

Appendix B - Section III. Rappahannock River Water Quality Scatterplots

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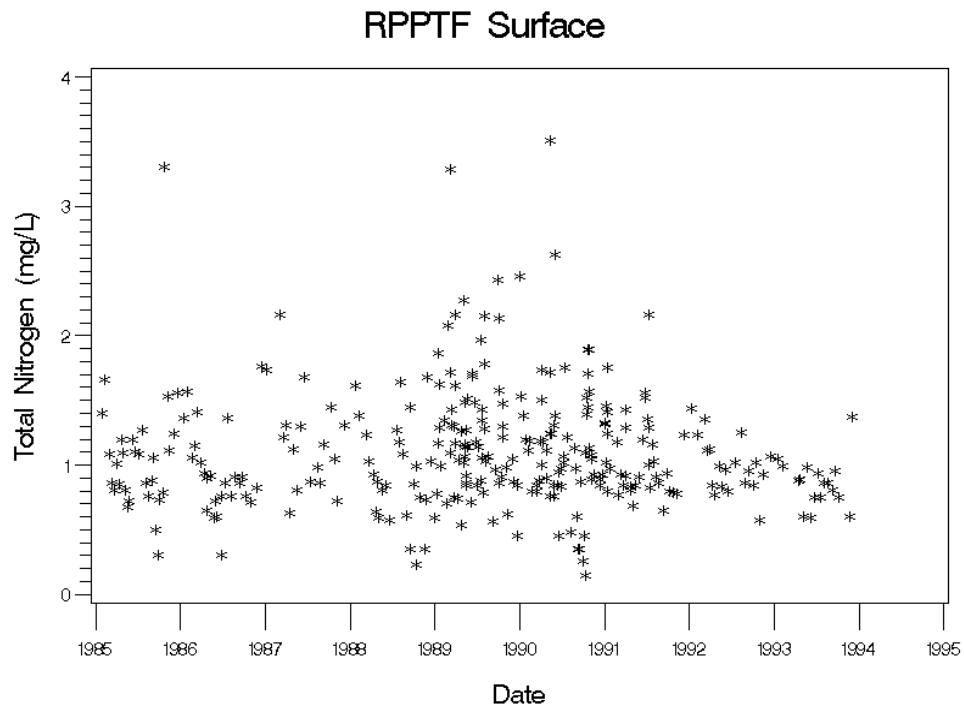
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a) Pre-method change period



b) Post-method change period

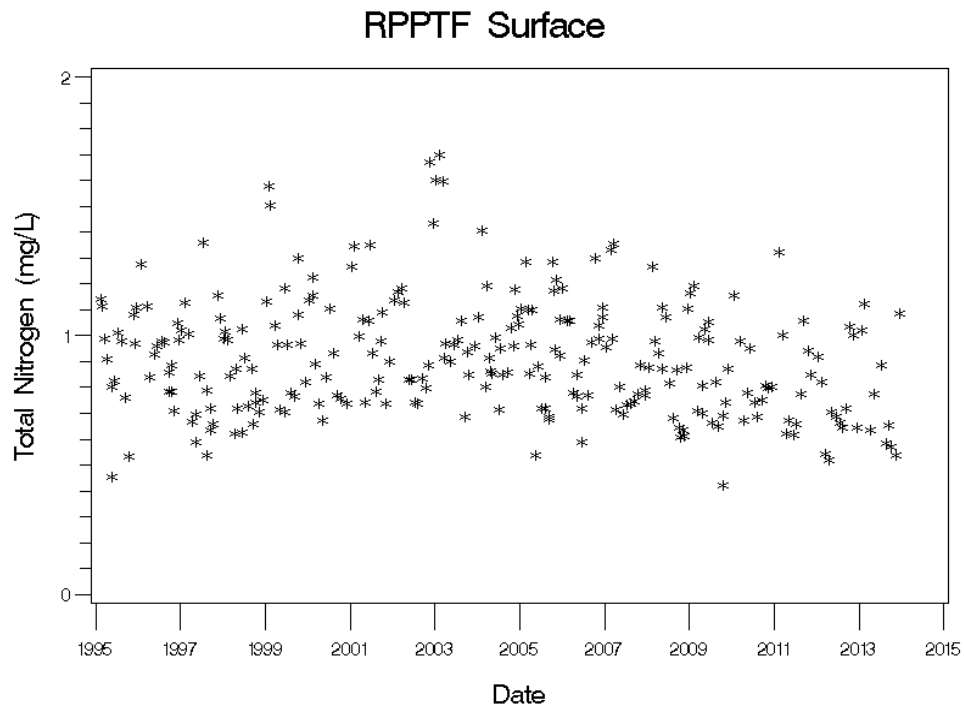
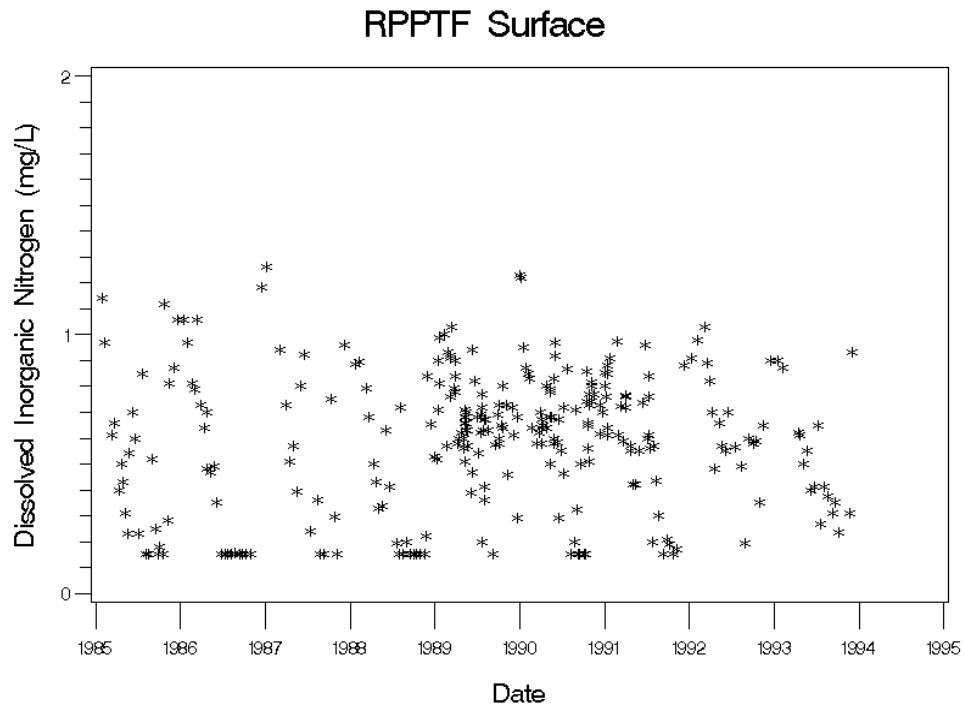


Figure 1. Scatterplots of surface total nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

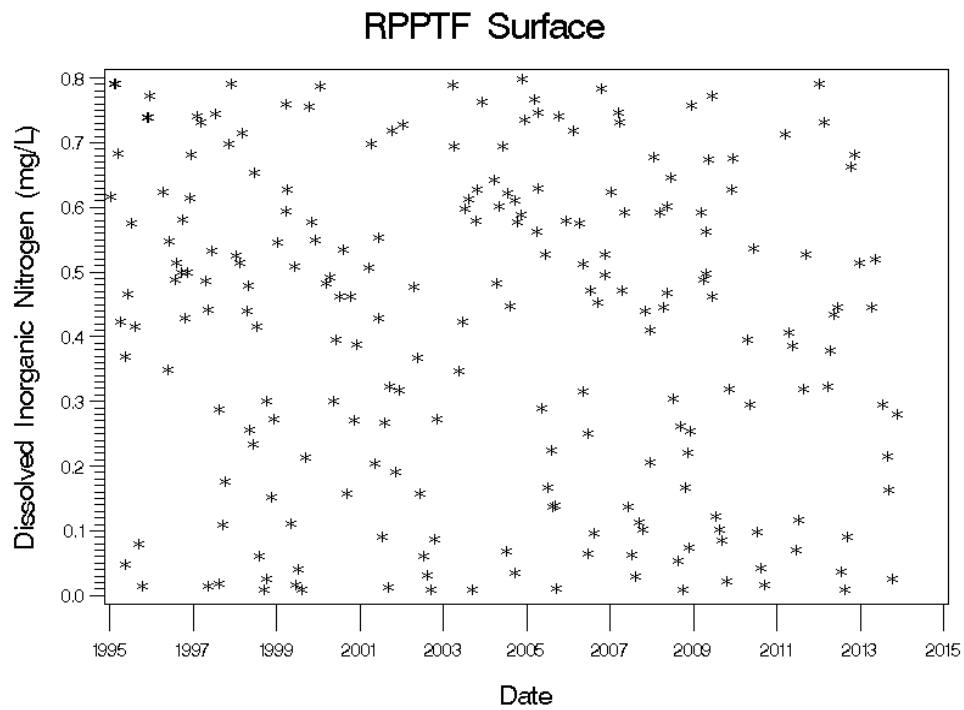
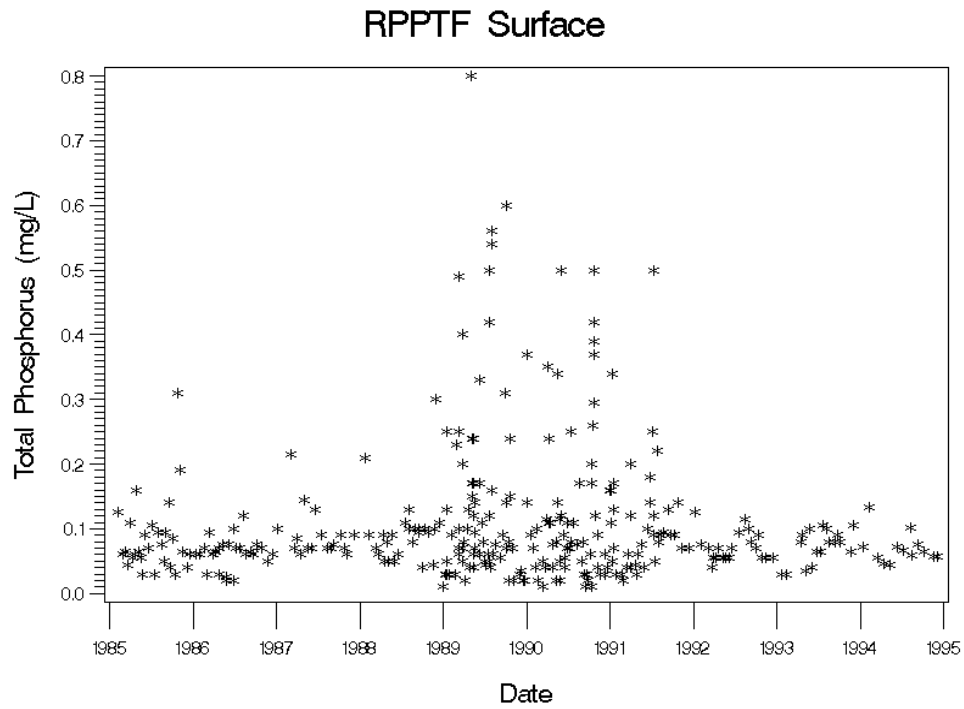


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a) Pre-method change period



b) Post-method change period

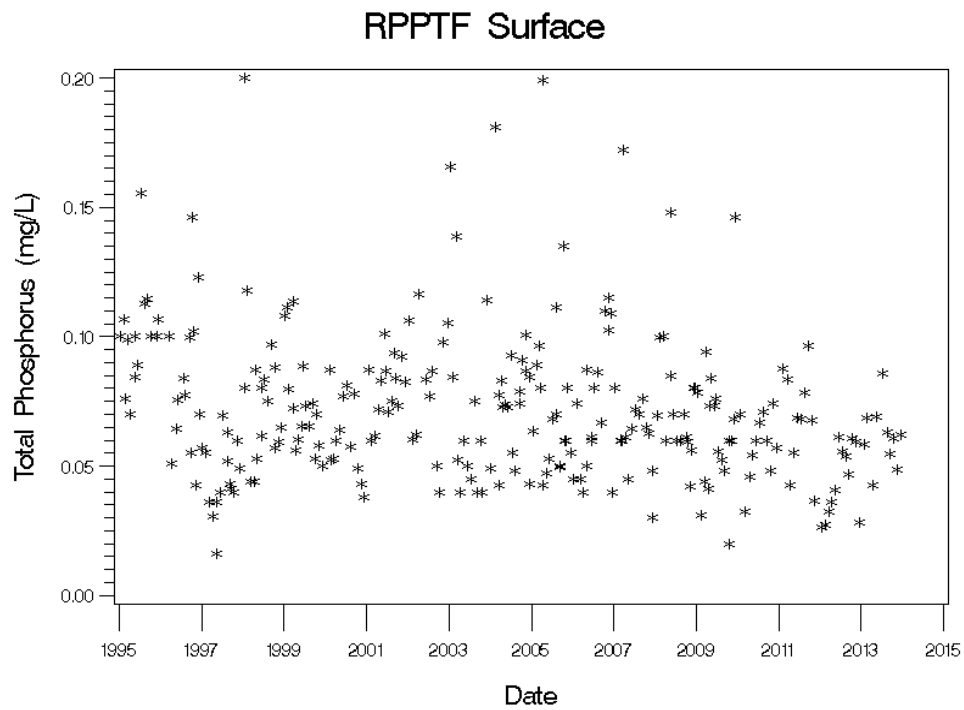
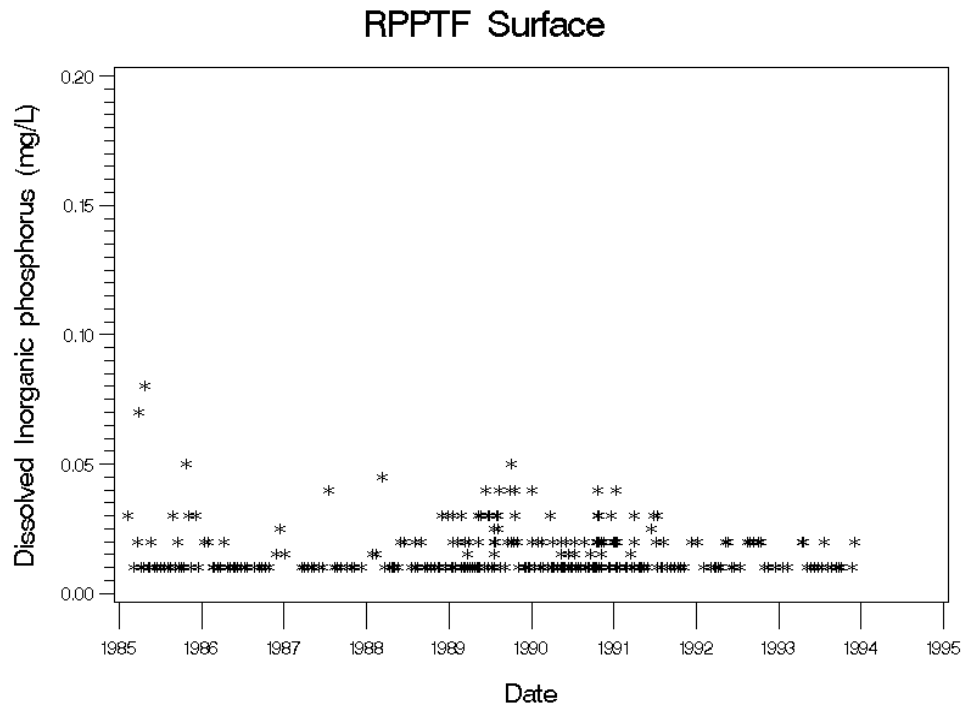


Figure 3. Scatterplots of surface total phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

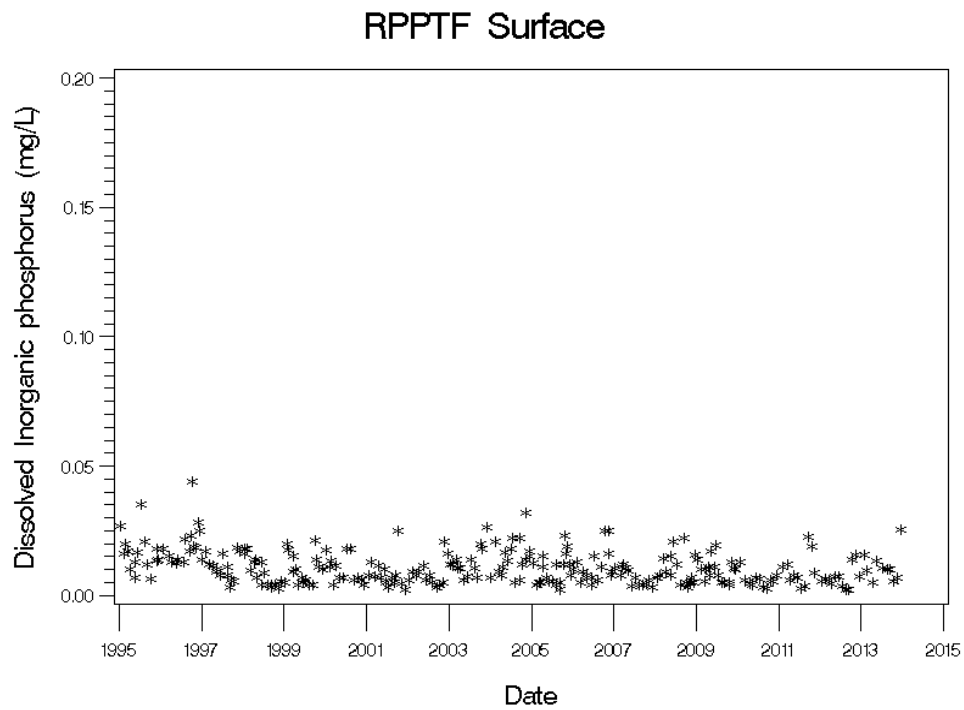


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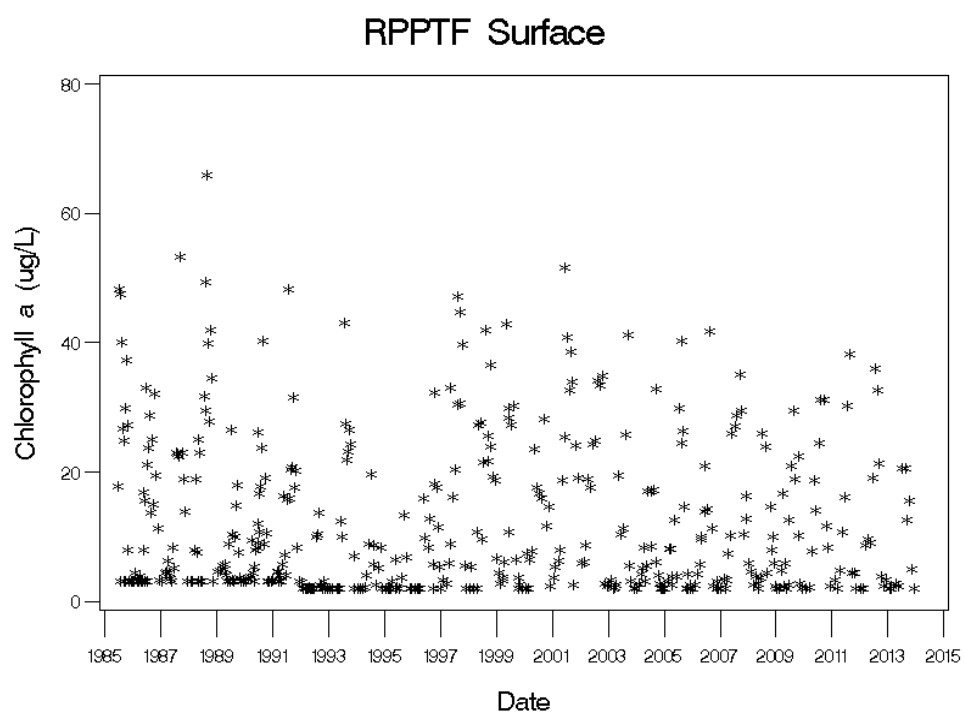


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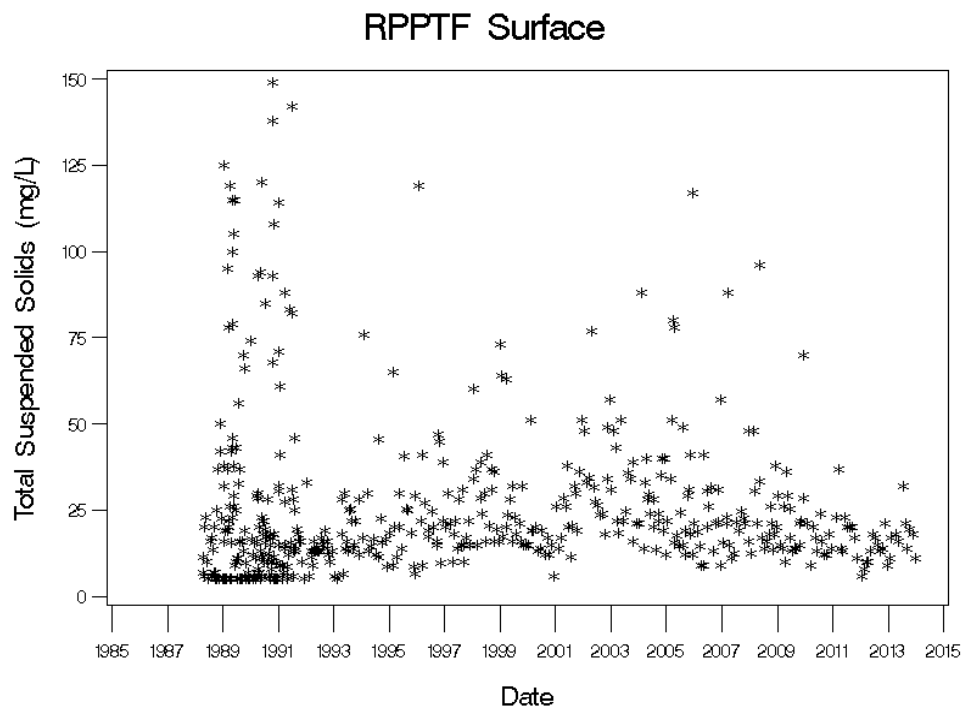


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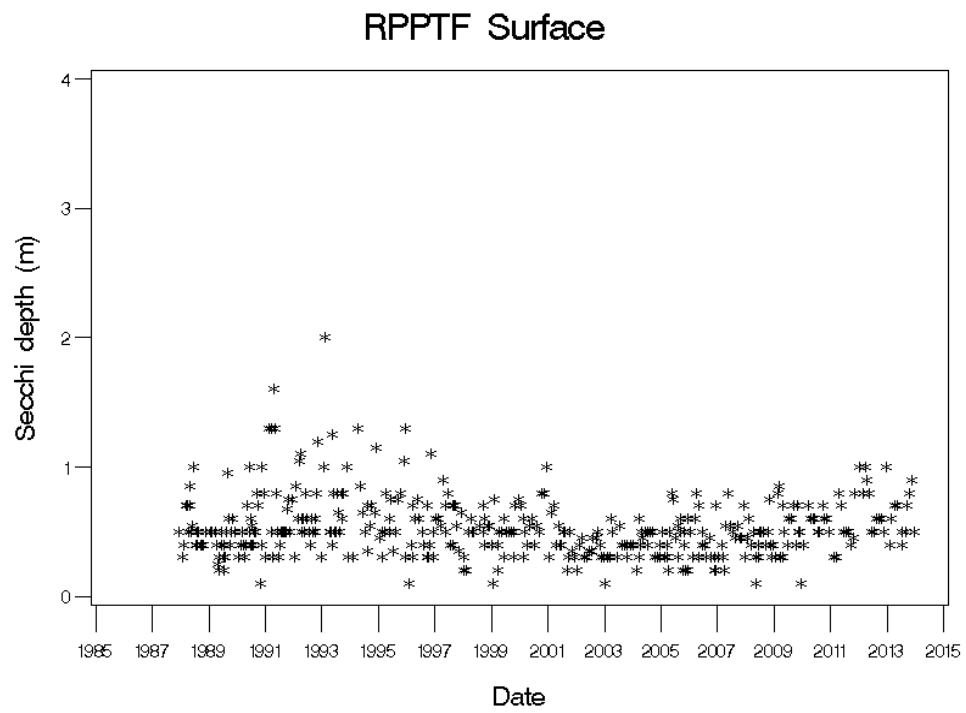


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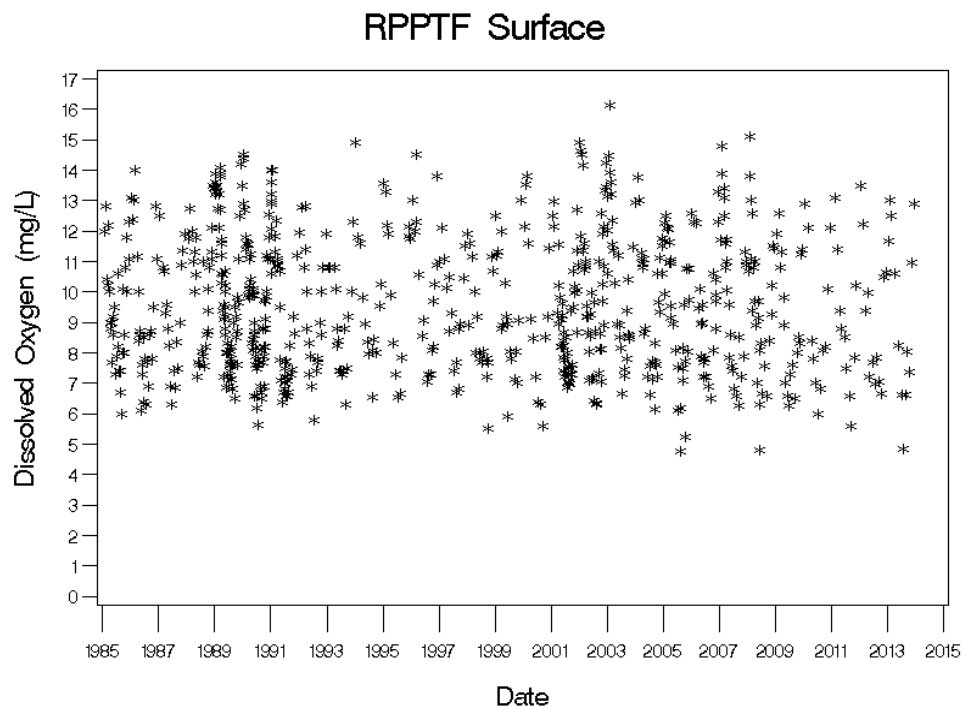


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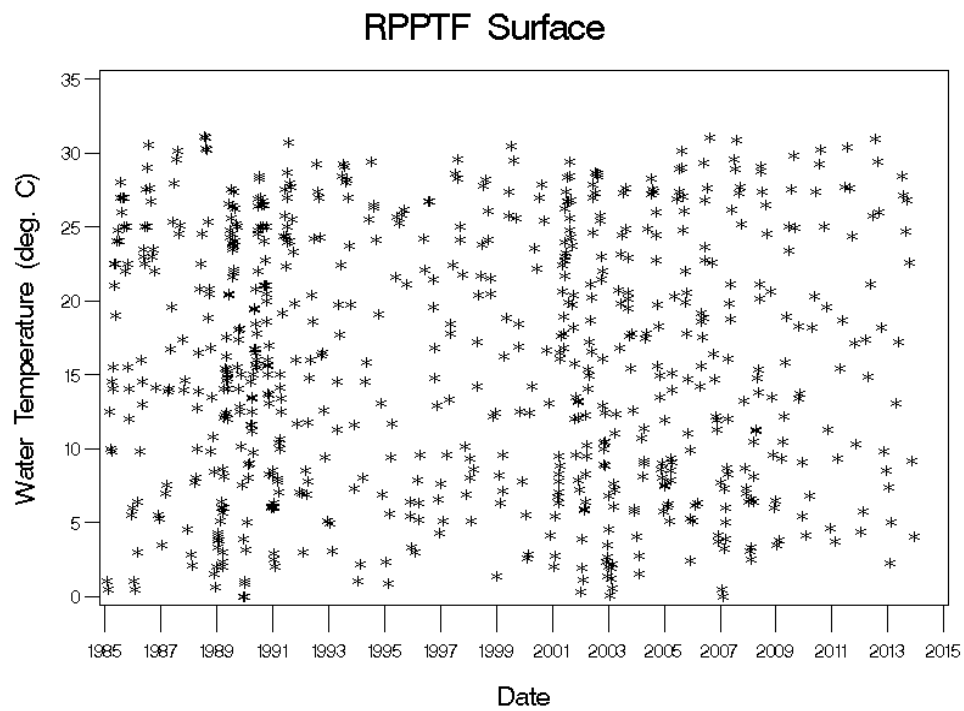


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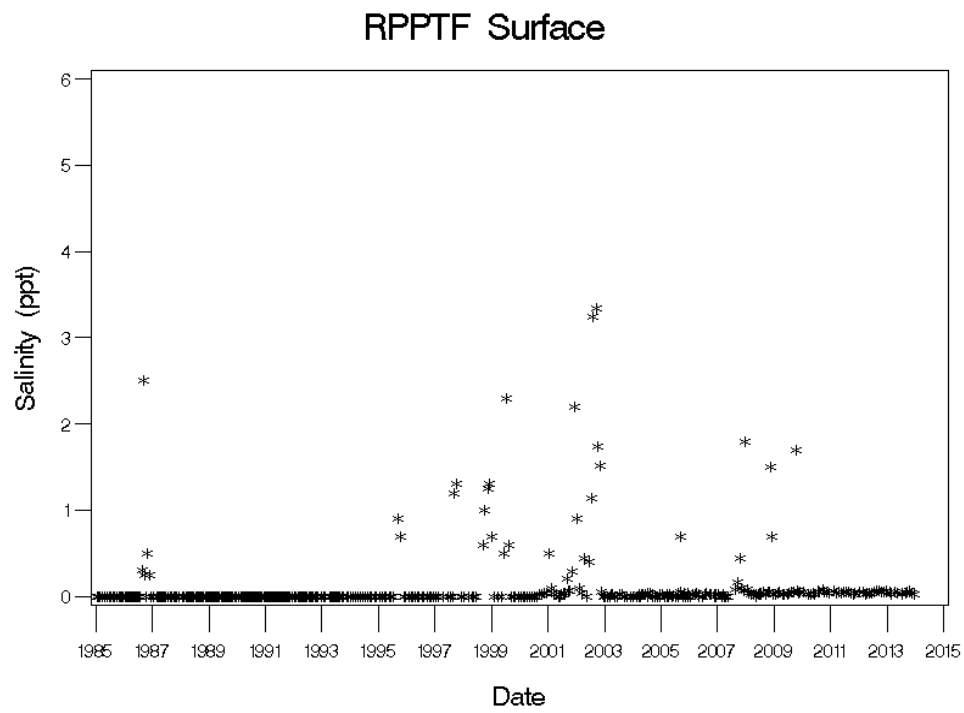


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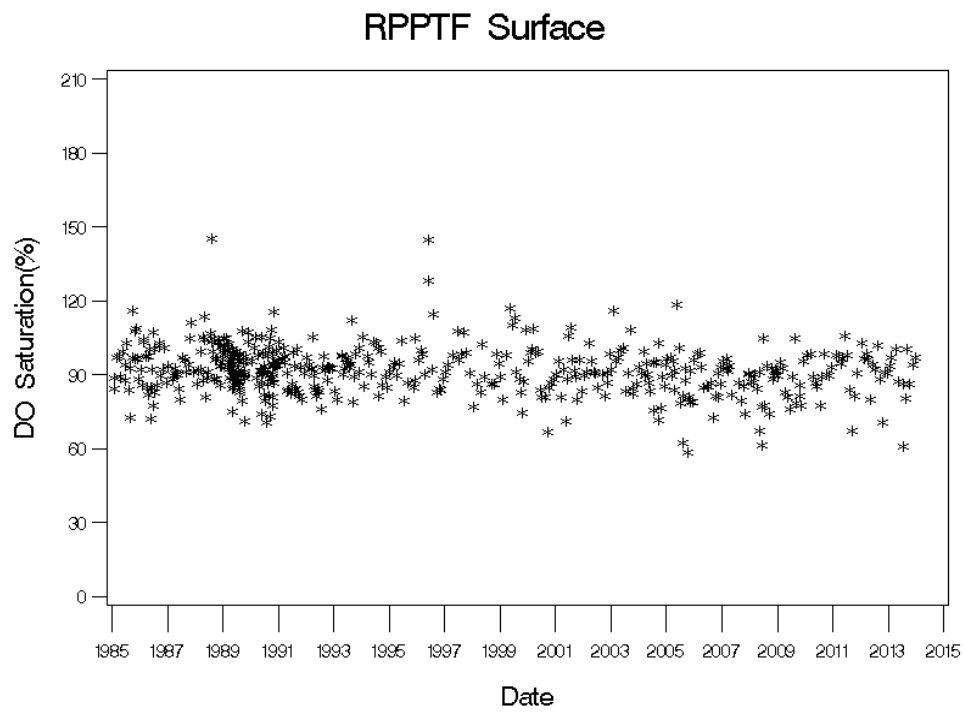
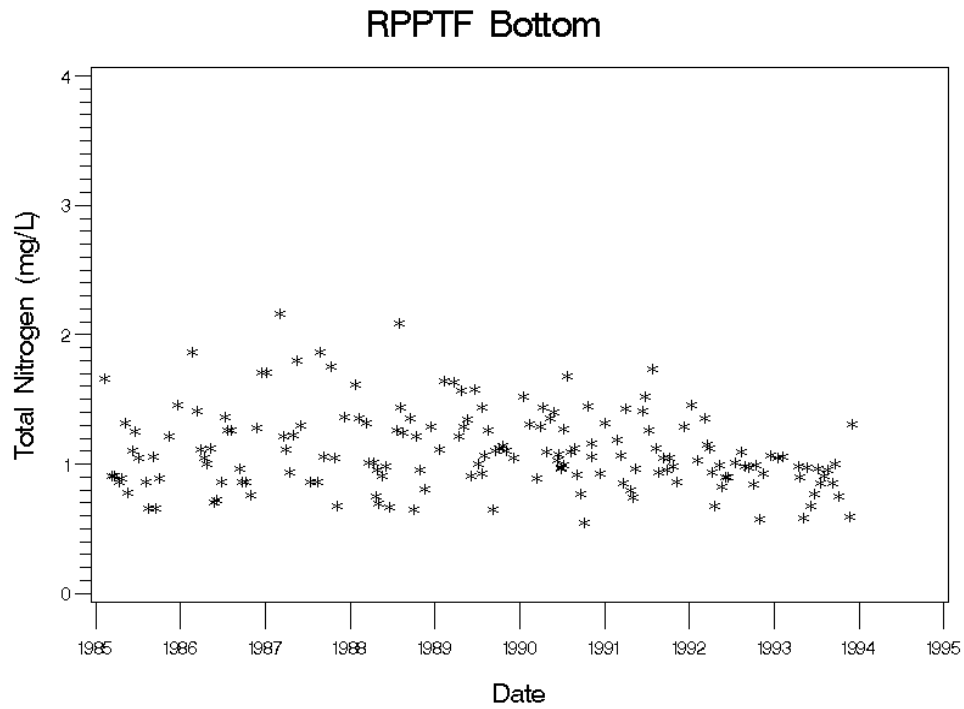


Figure 11. Scatterplot of surface DO saturation at segment RPPTF during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

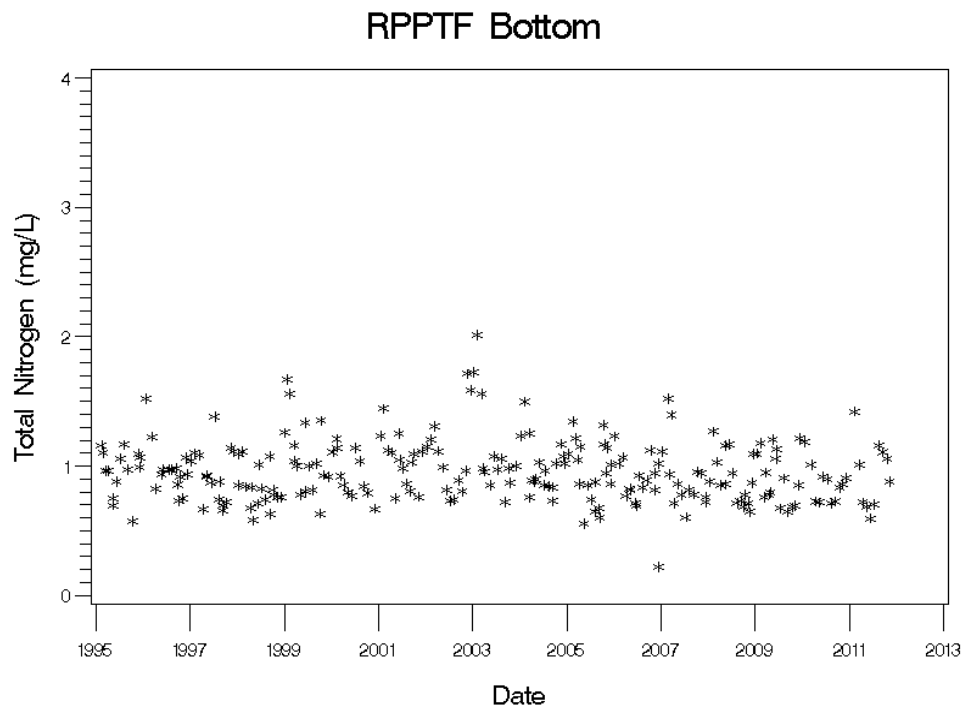
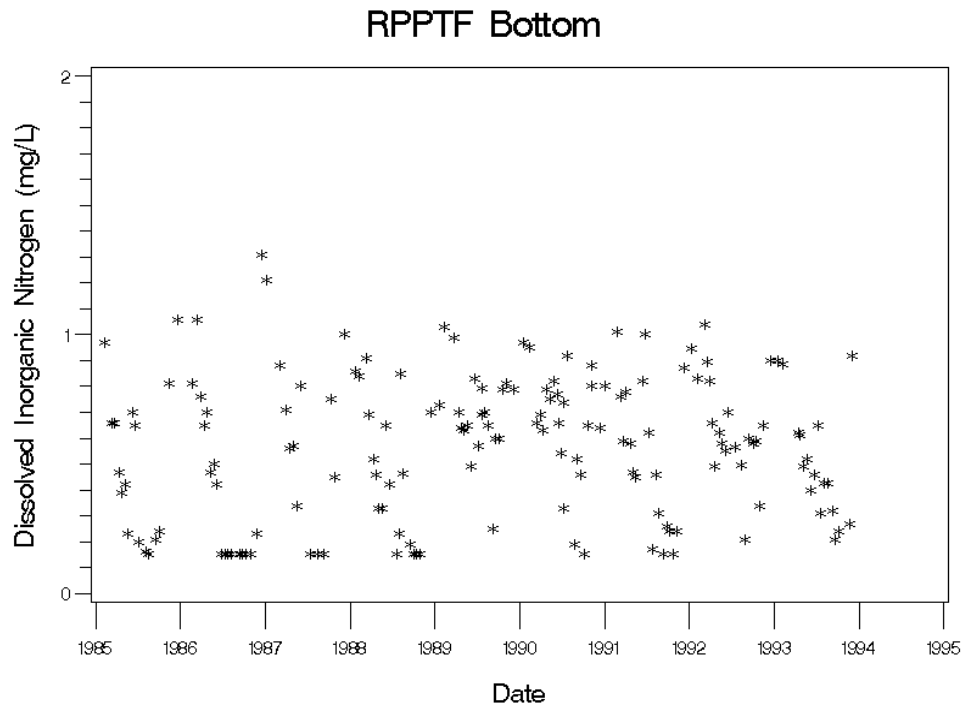


Figure 12. Scatterplots of bottom total nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

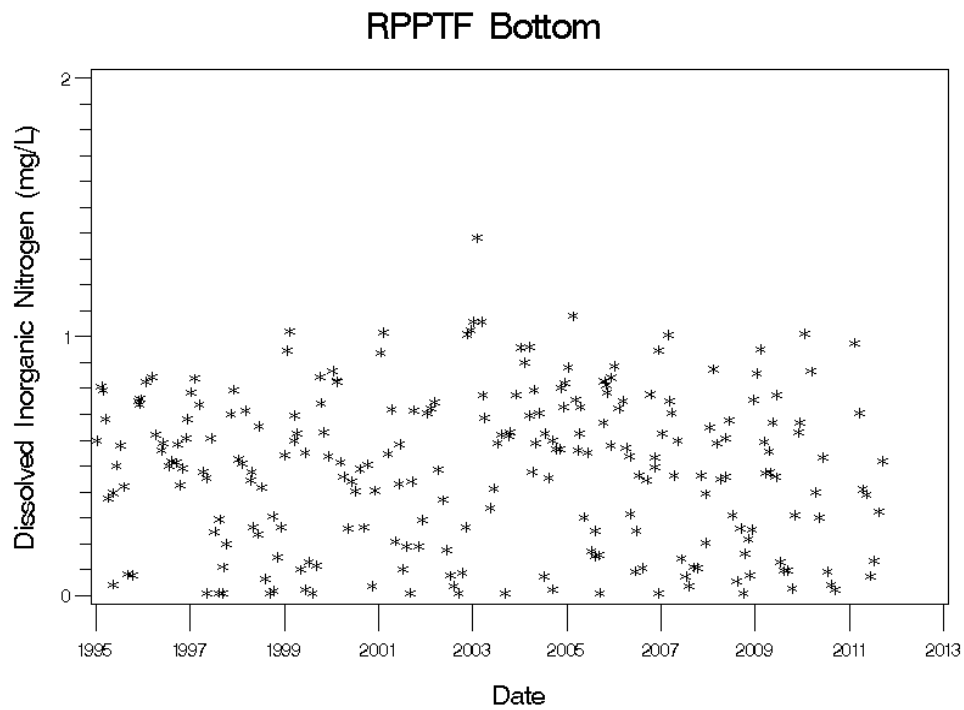
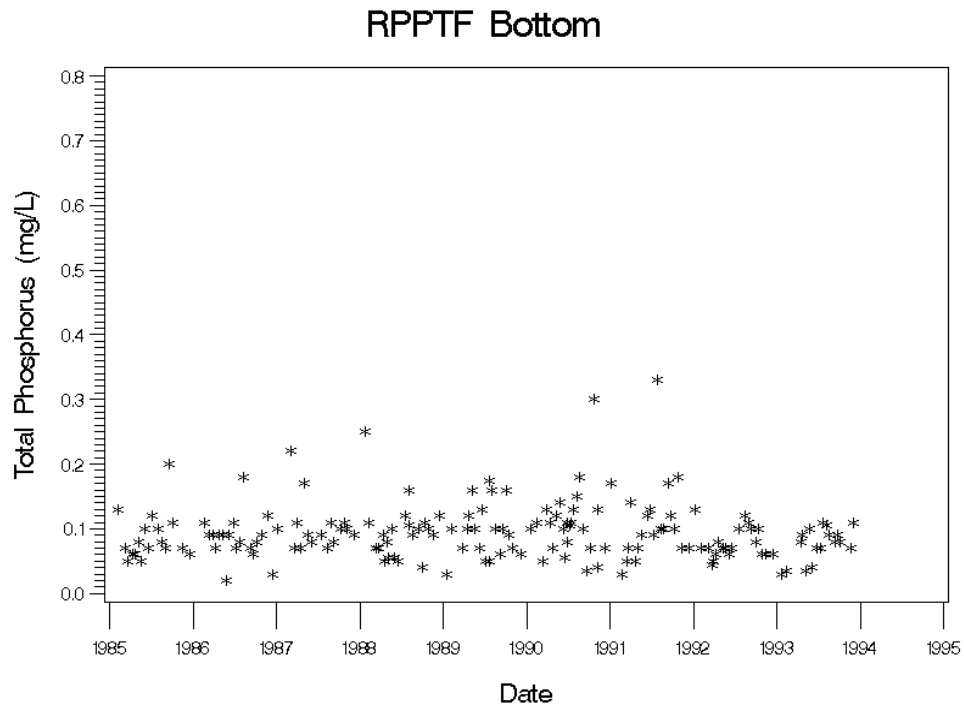


Figure 13. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

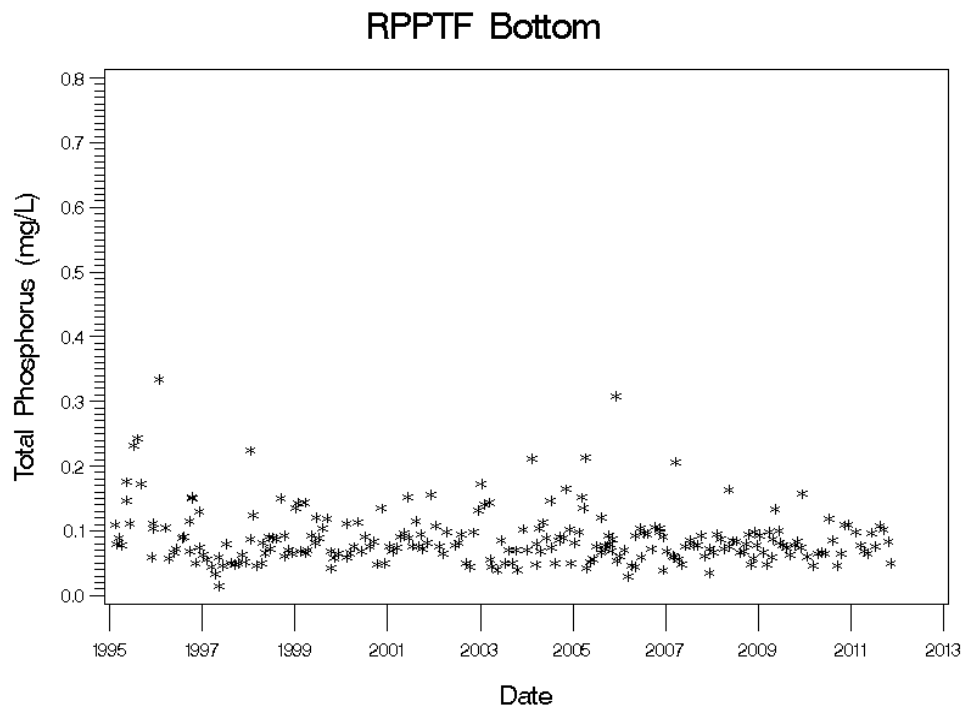
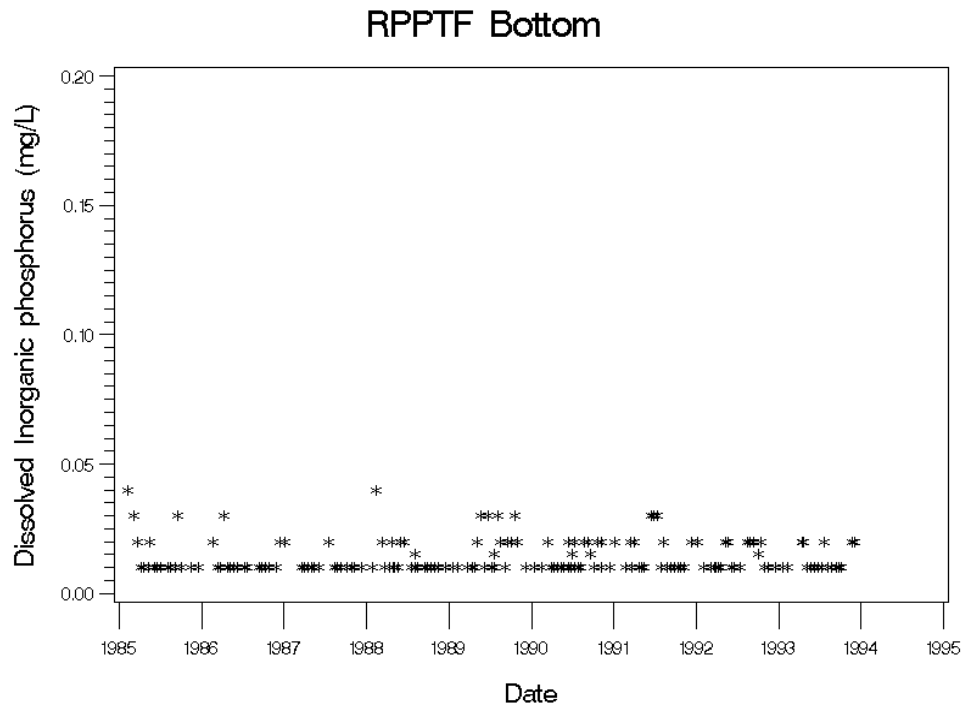


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a) Pre-method change period



b) Post-method change period

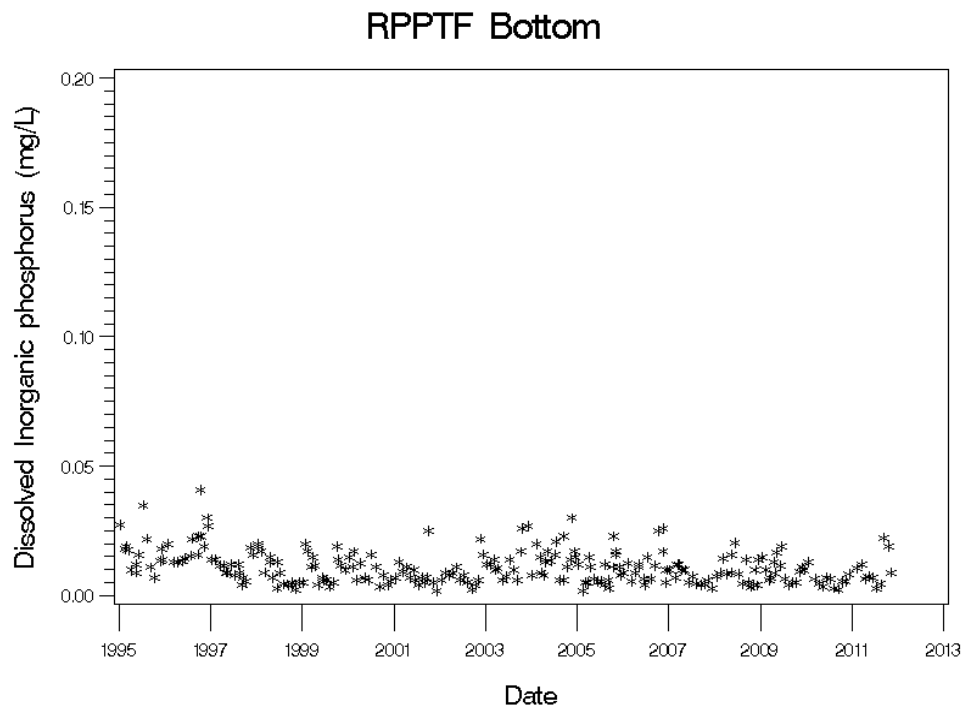


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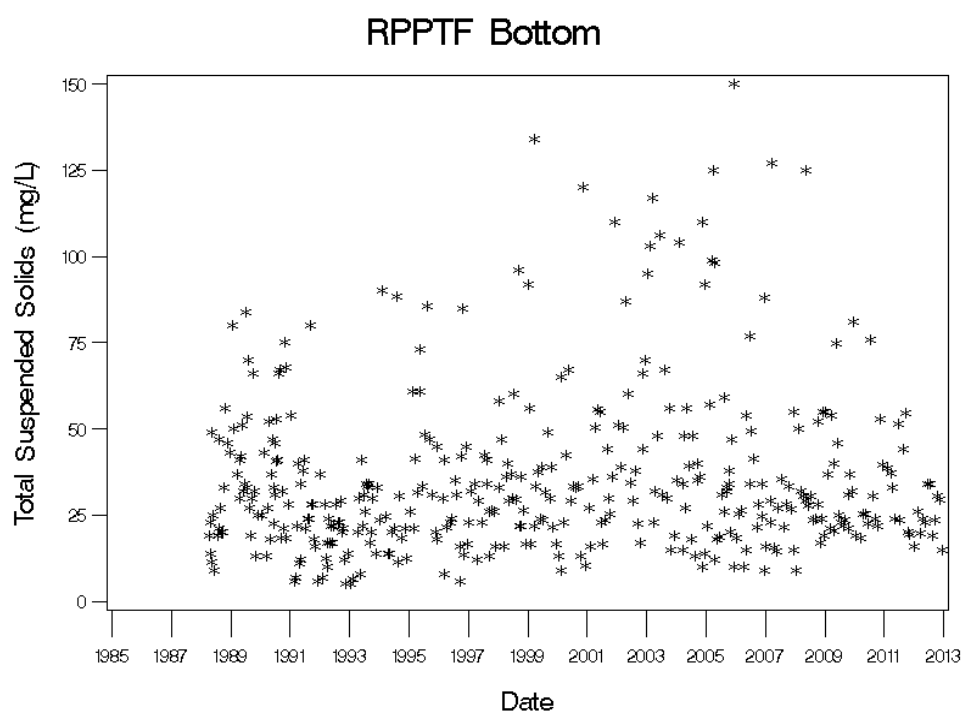


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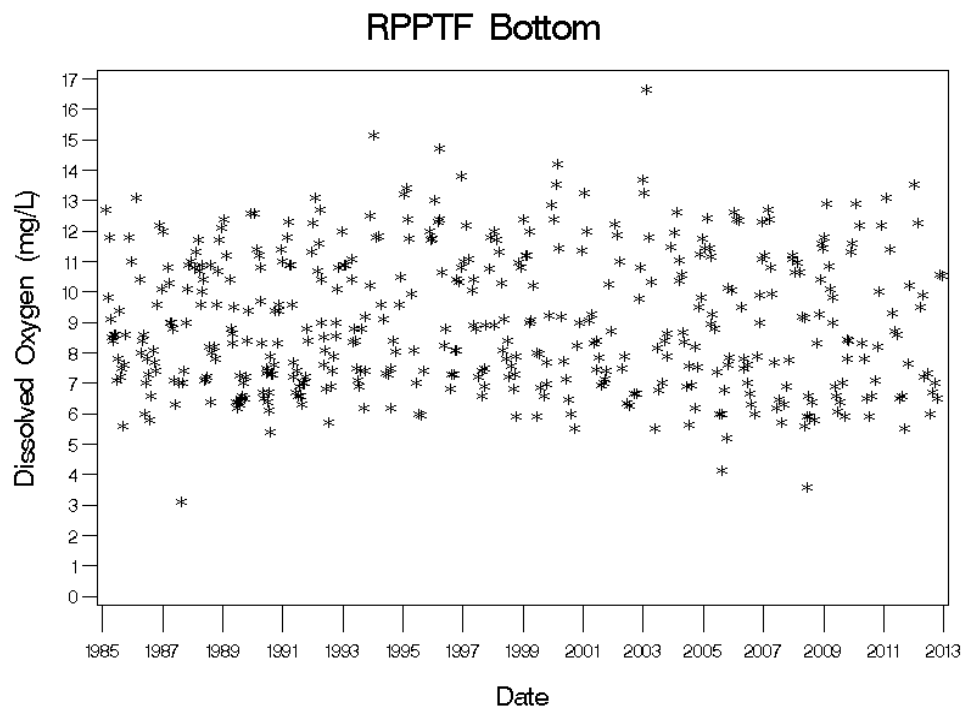


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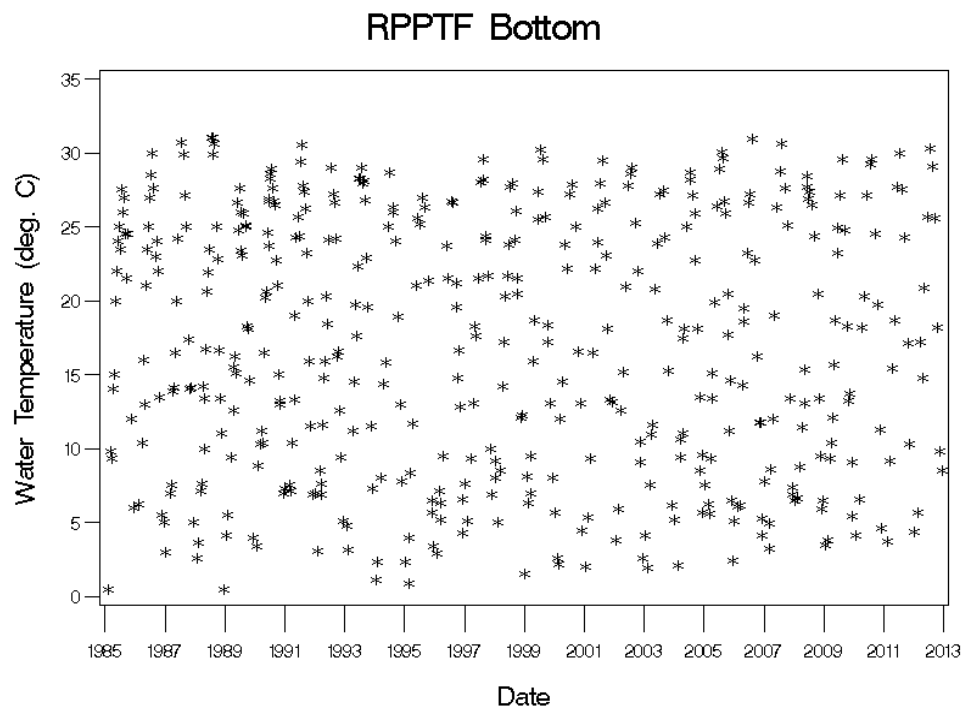


Figure 18. Scatterplot of bottom water temperature at segment RPPTF during the period 1985 to 2013.

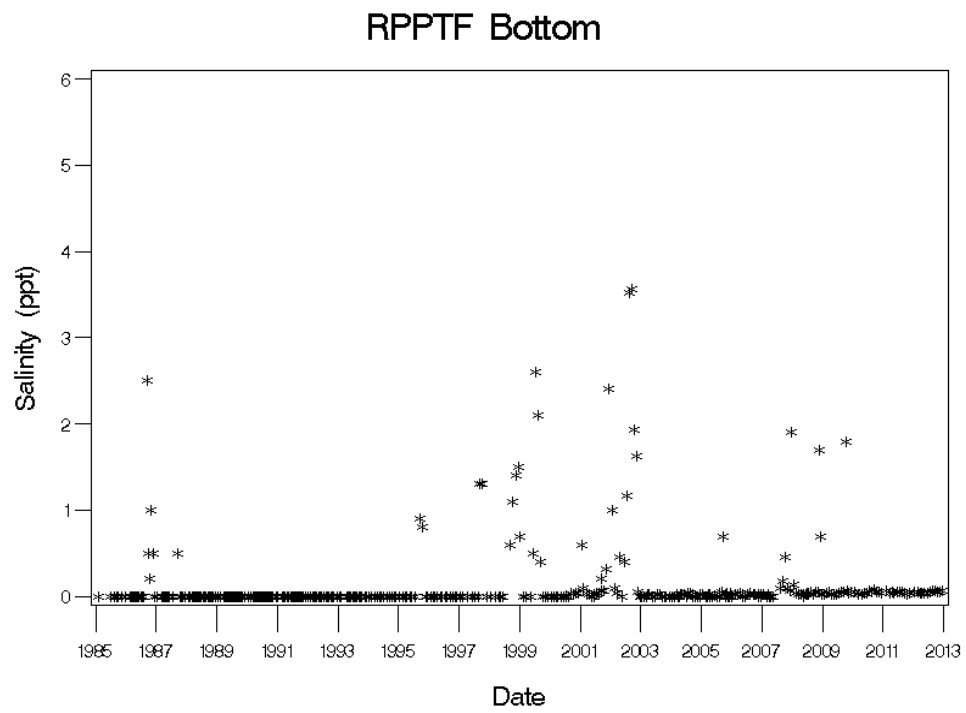


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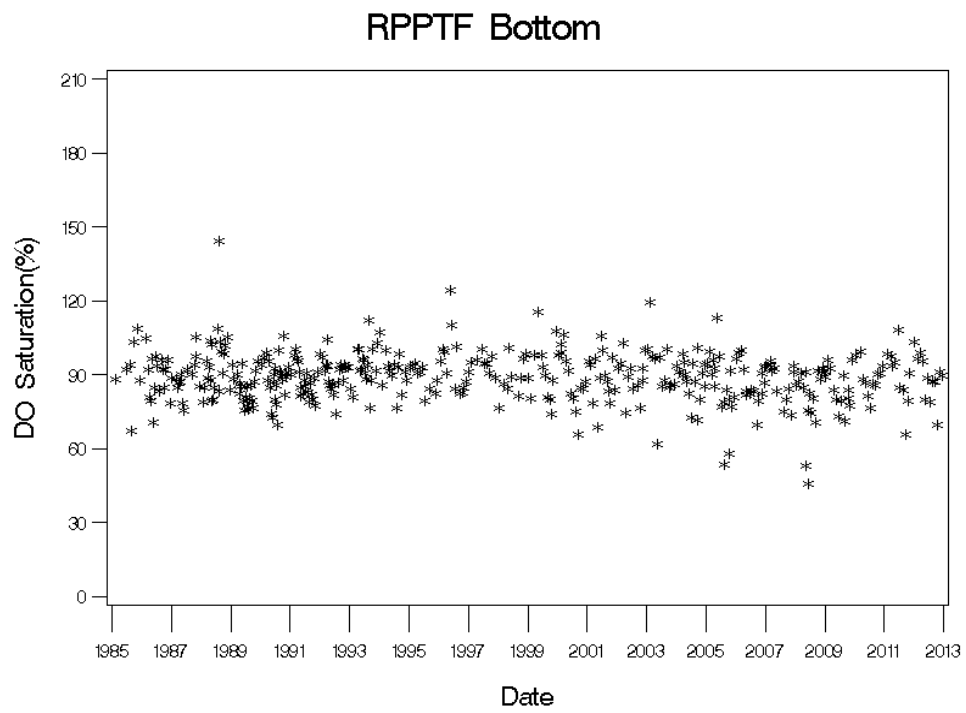
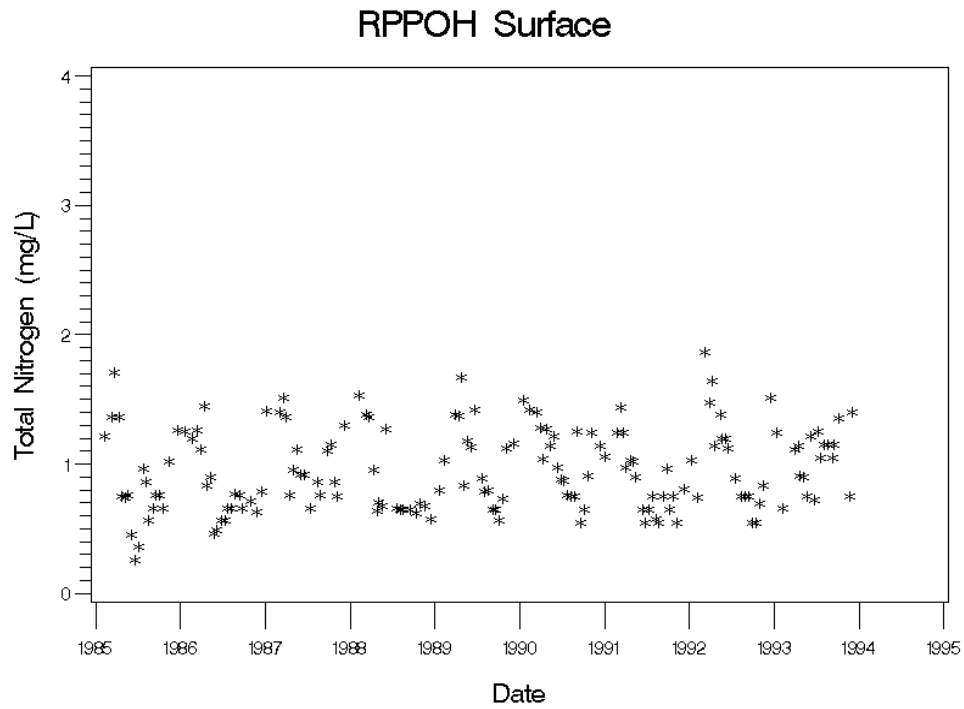


Figure 20. Scatterplot of bottom DO saturation at segment RPPTF during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

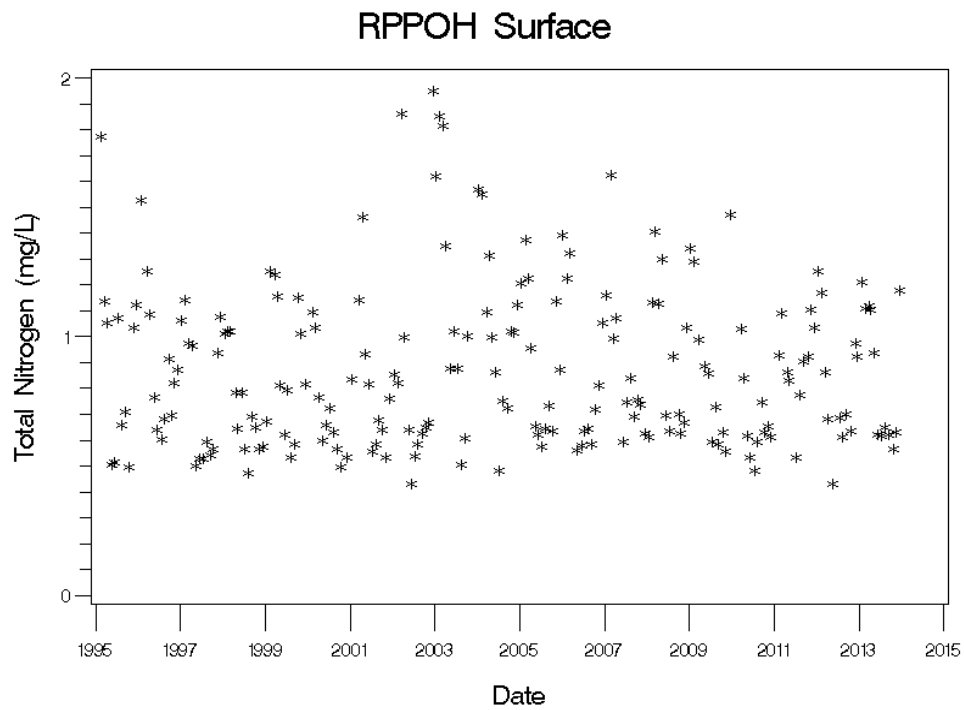
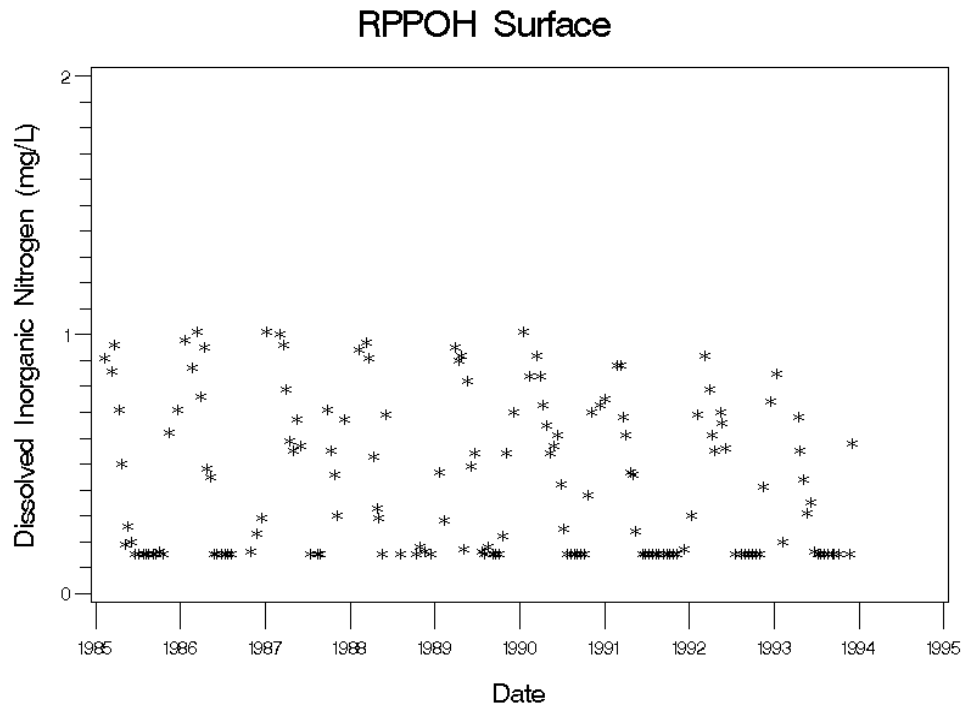


Figure 21. Scatterplots of surface total nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

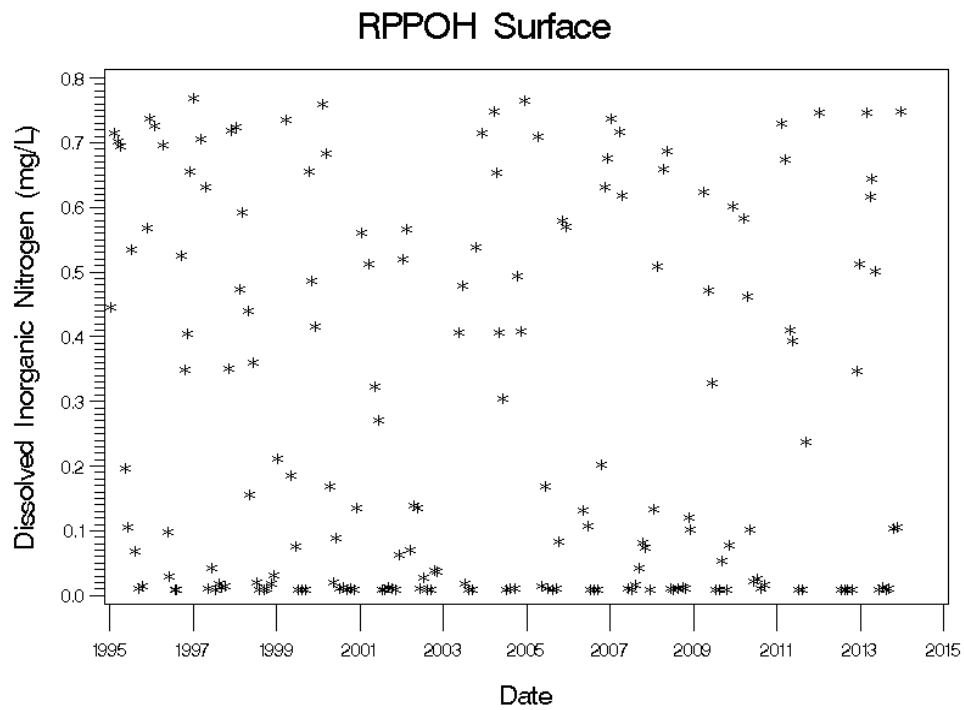
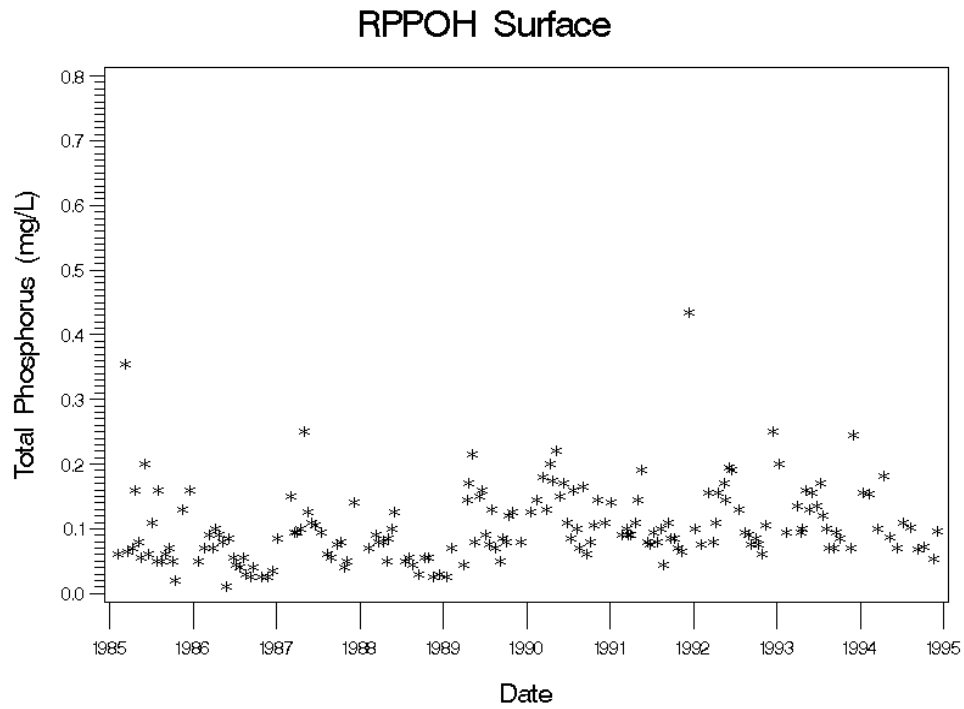


Figure 22. Scatterplots of surface dissolved inorganic nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

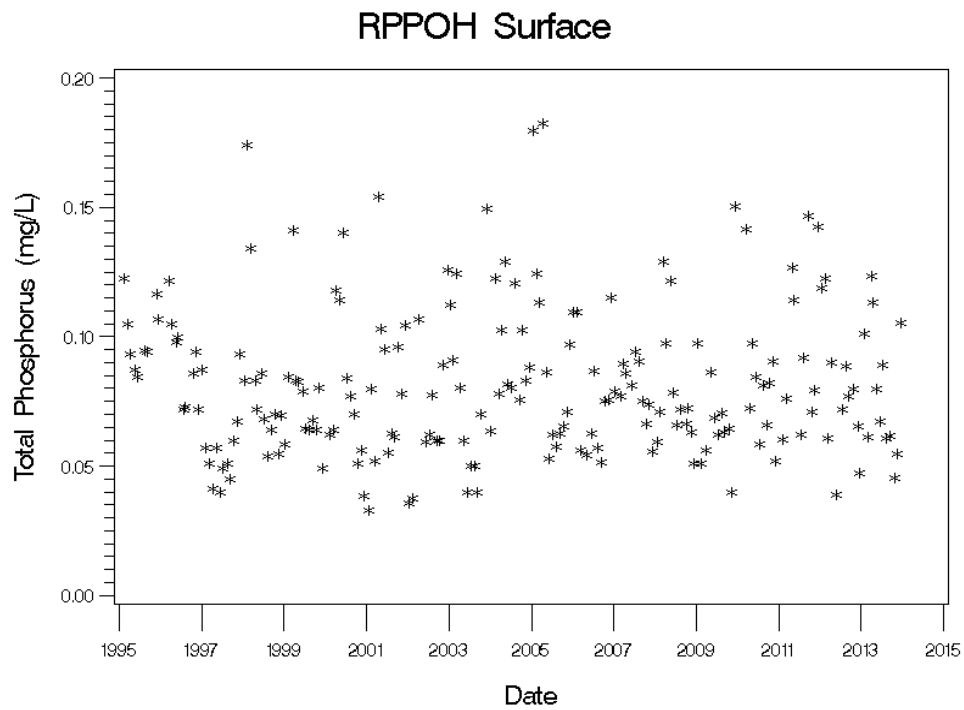
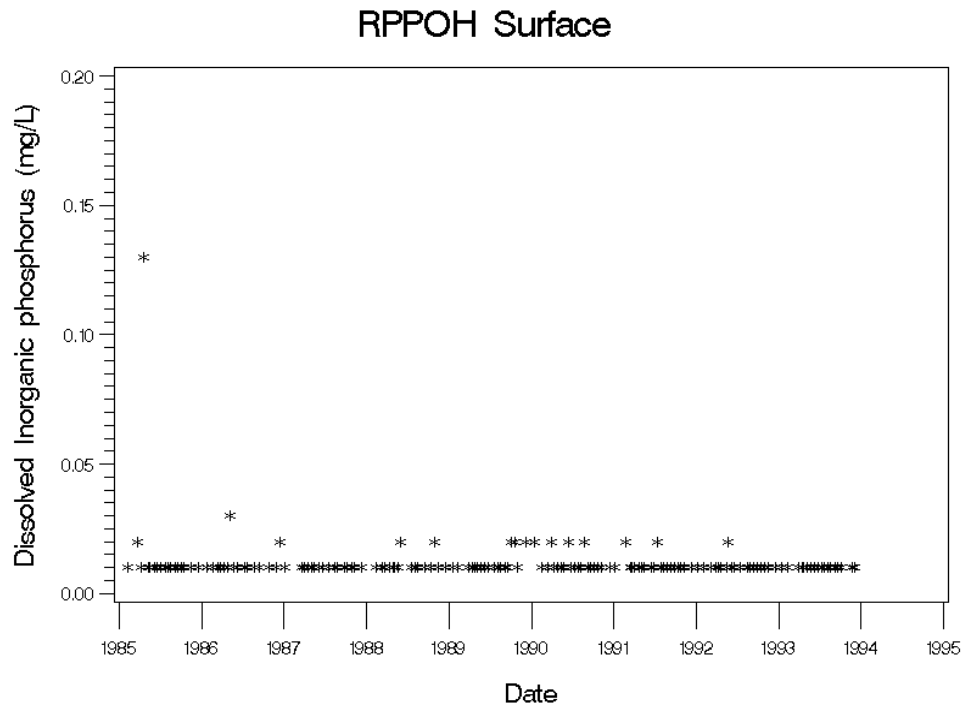


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a) Pre-method change period



b) Post-method change period

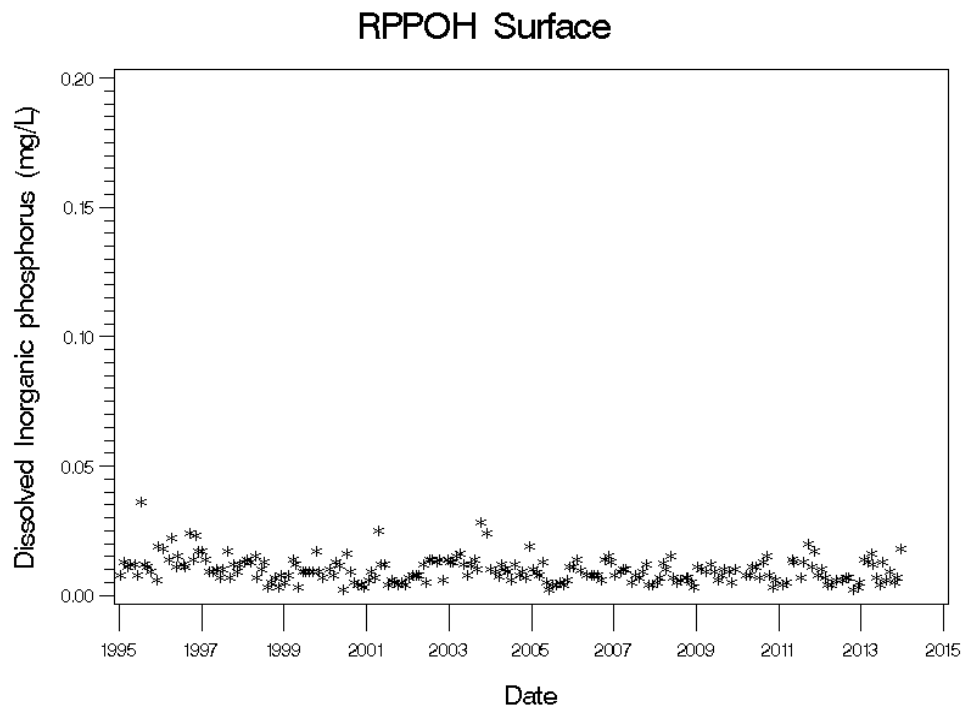


Figure 24. Scatterplots of surface dissolved inorganic phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

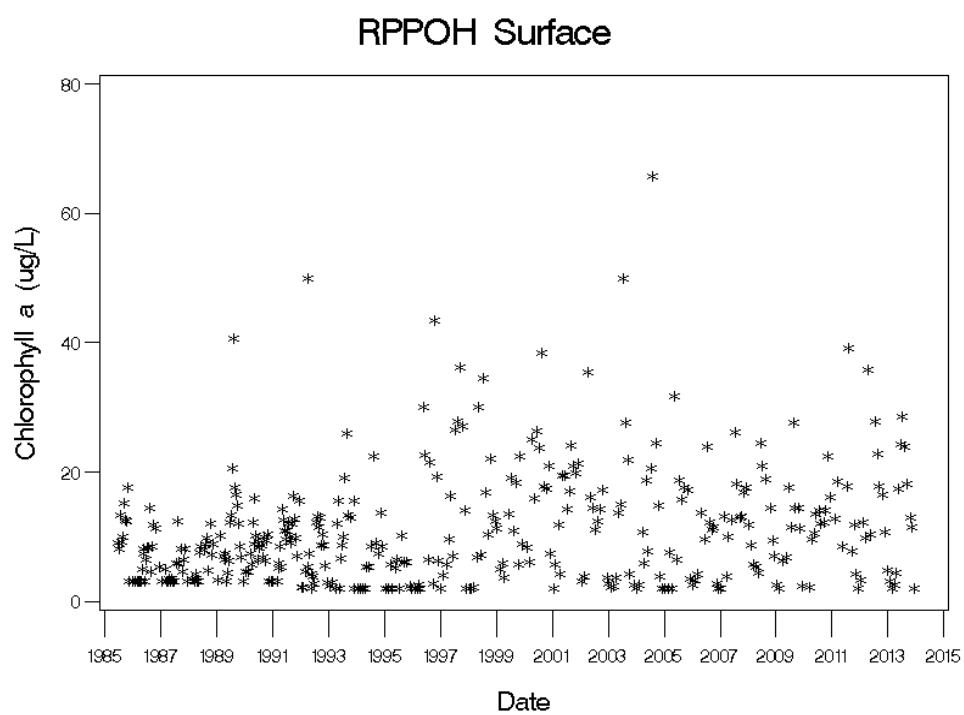


Figure 25. Scatterplot of surface chlorophyll a at segment RPPOH during the period 1985 to 2013.

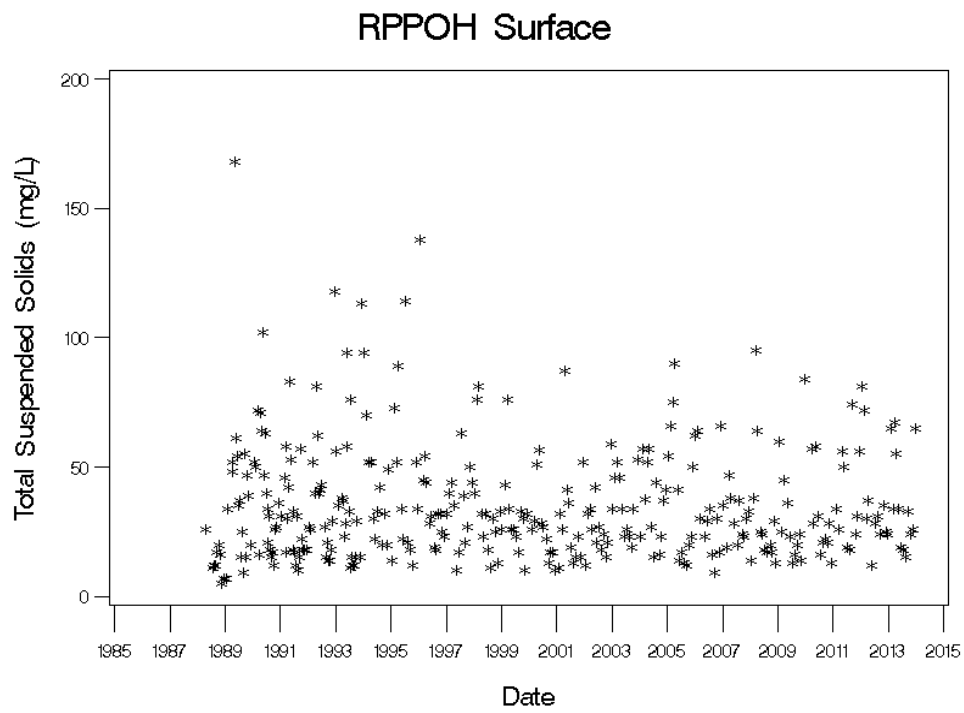


Figure 26. Scatterplot of surface total suspended solids at segment RPPOH during the period 1985 to 2013.

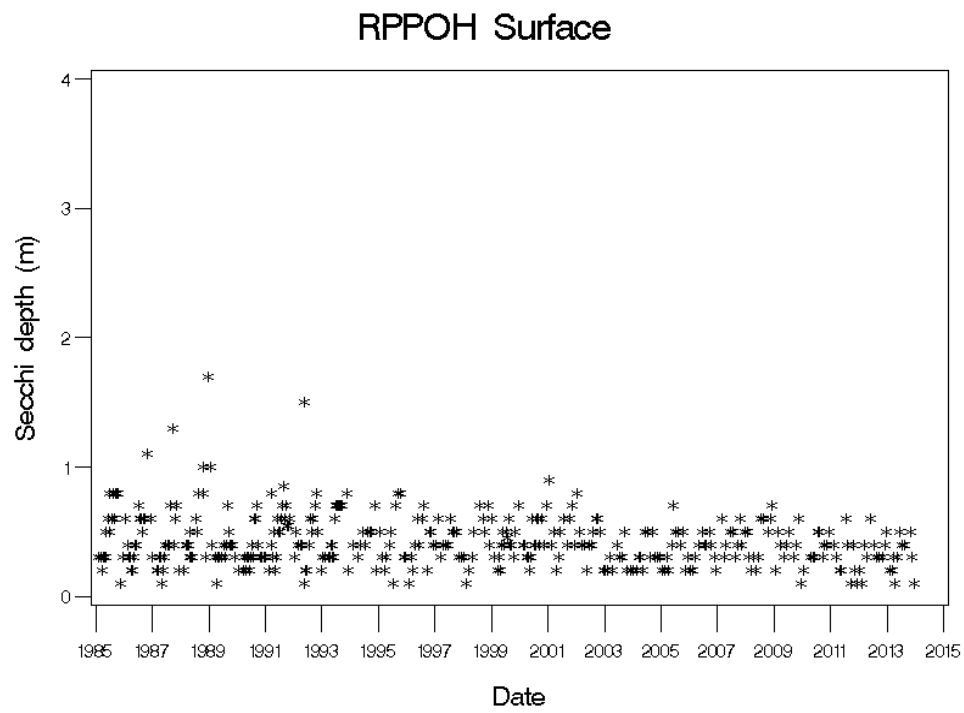


Figure 27. Scatterplot of secchi depth at segment RPPOH during the period 1985 to 2013.

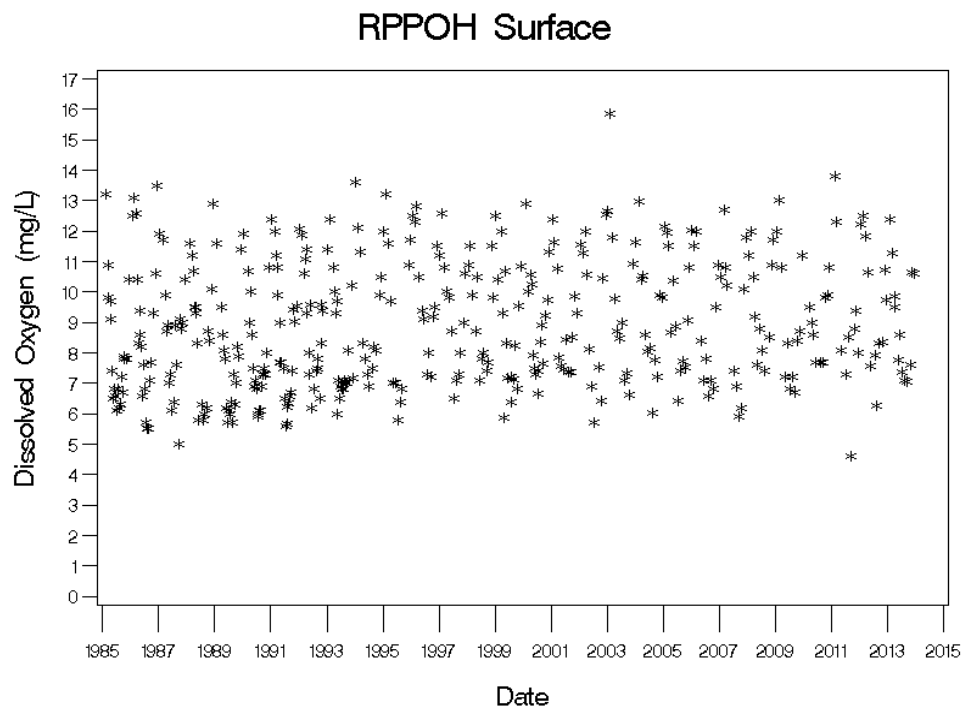


Figure 28. Scatterplot of surface dissolved oxygen at segment RPPOH during the period 1985 to 2013.

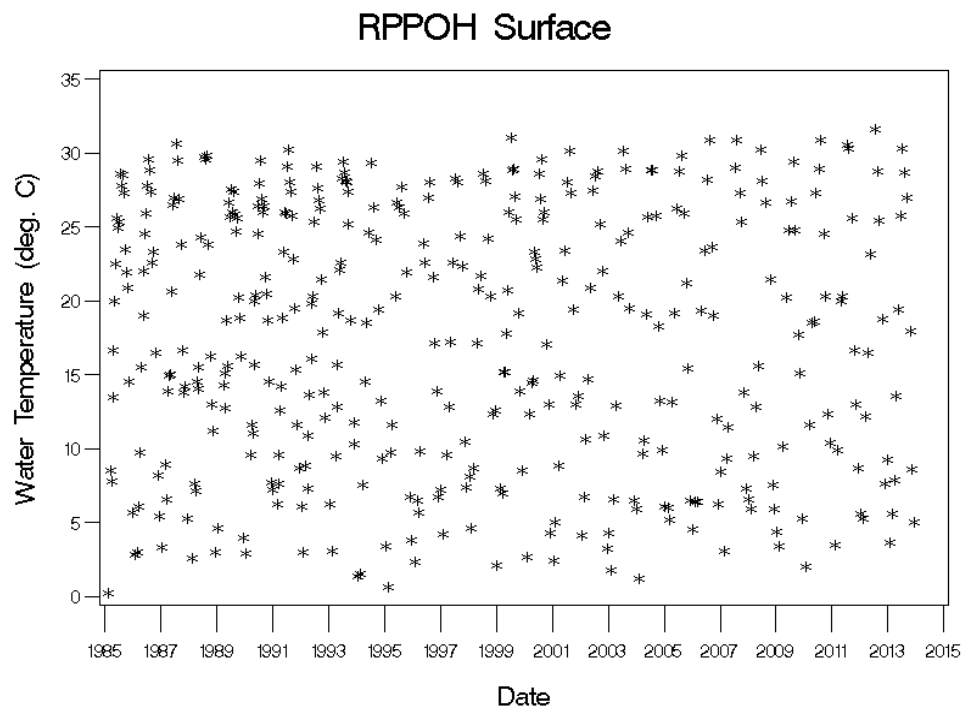


Figure 29. Scatterplot of surface water temperature at segment RPOH during the period 1985 to 2013.

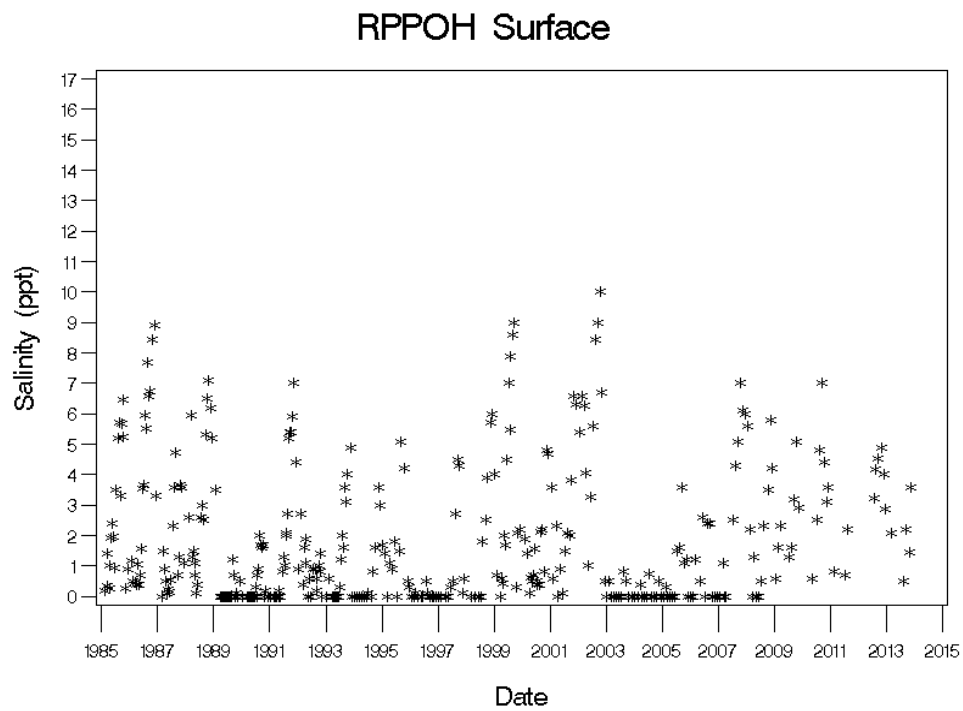


Figure 30. Scatterplot of surface salinity at segment RPOH during the period 1985 to 2013.

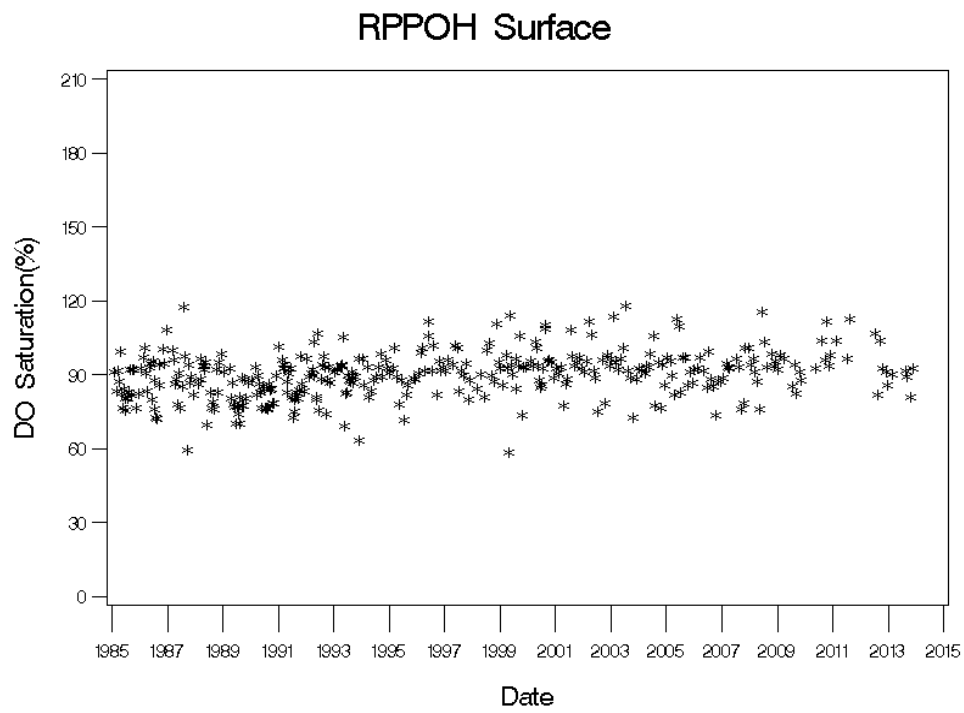
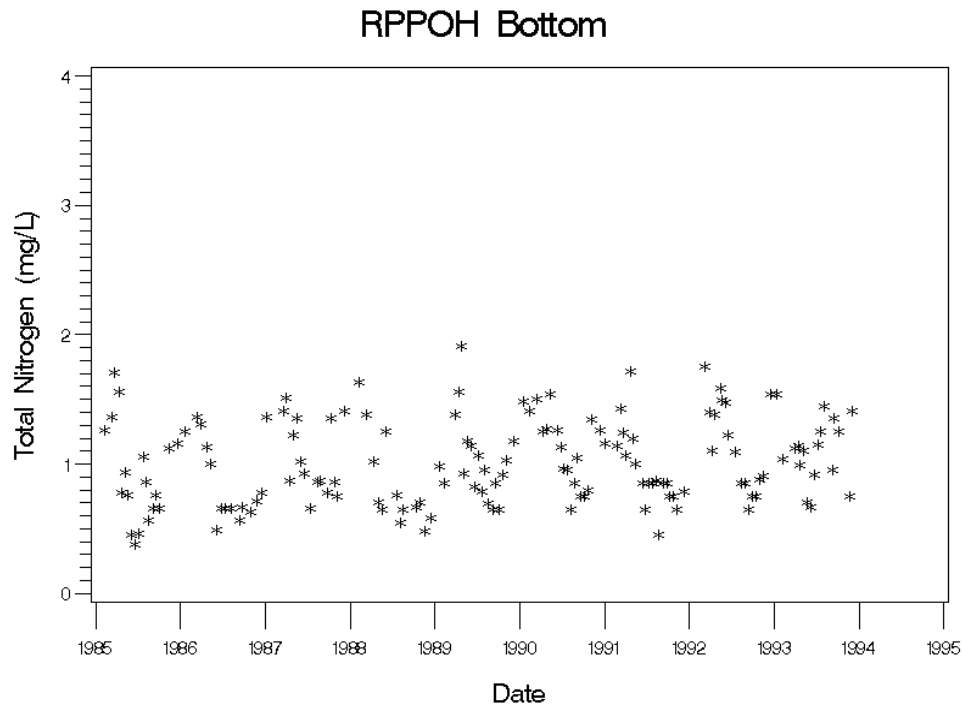


Figure 31. Scatterplot of surface DO saturation at segment RPPOH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

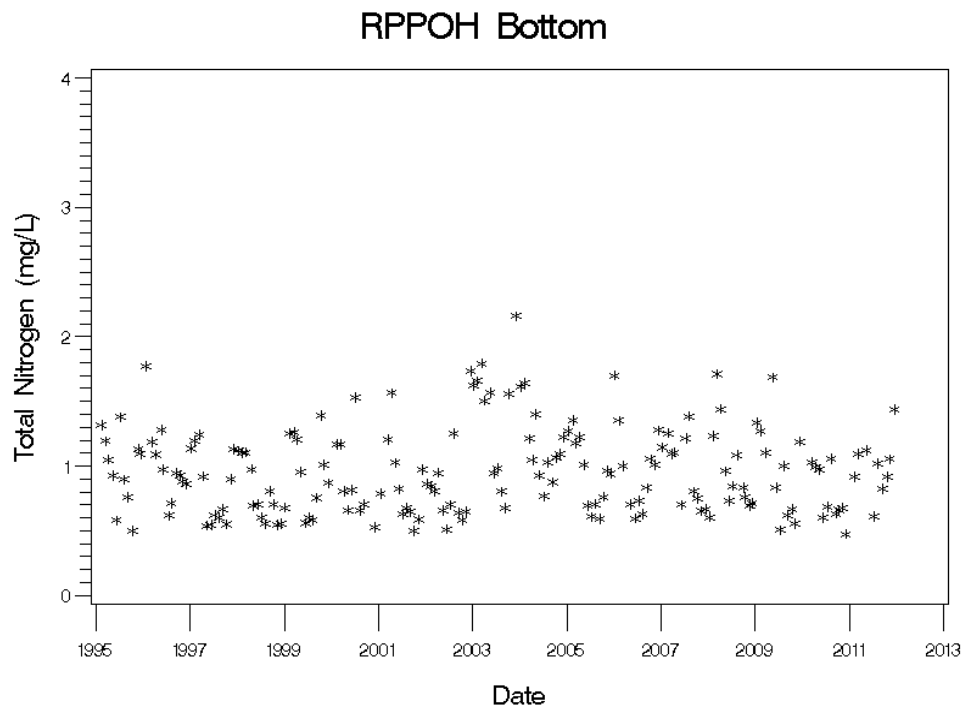
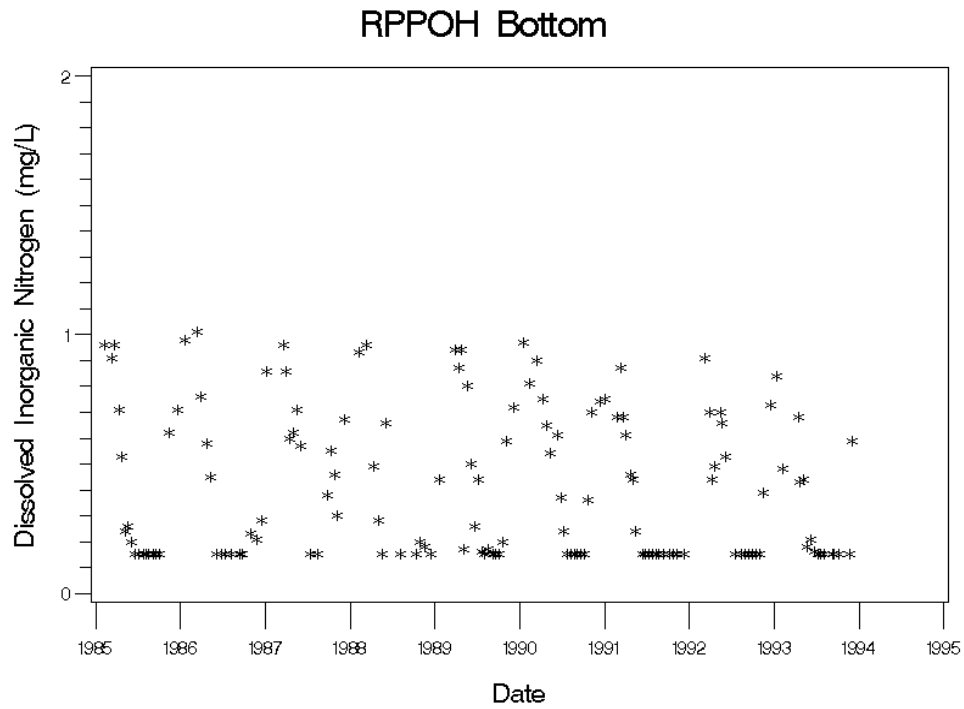


Figure 32. Scatterplots of bottom total nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

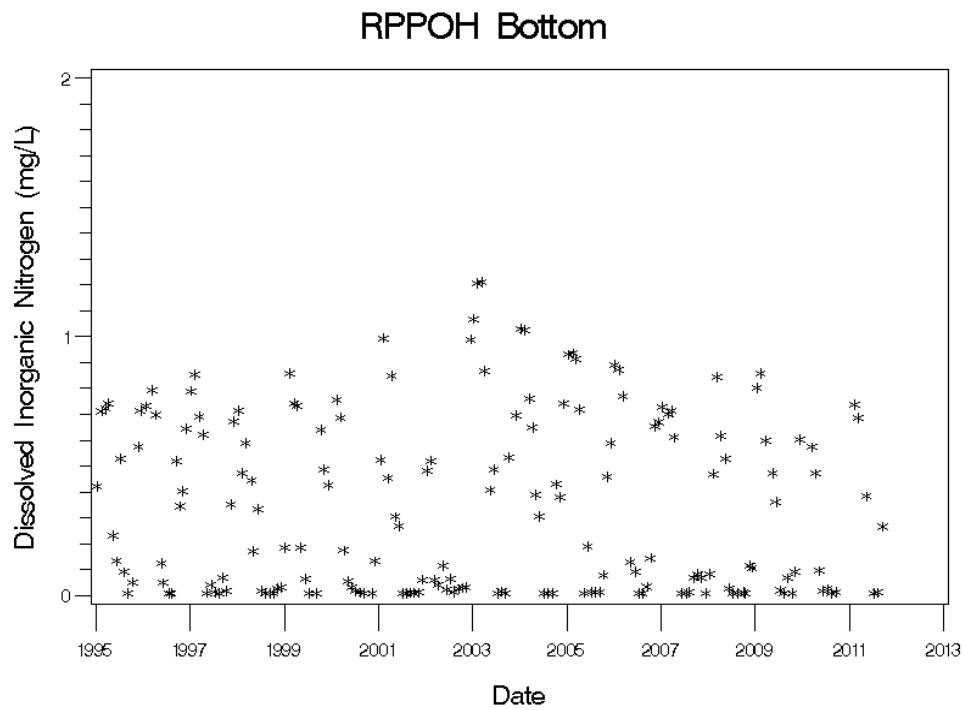
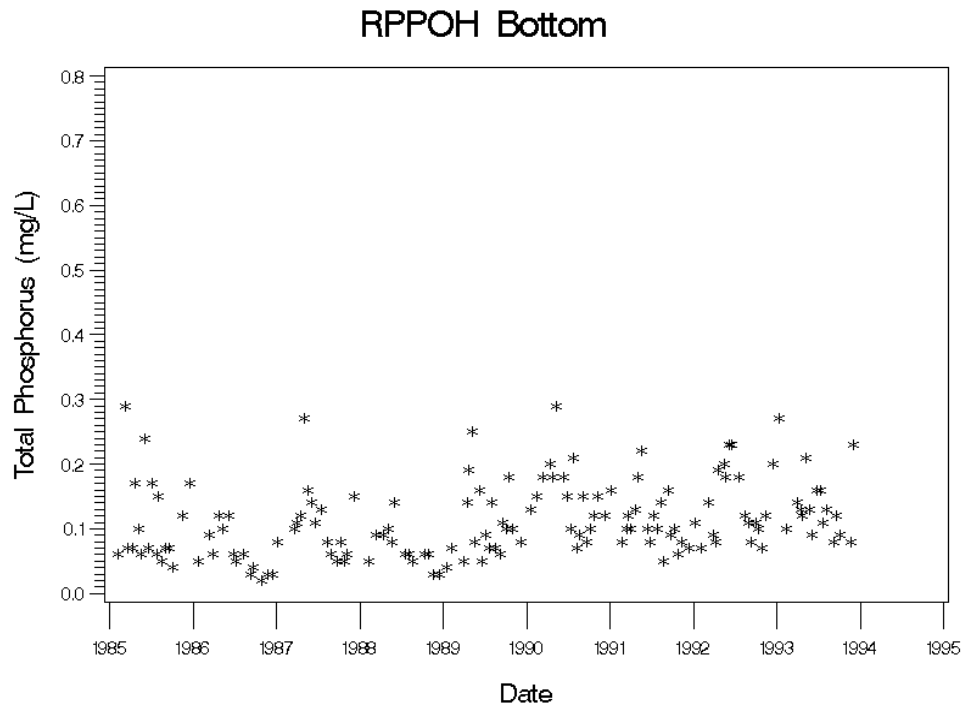


Figure 33. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

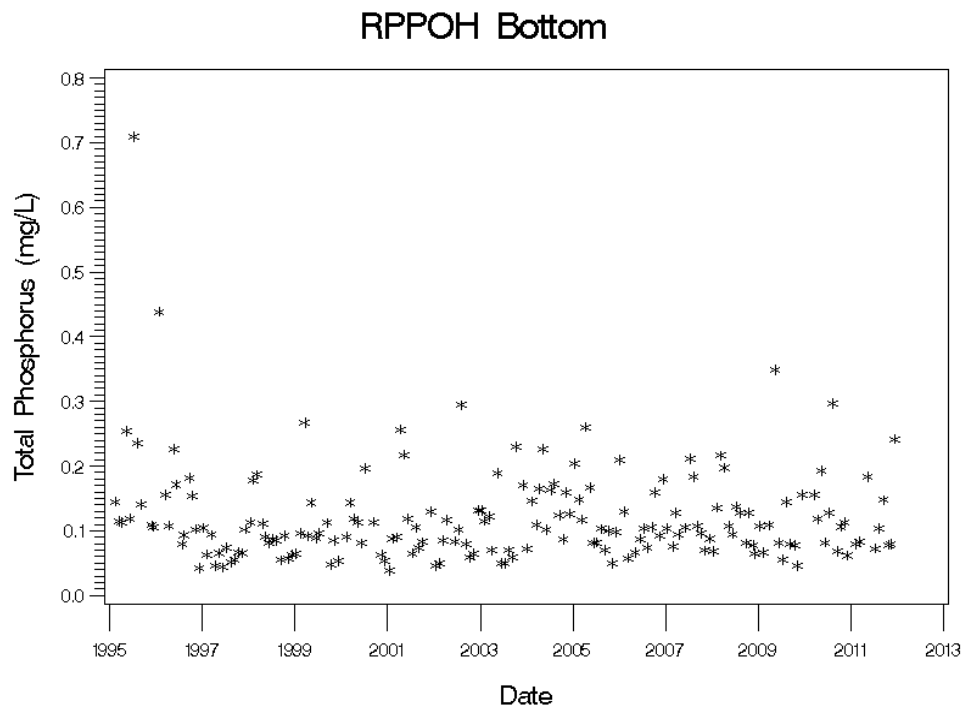
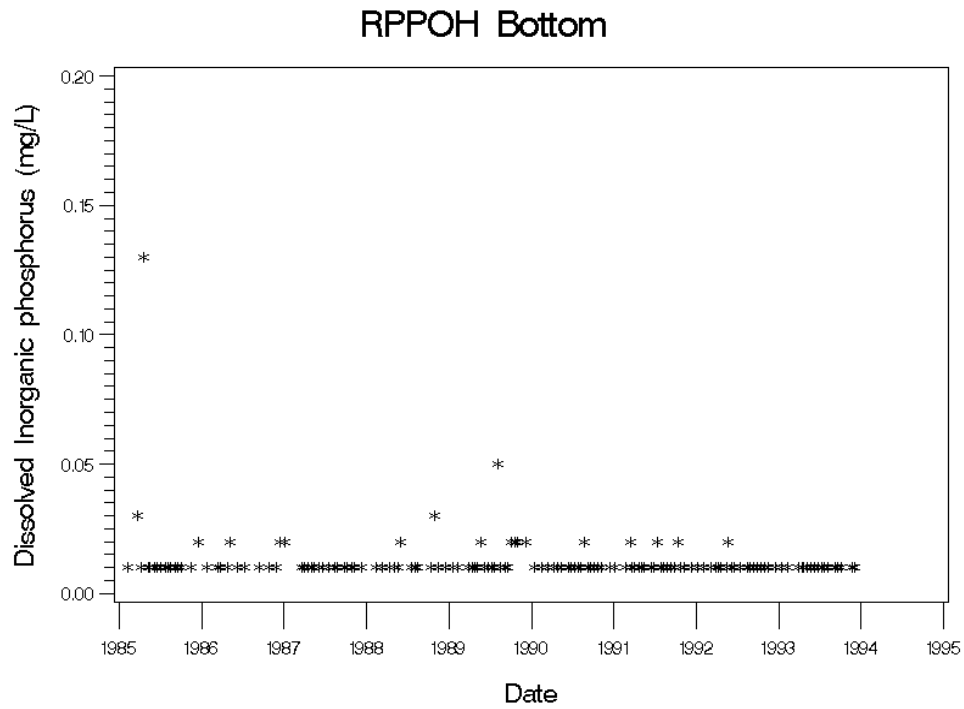


Figure 34. Scatterplots of bottom total phosphorus at segment RPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

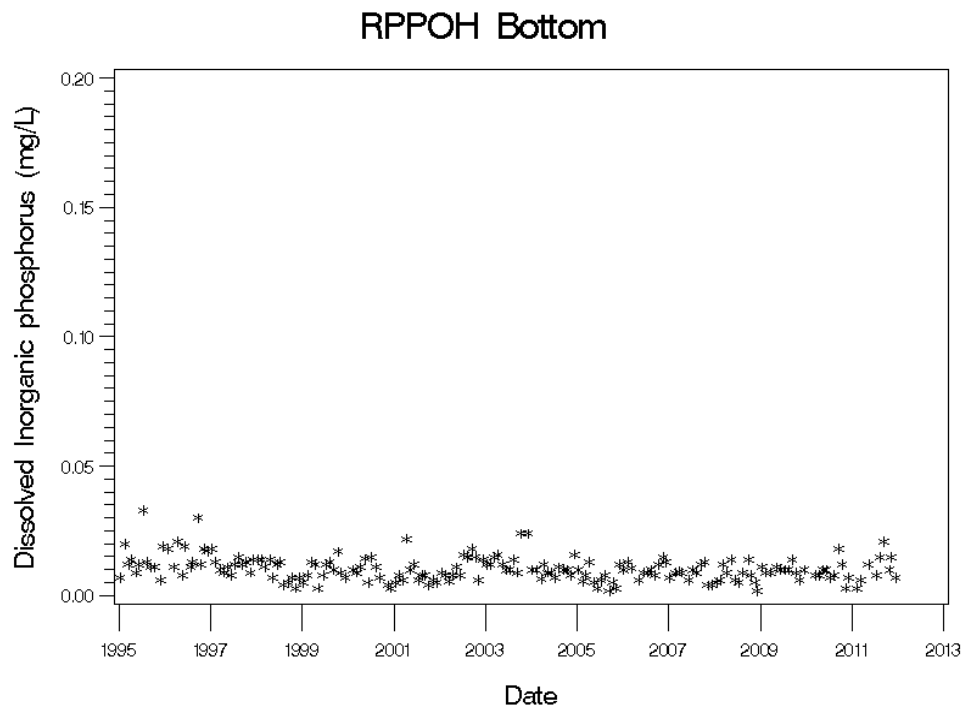


Figure 35. Scatterplots of bottom dissolved inorganic phosphorus at segment RPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

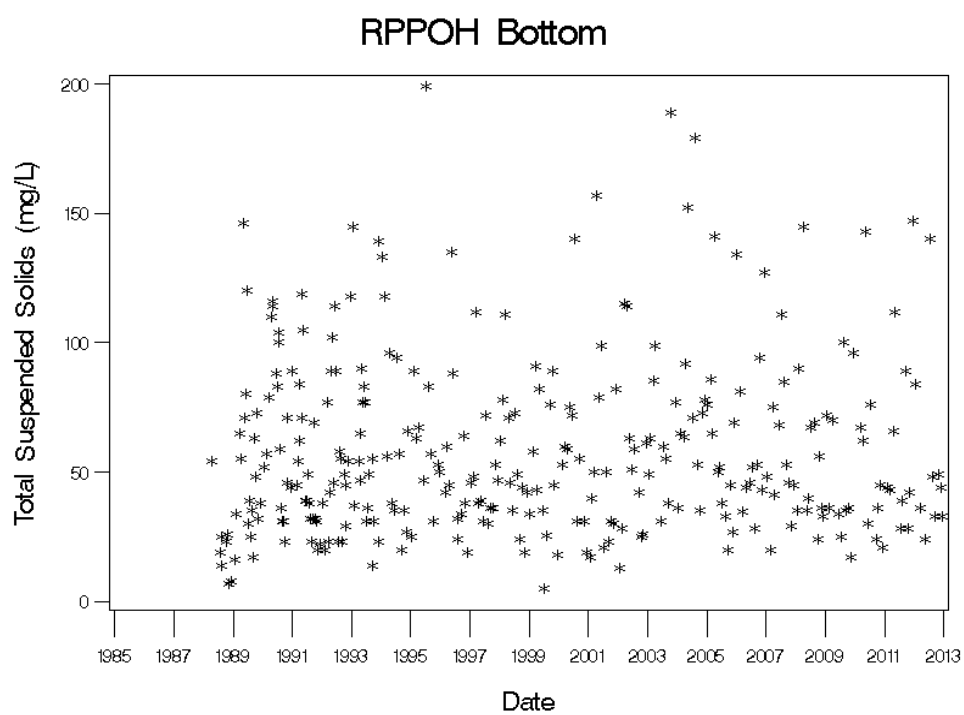


Figure 36. Scatterplot of bottom total suspended solids at segment RPOH during the period 1985 to 2013.

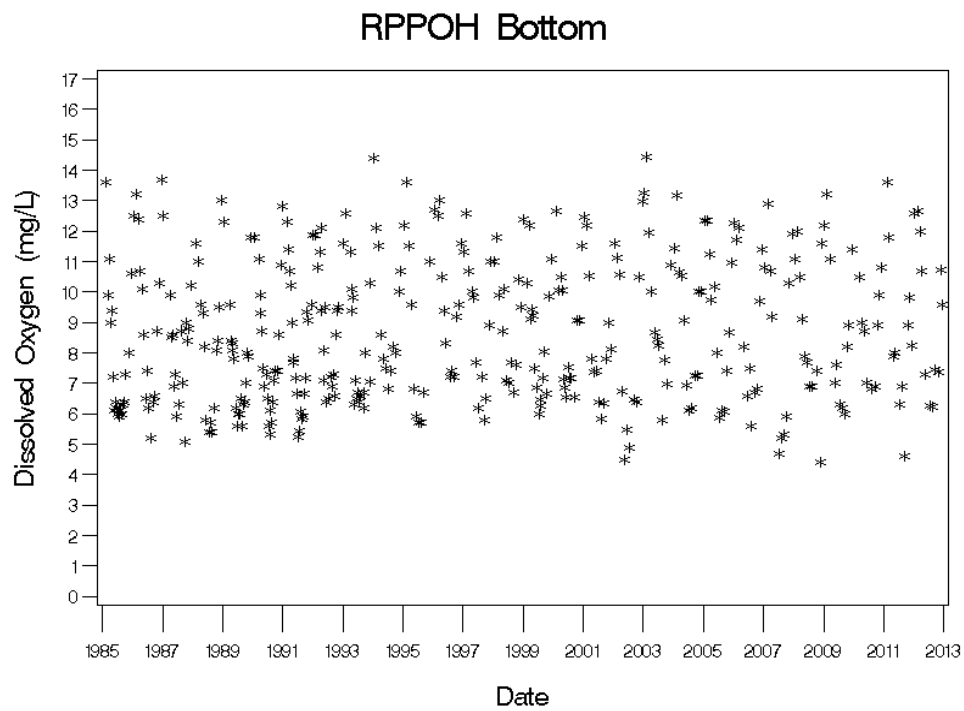


Figure 37. Scatterplot of bottom dissolved oxygen at segment RPPOH during the period 1985 to 2013.

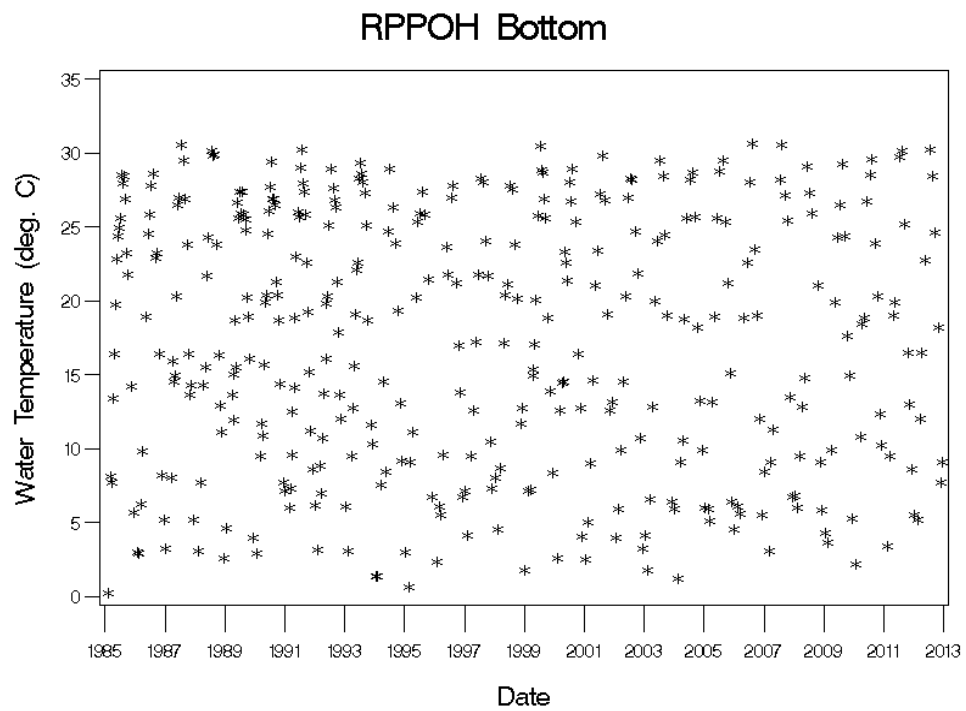


Figure 38. Scatterplot of bottom water temperature at segment RPOH during the period 1985 to 2013.

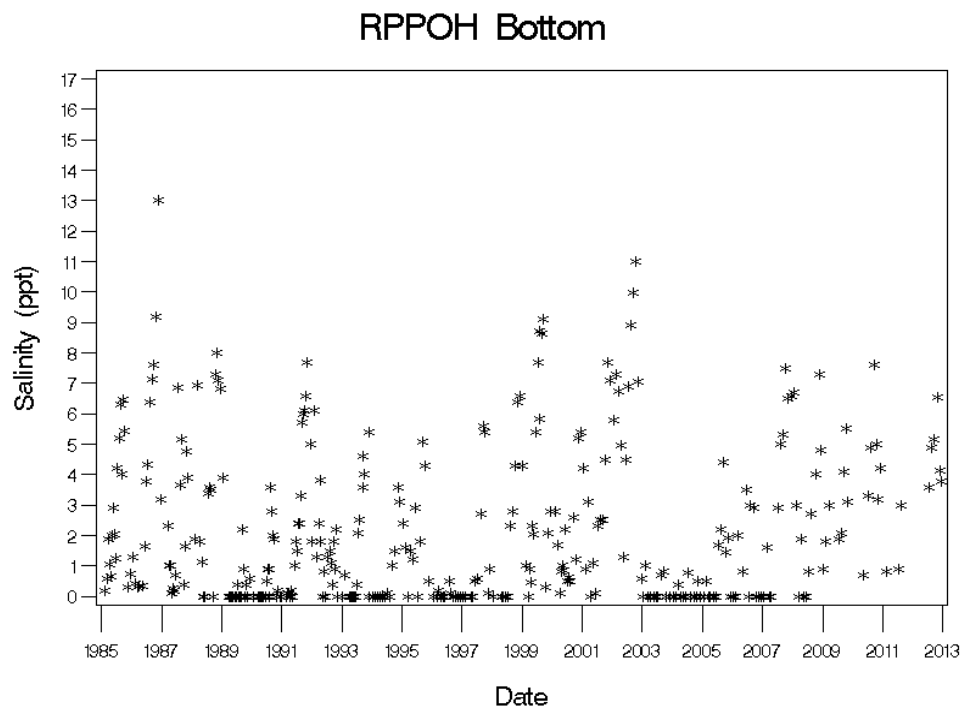


Figure 39. Scatterplot of bottom salinity at segment RPOH during the period 1985 to 2013.

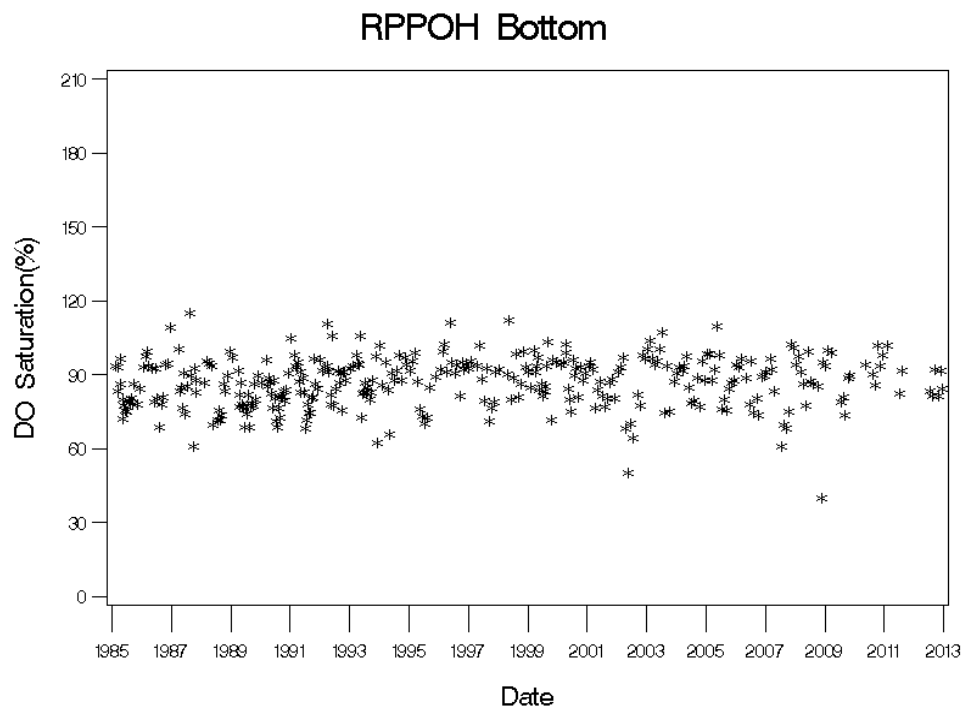
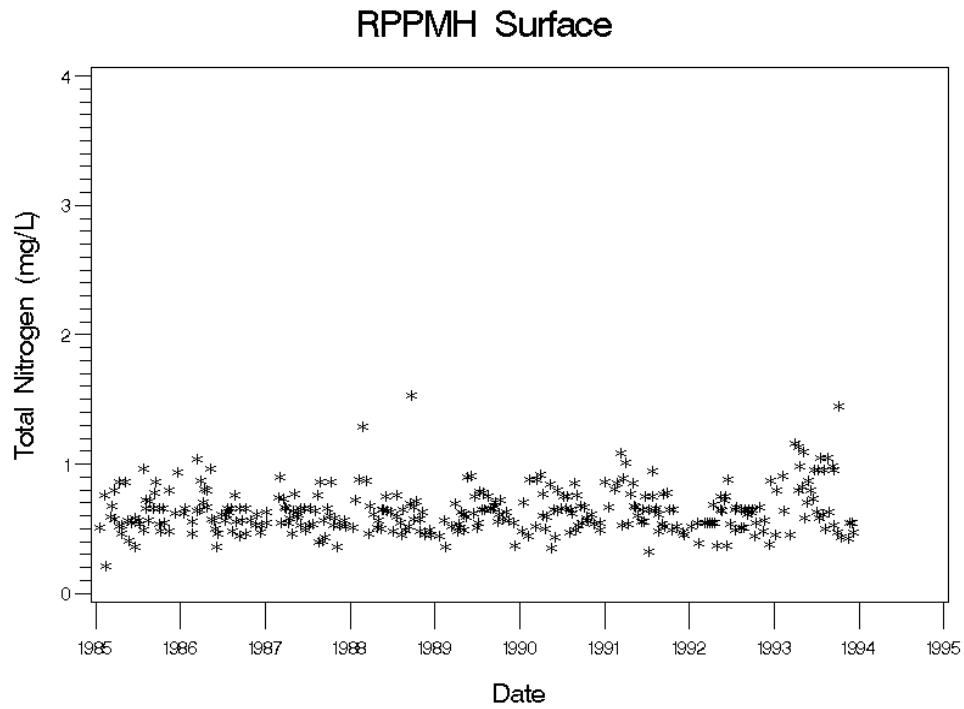


Figure 40. Scatterplot of bottom DO saturation at segment RPPOH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

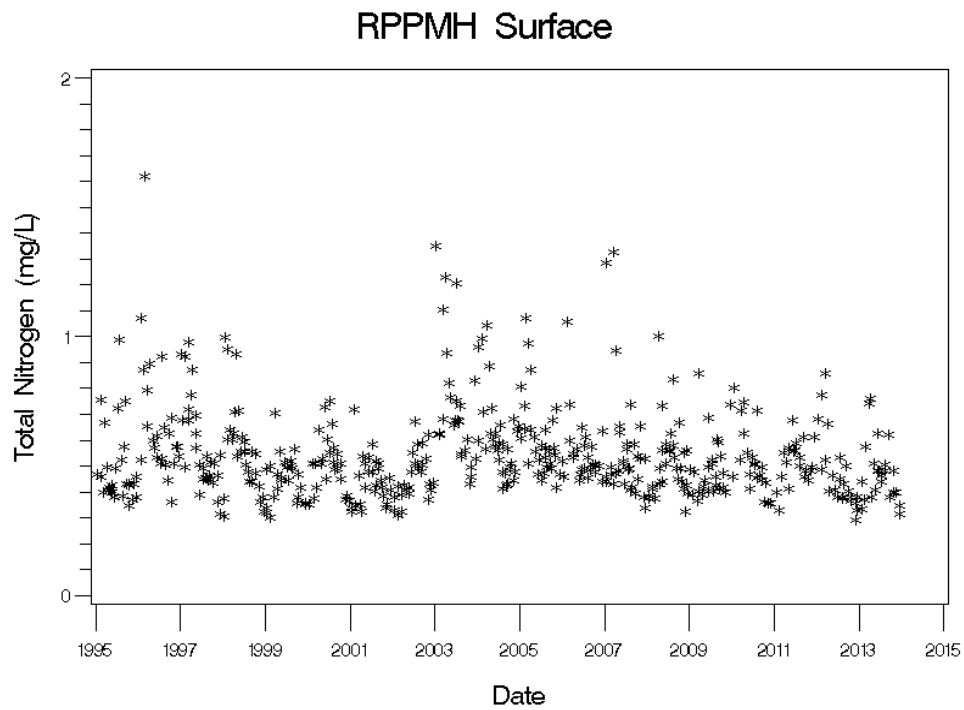
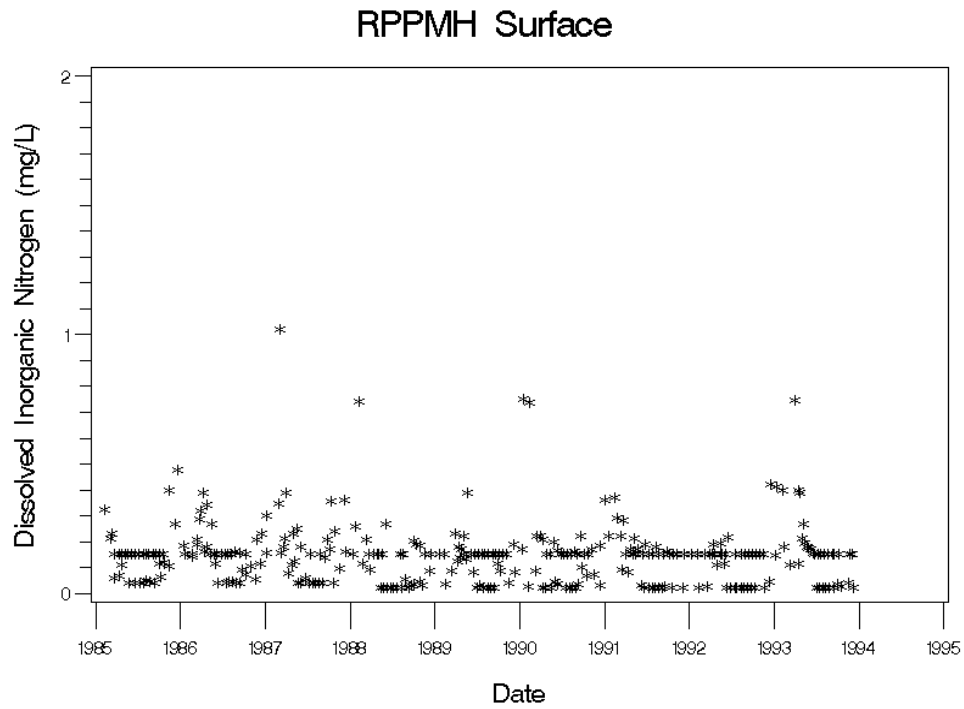


Figure 41. Scatterplots of surface total nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

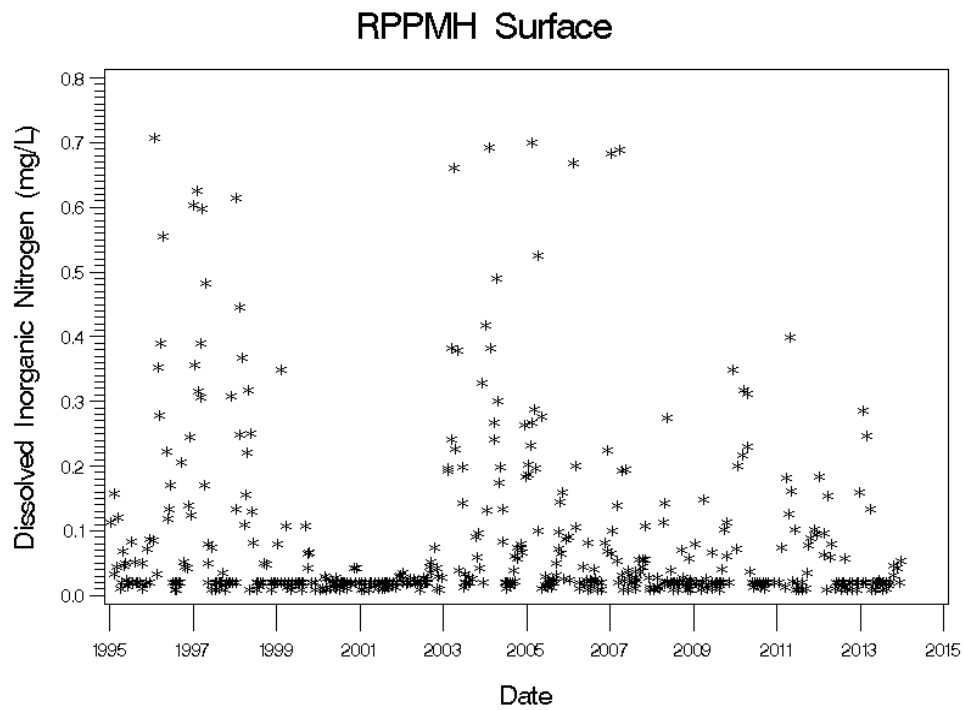
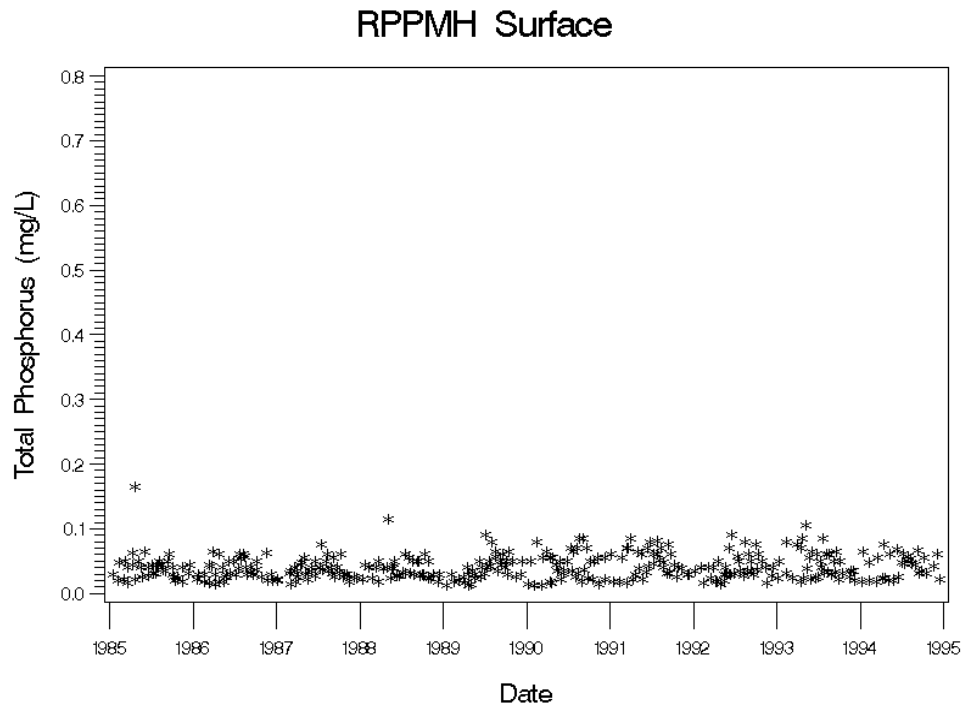


Figure 42. Scatterplots of surface dissolved inorganic nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

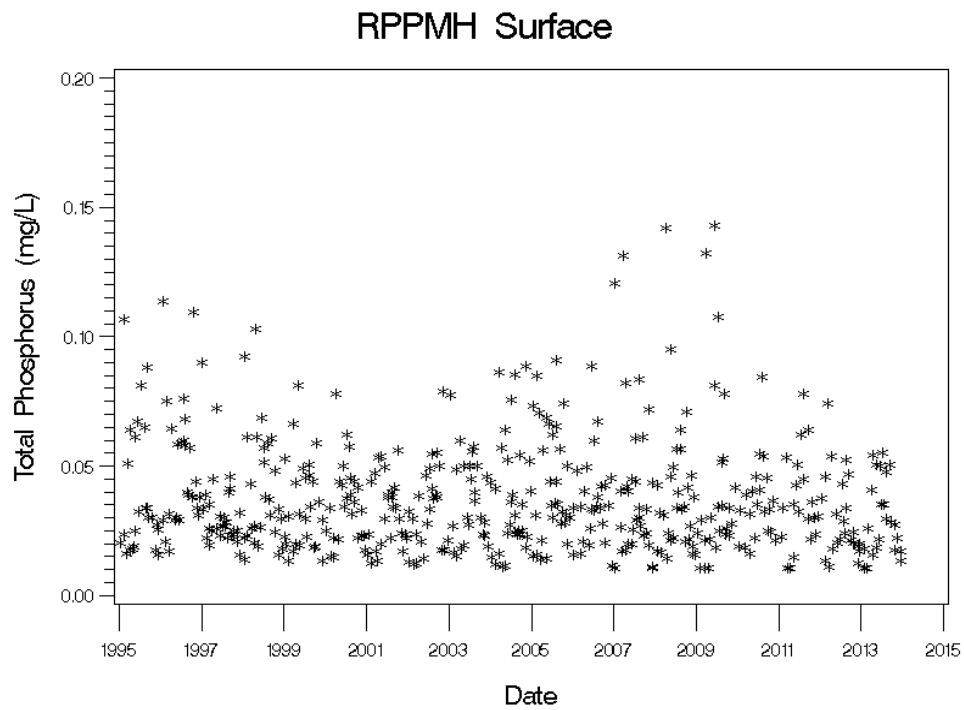
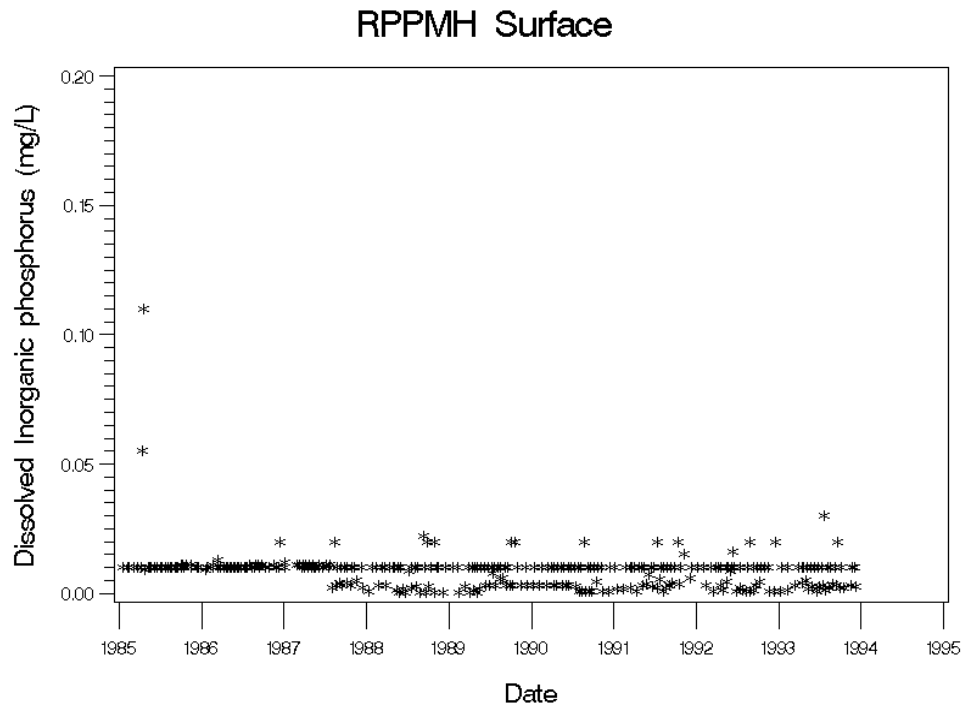


Figure 43. Scatterplots of surface total phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

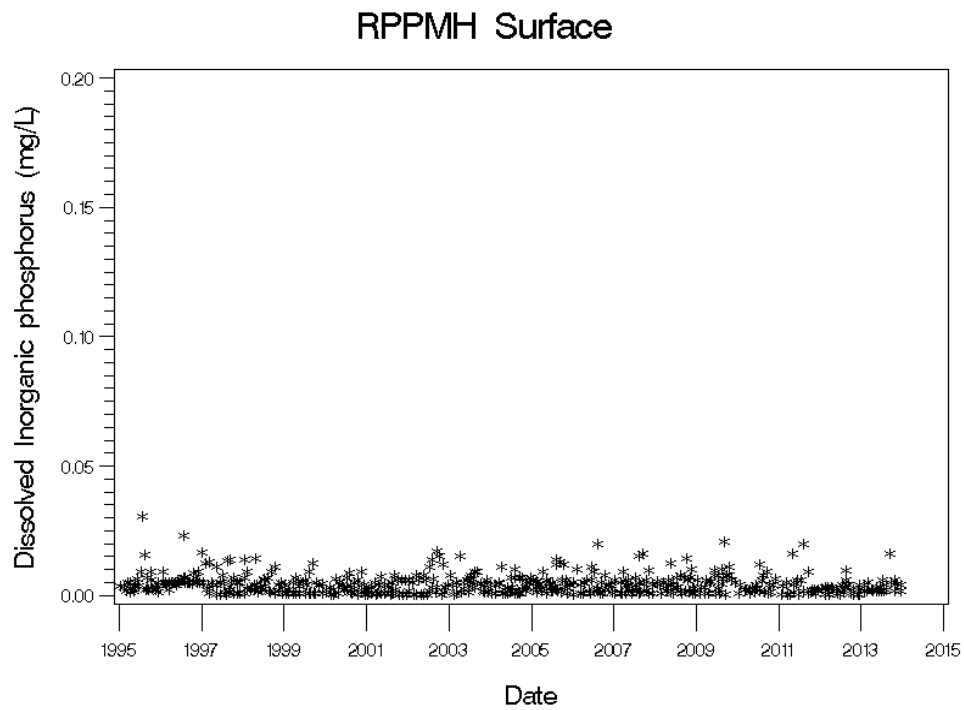


Figure 44. Scatterplots of surface dissolved inorganic phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

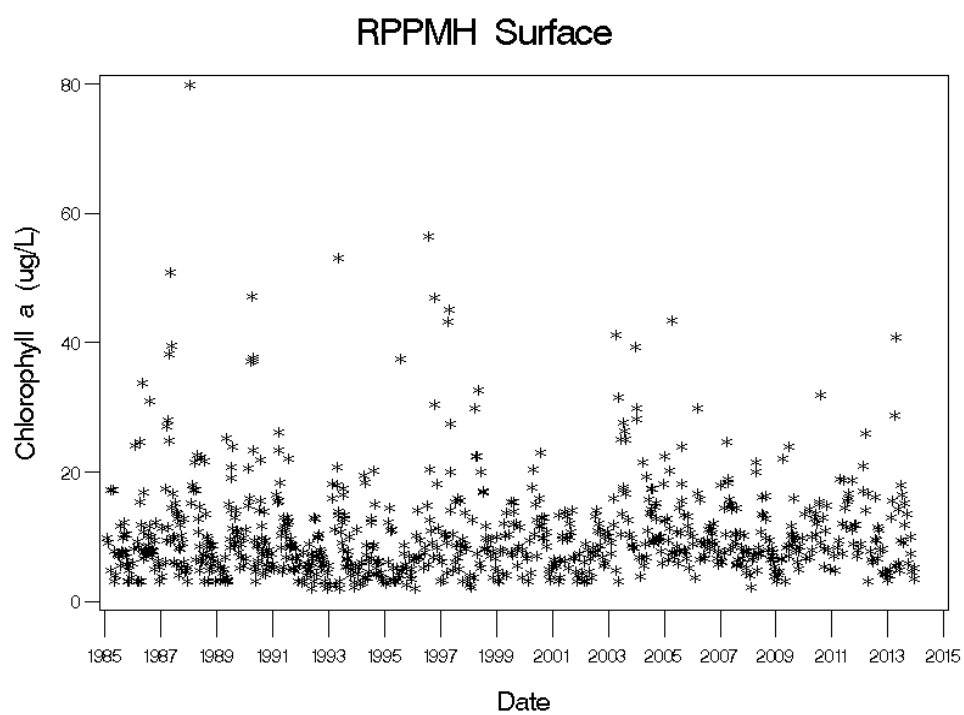


Figure 45. Scatterplot of surface chlorophyll a at segment RPPMH during the period 1985 to 2013.

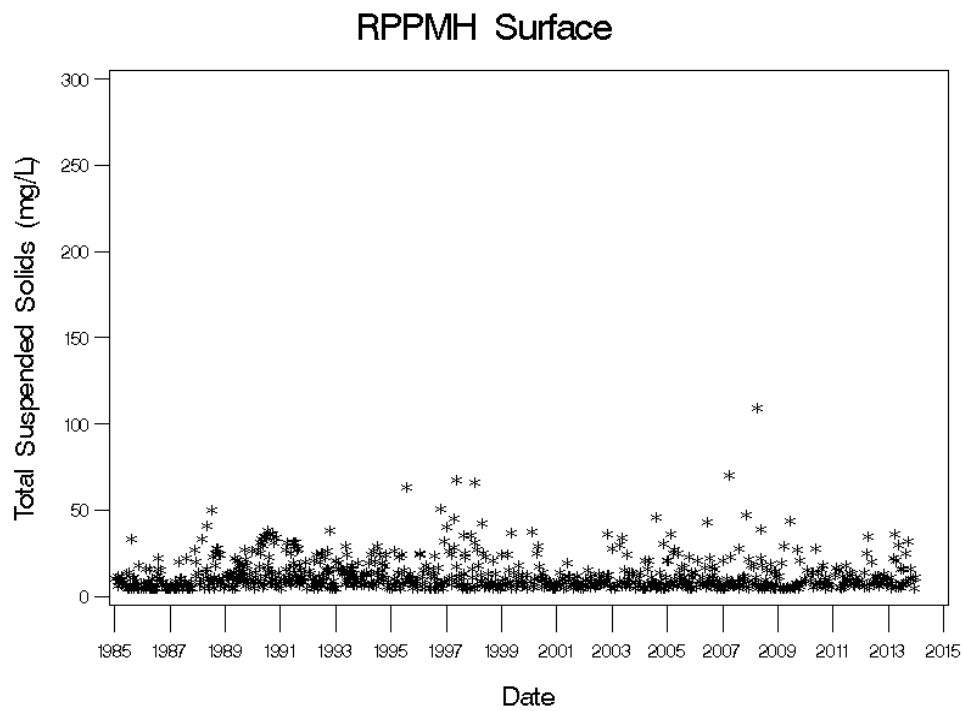


Figure 46. Scatterplot of surface total suspended solids at segment RPPMH during the period 1985 to 2013.

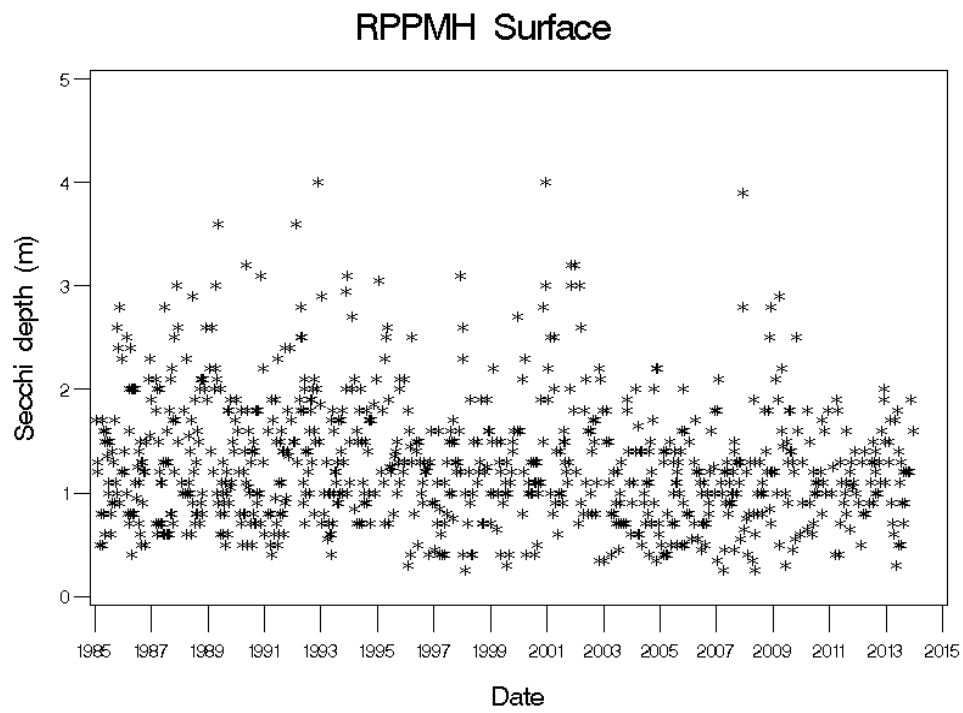


Figure 47. Scatterplot of secchi depth at segment RPPMH during the period 1985 to 2013.

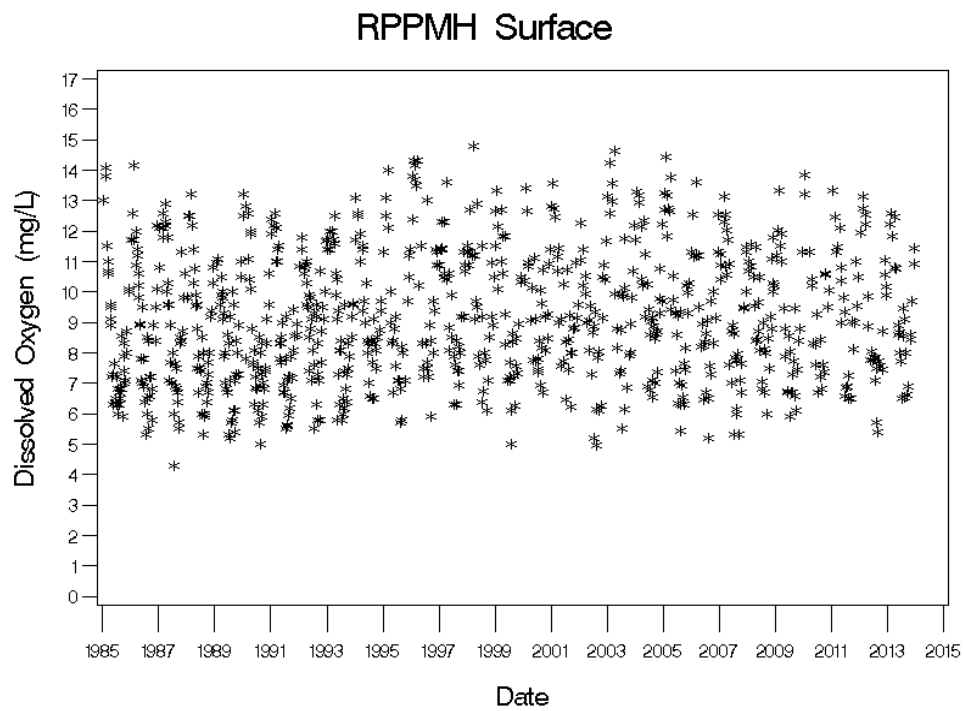


Figure 48. Scatterplot of surface dissolved oxygen at segment RPPMH during the period 1985 to 2013.

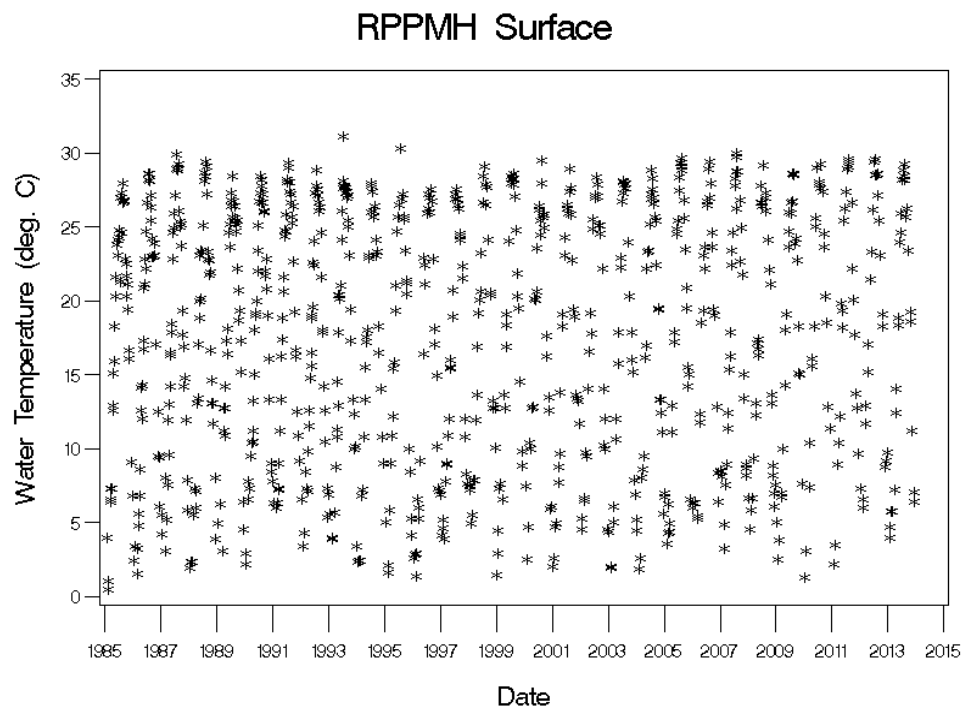


Figure 49. Scatterplot of surface water temperature at segment RPPMH during the period 1985 to 2013.

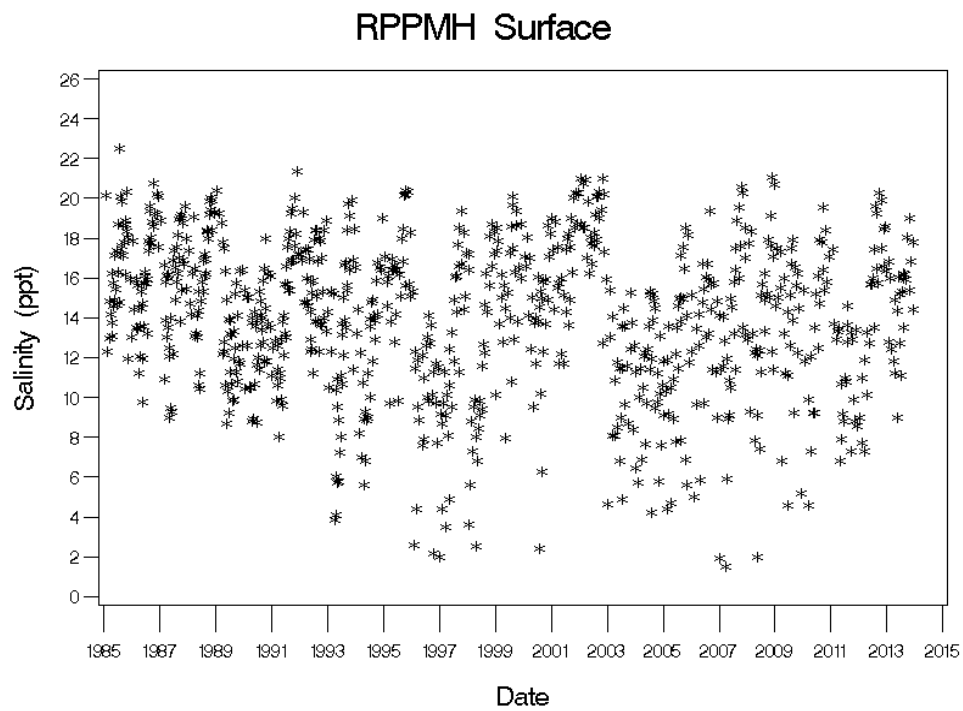


Figure 50. Scatterplot of surface salinity at segment RPPMH during the period 1985 to 2013.

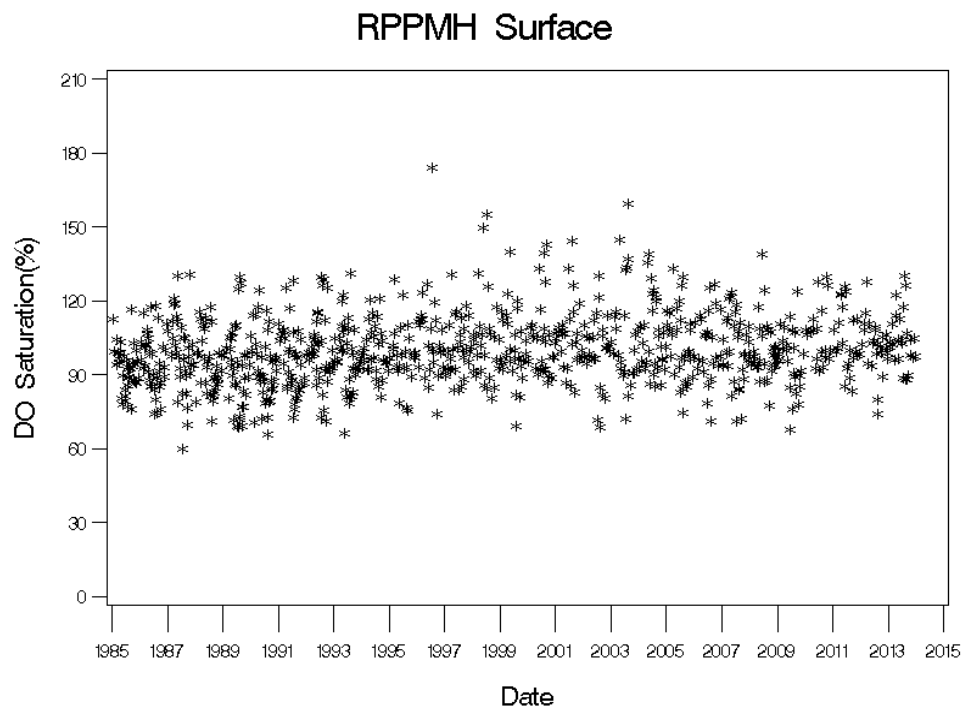
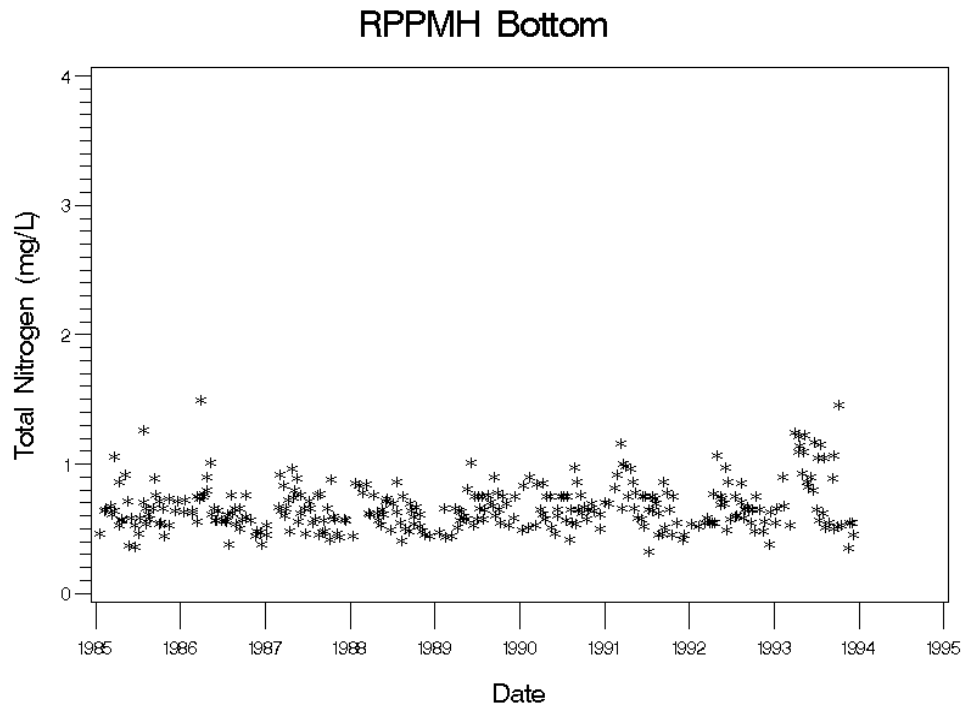


Figure 51. Scatterplot of surface DO saturation at segment RPPMH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

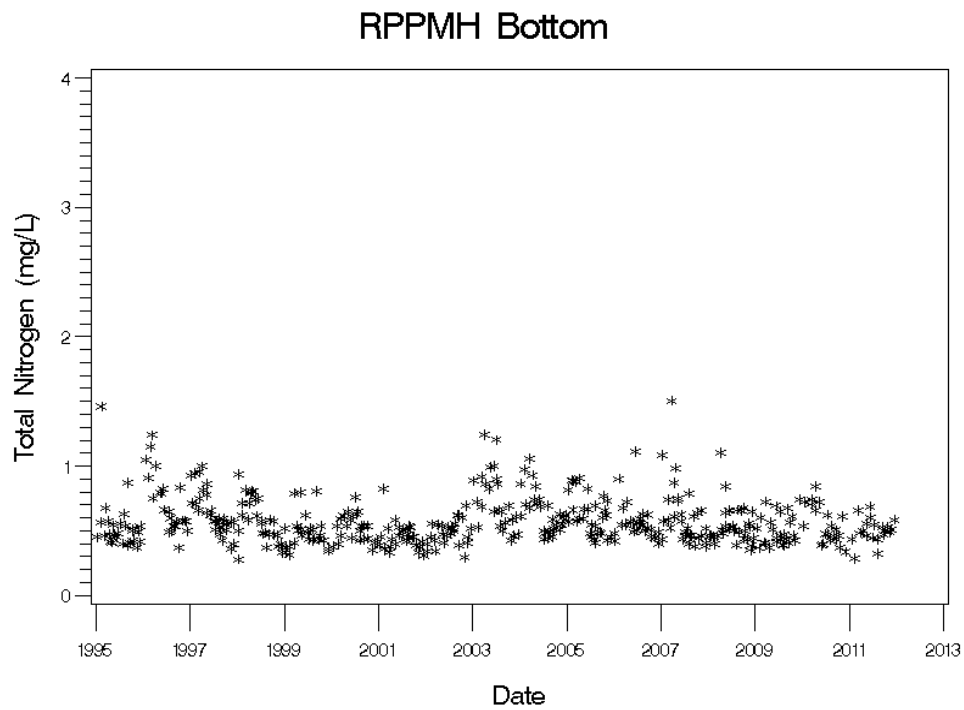
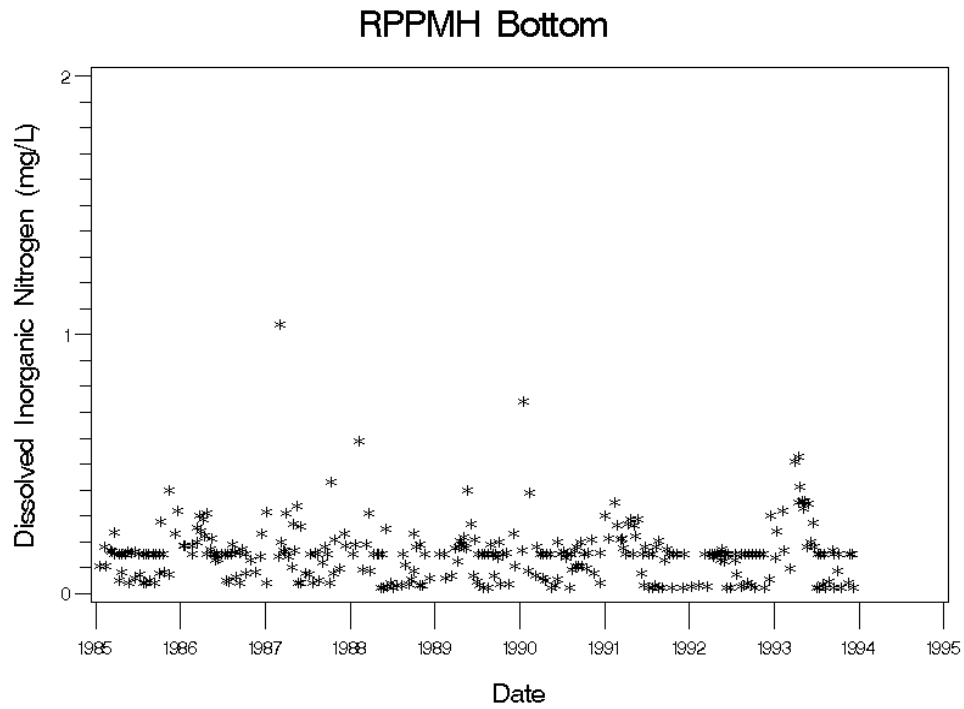


Figure 52. Scatterplots of bottom total nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

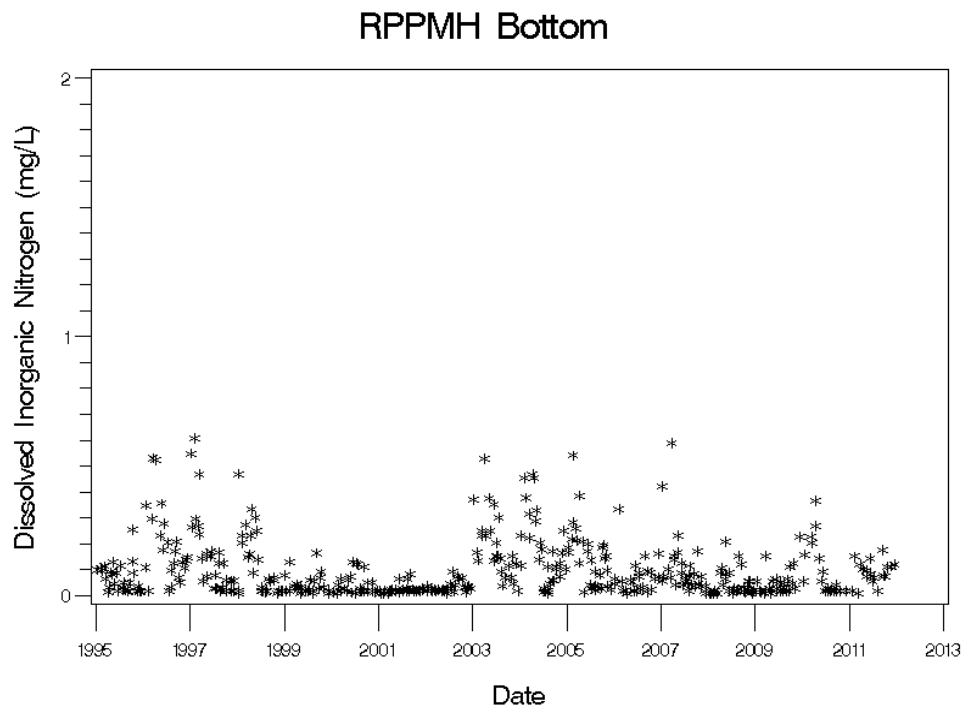
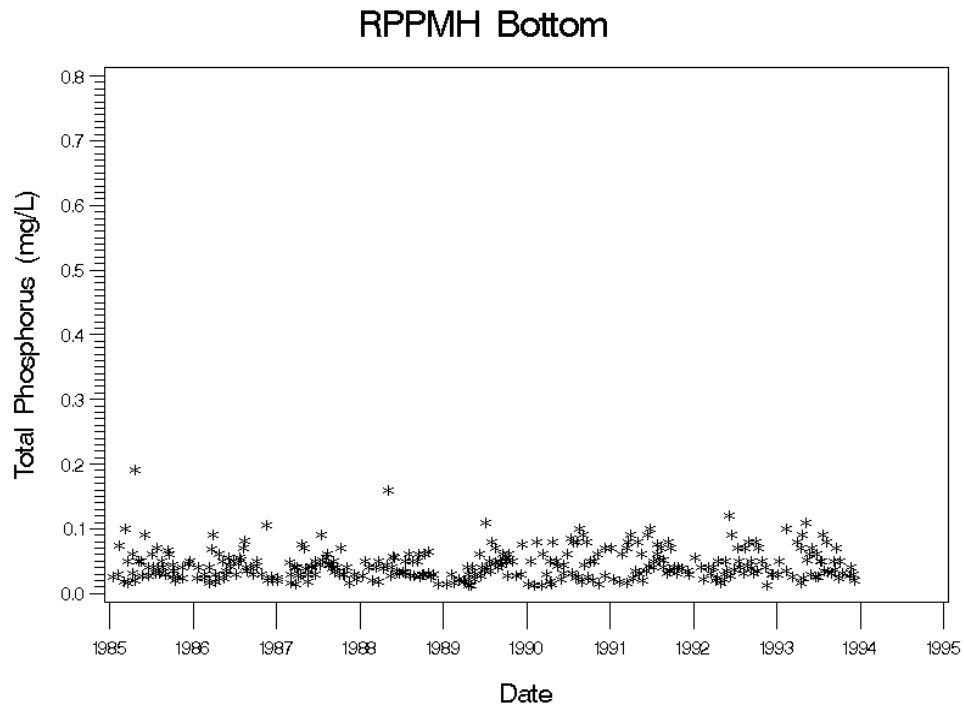


Figure 53. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

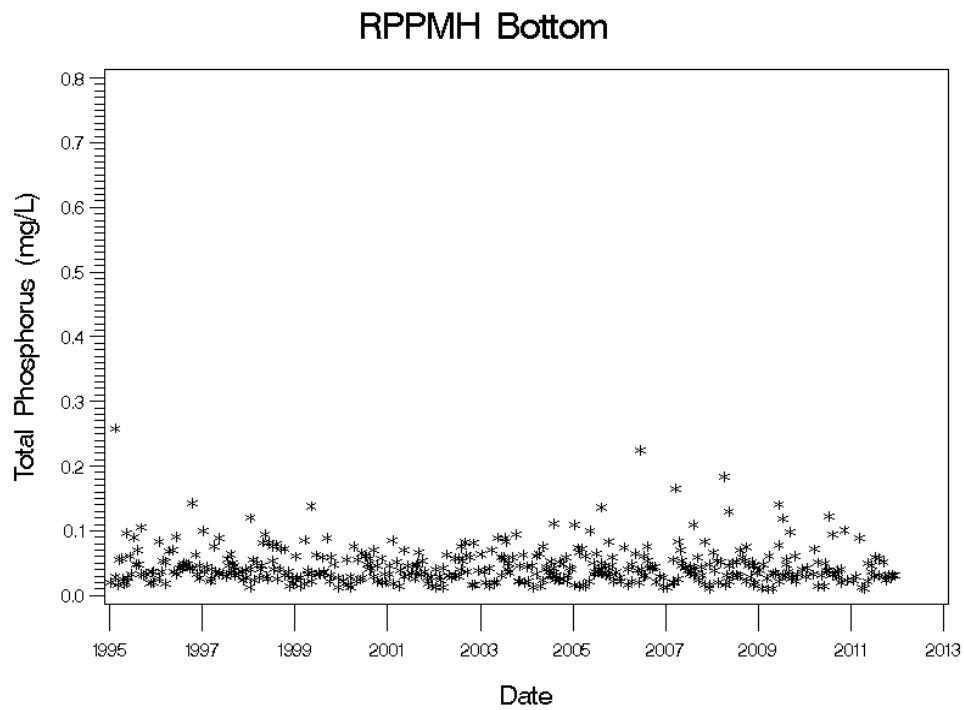
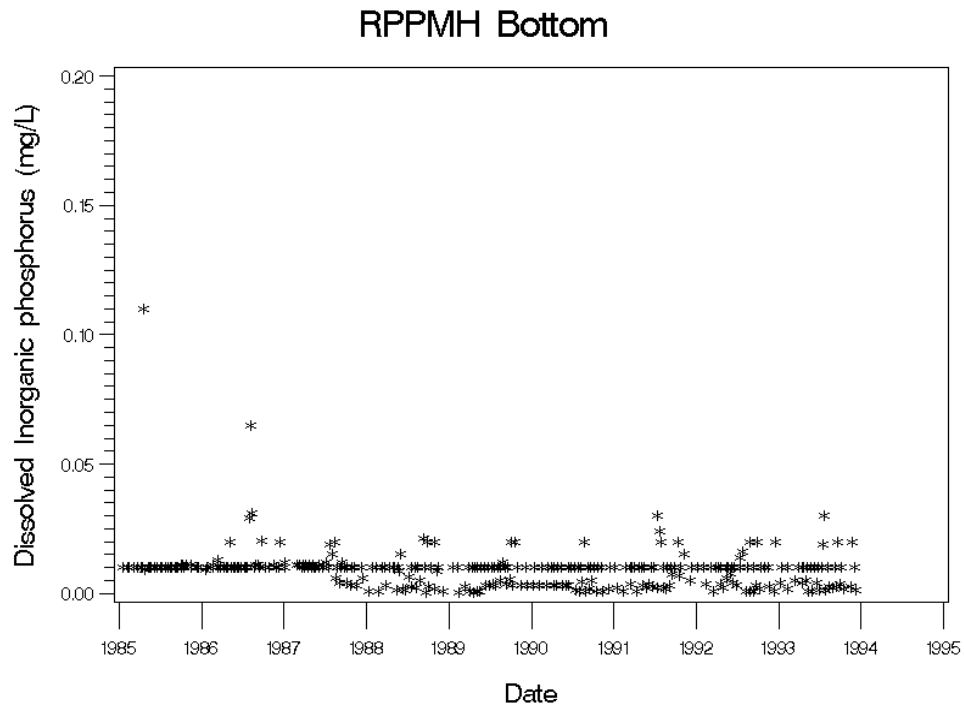


Figure 54. Scatterplots of bottom total phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

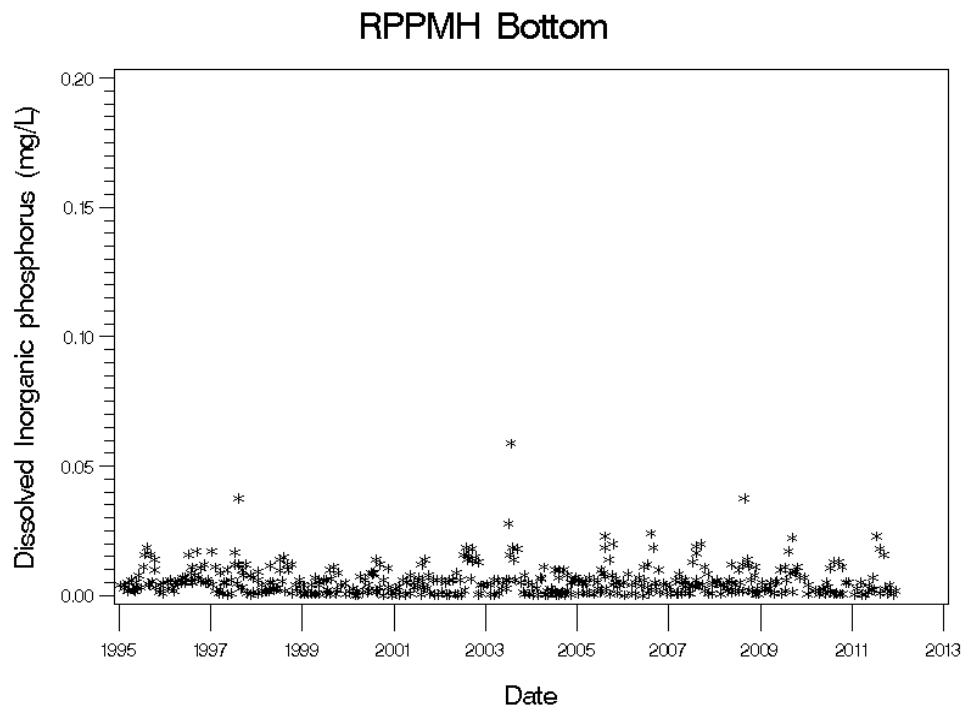


Figure 55. Scatterplots of bottom dissolved inorganic phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

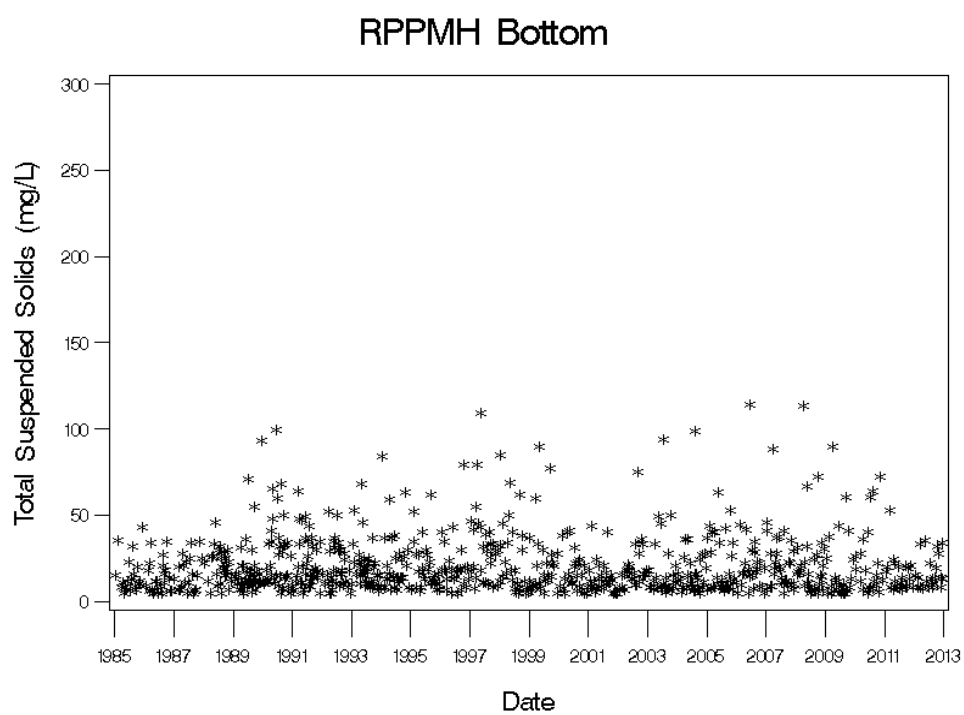


Figure 56. Scatterplot of bottom total suspended solids at segment RPPMH during the period 1985 to 2013.

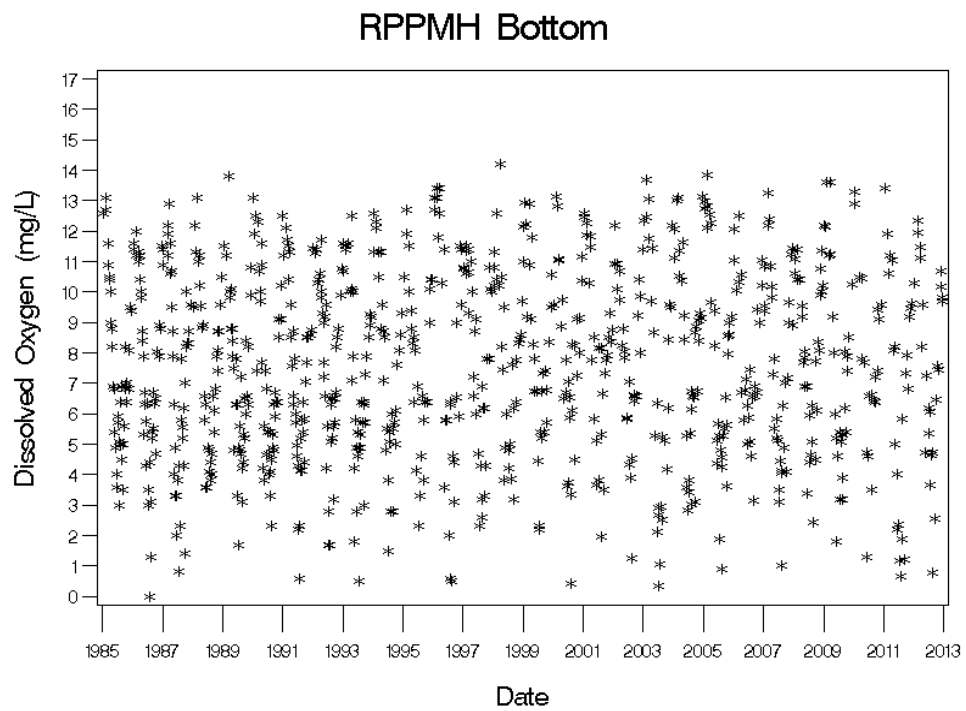


Figure 57. Scatterplot of bottom dissolved oxygen at segment RPPMH during the period 1985 to 2013.

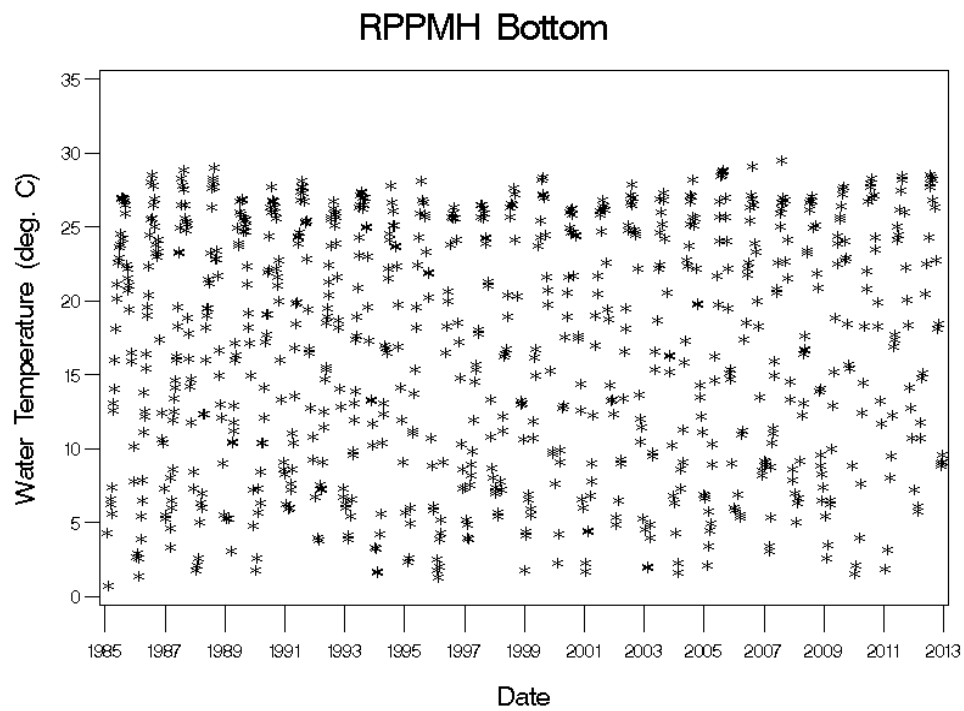


Figure 58. Scatterplot of bottom water temperature at segment RPPMH during the period 1985 to 2013.

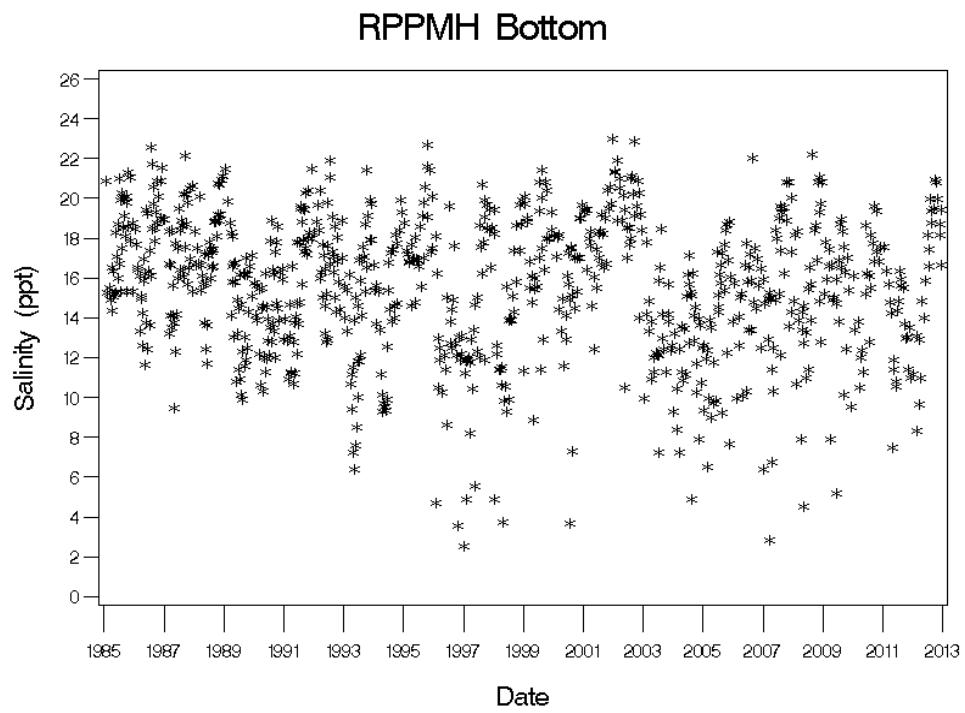


Figure 59. Scatterplot of bottom salinity at segment RPPMH during the period 1985 to 2013.

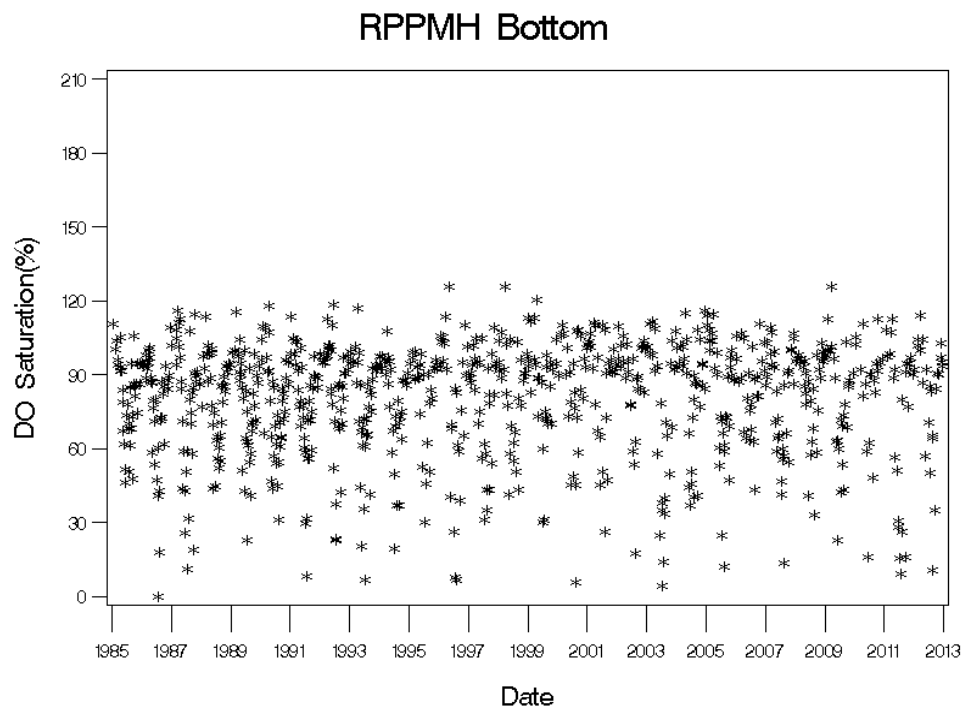
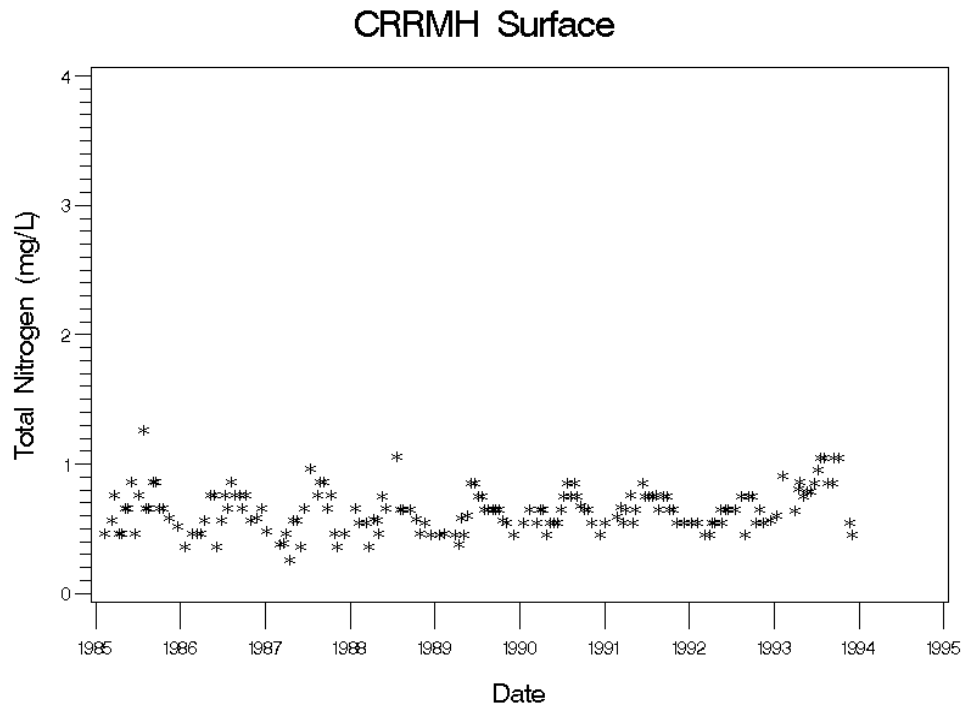


Figure 60. Scatterplot of bottom DO saturation at segment RPPMH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

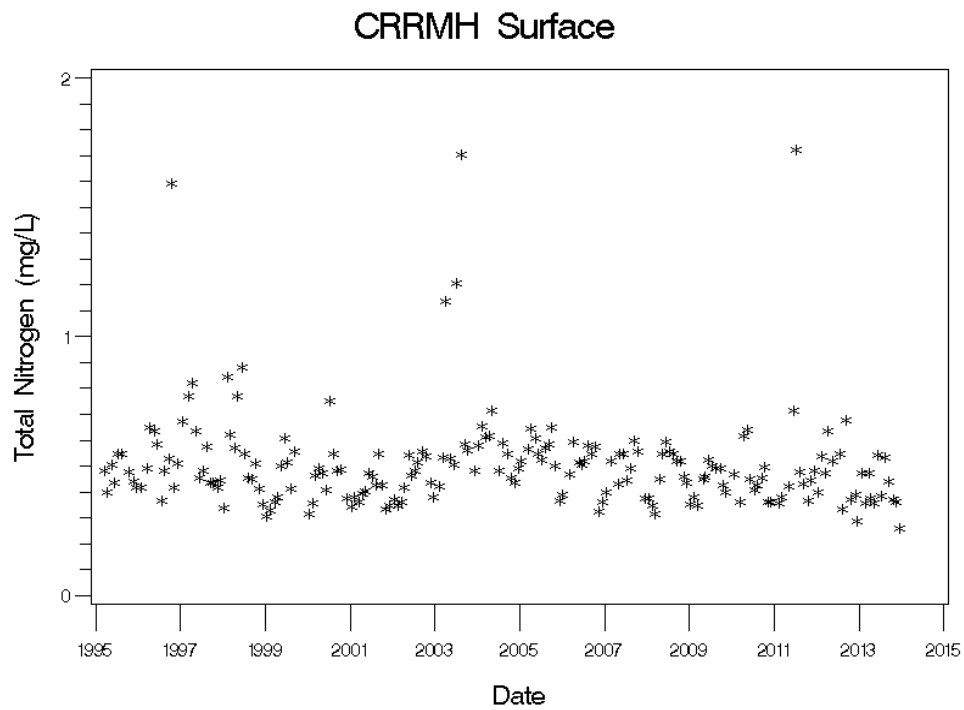
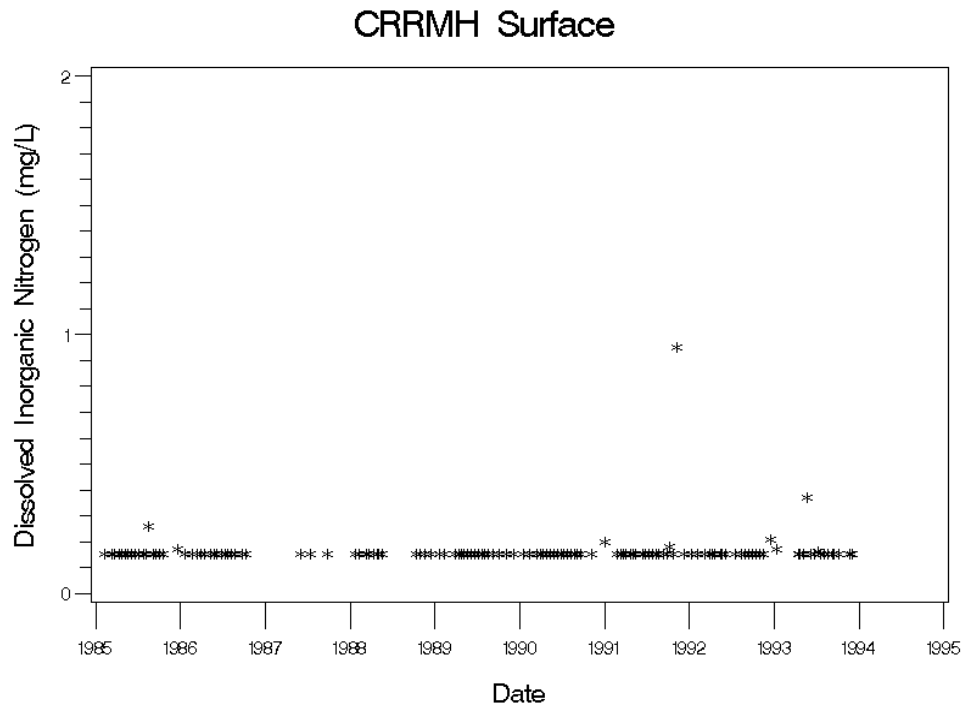


Figure 61. Scatterplots of surface total nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

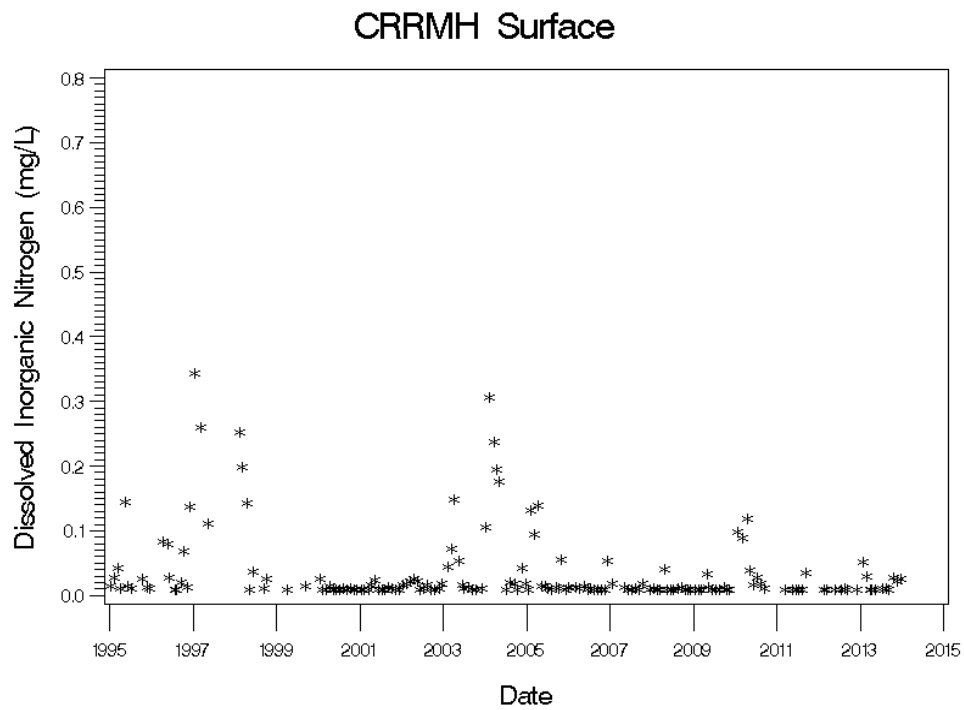
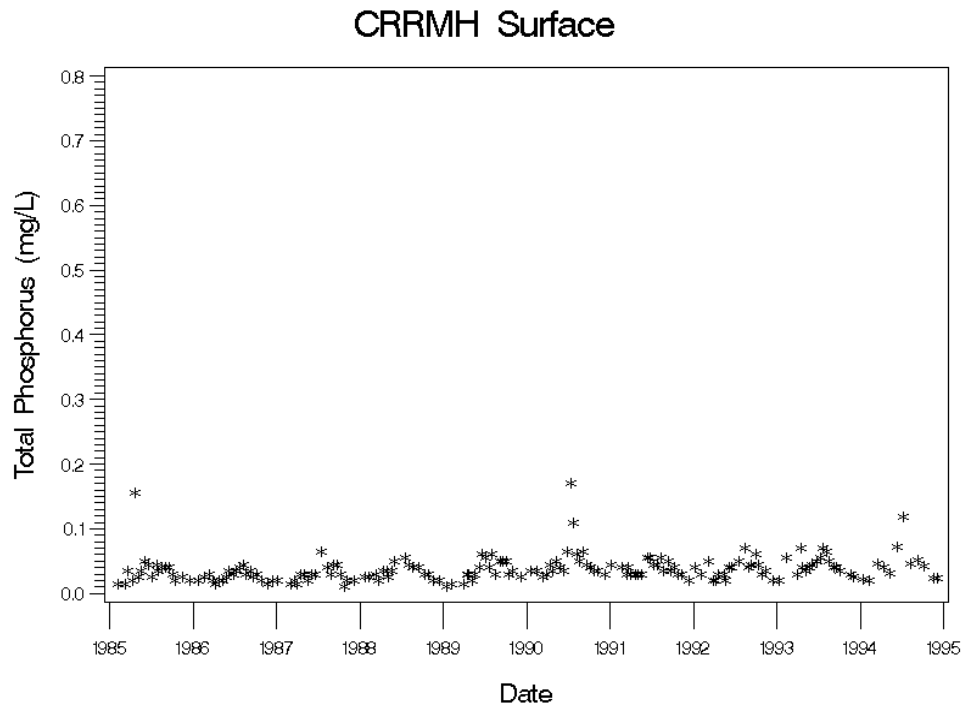


Figure 62. Scatterplots of surface dissolved inorganic nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

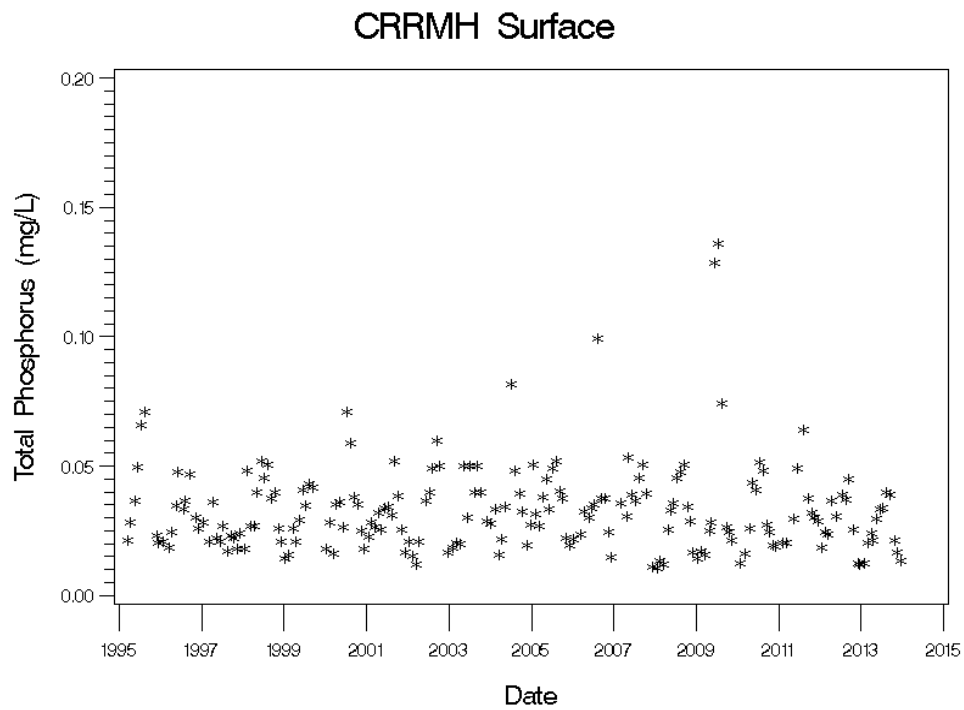
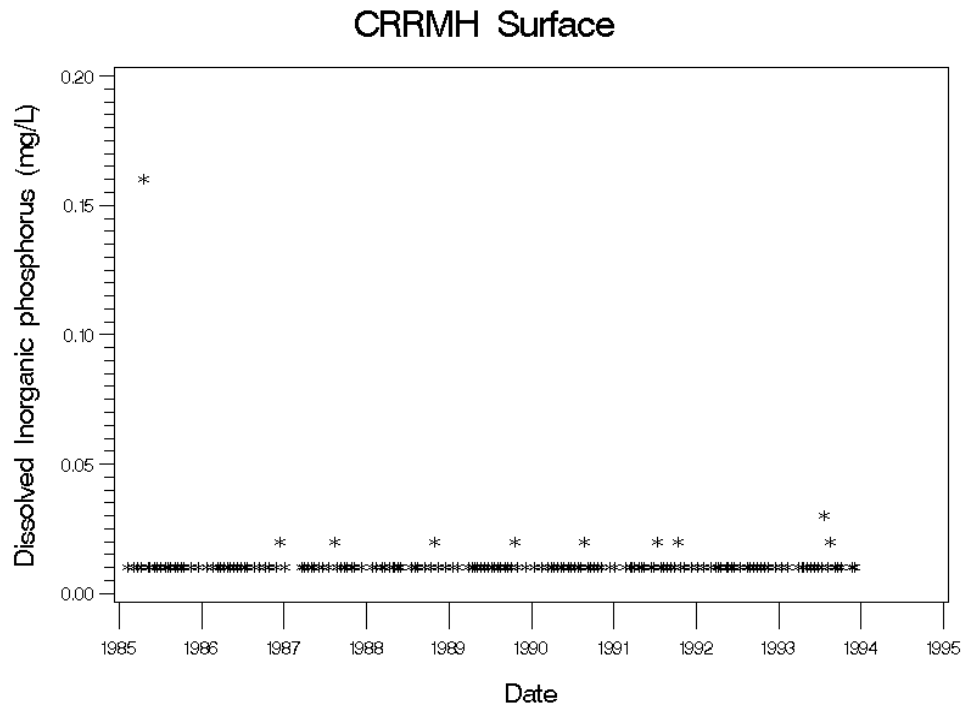


Figure 63. Scatterplots of surface total phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

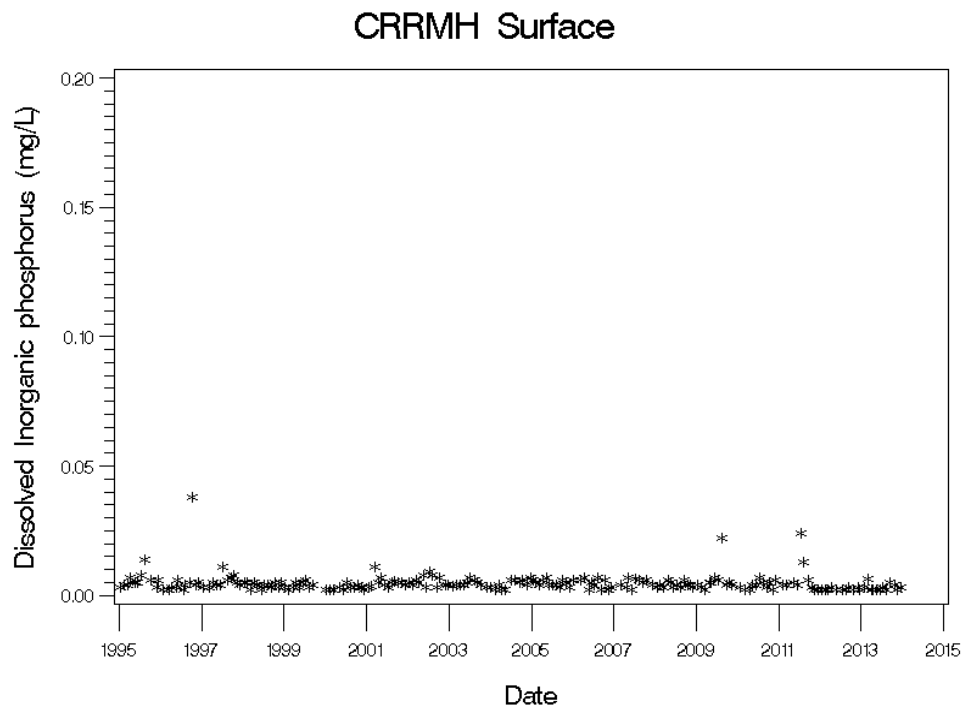


Figure 64. Scatterplots of surface dissolved inorganic phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

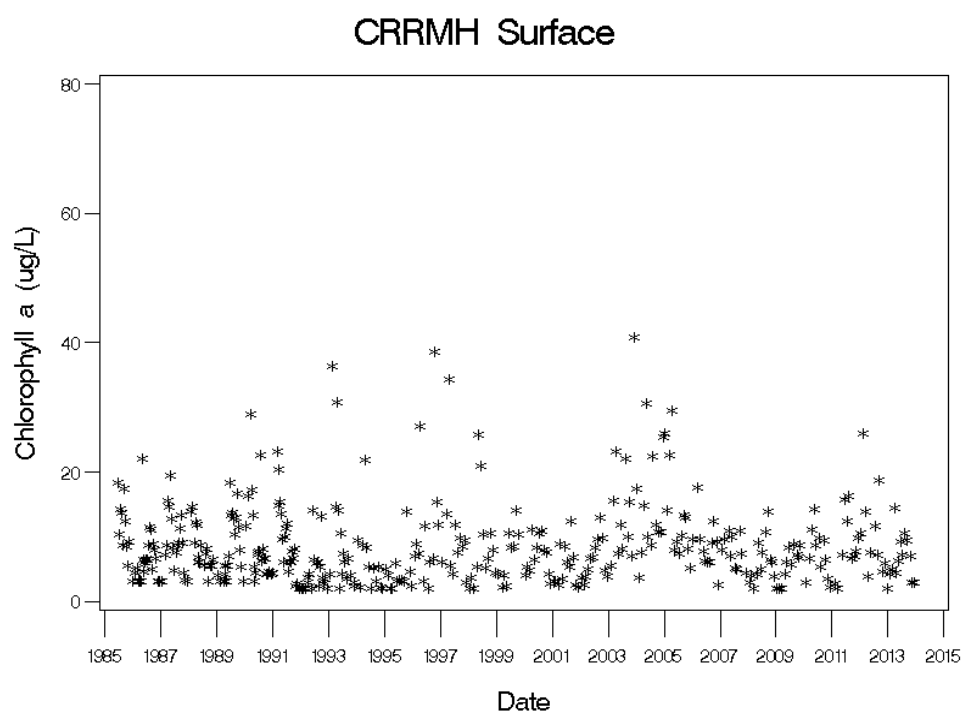


Figure 65. Scatterplot of surface chlorophyll a at segment CRRMH during the period 1985 to 2013.

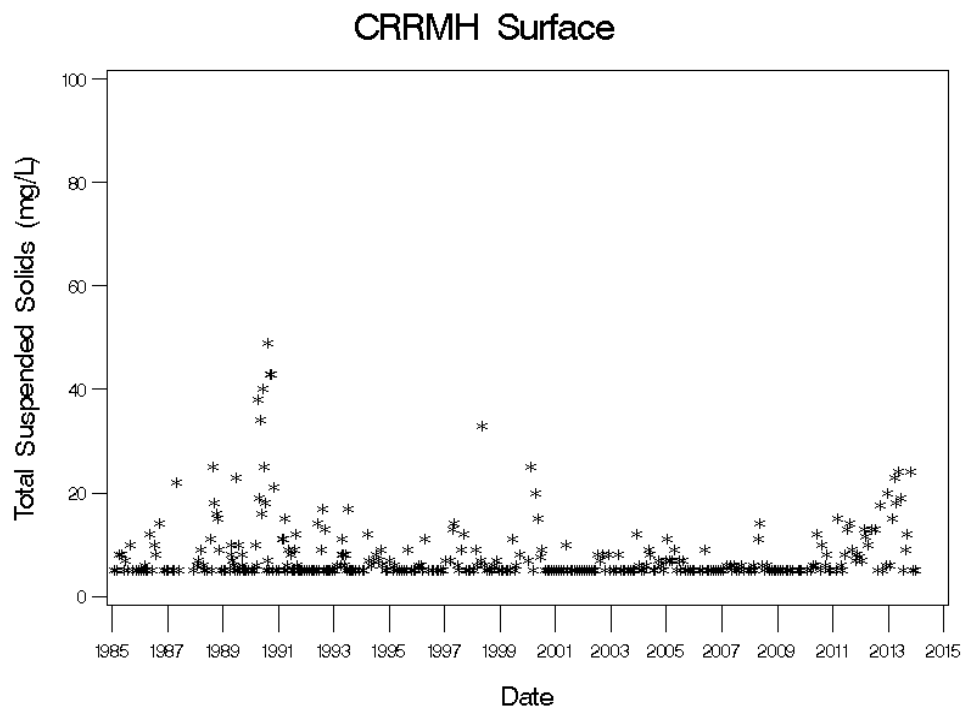


Figure 66. Scatterplot of surface total suspended solids at segment CRRMH during the period 1985 to 2013.

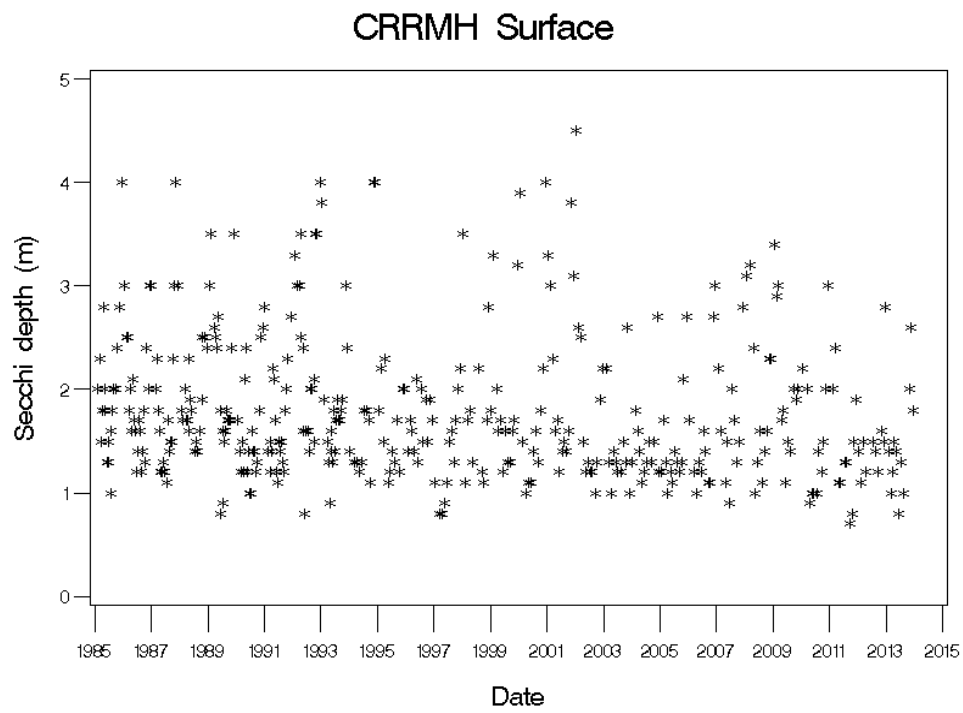


Figure 67. Scatterplot of secchi depth at segment CRRMH during the period 1985 to 2013.

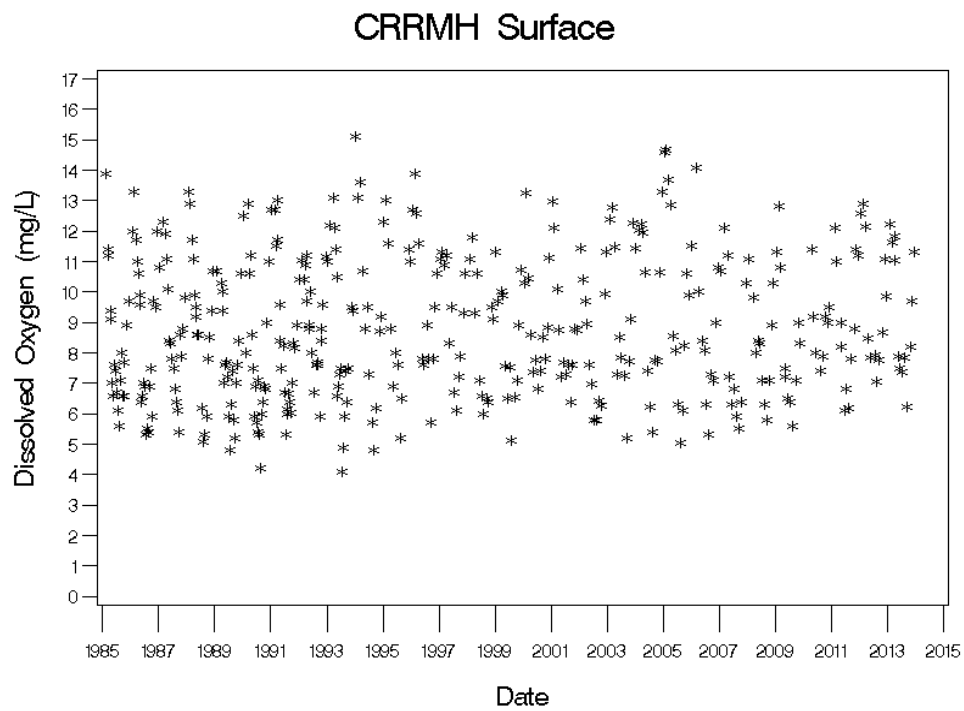


Figure 68. Scatterplot of surface dissolved oxygen at segment CRRMH during the period 1985 to 2013.

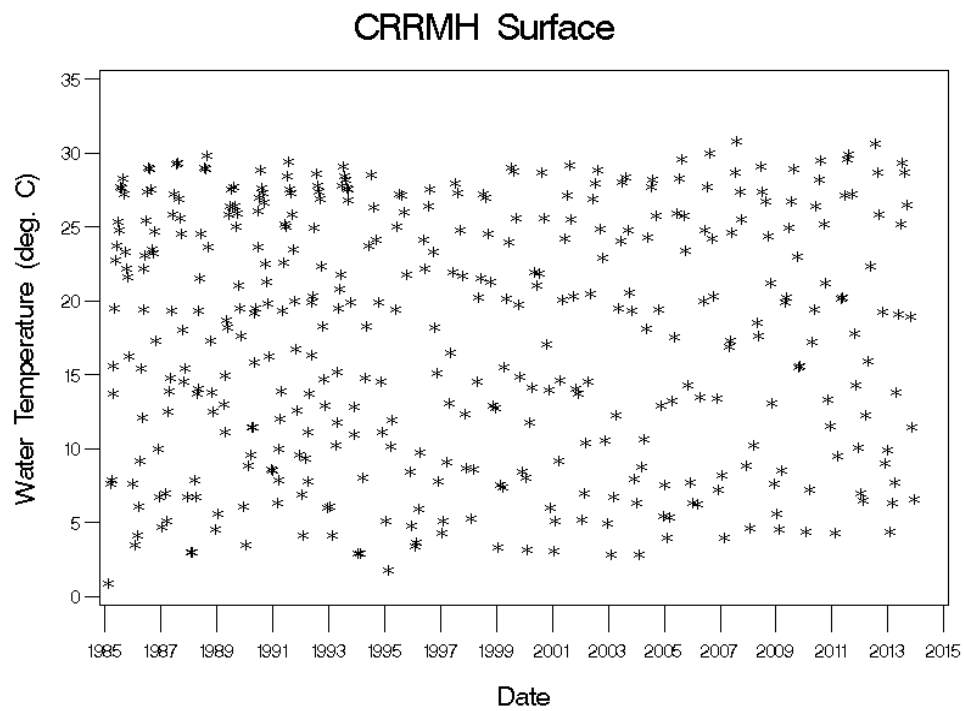


Figure 69. Scatterplot of surface water temperature at segment CRRMH during the period 1985 to 2013.

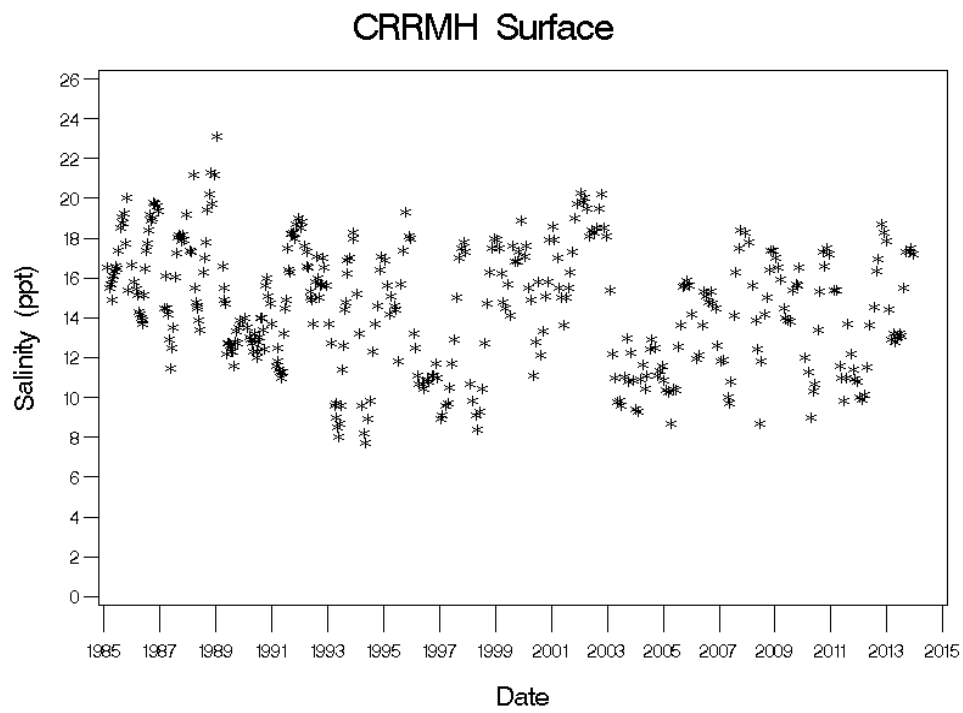


Figure 70. Scatterplot of surface salinity at segment CRRMH during the period 1985 to 2013.

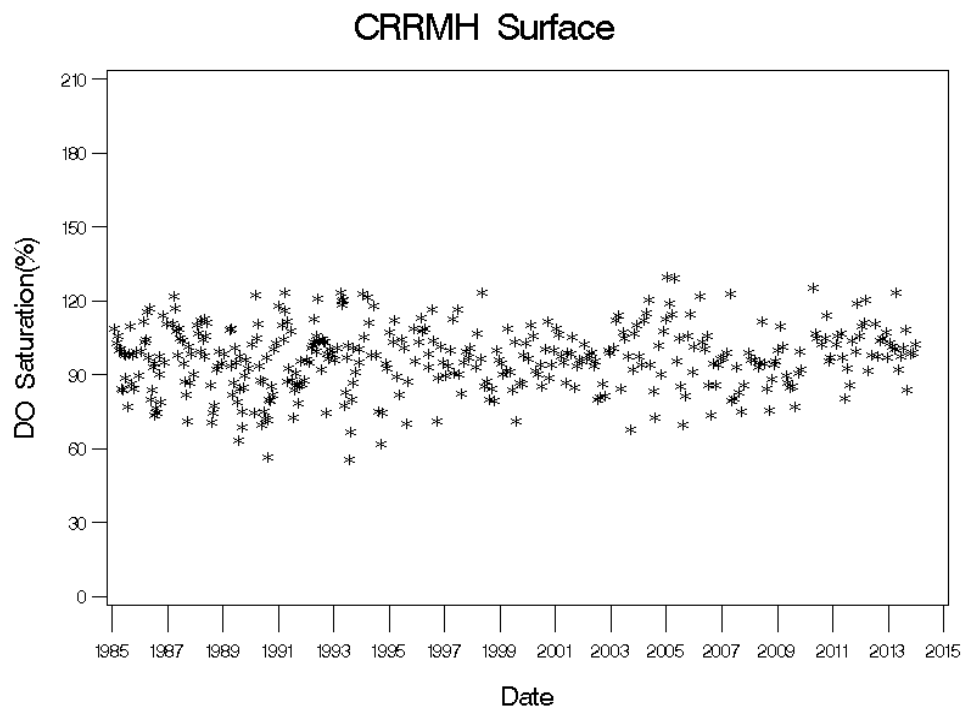
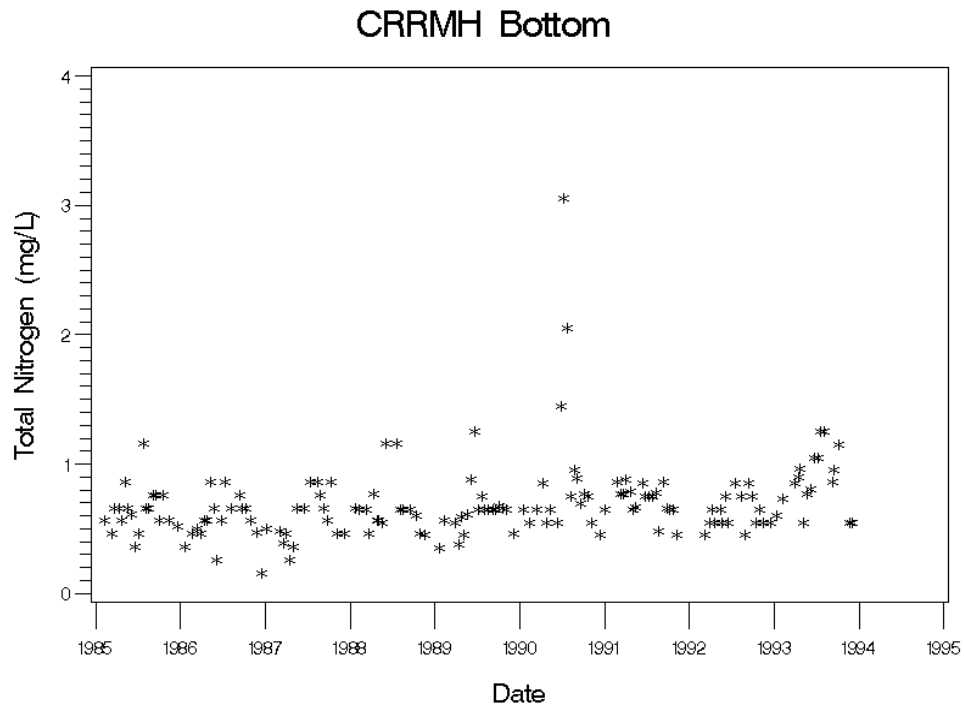


Figure 71. Scatterplot of surface DO saturation at segment CRRMH during the period 1985 to 2013.

a) Pre-method change period



b) Post-method change period

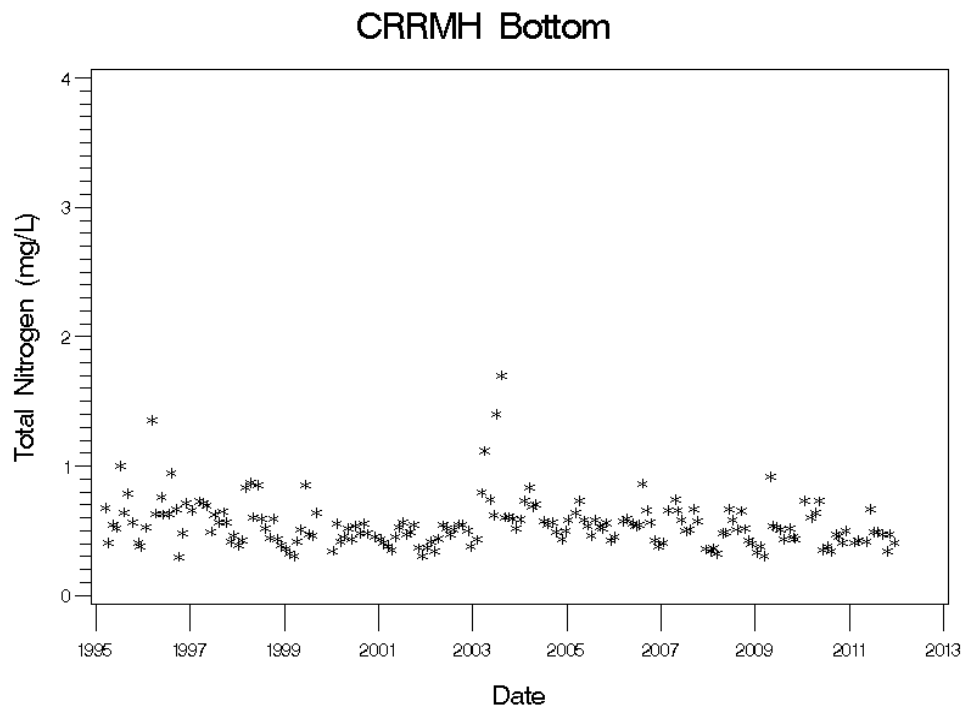
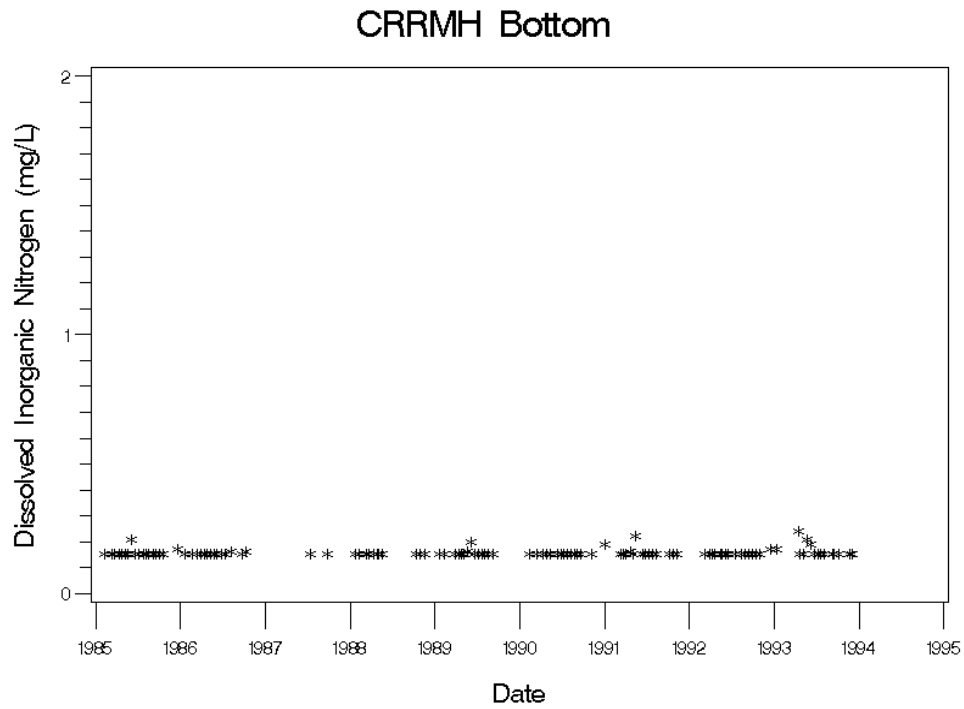


Figure 72. Scatterplots of bottom total nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

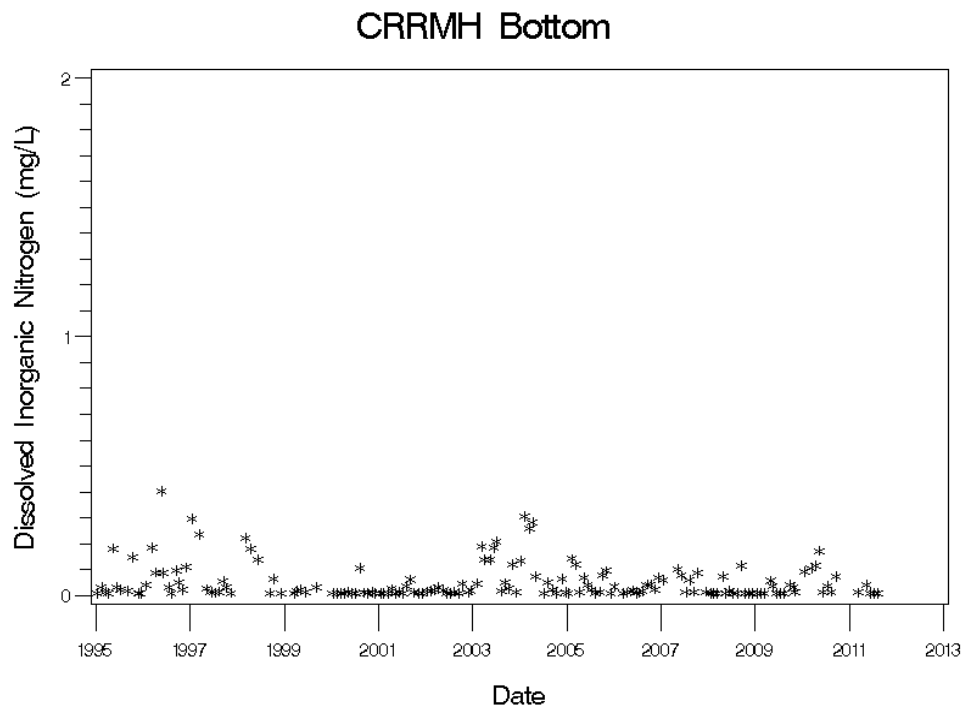
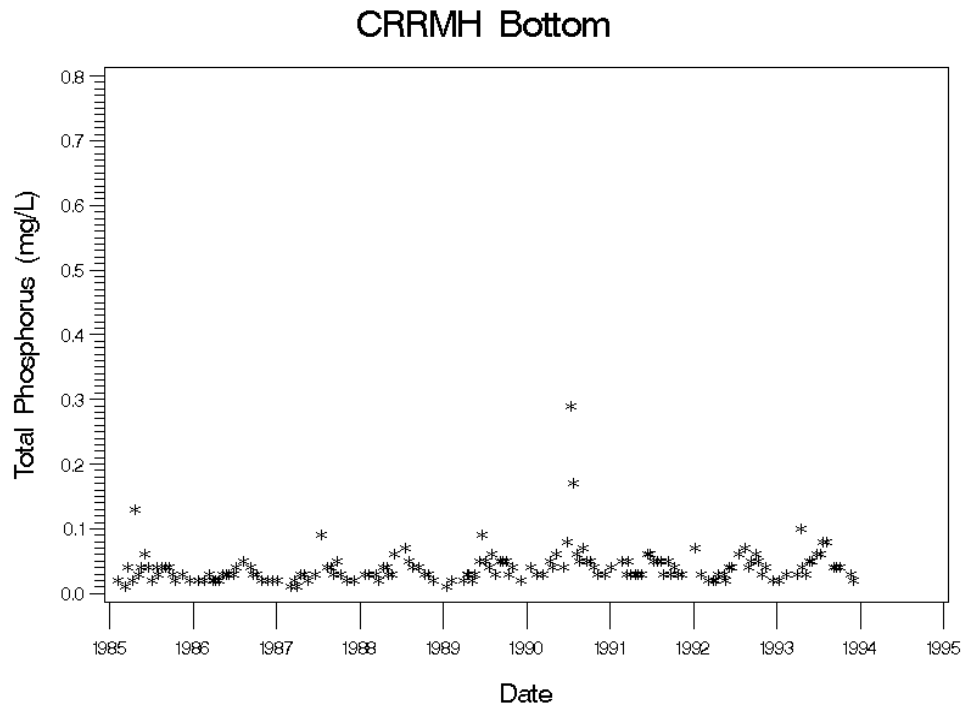


Figure 73. Scatterplots of bottom dissolved inorganic nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

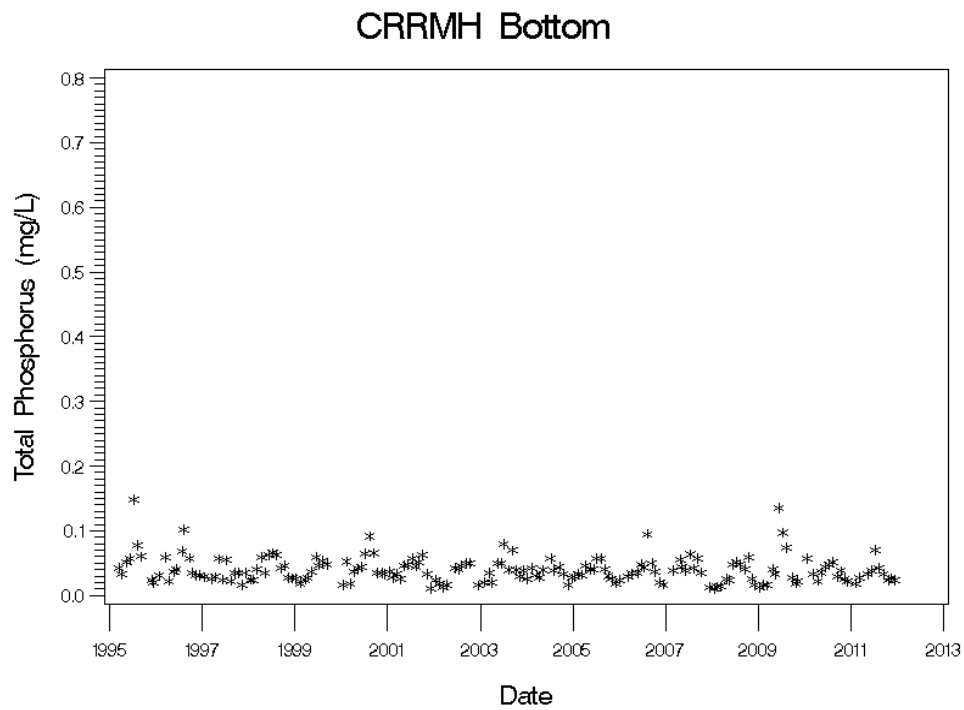
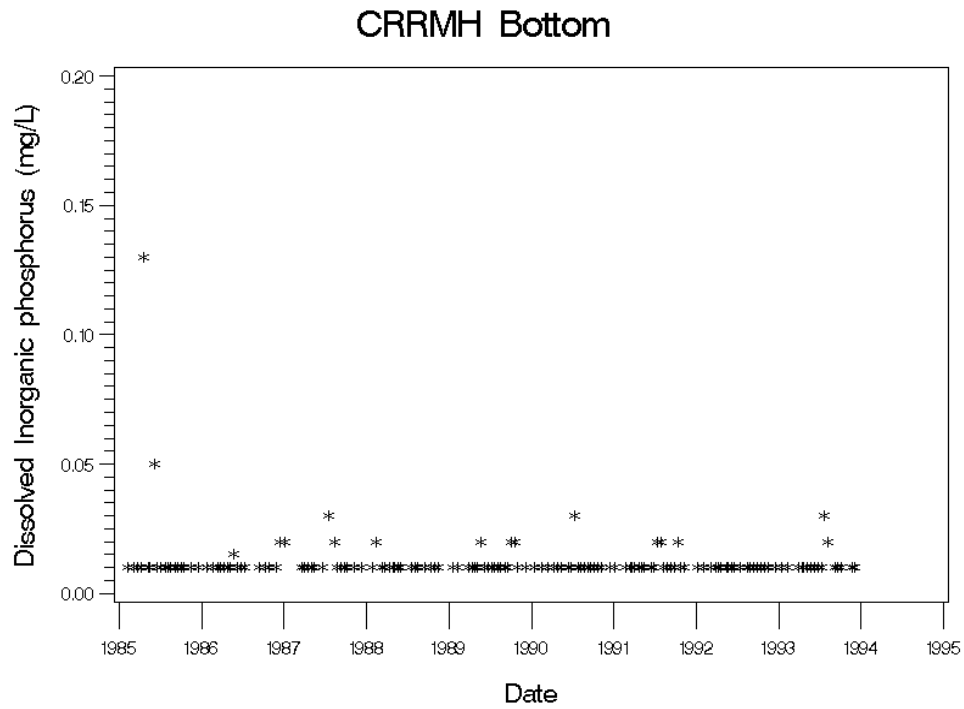


Figure 74. Scatterplots of bottom total phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

a) Pre-method change period



b) Post-method change period

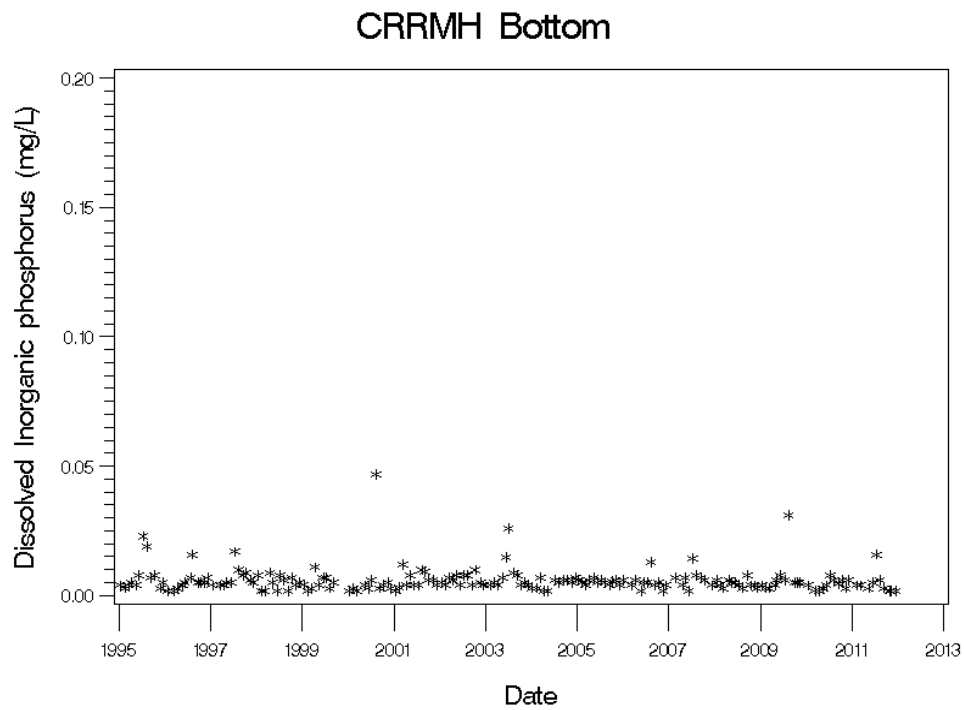


Figure 75. Scatterplots of bottom dissolved inorganic phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2013) periods.

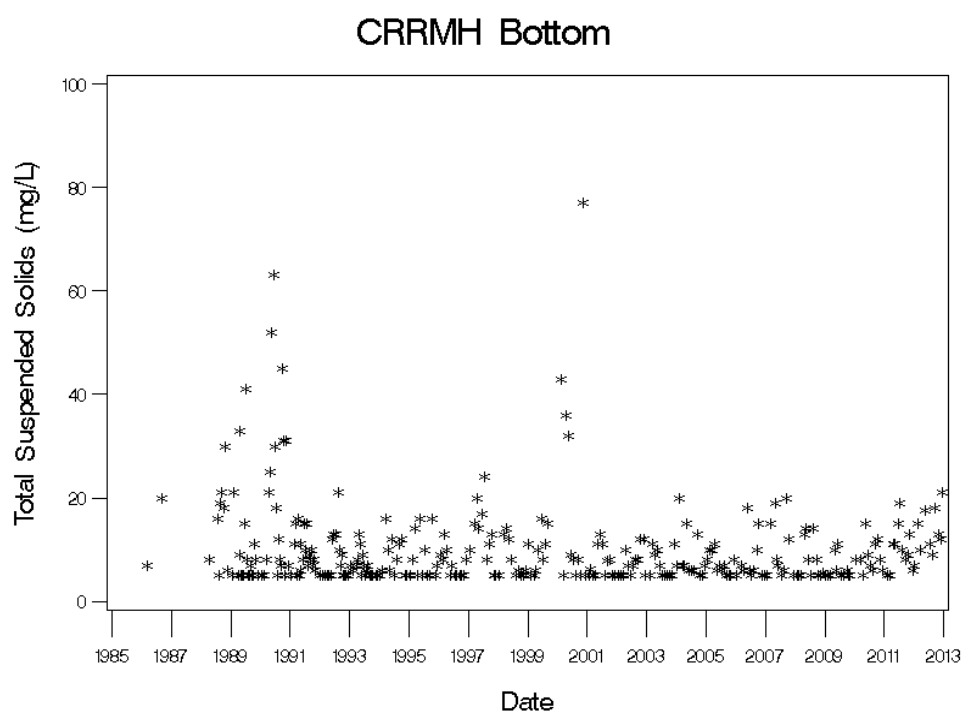


Figure 76. Scatterplot of bottom total suspended solids at segment CRRMH during the period 1985 to 2013.

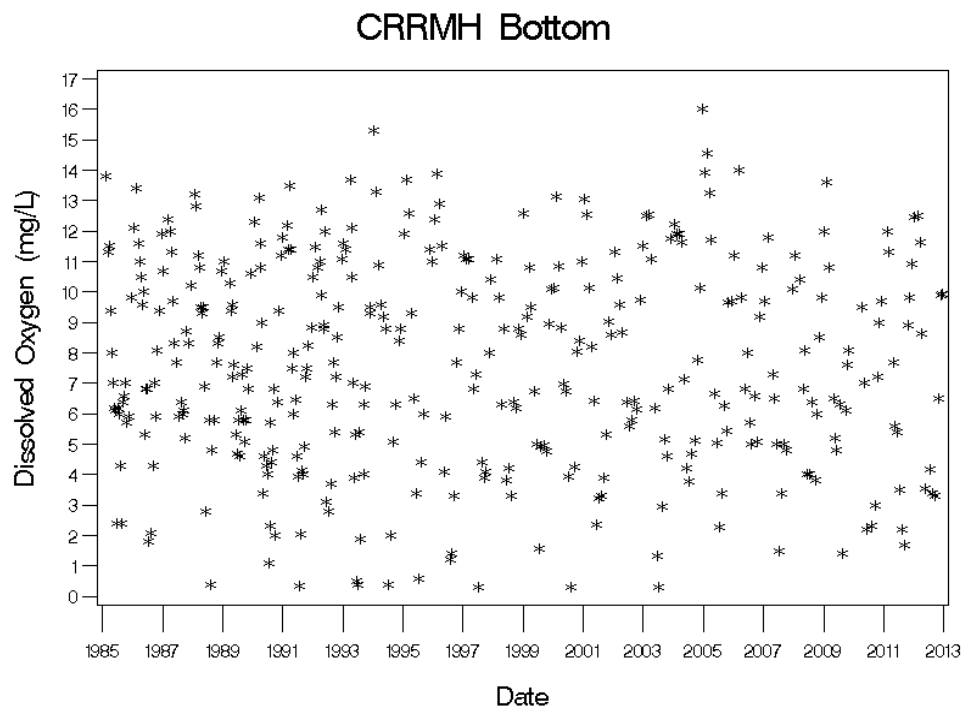


Figure 77. Scatterplot of bottom dissolved oxygen at segment CRRMH during the period 1985 to 2013.

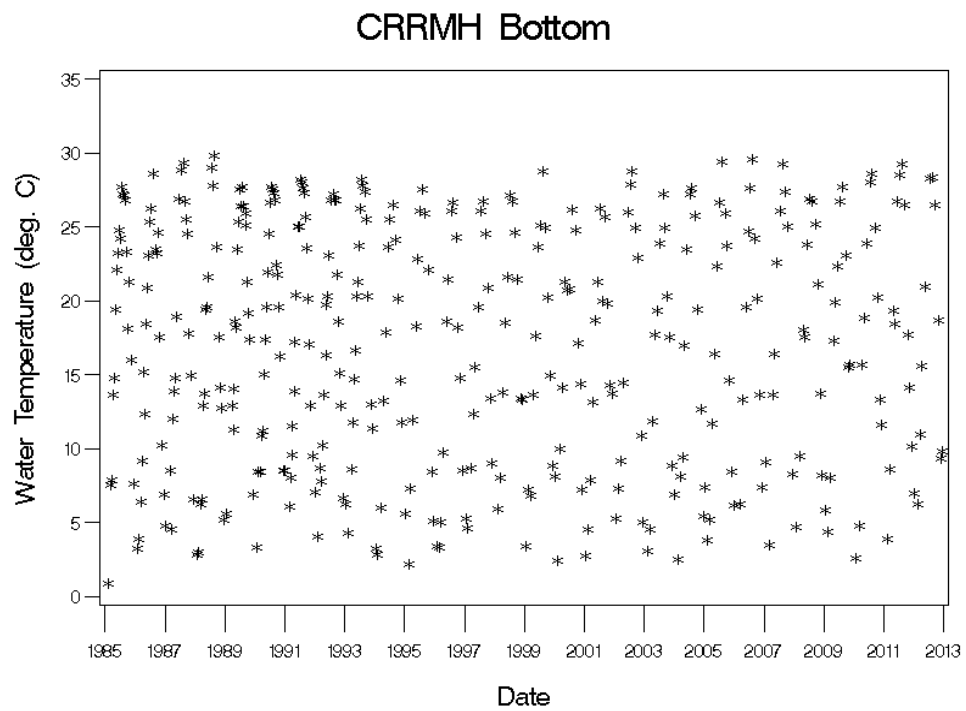


Figure 78. Scatterplot of bottom water temperature at segment CRRMH during the period 1985 to 2013.

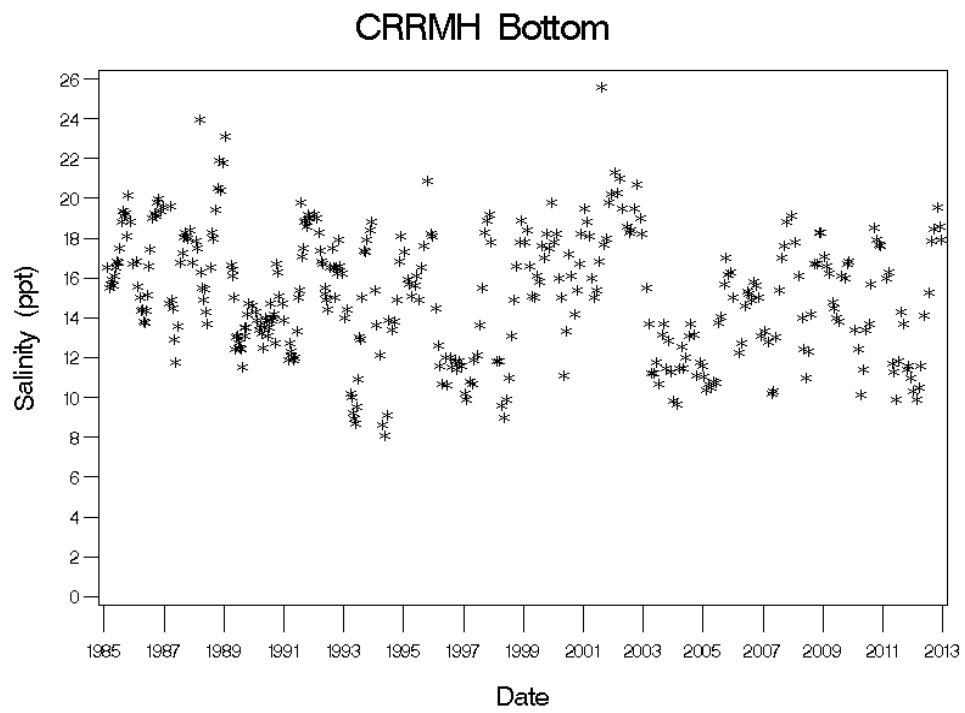


Figure 79. Scatterplot of bottom salinity at segment CRRMH during the period 1985 to 2013.

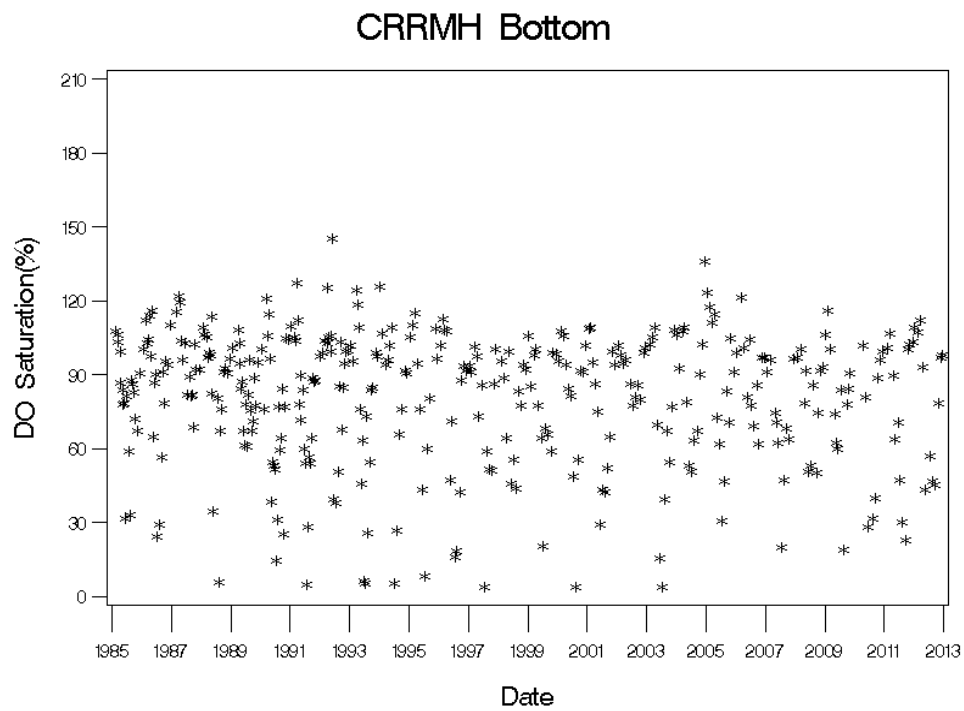


Figure 80. Scatterplot of bottom DO saturation at segment CRRMH during the period 1985 to 2013.