

Appendix B - Section I. James River Water Quality Scatterplots

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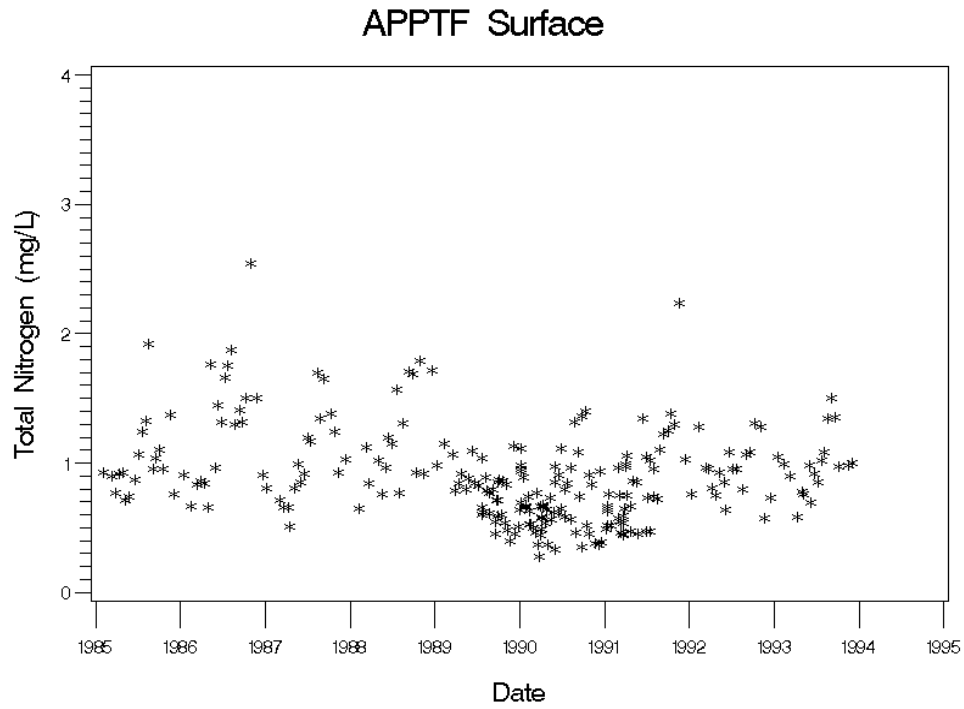
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a) Pre-method change period



b) Post-method change period

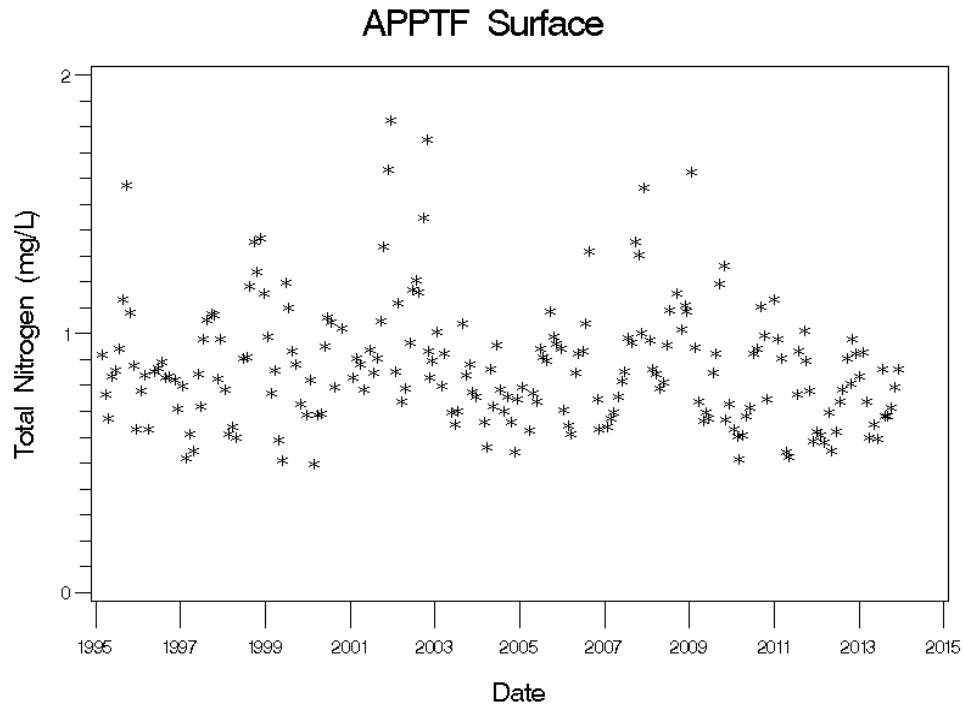
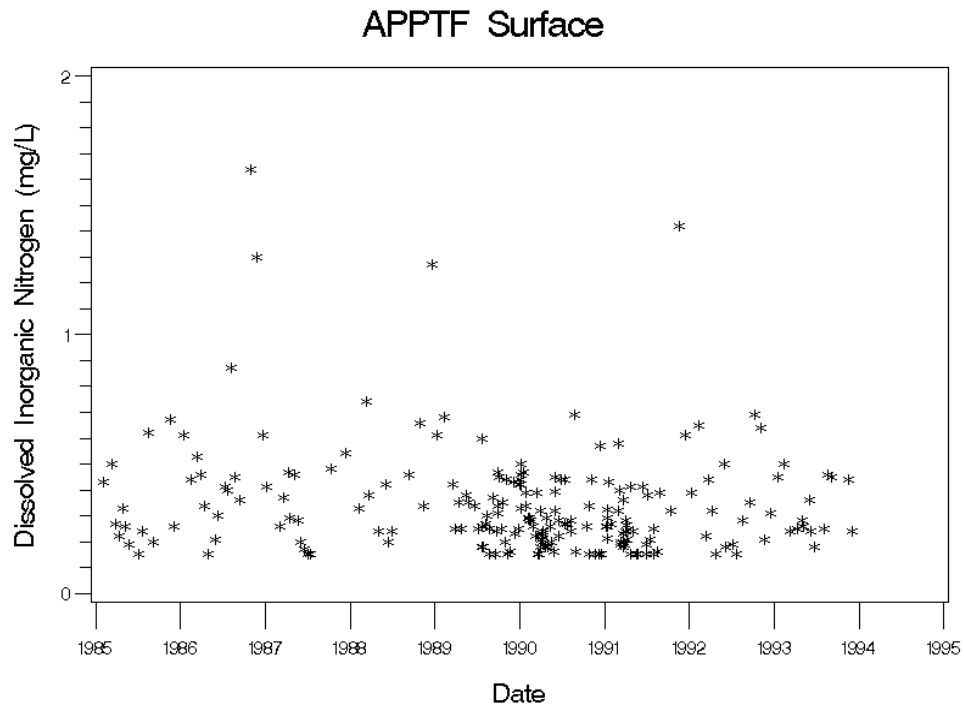


Figure 1. Scatterplots of surface total nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

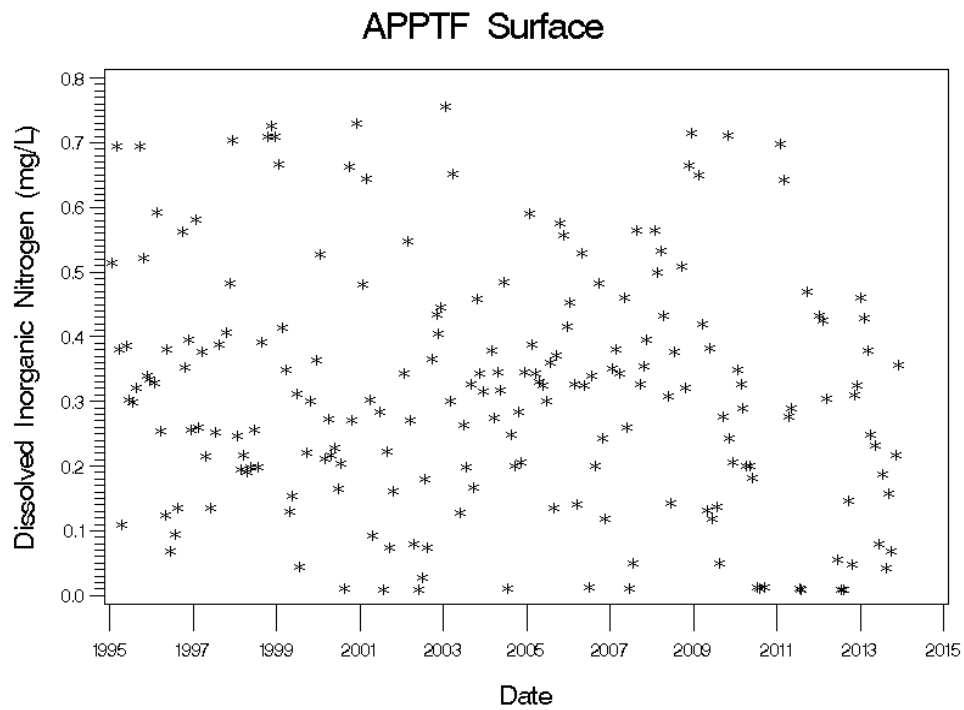
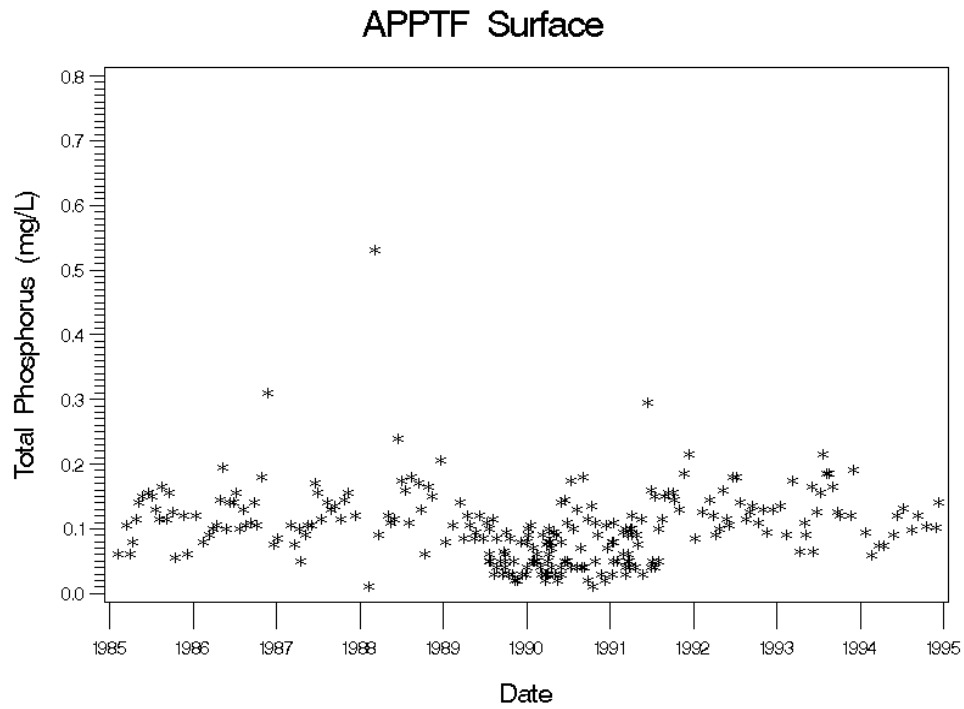


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

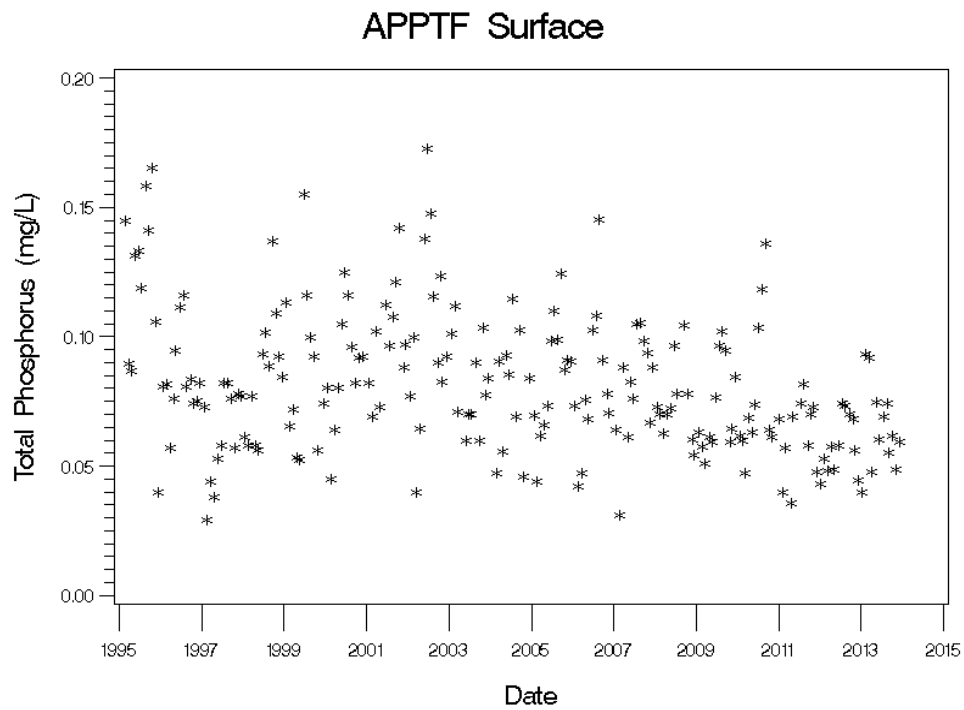
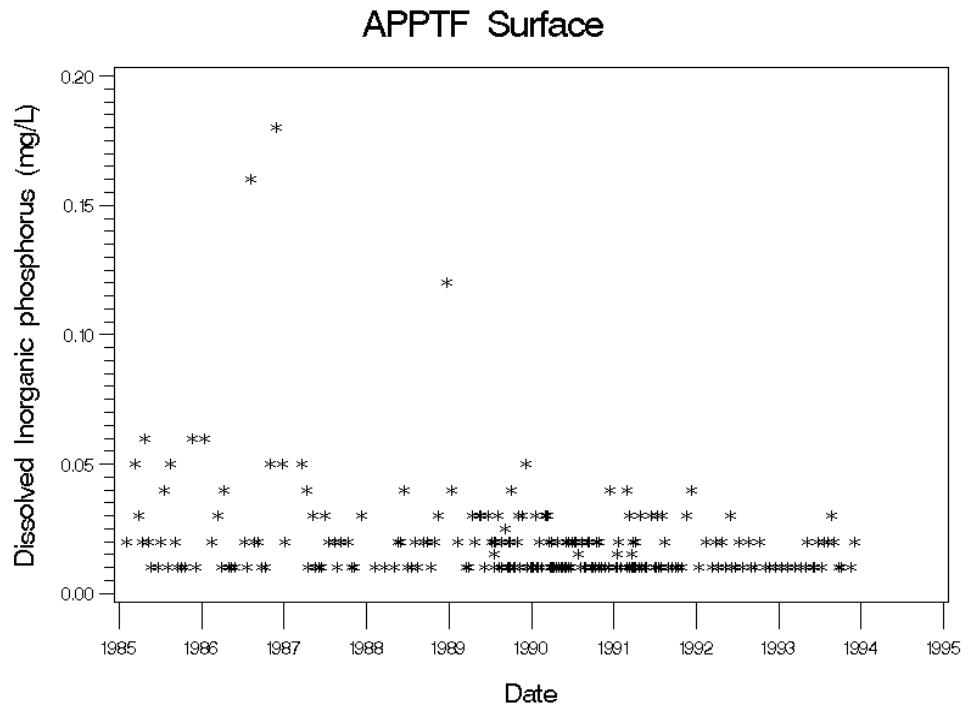


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a) Pre-method change period



b) Post-method change period

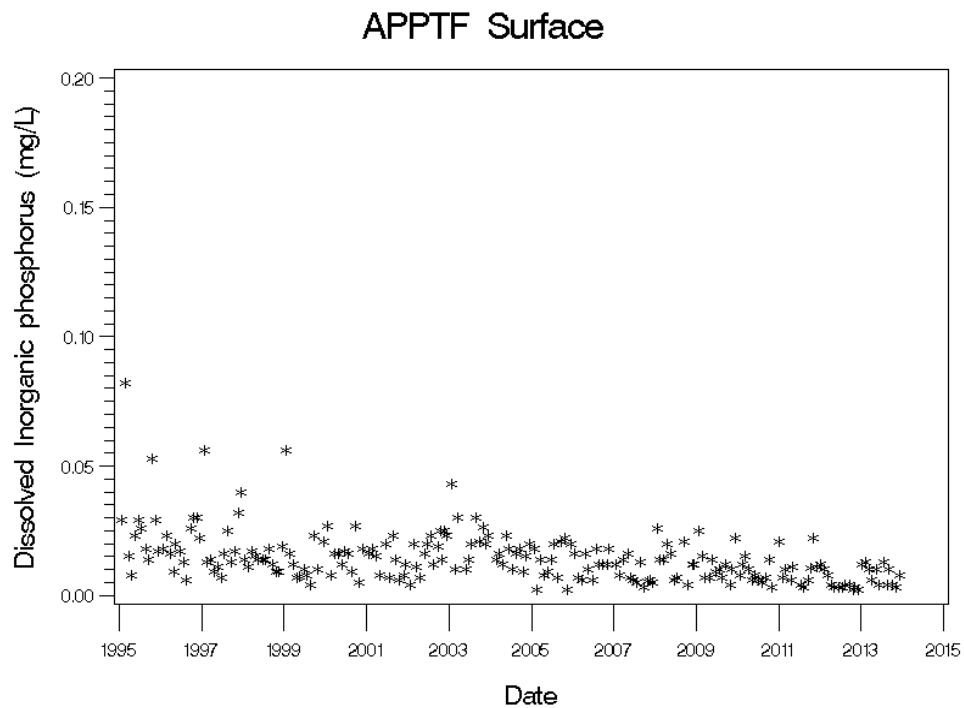


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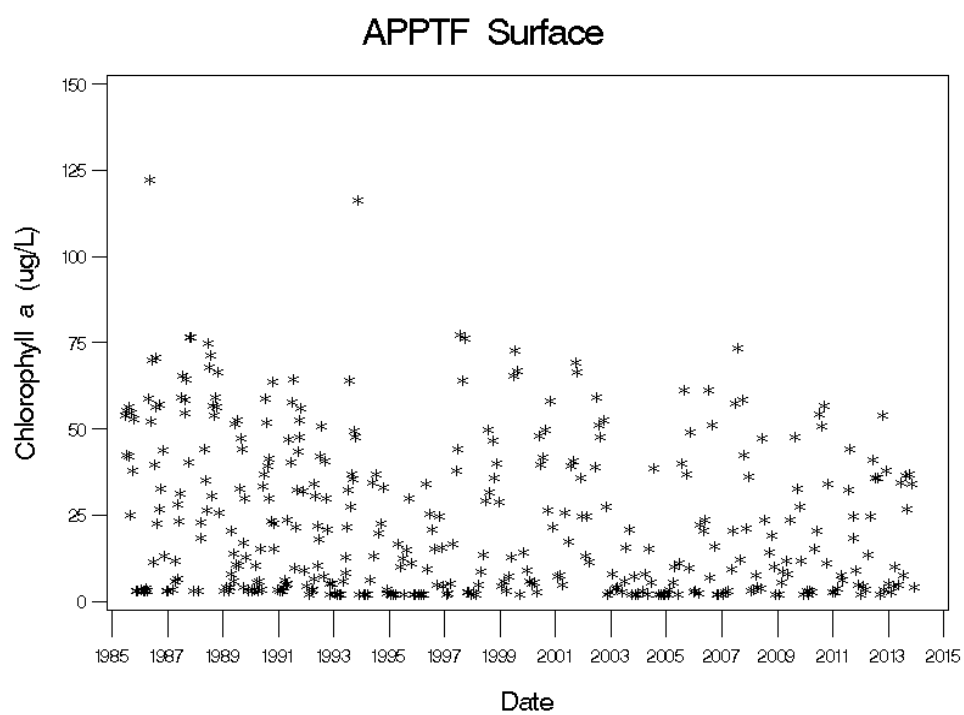


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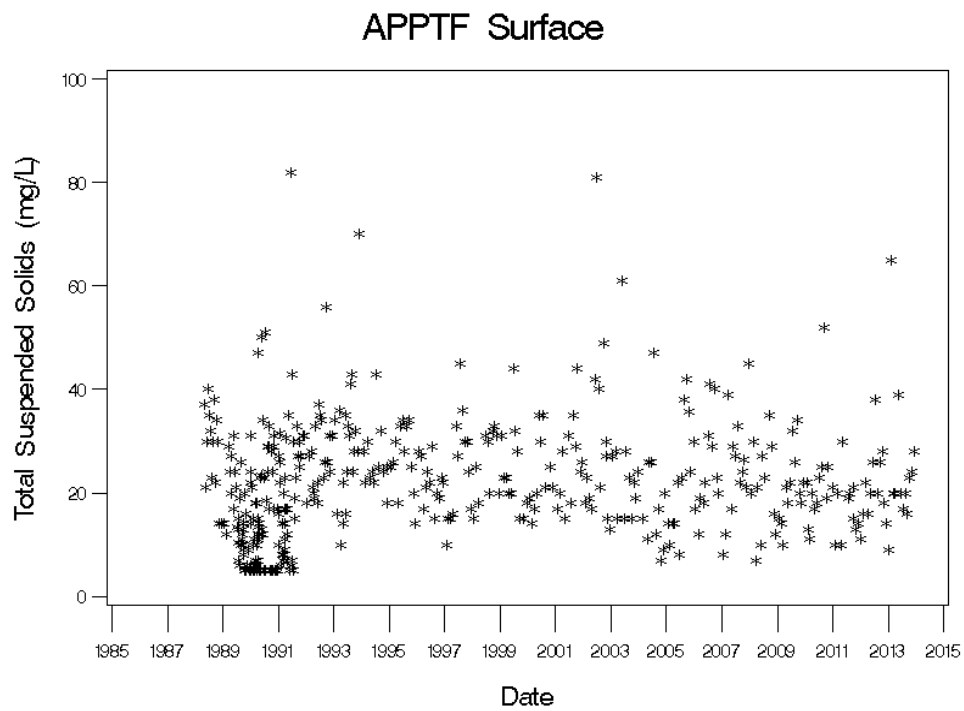


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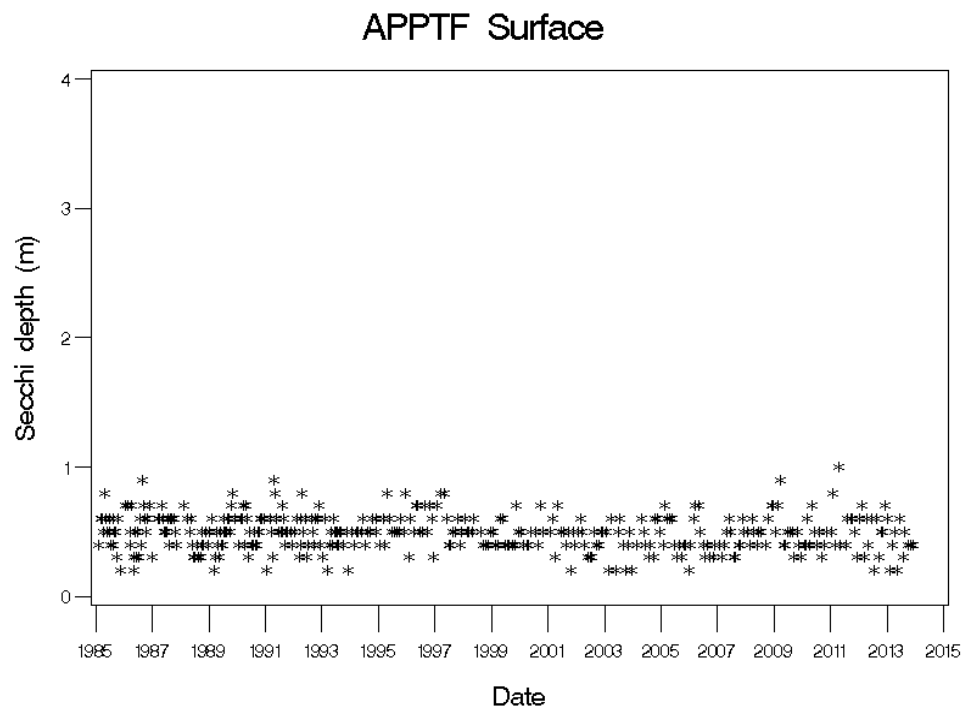


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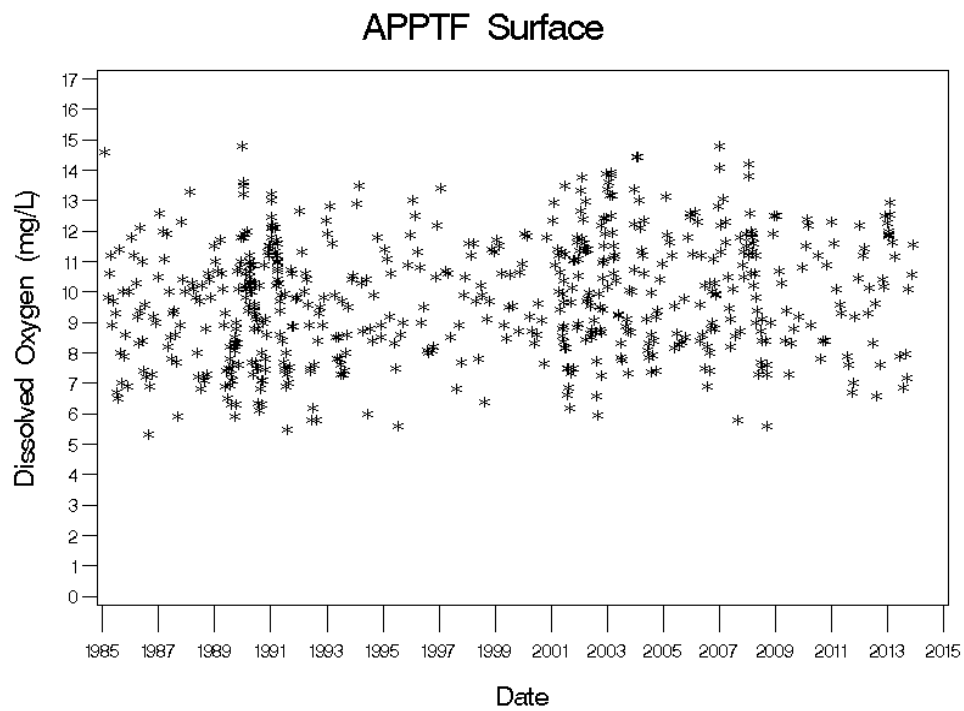


Figure 8. Scatterplot of surface dissolved oxygen at segment APPTF during the period 1985 to 2013.

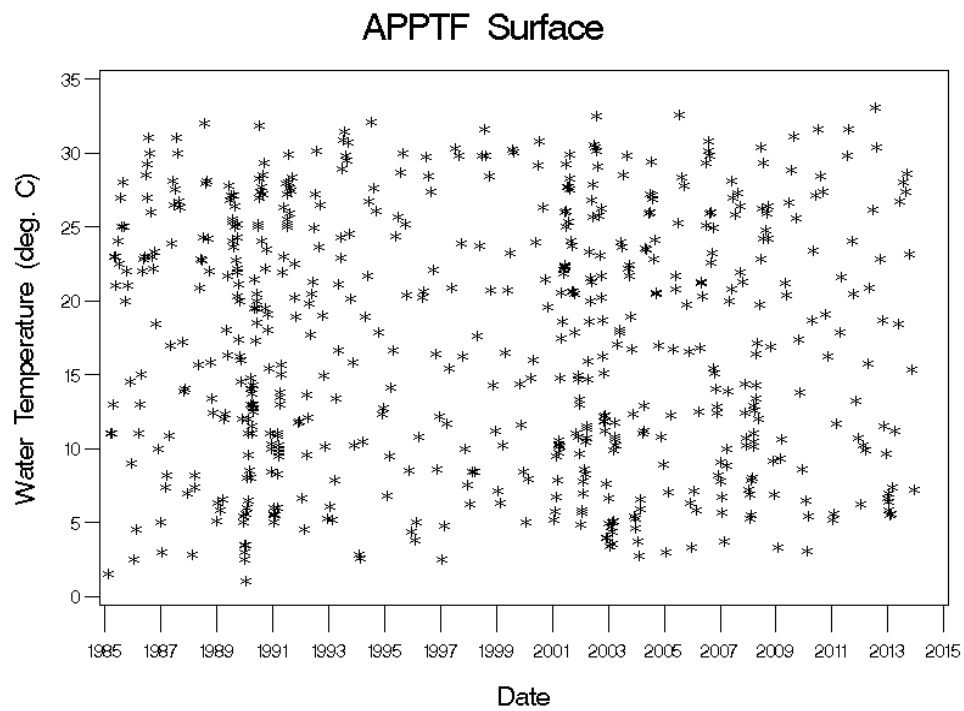


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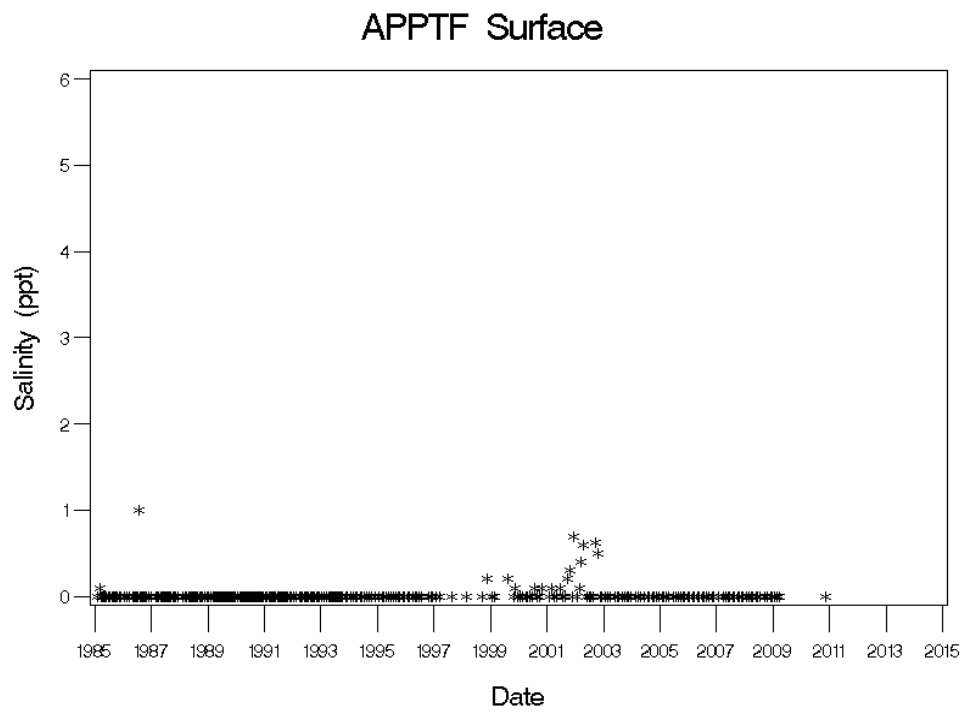


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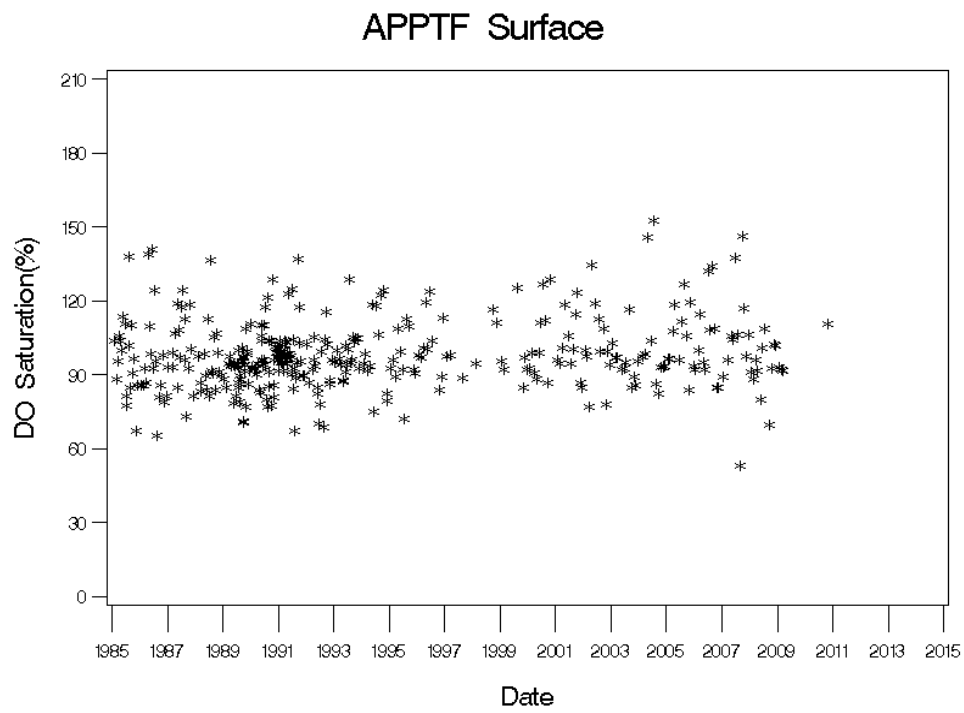
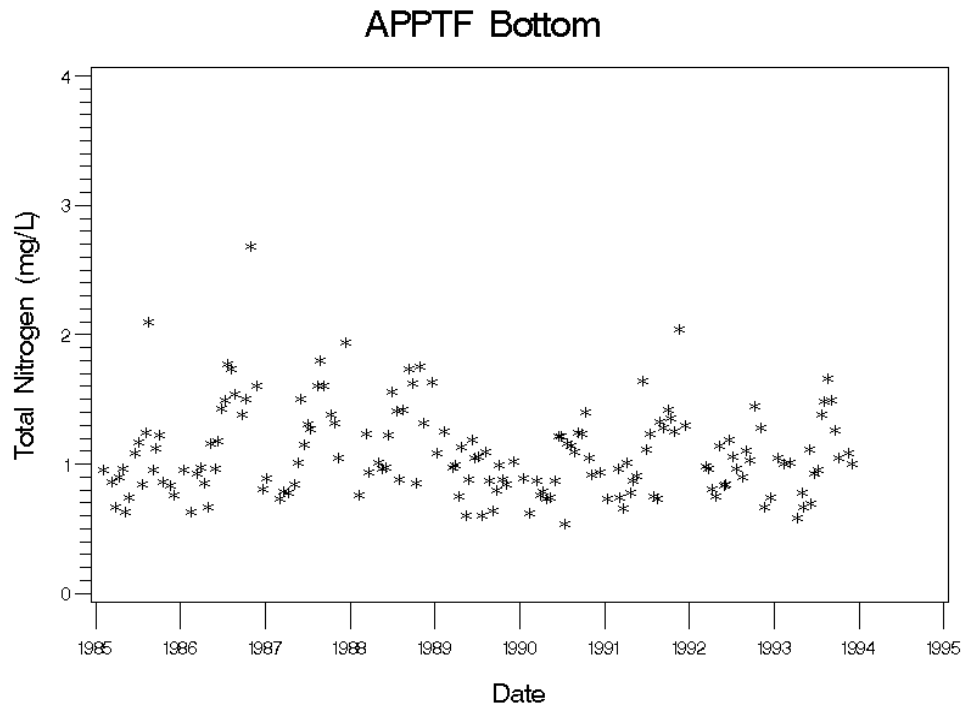


Figure 11. Scatterplot of surface DO saturation at segment APPTF during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

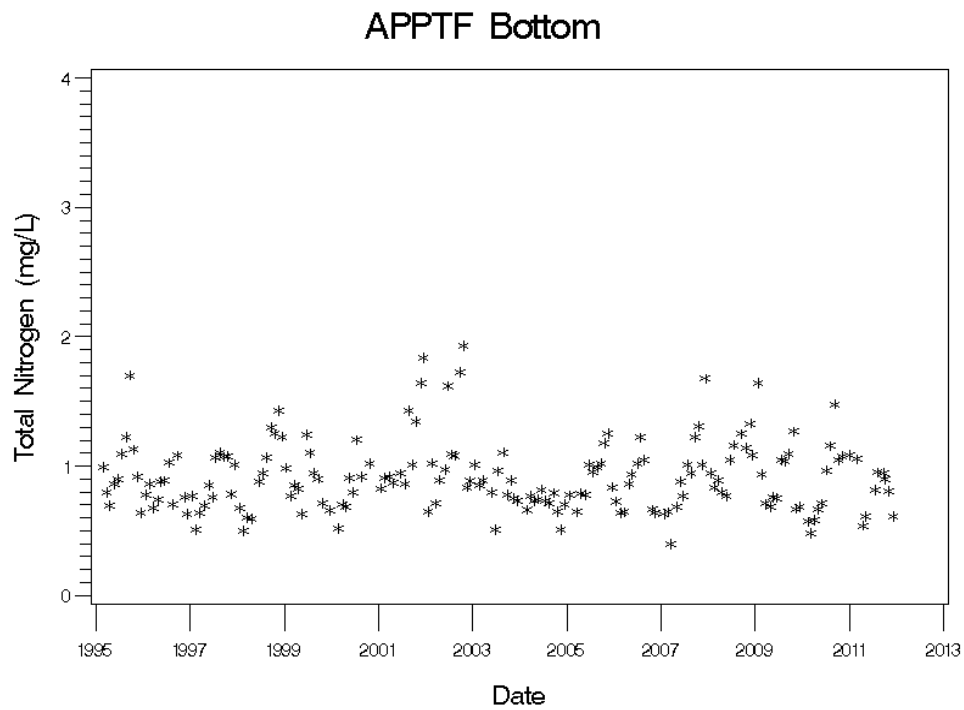
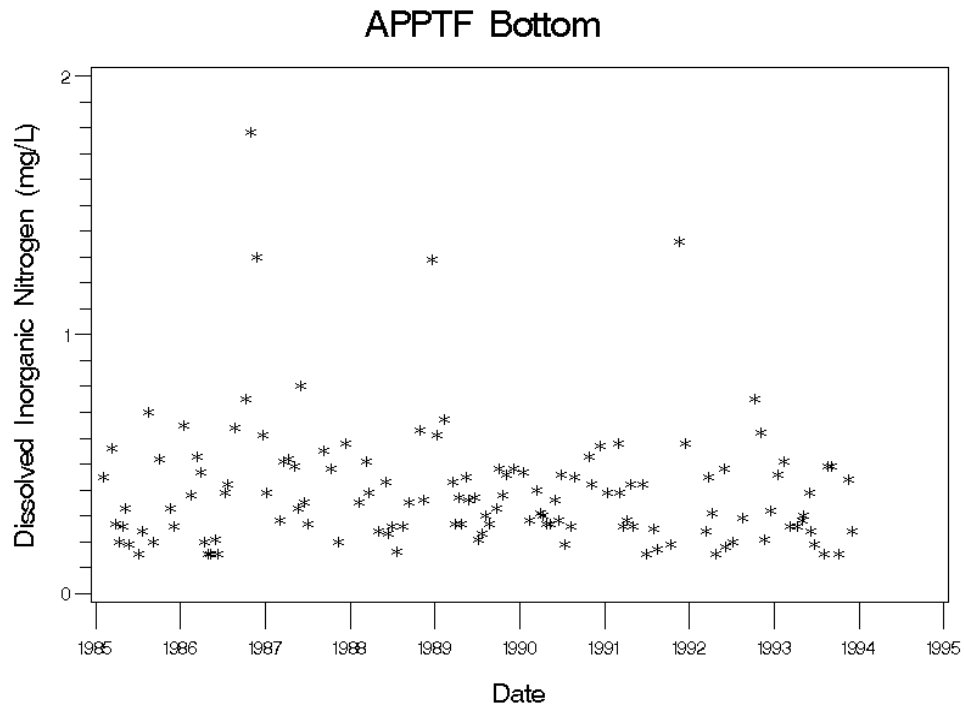


Figure 12. Scatterplots of bottom total nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

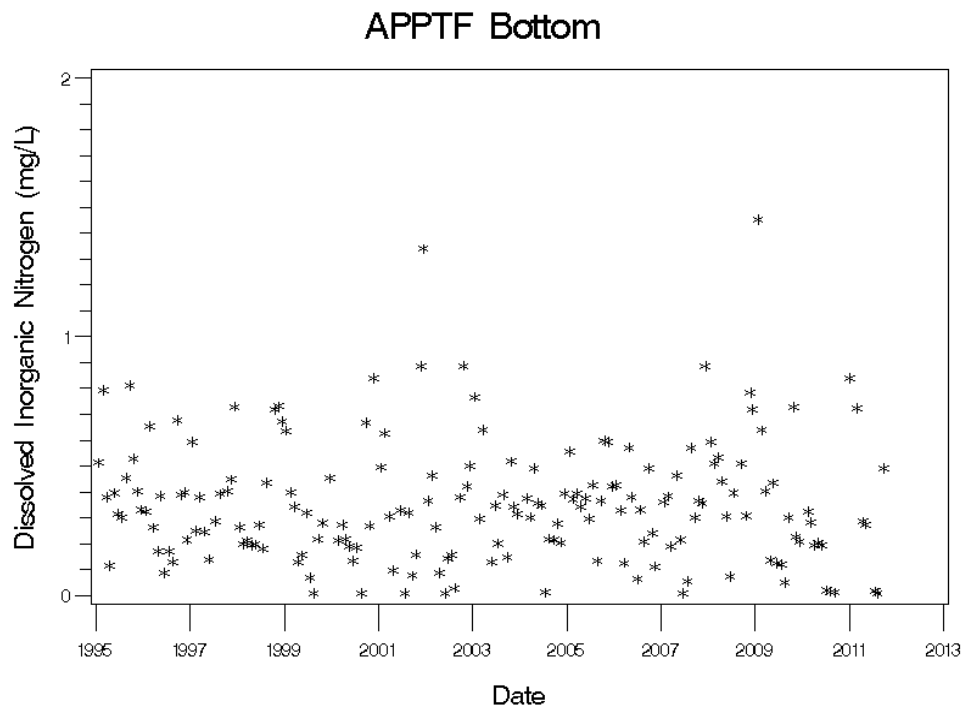
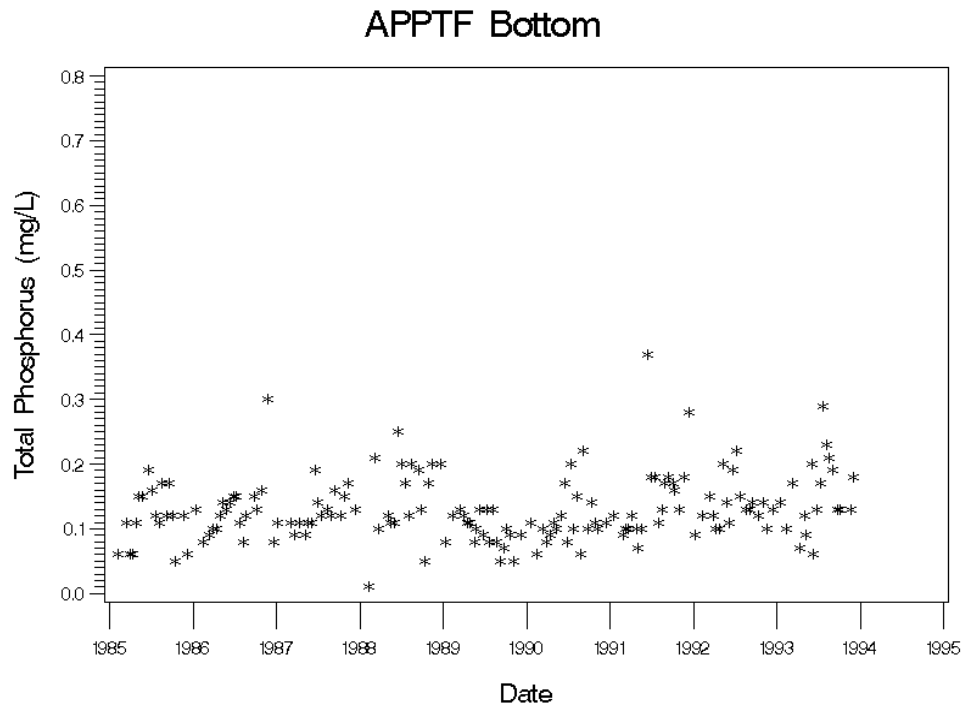


Figure 13. Scatterplots of bottom dissolved inorganic nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

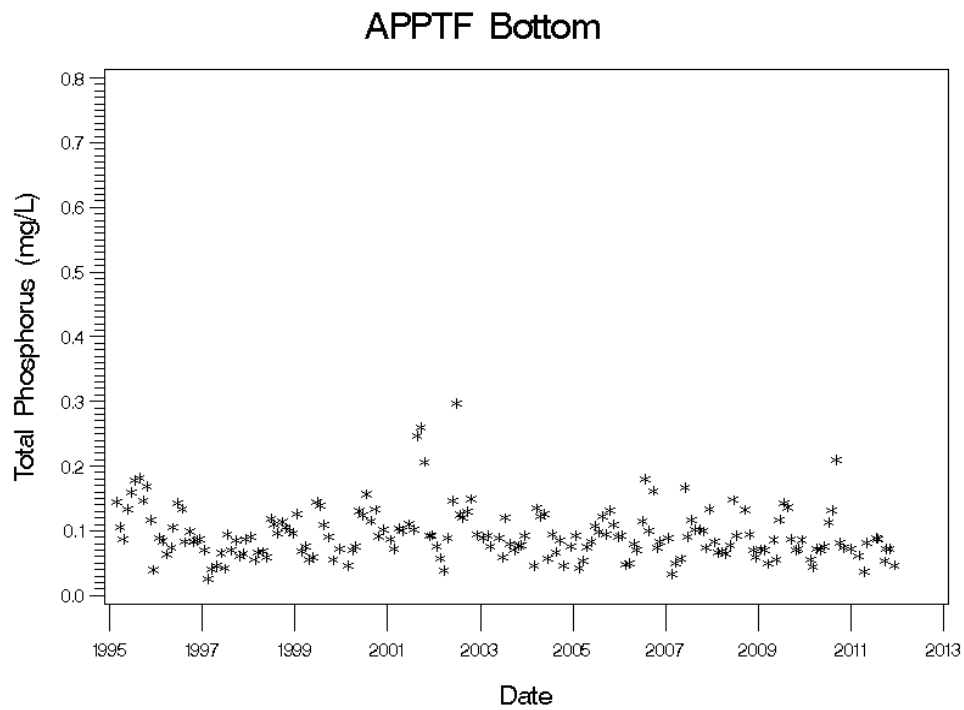
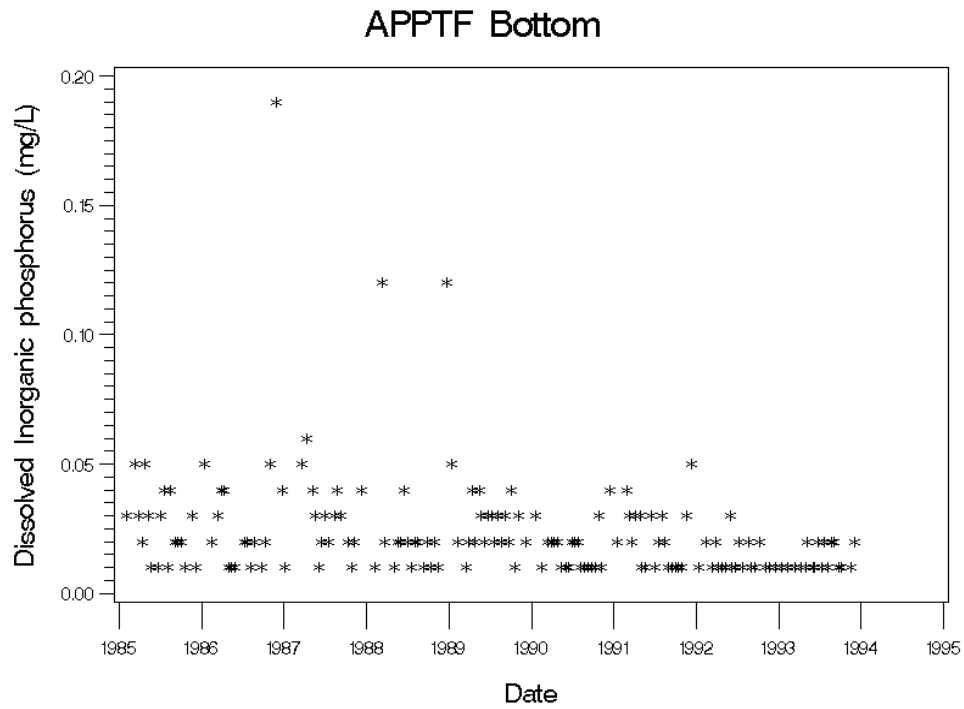


Figure 14. Scatterplots of bottom total phosphorus at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

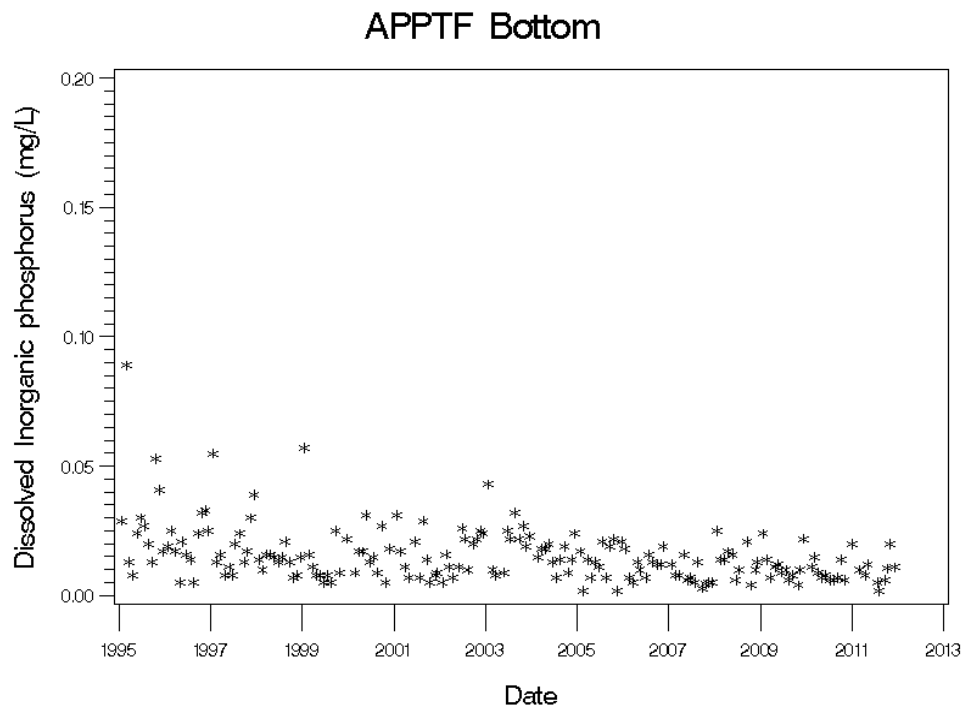


Figure 15. Scatterplots of bottom dissolved inorganic phosphorus at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

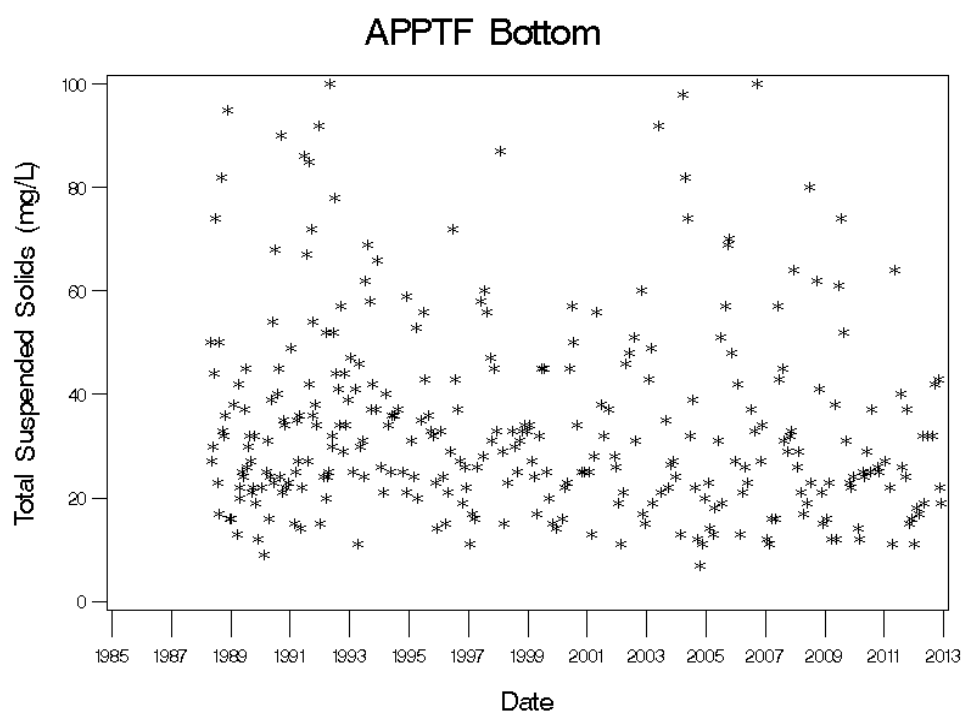


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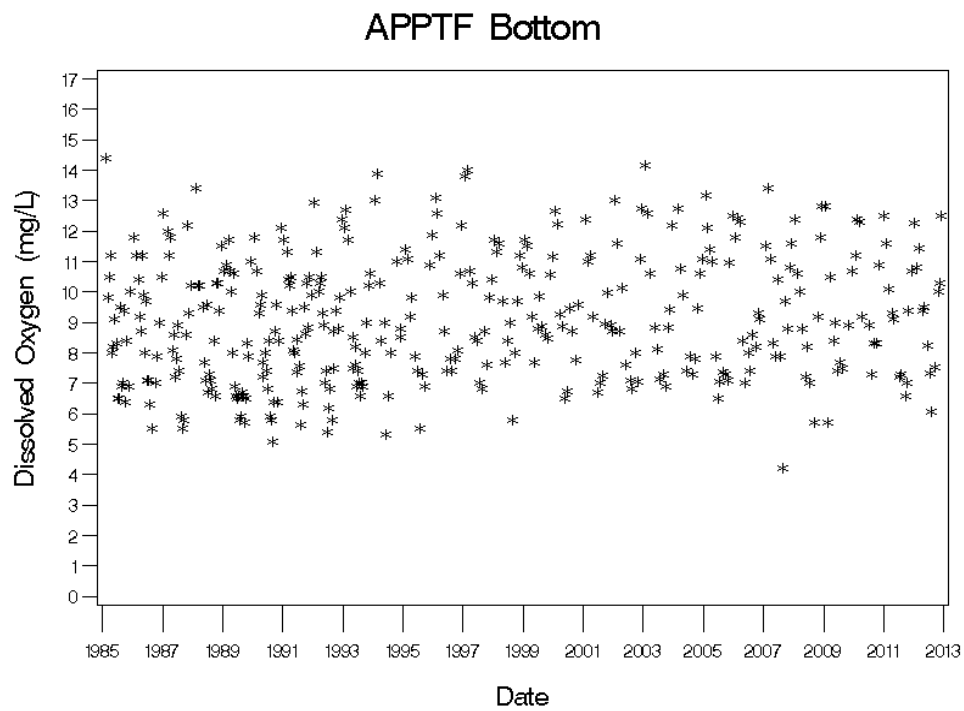


Figure 17. Scatterplot of bottom dissolved oxygen at segment APPTF during the period 1985 to 2013.

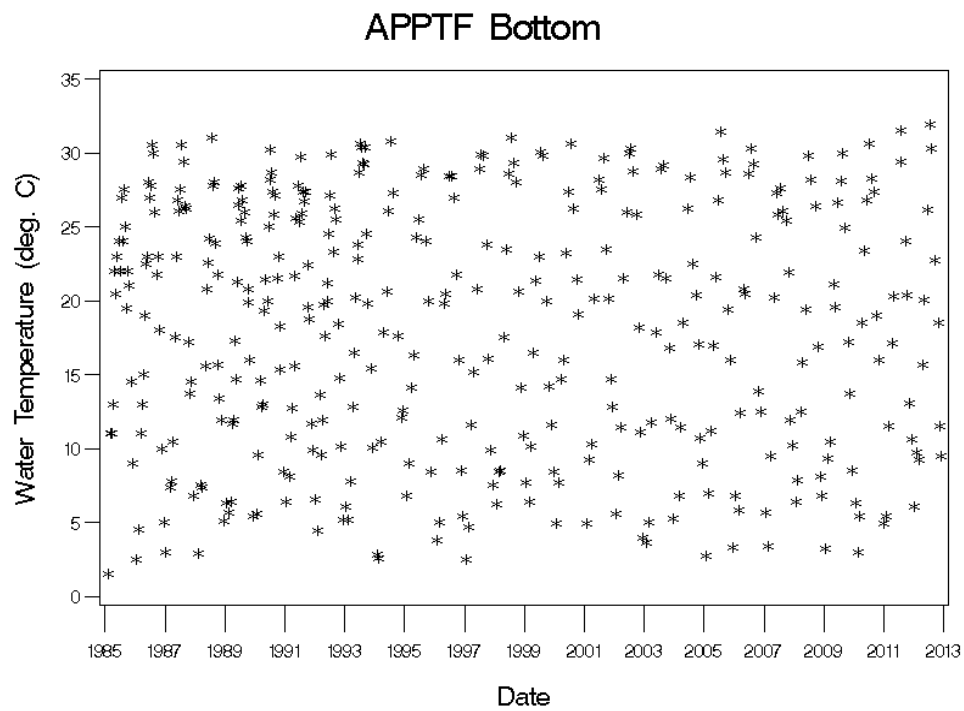


Figure 18. Scatterplot of bottom water temperature at segment APPTF during the period 1985 to 2013.

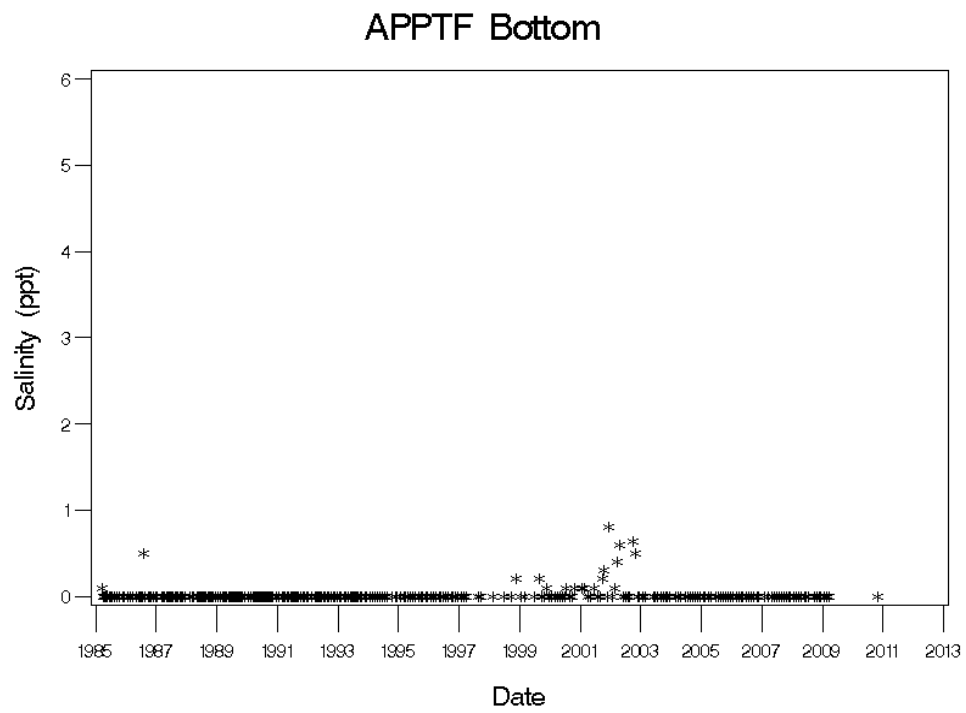


Figure 19. Scatterplot of bottom salinity at segment APPTF during the period 1985 to 2013.

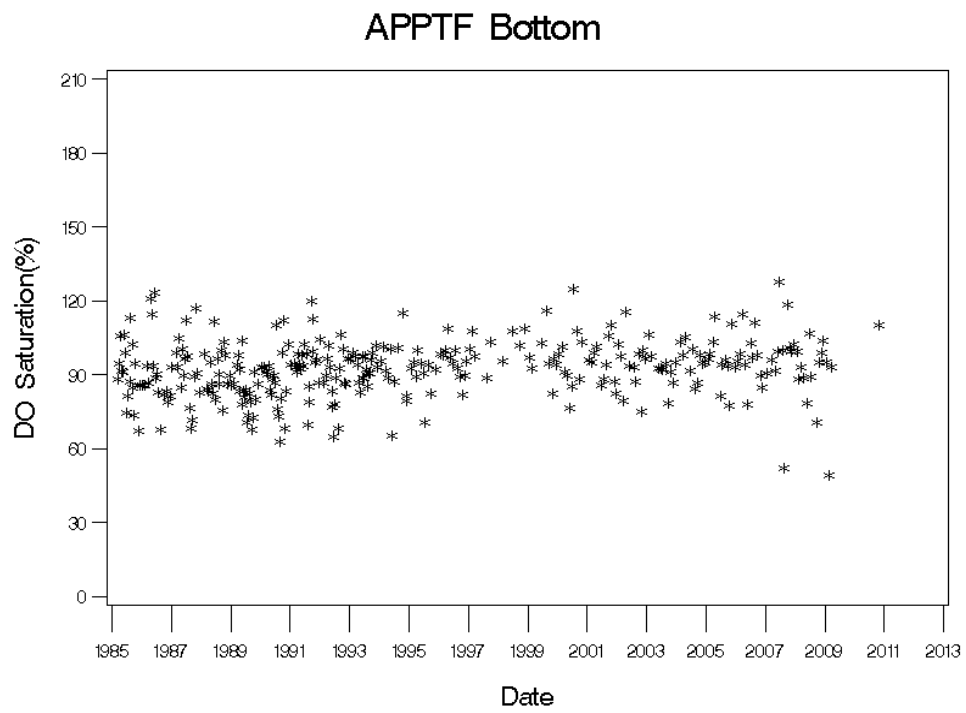
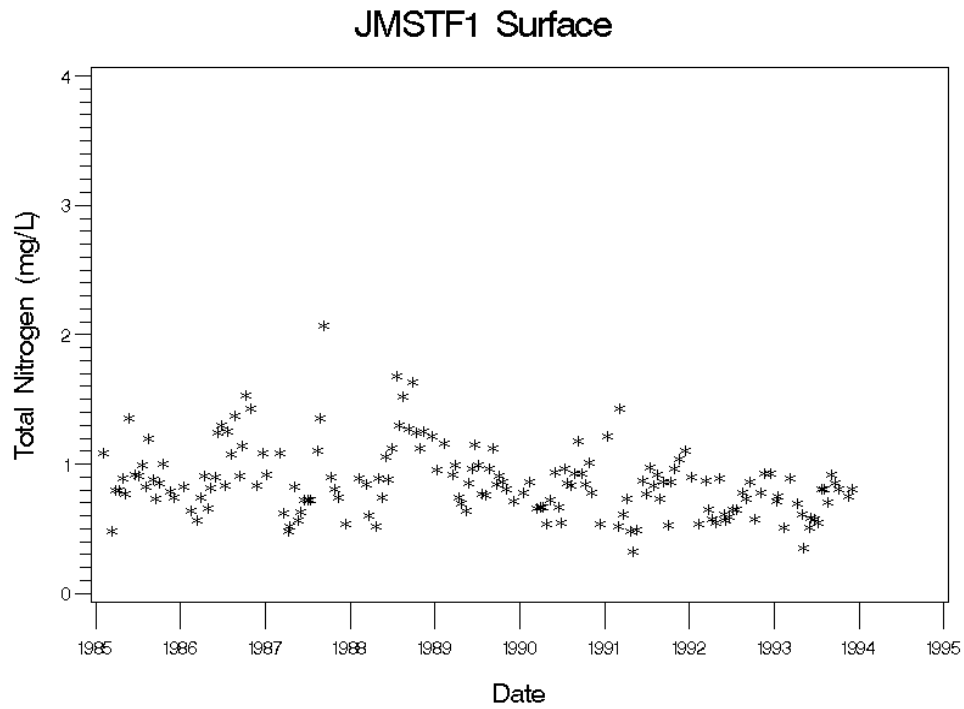


Figure 20. Scatterplot of bottom DO saturation at segment APPTF during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

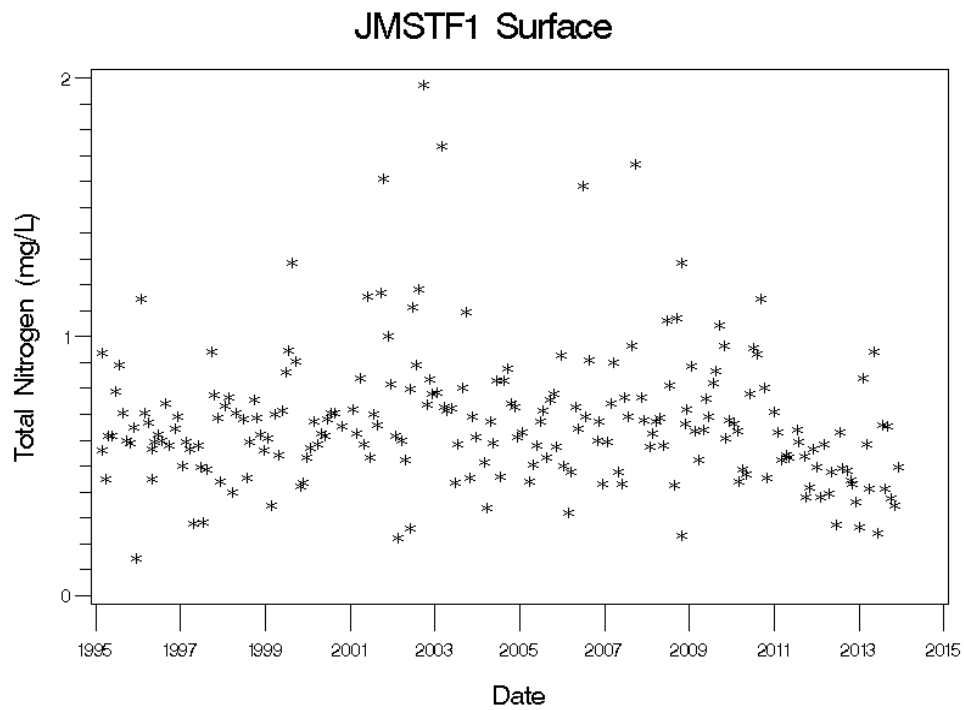
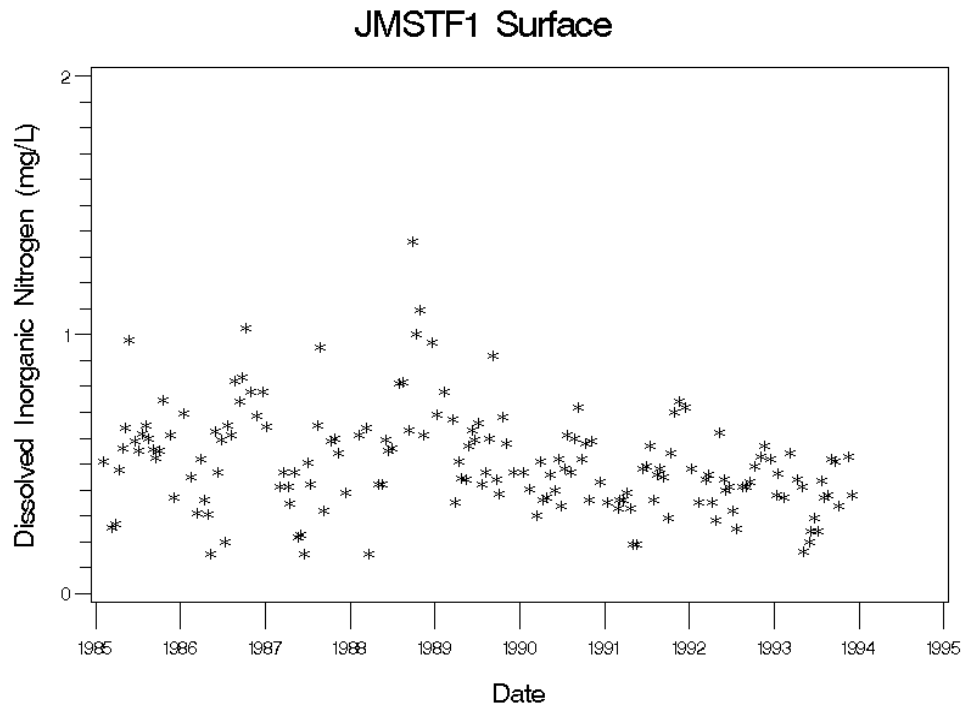


Figure 21. Scatterplots of surface total nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

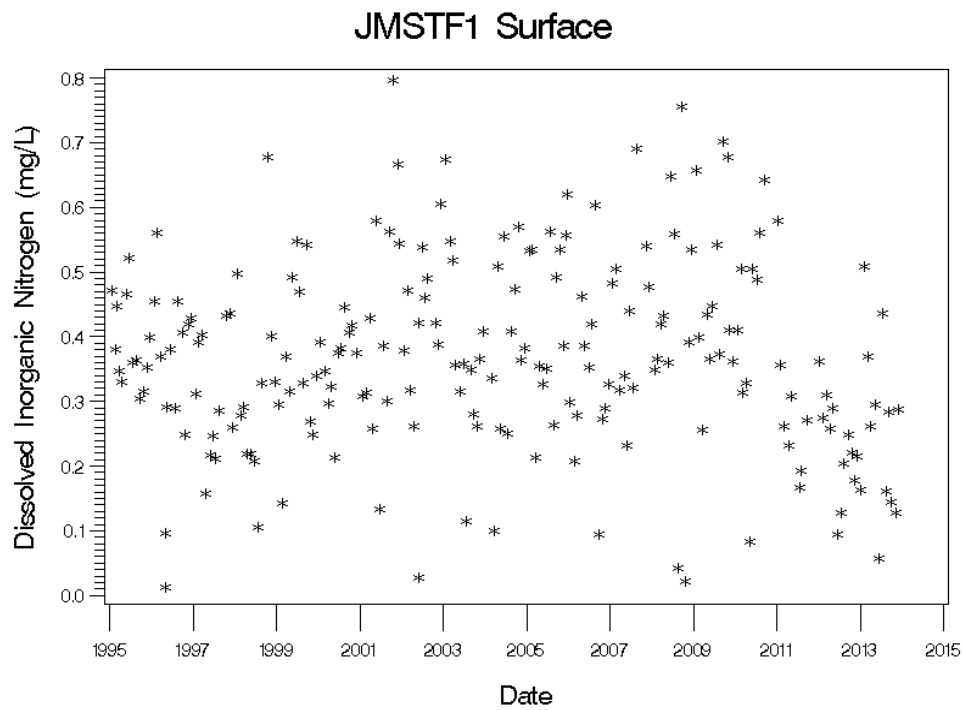
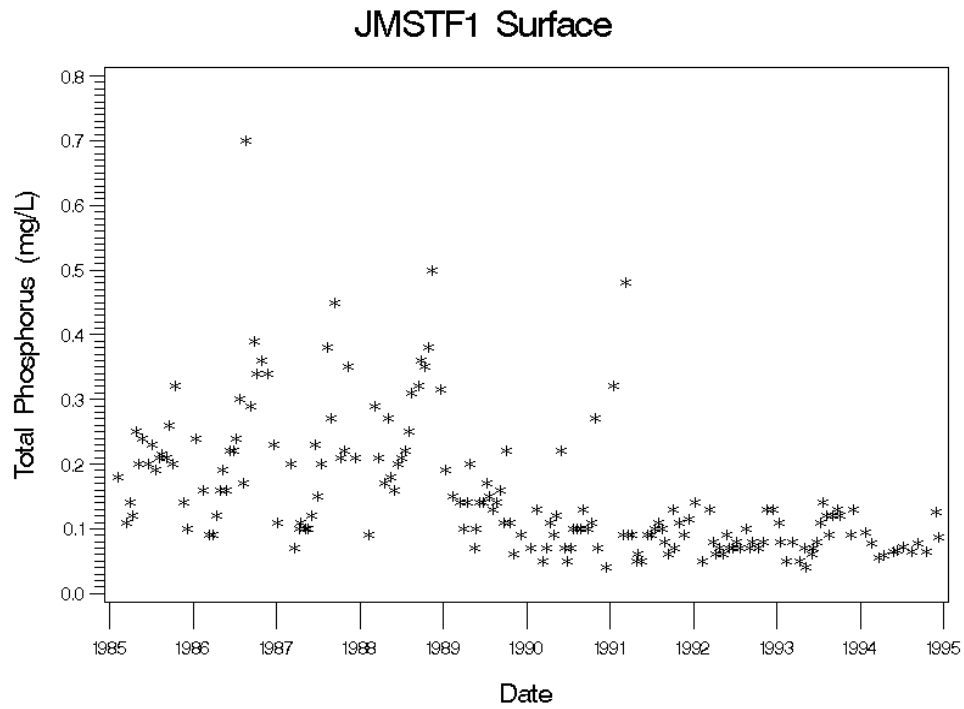


Figure 22. Scatterplots of surface dissolved inorganic nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

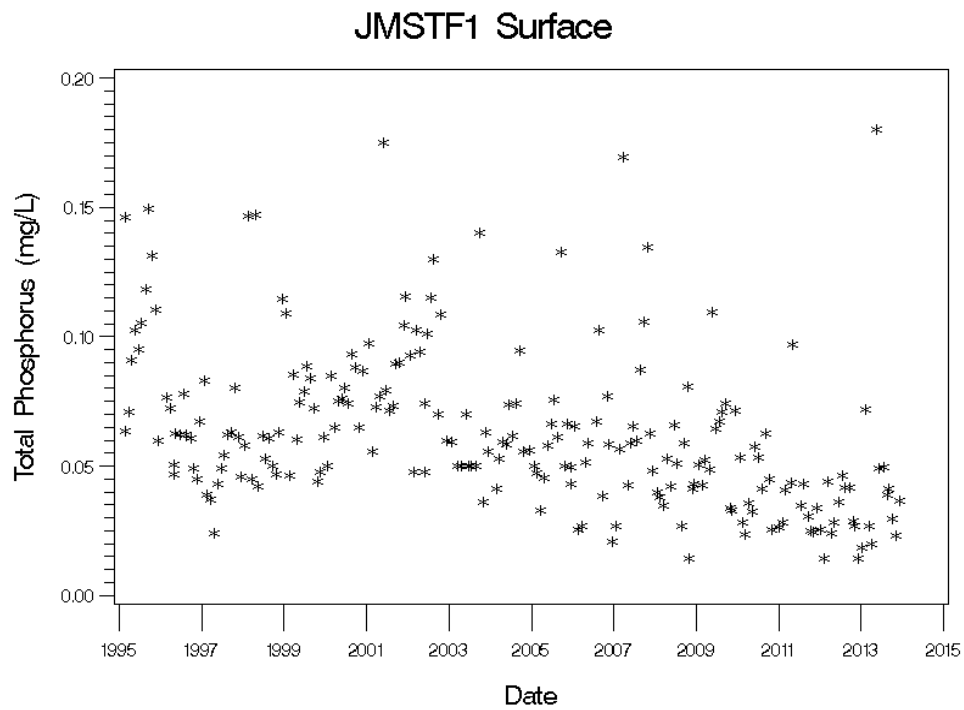
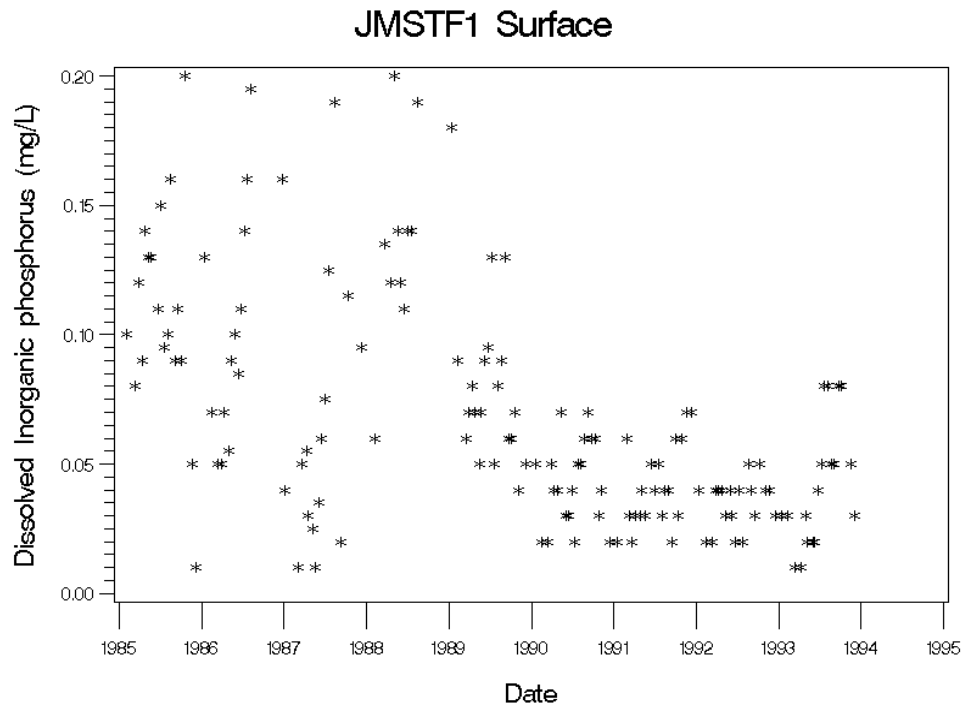


Figure 23. Scatterplots of surface total phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

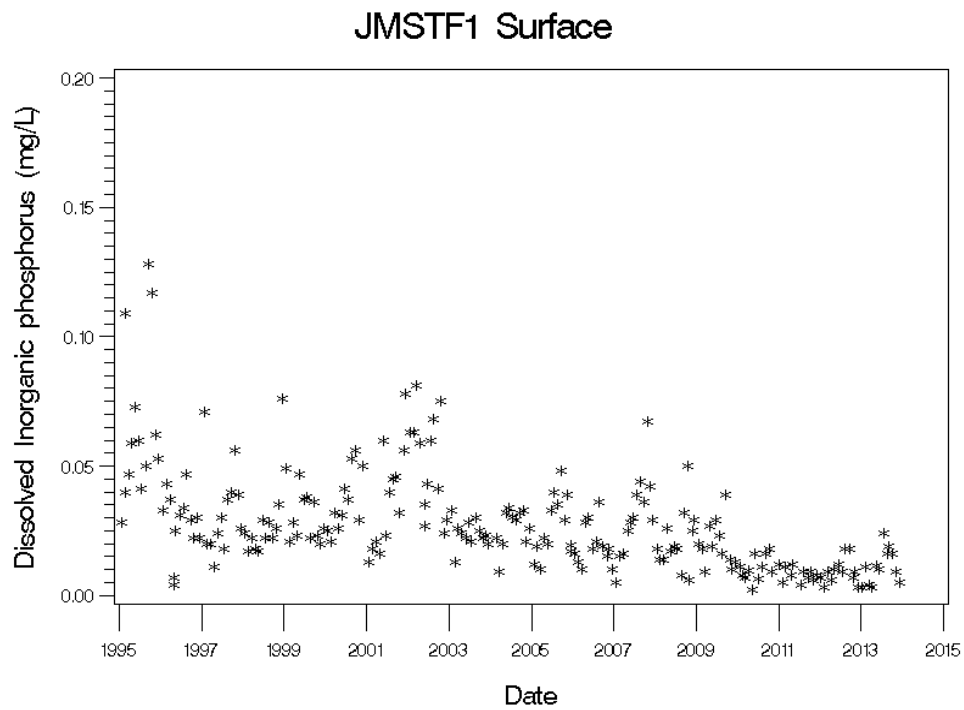


Figure 24. Scatterplots of surface dissolved inorganic phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

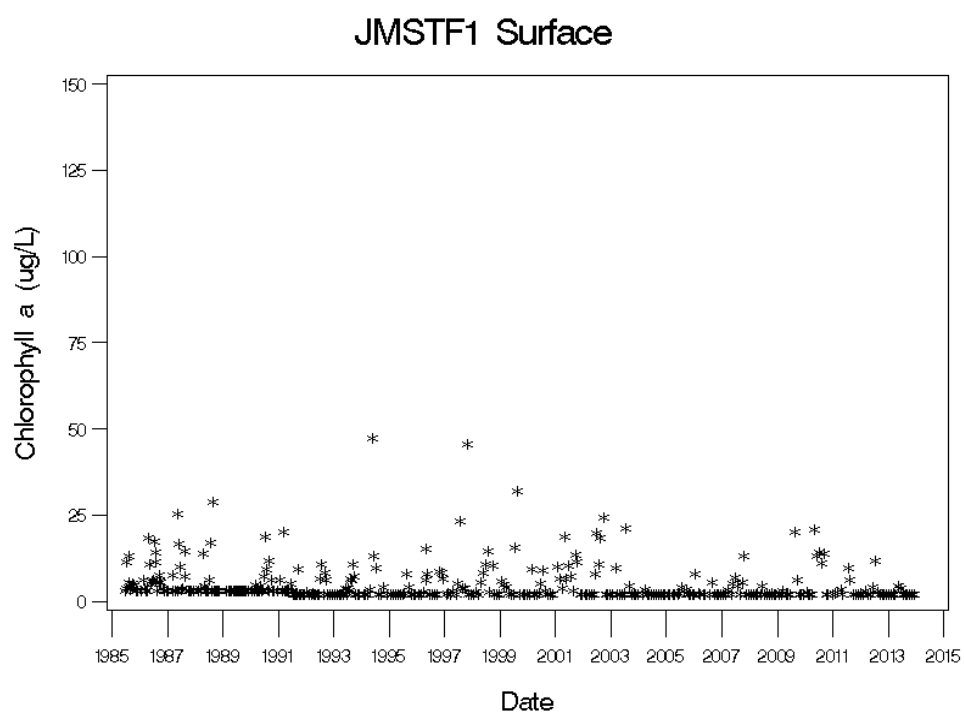


Figure 25. Scatterplot of surface chlorophyll a at segment JMSTF1 during the period 1985 to 2013.

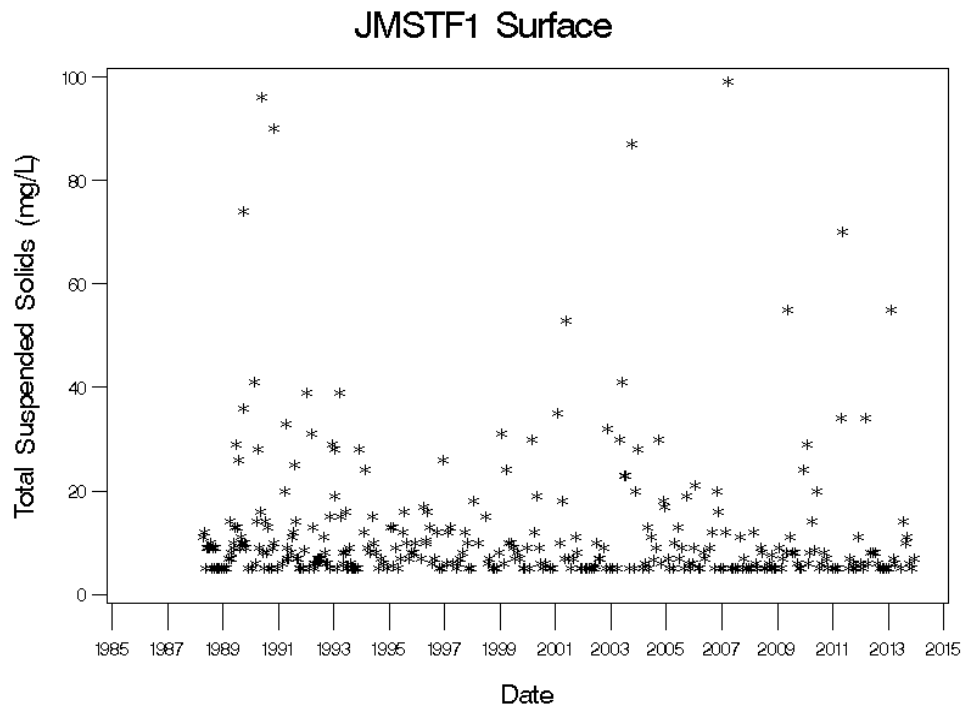


Figure 26. Scatterplot of surface total suspended solids at segment JMSTF1 during the period 1985 to 2013.

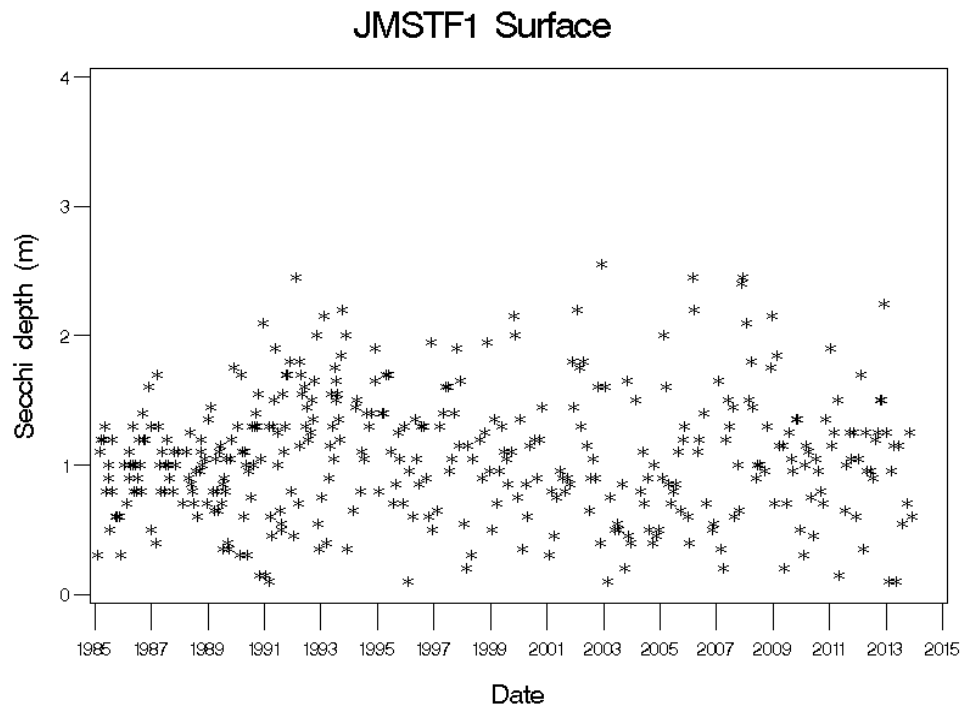


Figure 27. Scatterplot of secchi depth at segment JMSTF1 during the period 1985 to 2013.

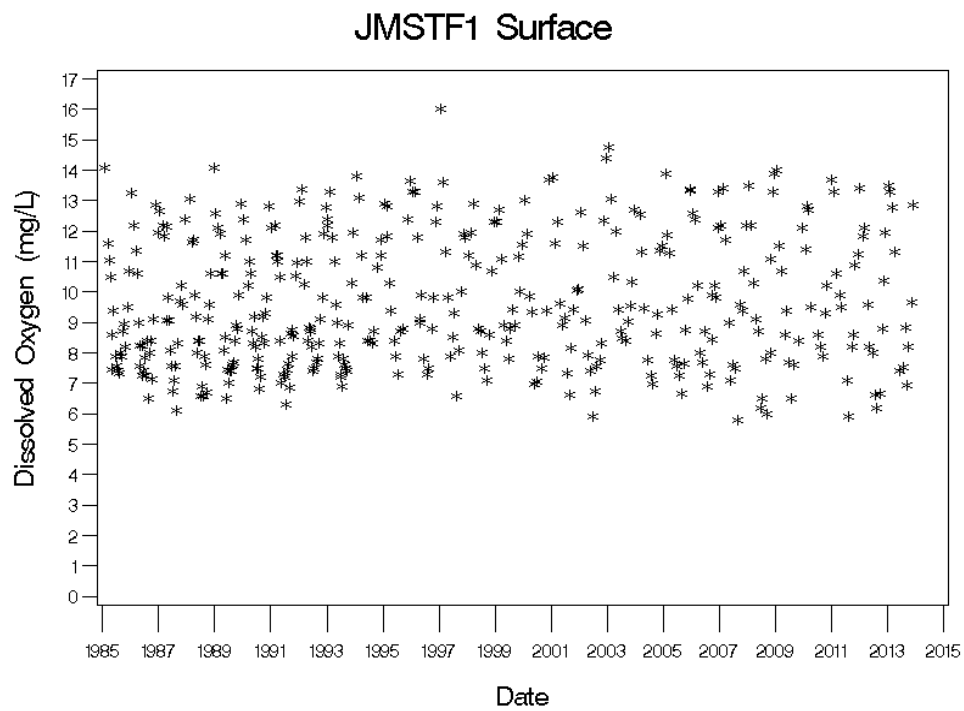


Figure 28. Scatterplot of surface dissolved oxygen at segment JMSTF1 during the period 1985 to 2013.

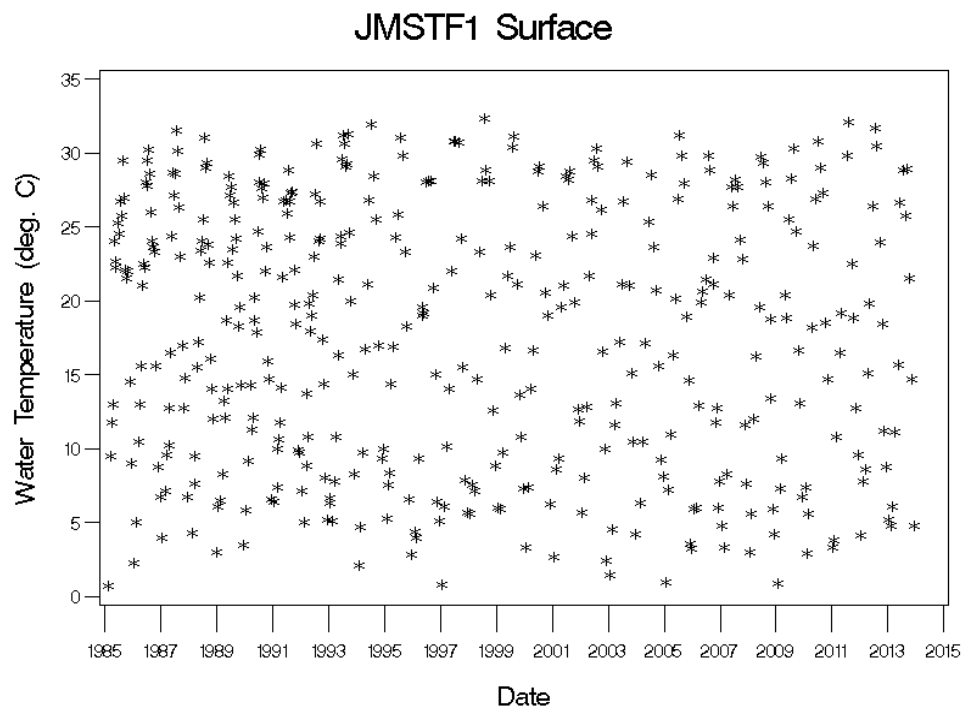


Figure 29. Scatterplot of surface water temperature at segment JMSTF1 during the period 1985 to 2013.

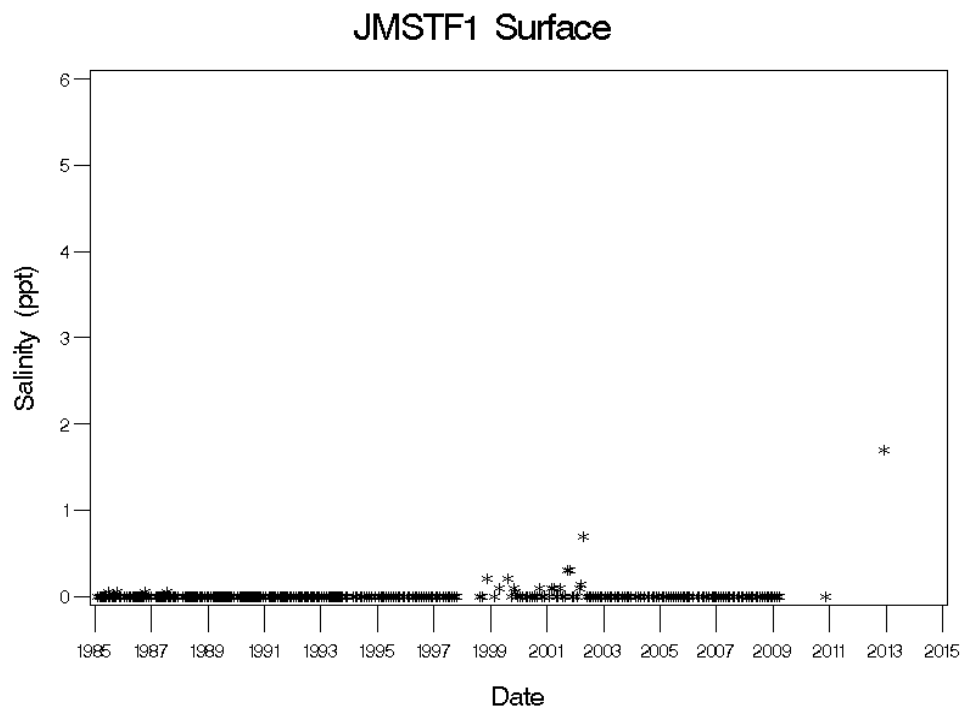


Figure 30. Scatterplot of surface salinity at segment JMSTF1 during the period 1985 to 2013.

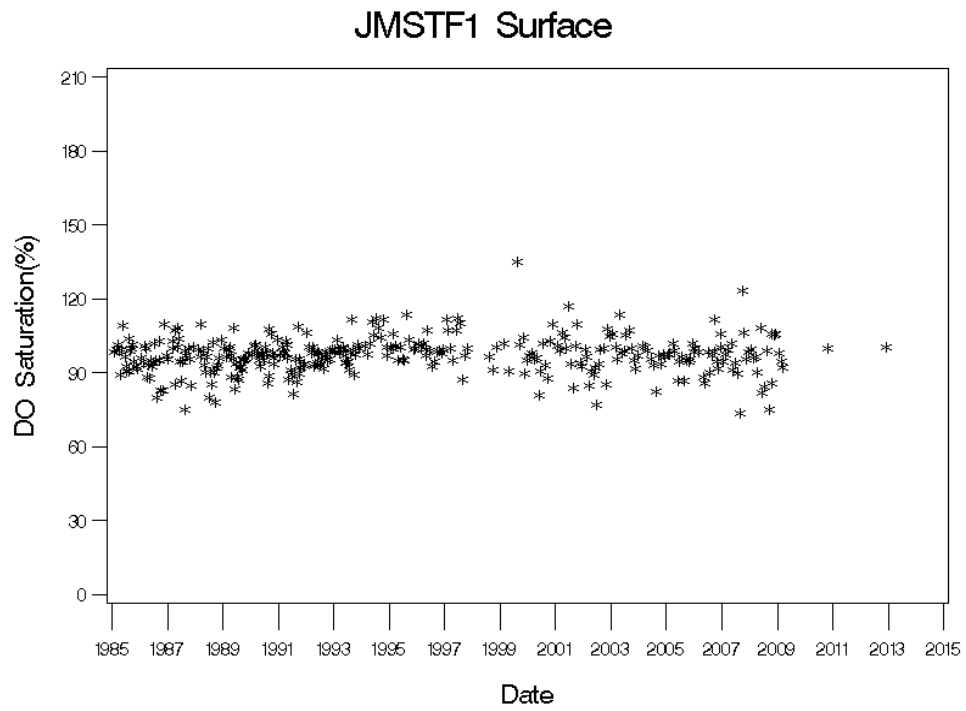
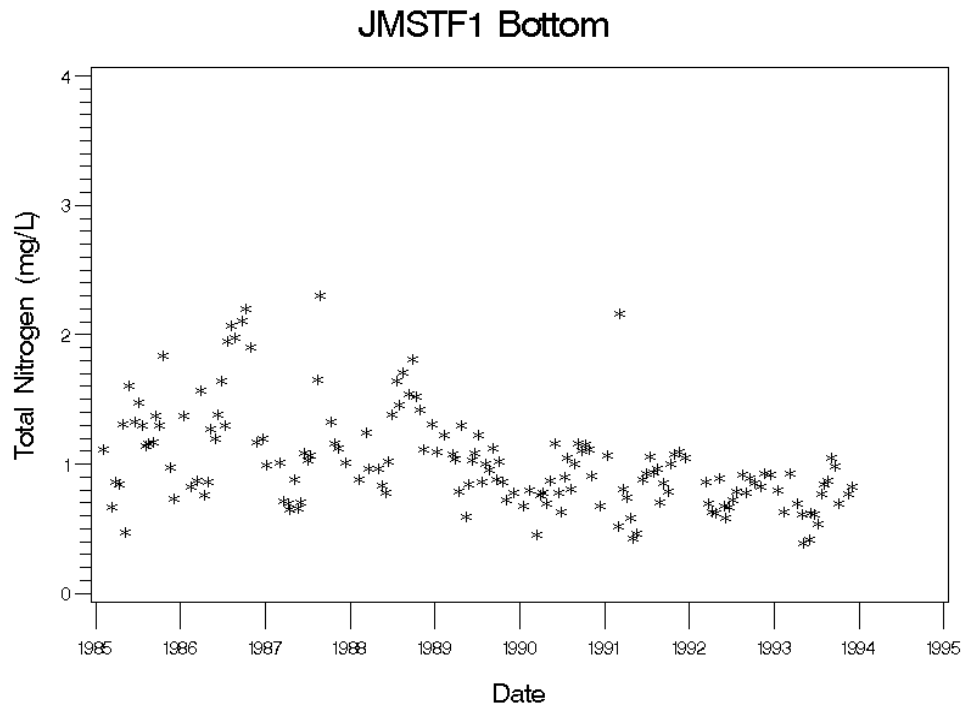


Figure 31. Scatterplot of surface DO saturation at segment JMSTF1 during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

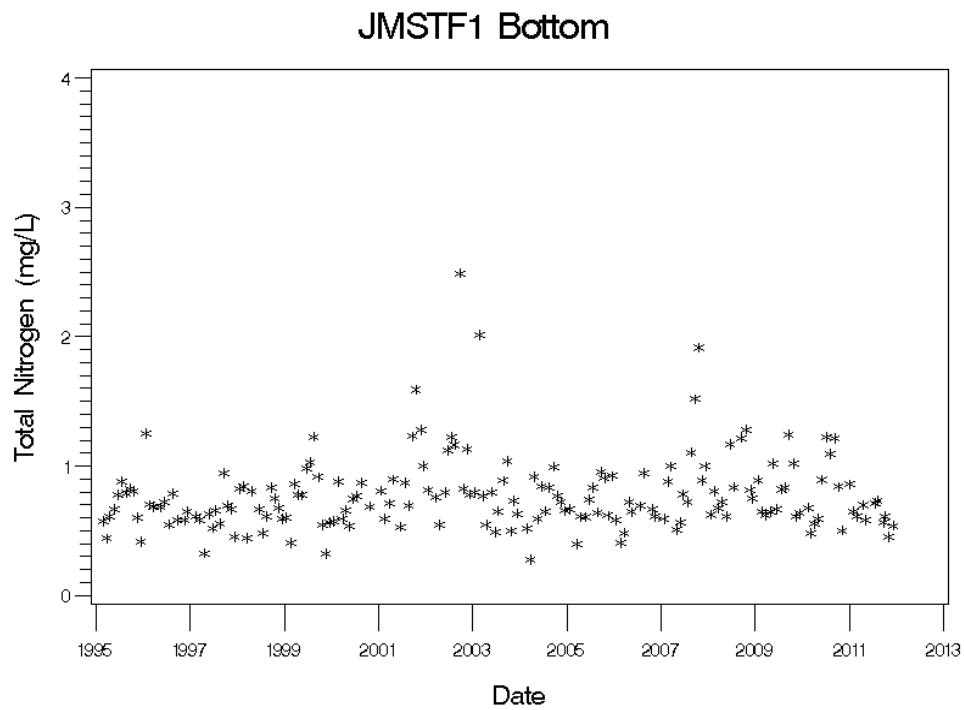
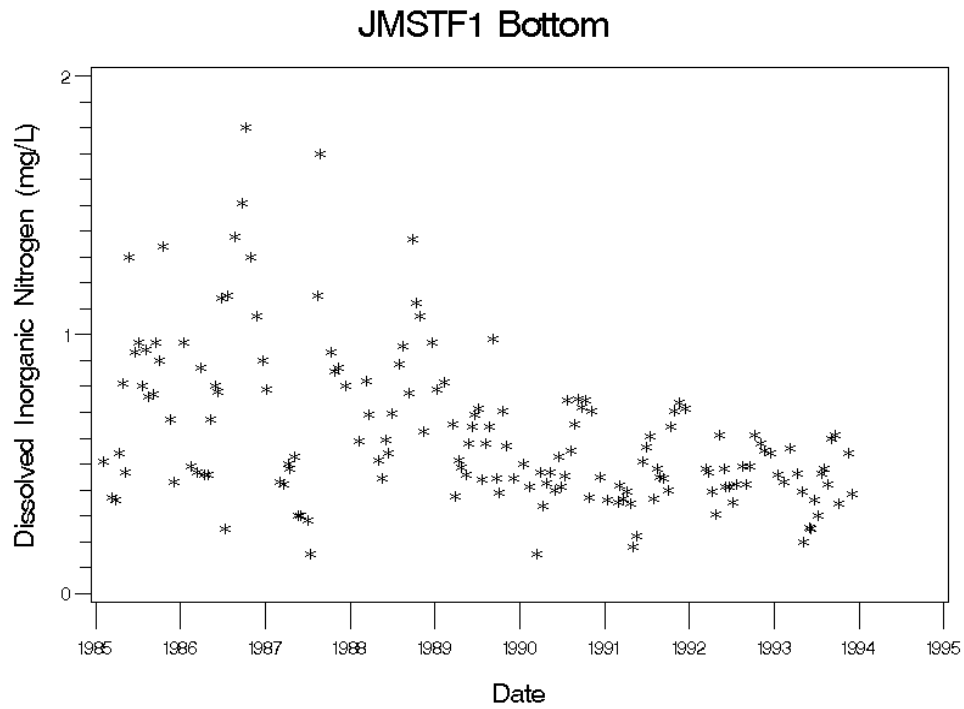


Figure 32. Scatterplots of bottom total nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

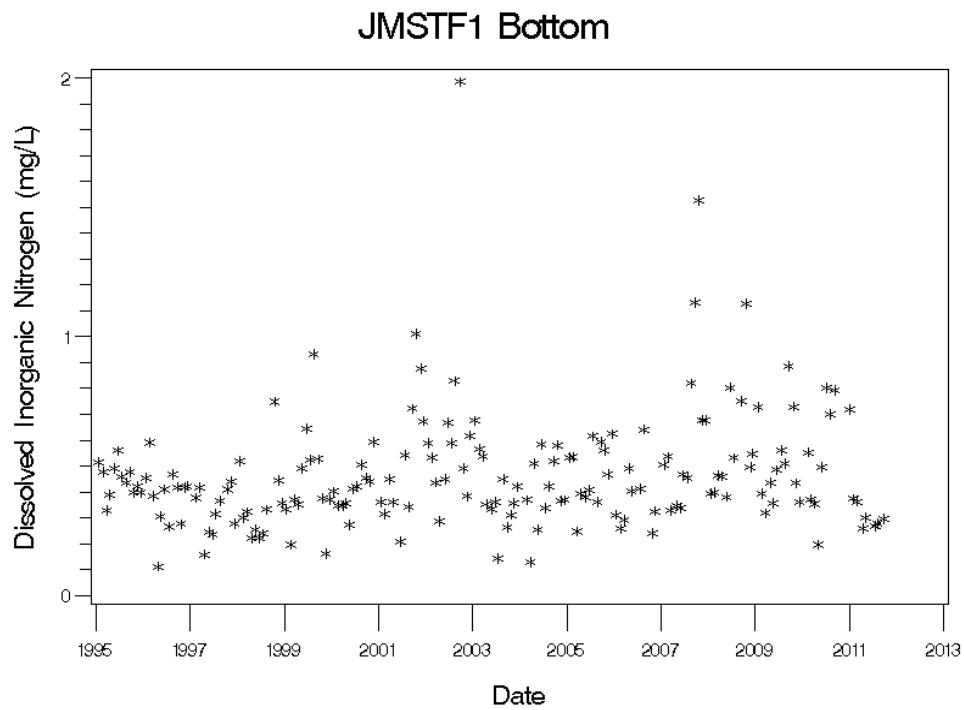
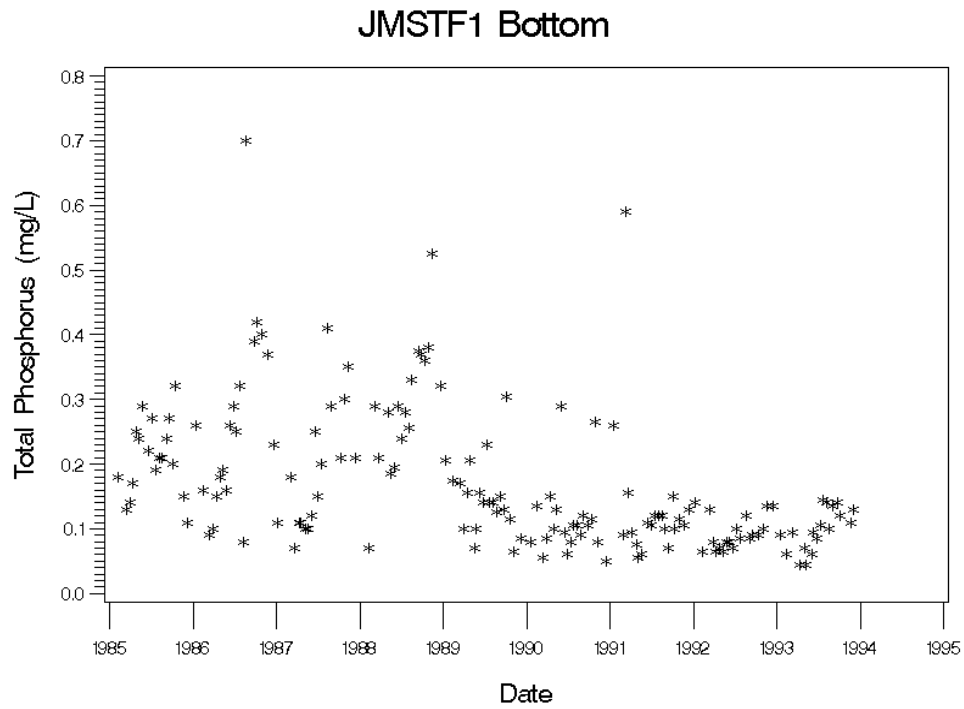


Figure 33. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

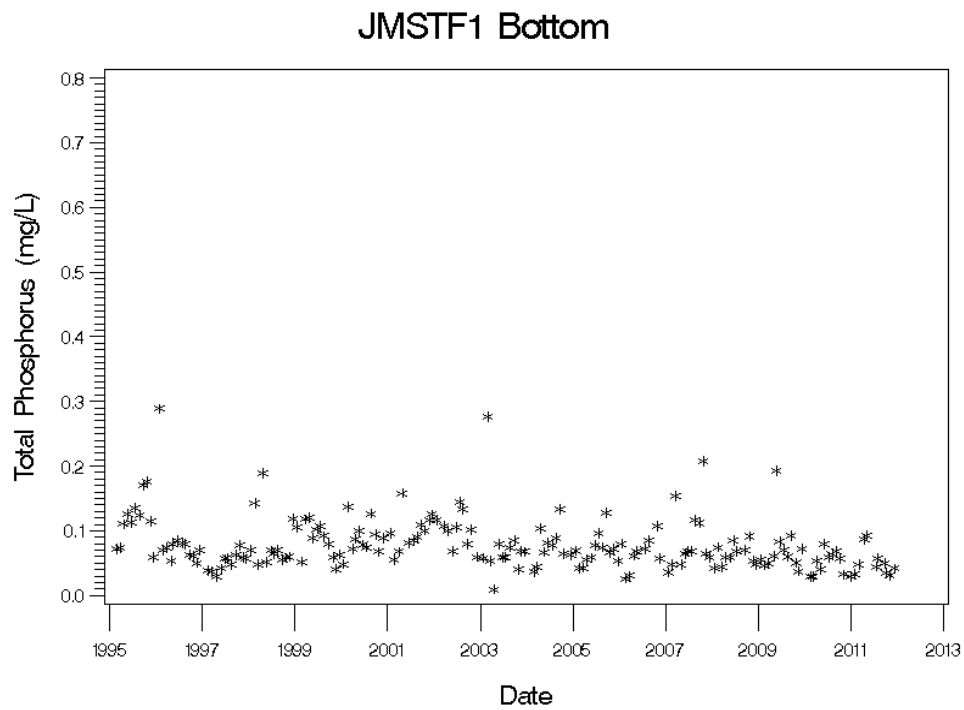
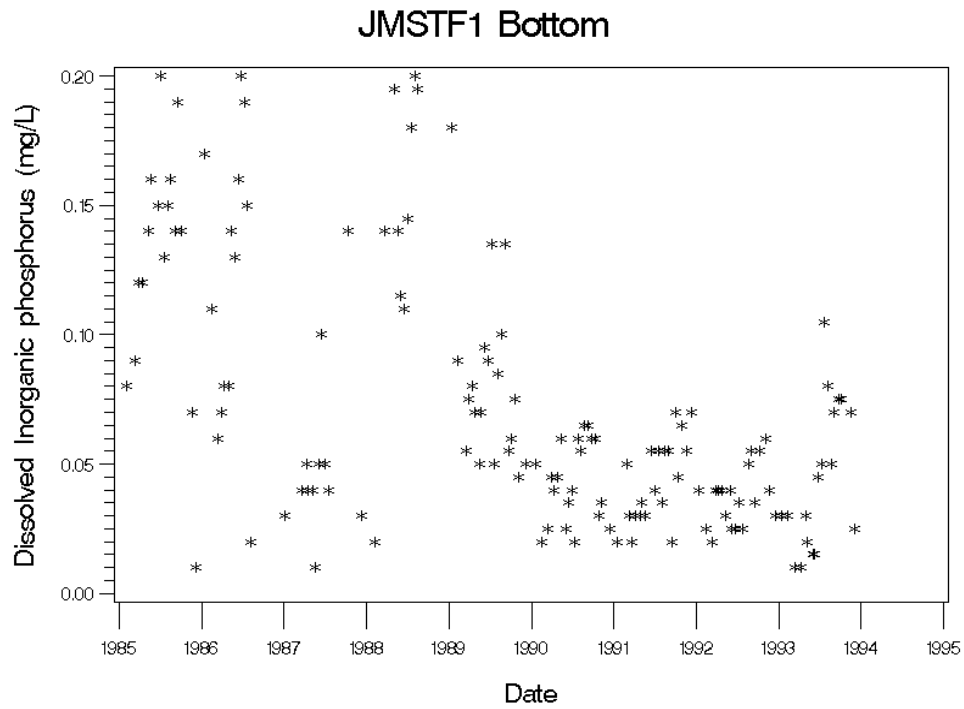


Figure 34. Scatterplots of bottom total phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

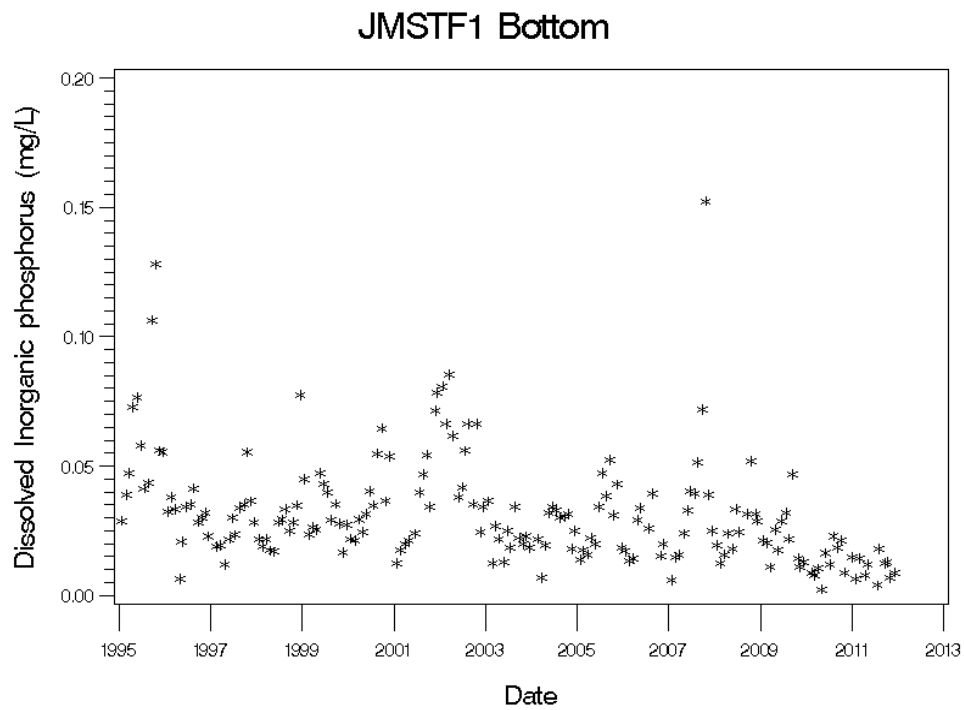


Figure 35. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

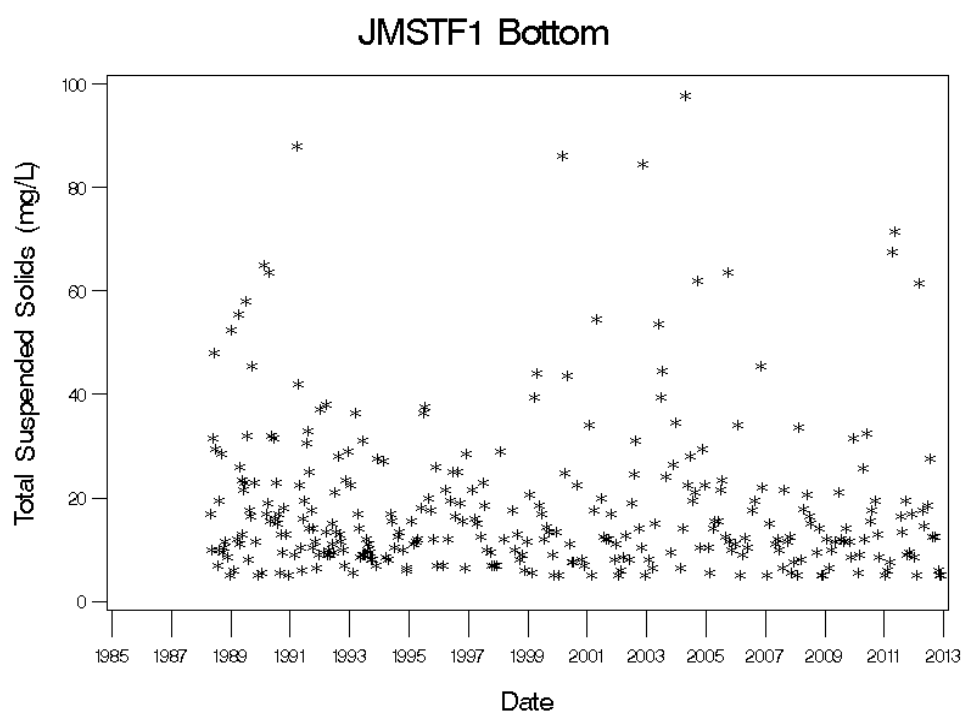


Figure 36. Scatterplot of bottom total suspended solids at segment JMSTF1 during the period 1985 to 2013.

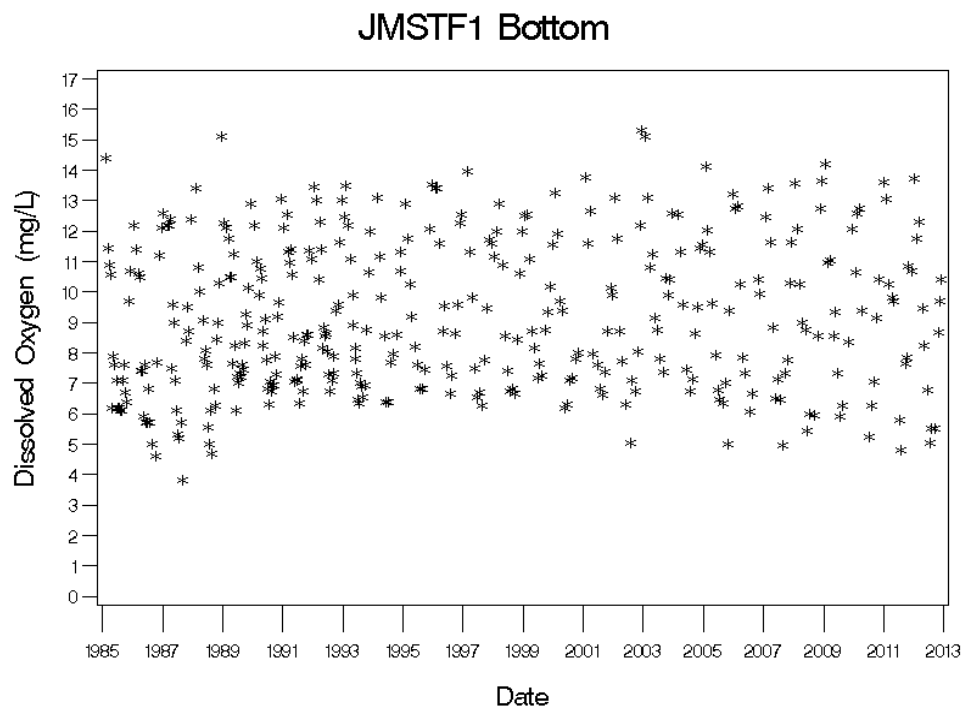


Figure 37. Scatterplot of bottom dissolved oxygen at segment JMSTF1 during the period 1985 to 2013.

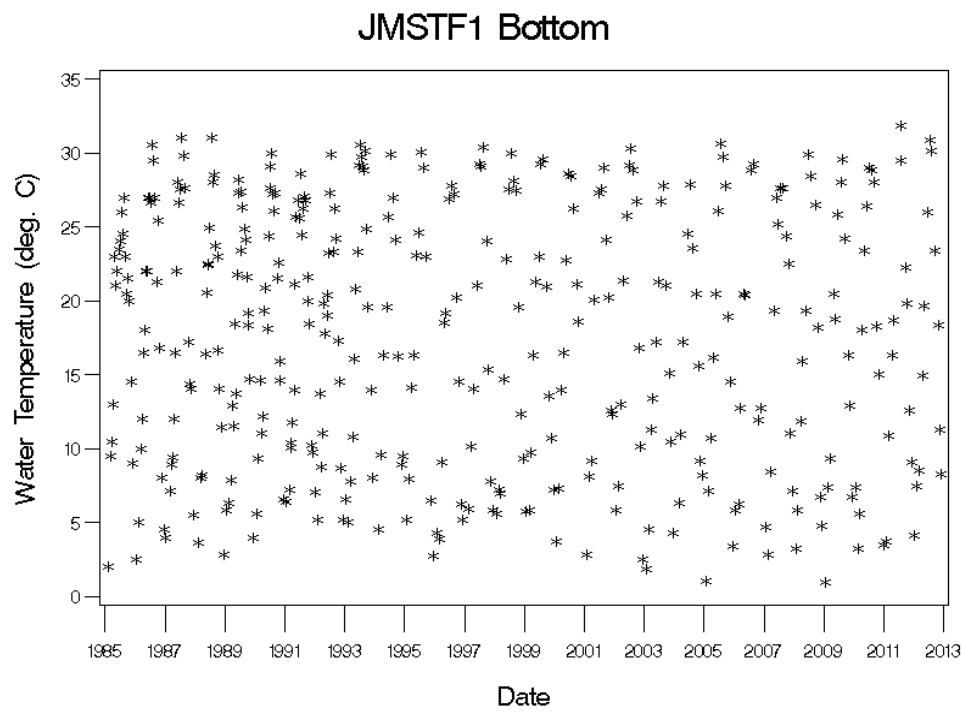


Figure 38. Scatterplot of bottom water temperature at segment JMSTF1 during the period 1985 to 2013.

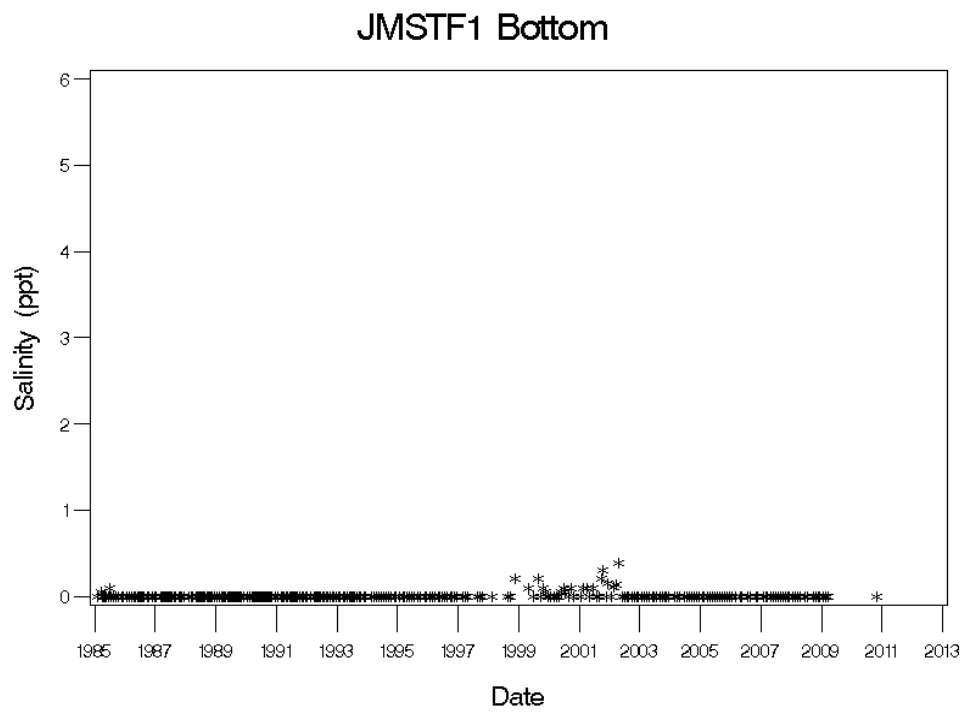


Figure 39. Scatterplot of bottom salinity at segment JMSTF1 during the period 1985 to 2013.

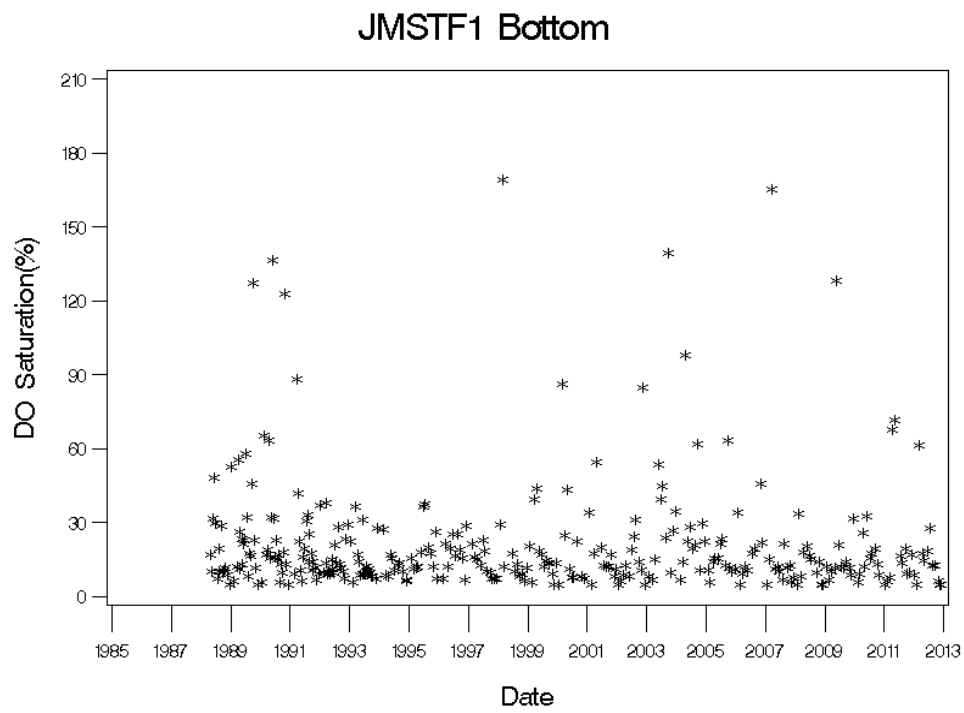
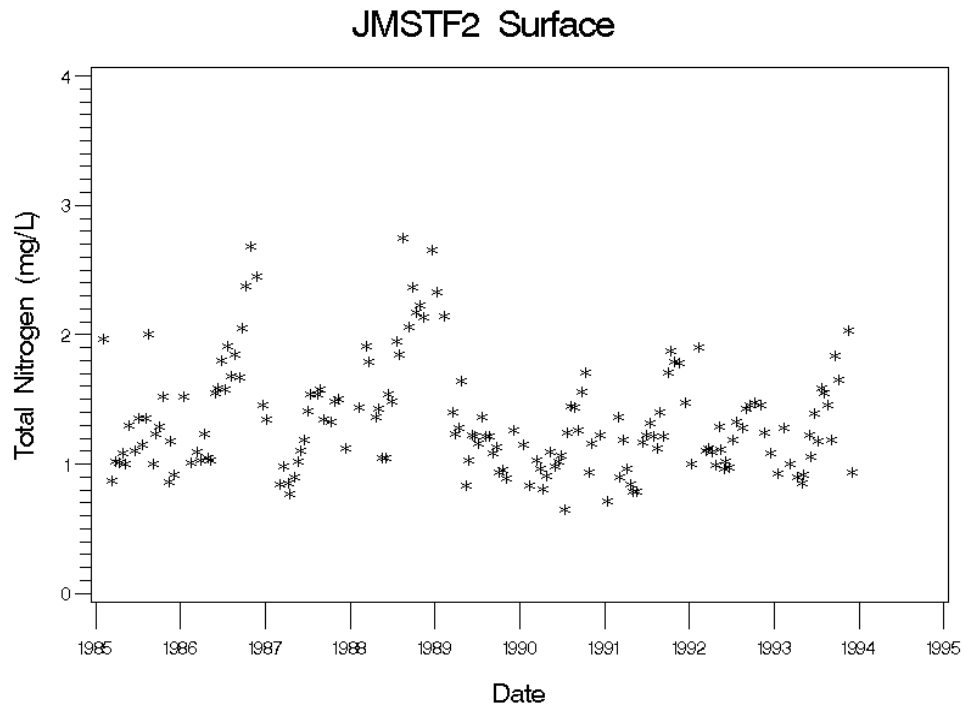


Figure 40. Scatterplot of bottom DO saturation at segment JMSTF1 during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

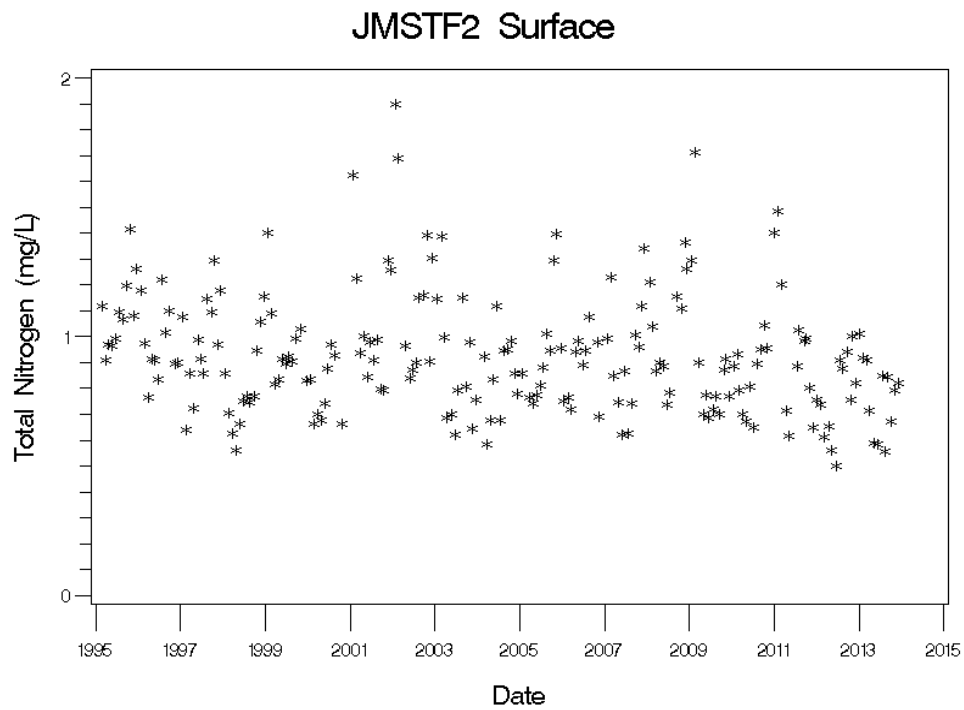
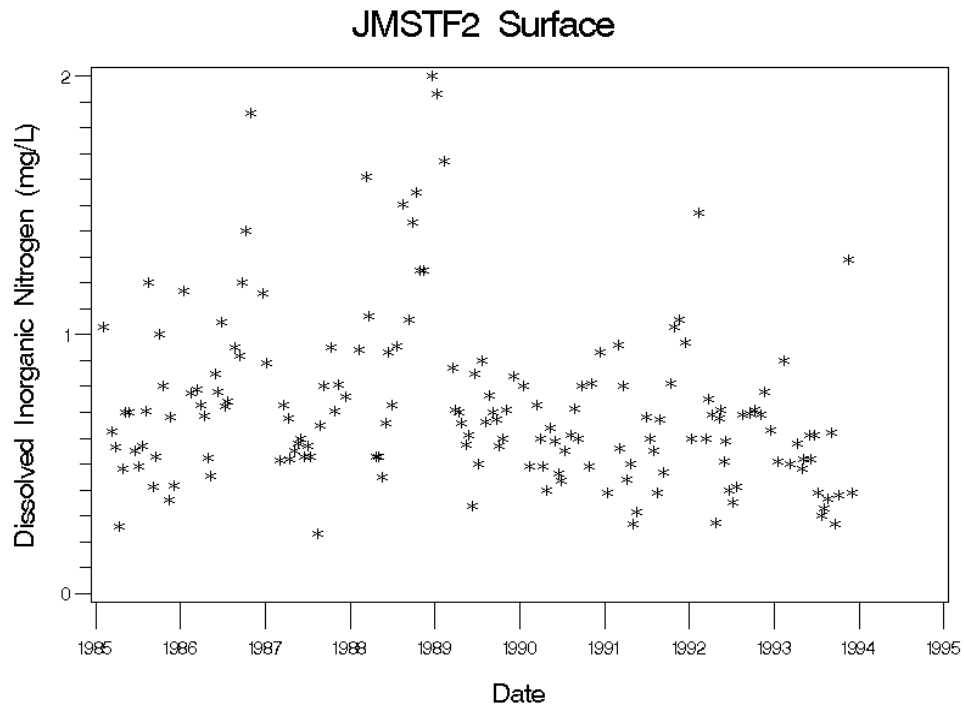


Figure 41. Scatterplots of surface total nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

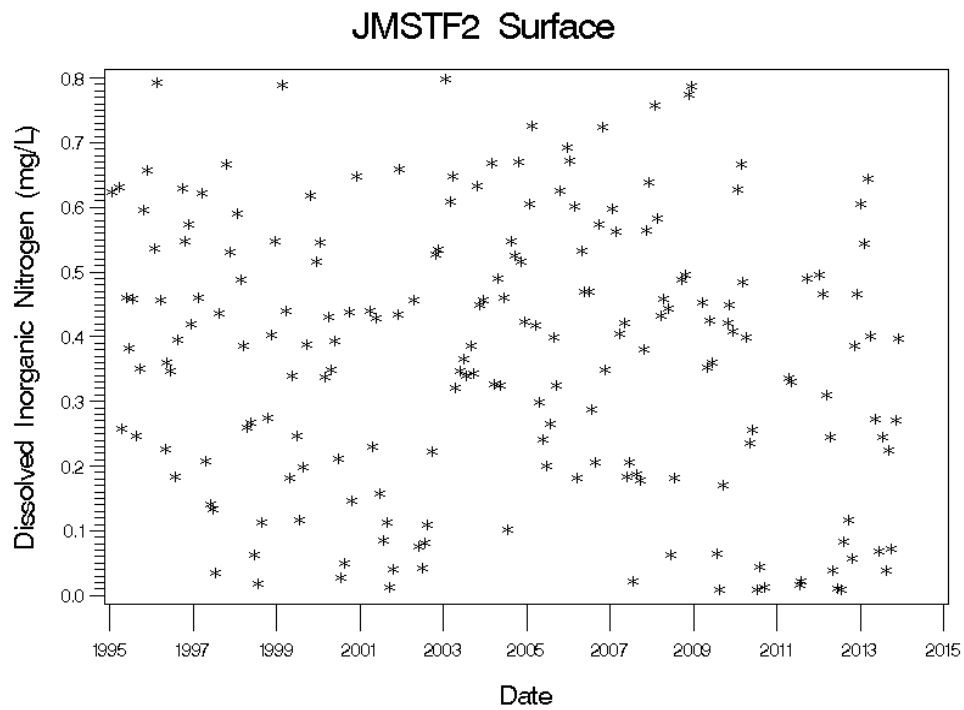
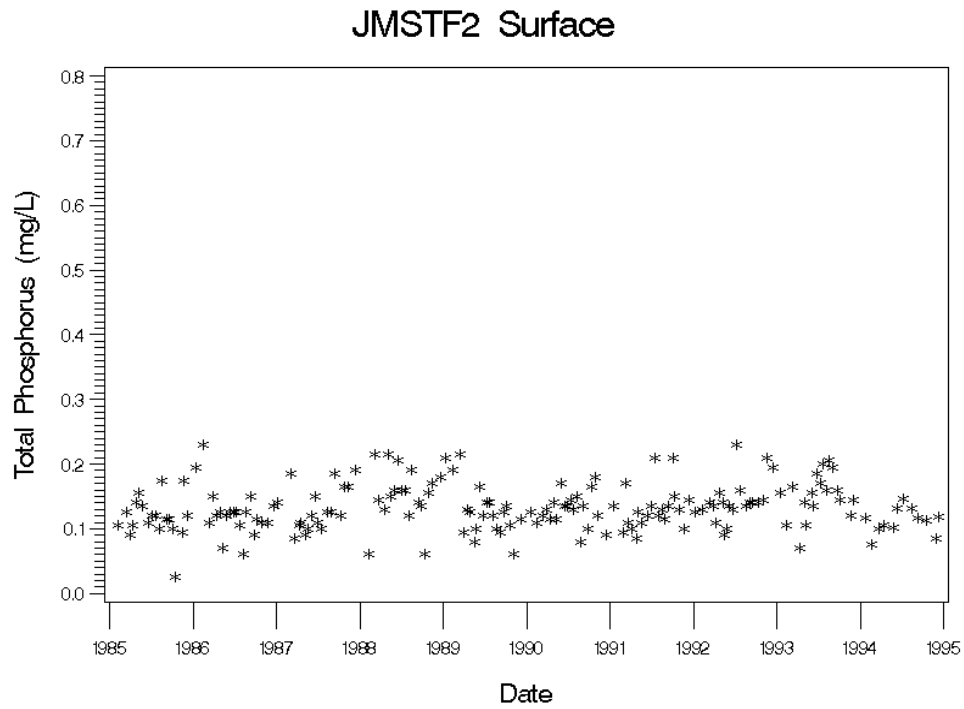


Figure 42. Scatterplots of surface dissolved inorganic nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

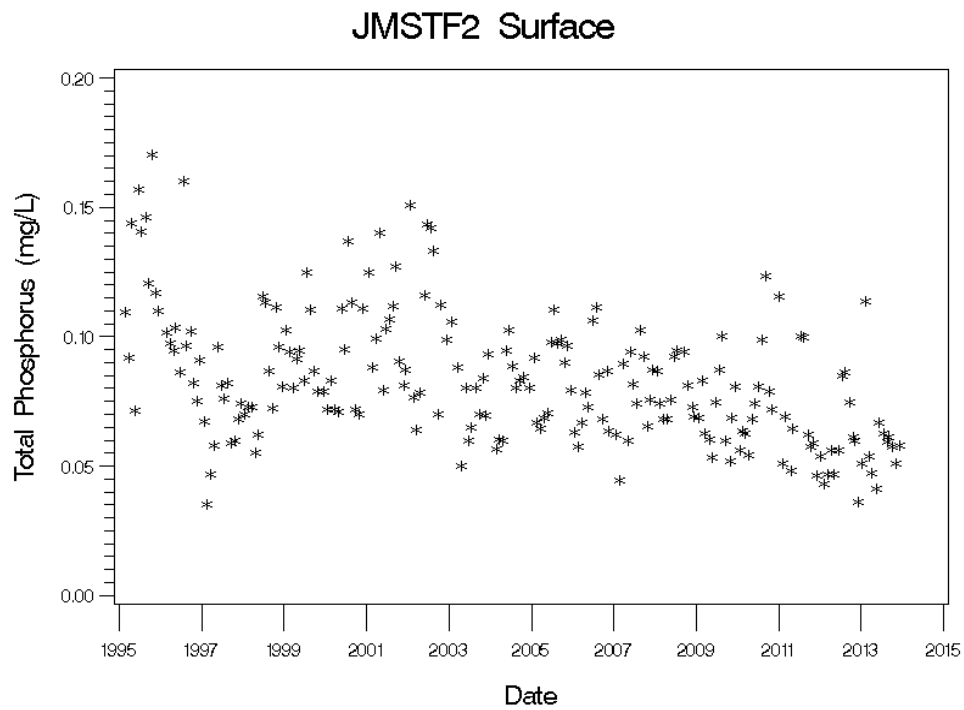
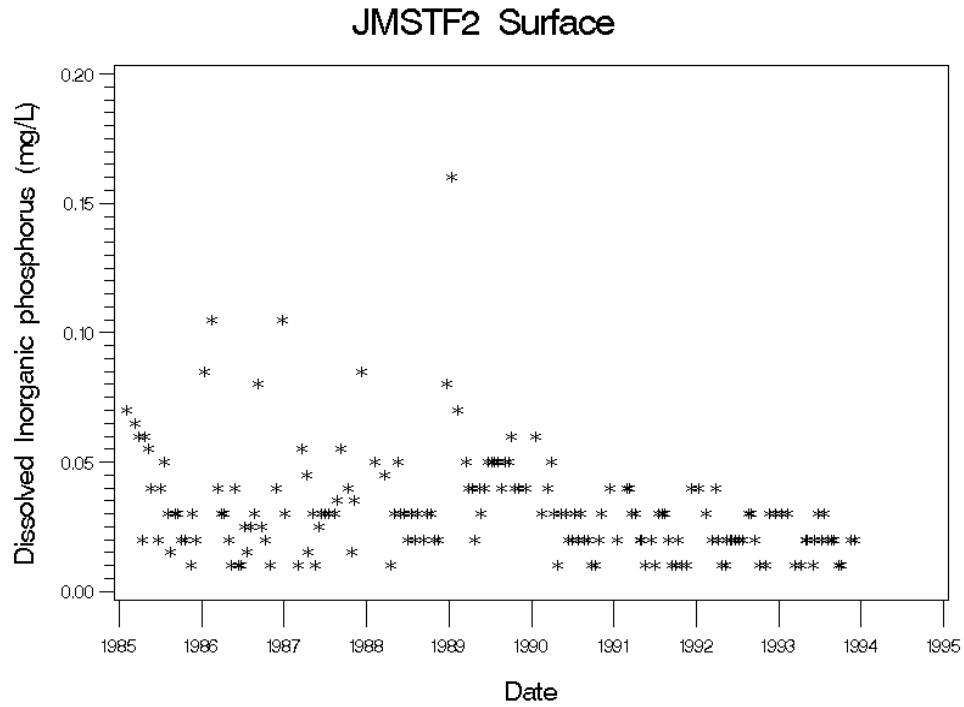


Figure 43. Scatterplots of surface total phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

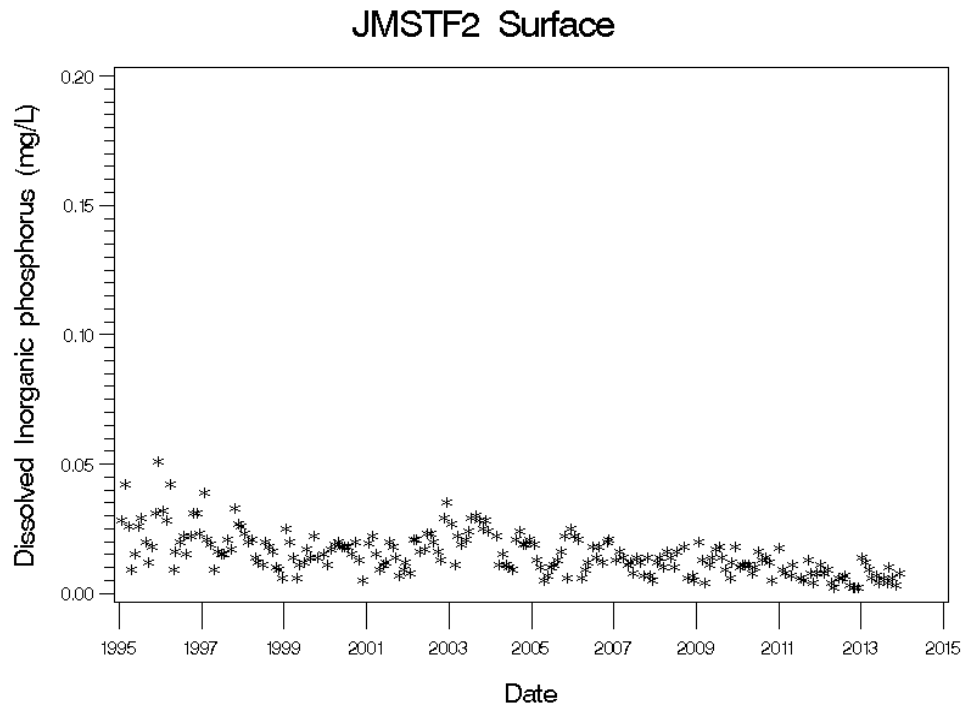


Figure 44. Scatterplots of surface dissolved inorganic phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

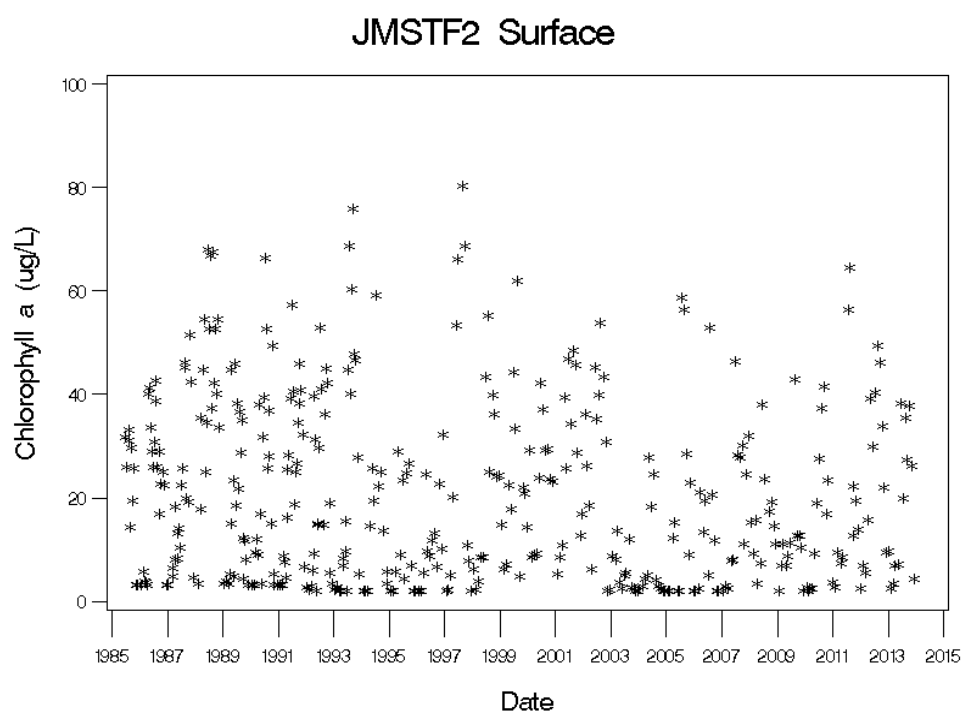


Figure 45. Scatterplot of surface chlorophyll a at segment JMSTF2 during the period 1985 to 2013.

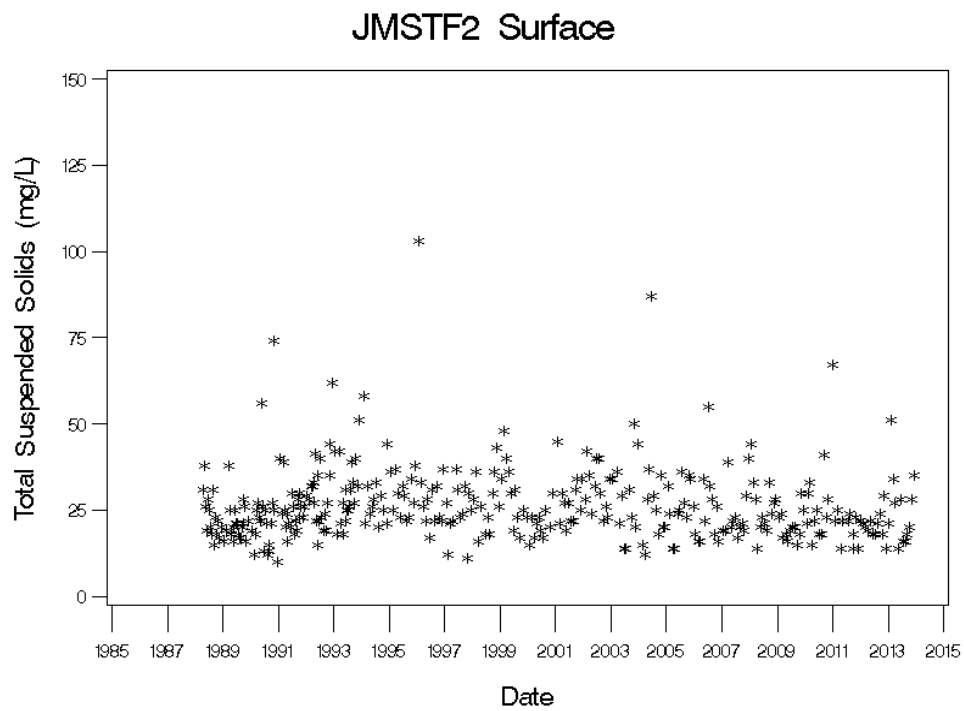


Figure 46. Scatterplot of surface total suspended solids at segment JMSTF2 during the period 1985 to 2013.

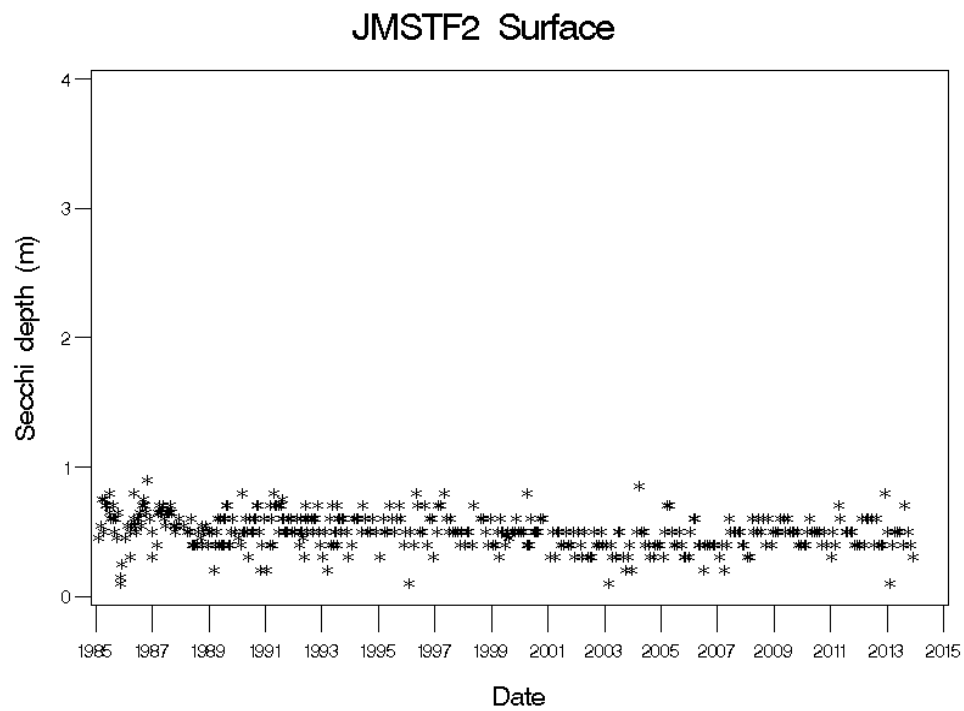


Figure 47. Scatterplot of secchi depth at segment JMSTF2 during the period 1985 to 2013.

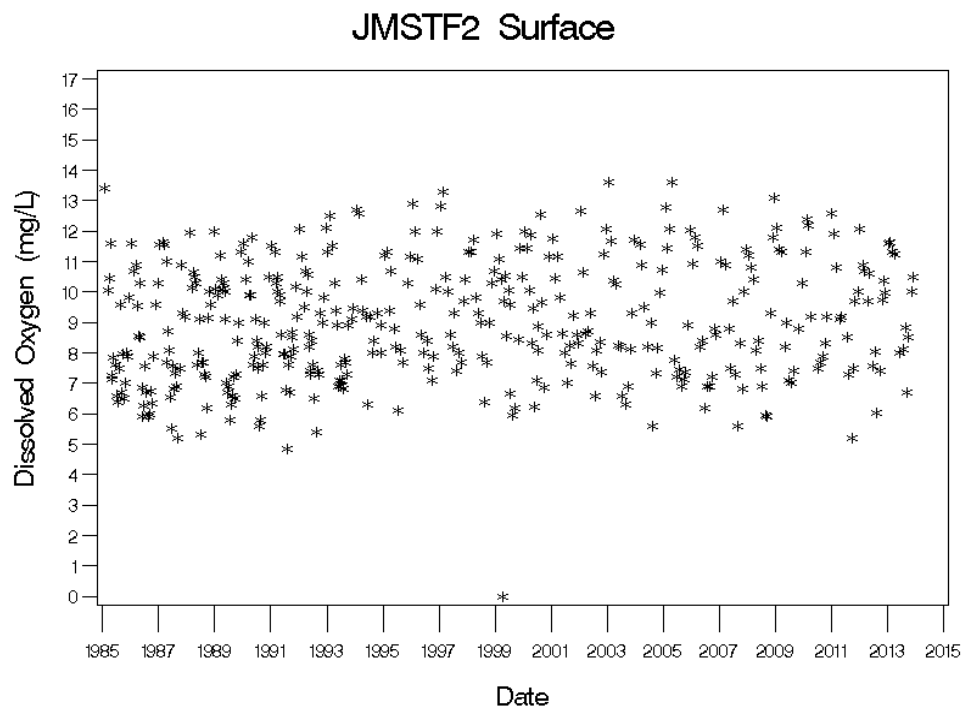


Figure 48. Scatterplot of surface dissolved oxygen at segment JMSTF2 during the period 1985 to 2013.

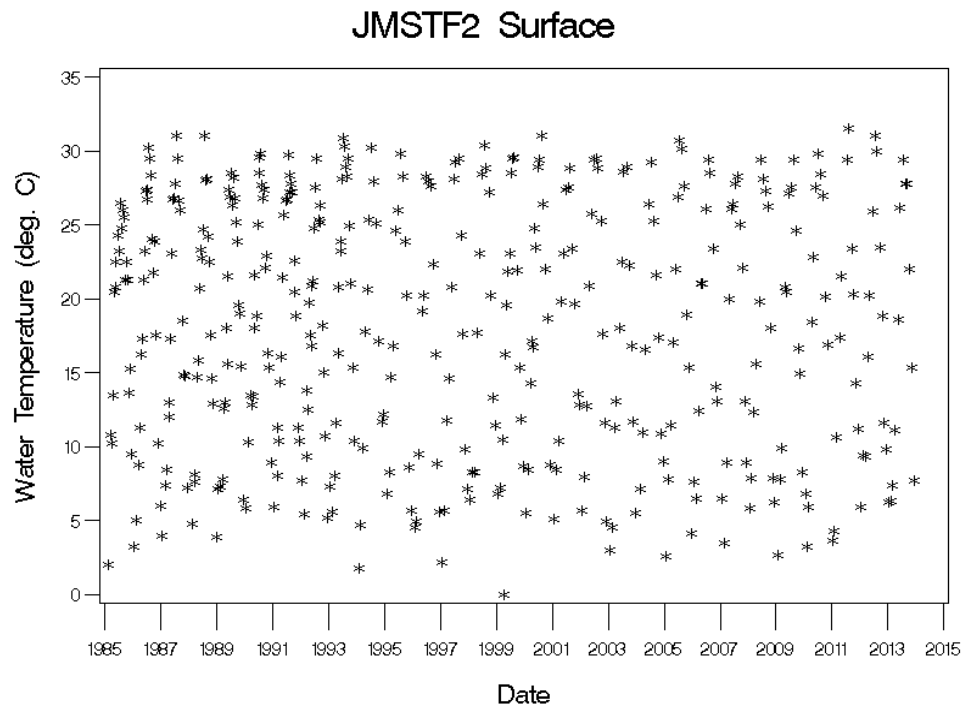


Figure 49. Scatterplot of surface water temperature at segment JMSTF2 during the period 1985 to 2013.

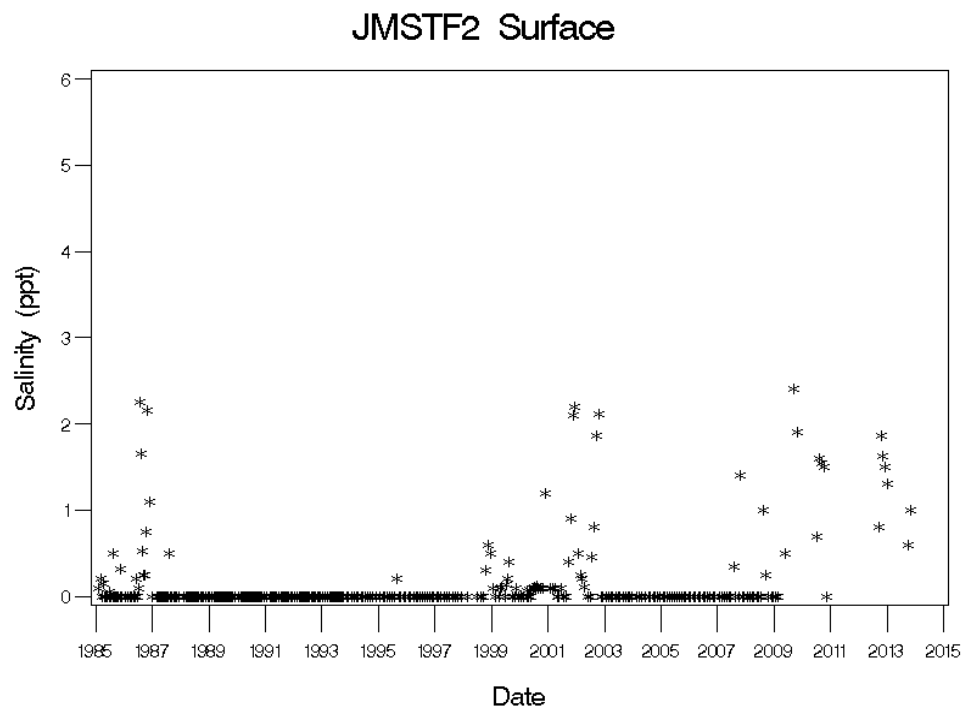


Figure 50. Scatterplot of surface salinity at segment JMSTF2 during the period 1985 to 2013.

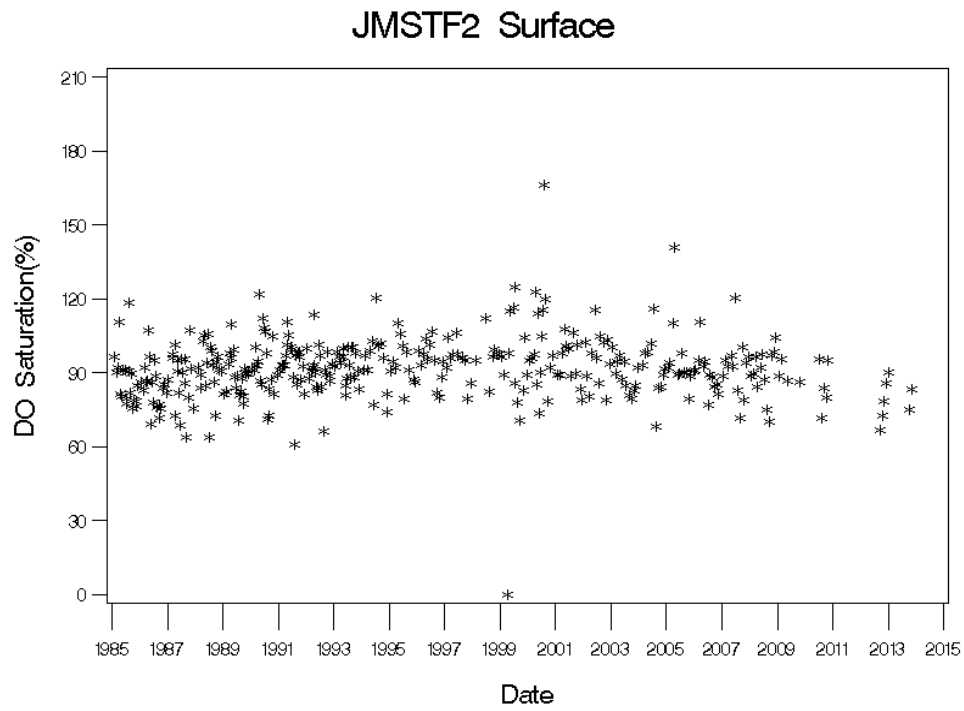
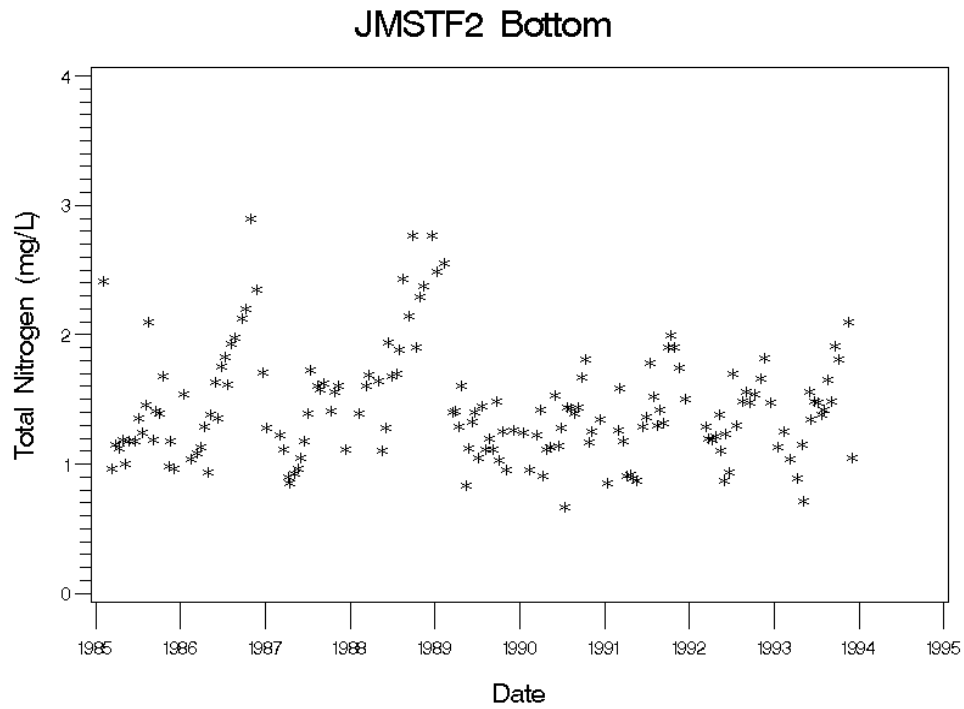


Figure 51. Scatterplot of surface DO saturation at segment JMSTF2 during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

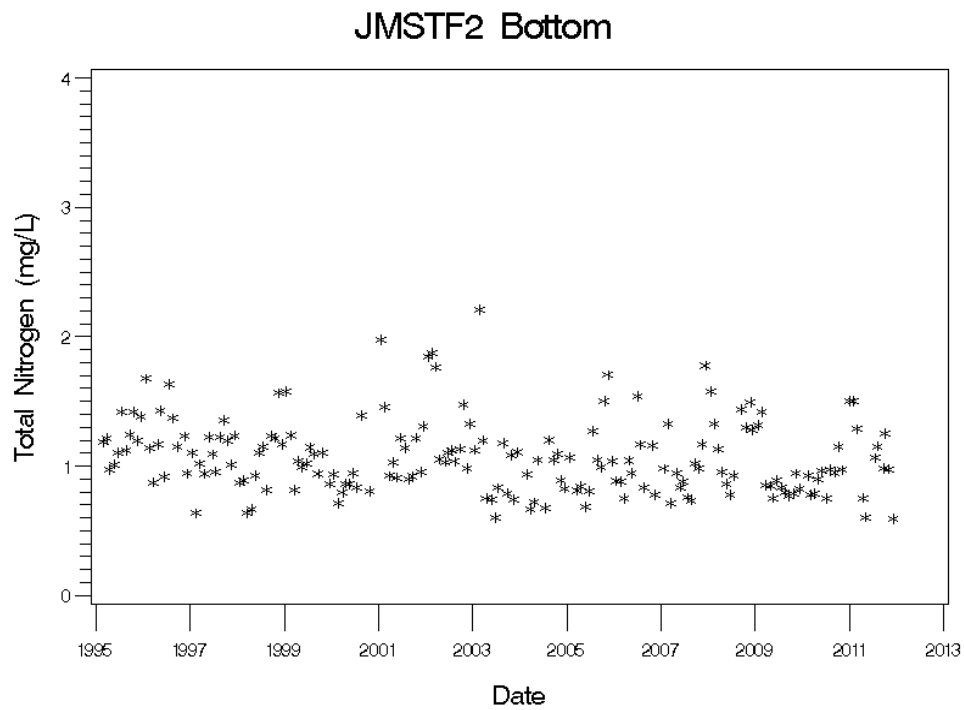
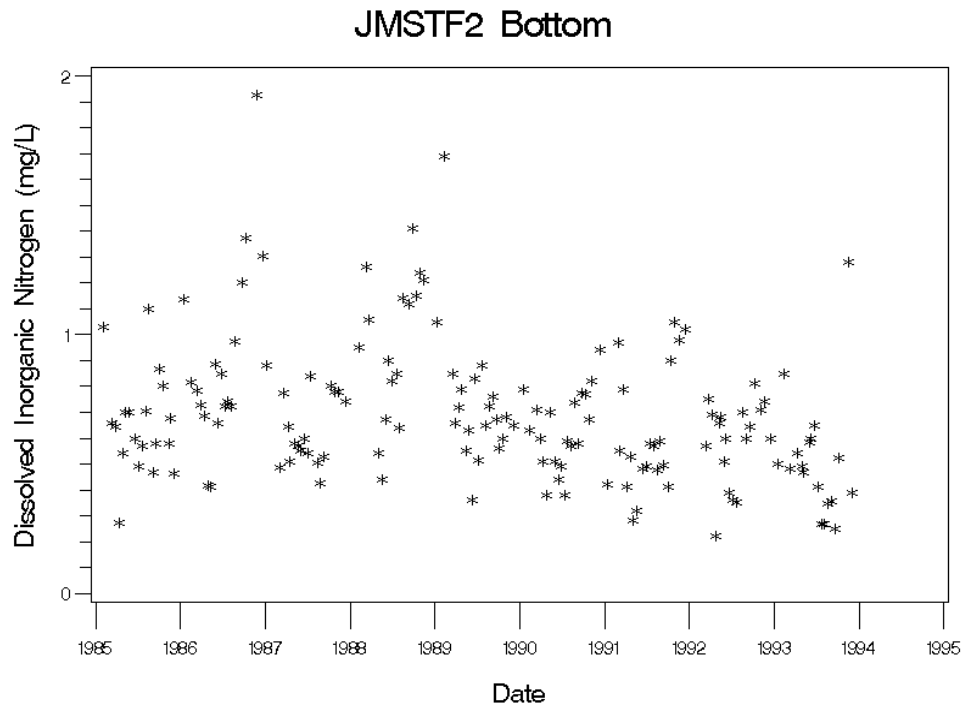


Figure 52. Scatterplots of bottom total nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

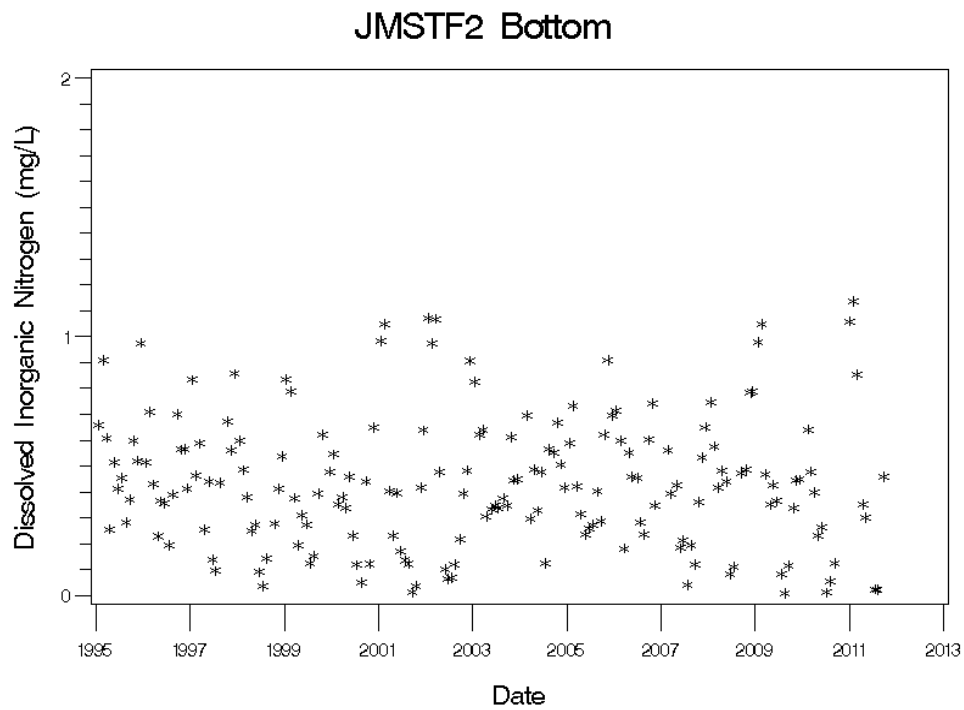
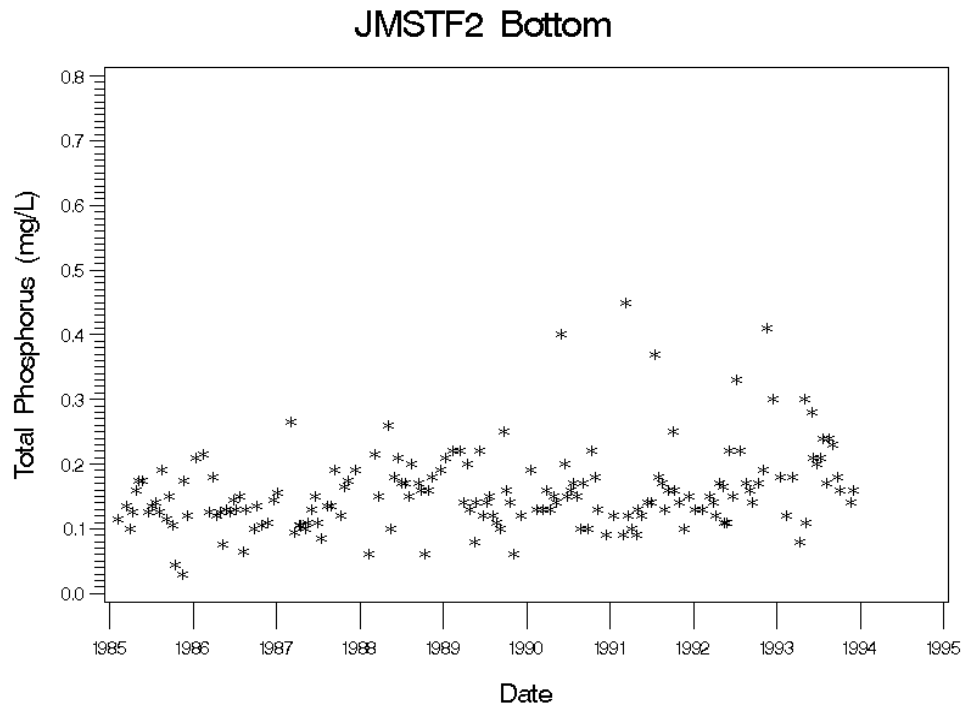


Figure 53. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

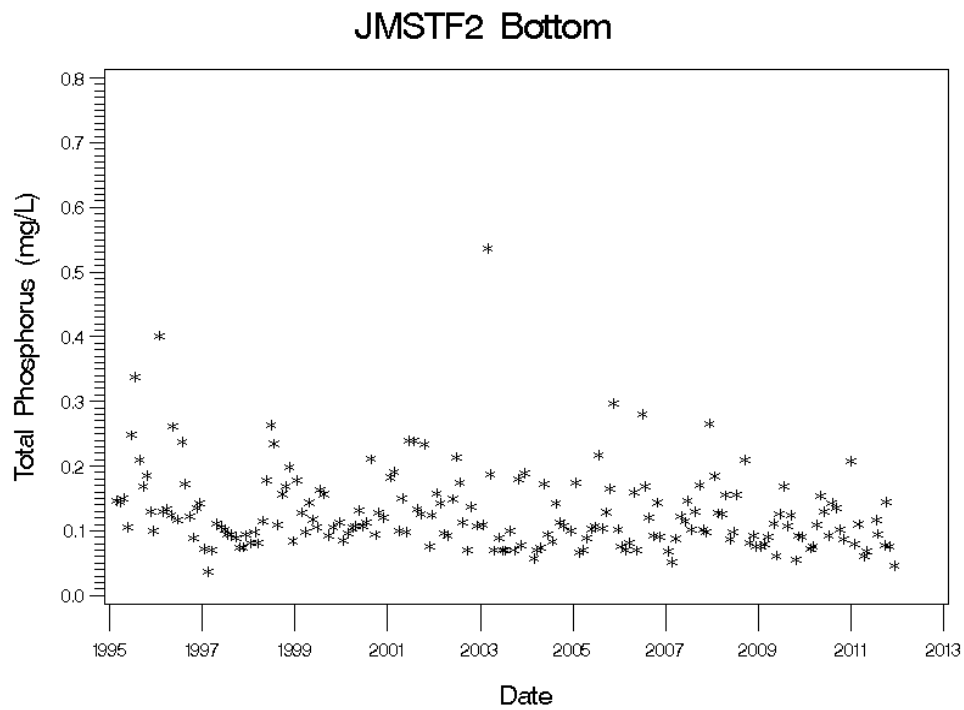
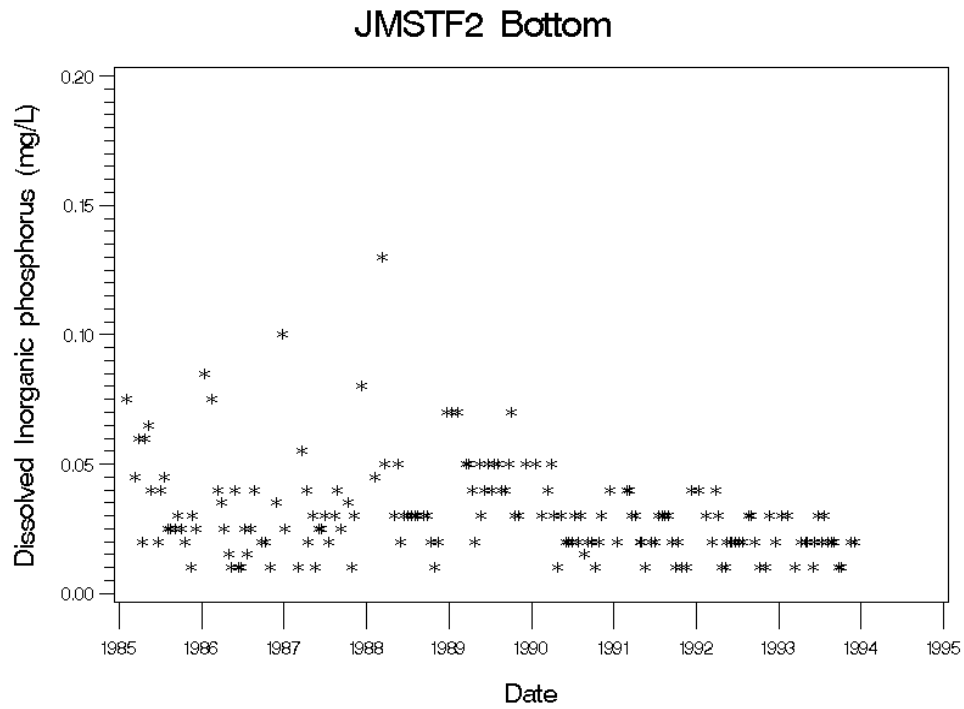


Figure 54. Scatterplots of bottom total phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

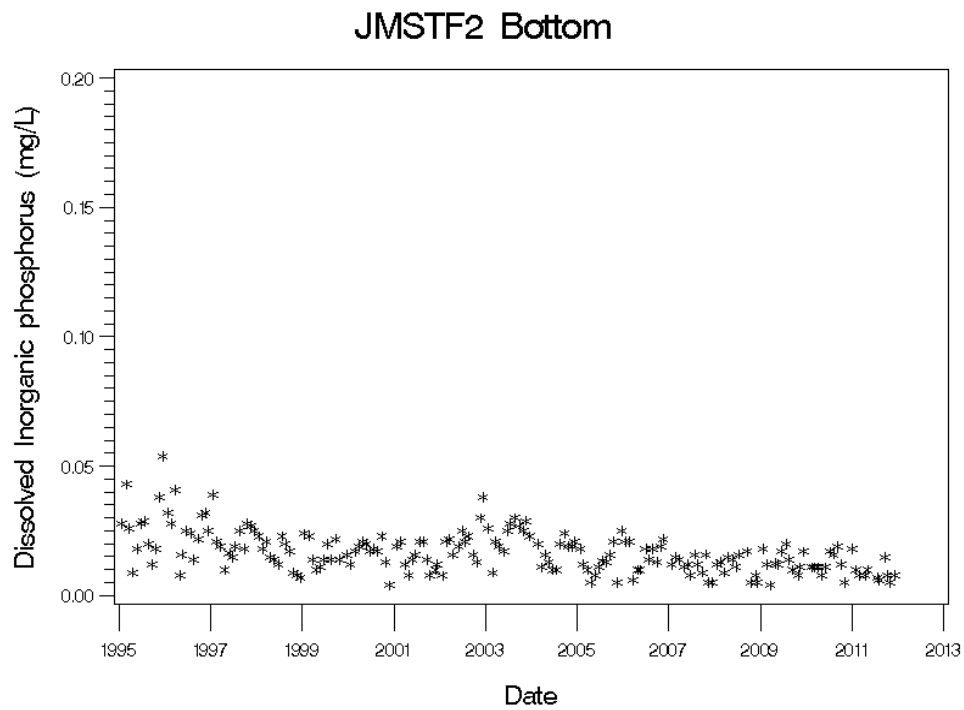


Figure 55. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

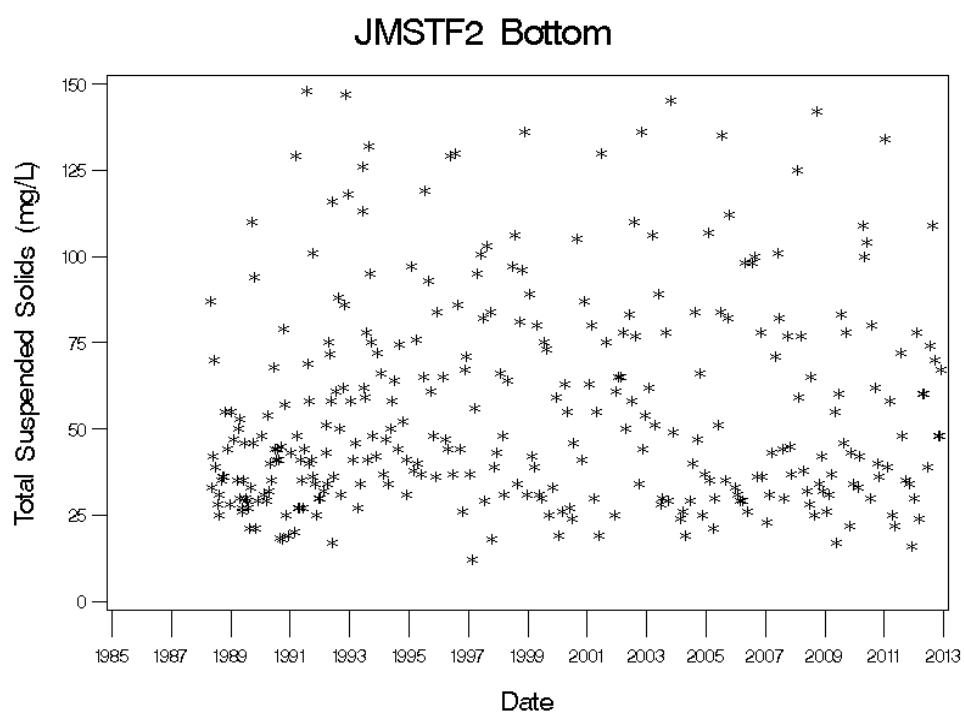


Figure 56. Scatterplot of bottom total suspended solids at segment JMSTF2 during the period 1985 to 2013.

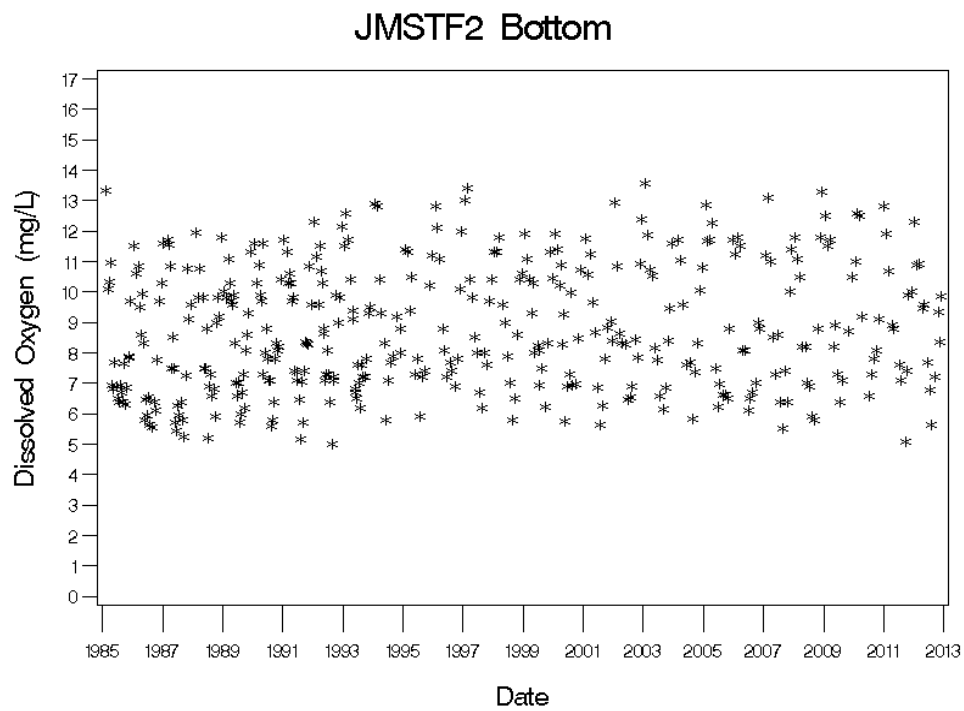


Figure 57. Scatterplot of bottom dissolved oxygen at segment JMSTF2 during the period 1985 to 2013.

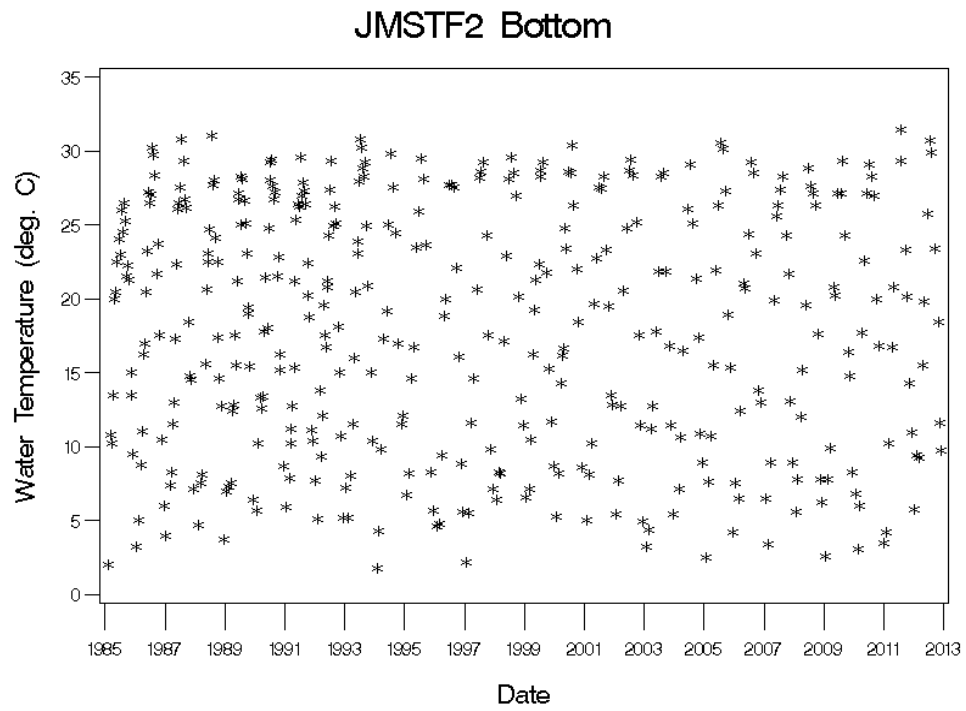


Figure 58. Scatterplot of bottom water temperature at segment JMSTF2 during the period 1985 to 2013.

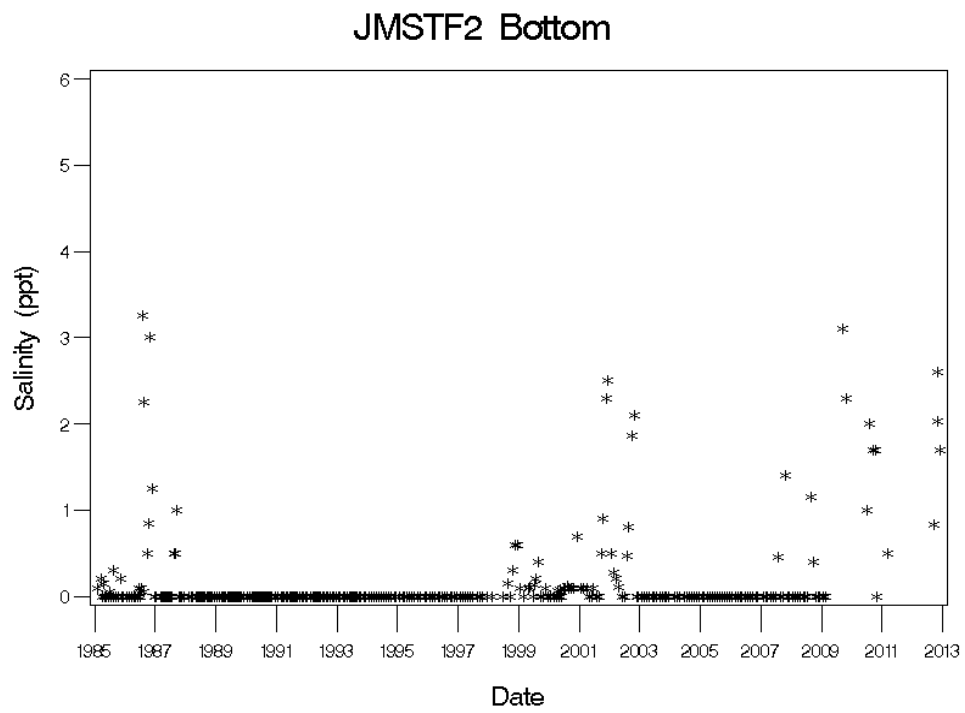


Figure 59. Scatterplot of bottom salinity at segment JMSTF2 during the period 1985 to 2013.

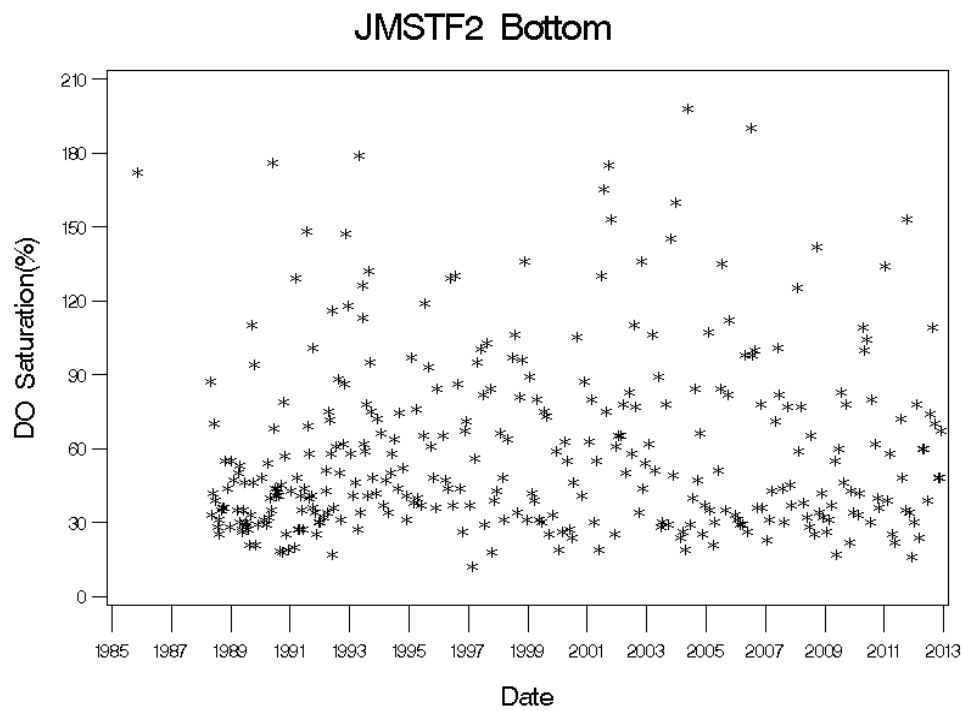
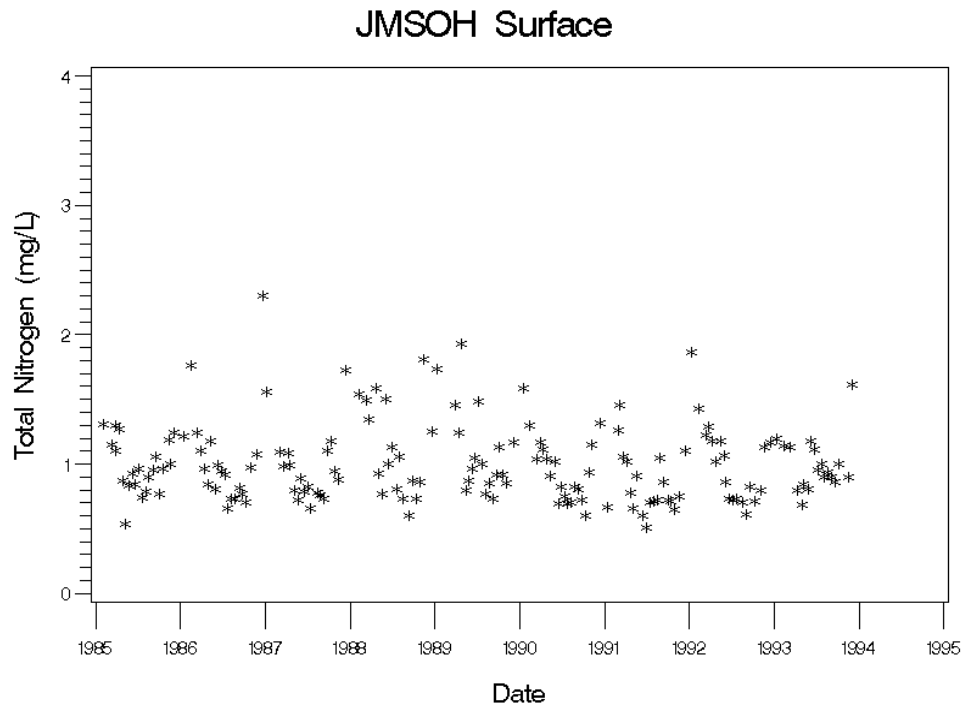


Figure 60. Scatterplot of bottom DO saturation at segment JMSTF2 during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

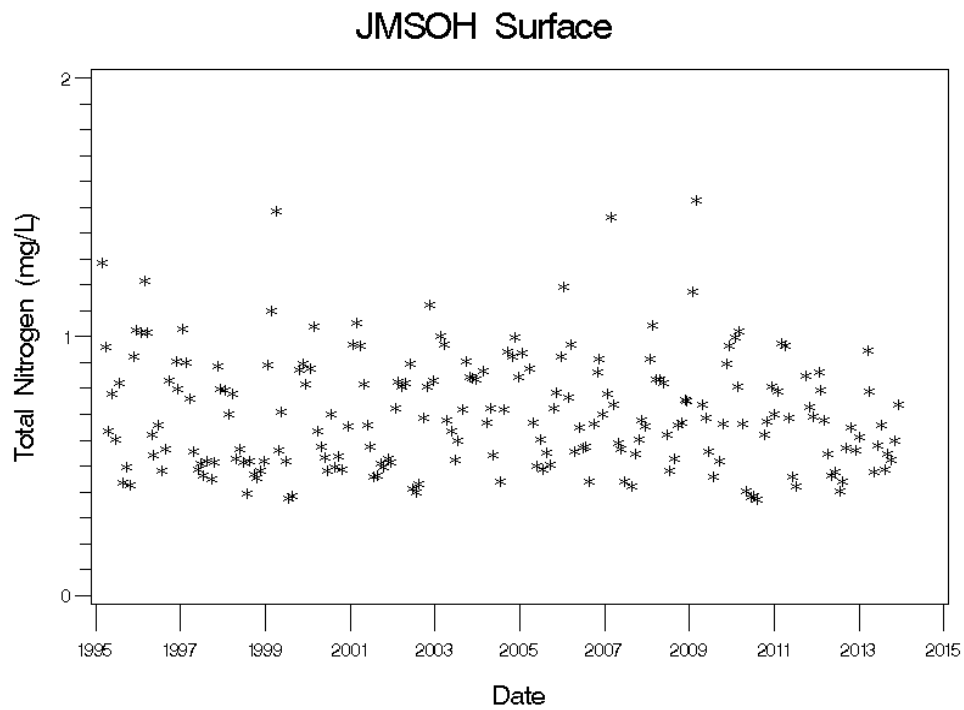
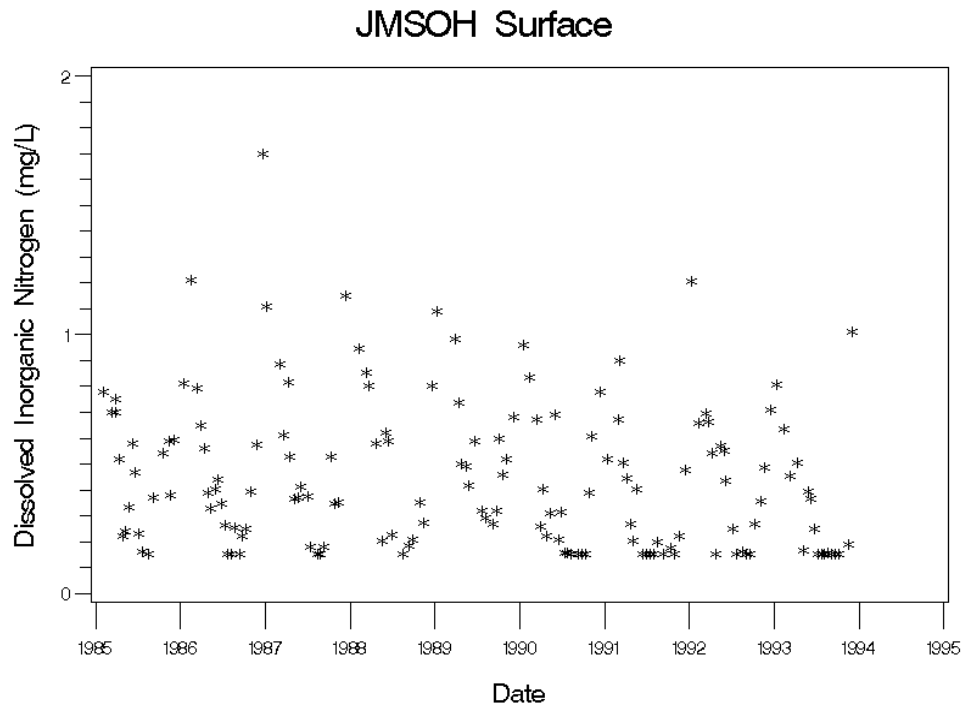


Figure 61. Scatterplots of surface total nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

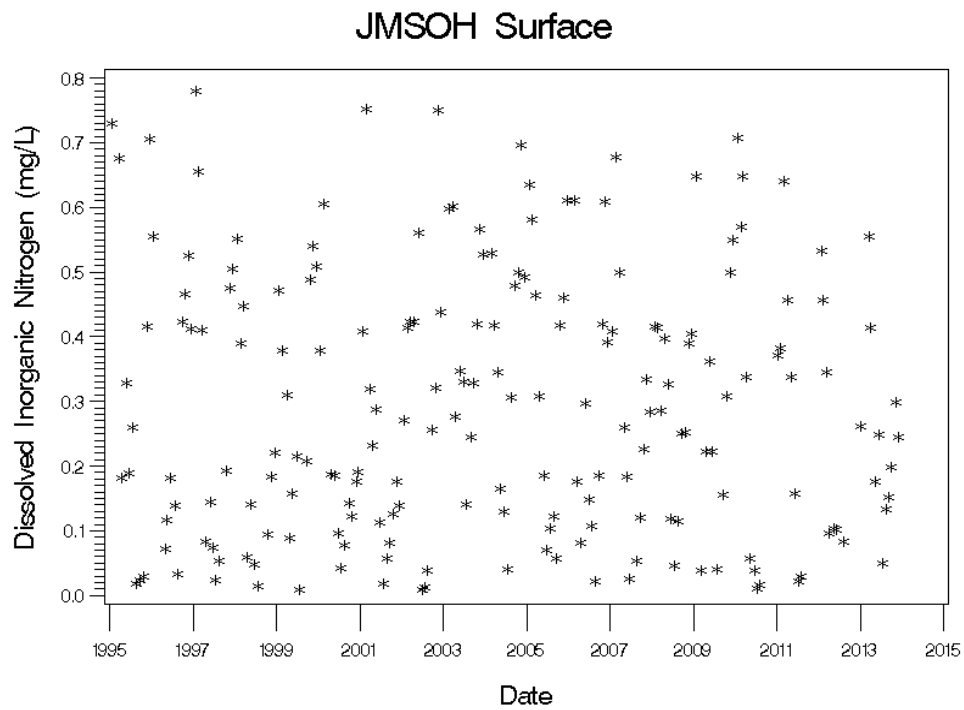
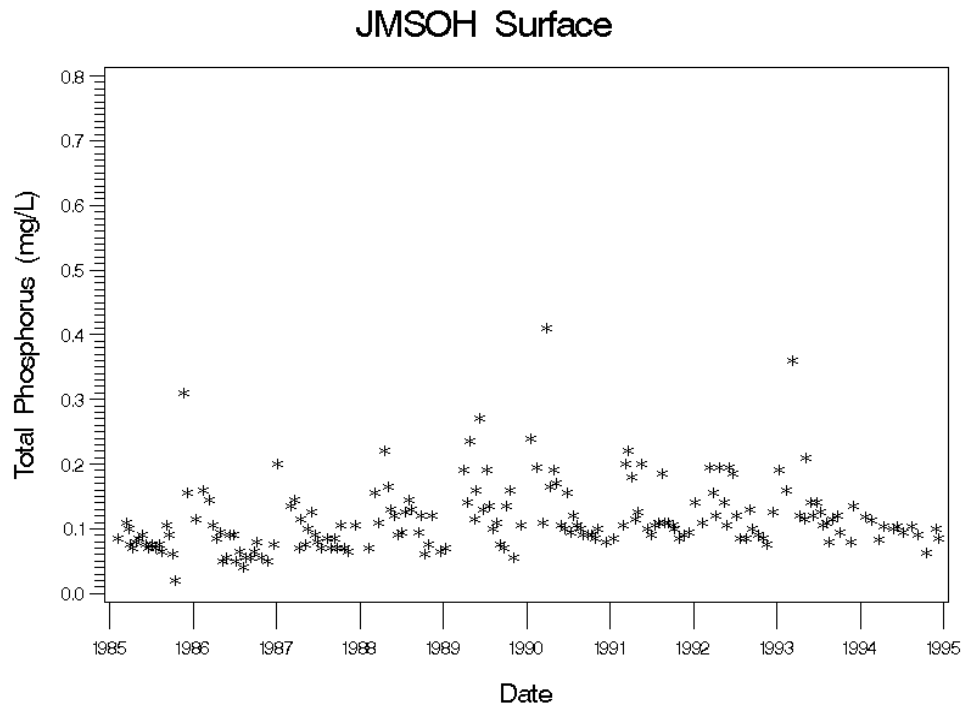


Figure 62. Scatterplots of surface dissolved inorganic nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

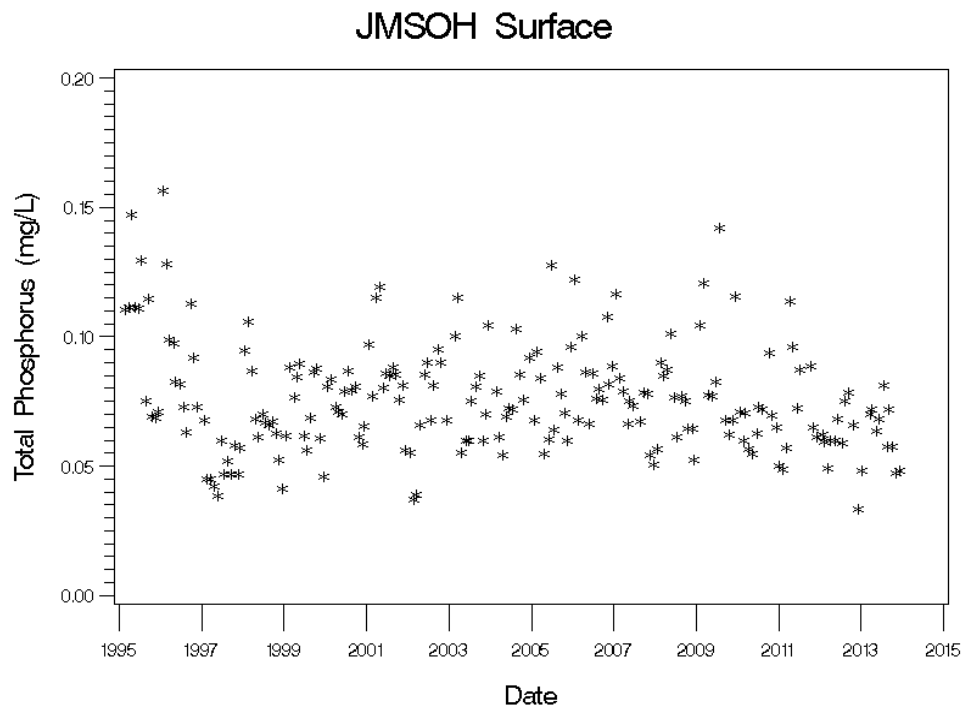
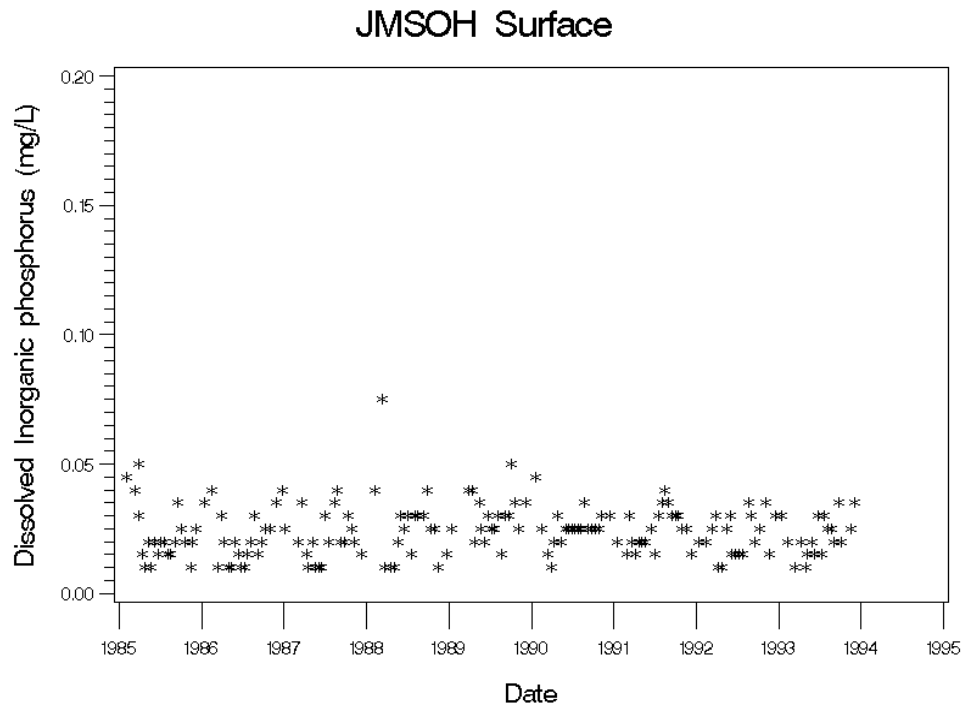


Figure 63. Scatterplots of surface total phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

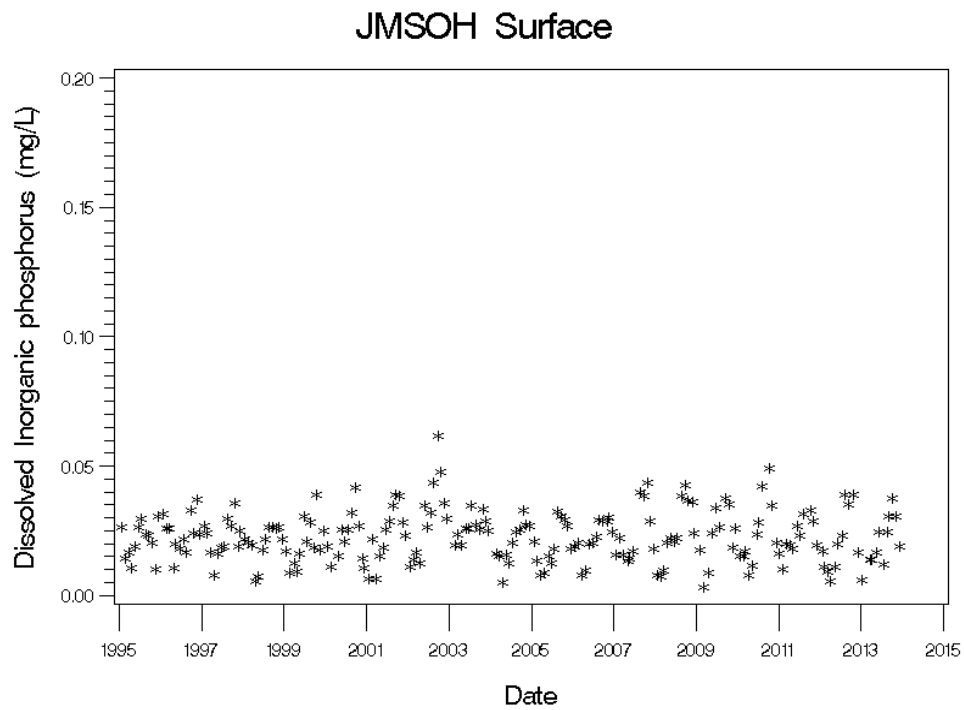


Figure 64. Scatterplots of surface dissolved inorganic phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

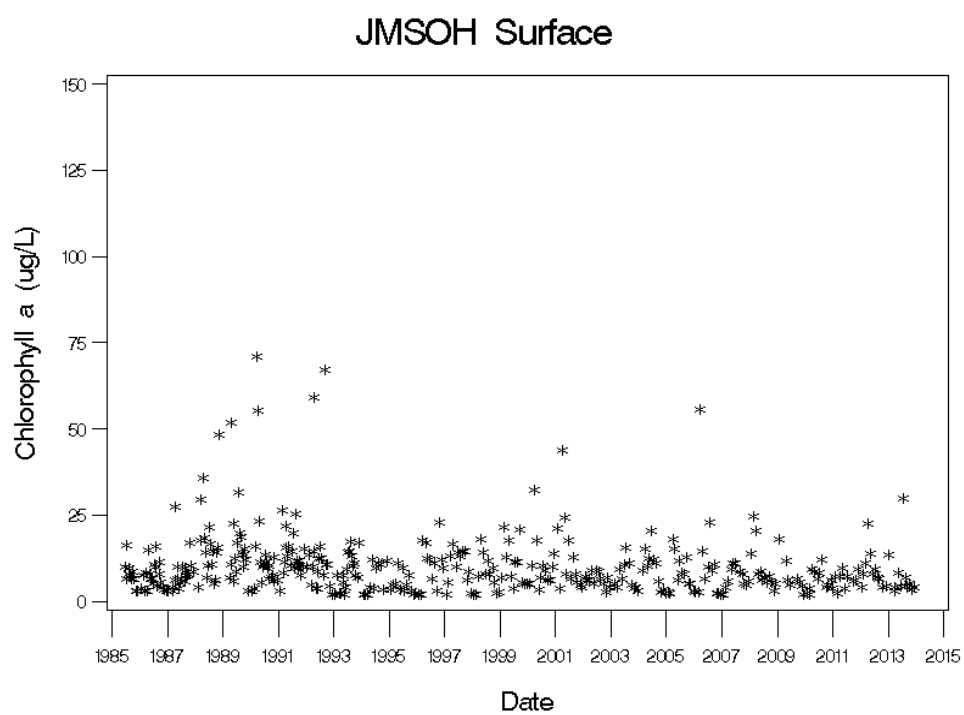


Figure 65. Scatterplot of surface chlorophyll a at segment JMSOH during the period 1985 to 2013.

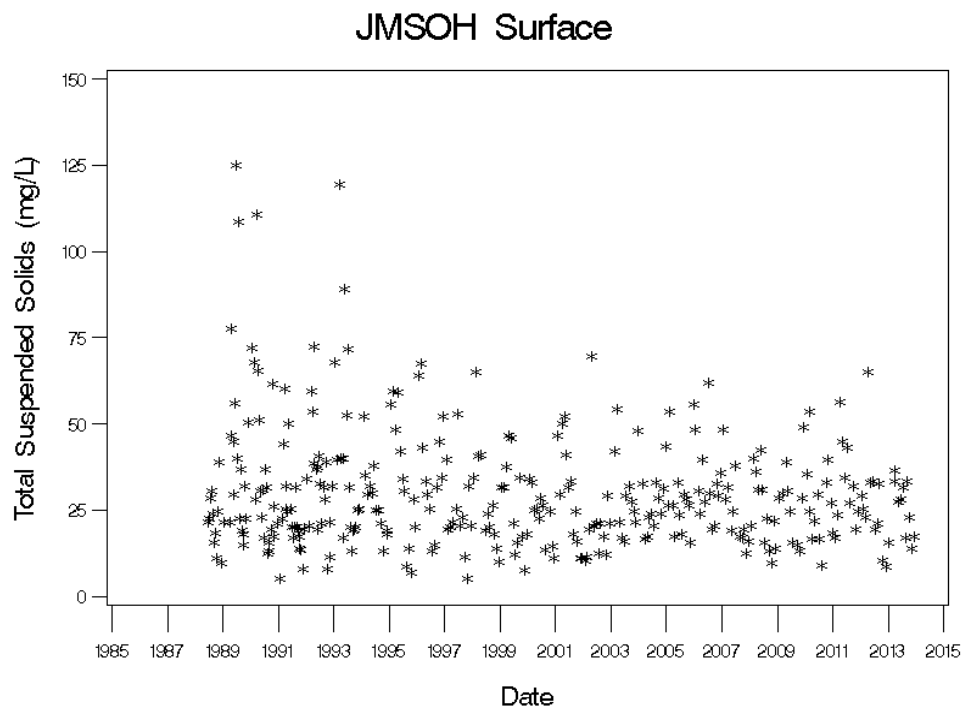


Figure 66. Scatterplot of surface total suspended solids at segment JMSOH during the period 1985 to 2013.

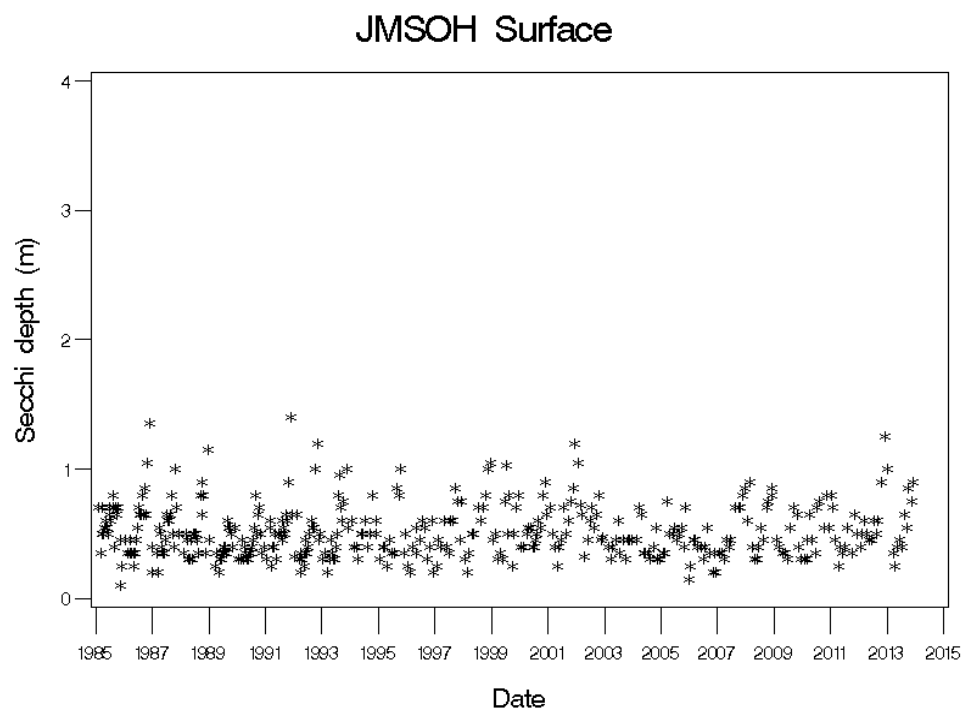


Figure 67. Scatterplot of secchi depth at segment JMSOH during the period 1985 to 2013.

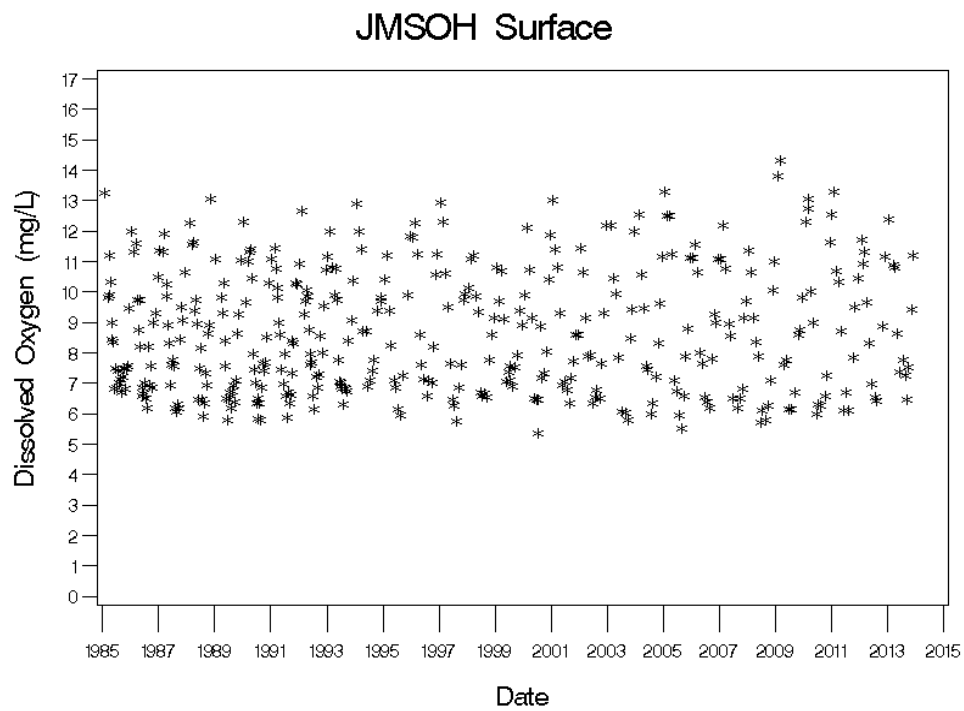


Figure 68. Scatterplot of surface dissolved oxygen at segment JMSOH during the period 1985 to 2013.

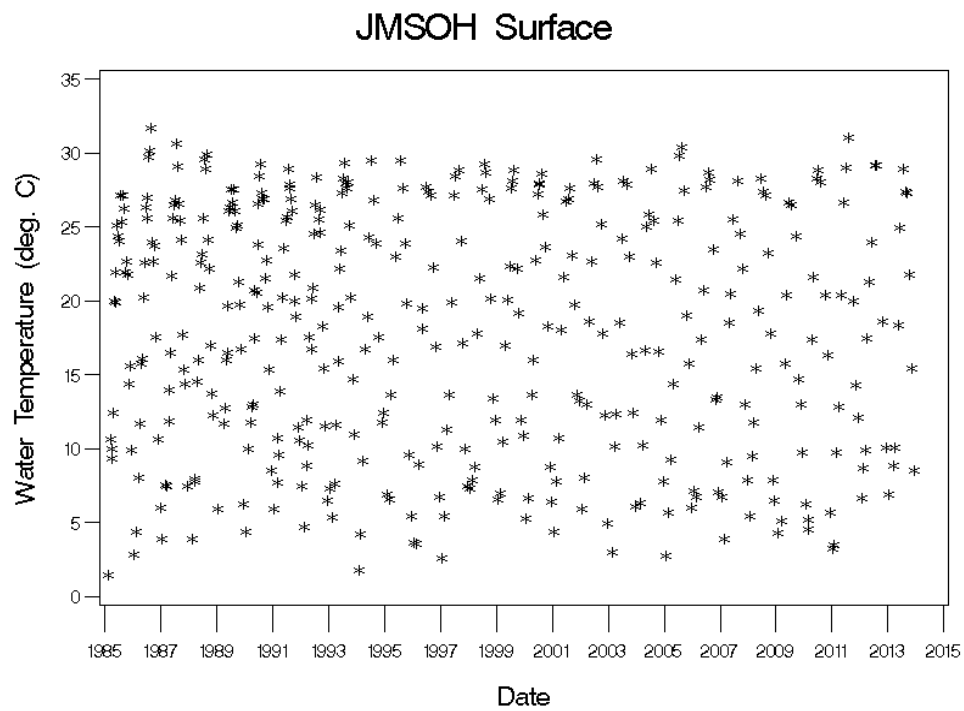


Figure 69. Scatterplot of surface water temperature at segment JMSOH during the period 1985 to 2013.

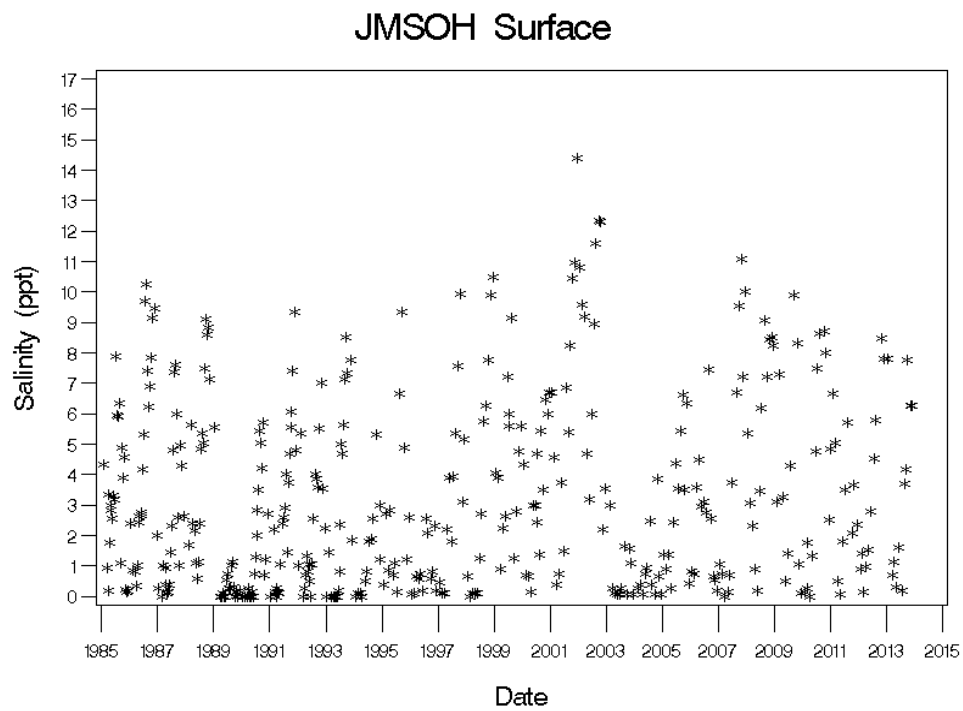


Figure 70. Scatterplot of surface salinity at segment JMSOH during the period 1985 to 2013.

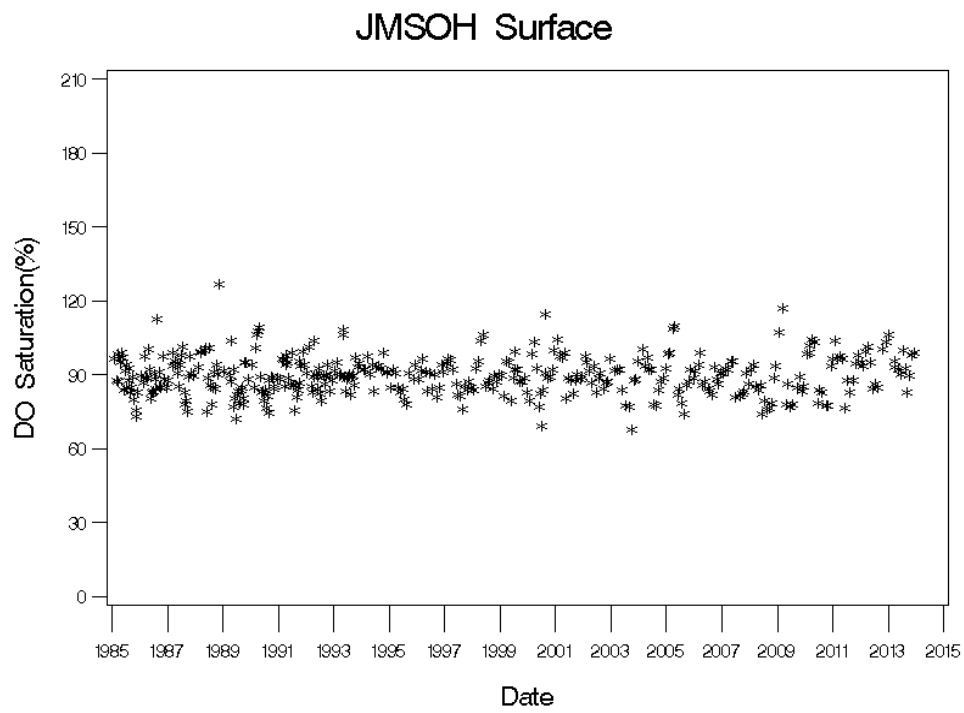
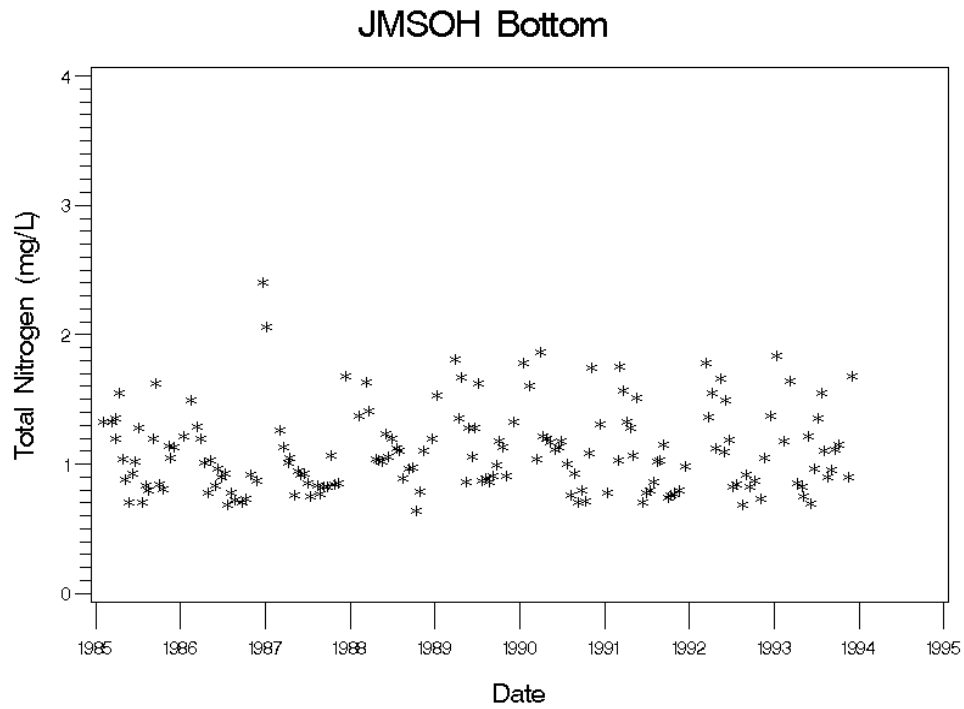


Figure 71. Scatterplot of surface DO saturation at segment JMSOH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

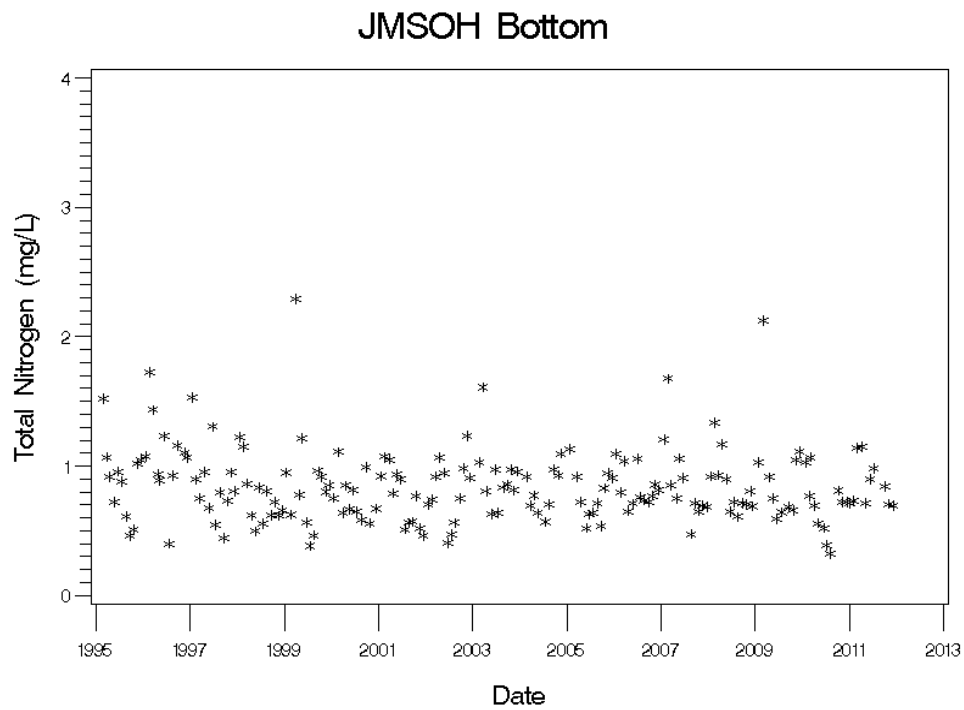
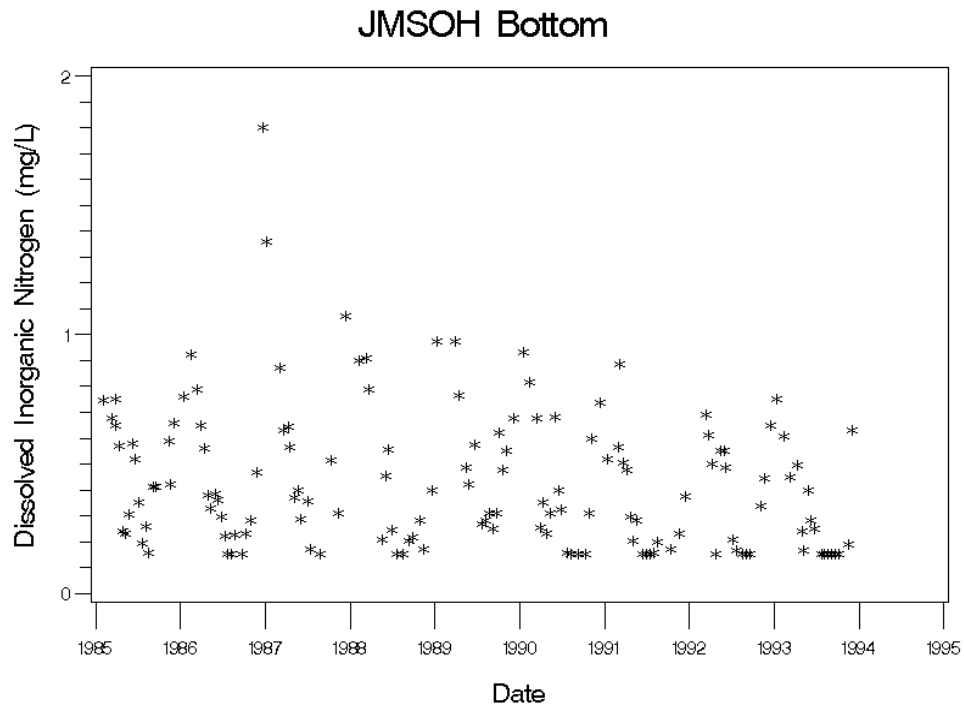


Figure 72. Scatterplots of bottom total nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

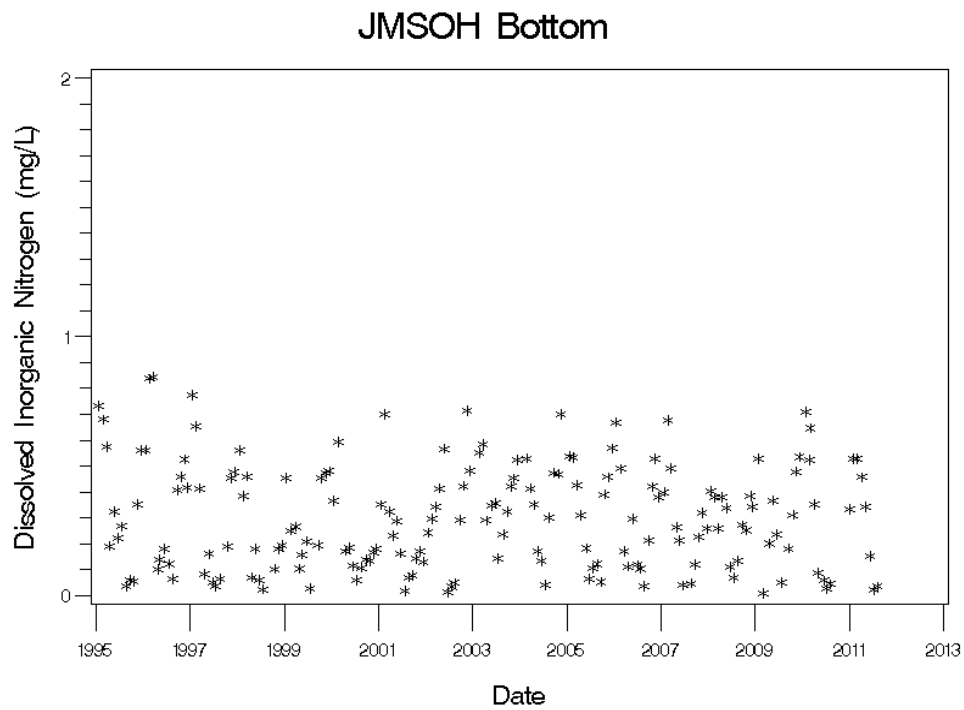
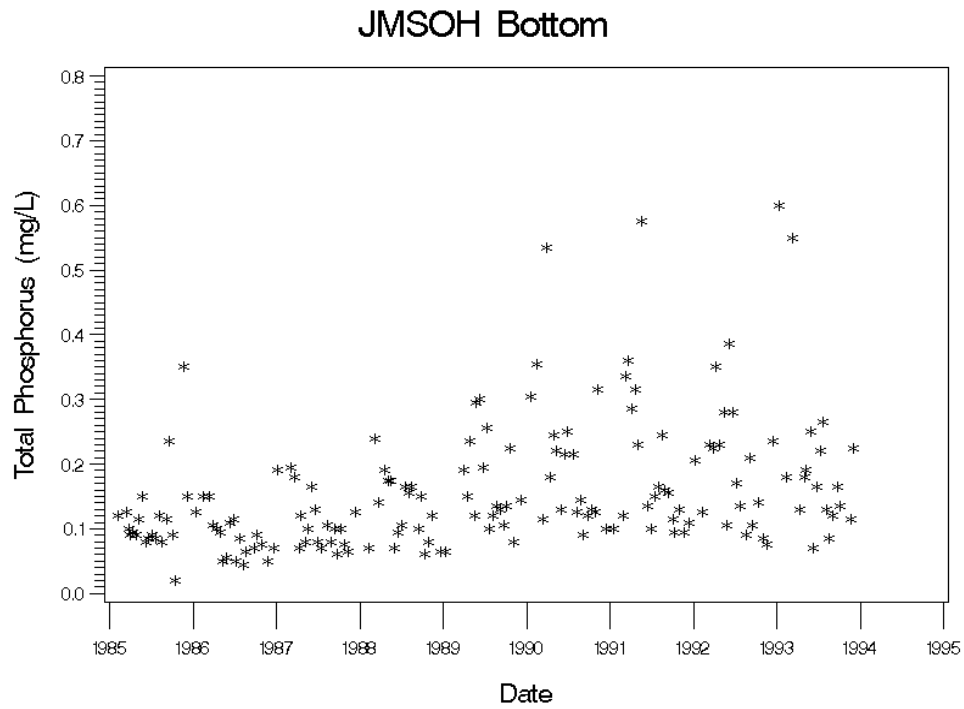


Figure 73. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

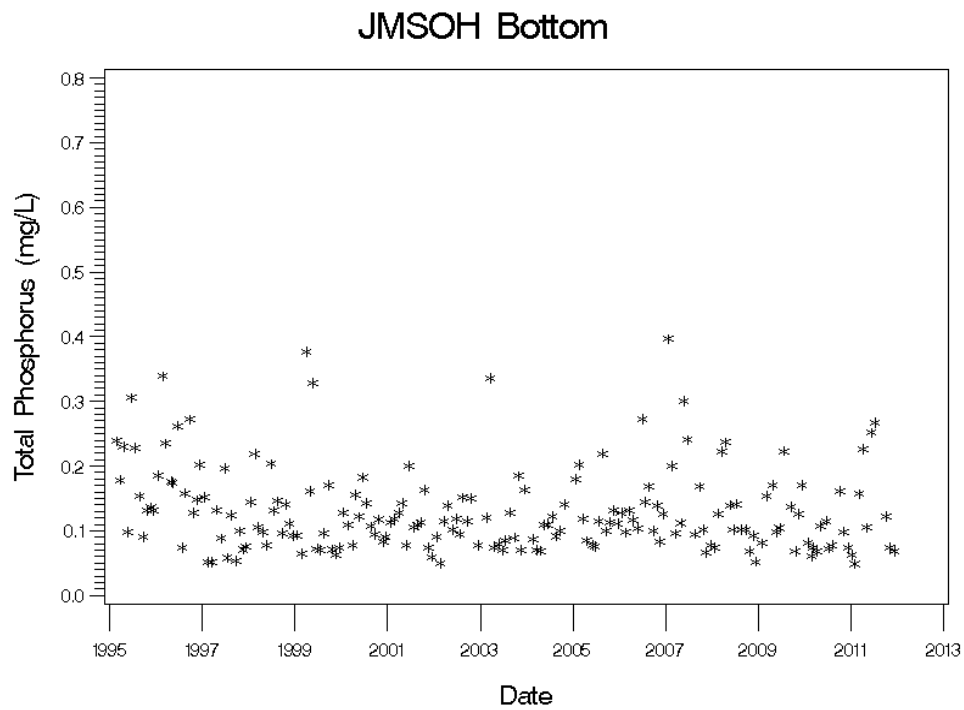
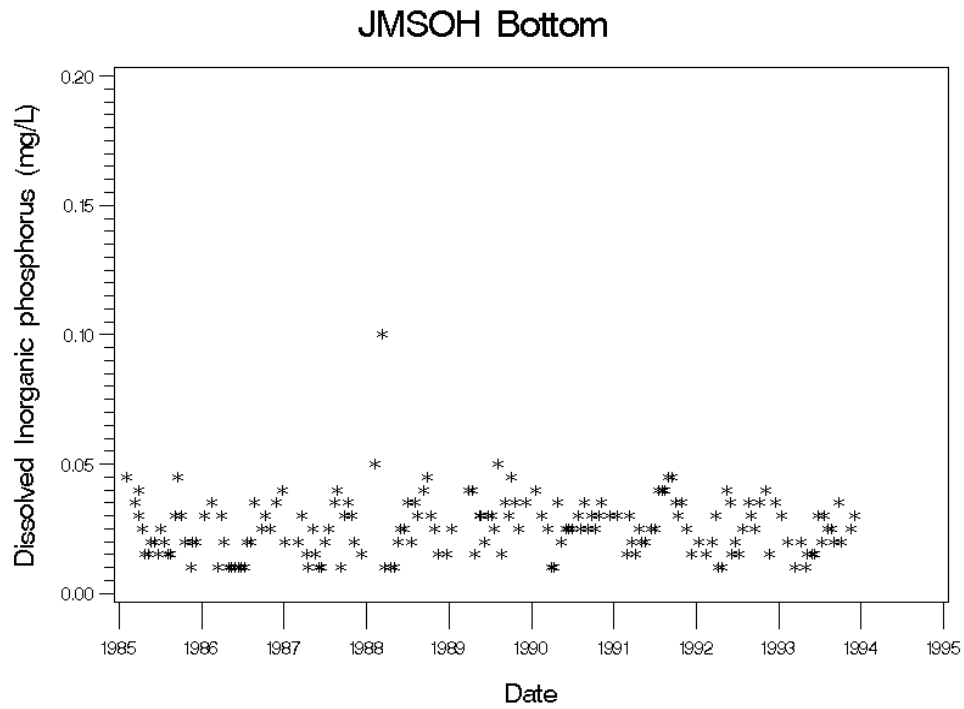


Figure 74. Scatterplots of bottom total phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

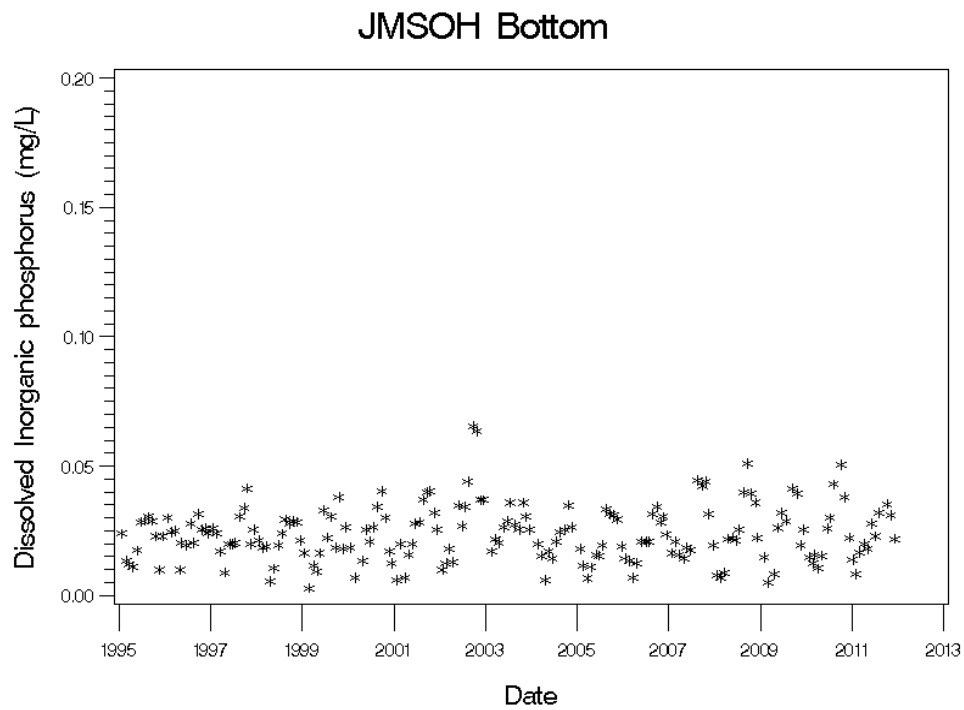


Figure 75. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

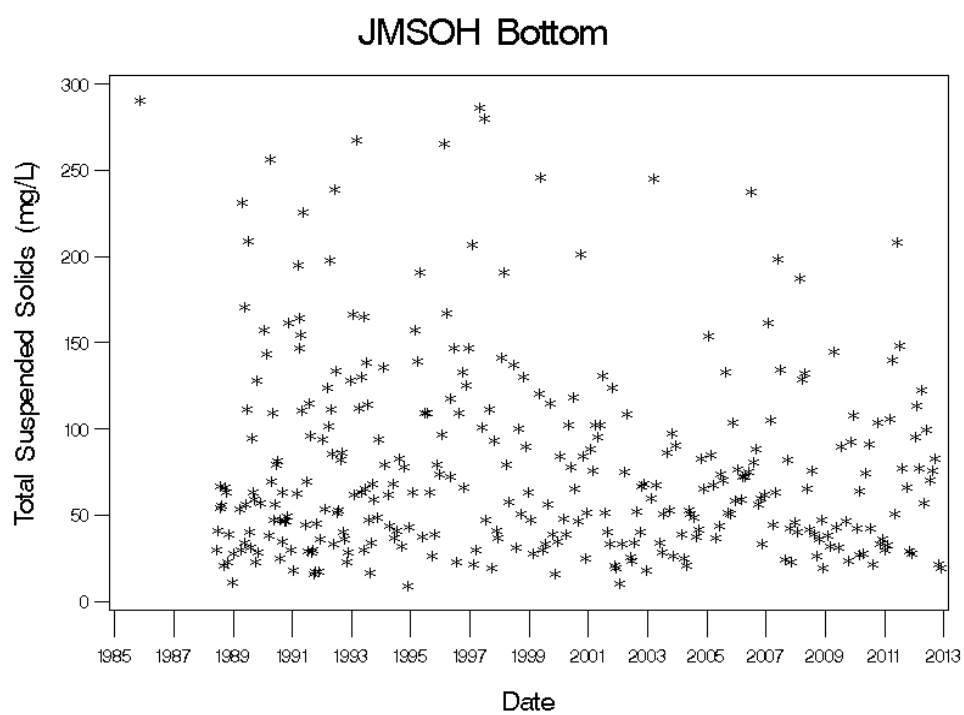


Figure 76. Scatterplot of bottom total suspended solids at segment JMSOH during the period 1985 to 2013.

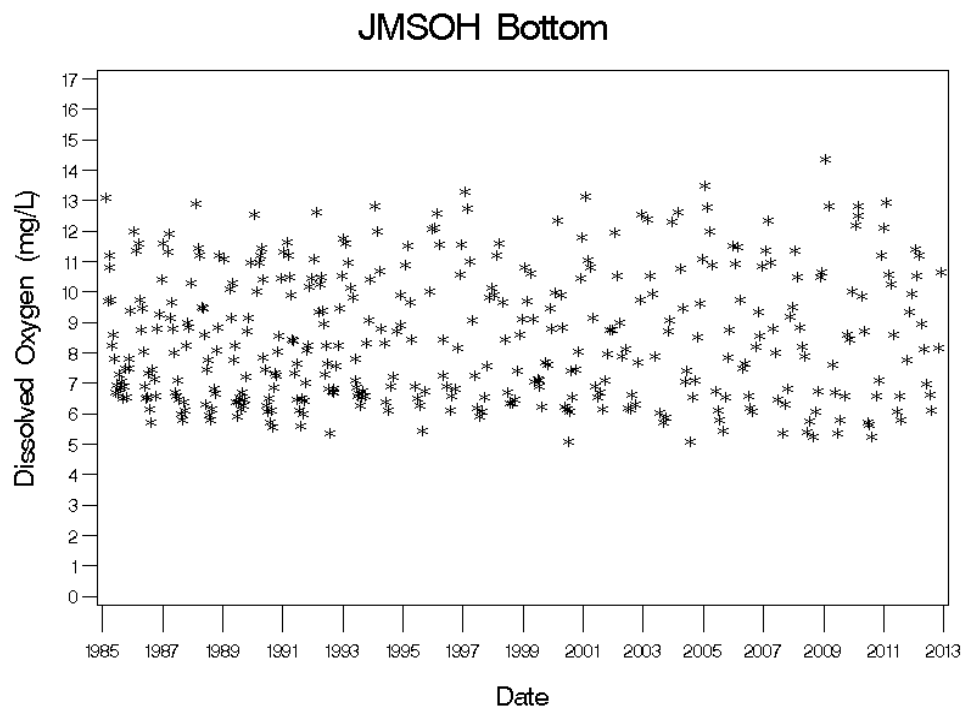


Figure 77. Scatterplot of bottom dissolved oxygen at segment JMSOH during the period 1985 to 2013.

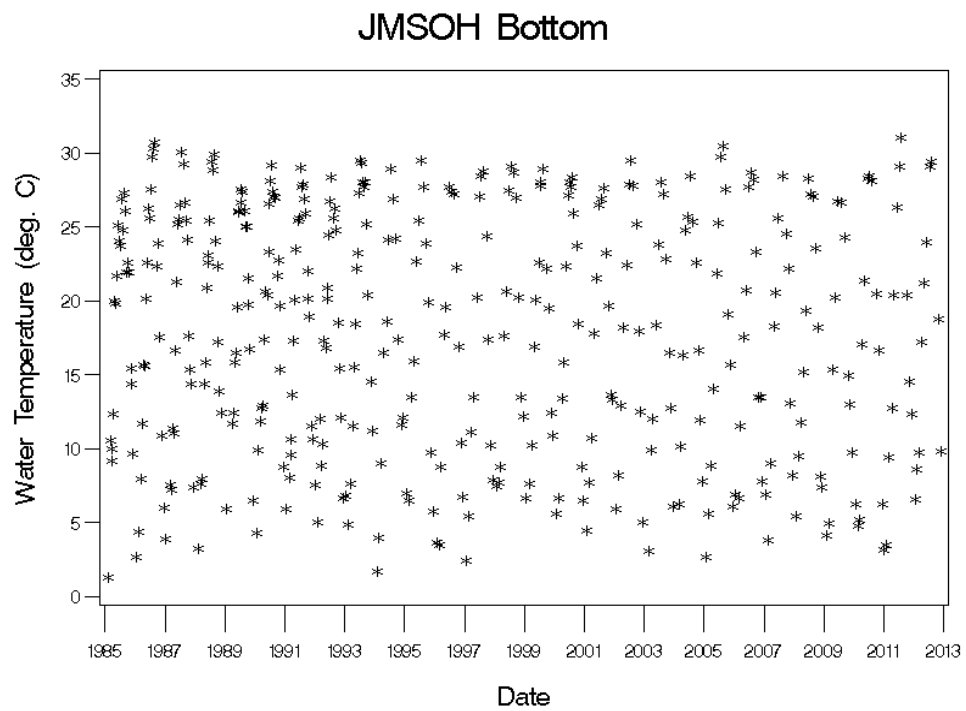


Figure 78. Scatterplot of bottom water temperature at segment JMSOH during the period 1985 to 2013.

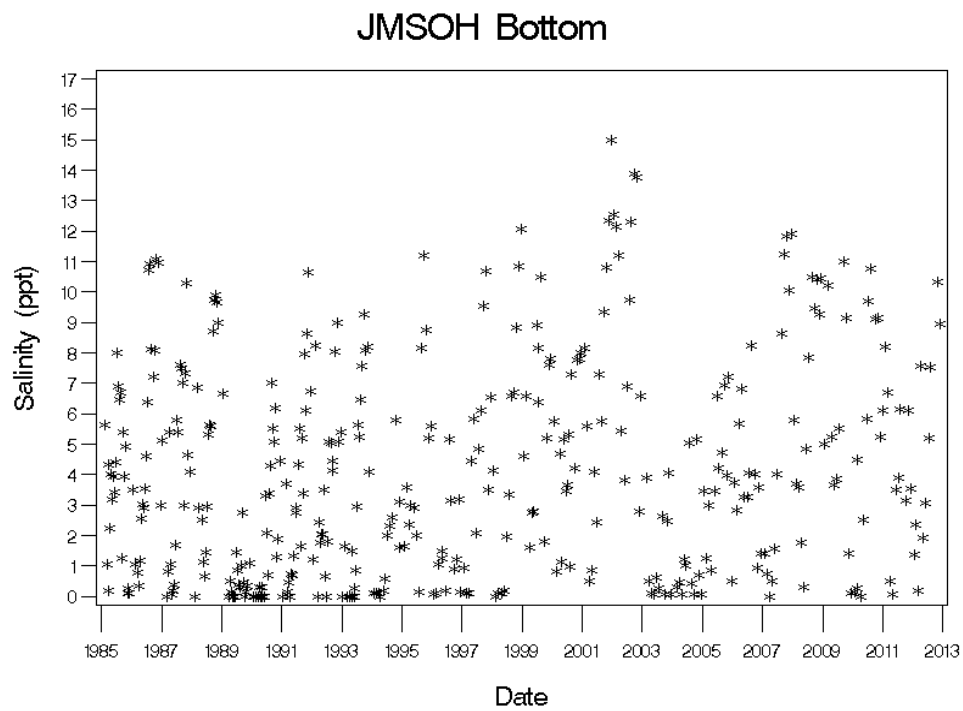


Figure 79. Scatterplot of bottom salinity at segment JMSOH during the period 1985 to 2013.

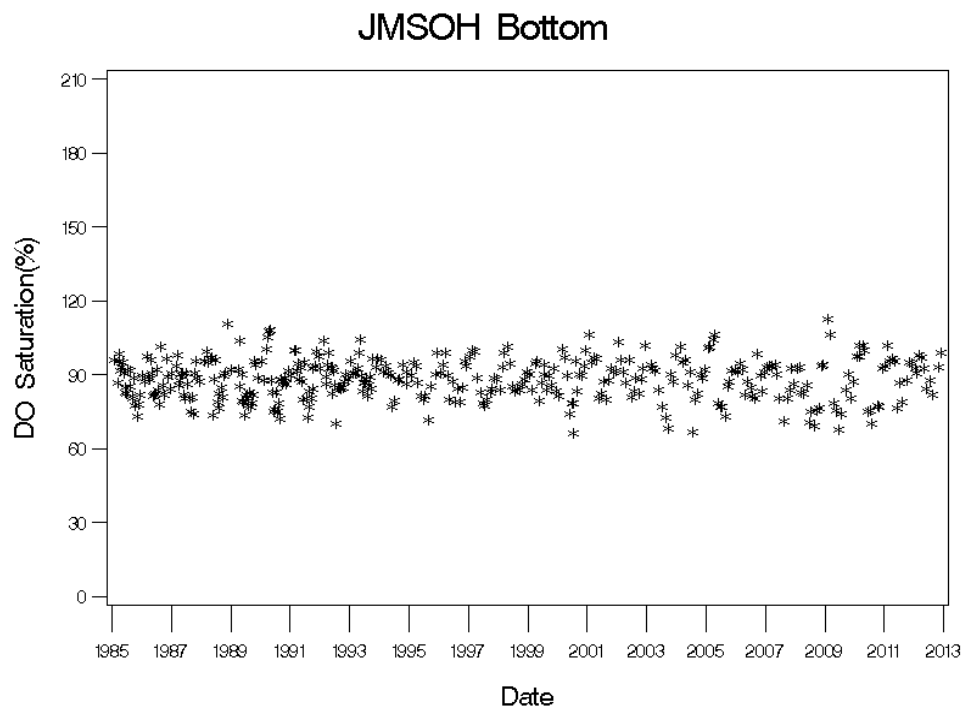
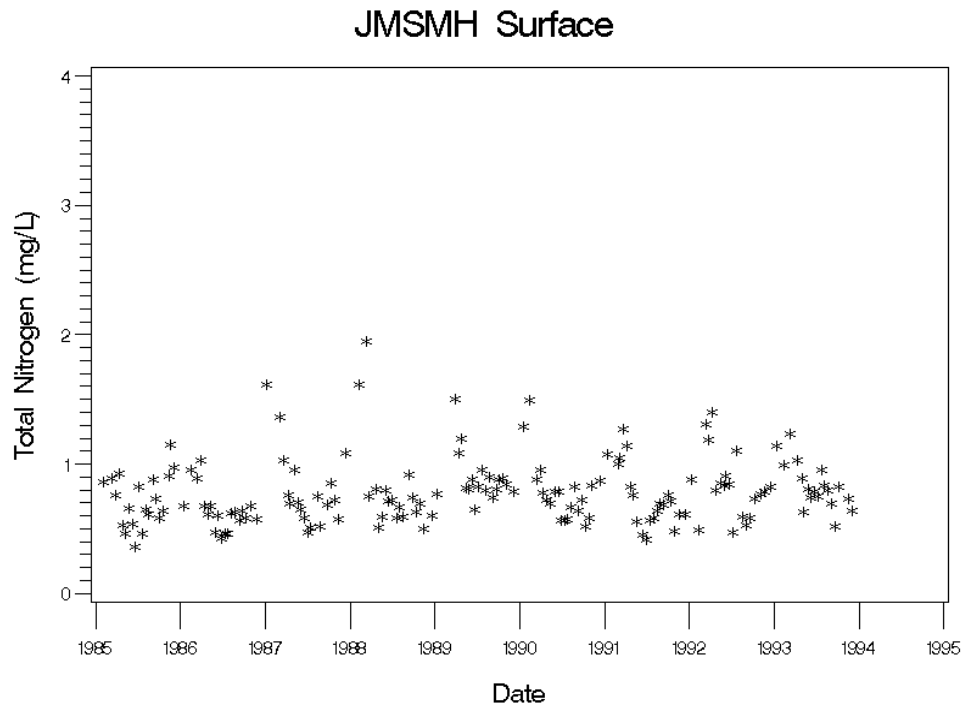


Figure 80. Scatterplot of bottom DO saturation at segment JMSOH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

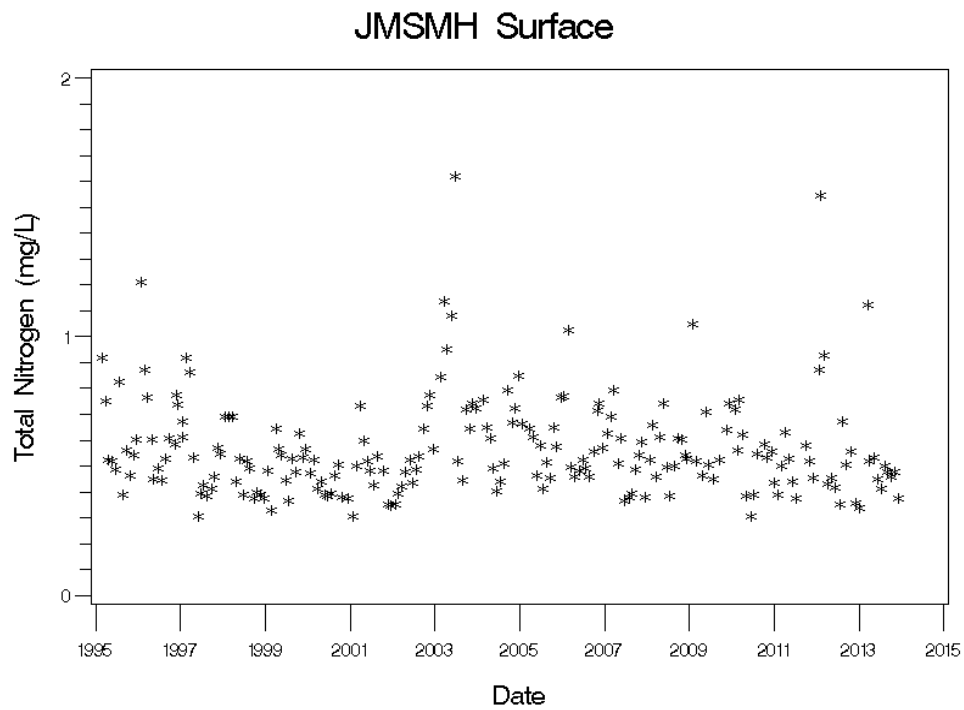
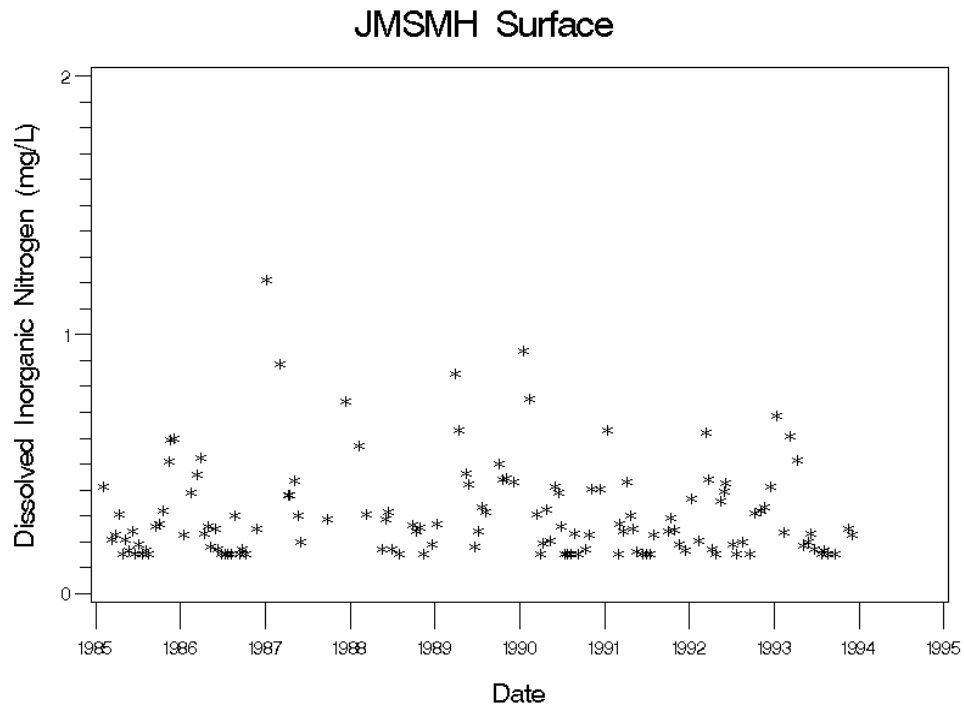


Figure 81. Scatterplots of surface total nitrogen at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

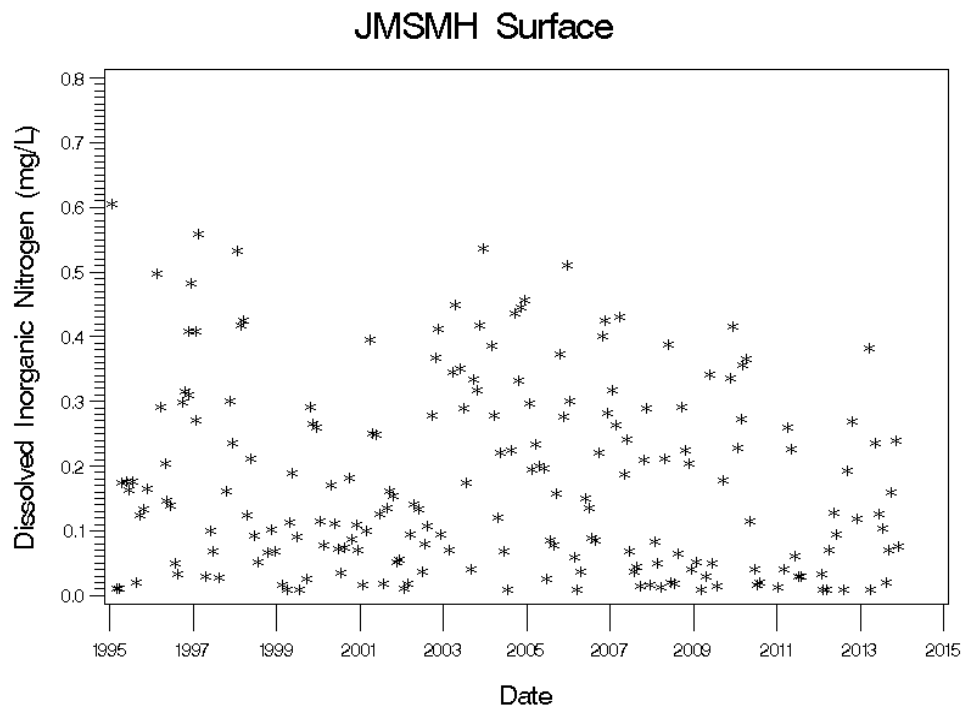
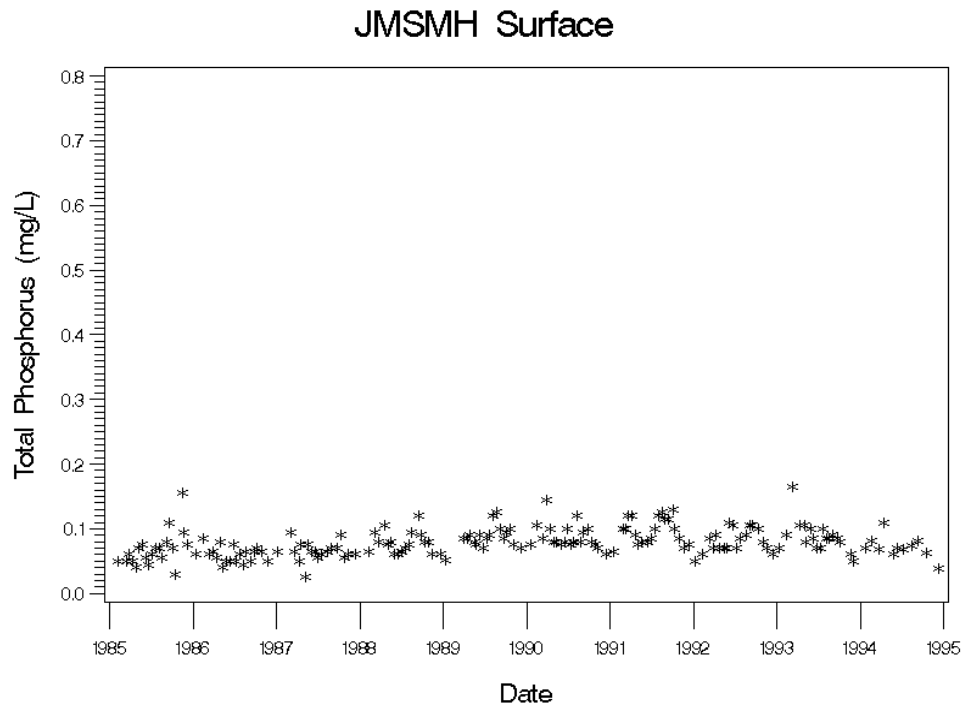


Figure 82. Scatterplots of surface dissolved inorganic nitrogen at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

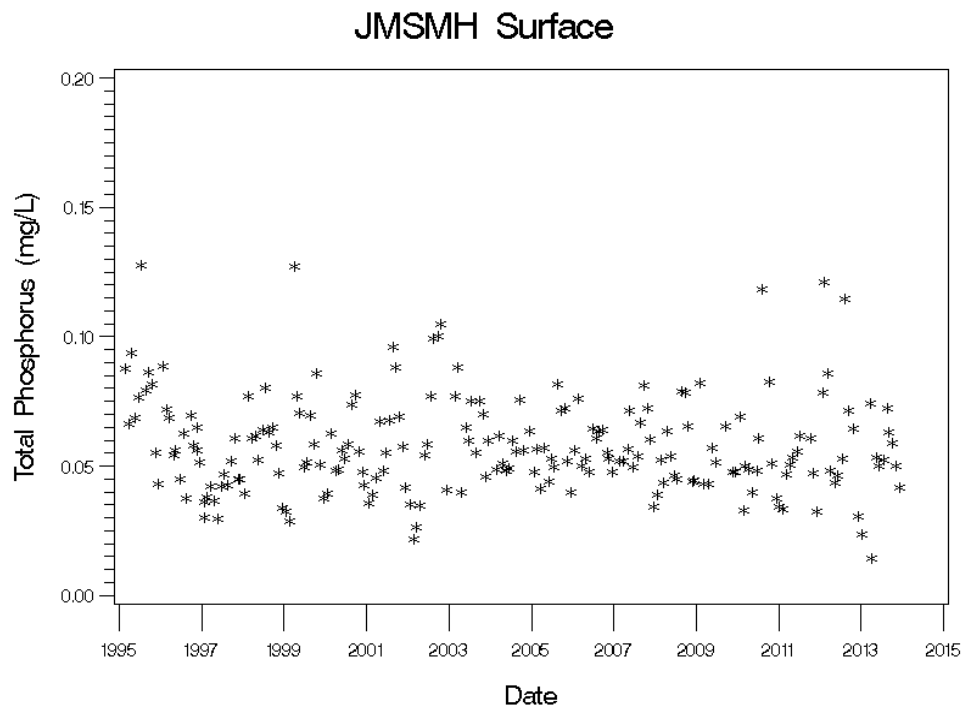
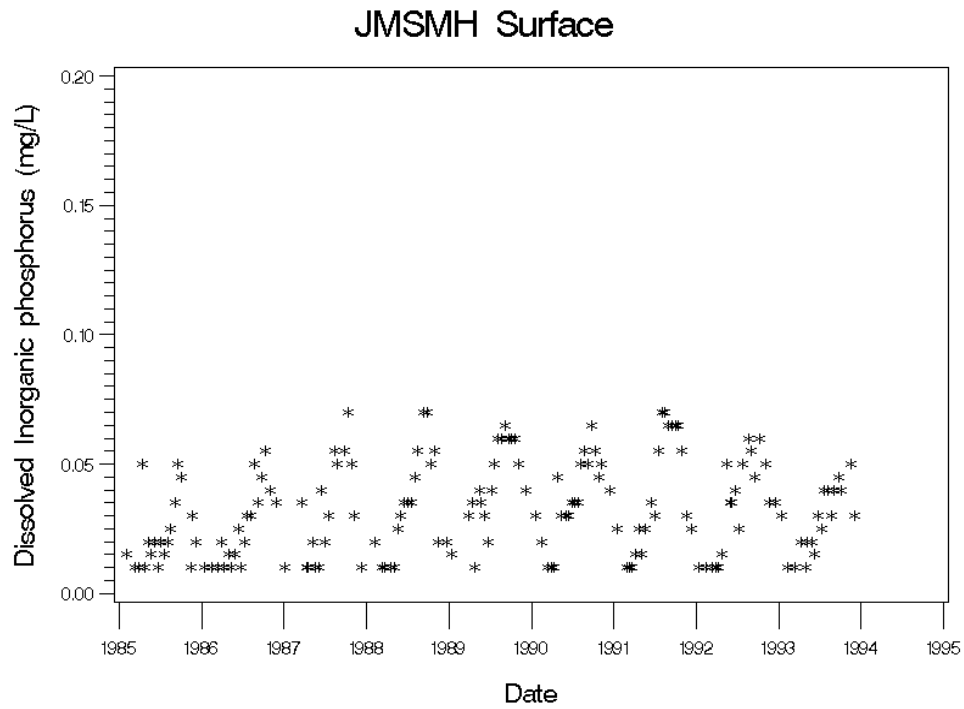


Figure 83. Scatterplots of surface total phosphorus at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

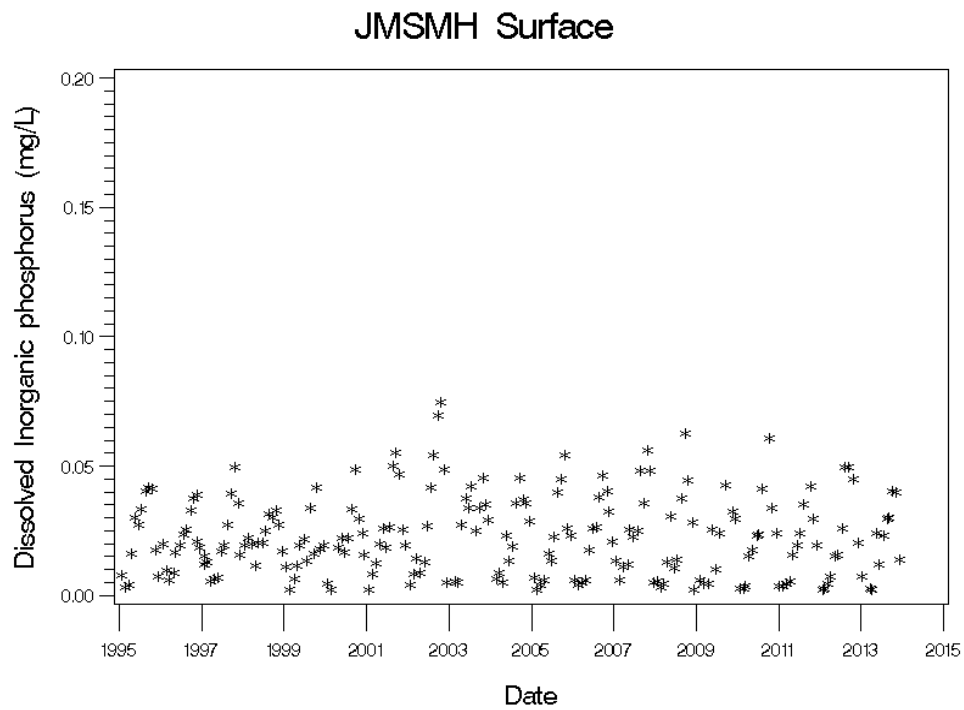


Figure 84. Scatterplots of surface dissolved inorganic phosphorus at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

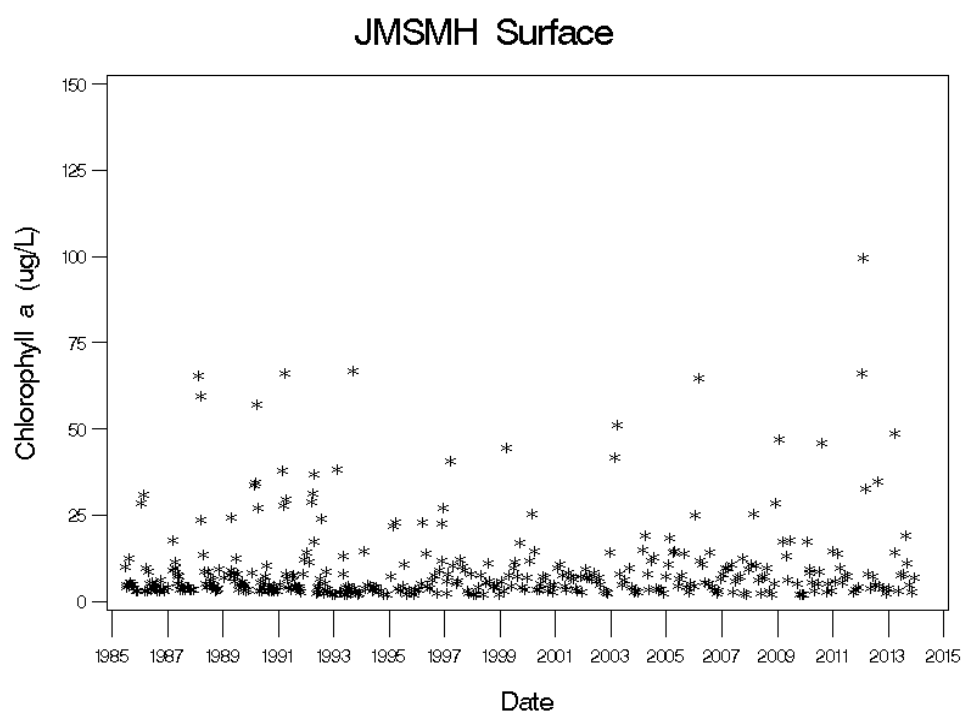


Figure 85. Scatterplot of surface chlorophyll a at segment JMSMH during the period 1985 to 2013.

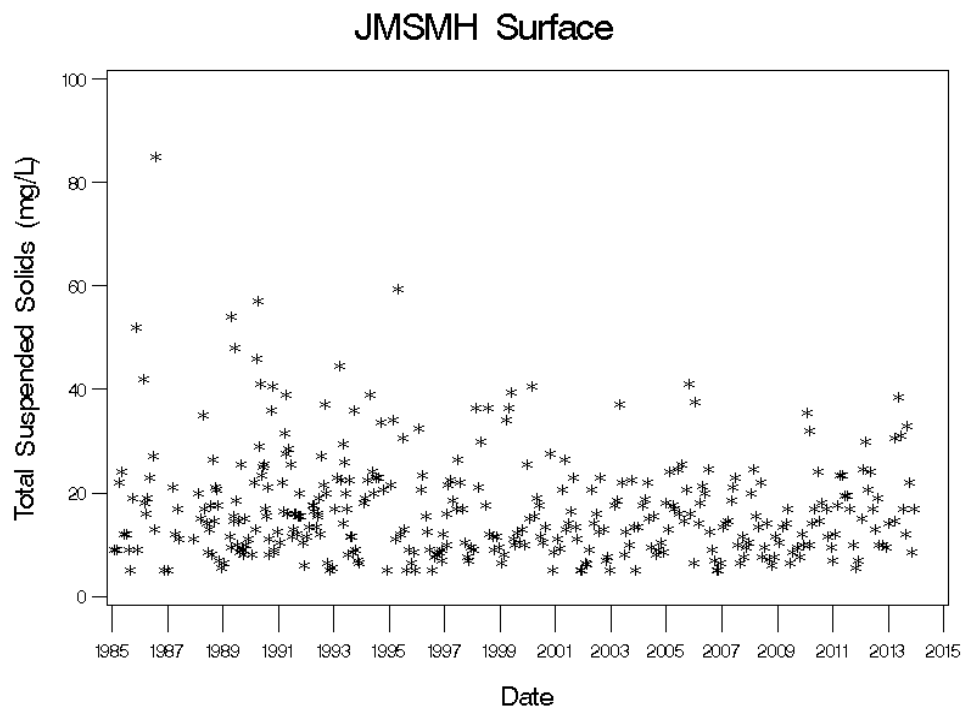


Figure 86. Scatterplot of surface total suspended solids at segment JMSMH during the period 1985 to 2013.

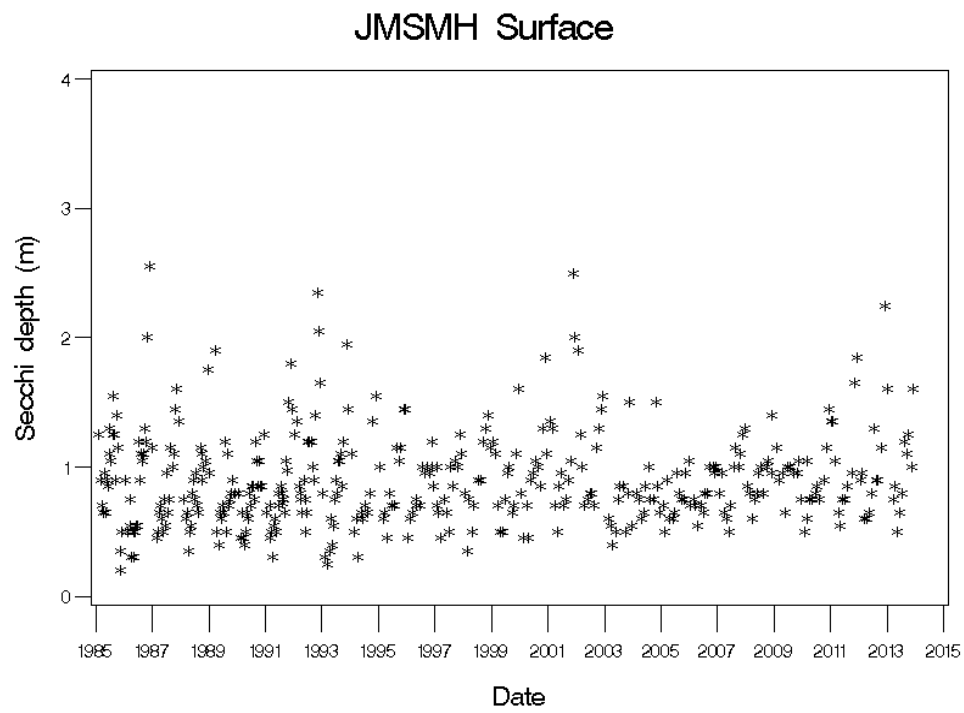


Figure 87. Scatterplot of secchi depth at segment JMSMH during the period 1985 to 2013.

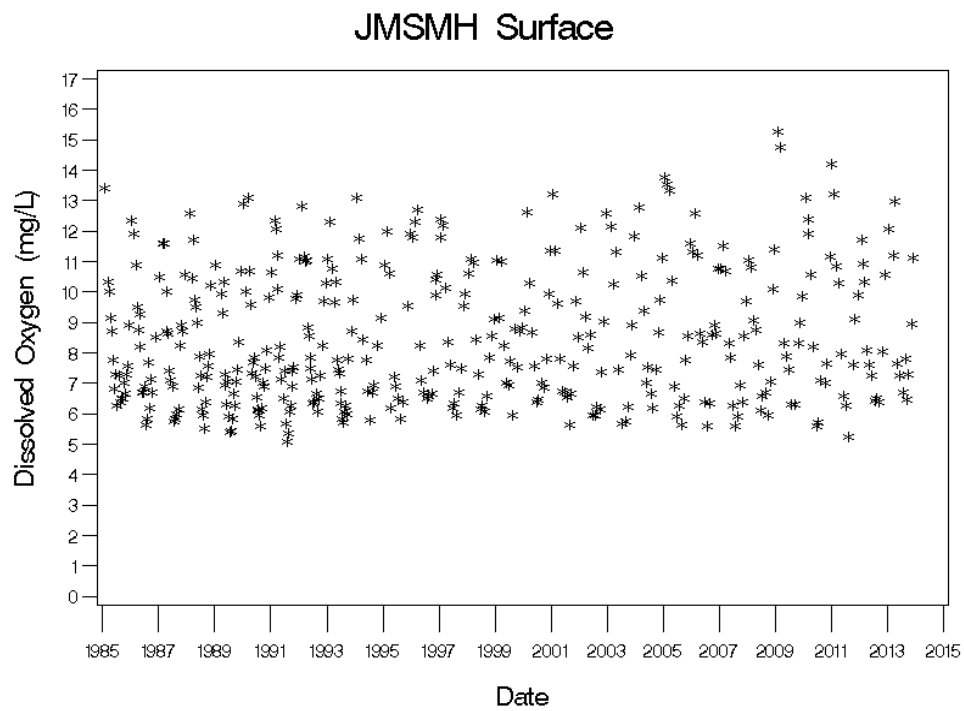


Figure 88. Scatterplot of surface dissolved oxygen at segment JMSMH during the period 1985 to 2013.

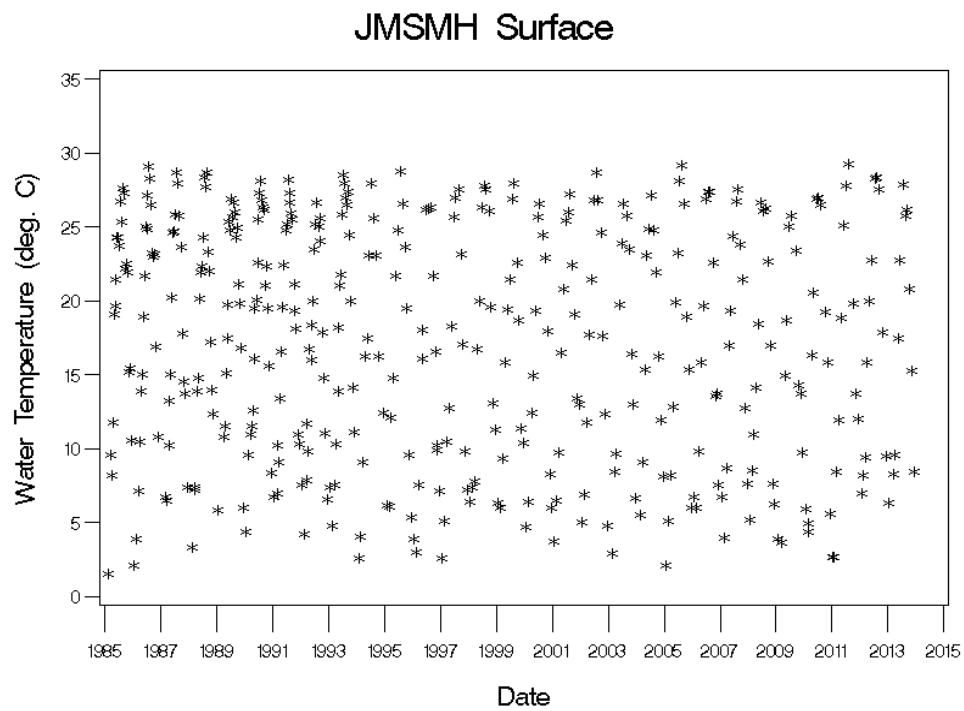


Figure 89. Scatterplot of surface water temperature at segment JMSMH during the period 1985 to 2013.

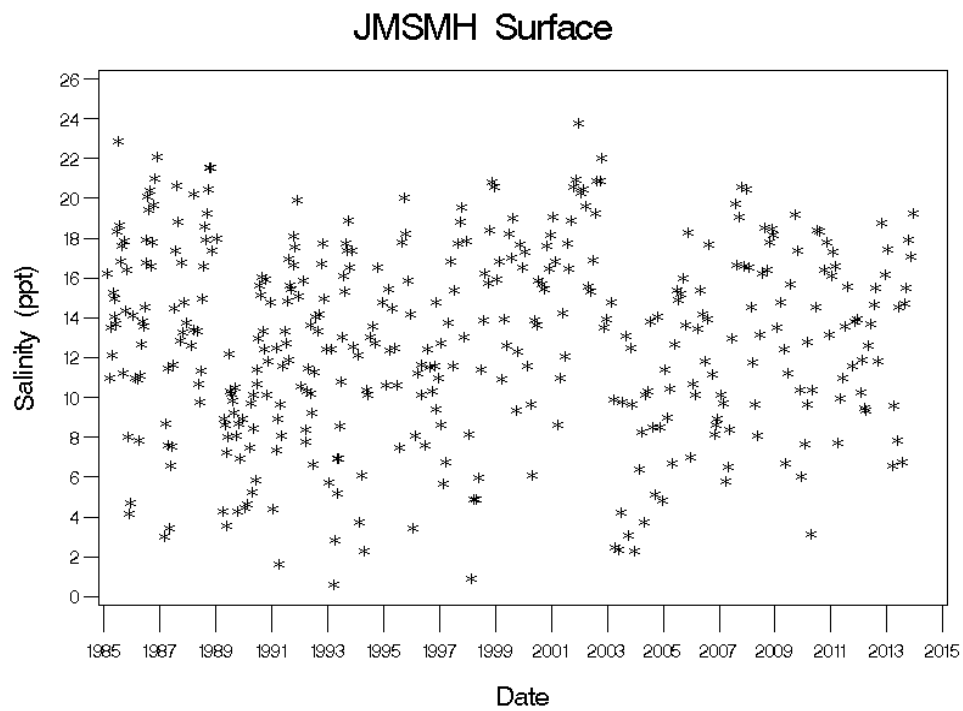


Figure 90. Scatterplot of surface salinity at segment JMSMH during the period 1985 to 2013.

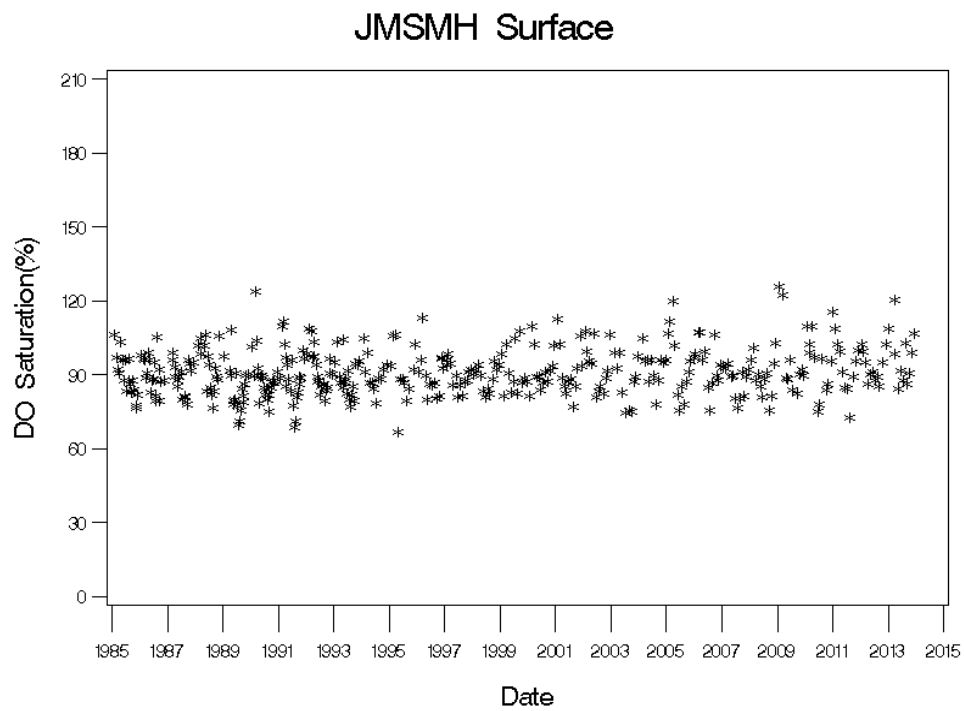
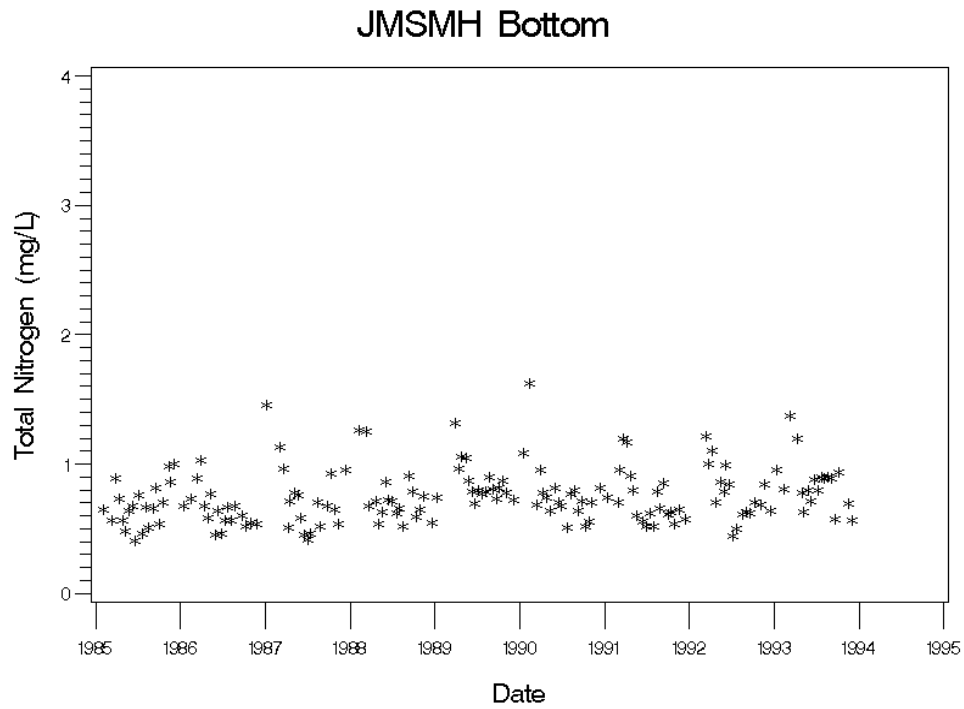


Figure 91. Scatterplot of surface DO saturation at segment JMSMH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

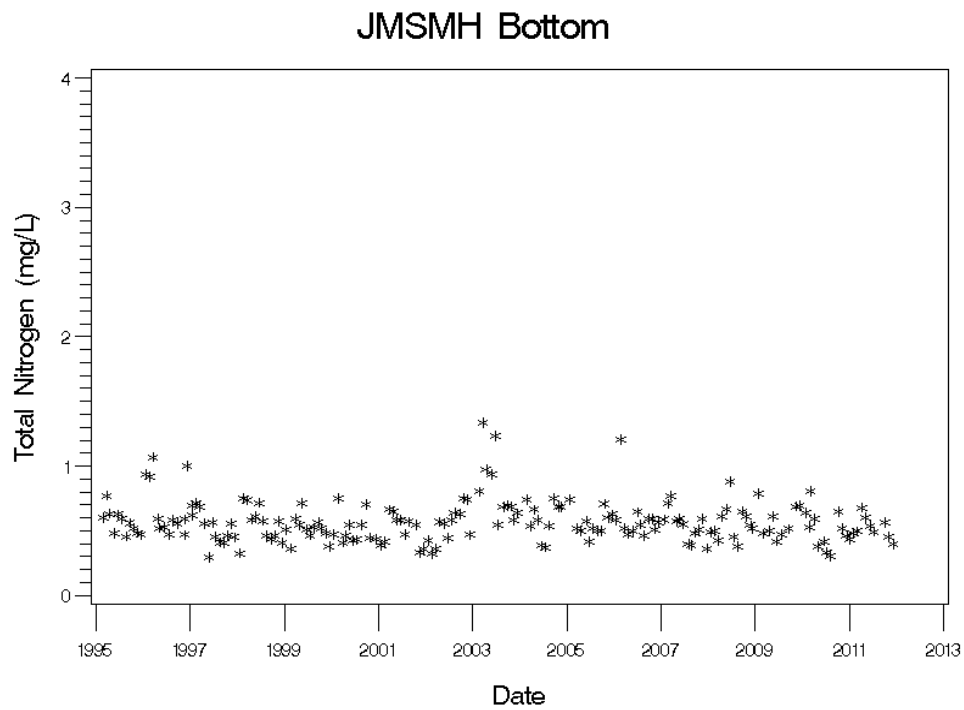
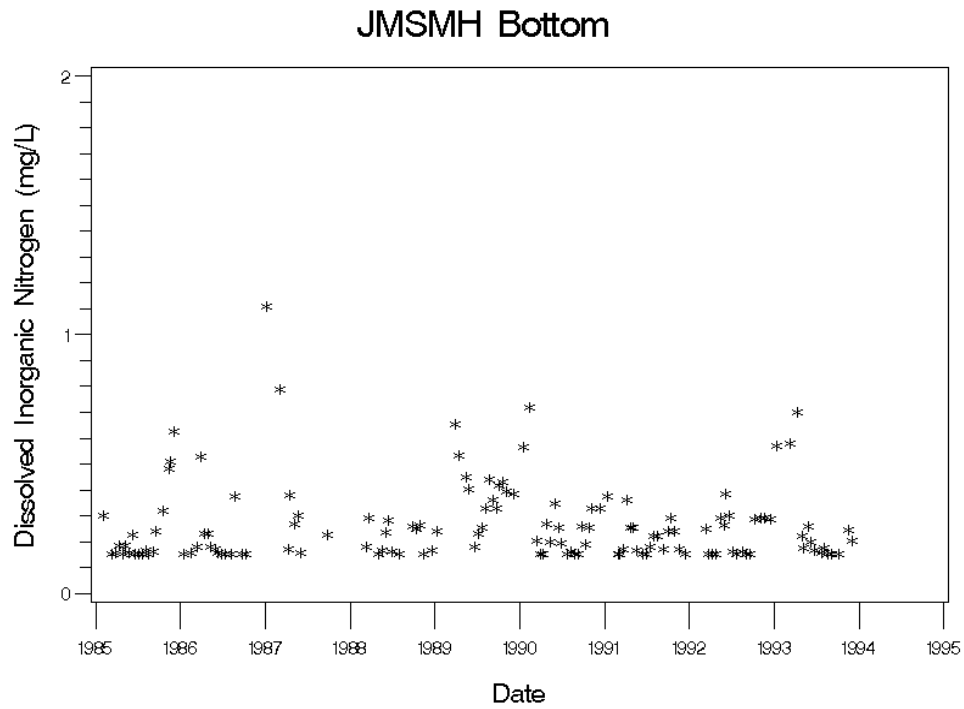


Figure 92. Scatterplots of bottom total nitrogen at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

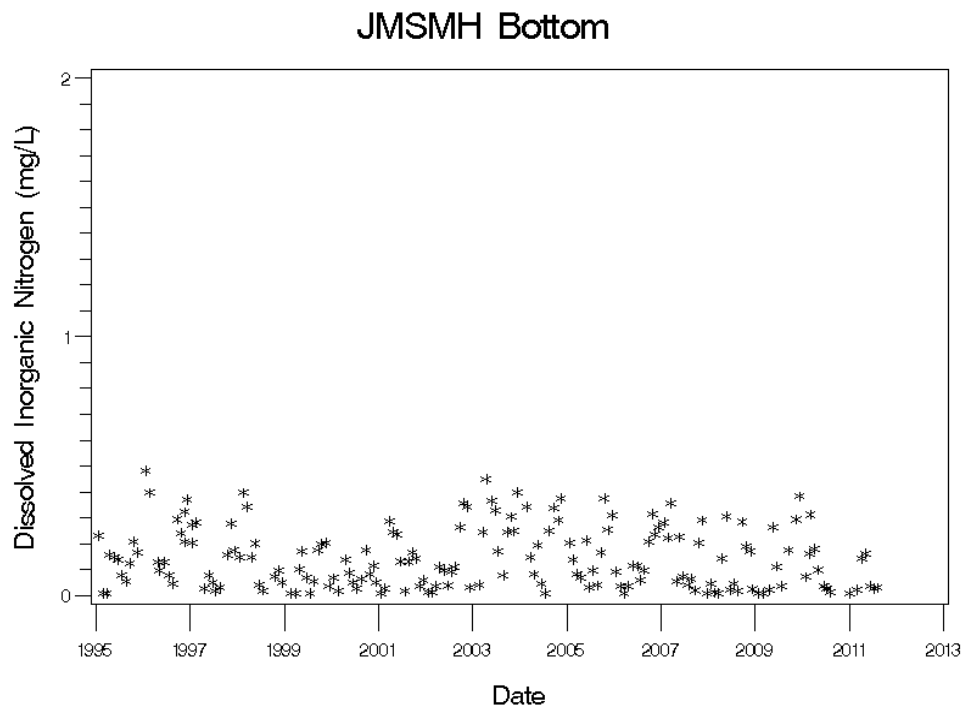
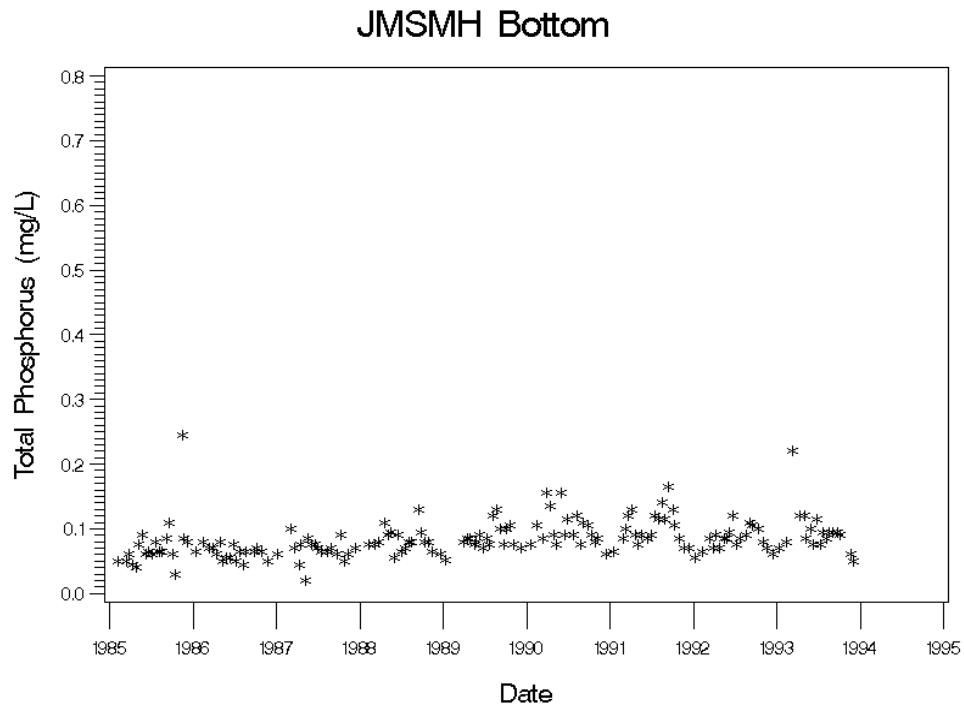


Figure 93. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

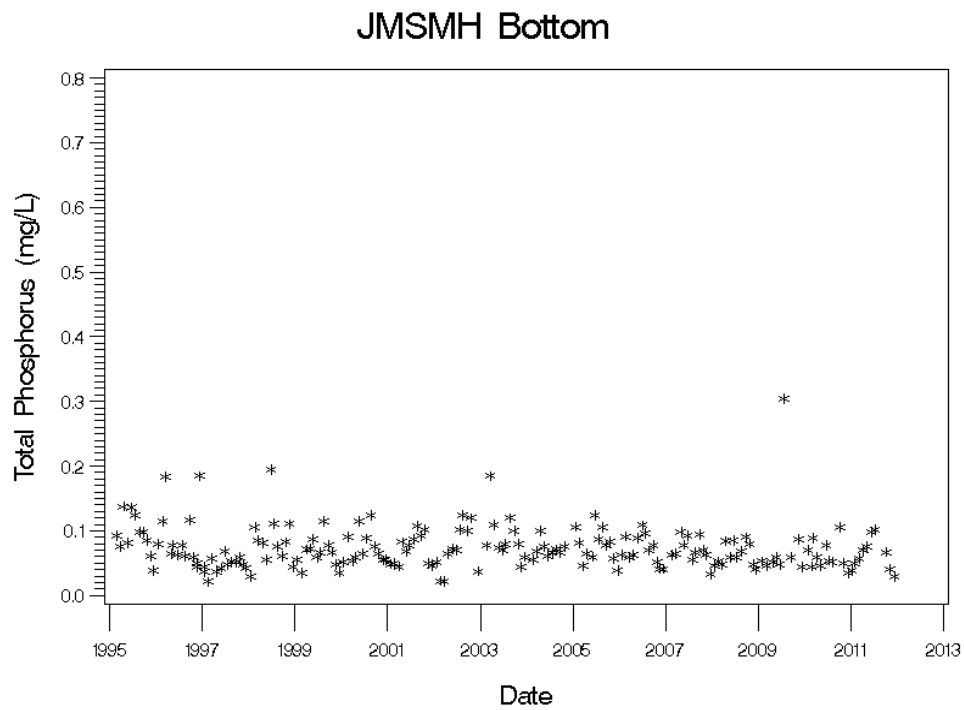
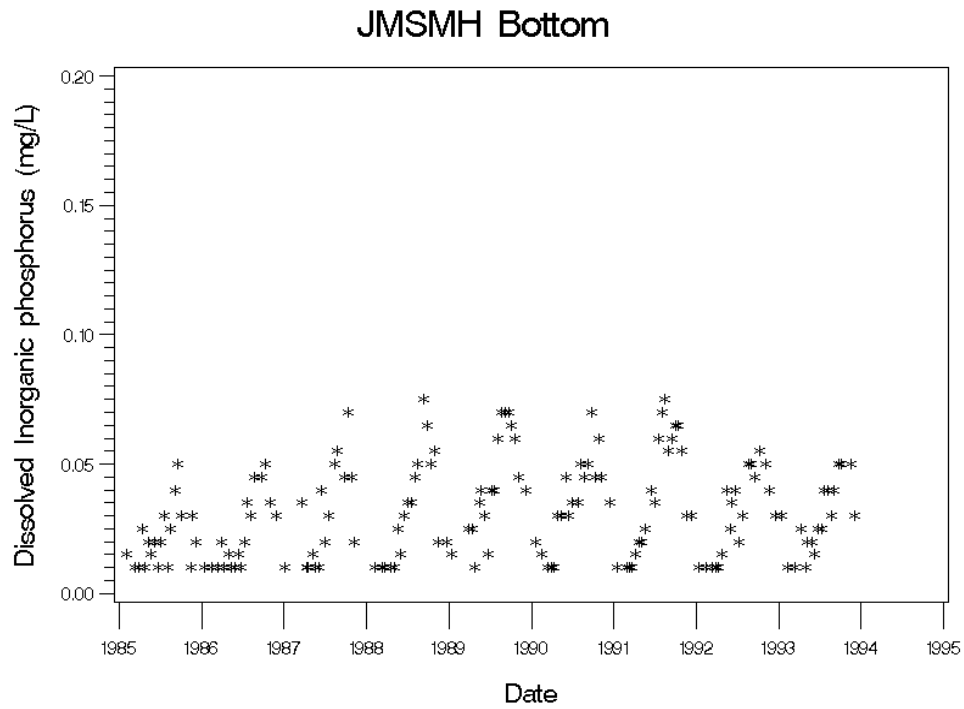


Figure 94. Scatterplots of bottom total phosphorus at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

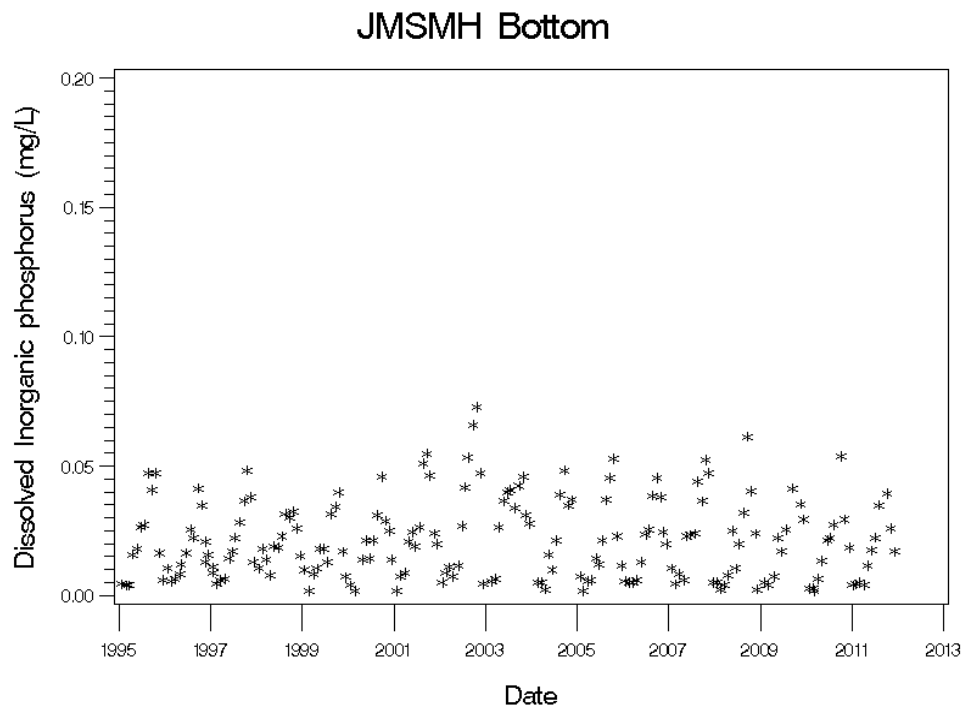


Figure 95. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

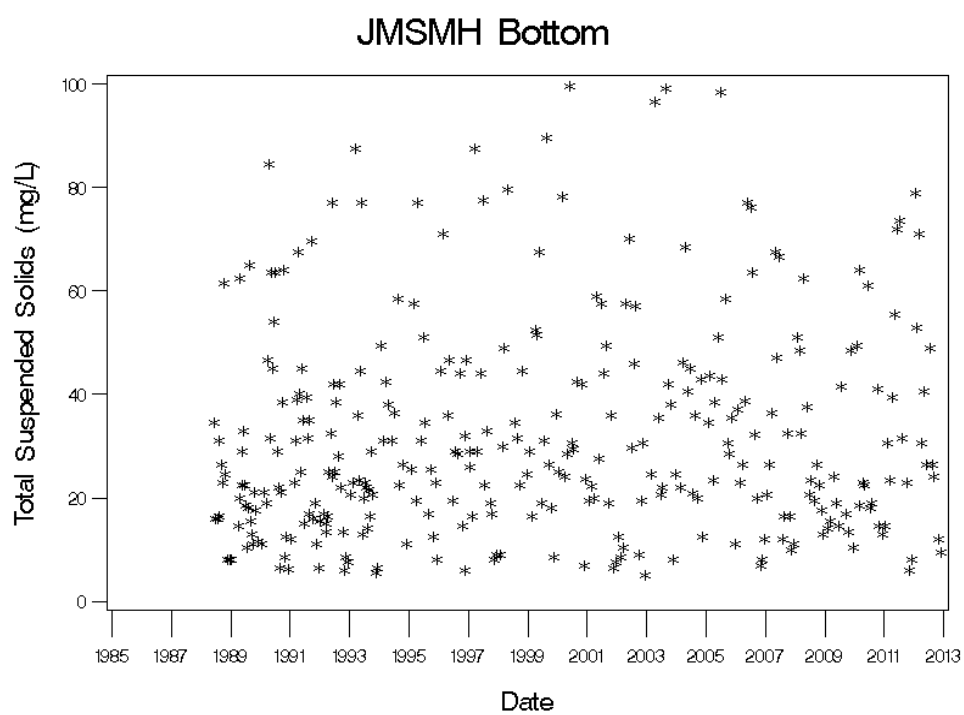


Figure 96. Scatterplot of bottom total suspended solids at segment JMSMH during the period 1985 to 2013.

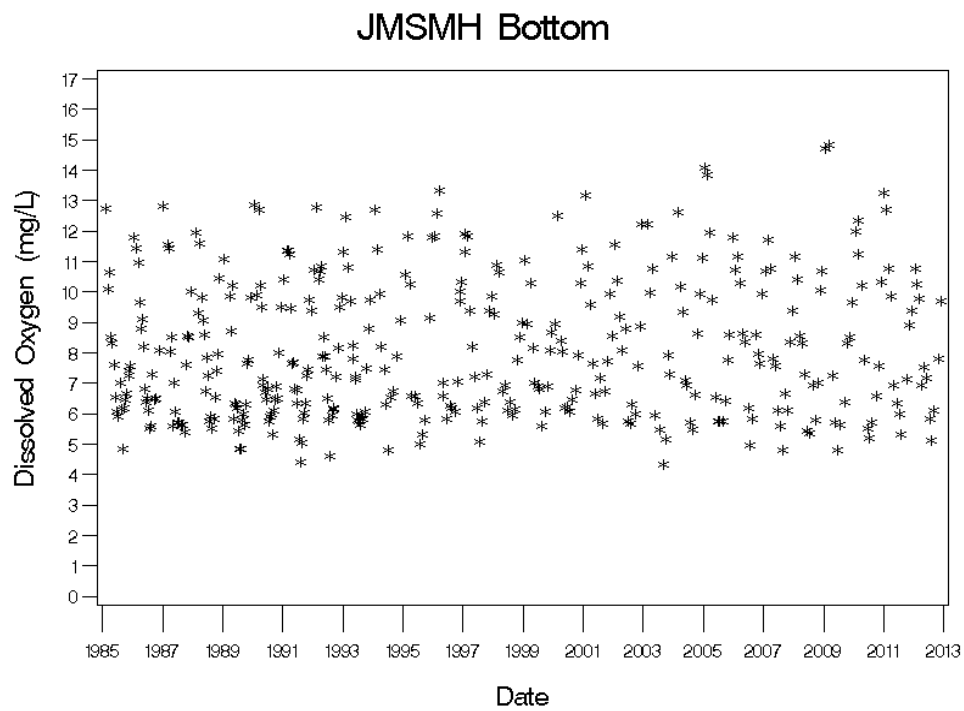


Figure 97. Scatterplot of bottom dissolved oxygen at segment JMSMH during the period 1985 to 2013.

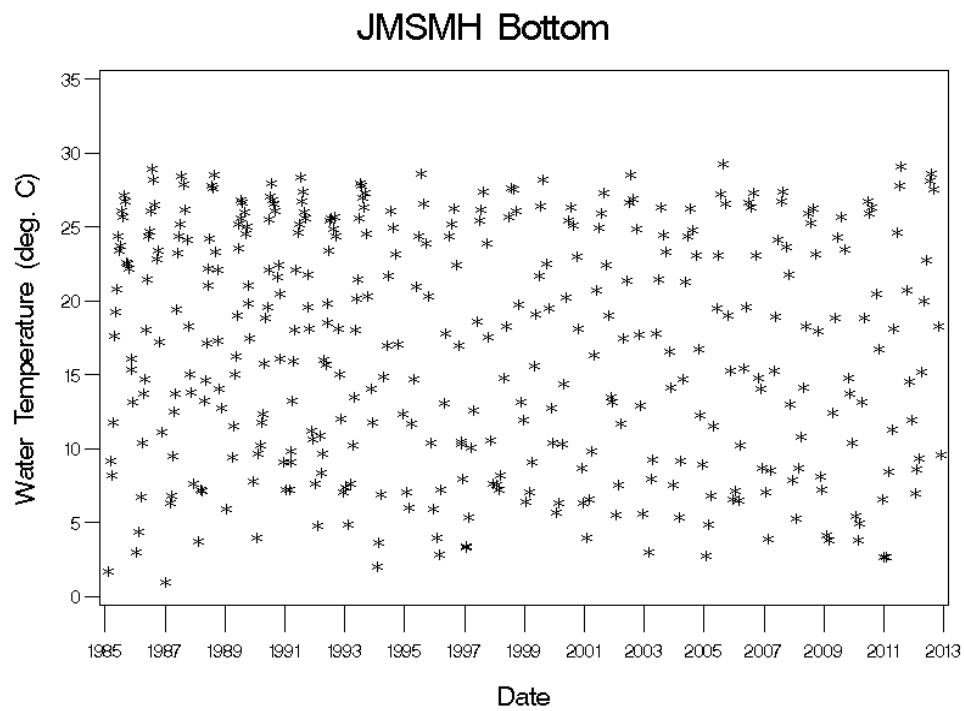


Figure 98. Scatterplot of bottom water temperature at segment JMSMH during the period 1985 to 2013.

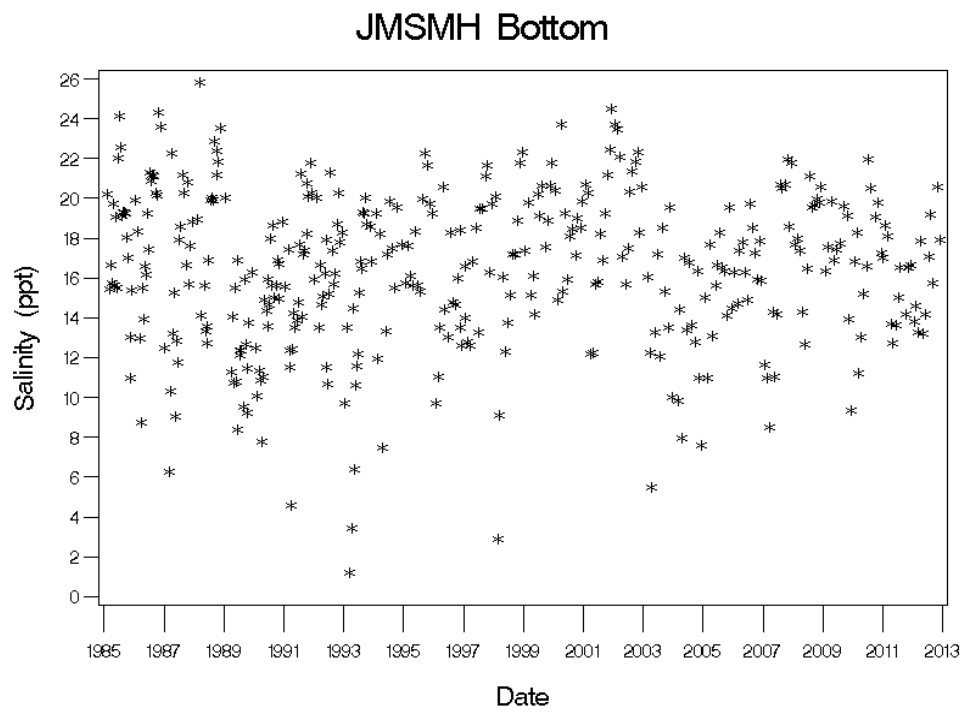


Figure 99. Scatterplot of bottom salinity at segment JMSMH during the period 1985 to 2013.

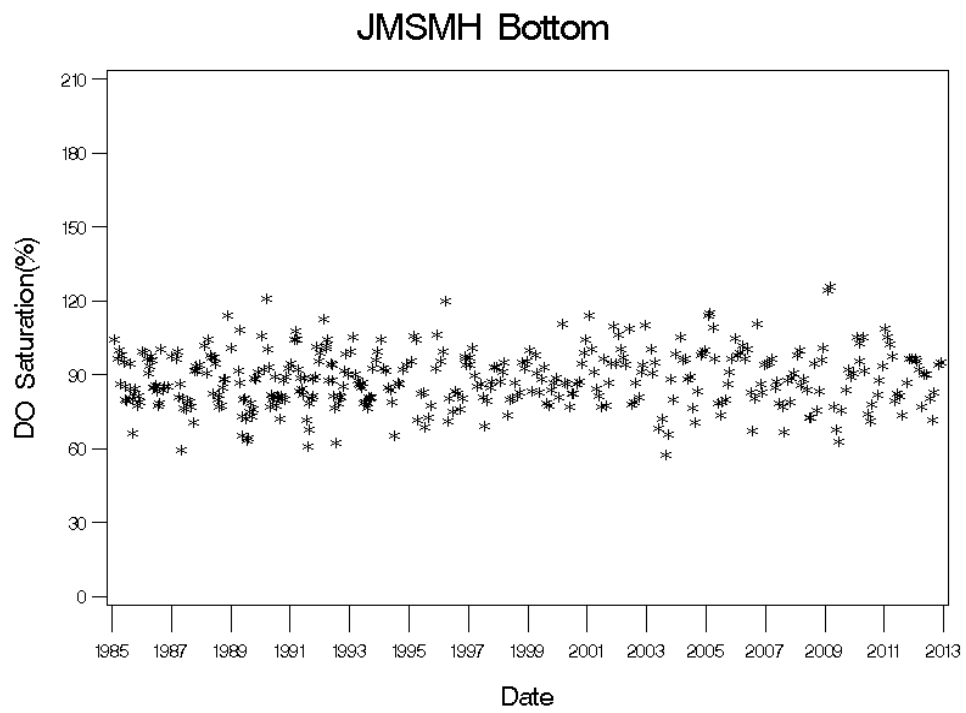
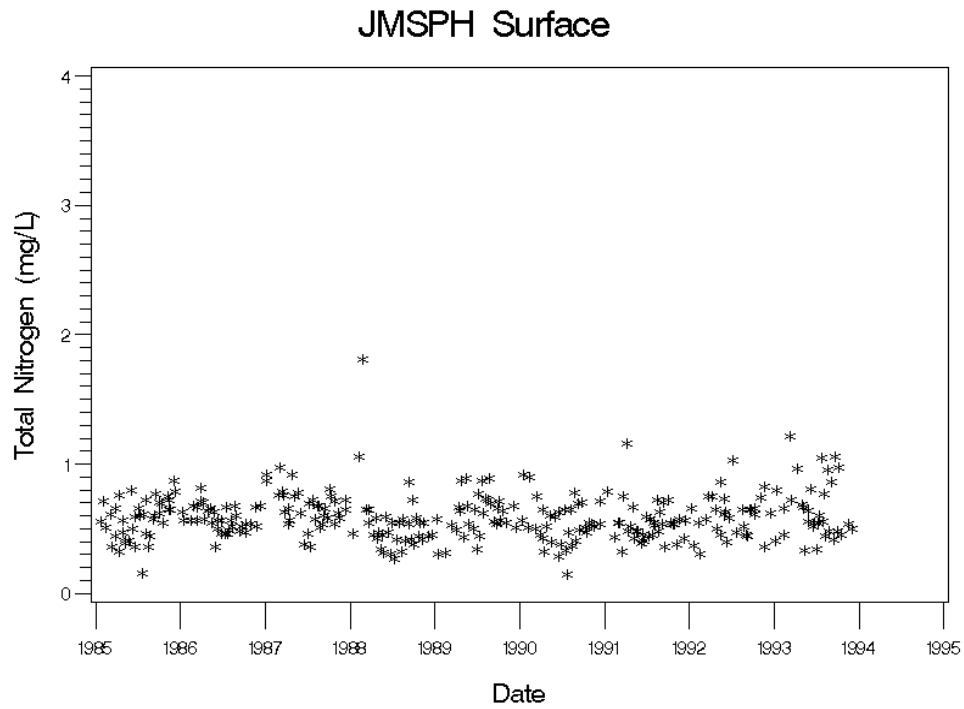


Figure 100. Scatterplot of bottom DO saturation at segment JMSMH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

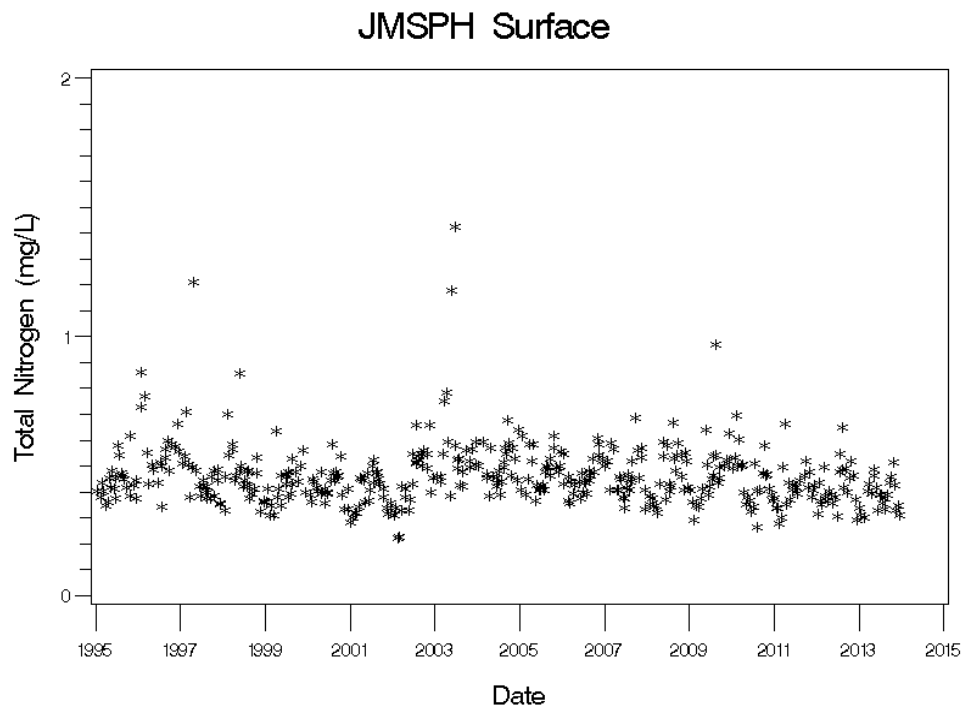
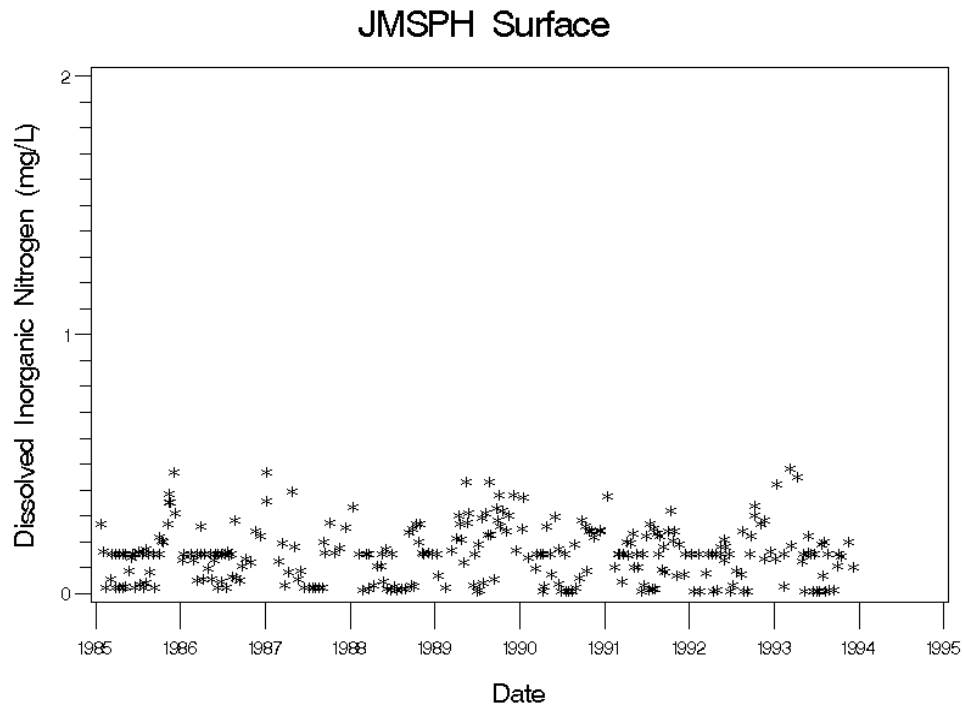


Figure 101. Scatterplots of surface total nitrogen at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

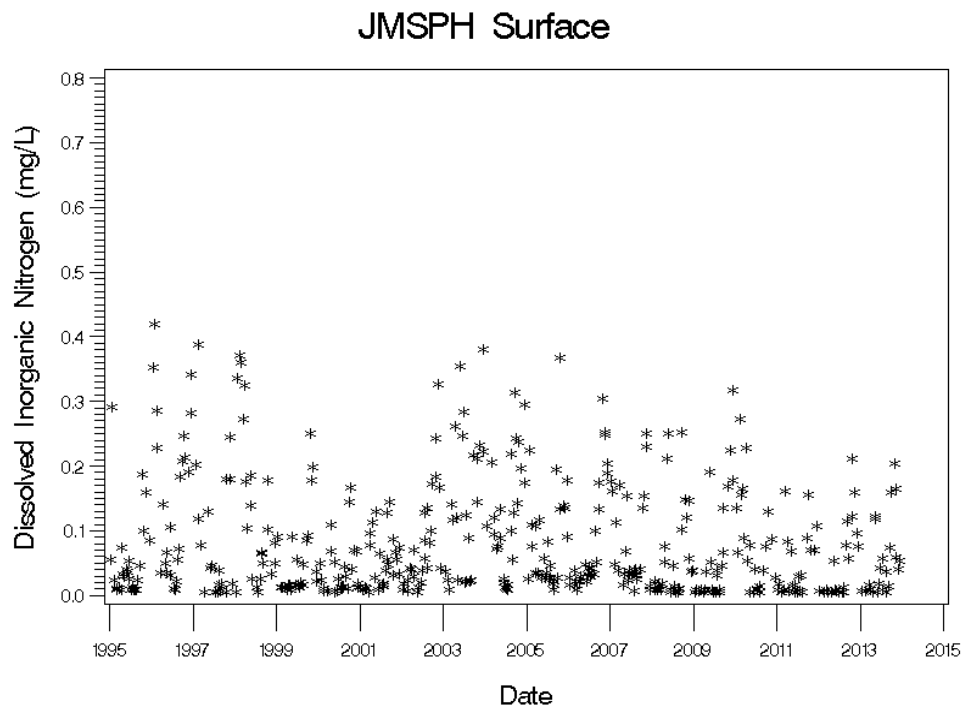
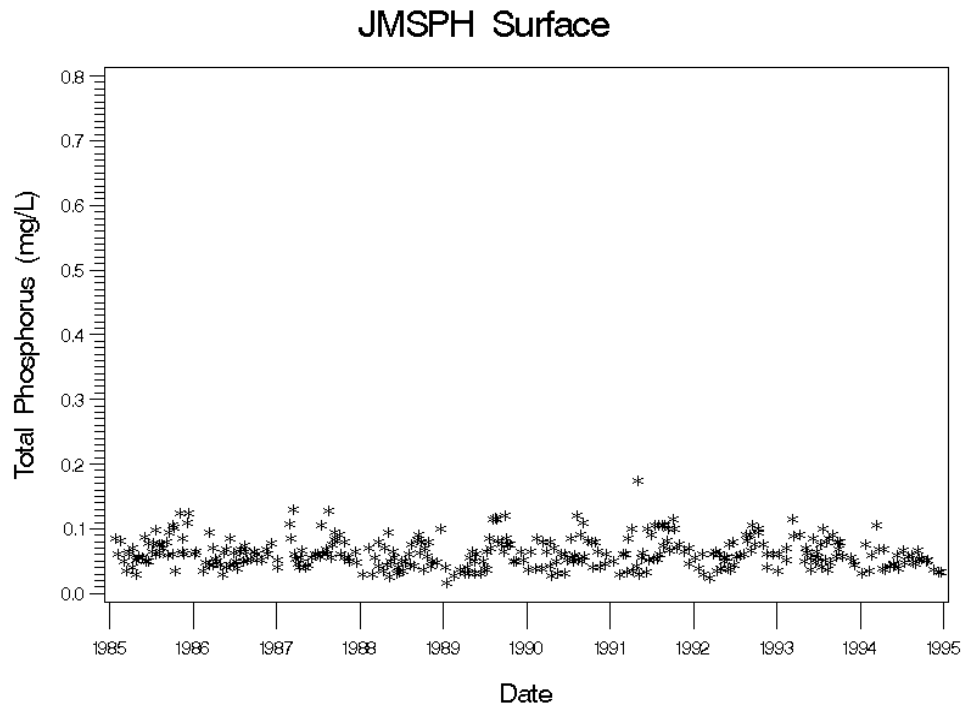


Figure 102. Scatterplots of surface dissolved inorganic nitrogen at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

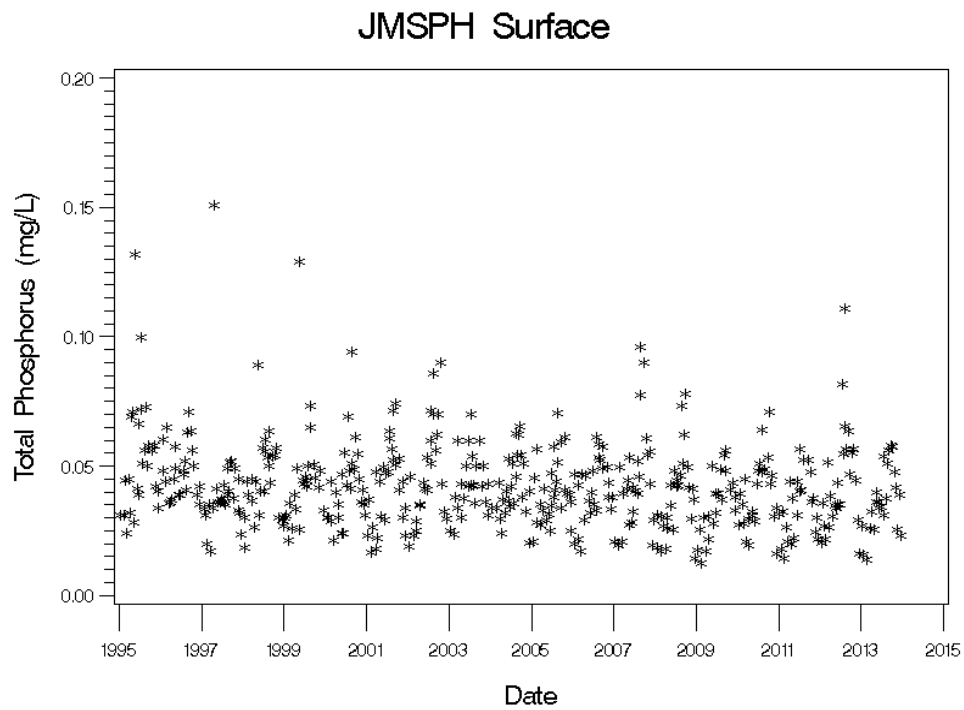
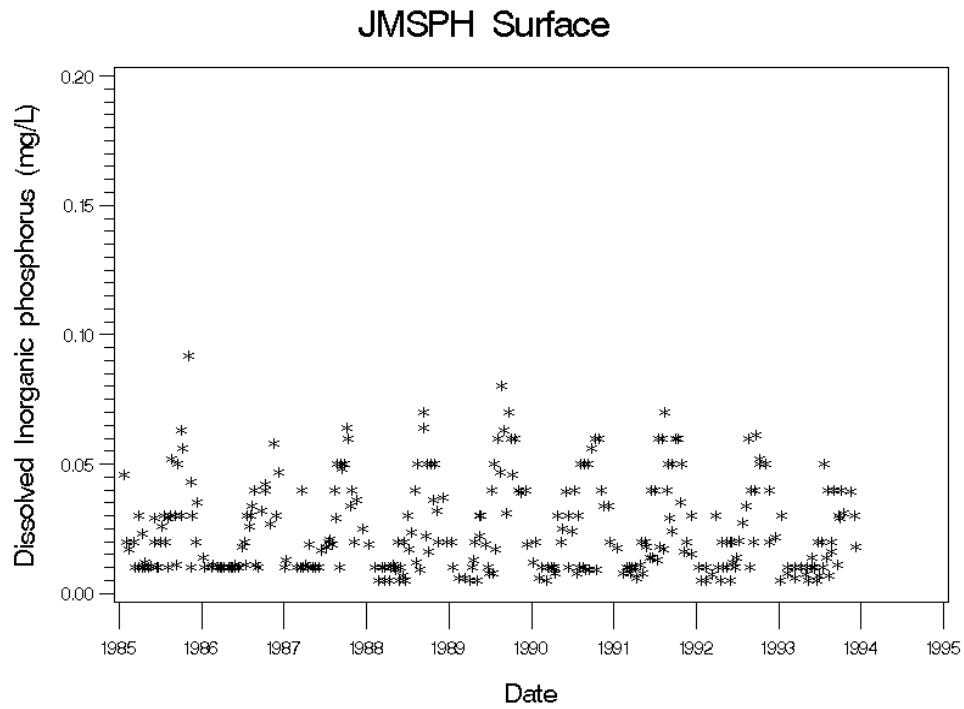


Figure 103. Scatterplots of surface total phosphorus at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

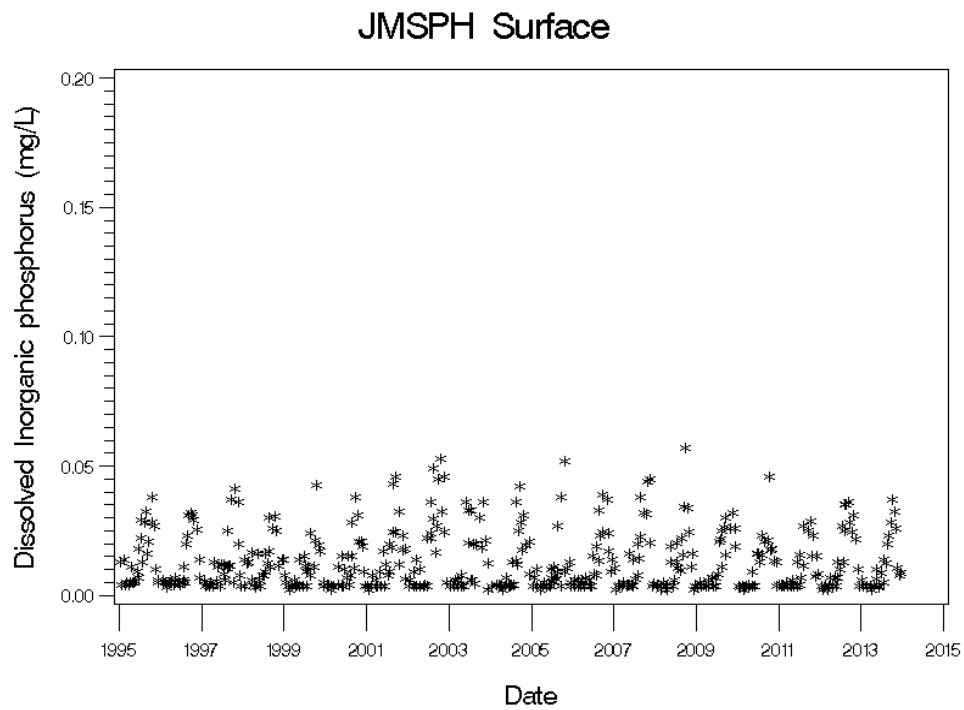


Figure 104. Scatterplots of surface dissolved inorganic phosphorus at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

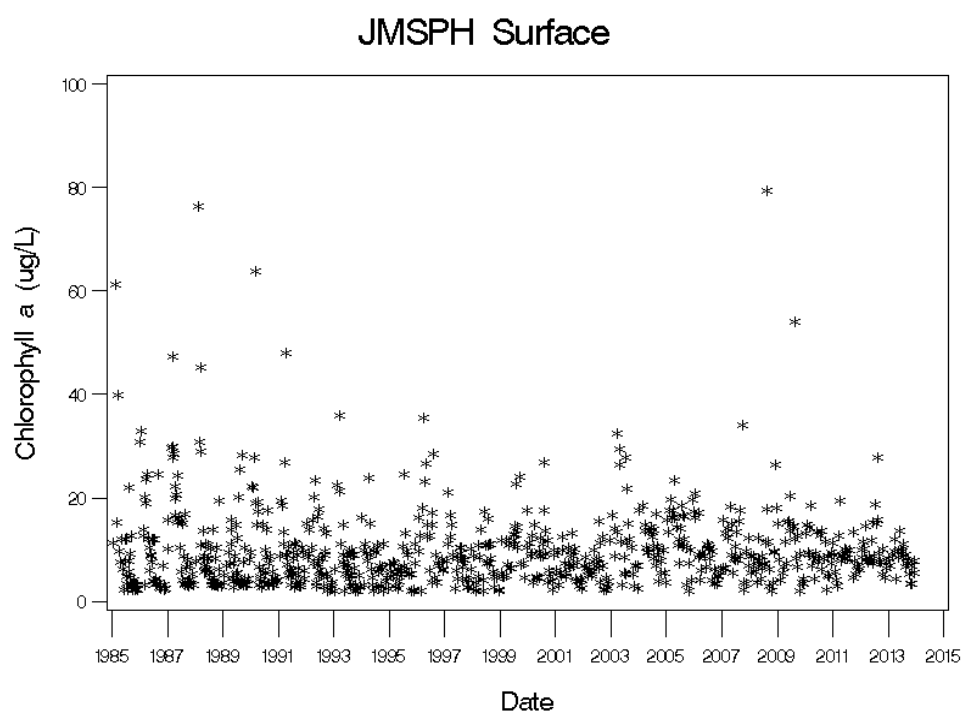


Figure 105. Scatterplot of surface chlorophyll a at segment JMSPH during the period 1985 to 2013.

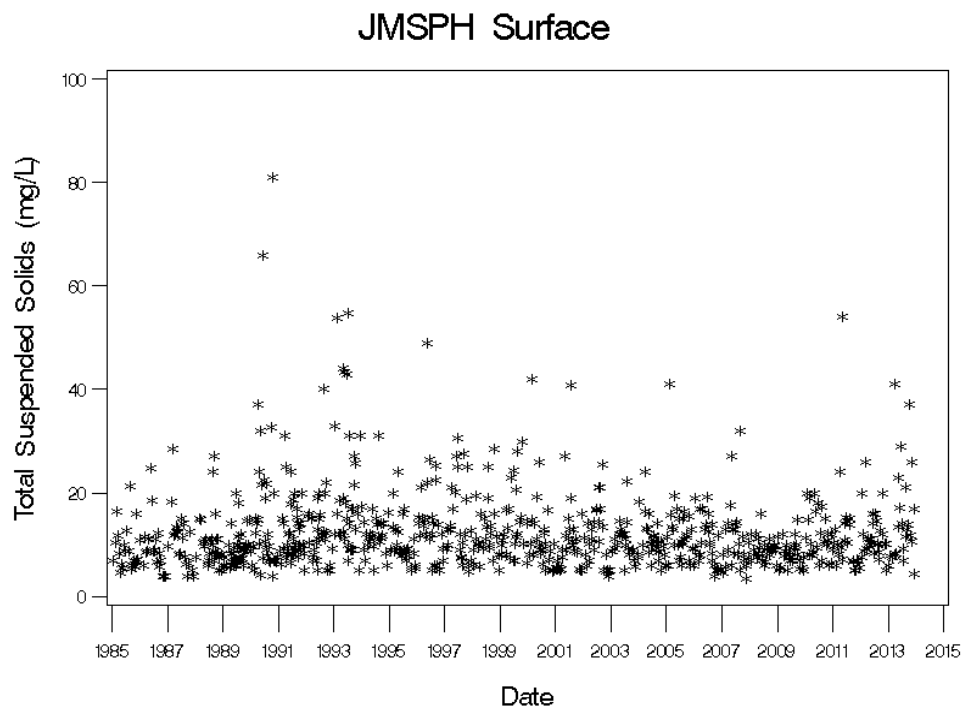


Figure 106. Scatterplot of surface total suspended solids at segment JMSPH during the period 1985 to 2013.

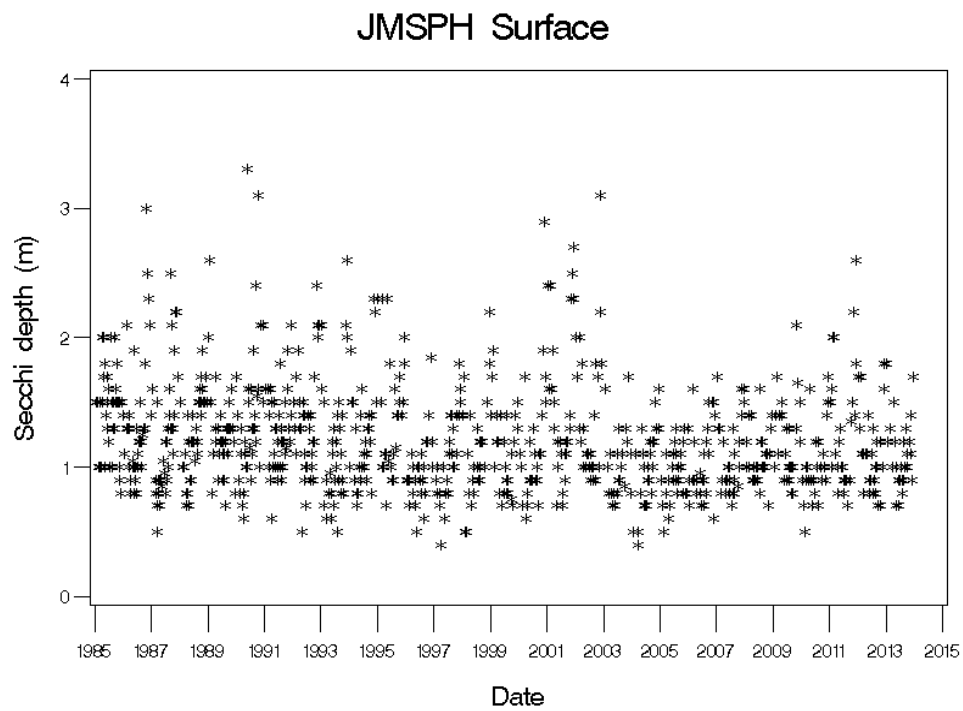


Figure 107. Scatterplot of secchi depth at segment JMSPH during the period 1985 to 2013.

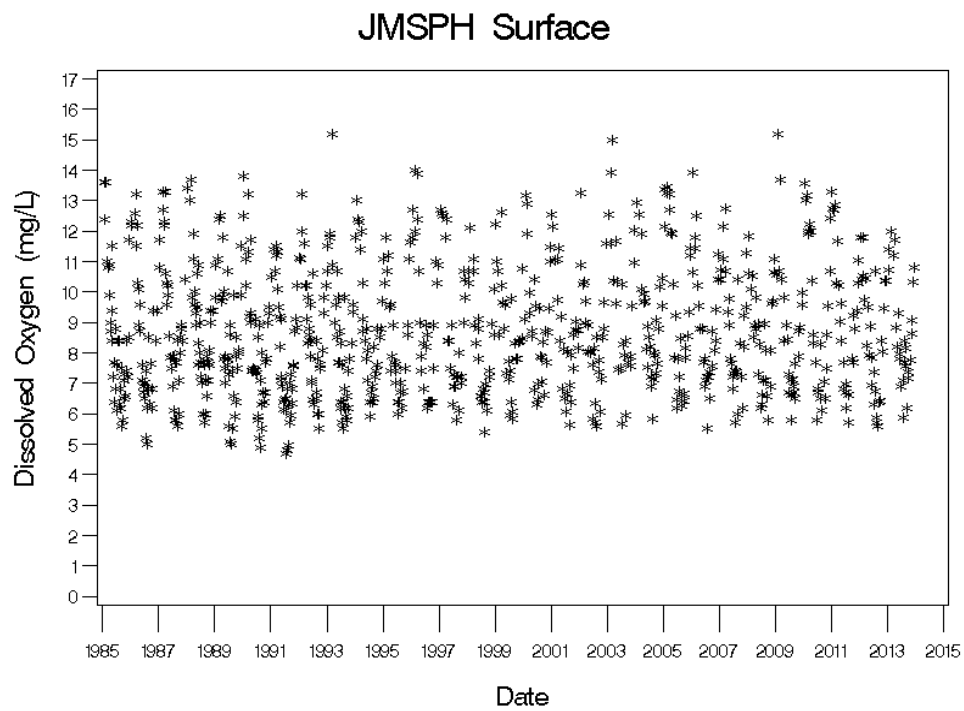


Figure 108. Scatterplot of surface dissolved oxygen at segment JMSPH during the period 1985 to 2013.

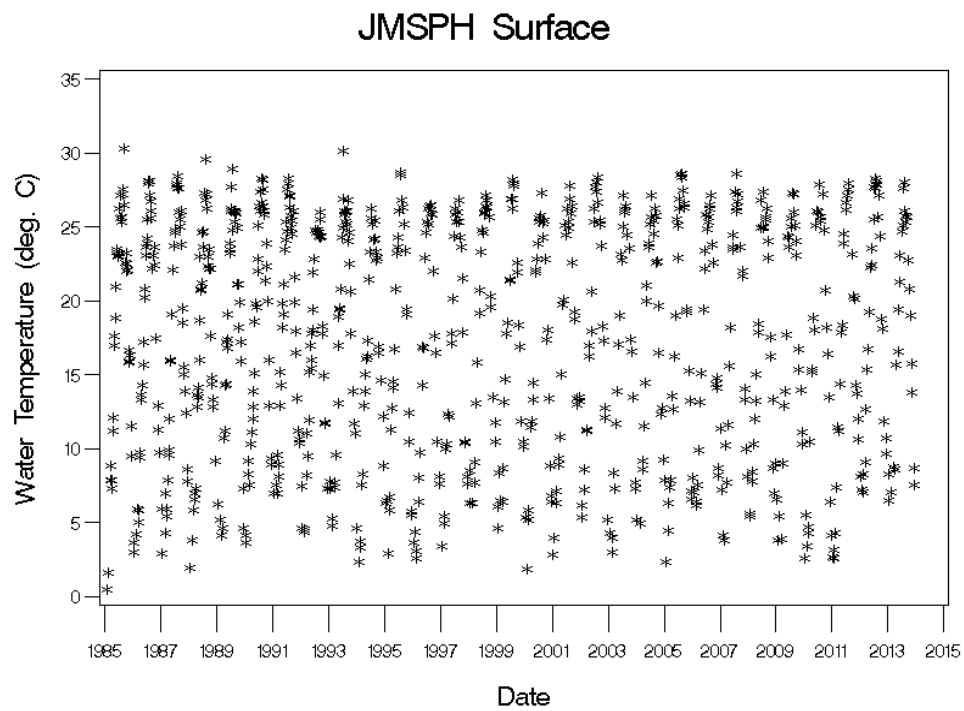


Figure 109. Scatterplot of surface water temperature at segment JMSPH during the period 1985 to 2013.

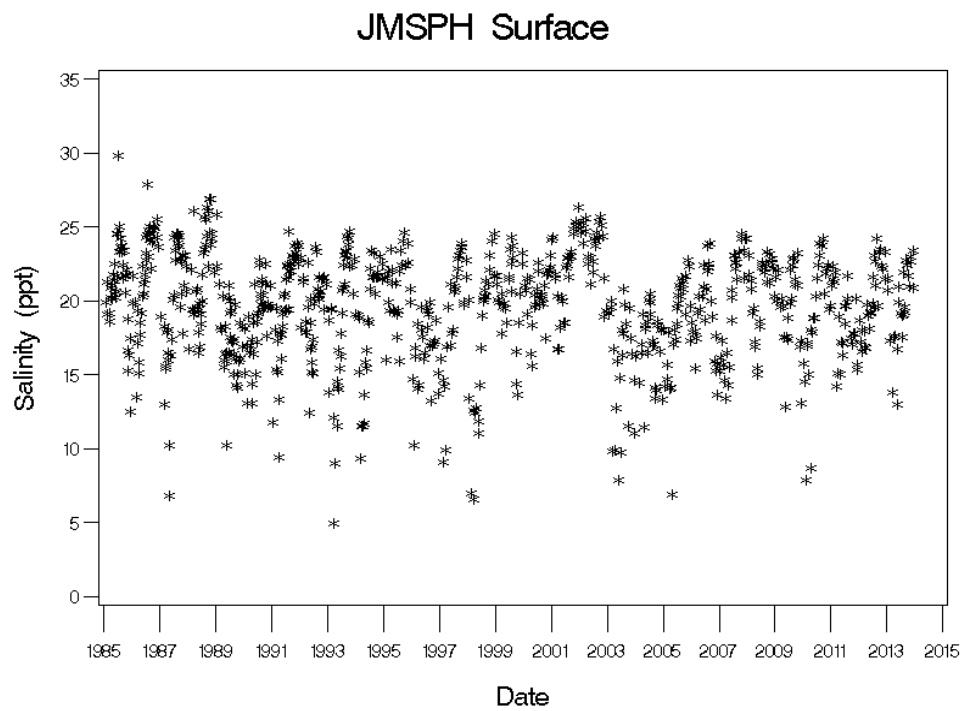


Figure 110. Scatterplot of surface salinity at segment JMSPH during the period 1985 to 2013.

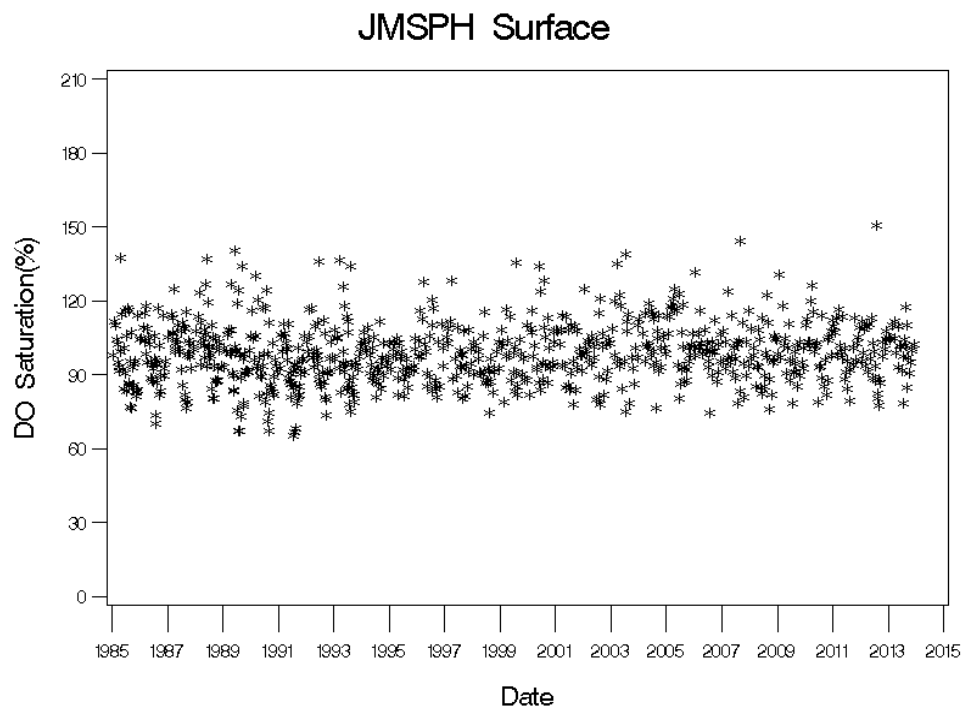
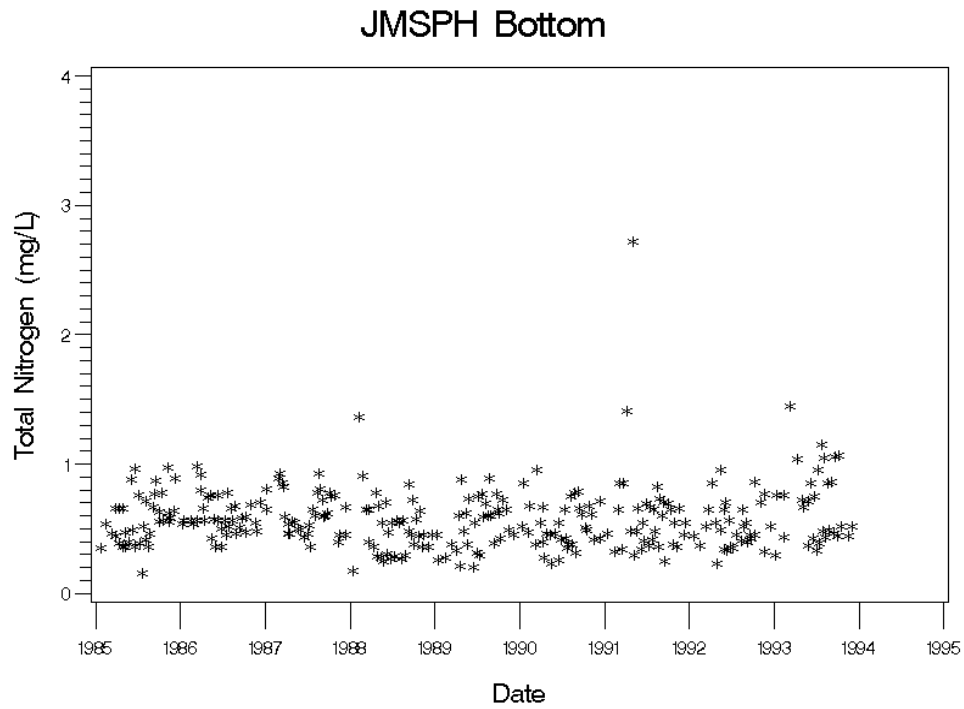


Figure 111. Scatterplot of surface DO saturation at segment JMSPH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

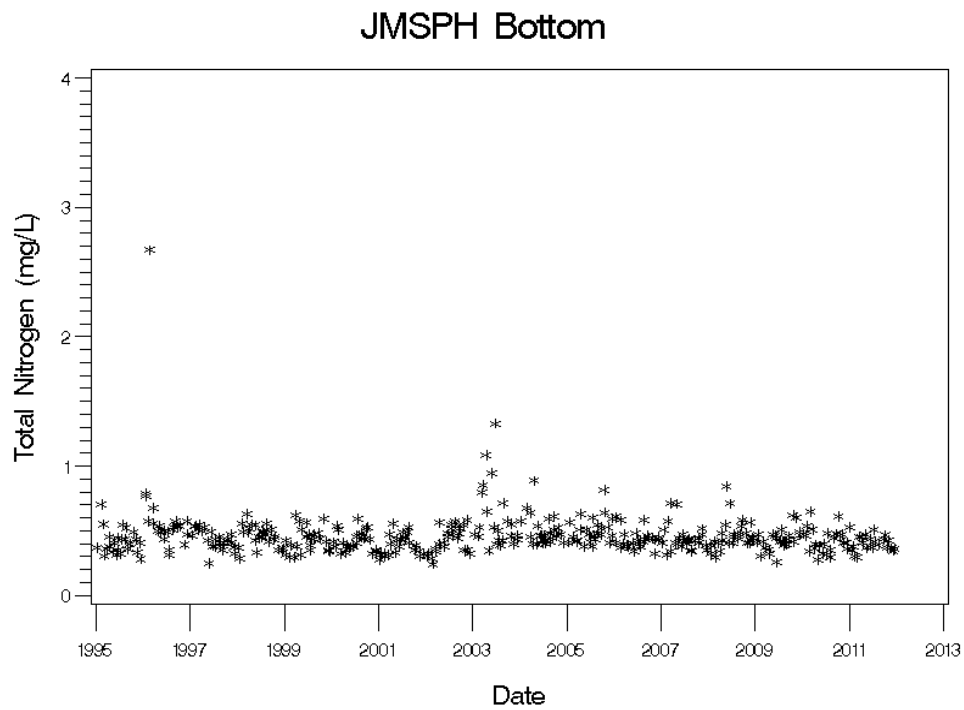
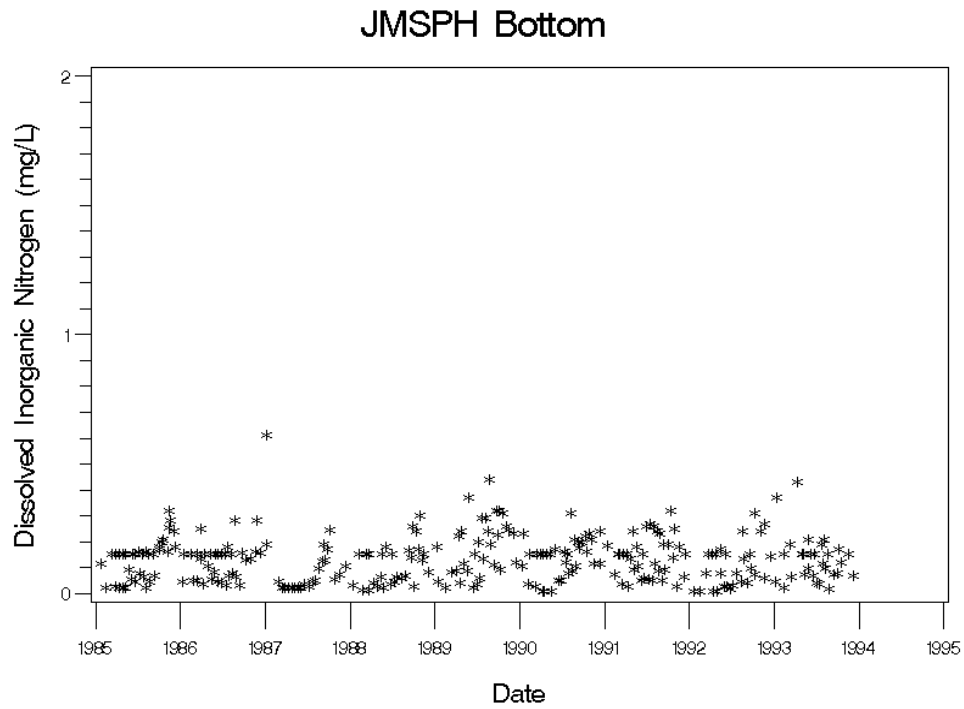


Figure 112. Scatterplots of bottom total nitrogen at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

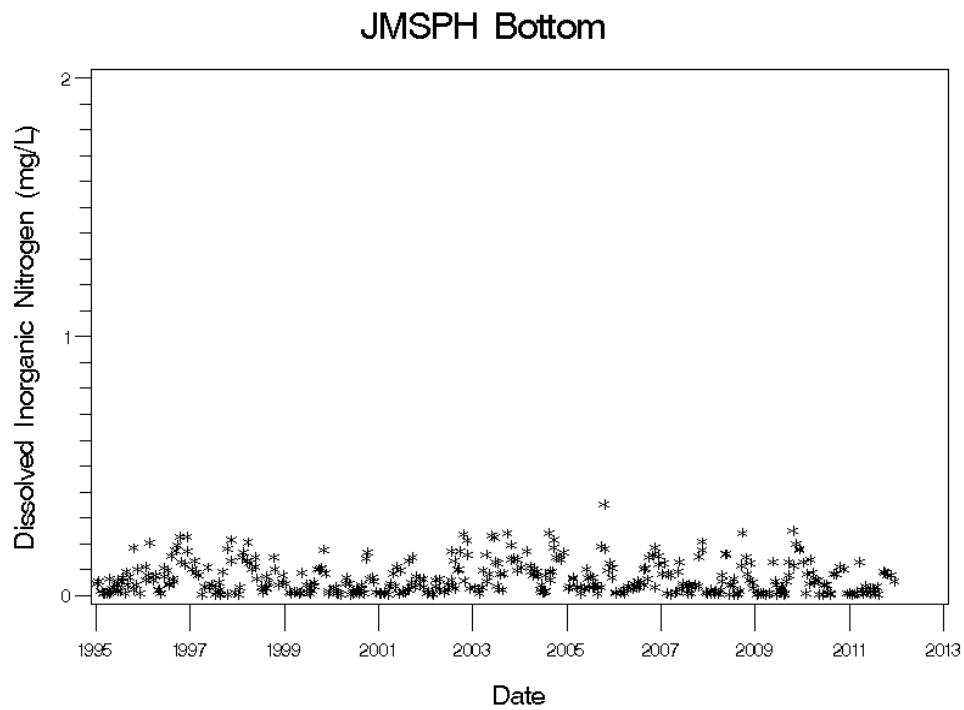
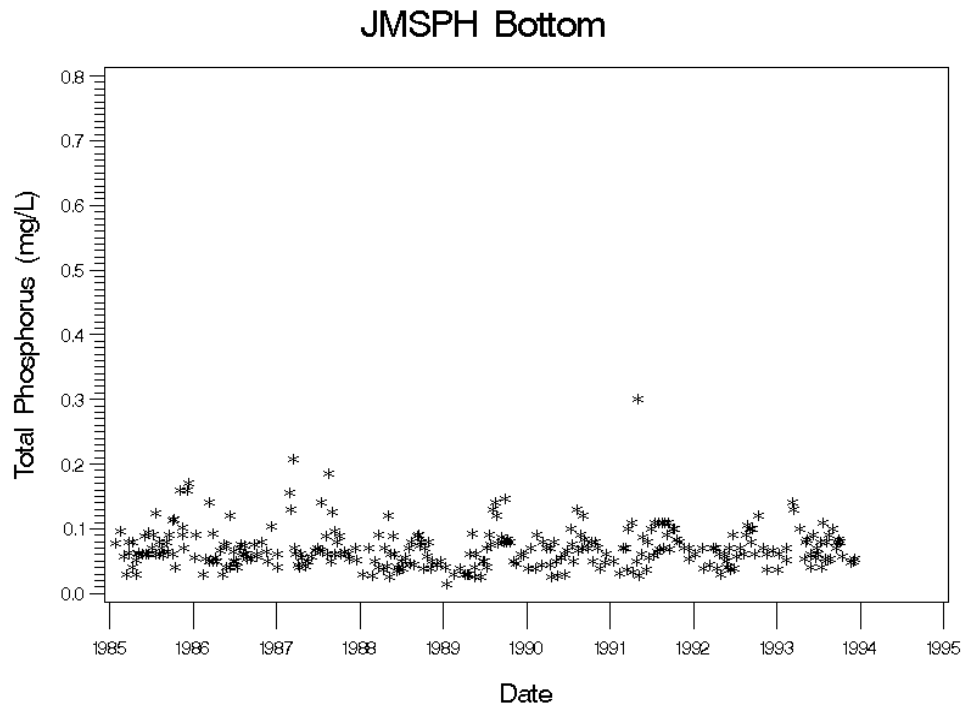


Figure 113. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

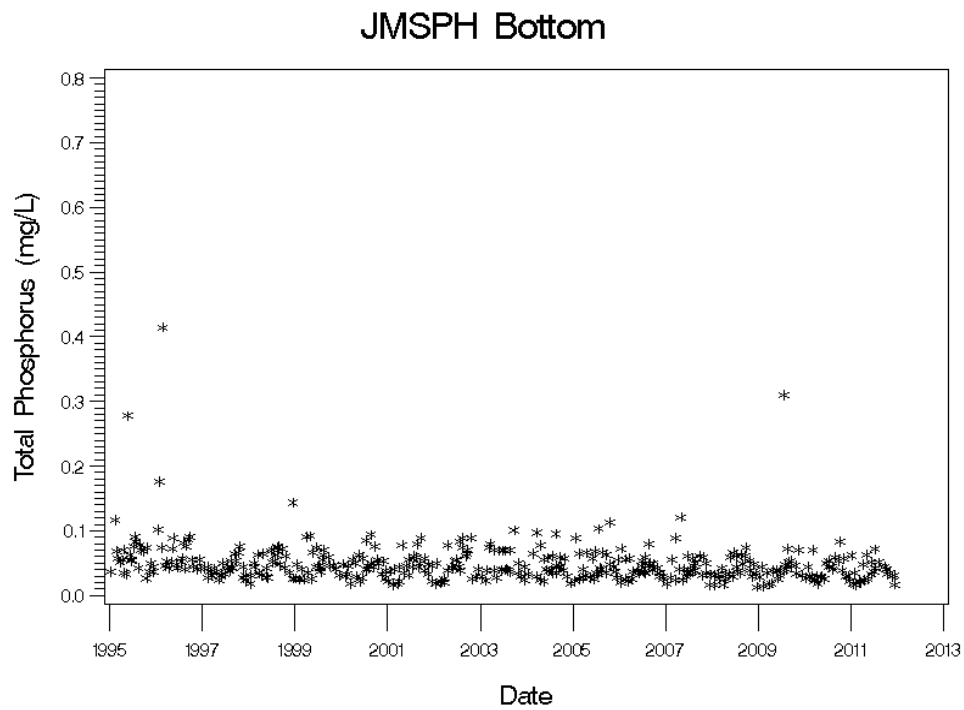
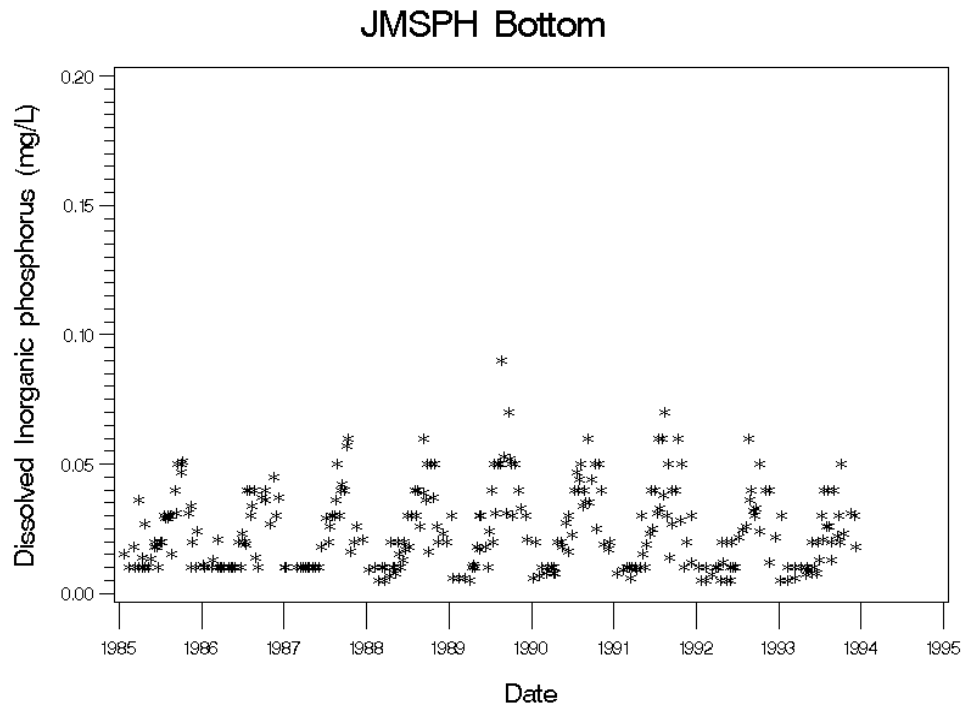


Figure 114. Scatterplots of bottom total phosphorus at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

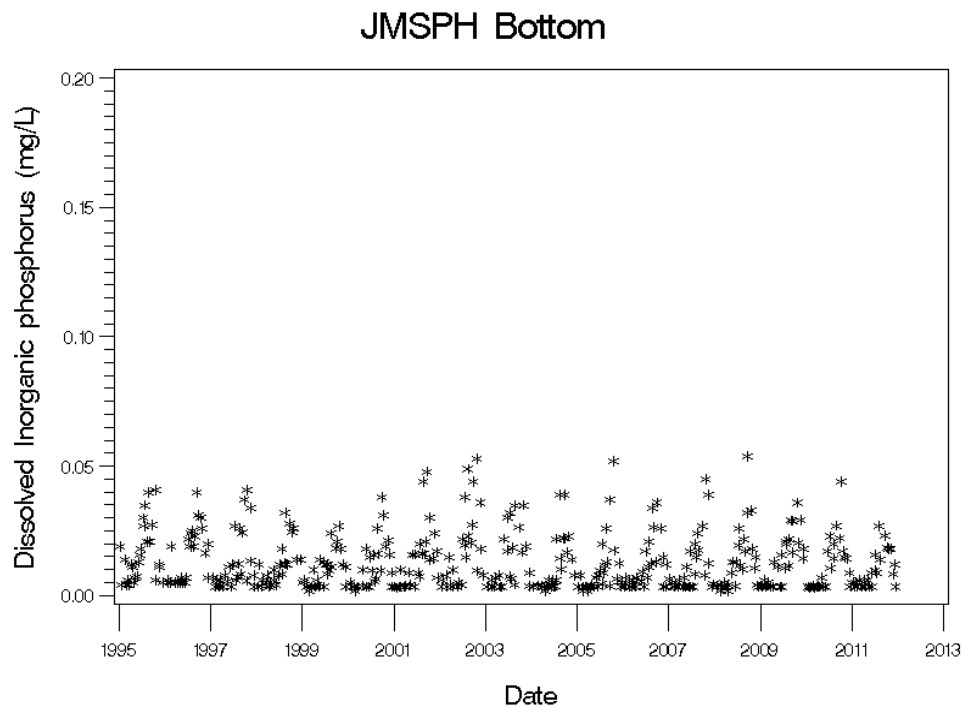


Figure 115. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

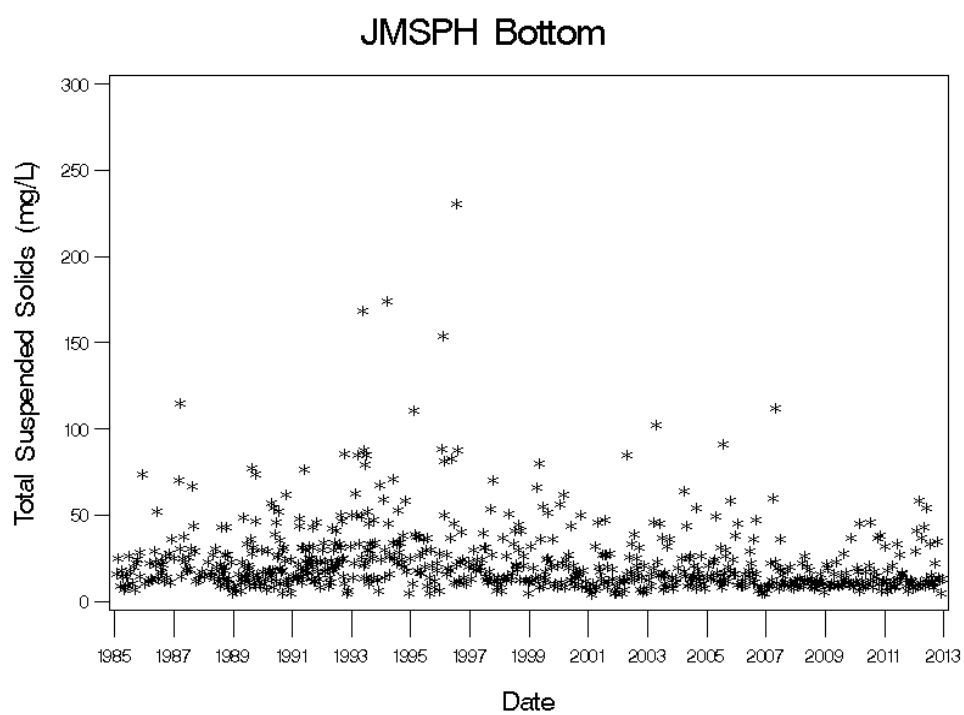


Figure 116. Scatterplot of bottom total suspended solids at segment JMSPH during the period 1985 to 2013.

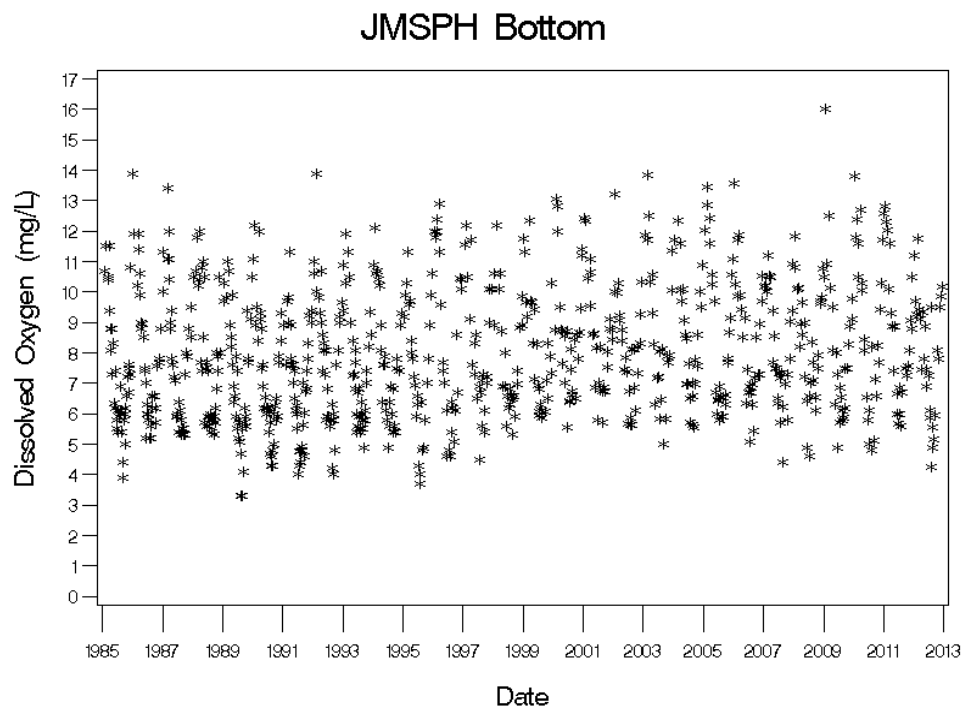


Figure 117. Scatterplot of bottom dissolved oxygen at segment JMSPH during the period 1985 to 2013.

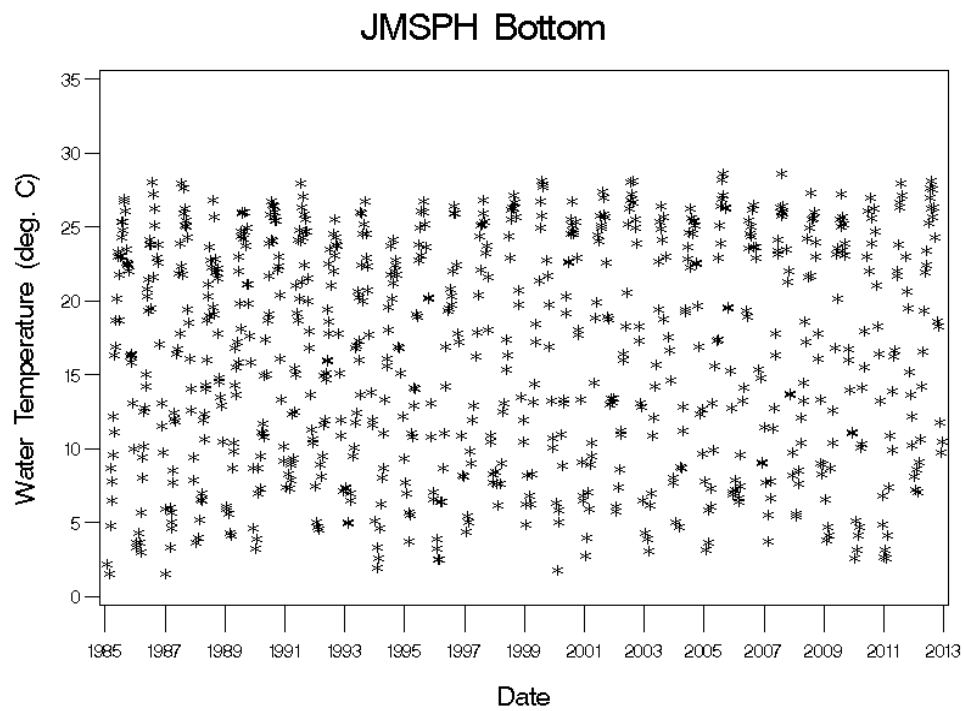


Figure 118. Scatterplot of bottom water temperature at segment JMSPH during the period 1985 to 2013.

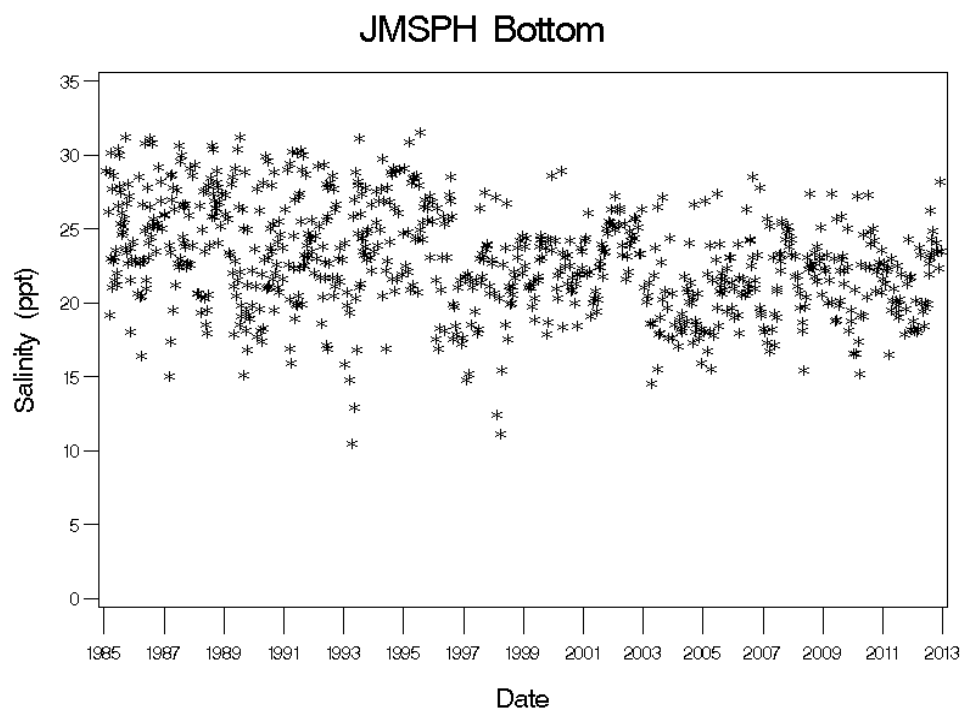


Figure 119. Scatterplot of bottom salinity at segment JMSPH during the period 1985 to 2013.

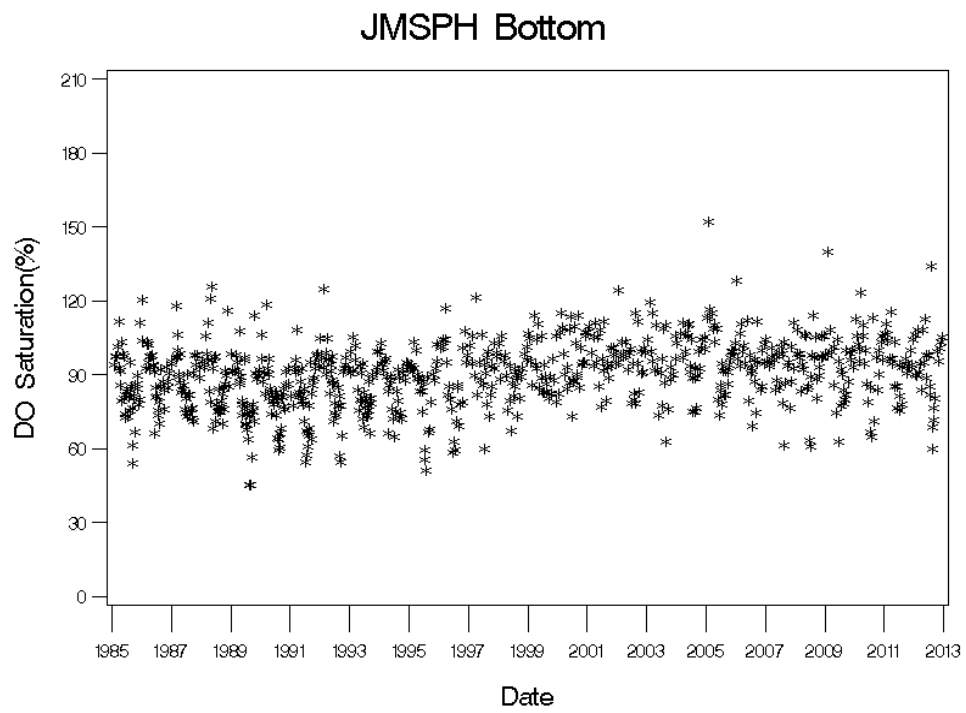


Figure 120. Scatterplot of bottom DO saturation at segment JMSPH during the period 1985 to 2013.