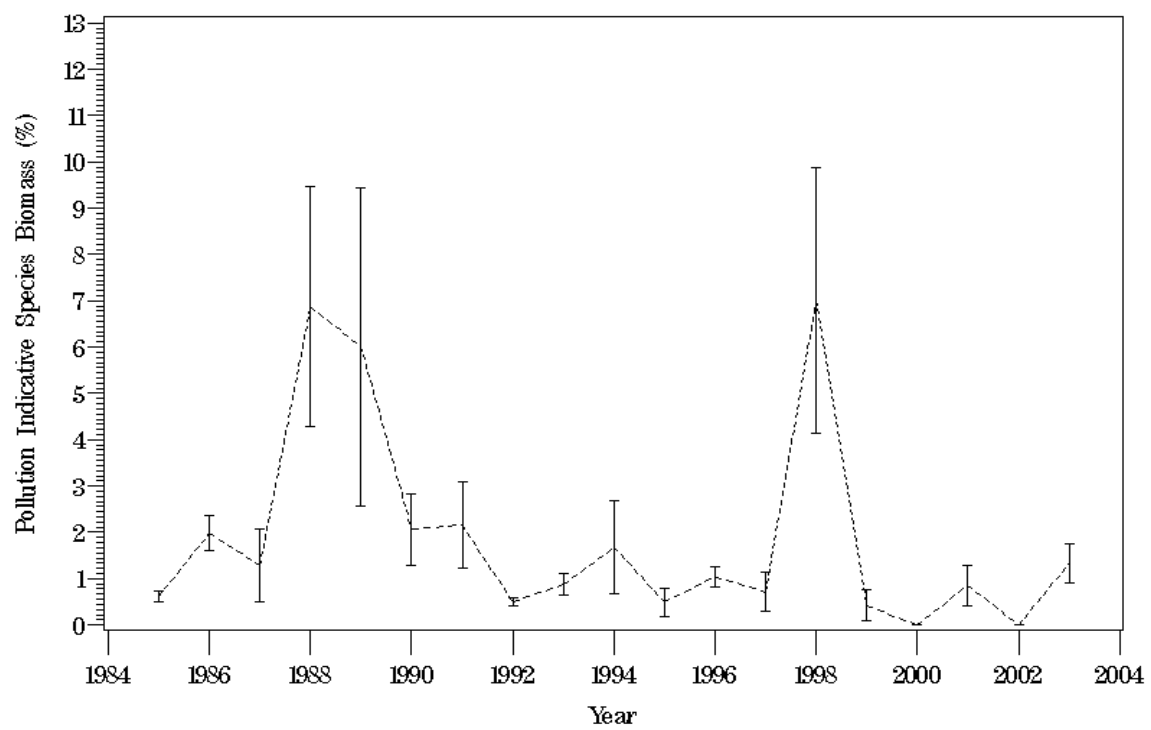


Figure M128. Plot of pollution indicative species biomass at station CB7.3E for 1985 through 2004.

## CB6.4 (3—CB)

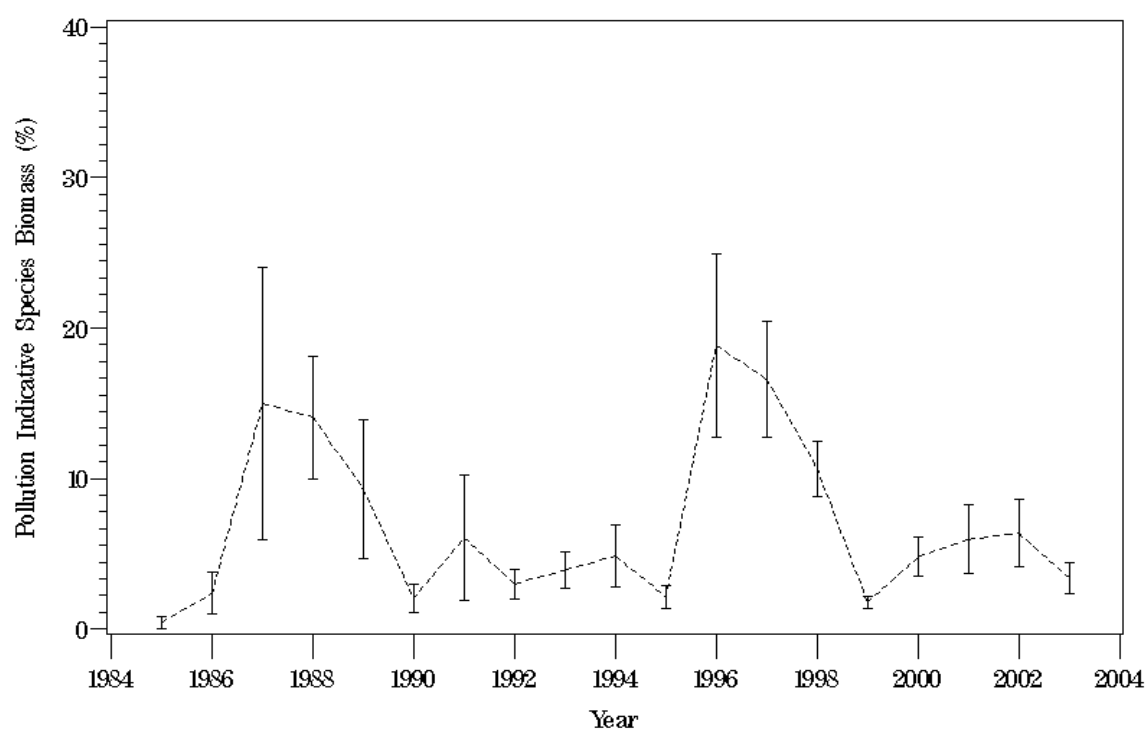


Figure M129. Plot of pollution indicative species biomass at station CB6.4 for 1985 through 2004.

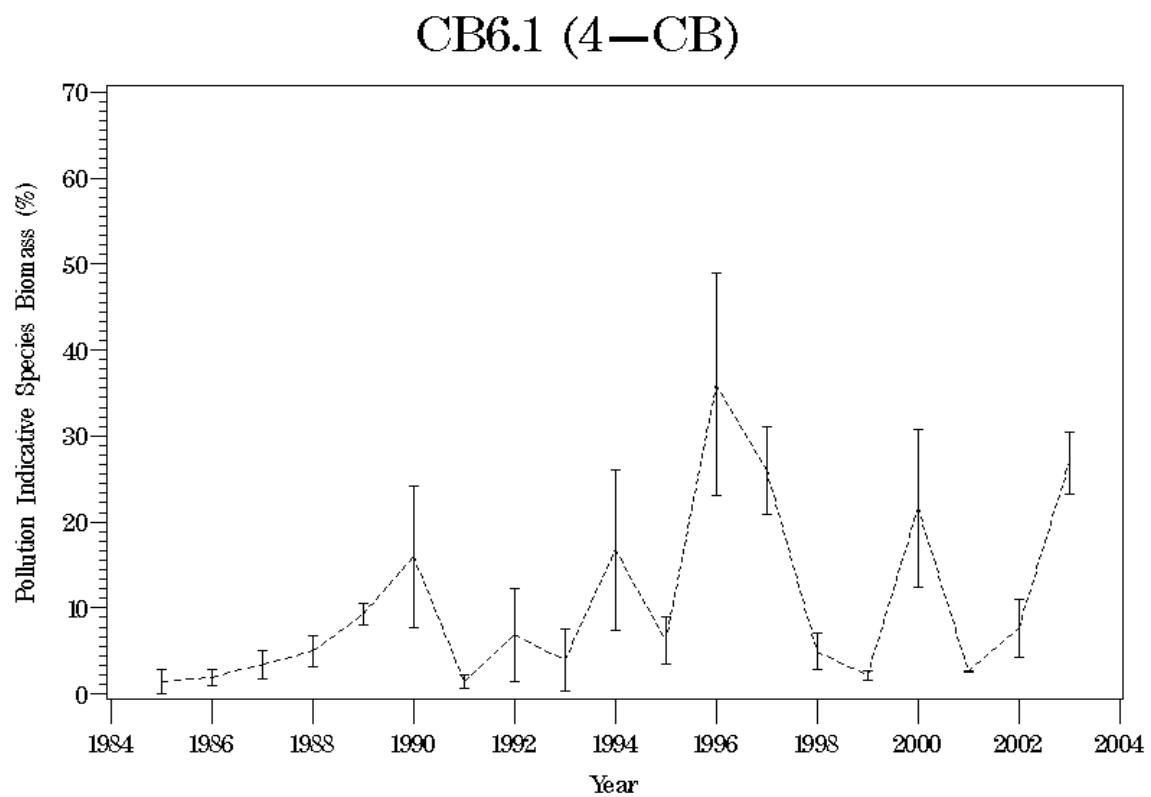


Figure M130. Plot of pollution indicative species biomass at station CB6.1 for 1985 through 2004.

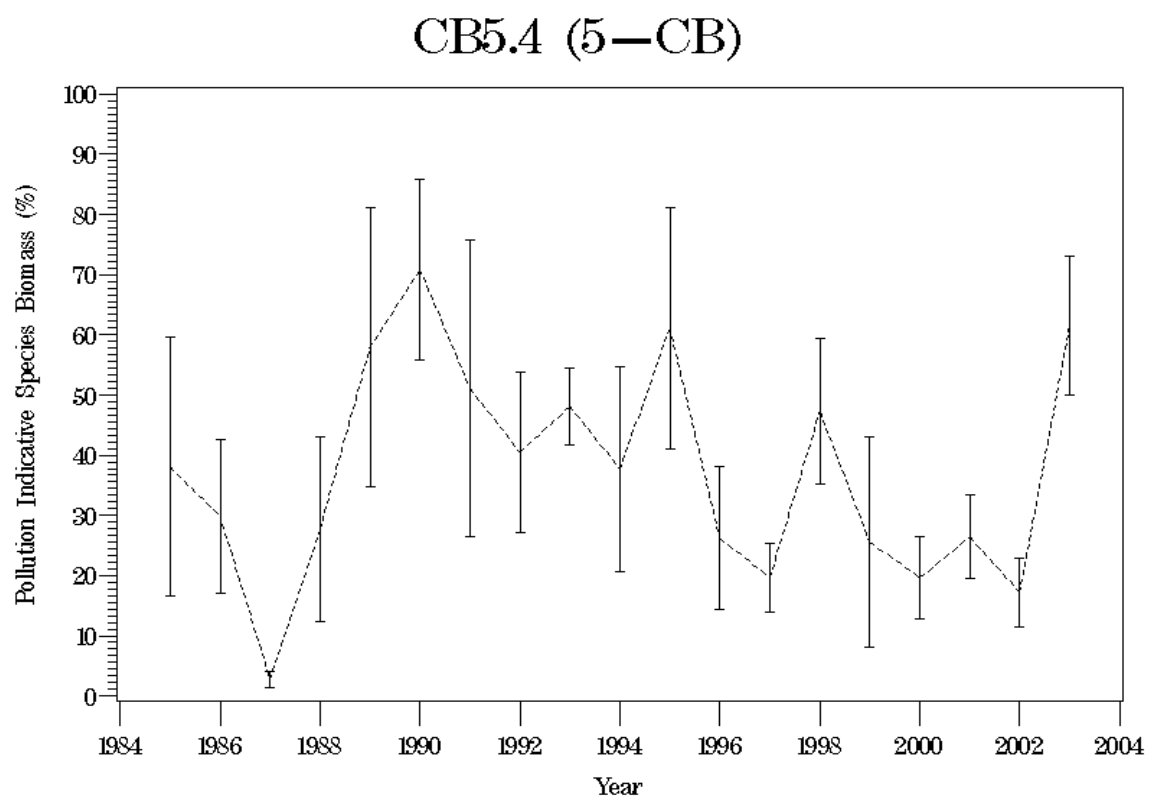


Figure M131. Plot of pollution indicative species biomass at station CB5.4 for 1985 through 2004.



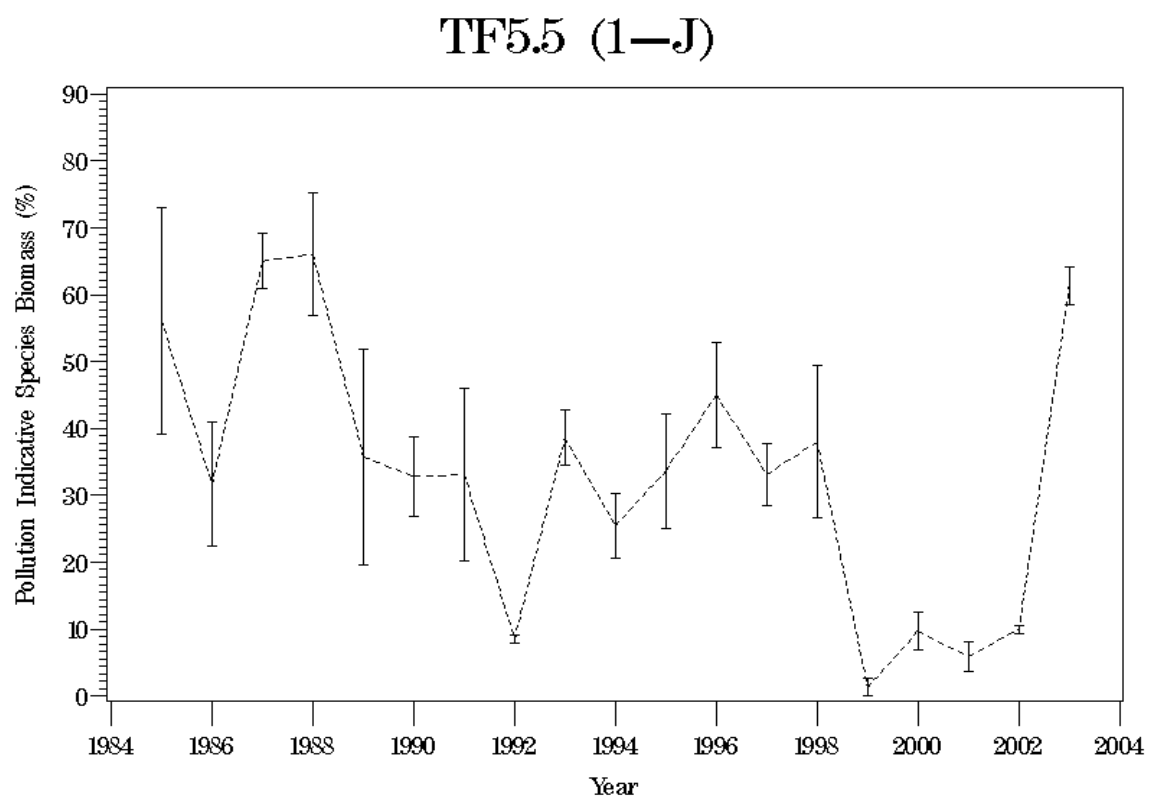


Figure M132. Plot of pollution indicative species biomass at station TF5.5 for 1985 through 2004.

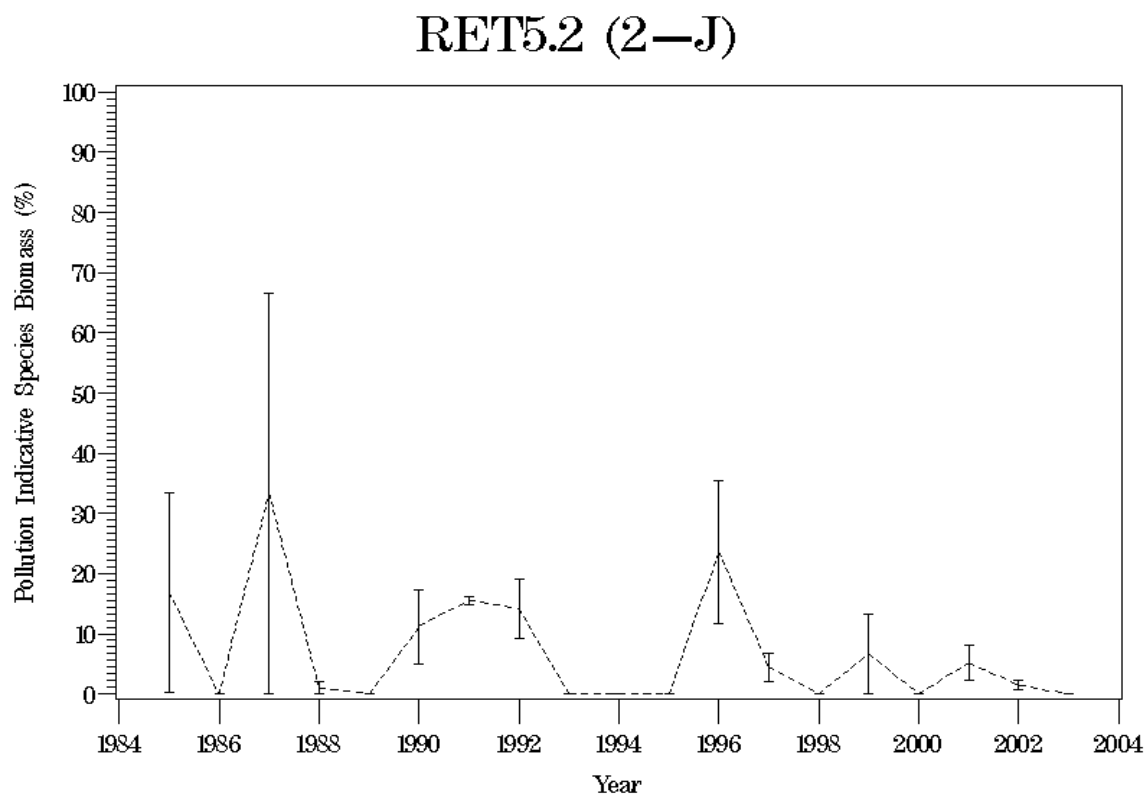


Figure M133. Plot of pollution indicative species biomass at station RET5.2 for 1985 through 2004.

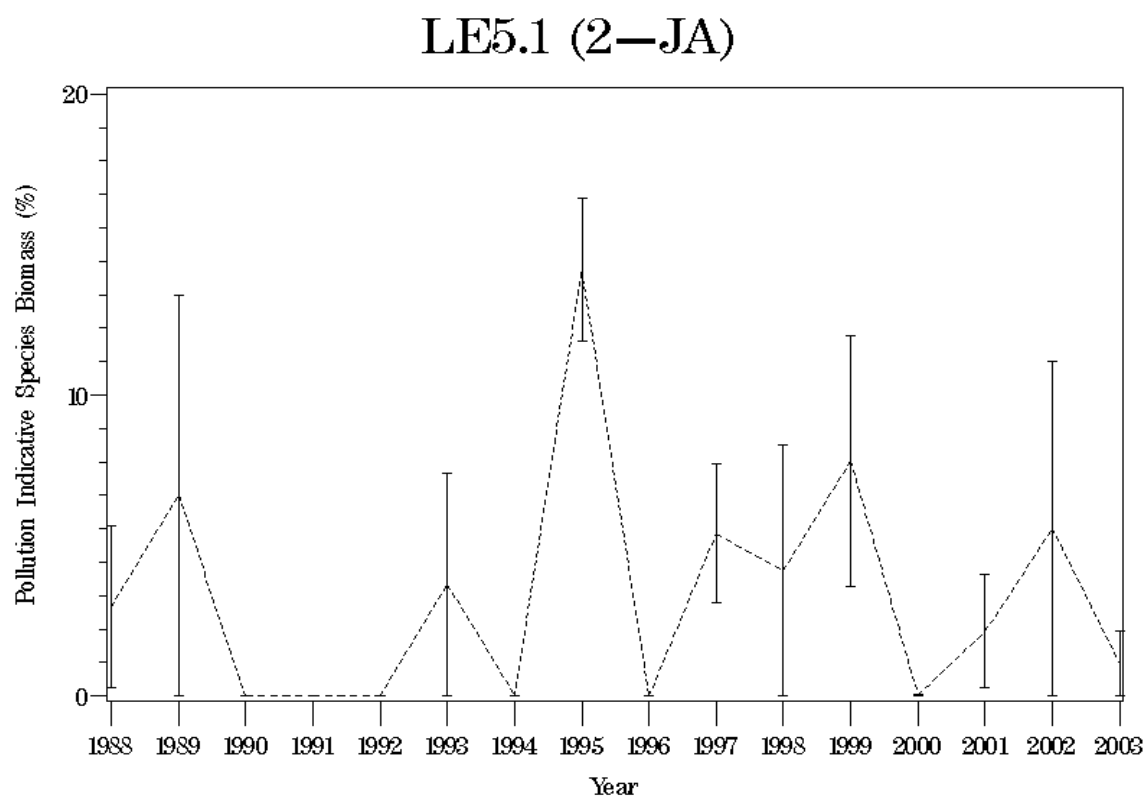


Figure M134. Plot of pollution indicative species biomass at station LE5.1 for 1985 through 2004.

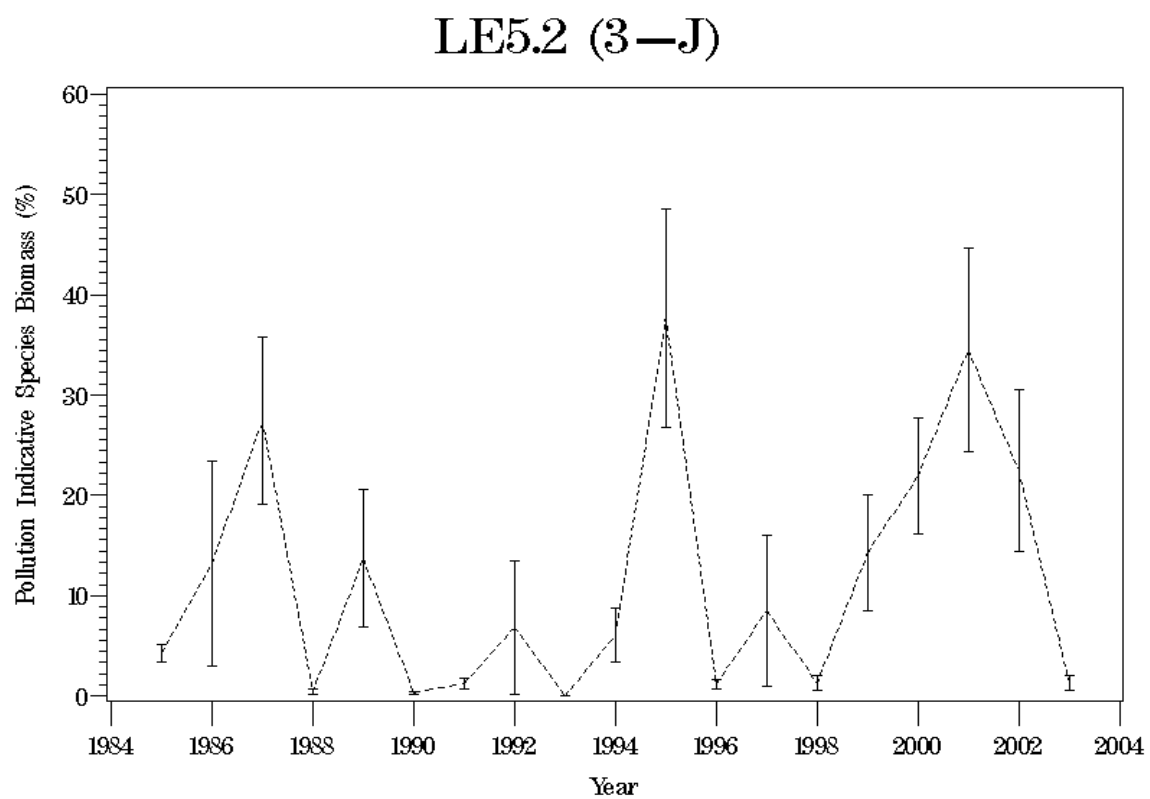


Figure M135. Plot of pollution indicative species biomass at station LE5.2 for 1985 through 2004.

## LE5.4 (4-J)

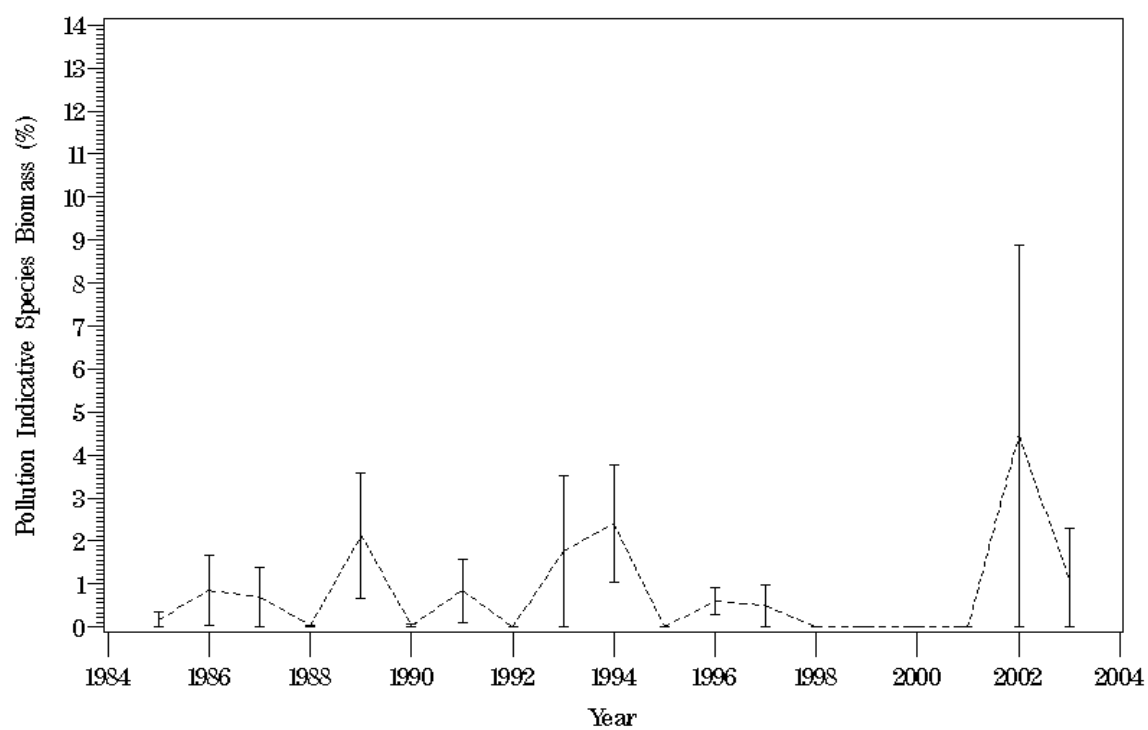


Figure M136. Plot of pollution indicative species biomass at station LE5.4 for 1985 through 2004.

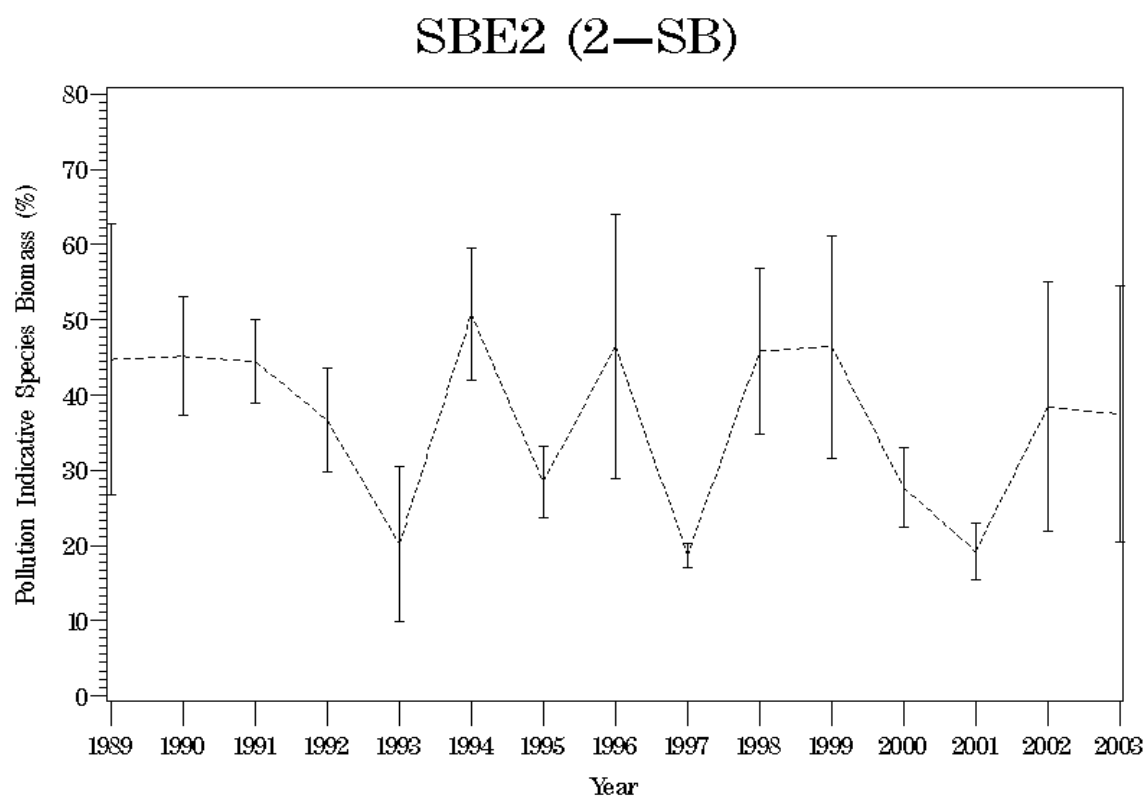


Figure M137. Plot of pollution indicative species biomass at station SBE2 for 1985 through 2004.

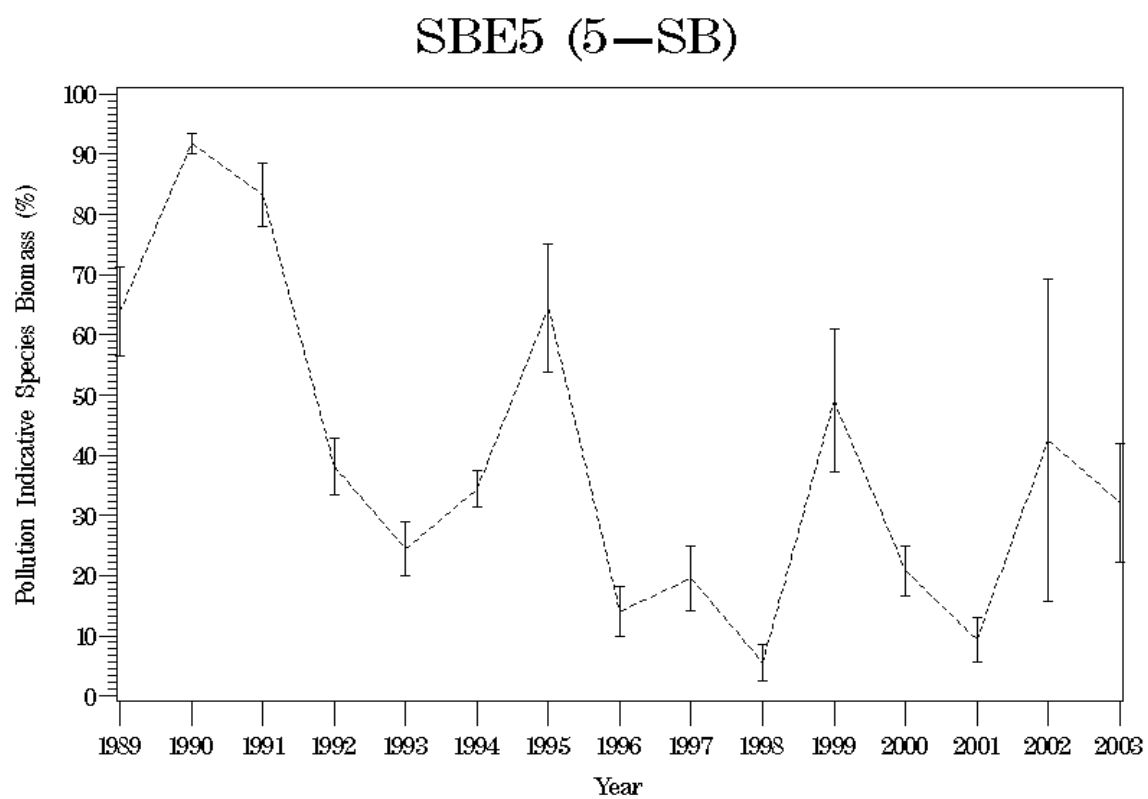


Figure M138. Plot of pollution indicative species biomass at station SBE5 for 1985 through 2004.

## TF4.2 (1-YP)

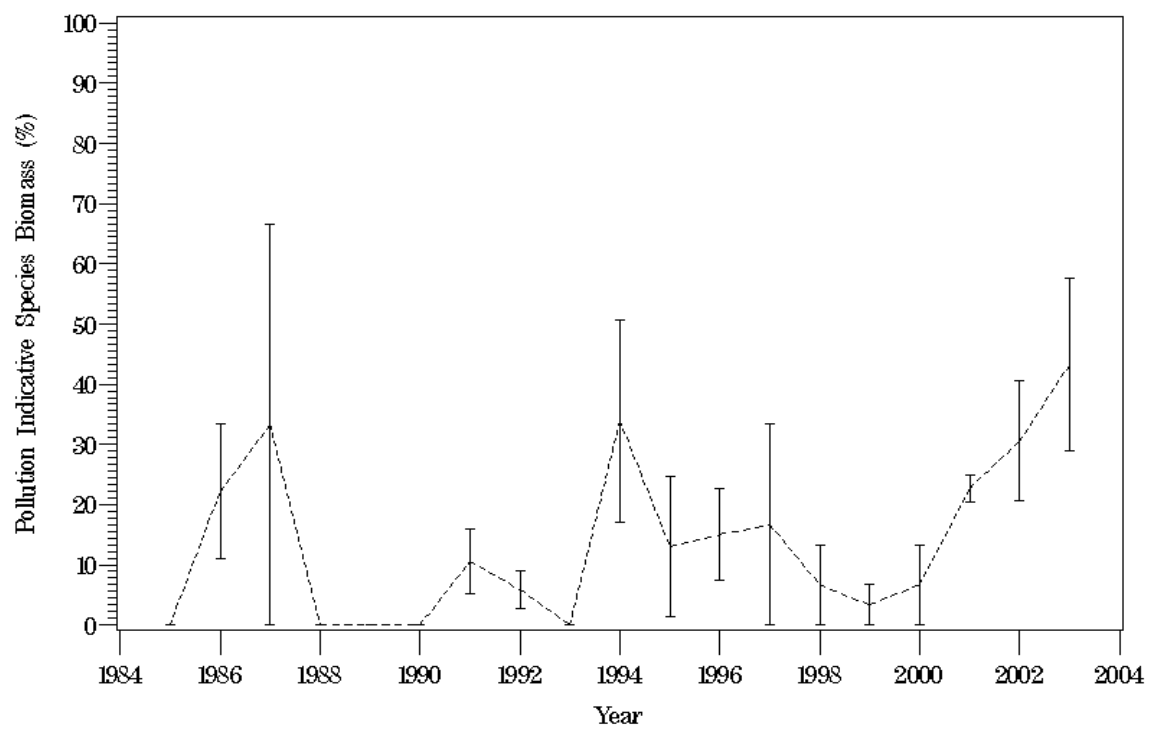


Figure M139. Plot of pollution indicative species biomass at station TF4.2 for 1985 through 2004.



## RET4.3 (2-YP)

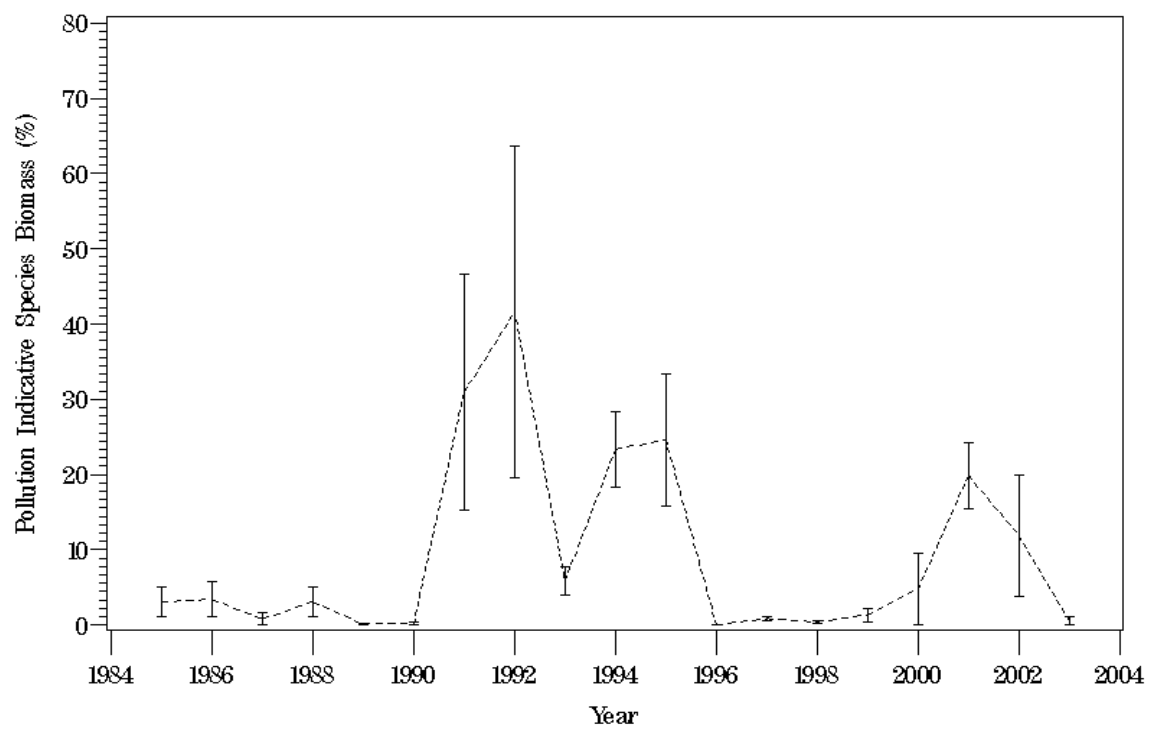


Figure M140. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2004.

## LE4.1 (3-YP)

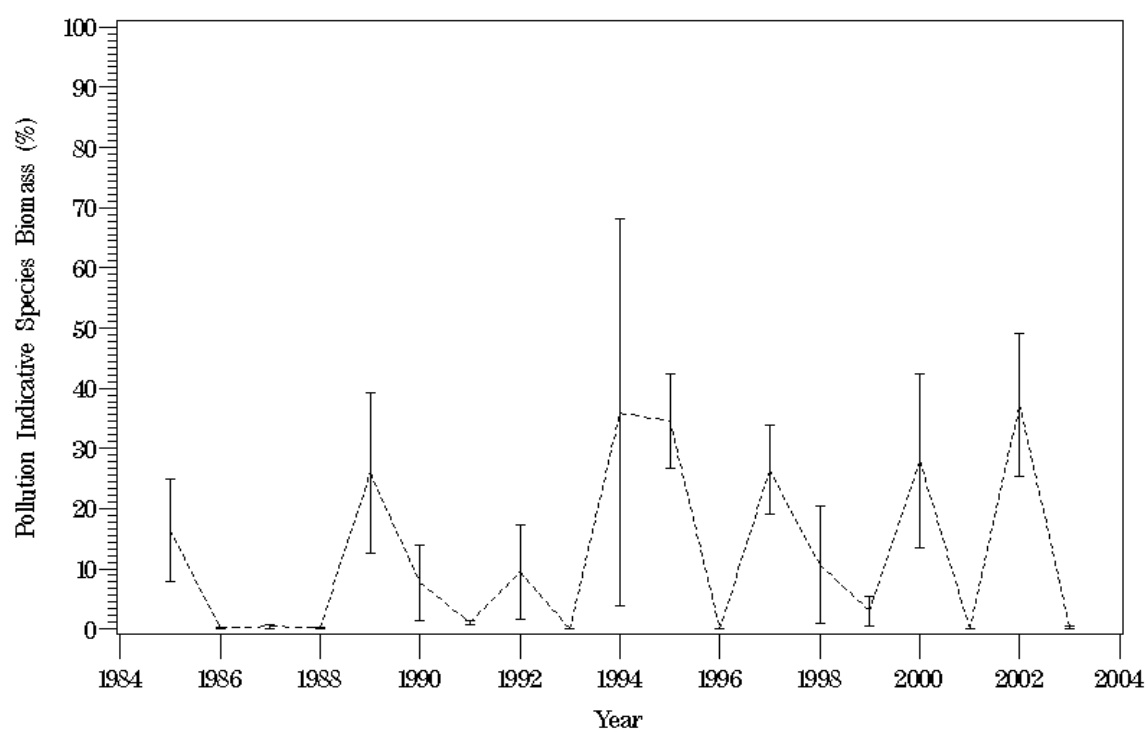


Figure M141. Plot of pollution indicative species biomass at station LE4.1 for 1985 through 2004.

## LE4.3 (4-YP)

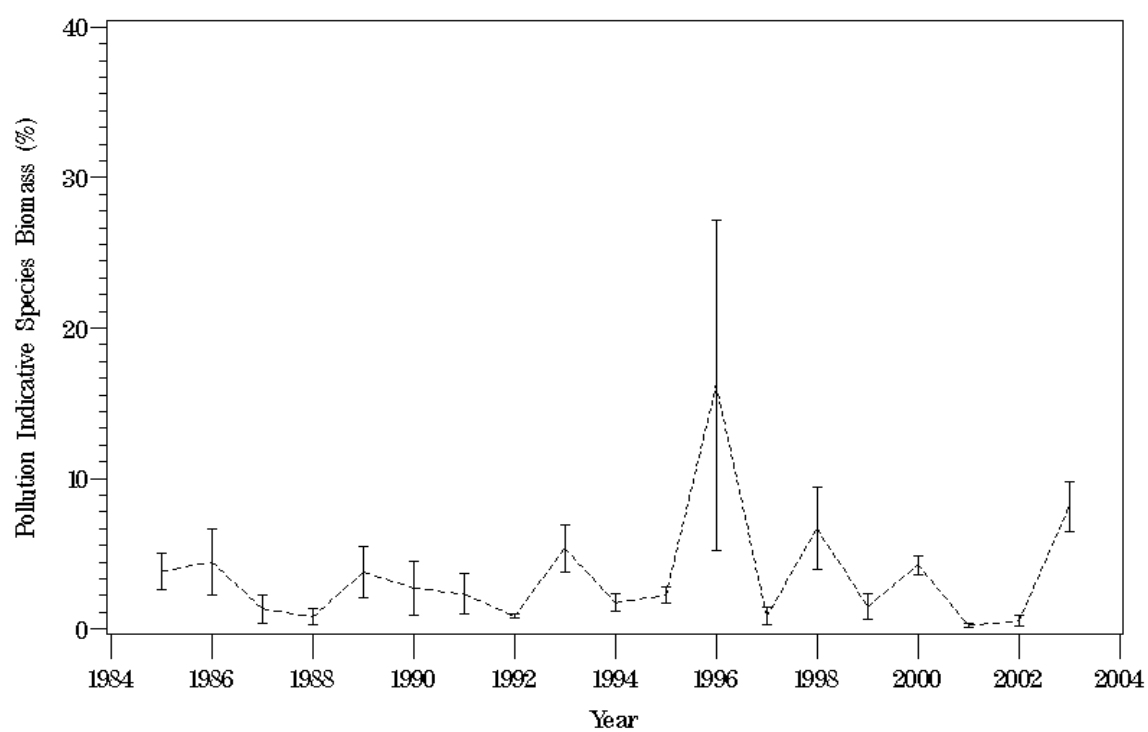


Figure M142. Plot of pollution indicative species biomass at station LE4.3 for 1985 through 2004.

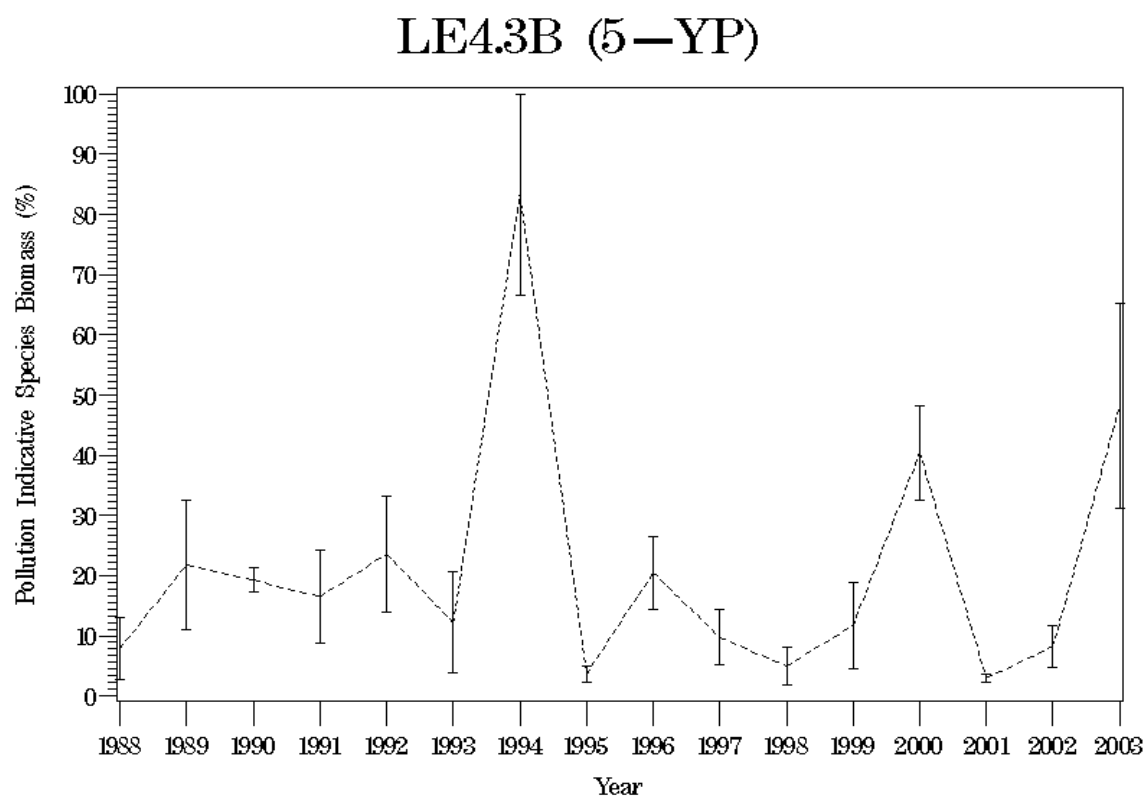


Figure M143. Plot of pollution indicative species biomass at station LE4.3B for 1985 through 2004.

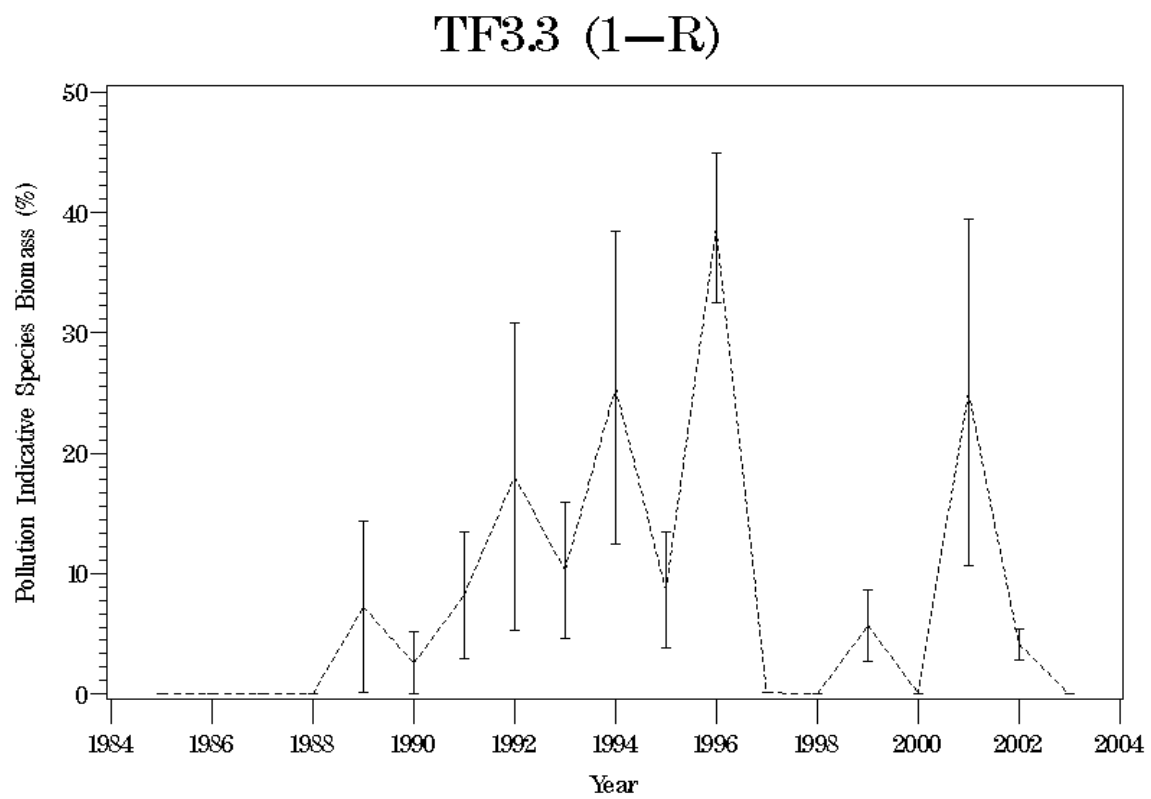


Figure M144. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2004.

## RET3.1 (2-R)

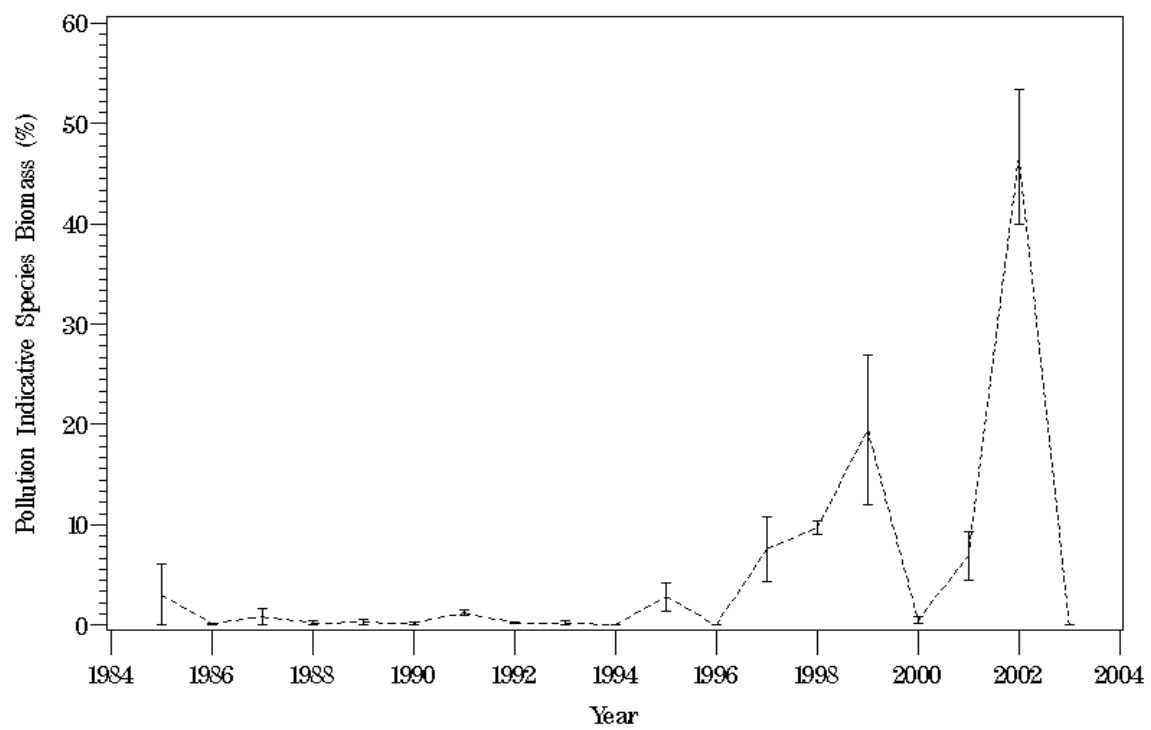


Figure M145. Plot of pollution indicative species biomass at station RET3.1 for 1985 through 2004.

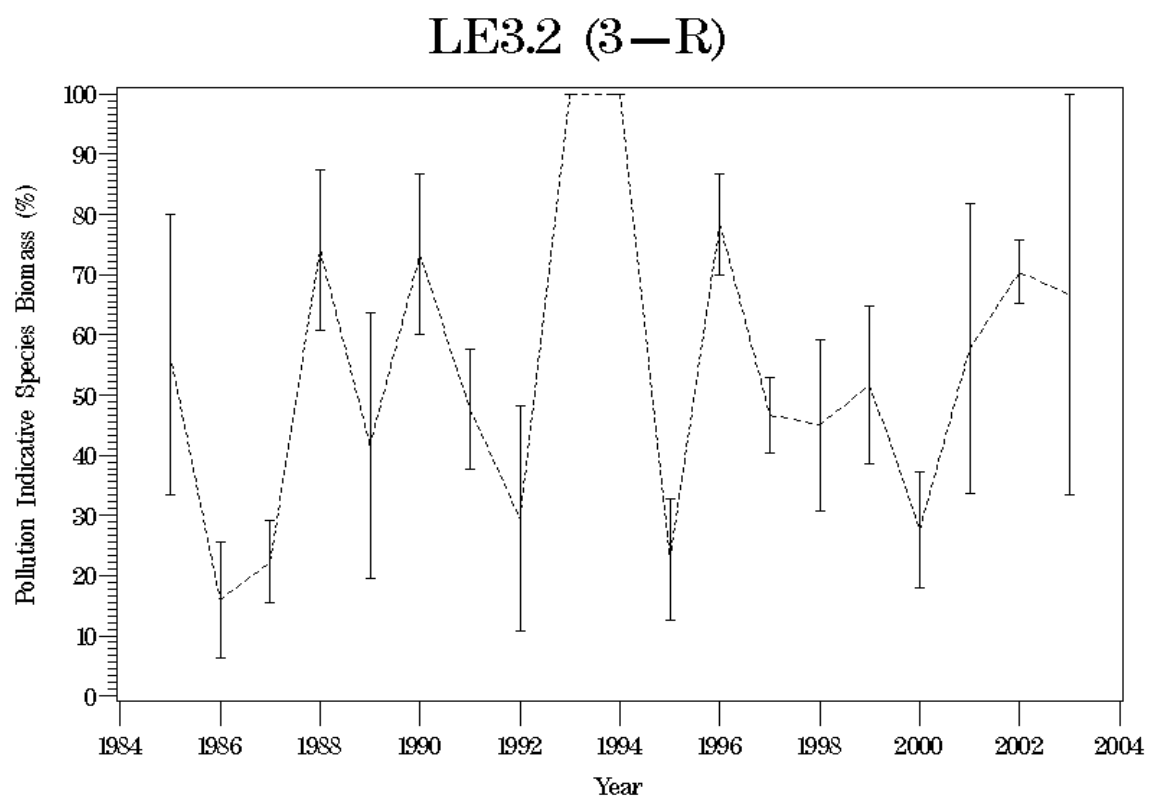


Figure M146. Plot of pollution indicative species biomass at station LE3.2 for 1985 through 2004.

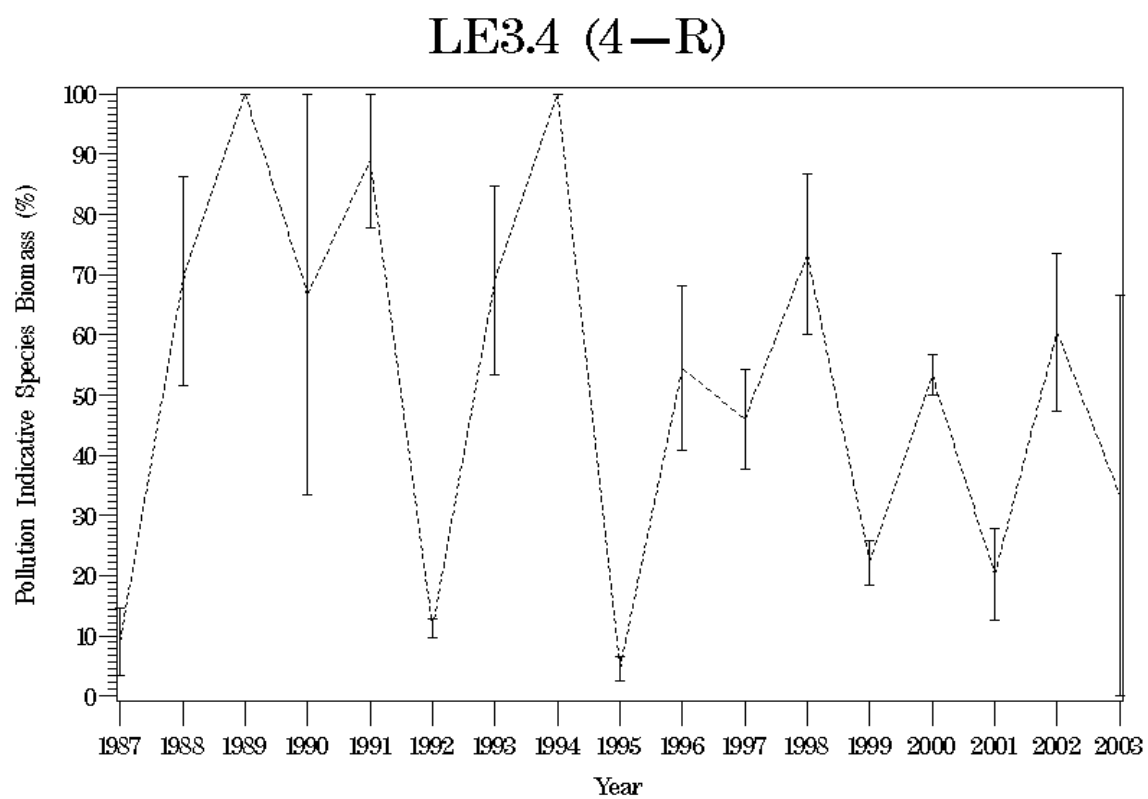


Figure M147. Plot of pollution indicative species biomass at station LE3.4 for 1985 through 2004.



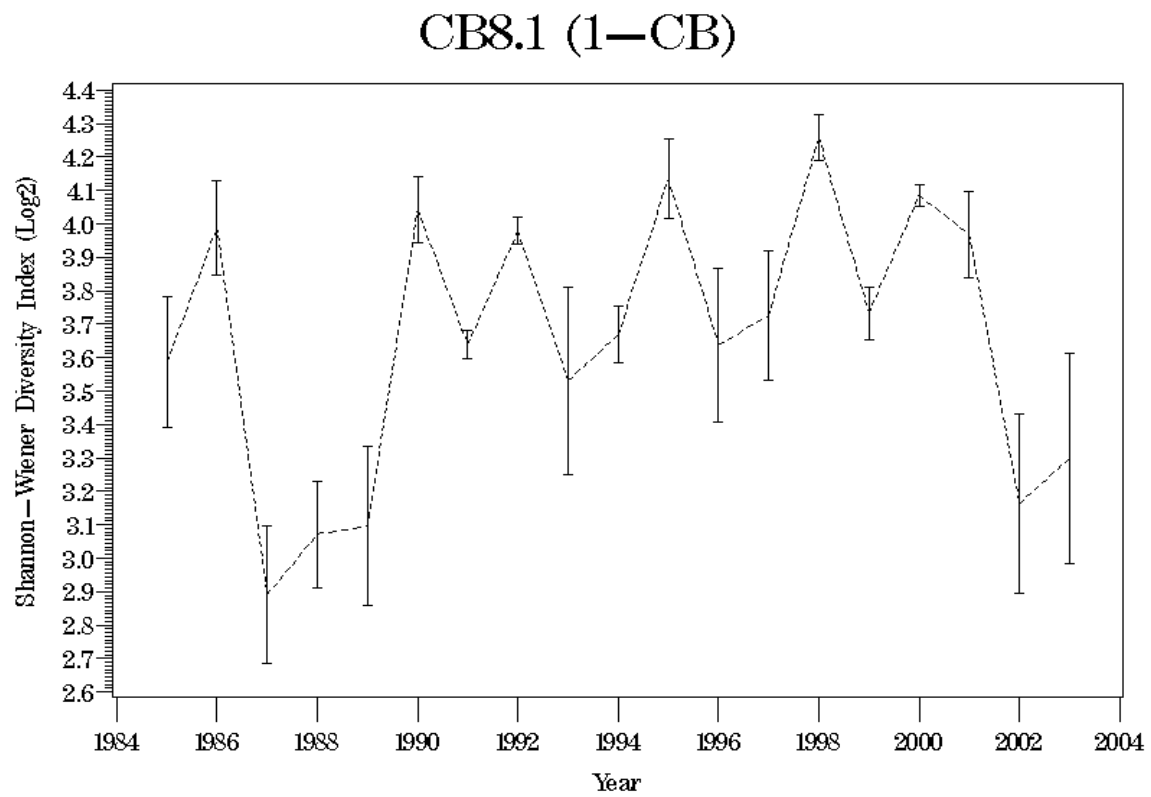


Figure M148. Plot of Shannon-Weiner diversity index at station CB8.1 for 1985 through 2004.

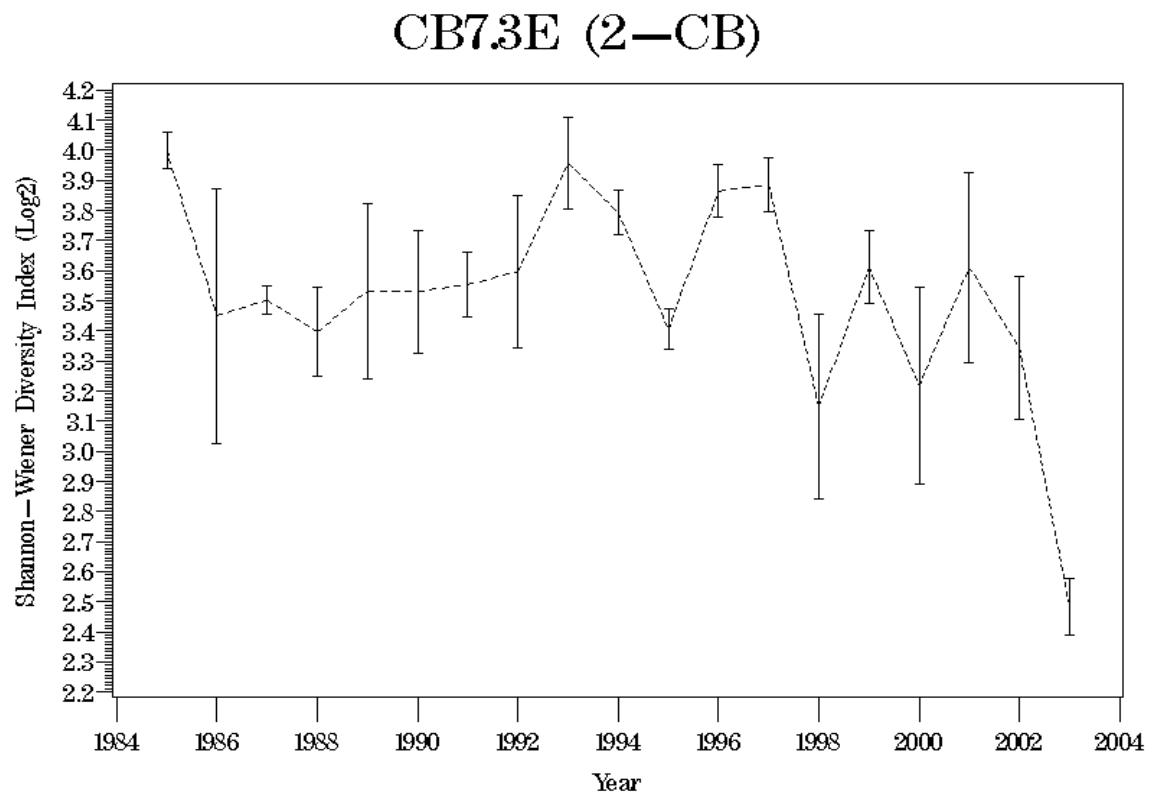


Figure M149. Plot of Shannon-Weiner diversity index at station CB7.3E for 1985 through 2004.

### CB6.4 (3—CB)

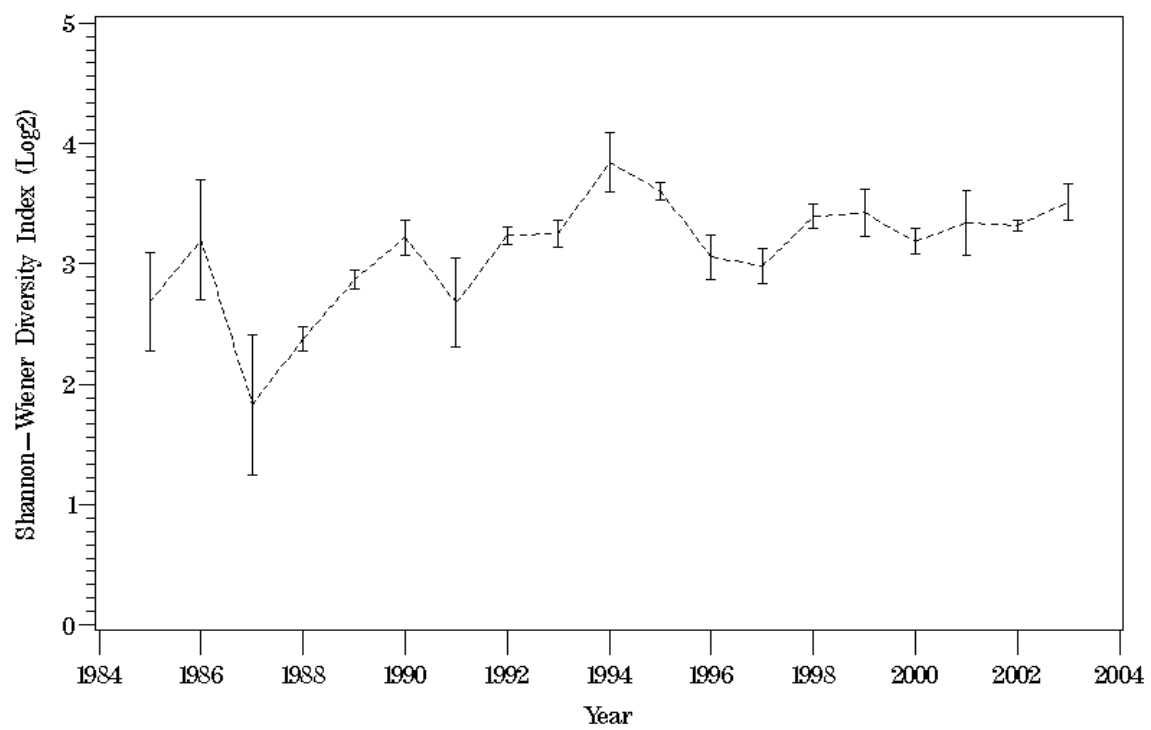


Figure M150. Plot of Shannon-Weiner diversity index at station CB6.4 for 1985 through 2004.

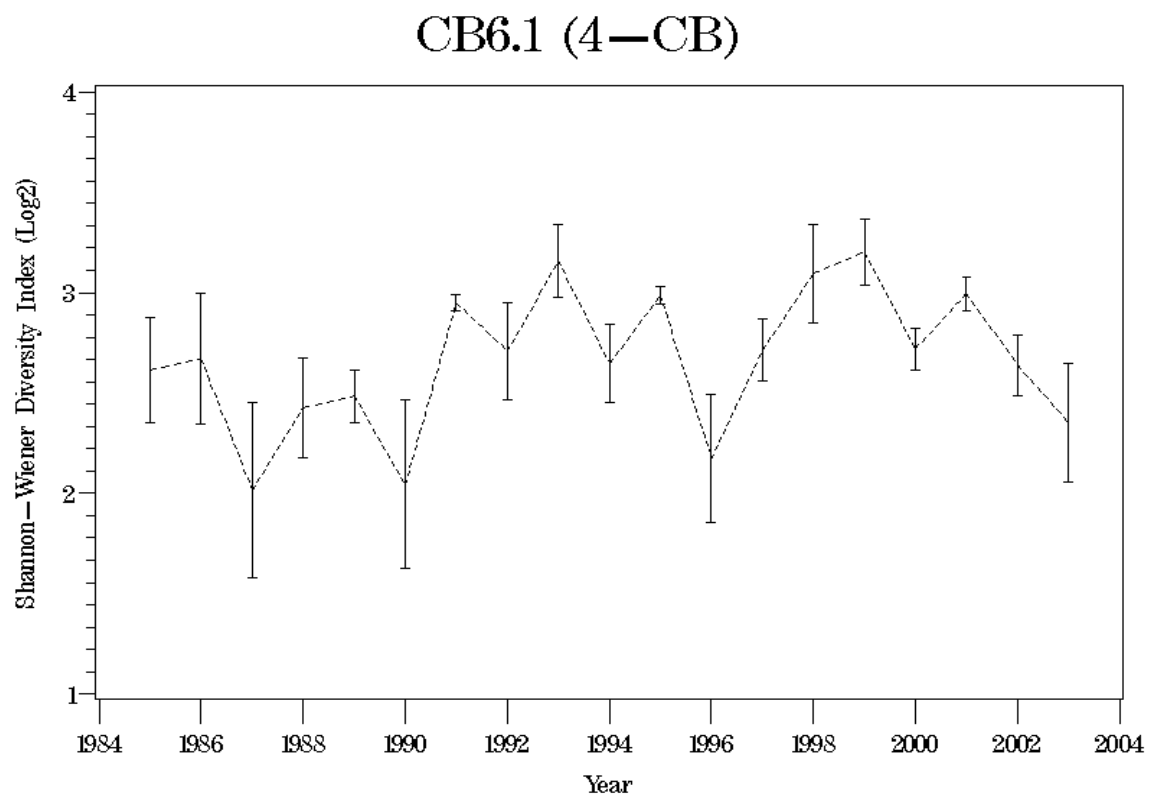


Figure M151. Plot of Shannon-Weiner diversity index at station CB6.1 for 1985 through 2004.

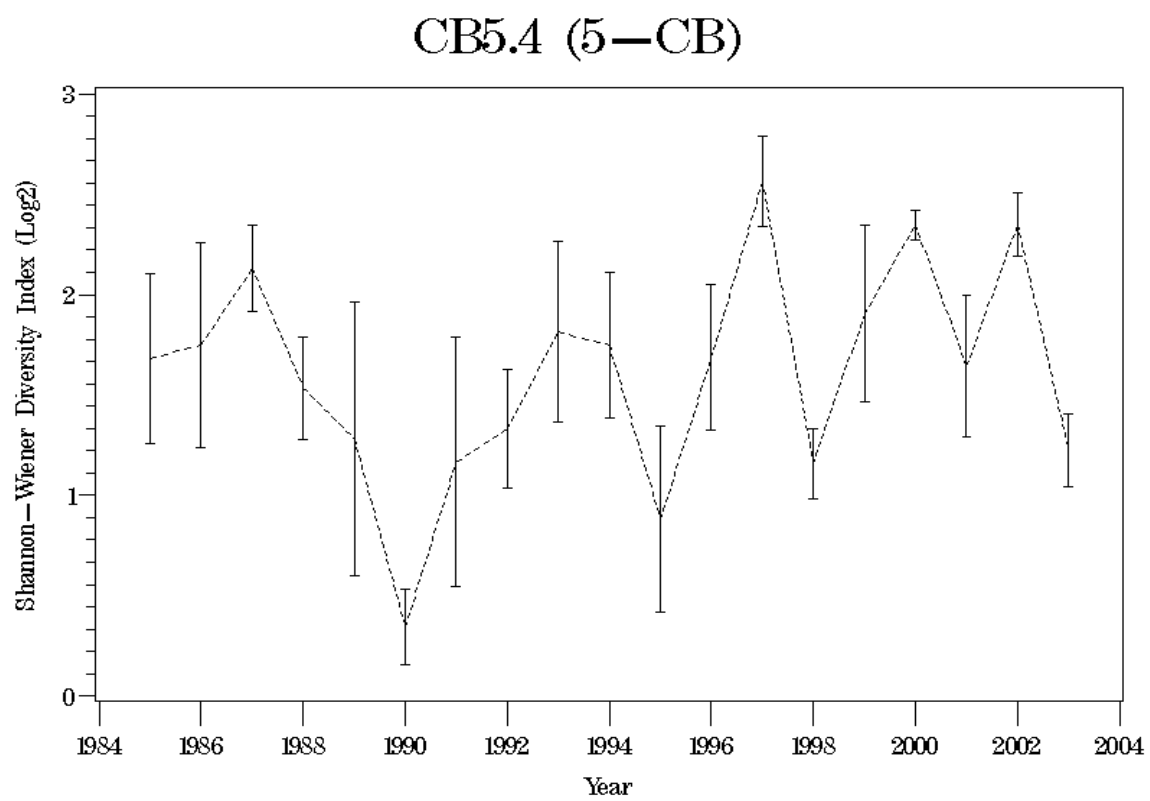


Figure M152. Plot of Shannon-Weiner diversity index at station CB5.4 for 1985 through 2004.

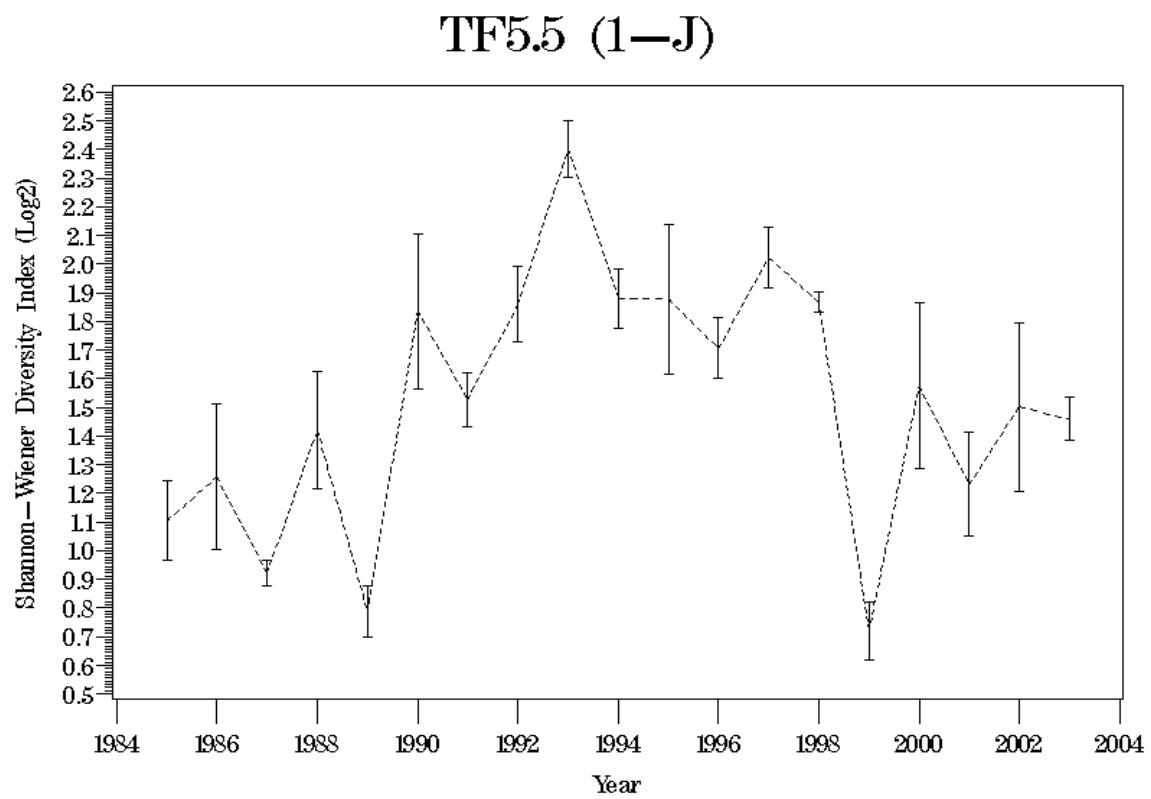


Figure M153. Plot of Shannon-Weiner diversity index at station TF5.5 for 1985 through 2004.

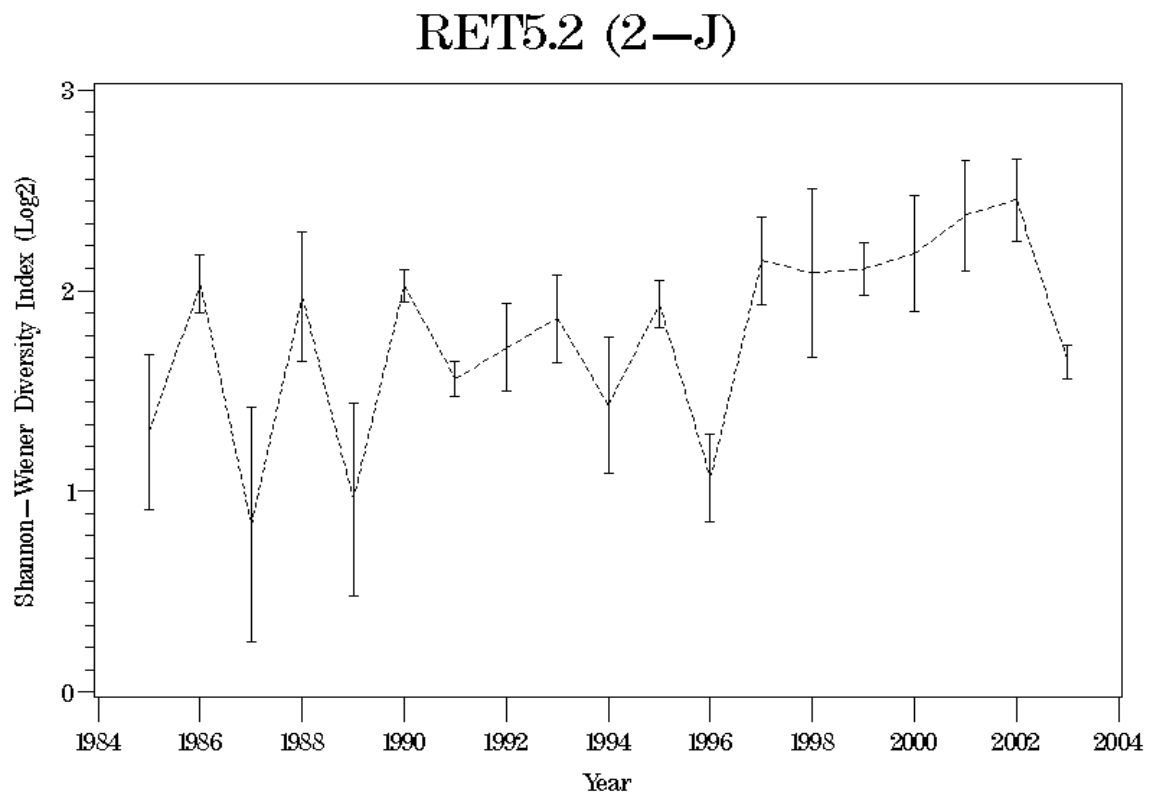


Figure M154. Plot of Shannon-Weiner diversity index at station RET5.2 for 1985 through 2004.

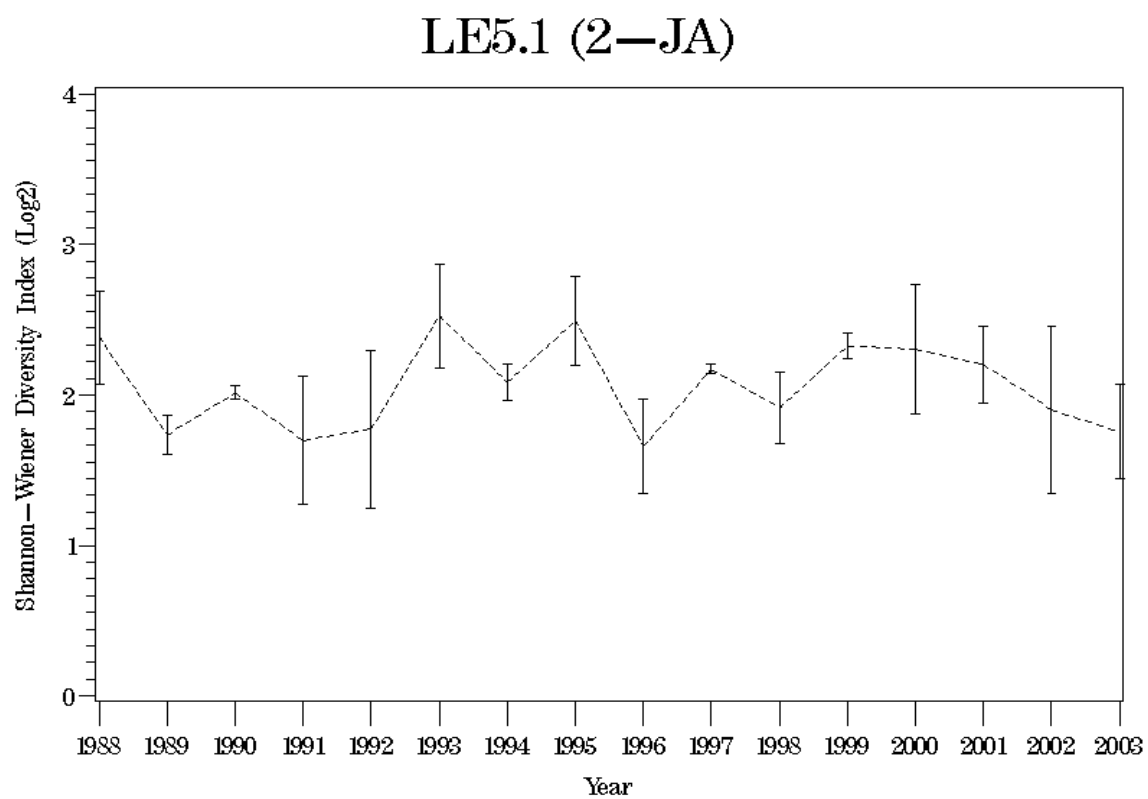


Figure M155. Plot of Shannon-Weiner diversity index at station LE5.1 for 1985 through 2004.



## LE5.2 (3-J)

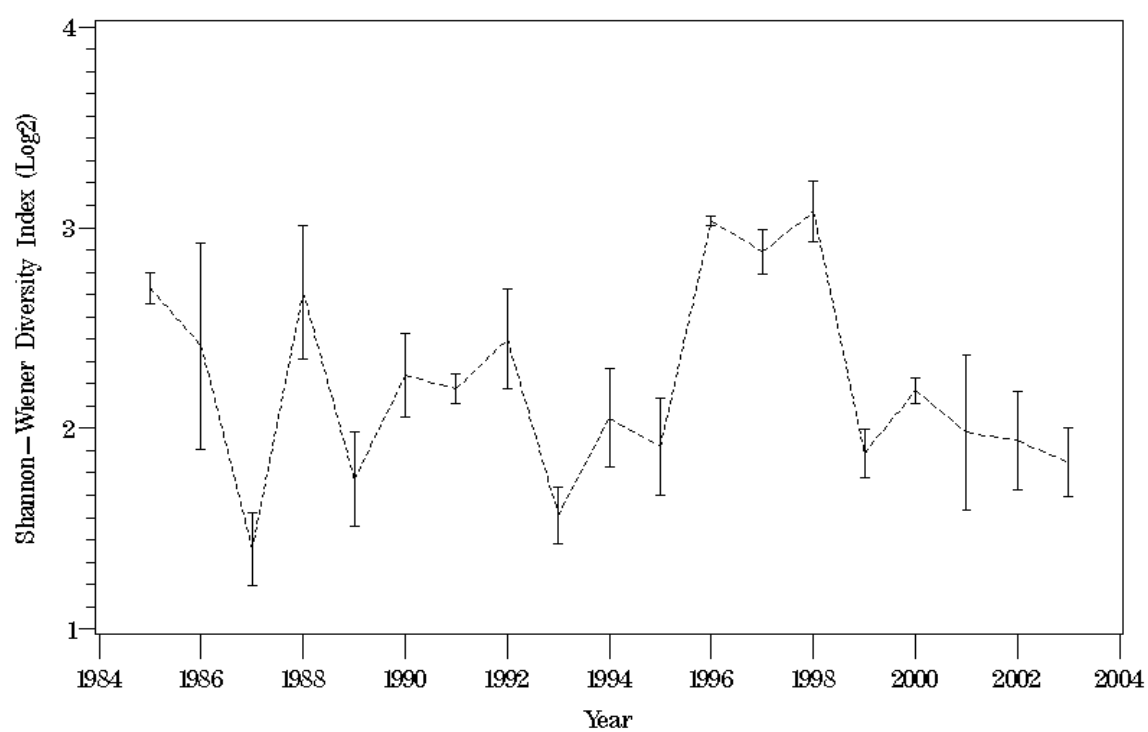


Figure M156. Plot of Shannon-Weiner diversity index at station LE5.2 for 1985 through 2004.

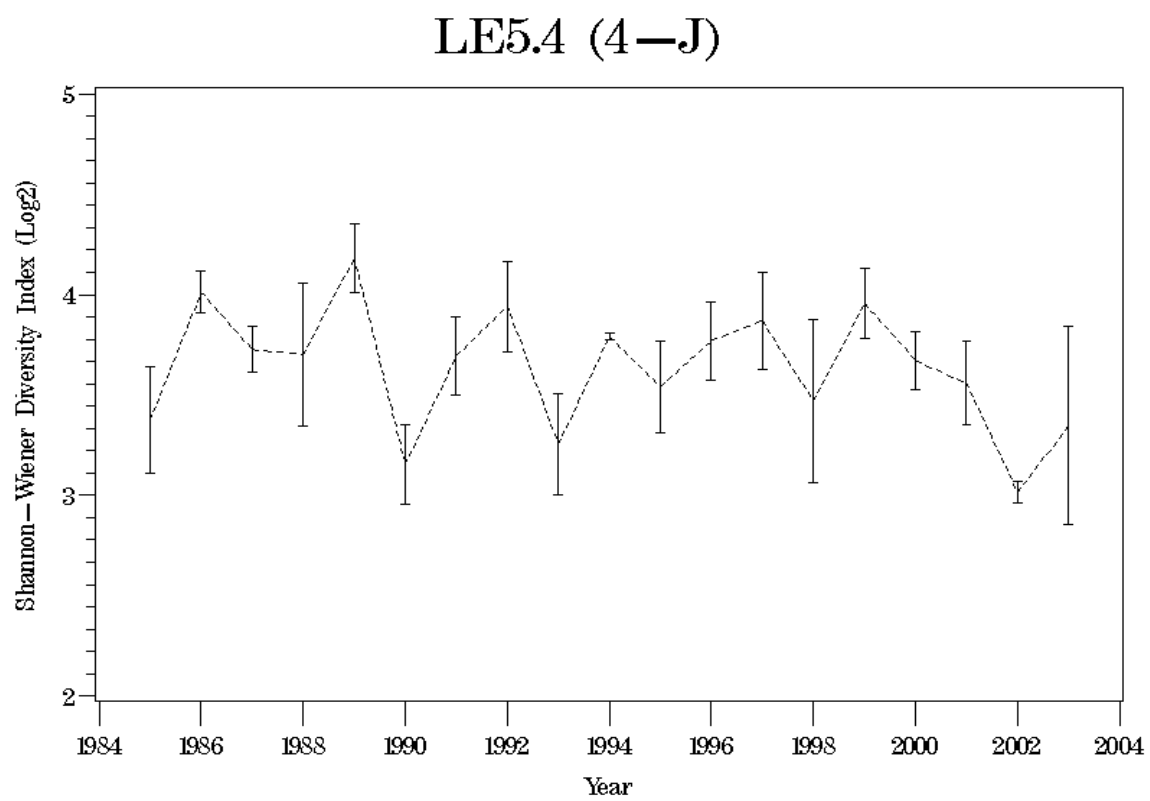


Figure M157. Plot of Shannon-Weiner diversity index at station LE5.4 for 1985 through 2004.

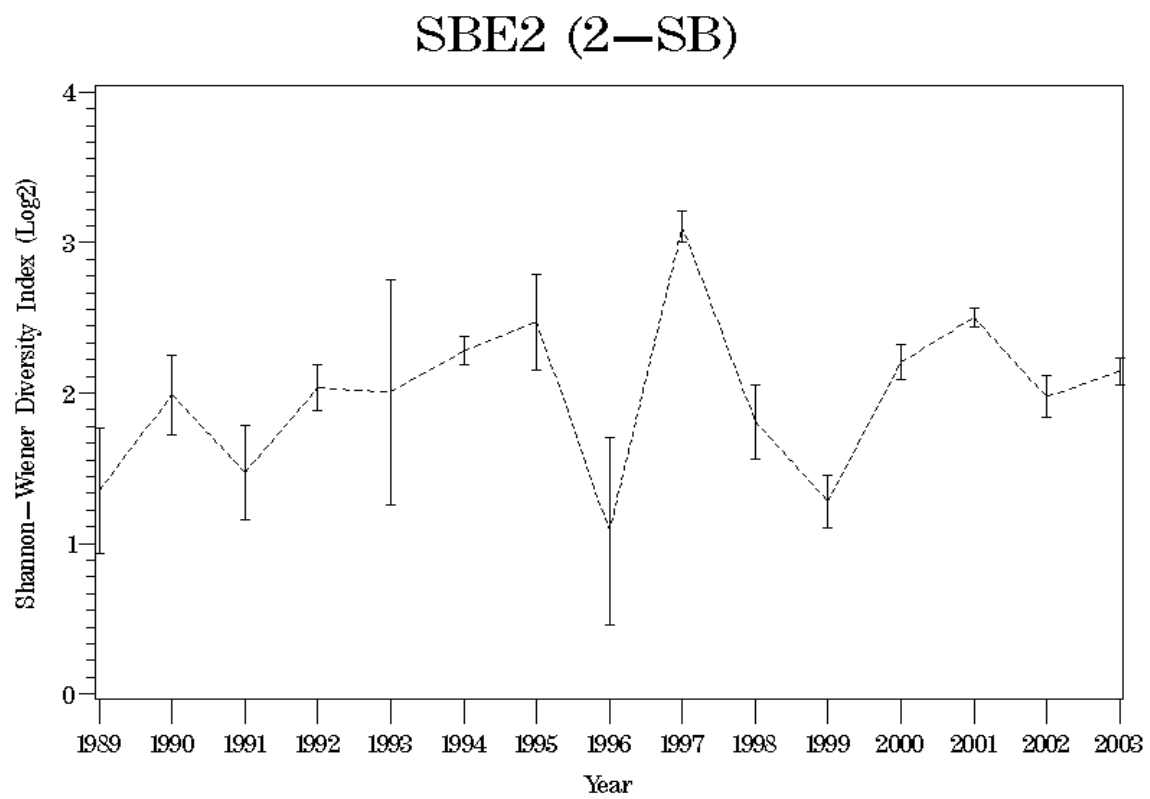


Figure M158. Plot of Shannon-Weiner diversity index at station SBE2 for 1985 through 2004.

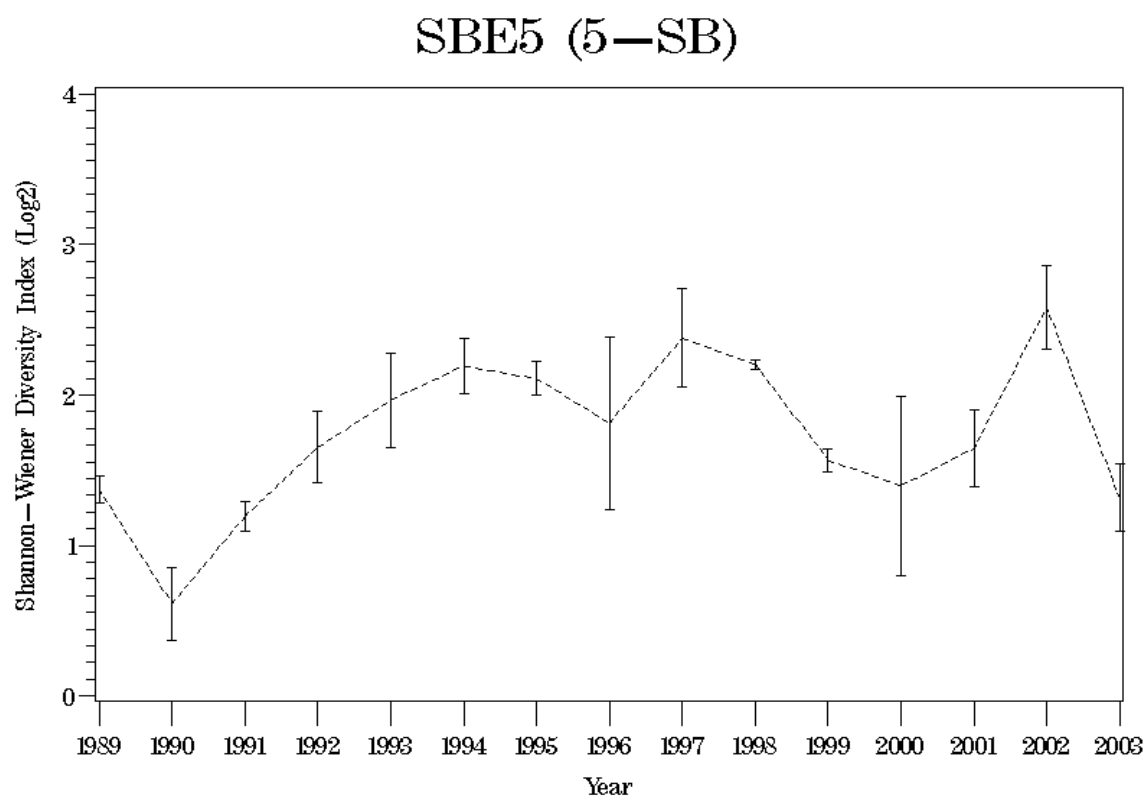


Figure M159. Plot of Shannon-Weiner diversity index at station SBE5 for 1985 through 2004.

## TF4.2 (1-YP)

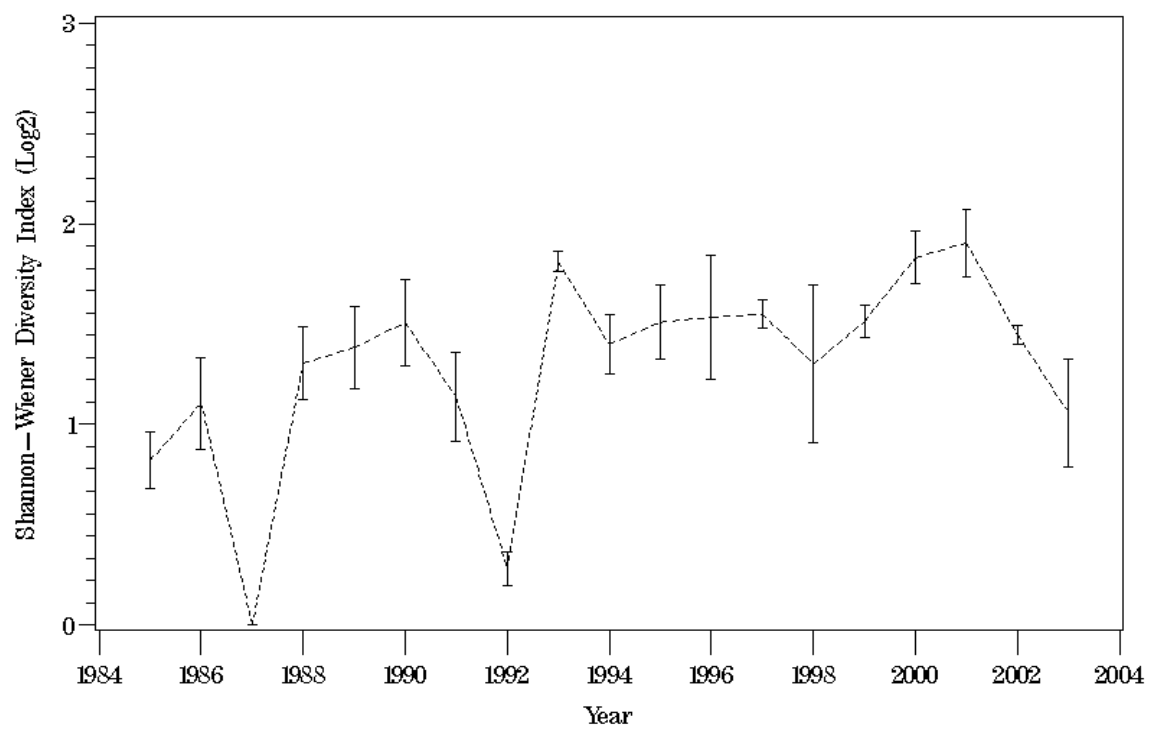


Figure M160. Plot of Shannon-Weiner diversity index at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

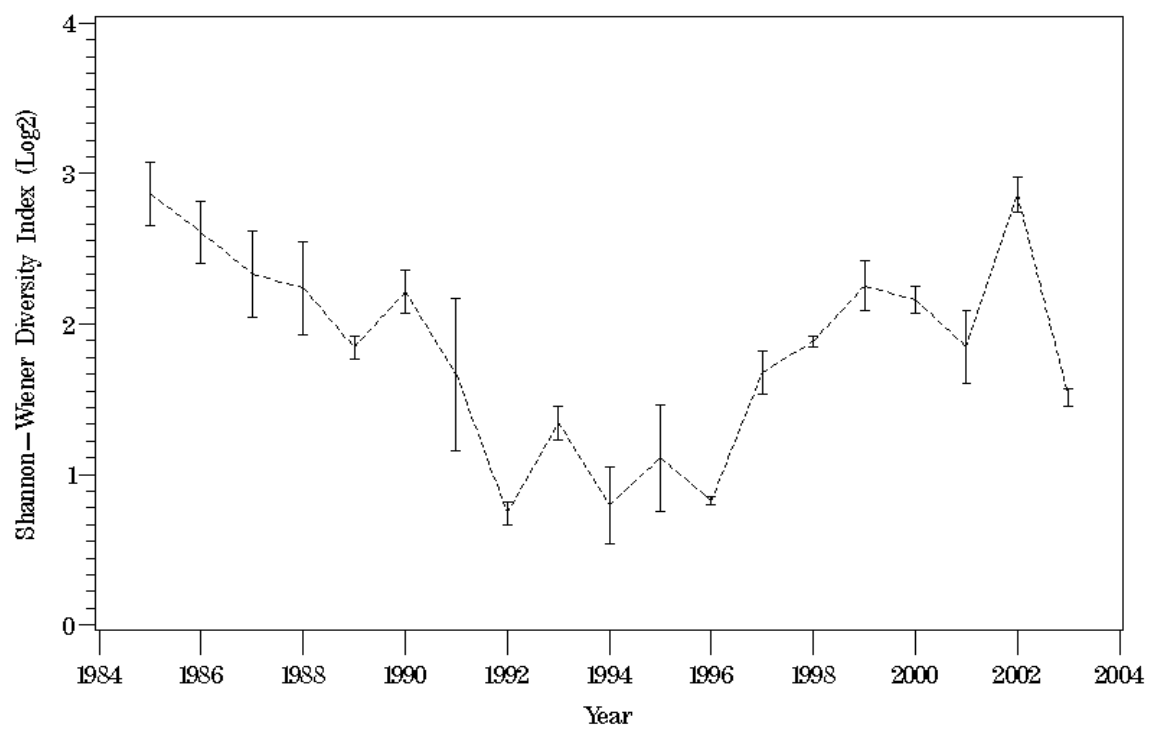


Figure M161. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2004.

## LE4.1 (3-YP)

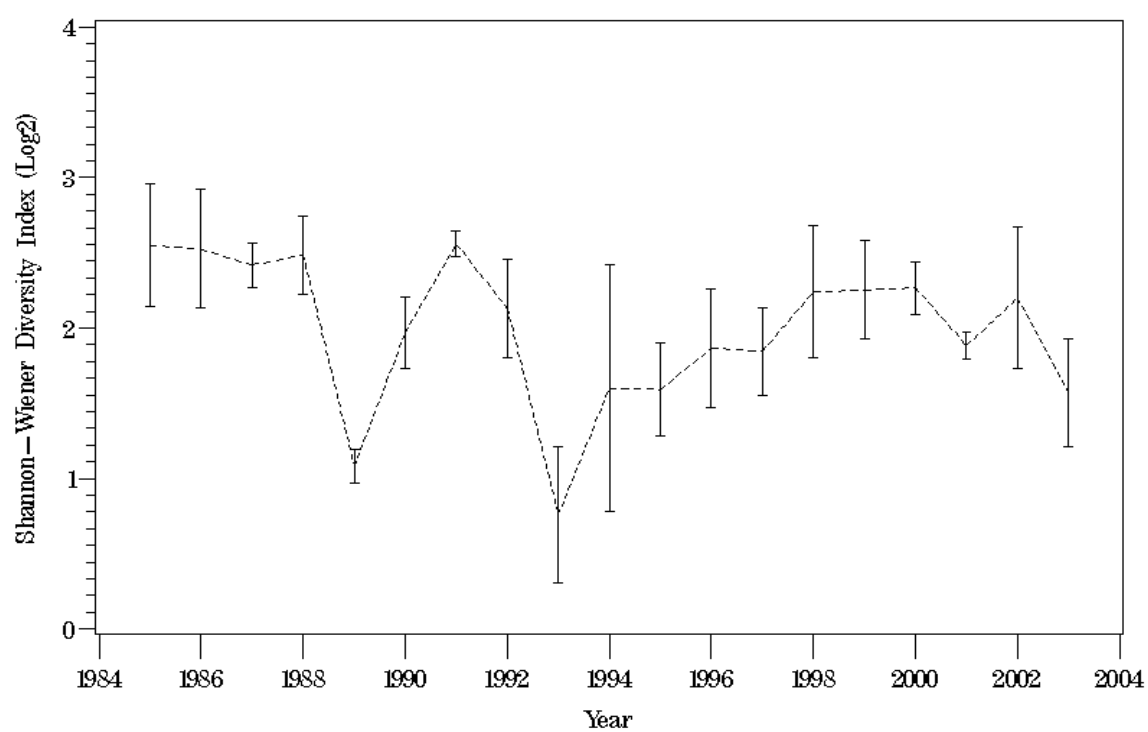


Figure M162. Plot of Shannon-Weiner diversity index at station LE4.1 for 1985 through 2004.

## LE4.3 (4-YP)

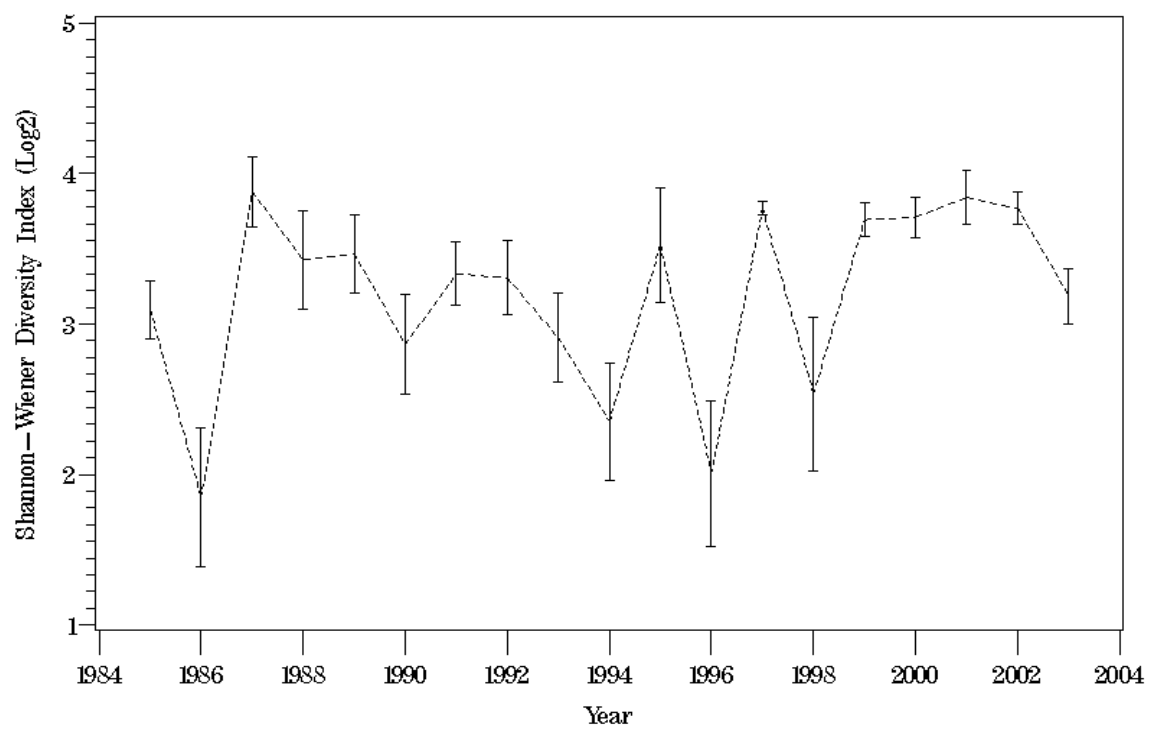


Figure M163. Plot of Shannon-Weiner diversity index at station LE4.3 for 1985 through 2004.



## LE4.3B (5-YP)

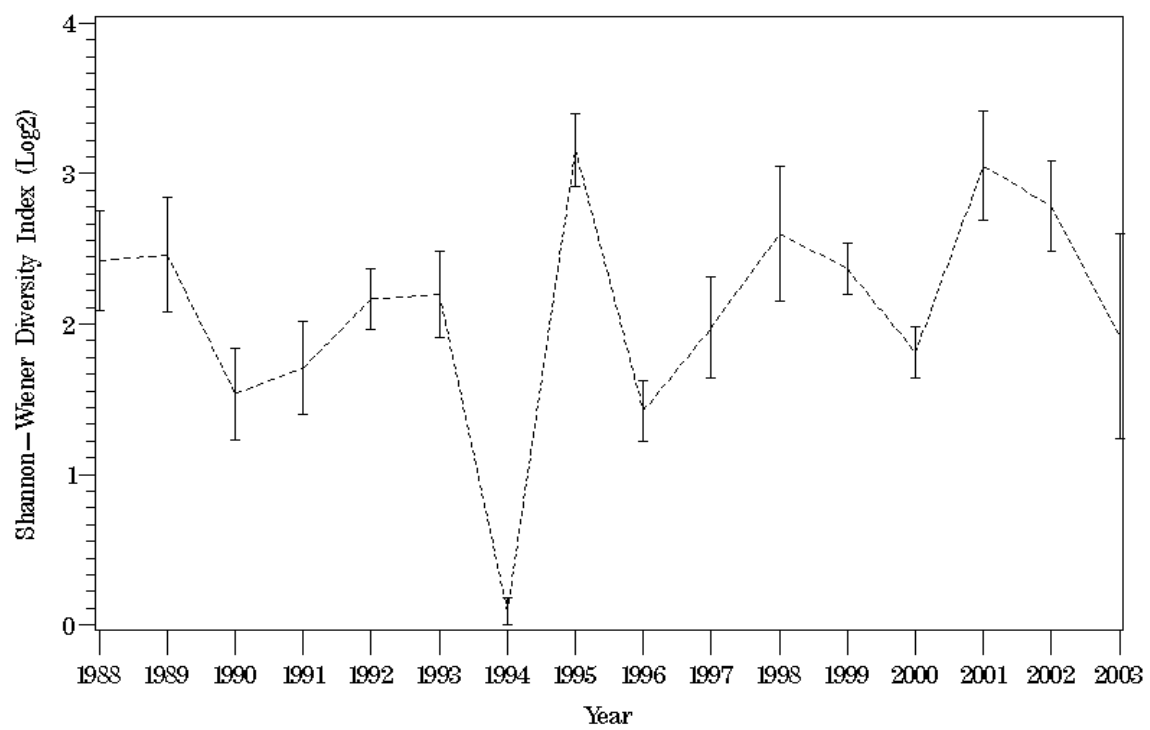


Figure M164. Plot of Shannon-Weiner diversity index at station LE4.3B for 1985 through 2004.

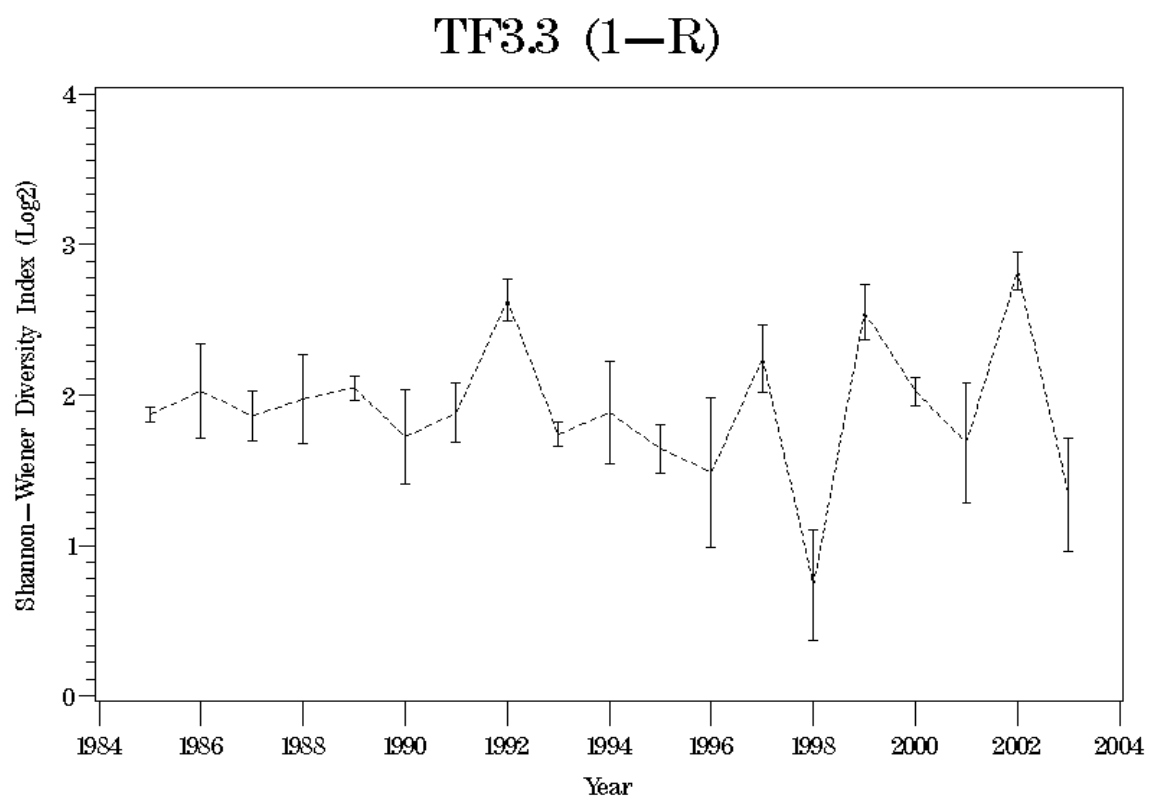


Figure M165. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2004.

## RET3.1 (2-R)

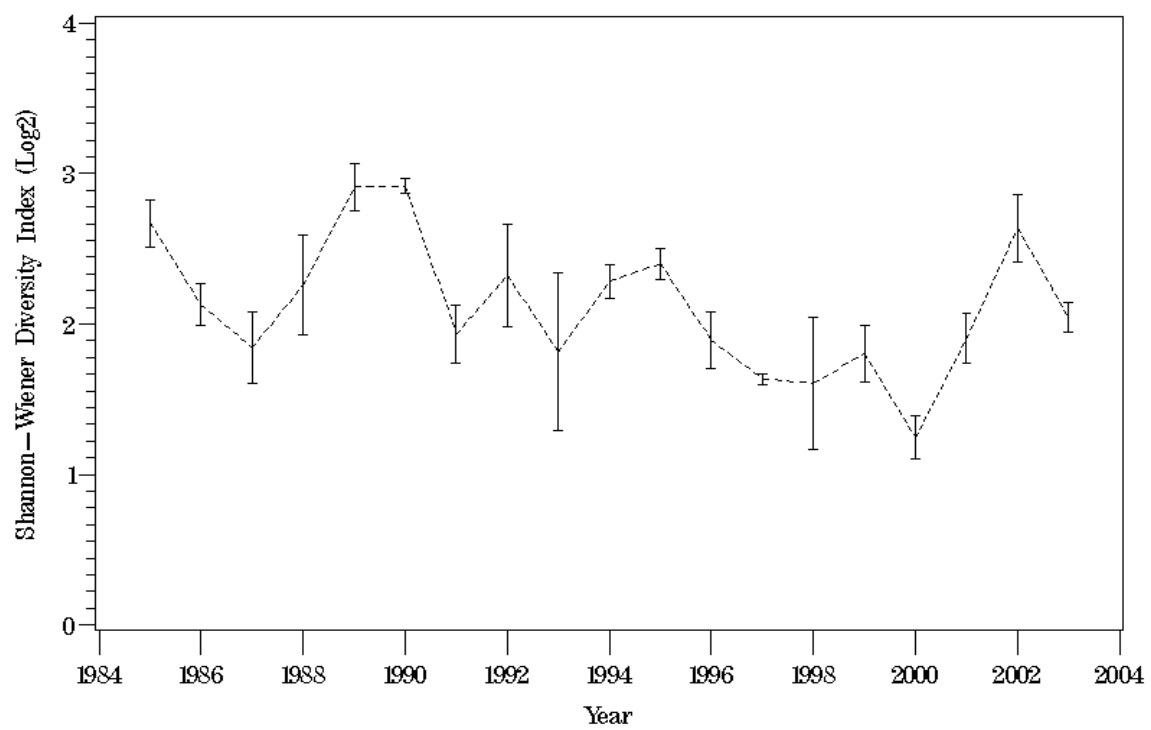


Figure M166. Plot of Shannon-Weiner diversity index at station RET3.1 for 1985 through 2004.

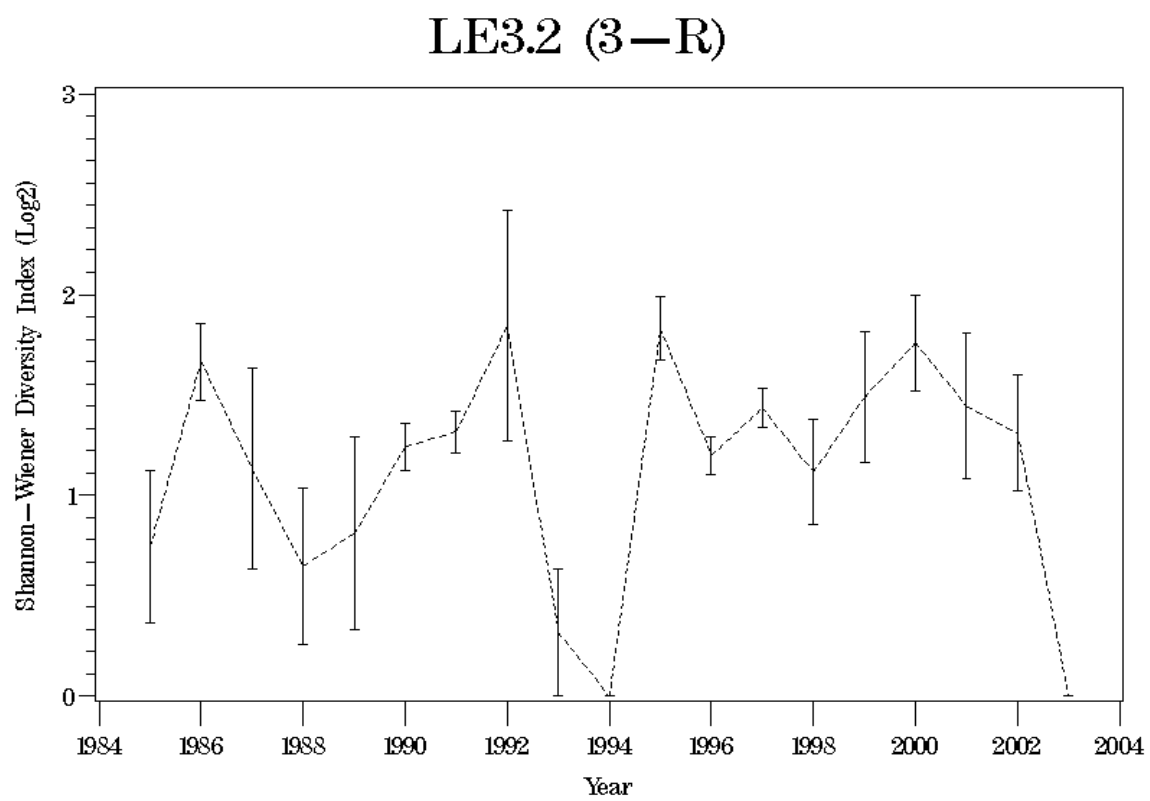


Figure M167. Plot of Shannon-Weiner diversity index at station LE3.2 for 1985 through 2004.

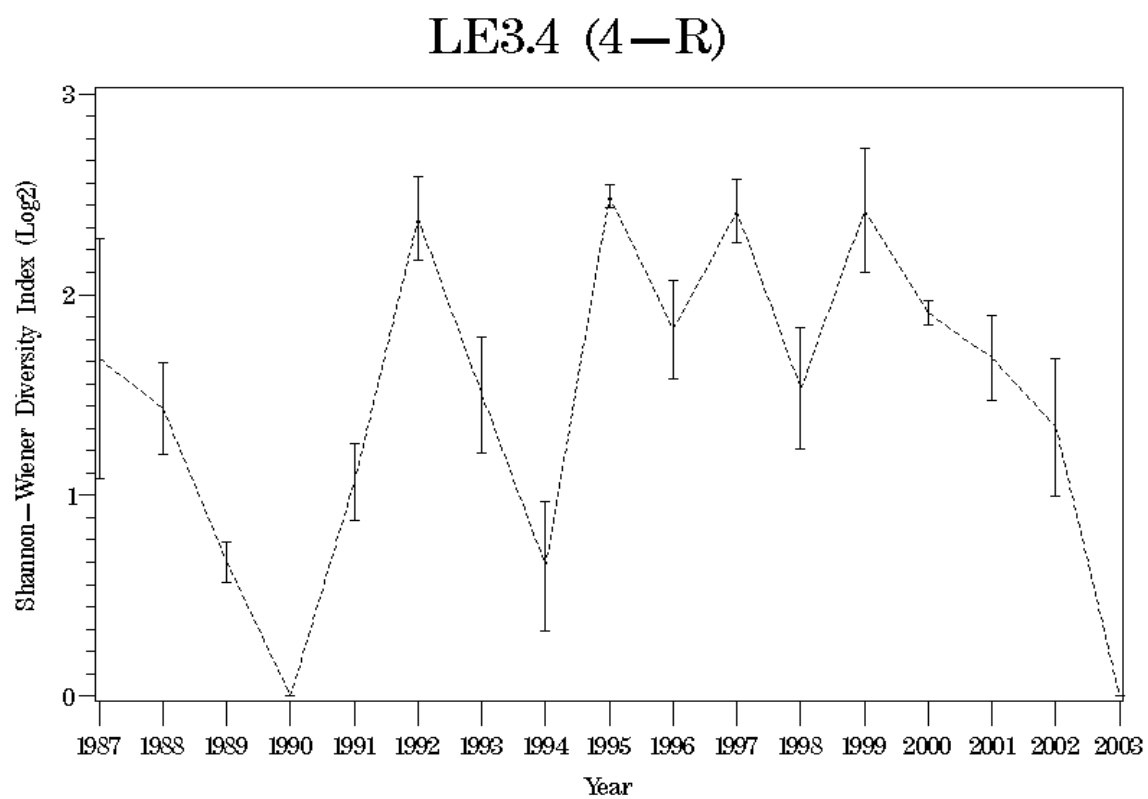


Figure M168. Plot of Shannon-Weiner diversity index at station LE3.4 for 1985 through 2004.