

Appendix B – Scatterplots of Water Quality Parameters

Section IV - Rappahannock River

List of Figures

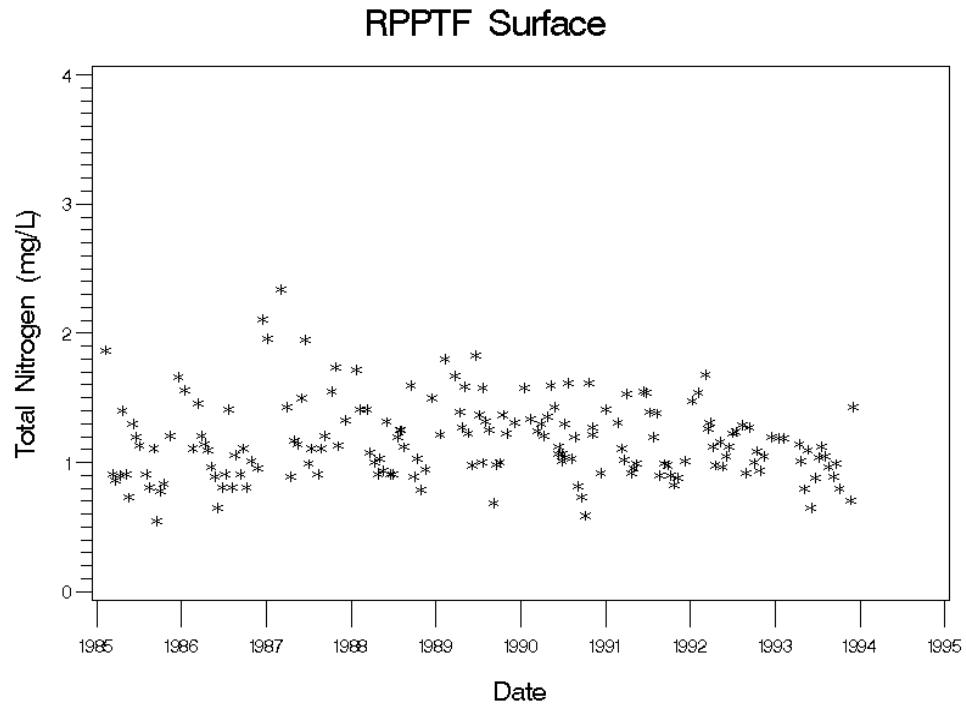
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a) Pre-method change period



b) Post-method change period

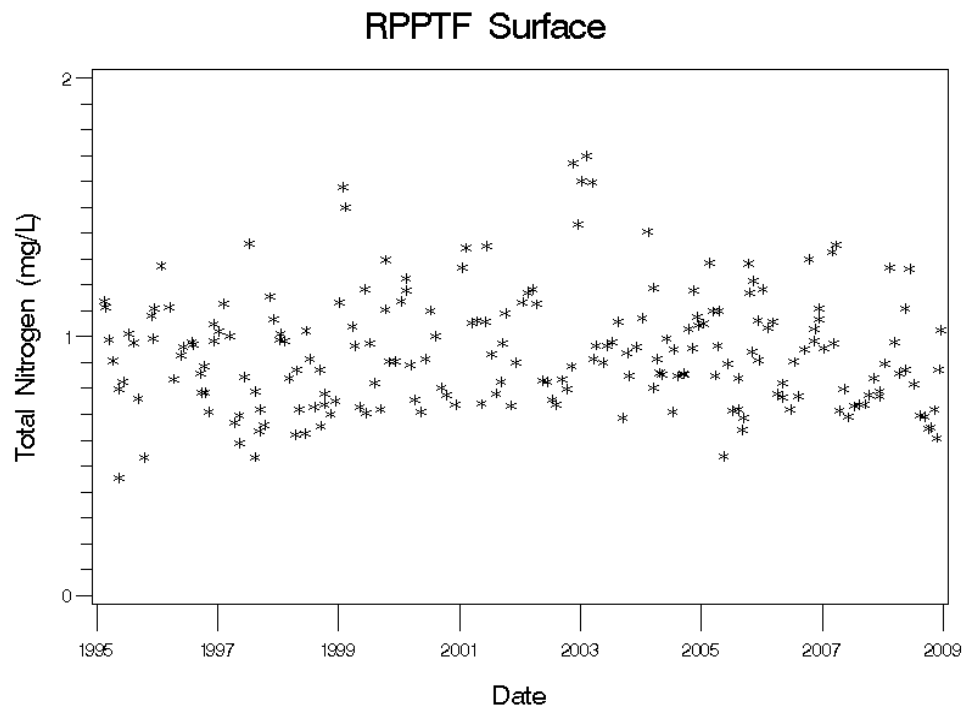
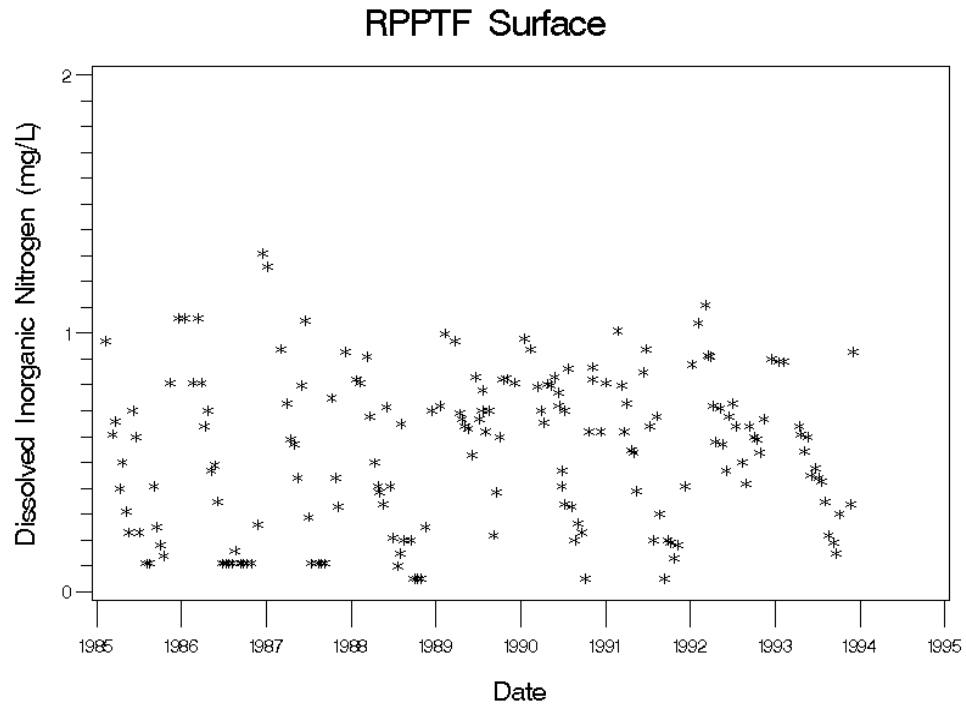


Figure 1. Scatterplots of surface total nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

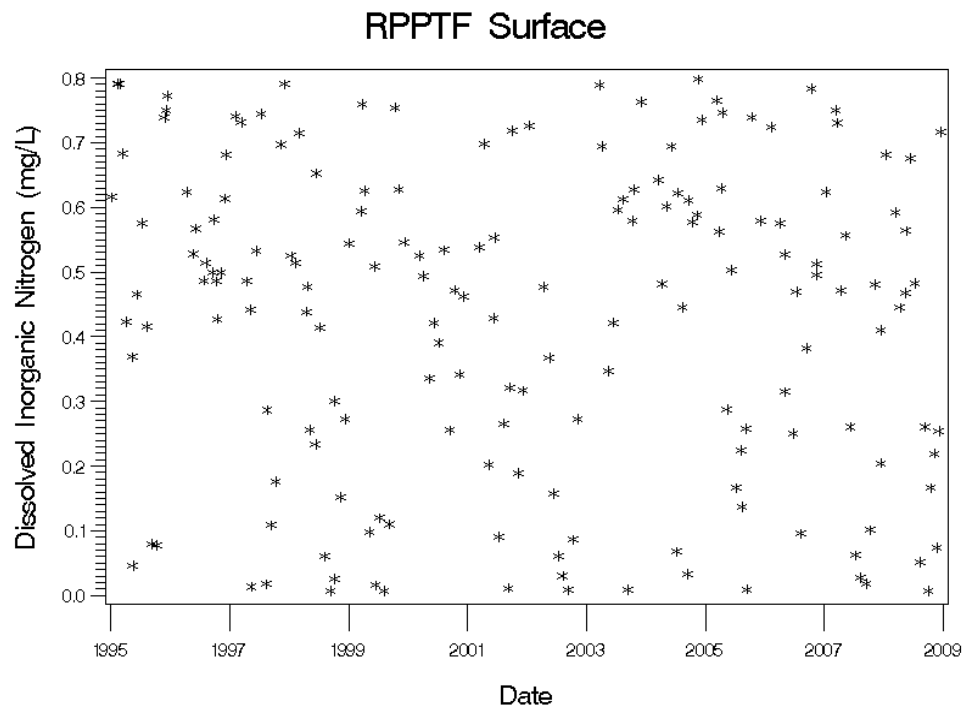
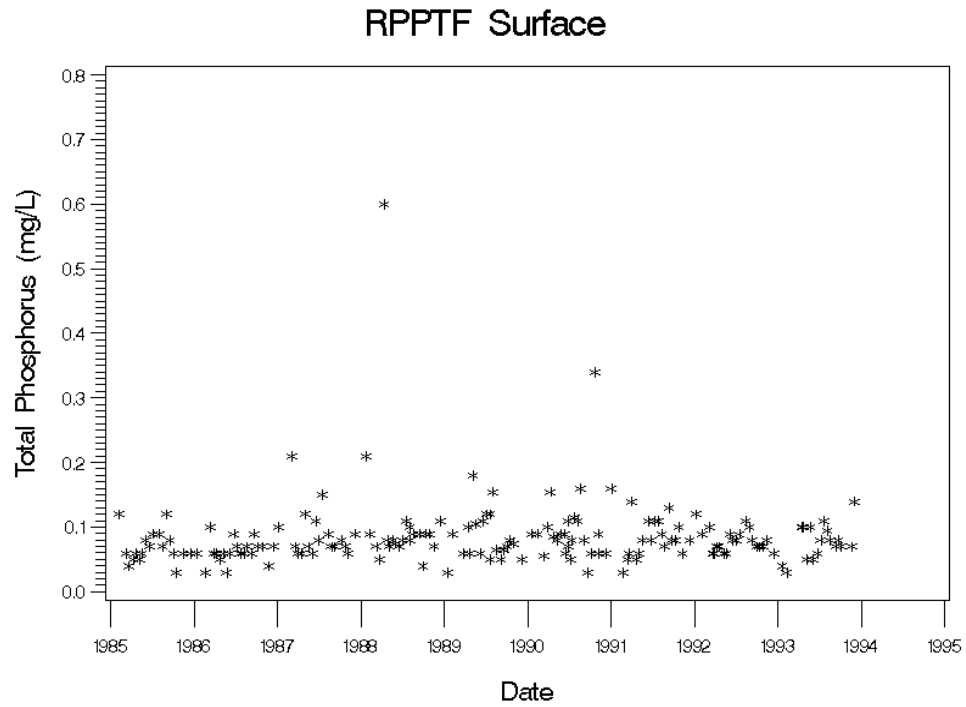


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

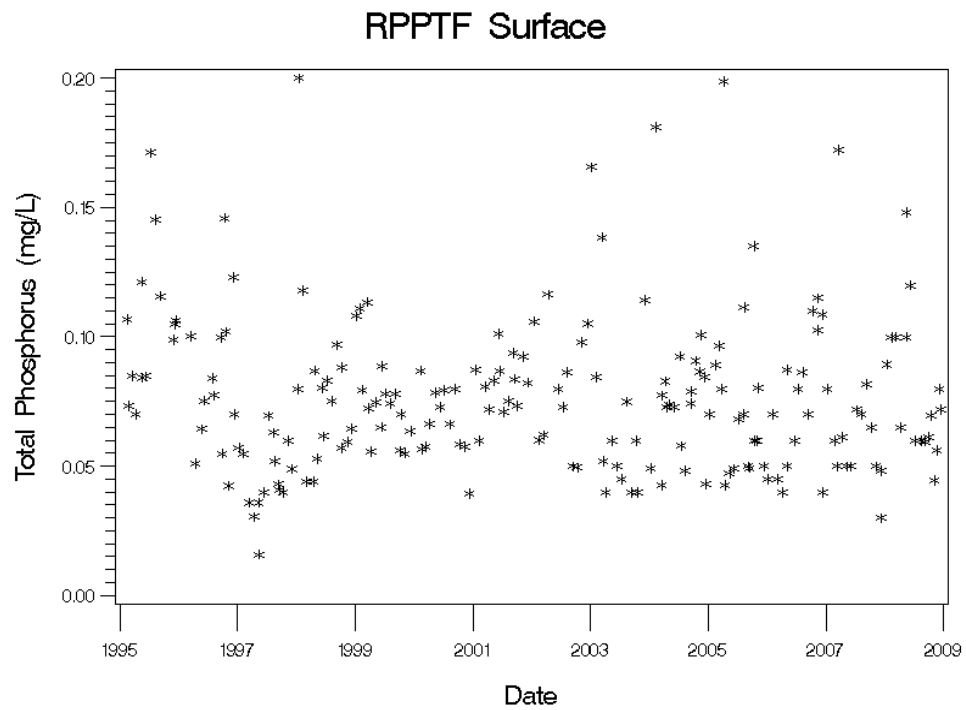
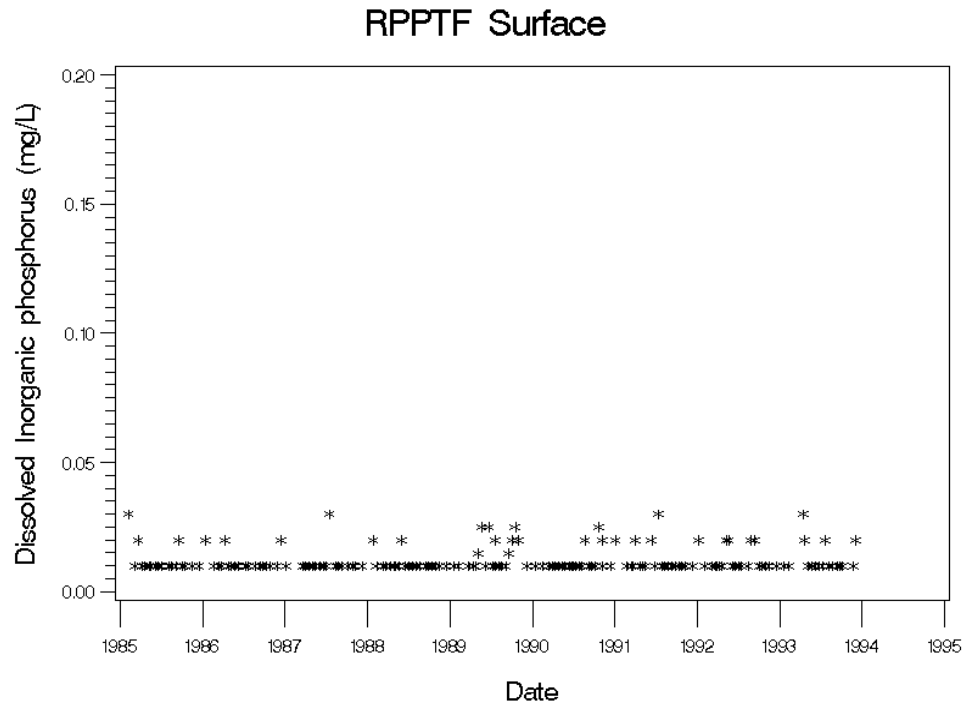


Figure 3. Scatterplots of surface total phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

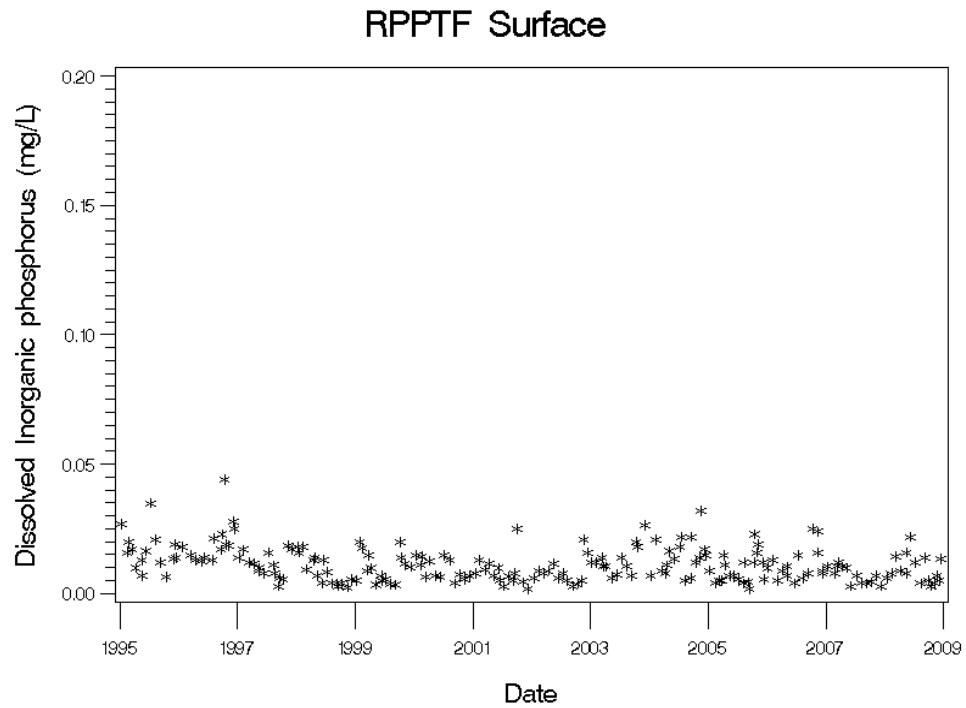


Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

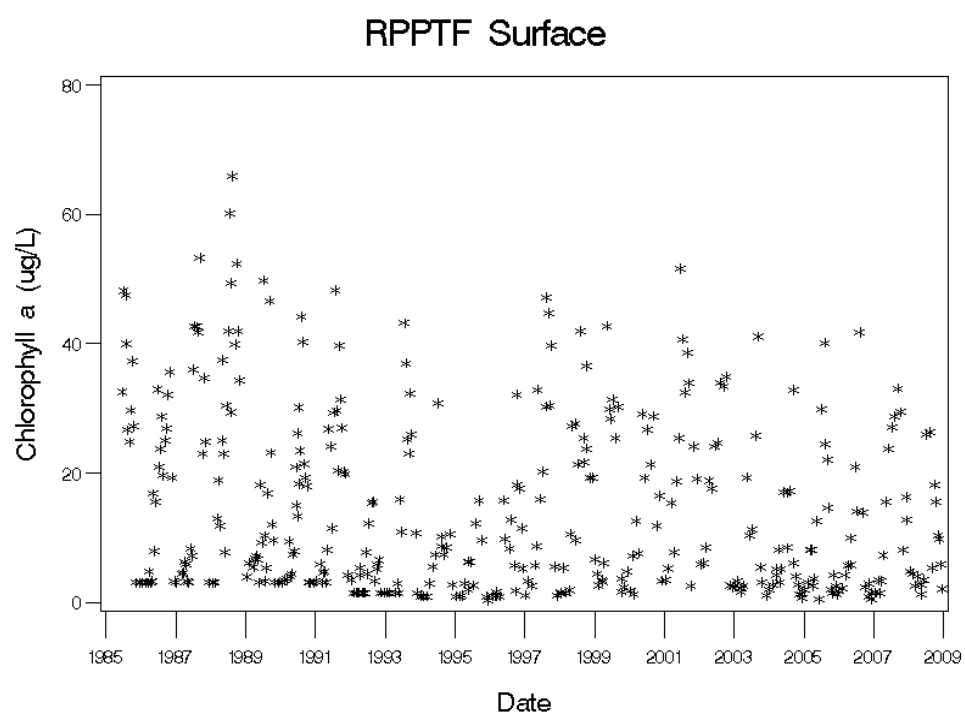


Figure 5. Scatterplot of surface chlorophyll a at segment RPPTF during the period 1985 to 2008.

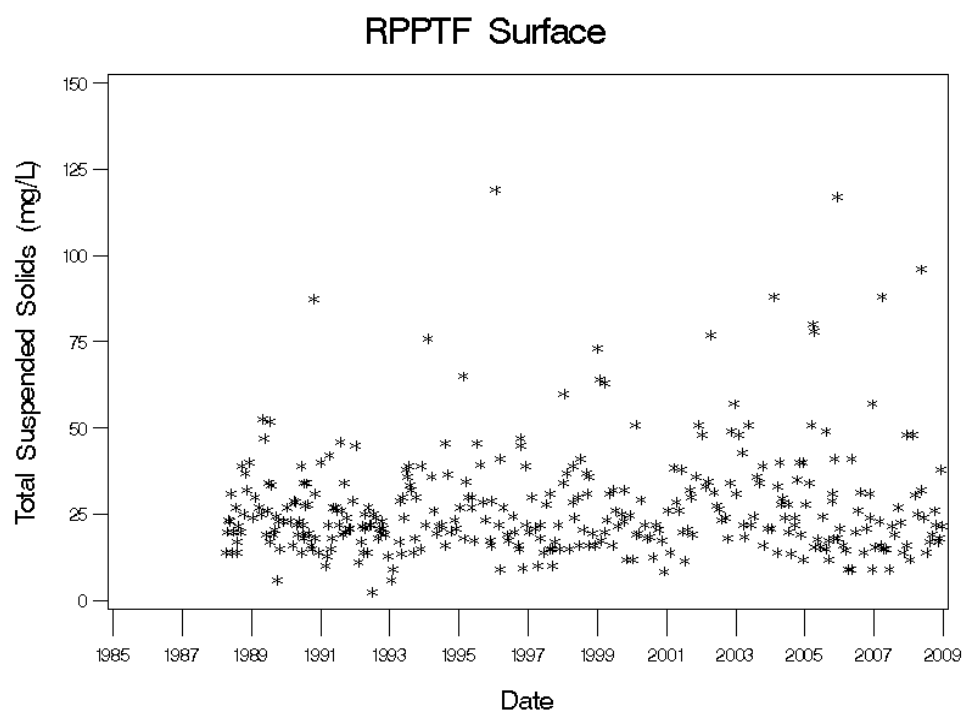


Figure 6. Scatterplot of surface total suspended solids at segment RPPTF during the period 1985 to 2008.

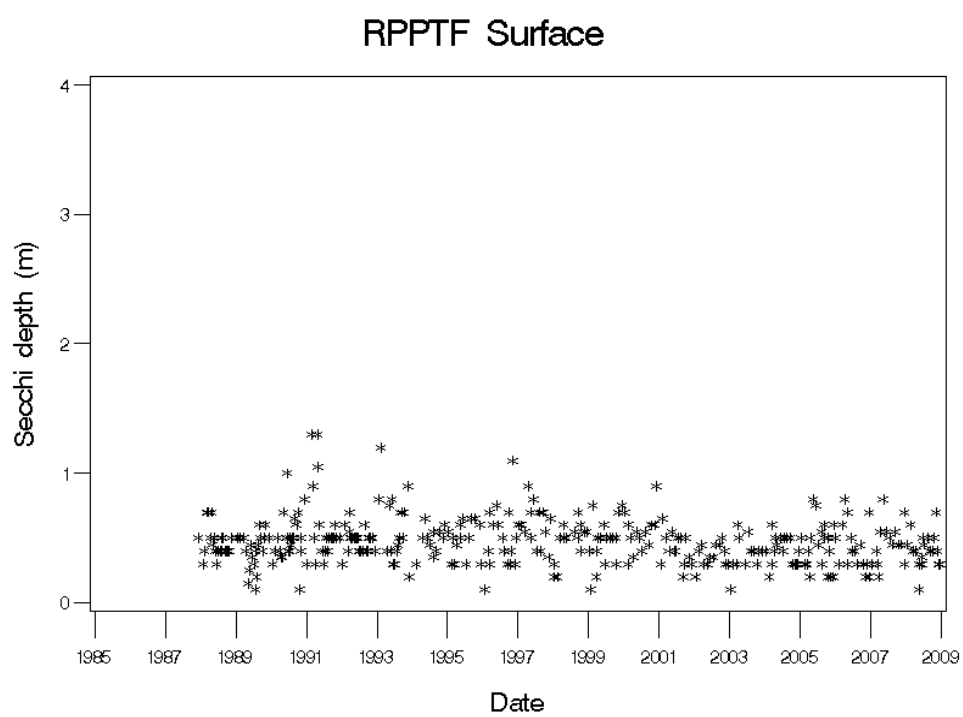


Figure 7. Scatterplot of secchi depth at segment RPPTF during the period 1985 to 2008.

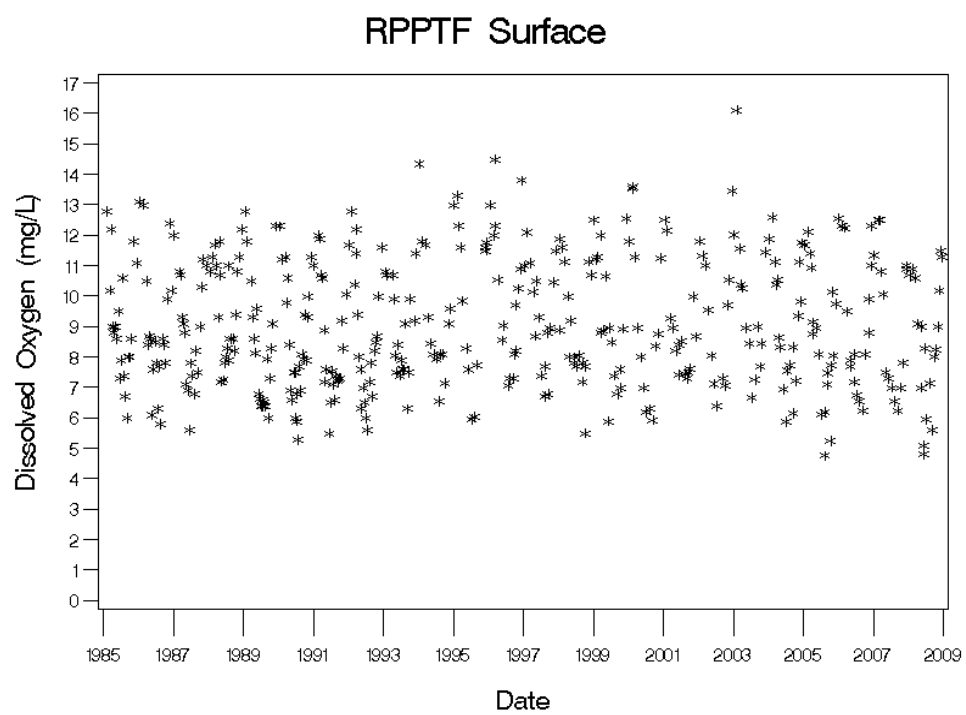


Figure 8. Scatterplot of surface dissolved oxygen at segment RPPTF during the period 1985 to 2008.

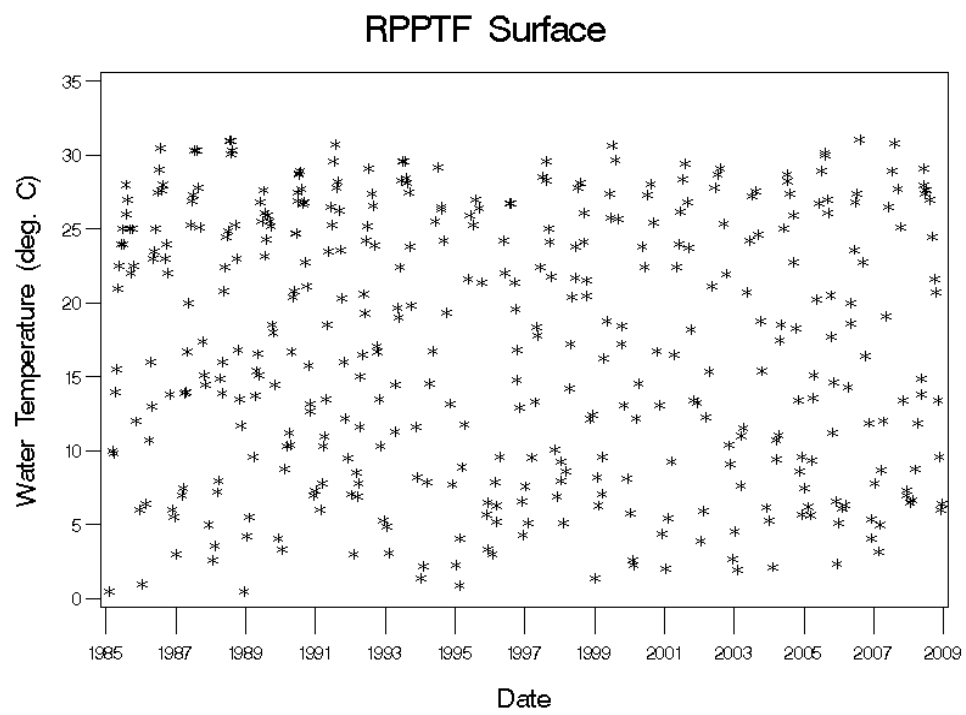


Figure 9. Scatterplot of surface water temperature at segment RPPTF during the period 1985 to 2008.

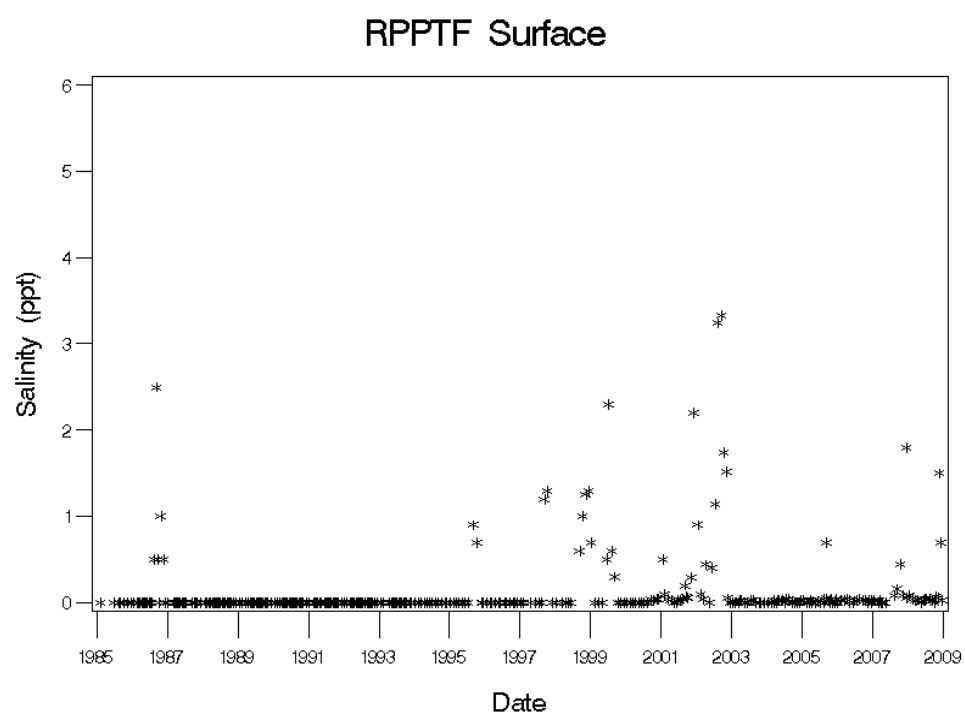
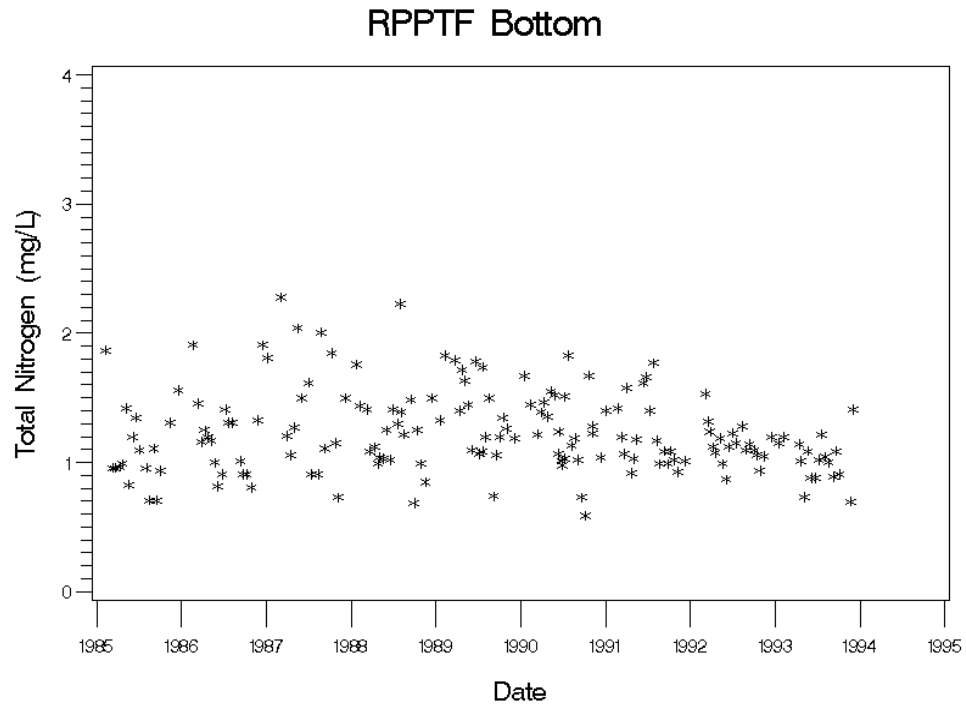


Figure 10. Scatterplot of surface salinity at segment RPPTF during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

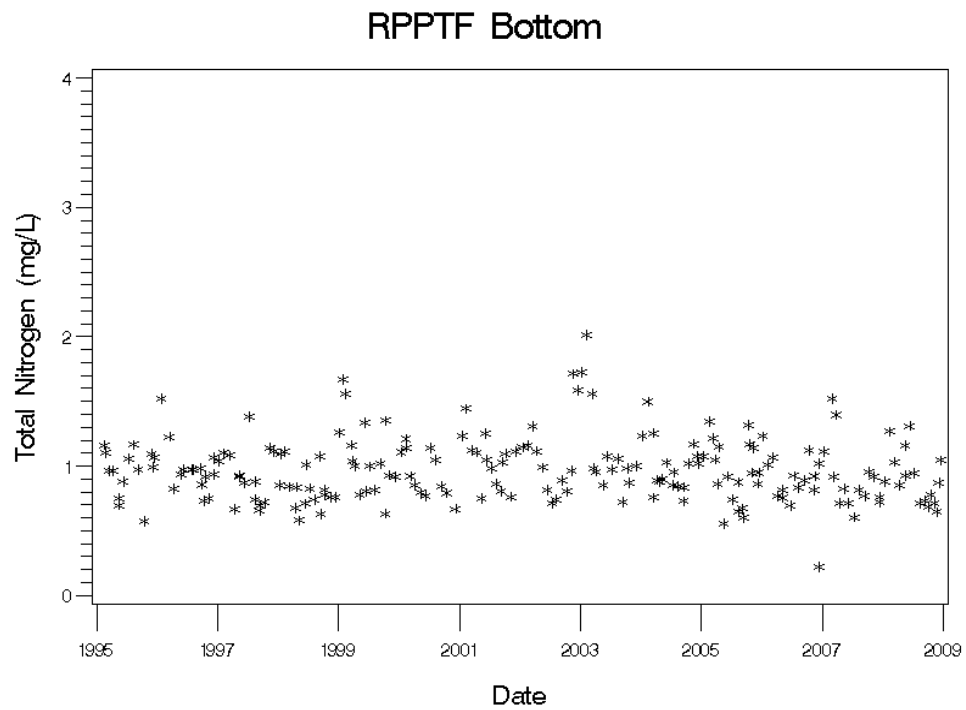
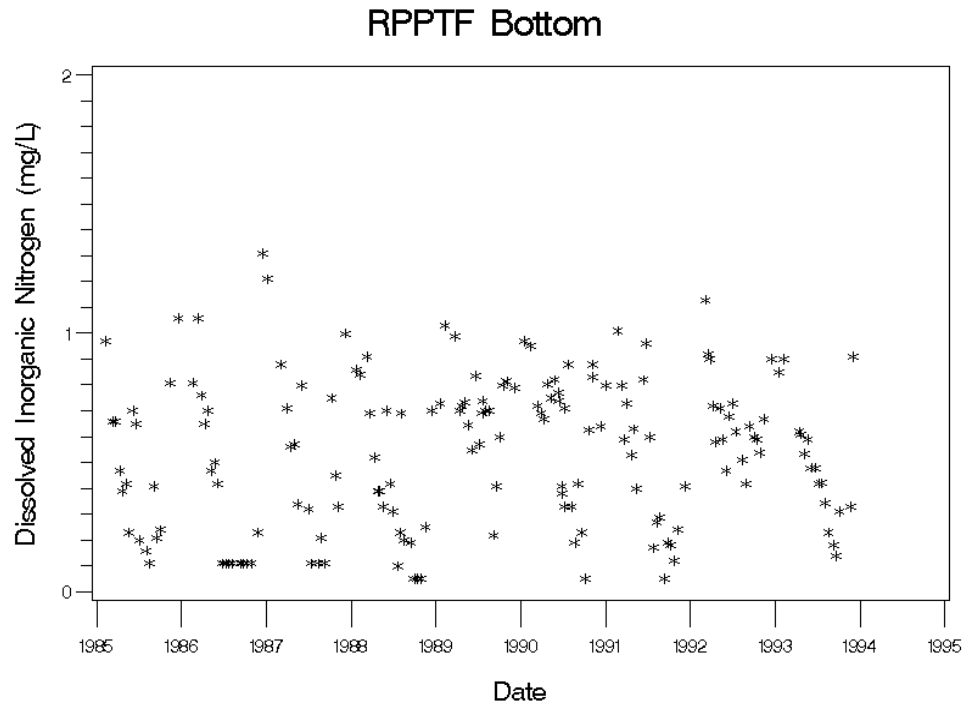


Figure 11. Scatterplots of bottom total nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

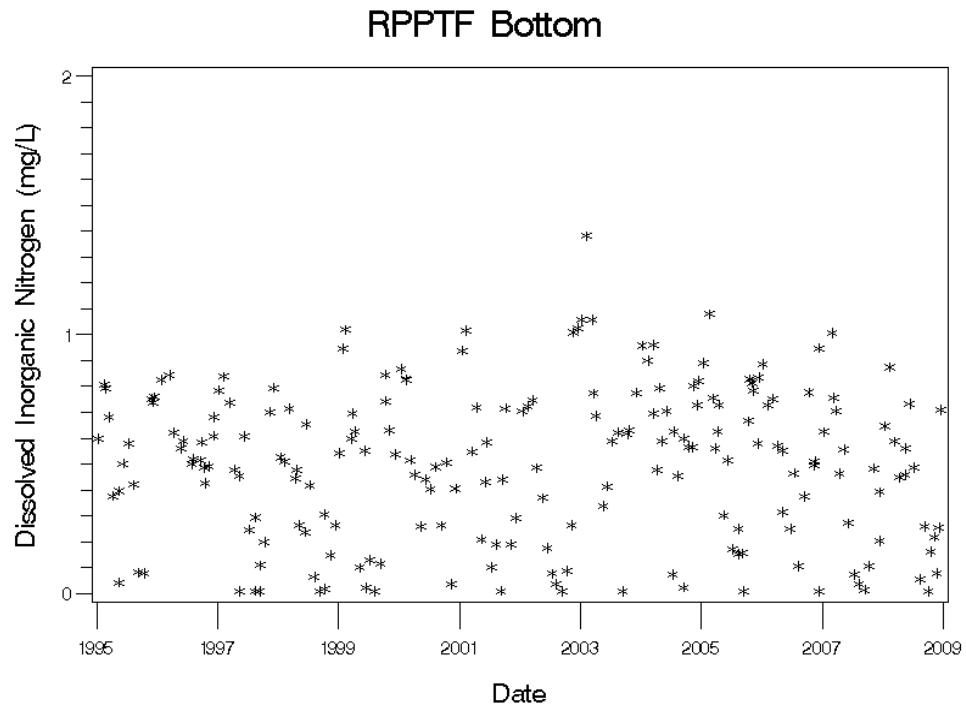
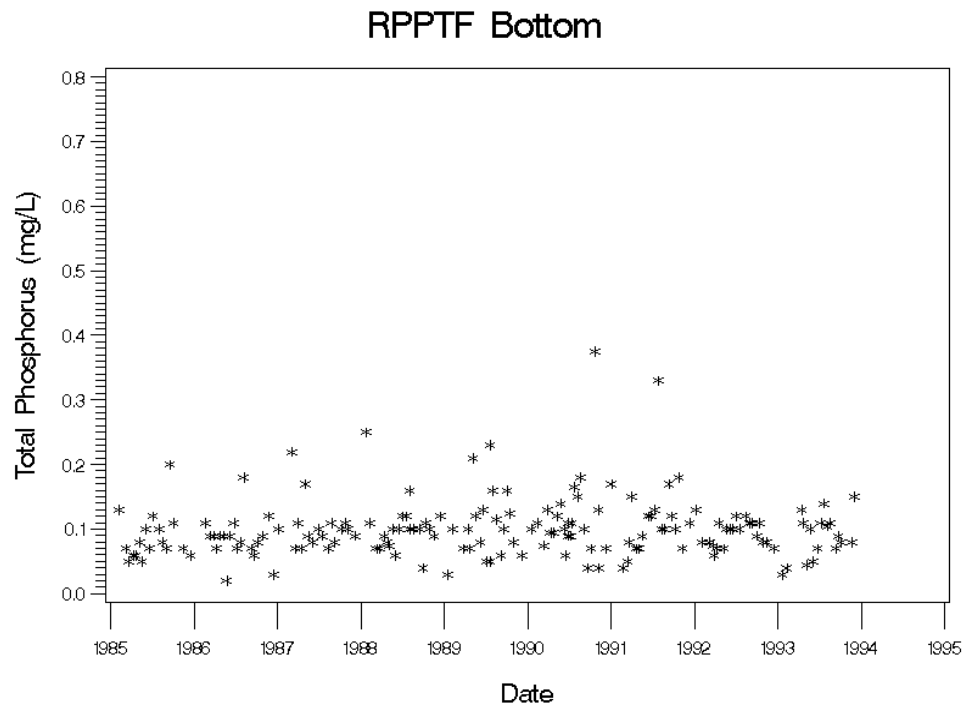


Figure 12. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

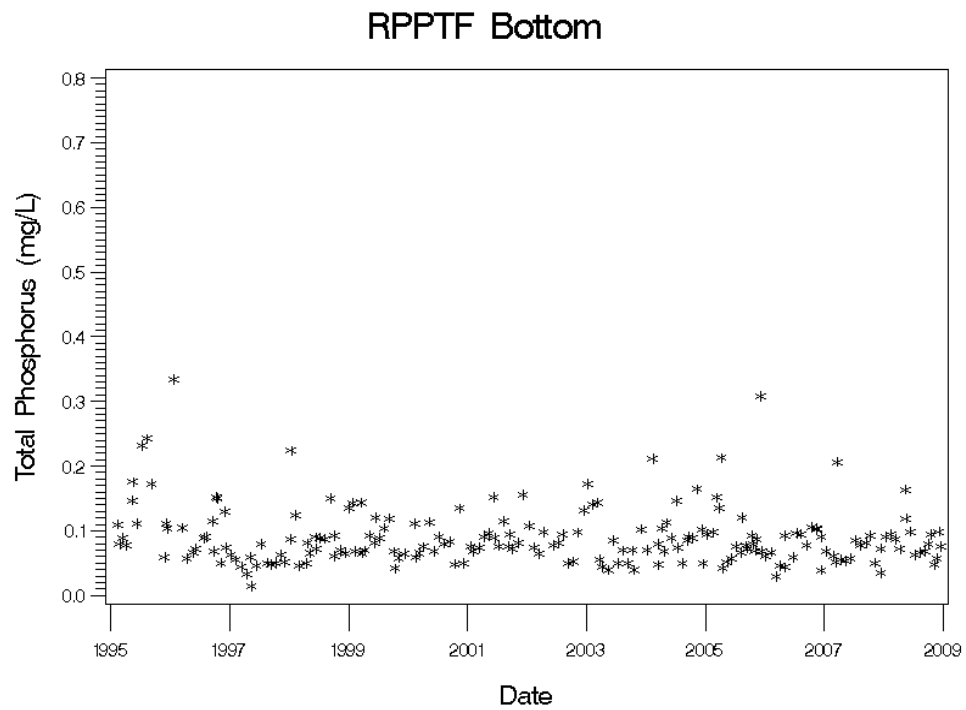
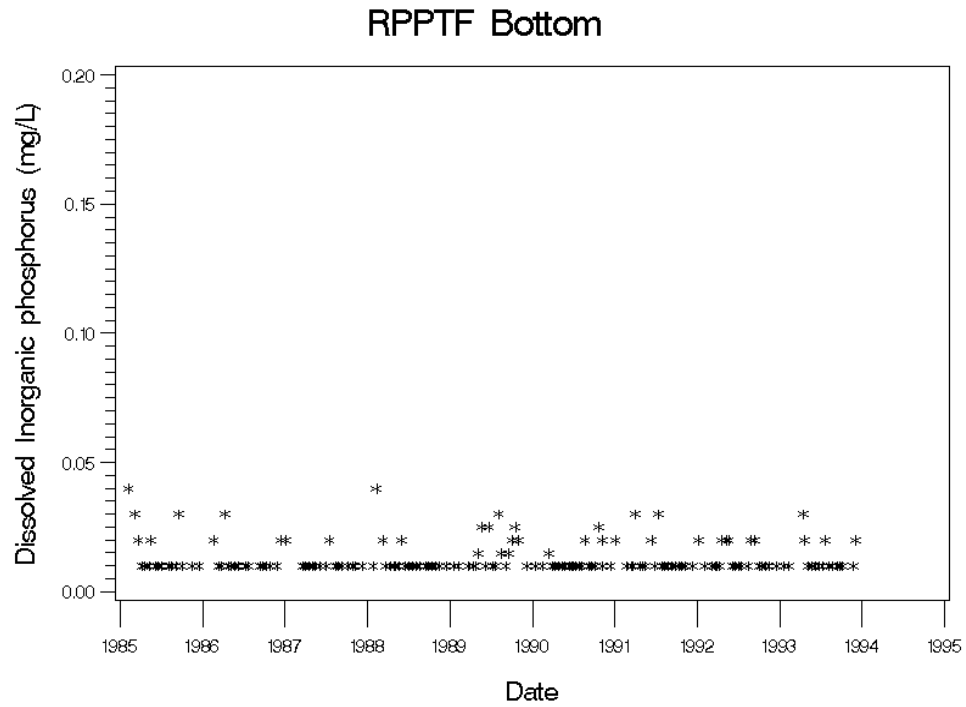


Figure 13. Scatterplots of bottom total phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

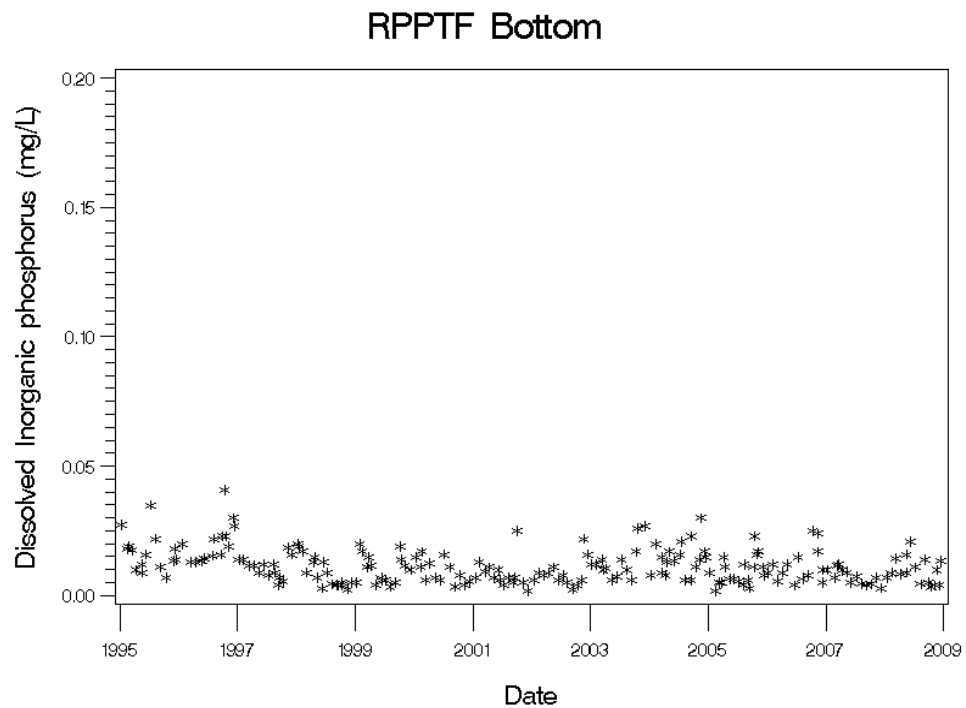


Figure 14. Scatterplots of bottom dissolved inorganic phosphorus at segment RPPTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

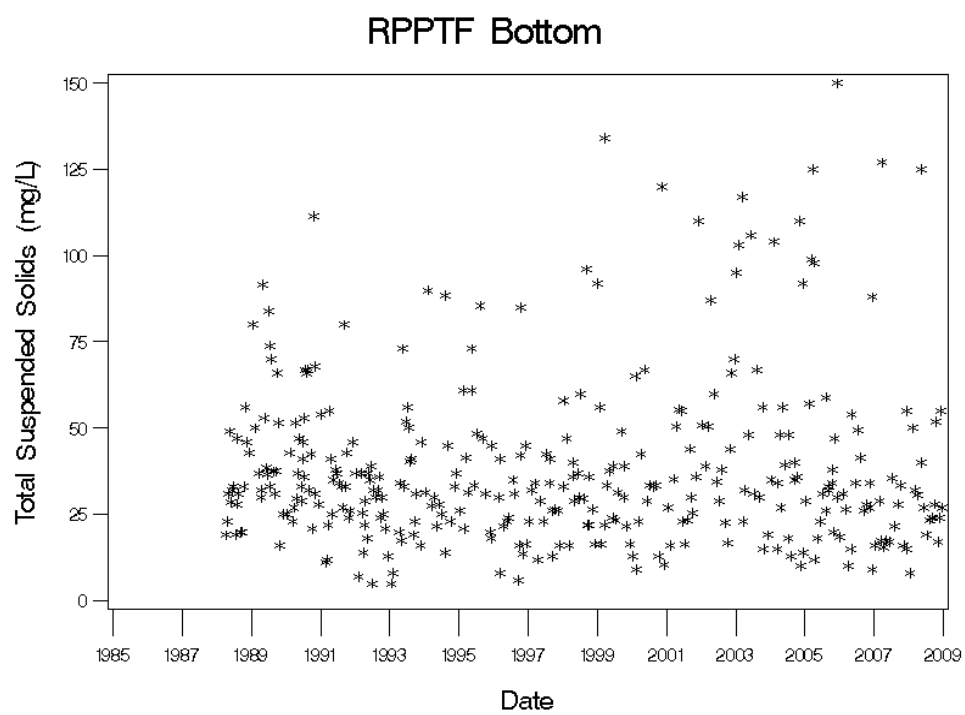


Figure 15. Scatterplot of bottom total suspended solids at segment RPPTF during the period 1985 to 2008.

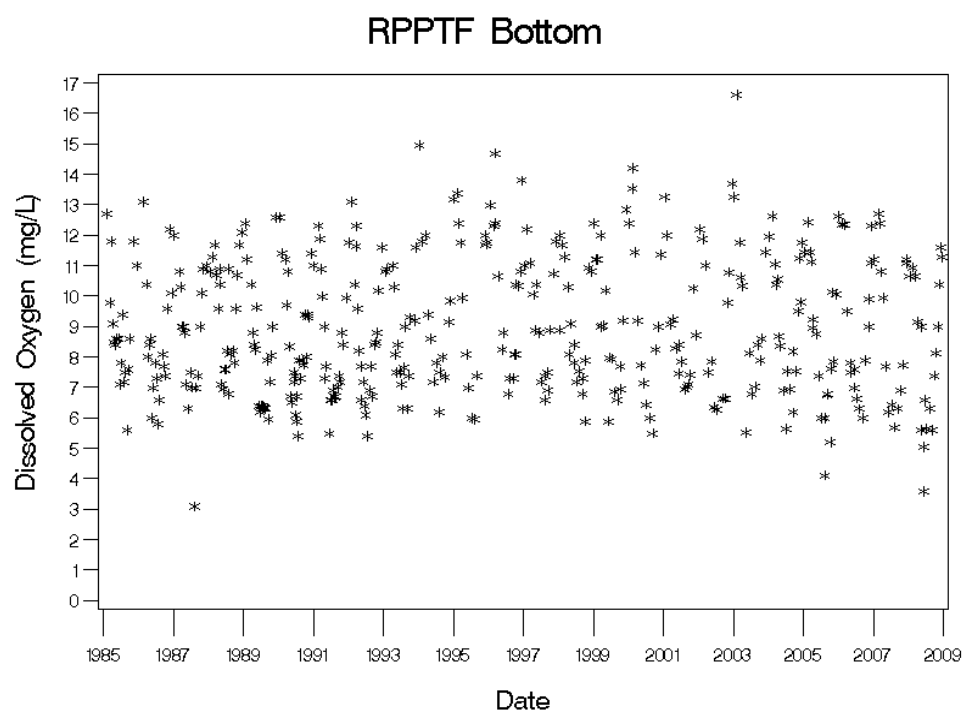


Figure 16. Scatterplot of bottom dissolved oxygen at segment RPPTF during the period 1985 to 2008.

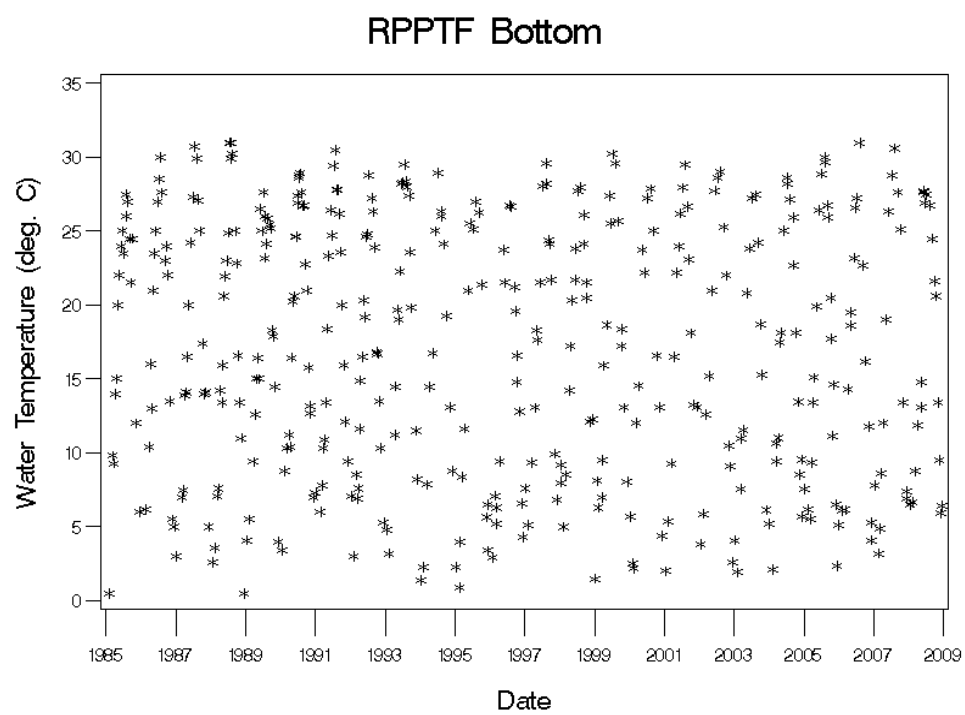


Figure 17. Scatterplot of bottom water temperature at segment RPPTF during the period 1985 to 2008.

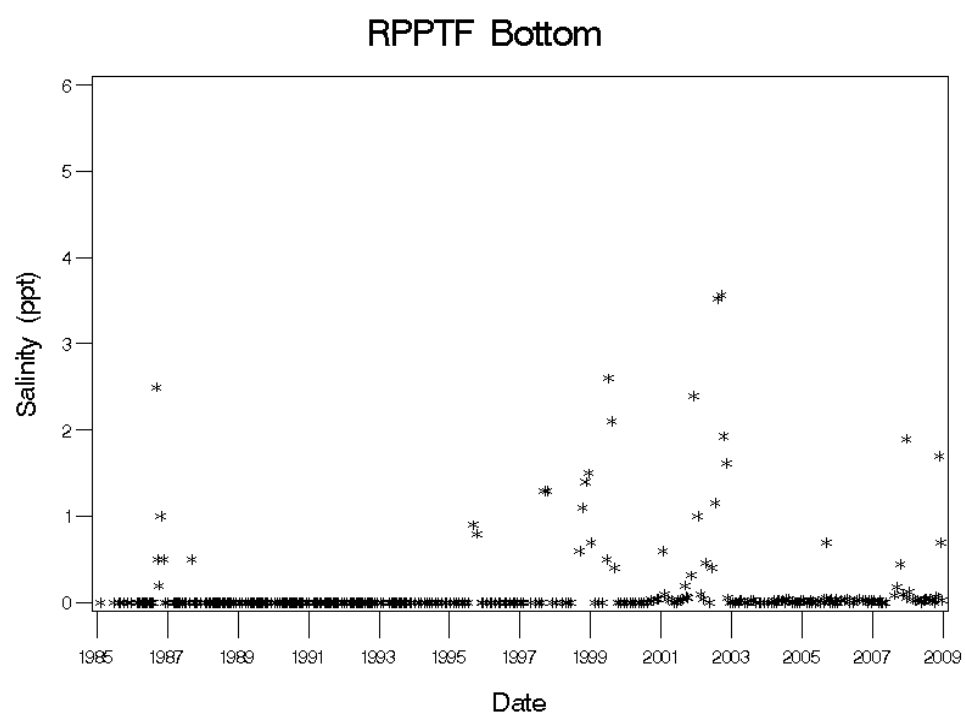
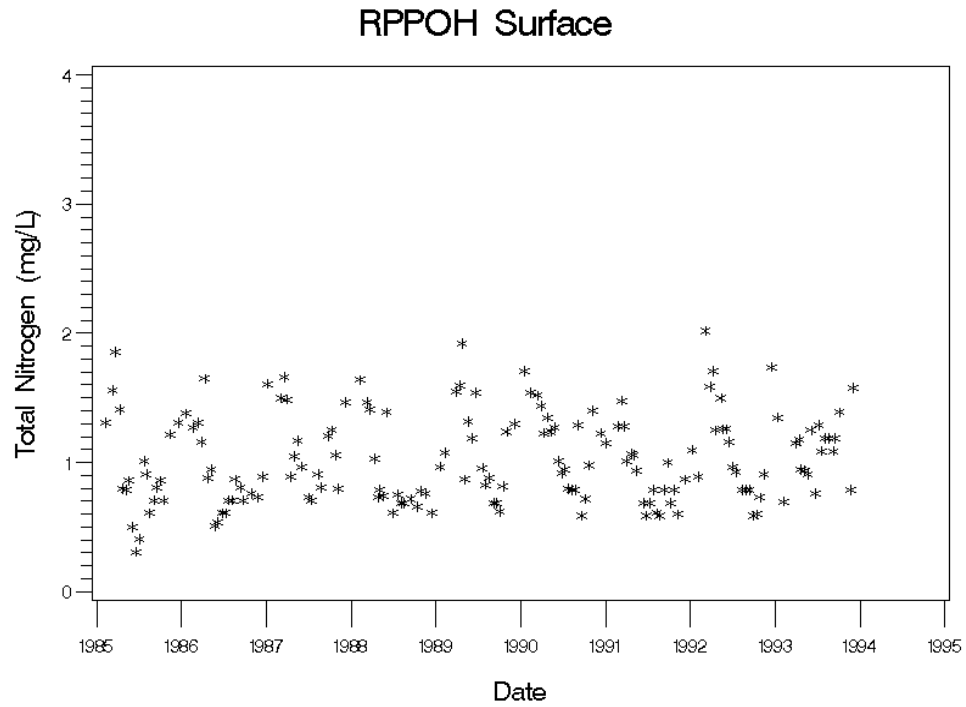


Figure 18. Scatterplot of bottom salinity at segment RPPTF during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

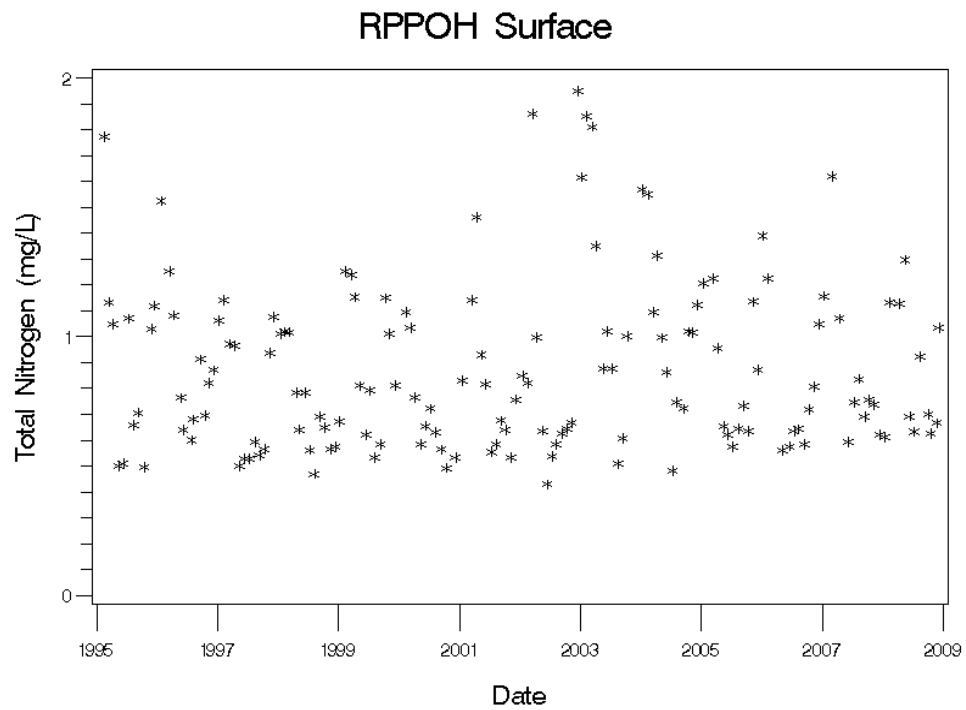
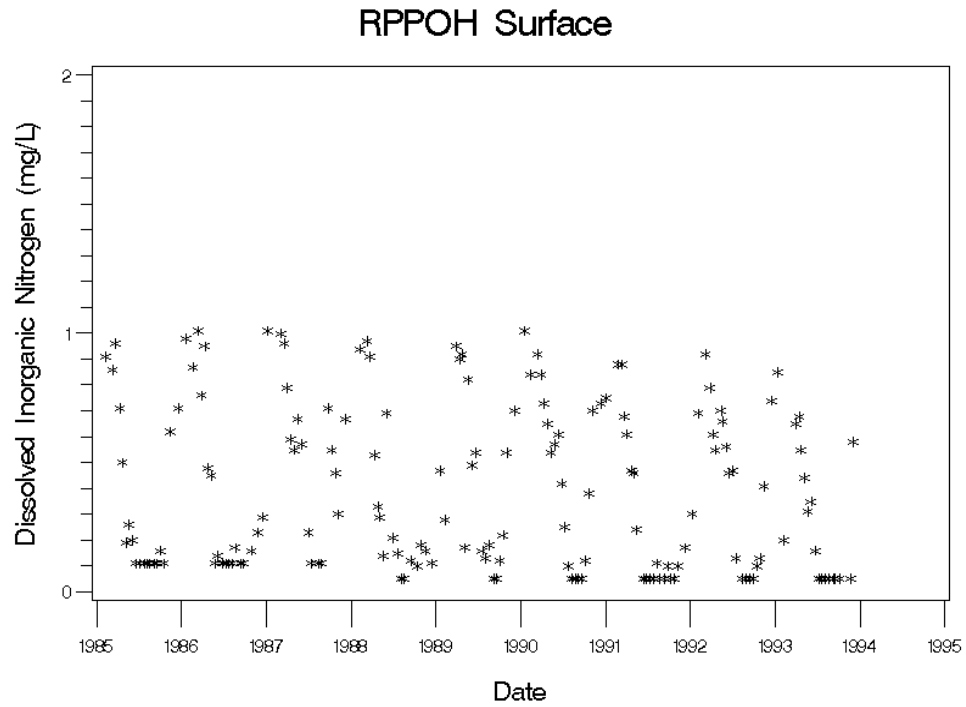


Figure 19. Scatterplots of surface total nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

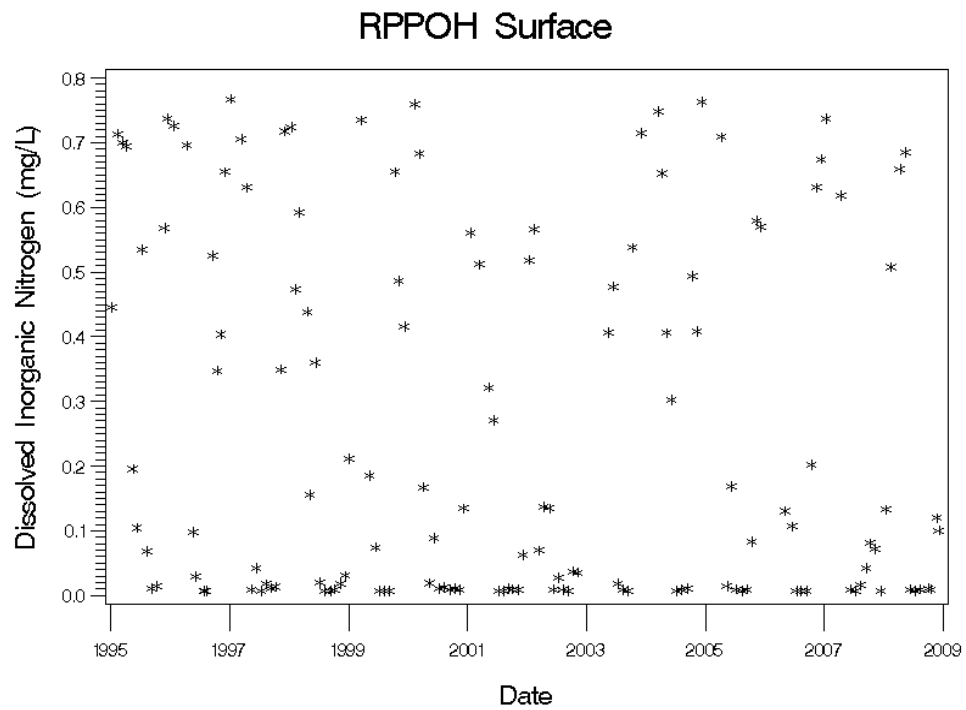
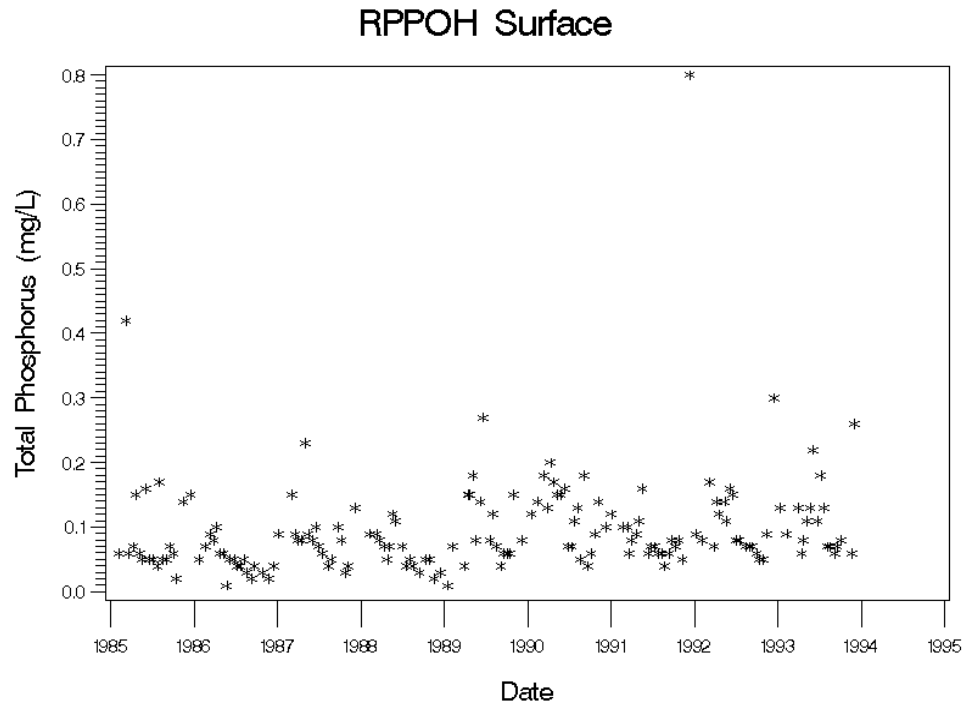


Figure 20. Scatterplots of surface dissolved inorganic nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

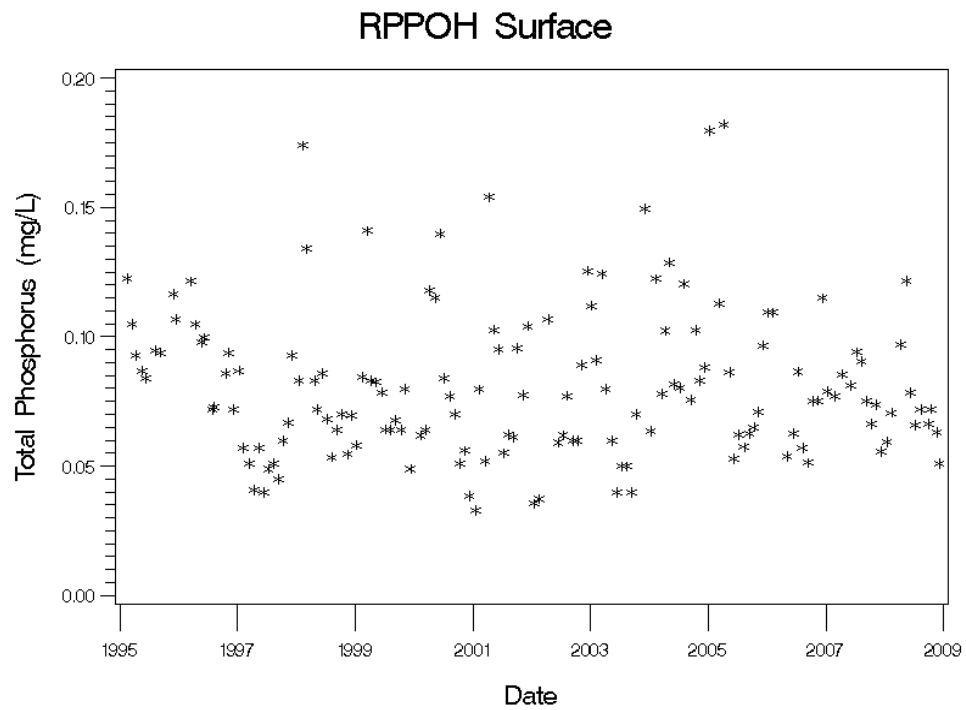
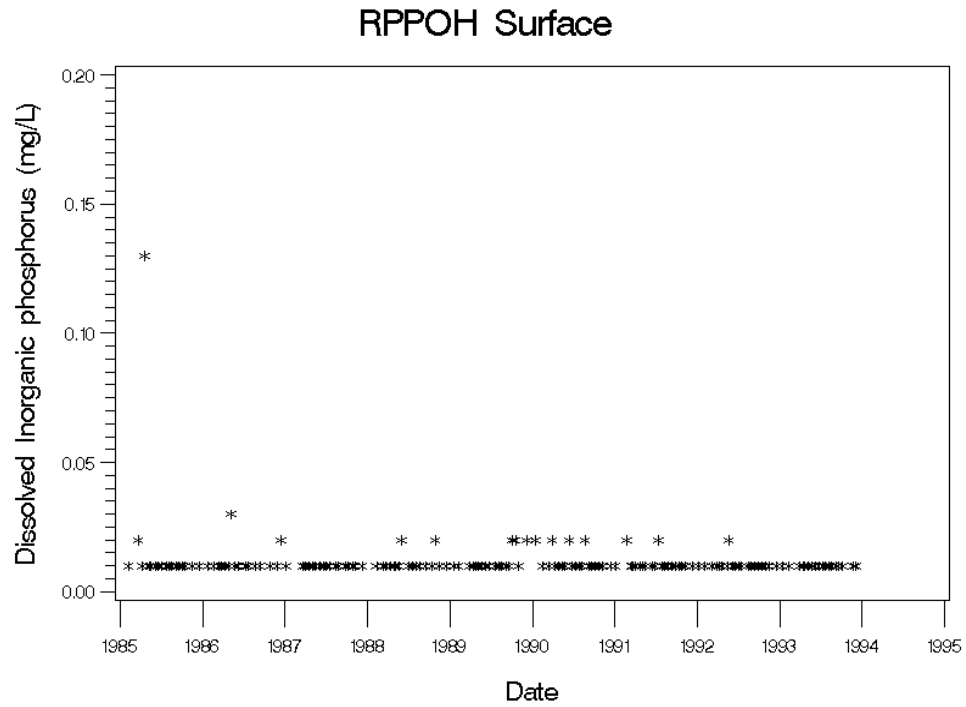


Figure 21. Scatterplots of surface total phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

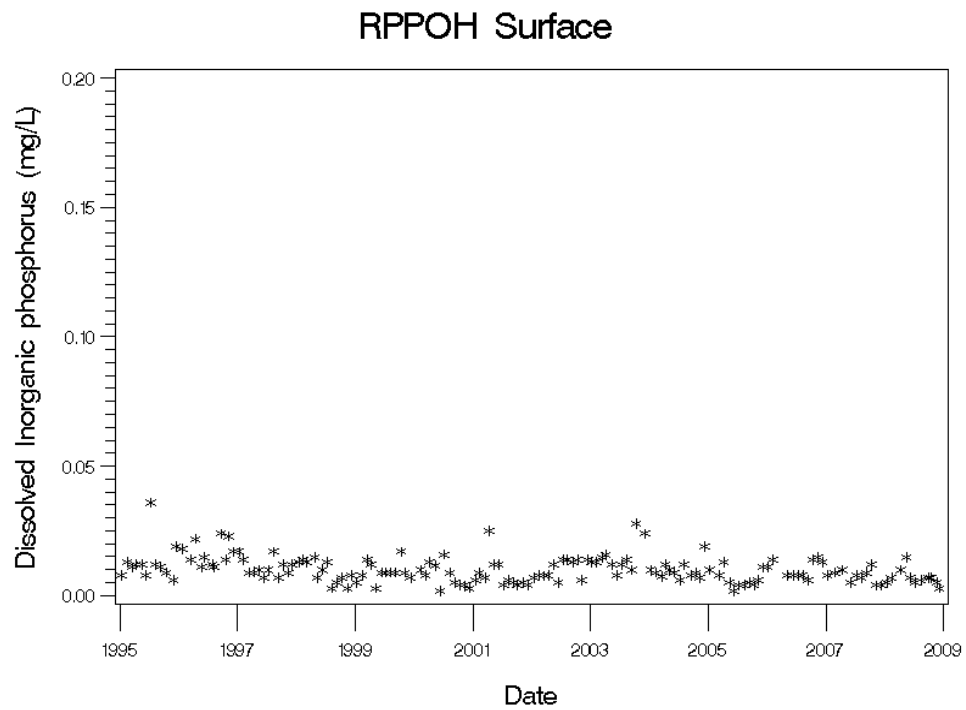


Figure 22. Scatterplots of surface dissolved inorganic phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

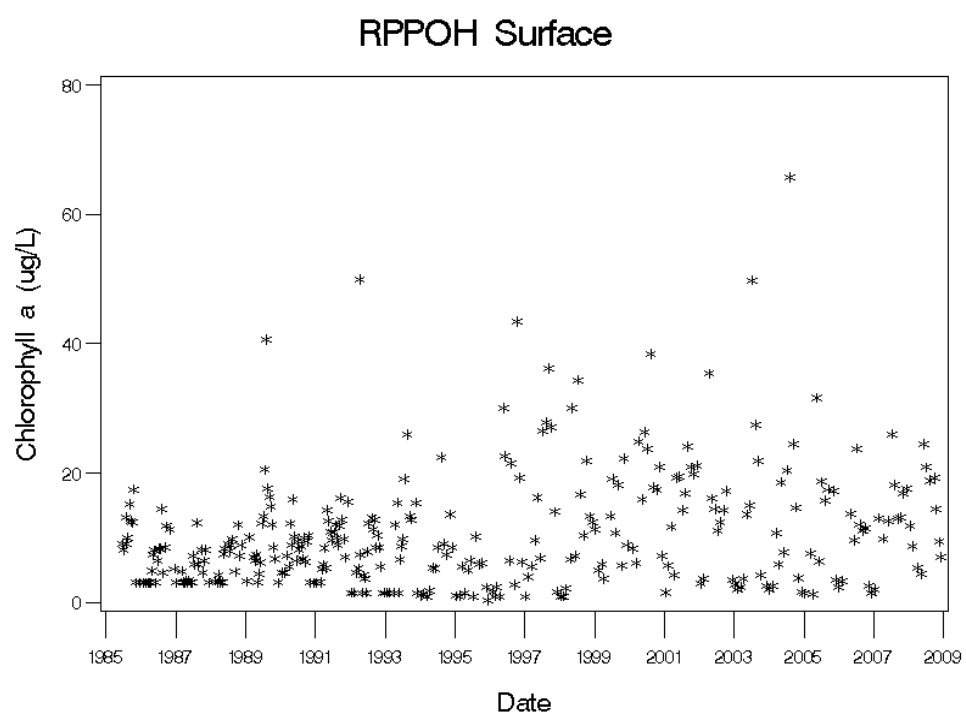


Figure 23. Scatterplot of surface chlorophyll a at segment RPOH during the period 1985 to 2008.

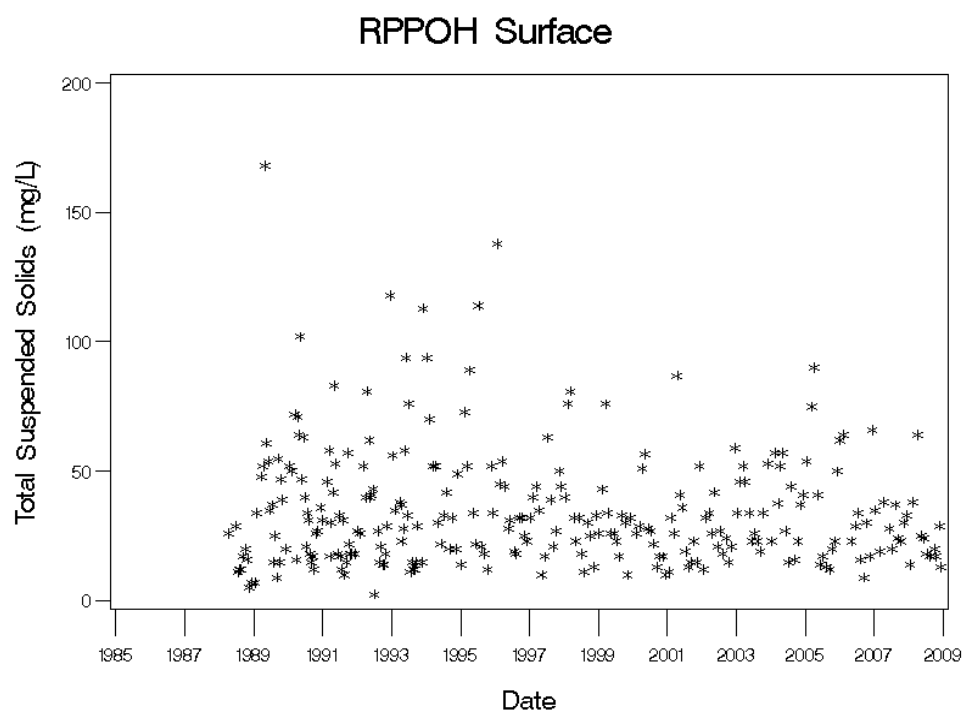


Figure 24. Scatterplot of surface total suspended solids at segment RPPOH during the period 1985 to 2008.

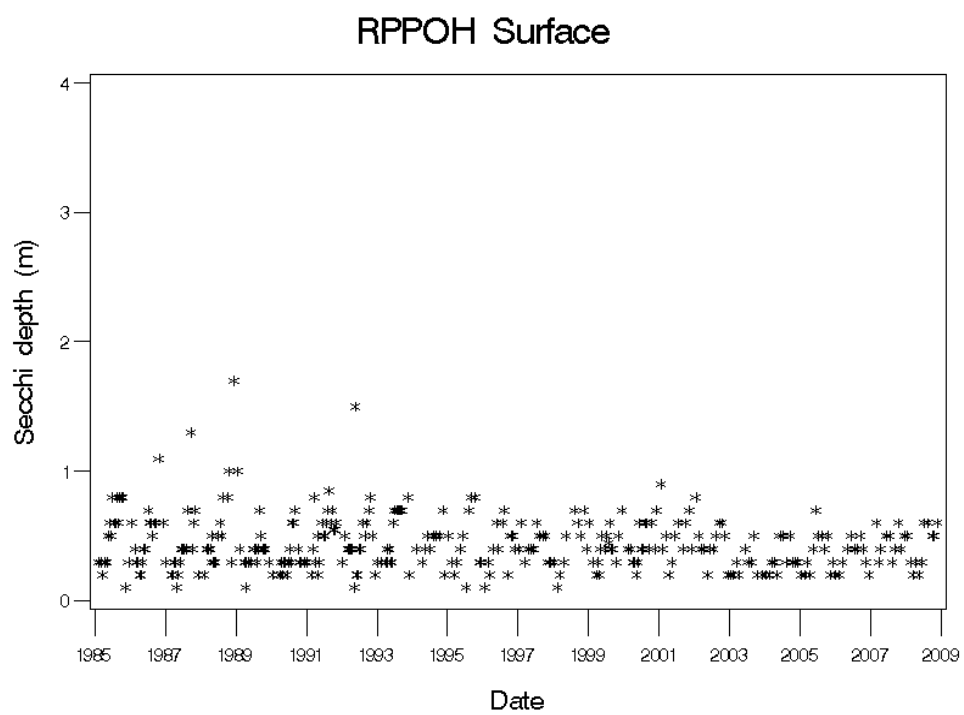


Figure 25. Scatterplot of secchi depth at segment RPPOH during the period 1985 to 2008.

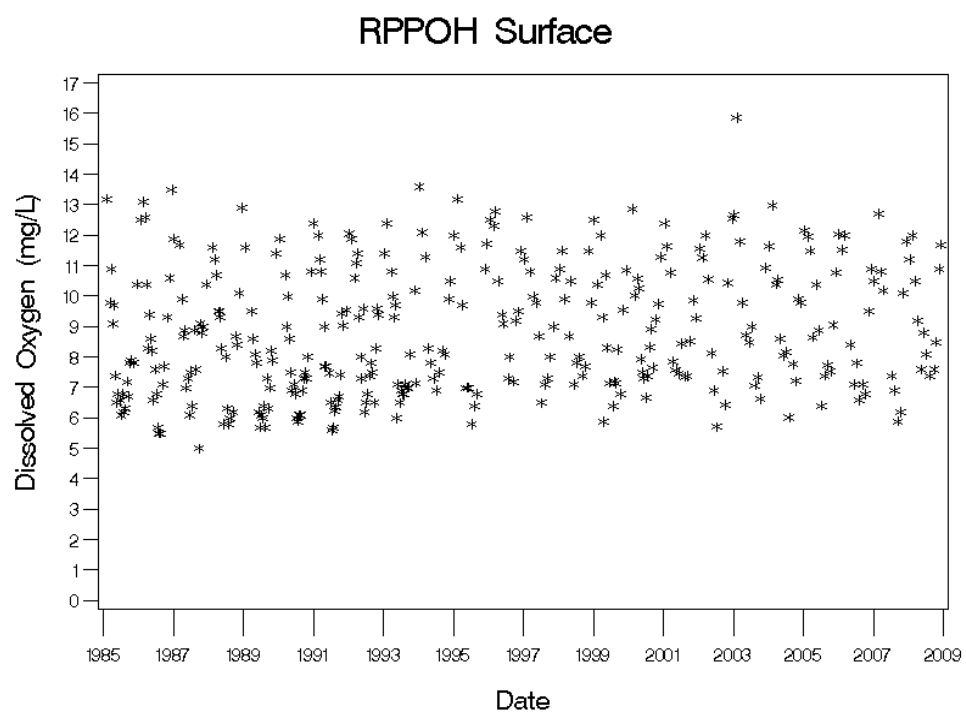


Figure 26. Scatterplot of surface dissolved oxygen at segment RPOH during the period 1985 to 2008.

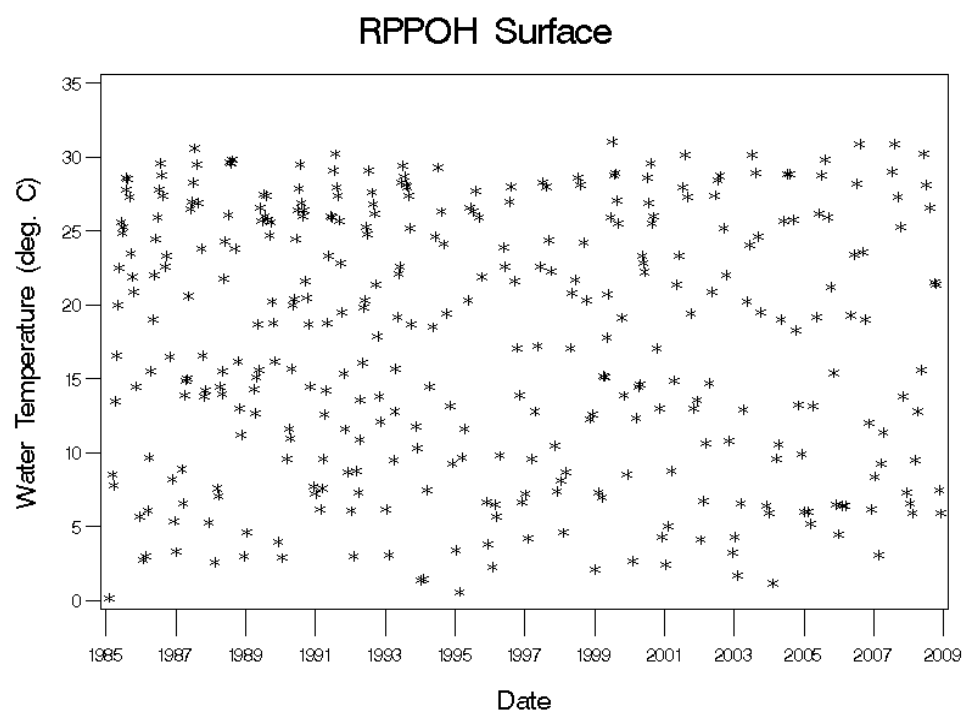


Figure 27. Scatterplot of surface water temperature at segment RPOH during the period 1985 to 2008.

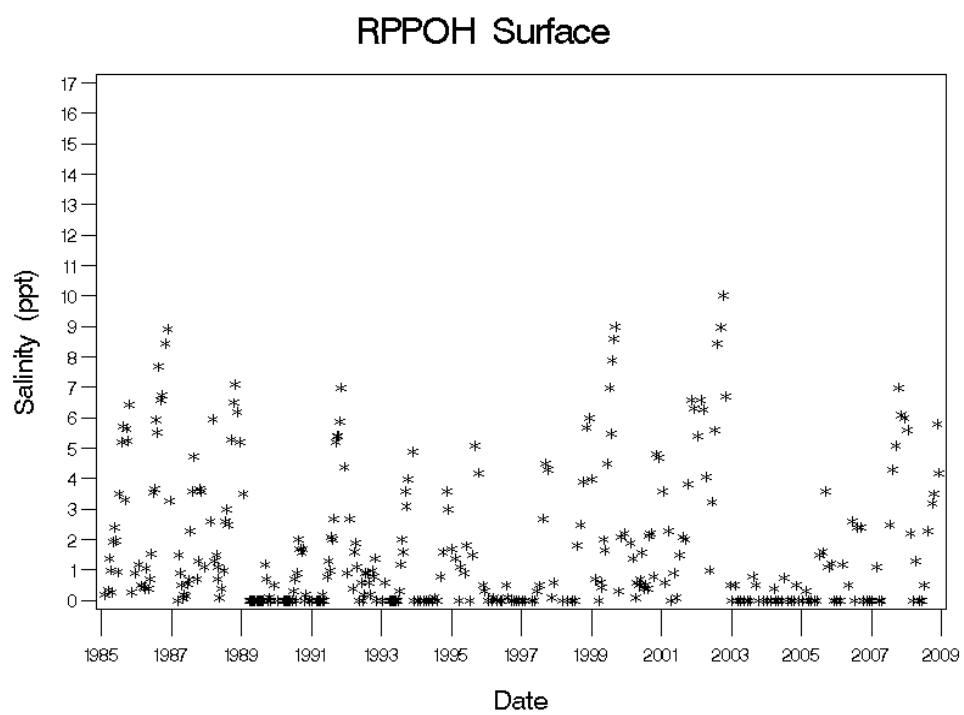
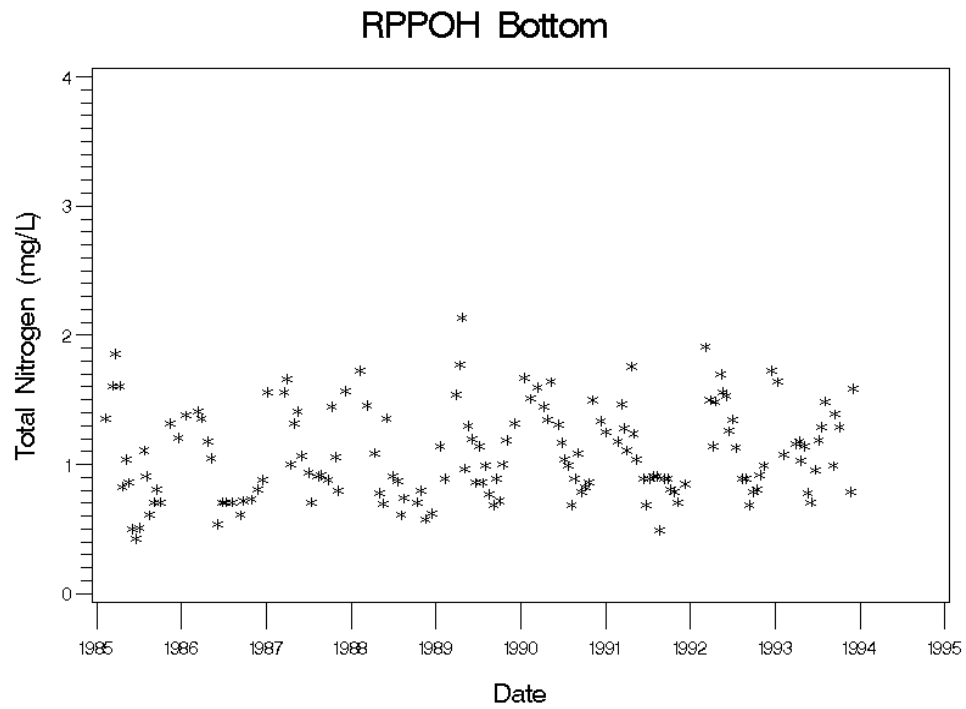


Figure 28. Scatterplot of surface salinity at segment RPPOH during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

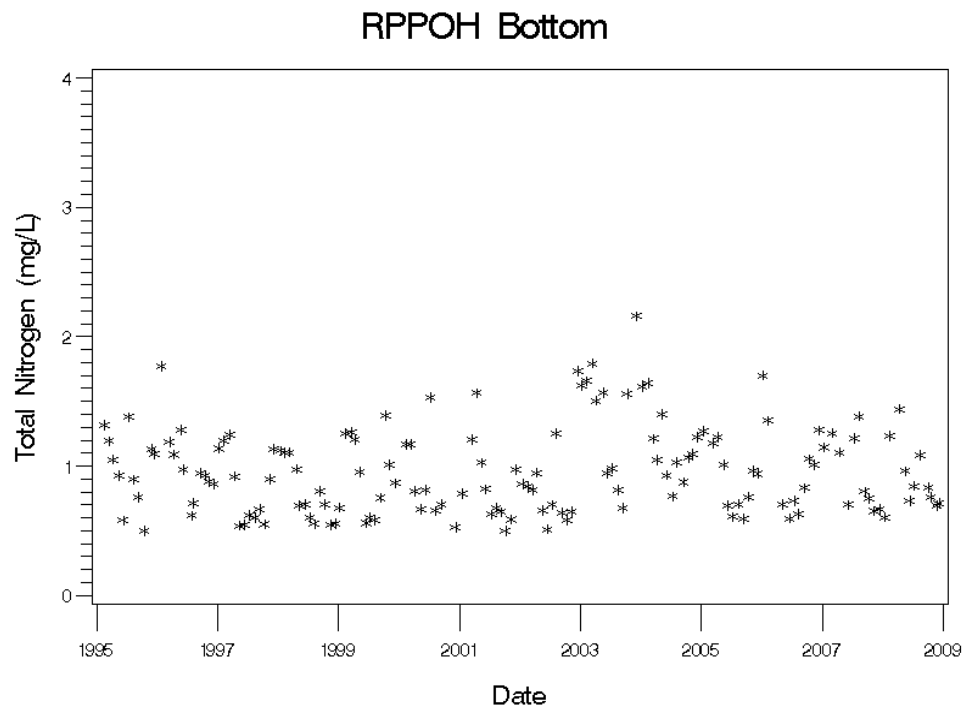
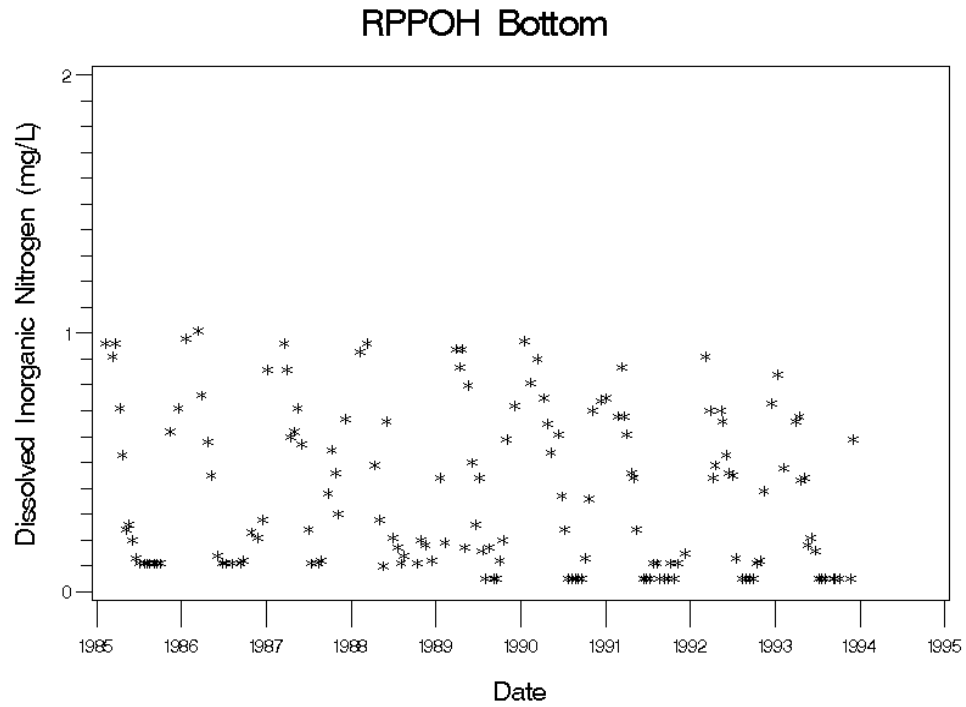


Figure 29. Scatterplots of bottom total nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

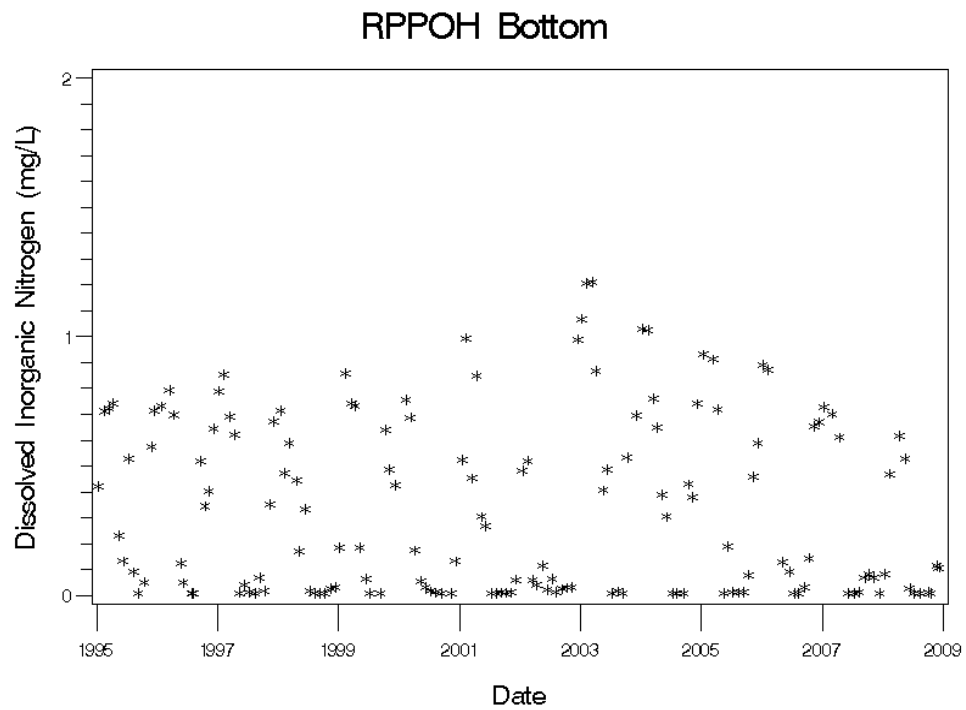
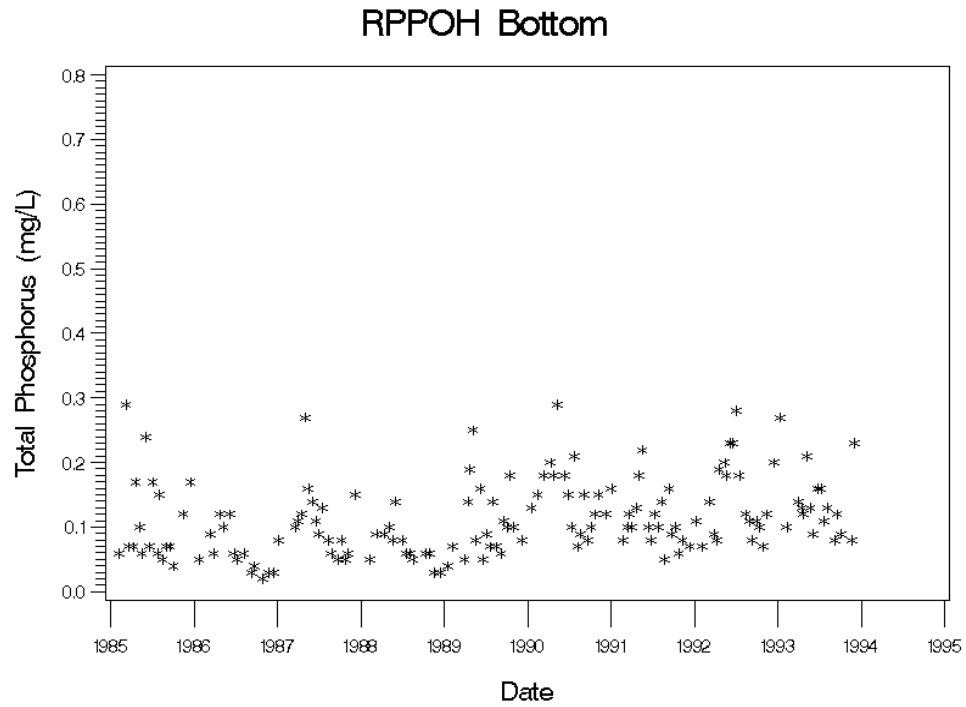


Figure 30. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

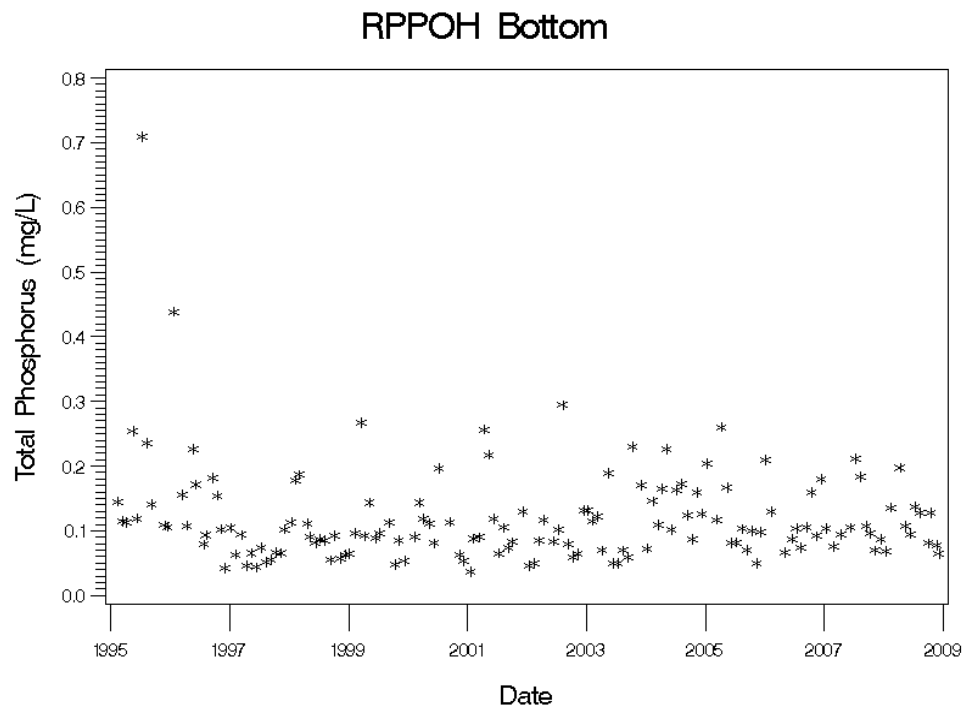
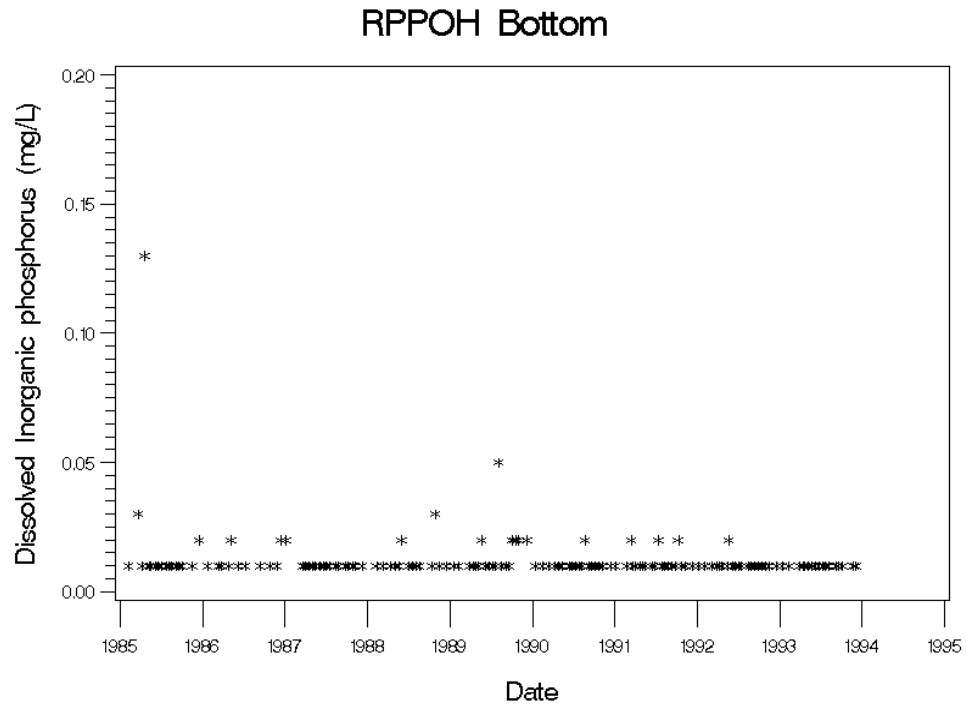


Figure 31. Scatterplots of bottom total phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

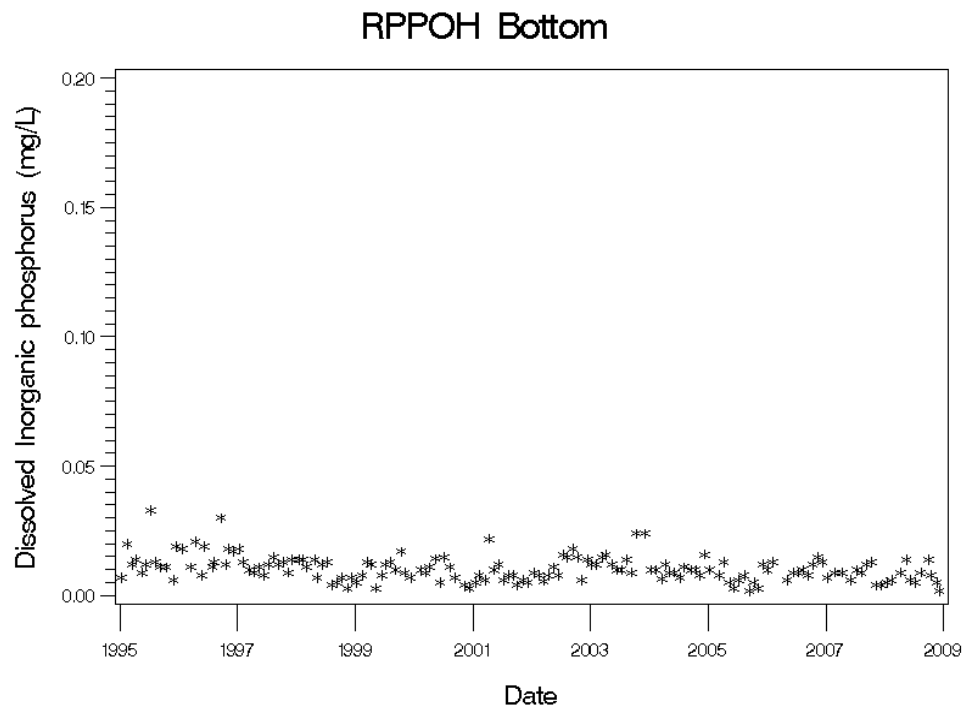


Figure 32. Scatterplots of bottom dissolved inorganic phosphorus at segment RPPOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

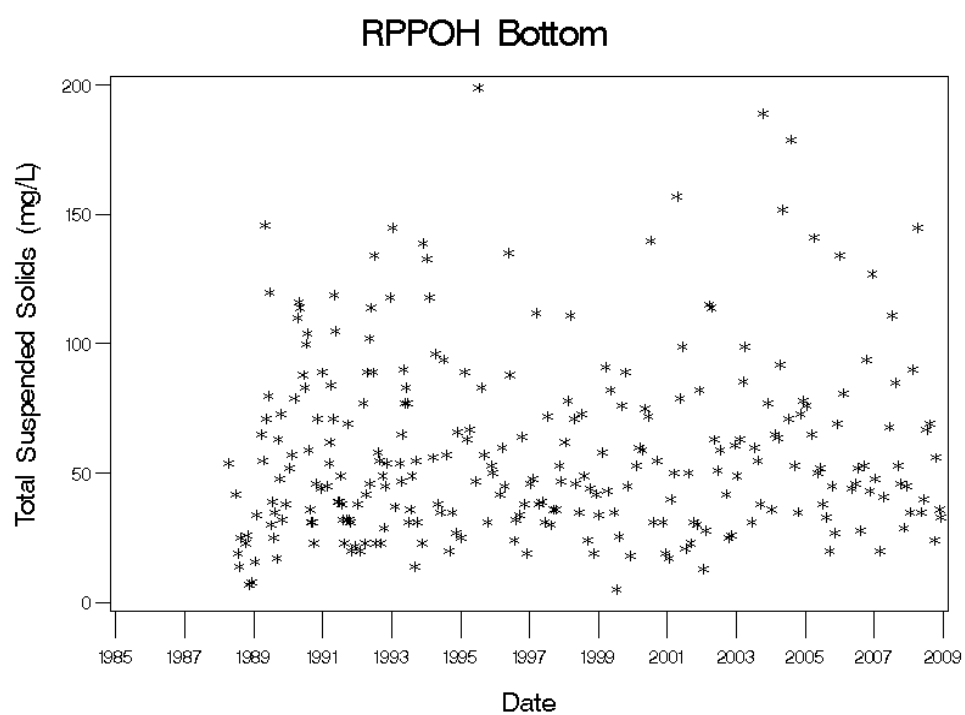


Figure 33. Scatterplot of bottom total suspended solids at segment RPOH during the period 1985 to 2008.

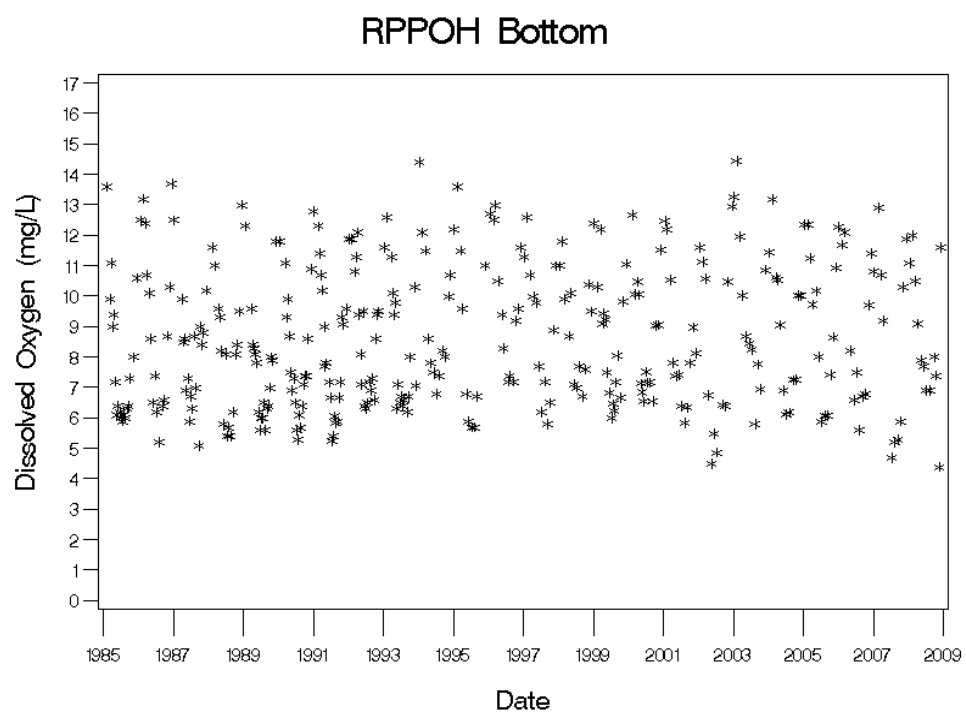


Figure 34. Scatterplot of bottom dissolved oxygen at segment RPPOH during the period 1985 to 2008.

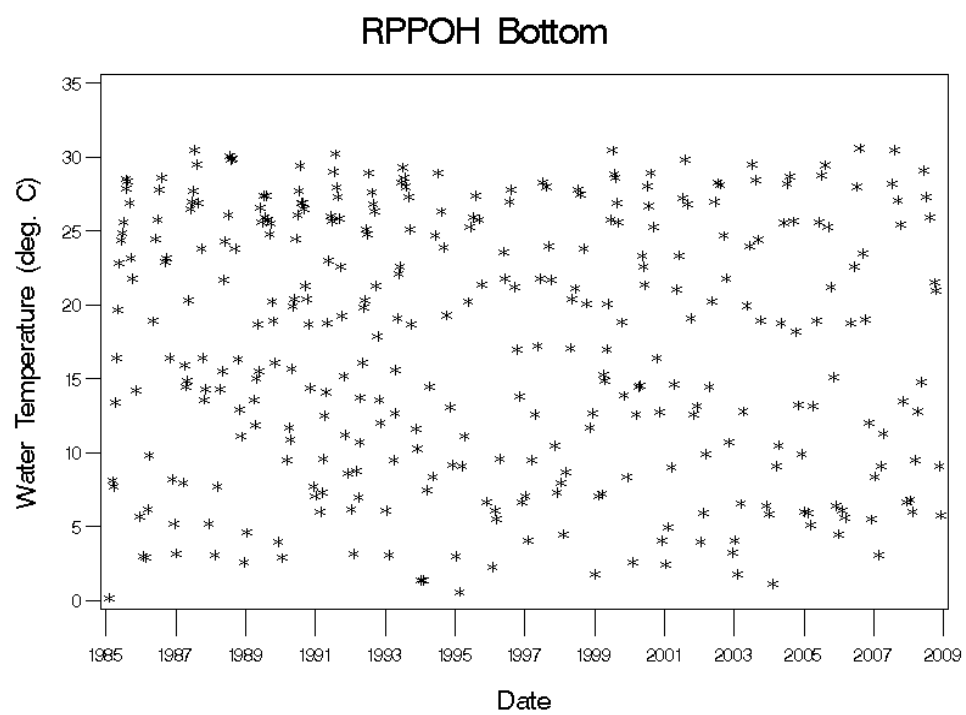


Figure 35. Scatterplot of bottom water temperature at segment RPOH during the period 1985 to 2008.

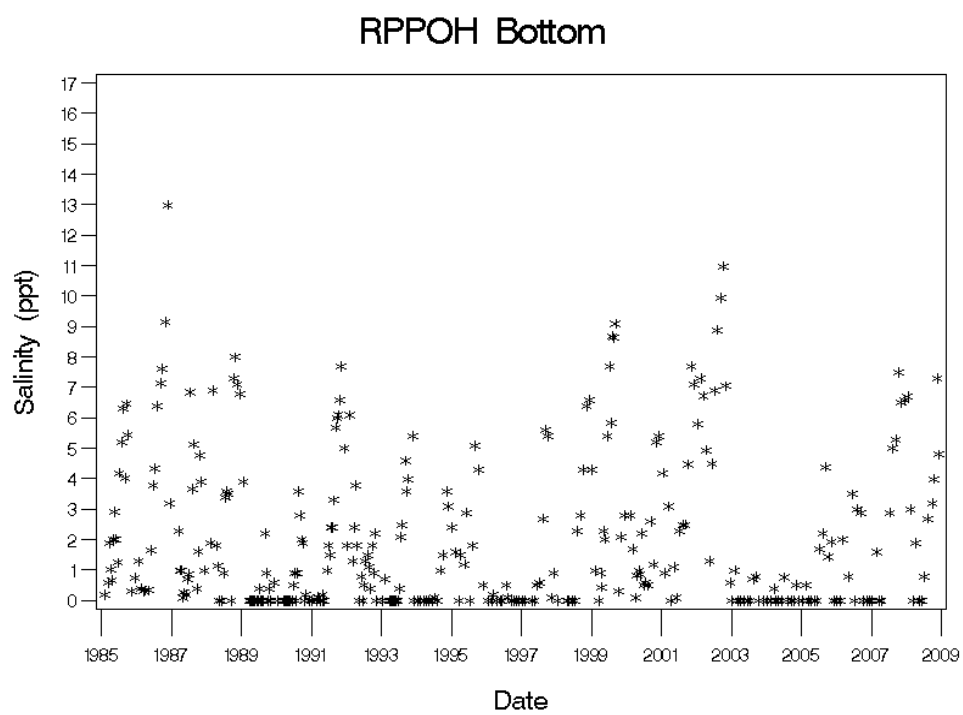
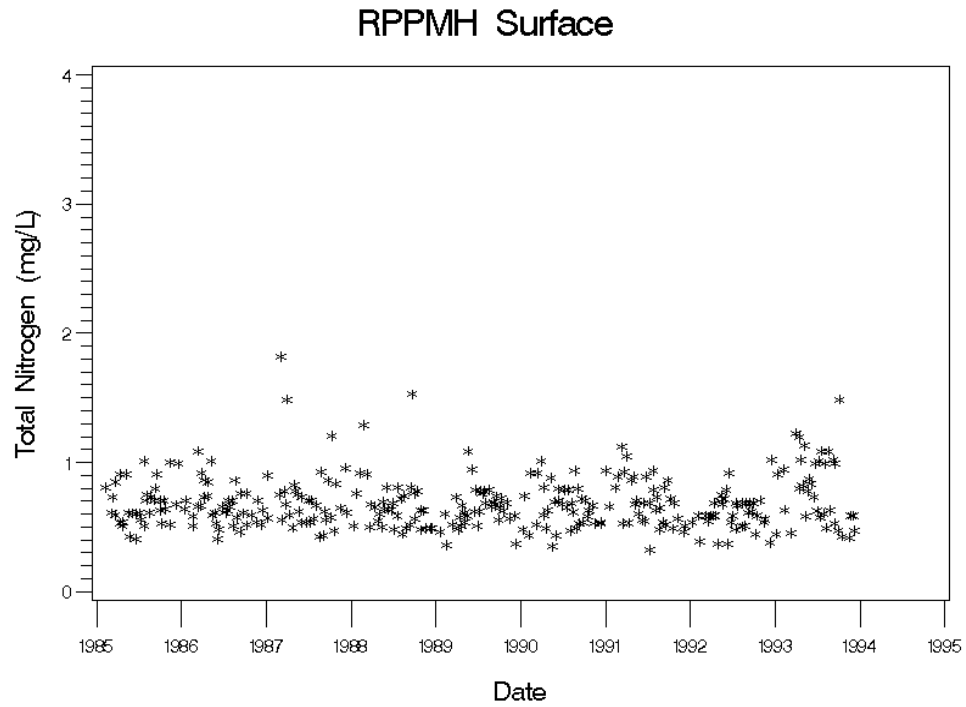


Figure 36. Scatterplot of bottom salinity at segment RPOH during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

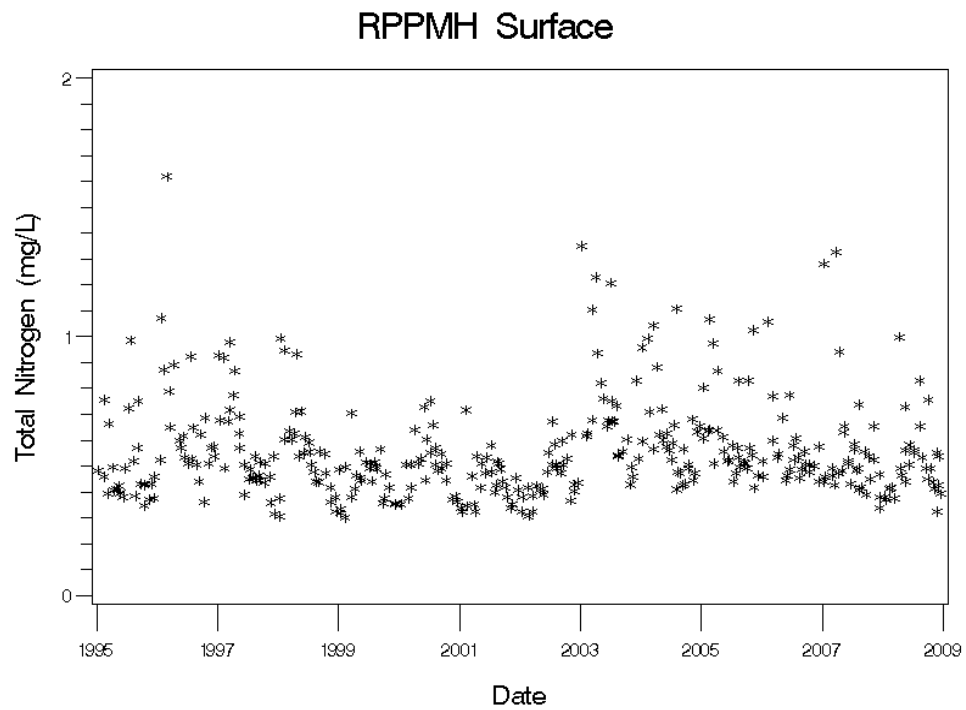
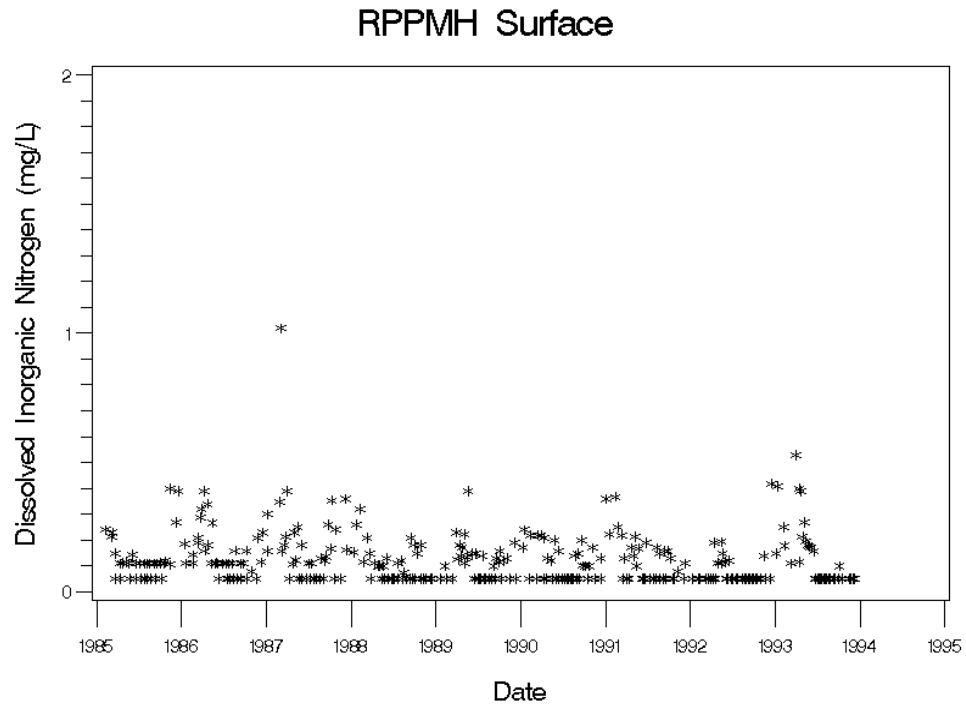


Figure 37. Scatterplots of surface total nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

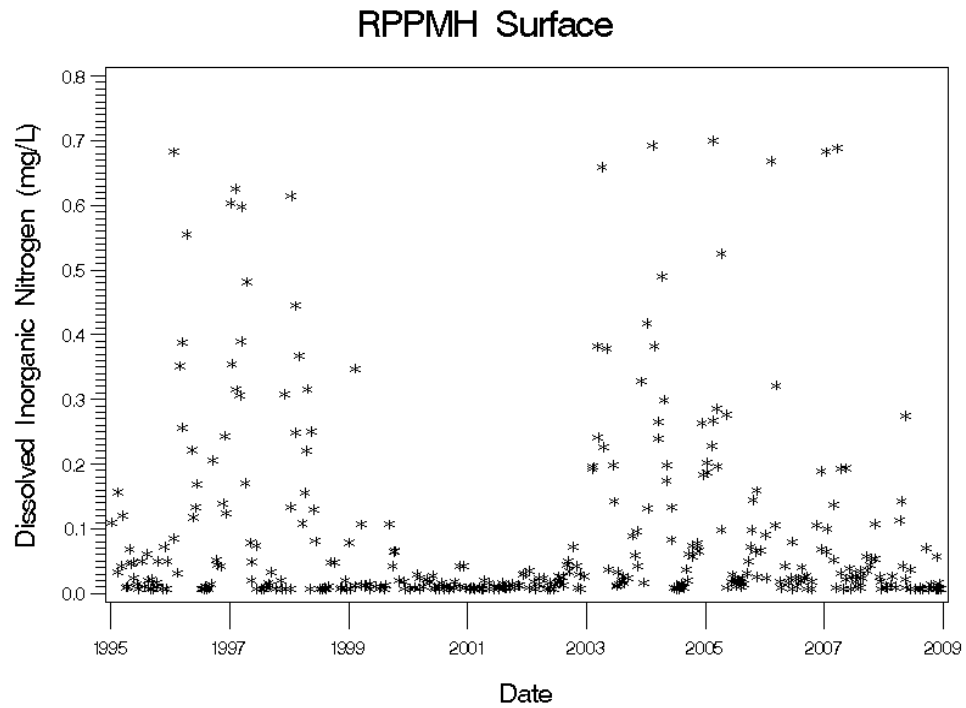
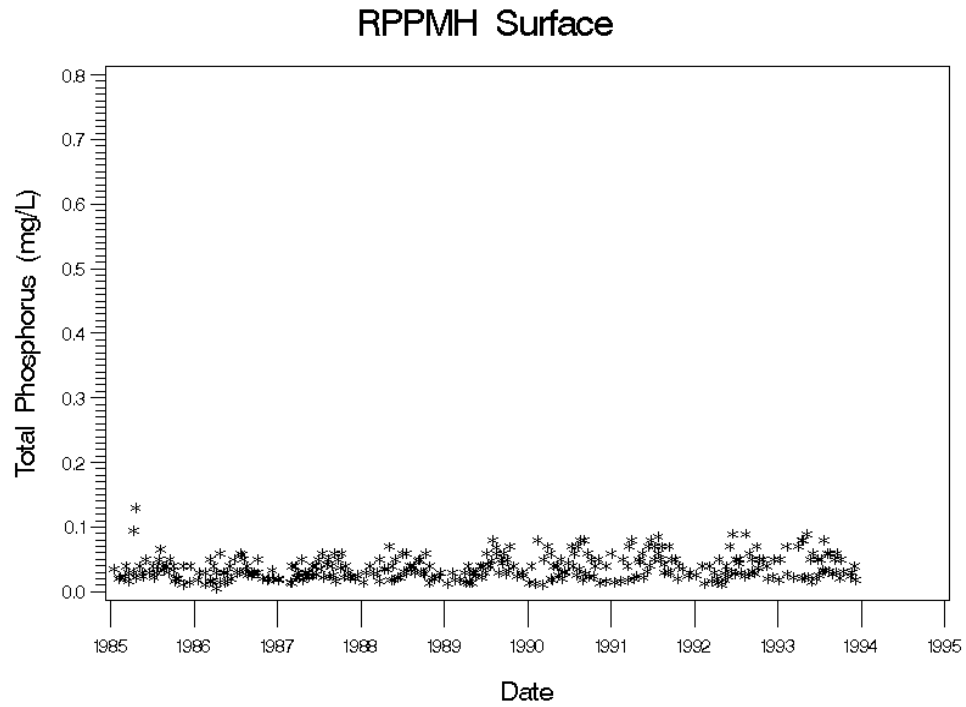


Figure 38. Scatterplots of surface dissolved inorganic nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

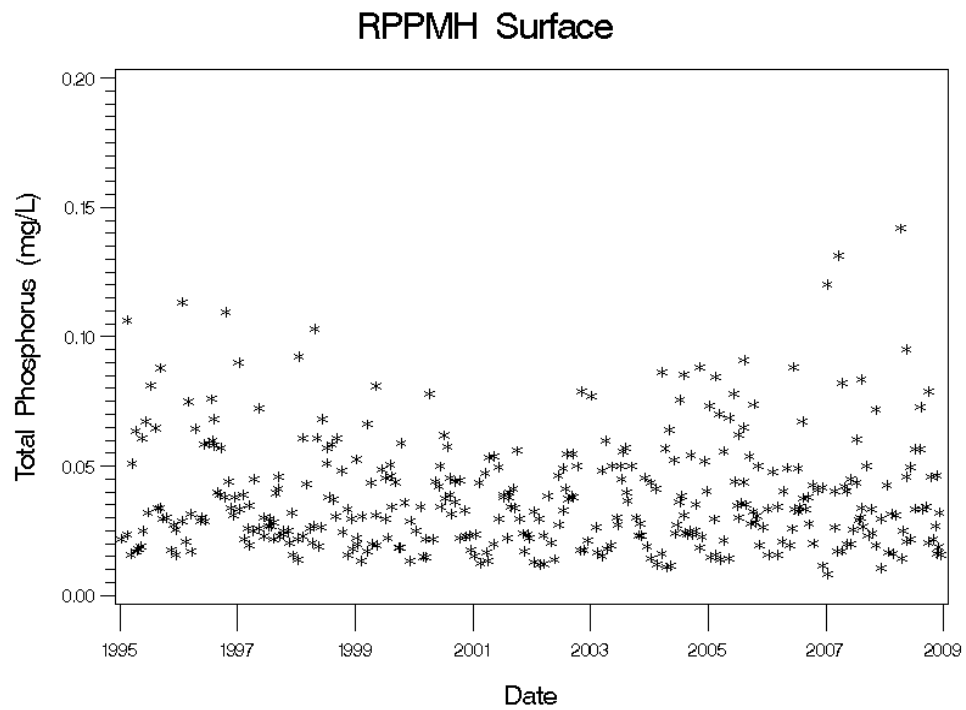
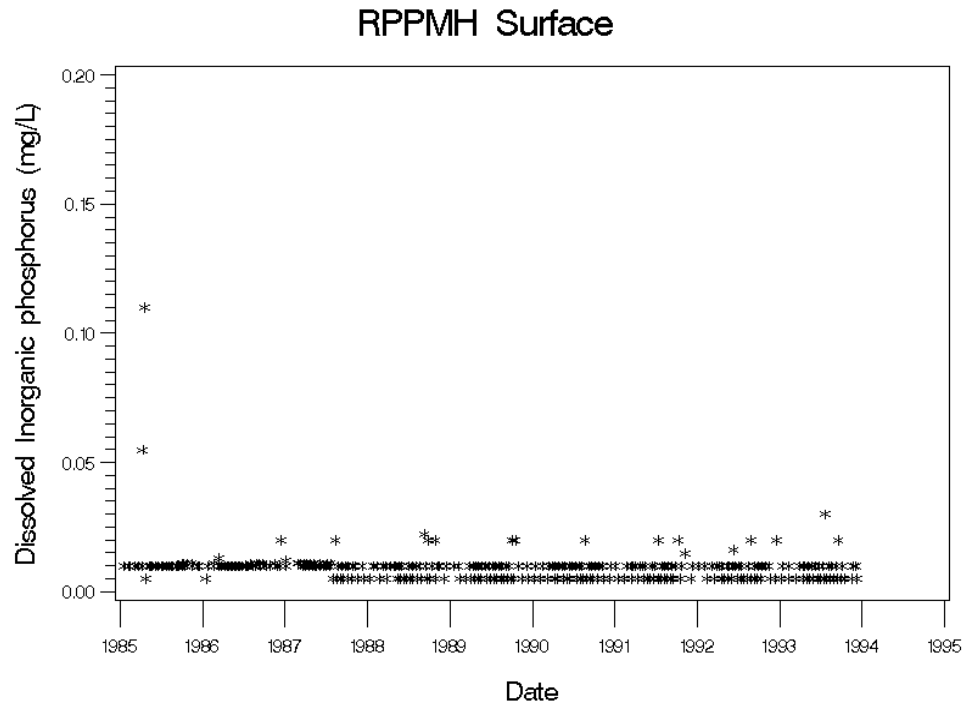


Figure 39. Scatterplots of surface total phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

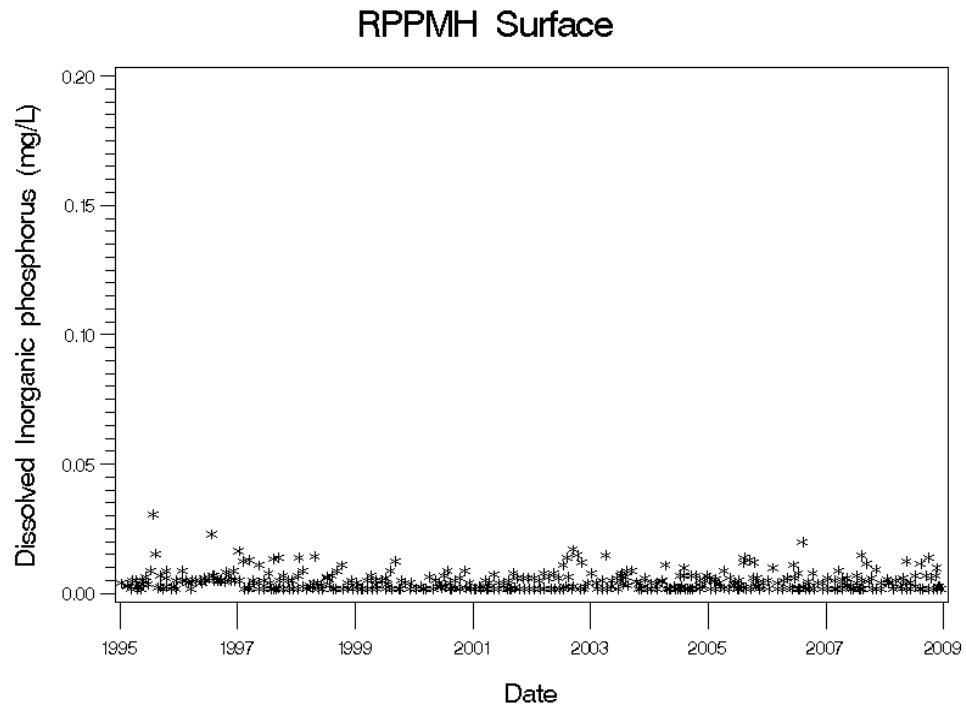


Figure 40. Scatterplots of surface dissolved inorganic phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

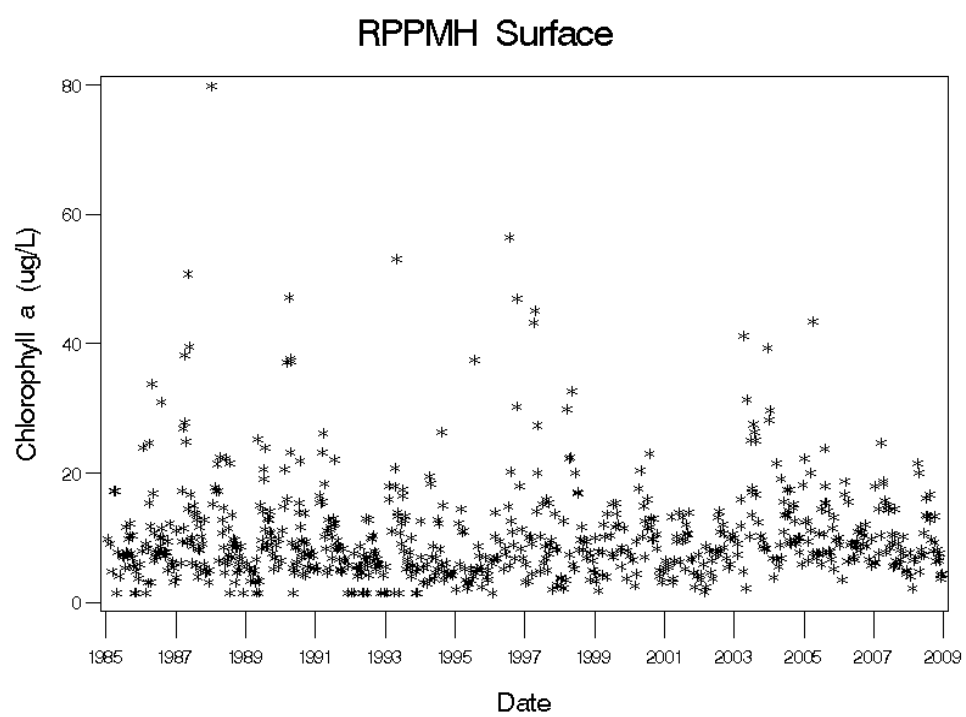


Figure 41. Scatterplot of surface chlorophyll a at segment RPPMH during the period 1985 to 2008.

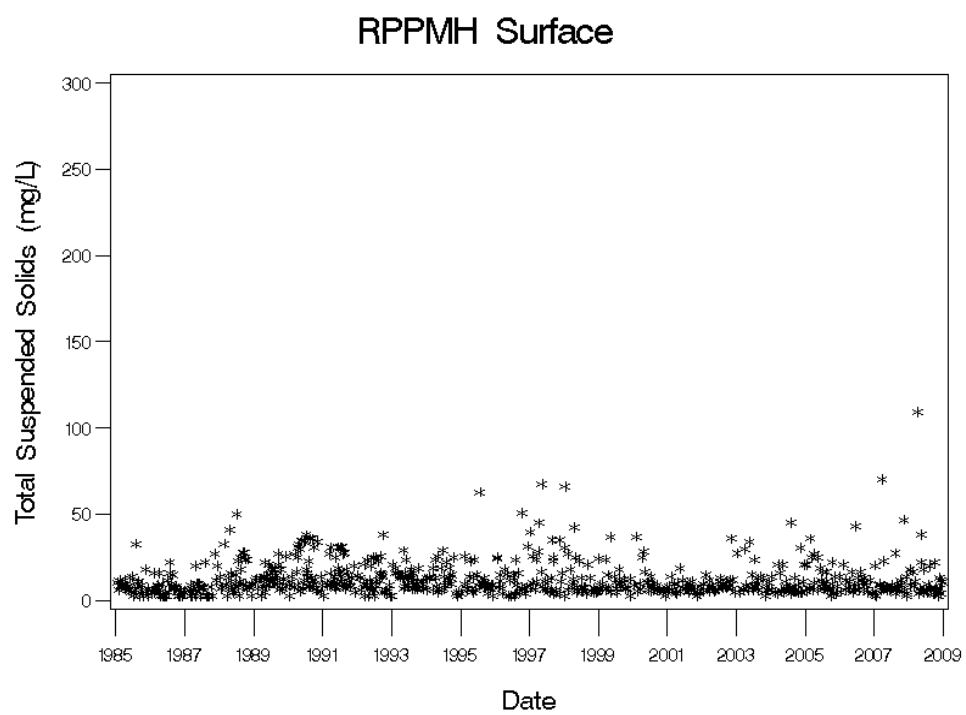


Figure 42. Scatterplot of surface total suspended solids at segment RPPMH during the period 1985 to 2008.

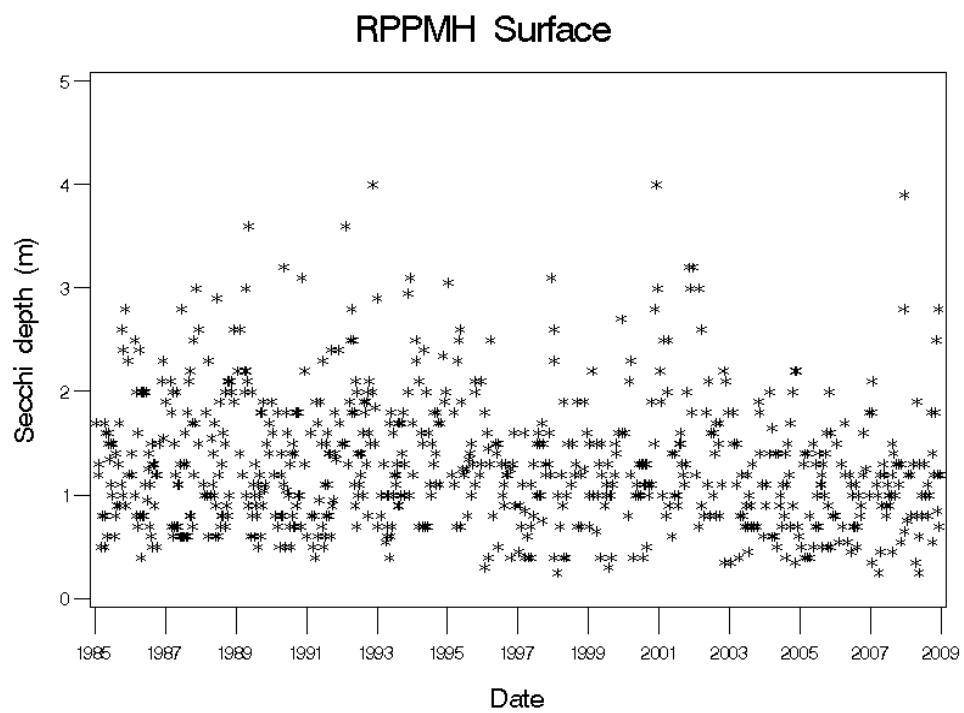


Figure 43. Scatterplot of secchi depth at segment RPPMH during the period 1985 to 2008.

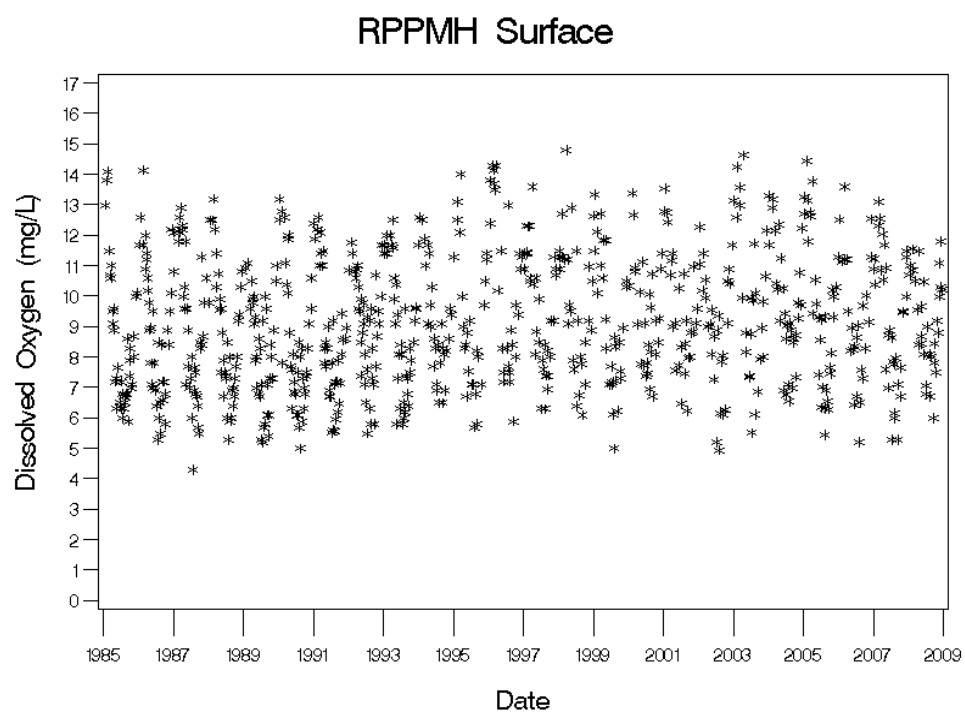


Figure 44. Scatterplot of surface dissolved oxygen at segment RPPMH during the period 1985 to 2008.

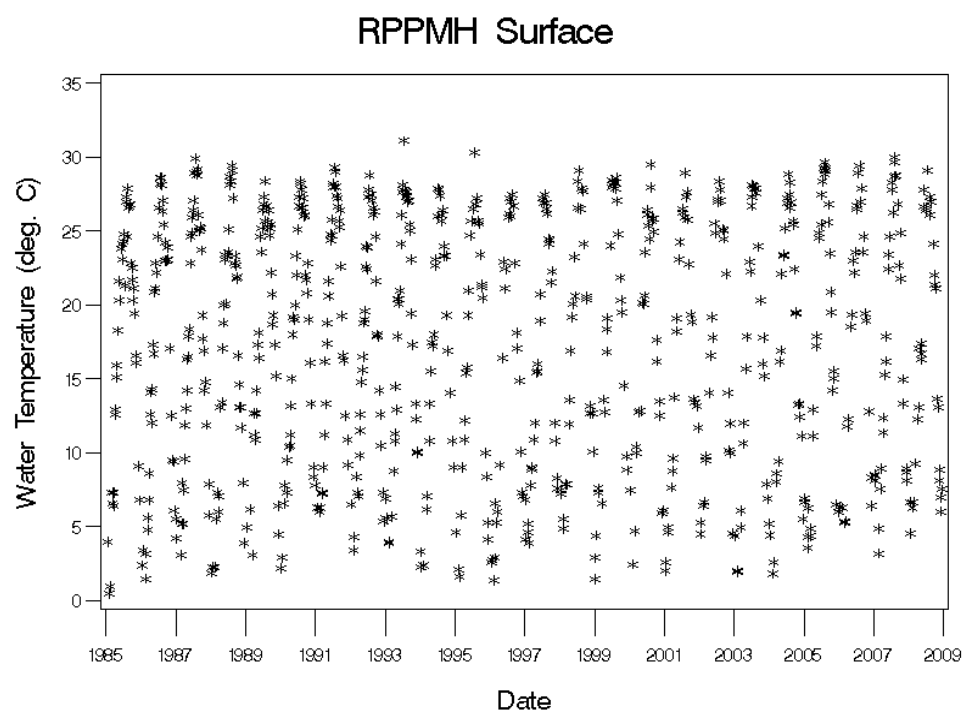


Figure 45. Scatterplot of surface water temperature at segment RPPMH during the period 1985 to 2008.

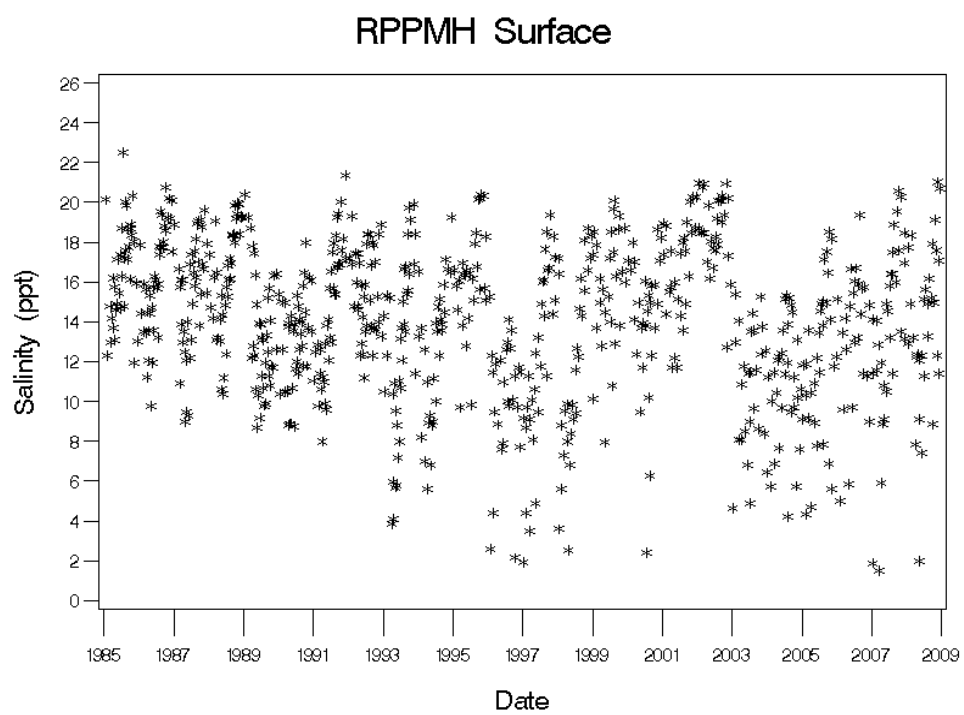
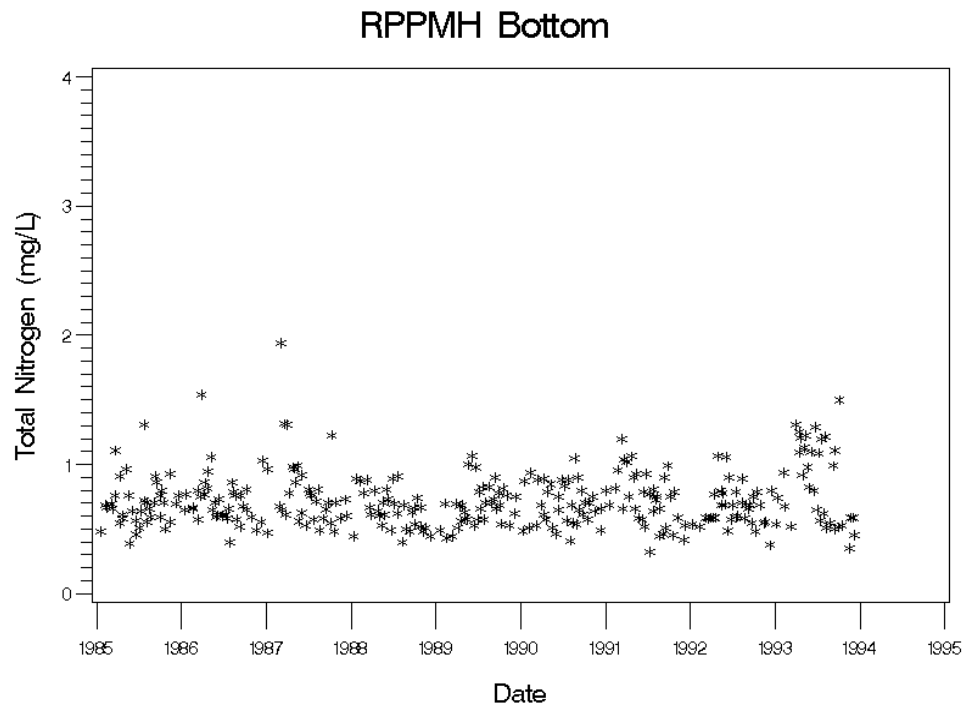


Figure 46. Scatterplot of surface salinity at segment RPPMH during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

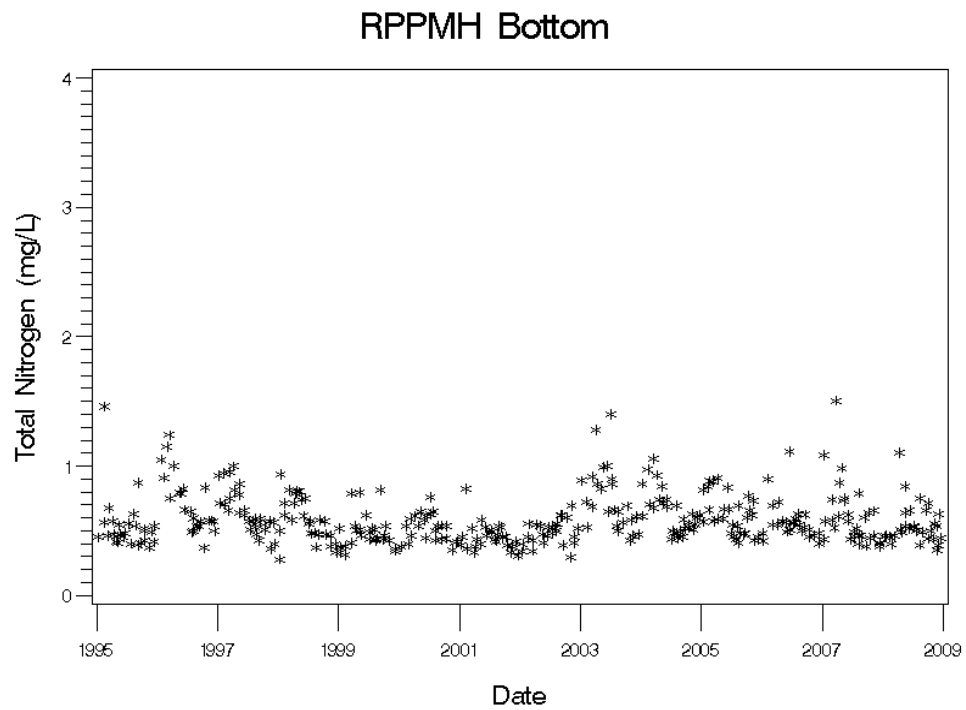
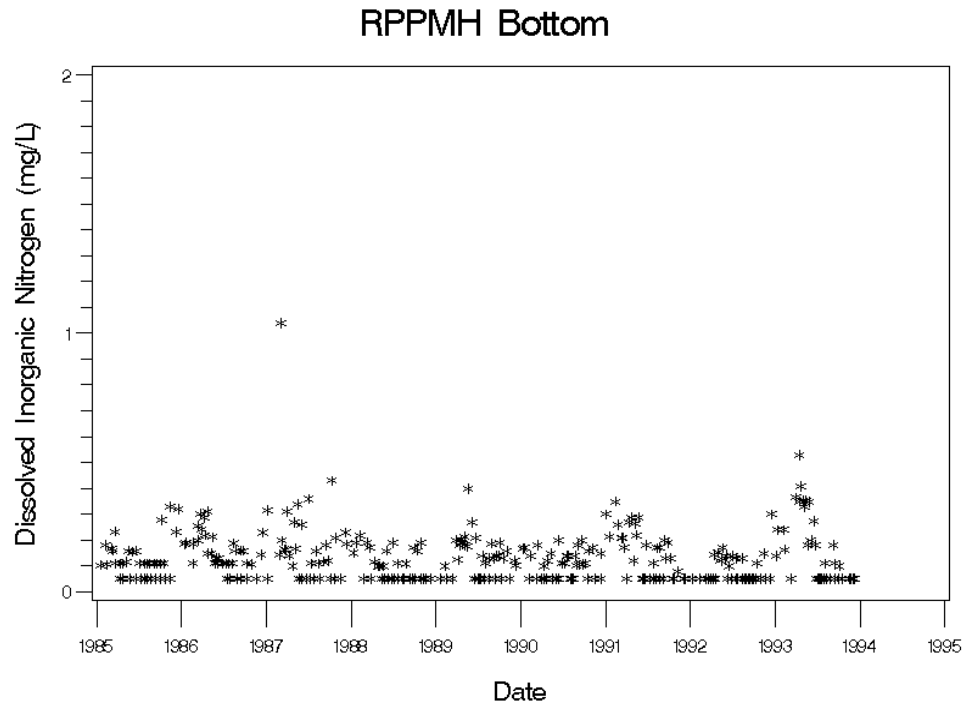


Figure 47. Scatterplots of bottom total nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

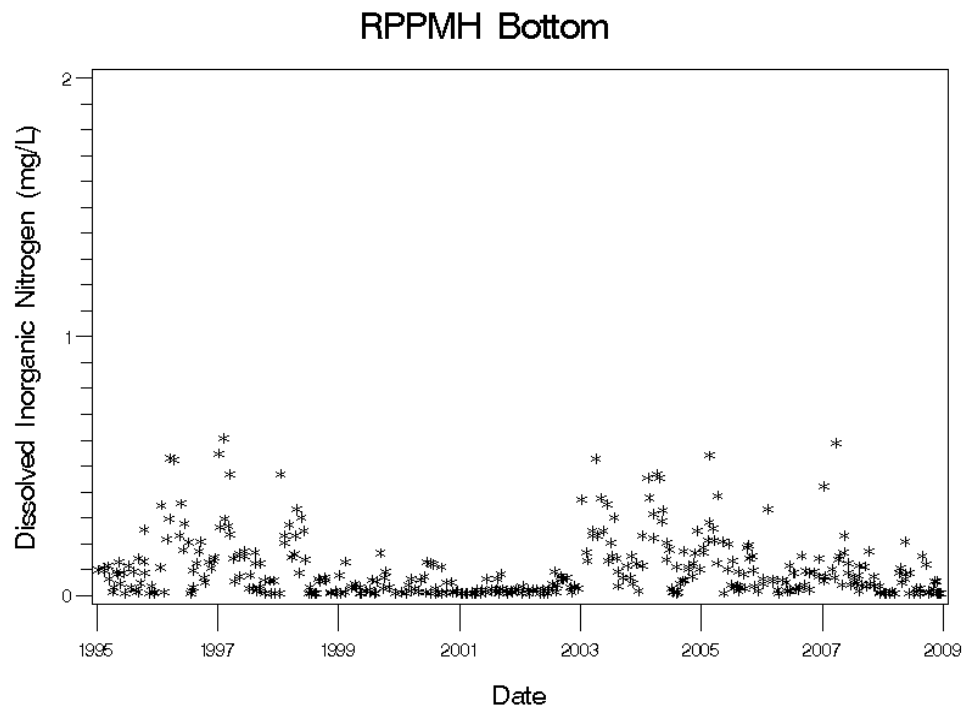
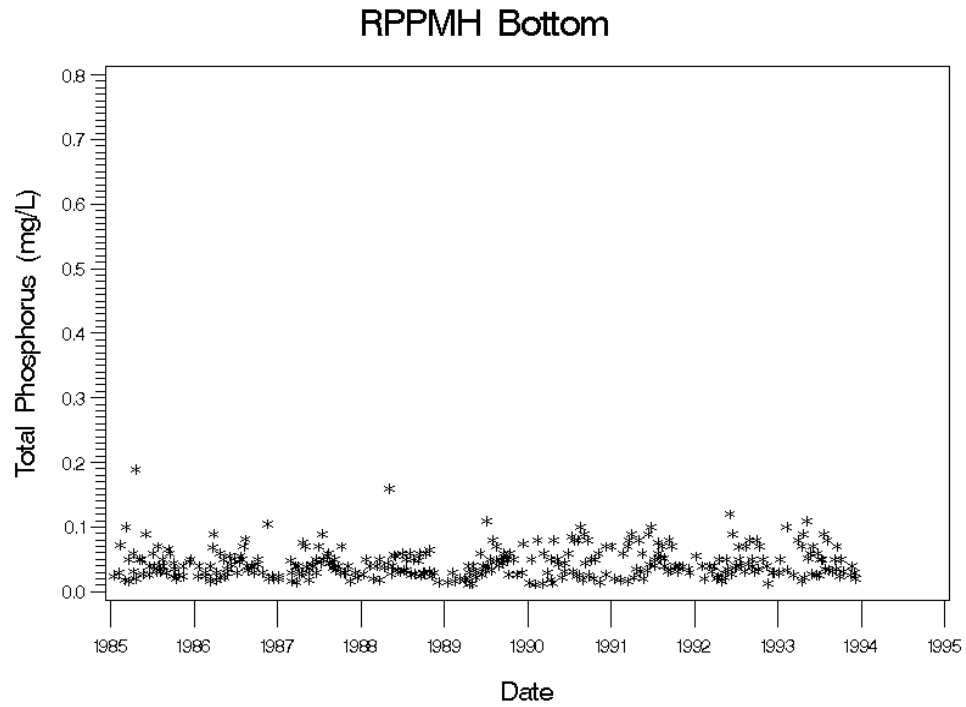


Figure 48. Scatterplots of bottom dissolved inorganic nitrogen at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

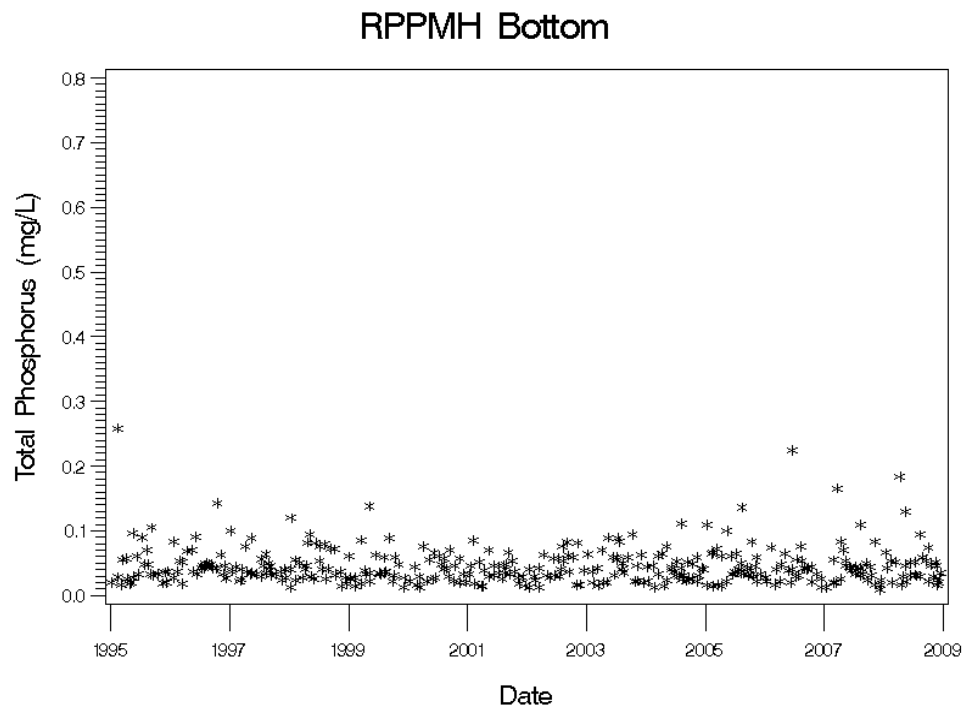
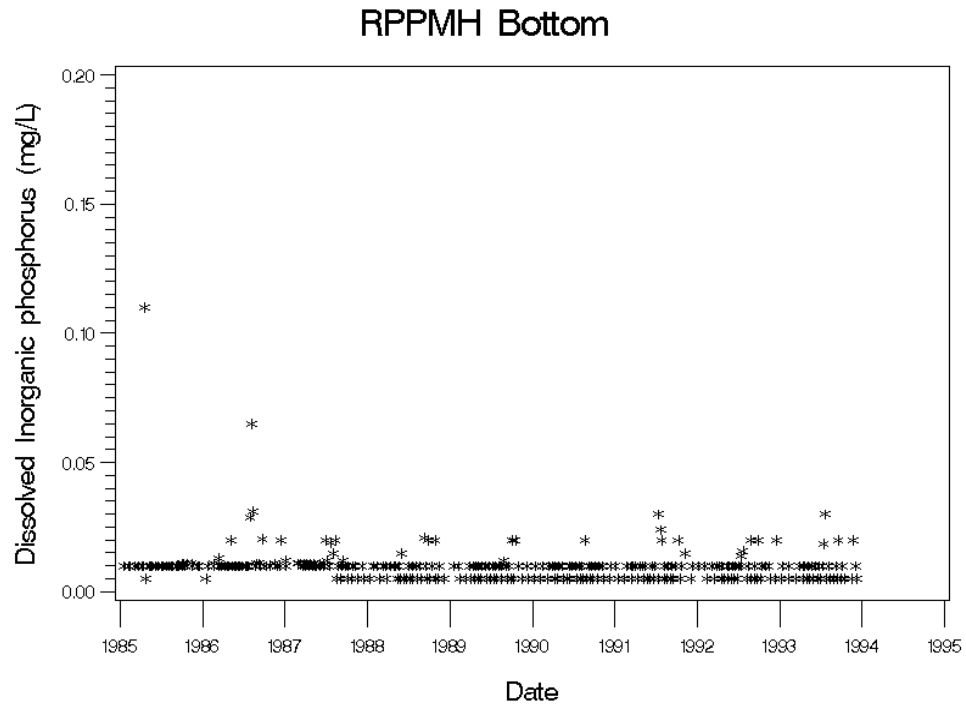


Figure 49. Scatterplots of bottom total phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

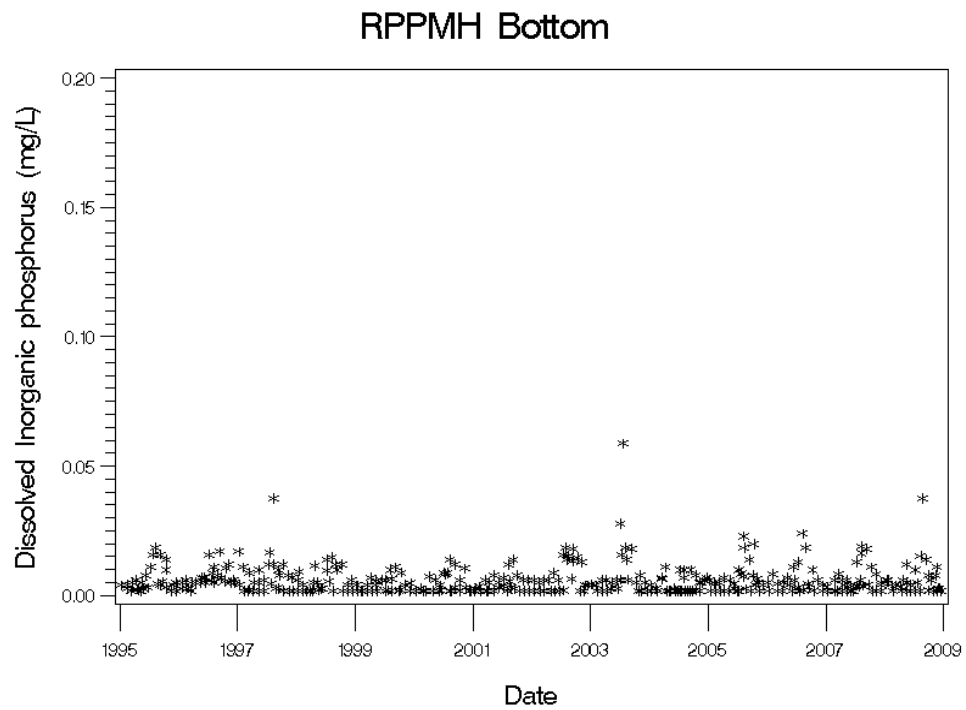


Figure 50. Scatterplots of bottom dissolved inorganic phosphorus at segment RPPMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

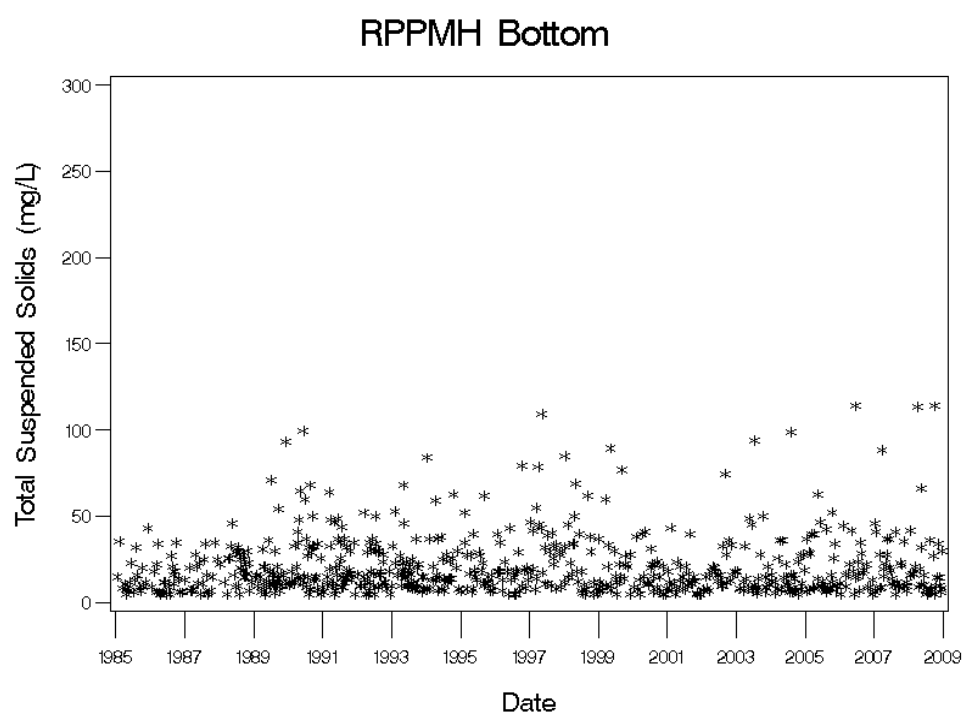


Figure 51. Scatterplot of bottom total suspended solids at segment RPPMH during the period 1985 to 2008.

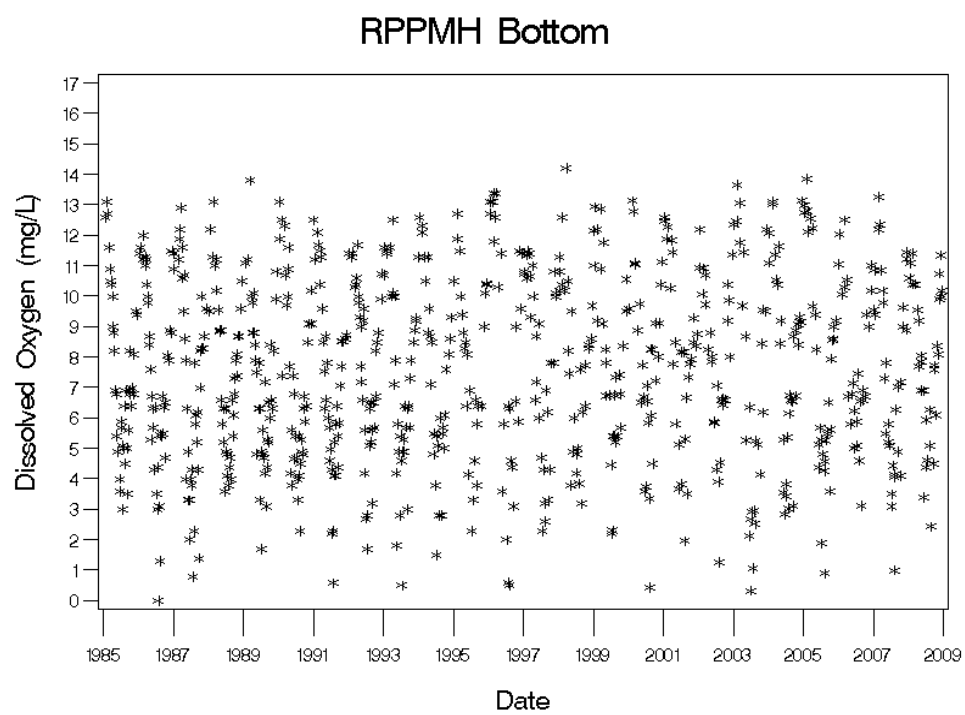


Figure 52. Scatterplot of bottom dissolved oxygen at segment RPPMH during the period 1985 to 2008.

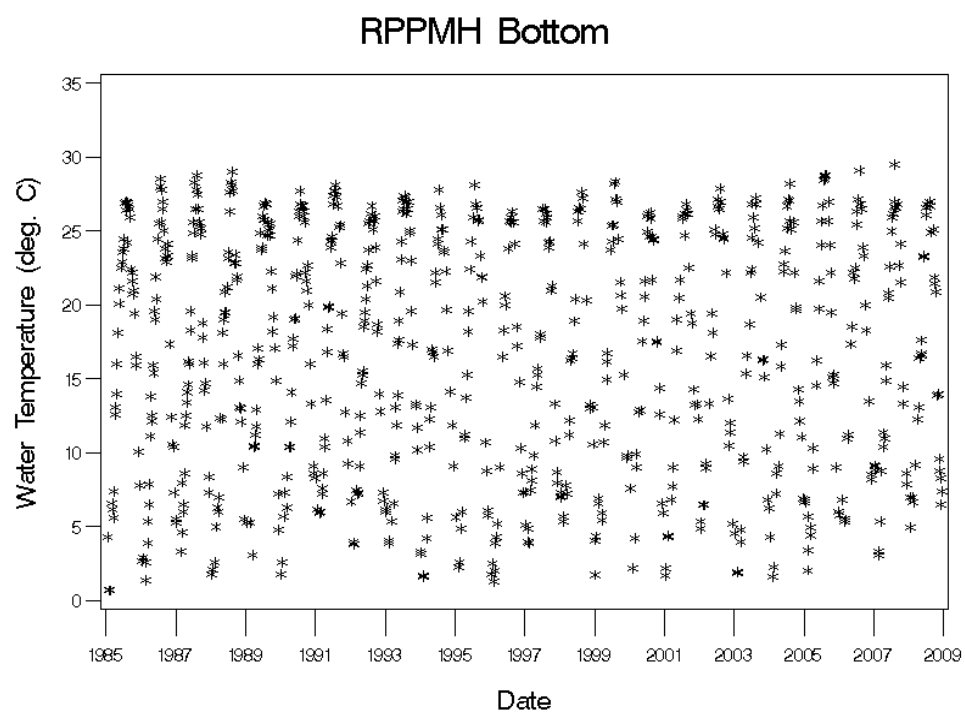


Figure 53. Scatterplot of bottom water temperature at segment RPPMH during the period 1985 to 2008.

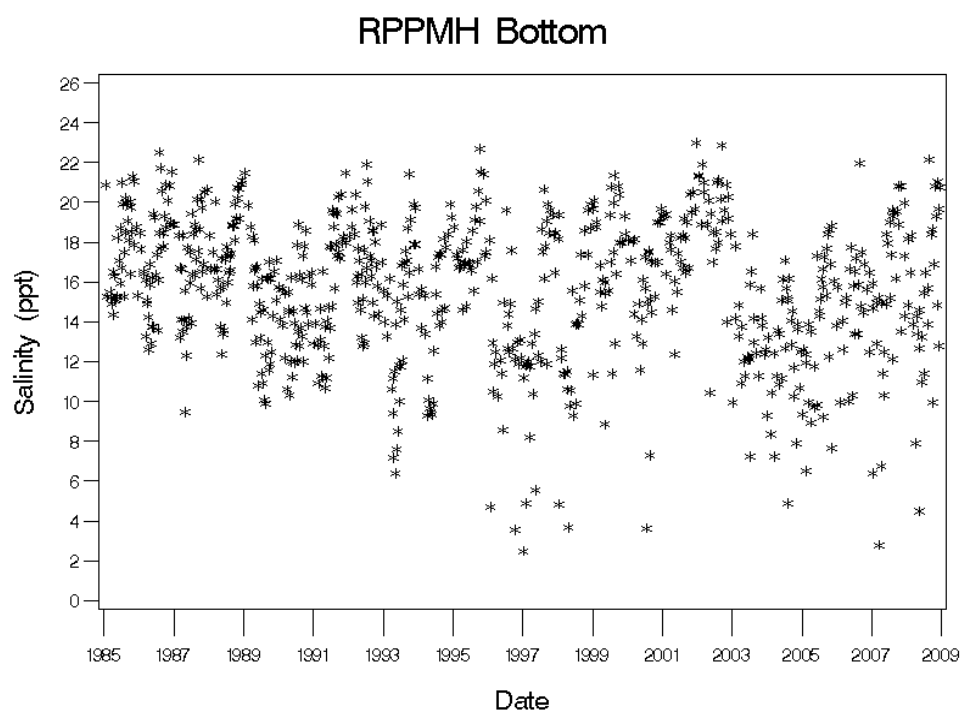
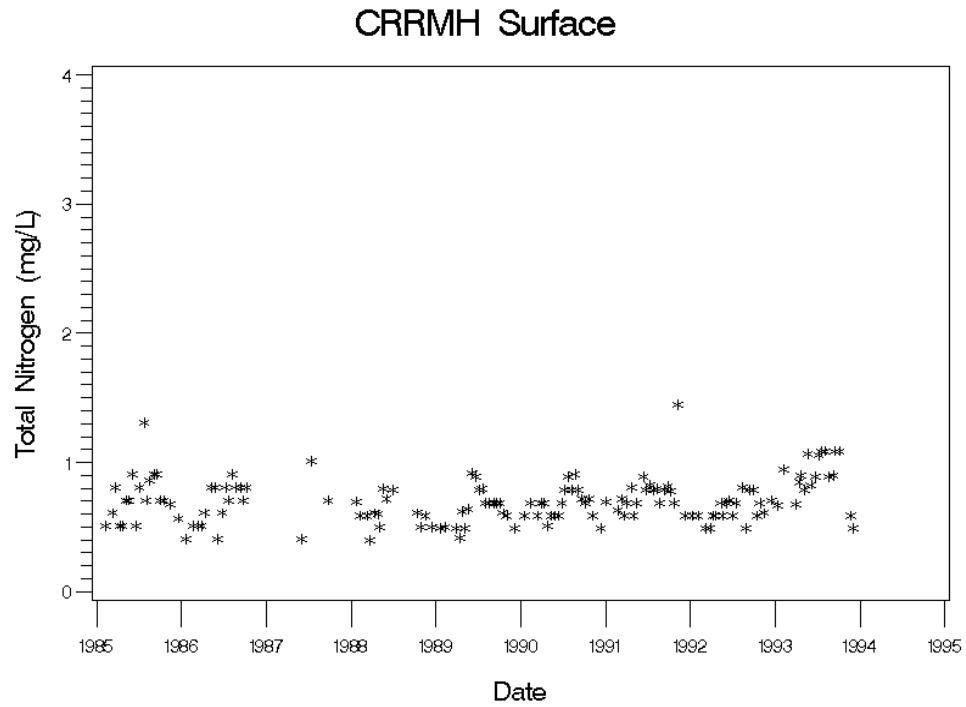


Figure 54. Scatterplot of bottom salinity at segment RPPMH during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

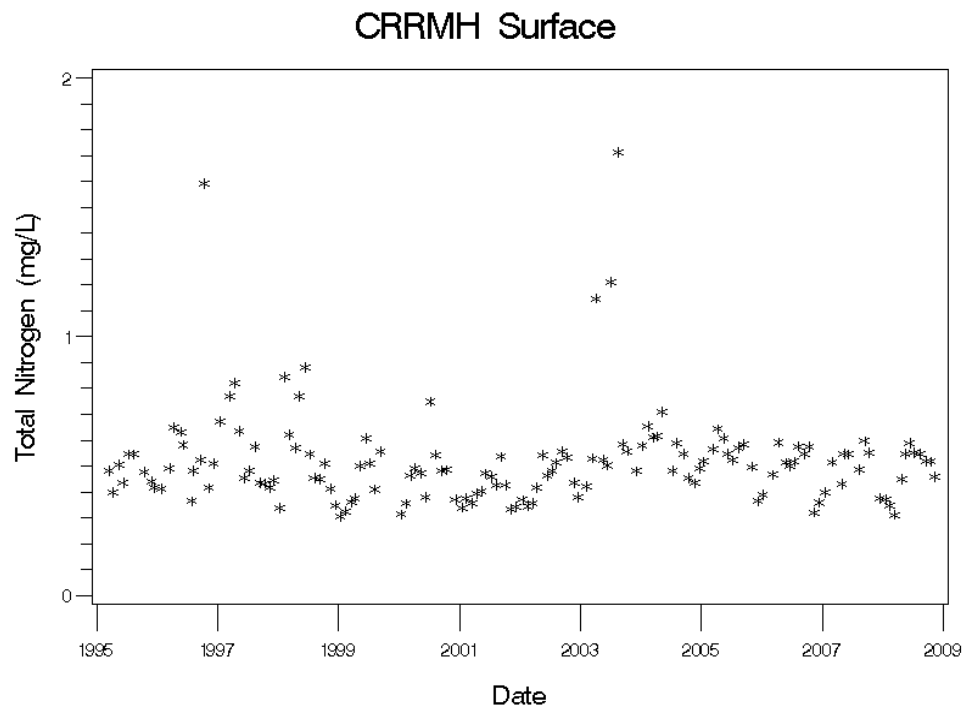
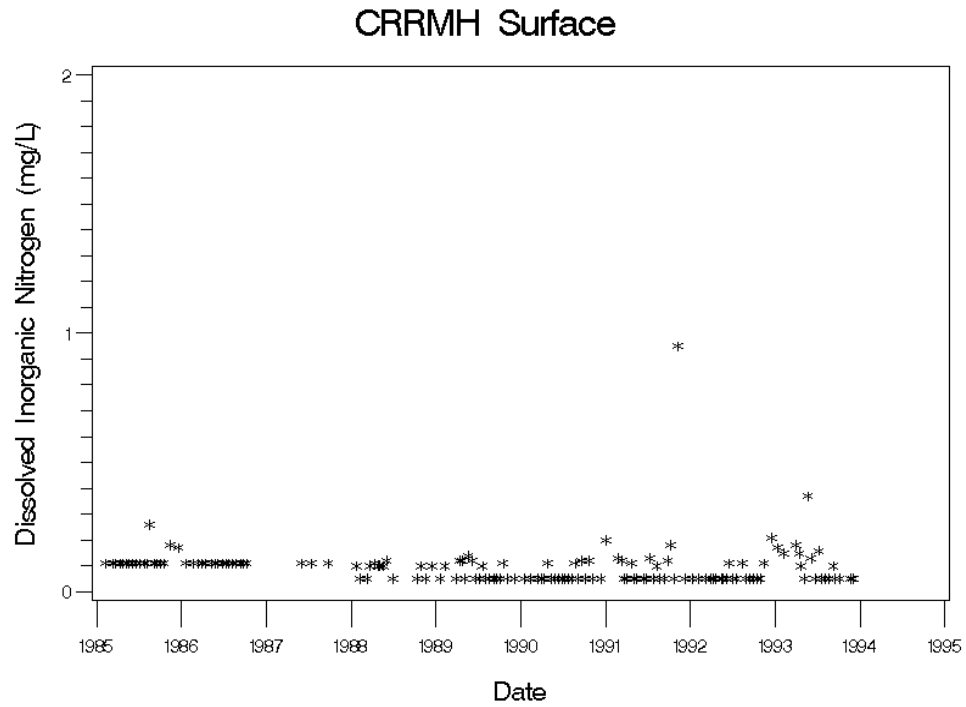


Figure 55. Scatterplots of surface total nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

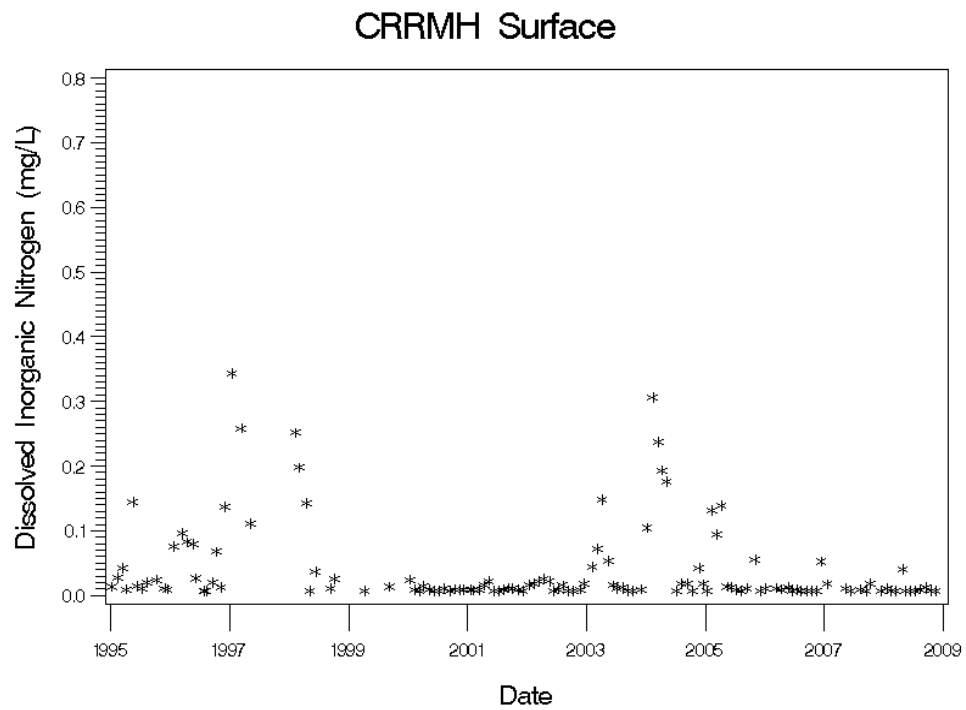
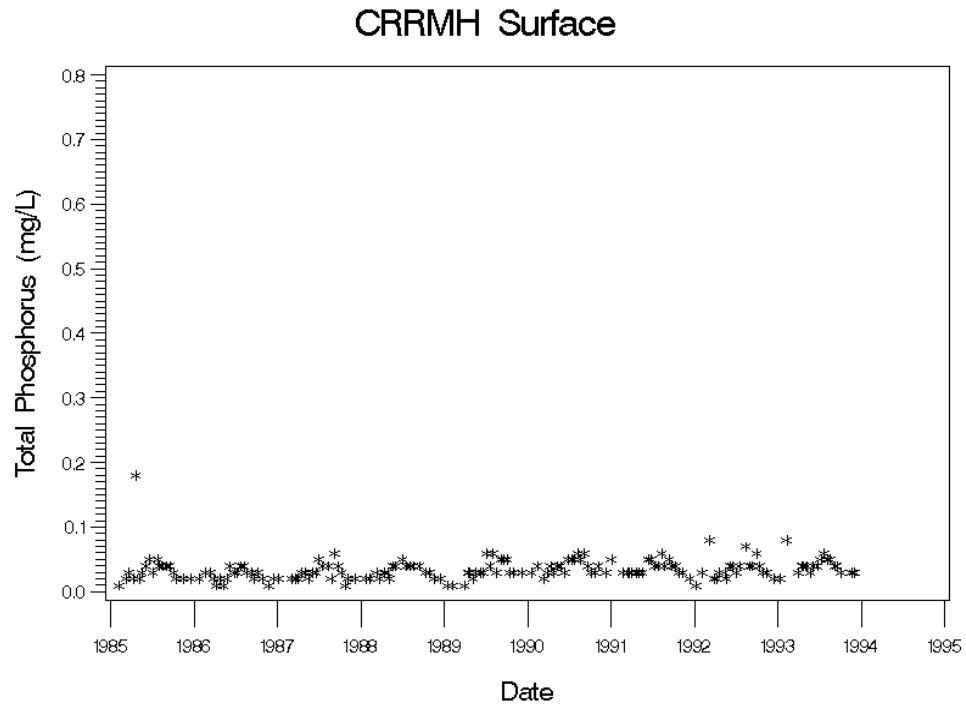


Figure 56. Scatterplots of surface dissolved inorganic nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

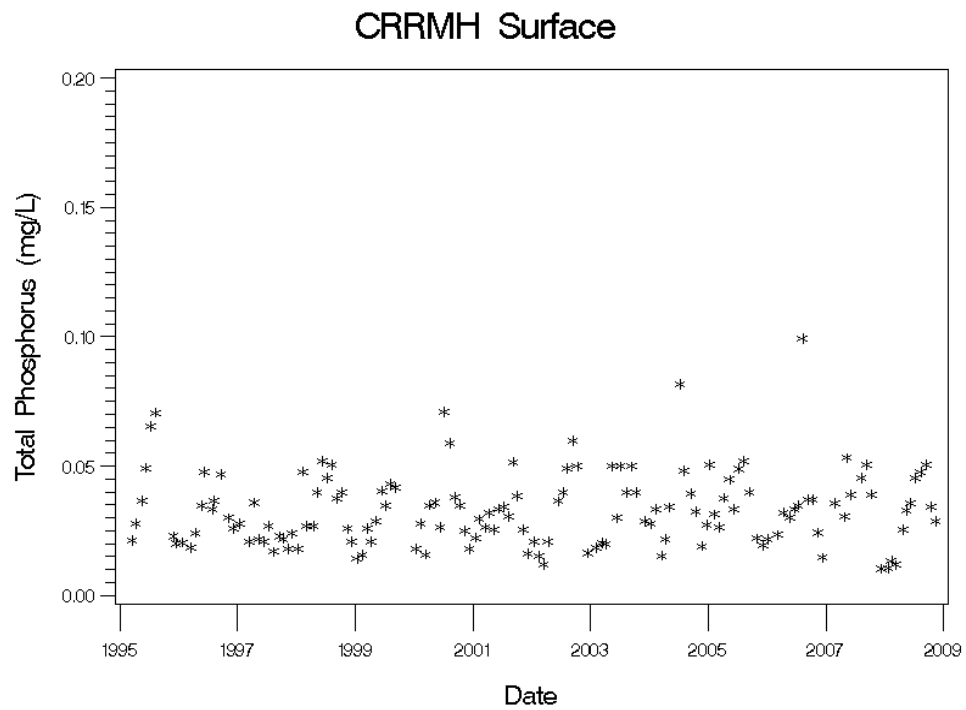
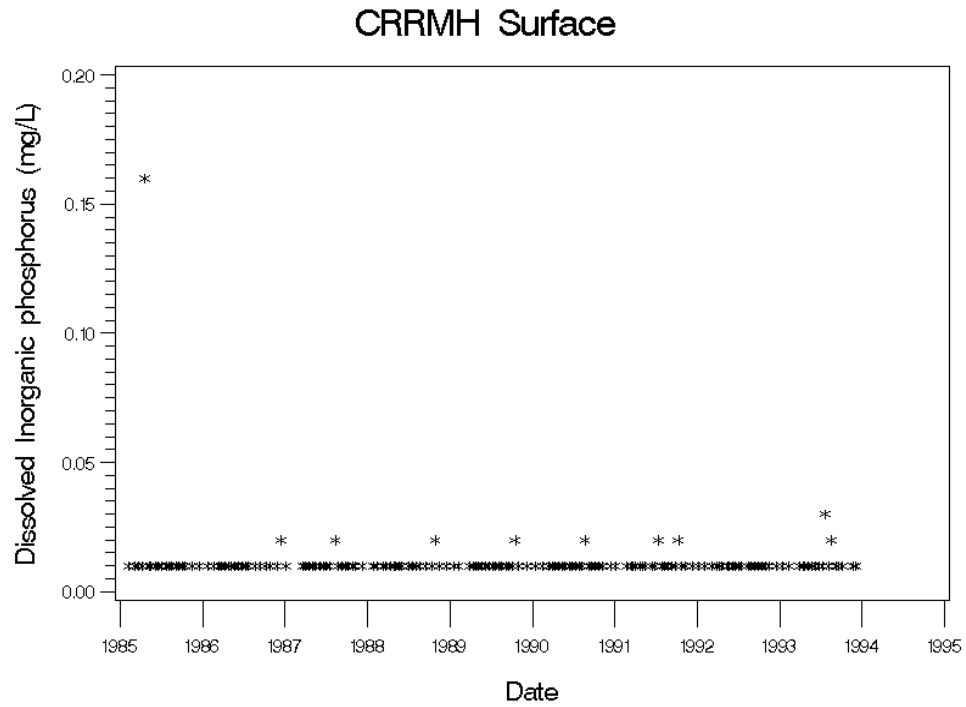


Figure 57. Scatterplots of surface total phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

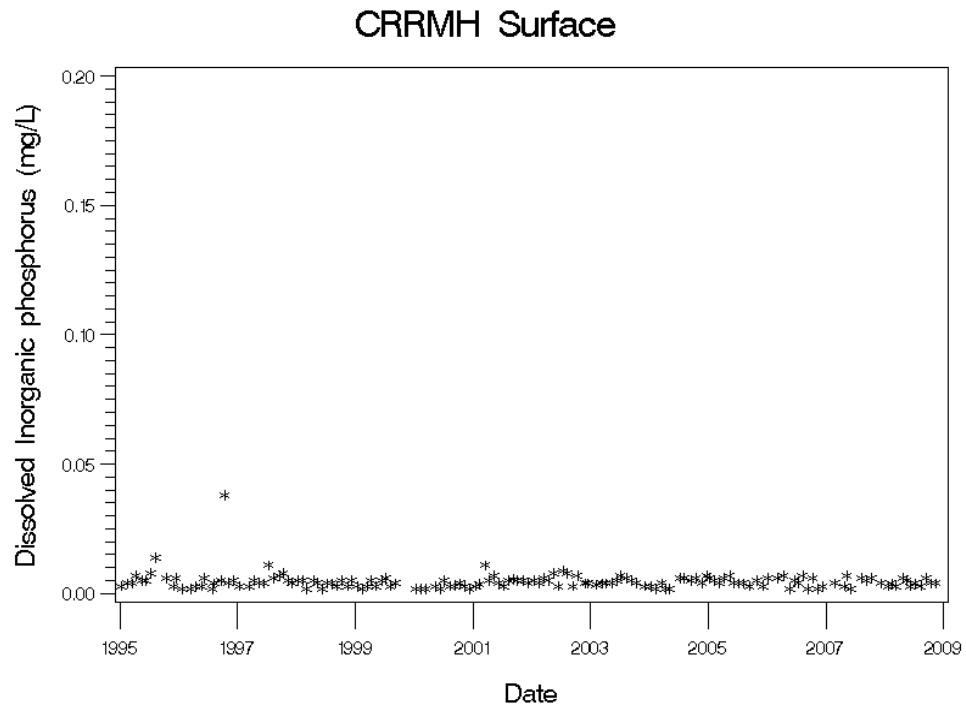


Figure 58. Scatterplots of surface dissolved inorganic phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

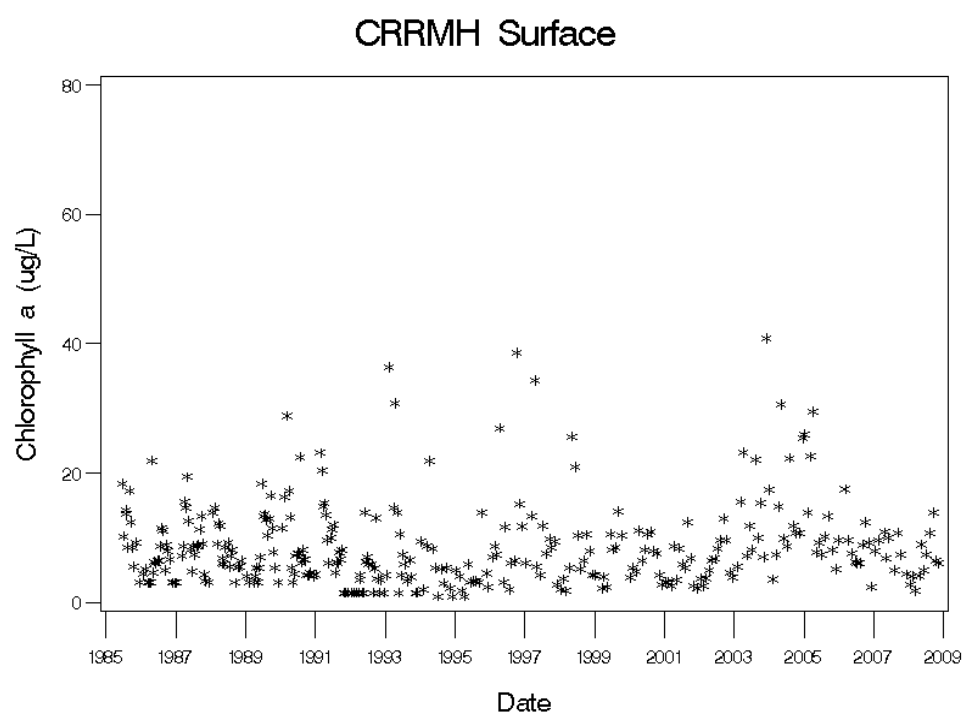


Figure 59. Scatterplot of surface chlorophyll a at segment CRRMH during the period 1985 to 2008.

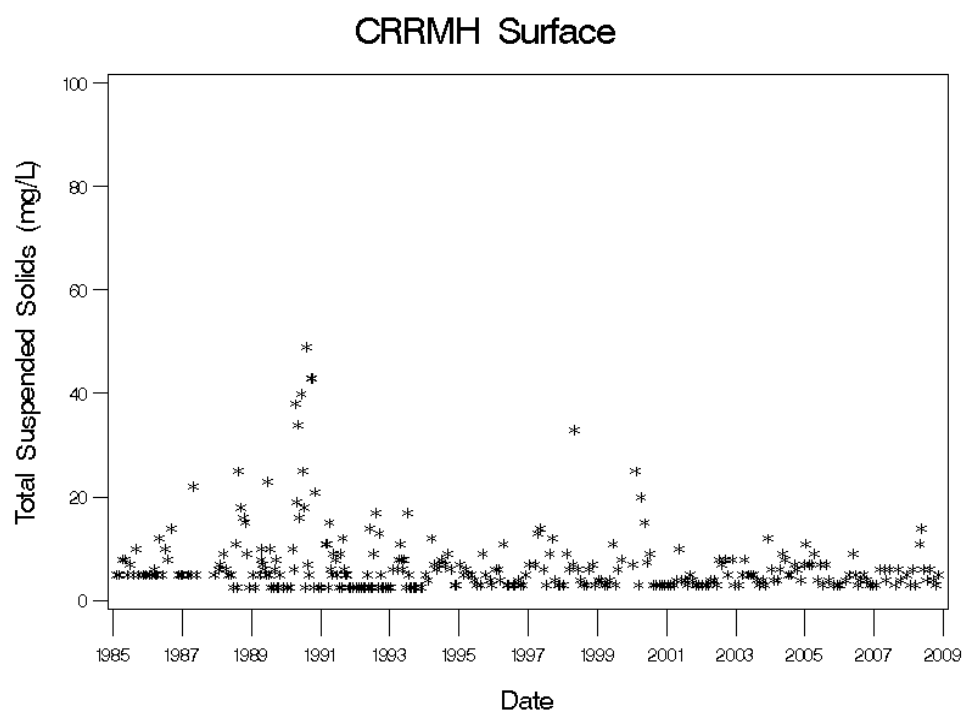


Figure 60. Scatterplot of surface total suspended solids at segment CRRMH during the period 1985 to 2008.

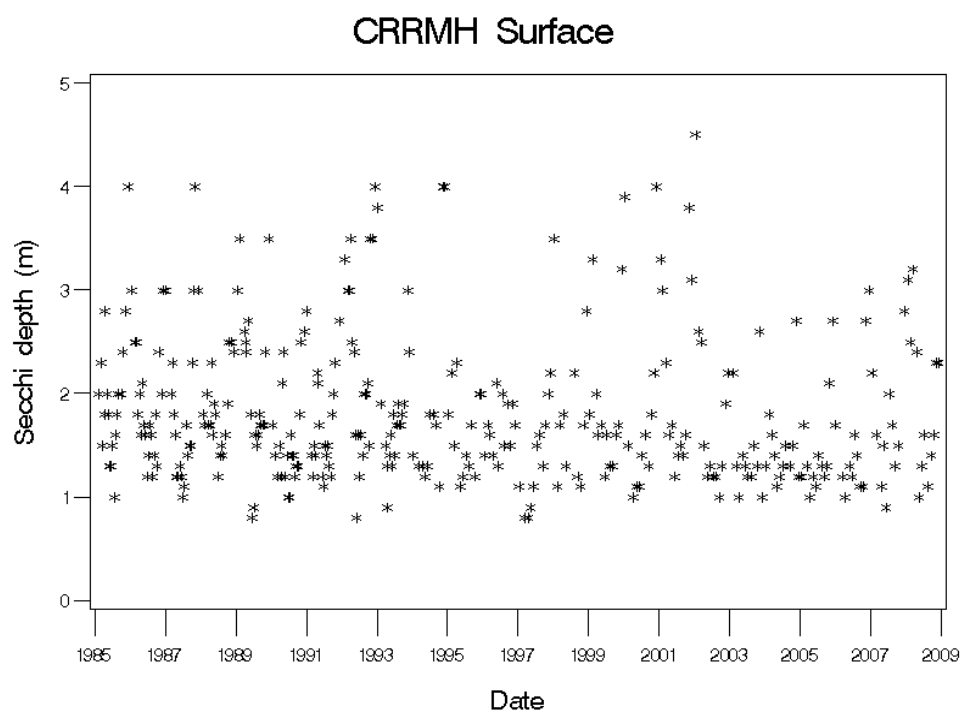


Figure 61. Scatterplot of secchi depth at segment CRRMH during the period 1985 to 2008.

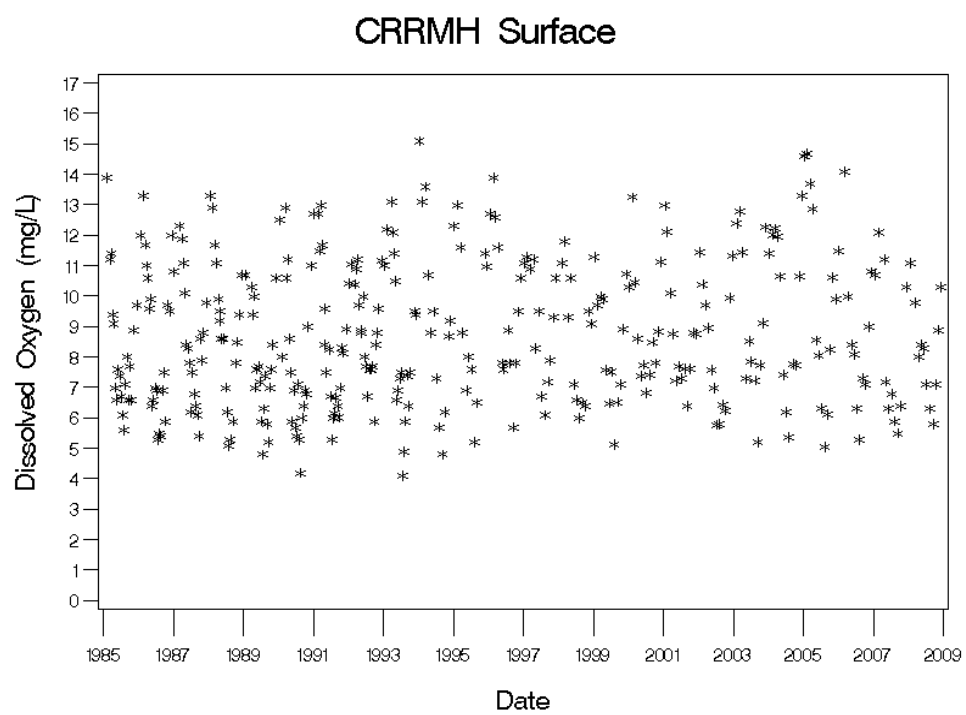


Figure 62. Scatterplot of surface dissolved oxygen at segment CRRMH during the period 1985 to 2008.

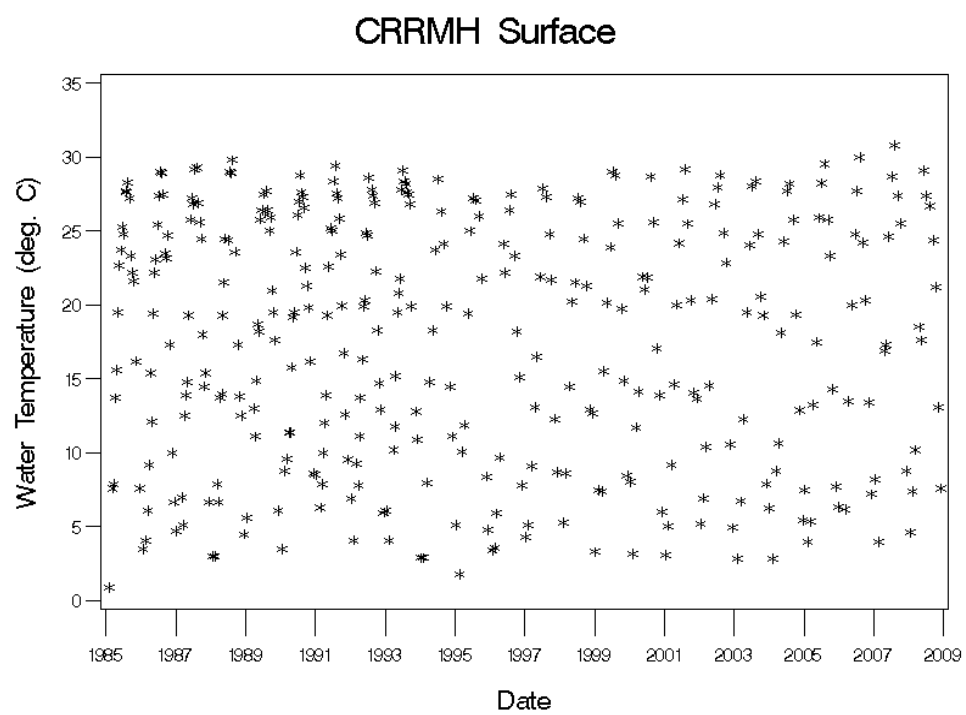


Figure 63. Scatterplot of surface water temperature at segment CRRMH during the period 1985 to 2008.

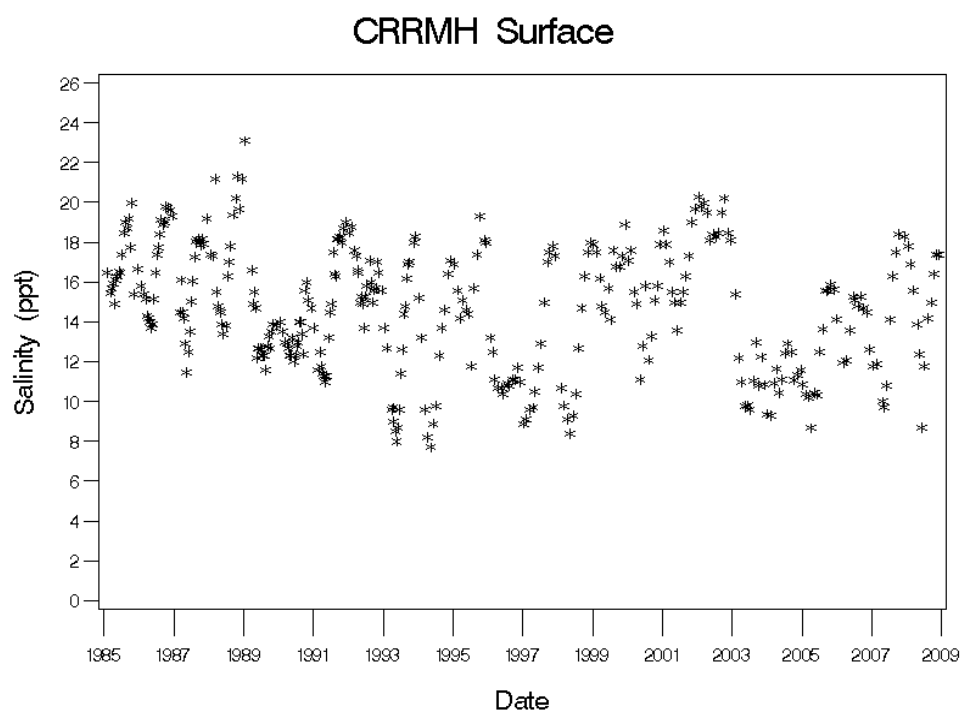
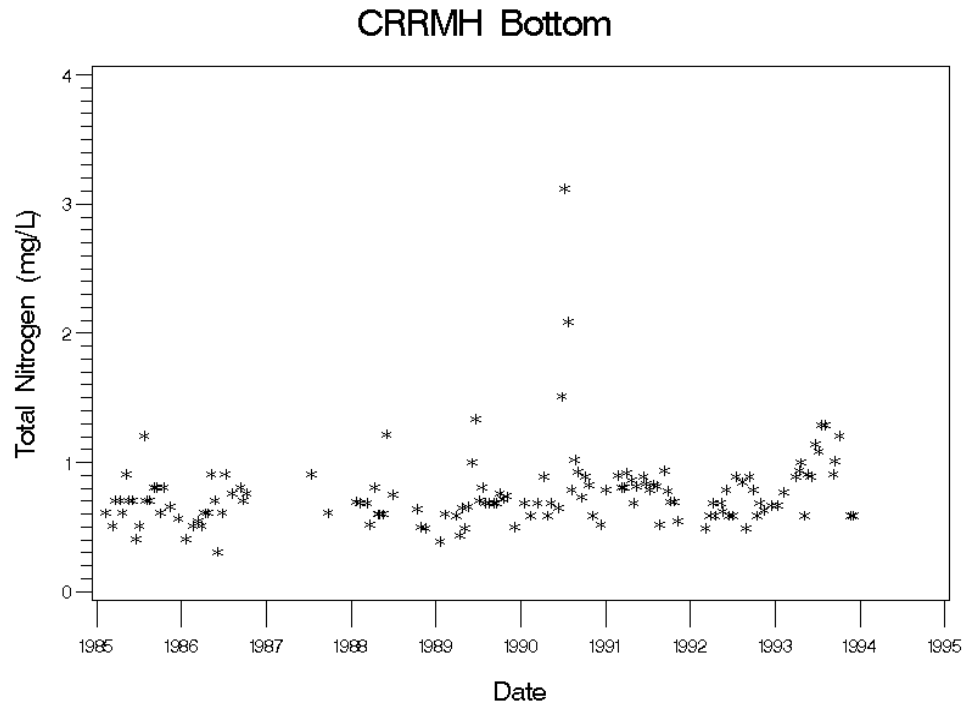


Figure 64. Scatterplot of surface salinity at segment CRRMH during the period 1985 to 2008.

a) Pre-method change period



b) Post-method change period

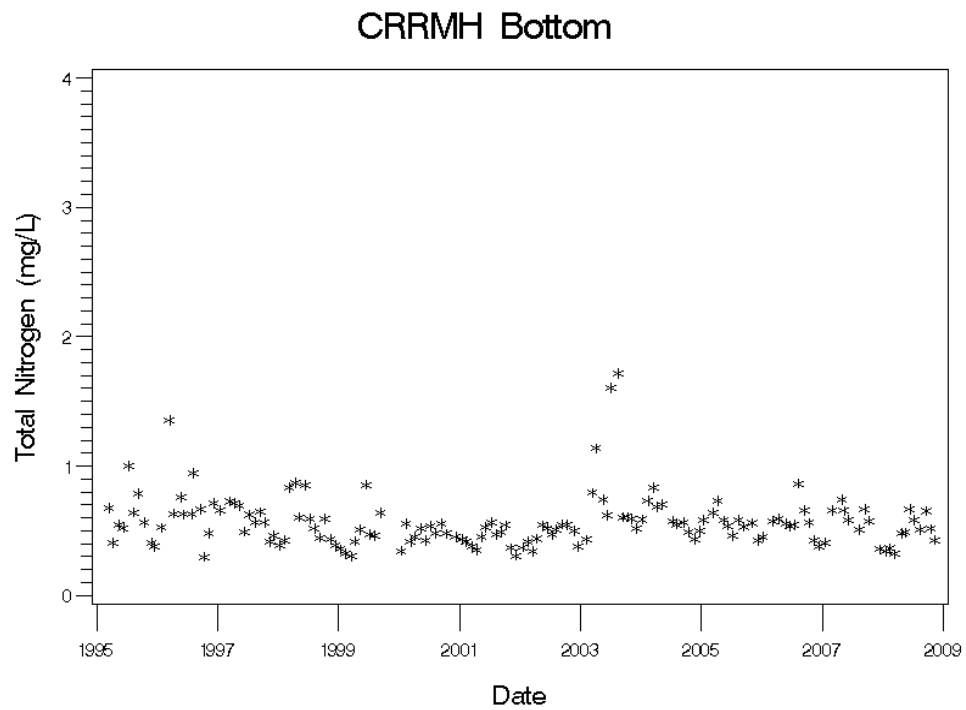
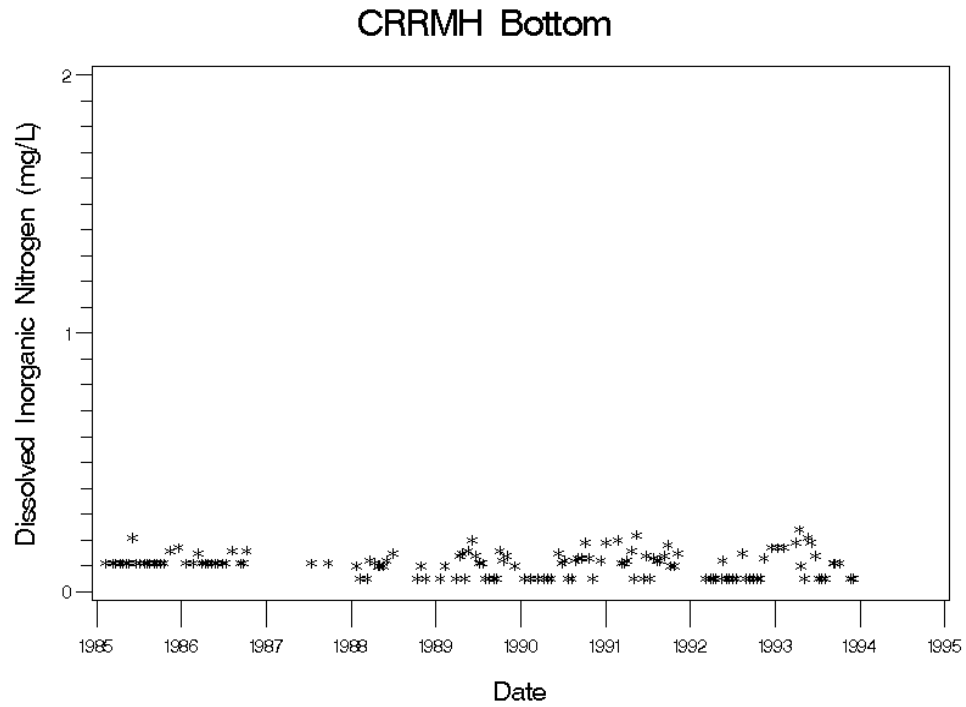


Figure 65. Scatterplots of bottom total nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

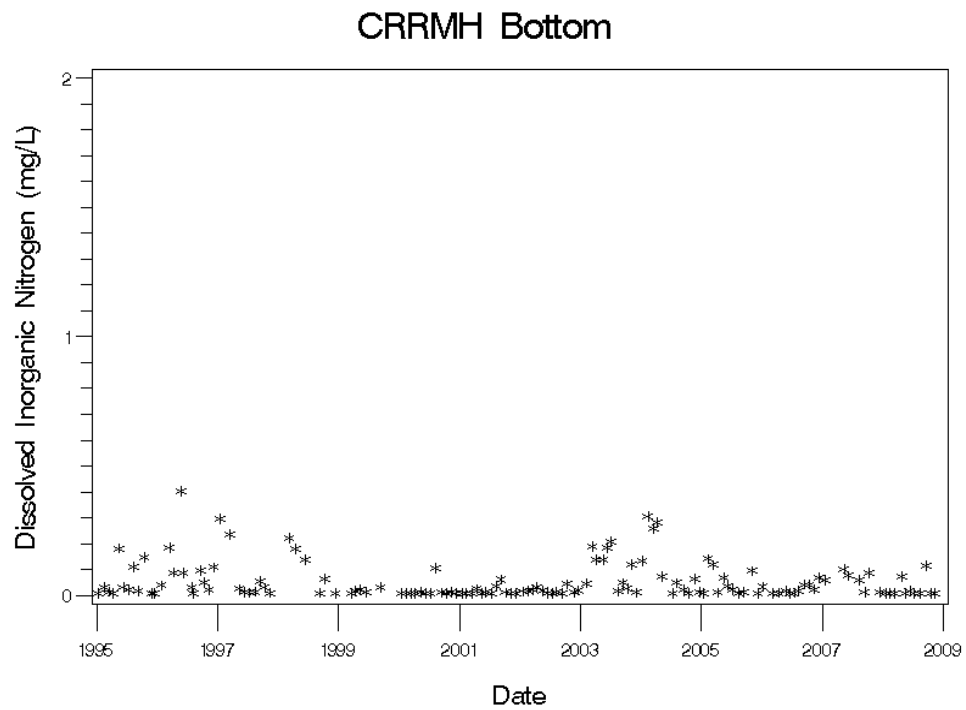
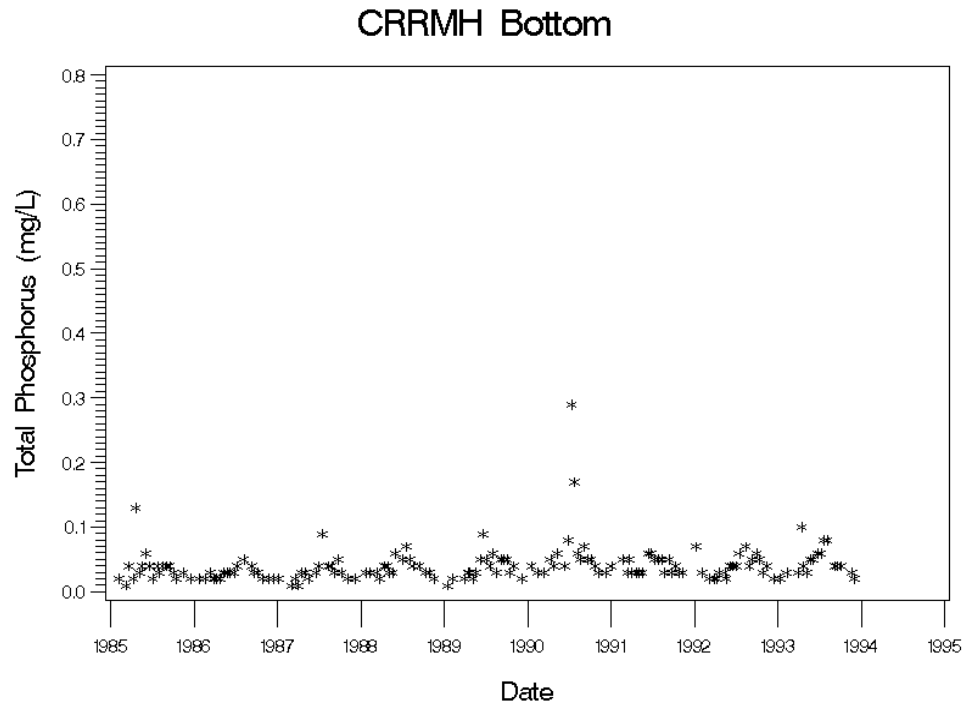


Figure 66. Scatterplots of bottom dissolved inorganic nitrogen at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

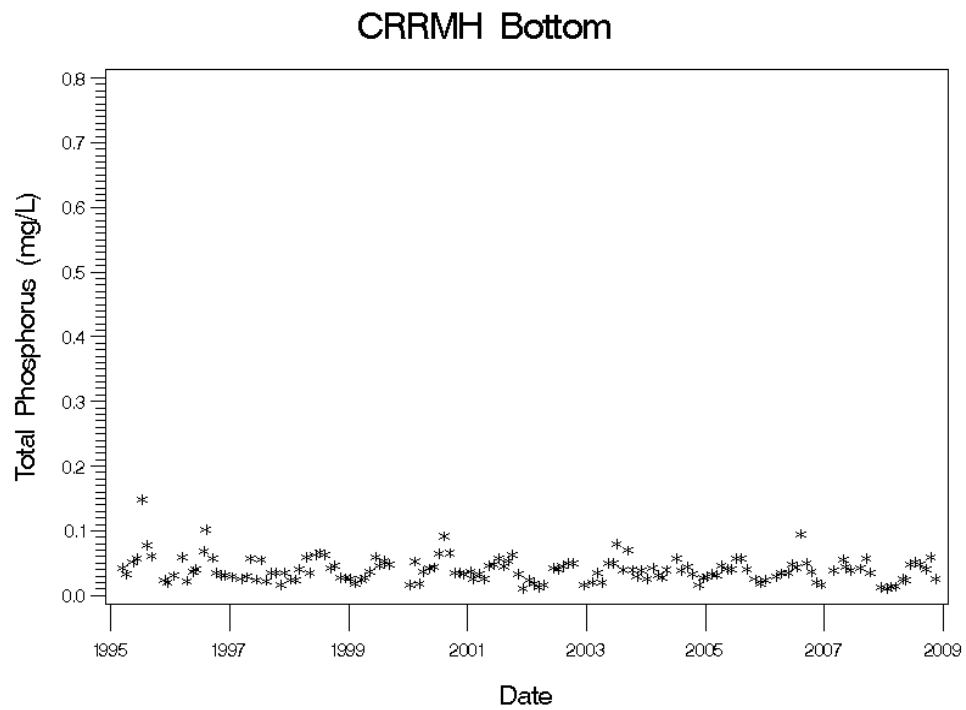
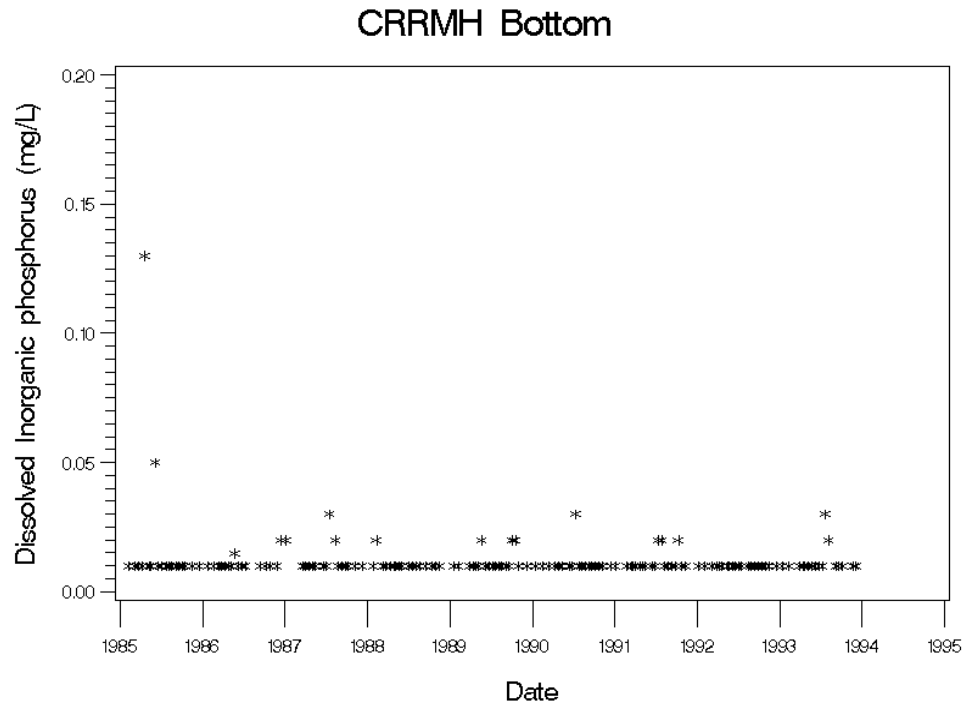


Figure 67. Scatterplots of bottom total phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

a) Pre-method change period



b) Post-method change period

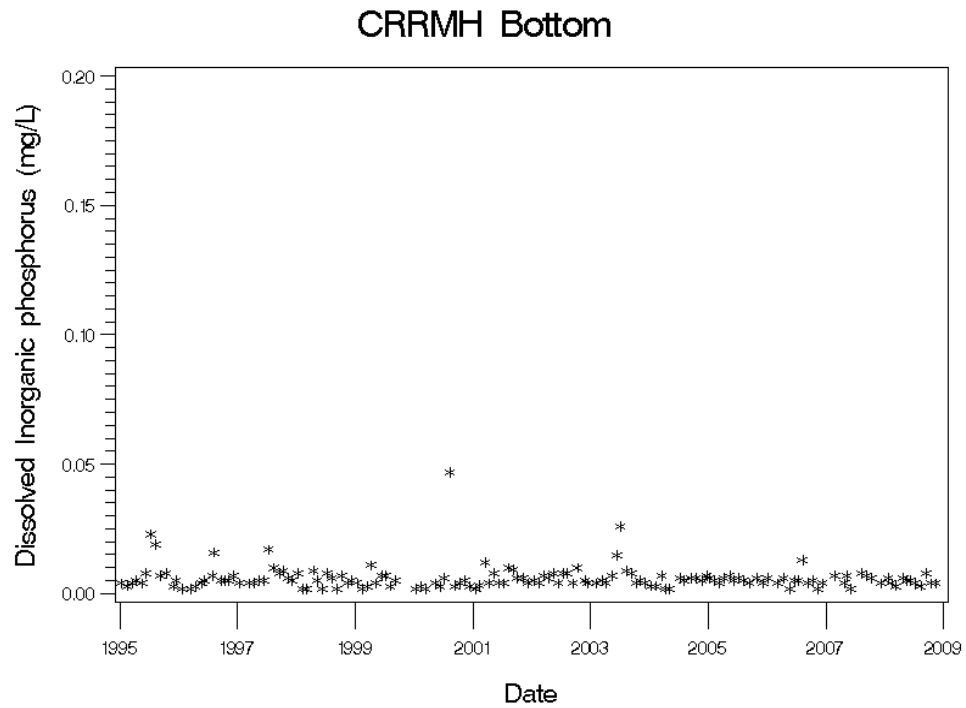


Figure 68. Scatterplots of bottom dissolved inorganic phosphorus at segment CRRMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2008) periods.

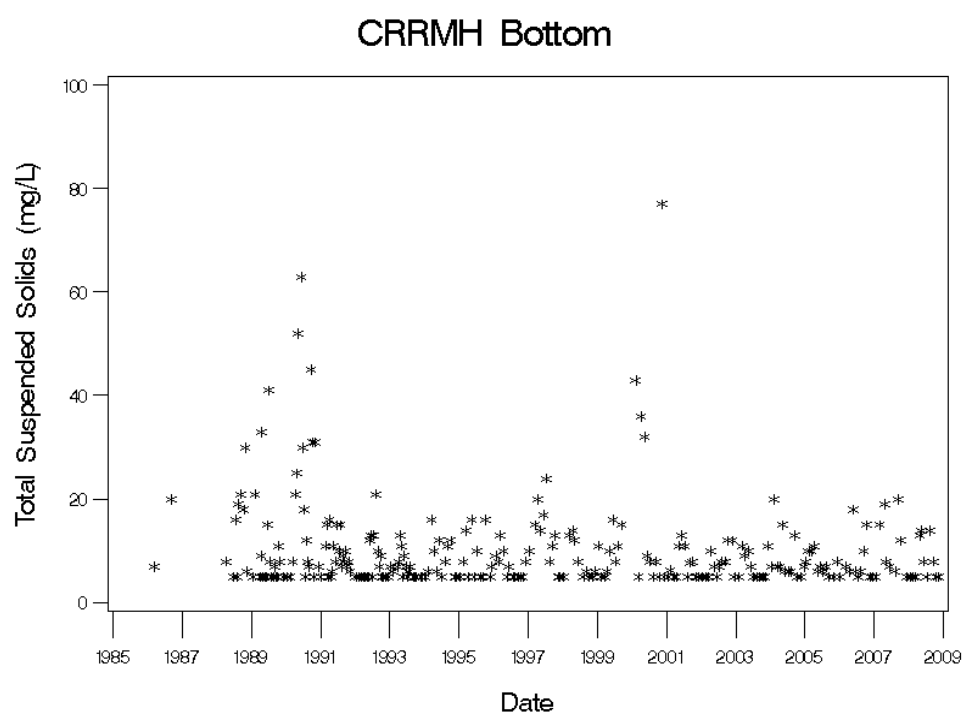


Figure 69. Scatterplot of bottom total suspended solids at segment CRRMH during the period 1985 to 2008.

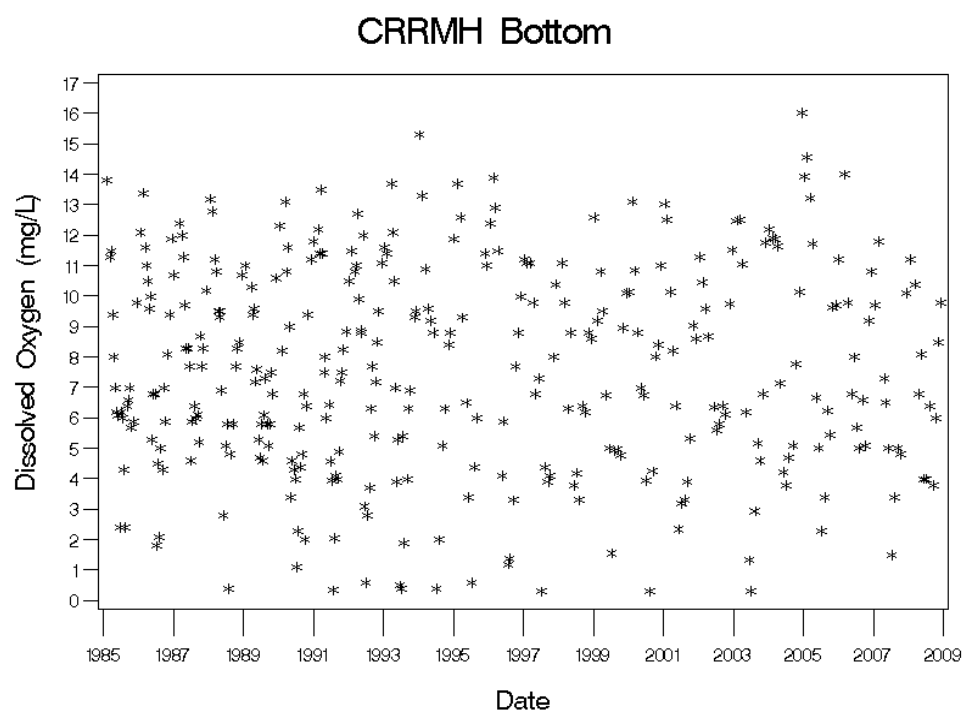


Figure 70. Scatterplot of bottom dissolved oxygen at segment CRRMH during the period 1985 to 2008.

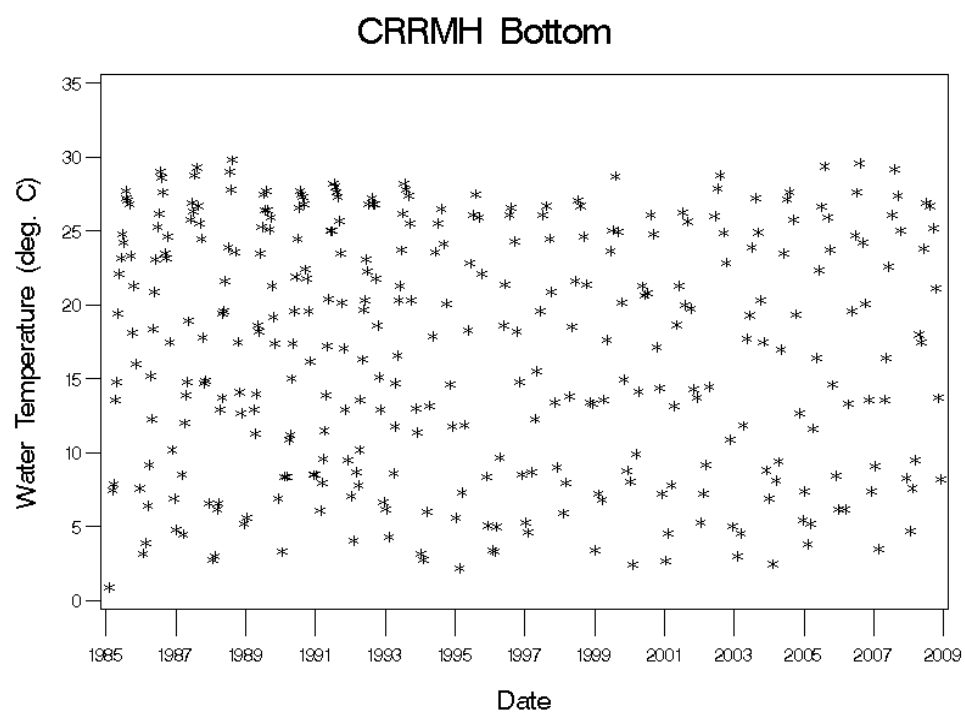


Figure 71. Scatterplot of bottom water temperature at segment CRRMH during the period 1985 to 2008.

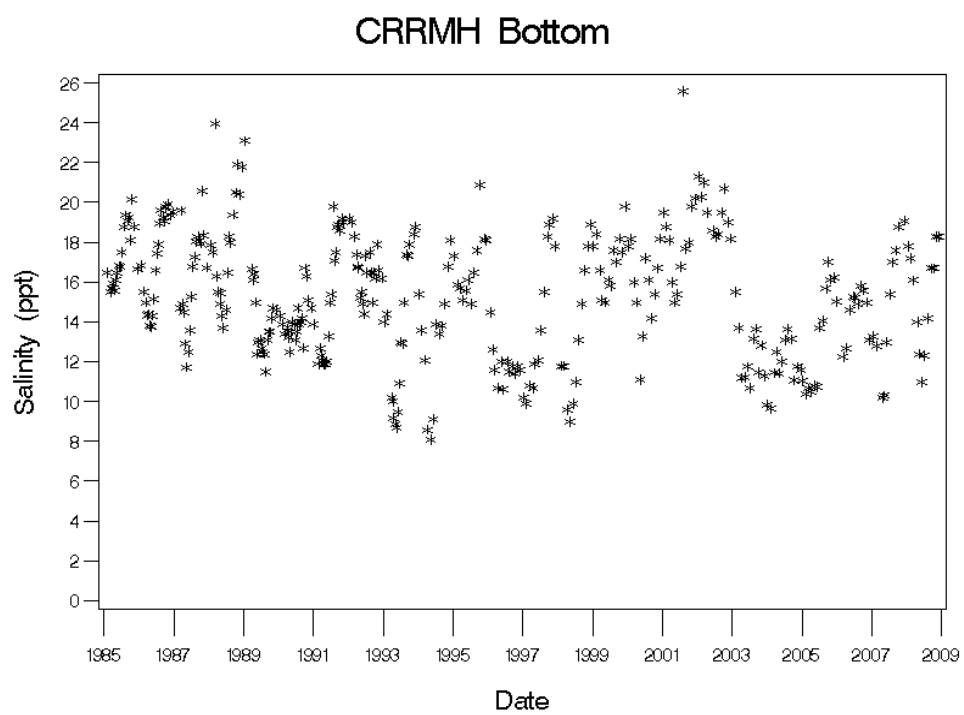


Figure 72. Scatterplot of bottom salinity at segment CRRMH during the period 1985 to 2008.