

Appendix F. Scatterplots of the B-IBI and its component metrics

List of Figures

Figure 1. Plot of the benthic IBI against time at station TF5.5 for 1985 through 2015.....	11
Figure 2. Plot of total benthic community abundance at station TF5.5 for 1985 through 2015.	12
Figure 3. Plot of total benthic community biomass at station TF5.5 for 1985 through 2015..	13
Figure 4. Plot of pollution sensitive species abundance at station TF5.5 for 1985 through 2015.	14
Figure 5. Plot of pollution indicative species abundance at station TF5.5 for 1985 through 2015.	15
Figure 6. Plot of pollution sensitive species biomass at station TF5.5 for 1985 through 2015.	16
Figure 7. Plot of pollution indicative species biomass at station TF5.5 for 1985 through 2015.	17
Figure 8. Plot of Shannon-Weiner diversity index at station TF5.5 for 1985 through 2015. ...	18
Figure 9. Plot of the benthic IBI against time at station RET5.2 for 1985 through 2015.	19
Figure 10. Plot of total benthic community abundance at station RET5.2 for 1985 through 2015.	20
Figure 11. Plot of total benthic community biomass at station RET5.2 for 1985 through 2015.	21
Figure 12. Plot of pollution sensitive species abundance at station RET5.2 for 1985 through 2015.	22
Figure 13. Plot of pollution indicative species abundance at station RET5.2 for 1985 through 2015.	23
Figure 14. Plot of pollution sensitive species biomass at station RET5.2 for 1985 through 2015.	24
Figure 15. Plot of pollution indicative species biomass at station RET5.2 for 1985 through 2015.	25
Figure 16. Plot of Shannon-Weiner diversity index at station RET5.2 for 1985 through 2015.	26
Figure 17. Plot of the benthic IBI against time at station LE5.1 for 1985 through 2015.....	27
Figure 18. Plot of total benthic community abundance at station LE5.1 for 1985 through 2015.	28
Figure 19. Plot of total benthic community biomass at station LE5.1 for 1985 through 2015.	29
Figure 20. Plot of pollution sensitive species abundance at station LE5.1 for 1985 through 2015.	30

Figure 21. Plot of pollution indicative species abundance at station LE5.1 for 1985 through 2015.	31
Figure 22. Plot of pollution sensitive species biomass at station LE5.1 for 1985 through 2015.	32
Figure 23. Plot of pollution indicative species biomass at station LE5.1 for 1985 through 2015.	33
Figure 24. Plot of Shannon-Weiner diversity index at station LE5.1 for 1985 through 2015. .	34
Figure 25. Plot of the benthic IBI against time at station LE5.2 for 1985 through 2015.	35
Figure 26. Plot of total benthic community abundance at station LE5.2 for 1985 through 2015.	36
Figure 27. Plot of total benthic community biomass at station LE5.2 for 1985 through 2015.	37
Figure 28. Plot of pollution sensitive species abundance at station LE5.2 for 1985 through 2015.	38
Figure 29. Plot of pollution indicative species abundance at station LE5.2 for 1985 through 2015.	39
Figure 30. Plot of pollution sensitive species biomass at station LE5.2 for 1985 through 2015.	40
Figure 31. Plot of pollution indicative species biomass at station LE5.2 for 1985 through 2015.	41
Figure 32. Plot of Shannon-Weiner diversity index at station LE5.2 for 1985 through 2015. .	42
Figure 33. Plot of the benthic IBI against time at station LE5.4 for 1985 through 2015.	43
Figure 34. Plot of total benthic community abundance at station LE5.4 for 1985 through 2015.	44
Figure 35. Plot of total benthic community biomass at station LE5.4 for 1985 through 2015.	45
Figure 36. Plot of pollution sensitive species abundance at station LE5.4 for 1985 through 2015.	46
Figure 37. Plot of pollution indicative species abundance at station LE5.4 for 1985 through 2015.	47
Figure 38. Plot of pollution sensitive species biomass at station LE5.4 for 1985 through 2015.	48
Figure 39. Plot of pollution indicative species biomass at station LE5.4 for 1985 through 2015.	49
Figure 40. Plot of Shannon-Weiner diversity index at station LE5.4 for 1985 through 2015. .	50
Figure 41. Plot of the benthic IBI against time at station SBE2 for 1985 through 2015.	51
Figure 42. Plot of total benthic community abundance at station SBE2 for 1985 through 2015.	52

Figure 43. Plot of total benthic community biomass at station SBE2 for 1985 through 2015.	53
Figure 44. Plot of pollution sensitive species abundance at station SBE2 for 1985 through 2015.	54
Figure 45. Plot of pollution indicative species abundance at station SBE2 for 1985 through 2015.	55
Figure 46. Plot of pollution sensitive species biomass at station SBE2 for 1985 through 2015.	56
Figure 47. Plot of pollution indicative species biomass at station SBE2 for 1985 through 2015.	57
Figure 48. Plot of Shannon-Weiner diversity index at station SBE2 for 1985 through 2015.	58
Figure 49. Plot of the benthic IBI against time at station SBE5 for 1985 through 2015.	59
Figure 50. Plot of total benthic community abundance at station SBE5 for 1985 through 2015.	60
Figure 51. Plot of total benthic community biomass at station SBE5 for 1985 through 2015.	61
Figure 52. Plot of pollution sensitive species abundance at station SBE5 for 1985 through 2015.	62
Figure 53. Plot of pollution indicative species abundance at station SBE5 for 1985 through 2015.	63
Figure 54. Plot of pollution sensitive species biomass at station SBE5 for 1985 through 2015.	64
Figure 55. Plot of pollution indicative species biomass at station SBE5 for 1985 through 2015.	65
Figure 56. Plot of Shannon-Weiner diversity index at station SBE5 for 1985 through 2015.	66
Figure 57. Plot of the benthic IBI against time at station TF4.2 for 1985 through 2015.	67
Figure 58. Plot of total benthic community abundance at station TF4.2 for 1985 through 2015.	68
Figure 59. Plot of total benthic community biomass at station TF4.2 for 1985 through 2015.	69
Figure 60. Plot of pollution sensitive species abundance at station TF4.2 for 1985 through 2015.	70
Figure 61. Plot of pollution indicative species abundance at station TF4.2 for 1985 through 2015.	71
Figure 62. Plot of pollution sensitive species biomass at station TF4.2 for 1985 through 2015.	72
Figure 63. Plot of pollution indicative species biomass at station TF4.2 for 1985 through 2015.	73

Figure 64. Plot of Shannon-Weiner diversity index at station TF4.2 for 1985 through 2015. .	74
Figure 65. Plot of the benthic IBI against time at station RET4.3 for 1985 through 2015.	75
Figure 66. Plot of total benthic community abundance at station RET4.3 for 1985 through 2015.	76
Figure 67. Plot of total benthic community biomass at station RET4.3 for 1985 through 2015.	77
Figure 68. Plot of pollution sensitive species abundance at station RET4.3 for 1985 through 2015.	78
Figure 69. Plot of pollution indicative species abundance at station RET4.3 for 1985 through 2015.	79
Figure 70. Plot of pollution sensitive species biomass at station RET4.3 for 1985 through 2015.	80
Figure 71. Plot of pollution indicative species biomass at station RET4.3 for 1985 through 2015.	81
Figure 72. Plot of Shannon-Weiner diversity index at station RET4.3 for 1985 through 2015.	82
Figure 73. Plot of the benthic IBI against time at station LE4.1 for 1985 through 2015.	83
Figure 74. Plot of total benthic community abundance at station LE4.1 for 1985 through 2015.	84
Figure 75. Plot of total benthic community biomass at station LE4.1 for 1985 through 2015.	85
Figure 76. Plot of pollution sensitive species abundance at station LE4.1 for 1985 through 2015.	86
Figure 77. Plot of pollution indicative species abundance at station LE4.1 for 1985 through 2015.	87
Figure 78. Plot of pollution sensitive species biomass at station LE4.1 for 1985 through 2015.	88
Figure 79. Plot of pollution indicative species biomass at station LE4.1 for 1985 through 2015.	89
Figure 80. Plot of Shannon-Weiner diversity index at station LE4.1 for 1985 through 2015. .	90
Figure 81. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2015.	91
Figure 82. Plot of total benthic community abundance at station LE4.3 for 1985 through 2015.	92
Figure 83. Plot of total benthic community biomass at station LE4.3 for 1985 through 2015.	93
Figure 84. Plot of pollution sensitive species abundance at station LE4.3 for 1985 through 2015.	94

Figure 85. Plot of pollution indicative species abundance at station LE4.3 for 1985 through 2015.	95
Figure 86. Plot of pollution sensitive species biomass at station LE4.3 for 1985 through 2015.	96
Figure 87. Plot of pollution indicative species biomass at station LE4.3 for 1985 through 2015.	97
Figure 88. Plot of Shannon-Weiner diversity index at station LE4.3 for 1985 through 2015. .	98
Figure 89. Plot of the benthic IBI against time at station LE4.3B for 1985 through 2015.....	99
Figure 90. Plot of total benthic community abundance at station LE4.3B for 1985 through 2015.	100
Figure 91. Plot of total benthic community biomass at station LE4.3B for 1985 through 2015.	101
Figure 92. Plot of pollution sensitive species abundance at station LE4.3B for 1985 through 2015.	102
Figure 93. Plot of pollution indicative species abundance at station LE4.3B for 1985 through 2015.	103
Figure 94. Plot of pollution sensitive species biomass at station LE4.3B for 1985 through 2015.	104
Figure 95. Plot of pollution indicative species biomass at station LE4.3B for 1985 through 2015.	105
Figure 96. Plot of Shannon-Weiner diversity index at station LE4.3B for 1985 through 2015.	106
Figure 97. Plot of the benthic IBI against time at station TF3.3 for 1985 through 2015.....	107
Figure 98. Plot of total benthic community abundance at station TF3.3 for 1985 through 2015.	108
Figure 99. Plot of total benthic community biomass at station TF3.3 for 1985 through 2015.	109
Figure 100. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2015.	110
Figure 101. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2015.	111
Figure 102. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2015.	112
Figure 103. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2015.	113

Figure 104. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2015.	114
Figure 105. Plot of the benthic IBI against time at station RET3.1 for 1985 through 2015. ...	115
Figure 106. Plot of total benthic community abundance at station RET3.1 for 1985 through 2015.	116
Figure 107. Plot of total benthic community biomass at station RET3.1 for 1985 through 2015.	117
Figure 108. Plot of pollution sensitive species abundance at station RET3.1 for 1985 through 2015.	118
Figure 109. Plot of pollution indicative species abundance at station RET3.1 for 1985 through 2015.	119
Figure 110. Plot of pollution sensitive species biomass at station RET3.1 for 1985 through 2015.	120
Figure 111. Plot of pollution indicative species biomass at station RET3.1 for 1985 through 2015.	121
Figure 112. Plot of Shannon-Weiner diversity index at station RET3.1 for 1985 through 2015.	122
Figure 113. Plot of the benthic IBI against time at station LE3.2 for 1985 through 2015.	123
Figure 114. Plot of total benthic community abundance at station LE3.2 for 1985 through 2015.	124
Figure 115. Plot of total benthic community biomass at station LE3.2 for 1985 through 2015.	125
Figure 116. Plot of pollution sensitive species abundance at station LE3.2 for 1985 through 2015.	126
Figure 117. Plot of pollution indicative species abundance at station LE3.2 for 1985 through 2015.	127
Figure 118. Plot of pollution sensitive species biomass at station LE3.2 for 1985 through 2015.	128
Figure 119. Plot of pollution indicative species biomass at station LE3.2 for 1985 through 2015.	129
Figure 120. Plot of Shannon-Weiner diversity index at station LE3.2 for 1985 through 2015.	130
Figure 121. Plot of the benthic IBI against time at station LE3.4 for 1985 through 2015.	131
Figure 122. Plot of total benthic community abundance at station LE3.4 for 1985 through 2015.	132

Figure 123. Plot of total benthic community biomass at station LE3.4 for 1985 through 2015.	133
Figure 124. Plot of pollution sensitive species abundance at station LE3.4 for 1985 through 2015.	134
Figure 125. Plot of pollution indicative species abundance at station LE3.4 for 1985 through 2015.	135
Figure 126. Plot of pollution sensitive species biomass at station LE3.4 for 1985 through 2015.	136
Figure 127. Plot of pollution indicative species biomass at station LE3.4 for 1985 through 2015.	137
Figure 128. Plot of Shannon-Weiner diversity index at station LE3.4 for 1985 through 2015.	138
Figure 129. Plot of the benthic IBI against time at station CB5.4 for 1985 through 2015.	139
Figure 130. Plot of total benthic community abundance at station CB5.4 for 1985 through 2015.	140
Figure 131. Plot of total benthic community biomass at station CB5.4 for 1985 through 2015.	141
Figure 132. Plot of pollution sensitive species abundance at station CB5.4 for 1985 through 2015.	142
Figure 133. Plot of pollution indicative species abundance at station CB5.4 for 1985 through 2015.	143
Figure 134. Plot of pollution sensitive species biomass at station CB5.4 for 1985 through 2015.	144
Figure 135. Plot of pollution indicative species biomass at station CB5.4 for 1985 through 2015.	145
Figure 136. Plot of Shannon-Weiner diversity index at station CB5.4 for 1985 through 2015.	146
Figure 137. Plot of the benthic IBI against time at station CB6.1 for 1985 through 2015.	147
Figure 138. Plot of total benthic community abundance at station CB6.1 for 1985 through 2015.	148
Figure 139. Plot of total benthic community biomass at station CB6.1 for 1985 through 2015.	149
Figure 140. Plot of pollution sensitive species abundance at station CB6.1 for 1985 through 2015.	150
Figure 141. Plot of pollution indicative species abundance at station CB6.1 for 1985 through 2015.	151

Figure 142. Plot of pollution sensitive species biomass at station CB6.1 for 1985 through 2015.	152
Figure 143. Plot of pollution indicative species biomass at station CB6.1 for 1985 through 2015.	153
Figure 144. Plot of Shannon-Weiner diversity index at station CB6.1 for 1985 through 2015.	154
Figure 145. Plot of the benthic IBI against time at station CB6.4 for 1985 through 2015.	155
Figure 146. Plot of total benthic community abundance at station CB6.4 for 1985 through 2015.	156
Figure 147. Plot of total benthic community biomass at station CB6.4 for 1985 through 2015.	157
Figure 148. Plot of pollution sensitive species abundance at station CB6.4 for 1985 through 2015.	158
Figure 149. Plot of pollution indicative species abundance at station CB6.4 for 1985 through 2015.	159
Figure 150. Plot of pollution sensitive species biomass at station CB6.4 for 1985 through 2015.	160
Figure 151. Plot of pollution indicative species biomass at station CB6.4 for 1985 through 2015.	161
Figure 152. Plot of Shannon-Weiner diversity index at station CB6.4 for 1985 through 2015.	162
Figure 153. Plot of the benthic IBI against time at station CB7.3E for 1985 through 2015. ...	163
Figure 154. Plot of total benthic community abundance at station CB7.3E for 1985 through 2015.	164
Figure 155. Plot of total benthic community biomass at station CB7.3E for 1985 through 2015.	165
Figure 156. Plot of pollution sensitive species abundance at station CB7.3E for 1985 through 2015.	166
Figure 157. Plot of pollution indicative species abundance at station CB7.3E for 1985 through 2015.	167
Figure 158. Plot of pollution sensitive species biomass at station CB7.3E for 1985 through 2015.	168
Figure 159. Plot of pollution indicative species biomass at station CB7.3E for 1985 through 2015.	169
Figure 160. Plot of Shannon-Weiner diversity index at station CB7.3E for 1985 through 2015.	170

Figure 161. Plot of the benthic IBI against time at station CB8.1 for 1985 through 2015.	171
Figure 162. Plot of total benthic community abundance at station CB8.1 for 1985 through 2015.	172
Figure 163. Plot of total benthic community biomass at station CB8.1 for 1985 through 2015.	173
Figure 164. Plot of pollution sensitive species abundance at station CB8.1 for 1985 through 2015.	174
Figure 165. Plot of pollution indicative species abundance at station CB8.1 for 1985 through 2015.	175
Figure 166. Plot of pollution sensitive species biomass at station CB8.1 for 1985 through 2015.	176
Figure 167. Plot of pollution indicative species biomass at station CB8.1 for 1985 through 2015.	177
Figure 168. Plot of Shannon-Weiner diversity index at station CB8.1 for 1985 through 2015.	178

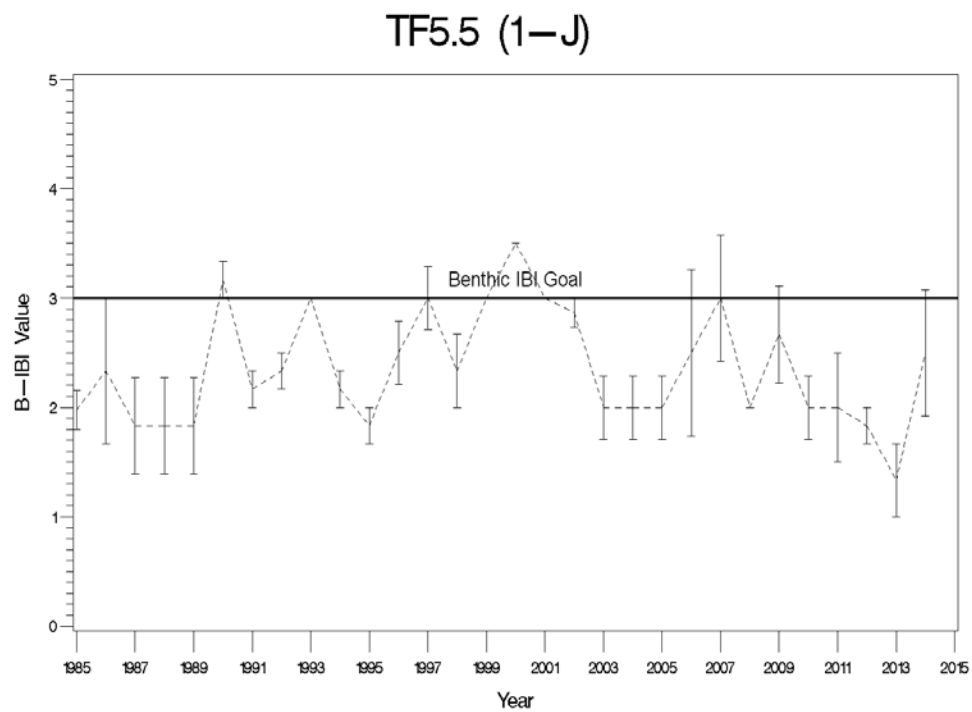


Figure 1. Plot of the benthic IBI against time at station TF5.5 for 1985 through 2015.

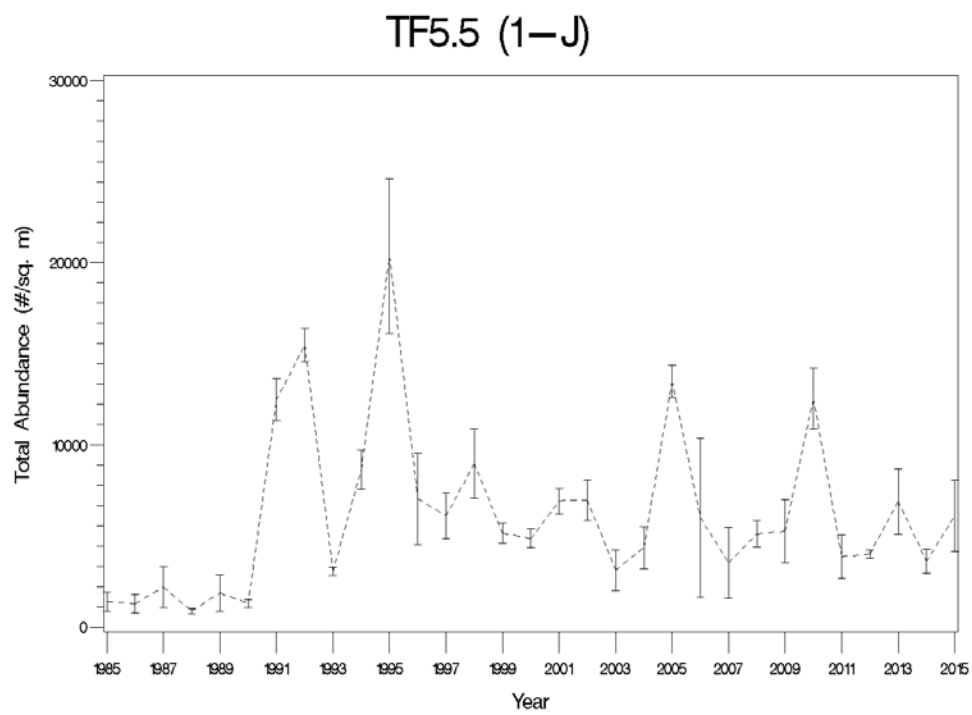


Figure 2. Plot of total benthic community abundance at station TF5.5 for 1985 through 2015.

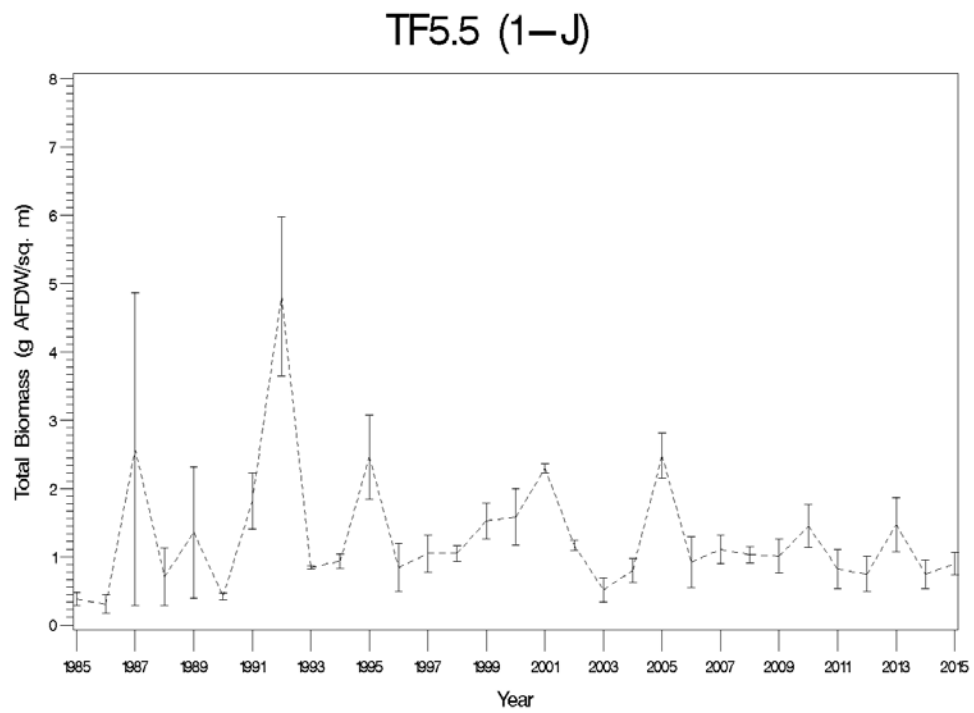


Figure 3. Plot of total benthic community biomass at station TF5.5 for 1985 through 2015.

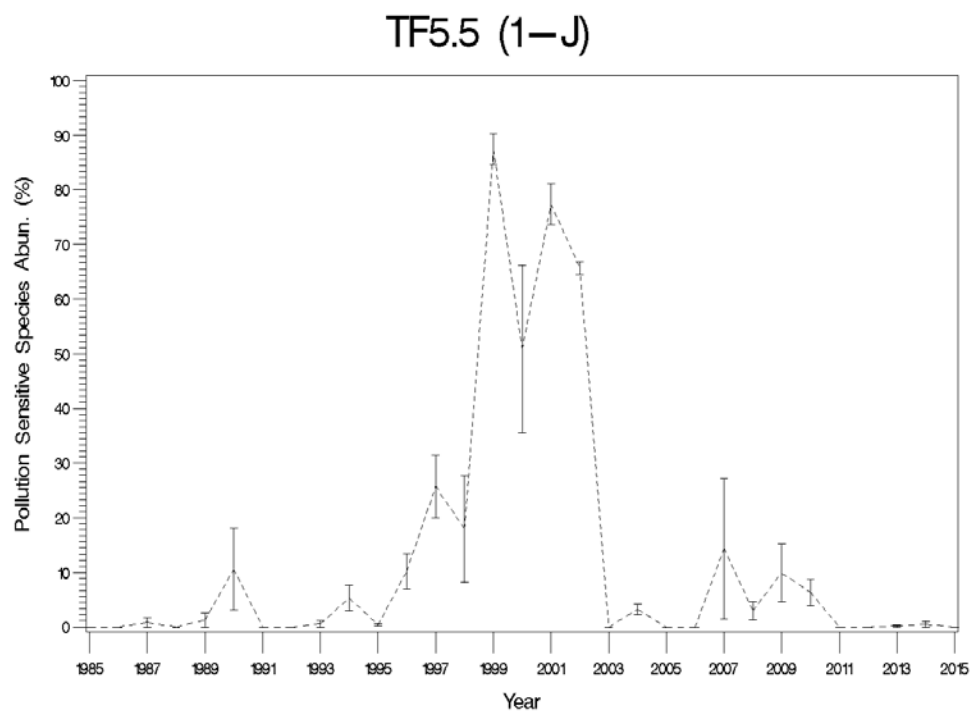


Figure 4. Plot of pollution sensitive species abundance at station TF5.5 for 1985 through 2015.

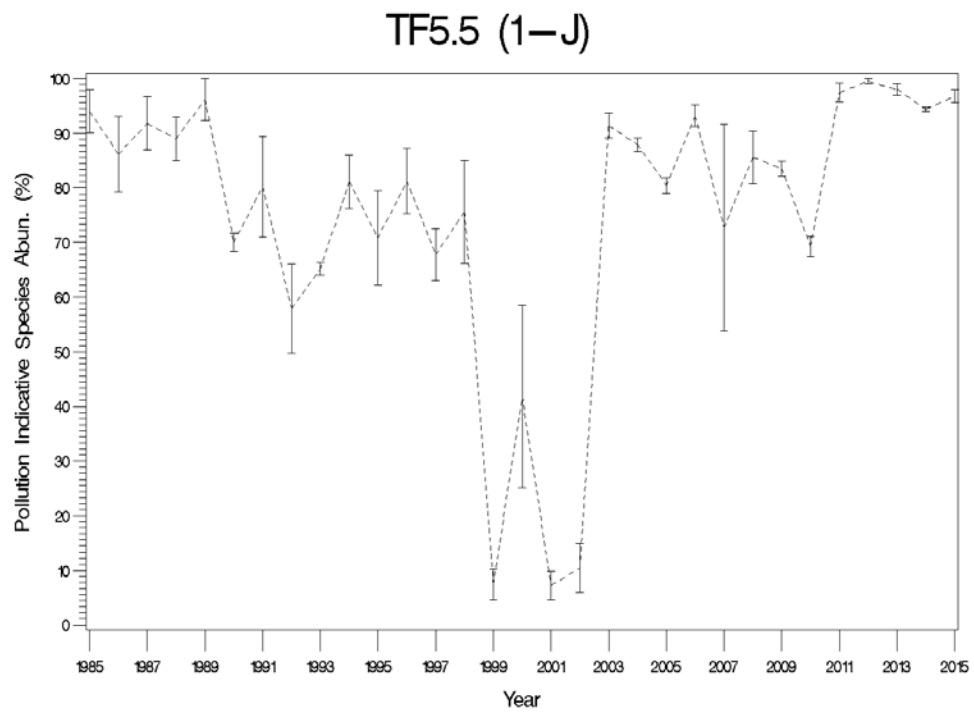


Figure 5. Plot of pollution indicative species abundance at station TF5.5 for 1985 through 2015.

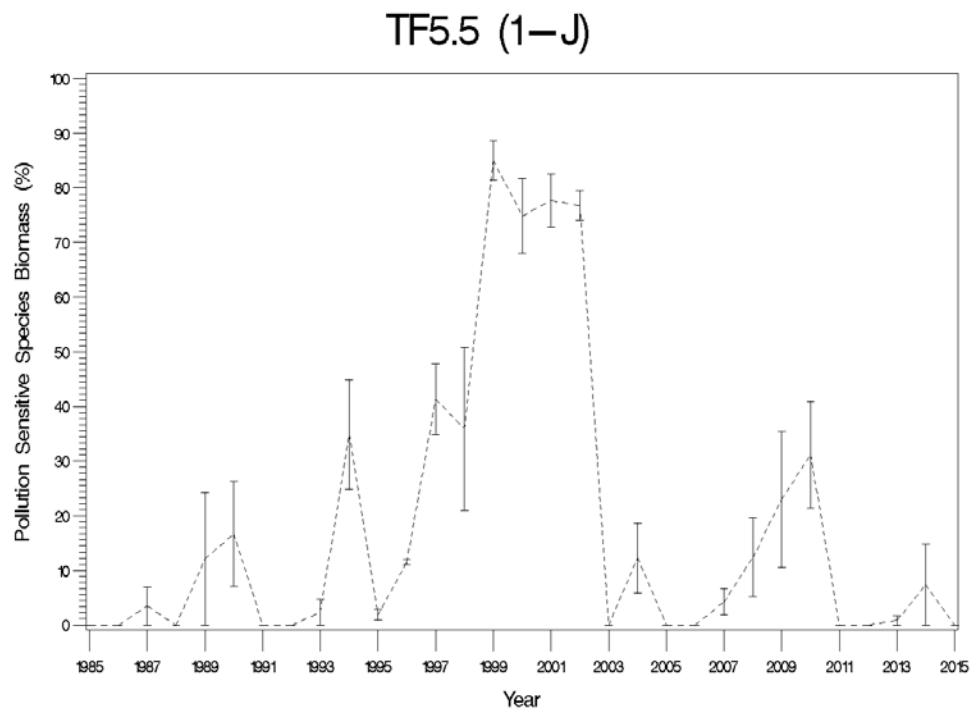


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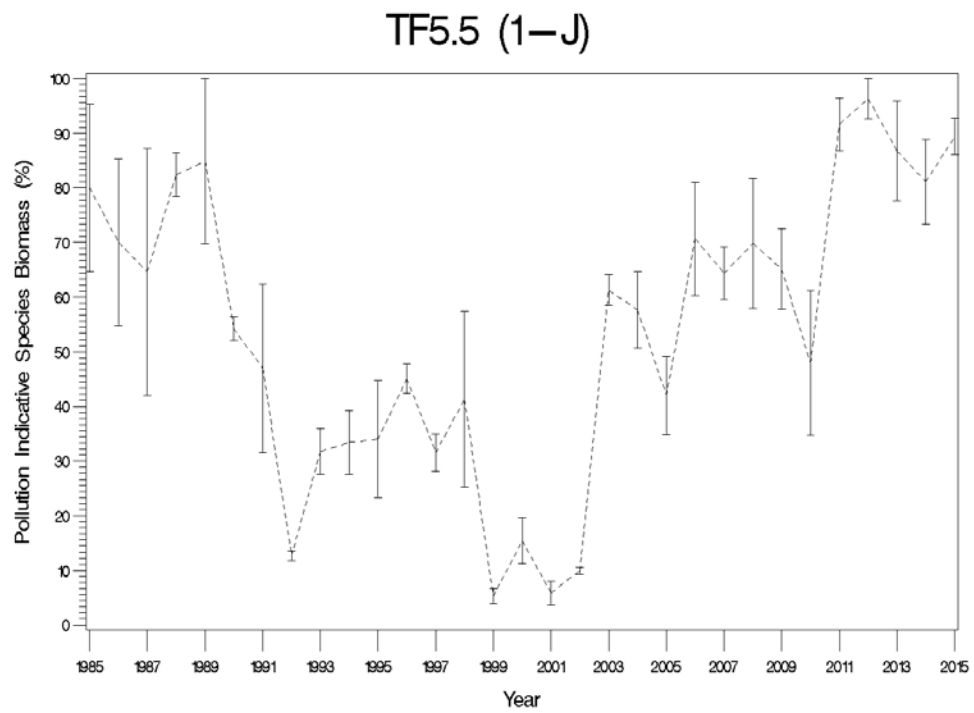


Figure 7. Plot of pollution indicative species biomass at station TF5.5 for 1985 through 2015.

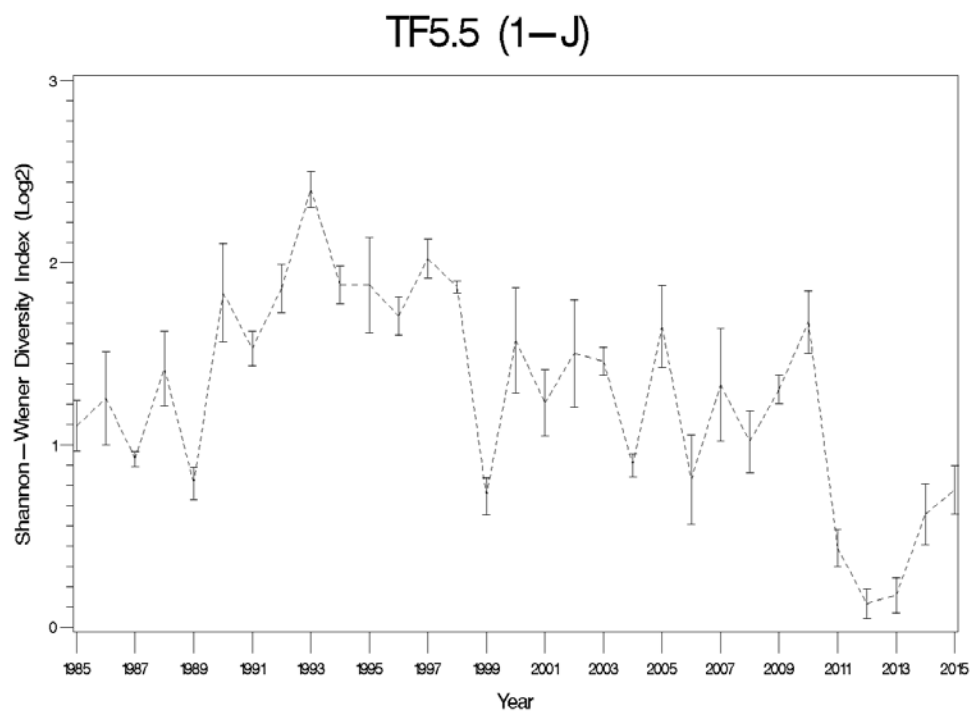


Figure 8. Plot of Shannon-Weiner diversity index at station TF5.5 for 1985 through 2015.

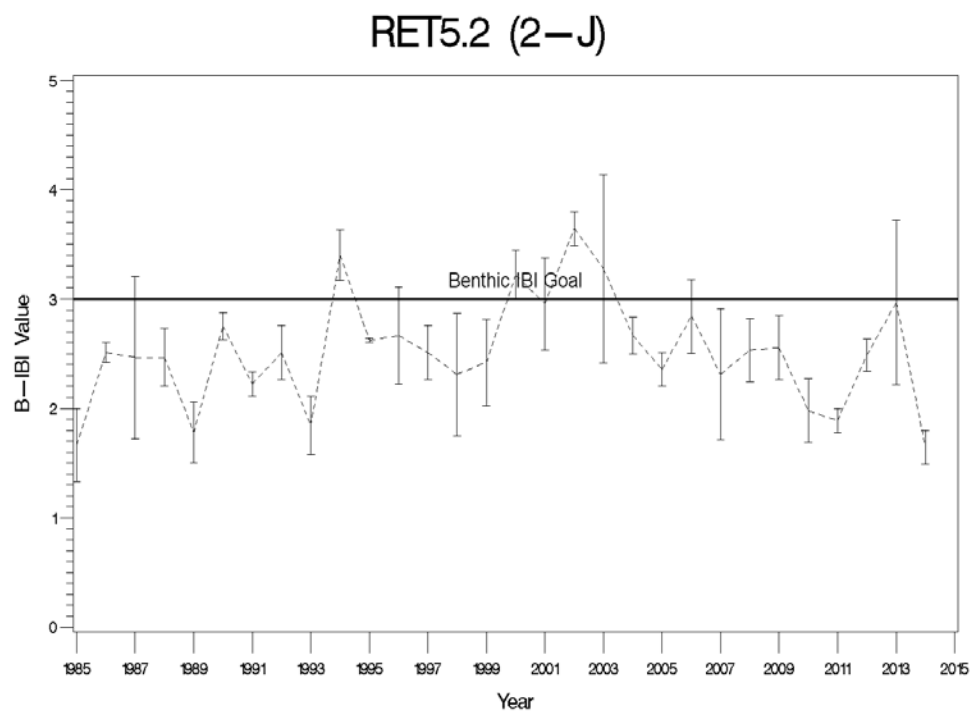


Figure 9. Plot of the benthic IBI against time at station RET5.2 for 1985 through 2015.

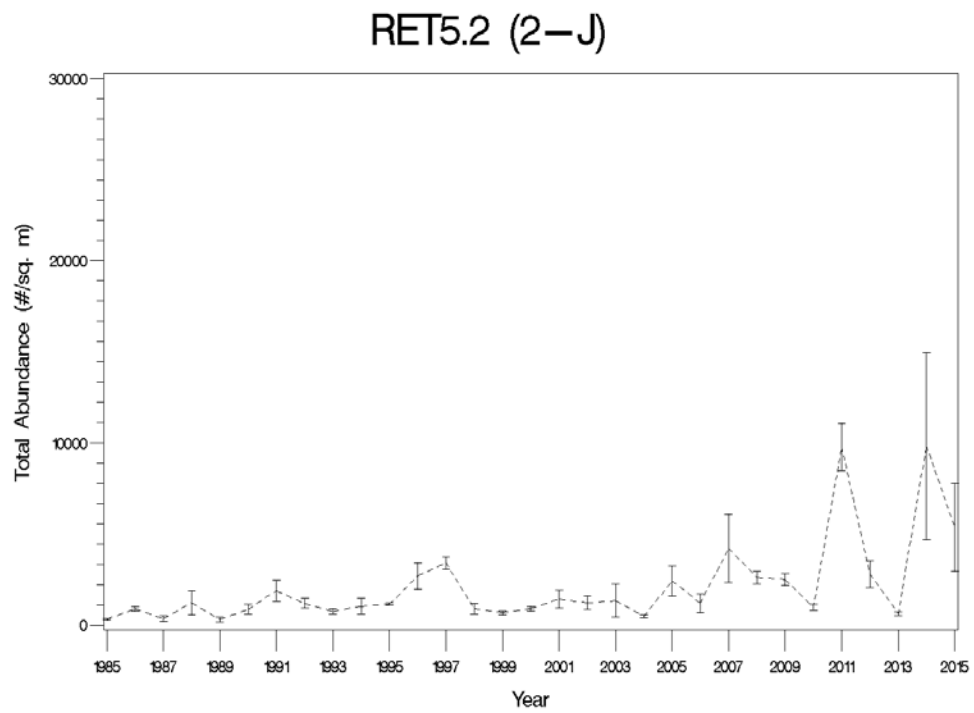


Figure 10. Plot of total benthic community abundance at station RET5.2 for 1985 through 2015.

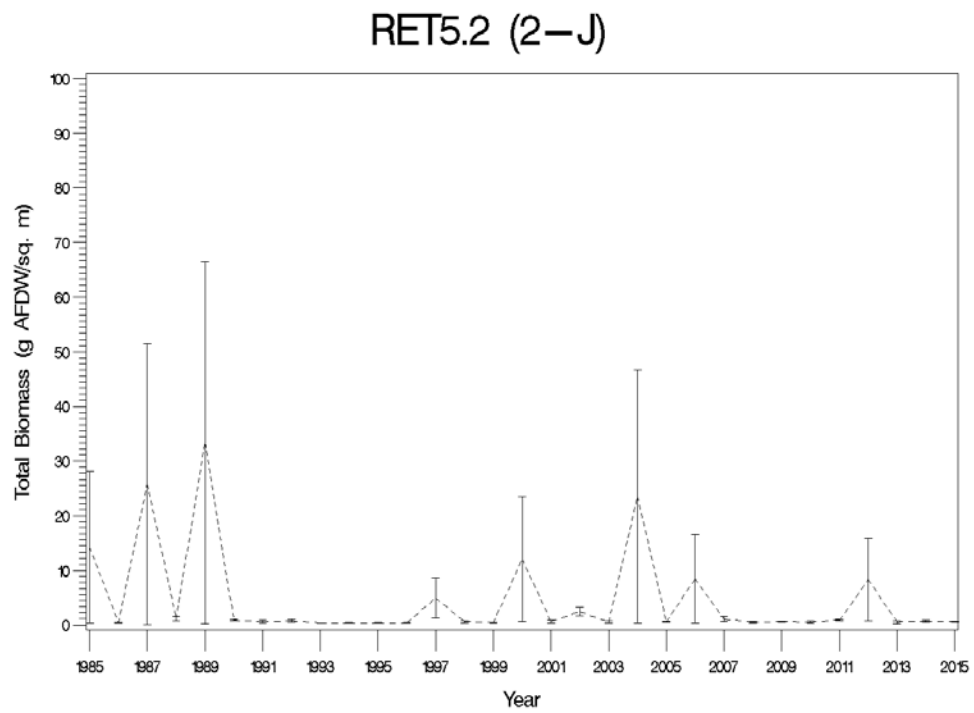


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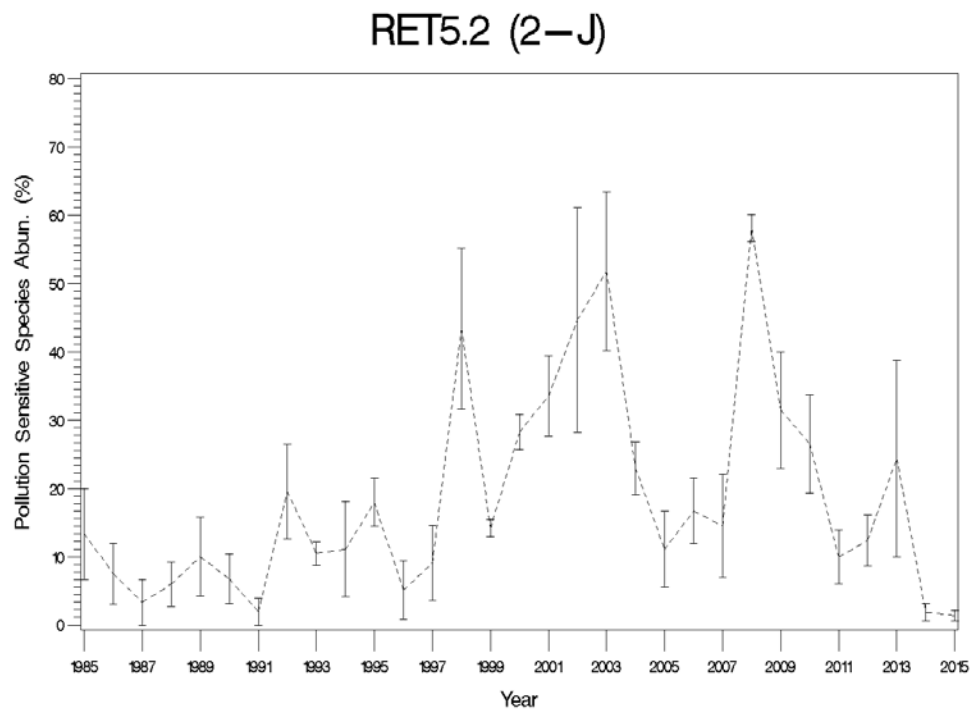


Figure 12. Plot of pollution sensitive species abundance at station RET5.2 for 1985 through 2015.

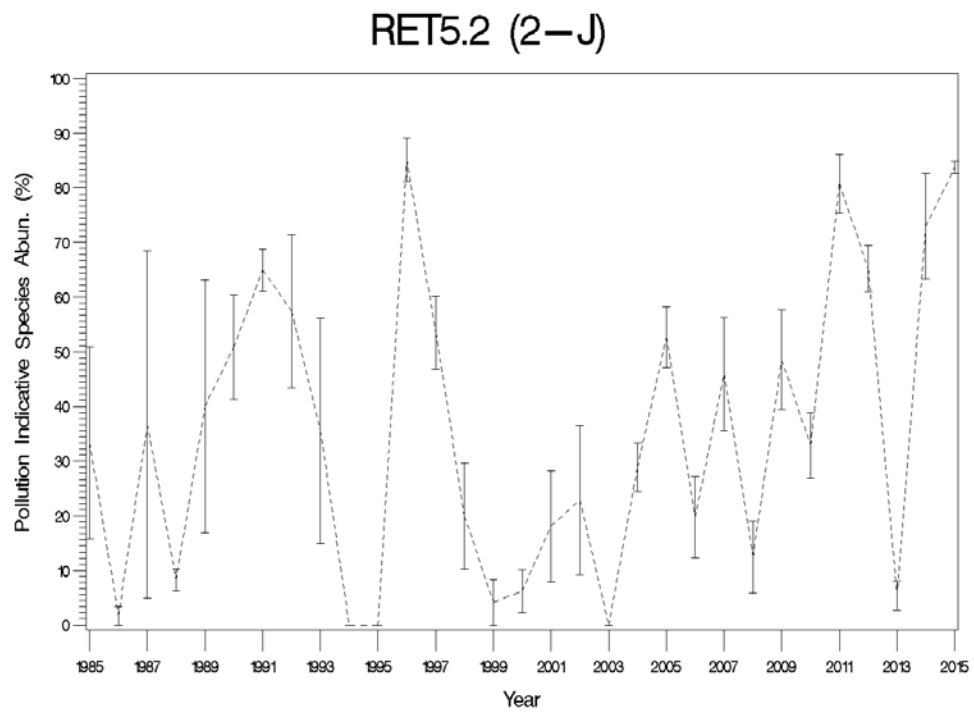


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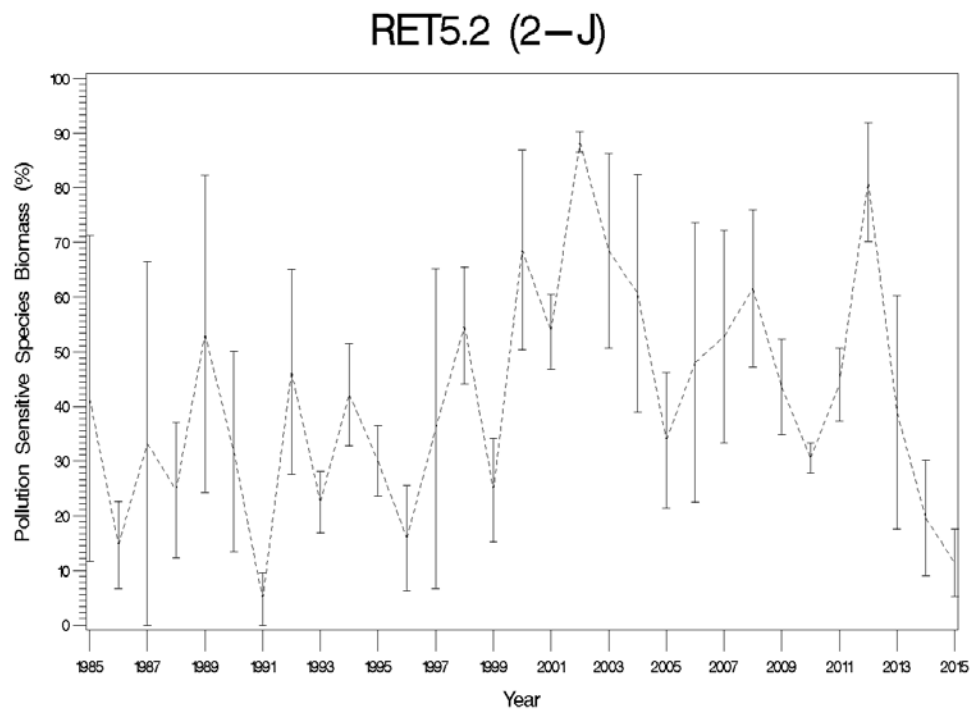


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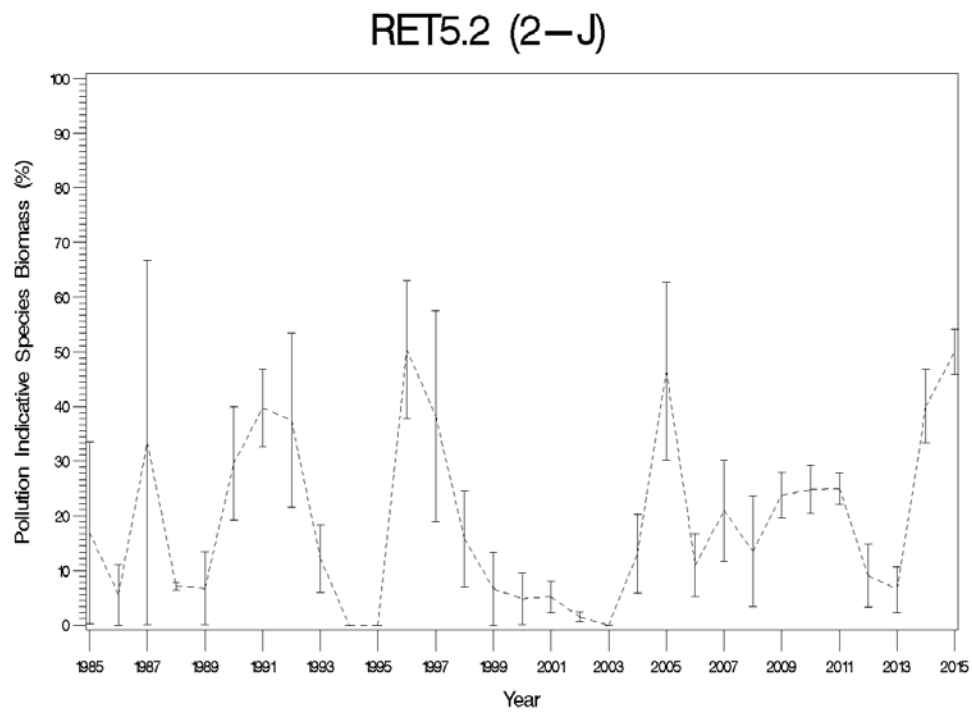


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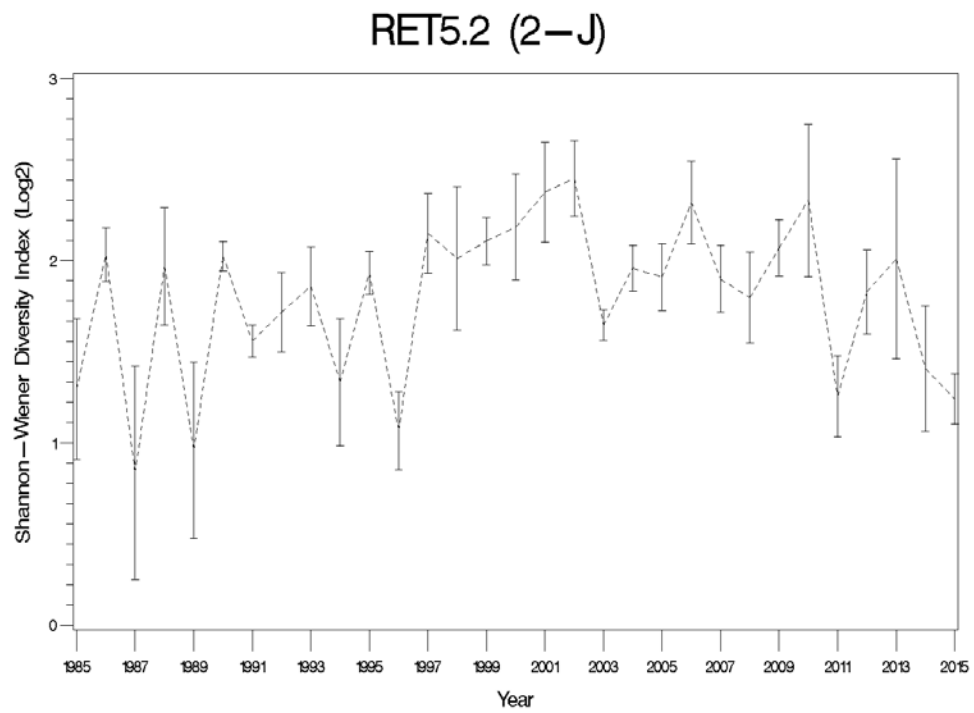


Figure 16. Plot of Shannon-Weiner diversity index at station RET5.2 for 1985 through 2015.

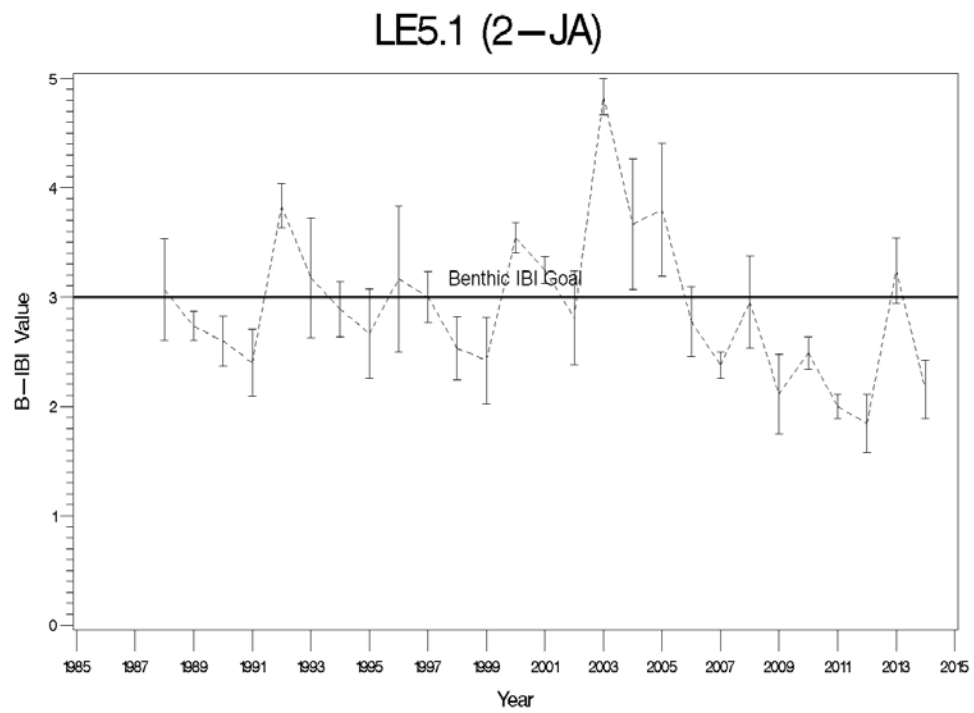


Figure 17. Plot of the benthic IBI against time at station LE5.1 for 1985 through 2015.

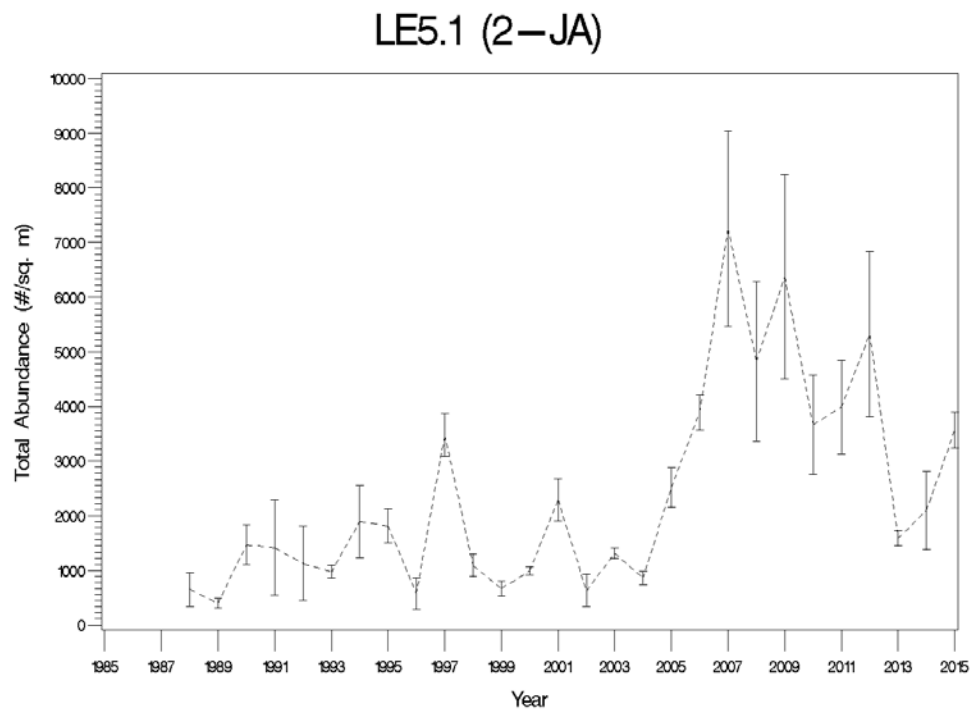


Figure 18. Plot of total benthic community abundance at station LE5.1 for 1985 through 2015.

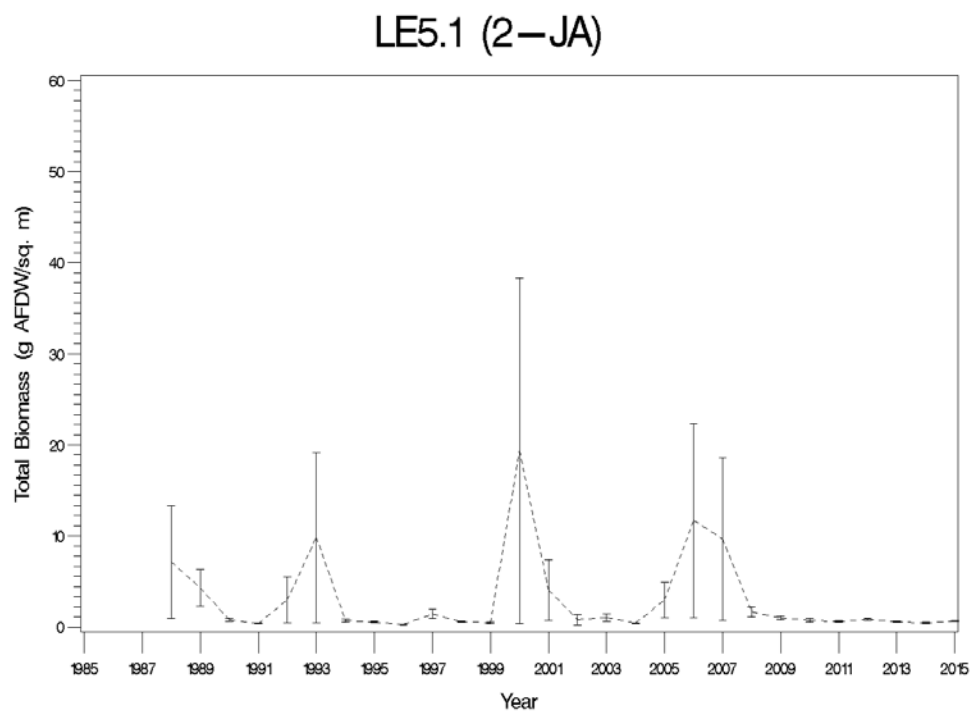


Figure 19. Plot of total benthic community biomass at station LE5.1 for 1985 through 2015.

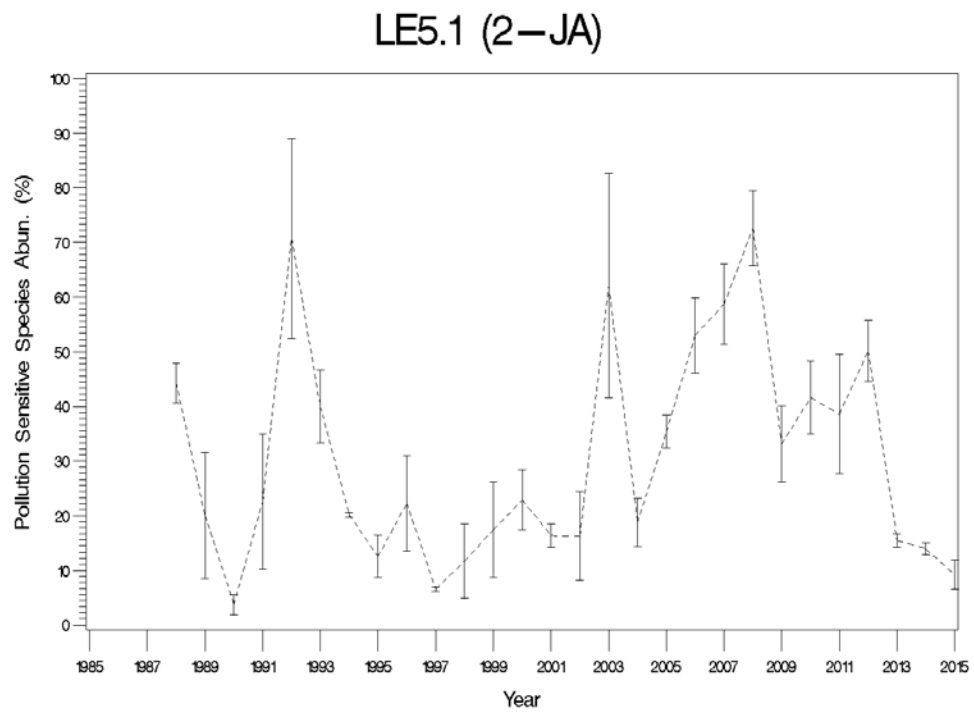


Figure 20. Plot of pollution sensitive species abundance at station LE5.1 for 1985 through 2015.

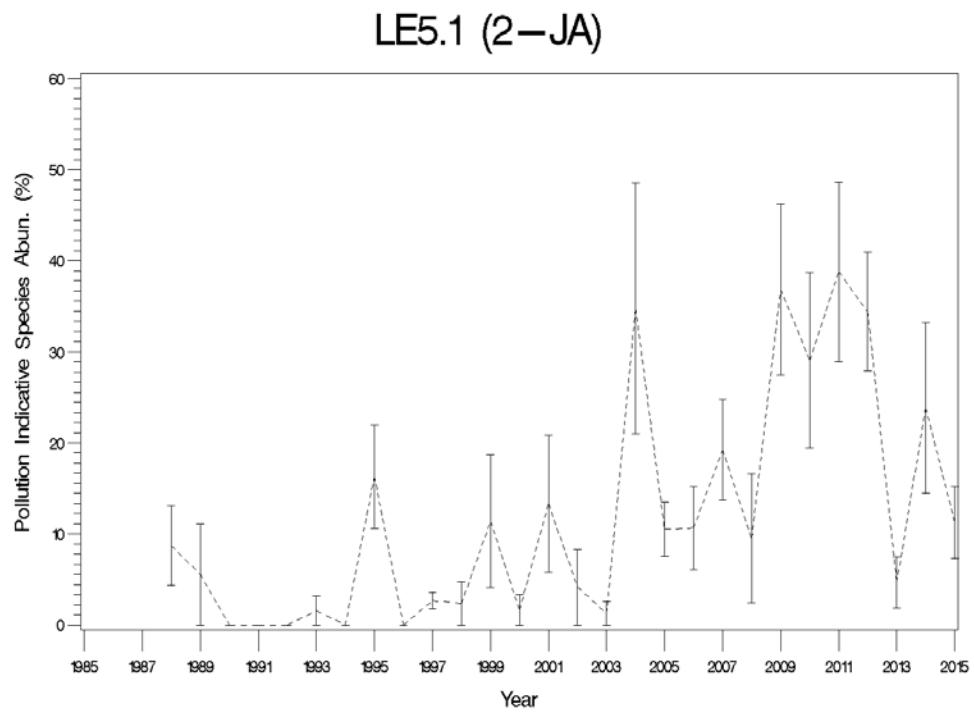


Figure 21. Plot of pollution indicative species abundance at station LE5.1 for 1985 through 2015.

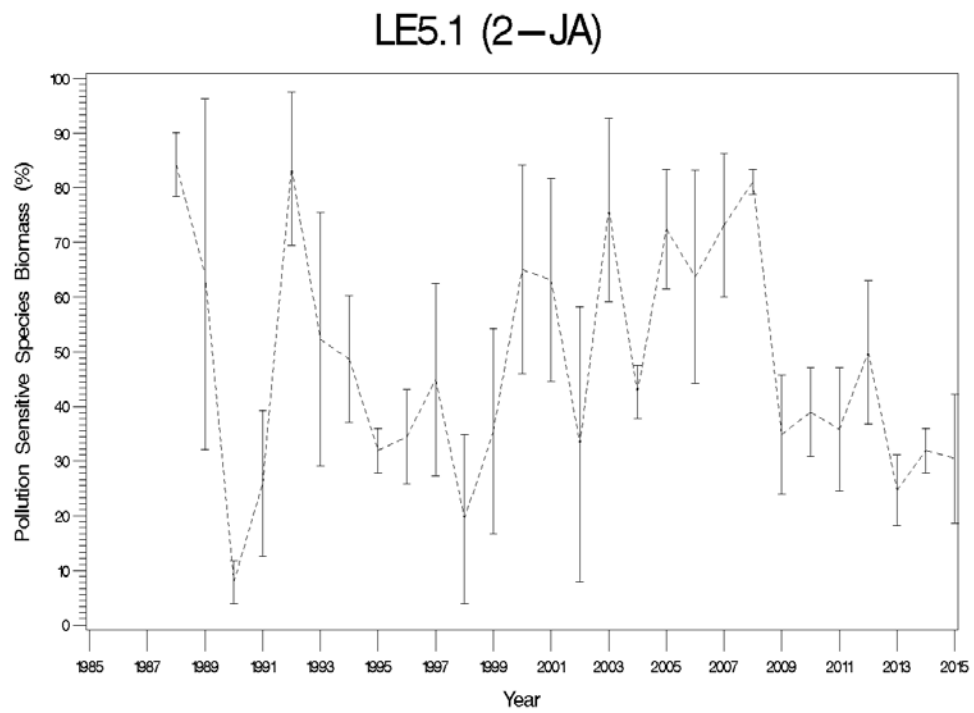


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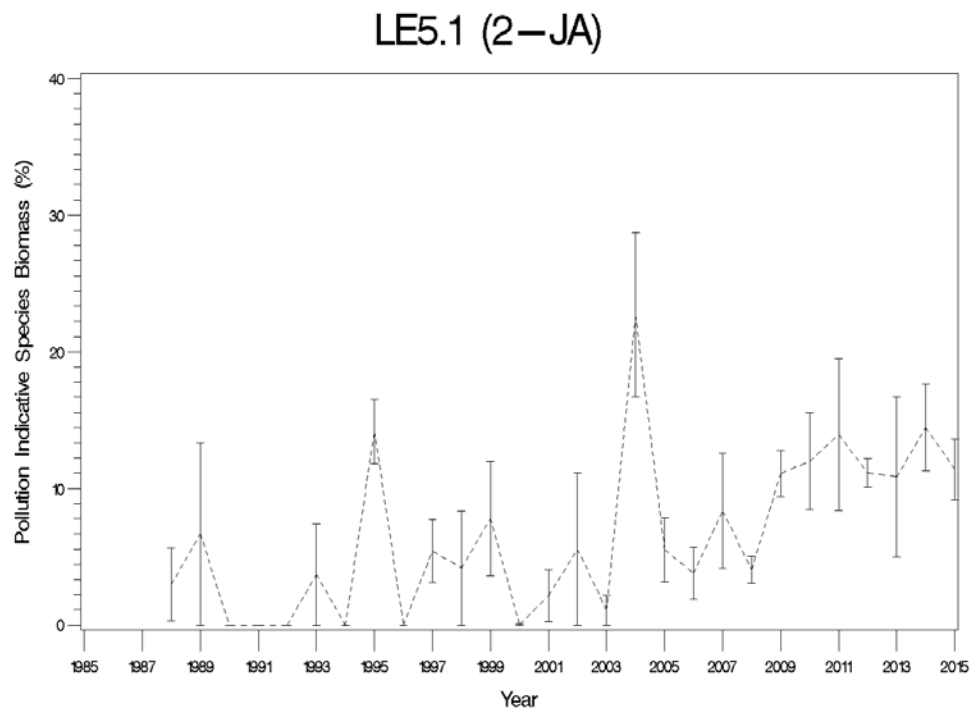


Figure 23. Plot of pollution indicative species biomass at station LE5.1 for 1985 through 2015.

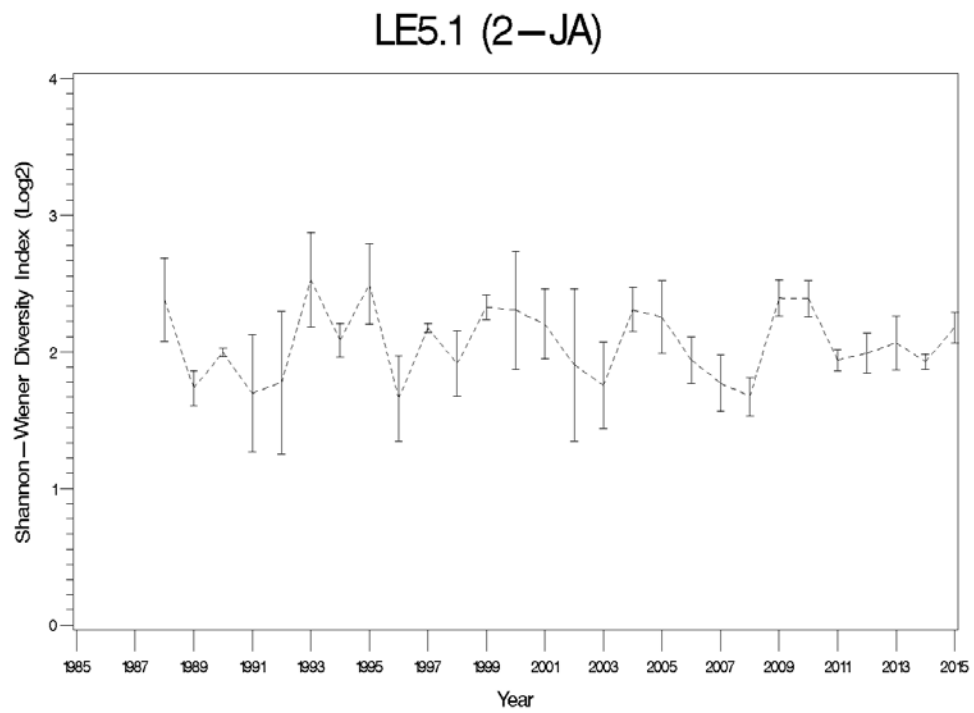


Figure 24. Plot of Shannon-Weiner diversity index at station LE5.1 for 1985 through 2015.

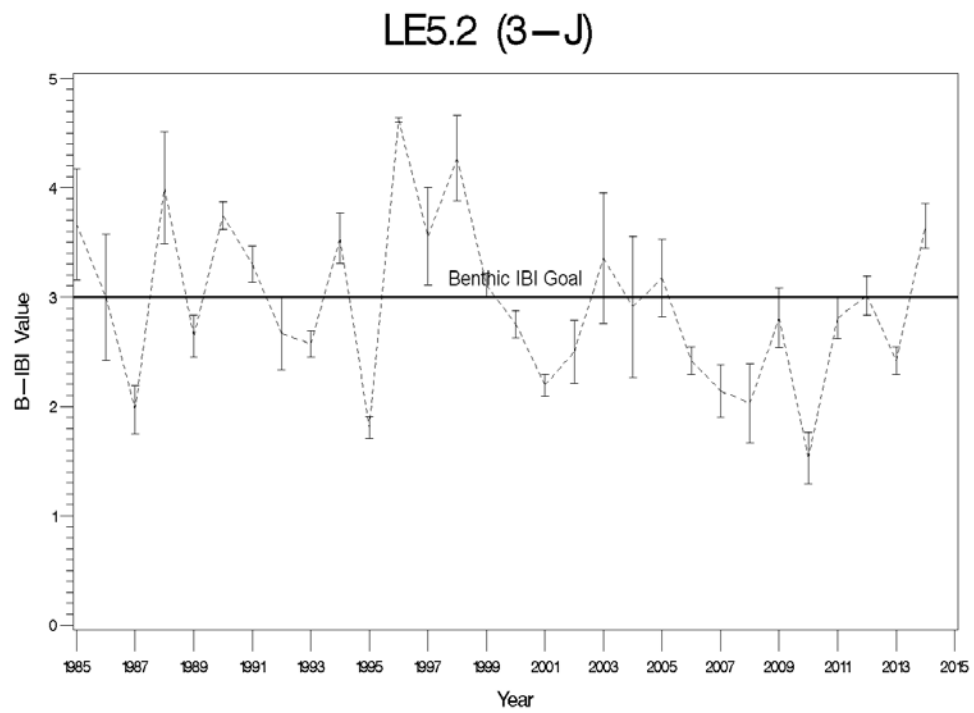


Figure 25. Plot of the benthic IBI against time at station LE5.2 for 1985 through 2015.

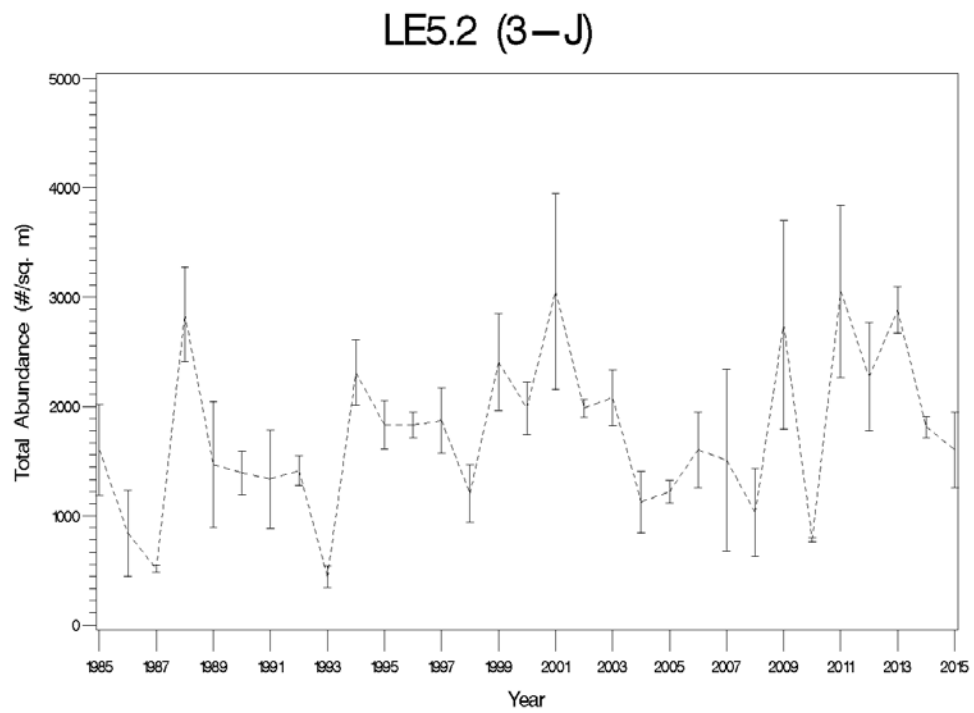


Figure 26. Plot of total benthic community abundance at station LE5.2 for 1985 through 2015.

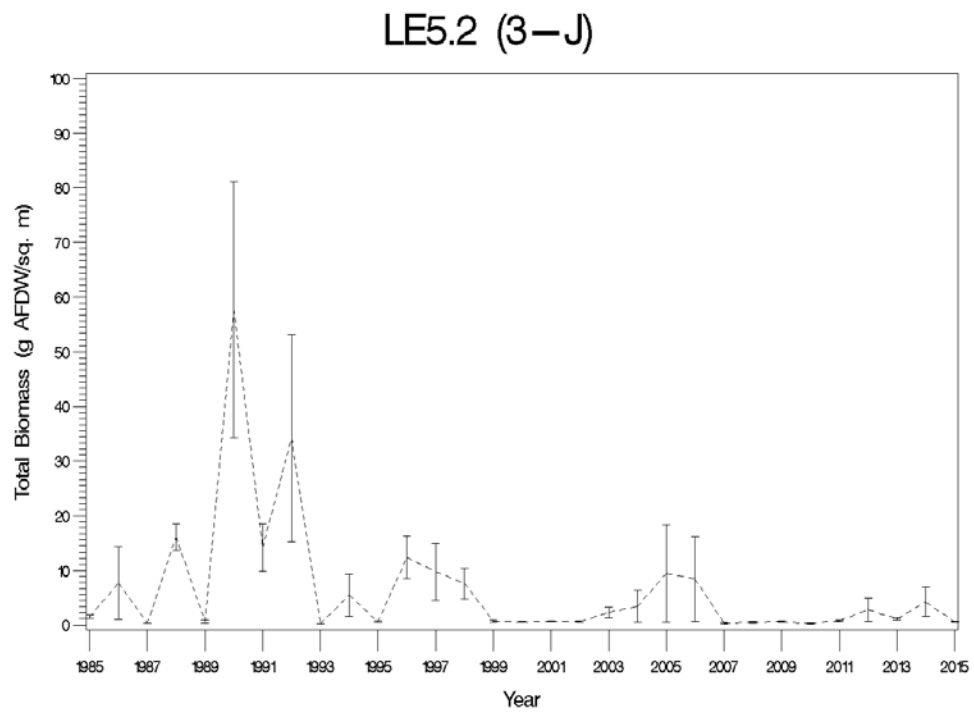


Figure 27. Plot of total benthic community biomass at station LE5.2 for 1985 through 2015.

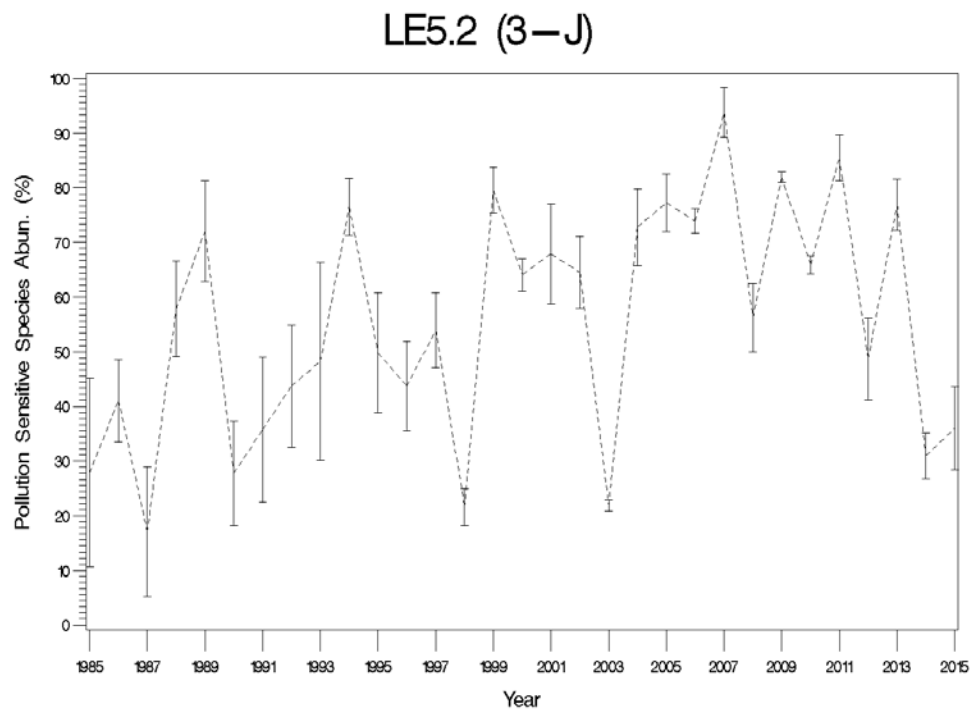


Figure 28. Plot of pollution sensitive species abundance at station LE5.2 for 1985 through 2015.

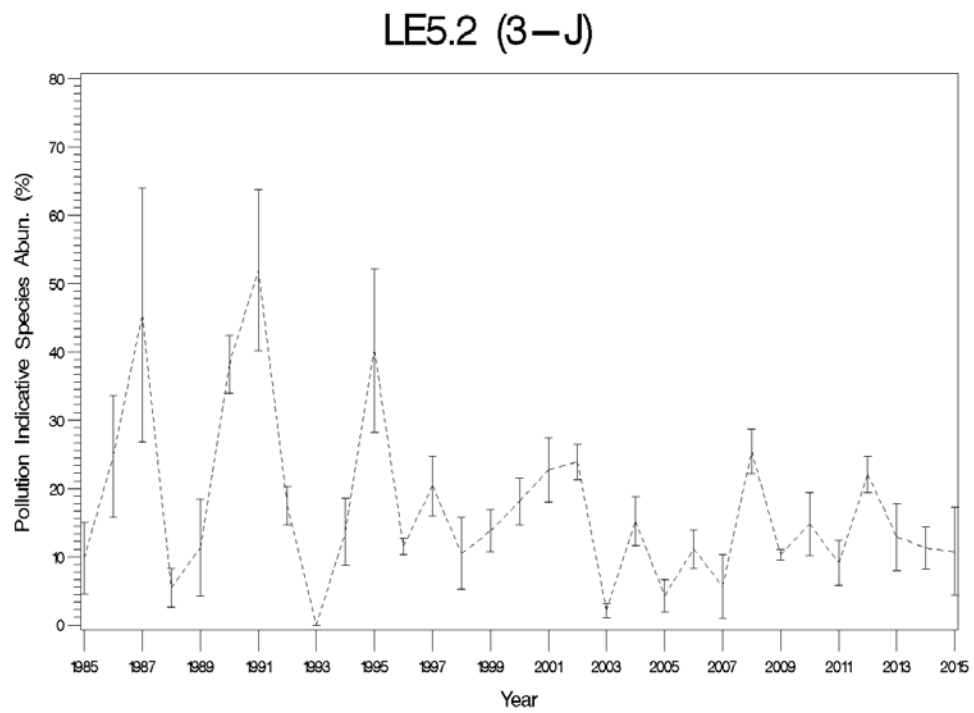


Figure 29. Plot of pollution indicative species abundance at station LE5.2 for 1985 through 2015.

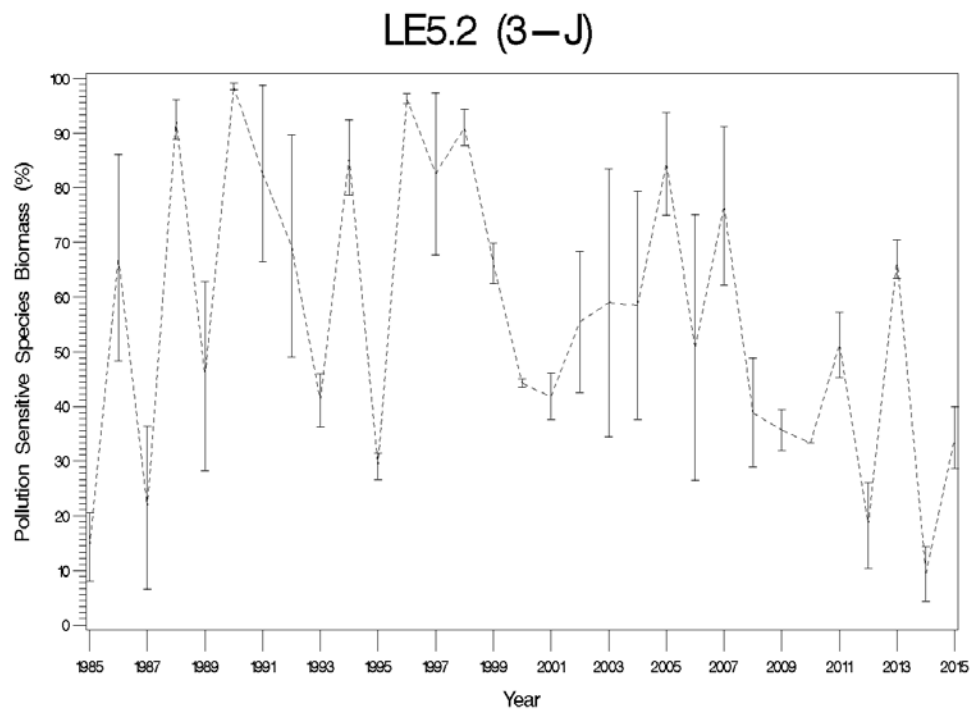


Figure 30. Plot of pollution sensitive species biomass at station LE5.2 for 1985 through 2015.

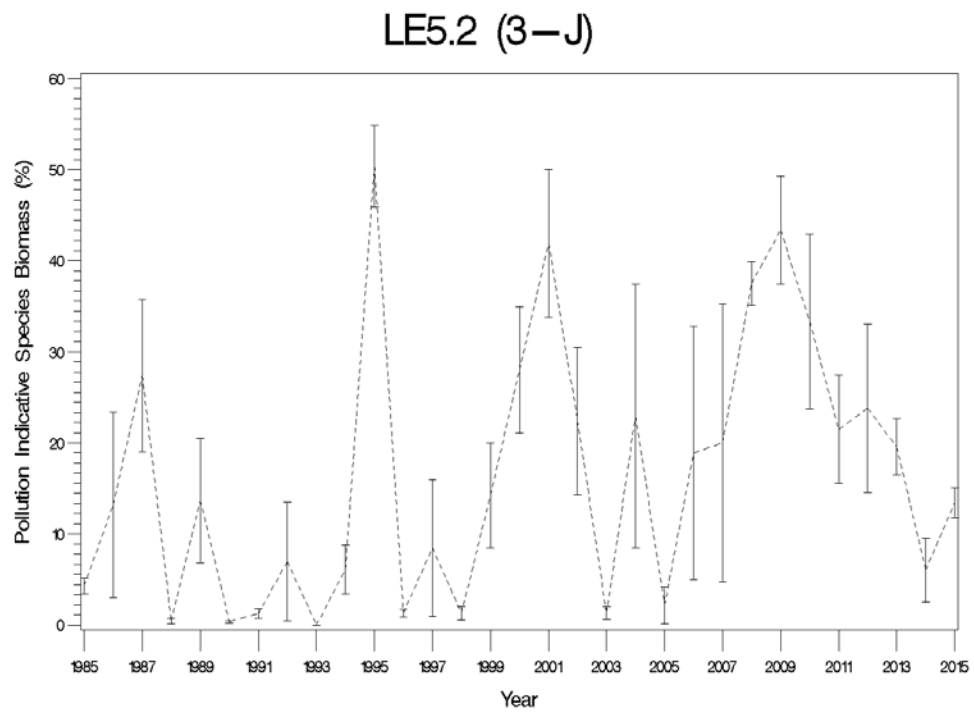


Figure 31. Plot of pollution indicative species biomass at station LE5.2 for 1985 through 2015.

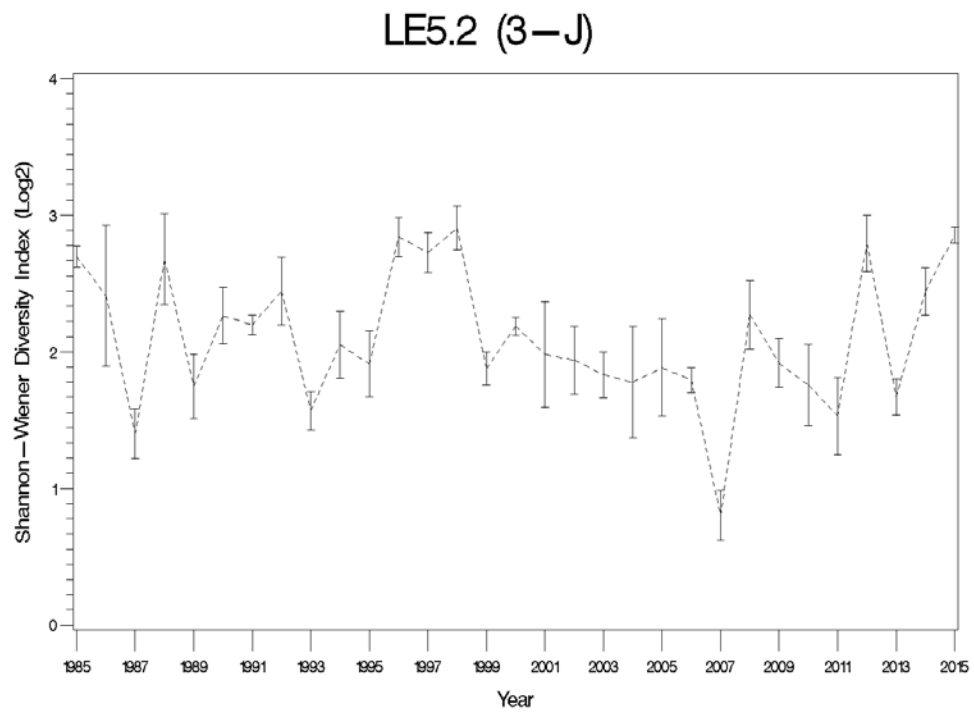


Figure 32. Plot of Shannon-Weiner diversity index at station LE5.2 for 1985 through 2015.

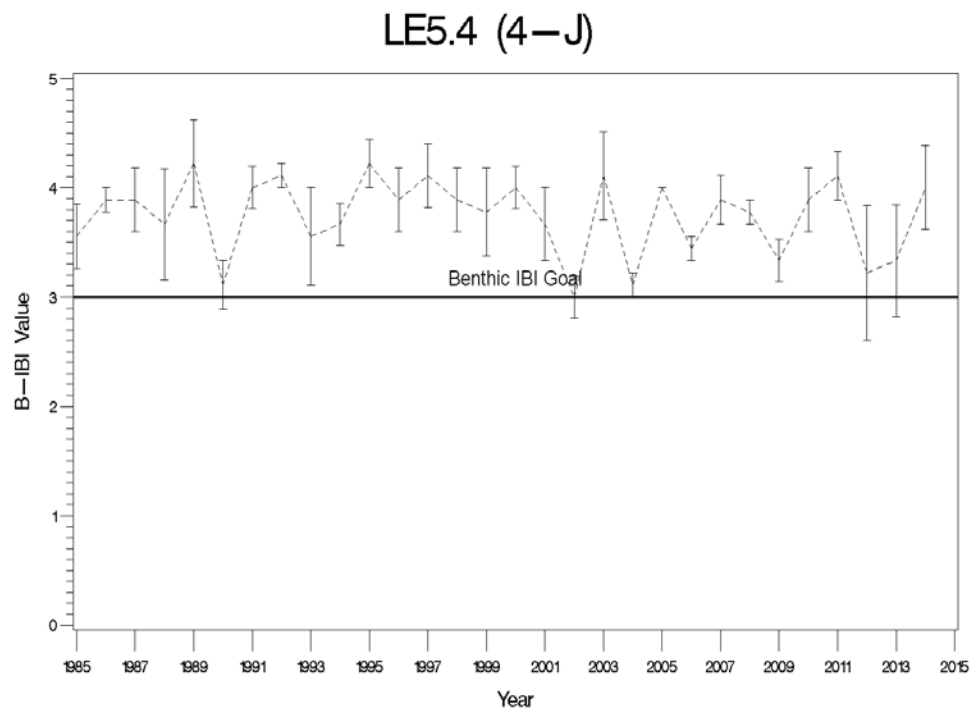


Figure 33. Plot of the benthic IBI against time at station LE5.4 for 1985 through 2015.

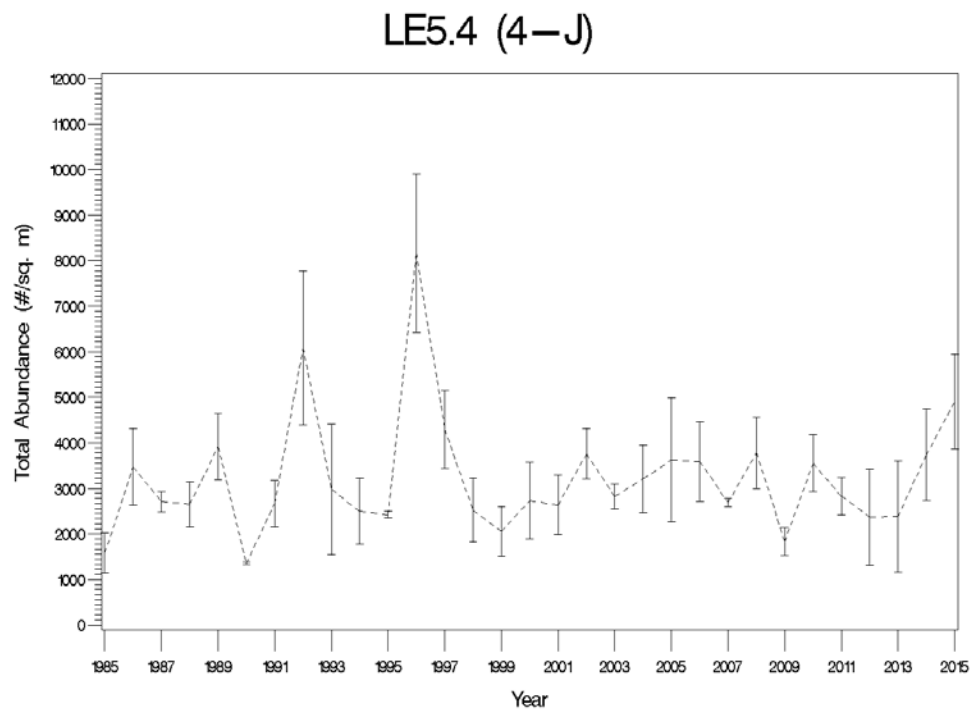


Figure 34. Plot of total benthic community abundance at station LE5.4 for 1985 through 2015.

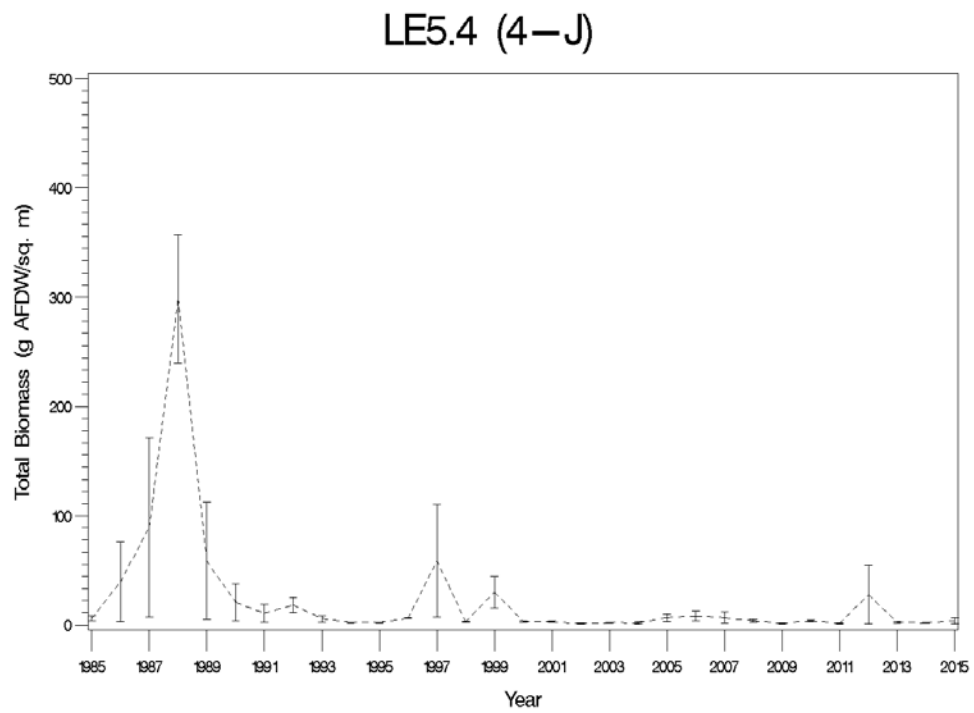


Figure 35. Plot of total benthic community biomass at station LE5.4 for 1985 through 2015.

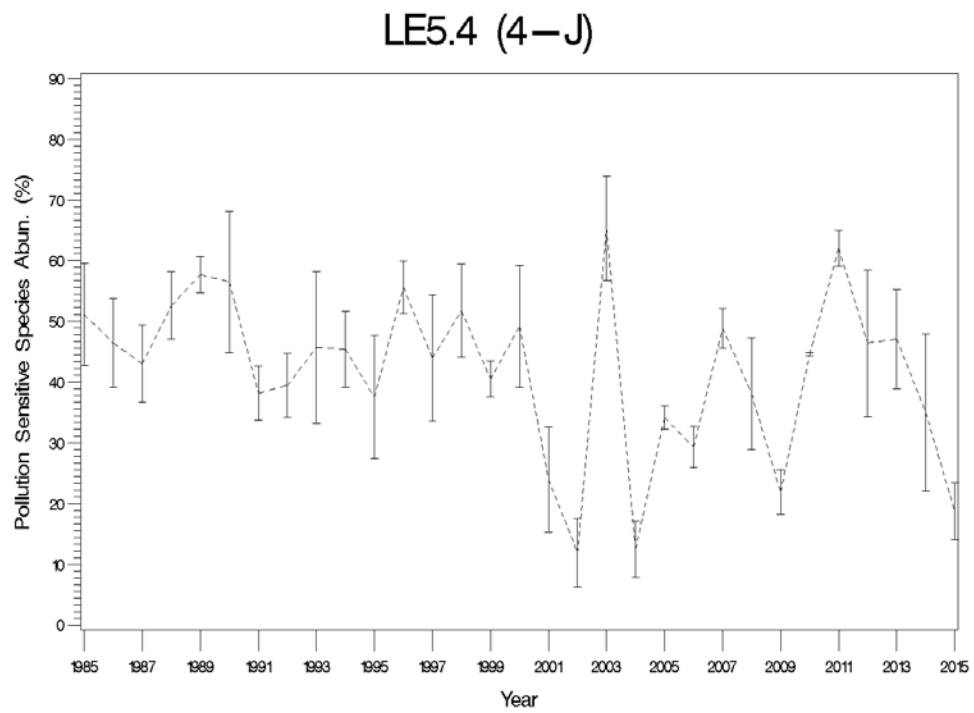


Figure 36. Plot of pollution sensitive species abundance at station LE5.4 for 1985 through 2015.

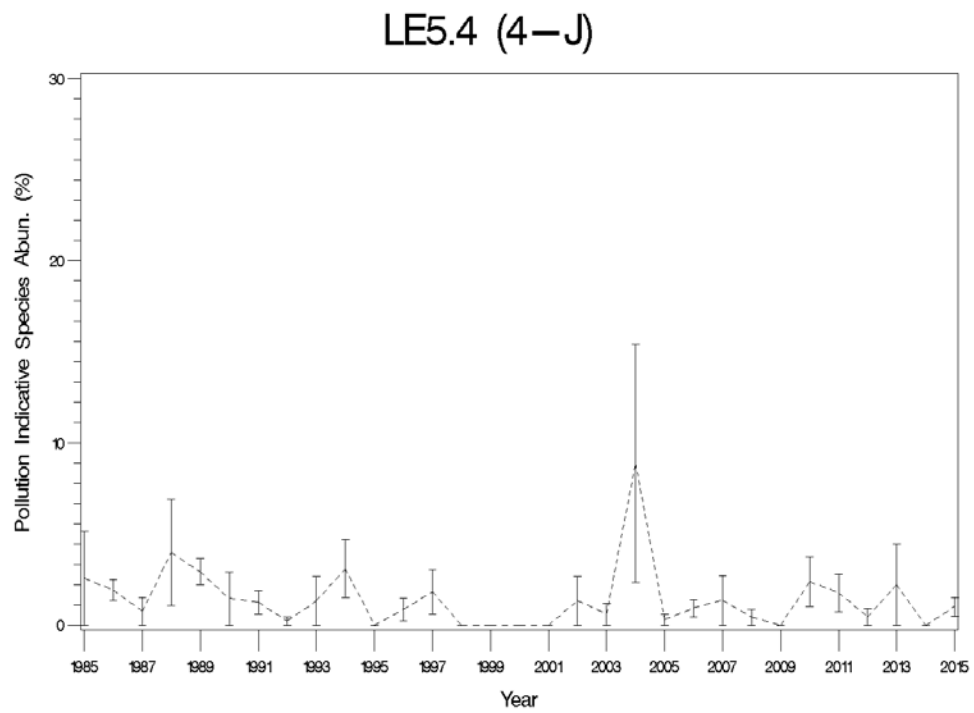


Figure 37. Plot of pollution indicative species abundance at station LE5.4 for 1985 through 2015.

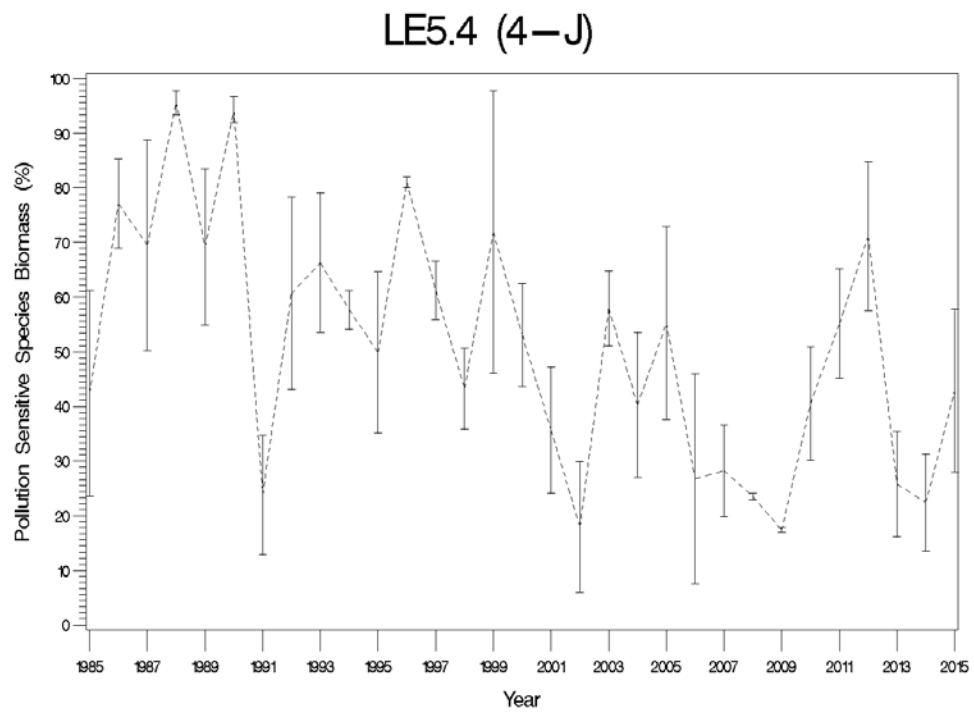


Figure 38. Plot of pollution sensitive species biomass at station LE5.4 for 1985 through 2015.

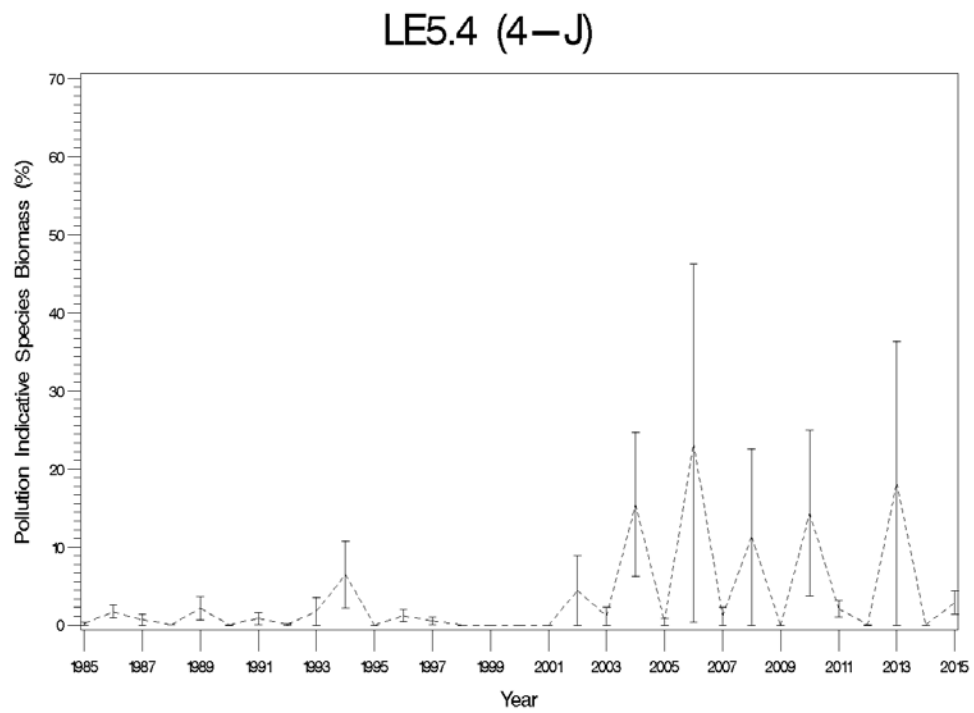


Figure 39. Plot of pollution indicative species biomass at station LE5.4 for 1985 through 2015.

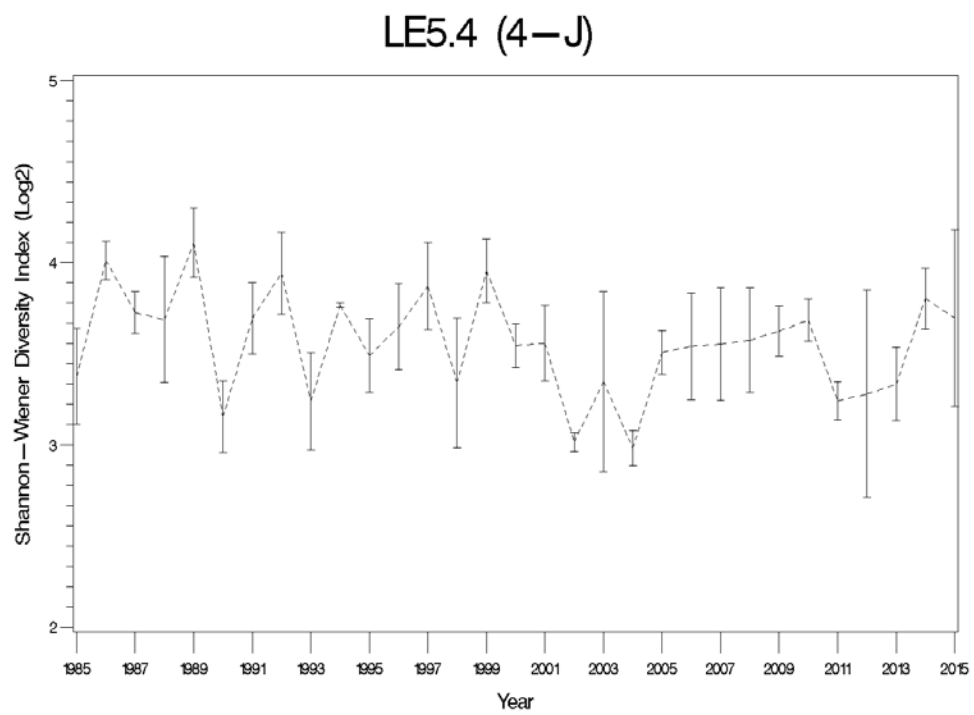


Figure 40. Plot of Shannon-Weiner diversity index at station LE5.4 for 1985 through 2015.

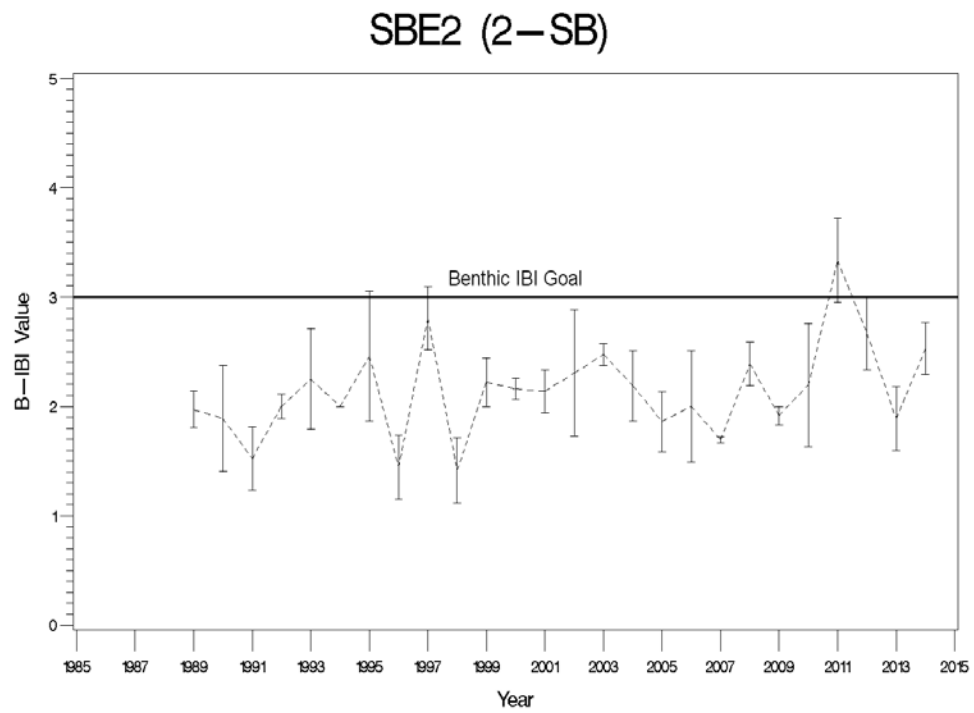


Figure 41. Plot of the benthic IBI against time at station SBE2 for 1985 through 2015.

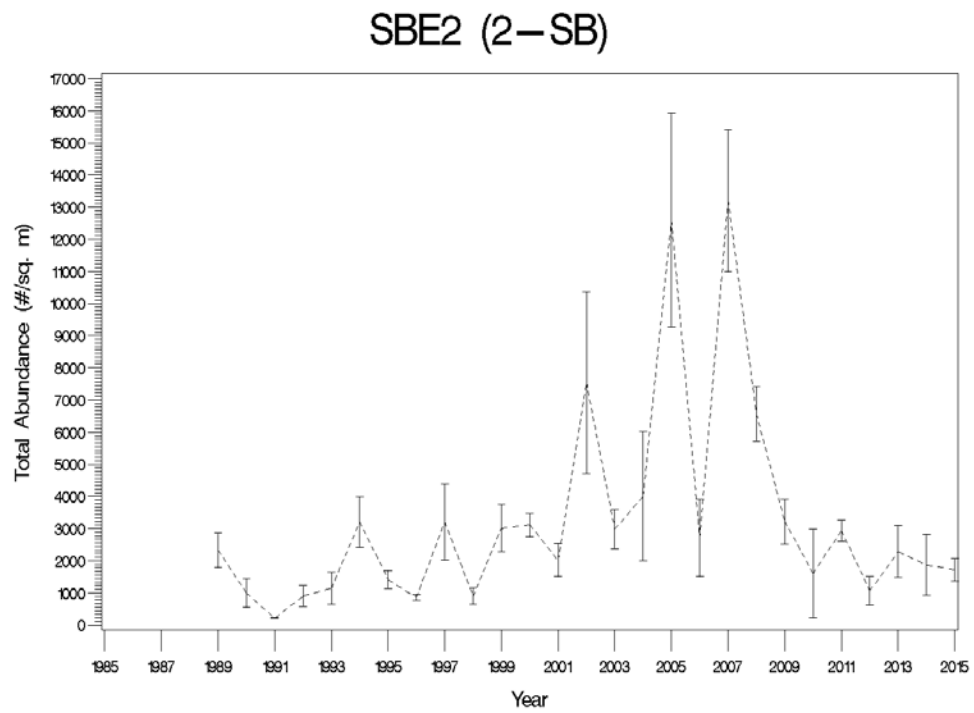


Figure 42. Plot of total benthic community abundance at station SBE2 for 1985 through 2015.

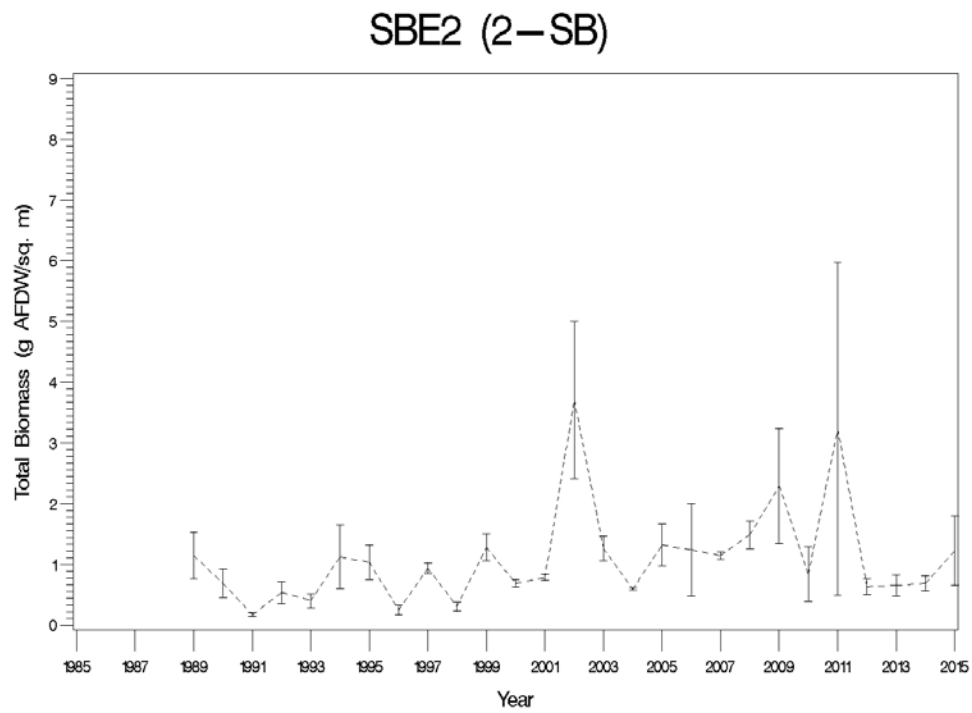


Figure 43. Plot of total benthic community biomass at station SBE2 for 1985 through 2015.

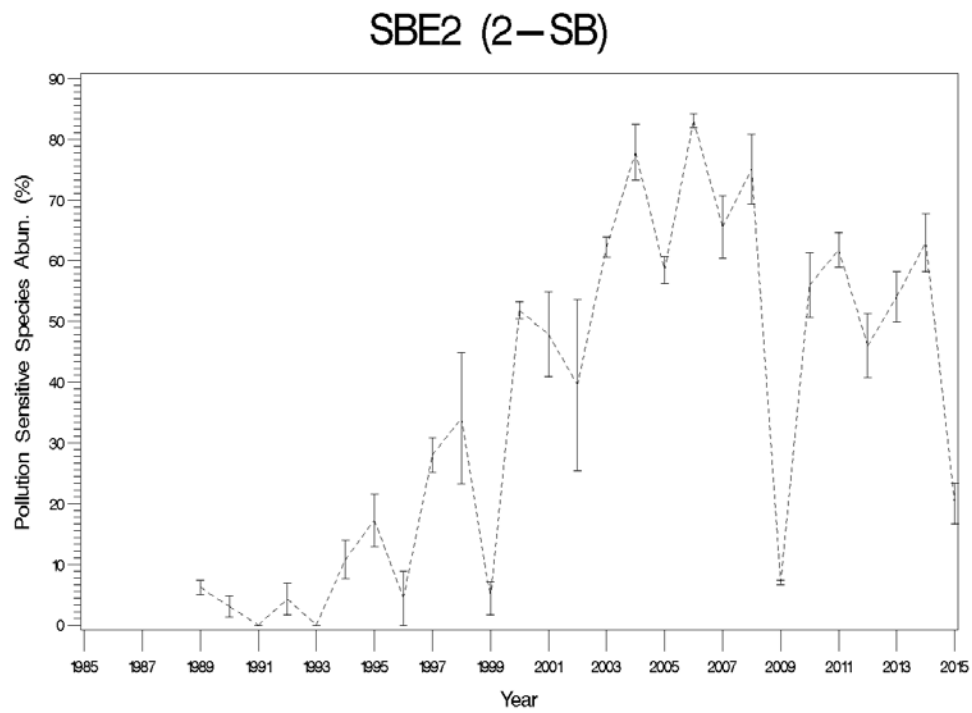


Figure 44. Plot of pollution sensitive species abundance at station SBE2 for 1985 through 2015.

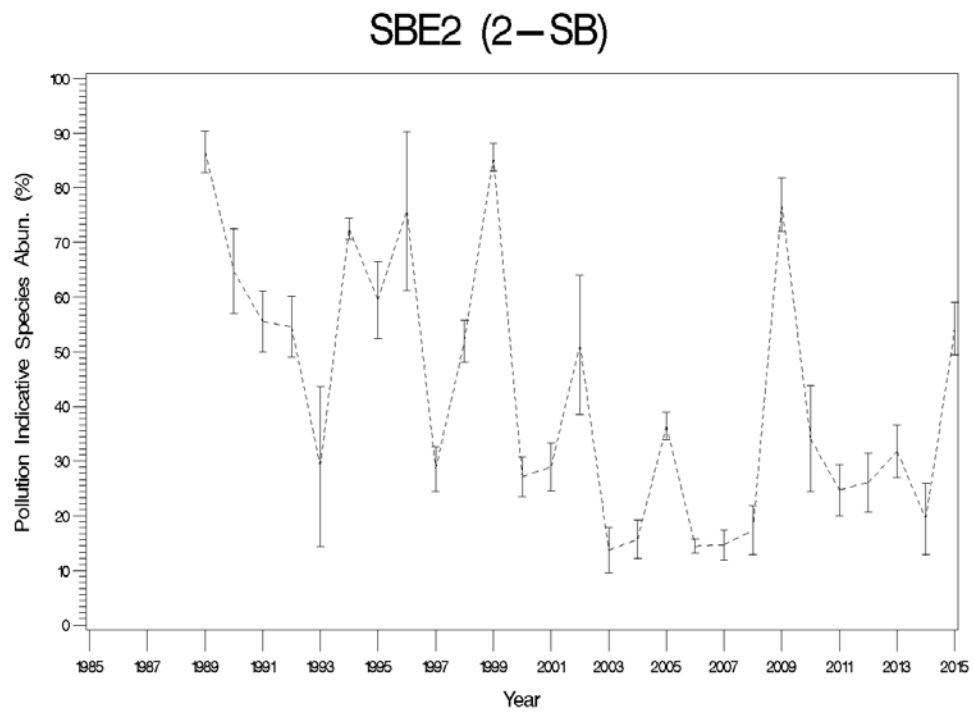


Figure 45. Plot of pollution indicative species abundance at station SBE2 for 1985 through 2015.

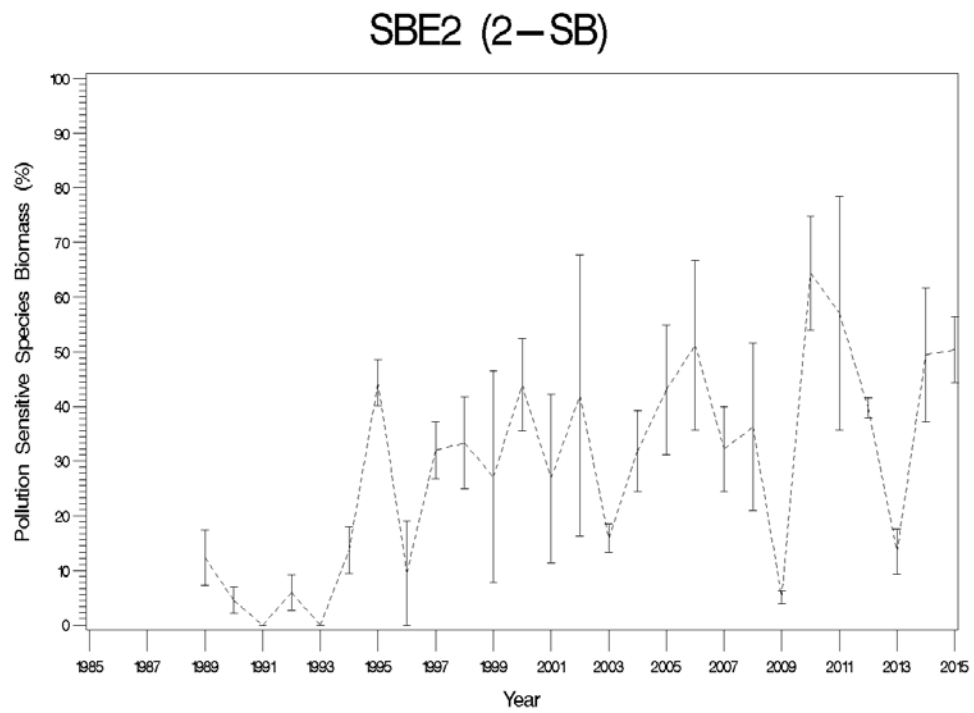


Figure 46. Plot of pollution sensitive species biomass at station SBE2 for 1985 through 2015.

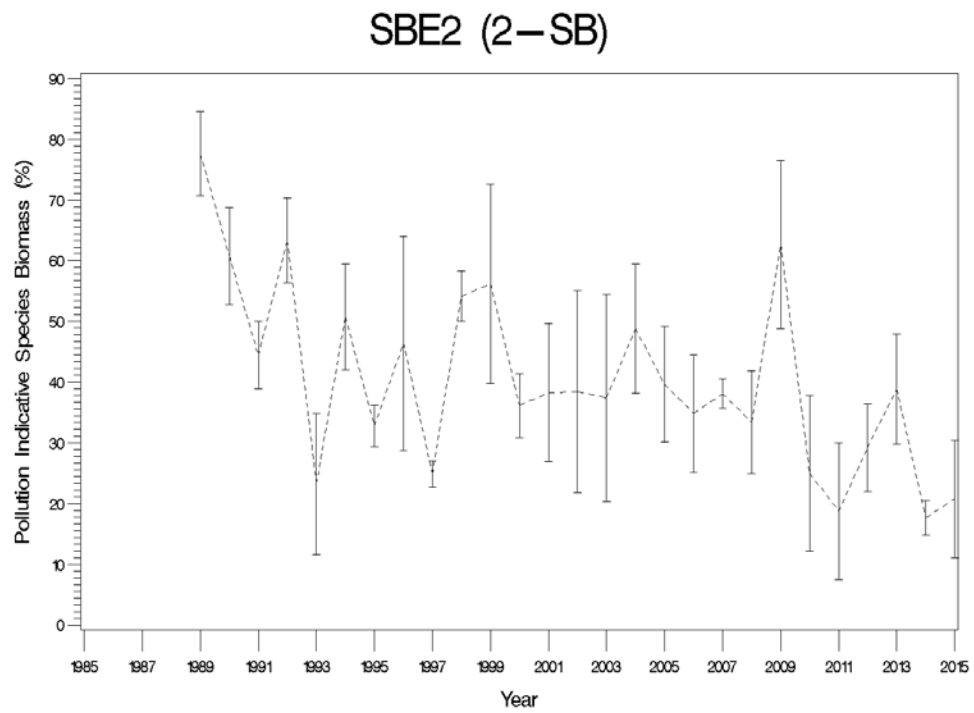


Figure 47. Plot of pollution indicative species biomass at station SBE2 for 1985 through 2015.

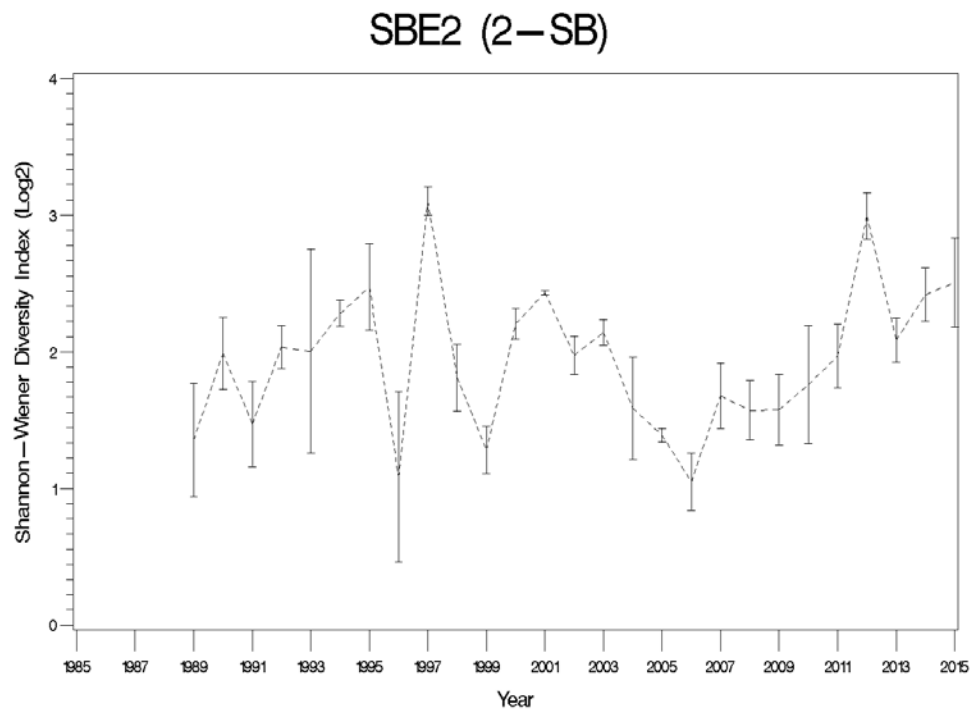


Figure 48. Plot of Shannon-Weiner diversity index at station SBE2 for 1985 through 2015.

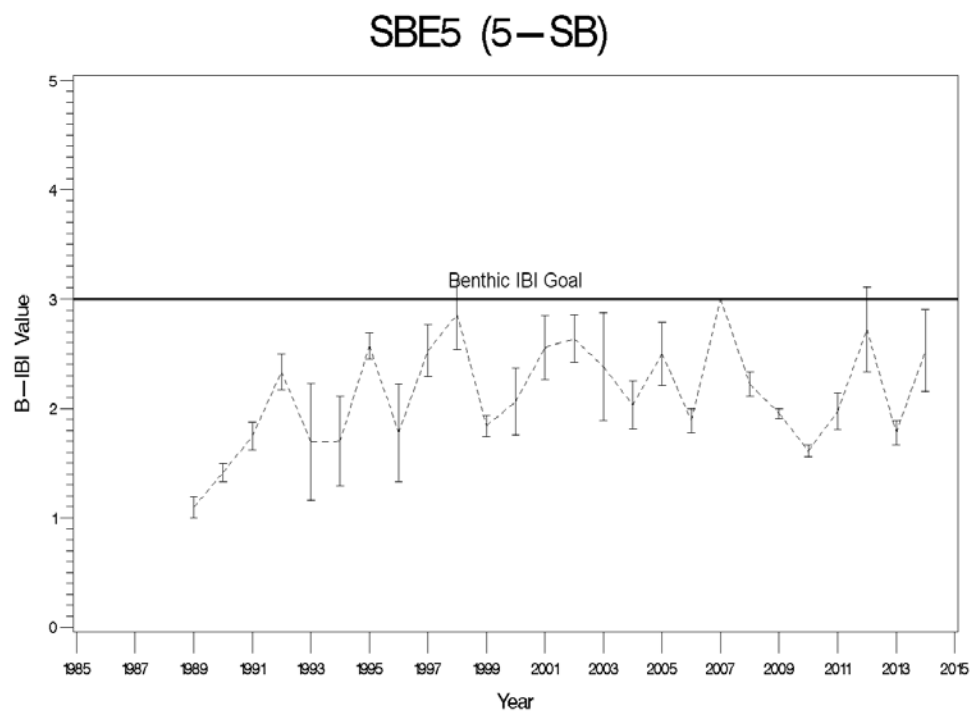


Figure 49. Plot of the benthic IBI against time at station SBE5 for 1985 through 2015.

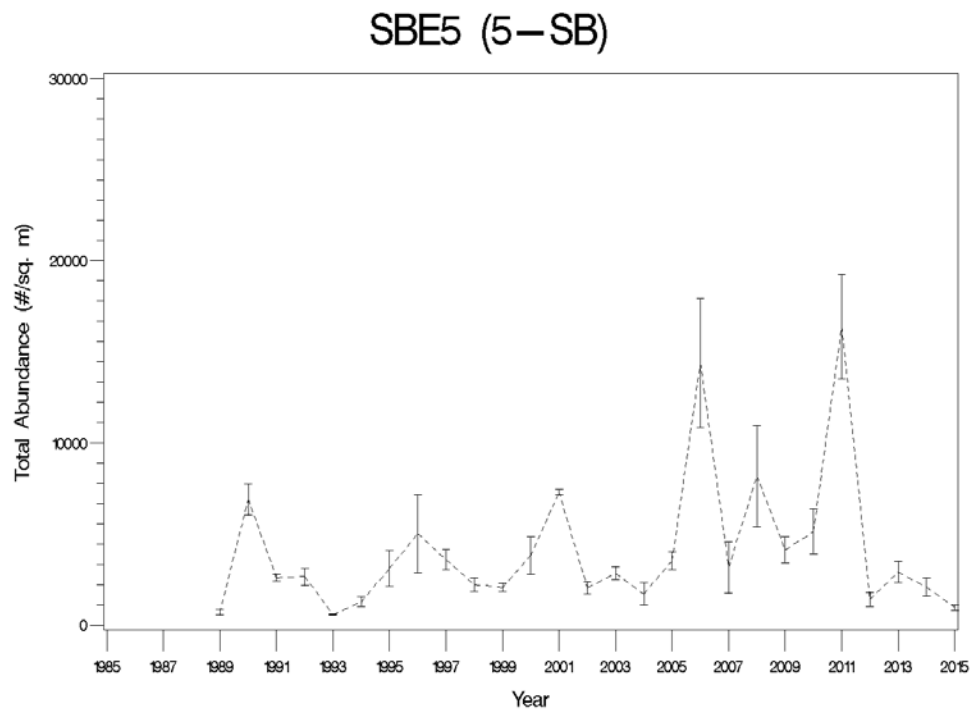


Figure 50. Plot of total benthic community abundance at station SBE5 for 1985 through 2015.

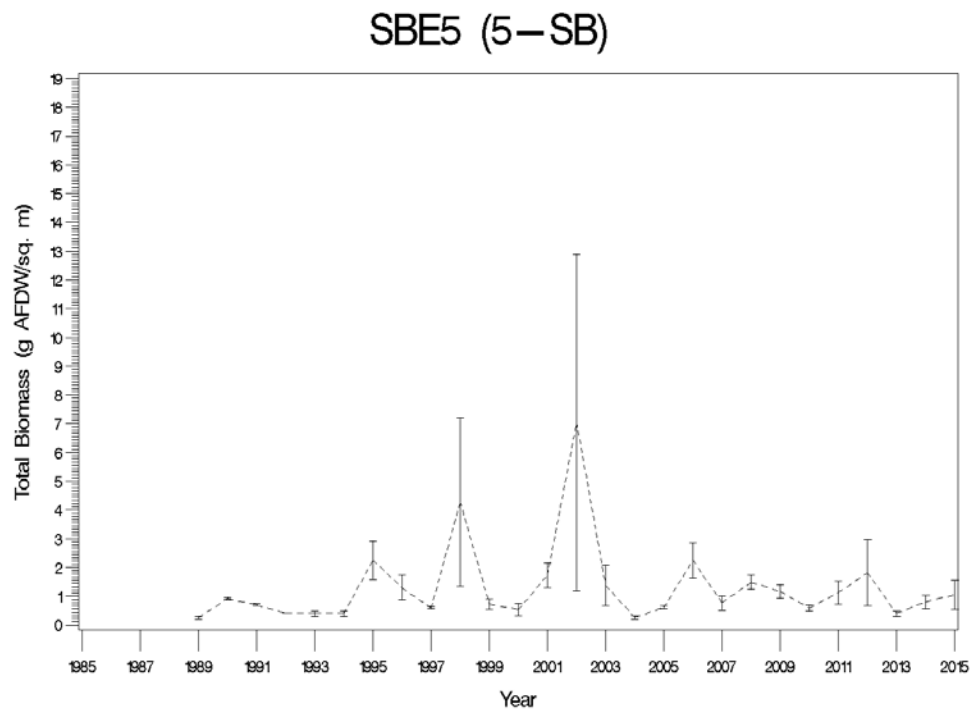


Figure 51. Plot of total benthic community biomass at station SBE5 for 1985 through 2015.

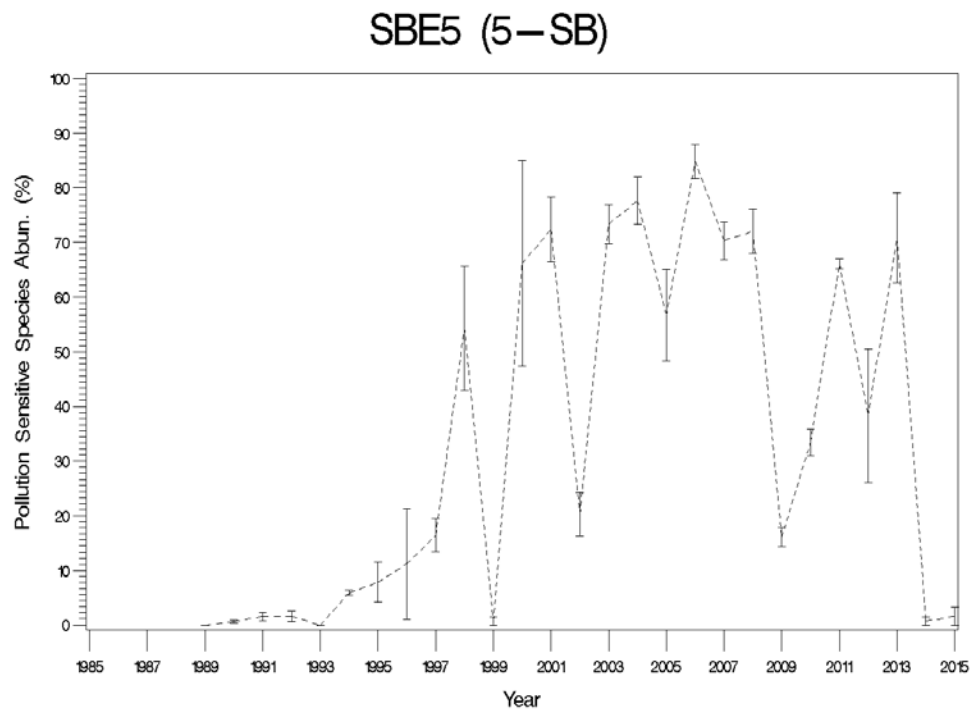


Figure 52. Plot of pollution sensitive species abundance at station SBE5 for 1985 through 2015.

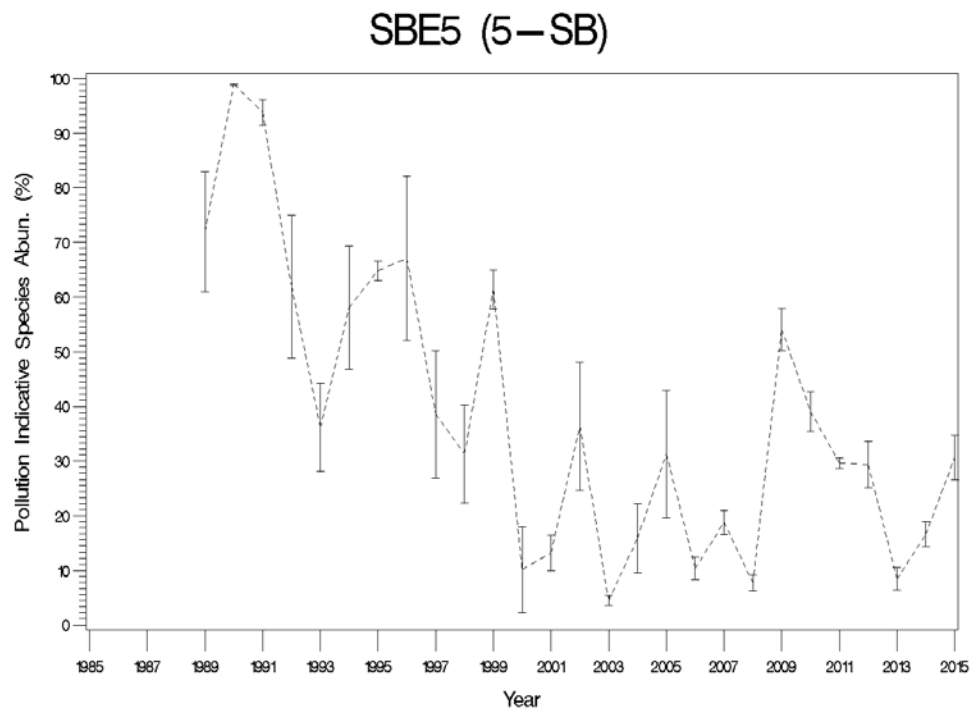


Figure 53. Plot of pollution indicative species abundance at station SBE5 for 1985 through 2015.

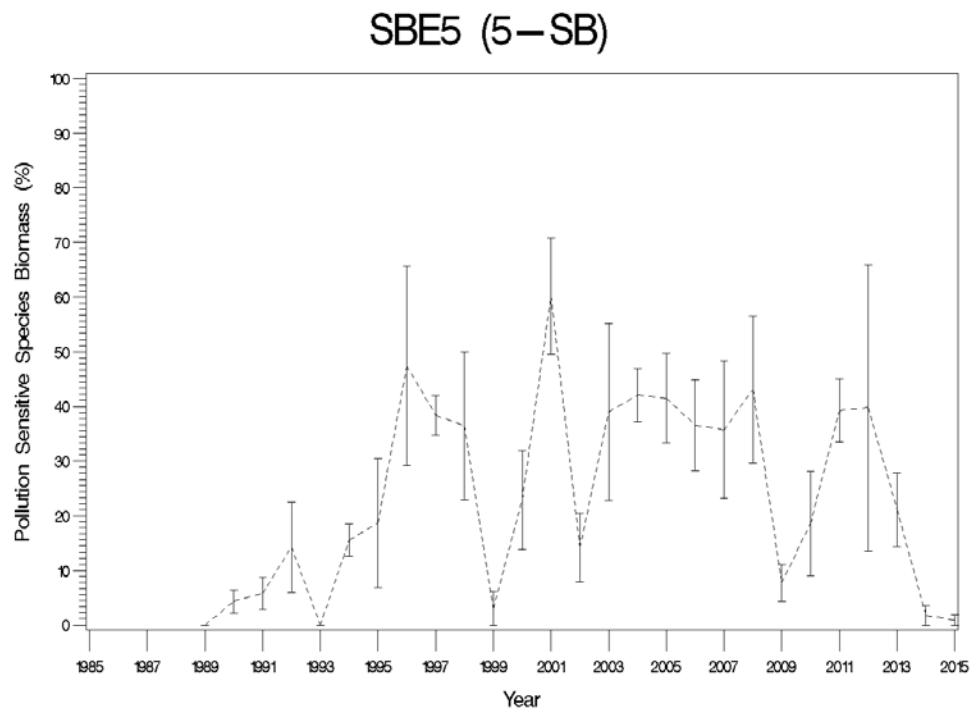


Figure 54. Plot of pollution sensitive species biomass at station SBE5 for 1985 through 2015.

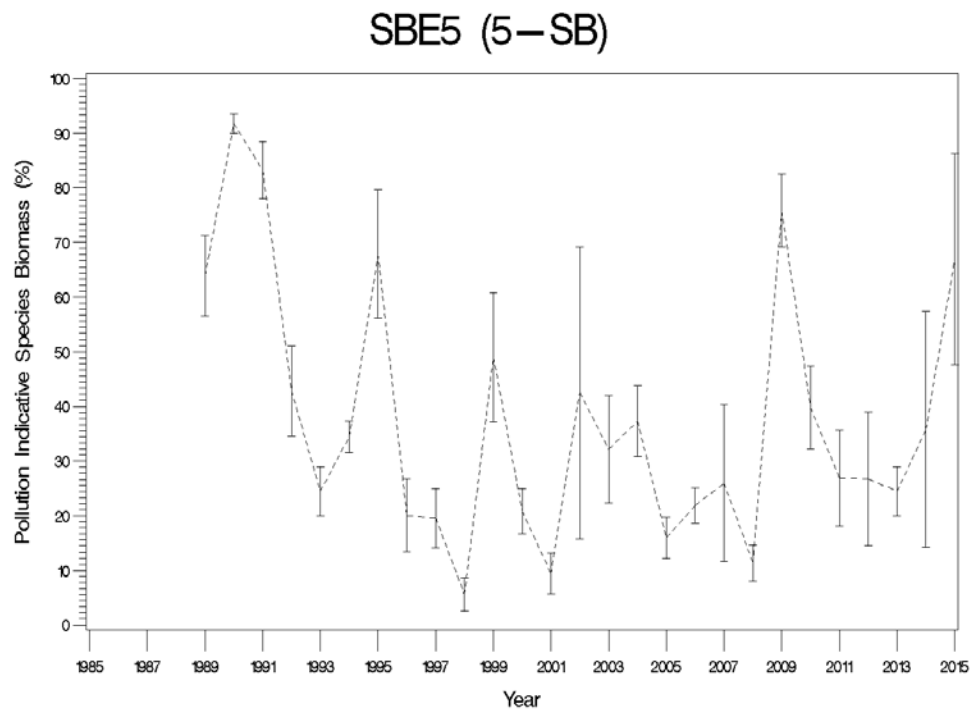


Figure 55. Plot of pollution indicative species biomass at station SBE5 for 1985 through 2015.

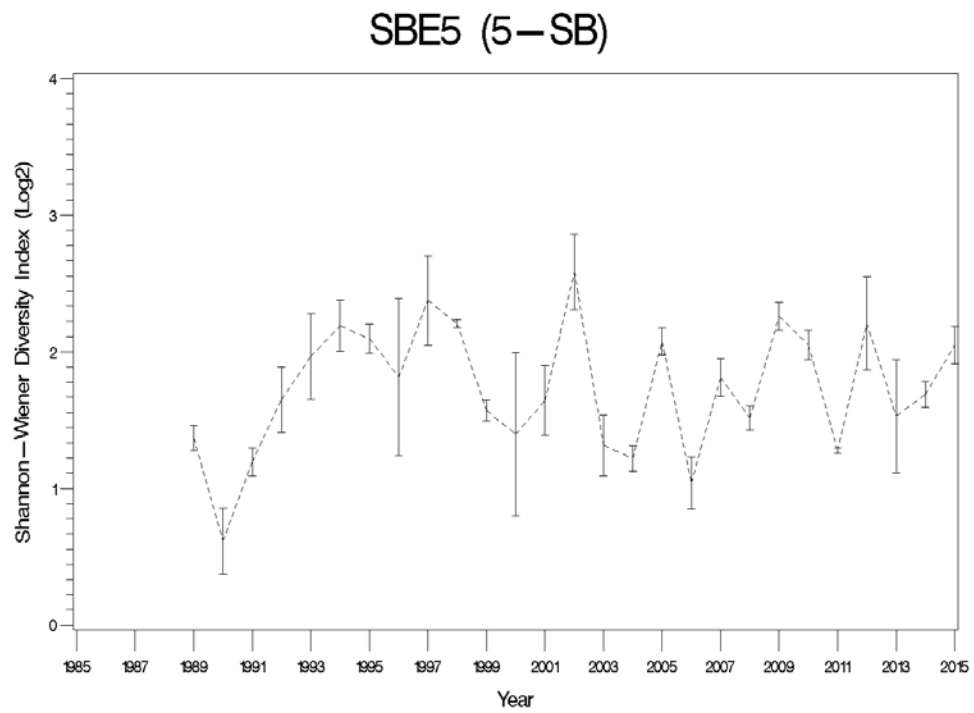


Figure 56. Plot of Shannon-Weiner diversity index at station SBE5 for 1985 through 2015.

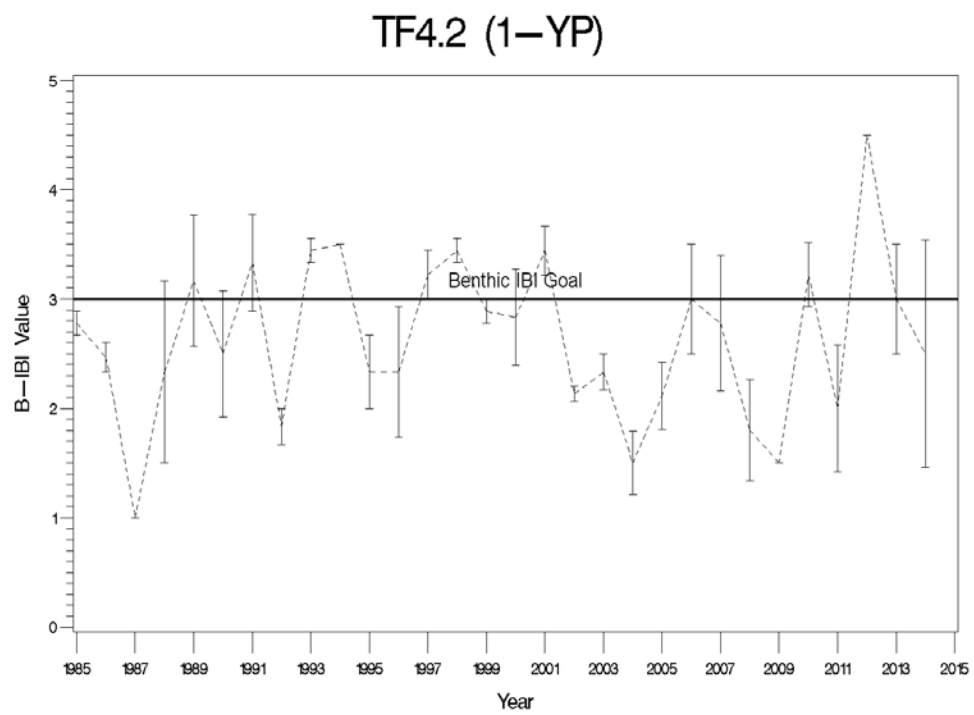


Figure 57. Plot of the benthic IBI against time at station TF4.2 for 1985 through 2015.

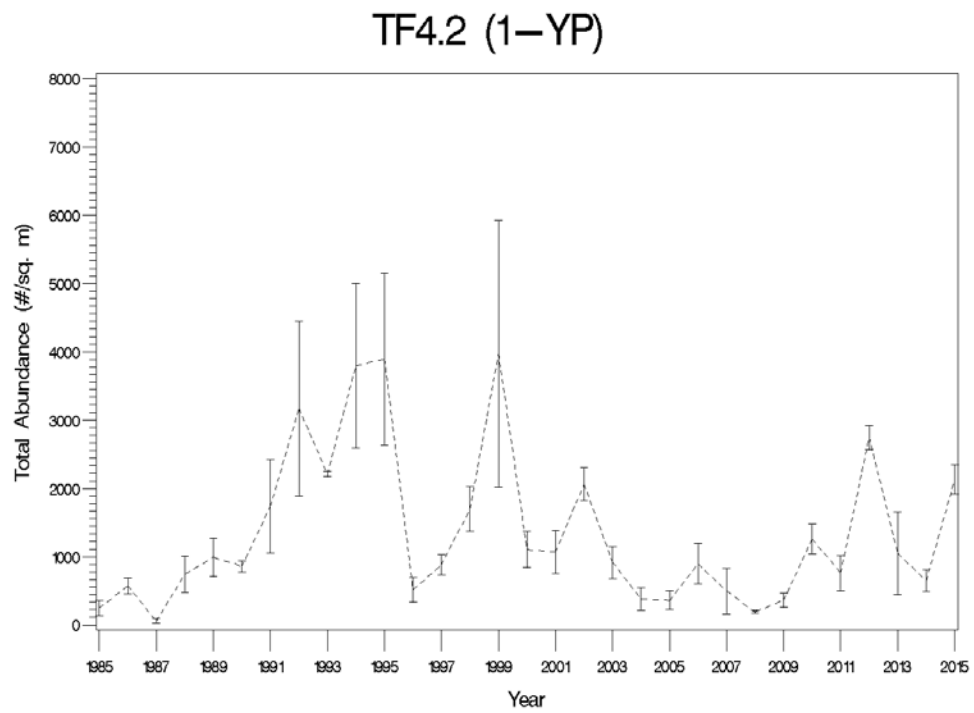


Figure 58. Plot of total benthic community abundance at station TF4.2 for 1985 through 2015.

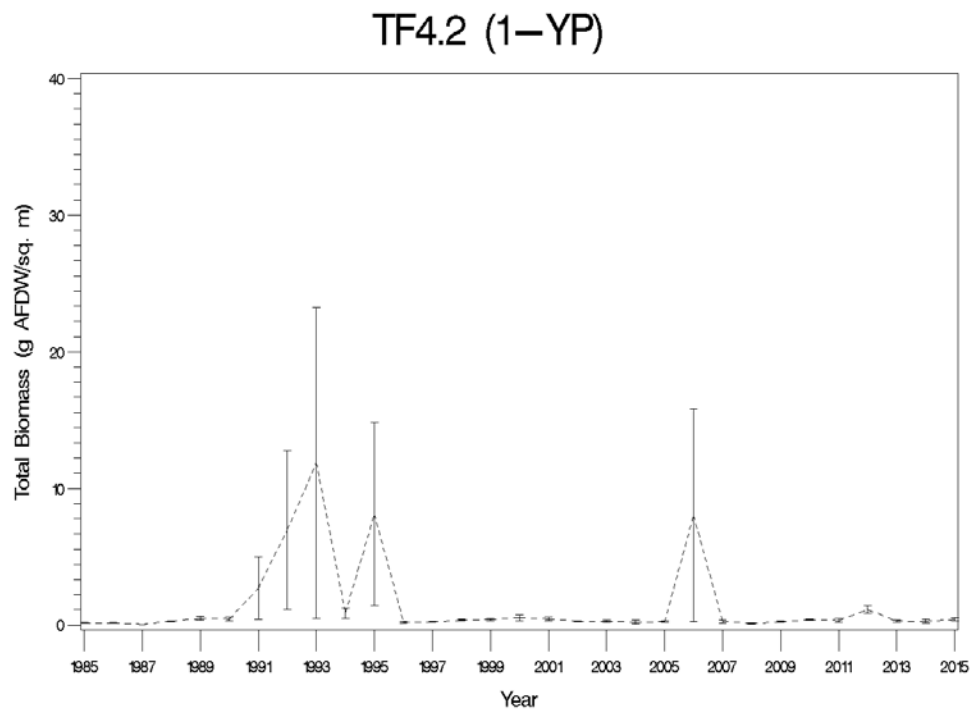


Figure 59. Plot of total benthic community biomass at station TF4.2 for 1985 through 2015.

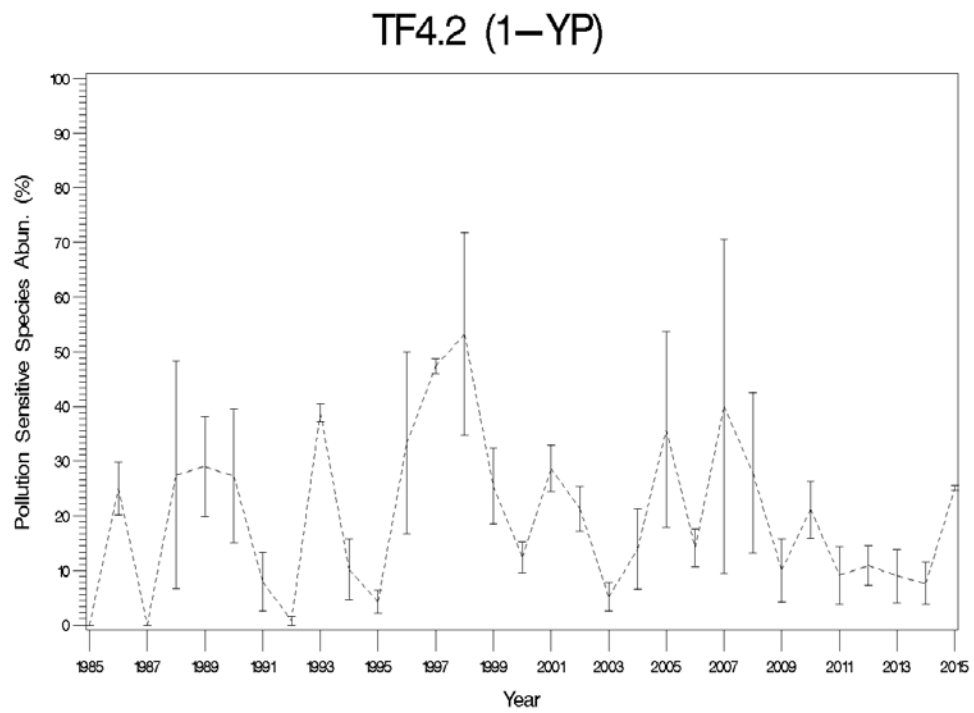


Figure 60. Plot of pollution sensitive species abundance at station TF4.2 for 1985 through 2015.

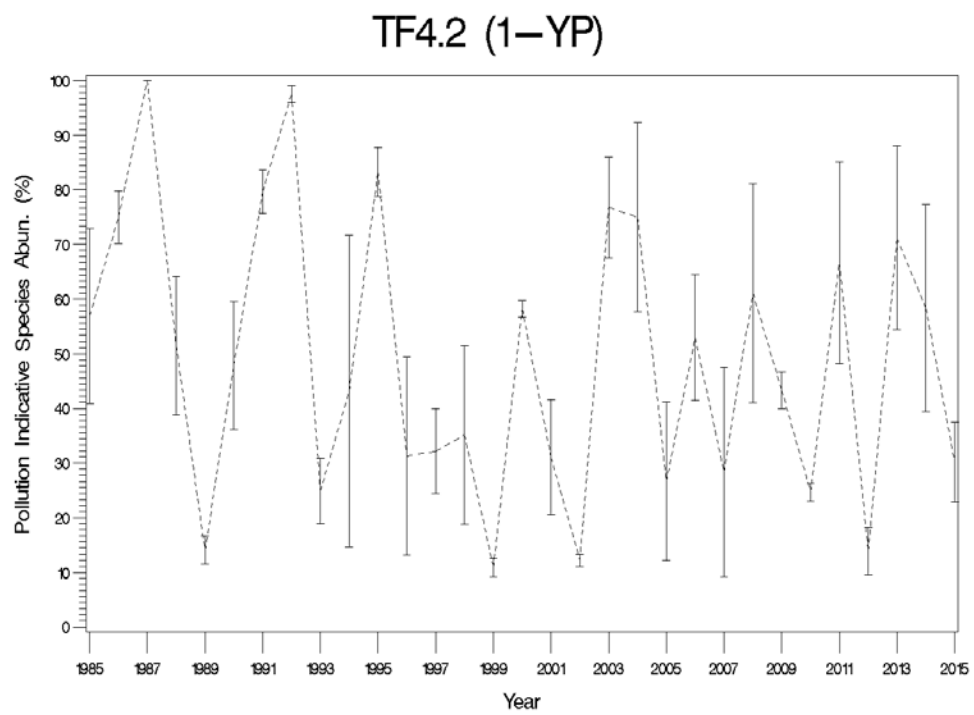


Figure 61. Plot of pollution indicative species abundance at station TF4.2 for 1985 through 2015.

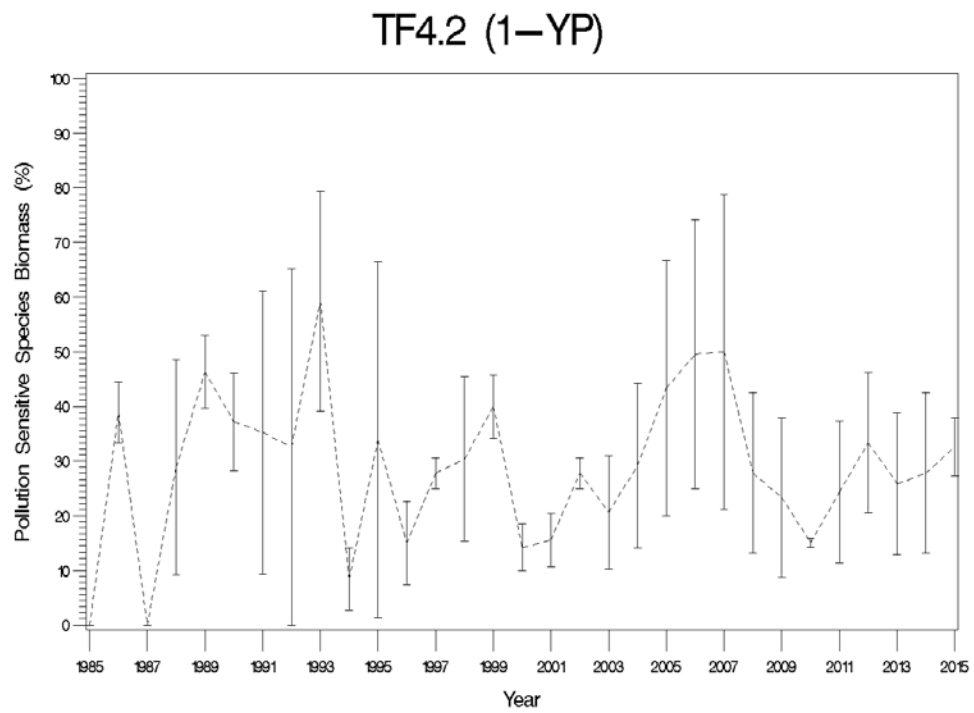


Figure 62. Plot of pollution sensitive species biomass at station TF4.2 for 1985 through 2015.

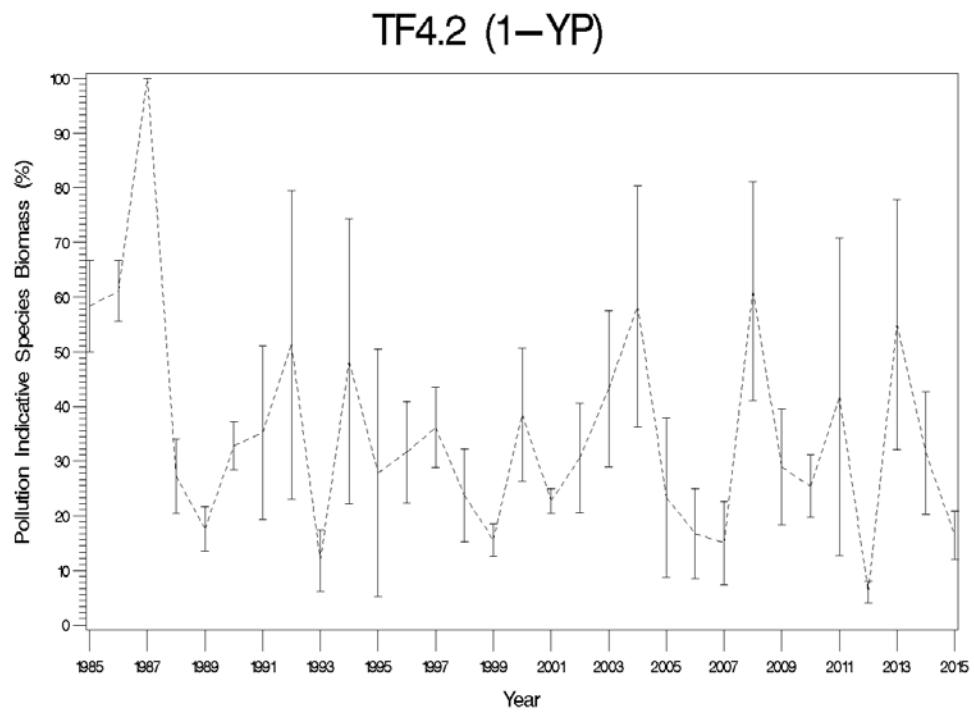


Figure 63. Plot of pollution indicative species biomass at station TF4.2 for 1985 through 2015.

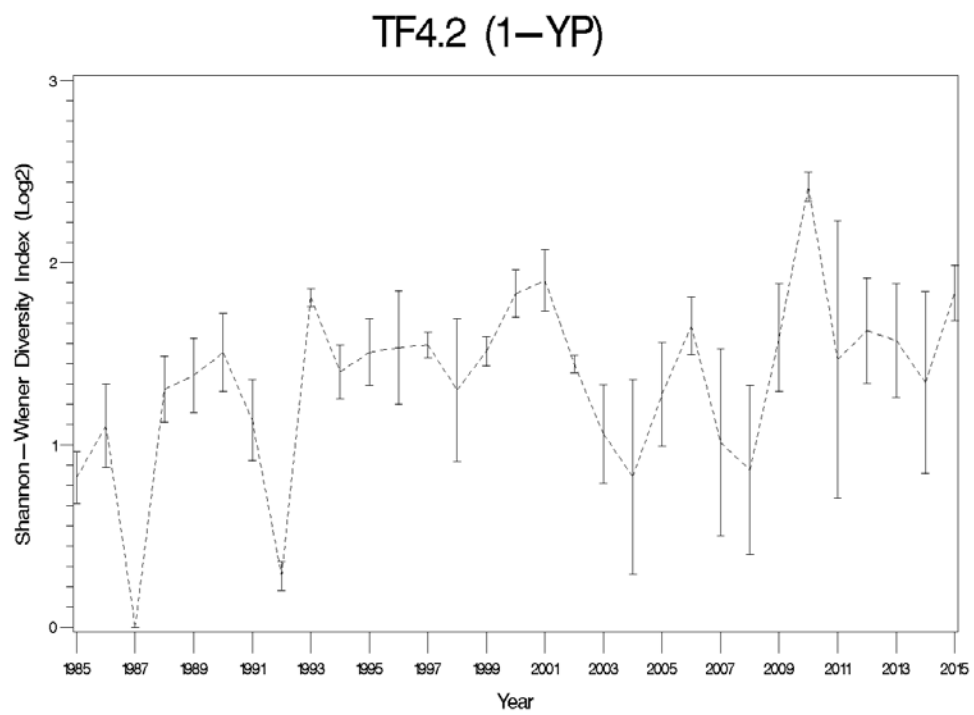


Figure 64. Plot of Shannon-Weiner diversity index at station TF4.2 for 1985 through 2015.

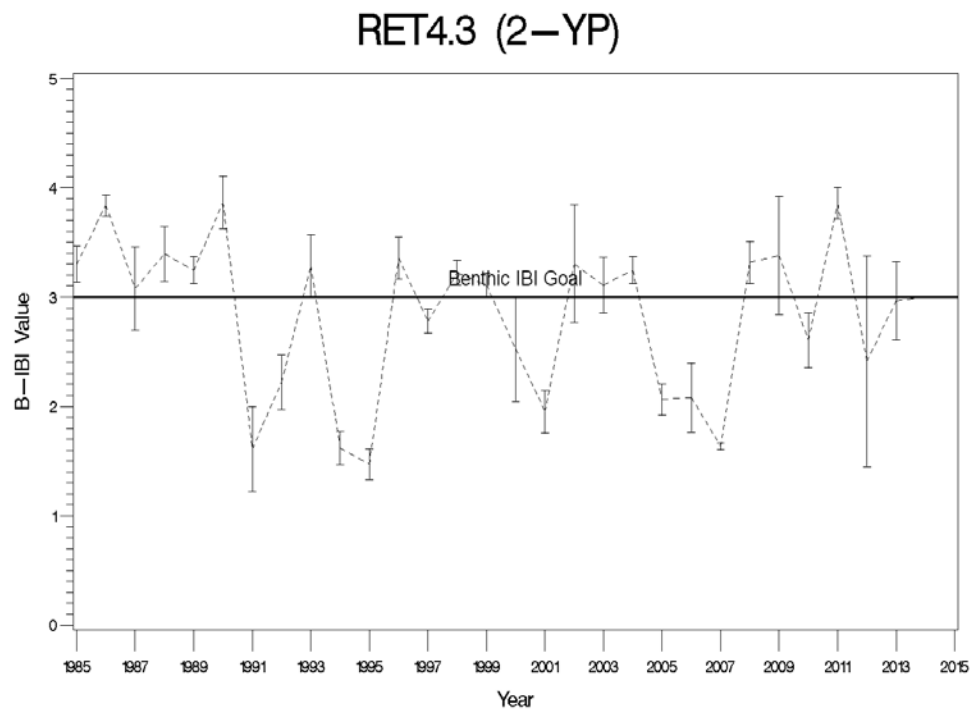


Figure 65. Plot of the benthic IBI against time at station RET4.3 for 1985 through 2015.

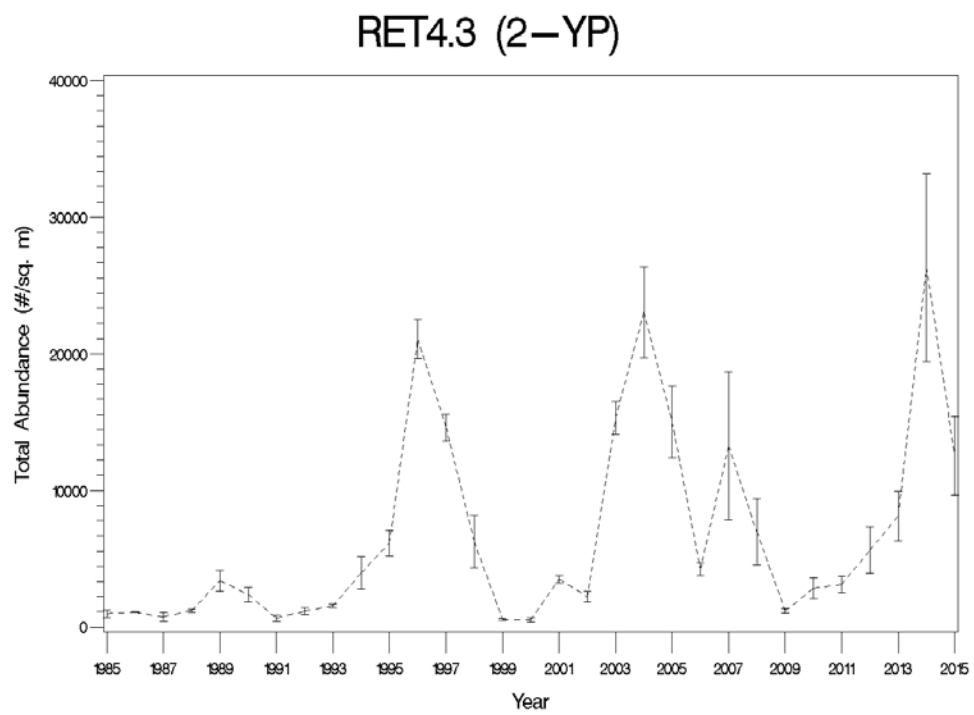


Figure 66. Plot of total benthic community abundance at station RET4.3 for 1985 through 2015.

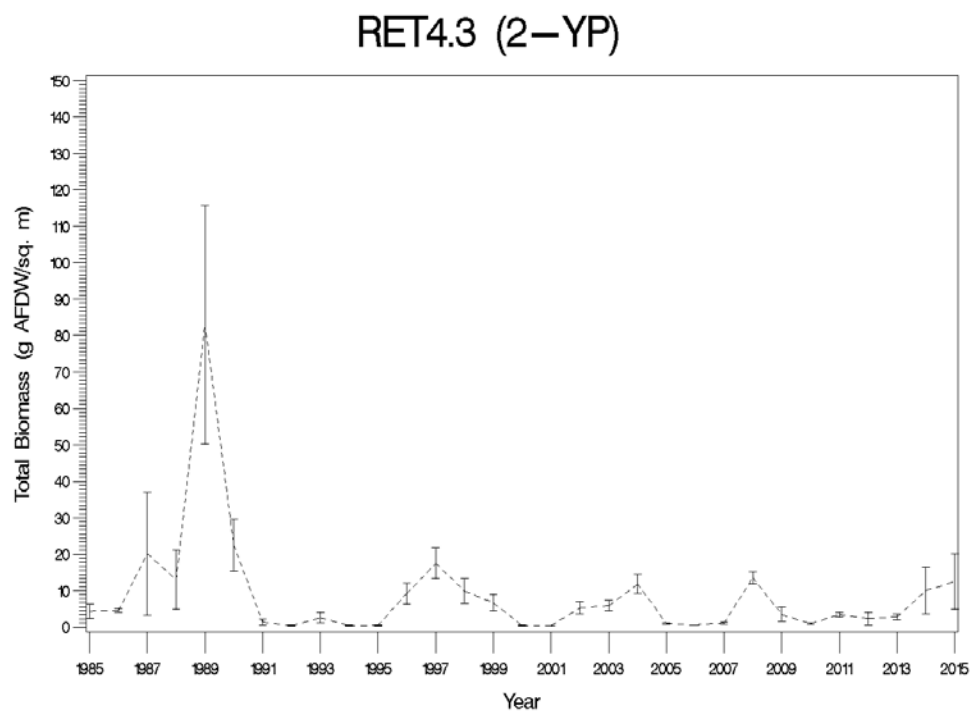


Figure 67. Plot of total benthic community biomass at station RET4.3 for 1985 through 2015.

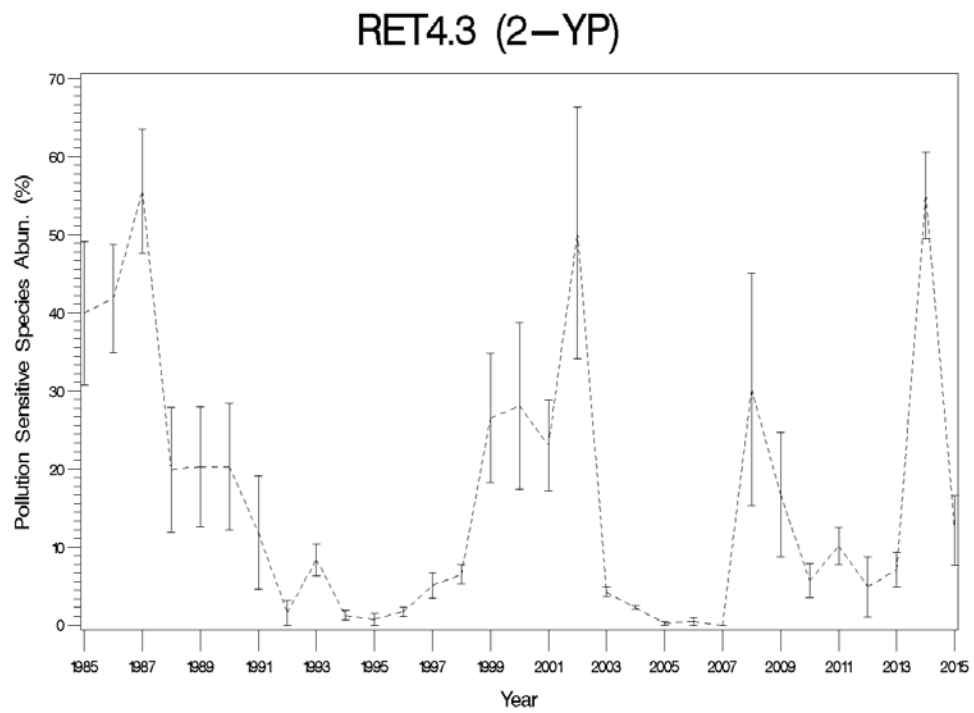


Figure 68. Plot of pollution sensitive species abundance at station RET4.3 for 1985 through 2015.

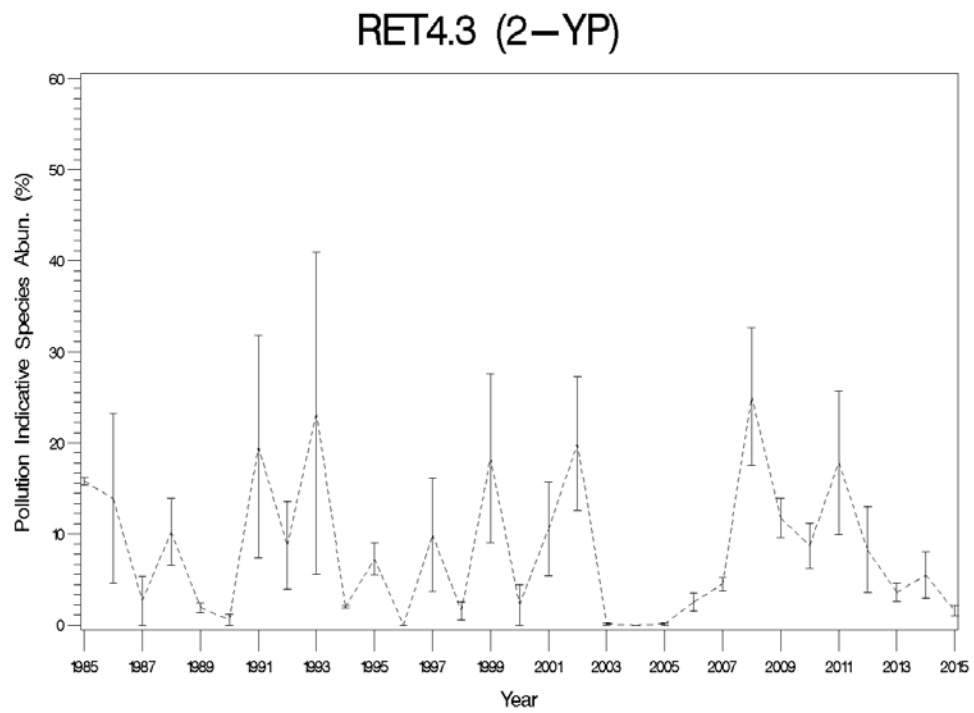


Figure 69. Plot of pollution indicative species abundance at station RET4.3 for 1985 through 2015.

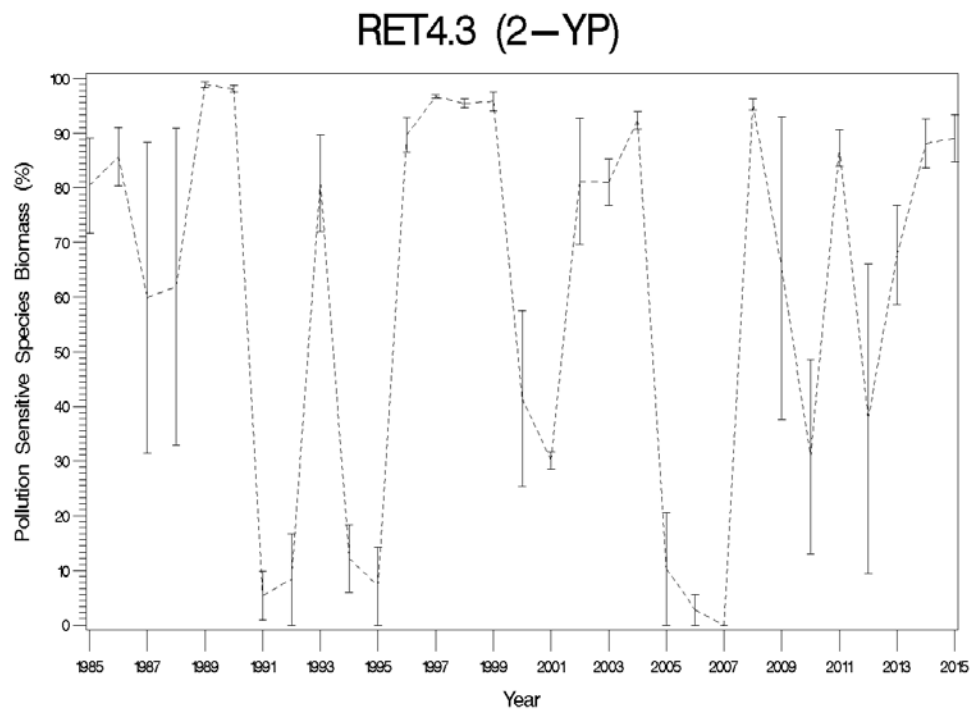


Figure 70. Plot of pollution sensitive species biomass at station RET4.3 for 1985 through 2015.

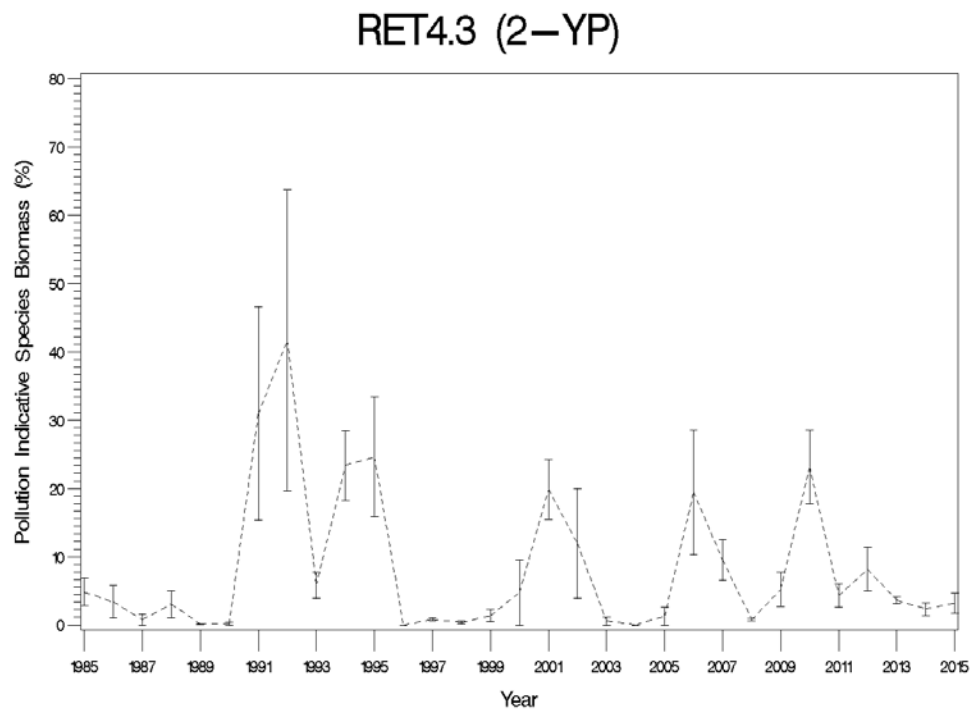


Figure 71. Plot of pollution indicative species biomass at station RET4.3 for 1985 through 2015.

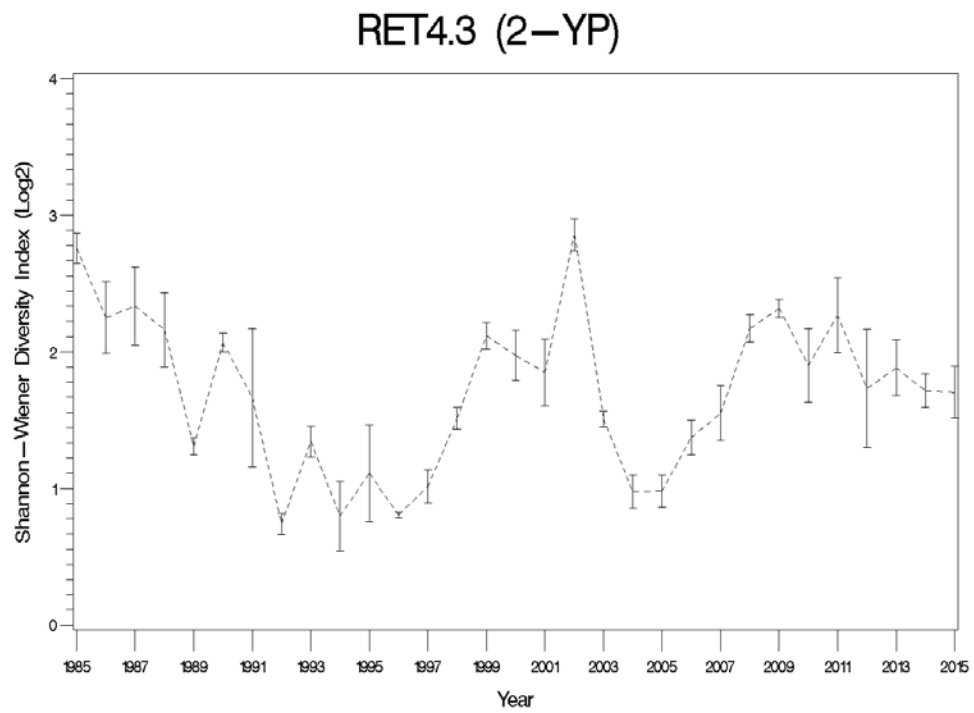


Figure 72. Plot of Shannon-Weiner diversity index at station RET4.3 for 1985 through 2015.

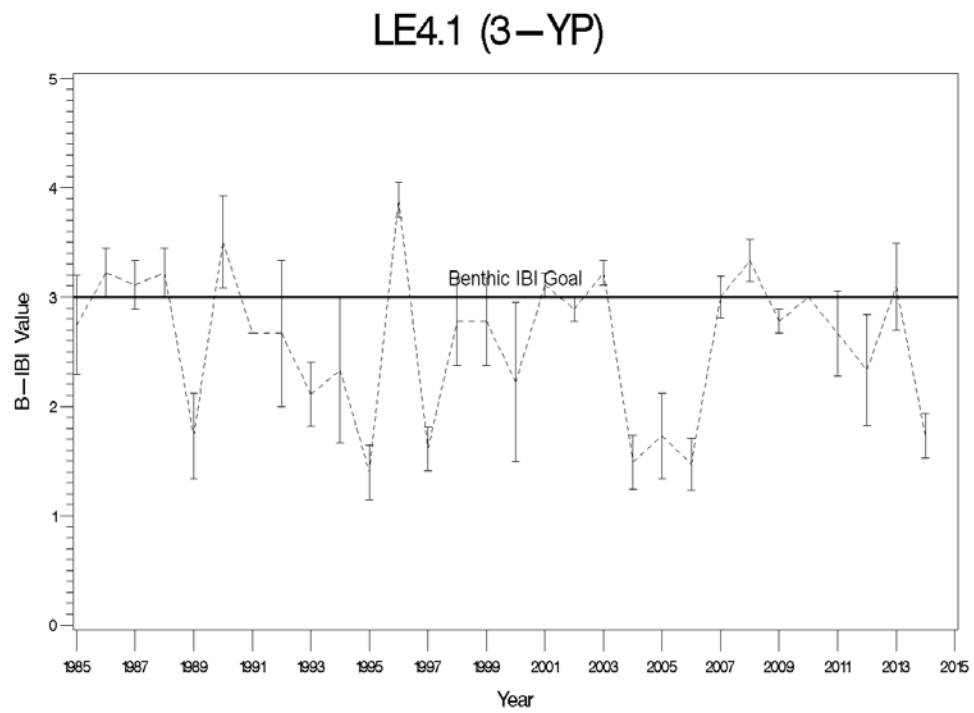


Figure 73. Plot of the benthic IBI against time at station LE4.1 for 1985 through 2015.

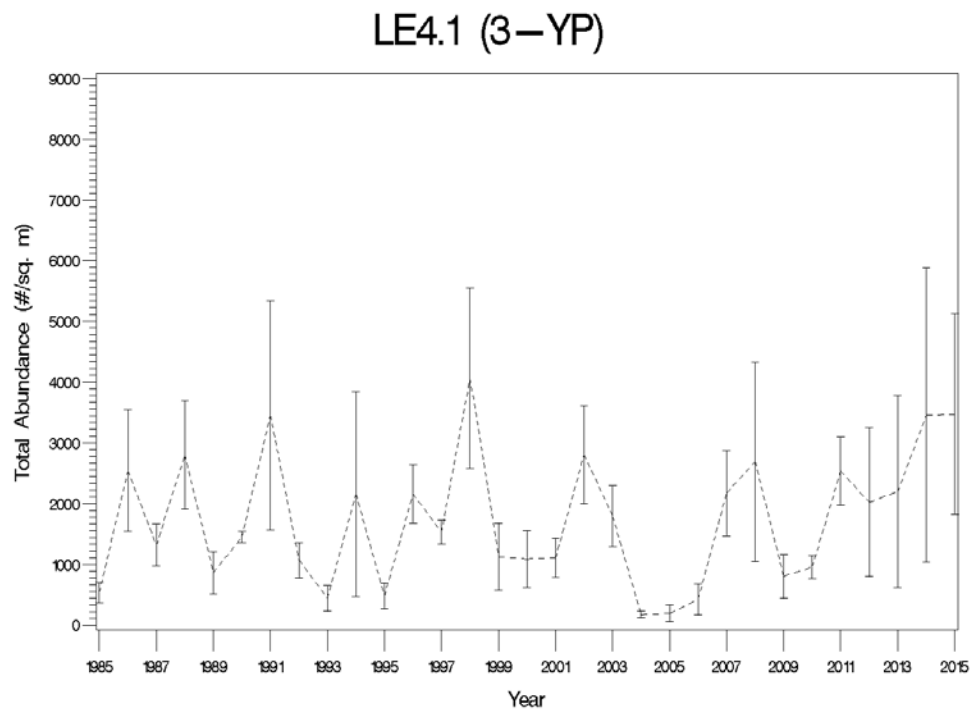


Figure 74. Plot of total benthic community abundance at station LE4.1 for 1985 through 2015.

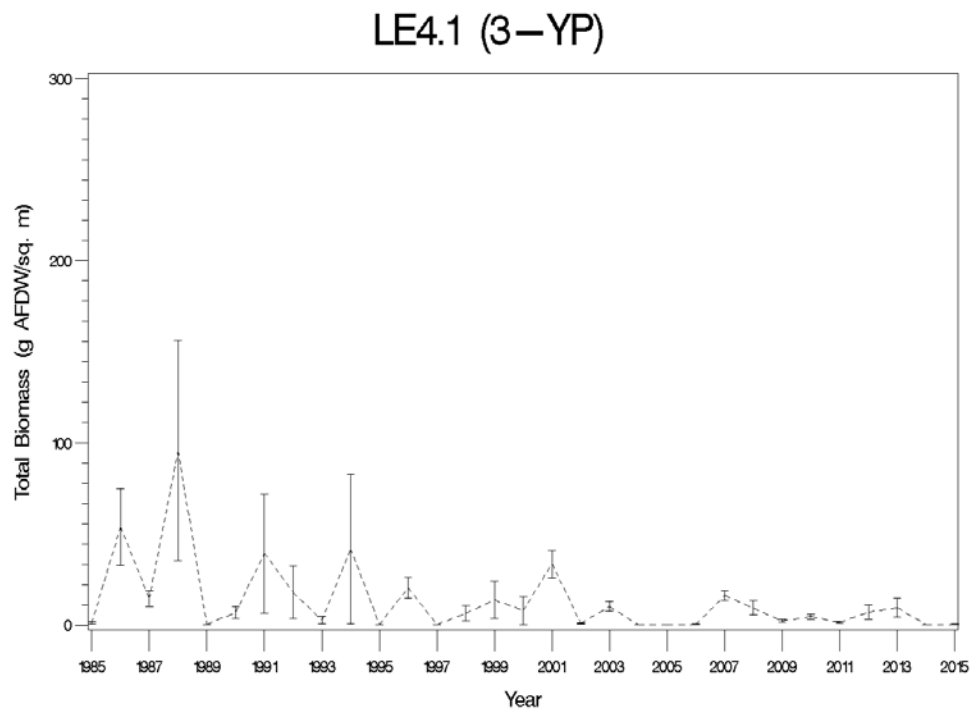


Figure 75. Plot of total benthic community biomass at station LE4.1 for 1985 through 2015.

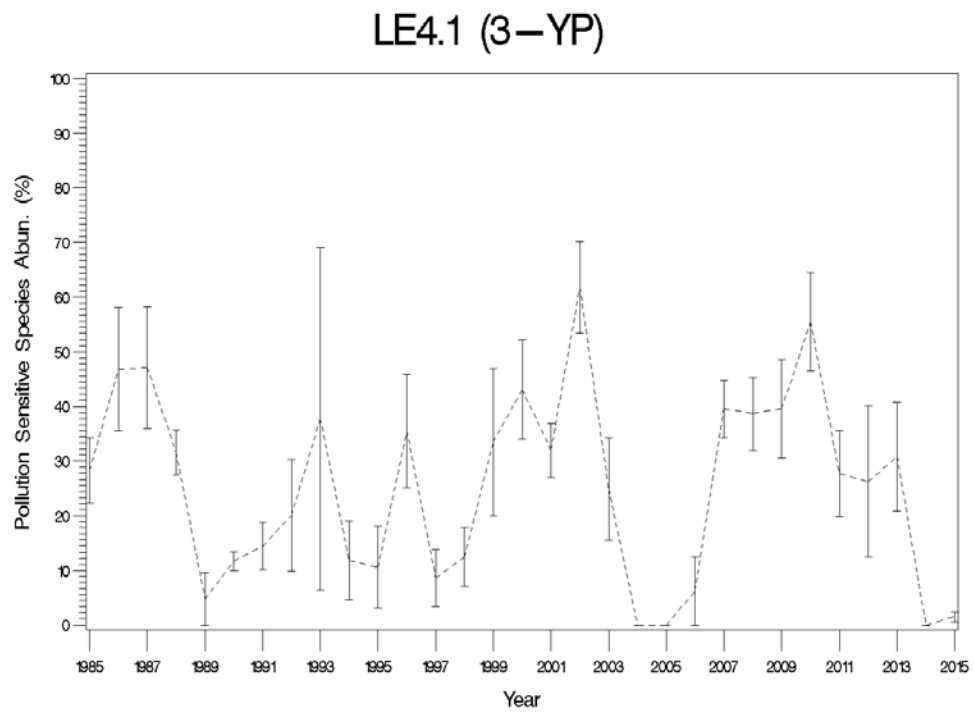


Figure 76. Plot of pollution sensitive species abundance at station LE4.1 for 1985 through 2015.

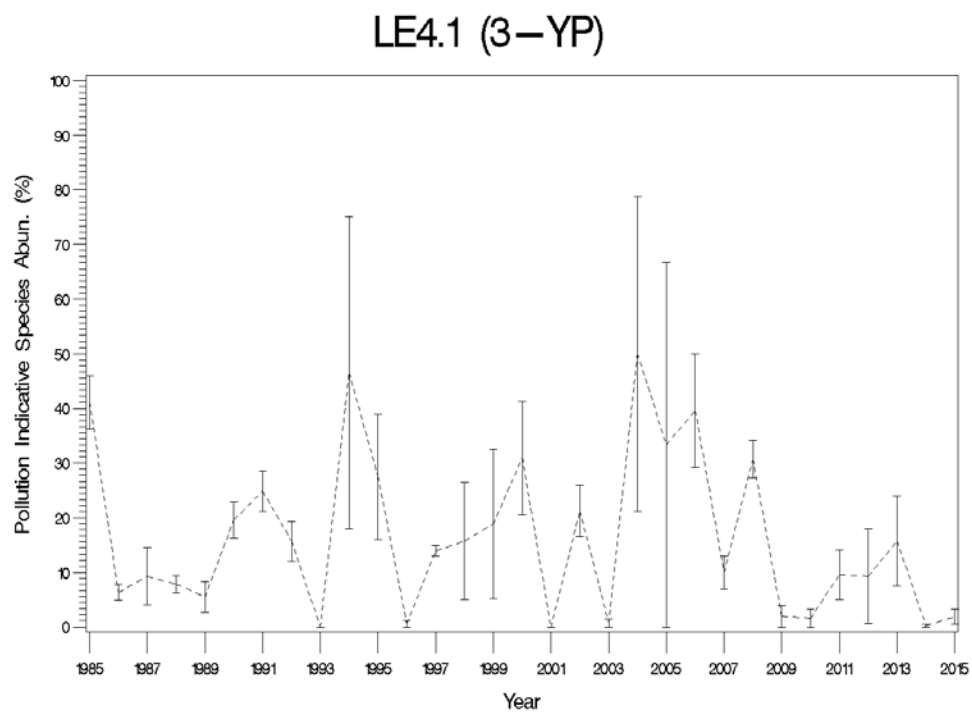


Figure 77. Plot of pollution indicative species abundance at station LE4.1 for 1985 through 2015.

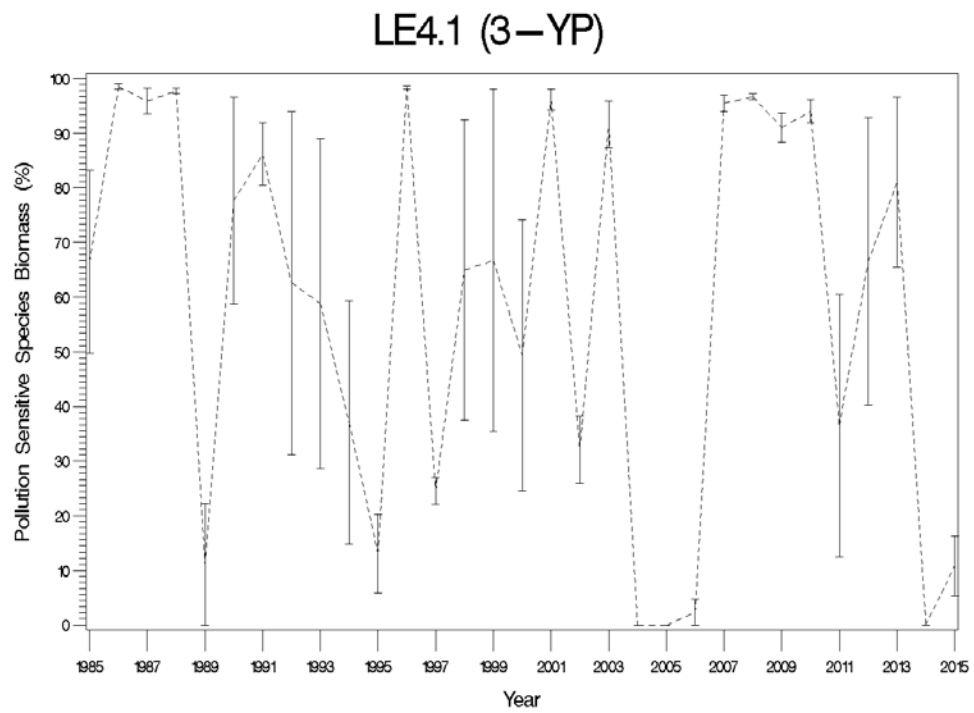


Figure 78. Plot of pollution sensitive species biomass at station LE4.1 for 1985 through 2015.

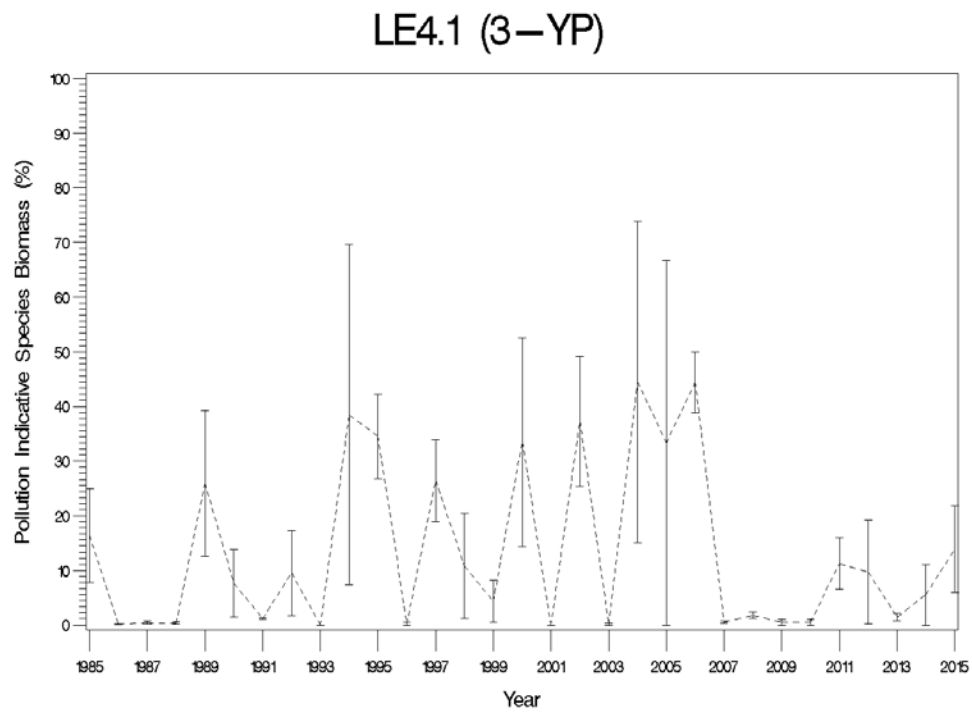


Figure 79. Plot of pollution indicative species biomass at station LE4.1 for 1985 through 2015.

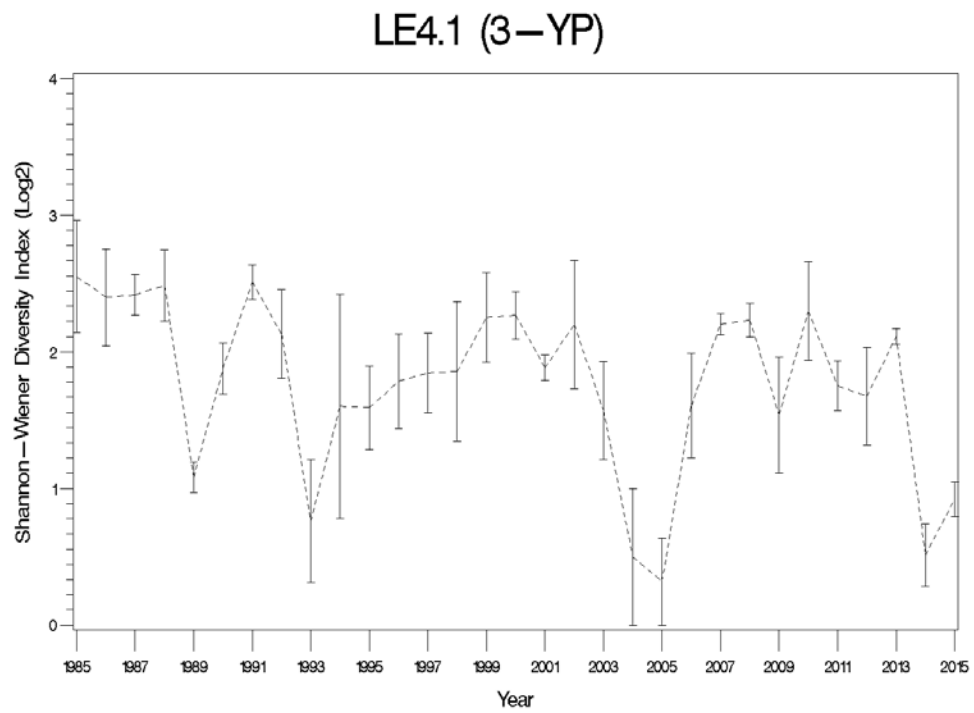


Figure 80. Plot of Shannon-Weiner diversity index at station LE4.1 for 1985 through 2015.

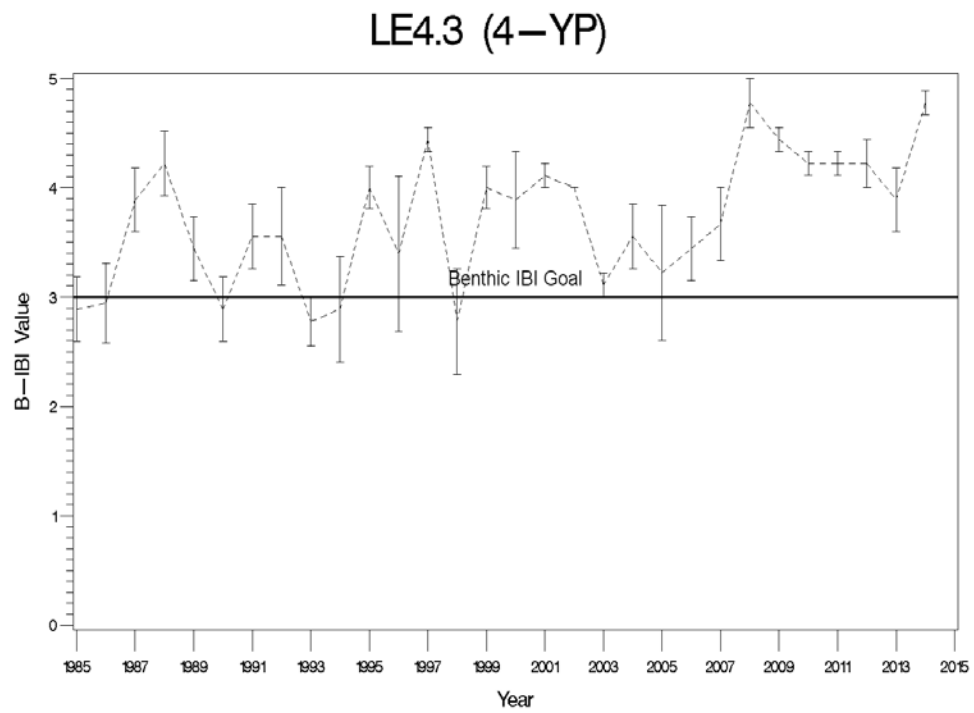


Figure 81. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2015.

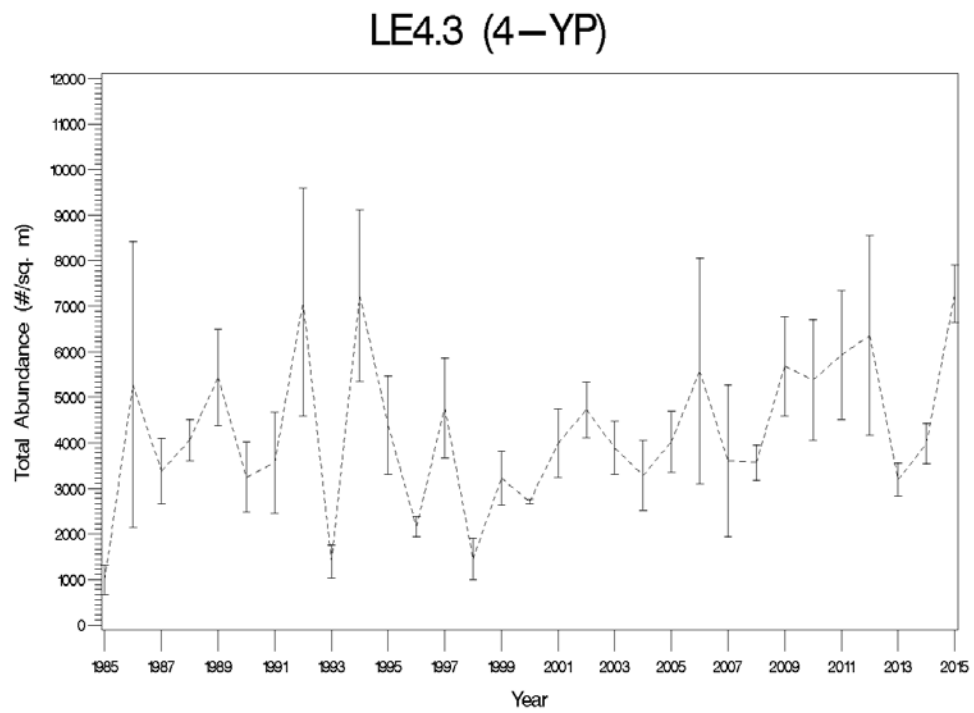


Figure 82. Plot of total benthic community abundance at station LE4.3 for 1985 through 2015.

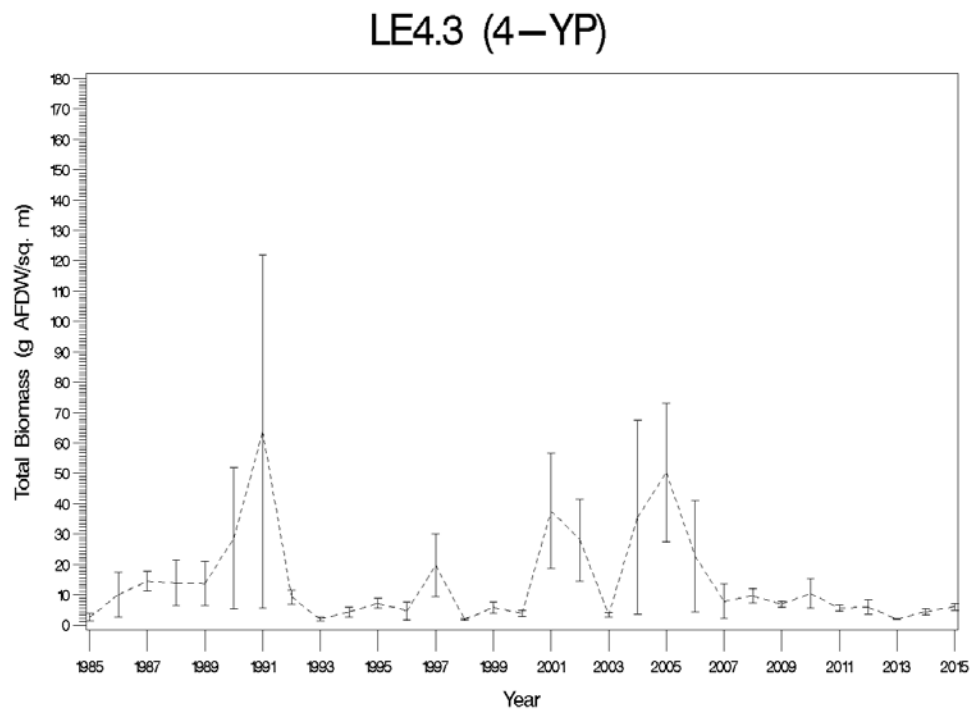


Figure 83. Plot of total benthic community biomass at station LE4.3 for 1985 through 2015.

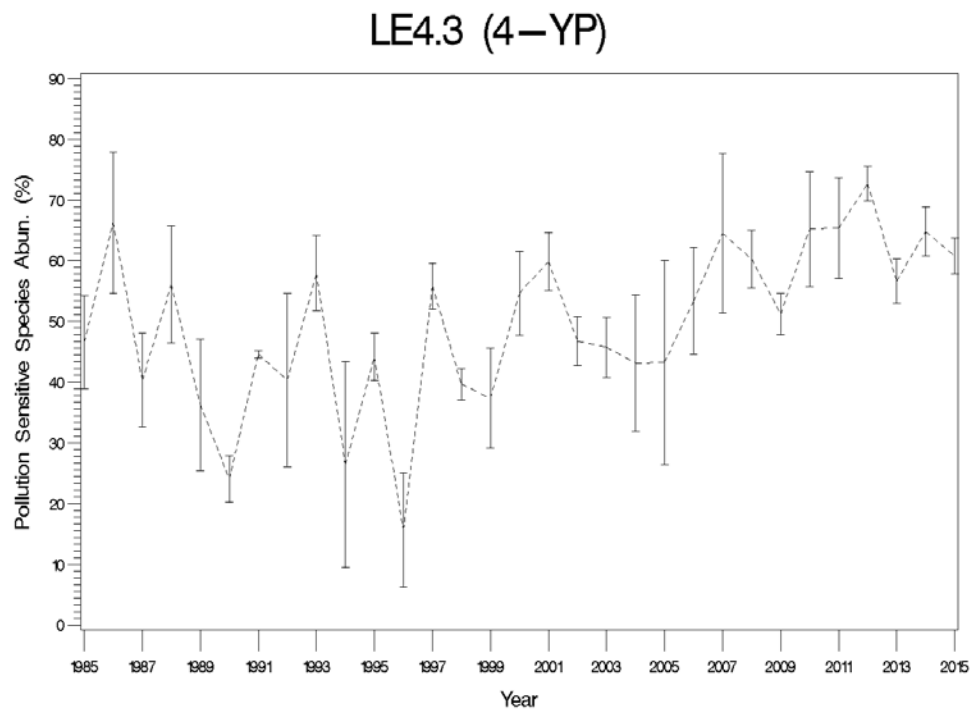


Figure 84. Plot of pollution sensitive species abundance at station LE4.3 for 1985 through 2015.

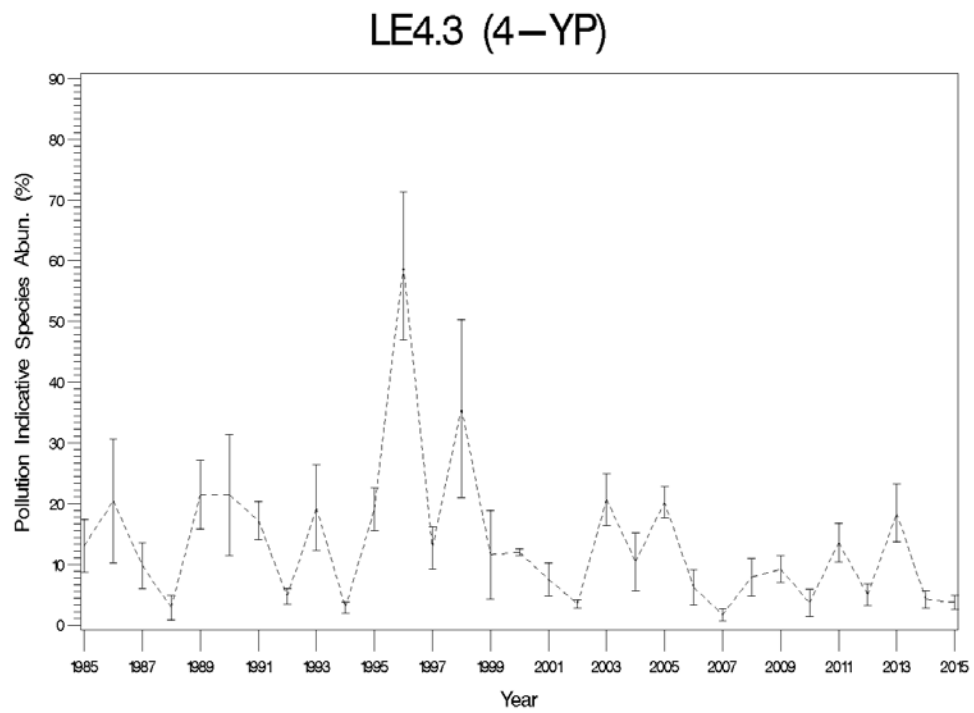


Figure 85. Plot of pollution indicative species abundance at station LE4.3 for 1985 through 2015.

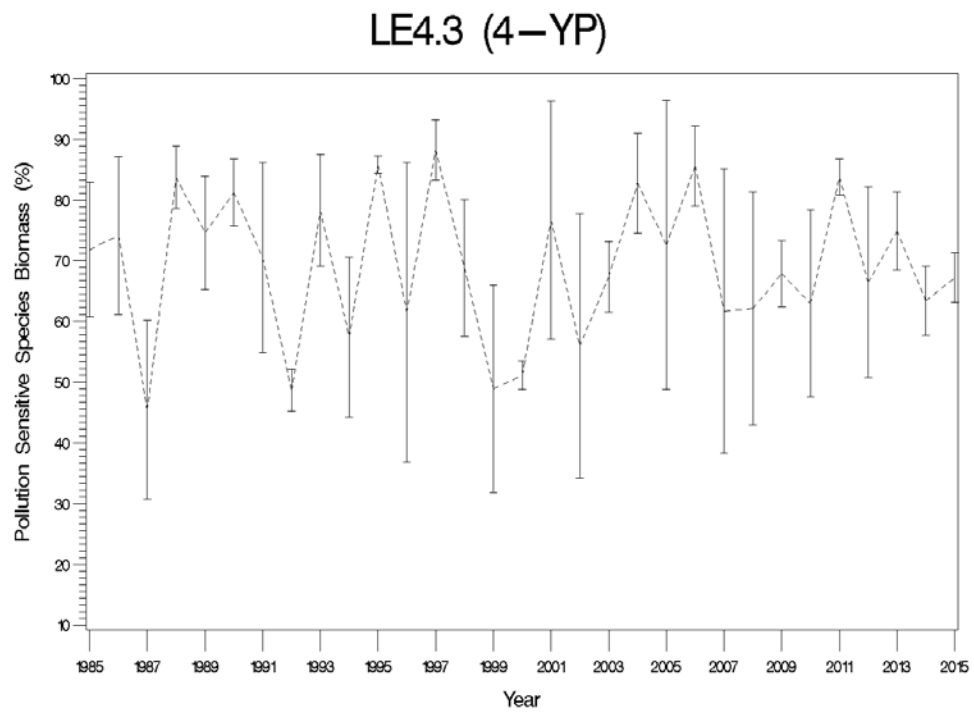


Figure 86. Plot of pollution sensitive species biomass at station LE4.3 for 1985 through 2015.

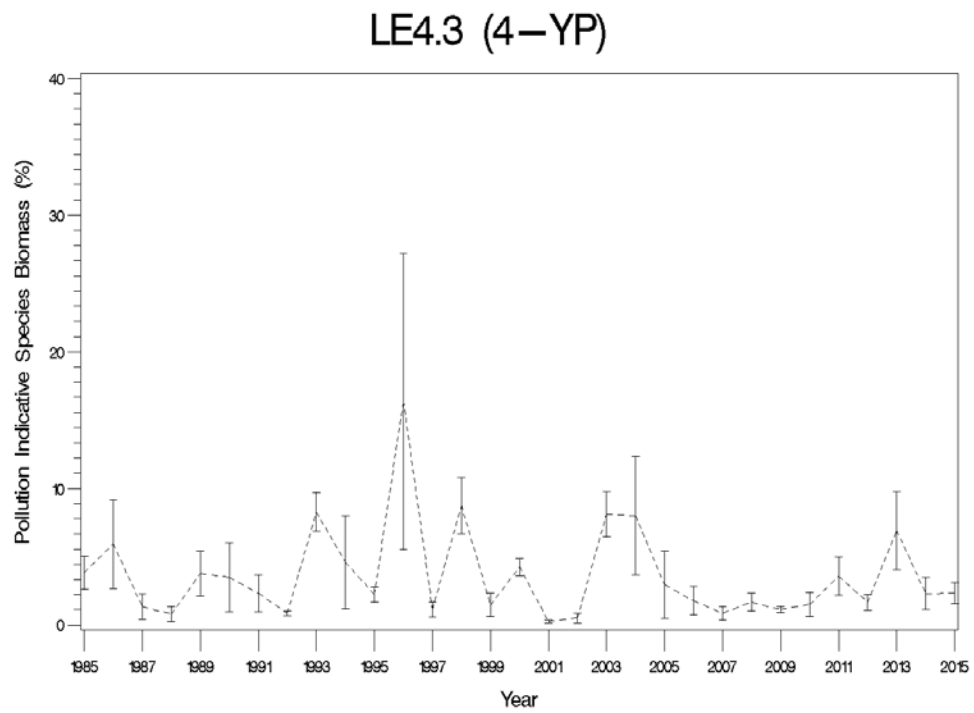


Figure 87. Plot of pollution indicative species biomass at station LE4.3 for 1985 through 2015.

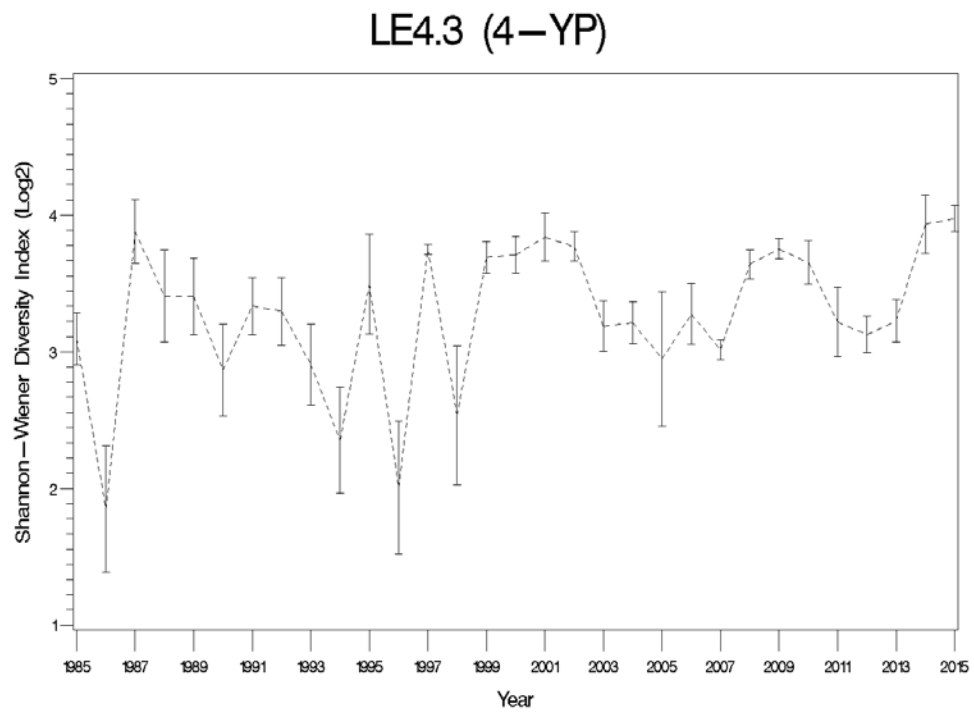


Figure 88. Plot of Shannon-Weiner diversity index at station LE4.3 for 1985 through 2015.

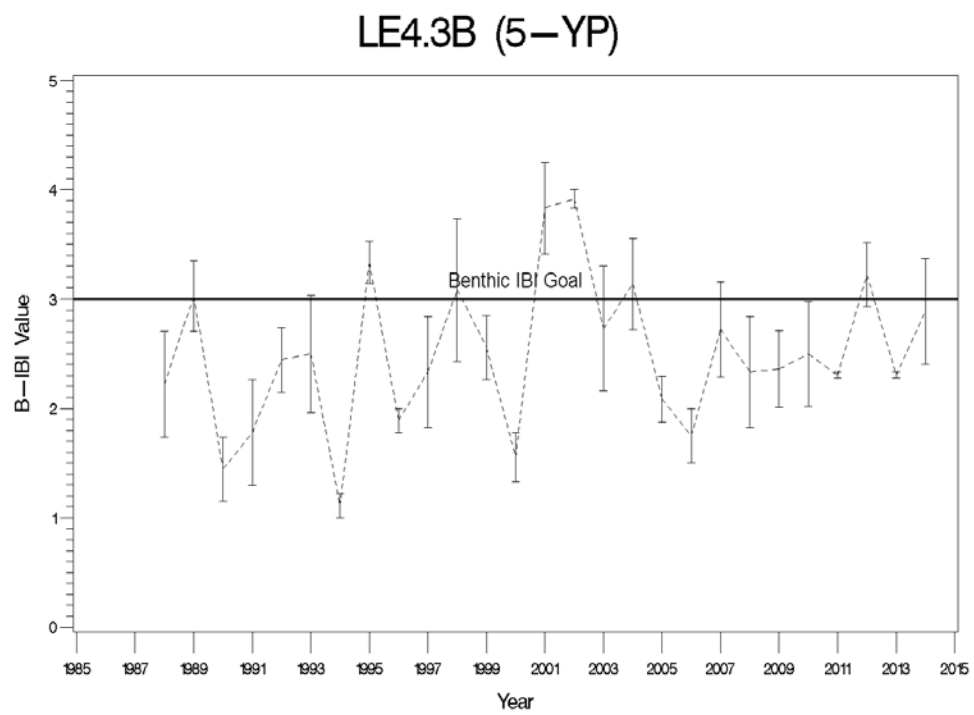


Figure 89. Plot of the benthic IBI against time at station LE4.3B for 1985 through 2015.

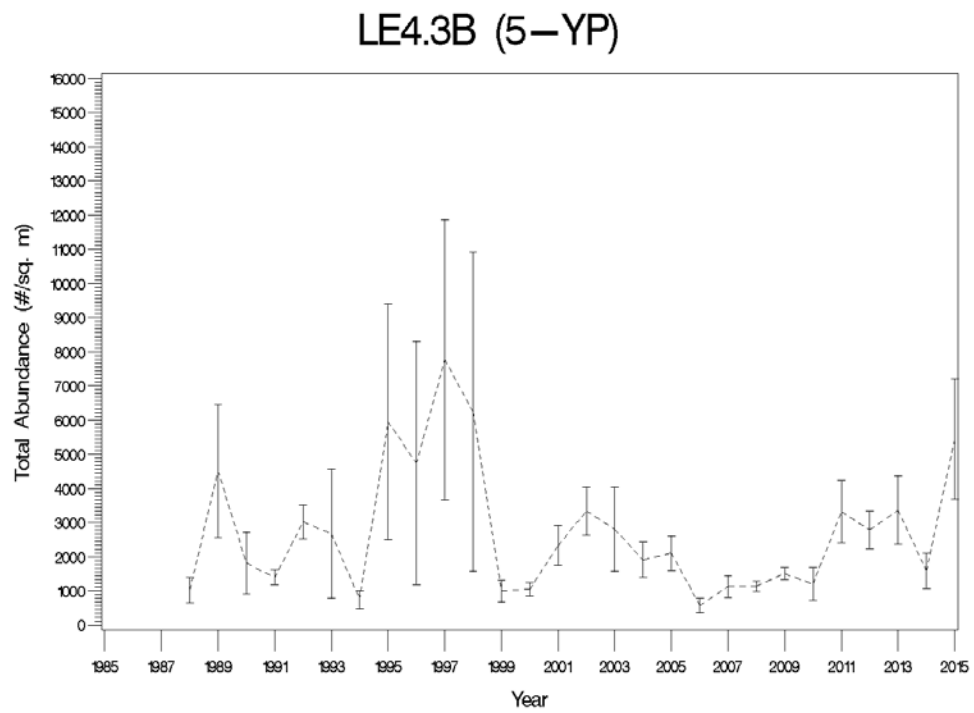


Figure 90. Plot of total benthic community abundance at station LE4.3B for 1985 through 2015.

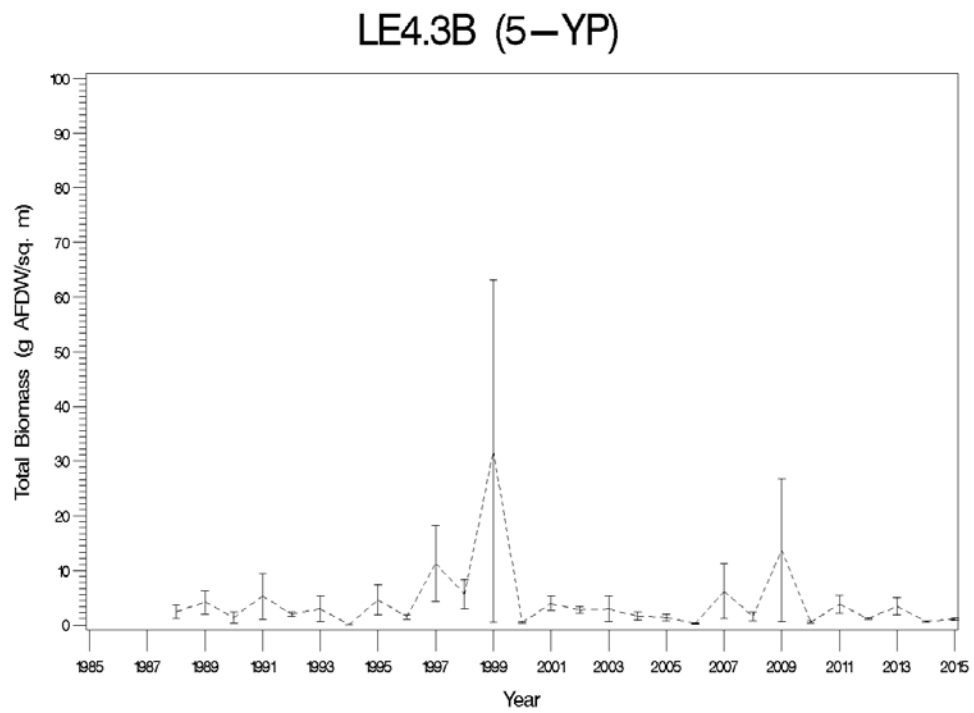


Figure 91. Plot of total benthic community biomass at station LE4.3B for 1985 through 2015.

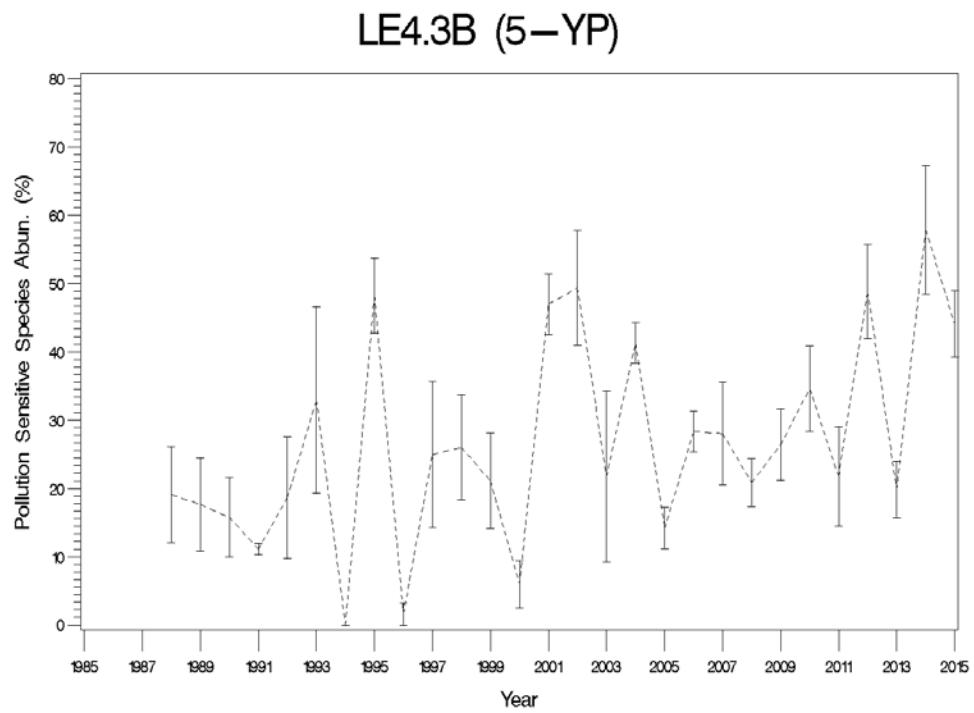


Figure 92. Plot of pollution sensitive species abundance at station LE4.3B for 1985 through 2015.

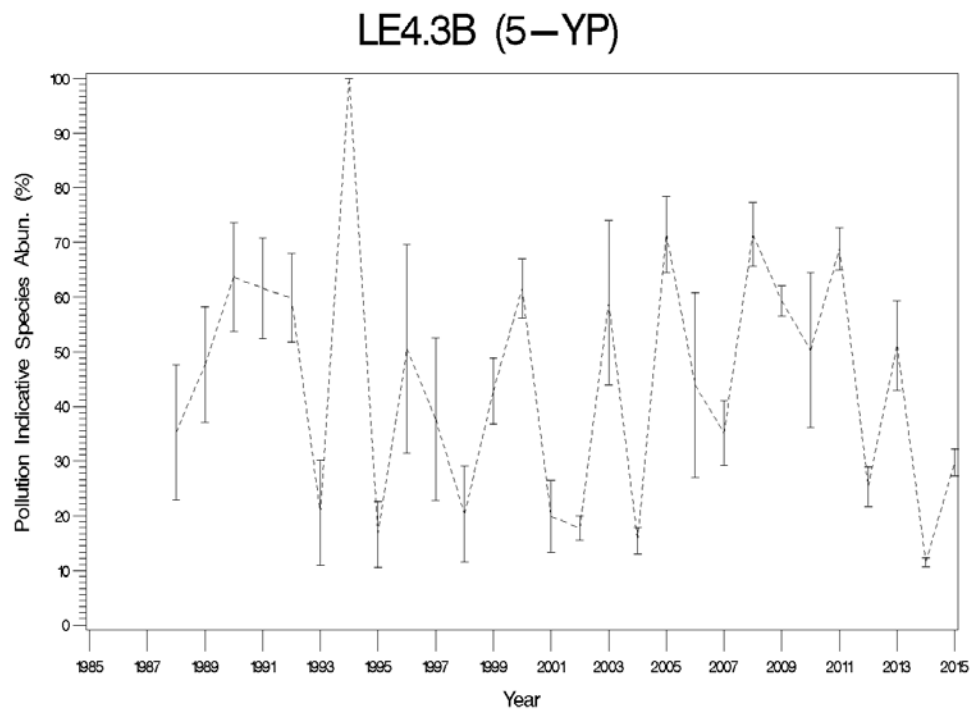


Figure 93. Plot of pollution indicative species abundance at station LE4.3B for 1985 through 2015.

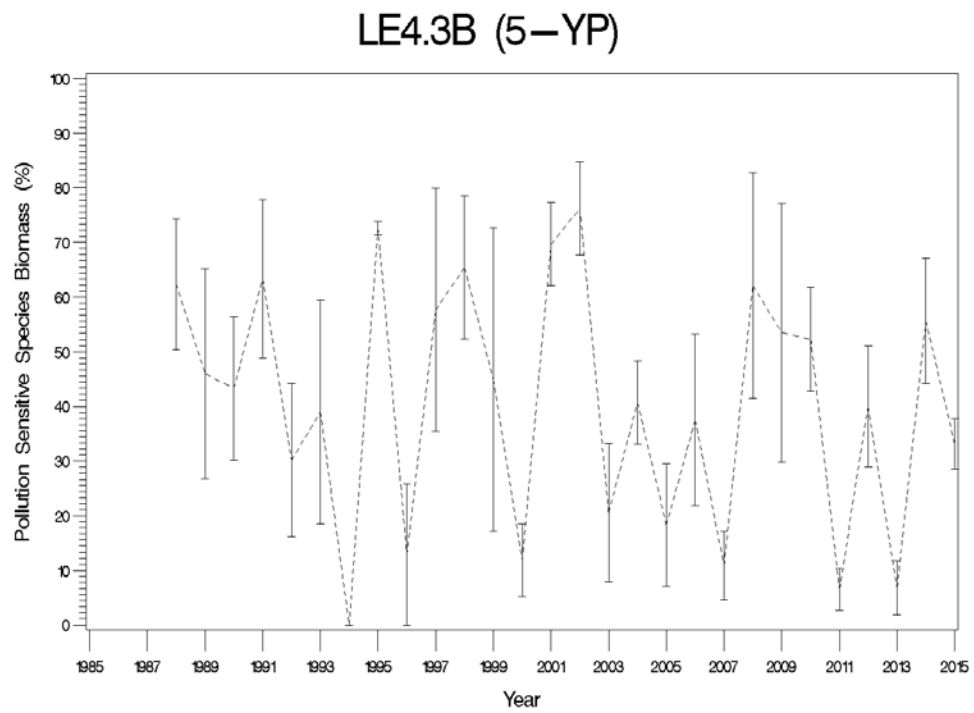


Figure 94. Plot of pollution sensitive species biomass at station LE4.3B for 1985 through 2015.

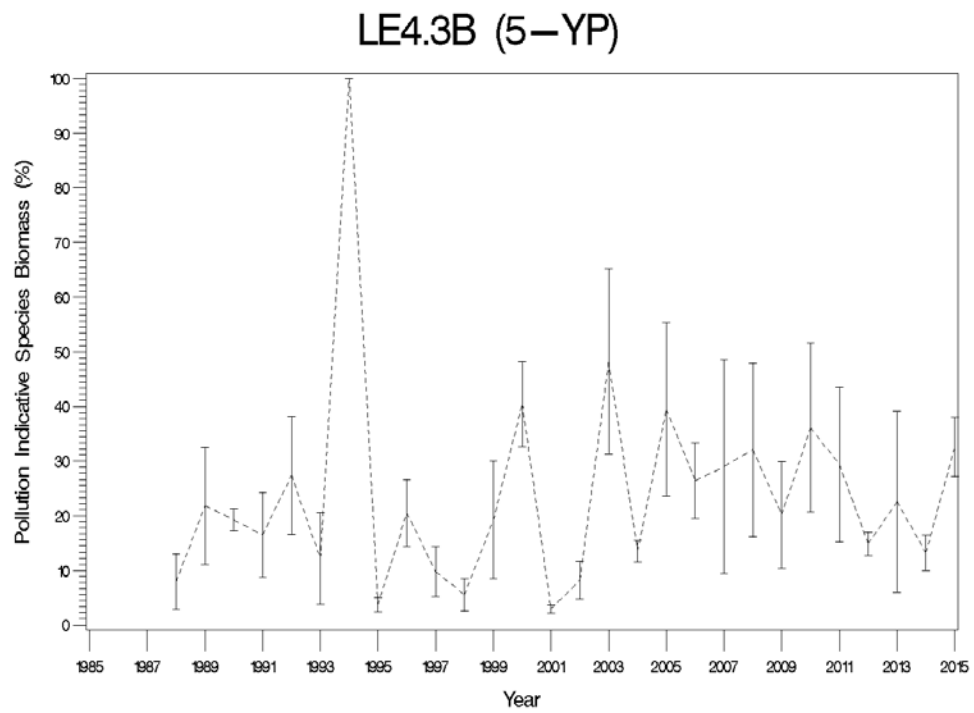


Figure 95. Plot of pollution indicative species biomass at station LE4.3B for 1985 through 2015.

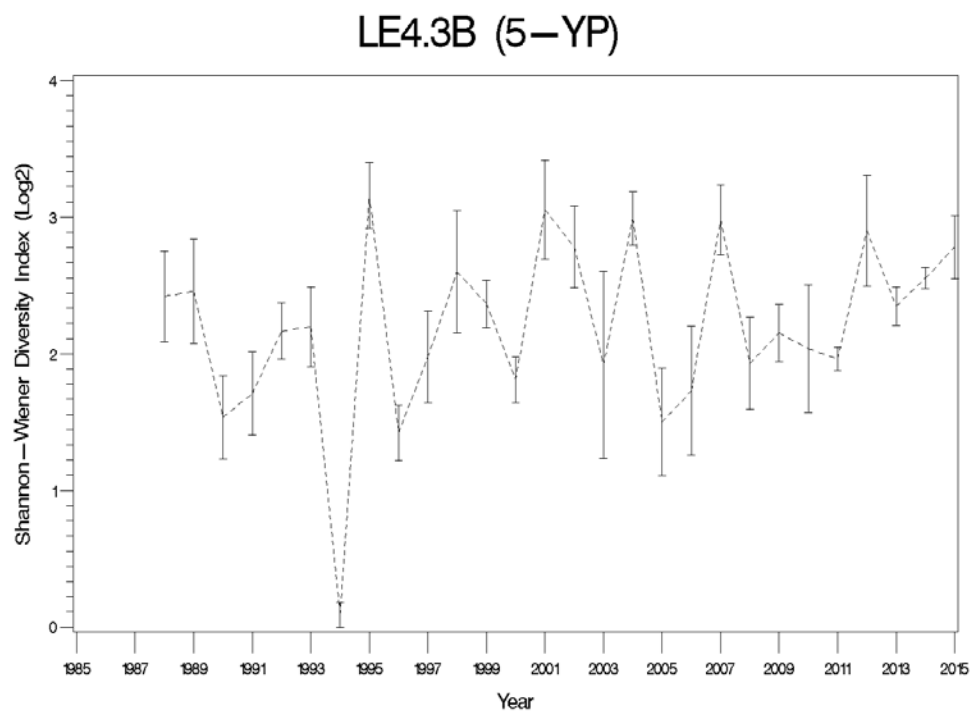


Figure 96. Plot of Shannon-Weiner diversity index at station LE4.3B for 1985 through 2015.

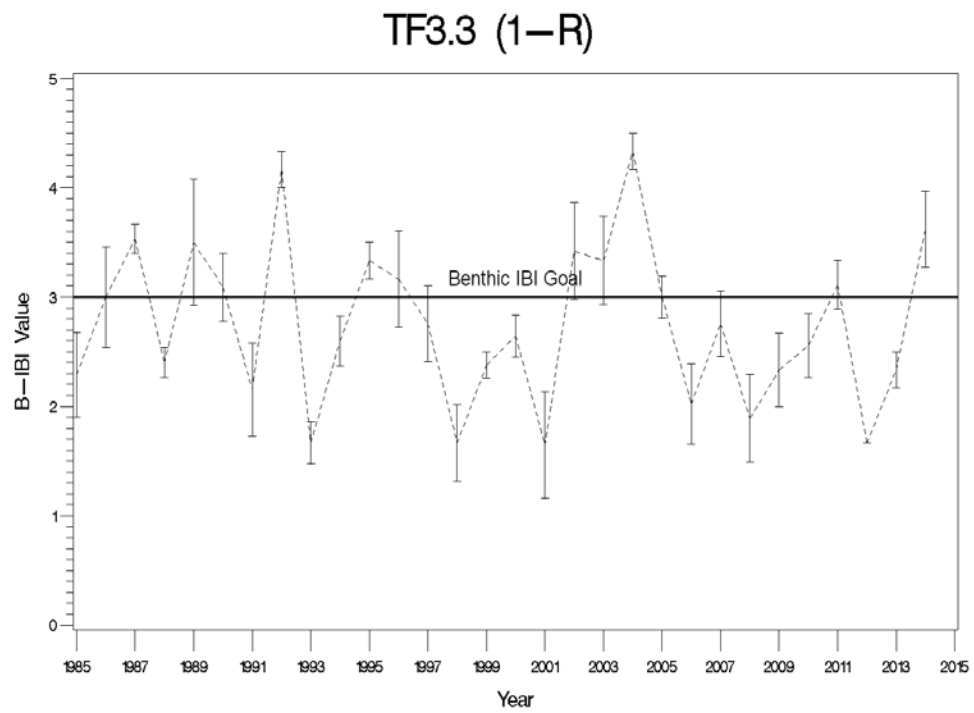


Figure 97. Plot of the benthic IBI against time at station TF3.3 for 1985 through 2015.

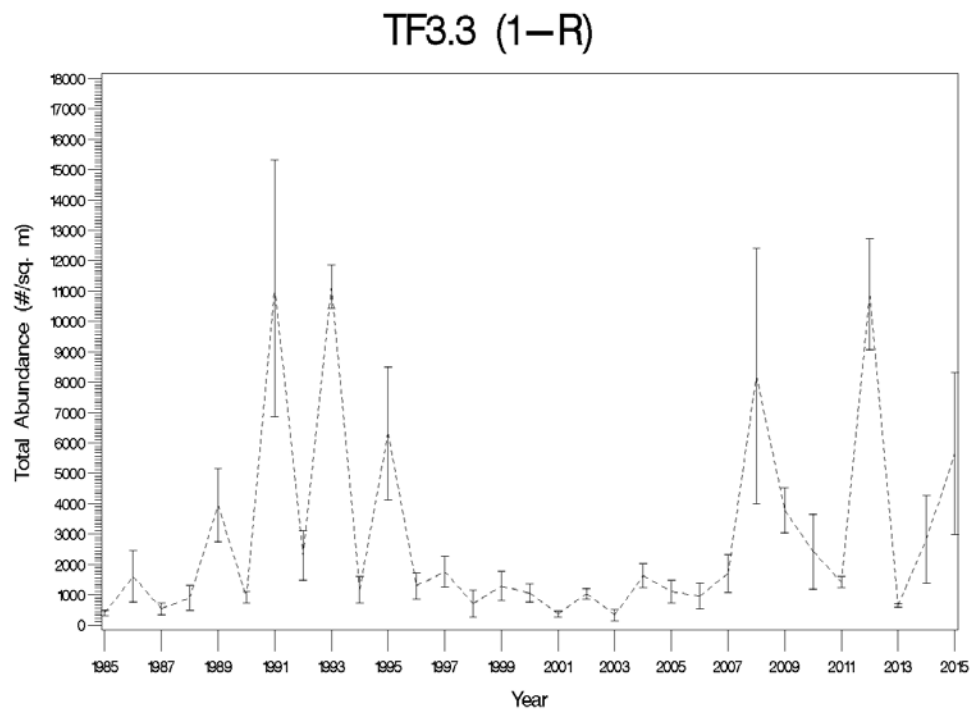


Figure 98. Plot of total benthic community abundance at station TF3.3 for 1985 through 2015.

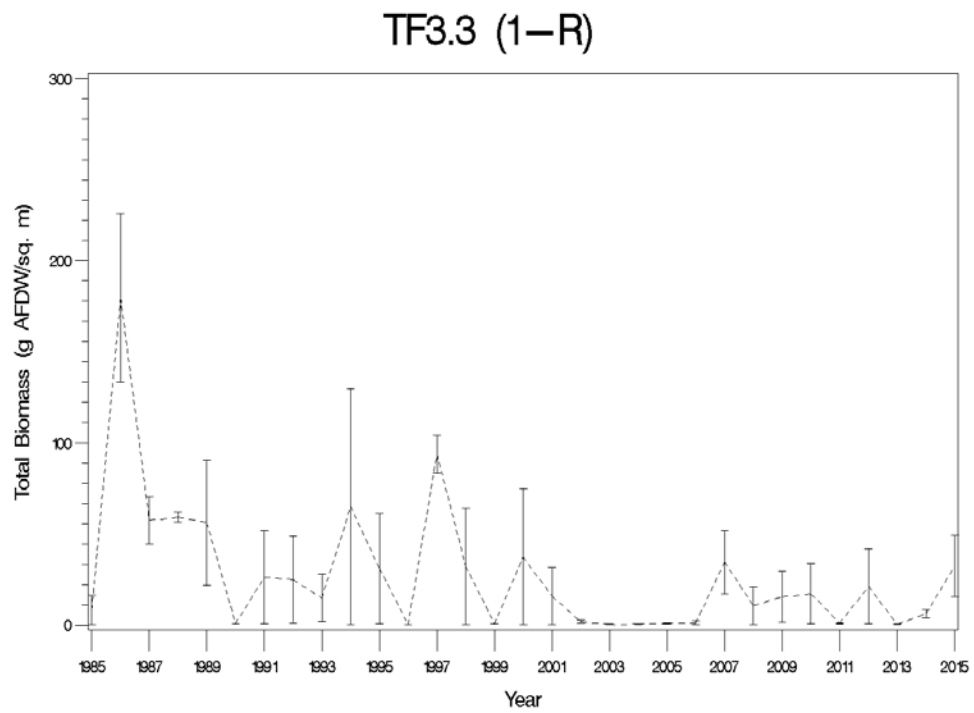


Figure 99. Plot of total benthic community biomass at station TF3.3 for 1985 through 2015.

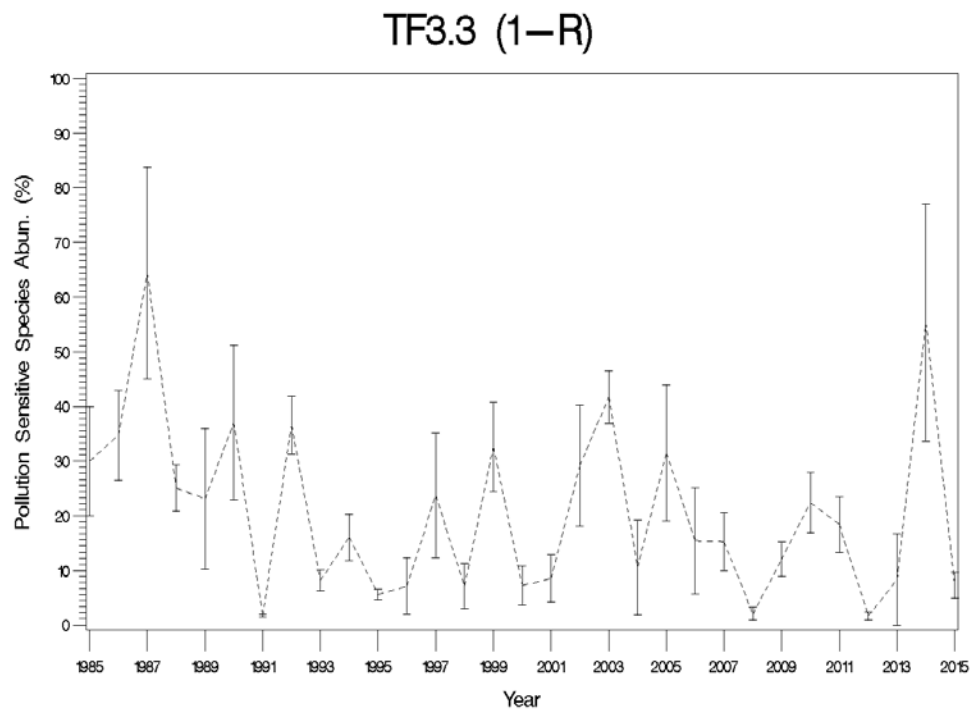


Figure 100. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2015.

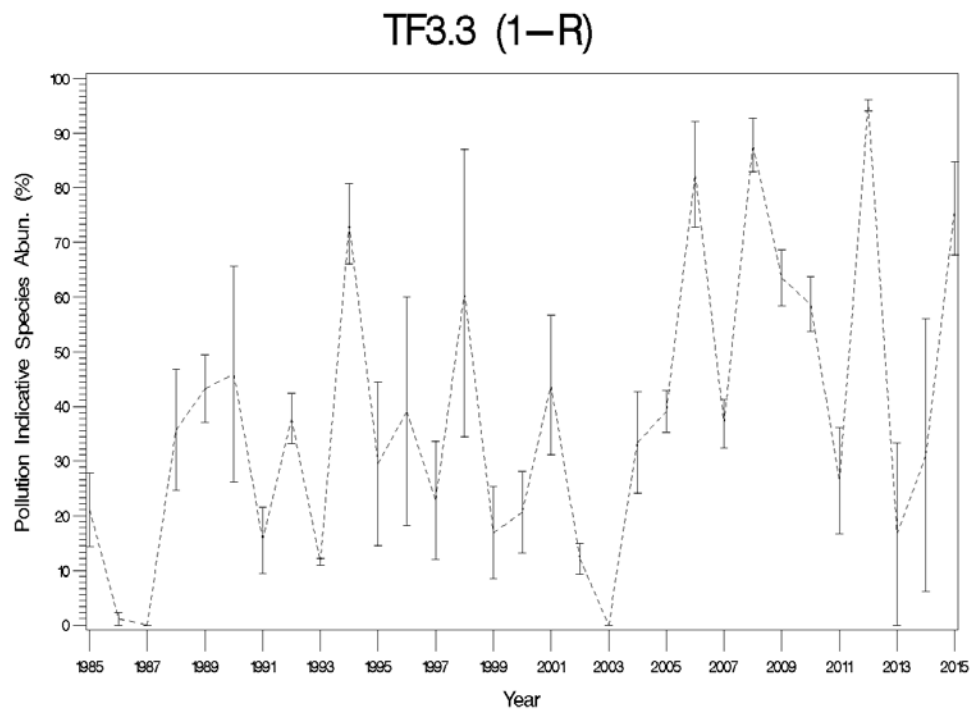


Figure 101. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2015.

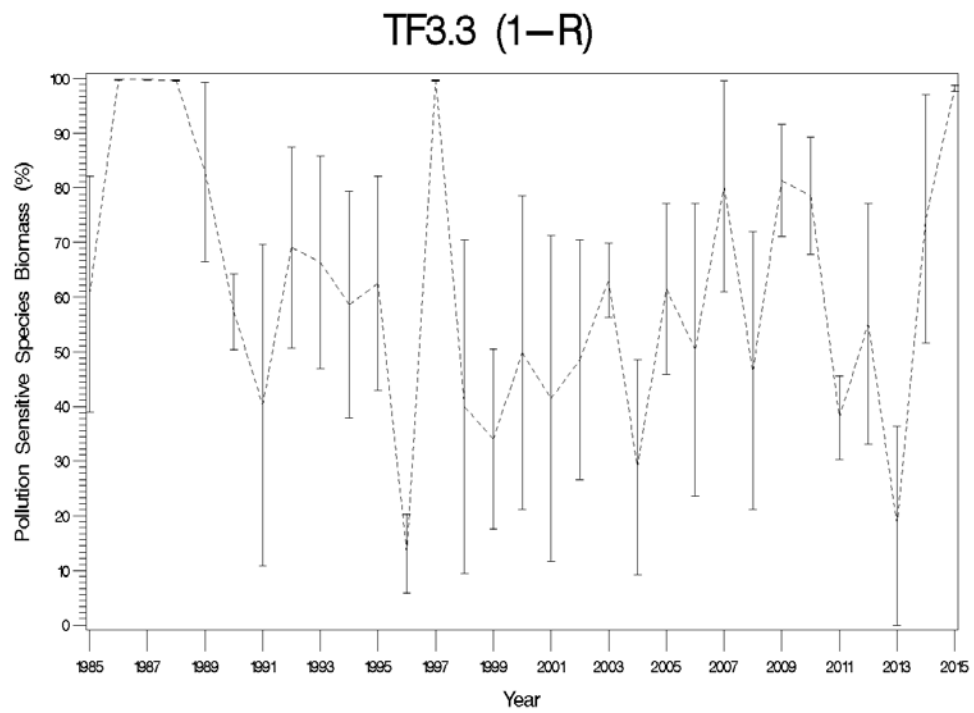


Figure 102. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2015.

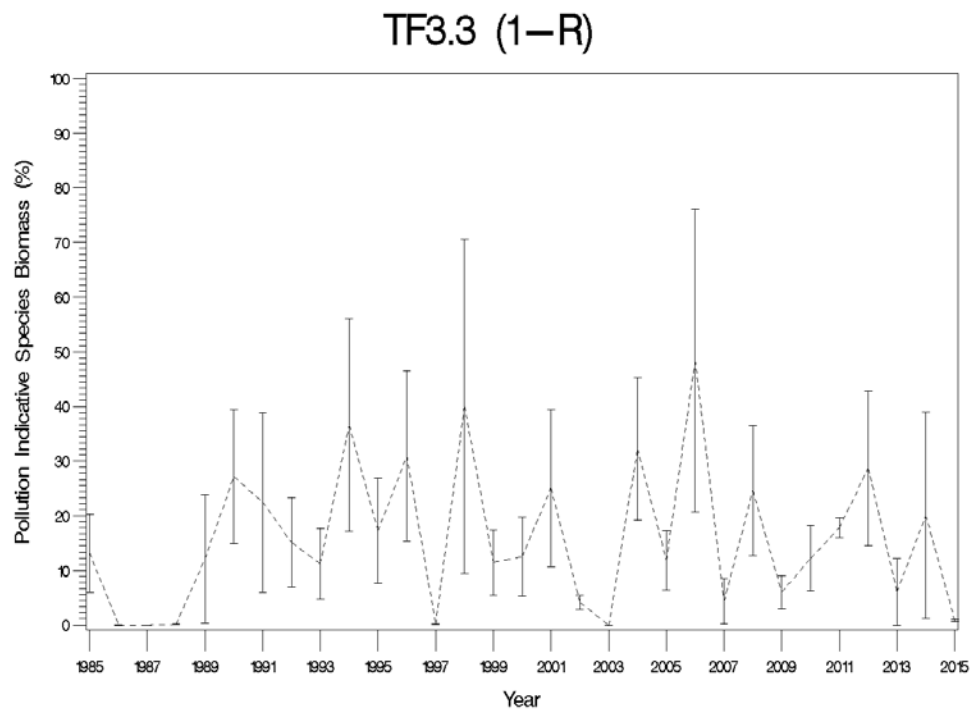


Figure 103. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2015.

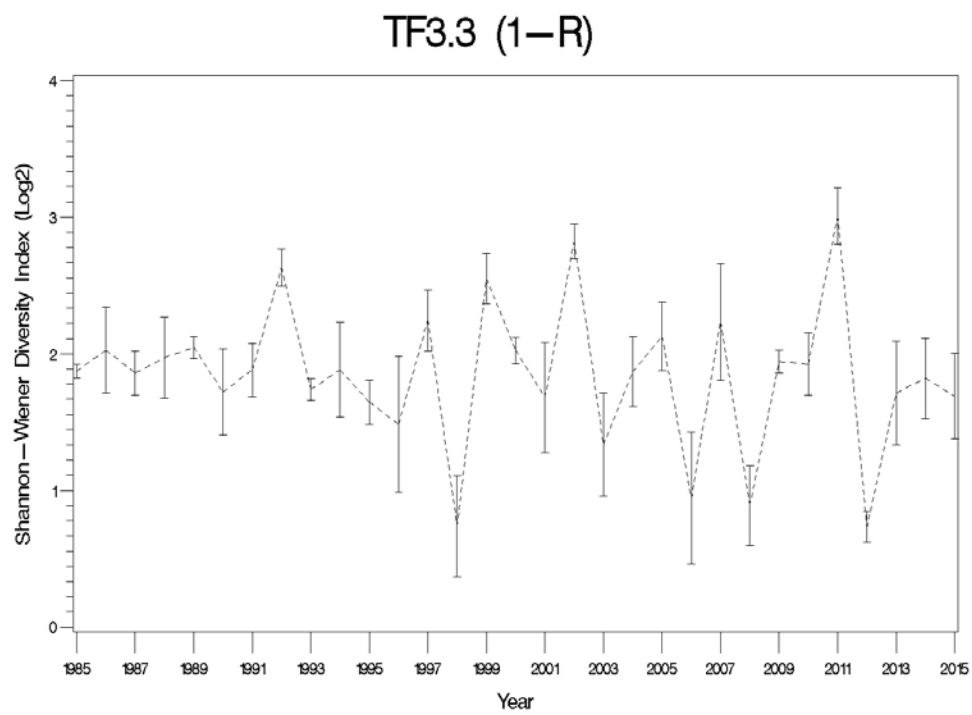


Figure 104. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2015.

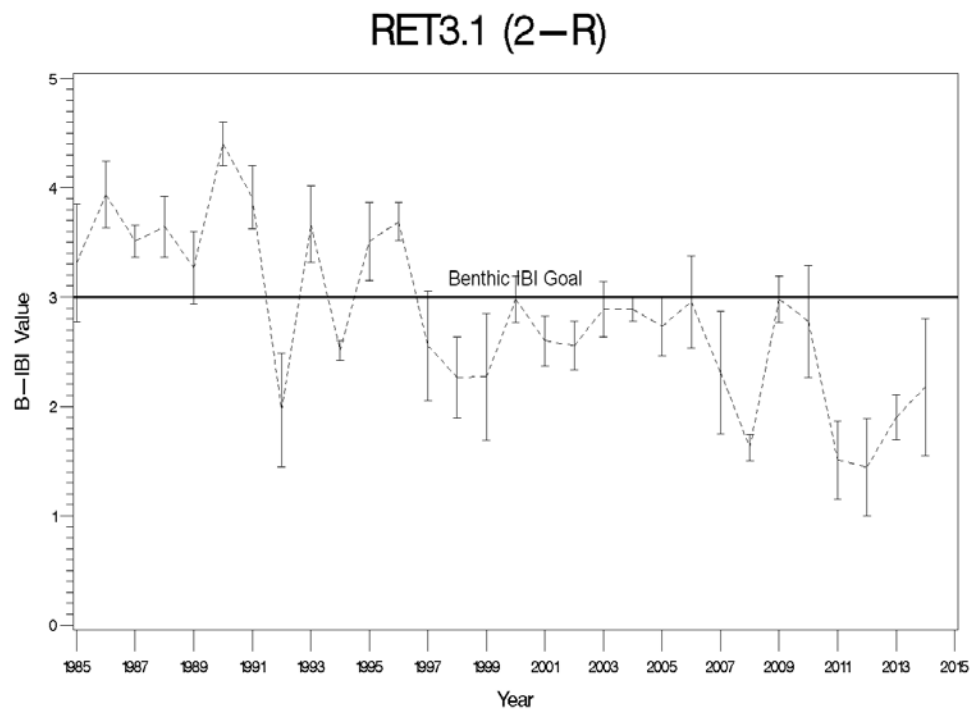


Figure 105. Plot of the benthic IBI against time at station RET3.1 for 1985 through 2015.

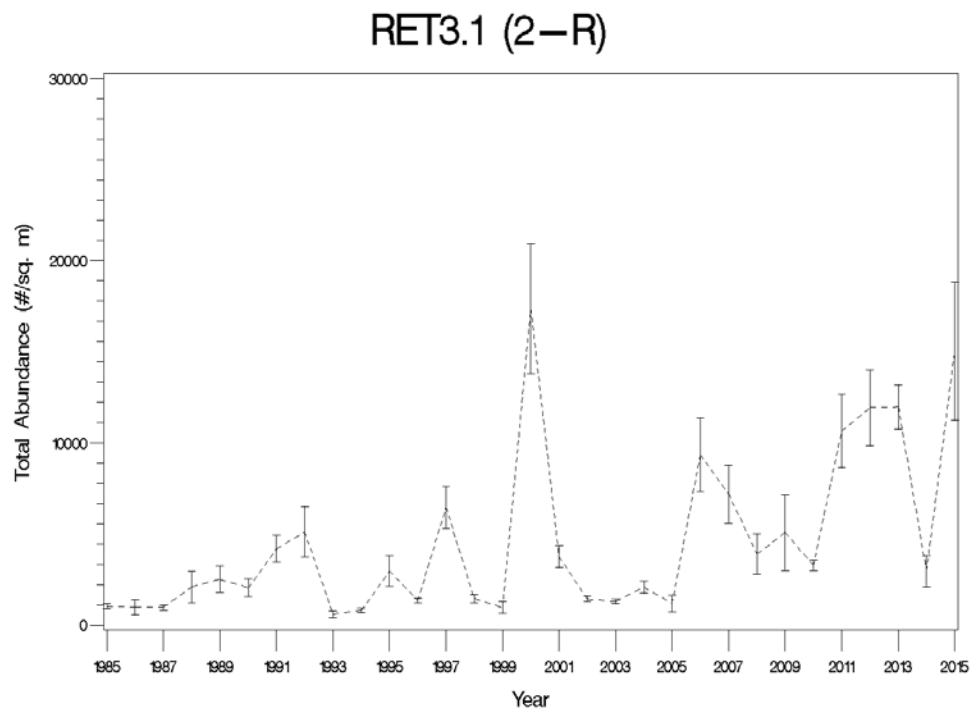


Figure 106. Plot of total benthic community abundance at station RET3.1 for 1985 through 2015.

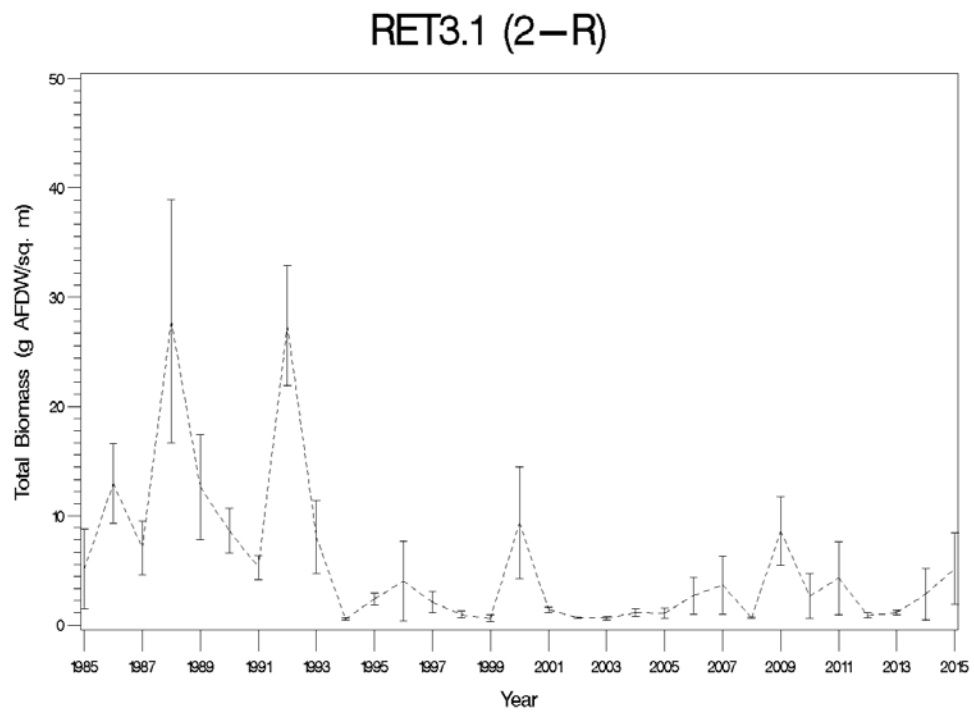


Figure 107. Plot of total benthic community biomass at station RET3.1 for 1985 through 2015.

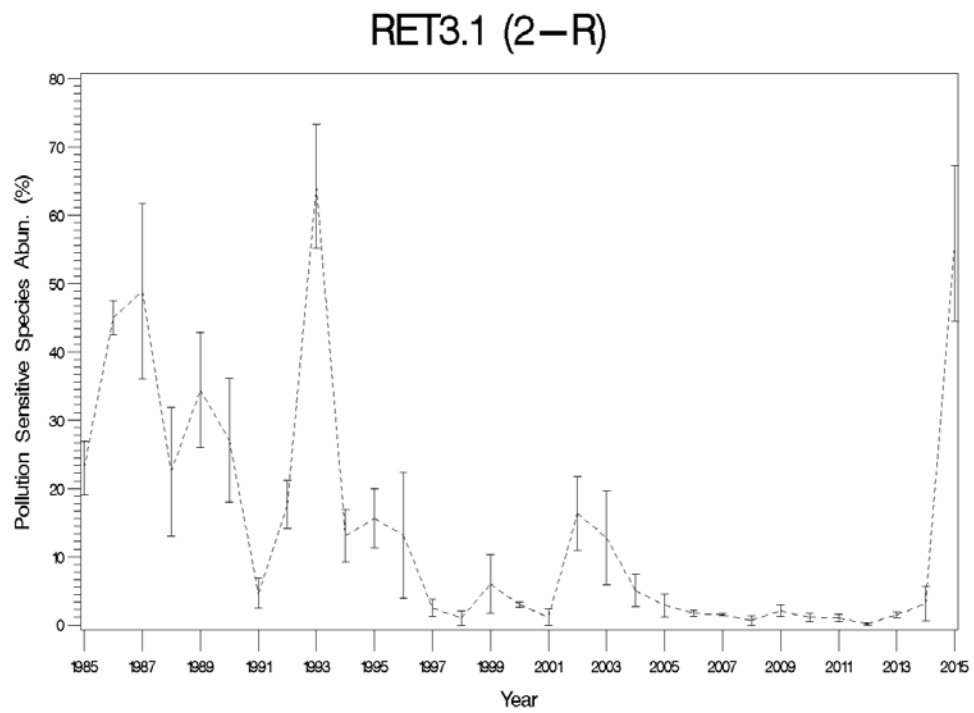


Figure 108. Plot of pollution sensitive species abundance at station RET3.1 for 1985 through 2015.

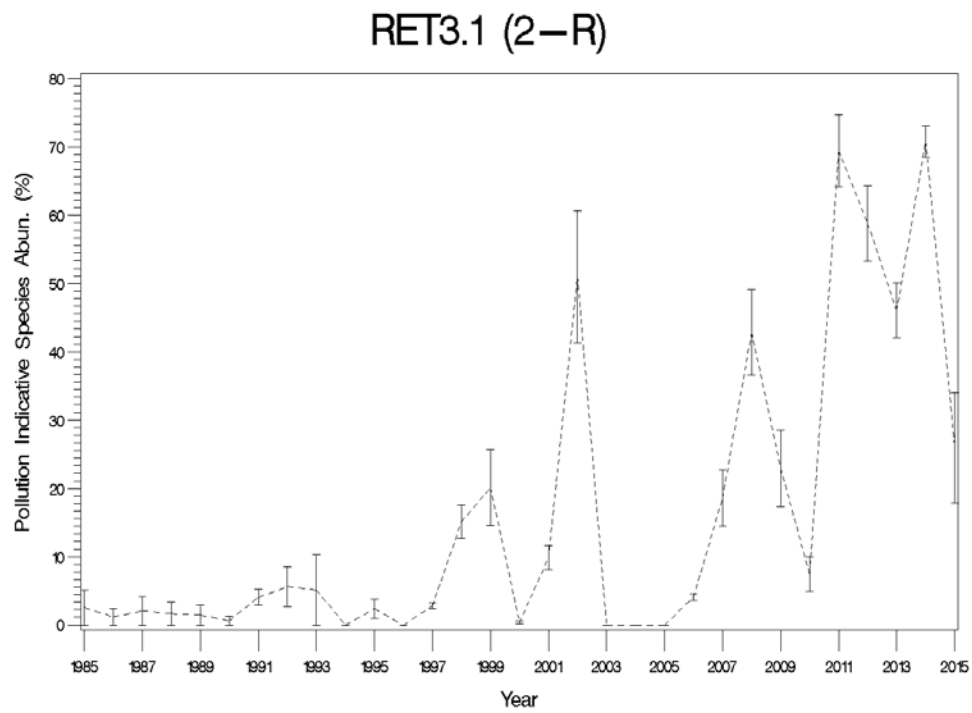


Figure 109. Plot of pollution indicative species abundance at station RET3.1 for 1985 through 2015.

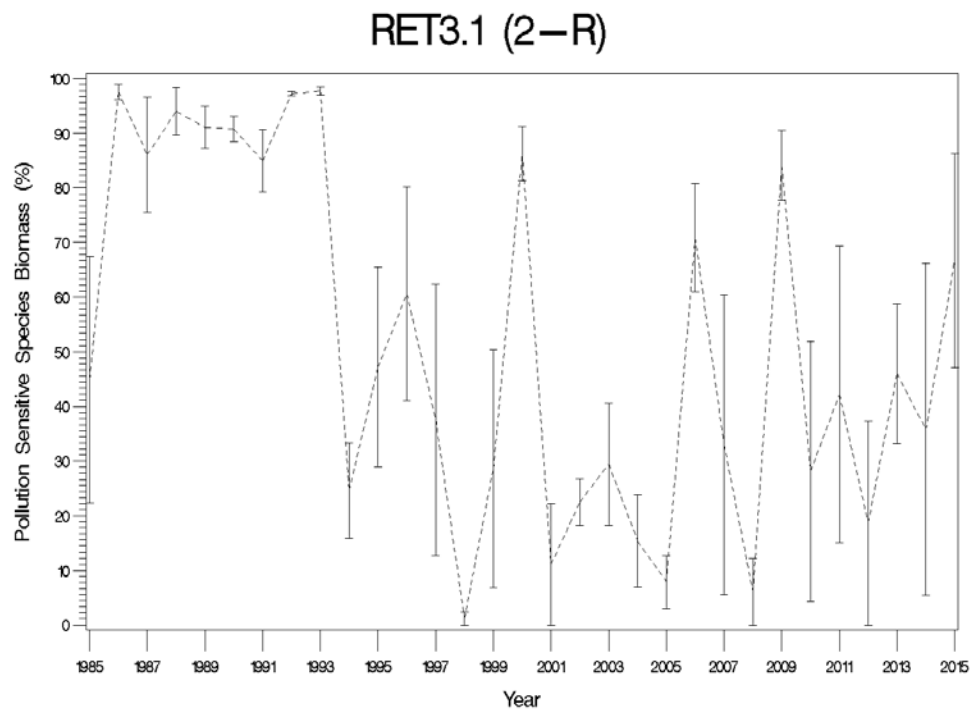


Figure 110. Plot of pollution sensitive species biomass at station RET3.1 for 1985 through 2015.

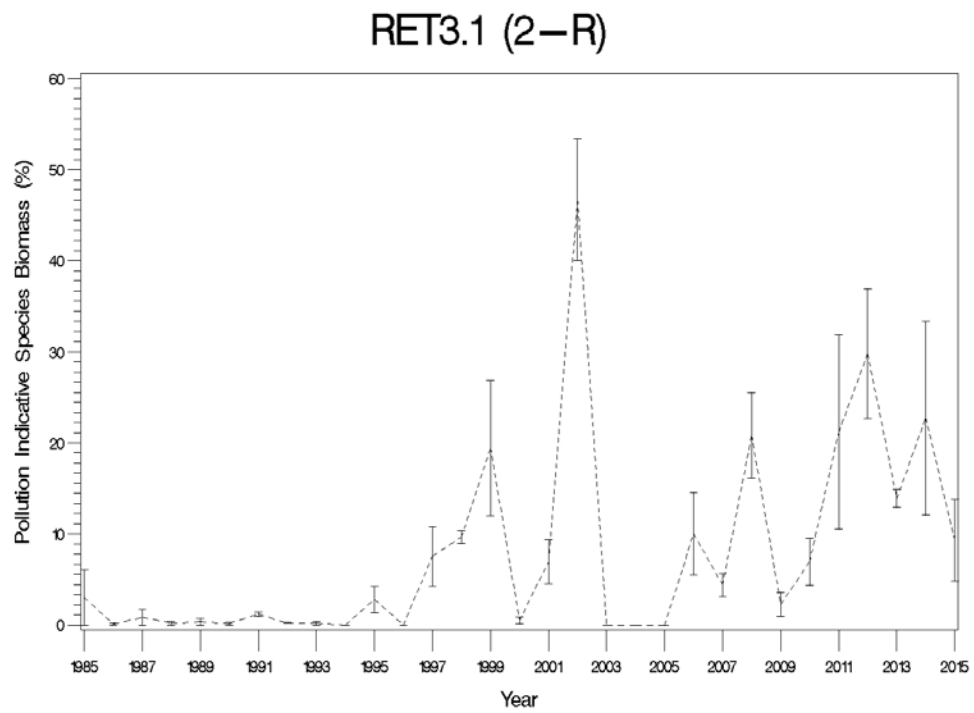


Figure 111. Plot of pollution indicative species biomass at station RET3.1 for 1985 through 2015.

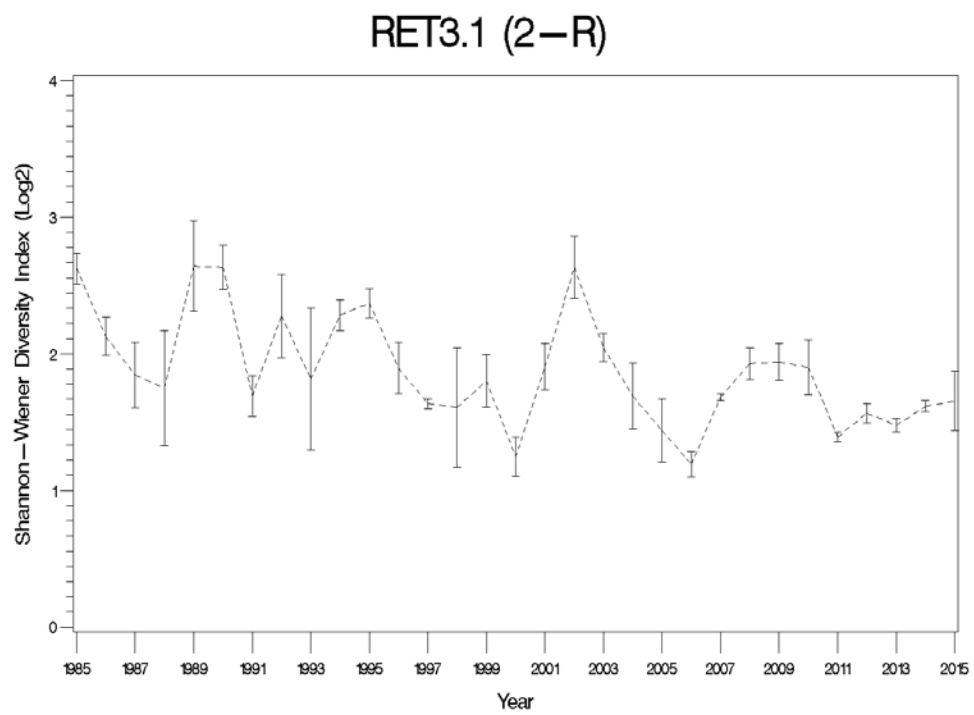


Figure 112. Plot of Shannon-Weiner diversity index at station RET3.1 for 1985 through 2015.

LE3.2 (3-R)

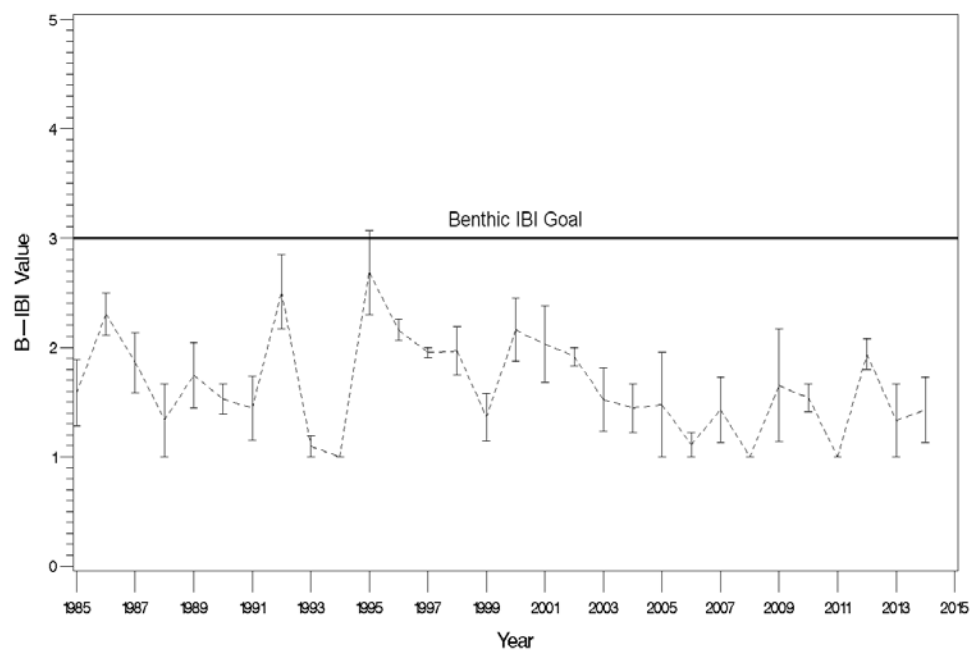


Figure 113. Plot of the benthic IBI against time at station LE3.2 for 1985 through 2015.

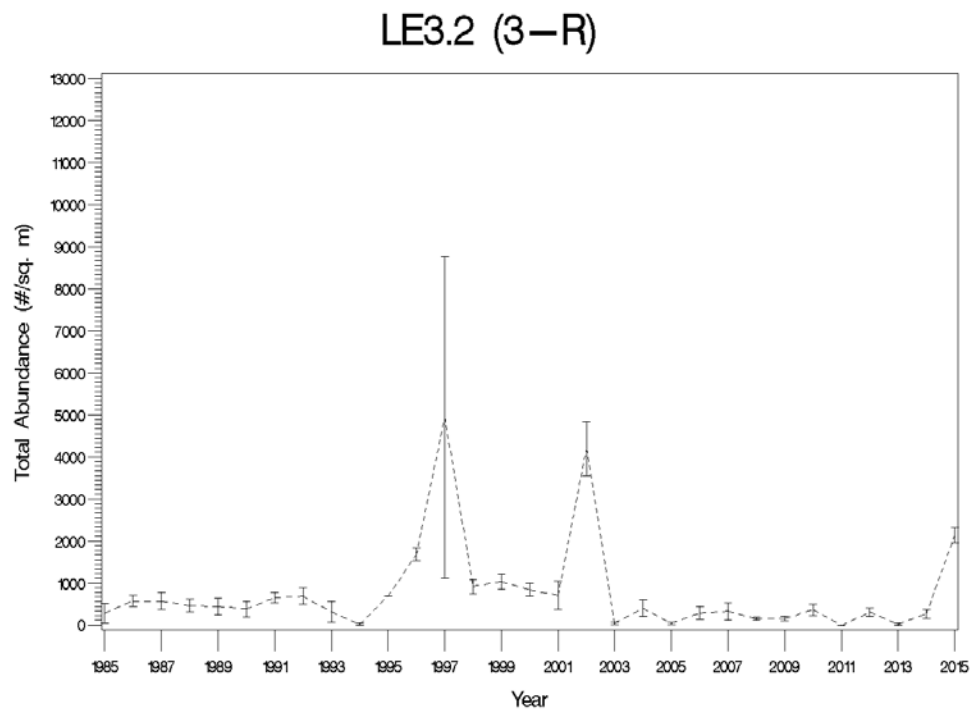


Figure 114. Plot of total benthic community abundance at station LE3.2 for 1985 through 2015.

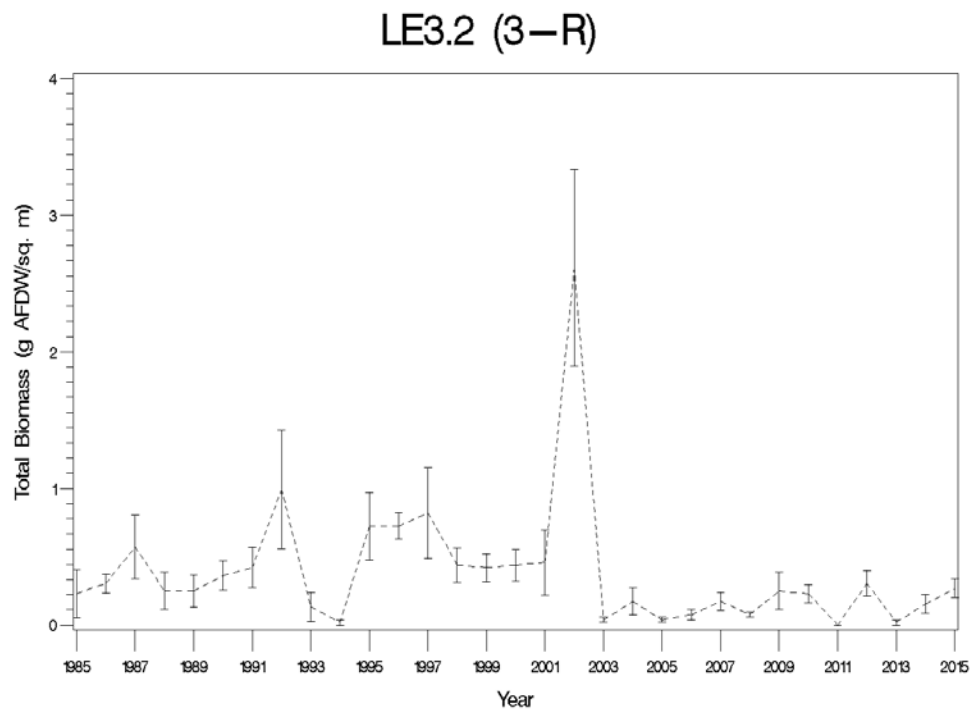


Figure 115. Plot of total benthic community biomass at station LE3.2 for 1985 through 2015.

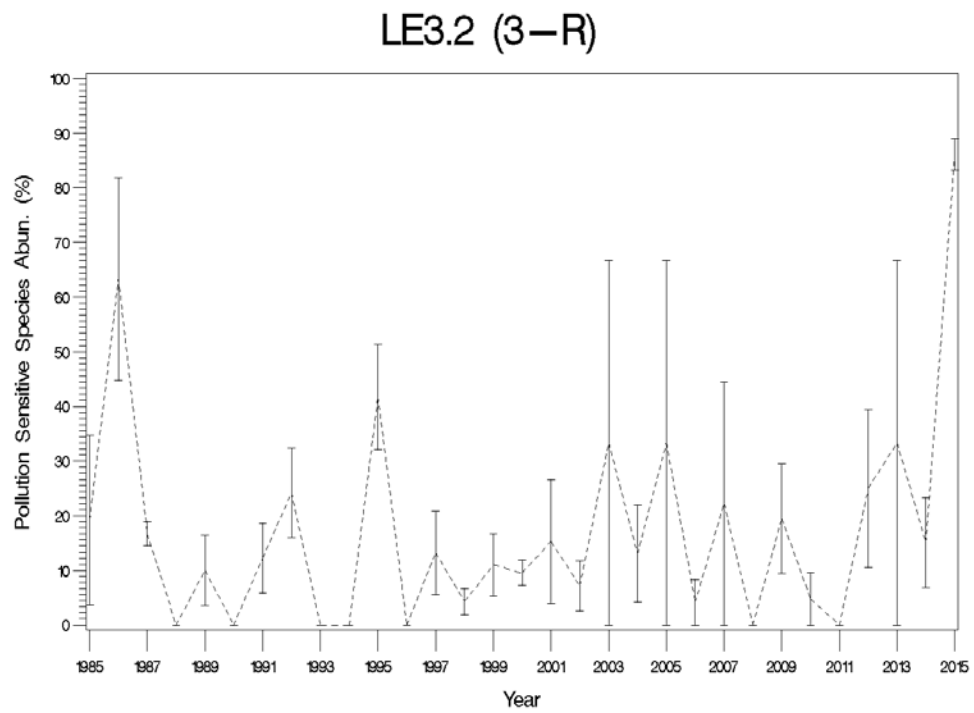


Figure 116. Plot of pollution sensitive species abundance at station LE3.2 for 1985 through 2015.

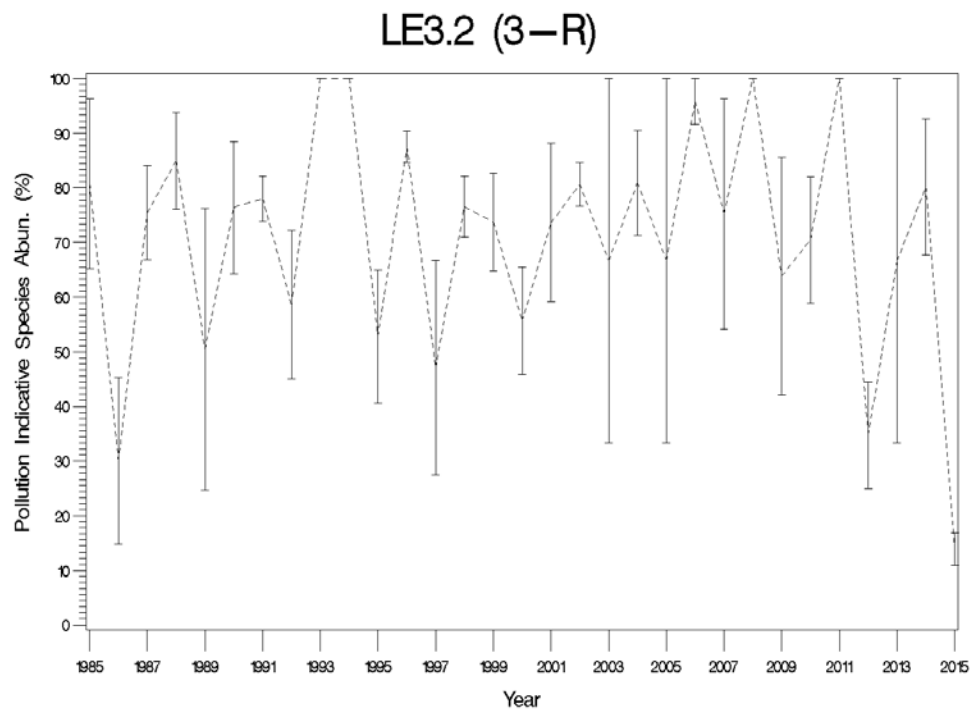


Figure 117. Plot of pollution indicative species abundance at station LE3.2 for 1985 through 2015.

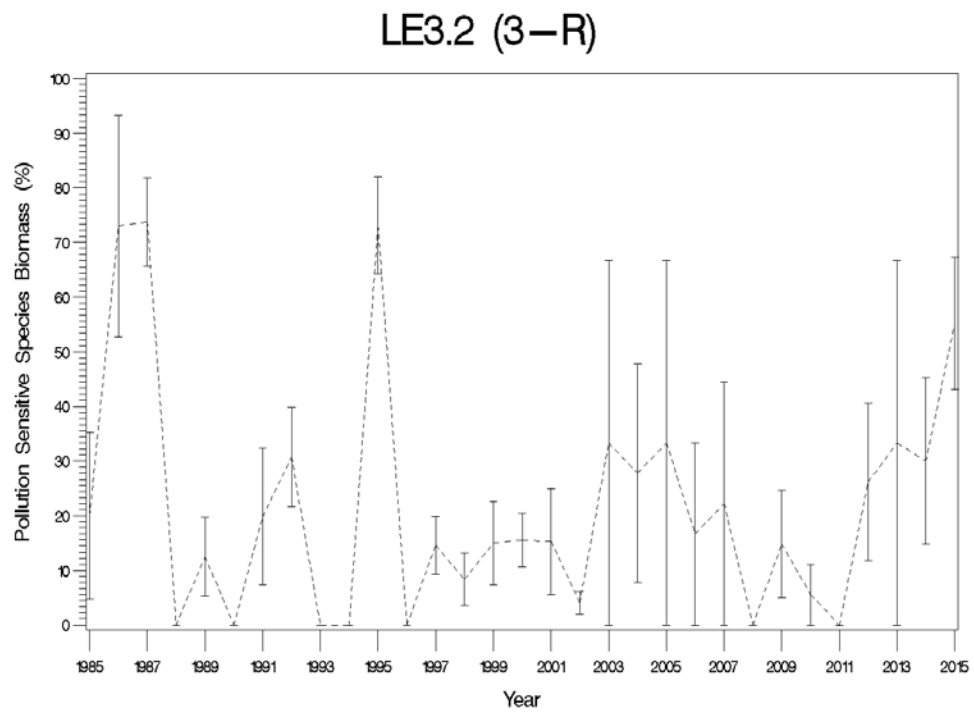


Figure 118. Plot of pollution sensitive species biomass at station LE3.2 for 1985 through 2015.

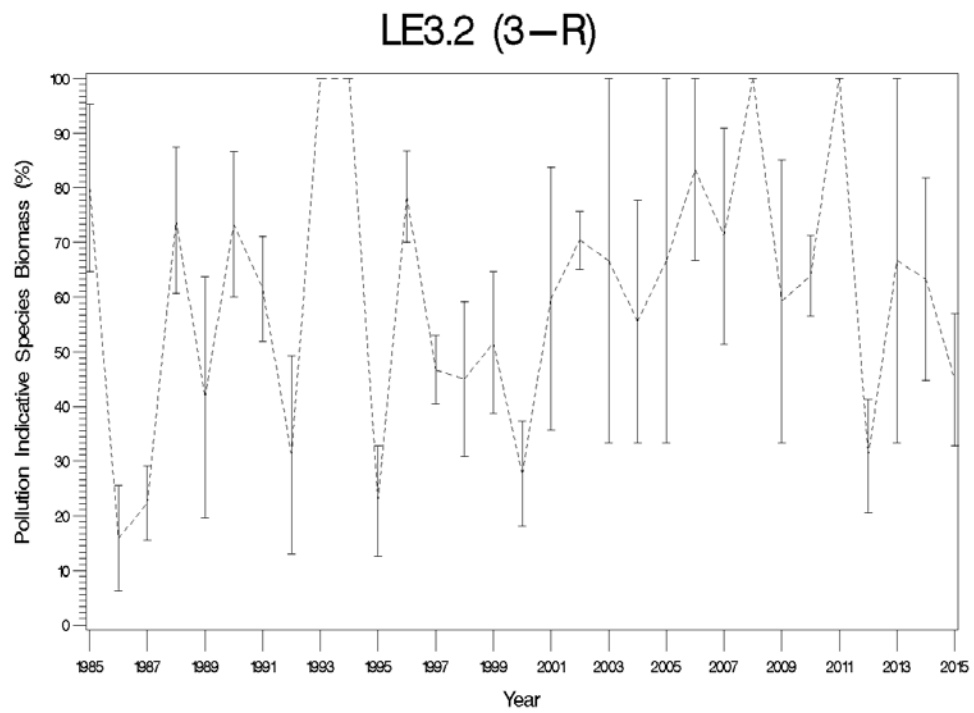


Figure 119. Plot of pollution indicative species biomass at station LE3.2 for 1985 through 2015.

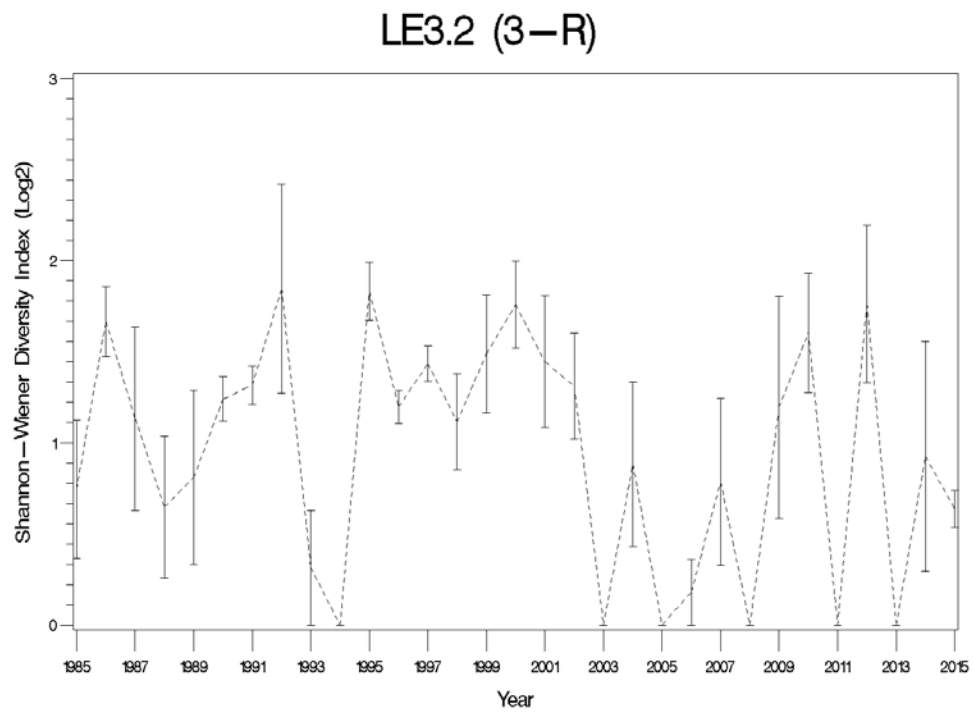


Figure 120. Plot of Shannon-Weiner diversity index at station LE3.2 for 1985 through 2015.

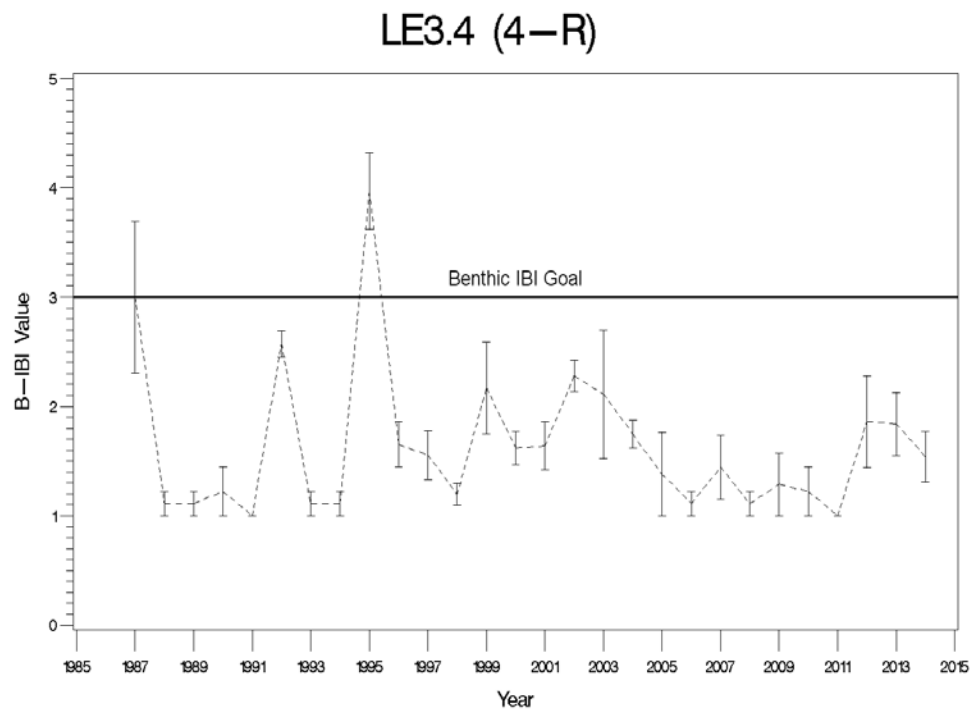


Figure 121. Plot of the benthic IBI against time at station LE3.4 for 1985 through 2015.

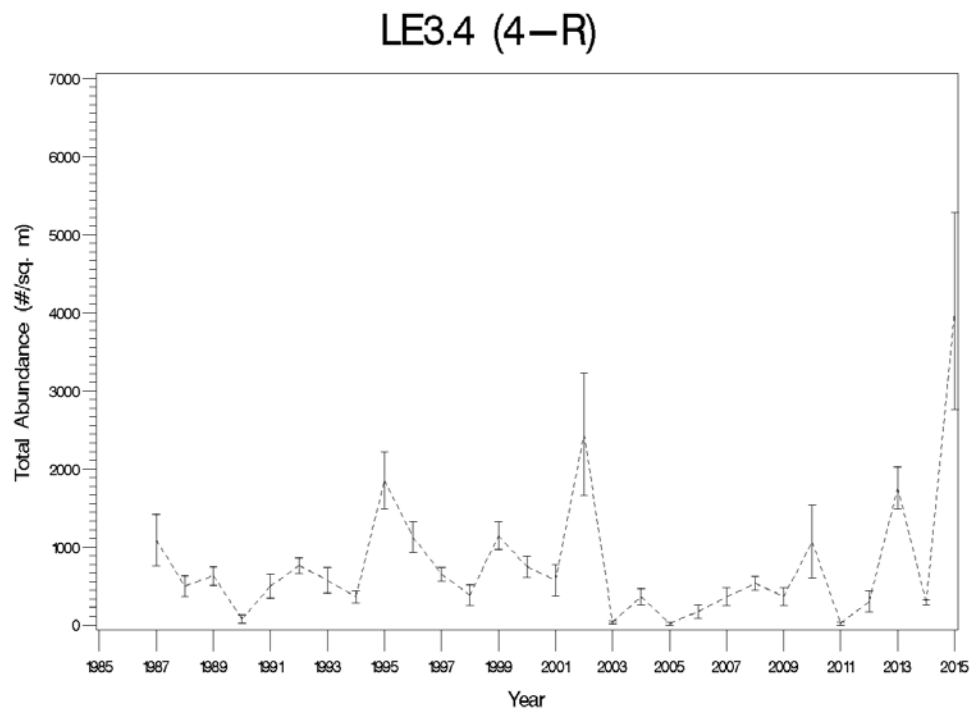


Figure 122. Plot of total benthic community abundance at station LE3.4 for 1985 through 2015.

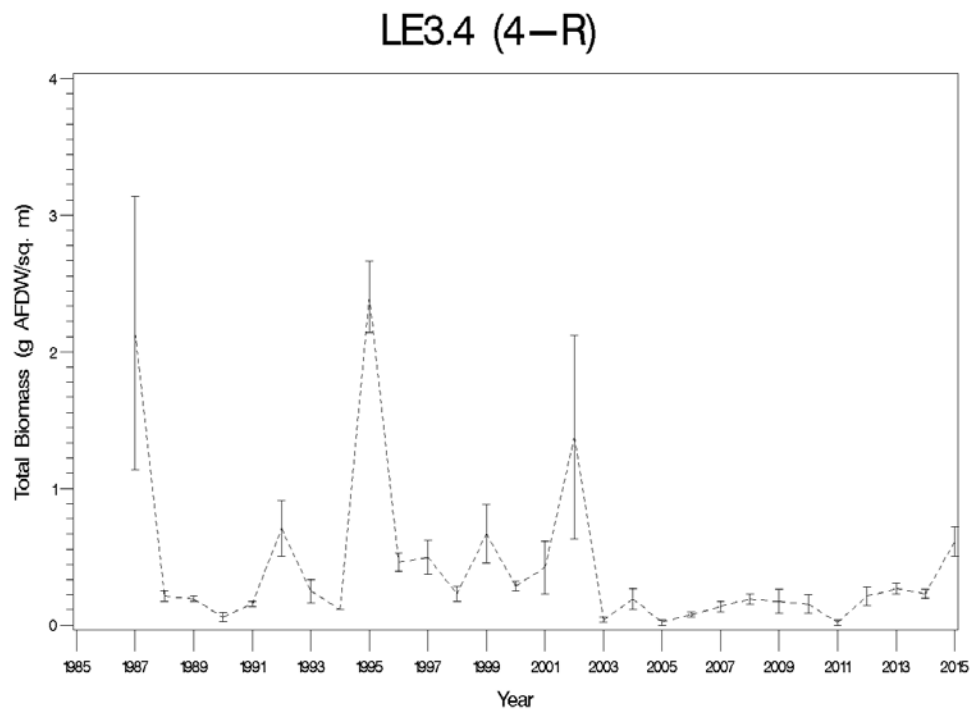


Figure 123. Plot of total benthic community biomass at station LE3.4 for 1985 through 2015.

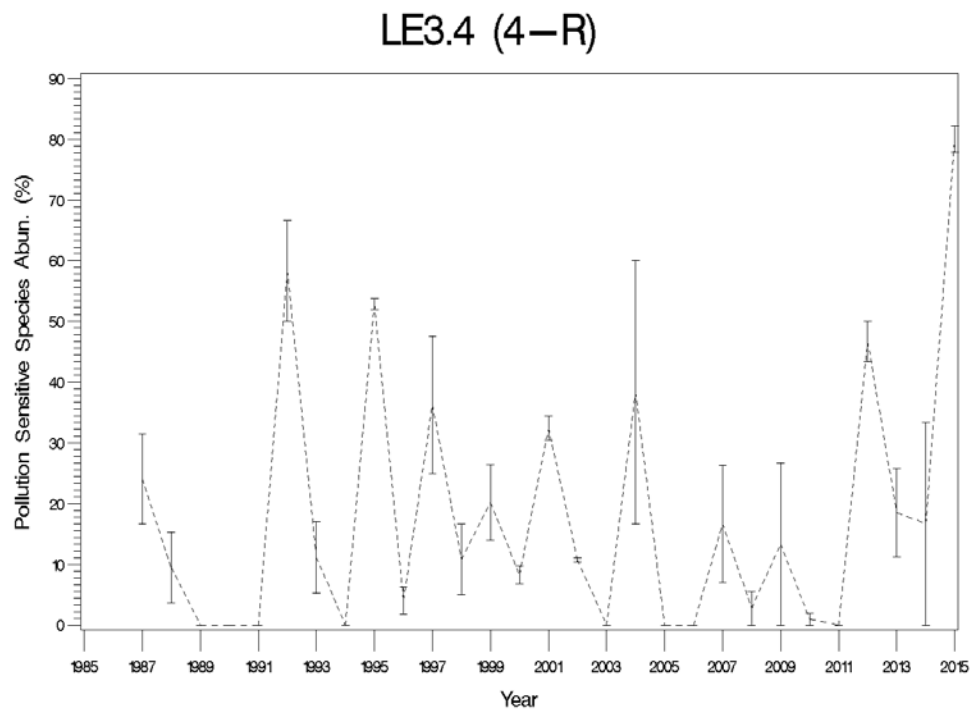


Figure 124. Plot of pollution sensitive species abundance at station LE3.4 for 1985 through 2015.

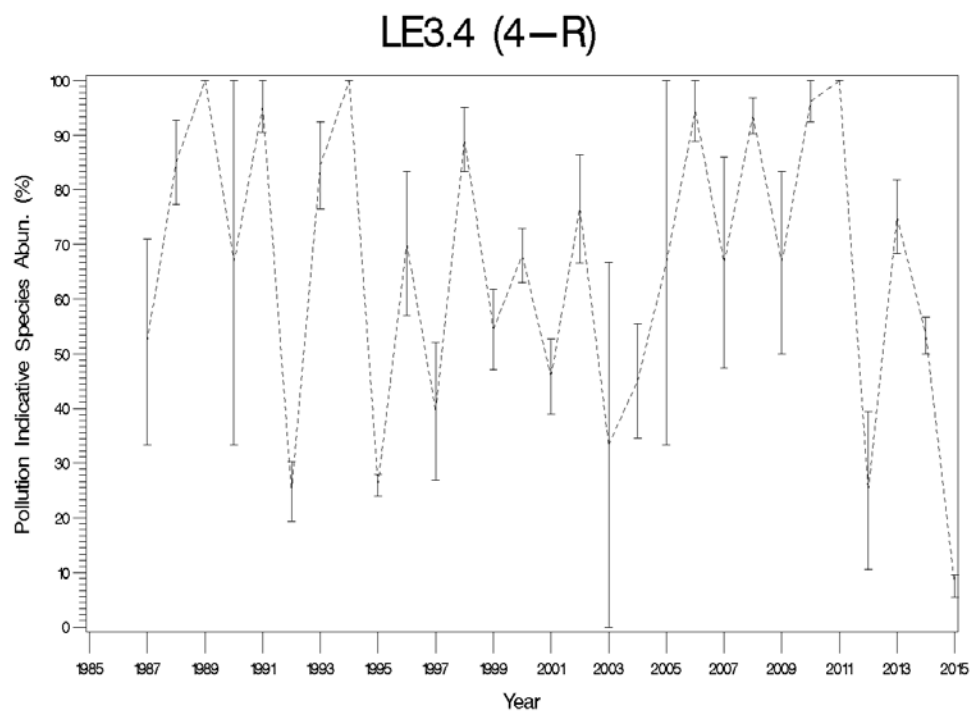


Figure 125. Plot of pollution indicative species abundance at station LE3.4 for 1985 through 2015.

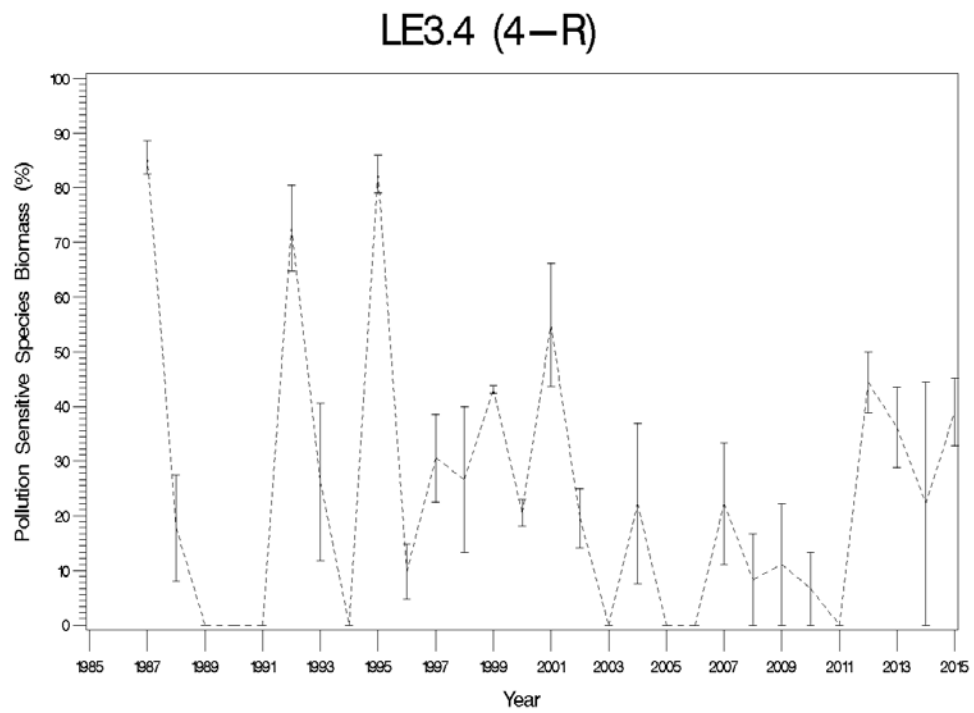


Figure 126. Plot of pollution sensitive species biomass at station LE3.4 for 1985 through 2015.

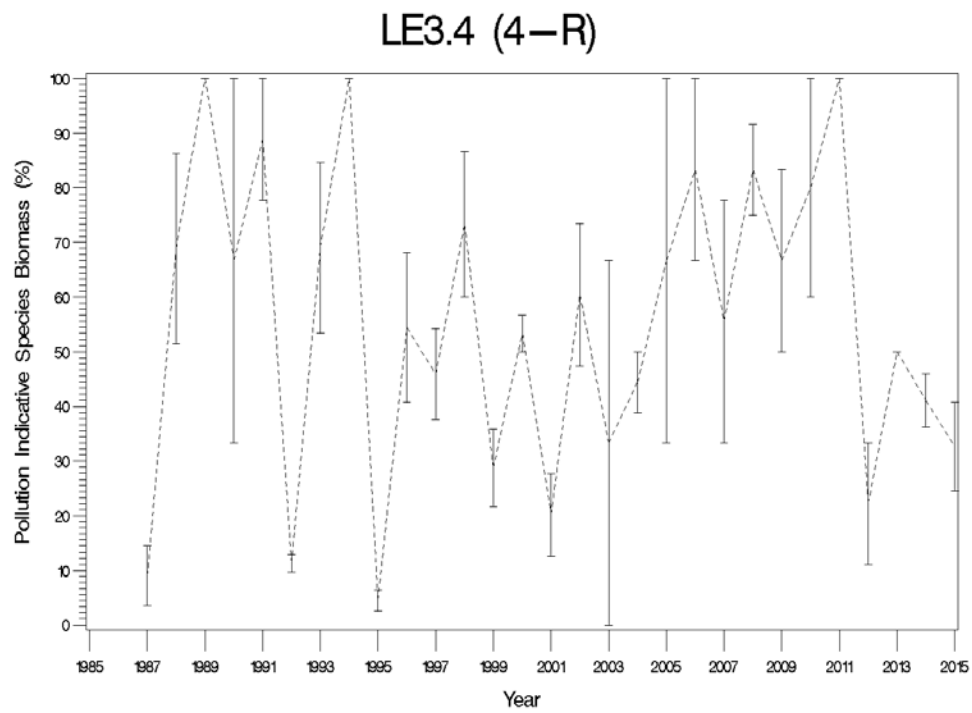


Figure 127. Plot of pollution indicative species biomass at station LE3.4 for 1985 through 2015.

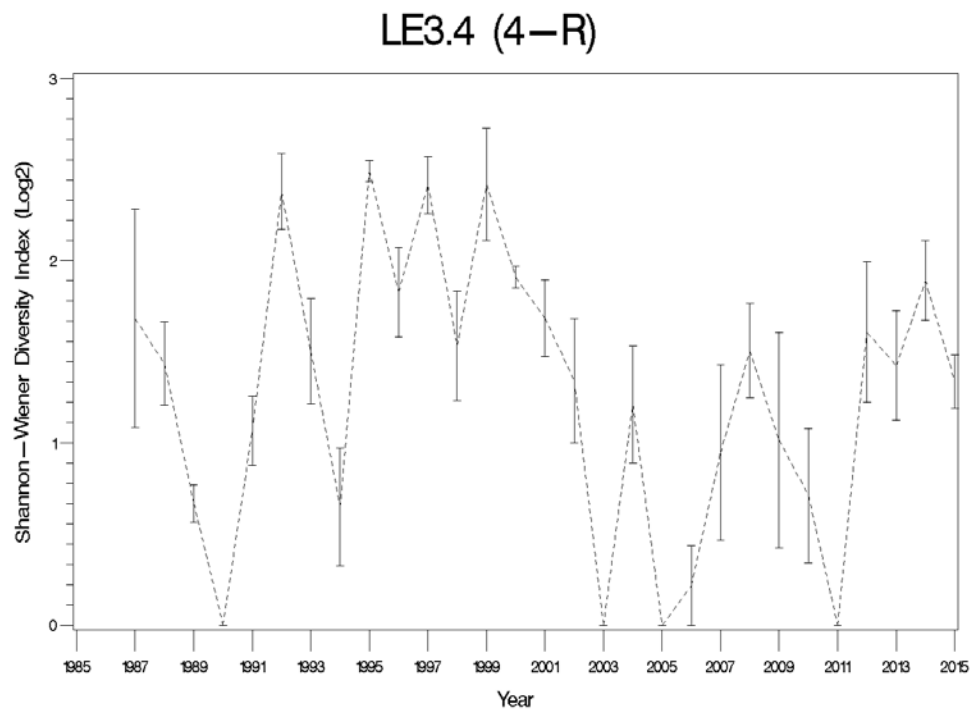


Figure 128. Plot of Shannon-Weiner diversity index at station LE3.4 for 1985 through 2015.

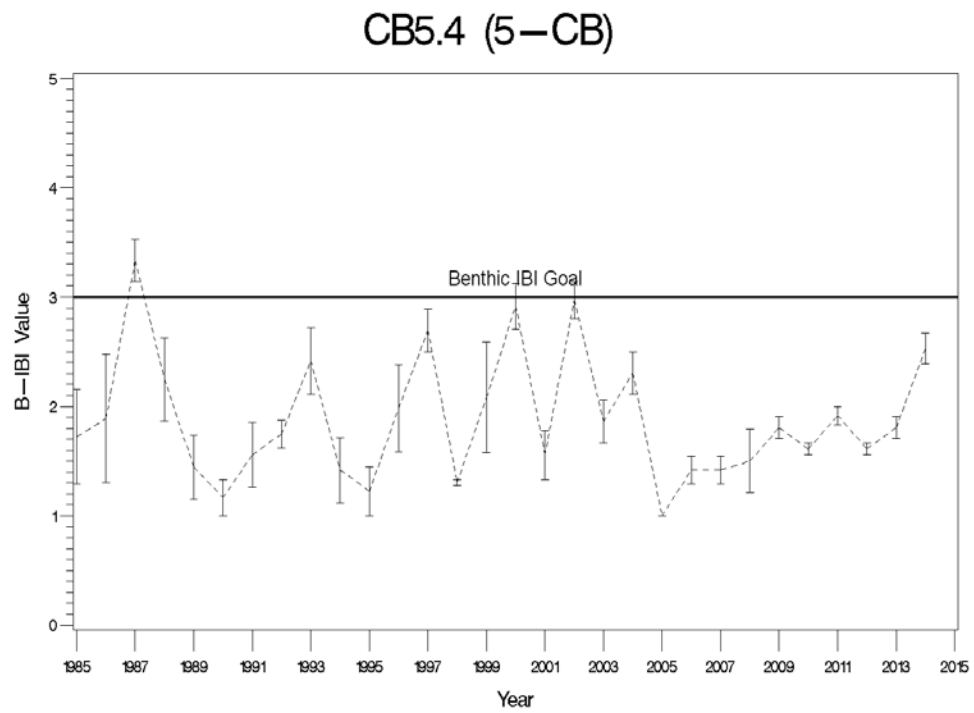


Figure 129. Plot of the benthic IBI against time at station CB5.4 for 1985 through 2015.

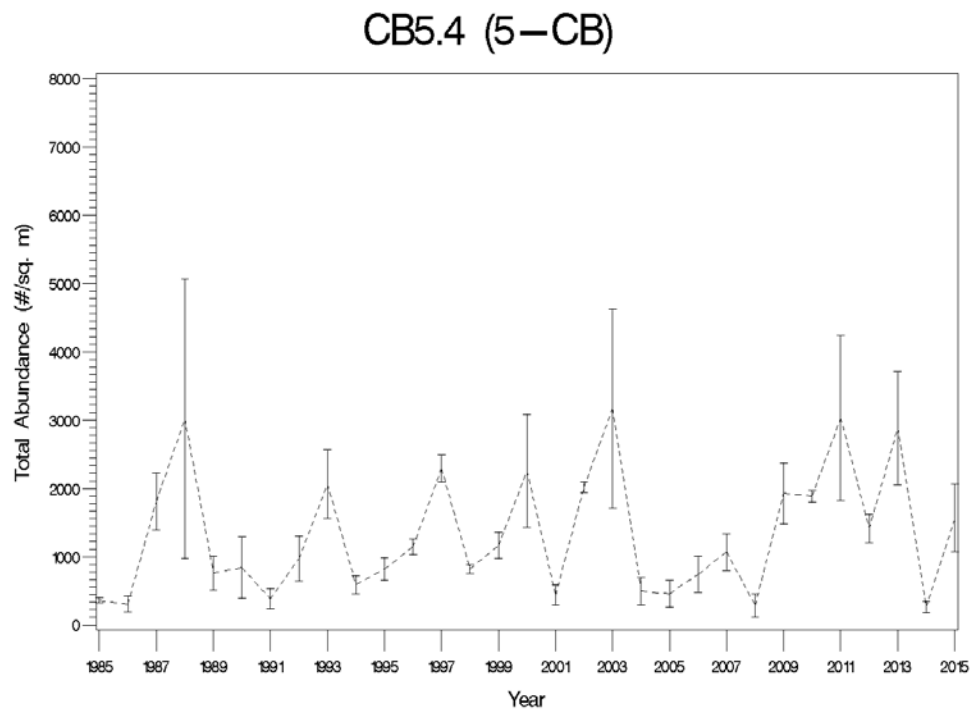


Figure 130. Plot of total benthic community abundance at station CB5.4 for 1985 through 2015.

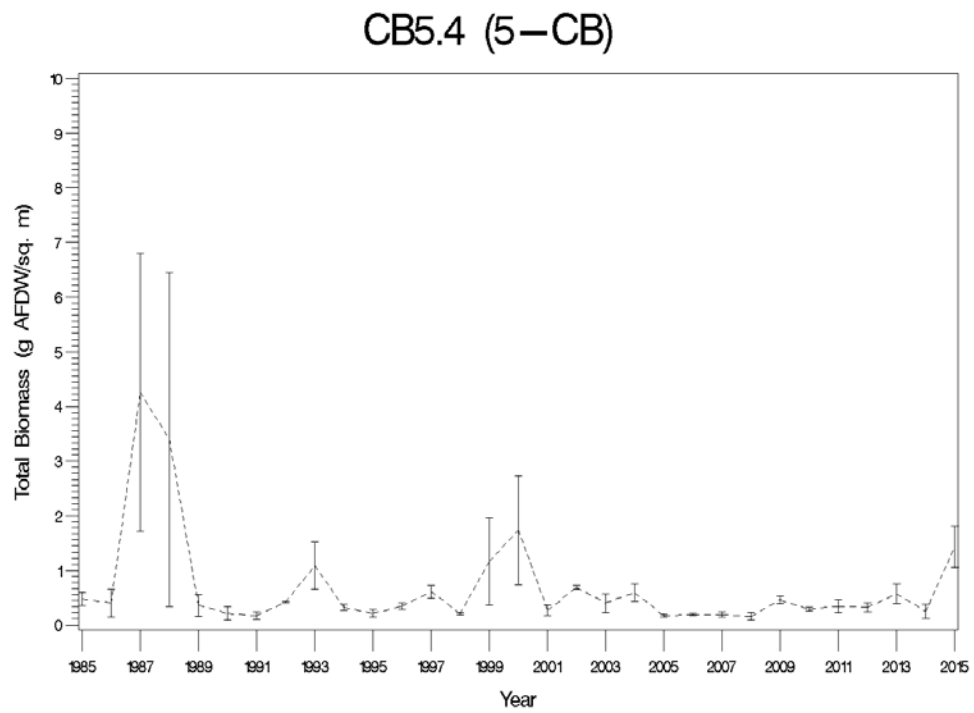


Figure 131. Plot of total benthic community biomass at station CB5.4 for 1985 through 2015.

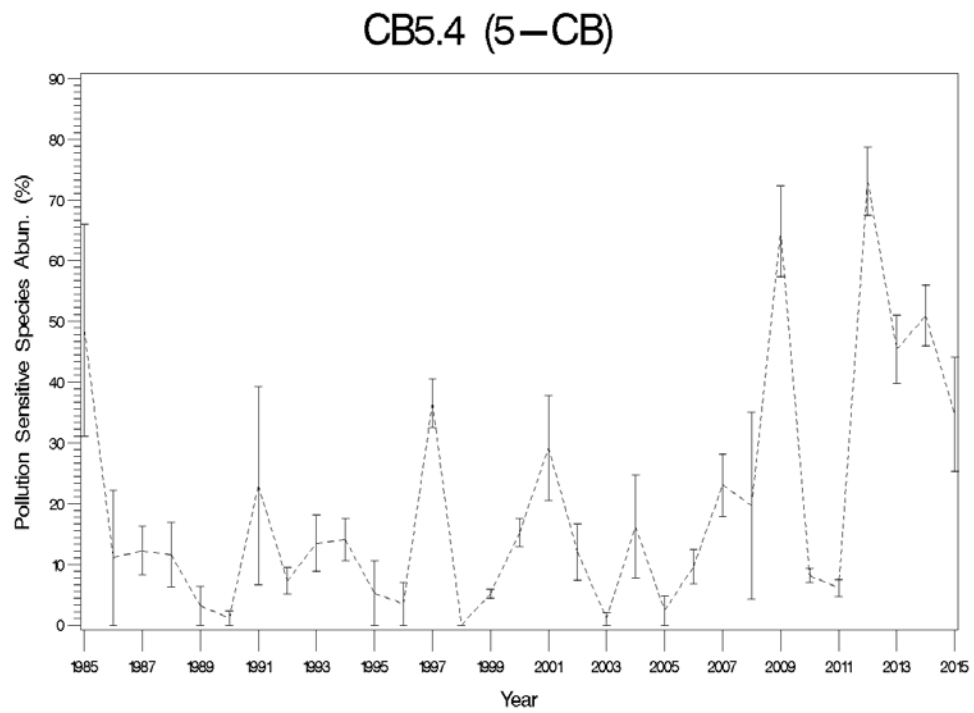


Figure 132. Plot of pollution sensitive species abundance at station CB5.4 for 1985 through 2015.

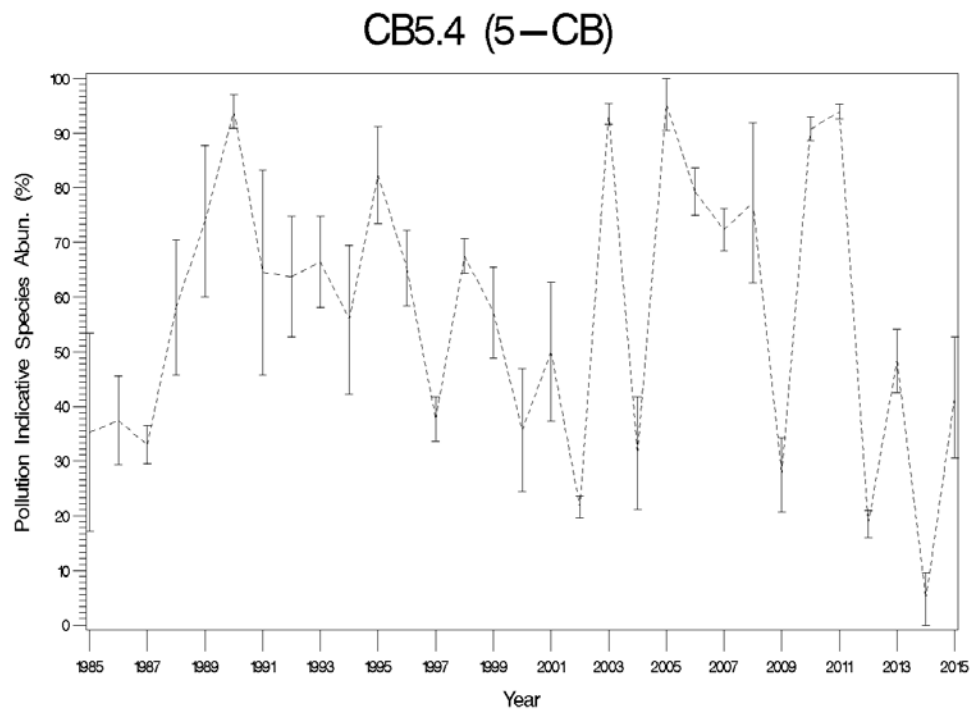


Figure 133. Plot of pollution indicative species abundance at station CB5.4 for 1985 through 2015.

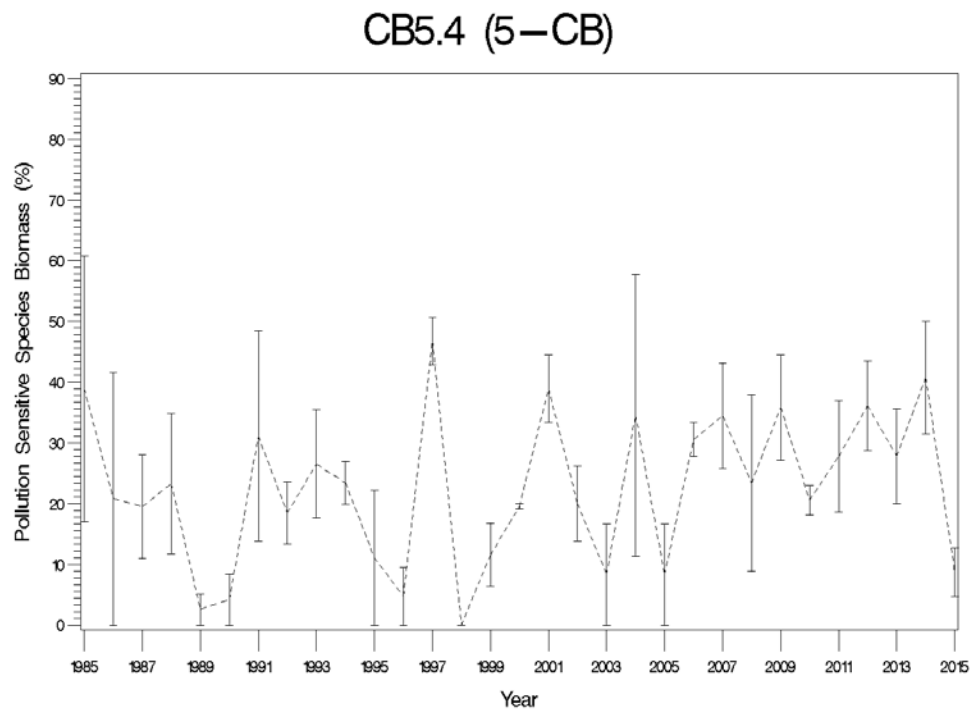


Figure 134. Plot of pollution sensitive species biomass at station CB5.4 for 1985 through 2015.

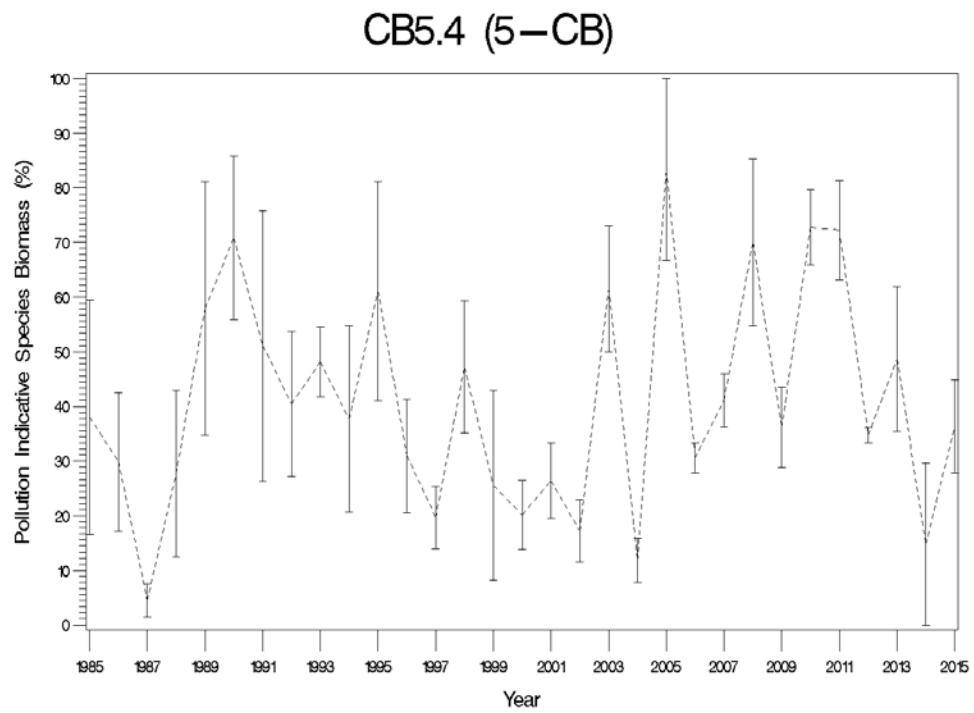


Figure 135. Plot of pollution indicative species biomass at station CB5.4 for 1985 through 2015.

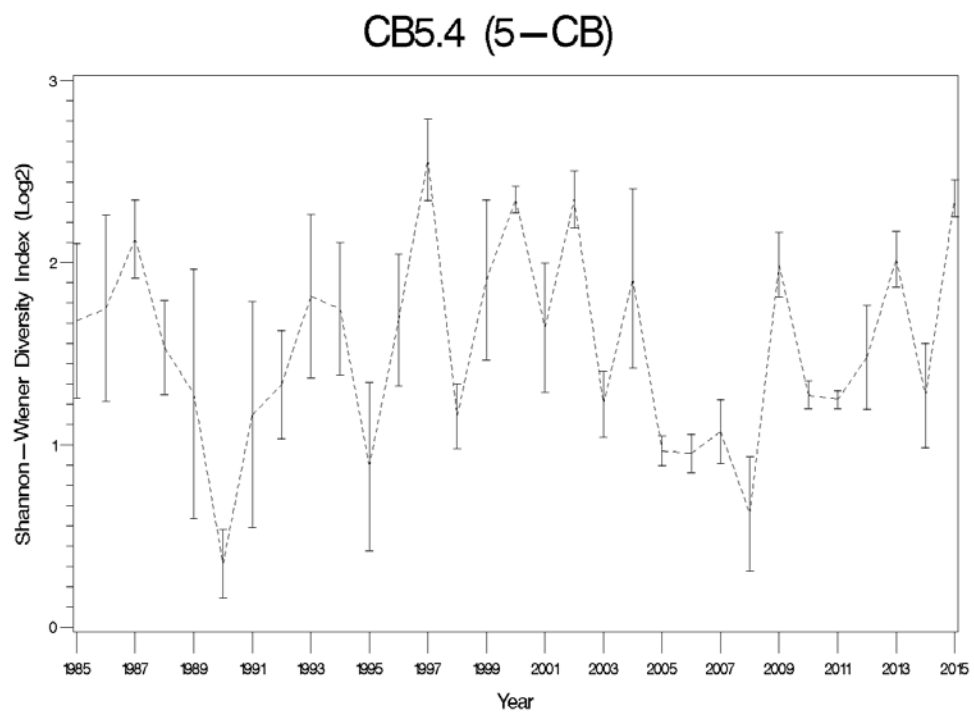


Figure 136. Plot of Shannon-Weiner diversity index at station CB5.4 for 1985 through 2015.

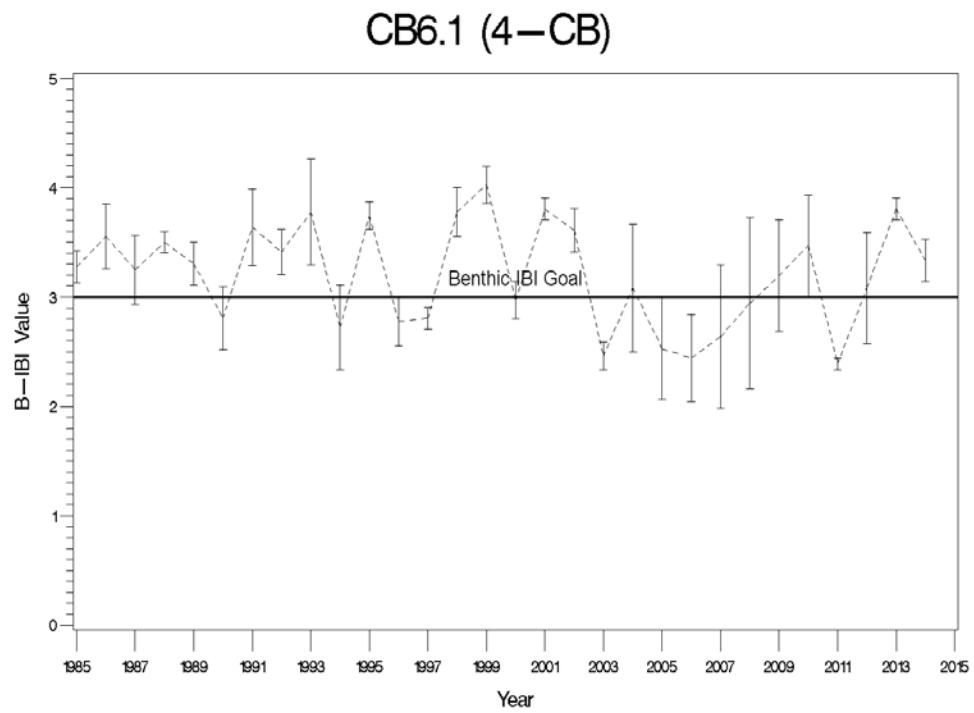


Figure 137. Plot of the benthic IBI against time at station CB6.1 for 1985 through 2015.

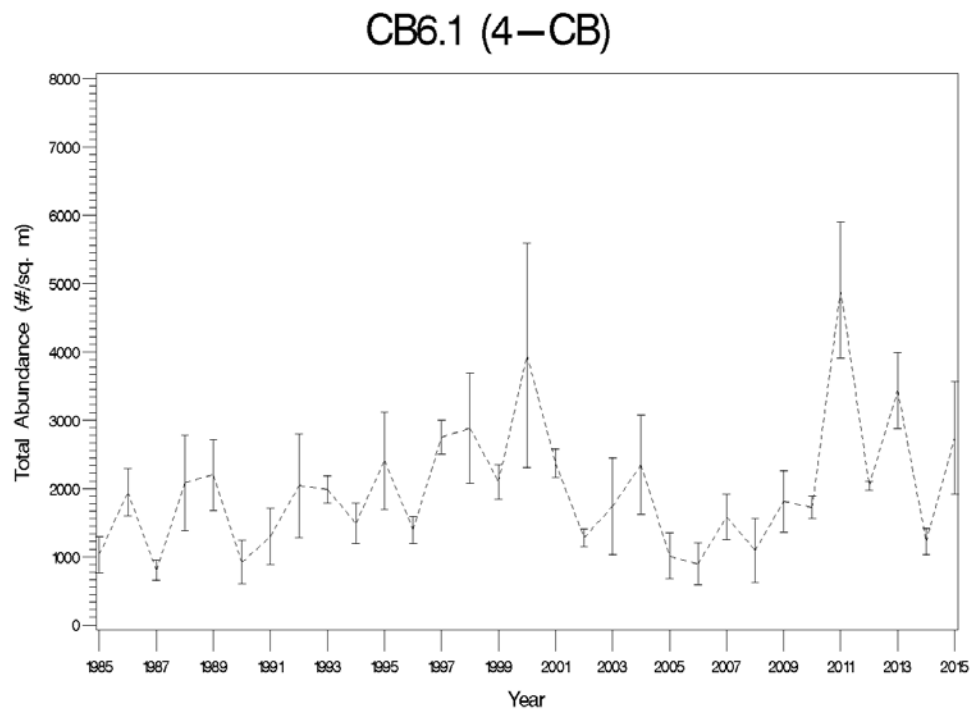


Figure 138. Plot of total benthic community abundance at station CB6.1 for 1985 through 2015.

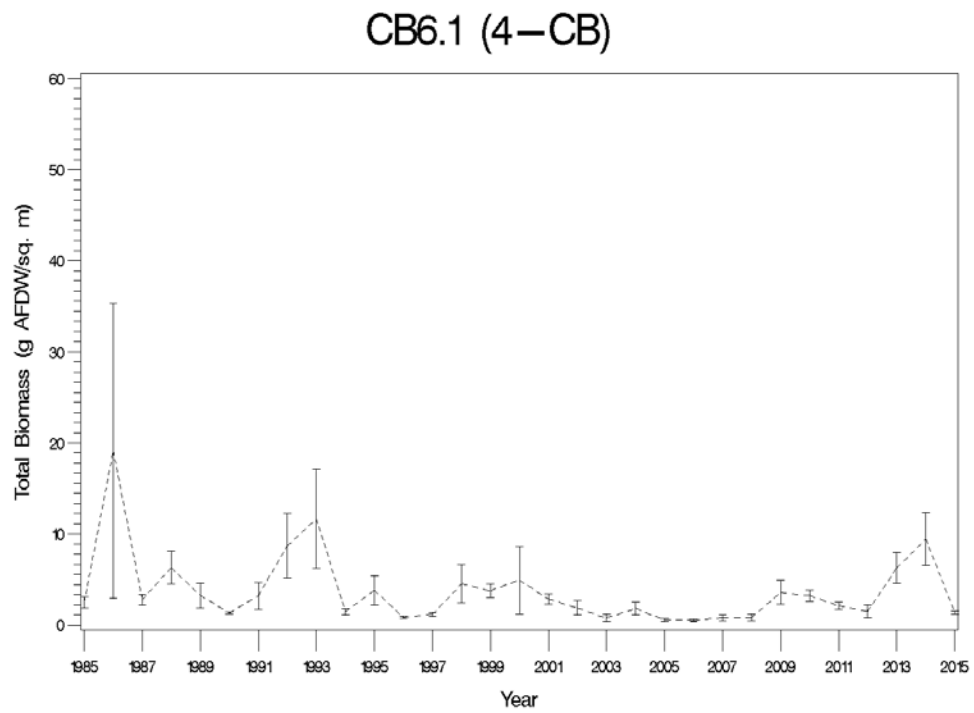


Figure 139. Plot of total benthic community biomass at station CB6.1 for 1985 through 2015.

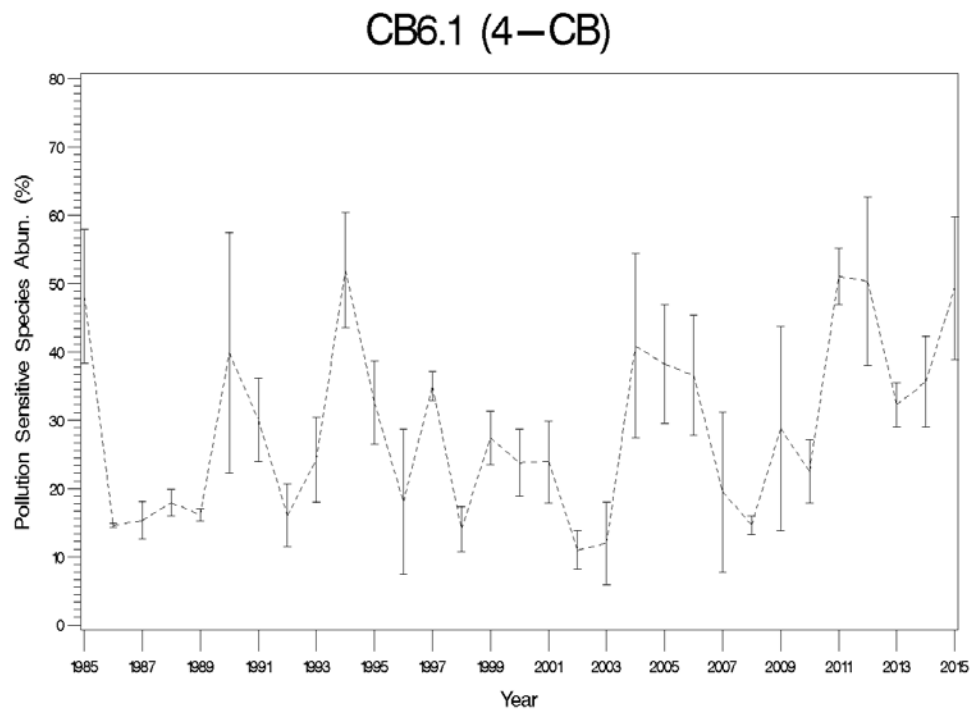


Figure 140. Plot of pollution sensitive species abundance at station CB6.1 for 1985 through 2015.

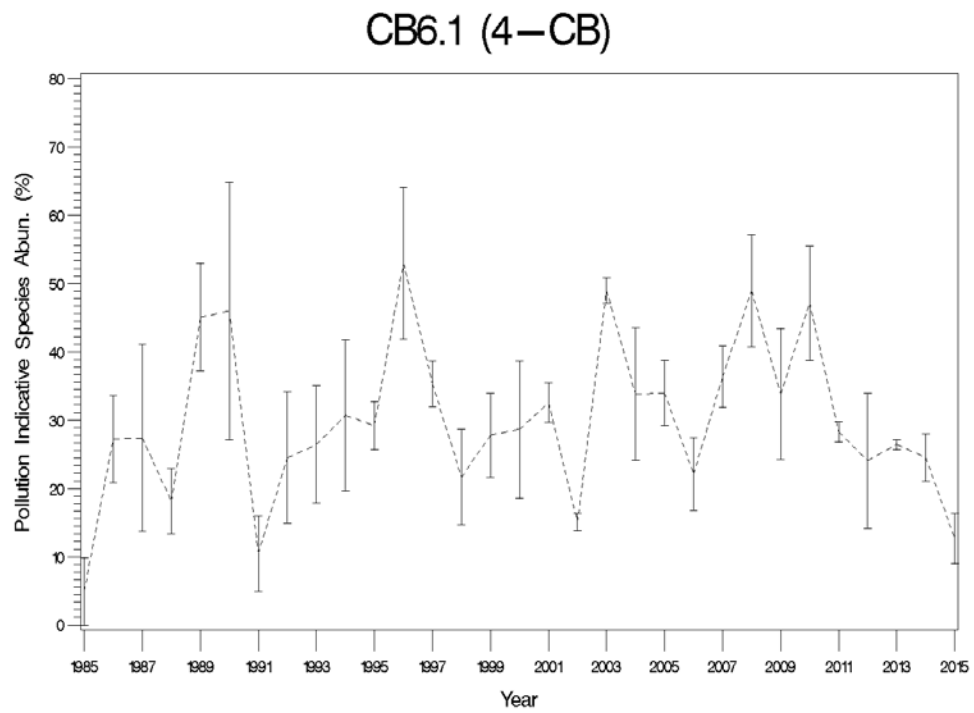


Figure 141. Plot of pollution indicative species abundance at station CB6.1 for 1985 through 2015.

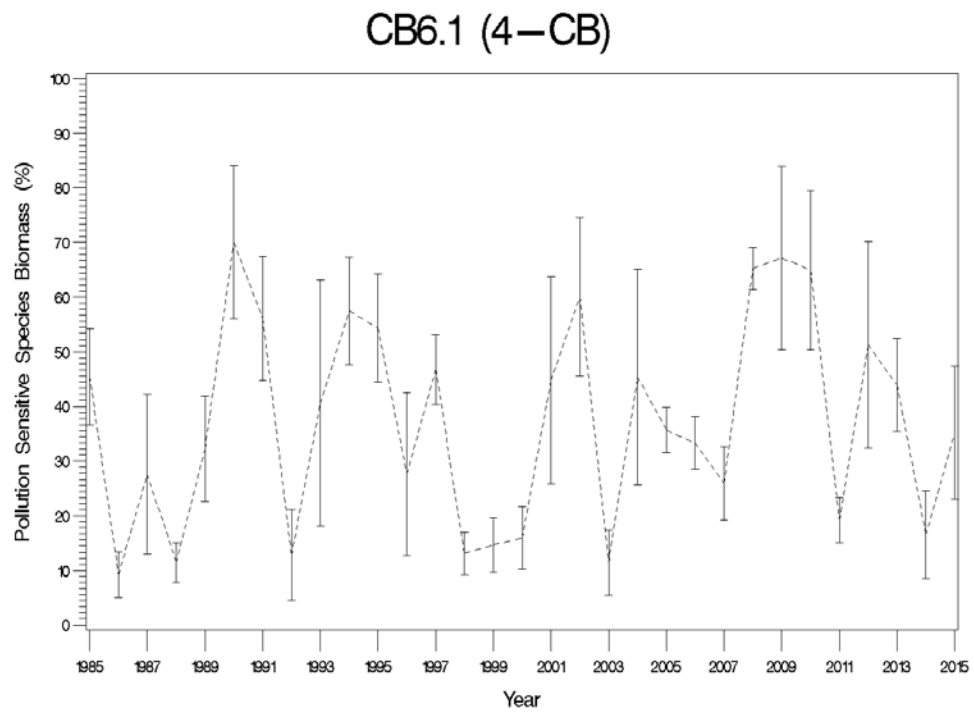


Figure 142. Plot of pollution sensitive species biomass at station CB6.1 for 1985 through 2015.

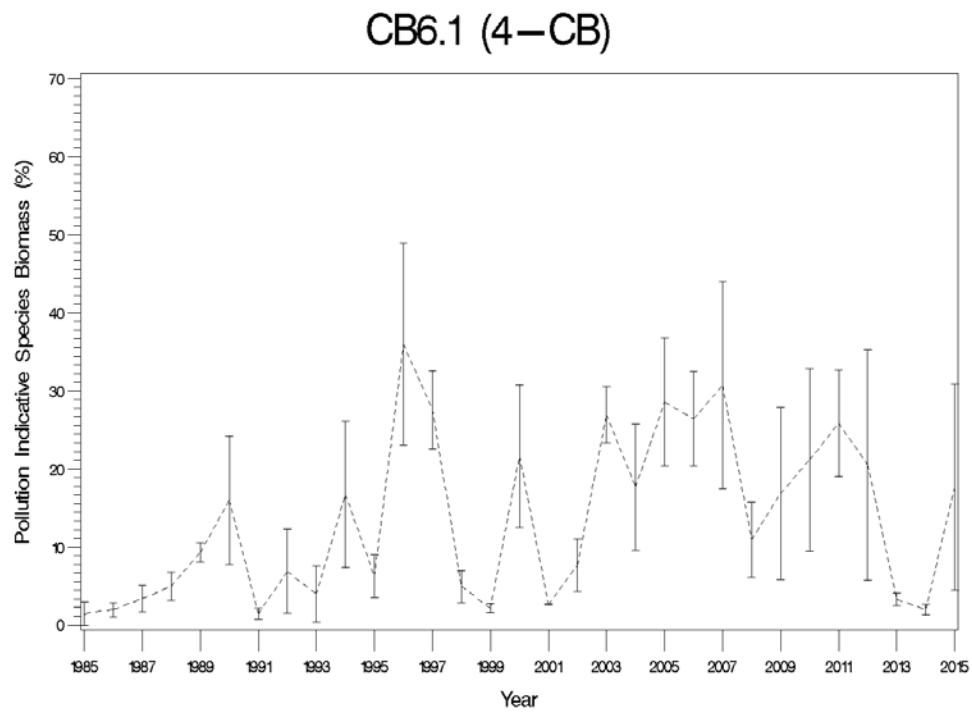


Figure 143. Plot of pollution indicative species biomass at station CB6.1 for 1985 through 2015.

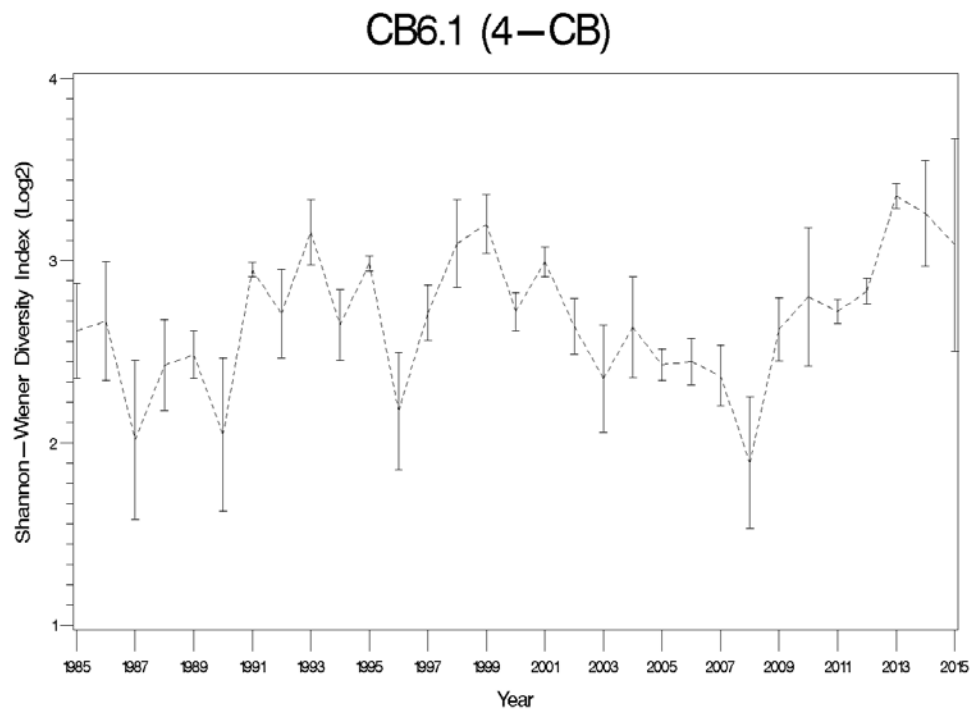


Figure 144. Plot of Shannon-Weiner diversity index at station CB6.1 for 1985 through 2015.

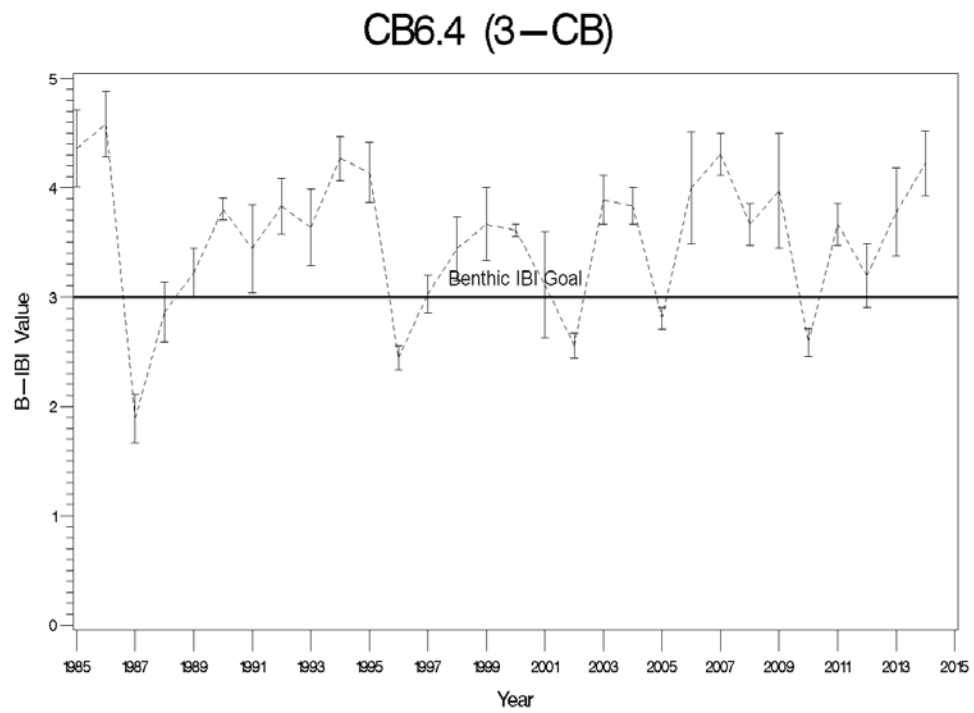


Figure 145. Plot of the benthic IBI against time at station CB6.4 for 1985 through 2015.

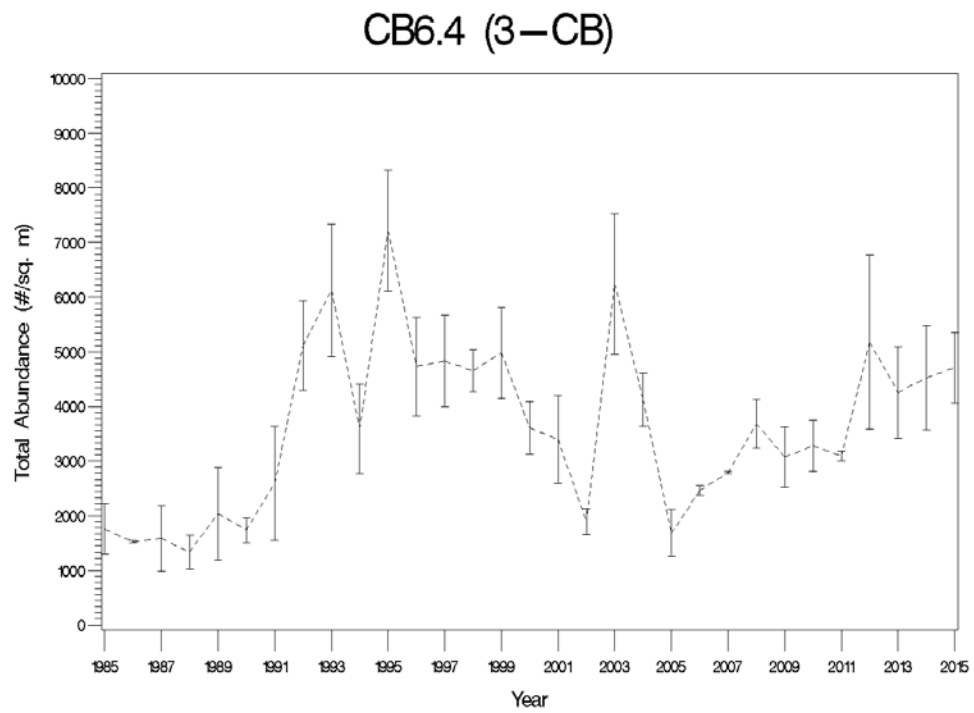


Figure 146. Plot of total benthic community abundance at station CB6.4 for 1985 through 2015.

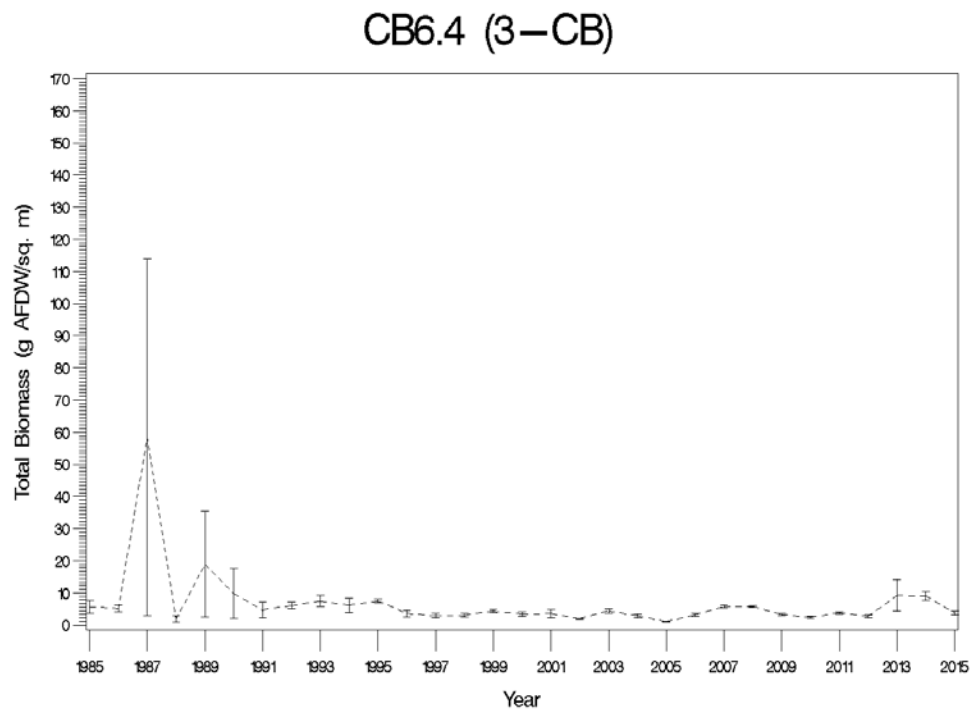


Figure 147. Plot of total benthic community biomass at station CB6.4 for 1985 through 2015.

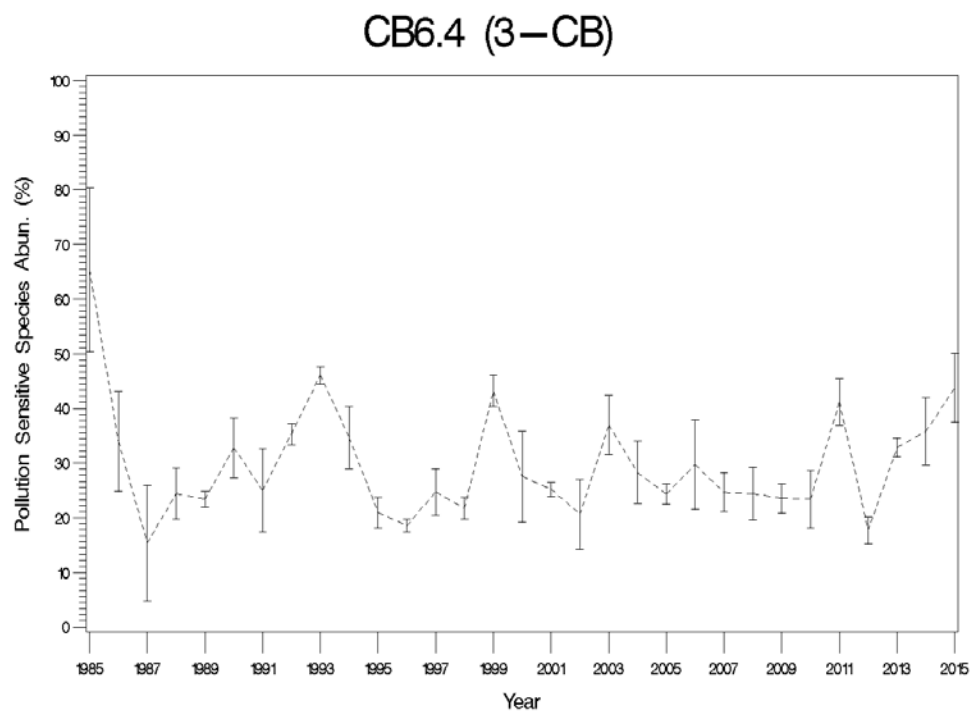


Figure 148. Plot of pollution sensitive species abundance at station CB6.4 for 1985 through 2015.

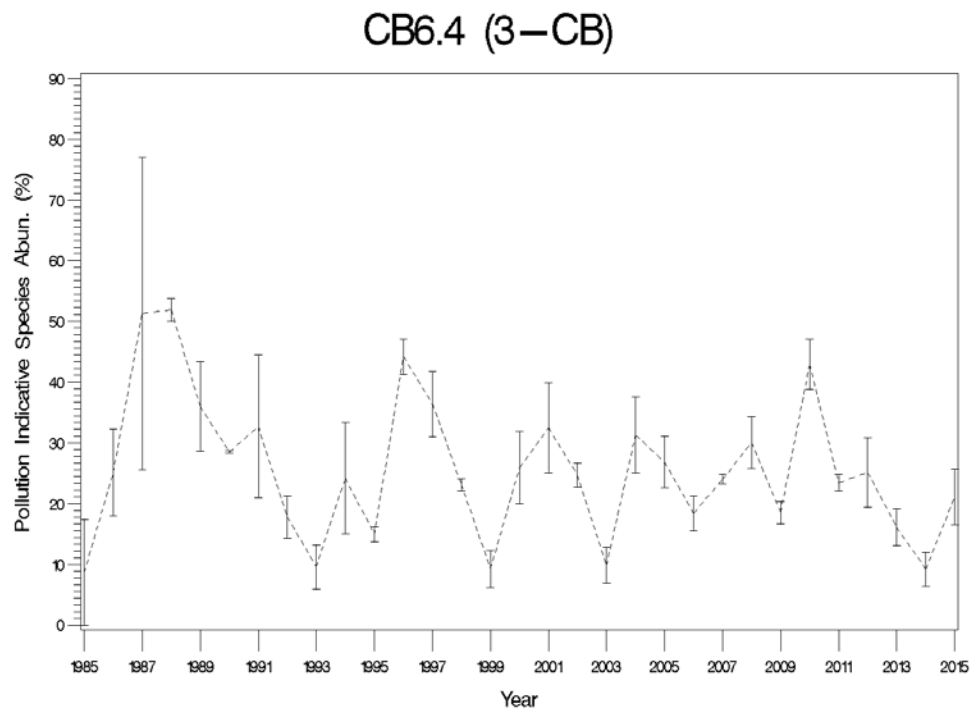


Figure 149. Plot of pollution indicative species abundance at station CB6.4 for 1985 through 2015.

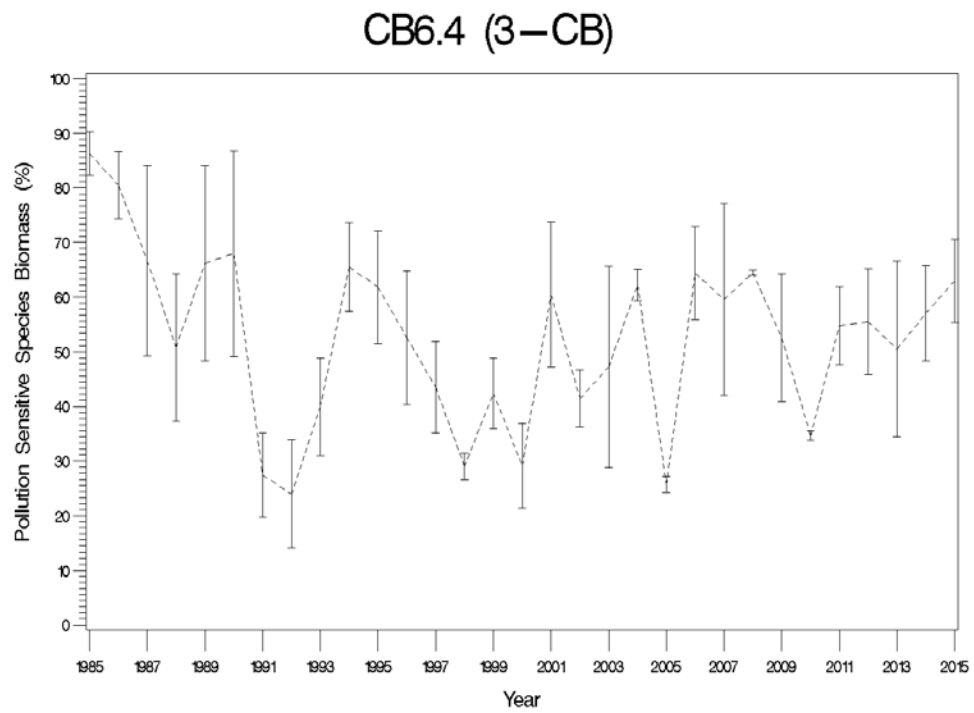


Figure 150. Plot of pollution sensitive species biomass at station CB6.4 for 1985 through 2015.

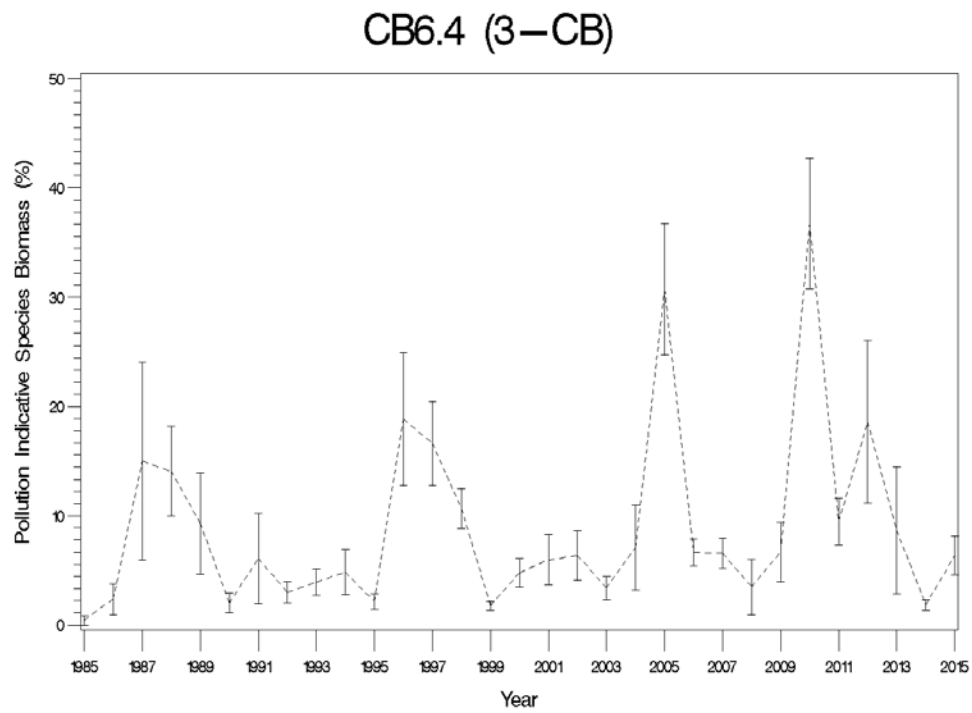


Figure 151. Plot of pollution indicative species biomass at station CB6.4 for 1985 through 2015.

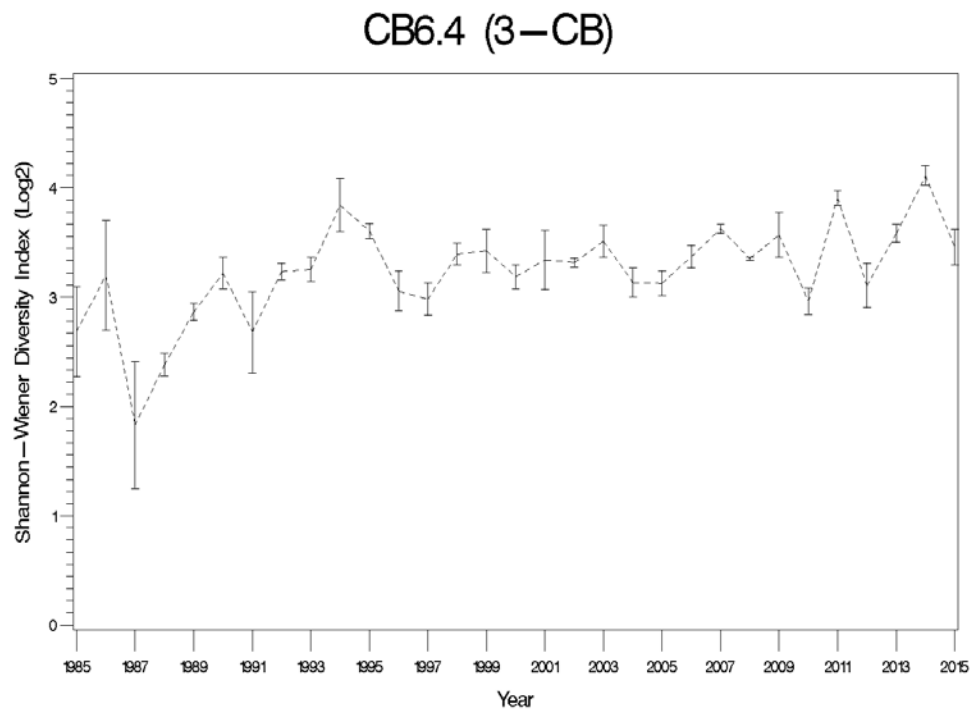


Figure 152. Plot of Shannon-Weiner diversity index at station CB6.4 for 1985 through 2015.

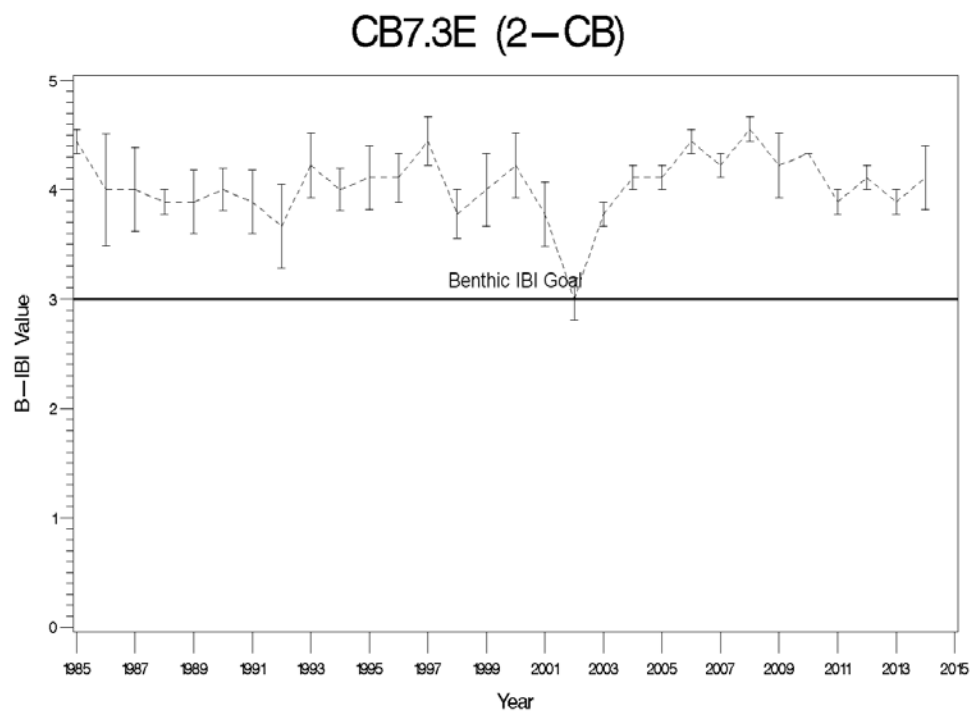


Figure 153. Plot of the benthic IBI against time at station CB7.3E for 1985 through 2015.

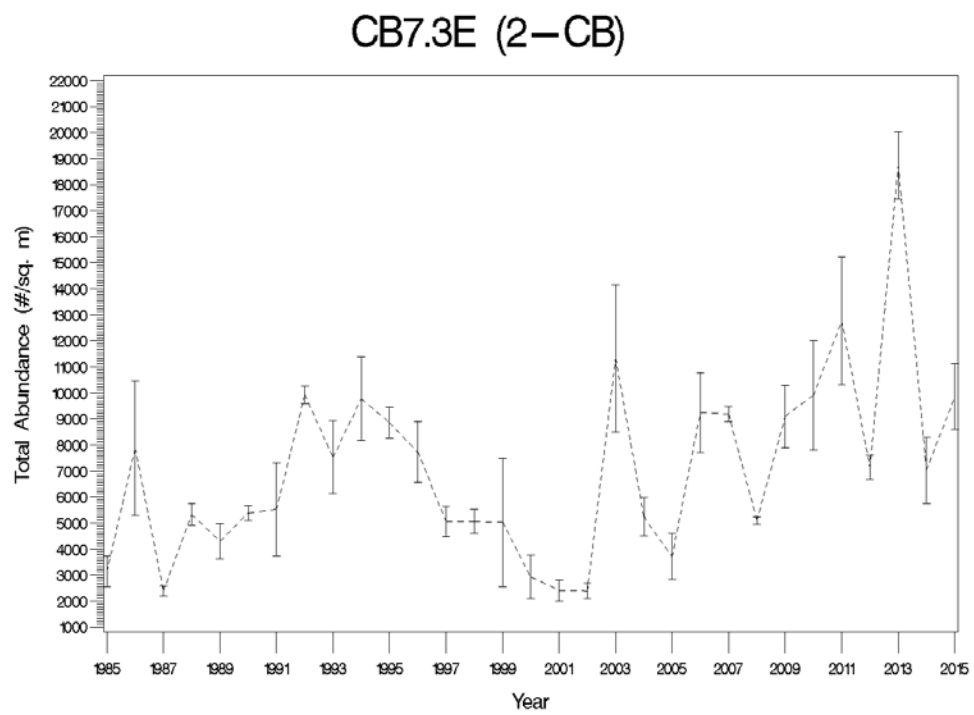


Figure 154. Plot of total benthic community abundance at station CB7.3E for 1985 through 2015.

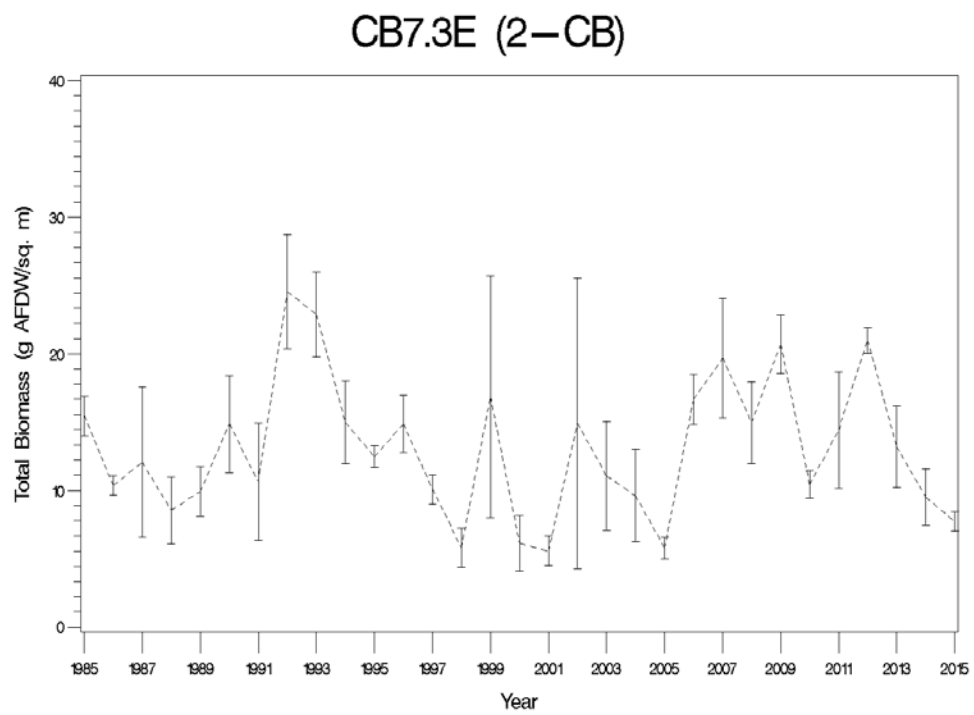


Figure 155. Plot of total benthic community biomass at station CB7.3E for 1985 through 2015.

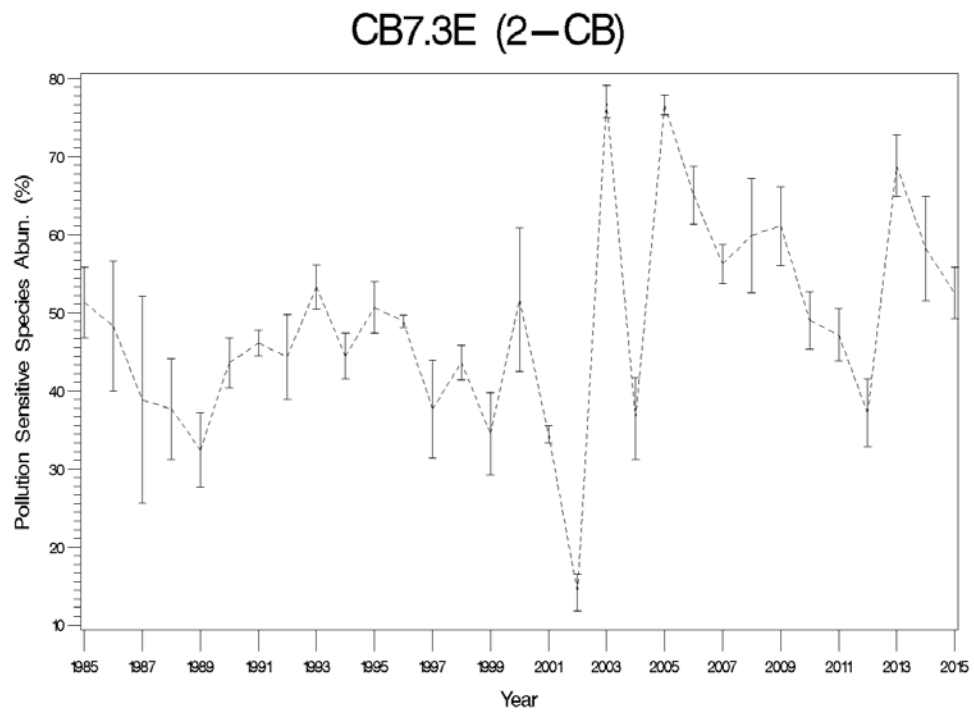


Figure 156. Plot of pollution sensitive species abundance at station CB7.3E for 1985 through 2015.

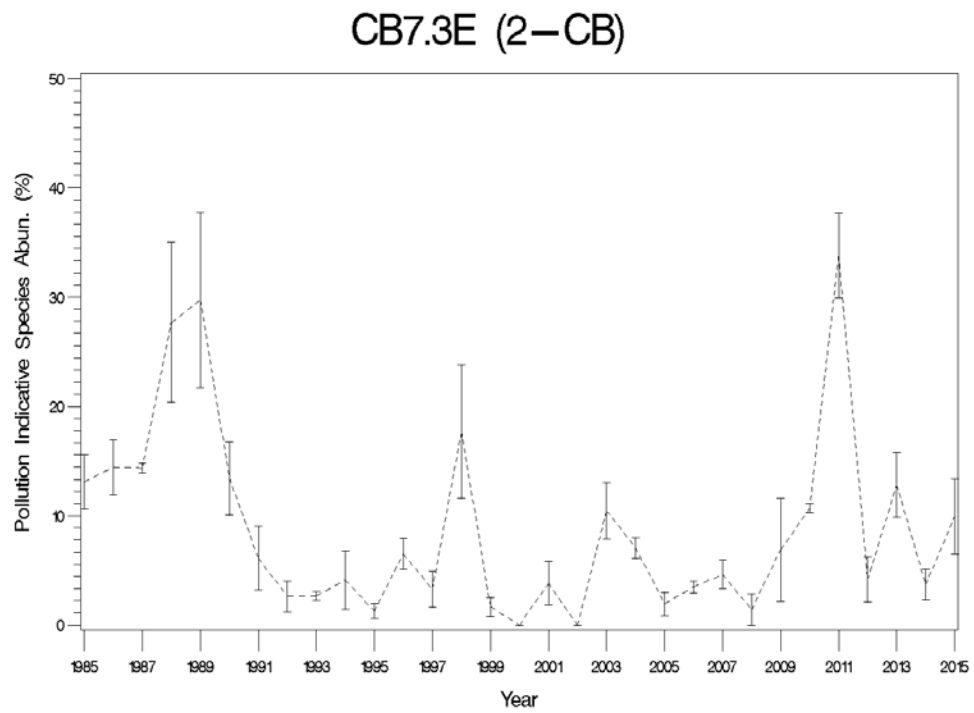


Figure 157. Plot of pollution indicative species abundance at station CB7.3E for 1985 through 2015.

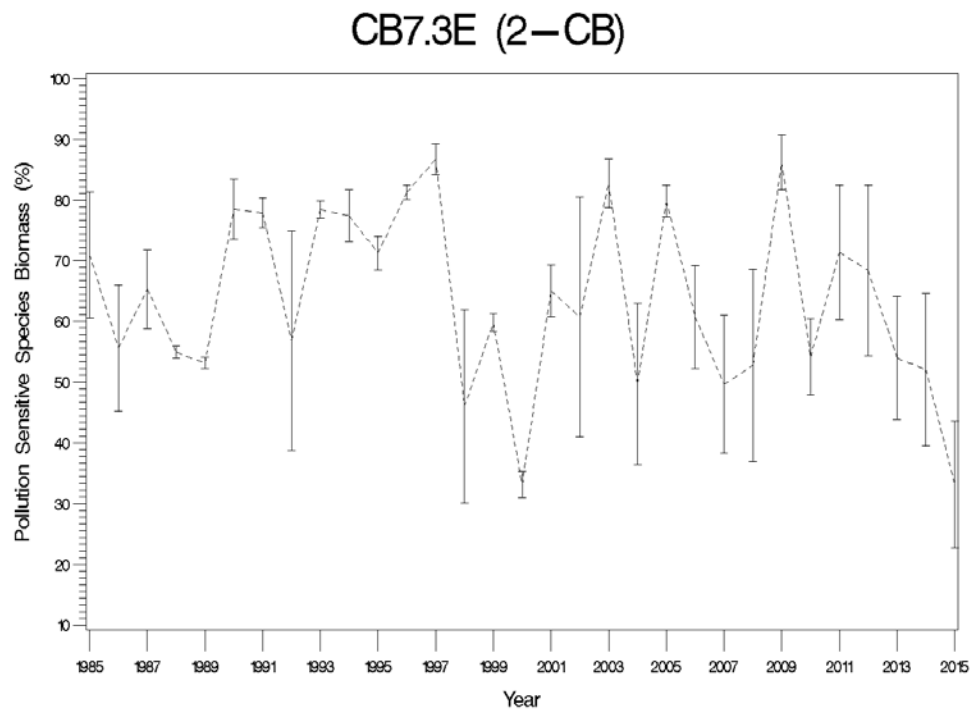


Figure 158. Plot of pollution sensitive species biomass at station CB7.3E for 1985 through 2015.

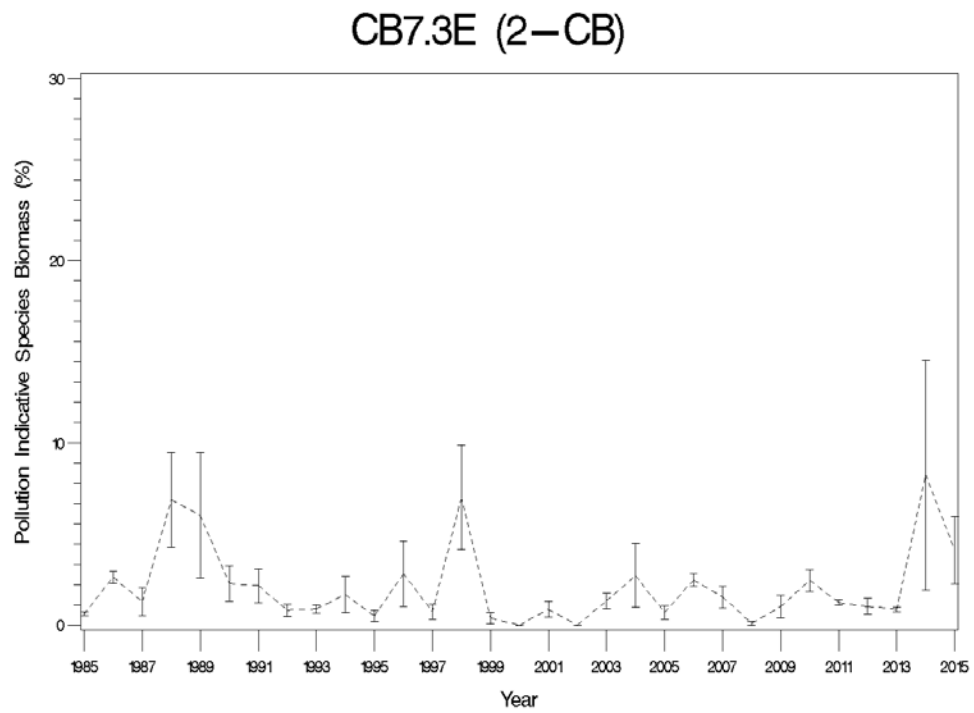


Figure 159. Plot of pollution indicative species biomass at station CB7.3E for 1985 through 2015.

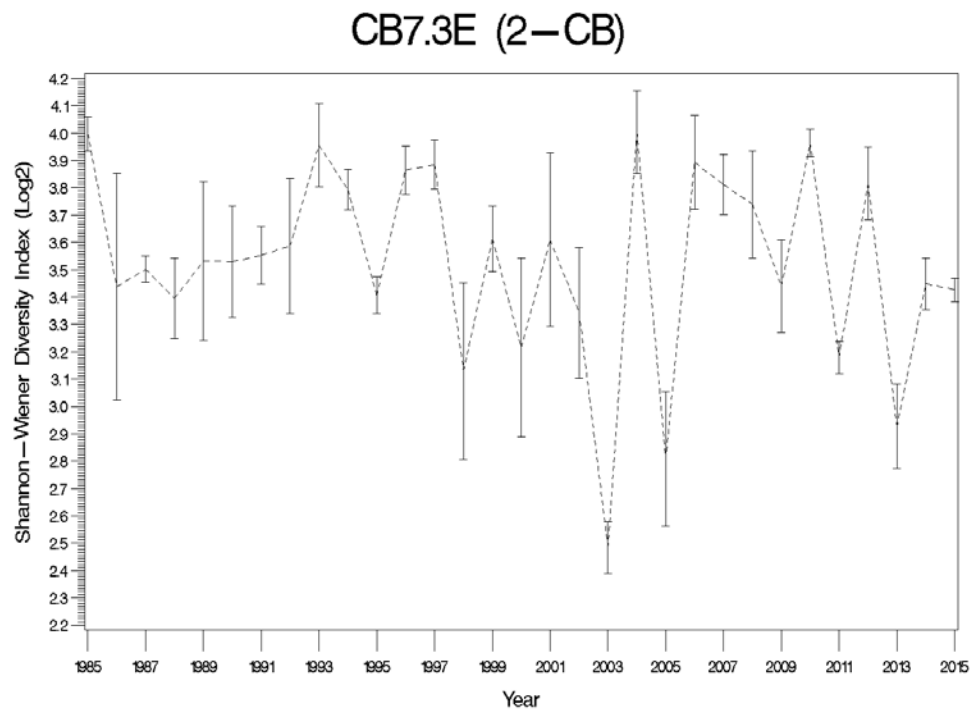


Figure 160. Plot of Shannon-Weiner diversity index at station CB7.3E for 1985 through 2015.

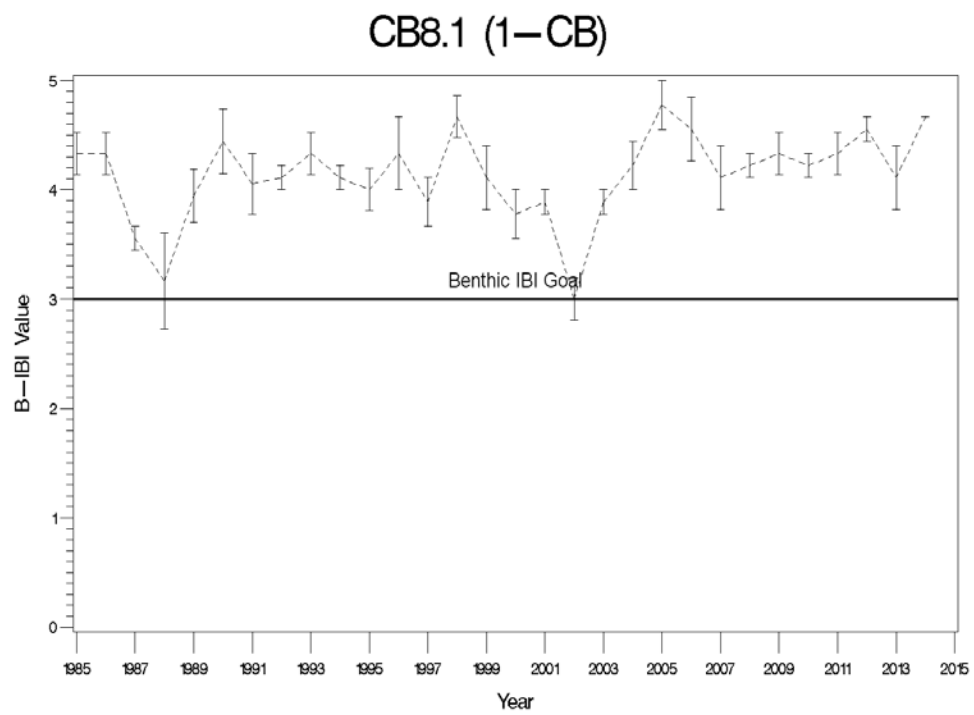


Figure 161. Plot of the benthic IBI against time at station CB8.1 for 1985 through 2015.

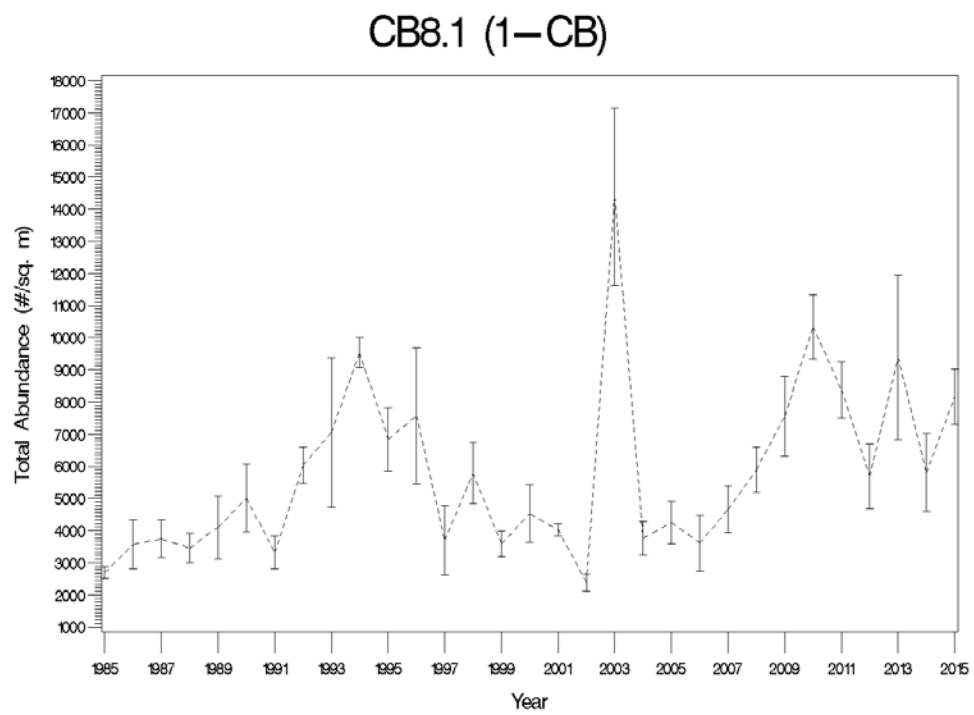


Figure 162. Plot of total benthic community abundance at station CB8.1 for 1985 through 2015.

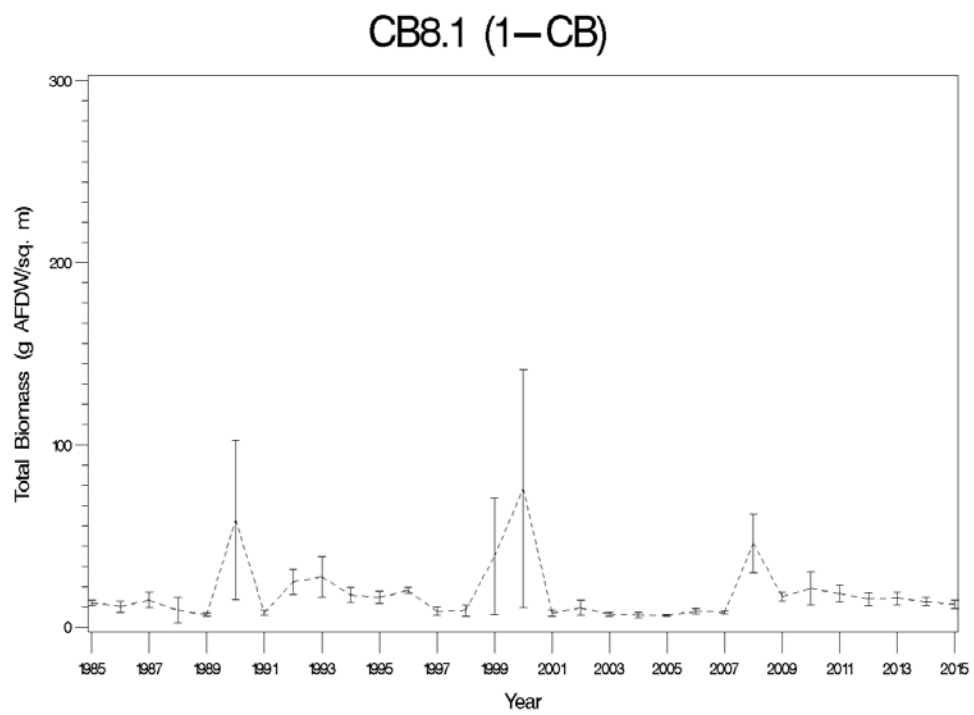


Figure 163. Plot of total benthic community biomass at station CB8.1 for 1985 through 2015.

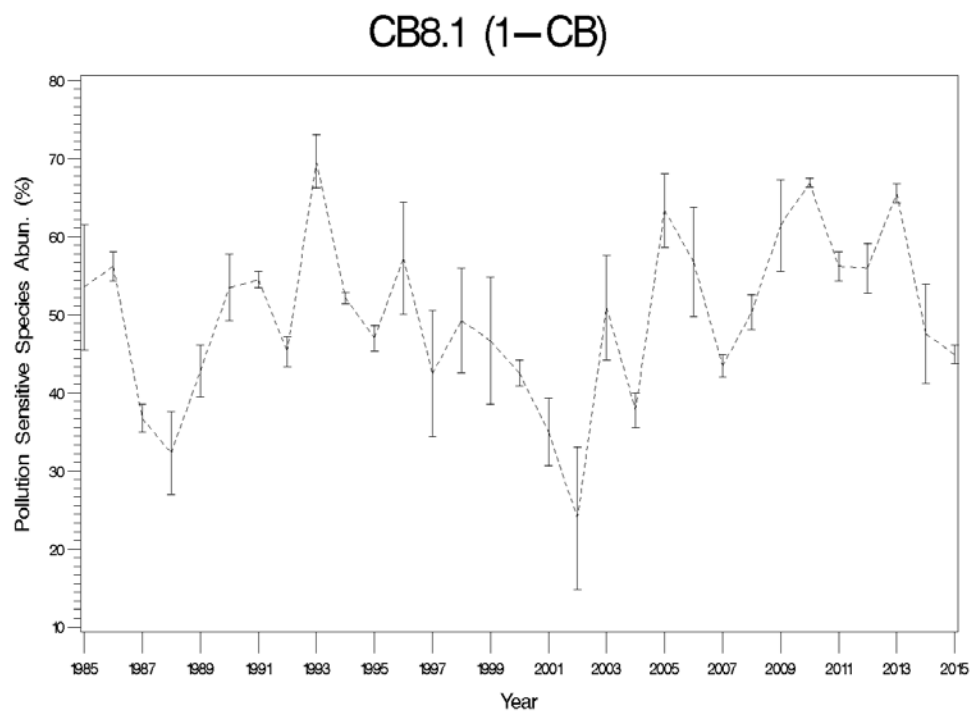


Figure 164. Plot of pollution sensitive species abundance at station CB8.1 for 1985 through 2015.

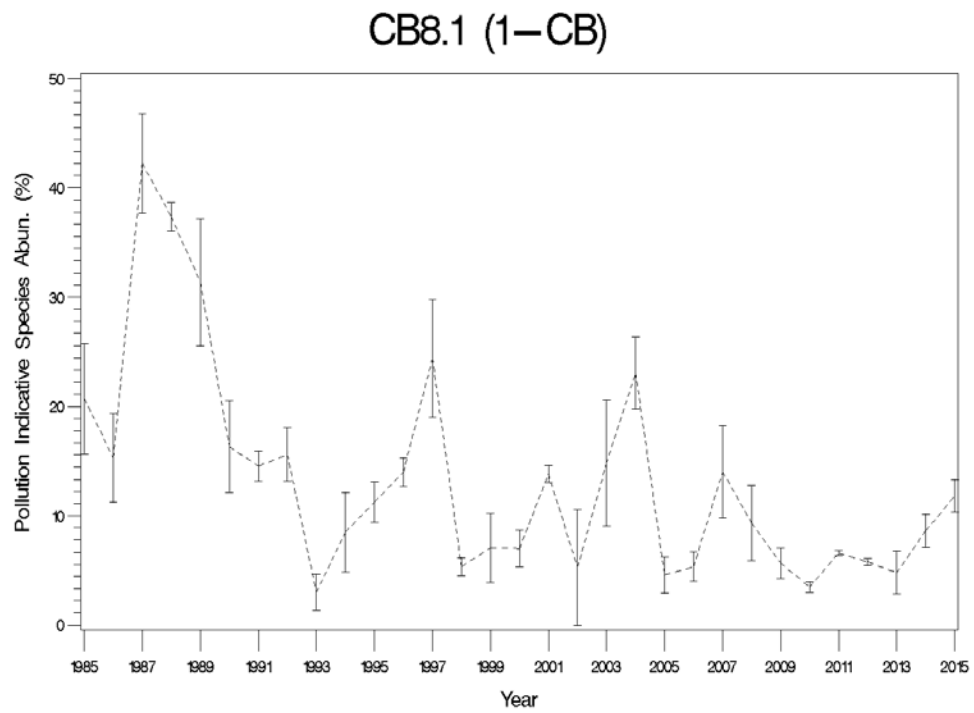


Figure 165. Plot of pollution indicative species abundance at station CB8.1 for 1985 through 2015.

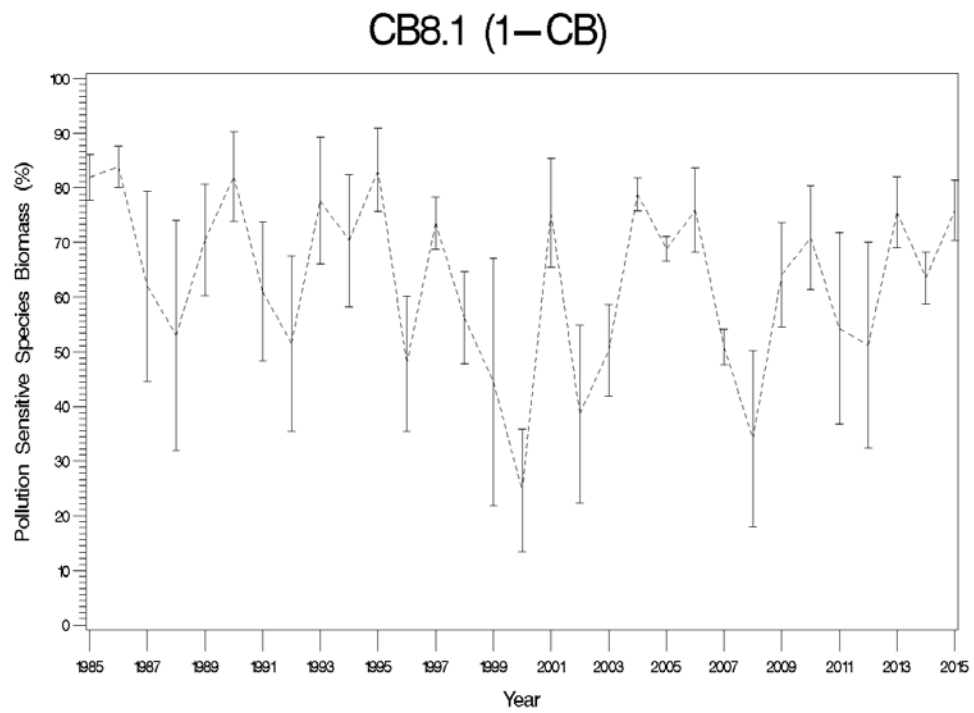


Figure 166. Plot of pollution sensitive species biomass at station CB8.1 for 1985 through 2015.

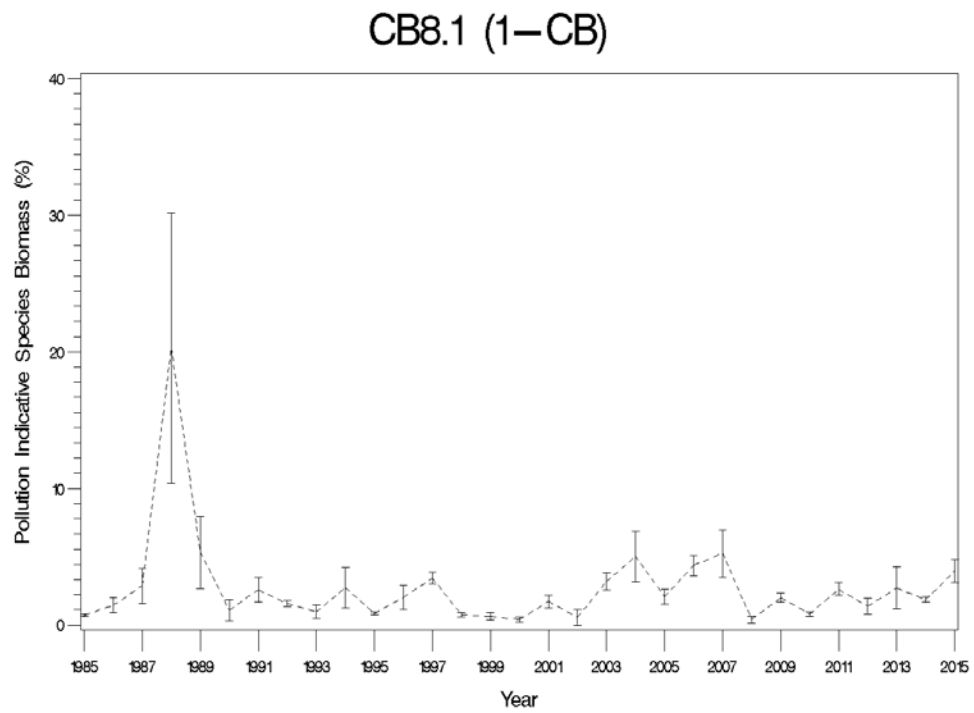


Figure 167. Plot of pollution indicative species biomass at station CB8.1 for 1985 through 2015.

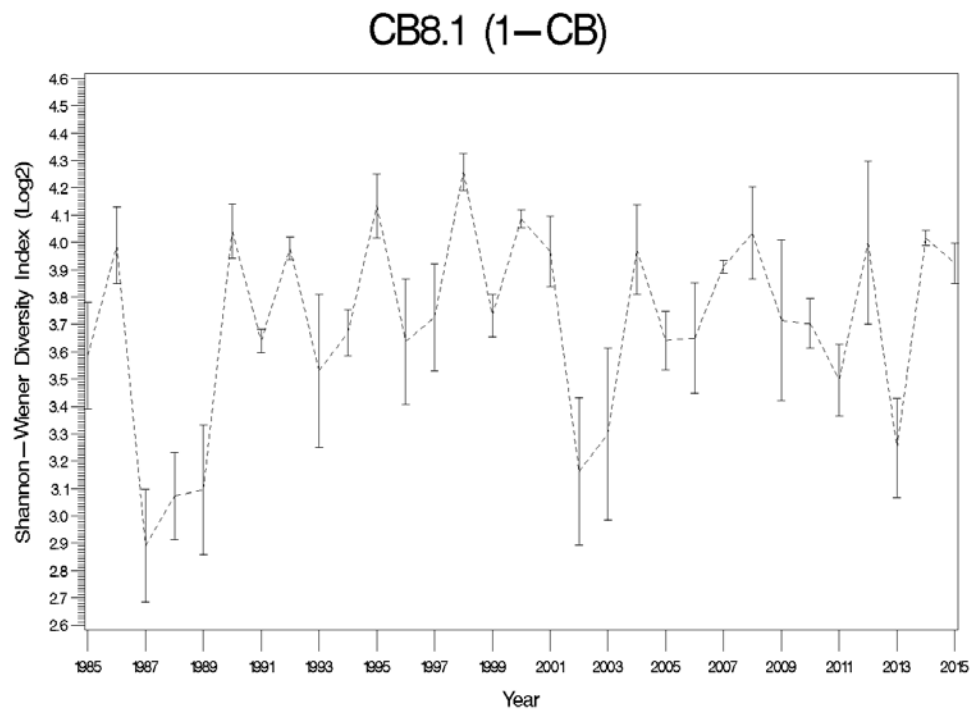


Figure 168. Plot of Shannon-Weiner diversity index at station CB8.1 for 1985 through 2015.