

Appendix D - Scatterplots of Phytoplankton Bioindicators

List of Figures

Figure 1. Plot of above pycnocline phytoplankton IBI scores against time at station TF5.5 for the period of 1985 through 2008.	1
Figure 2. Plot of above pycnocline total phytoplankton biomass against time at station TF5.5 for the period of 1985 through 2008.	2
Figure 3. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF5.5 for the period of 1985 through 2008.	3
Figure 4. Plot of above pycnocline Margalef diversity index against time at station TF5.5 for the period of 1985 through 2008.	4
Figure 5. Plot of above pycnocline diatom biomass against time at station TF5.5 for the period of 1985 through 2008.	5
Figure 6. Plot of above pycnocline dinoflagellate biomass against time at station TF5.5 for the period of 1985 through 2008.	6
Figure 7. Plot of above pycnocline cyanobacteria biomass against time at station TF5.5 for the period of 1985 through 2008.	7
Figure 8. Plot of above pycnocline chlorophyte biomass against time at station TF5.5 for the period of 1985 through 2008.	8
Figure 9. Plot of above pycnocline picoplankton biomass against time at station TF5.5 for the period of 1985 through 2008.	9
Figure 10. Plot of above pycnocline cryptophyte biomass at station TF5.5 for the period of 1985 through 2008	10
Figure 11. Plot of above pycnocline cyanophyte abundance at station TF5.5 for the period of 1985 through 2008.	11
Figure 12. Plot of above pycnocline phytoplankton IBI scores against time at station RET5.2 for the period of 1985 through 2008.	12
Figure 13. Plot of above pycnocline total phytoplankton biomass against time at station RET5.2 for the period of 1985 through 2008.	13
Figure 14. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET5.2 for the period of 1985 through 2008.	14
Figure 15. Plot of above pycnocline Margalef diversity index against time at station RET5.2 for the period of 1985 through 2008.	15
Figure 16. Plot of above pycnocline diatom biomass against time at station RET5.2 for the period of 1985 through 2008.	16
Figure 17. Plot of above pycnocline dinoflagellate biomass against time at station RET5.2 for the period of 1985 through 2008.	17

Figure 18. Plot of above pycnocline cyanobacteria biomass against time at station RET5.2 for the period of 1985 through 2008.	18
Figure 19. Plot of above pycnocline chlorophyte biomass against time at station RET5.2 for the period of 1985 through 2008.	19
Figure 20. Plot of above pycnocline picoplankton biomass against time at station RET5.2 for the period of 1985 through 2008.	20
Figure 21. Plot of above pycnocline cryptophyte biomass at station RET5.2 for the period of 1985 through 2008.	21
Figure 22. Plot of above pycnocline cyanophyte abundance at station RET5.2 for the period of 1985 through 2008.	22
Figure 23. Plot of above pycnocline phytoplankton IBI scores against time at station LE5.5 for the period of 1985 through 2008.	23
Figure 24. Plot of above pycnocline total phytoplankton biomass against time at station LE5.5 for the period of 1985 through 2008.	24
Figure 25. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station LE5.5 for the period of 1985 through 2008.	25
Figure 26. Plot of above pycnocline Margalef diversity index against time at station LE5.5 for the period of 1985 through 2008.	26
Figure 27. Plot of above pycnocline diatom biomass against time at station LE5.5 for the period of 1985 through 2008.	27
Figure 28. Plot of above pycnocline dinoflagellate biomass against time at station LE5.5 for the period of 1985 through 2008.	28
Figure 29. Plot of above pycnocline cyanobacteria biomass against time at station LE5.5 for the period of 1985 through 2008.	29
Figure 30. Plot of above pycnocline chlorophyte biomass against time at station LE5.5 for the period of 1985 through 2008.	30
Figure 31. Plot of above pycnocline picoplankton biomass against time at station LE5.5 for the period of 1985 through 2008.	31
Figure 32. Plot of above pycnocline cryptophyte biomass at station LE5.5 for the period of 1985 through 2008.	32
Figure 33. Plot of above pycnocline cyanophyte abundance at station LE5.5 for the period of 1985 through 2008.	33
Figure 34. Plot of above pycnocline phytoplankton IBI scores against time at station SBE5 for the period of 1985 through 2008.	34

Figure 35. Plot of above pycnocline total phytoplankton biomass against time at station SBE5 for the period of 1985 through 2008.	35
Figure 36. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station SBE5 for the period of 1985 through 2008.	36
Figure 37. Plot of above pycnocline Margalef diversity index against time at station SBE5 for the period of 1985 through 2008.	37
Figure 38. Plot of above pycnocline diatom biomass against time at station SBE5 for the period of 1985 through 2008.	38
Figure 39. Plot of above pycnocline dinoflagellate biomass against time at station SBE5 for the period of 1985 through 2008.	39
Figure 40. Plot of above pycnocline cyanobacteria biomass against time at station SBE5 for the period of 1985 through 2008.	40
Figure 41. Plot of above pycnocline chlorophyte biomass against time at station SBE5 for the period of 1985 through 2008.	41
Figure 42. Plot of above pycnocline picoplankton biomass against time at station SBE5 for the period of 1985 through 2008.	42
Figure 43. Plot of above pycnocline cryptophyte biomass at station SBE5 for the period of 1985 through 2008.	43
Figure 44. Plot of above pycnocline cyanophyte abundance at station SBE5 for the period of 1985 through 2008.	44
Figure 45. Plot of above pycnocline phytoplankton IBI scores against time at station TF4.2 for the period of 1985 through 2008.	45
Figure 46. Plot of above pycnocline total phytoplankton biomass against time at station TF4.2 for the period of 1985 through 2008.	46
Figure 47. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF4.2 for the period of 1985 through 2008.	47
Figure 48. Plot of above pycnocline Margalef diversity index against time at station TF4.2 for the period of 1985 through 2008.	48
Figure 49. Plot of above pycnocline diatom biomass against time at station TF4.2 for the period of 1985 through 2008.	49
Figure 50. Plot of above pycnocline dinoflagellate biomass against time at station TF4.2 for the period of 1985 through 2008.	50
Figure 51. Plot of above pycnocline cyanobacteria biomass against time at station TF4.2 for the period of 1985 through 2008.	51

Figure 52. Plot of above pycnocline chlorophyte biomass against time at station TF4.2 for the period of 1985 through 2008.....	52
Figure 53. Plot of above pycnocline picoplankton biomass against time at station TF4.2 for the period of 1985 through 2008.....	53
Figure 54. Plot of above pycnocline cryptophyte biomass at station TF4.2 for the period of 1985 through 2008.	54
Figure 55. Plot of above pycnocline cyanophyte abundance at station TF4.2 for the period of 1985 through 2008.	55
Figure 56. Plot of above pycnocline phytoplankton IBI scores against time at station RET4.3 for the period of 1985 through 2008.	56
Figure 57. Plot of above pycnocline total phytoplankton biomass against time at station RET4.3 for the period of 1985 through 2008.....	57
Figure 58. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET4.3 for the period of 1985 through 2008.	58
Figure 59. Plot of above pycnocline Margalef diversity index against time at station RET4.3 for the period of 1985 through 2008.	59
Figure 60. Plot of above pycnocline diatom biomass against time at station RET4.3 for the period of 1985 through 2008.....	60
Figure 61. Plot of above pycnocline dinoflagellate biomass against time at station RET4.3 for the period of 1985 through 2008.	61
Figure 62. Plot of above pycnocline cyanobacteria biomass against time at station RET4.3 for the period of 1985 through 2008.	62
Figure 63. Plot of above pycnocline chlorophyte biomass against time at station RET4.3 for the period of 1985 through 2008.....	63
Figure 64. Plot of above pycnocline picoplankton biomass against time at station RET4.3 for the period of 1985 through 2008.	64
Figure 65. Plot of above pycnocline cryptophyte biomass at station RET4.3 for the period of 1985 through 2008.	65
Figure 66. Plot of above pycnocline cyanophyte abundance at station RET4.3 for the period of 1985 through 2008.	66
Figure 67. Plot of above pycnocline phytoplankton IBI scores against time at station WE4.2 for the period of 1985 through 2008.	67
Figure 68. Plot of above pycnocline total phytoplankton biomass against time at station WE4.2 for the period of 1985 through 2008.....	68

Figure 69. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station WE4.2 for the period of 1985 through 2008.....	69
Figure 70. Plot of above pycnocline Margalef diversity index against time at station WE4.2 for the period of 1985 through 2008.	70
Figure 71. Plot of above pycnocline diatom biomass against time at station WE4.2 for the period of 1985 through 2008.....	71
Figure 72. Plot of above pycnocline dinoflagellate biomass against time at station WE4.2 for the period of 1985 through 2008.	72
Figure 73. Plot of above pycnocline cyanobacteria biomass against time at station WE4.2 for the period of 1985 through 2008.	73
Figure 74. Plot of above pycnocline chlorophyte biomass against time at station WE4.2 for the period of 1985 through 2008.....	74
Figure 75. Plot of above pycnocline picoplankton biomass against time at station WE4.2 for the period of 1985 through 2008.....	75
Figure 76. Plot of above pycnocline cryptophyte biomass at station WE4.2 for the period of 1985 through 2008.	76
Figure 77. Plot of above pycnocline cyanophyte abundance at station WE4.2 for the period of 1985 through 2008.	77
Figure 78. Plot of above pycnocline phytoplankton IBI scores against time at station TF3.3 for the period of 1985 through 2008.	78
Figure 79. Plot of above pycnocline total phytoplankton biomass against time at station TF3.3 for the period of 1985 through 2008.....	79
Figure 80. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF3.3 for the period of 1985 through 2008.	80
Figure 81. Plot of above pycnocline Margalef diversity index against time at station TF3.3 for the period of 1985 through 2008.	81
Figure 82. Plot of above pycnocline diatom biomass against time at station TF3.3 for the period of 1985 through 2008.	82
Figure 83. Plot of above pycnocline dinoflagellate biomass against time at station TF3.3 for the period of 1985 through 2008.....	83
Figure 84. Plot of above pycnocline cyanobacteria biomass against time at station TF3.3 for the period of 1985 through 2008.....	84
Figure 85. Plot of above pycnocline chlorophyte biomass against time at station TF3.3 for the period of 1985 through 2008.....	85

Figure 86. Plot of above pycnocline picoplankton biomass against time at station TF3.3 for the period of 1985 through 2008.....	86
Figure 87. Plot of above pycnocline cryptophyte biomass against time at station TF3.3 for the period of 1985 through 2008.....	87
Figure 88. Plot of above pycnocline cyanophyte abundance at station TF3.3 for the period of 1985 through 2008.	88
Figure 89. Plot of above pycnocline phytoplankton IBI scores against time at station RET3.1 for the period of 1985 through 2008.	89
Figure 90. Plot of above pycnocline total phytoplankton biomass against time at station RET3.1 for the period of 1985 through 2008.....	90
Figure 91. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET3.1 for the period of 1985 through 2008.	91
Figure 92. Plot of above pycnocline Margalef diversity index against time at station RET3.1 for the period of 1985 through 2008.	92
Figure 93. Plot of above pycnocline diatom biomass against time at station RET3.1 for the period of 1985 through 2008.....	93
Figure 94. Plot of above pycnocline dinoflagellate biomass against time at station RET3.1 for the period of 1985 through 2008.	94
Figure 95. Plot of above pycnocline cyanobacteria biomass against time at station RET3.1 for the period of 1985 through 2008.	95
Figure 96. Plot of above pycnocline chlorophyte biomass against time at station RET3.1 for the period of 1985 through 2008.....	96
Figure 97. Plot of above pycnocline picoplankton biomass against time at station RET3.1 for the period of 1985 through 2008.	97
Figure 98. Plot of above pycnocline cryptophyte biomass at station RET3.1 for the period of 1985 through 2008.	98
Figure 99. Plot of above pycnocline cyanophyte abundance at station RET3.1 for the period of 1985 through 2008.	99
Figure 100. Plot of above pycnocline phytoplankton IBI scores against time at station LE3.6 for the period of 1985 through 2008.	100
Figure 101. Plot of above pycnocline total phytoplankton biomass against time at station LE3.6 for the period of 1985 through 2008.....	101
Figure 102. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station LE3.6 for the period of 1985 through 2008.....	102

Figure 103. Plot of above pycnocline Margalef diversity index against time at station LE3.6 for the period of 1985 through 2008.	103
Figure 104. Plot of above pycnocline diatom biomass against time at station LE3.6 for the period of 1985 through 2008.	104
Figure 105. Plot of above pycnocline dinoflagellate biomass against time at station LE3.6 for the period of 1985 through 2008.	105
Figure 106. Plot of above pycnocline cyanobacteria biomass against time at station LE3.6 for the period of 1985 through 2008.	106
Figure 107. Plot of above pycnocline chlorophyte biomass against time at station LE3.6 for the period of 1985 through 2008.	107
Figure 108. Plot of above pycnocline picoplankton biomass against time at station LE3.6 for the period of 1985 through 2008.	108
Figure 109. Plot of above pycnocline cryptophyte biomass at station LE3.6 for the period of 1985 through 2008.	109
Figure 110. Plot of above pycnocline cyanophyte abundance at station LE3.6 for the period of 1985 through 2008.	110
Figure 111. Plot of above pycnocline phytoplankton IBI scores against time at station CB6.1 for the period of 1985 through 2008.	111
Figure 112. Plot of above pycnocline total phytoplankton biomass against time at station CB6.1 for the period of 1985 through 2008.	112
Figure 113. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB6.1 for the period of 1985 through 2008.	113
Figure 114. Plot of above pycnocline Margalef diversity index against time at station CB6.1 for the period of 1985 through 2008.	114
Figure 115. Plot of above pycnocline diatom biomass against time at station CB6.1 for the period of 1985 through 2008.	115
Figure 116. Plot of above pycnocline dinoflagellate biomass against time at station CB6.1 for the period of 1985 through 2008.	116
Figure 117. Plot of above pycnocline cyanobacteria biomass against time at station CB6.1 for the period of 1985 through 2008.	117
Figure 118. Plot of above pycnocline chlorophyte biomass against time at station CB6.1 for the period of 1985 through 2008.	118
Figure 119. Plot of above pycnocline picoplankton biomass against time at station CB6.1 for the period of 1985 through 2008.	119

Figure 120. Plot of above pycnocline cryptophyte biomass at station CB6.1 for the period of 1985 through 2008.	120
Figure 121. Plot of above pycnocline cyanophyte abundance at station CB6.1 for the period of 1985 through 2008.	121
Figure 122. Plot of above pycnocline phytoplankton IBI scores against time at station CB6.4 for the period of 1985 through 2008.	122
Figure 123. Plot of above pycnocline total phytoplankton biomass against time at station CB6.4 for the period of 1985 through 2008.	123
Figure 124. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB6.4 for the period of 1985 through 2008.	124
Figure 125. Plot of above pycnocline Margalef diversity index against time at station CB6.4 for the period of 1985 through 2008.	125
Figure 126. Plot of above pycnocline diatom biomass against time at station CB6.4 for the period of 1985 through 2008.	126
Figure 127. Plot of above pycnocline dinoflagellate biomass against time at station CB6.4 for the period of 1985 through 2008.	127
Figure 128. Plot of above pycnocline cyanobacteria biomass against time at station CB6.4 for the period of 1985 through 2008.	128
Figure 129. Plot of above pycnocline chlorophyte biomass against time at station CB6.4 for the period of 1985 through 2008.	129
Figure 130. Plot of above pycnocline picoplankton biomass against time at station CB6.4 for the period of 1985 through 2008.	130
Figure 131. Plot of above pycnocline cryptophyte biomass at station CB6.4 for the period of 1985 through 2008.	131
Figure 132. Plot of above pycnocline cyanophyte abundance at station CB6.4 for the period of 1985 through 2008.	132
Figure 133. Plot of above pycnocline phytoplankton IBI scores against time at station CB7.3E for the period of 1985 through 2008.	133
Figure 134. Plot of above pycnocline total phytoplankton biomass against time at station CB7.3E for the period of 1985 through 2008.	134
Figure 135. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB7.3E for the period of 1985 through 2008.	135
Figure 136. Plot of above pycnocline Margalef diversity index against time at station CB7.3E for the period of 1985 through 2008.	136

Figure 137. Plot of above pycnocline diatom biomass against time at station CB7.3E for the period of 1985 through 2008.....	137
Figure 138. Plot of above pycnocline dinoflagellate biomass against time at station CB7.3E for the period of 1985 through 2008.	138
Figure 139. Plot of above pycnocline cyanobacteria biomass against time at station CB7.3E for the period of 1985 through 2008.	139
Figure 140. Plot of above pycnocline chlorophyte biomass against time at station CB7.3E for the period of 1985 through 2008.	140
Figure 141. Plot of above pycnocline picoplankton biomass against time at station CB7.3E for the period of 1985 through 2008.	141
Figure 142. Plot of above pycnocline cryptophyte biomass at station CB7.3E for the period of 1985 through 2008.	142
Figure 143. Plot of above pycnocline cyanophyte abundance at station CB7.3E for the period of 1985 through 2008.	143
Figure 144. Plot of above pycnocline phytoplankton IBI scores against time at station CB7.4 for the period of 1985 through 2008.	144
Figure 145. Plot of above pycnocline total phytoplankton biomass against time at station CB7.4 for the period of 1985 through 2008.....	145
Figure 146. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB7.4 for the period of 1985 through 2008.	146
Figure 147. Plot of above pycnocline Margalef diversity index against time at station CB7.4 for the period of 1985 through 2008.	147
Figure 148. Plot of above pycnocline diatom biomass against time at station CB7.4 for the period of 1985 through 2008.....	148
Figure 149. Plot of above pycnocline dinoflagellate biomass against time at station CB7.4 for the period of 1985 through 2008.	149
Figure 150. Plot of above pycnocline cyanobacteria biomass against time at station CB7.4 for the period of 1985 through 2008.	150
Figure 151. Plot of above pycnocline chlorophyte biomass against time at station CB7.4 for the period of 1985 through 2008.....	151
Figure 152. Plot of above pycnocline picoplankton biomass against time at station CB7.4 for the period of 1985 through 2008.	152
Figure 153. Plot of above pycnocline cryptophyte biomass at station CB7.4 for the period of 1985 through 2008.	153

Figure 154. Plot of above pycnocline cyanophyte abundance at station CB7.4 for the period of 1985 through 2008.	154
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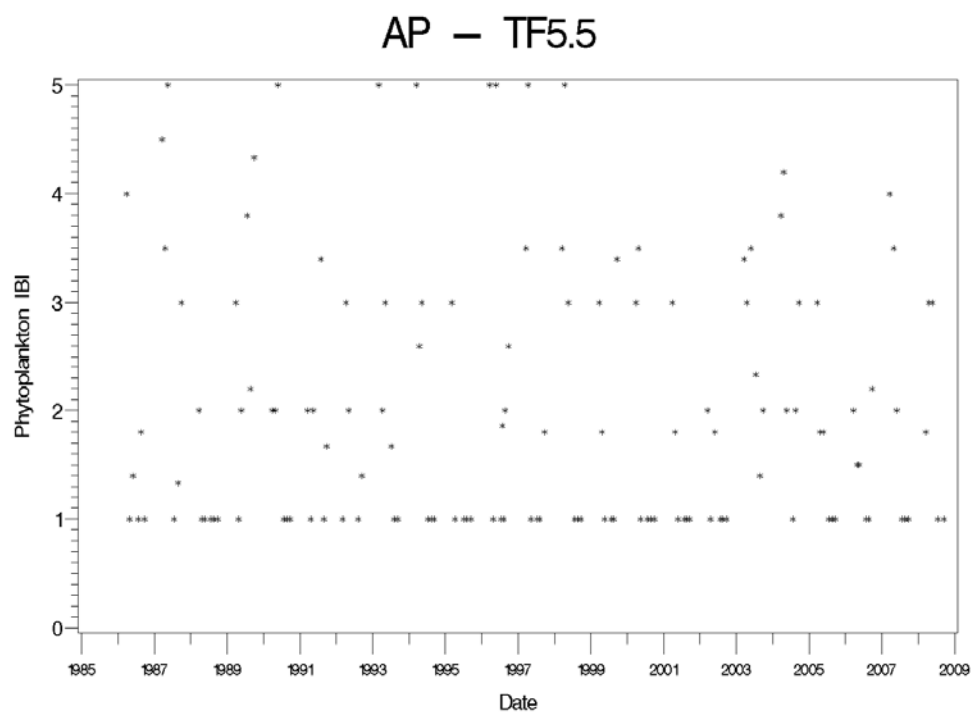


Figure 1. Plot of above pycnocline phytoplankton IBI scores against time at station TF5.5 for the period of 1985 through 2008.

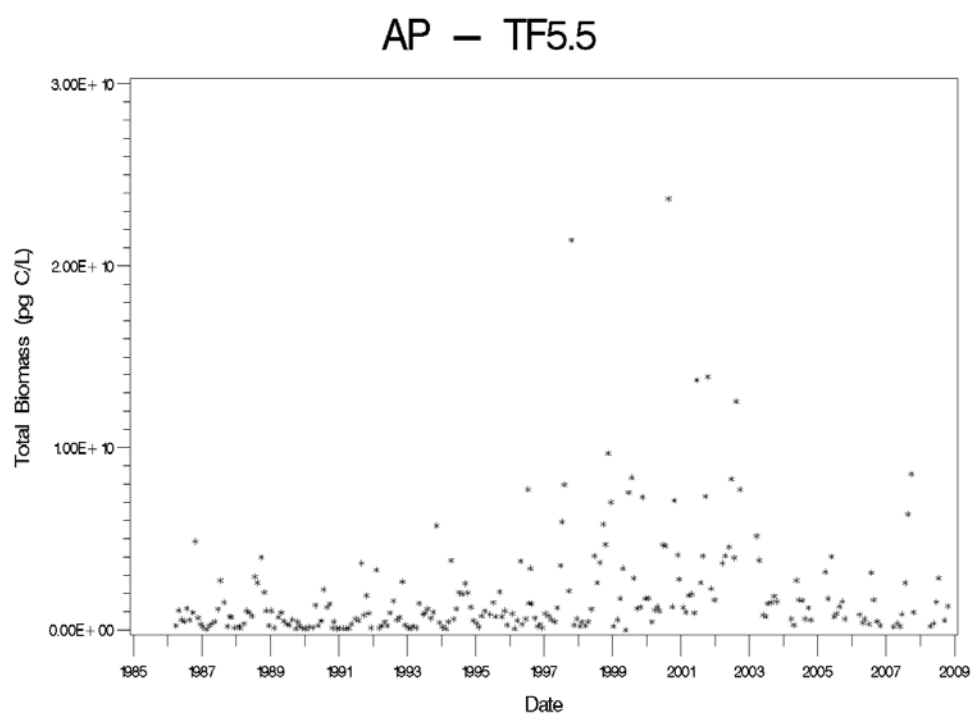


Figure 2. Plot of above pycnocline total phytoplankton biomass against time at station TF5.5 for the period of 1985 through 2008.

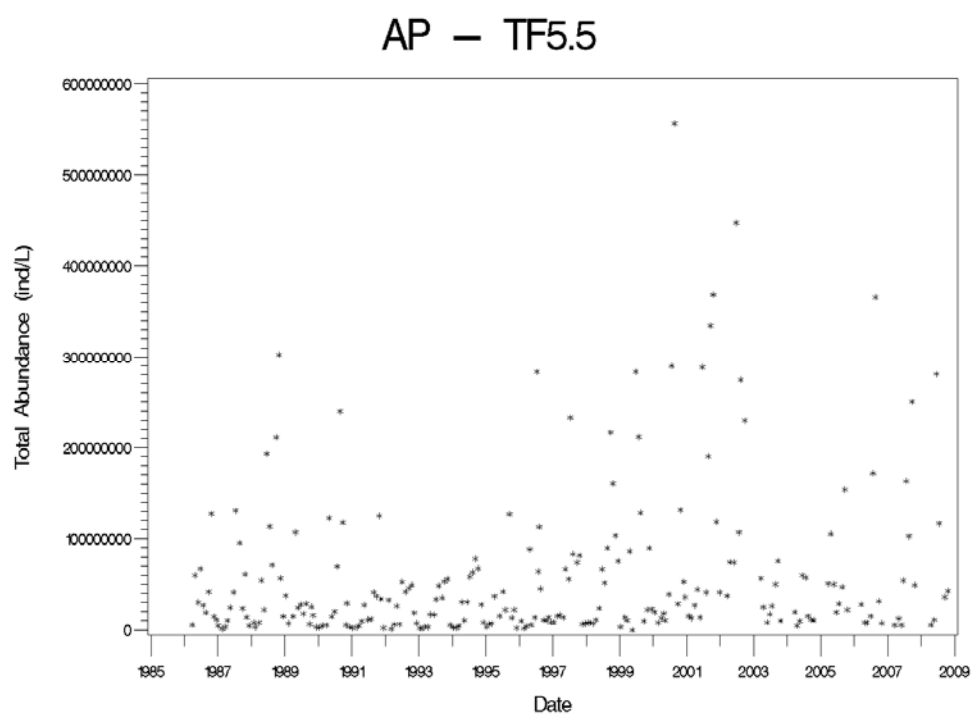


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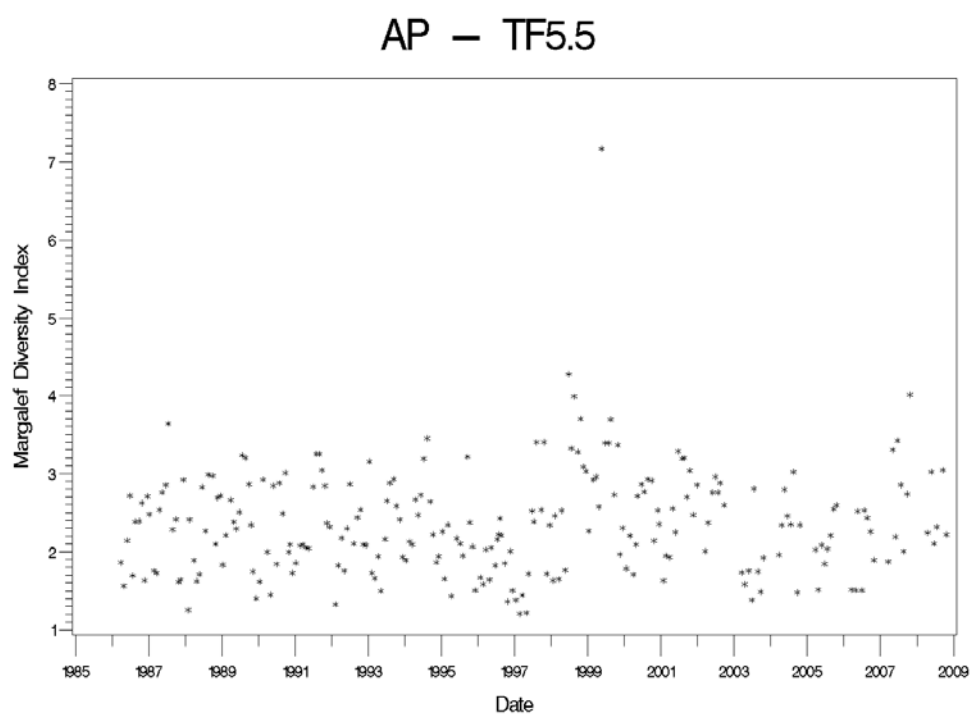


Figure 4. Plot of above pycnocline Margalef diversity index against time at station TF5.5 for the period of 1985 through 2008.

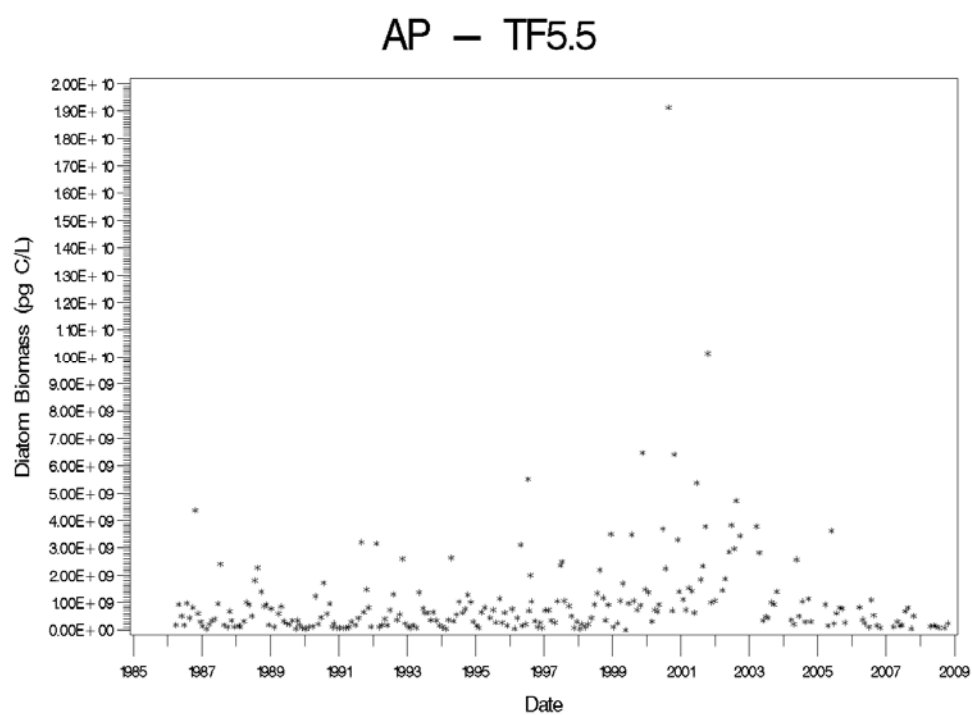


Figure 5. Plot of above pycnocline diatom biomass against time at station TF5.5 for the period of 1985 through 2008.

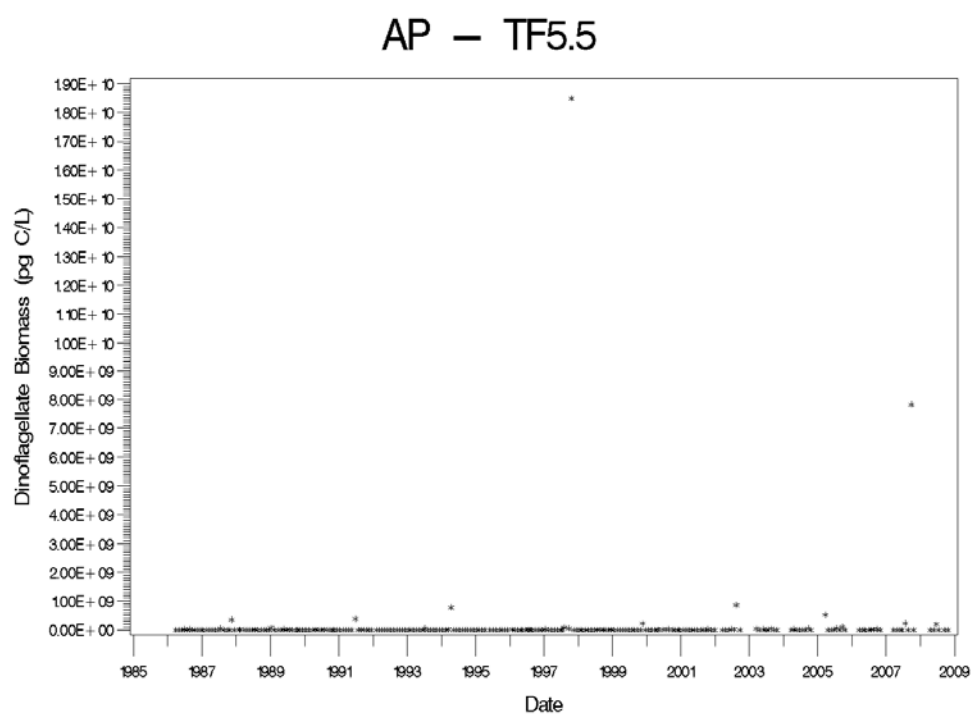


Figure 6. Plot of above pycnocline dinoflagellate biomass against time at station TF5.5 for the period of 1985 through 2008.

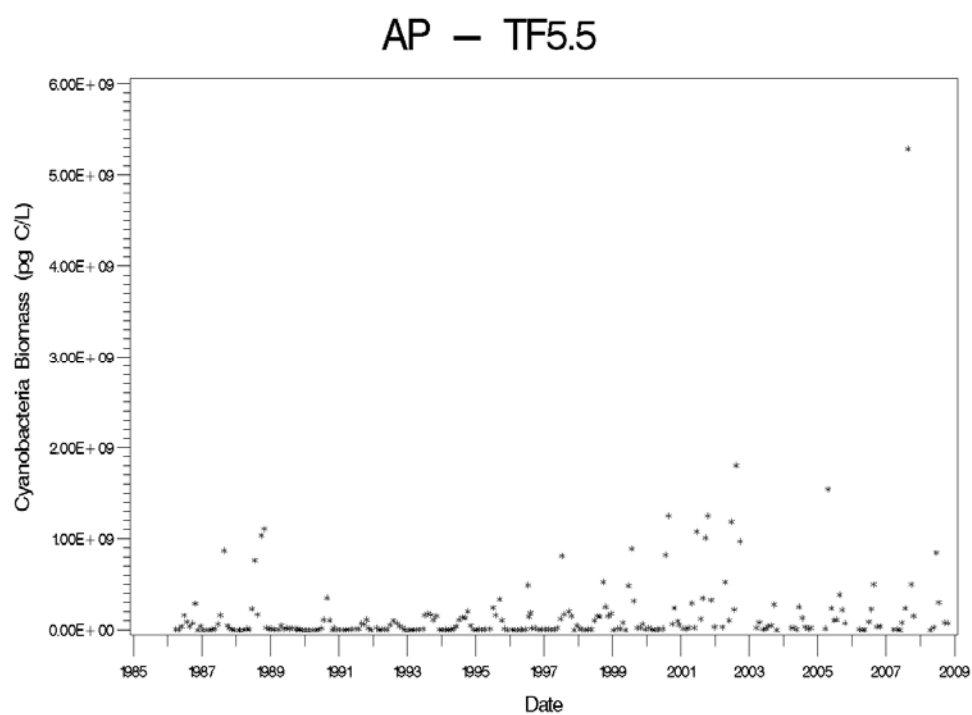


Figure 7. Plot of above pycnocline cyanobacteria biomass against time at station TF5.5 for the period of 1985 through 2008.

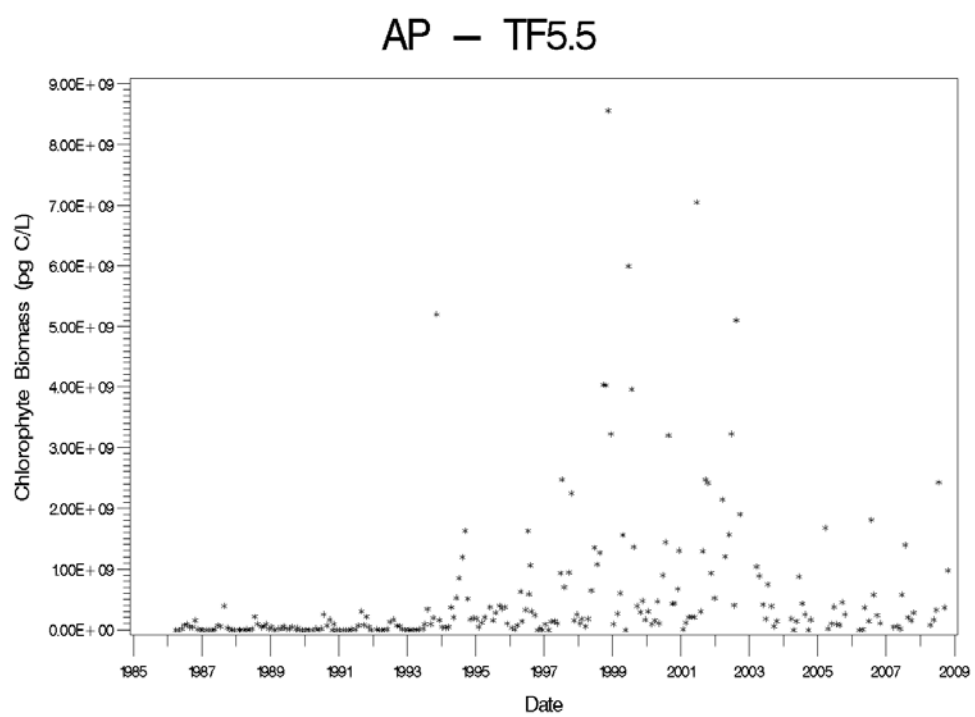


Figure 8. Plot of above pycnocline chlorophyte biomass against time at station TF5.5 for the period of 1985 through 2008.

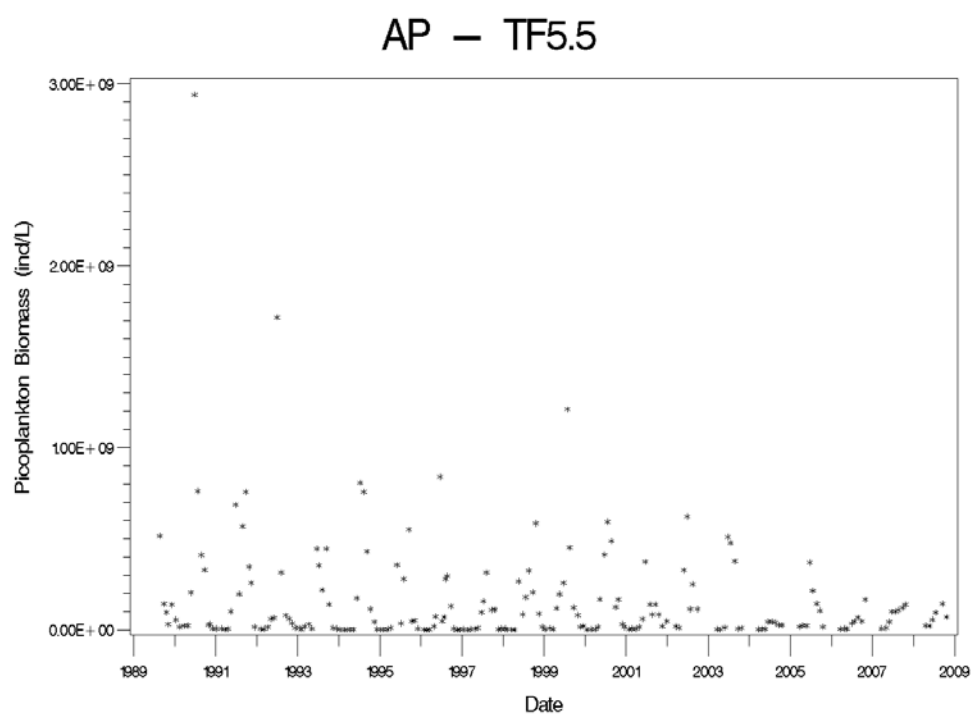


Figure 9. Plot of above pycnocline picoplankton biomass against time at station TF5.5 for the period of 1985 through 2008.

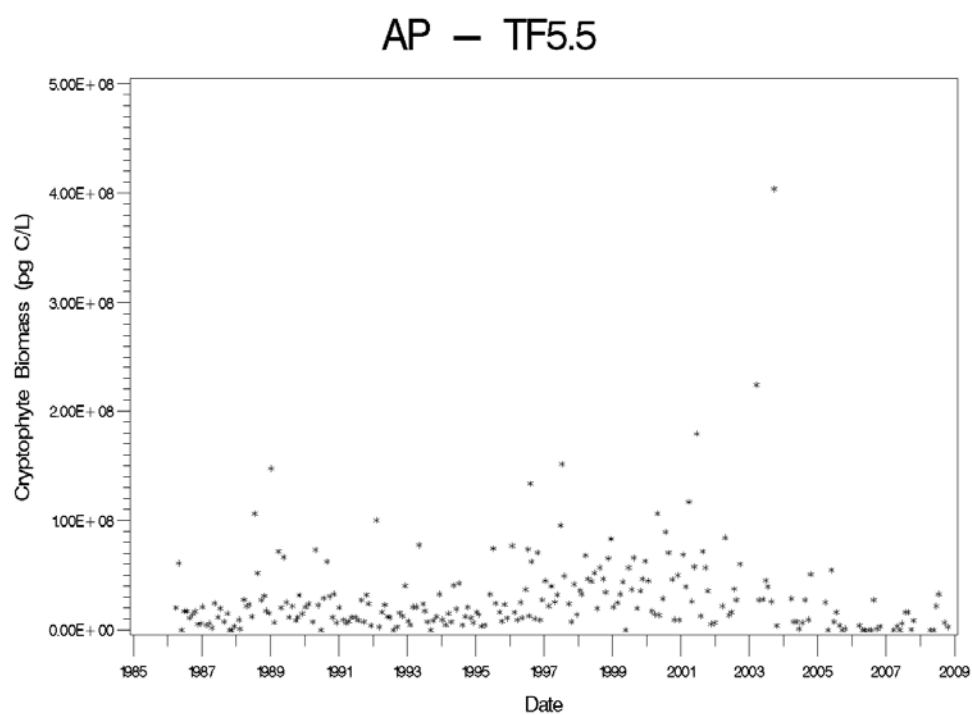


Figure 10. Plot of above pycnocline cryptophyte biomass at station TF5.5 for the period of 1985 through 2008

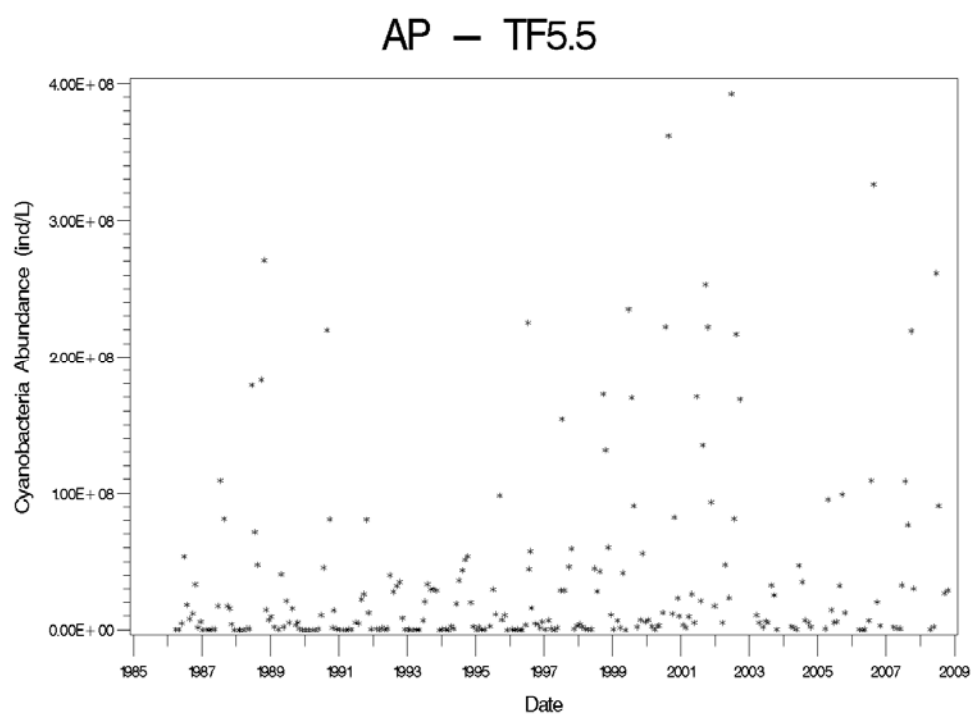


Figure 11. Plot of above pycnocline cyanophyte abundance at station TF5.5 for the period of 1985 through 2008.

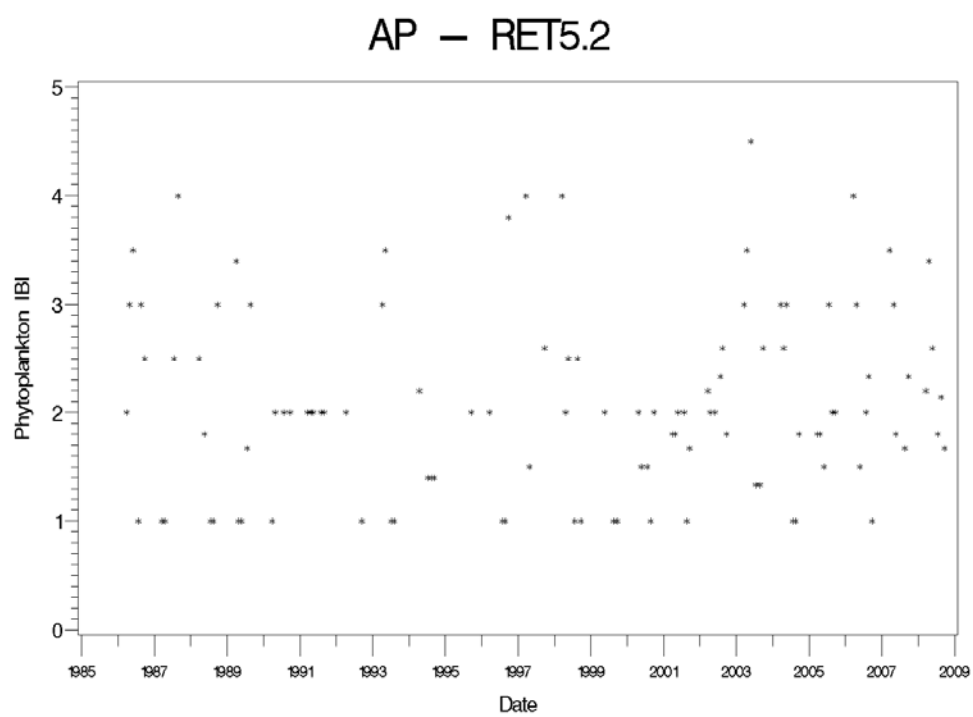


Figure 12. Plot of above pycnocline phytoplankton IBI scores against time at station RET5.2 for the period of 1985 through 2008.

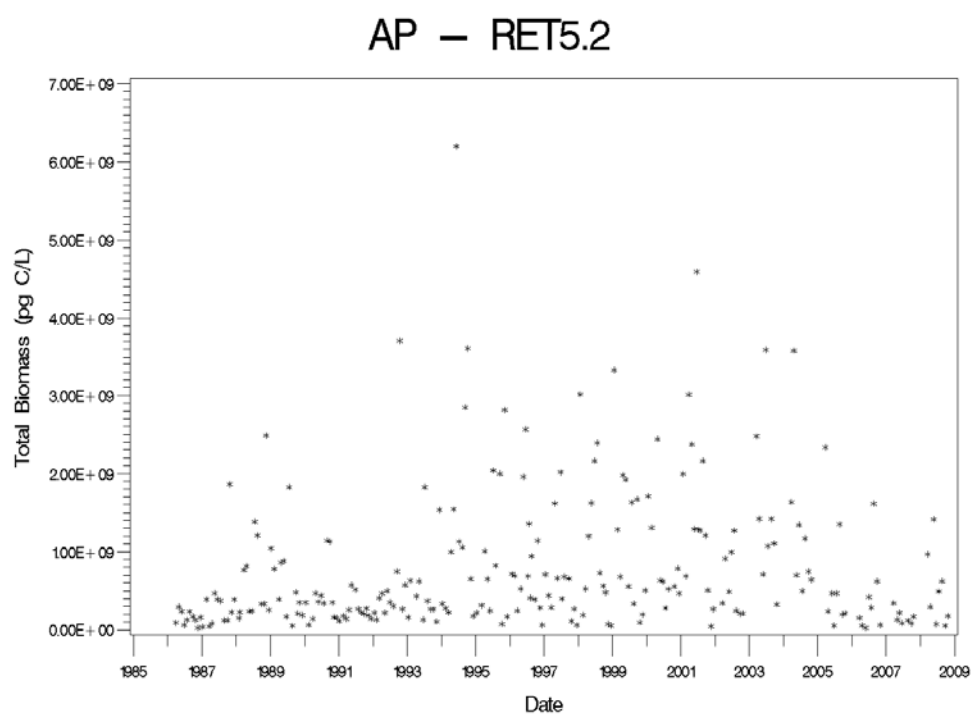


Figure 13. Plot of above pycnocline total phytoplankton biomass against time at station RET5.2 for the period of 1985 through 2008.

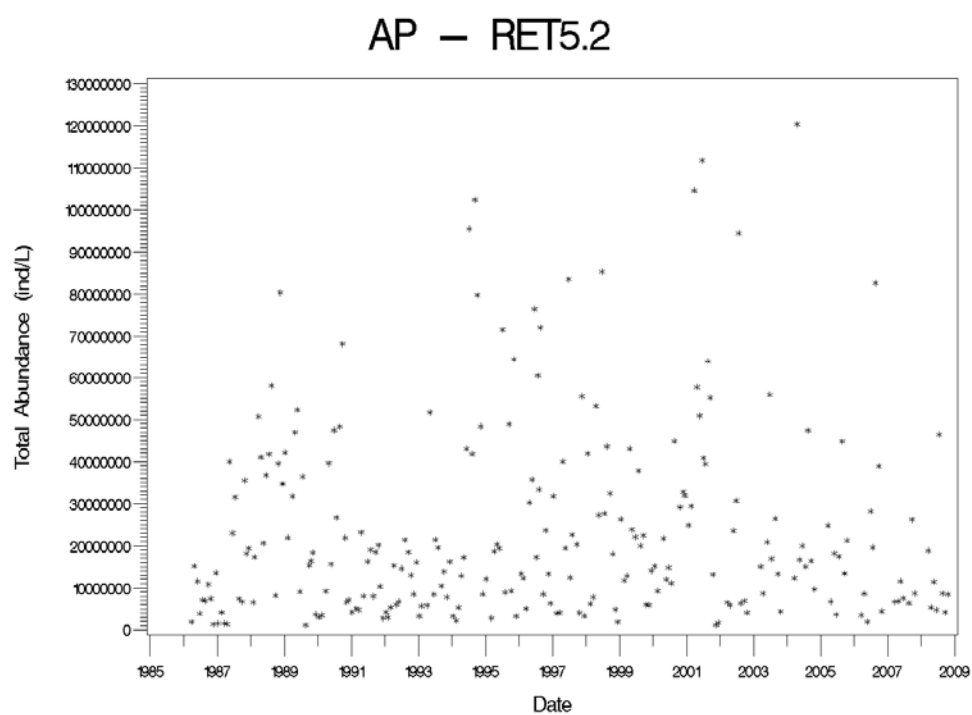


Figure 14. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET5.2 for the period of 1985 through 2008.

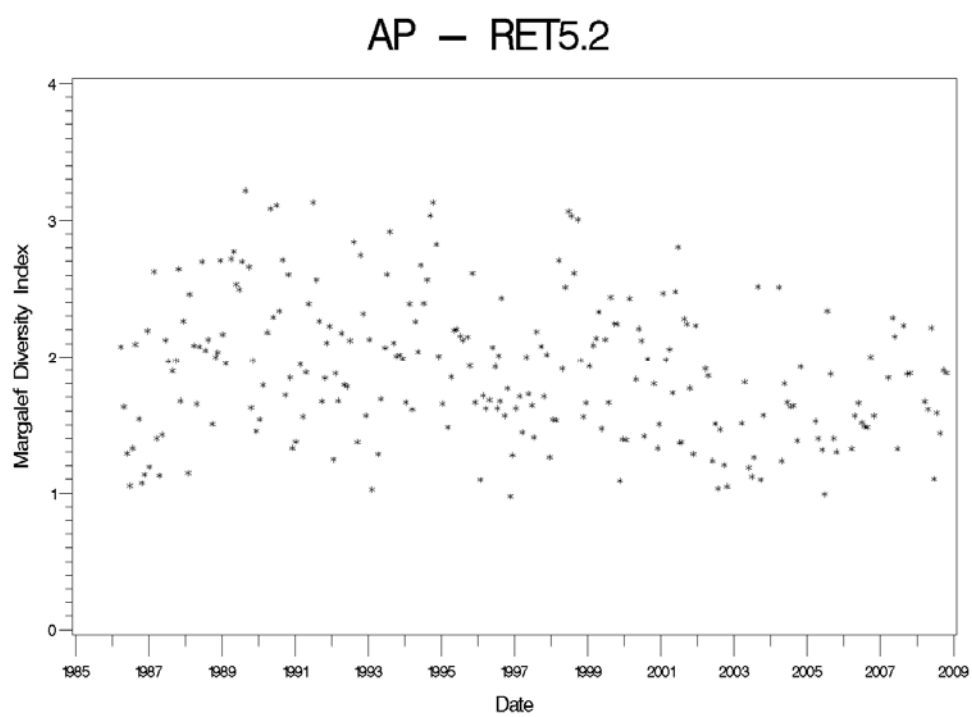


Figure 15. Plot of above pycnocline Margalef diversity index against time at station RET5.2 for the period of 1985 through 2008.

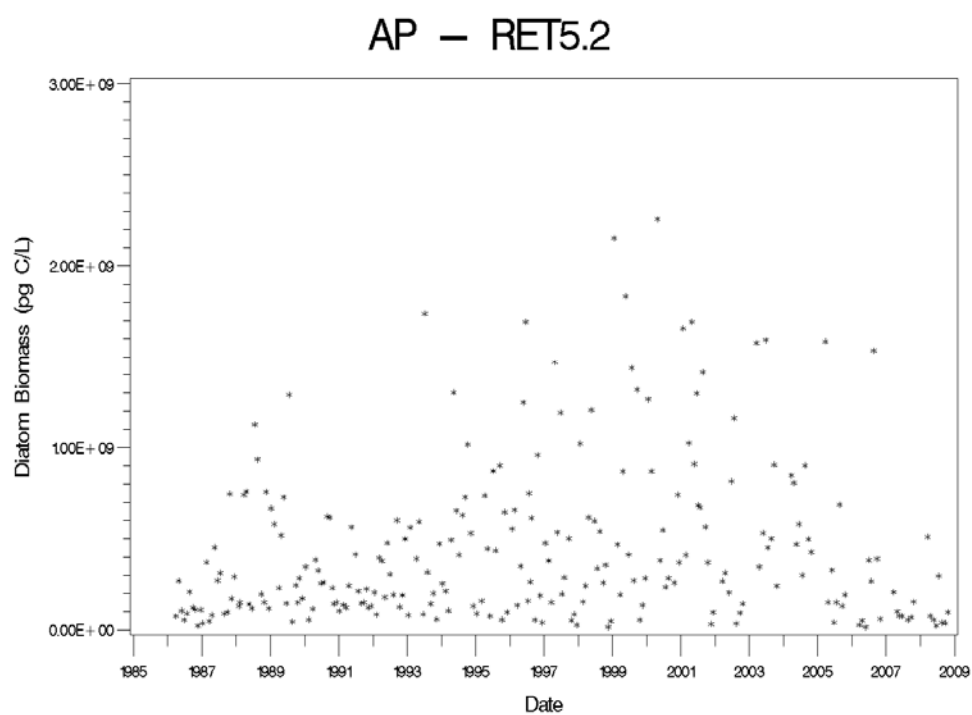


Figure 16. Plot of above pycnocline diatom biomass against time at station RET5.2 for the period of 1985 through 2008.

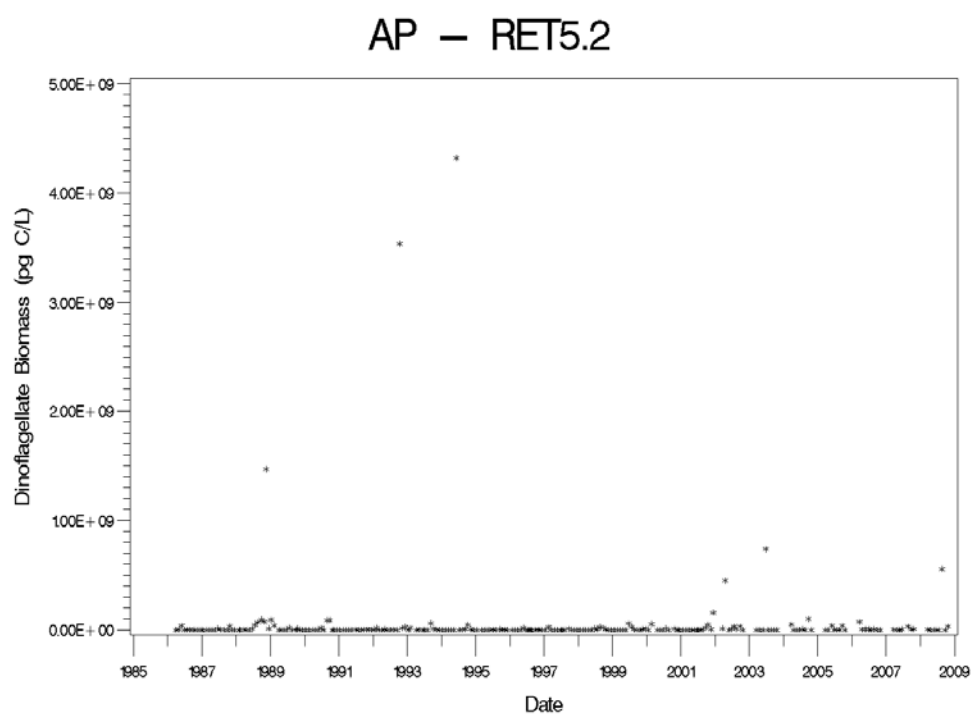


Figure 17. Plot of above pycnocline dinoflagellate biomass against time at station RET5.2 for the period of 1985 through 2008.

AP – RET5.2

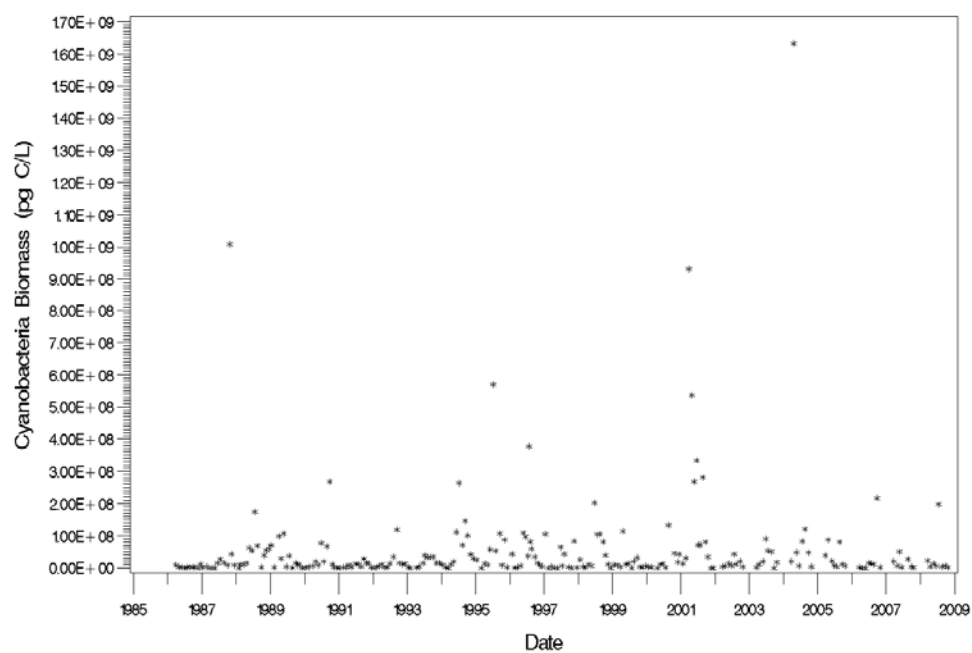


Figure 18. Plot of above pycnocline cyanobacteria biomass against time at station RET5.2 for the period of 1985 through 2008.

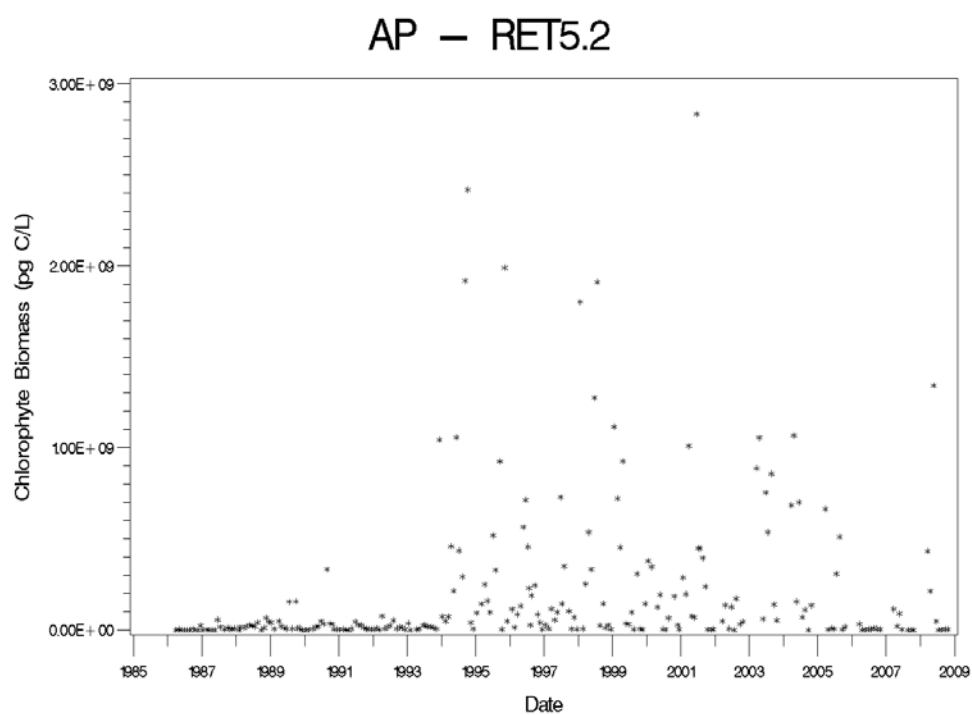


Figure 19. Plot of above pycnocline chlorophyte biomass against time at station RET5.2 for the period of 1985 through 2008.

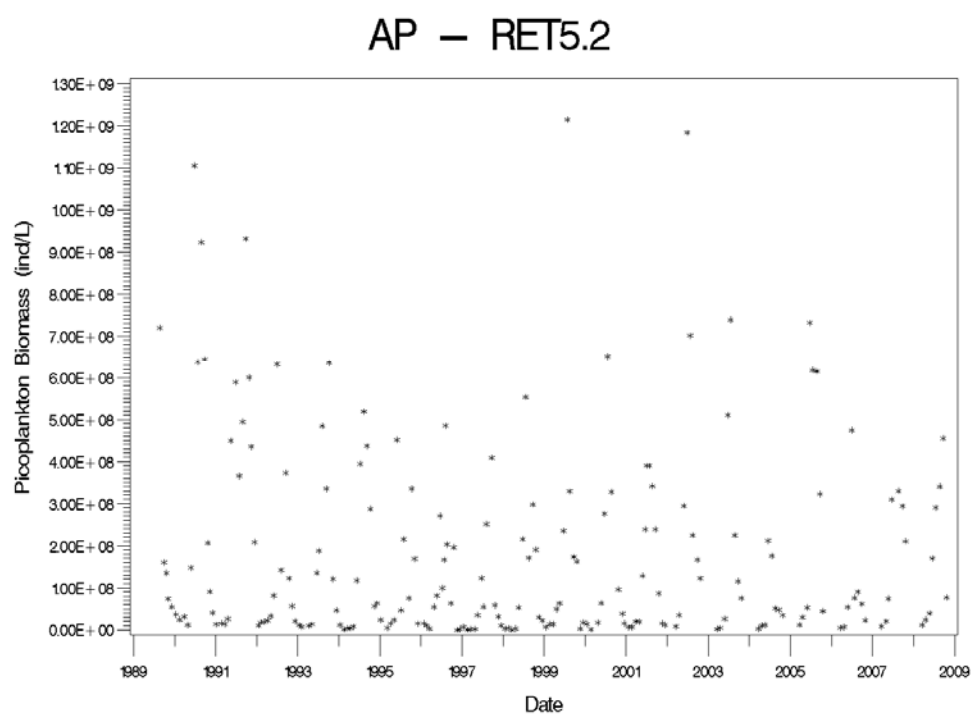


Figure 20. Plot of above pycnocline picoplankton biomass against time at station RET5.2 for the period of 1985 through 2008.

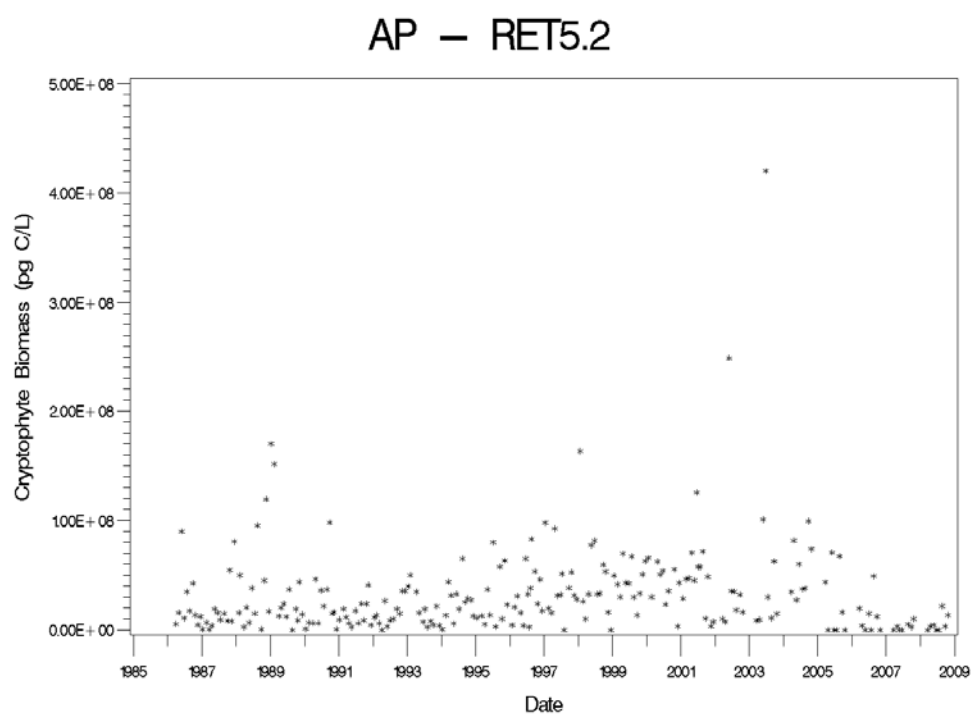


Figure 21. Plot of above pycnocline cryptophyte biomass at station RET5.2 for the period of 1985 through 2008.

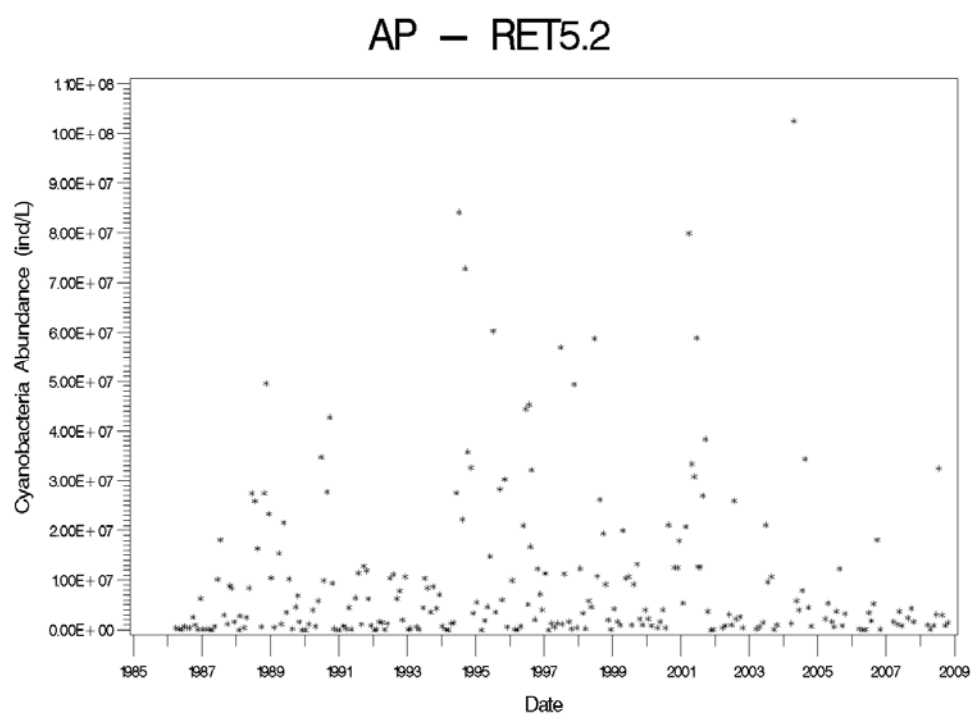


Figure 22. Plot of above pycnocline cyanophyte abundance at station RET5.2 for the period of 1985 through 2008.

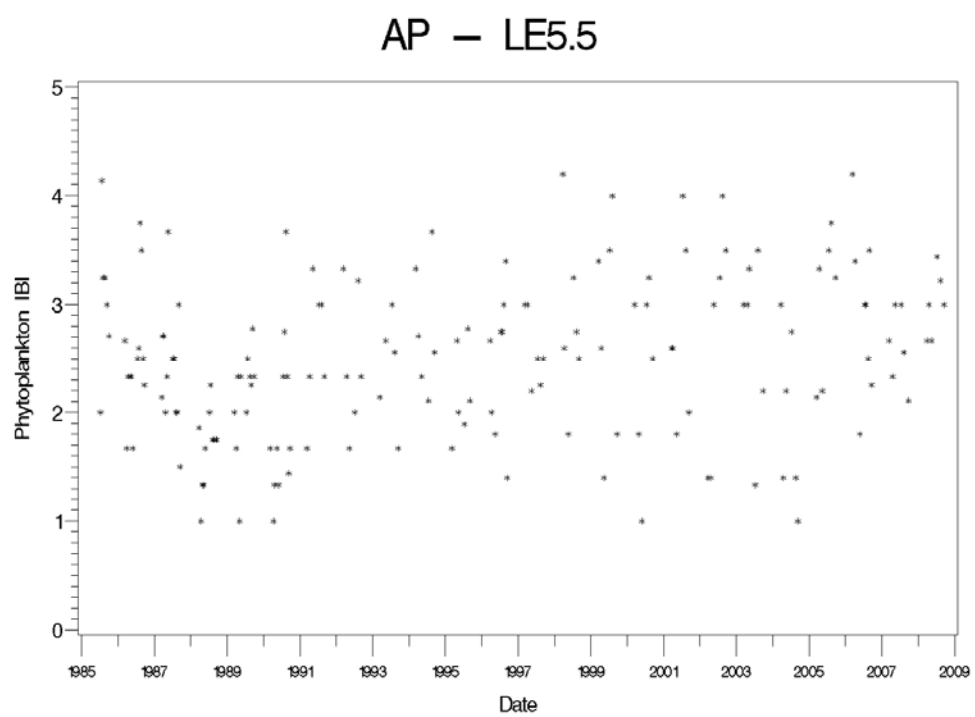


Figure 23. Plot of above pycnocline phytoplankton IBI scores against time at station LE5.5 for the period of 1985 through 2008.

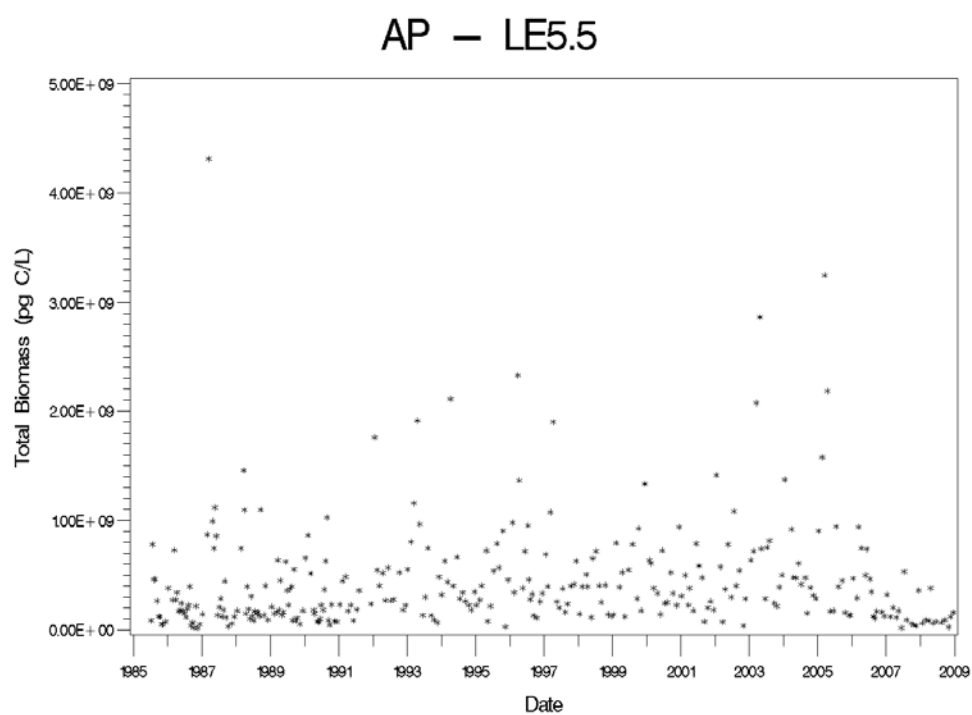


Figure 24. Plot of above pycnocline total phytoplankton biomass against time at station LE5.5 for the period of 1985 through 2008.

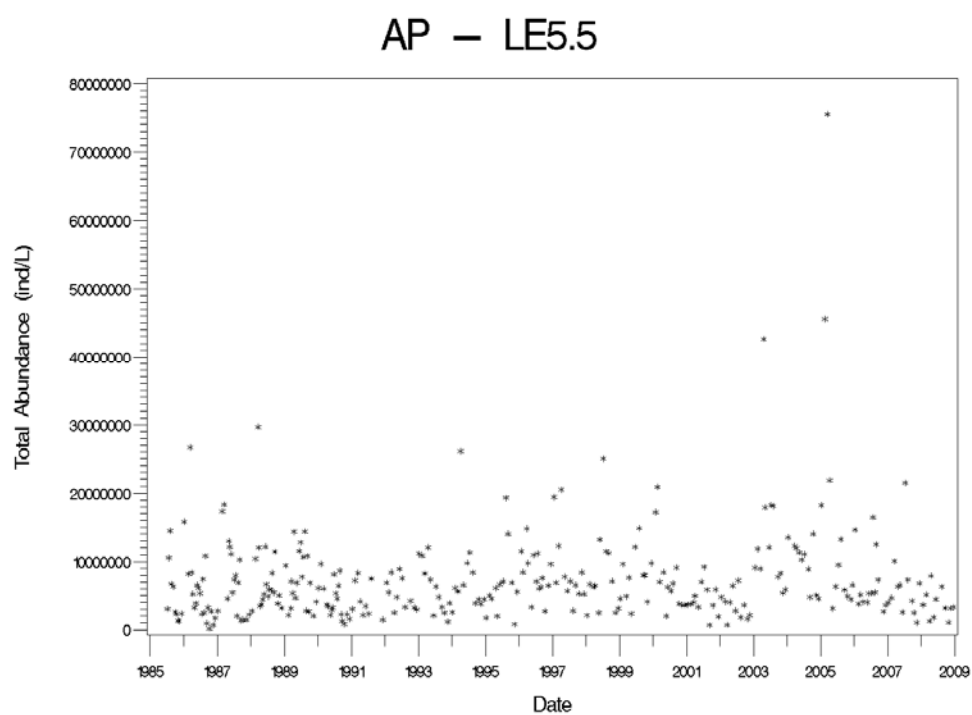


Figure 25. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station LE5.5 for the period of 1985 through 2008.

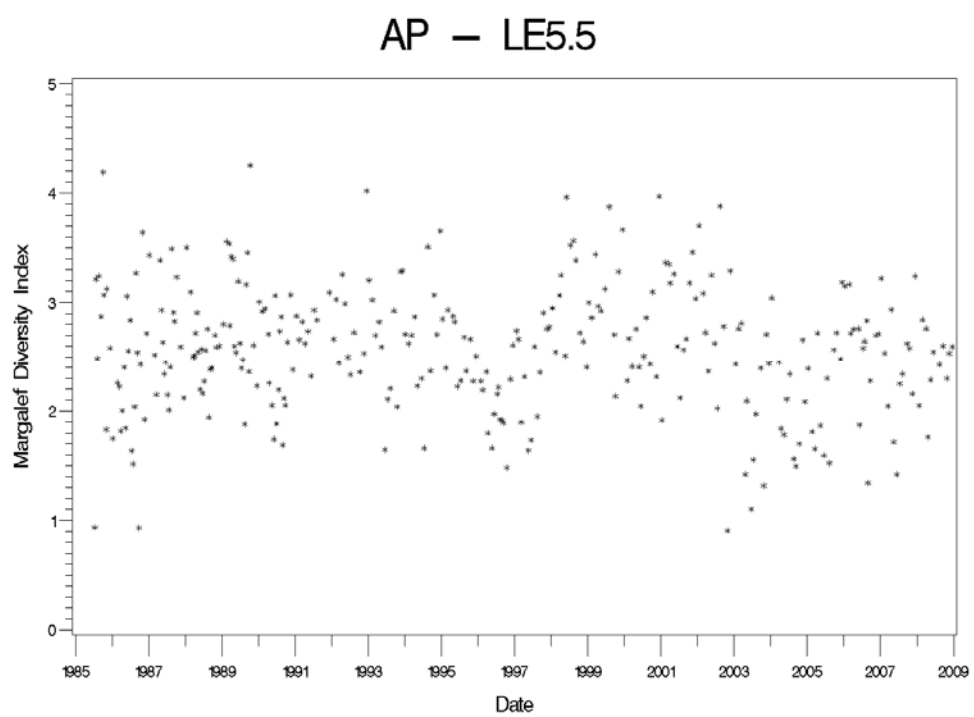


Figure 26. Plot of above pycnocline Margalef diversity index against time at station LE5.5 for the period of 1985 through 2008.

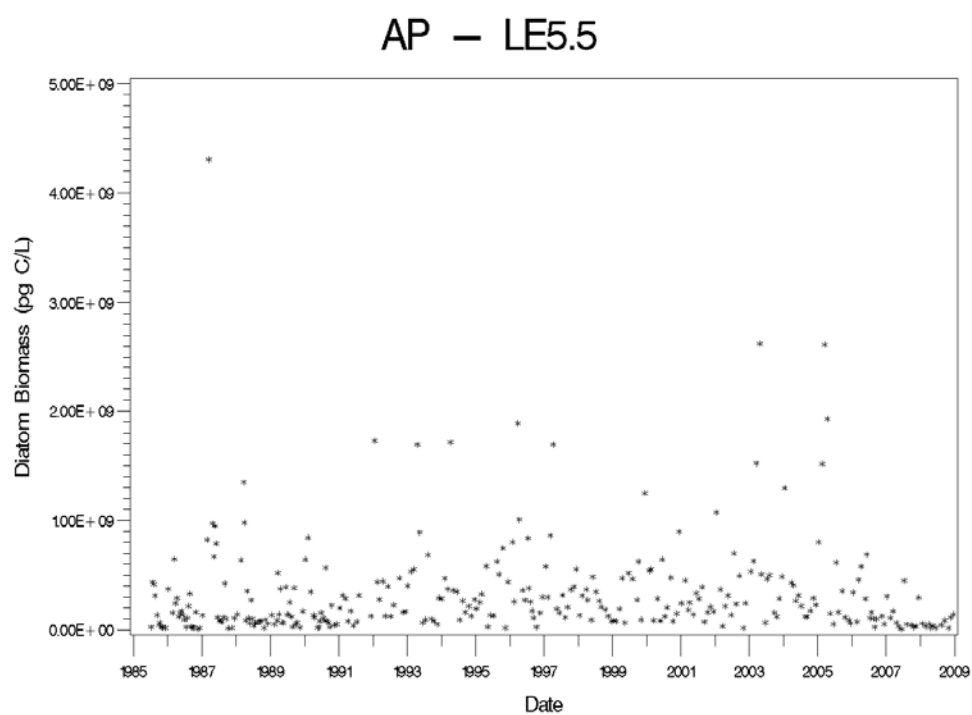


Figure 27. Plot of above pycnocline diatom biomass against time at station LE5.5 for the period of 1985 through 2008.

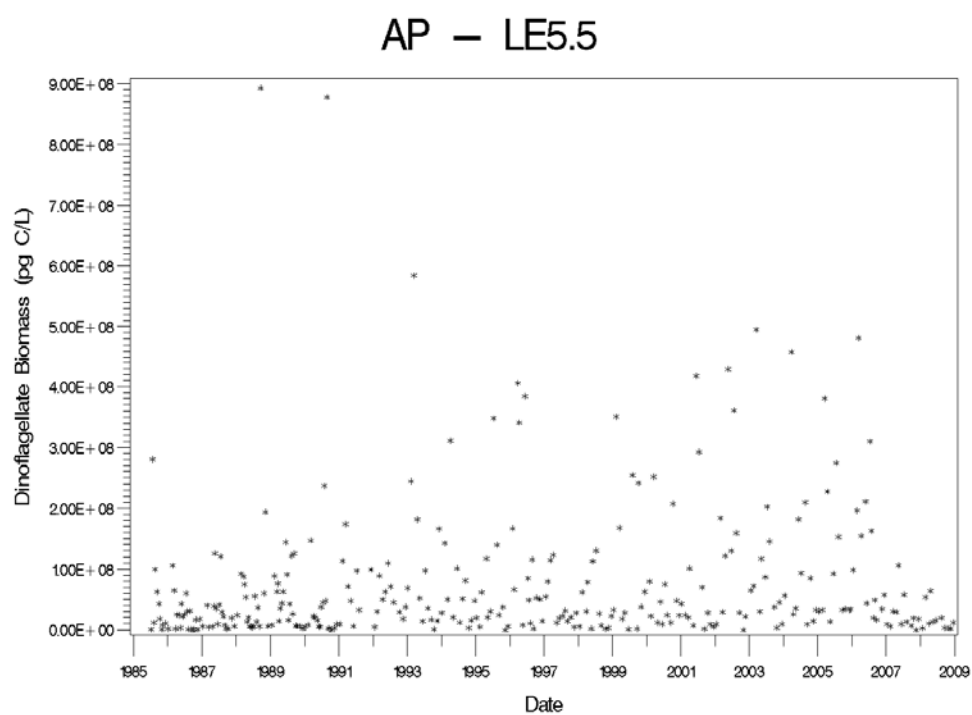


Figure 28. Plot of above pycnocline dinoflagellate biomass against time at station LE5.5 for the period of 1985 through 2008.

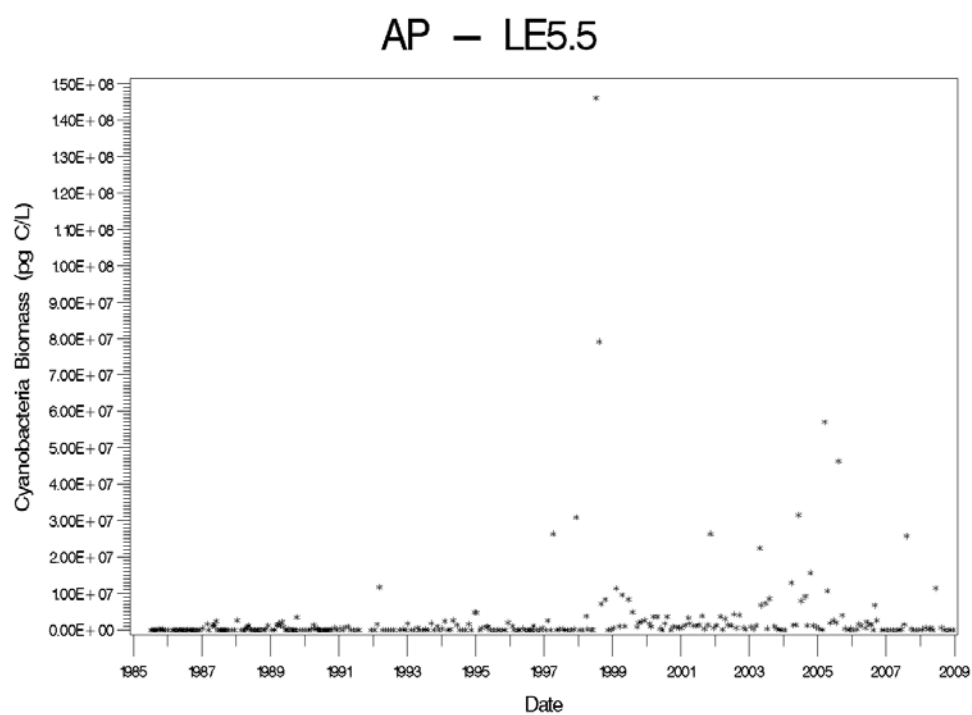


Figure 29. Plot of above pycnocline cyanobacteria biomass against time at station LE5.5 for the period of 1985 through 2008.

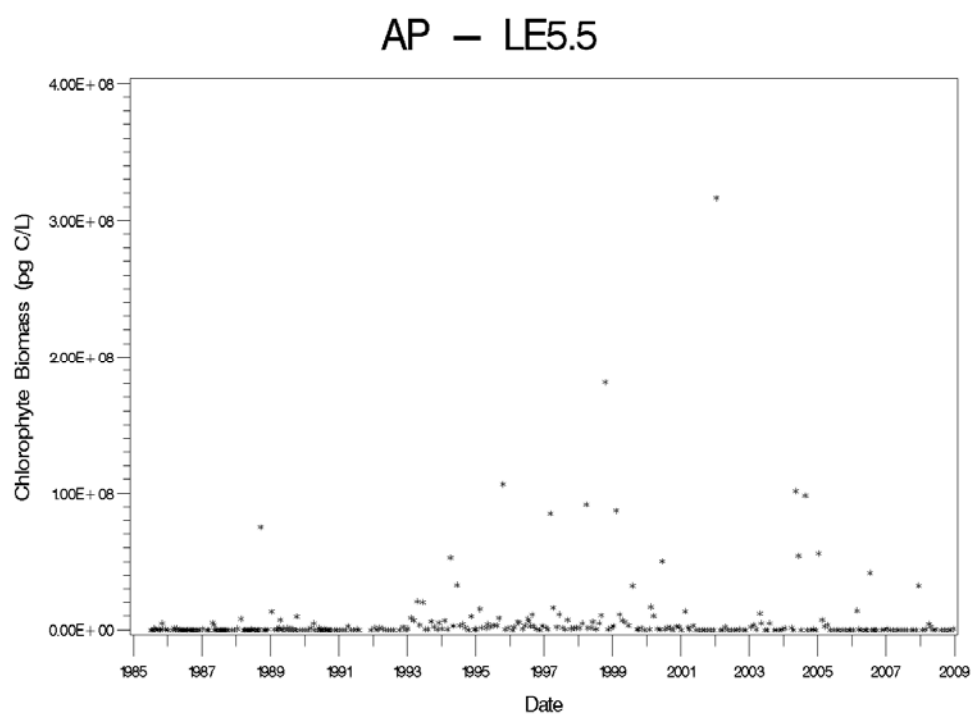


Figure 30. Plot of above pycnocline chlorophyte biomass against time at station LE5.5 for the period of 1985 through 2008.

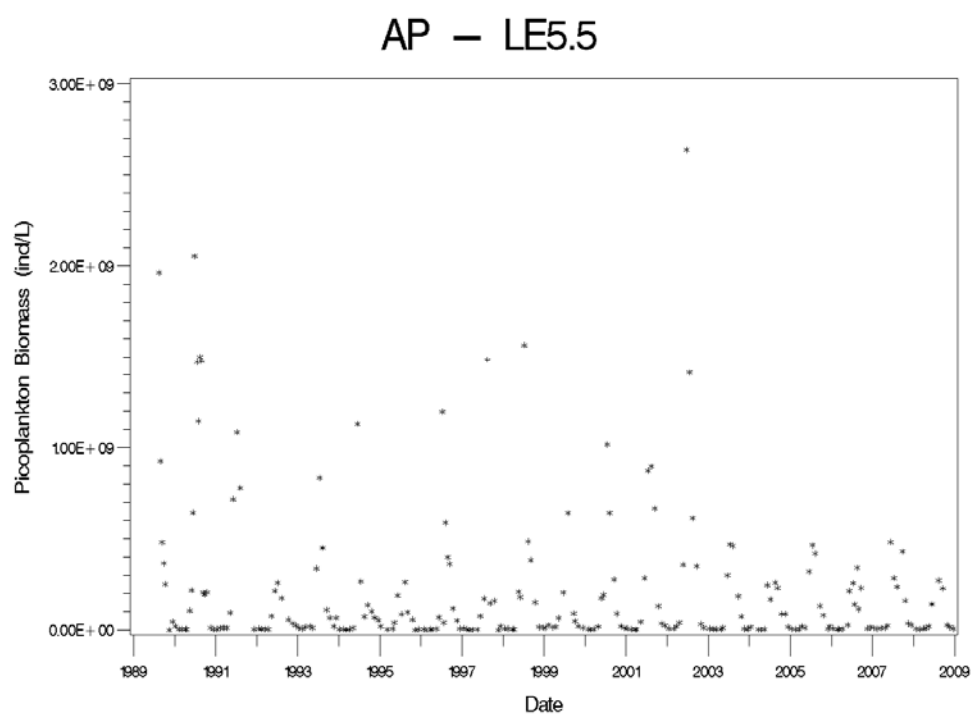


Figure 31. Plot of above pycnocline picoplankton biomass against time at station LE5.5 for the period of 1985 through 2008.

AP – LE5.5

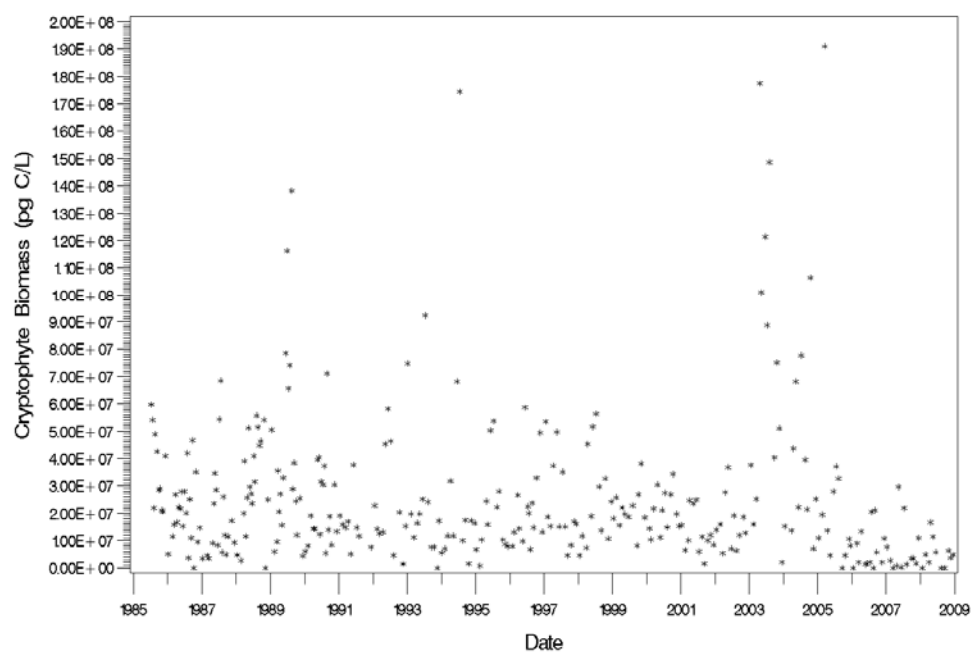


Figure 32. Plot of above pycnocline cryptophyte biomass at station LE5.5 for the period of 1985 through 2008.

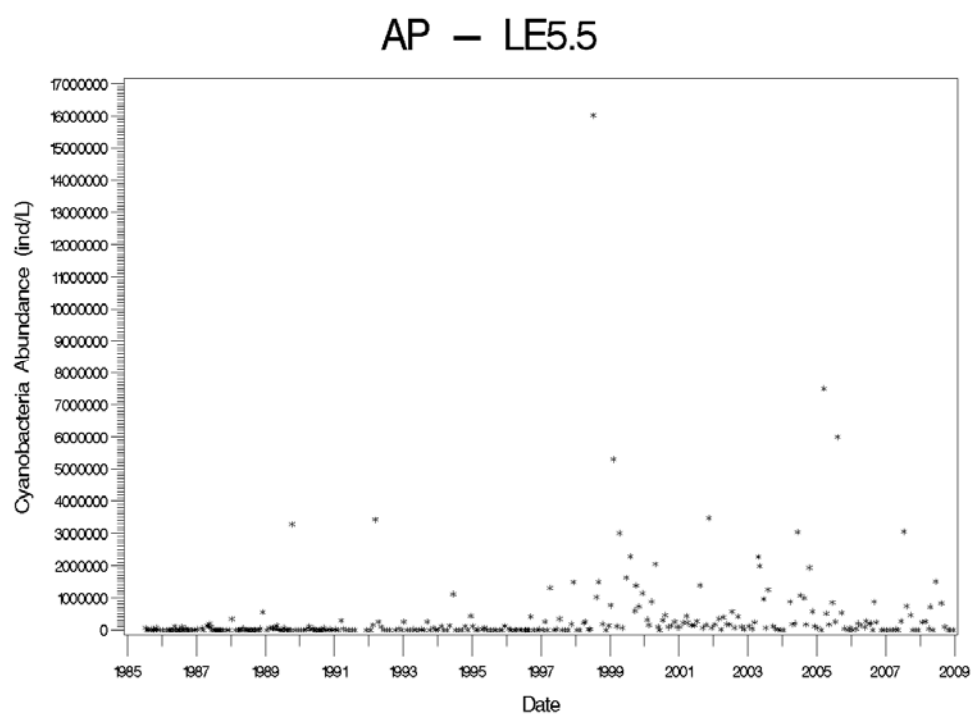


Figure 33. Plot of above pycnocline cyanophyte abundance at station LE5.5 for the period of 1985 through 2008.

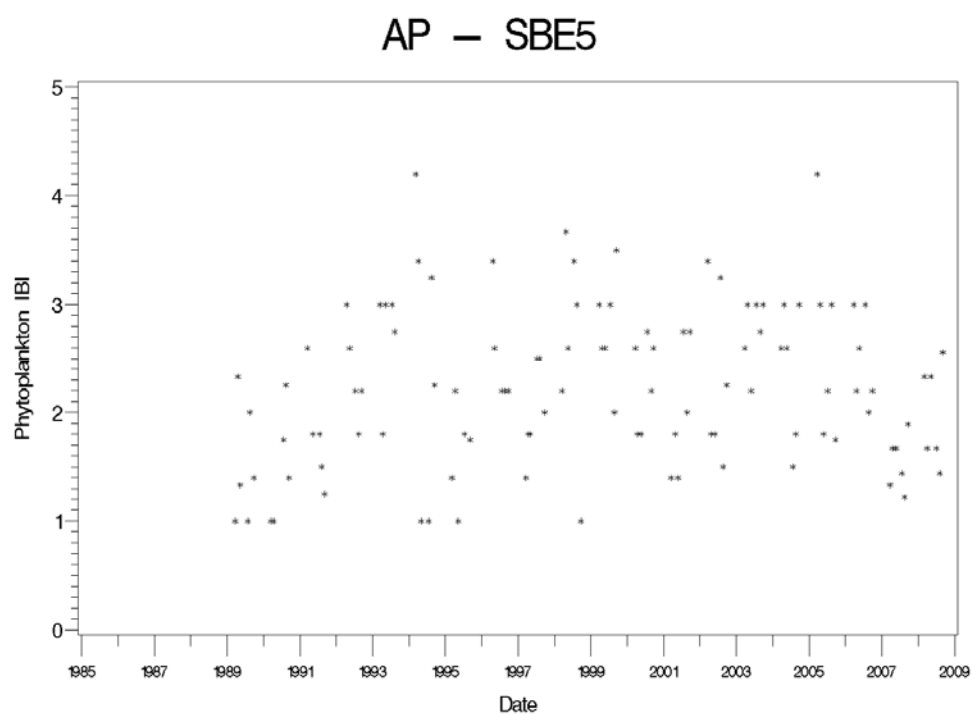


Figure 34. Plot of above pycnocline phytoplankton IBI scores against time at station SBE5 for the period of 1985 through 2008.

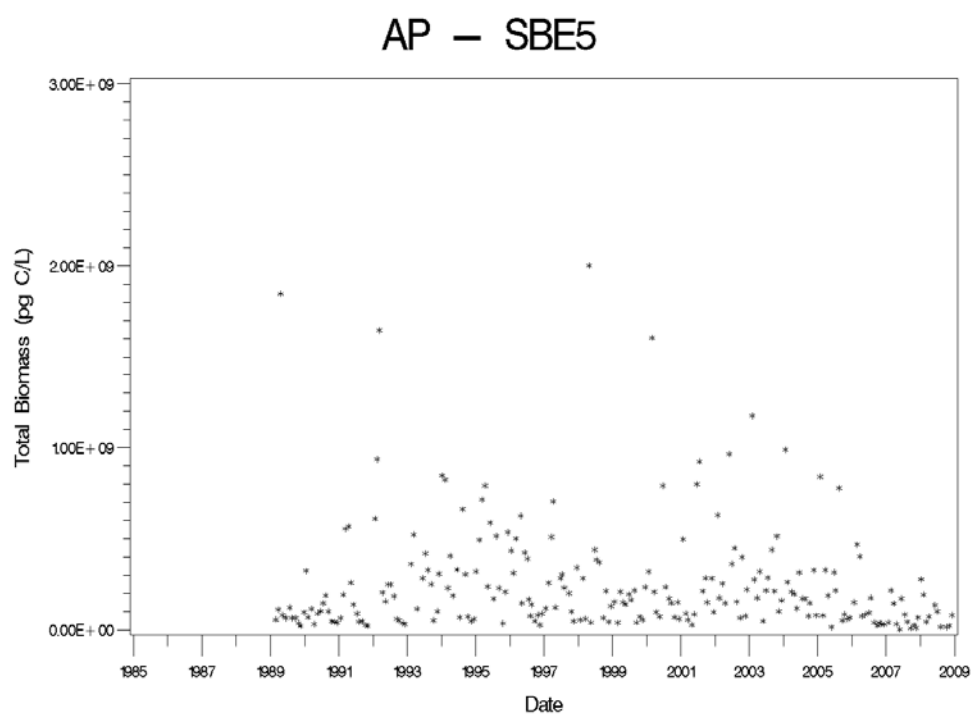


Figure 35. Plot of above pycnocline total phytoplankton biomass against time at station SBE5 for the period of 1985 through 2008.

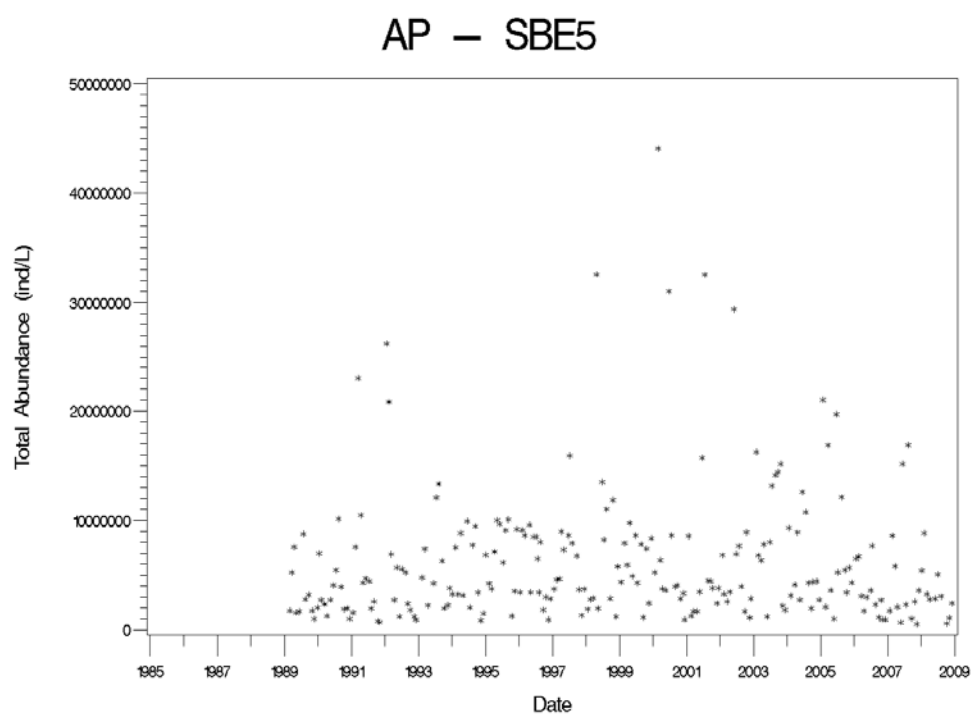


Figure 36. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station SBE5 for the period of 1985 through 2008.

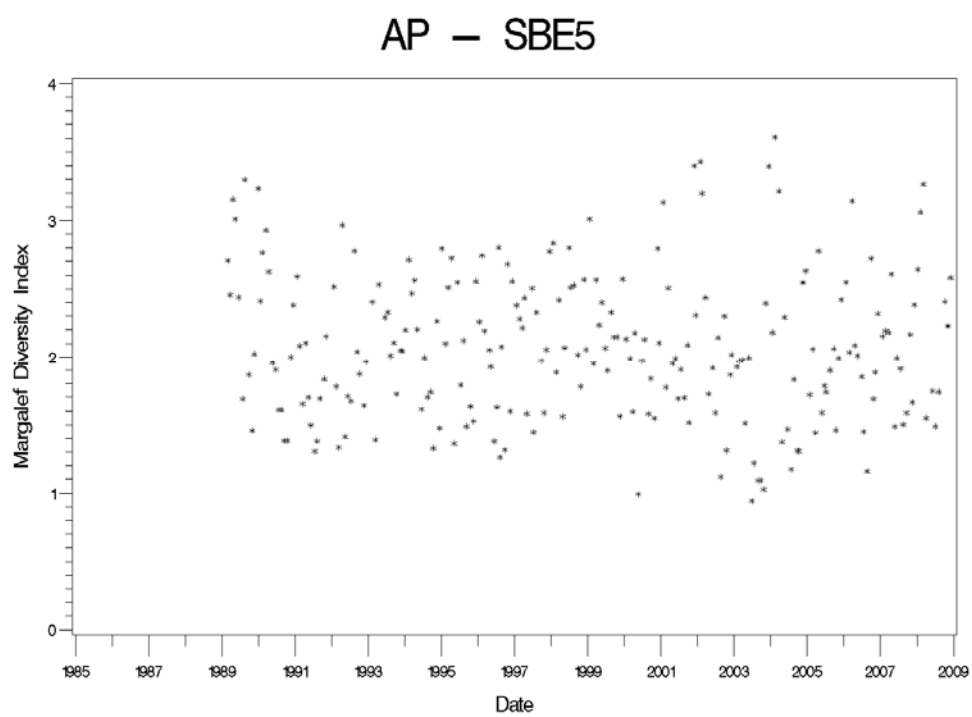


Figure 37. Plot of above pycnocline Margalef diversity index against time at station SBE5 for the period of 1985 through 2008.

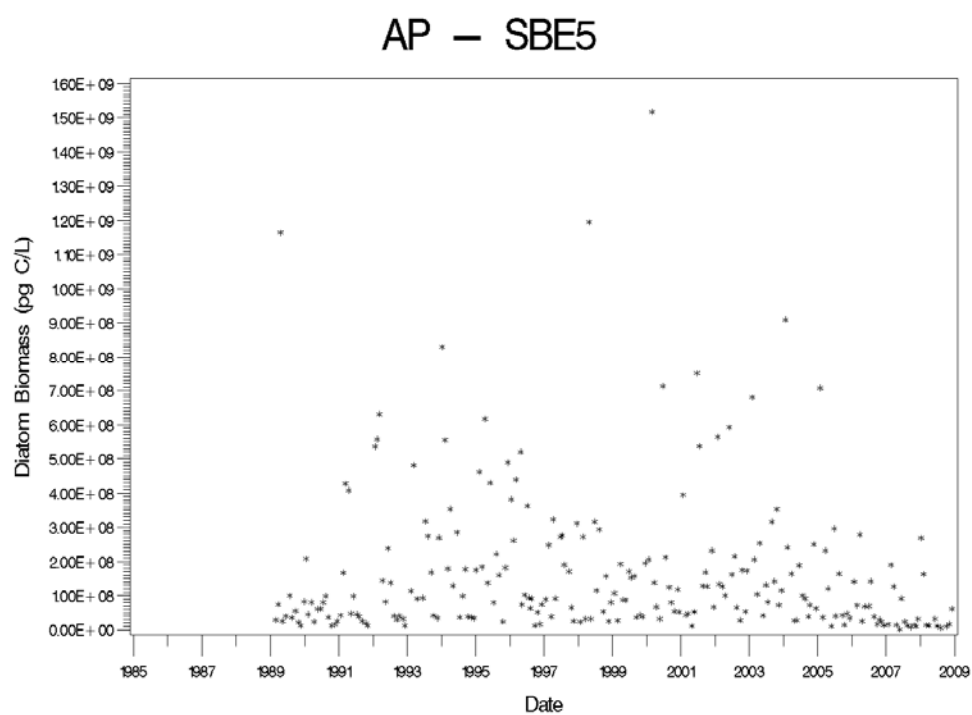


Figure 38. Plot of above pycnocline diatom biomass against time at station SBE5 for the period of 1985 through 2008.

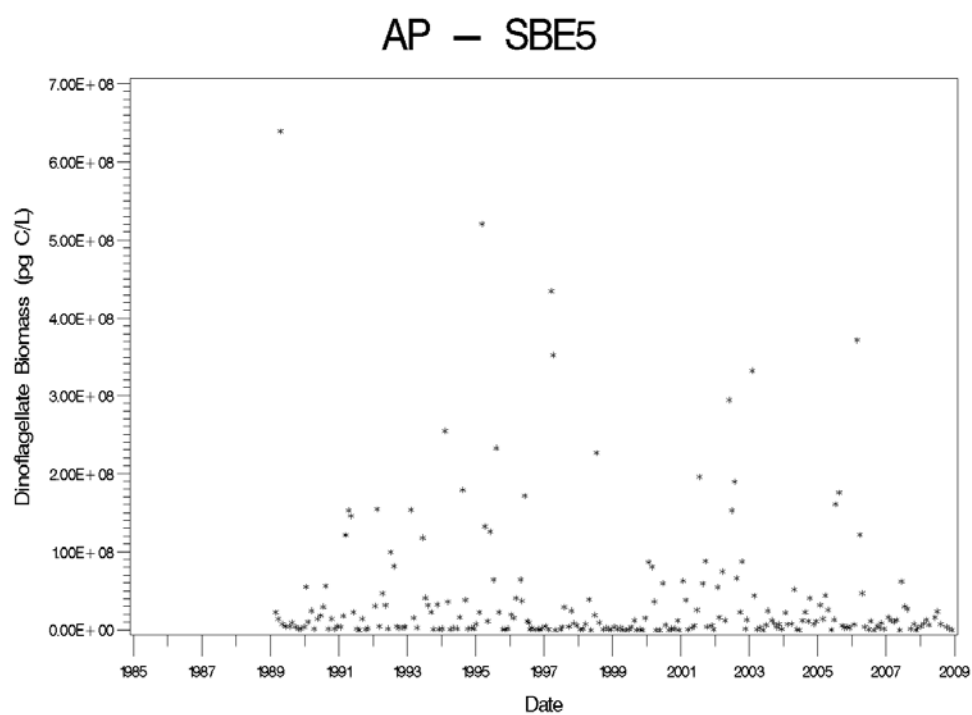


Figure 39. Plot of above pycnocline dinoflagellate biomass against time at station SBE5 for the period of 1985 through 2008.

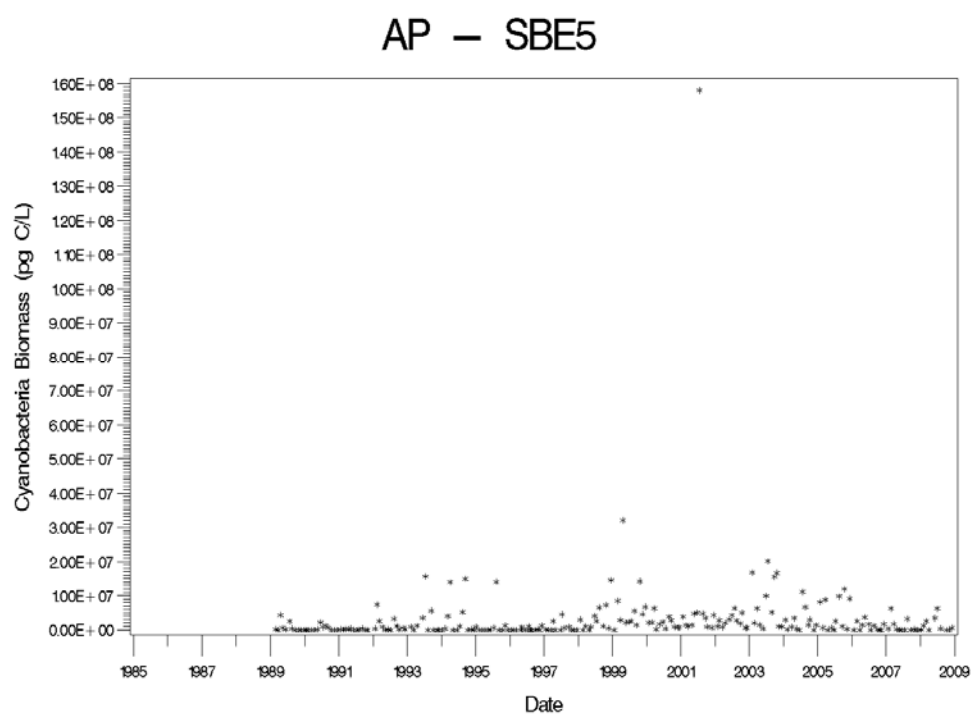


Figure 40. Plot of above pycnocline cyanobacteria biomass against time at station SBE5 for the period of 1985 through 2008.

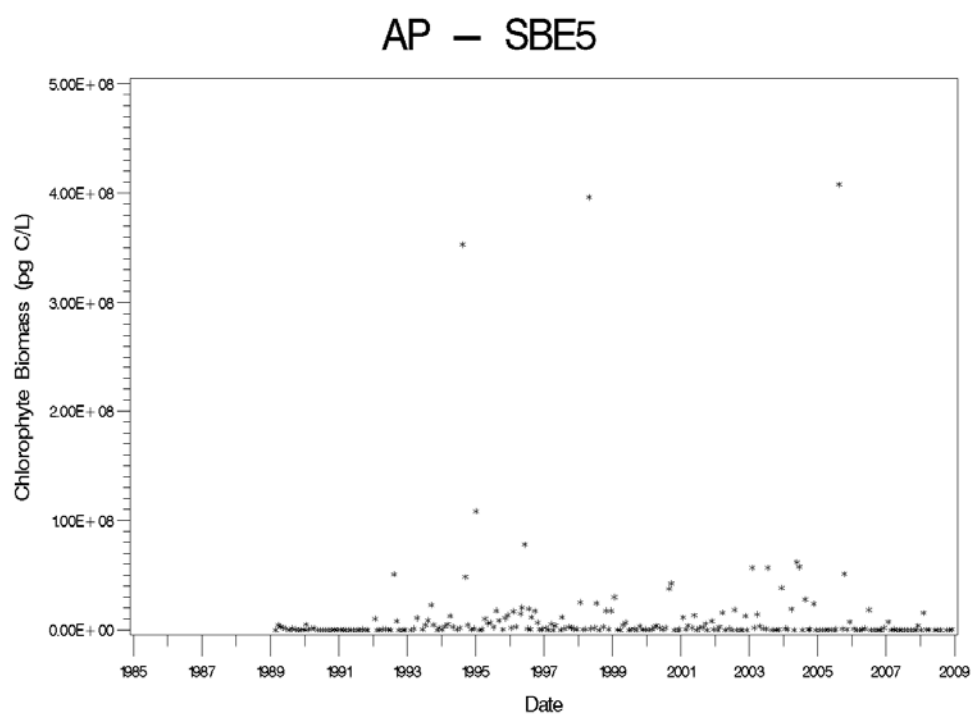


Figure 41. Plot of above pycnocline chlorophyte biomass against time at station SBE5 for the period of 1985 through 2008.

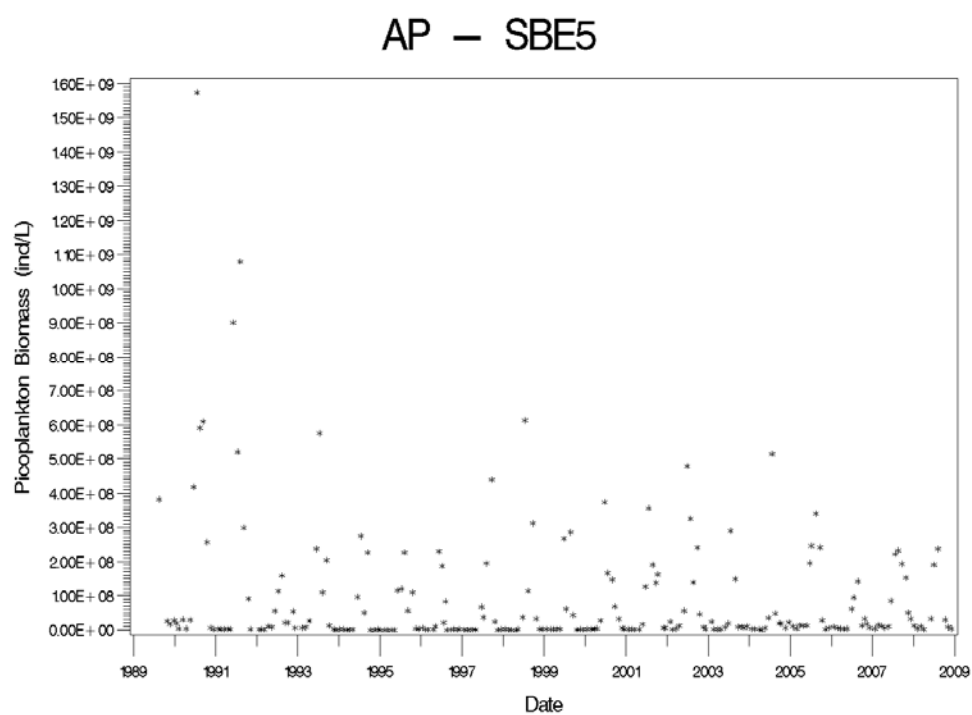


Figure 42. Plot of above pycnocline picoplankton biomass against time at station SBE5 for the period of 1985 through 2008.

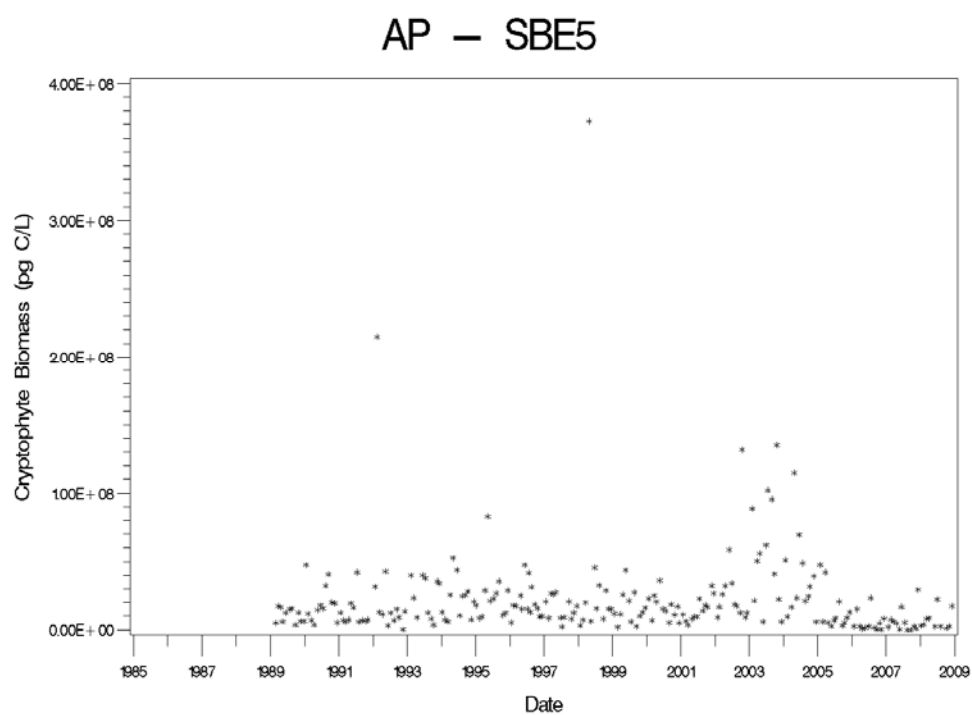


Figure 43. Plot of above pycnocline cryptophyte biomass at station SBE5 for the period of 1985 through 2008.

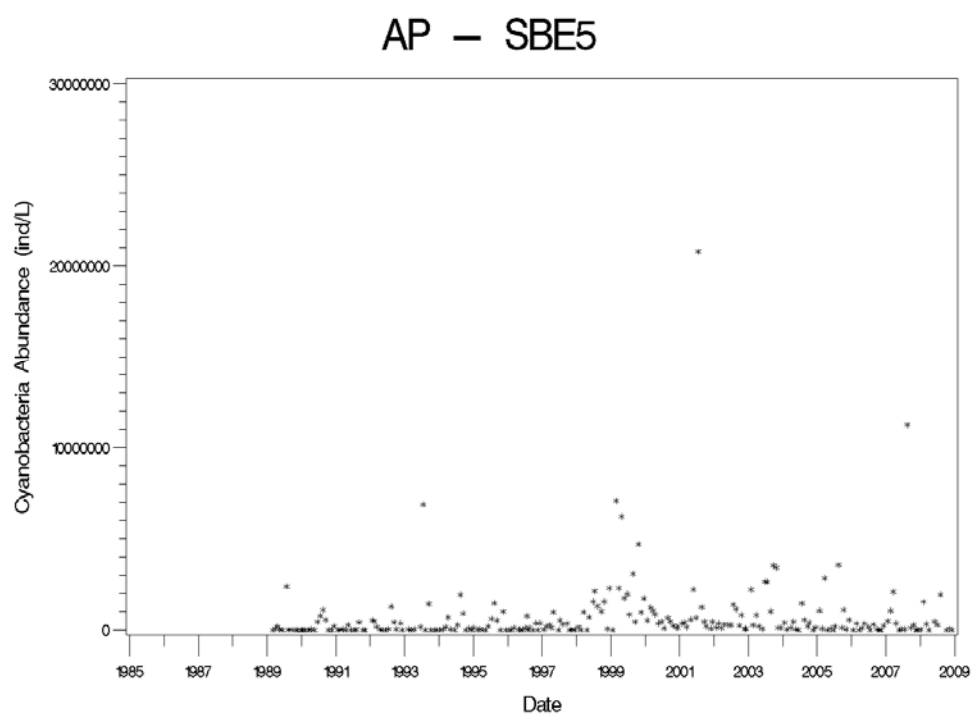


Figure 44. Plot of above pycnocline cyanophyte abundance at station SBE5 for the period of 1985 through 2008.

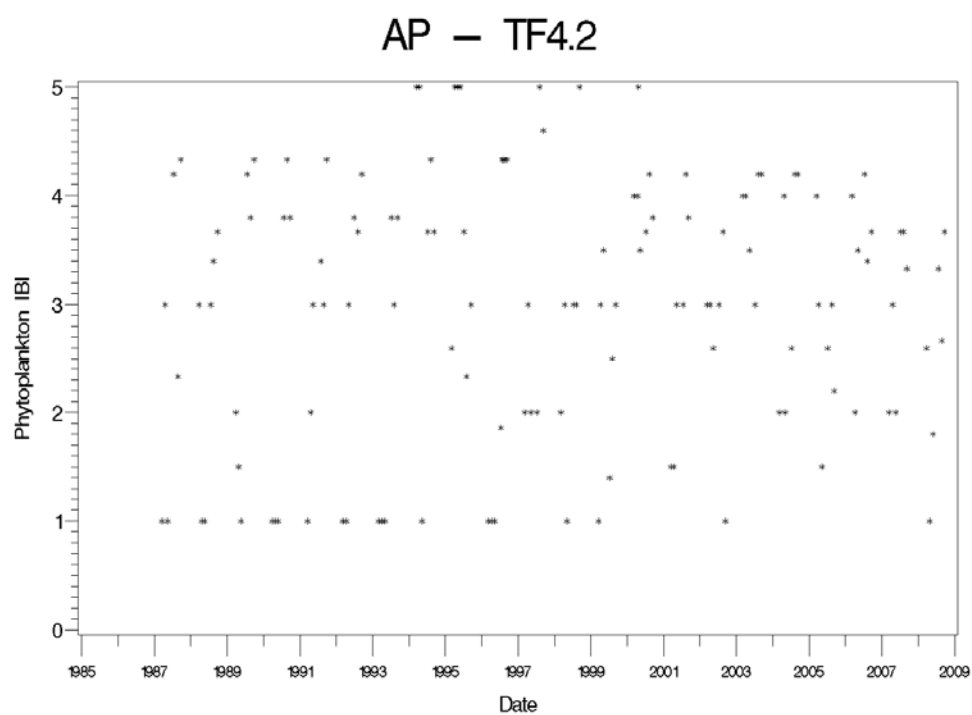


Figure 45. Plot of above pycnocline phytoplankton IBI scores against time at station TF4.2 for the period of 1985 through 2008.

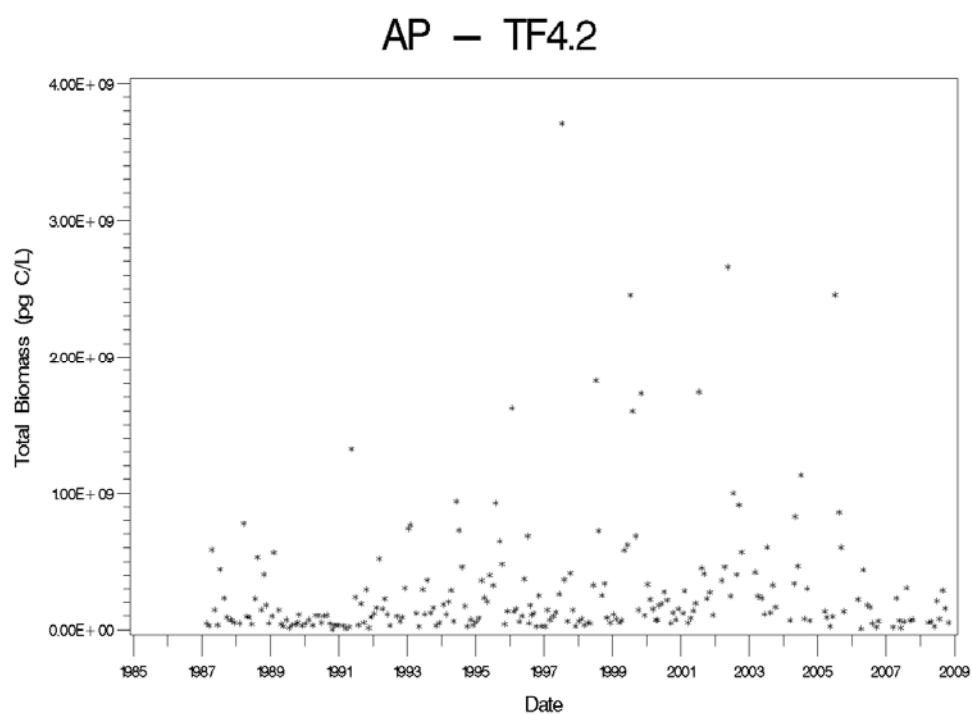


Figure 46. Plot of above pycnocline total phytoplankton biomass against time at station TF4.2 for the period of 1985 through 2008.

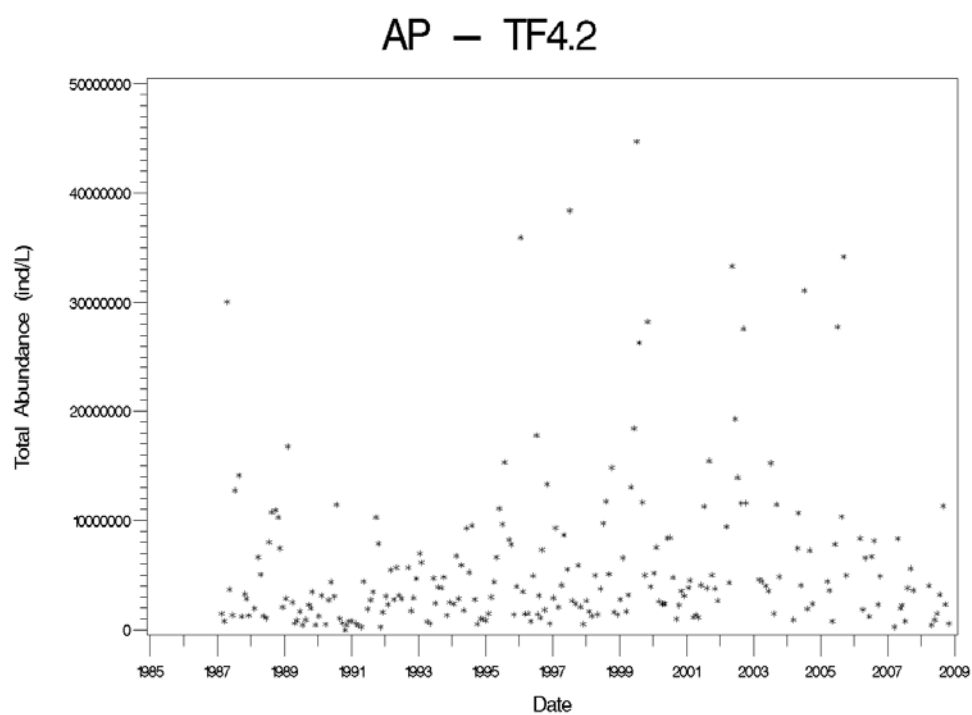


Figure 47. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF4.2 for the period of 1985 through 2008.

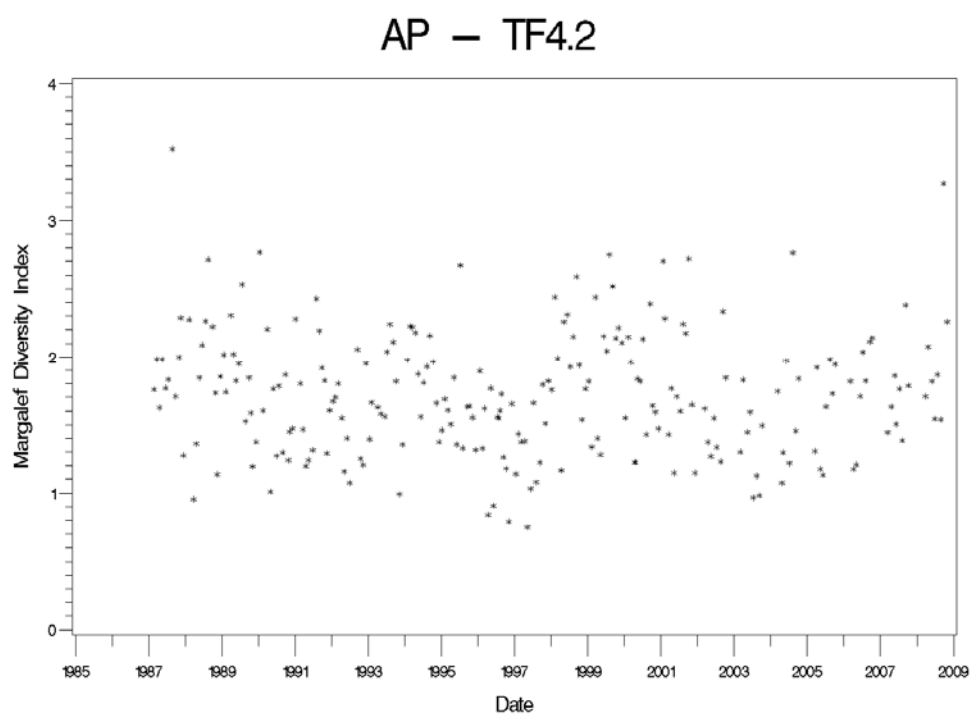


Figure 48. Plot of above pycnocline Margalef diversity index against time at station TF4.2 for the period of 1985 through 2008.

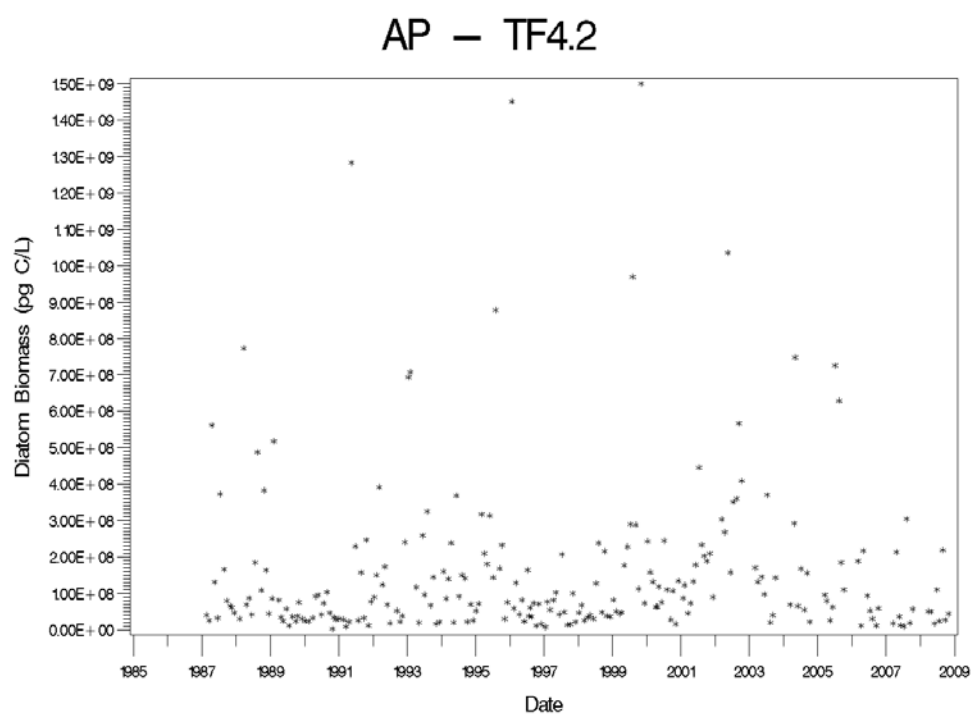


Figure 49. Plot of above pycnocline diatom biomass against time at station TF4.2 for the period of 1985 through 2008.

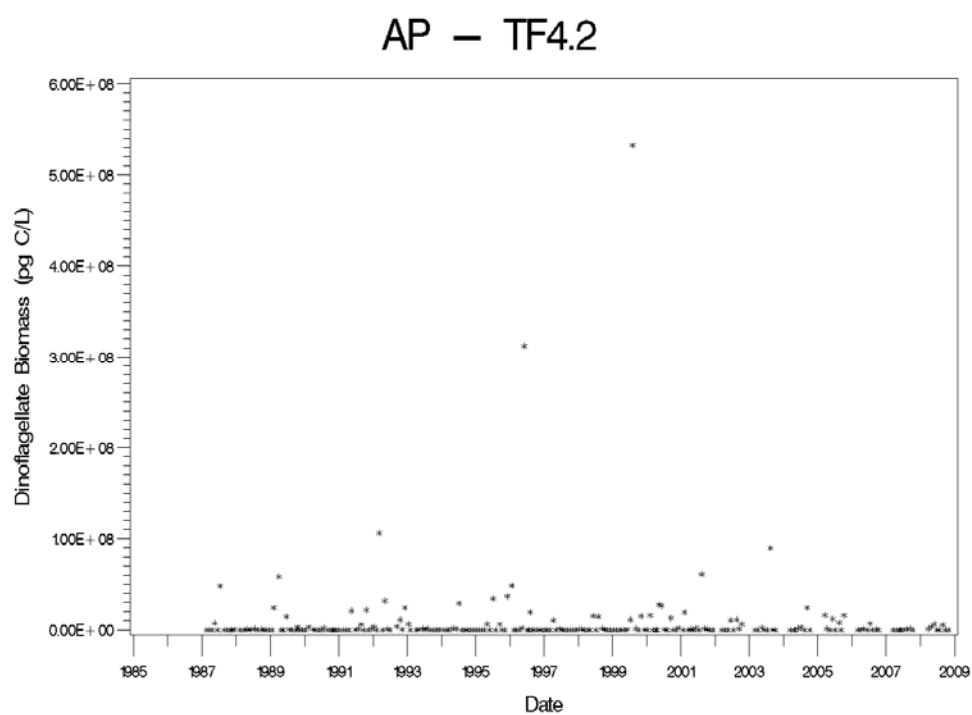


Figure 50. Plot of above pycnocline dinoflagellate biomass against time at station TF4.2 for the period of 1985 through 2008.

AP – TF4.2

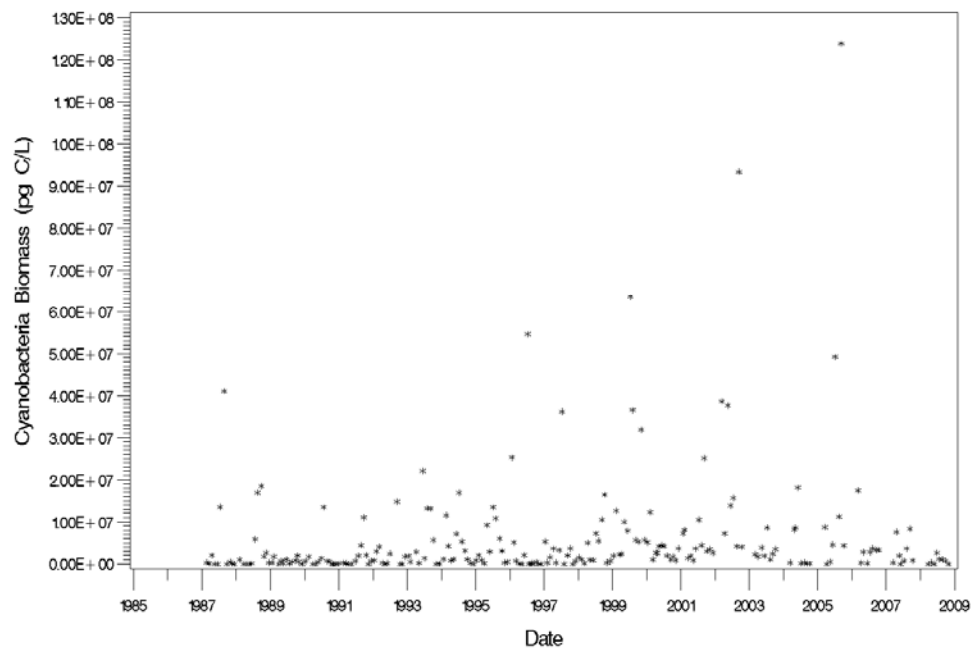


Figure 51. Plot of above pycnocline cyanobacteria biomass against time at station TF4.2 for the period of 1985 through 2008.

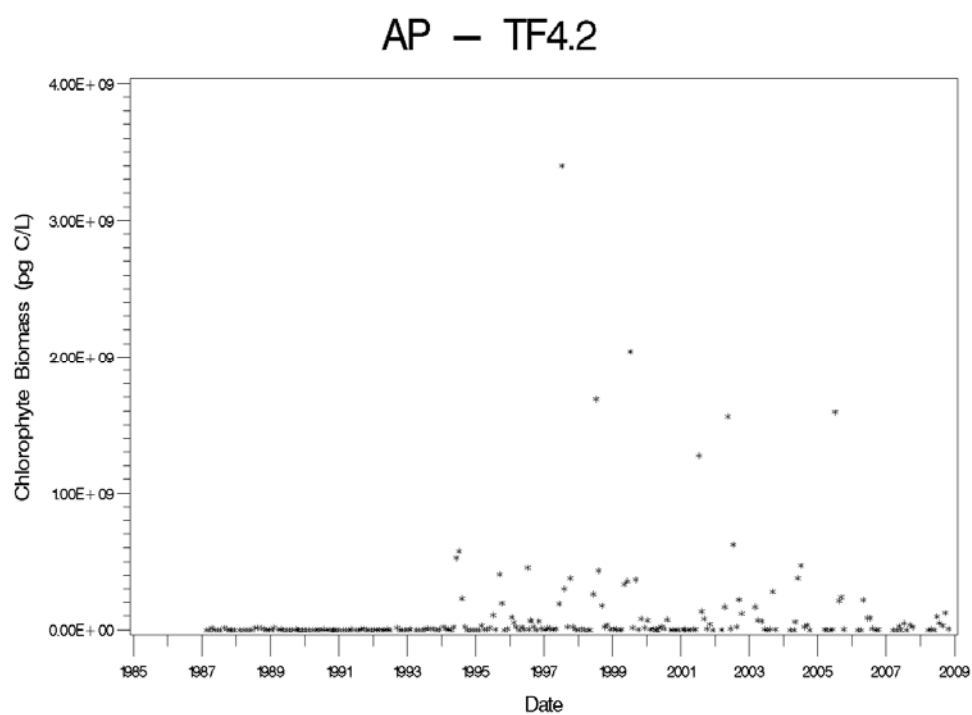


Figure 52. Plot of above pycnocline chlorophyte biomass against time at station TF4.2 for the period of 1985 through 2008.

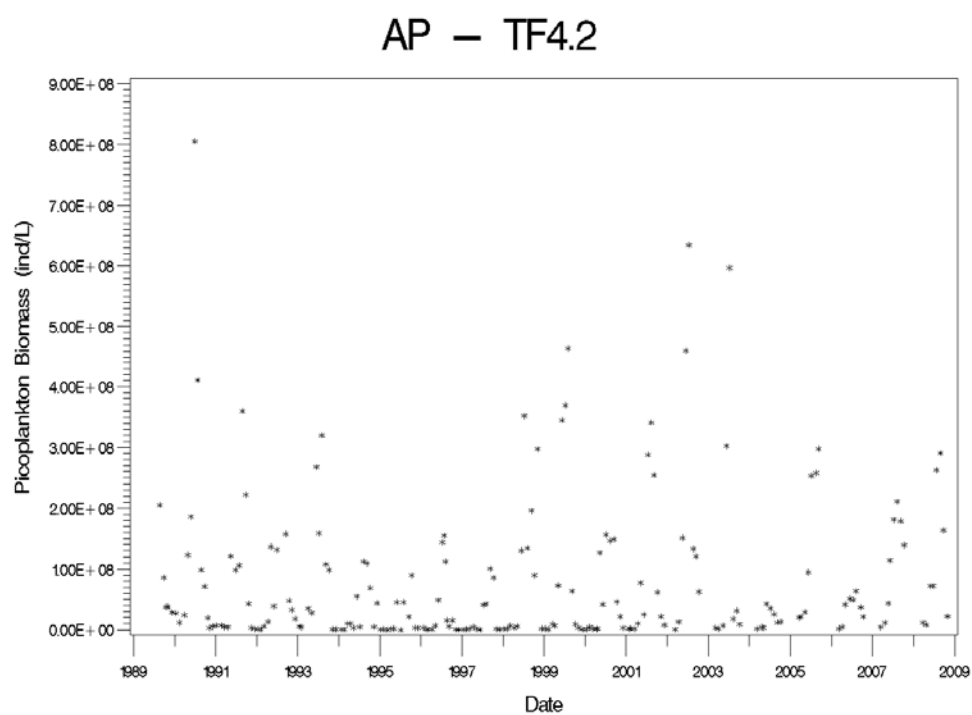


Figure 53. Plot of above pycnocline picoplankton biomass against time at station TF4.2 for the period of 1985 through 2008.

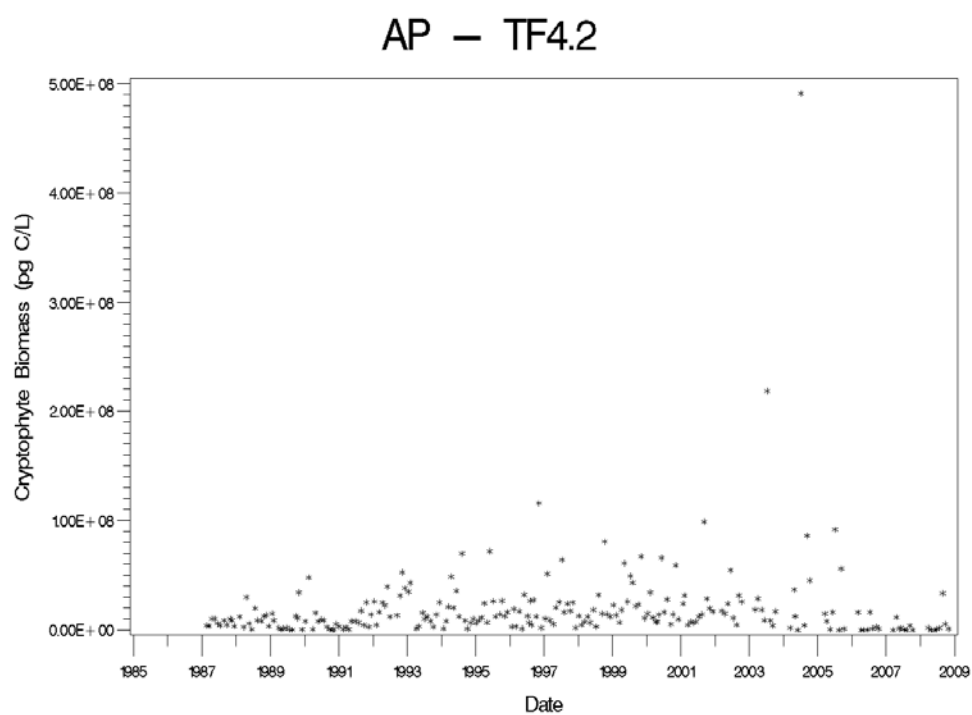


Figure 54. Plot of above pycnocline cryptophyte biomass at station TF4.2 for the period of 1985 through 2008.

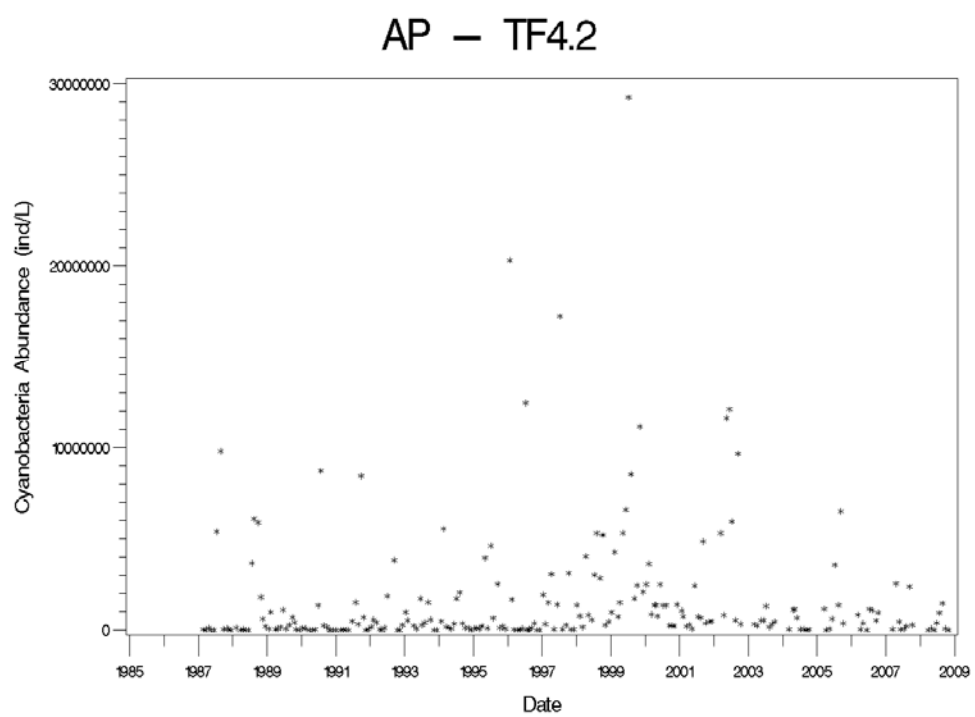


Figure 55. Plot of above pycnocline cyanophyte abundance at station TF4.2 for the period of 1985 through 2008.

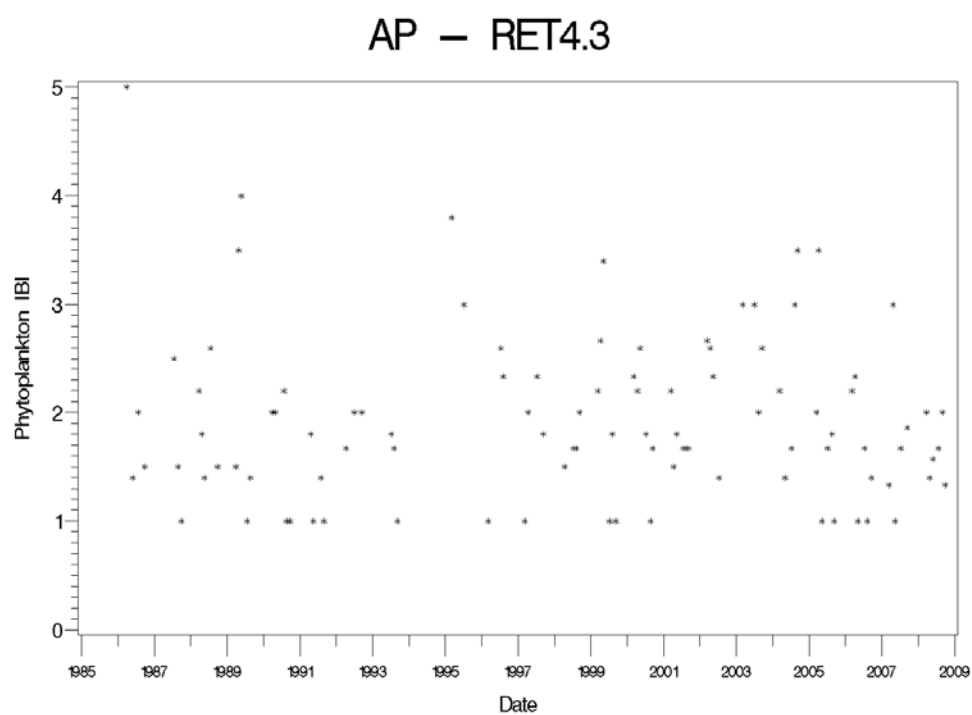


Figure 56. Plot of above pycnocline phytoplankton IBI scores against time at station RET4.3 for the period of 1985 through 2008.

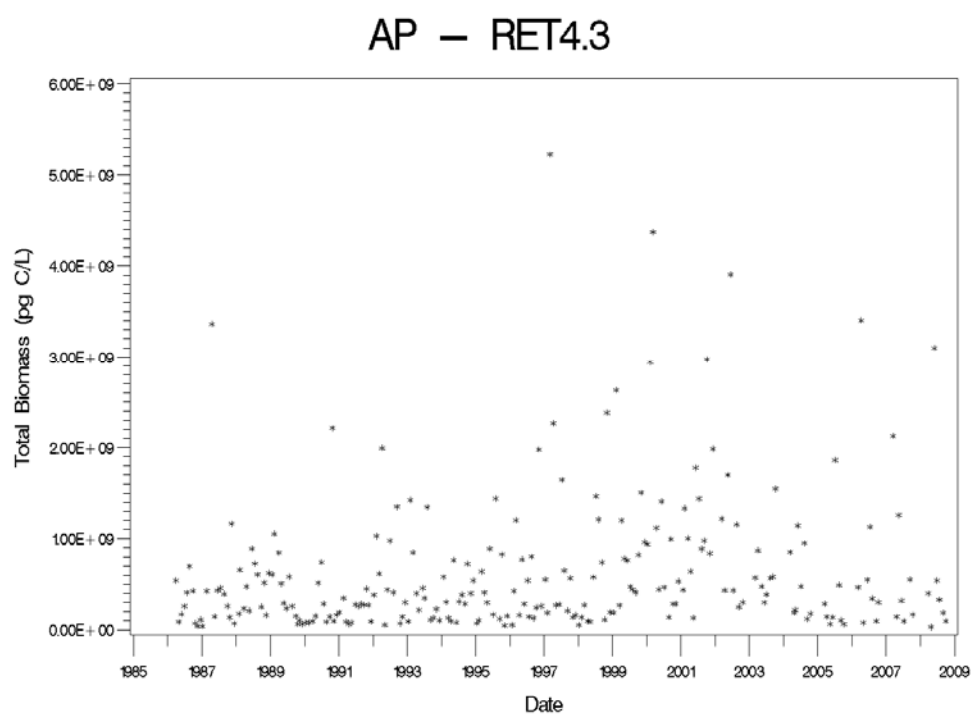


Figure 57. Plot of above pycnocline total phytoplankton biomass against time at station RET4.3 for the period of 1985 through 2008.

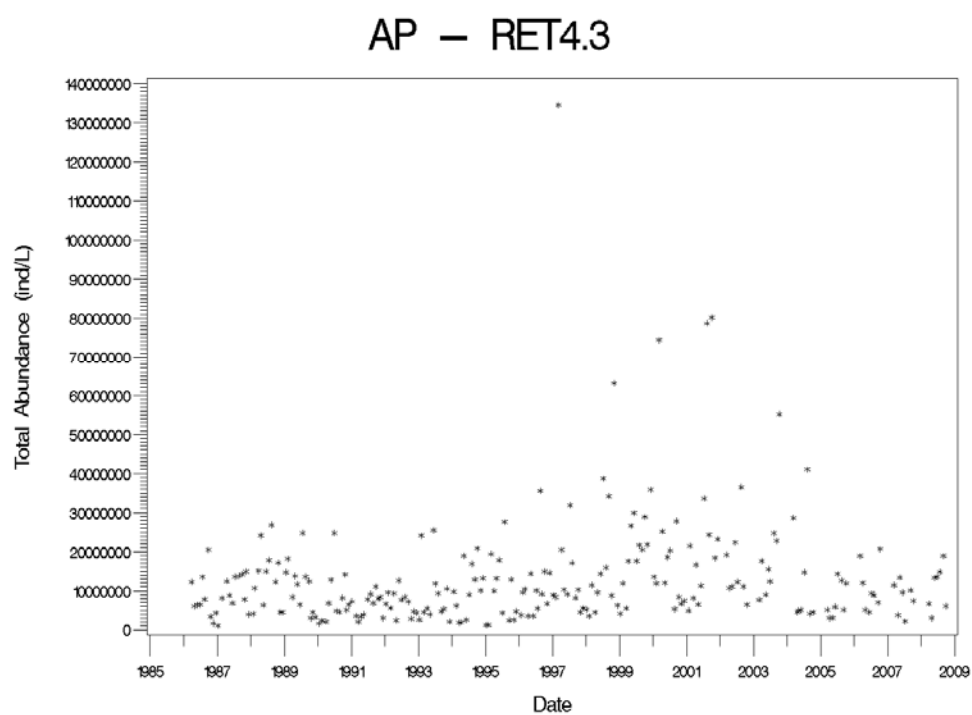


Figure 58. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET4.3 for the period of 1985 through 2008.

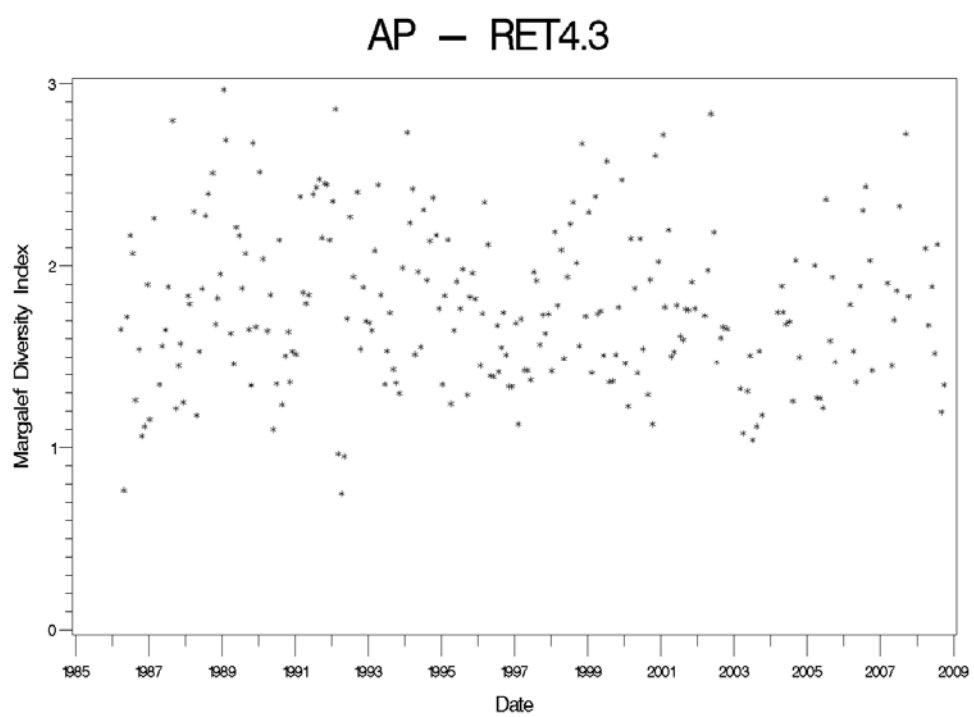


Figure 59. Plot of above pycnocline Margalef diversity index against time at station RET4.3 for the period of 1985 through 2008.

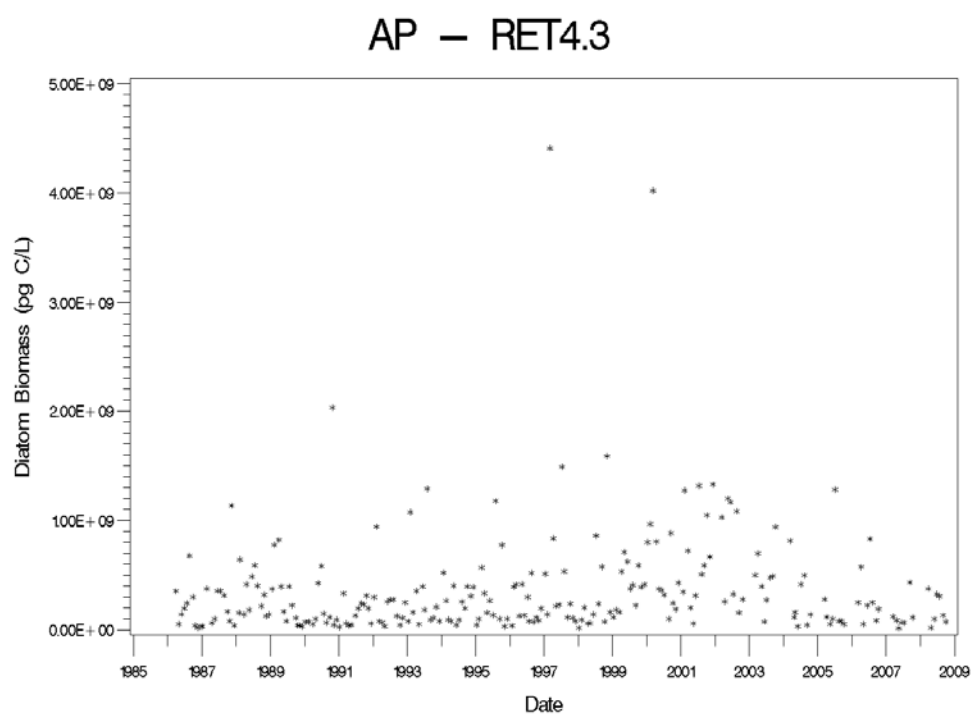


Figure 60. Plot of above pycnocline diatom biomass against time at station RET4.3 for the period of 1985 through 2008.

AP – RET4.3

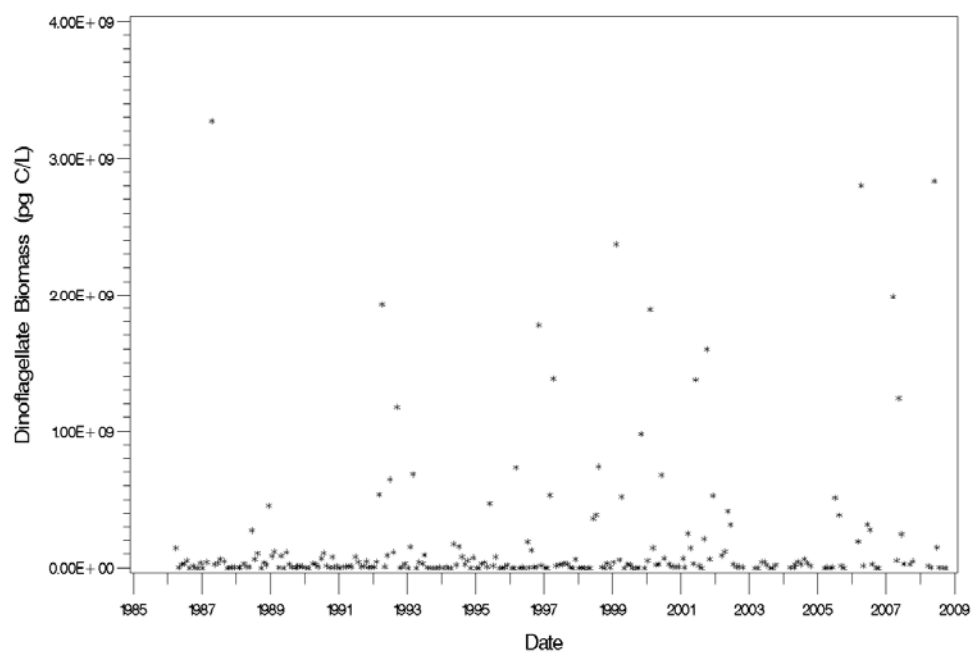


Figure 61. Plot of above pycnocline dinoflagellate biomass against time at station RET4.3 for the period of 1985 through 2008.

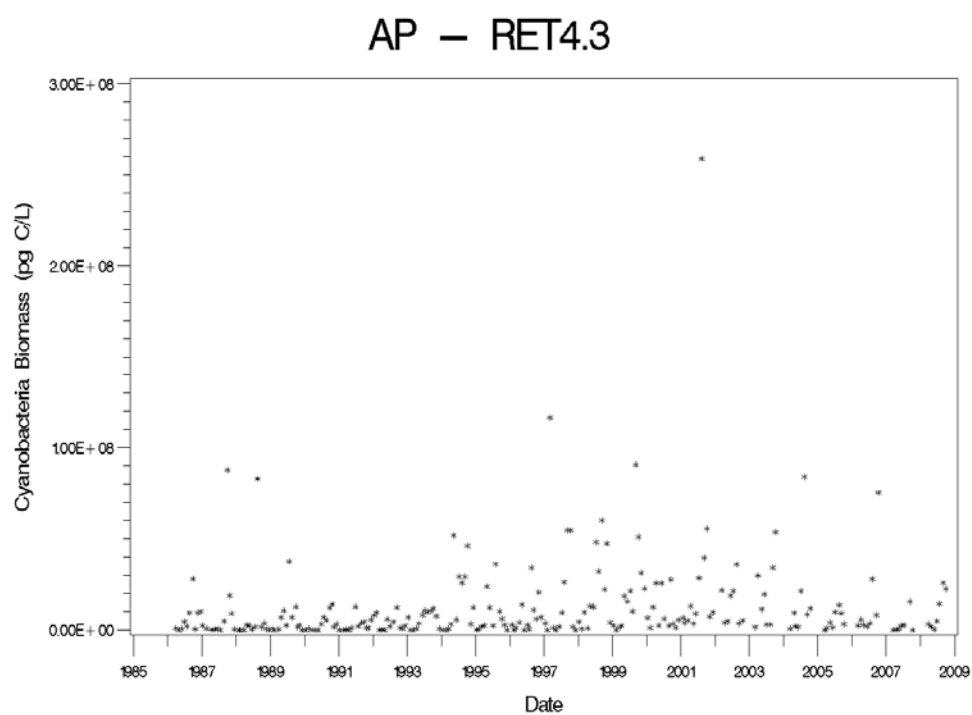


Figure 62. Plot of above pycnocline cyanobacteria biomass against time at station RET4.3 for the period of 1985 through 2008.

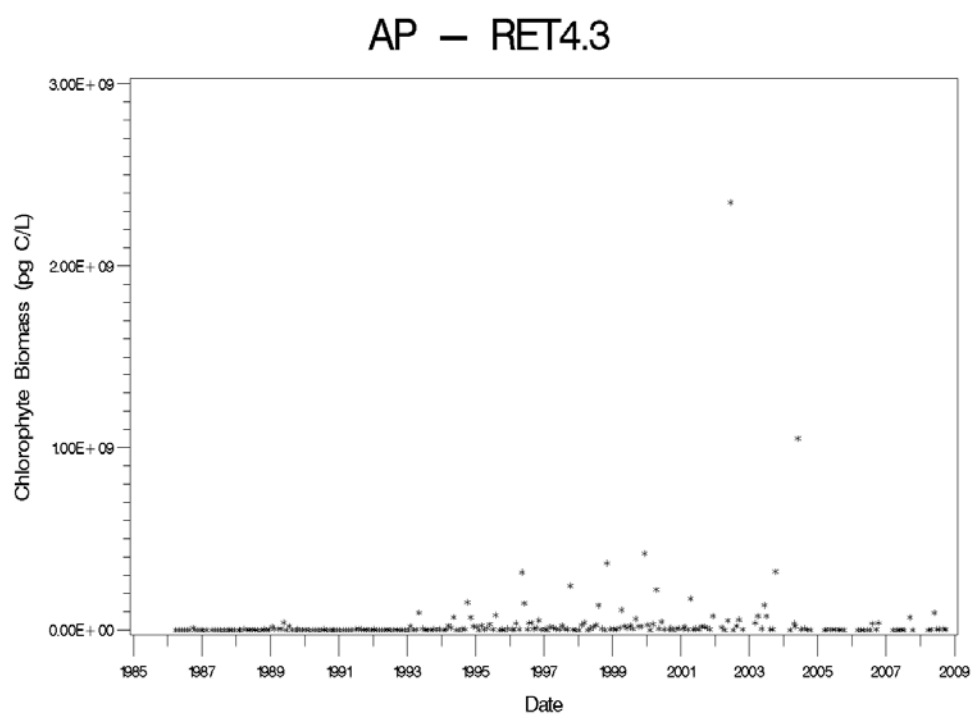


Figure 63. Plot of above pycnocline chlorophyte biomass against time at station RET4.3 for the period of 1985 through 2008.

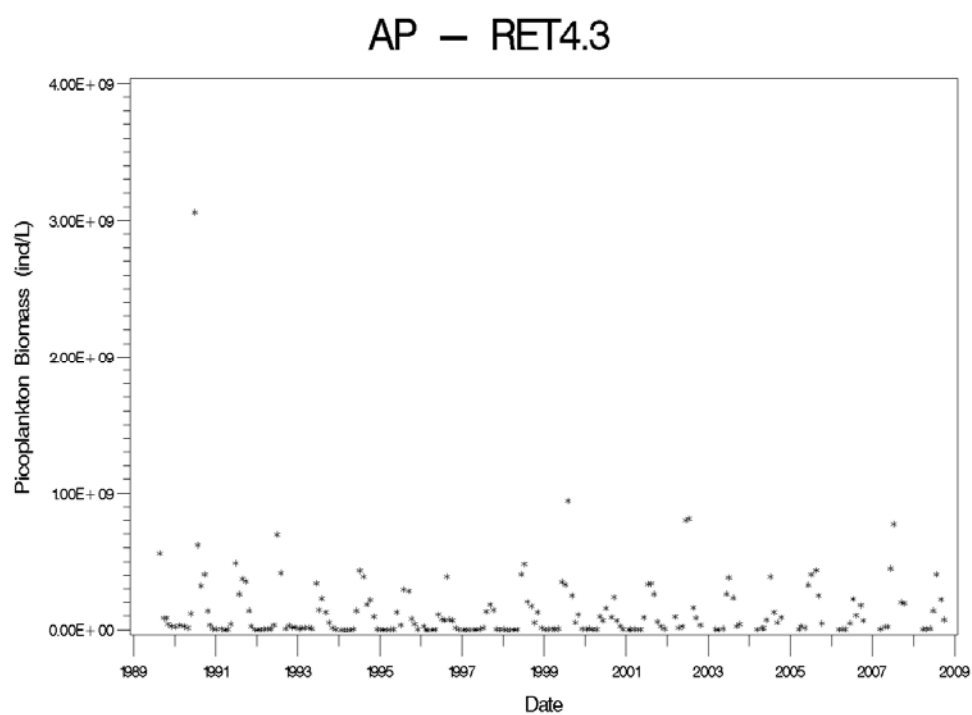


Figure 64. Plot of above pycnocline picoplankton biomass against time at station RET4.3 for the period of 1985 through 2008.

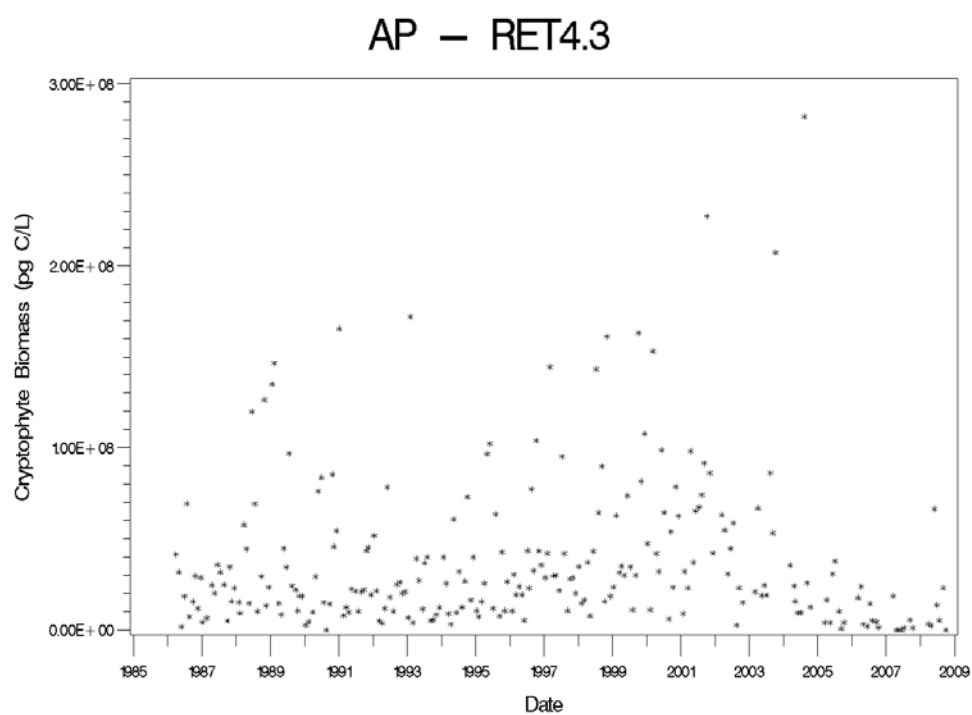


Figure 65. Plot of above pycnocline cryptophyte biomass at station RET4.3 for the period of 1985 through 2008.

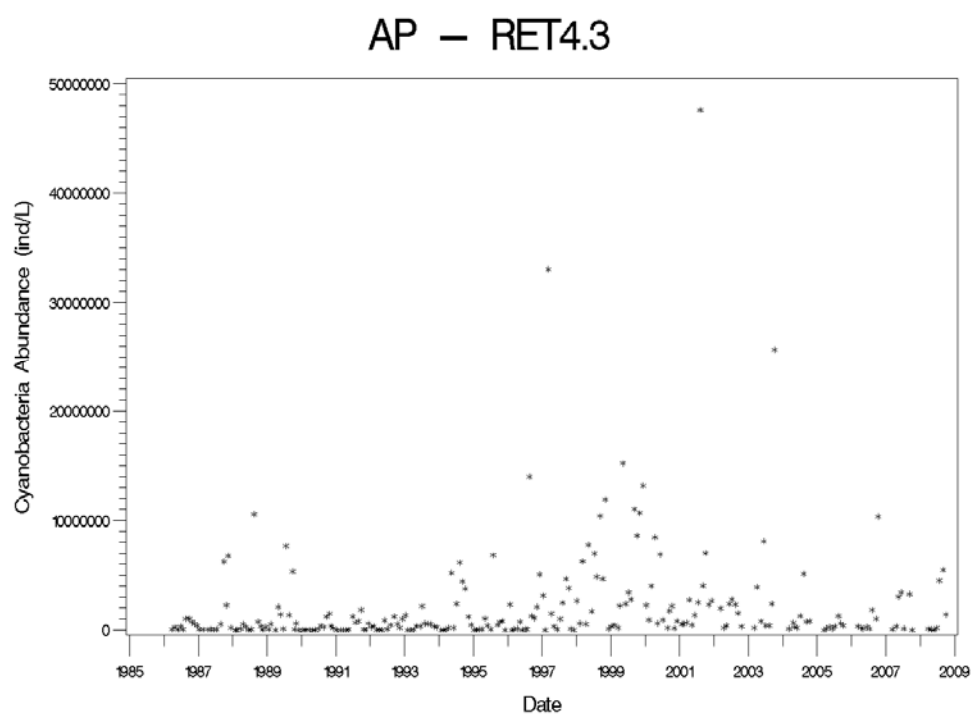


Figure 66. Plot of above pycnocline cyanophyte abundance at station RET4.3 for the period of 1985 through 2008.

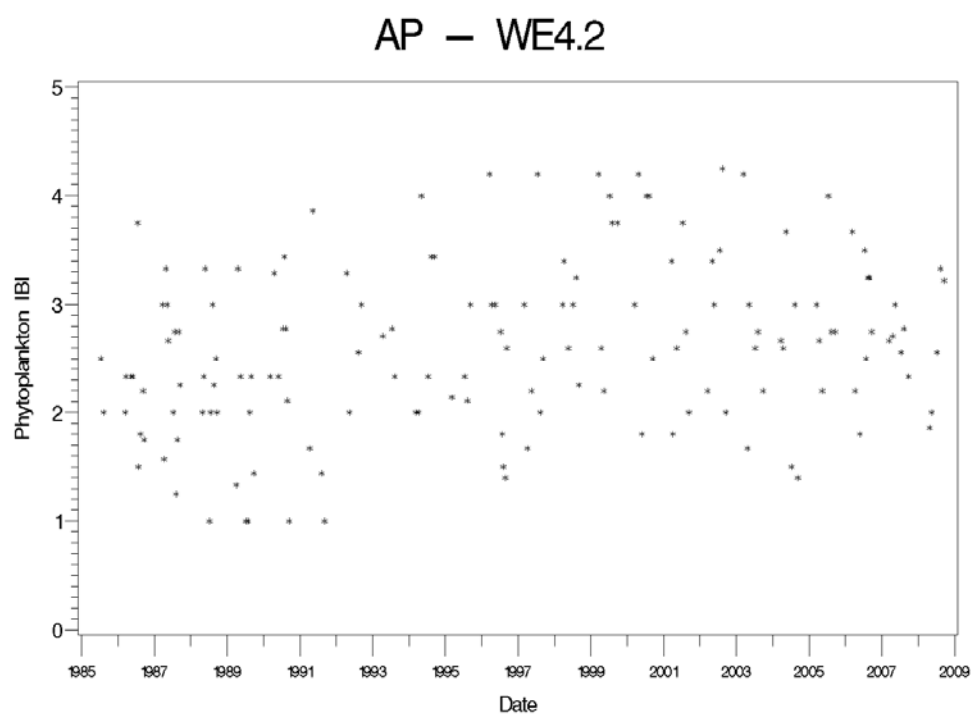


Figure 67. Plot of above pycnocline phytoplankton IBI scores against time at station WE4.2 for the period of 1985 through 2008.

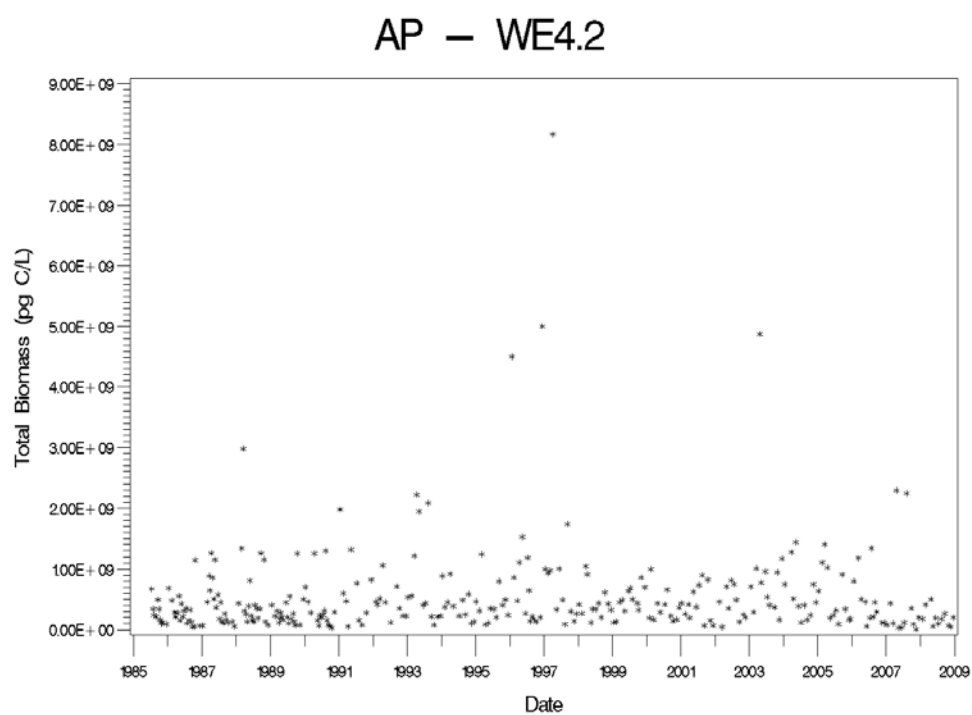


Figure 68. Plot of above pycnocline total phytoplankton biomass against time at station WE4.2 for the period of 1985 through 2008.

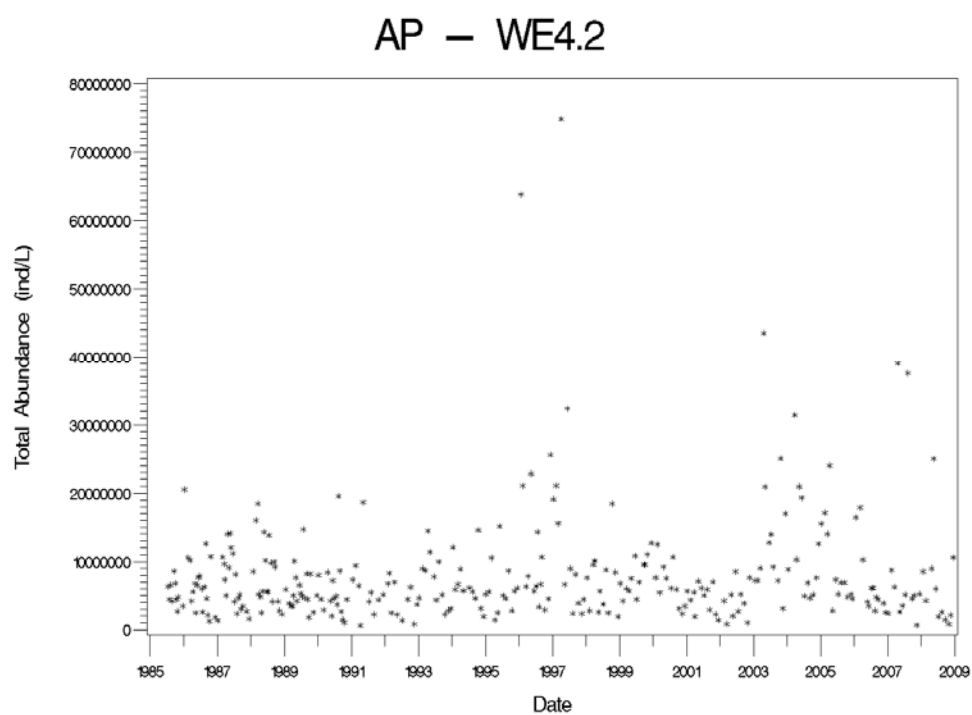


Figure 69. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station WE4.2 for the period of 1985 through 2008.

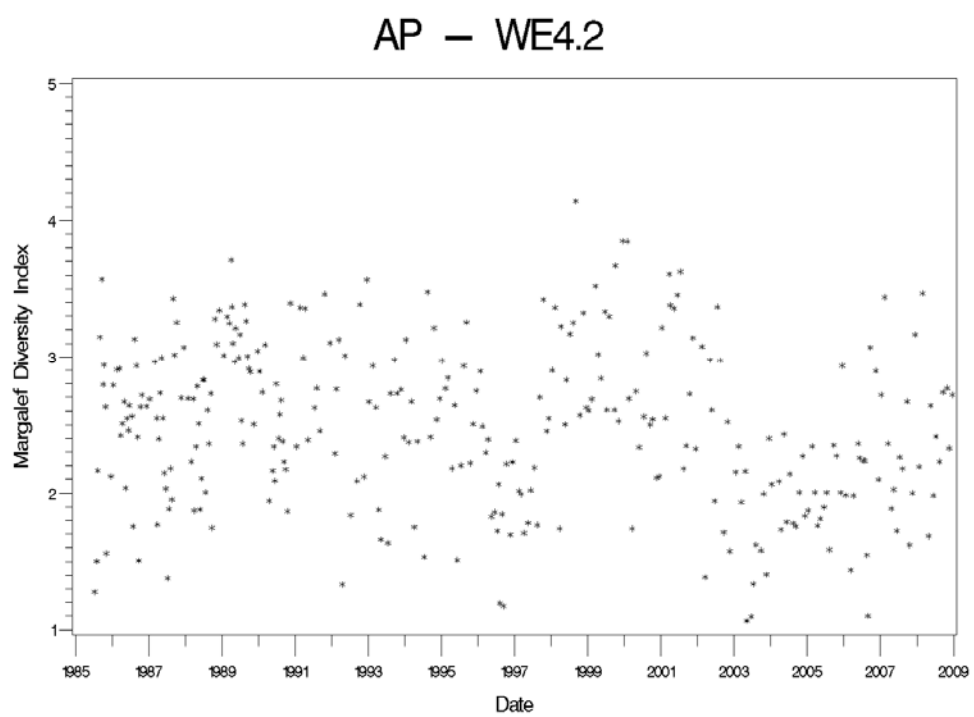


Figure 70. Plot of above pycnocline Margalef diversity index against time at station WE4.2 for the period of 1985 through 2008.

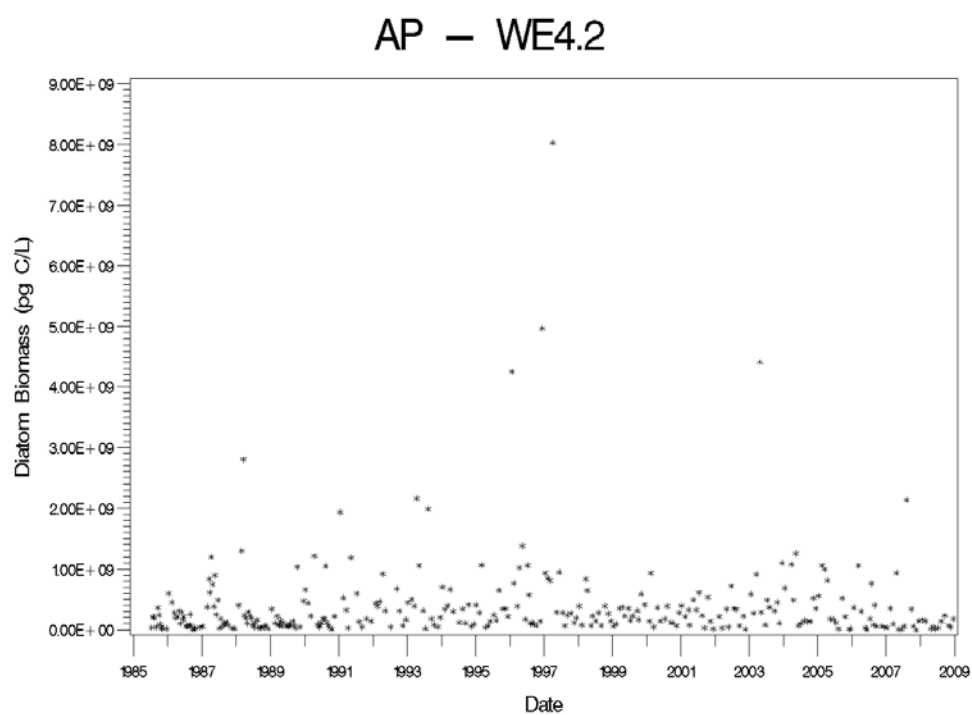


Figure 71. Plot of above pycnocline diatom biomass against time at station WE4.2 for the period of 1985 through 2008.

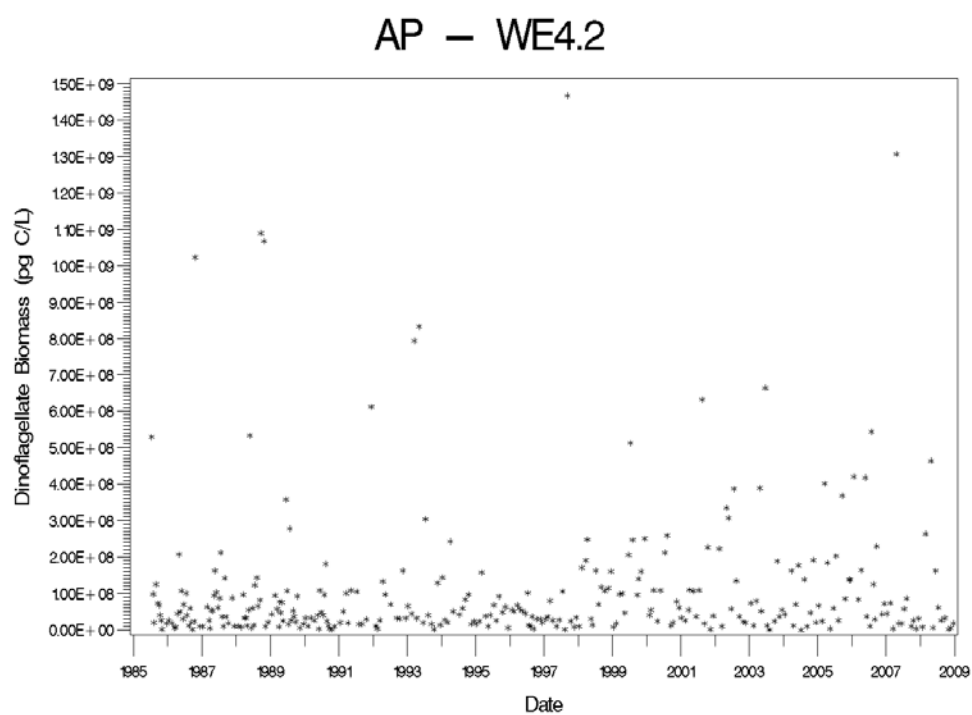


Figure 72. Plot of above pycnocline dinoflagellate biomass against time at station WE4.2 for the period of 1985 through 2008.

AP – WE4.2

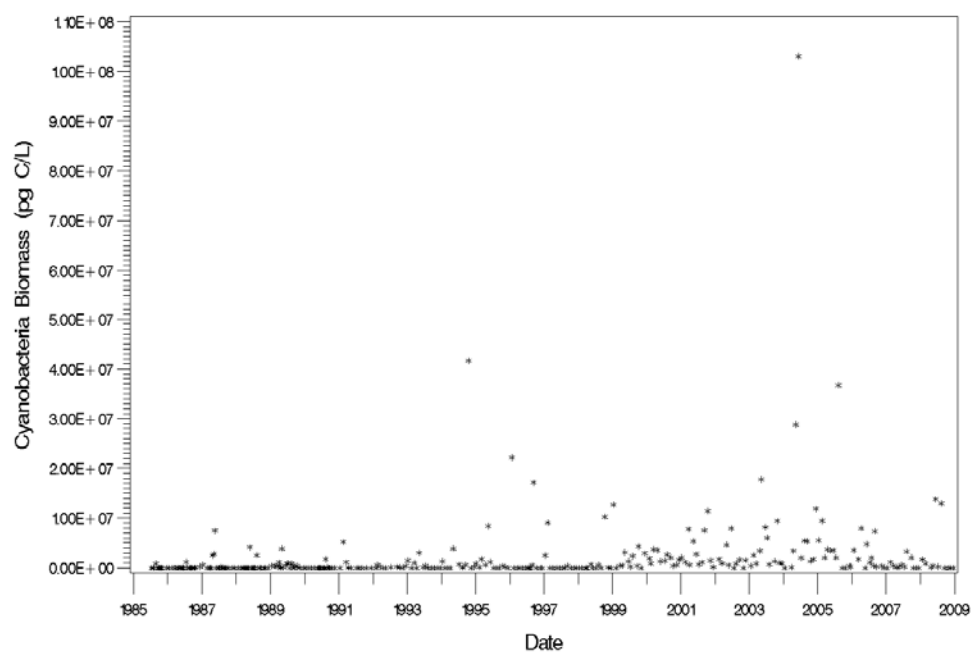


Figure 73. Plot of above pycnocline cyanobacteria biomass against time at station WE4.2 for the period of 1985 through 2008.

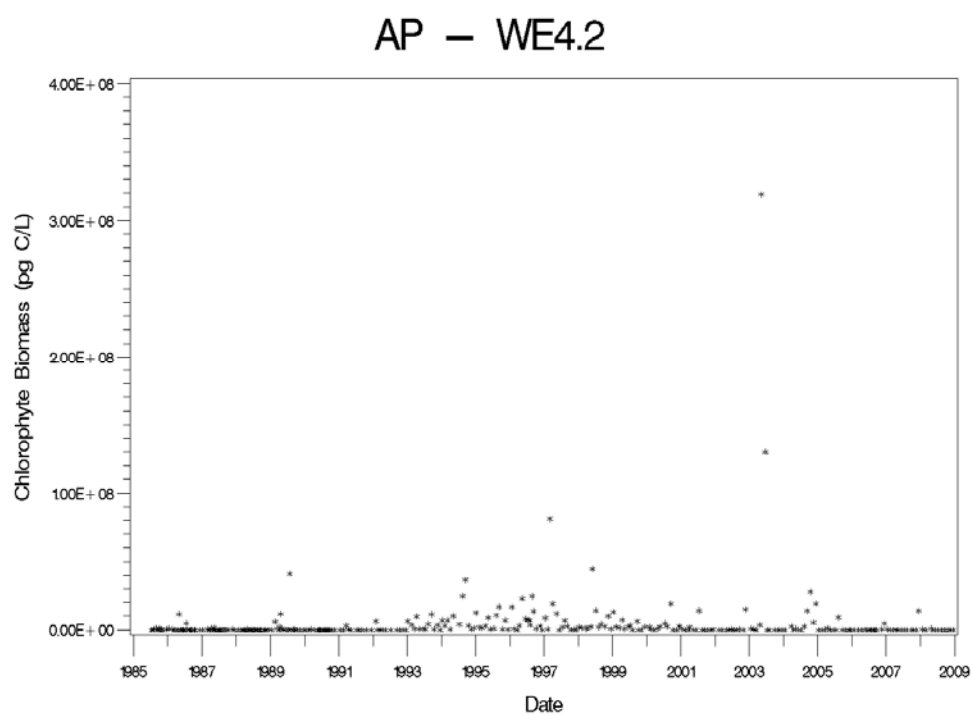


Figure 74. Plot of above pycnocline chlorophyte biomass against time at station WE4.2 for the period of 1985 through 2008.

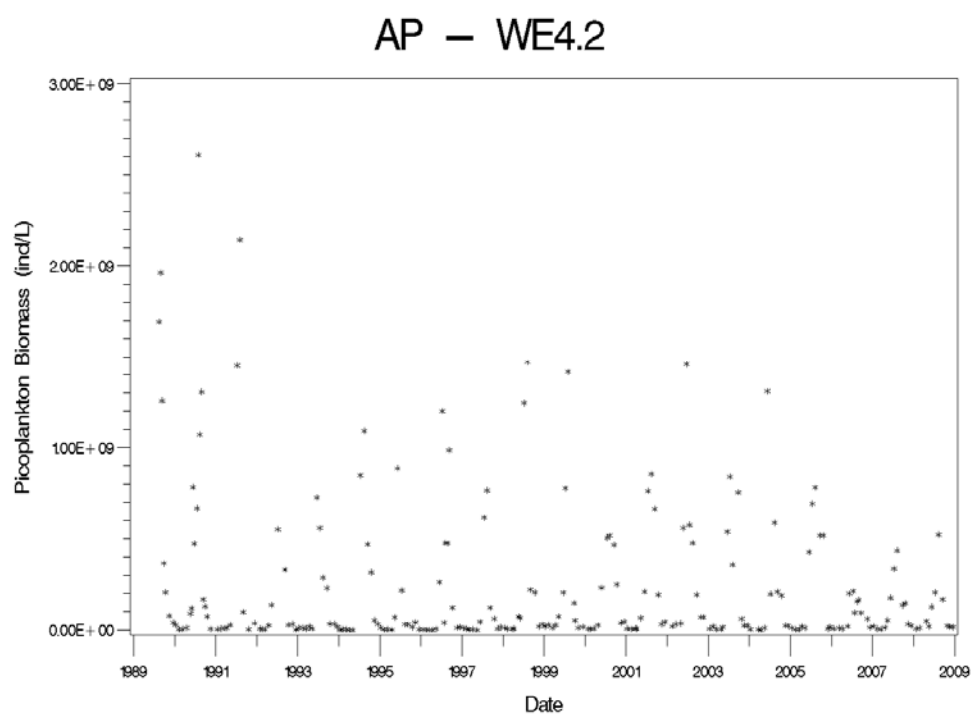


Figure 75. Plot of above pycnocline picoplankton biomass against time at station WE4.2 for the period of 1985 through 2008.

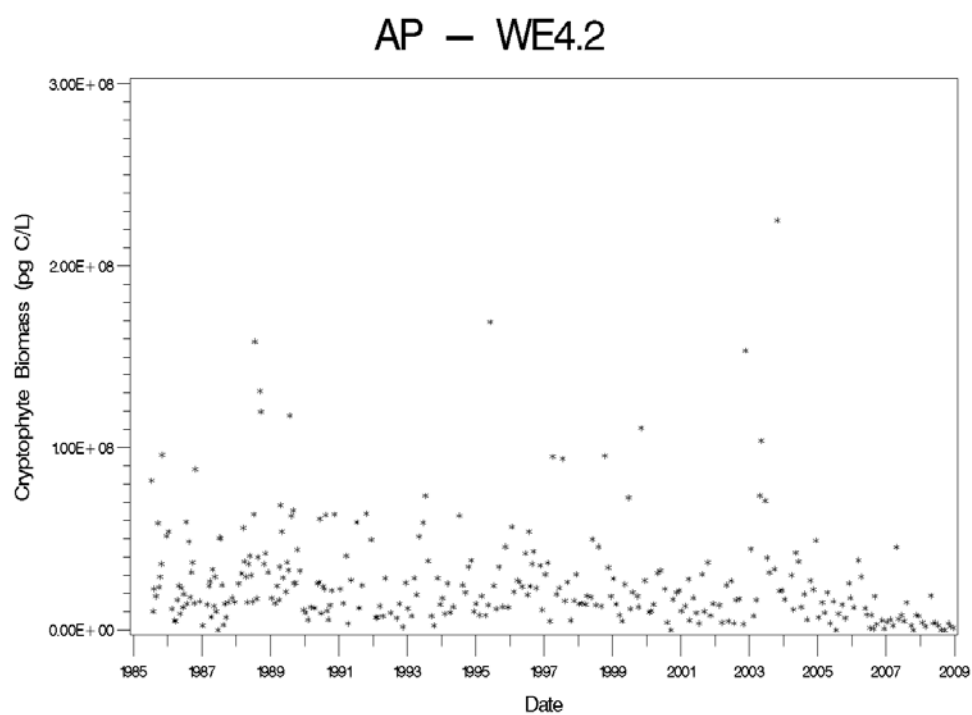


Figure 76. Plot of above pycnocline cryptophyte biomass at station WE4.2 for the period of 1985 through 2008.

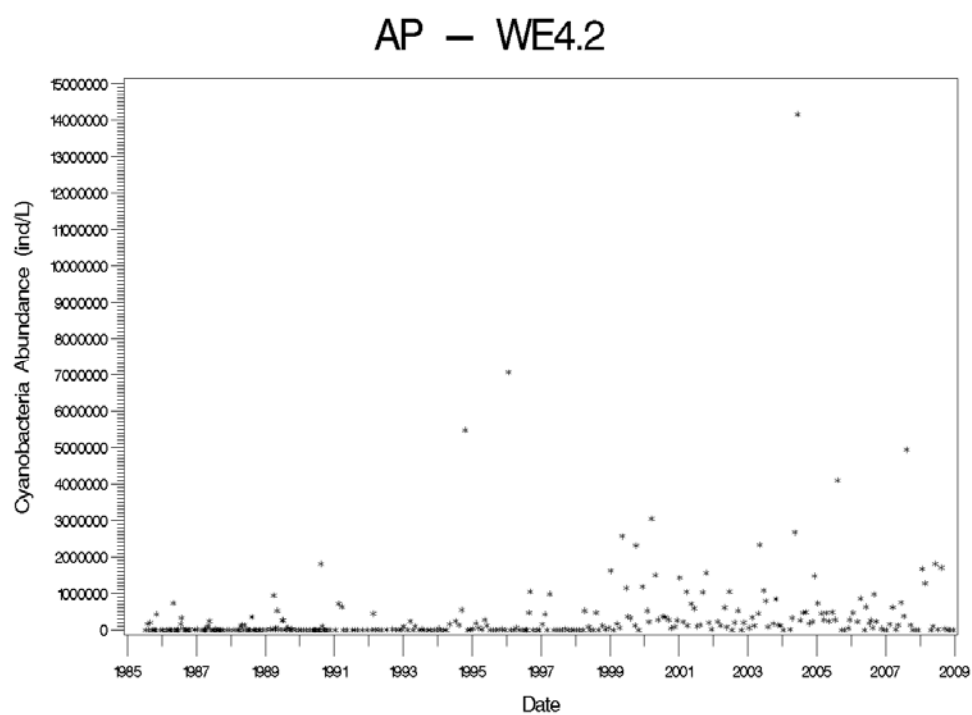


Figure 77. Plot of above pycnocline cyanophyte abundance at station WE4.2 for the period of 1985 through 2008.

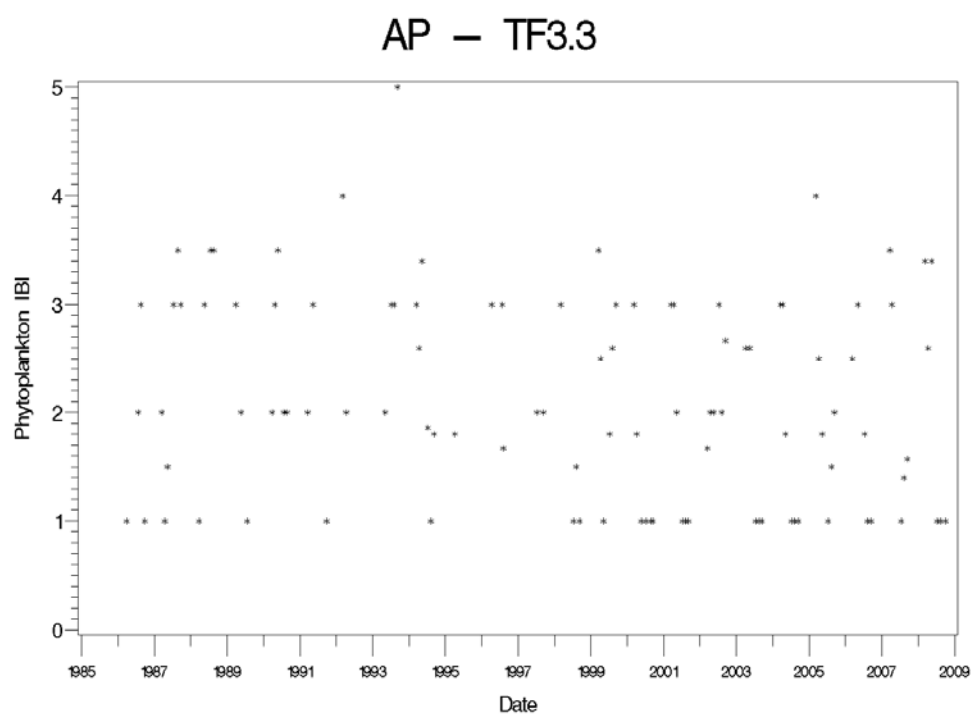


Figure 78. Plot of above pycnocline phytoplankton IBI scores against time at station TF3.3 for the period of 1985 through 2008.

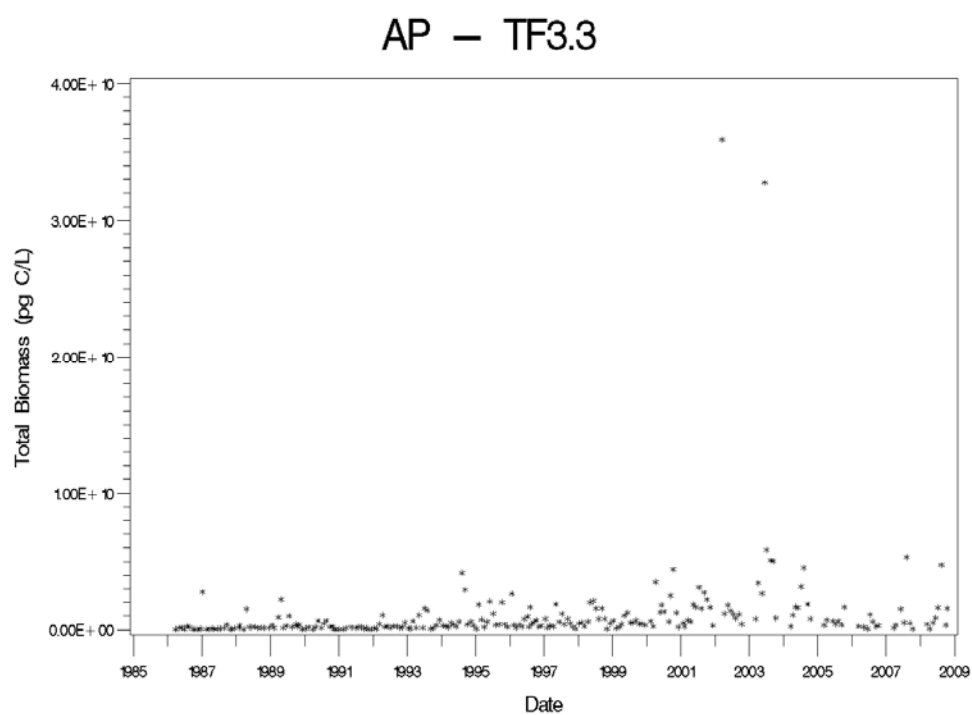


Figure 79. Plot of above pycnocline total phytoplankton biomass against time at station TF3.3 for the period of 1985 through 2008.

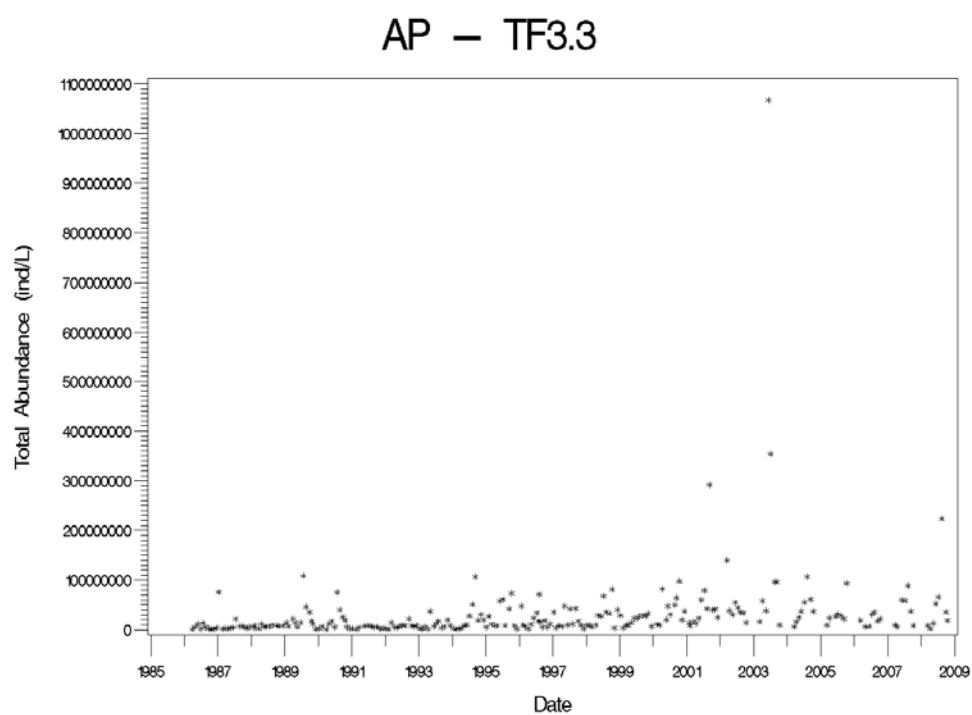


Figure 80. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF3.3 for the period of 1985 through 2008.

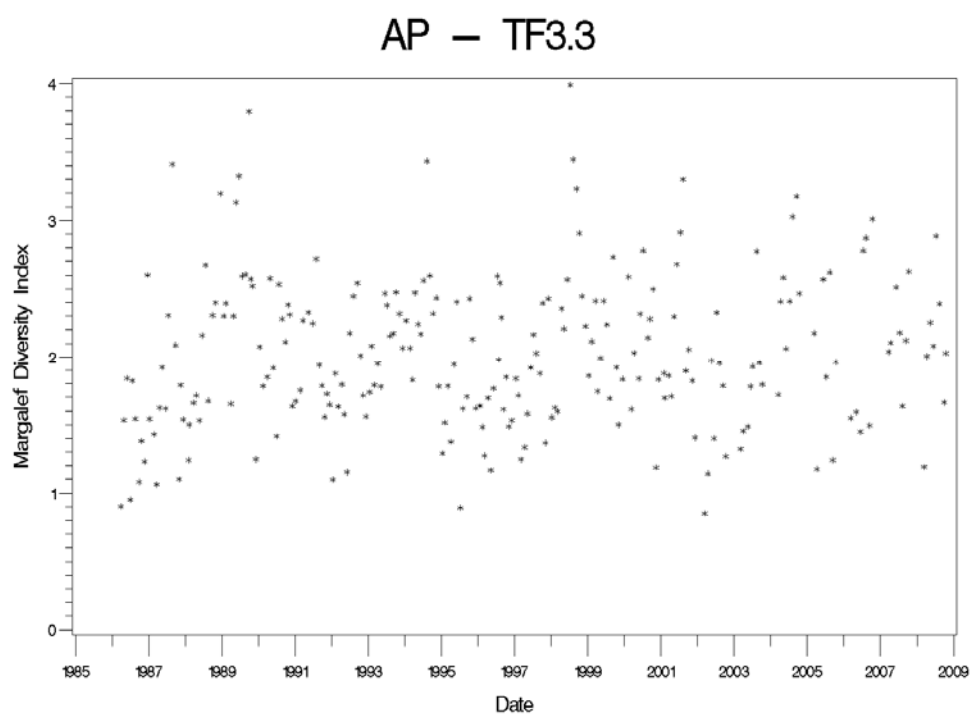


Figure 81. Plot of above pycnocline Margalef diversity index against time at station TF3.3 for the period of 1985 through 2008.

AP – TF3.3

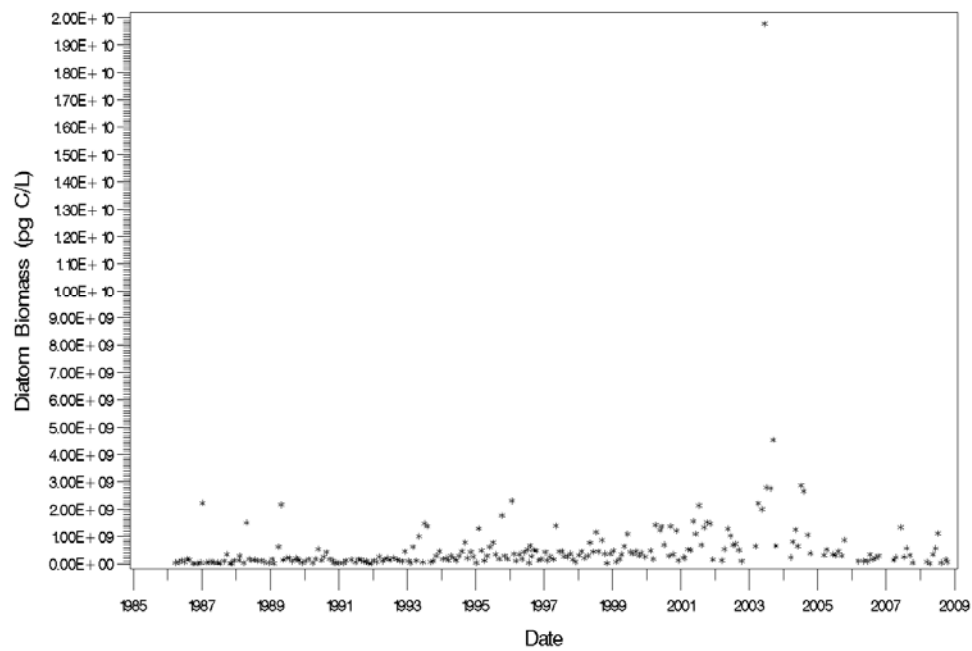


Figure 82. Plot of above pycnocline diatom biomass against time at station TF3.3 for the period of 1985 through 2008.

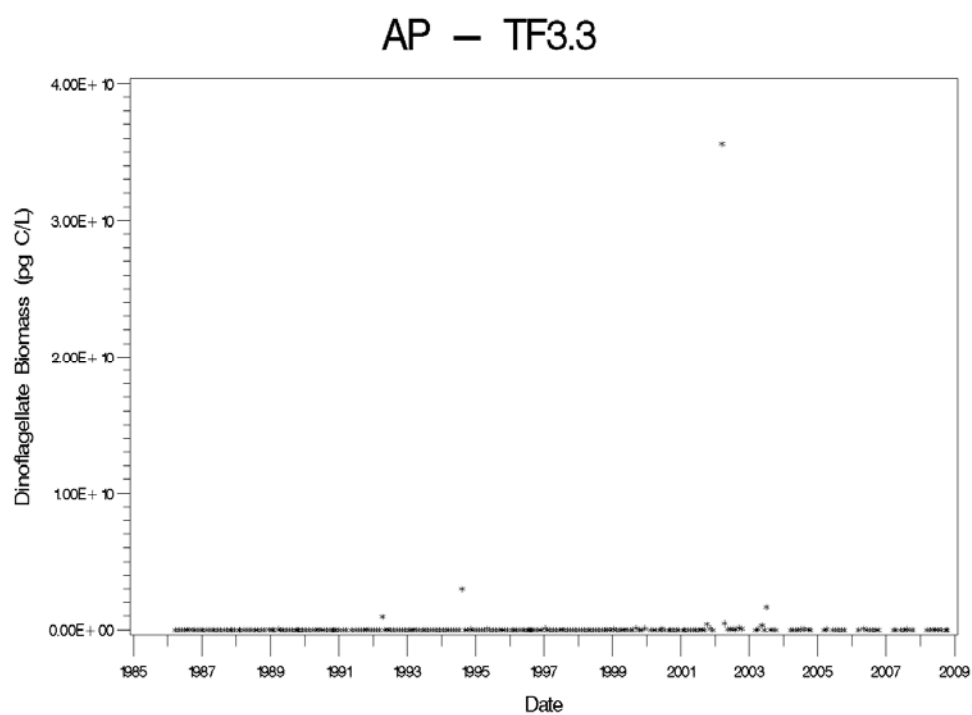


Figure 83. Plot of above pycnocline dinoflagellate biomass against time at station TF3.3 for the period of 1985 through 2008.

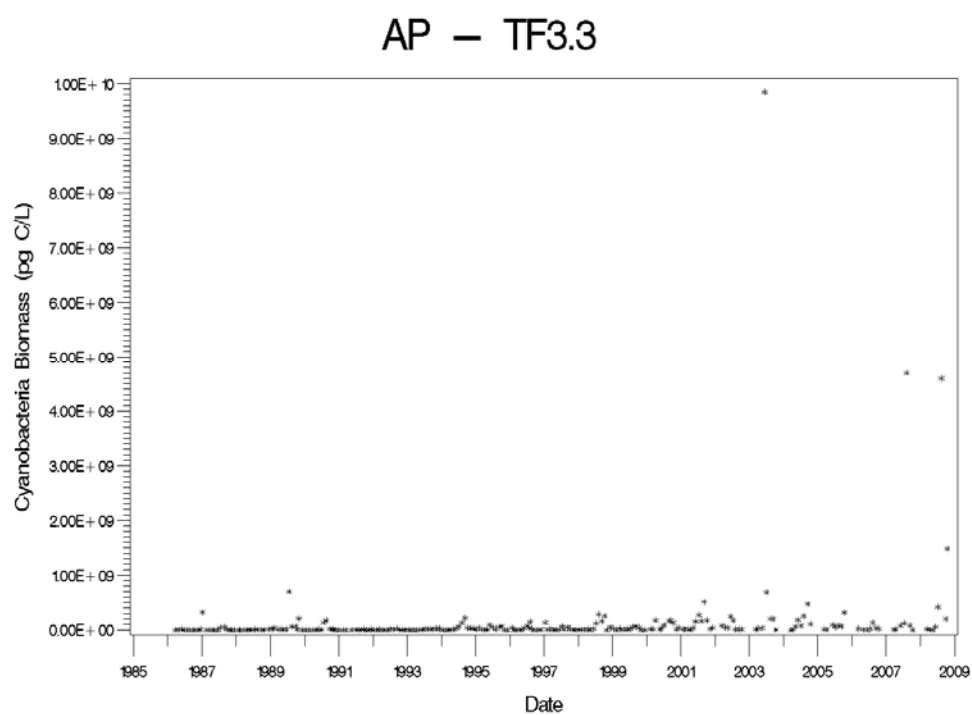


Figure 84. Plot of above pycnocline cyanobacteria biomass against time at station TF3.3 for the period of 1985 through 2008.

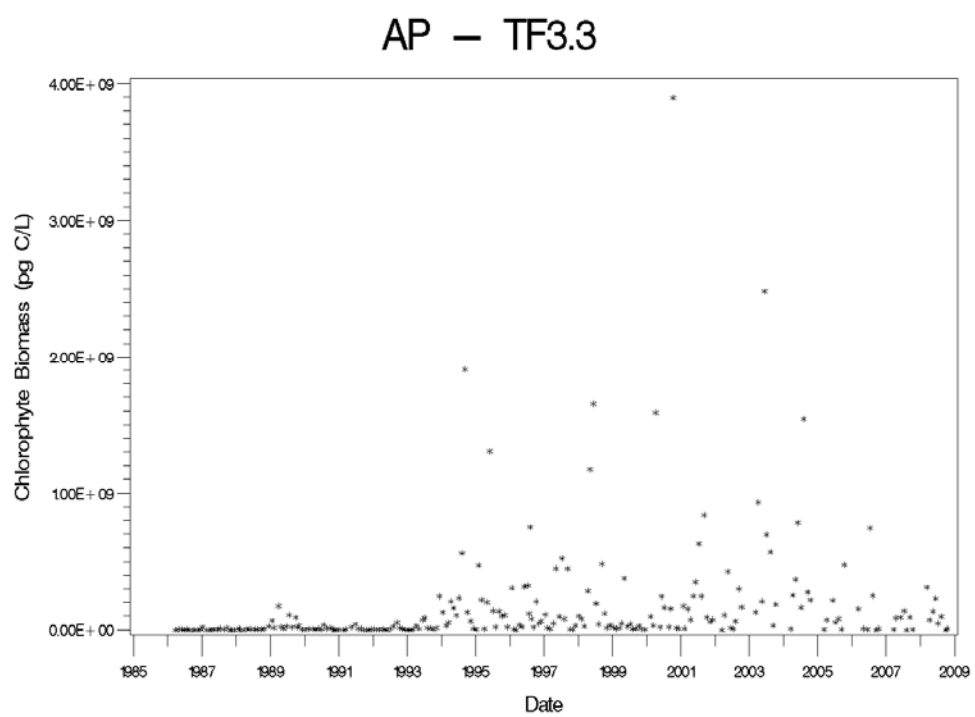


Figure 85. Plot of above pycnocline chlorophyte biomass against time at station TF3.3 for the period of 1985 through 2008.

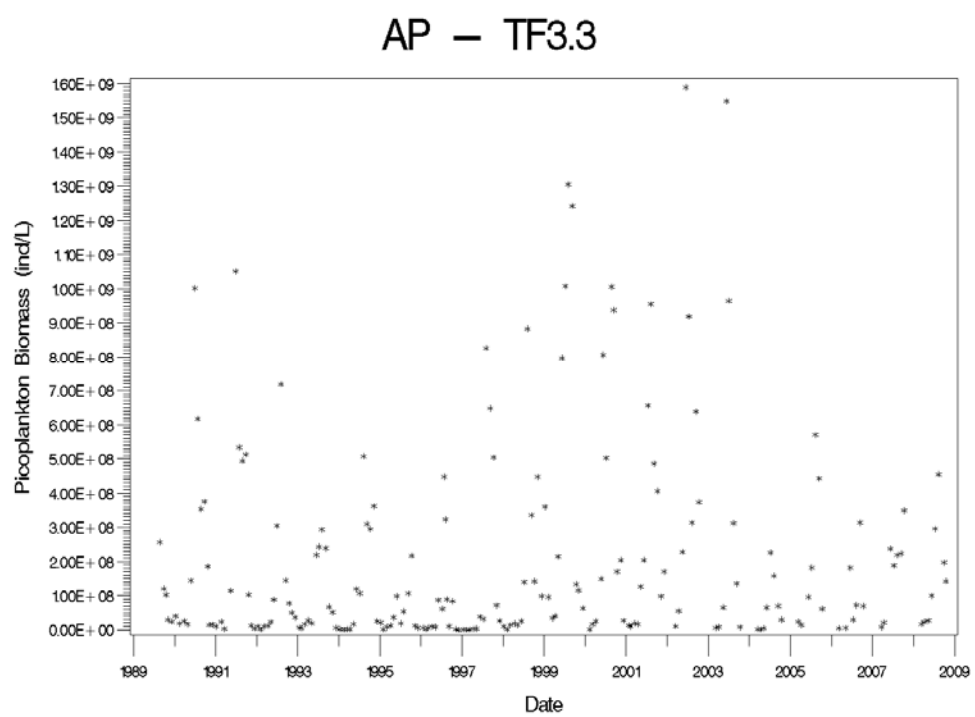


Figure 86. Plot of above pycnocline picoplankton biomass against time at station TF3.3 for the period of 1985 through 2008.

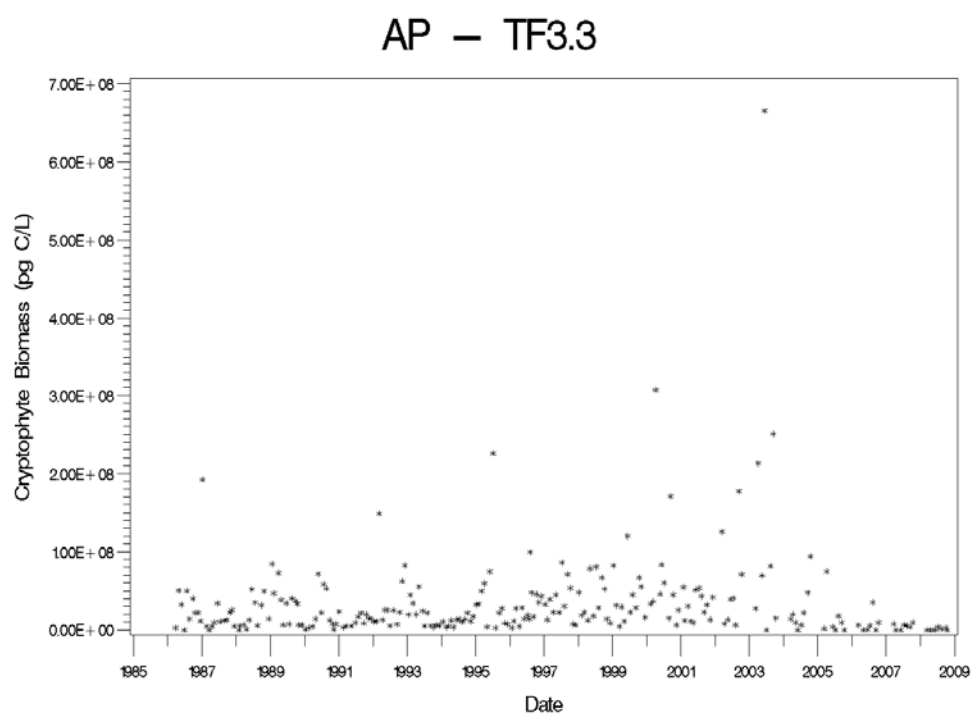


Figure 87. Plot of above pycnocline cryptophyte biomass against time at station TF3.3 for the period of 1985 through 2008.

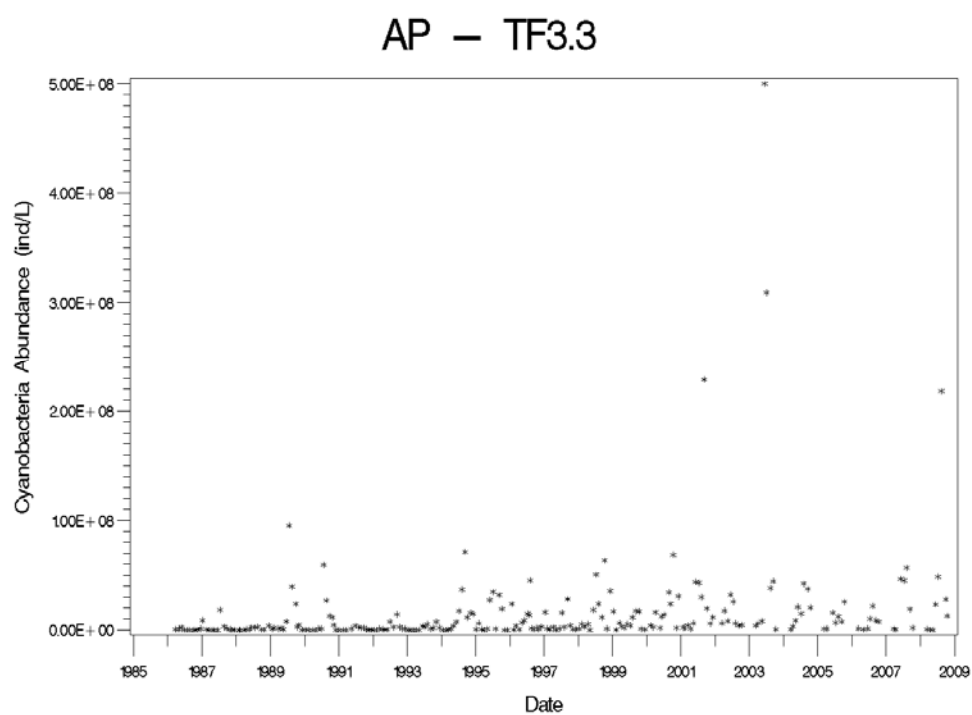


Figure 88. Plot of above pycnocline cyanophyte abundance at station TF3.3 for the period of 1985 through 2008.

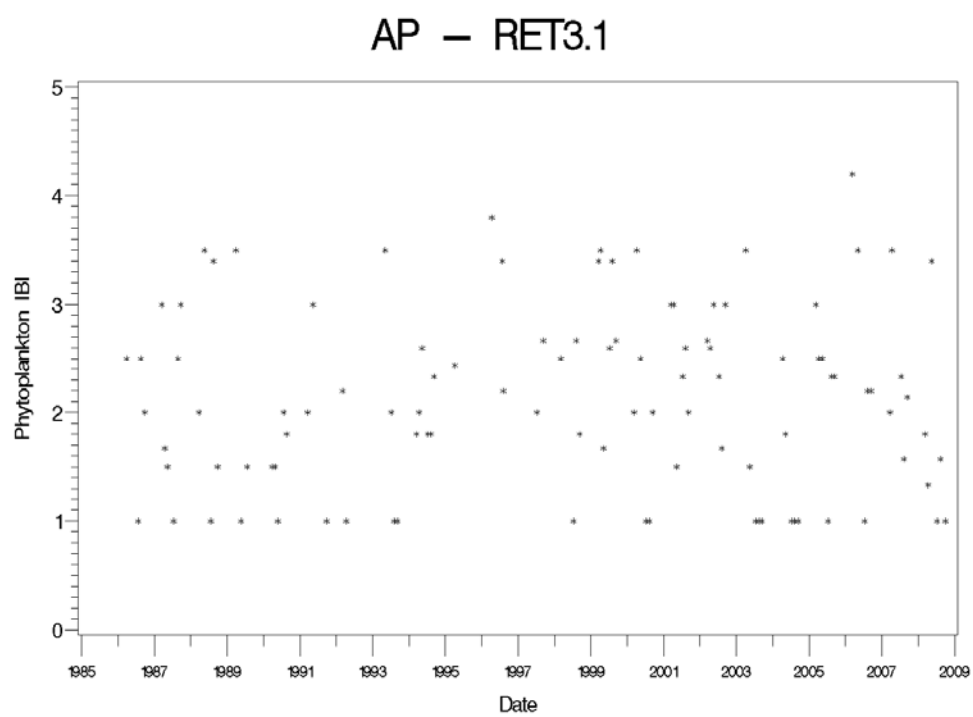


Figure 89. Plot of above pycnocline phytoplankton IBI scores against time at station RET3.1 for the period of 1985 through 2008.

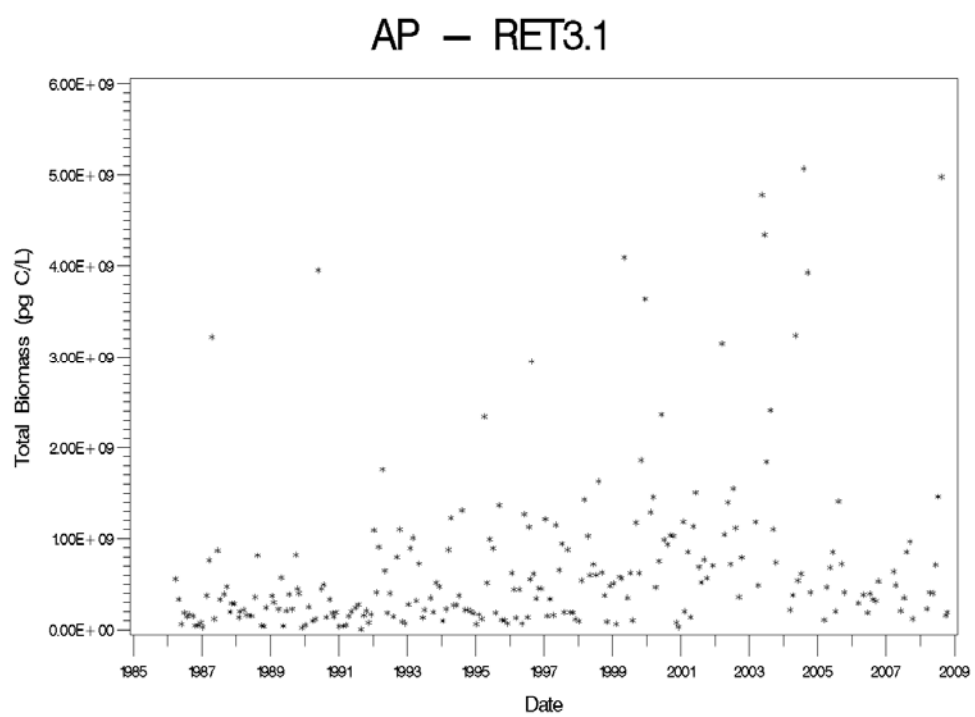


Figure 90. Plot of above pycnocline total phytoplankton biomass against time at station RET3.1 for the period of 1985 through 2008.

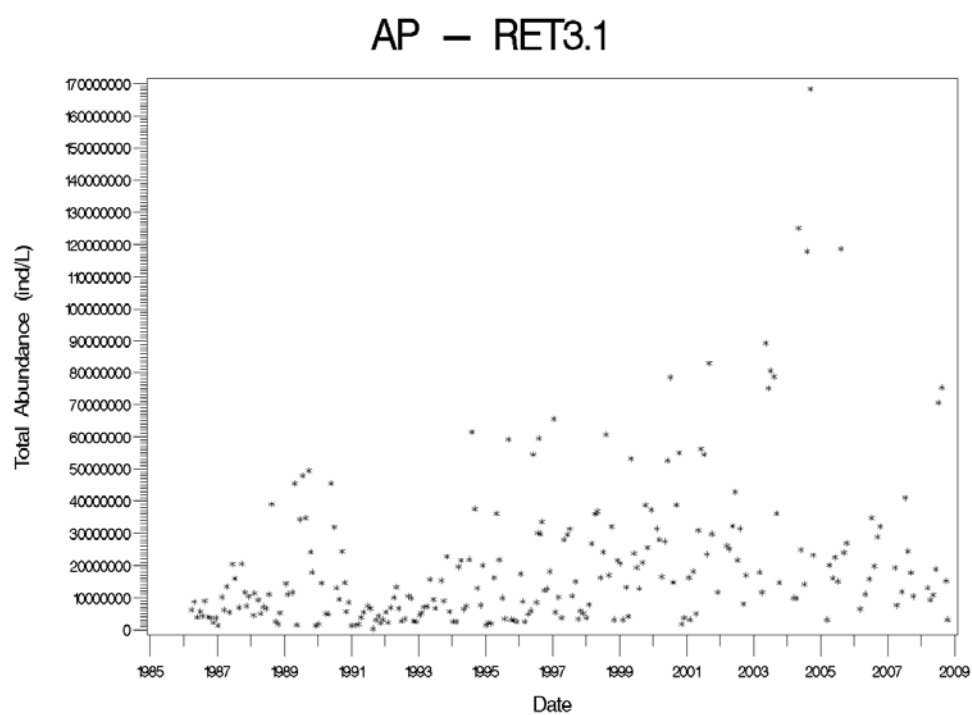


Figure 91. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET3.1 for the period of 1985 through 2008.

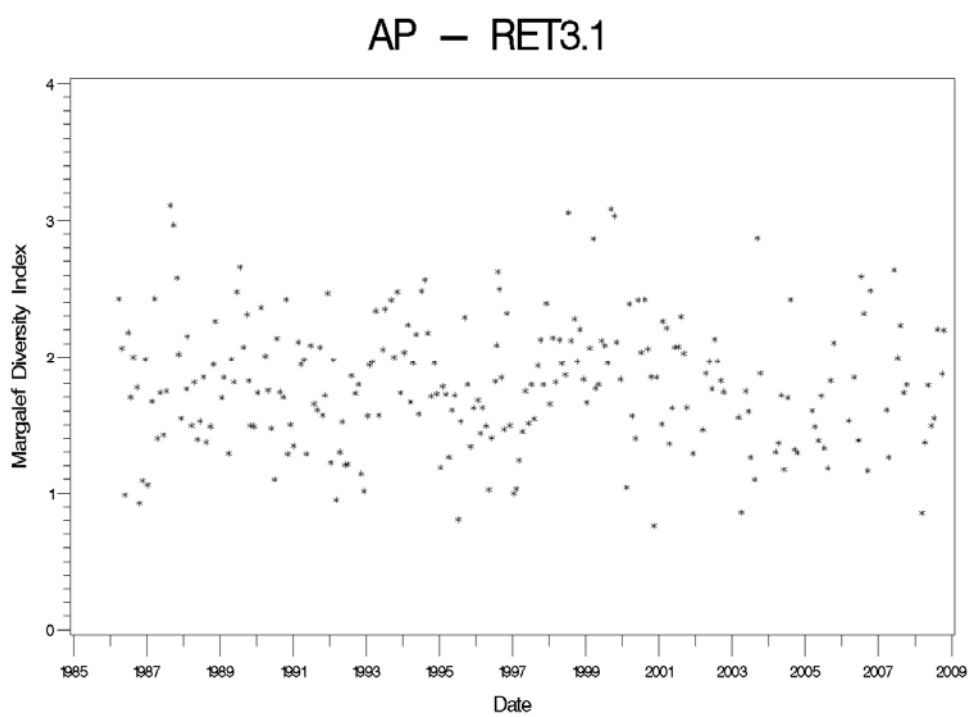


Figure 92. Plot of above pycnocline Margalef diversity index against time at station RET3.1 for the period of 1985 through 2008.

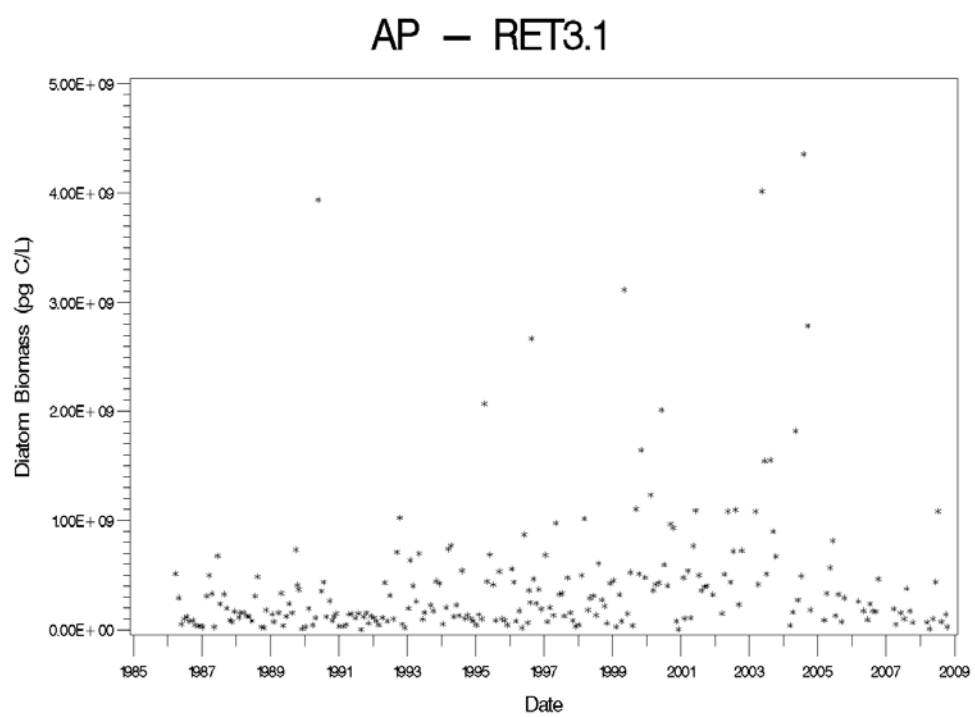


Figure 93. Plot of above pycnocline diatom biomass against time at station RET3.1 for the period of 1985 through 2008.

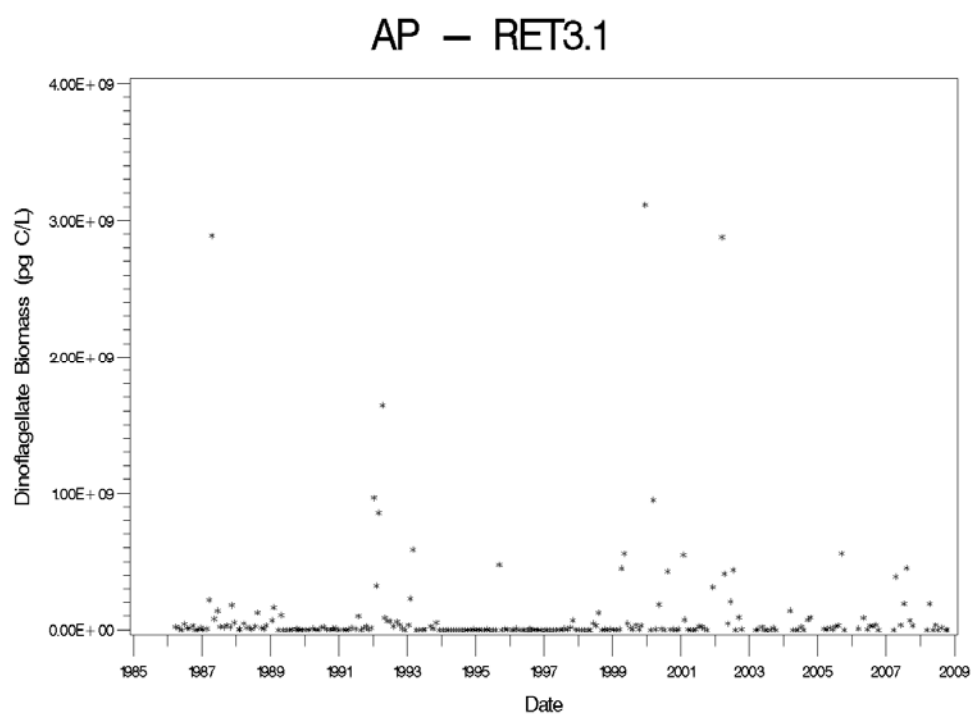


Figure 94. Plot of above pycnocline dinoflagellate biomass against time at station RET3.1 for the period of 1985 through 2008.

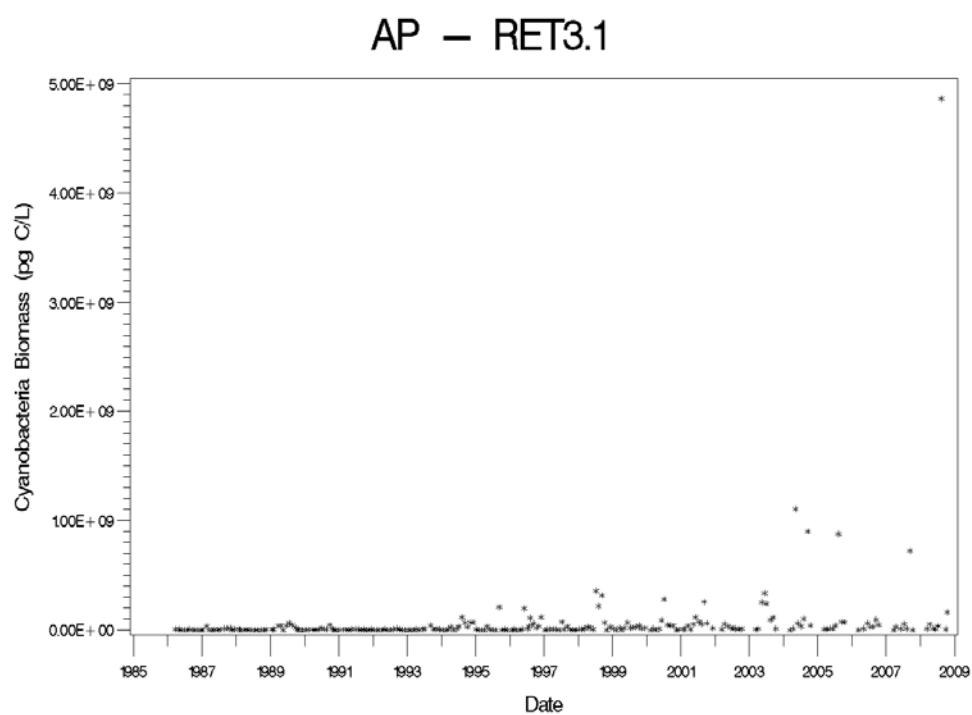


Figure 95. Plot of above pycnocline cyanobacteria biomass against time at station RET3.1 for the period of 1985 through 2008.

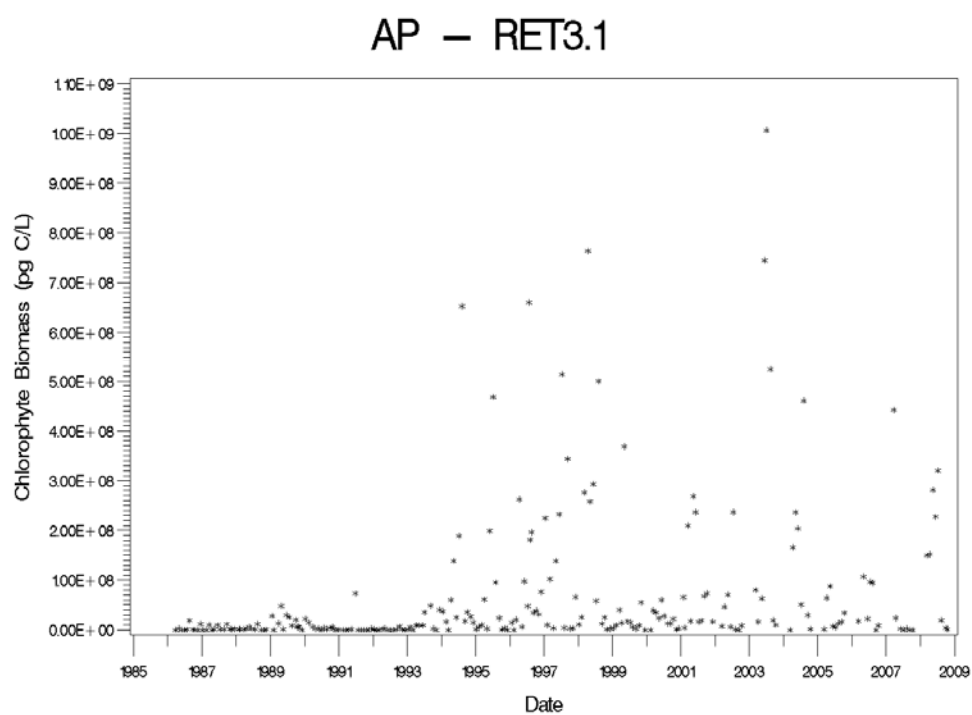


Figure 96. Plot of above pycnocline chlorophyte biomass against time at station RET3.1 for the period of 1985 through 2008.

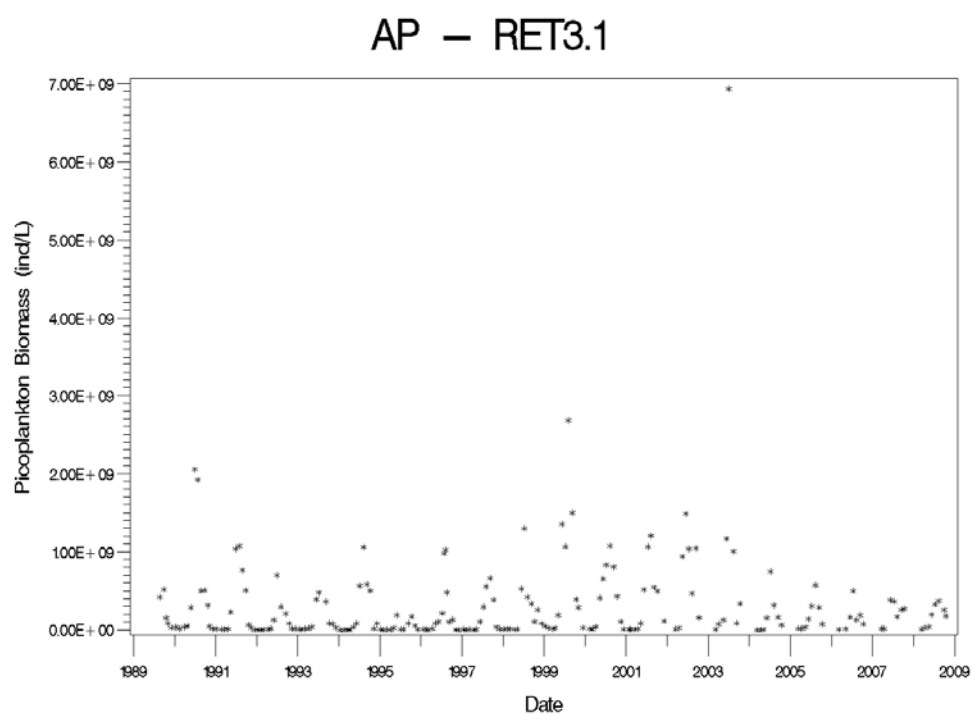


Figure 97. Plot of above pycnocline picoplankton biomass against time at station RET3.1 for the period of 1985 through 2008.

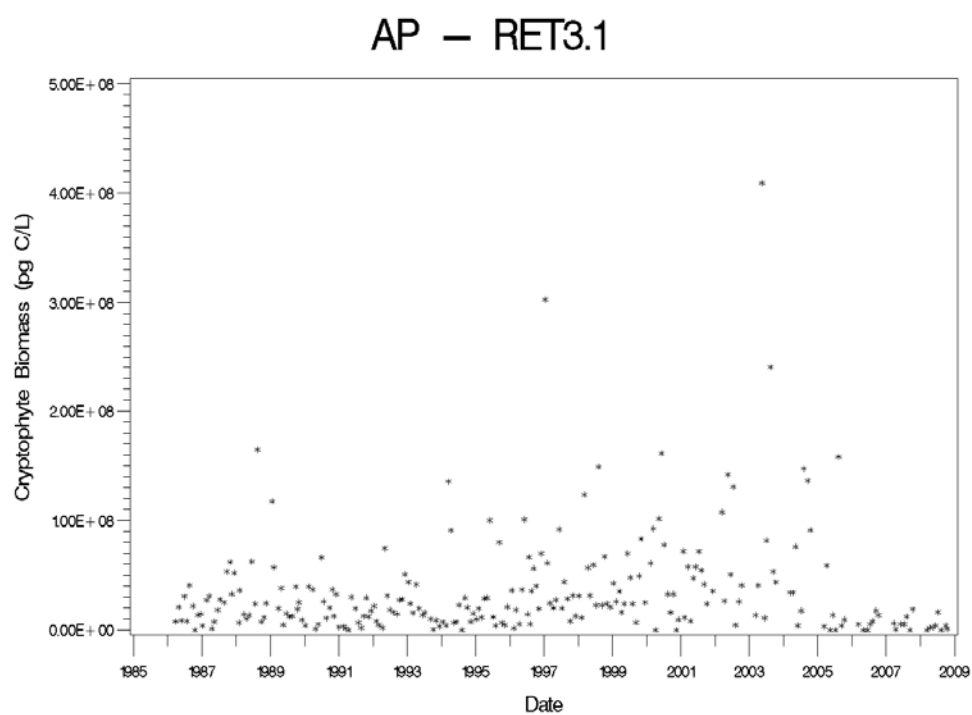


Figure 98. Plot of above pycnocline cryptophyte biomass at station RET3.1 for the period of 1985 through 2008.

AP – RET3.1

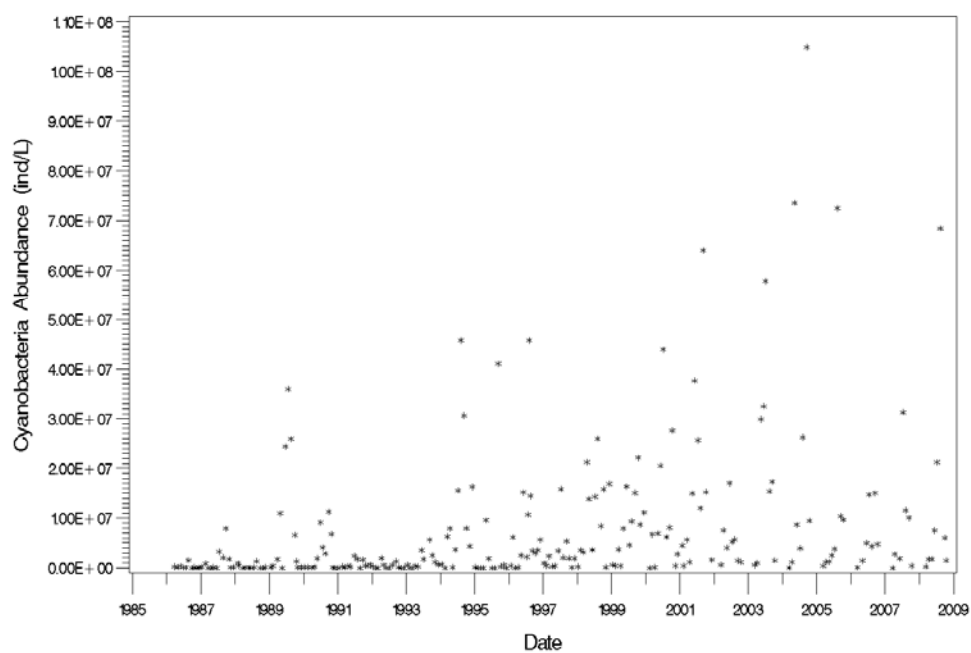


Figure 99. Plot of above pycnocline cyanophyte abundance at station RET3.1 for the period of 1985 through 2008.

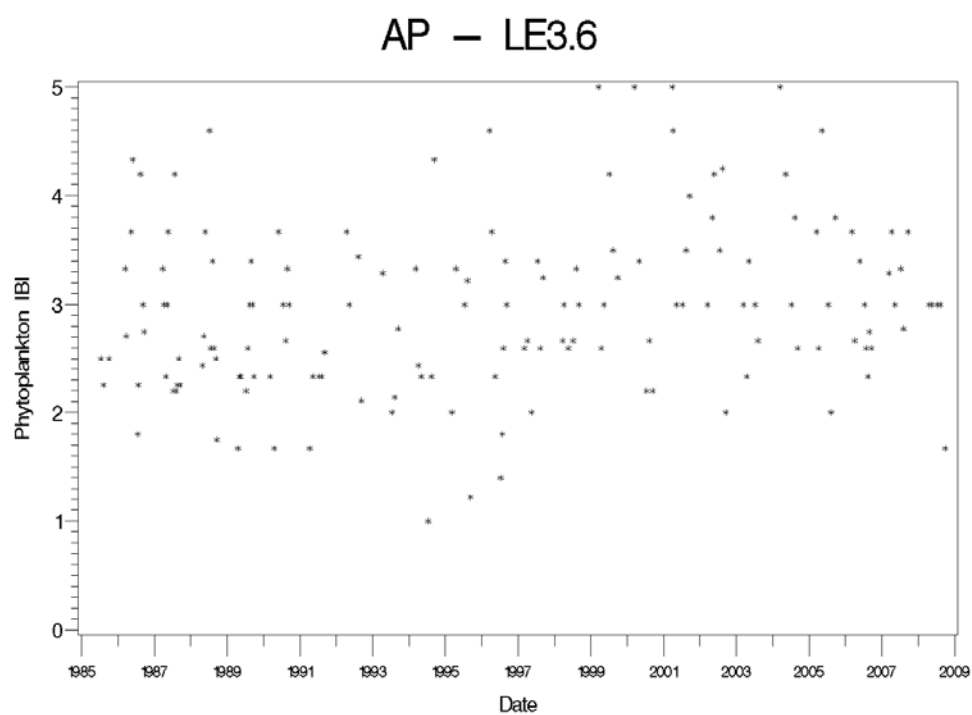


Figure 100. Plot of above pycnocline phytoplankton IBI scores against time at station LE3.6 for the period of 1985 through 2008.

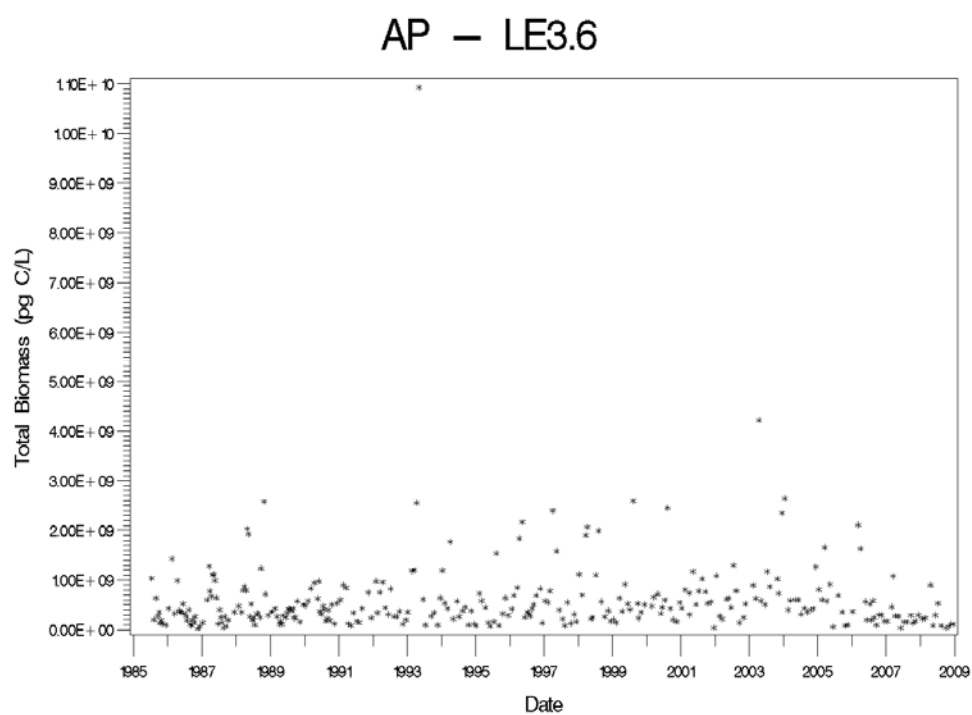


Figure 101. Plot of above pycnocline total phytoplankton biomass against time at station LE3.6 for the period of 1985 through 2008.

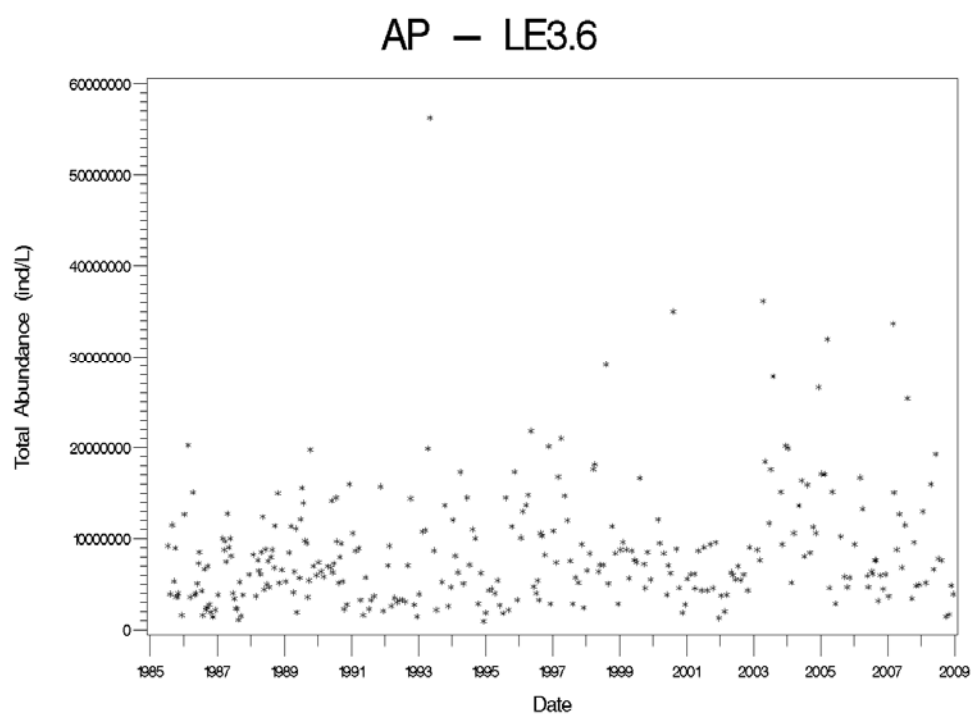


Figure 102. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station LE3.6 for the period of 1985 through 2008.

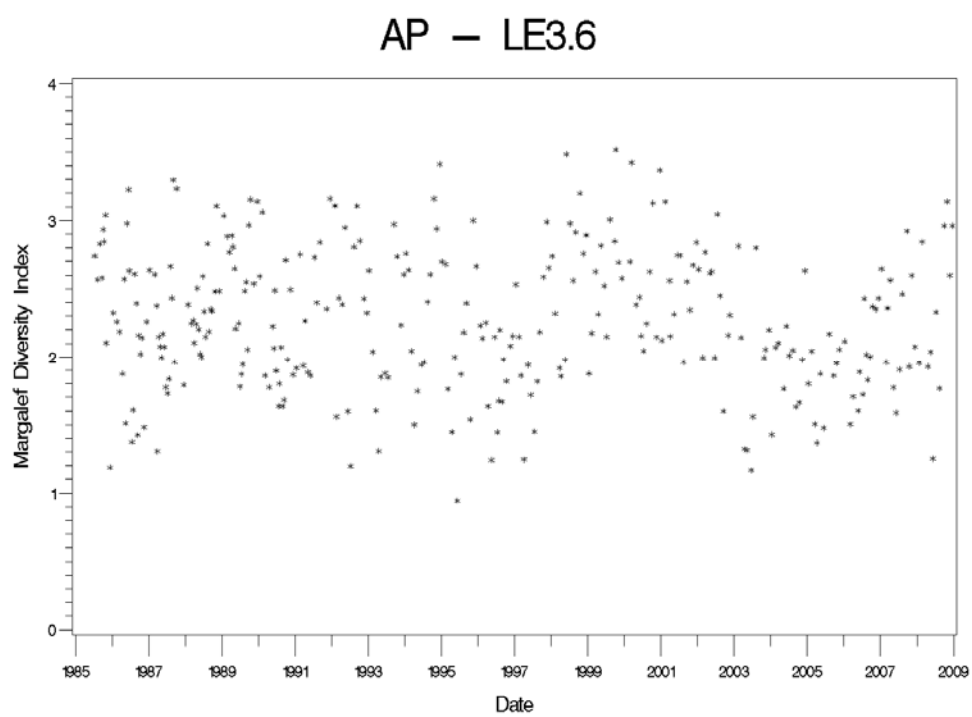


Figure 103. Plot of above pycnocline Margalef diversity index against time at station LE3.6 for the period of 1985 through 2008.

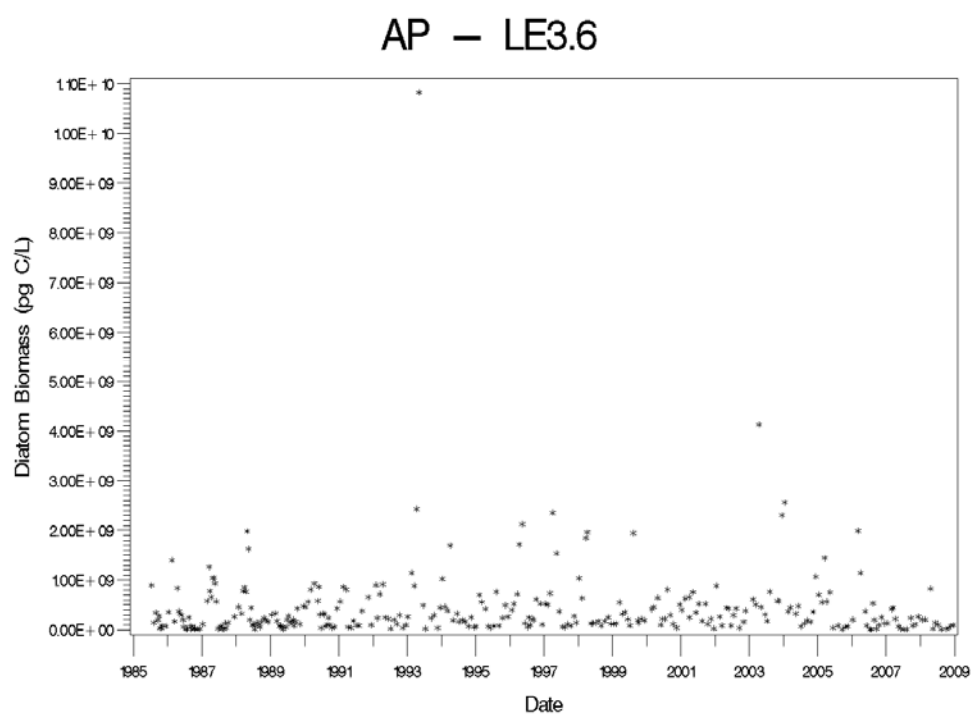


Figure 104. Plot of above pycnocline diatom biomass against time at station LE3.6 for the period of 1985 through 2008.

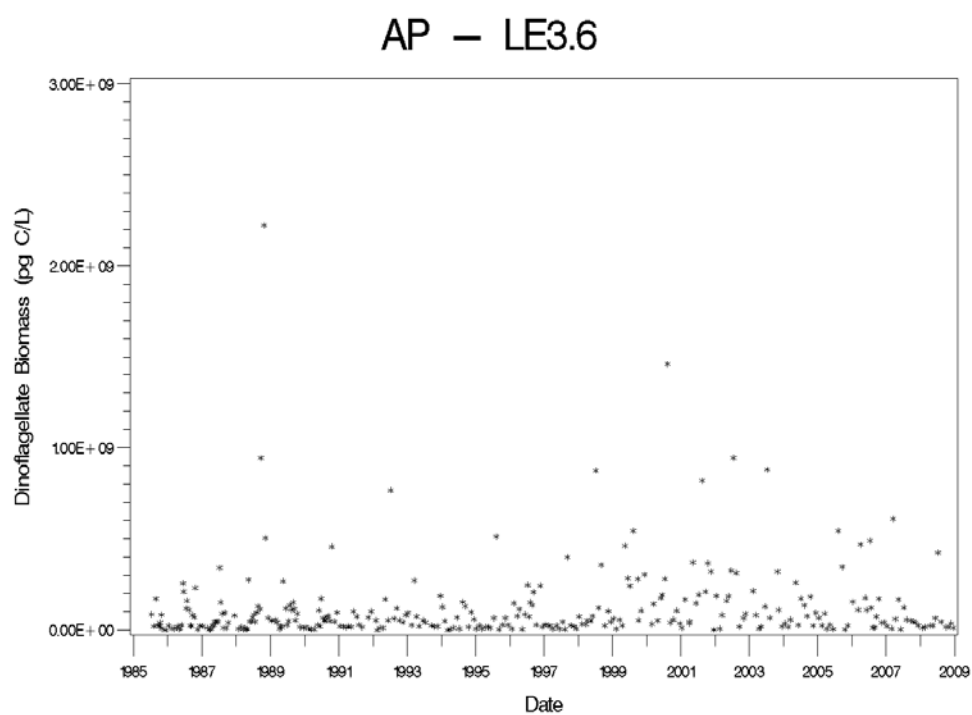


Figure 105. Plot of above pycnocline dinoflagellate biomass against time at station LE3.6 for the period of 1985 through 2008.

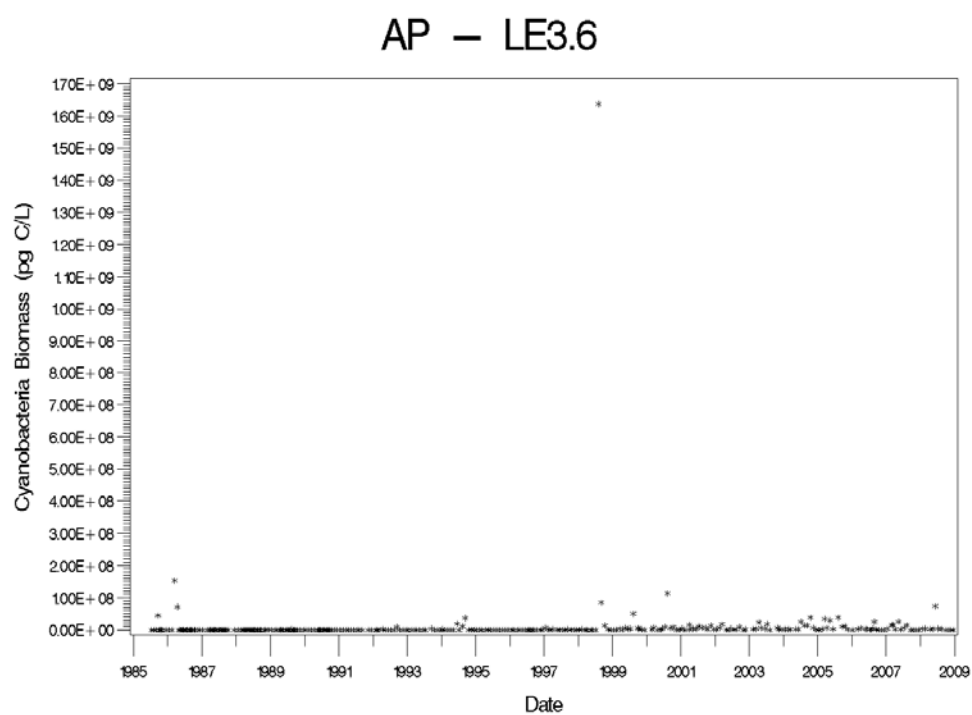


Figure 106. Plot of above pycnocline cyanobacteria biomass against time at station LE3.6 for the period of 1985 through 2008.

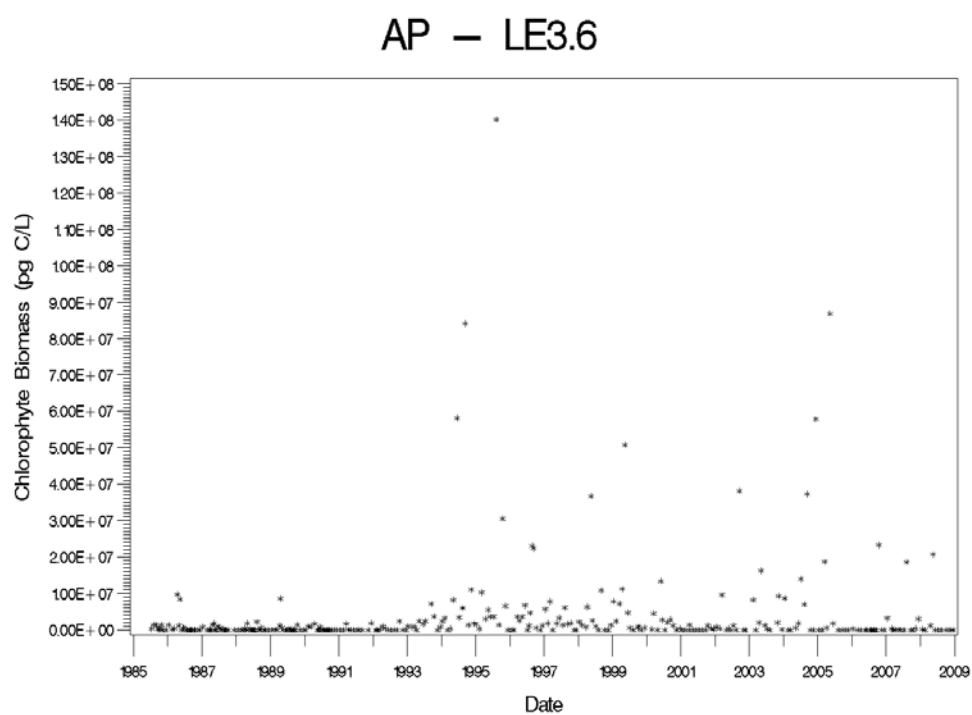


Figure 107. Plot of above pycnocline chlorophyte biomass against time at station LE3.6 for the period of 1985 through 2008.

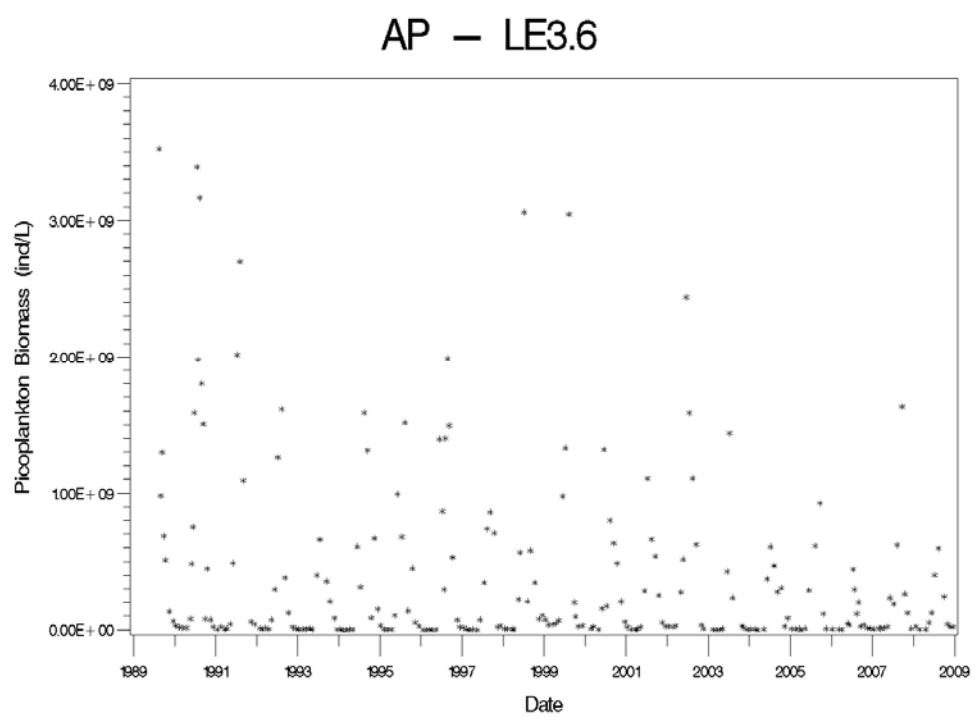


Figure 108. Plot of above pycnocline picoplankton biomass against time at station LE3.6 for the period of 1985 through 2008.

AP – LE3.6

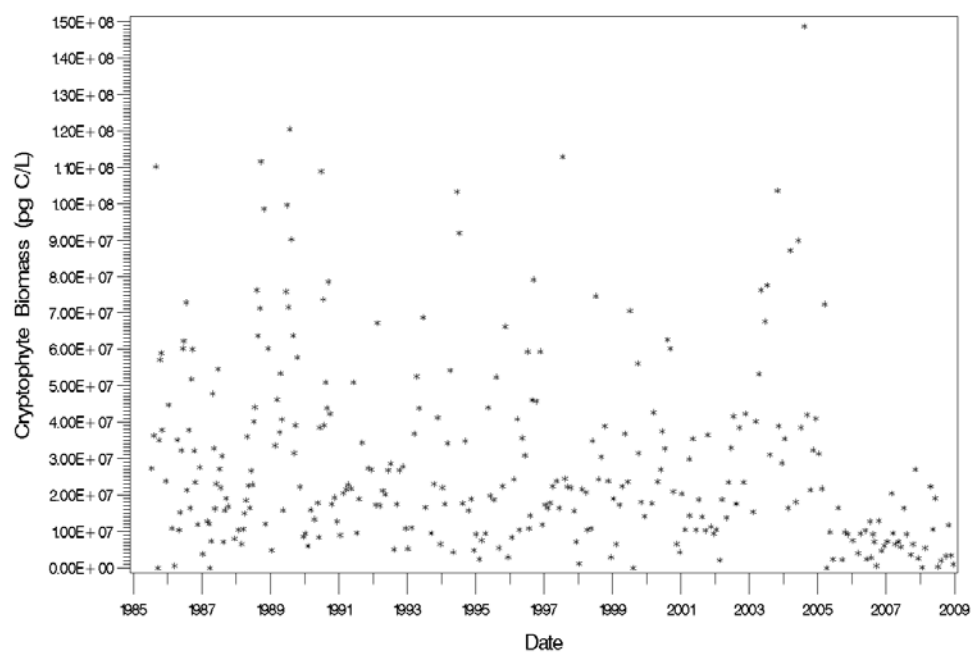


Figure 109. Plot of above pycnocline cryptophyte biomass at station LE3.6 for the period of 1985 through 2008.

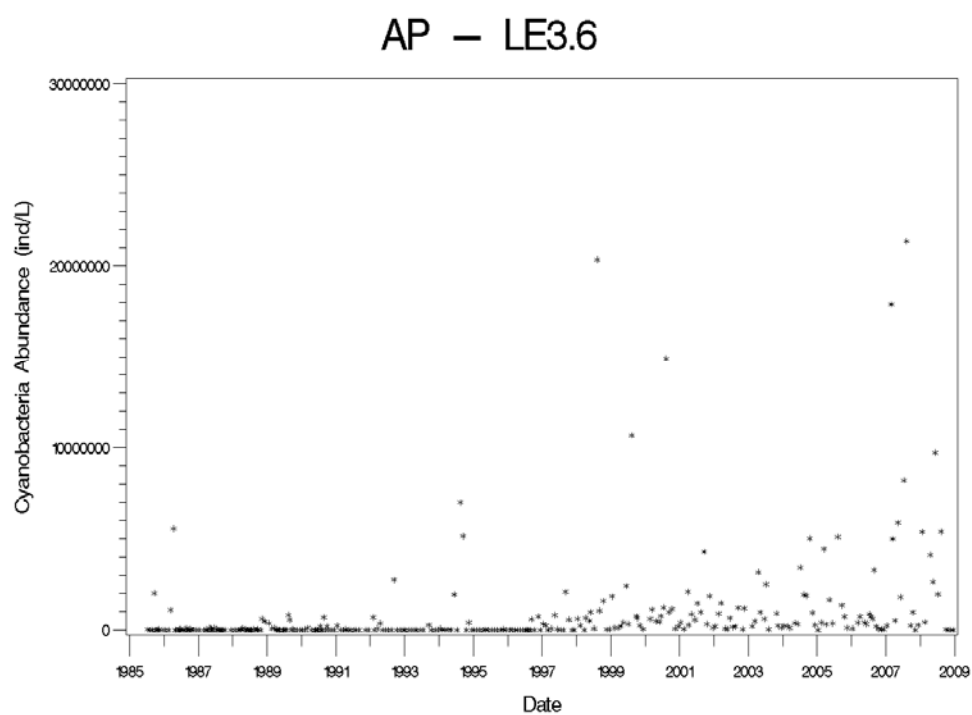


Figure 110. Plot of above pycnocline cyanophyte abundance at station LE3.6 for the period of 1985 through 2008.

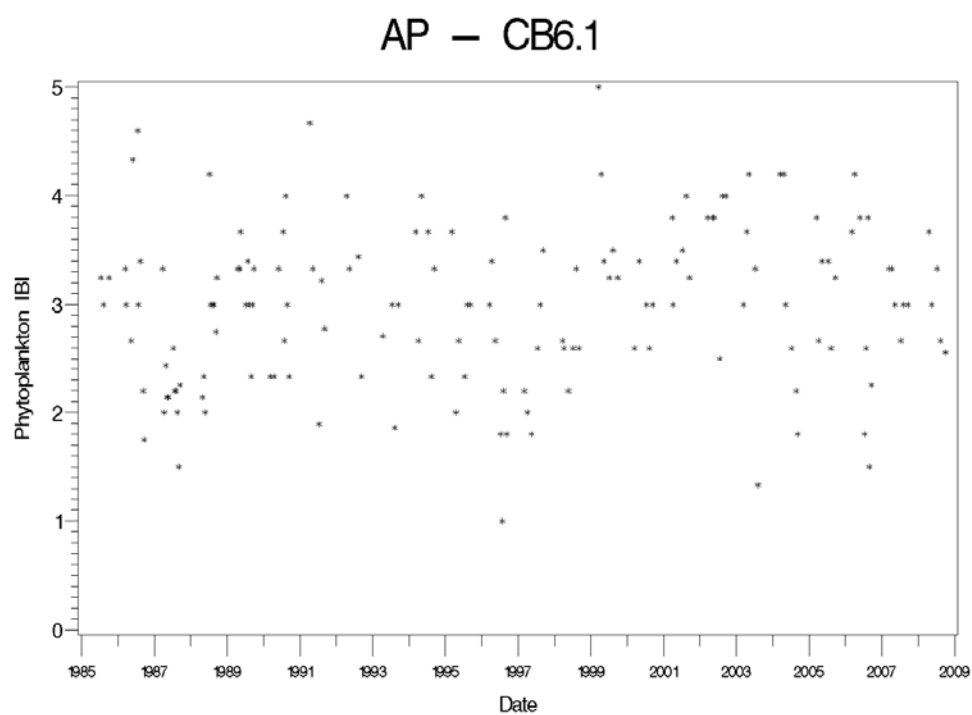


Figure 111. Plot of above pycnocline phytoplankton IBI scores against time at station CB6.1 for the period of 1985 through 2008.

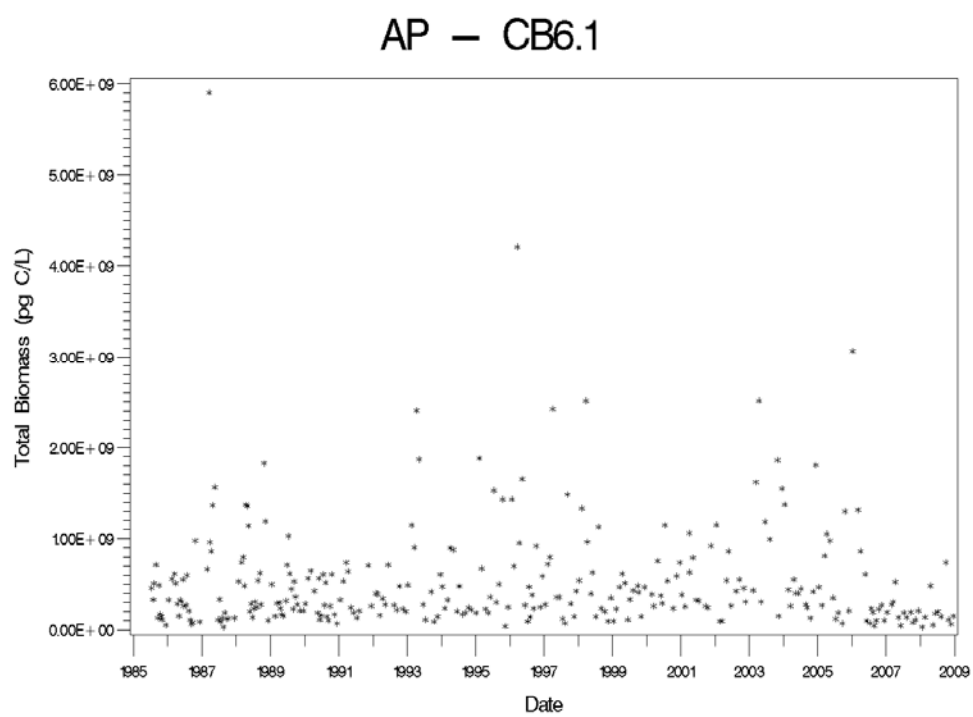


Figure 112. Plot of above pycnocline total phytoplankton biomass against time at station CB6.1 for the period of 1985 through 2008.

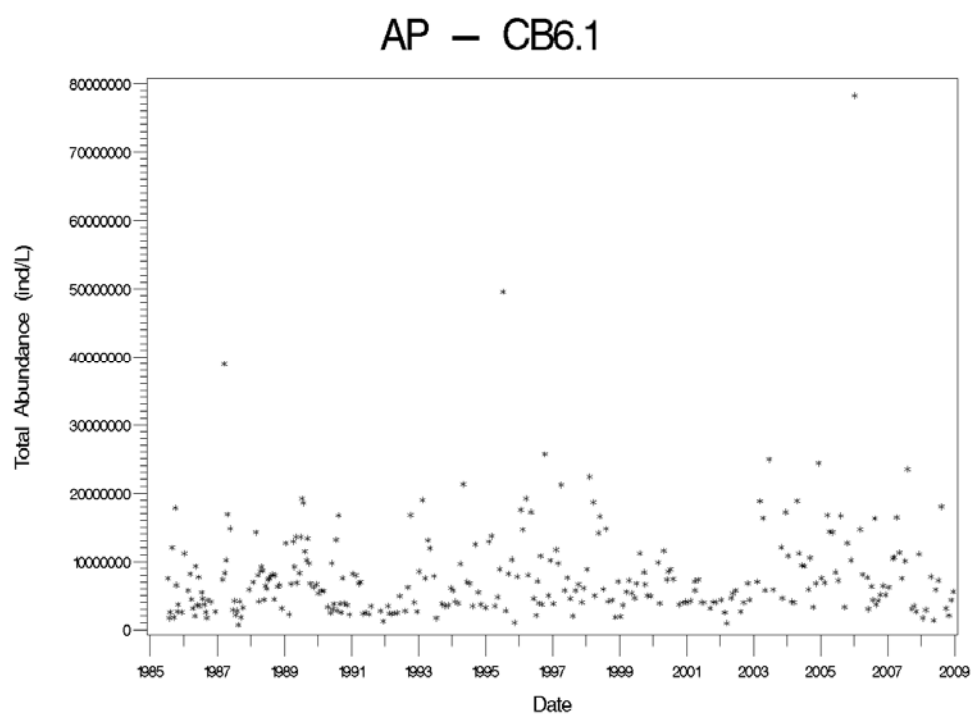


Figure 113. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB6.1 for the period of 1985 through 2008.

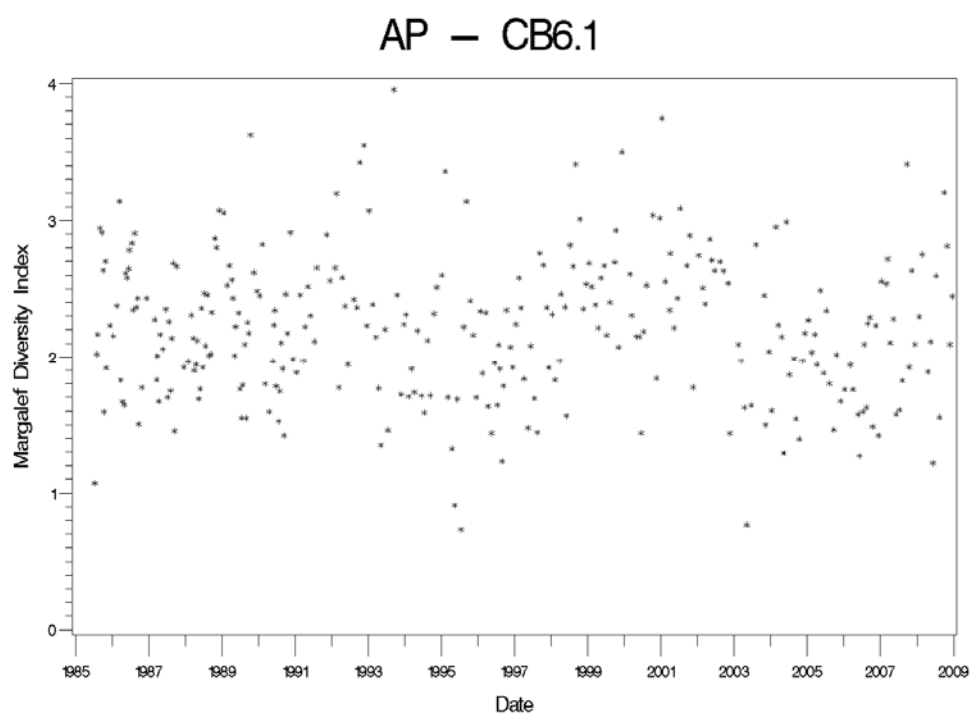


Figure 114. Plot of above pycnocline Margalef diversity index against time at station CB6.1 for the period of 1985 through 2008.

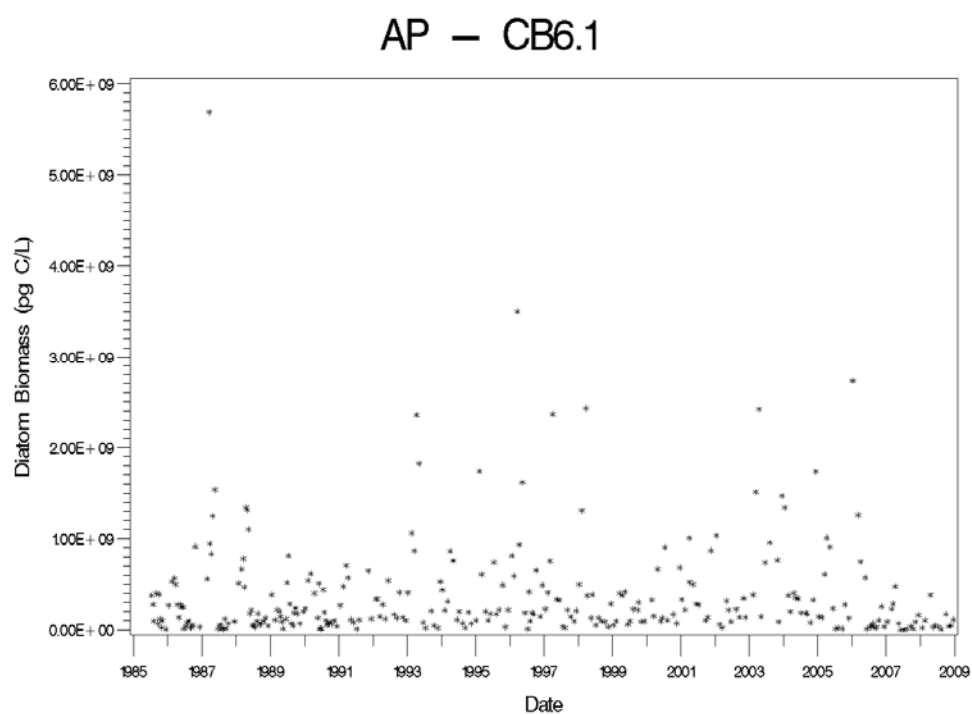


Figure 115. Plot of above pycnocline diatom biomass against time at station CB6.1 for the period of 1985 through 2008.

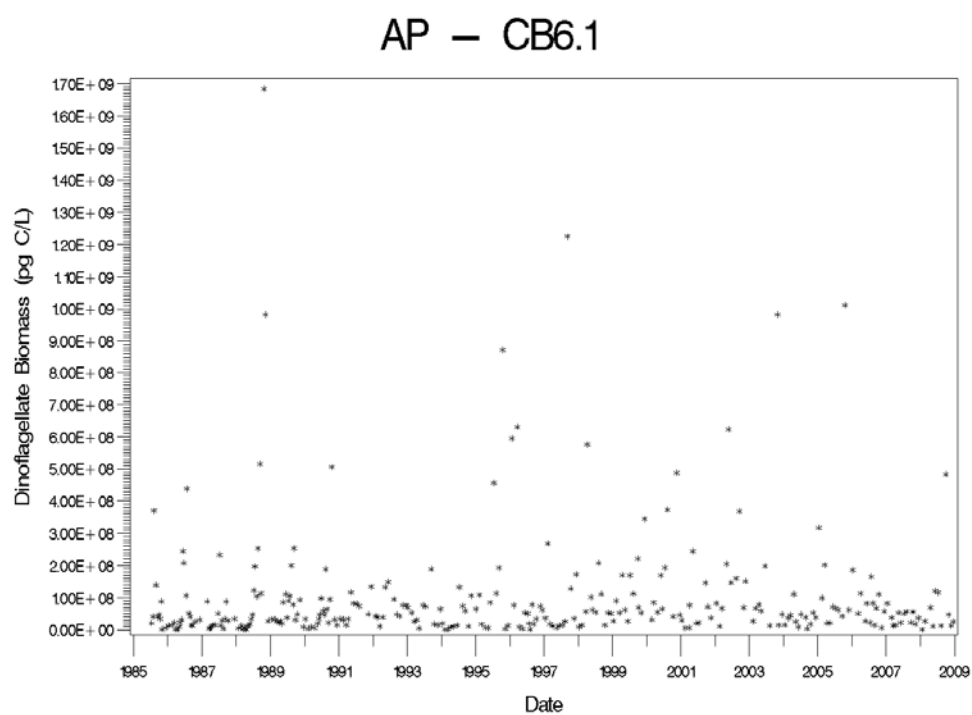


Figure 116. Plot of above pycnocline dinoflagellate biomass against time at station CB6.1 for the period of 1985 through 2008.

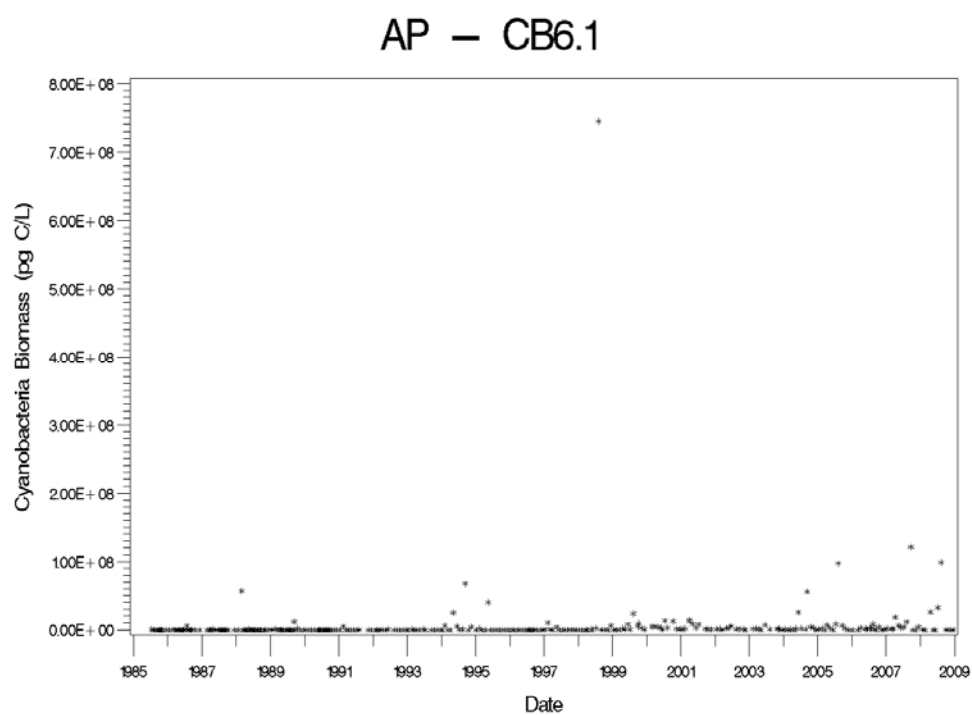


Figure 117. Plot of above pycnocline cyanobacteria biomass against time at station CB6.1 for the period of 1985 through 2008.

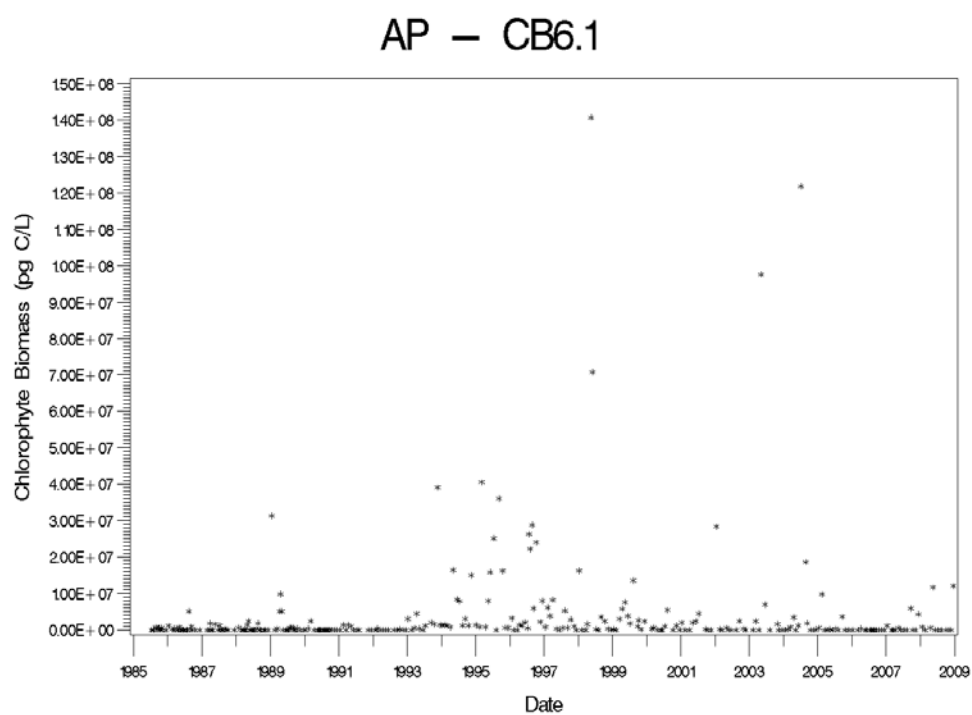


Figure 118. Plot of above pycnocline chlorophyte biomass against time at station CB6.1 for the period of 1985 through 2008.

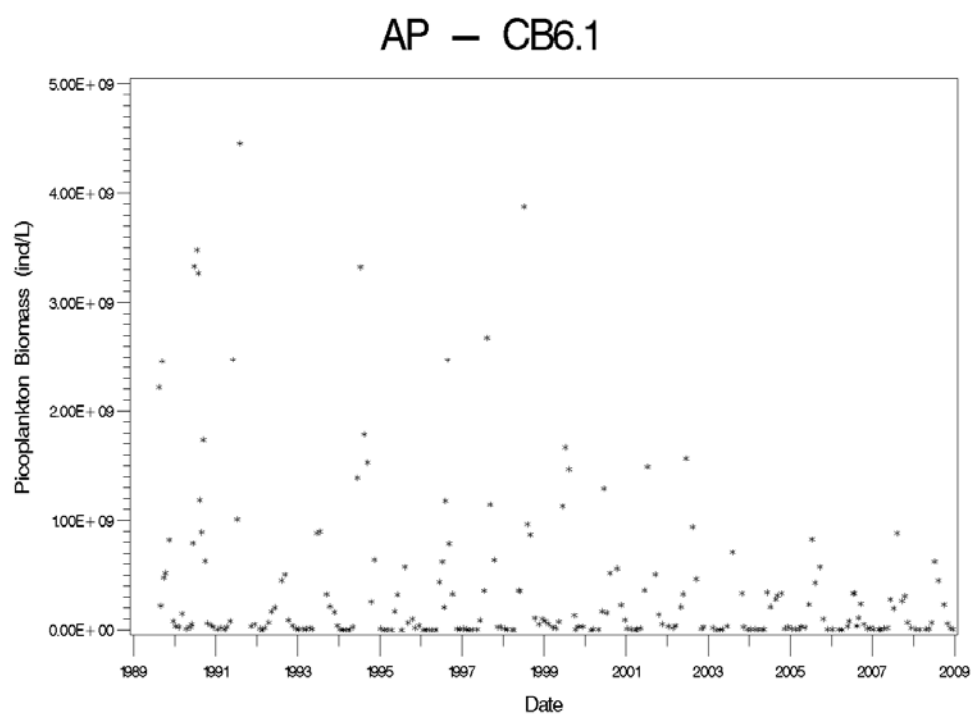


Figure 119. Plot of above pycnocline picoplankton biomass against time at station CB6.1 for the period of 1985 through 2008.

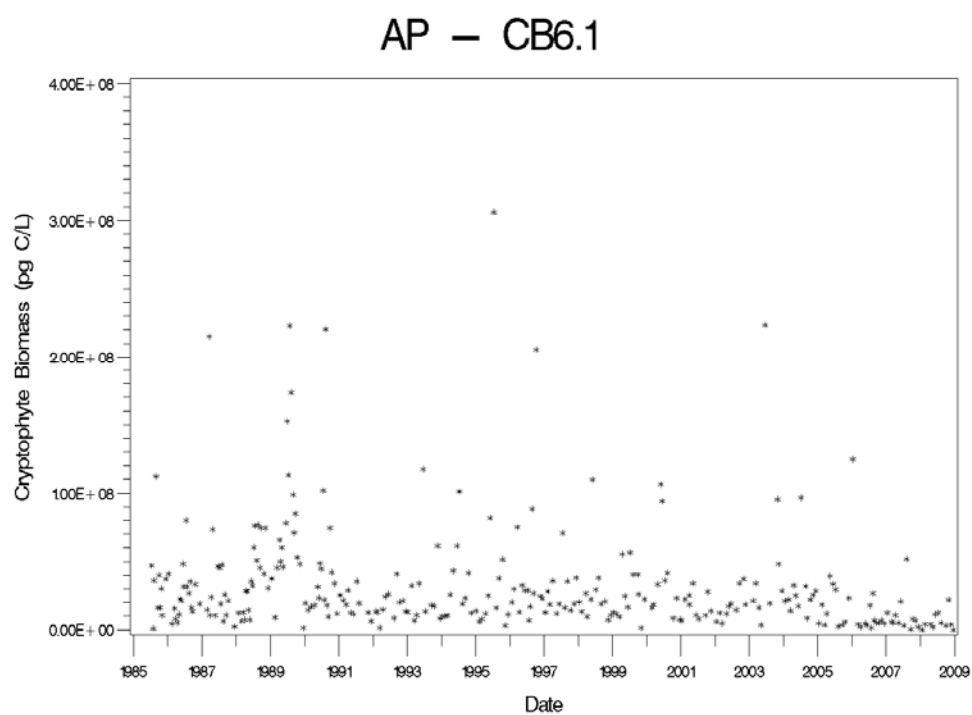


Figure 120. Plot of above pycnocline cryptophyte biomass at station CB6.1 for the period of 1985 through 2008.

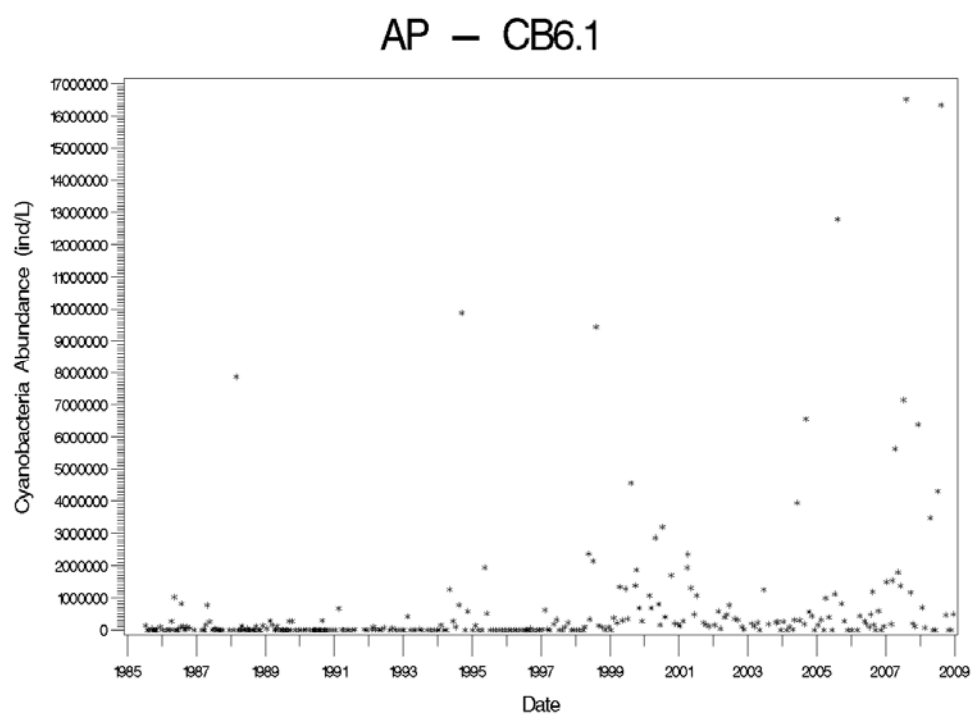


Figure 121. Plot of above pycnocline cyanophyte abundance at station CB6.1 for the period of 1985 through 2008.

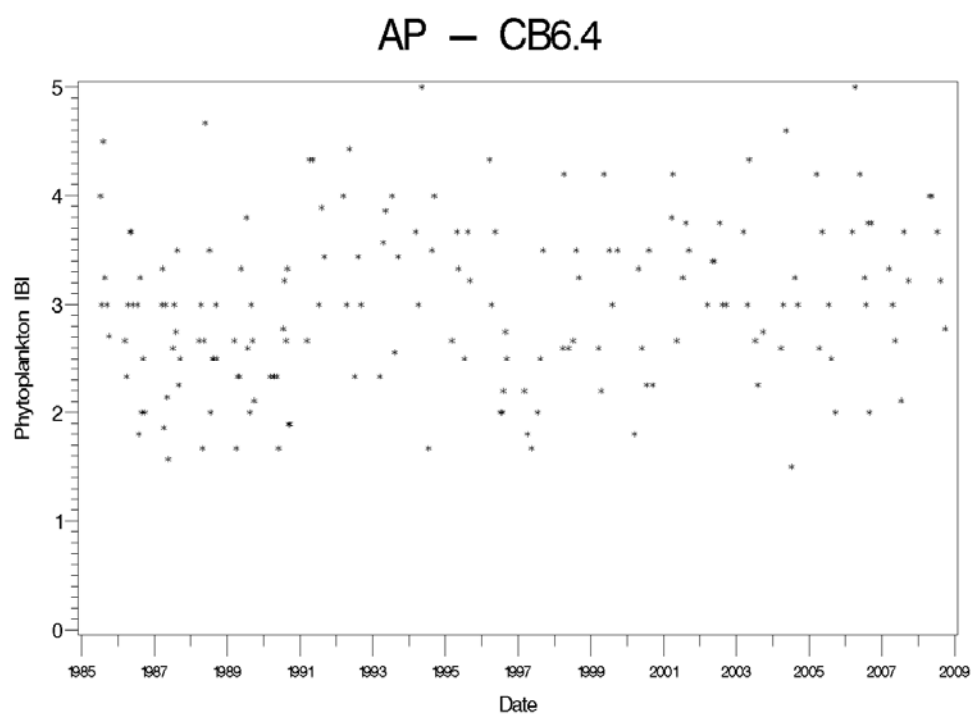


Figure 122. Plot of above pycnocline phytoplankton IBI scores against time at station CB6.4 for the period of 1985 through 2008.

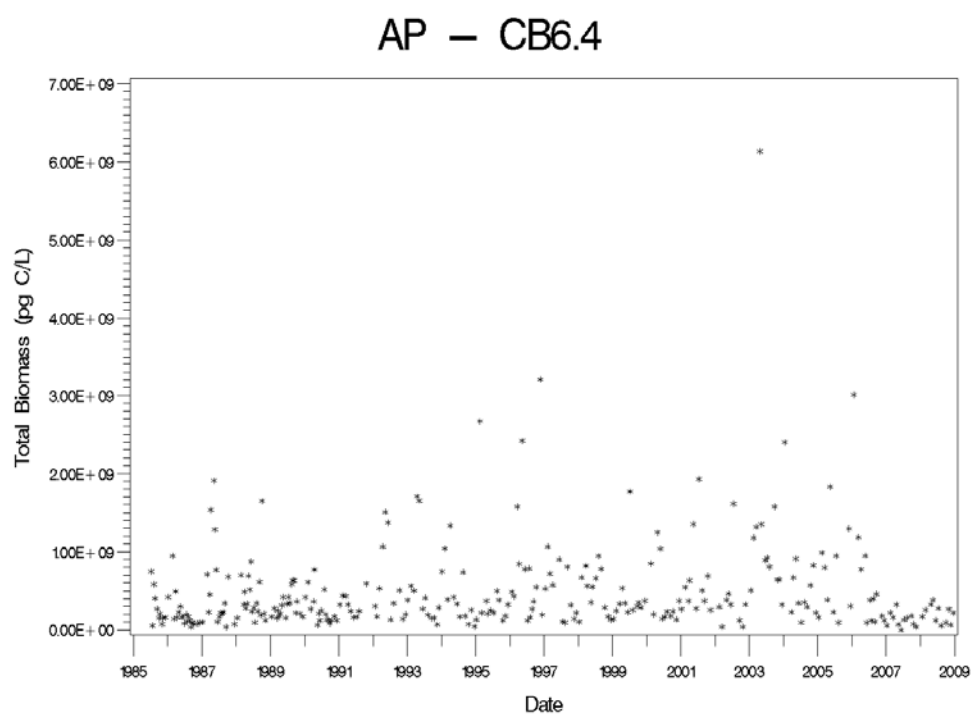


Figure 123. Plot of above pycnocline total phytoplankton biomass against time at station CB6.4 for the period of 1985 through 2008.

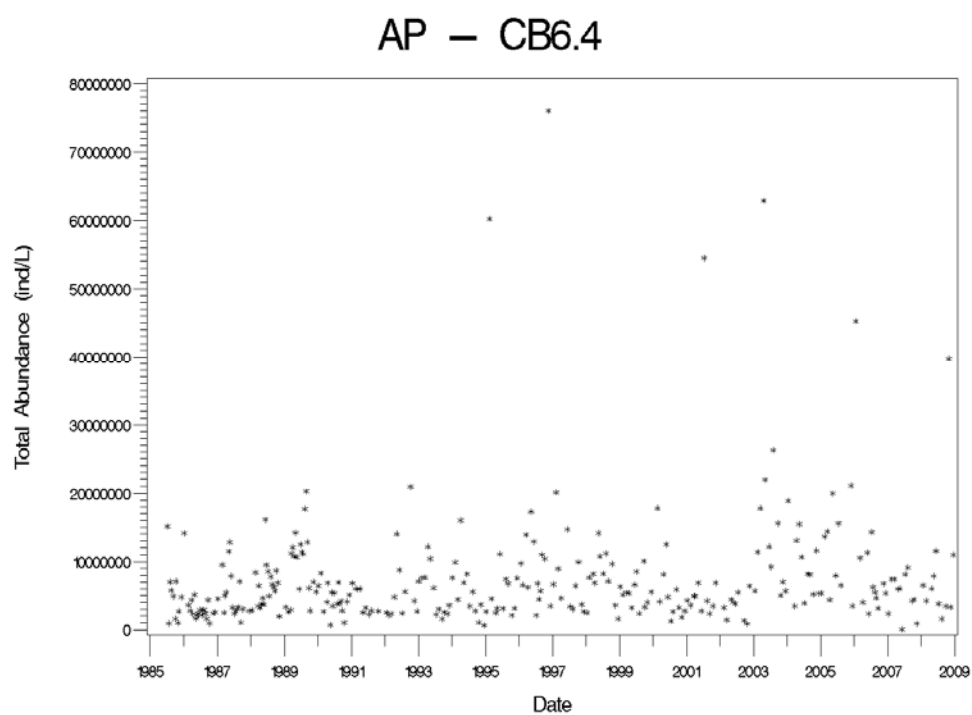


Figure 124. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB6.4 for the period of 1985 through 2008.

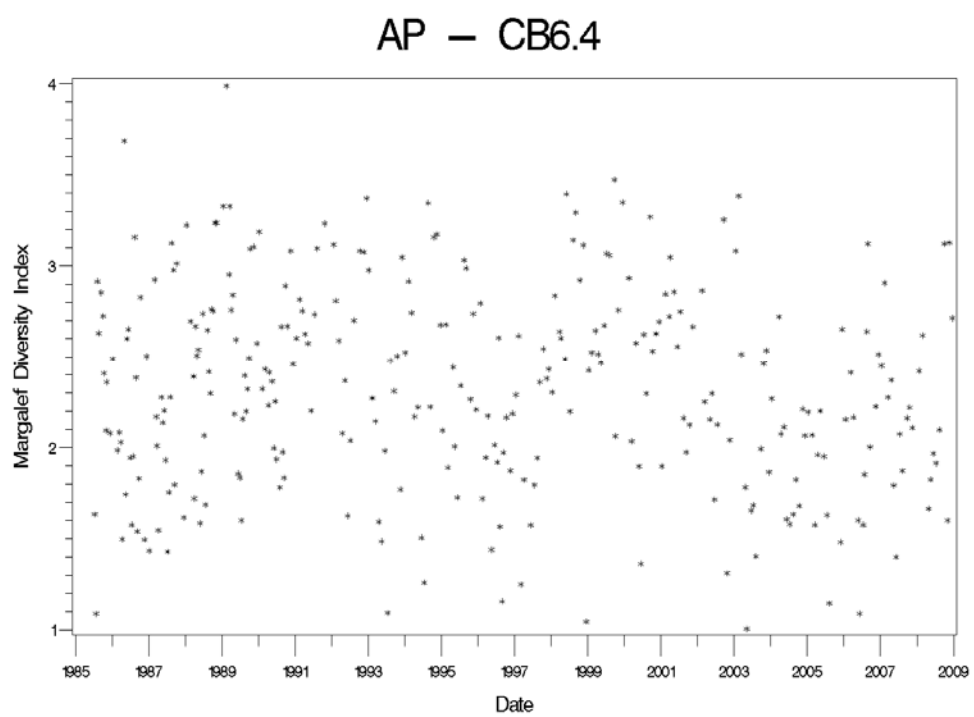


Figure 125. Plot of above pycnocline Margalef diversity index against time at station CB6.4 for the period of 1985 through 2008.

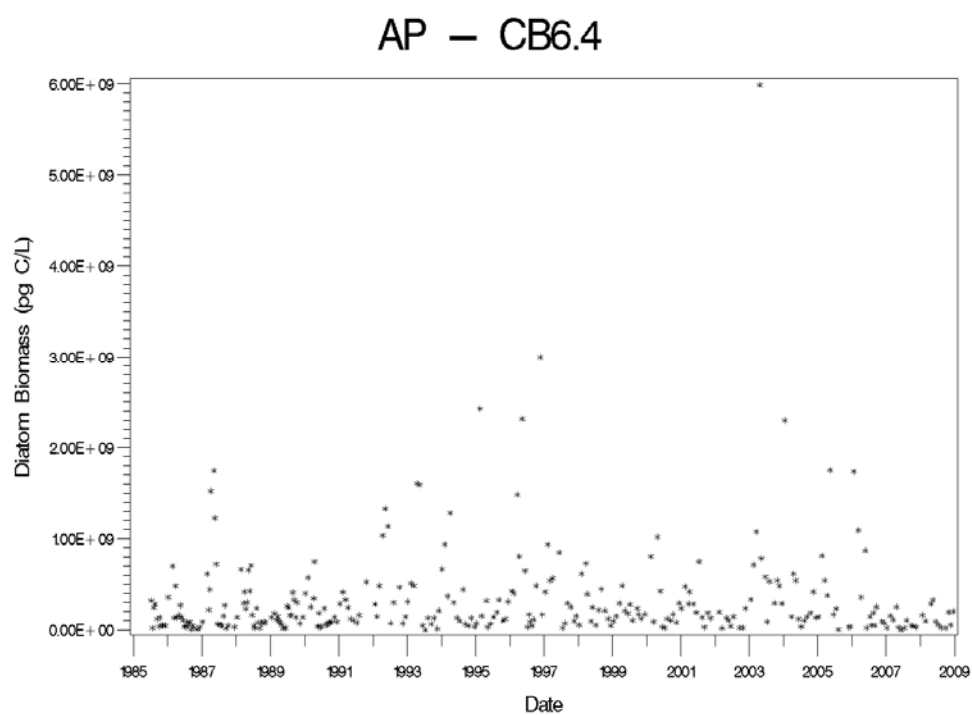


Figure 126. Plot of above pycnocline diatom biomass against time at station CB6.4 for the period of 1985 through 2008.

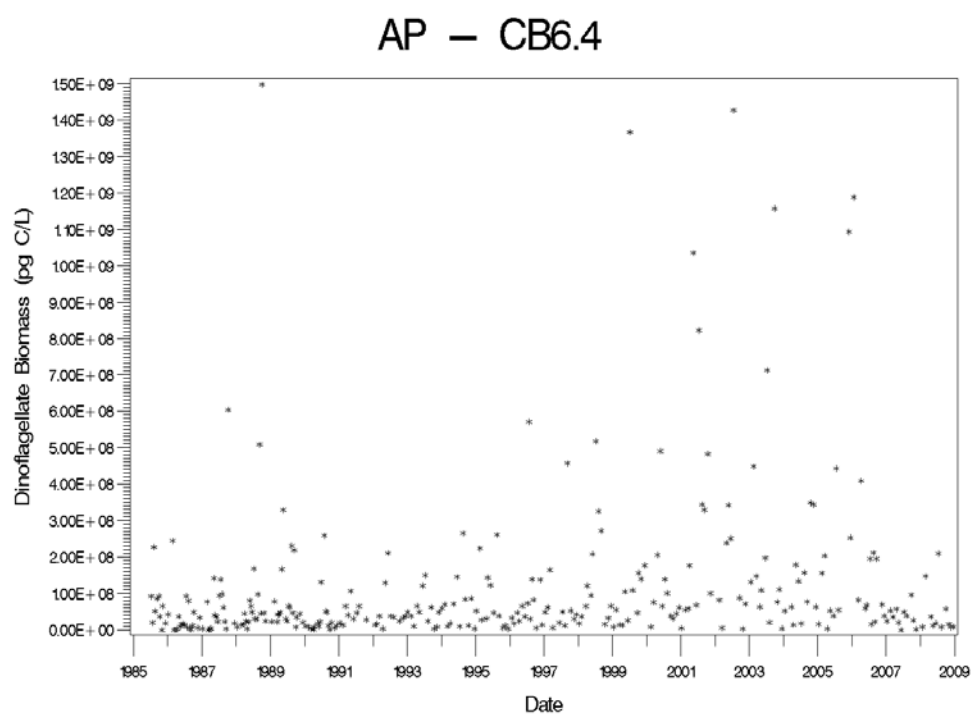


Figure 127. Plot of above pycnocline dinoflagellate biomass against time at station CB6.4 for the period of 1985 through 2008.

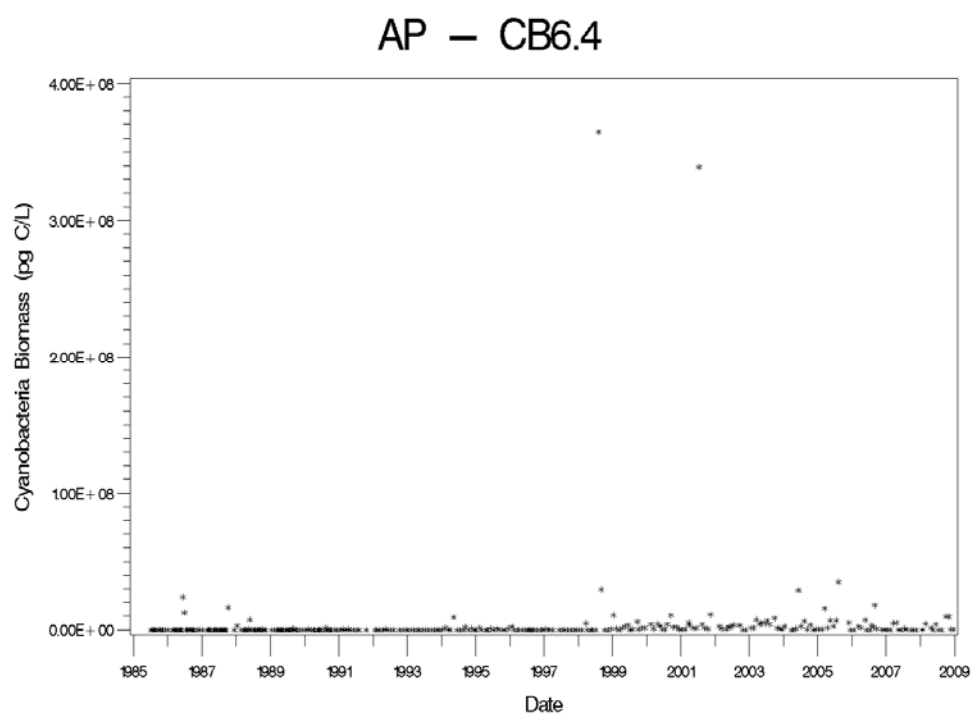


Figure 128. Plot of above pycnocline cyanobacteria biomass against time at station CB6.4 for the period of 1985 through 2008.

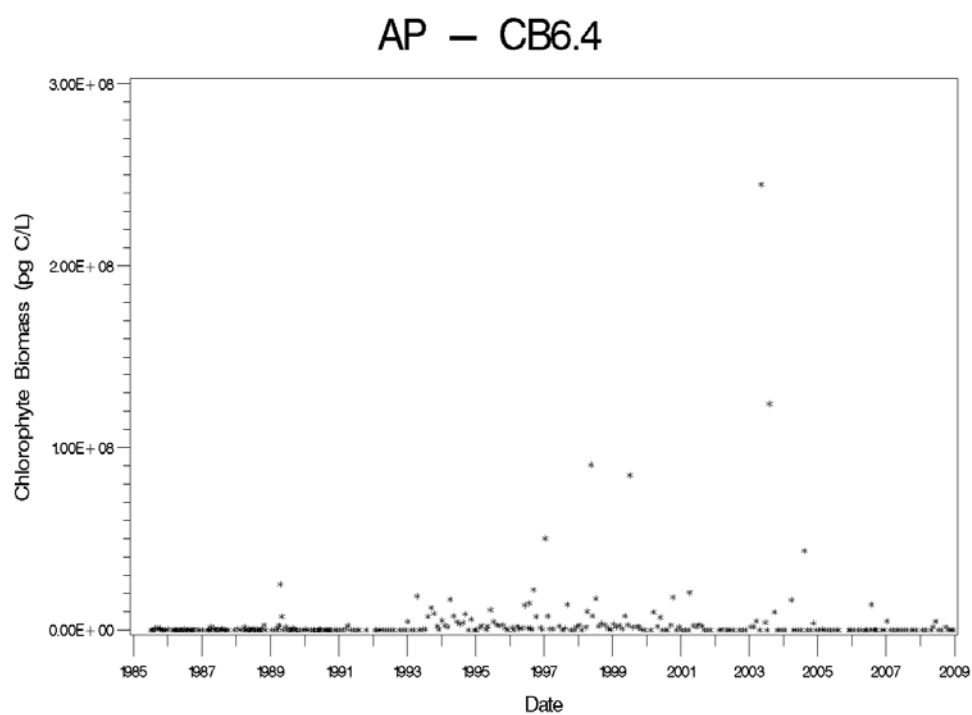


Figure 129. Plot of above pycnocline chlorophyte biomass against time at station CB6.4 for the period of 1985 through 2008.

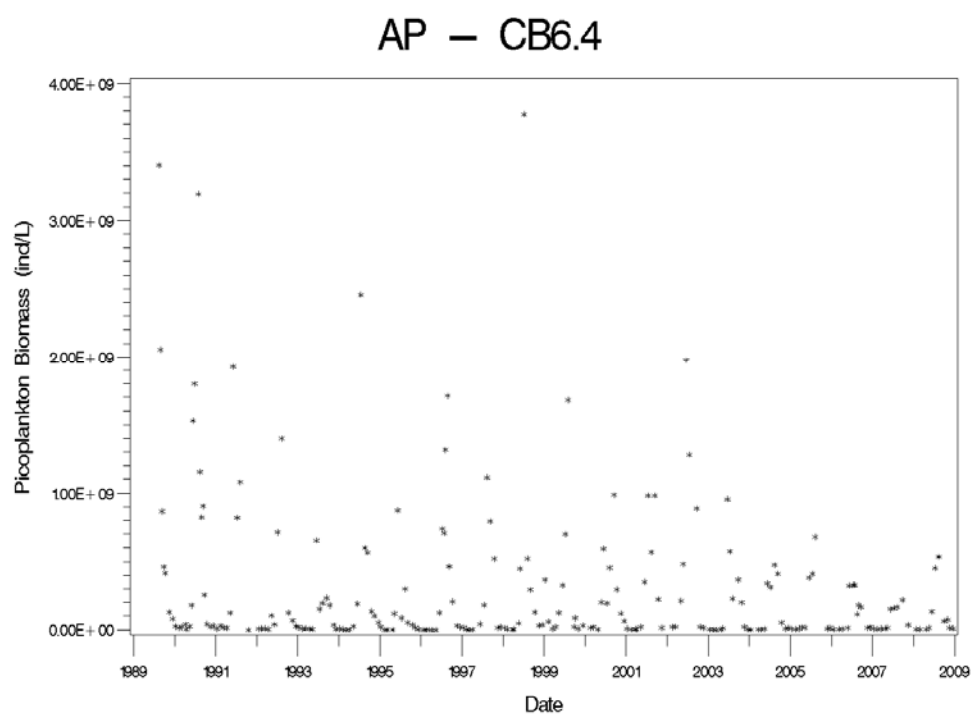


Figure 130. Plot of above pycnocline picoplankton biomass against time at station CB6.4 for the period of 1985 through 2008.

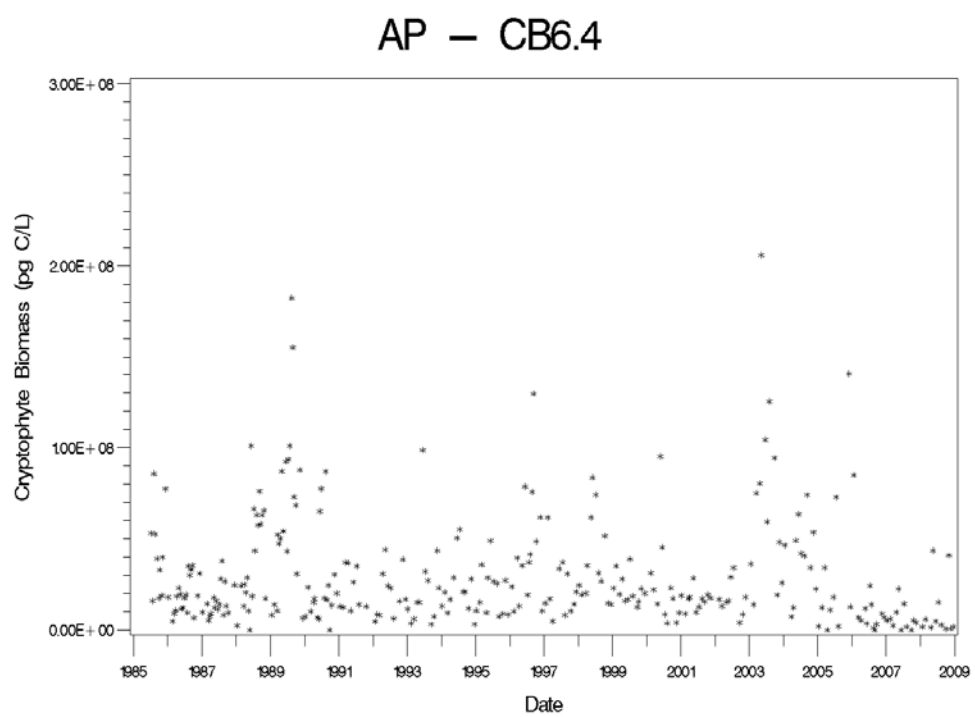


Figure 131. Plot of above pycnocline cryptophyte biomass at station CB6.4 for the period of 1985 through 2008.

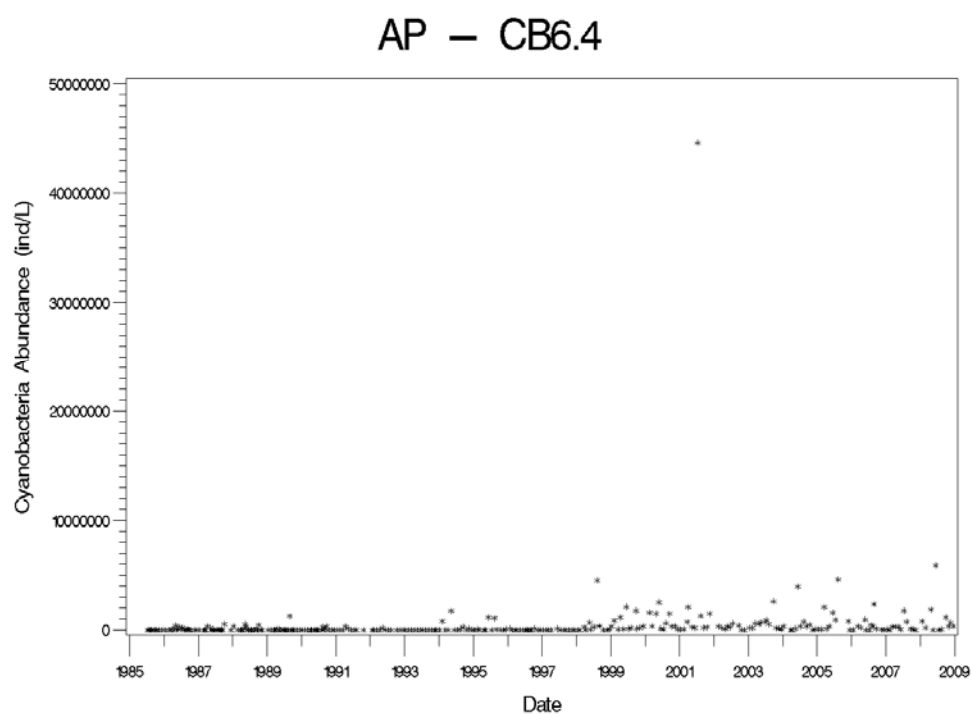


Figure 132. Plot of above pycnocline cyanophyte abundance at station CB6.4 for the period of 1985 through 2008.

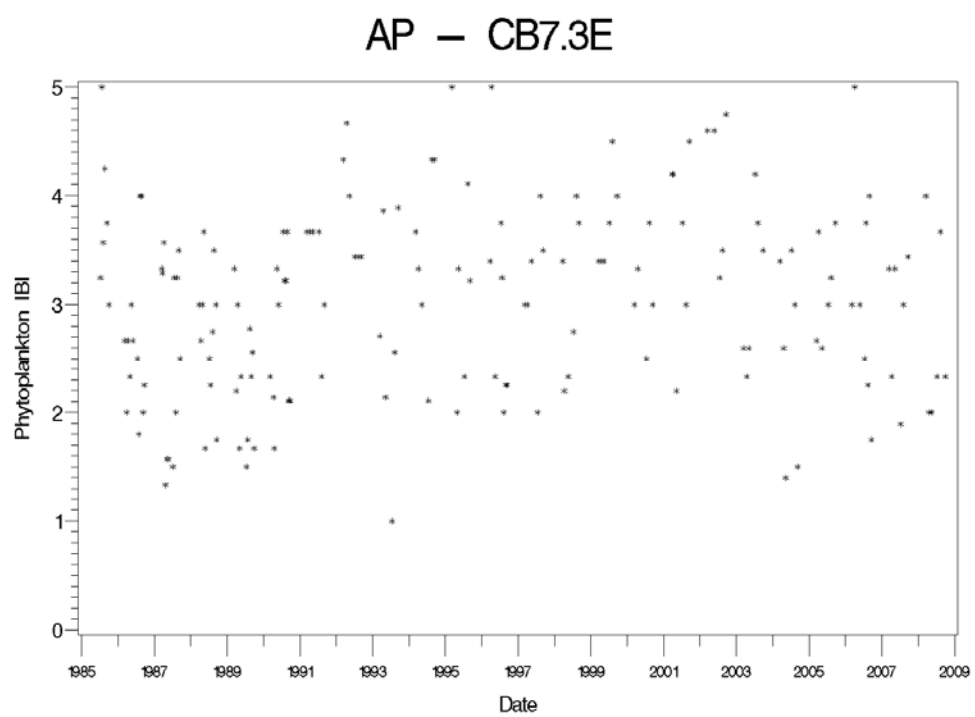


Figure 133. Plot of above pycnocline phytoplankton IBI scores against time at station CB7.3E for the period of 1985 through 2008.

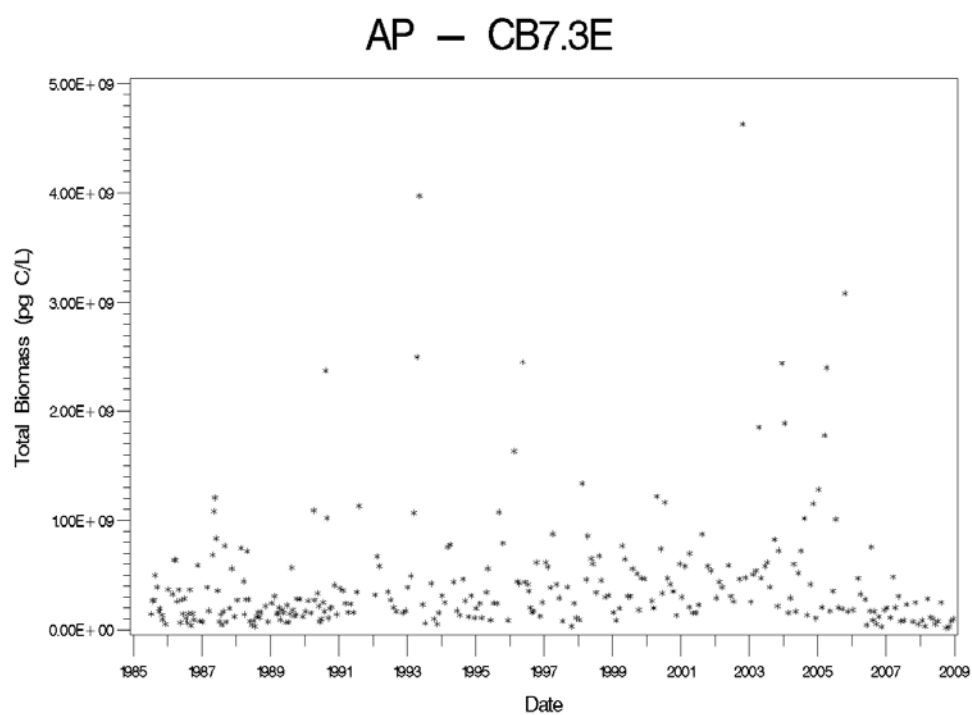


Figure 134. Plot of above pycnocline total phytoplankton biomass against time at station CB7.3E for the period of 1985 through 2008.

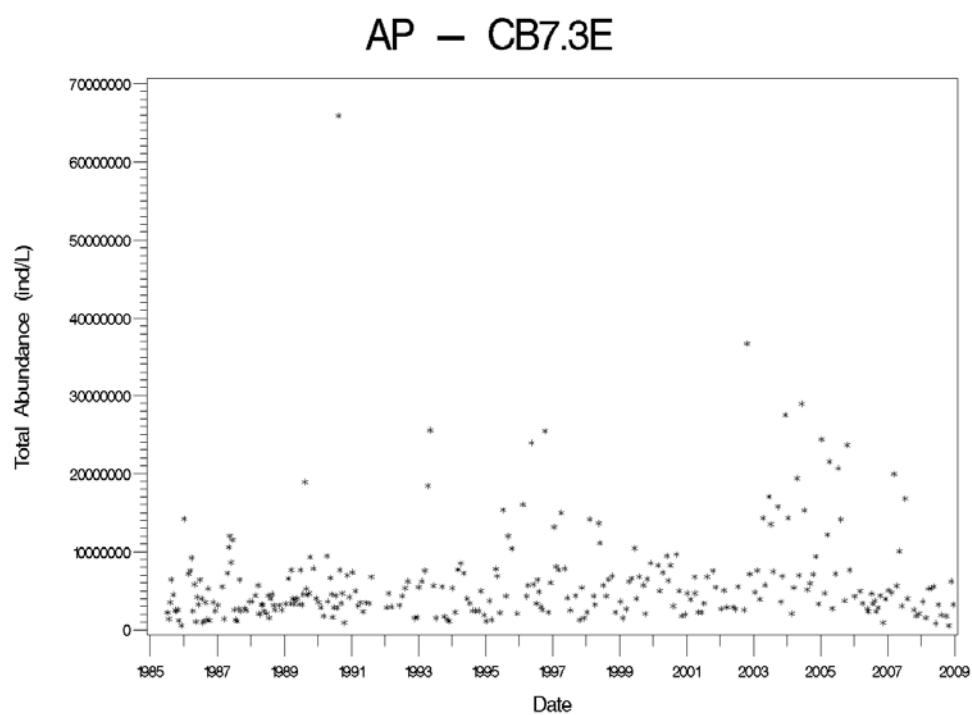


Figure 135. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB7.3E for the period of 1985 through 2008.

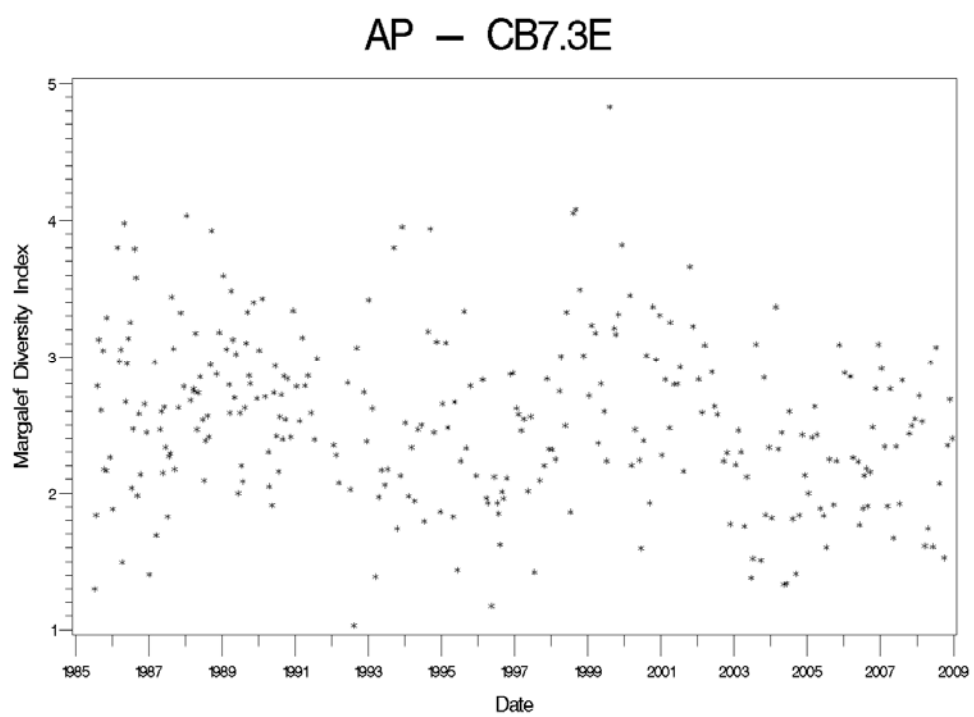


Figure 136. Plot of above pycnocline Margalef diversity index against time at station CB7.3E for the period of 1985 through 2008.

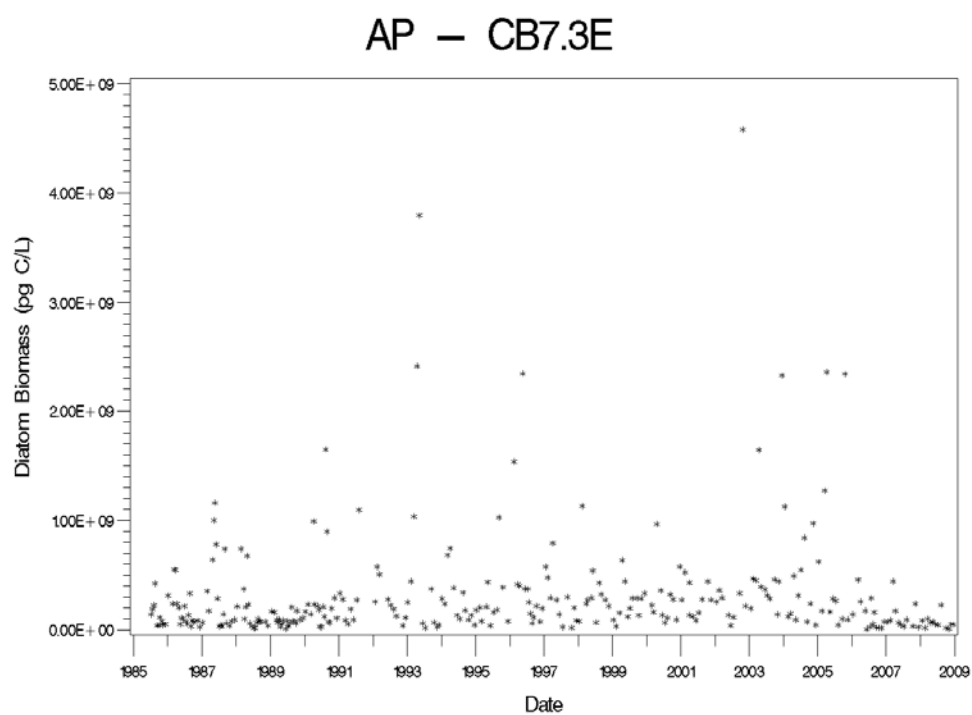


Figure 137. Plot of above pycnocline diatom biomass against time at station CB7.3E for the period of 1985 through 2008.

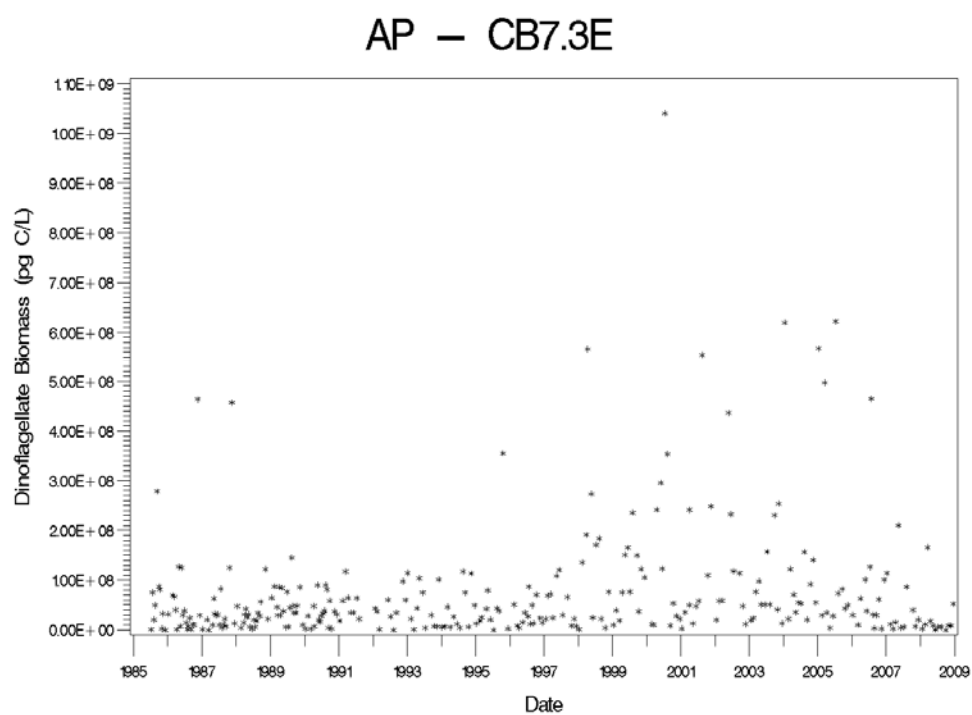


Figure 138. Plot of above pycnocline dinoflagellate biomass against time at station CB7.3E for the period of 1985 through 2008.

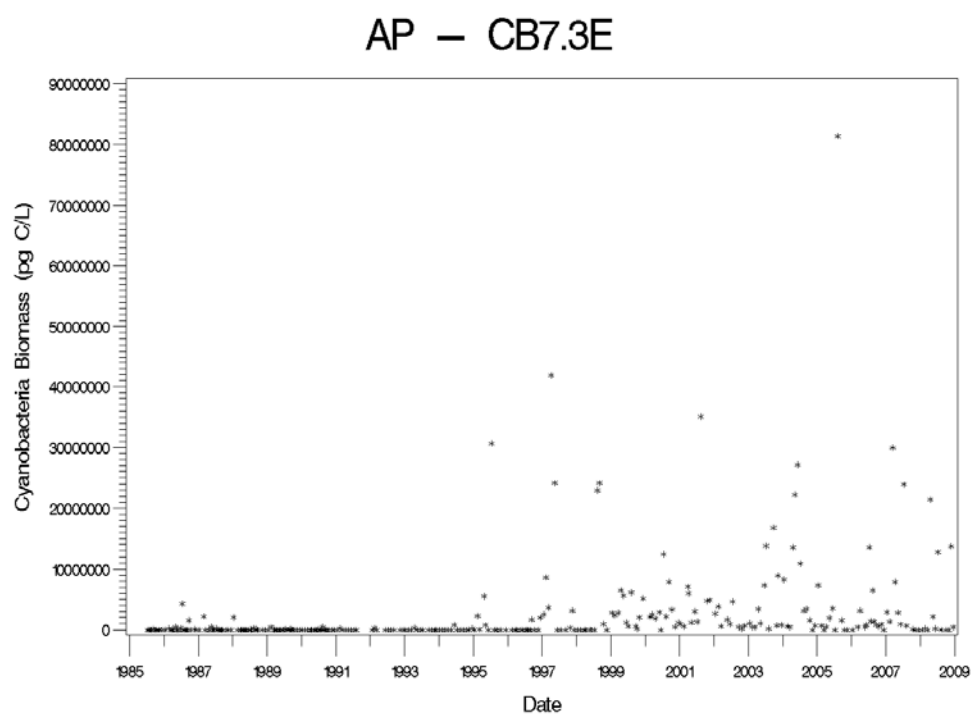


Figure 139. Plot of above pycnocline cyanobacteria biomass against time at station CB7.3E for the period of 1985 through 2008.

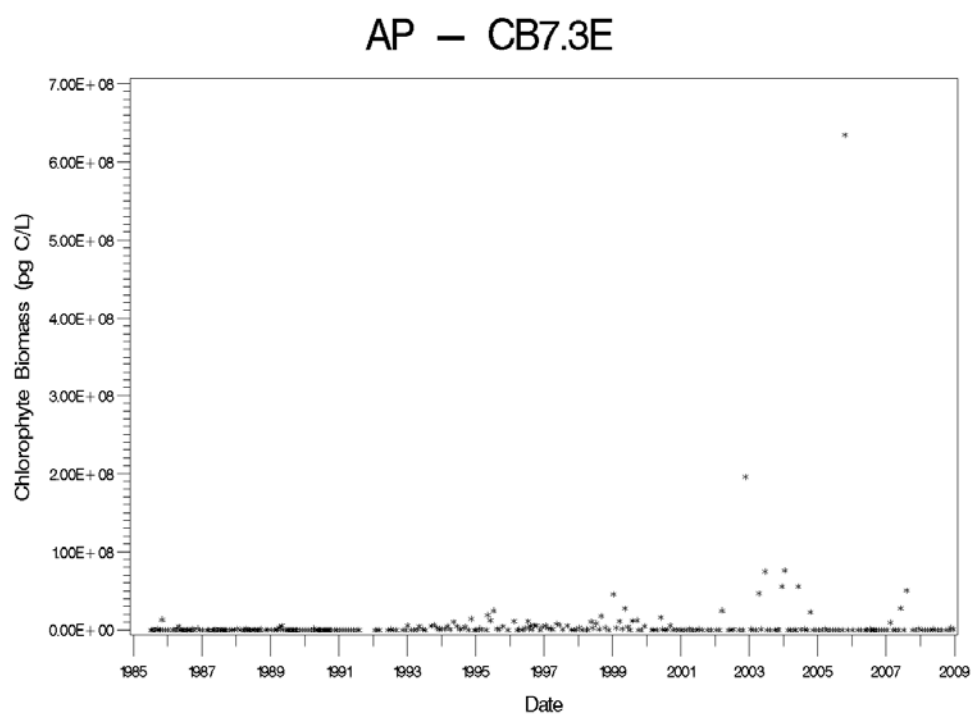


Figure 140. Plot of above pycnocline chlorophyte biomass against time at station CB7.3E for the period of 1985 through 2008.

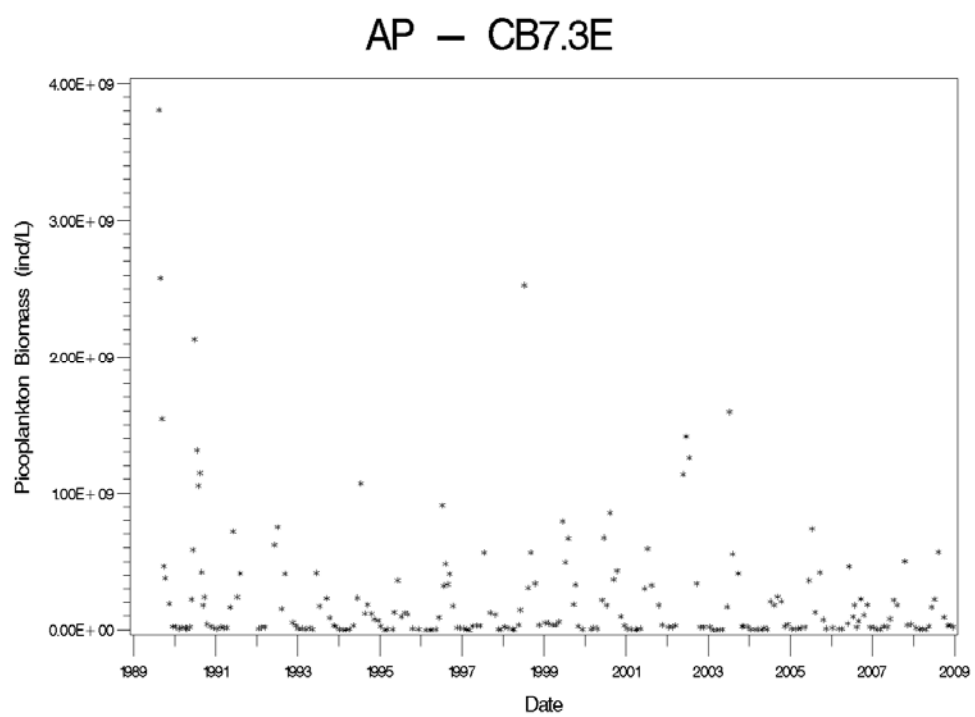


Figure 141. Plot of above pycnocline picoplankton biomass against time at station CB7.3E for the period of 1985 through 2008.

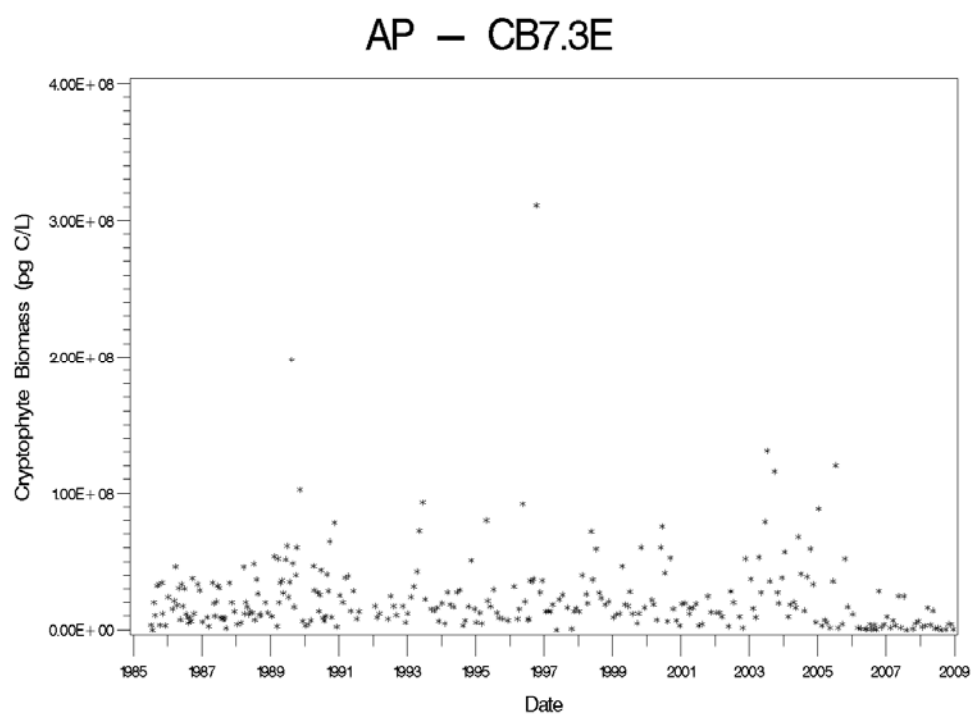


Figure 142. Plot of above pycnocline cryptophyte biomass at station CB7.3E for the period of 1985 through 2008.

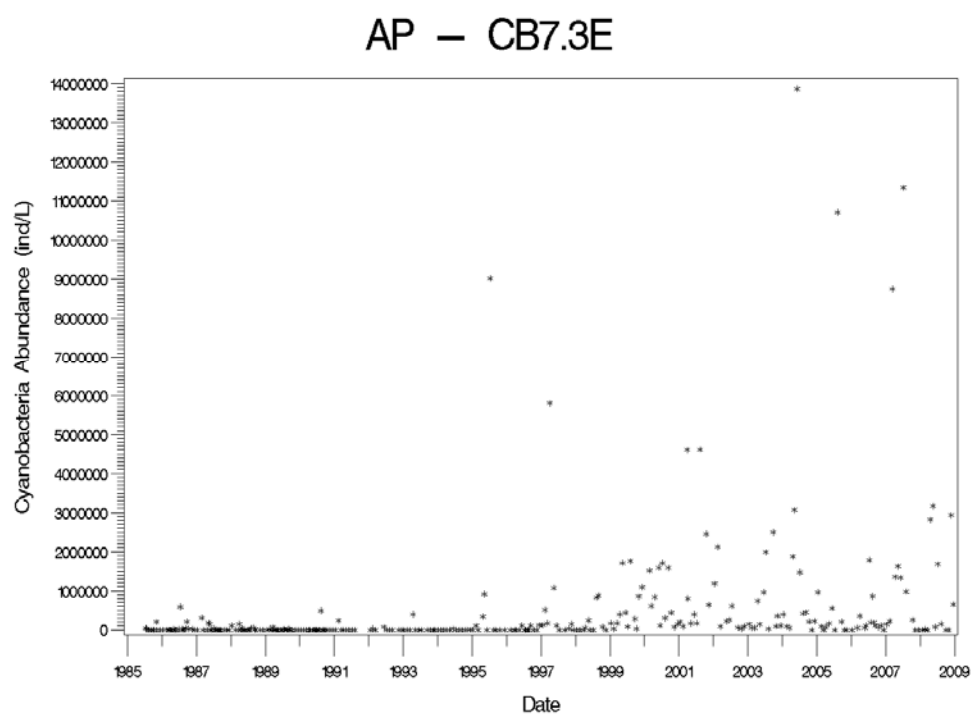


Figure 143. Plot of above pycnocline cyanophyte abundance at station CB7.3E for the period of 1985 through 2008.

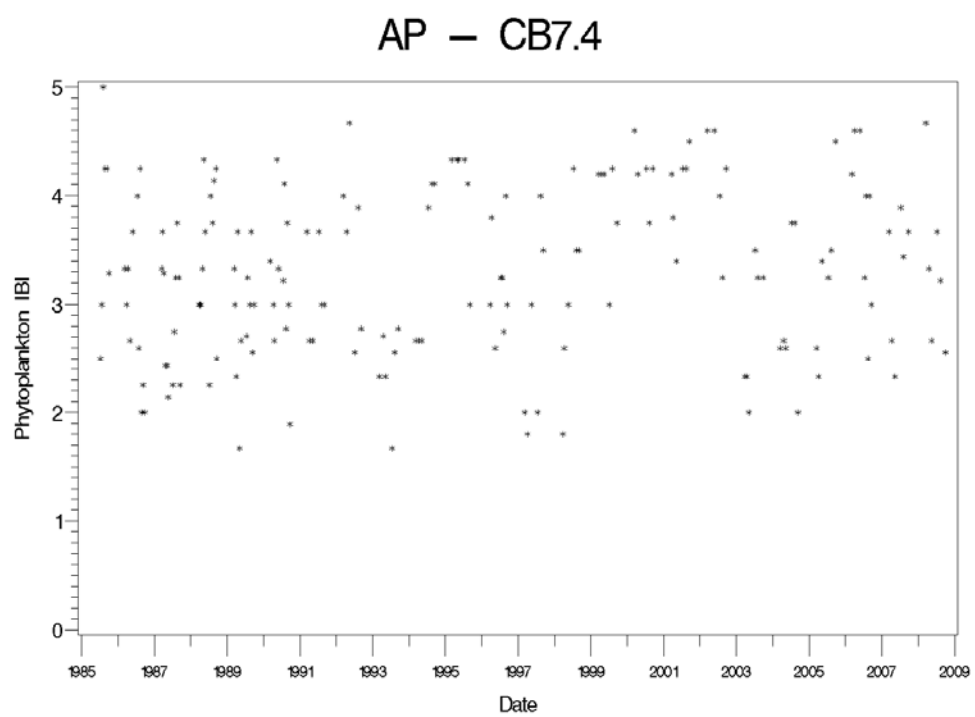


Figure 144. Plot of above pycnocline phytoplankton IBI scores against time at station CB7.4 for the period of 1985 through 2008.

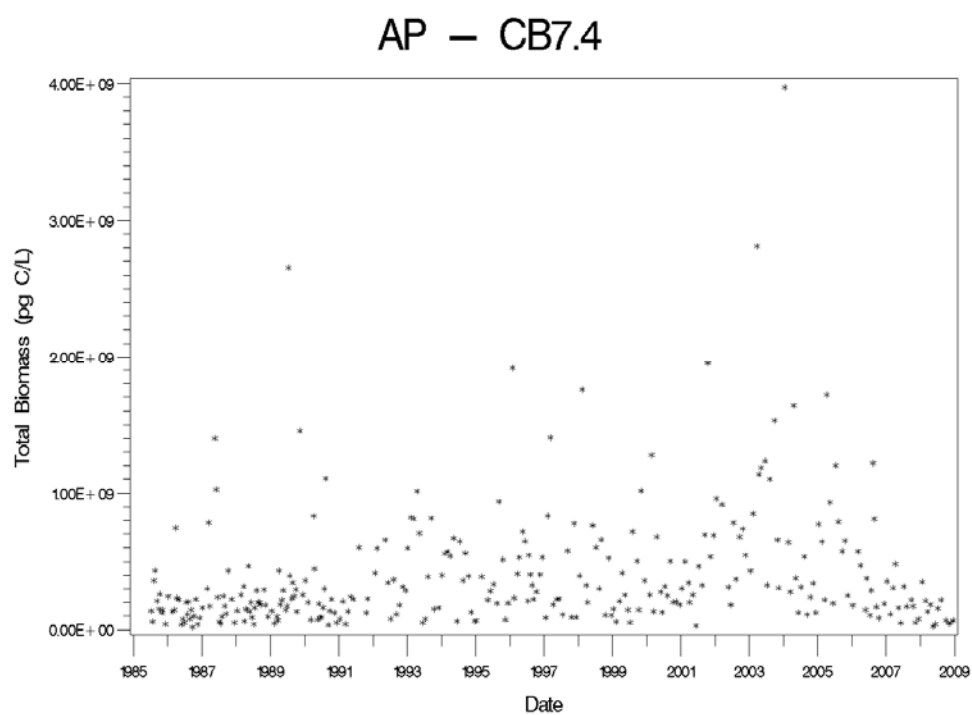


Figure 145. Plot of above pycnocline total phytoplankton biomass against time at station CB7.4 for the period of 1985 through 2008.

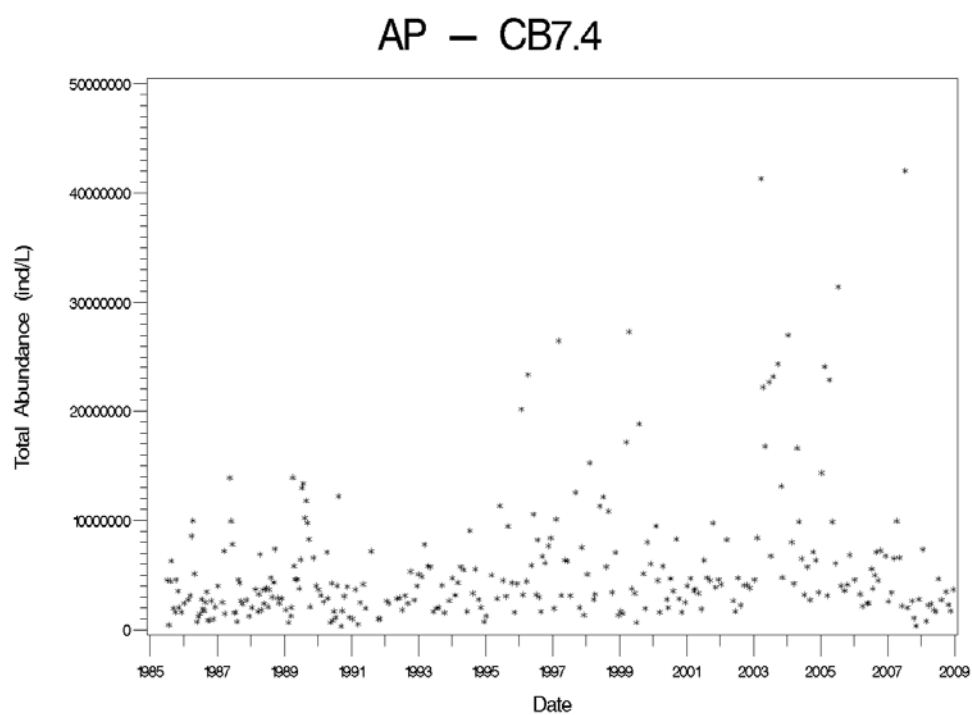


Figure 146. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB7.4 for the period of 1985 through 2008.

AP – CB7.4

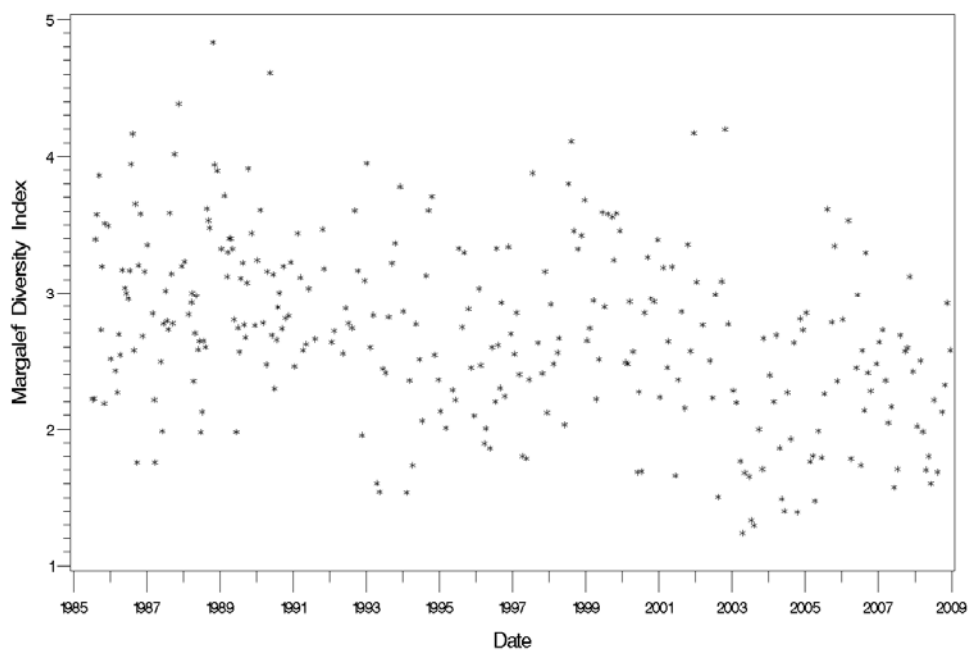


Figure 147. Plot of above pycnocline Margalef diversity index against time at station CB7.4 for the period of 1985 through 2008.

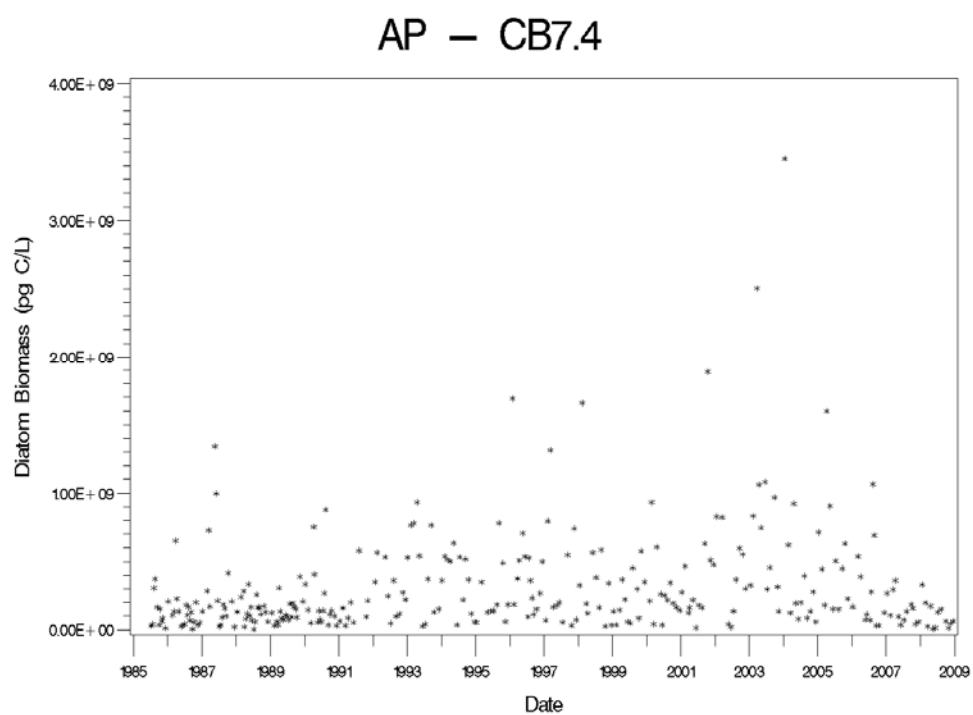


Figure 148. Plot of above pycnocline diatom biomass against time at station CB7.4 for the period of 1985 through 2008.

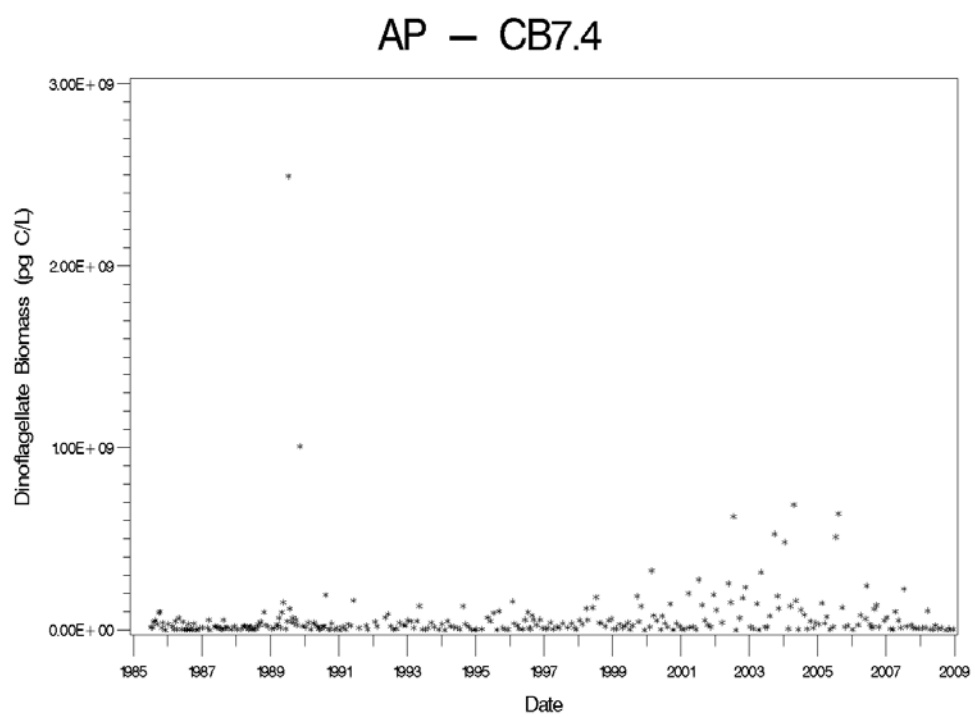


Figure 149. Plot of above pycnocline dinoflagellate biomass against time at station CB7.4 for the period of 1985 through 2008.

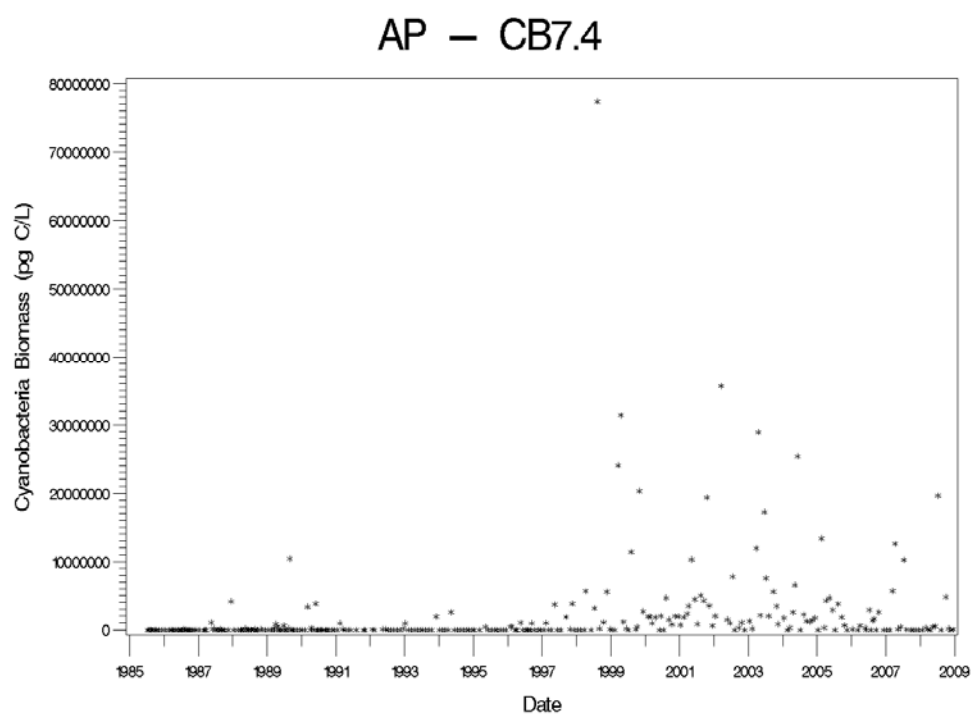


Figure 150. Plot of above pycnocline cyanobacteria biomass against time at station CB7.4 for the period of 1985 through 2008.

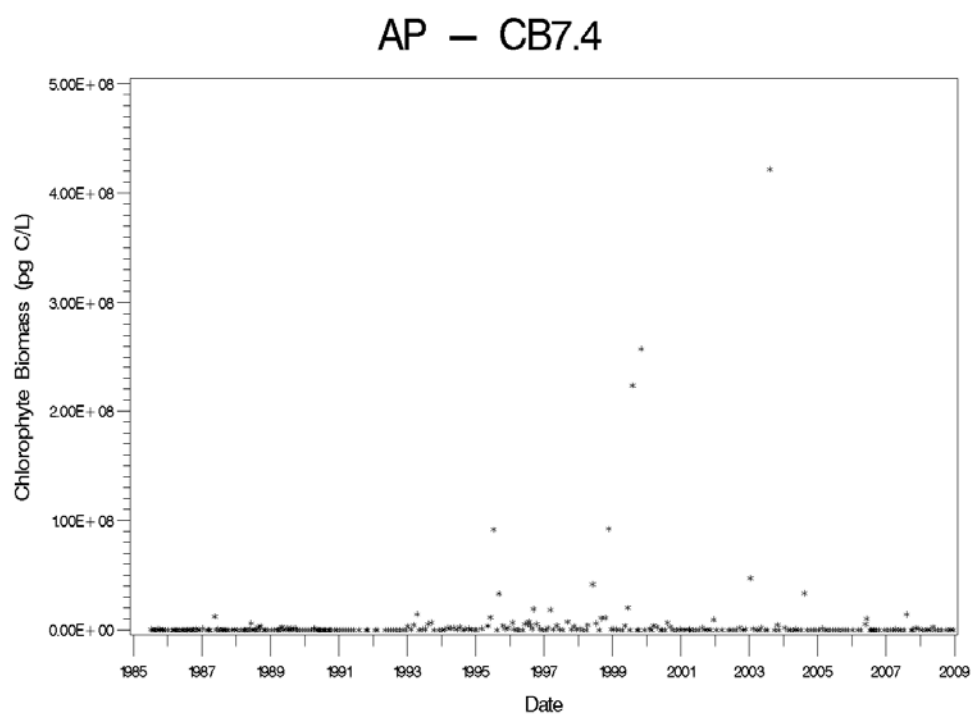


Figure 151. Plot of above pycnocline chlorophyte biomass against time at station CB7.4 for the period of 1985 through 2008.

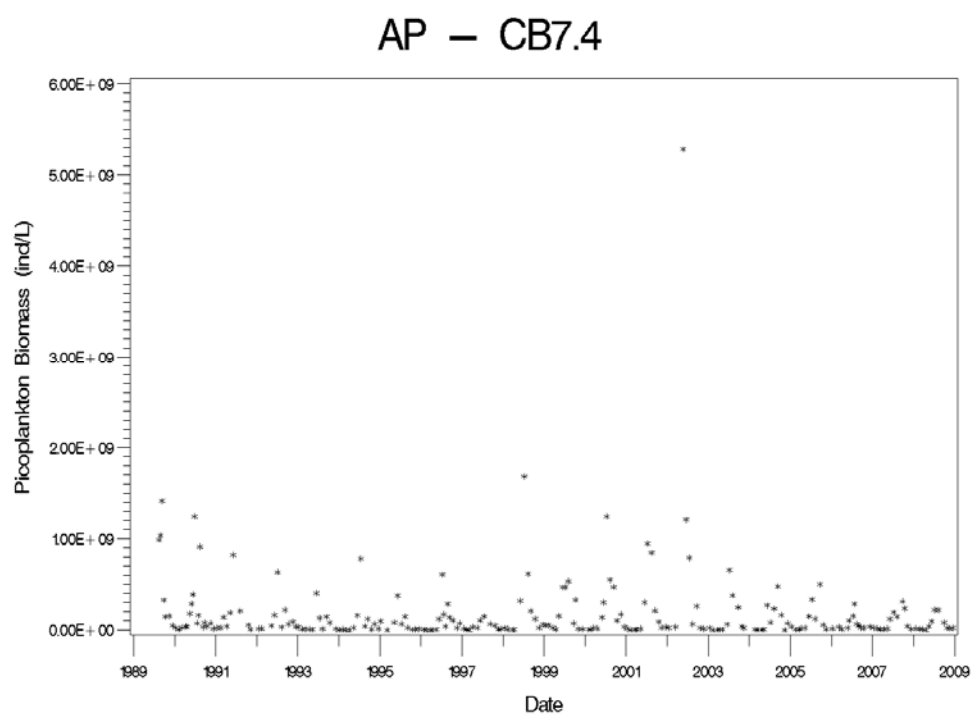


Figure 152. Plot of above pycnocline picoplankton biomass against time at station CB7.4 for the period of 1985 through 2008.

AP – CB7.4

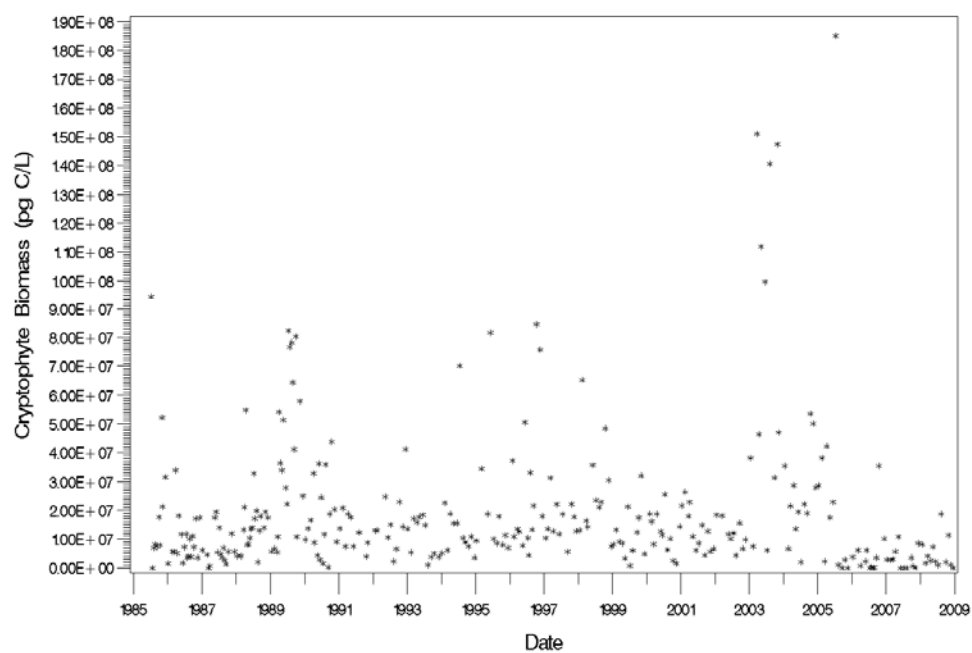


Figure 153. Plot of above pycnocline cryptophyte biomass at station CB7.4 for the period of 1985 through 2008.

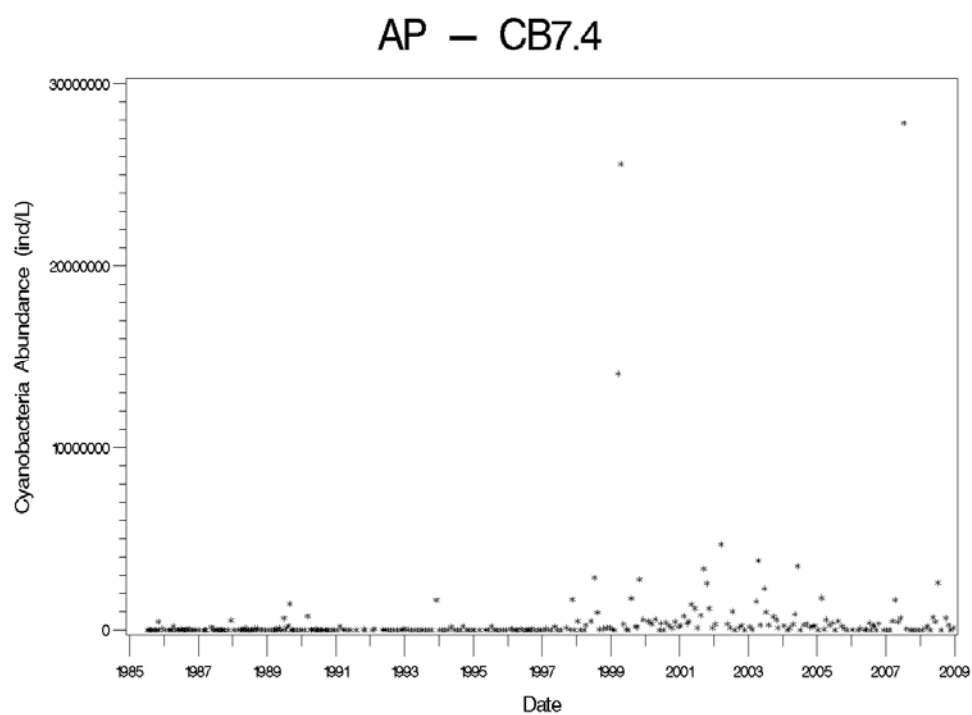


Figure 154. Plot of above pycnocline cyanophyte abundance at station CB7.4 for the period of 1985 through 2008.