# Appendix F - Scatterplots of phytoplankton bioindicators

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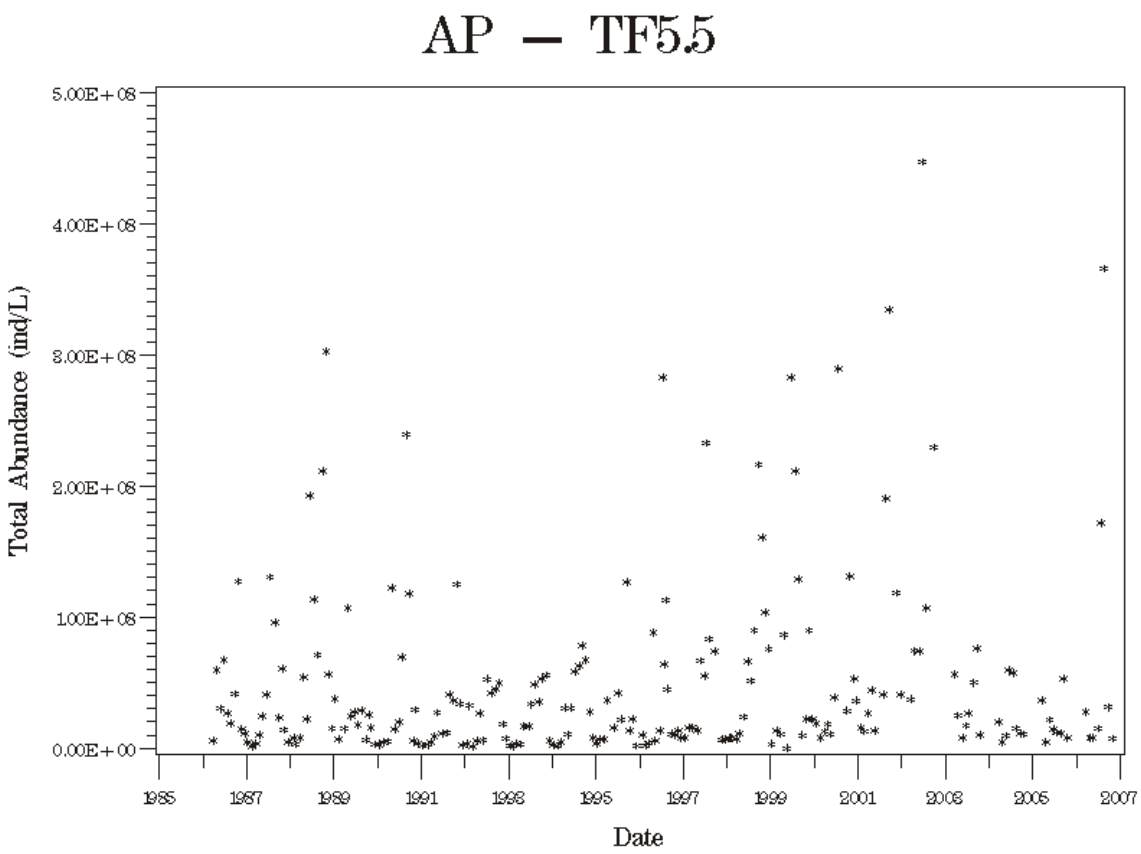


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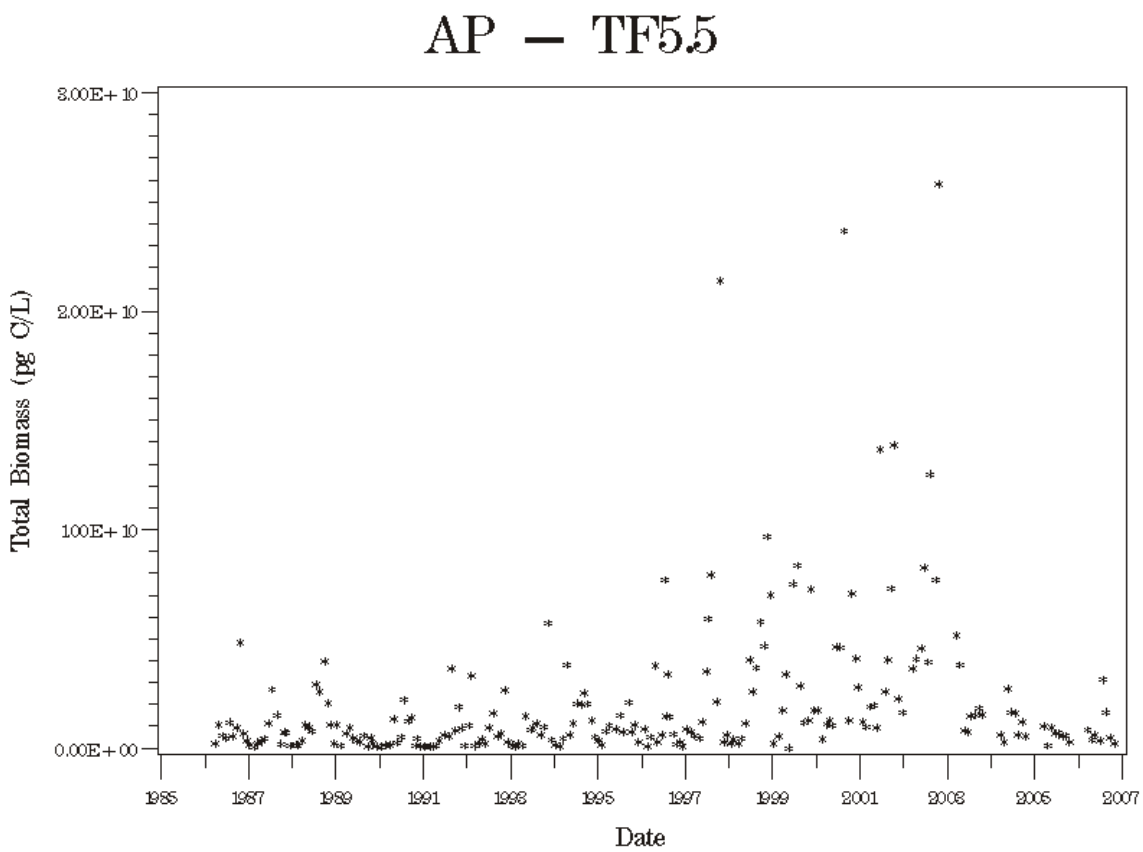


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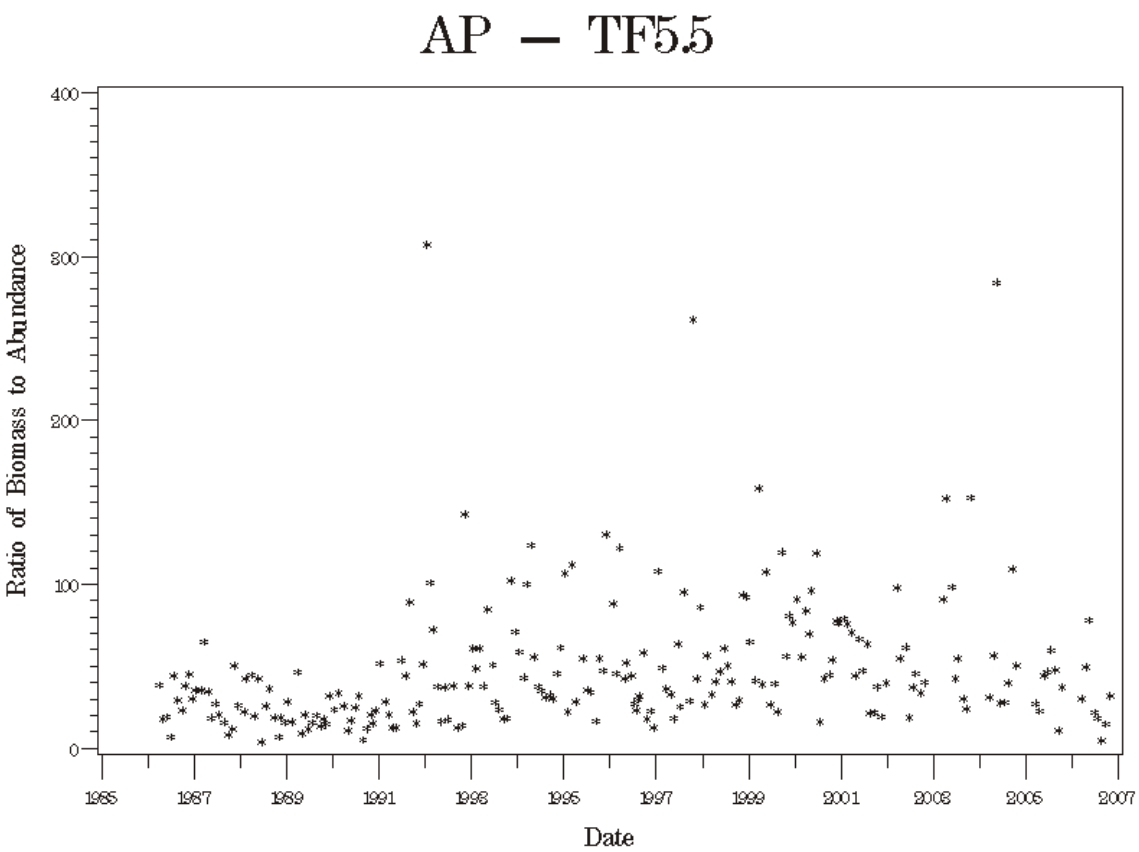


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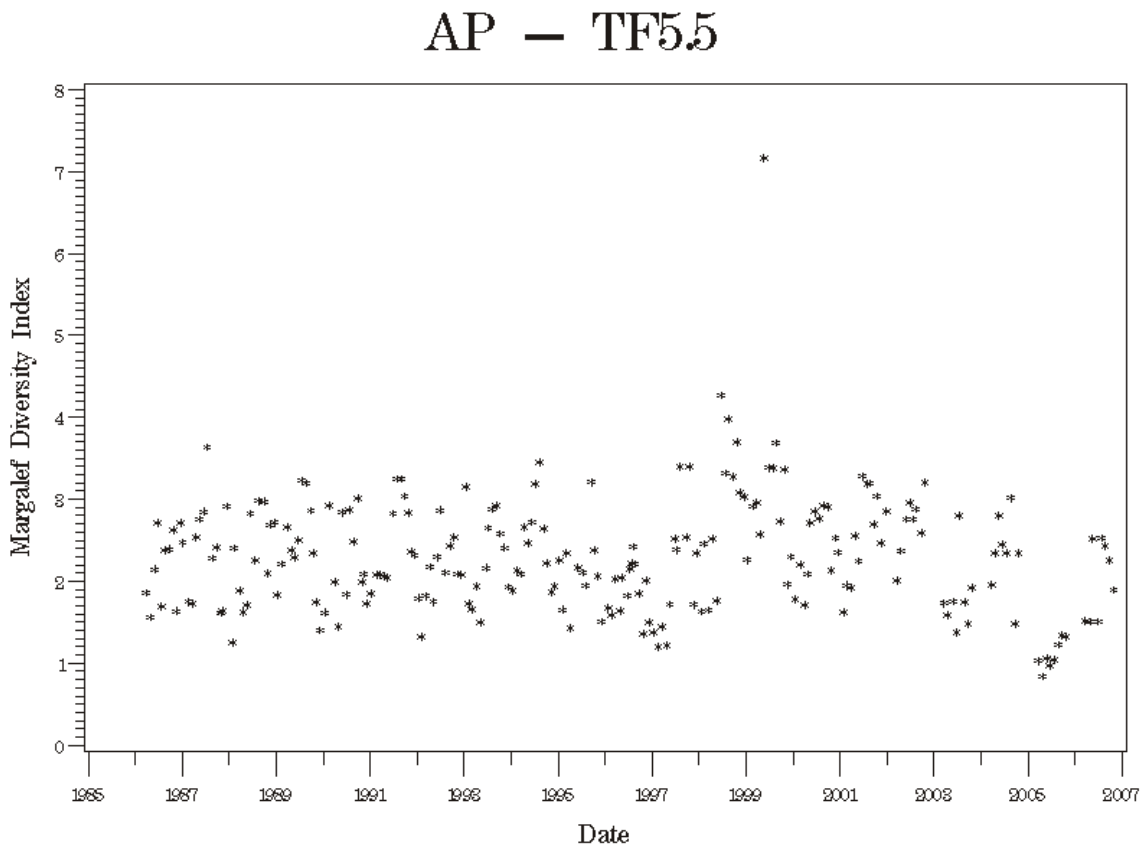


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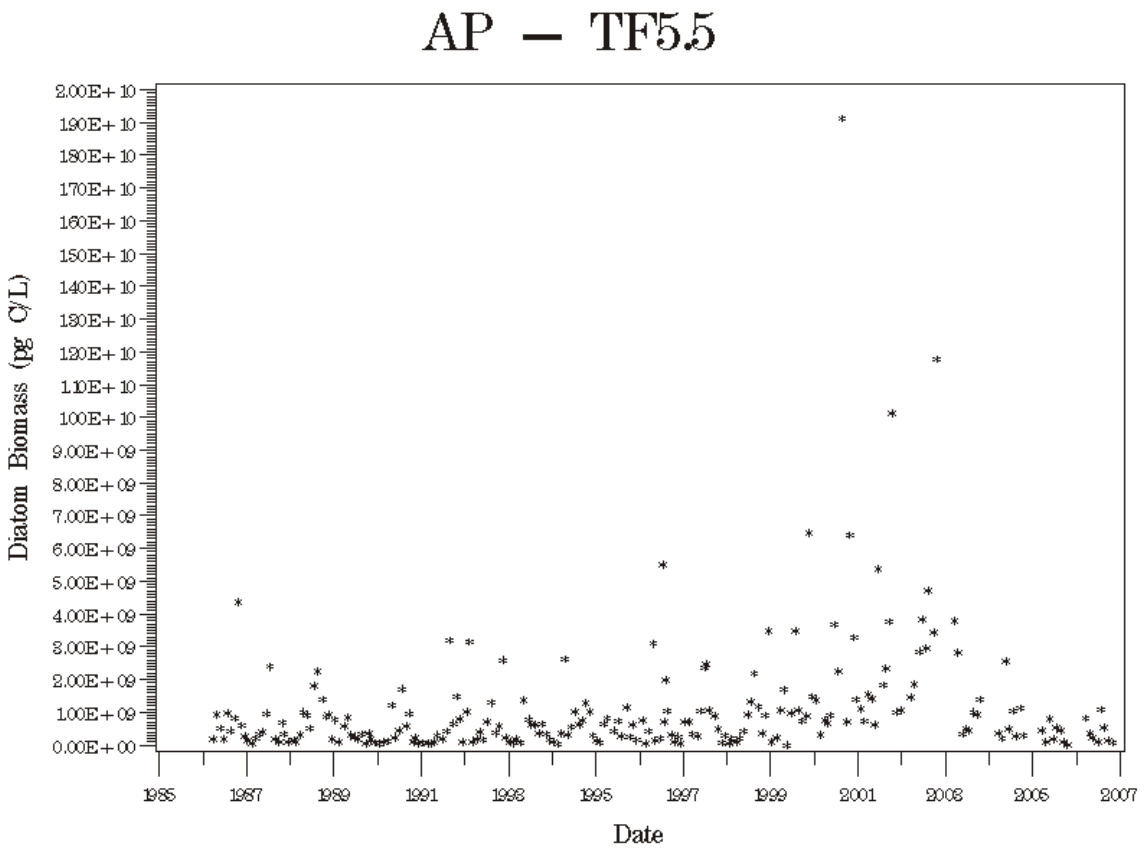


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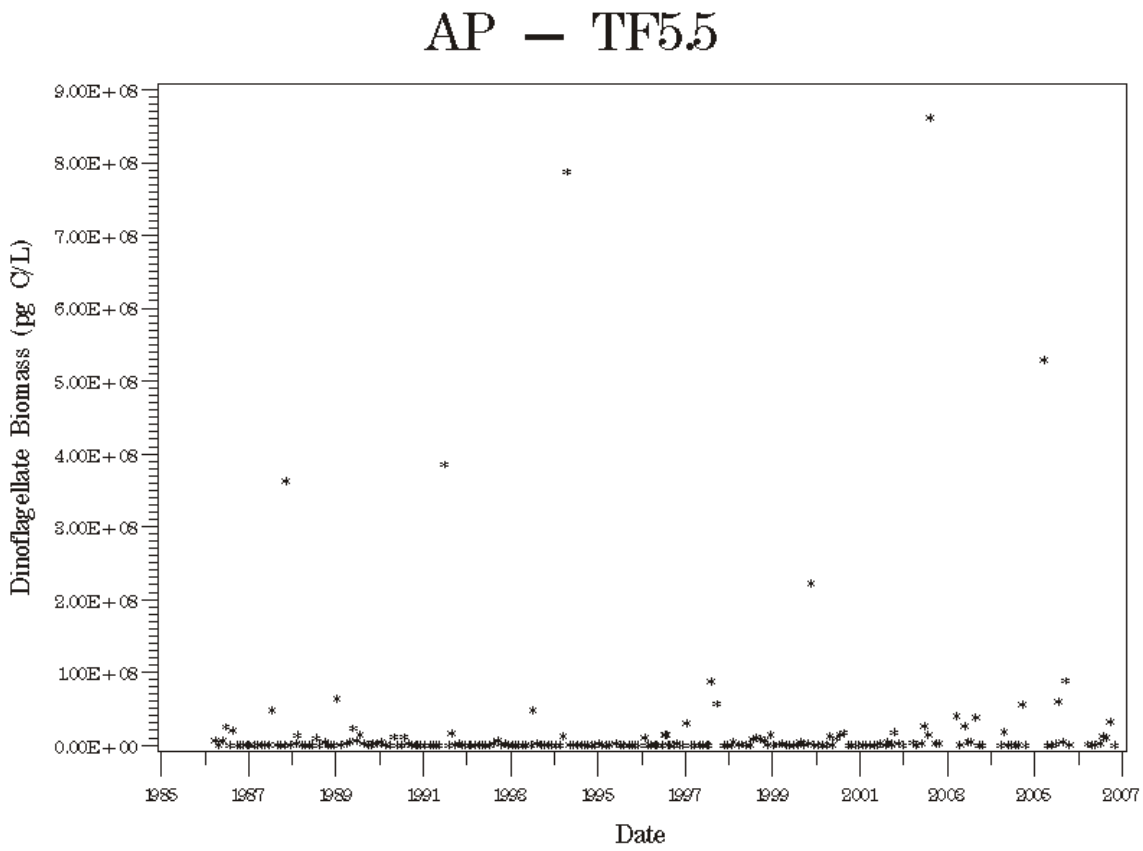


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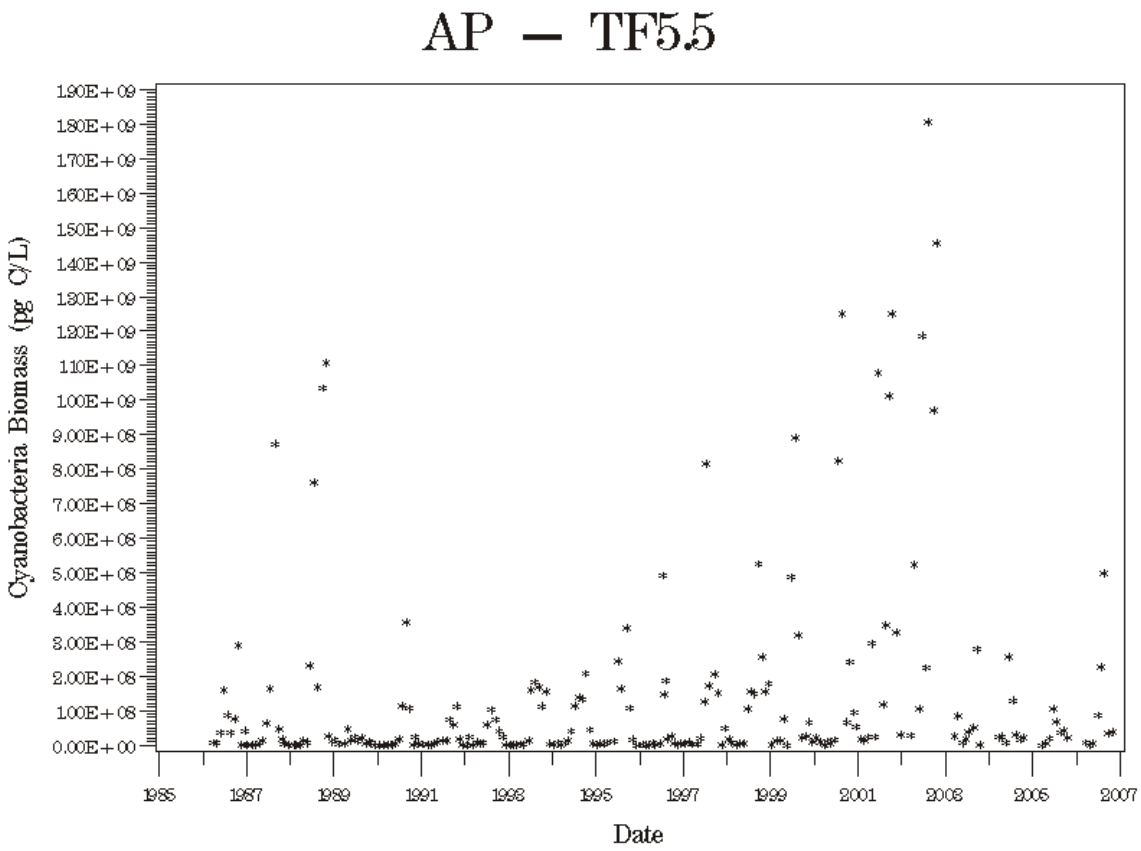


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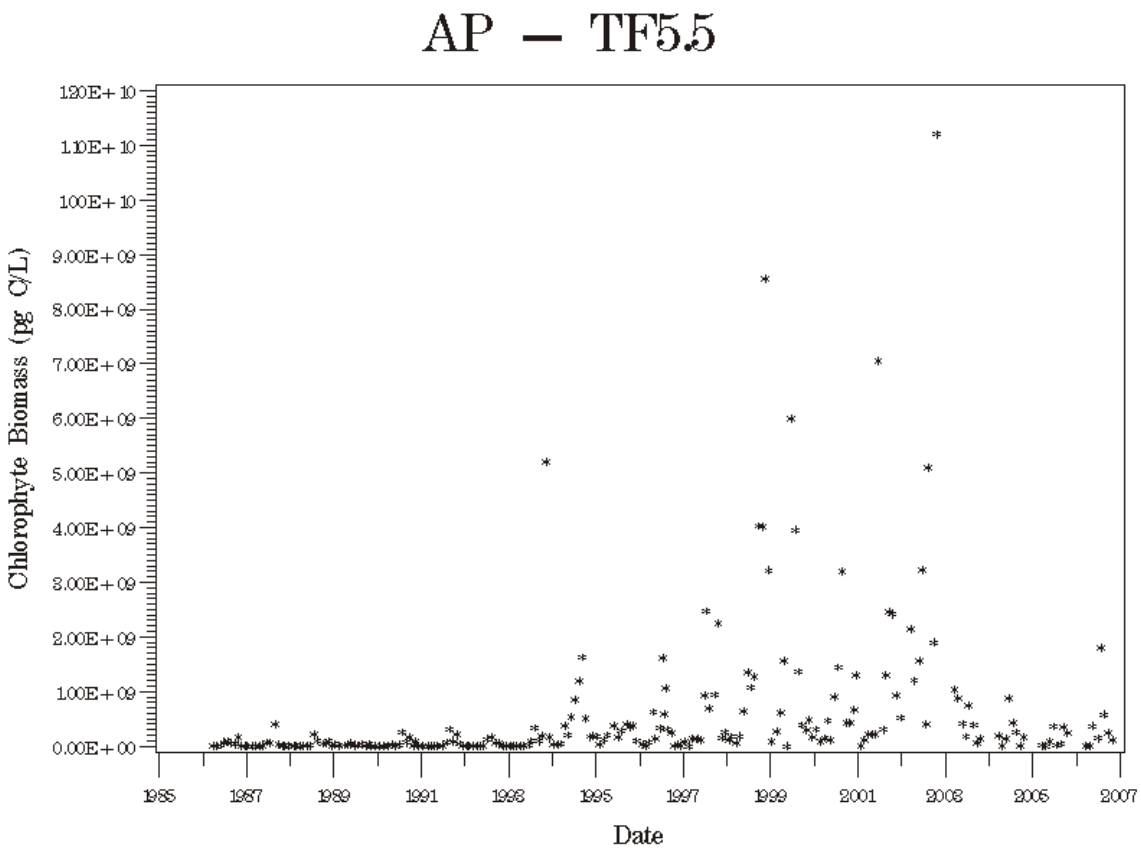


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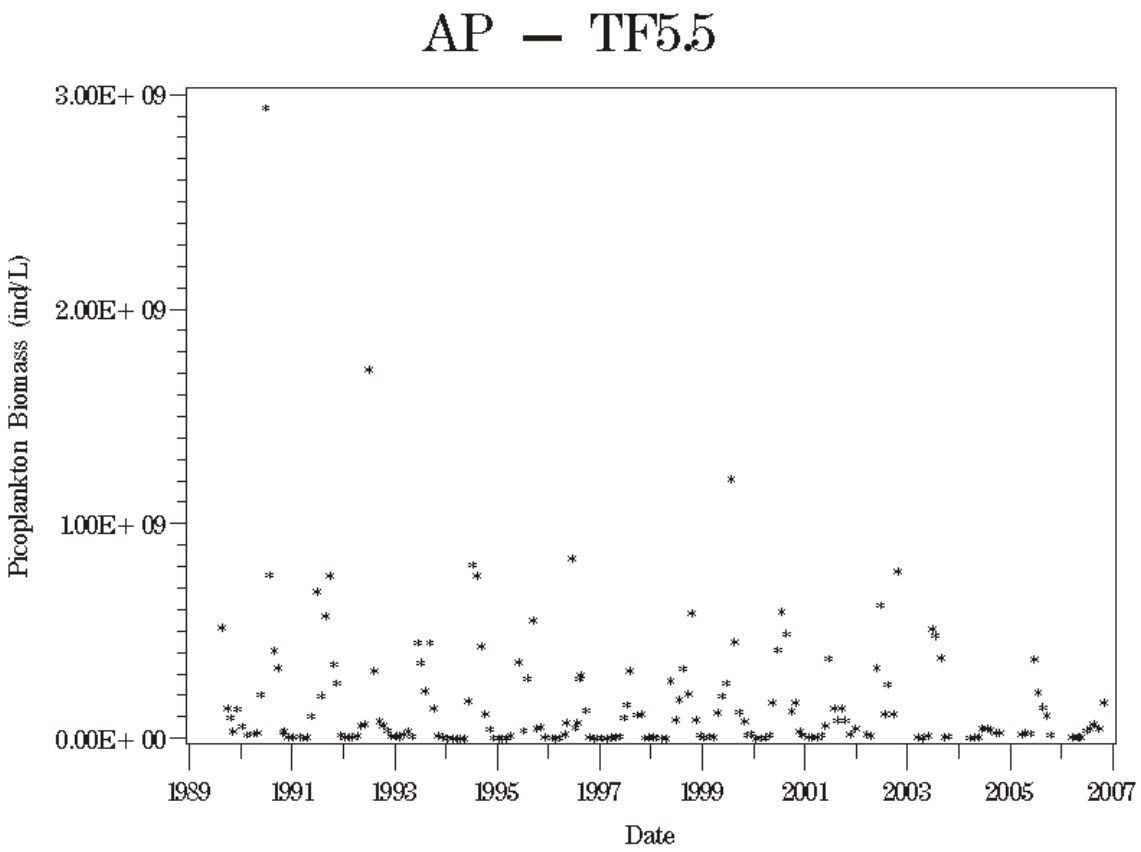


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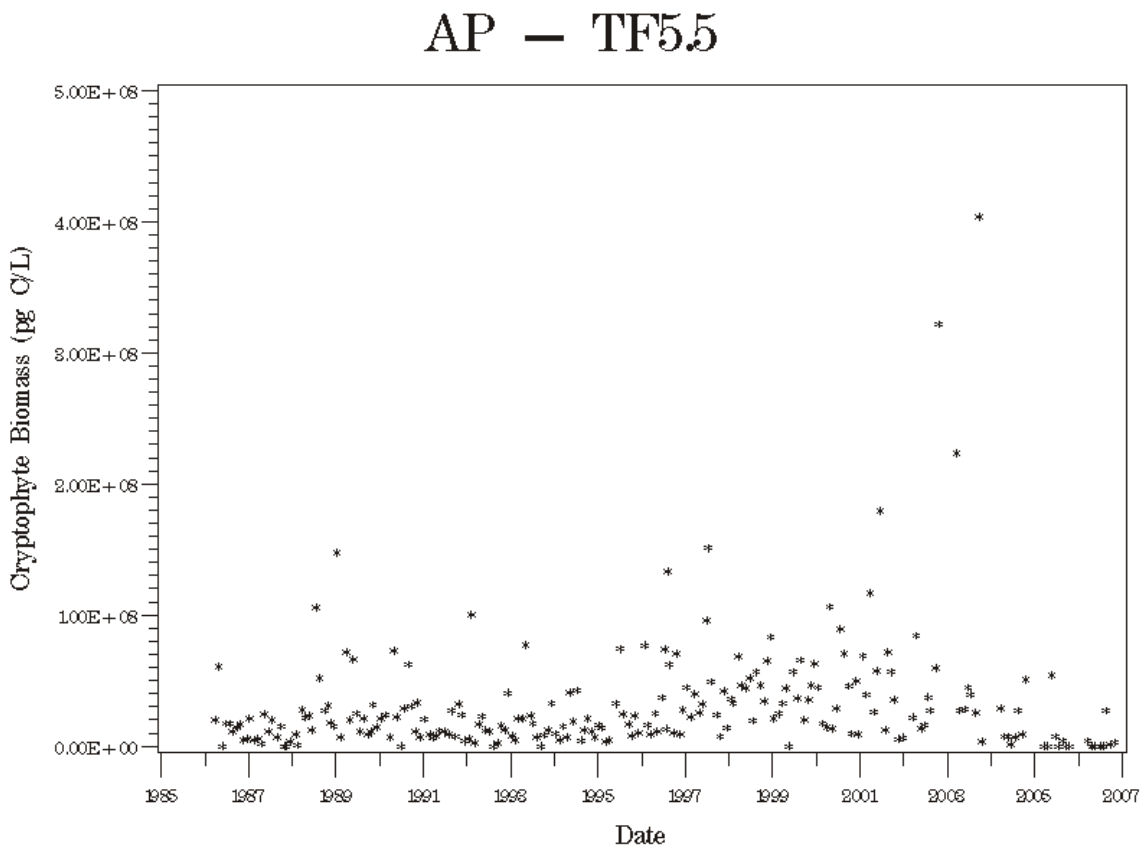


Figure Fl0. Plot of above pycnocline cryptophyte biomass at station TF5.5 for the period of 1985 through 2005.

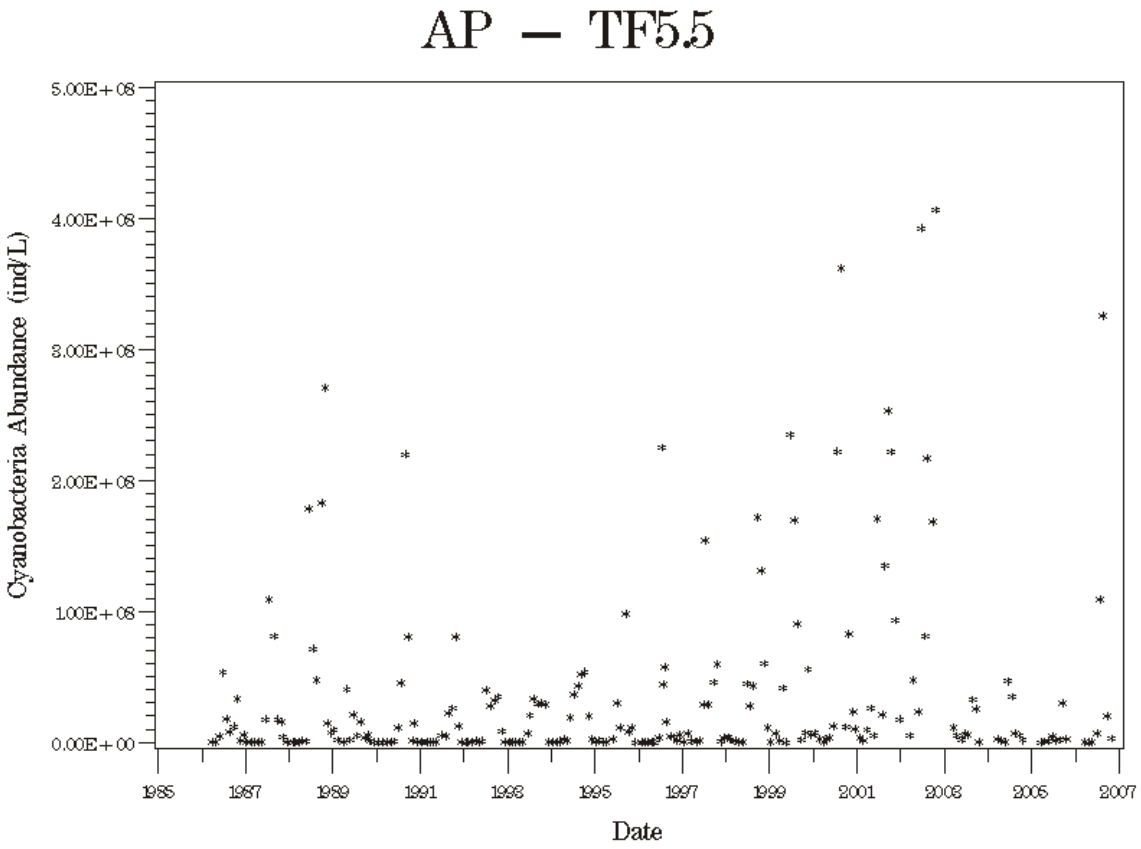


Figure F11. Plot of above pycnocline cyanophyte abundance at station TF5.5 for the period of 1985 through 2005.

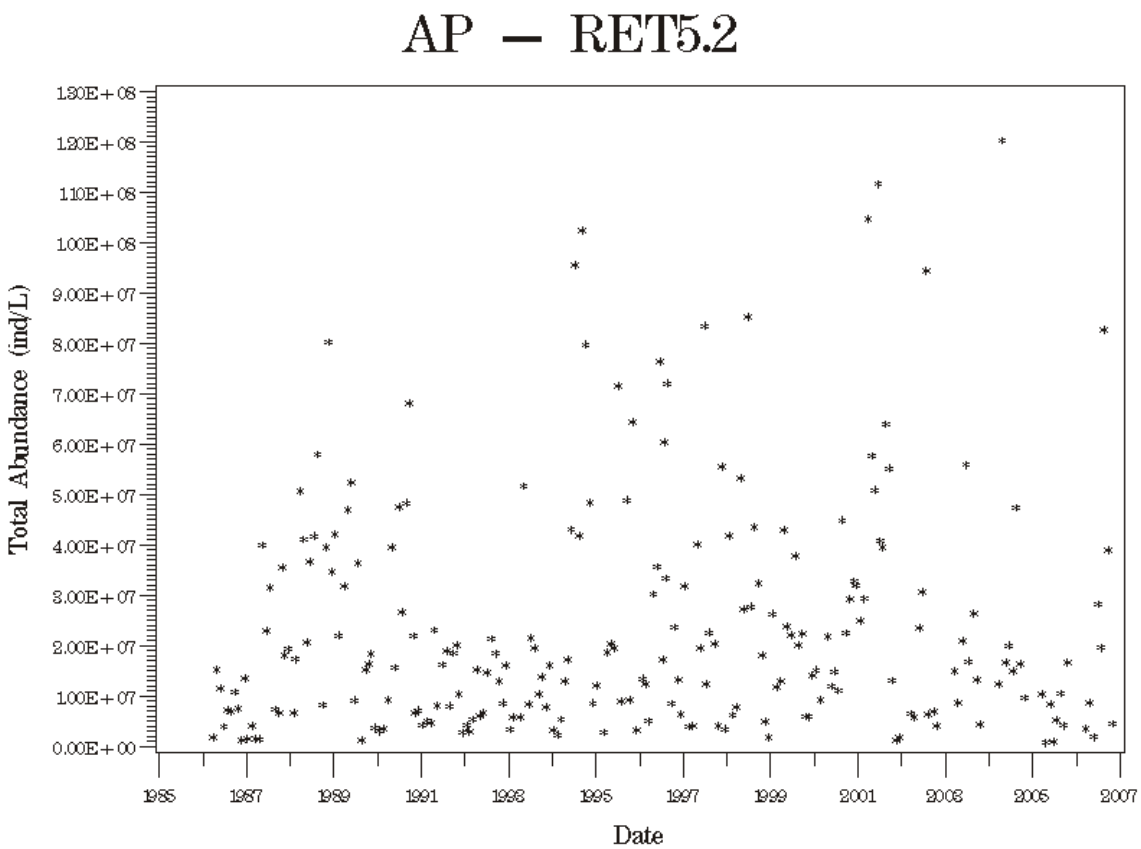


Figure F12. Plot of above pycnocline total phytoplankton abundance against time at station RET5.2 for the period of 1985 through 2005.

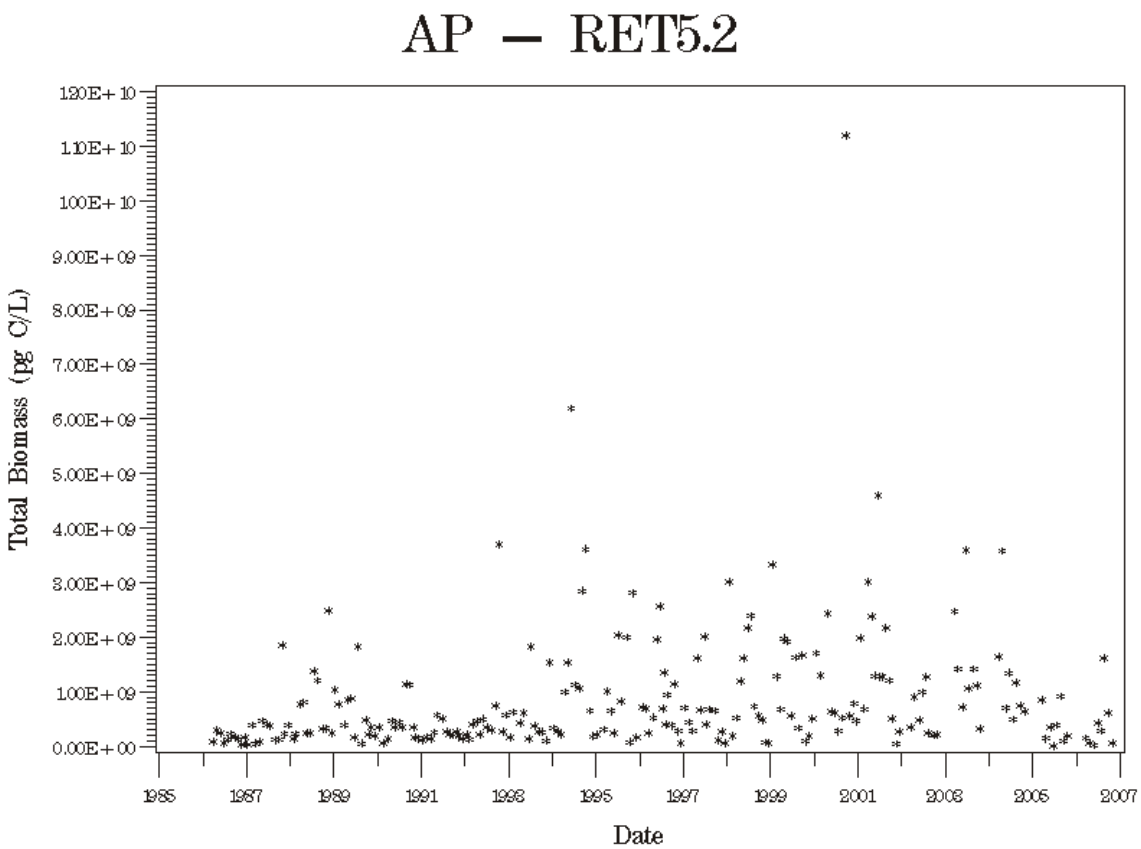


Figure F13. Plot of above pycnocline total phytoplankton biomass against time at station RET5.2 for the period of 1985 through 2005.

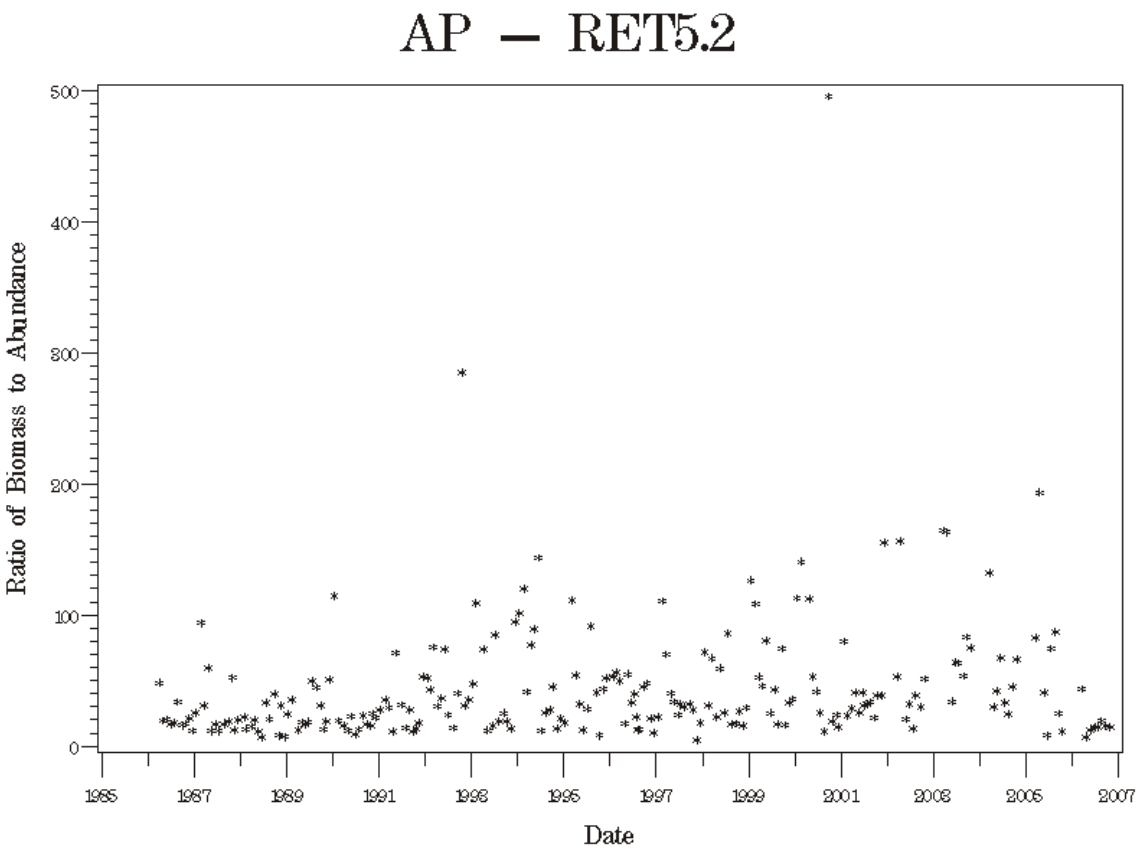


Figure F14. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET5.2 for the period of 1985 through 2005.

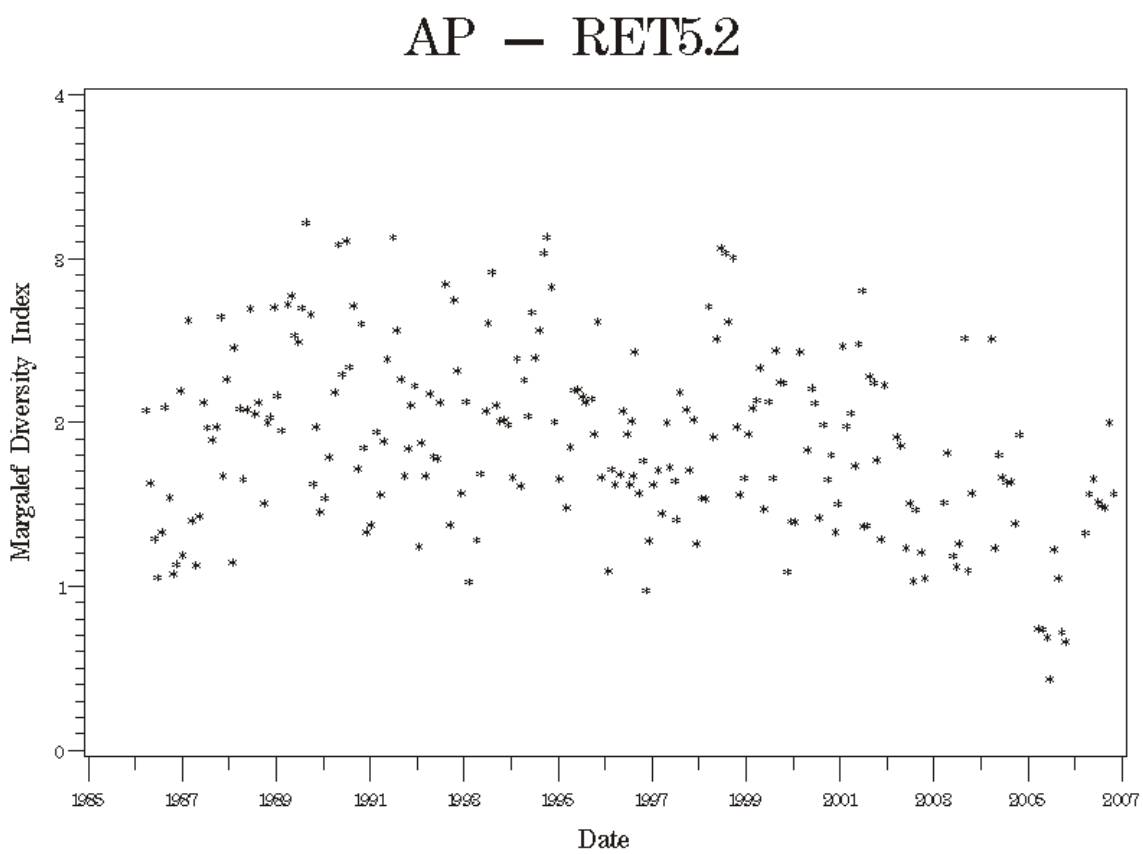


Figure F15. Plot of above pycnocline Margalef diversity index against time at station RET5.2 for the period of 1985 through 2005.

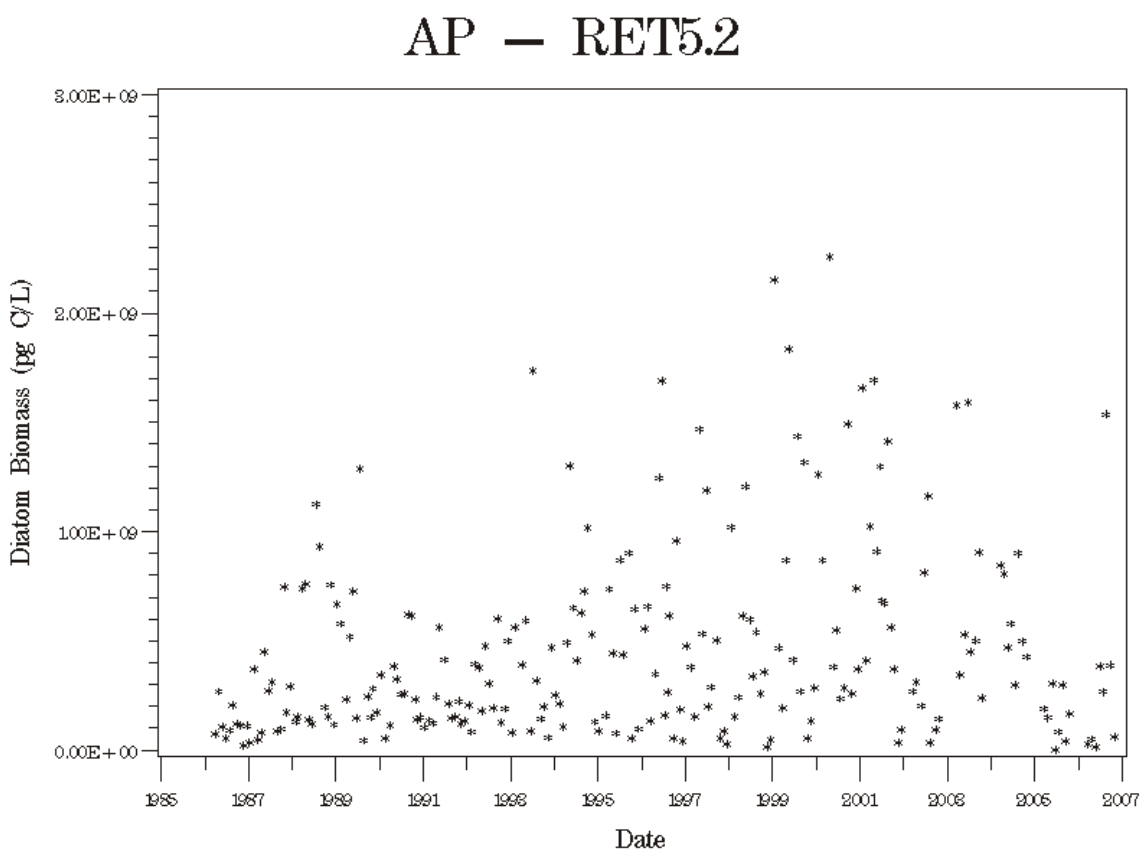


Figure F16. Plot of above pycnocline diatom biomass against time at station RET5.2 for the period of 1985 through 2005.

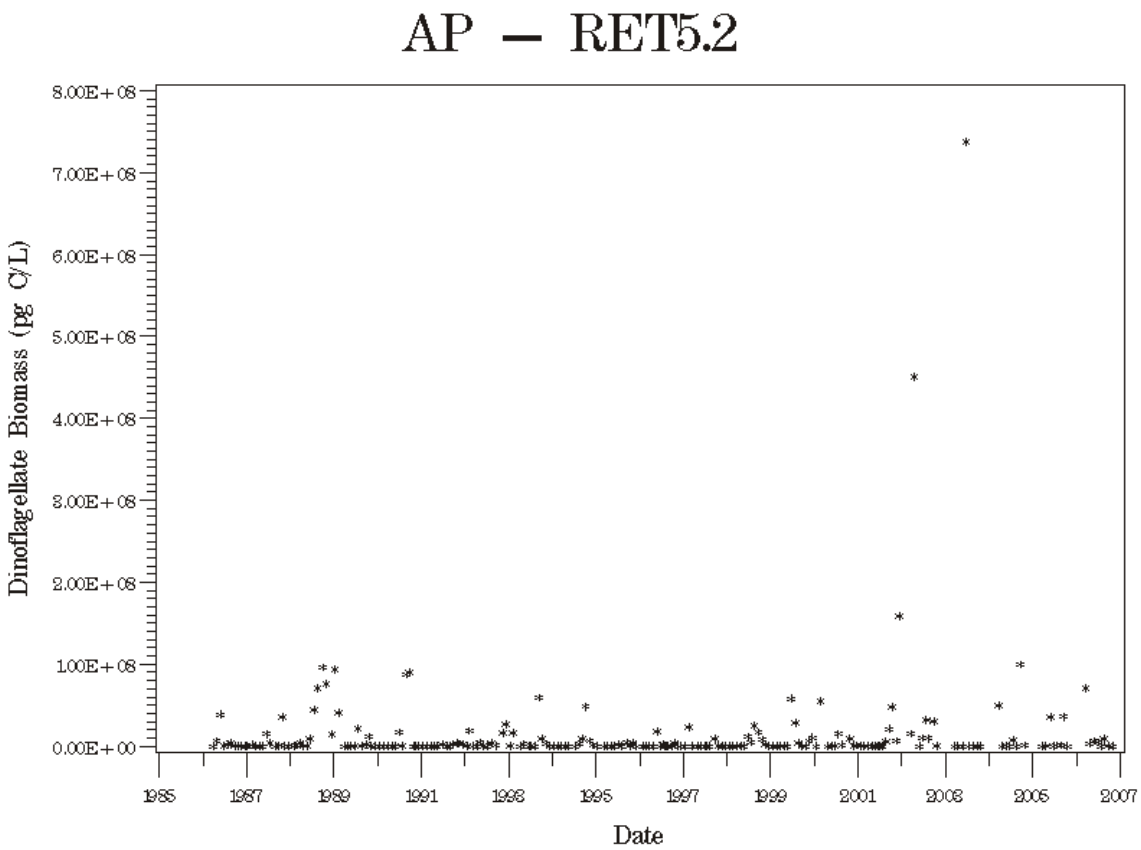


Figure F17. Plot of above pycnocline dinoflagellate biomass against time at station RET5.2 for the period of 1985 through 2005.

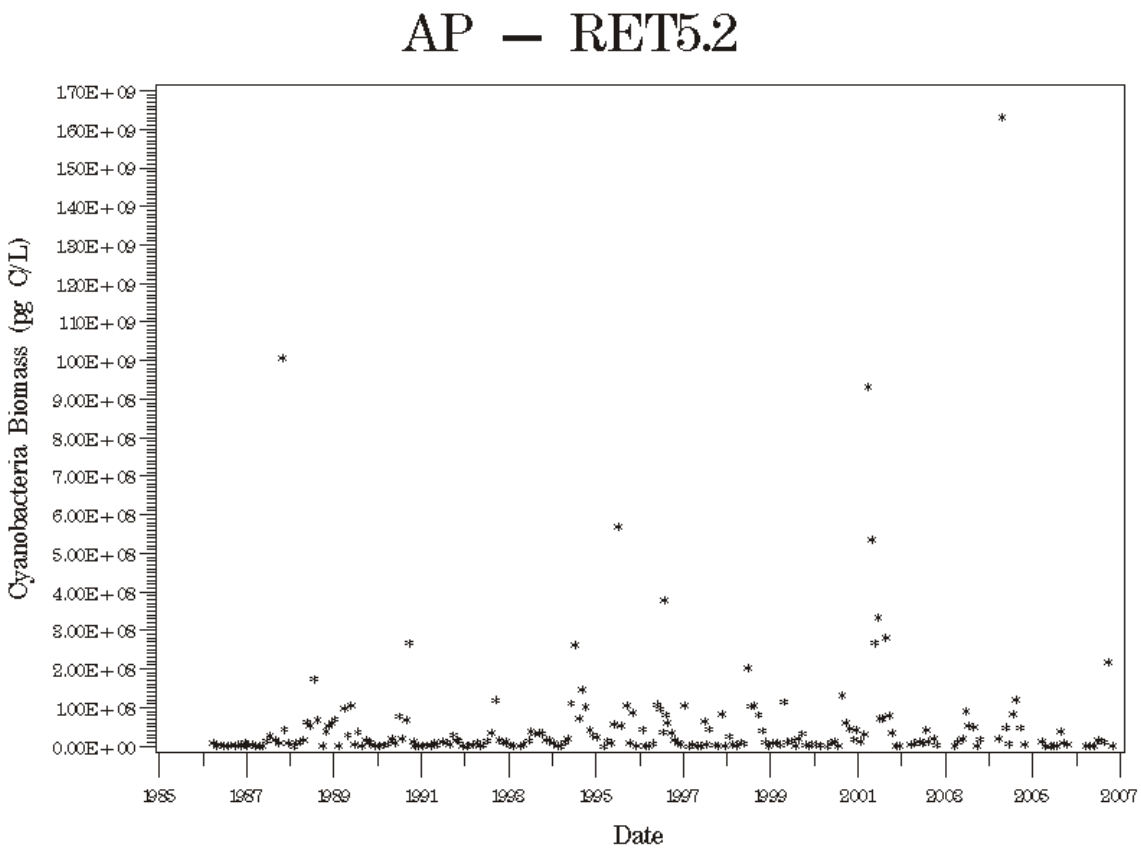


Figure F18. Plot of above pycnocline cyanobacteria biomass against time at station RET5.2 for the period of 1985 through 2005.

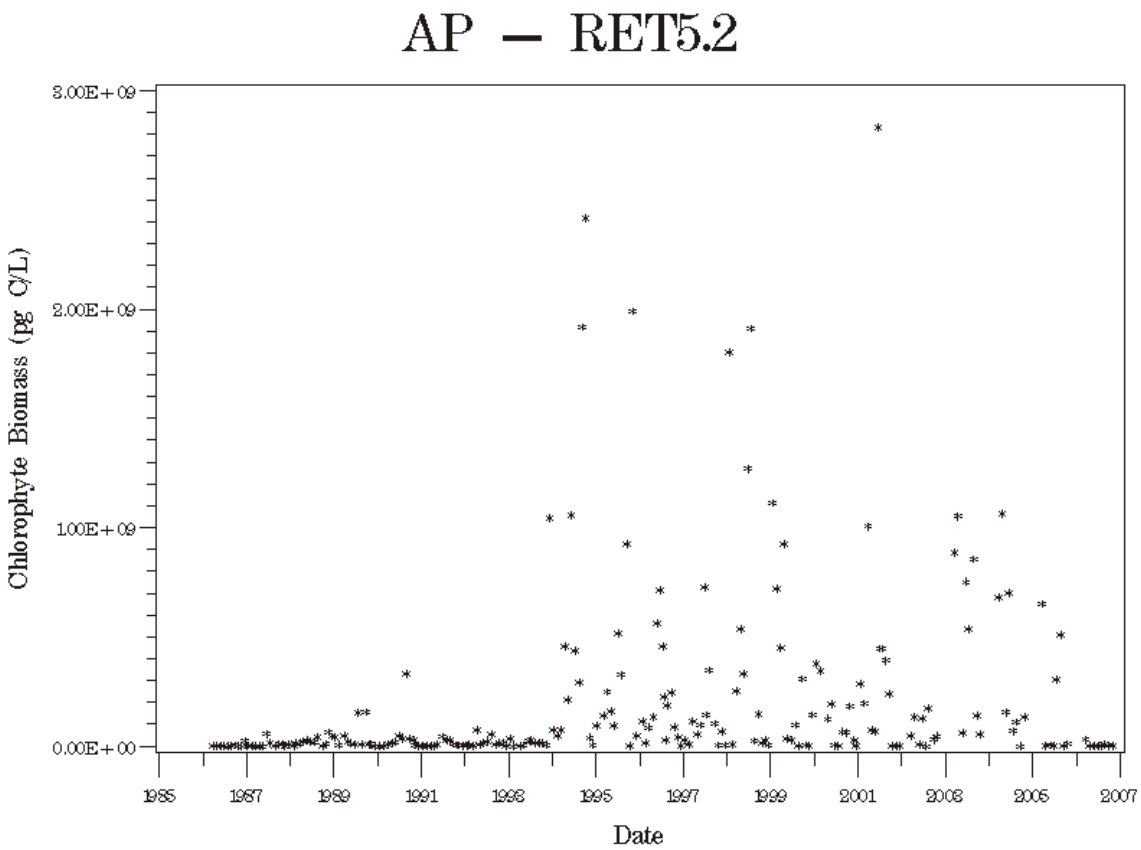


Figure F19. Plot of above pycnocline chlorophyte biomass against time at station RET5.2 for the period of 1985 through 2005.

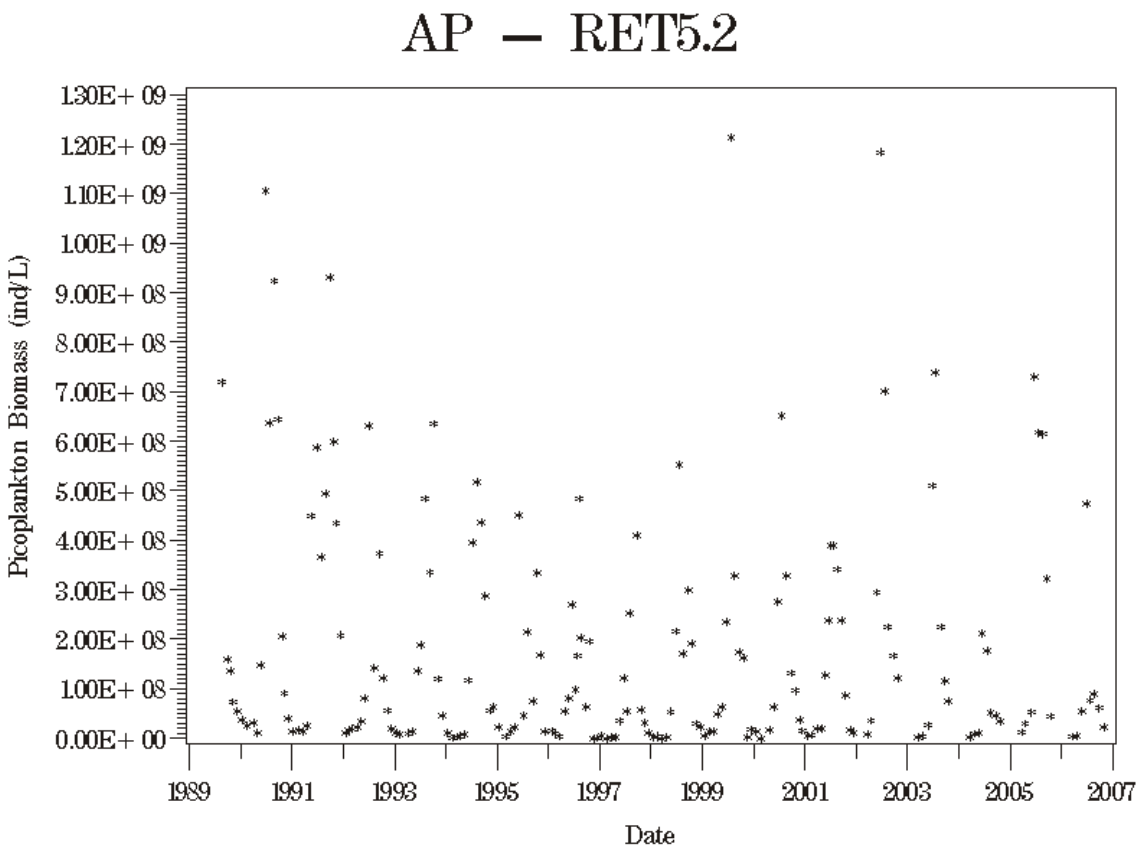


Figure F20. Plot of above pycnocline picoplankton biomass against time at station RET5.2 for the period of 1985 through 2005.

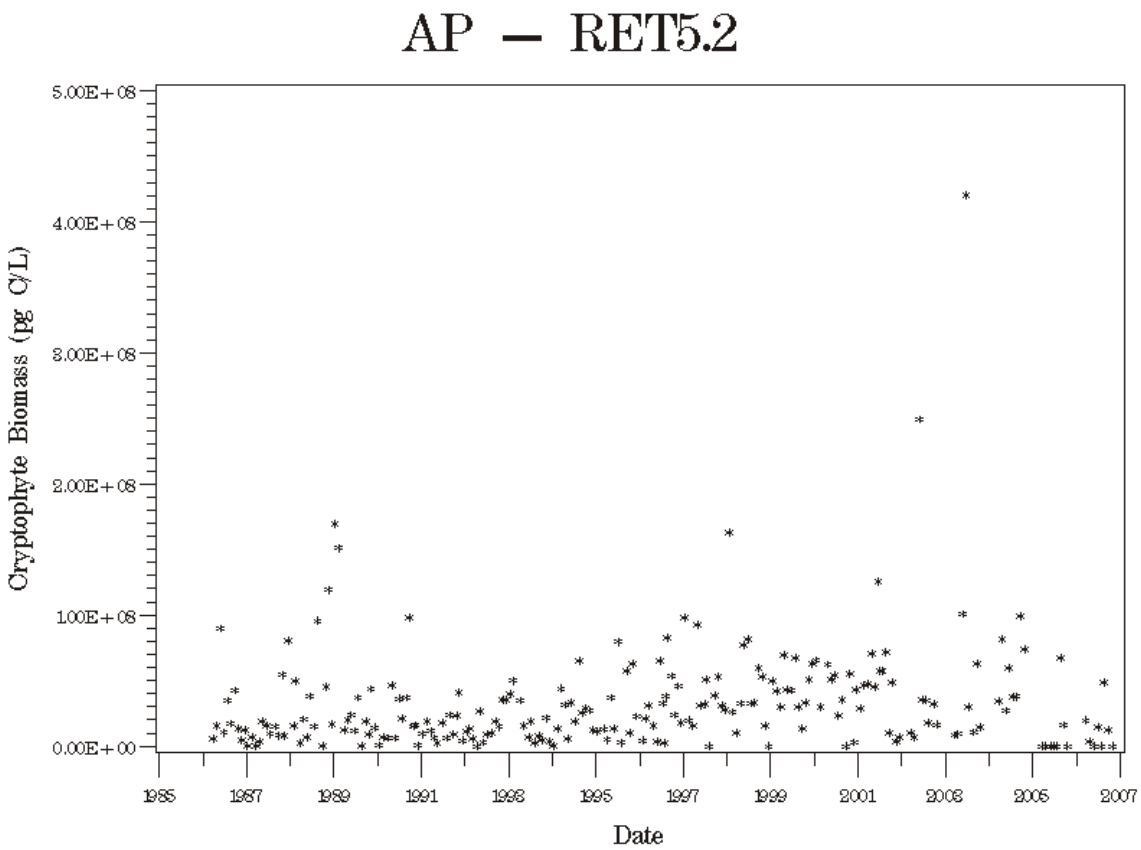


Figure F2l. Plot of above pycnocline cryptophyte biomass at station RET5.2 for the period of 1985 through 2005.

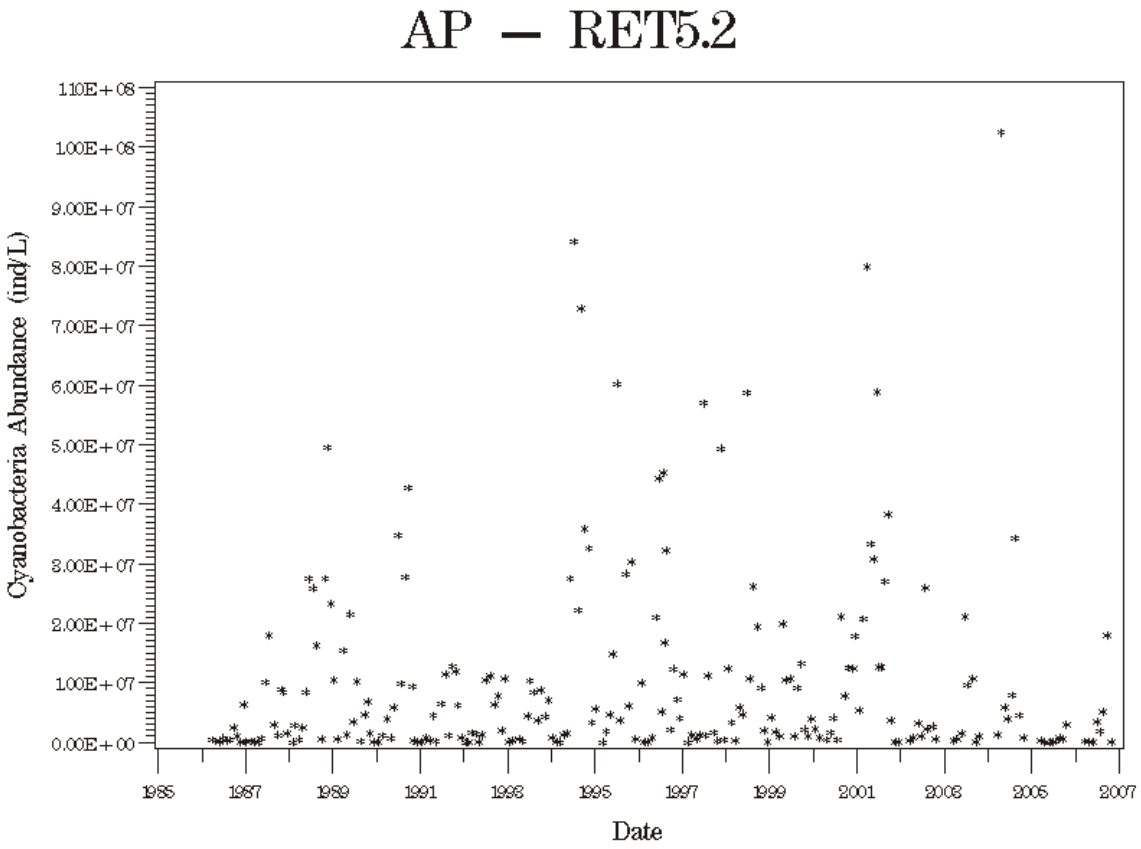


Figure F22. Plot of above pycnocline cyanophyte abundance at station RET5.2 for the period of 1985 through 2005.

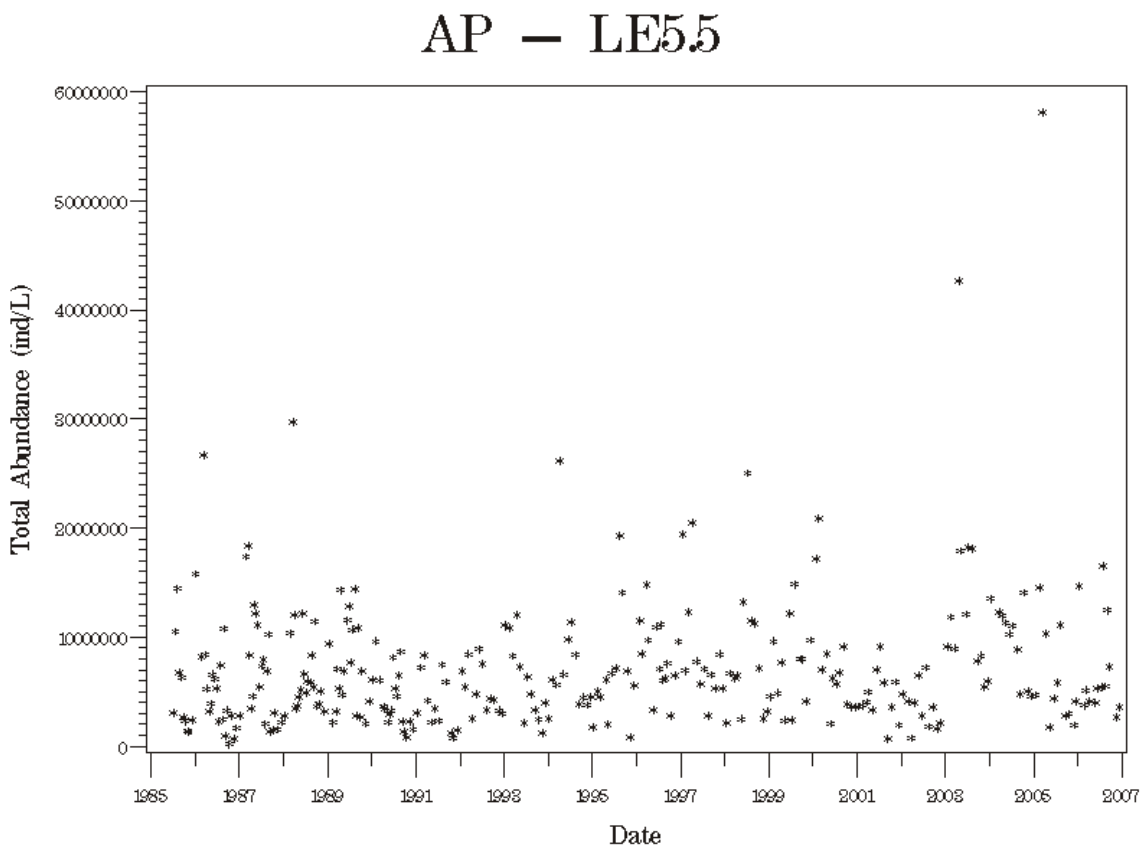


Figure F23. Plot of above pycnocline total phytoplankton abundance against time at station LE5.5 for the period of 1985 through 2005.

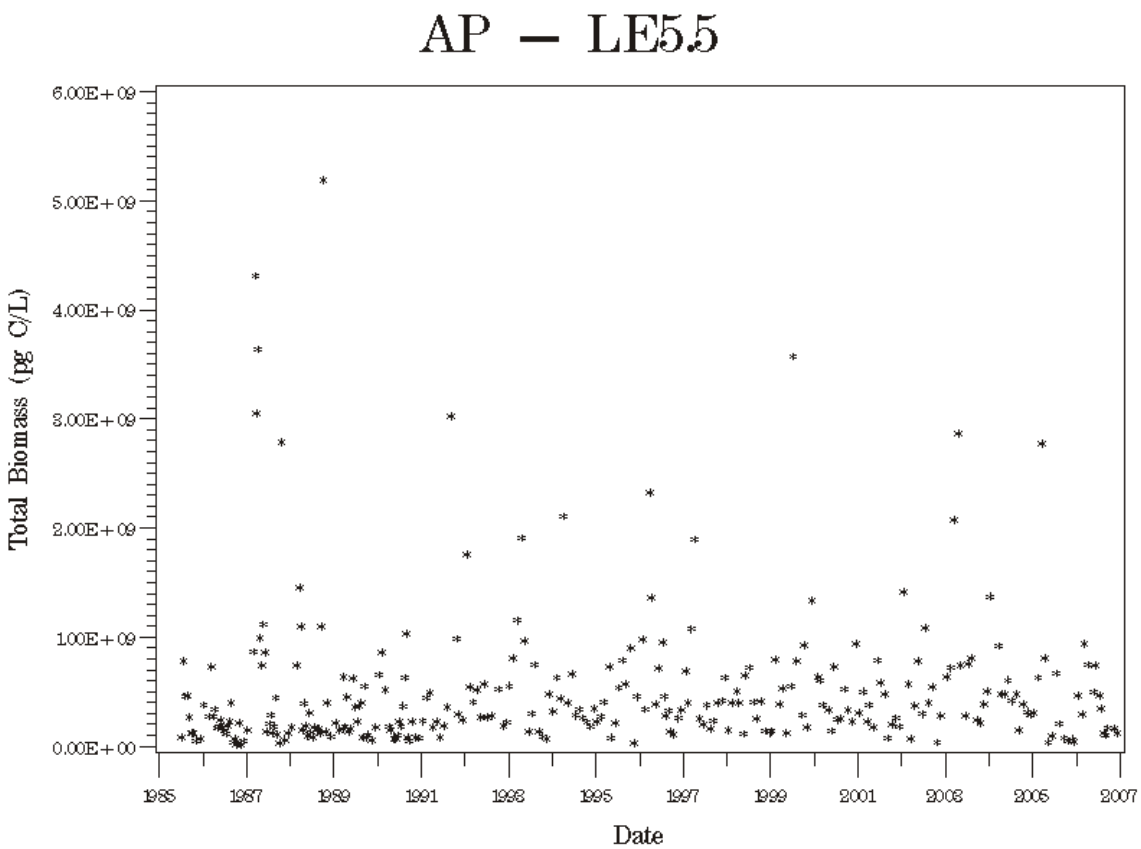


Figure F24. Plot of above pycnocline total phytoplankton biomass against time at station LE5.5 for the period of 1985 through 2005.

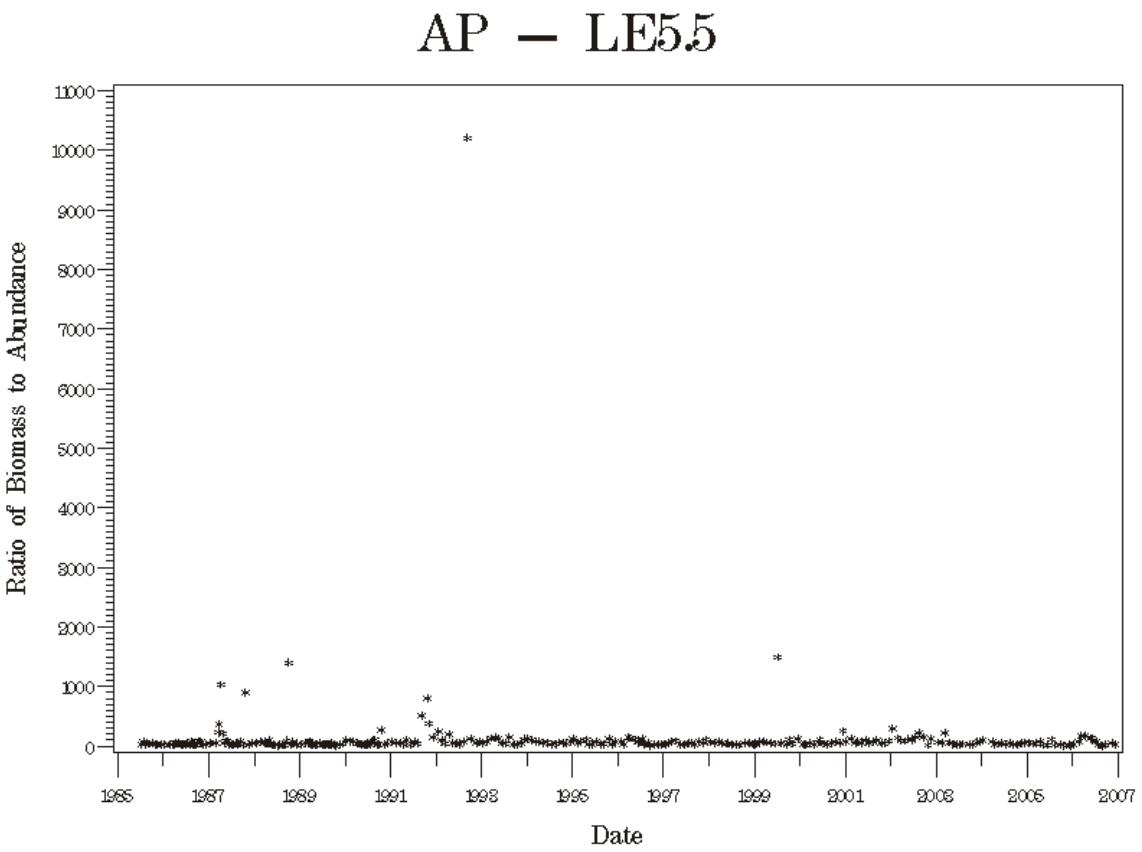


Figure F25. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station LE5.5 for the period of 1985 through 2005.

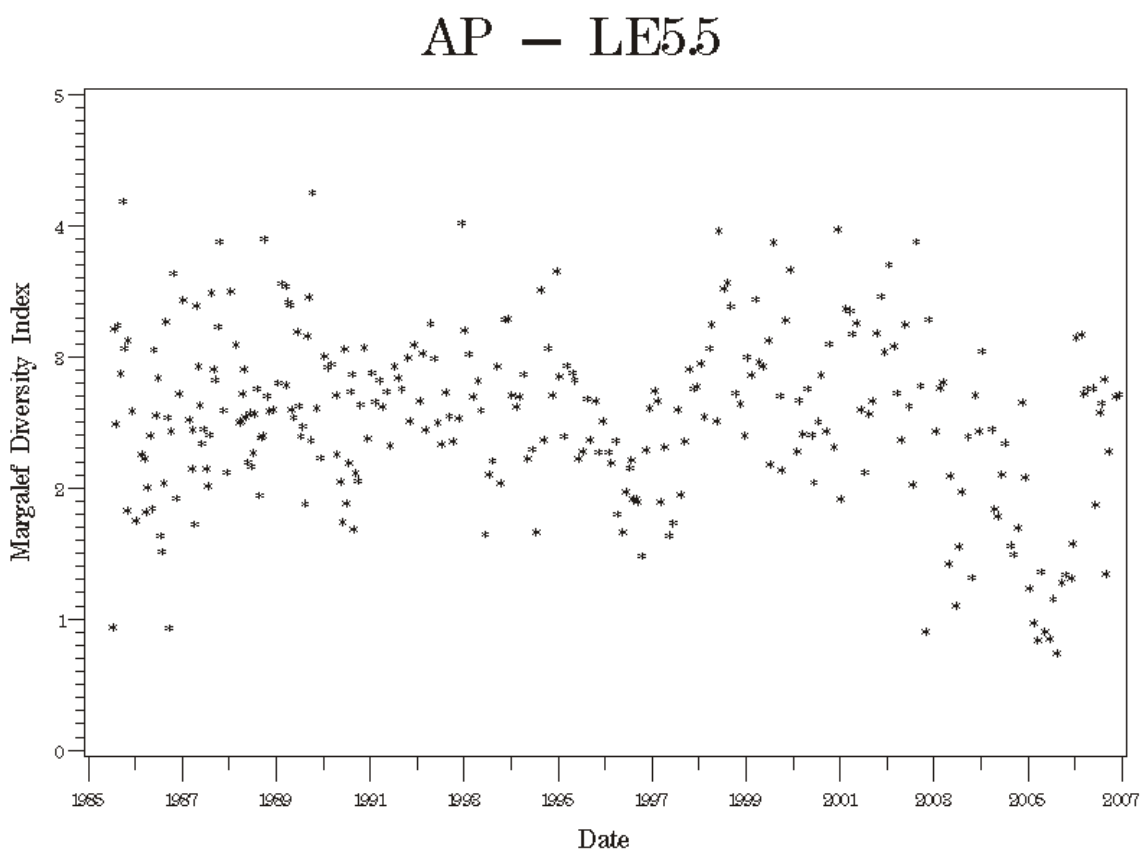


Figure F26. Plot of above pycnocline Margalef diversity index against time at station LE5.5 for the period of 1985 through 2005.

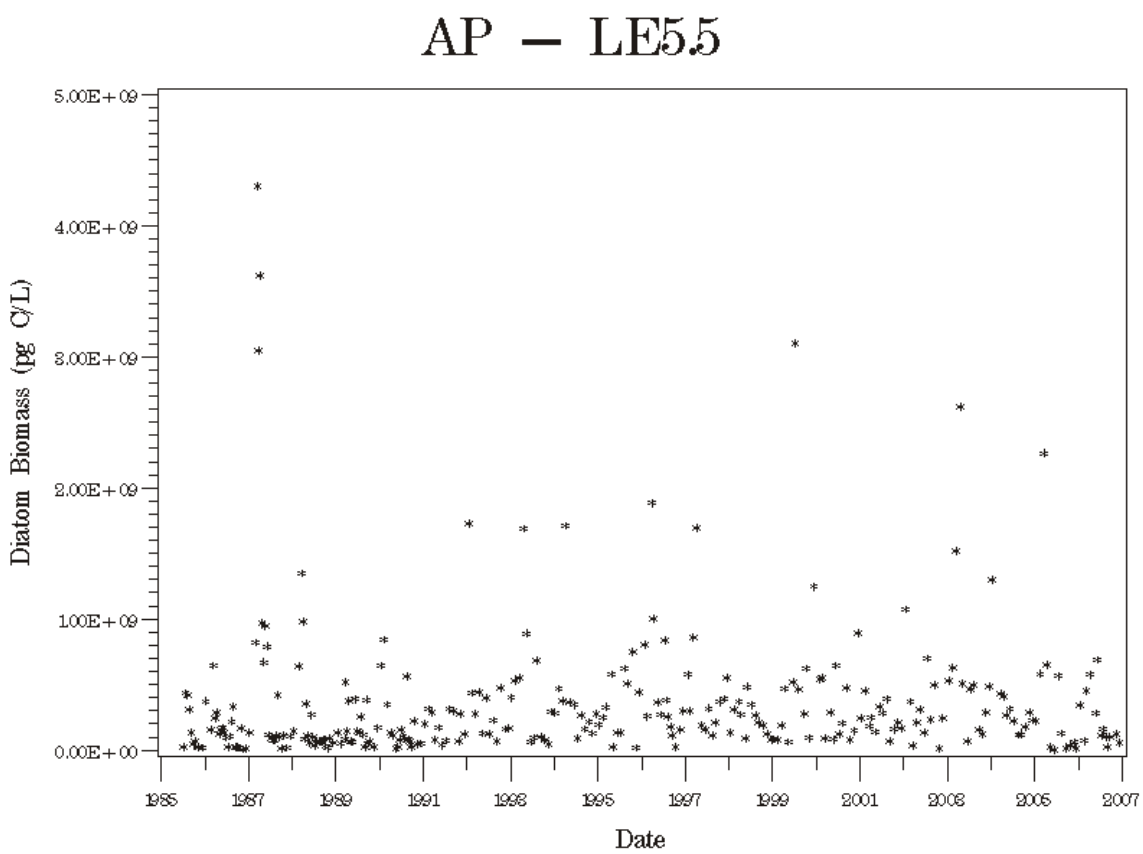


Figure F27. Plot of above pycnocline diatom biomass against time at station LE5.5 for the period of 1985 through 2005.

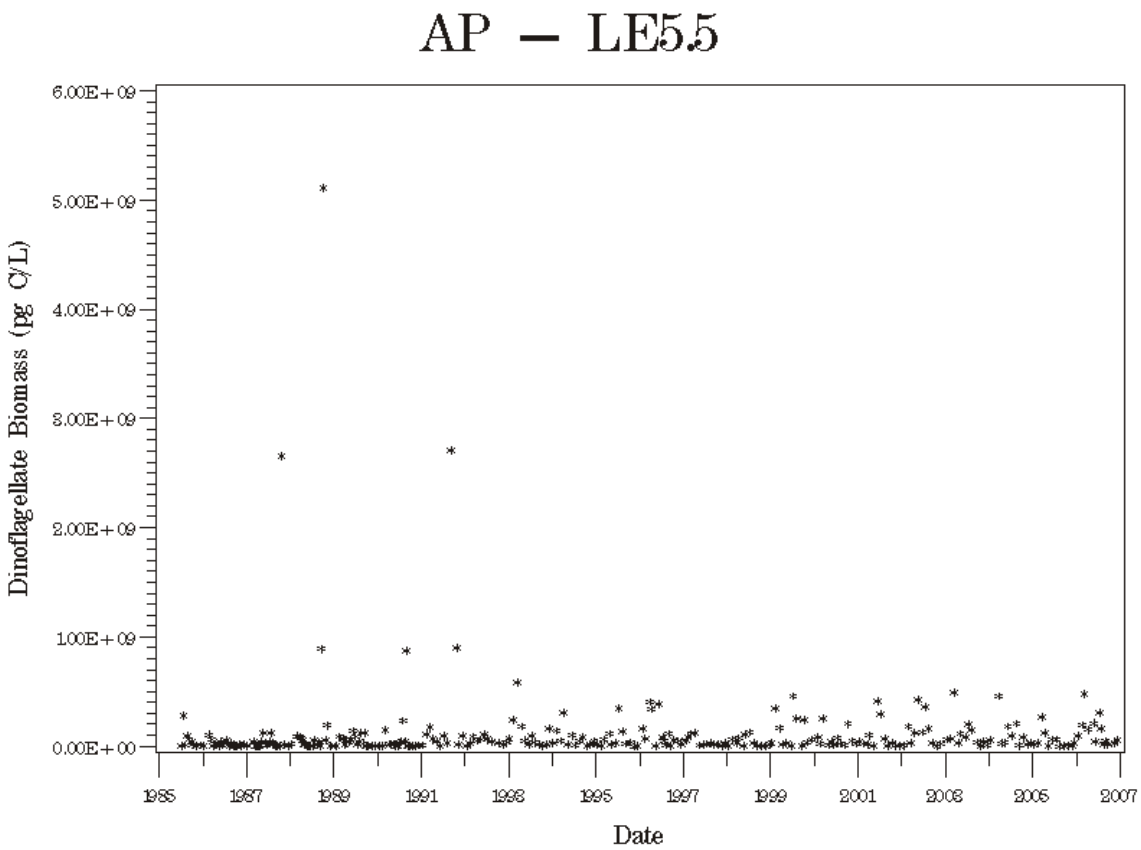


Figure F28. Plot of above pycnocline dinoflagellate biomass against time at station LE5.5 for the period of 1985 through 2005.

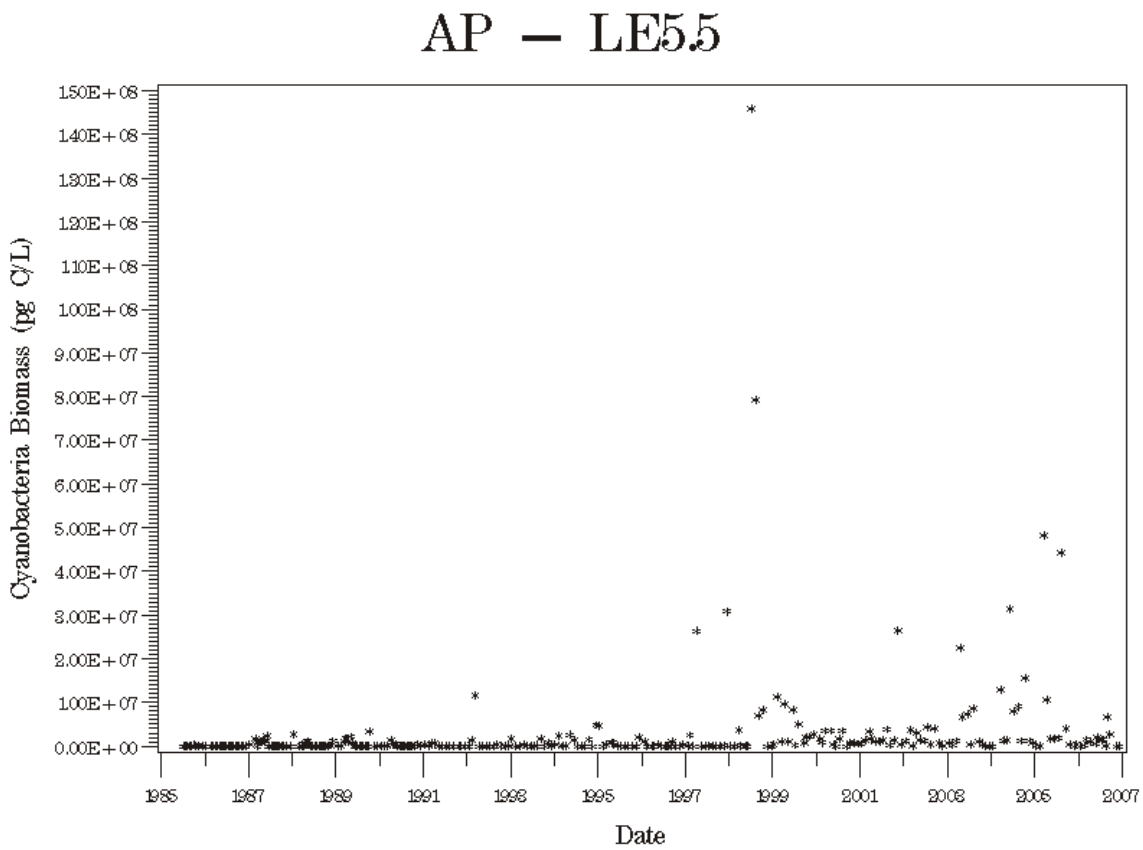


Figure F29. Plot of above pycnocline cyanobacteria biomass against time at station LE5.5 for the period of 1985 through 2005.

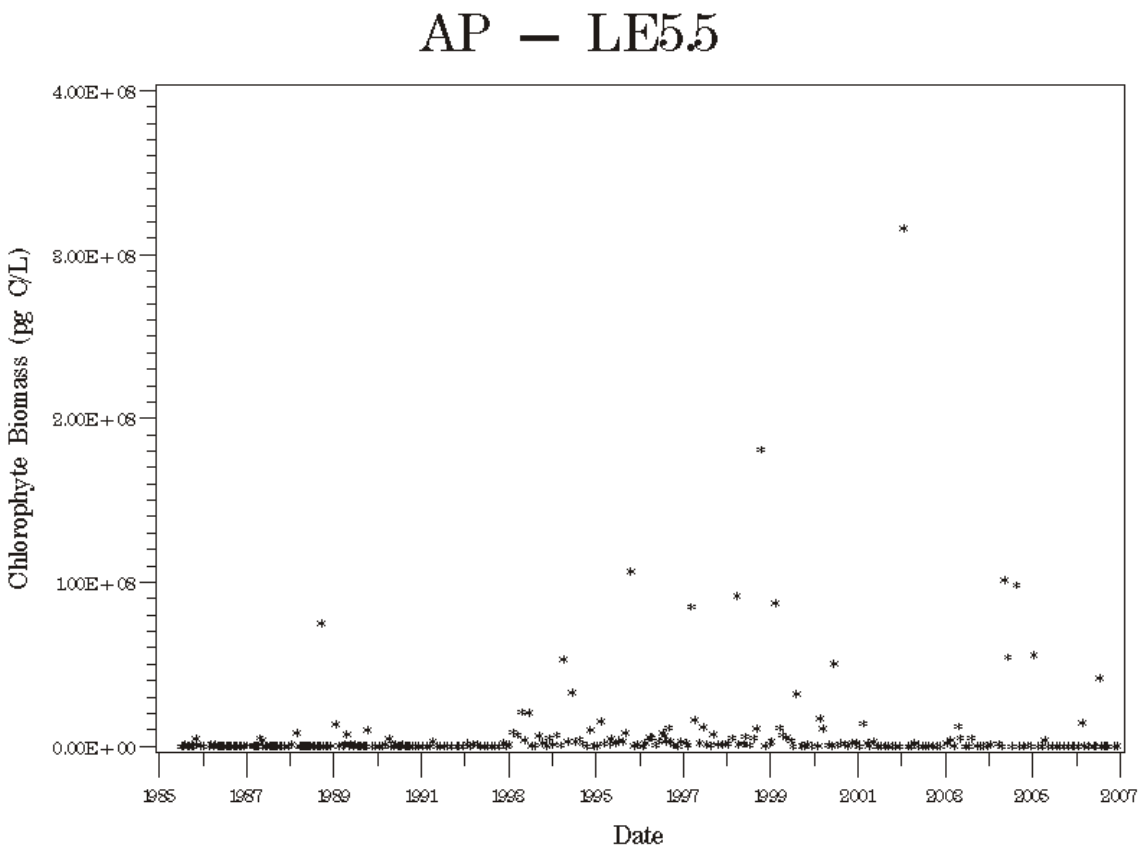


Figure F30. Plot of above pycnocline chlorophyte biomass against time at station LE5.5 for the period of 1985 through 2005.

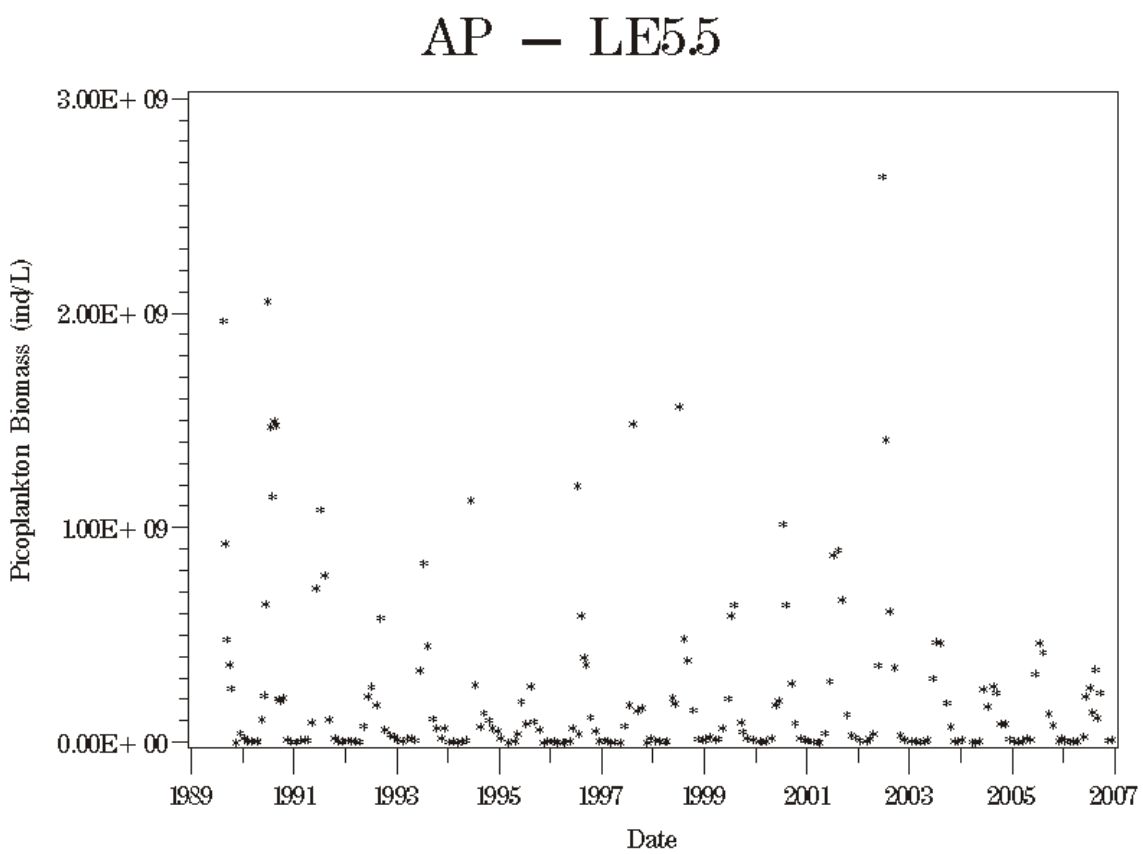


Figure F31. Plot of above pycnocline picoplankton biomass against time at station LE5.5 for the period of 1985 through 2005.

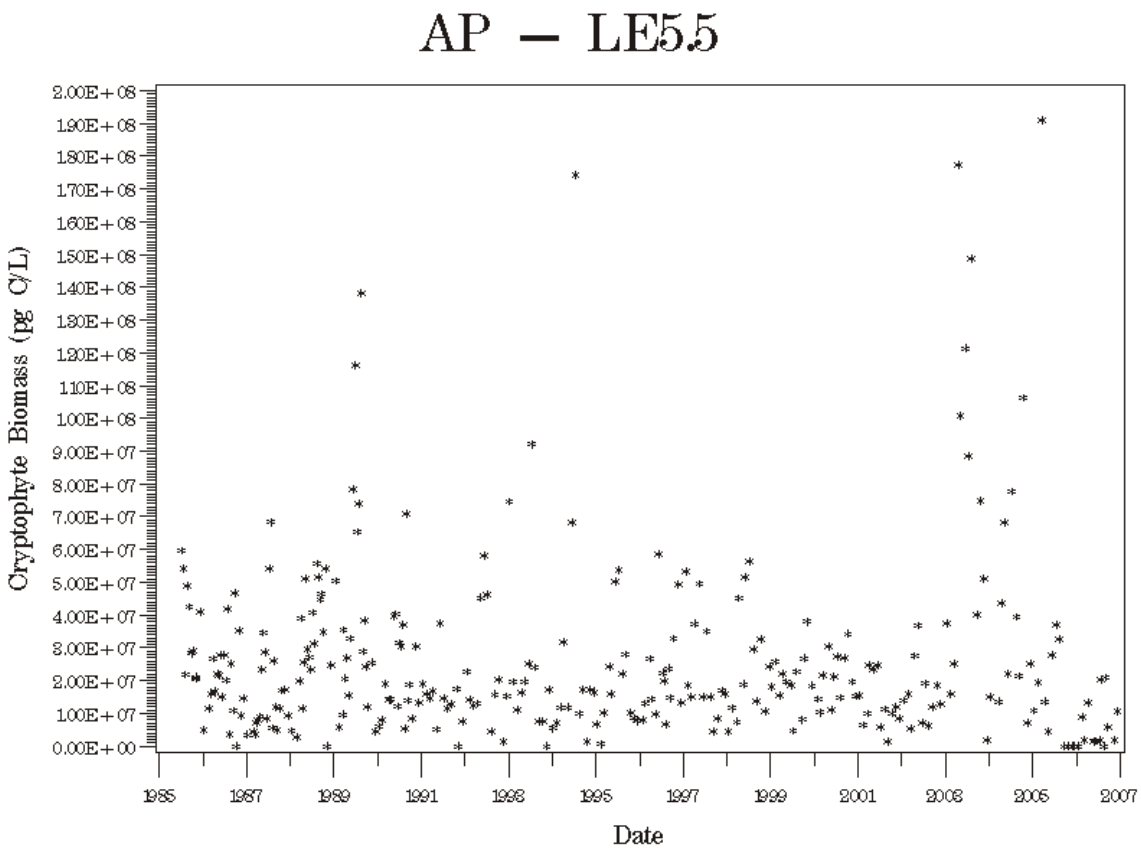


Figure F32. Plot of above pycnocline cryptophyte biomass at station LE5.5 for the period of 1985 through 2005.

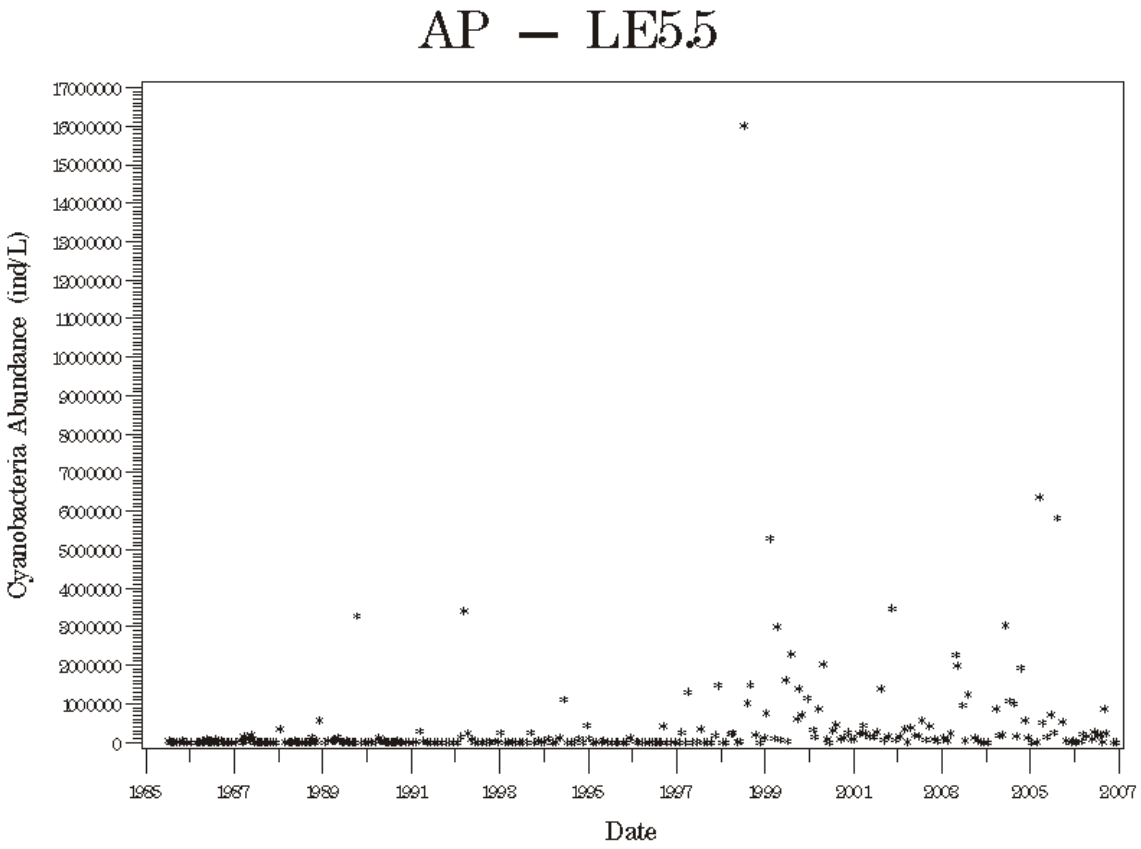


Figure F33. Plot of above pycnocline cyanophyte abundance at station LE5.5 for the period of 1985 through 2005.

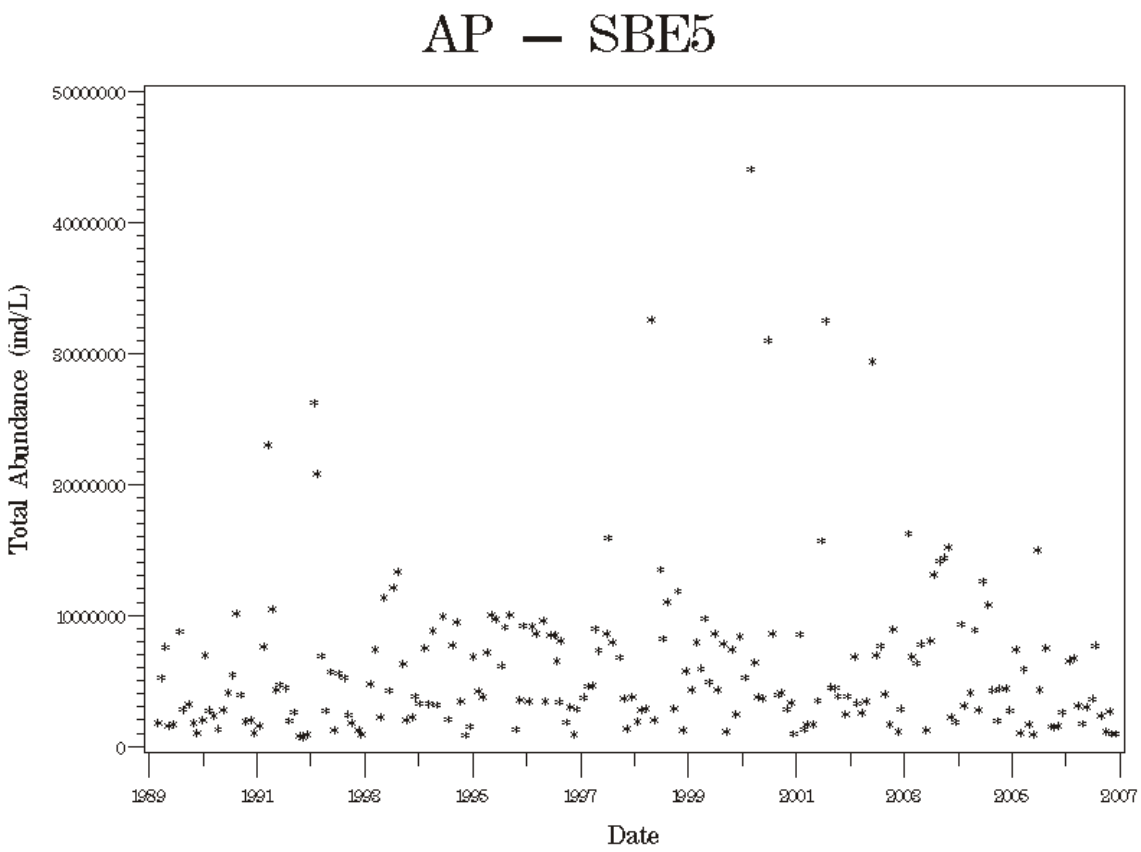


Figure F34. Plot of above pycnocline total phytoplankton abundance against time at station SBE5 for the period of 1985 through 2005.

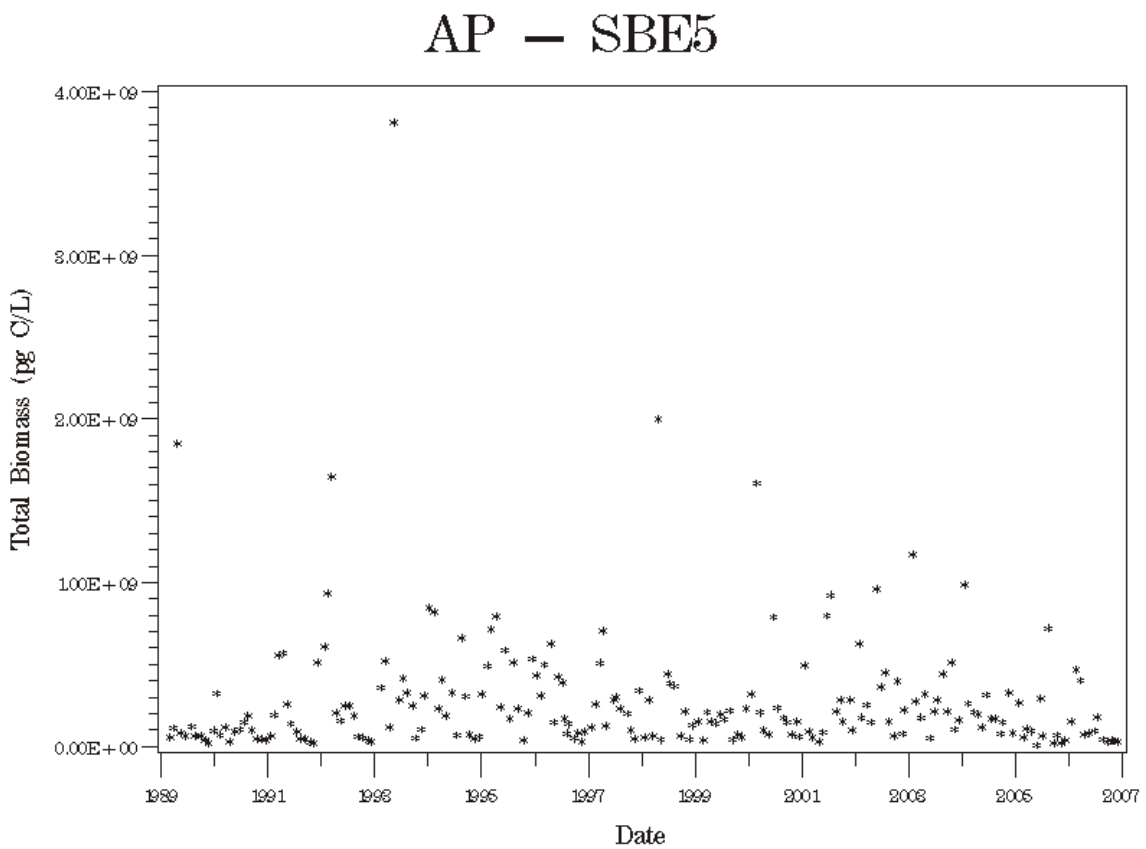


Figure F35. Plot of above pycnocline total phytoplankton biomass against time at station SBE5 for the period of 1985 through 2005.

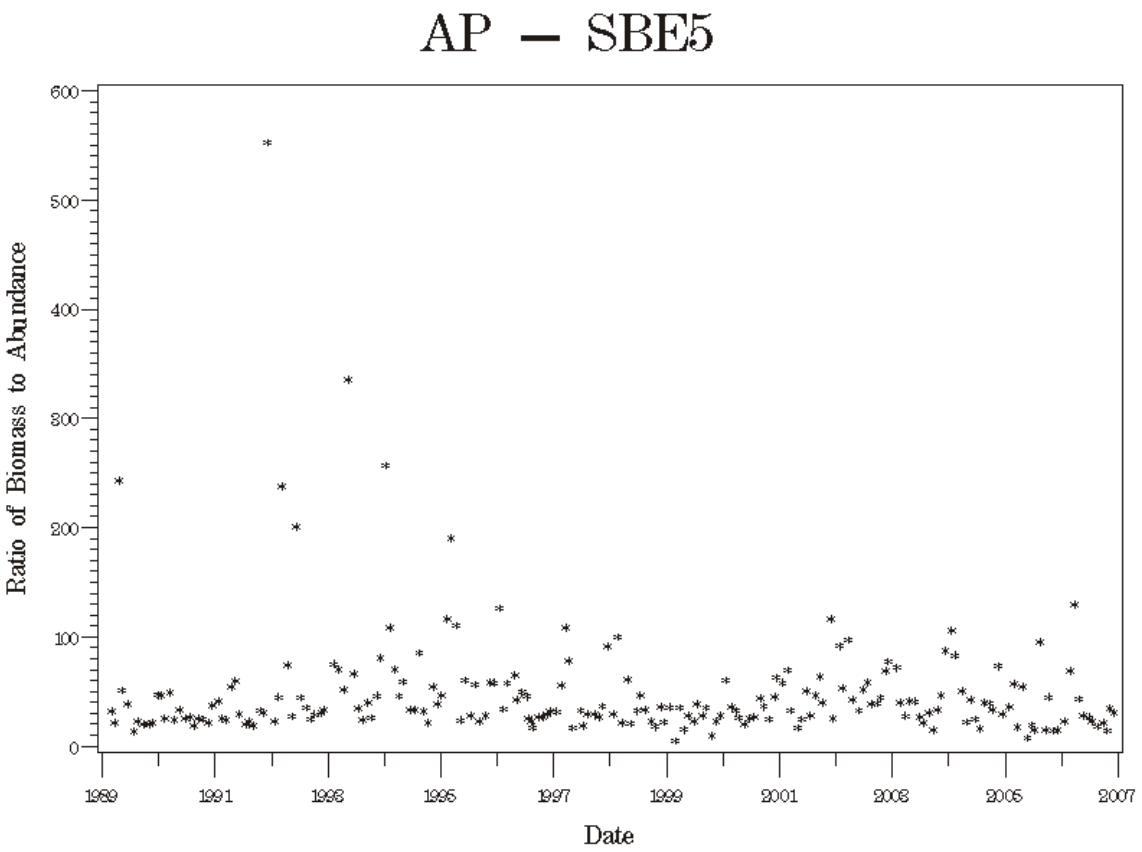


Figure F36. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station SBE5 for the period of 1985 through 2005.

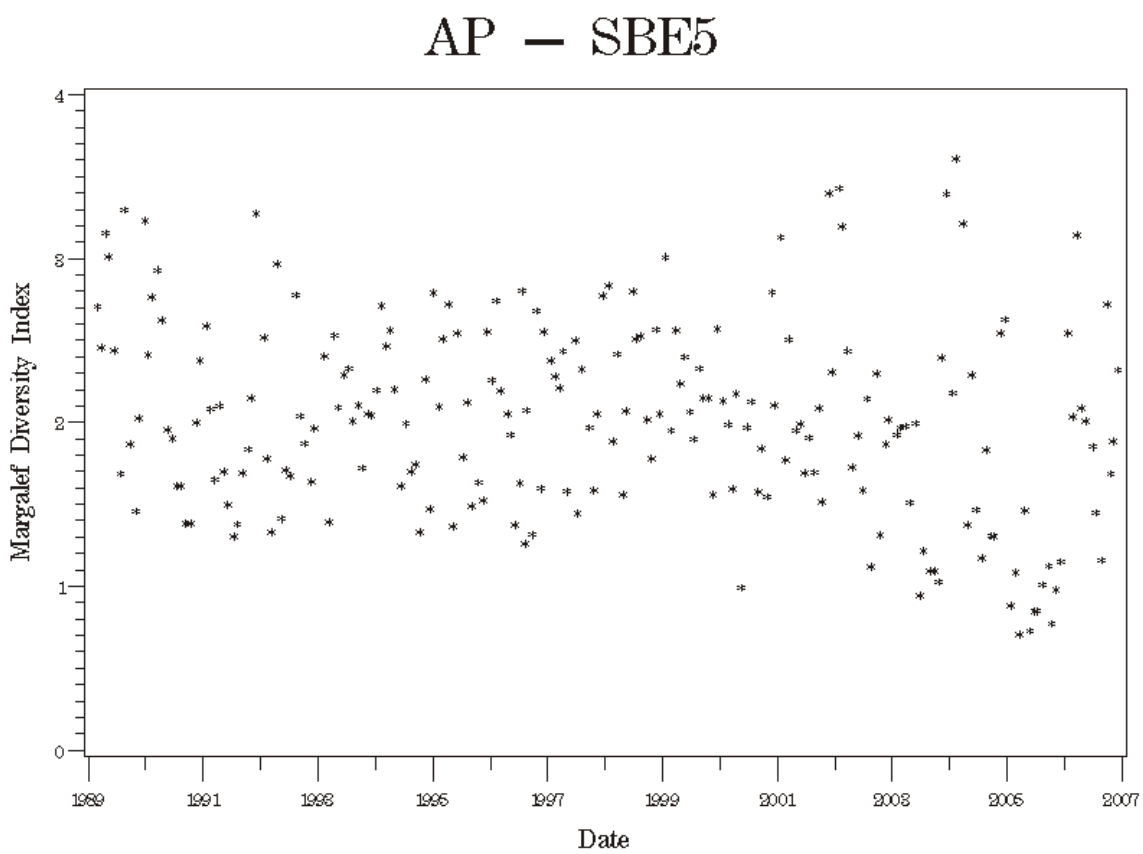


Figure F37. Plot of above pycnocline Margalef diversity index against time at station SBE5 for the period of 1985 through 2005.

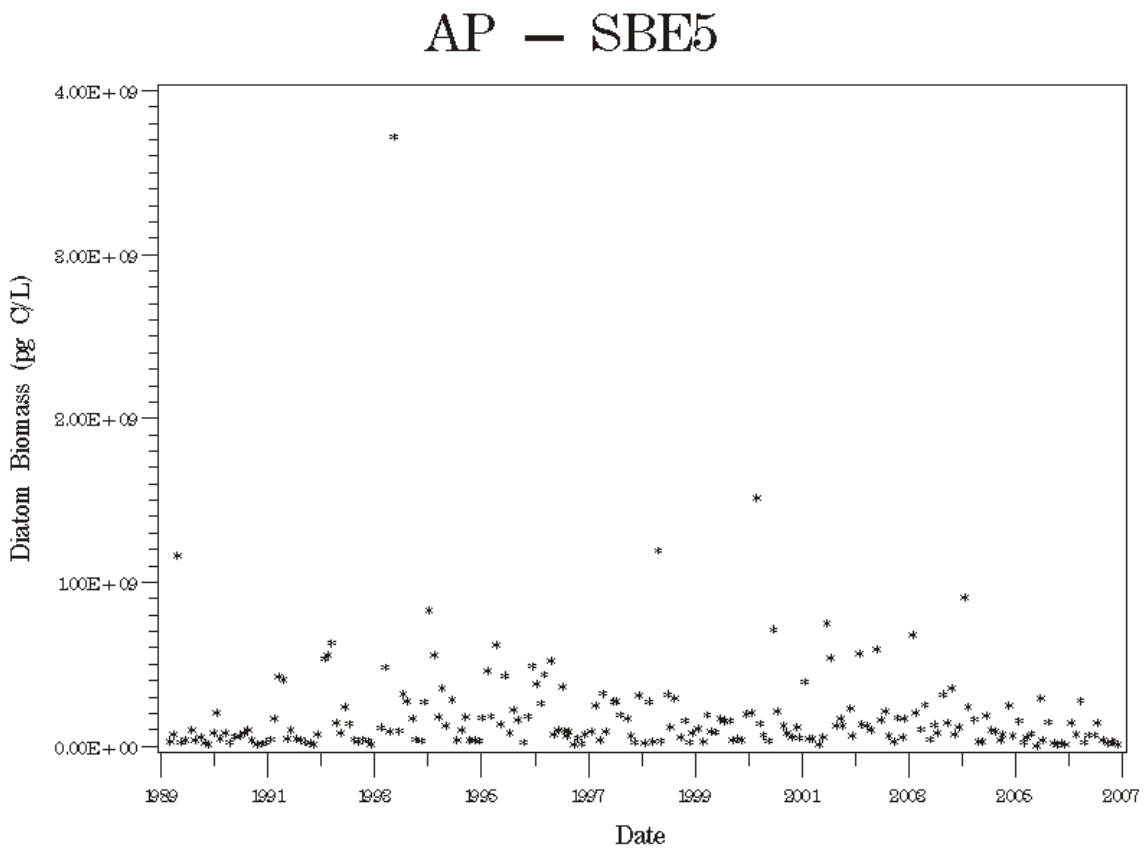


Figure F38. Plot of above pycnocline diatom biomass against time at station SBE5 for the period of 1985 through 2005.

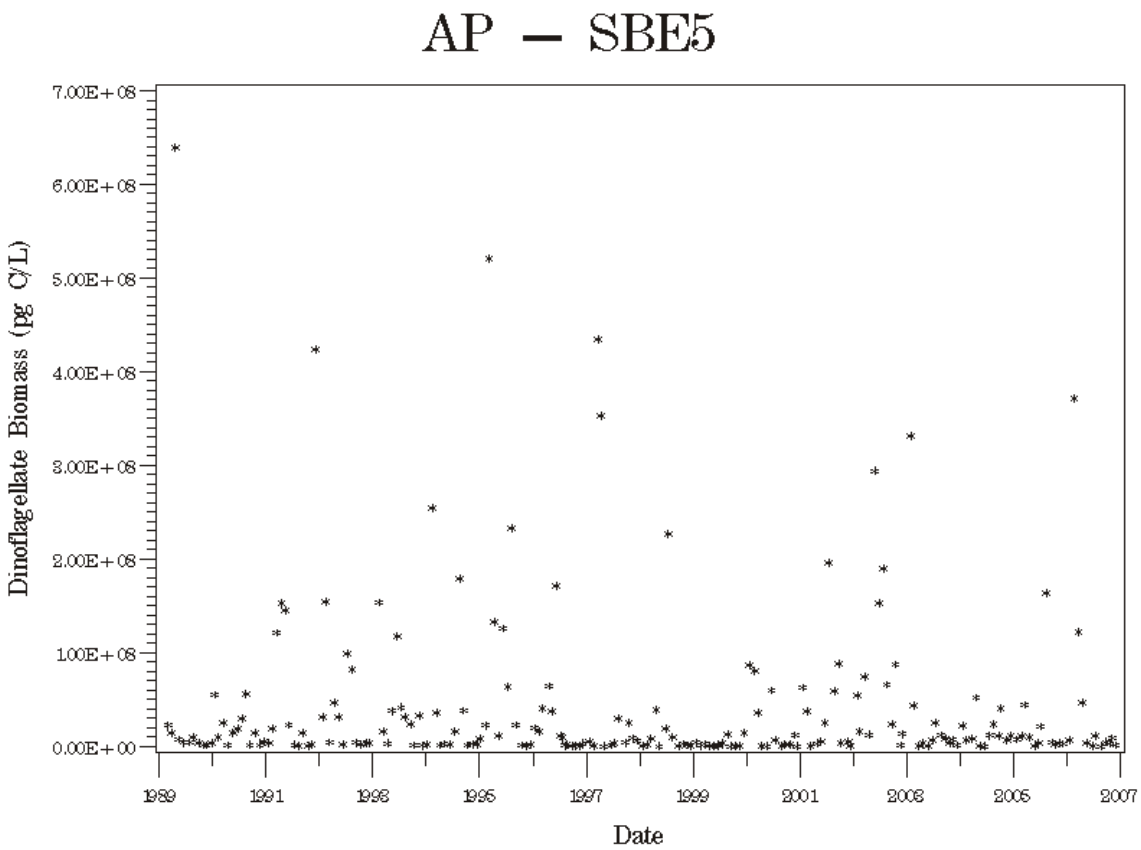


Figure F39. Plot of above pycnocline dinoflagellate biomass against time at station SBE5 for the period of 1985 through 2005.

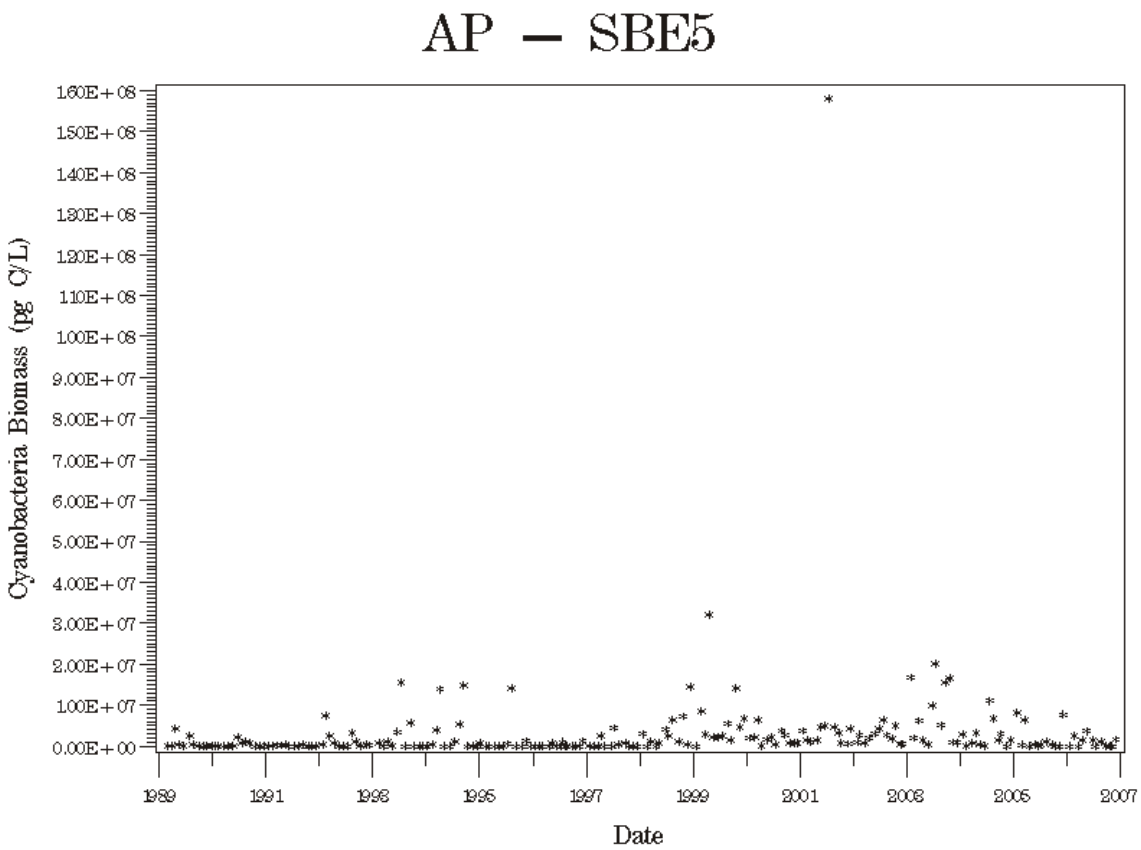


Figure F40. Plot of above pycnocline cyanobacteria biomass against time at station SBE5 for the period of 1985 through 2005.

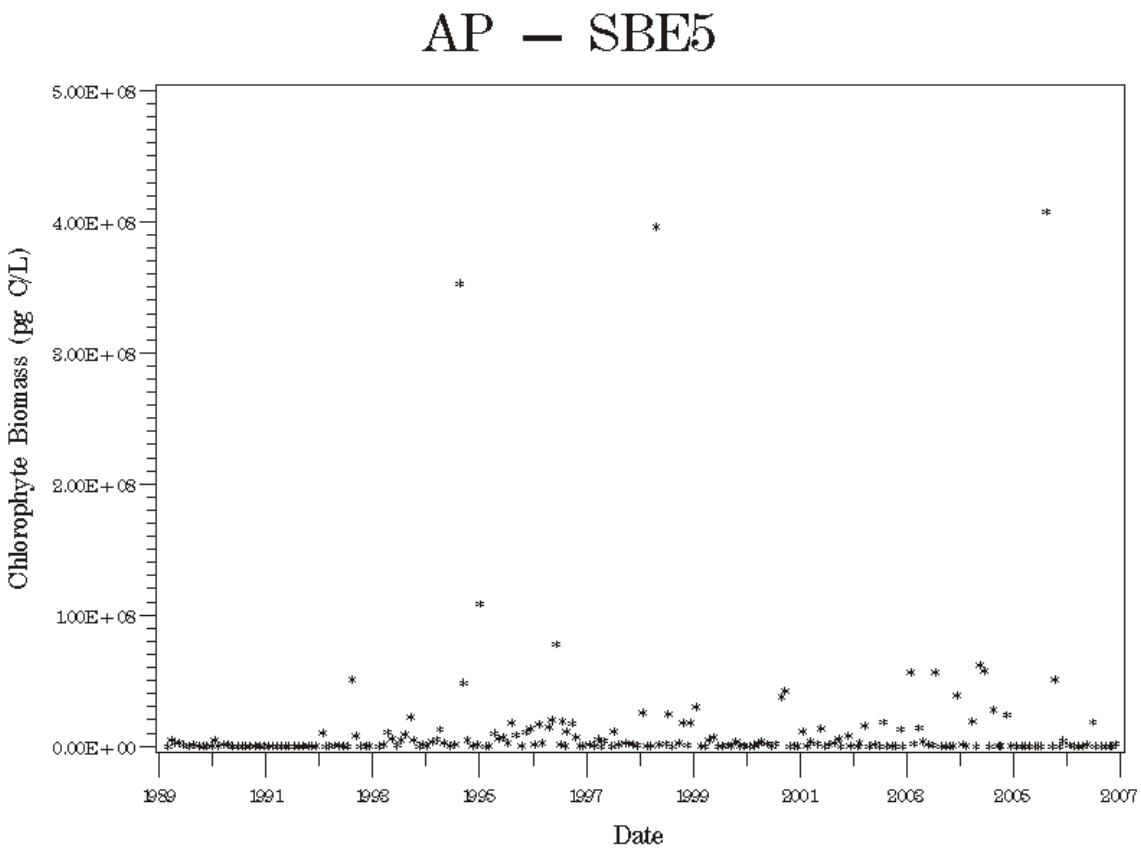


Figure F41. Plot of above pycnocline chlorophyte biomass against time at station SBE5 for the period of 1985 through 2005.

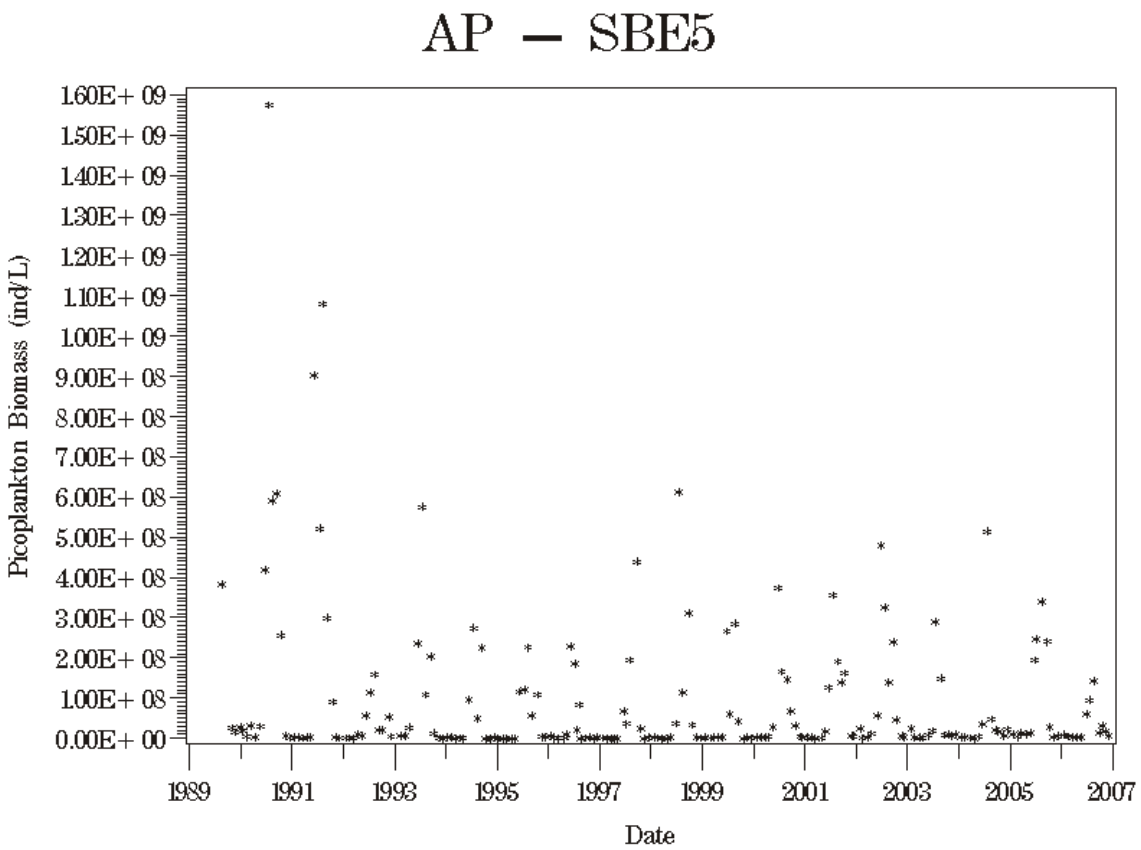


Figure F42. Plot of above pycnocline picoplankton biomass against time at station SBE5 for the period of 1985 through 2005.

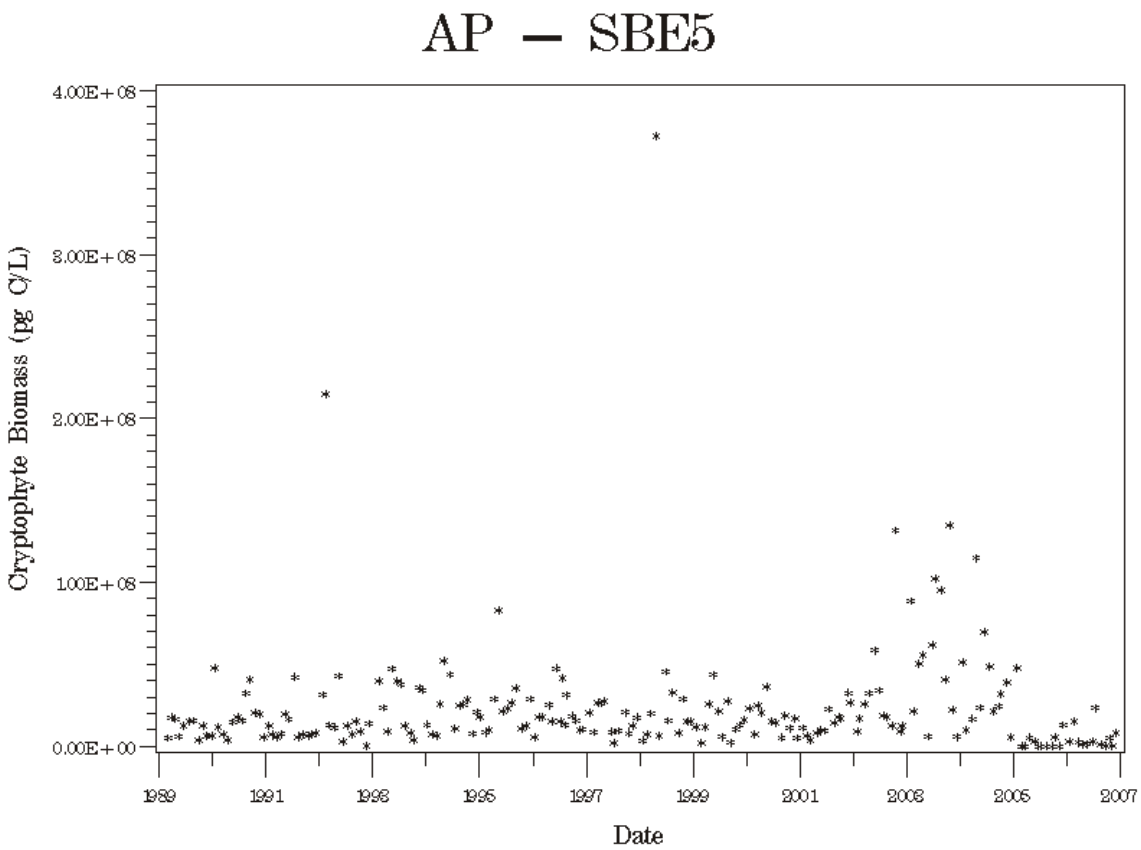


Figure F43. Plot of above pycnocline cryptophyte biomass at station SBE5 for the period of 1985 through 2005.

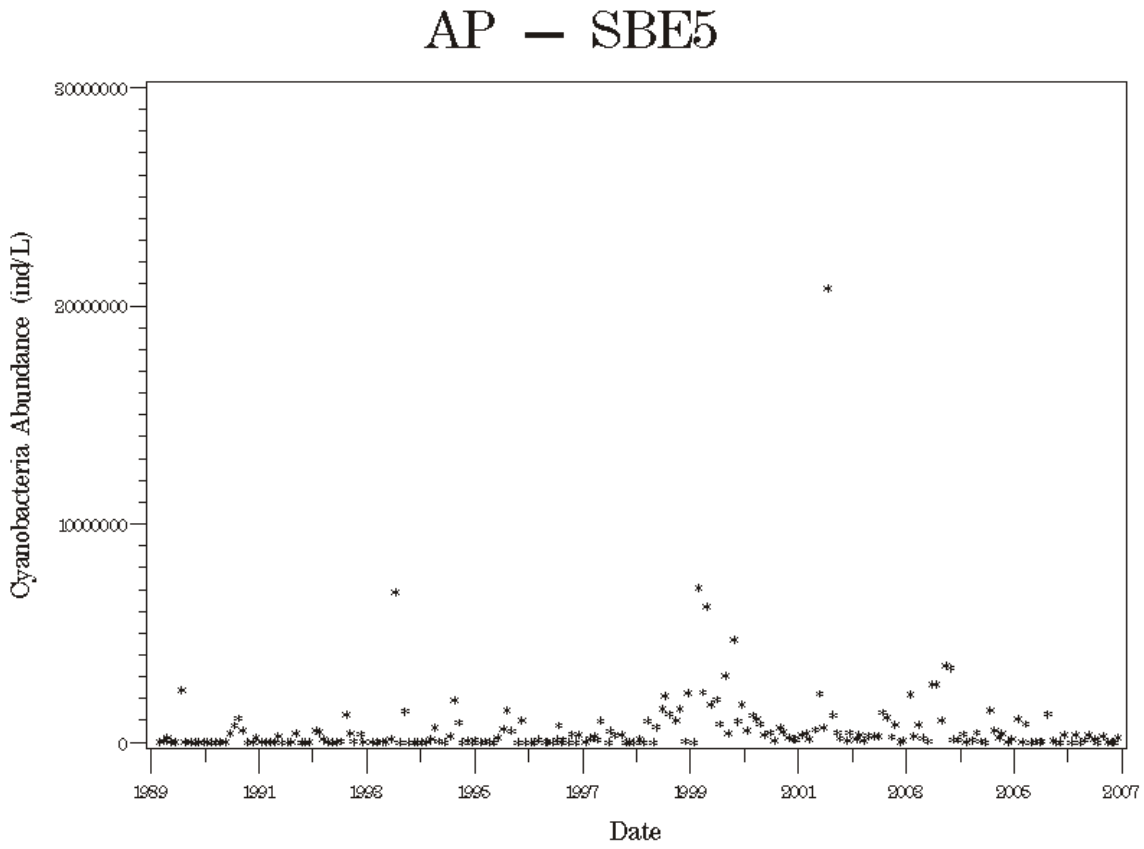


Figure F44. Plot of above pycnocline cyanophyte abundance at station SBE5 for the period of 1985 through 2005.

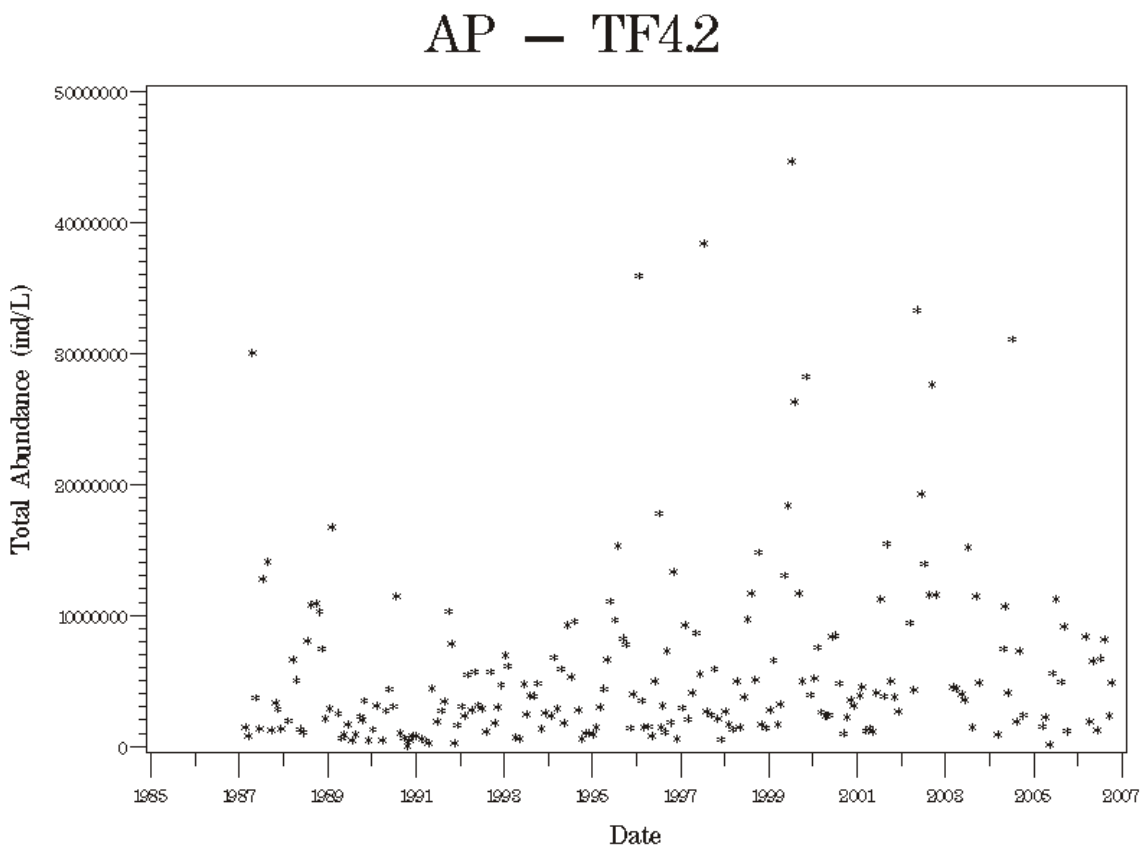


Figure F45. Plot of above pycnocline total phytoplankton abundance against time at station TF4.2 for the period of 1985 through 2005.

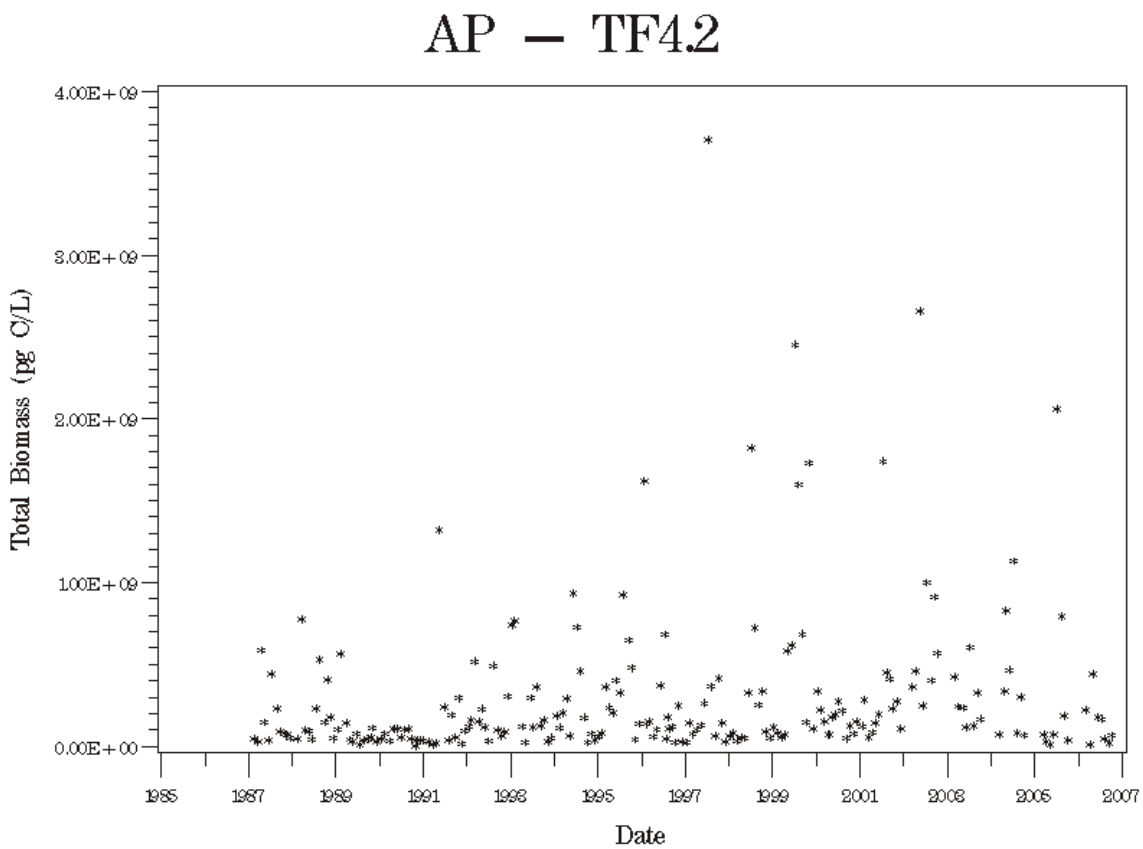


Figure F46. Plot of above pycnocline total phytoplankton biomass against time at station TF4.2 for the period of 1985 through 2005.

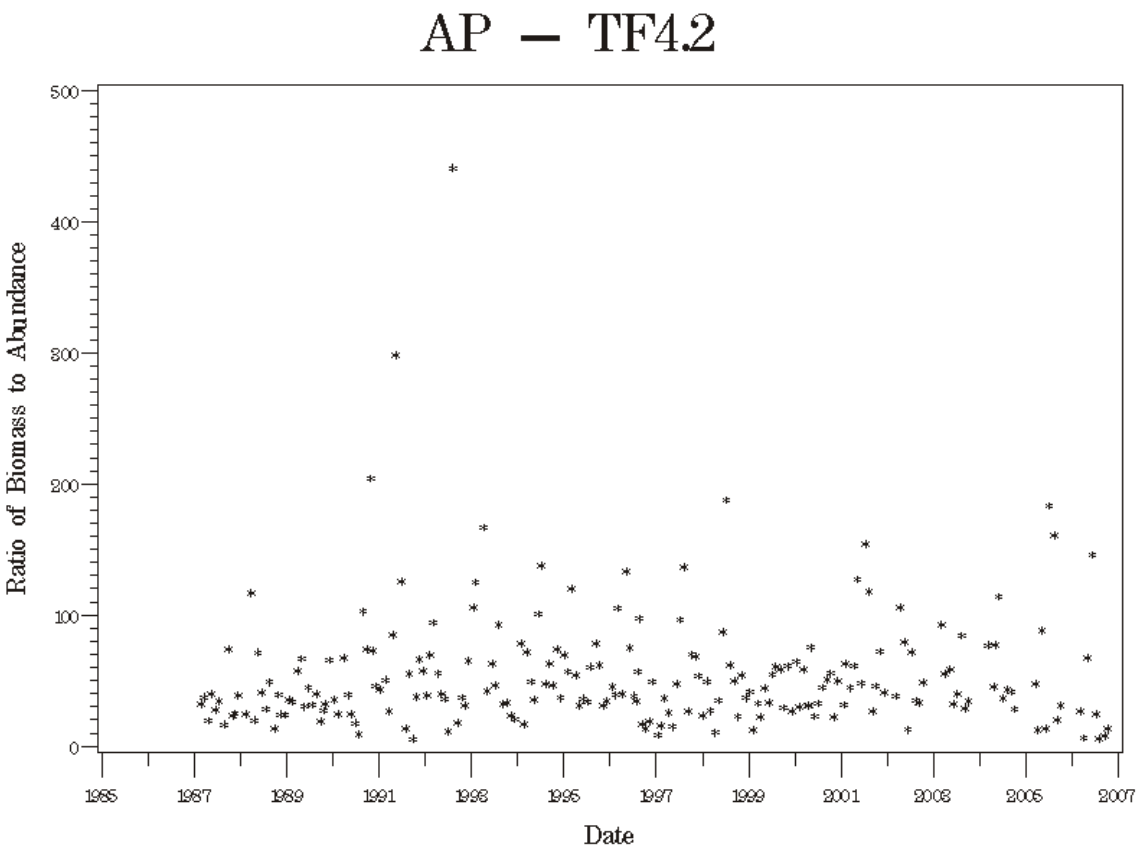


Figure F47. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF4.2 for the period of 1985 through 2005.

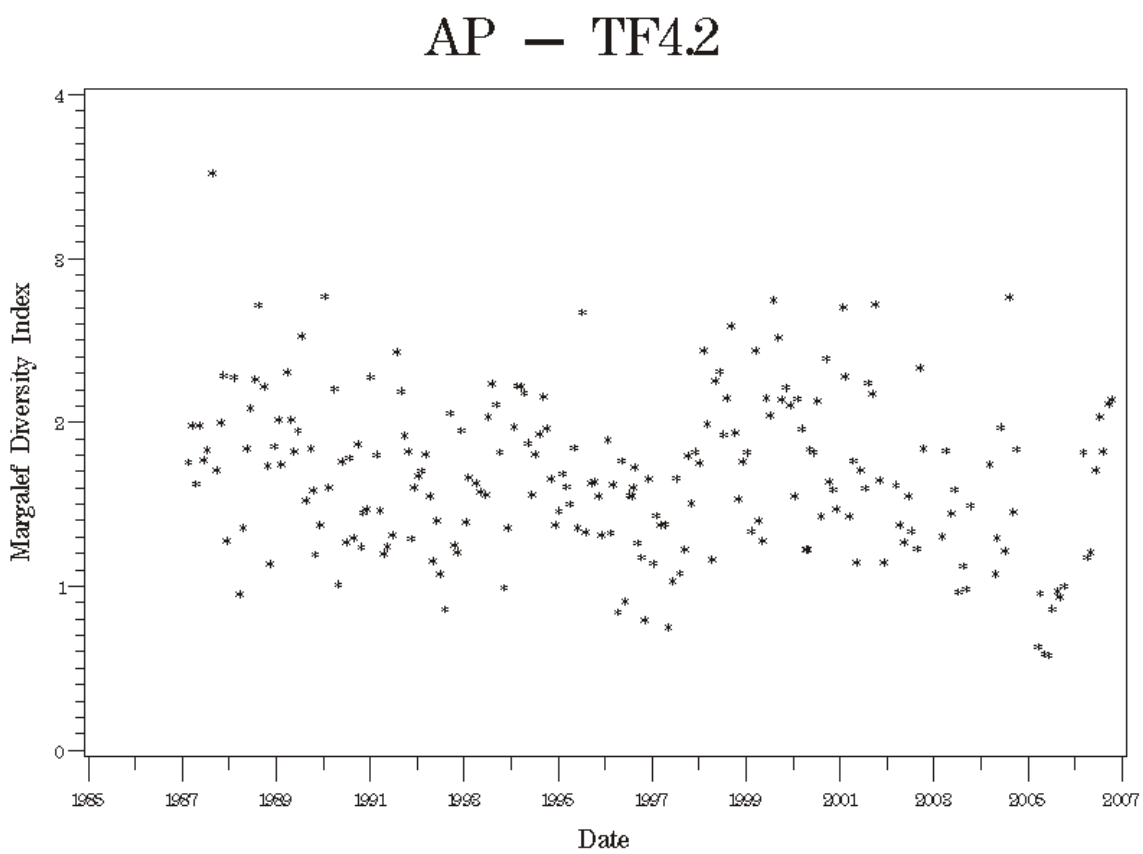


Figure F48. Plot of above pycnocline Margalef diversity index against time at station TF4.2 for the period of 1985 through 2005.

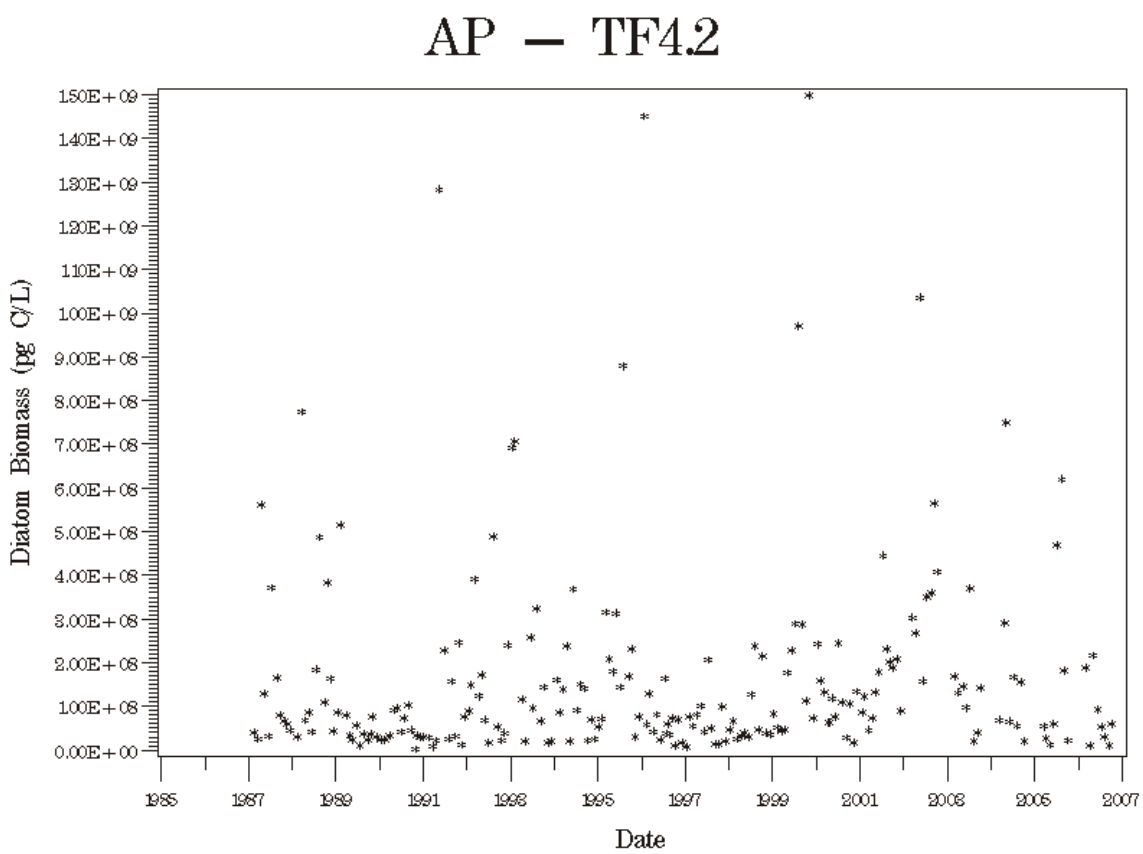


Figure F49. Plot of above pycnocline diatom biomass against time at station TF4.2 for the period of 1985 through 2005.

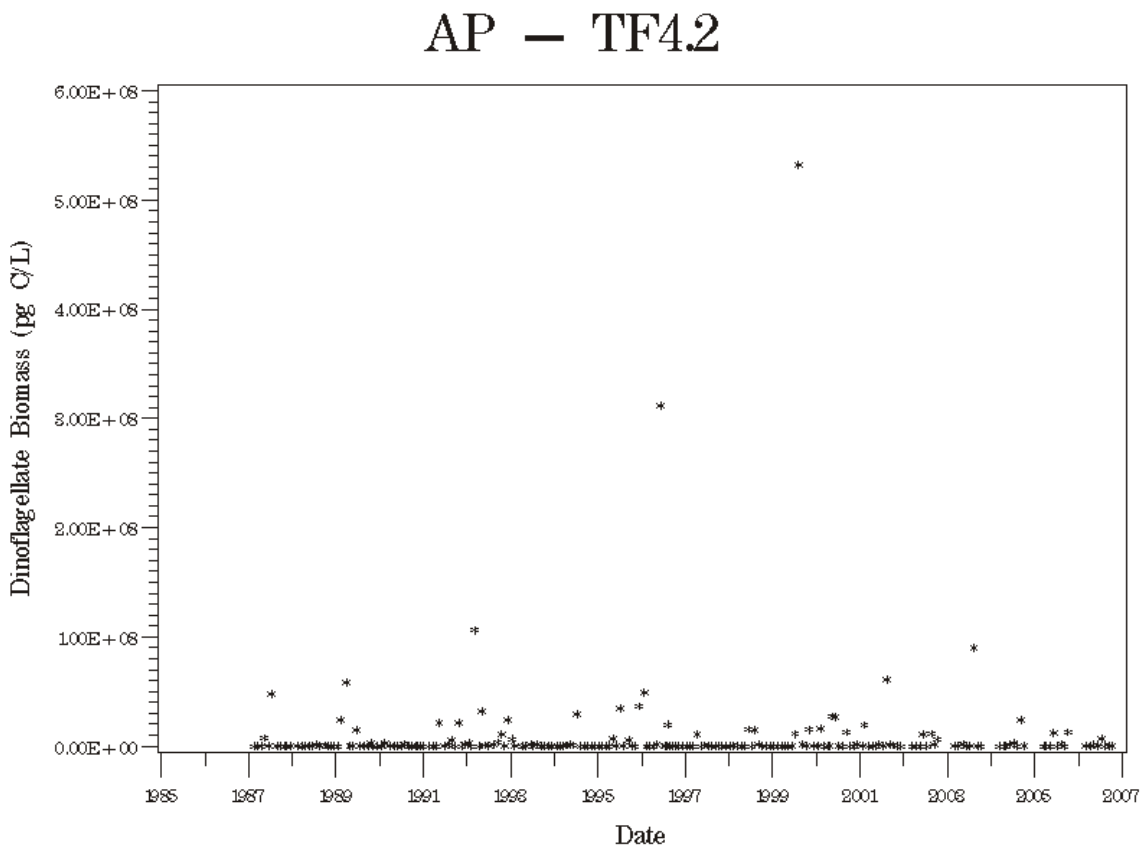


Figure F50. Plot of above pycnocline dinoflagellate biomass against time at station TF4.2 for the period of 1985 through 2005.

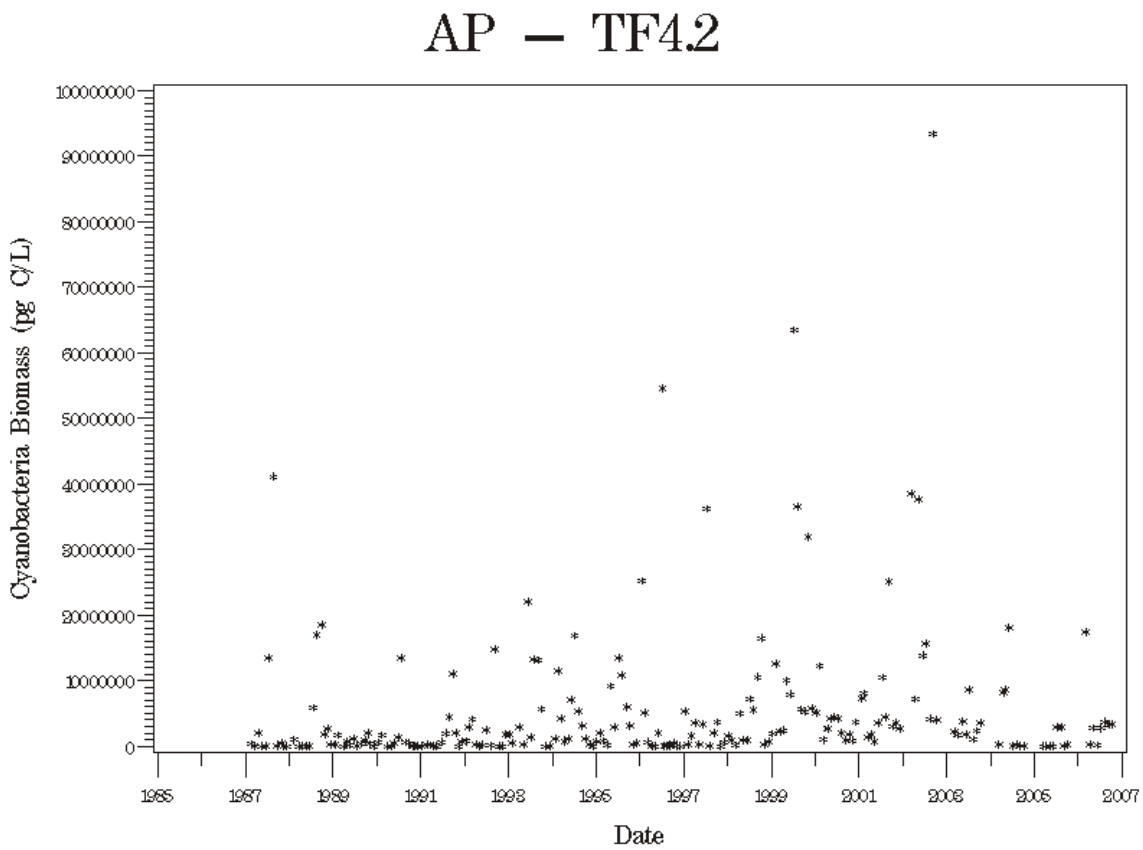


Figure F51. Plot of above pycnocline cyanobacteria biomass against time at station TF4.2 for the period of 1985 through 2005.

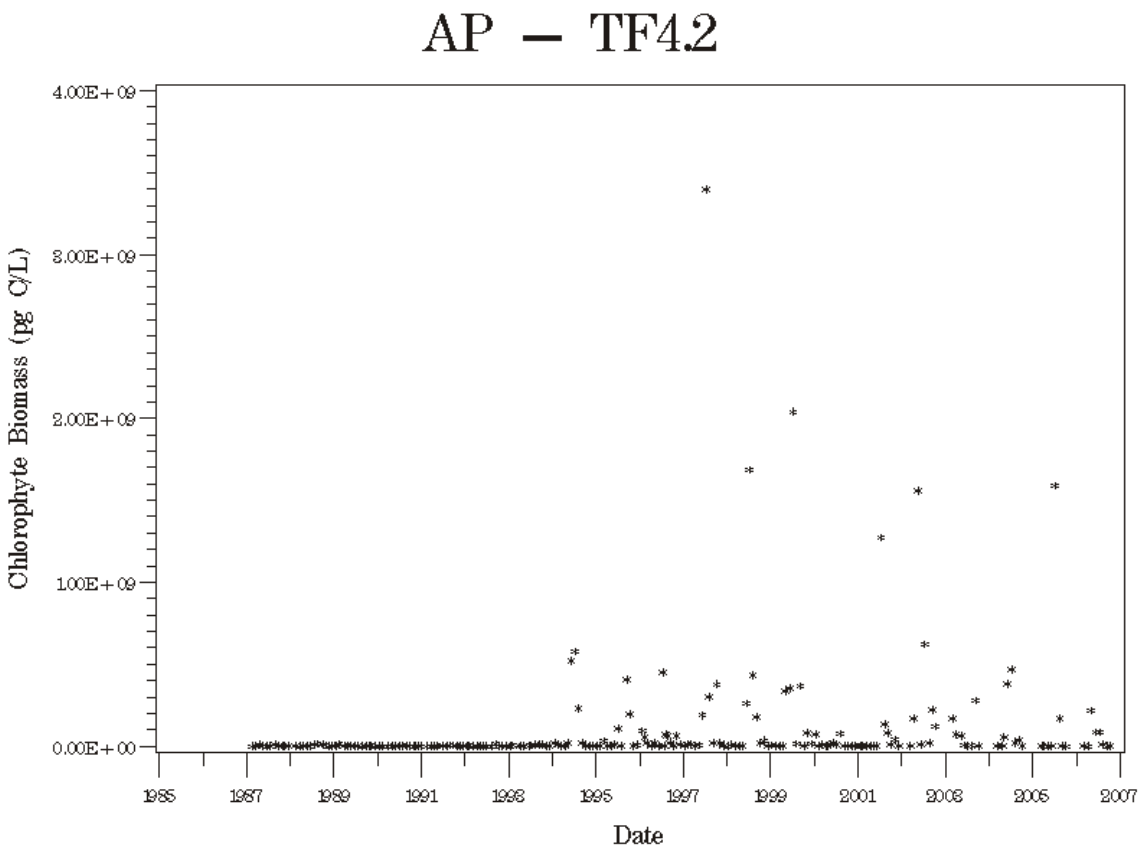


Figure F52. Plot of above pycnocline chlorophyte biomass against time at station TF4.2 for the period of 1985 through 2005.

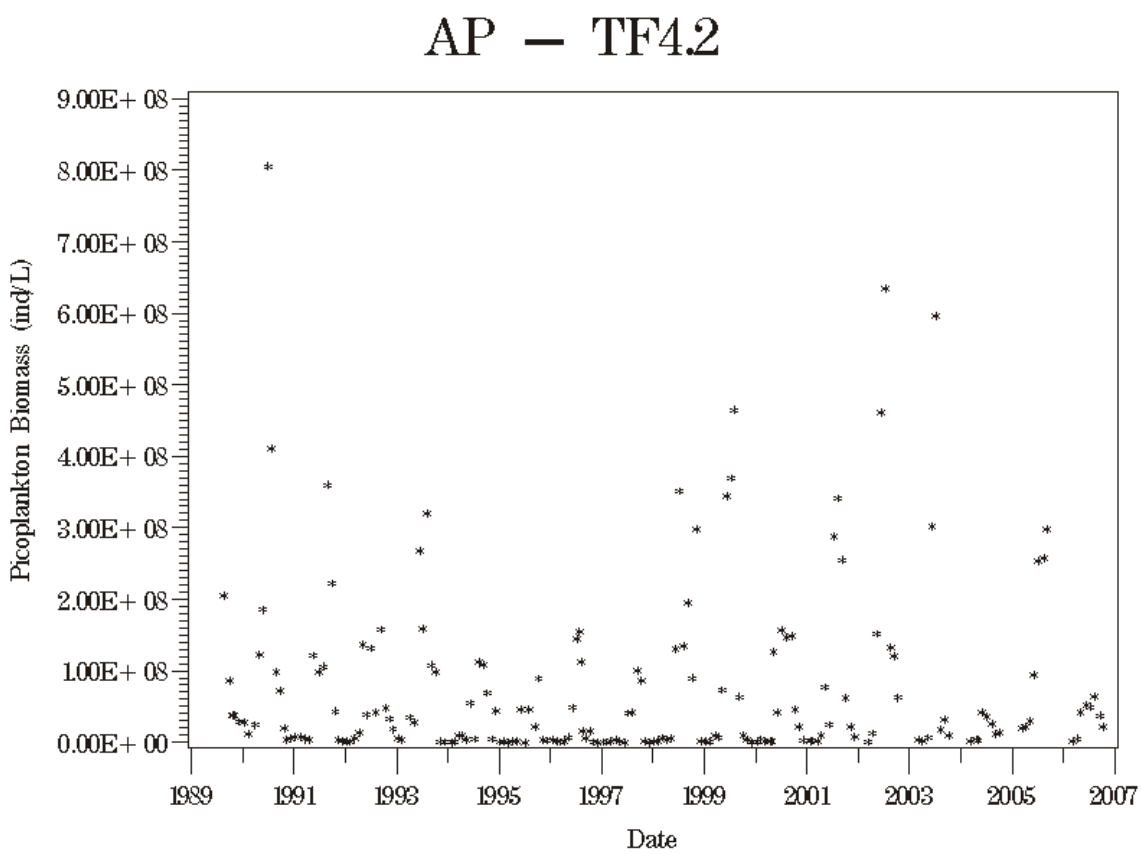


Figure F53. Plot of above pycnocline picoplankton biomass against time at station TF4.2 for the period of 1985 through 2005.

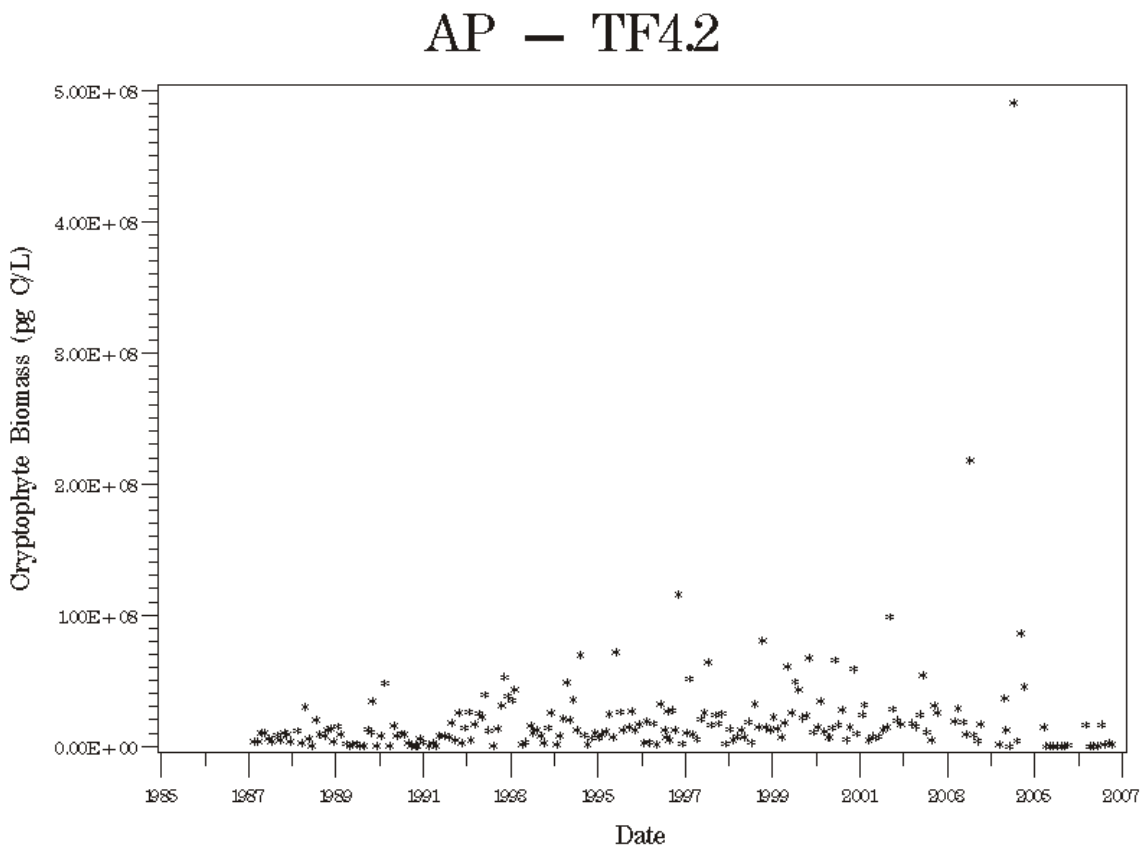


Figure F54. Plot of above pycnocline cryptophyte biomass at station TF4.2 for the period of 1985 through 2005.

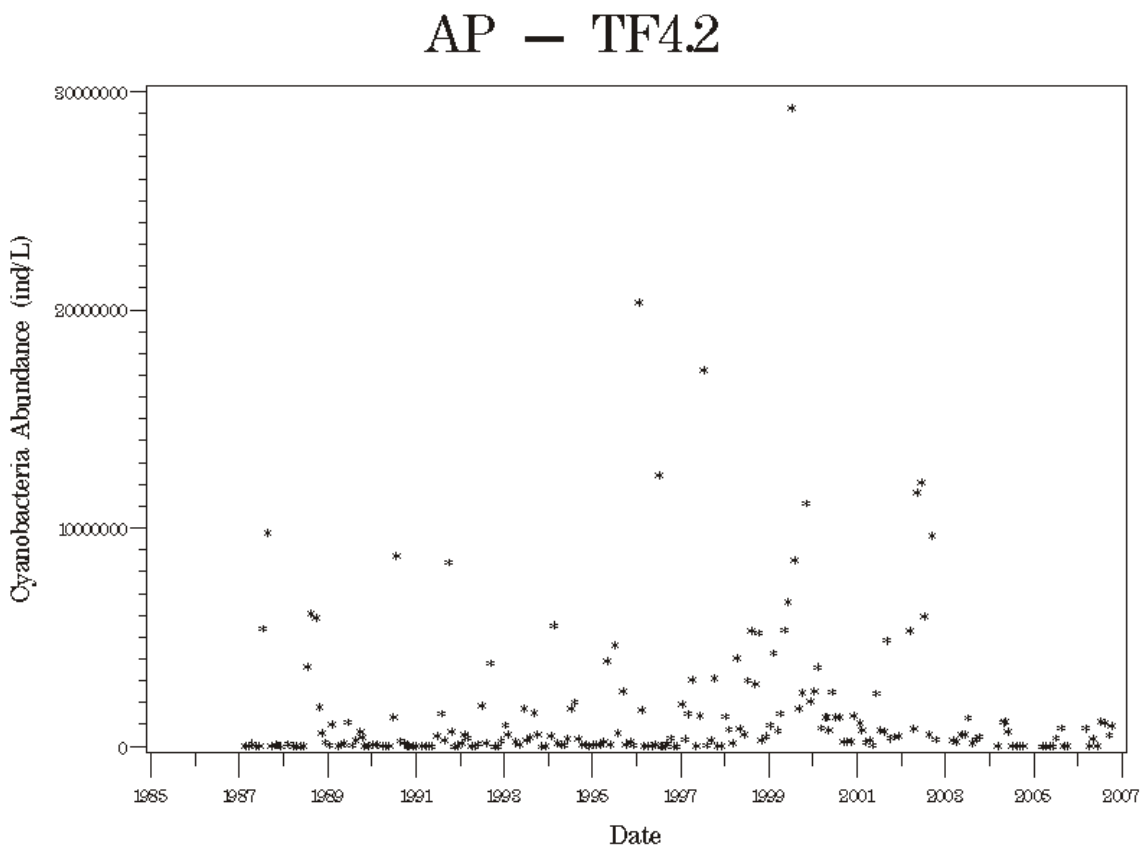


Figure F55. Plot of above pycnocline cyanophyte abundance at station TF4.2 for the period of 1985 through 2005.

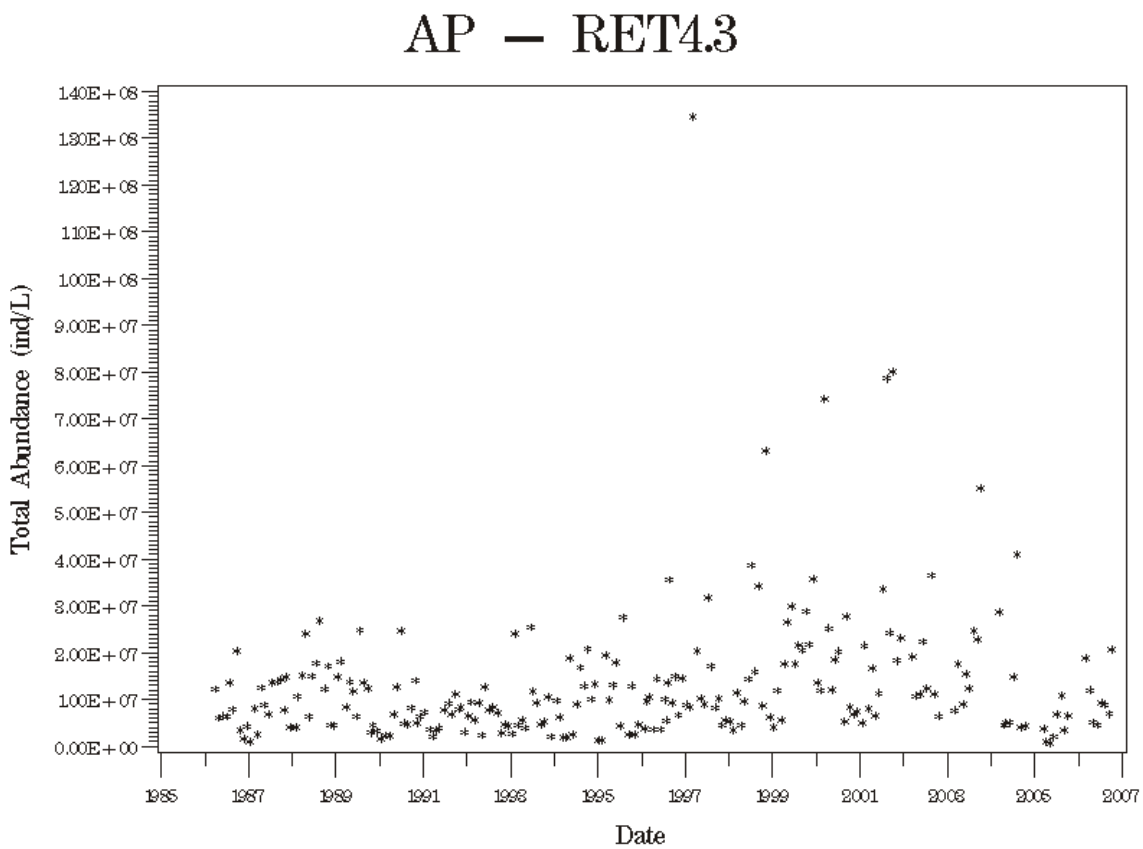


Figure F56. Plot of above pycnocline total phytoplankton abundance against time at station RET4.3 for the period of 1985 through 2005.

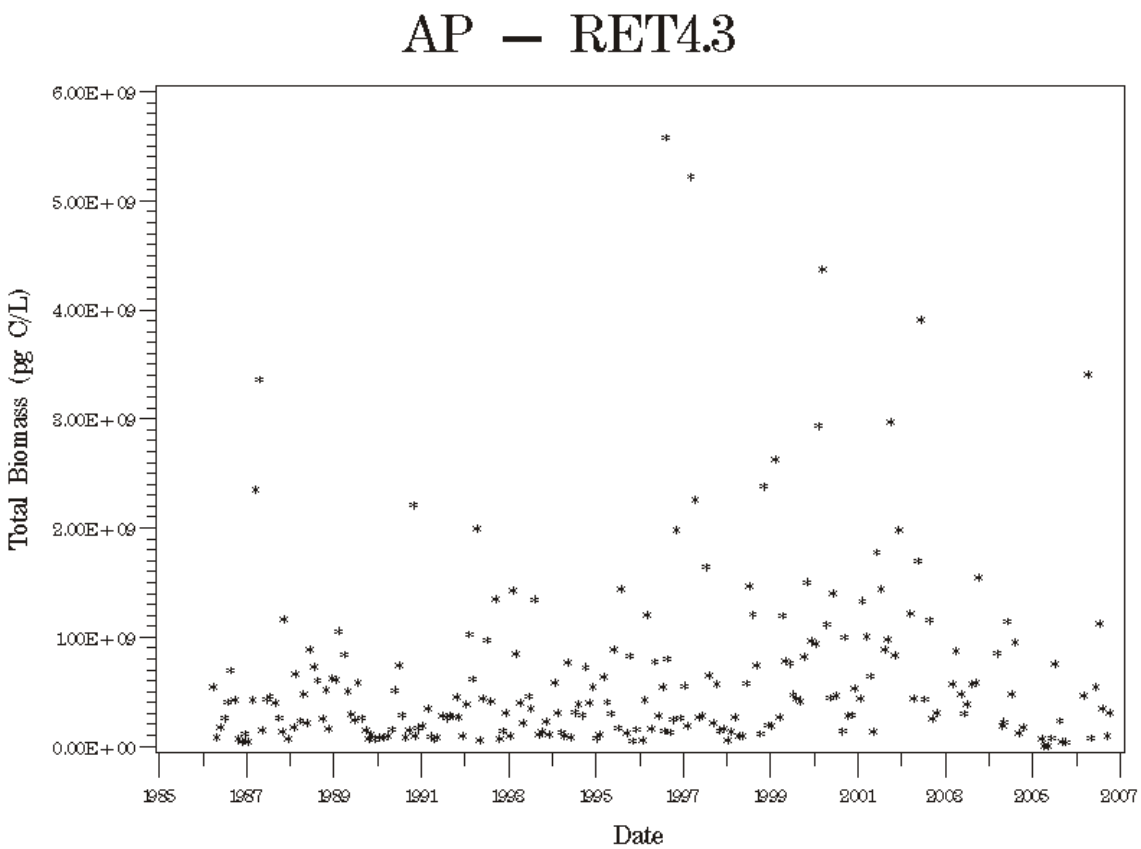


Figure F57. Plot of above pycnocline total phytoplankton biomass against time at station RET4.3 for the period of 1985 through 2005.

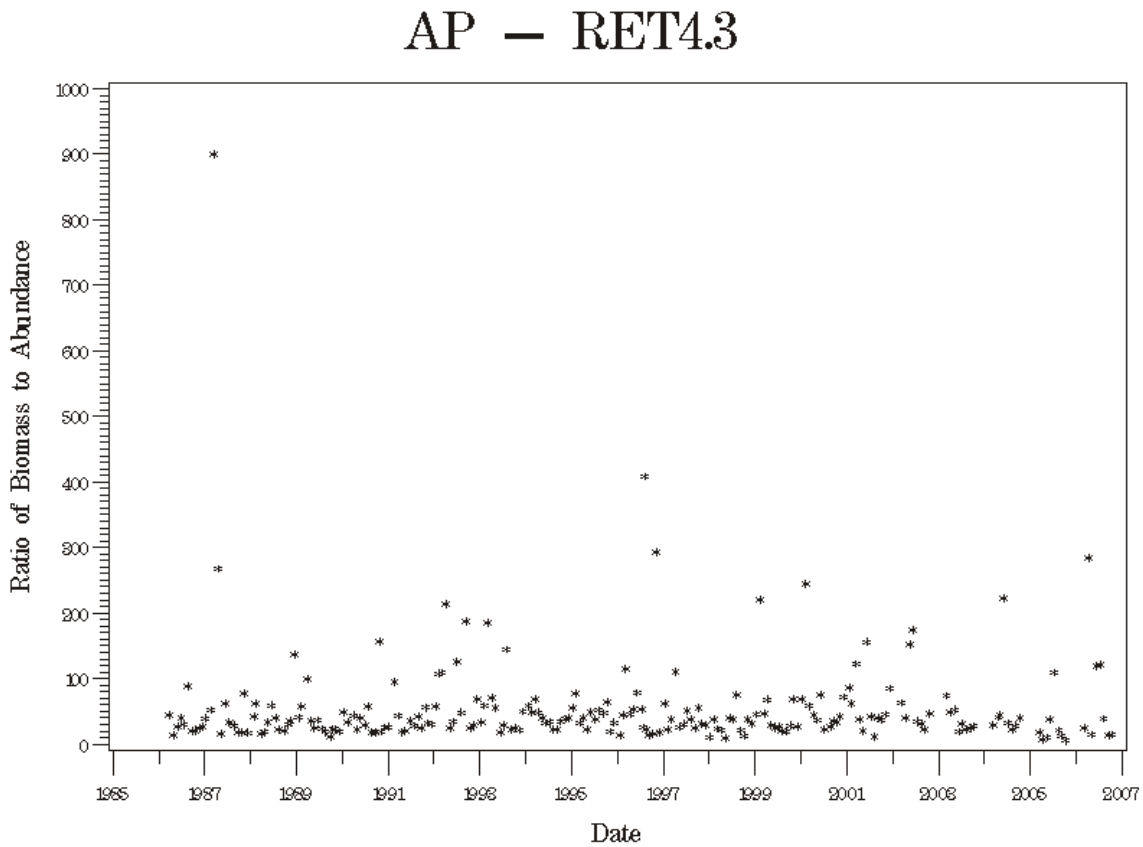


Figure F58. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET4.3 for the period of 1985 through 2005.

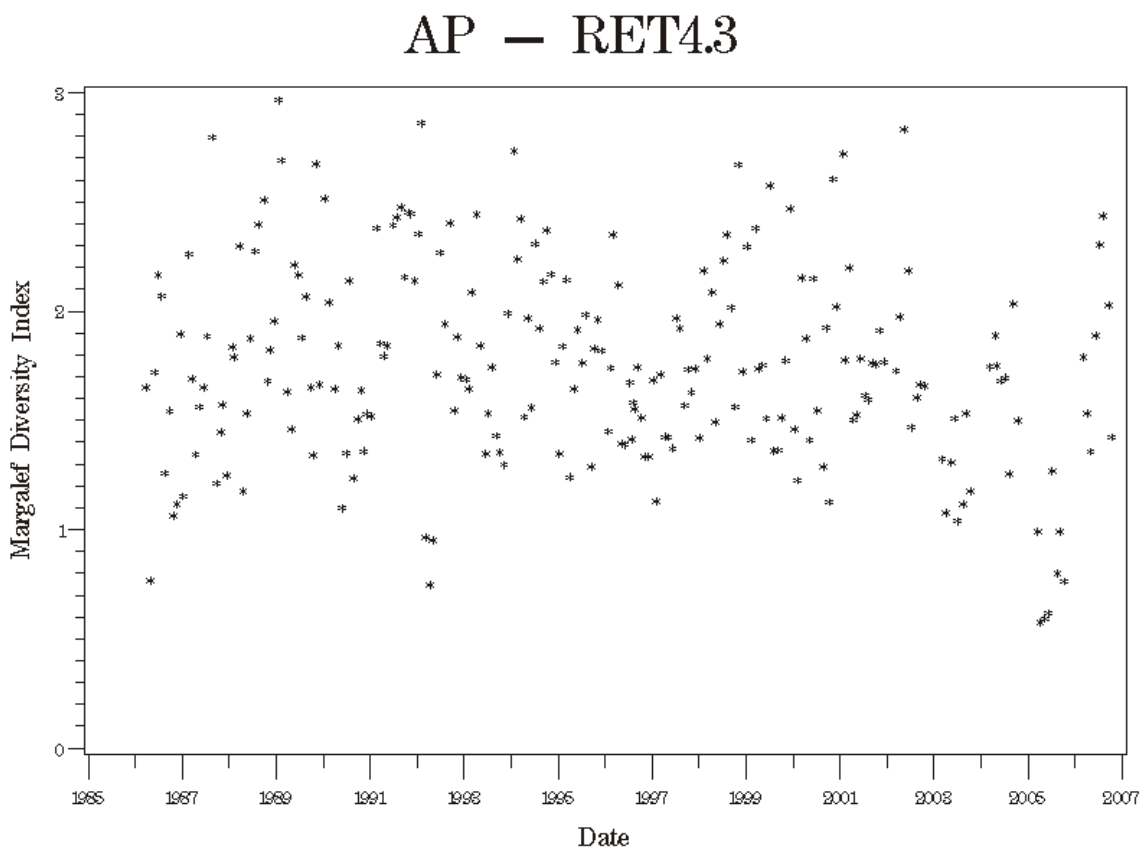


Figure F59. Plot of above pycnocline Margalef diversity index against time at station RET4.3 for the period of 1985 through 2005.

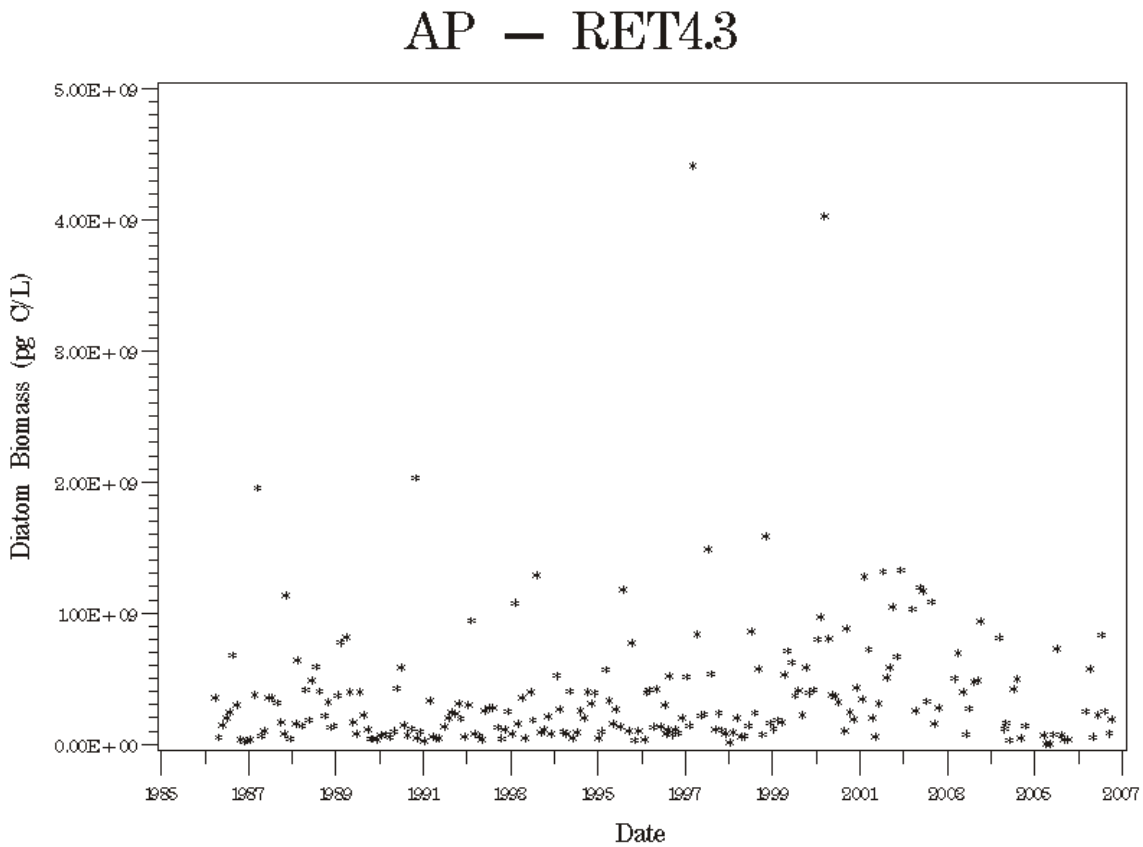


Figure F60. Plot of above pycnocline diatom biomass against time at station RET4.3 for the period of 1985 through 2005.

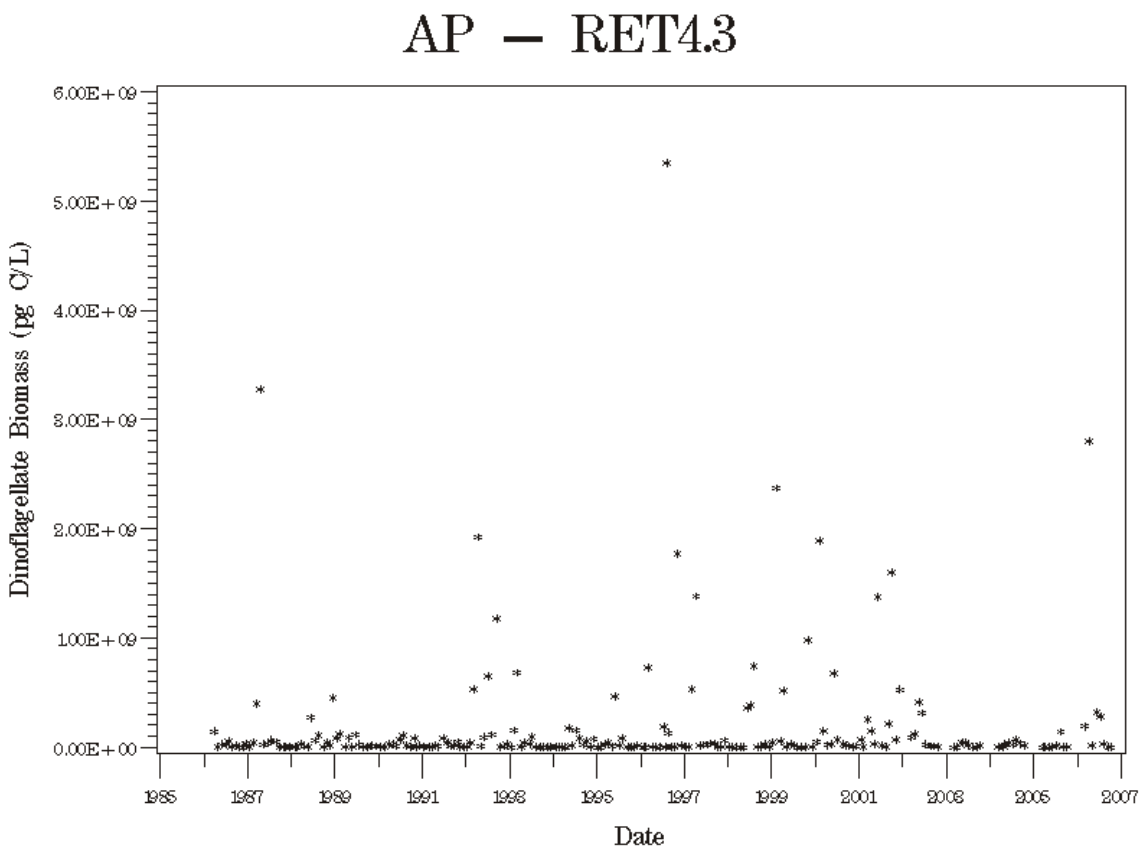


Figure F61. Plot of above pycnocline dinoflagellate biomass against time at station RET4.3 for the period of 1985 through 2005.

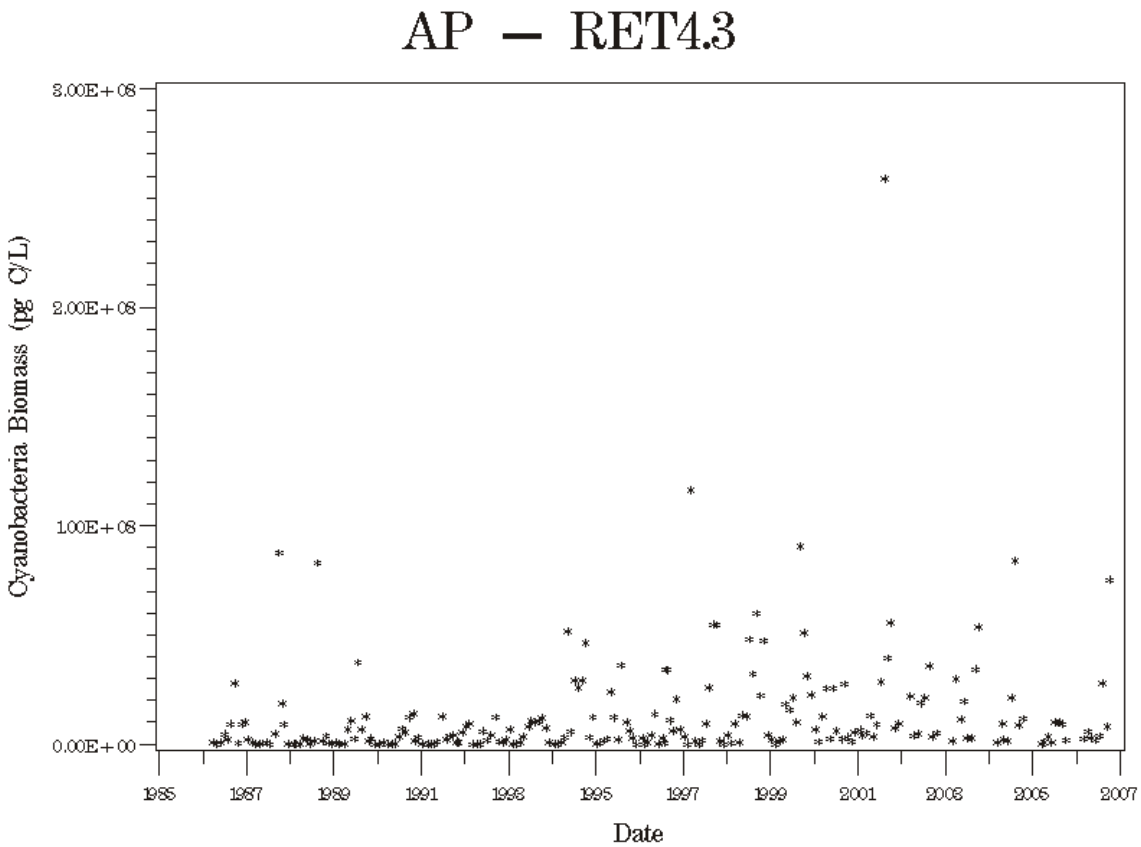


Figure F62. Plot of above pycnocline cyanobacteria biomass against time at station RET4.3 for the period of 1985 through 2005.

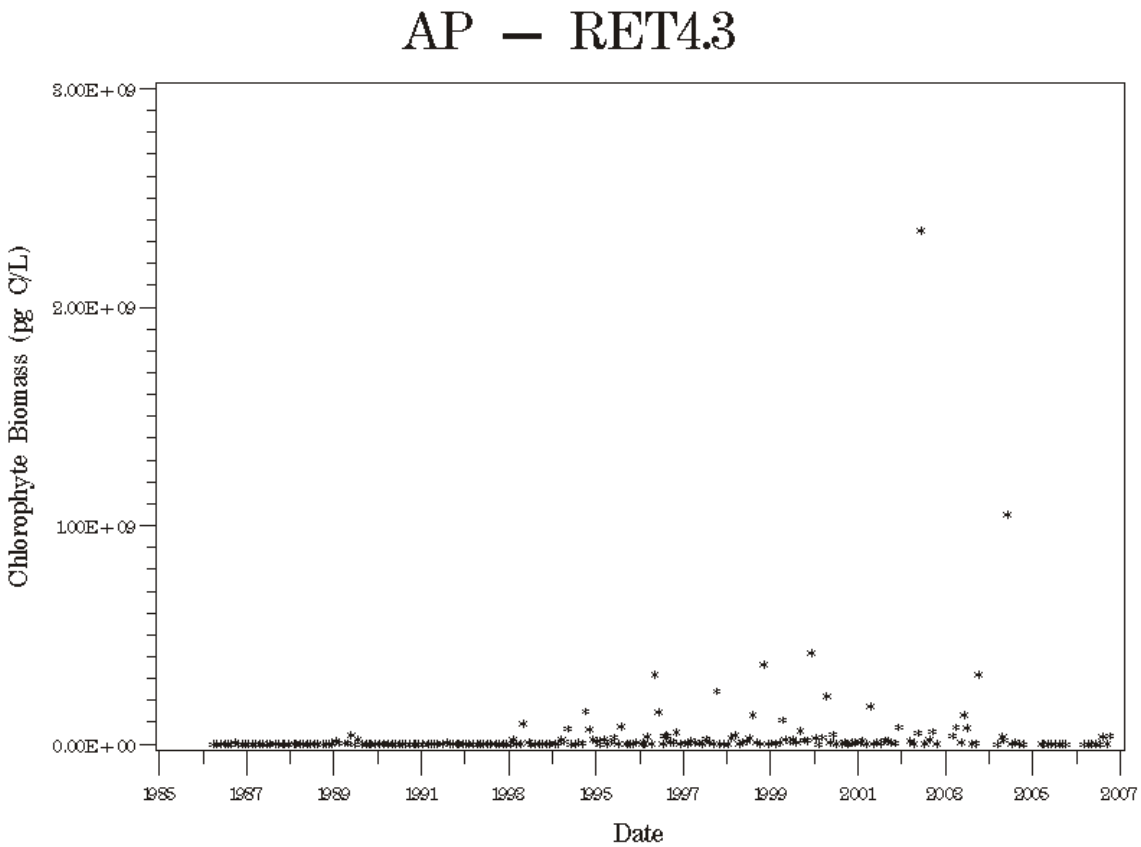


Figure F63. Plot of above pycnocline chlorophyte biomass against time at station RET4.3 for the period of 1985 through 2005.

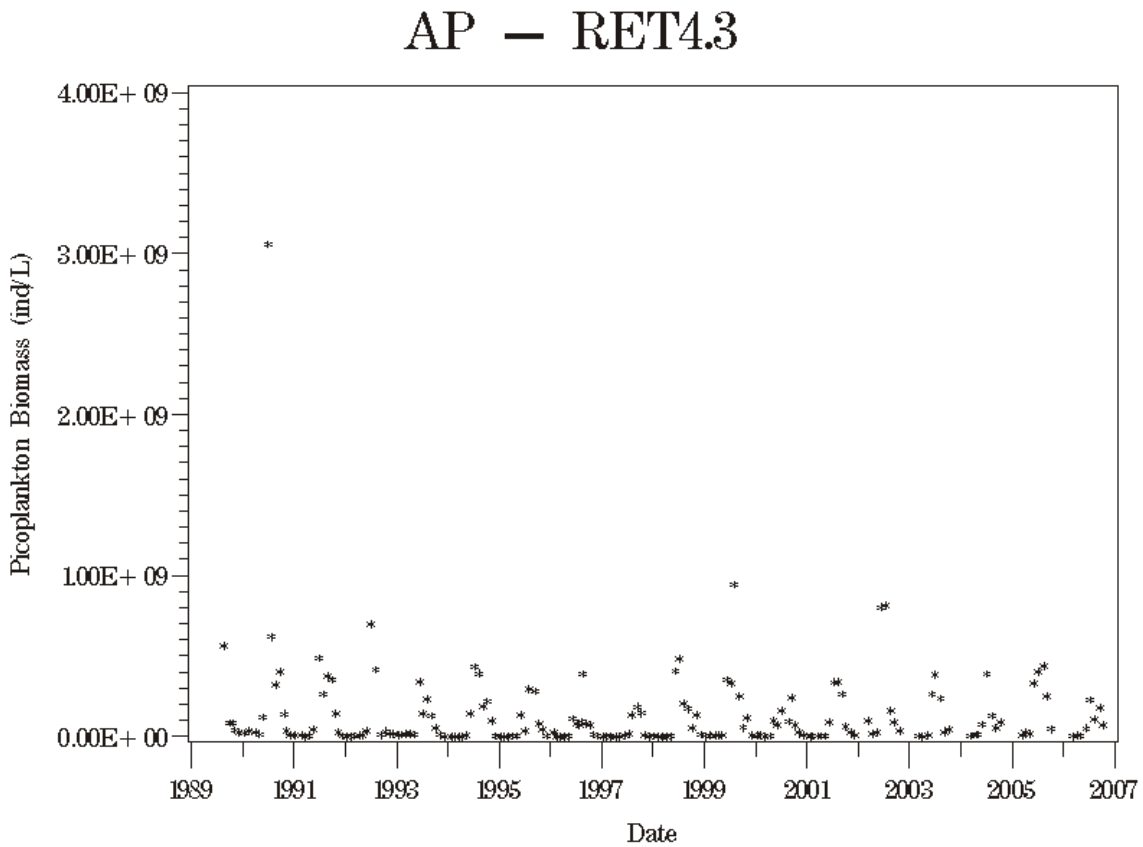


Figure F64. Plot of above pycnocline picoplankton biomass against time at station RET4.3 for the period of 1985 through 2005.

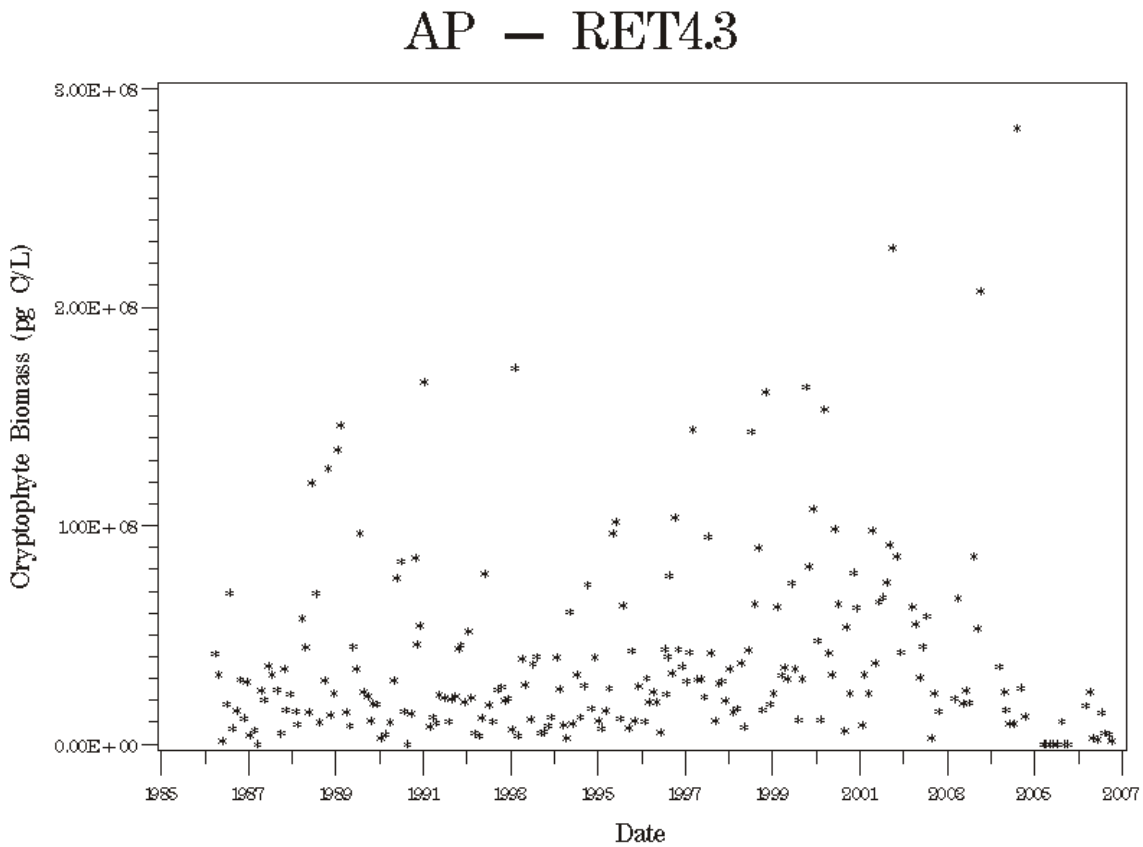


Figure F65. Plot of above pycnocline cryptophyte biomass at station RET4.3 for the period of 1985 through 2005.

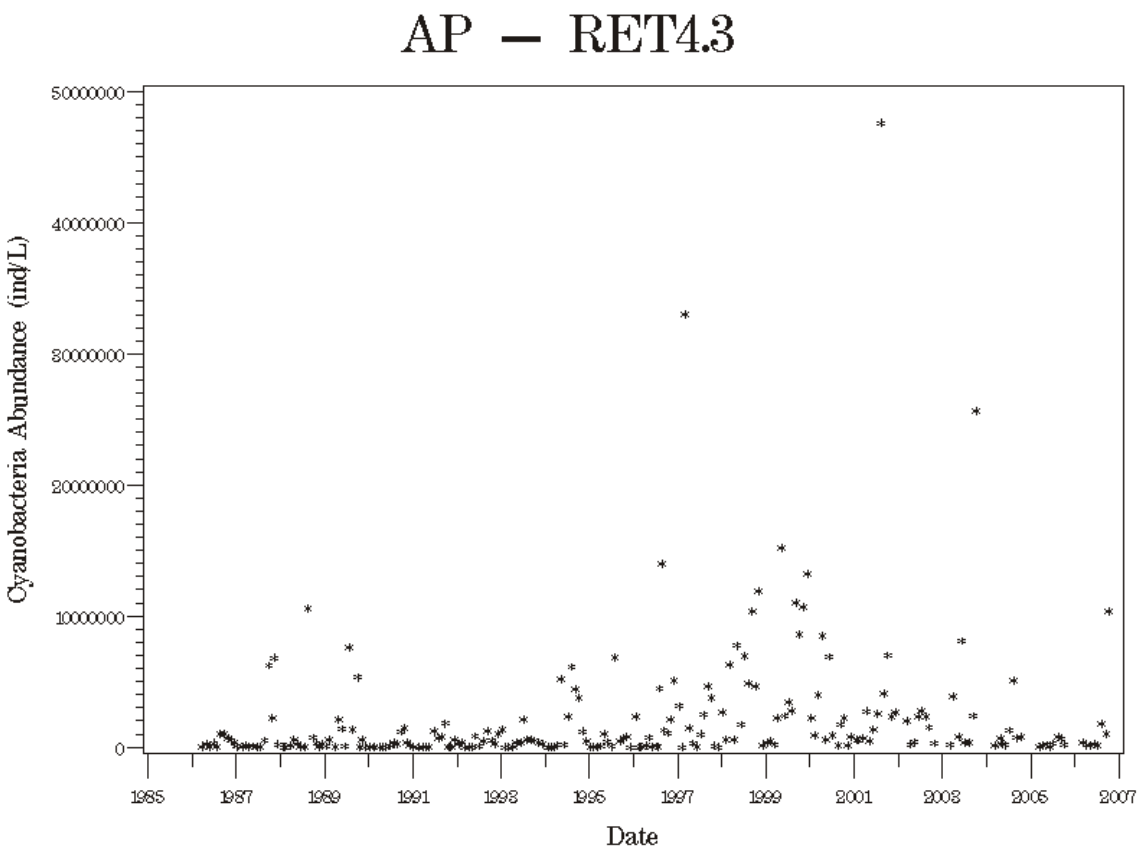


Figure F66. Plot of above pycnocline cyanophyte abundance at station RET4.3 for the period of 1985 through 2005.

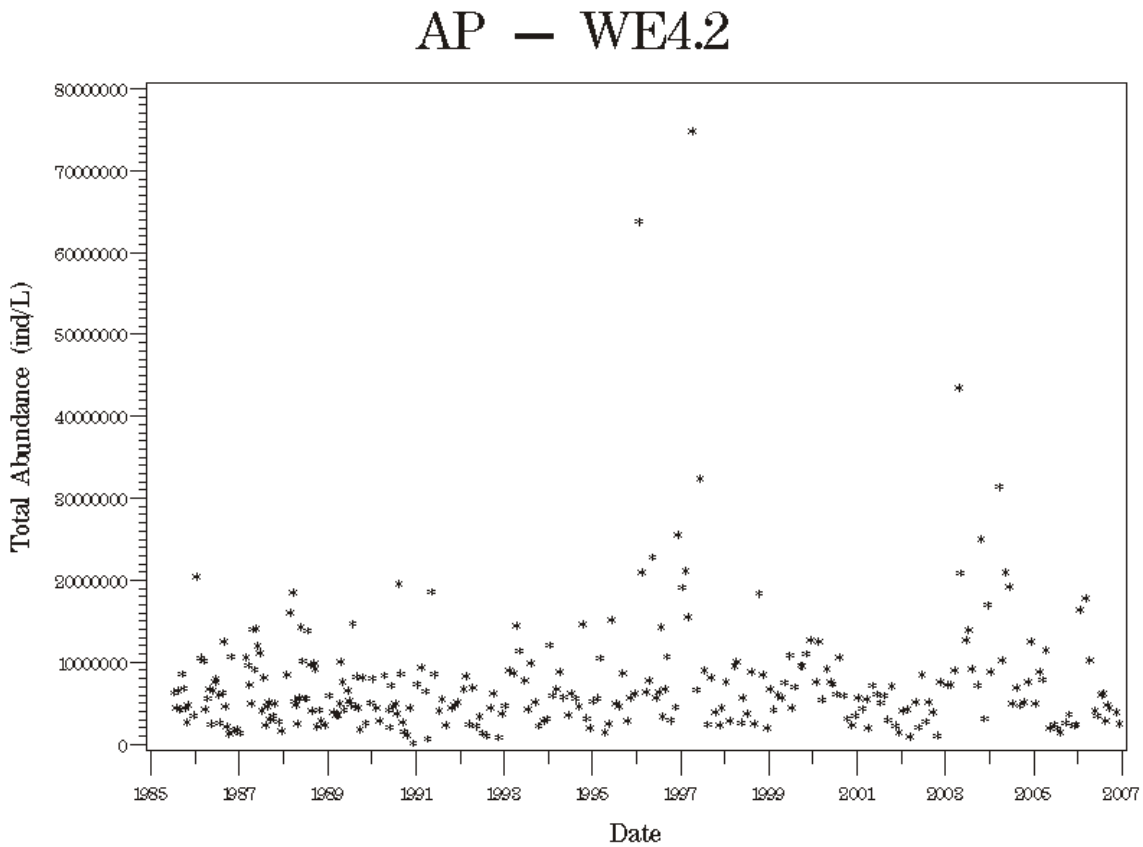


Figure F67. Plot of above pycnocline total phytoplankton abundance against time at station WE4.2 for the period of 1985 through 2005.

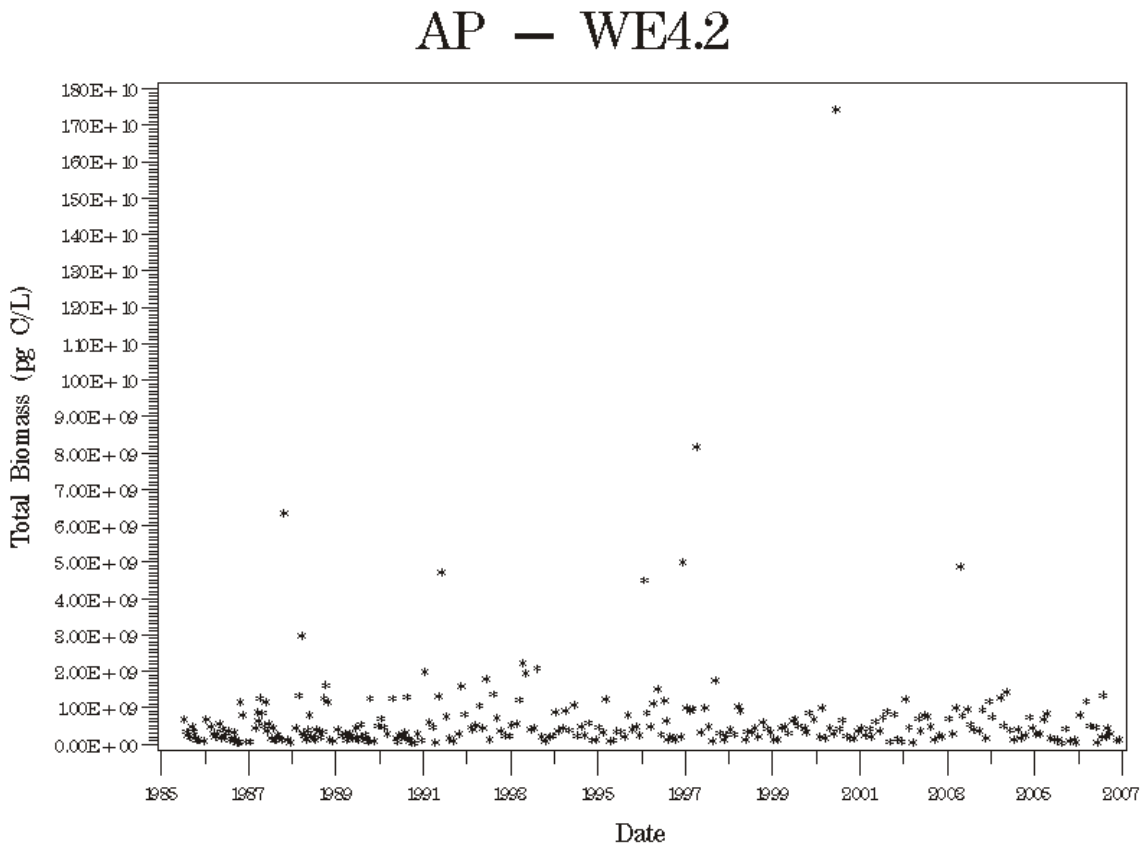


Figure F68. Plot of above pycnocline total phytoplankton biomass against time at station WE4.2 for the period of 1985 through 2005.

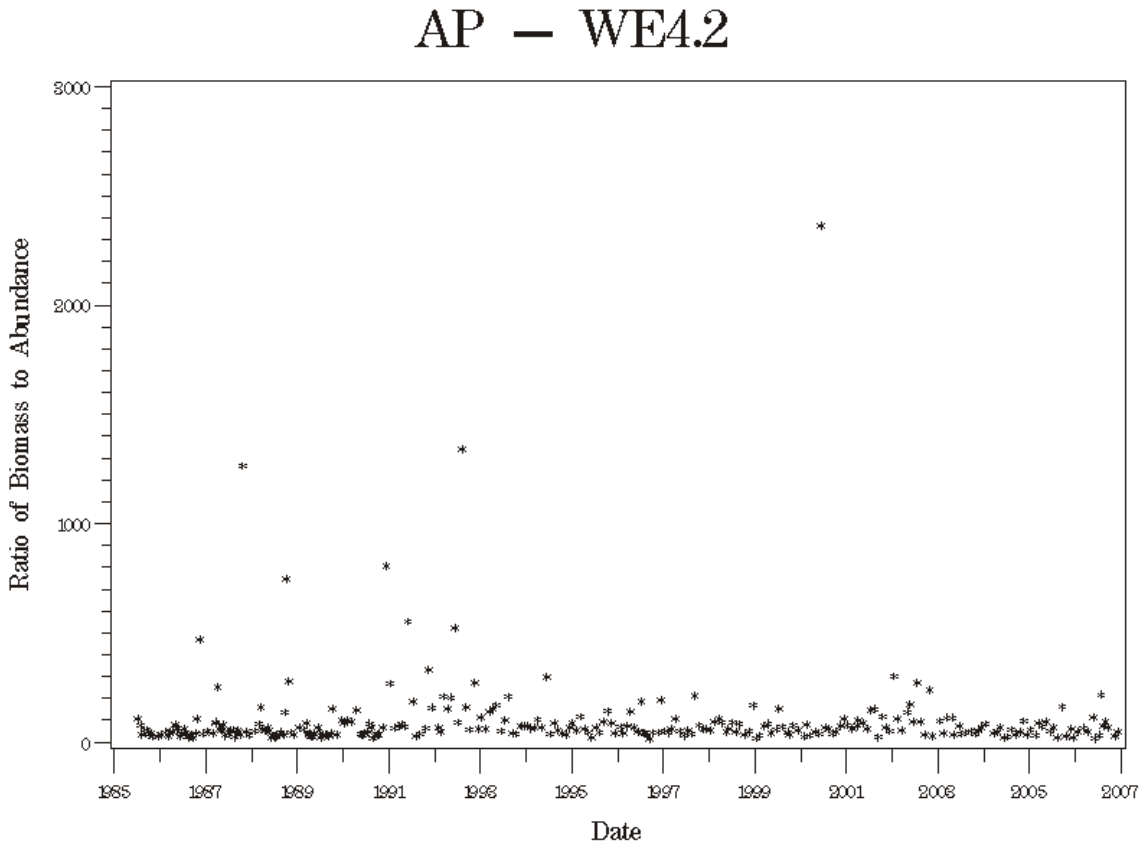


Figure F69. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station WE4.2 for the period of 1985 through 2005.

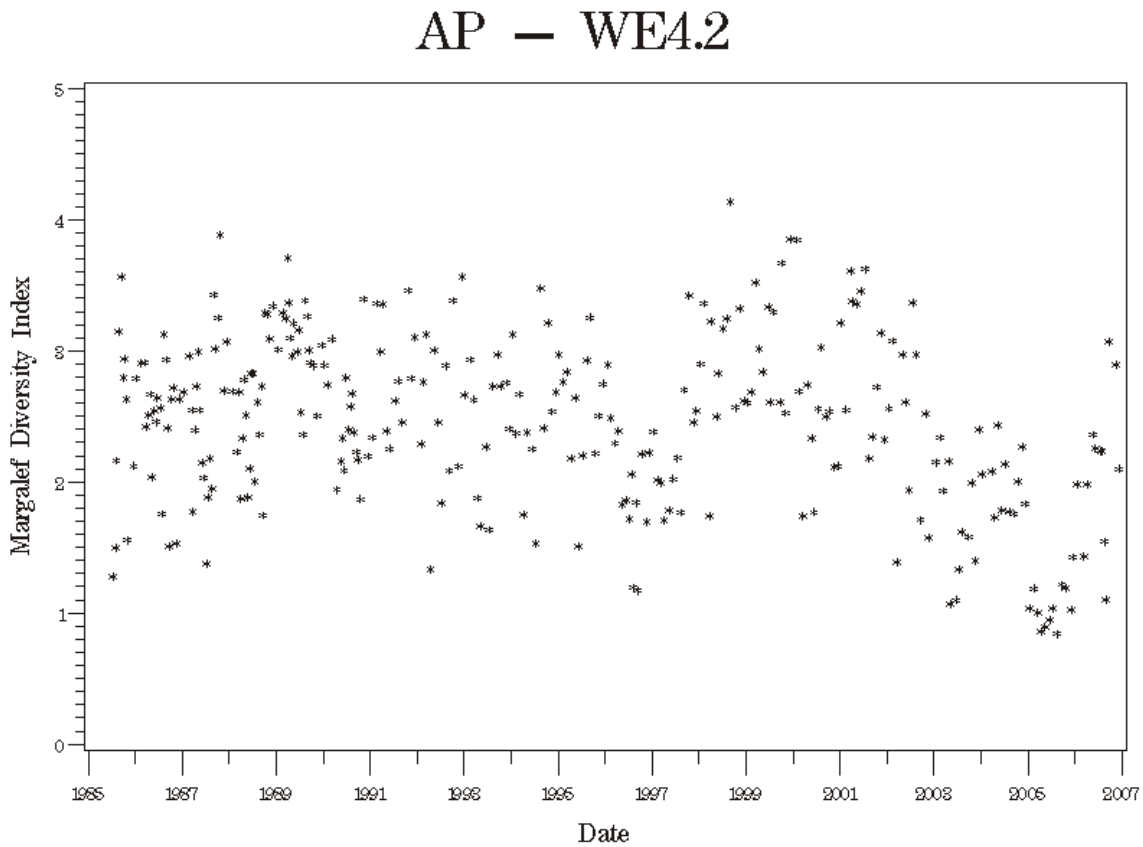


Figure F70. Plot of above pycnocline Margalef diversity index against time at station WE4.2 for the period of 1985 through 2005.

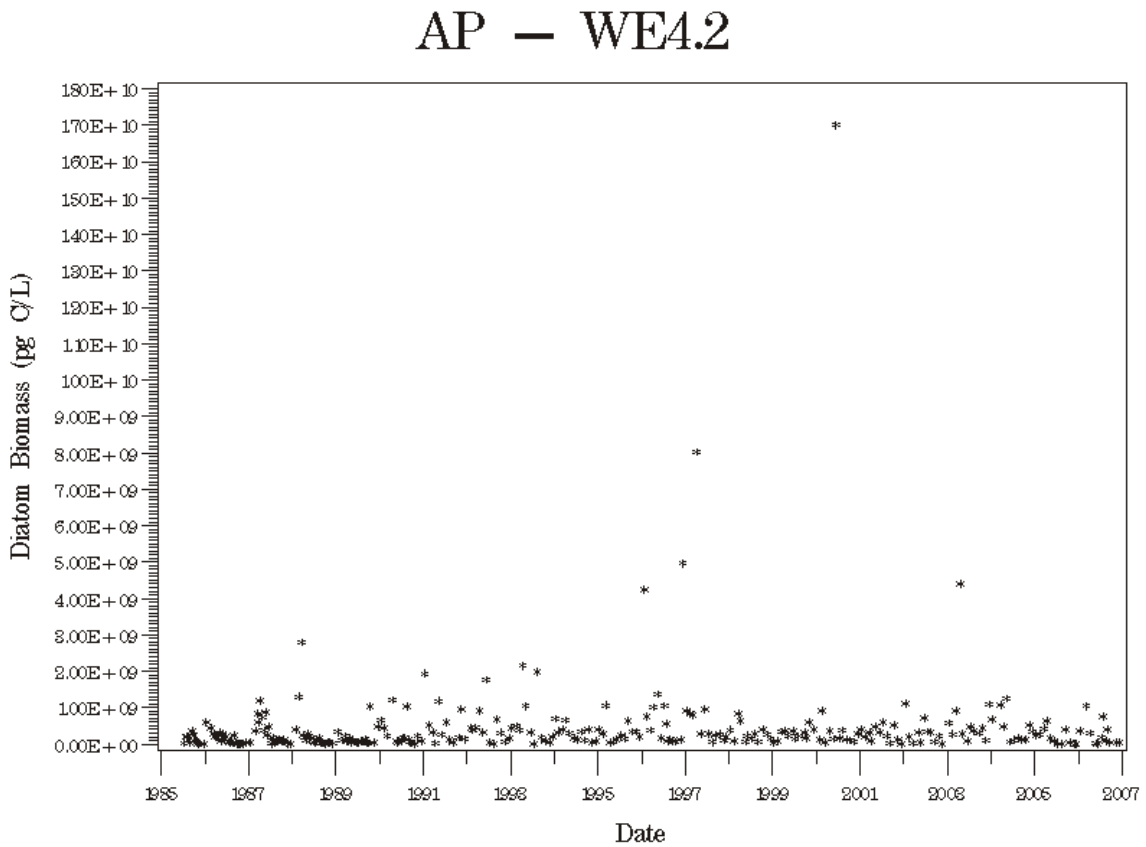


Figure F71. Plot of above pycnocline diatom biomass against time at station WE4.2 for the period of 1985 through 2005.

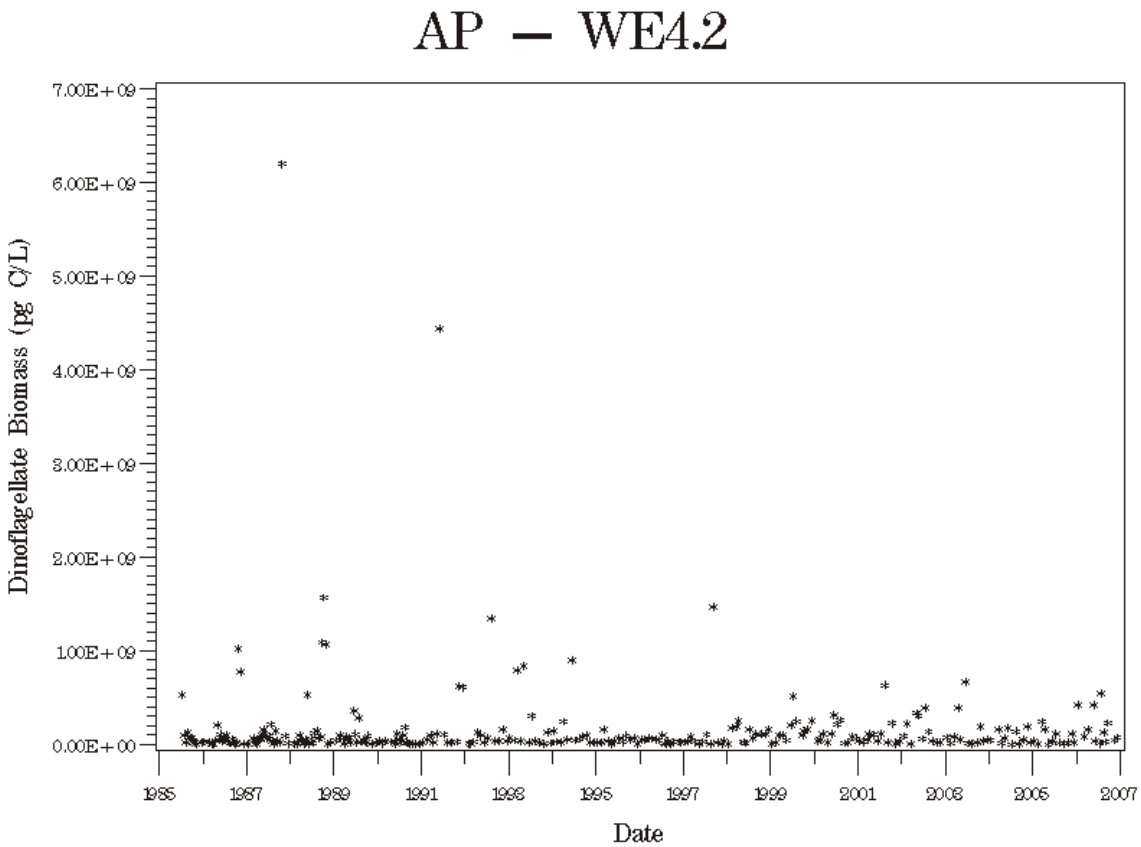


Figure F72. Plot of above pycnocline dinoflagellate biomass against time at station WE4.2 for the period of 1985 through 2005.

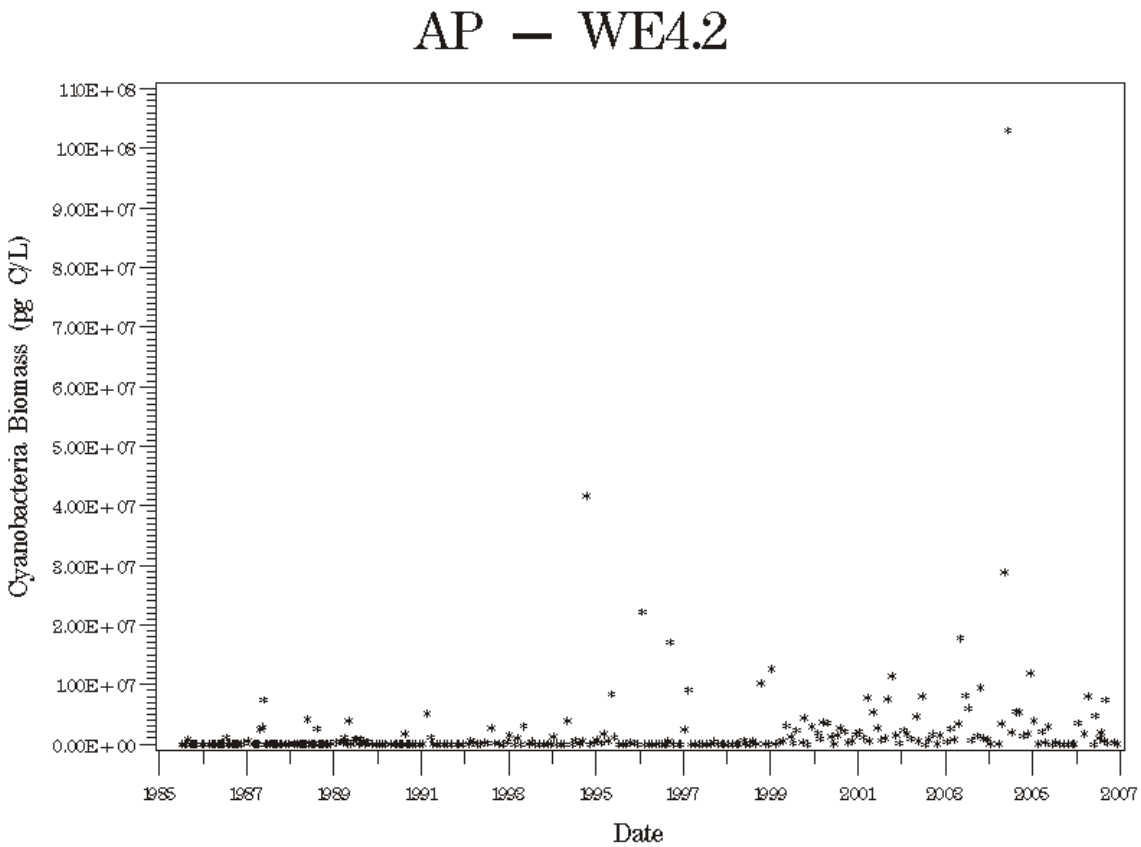


Figure F73. Plot of above pycnocline cyanobacteria biomass against time at station WE4.2 for the period of 1985 through 2005.

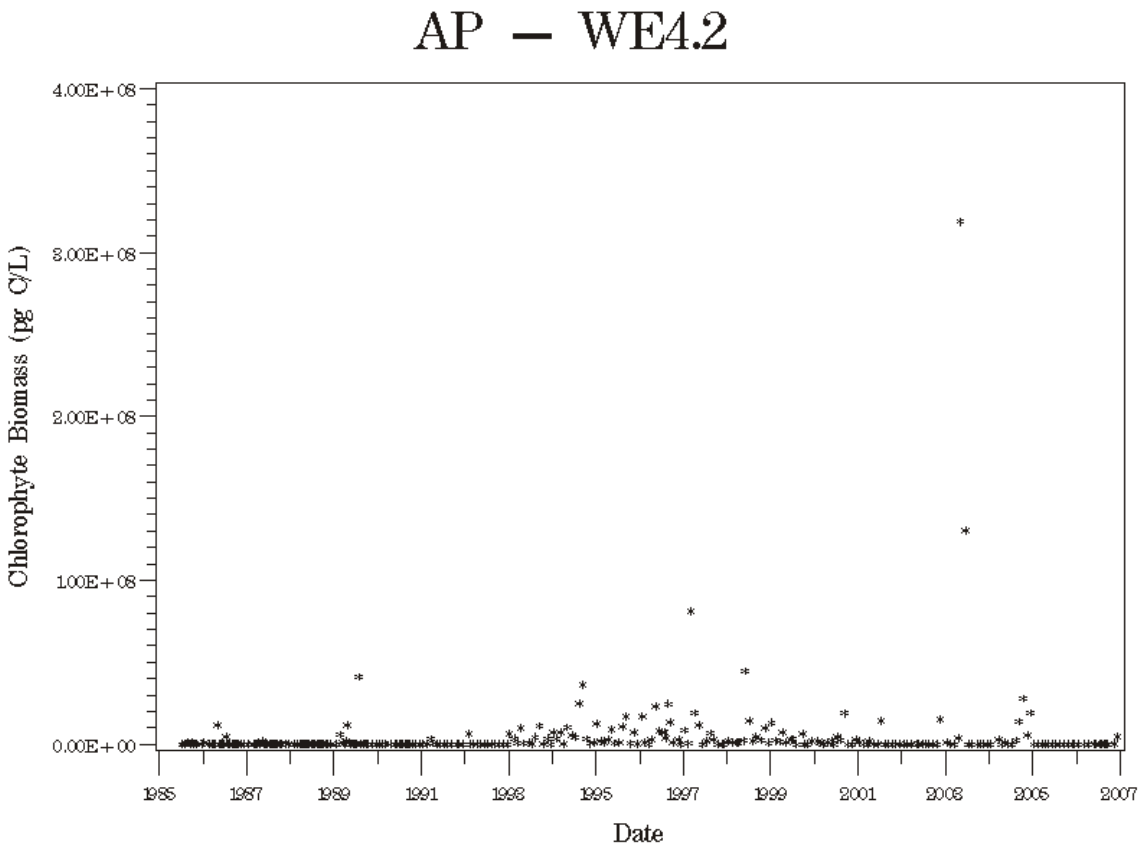


Figure F74. Plot of above pycnocline chlorophyte biomass against time at station WE4.2 for the period of 1985 through 2005.

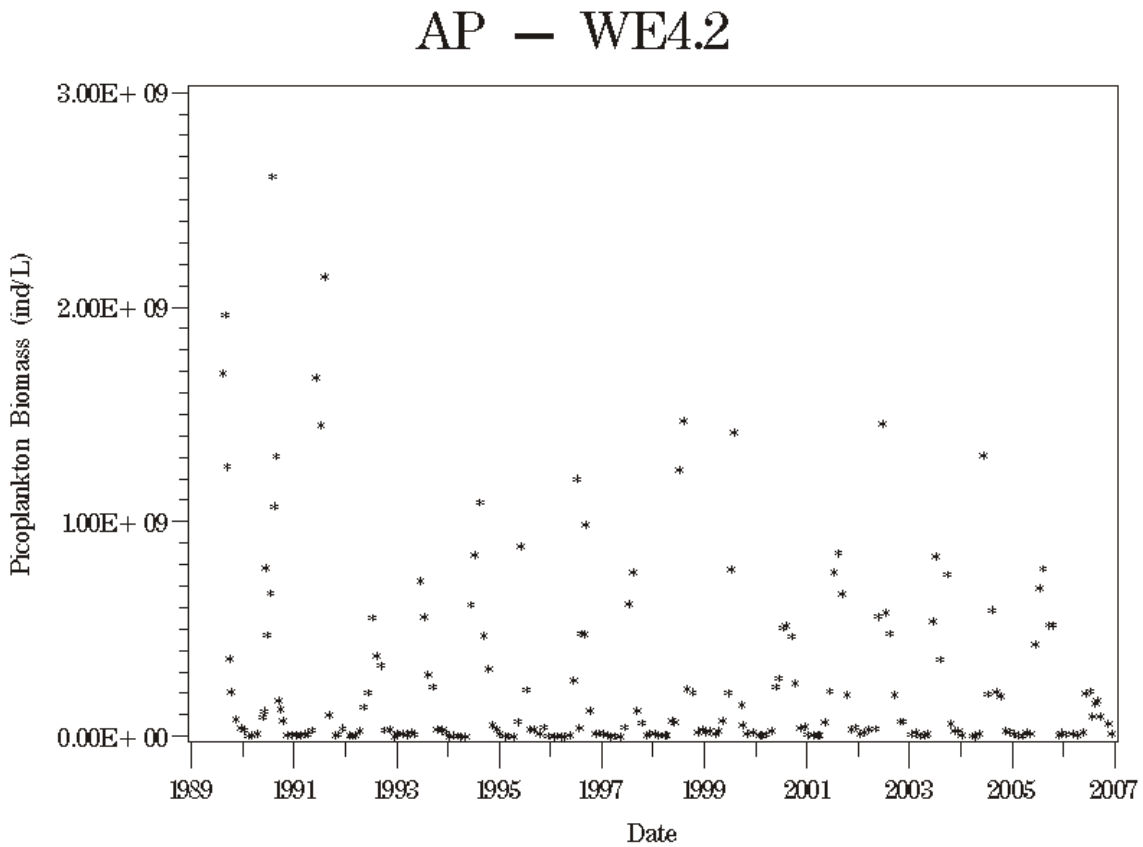


Figure F75. Plot of above pycnocline picoplankton biomass against time at station WE4.2 for the period of 1985 through 2005.

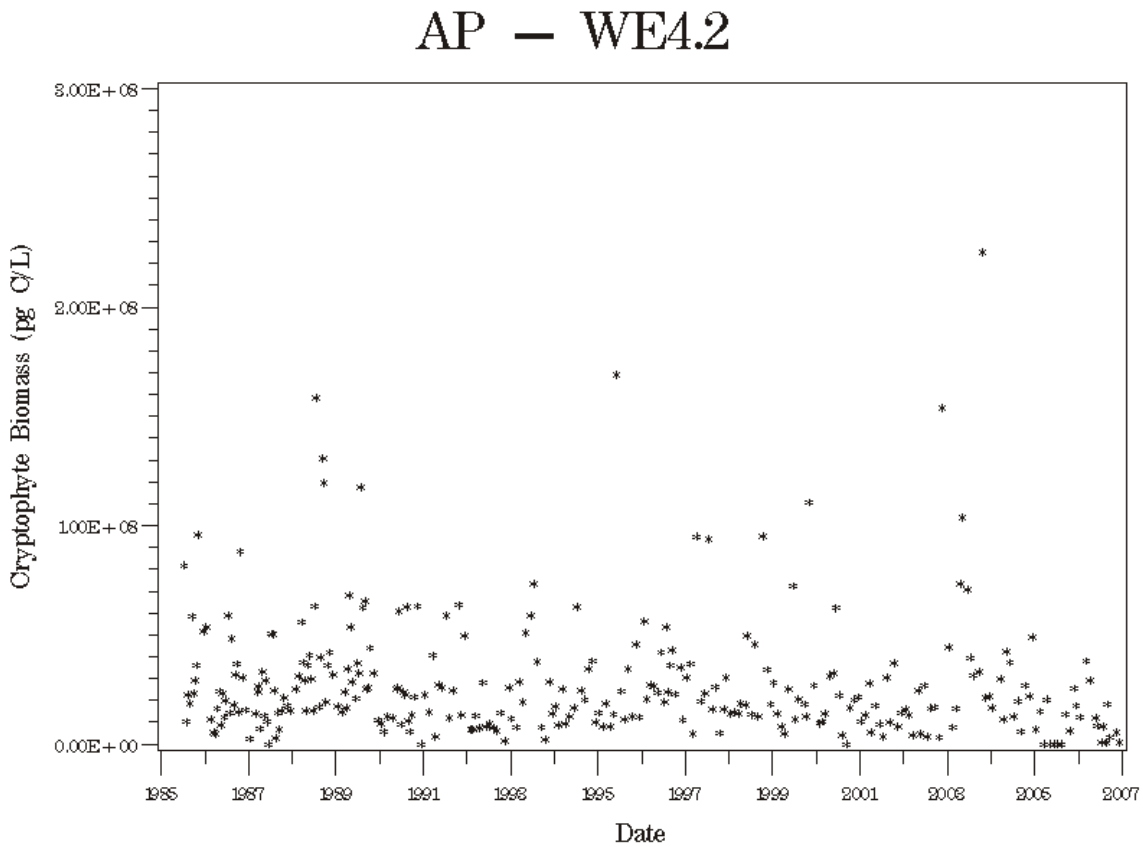


Figure F76. Plot of above pycnocline cryptophyte biomass at station WE4.2 for the period of 1985 through 2005.

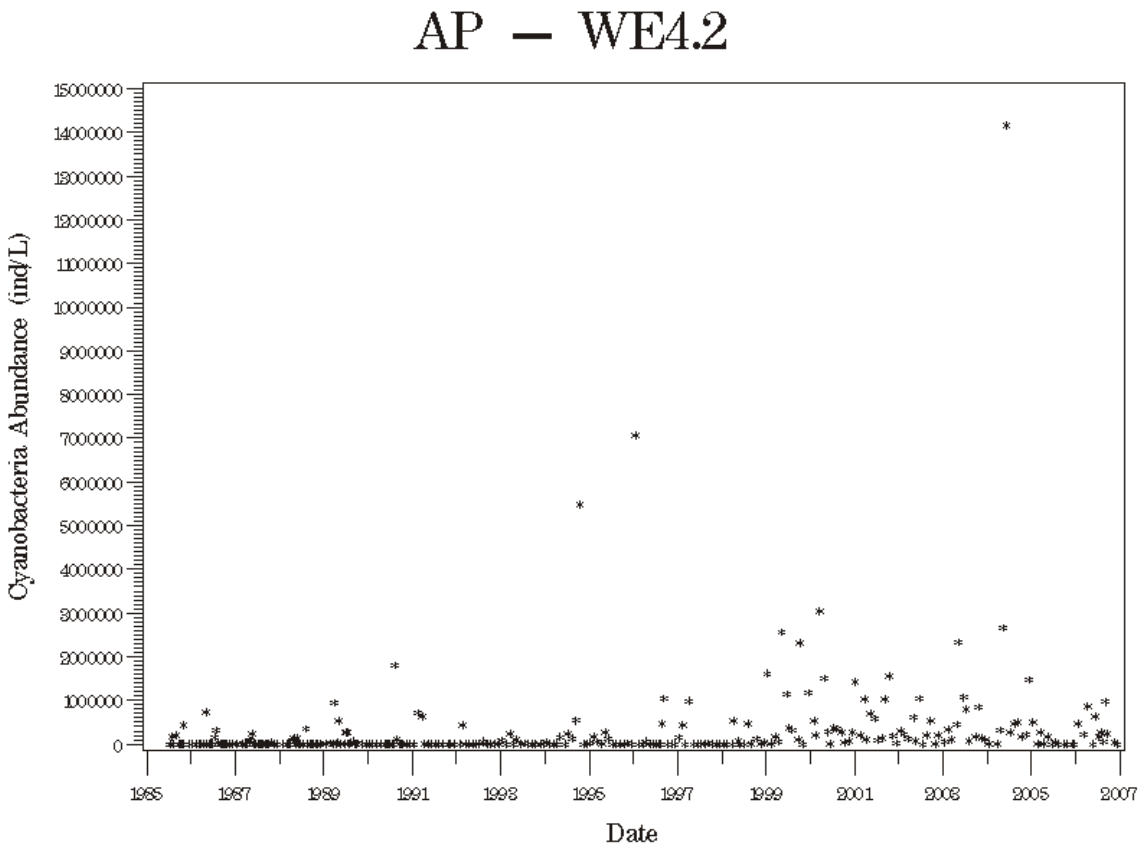


Figure F77. Plot of above pycnocline cyanophyte abundance at station WE4.2 for the period of 1985 through 2005.

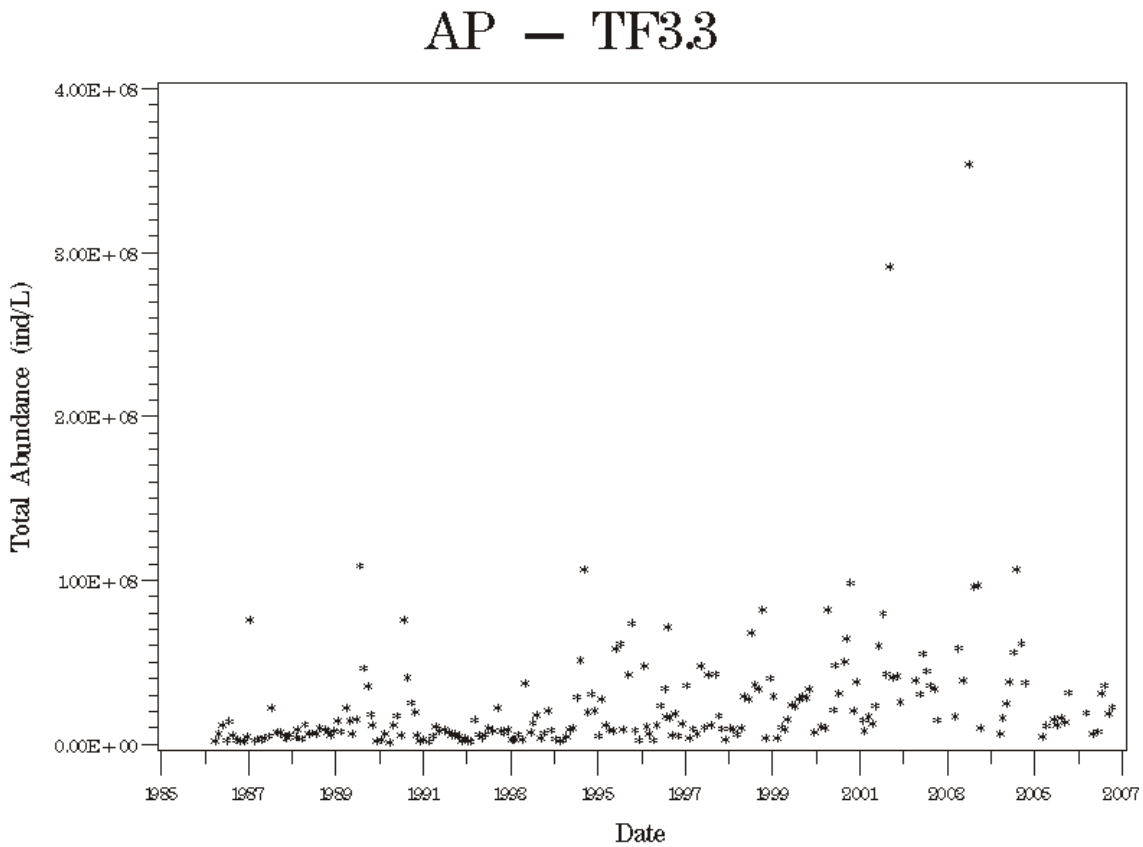


Figure F78. Plot of above pycnocline total phytoplankton abundance against time at station TF3.3 for the period of 1985 through 2005.

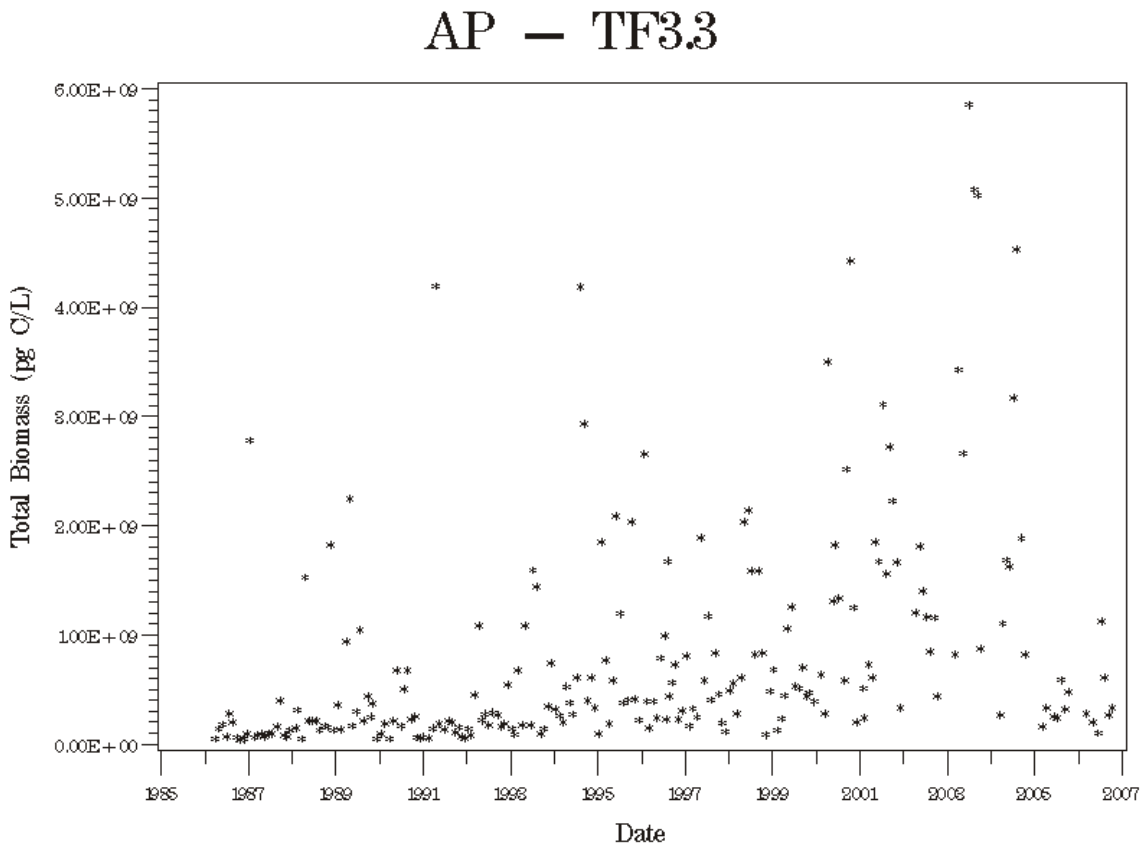


Figure F79. Plot of above pycnocline total phytoplankton biomass against time at station TF3.3 for the period of 1985 through 2005.

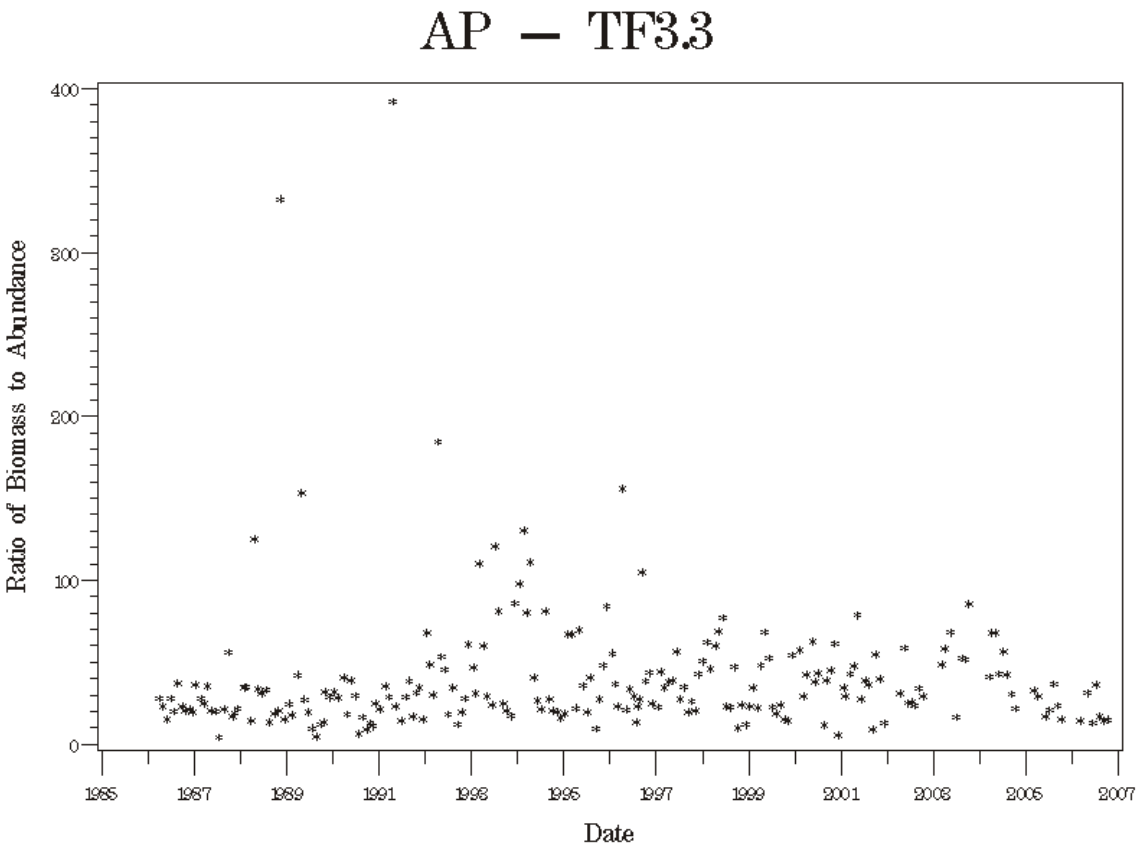


Figure F80. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station TF3.3 for the period of 1985 through 2005.

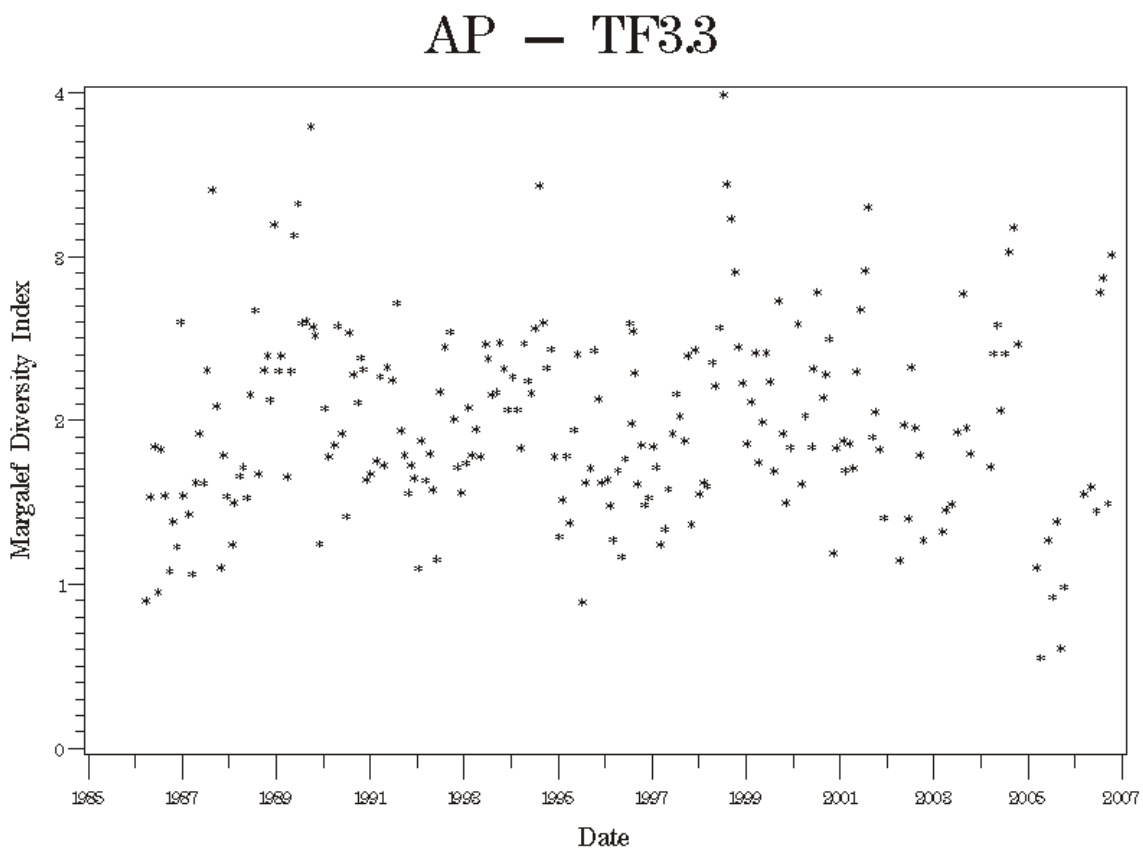


Figure F81. Plot of above pycnocline Margalef diversity index against time at station TF3.3 for the period of 1985 through 2005.

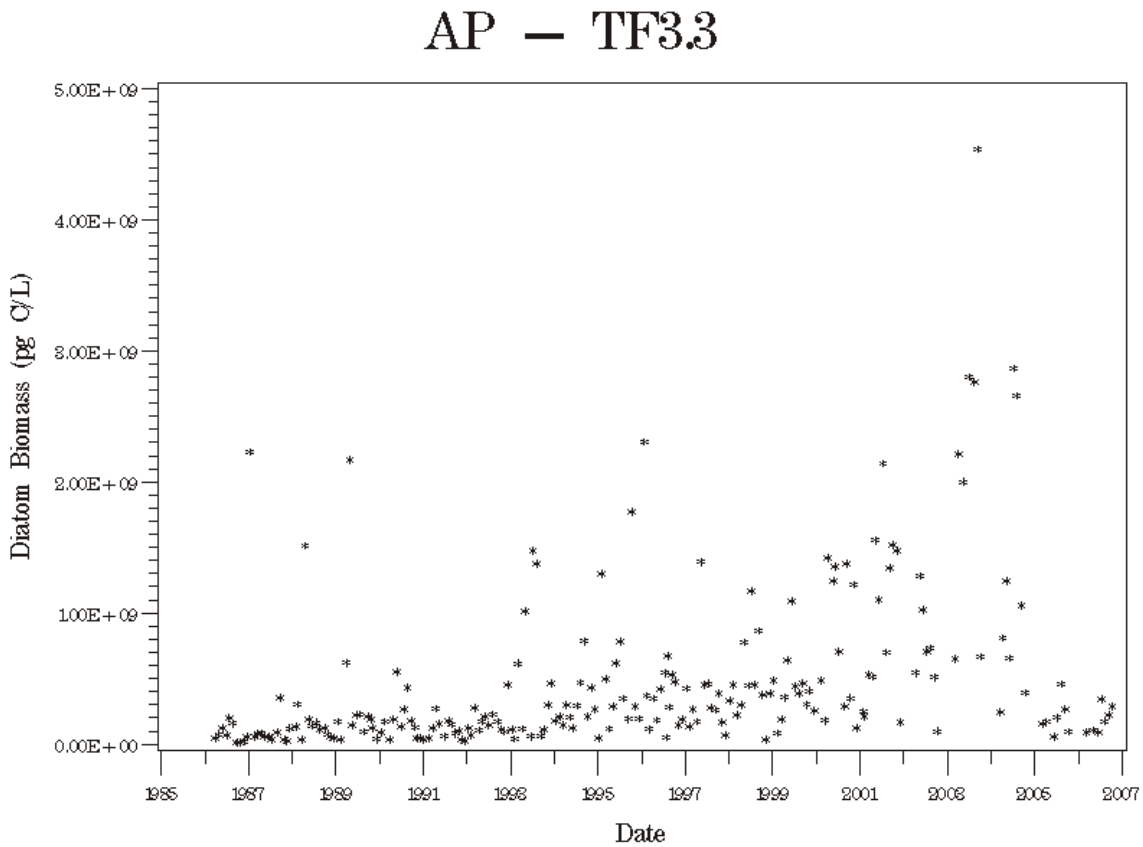


Figure F82. Plot of above pycnocline diatom biomass against time at station TF3.3 for the period of 1985 through 2005.

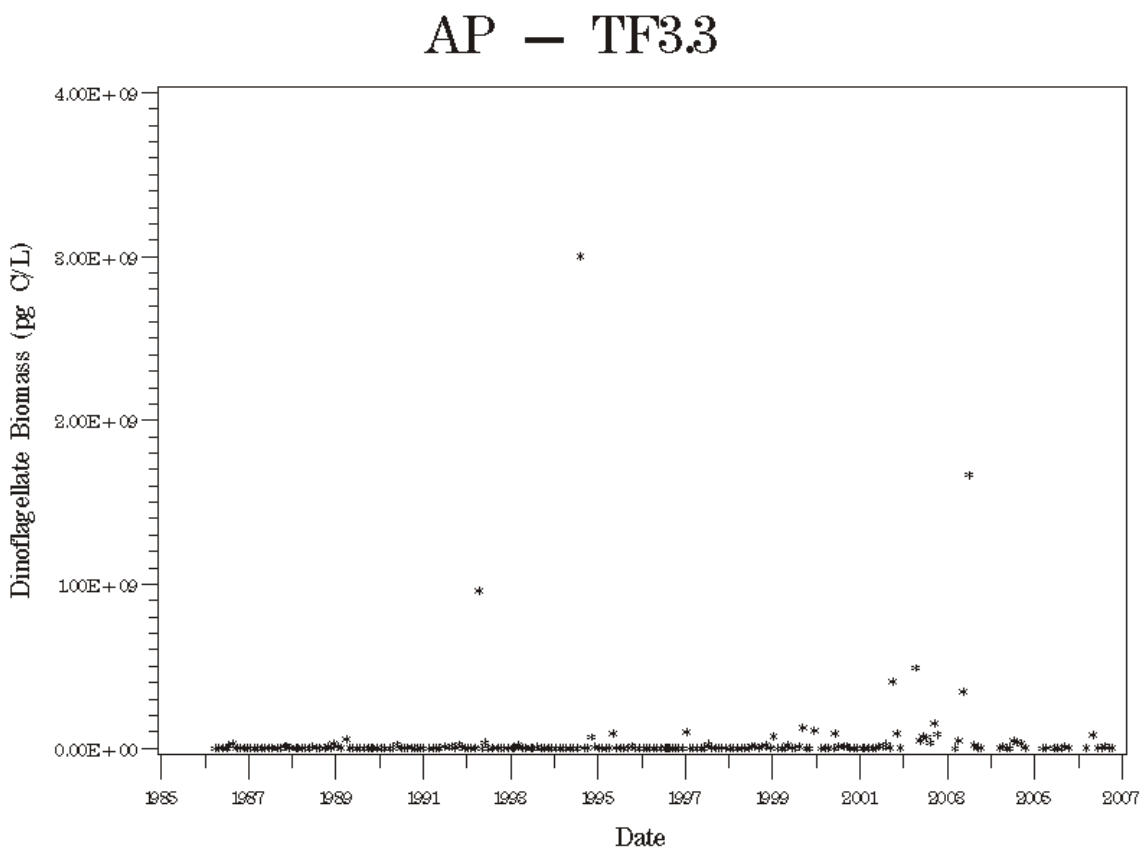


Figure F83. Plot of above pycnocline dinoflagellate biomass against time at station TF3.3 for the period of 1985 through 2005.

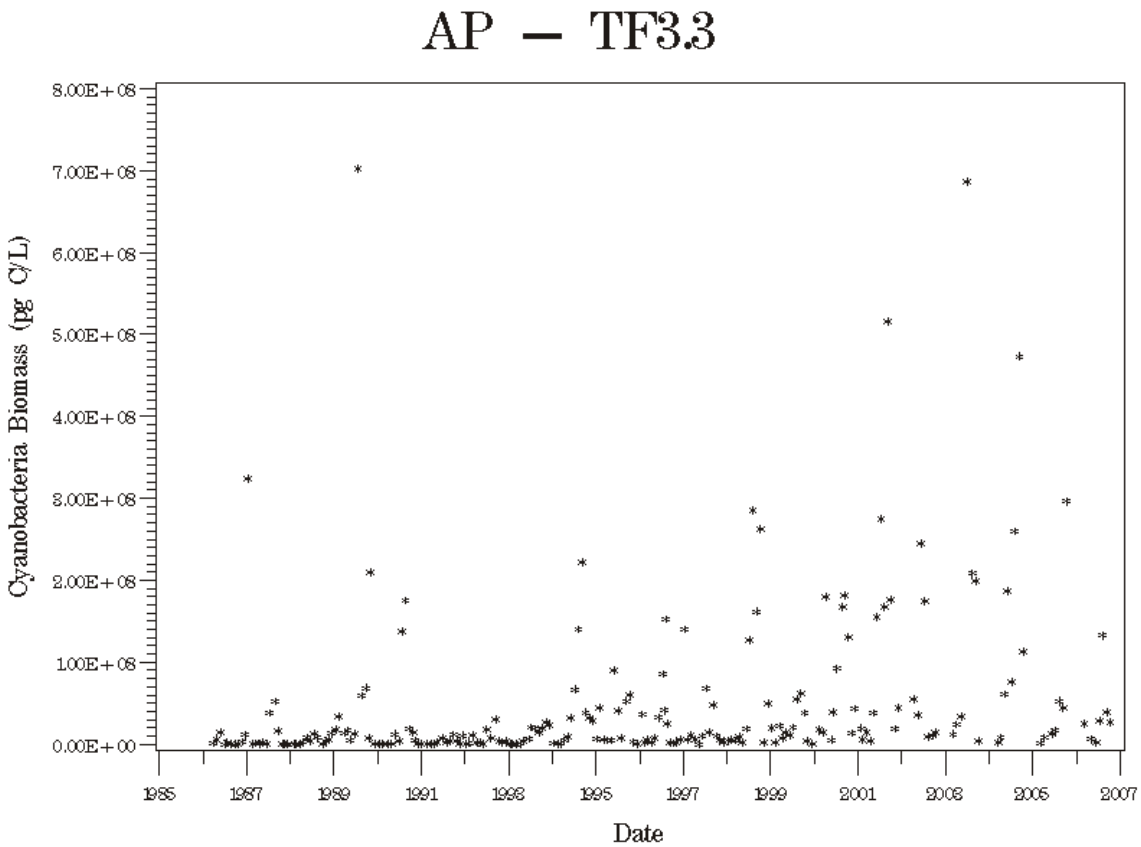


Figure F84. Plot of above pycnocline cyanobacteria biomass against time at station TF3.3 for the period of 1985 through 2005.

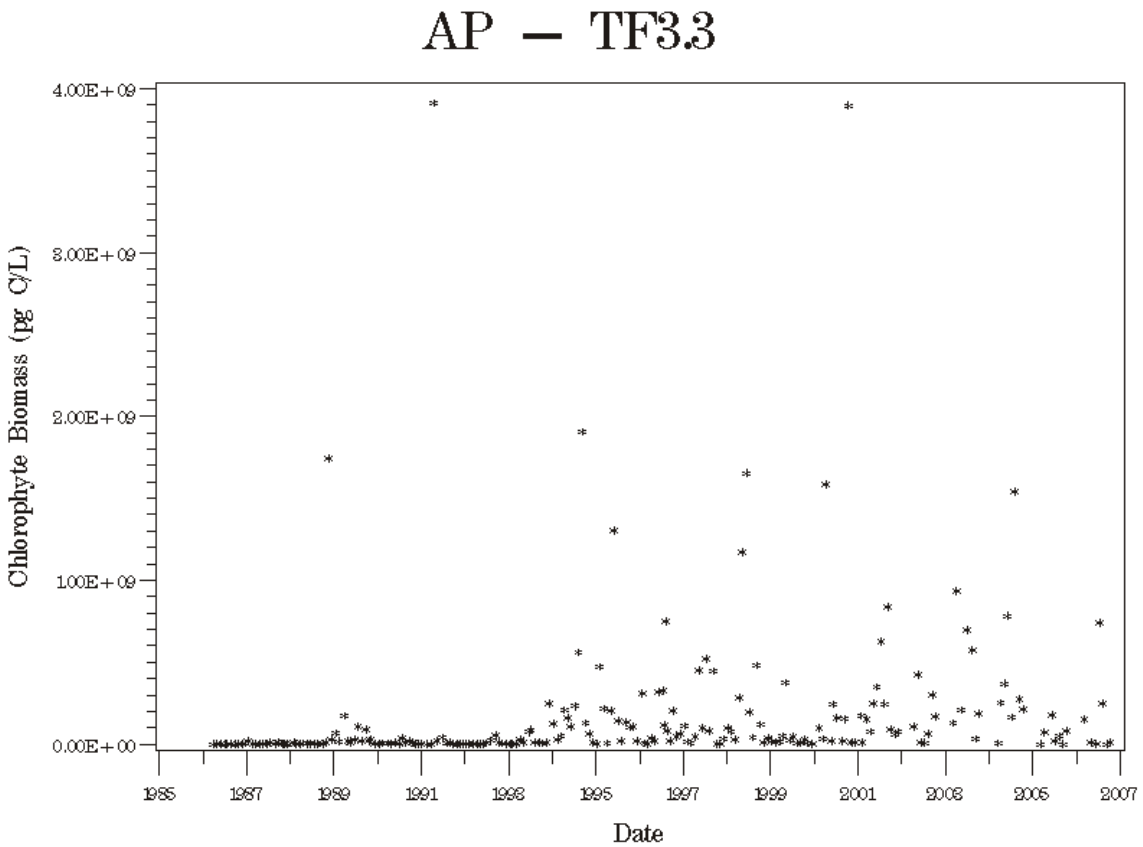


Figure F85. Plot of above pycnocline chlorophyte biomass against time at station TF3.3 for the period of 1985 through 2005.

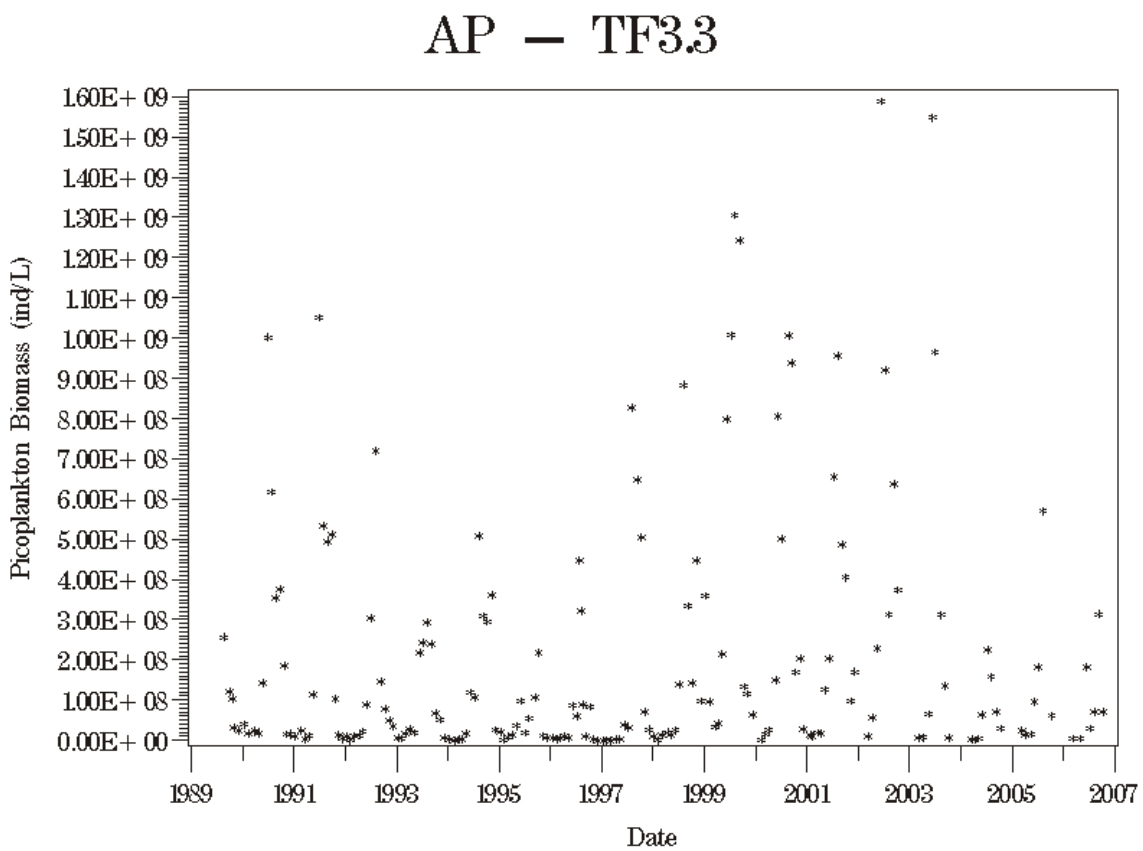


Figure F86. Plot of above pycnocline picoplankton biomass against time at station TF3.3 for the period of 1985 through 2005.

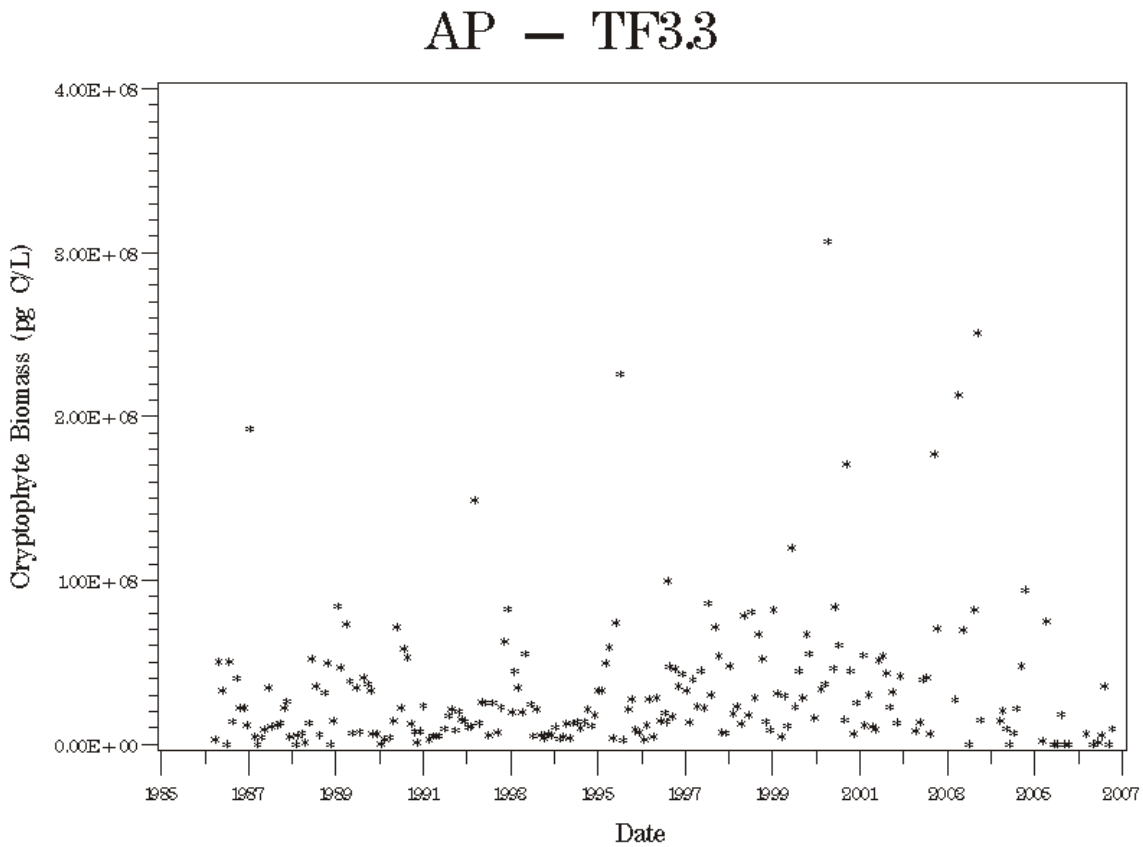


Figure F87. Plot of above pycnocline cryptophyte biomass against time at station TF3.3 for the period of 1985 through 2005.

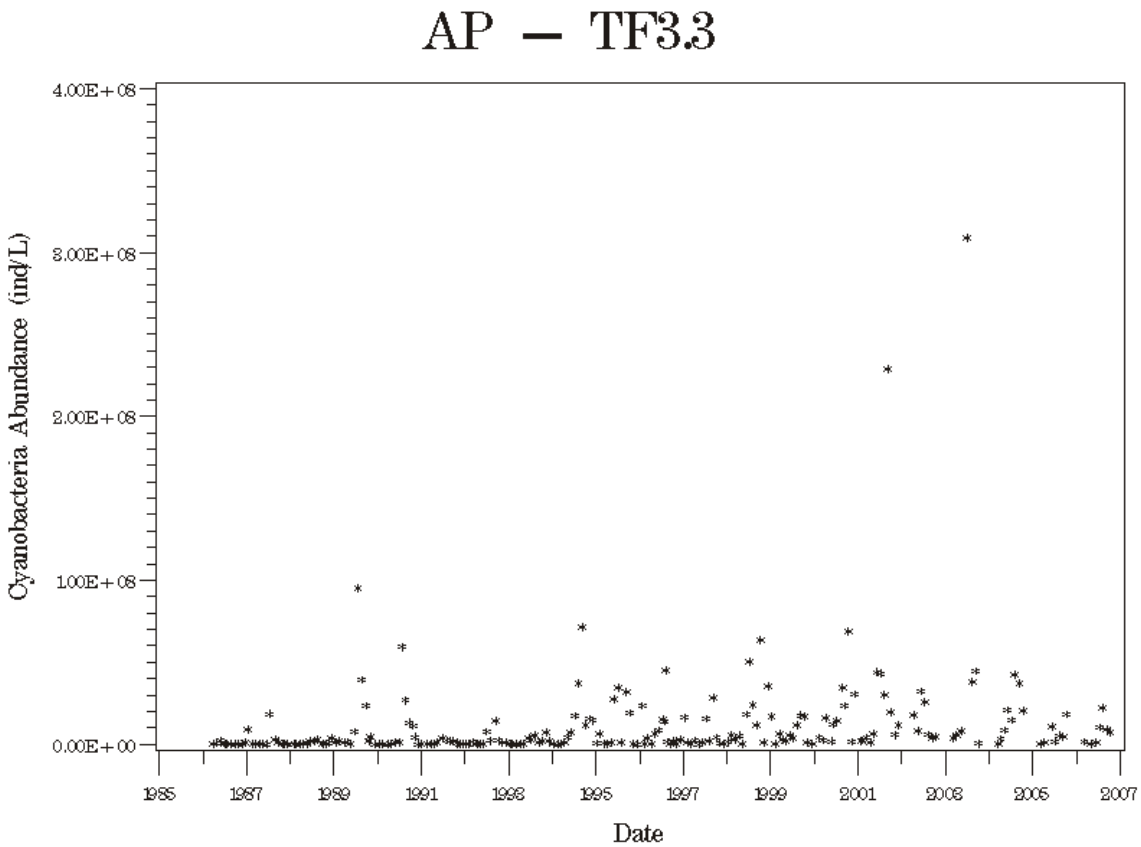


Figure F88. Plot of above pycnocline cyanophyte abundance at station TF3.3 for the period of 1985 through 2005.

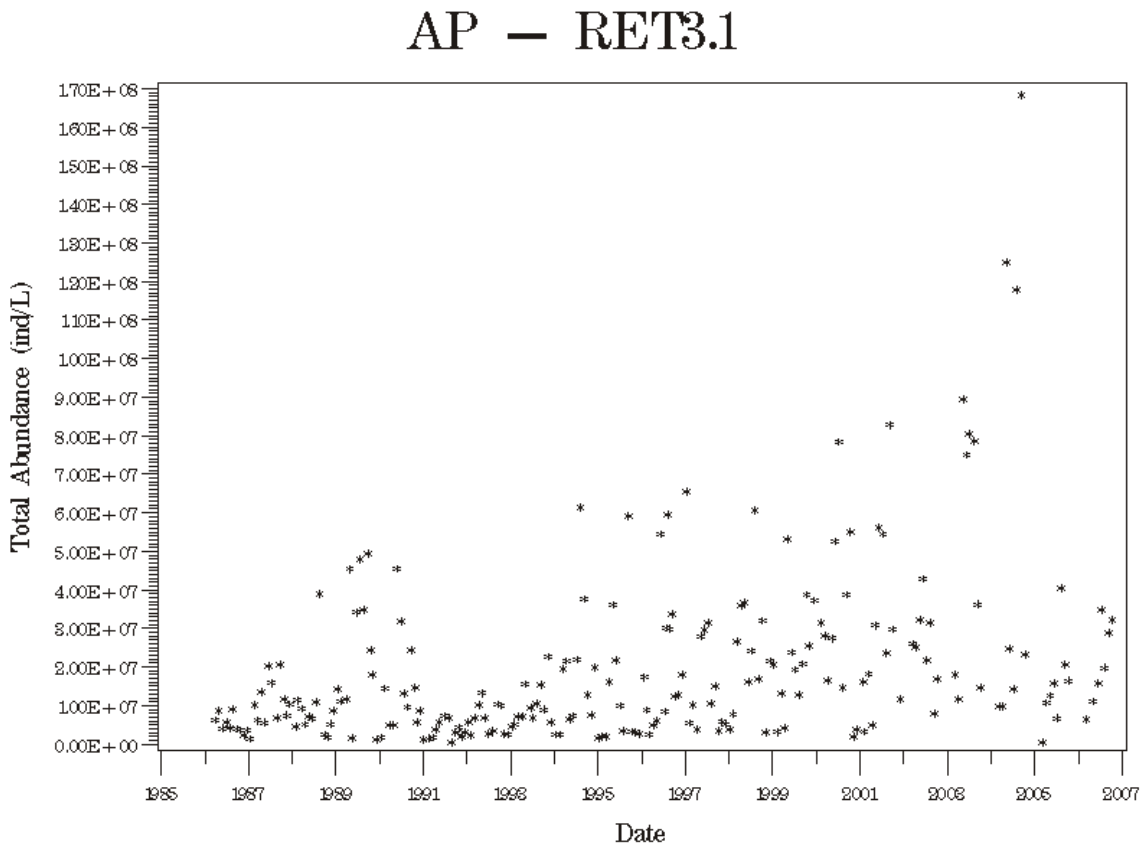


Figure F89. Plot of above pycnocline total phytoplankton abundance against time at station RET3.1 for the period of 1985 through 2005.

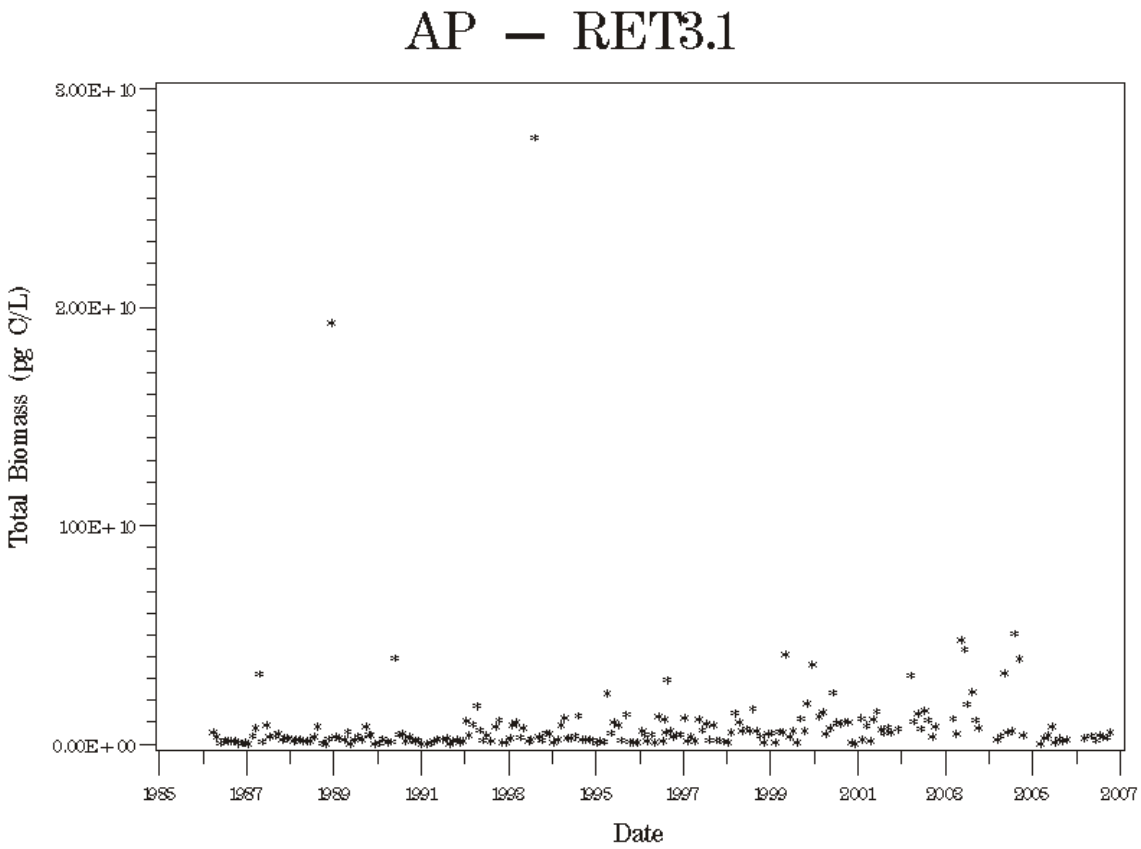


Figure F90. Plot of above pycnocline total phytoplankton biomass against time at station RET3.1 for the period of 1985 through 2005.

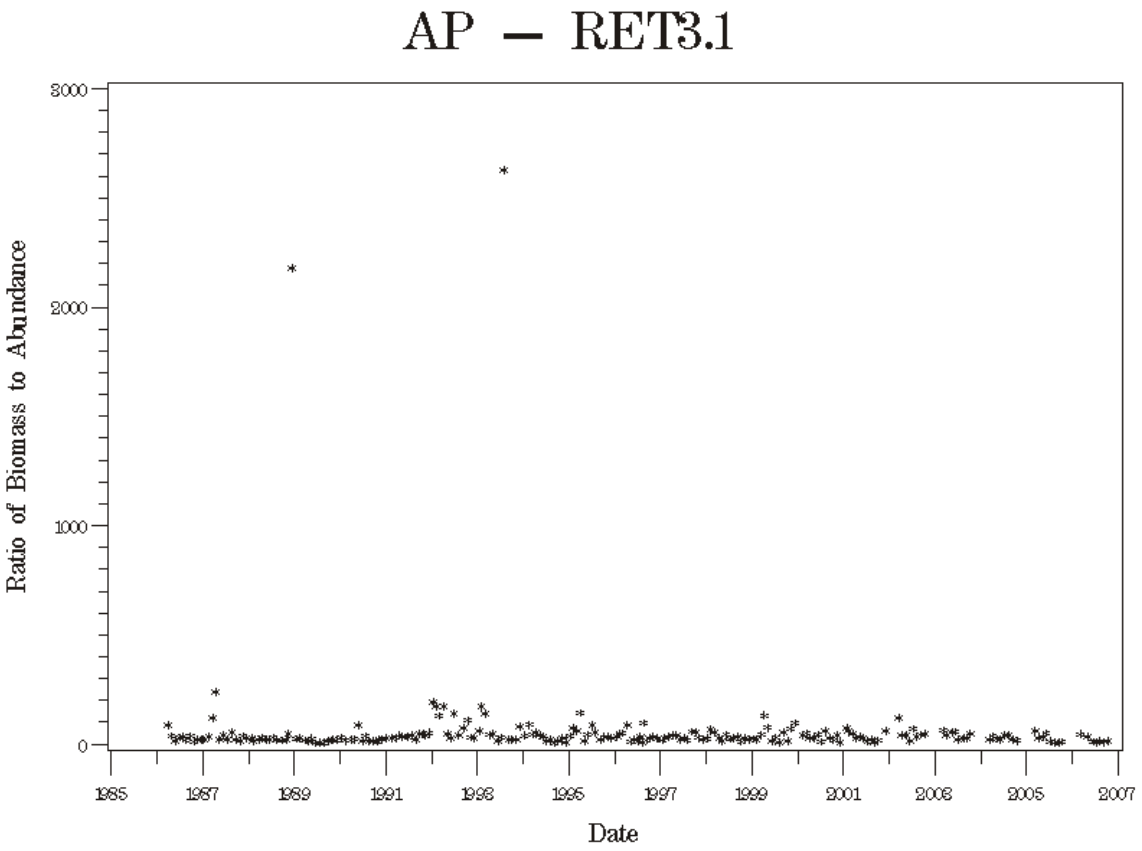


Figure F91. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station RET3.1 for the period of 1985 through 2005.

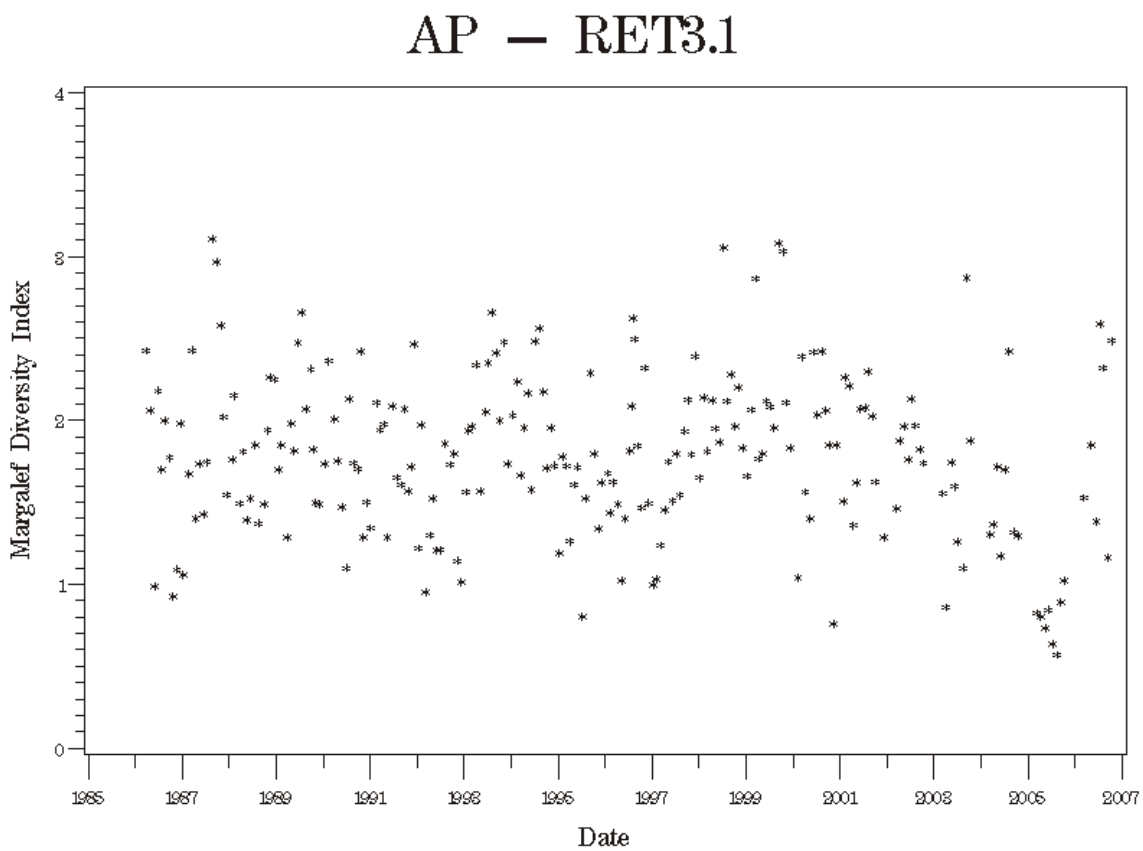


Figure F92. Plot of above pycnocline Margalef diversity index against time at station RET3.1 for the period of 1985 through 2005.

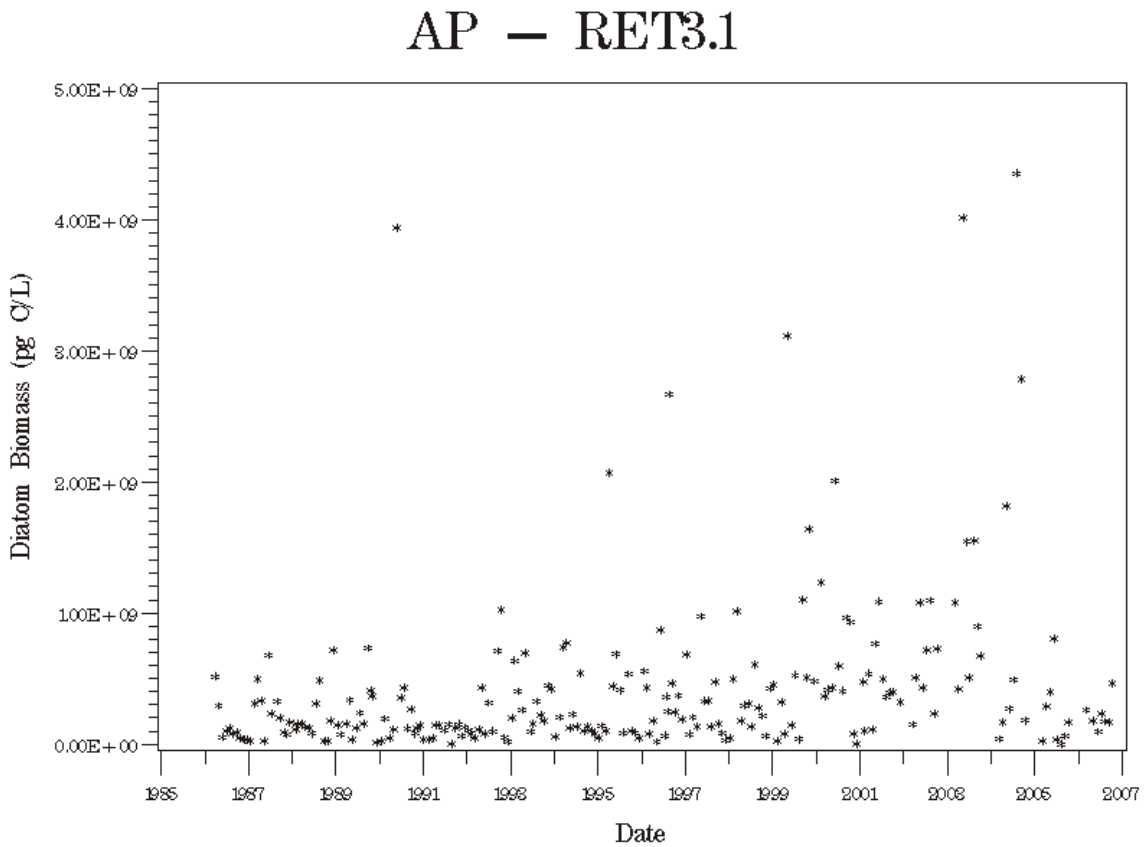


Figure F93. Plot of above pycnocline diatom biomass against time at station RET3.1 for the period of 1985 through 2005.

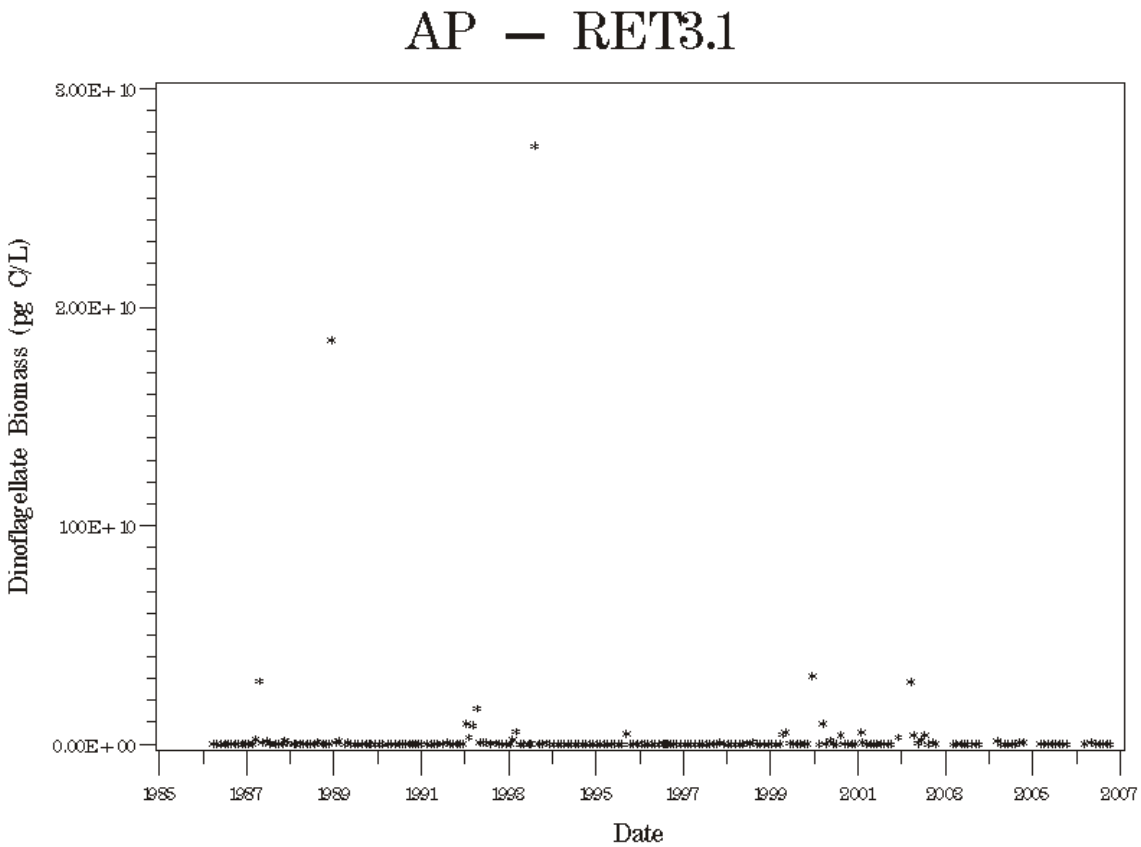


Figure F94. Plot of above pycnocline dinoflagellate biomass against time at station RET3.1 for the period of 1985 through 2005.

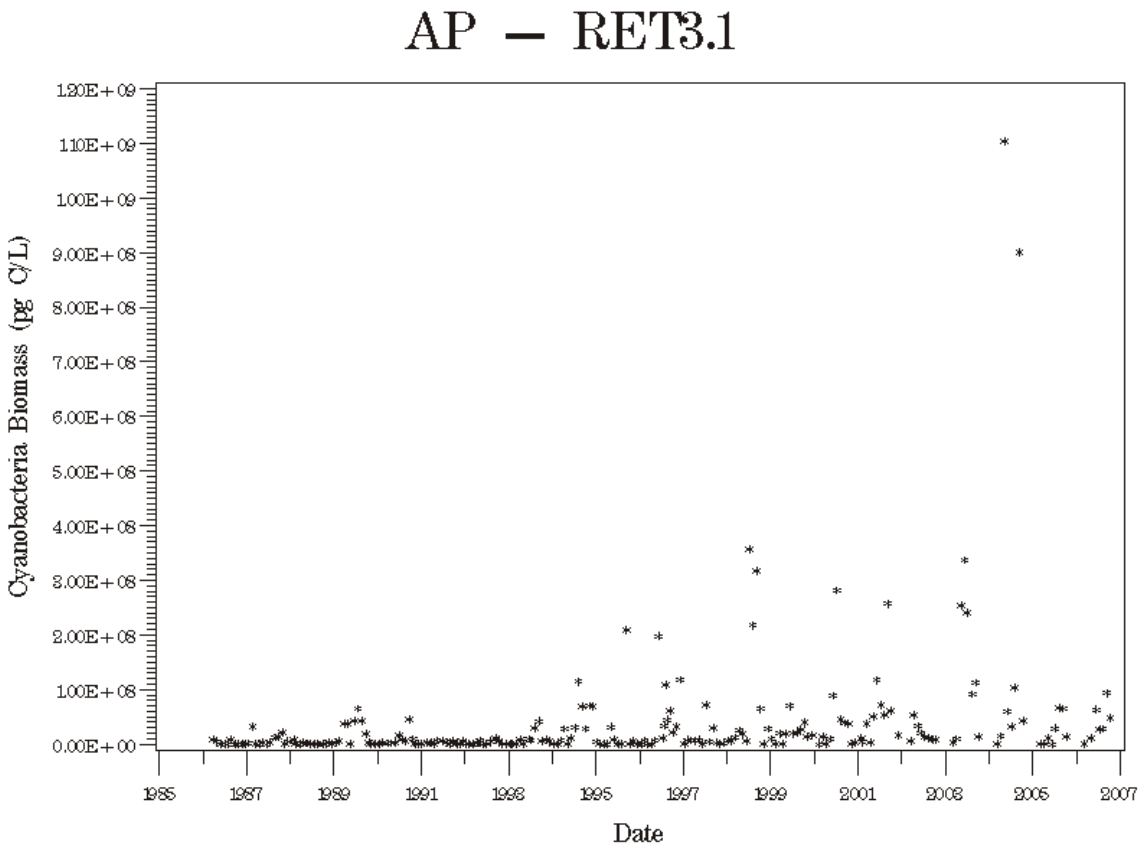


Figure F95. Plot of above pycnocline cyanobacteria biomass against time at station RET3.1 for the period of 1985 through 2005.

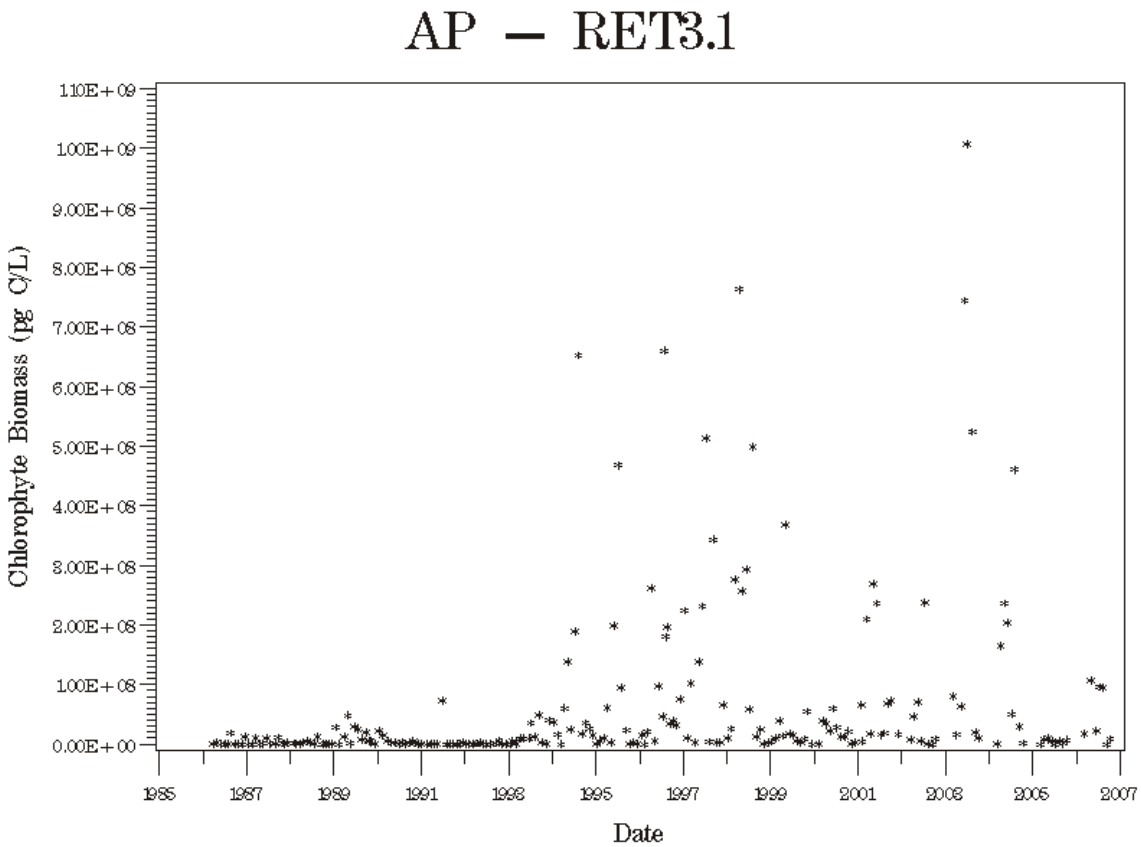


Figure F96. Plot of above pycnocline chlorophyte biomass against time at station RET3.1 for the period of 1985 through 2005.

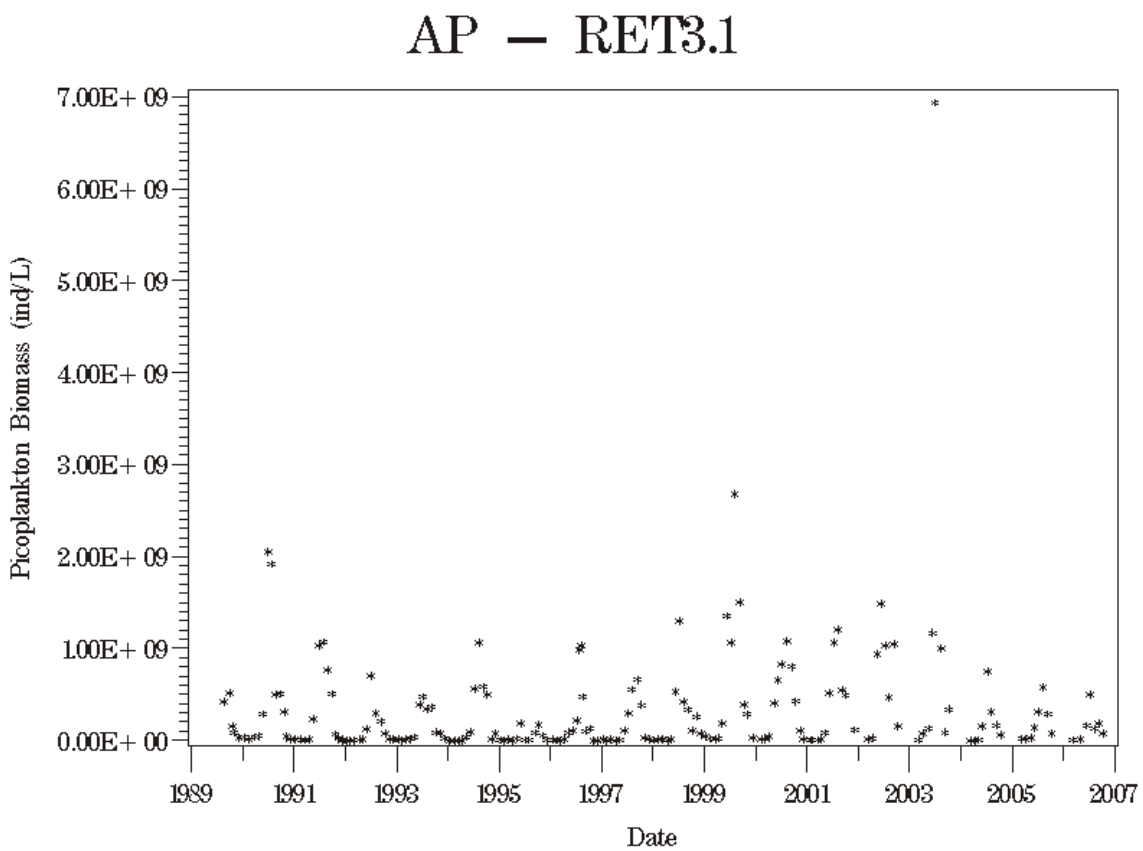


Figure F97. Plot of above pycnocline picoplankton biomass against time at station RET3.1 for the period of 1985 through 2005.

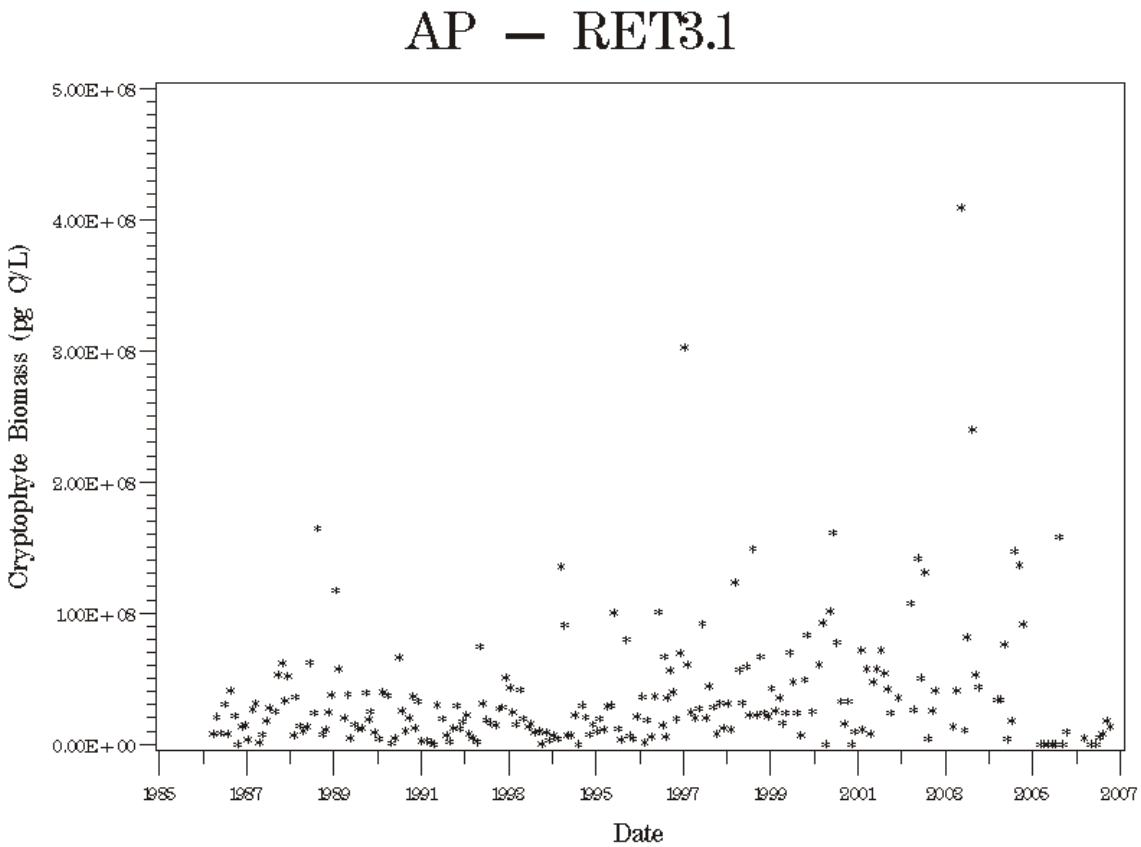


Figure F98. Plot of above pycnocline cryptophyte biomass at station RET3.1 for the period of 1985 through 2005.

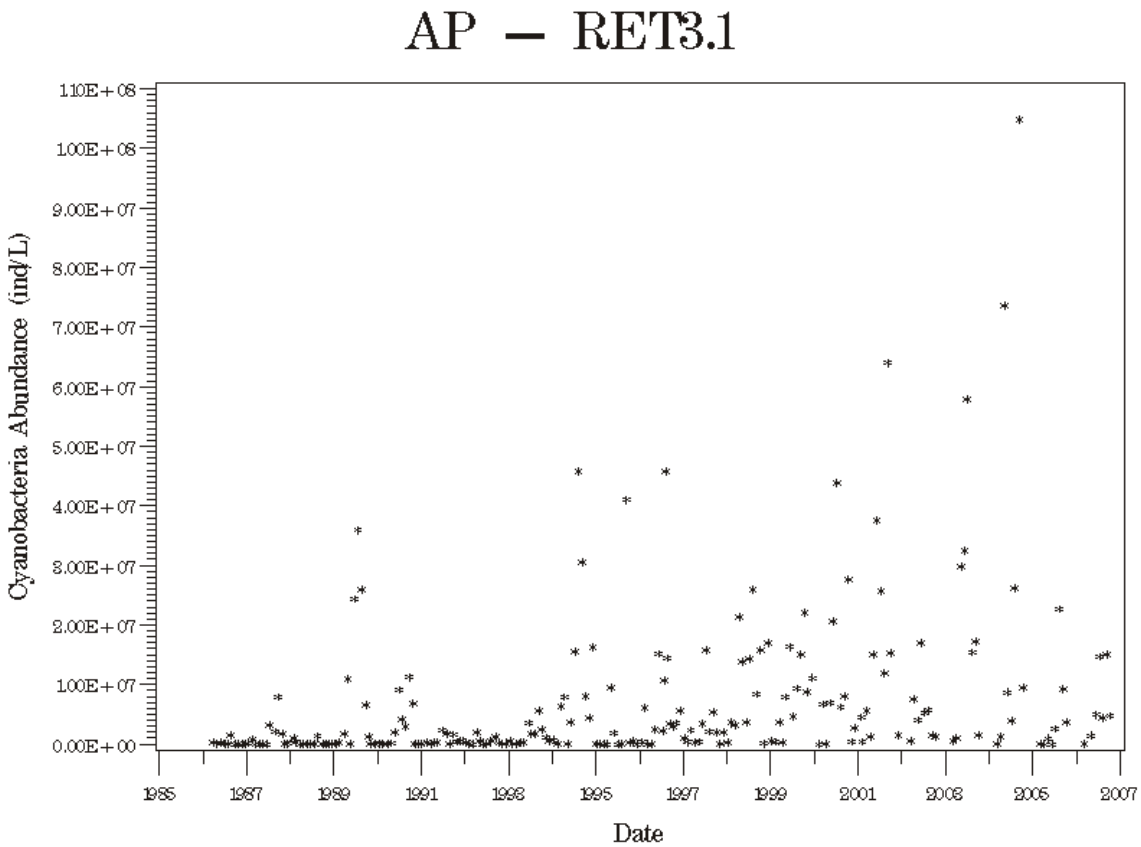


Figure F99. Plot of above pycnocline cyanophyte abundance at station RET3.1 for the period of 1985 through 2005.

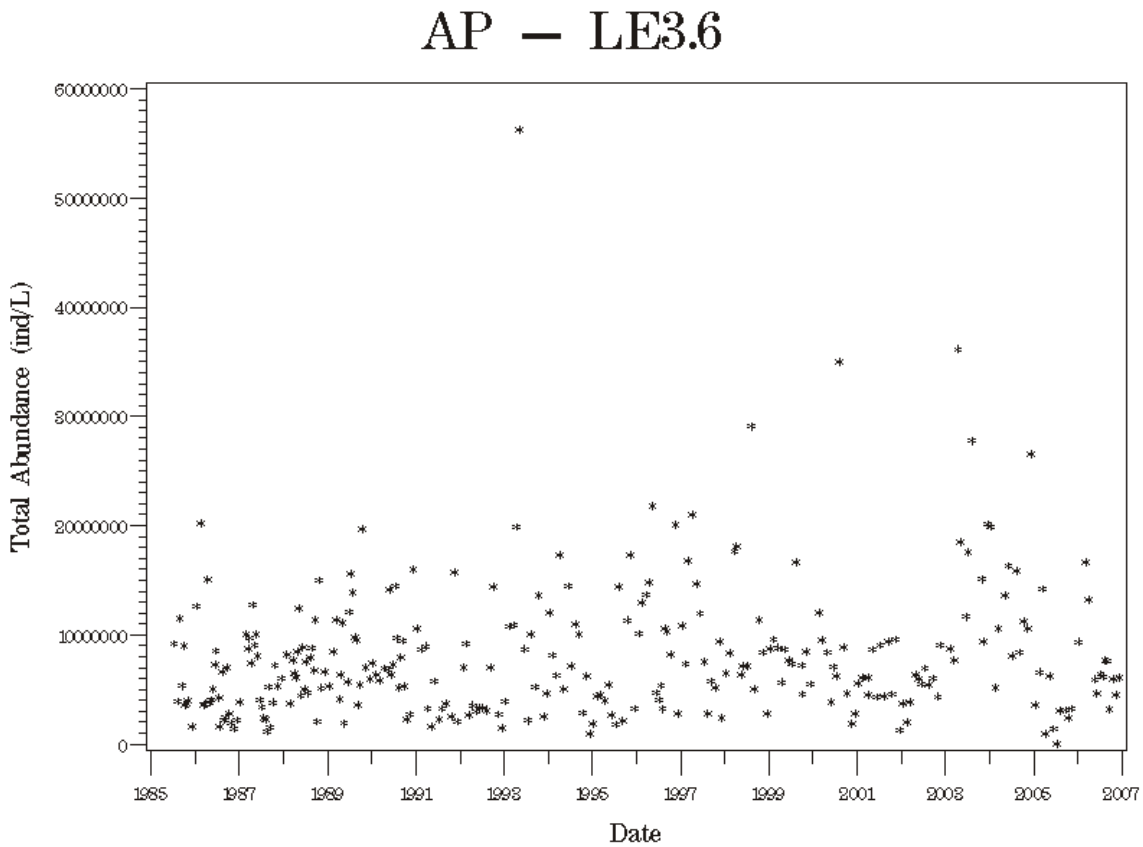


Figure F100. Plot of above pycnocline total phytoplankton abundance against time at station LE3.6 for the period of 1985 through 2005.

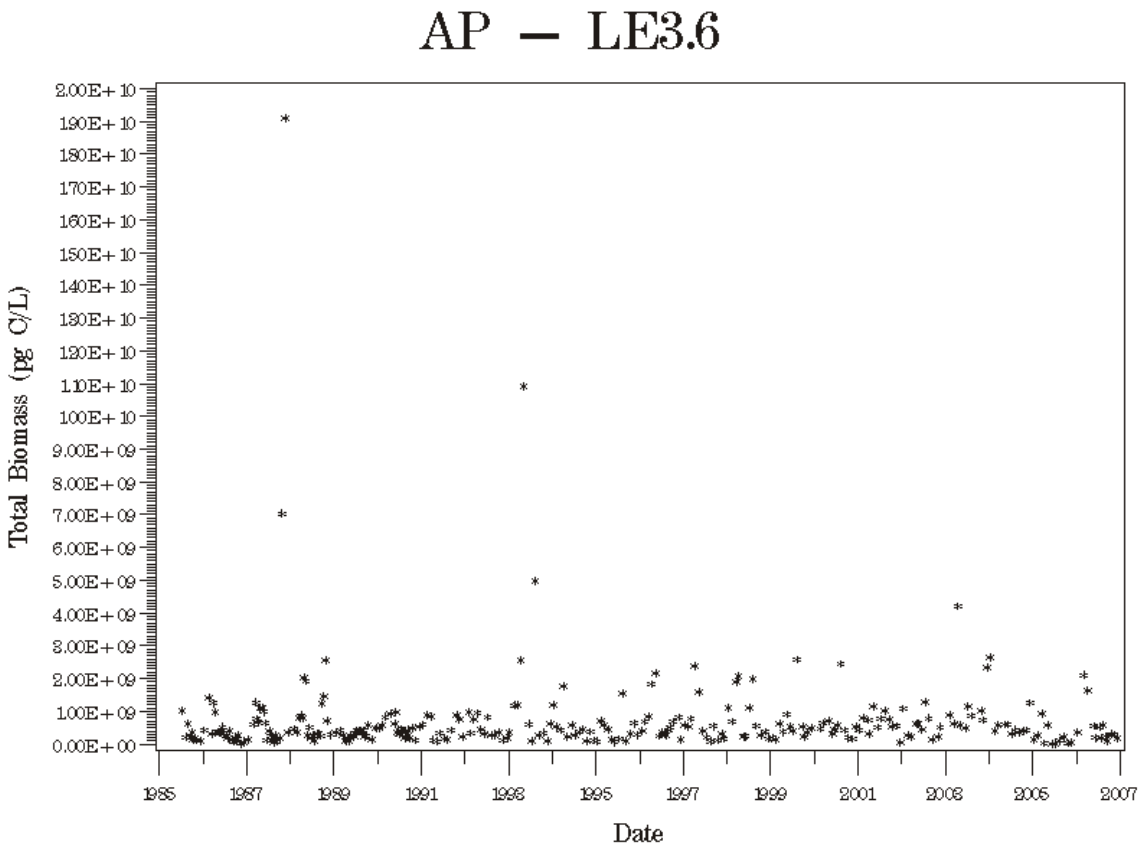


Figure F101. Plot of above pycnocline total phytoplankton biomass against time at station LE3.6 for the period of 1985 through 2005.

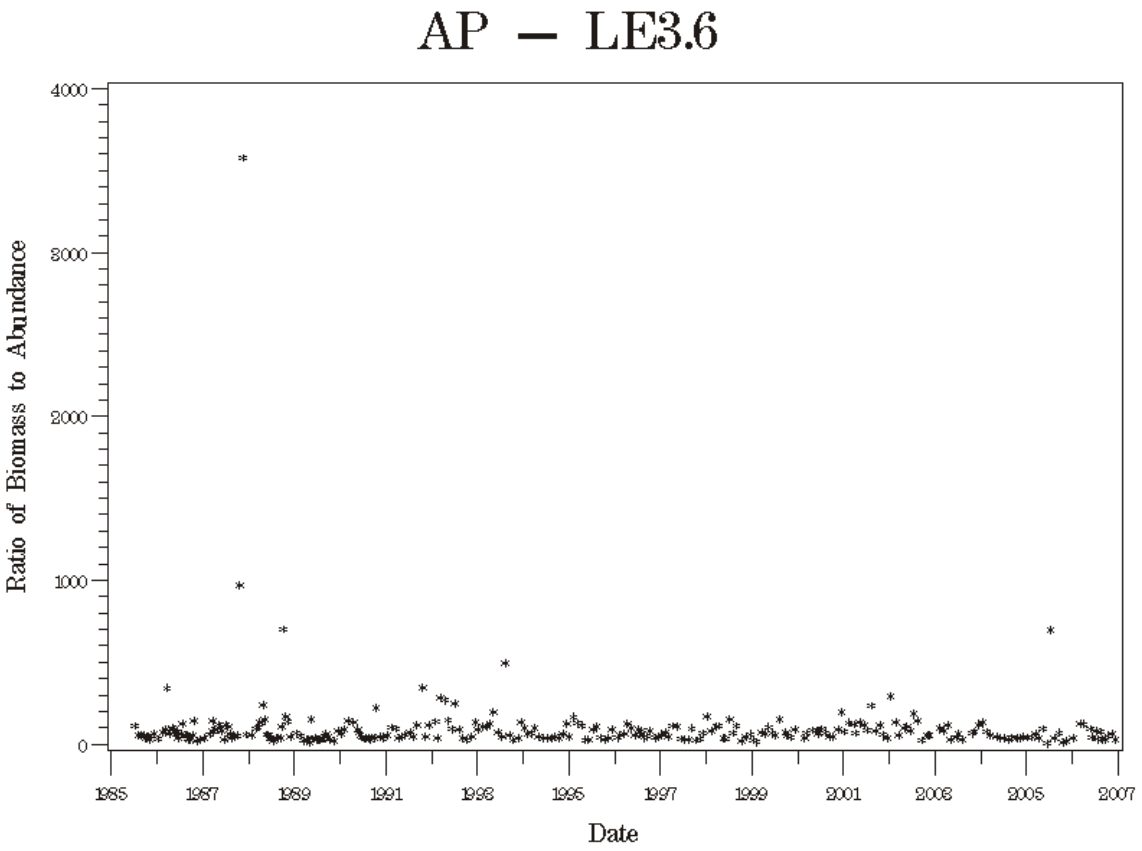


Figure F102. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station LE3.6 for the period of 1985 through 2005.

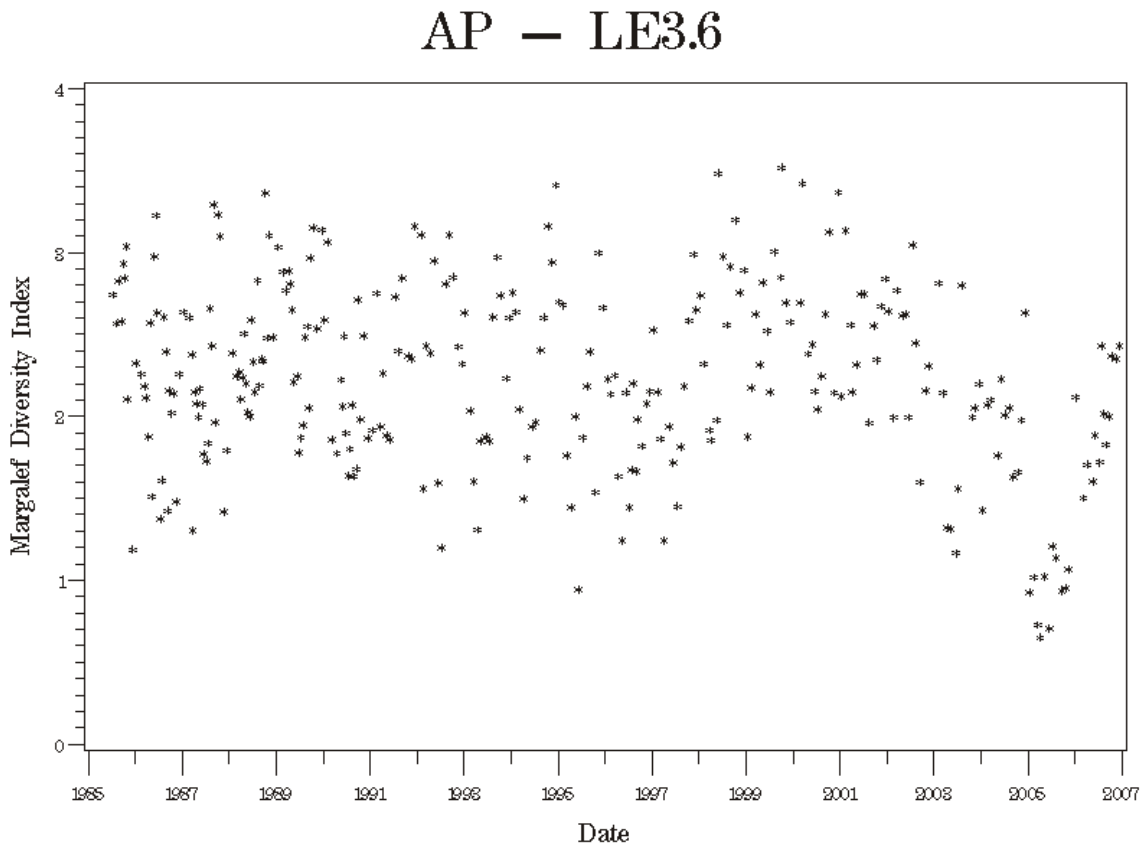


Figure F103. Plot of above pycnocline Margalef diversity index against time at station LE3.6 for the period of 1985 through 2005.

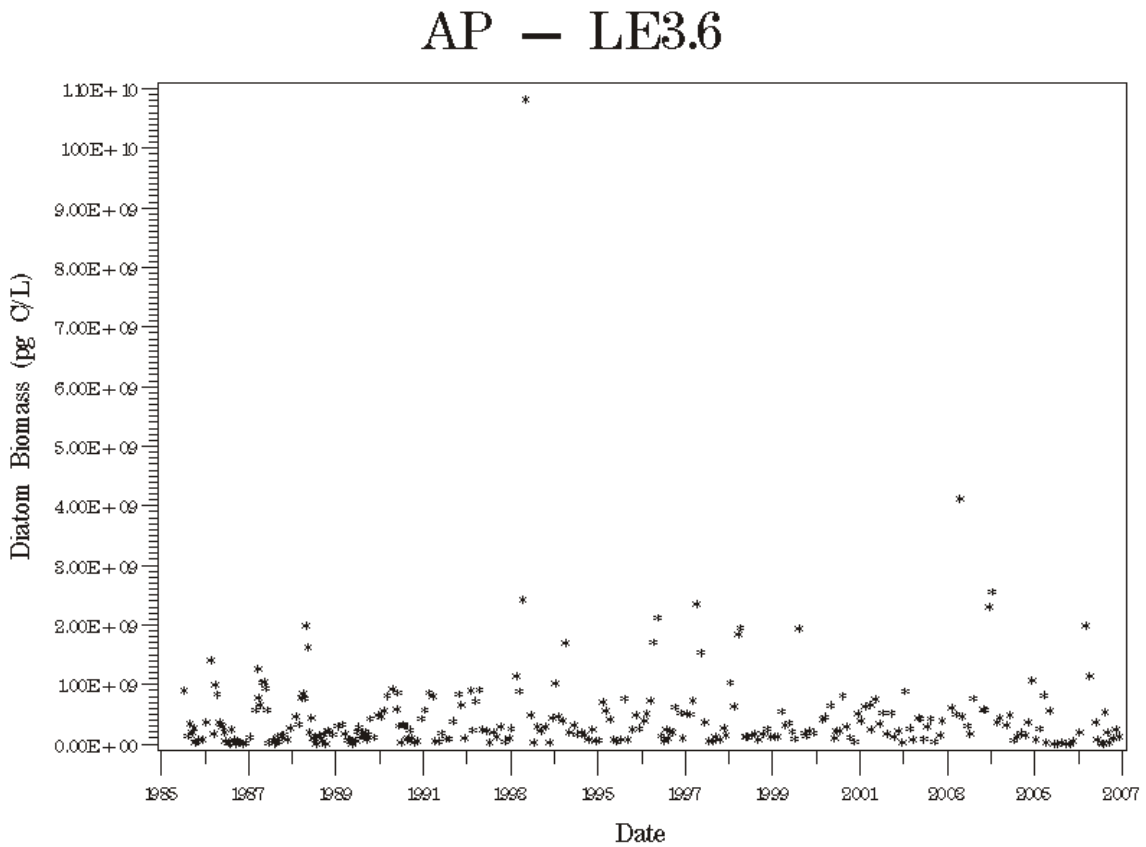


Figure F104. Plot of above pycnocline diatom biomass against time at station LE3.6 for the period of 1985 through 2005.

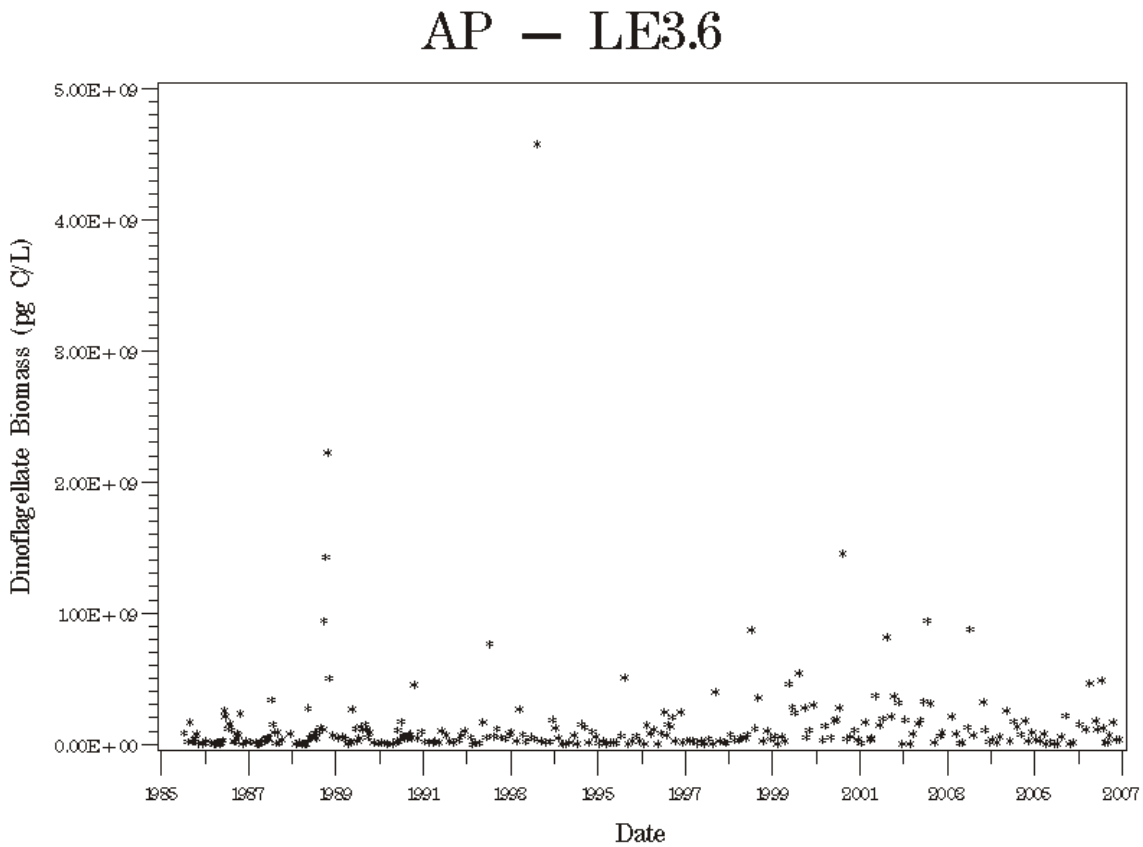


Figure F105. Plot of above pycnocline dinoflagellate biomass against time at station LE3.6 for the period of 1985 through 2005.

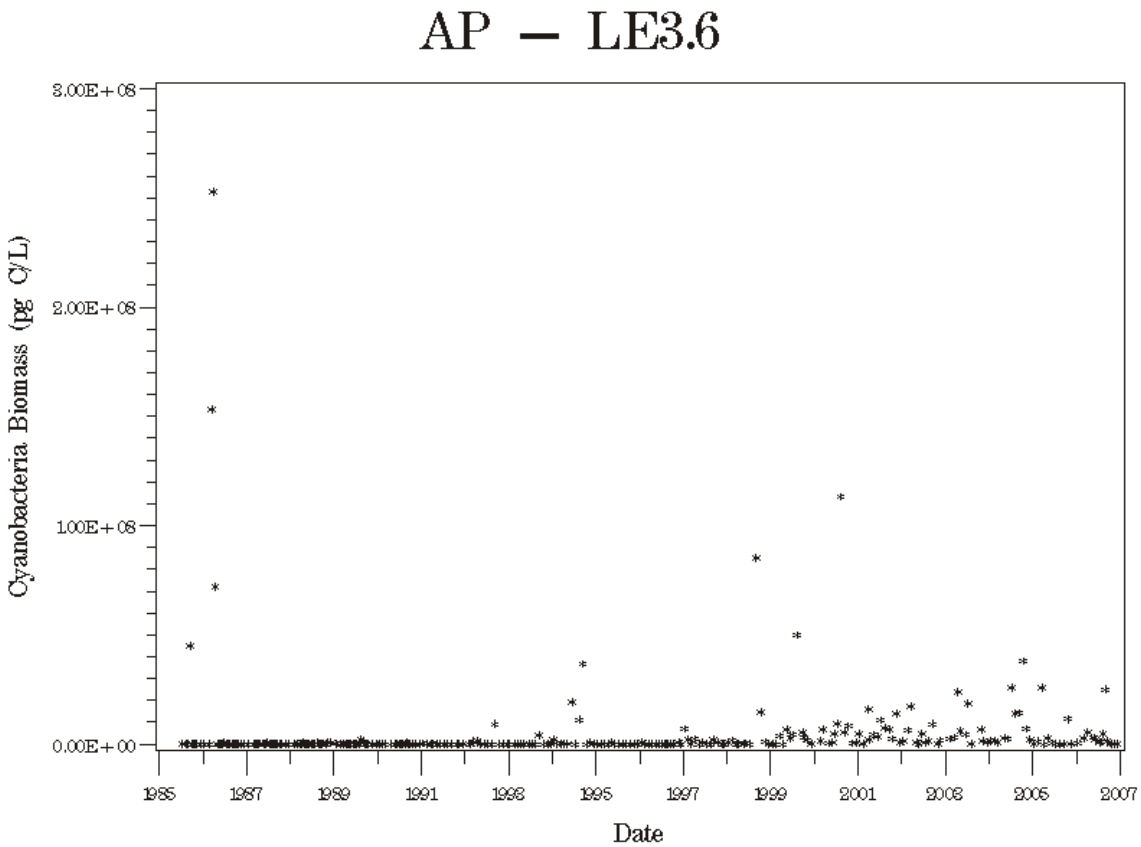


Figure F106. Plot of above pycnocline cyanobacteria biomass against time at station LE3.6 for the period of 1985 through 2005.

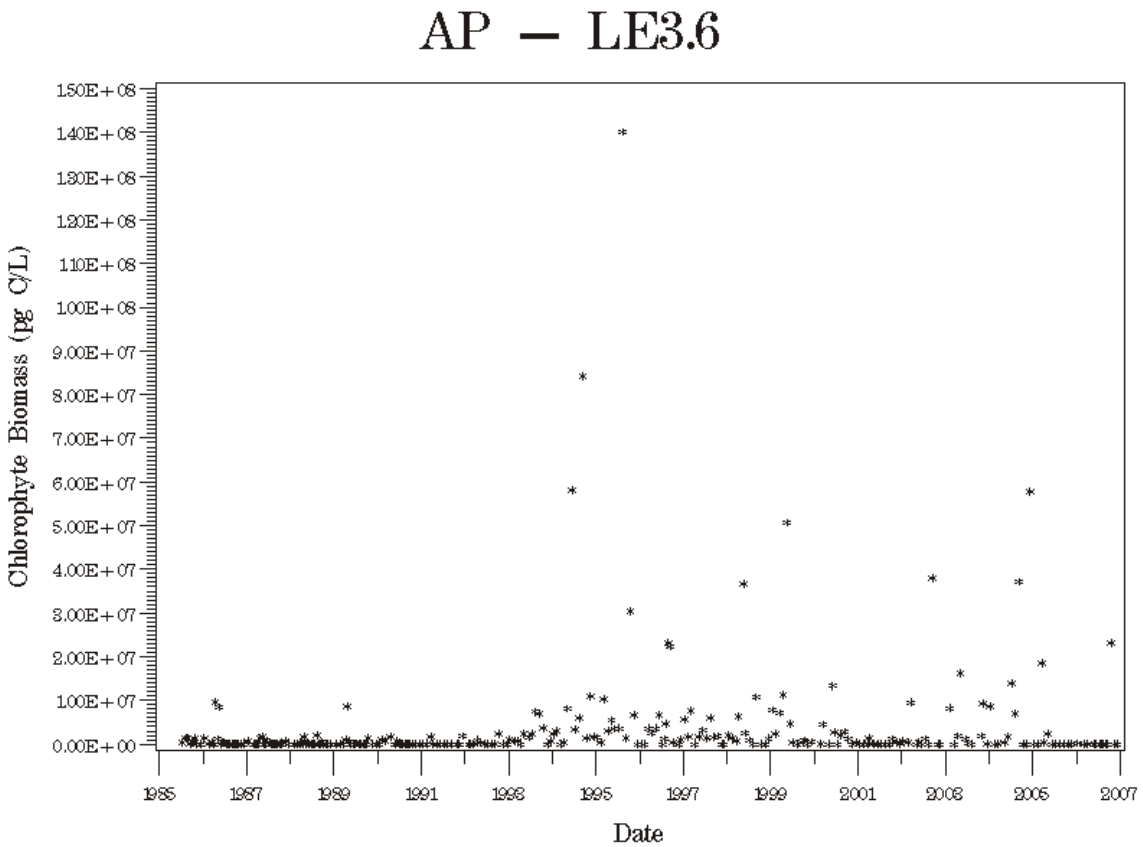


Figure F107. Plot of above pycnocline chlorophyte biomass against time at station LE3.6 for the period of 1985 through 2005.

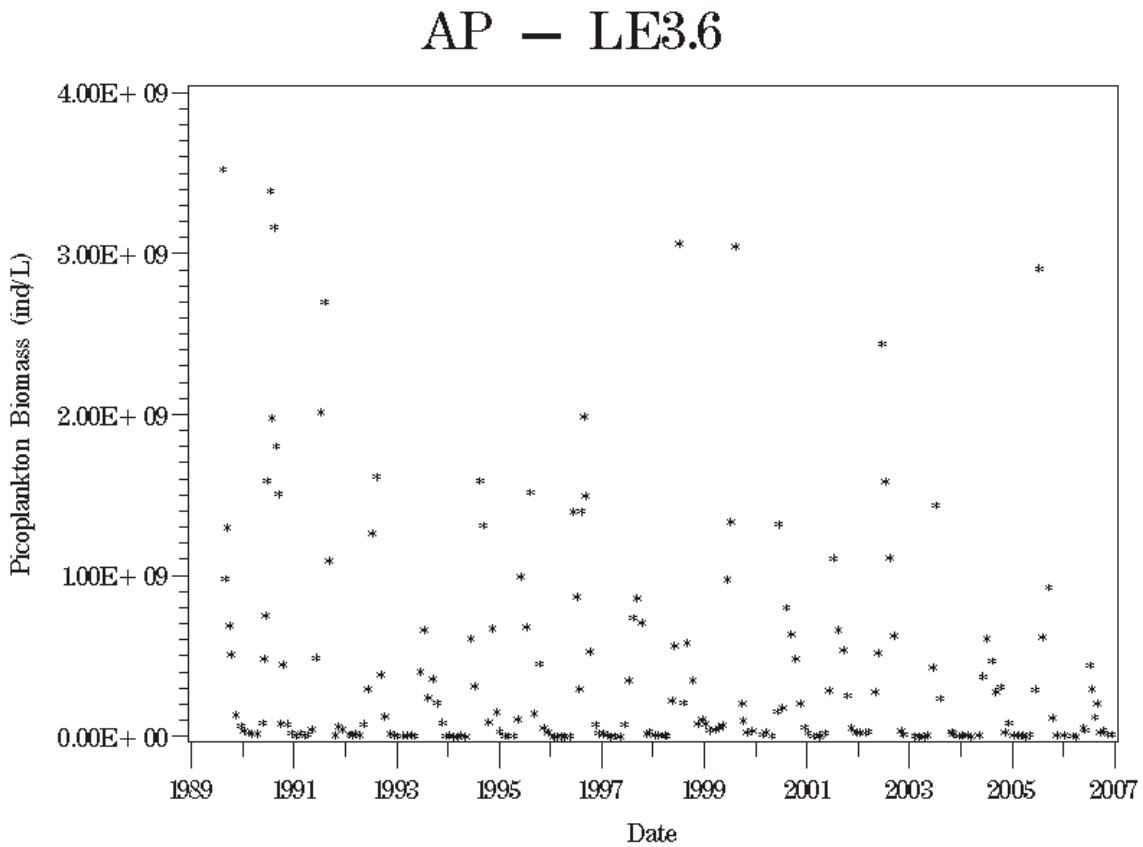


Figure F108. Plot of above pycnocline picoplankton biomass against time at station LE3.6 for the period of 1985 through 2005.

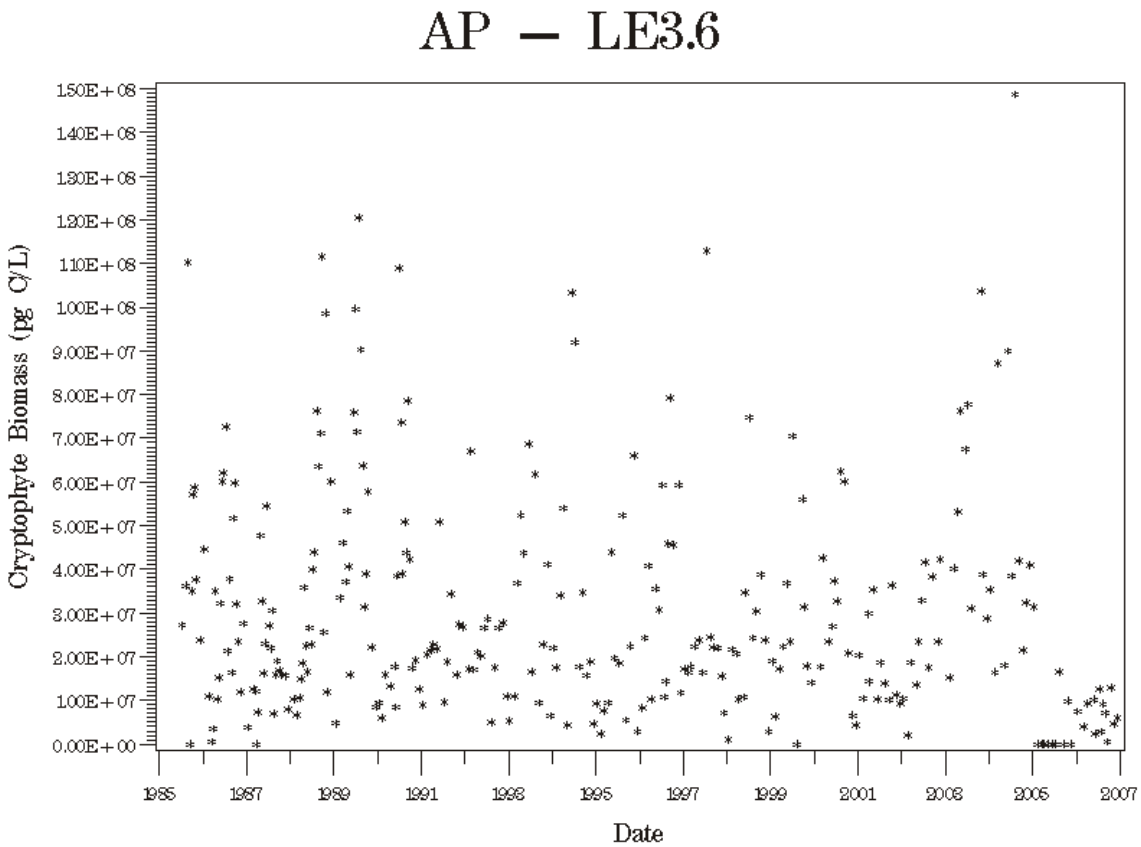


Figure F109. Plot of above pycnocline cryptophyte biomass at station LE3.6 for the period of 1985 through 2005.

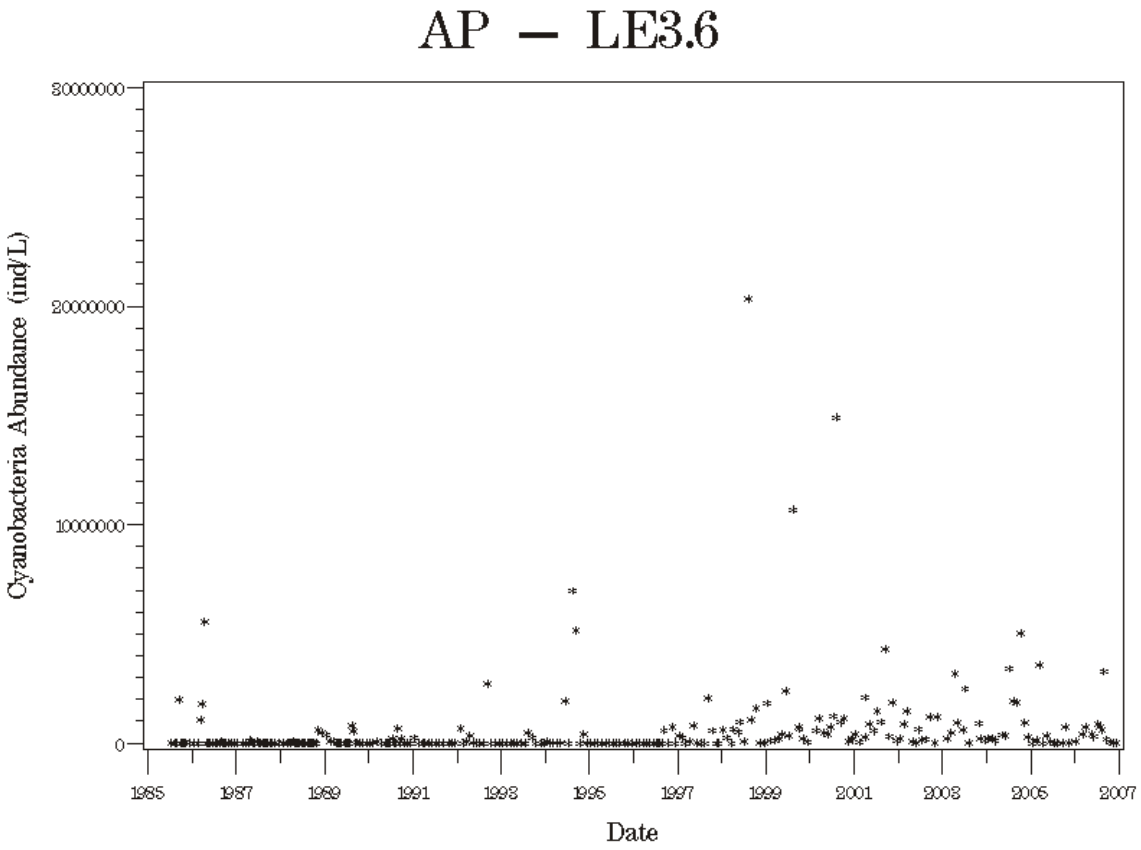


Figure F110. Plot of above pycnocline cyanophyte abundance at station LE3.6 for the period of 1985 through 2005.

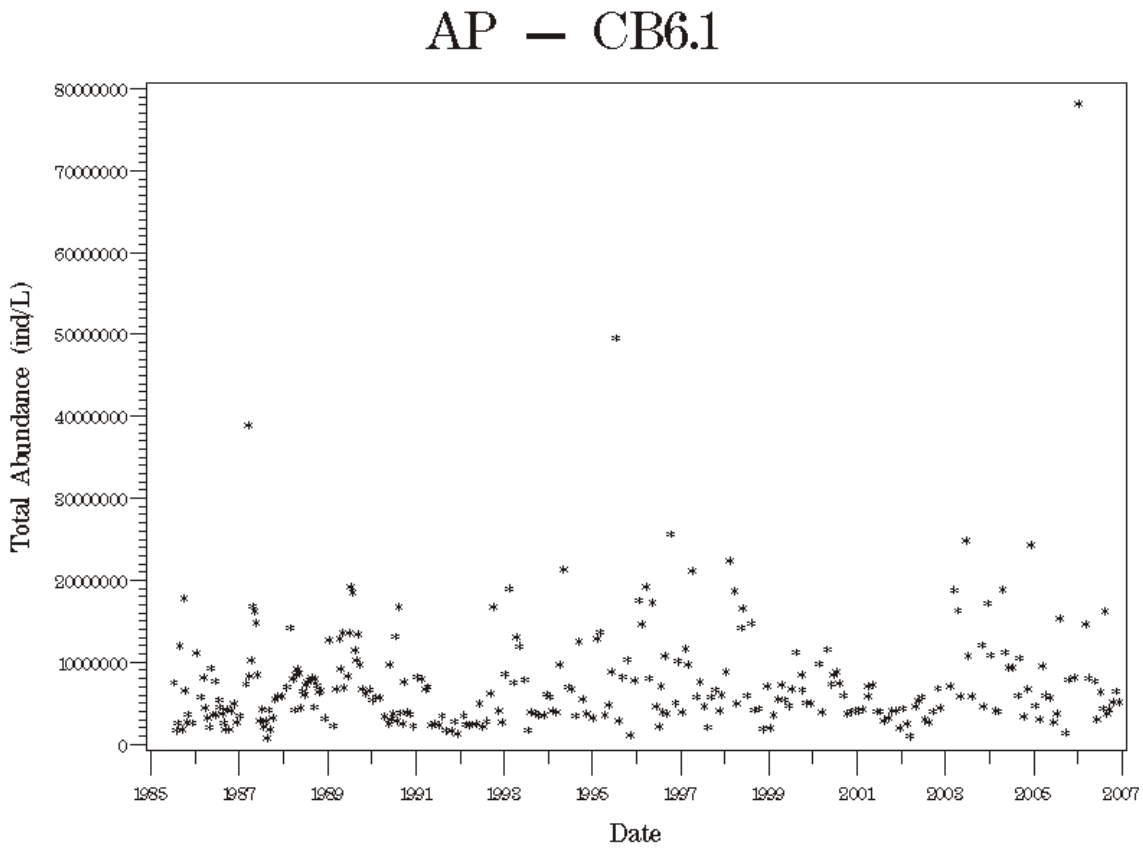


Figure F111. Plot of above pycnocline total phytoplankton abundance against time at station CB6.1 for the period of 1985 through 2005.

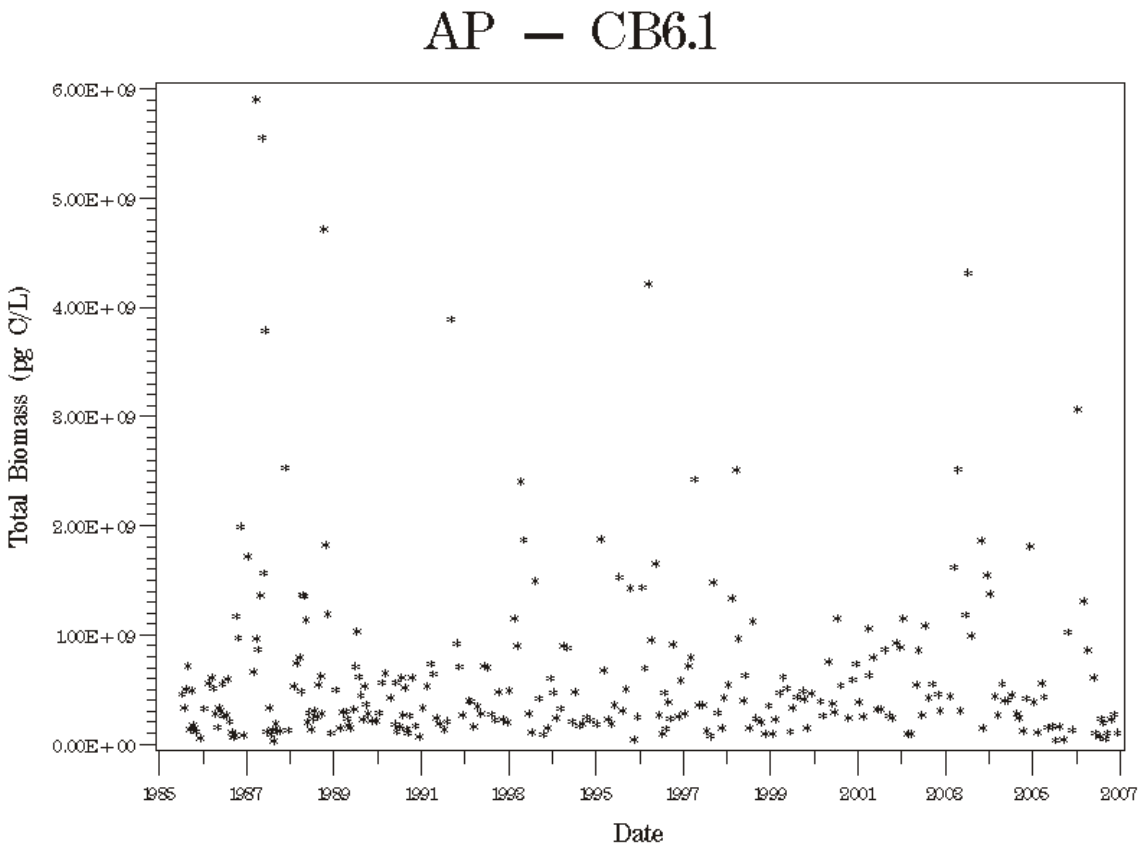


Figure F112. Plot of above pycnocline total phytoplankton biomass against time at station CB6.1 for the period of 1985 through 2005.

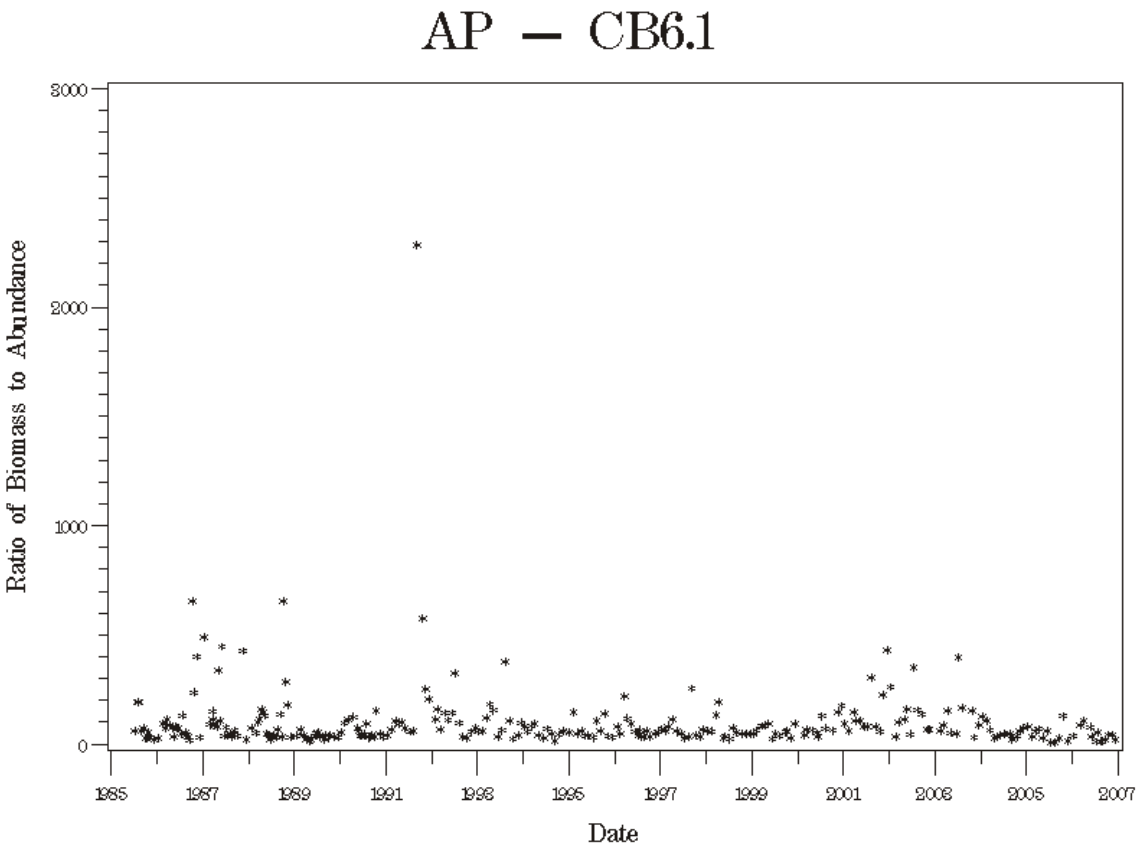


Figure F113. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB6.1 for the period of 1985 through 2005.

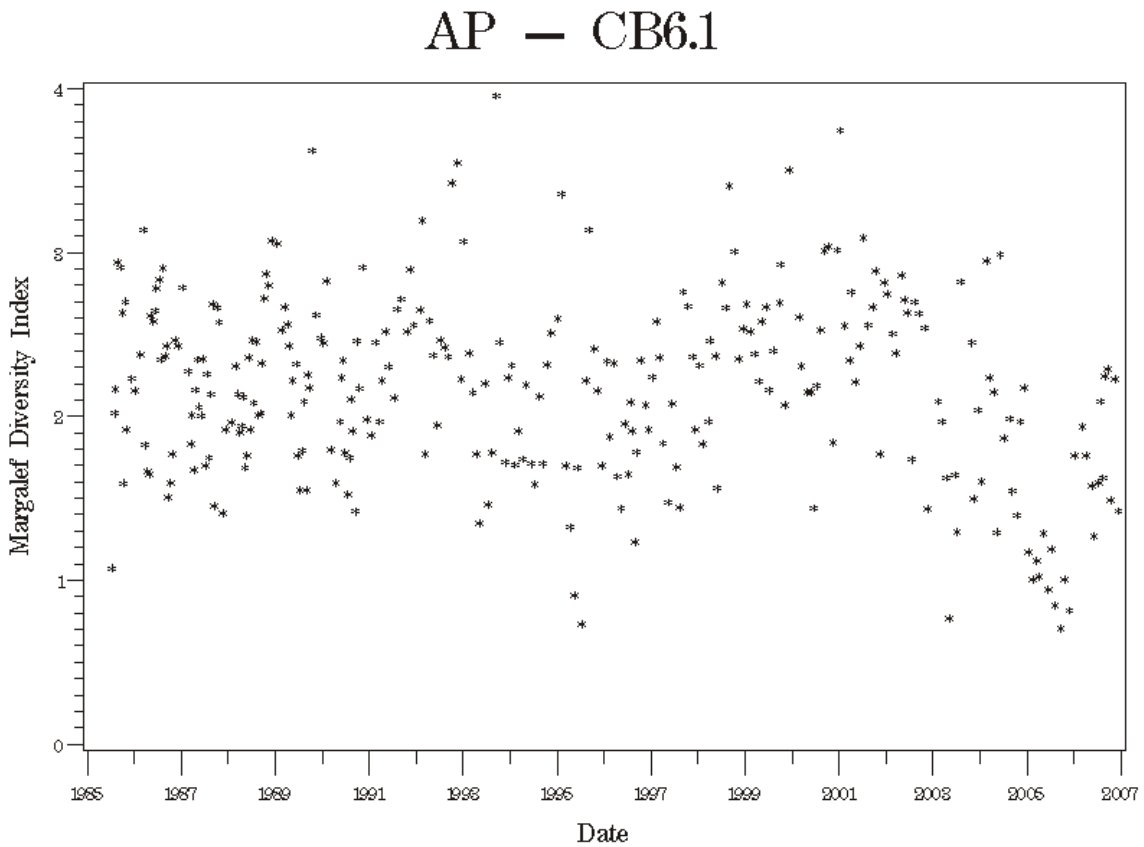


Figure F114. Plot of above pycnocline Margalef diversity index against time at station CB6.1 for the period of 1985 through 2005.

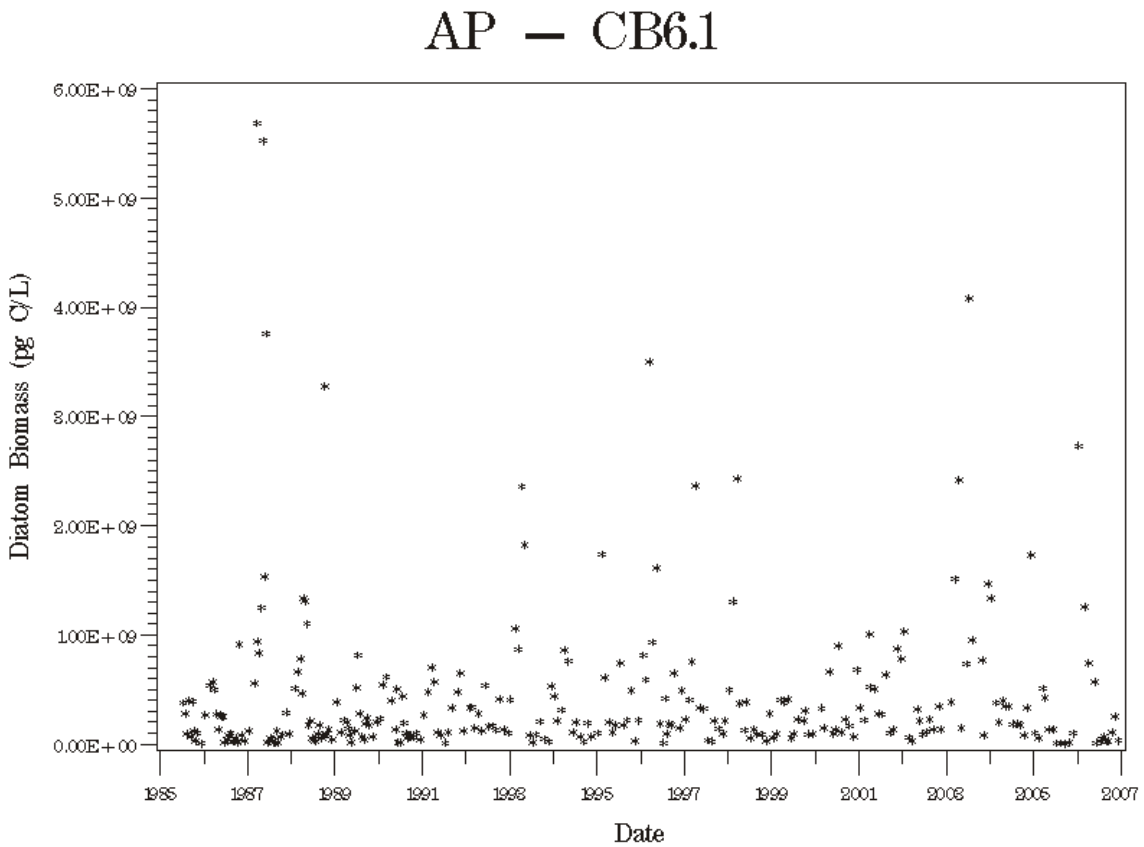


Figure F115. Plot of above pycnocline diatom biomass against time at station CB6.1 for the period of 1985 through 2005.

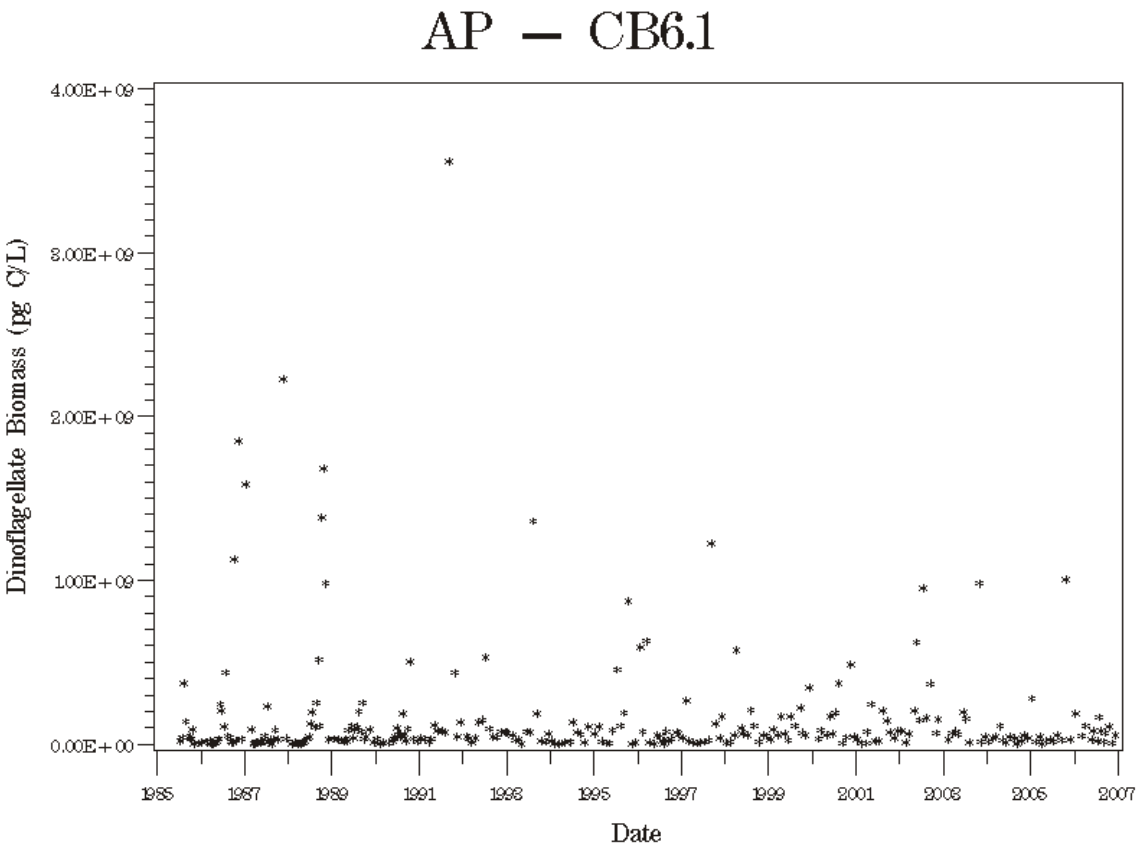


Figure F116. Plot of above pycnocline dinoflagellate biomass against time at station CB6.1 for the period of 1985 through 2005.

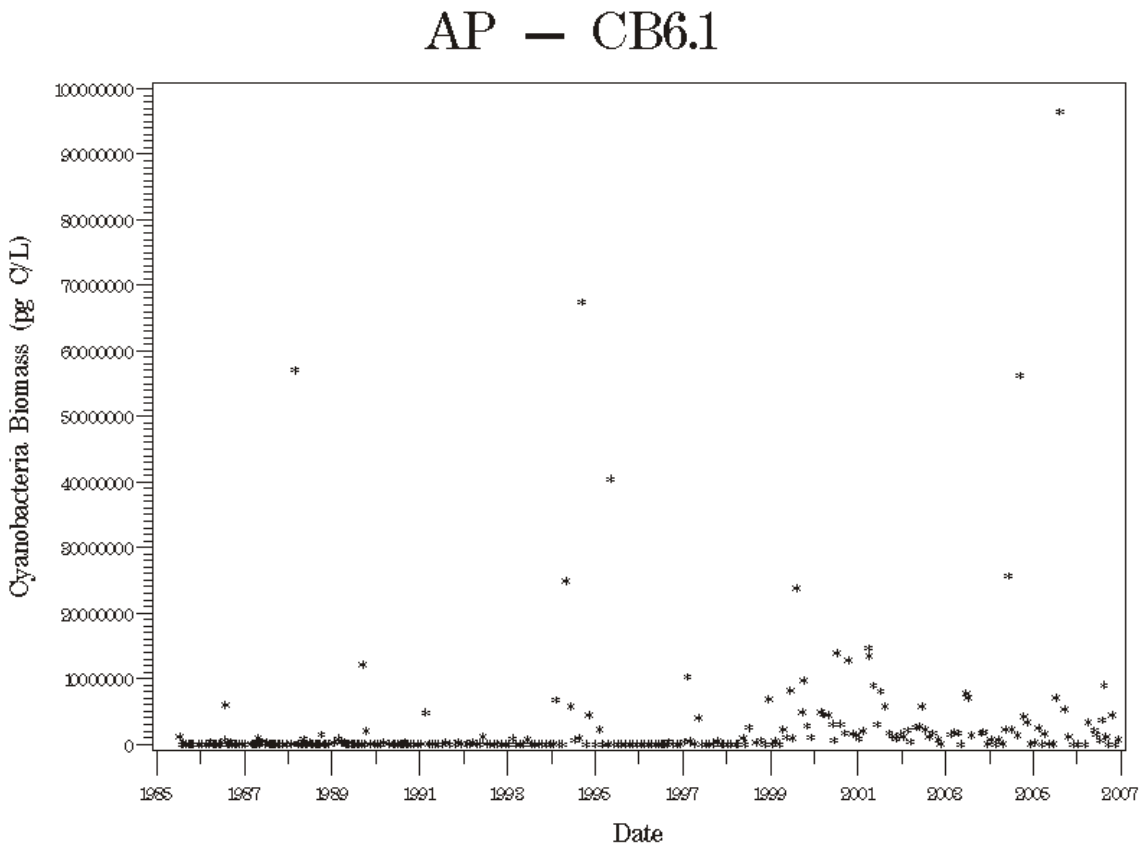


Figure F117. Plot of above pycnocline cyanobacteria biomass against time at station CB6.1 for the period of 1985 through 2005.

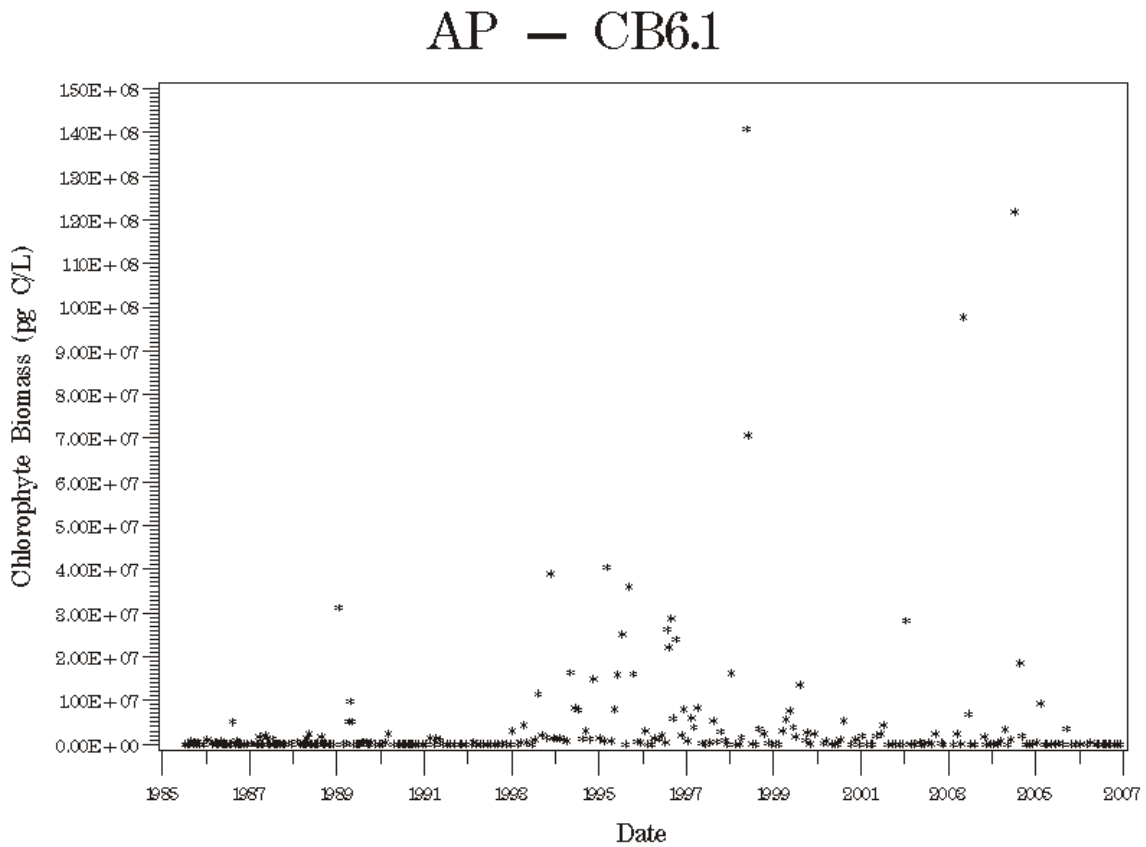


Figure F118. Plot of above pycnocline chlorophyte biomass against time at station CB6.1 for the period of 1985 through 2005.

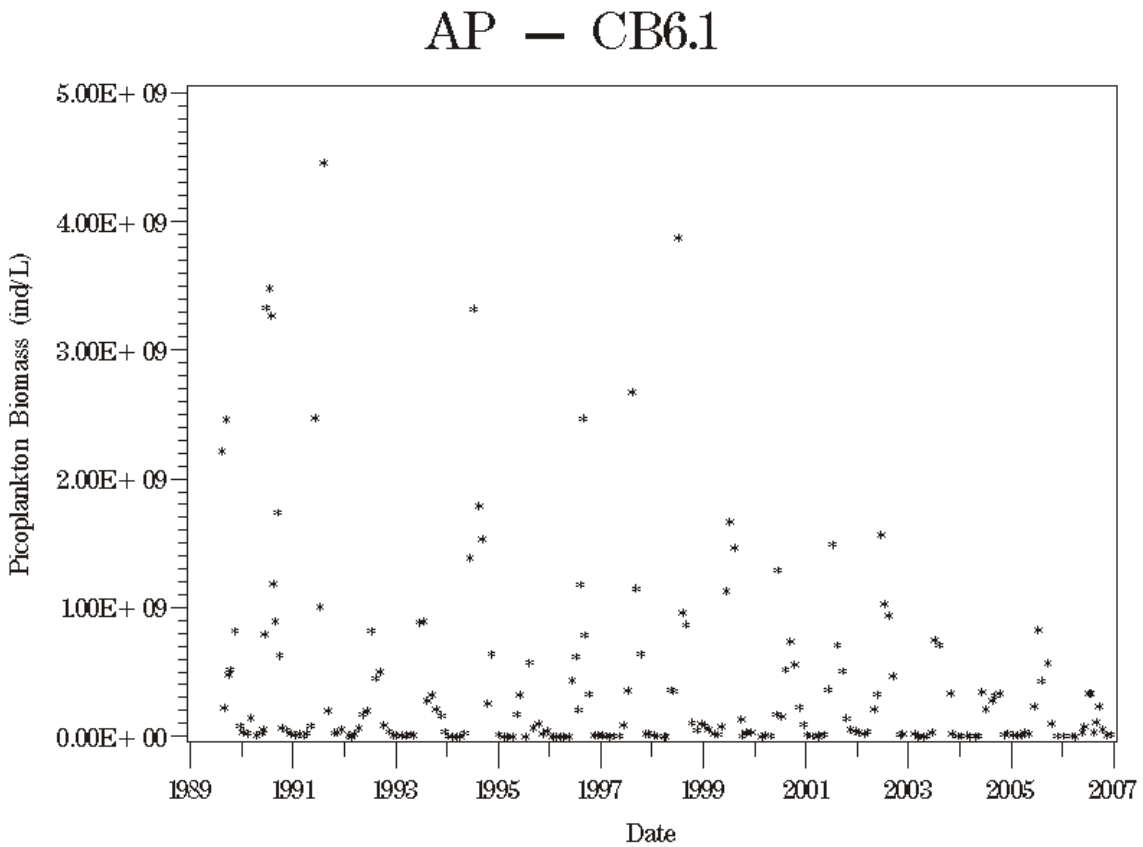


Figure F119. Plot of above pycnocline picoplankton biomass against time at station CB6.1 for the period of 1985 through 2005.

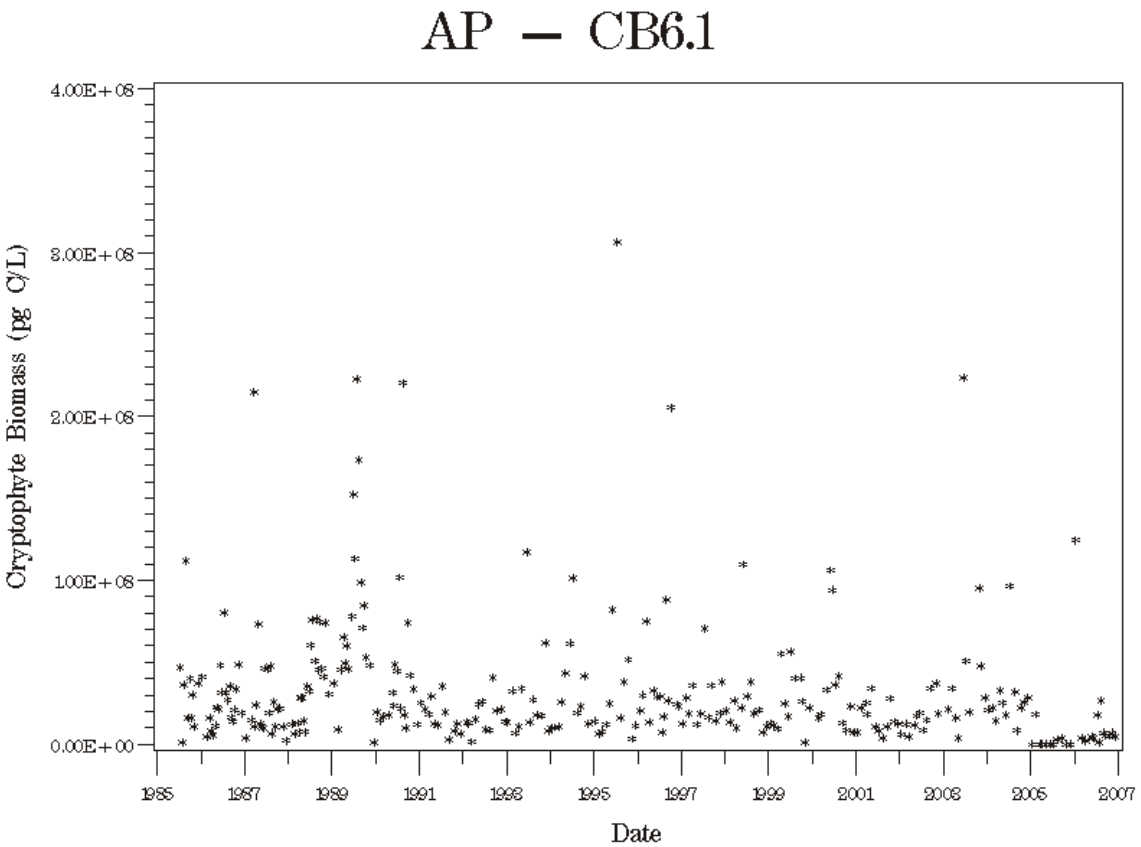


Figure F120. Plot of above pycnocline cryptophyte biomass at station CB6.1 for the period of 1985 through 2005.

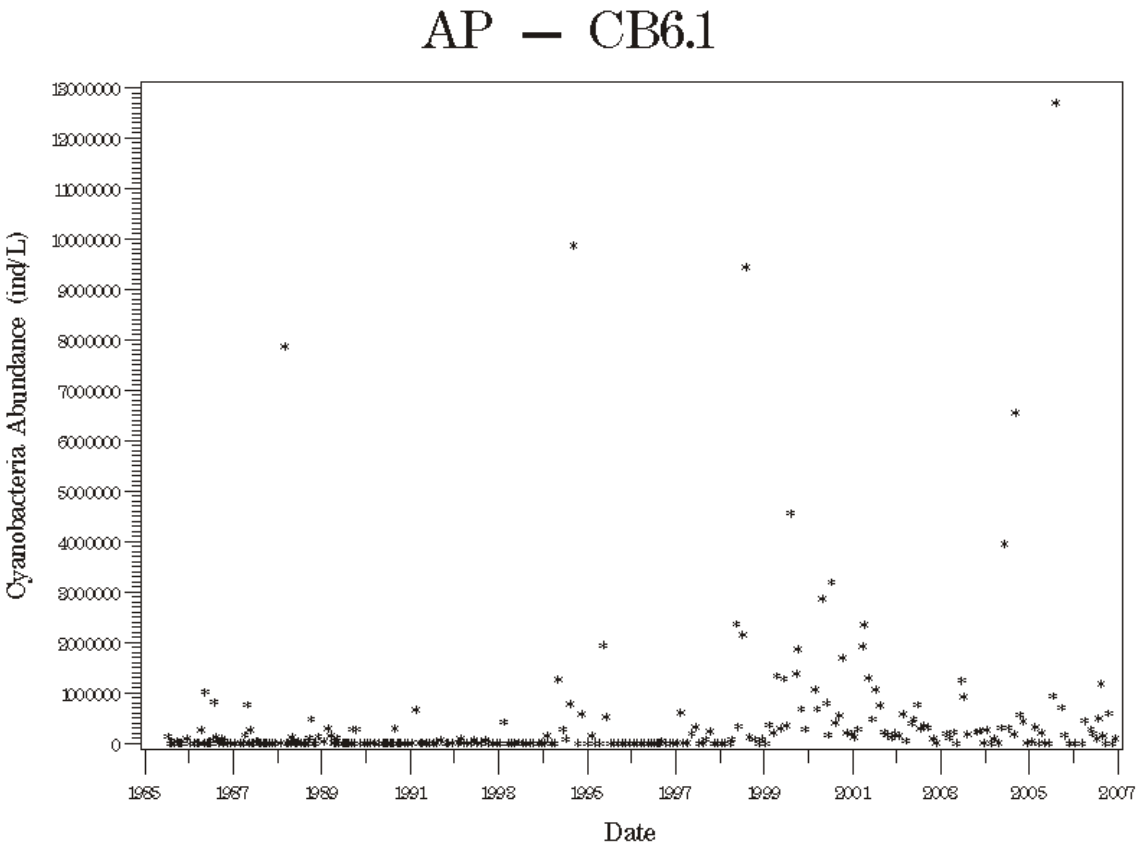


Figure F121. Plot of above pycnocline cyanophyte abundance at station CB6.1 for the period of 1985 through 2005.

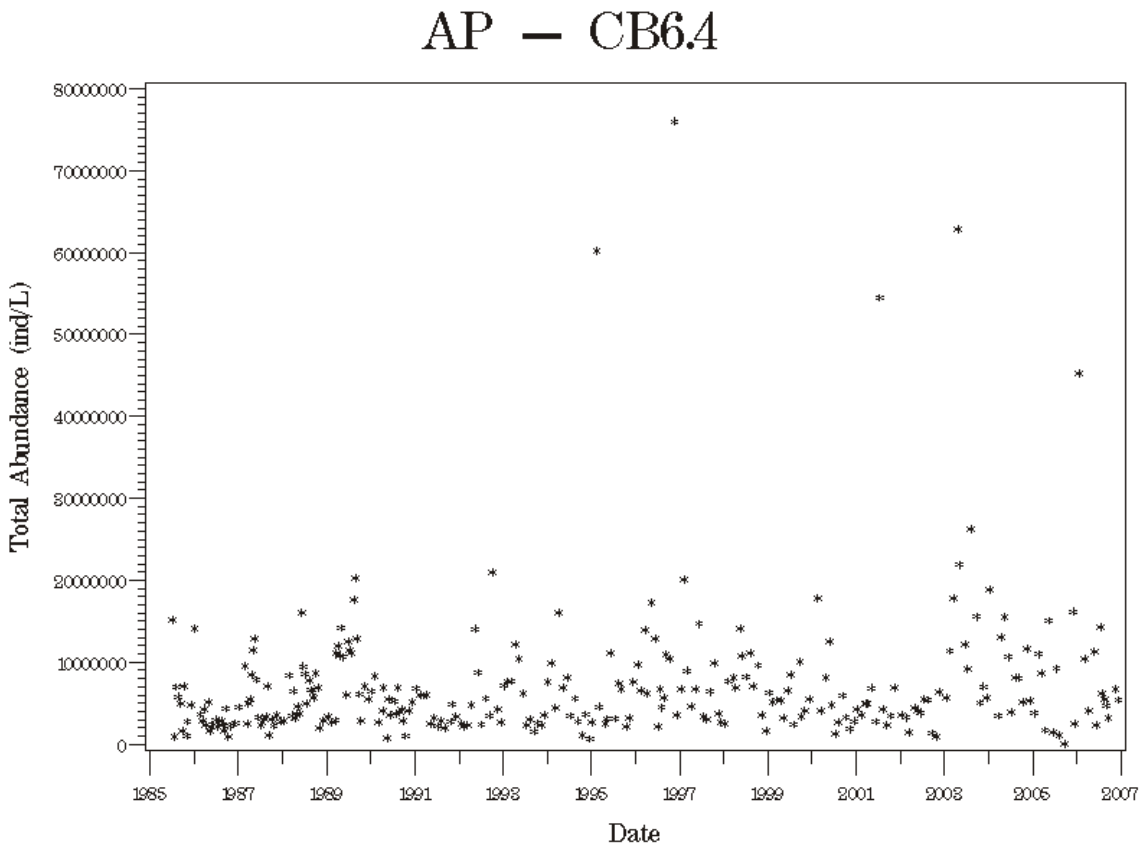


Figure F122. Plot of above pycnocline total phytoplankton abundance against time at station CB6.4 for the period of 1985 through 2005.

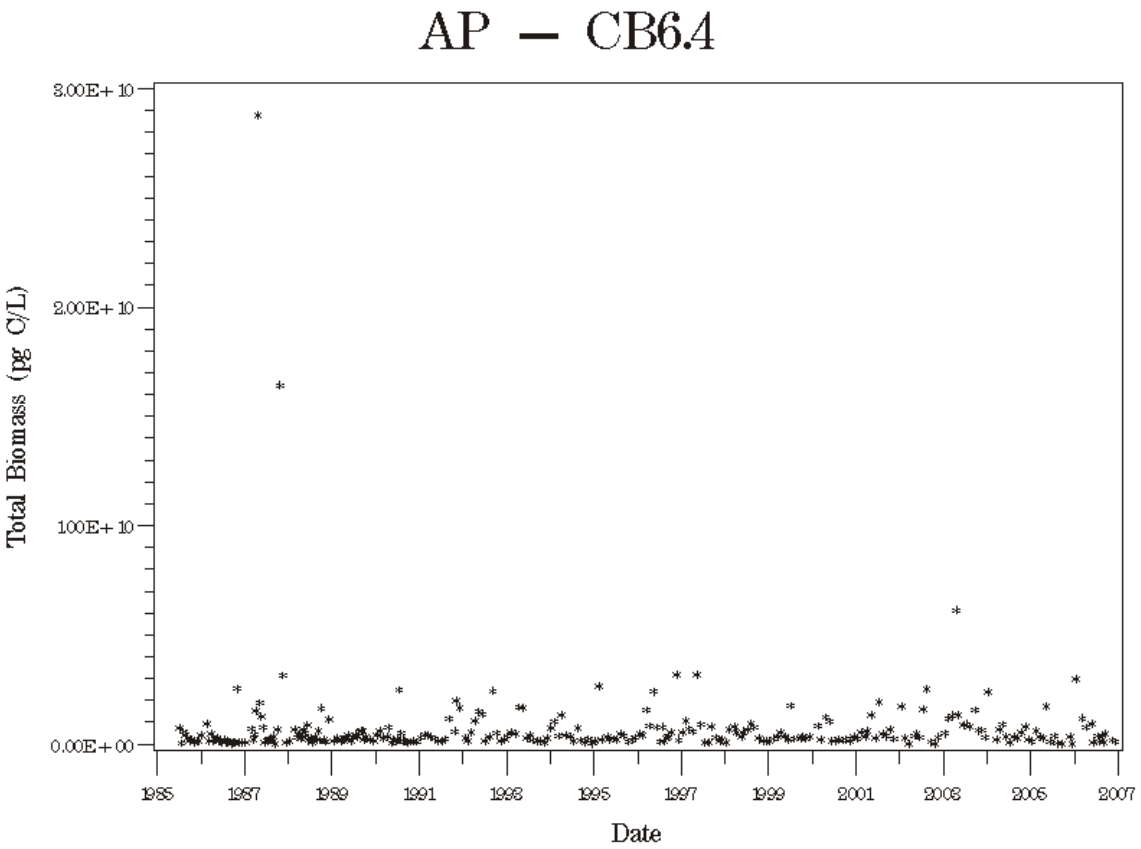


Figure F123. Plot of above pycnocline total phytoplankton biomass against time at station CB6.4 for the period of 1985 through 2005.

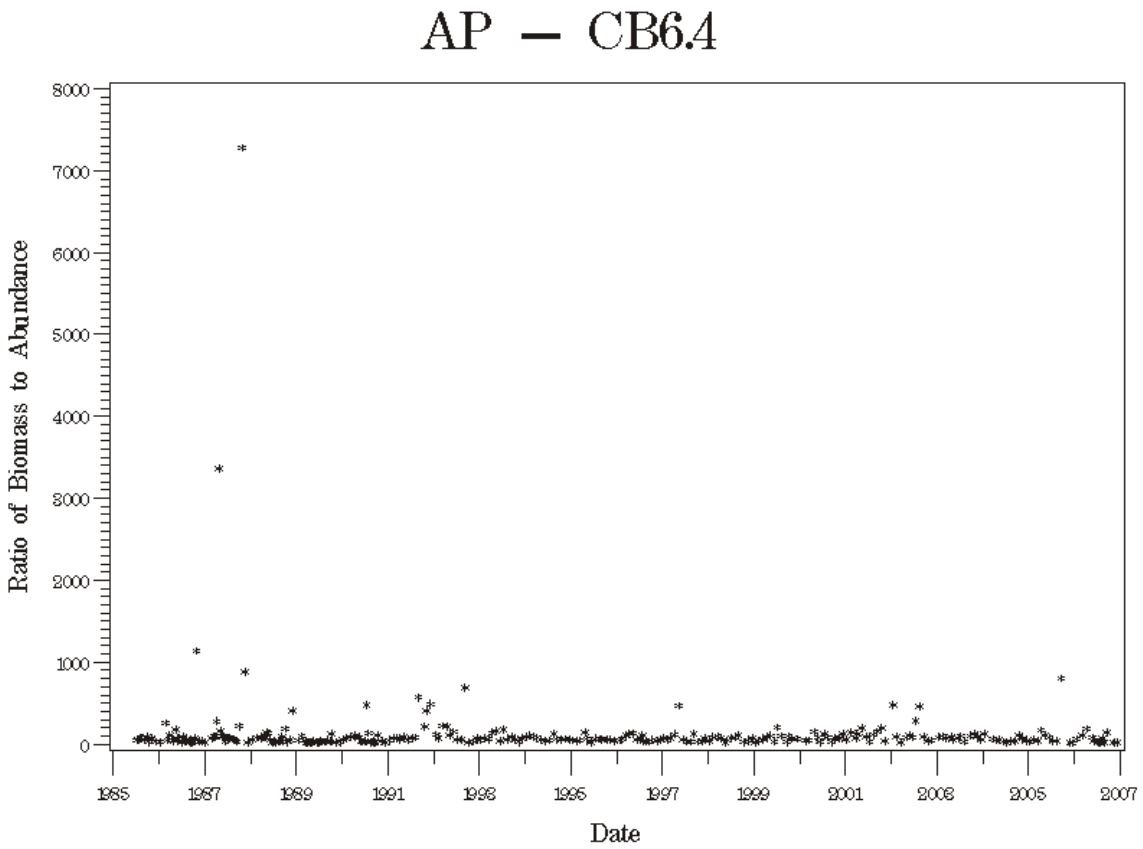


Figure F124. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB6.4 for the period of 1985 through 2005.

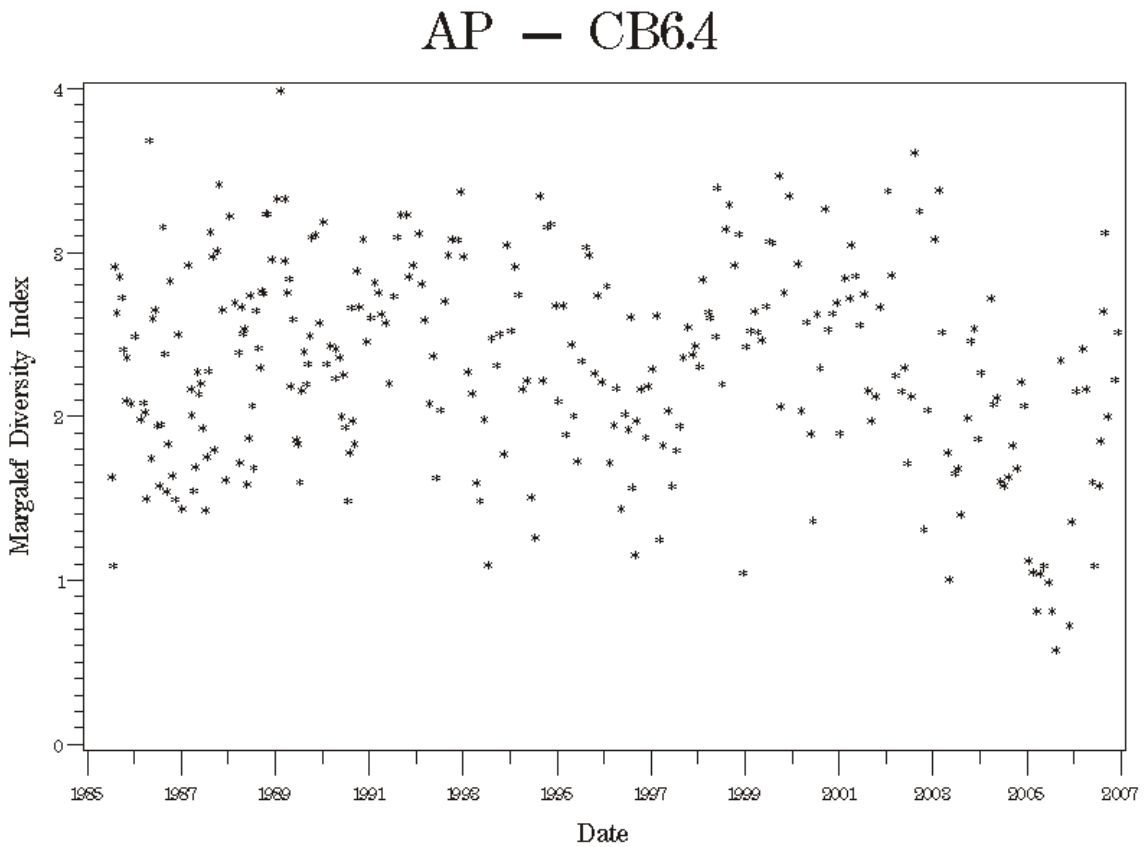


Figure F125. Plot of above pycnocline Margalef diversity index against time at station CB6.4 for the period of 1985 through 2005.

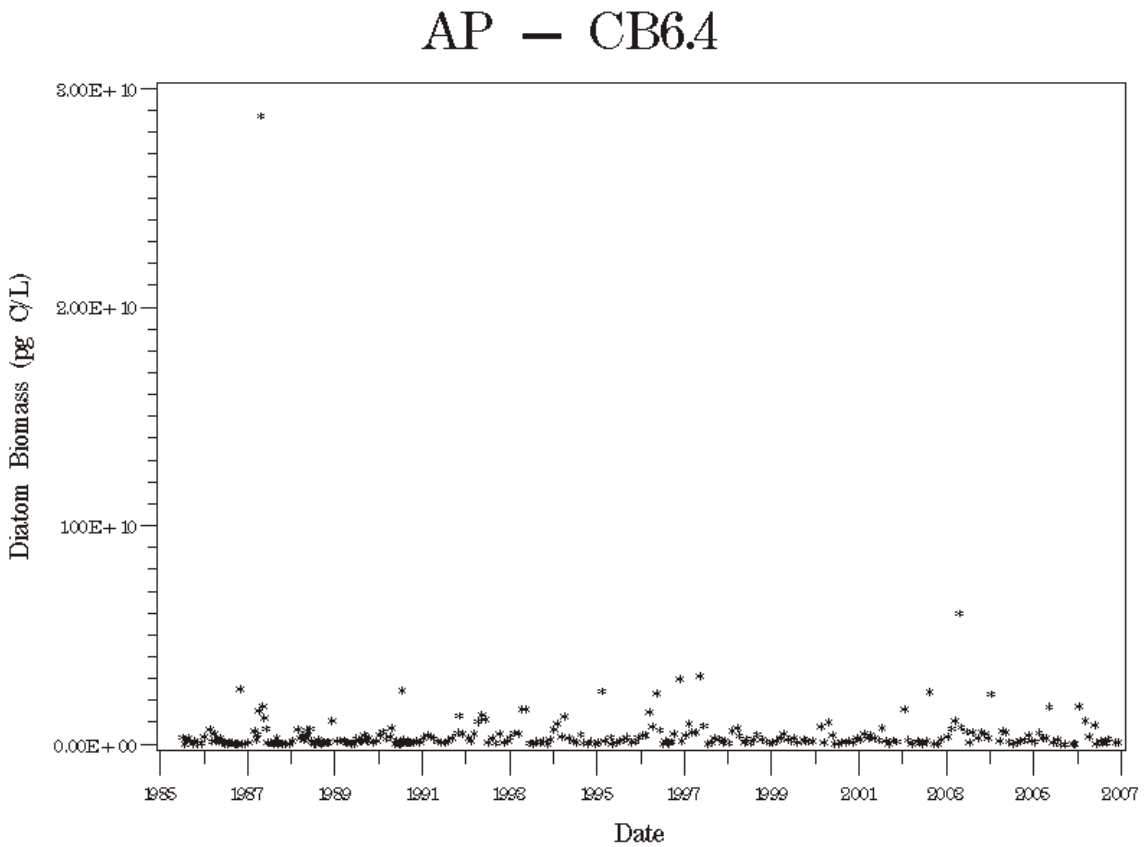


Figure F126. Plot of above pycnocline diatom biomass against time at station CB6.4 for the period of 1985 through 2005.

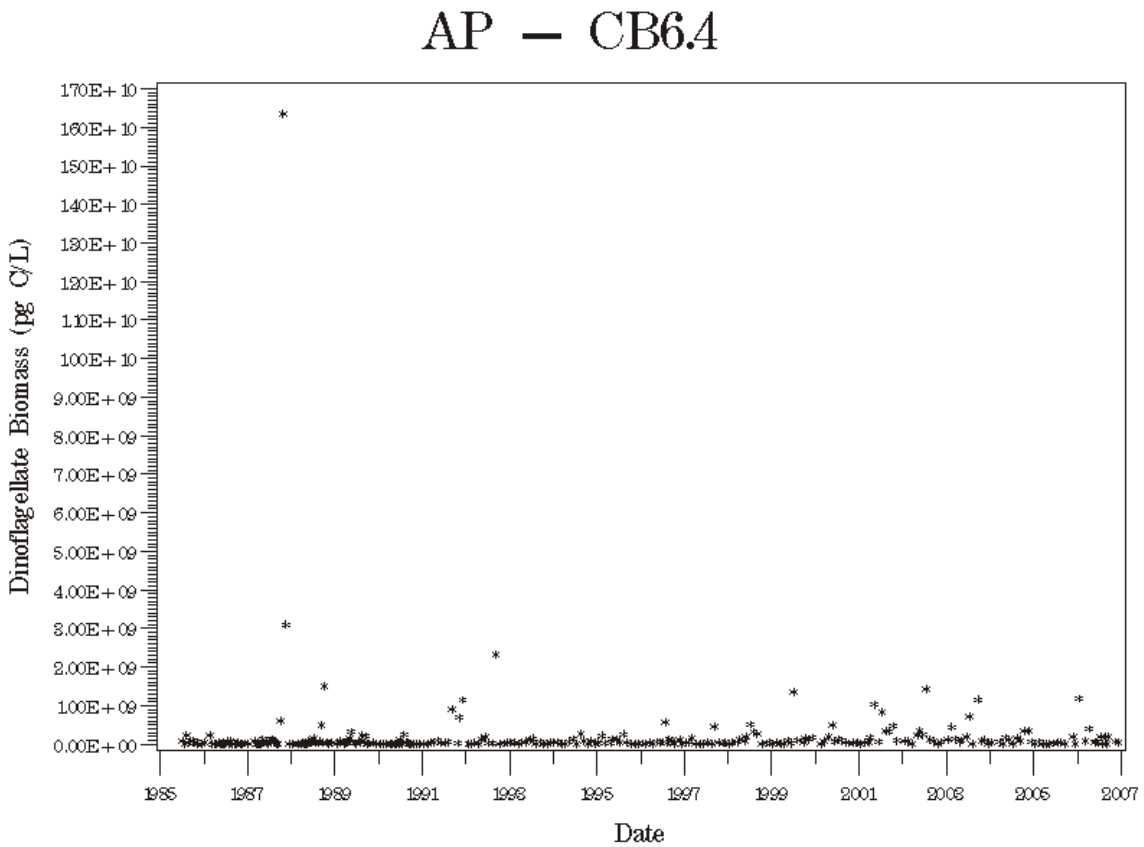


Figure F127. Plot of above pycnocline dinoflagellate biomass against time at station CB6.4 for the period of 1985 through 2005.

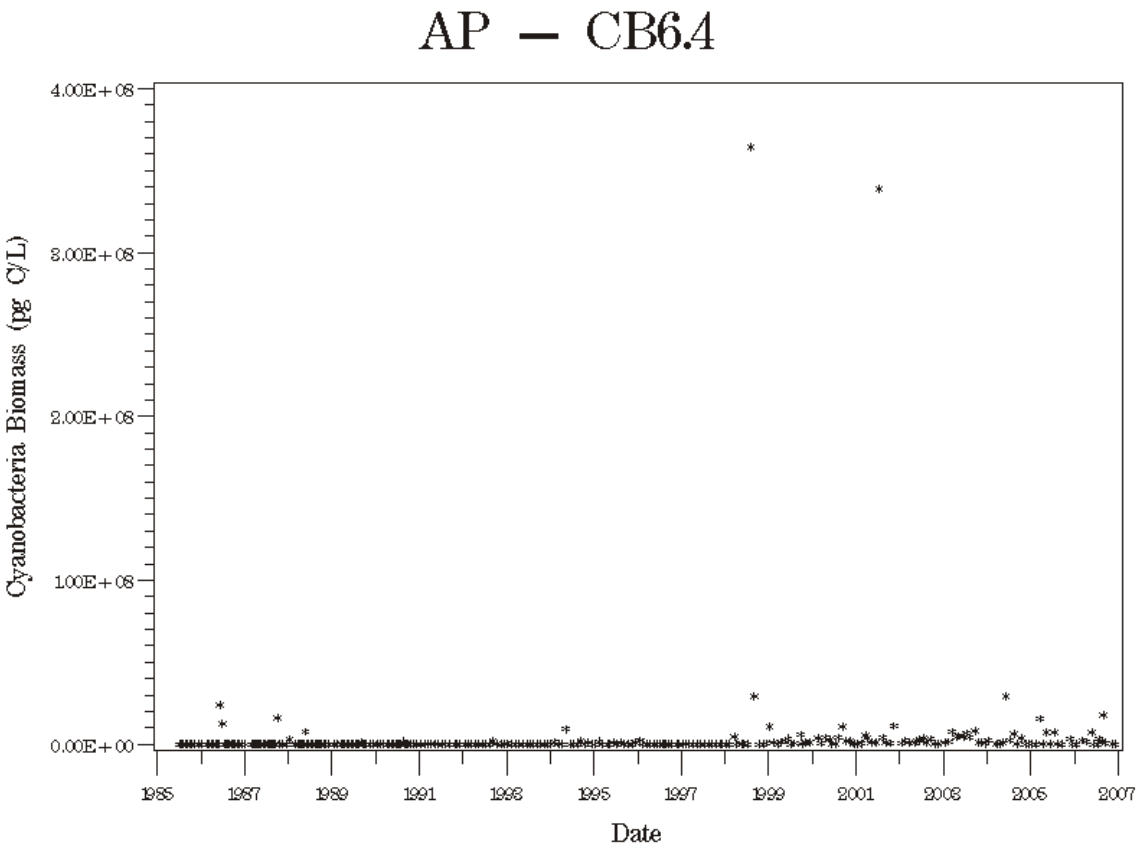


Figure F128. Plot of above pycnocline cyanobacteria biomass against time at station CB6.4 for the period of 1985 through 2005.

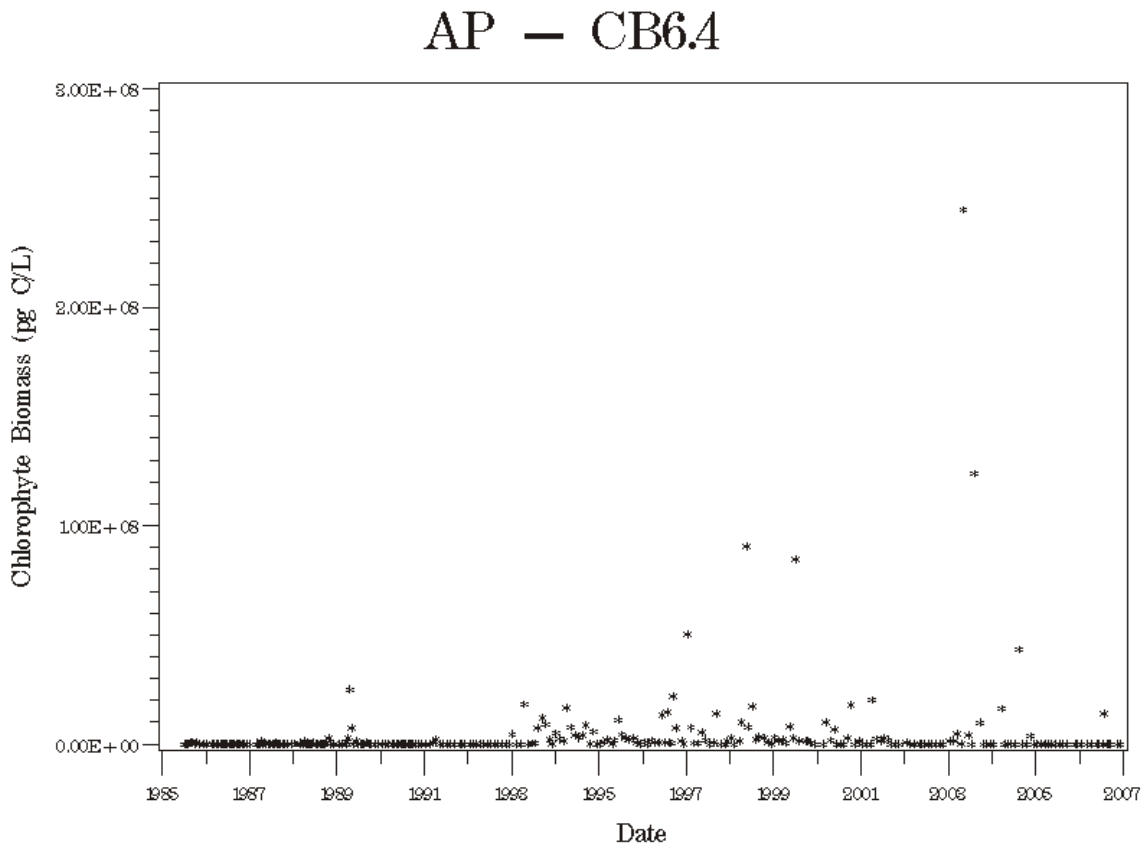


Figure F129. Plot of above pycnocline chlorophyte biomass against time at station CB6.4 for the period of 1985 through 2005.

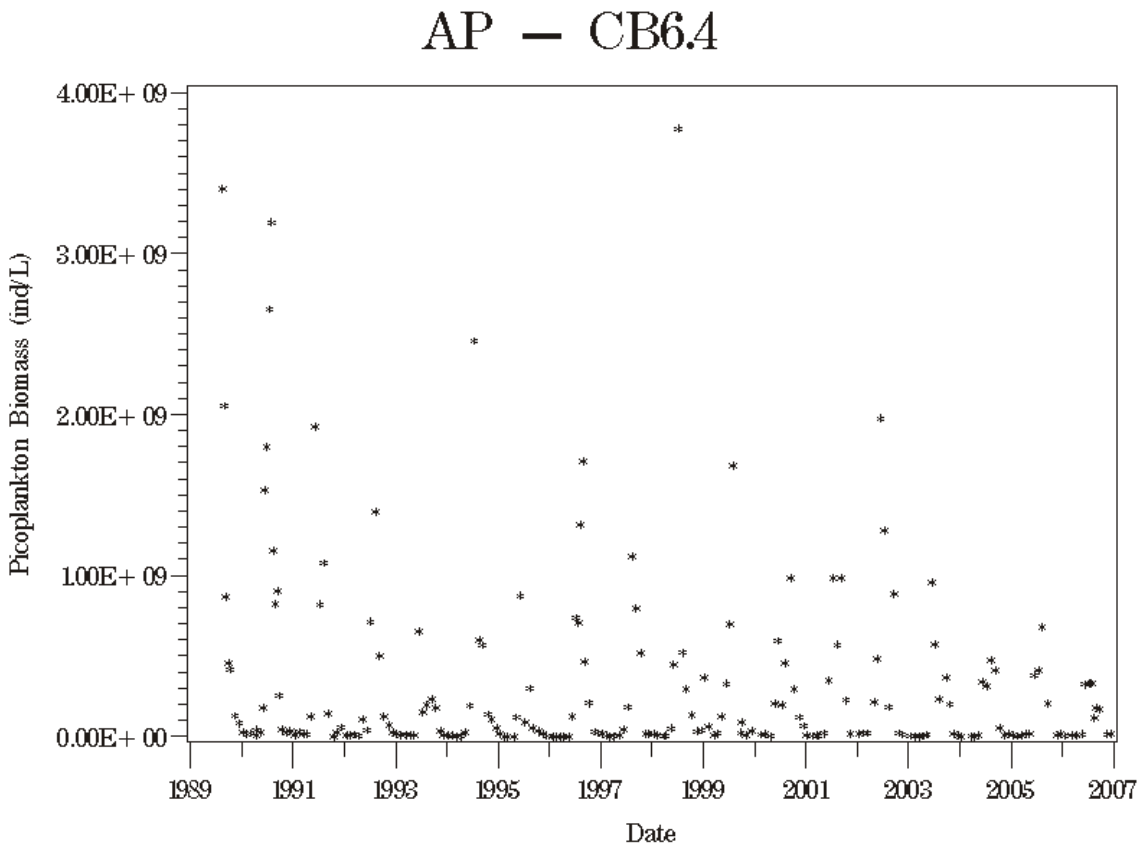


Figure F130. Plot of above pycnocline picoplankton biomass against time at station CB6.4 for the period of 1985 through 2005.

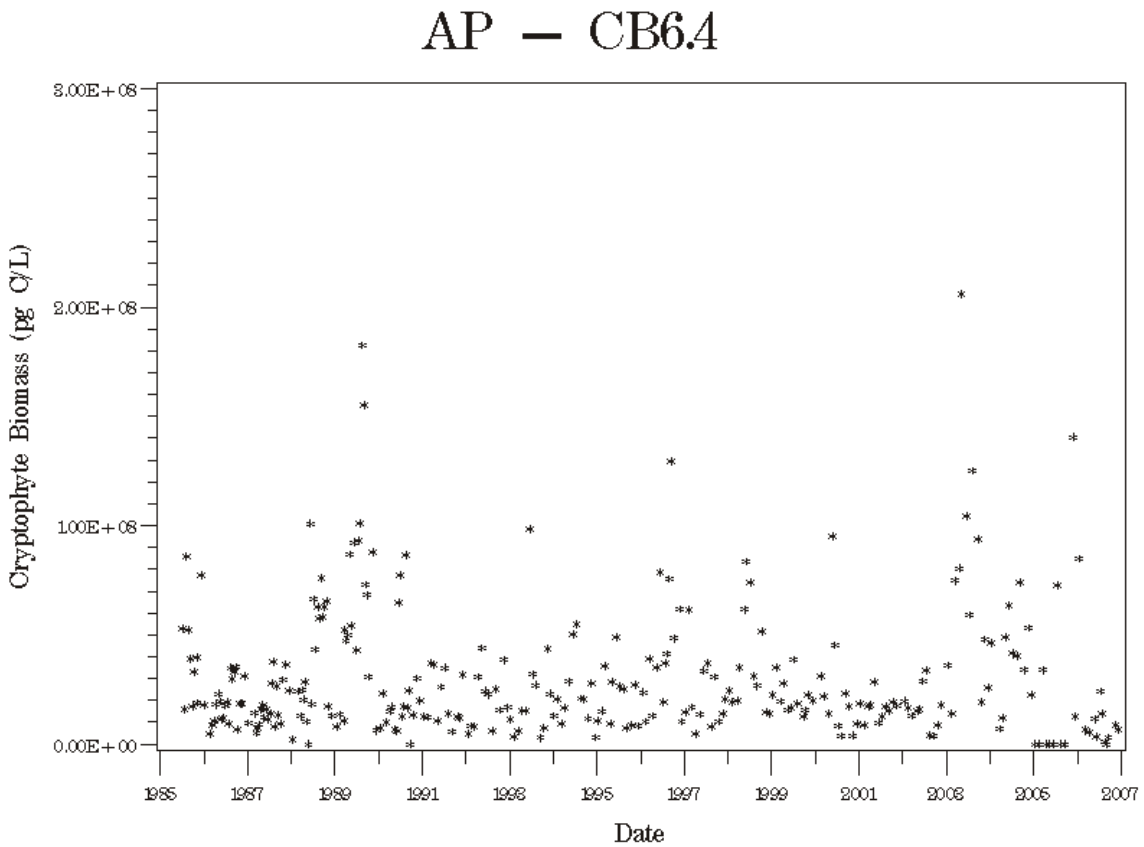


Figure F13l. Plot of above pycnocline cryptophyte biomass at station CB6.4 for the period of 1985 through 2005.

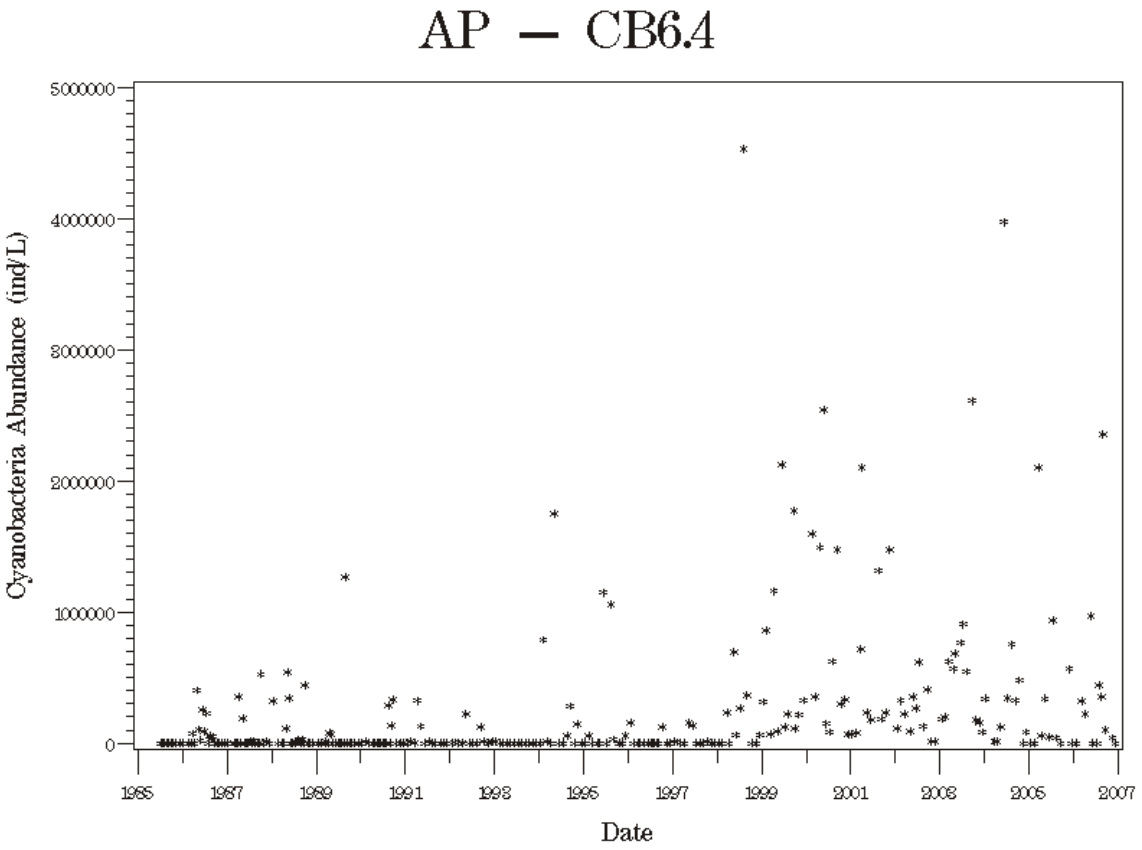


Figure F132. Plot of above pycnocline cyanophyte abundance at station CB6.4 for the period of 1985 through 2005.

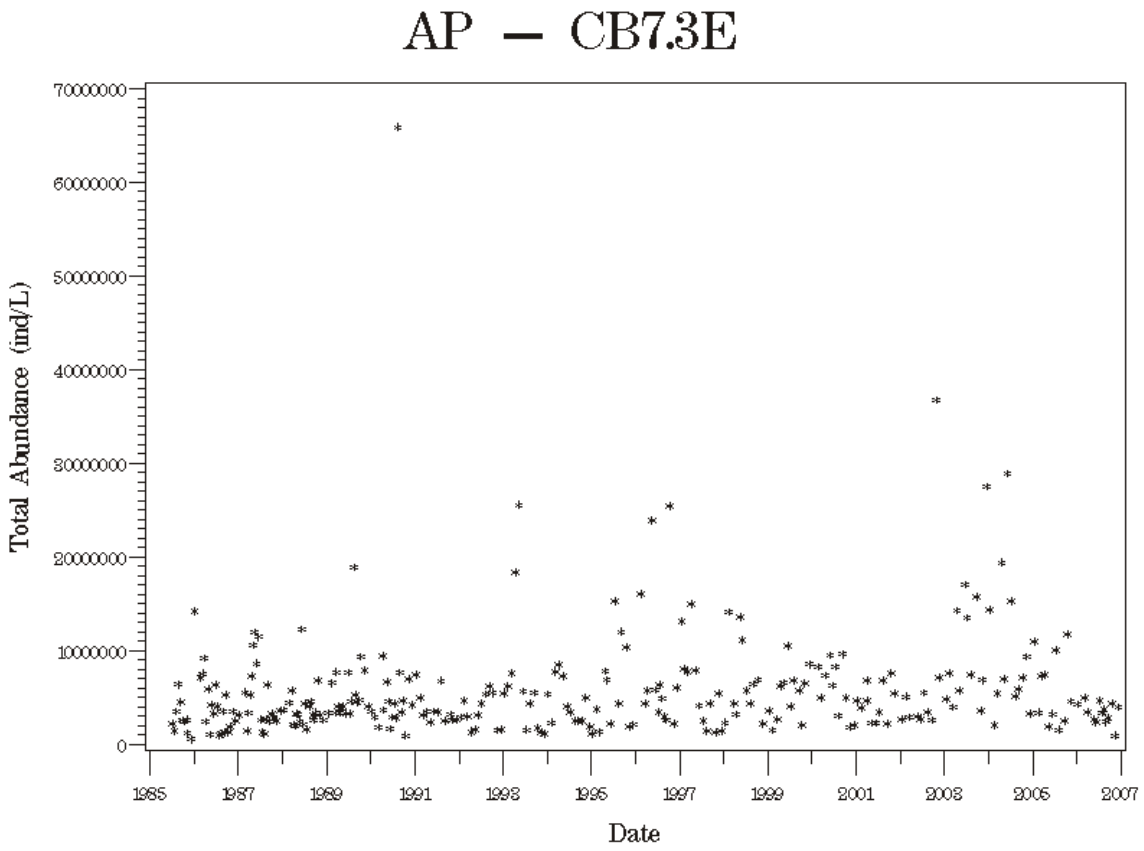


Figure F133. Plot of above pycnocline total phytoplankton abundance against time at station CB7.3E for the period of 1985 through 2005.

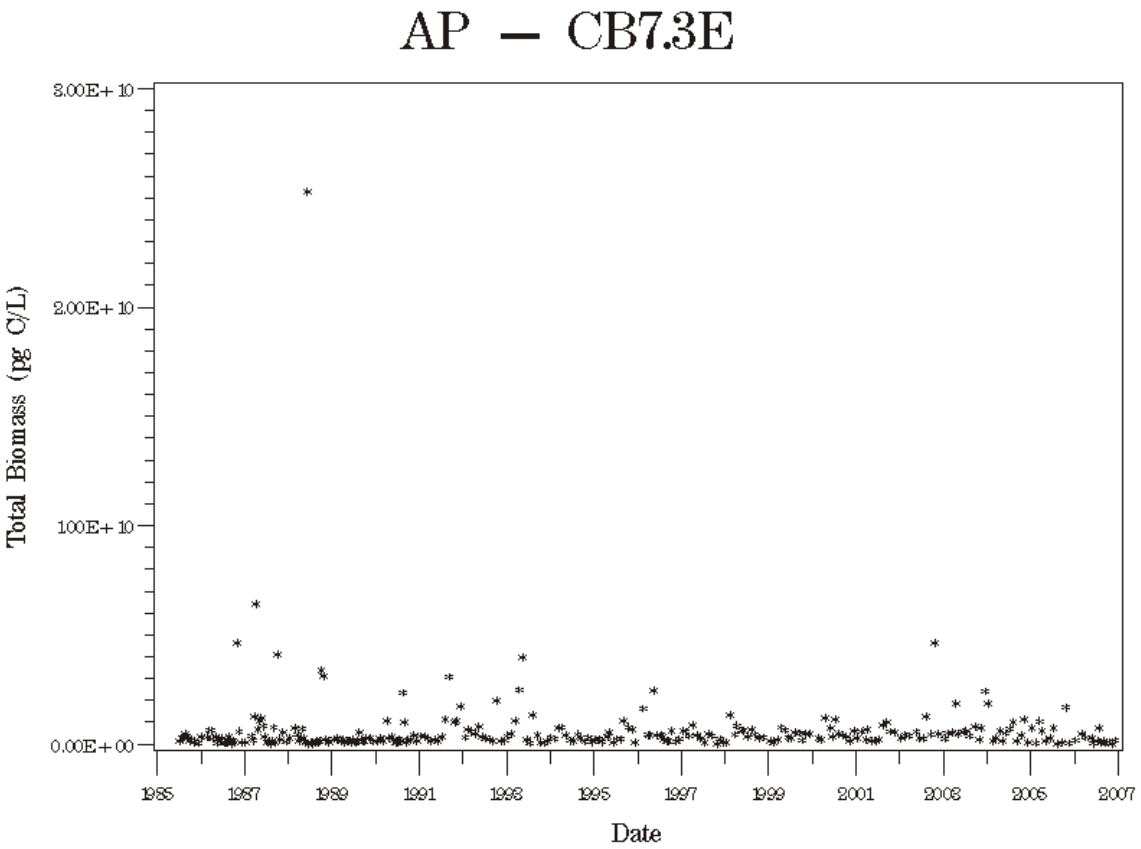


Figure F134. Plot of above pycnocline total phytoplankton biomass against time at station CB7.3E for the period of 1985 through 2005.

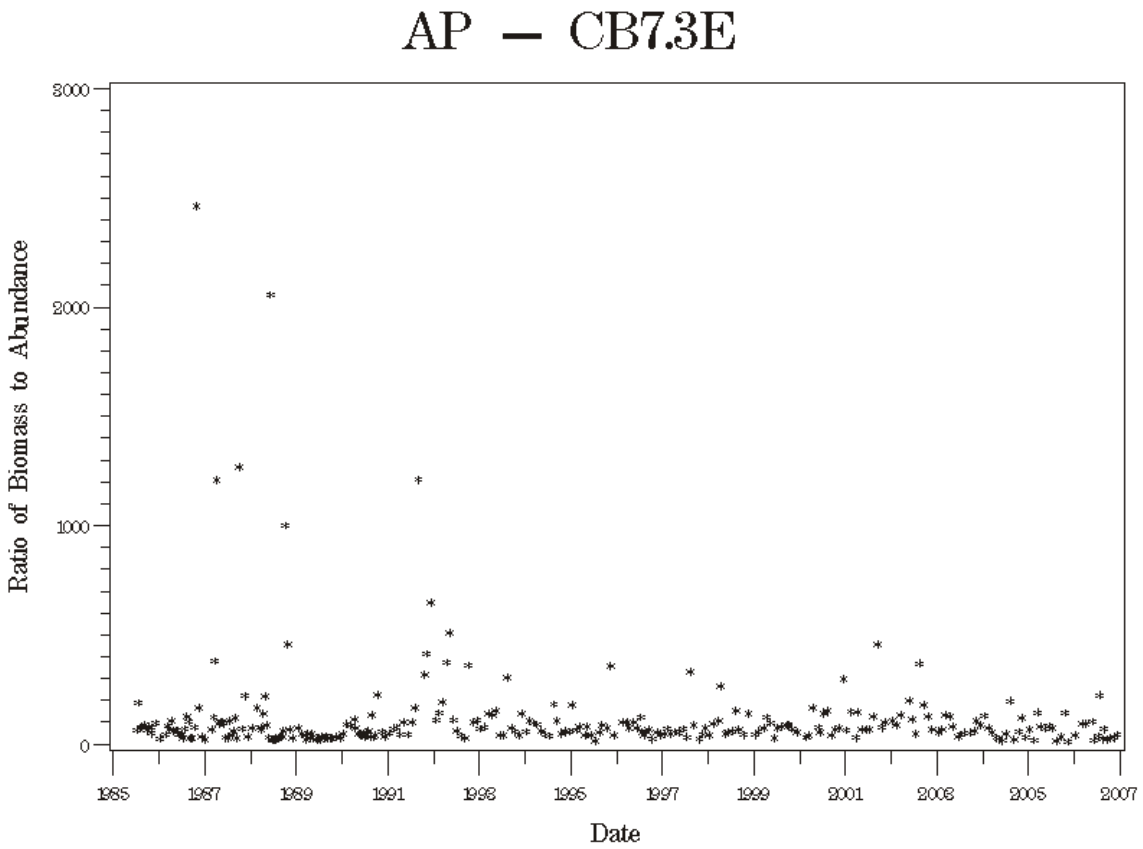


Figure F135. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB7.3E for the period of 1985 through 2005.

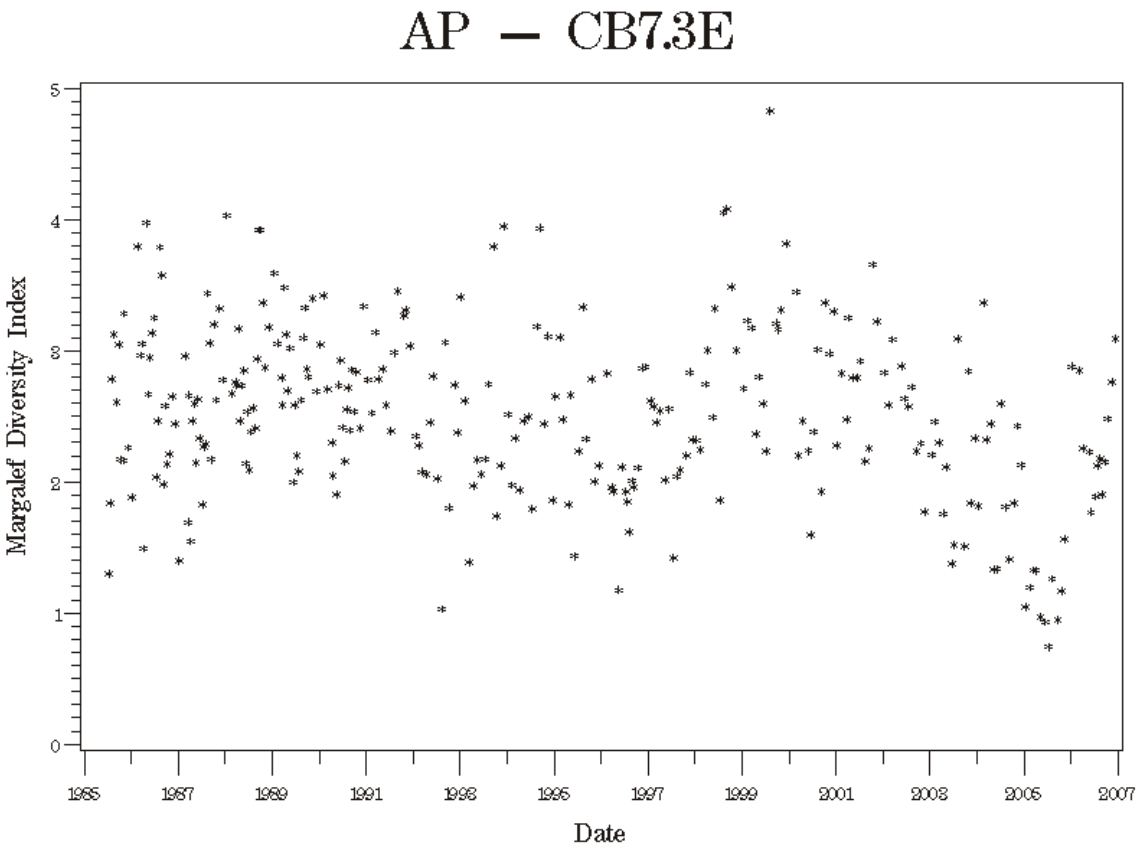


Figure F136. Plot of above pycnocline Margalef diversity index against time at station CB7.3E for the period of 1985 through 2005.

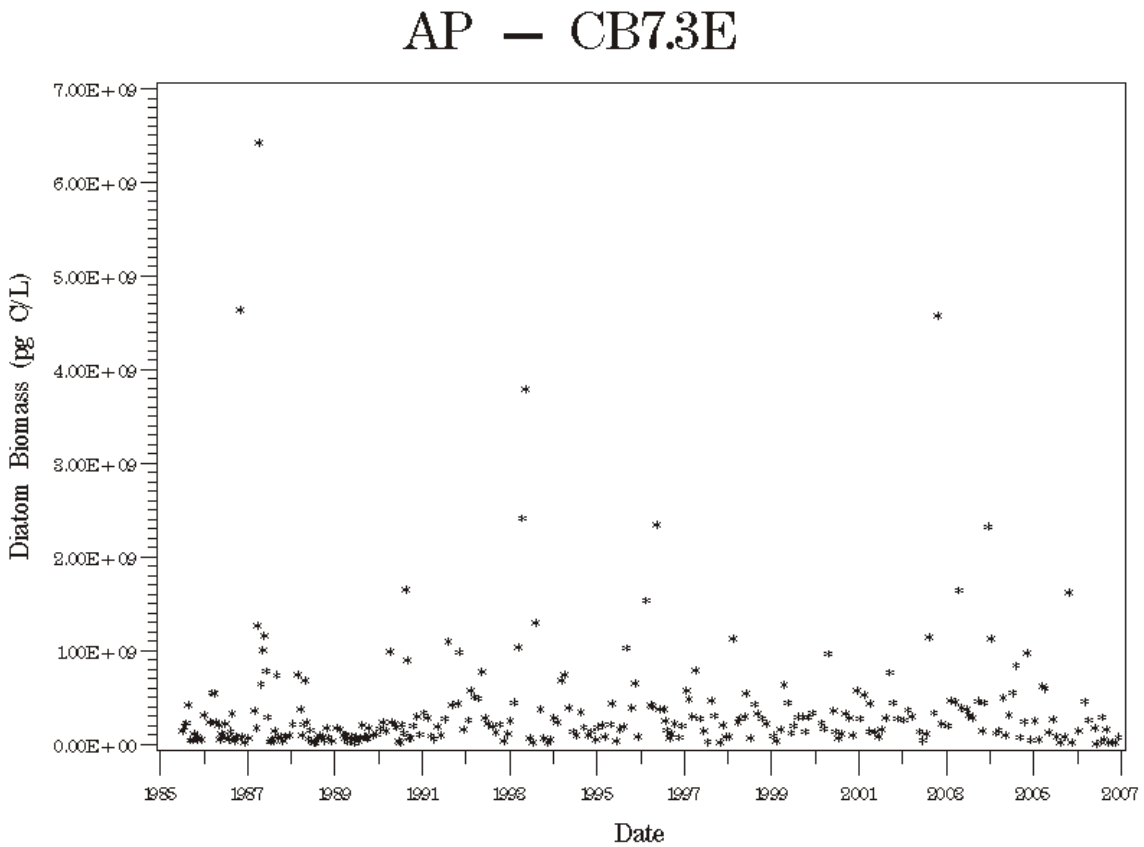


Figure F137. Plot of above pycnocline diatom biomass against time at station CB7.3E for the period of 1985 through 2005.

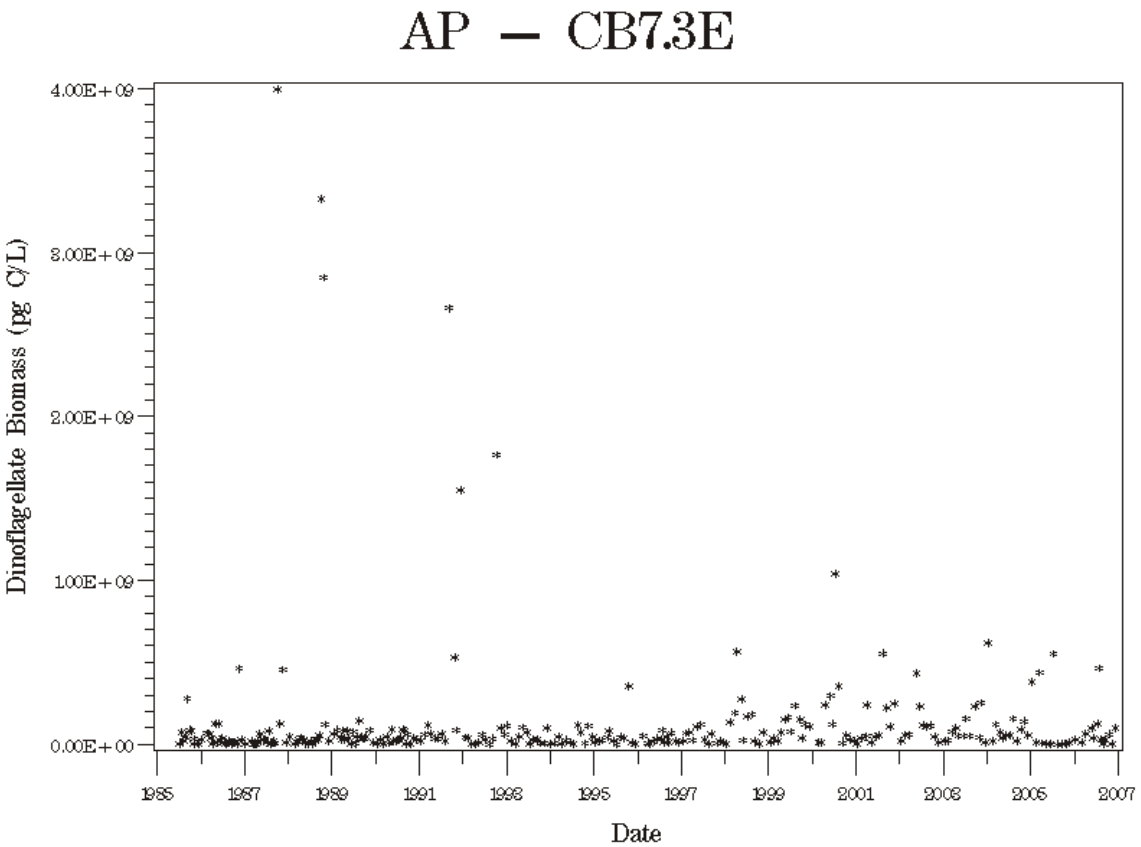


Figure F138. Plot of above pycnocline dinoflagellate biomass against time at station CB7.3E for the period of 1985 through 2005.

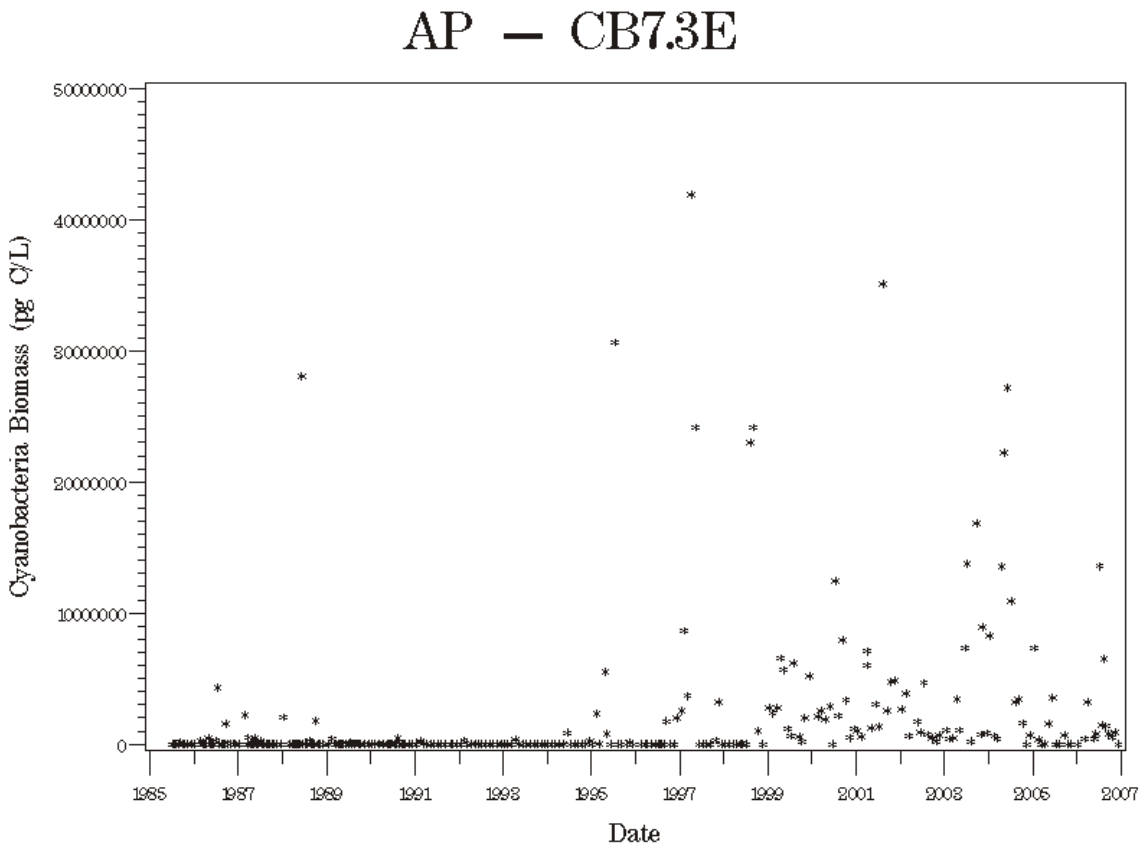


Figure F139. Plot of above pycnocline cyanobacteria biomass against time at station CB7.3E for the period of 1985 through 2005.

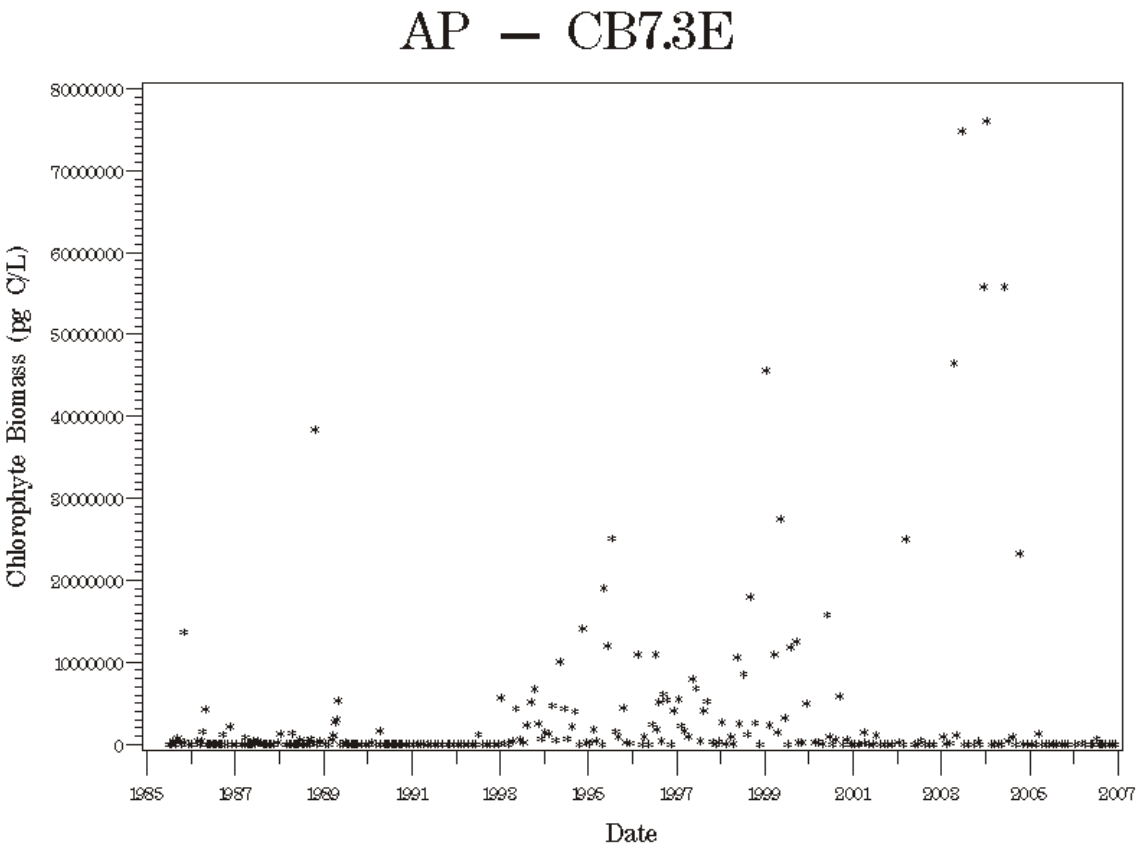


Figure F140. Plot of above pycnocline chlorophyte biomass against time at station CB7.3E for the period of 1985 through 2005.

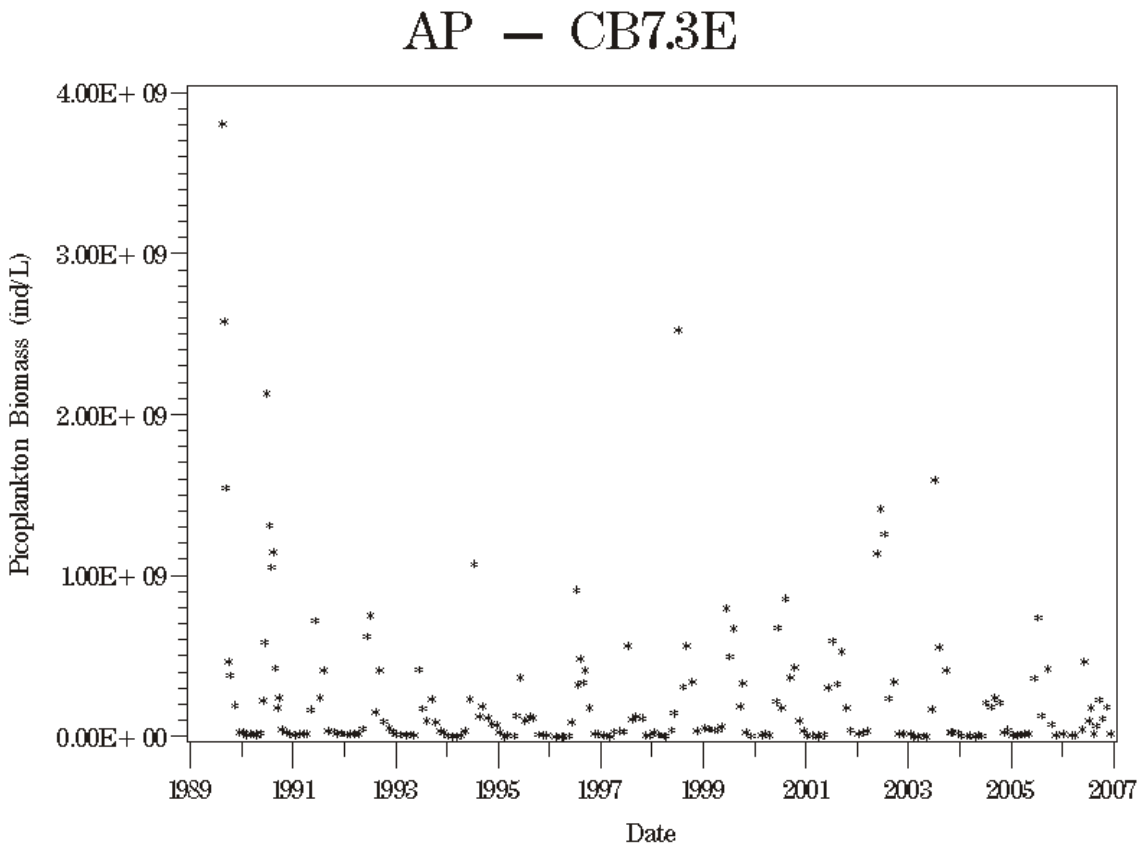


Figure F141. Plot of above pycnocline picoplankton biomass against time at station CB7.3E for the period of 1985 through 2005.

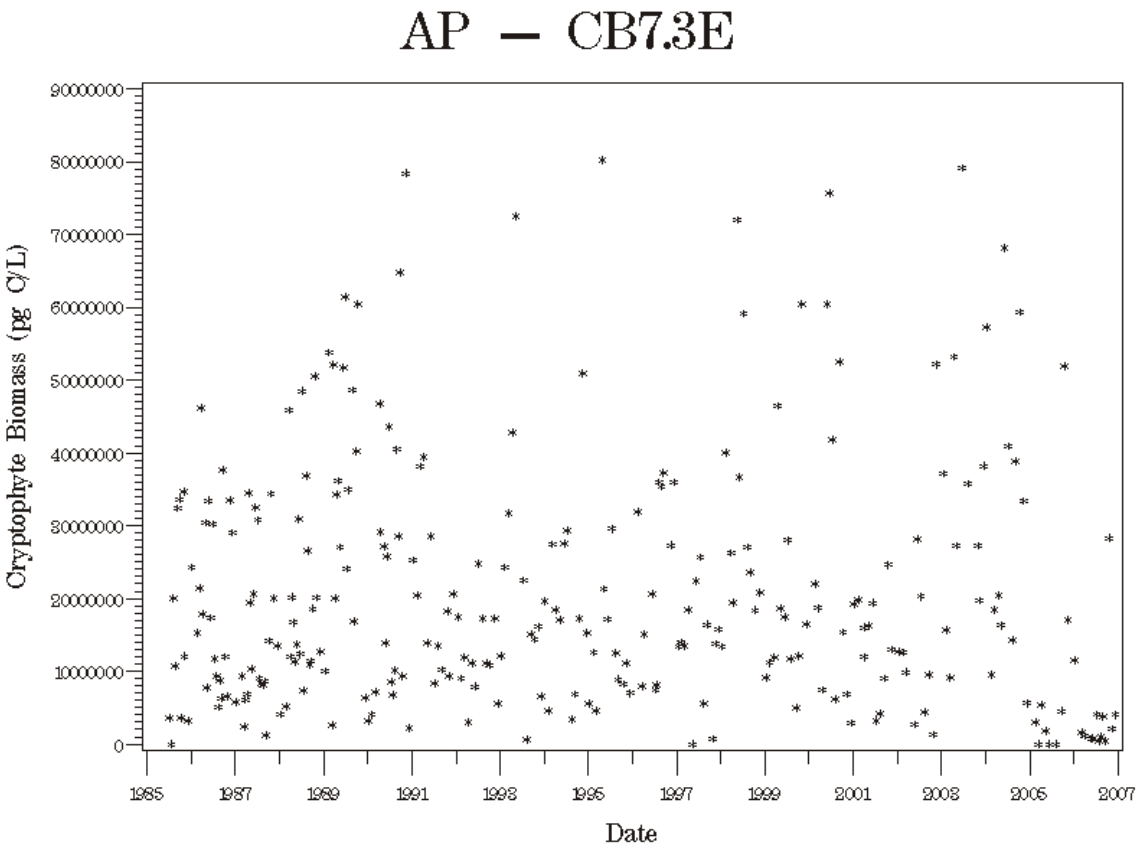


Figure F142. Plot of above pycnocline cryptophyte biomass at station CB7.3E for the period of 1985 through 2005.

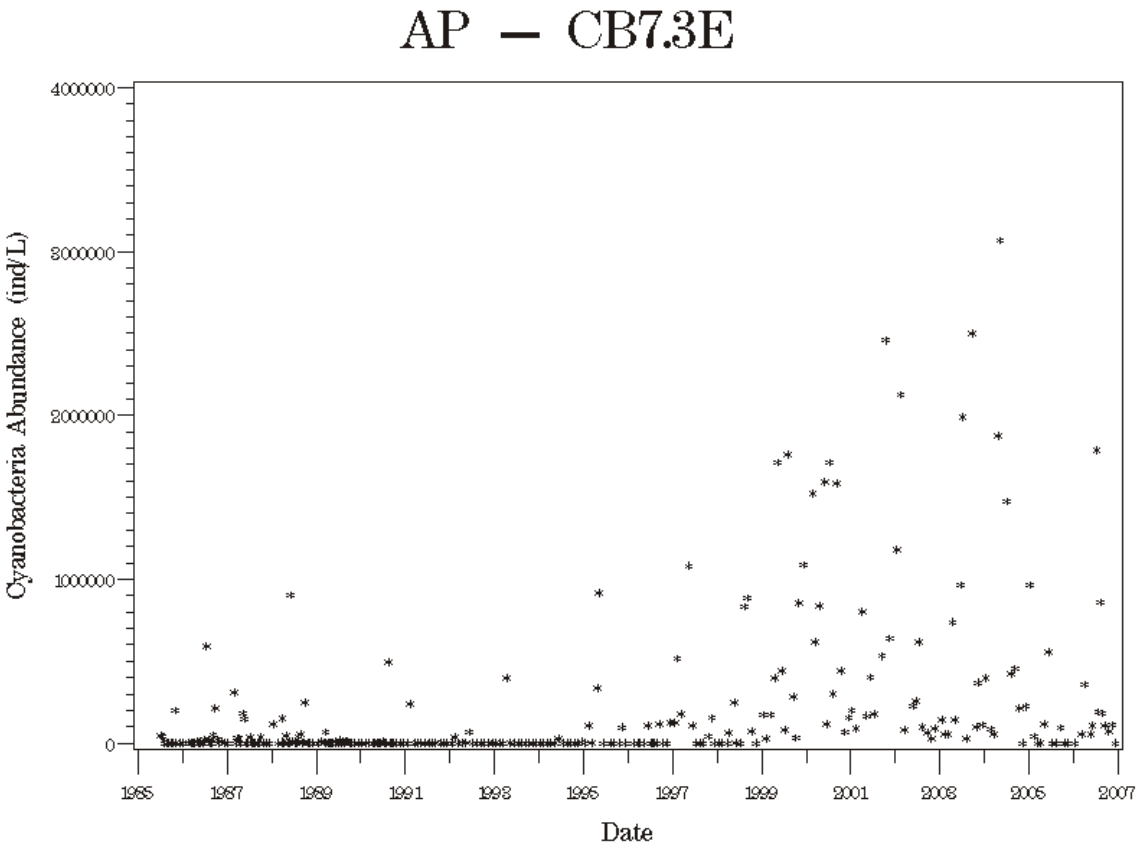


Figure F143. Plot of above pycnocline cyanophyte abundance at station CB7.3E for the period of 1985 through 2005.

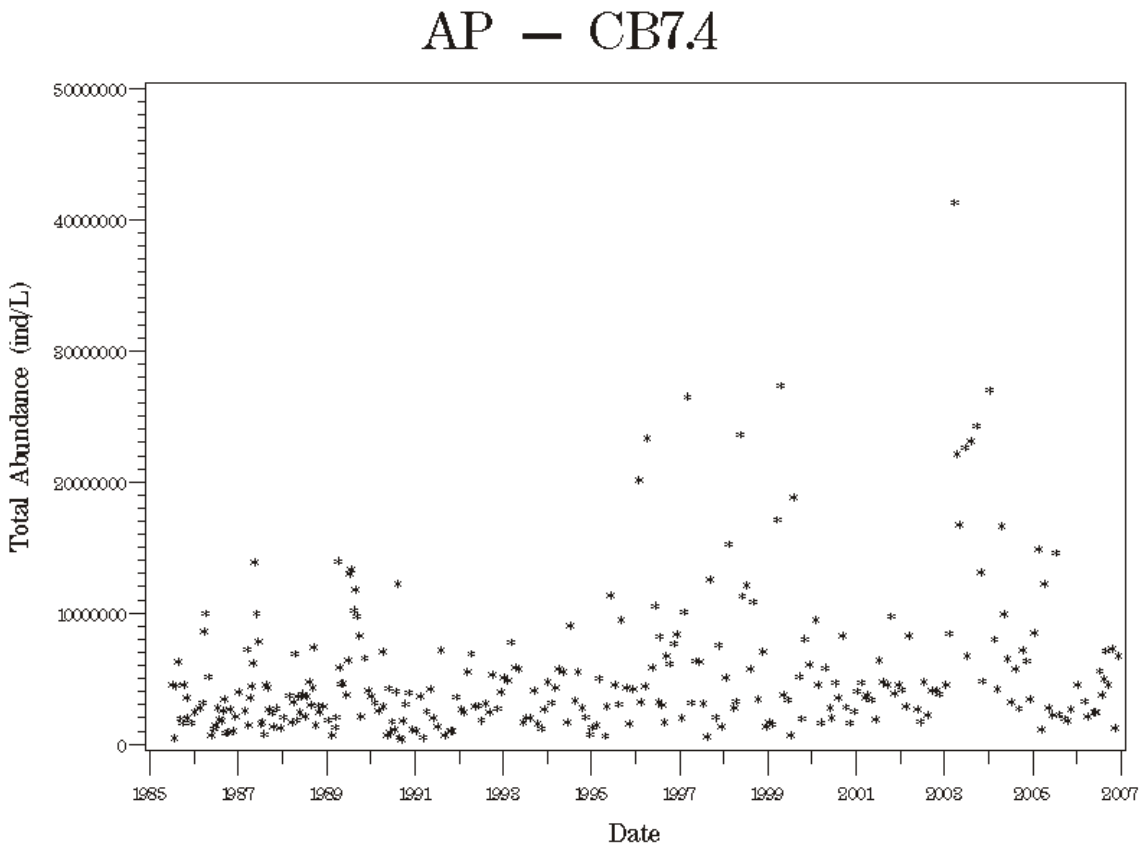


Figure F144. Plot of above pycnocline total phytoplankton abundance against time at station CB7.4 for the period of 1985 through 2005.

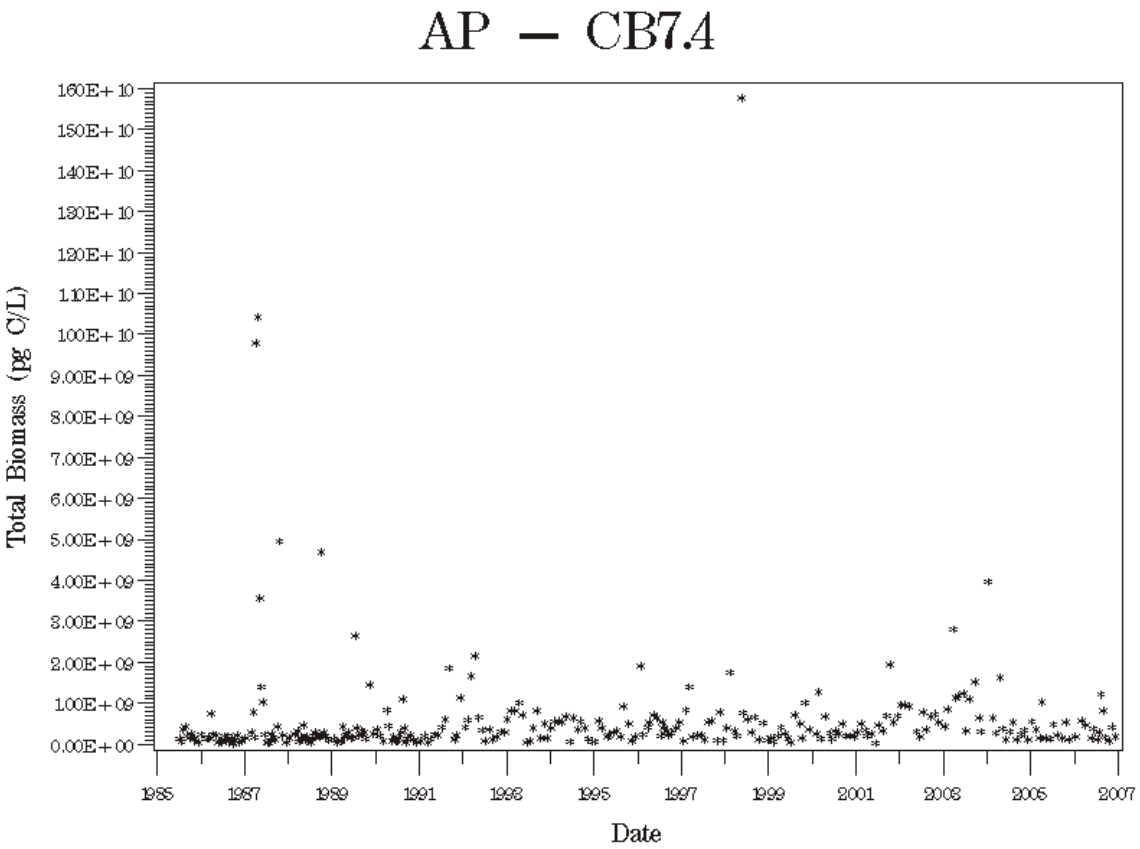


Figure F145. Plot of above pycnocline total phytoplankton biomass against time at station CB7.4 for the period of 1985 through 2005.

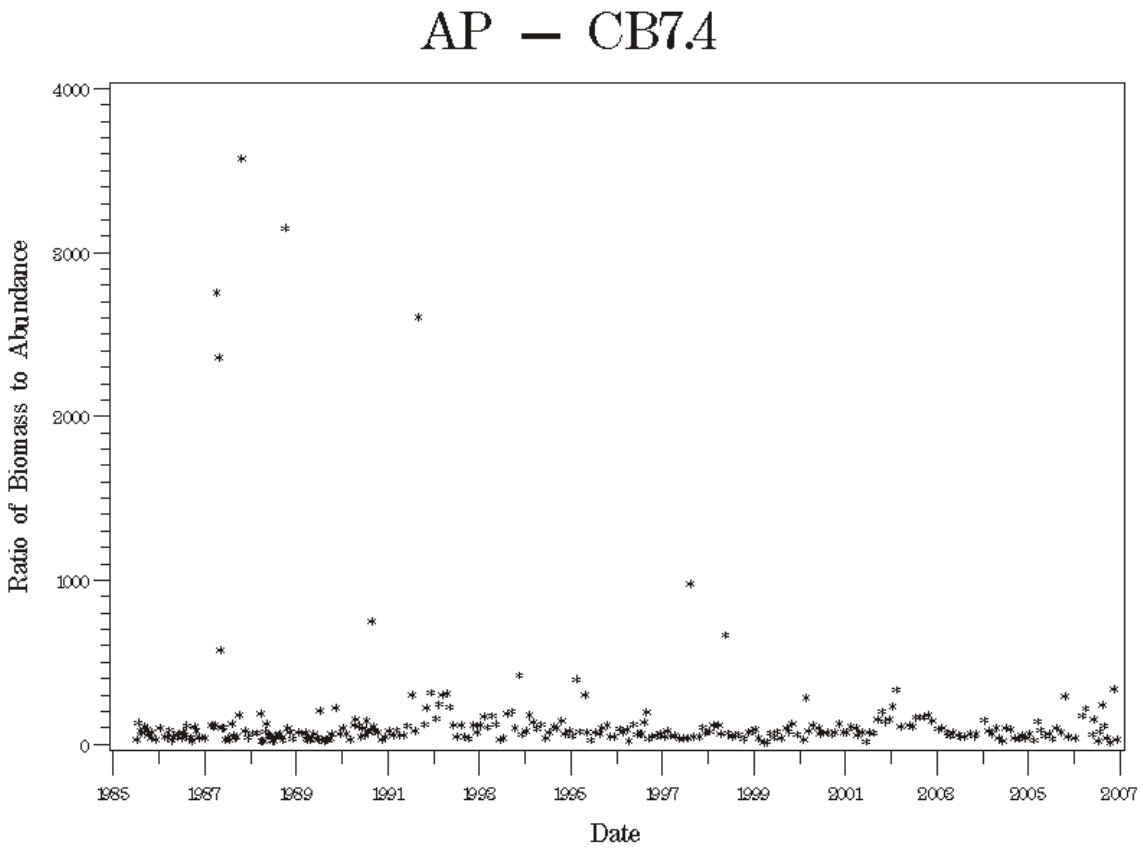


Figure F146. Plot of above pycnocline ratio of total phytoplankton biomass to total phytoplankton abundance against time at station CB7.4 for the period of 1985 through 2005.

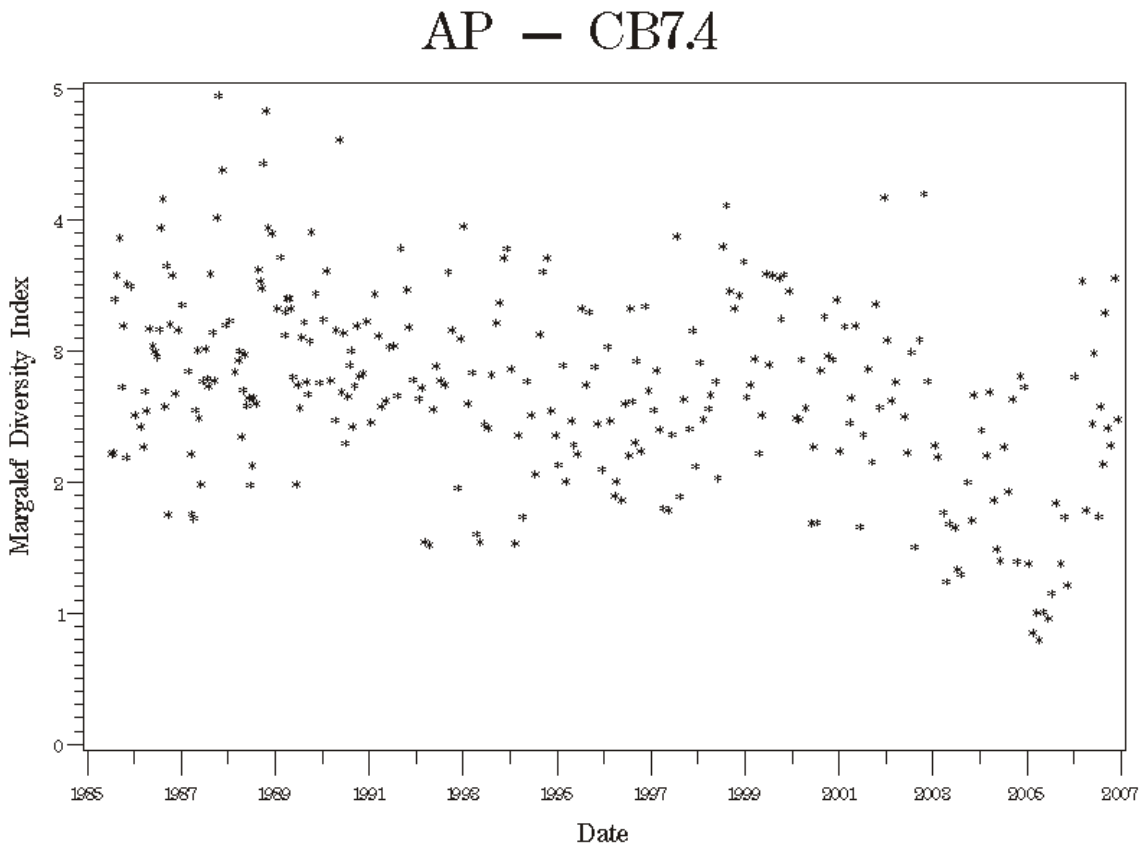


Figure F147. Plot of above pycnocline Margalef diversity index against time at station CB7.4 for the period of 1985 through 2005.

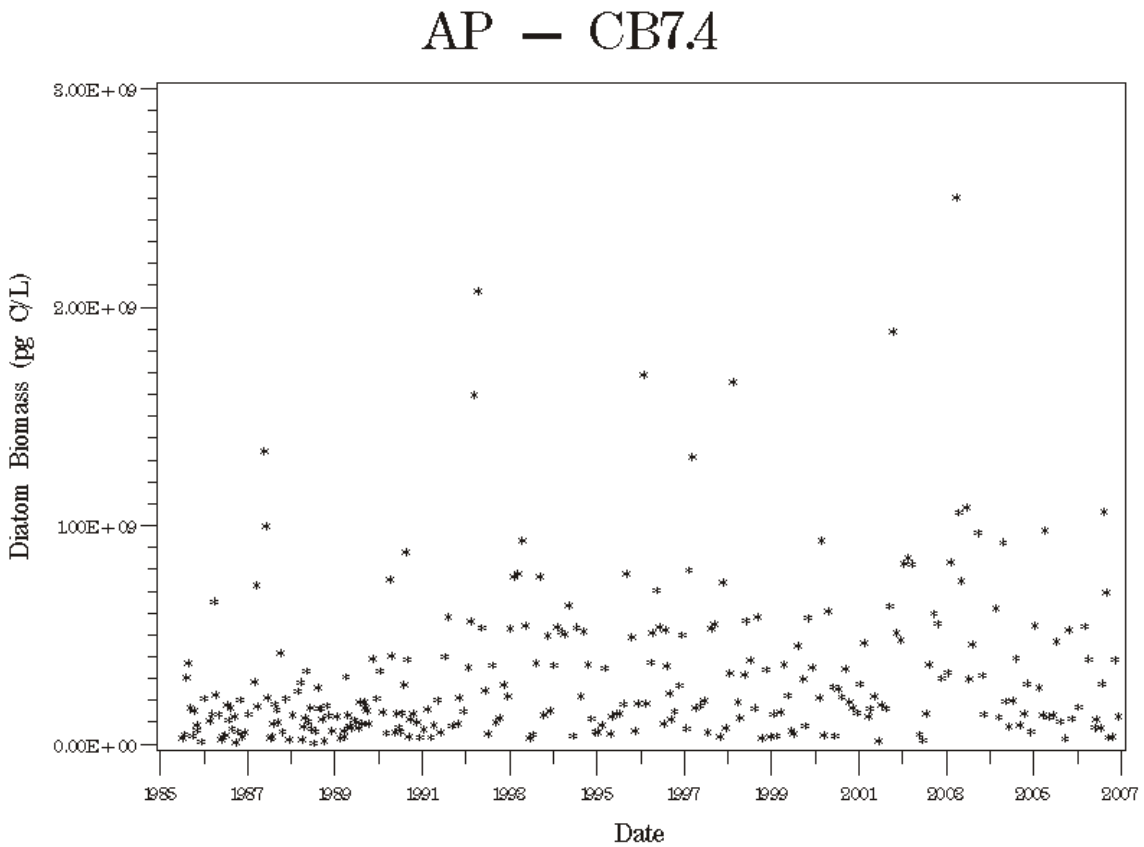


Figure F148. Plot of above pycnocline diatom biomass against time at station CB7.4 for the period of 1985 through 2005.

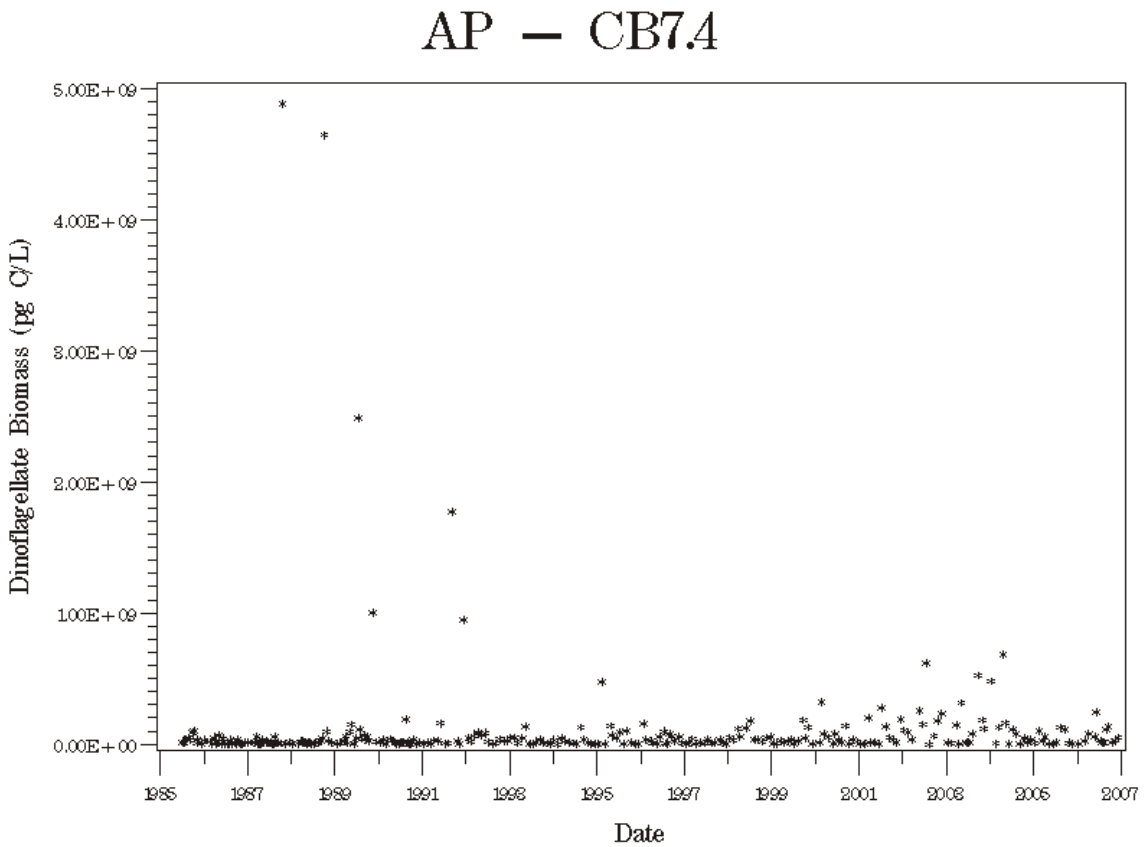


Figure F149. Plot of above pycnocline dinoflagellate biomass against time at station CB7.4 for the period of 1985 through 2005.

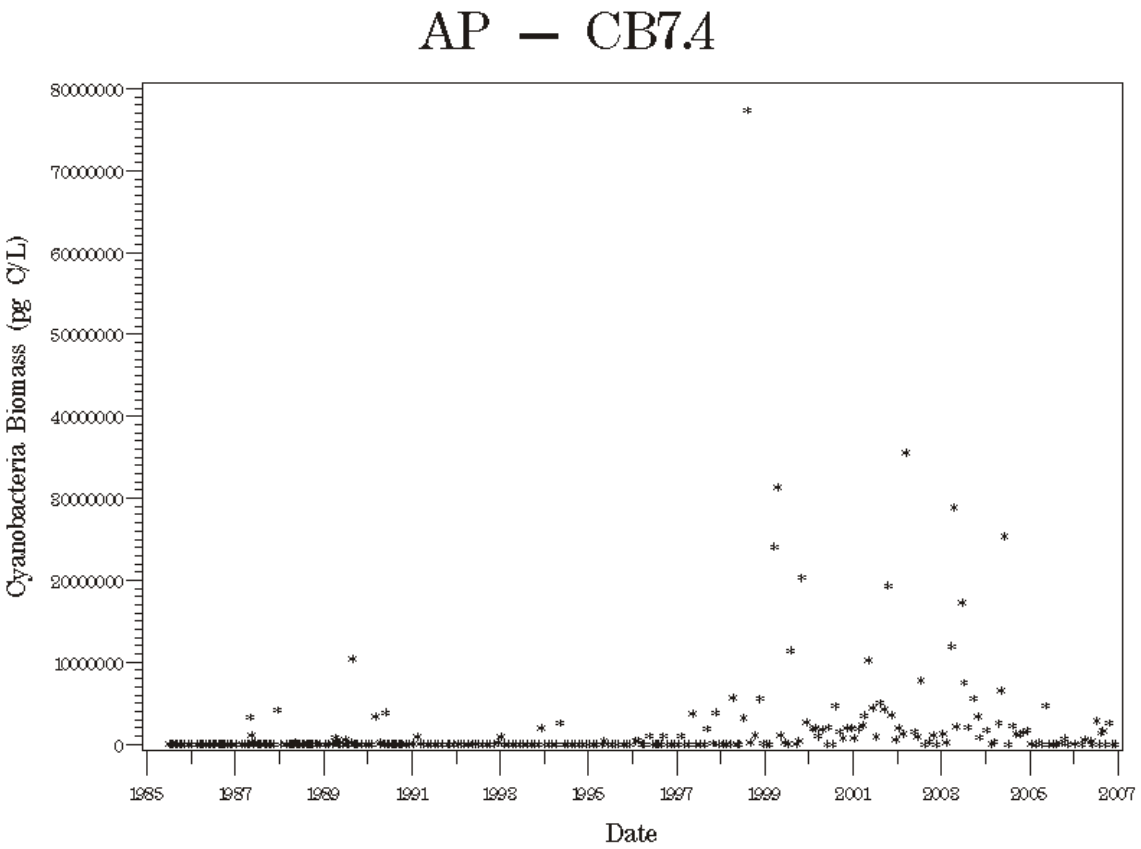


Figure F150. Plot of above pycnocline cyanobacteria biomass against time at station CB7.4 for the period of 1985 through 2005.

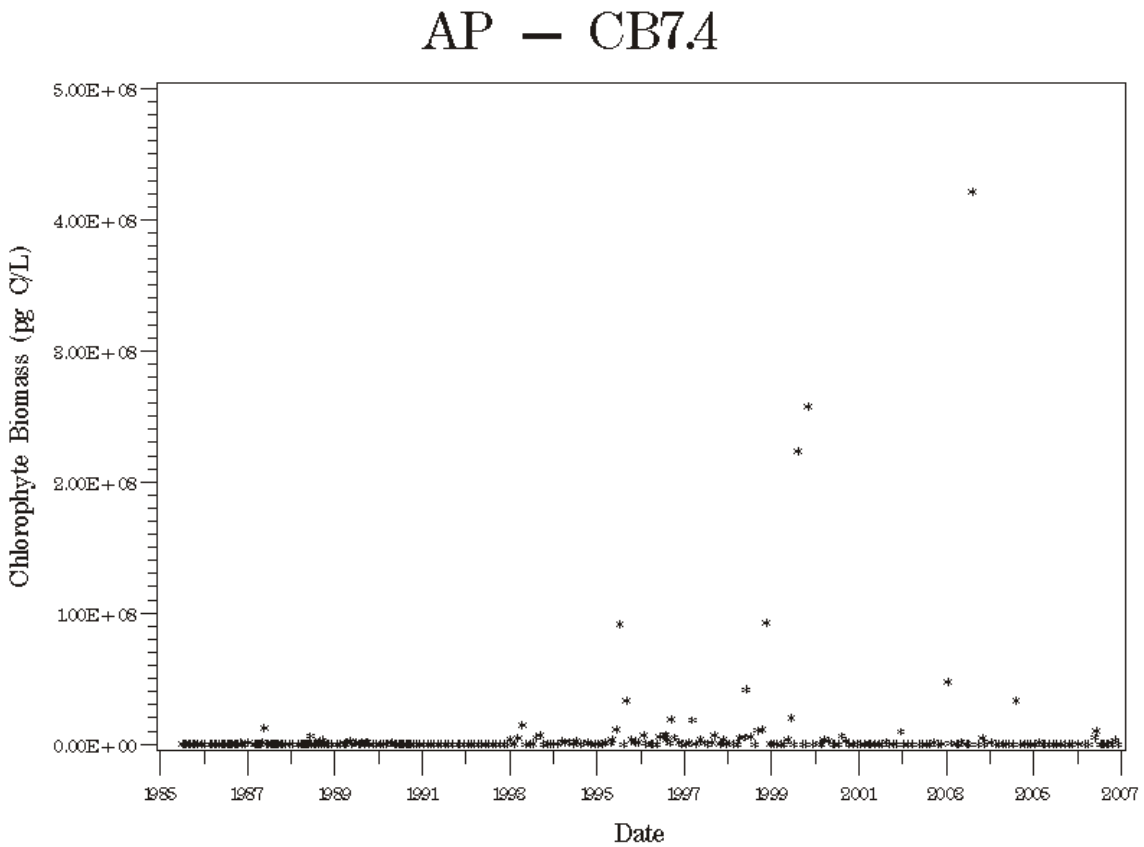


Figure F151. Plot of above pycnocline chlorophyte biomass against time at station CB7.4 for the period of 1985 through 2005.

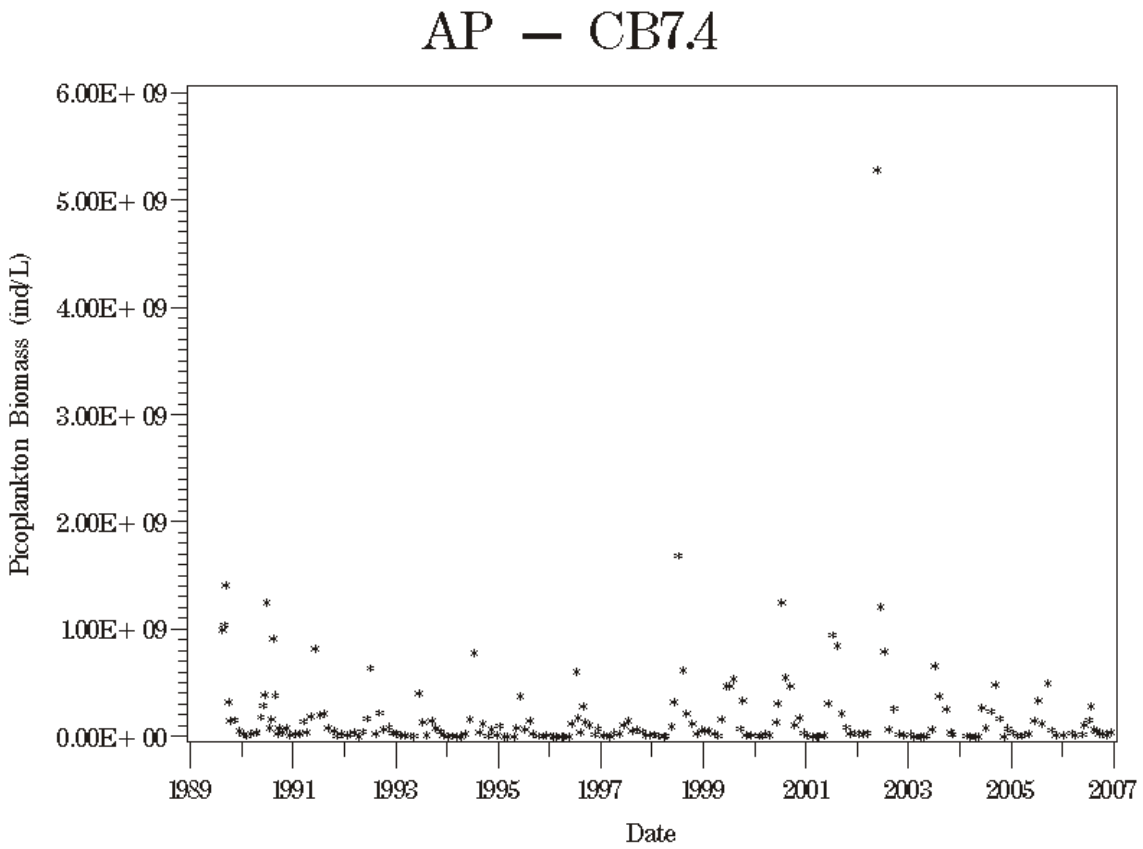


Figure F152. Plot of above pycnocline picoplankton biomass against time at station CB7.4 for the period of 1985 through 2005.

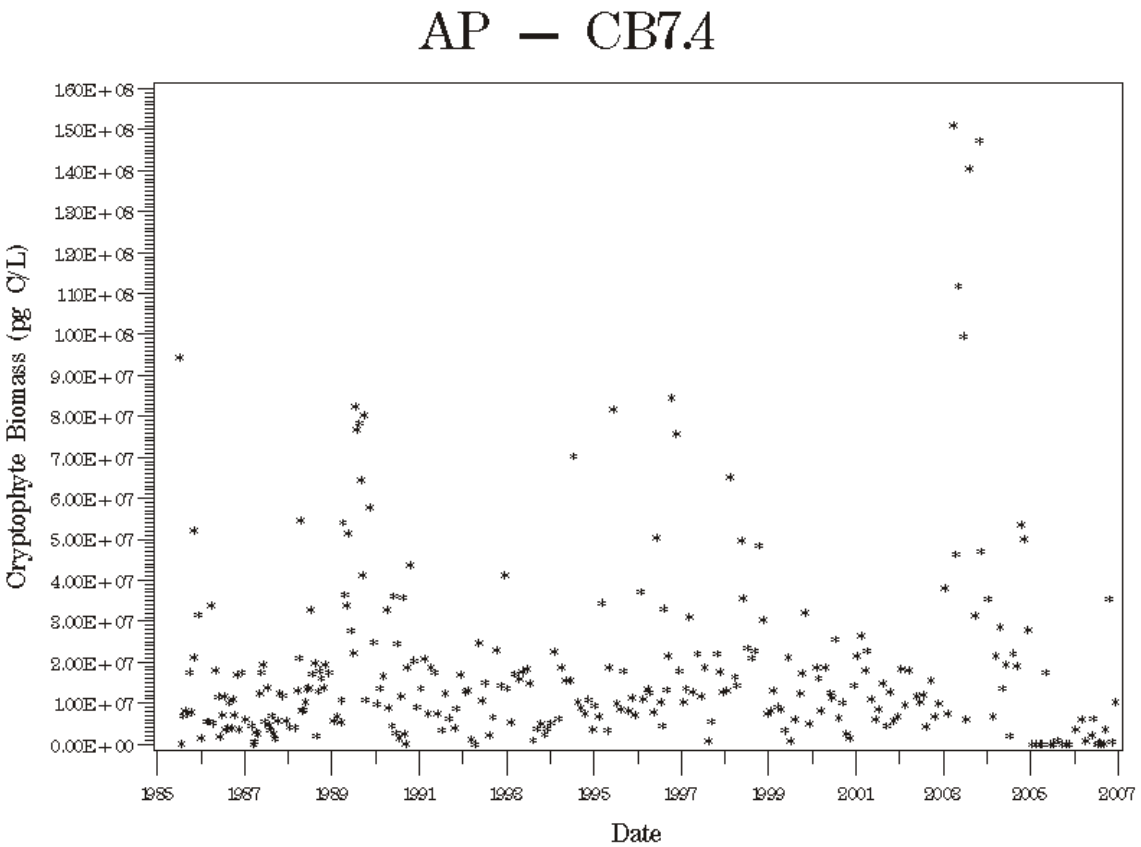


Figure F153. Plot of above pycnocline cryptophyte biomass at station CB7.4 for the period of 1985 through 2005.

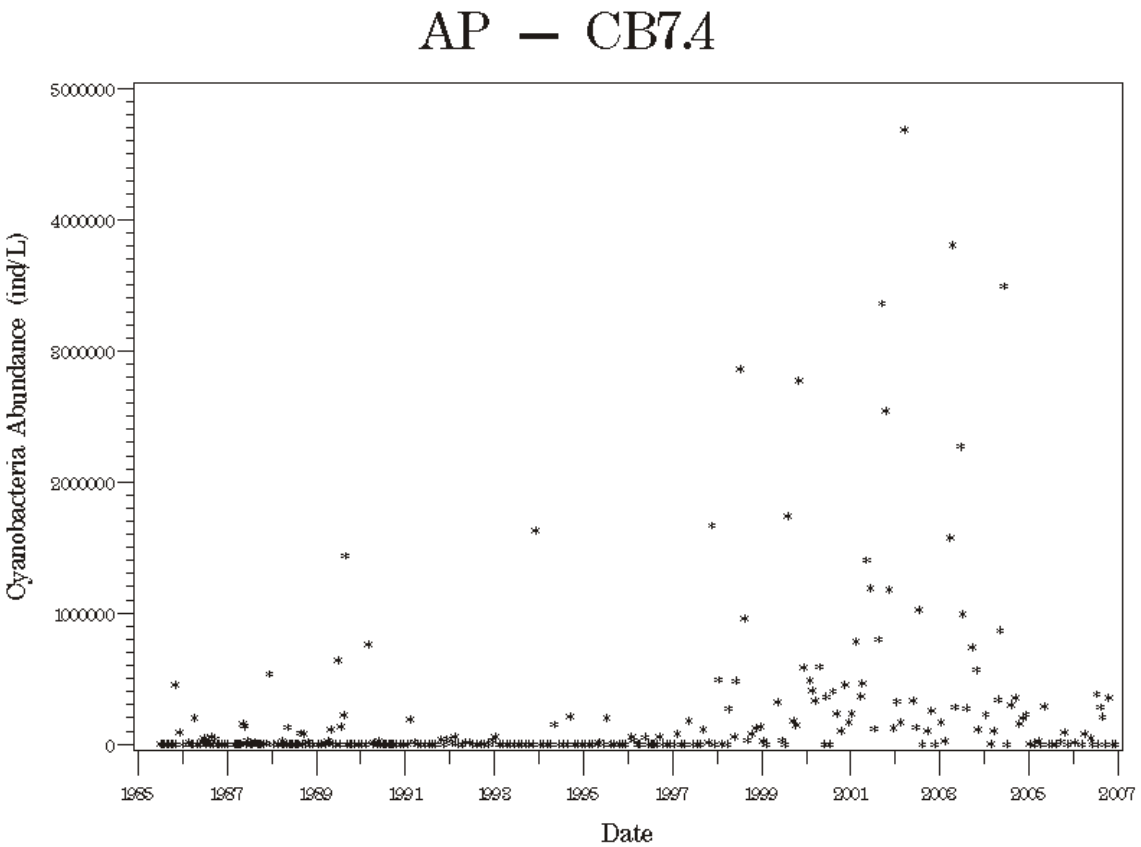


Figure F154. Plot of above pycnocline cyanophyte abundance at station CB7.4 for the period of 1985 through 2005.