

Appendix C - Water Quality Scatterplots
Section I - James River

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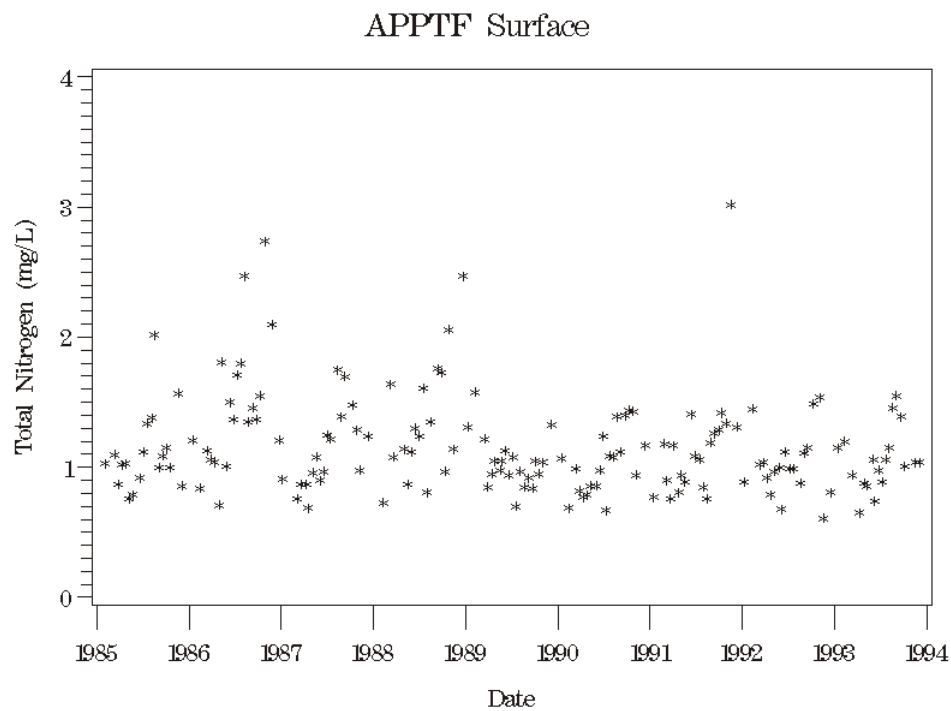
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a) Pre-method change period



b) Post-method change period

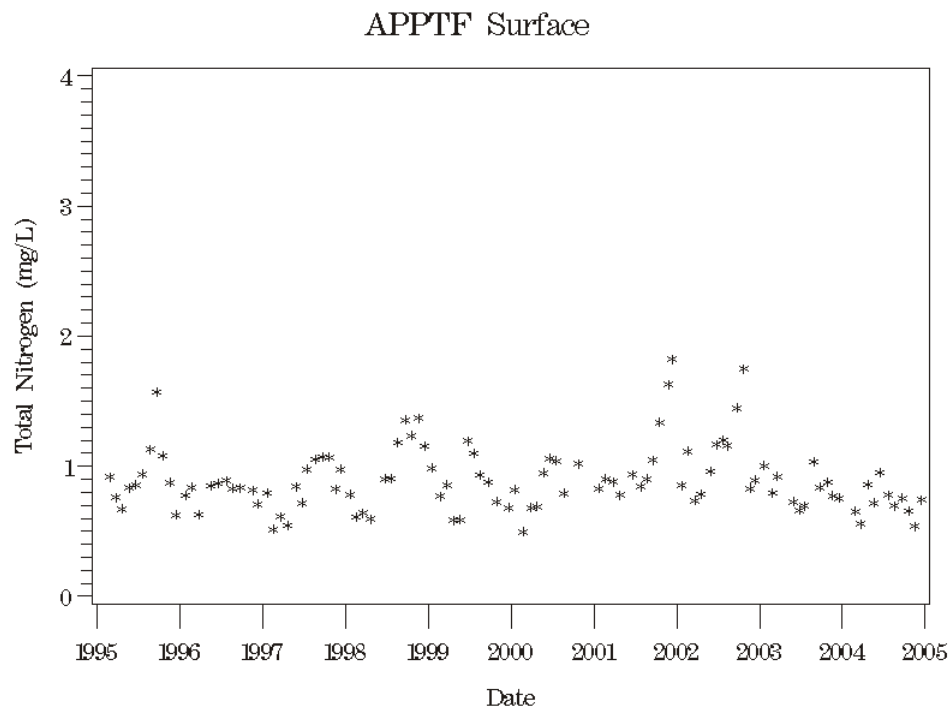
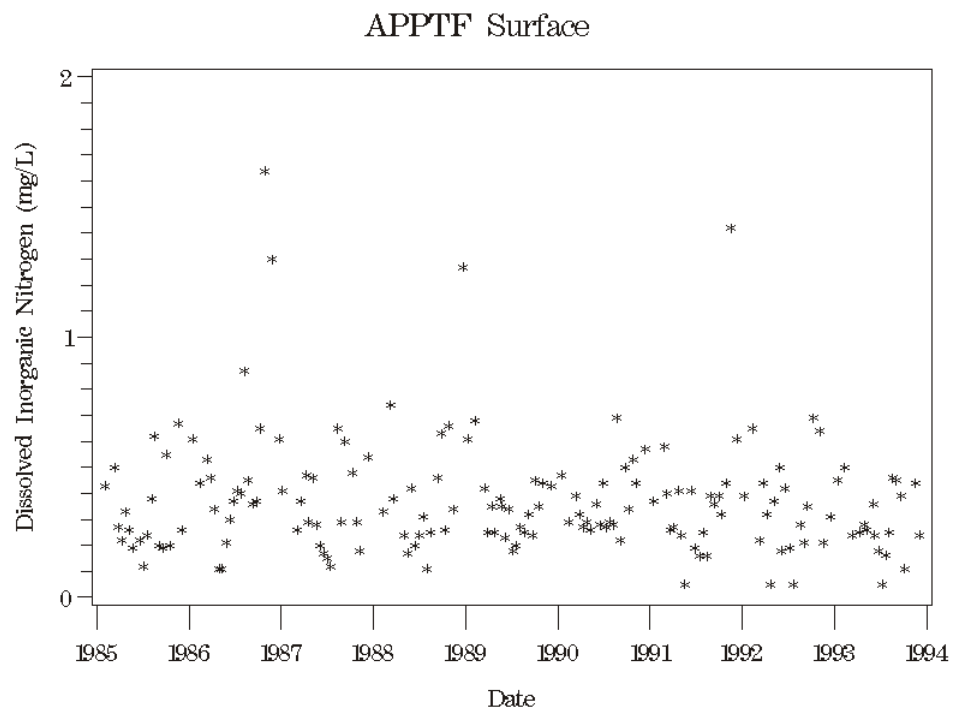


Figure 1. Scatterplots of surface total nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

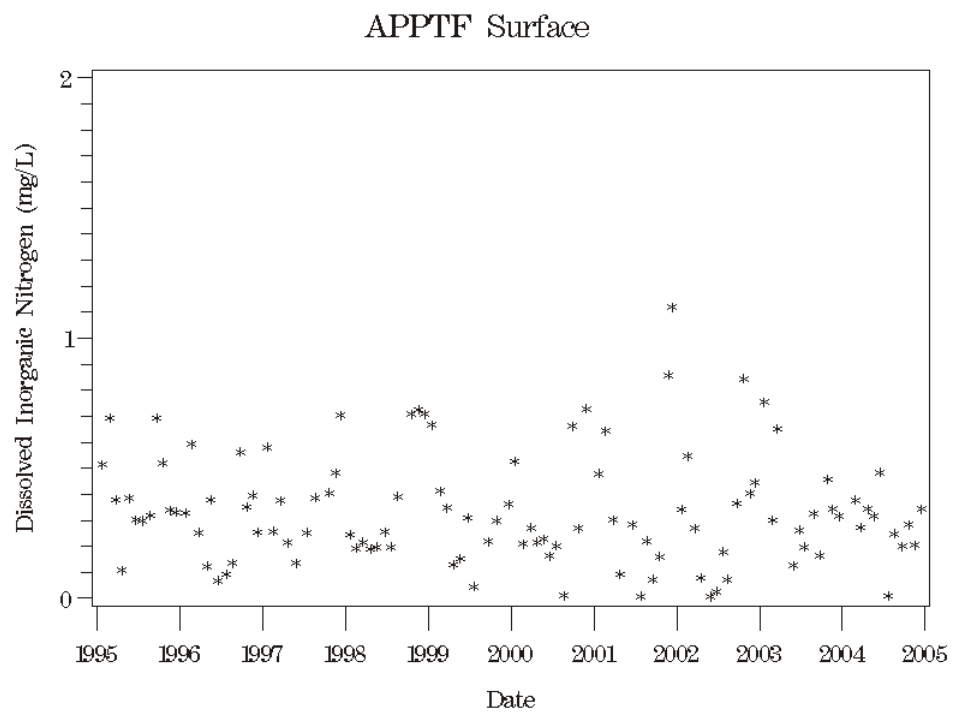
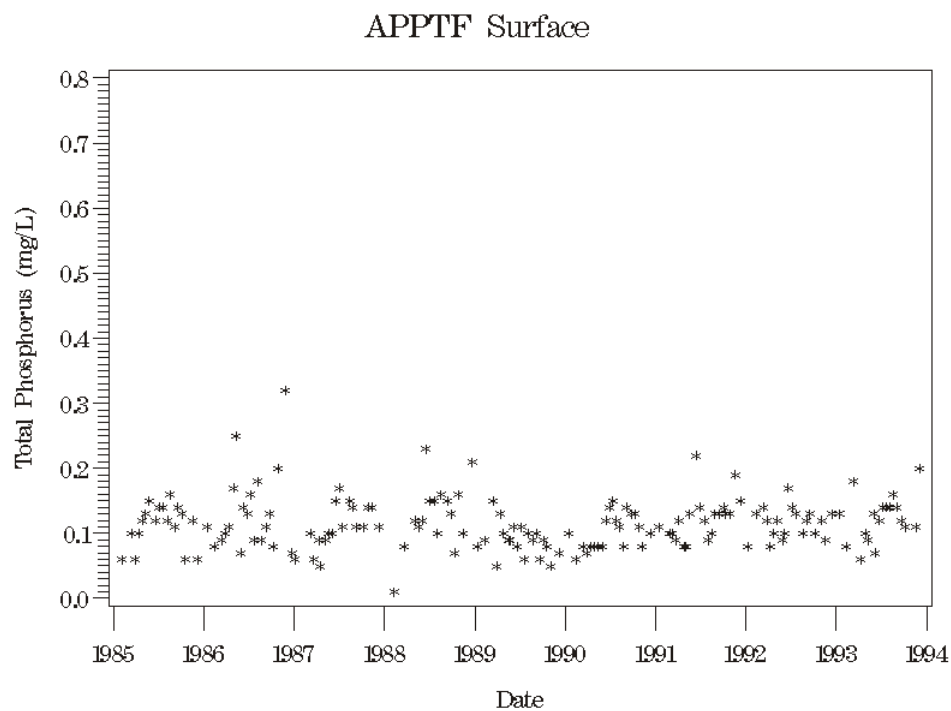


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

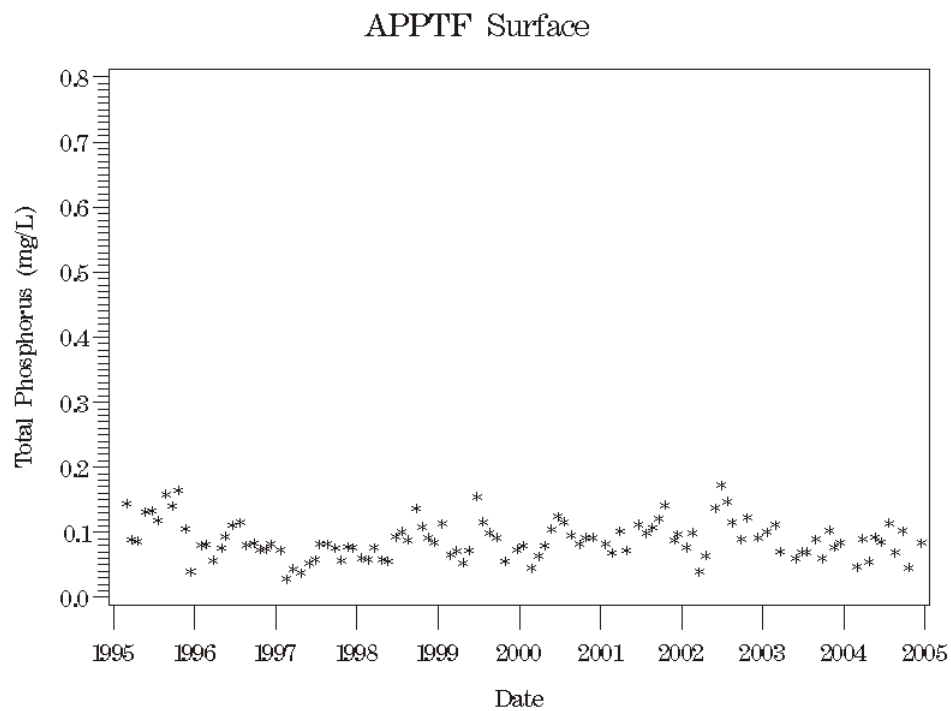
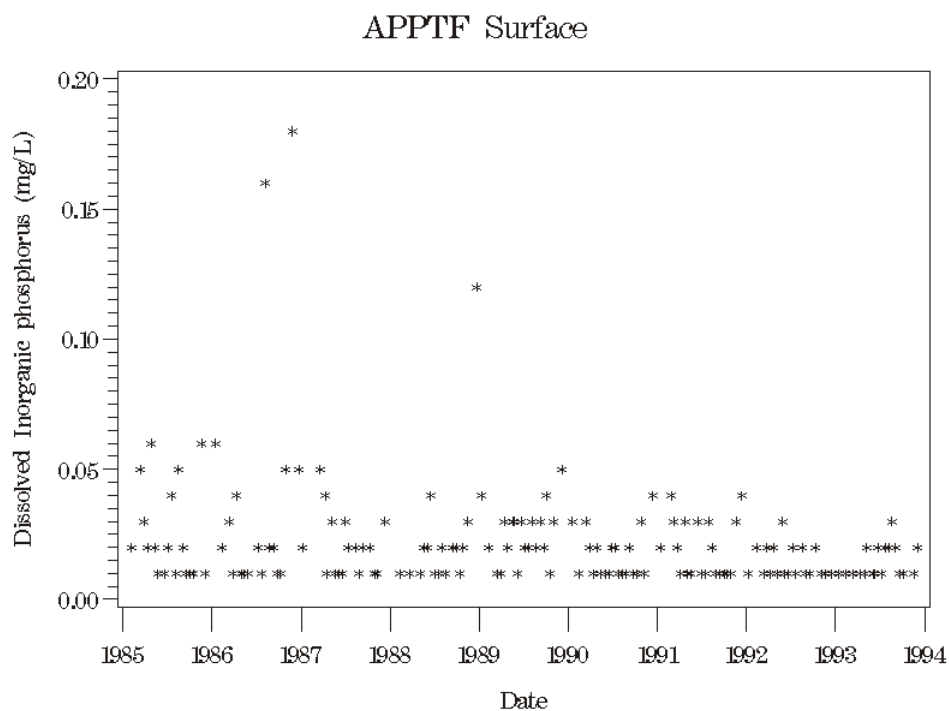


Figure 3. Scatterplots of surface total phosphorus at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

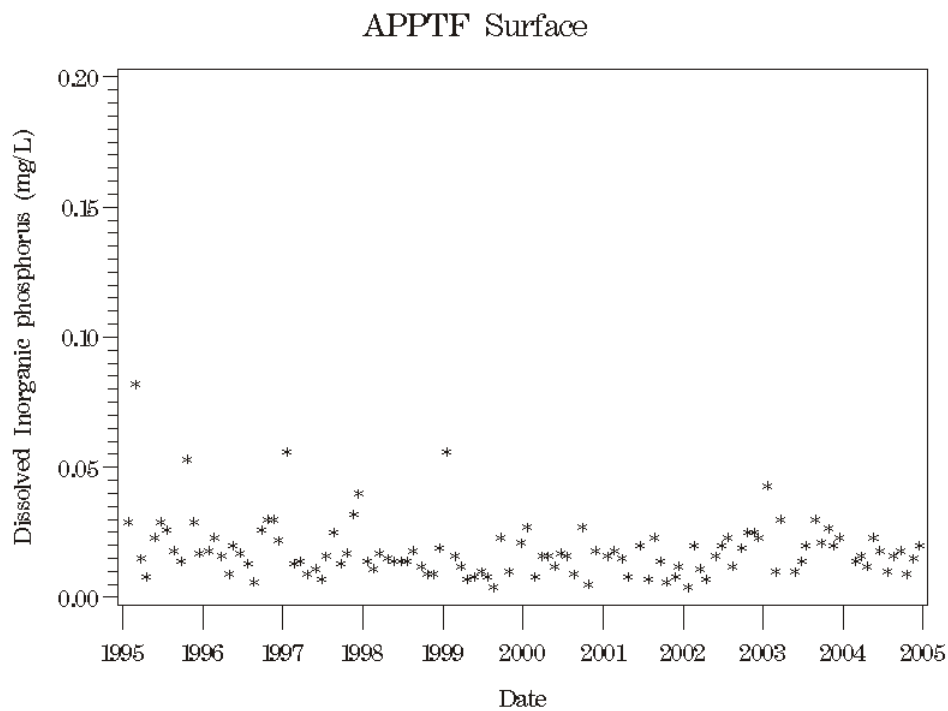


Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

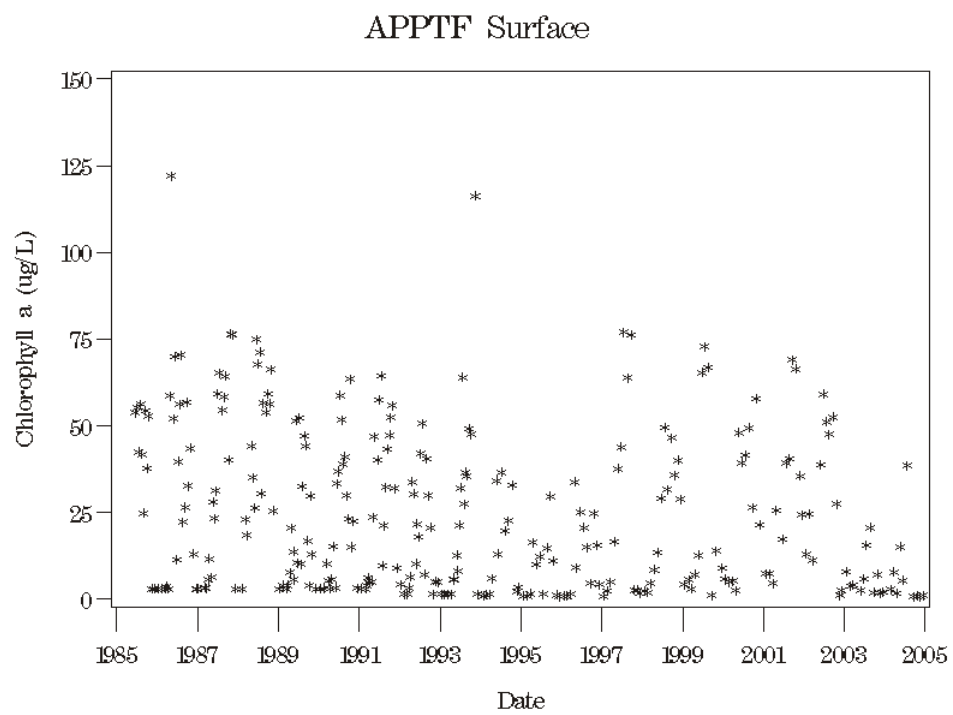


Figure 5. Scatterplot of surface chlorophyll *a* at segment APPTF during the period 1985 to 2004.

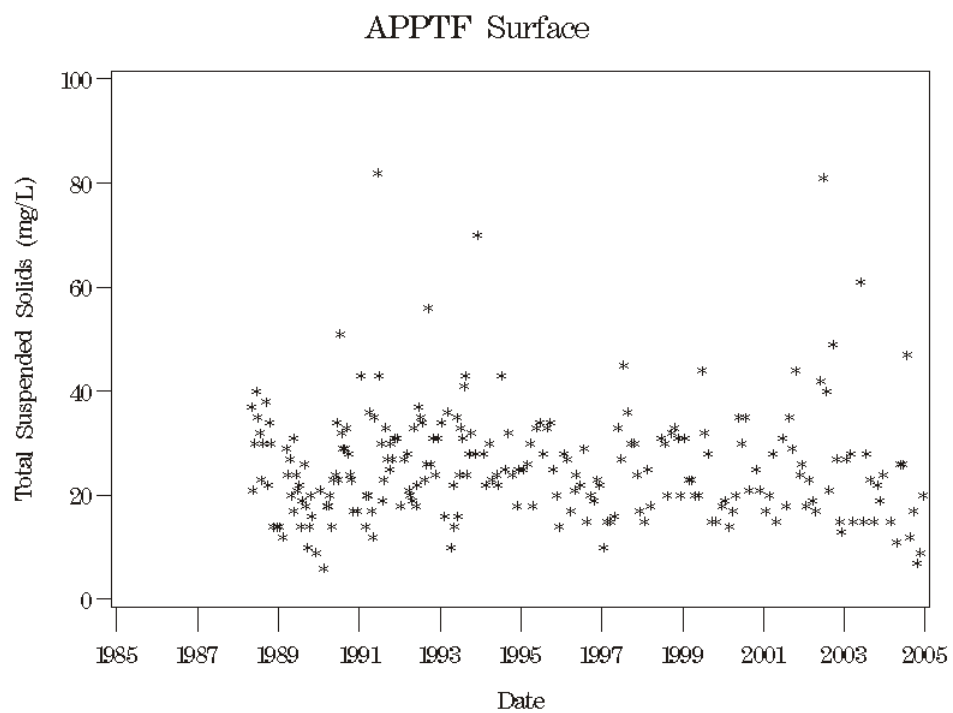


Figure 6. Scatterplot of surface total suspended solids at segment APPTF during the period 1985 to 2004.

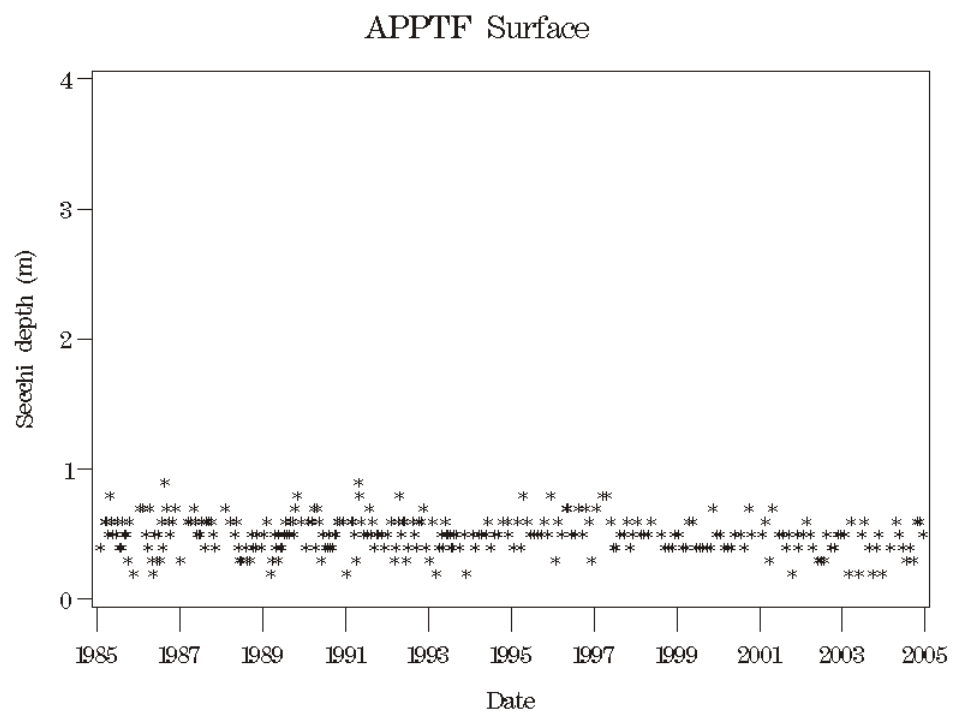


Figure 7. Scatterplot of secchi depth at segment APPTF during the period 1985 to 2004.

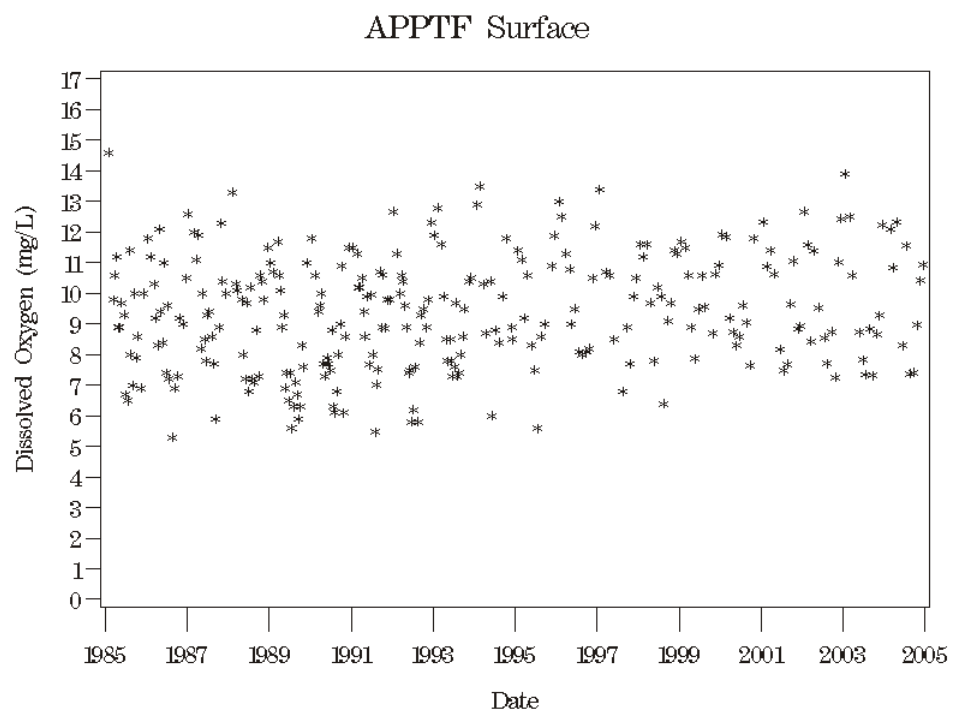


Figure 8. Scatterplot of surface dissolved oxygen at segment APPTF during the period 1985 to 2004.

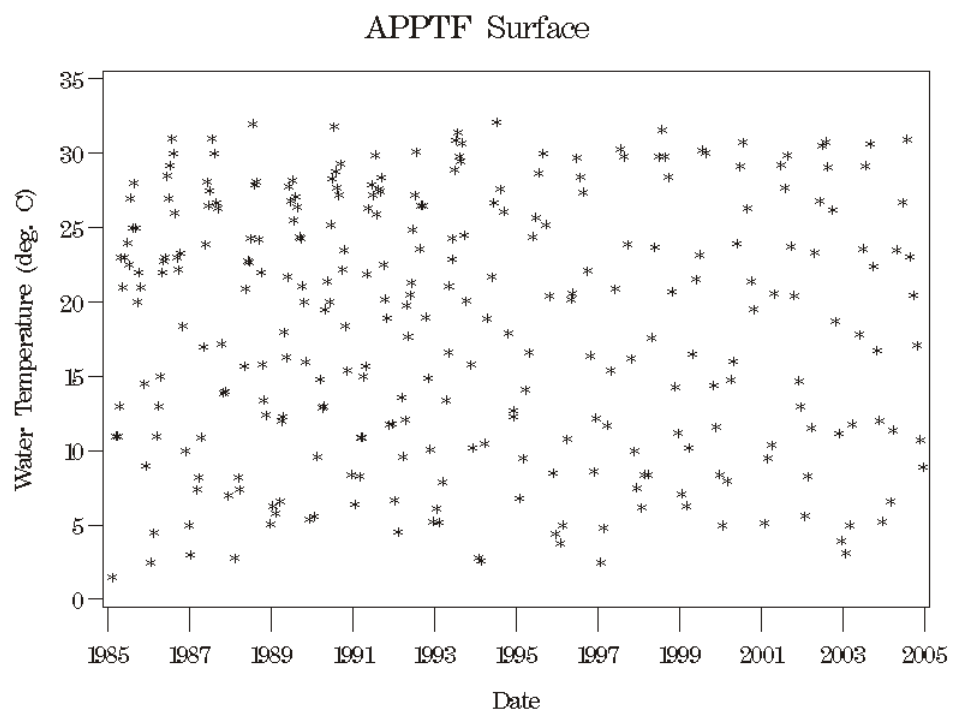


Figure 9. Scatterplot of surface water temperature at segment APPTF during the period 1985 to 2004.

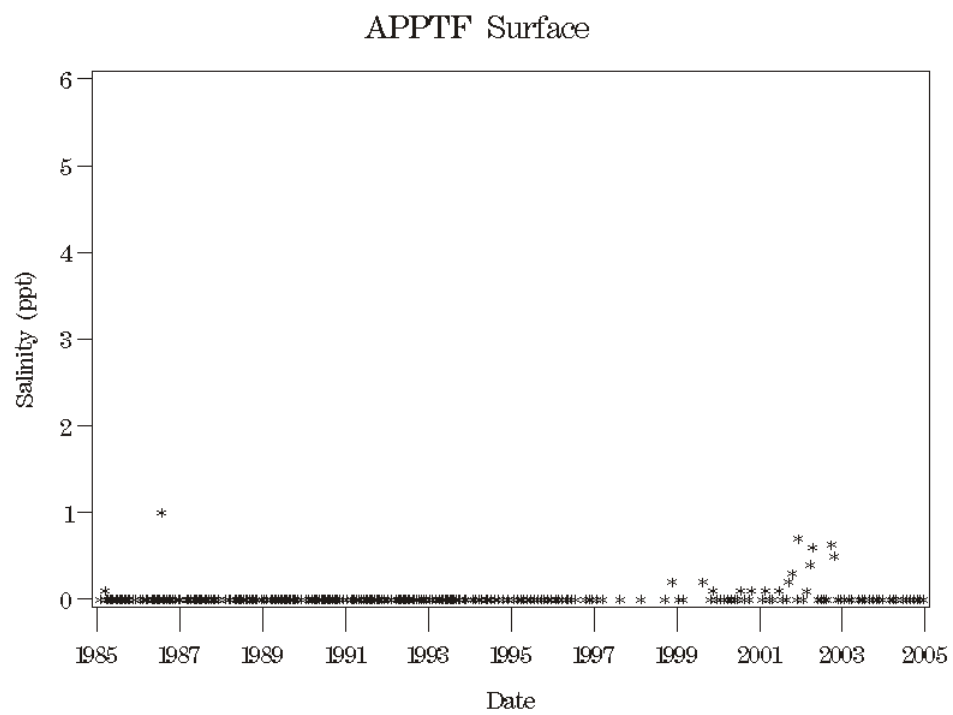
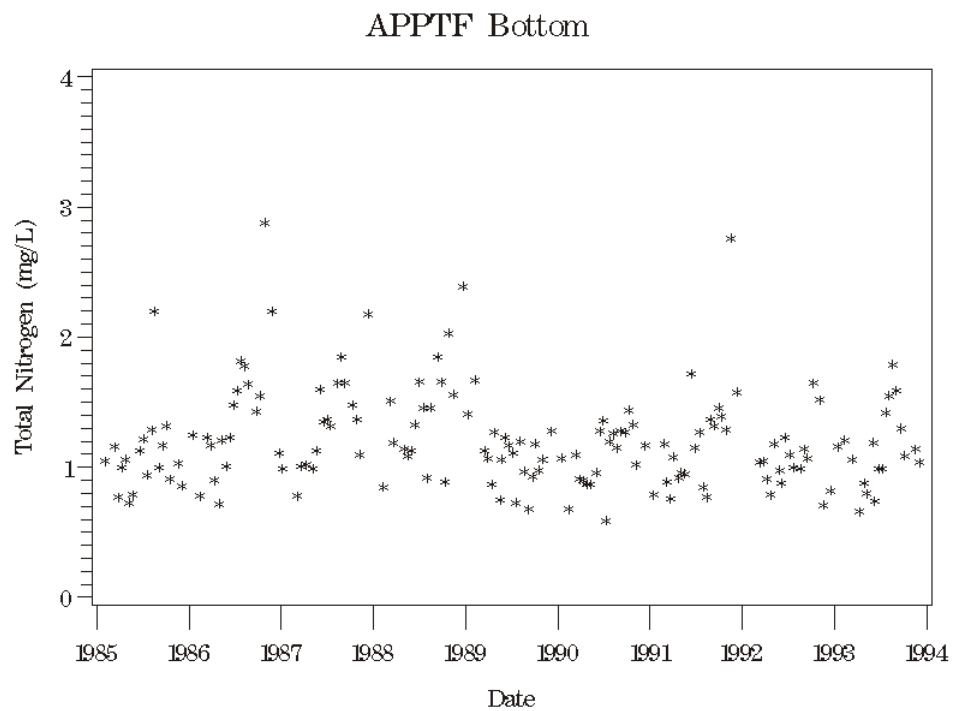


Figure 10. Scatterplot of surface salinity at segment APPTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

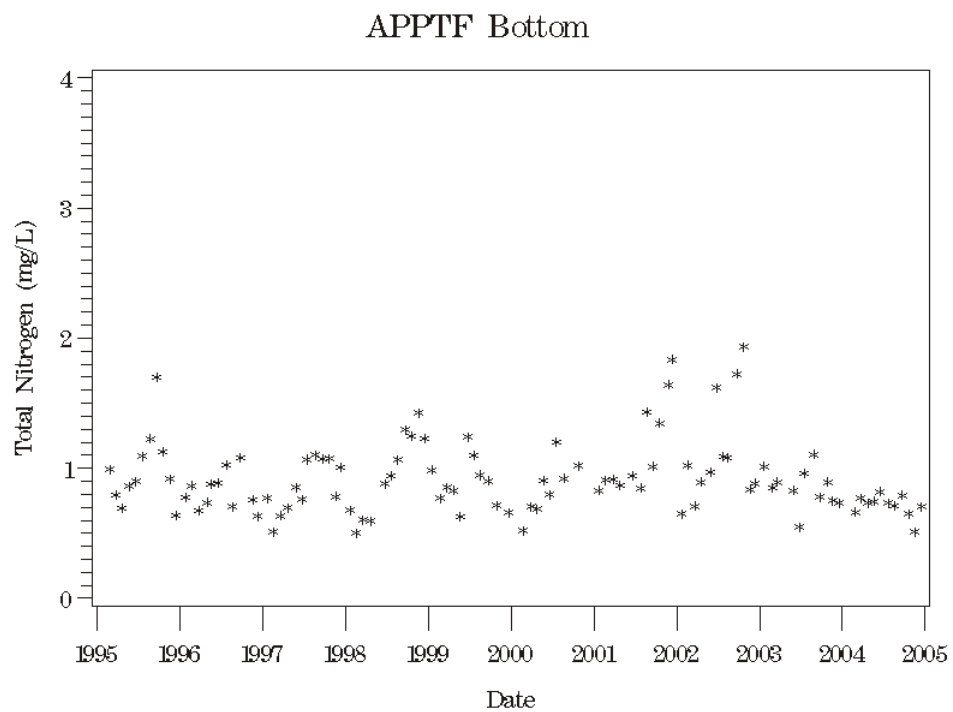
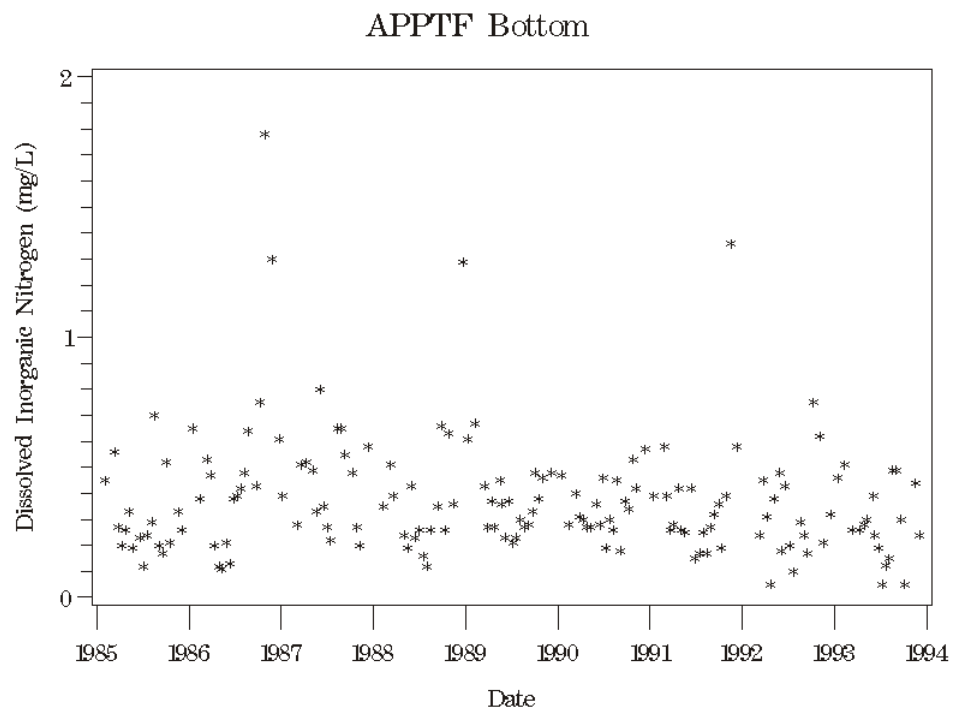


Figure 11. Scatterplots of bottom total nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

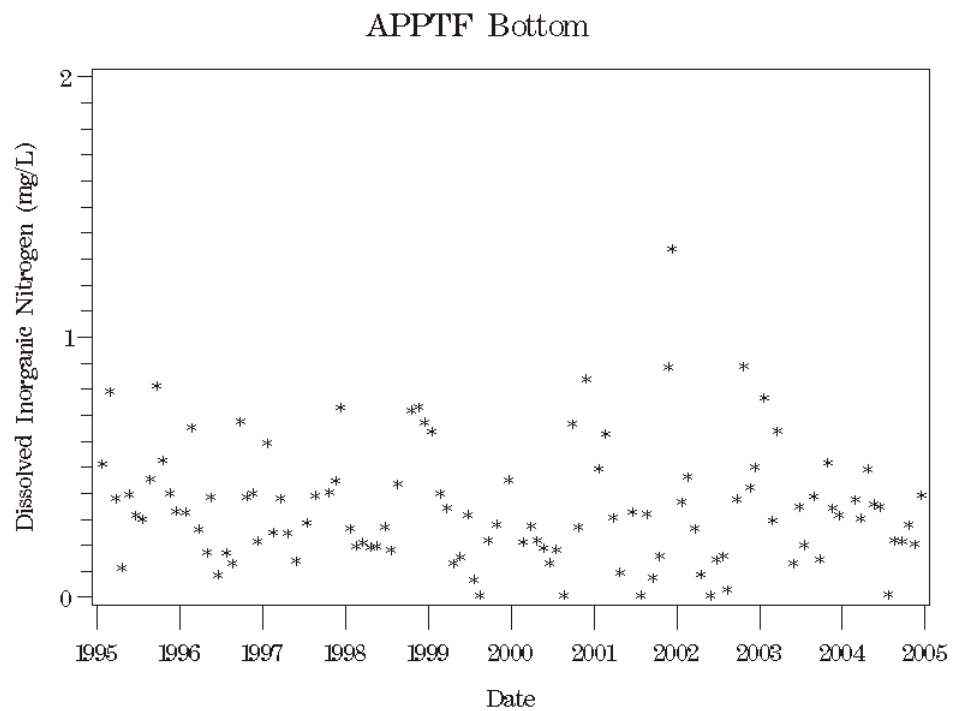
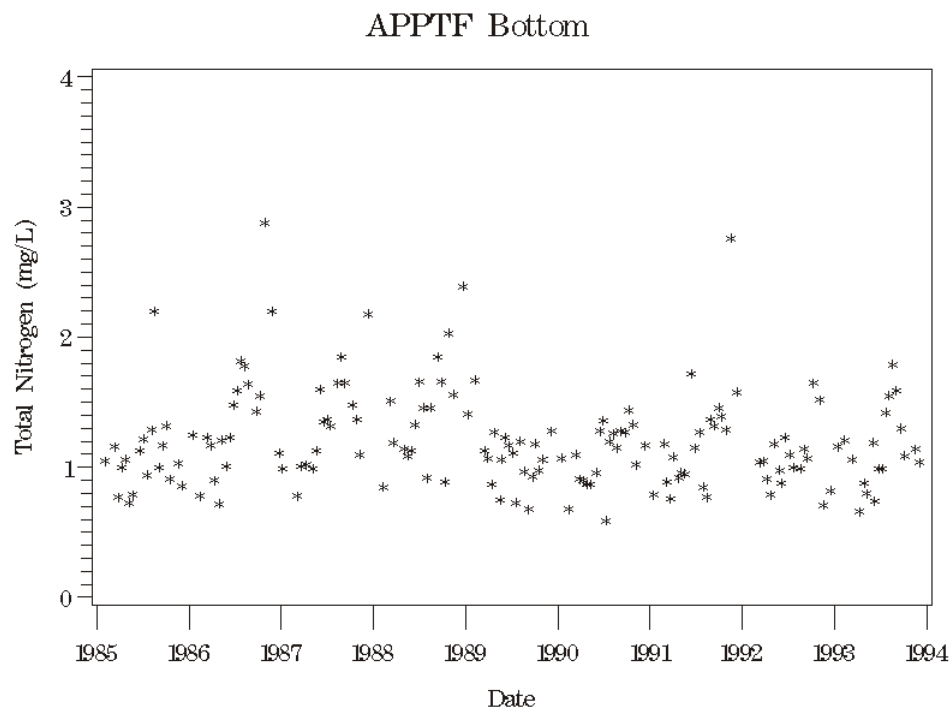


Figure 12. Scatterplots of bottom dissolved inorganic nitrogen at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

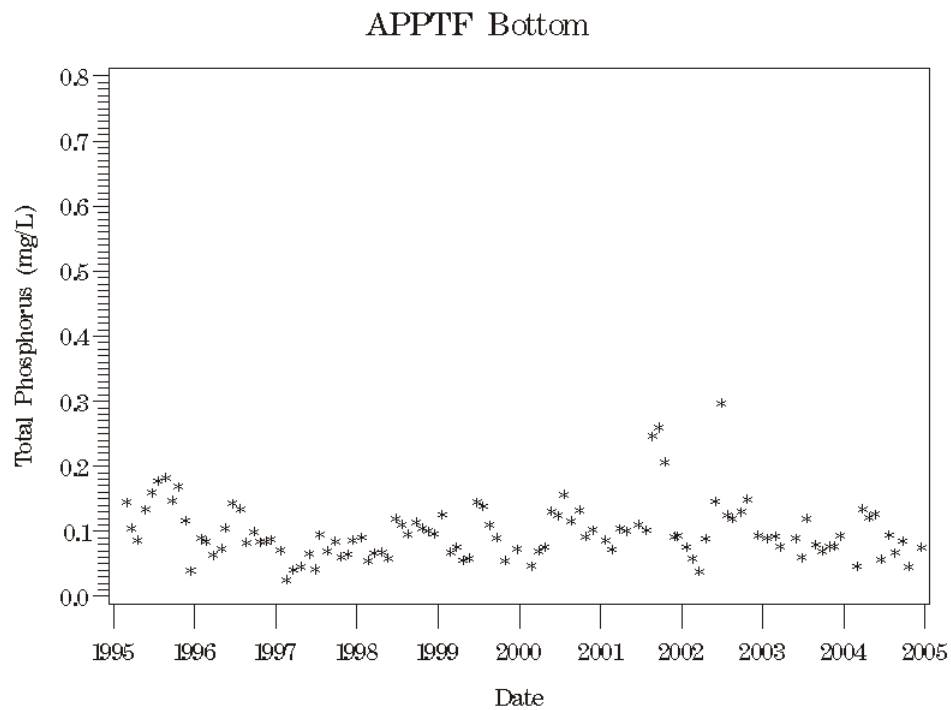
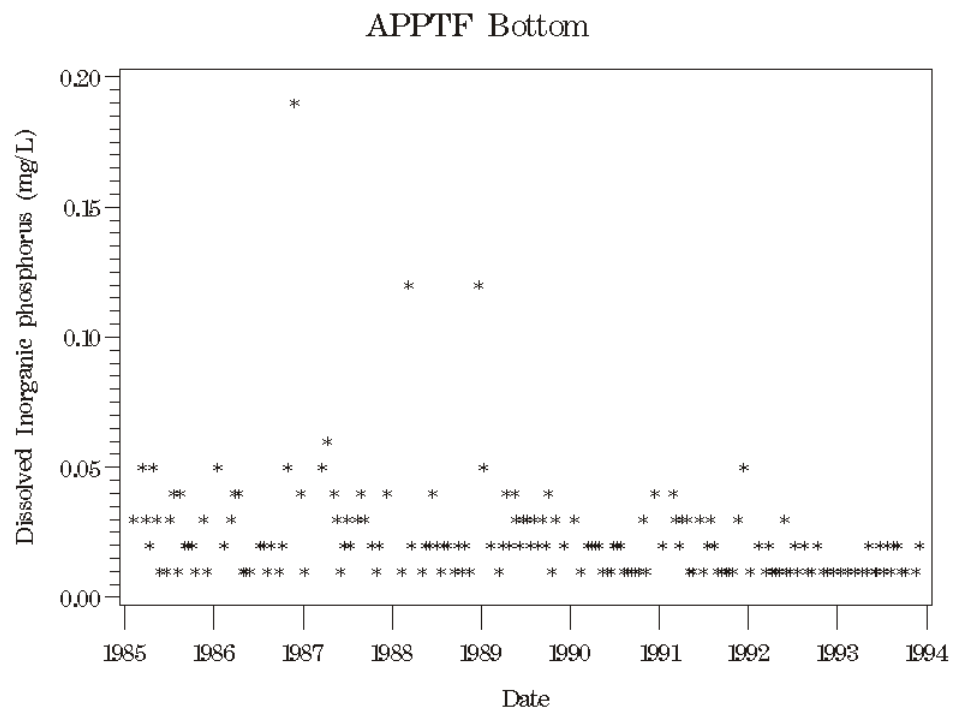


Figure 13. Scatterplots of bottom total phosphorus at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

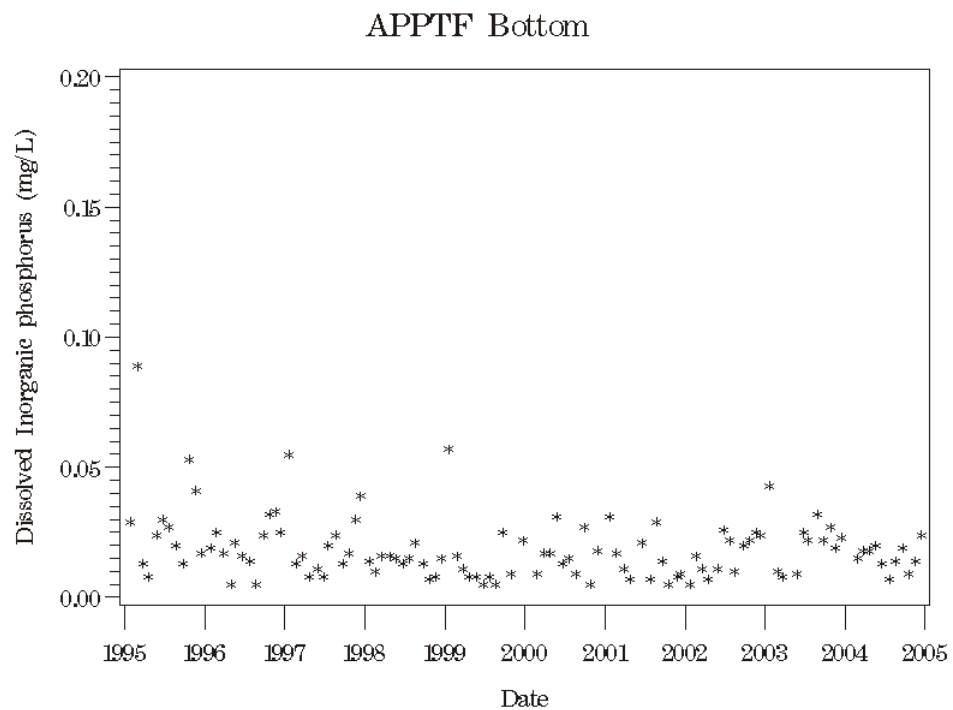


Figure 14. Scatterplots of bottom dissolved inorganic phosphorus at segment APPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

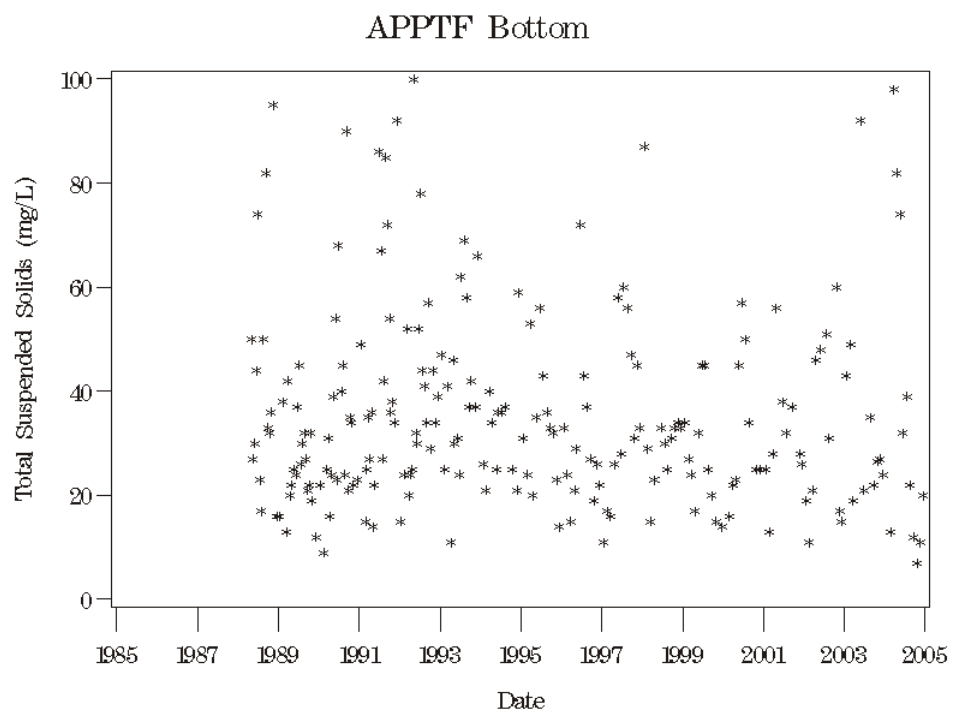


Figure 15. Scatterplot of bottom total suspended solids at segment APPTF during the period 1985 to 2004.

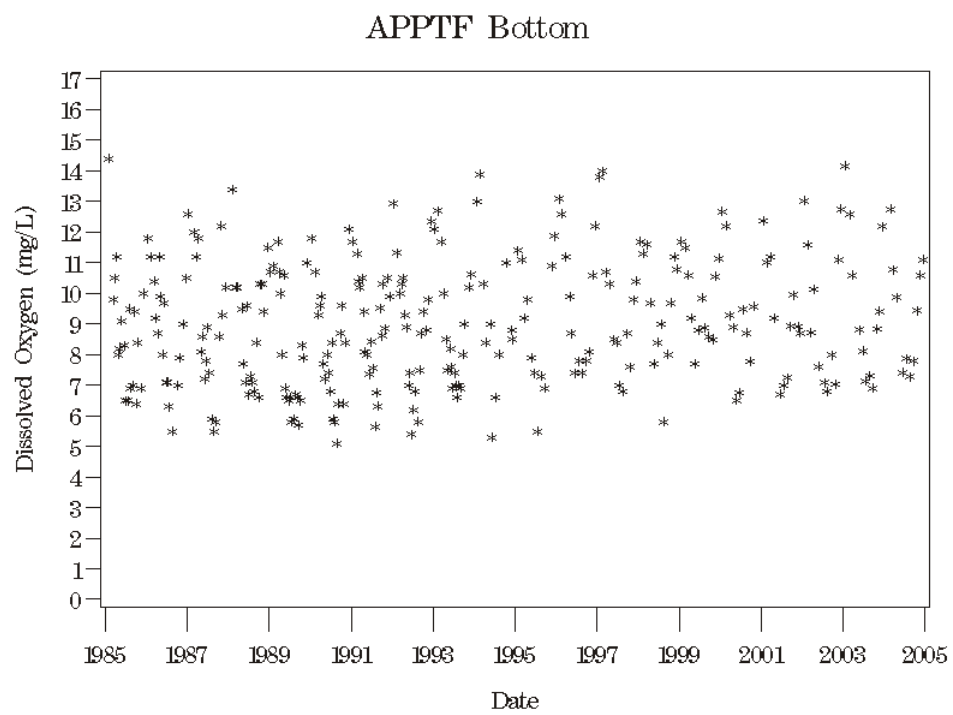


Figure 16. Scatterplot of bottom dissolved oxygen at segment APPTF during the period 1985 to 2004.

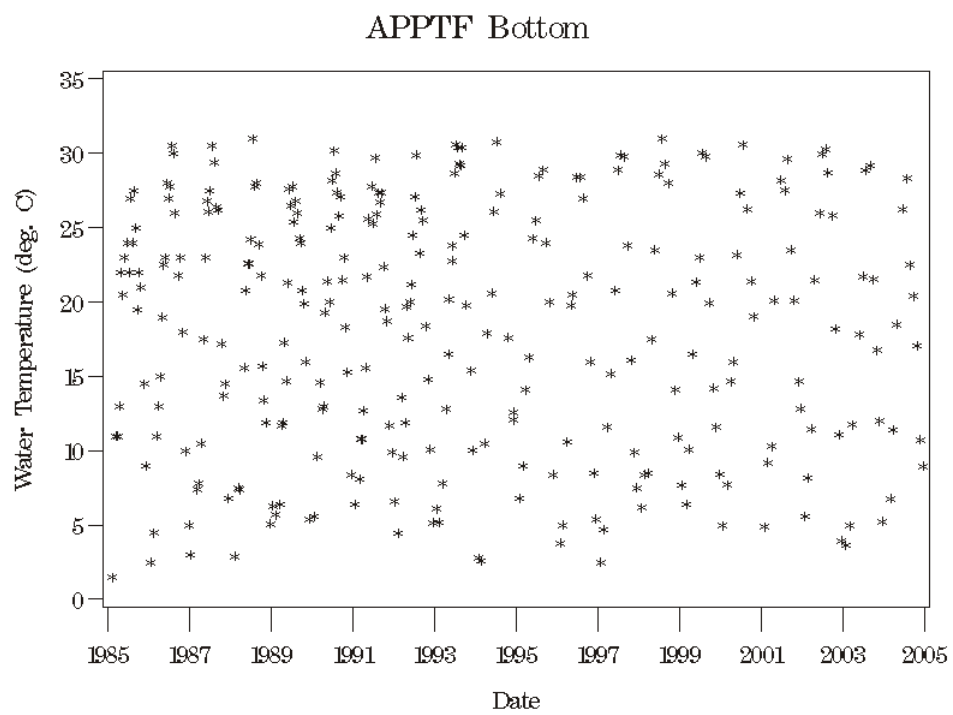


Figure 17. Scatterplot of bottom water temperature at segment APPTF during the period 1985 to 2004.

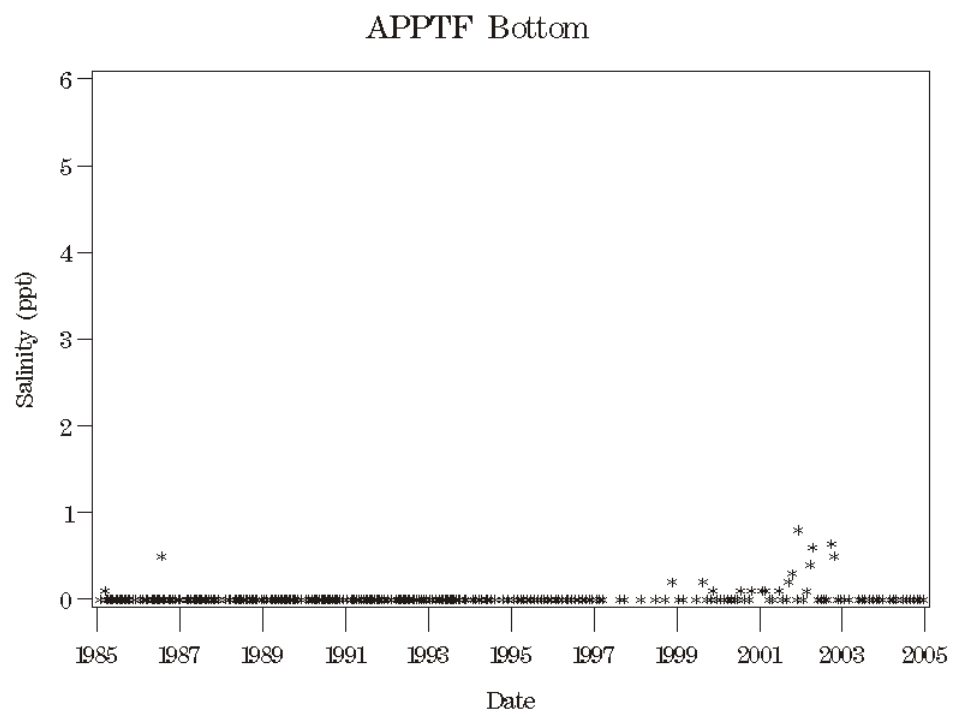
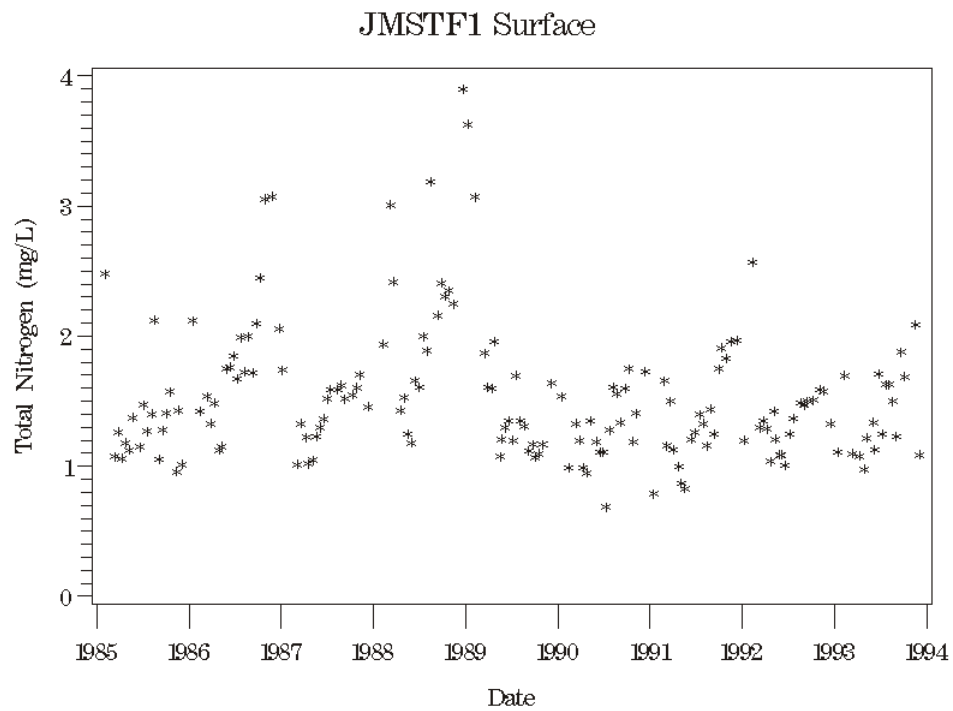


Figure 18. Scatterplot of bottom salinity at segment APPTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

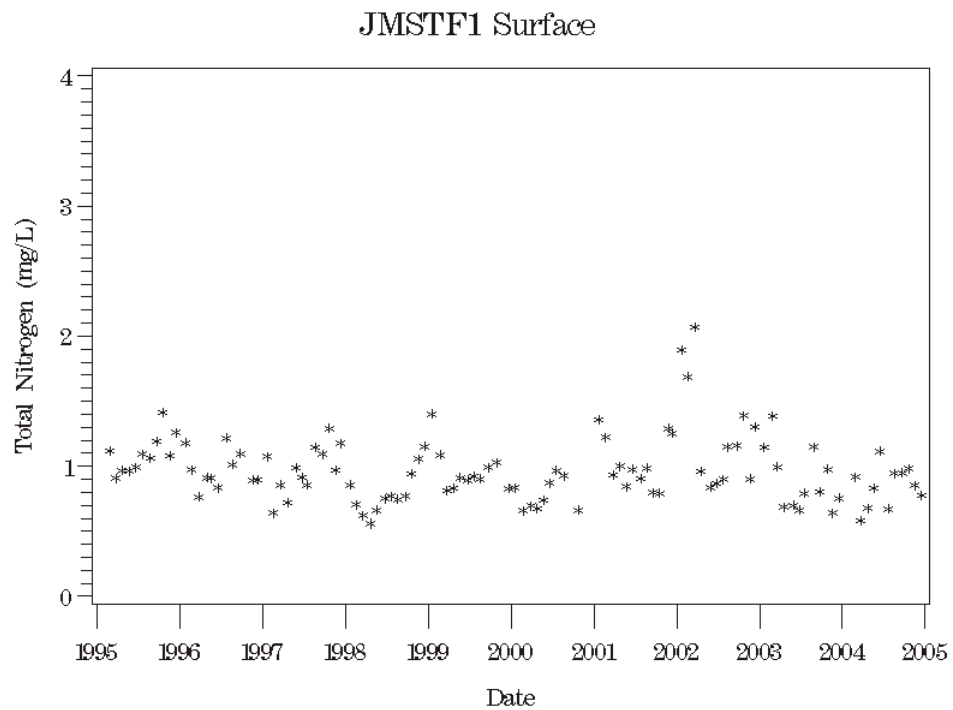
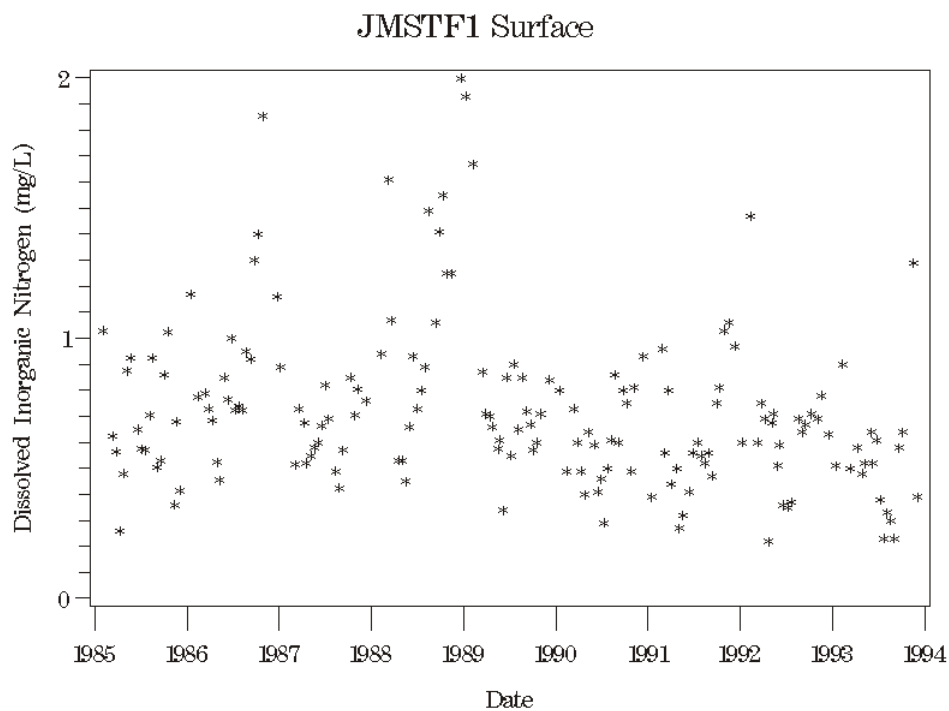


Figure 19. Scatterplots of surface total nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

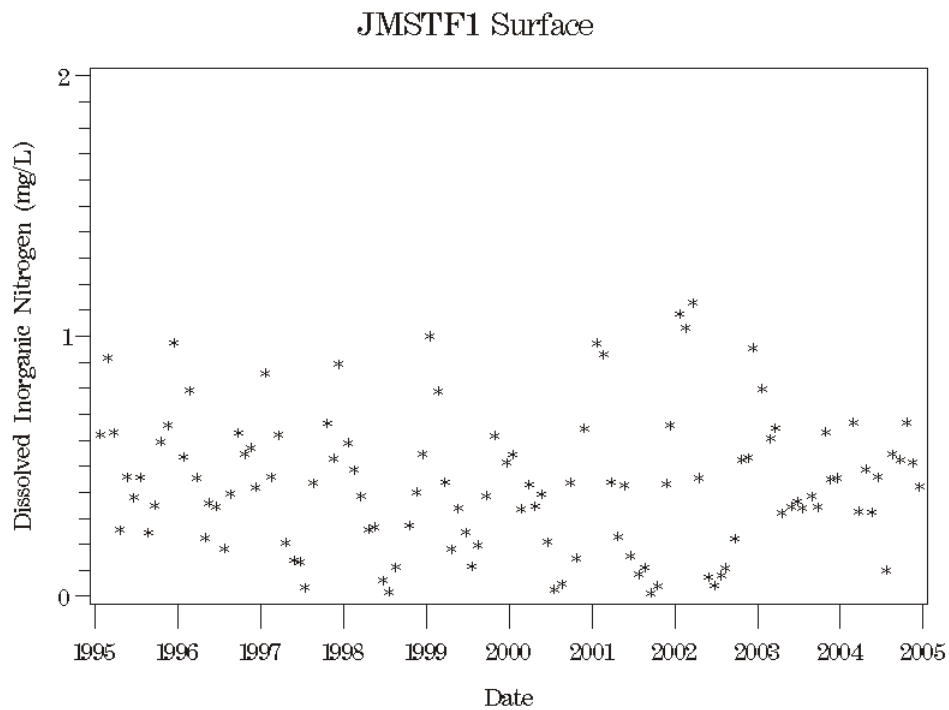
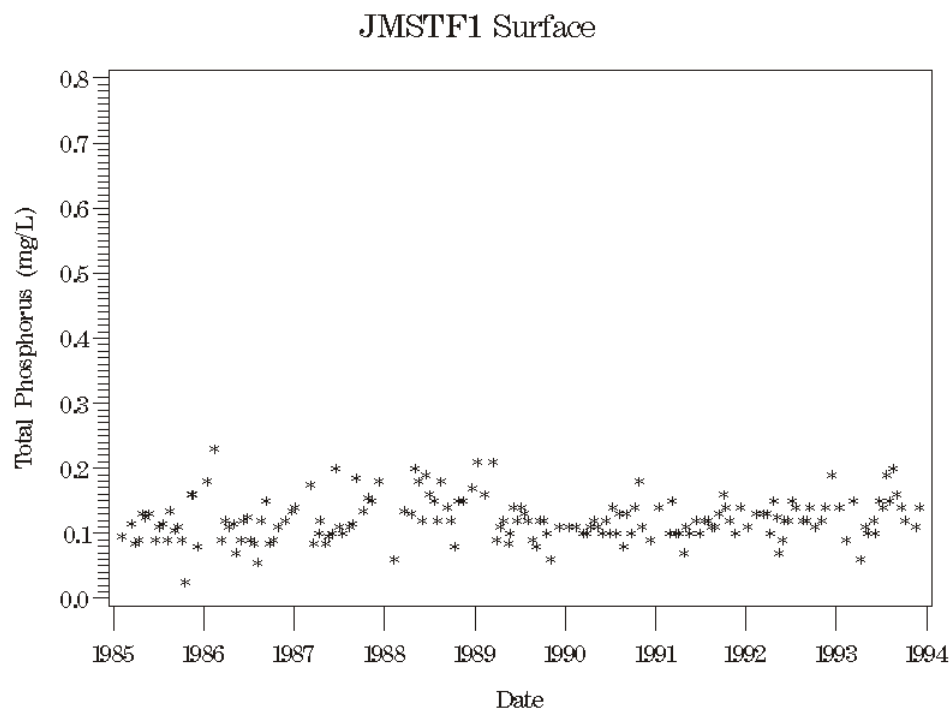


Figure 20. Scatterplots of surface dissolved inorganic nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

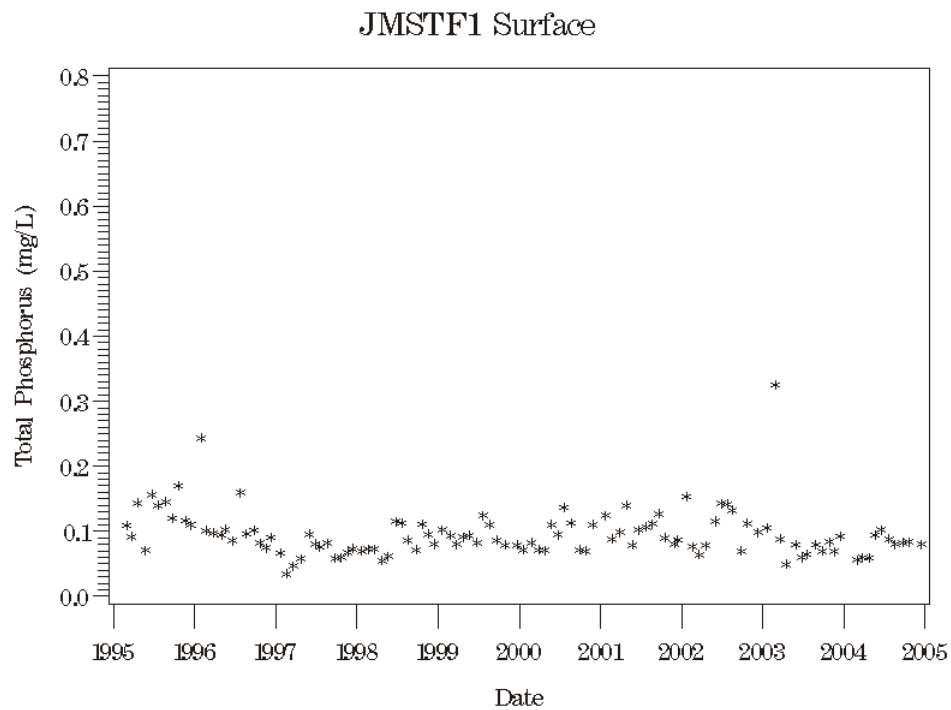
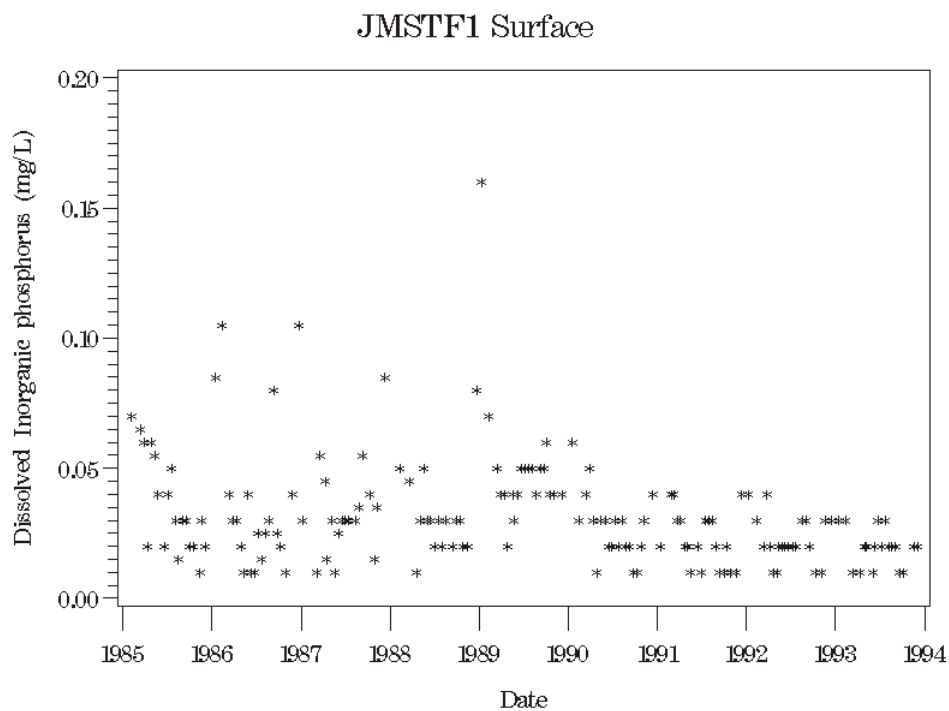


Figure 21. Scatterplots of surface total phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

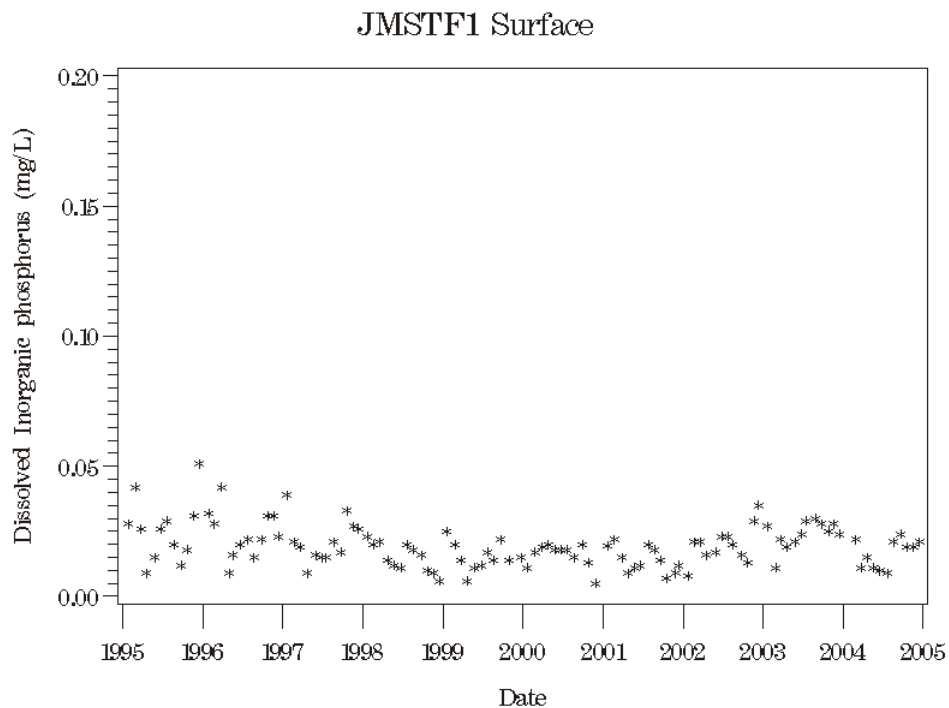


Figure 22. Scatterplots of surface dissolved inorganic phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

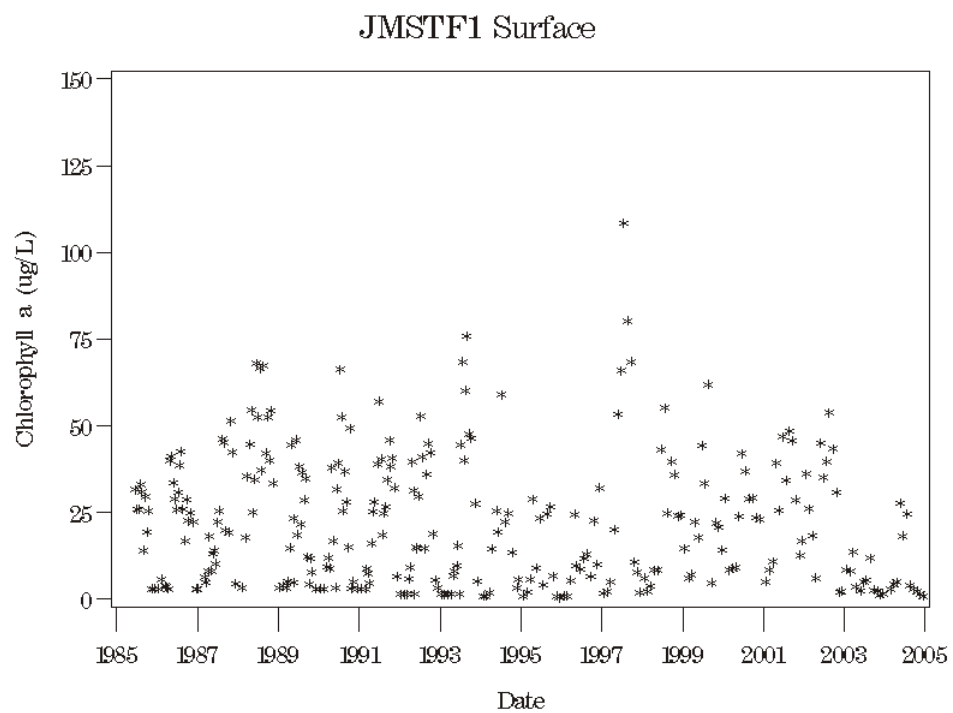


Figure 23. Scatterplot of surface chlorophyll *a* at segment JMSTF1 during the period 1985 to 2004.

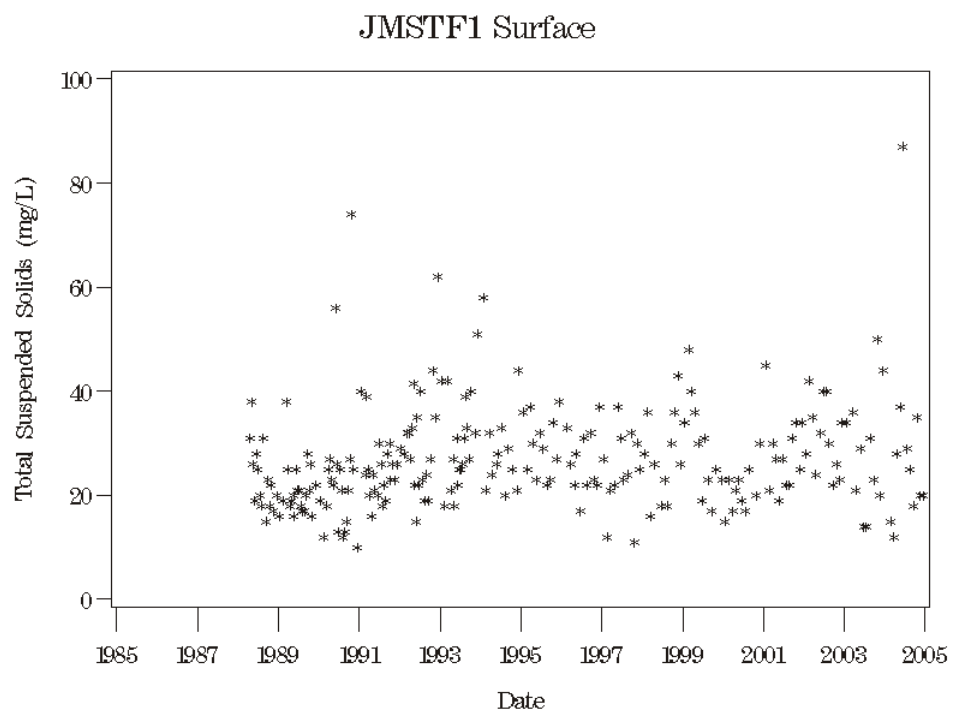


Figure 24. Scatterplot of surface total suspended solids at segment JMSTF1 during the period 1985 to 2004.

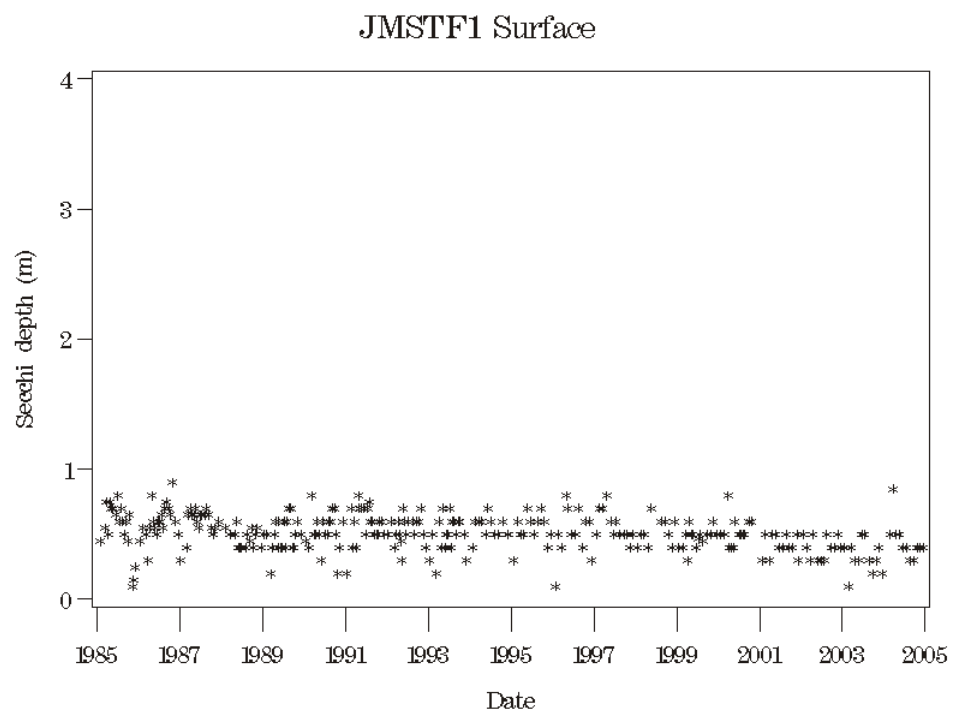


Figure 25. Scatterplot of secchi depth at segment JMSTF1 during the period 1985 to 2004.

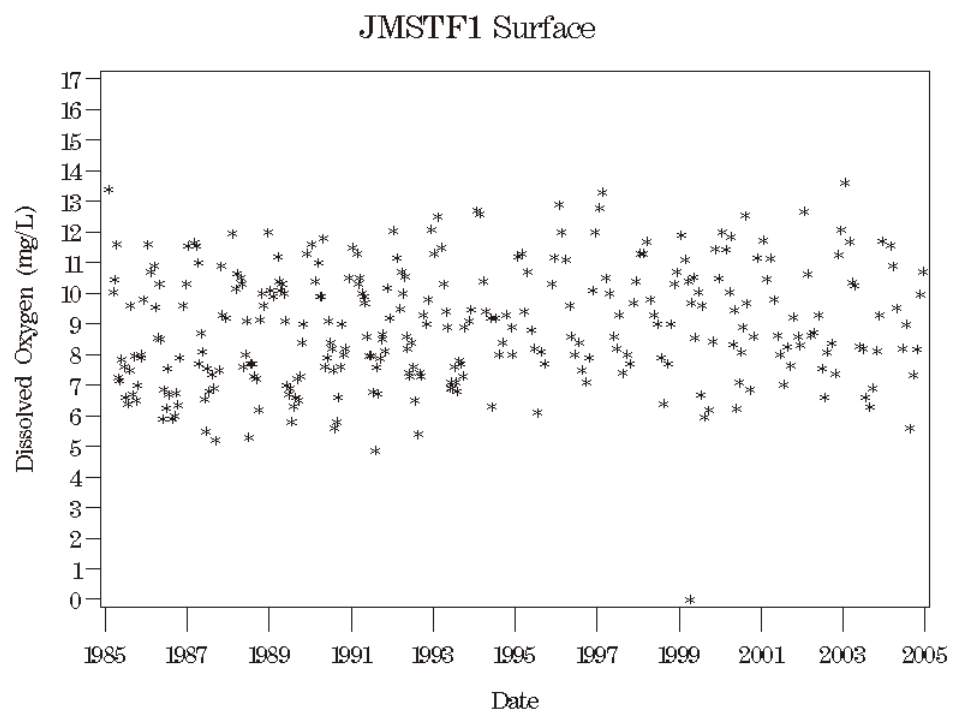


Figure 26. Scatterplot of surface dissolved oxygen at segment JMSTF1 during the period 1985 to 2004.

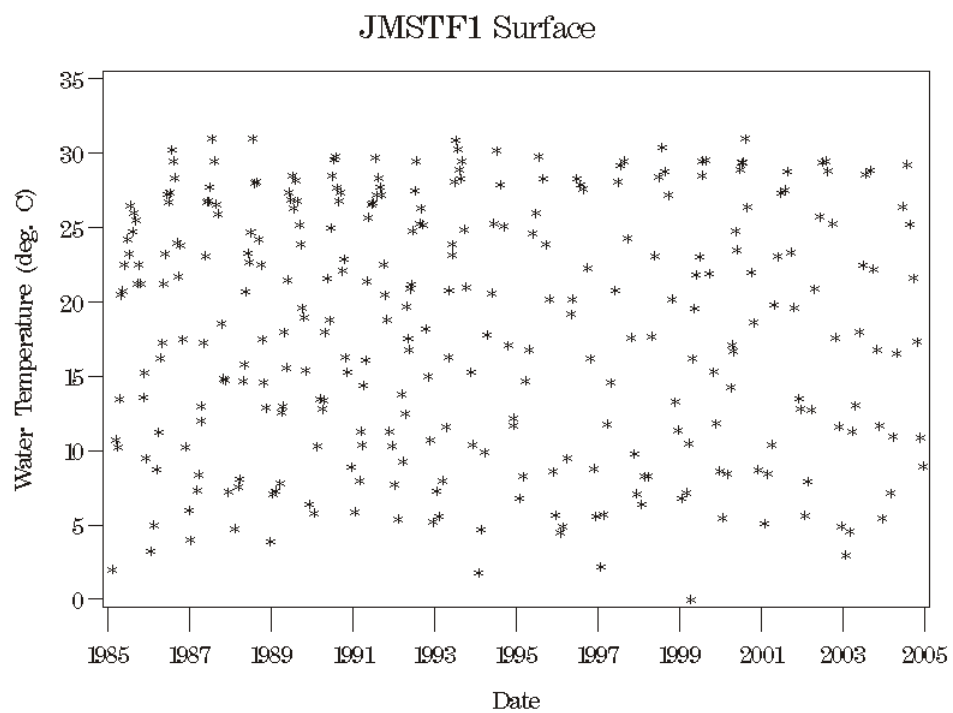


Figure 27. Scatterplot of surface water temperature at segment JMSTF1 during the period 1985 to 2004.

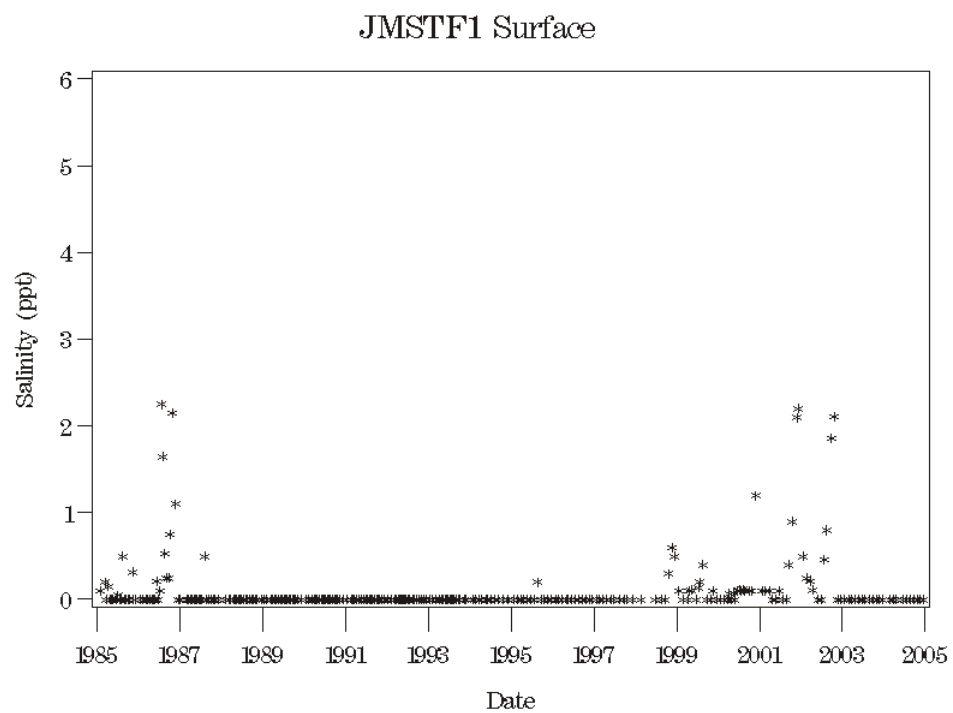
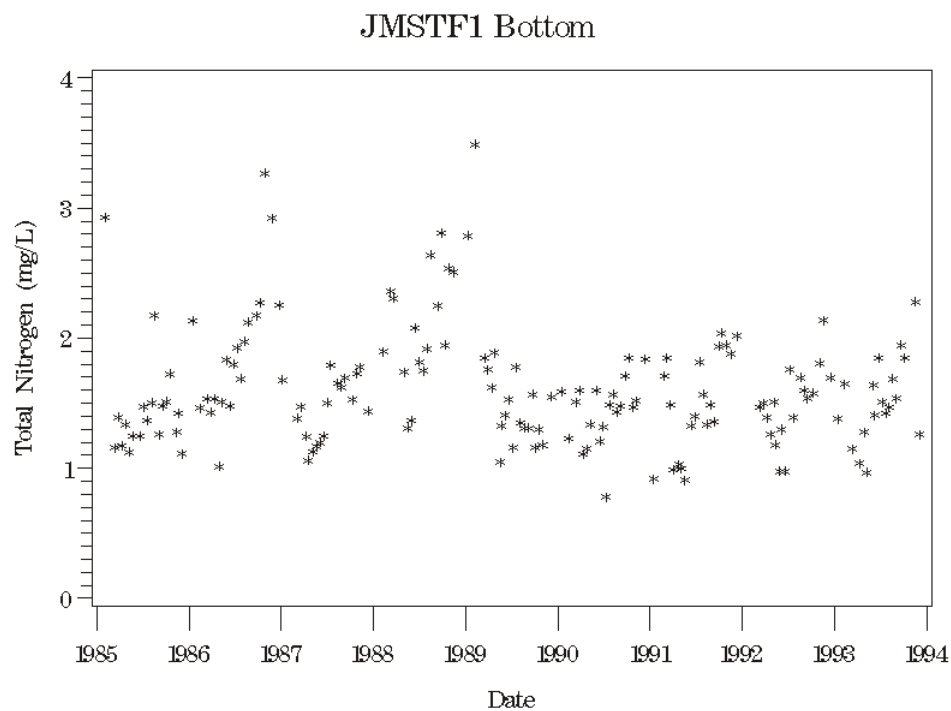


Figure 28. Scatterplot of surface salinity at segment JMSTF1 during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

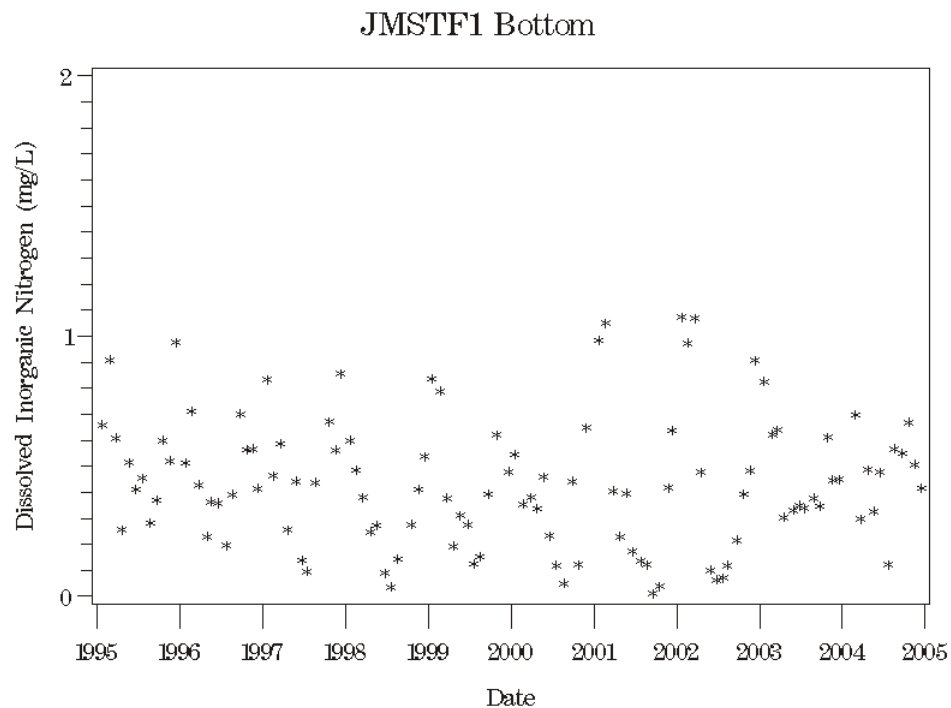
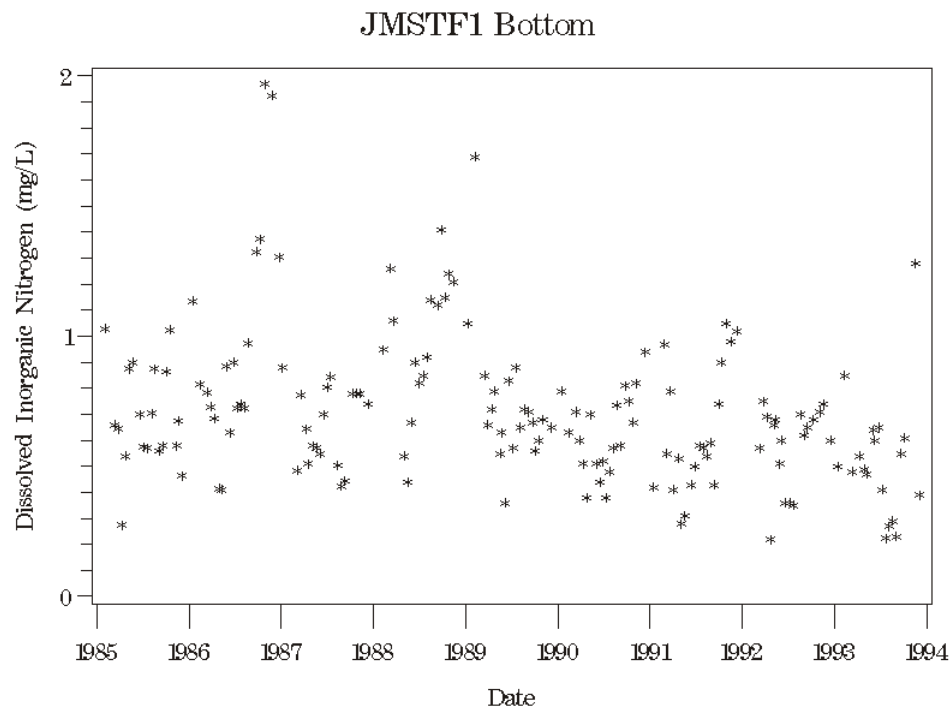


Figure 29. Scatterplots of bottom total nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

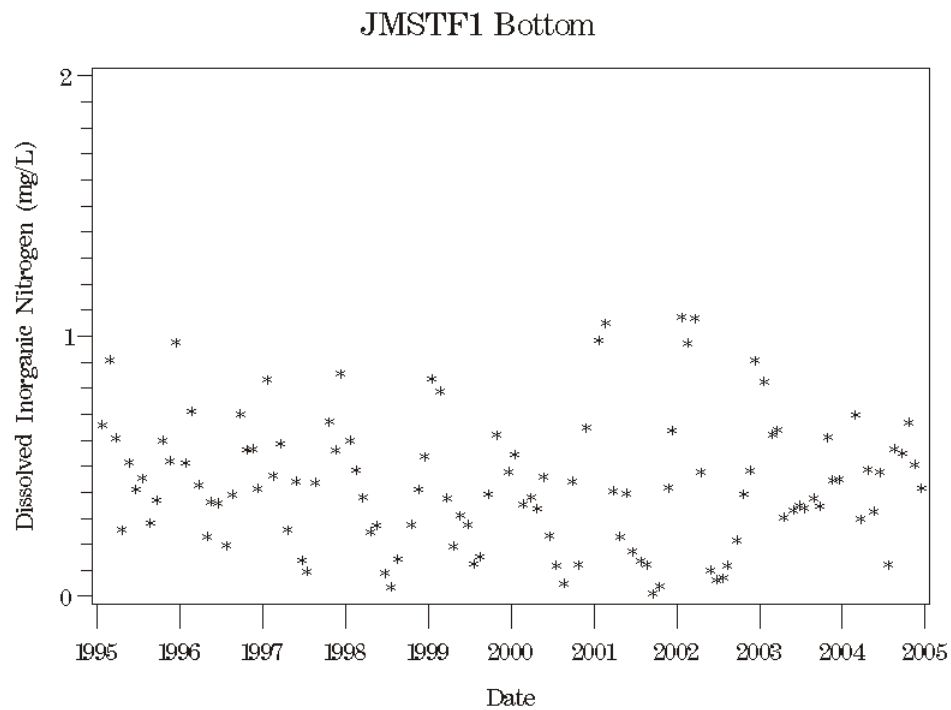
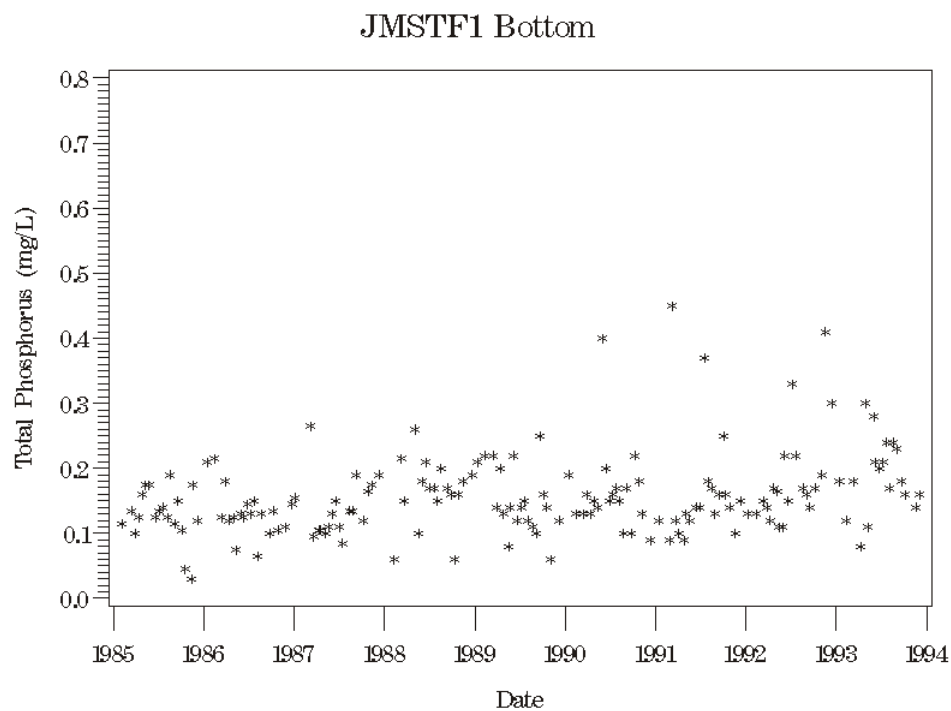


Figure 30. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

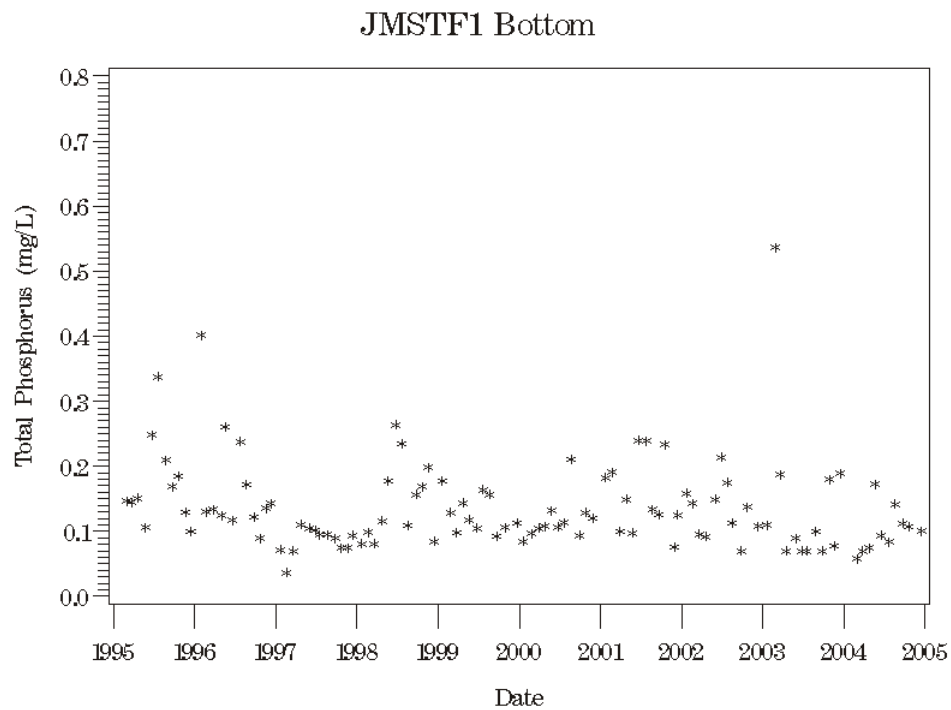
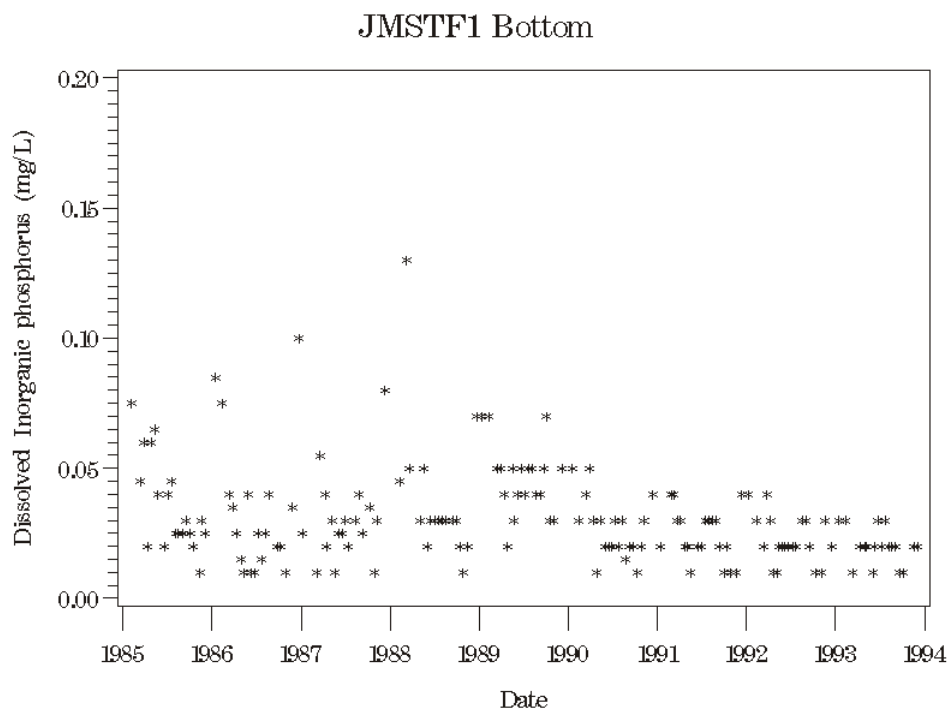


Figure 31. Scatterplots of bottom total phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

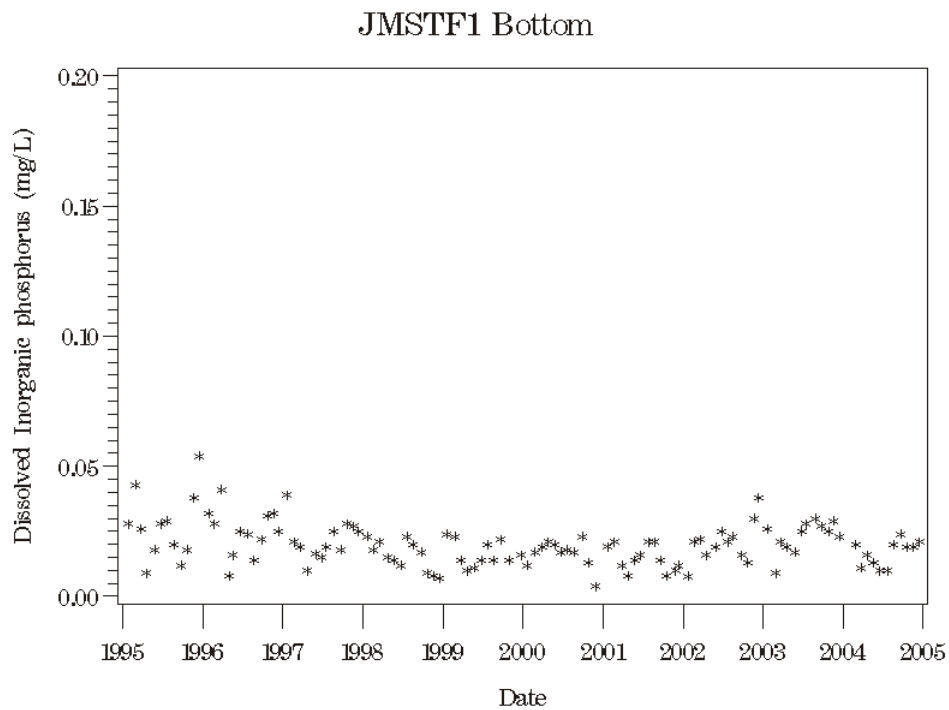


Figure 32. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSTF1 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

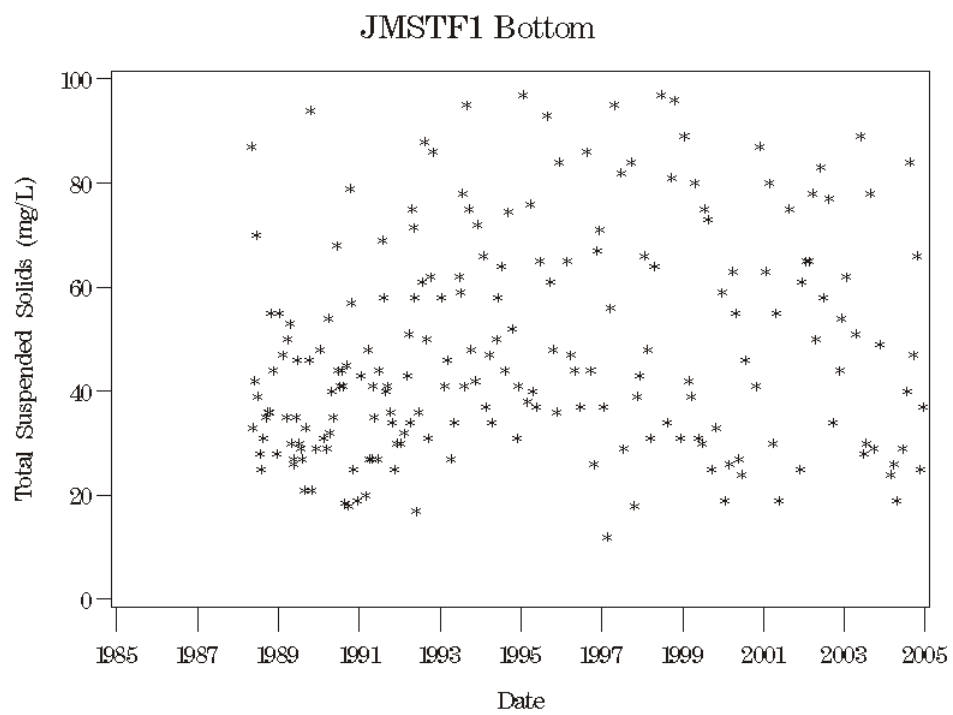


Figure 33. Scatterplot of bottom total suspended solids at segment JMSTF1 during the period 1985 to 2004.

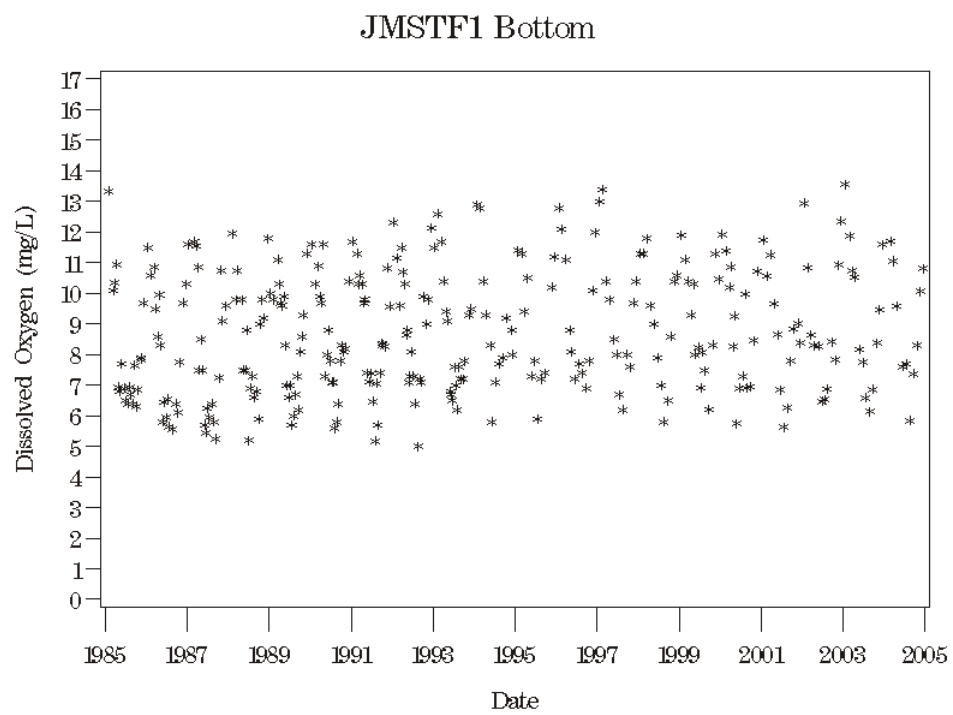


Figure 34. Scatterplot of bottom dissolved oxygen at segment JMSTF1 during the period 1985 to 2004.

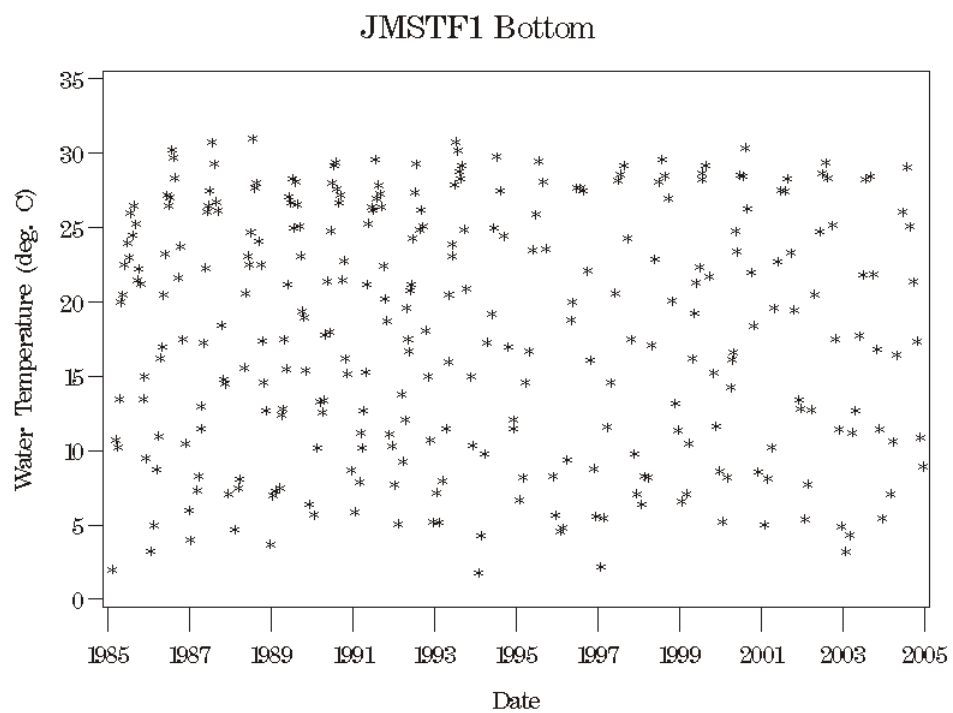


Figure 35. Scatterplot of bottom water temperature at segment JMSTF1 during the period 1985 to 2004.

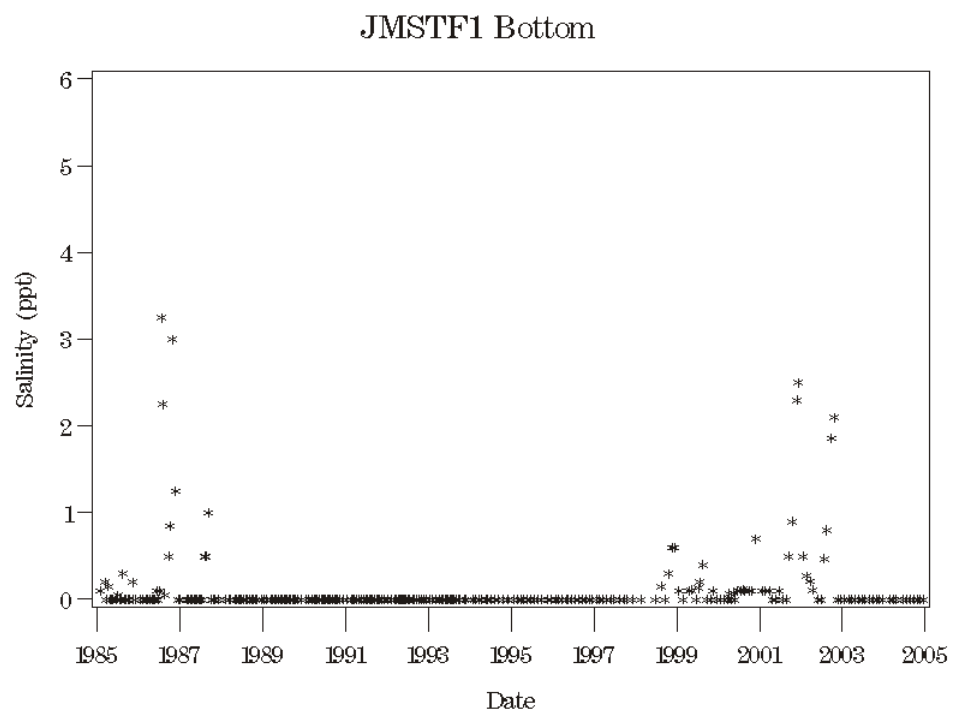
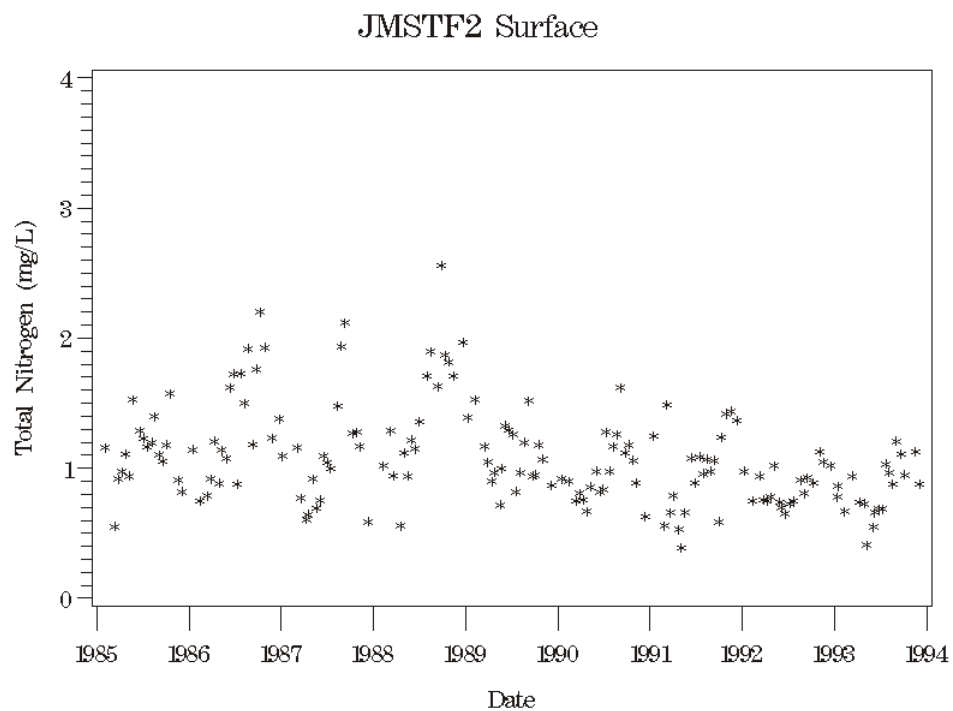


Figure 36. Scatterplot of bottom salinity at segment JMSTF1 during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

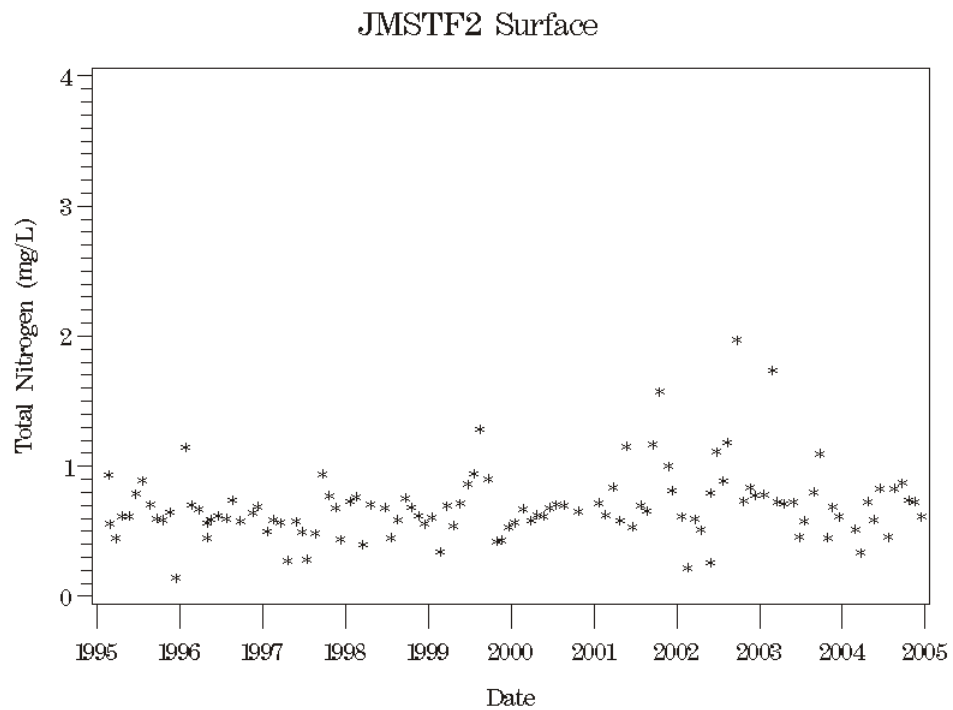
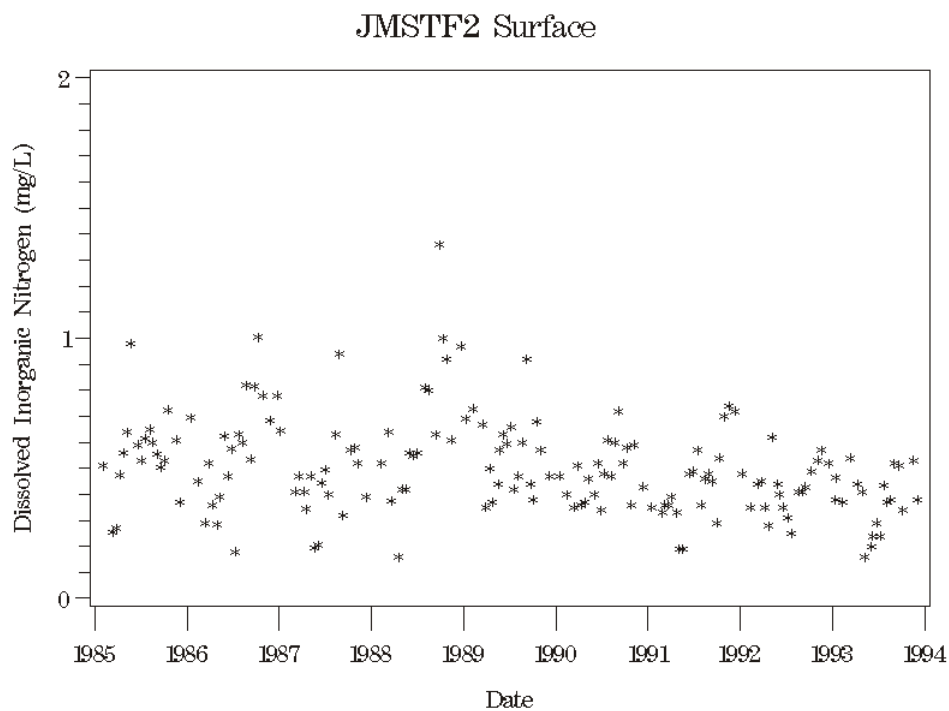


Figure 37. Scatterplots of surface total nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

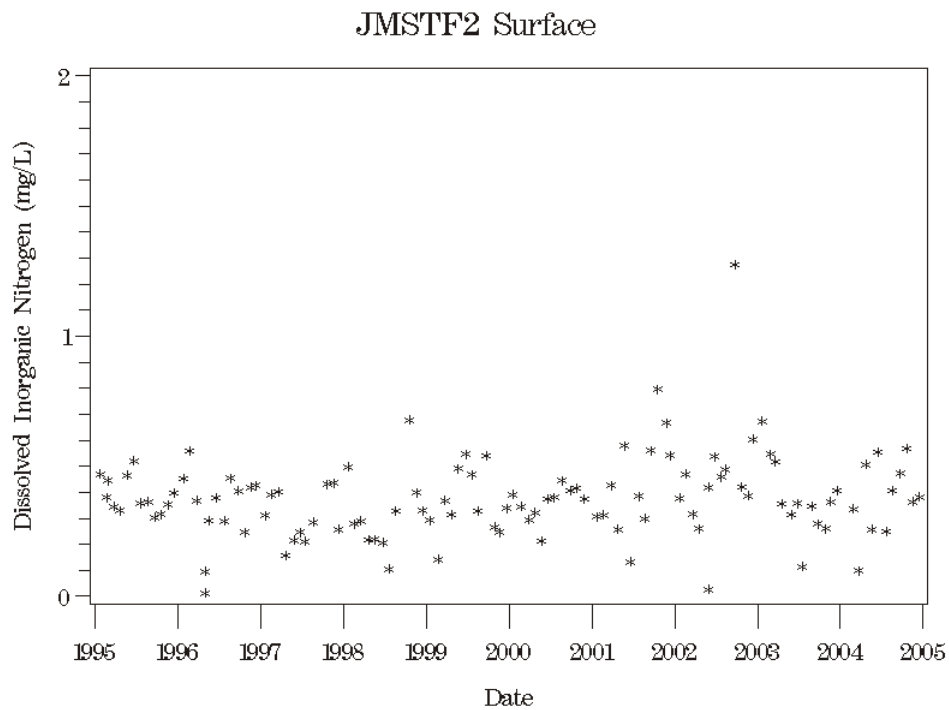
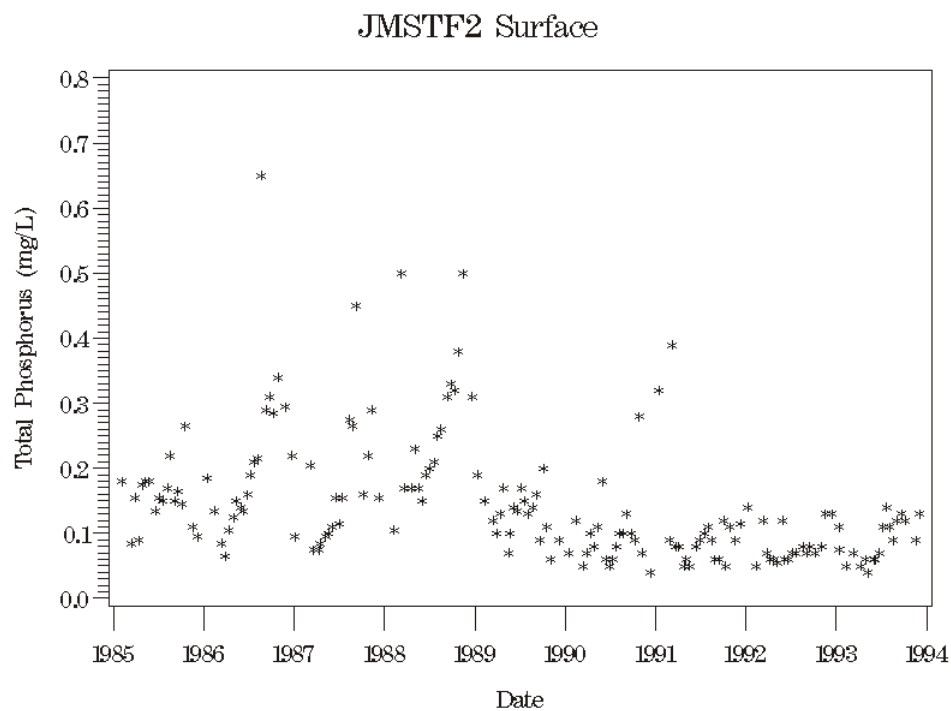


Figure 38. Scatterplots of surface dissolved inorganic nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

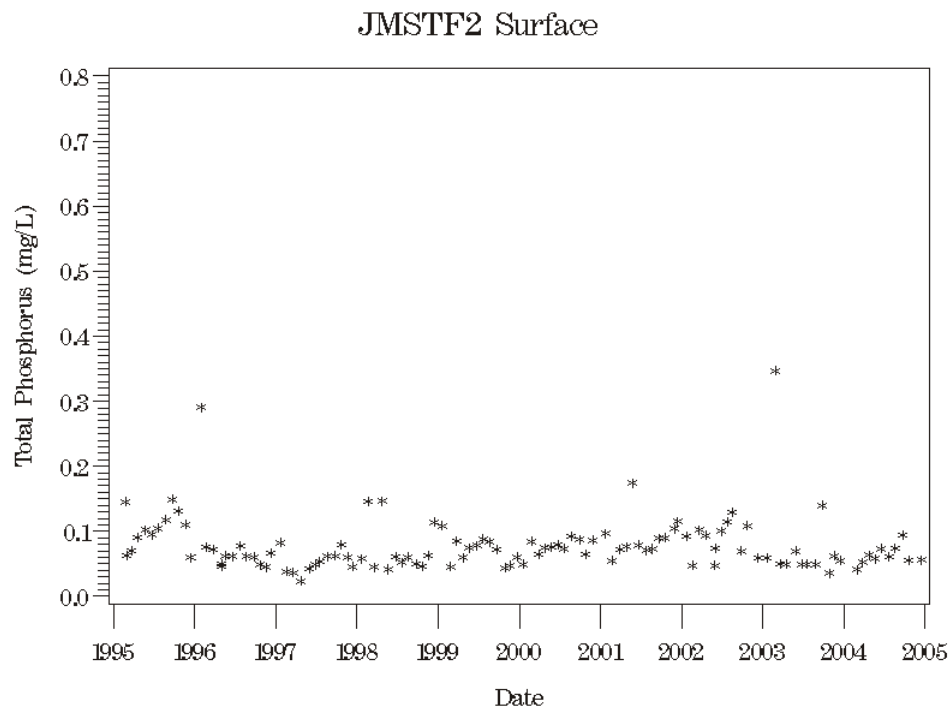
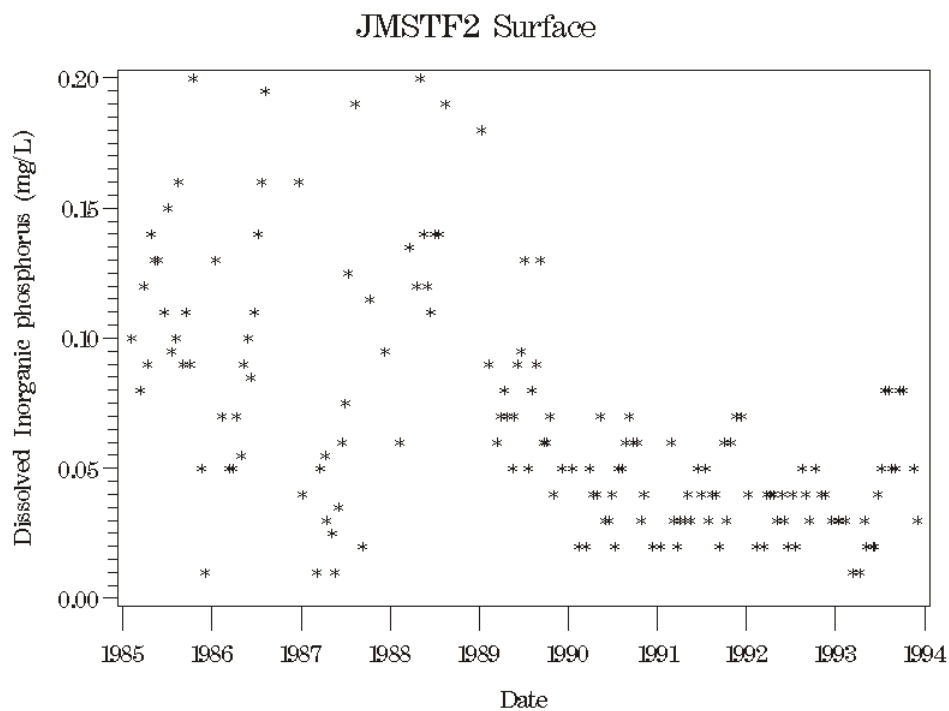


Figure 39. Scatterplots of surface total phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

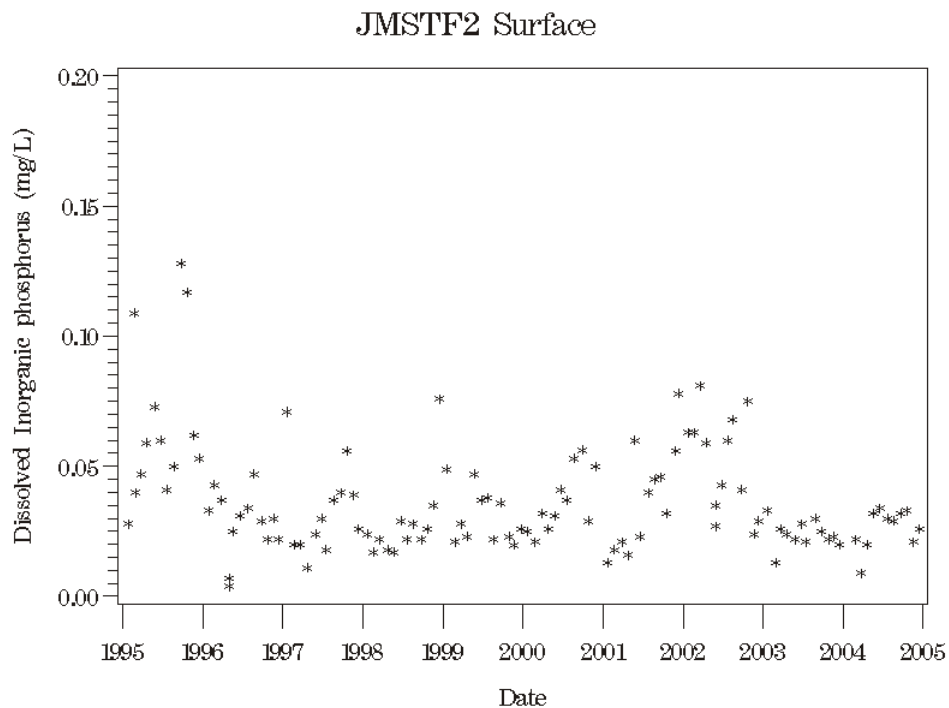


Figure 40. Scatterplots of surface dissolved inorganic phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

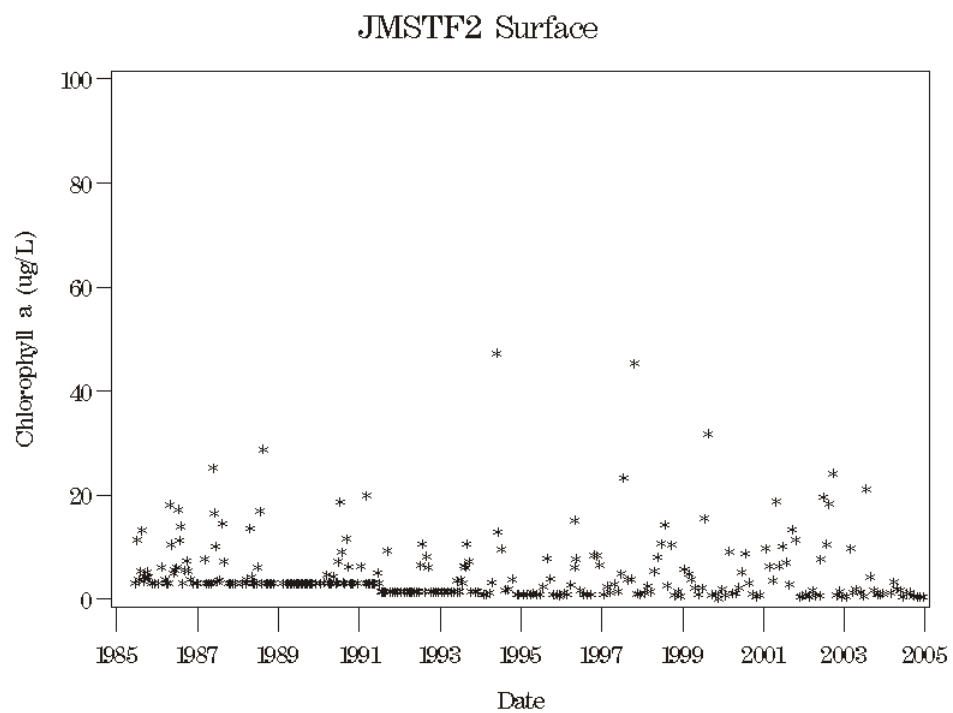


Figure 41. Scatterplot of surface chlorophyll *a* at segment JMSTF2 during the period 1985 to 2004.

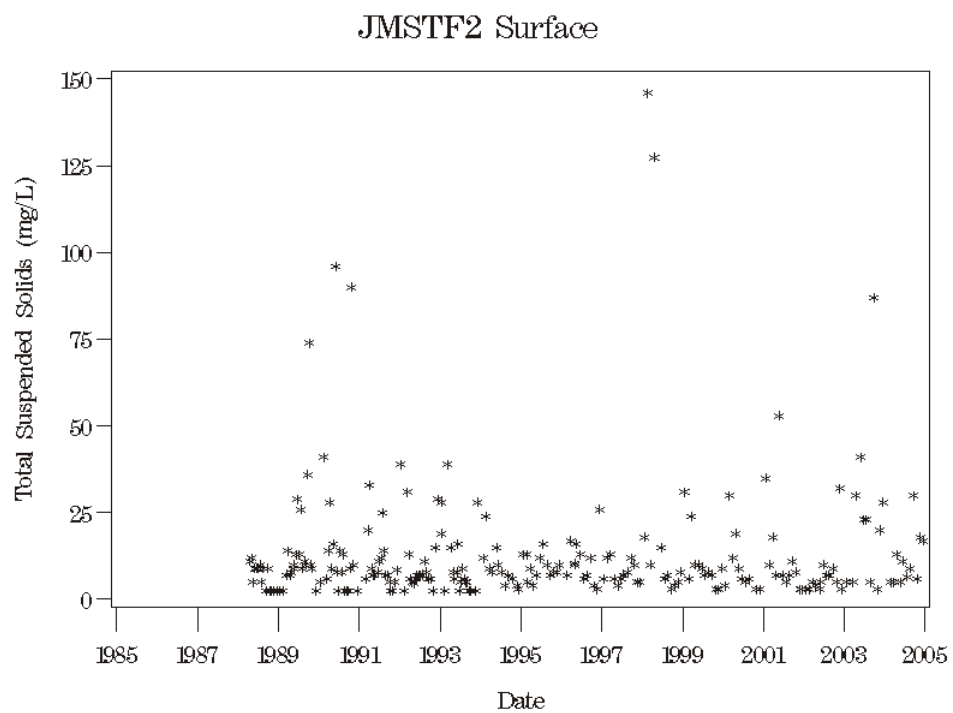


Figure 42. Scatterplot of surface total suspended solids at segment JMSTF2 during the period 1985 to 2004.

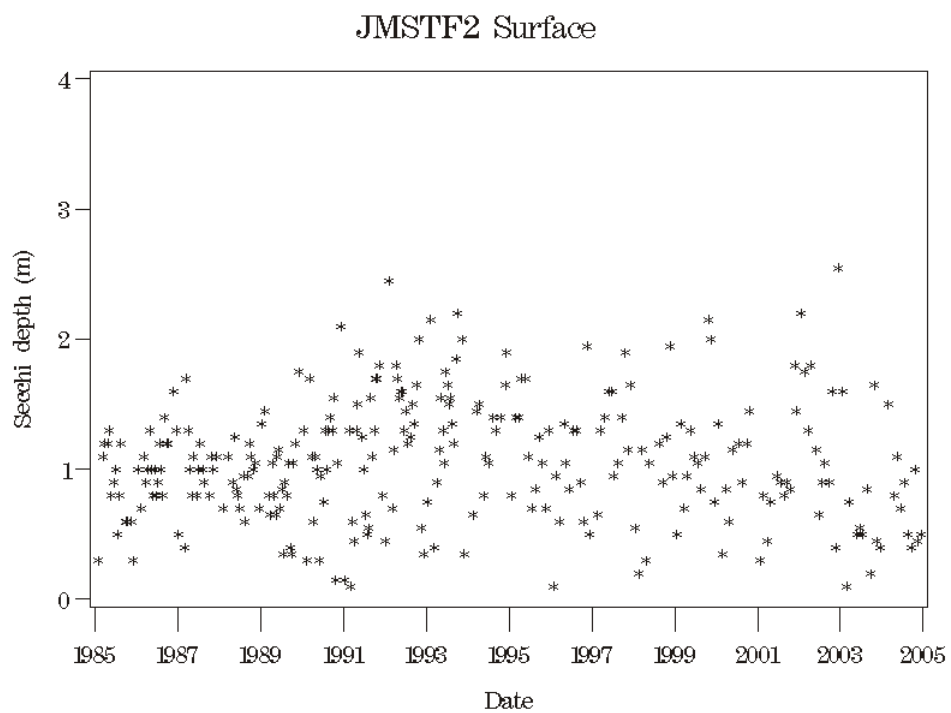


Figure 43. Scatterplot of secchi depth at segment JMSTF2 during the period 1985 to 2004.

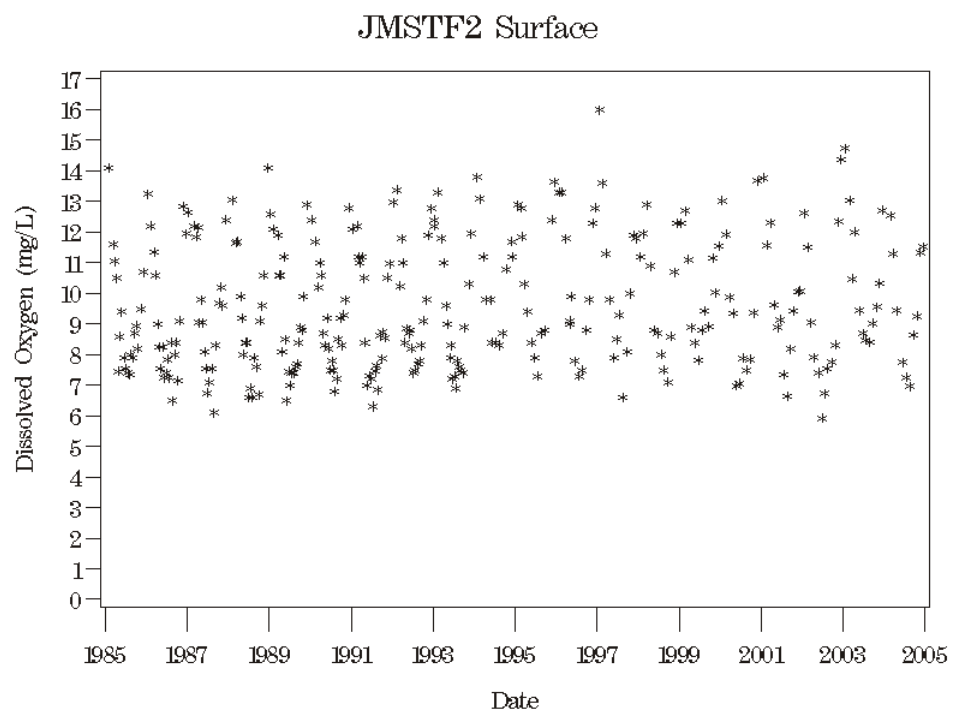


Figure 44. Scatterplot of surface dissolved oxygen at segment JMSTF2 during the period 1985 to 2004.

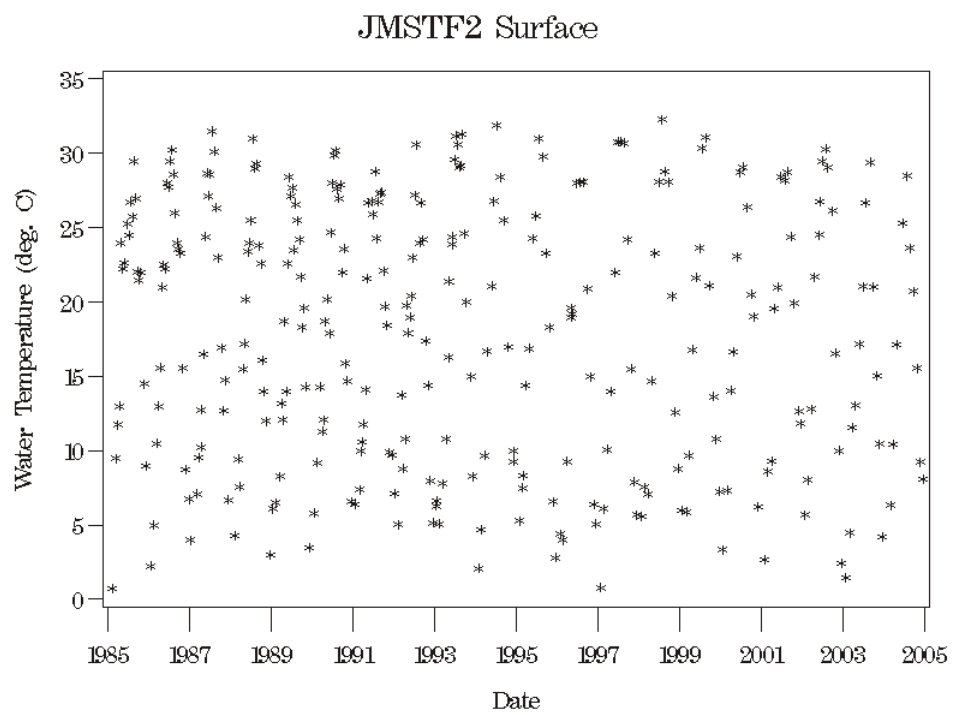


Figure 45. Scatterplot of surface water temperature at segment JMSTF2 during the period 1985 to 2004.

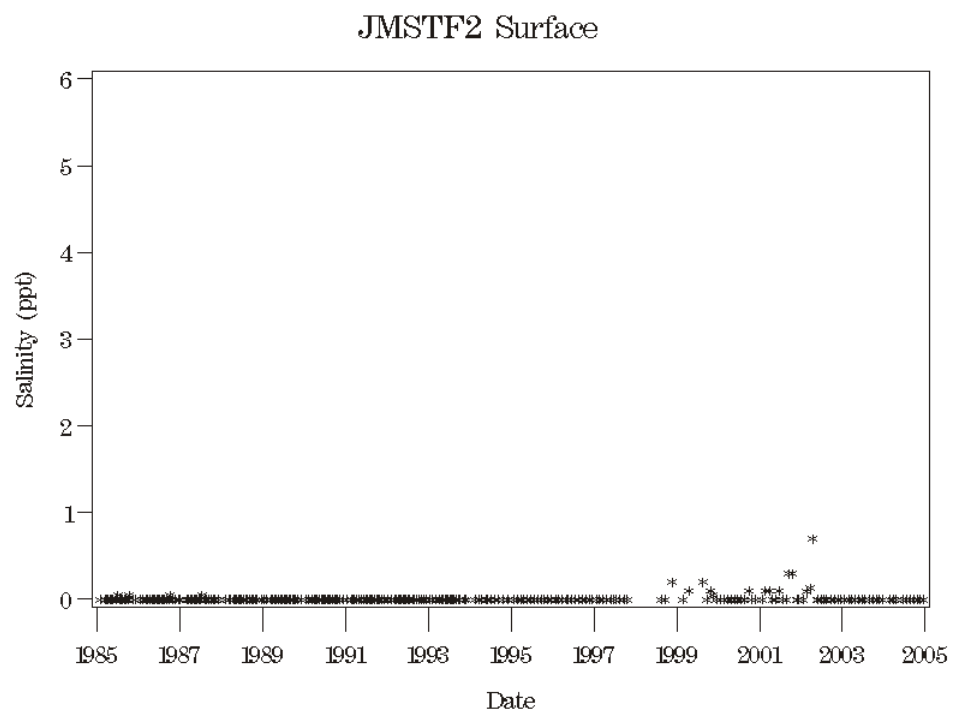
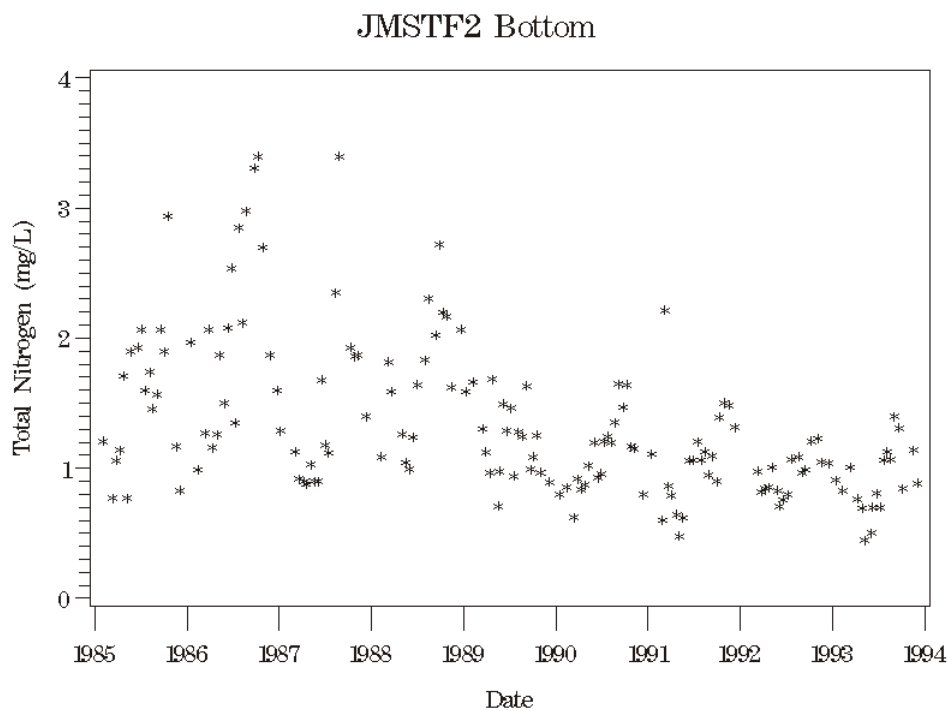


Figure 46. Scatterplot of surface salinity at segment JMSTF2 during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

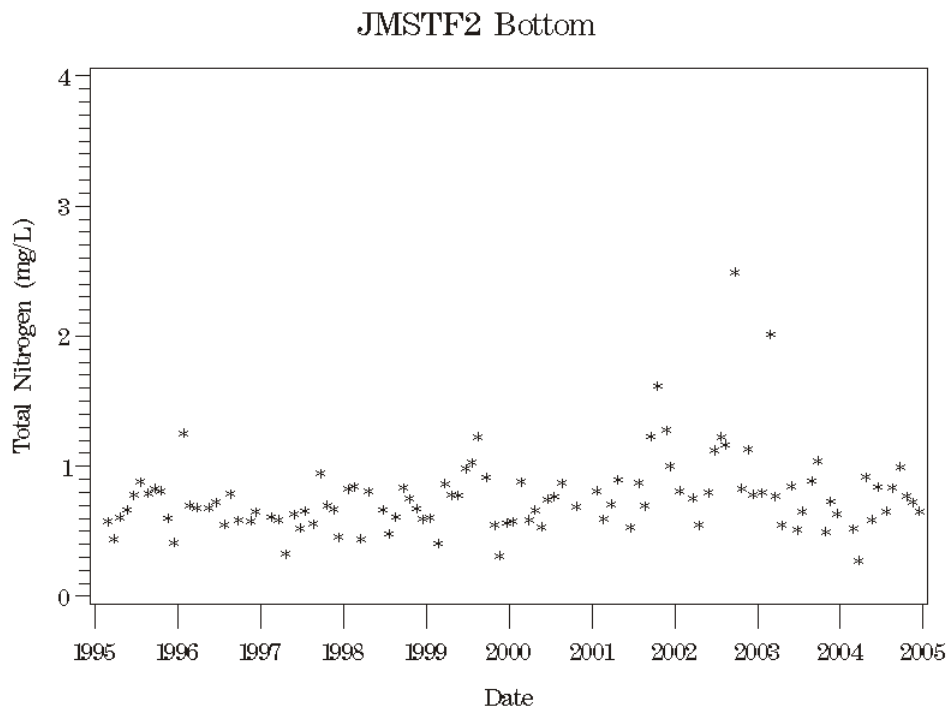
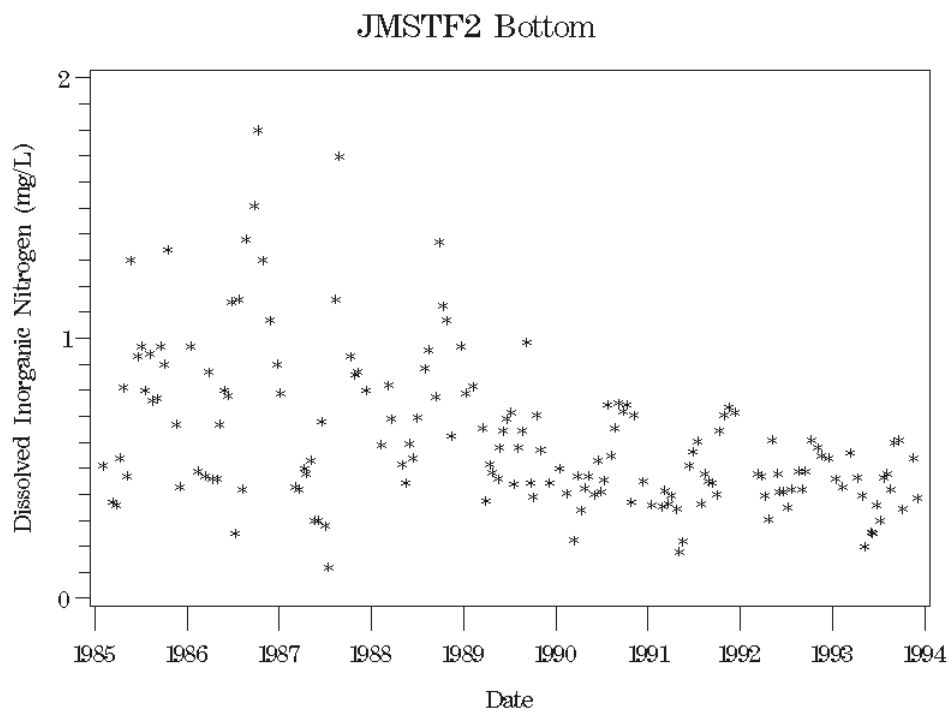


Figure 47. Scatterplots of bottom total nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

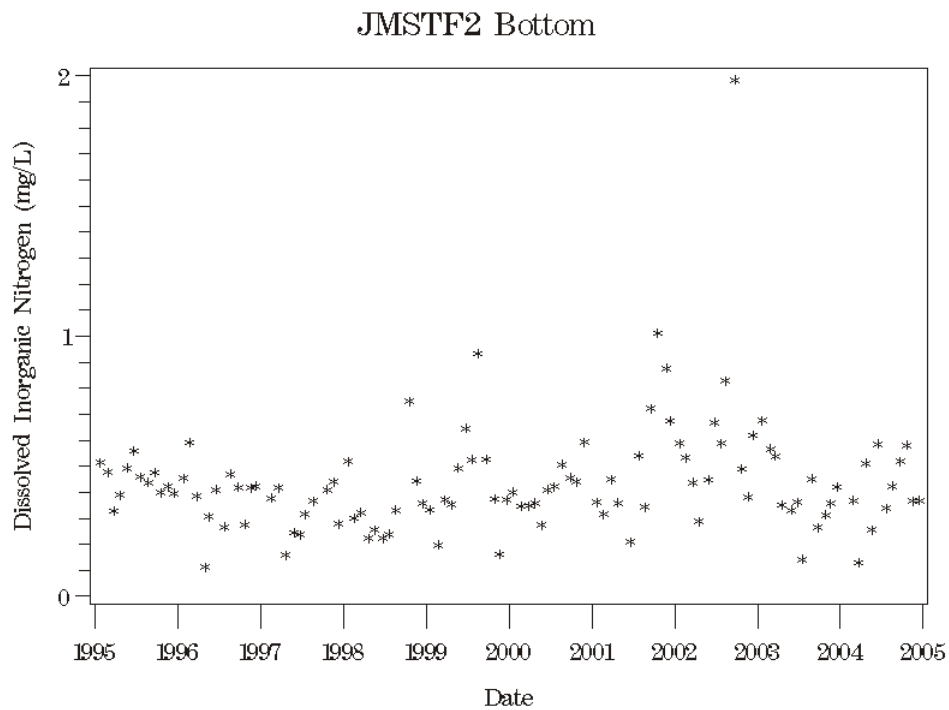
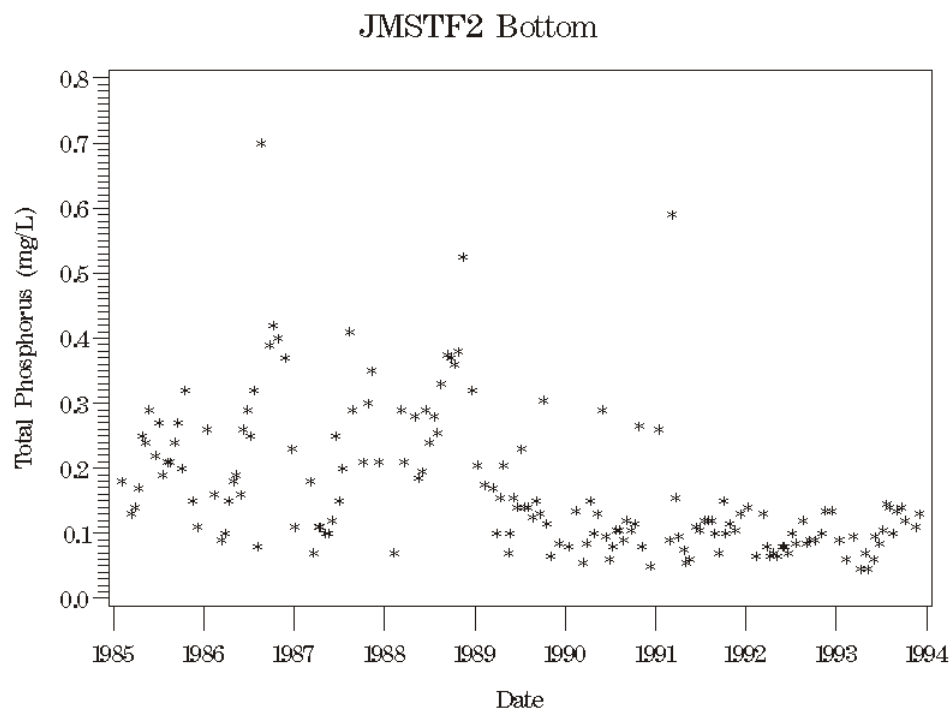


Figure 48. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

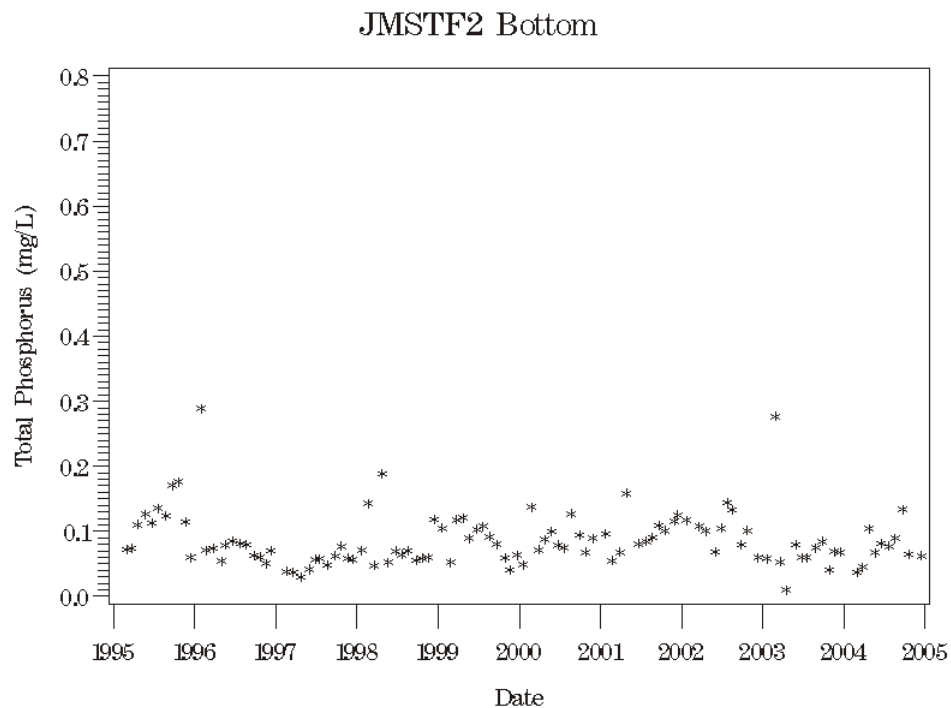
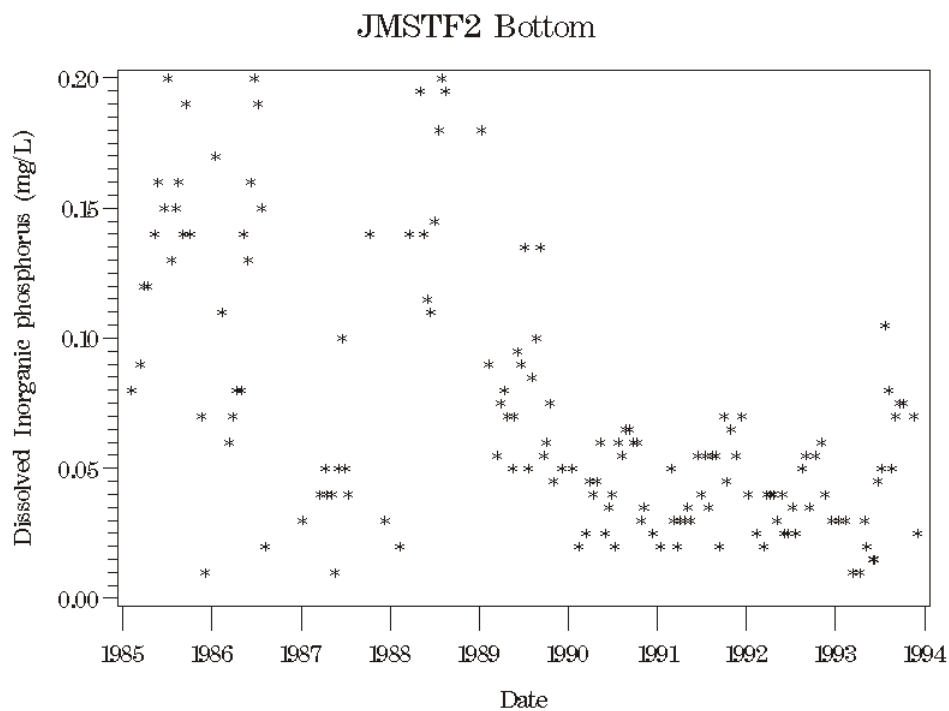


Figure 49. Scatterplots of bottom total phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

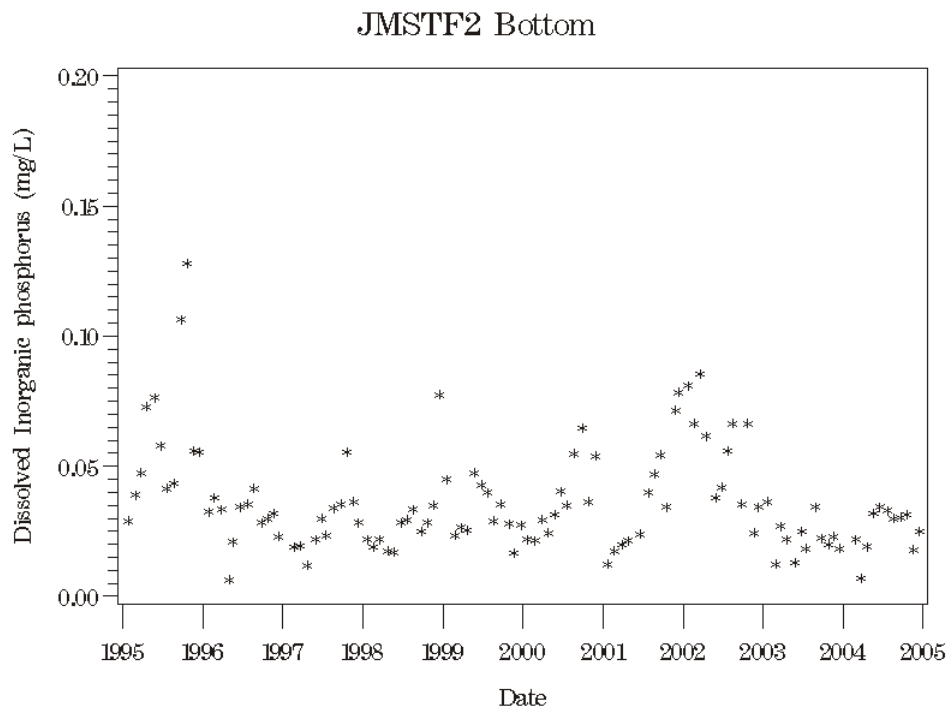


Figure 50. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSTF2 during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

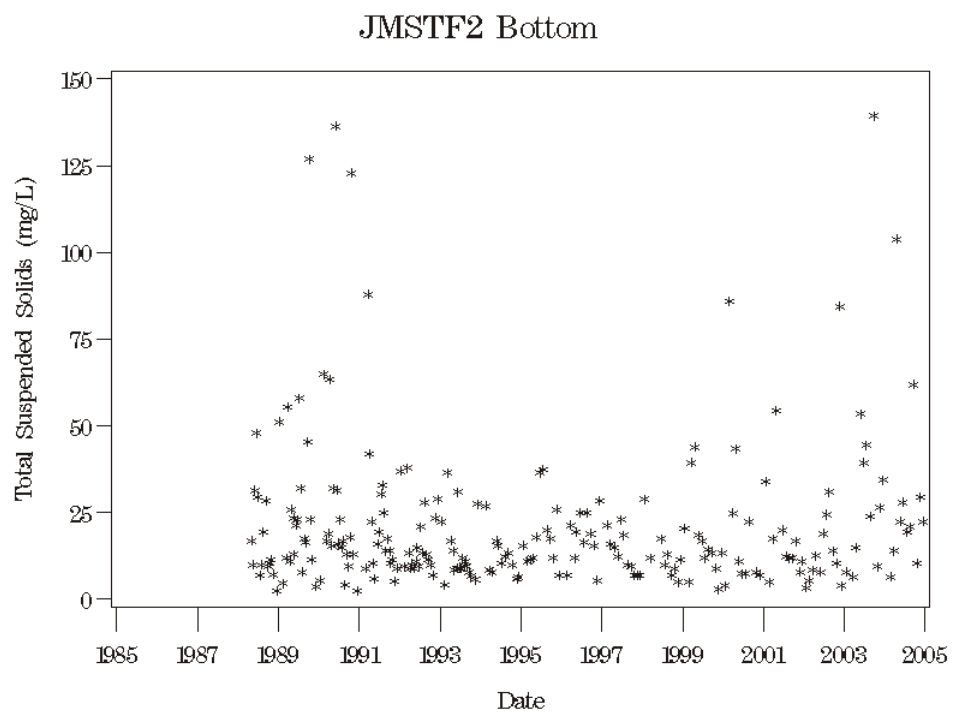


Figure 51. Scatterplot of bottom total suspended solids at segment JMSTF2 during the period 1985 to 2004.

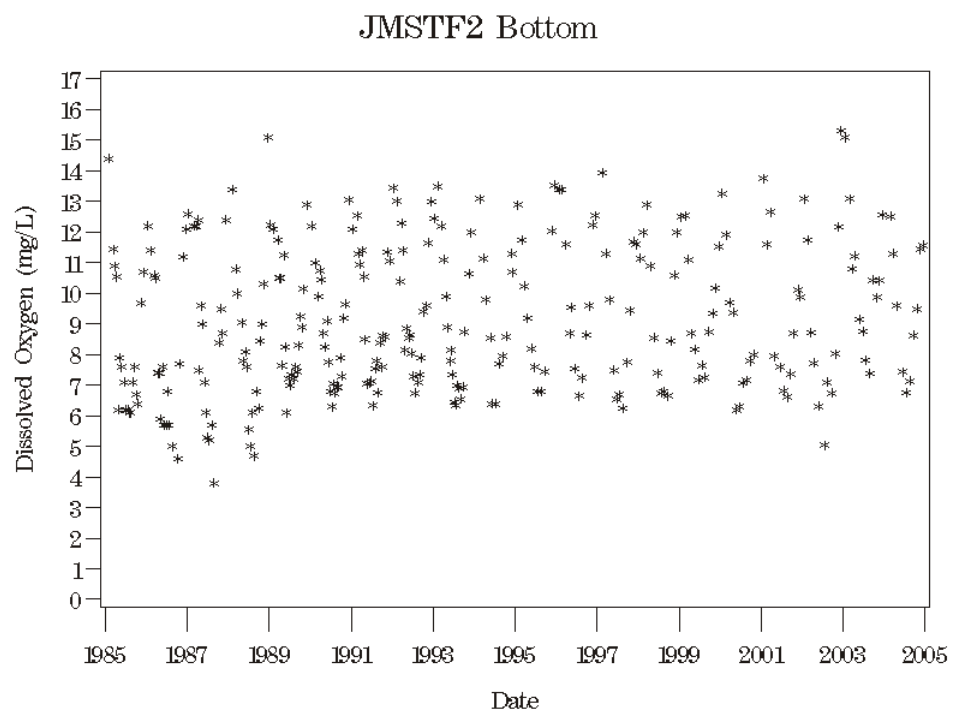


Figure 52. Scatterplot of bottom dissolved oxygen at segment JMSTF2 during the period 1985 to 2004.

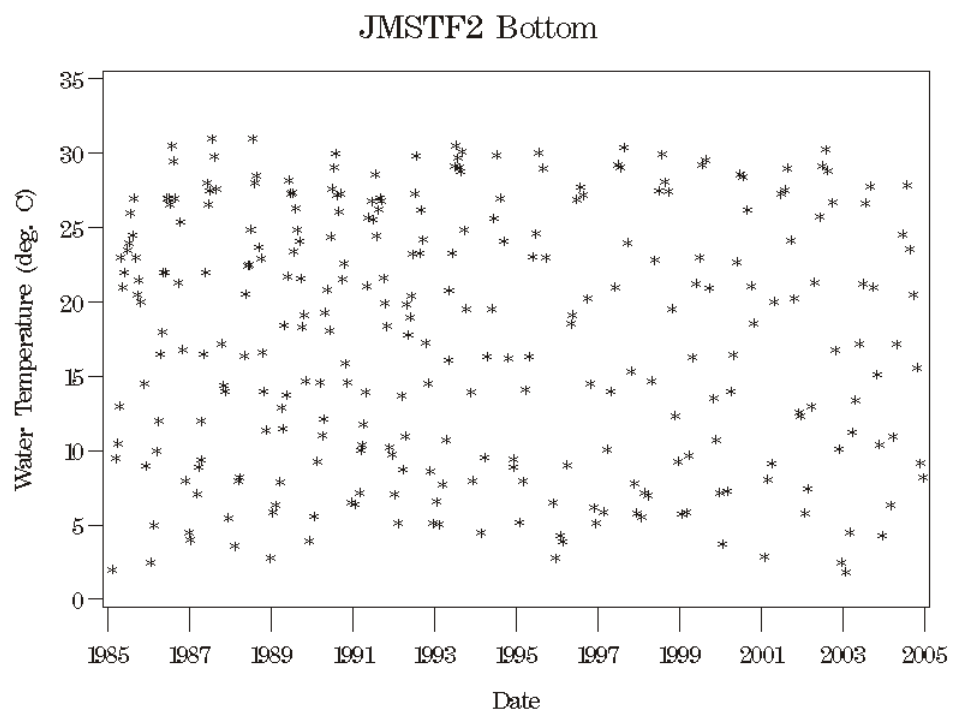


Figure 53. Scatterplot of bottom water temperature at segment JMSTF2 during the period 1985 to 2004.

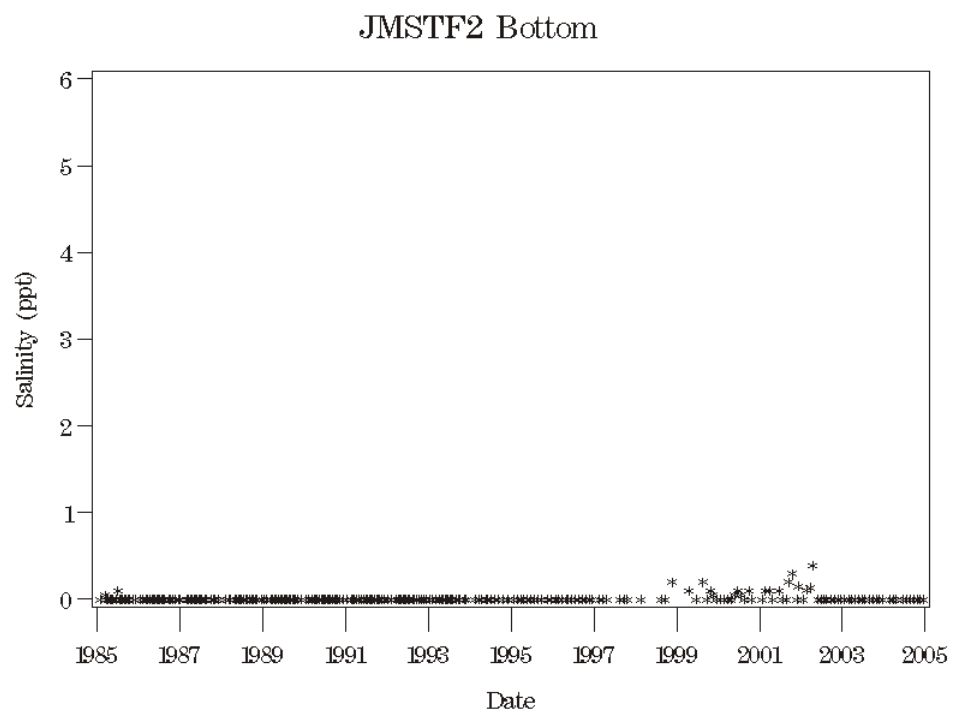
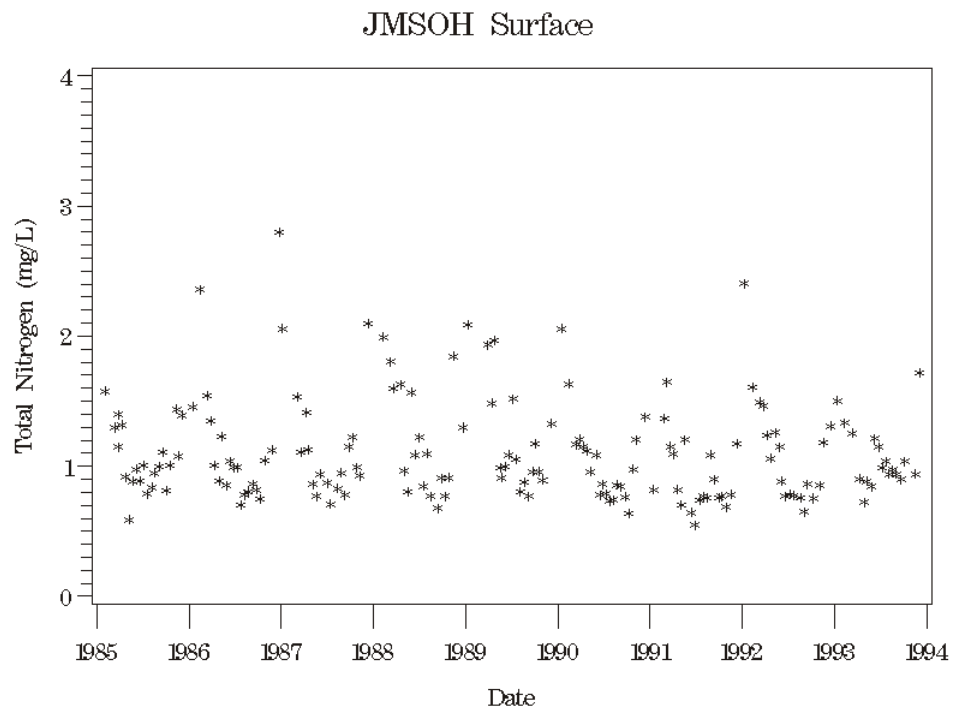


Figure 54. Scatterplot of bottom salinity at segment JMSTF2 during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

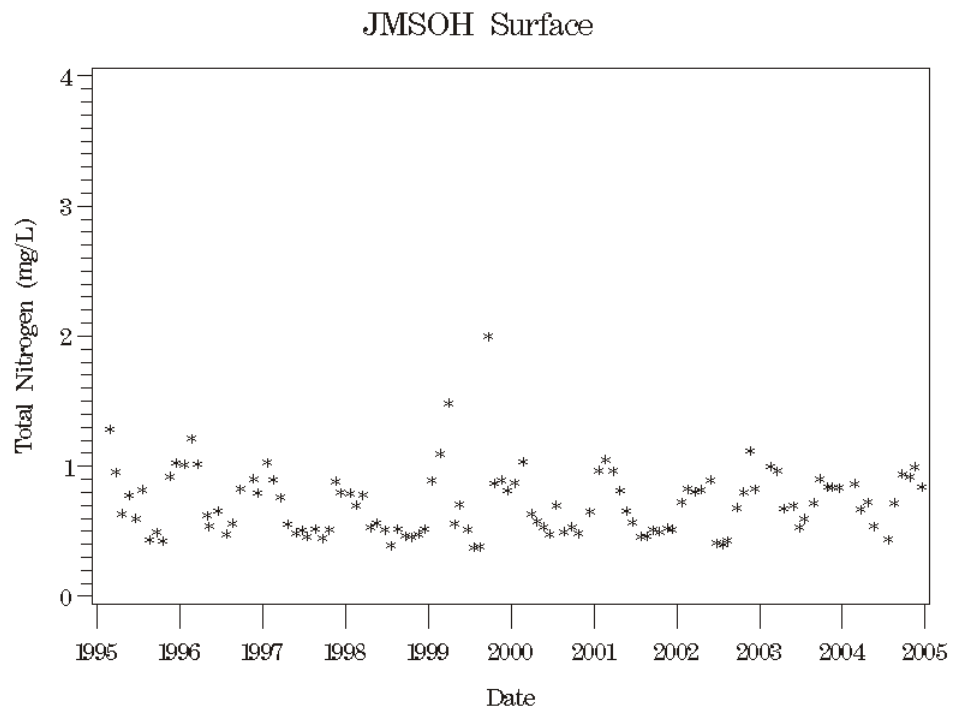
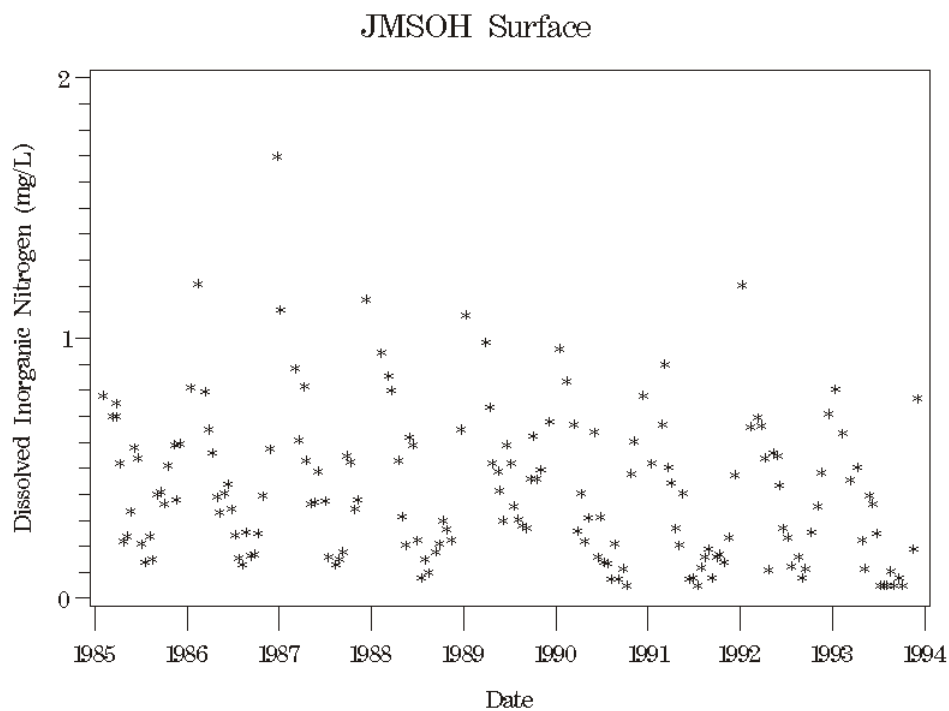


Figure 55. Scatterplots of surface total nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

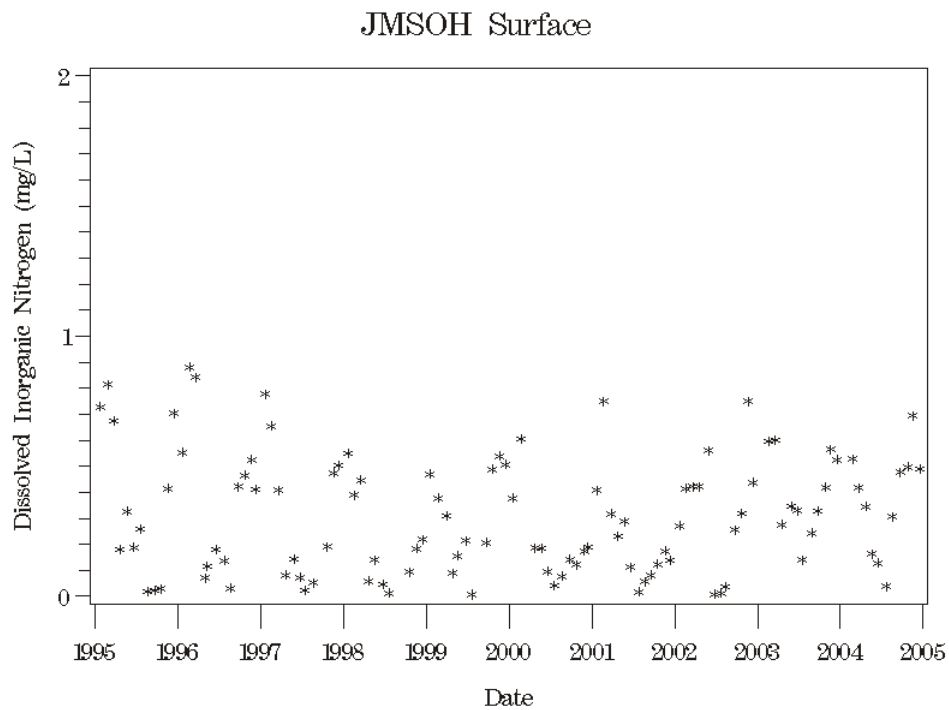
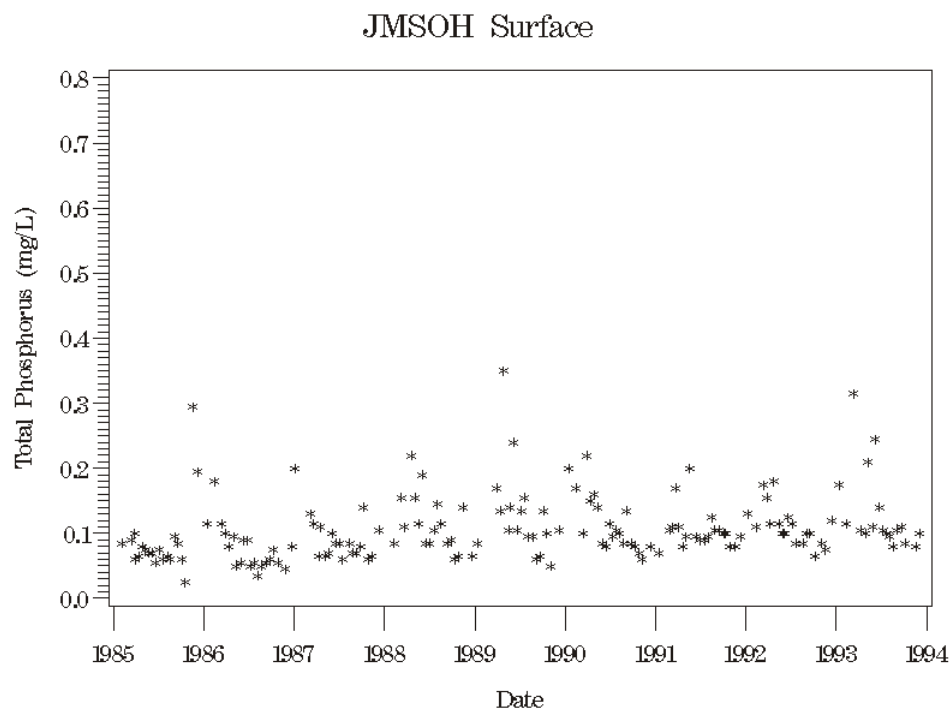


Figure 56. Scatterplots of surface dissolved inorganic nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

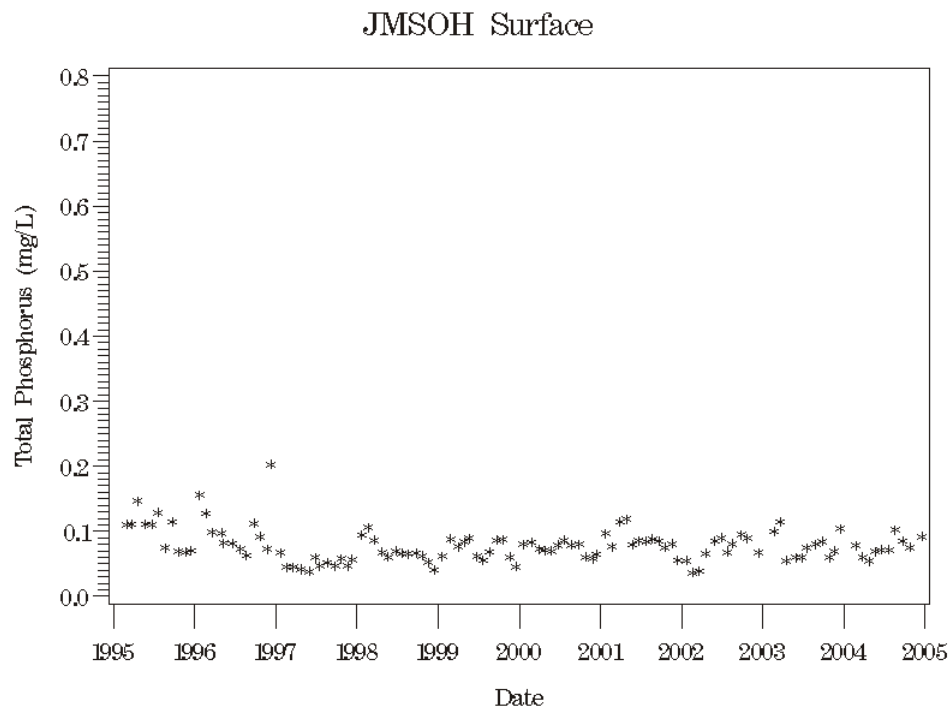
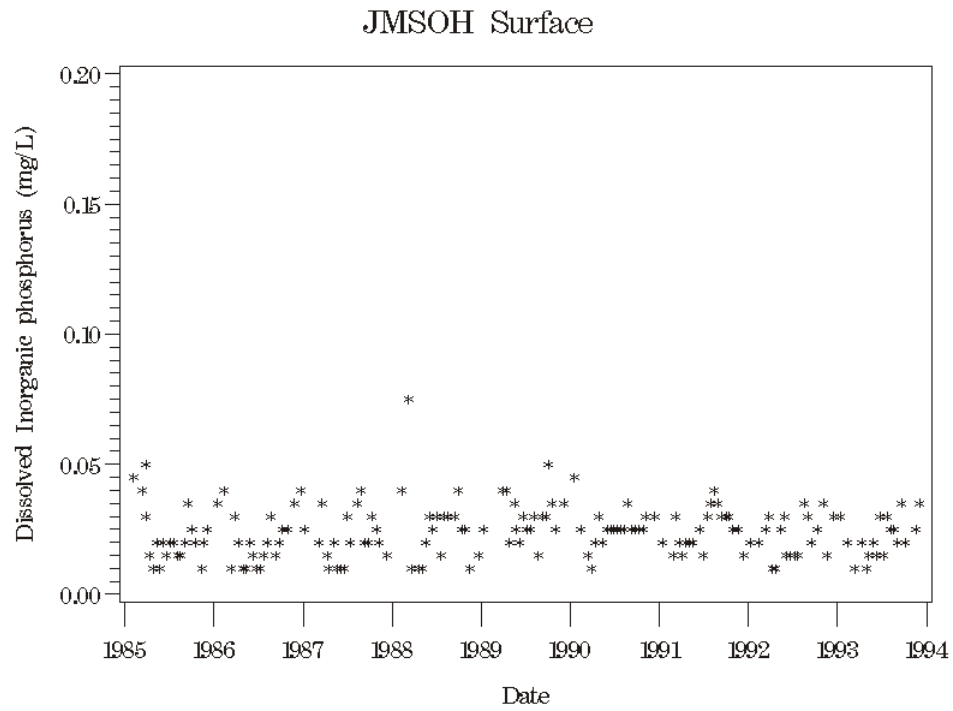


Figure 57. Scatterplots of surface total phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

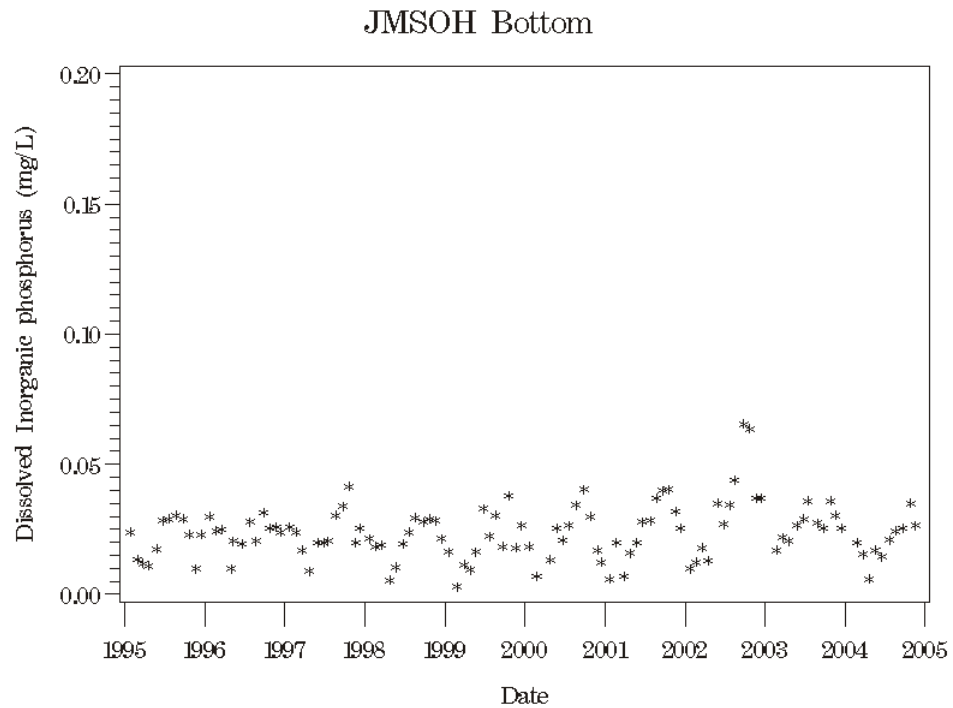


Figure 58. Scatterplots of surface dissolved inorganic phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

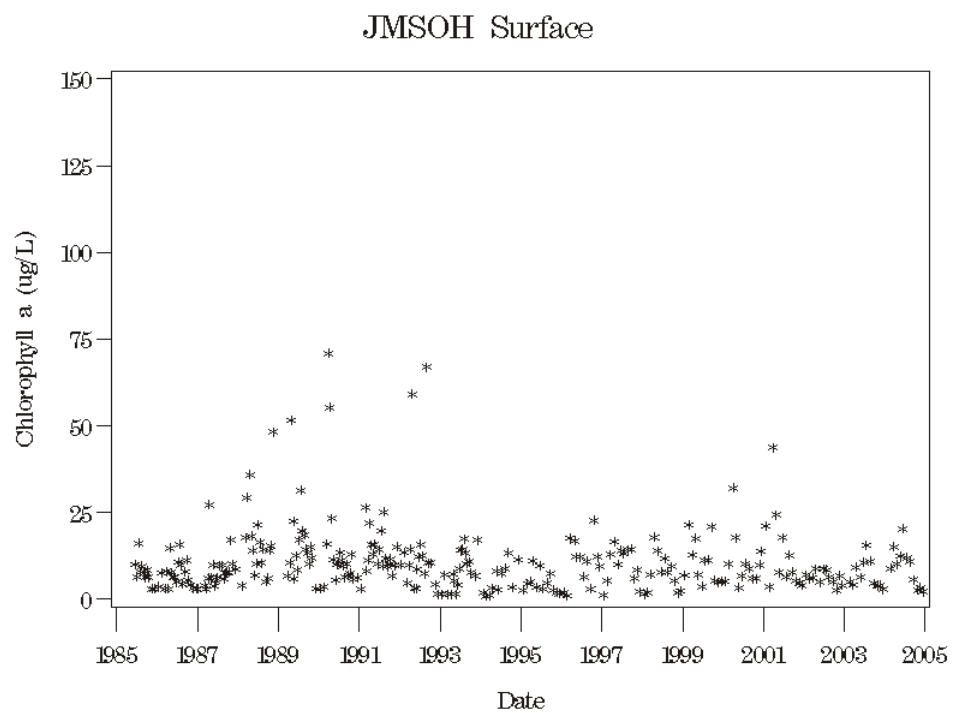


Figure 59. Scatterplot of surface chlorophyll *a* at segment JMSOH during the period 1985 to 2004.

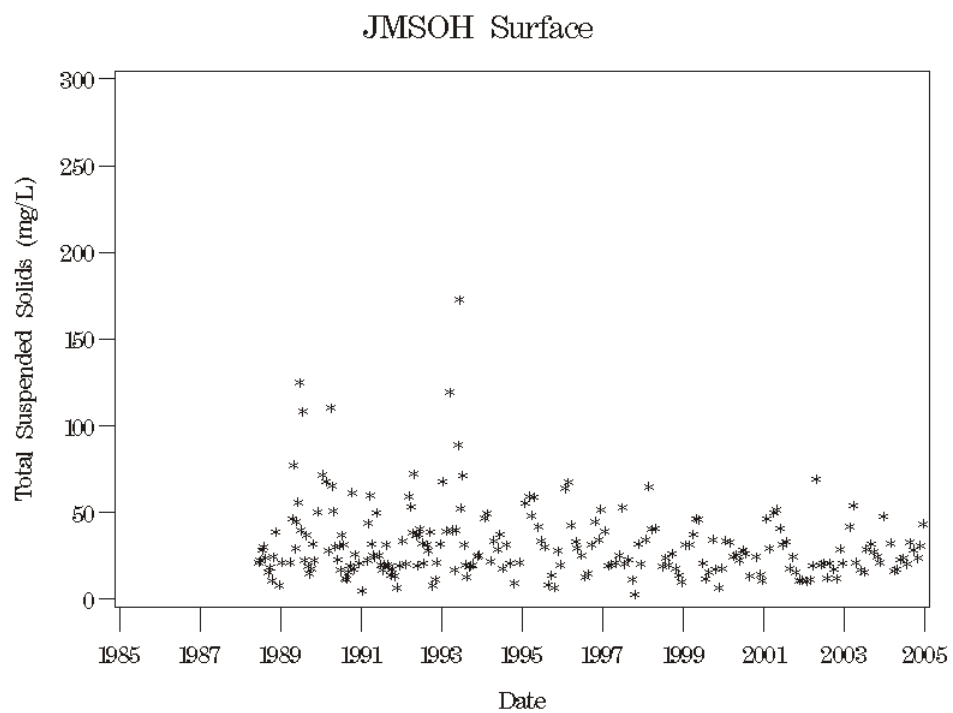


Figure 60. Scatterplot of surface total suspended solids at segment JMSOH during the period 1985 to 2004.

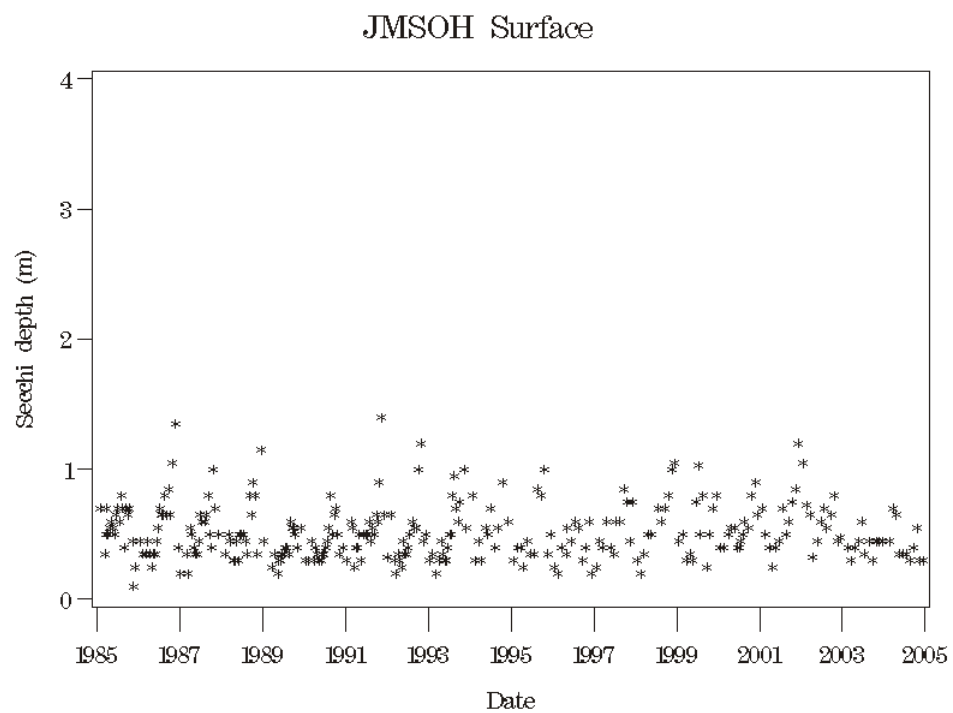


Figure 61. Scatterplot of secchi depth at segment JMSOH during the period 1985 to 2004.

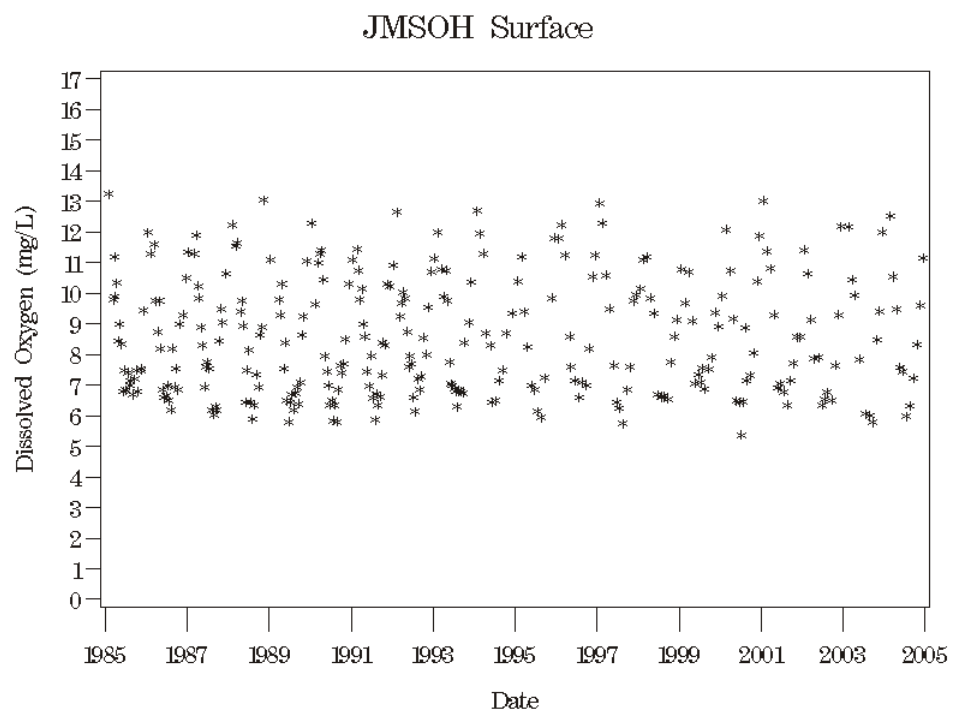


Figure 62. Scatterplot of surface dissolved oxygen at segment JMSOH during the period 1985 to 2004.

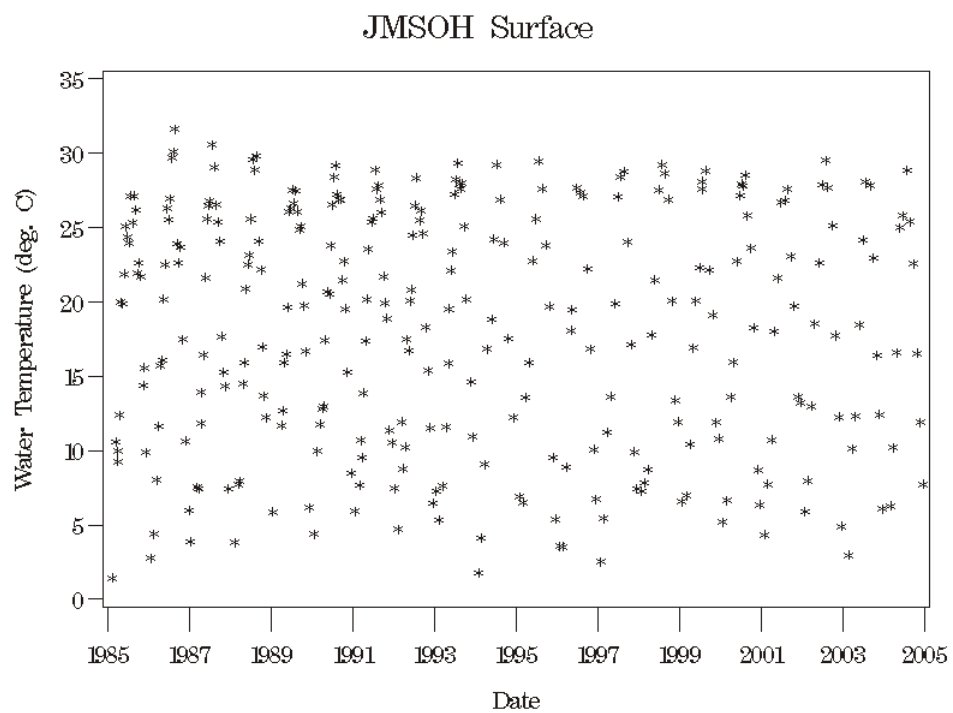


Figure 63. Scatterplot of surface water temperature at segment JMSOH during the period 1985 to 2004.

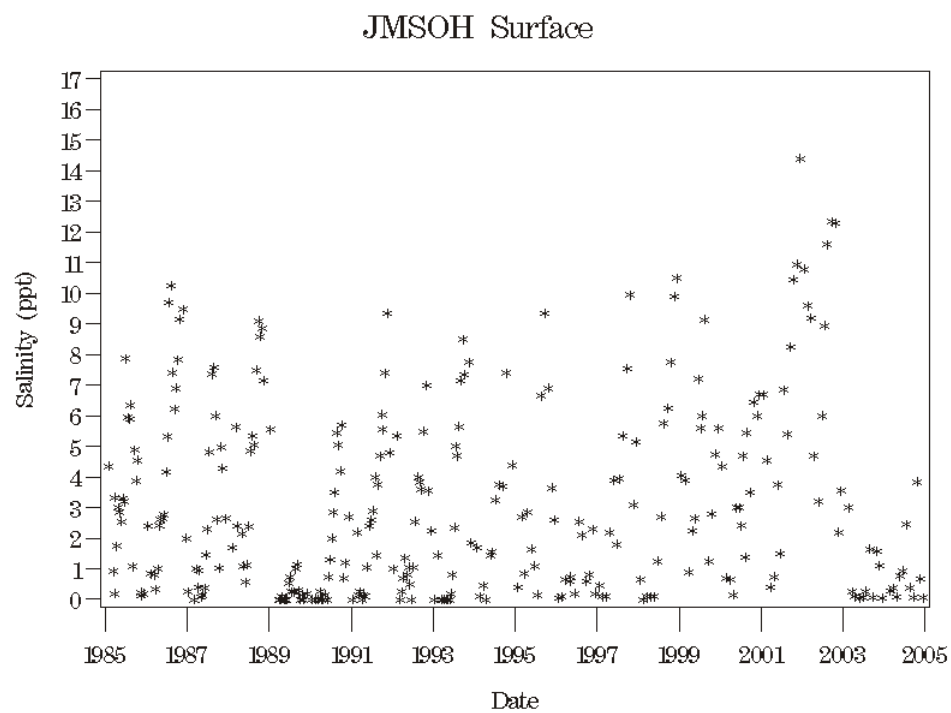
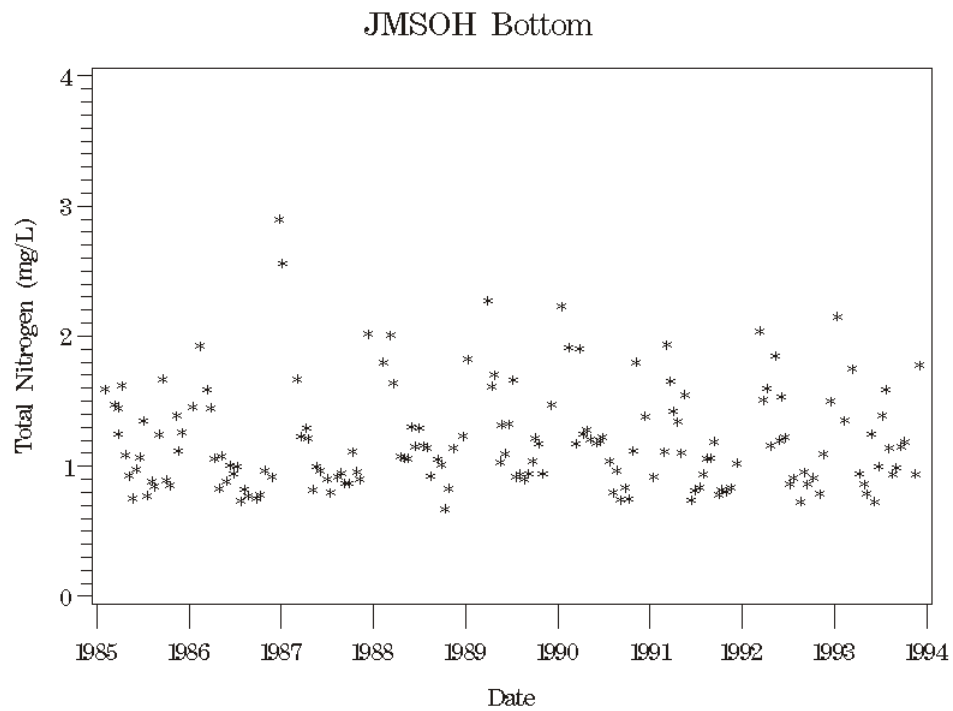


Figure 64. Scatterplot of surface salinity at segment JMSOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

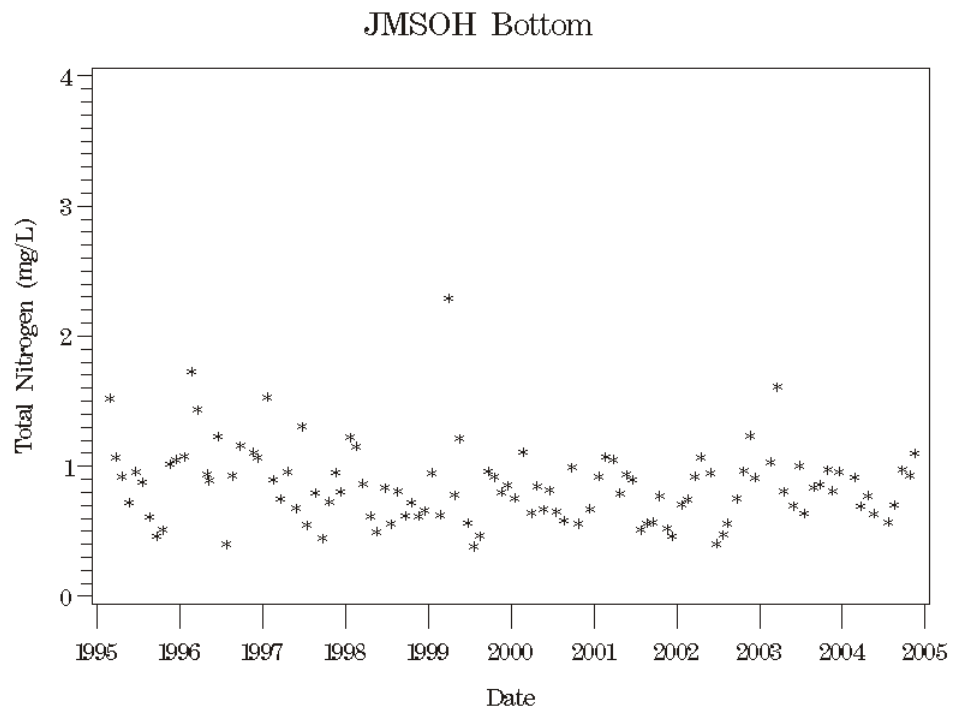
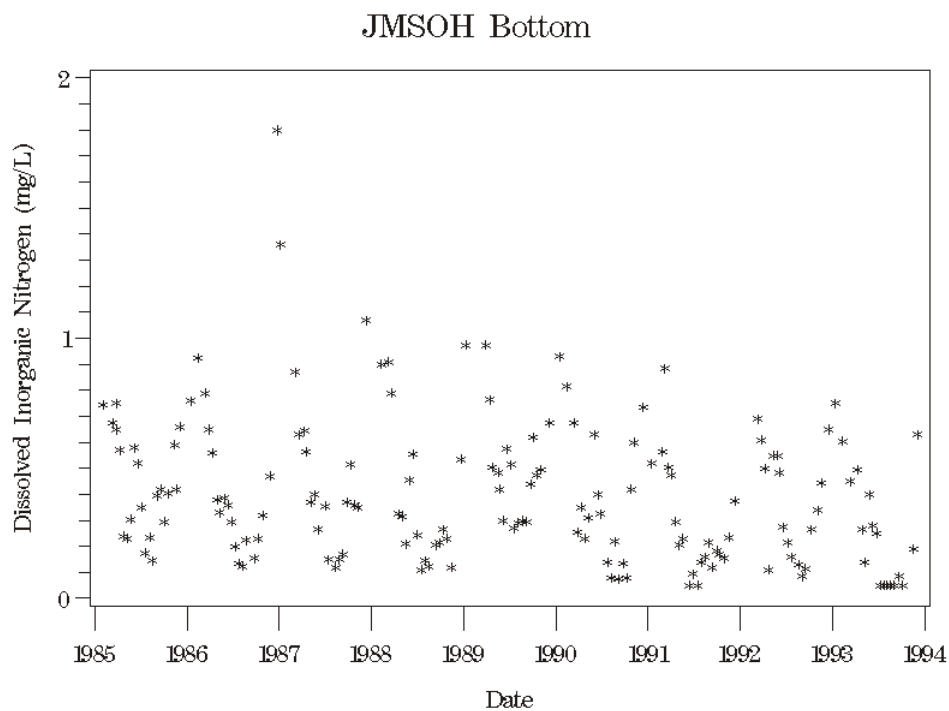


Figure 65. Scatterplots of bottom total nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

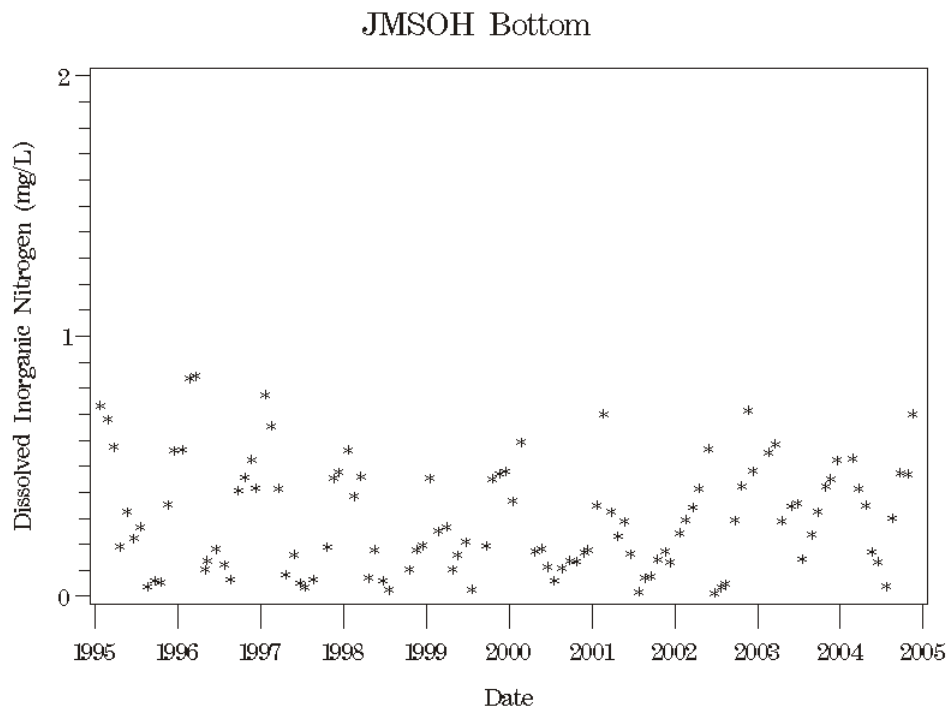
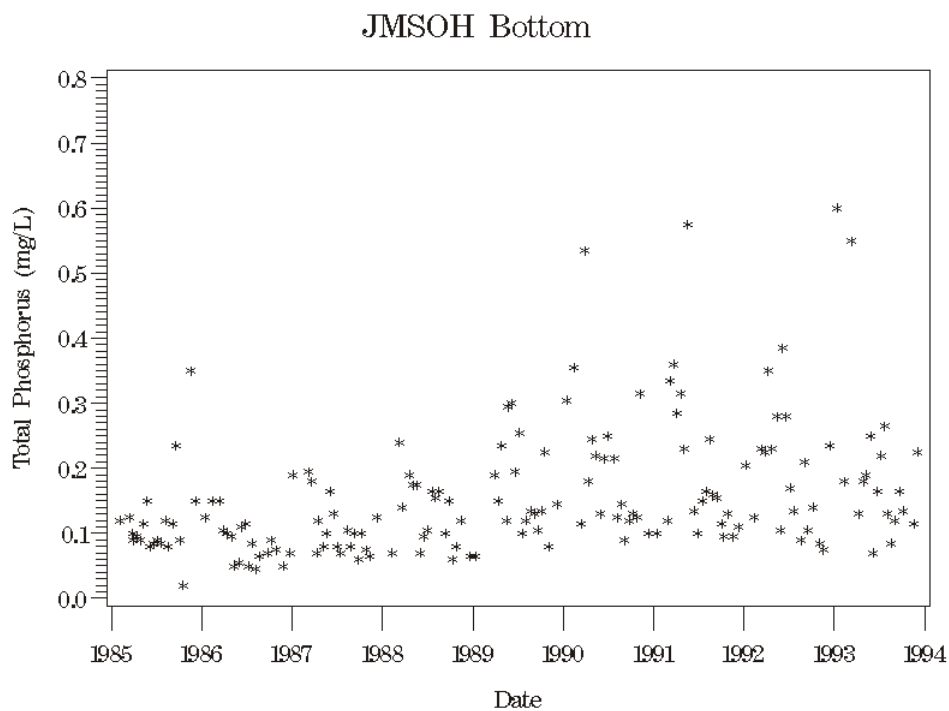


Figure 66. Scatterplots of bottom dissolved inorganic nitrogen at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

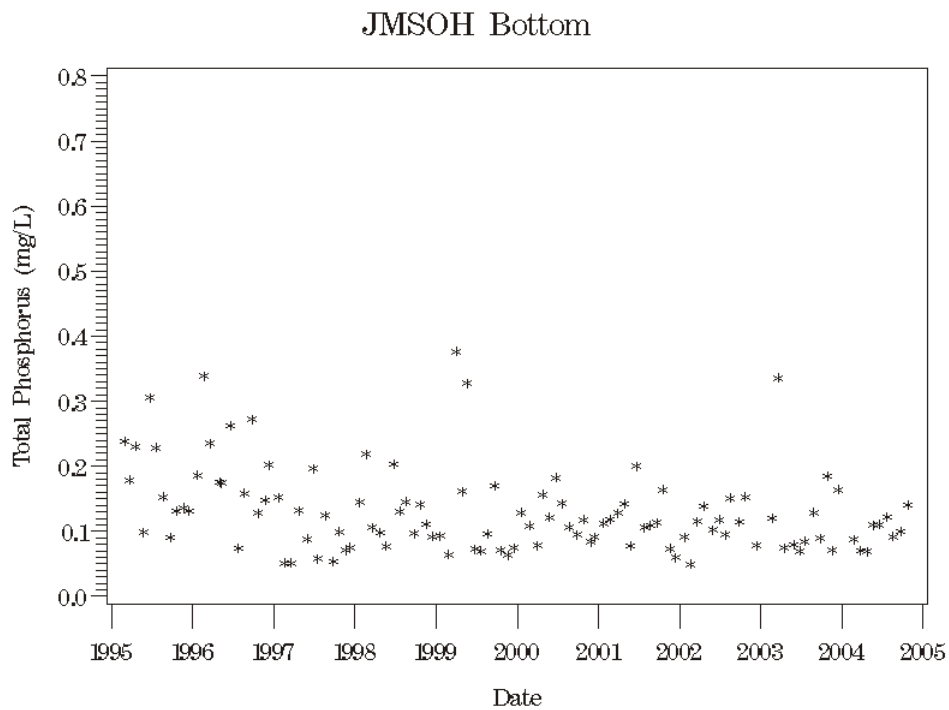
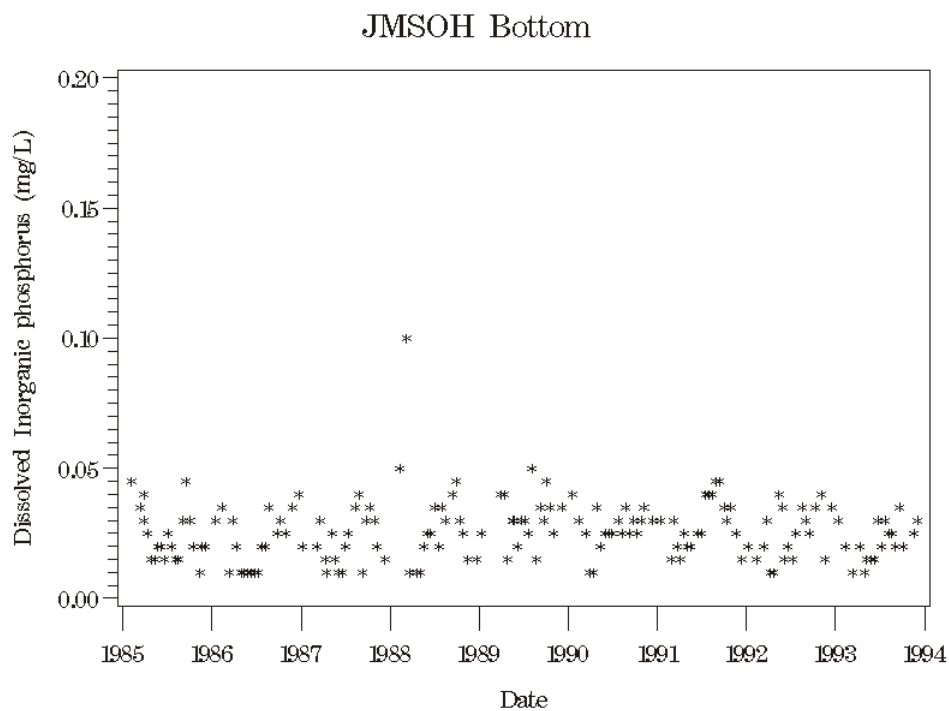


Figure 67. Scatterplots of bottom total phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

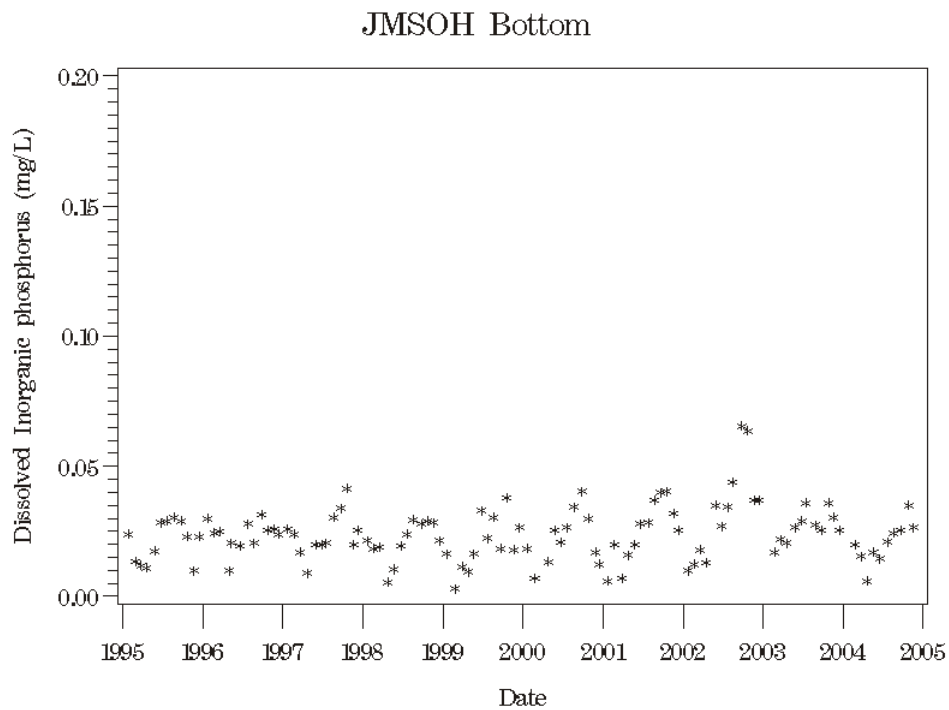


Figure 68. Scatterplots of bottom dissolved inorganic phosphorus at segment JMSOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

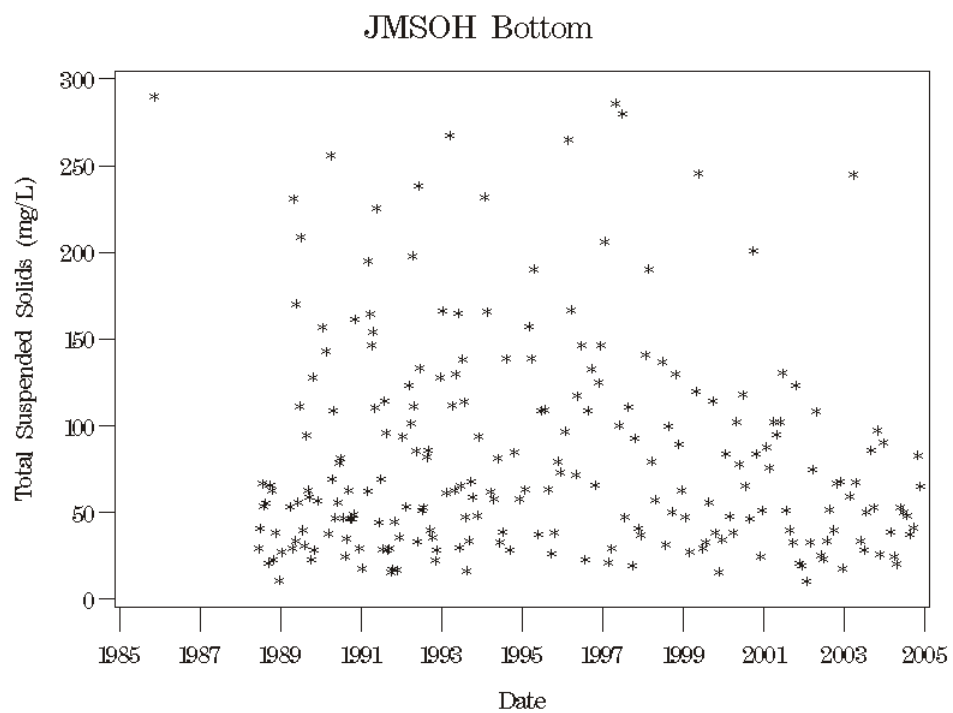


Figure 69. Scatterplot of bottom total suspended solids at segment JMSOH during the period 1985 to 2004.

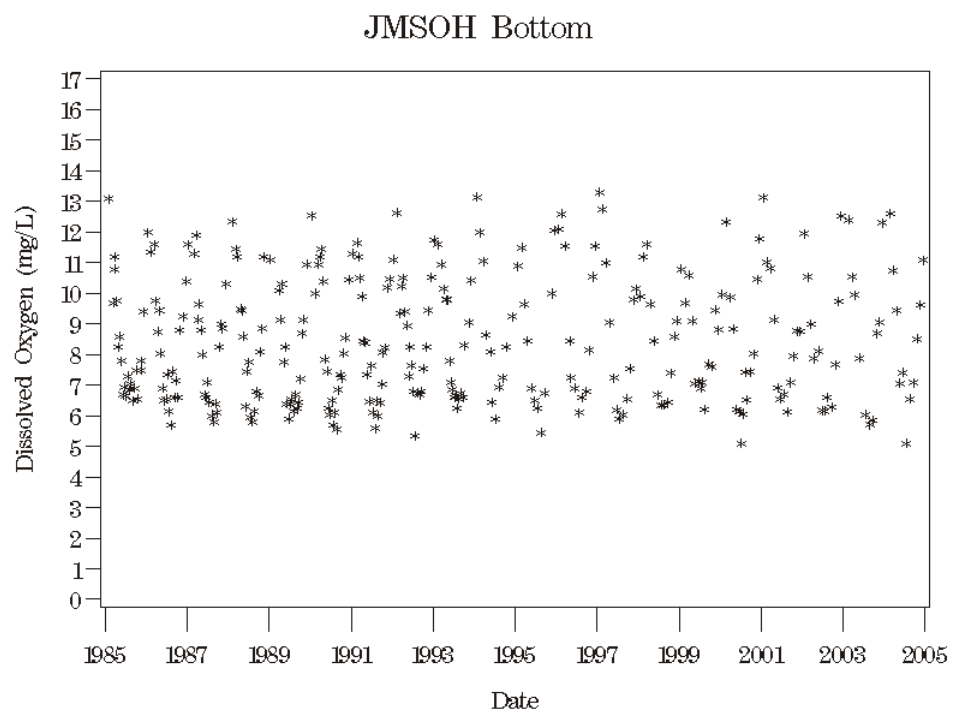


Figure 70. Scatterplot of bottom dissolved oxygen at segment JMSOH during the period 1985 to 2004.

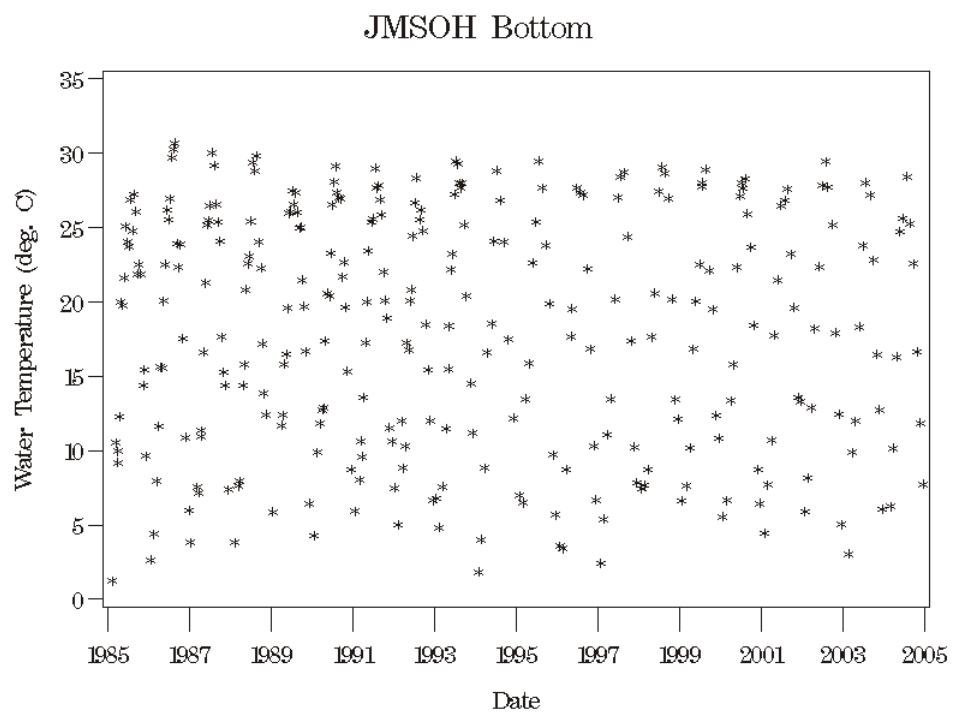


Figure 71. Scatterplot of bottom water temperature at segment JMSOH during the period 1985 to 2004.

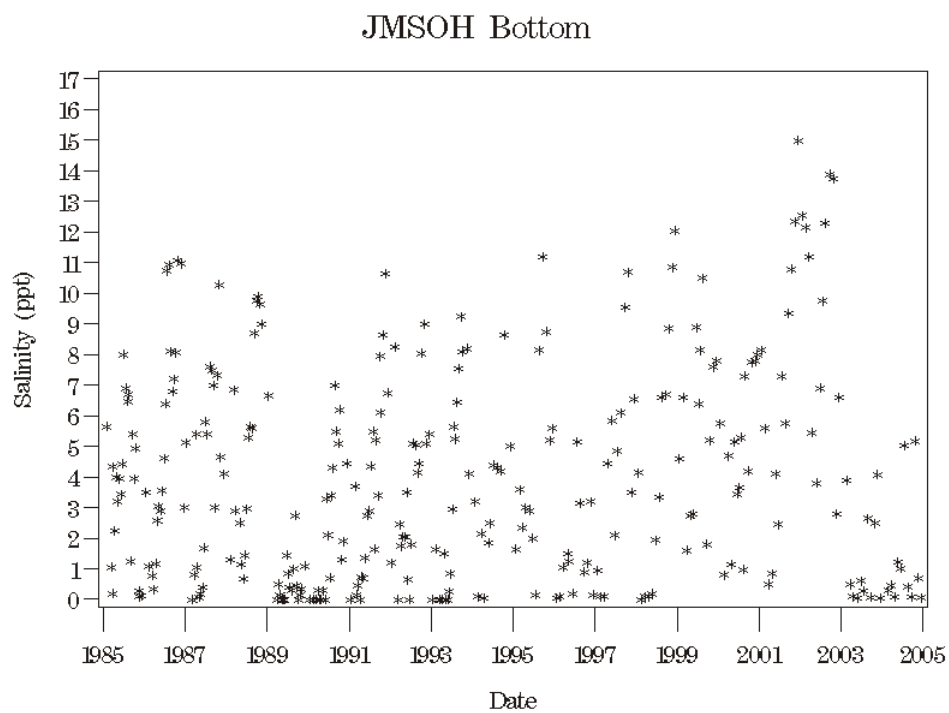
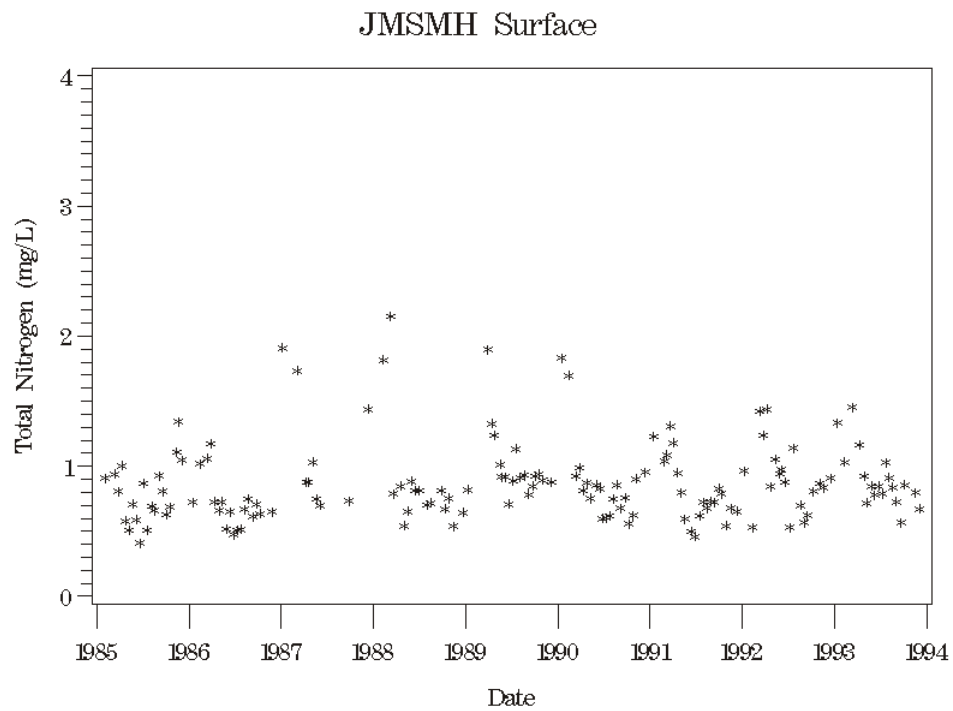


Figure 72. Scatterplot of bottom salinity at segment JMSOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

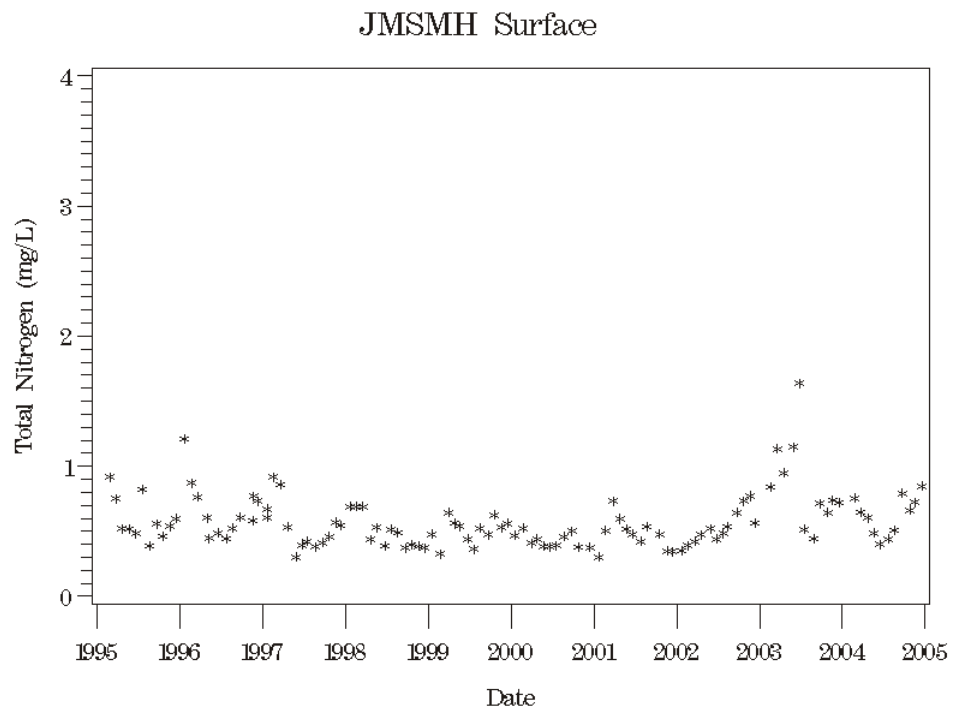
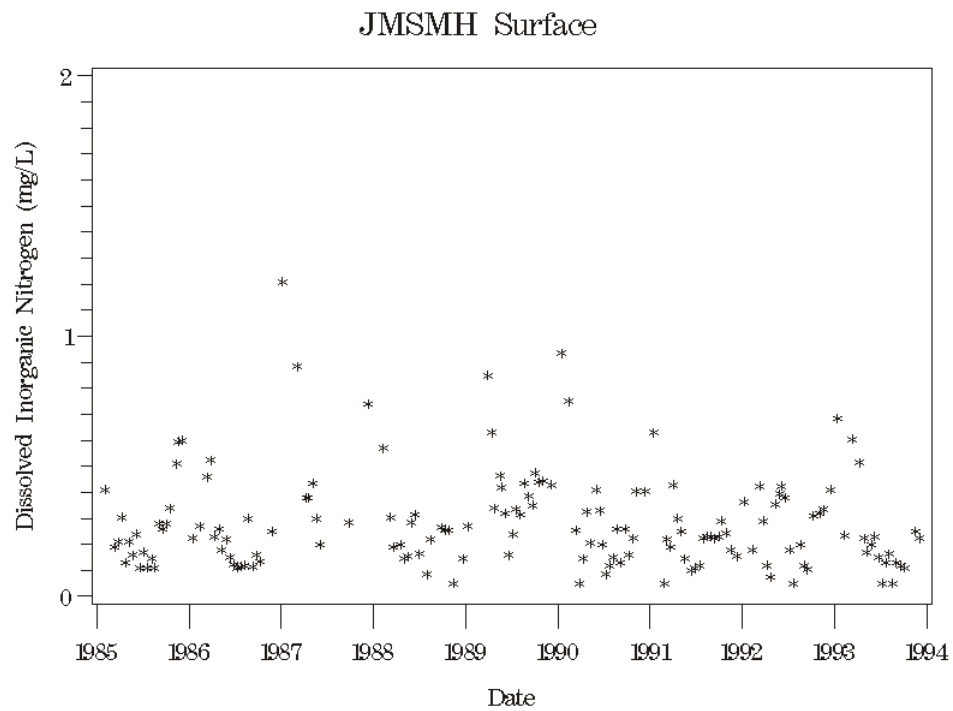


Figure 73. Scatterplots of surface total nitrogen at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

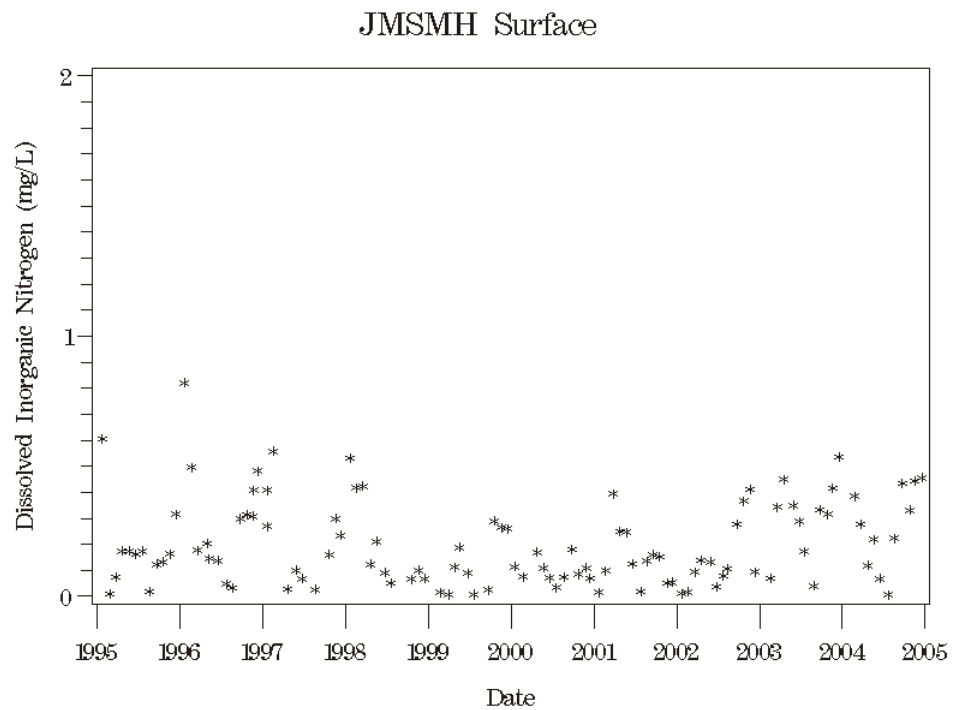
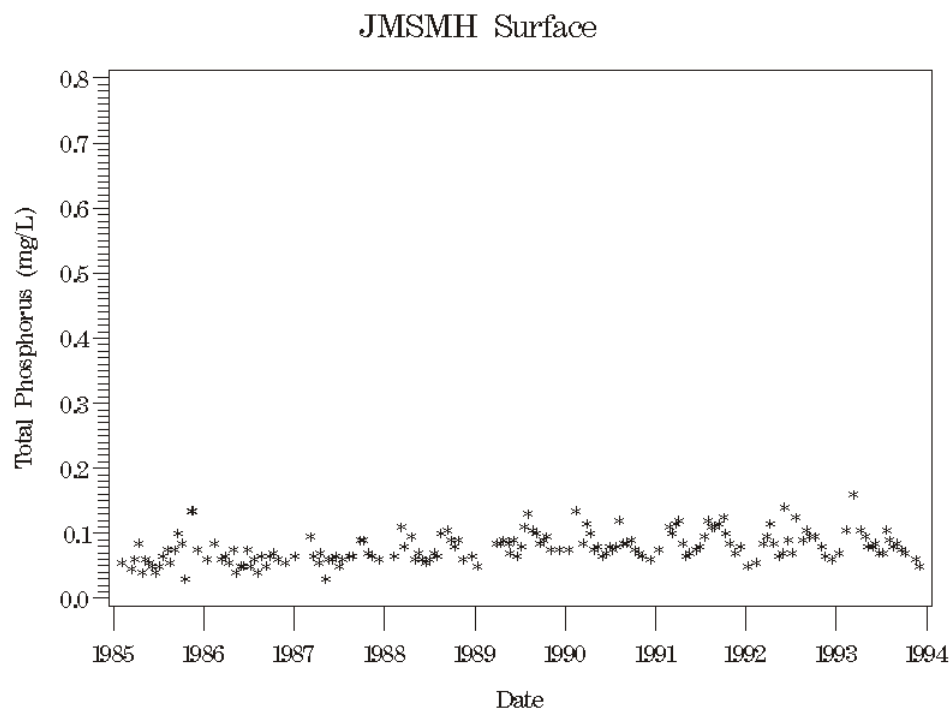


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a) Pre-method change period



b) Post-method change period

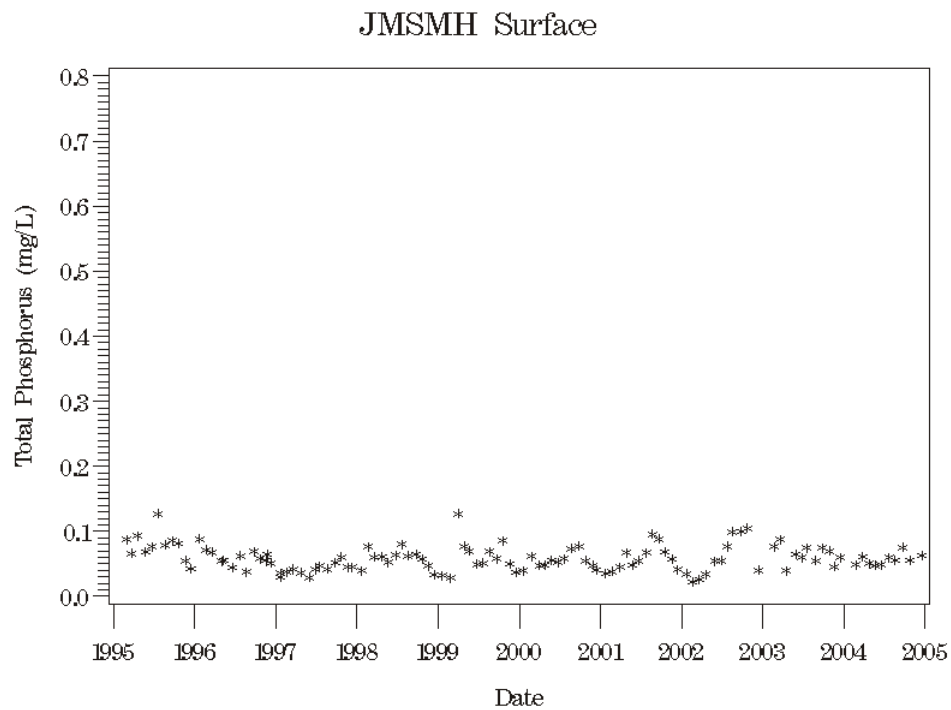
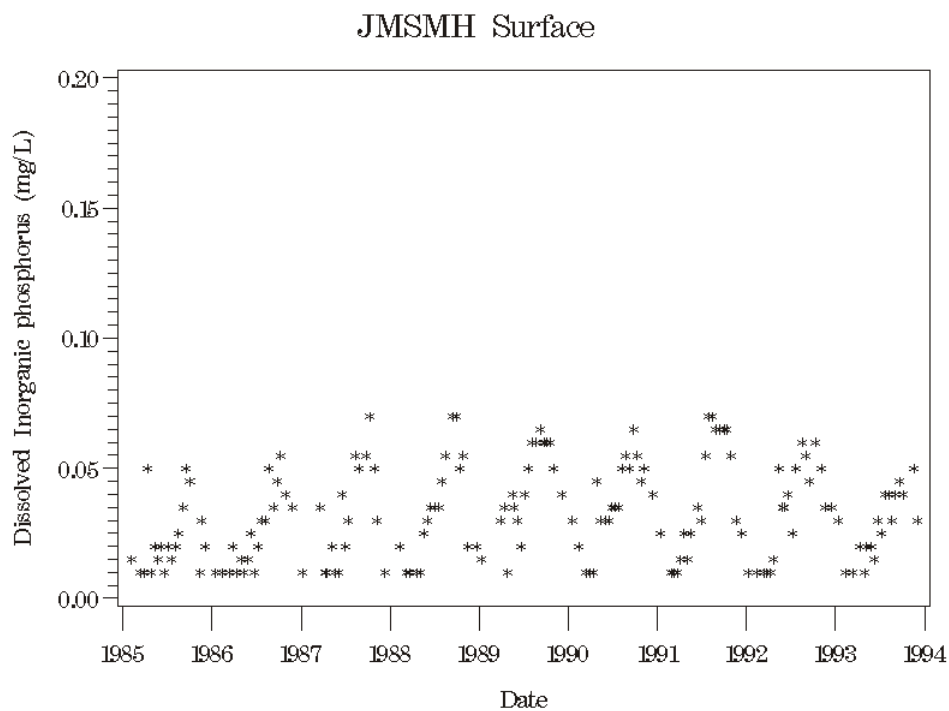


Figure 75. Scatterplots of surface total phosphorus at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

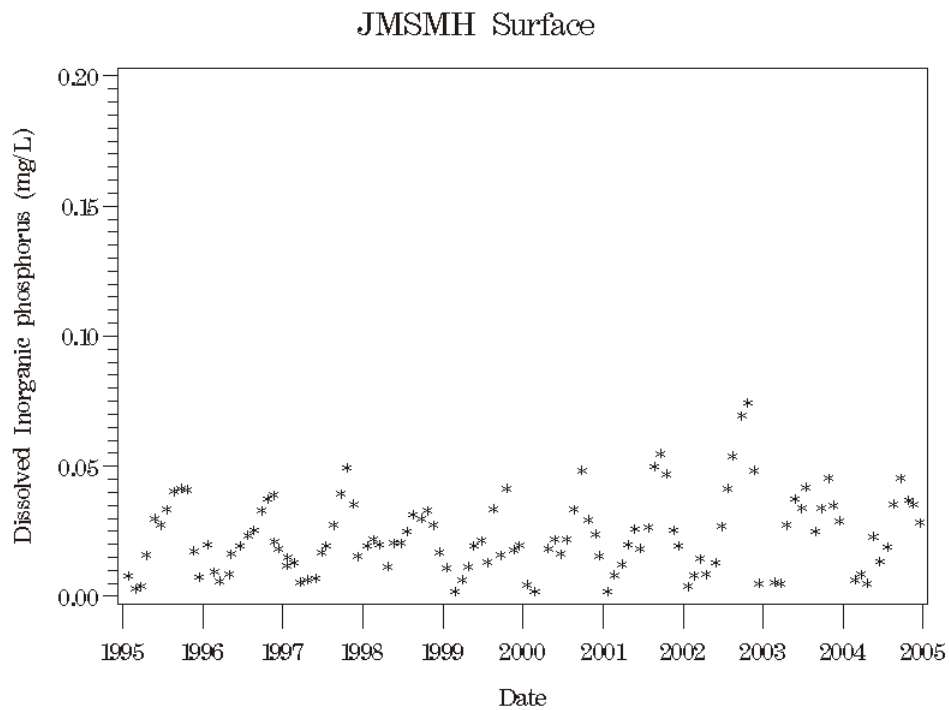


Figure 76. Scatterplots of surface dissolved inorganic phosphorus at segment JMSMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

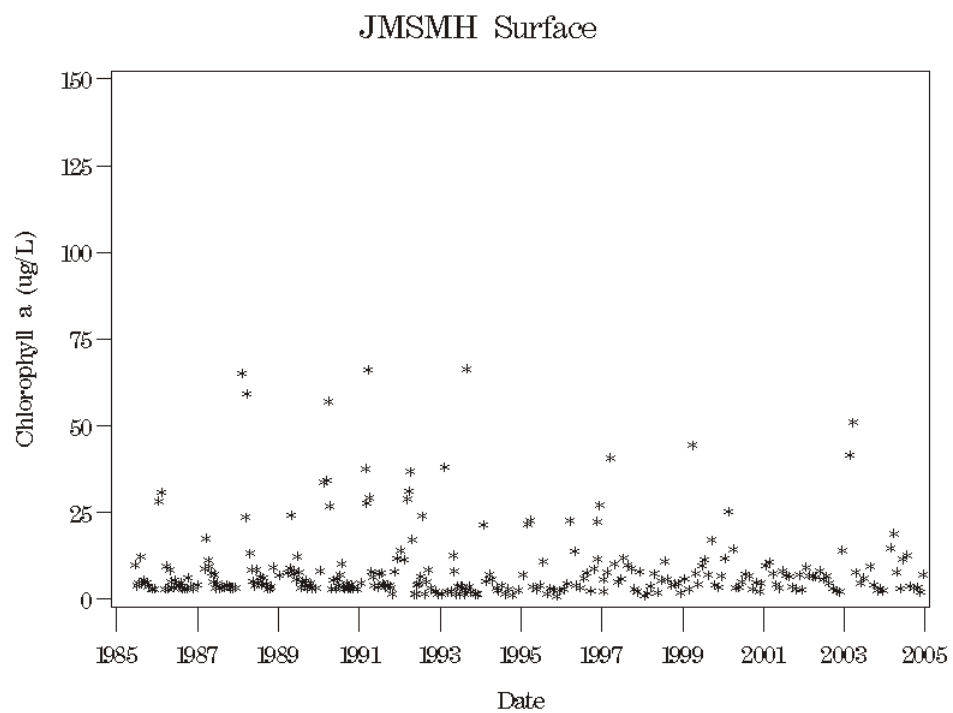


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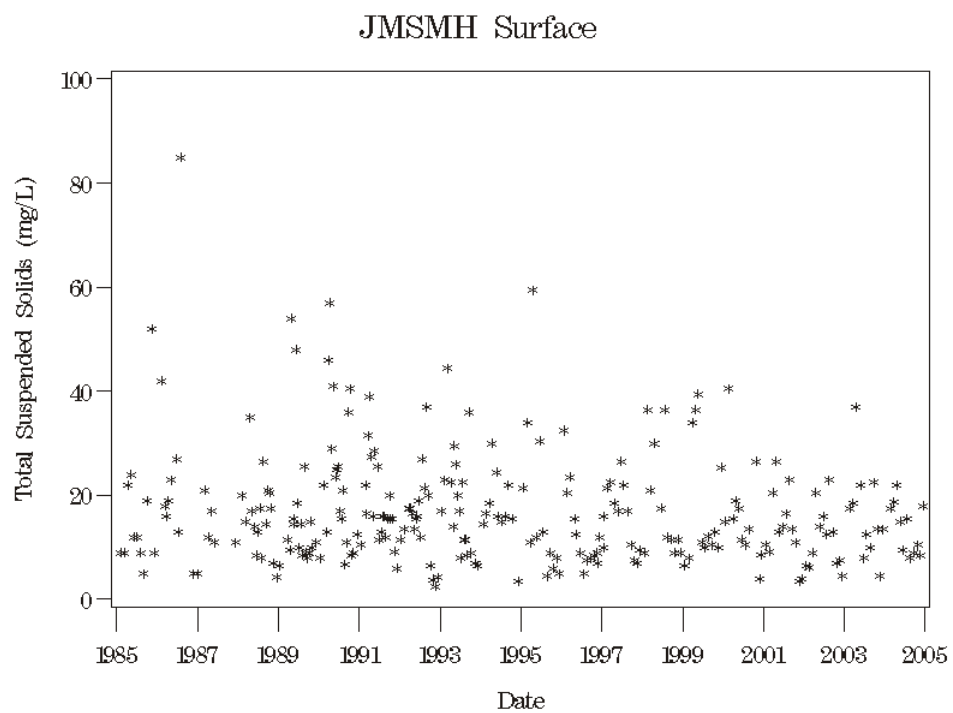


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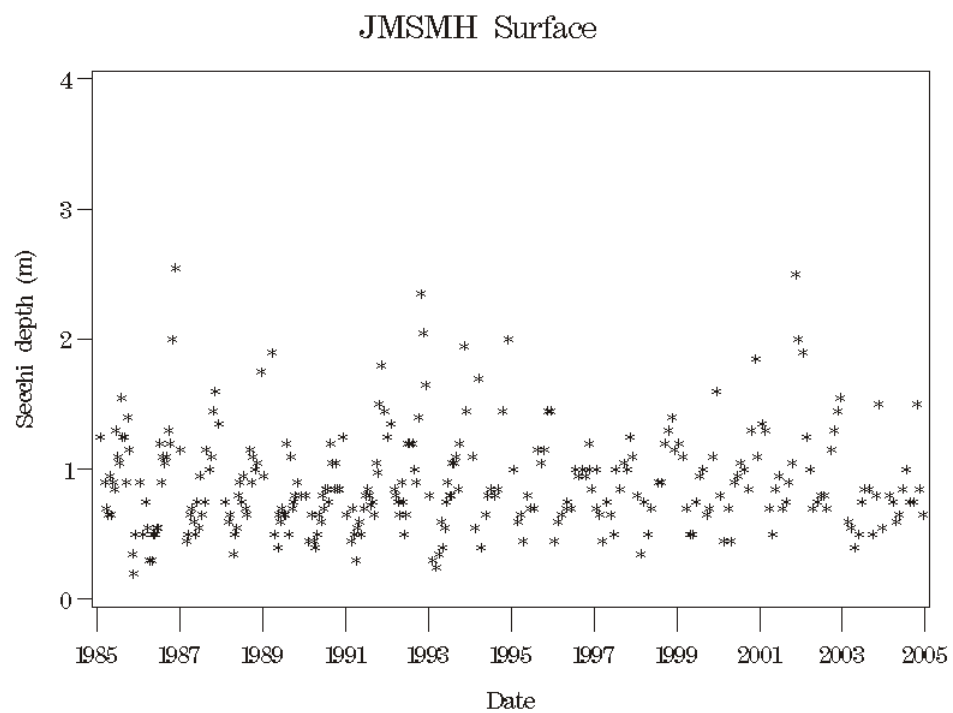


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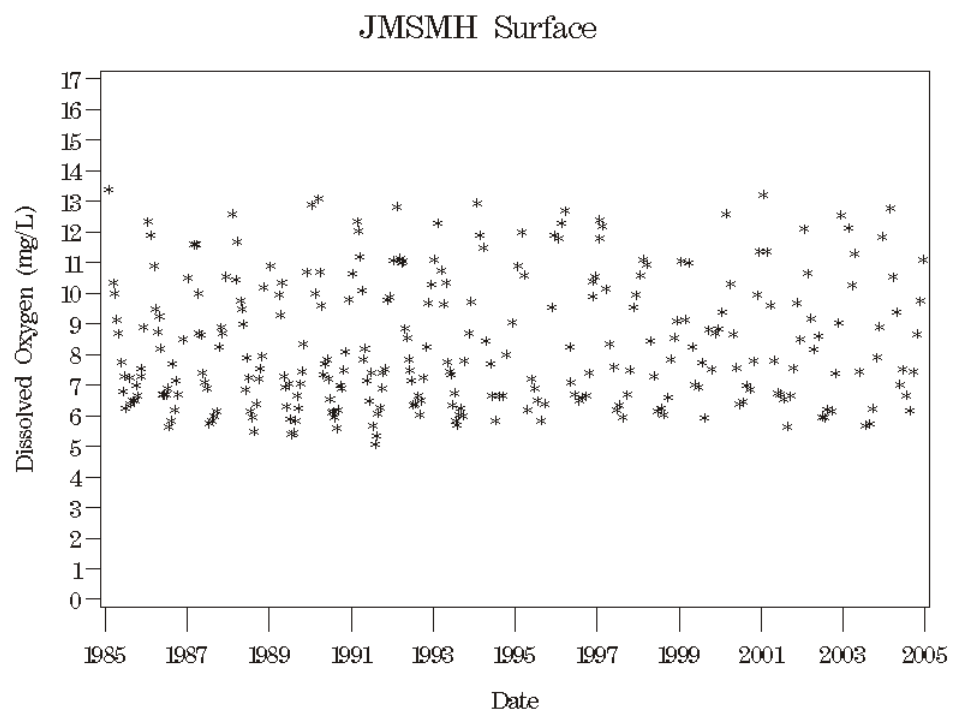


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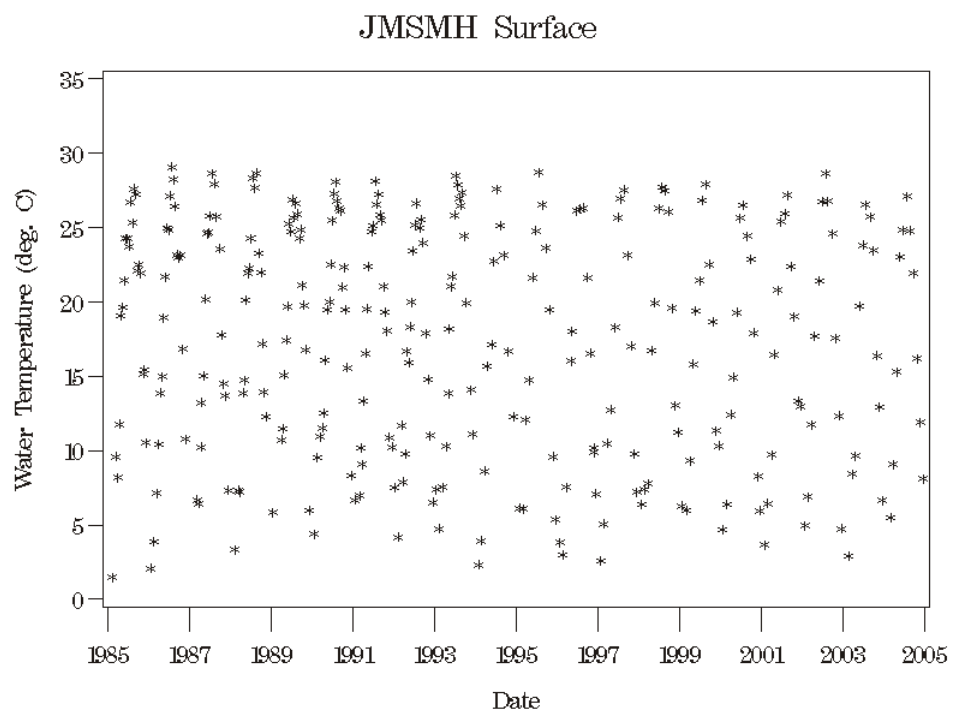


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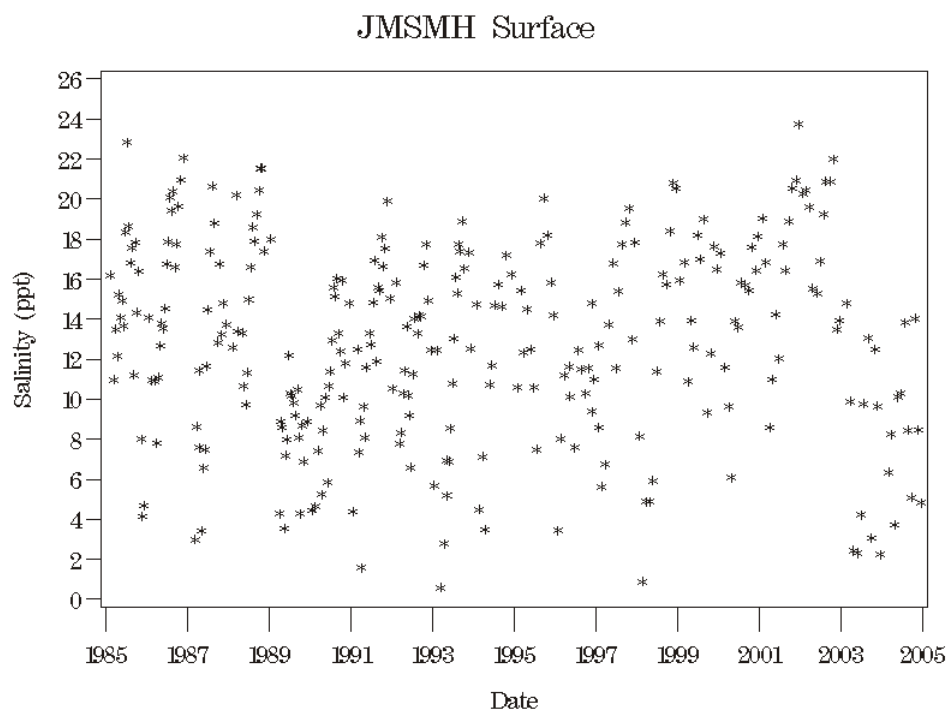
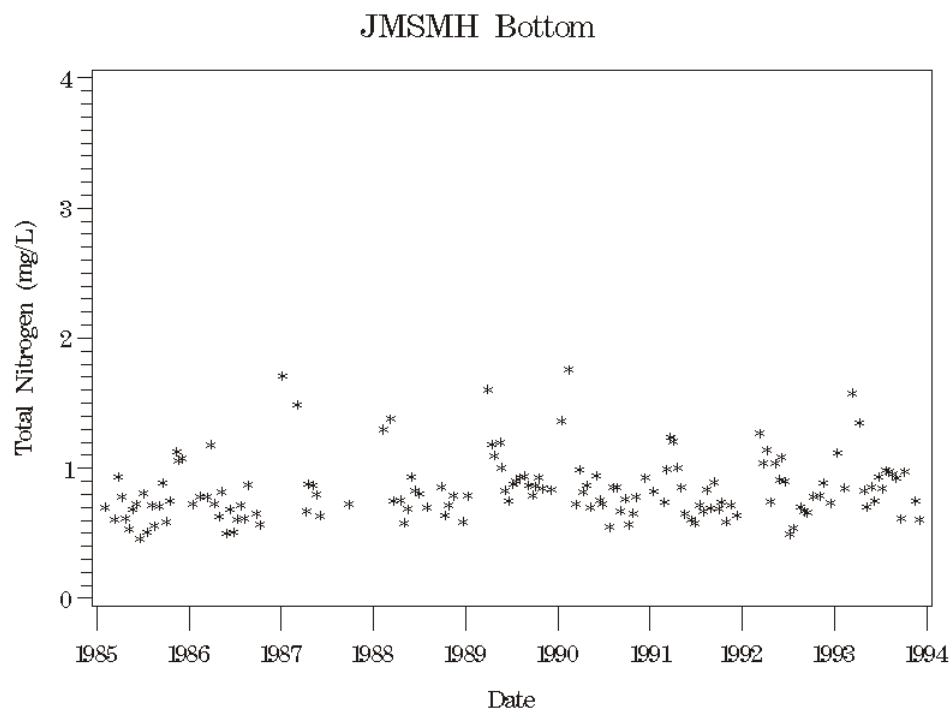


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a) Pre-method change period



b) Post-method change period

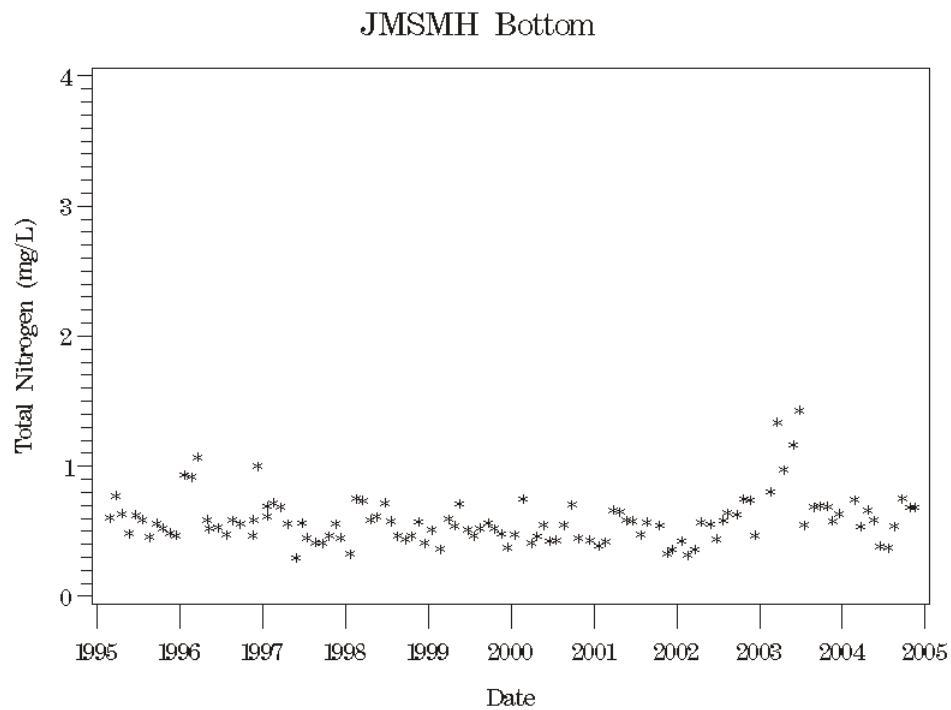
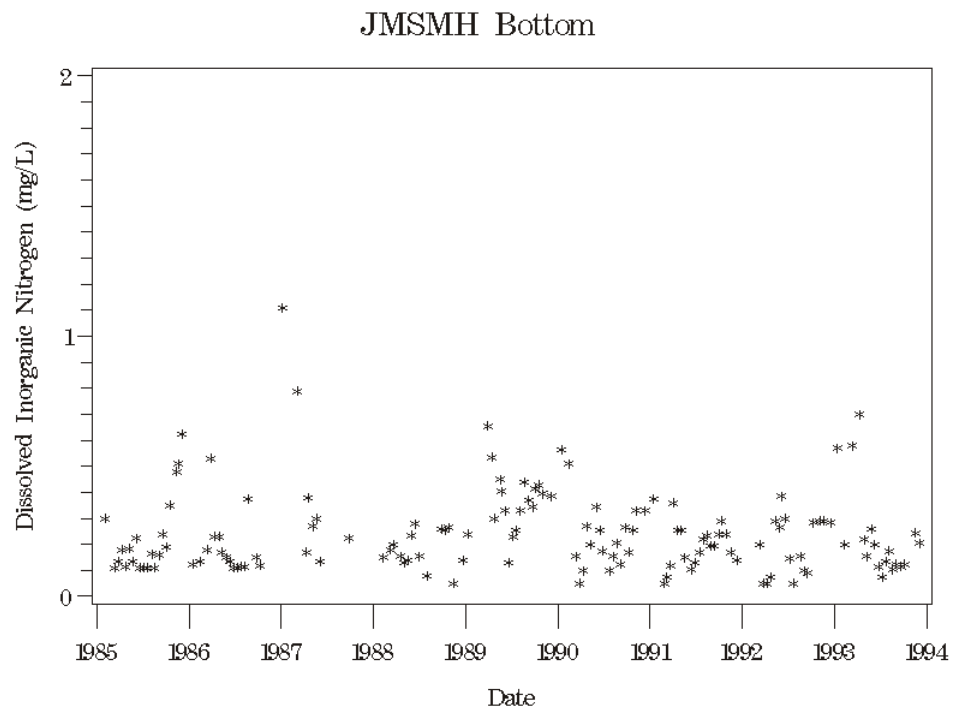


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a) Pre-method change period



b) Post-method change period

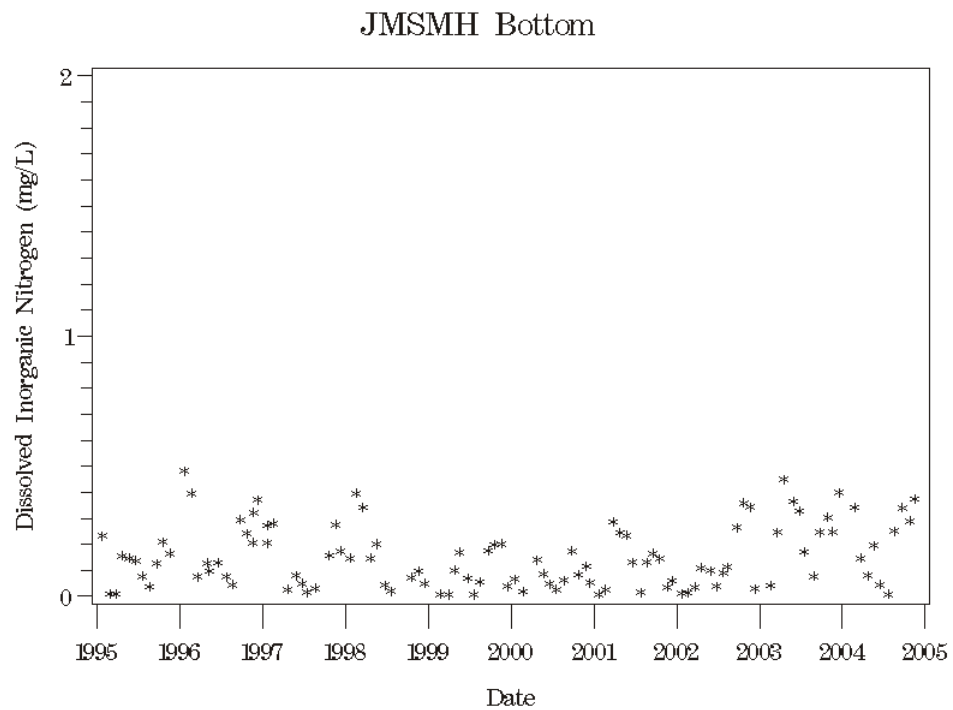
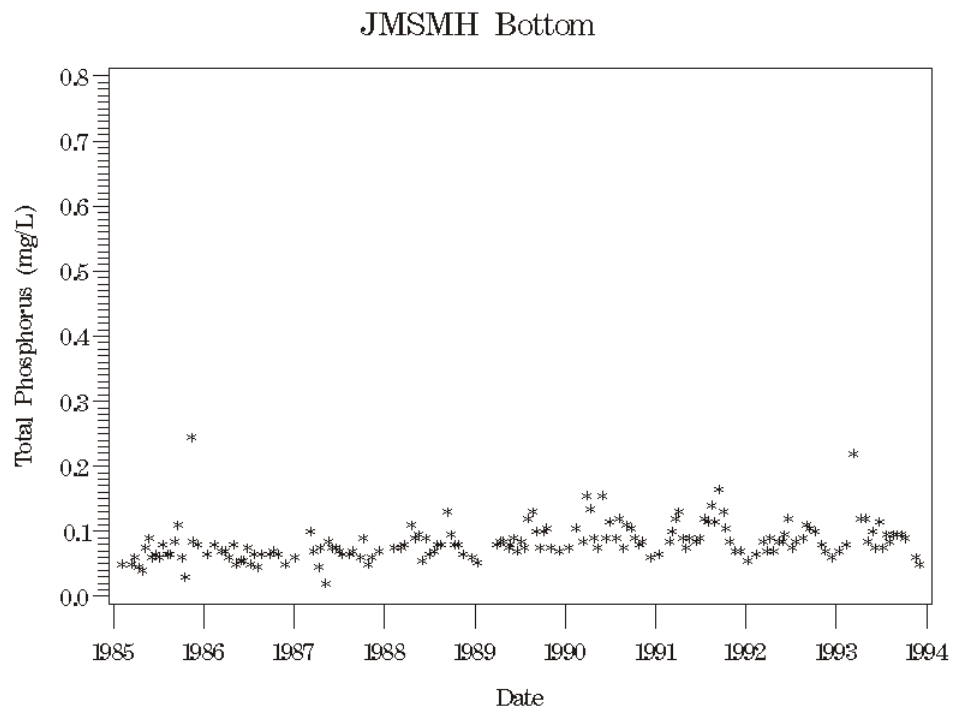


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a) Pre-method change period



b) Post-method change period

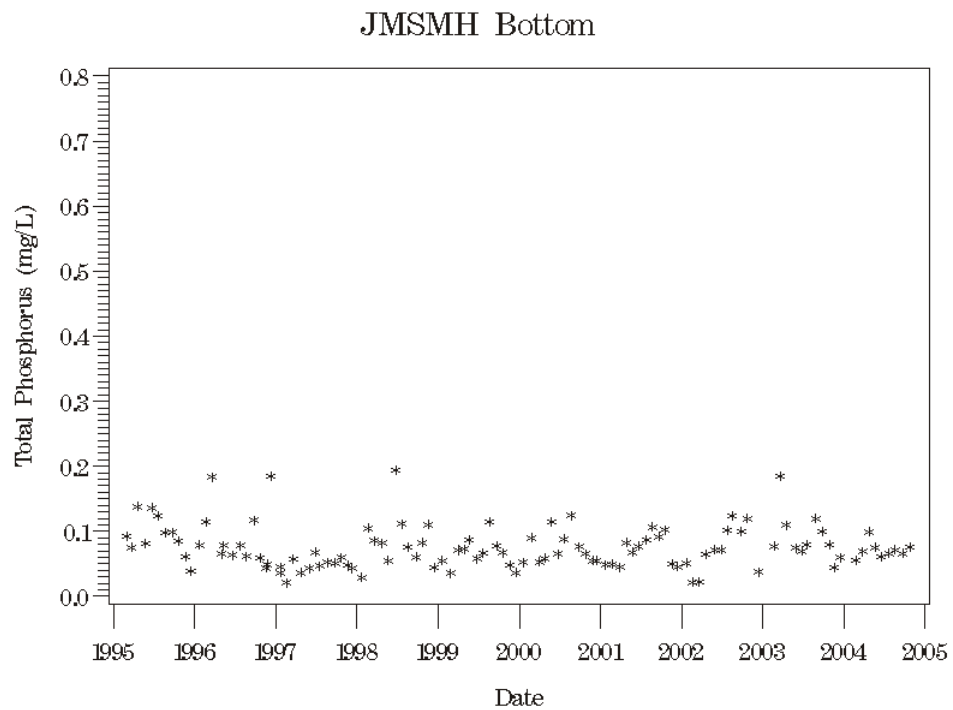
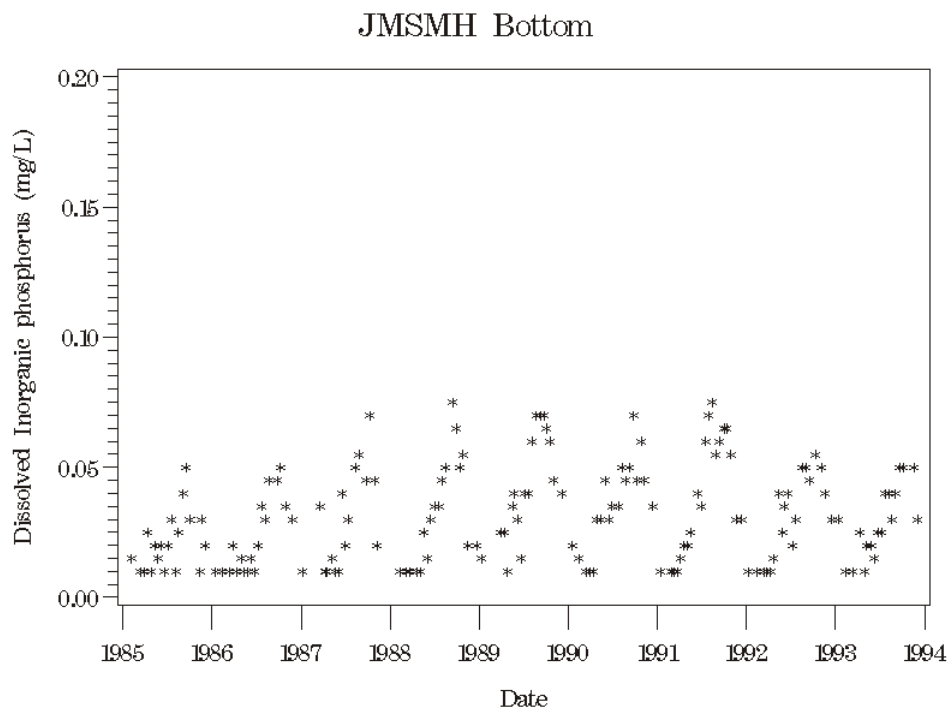


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a) Pre-method change period



b) Post-method change period

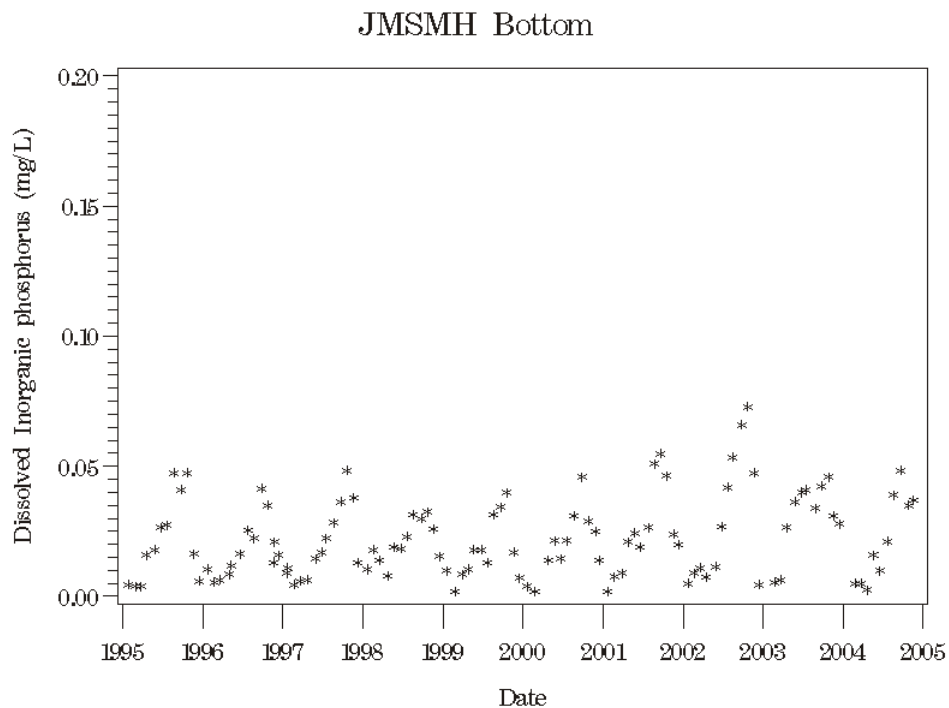


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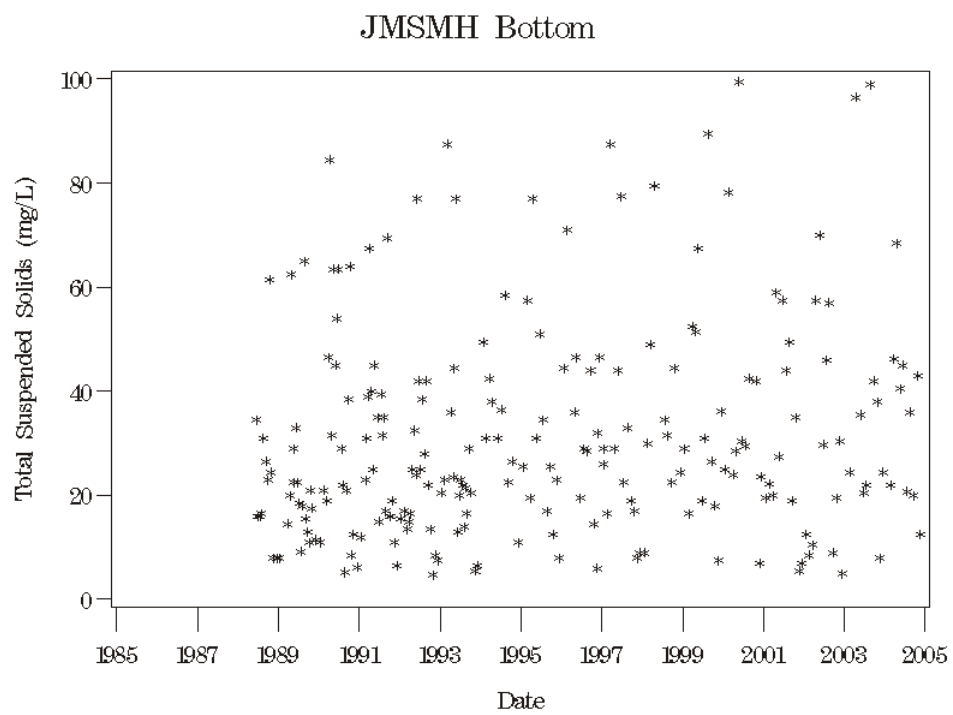


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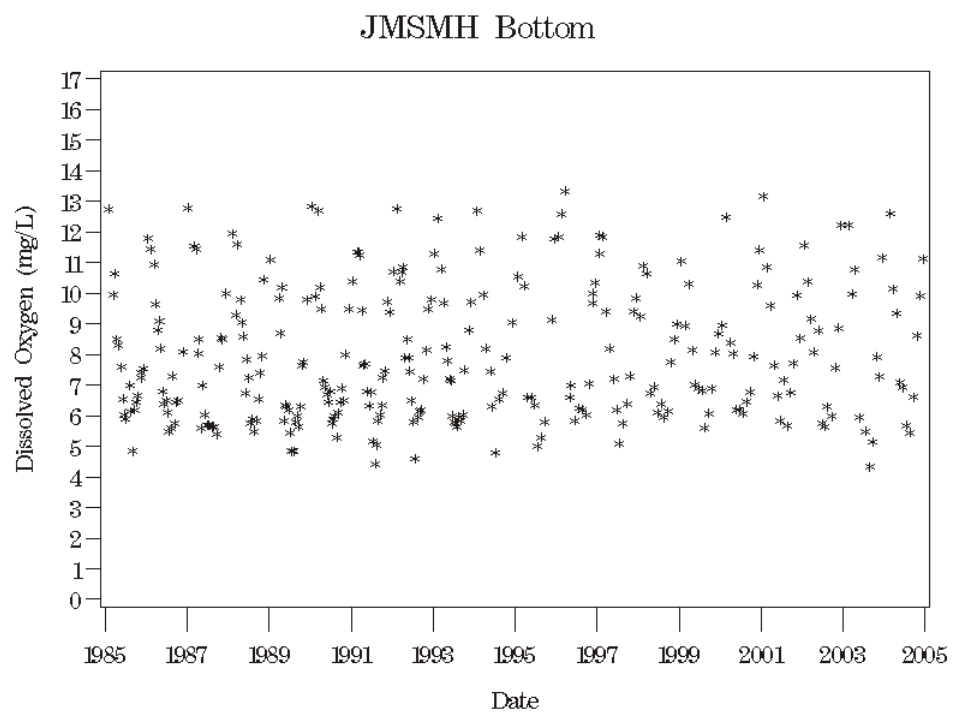


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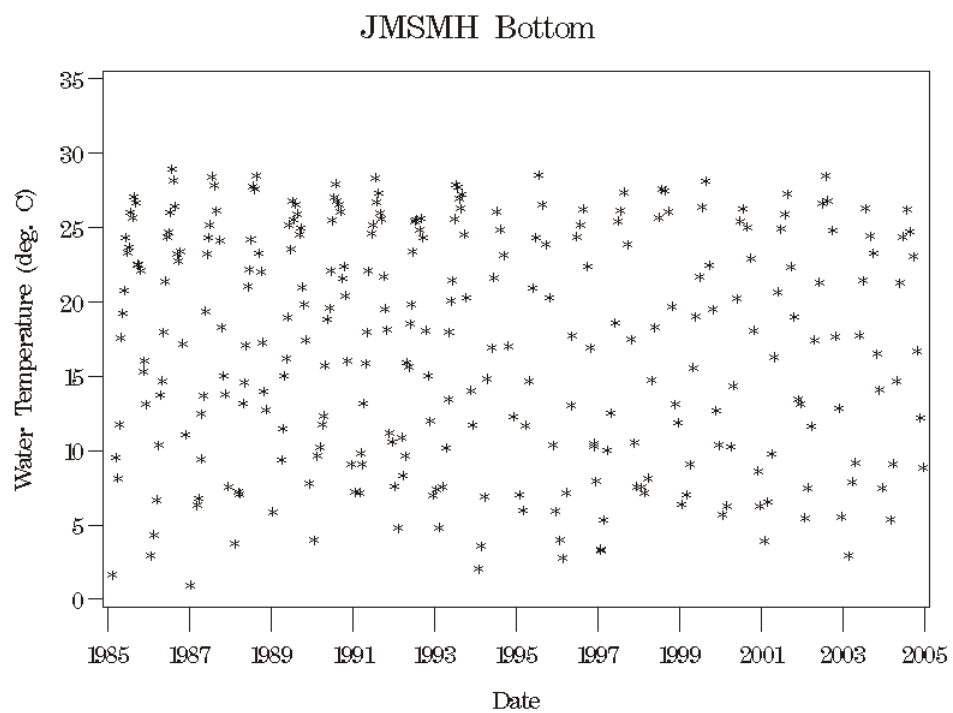


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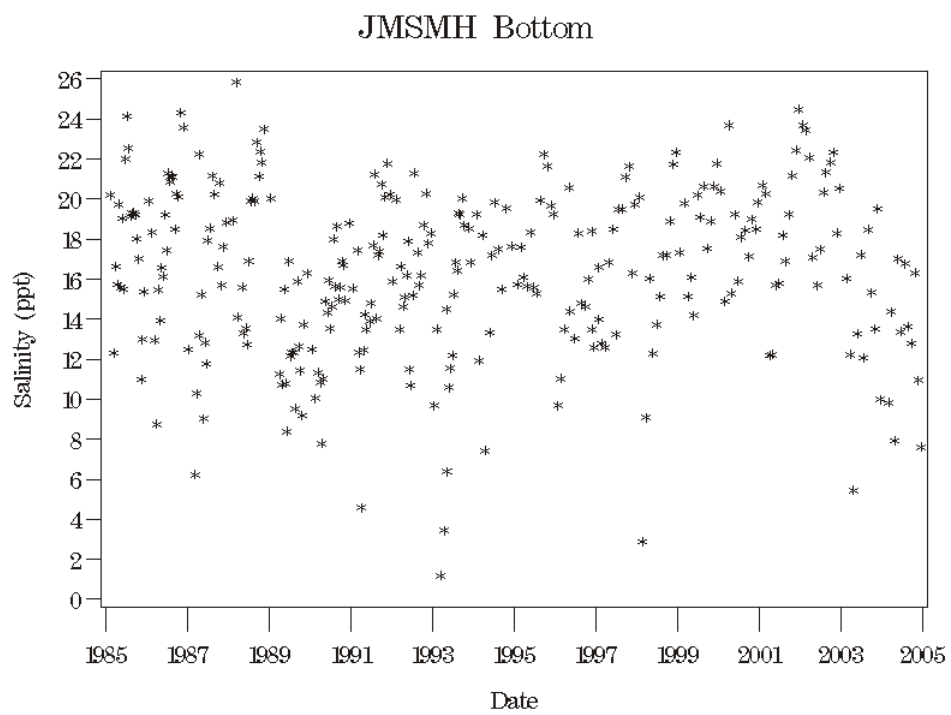
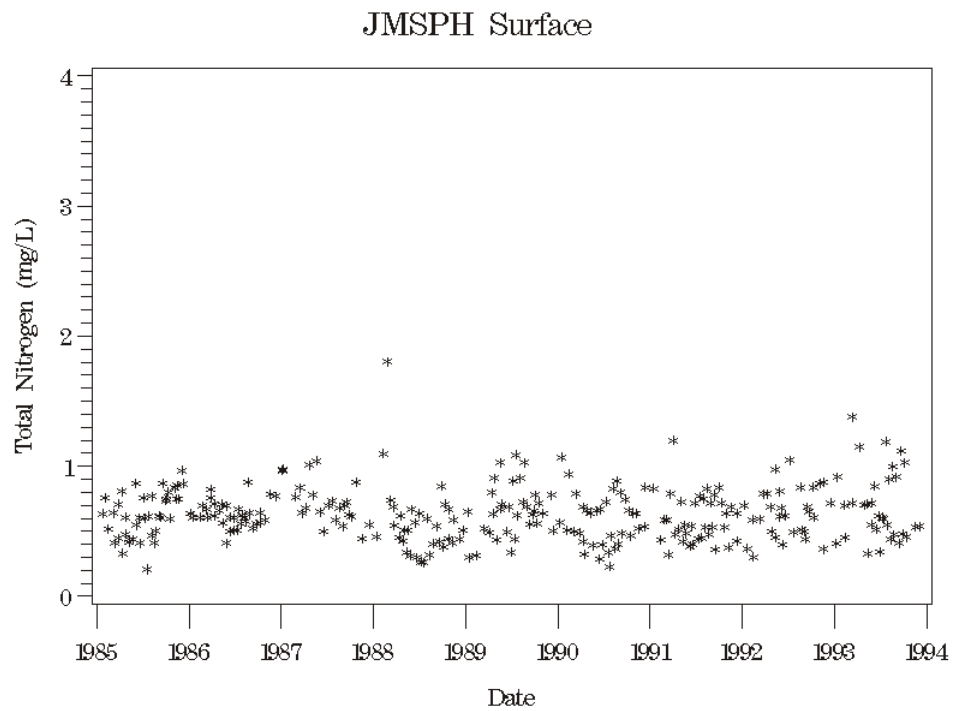


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a) Pre-method change period



b) Post-method change period

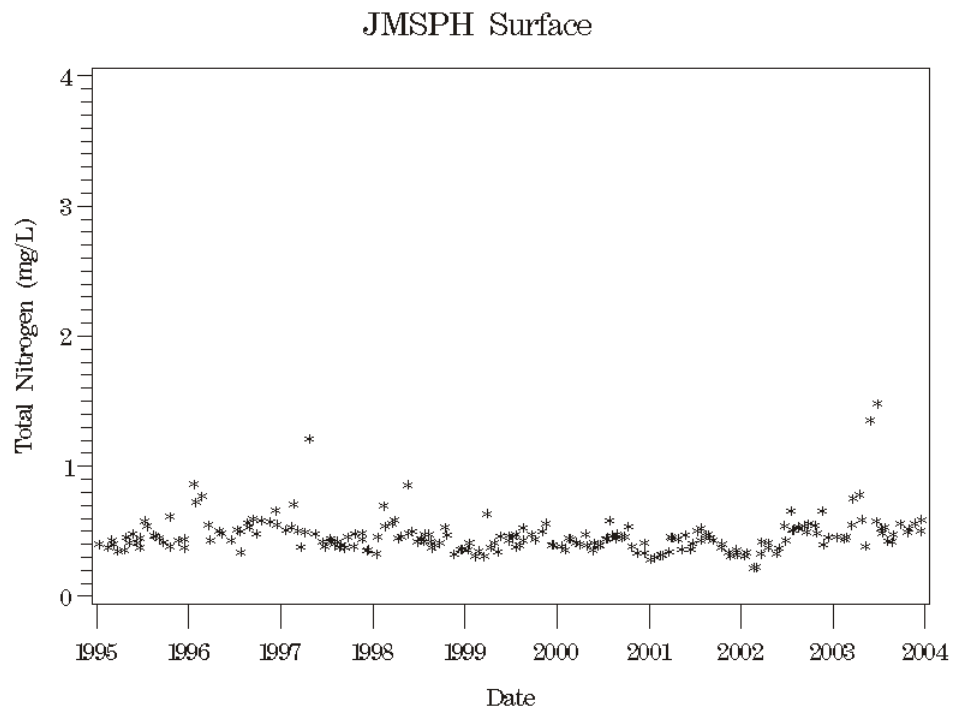
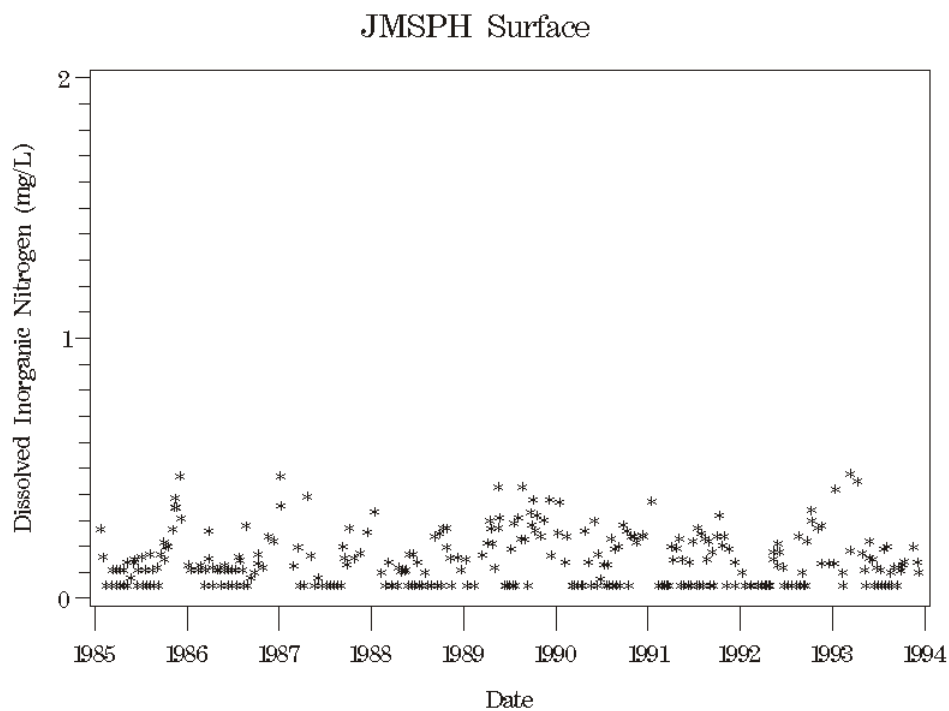


Figure 91. Scatterplots of surface total nitrogen at segment JMSPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

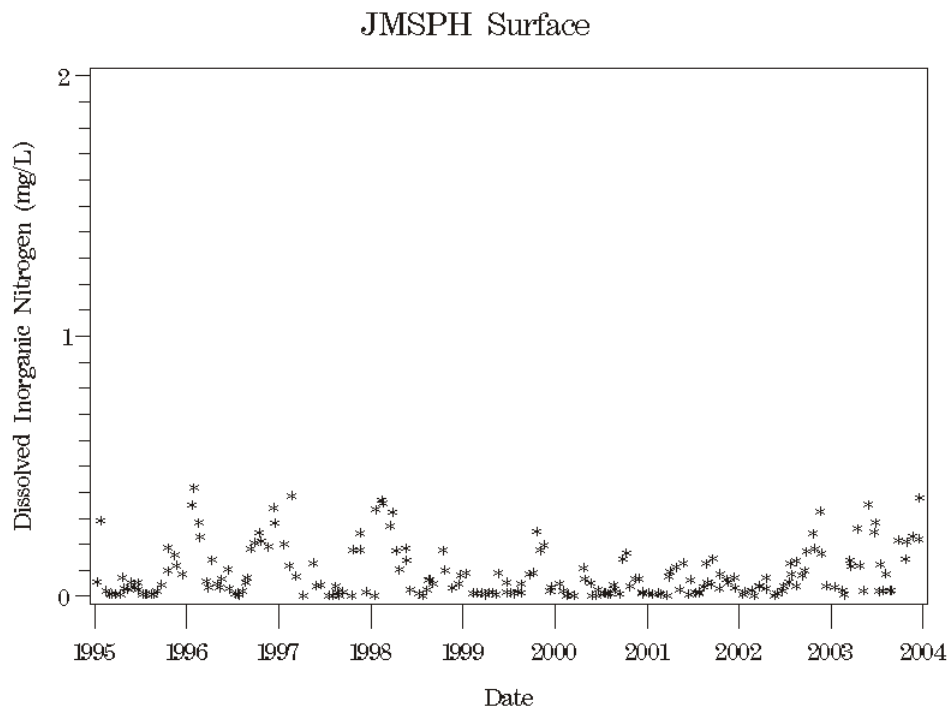
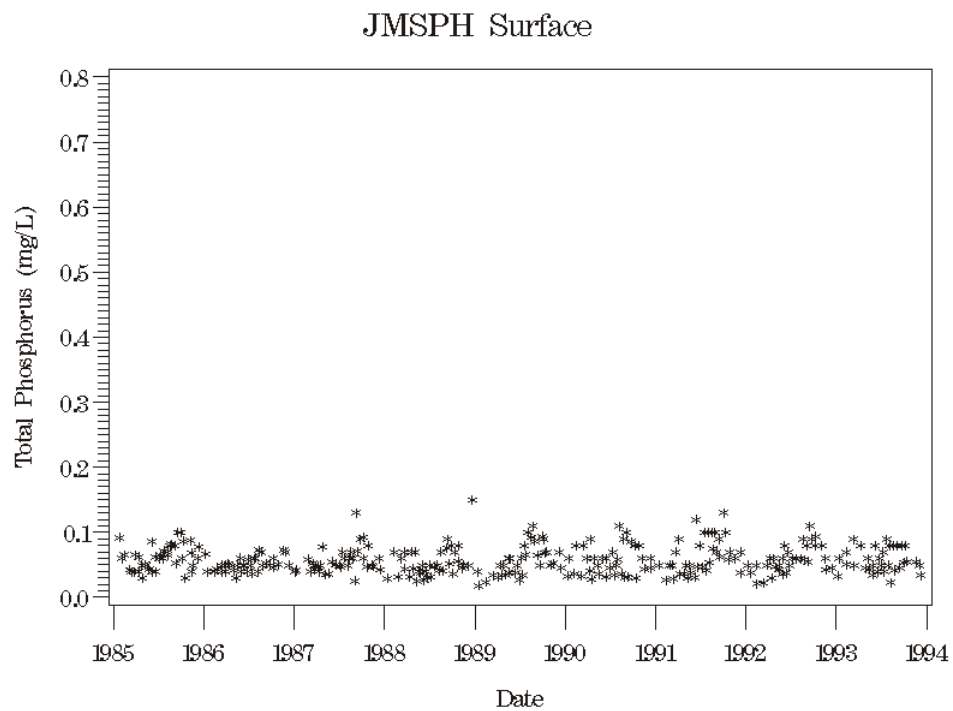


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a) Pre-method change period



b) Post-method change period

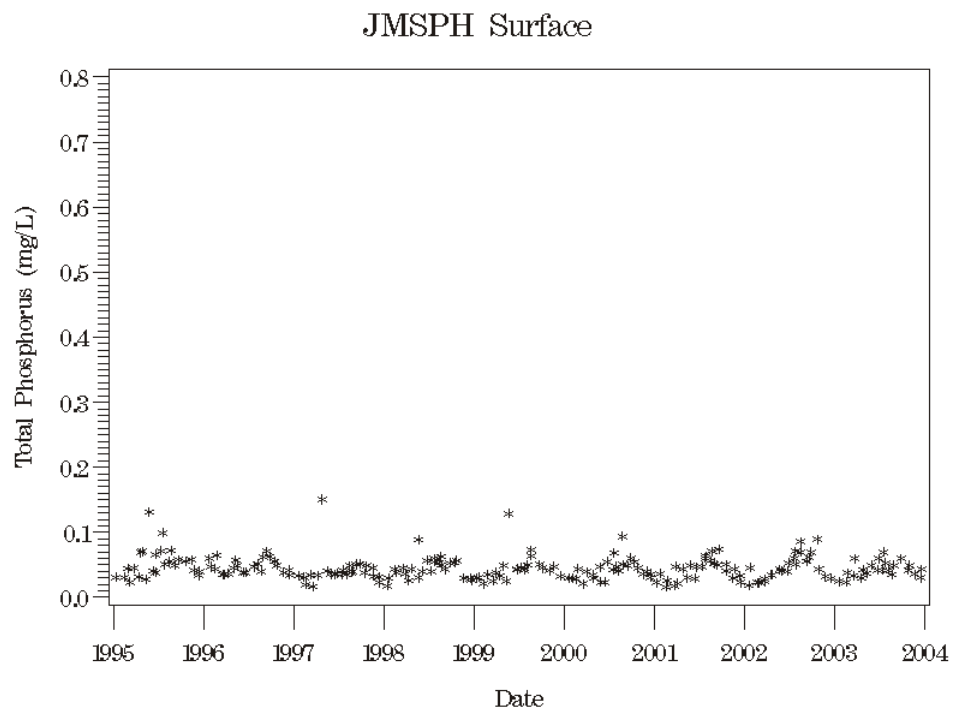
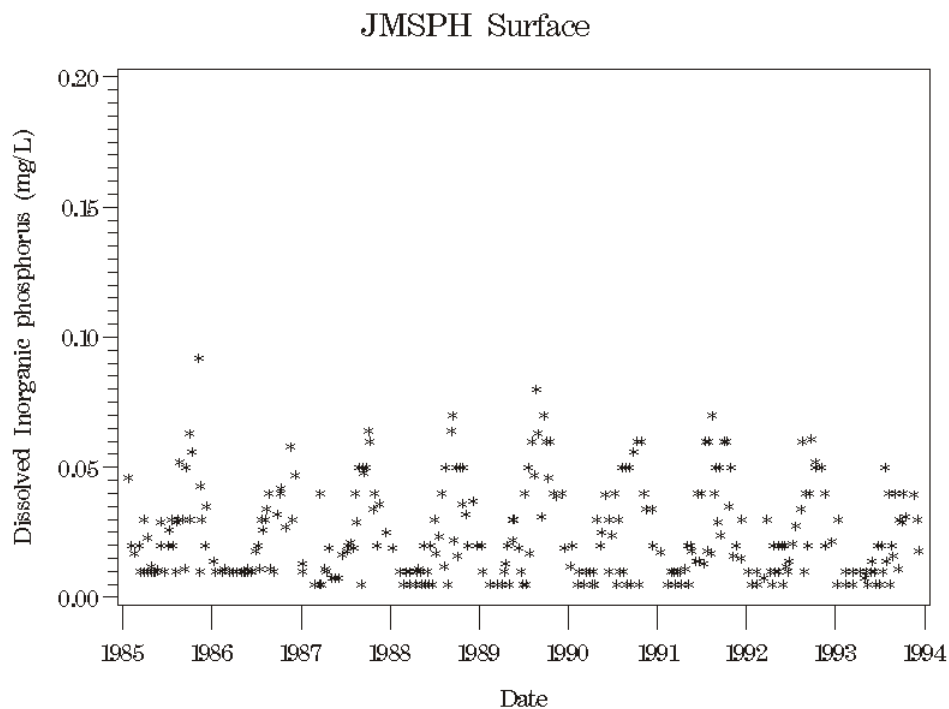


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a) Pre-method change period



b) Post-method change period

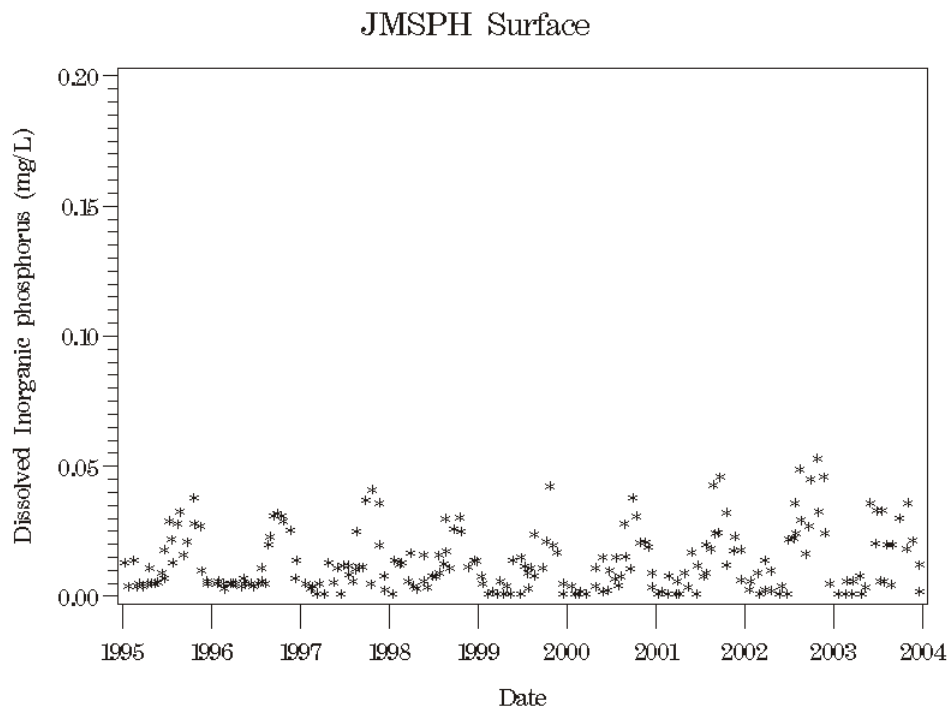


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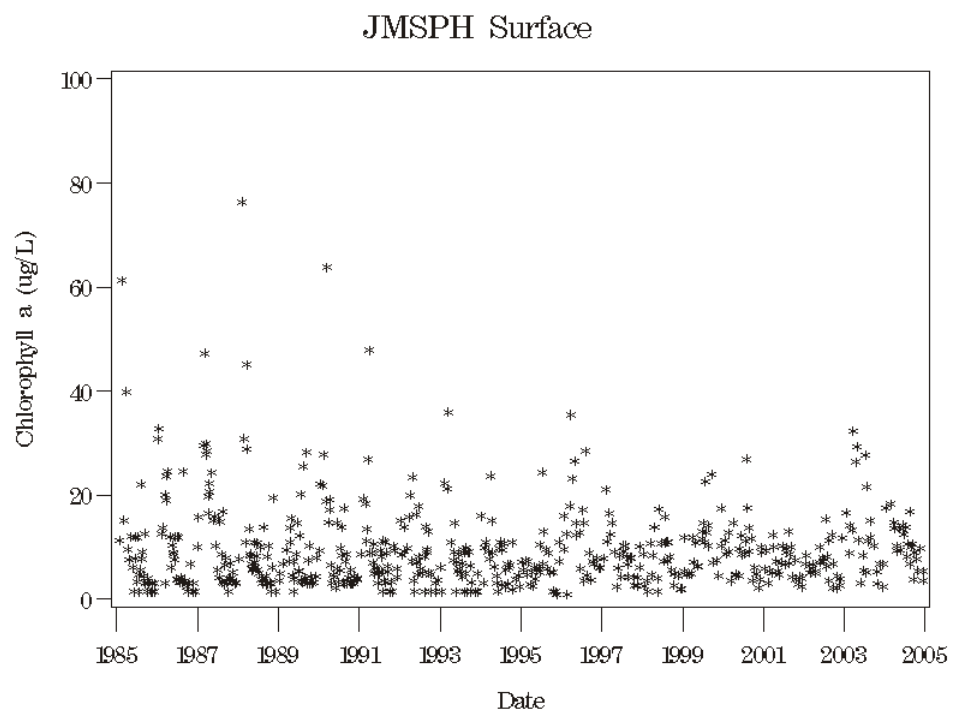


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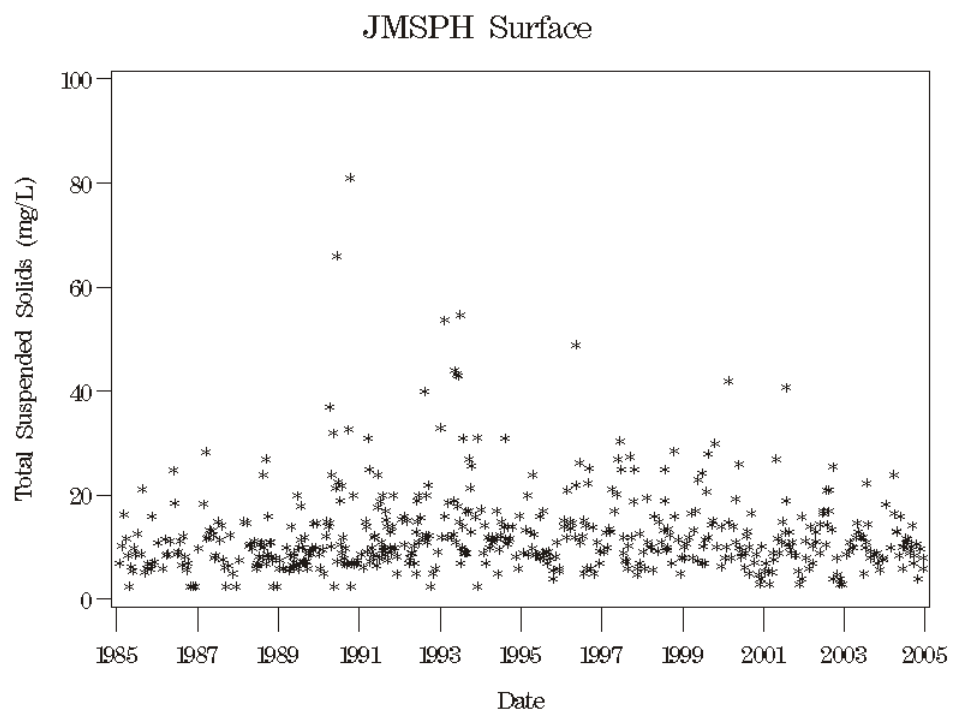


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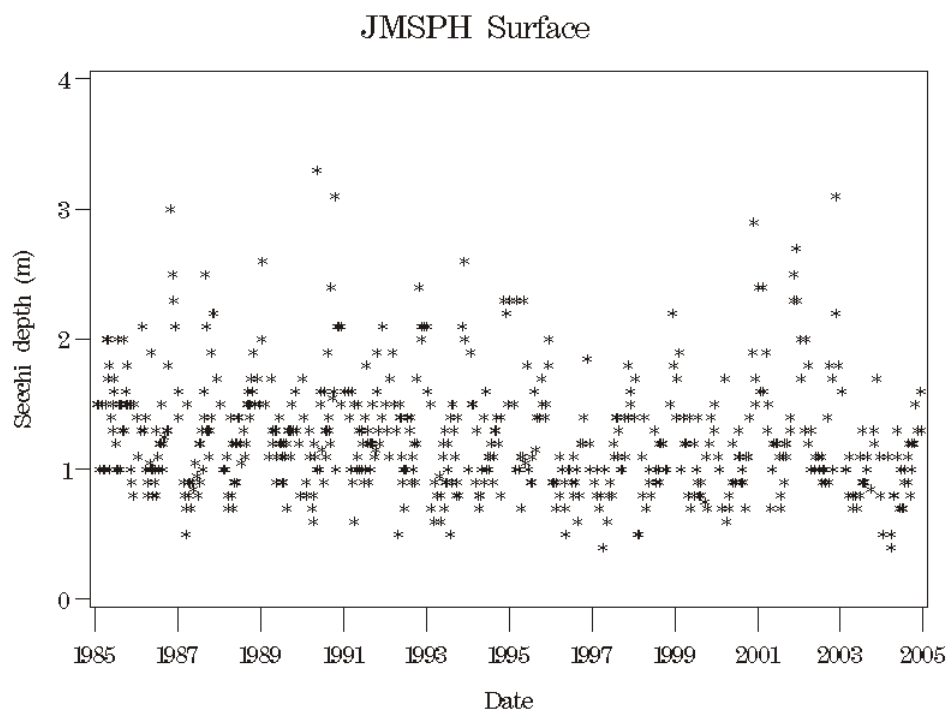


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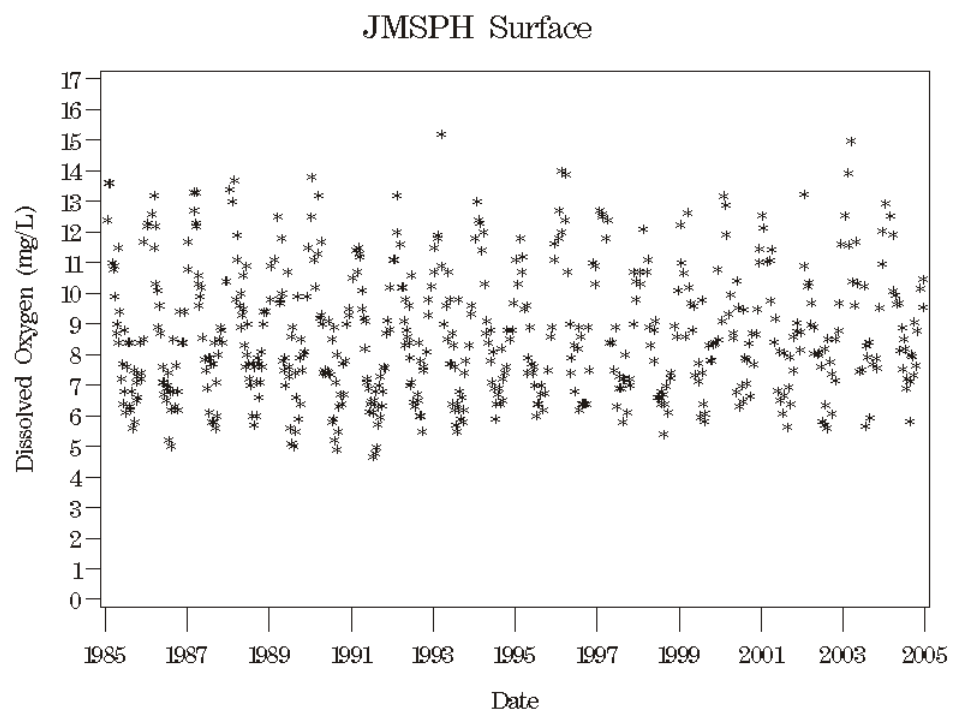


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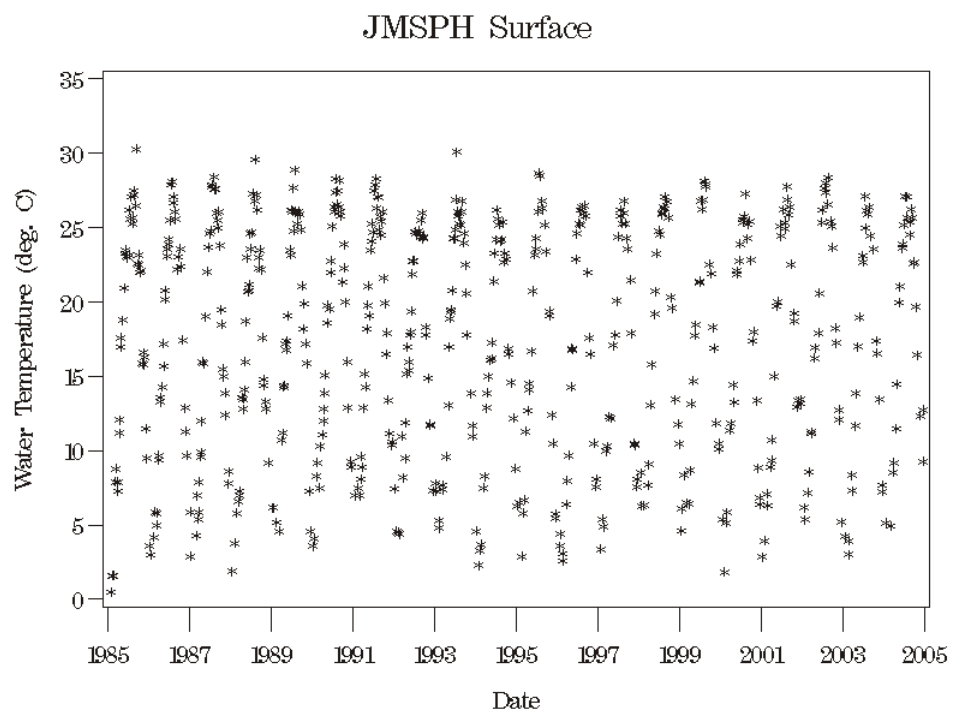


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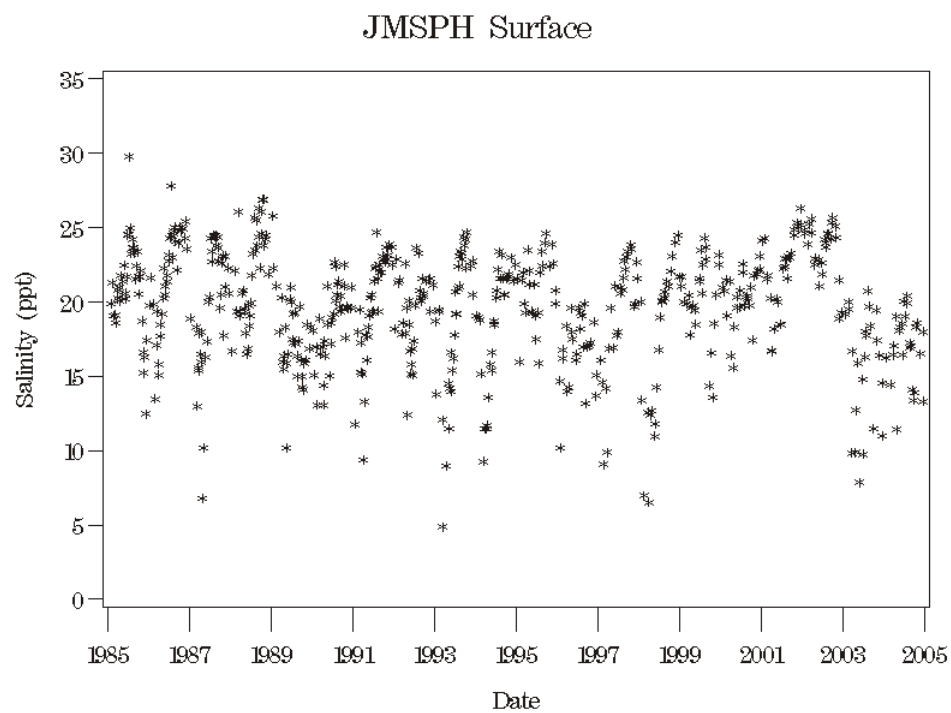
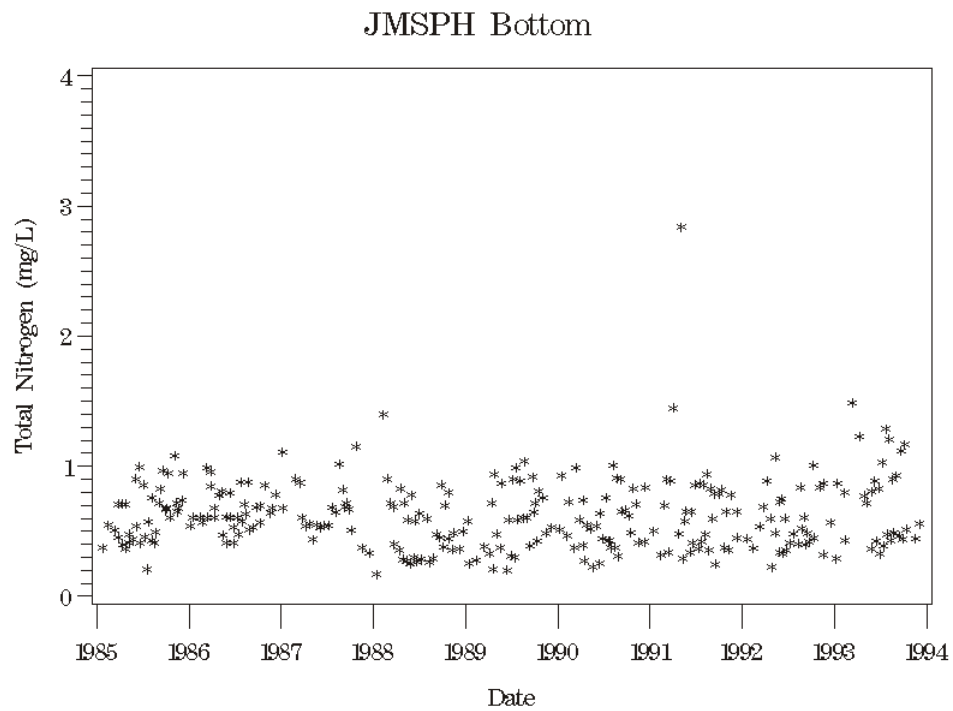


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a) Pre-method change period



b) Post-method change period

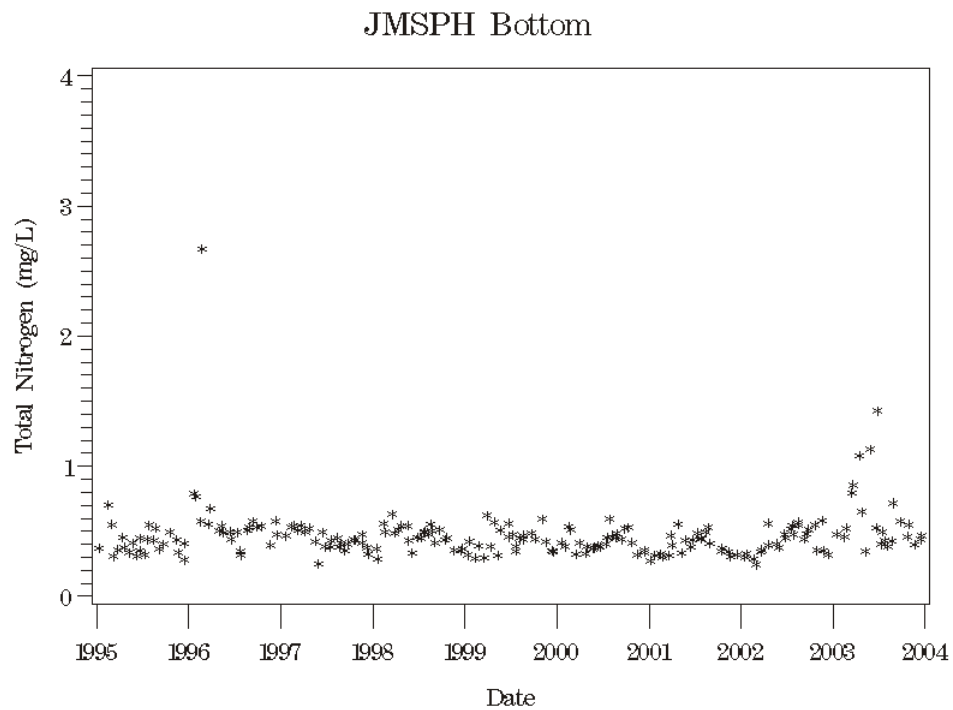
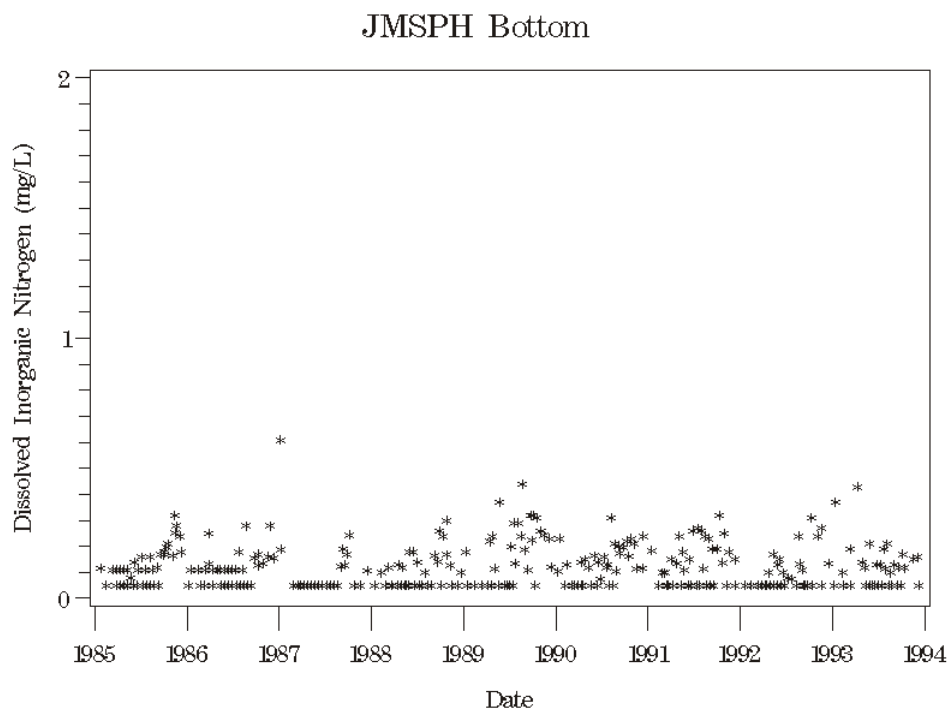


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a) Pre-method change period



b) Post-method change period

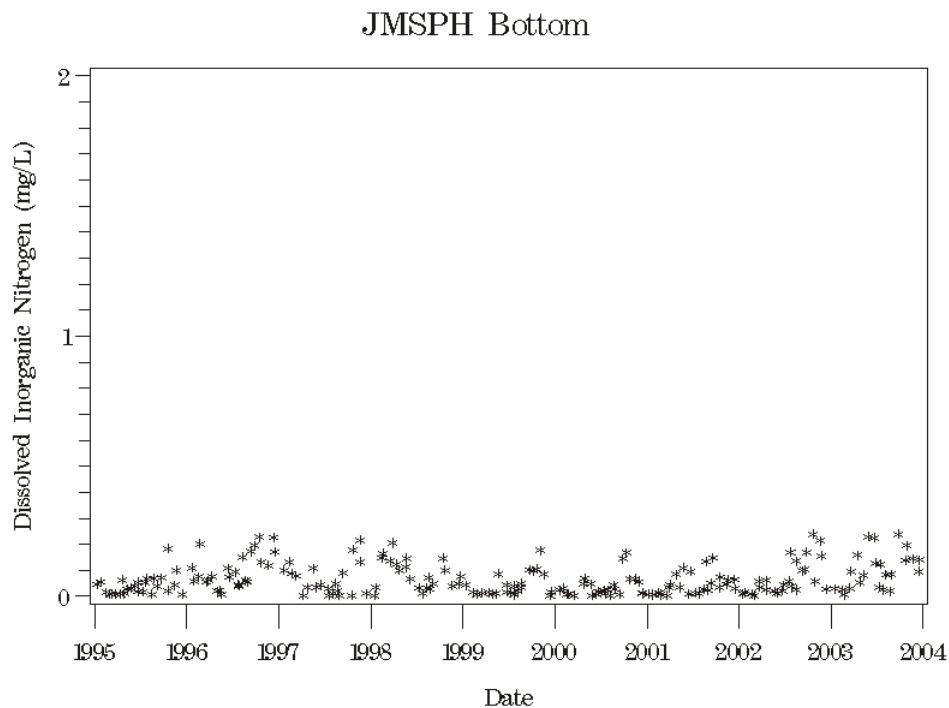
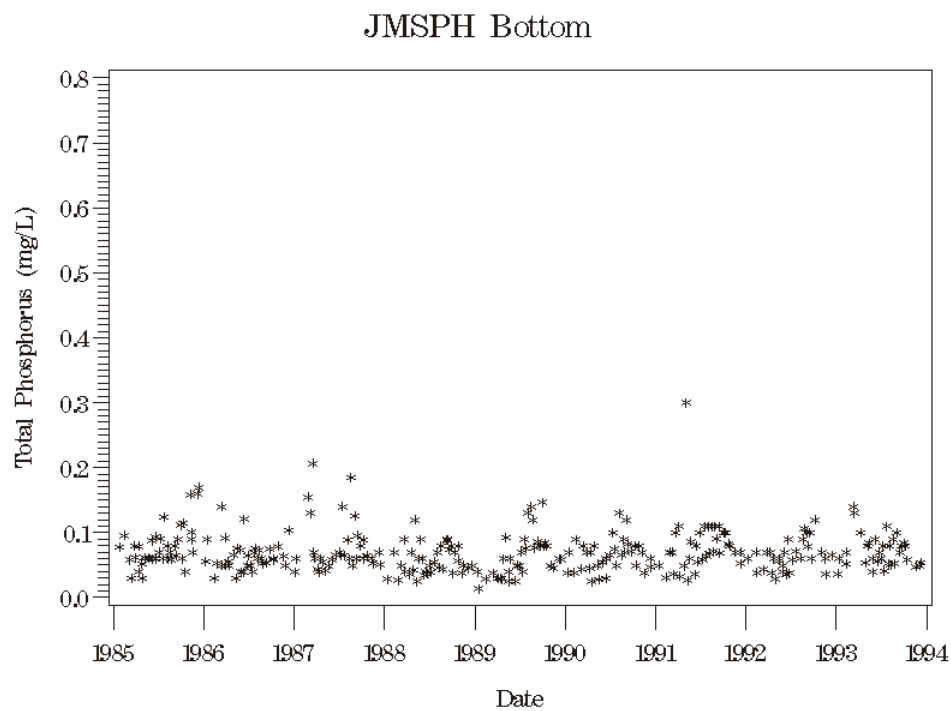


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a) Pre-method change period



b) Post-method change period

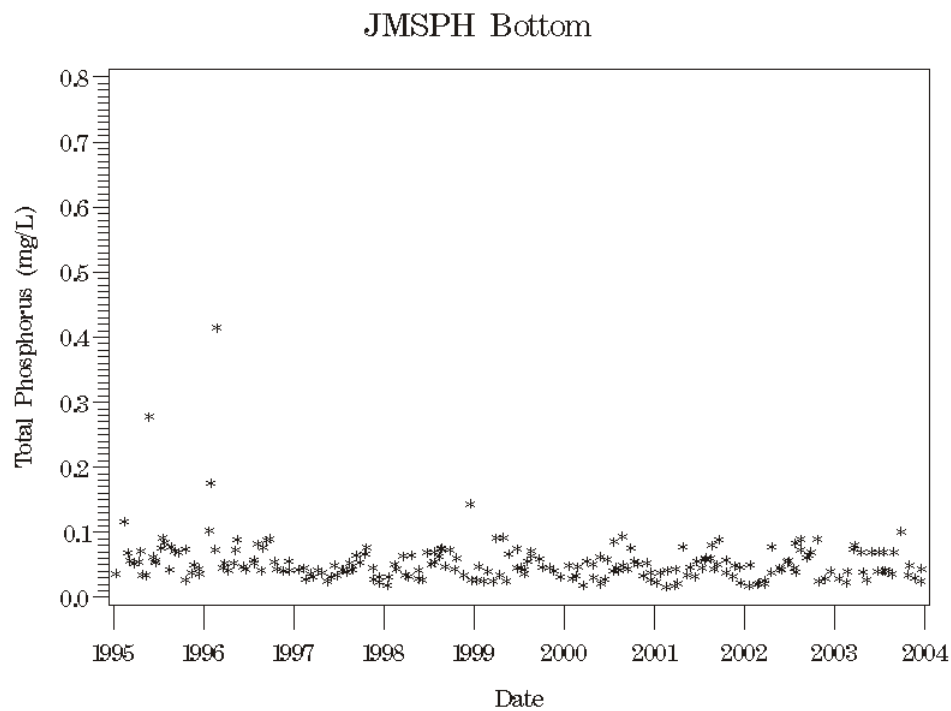
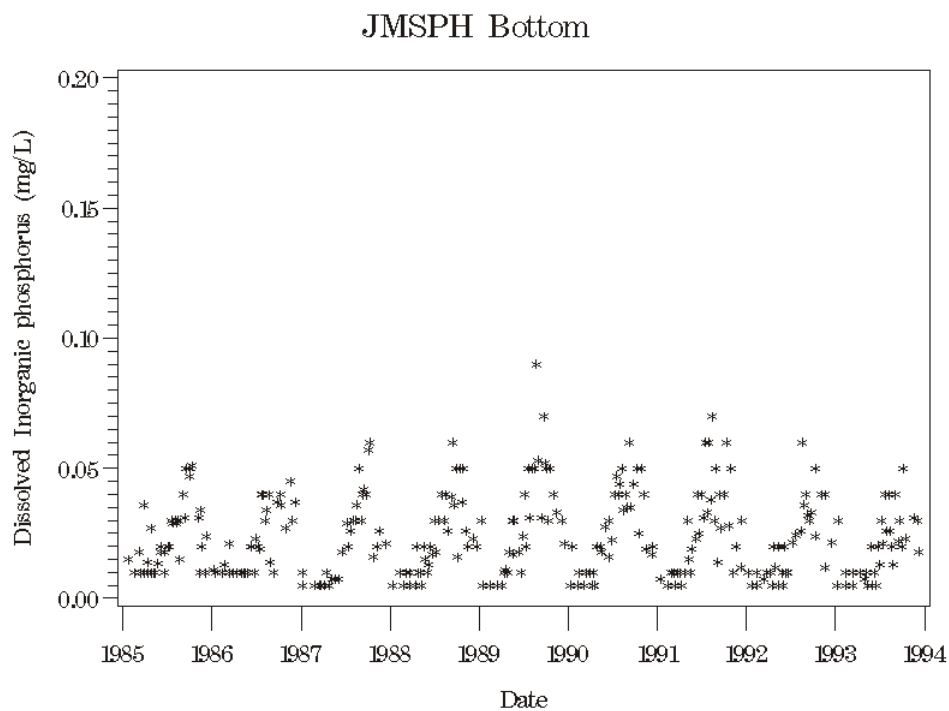


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a) Pre-method change period



b) Post-method change period

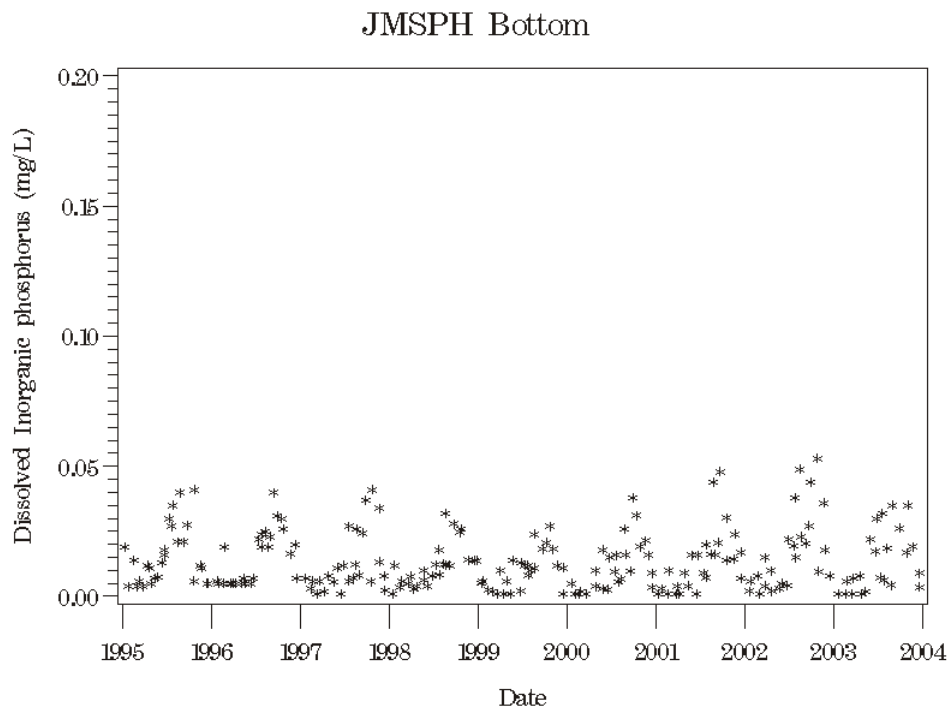


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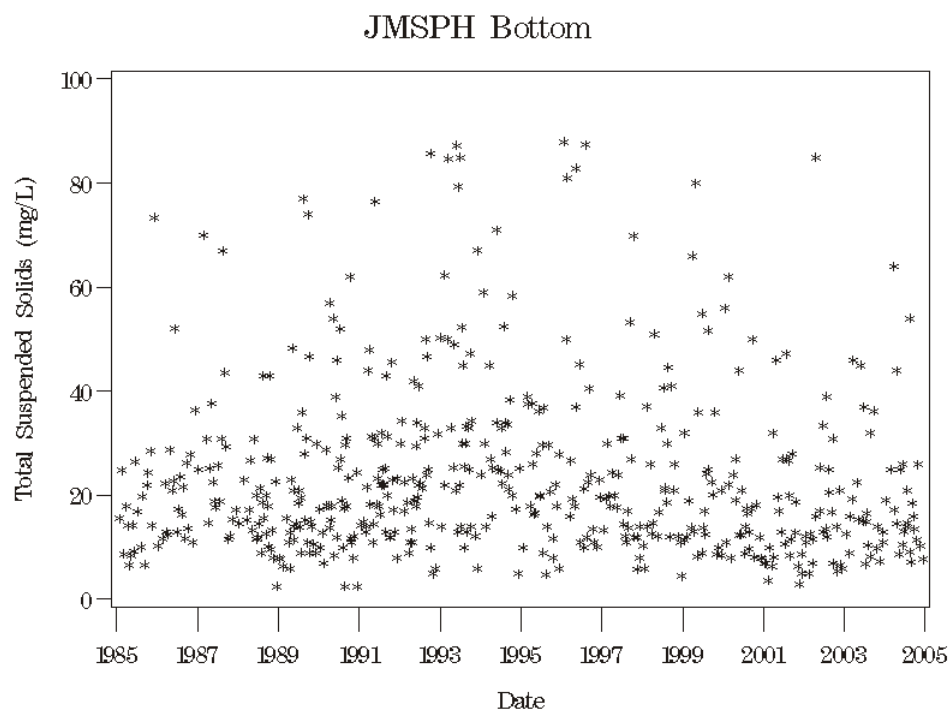


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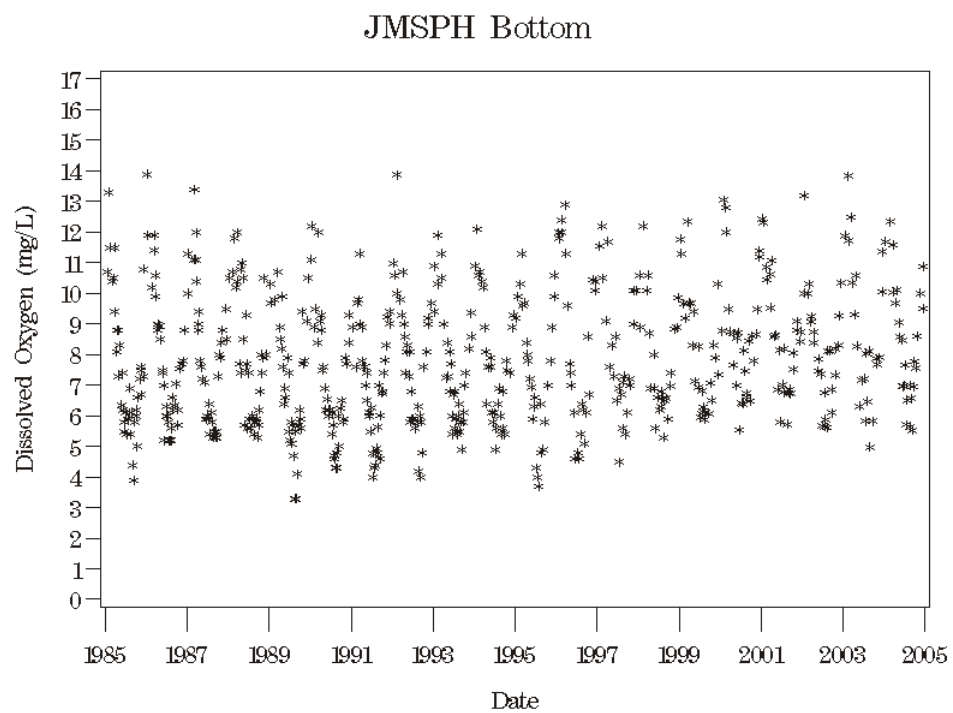


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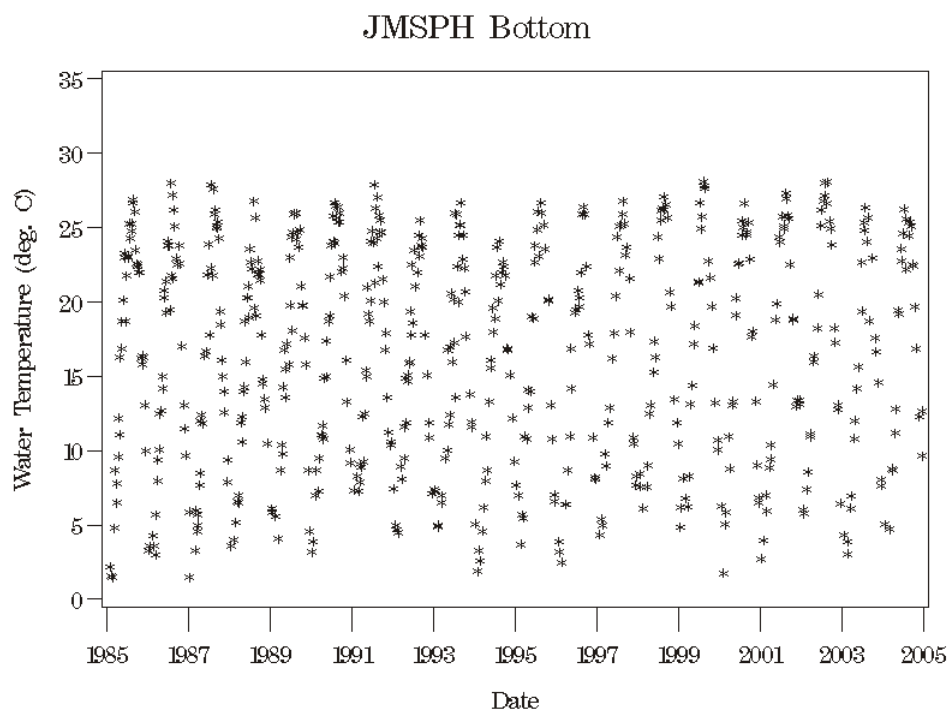


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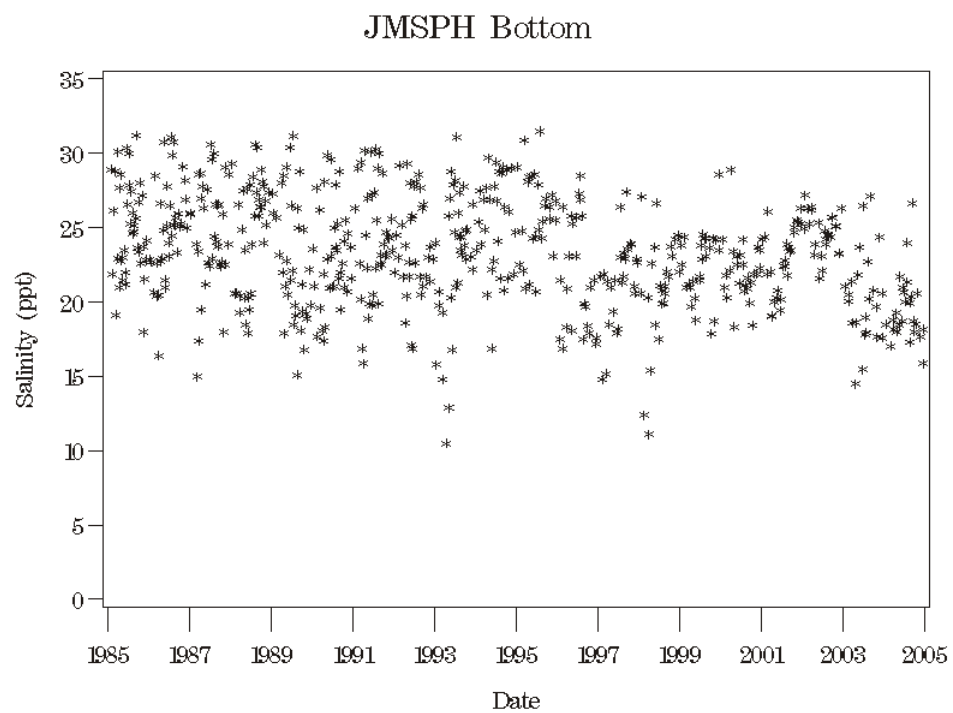


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Appendix C - Water Quality Scatterplots
Section II - Elizabeth River

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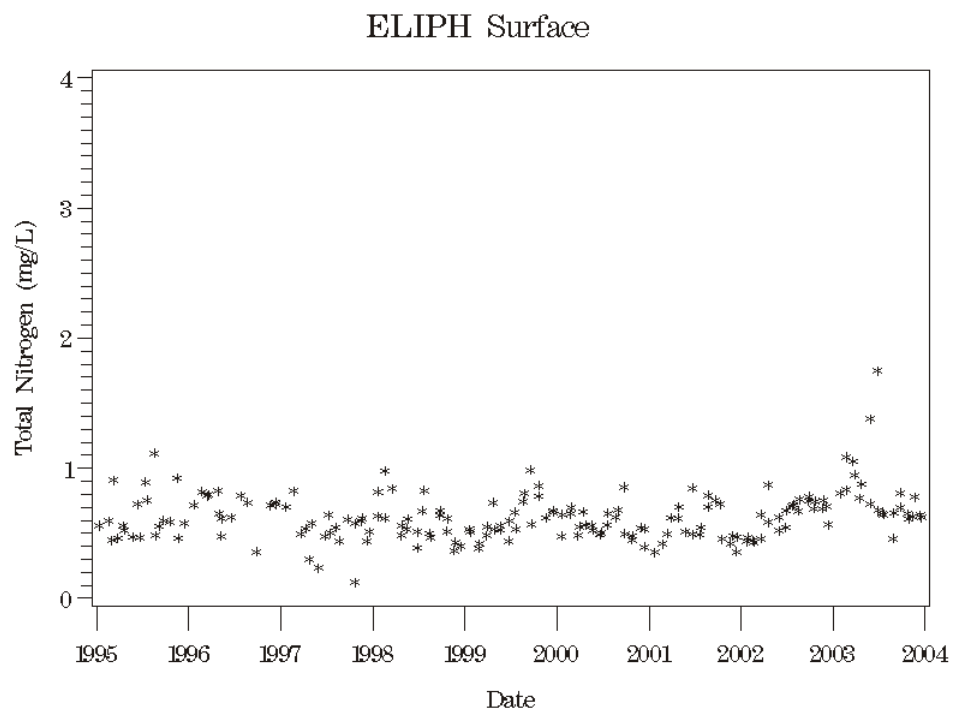
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a) Pre-method change period



b) Post-method change period

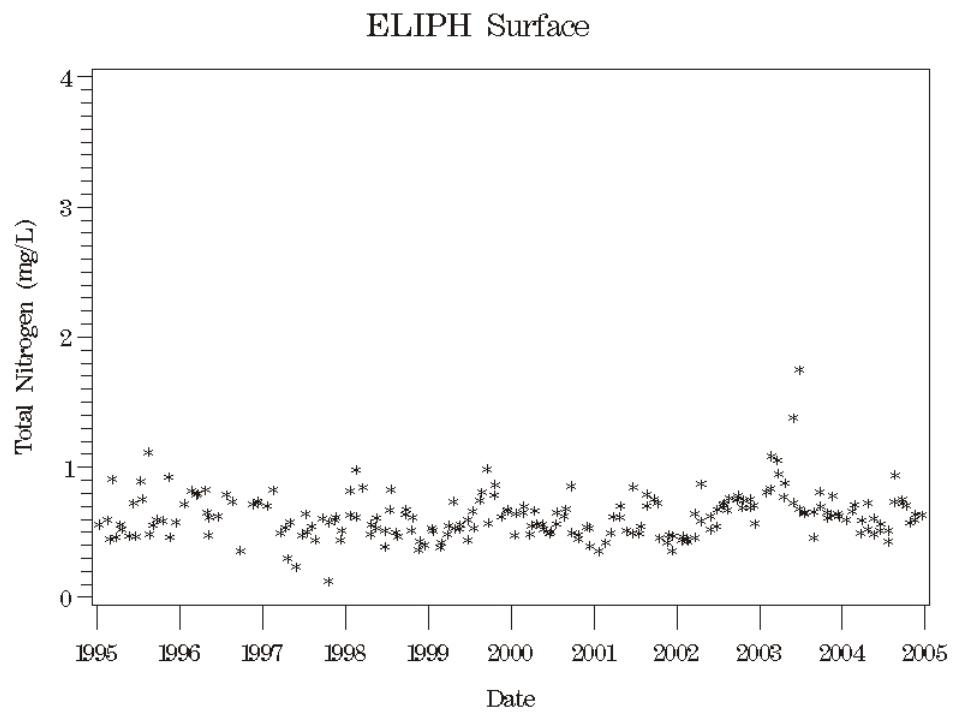
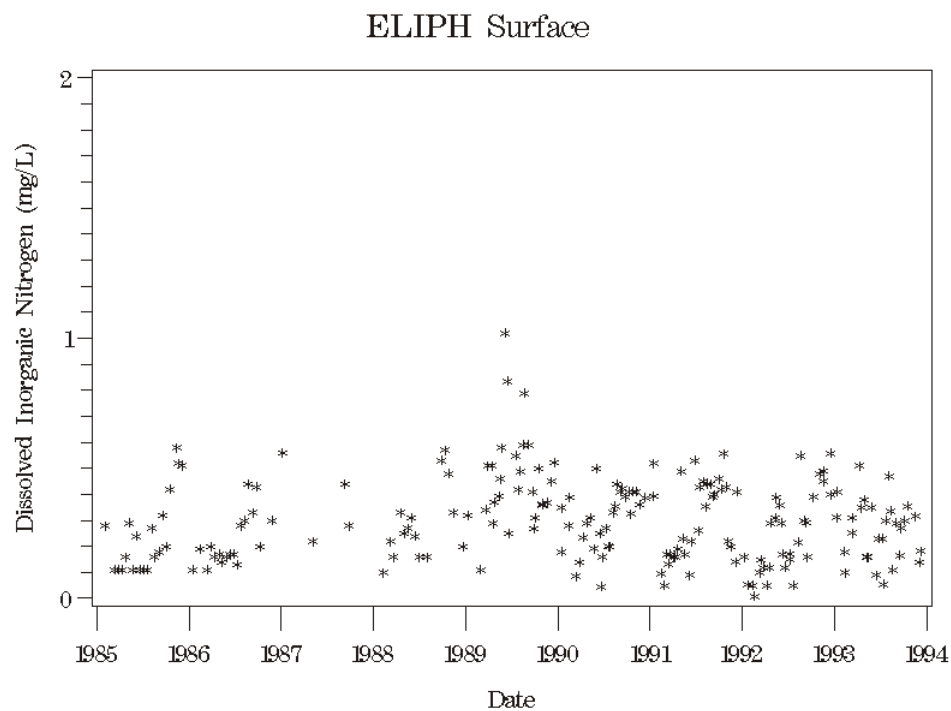


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a) Pre-method change period



b) Post-method change period

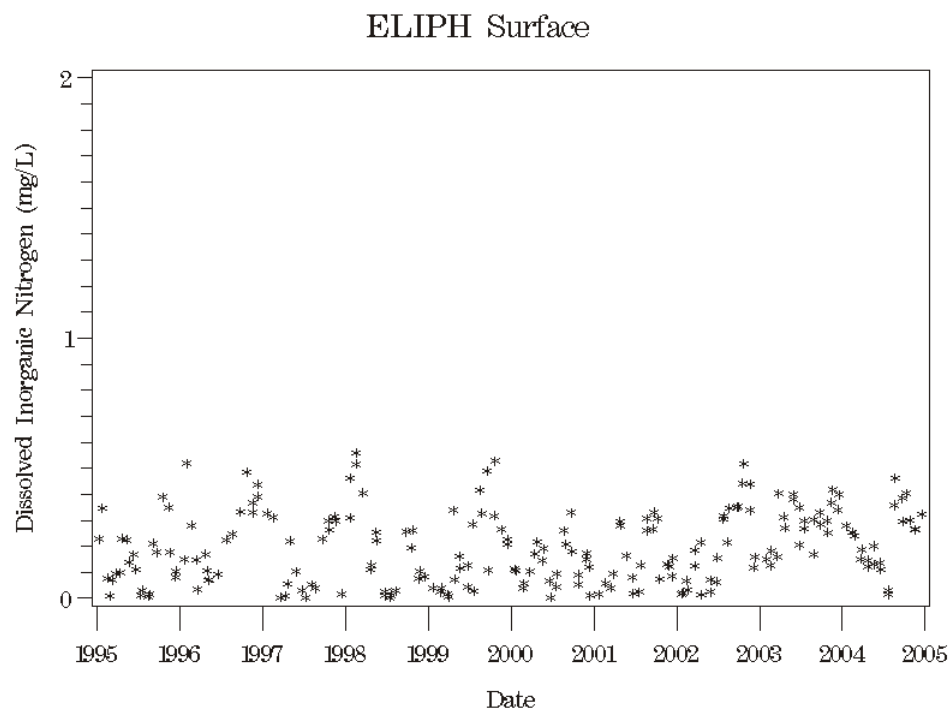
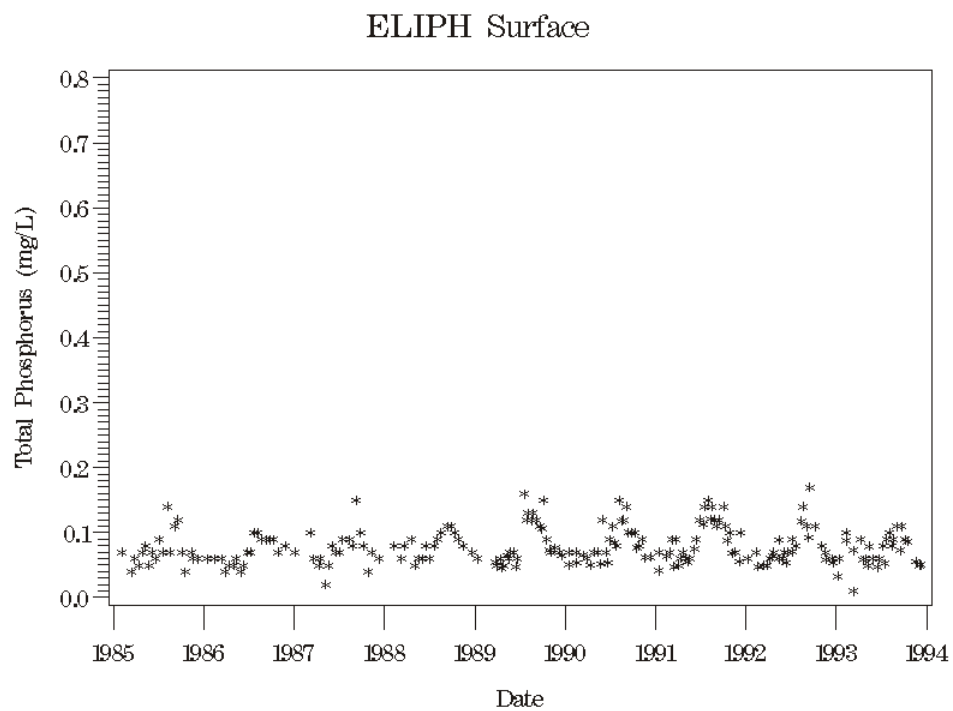


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

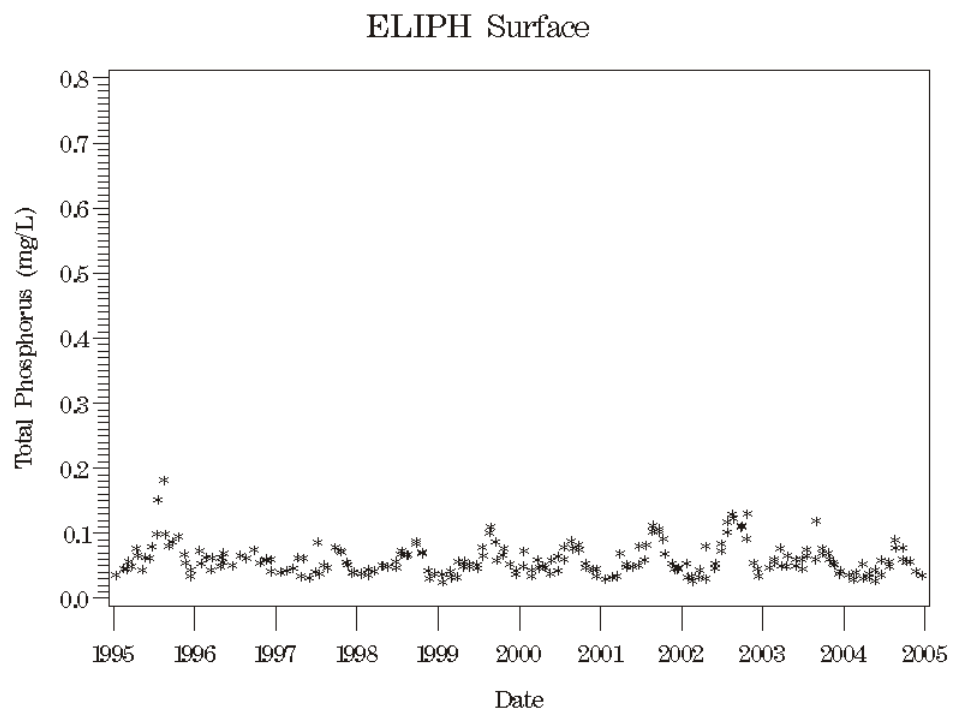
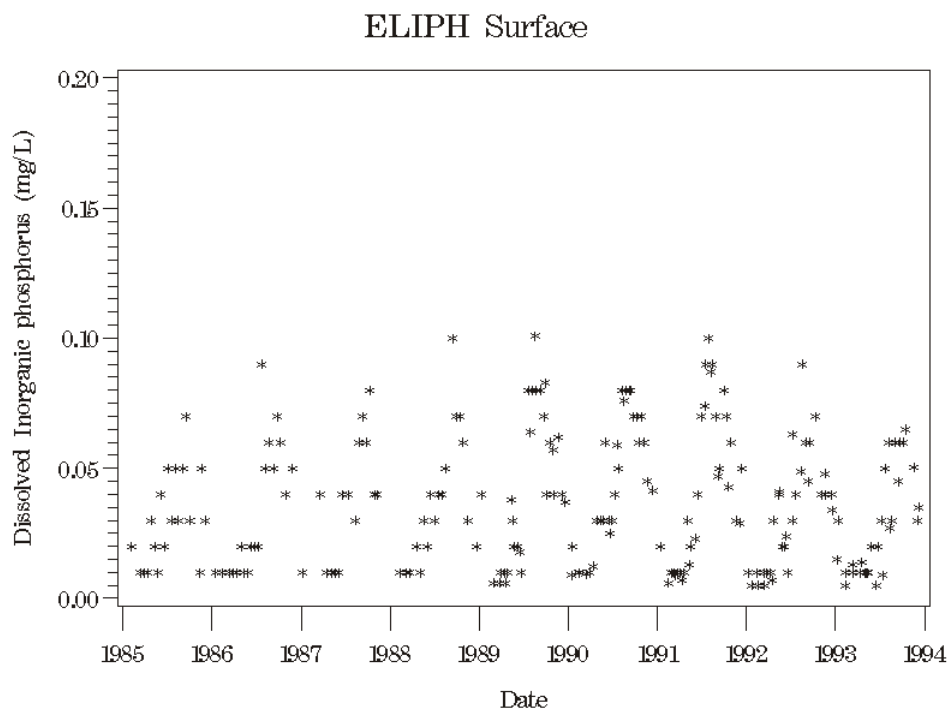


Figure 3. Scatterplots of surface total phosphorus at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

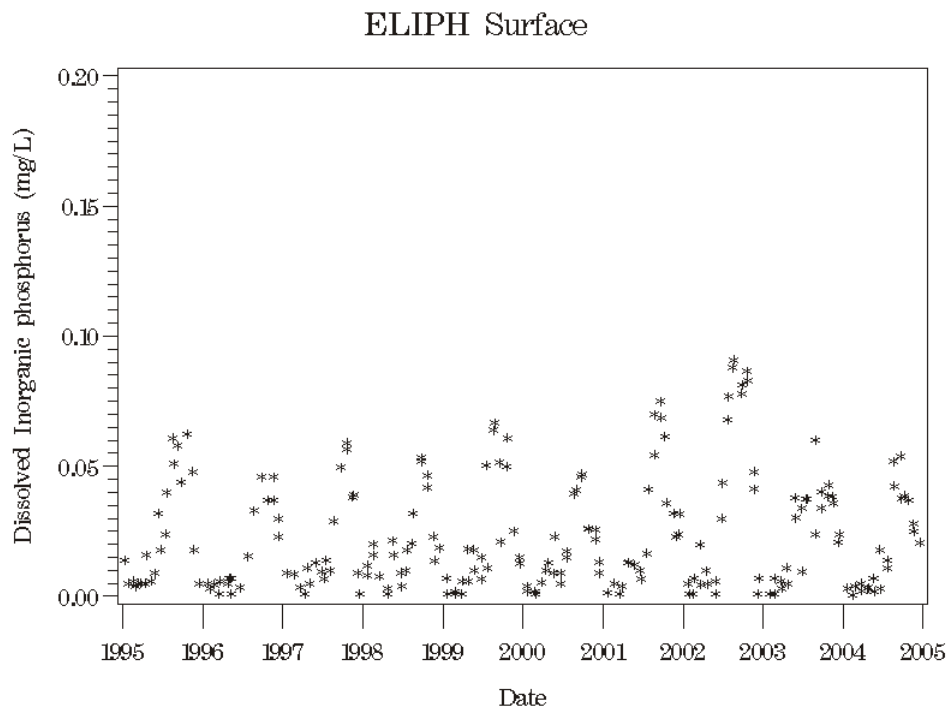


Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

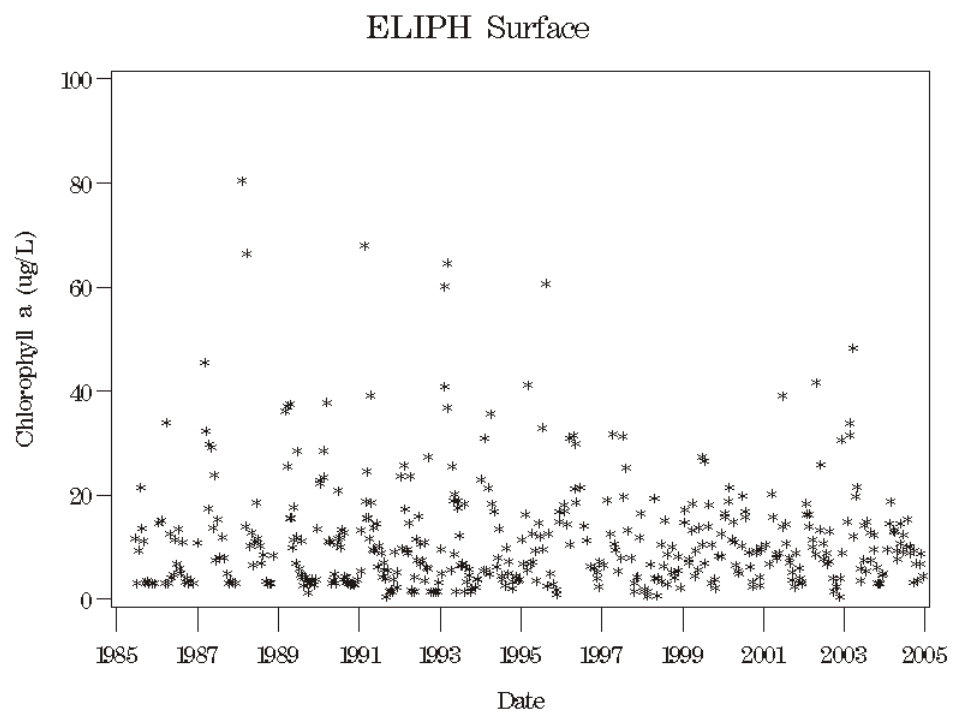


Figure 5. Scatterplot of surface chlorophyll *a* at segment ELIPH during the period 1985 to 2004.

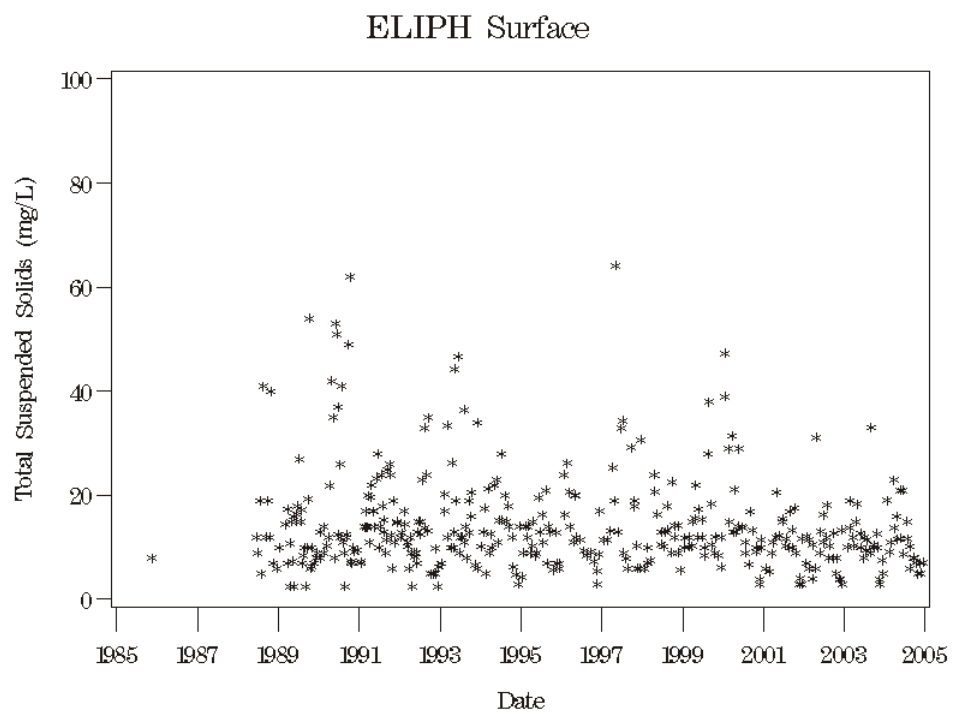


Figure 6. Scatterplot of surface total suspended solids at segment ELIPH during the period 1985 to 2004.

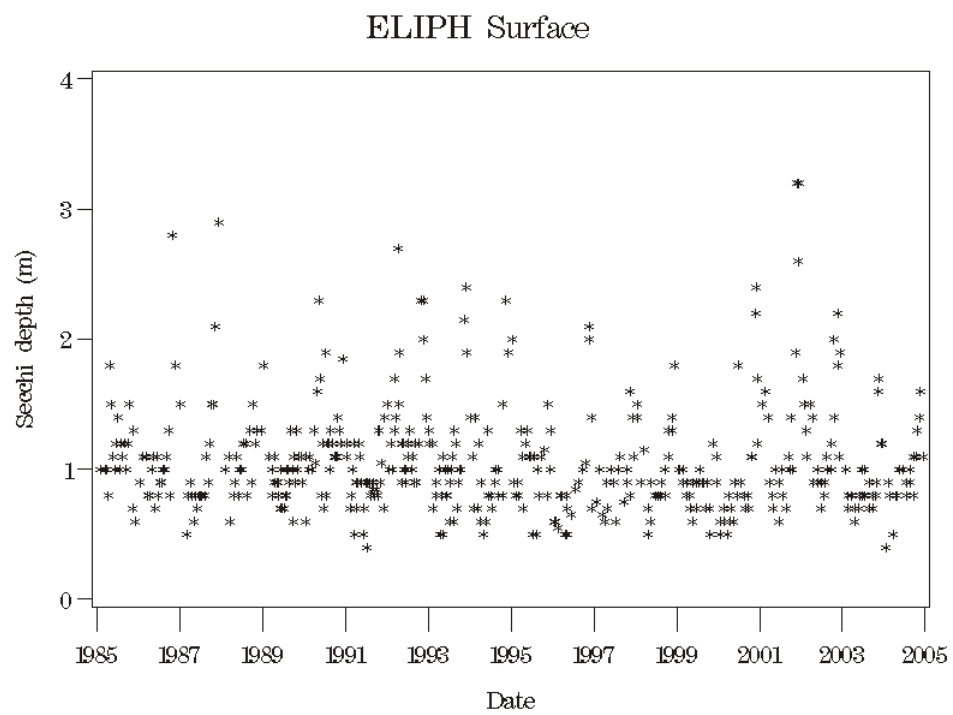


Figure 7. Scatterplot of secchi depth at segment ELIPH during the period 1985 to 2004.

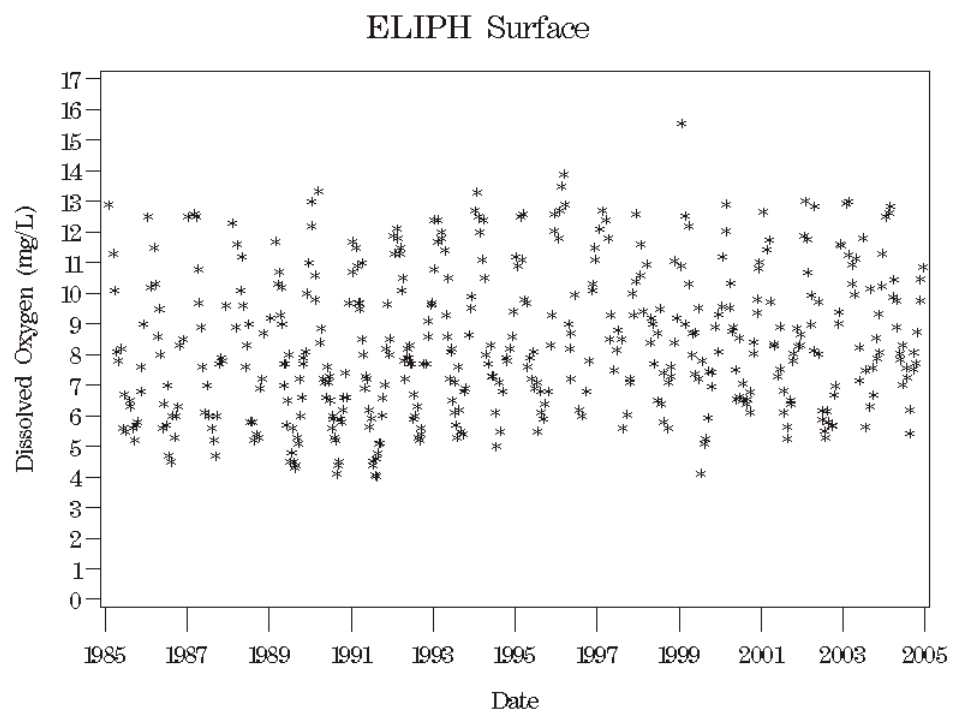


Figure 8. Scatterplot of surface dissolved oxygen at segment ELIPH during the period 1985 to 2004.

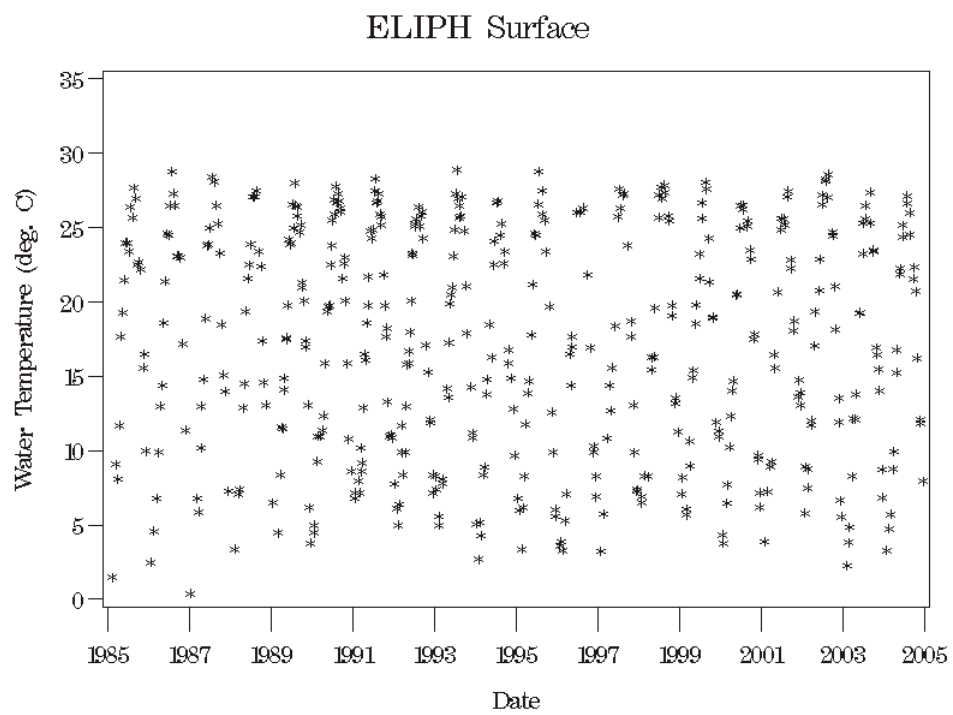


Figure 9. Scatterplot of surface water temperature at segment ELIPH during the period 1985 to 2004.

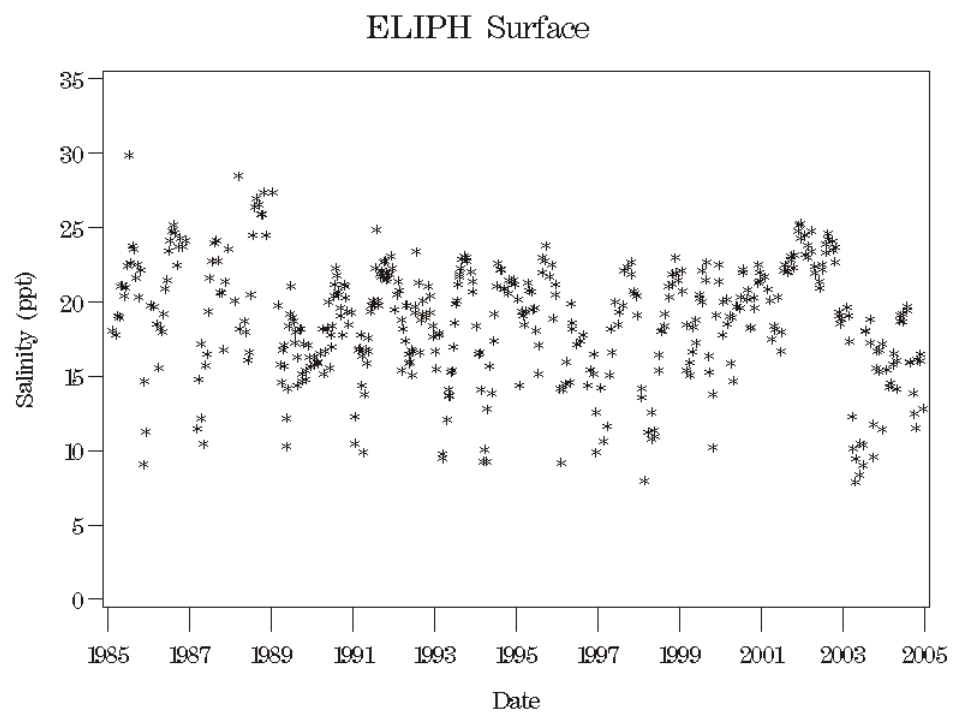
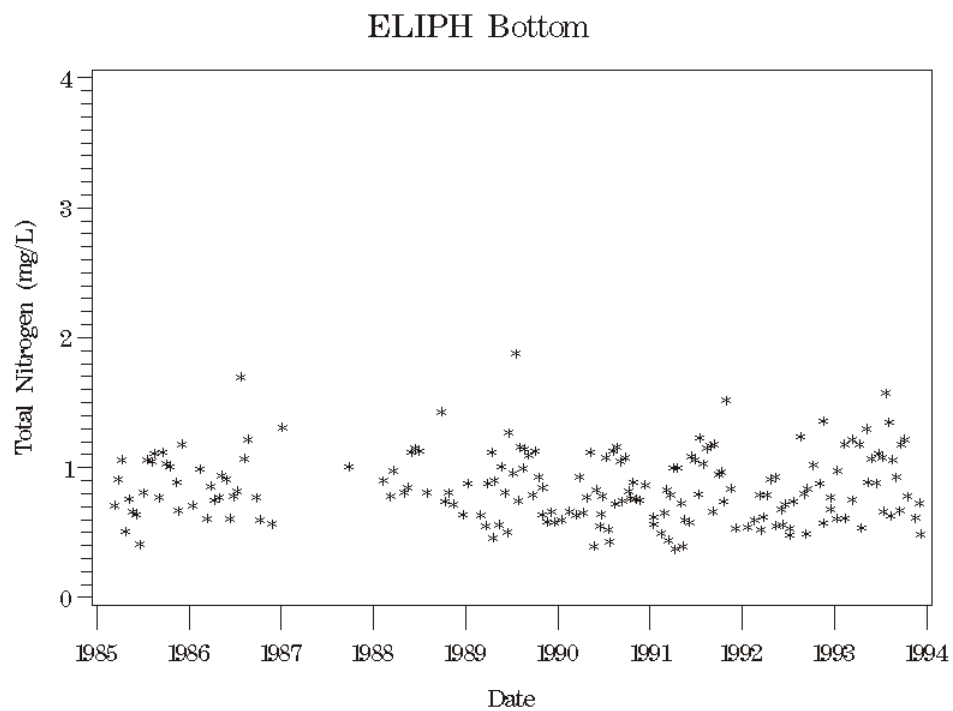


Figure 10. Scatterplot of surface salinity at segment ELIPH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

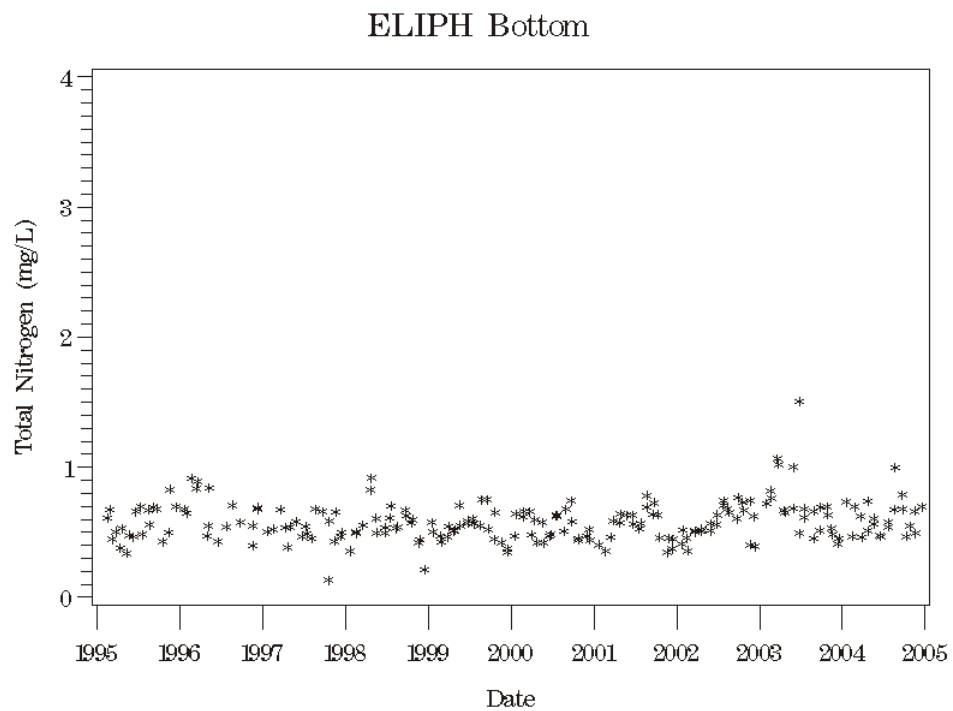
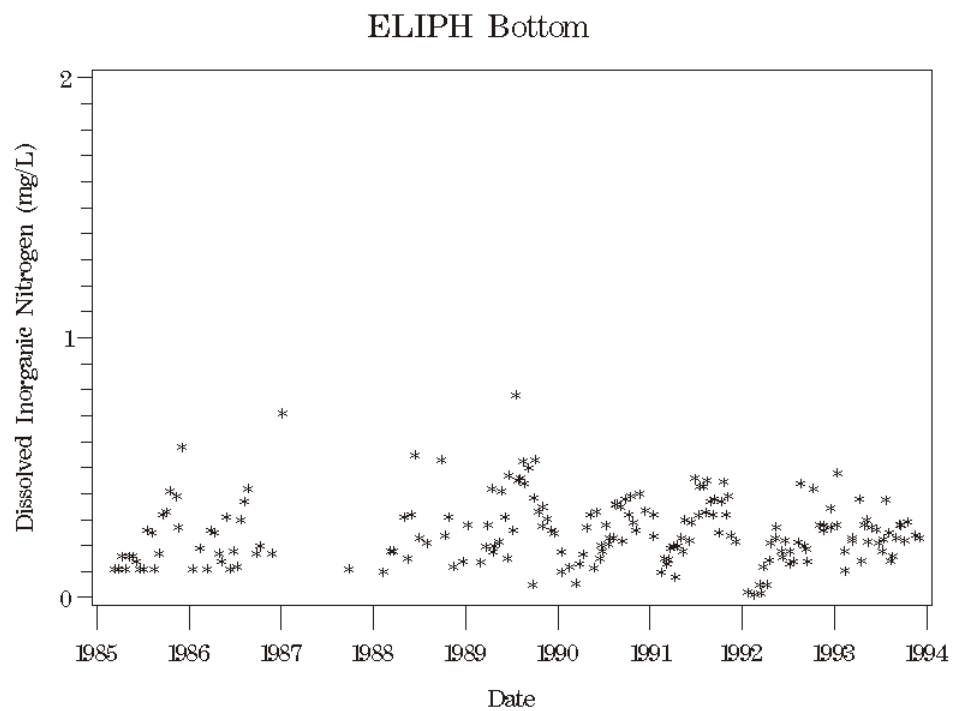


Figure 11. Scatterplots of bottom total nitrogen at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

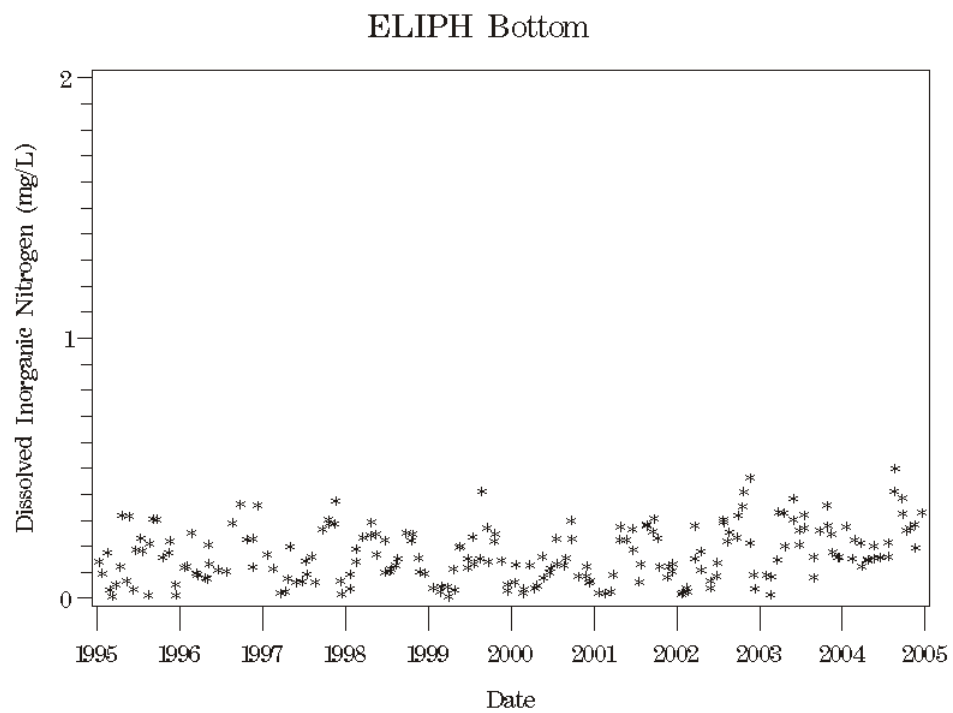
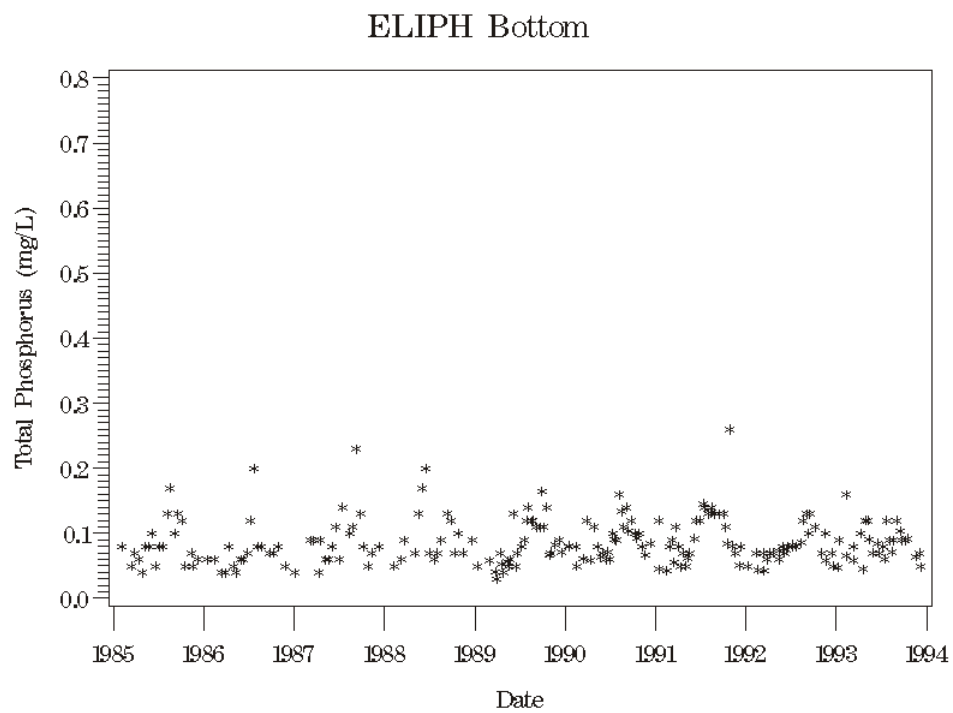


Figure 12. Scatterplots of bottom dissolved inorganic nitrogen at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

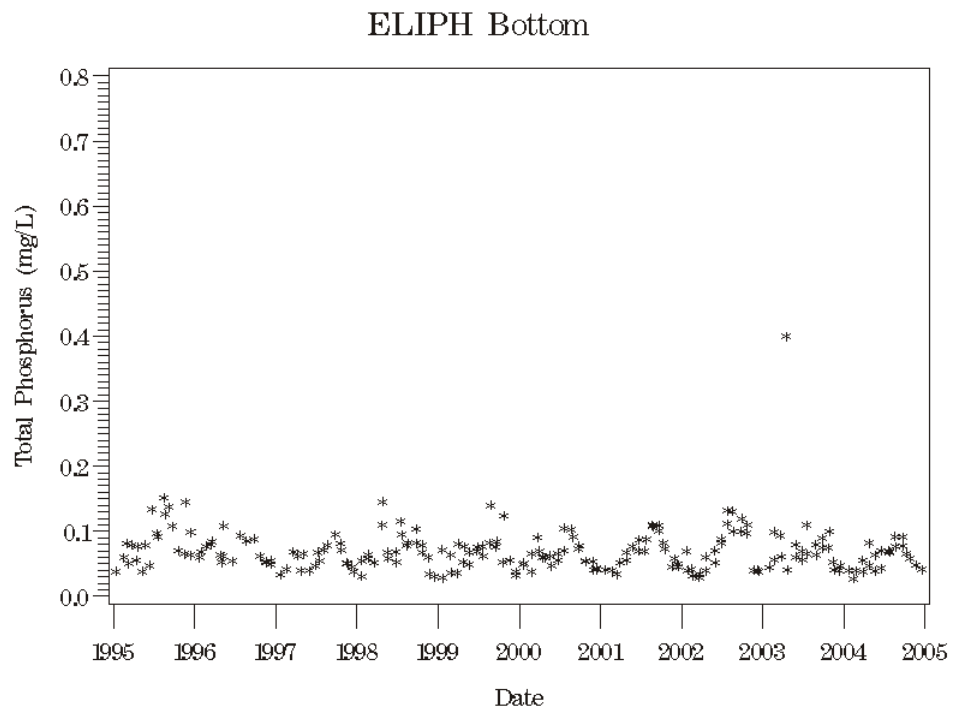
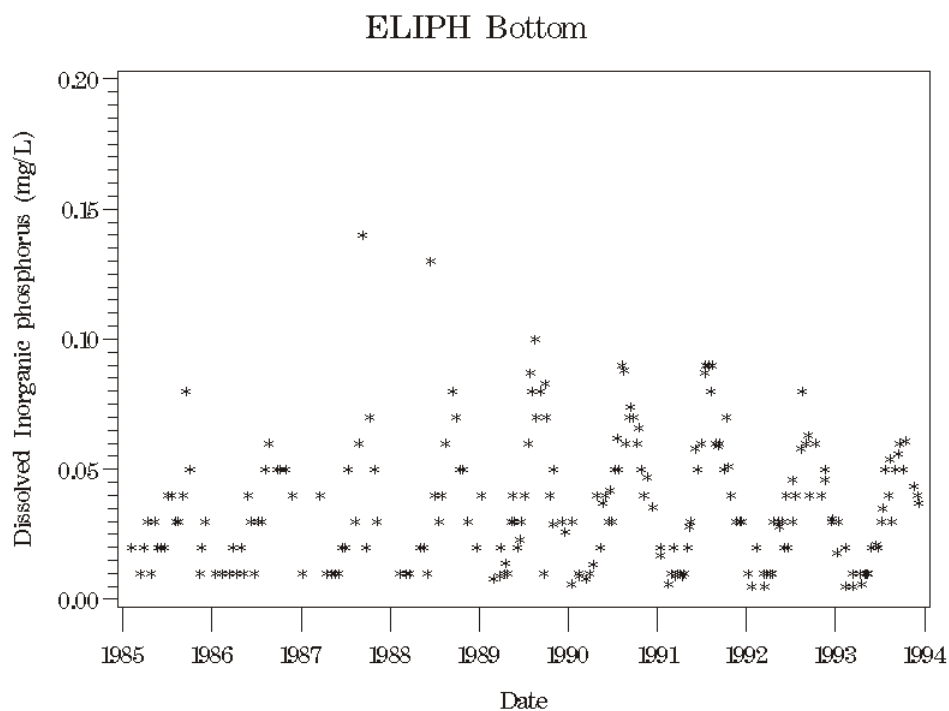


Figure 13. Scatterplots of bottom total phosphorus at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

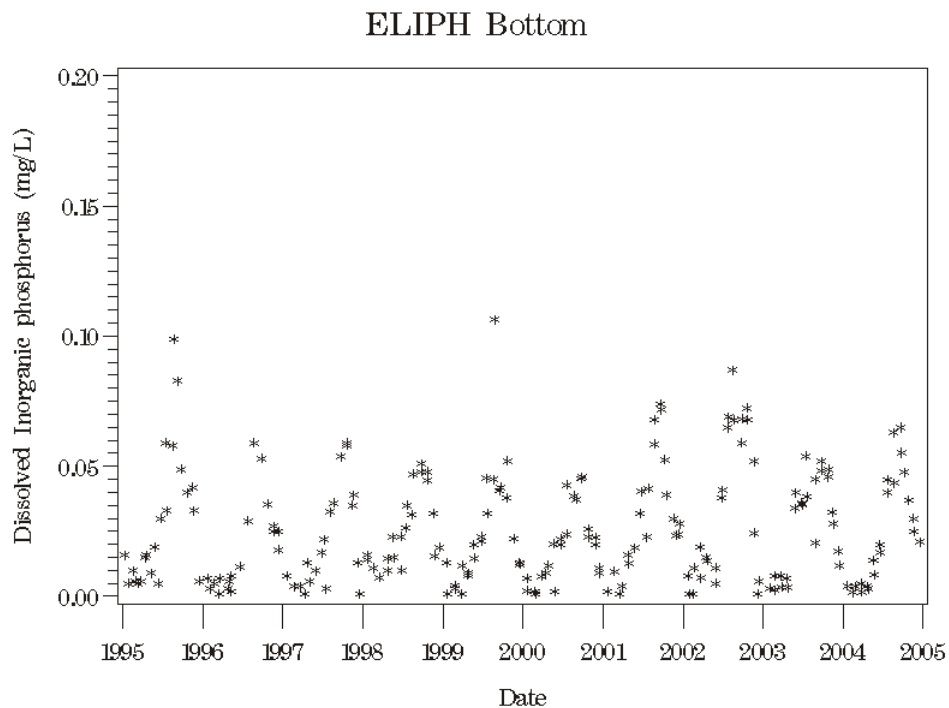


Figure 14. Scatterplots of bottom dissolved inorganic phosphorus at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

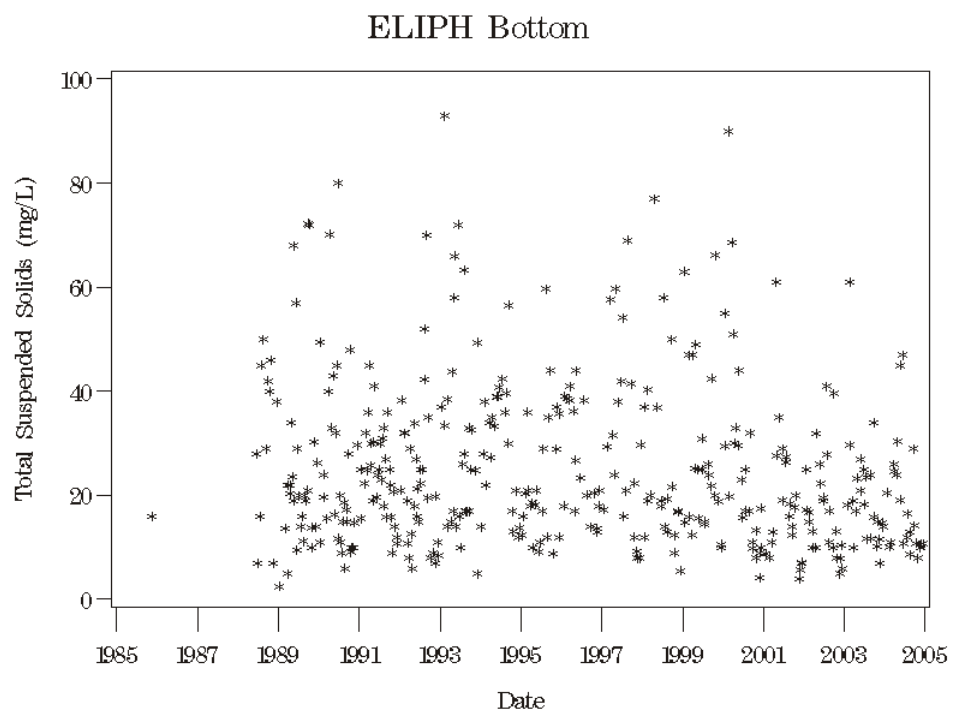


Figure 15. Scatterplot of bottom total suspended solids at segment ELIPH during the period 1985 to 2004.

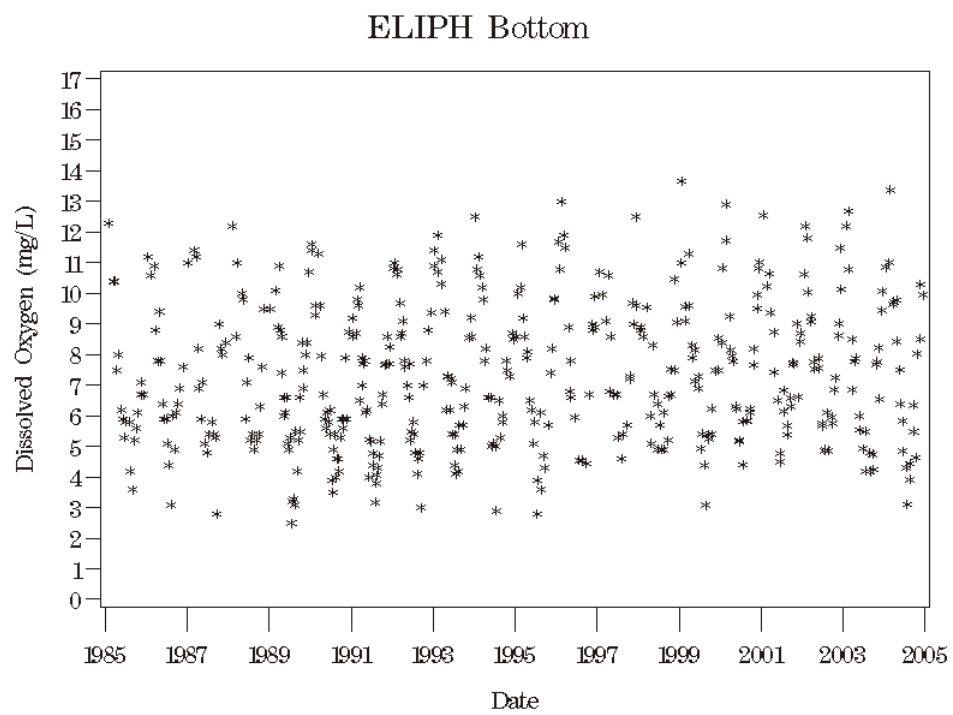


Figure 16. Scatterplot of bottom dissolved oxygen at segment ELIPH during the period 1985 to 2004.

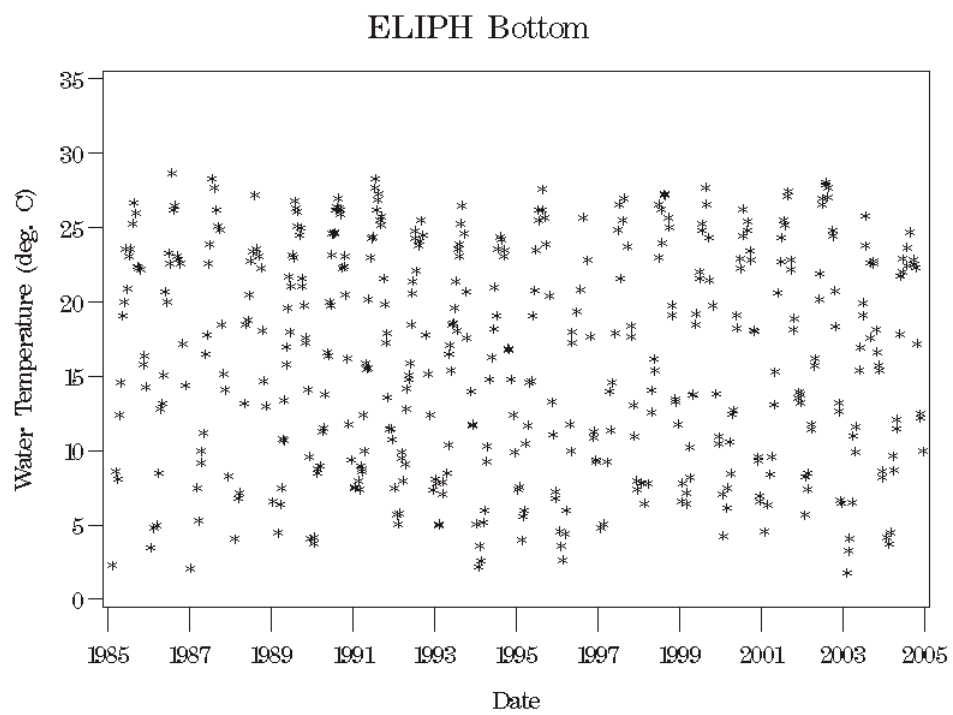


Figure 17. Scatterplot of bottom water temperature at segment ELIPH during the period 1985 to 2004.

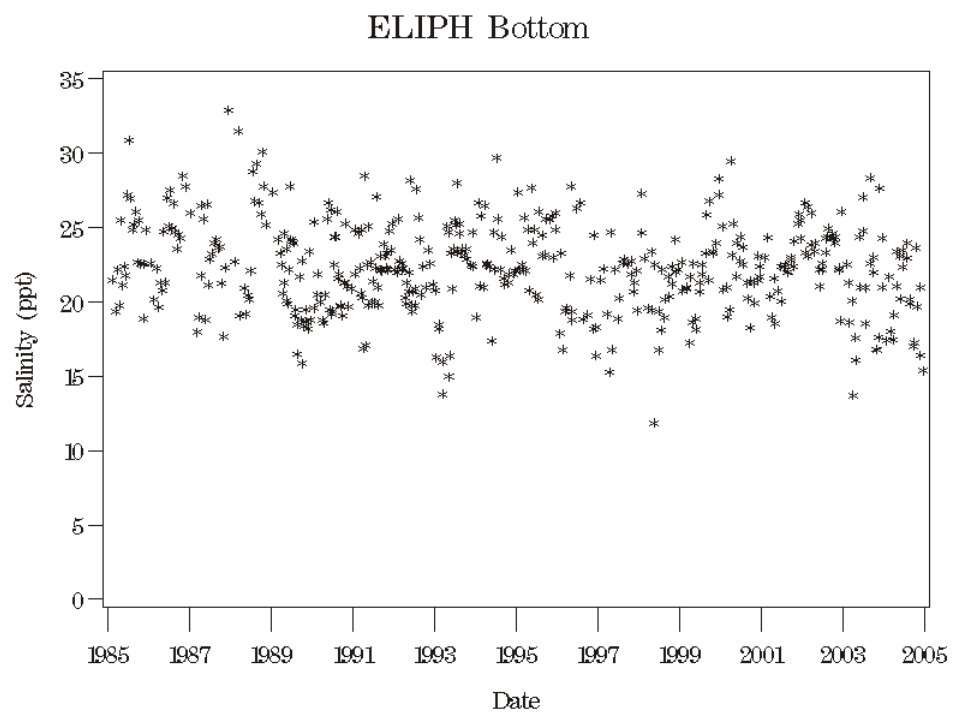


Figure 18. Scatterplot of bottom salinity at segment ELIPH during the period 1985 to 2004.

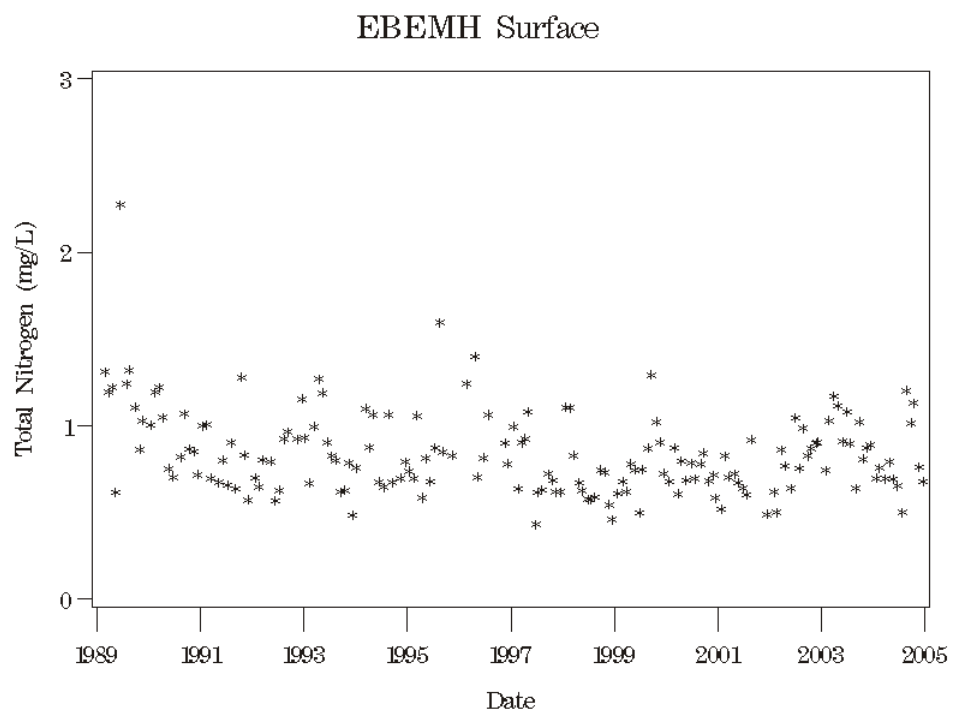


Figure 19. Scatterplots of surface total nitrogen at segment ELIMH during the period of 1989 to 2004.

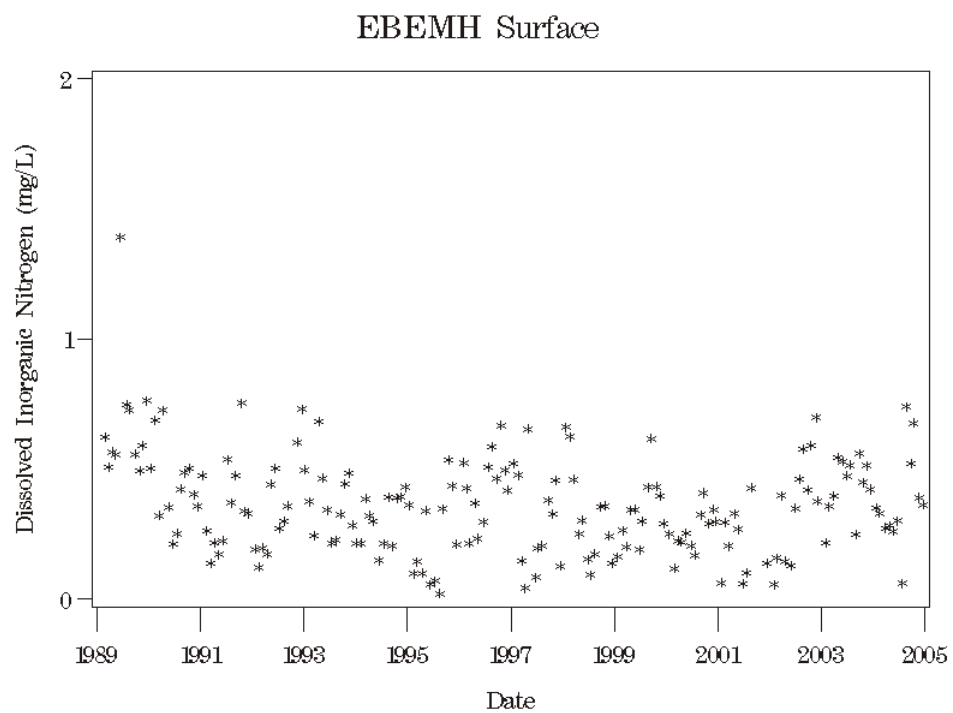


Figure 20. Scatterplots of surface dissolved inorganic nitrogen at segment ELIMH during the period of 1989 to 2004.

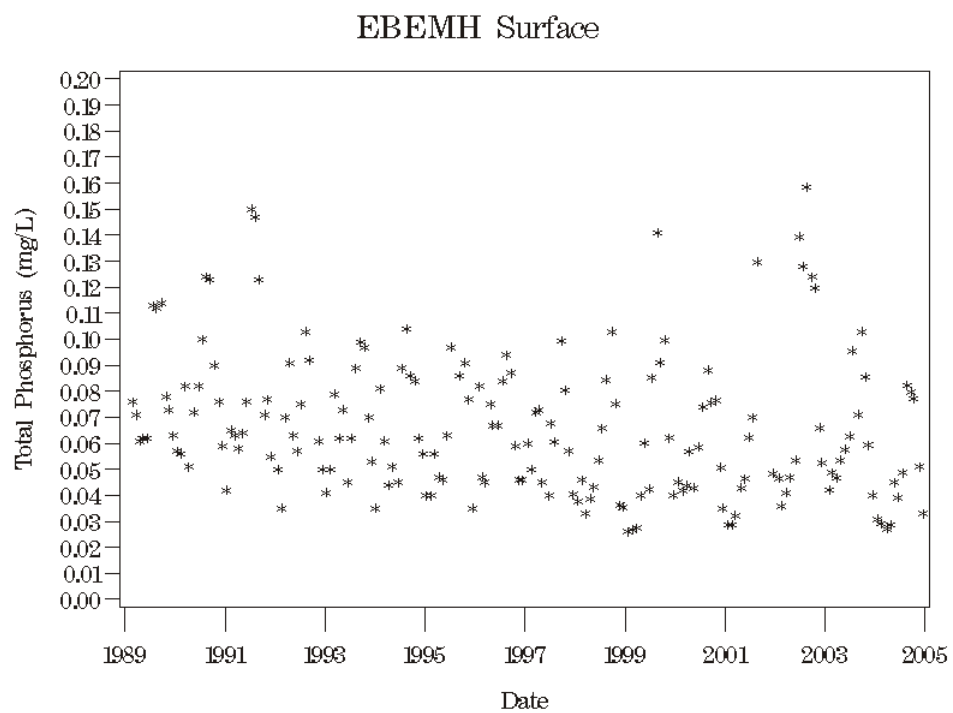


Figure 21. Scatterplots of surface total phosphorus at segment ELIMH during the period of 1989 to 2004.

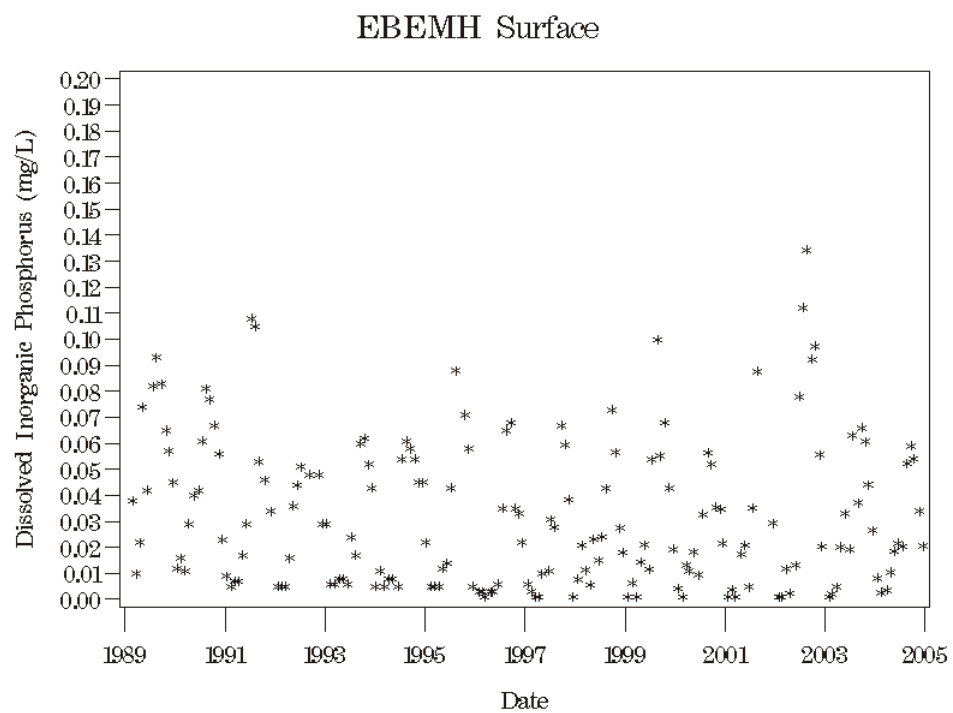


Figure 22. Scatterplots of surface dissolved inorganic phosphorus at segment ELIMH during the period of 1989 to 2004.

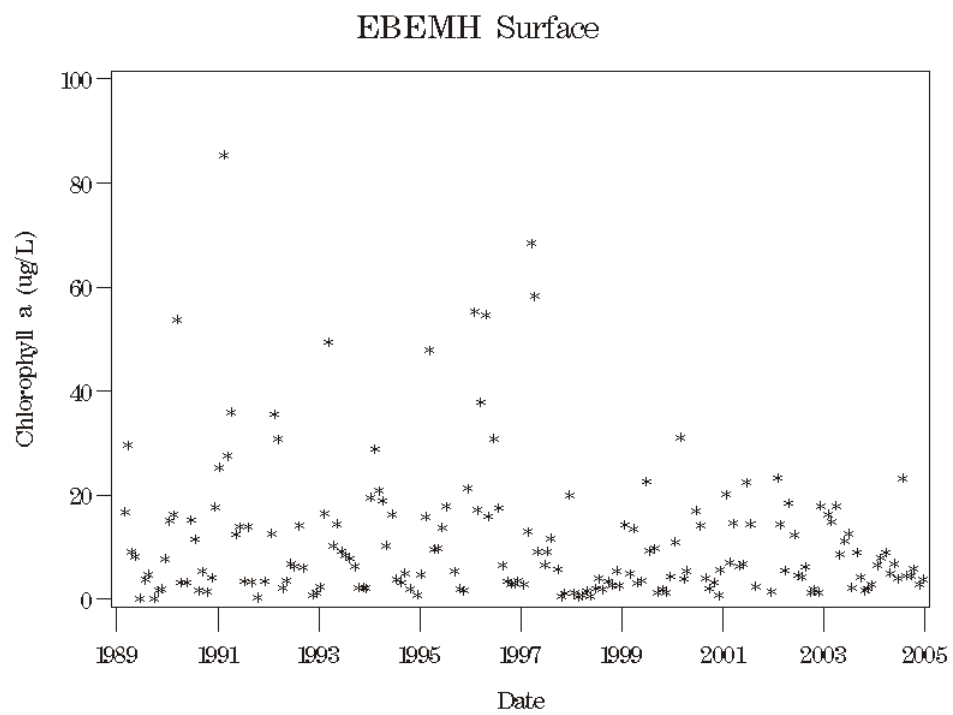


Figure 23. Scatterplot of surface chlorophyll *a* at segment ELIMH during the period 1985 to 2004.

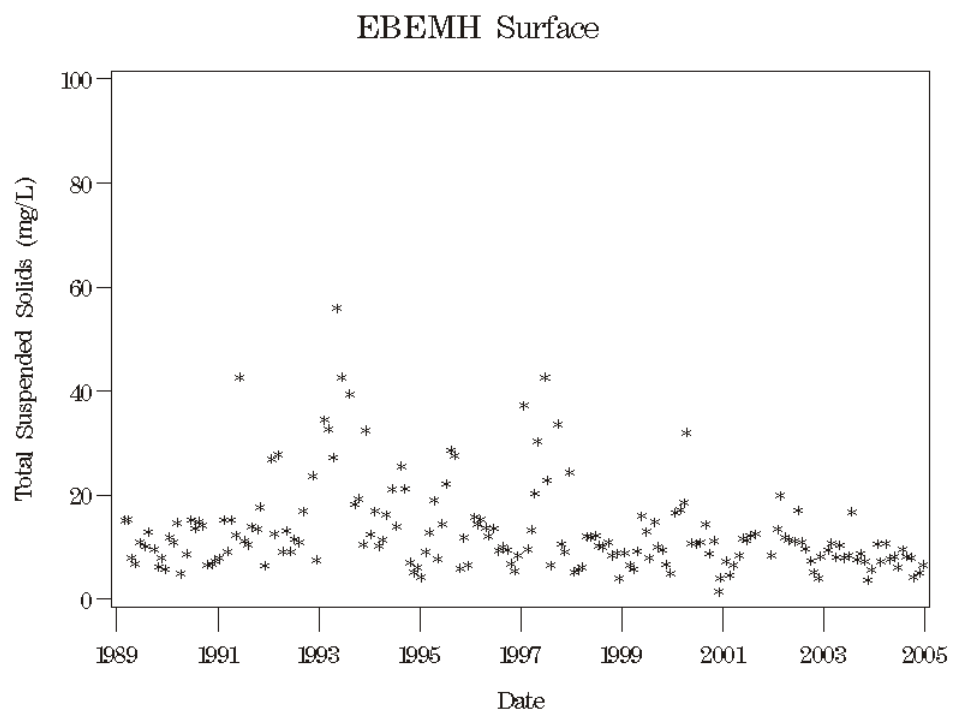


Figure 24. Scatterplot of surface total suspended solids at segment ELIMH during the period 1985 to 2004.

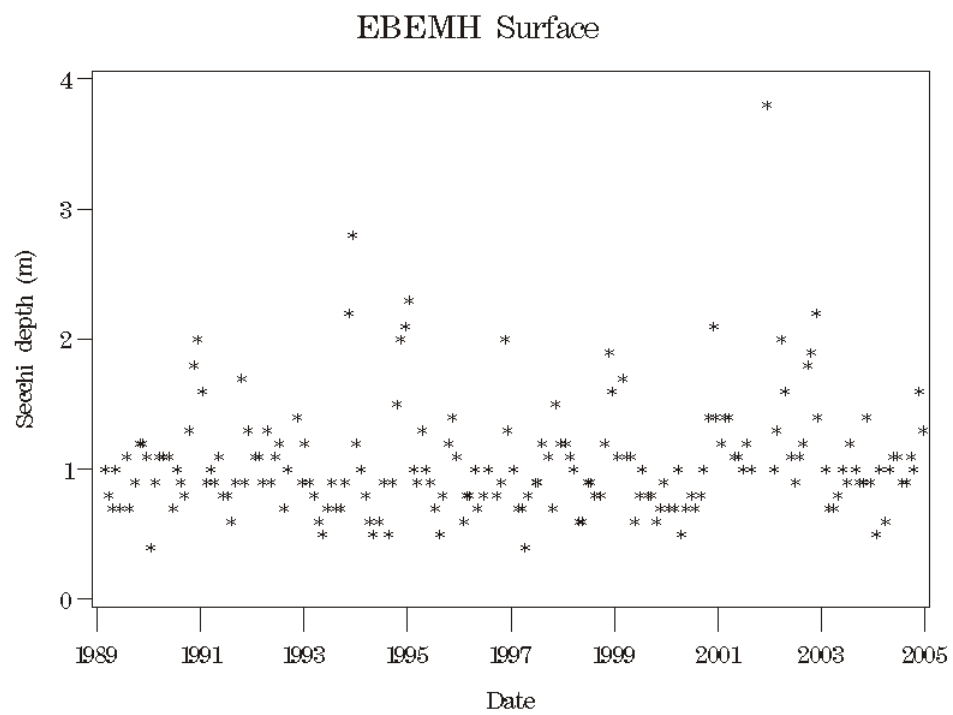


Figure 25. Scatterplot of secchi depth at segment ELIMH during the period 1989 through 2004.

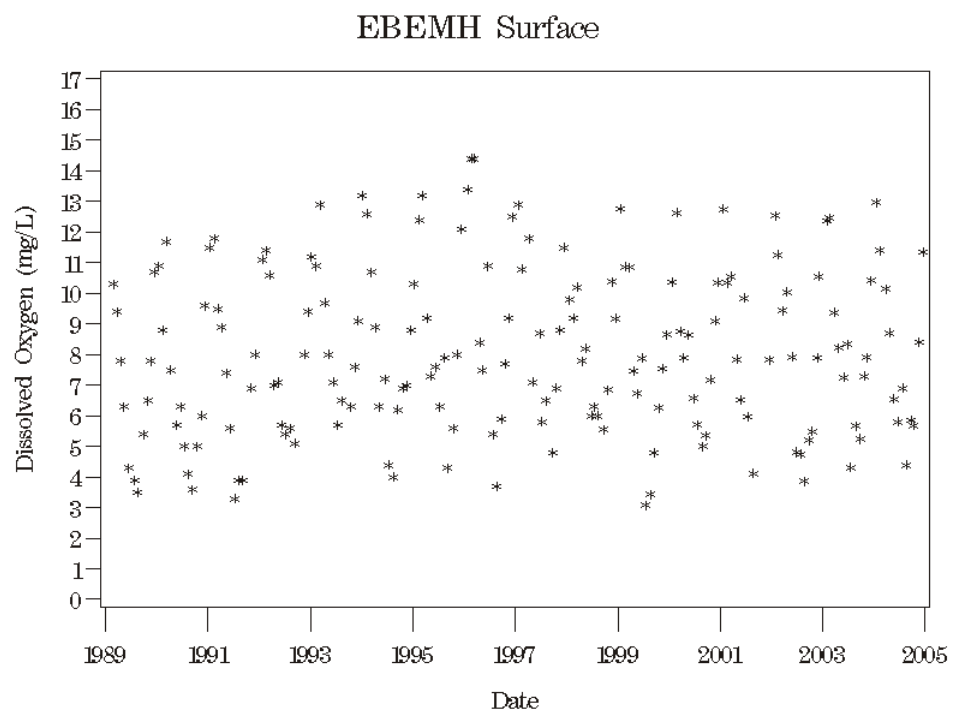


Figure 26. Scatterplot of surface dissolved oxygen at segment ELIMH during the period 1985 to 2004.

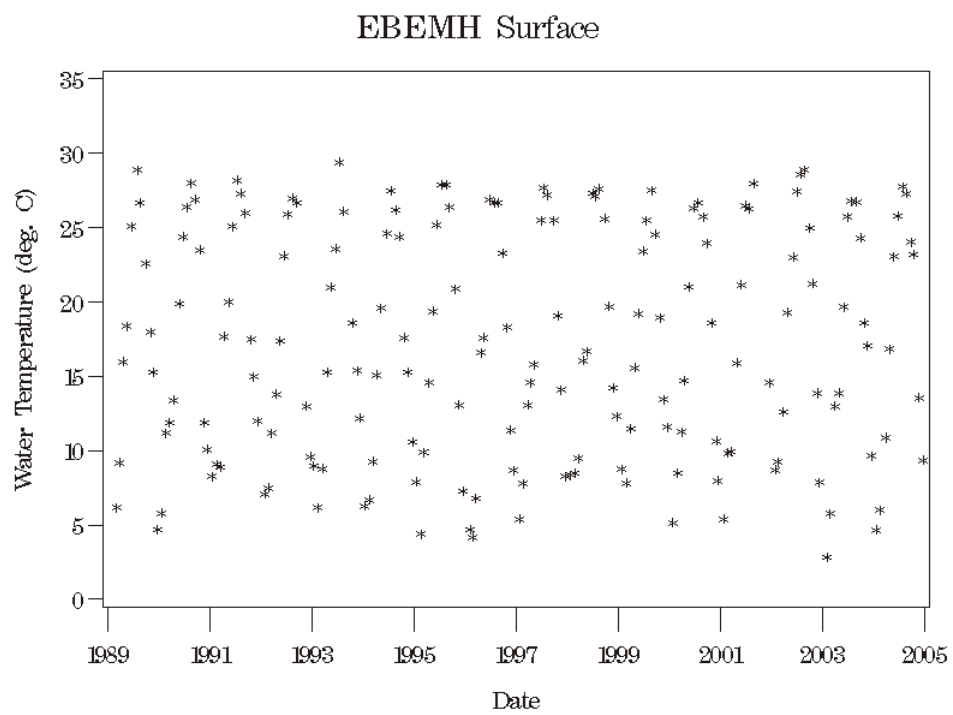


Figure 27. Scatterplot of surface water temperature at segment ELIMH during the period 1985 to 2004.

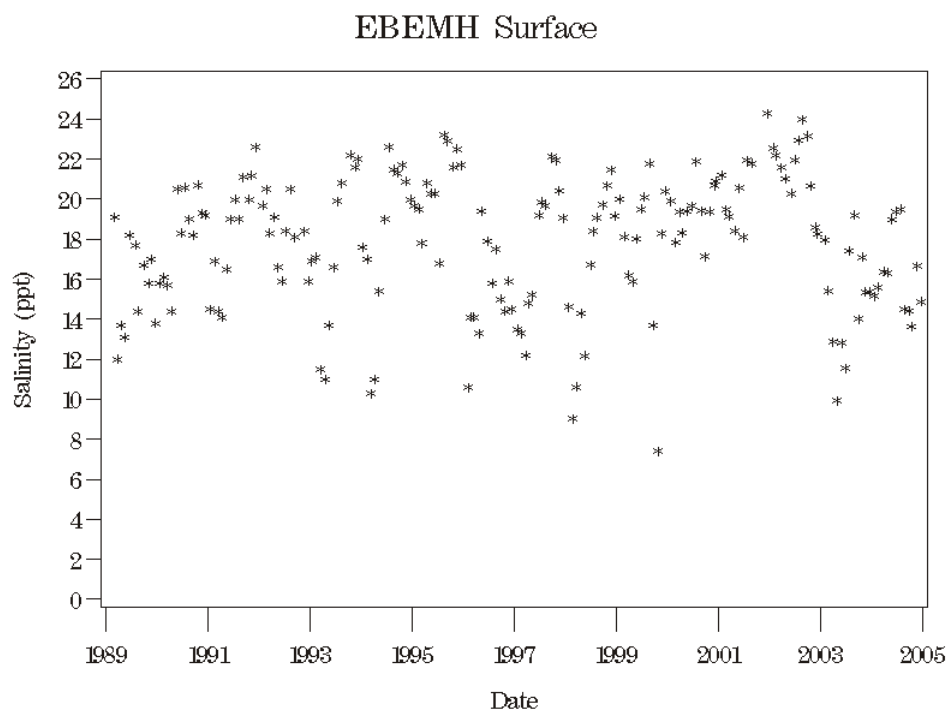


Figure 28. Scatterplot of surface salinity at segment ELIMH during the period 1985 to 2004.

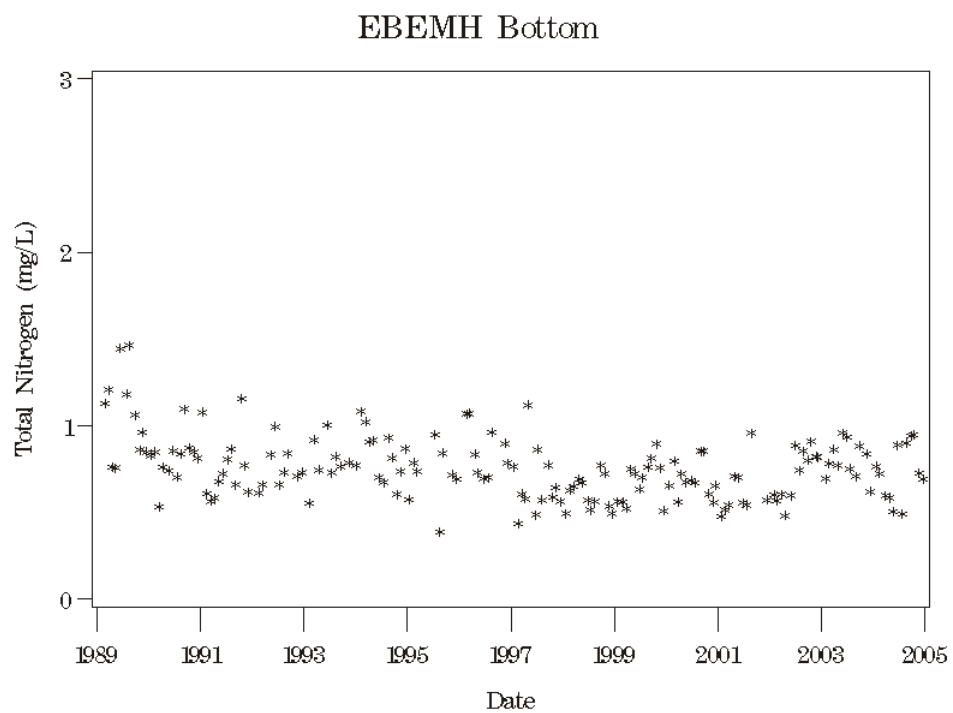


Figure 29. Scatterplots of bottom total nitrogen at segment ELIMH during the period of 1989 to 2004.

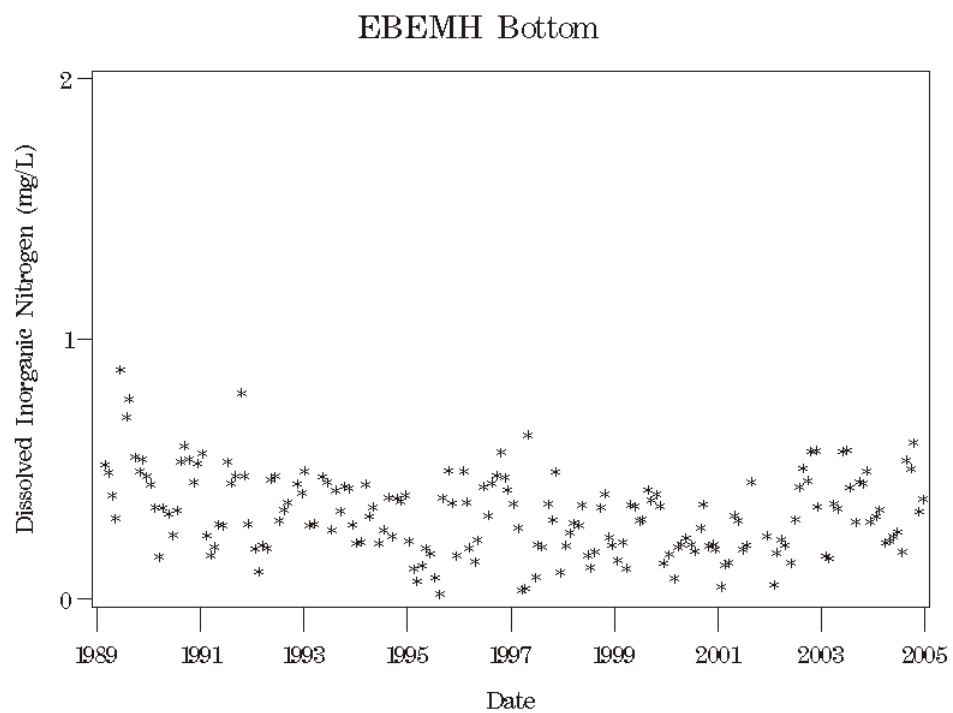


Figure 30. Scatterplots of bottom dissolved inorganic nitrogen at segment ELIMH during the period of 1989 to 2004.

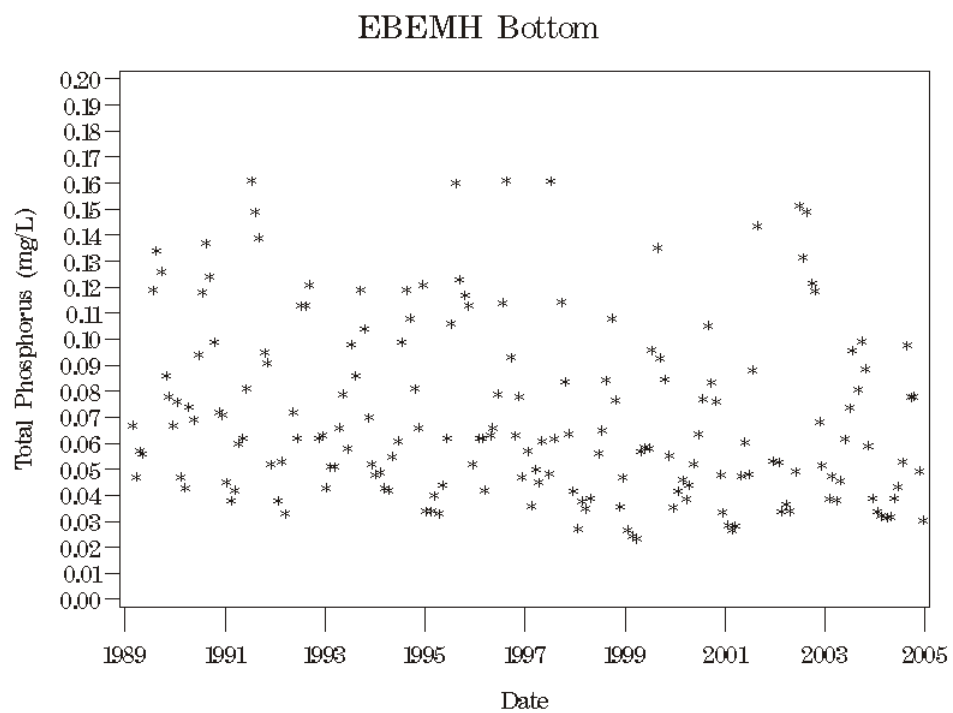


Figure 31. Scatterplots of bottom total phosphorus at segment ELIMH during the period of 1989 to 2004.

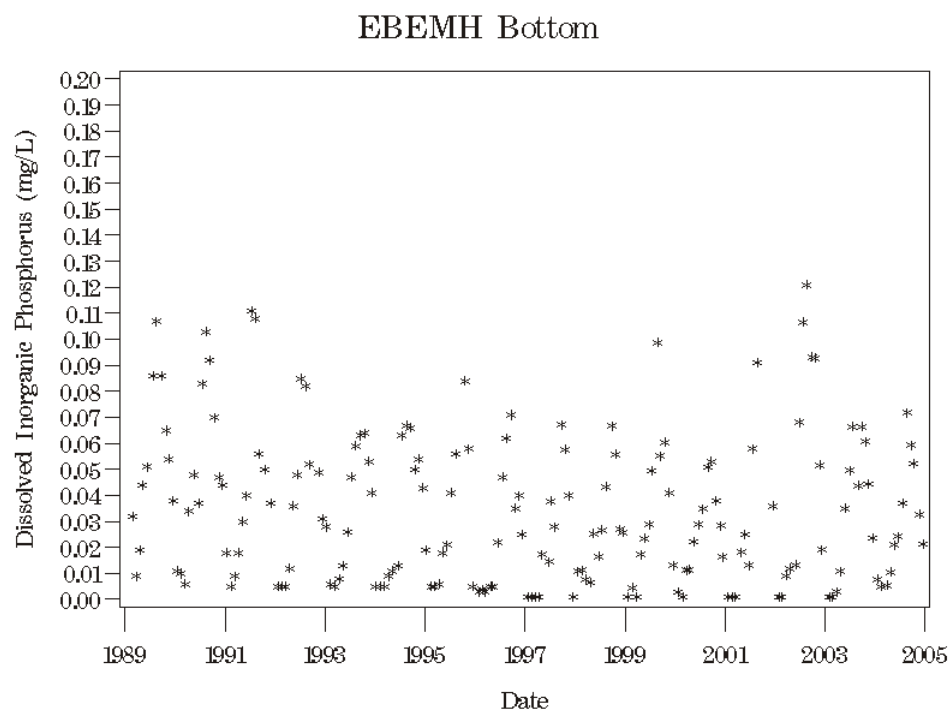


Figure 32. Scatterplots of bottom dissolved inorganic phosphorus at segment ELIMH during the period of 1989 to 2004.

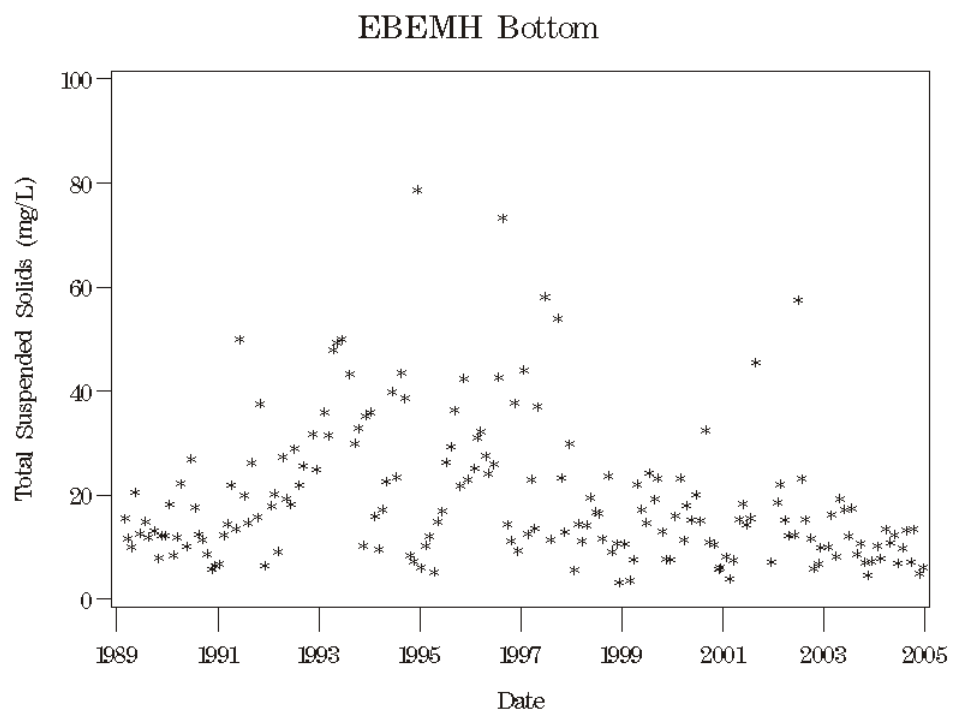


Figure 33. Scatterplot of bottom total suspended solids at segment ELIMH during the period 1985 to 2004.

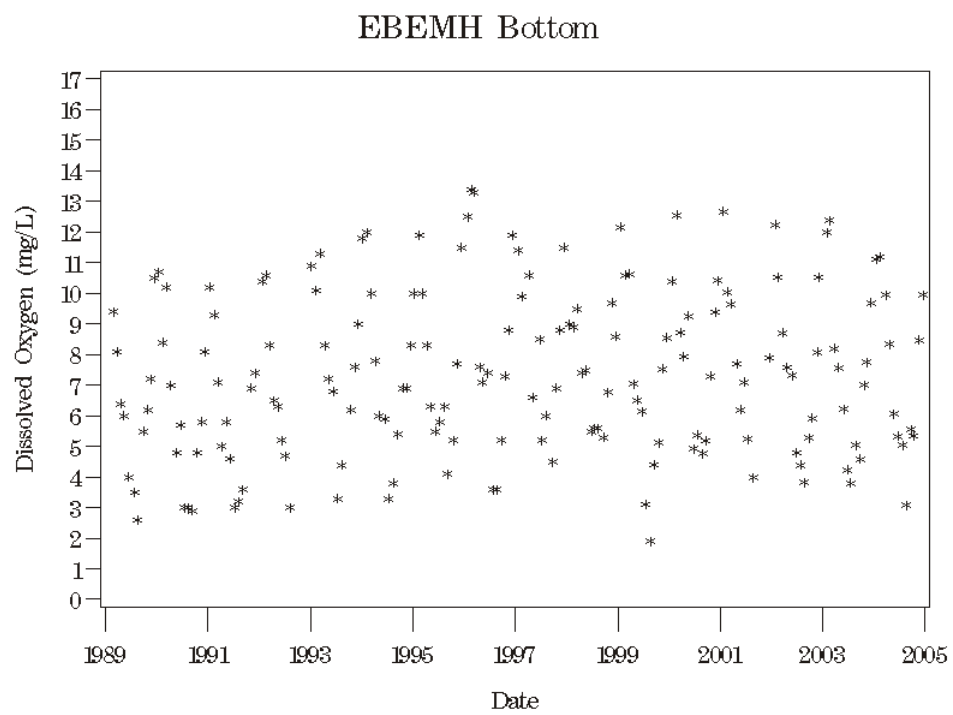


Figure 34. Scatterplot of bottom dissolved oxygen at segment ELIMH during the period 1985 to 2004.

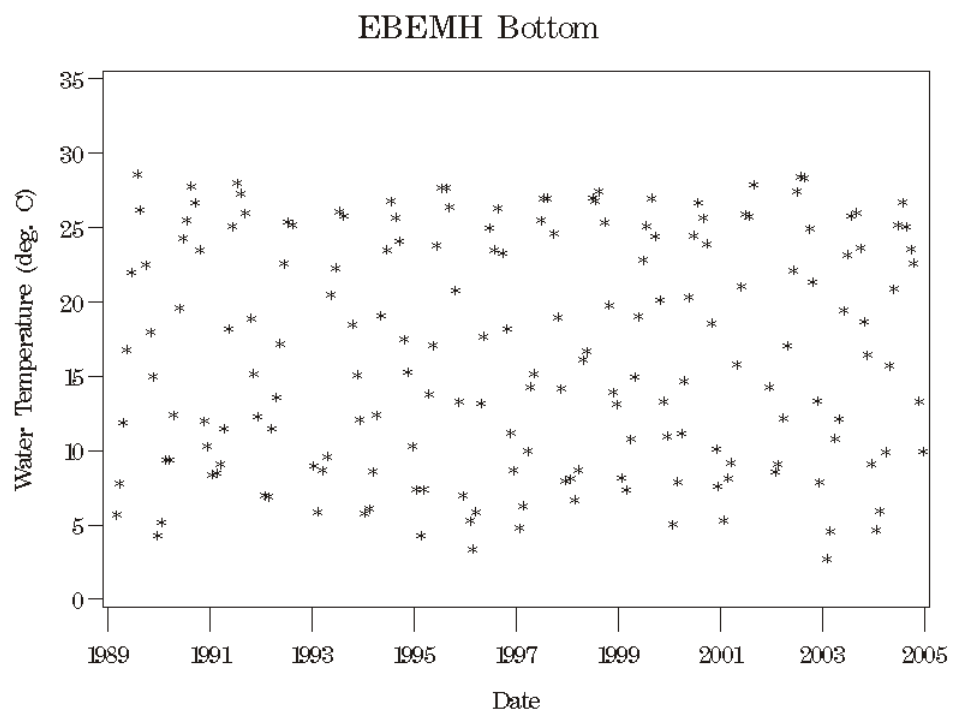


Figure 35. Scatterplot of bottom water temperature at segment ELIMH during the period 1985 to 2004.

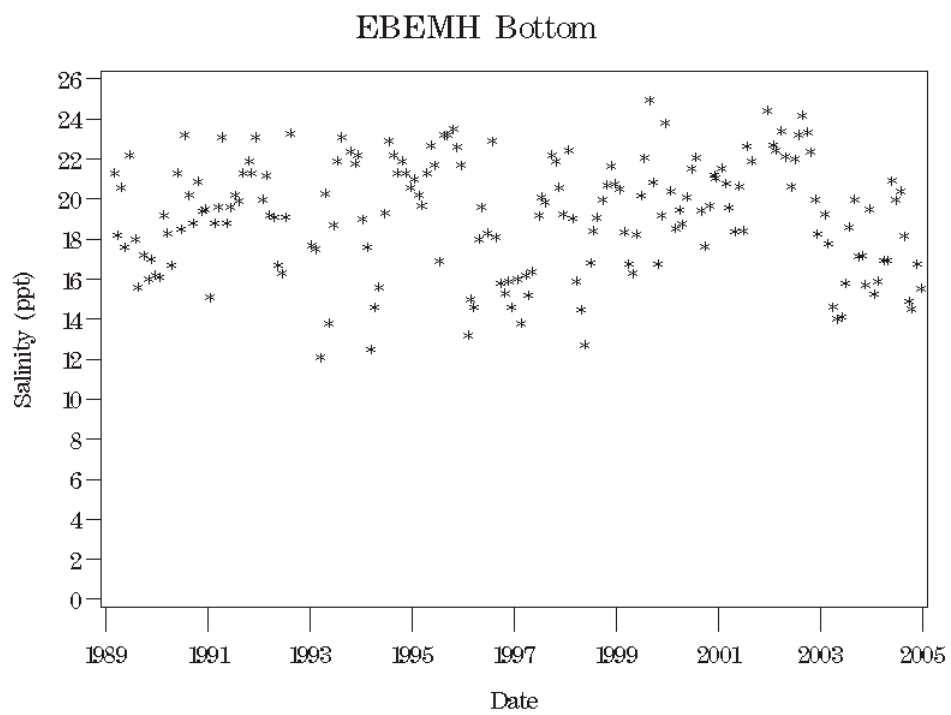


Figure 36. Scatterplot of bottom salinity at segment ELIMH during the period 1985 to 2004.

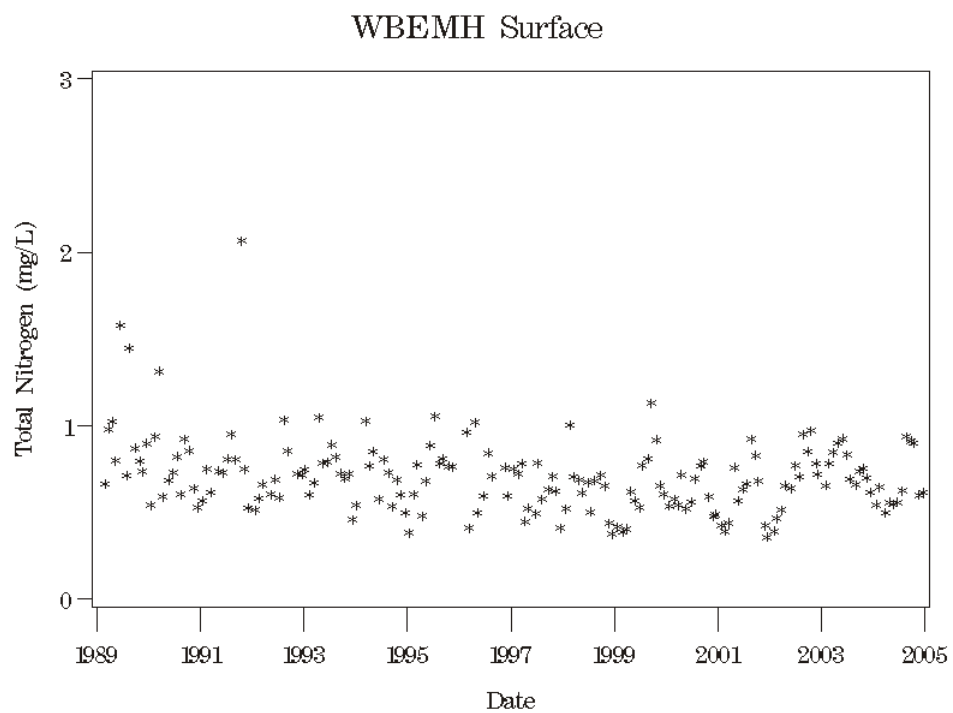


Figure 37. Scatterplots of surface total nitrogen at segment WBEMH during the period of 1989 to 2004.

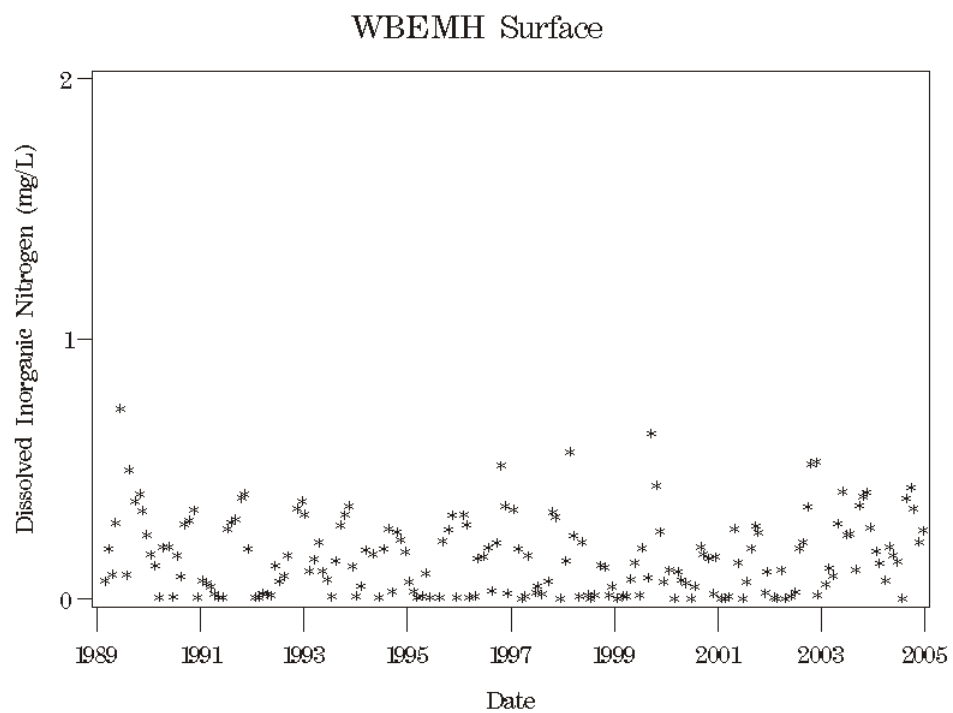


Figure 38. Scatterplots of surface dissolved inorganic nitrogen at segment WBEMH during the period of 1989 to 2004.

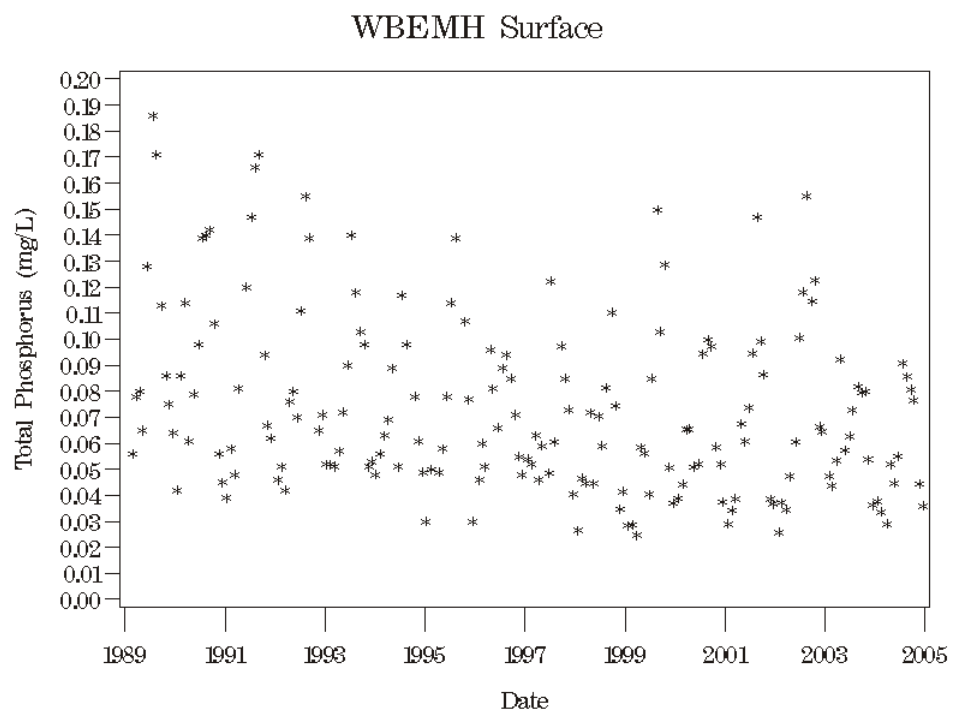


Figure 39. Scatterplots of surface total phosphorus at segment WBEMH during the period of 1989 to 2004.

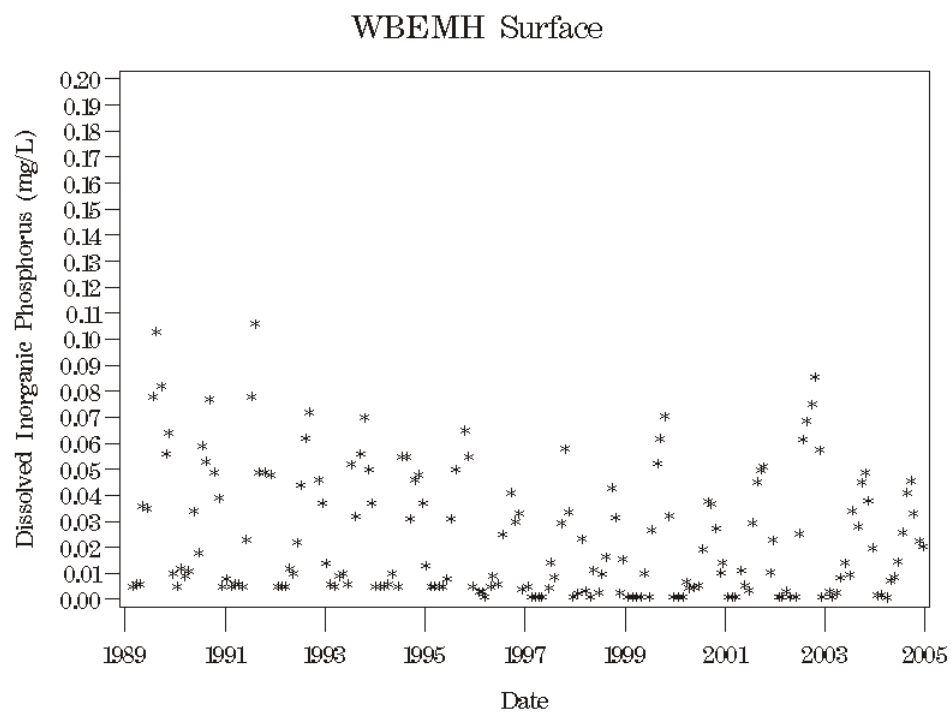


Figure 40. Scatterplots of surface dissolved inorganic phosphorus at segment WBEMH during the period of 1989 to 2004.

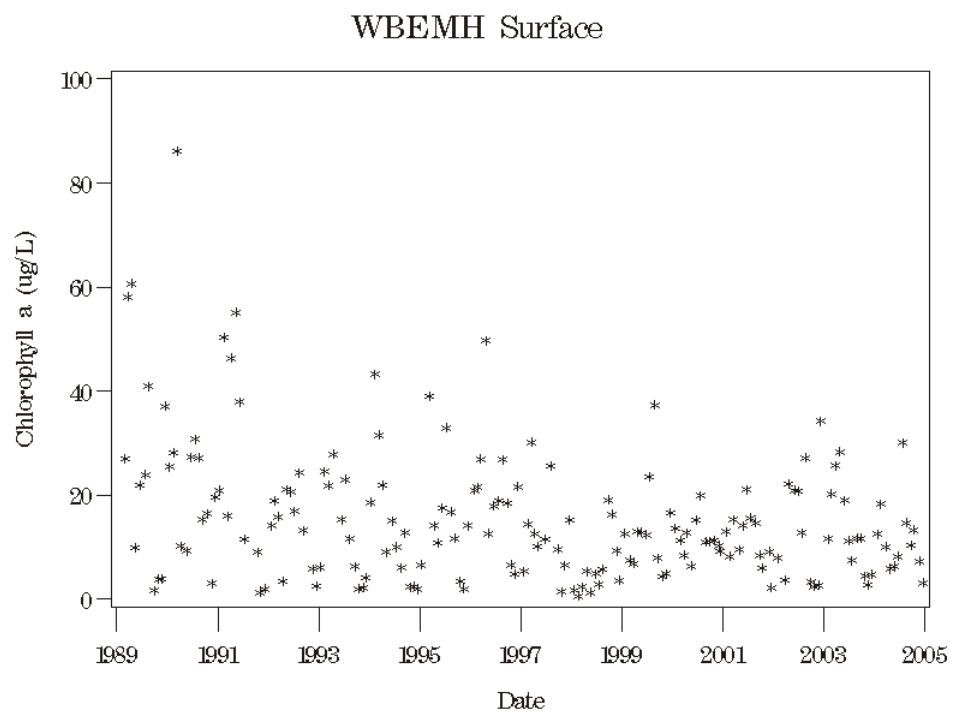


Figure 41. Scatterplot of surface chlorophyll *a* at segment WBEMH during the period 1985 to 2004.

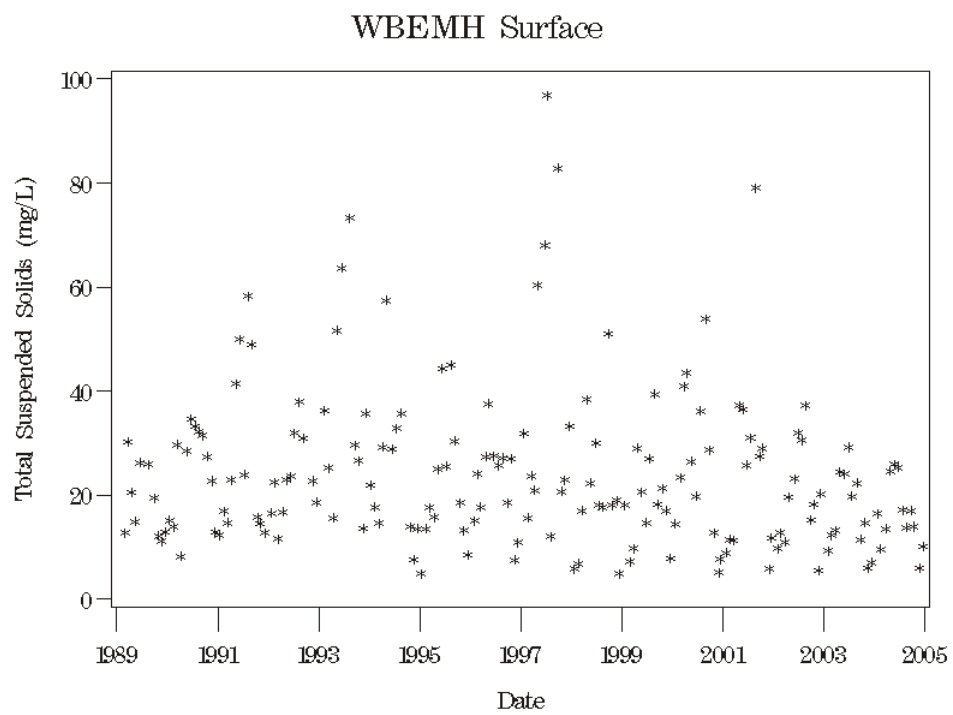


Figure 42. Scatterplot of surface total suspended solids at segment WBEMH during the period 1985 to 2004.

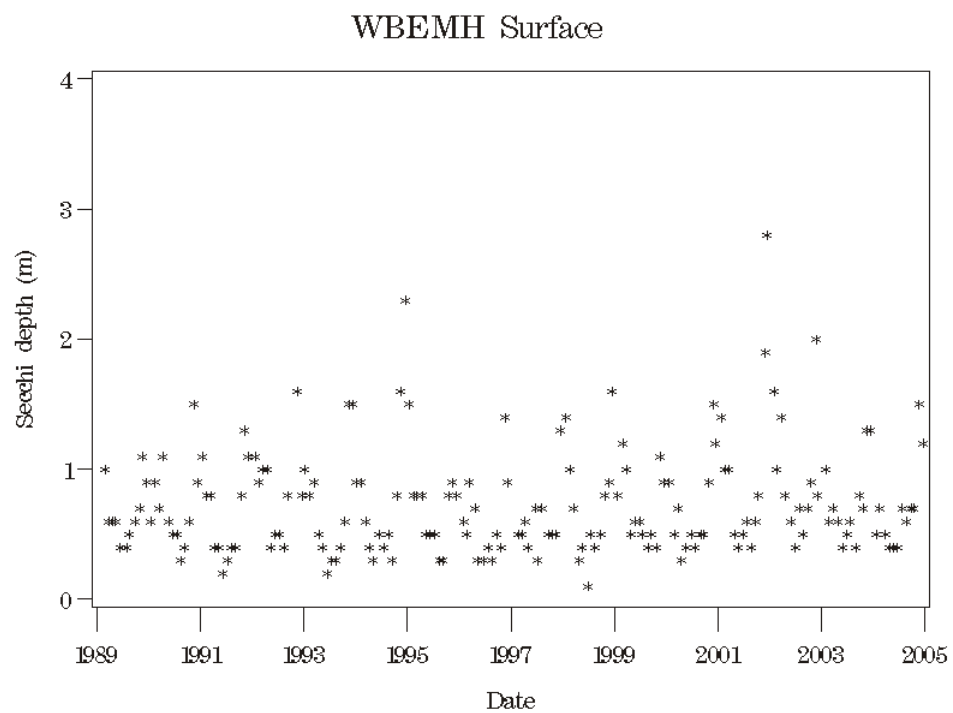


Figure 43. Scatterplot of secchi depth at segment WBEMH during the period 1989 through 2004.

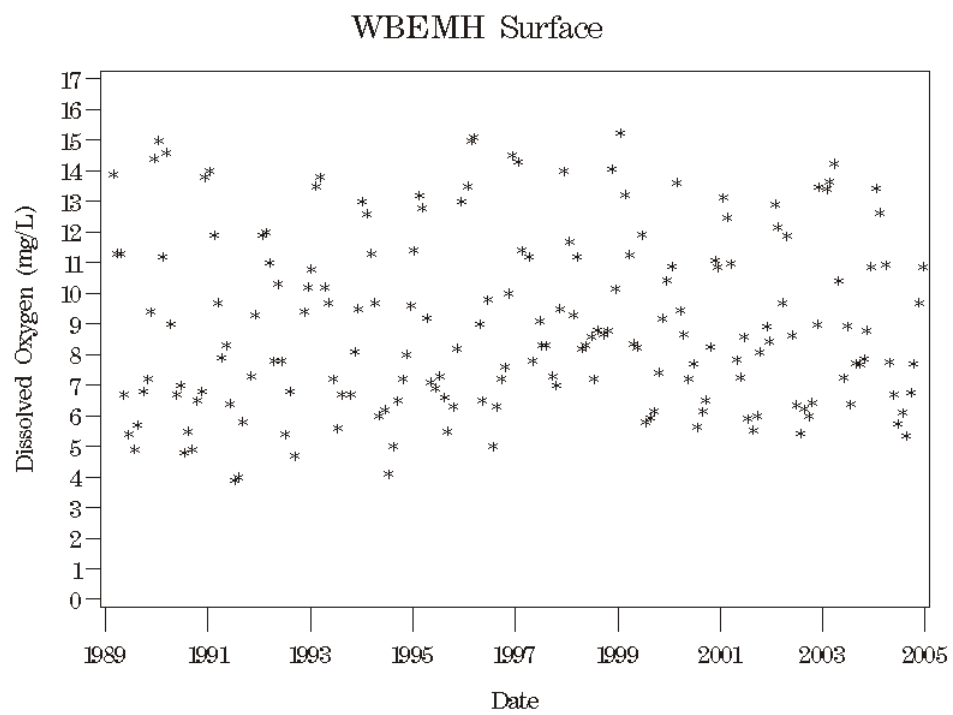


Figure 44. Scatterplot of surface dissolved oxygen at segment WBEMH during the period 1985 to 2004.

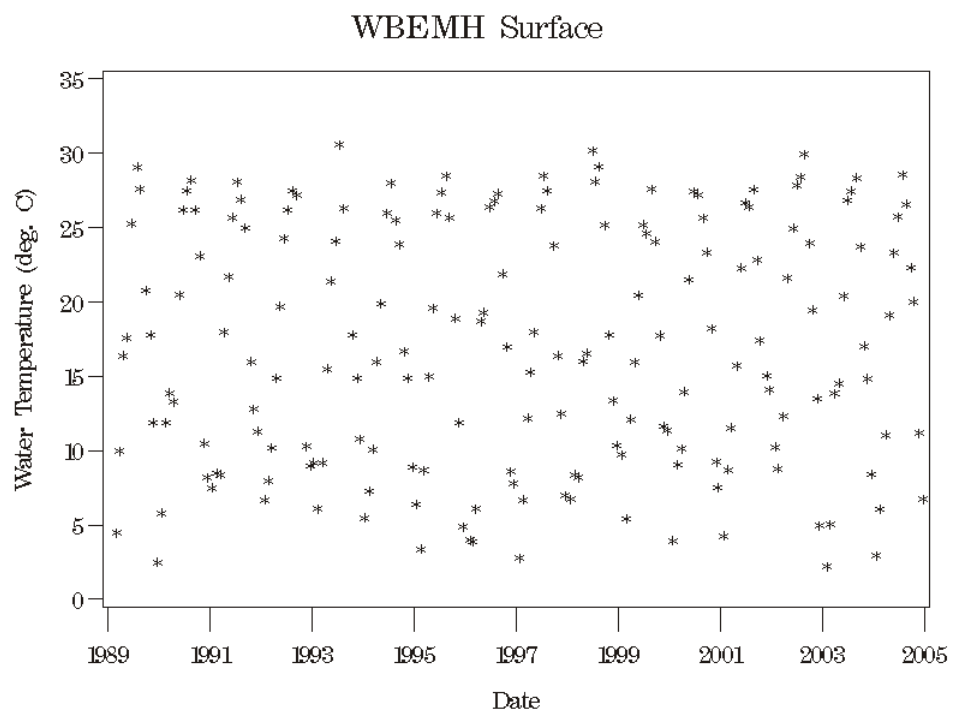


Figure 45. Scatterplot of surface water temperature at segment WBEMH during the period 1985 to 2004.

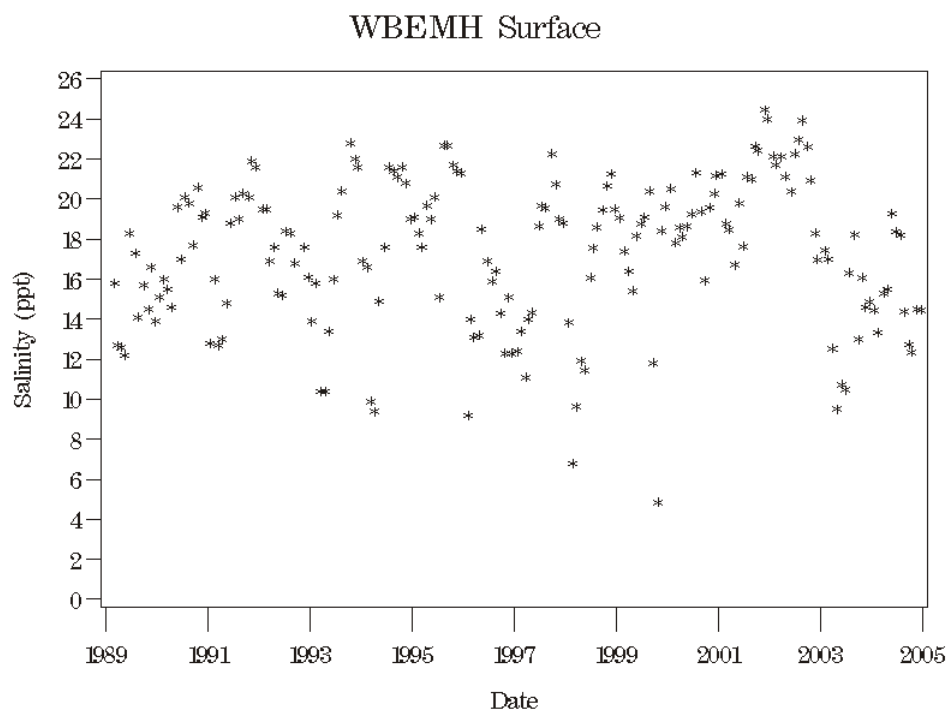


Figure 46. Scatterplot of surface salinity at segment WBEMH during the period 1985 to 2004.

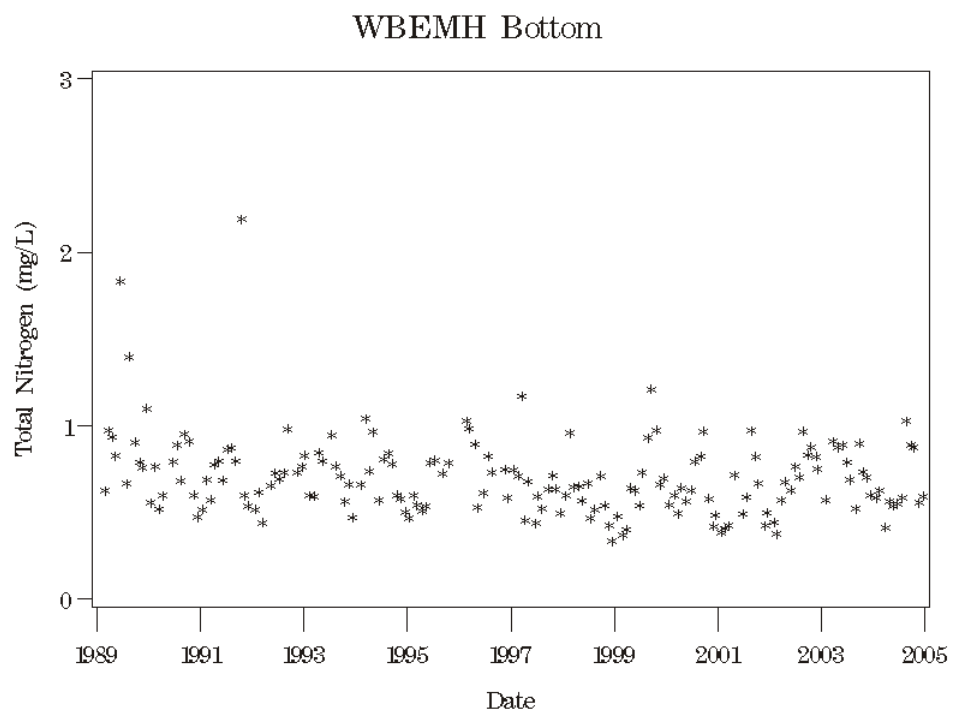


Figure 47. Scatterplots of bottom total nitrogen at segment WBEMH during the period of 1989 to 2004.

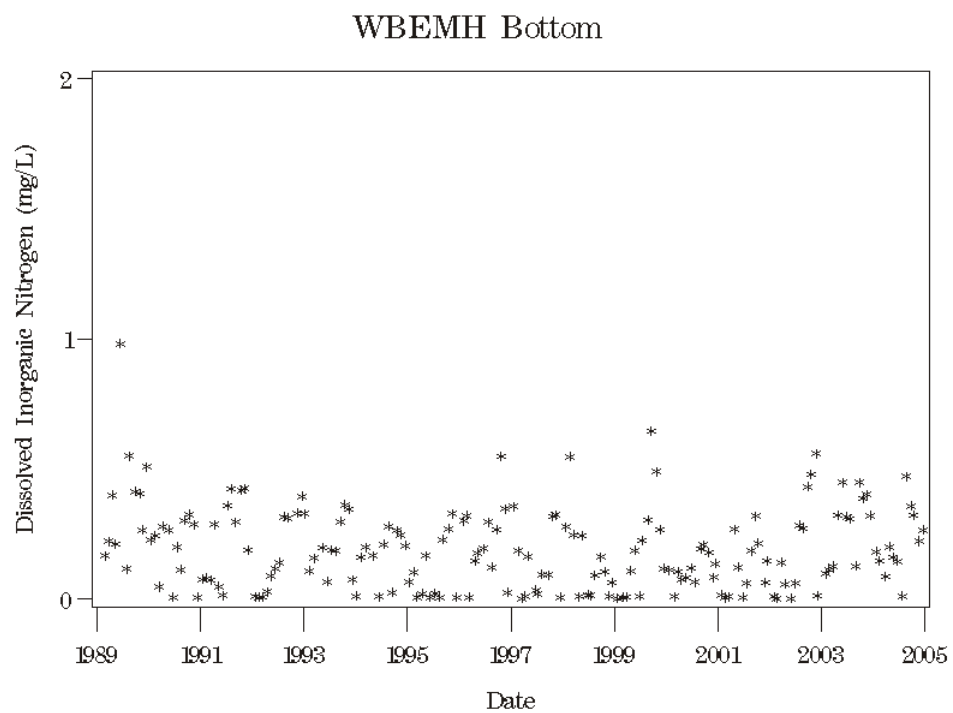


Figure 48. Scatterplots of bottom dissolved inorganic nitrogen at segment WBEMH during the period of 1989 to 2004.

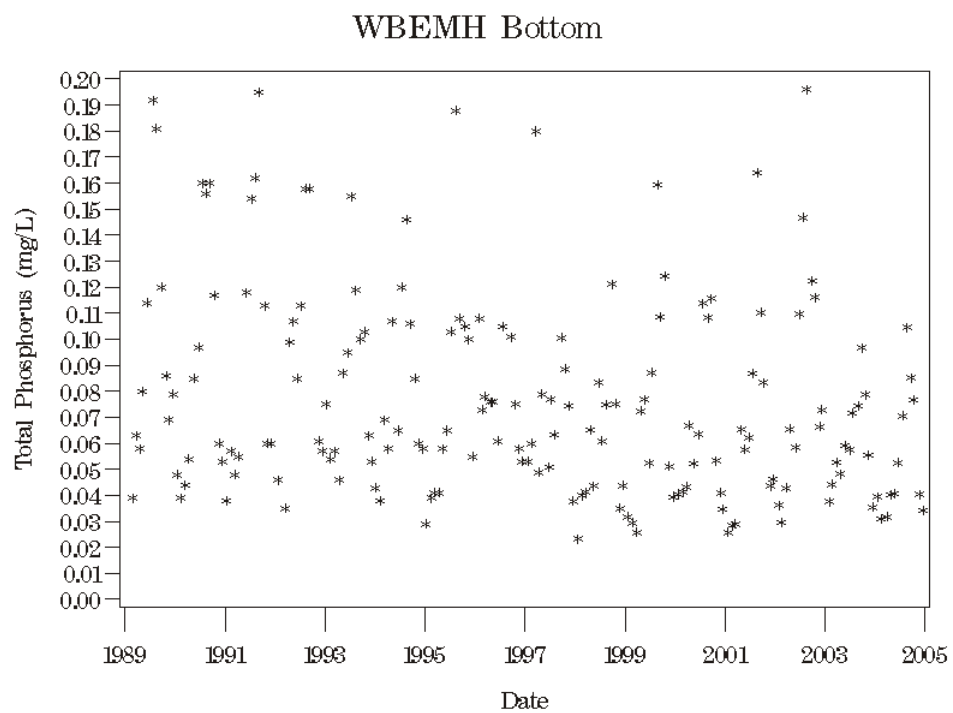


Figure 49. Scatterplots of bottom total phosphorus at segment WBEMH during the period of 1989 to 2004.

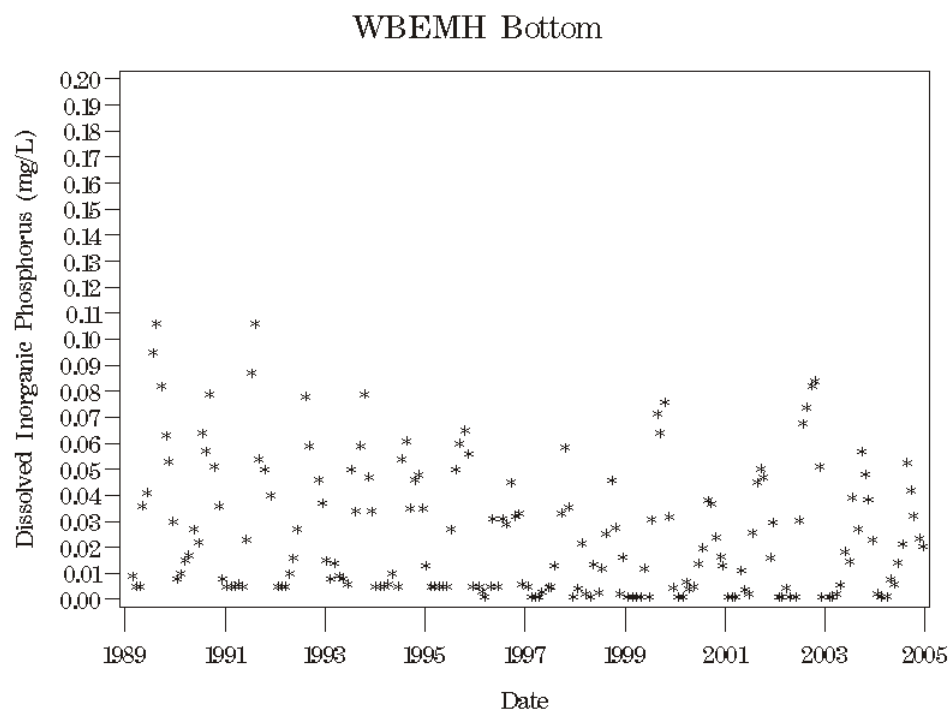


Figure 50. Scatterplots of bottom dissolved inorganic phosphorus at segment WBEMH during the period of 1989 to 2004.

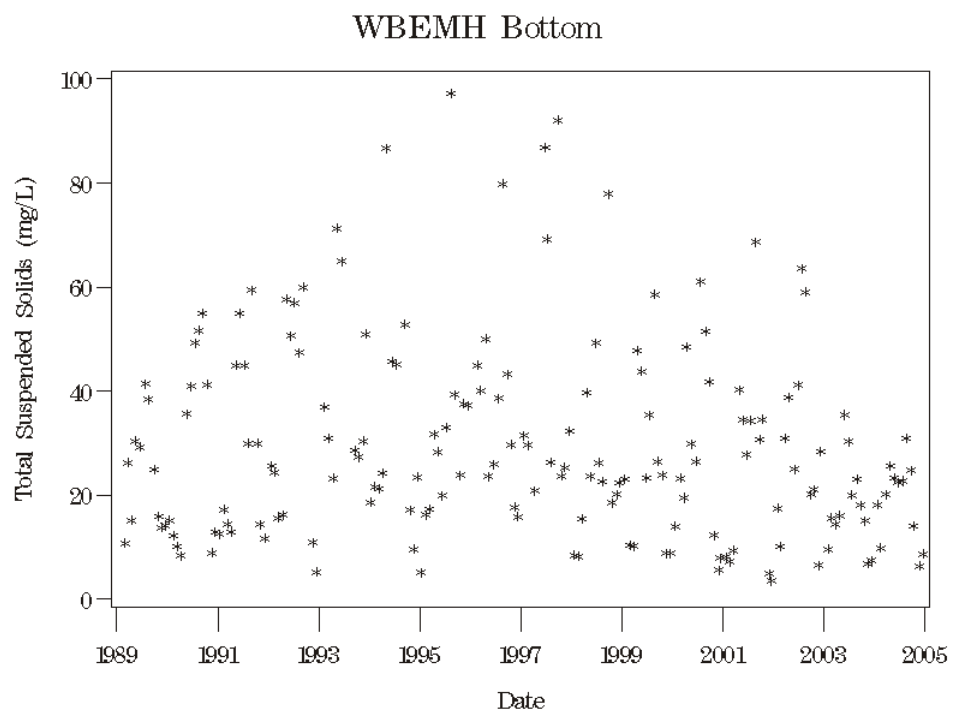


Figure 51. Scatterplot of bottom total suspended solids at segment WBEMH during the period 1985 to 2004.

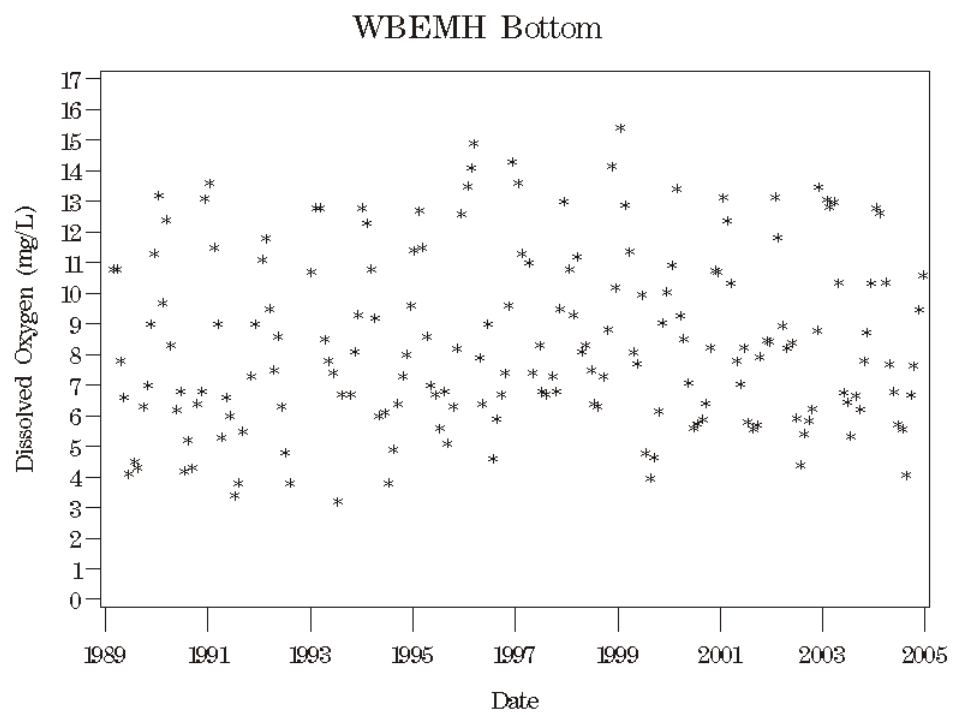


Figure 52. Scatterplot of bottom dissolved oxygen at segment WBEMH during the period 1985 to 2004.

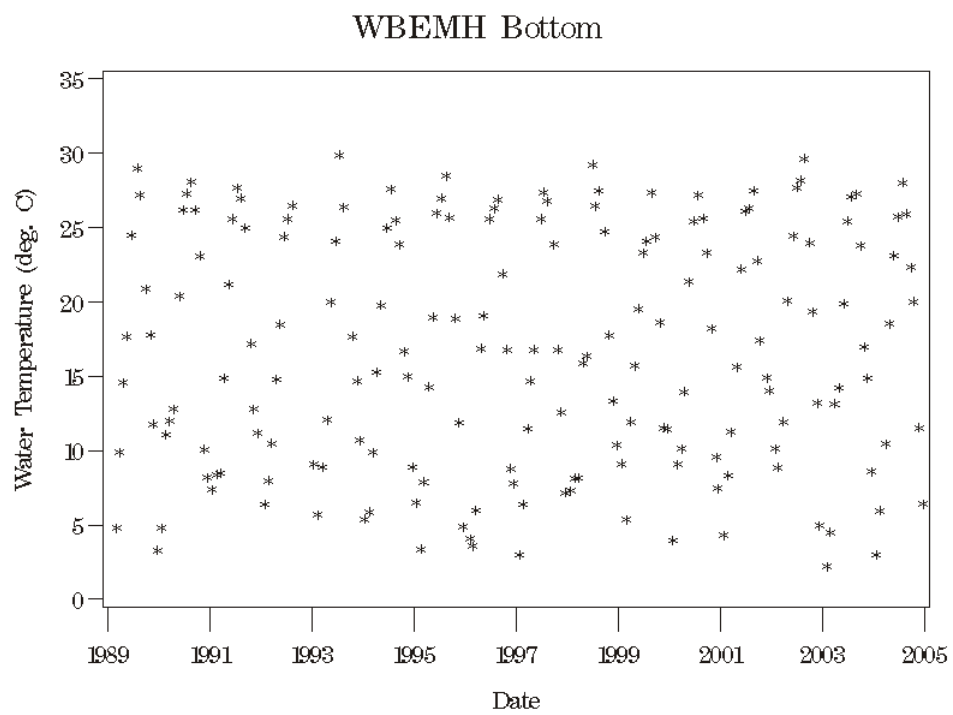


Figure 53. Scatterplot of bottom water temperature at segment WBEMH during the period 1985 to 2004.

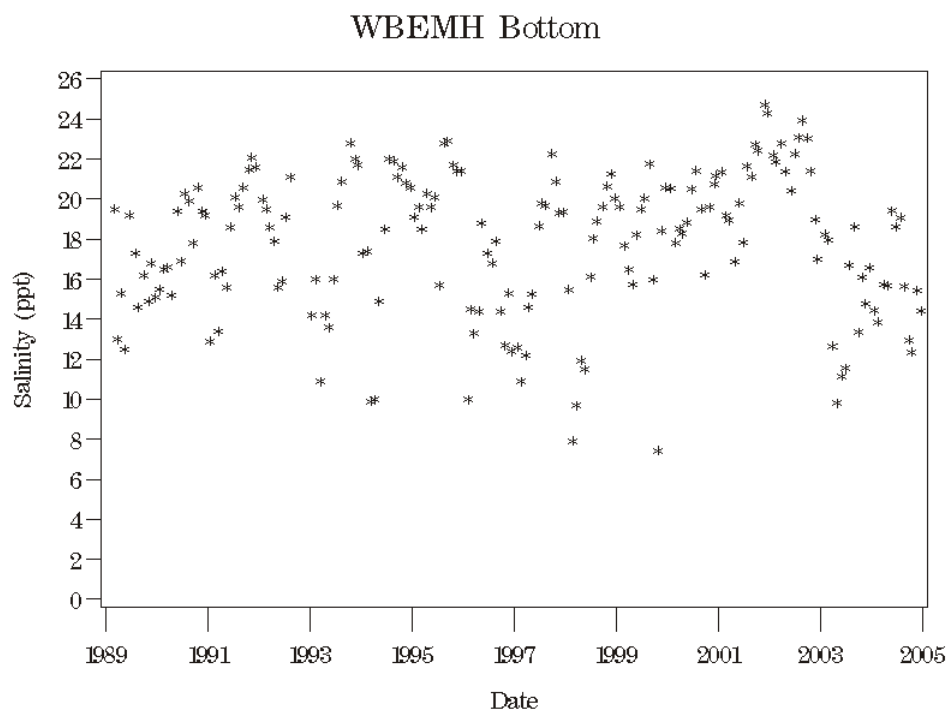


Figure 54. Scatterplot of bottom salinity at segment WBEMH during the period 1985 to 2004.

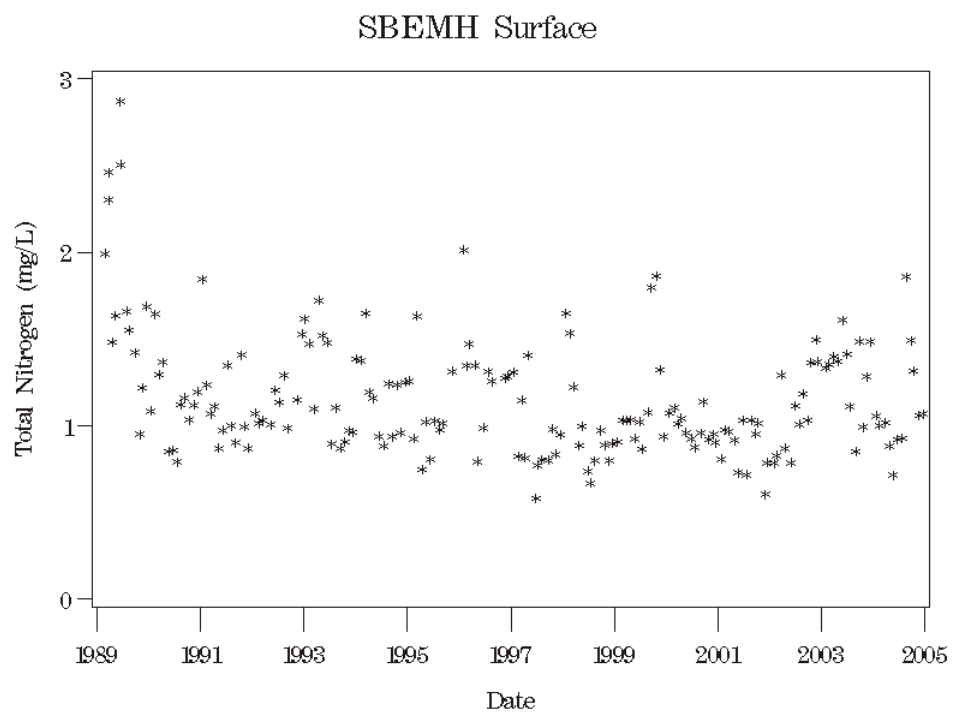


Figure 55. Scatterplots of surface total nitrogen at segment SBEMH during the period of 1989 to 2004.

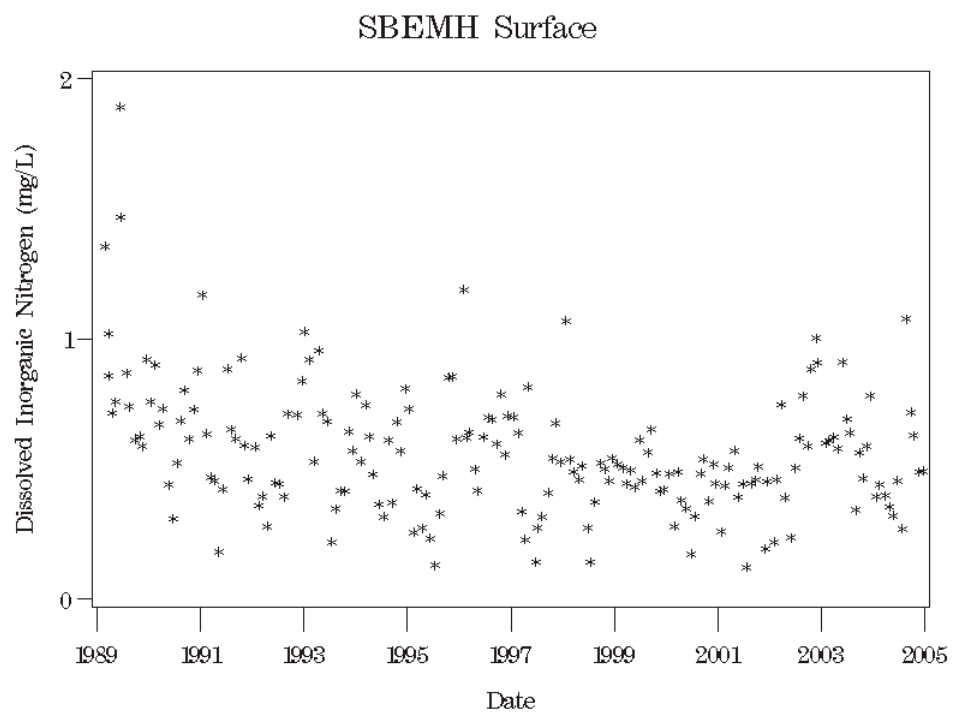


Figure 56. Scatterplots of surface dissolved inorganic nitrogen at segment SBEMH during the period of 1989 to 2004.

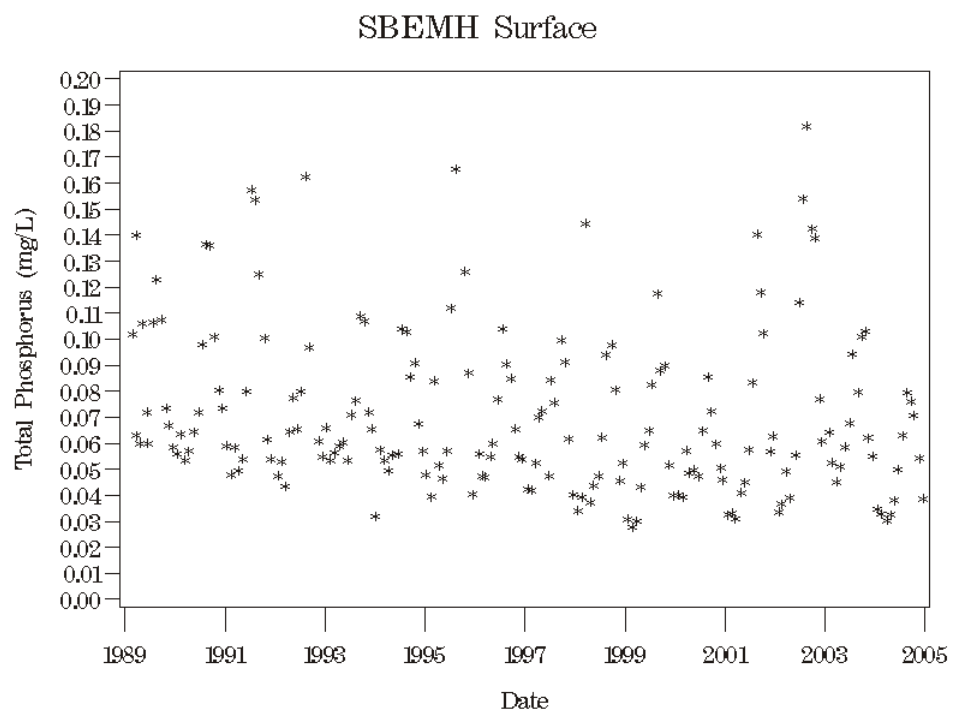


Figure 57. Scatterplots of surface total phosphorus at segment SBEMH during the period of 1989 to 2004.

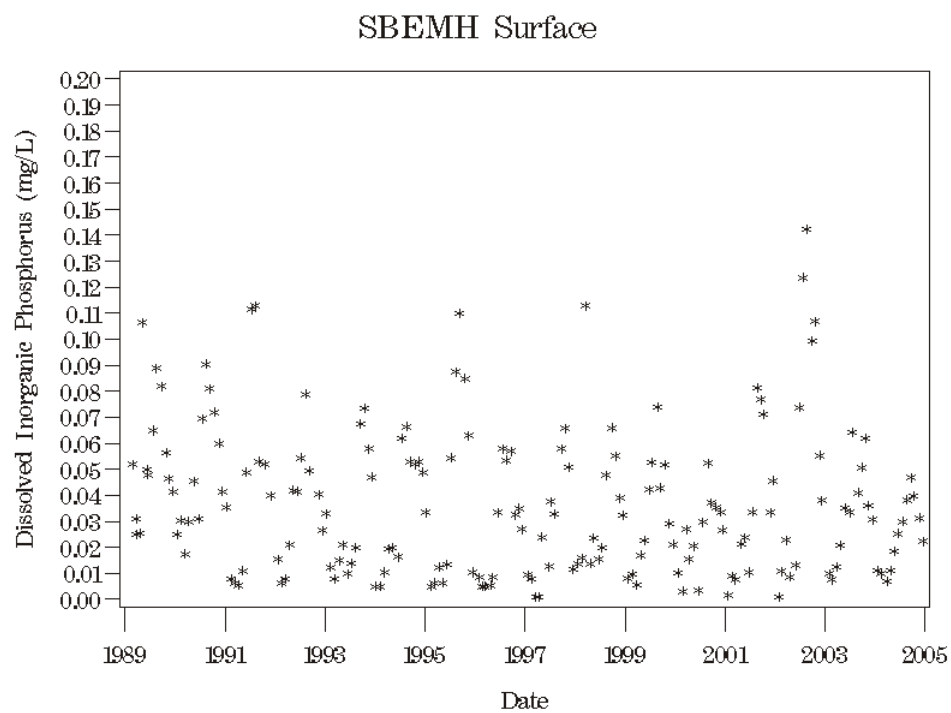


Figure 58. Scatterplots of surface dissolved inorganic phosphorus at segment SBEMH during the period of 1989 to 2004.

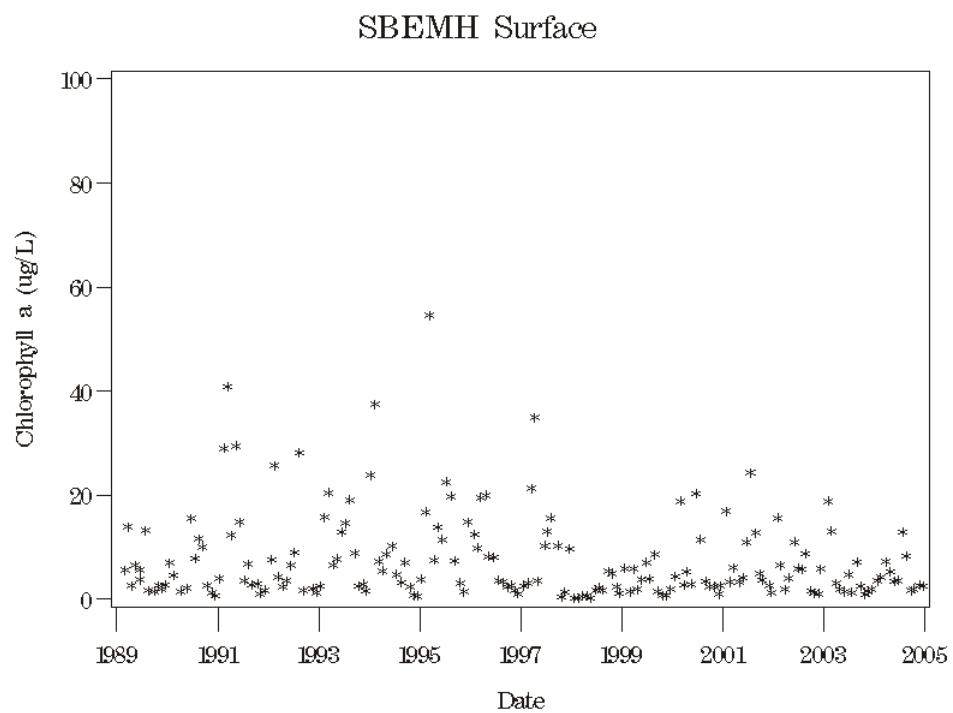


Figure 59. Scatterplot of surface chlorophyll *a* at segment SBEMH during the period 1985 to 2004.

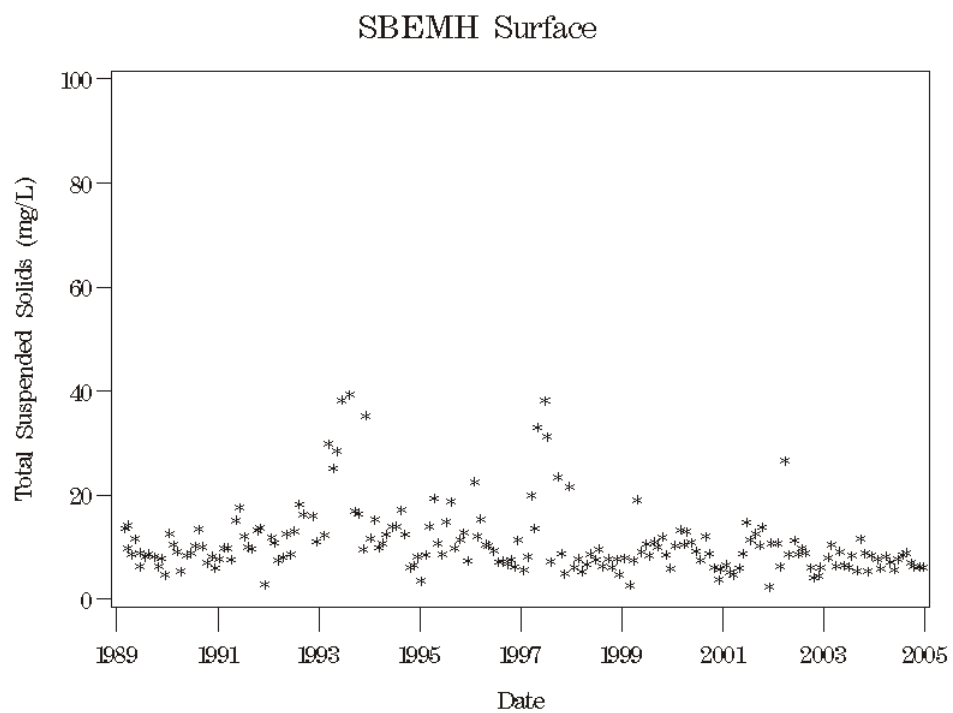


Figure 60. Scatterplot of surface total suspended solids at segment SBEMH during the period 1985 to 2004.

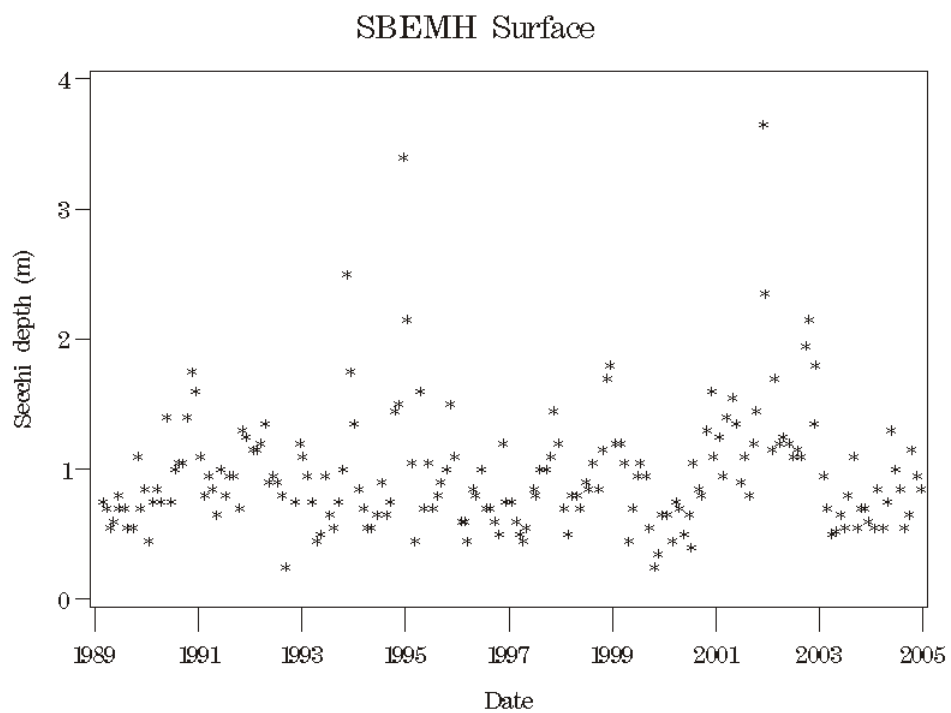


Figure 61. Scatterplot of secchi depth at segment SBEMH during the period 1989 through 2004.

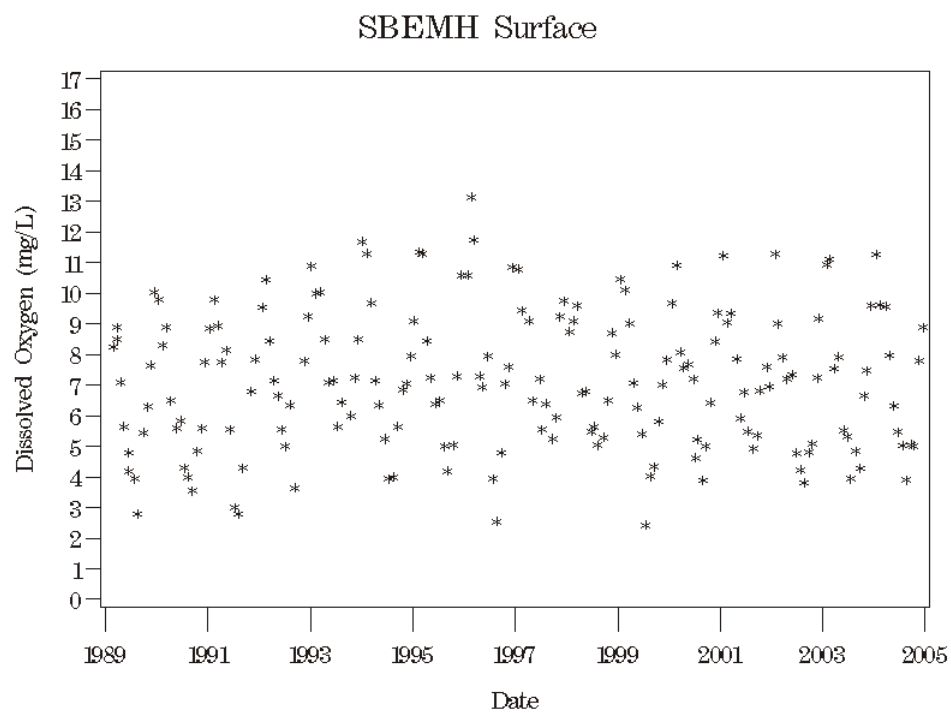


Figure 62. Scatterplot of surface dissolved oxygen at segment SBEMH during the period 1985 to 2004.

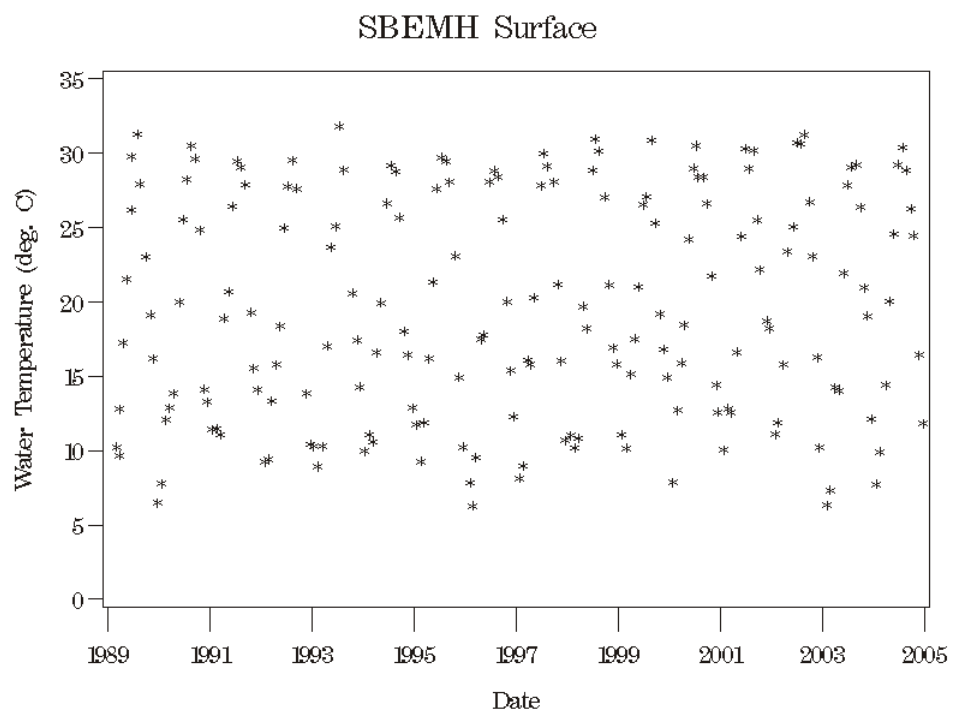


Figure 63. Scatterplot of surface water temperature at segment SBEMH during the period 1985 to 2004.

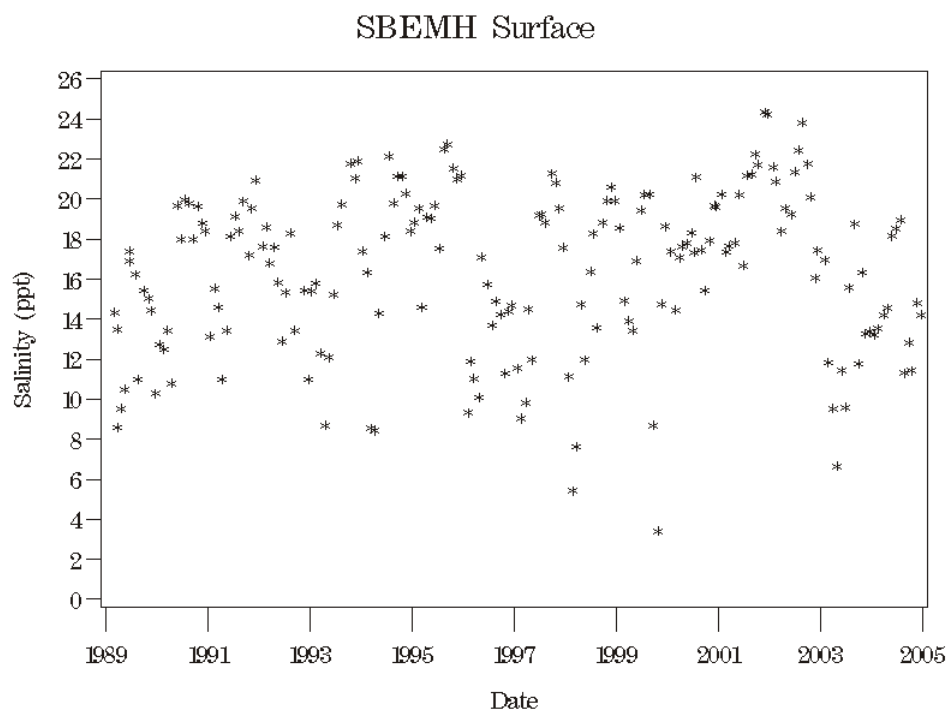


Figure 64. Scatterplot of surface salinity at segment SBEMH during the period 1985 to 2004.

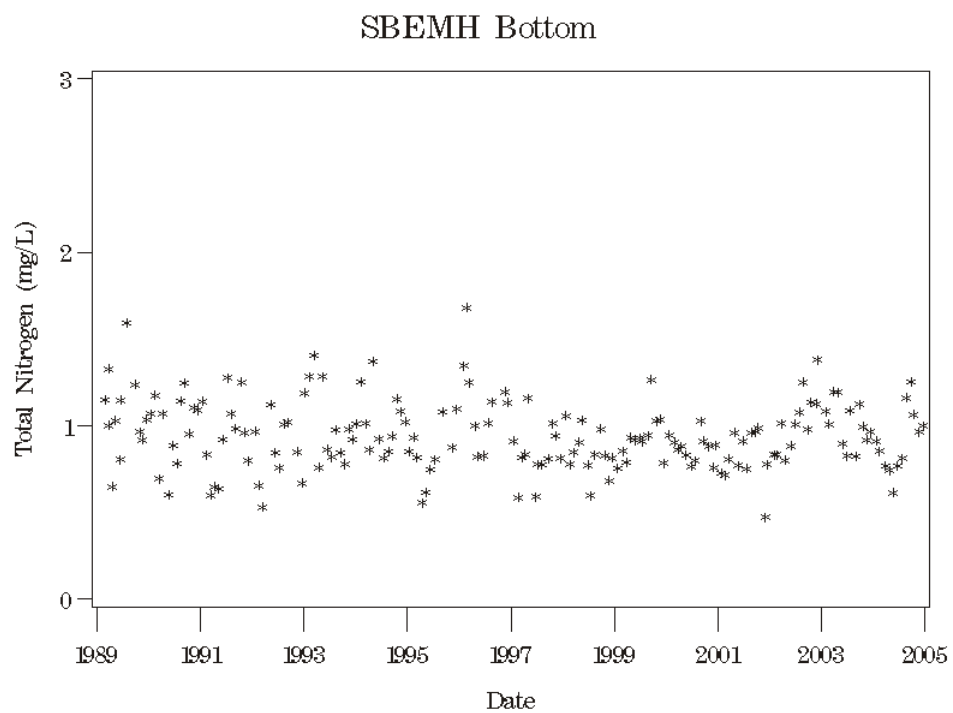


Figure 65. Scatterplots of bottom total nitrogen at segment SBEMH during the period of 1989 to 2004.

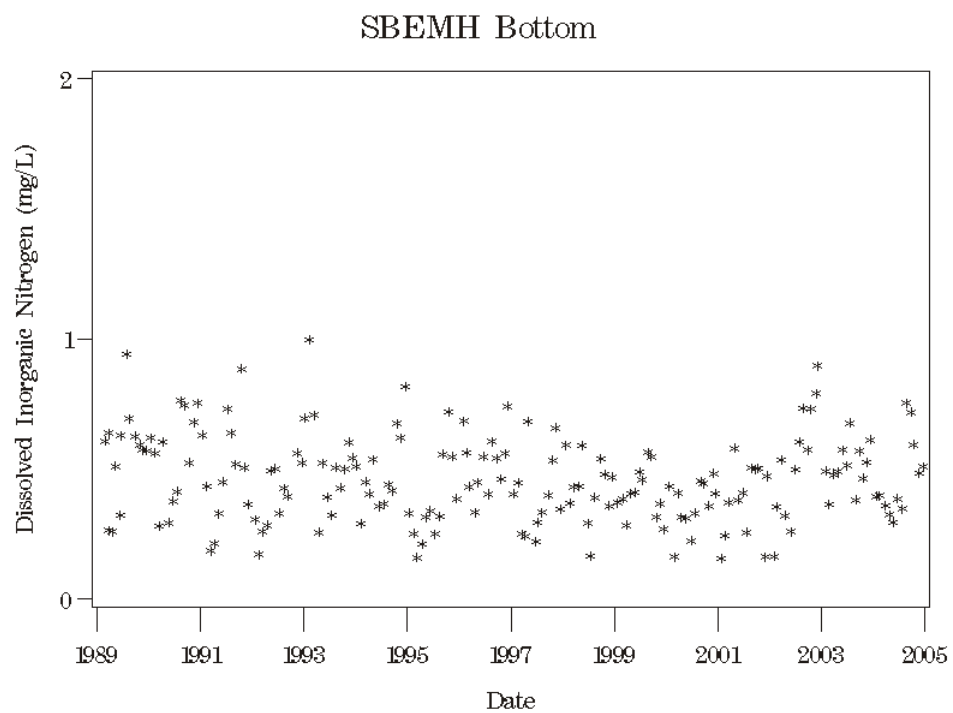


Figure 66. Scatterplots of bottom dissolved inorganic nitrogen at segment SBEMH during the period of 1989 to 2004.

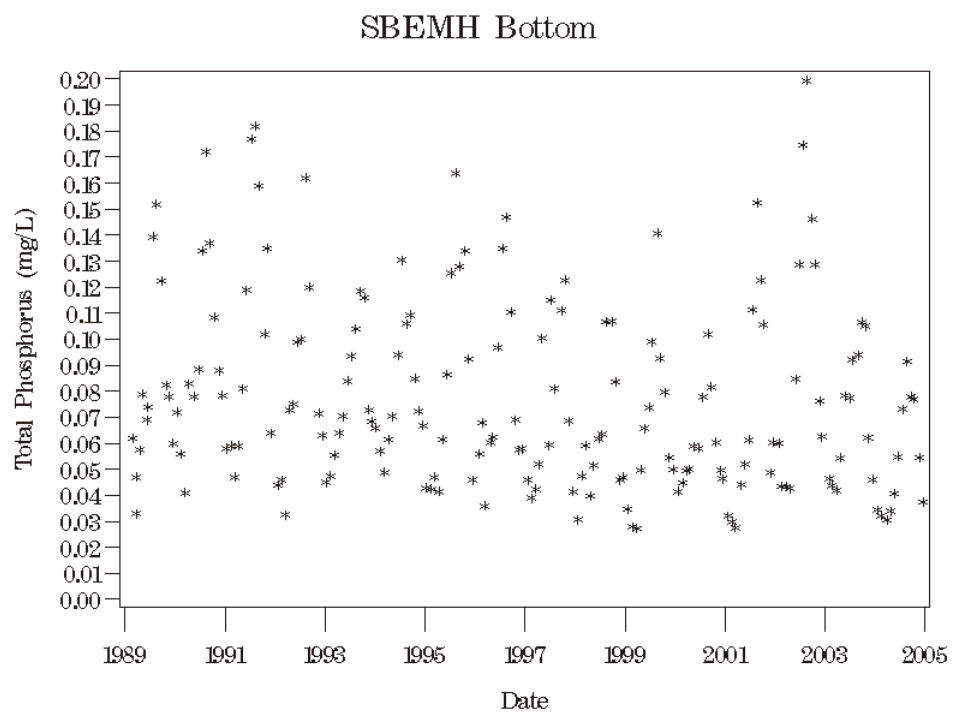


Figure 67. Scatterplots of bottom total phosphorus at segment SBEMH during the period of 1989 to 2004.

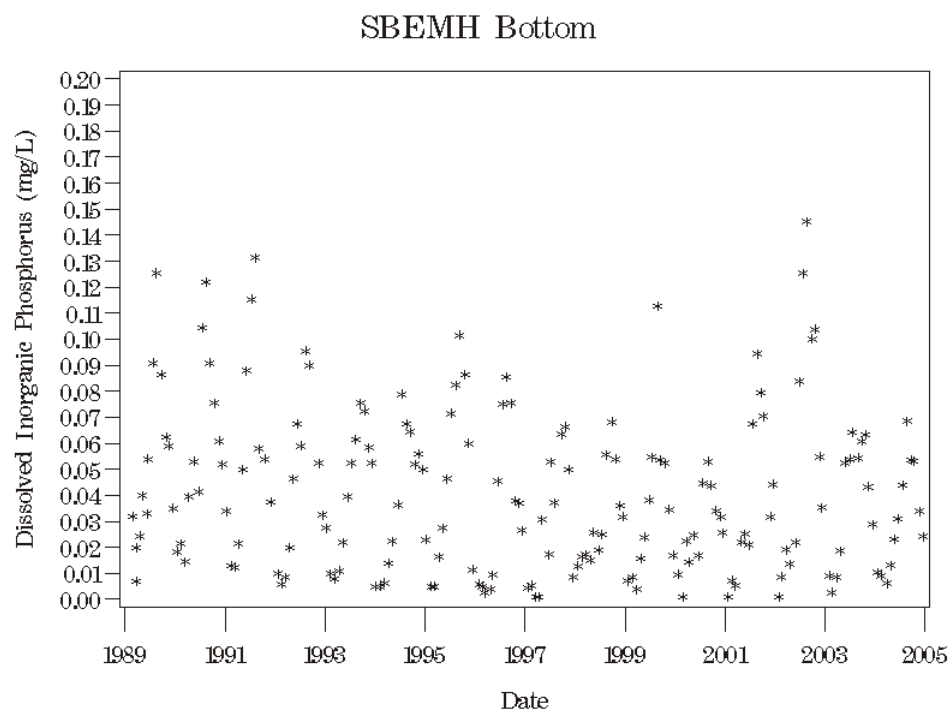


Figure 68. Scatterplots of bottom dissolved inorganic phosphorus at segment SBEMH during the period of 1989 to 2004.

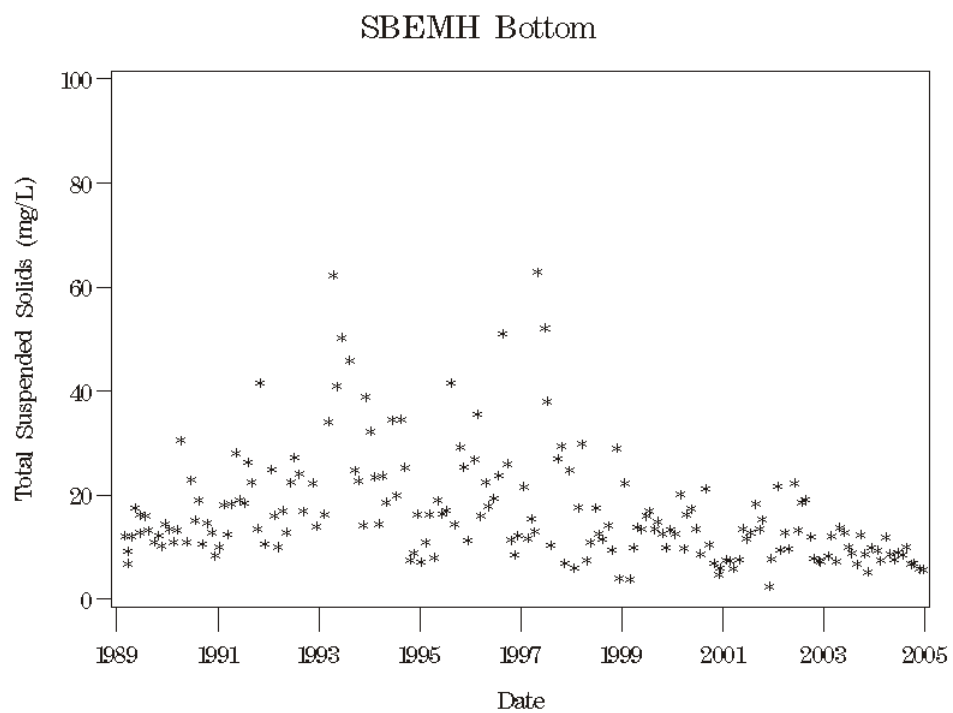


Figure 69. Scatterplot of bottom total suspended solids at segment SBEMH during the period 1985 to 2004.

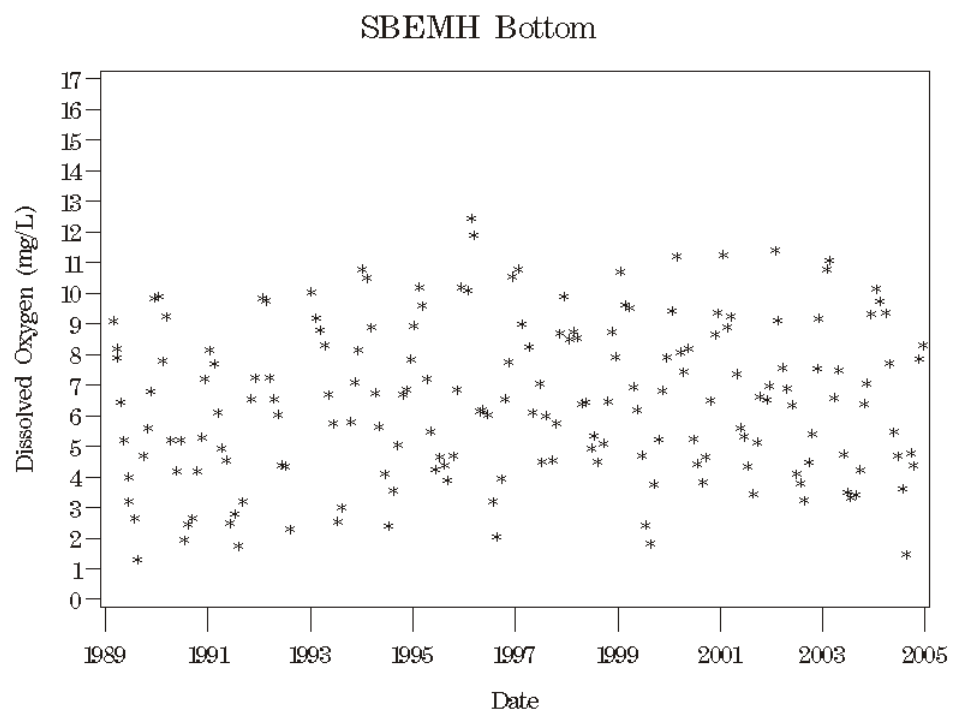


Figure 70. Scatterplot of bottom dissolved oxygen at segment SBEMH during the period 1985 to 2004.

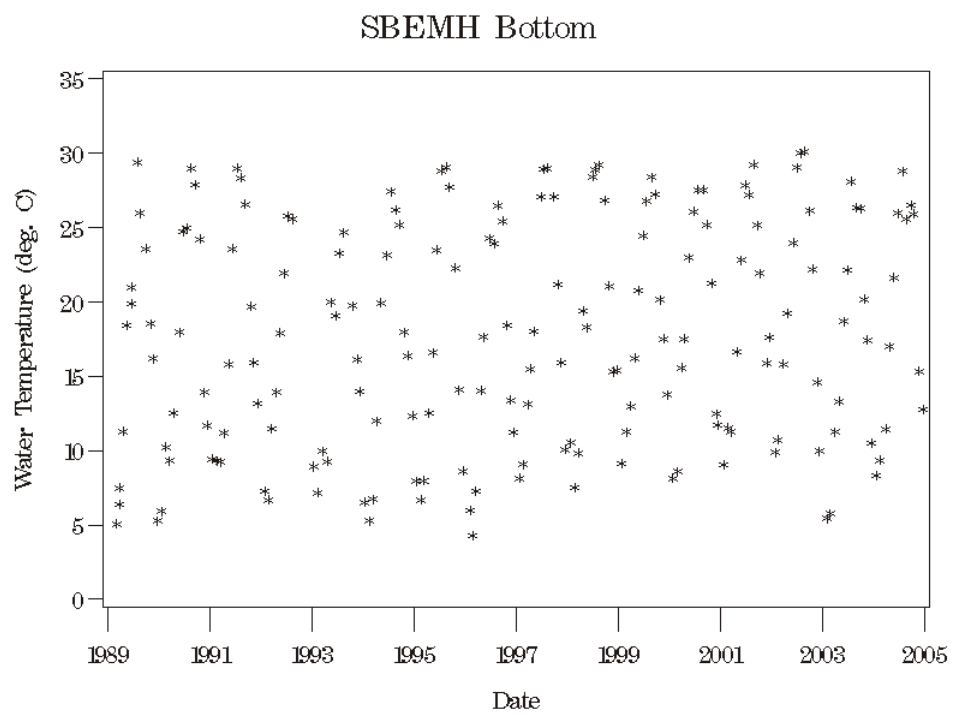


Figure 71. Scatterplot of bottom water temperature at segment SBEMH during the period 1985 to 2004.

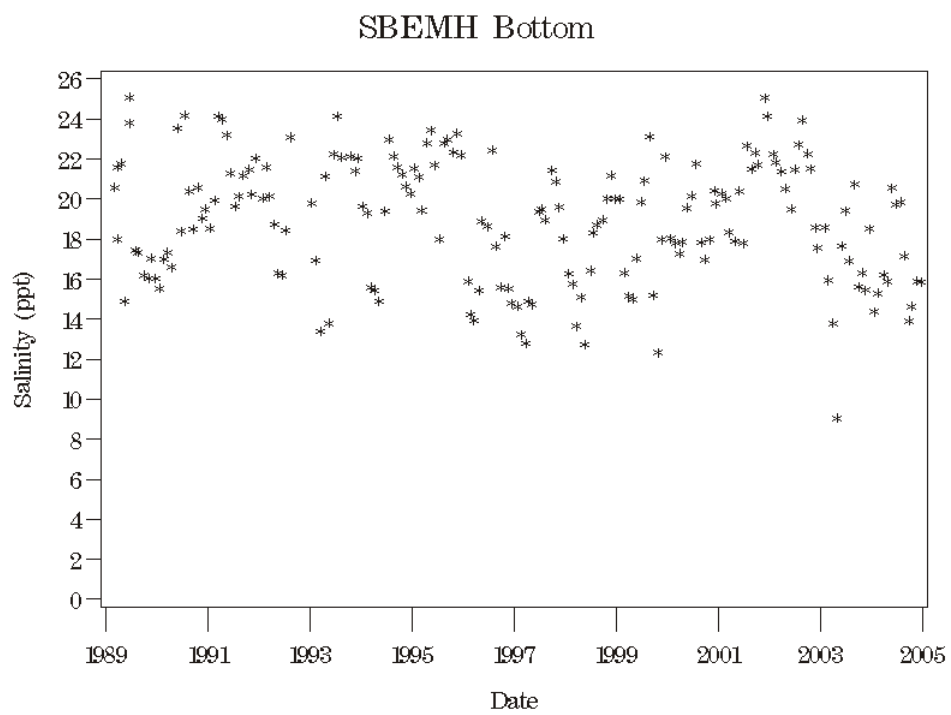


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Appendix C - Water Quality Scatterplots
Section III - York River

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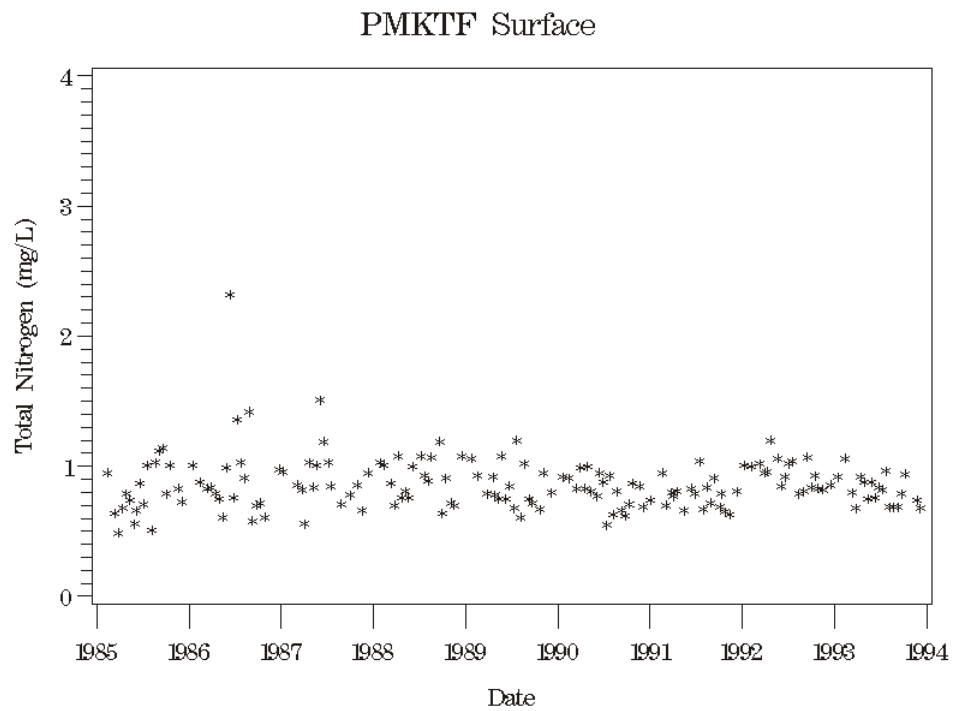
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a) Pre-method change period



b) Post-method change period

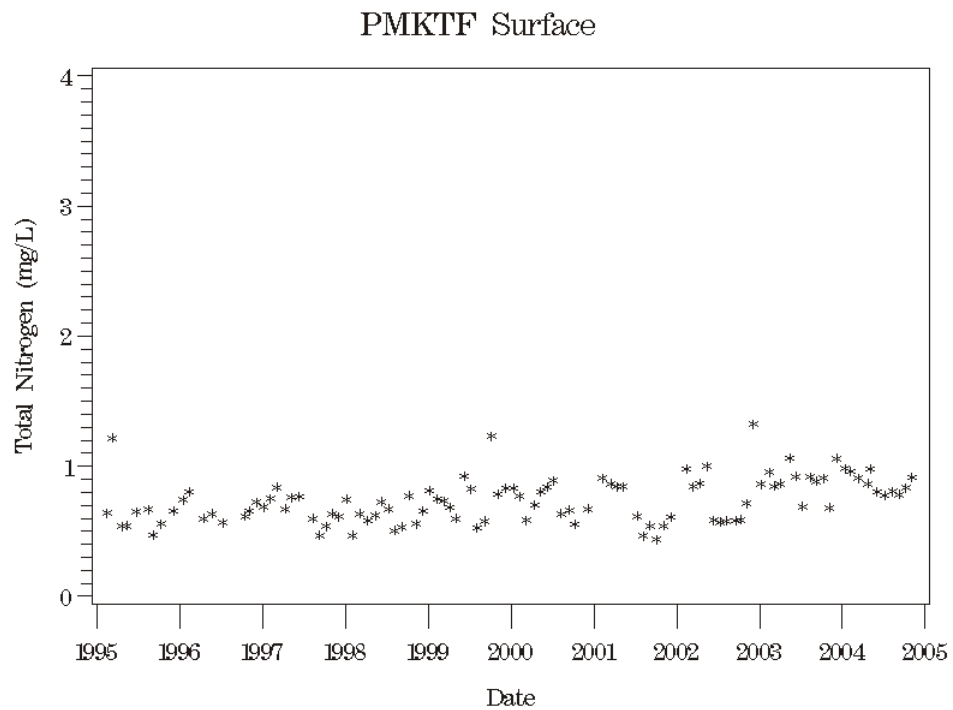
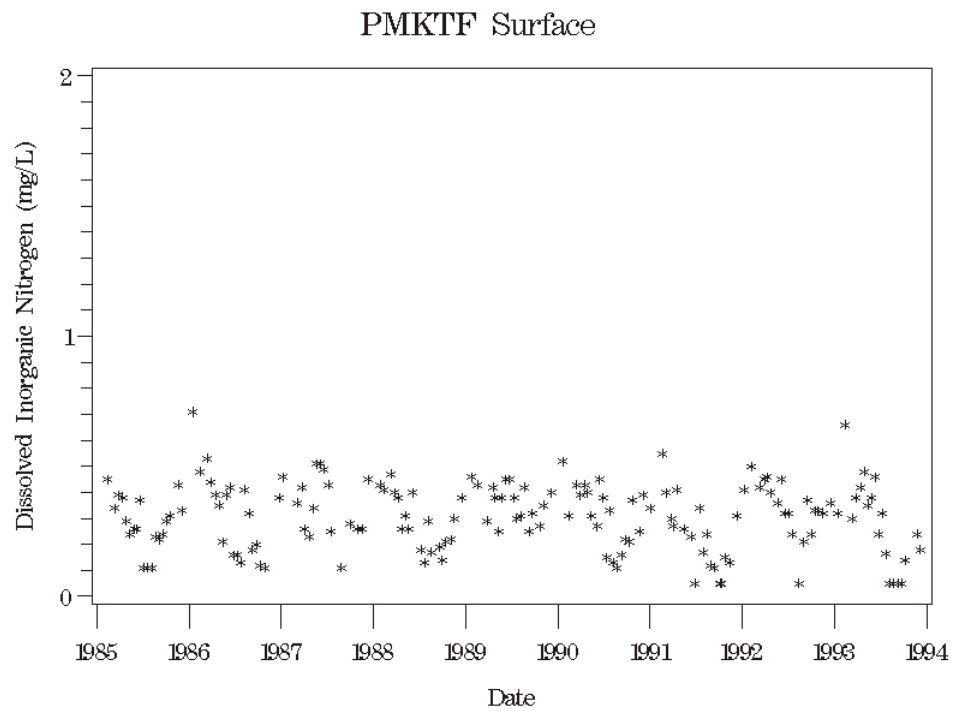


Figure 1. Scatterplots of surface total nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

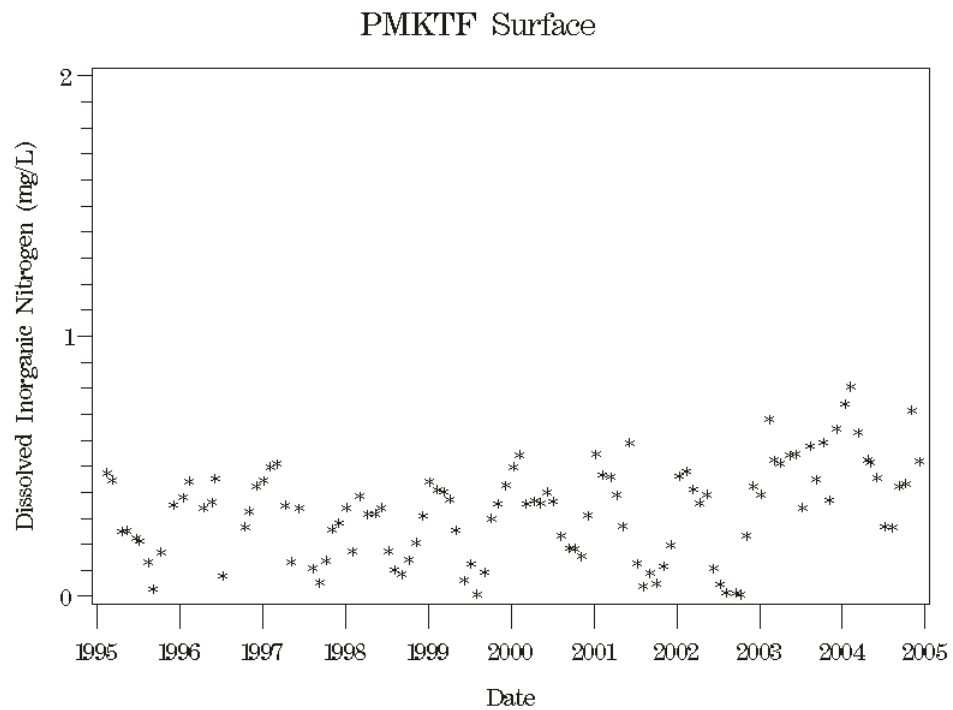
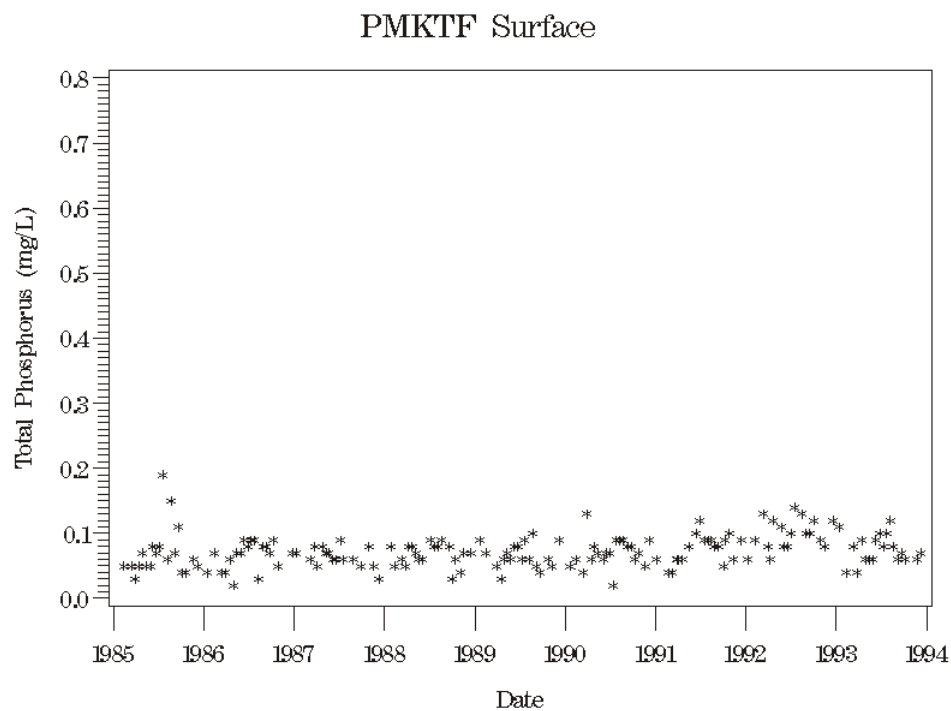


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

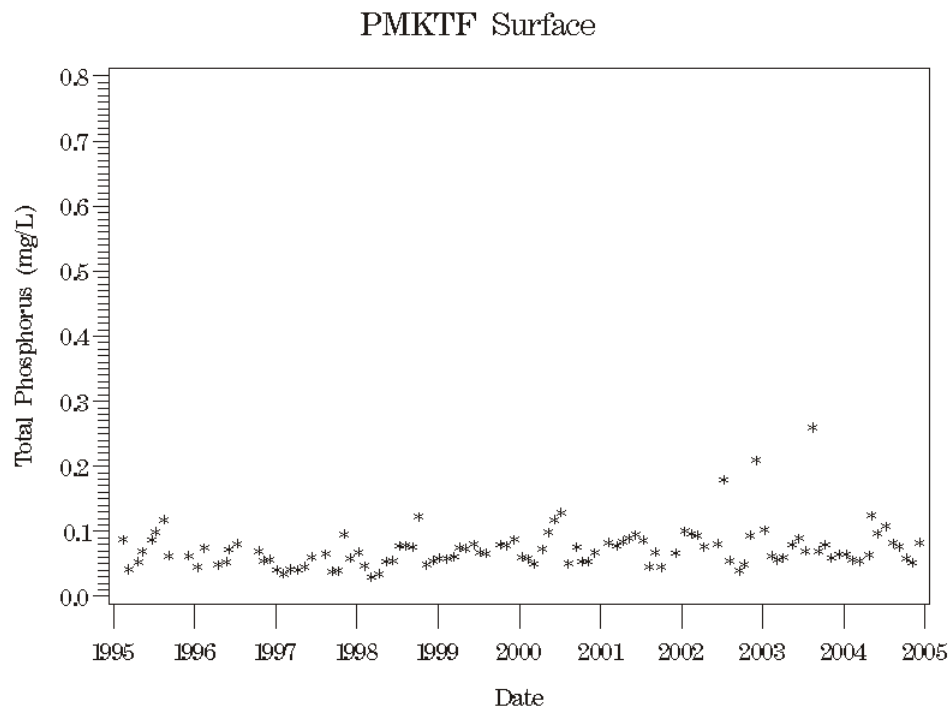
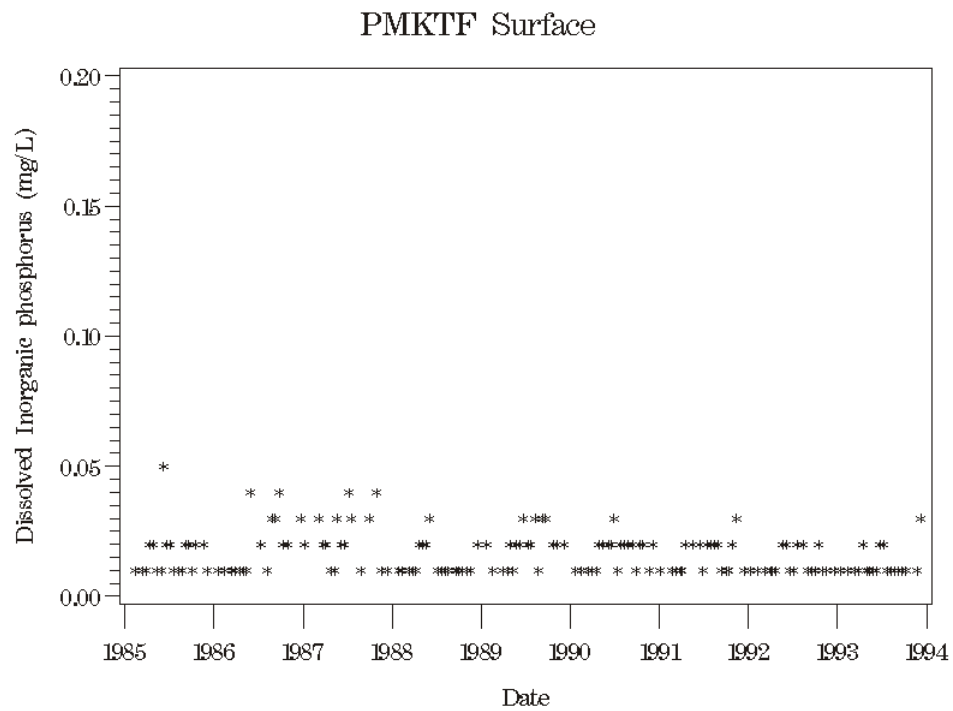


Figure 3. Scatterplots of surface total phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

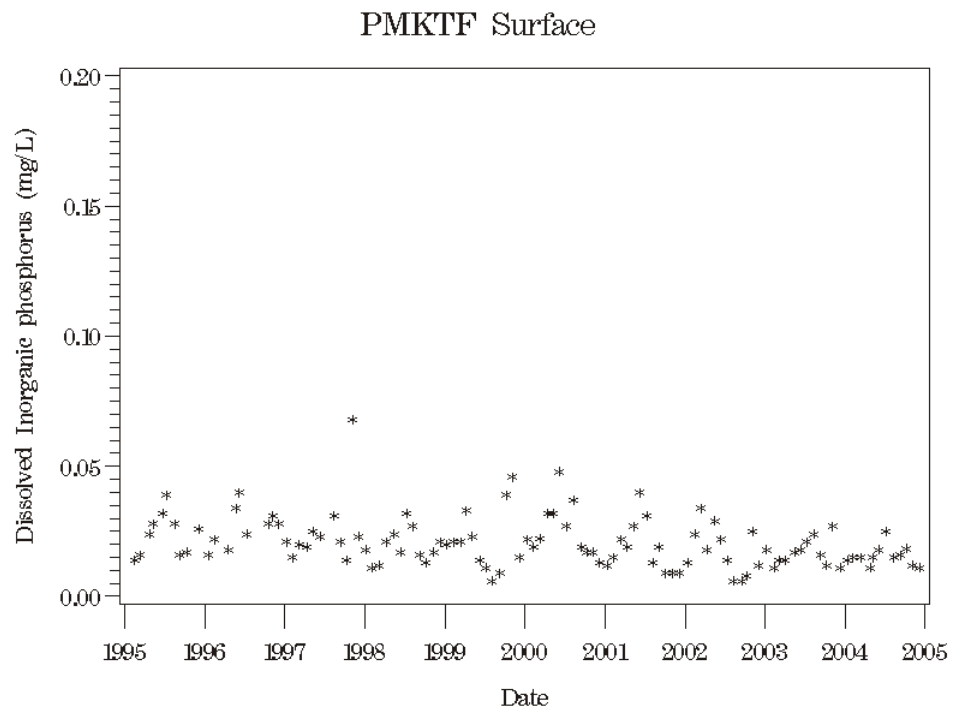


Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

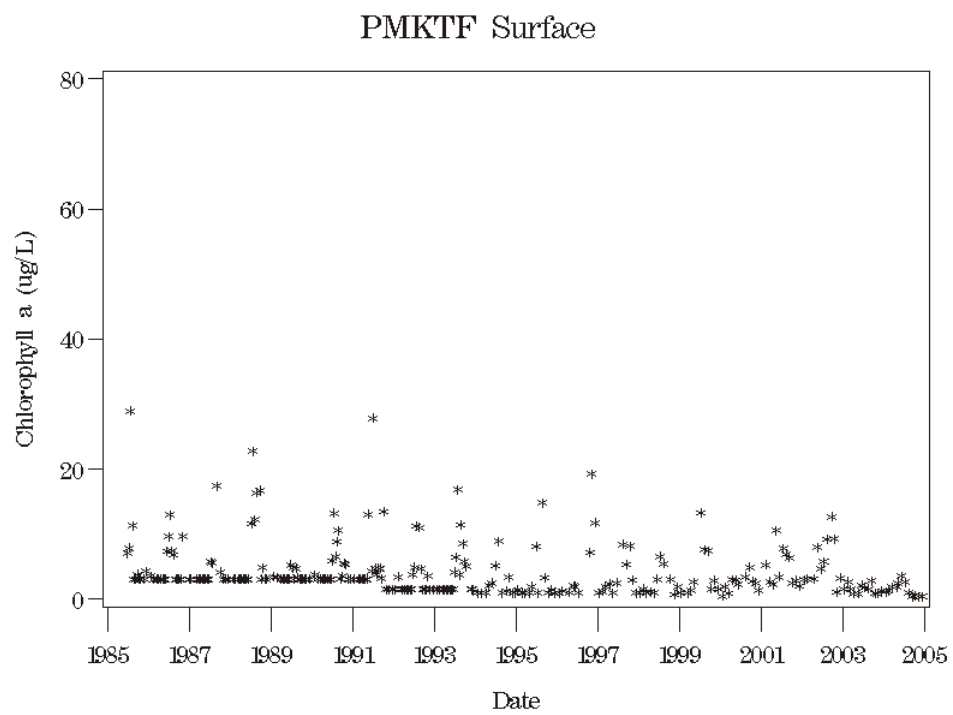


Figure 5. Scatterplot of surface chlorophyll *a* at segment PMKTF during the period 1985 to 2004.

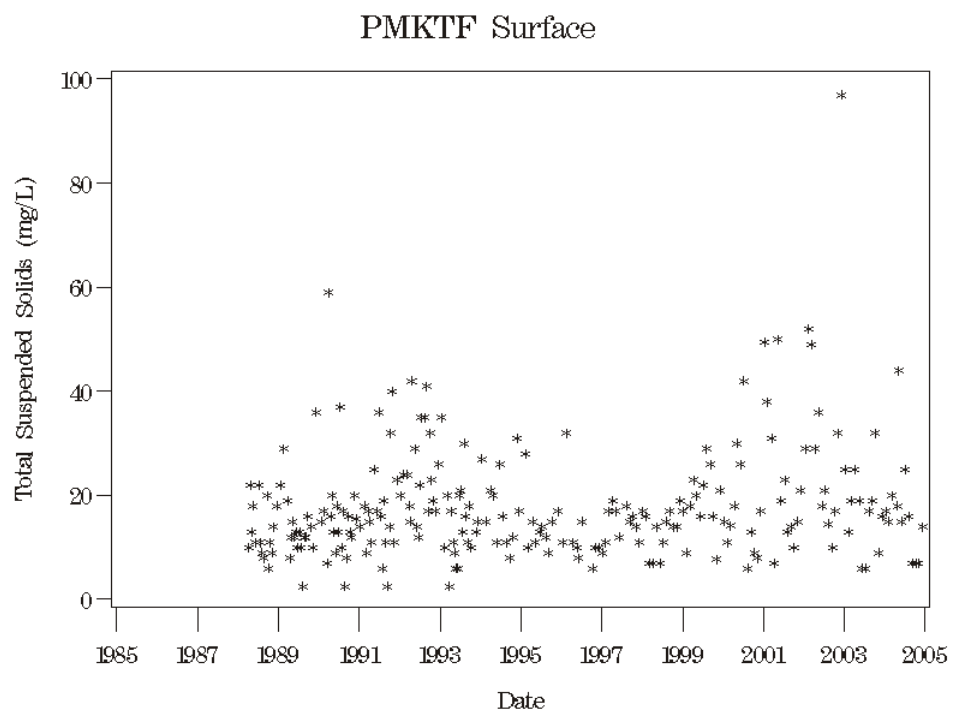


Figure 6. Scatterplot of surface total suspended solids at segment PMKTF during the period 1985 to 2004.

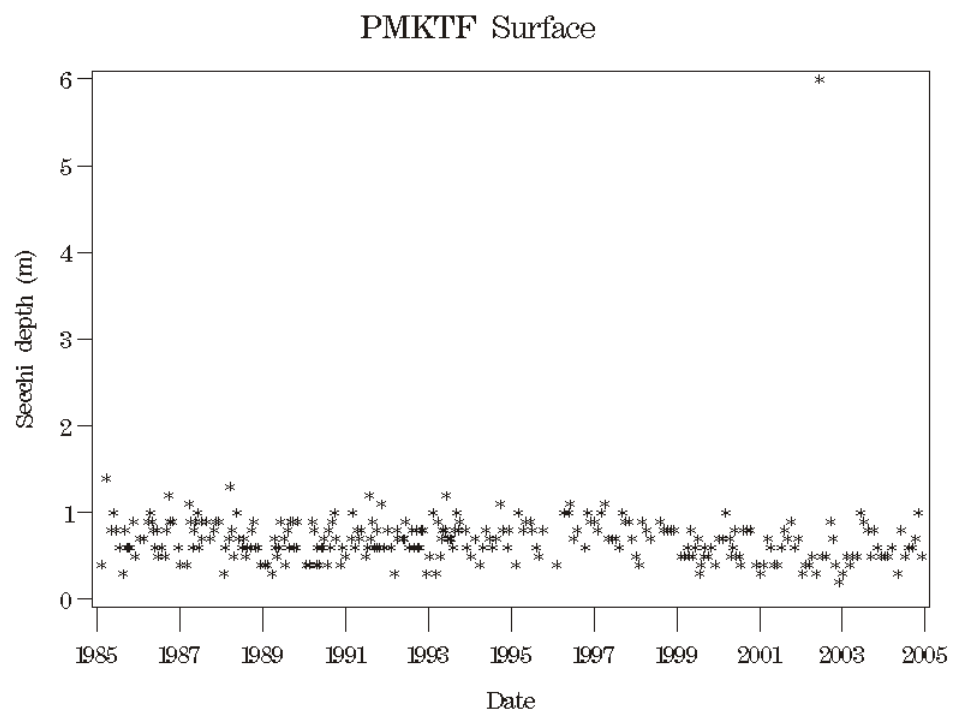


Figure 7. Scatterplot of secchi depth at segment PMKTF during the period 1985 to 2004.

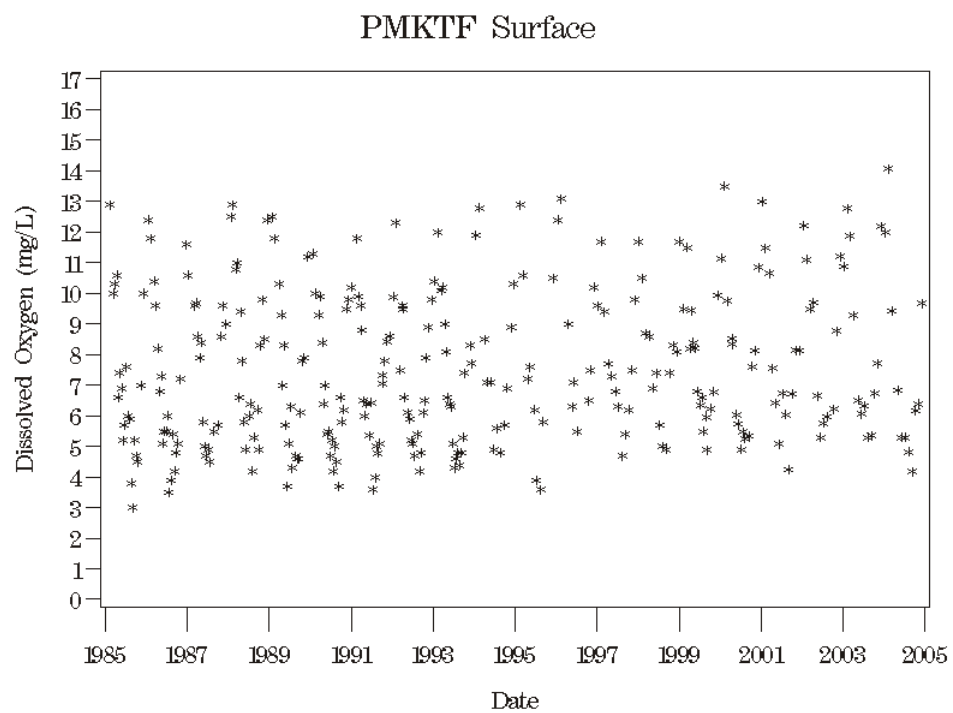


Figure 8. Scatterplot of surface dissolved oxygen at segment PMKTF during the period 1985 to 2004.

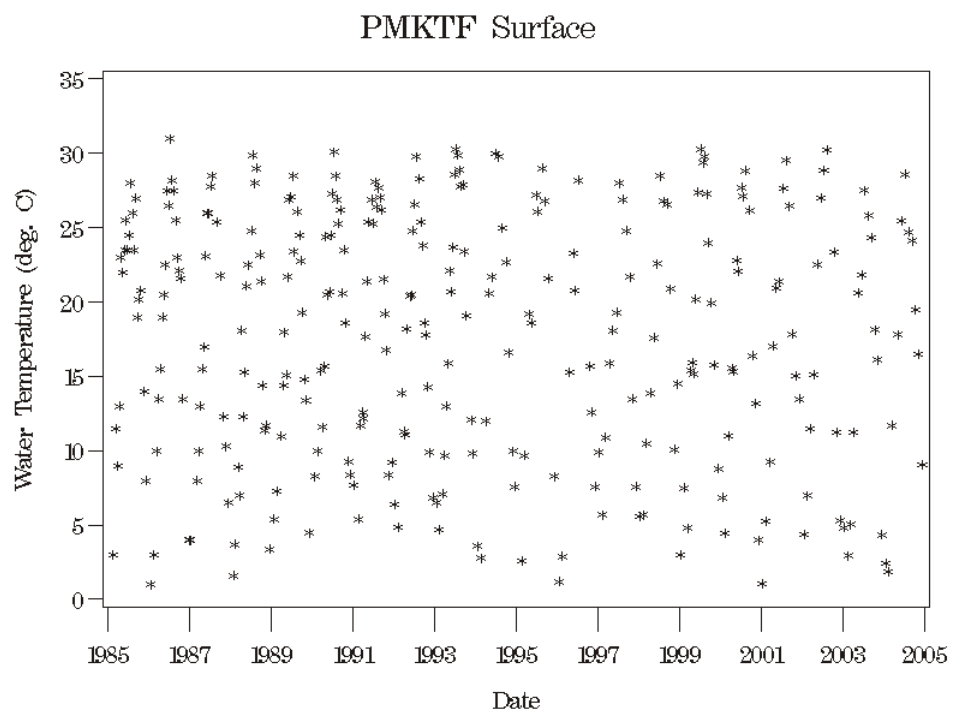


Figure 9. Scatterplot of surface water temperature at segment PMKTF during the period 1985 to 2004.

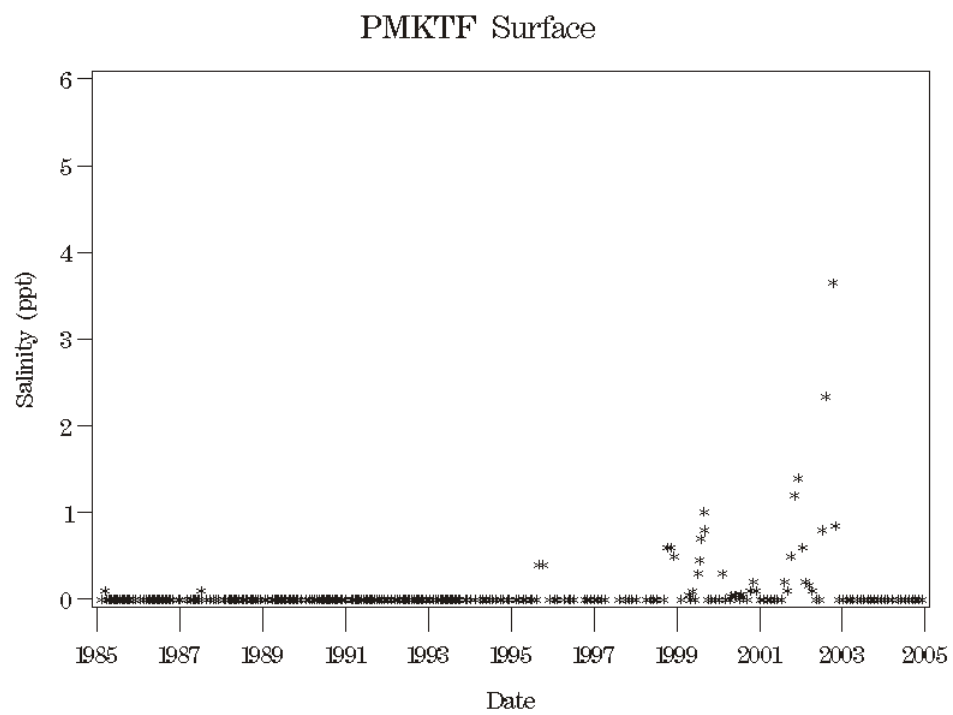
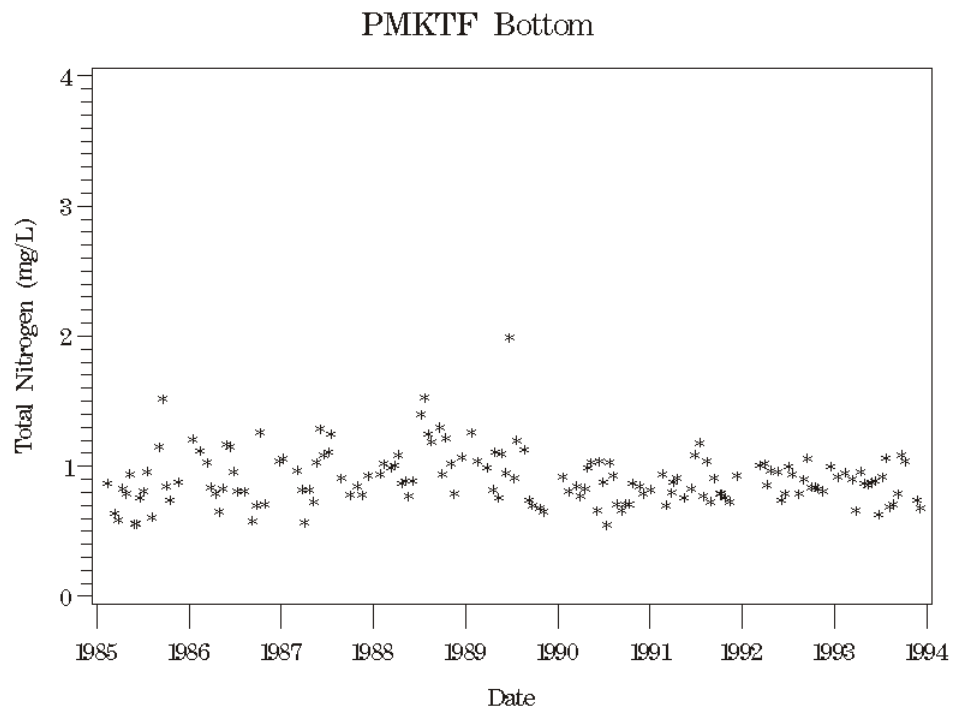


Figure 10. Scatterplot of surface salinity at segment PMKTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

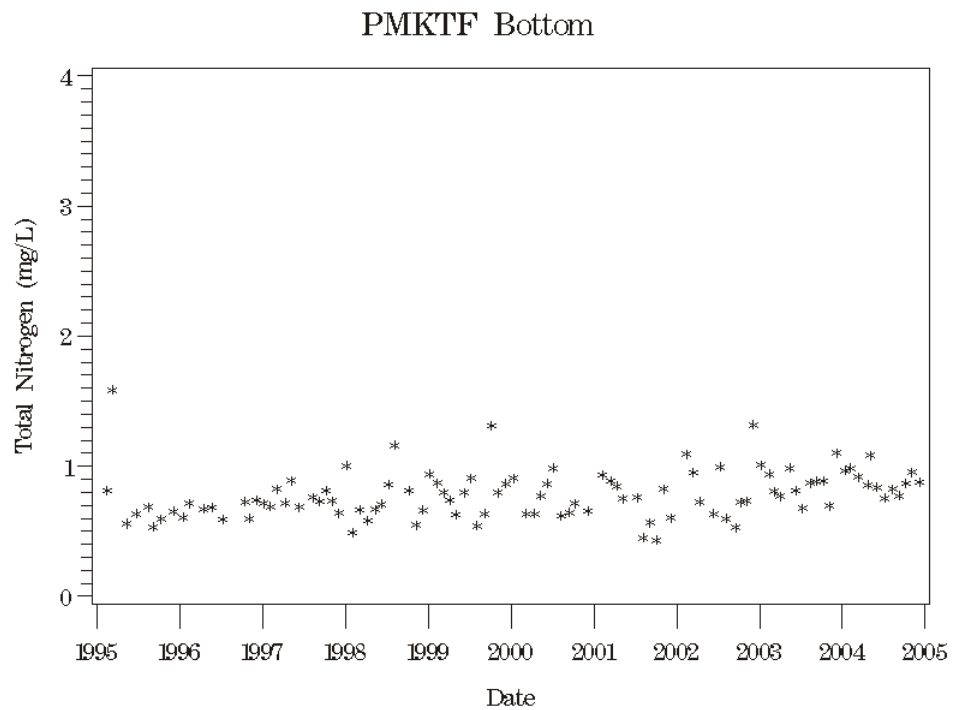
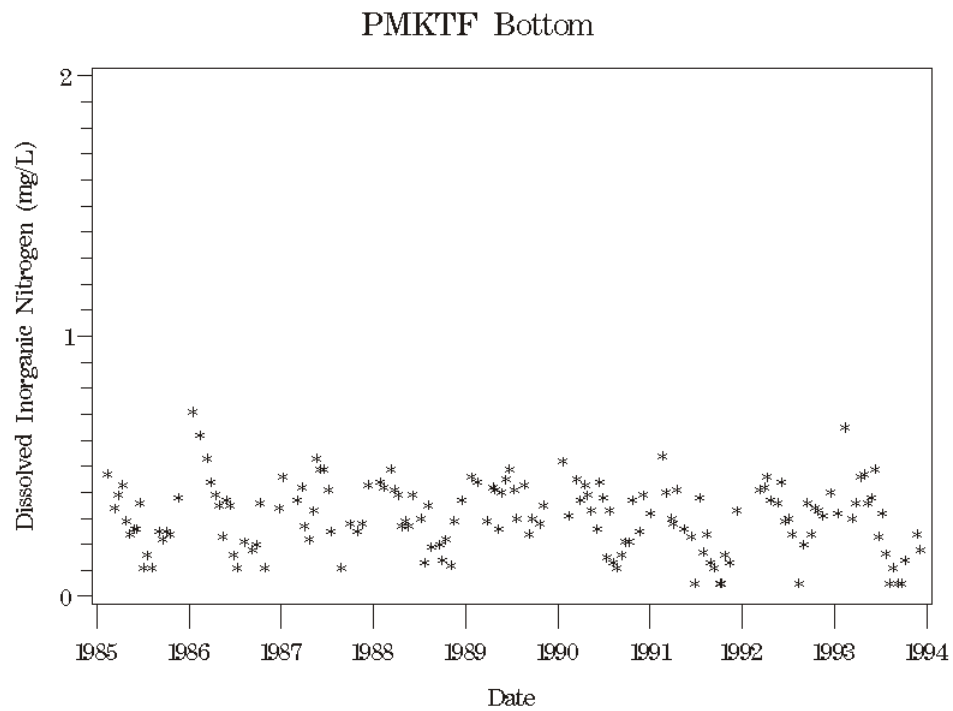


Figure 11. Scatterplots of bottom total nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

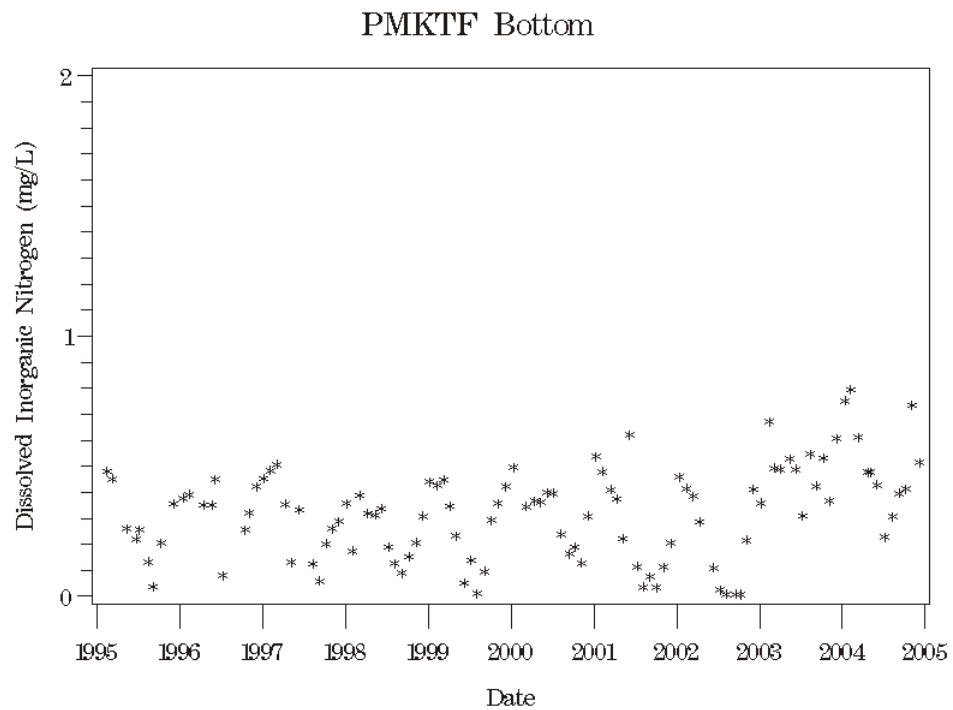
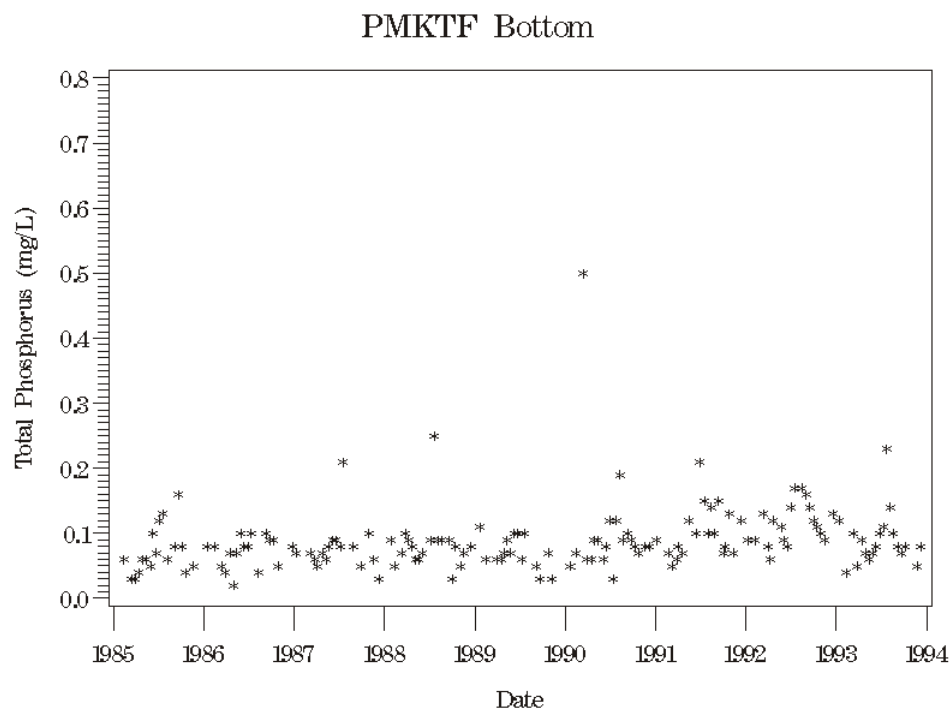


Figure 12. Scatterplots of bottom dissolved inorganic nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

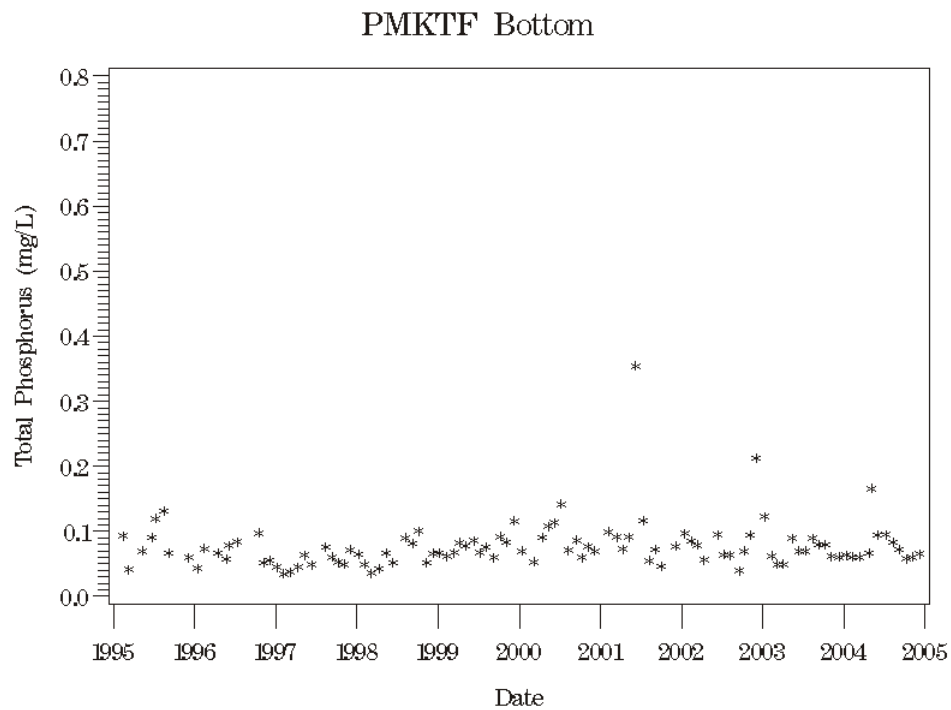
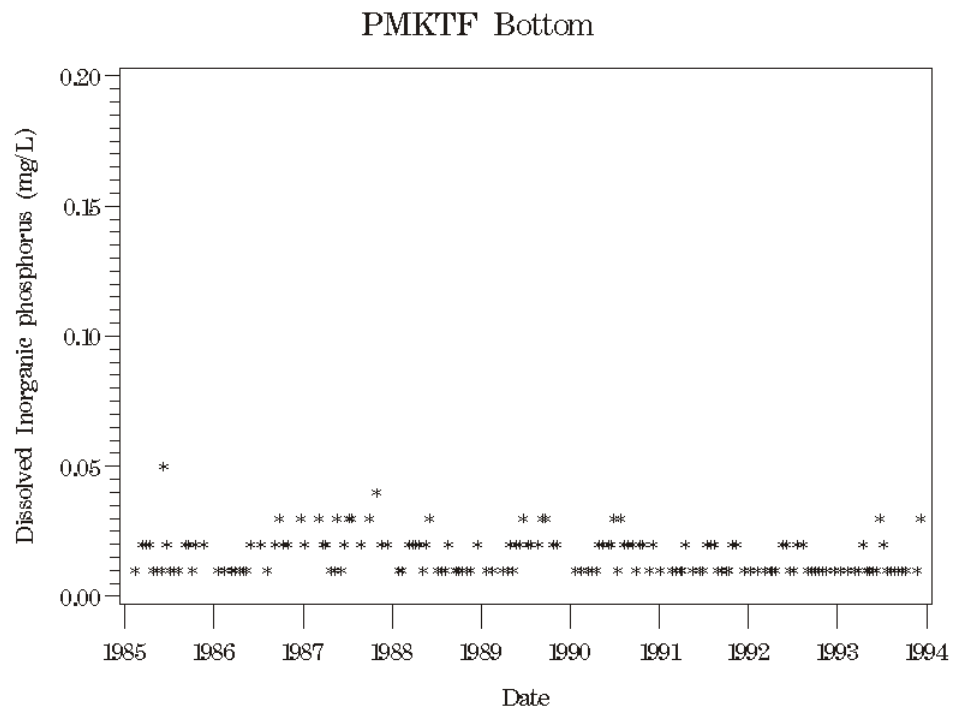


Figure 13. Scatterplots of bottom total phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

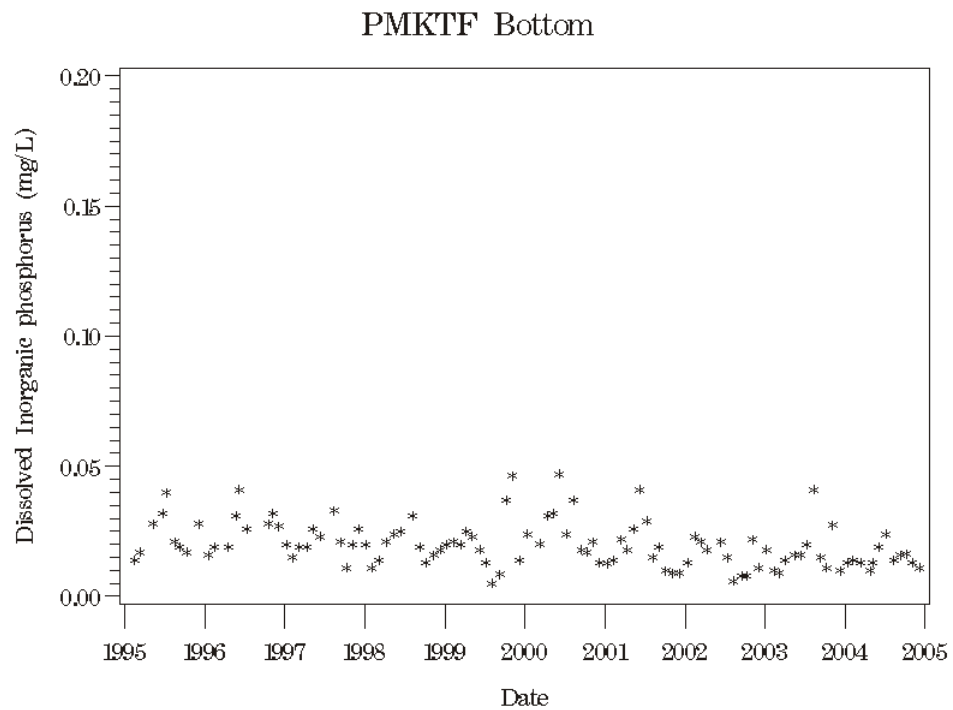


Figure 14. Scatterplots of bottom dissolved inorganic phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

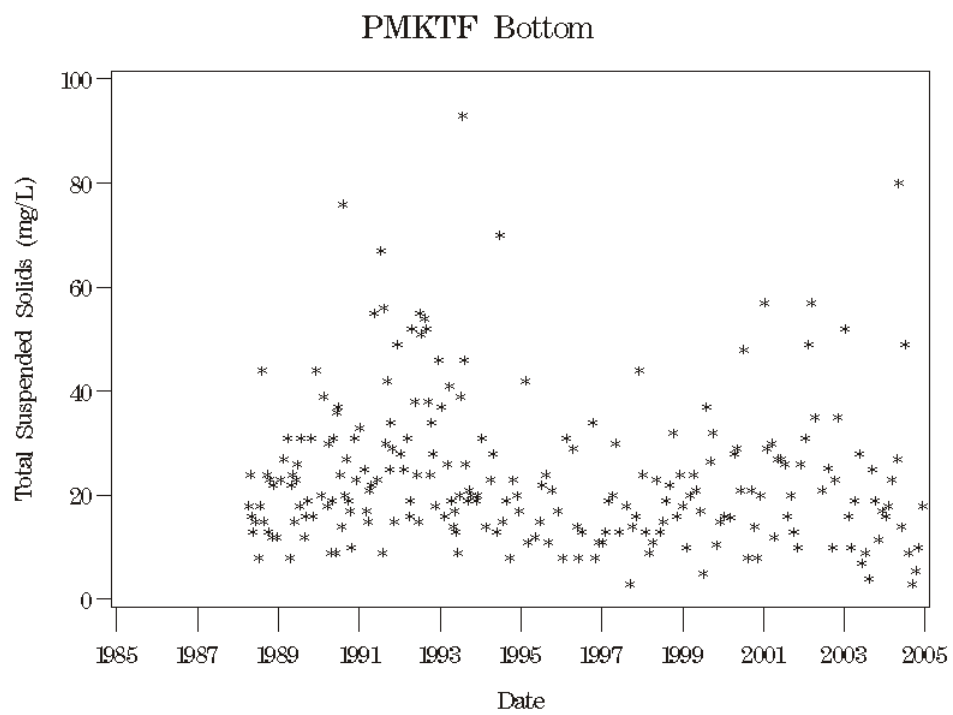


Figure 15. Scatterplot of bottom total suspended solids at segment PMKTF during the period 1985 to 2004.

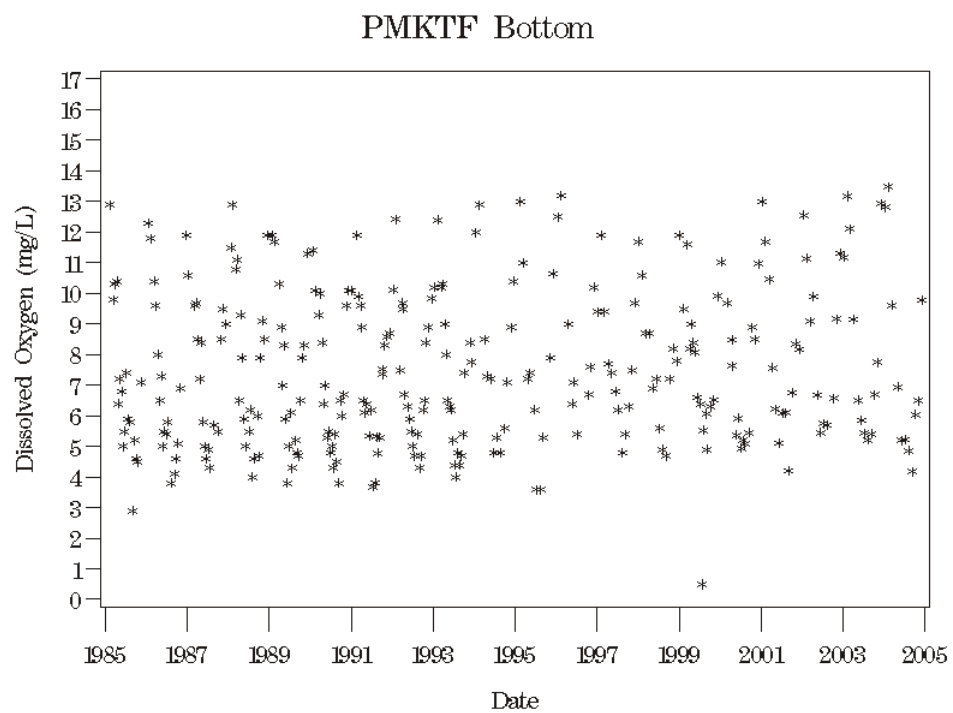


Figure 16. Scatterplot of bottom dissolved oxygen at segment PMKTF during the period 1985 to 2004.

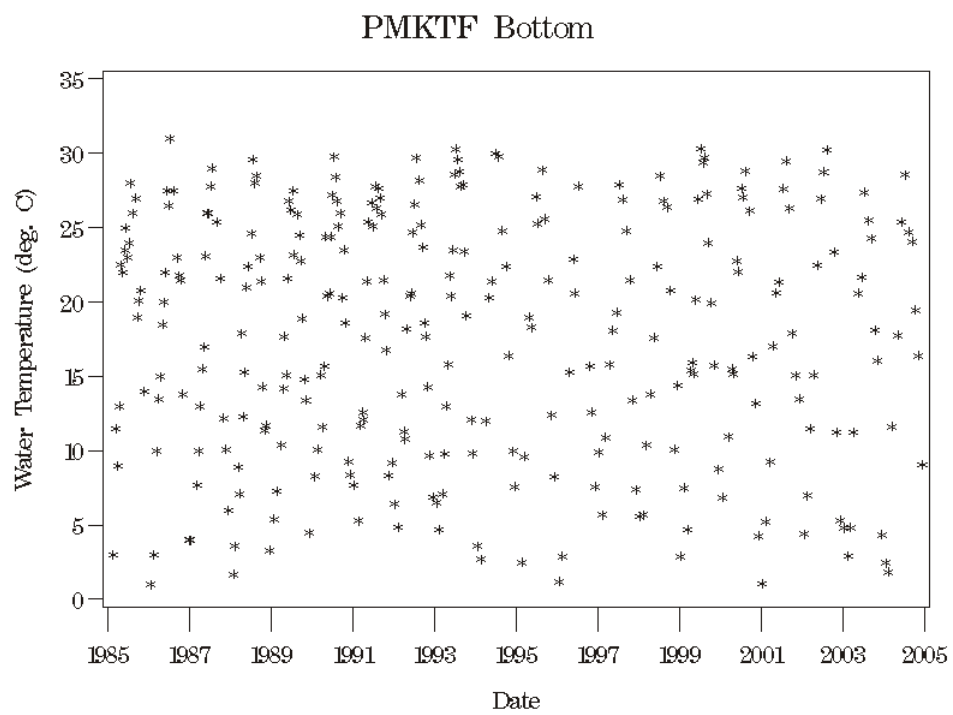


Figure 17. Scatterplot of bottom water temperature at segment PMKTF during the period 1985 to 2004.

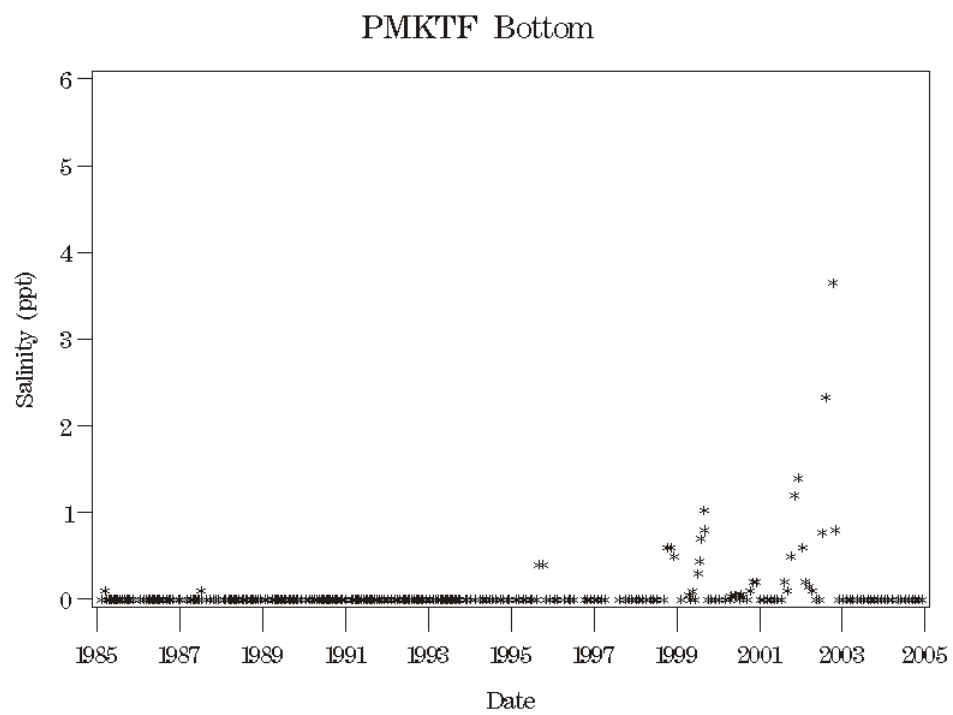
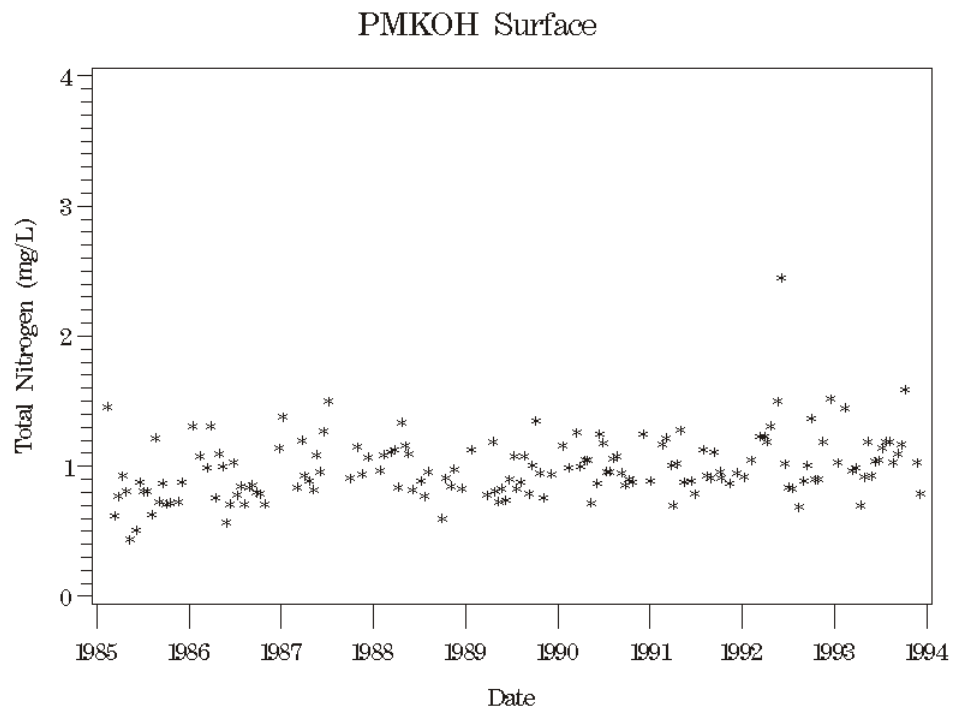


Figure 18. Scatterplot of bottom salinity at segment PMKTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

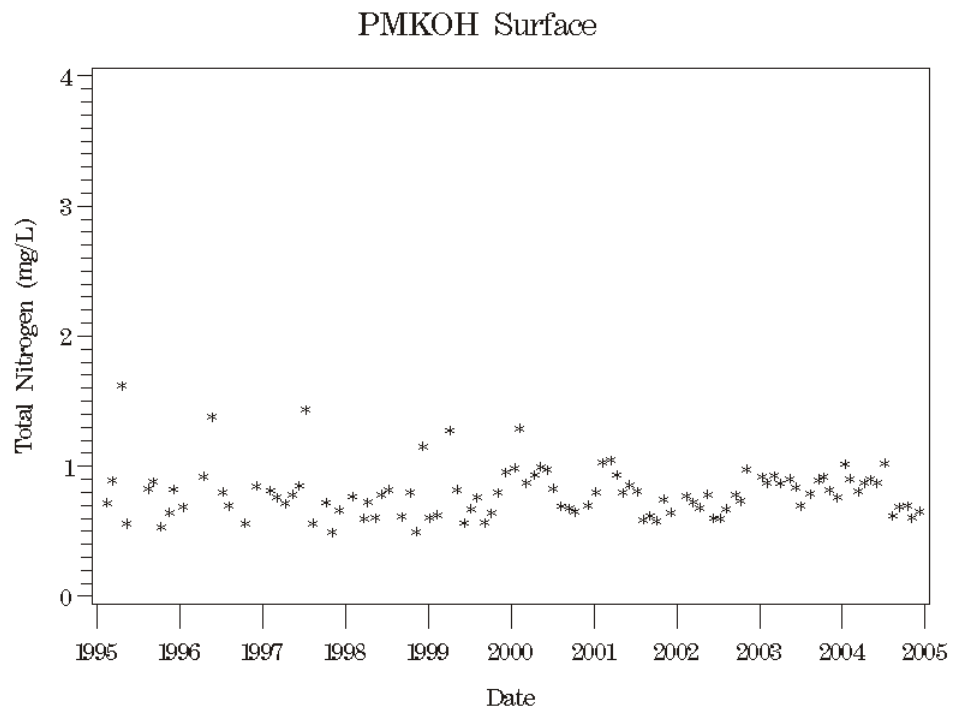
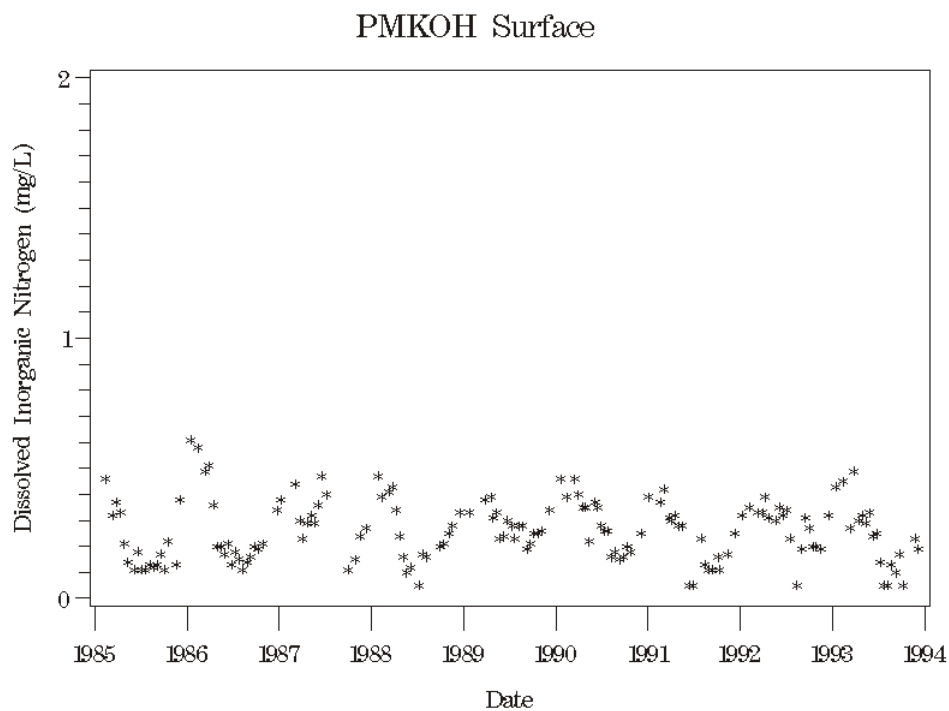


Figure 19. Scatterplots of surface total nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

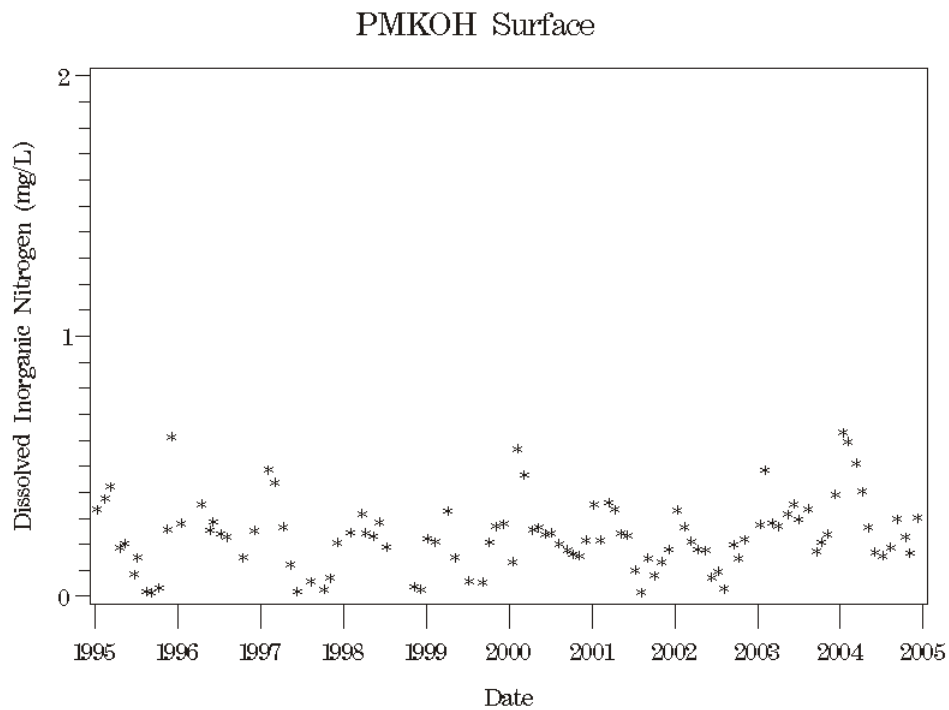
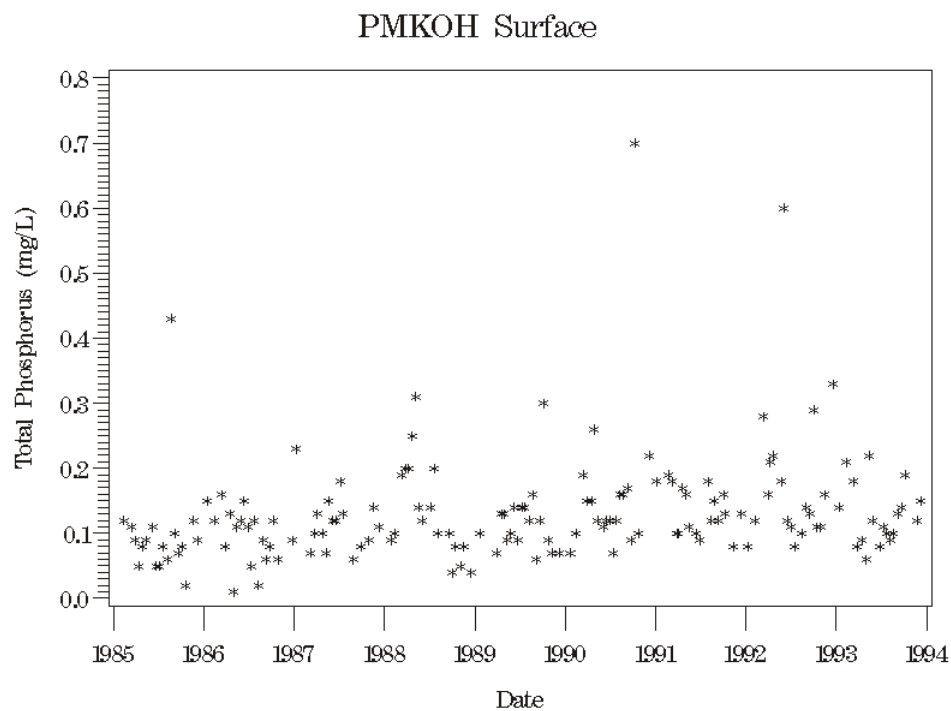


Figure 20. Scatterplots of surface dissolved inorganic nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

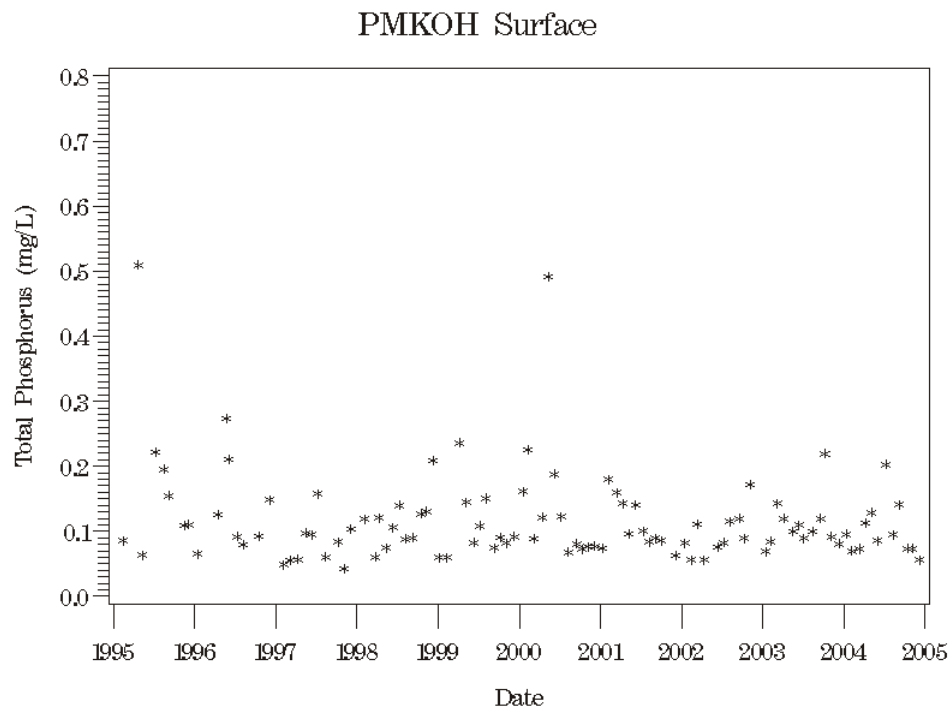
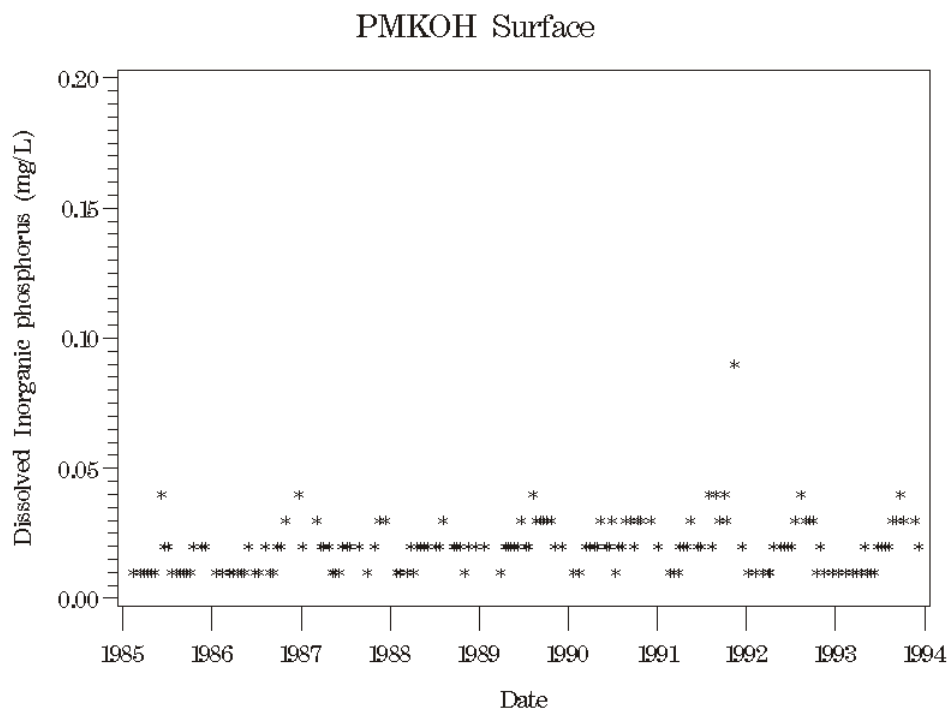


Figure 21. Scatterplots of surface total phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

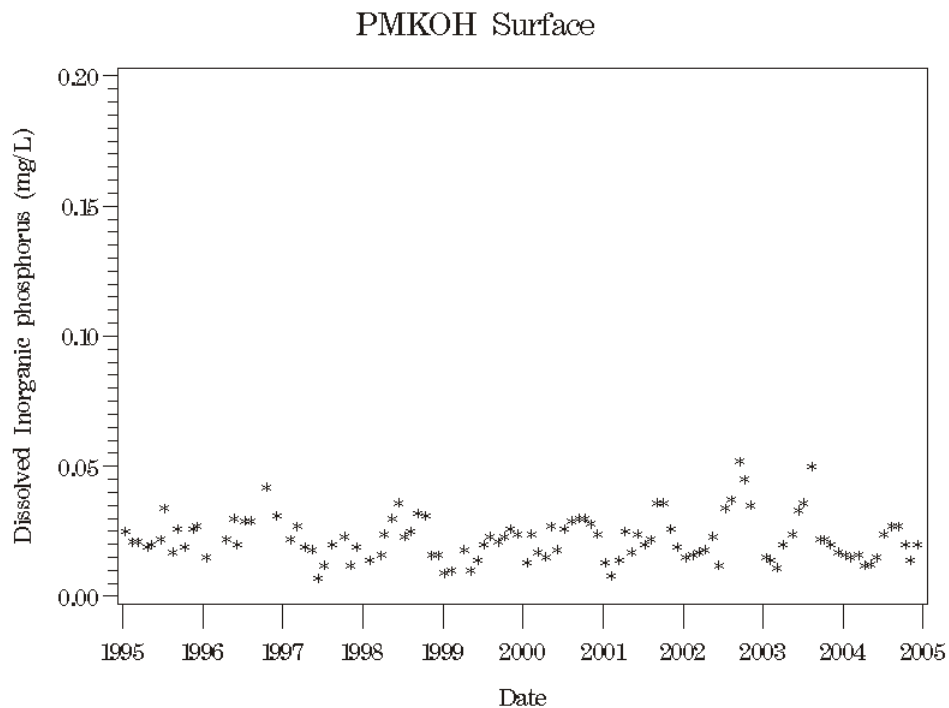


Figure 22. Scatterplots of surface dissolved inorganic phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

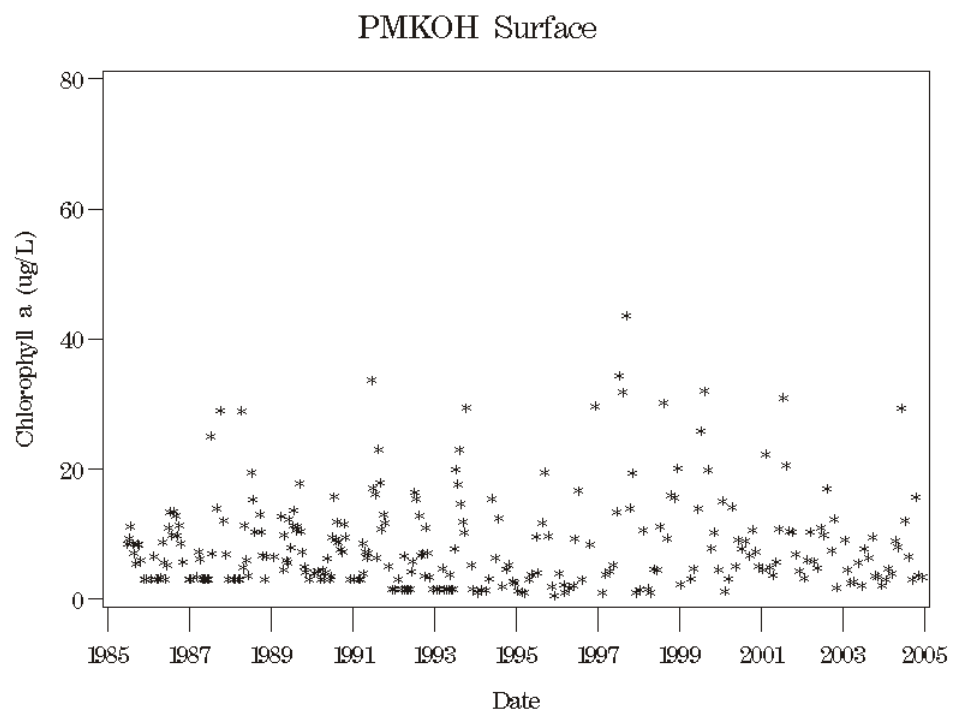


Figure 23. Scatterplot of surface chlorophyll *a* at segment PMKOH during the period 1985 to 2004.

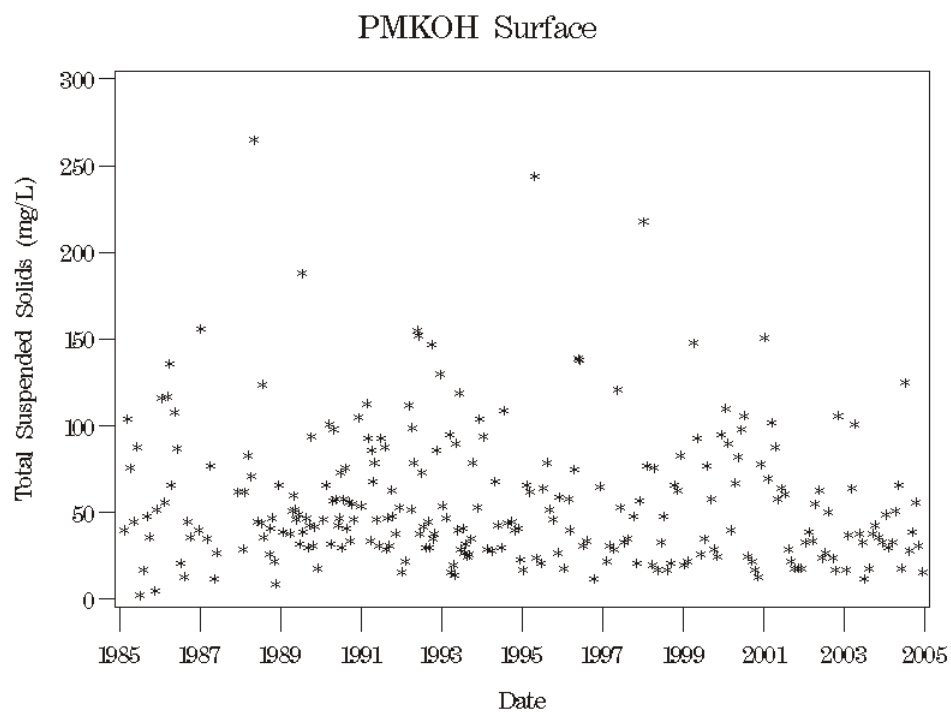


Figure 24. Scatterplot of surface total suspended solids at segment PMKOH during the period 1985 to 2004.

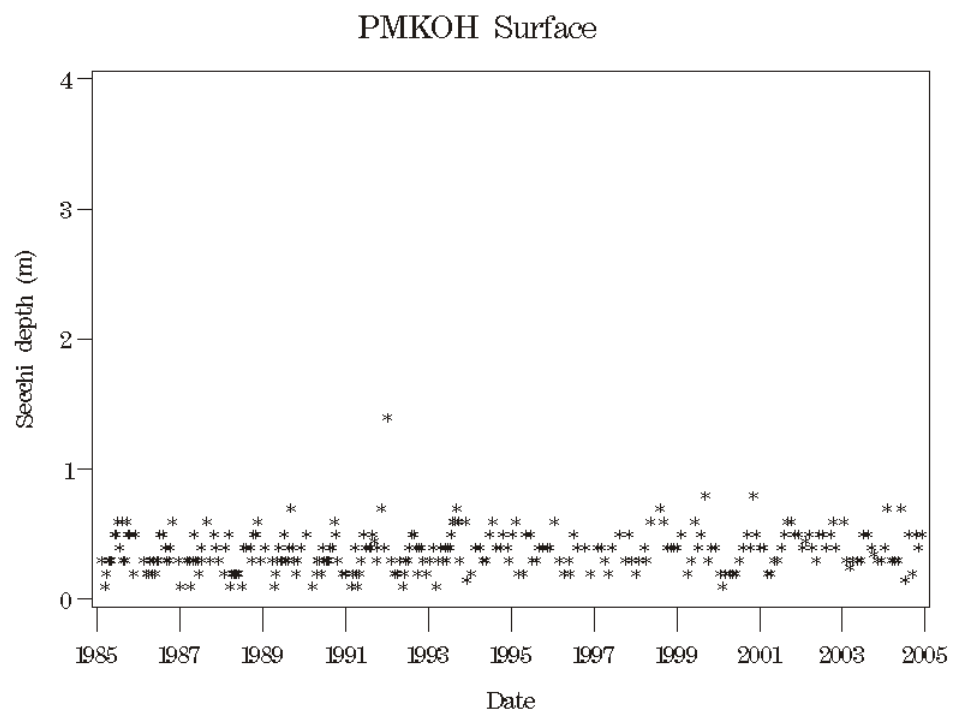


Figure 25. Scatterplot of secchi depth at segment PMKOH during the period 1985 to 2004.

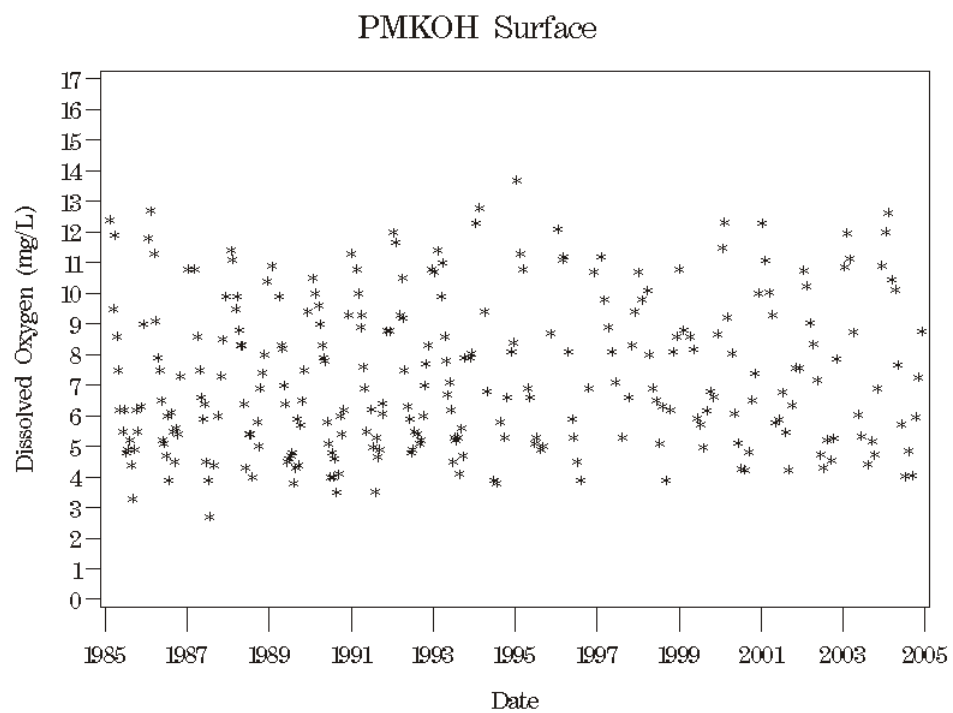


Figure 26. Scatterplot of surface dissolved oxygen at segment PMKOH during the period 1985 to 2004.

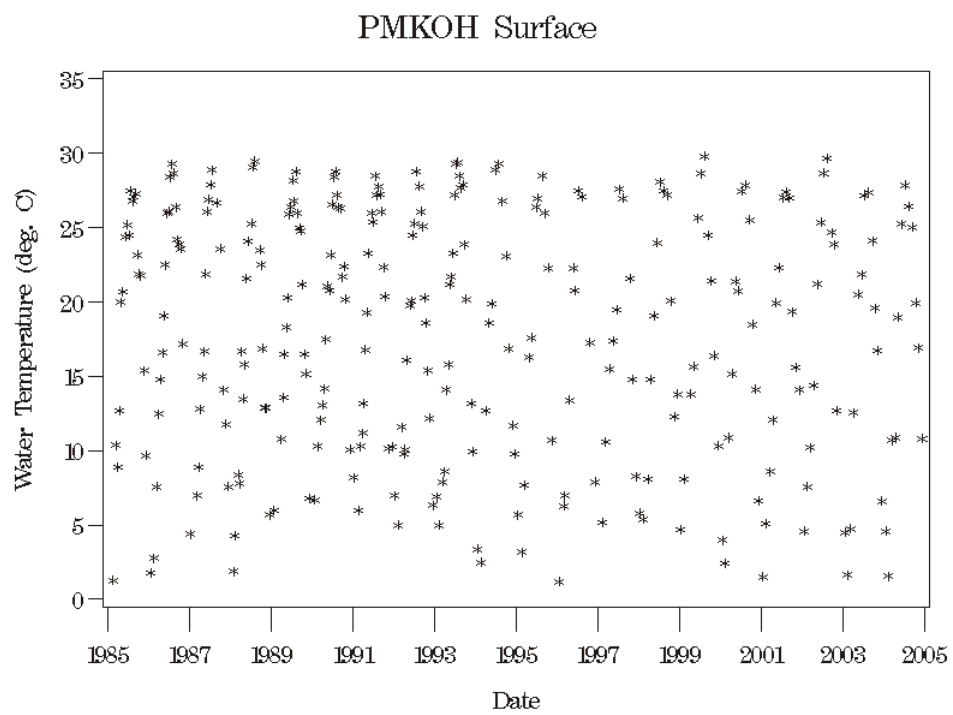


Figure 27. Scatterplot of surface water temperature at segment PMKOH during the period 1985 to 2004.

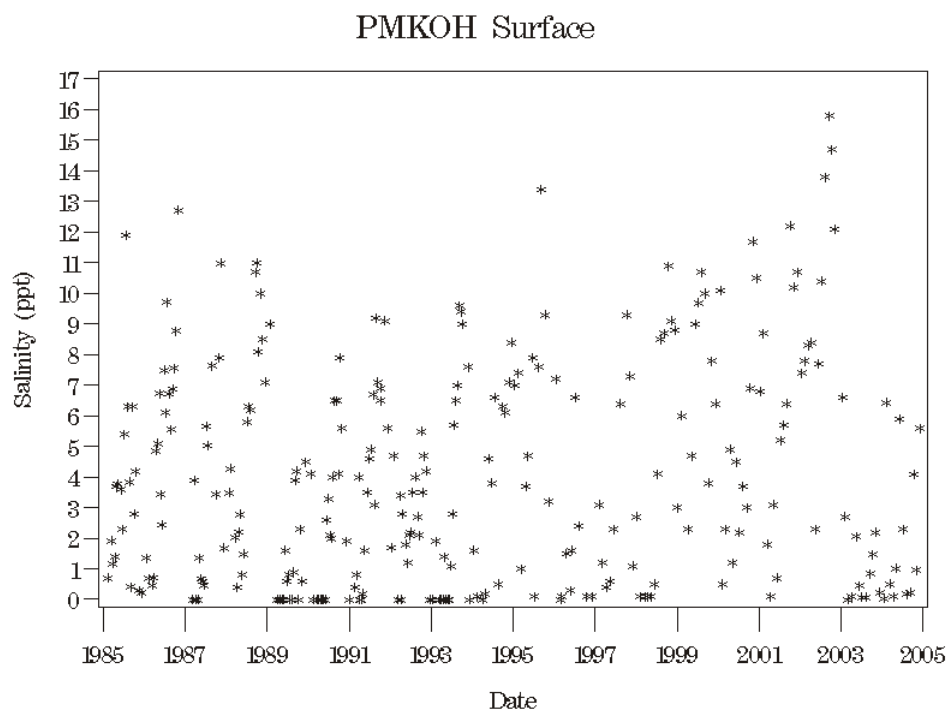
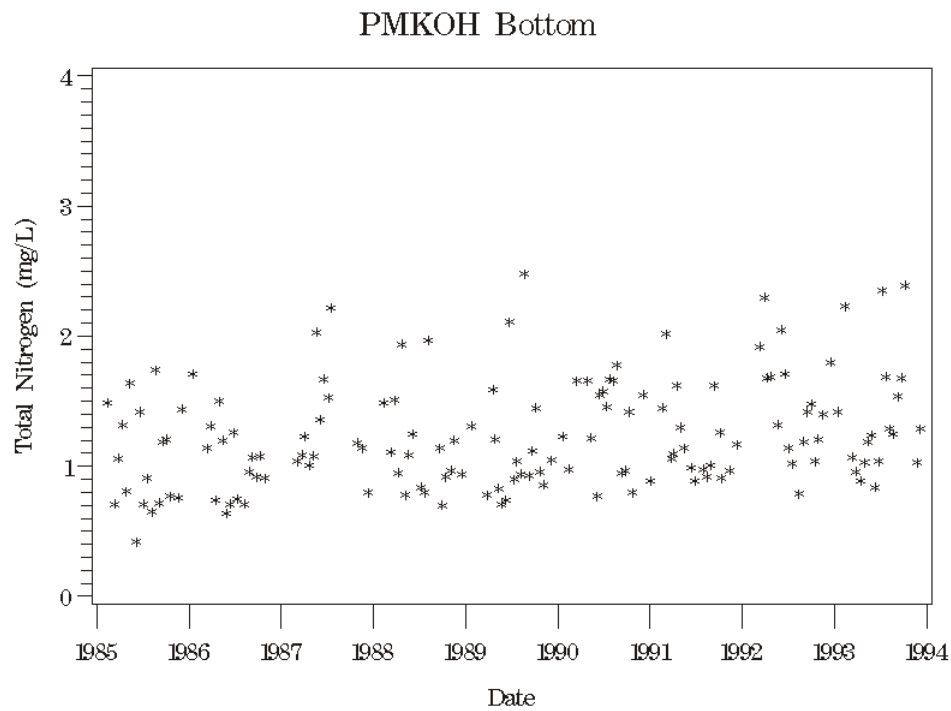


Figure 28. Scatterplot of surface salinity at segment PMKOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

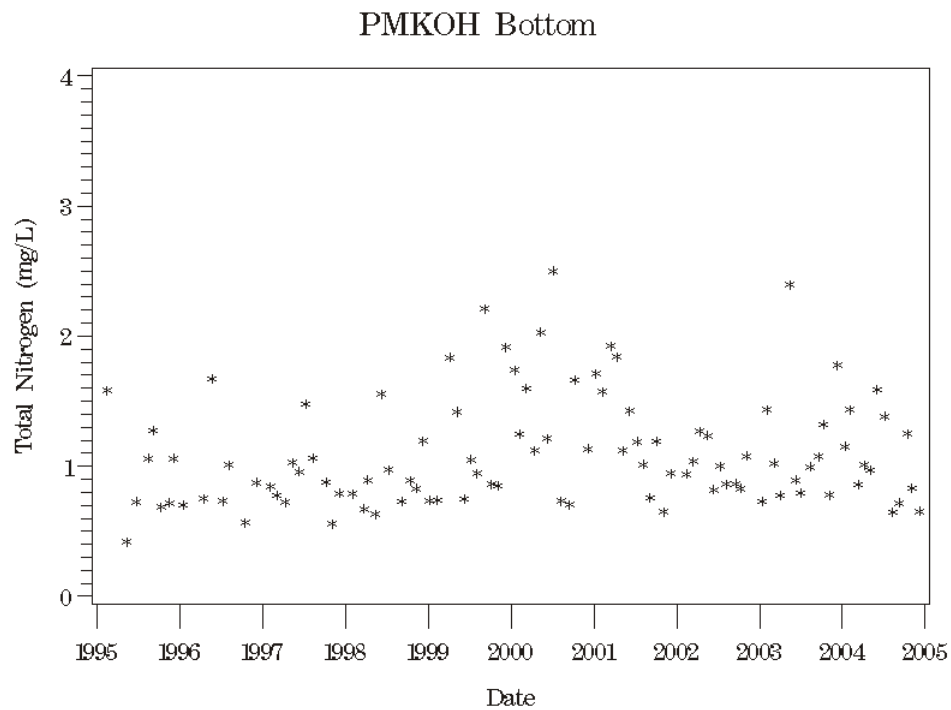
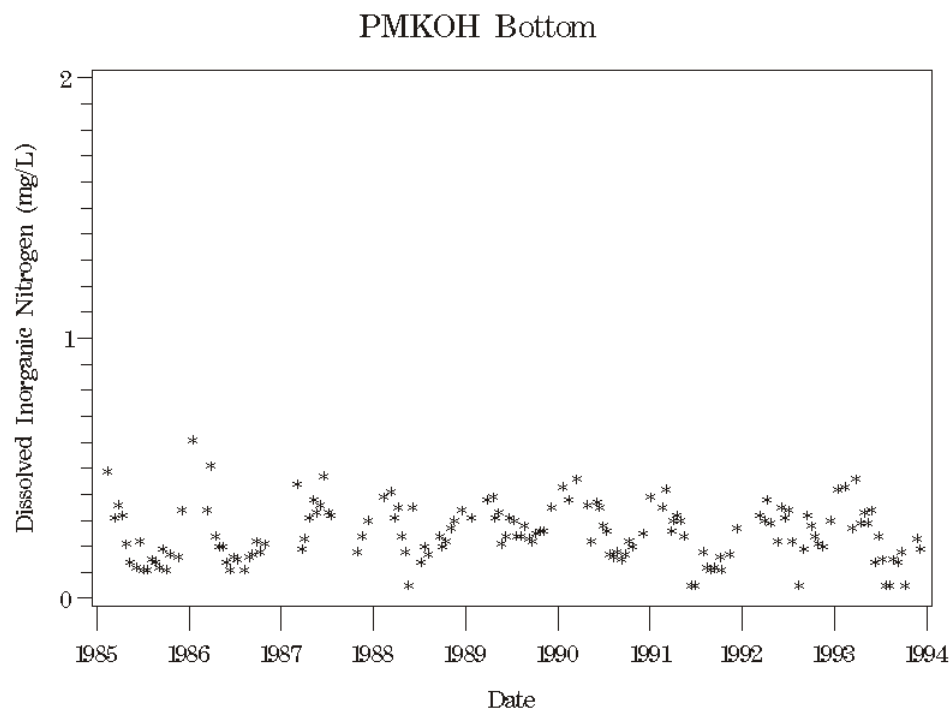


Figure 29. Scatterplots of bottom total nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

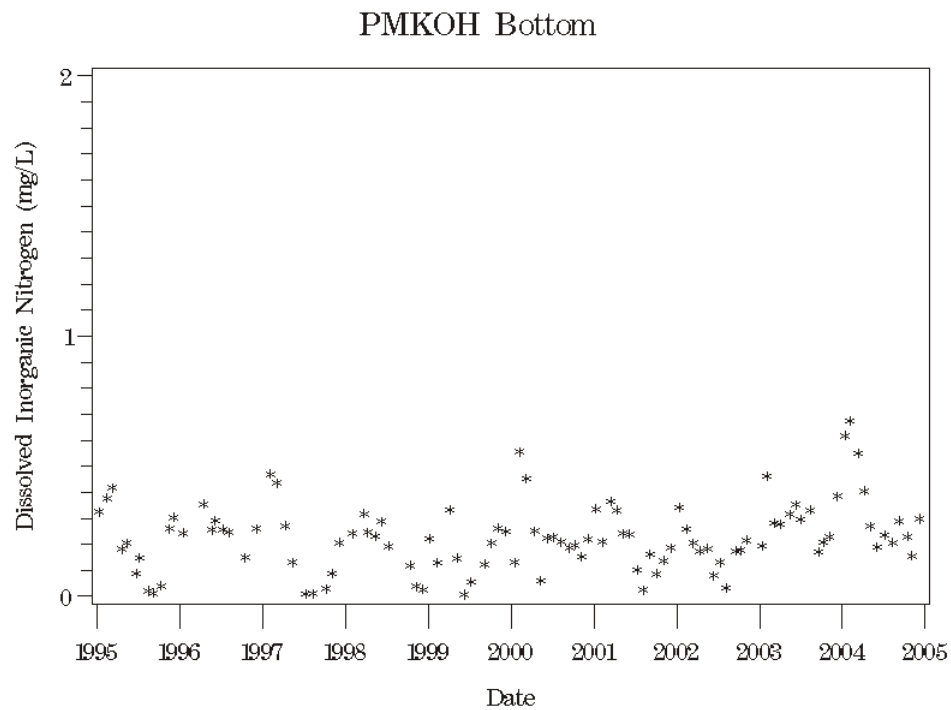
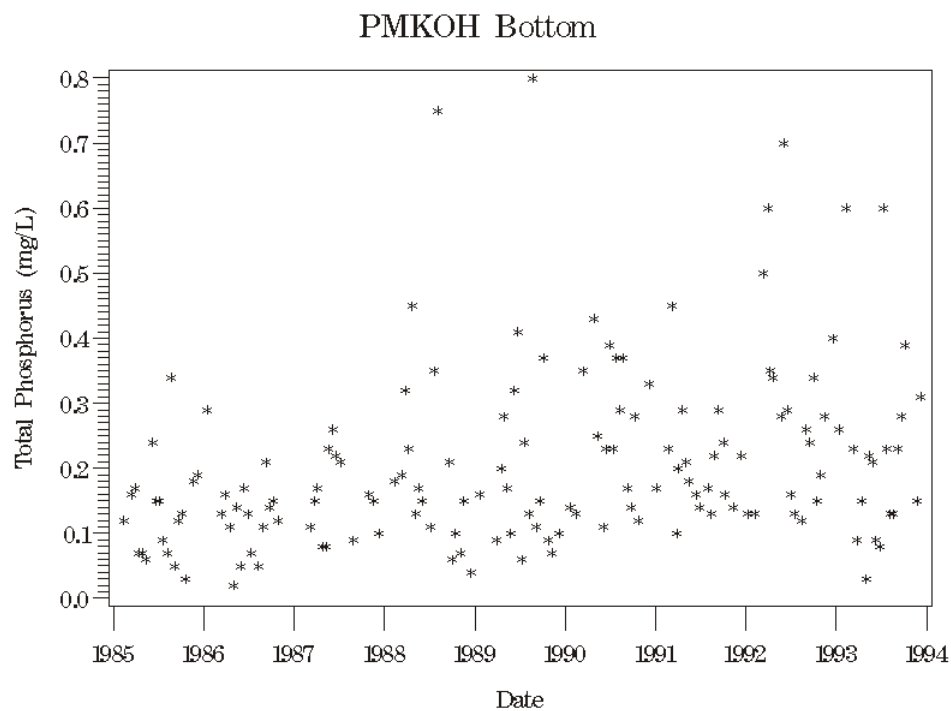


Figure 30. Scatterplots of bottom dissolved inorganic nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

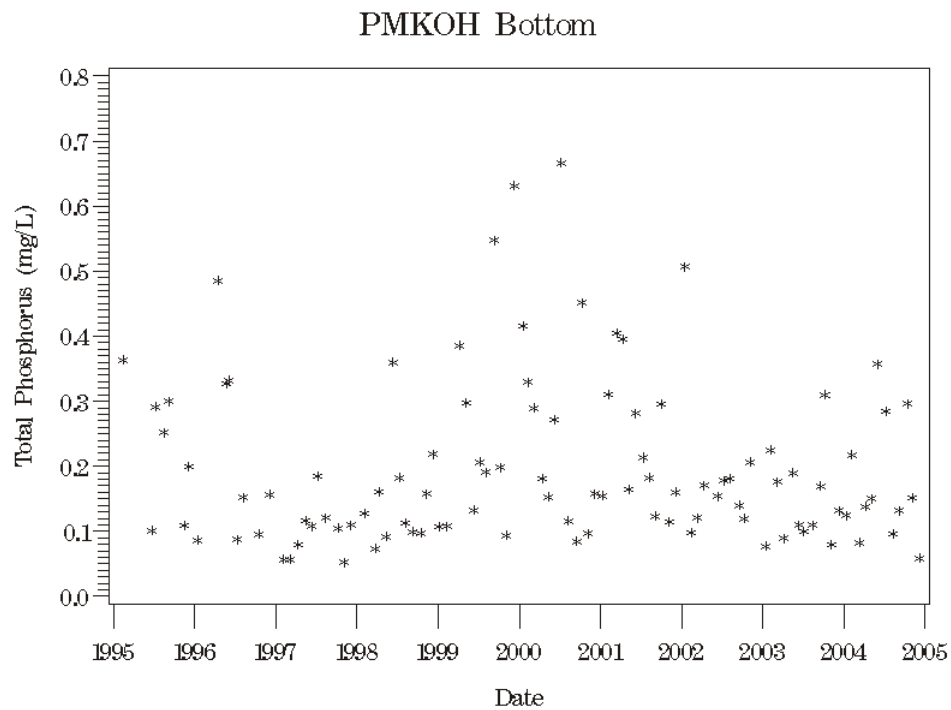
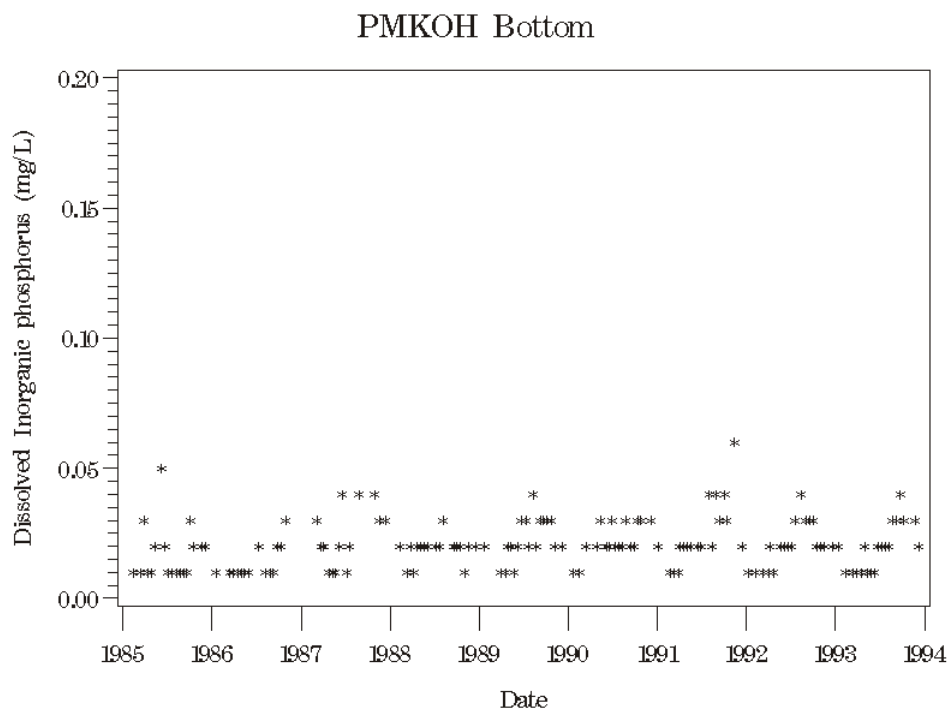


Figure 31. Scatterplots of bottom total phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

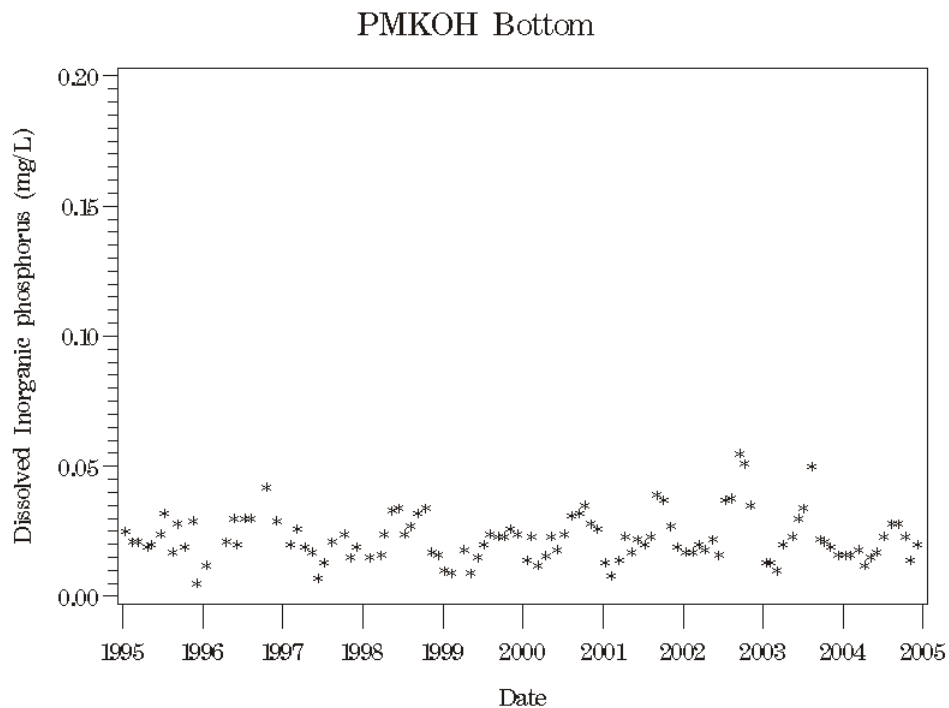


Figure 32. Scatterplots of bottom dissolved inorganic phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

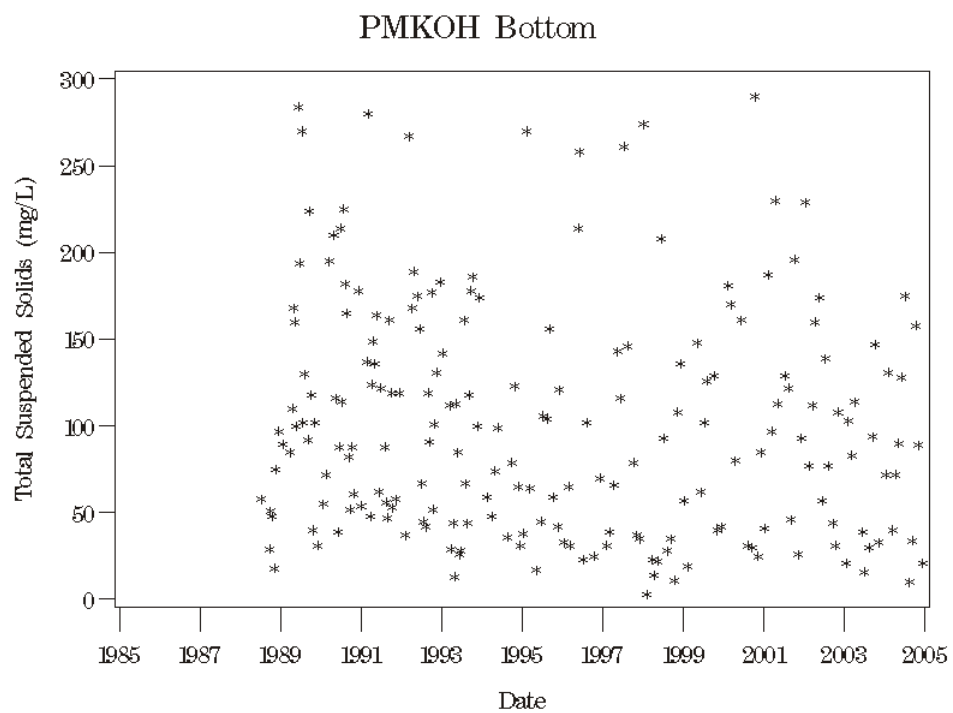


Figure 33. Scatterplot of bottom total suspended solids at segment PMKOH during the period 1985 to 2004.

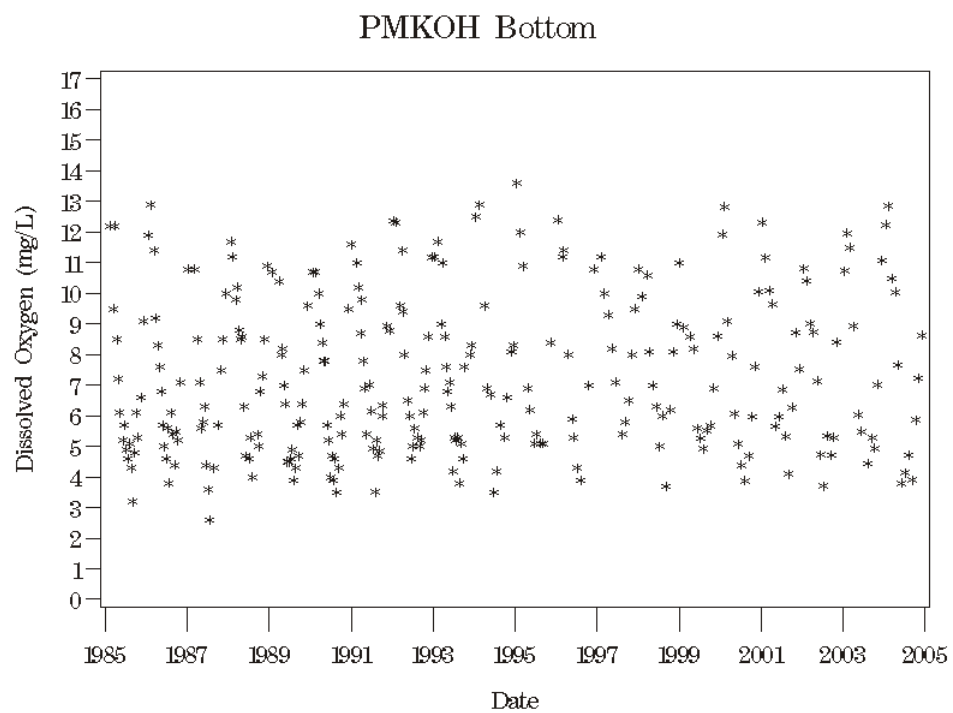


Figure 34. Scatterplot of bottom dissolved oxygen at segment PMKOH during the period 1985 to 2004.

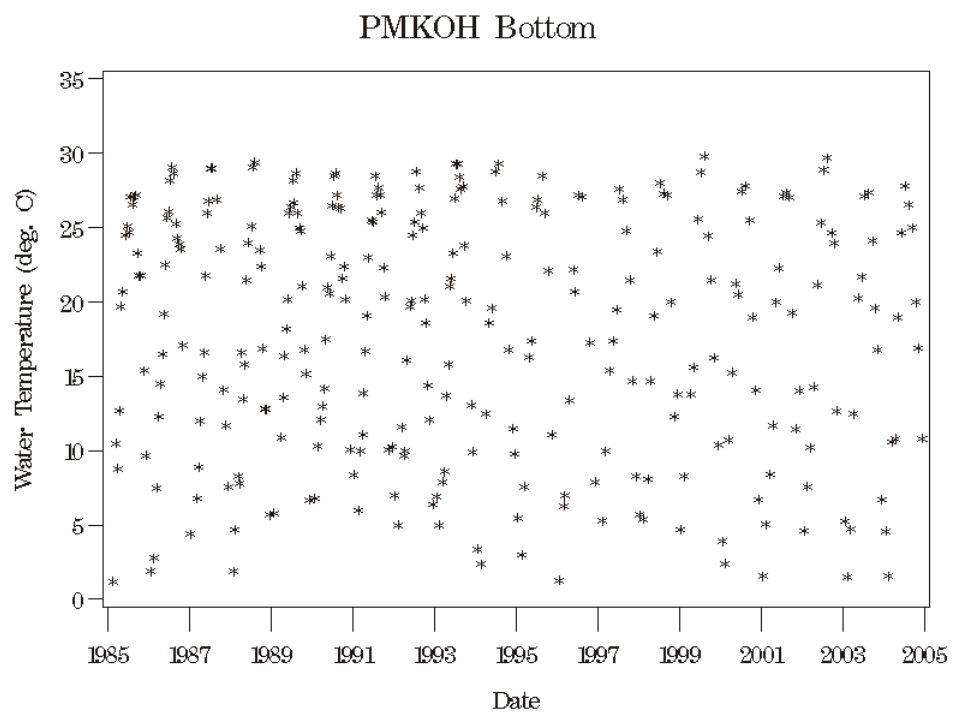


Figure 35. Scatterplot of bottom water temperature at segment PMKOH during the period 1985 to 2004.

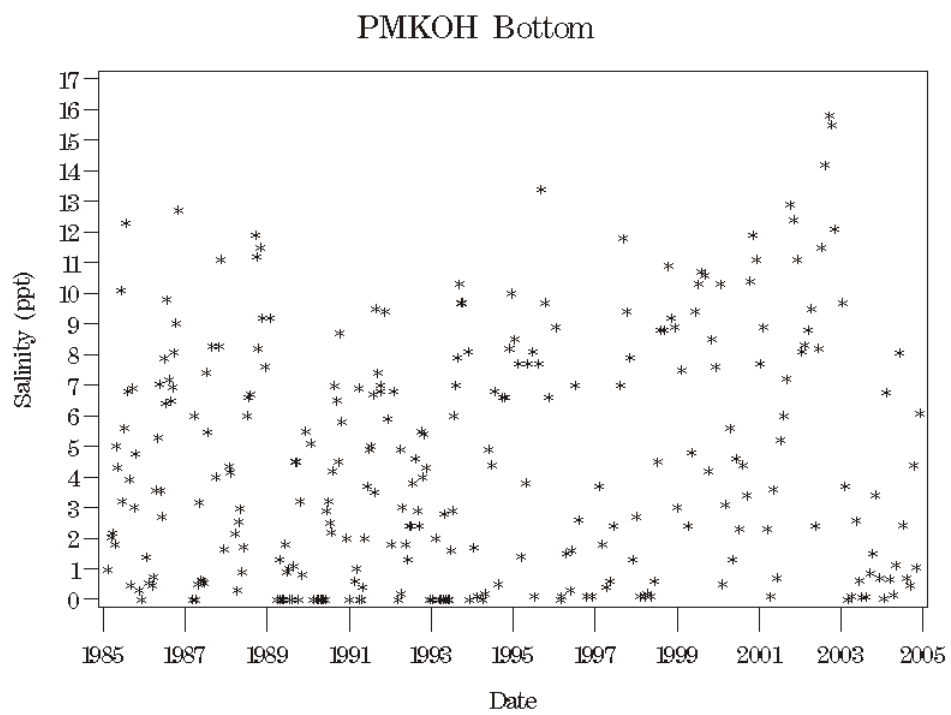
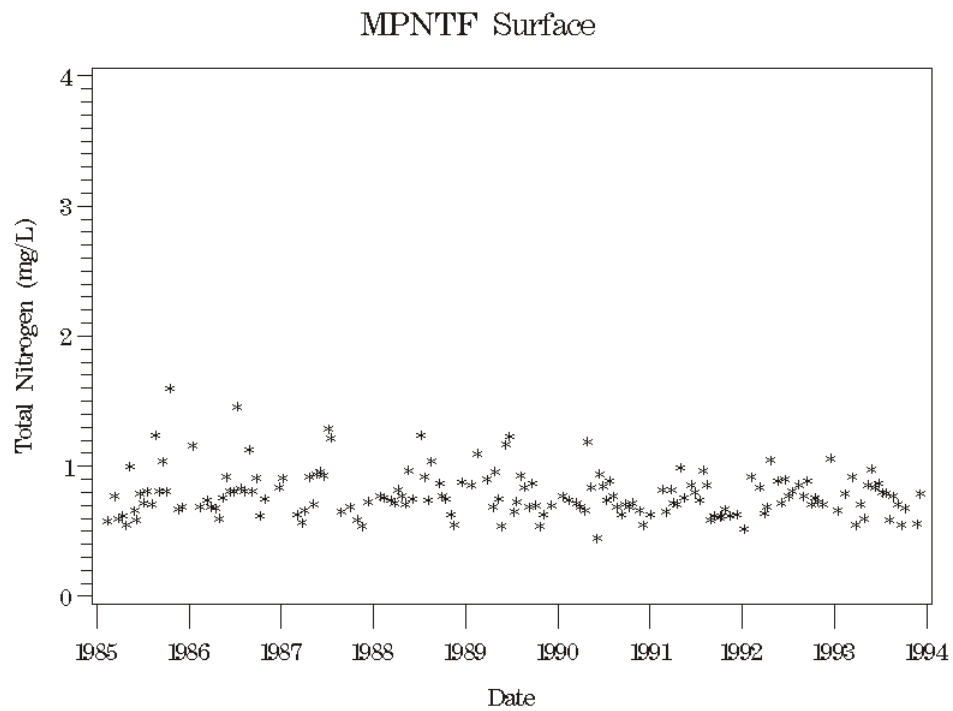


Figure 36. Scatterplot of bottom salinity at segment PMKOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

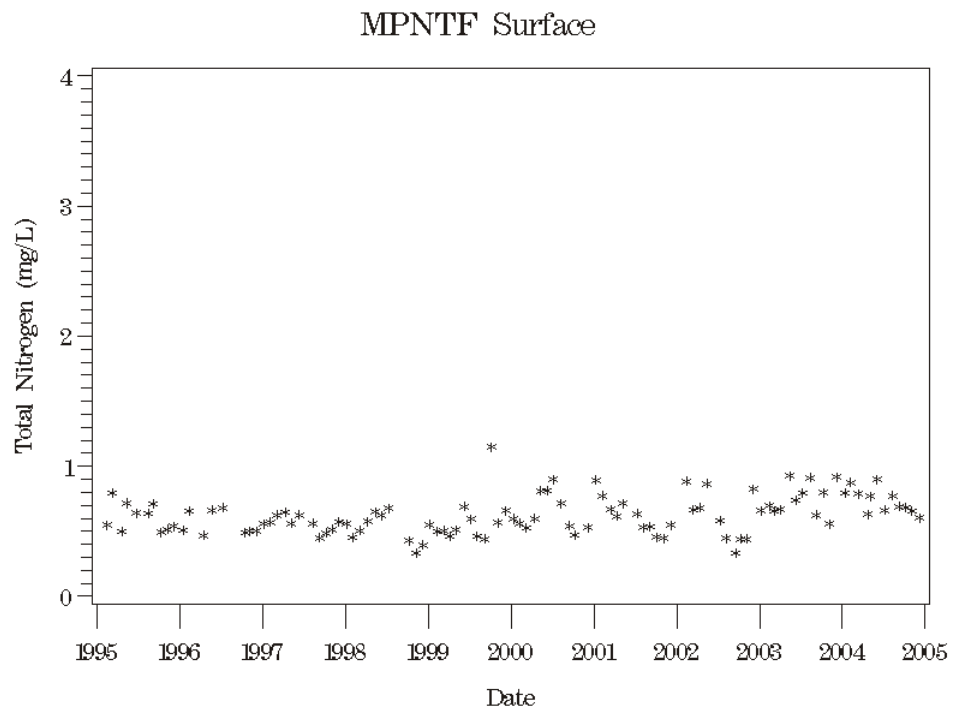
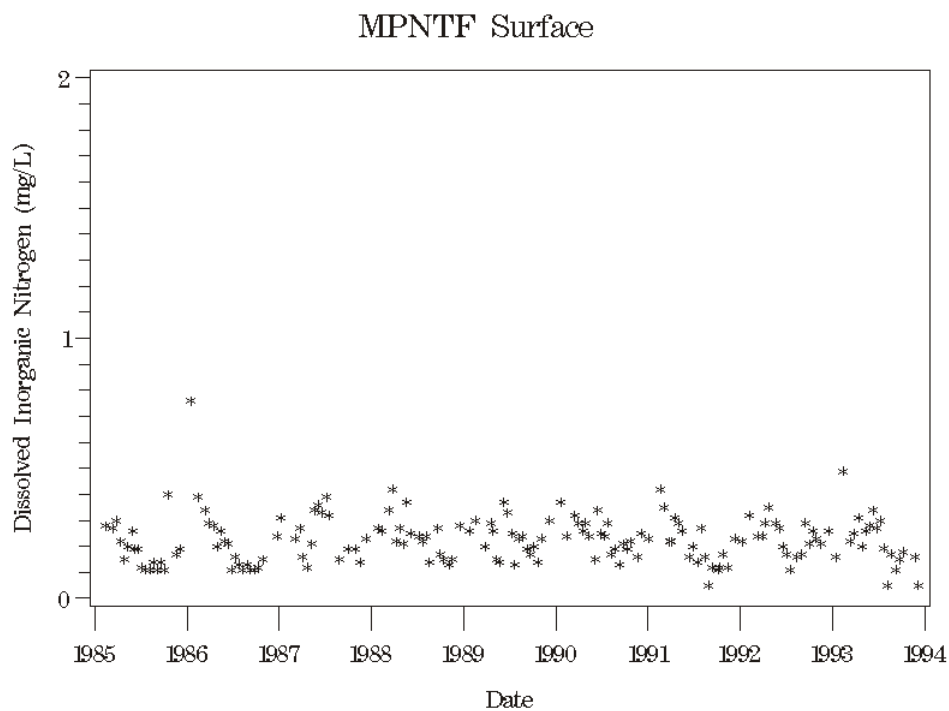


Figure 37. Scatterplots of surface total nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

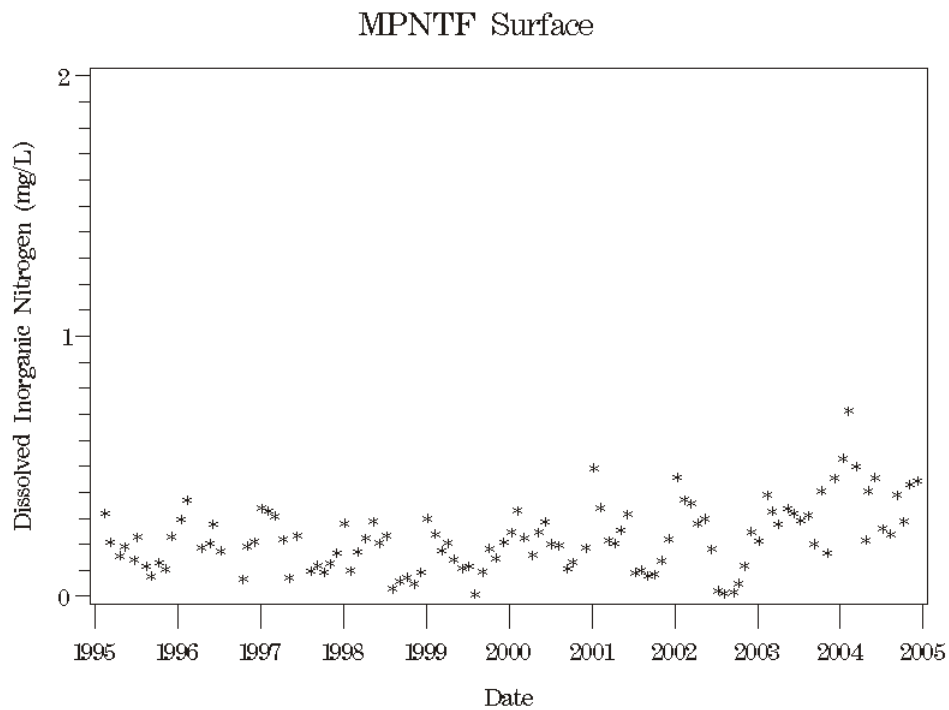
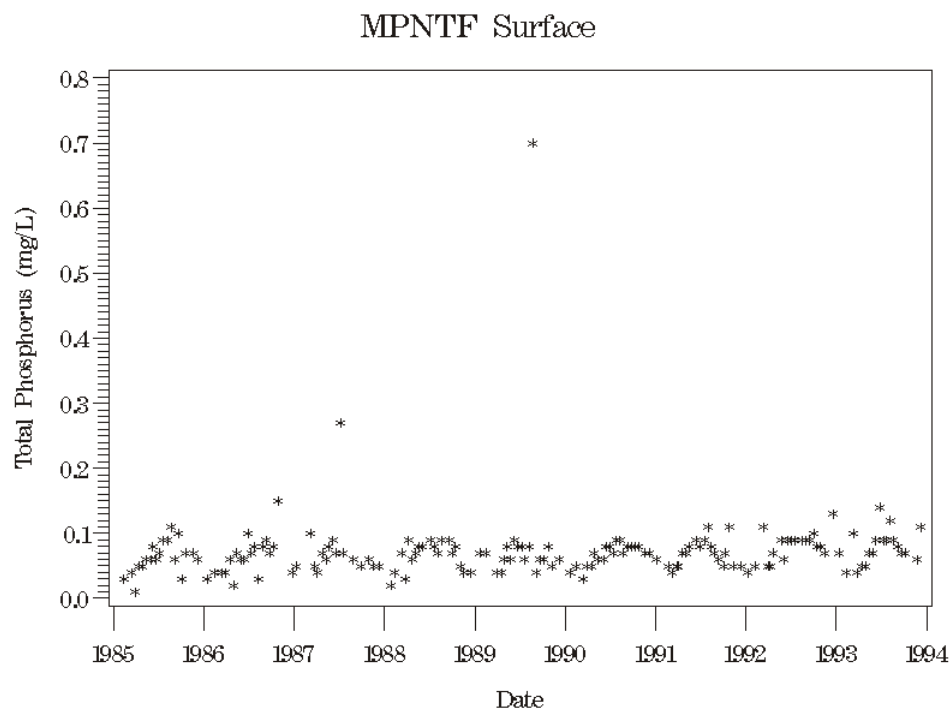


Figure 38. Scatterplots of surface dissolved inorganic nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

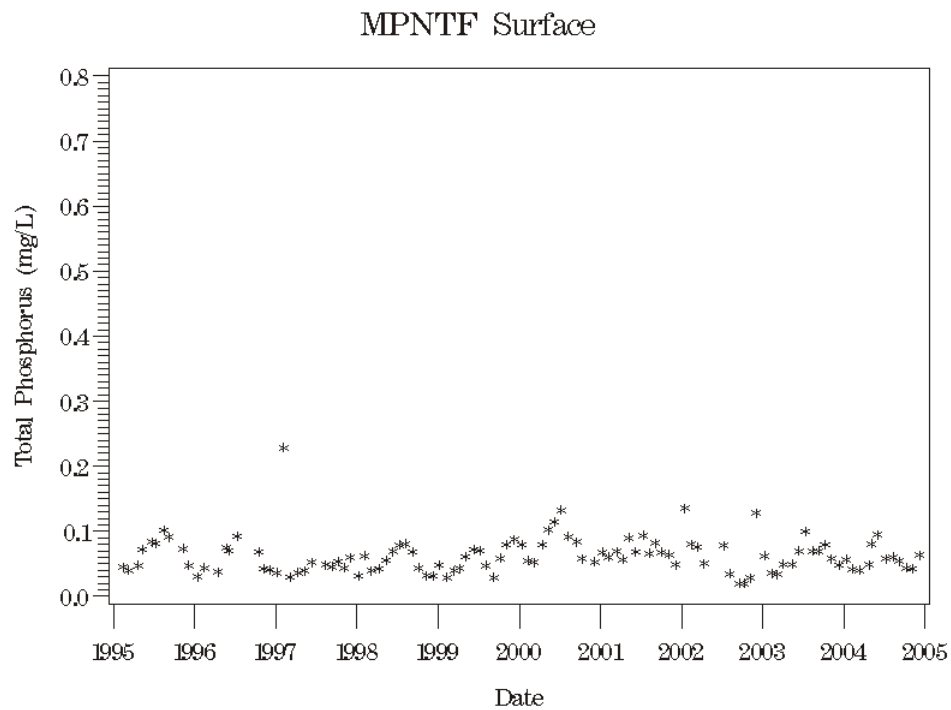
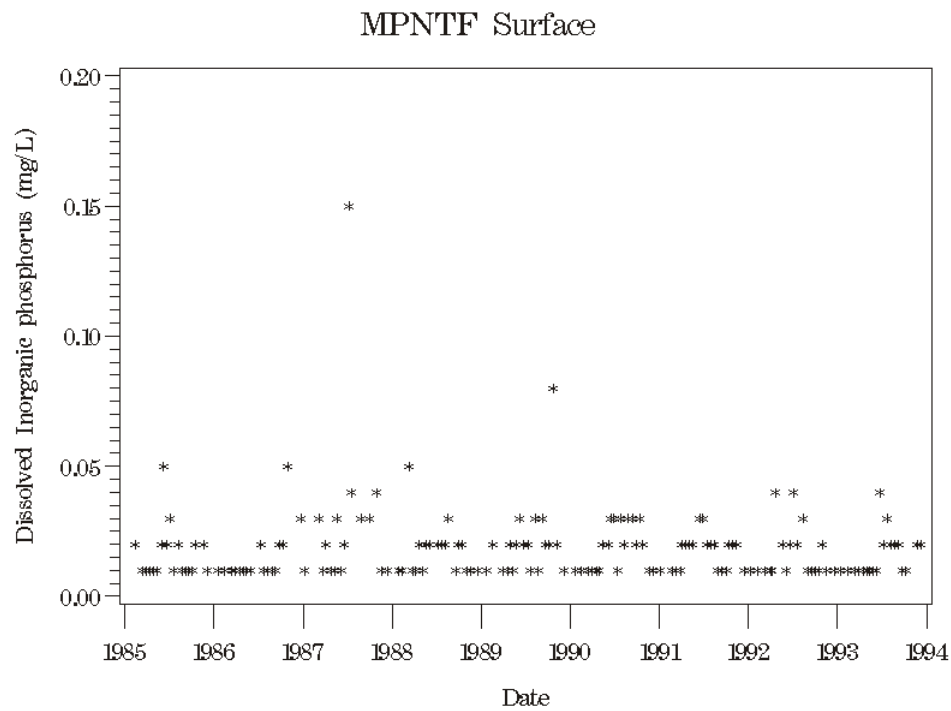


Figure 39. Scatterplots of surface total phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

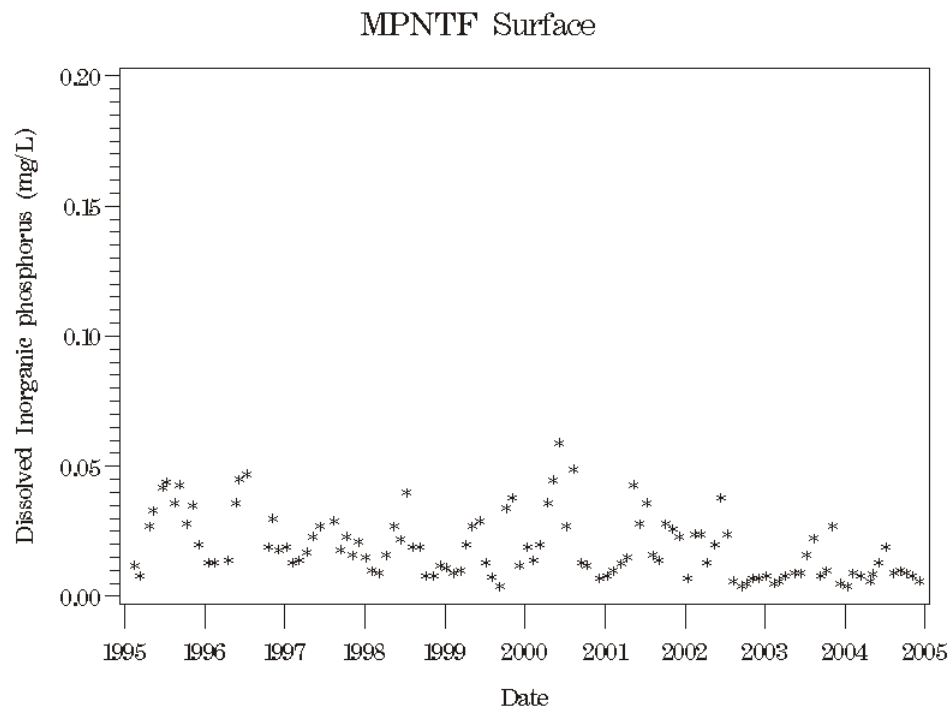


Figure 40. Scatterplots of surface dissolved inorganic phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

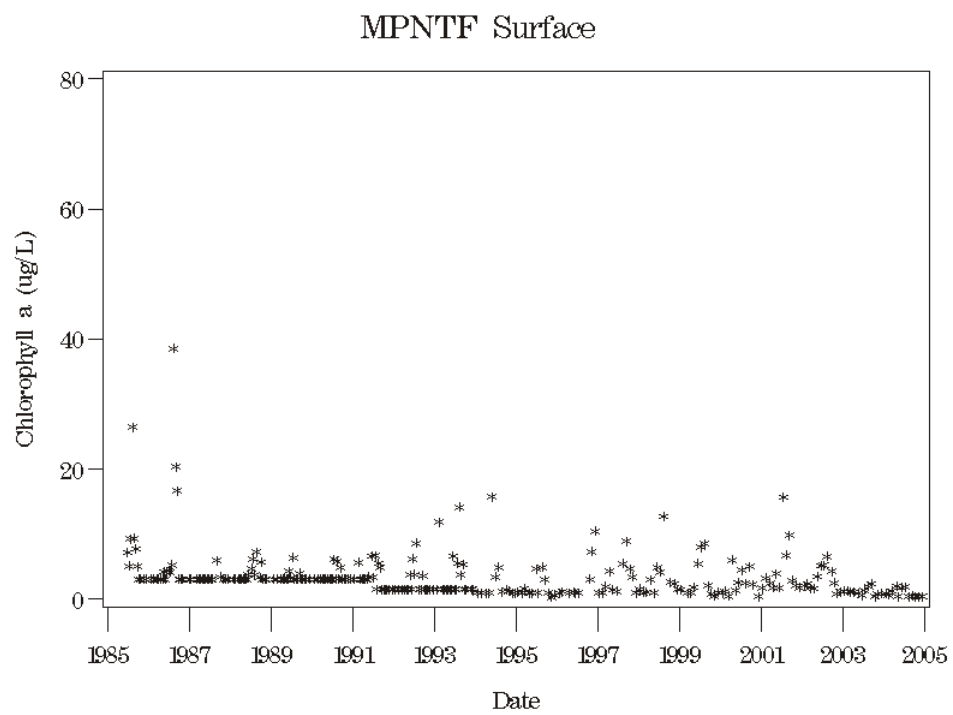


Figure 41. Scatterplot of surface chlorophyll *a* at segment MPNTF during the period 1985 to 2004.

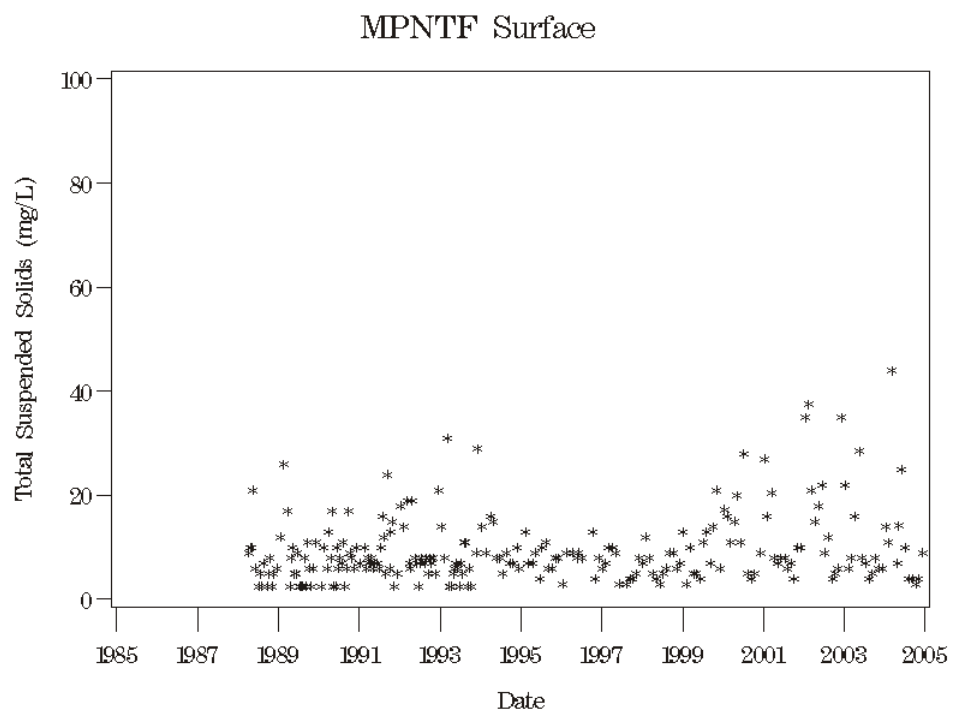


Figure 42. Scatterplot of surface total suspended solids at segment MPNTF during the period 1985 to 2004.

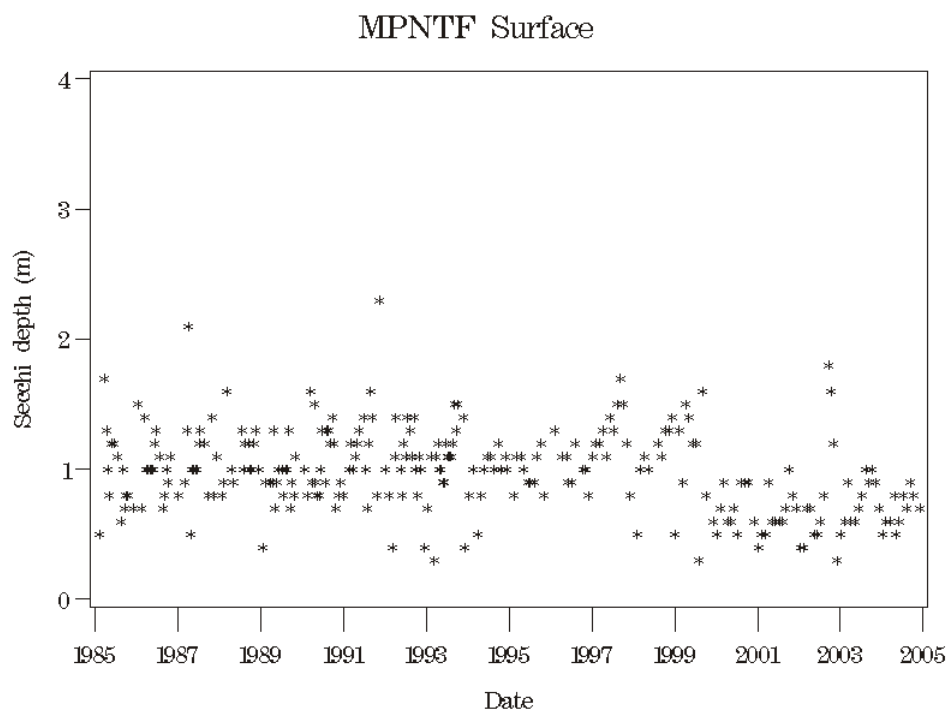


Figure 43. Scatterplot of secchi depth at segment MPNTF during the period 1985 to 2004.

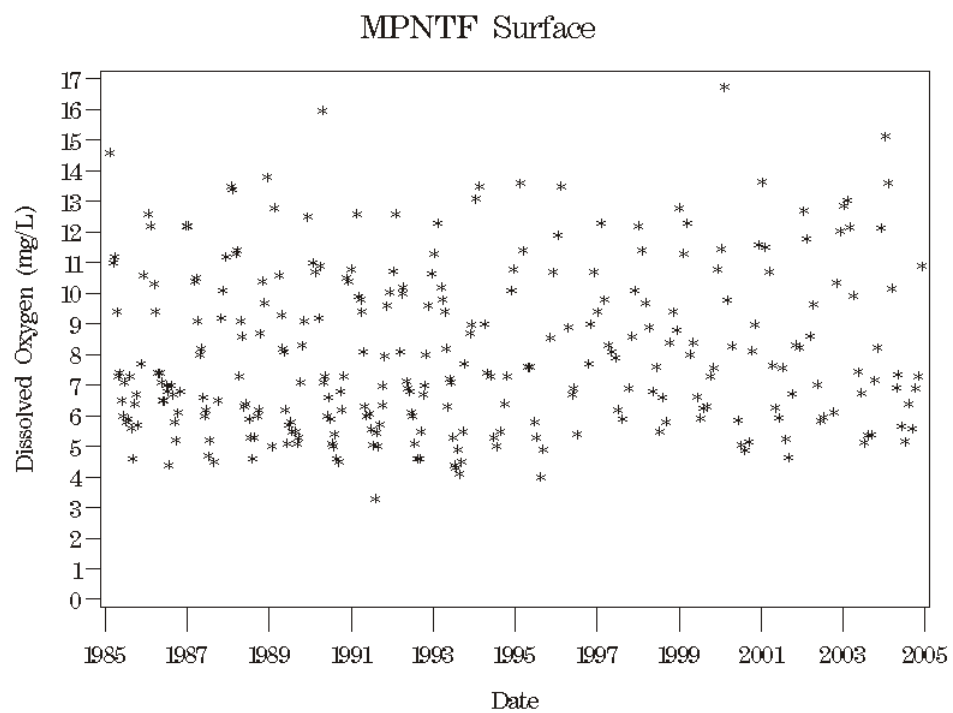


Figure 44. Scatterplot of surface dissolved oxygen at segment MPNTF during the period 1985 to 2004.

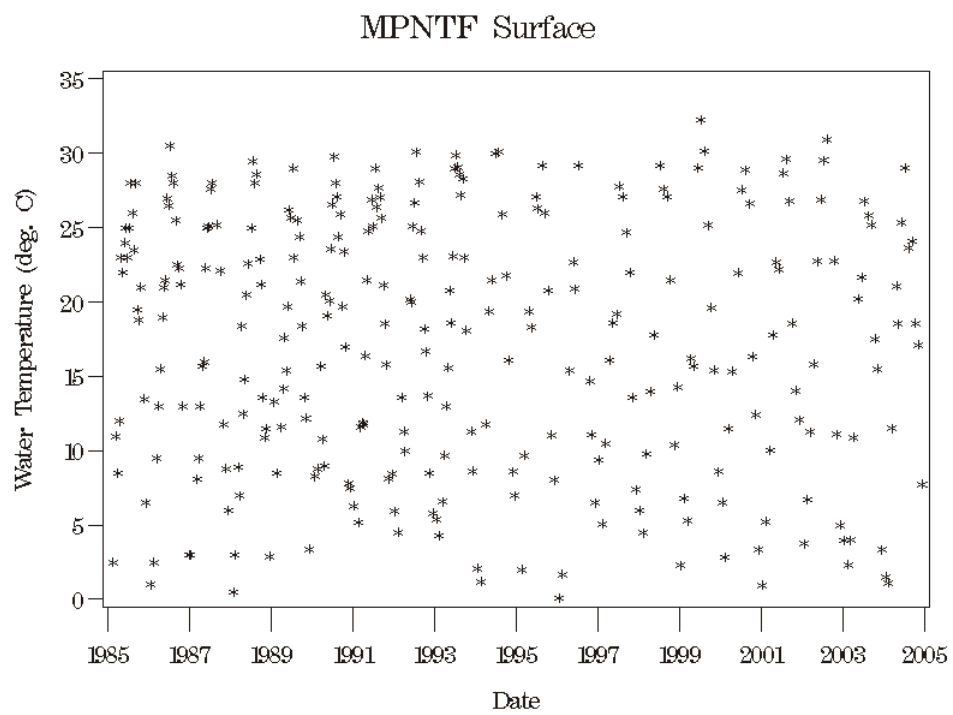


Figure 45. Scatterplot of surface water temperature at segment MPNTF during the period 1985 to 2004.

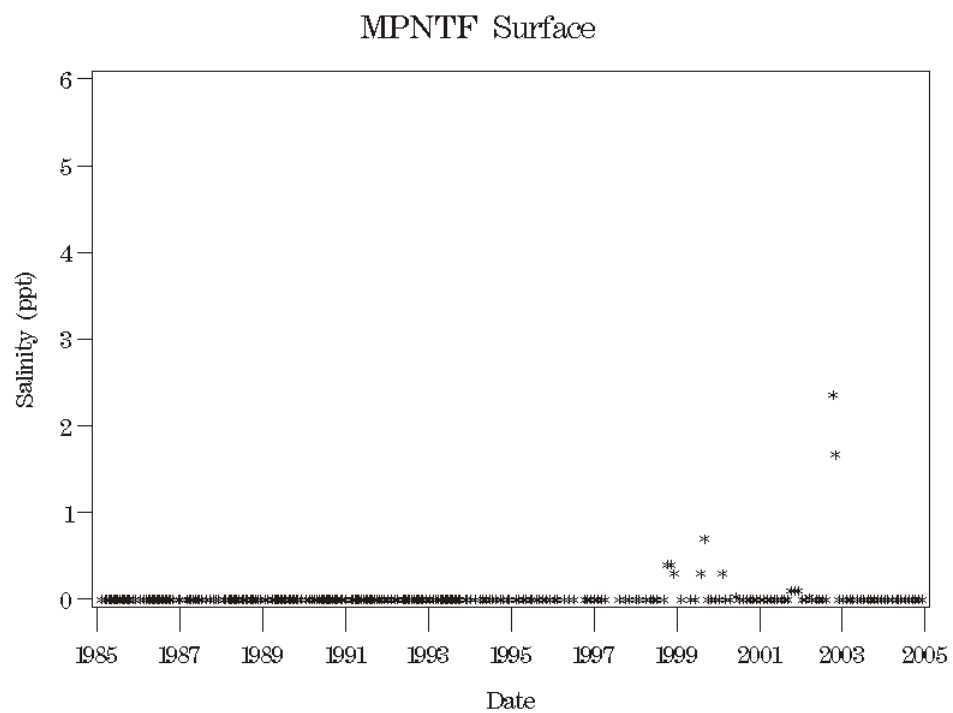
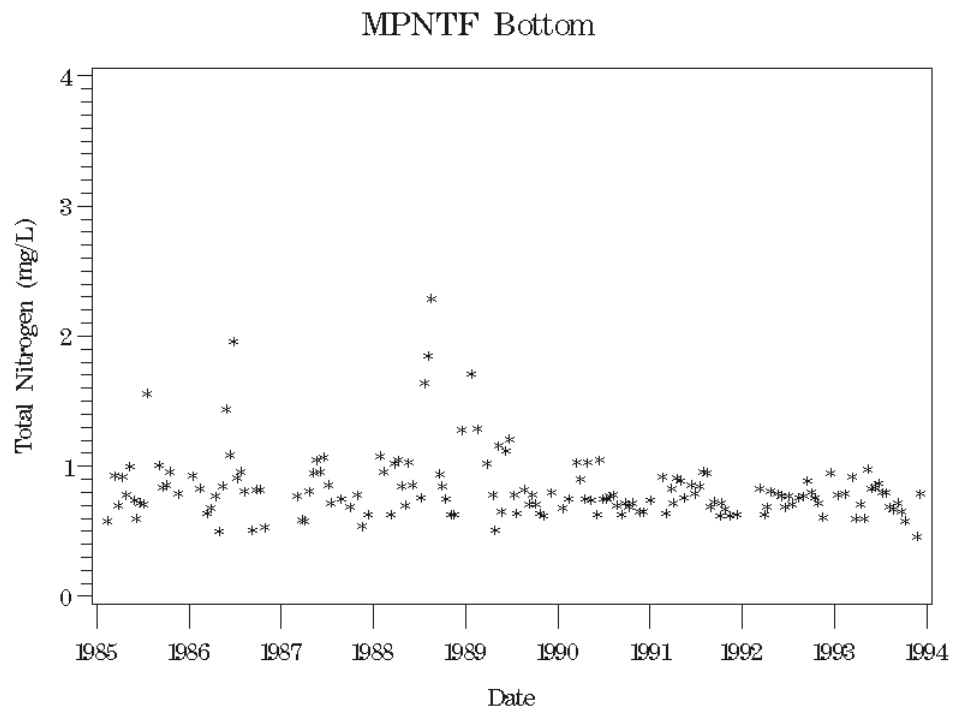


Figure 46. Scatterplot of surface salinity at segment MPNTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

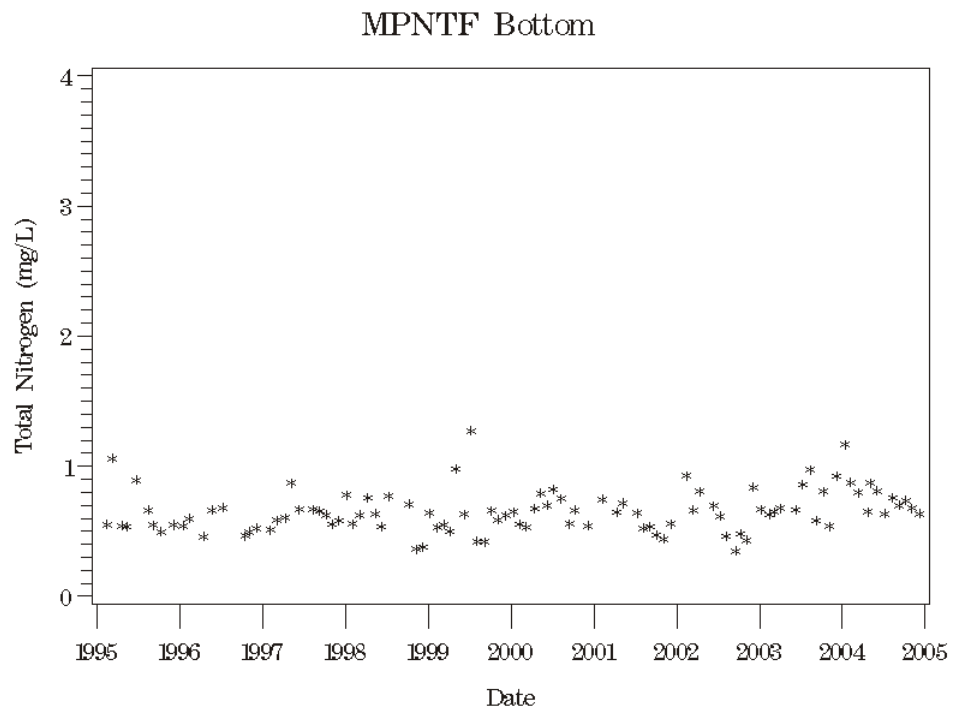
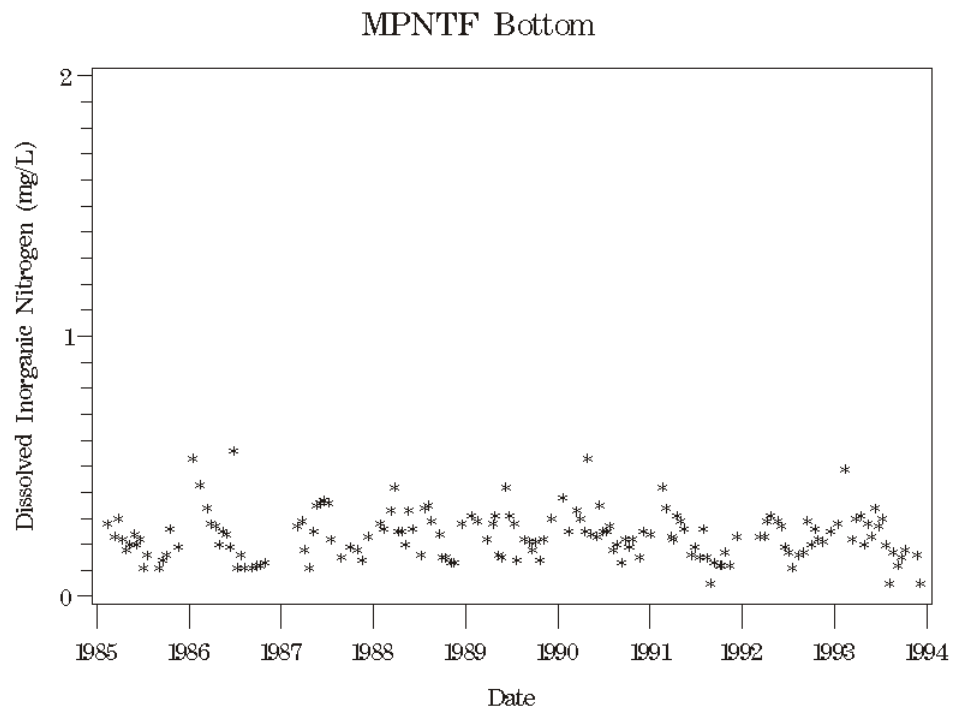


Figure 47. Scatterplots of bottom total nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

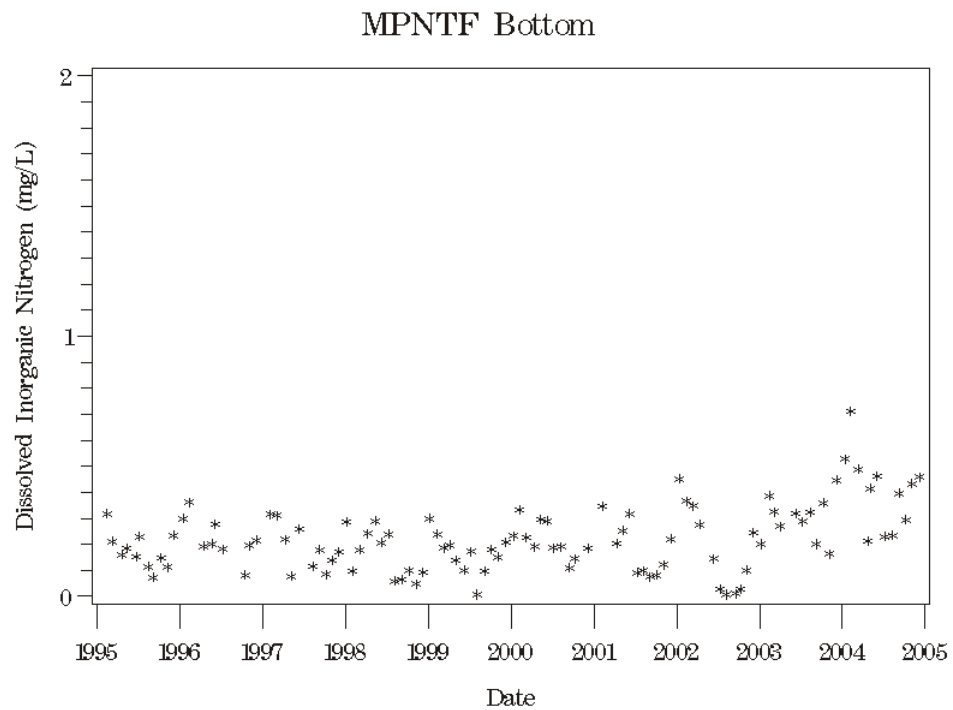
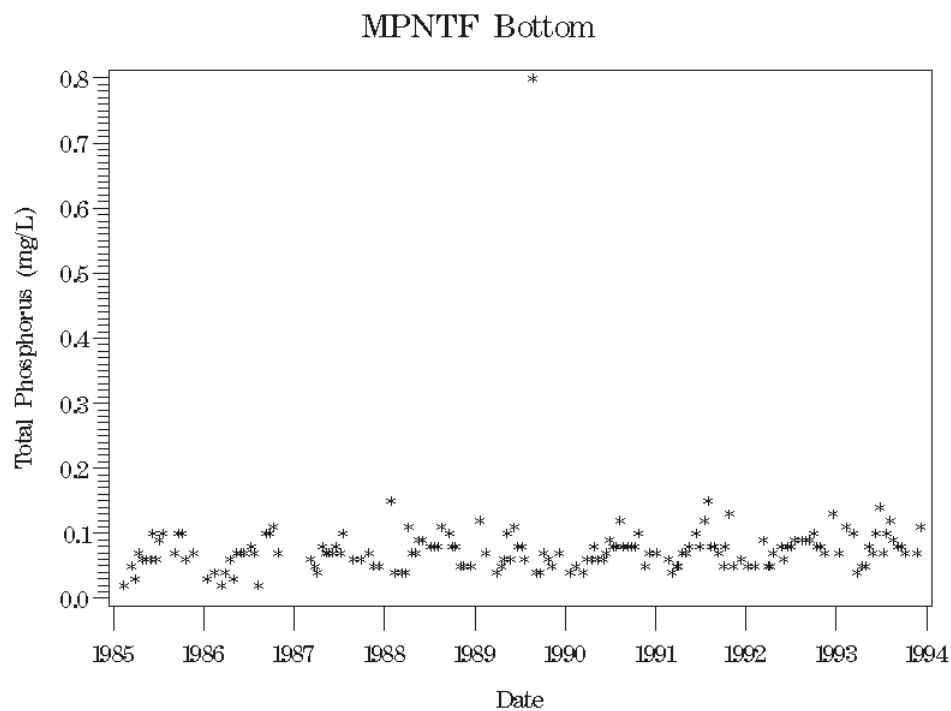


Figure 48. Scatterplots of bottom dissolved inorganic nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

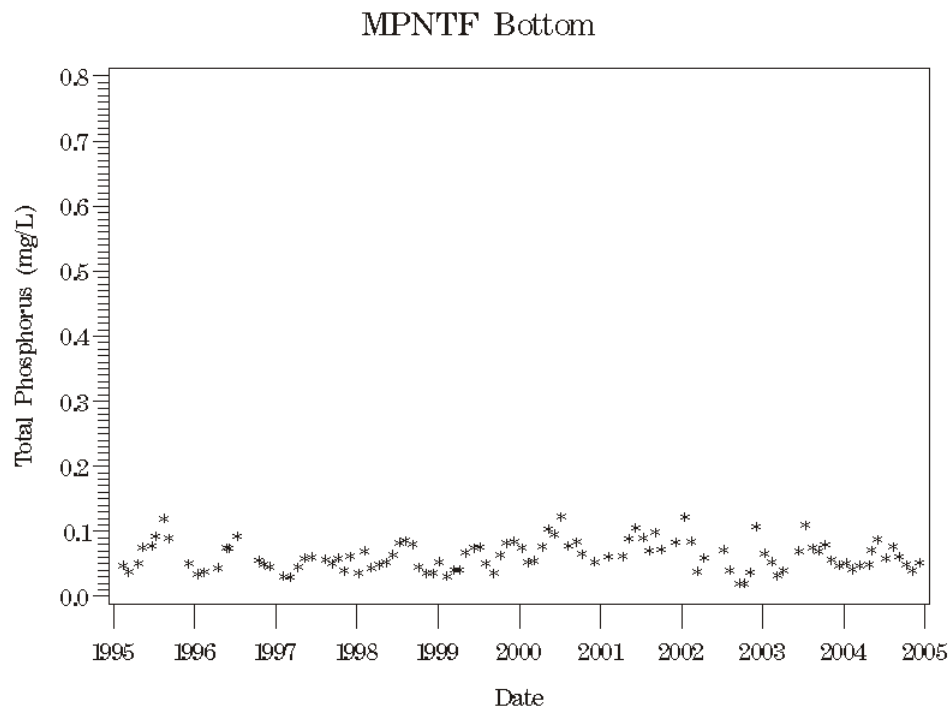
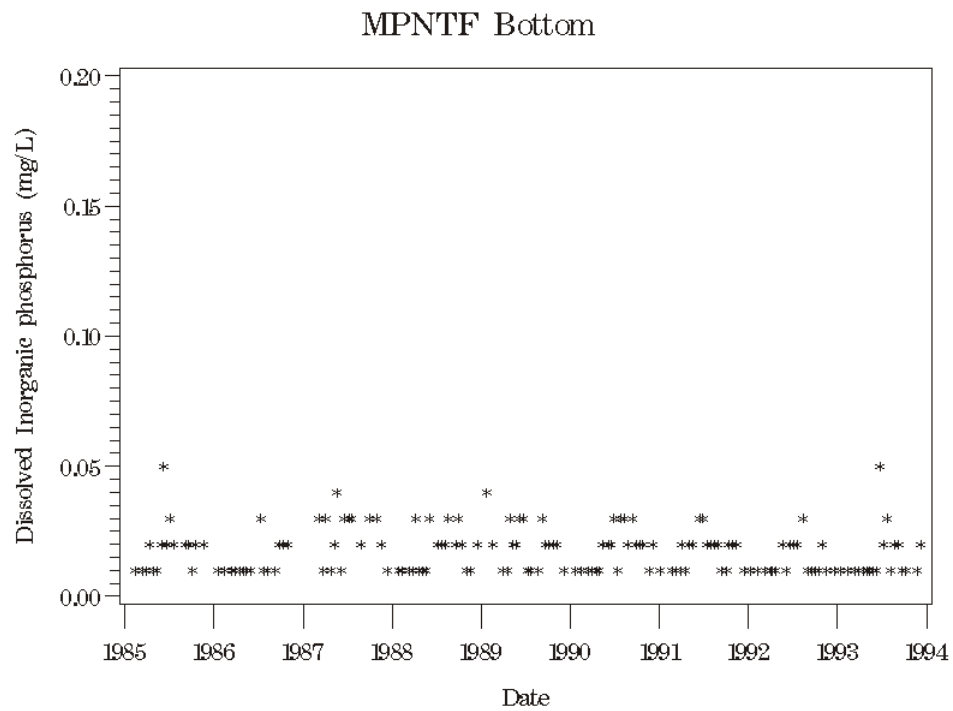


Figure 49. Scatterplots of bottom total phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

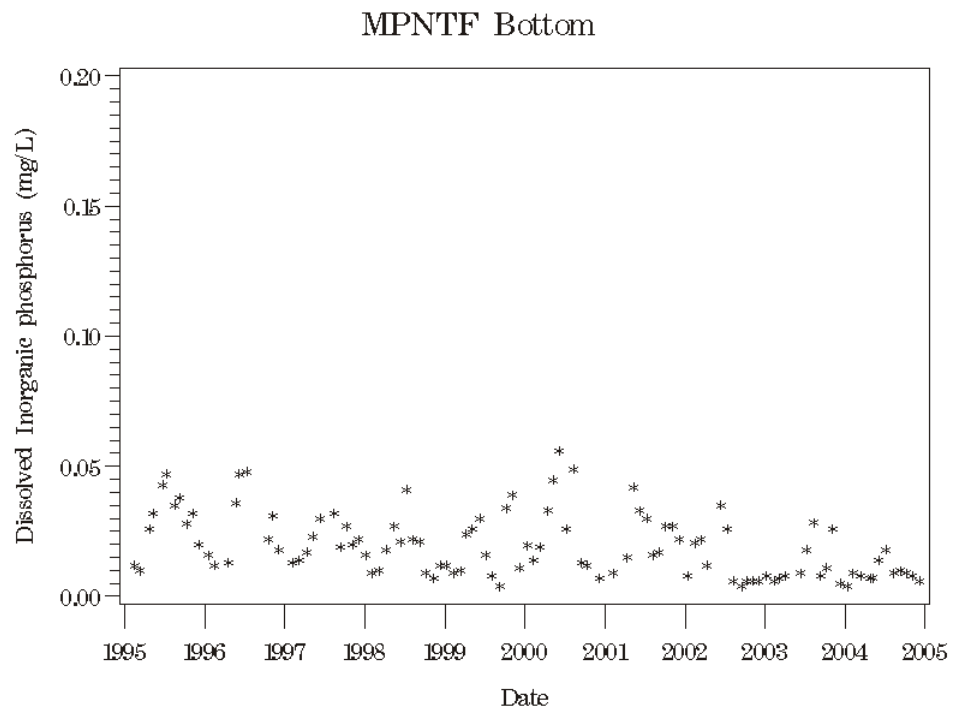


Figure 50. Scatterplots of bottom dissolved inorganic phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

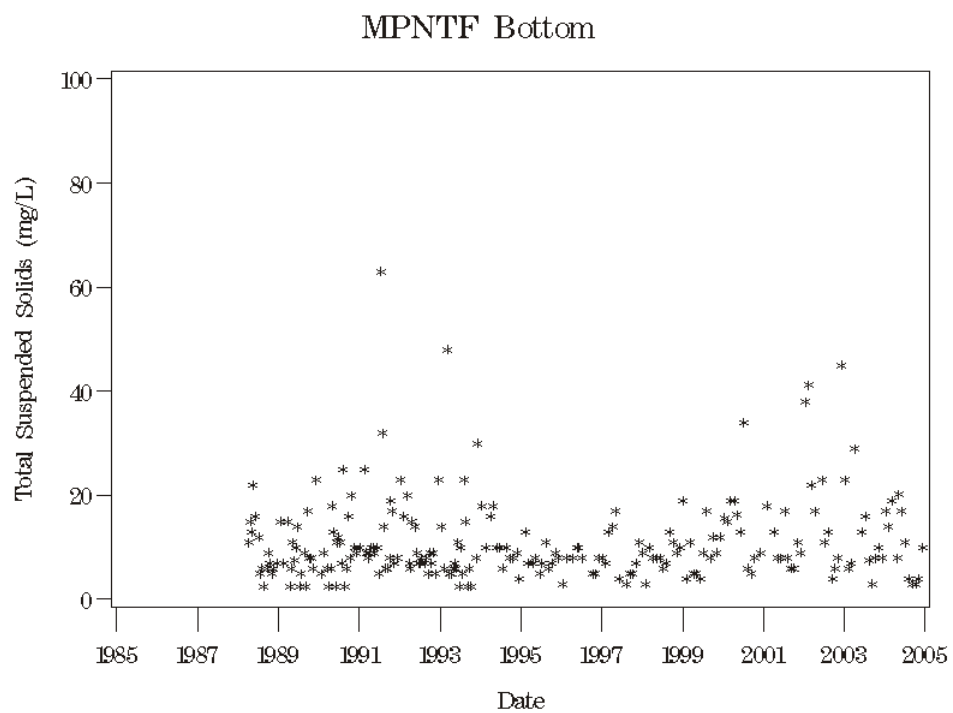


Figure 51. Scatterplot of bottom total suspended solids at segment MPNTF during the period 1985 to 2004.

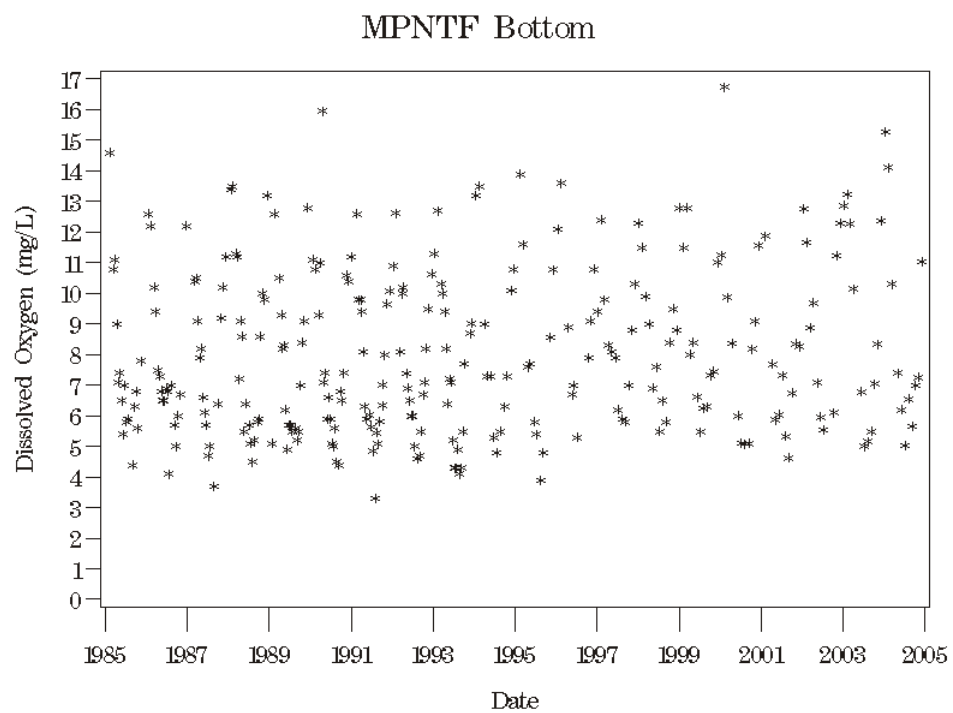


Figure 52. Scatterplot of bottom dissolved oxygen at segment MPNTF during the period 1985 to 2004.

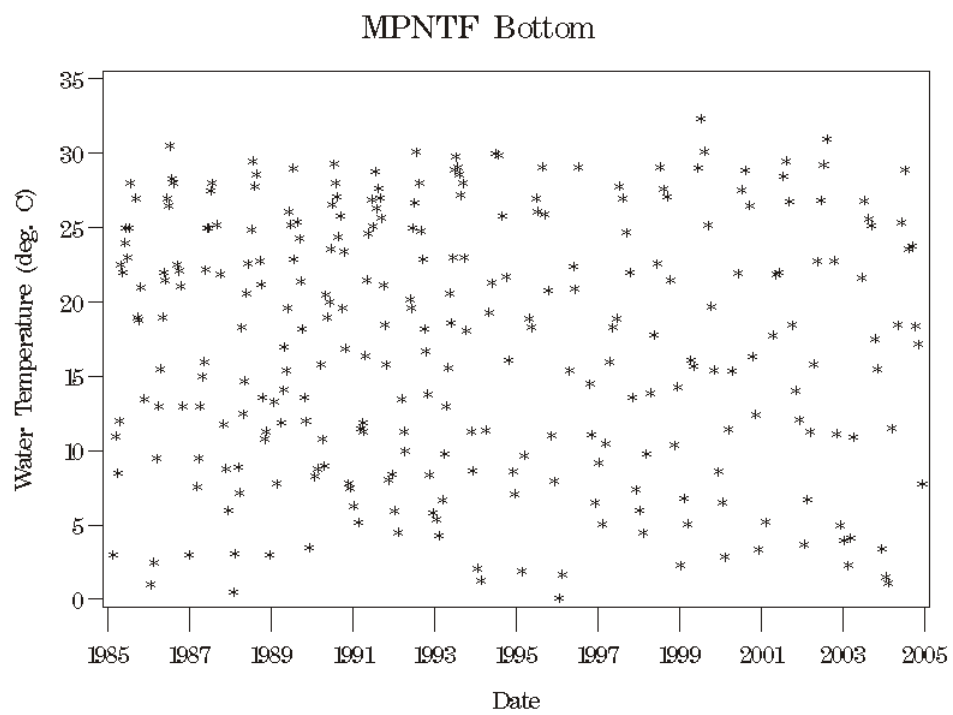


Figure 53. Scatterplot of bottom water temperature at segment MPNTF during the period 1985 to 2004.

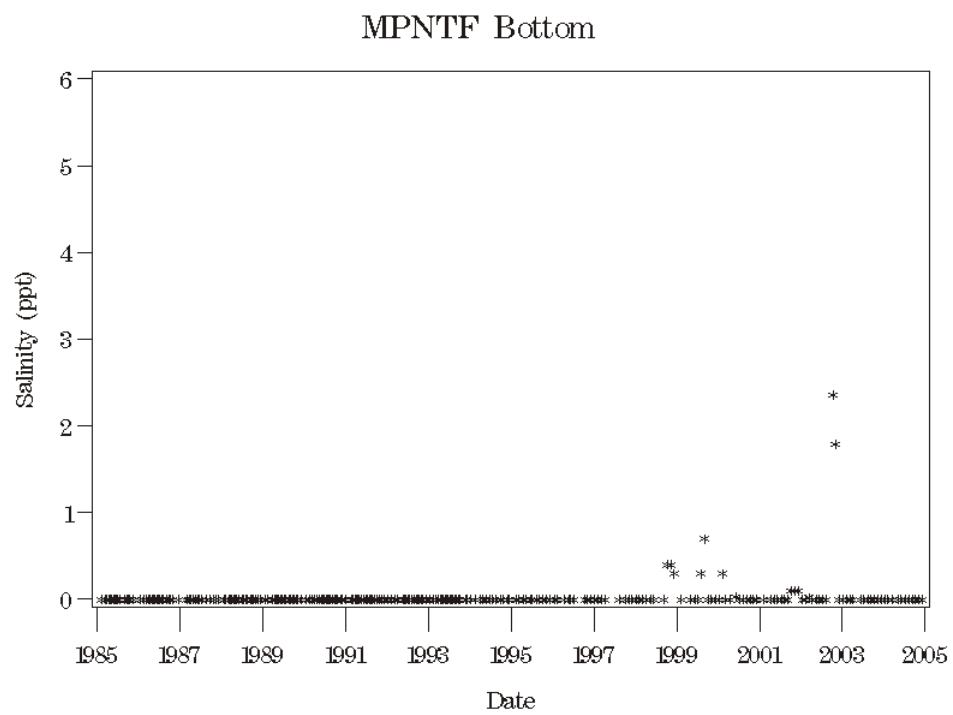
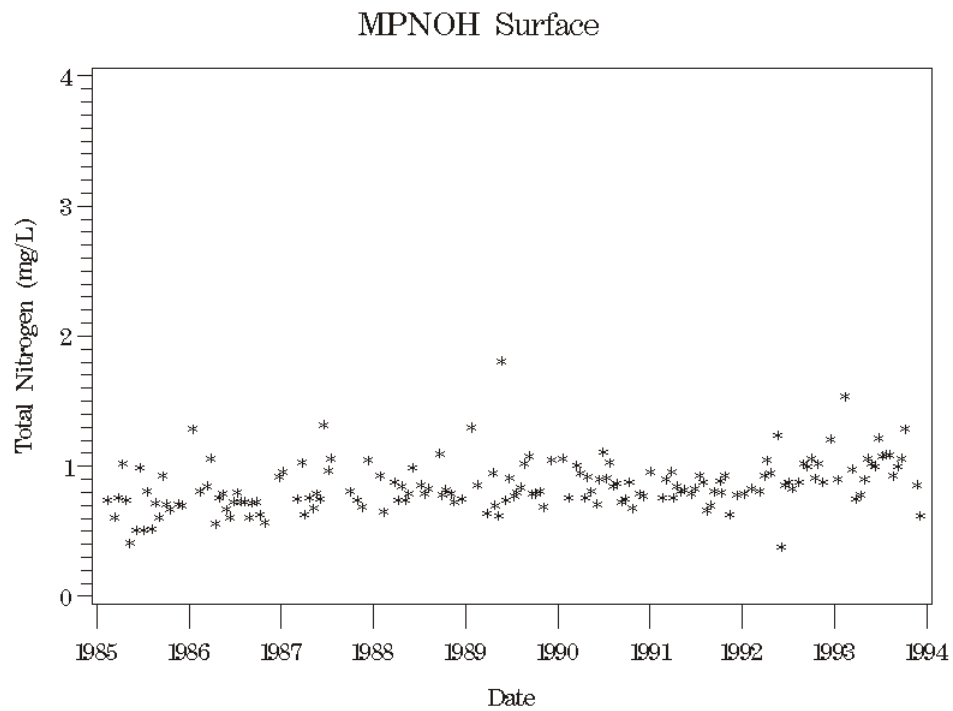


Figure 54. Scatterplot of bottom salinity at segment MPNTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

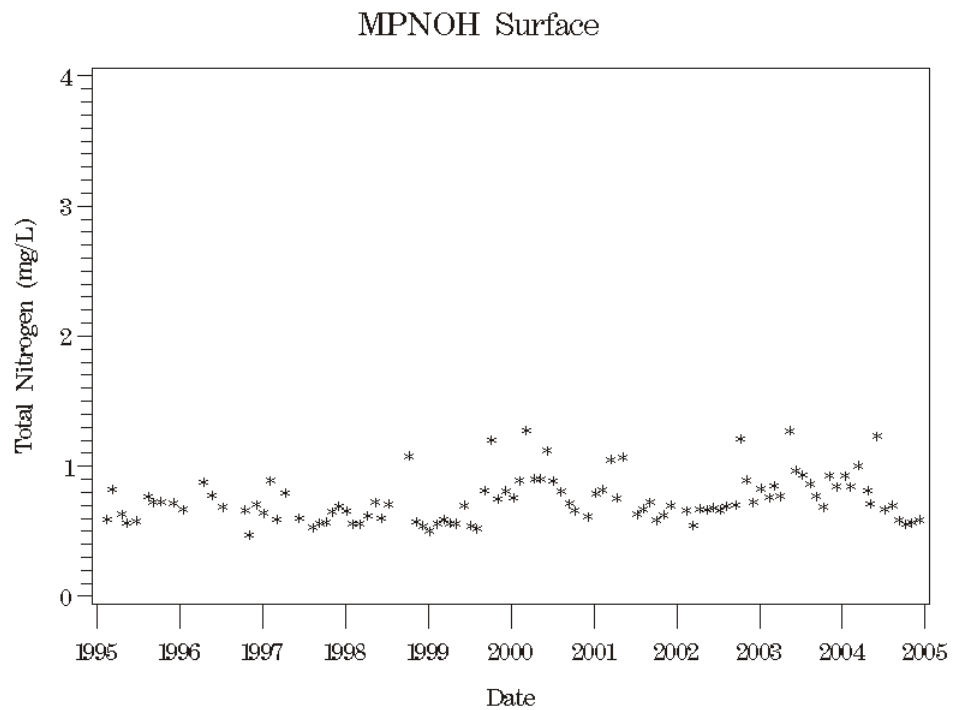
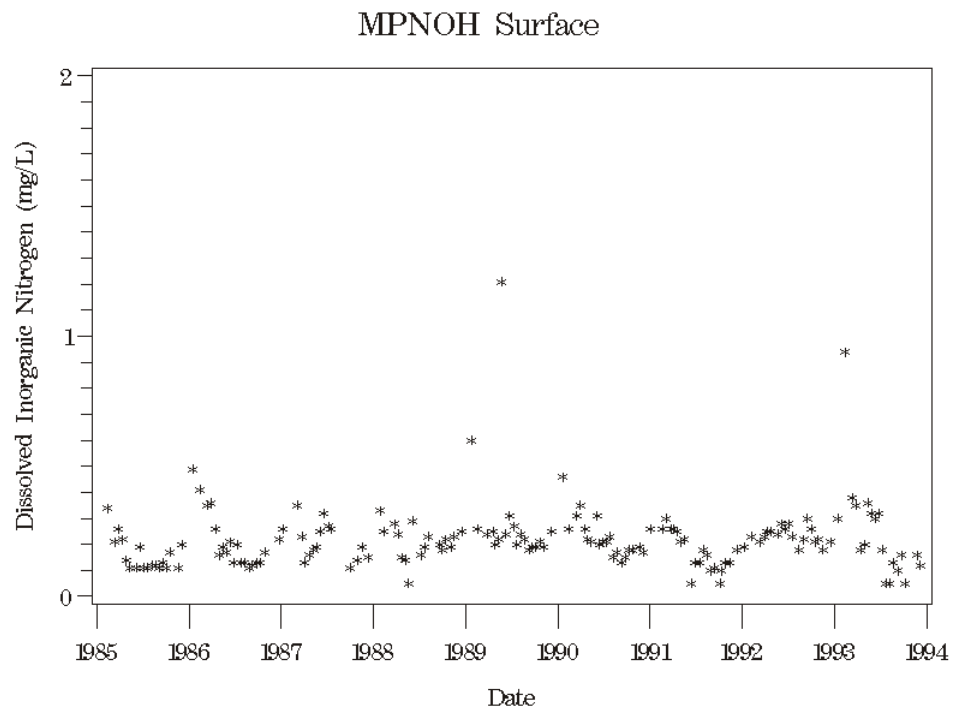


Figure 55. Scatterplots of surface total nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

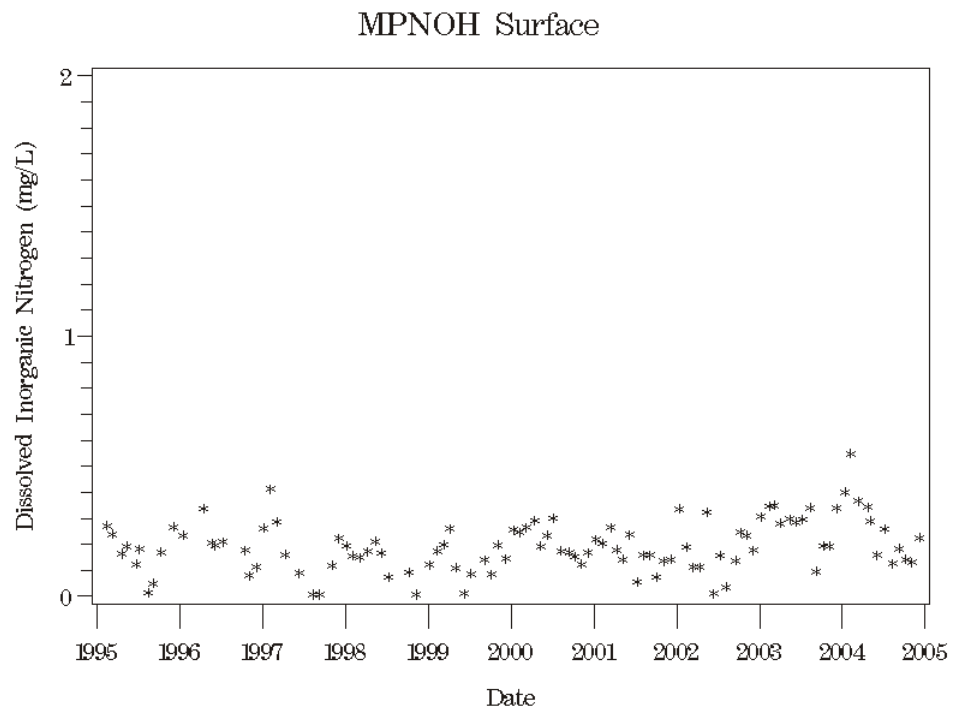
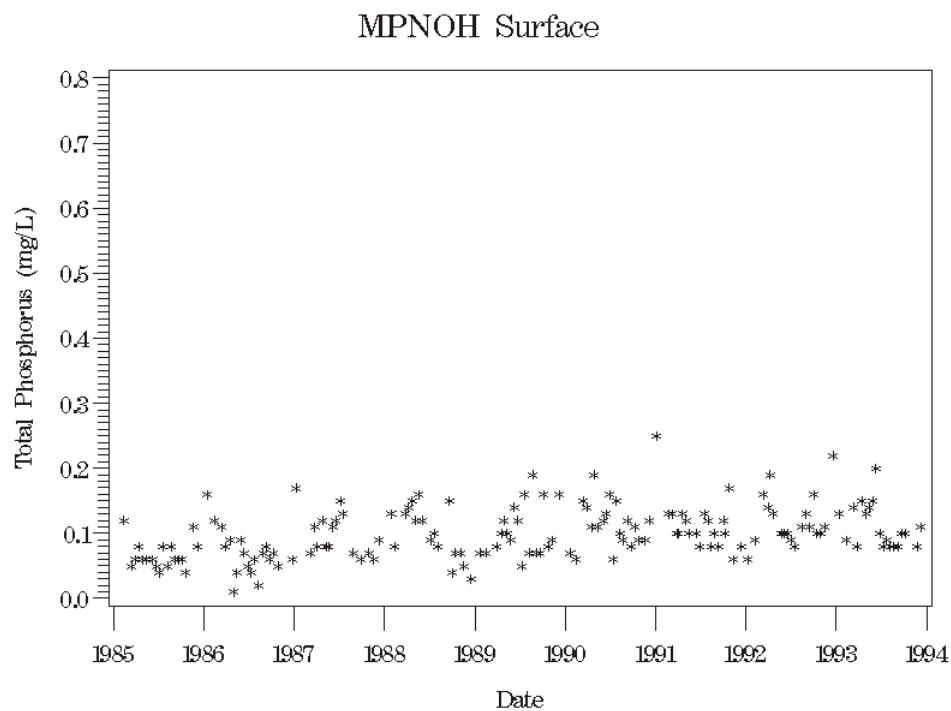


Figure 56. Scatterplots of surface dissolved inorganic nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

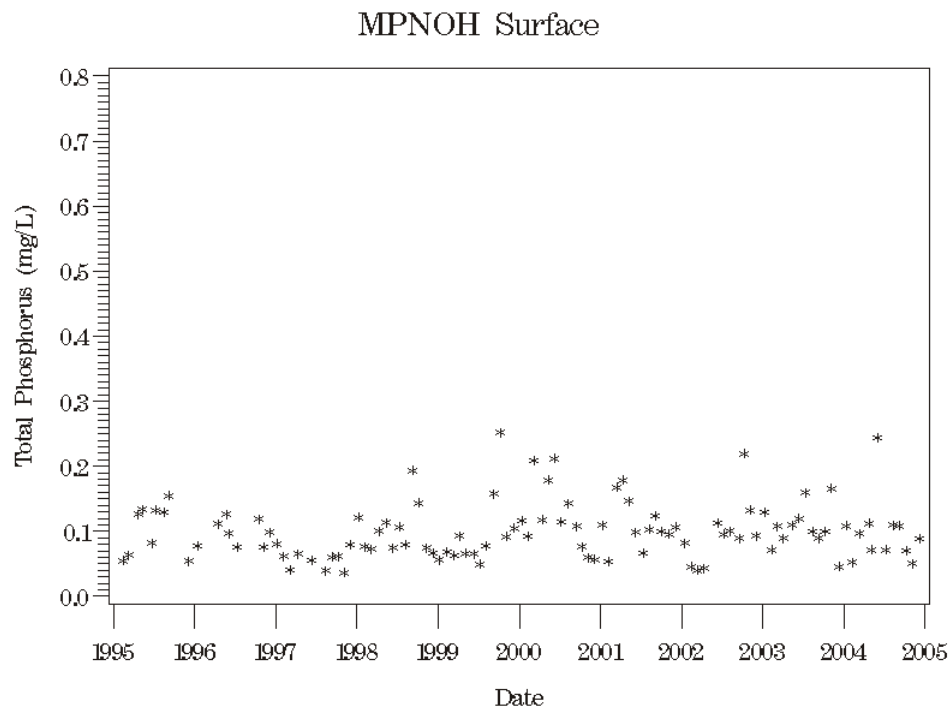
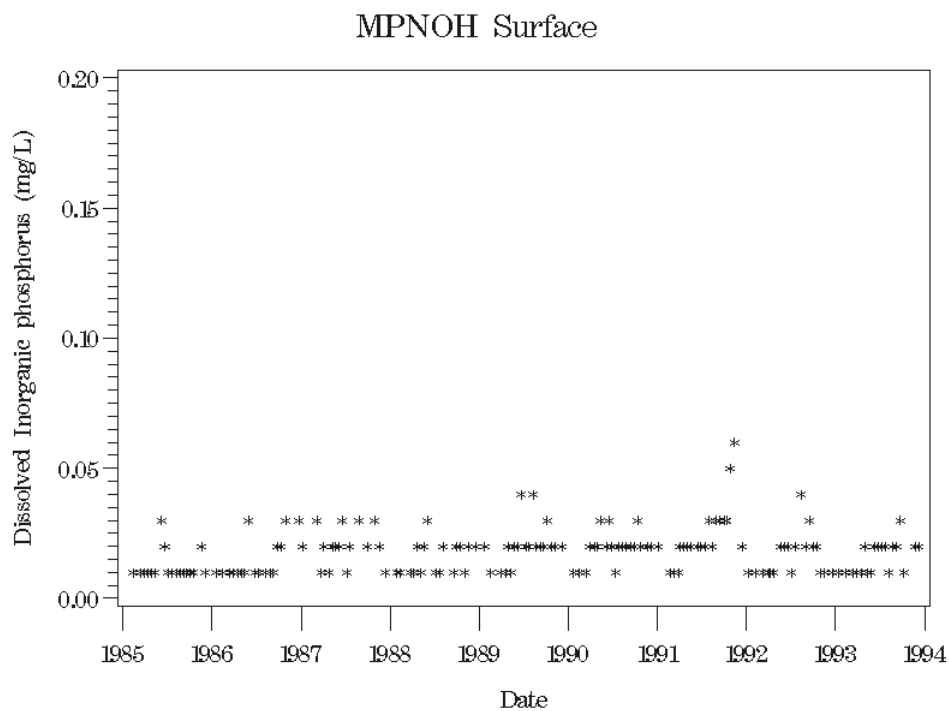


Figure 57. Scatterplots of surface total phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

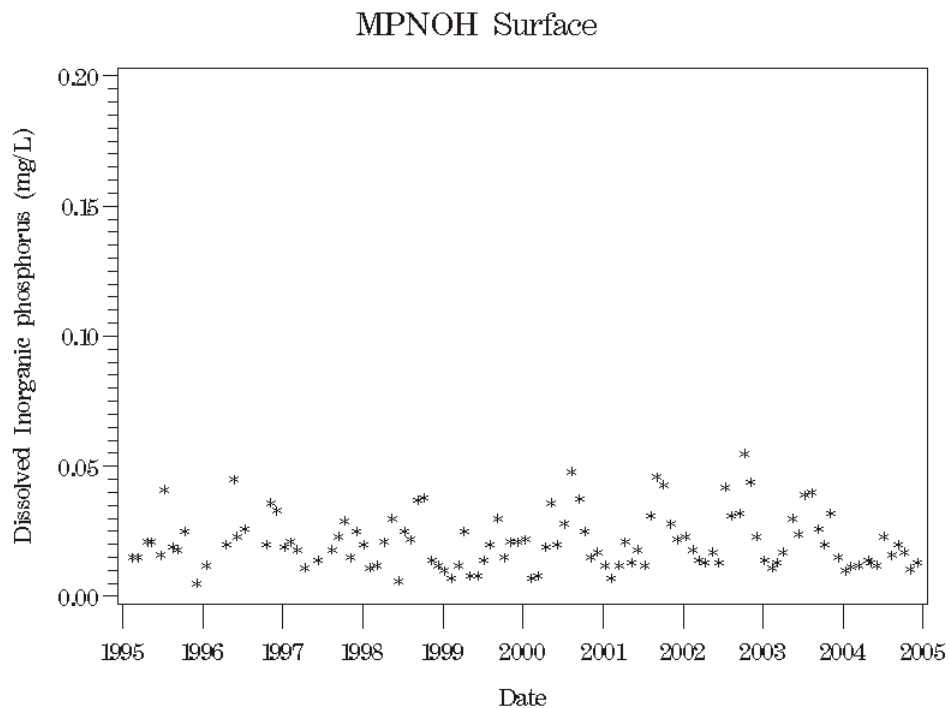


Figure 58. Scatterplots of surface dissolved inorganic phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

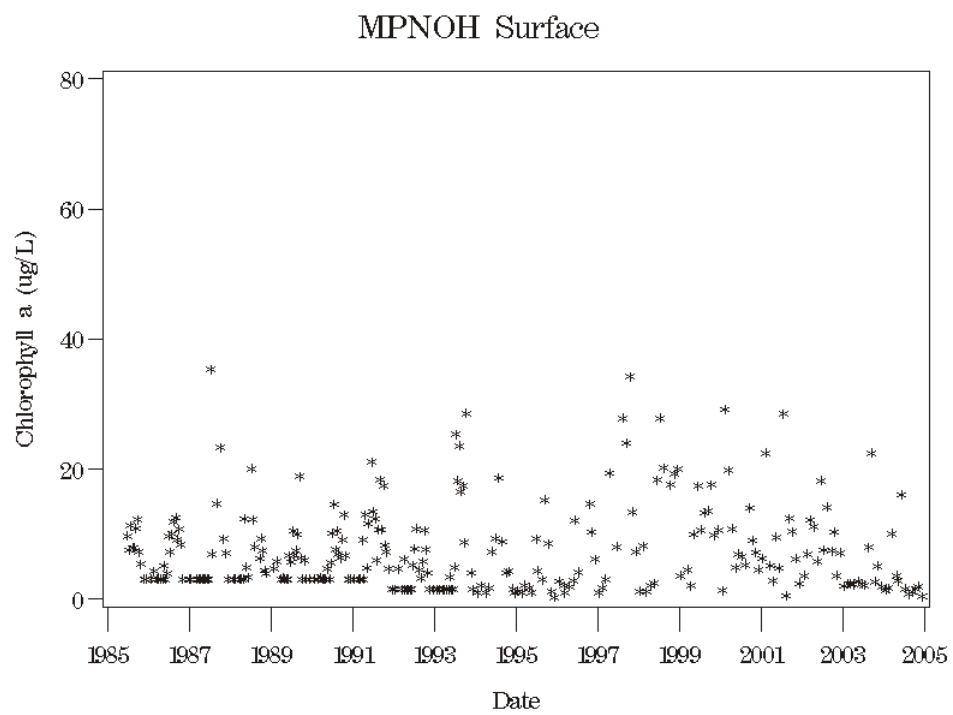


Figure 59. Scatterplot of surface chlorophyll *a* at segment MPNOH during the period 1985 to 2004.

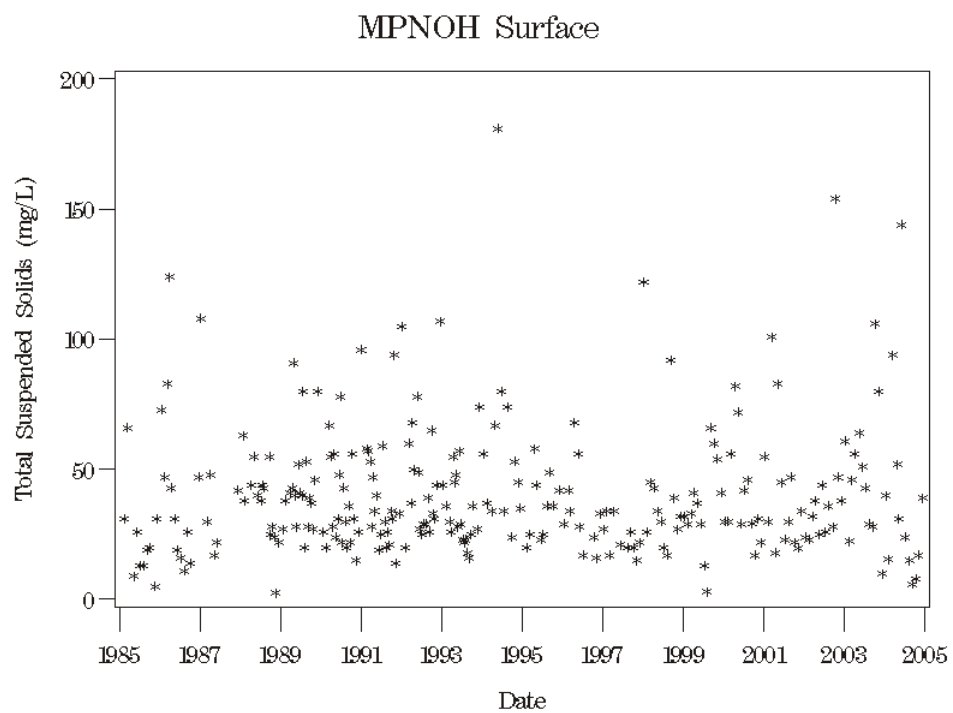


Figure 60. Scatterplot of surface total suspended solids at segment MPNOH during the period 1985 to 2004.

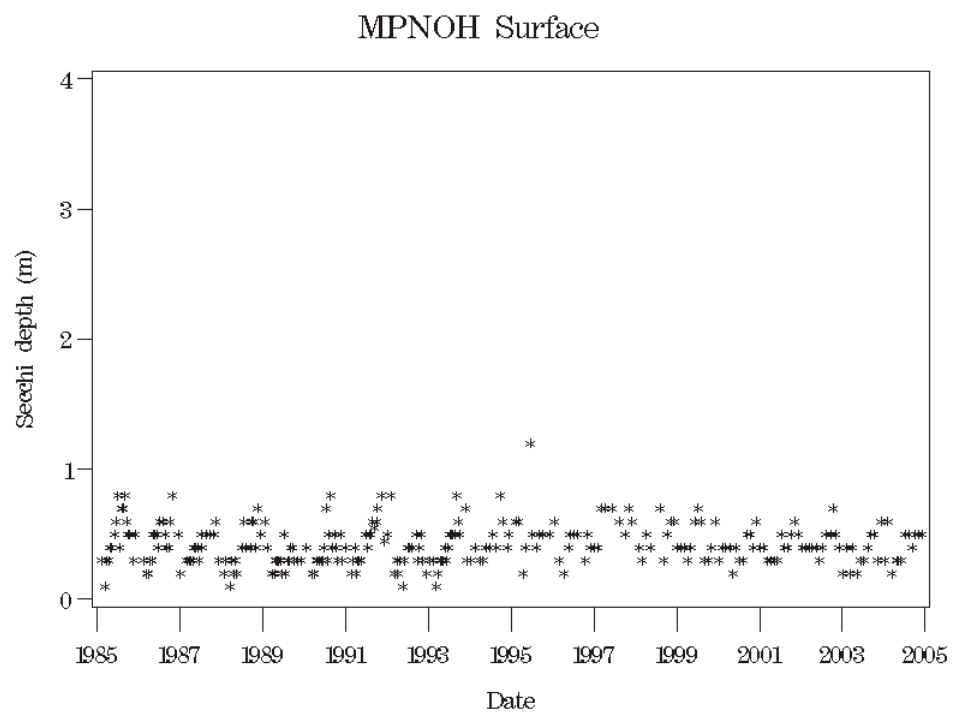


Figure 61. Scatterplot of secchi depth at segment MPNOH during the period 1985 to 2004.

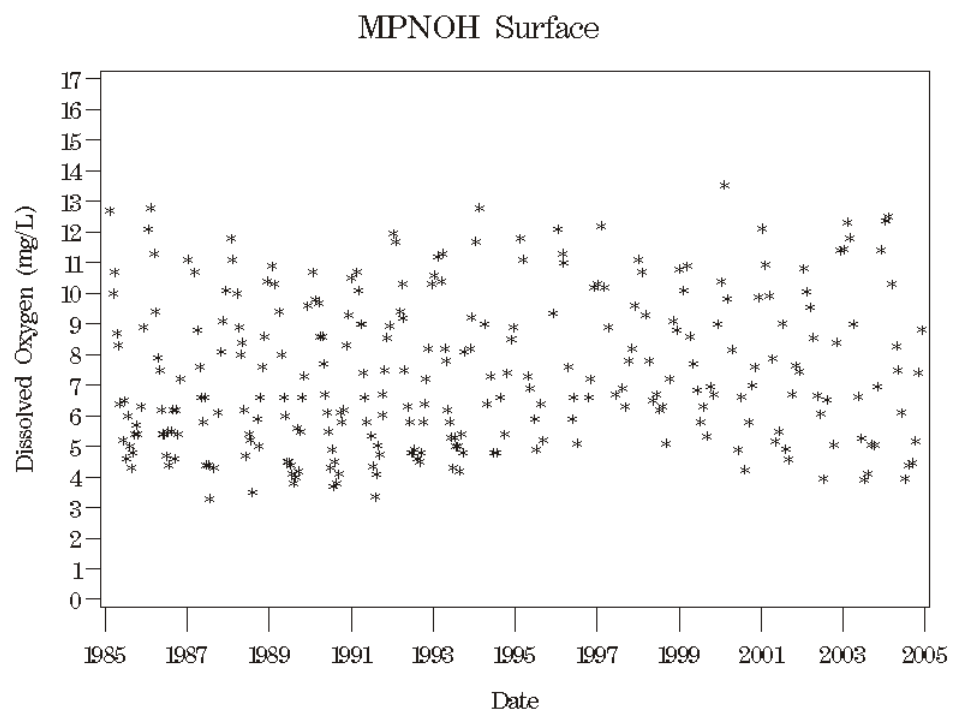


Figure 62. Scatterplot of surface dissolved oxygen at segment MPNOH during the period 1985 to 2004.

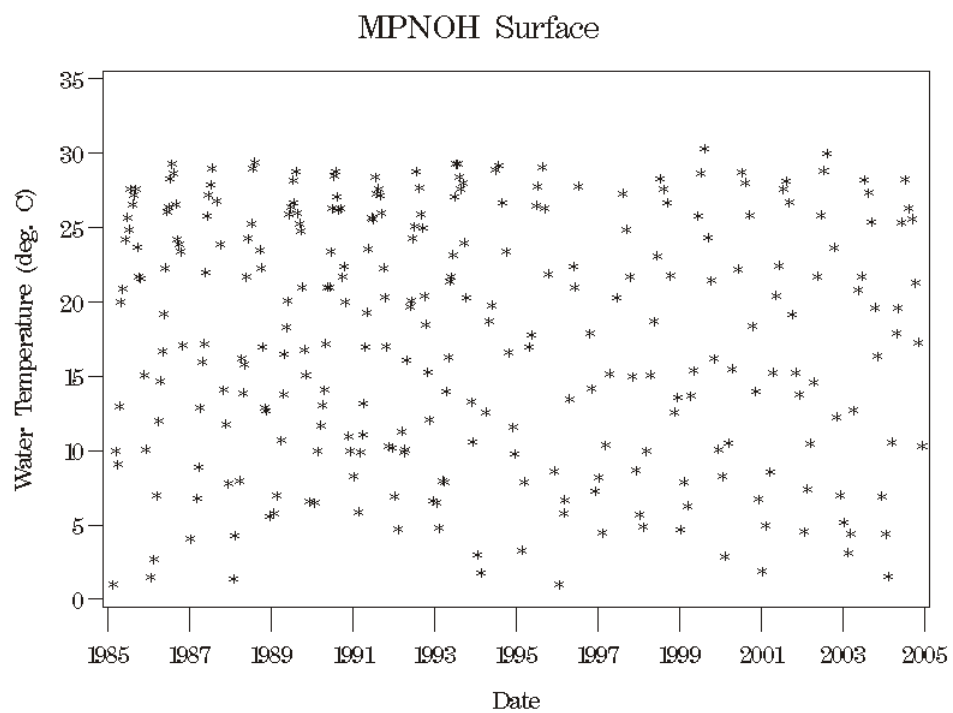


Figure 63. Scatterplot of surface water temperature at segment MPNOH during the period 1985 to 2004.

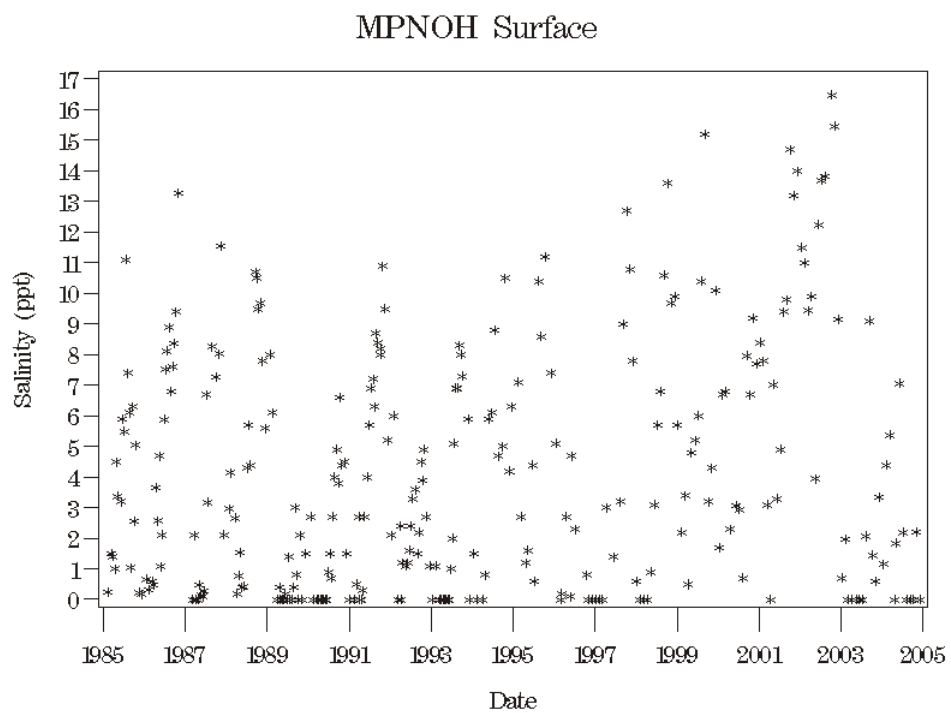
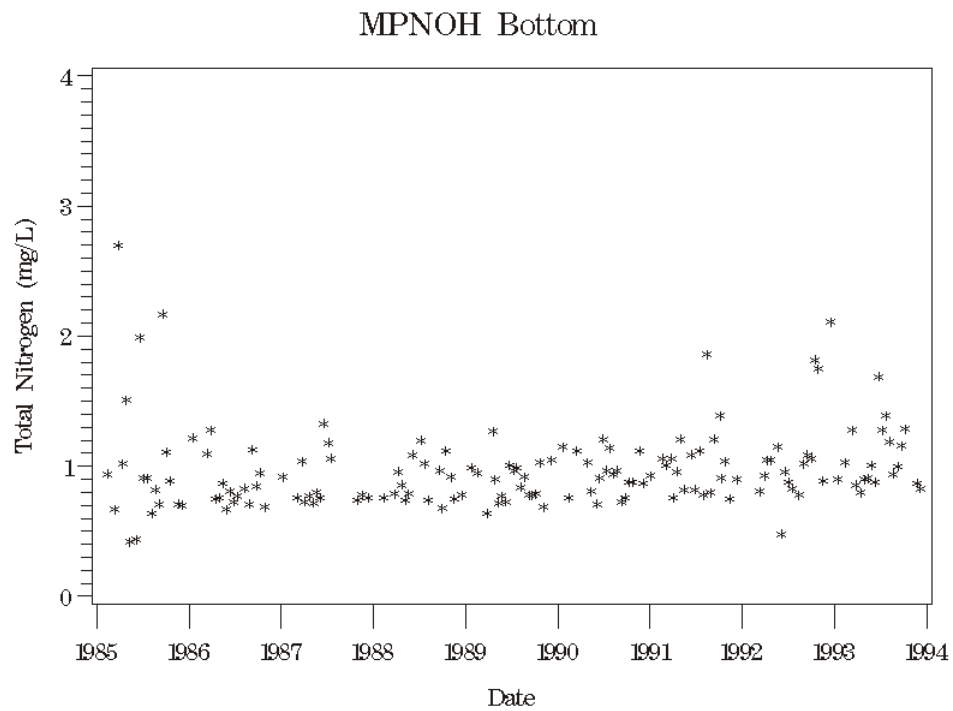


Figure 64. Scatterplot of surface salinity at segment MPNOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

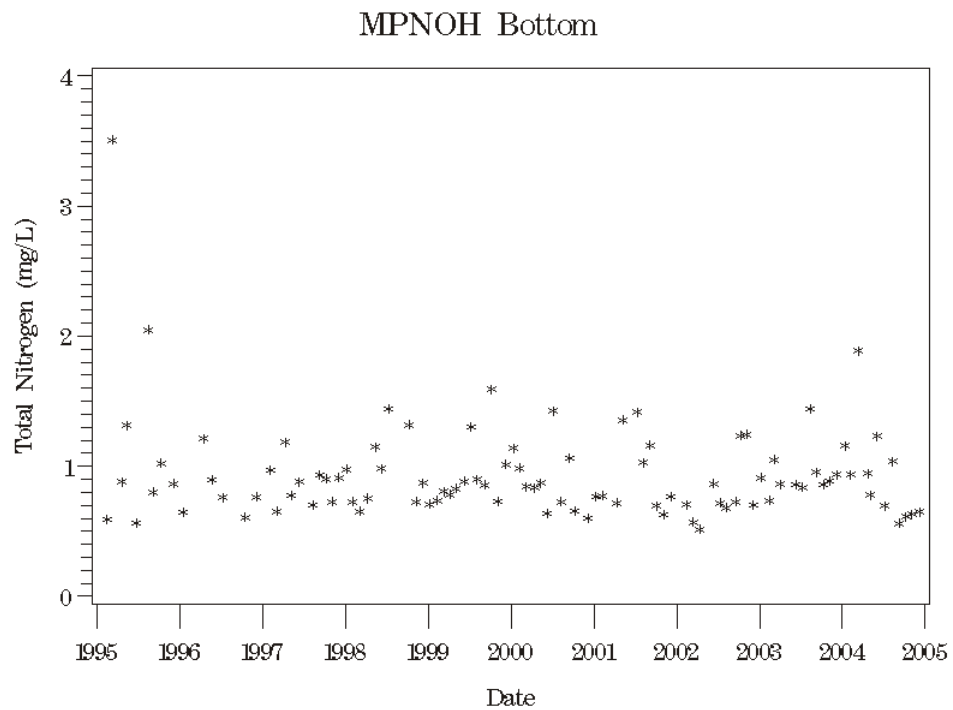
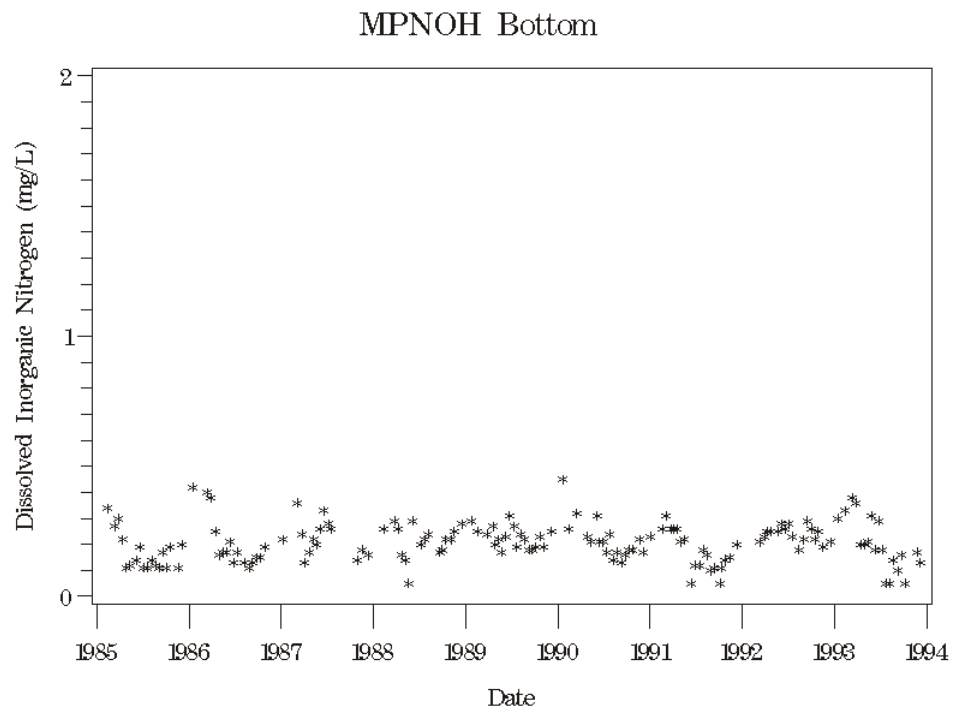


Figure 65. Scatterplots of bottom total nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

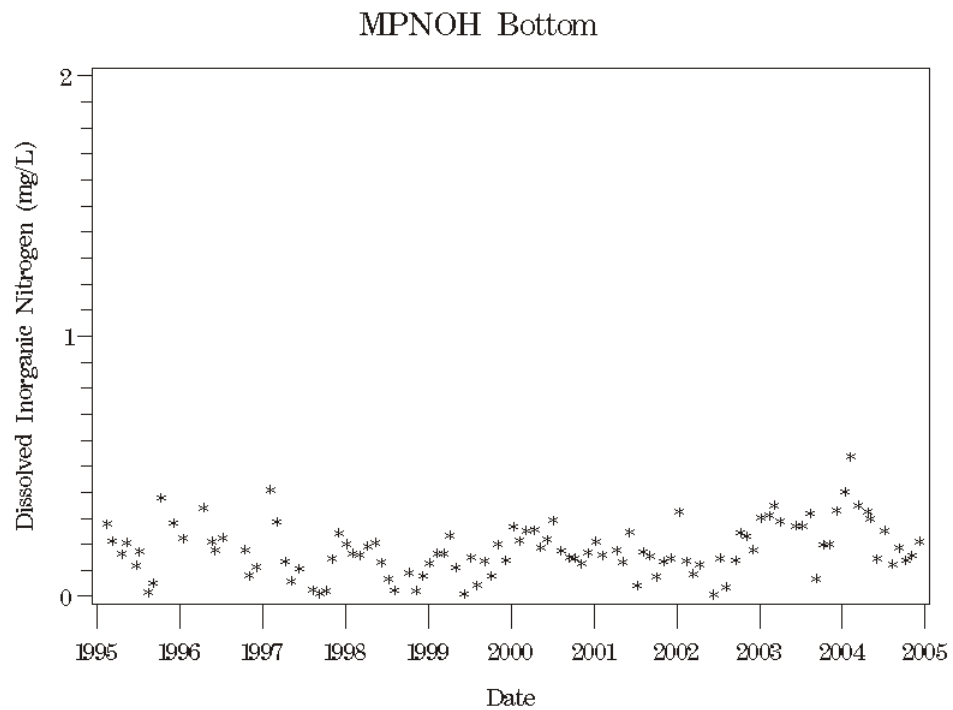
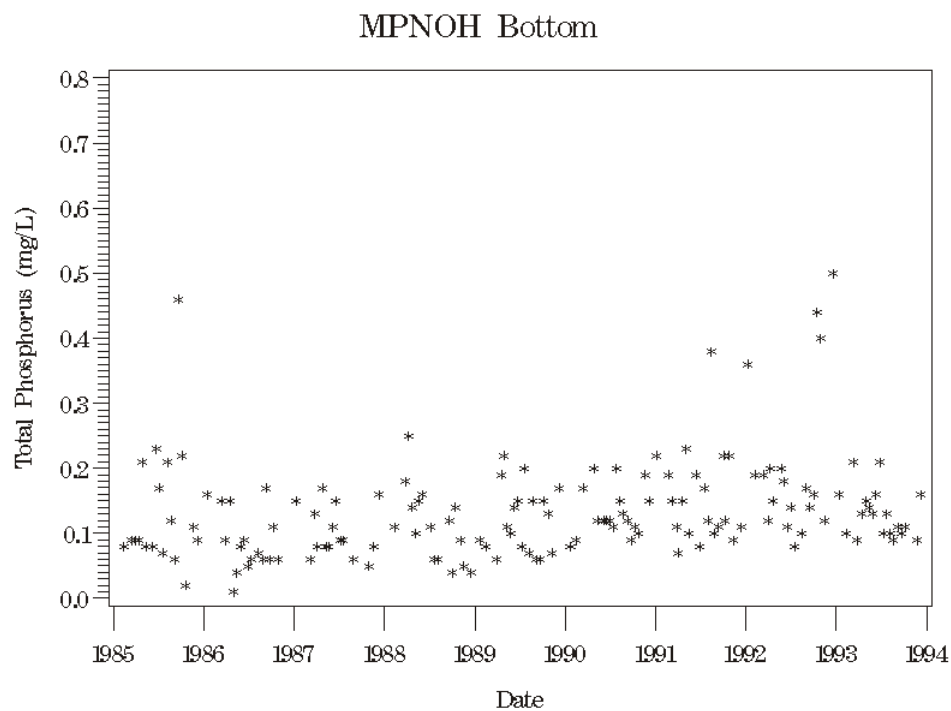


Figure 66. Scatterplots of bottom dissolved inorganic nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

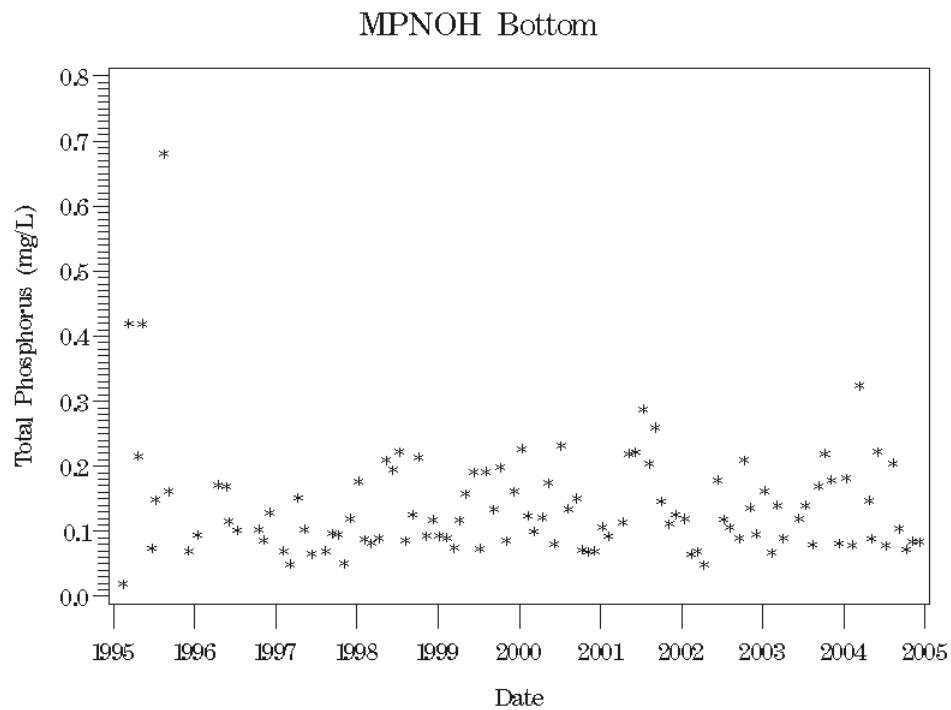
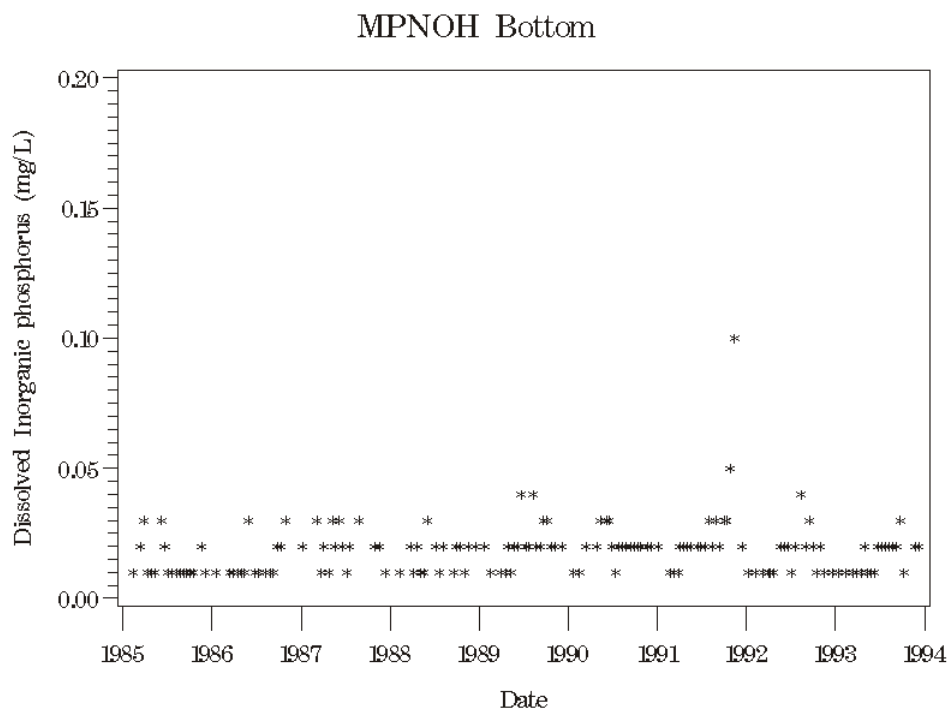


Figure 67. Scatterplots of bottom total phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

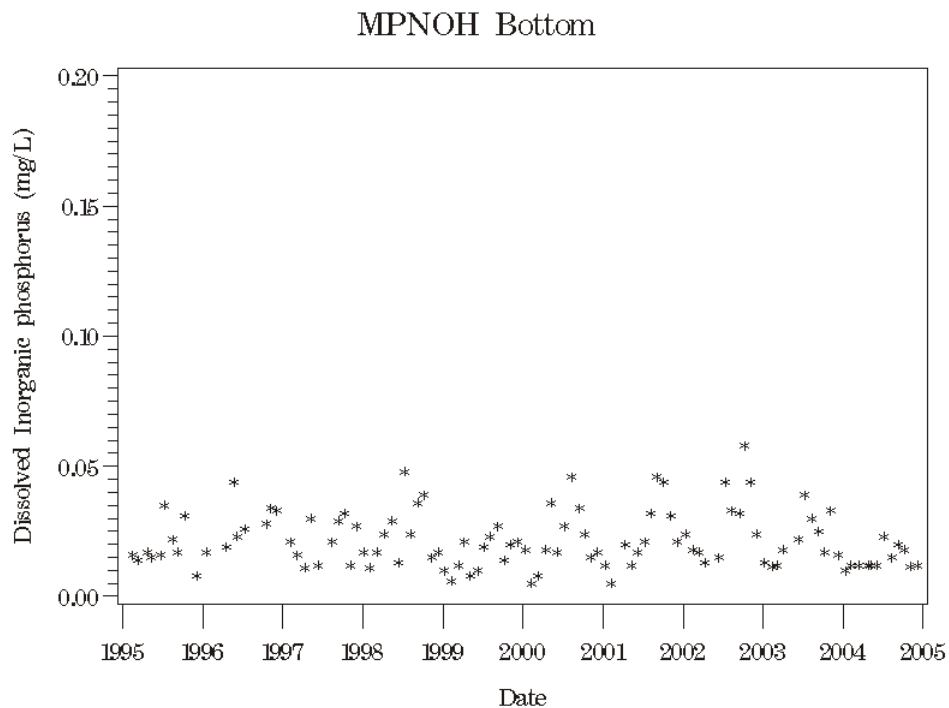


Figure 68. Scatterplots of bottom dissolved inorganic phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

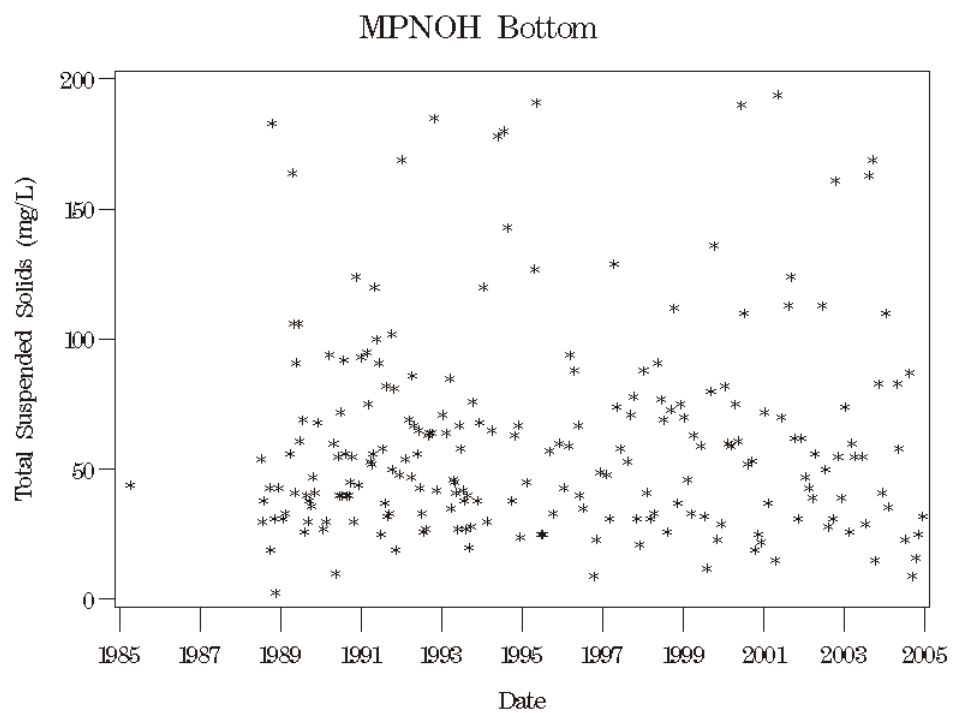


Figure 69. Scatterplot of bottom total suspended solids at segment MPNOH during the period 1985 to 2004.

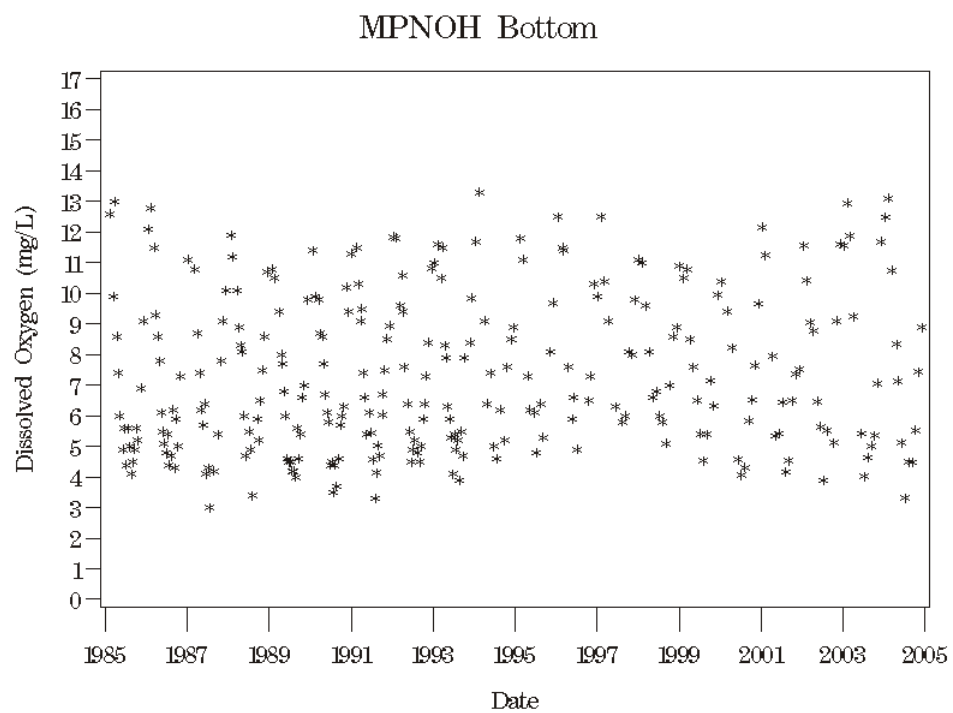


Figure 70. Scatterplot of bottom dissolved oxygen at segment MPNOH during the period 1985 to 2004.

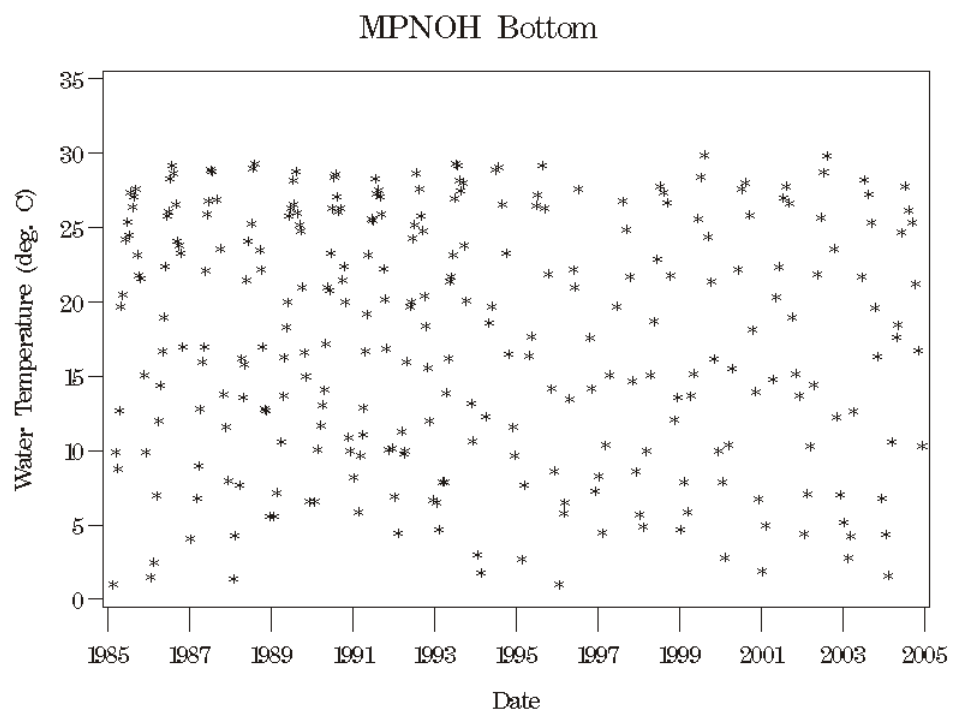


Figure 71. Scatterplot of bottom water temperature at segment MPNOH during the period 1985 to 2004.

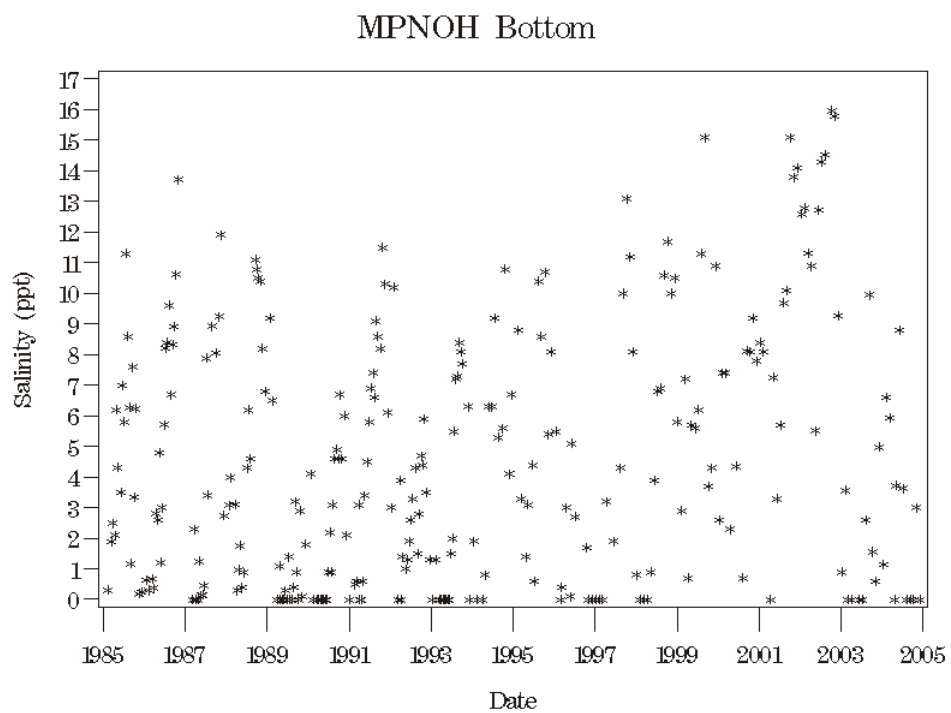
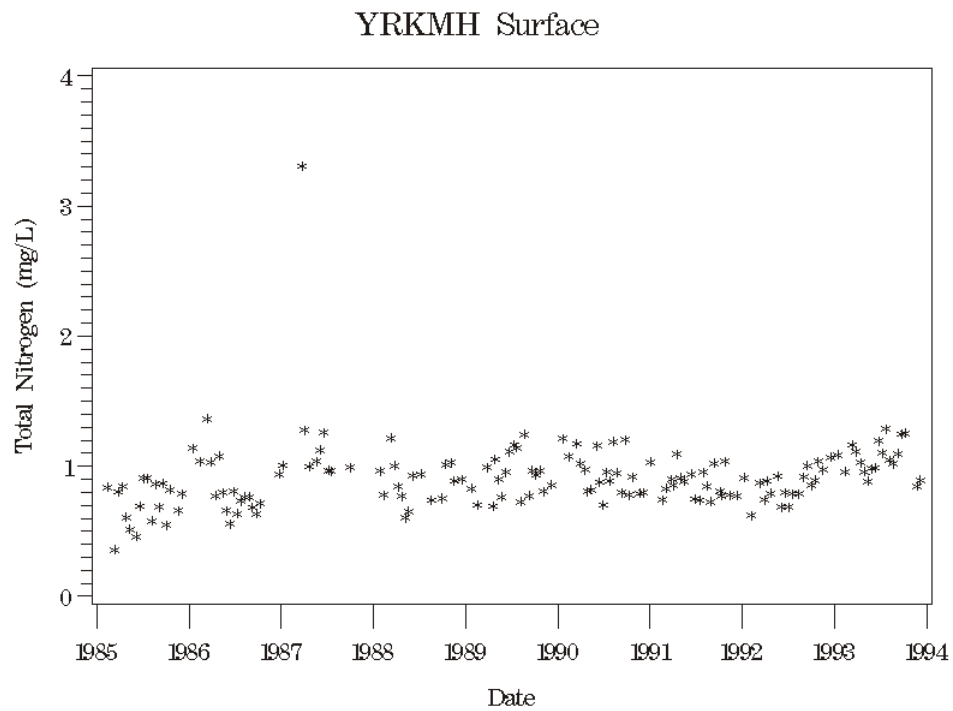


Figure 72. Scatterplot of bottom salinity at segment MPNOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

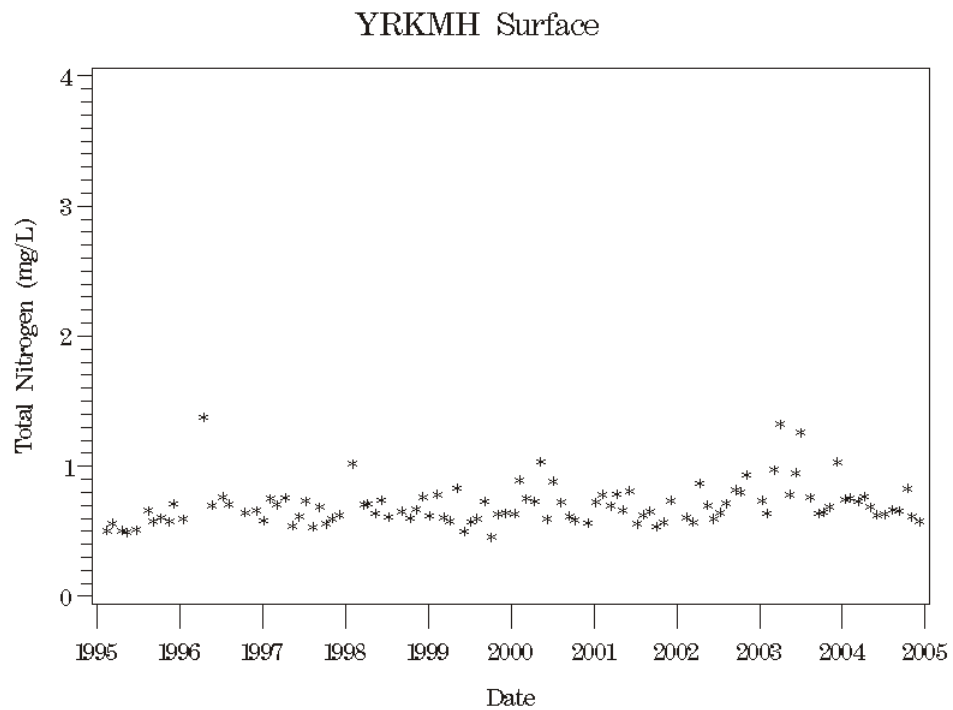
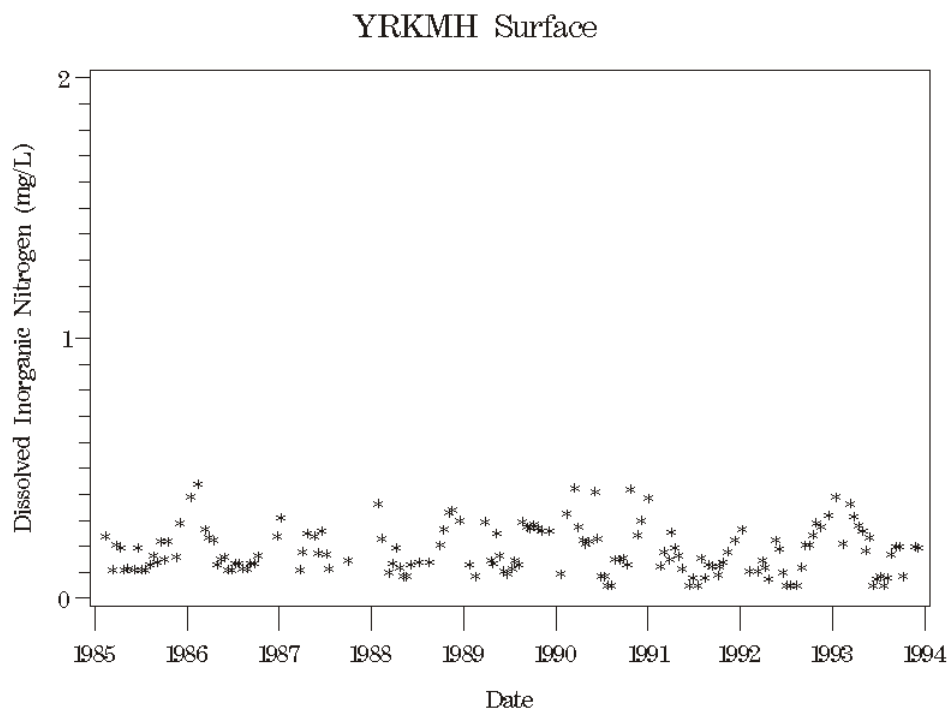


Figure 73. Scatterplots of surface total nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

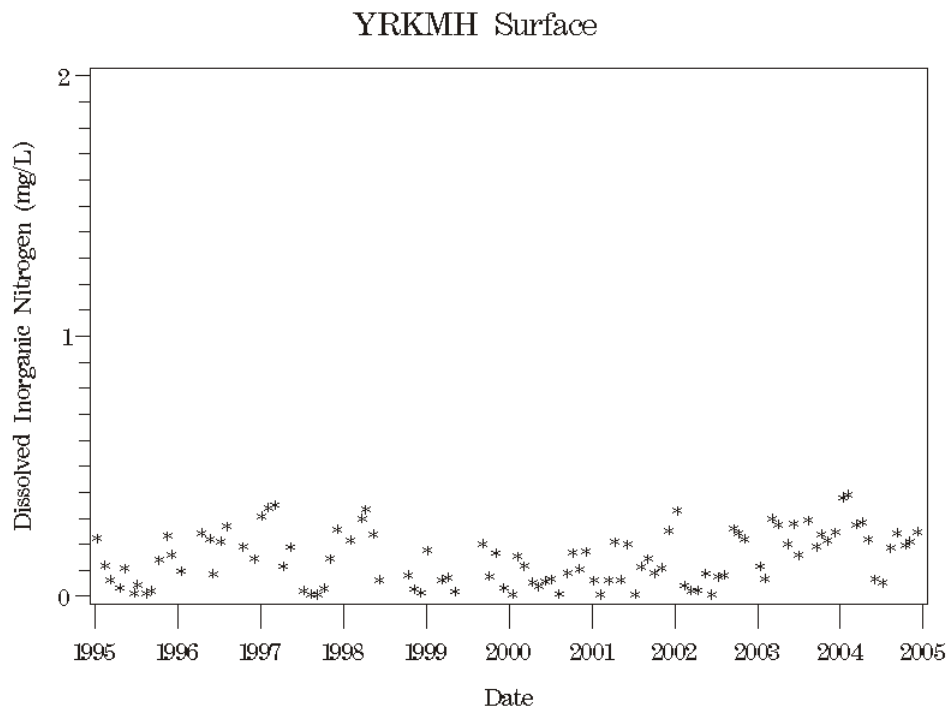
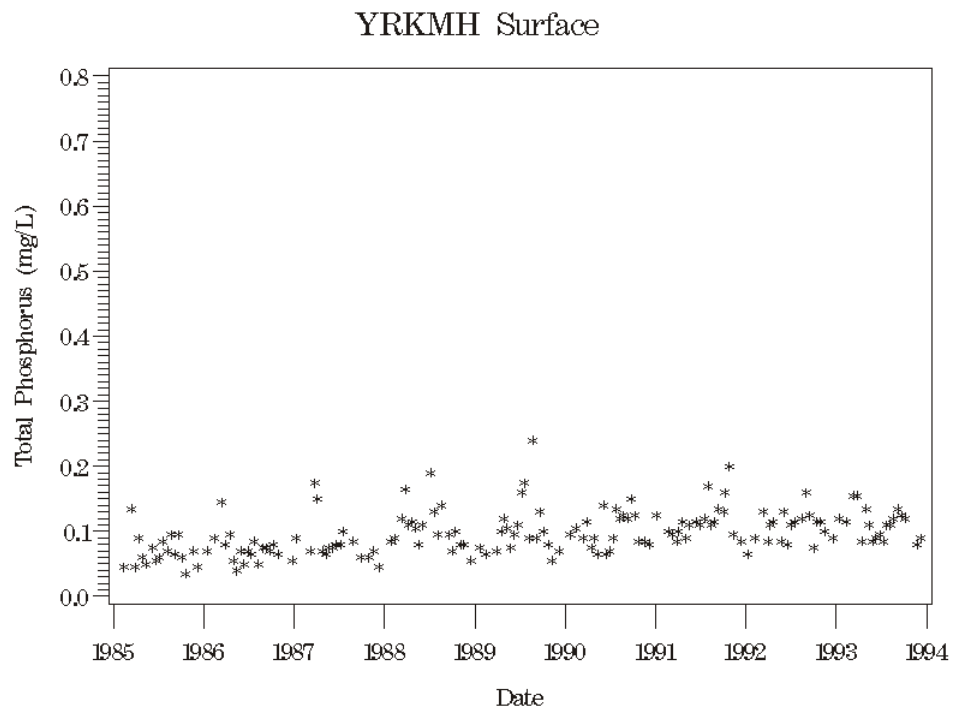


Figure 74. Scatterplots of surface dissolved inorganic nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

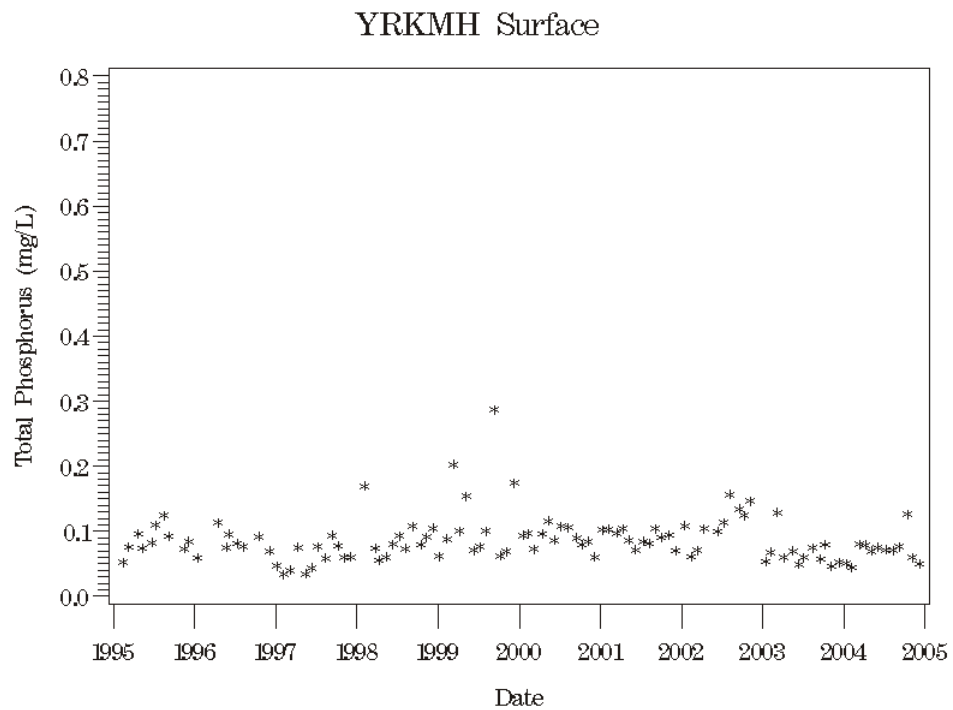
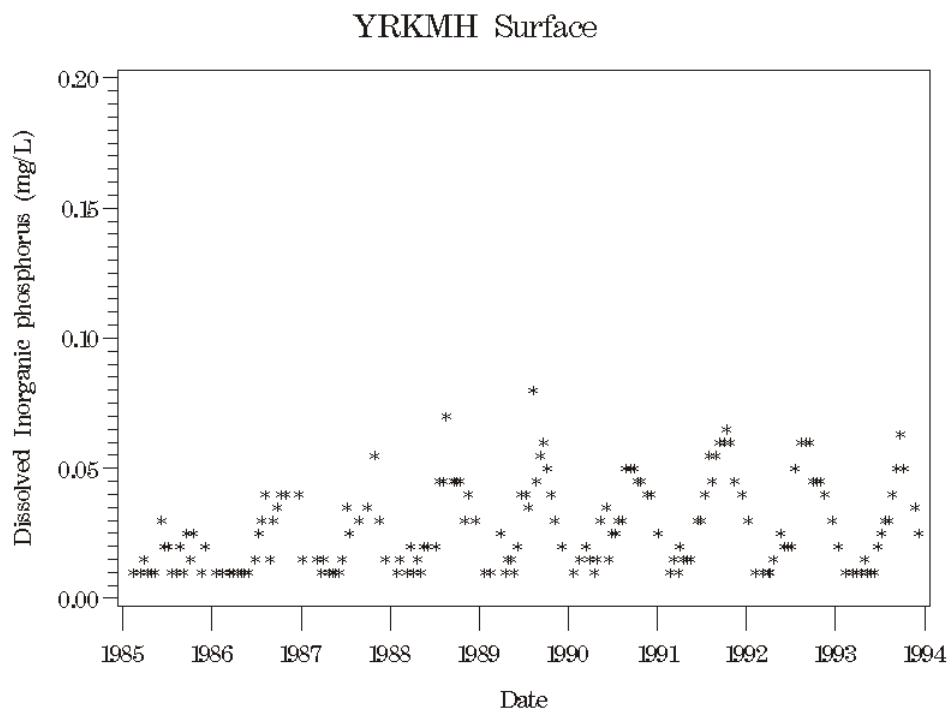


Figure 75. Scatterplots of surface total phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

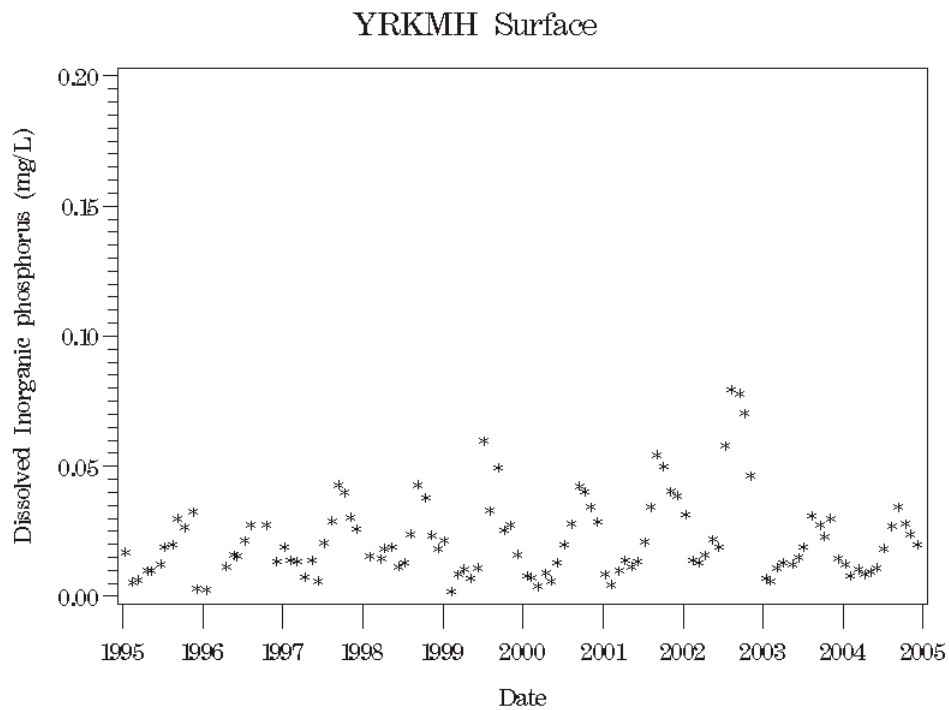


Figure 76. Scatterplots of surface dissolved inorganic phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

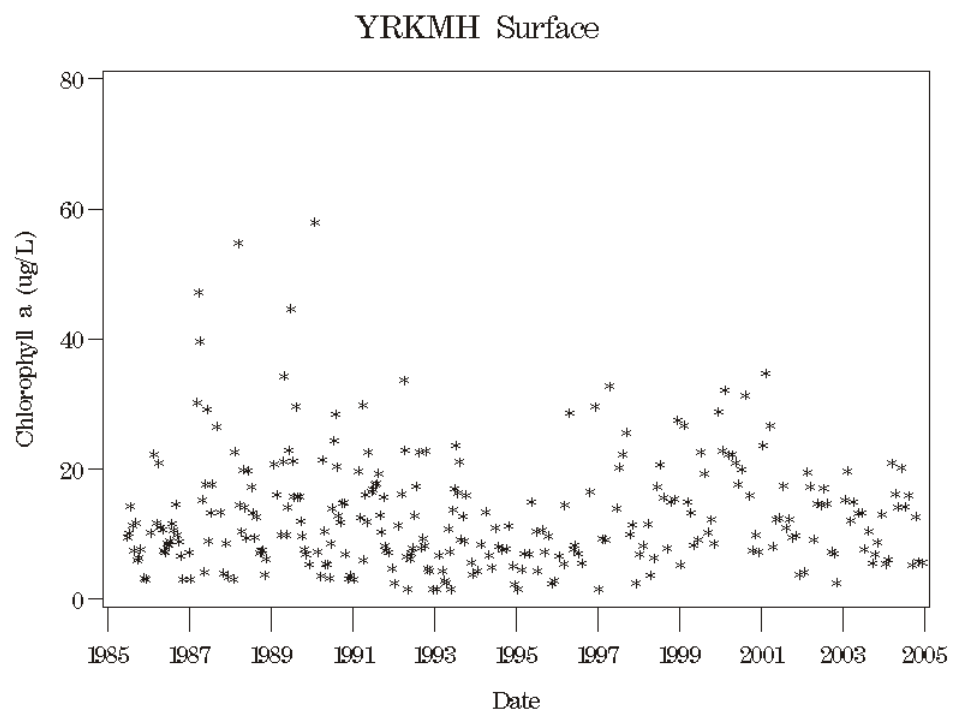


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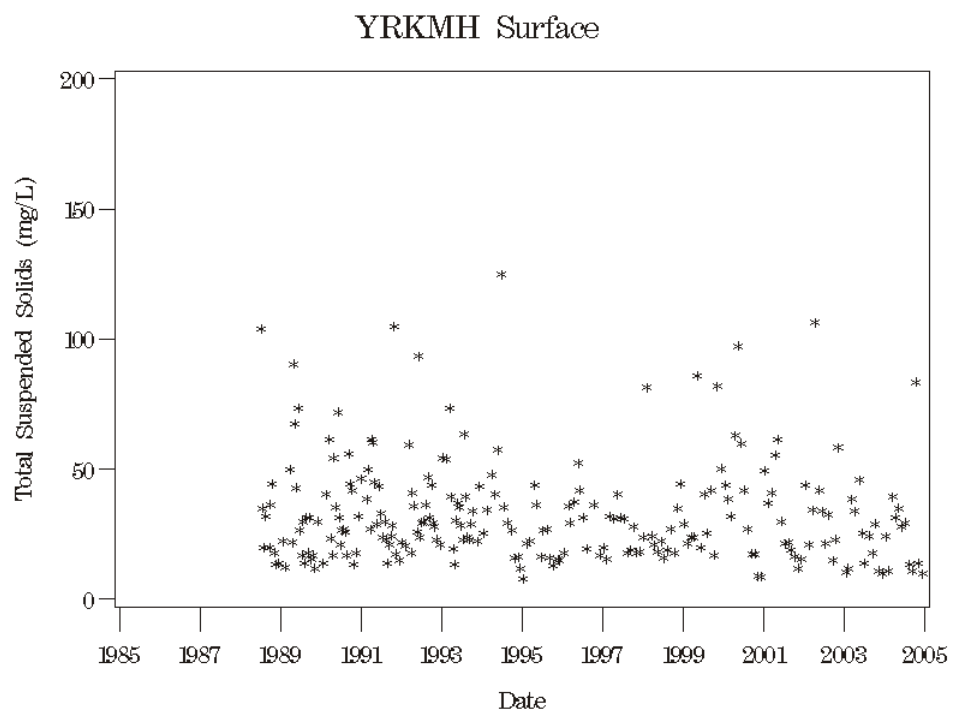


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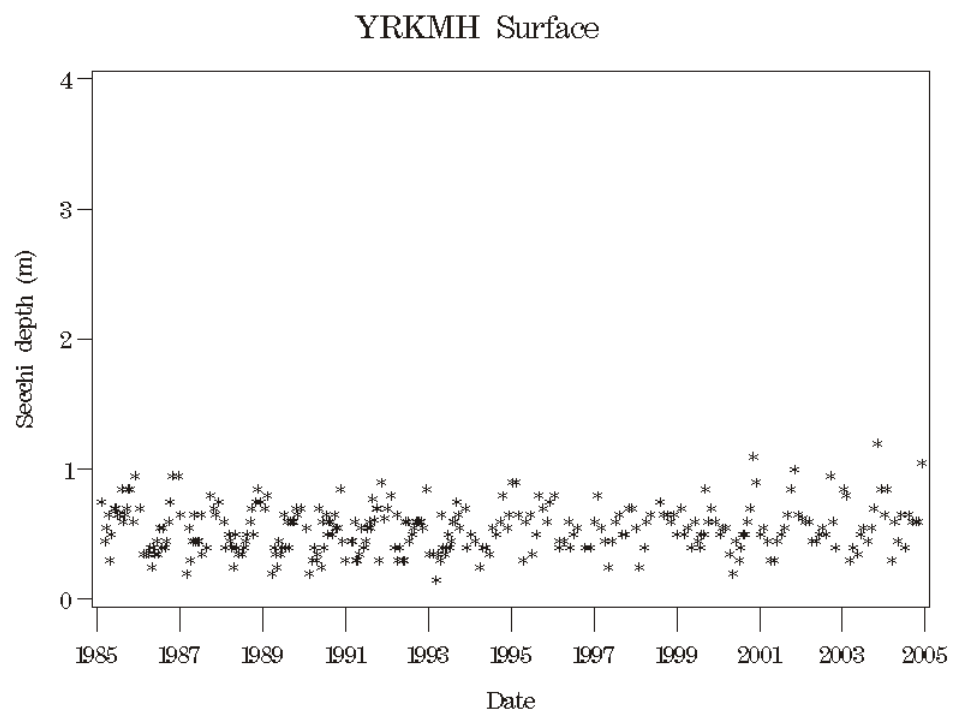


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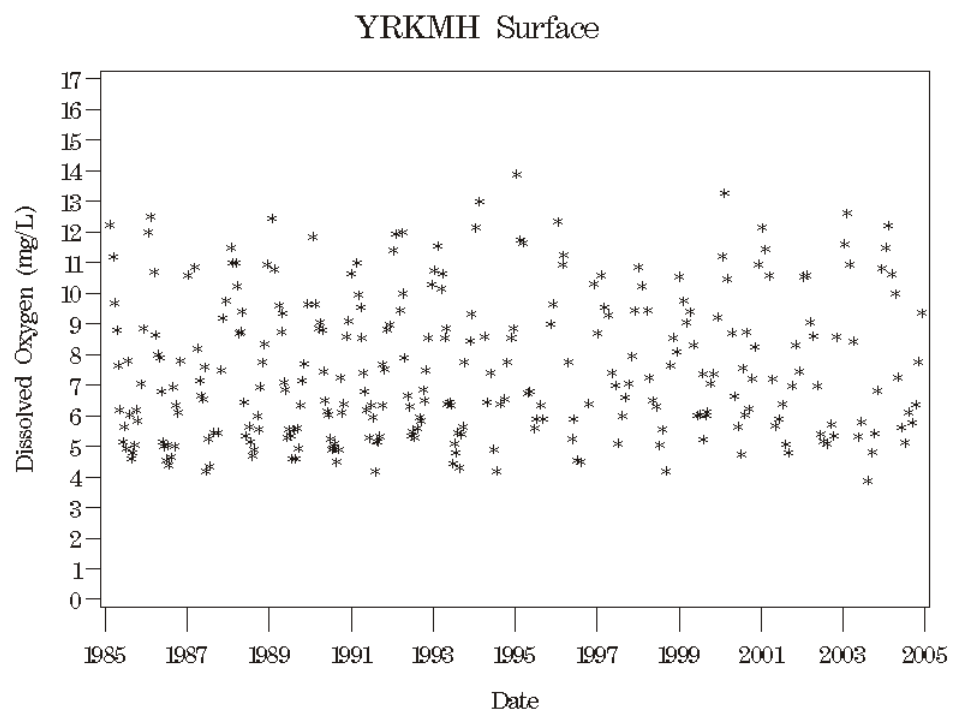


Figure 80. Scatterplot of surface dissolved oxygen at segment YRKMH during the period 1985 to 2004.

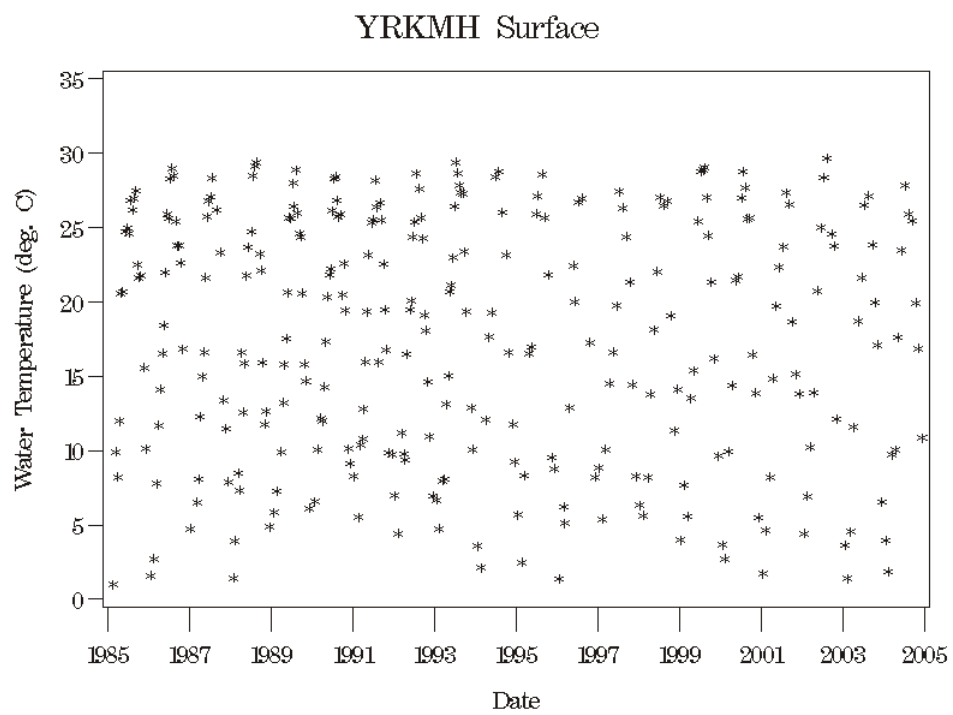


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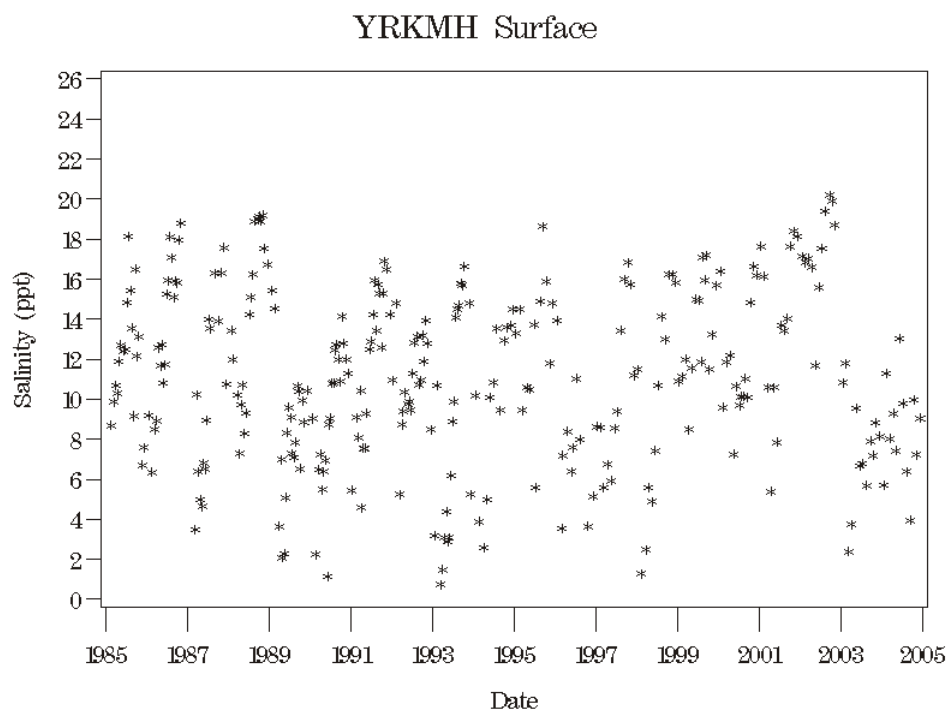
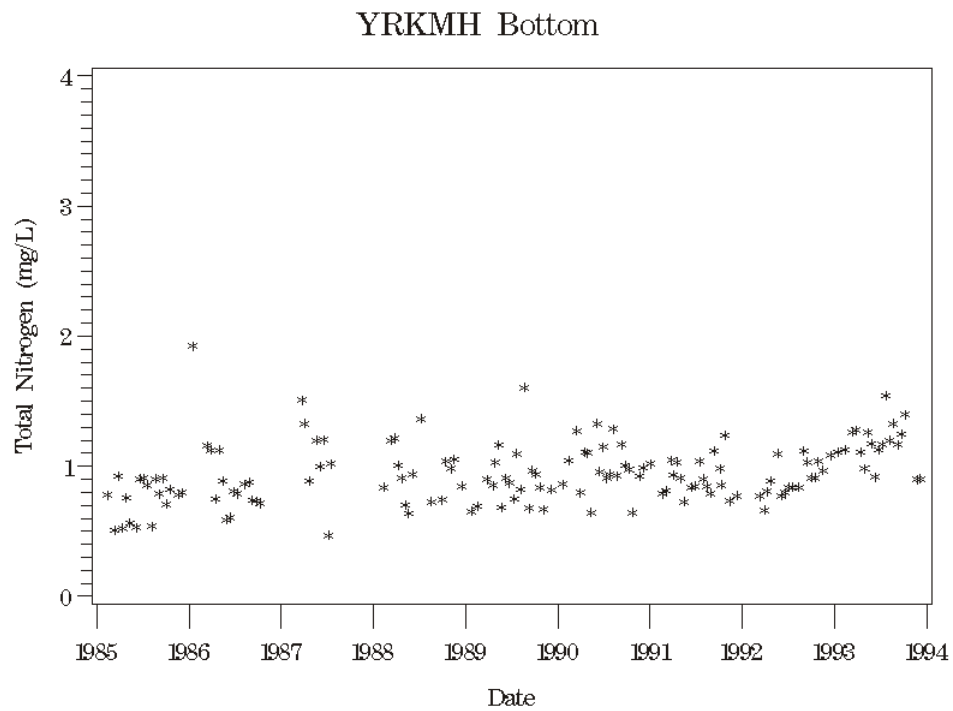


Figure 82. Scatterplot of surface salinity at segment YRKMH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

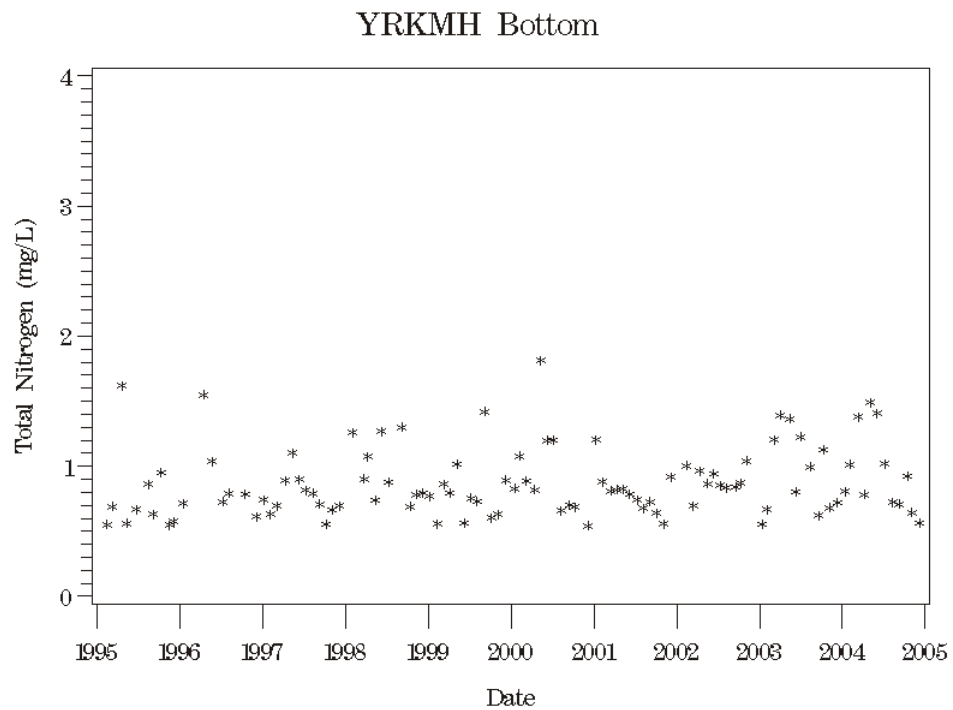
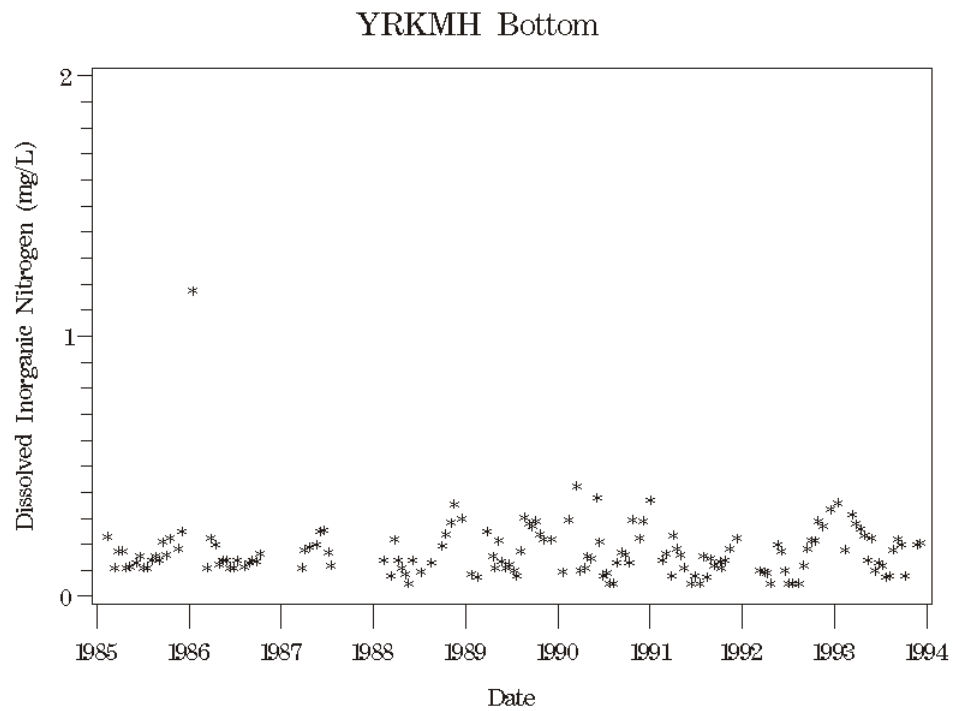


Figure 83. Scatterplots of bottom total nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

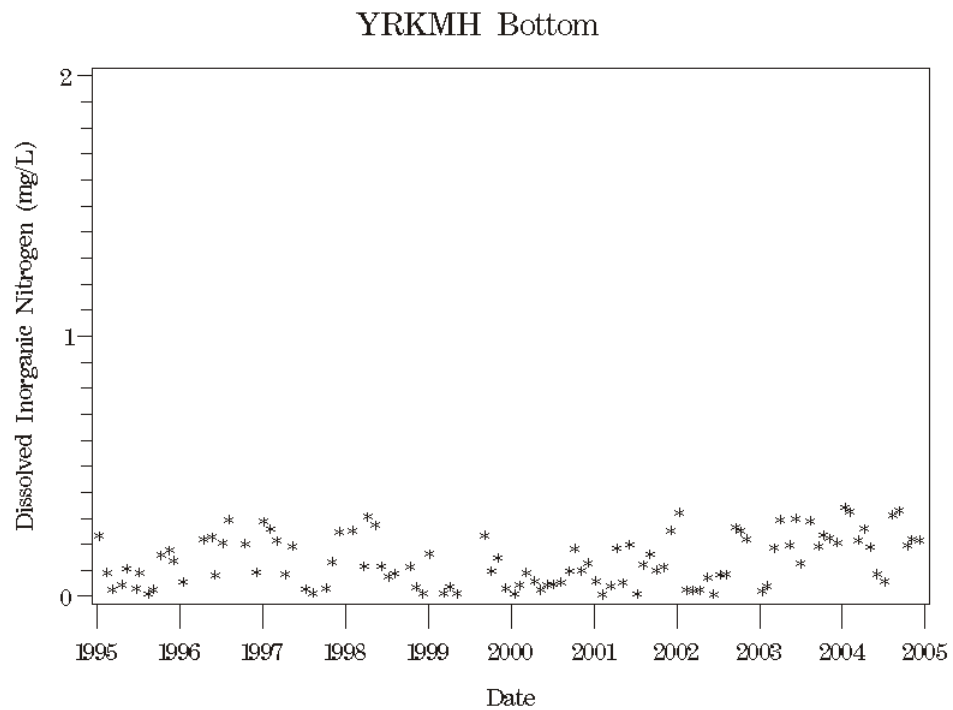
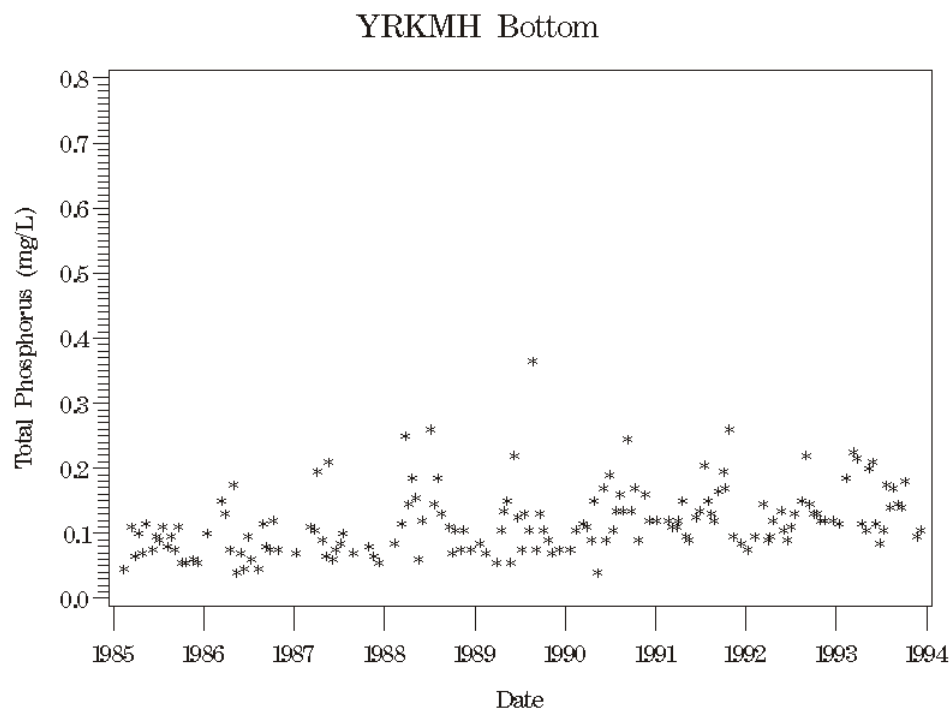


Figure 84. Scatterplots of bottom dissolved inorganic nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

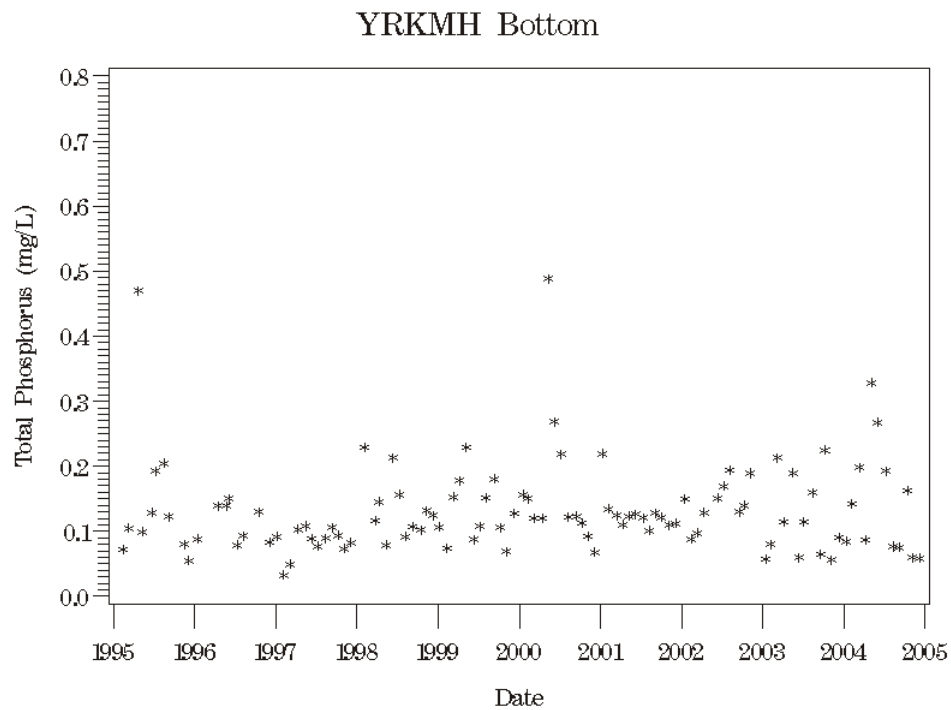
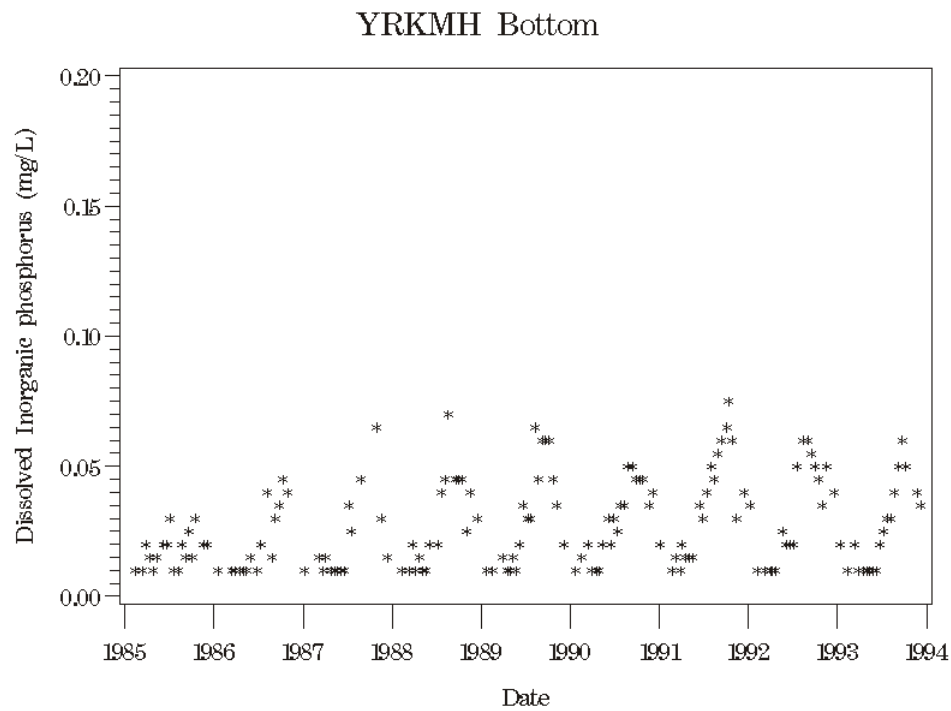


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a) Pre-method change period



b) Post-method change period

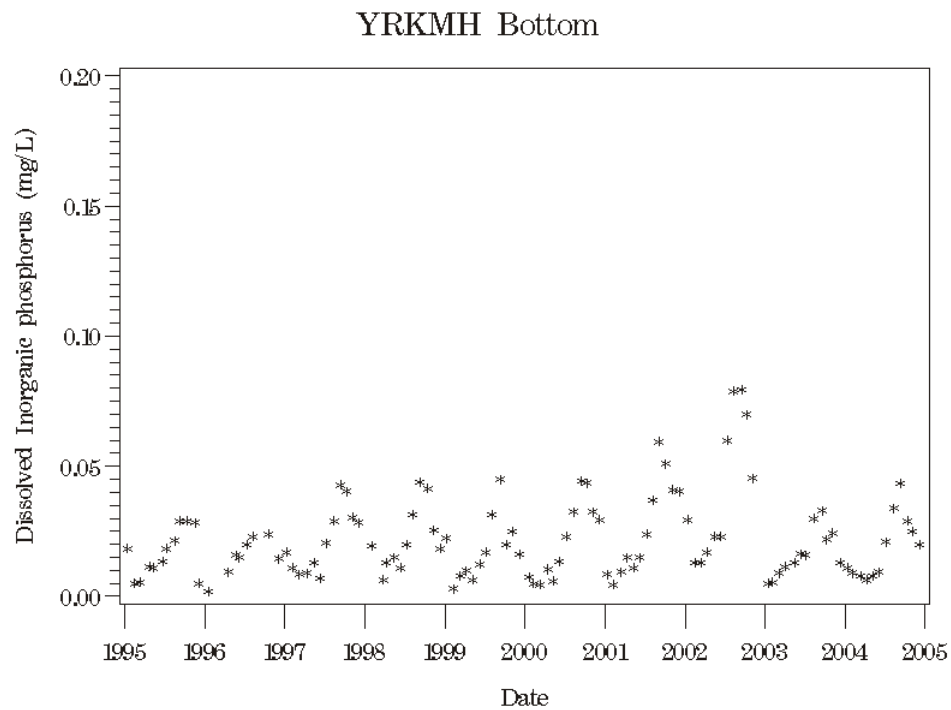


Figure 86. Scatterplots of bottom dissolved inorganic phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

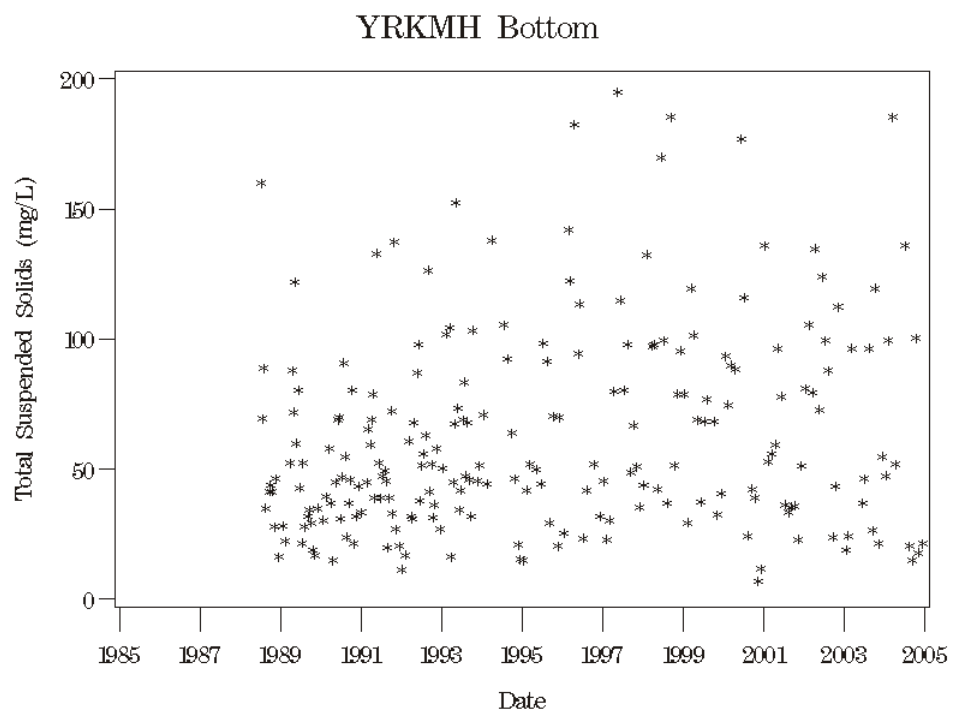


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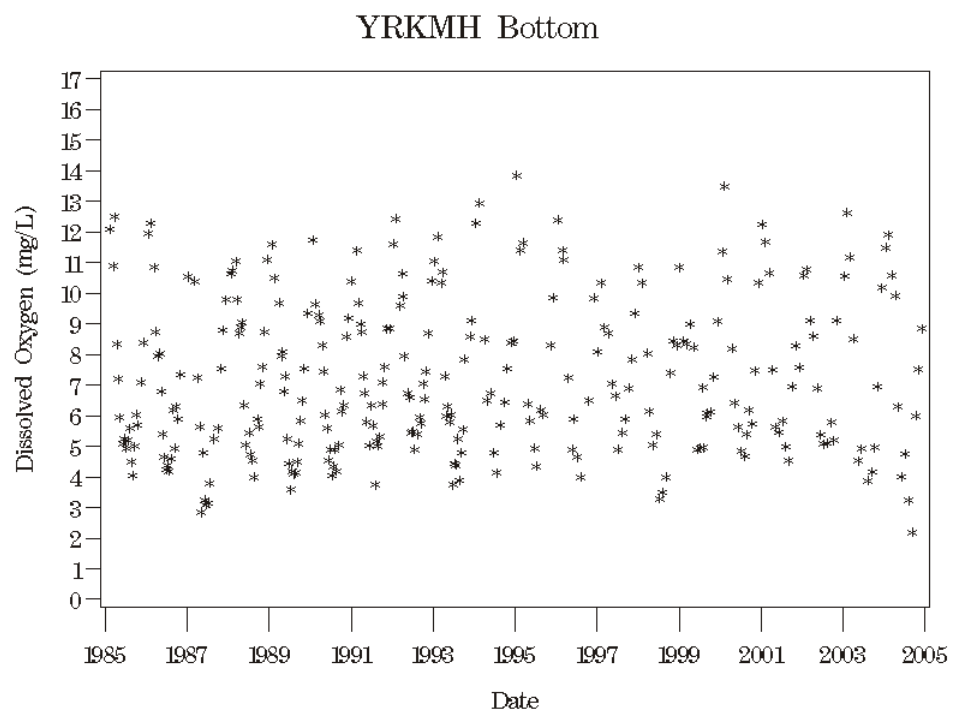


Figure 88. Scatterplot of bottom dissolved oxygen at segment YRKMH during the period 1985 to 2004.

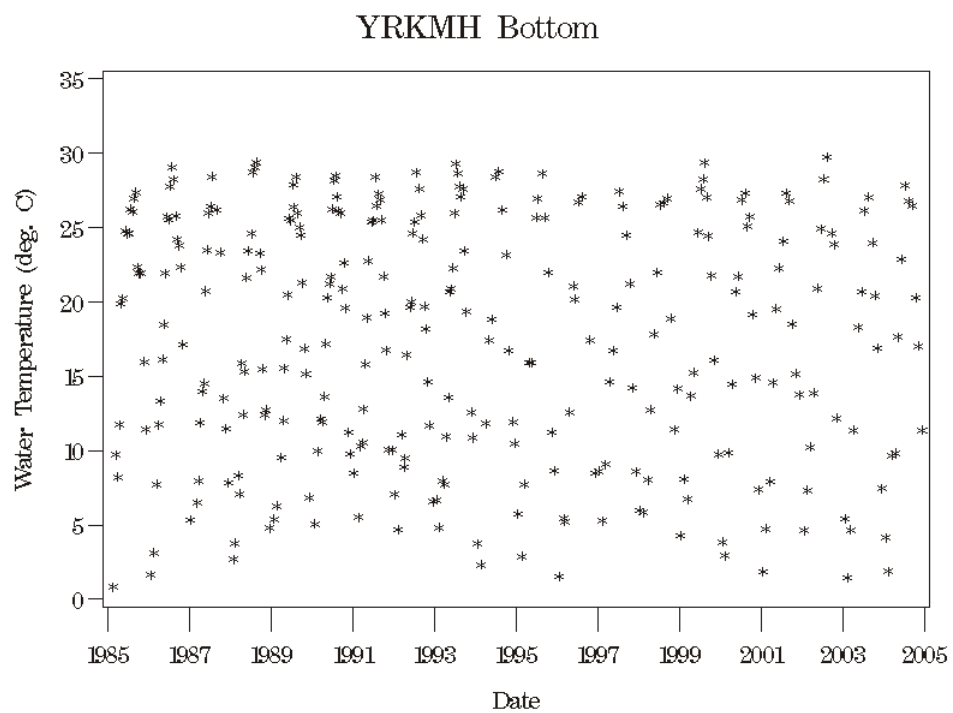


Figure 89. Scatterplot of bottom water temperature at segment YRKMH during the period 1985 to 2004.

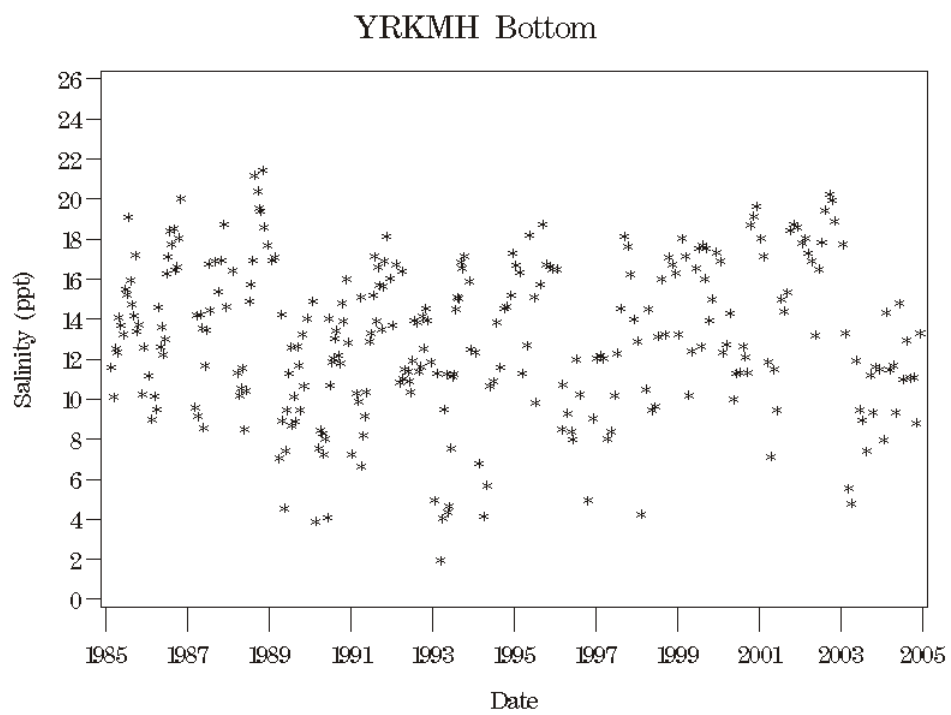
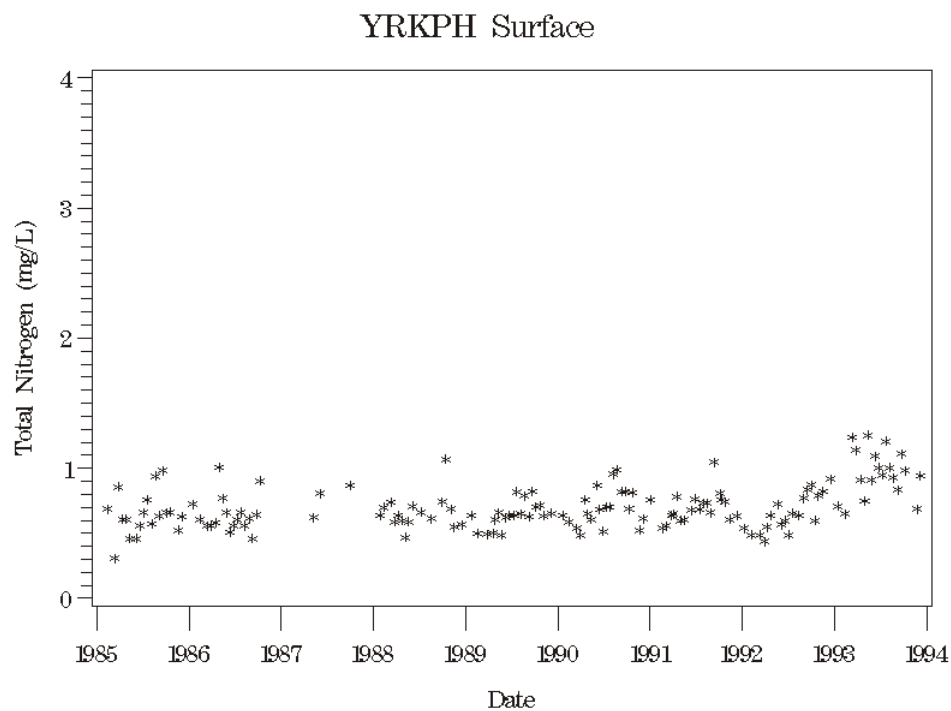


Figure 90. Scatterplot of bottom salinity at segment YRKMH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

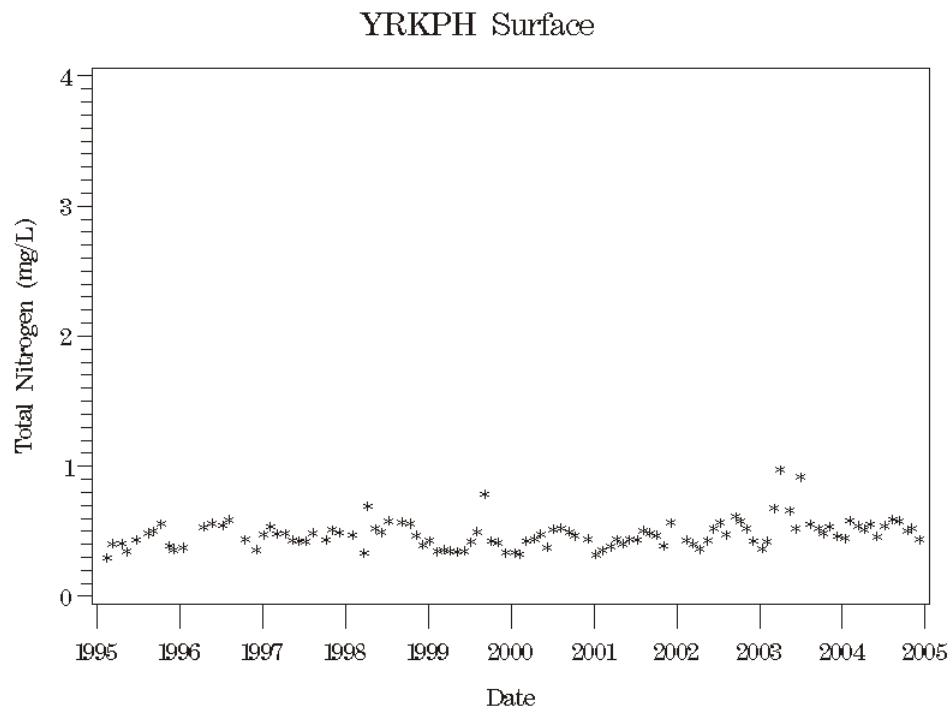
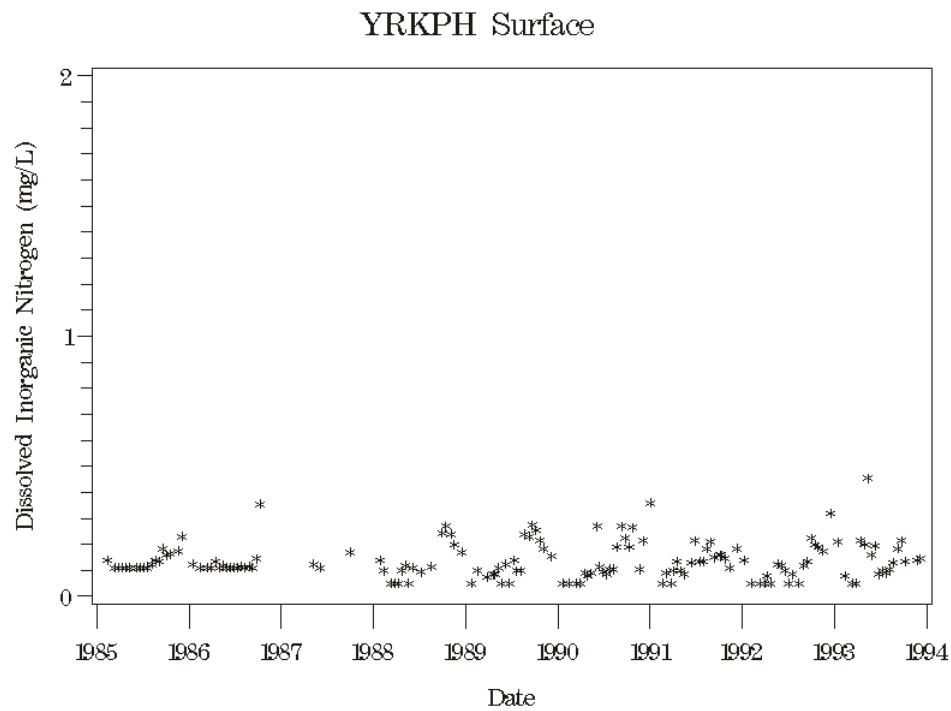


Figure 91. Scatterplots of surface total nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

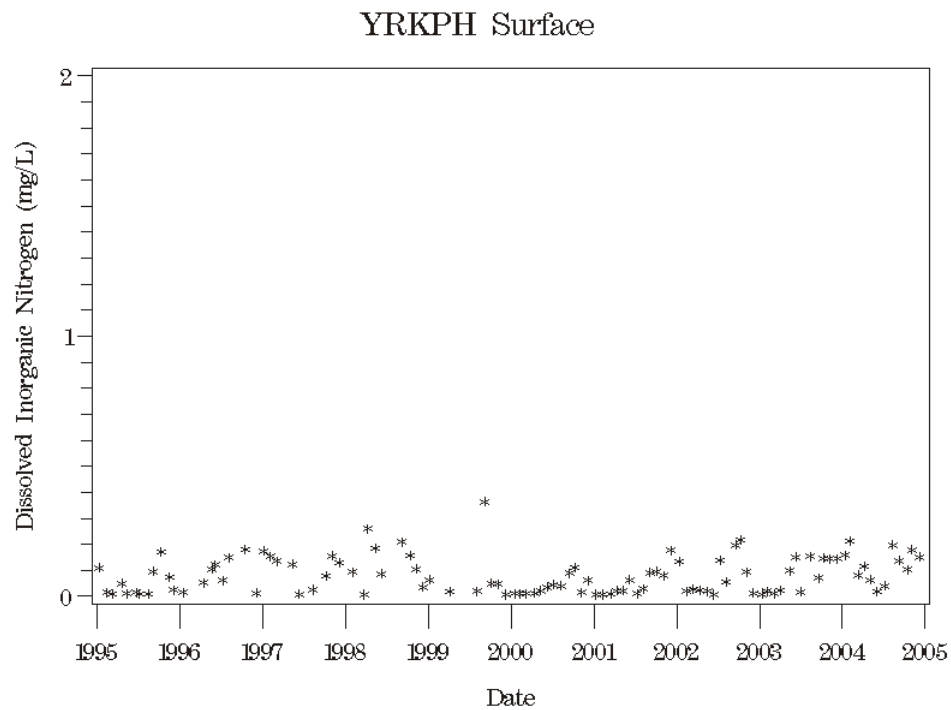
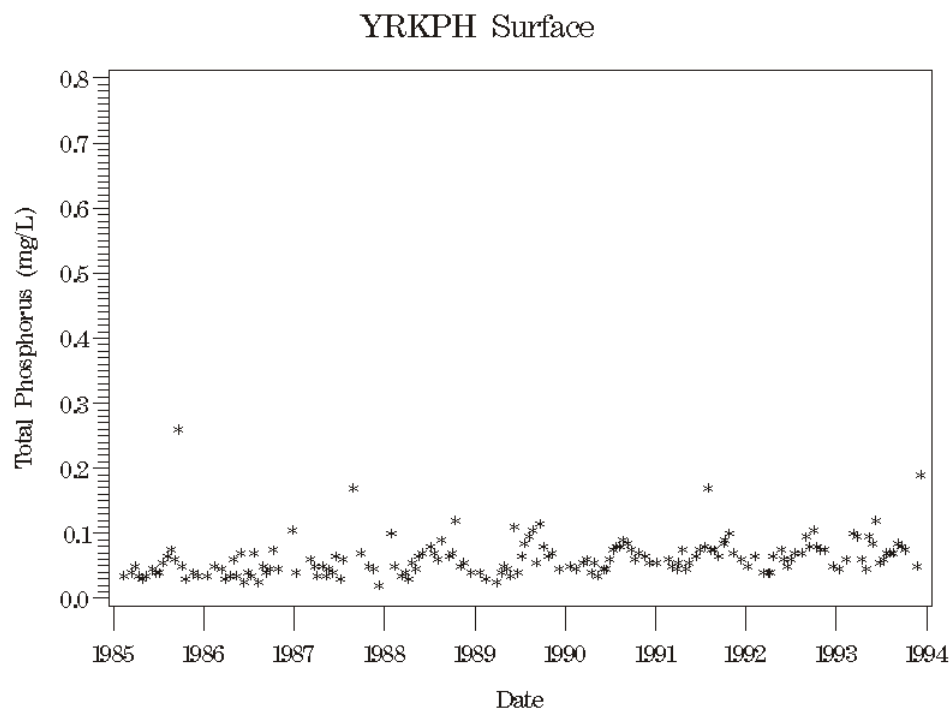


Figure 92. Scatterplots of surface dissolved inorganic nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

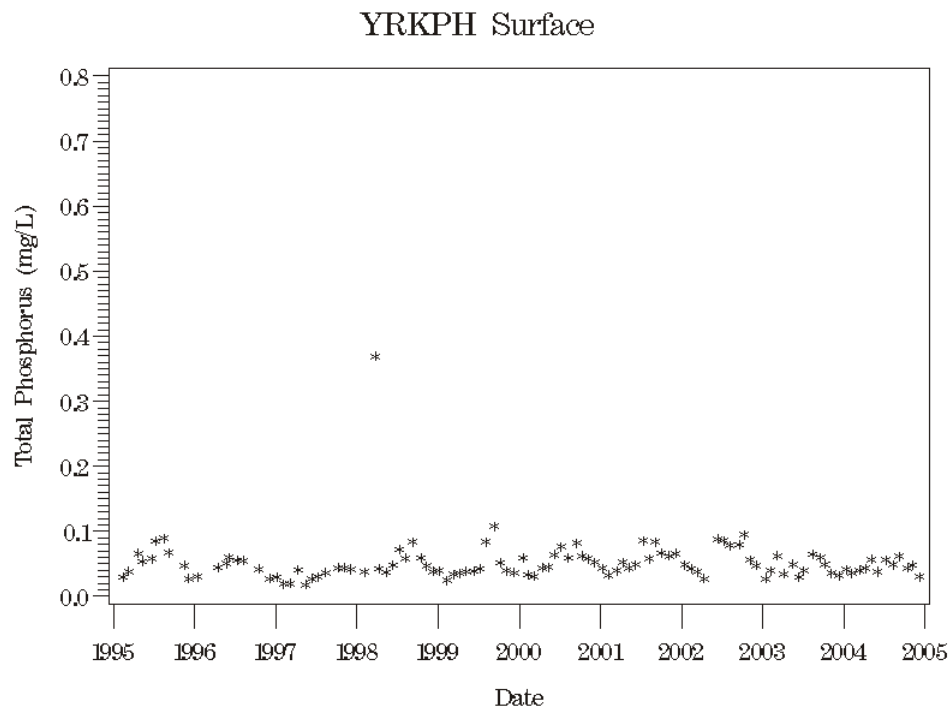
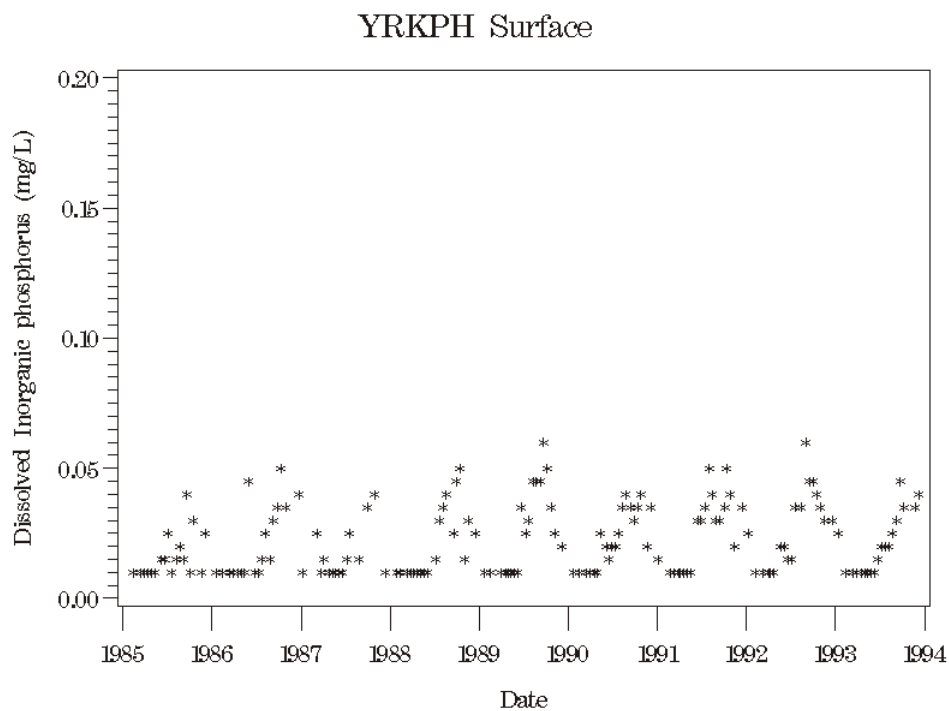


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a) Pre-method change period



b) Post-method change period

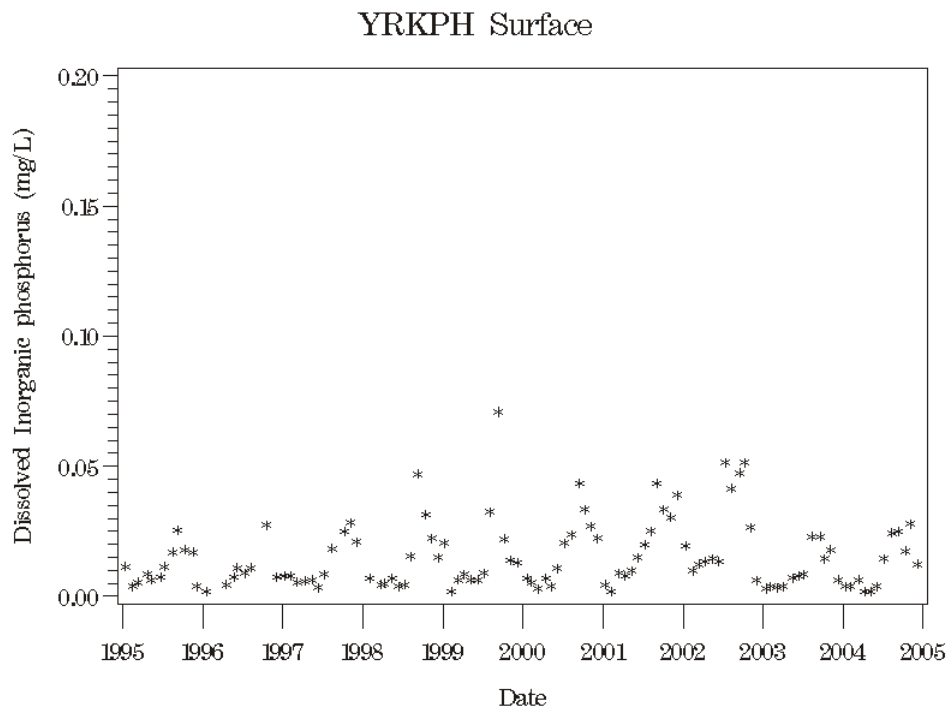


Figure 94. Scatterplots of surface dissolved inorganic phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

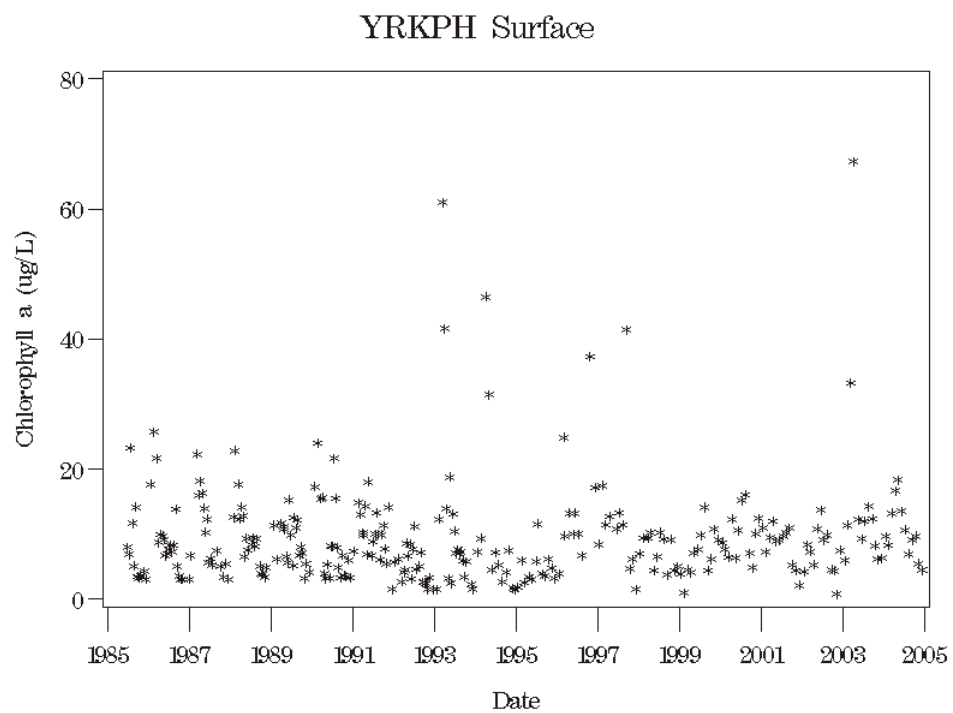


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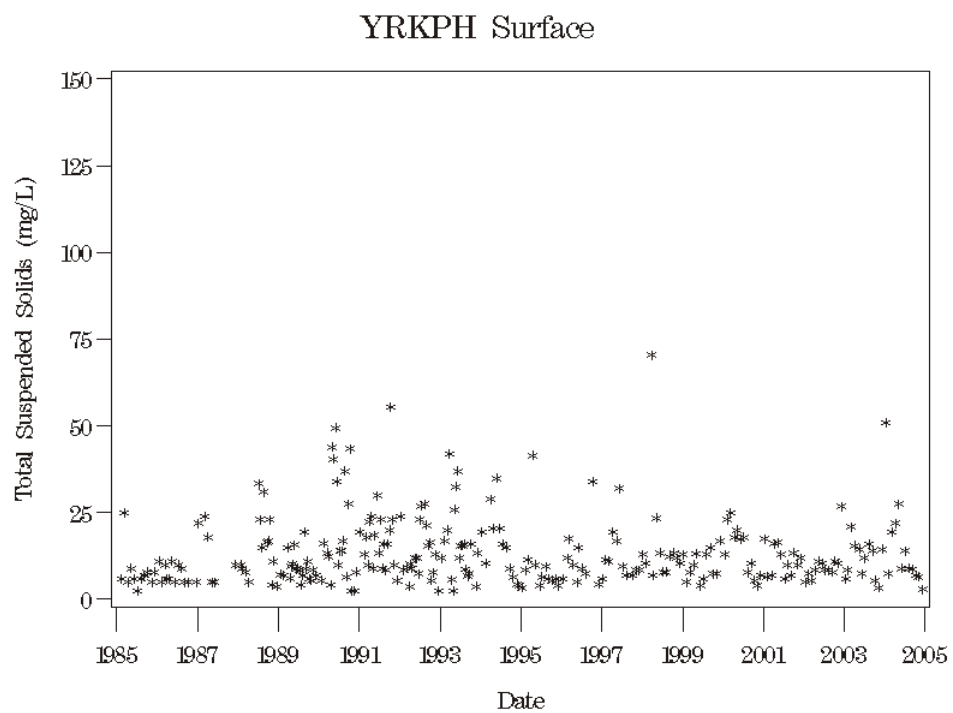


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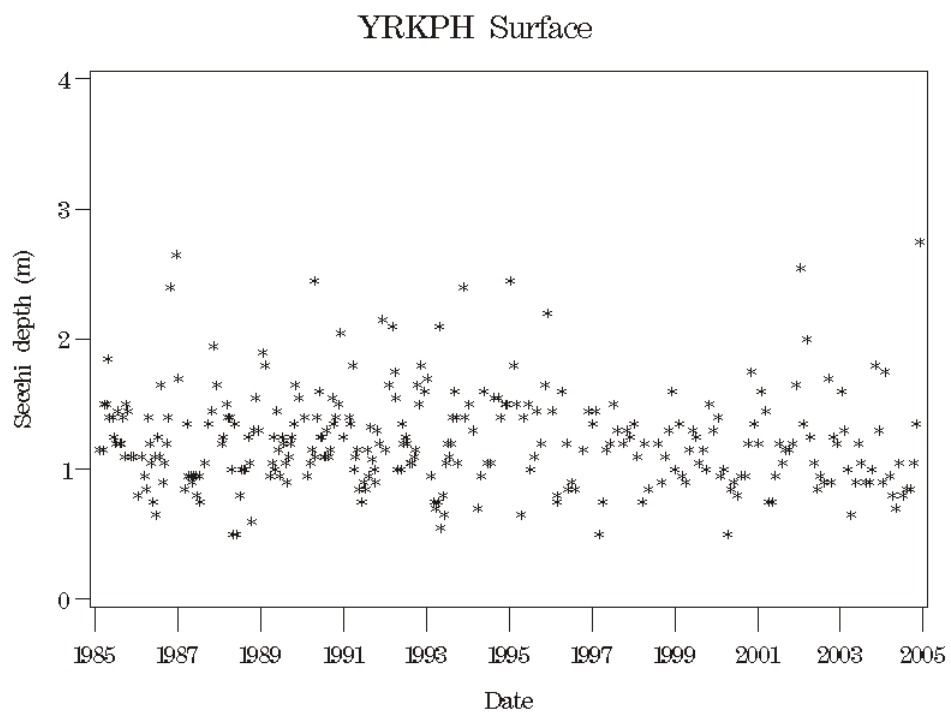


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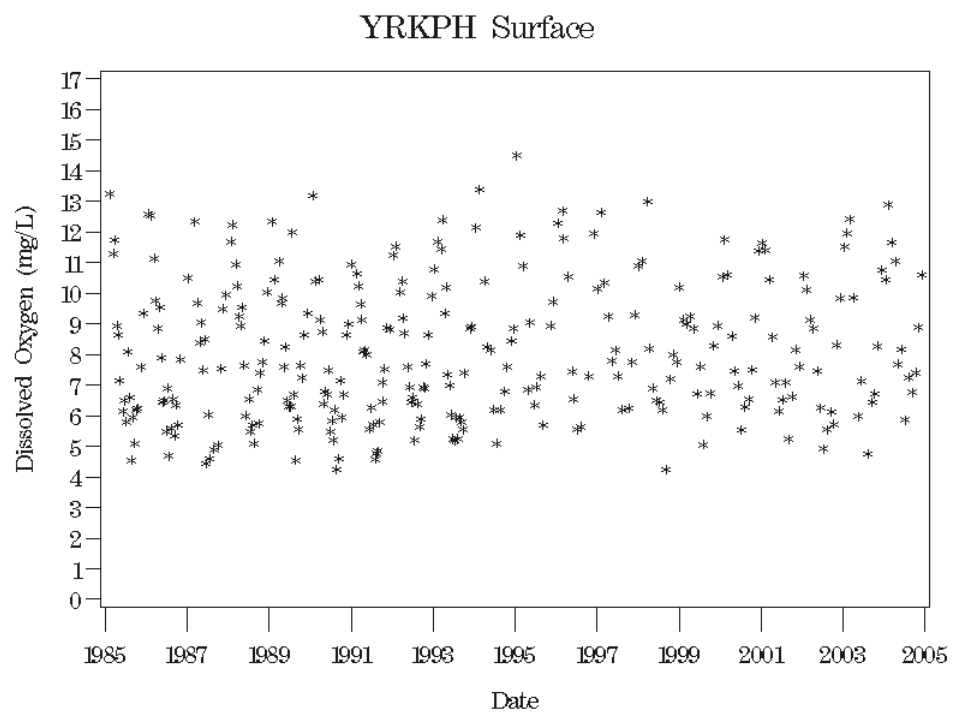


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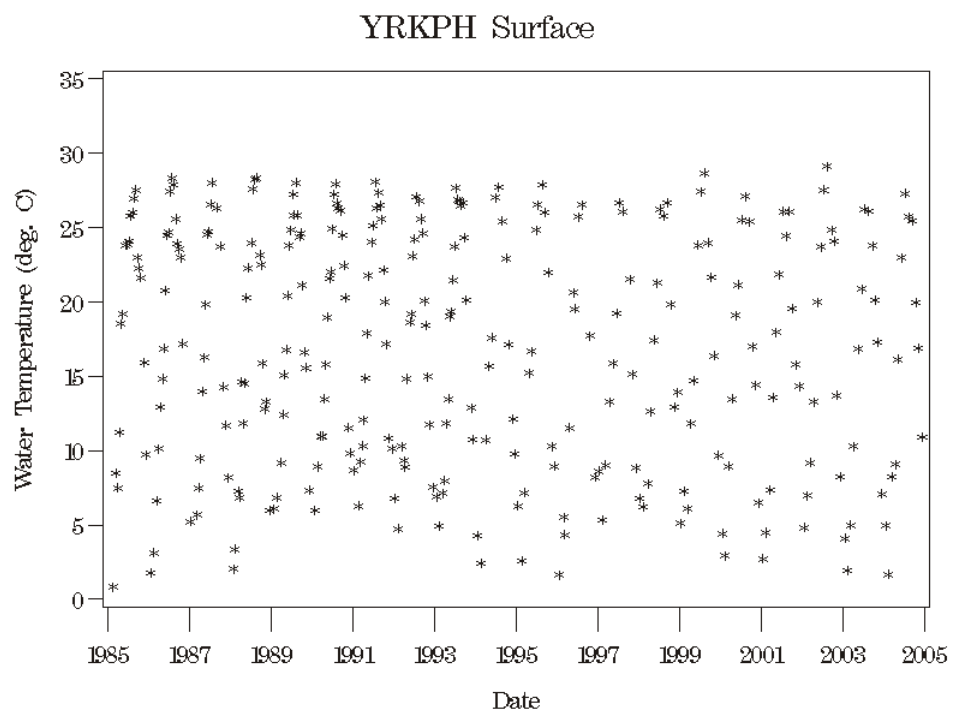


Figure 99. Scatterplot of surface water temperature at segment YRKPH during the period 1985 to 2004.

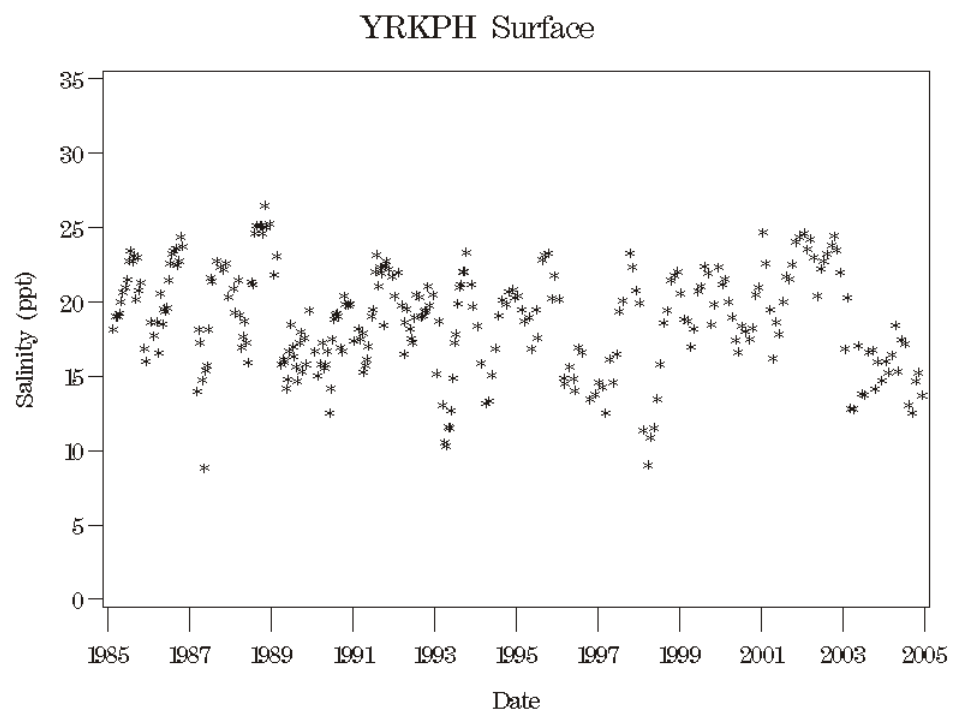
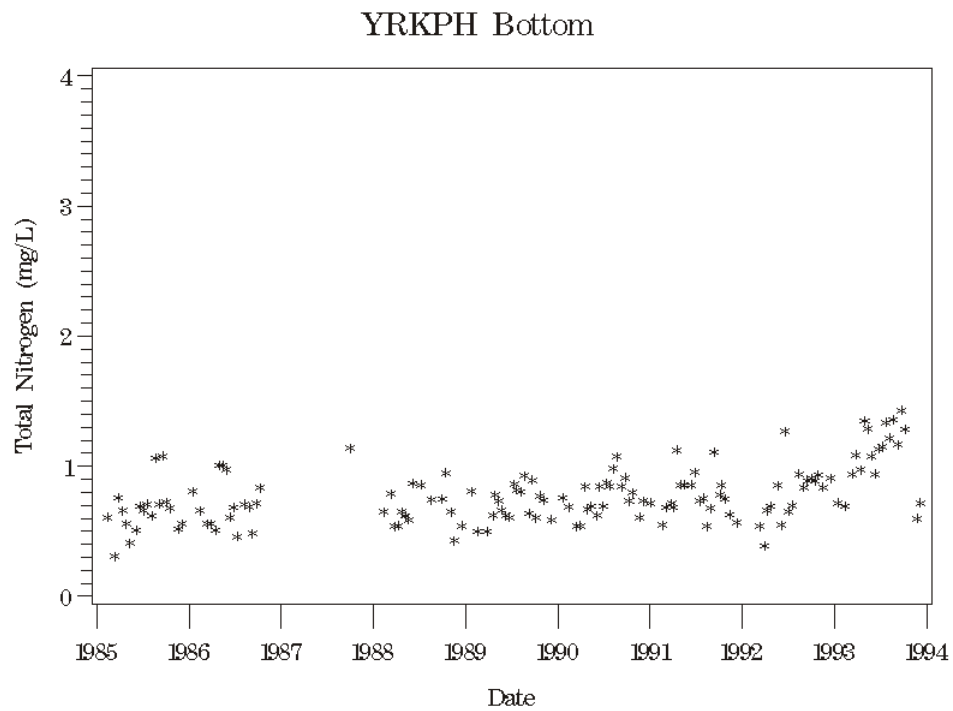


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a) Pre-method change period



b) Post-method change period

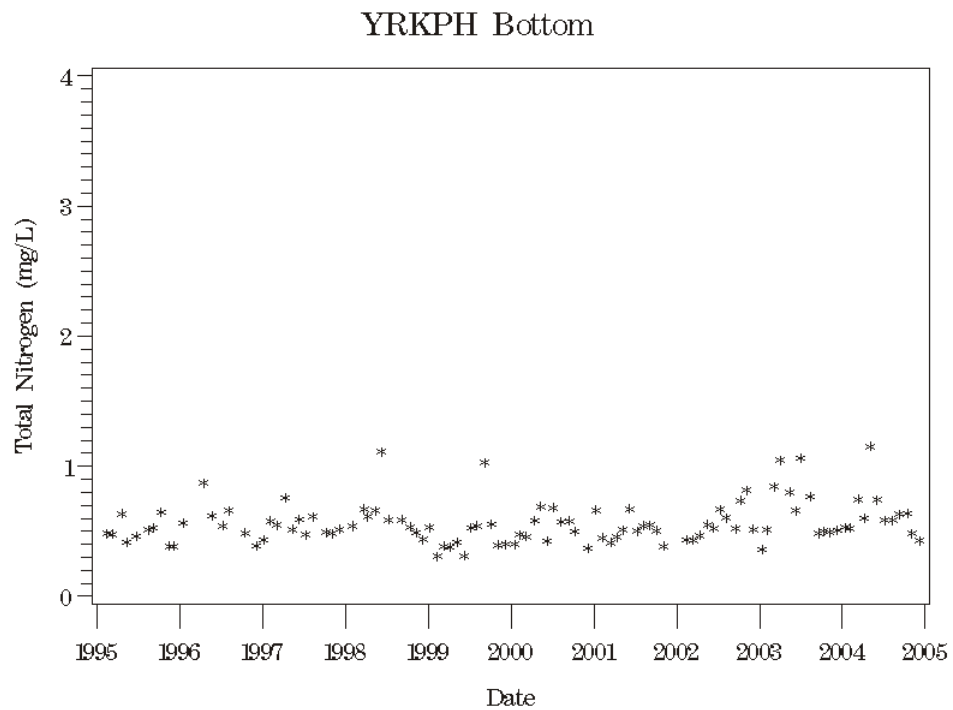
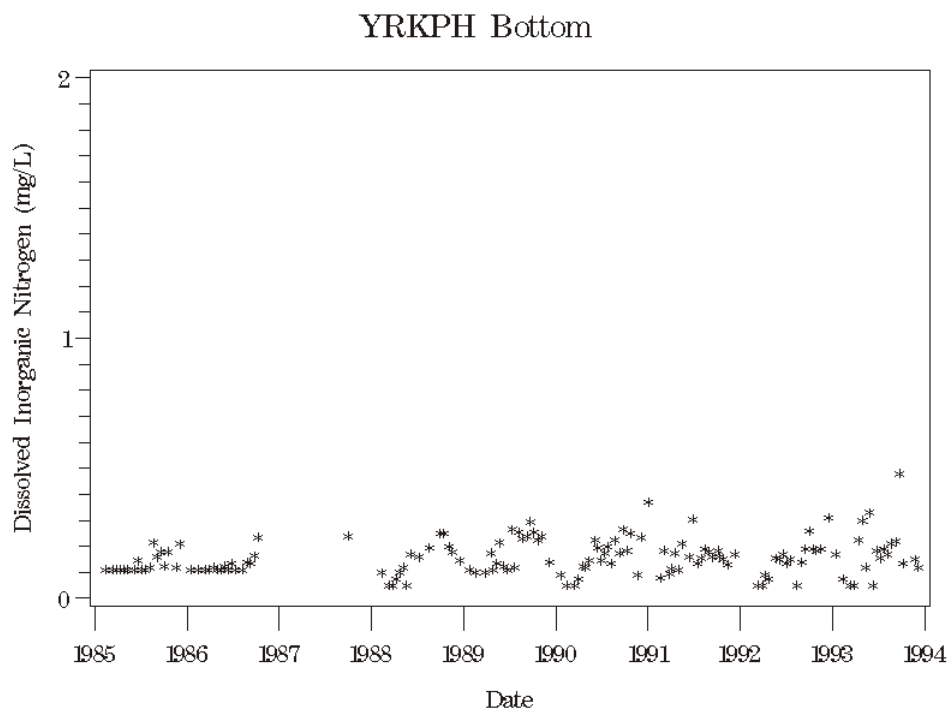


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a) Pre-method change period



b) Post-method change period

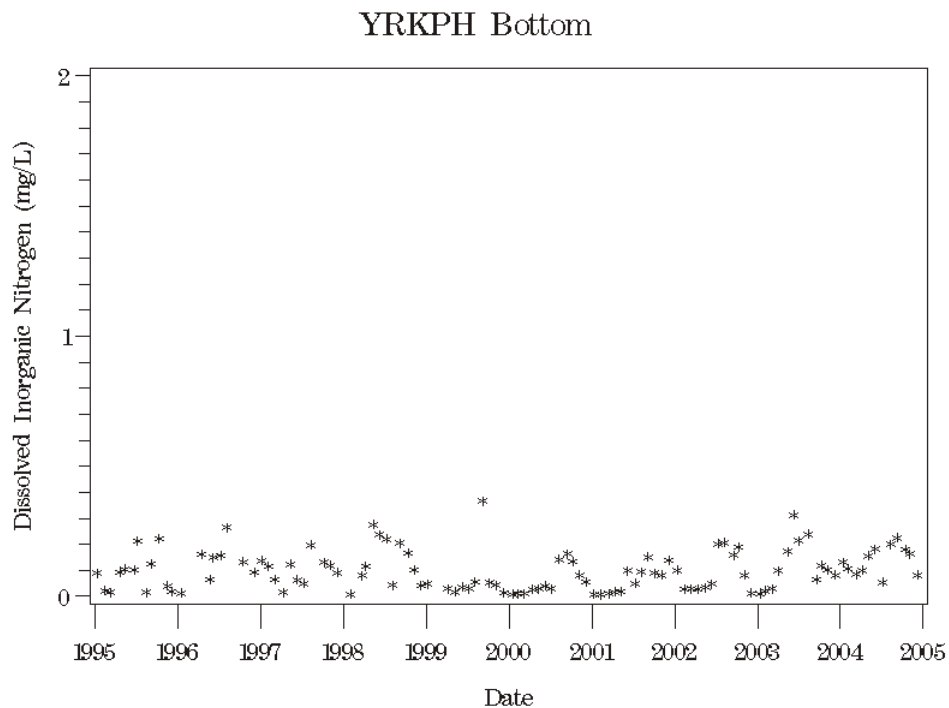
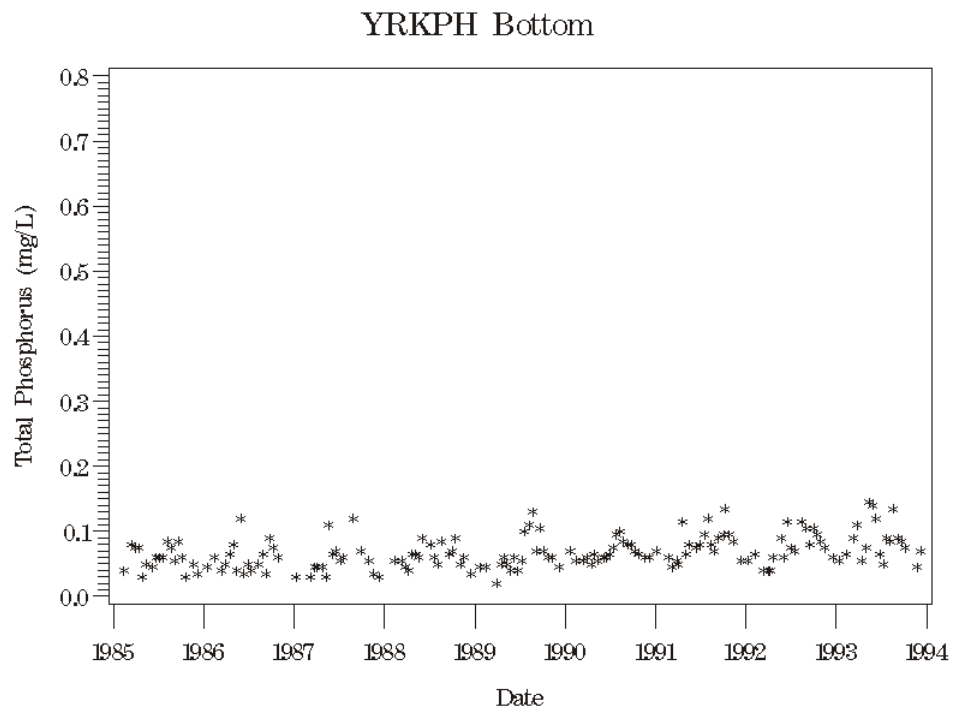


Figure 102. Scatterplots of bottom dissolved inorganic nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

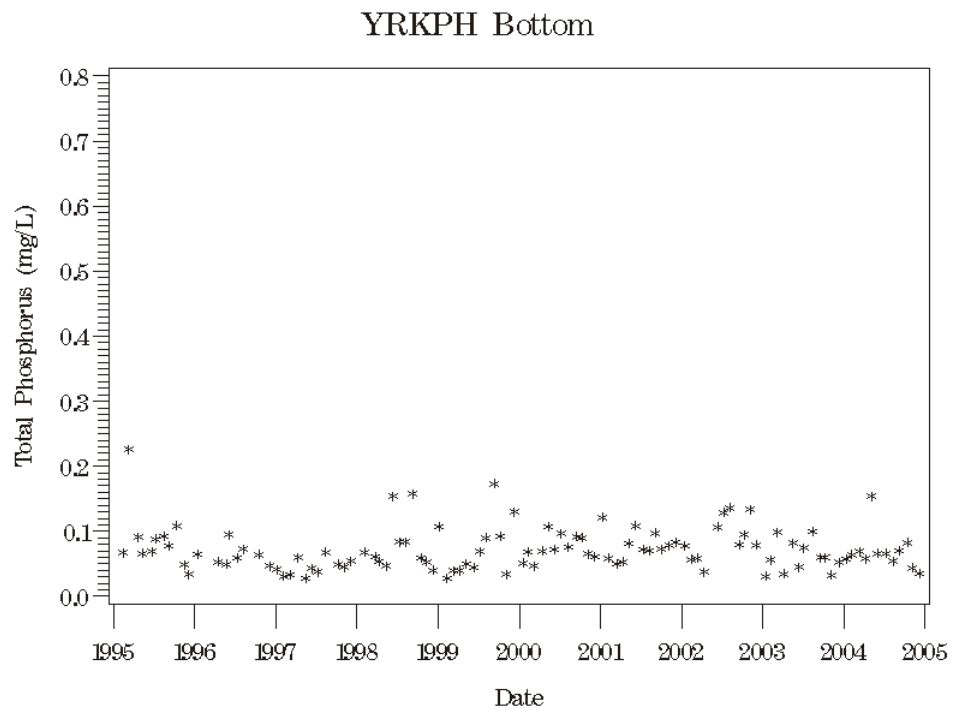
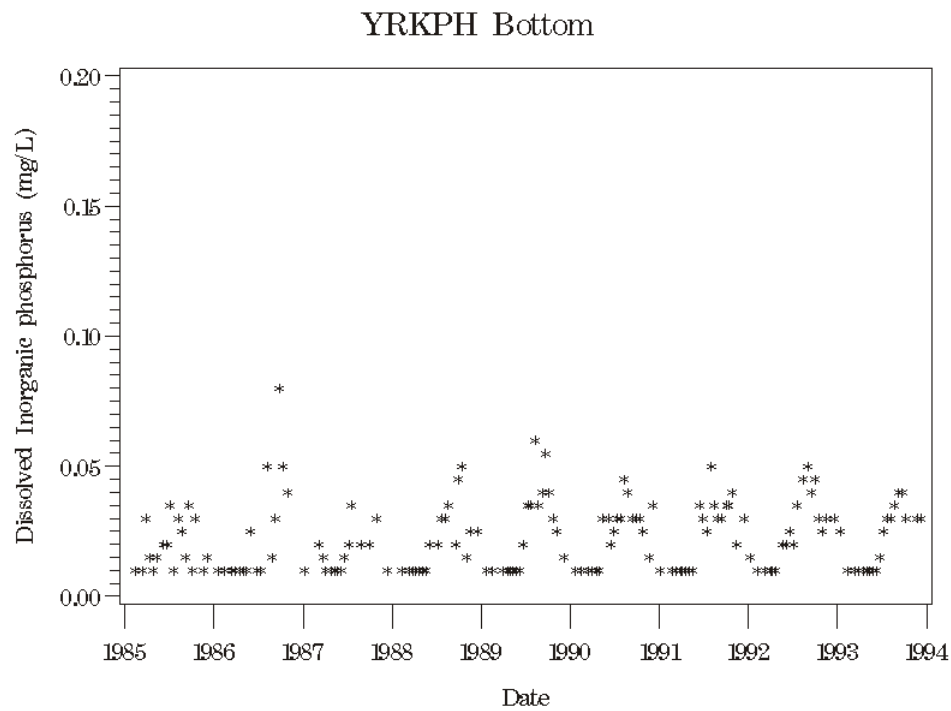


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a) Pre-method change period



b) Post-method change period

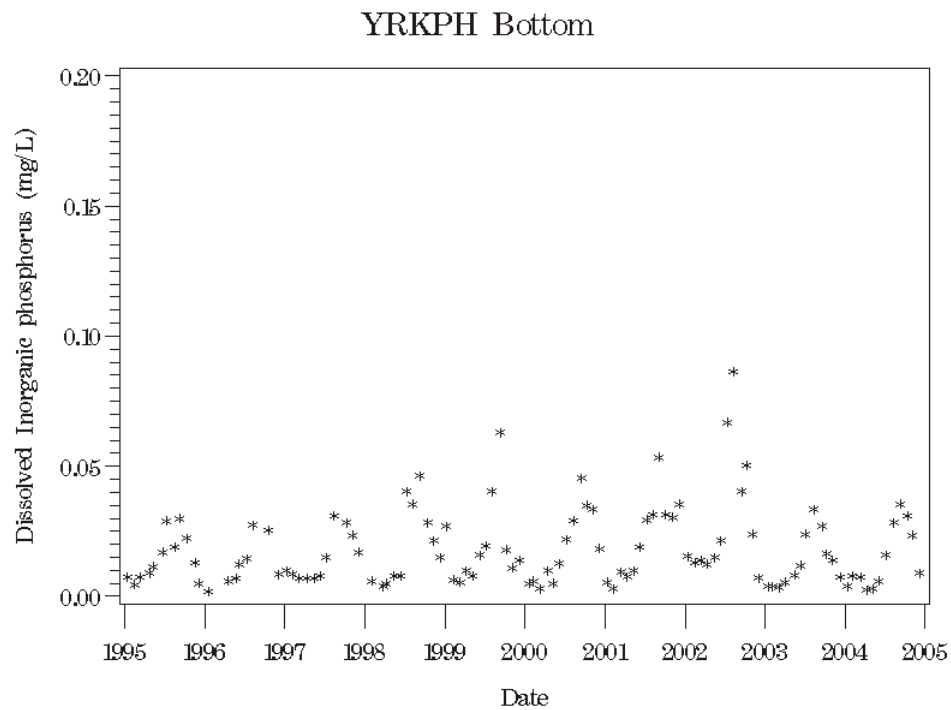


Figure 104. Scatterplots of bottom dissolved inorganic phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

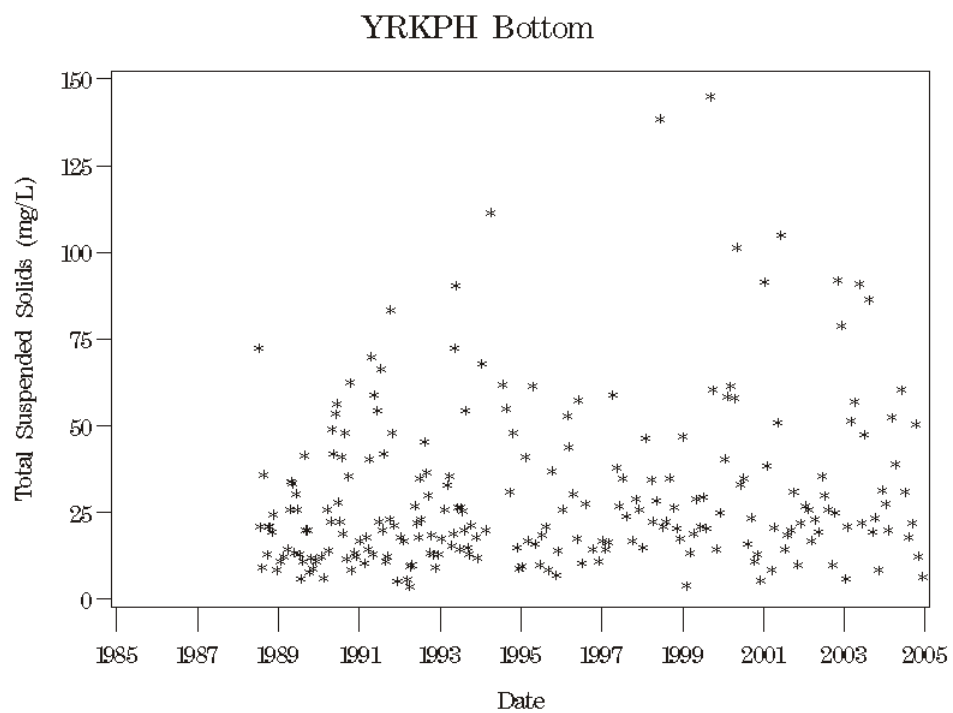


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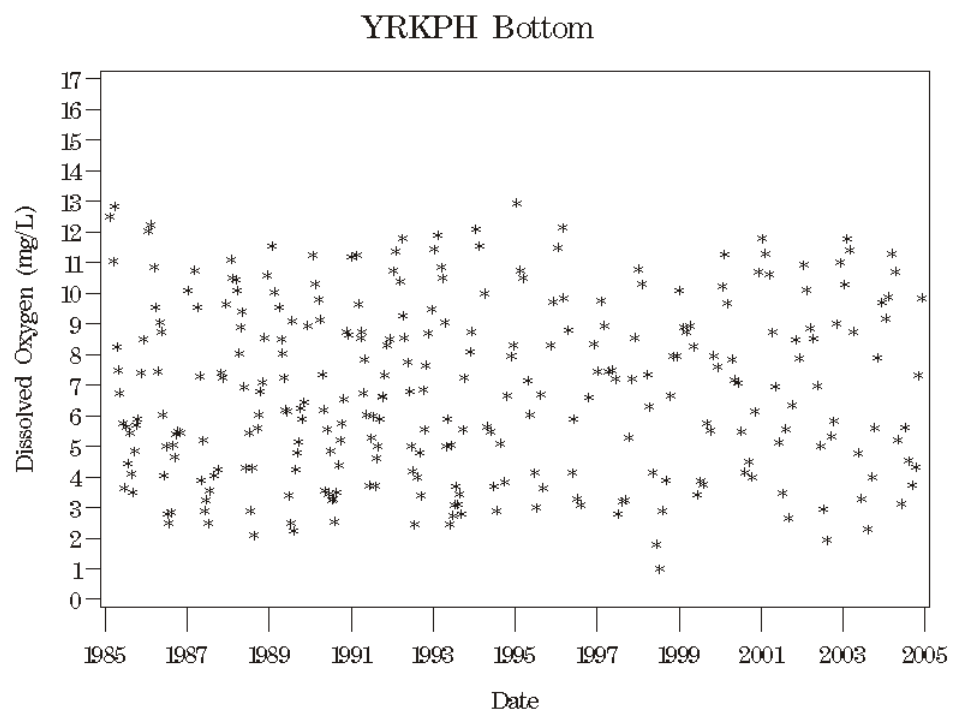


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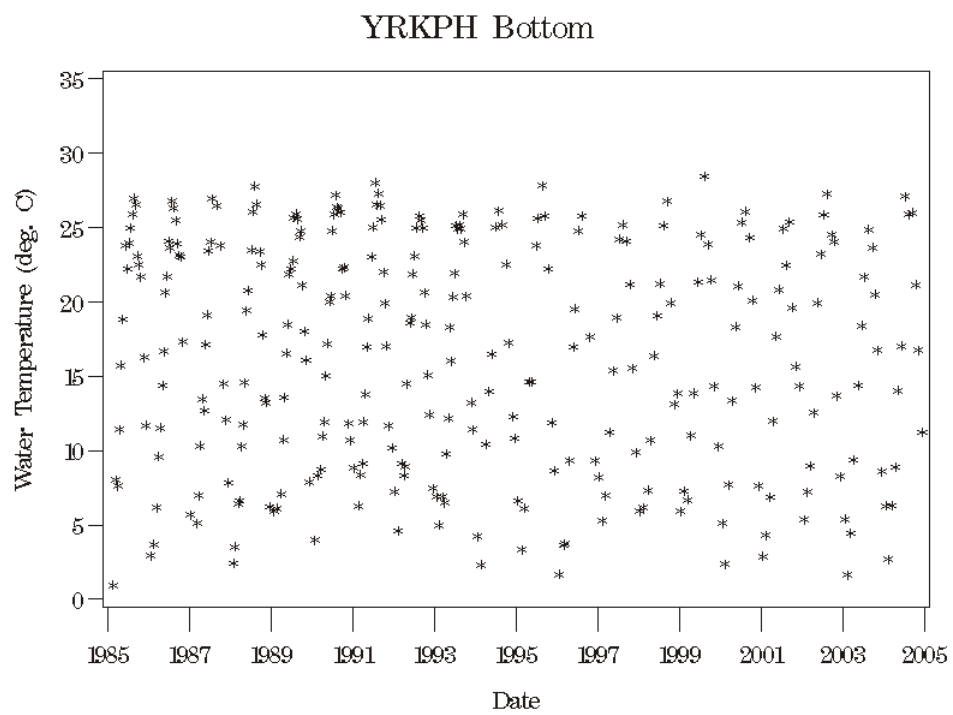


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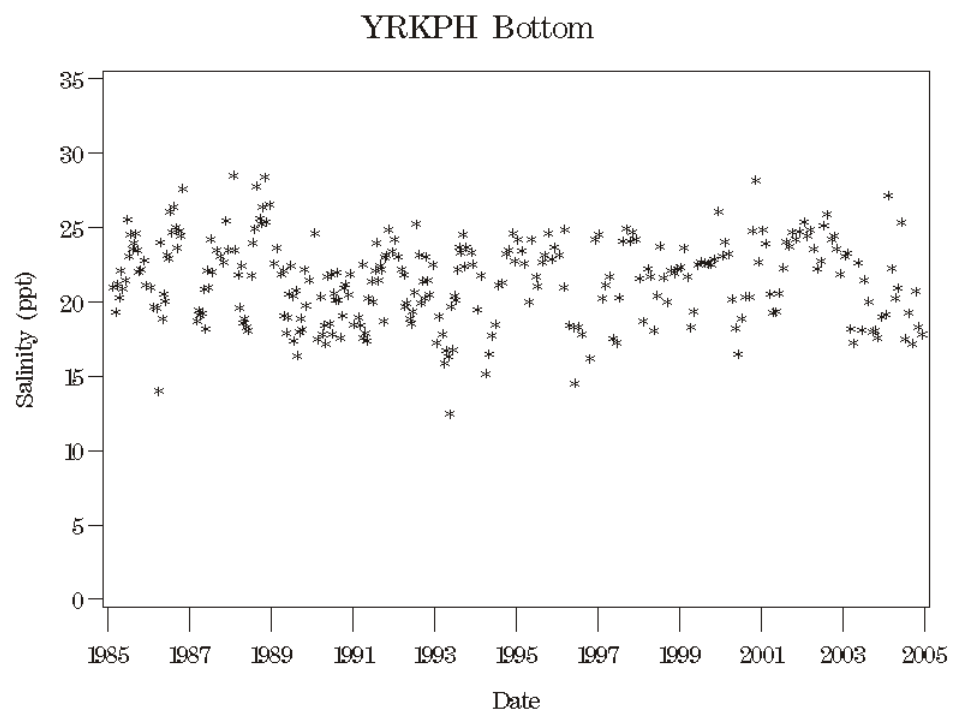


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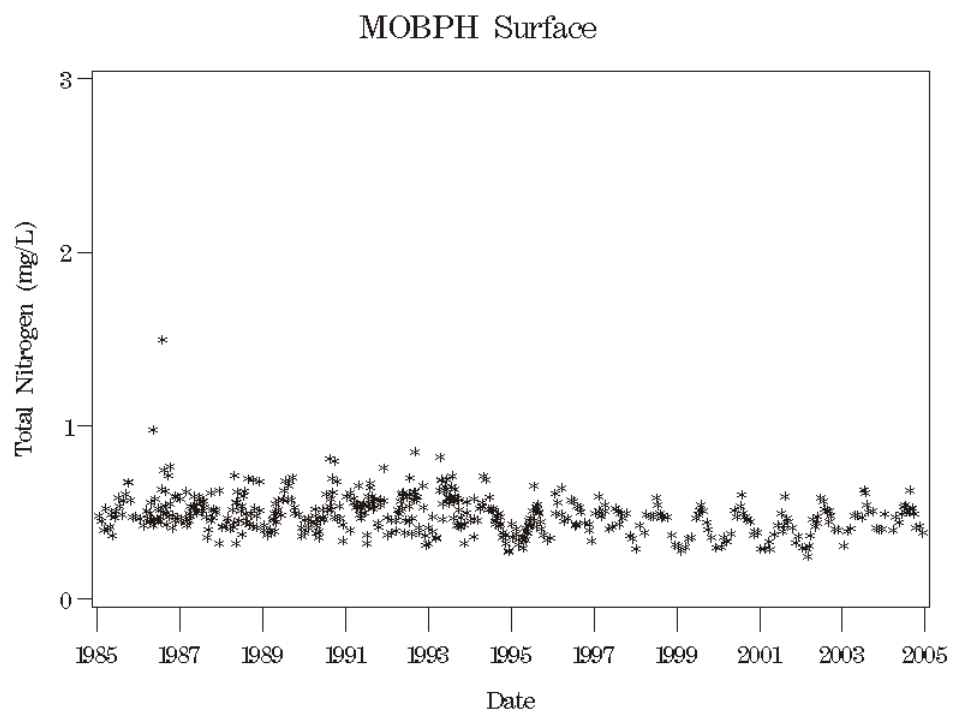


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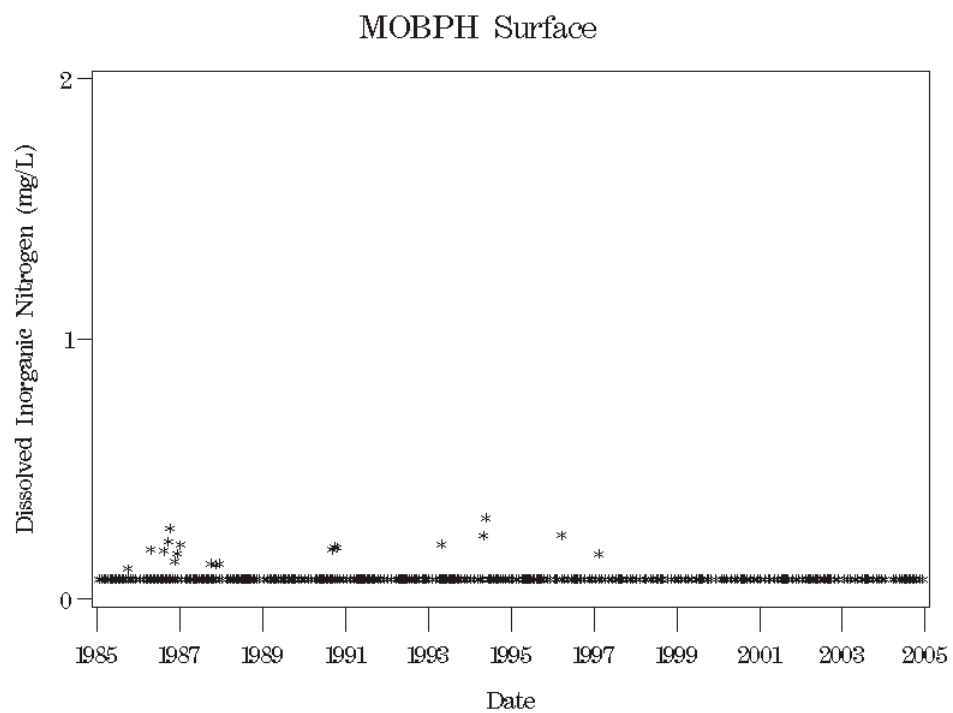


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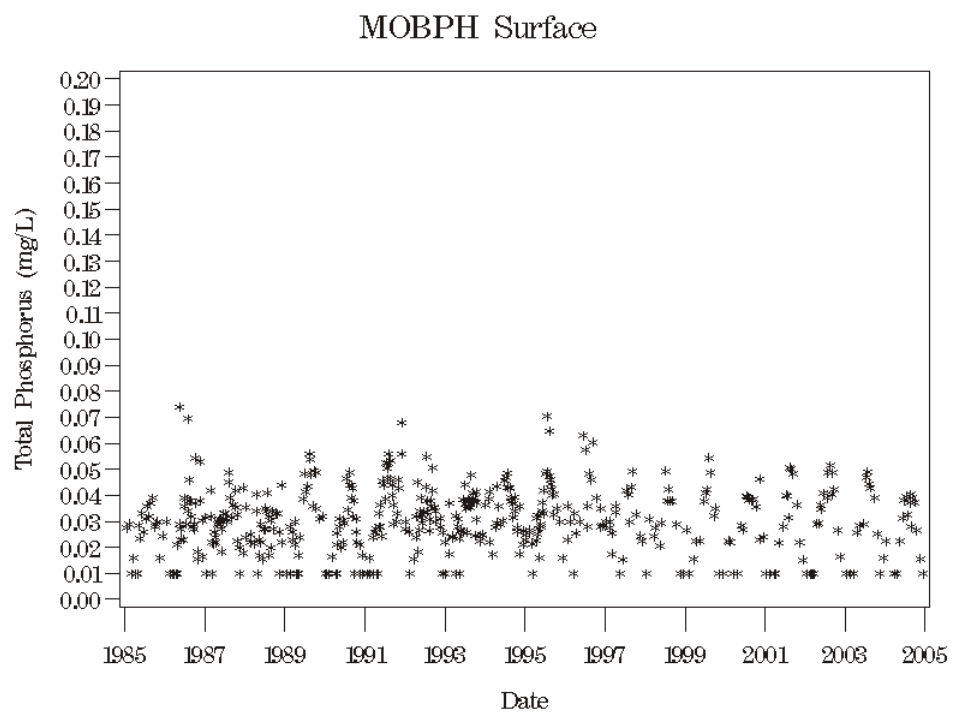


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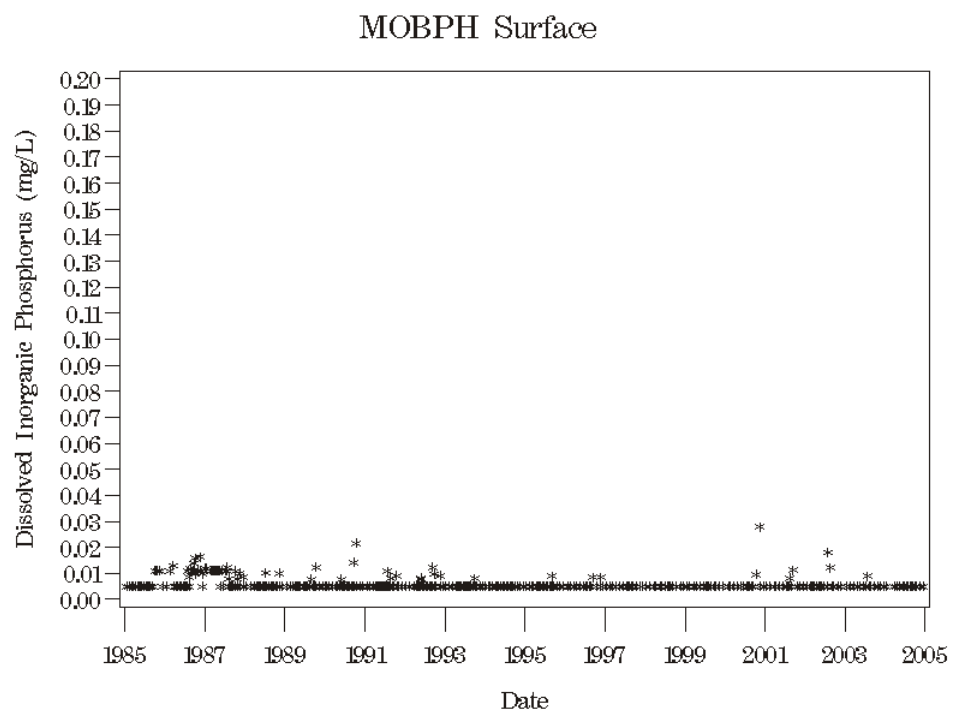


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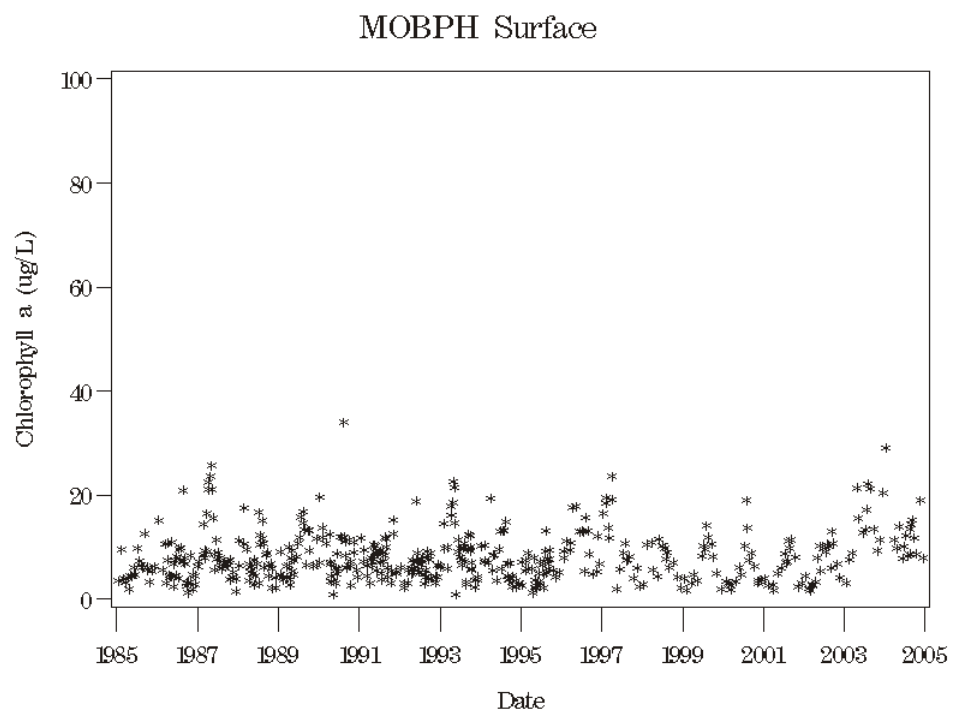


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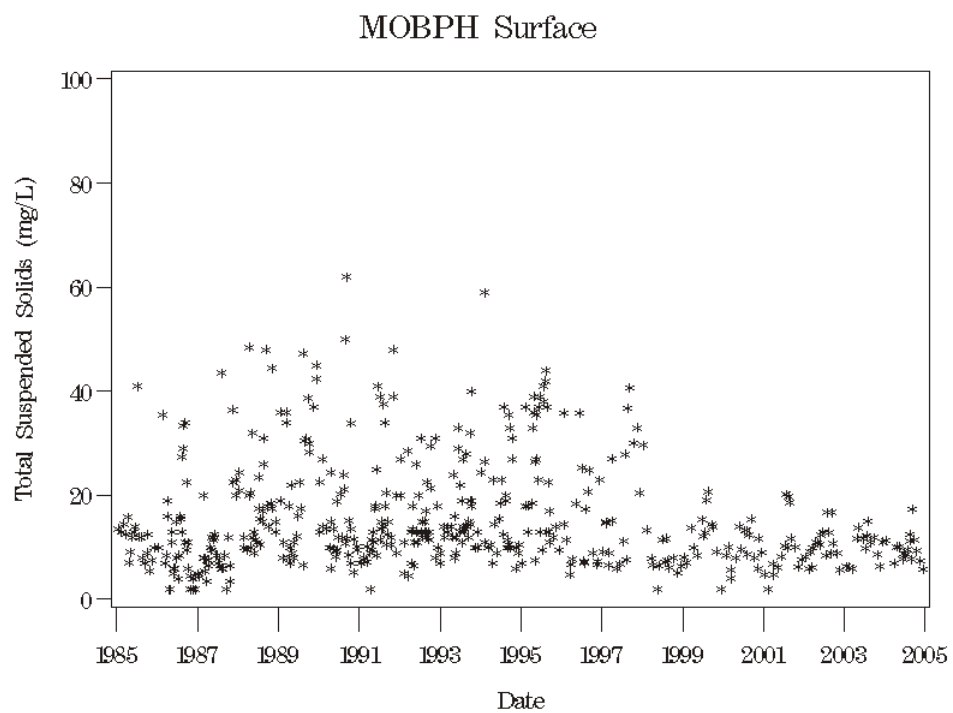


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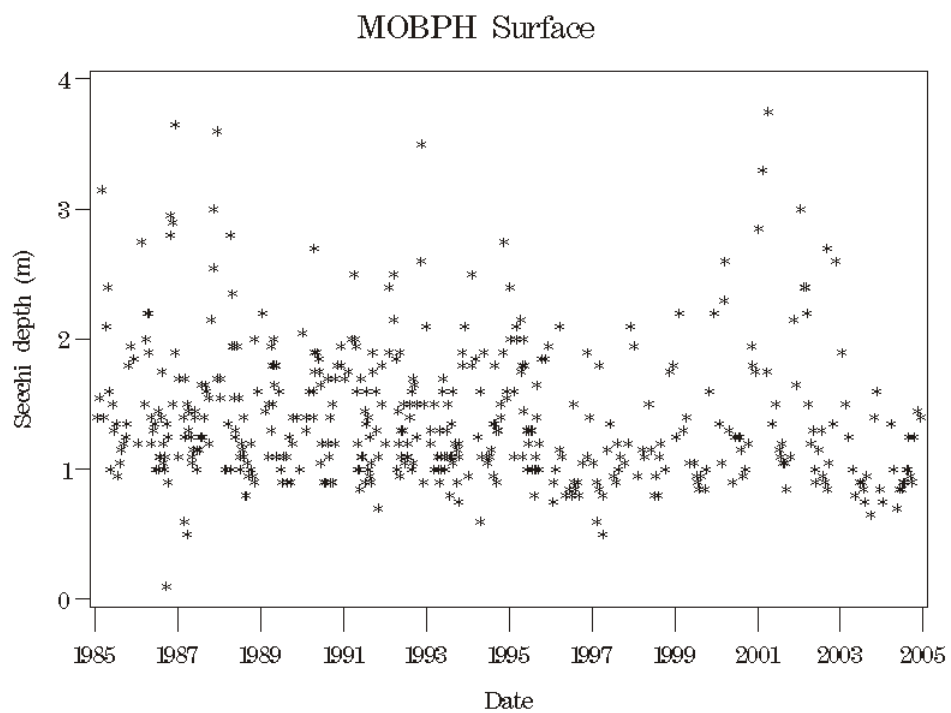


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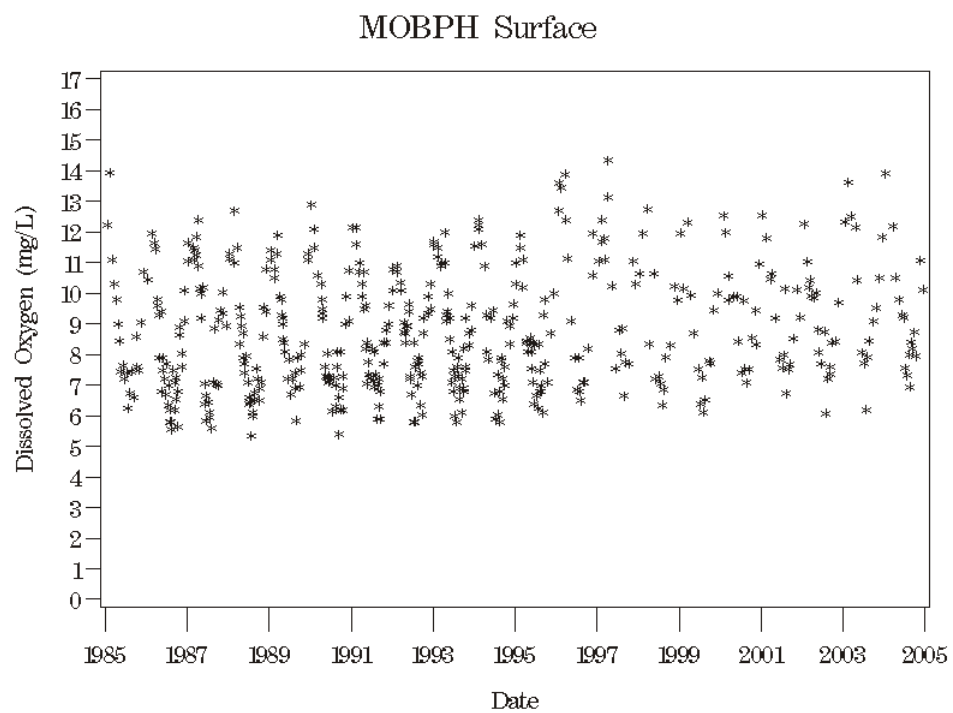


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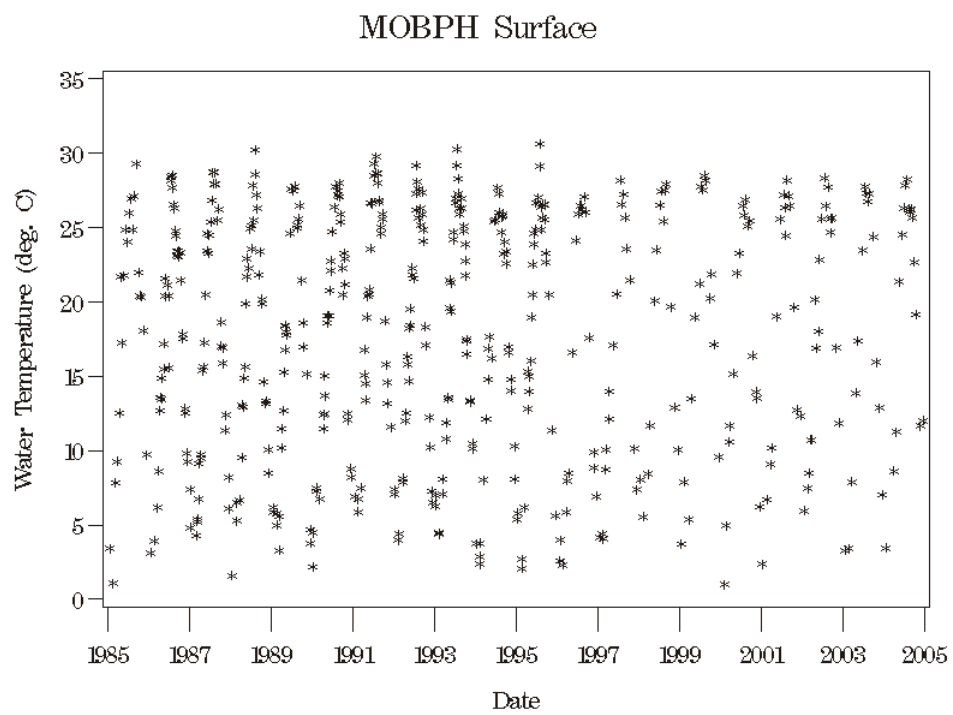


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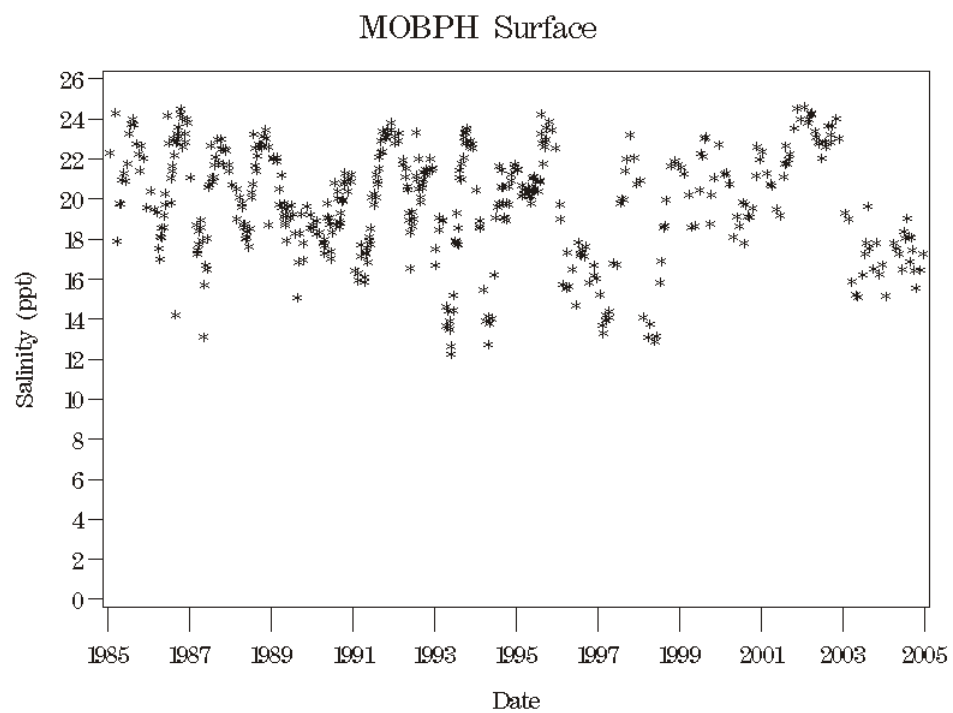


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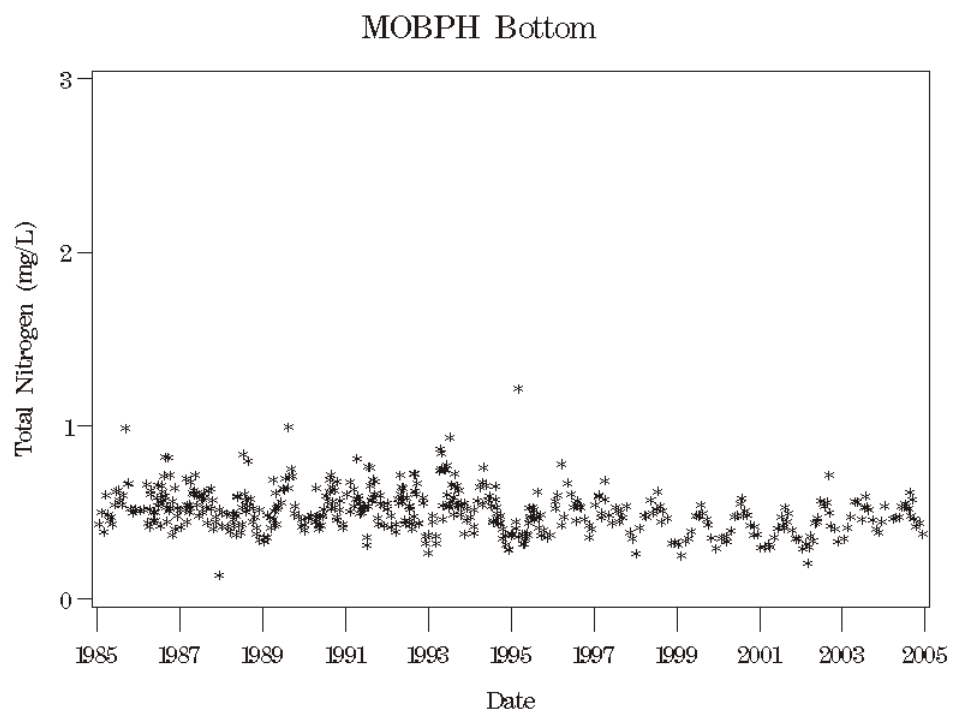


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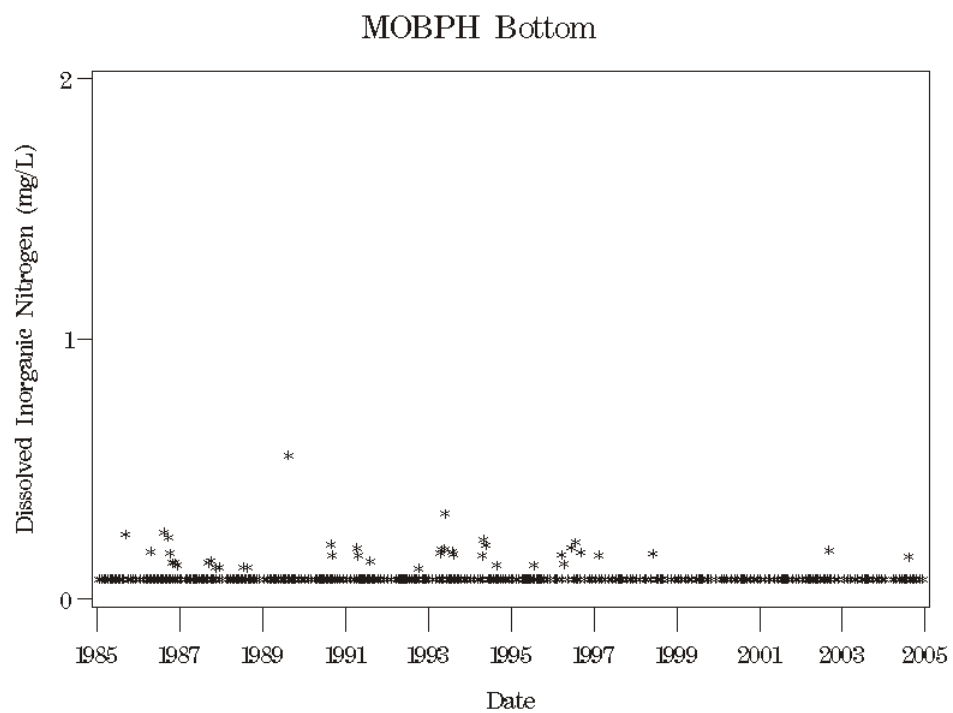


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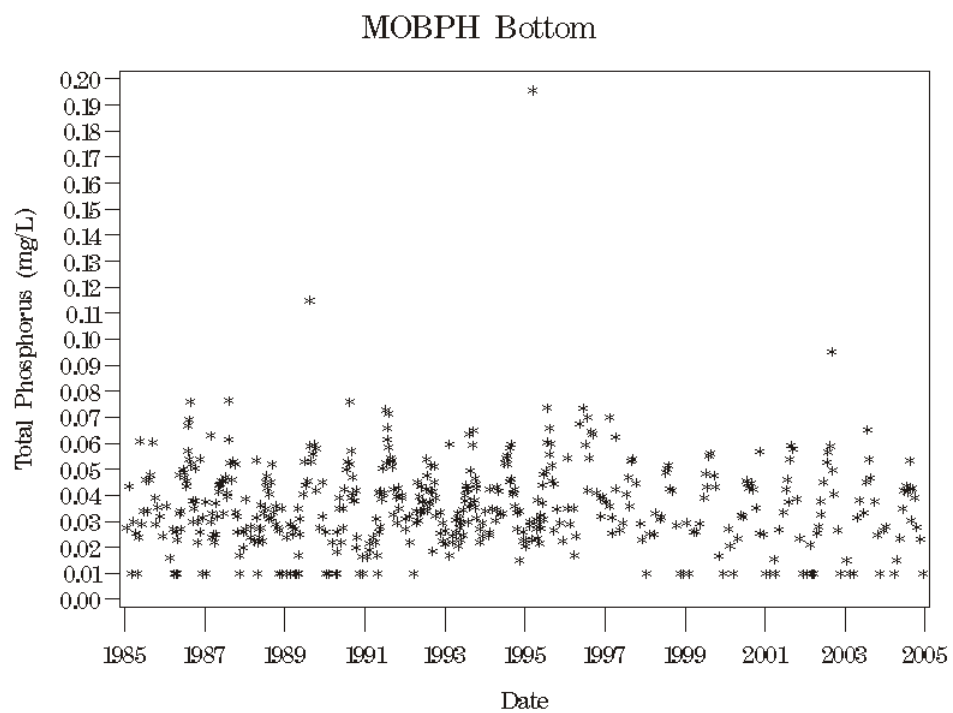


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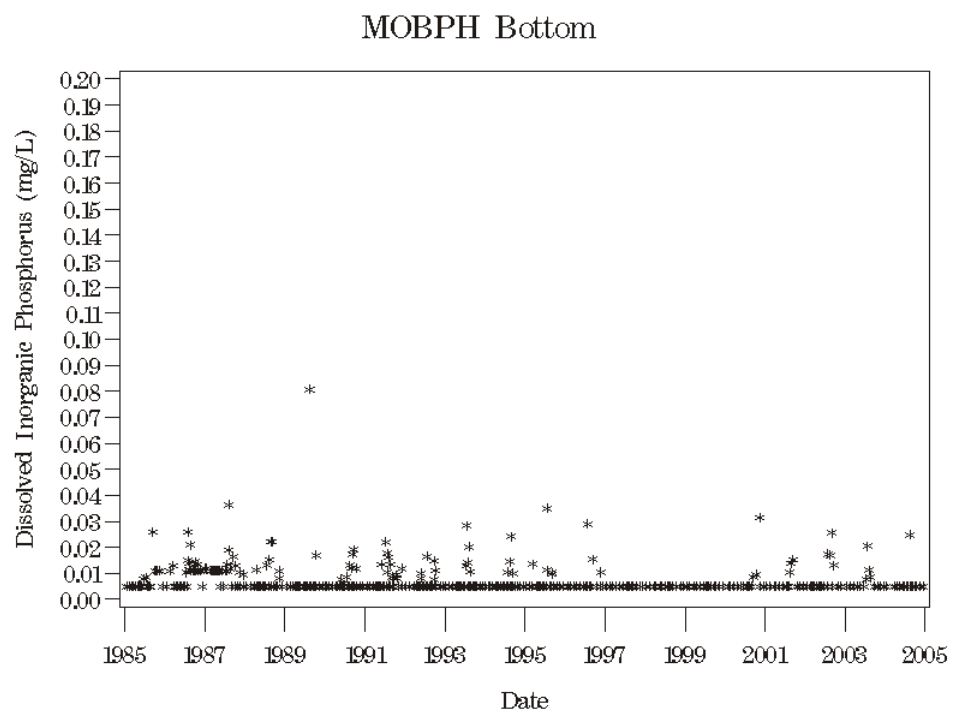


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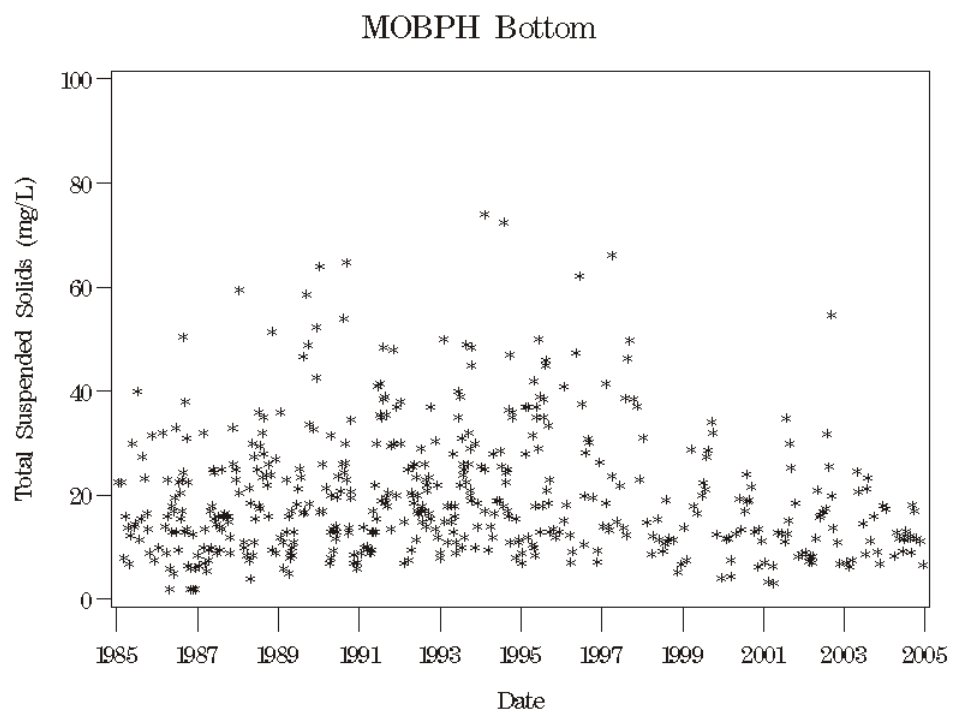


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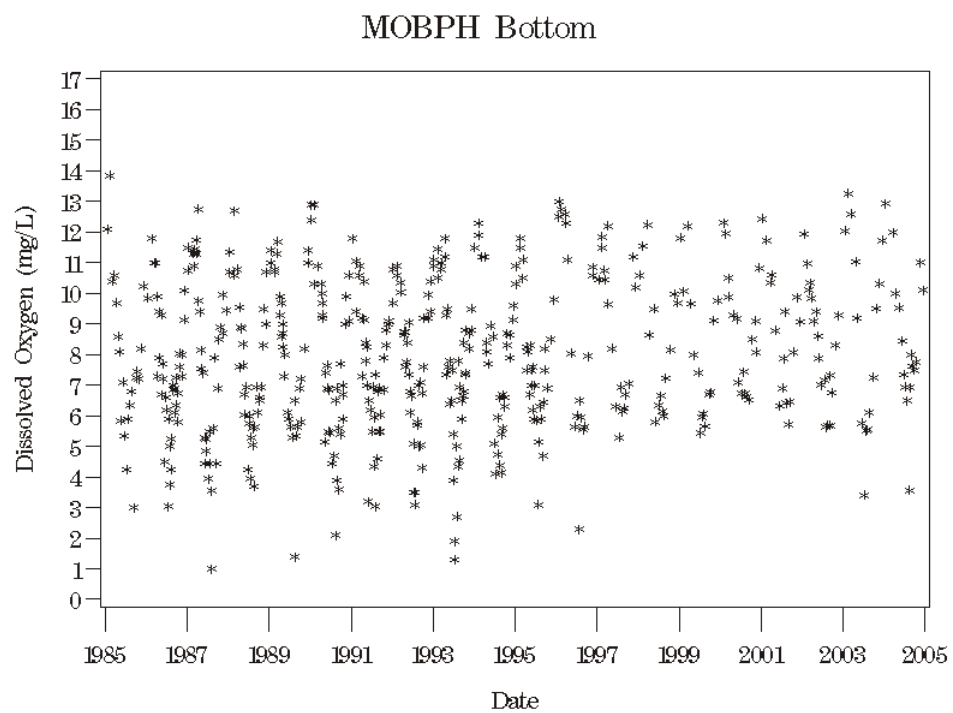


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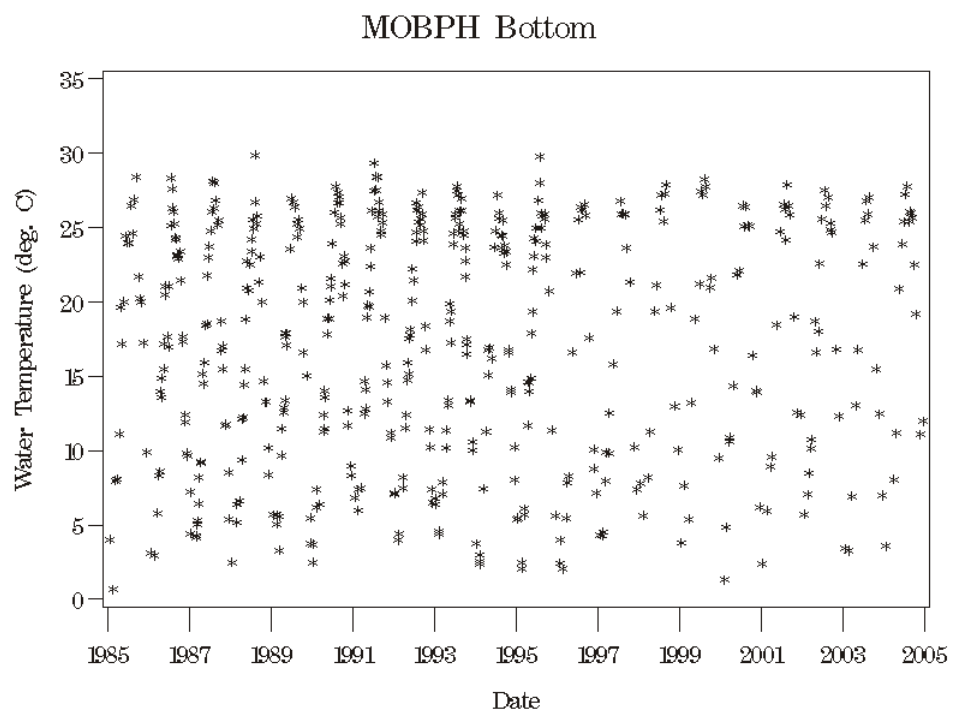


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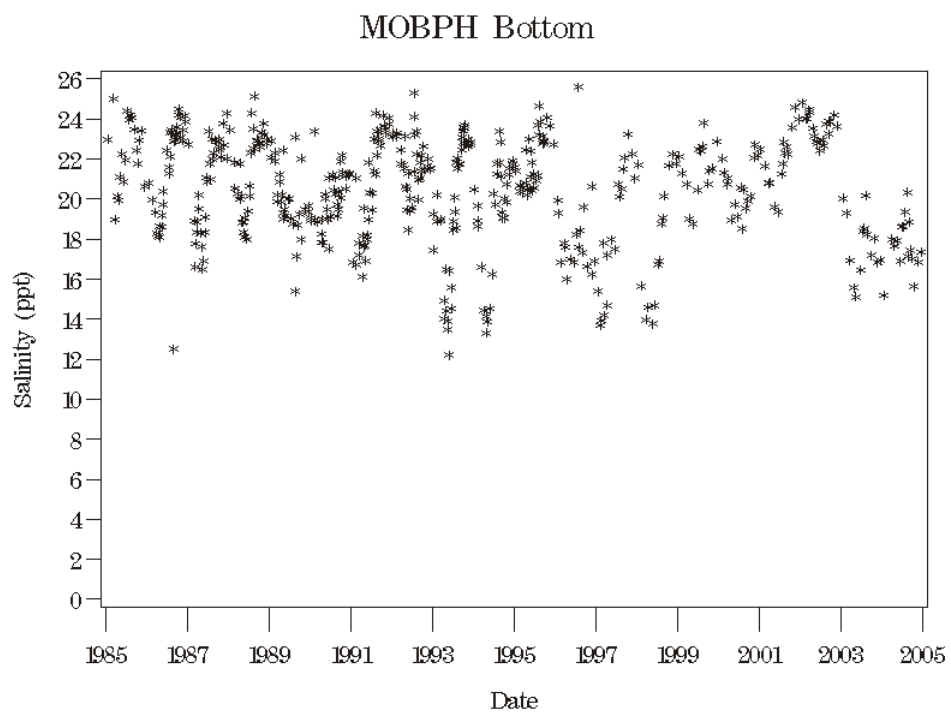


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Appendix C - Water Quality Scatterplots
Section IV - Rappahannock River

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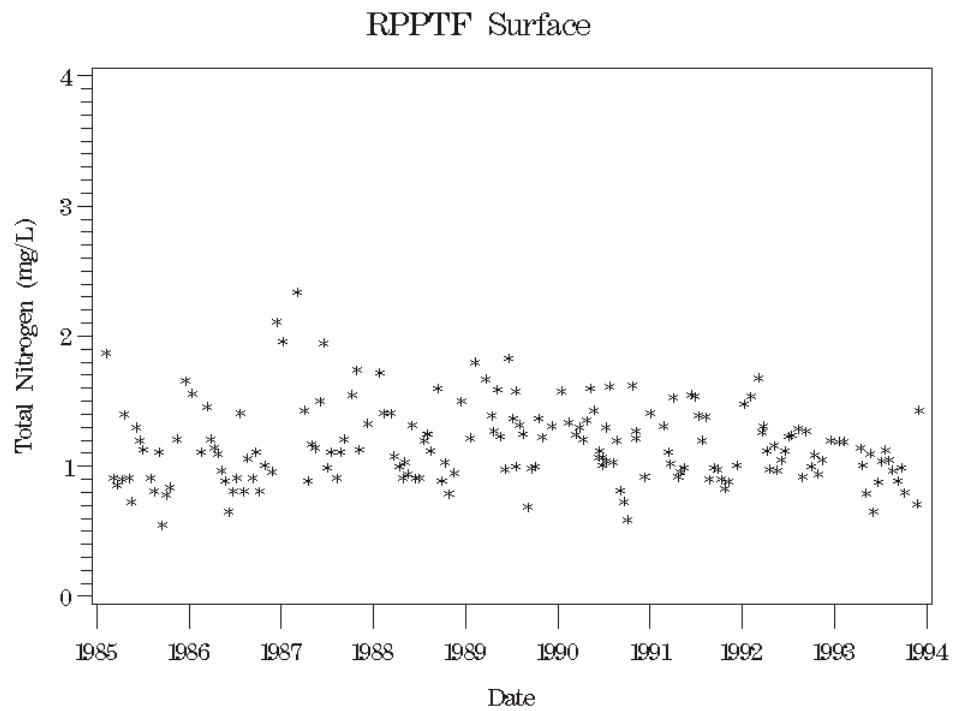
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a) Pre-method change period



b) Post-method change period

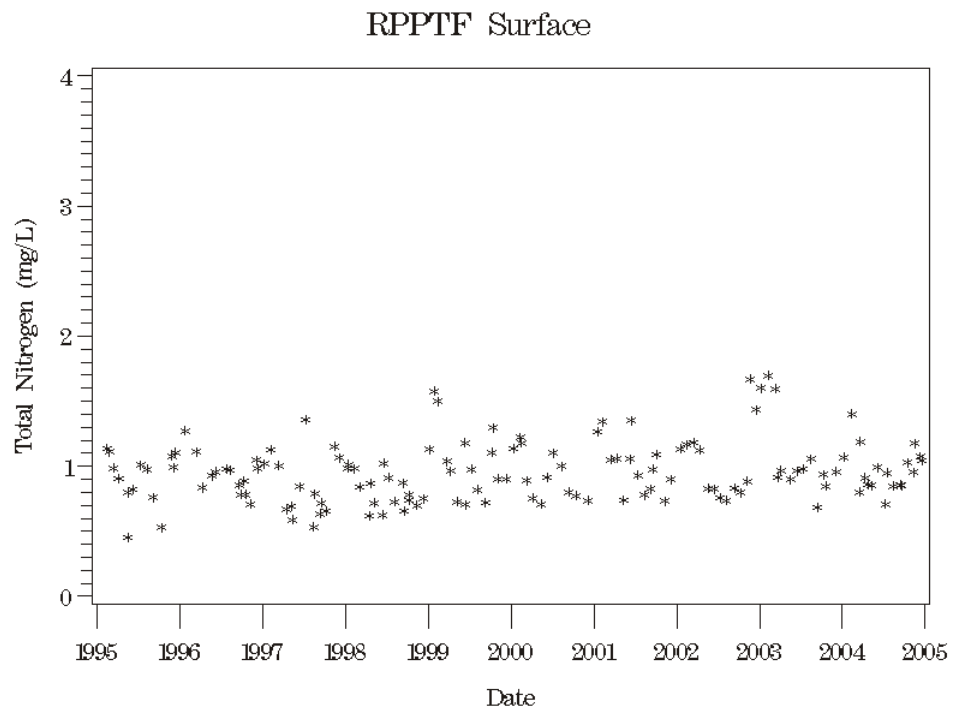
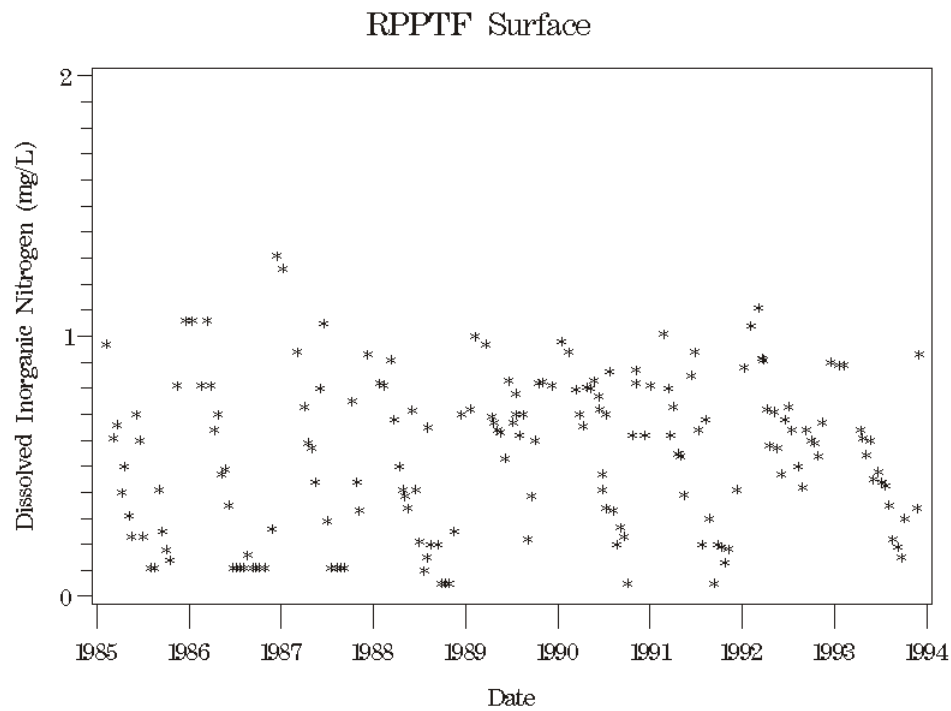


Figure 1. Scatterplots of surface total nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

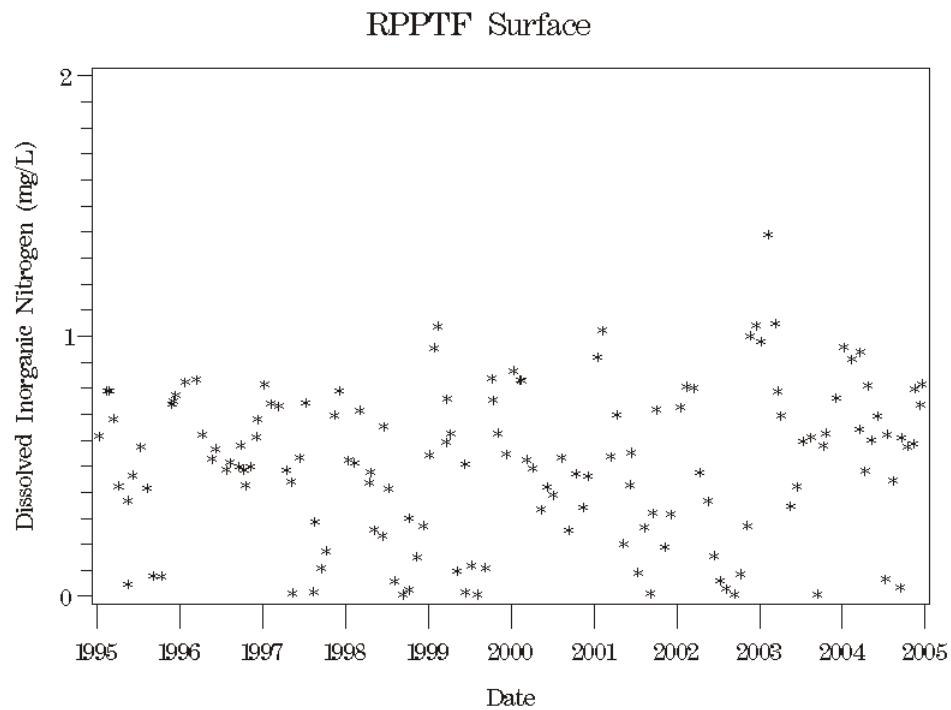
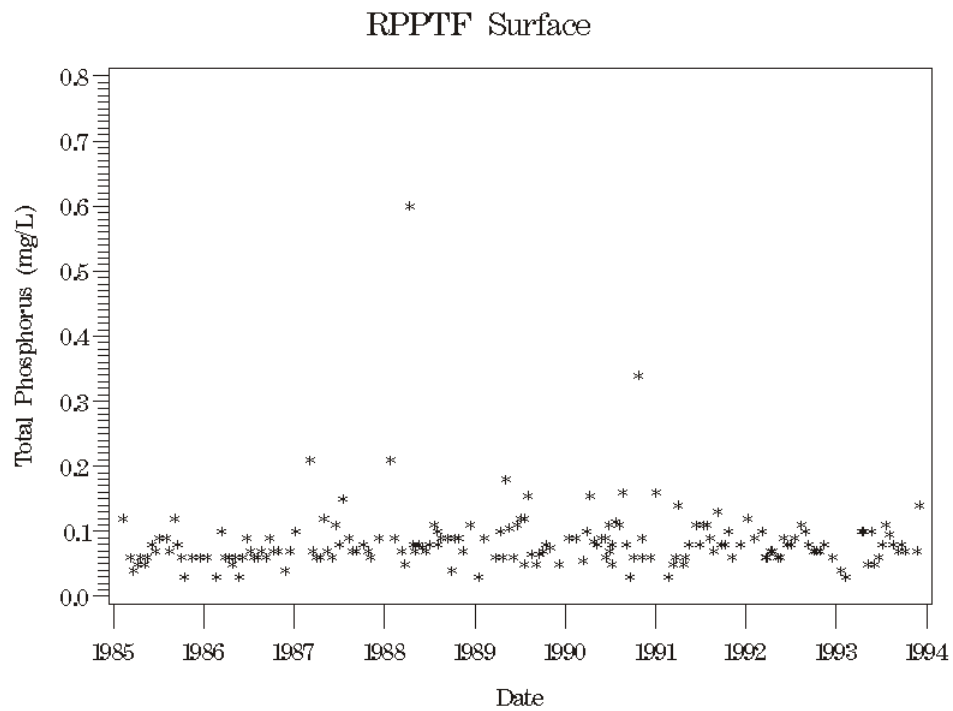


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

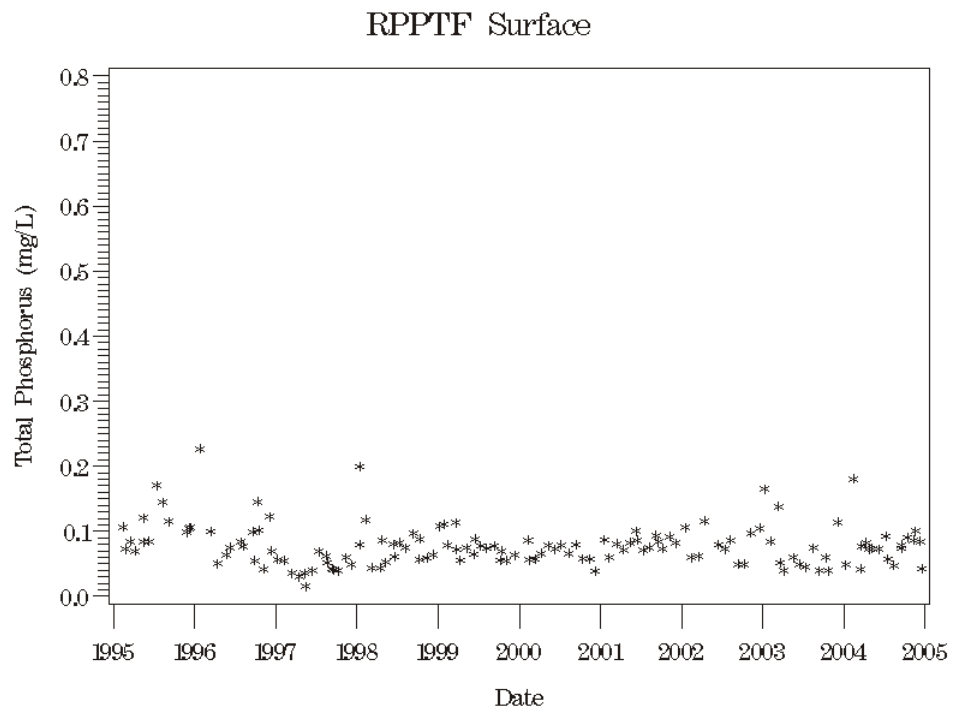
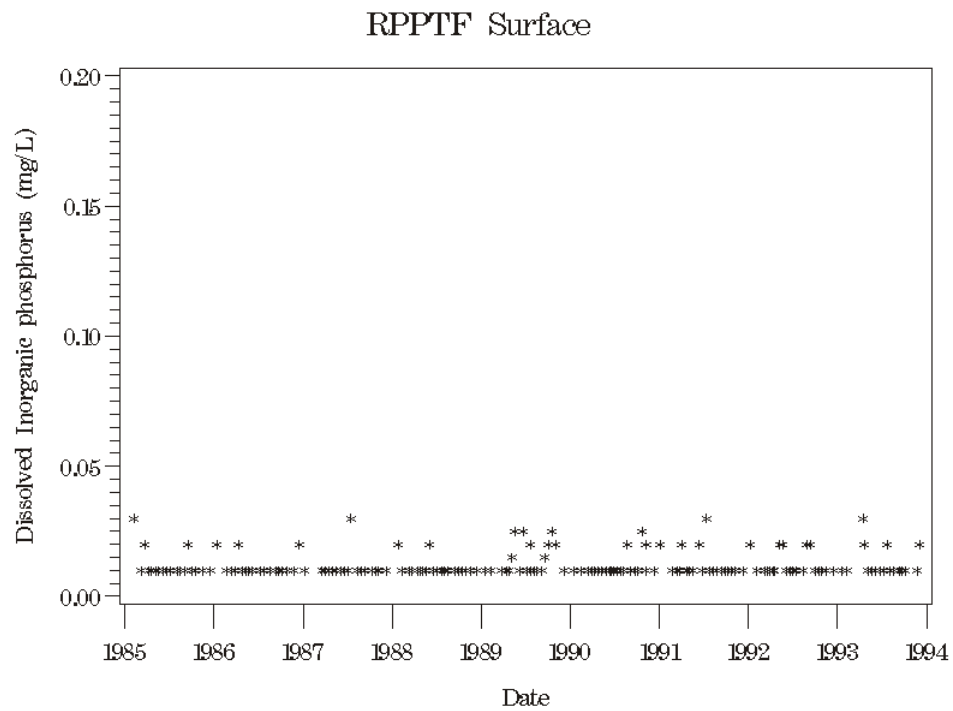


Figure 3. Scatterplots of surface total phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

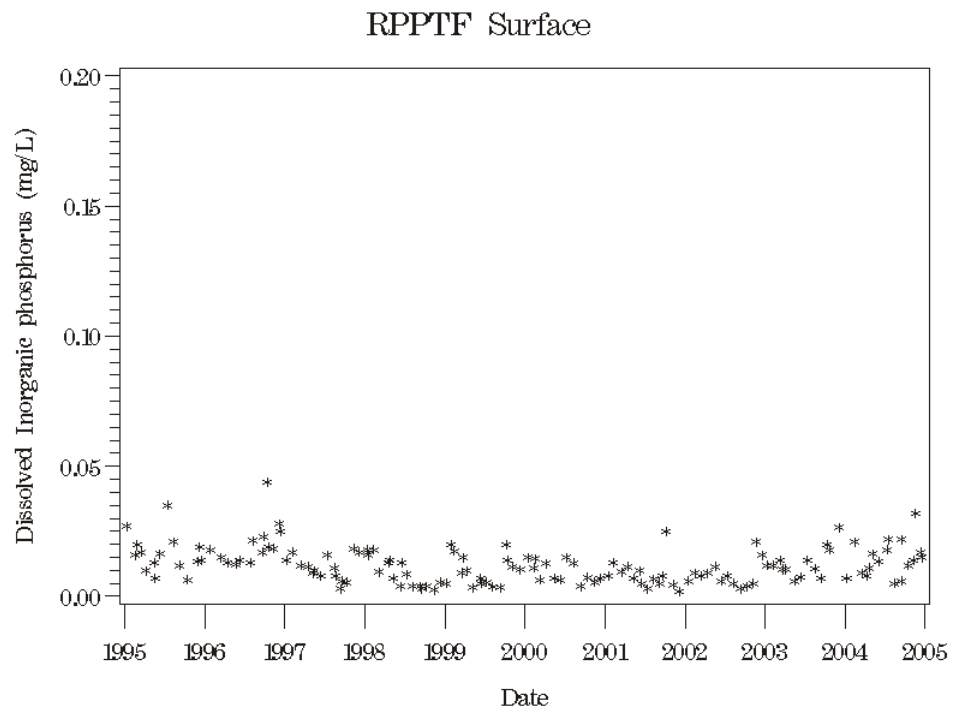


Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

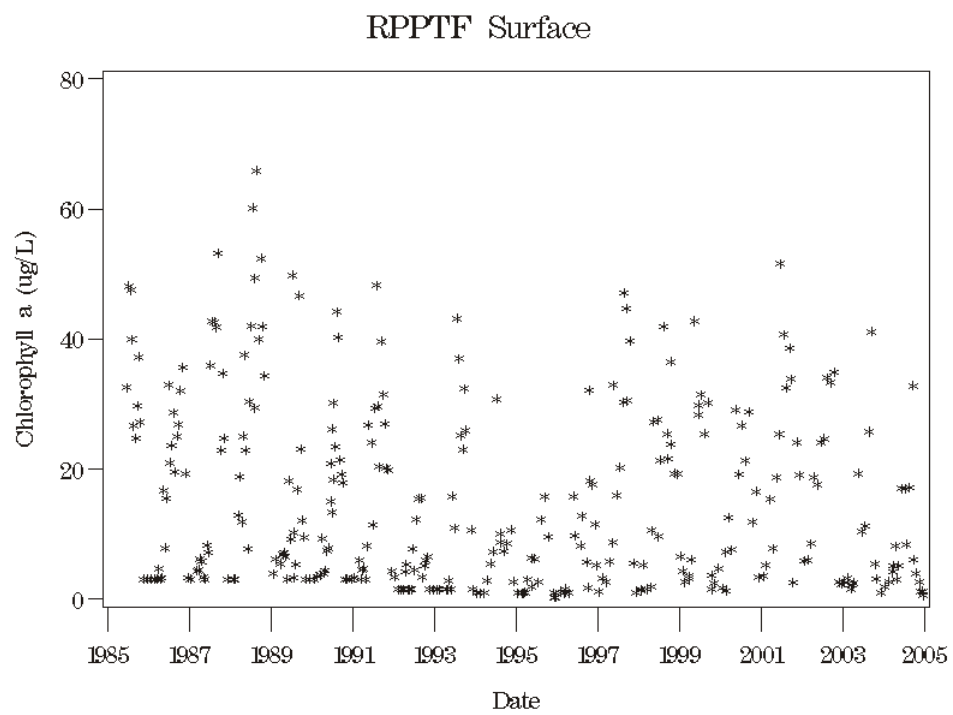


Figure 5. Scatterplot of surface chlorophyll *a* at segment RPPTF during the period 1985 to 2004.

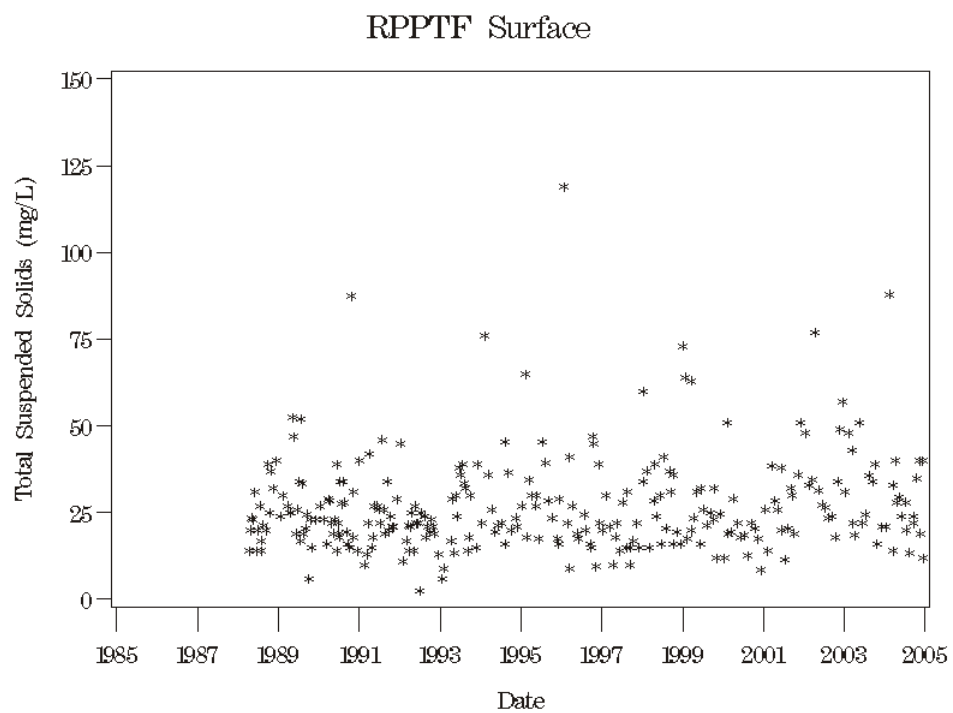


Figure 6. Scatterplot of surface total suspended solids at segment RPPTF during the period 1985 to 2004.

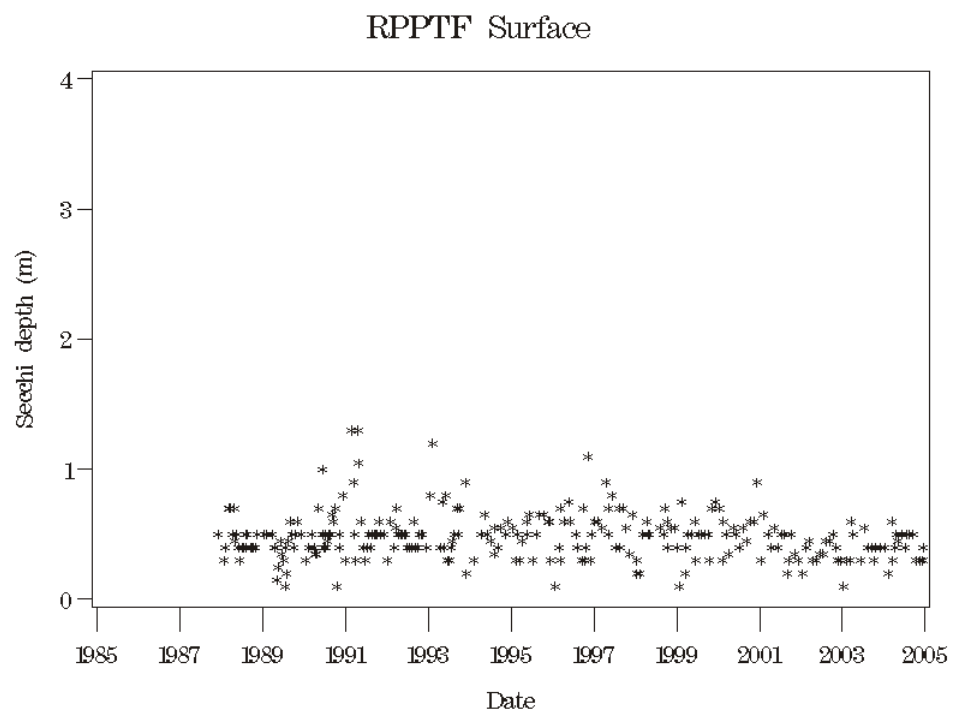


Figure 7. Scatterplot of secchi depth at segment RPPTF during the period 1985 to 2004.

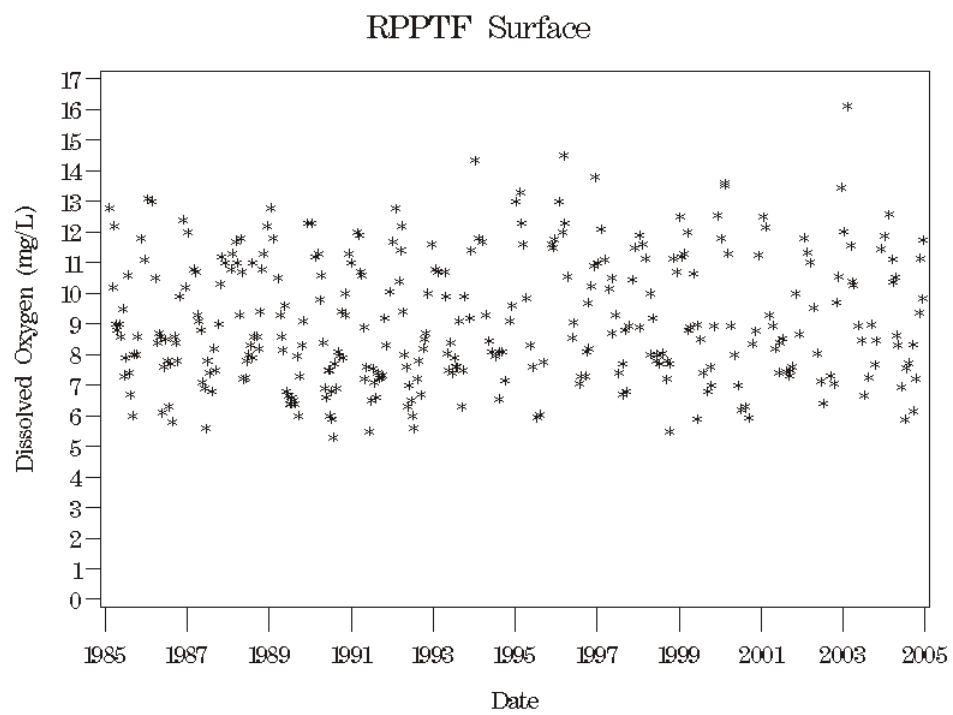


Figure 8. Scatterplot of surface dissolved oxygen at segment RPPTF during the period 1985 to 2004.

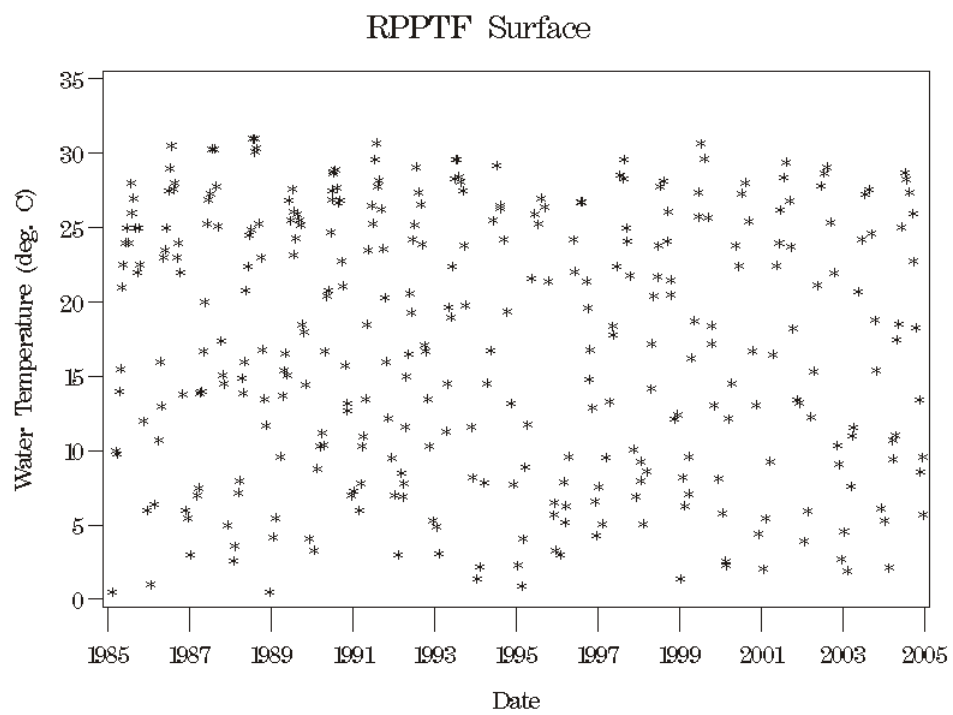


Figure 9. Scatterplot of surface water temperature at segment RPPTF during the period 1985 to 2004.

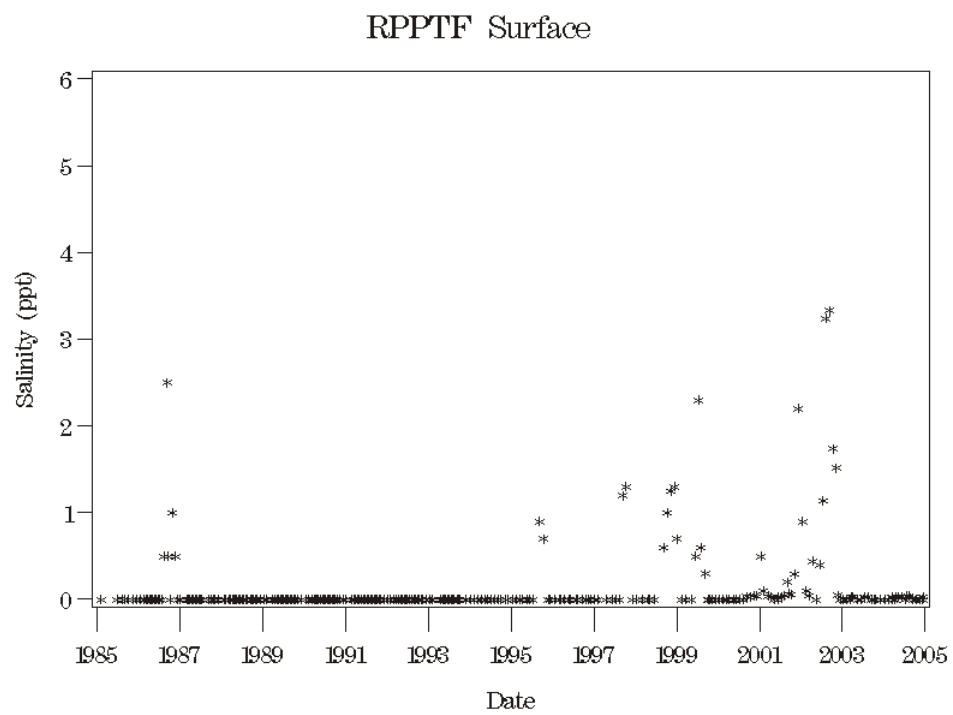
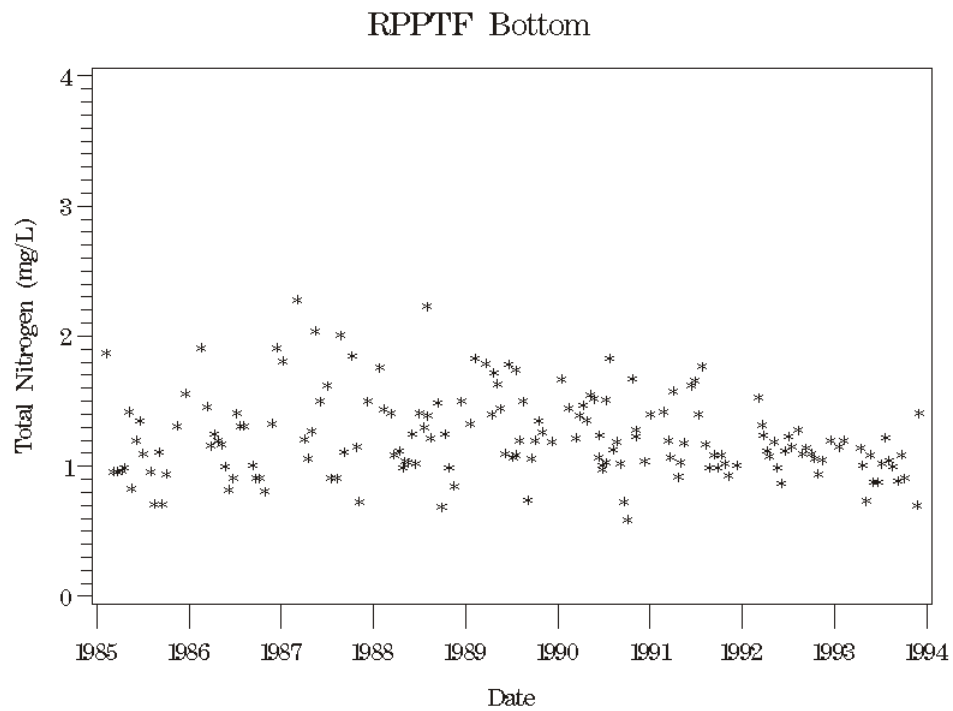


Figure 10. Scatterplot of surface salinity at segment RPPTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

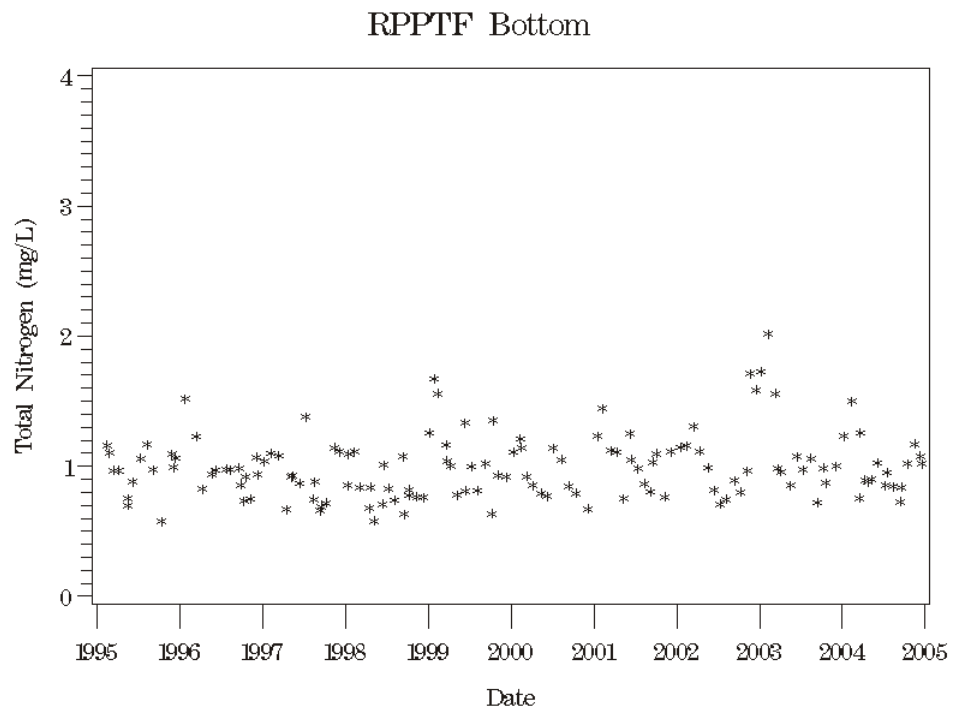
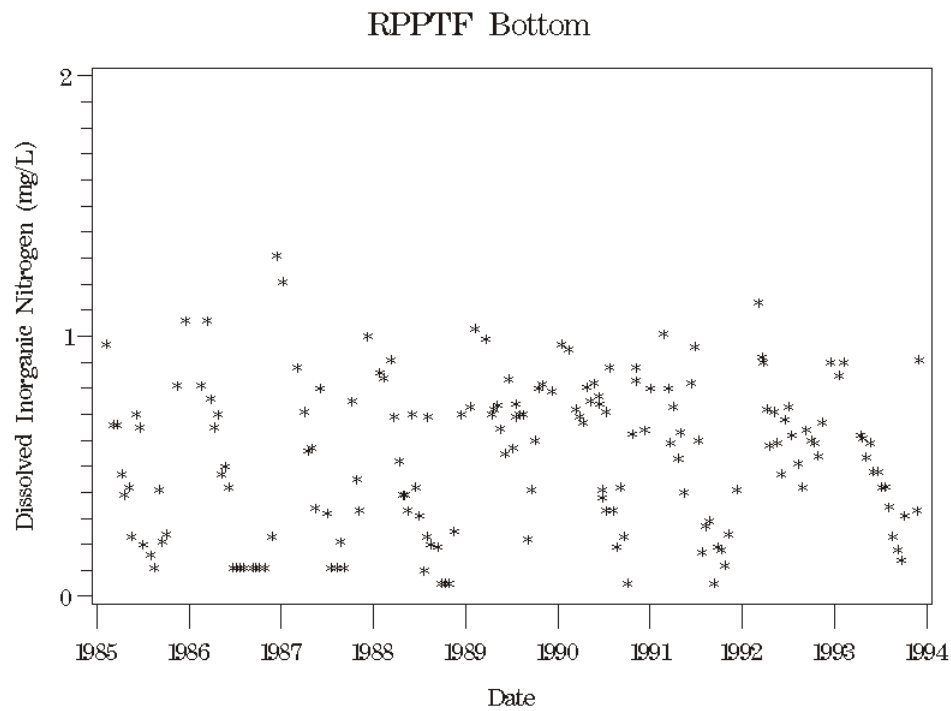


Figure 11. Scatterplots of bottom total nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

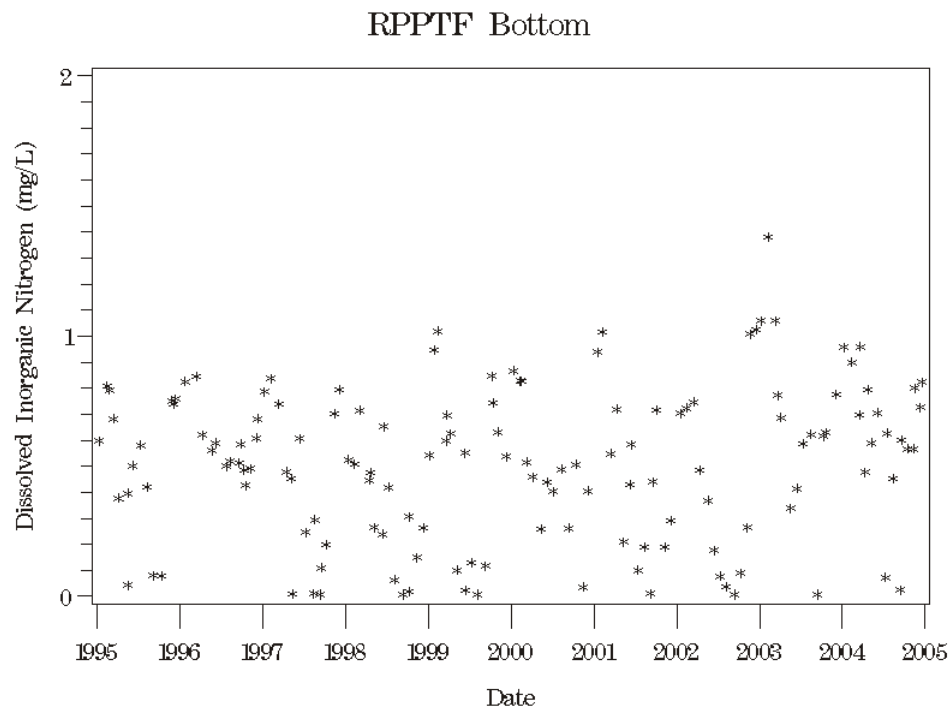
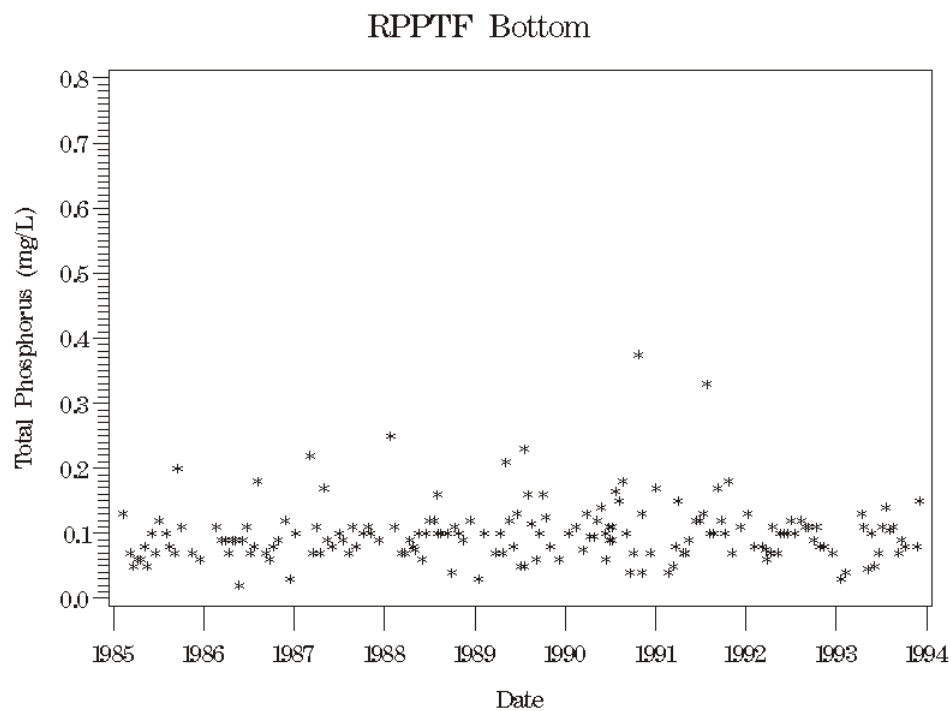


Figure 12. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

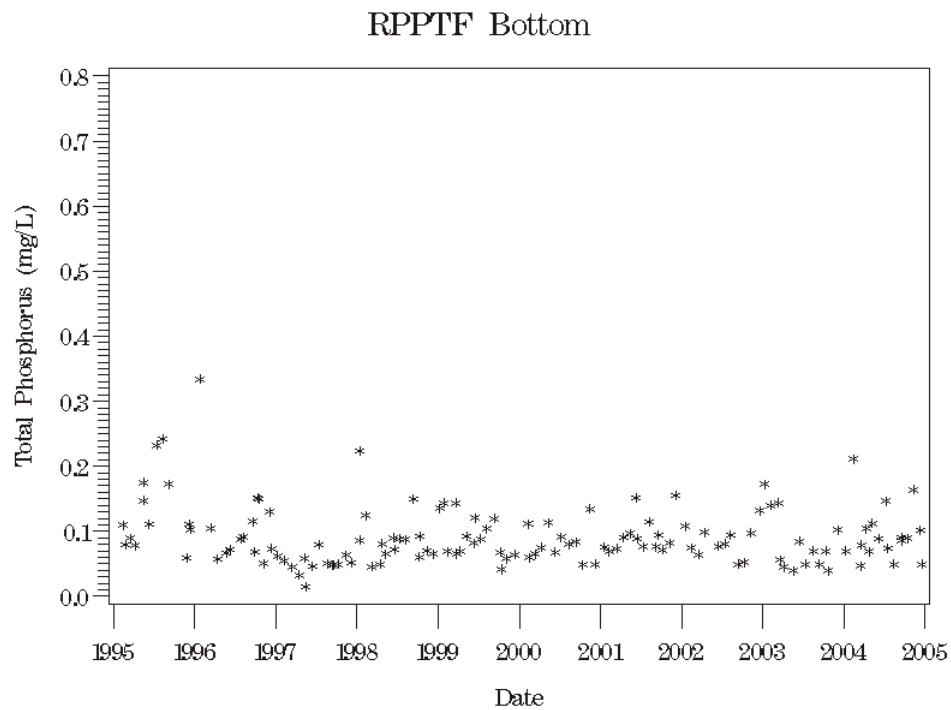
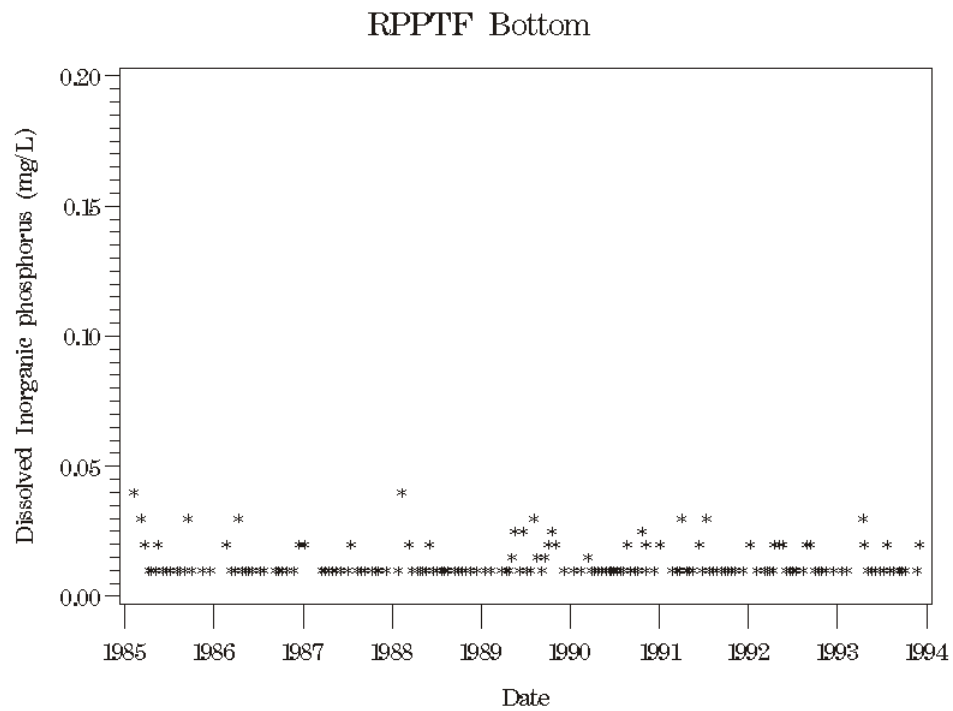


Figure 13. Scatterplots of bottom total phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

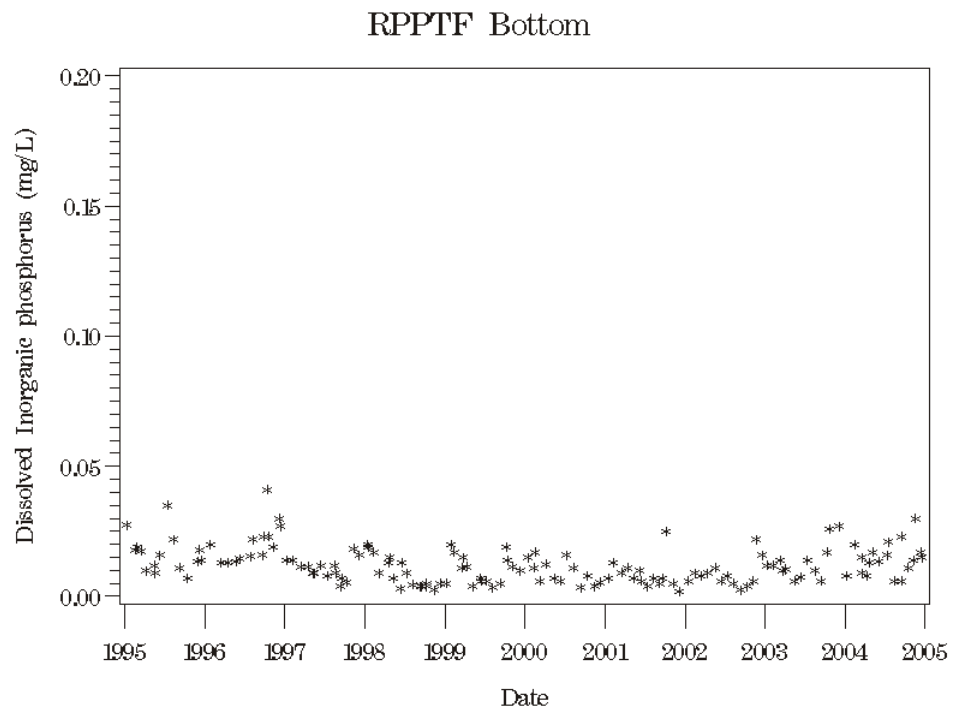


Figure 14. Scatterplots of bottom dissolved inorganic phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

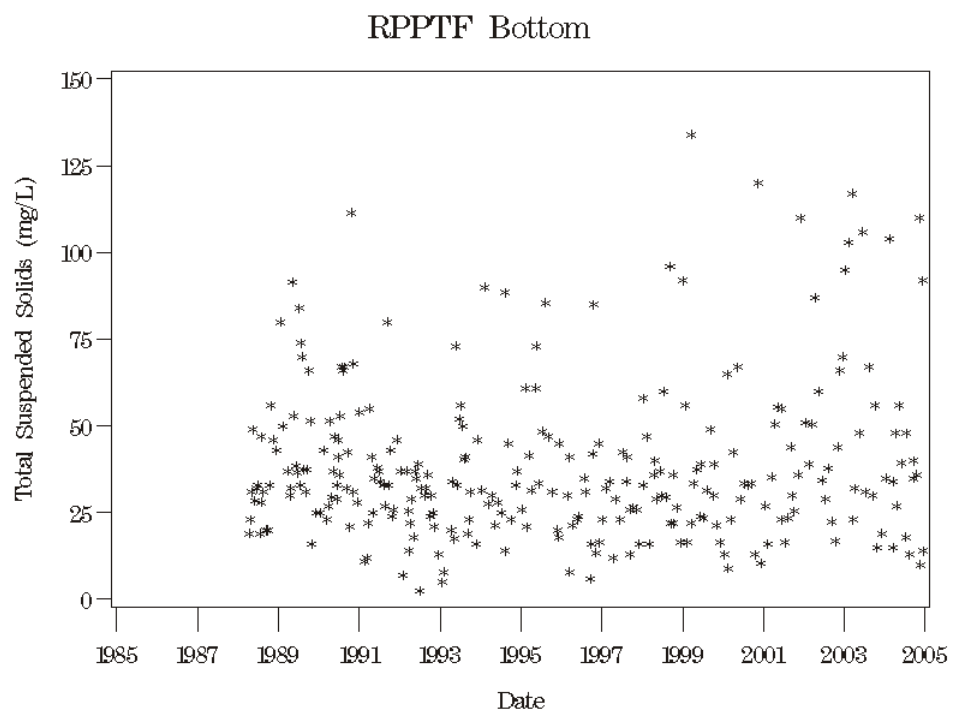


Figure 15. Scatterplot of bottom total suspended solids at segment RPPTF during the period 1985 to 2004.

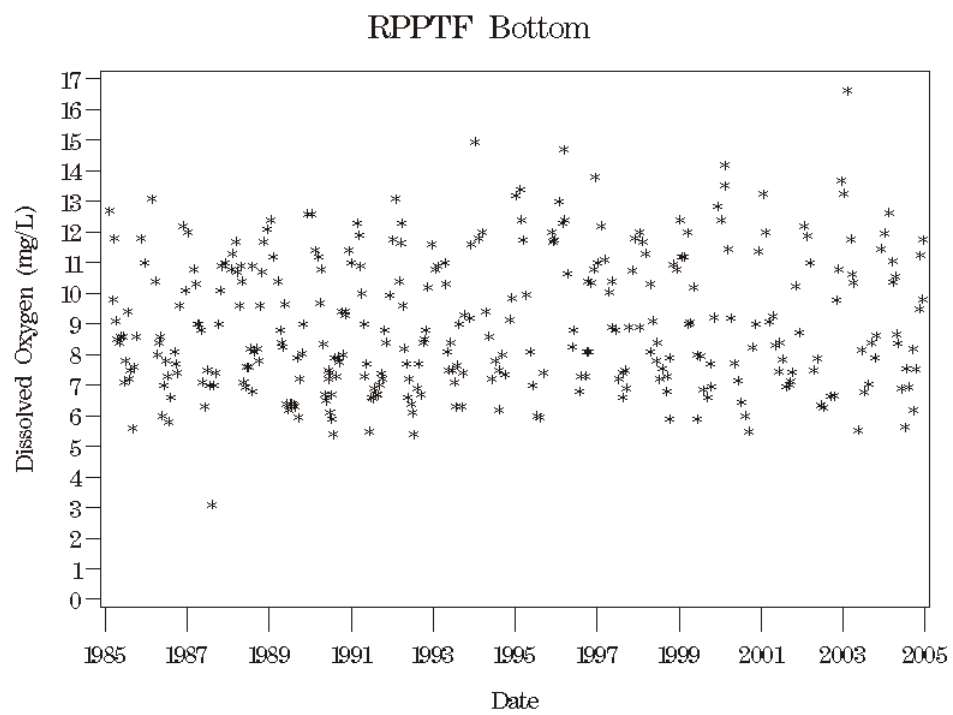


Figure 16. Scatterplot of bottom dissolved oxygen at segment RPPTF during the period 1985 to 2004.

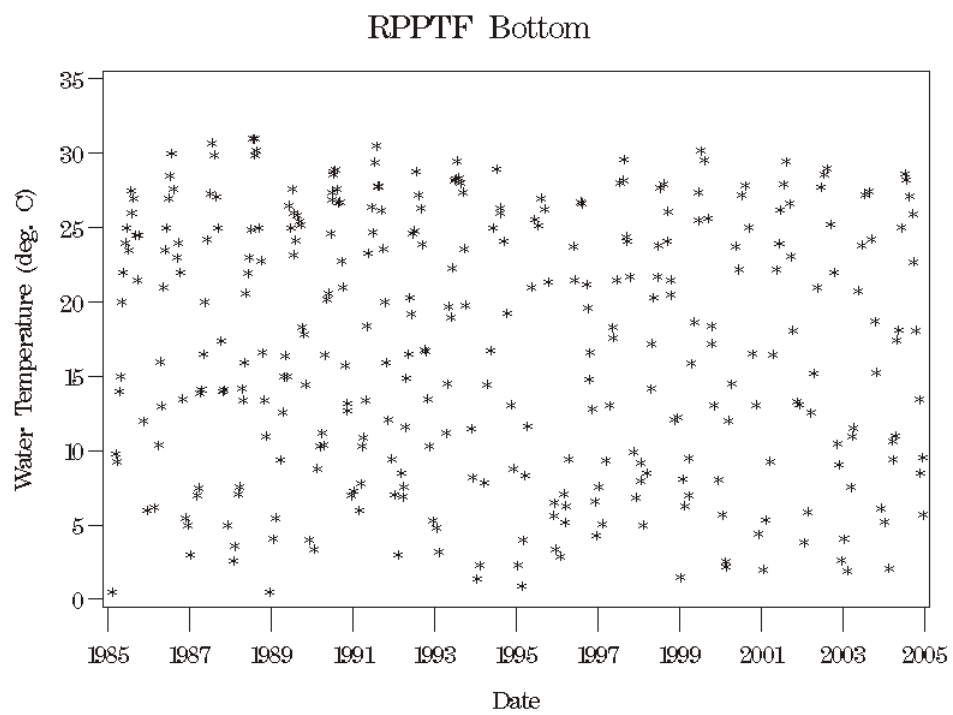


Figure 17. Scatterplot of bottom water temperature at segment RPPTF during the period 1985 to 2004.

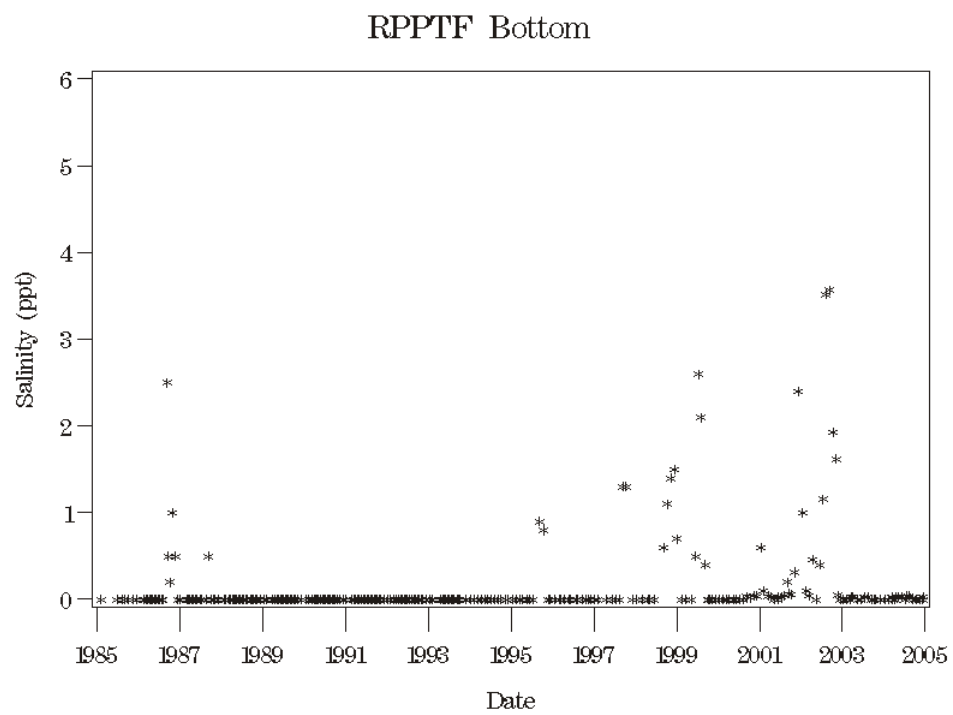
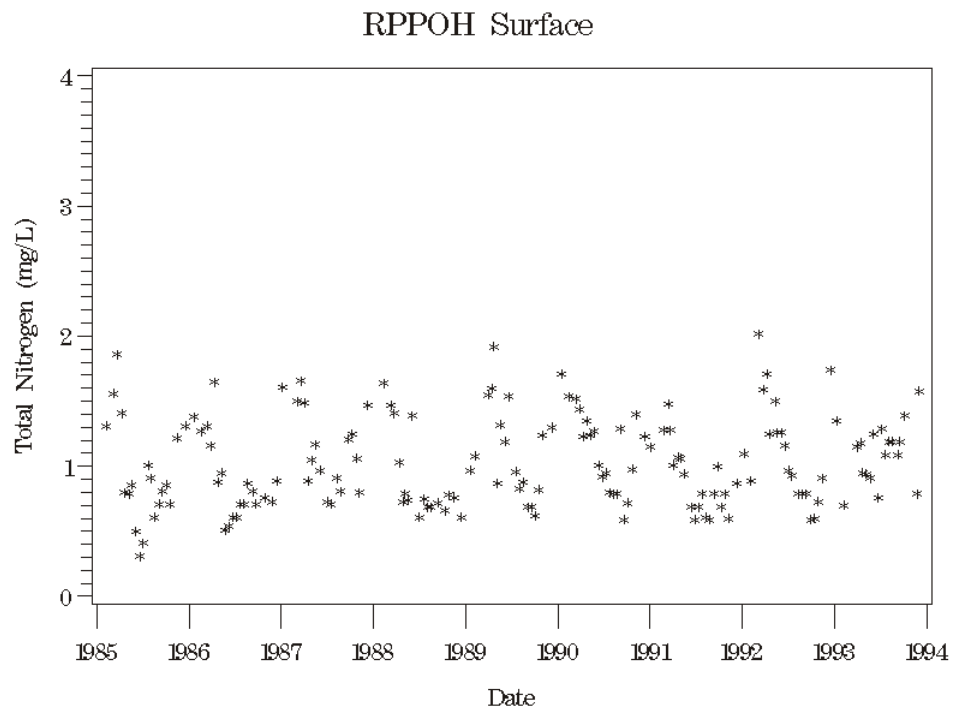


Figure 18. Scatterplot of bottom salinity at segment RPPTF during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

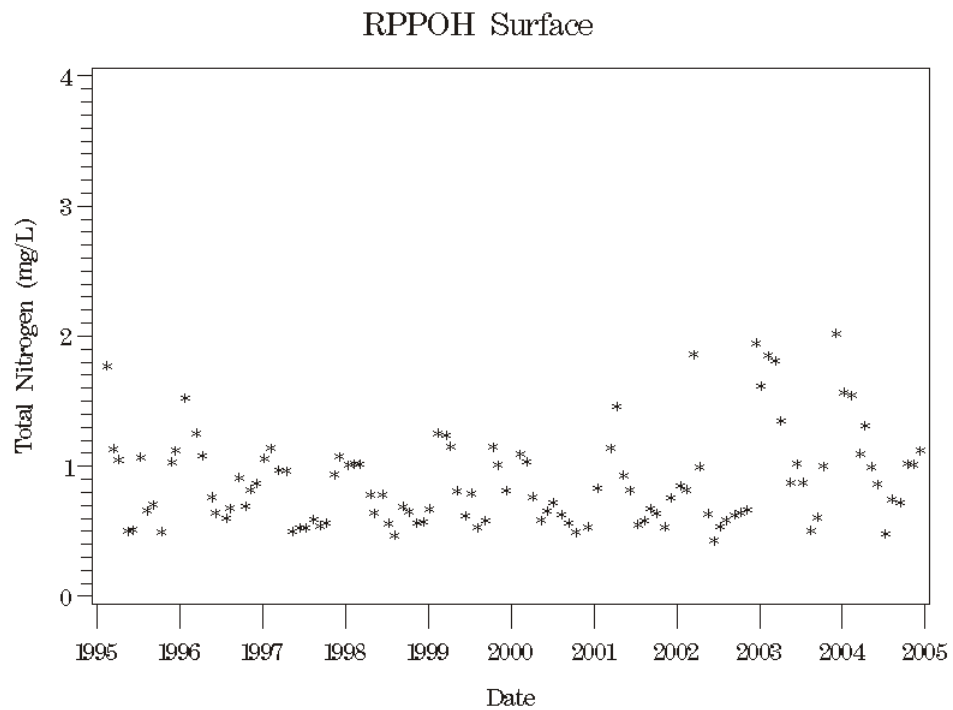
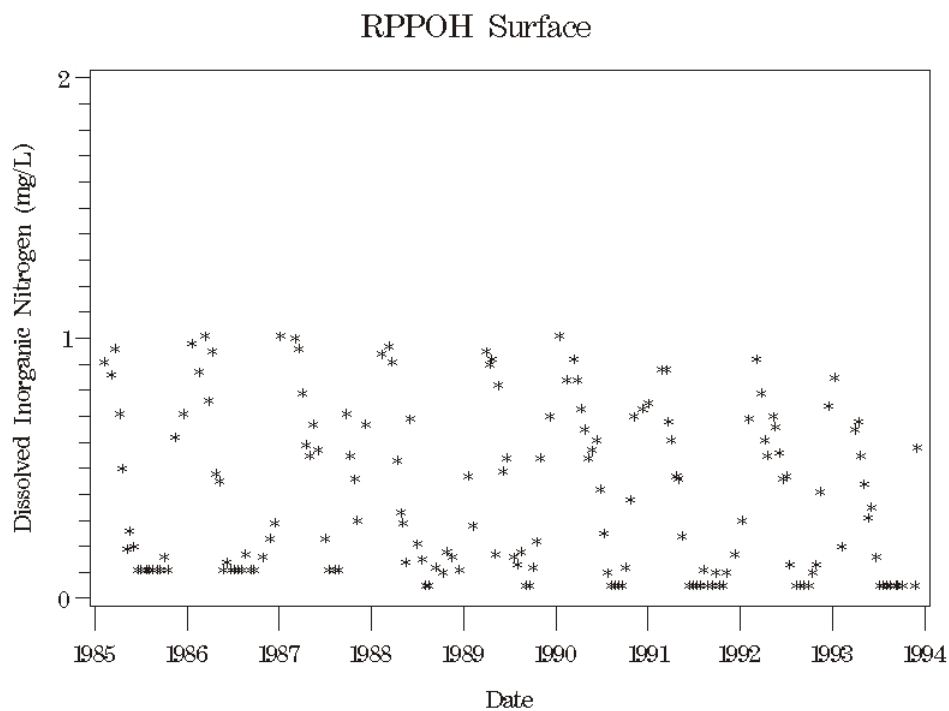


Figure 19. Scatterplots of surface total nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

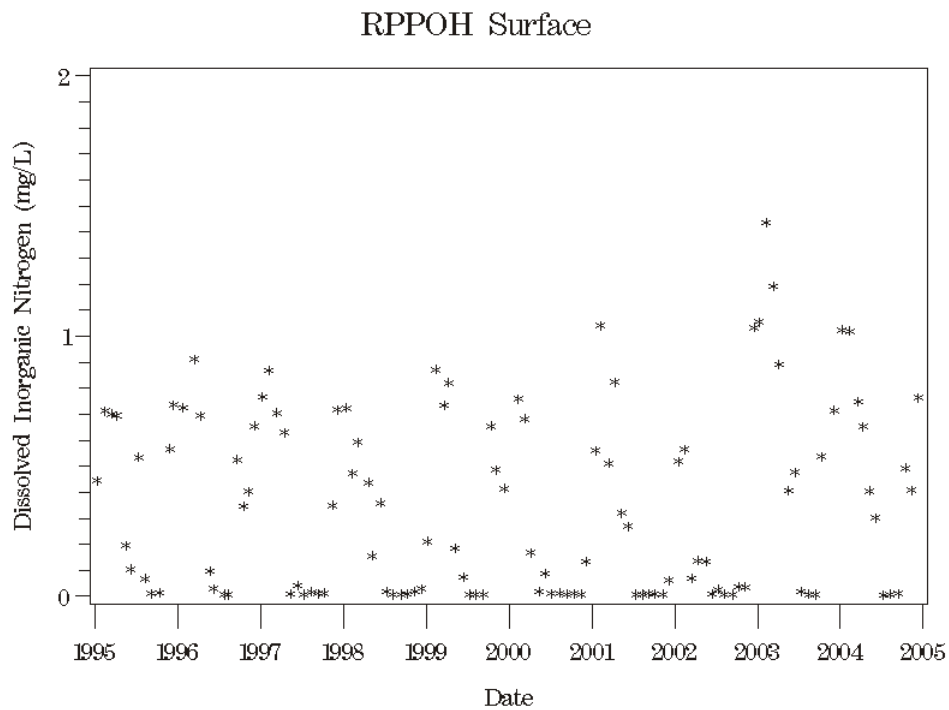
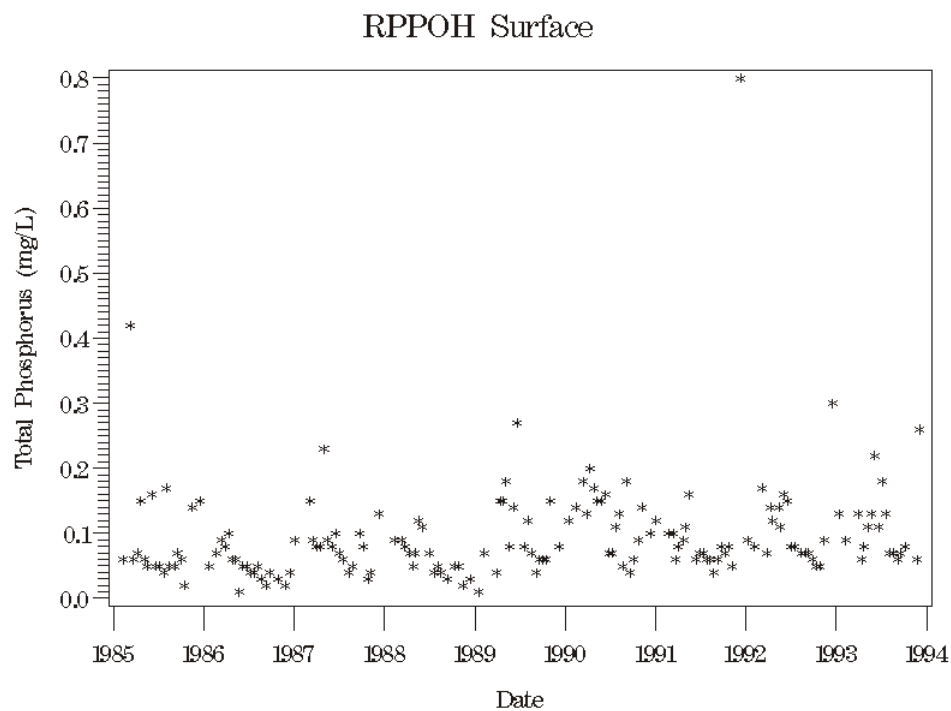


Figure 20. Scatterplots of surface dissolved inorganic nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

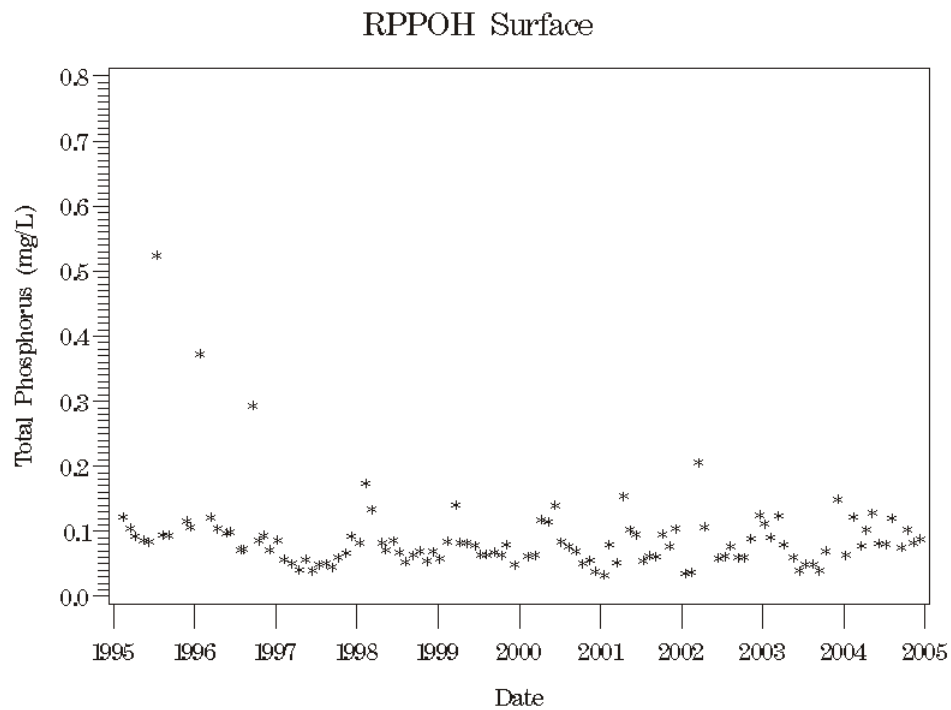
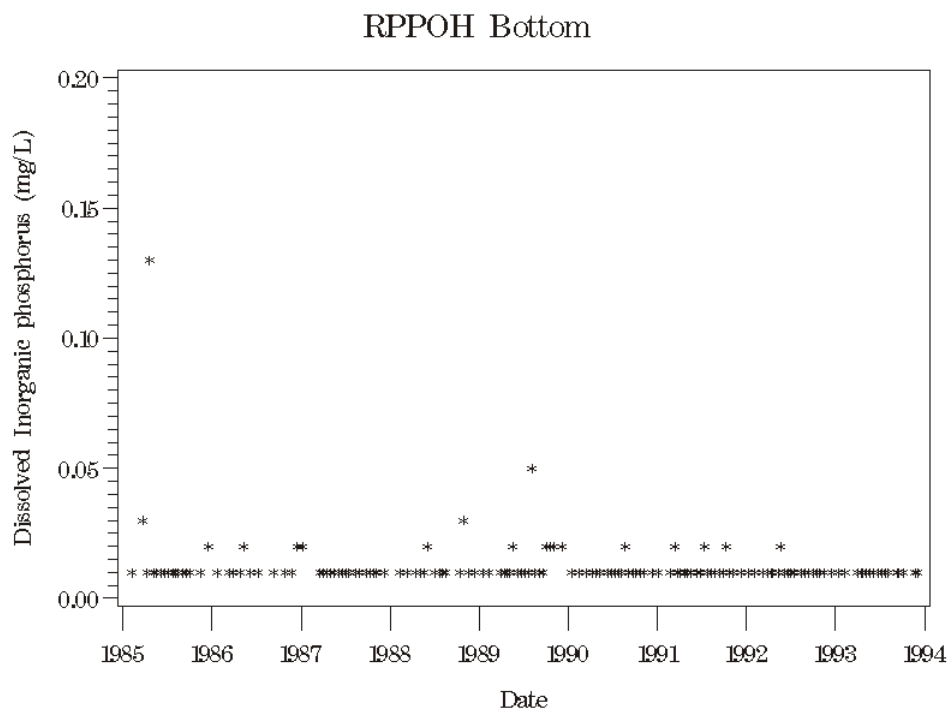


Figure 21. Scatterplots of surface total phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

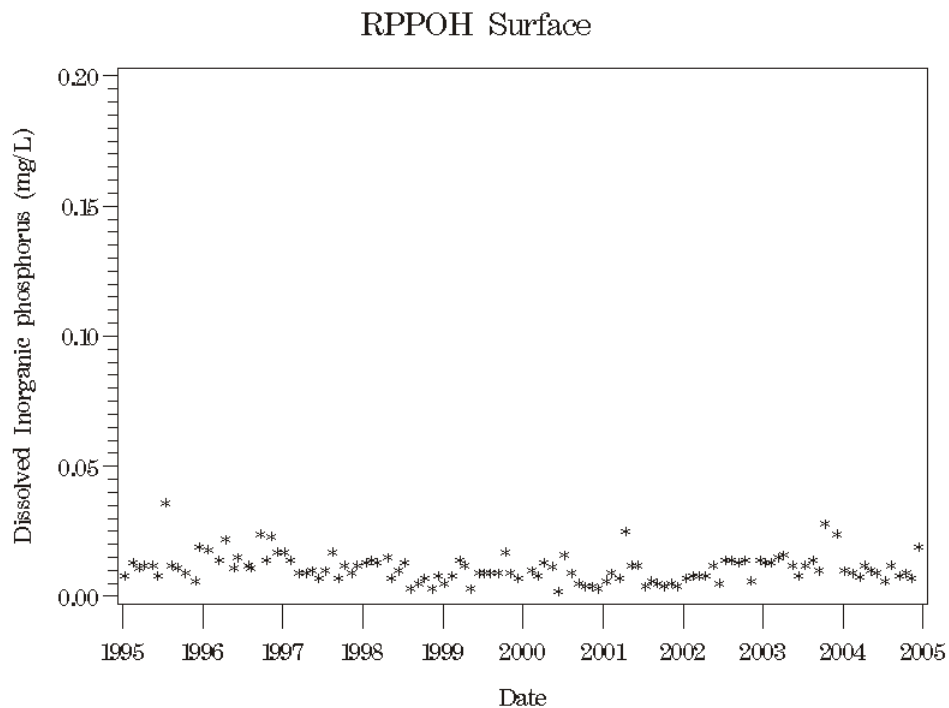


Figure 22. Scatterplots of surface dissolved inorganic phosphorus at segment RPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

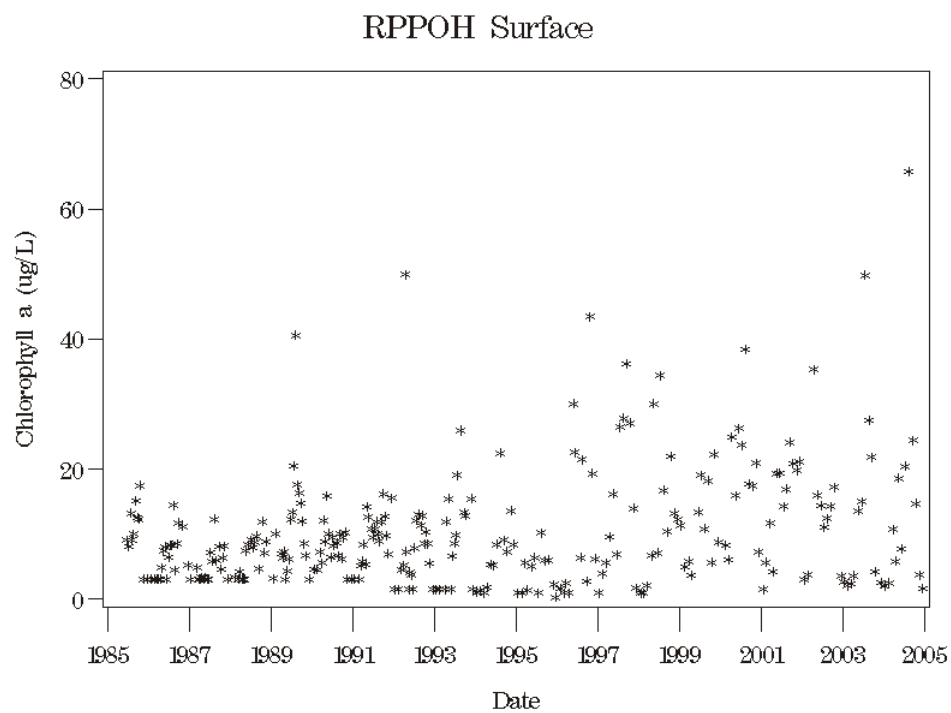


Figure 23. Scatterplot of surface chlorophyll *a* at segment RPPOH during the period 1985 to 2004.

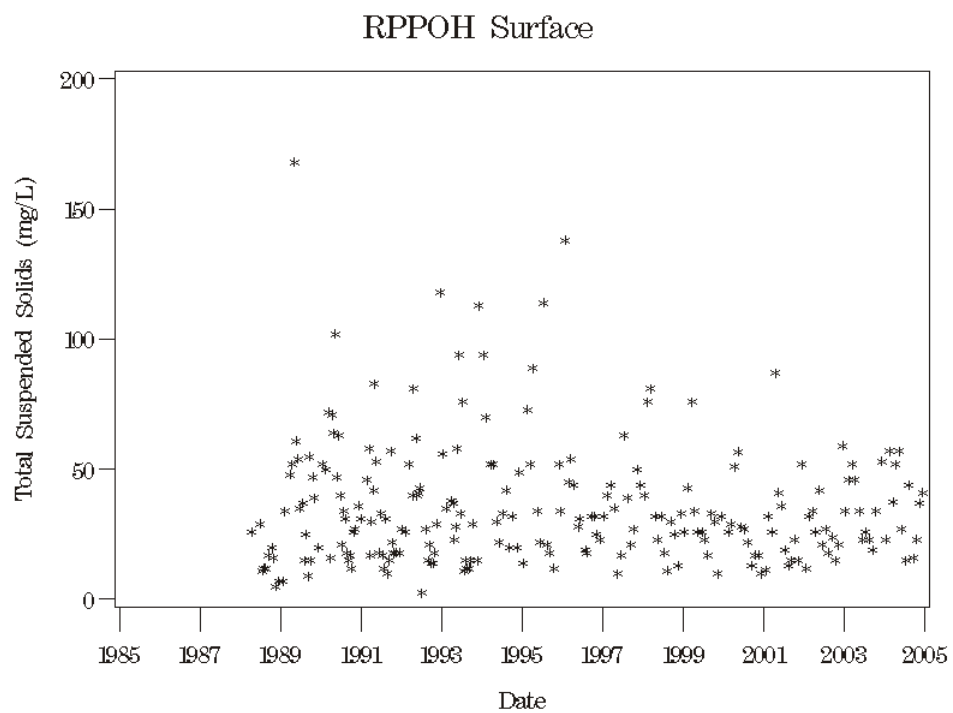


Figure 24. Scatterplot of surface total suspended solids at segment RPPOH during the period 1985 to 2004.

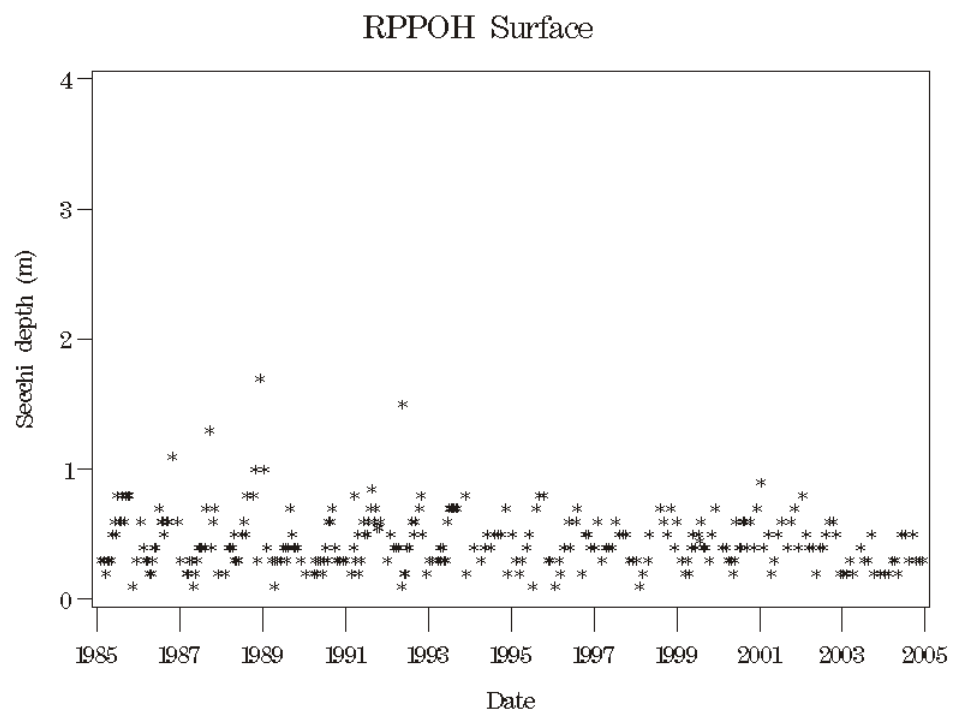


Figure 25. Scatterplot of secchi depth at segment RPPOH during the period 1985 to 2004.

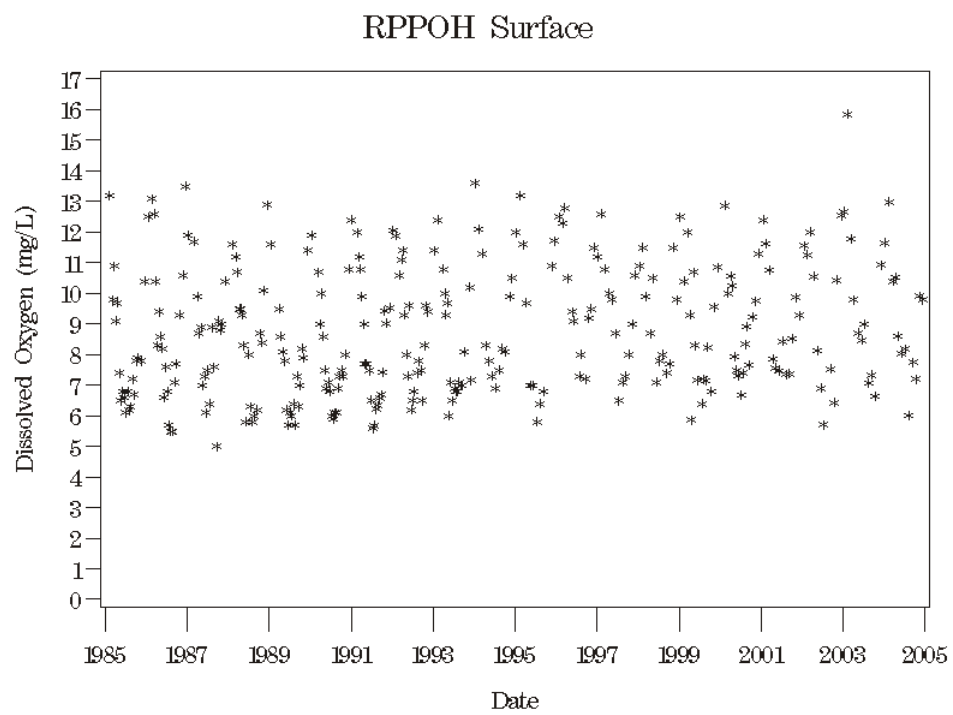


Figure 26. Scatterplot of surface dissolved oxygen at segment RPPOH during the period 1985 to 2004.

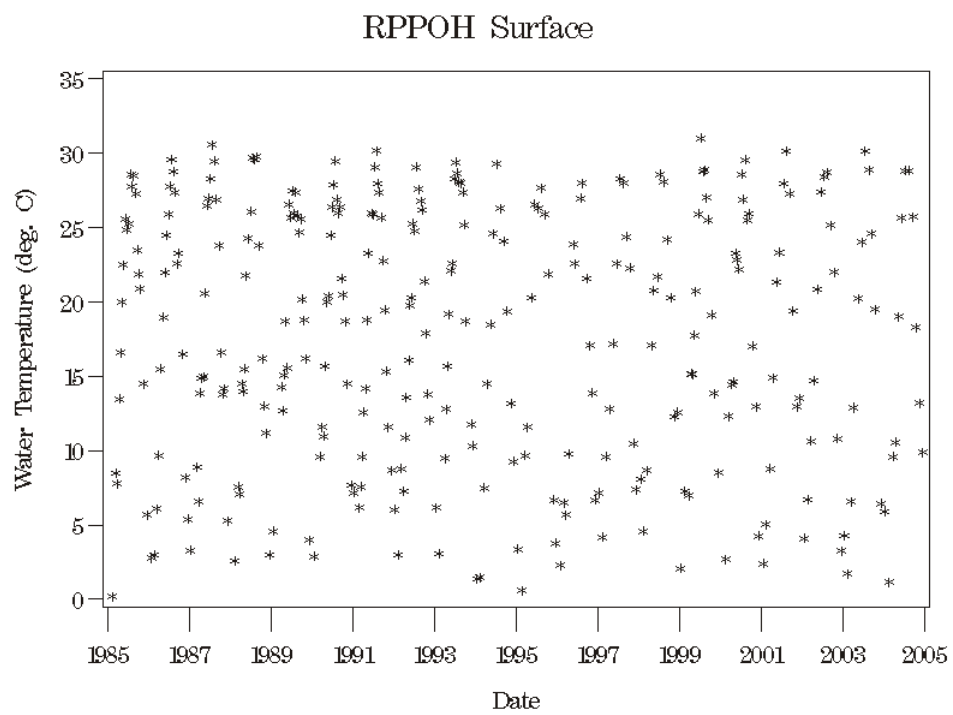


Figure 27. Scatterplot of surface water temperature at segment RPPOH during the period 1985 to 2004.

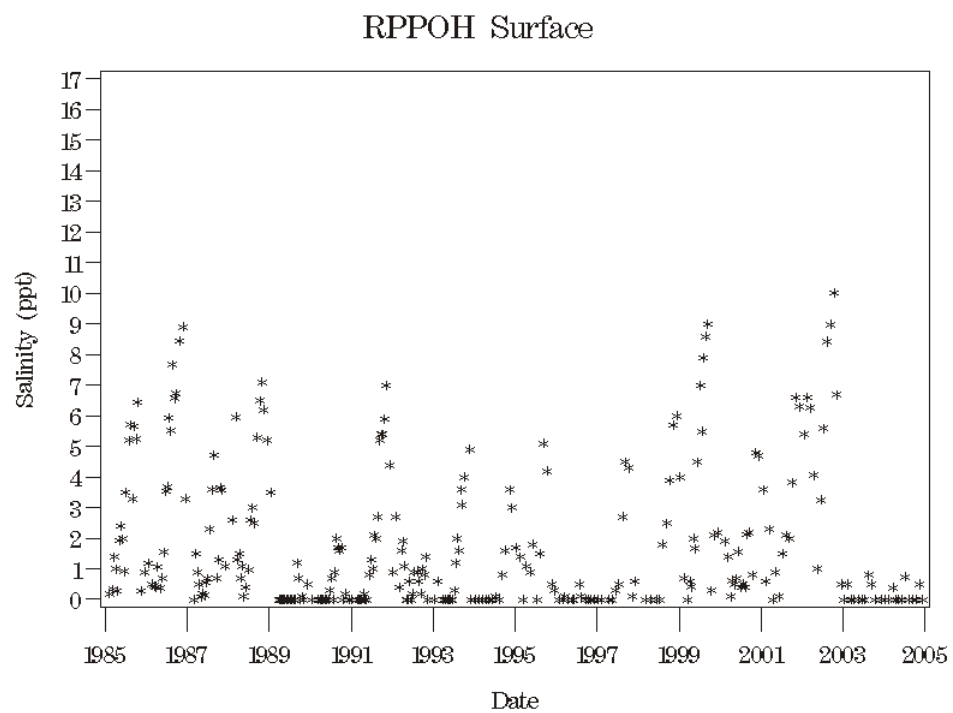
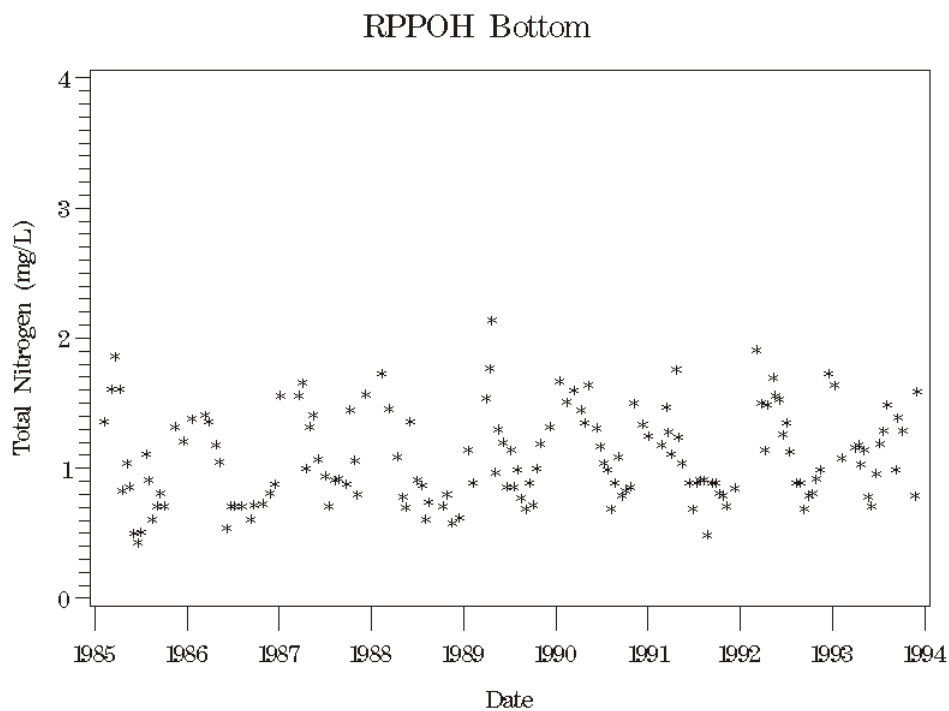


Figure 28. Scatterplot of surface salinity at segment RPPOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

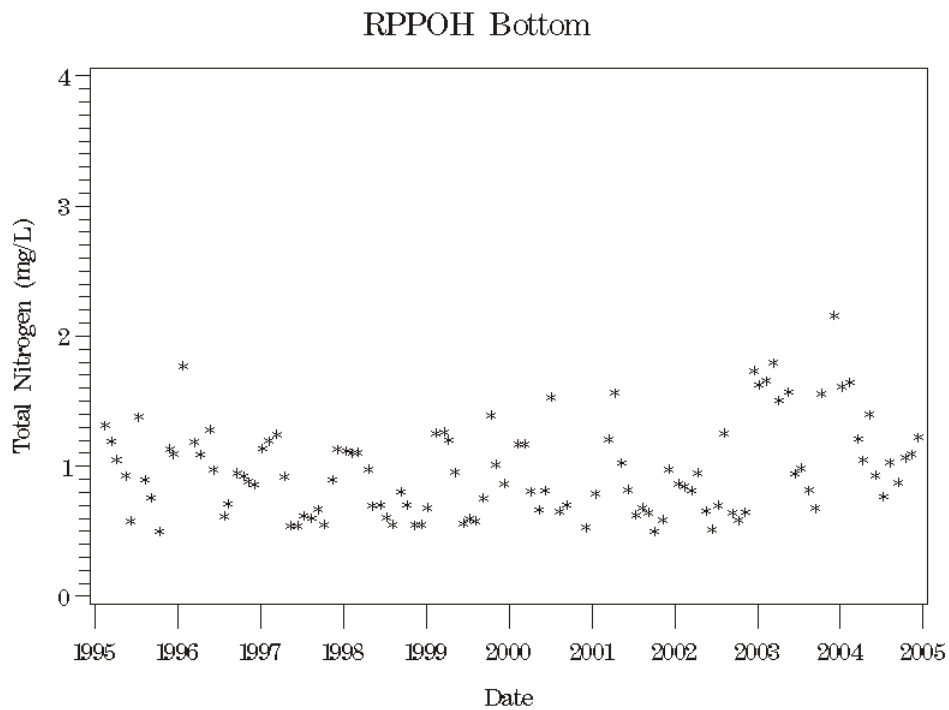
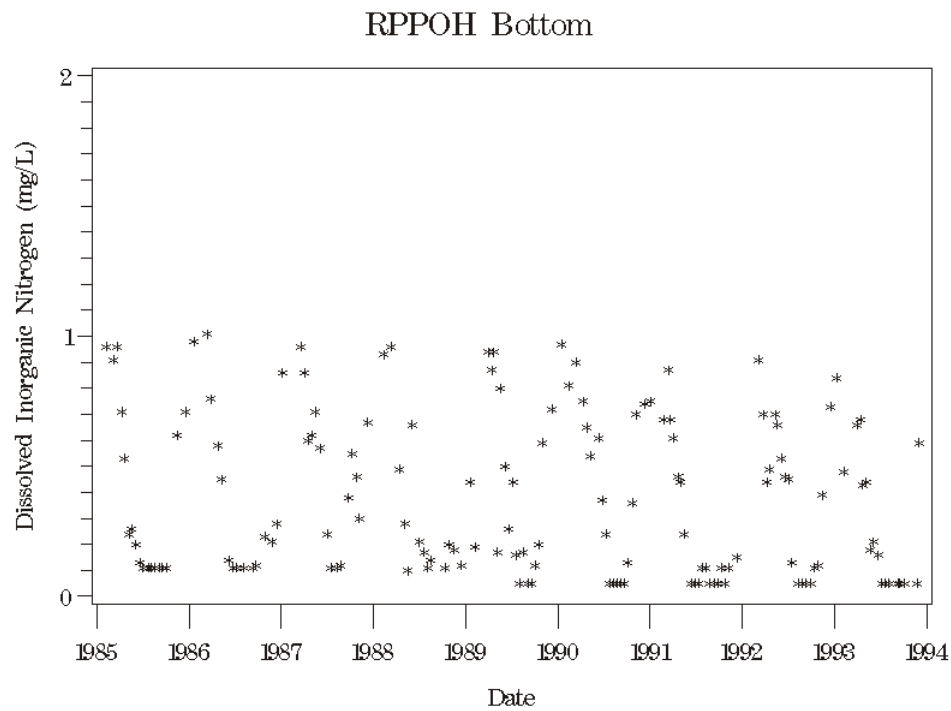


Figure 29. Scatterplots of bottom total nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

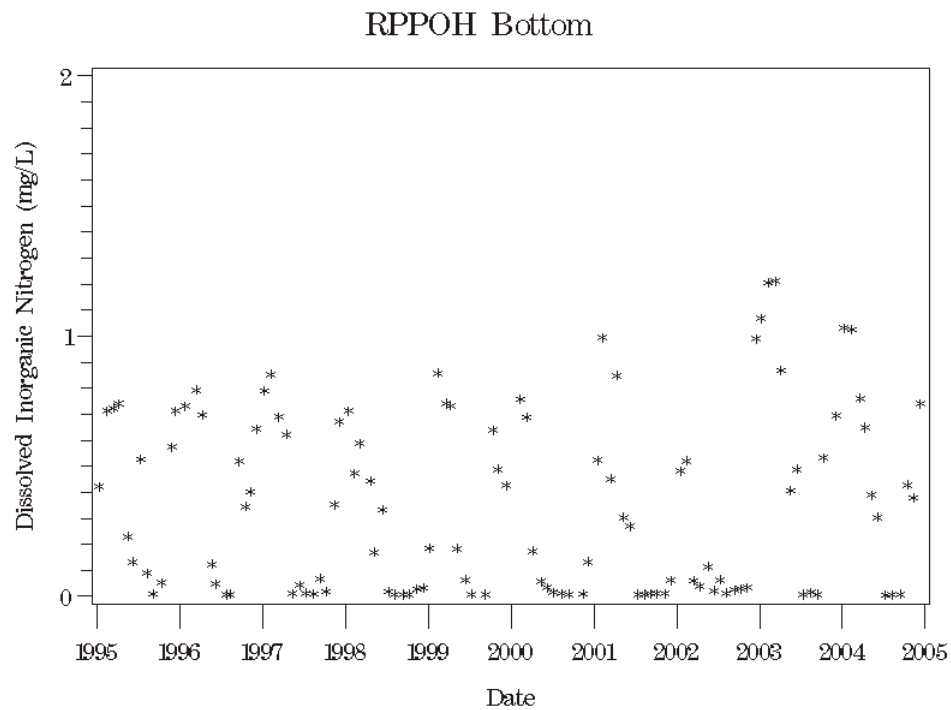
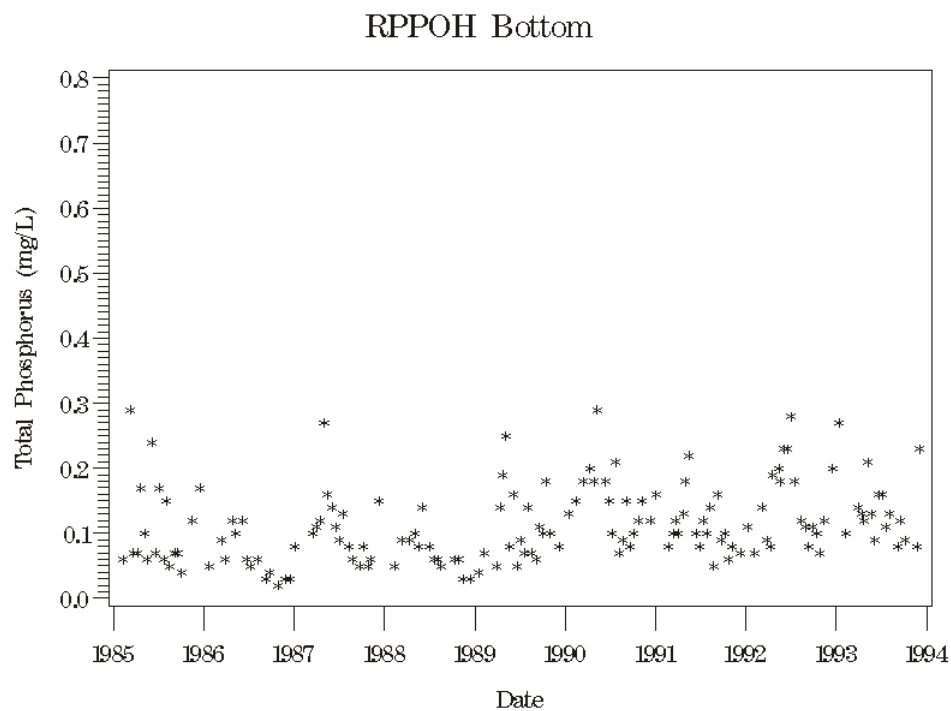


Figure 30. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

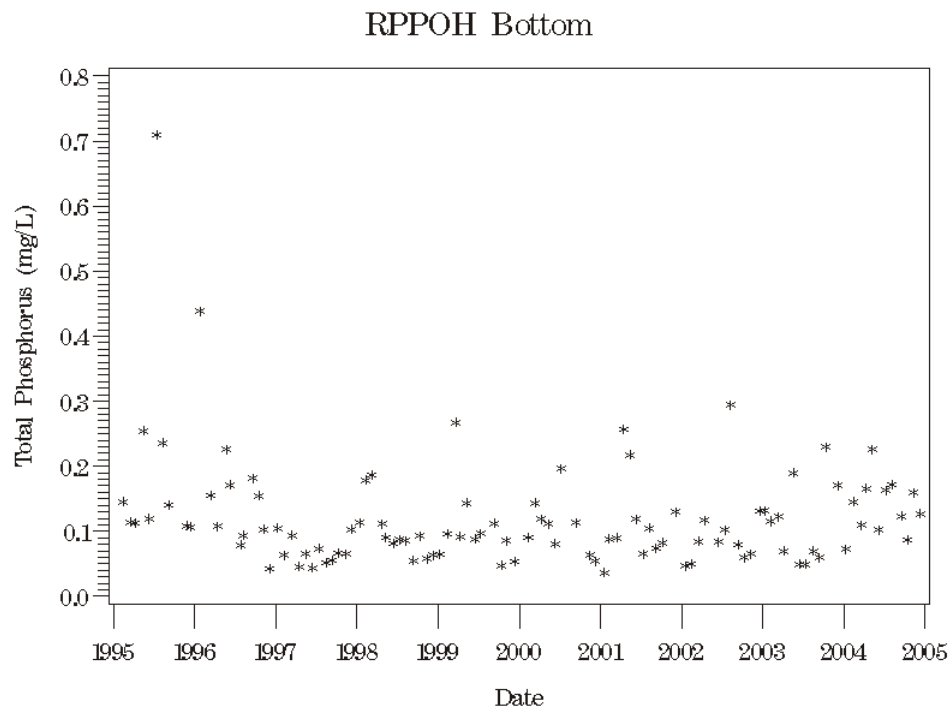
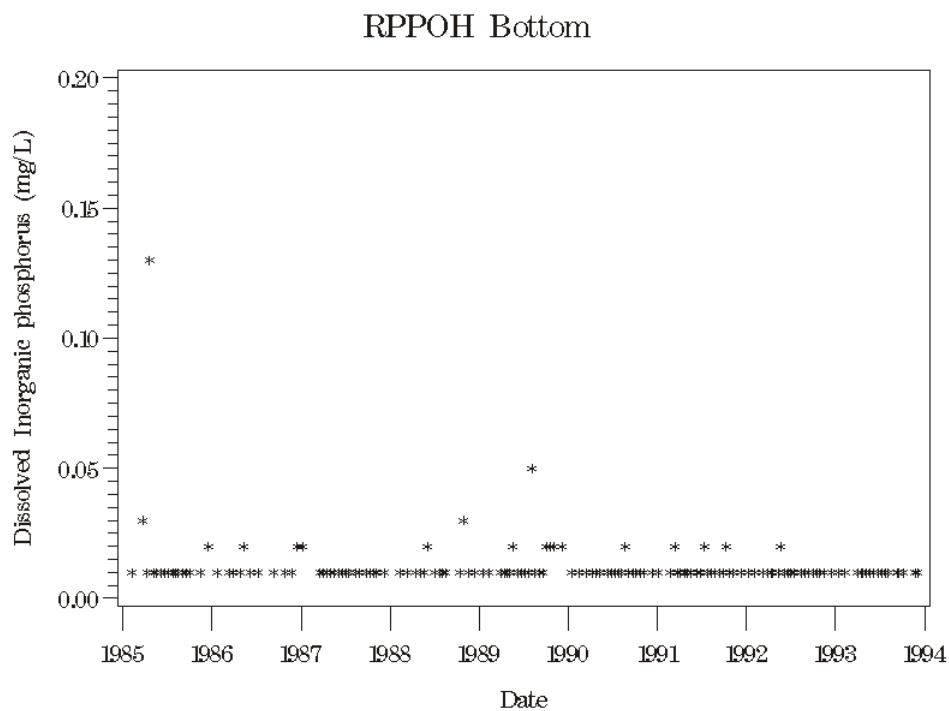


Figure 31. Scatterplots of bottom total phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

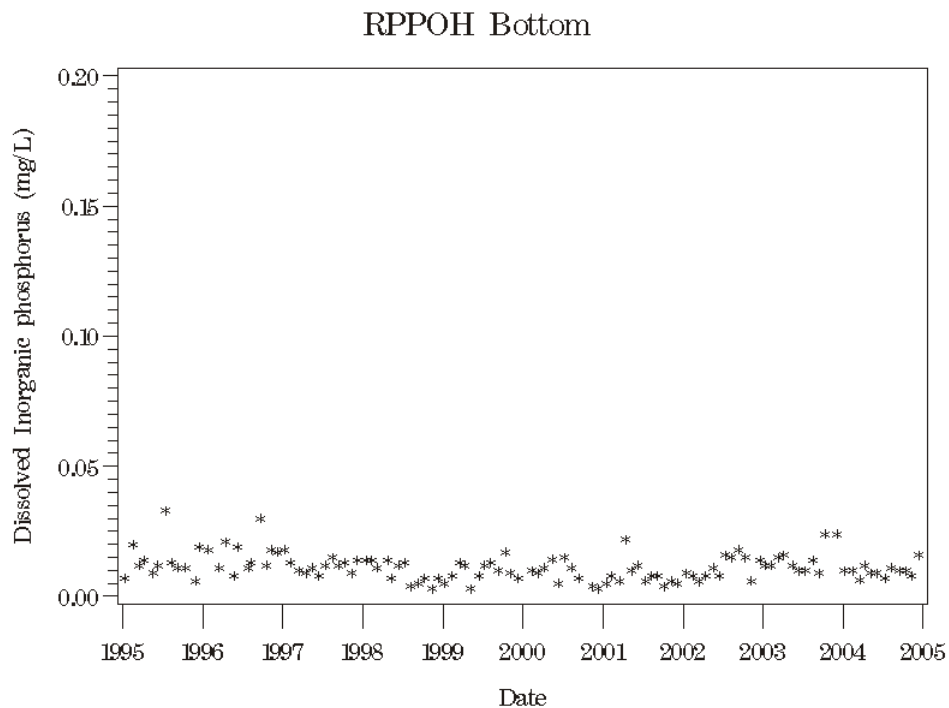


Figure 32. Scatterplots of bottom dissolved inorganic phosphorus at segment RPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

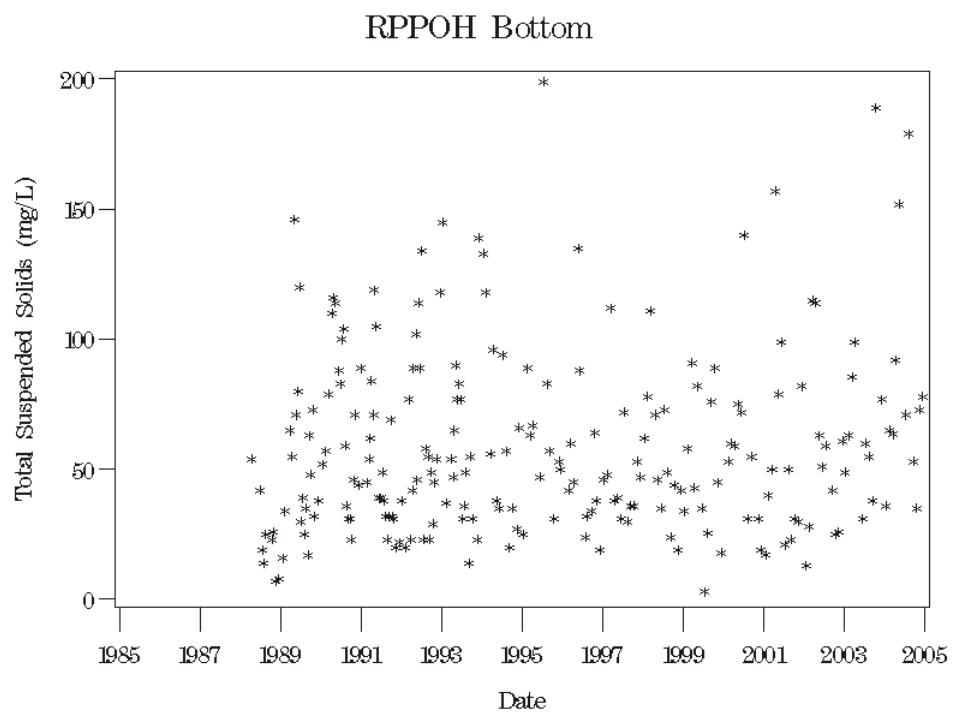


Figure 33. Scatterplot of bottom total suspended solids at segment RPOH during the period 1985 to 2004.

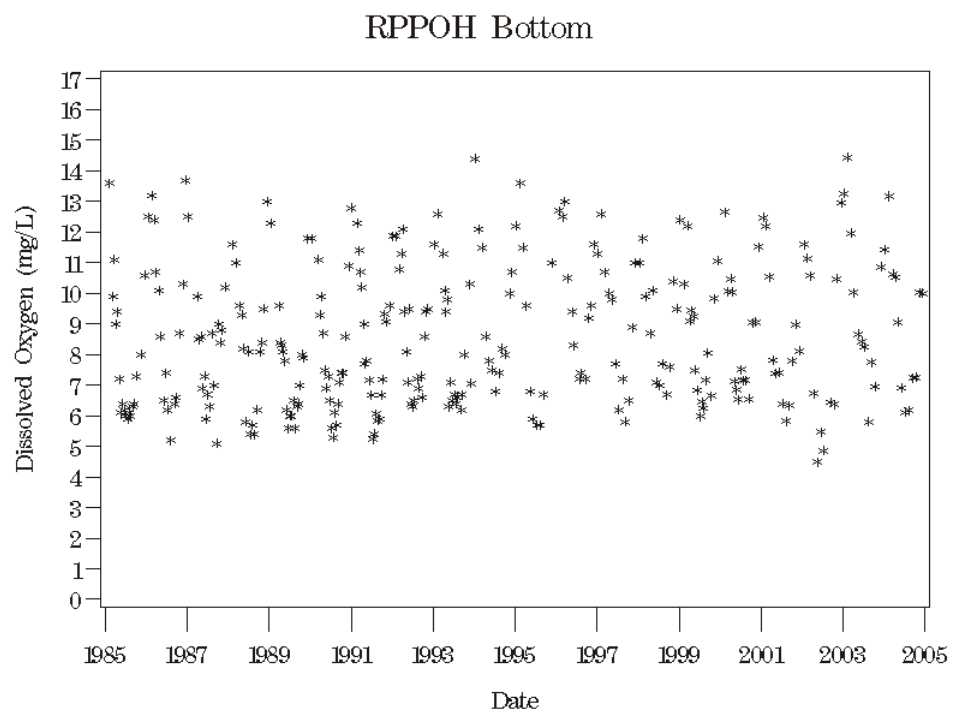


Figure 34. Scatterplot of bottom dissolved oxygen at segment RPPOH during the period 1985 to 2004.

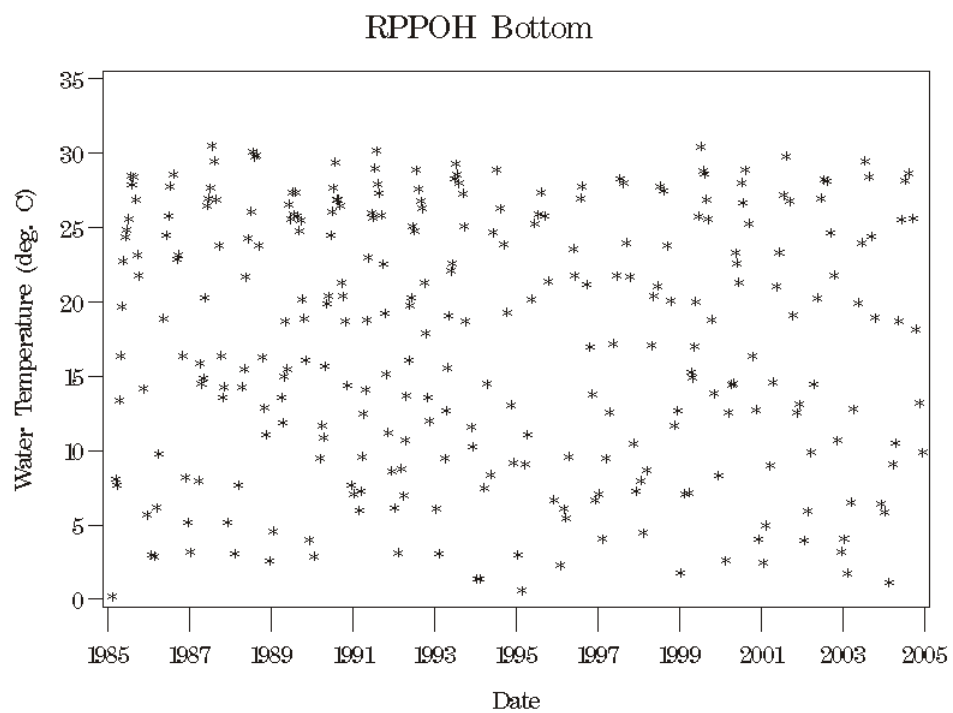


Figure 35. Scatterplot of bottom water temperature at segment RPPOH during the period 1985 to 2004.

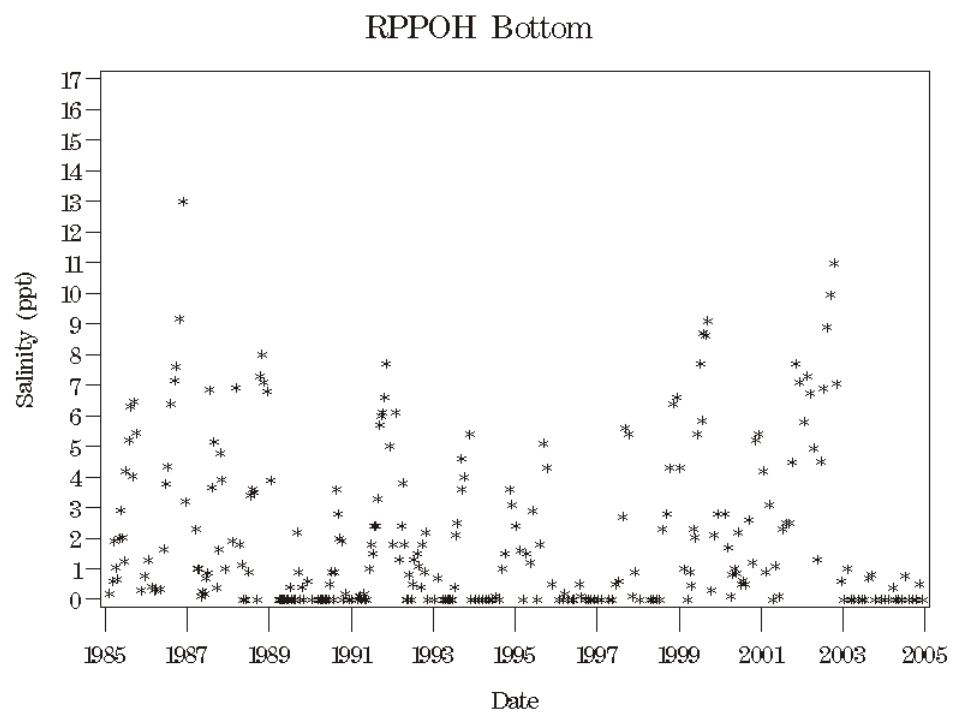
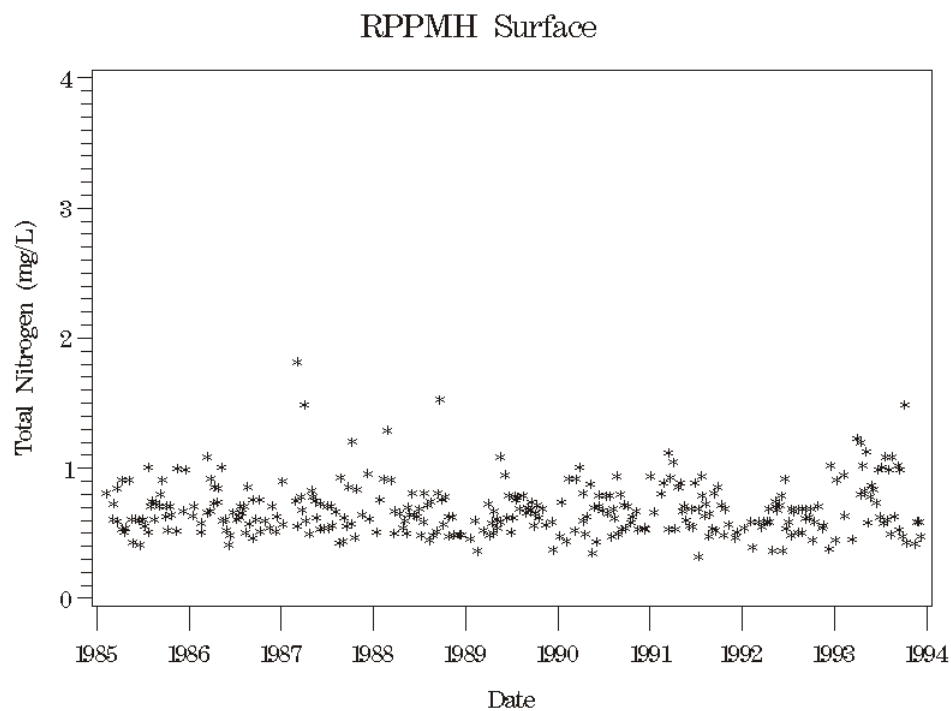


Figure 36. Scatterplot of bottom salinity at segment RPPOH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

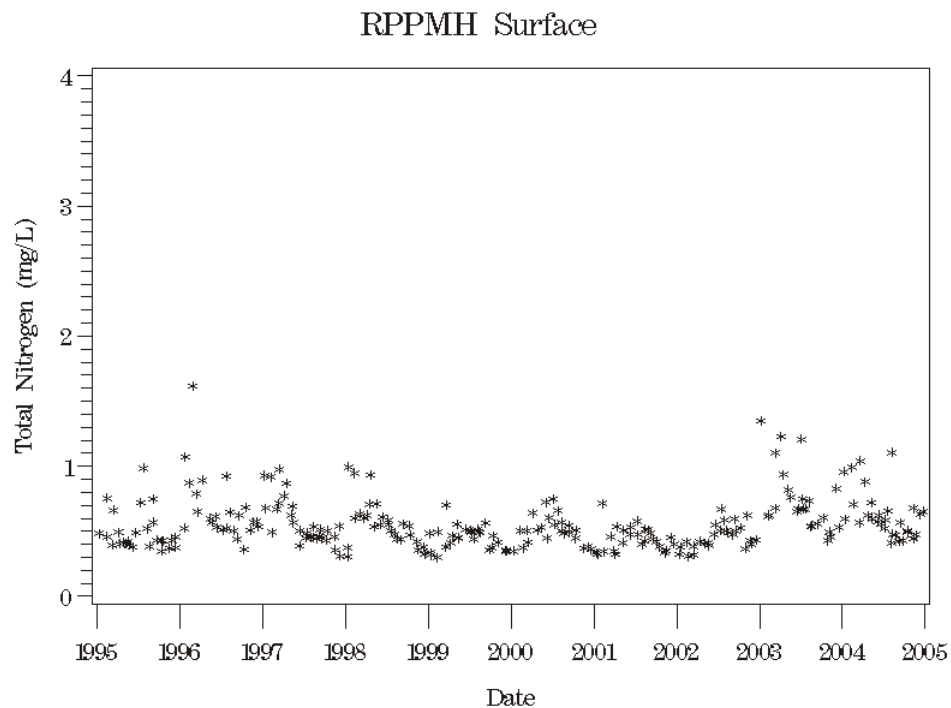
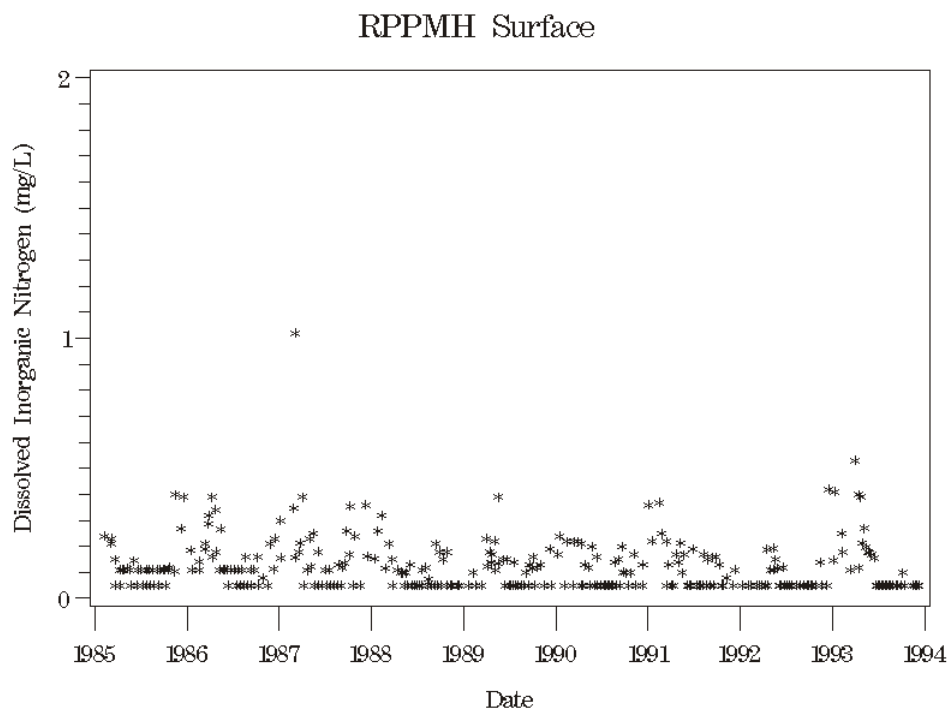


Figure 37. Scatterplots of surface total nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

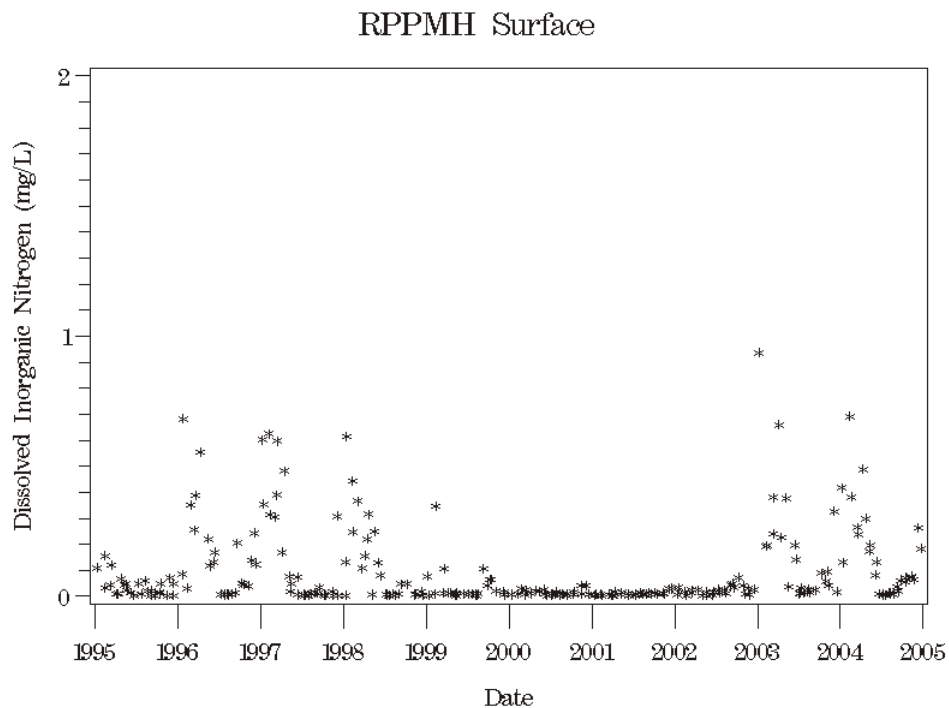
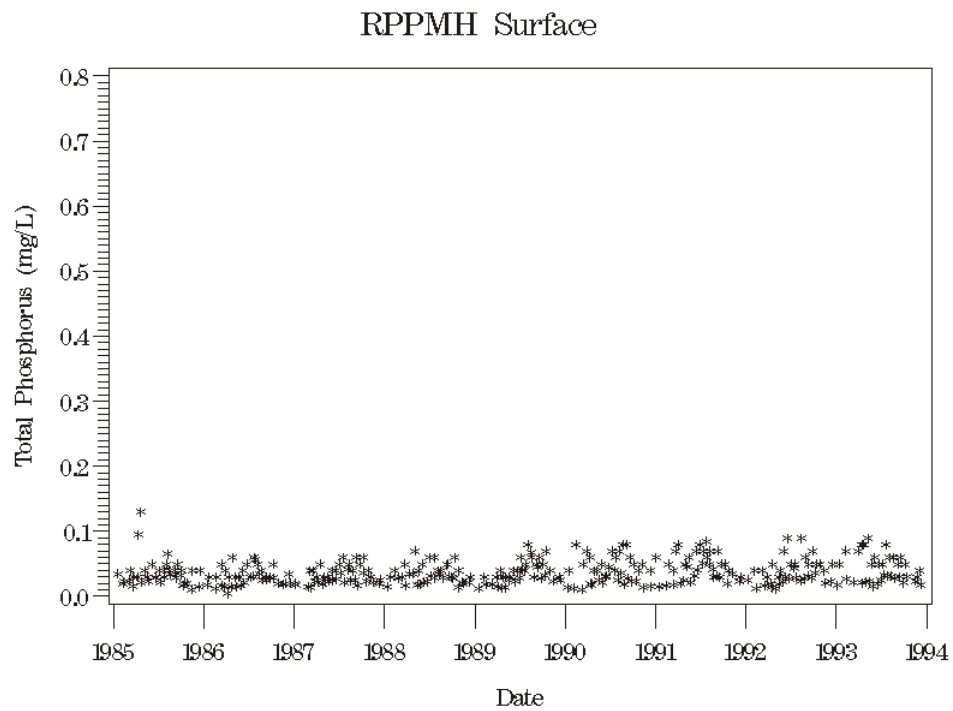


Figure 38. Scatterplots of surface dissolved inorganic nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

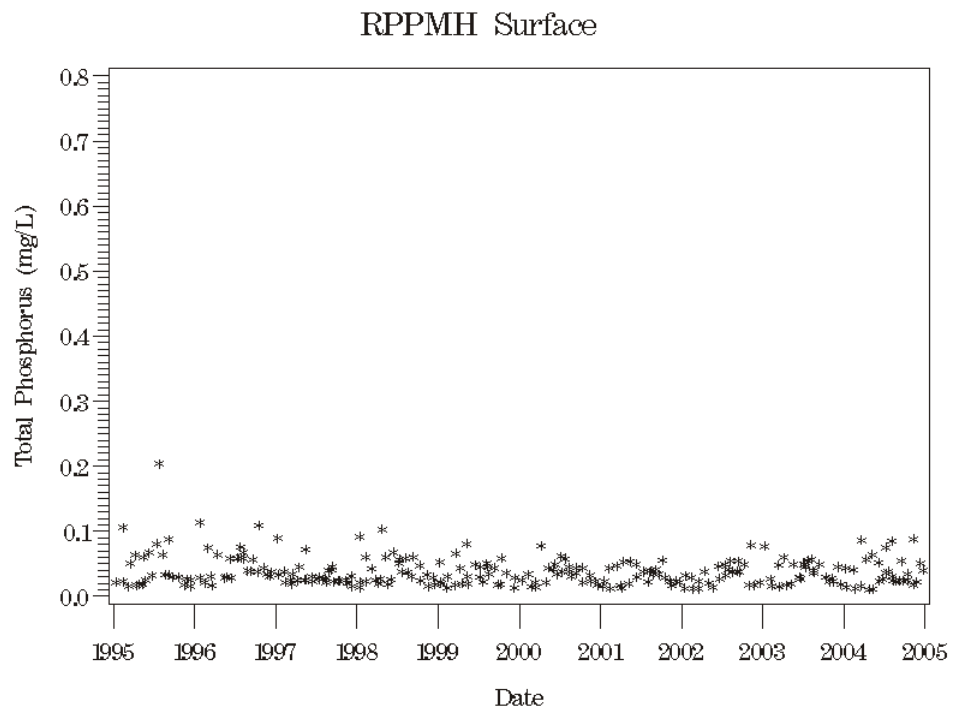
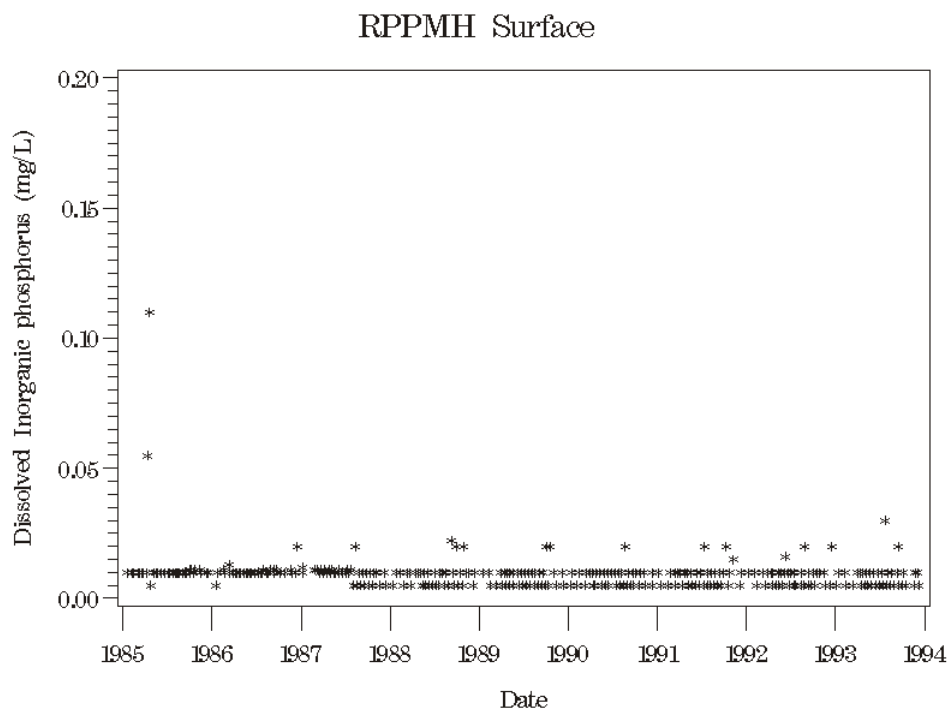


Figure 39. Scatterplots of surface total phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

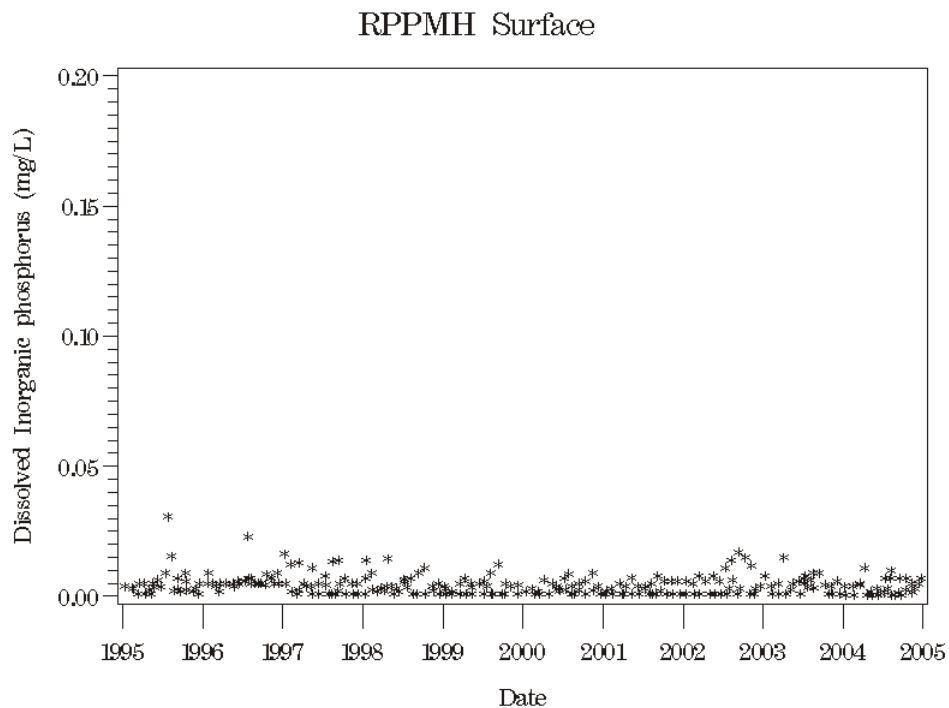


Figure 40. Scatterplots of surface dissolved inorganic phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

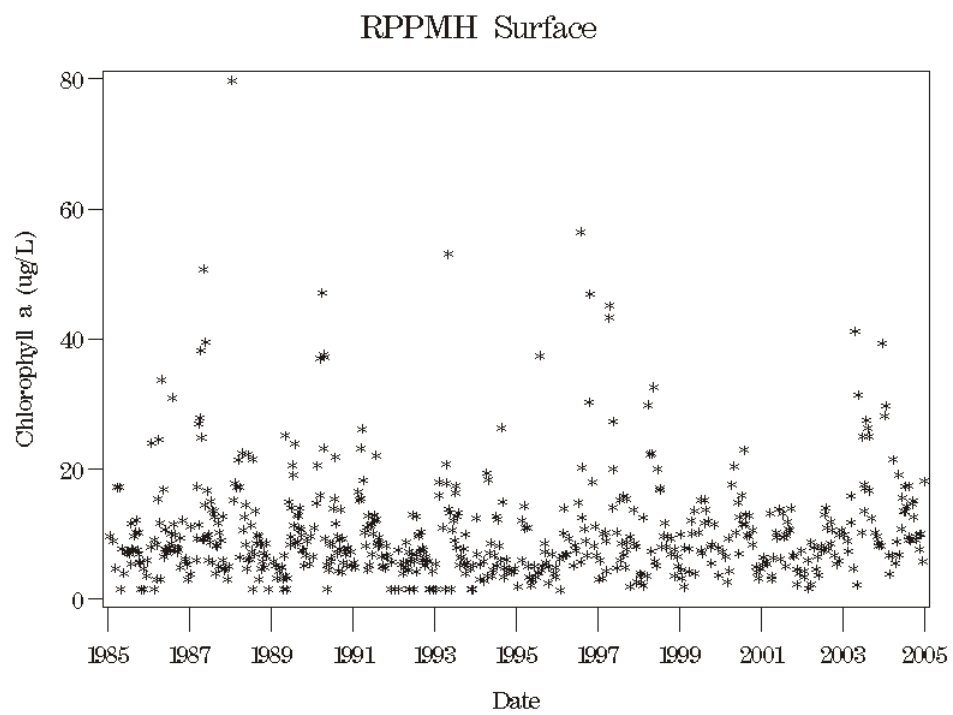


Figure 41. Scatterplot of surface chlorophyll *a* at segment RPPMH during the period 1985 to 2004.

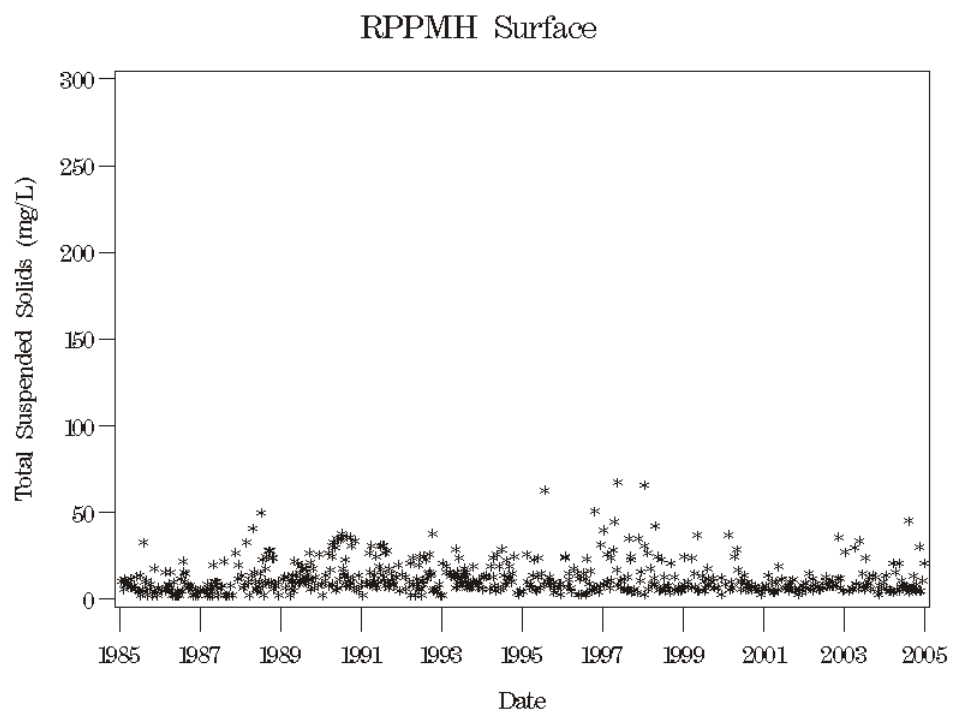


Figure 42. Scatterplot of surface total suspended solids at segment RPPMH during the period 1985 to 2004.

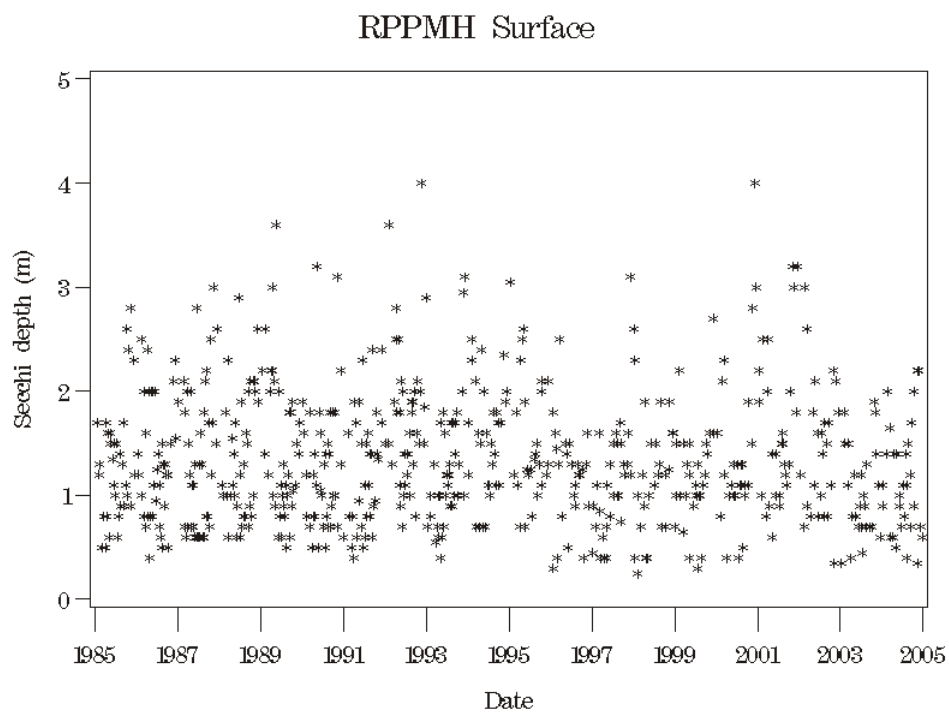


Figure 43. Scatterplot of secchi depth at segment RPPMH during the period 1985 to 2004.

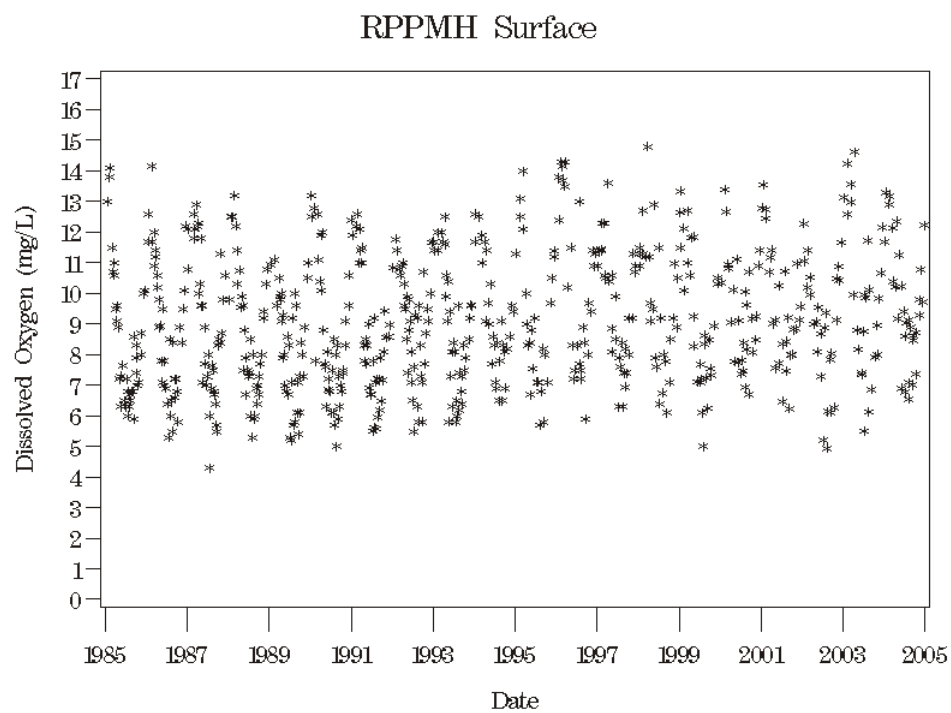


Figure 44. Scatterplot of surface dissolved oxygen at segment RPPMH during the period 1985 to 2004.

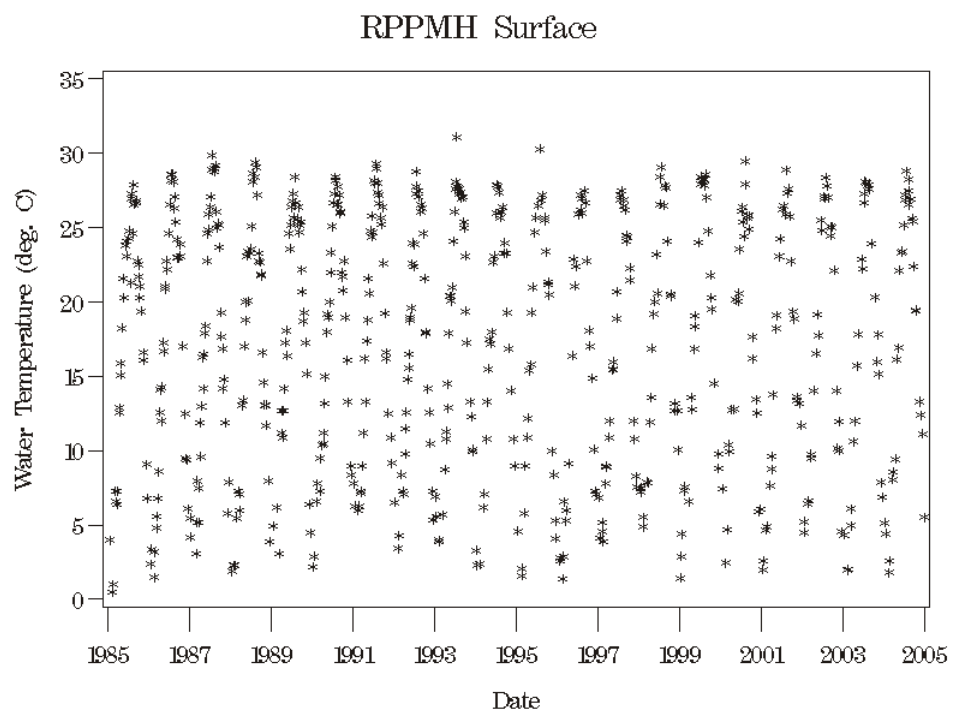


Figure 45. Scatterplot of surface water temperature at segment RPPMH during the period 1985 to 2004.

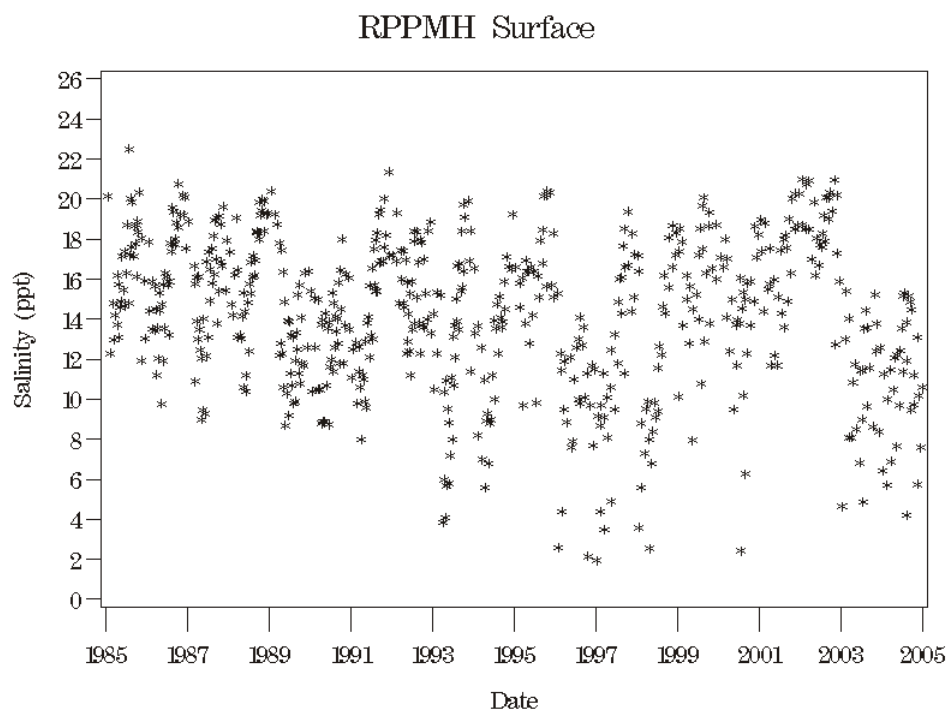
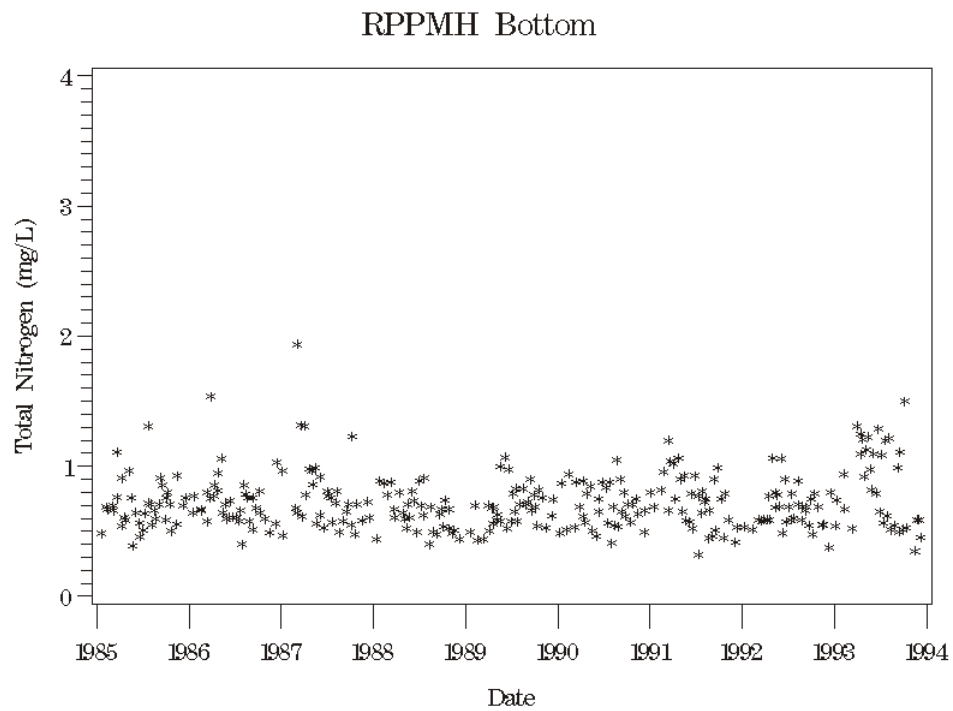


Figure 46. Scatterplot of surface salinity at segment RPPMH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

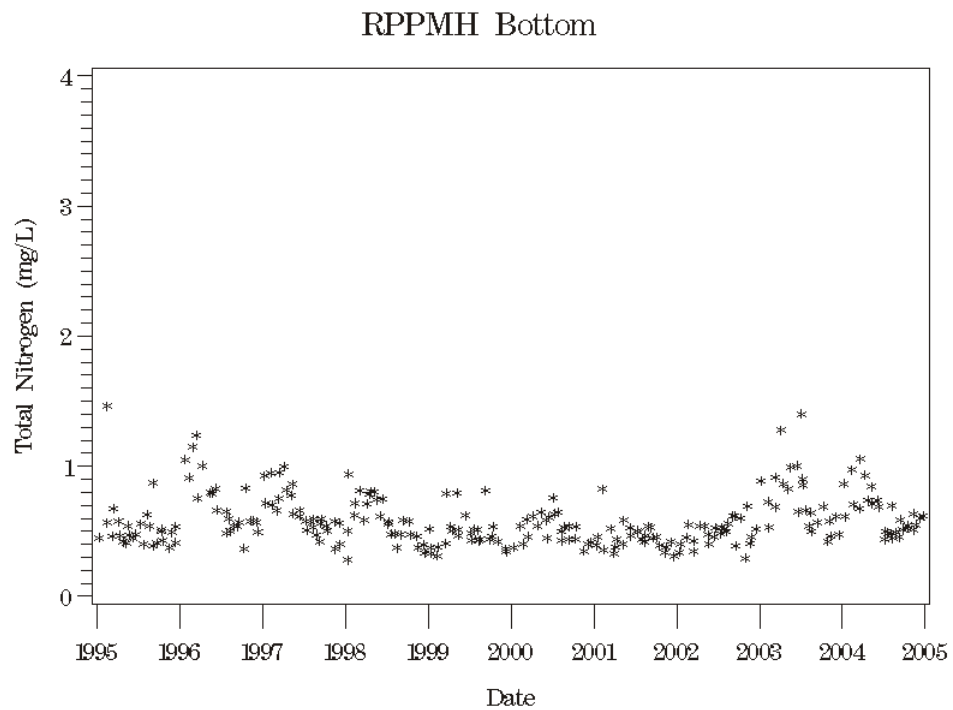
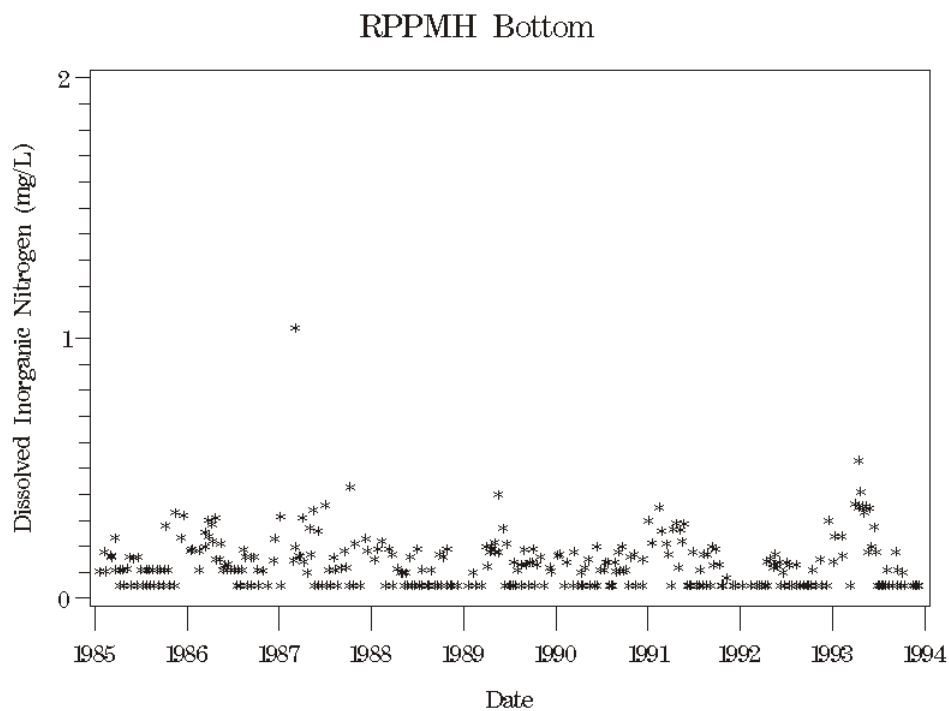


Figure 47. Scatterplots of bottom total nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

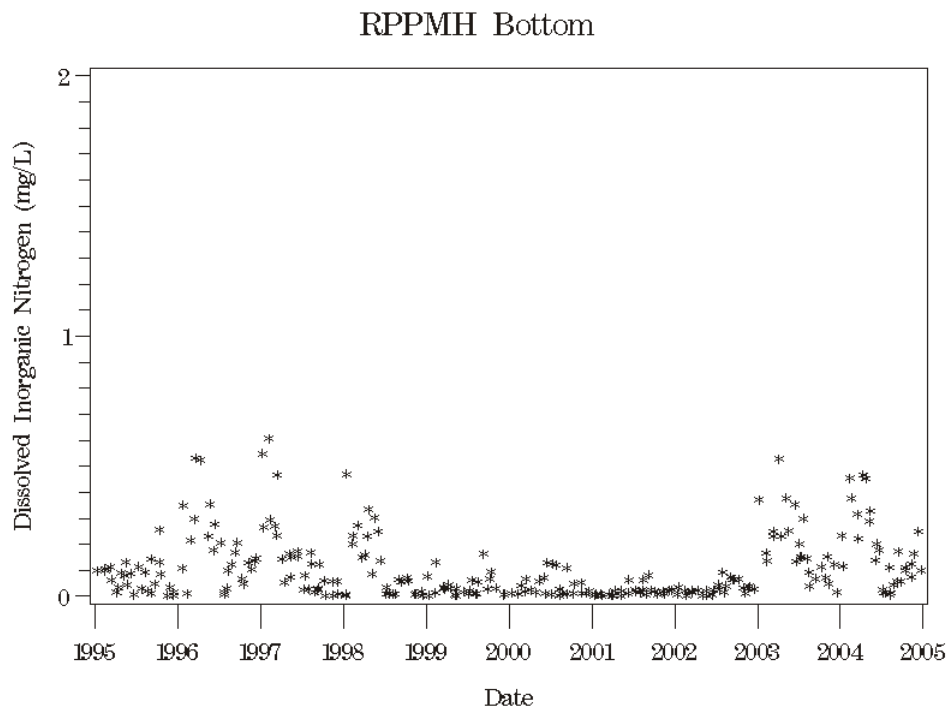
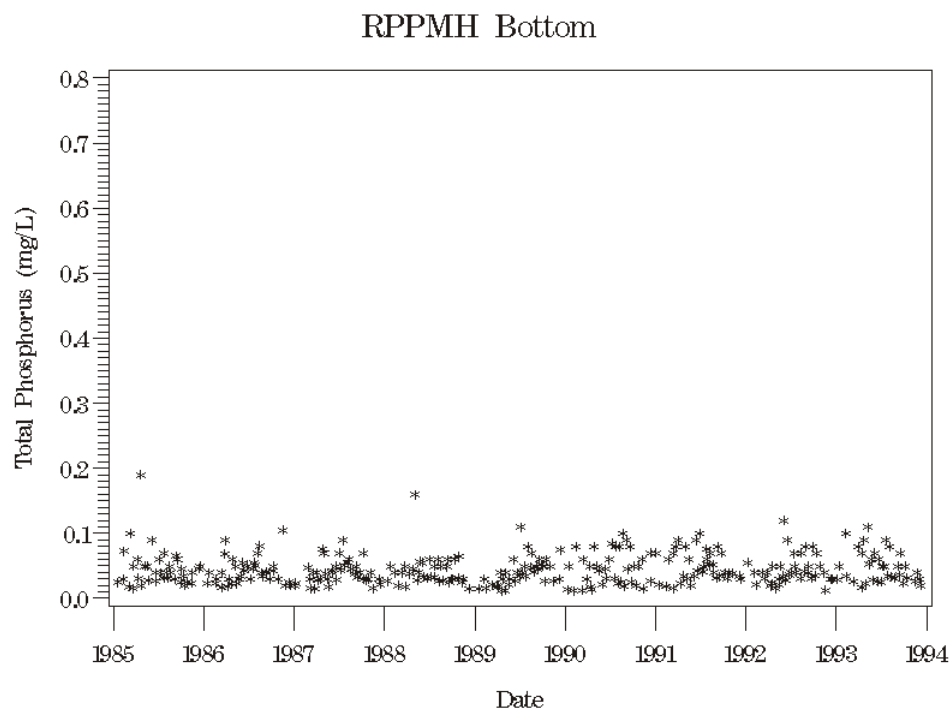


Figure 48. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

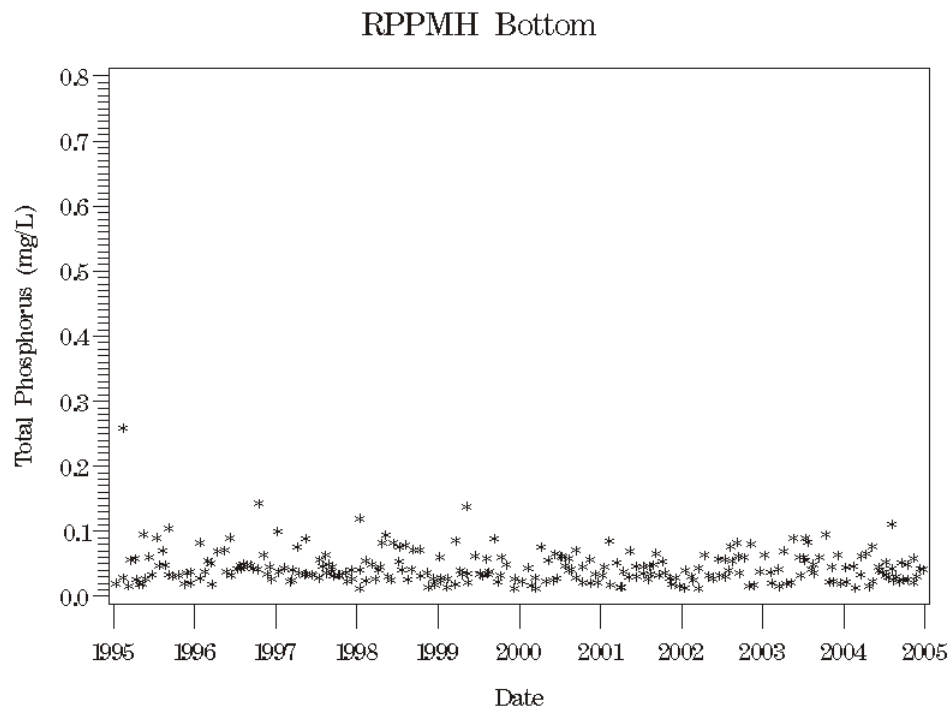
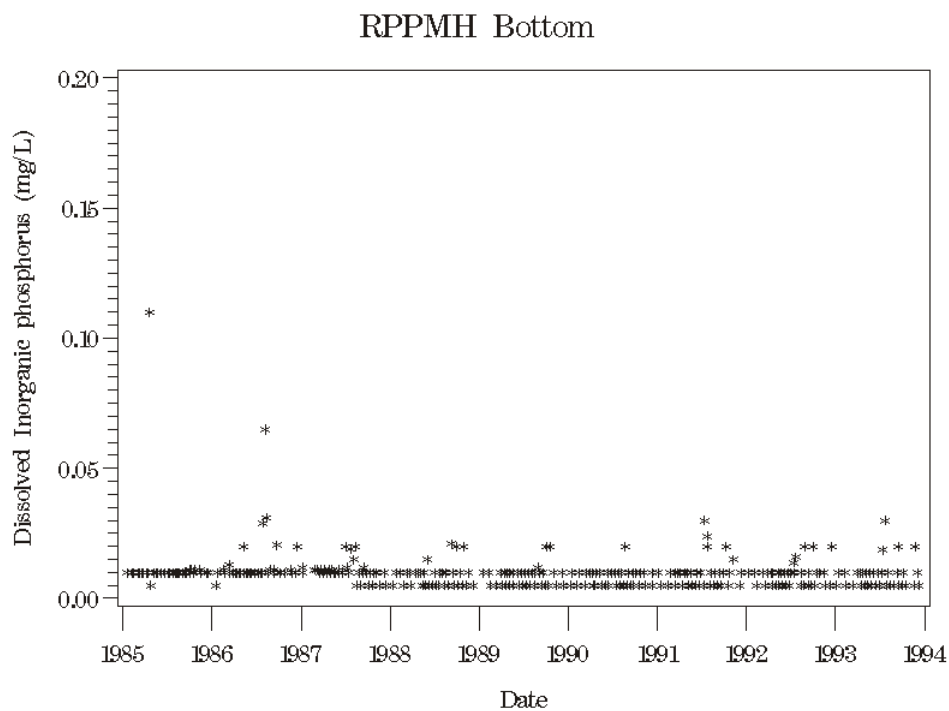


Figure 49. Scatterplots of bottom total phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

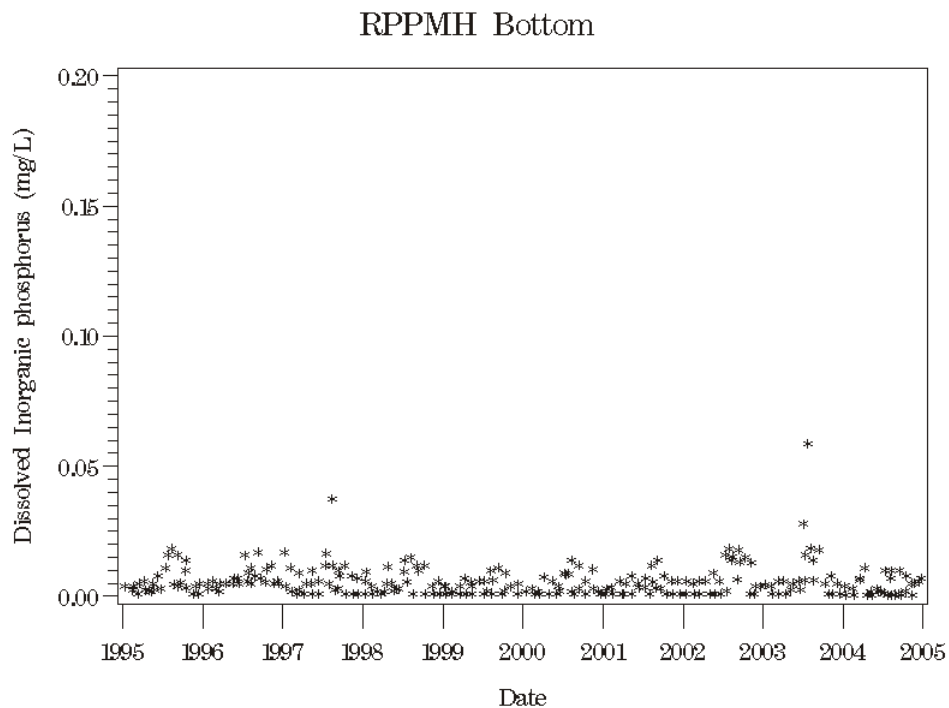


Figure 50. Scatterplots of bottom dissolved inorganic phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

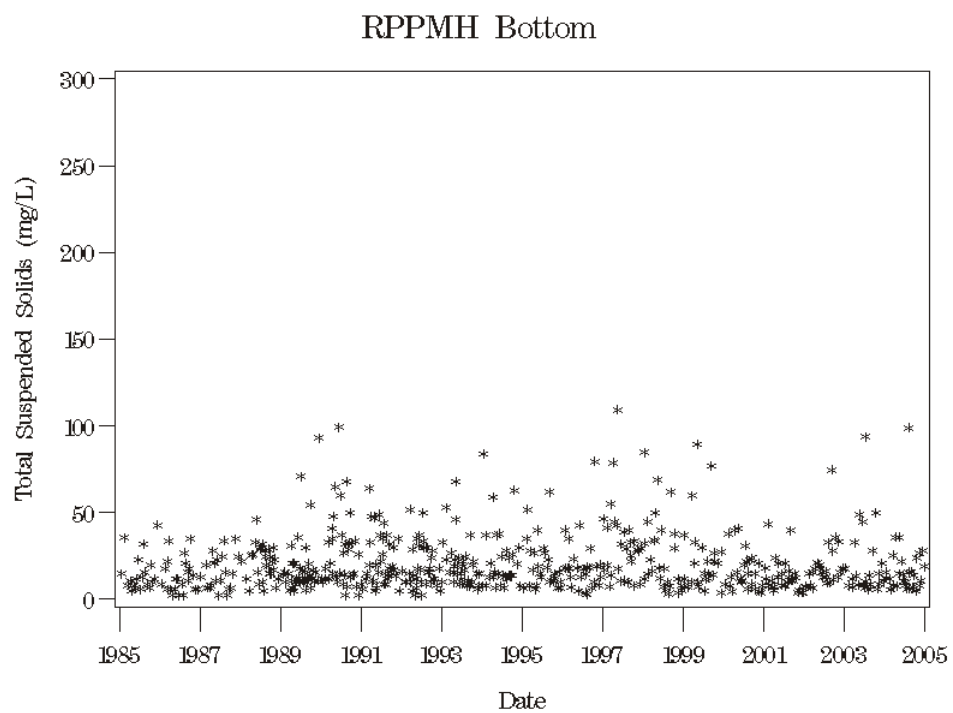


Figure 51. Scatterplot of bottom total suspended solids at segment RPPMH during the period 1985 to 2004.

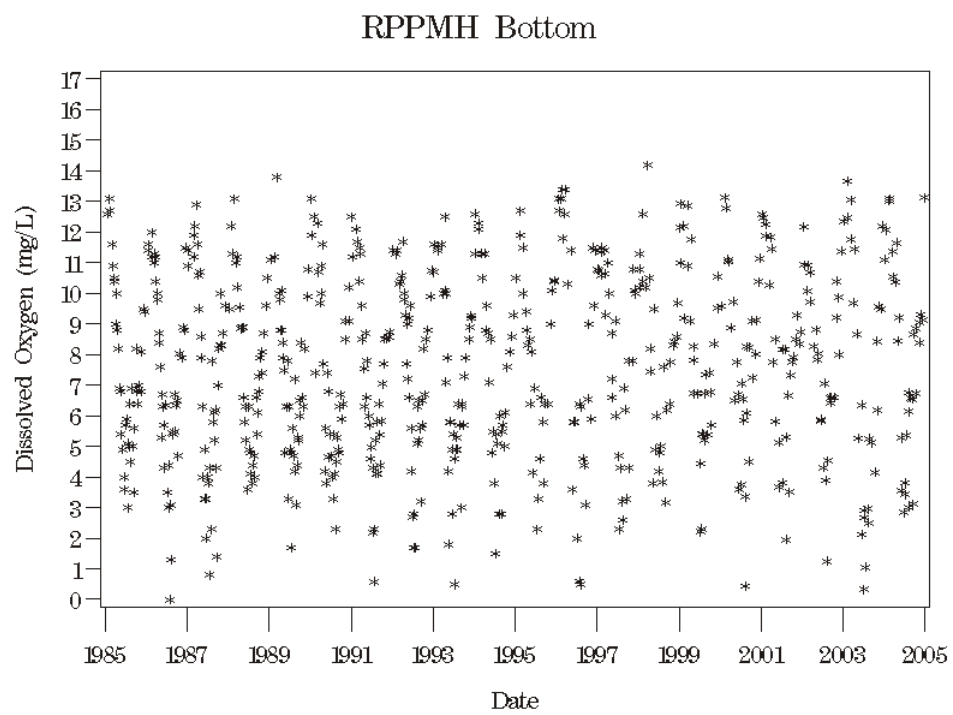


Figure 52. Scatterplot of bottom dissolved oxygen at segment RPPMH during the period 1985 to 2004.

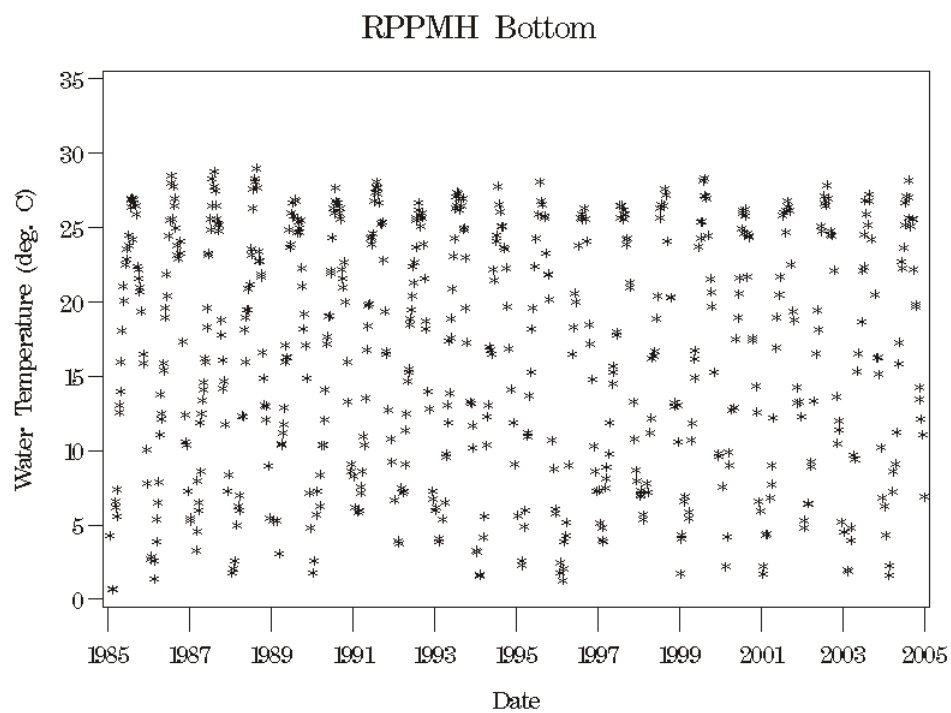


Figure 53. Scatterplot of bottom water temperature at segment RPPMH during the period 1985 to 2004.

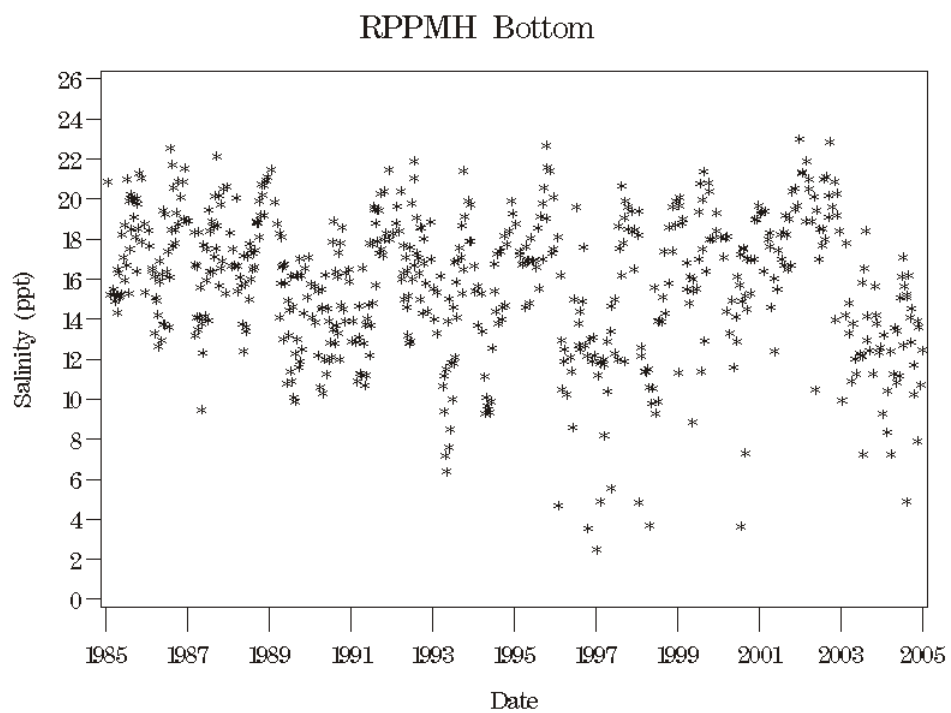
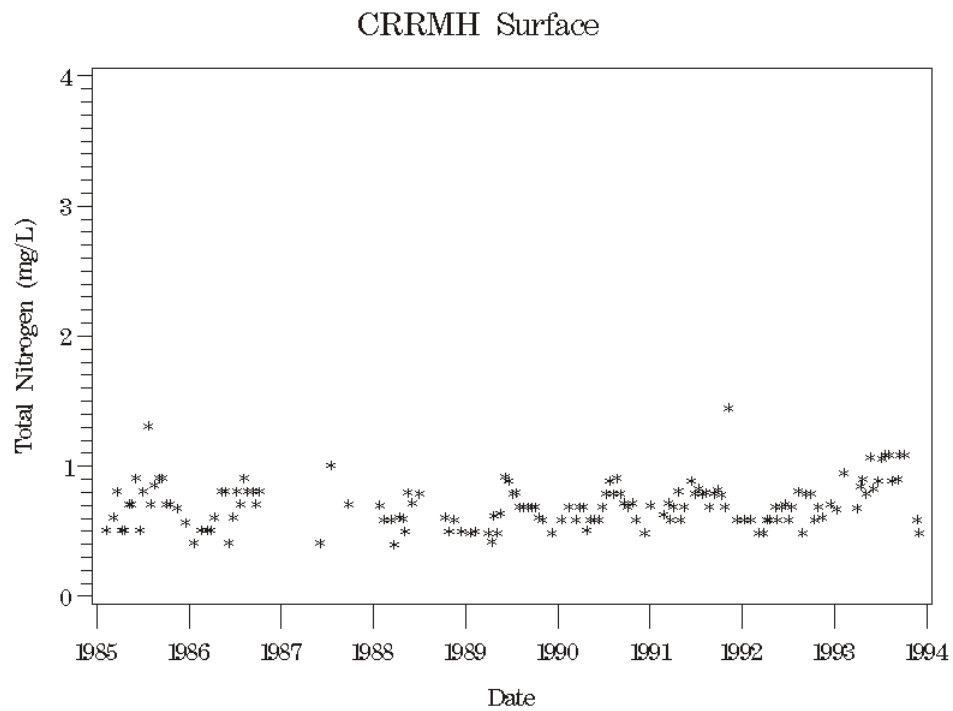


Figure 54. Scatterplot of bottom salinity at segment RPPMH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

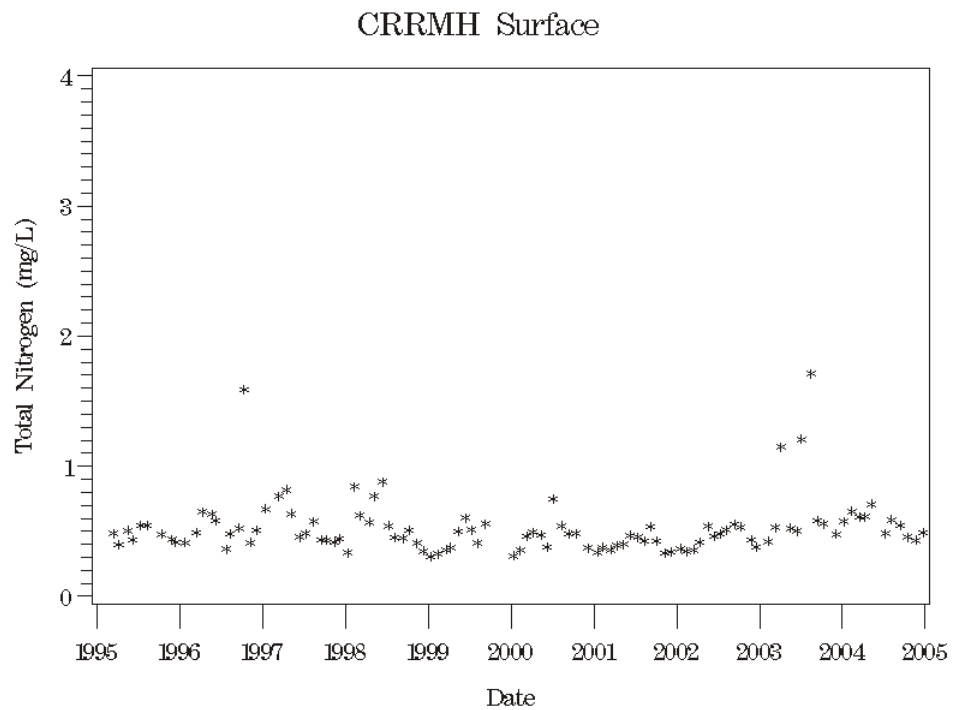
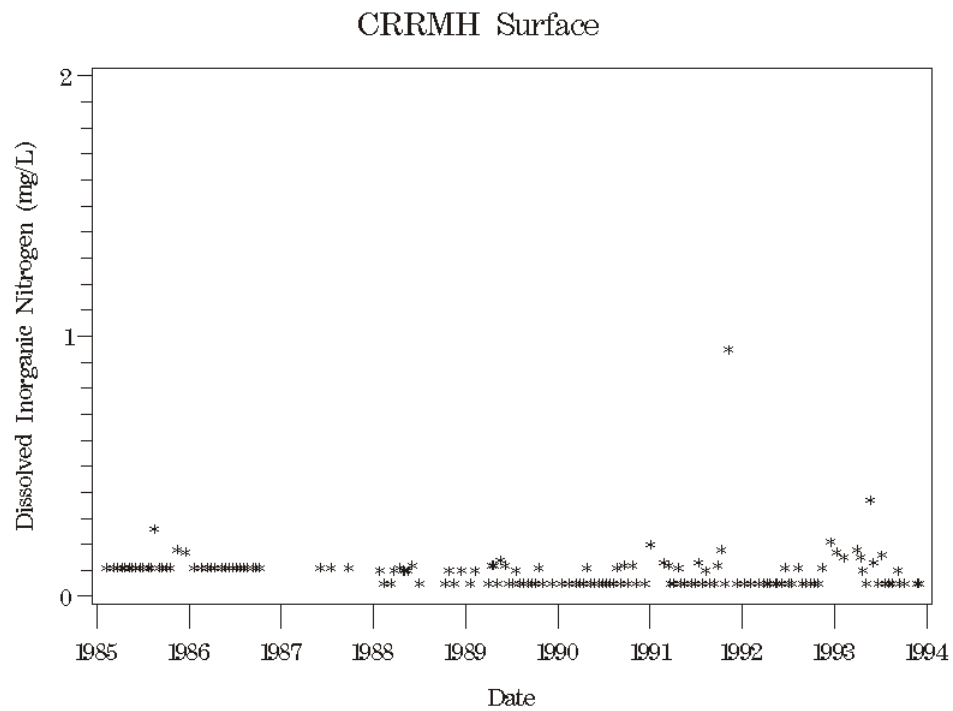


Figure 55. Scatterplots of surface total nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

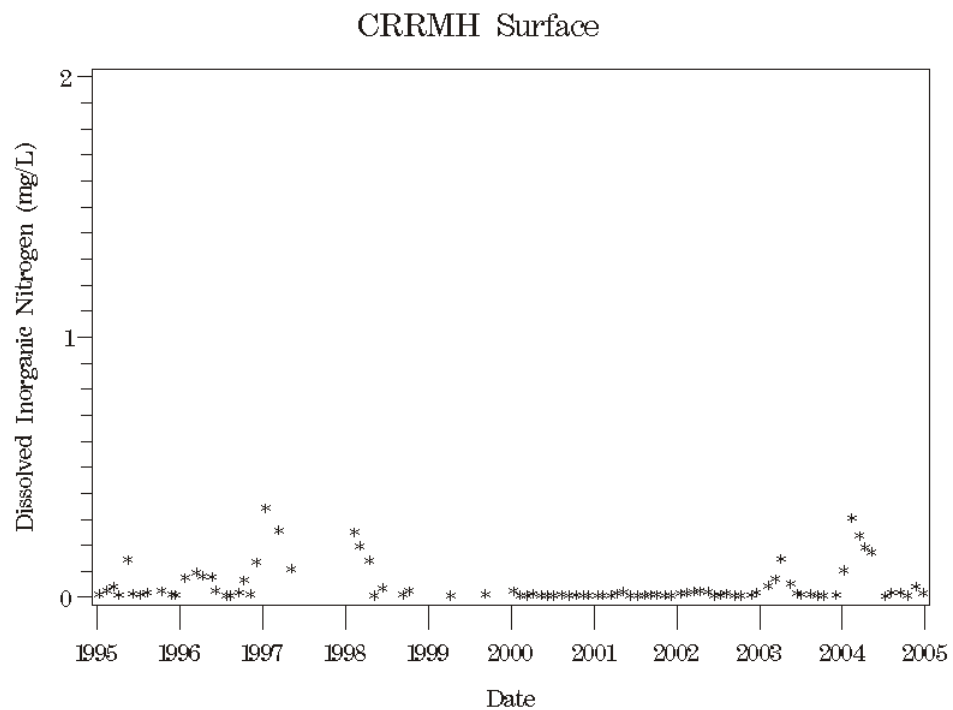
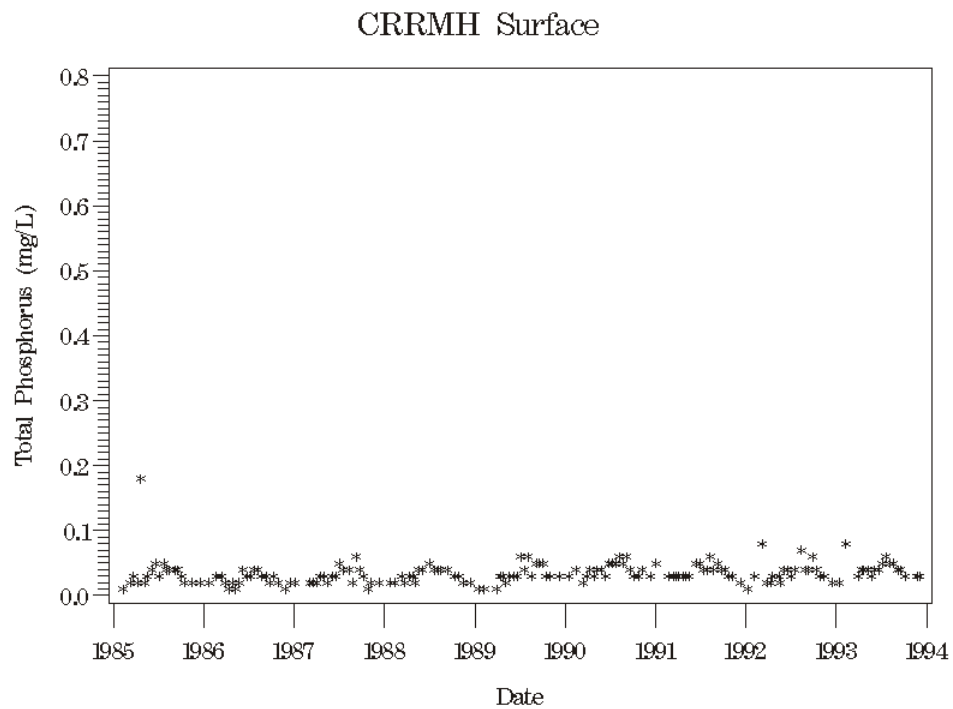


Figure 56. Scatterplots of surface dissolved inorganic nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

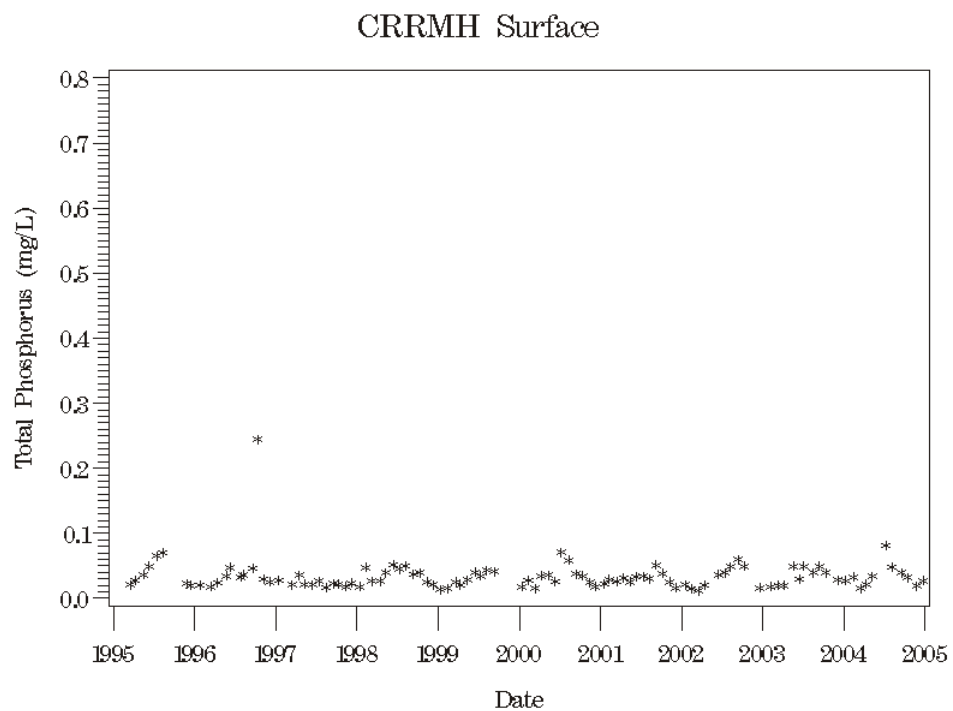
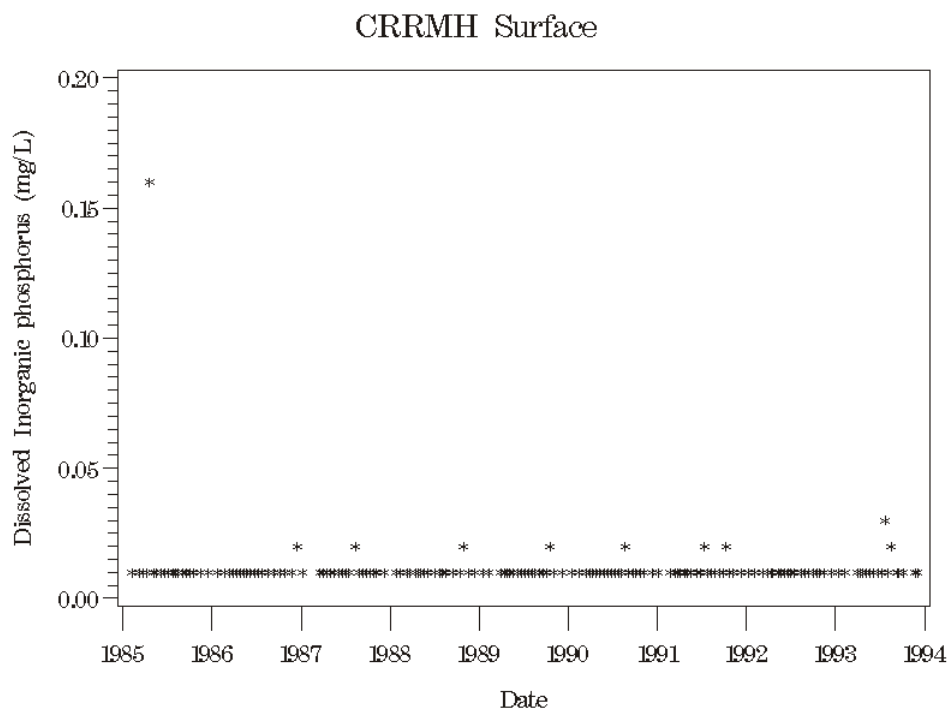


Figure 57. Scatterplots of surface total phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

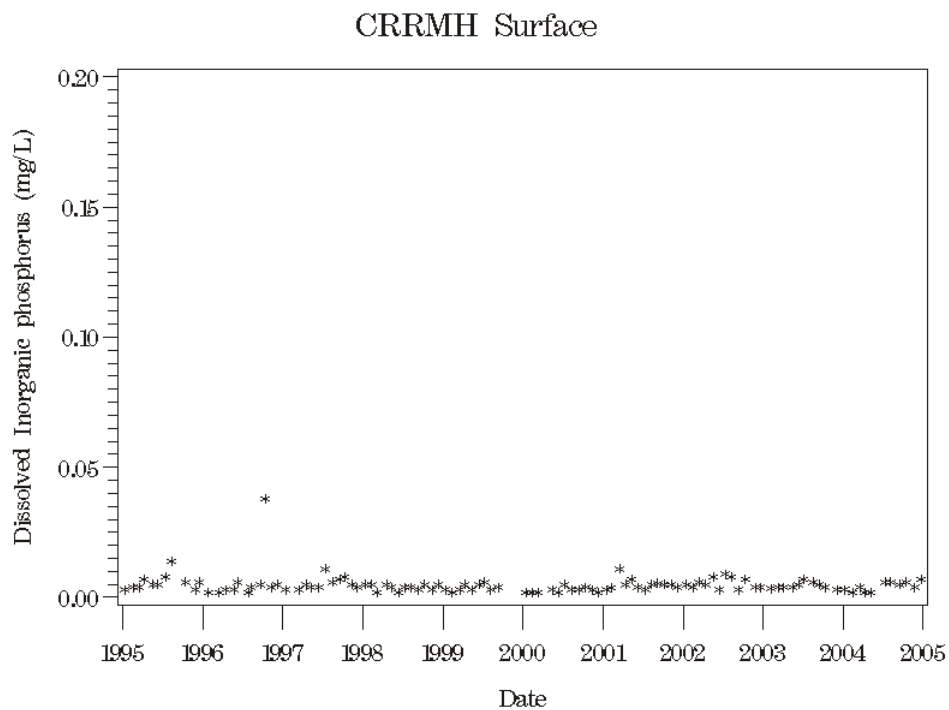


Figure 58. Scatterplots of surface dissolved inorganic phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

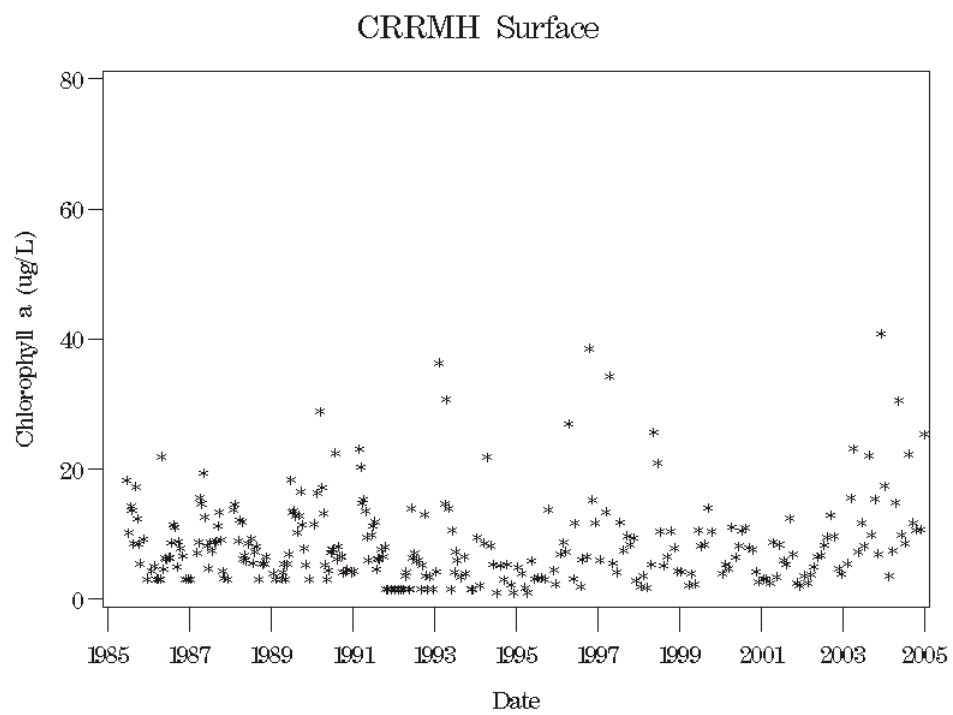


Figure 59. Scatterplot of surface chlorophyll *a* at segment CRRMH during the period 1985 to 2004.

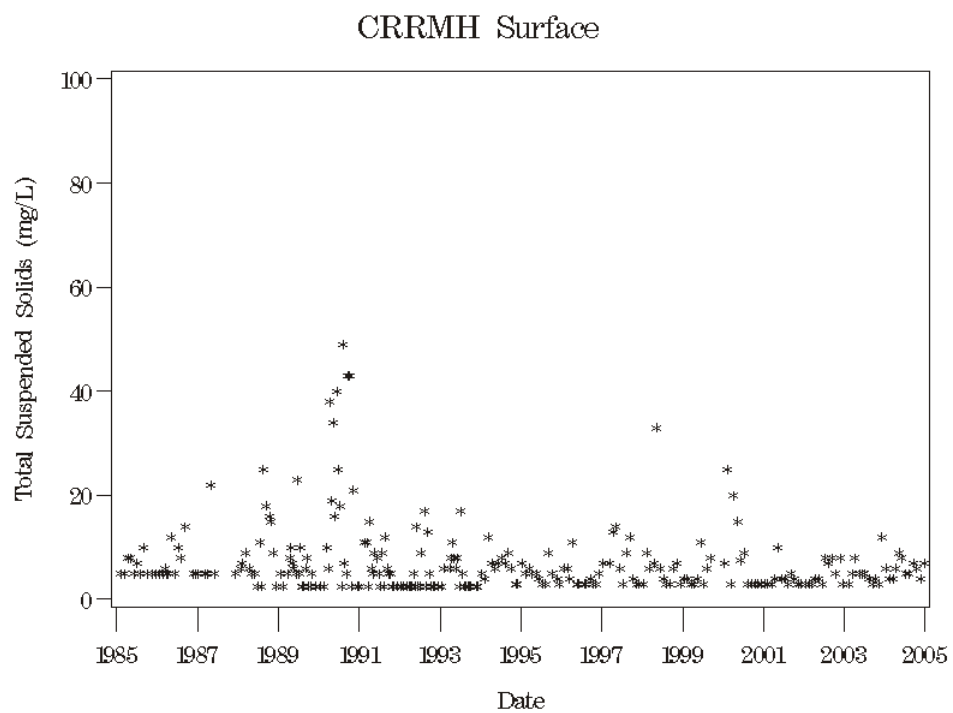


Figure 60. Scatterplot of surface total suspended solids at segment CRRMH during the period 1985 to 2004.

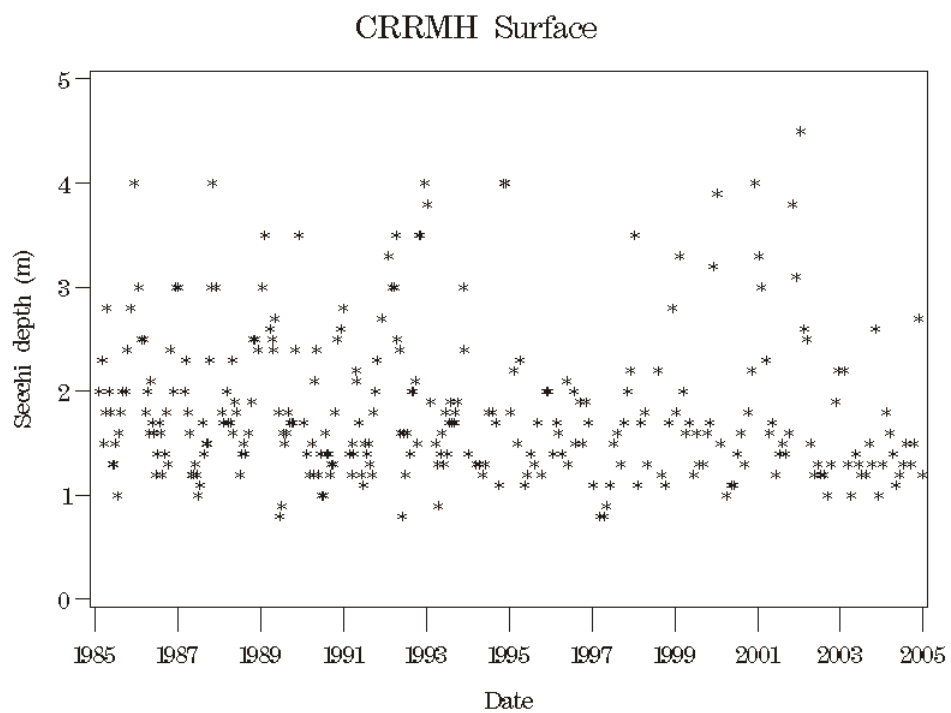


Figure 61. Scatterplot of secchi depth at segment CRRMH during the period 1985 to 2004.

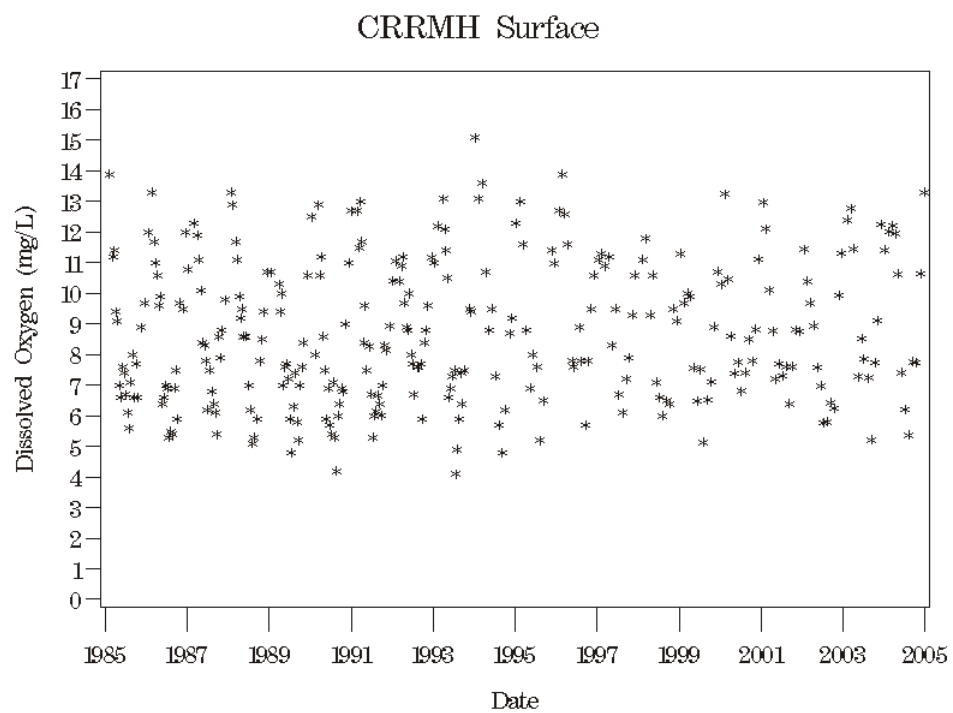


Figure 62. Scatterplot of surface dissolved oxygen at segment CRRMH during the period 1985 to 2004.

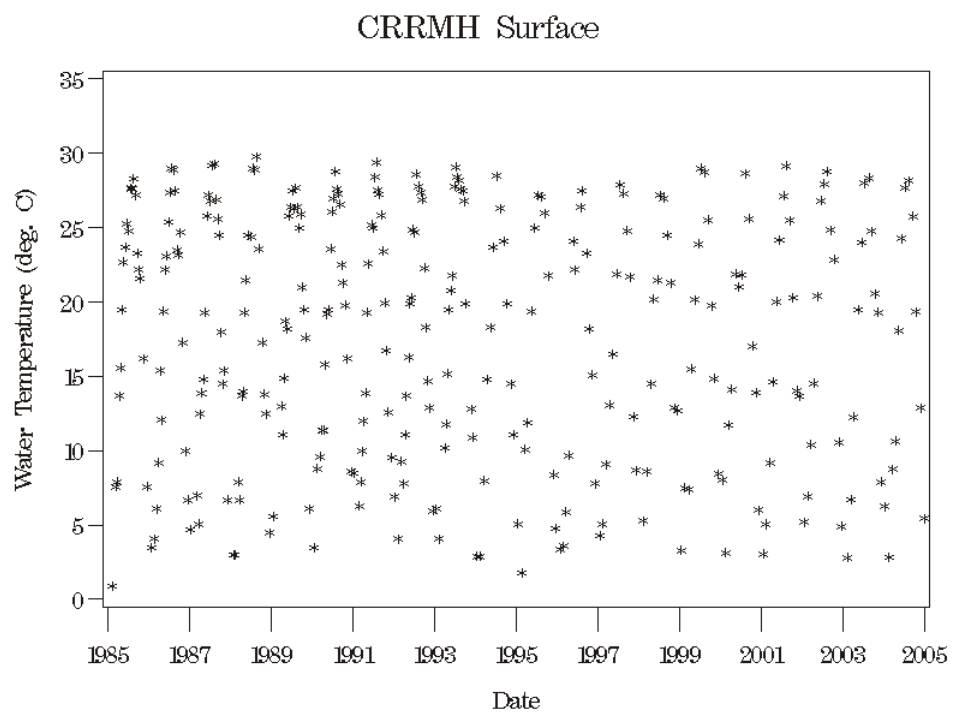


Figure 63. Scatterplot of surface water temperature at segment CRRMH during the period 1985 to 2004.

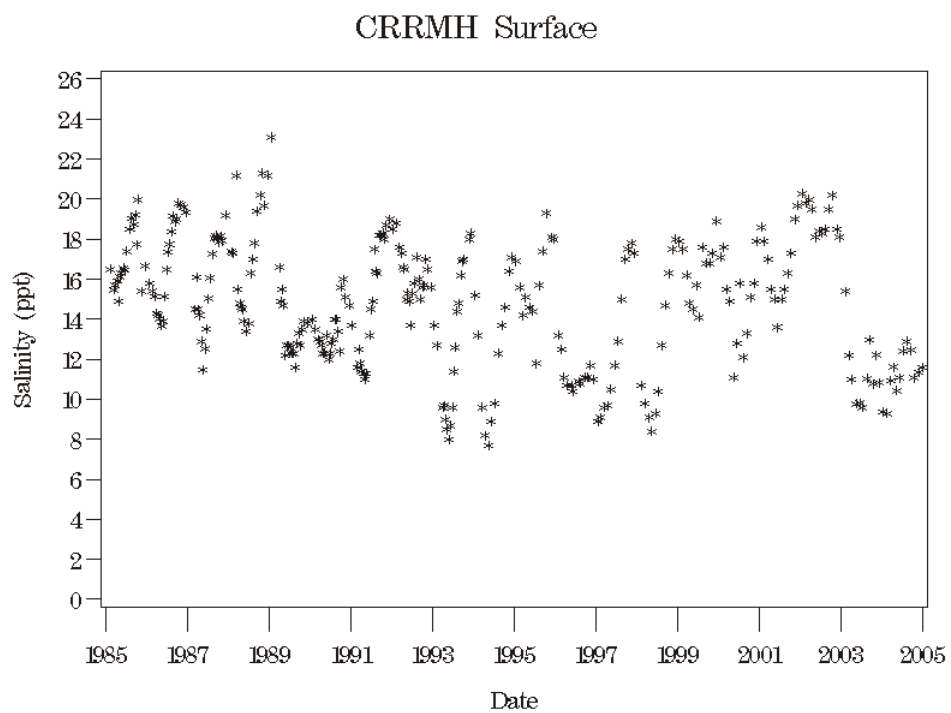
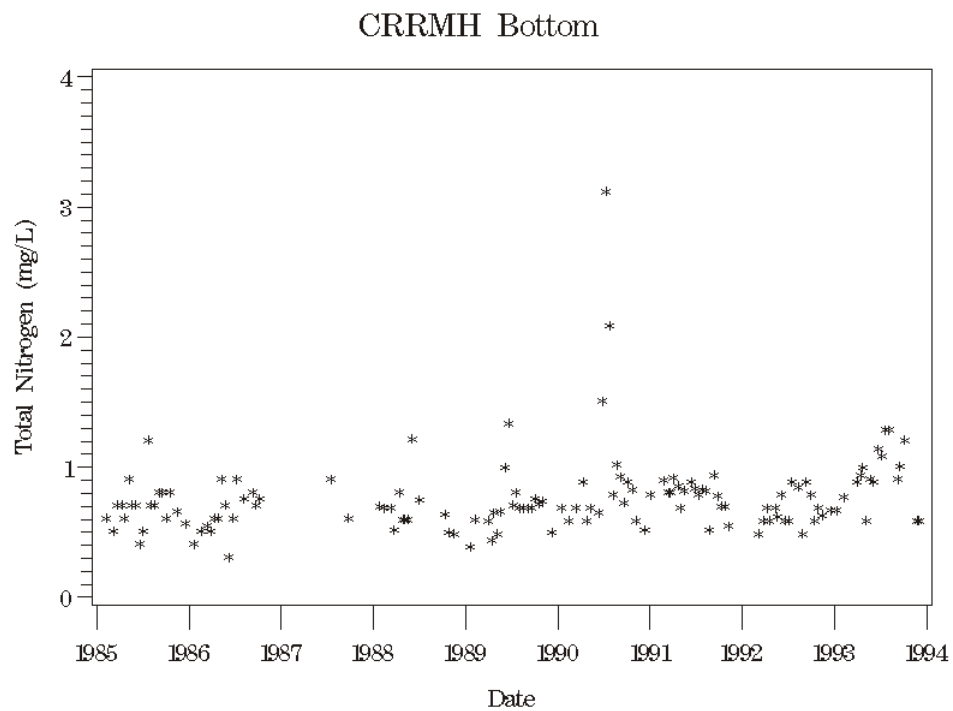


Figure 64. Scatterplot of surface salinity at segment CRRMH during the period 1985 to 2004.

a) Pre-method change period



b) Post-method change period

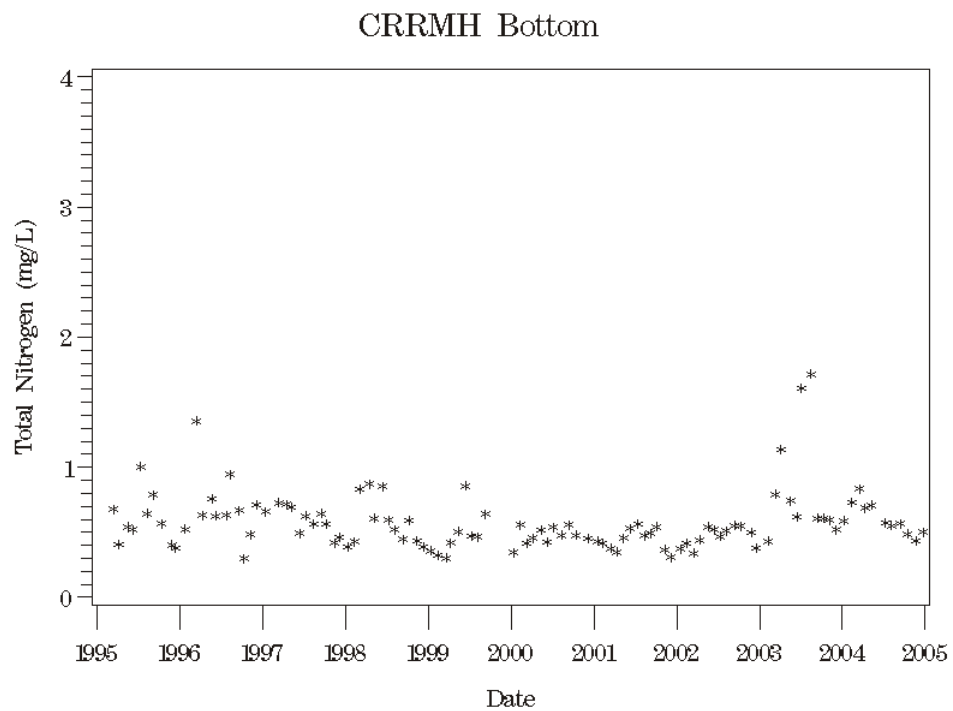
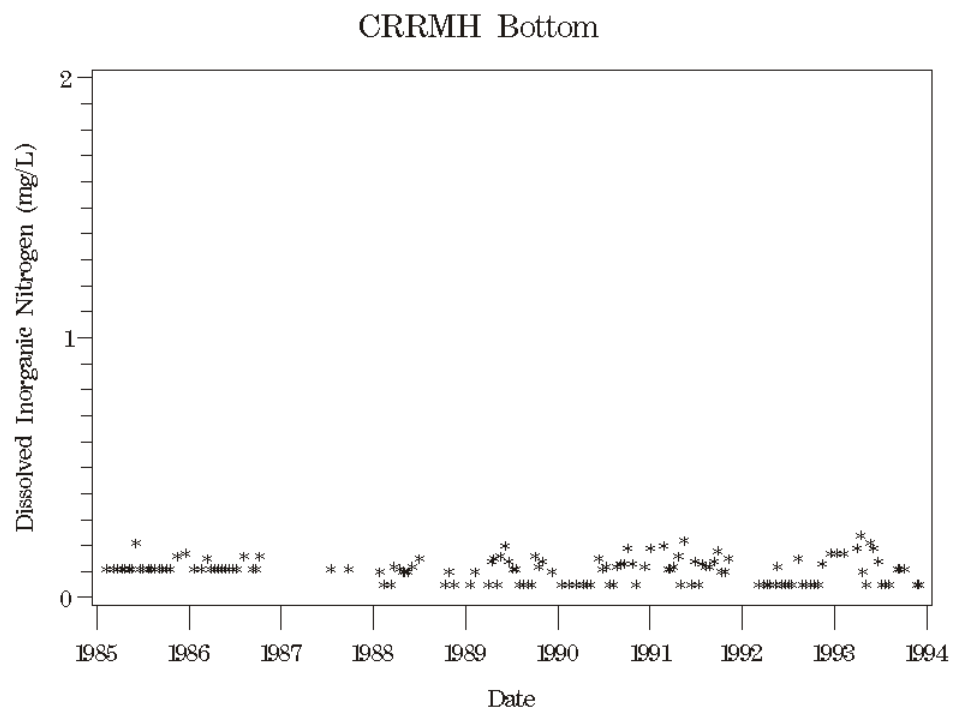


Figure 65. Scatterplots of bottom total nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

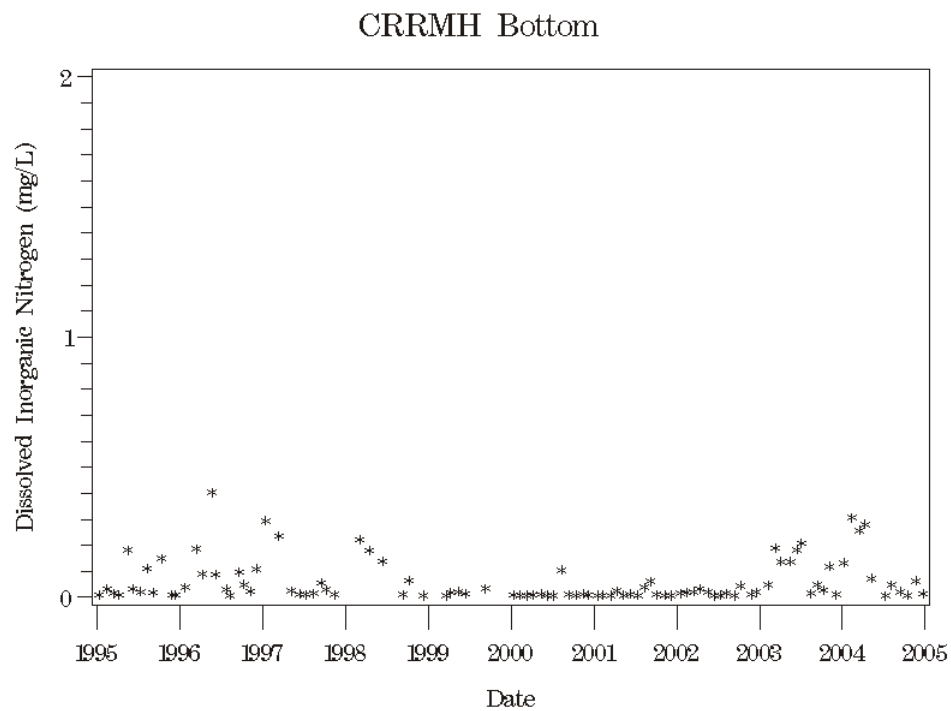
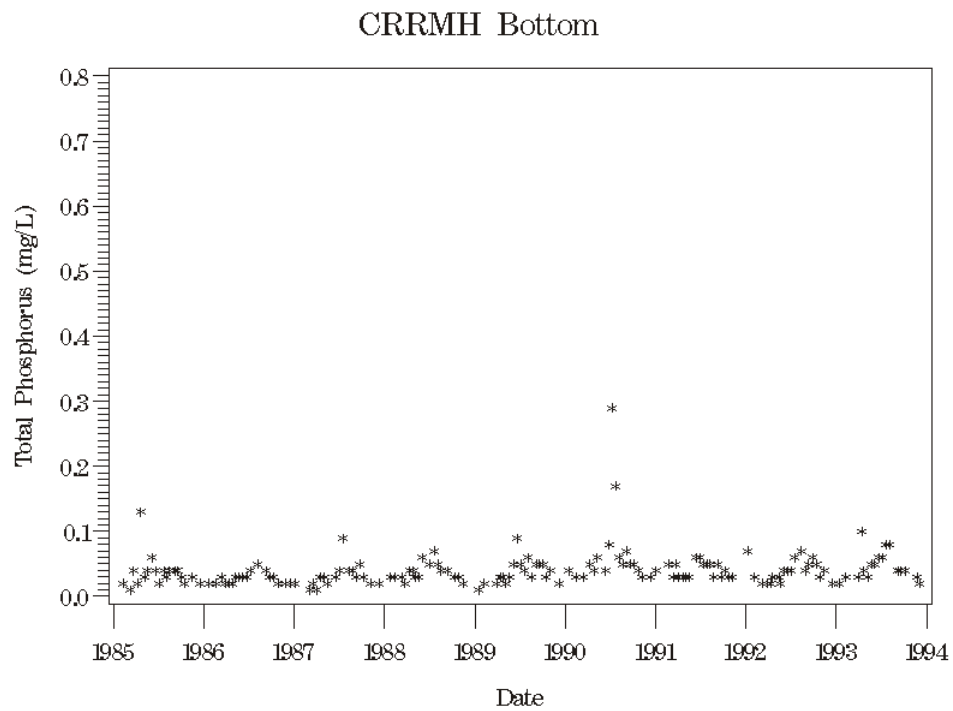


Figure 66. Scatterplots of bottom dissolved inorganic nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

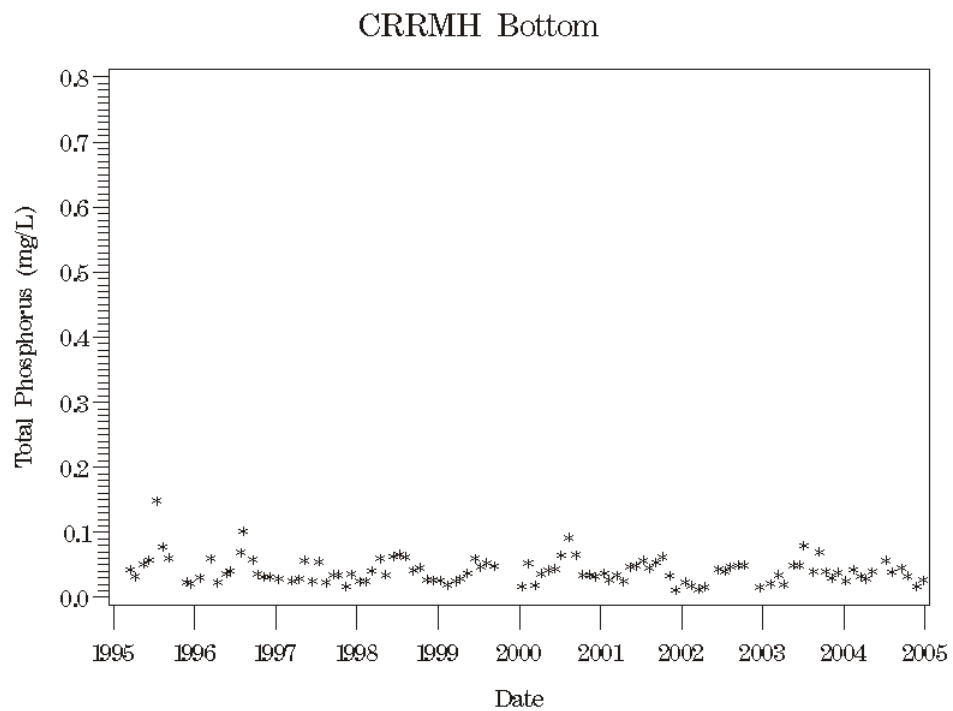
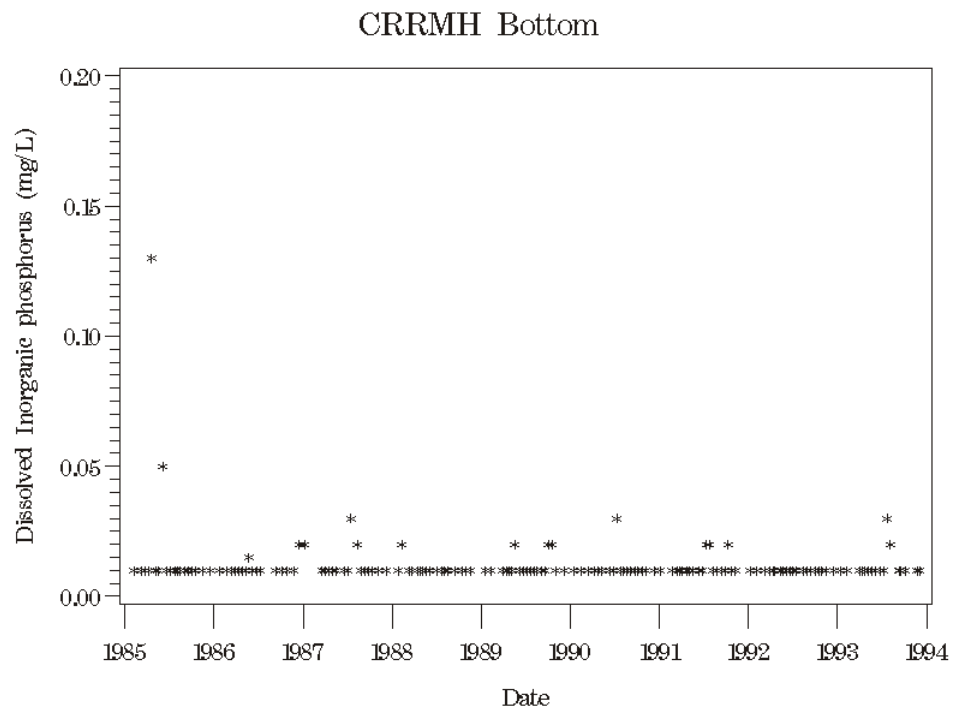


Figure 67. Scatterplots of bottom total phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

a) Pre-method change period



b) Post-method change period

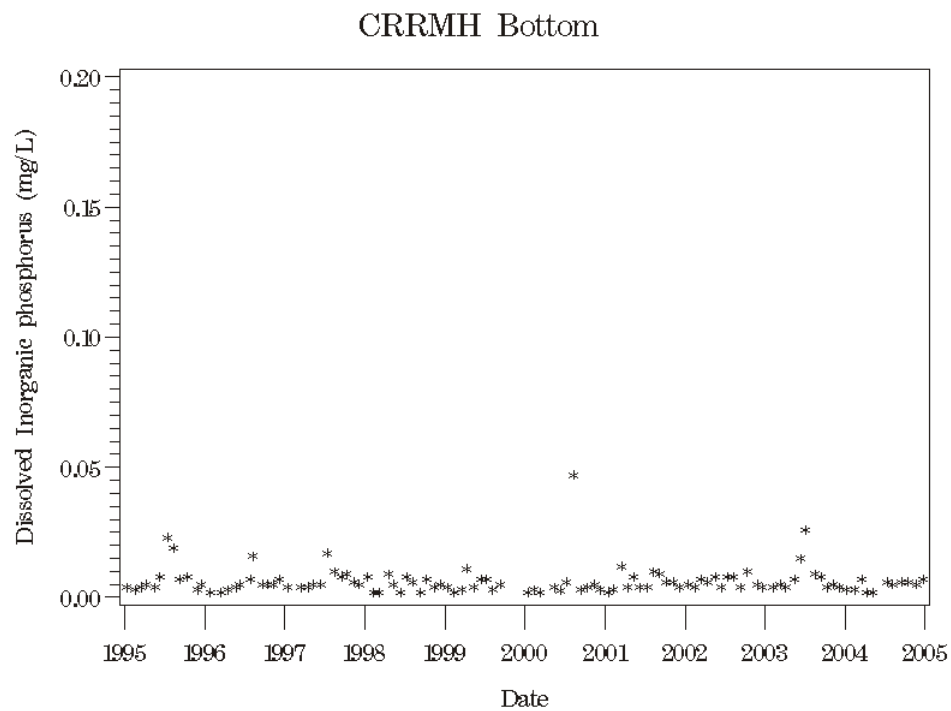


Figure 68. Scatterplots of bottom dissolved inorganic phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2004) periods.

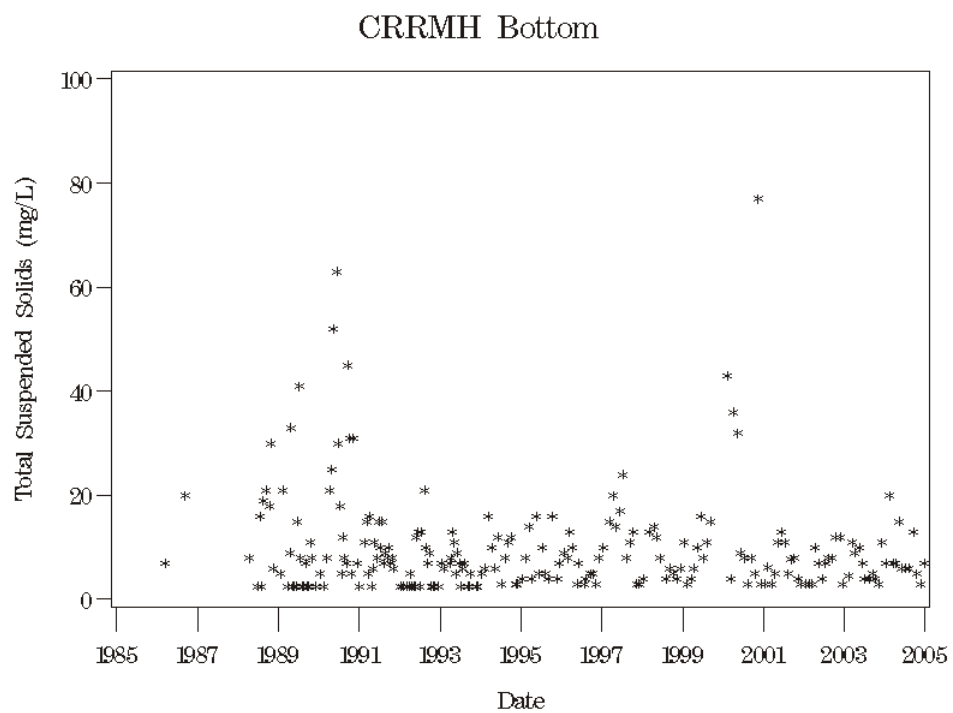


Figure 69. Scatterplot of bottom total suspended solids at segment CRRMH during the period 1985 to 2004.

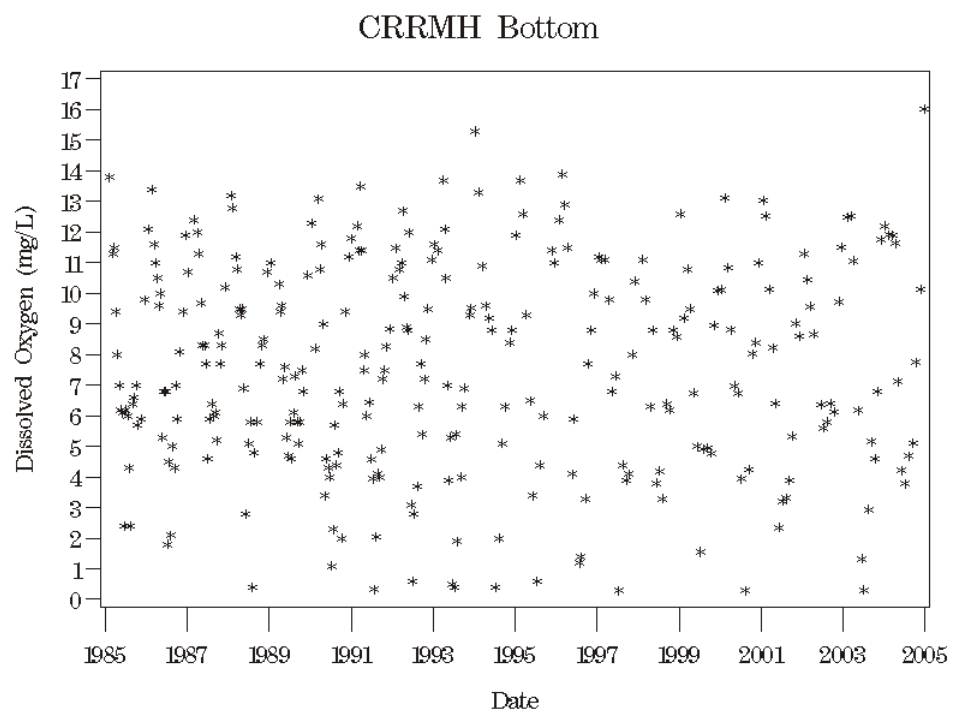


Figure 70. Scatterplot of bottom dissolved oxygen at segment CRRMH during the period 1985 to 2004.

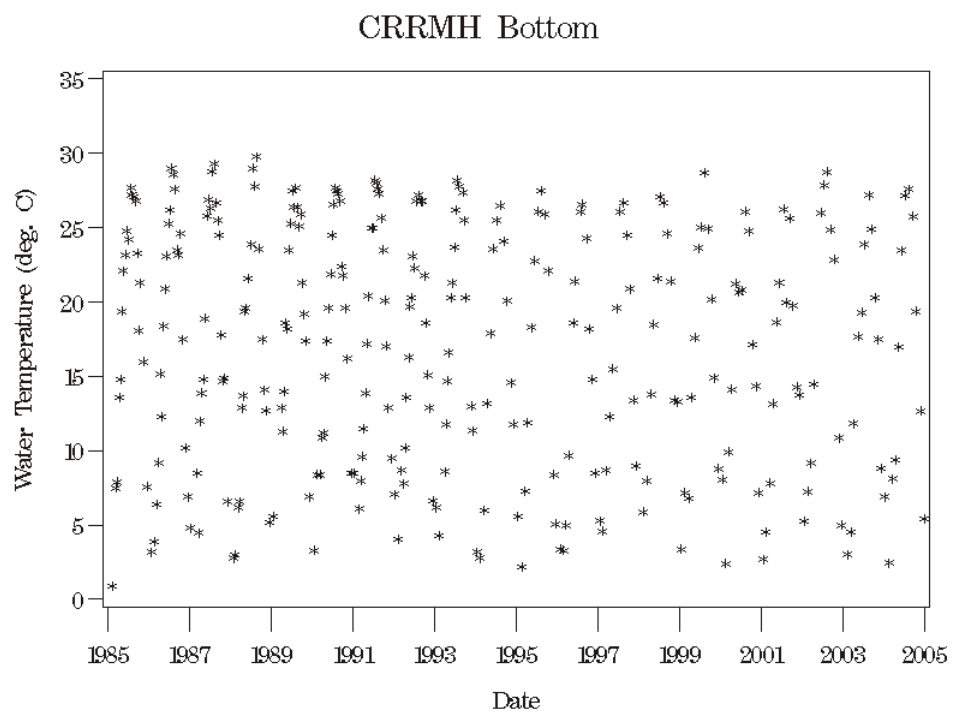


Figure 71. Scatterplot of bottom water temperature at segment CRRMH during the period 1985 to 2004.

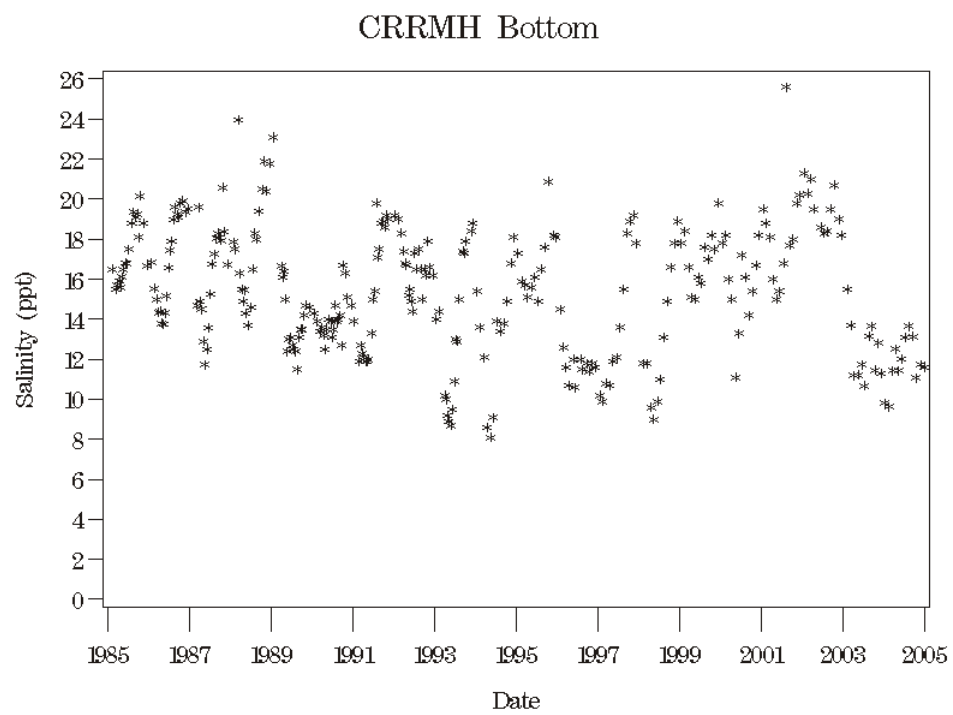


Figure 72. Scatterplot of bottom salinity at segment CRRMH during the period 1985 to 2004.