Appendix B – Scatterplots of Water Quality Parameters

Section - II Elizabeth River

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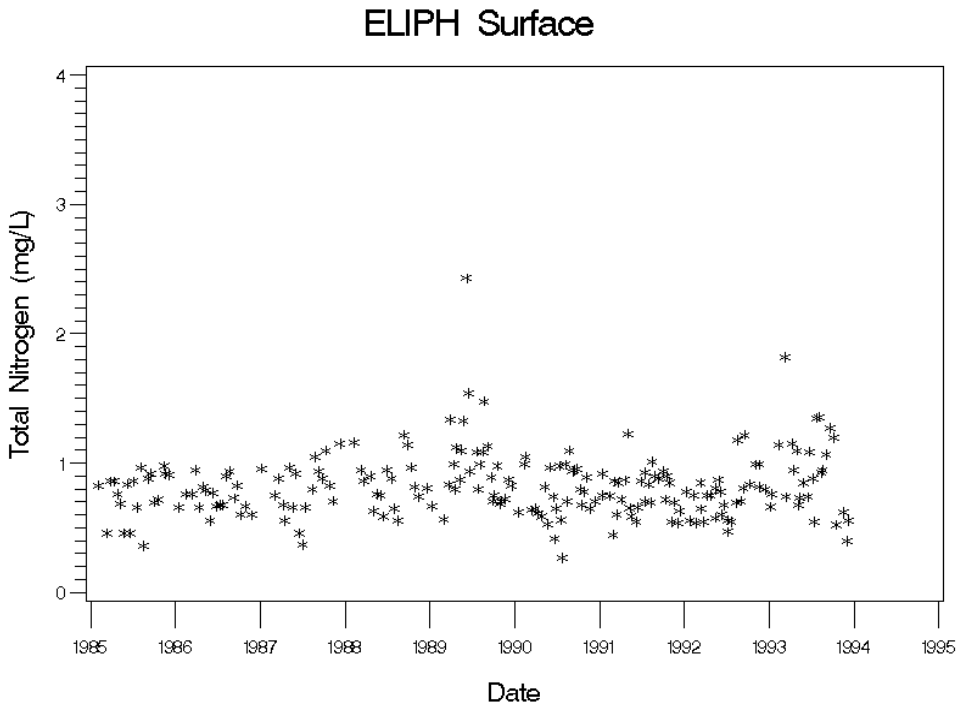

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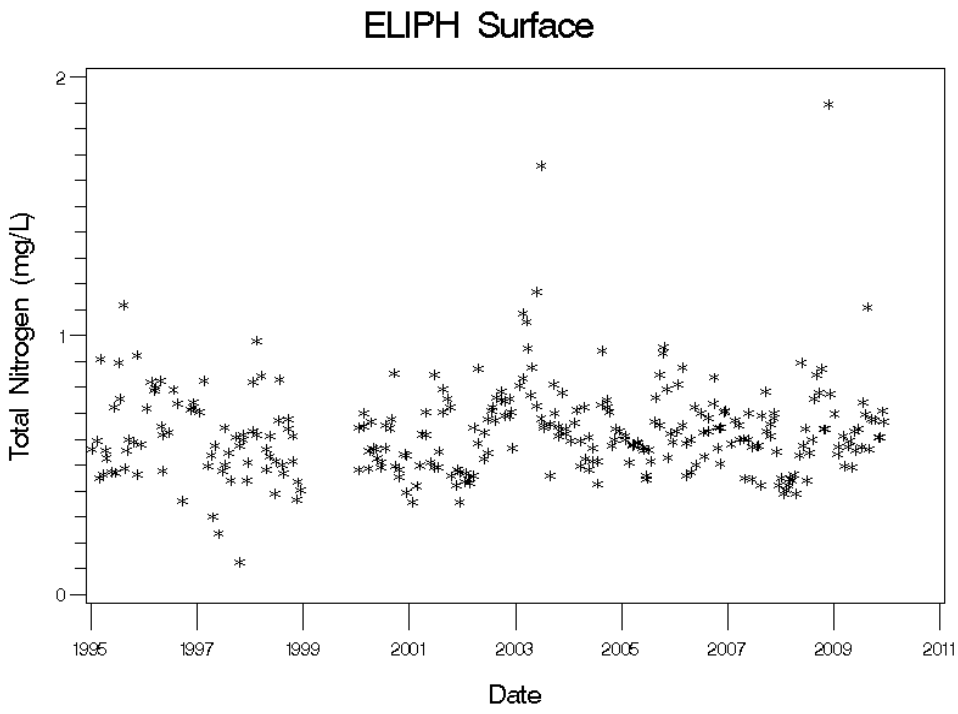
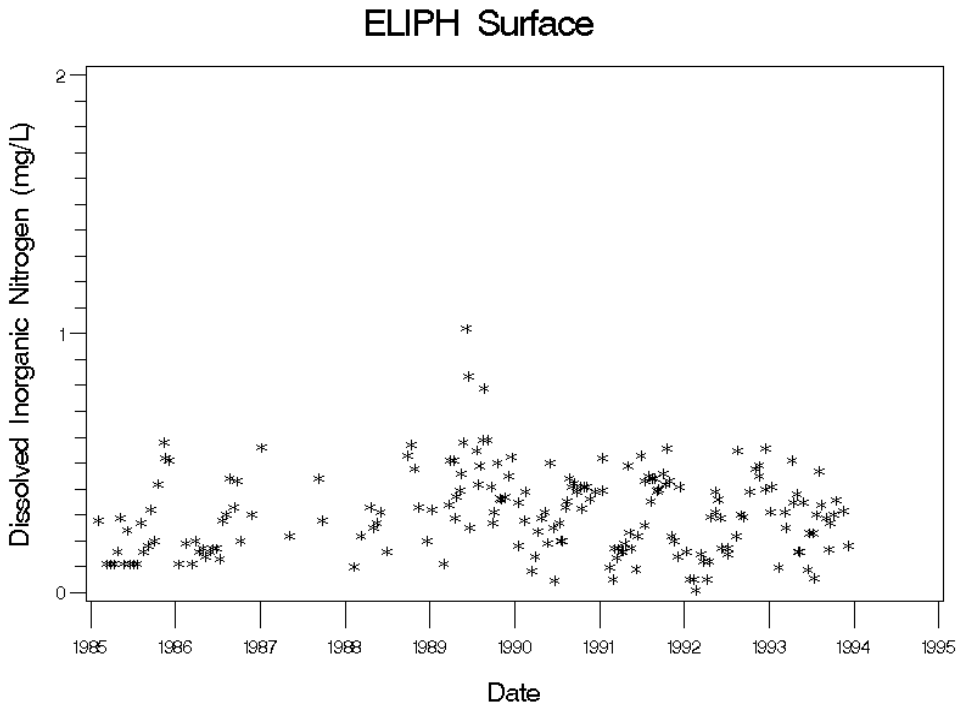


Figure 1. Scatterplots of surface total nitrogen at segment ELIPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



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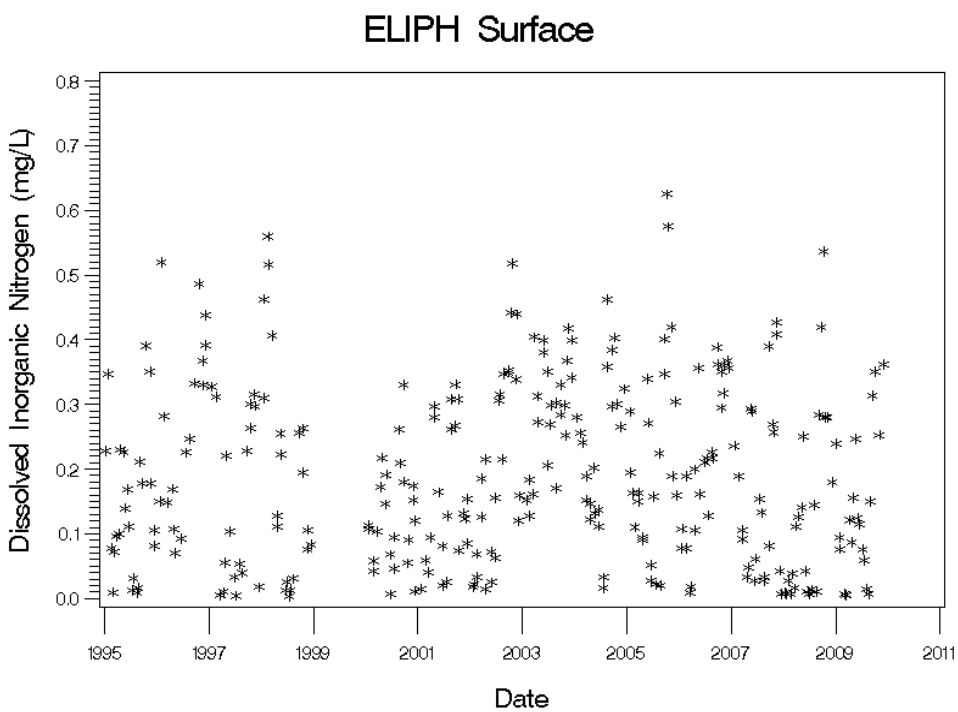

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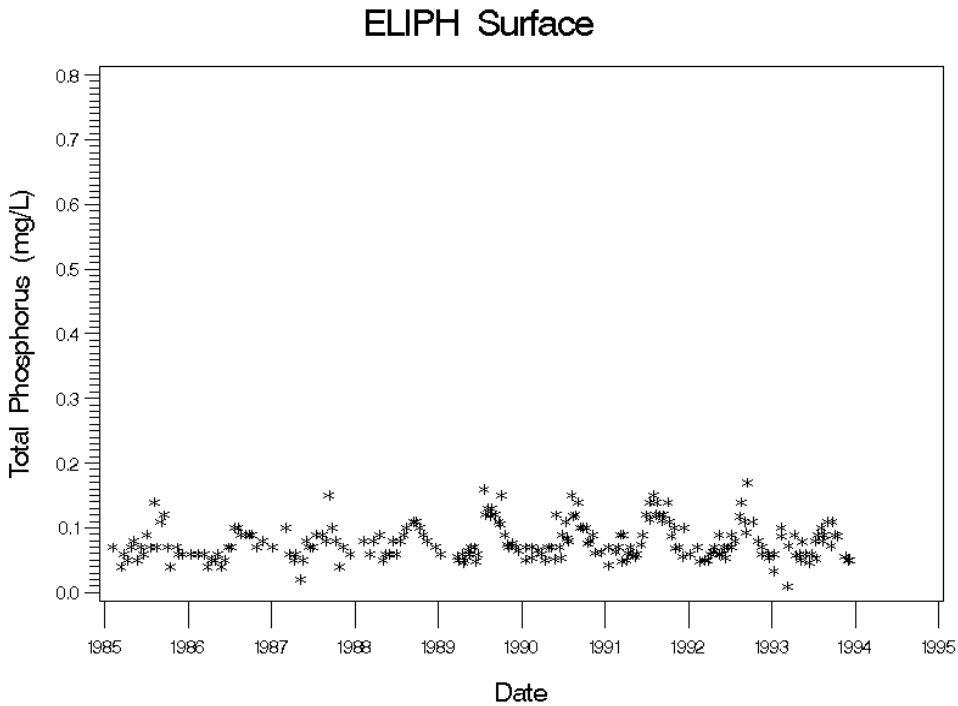

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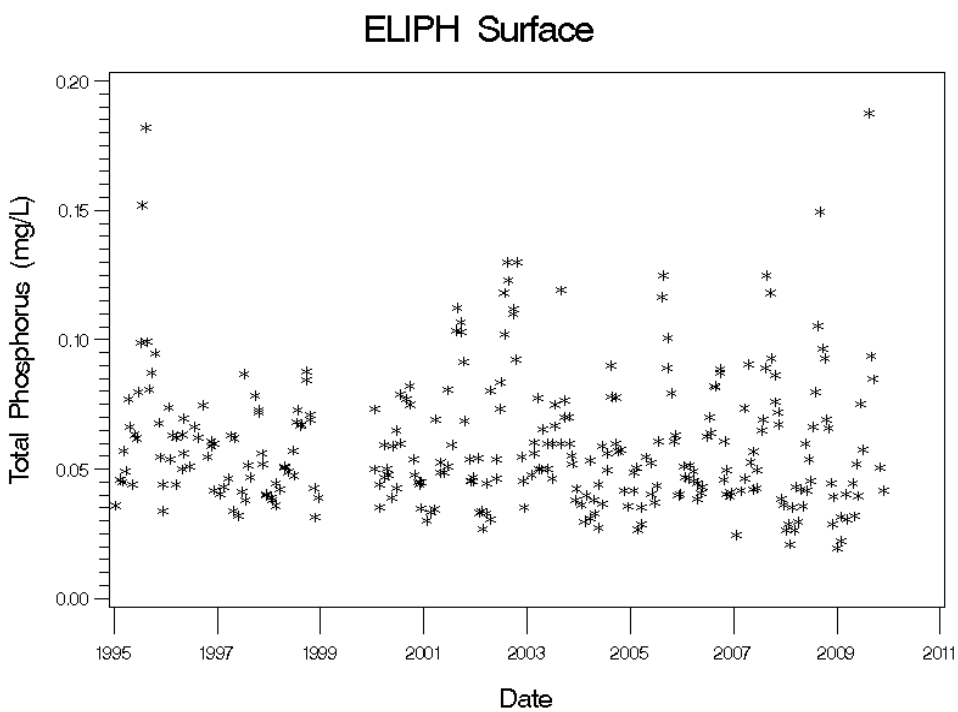

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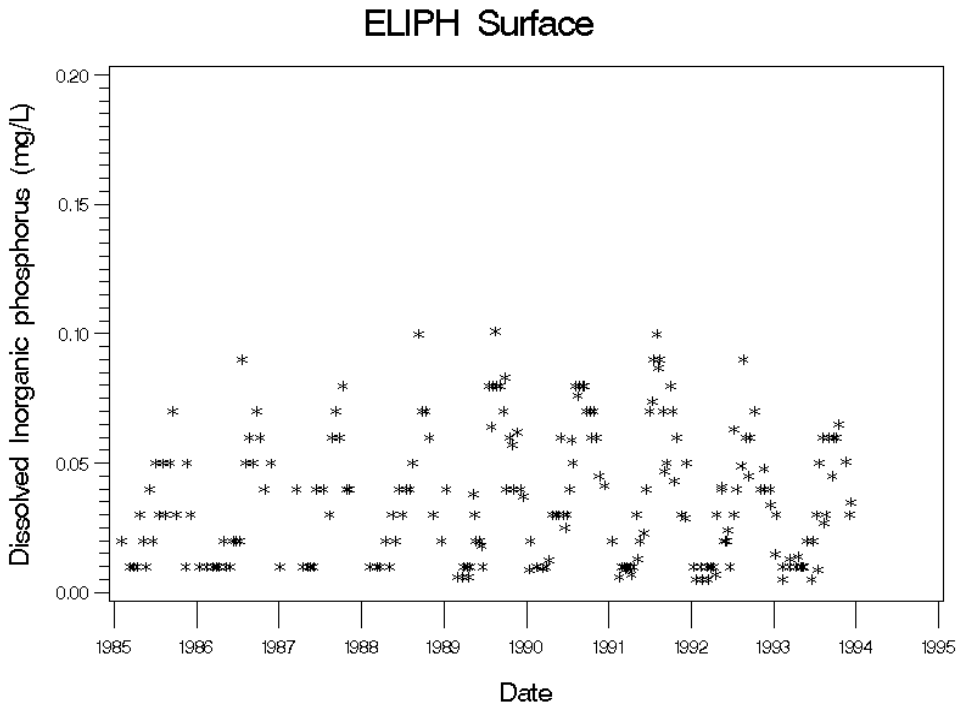
a) Pre-method change period



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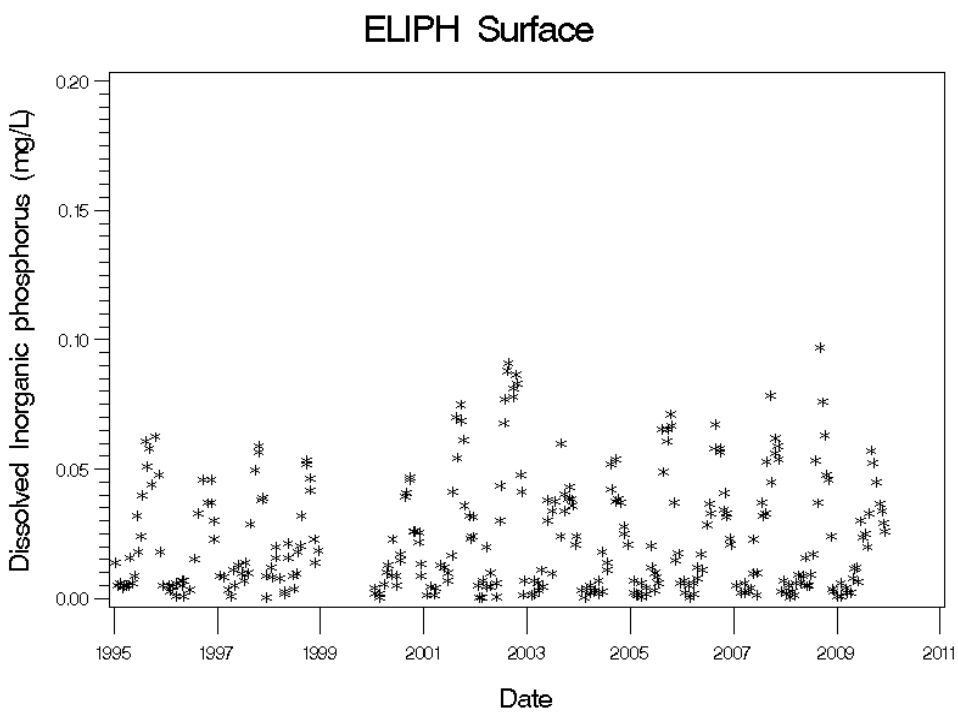

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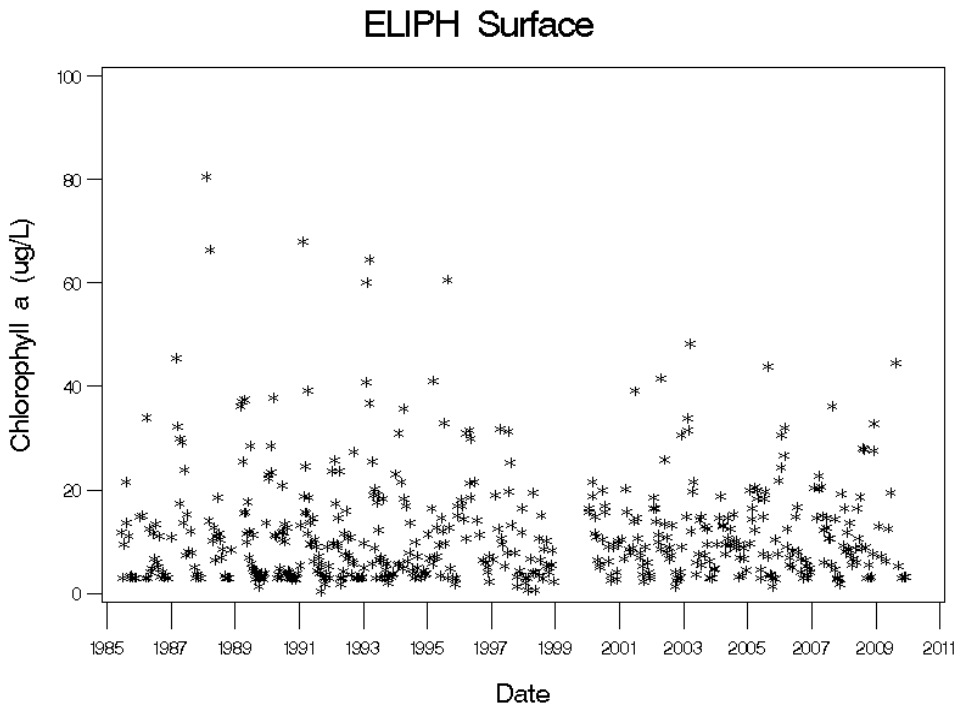
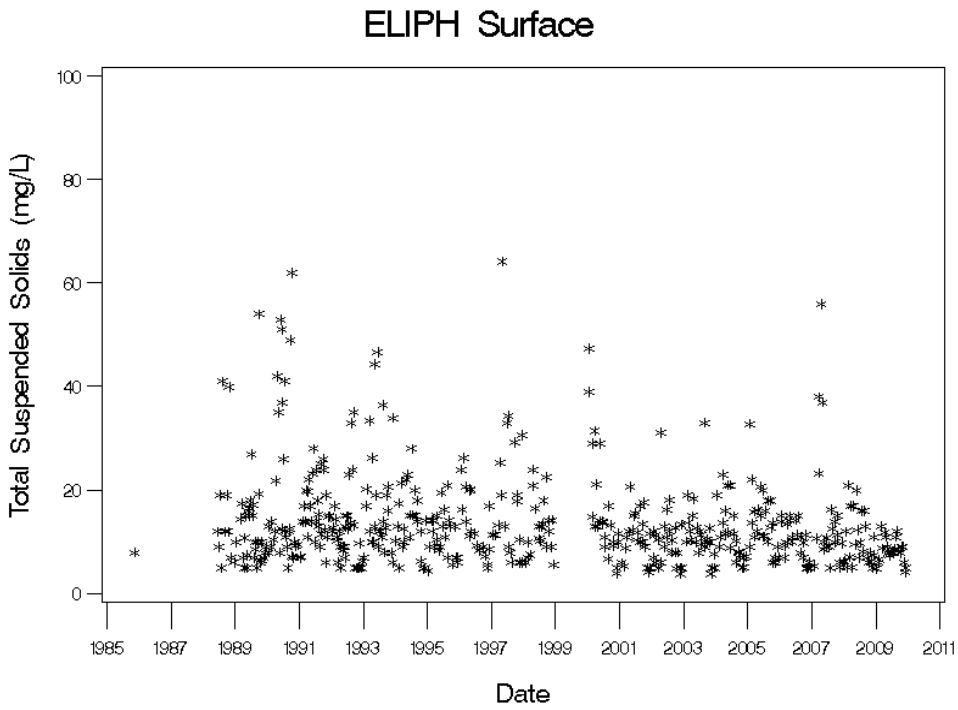


Figure 5. Scatterplot of surface chlorphyll a at segment ELIPH during the period 1985 to 2009.



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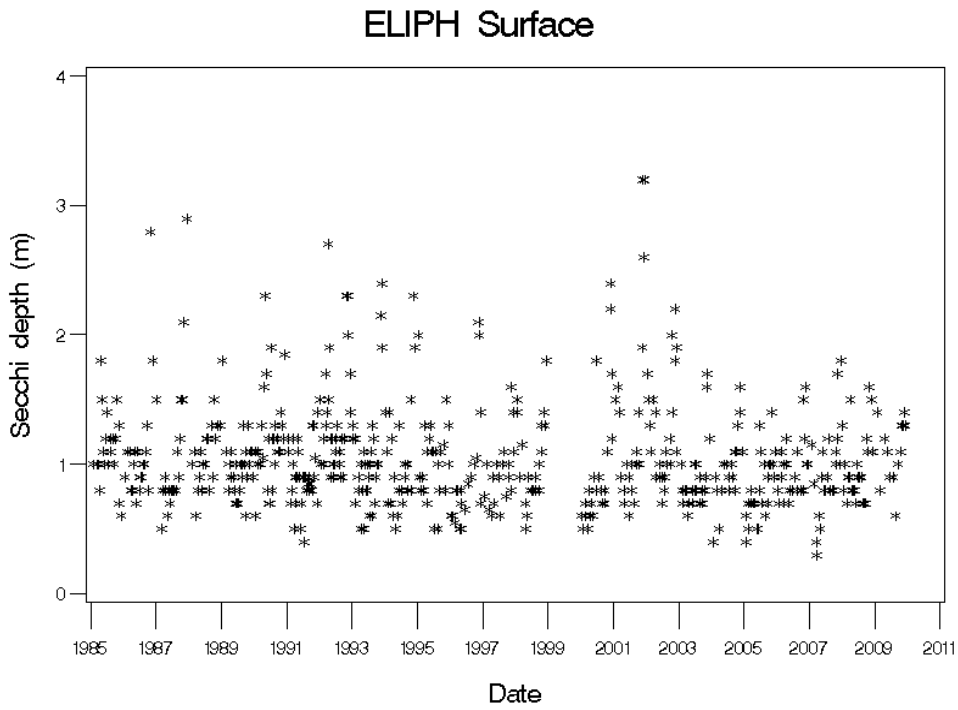

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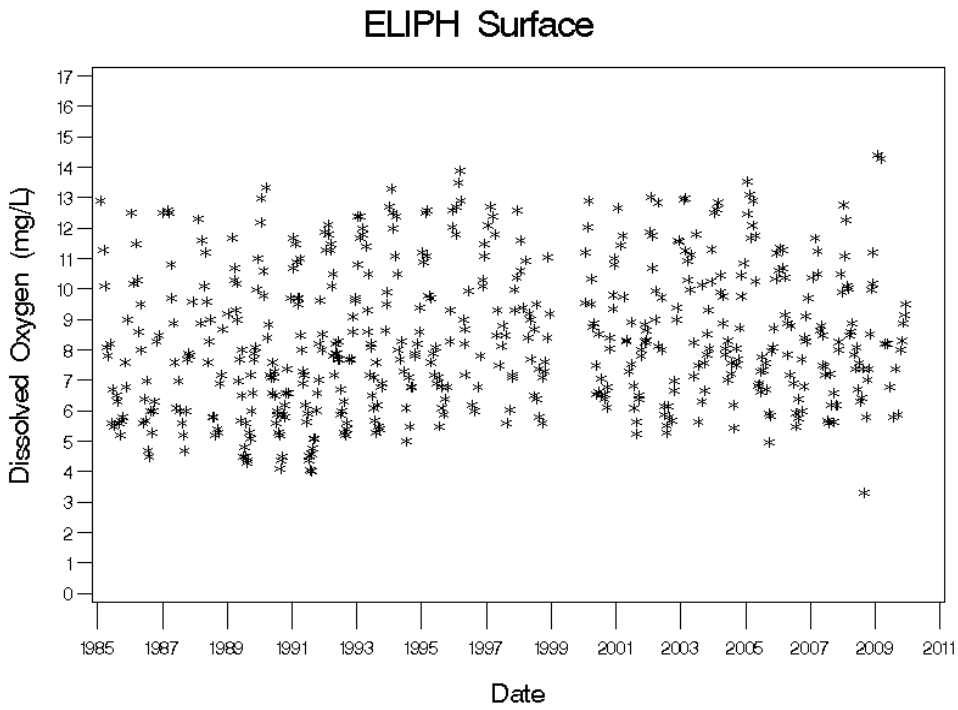

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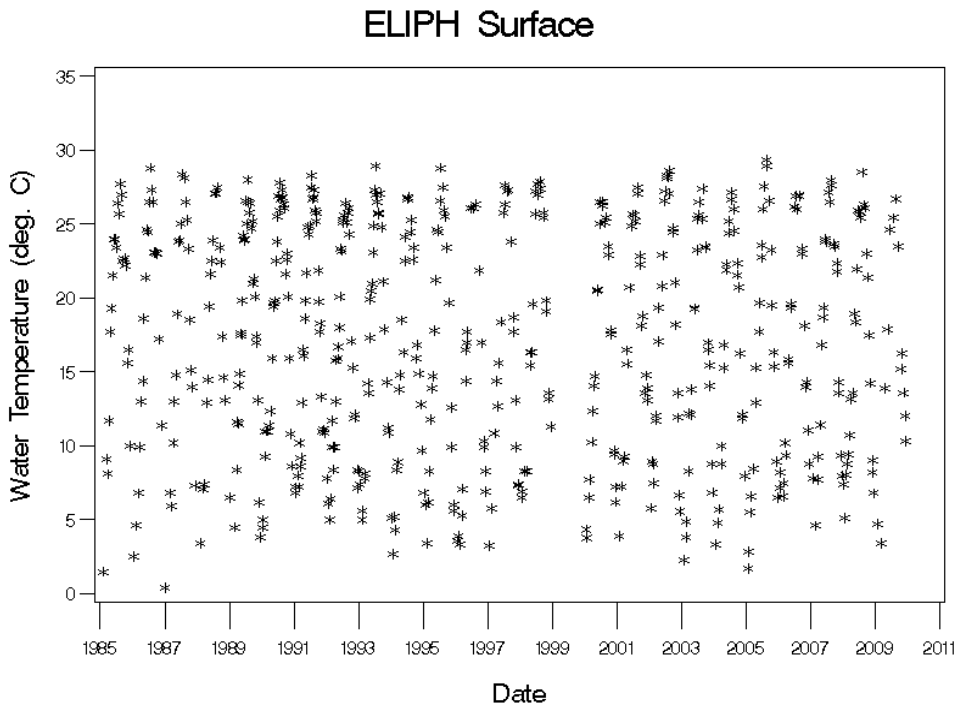

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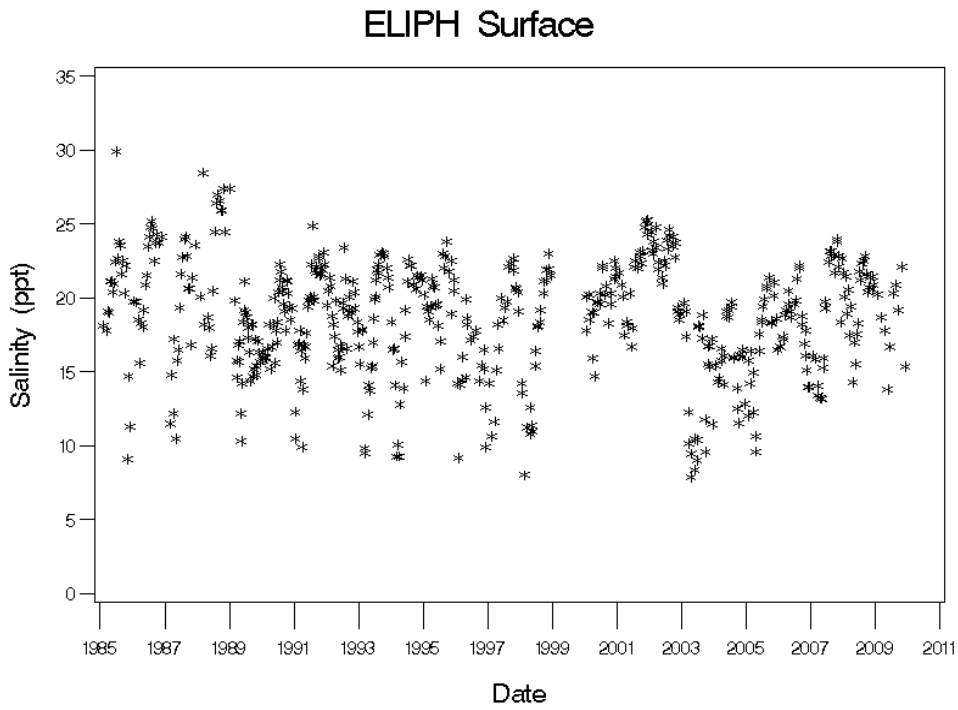

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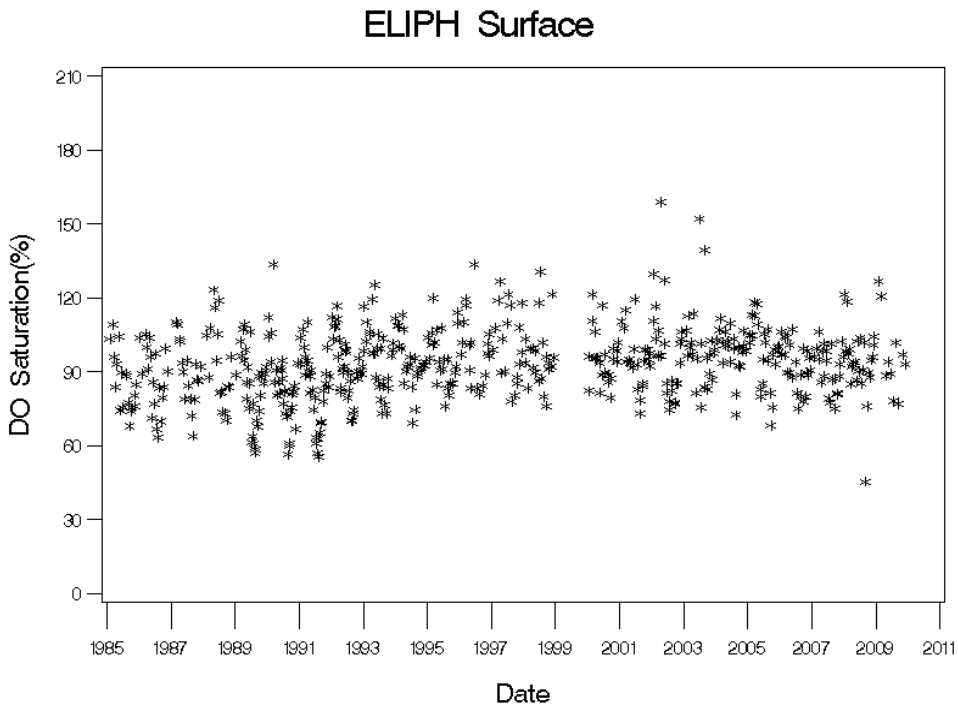

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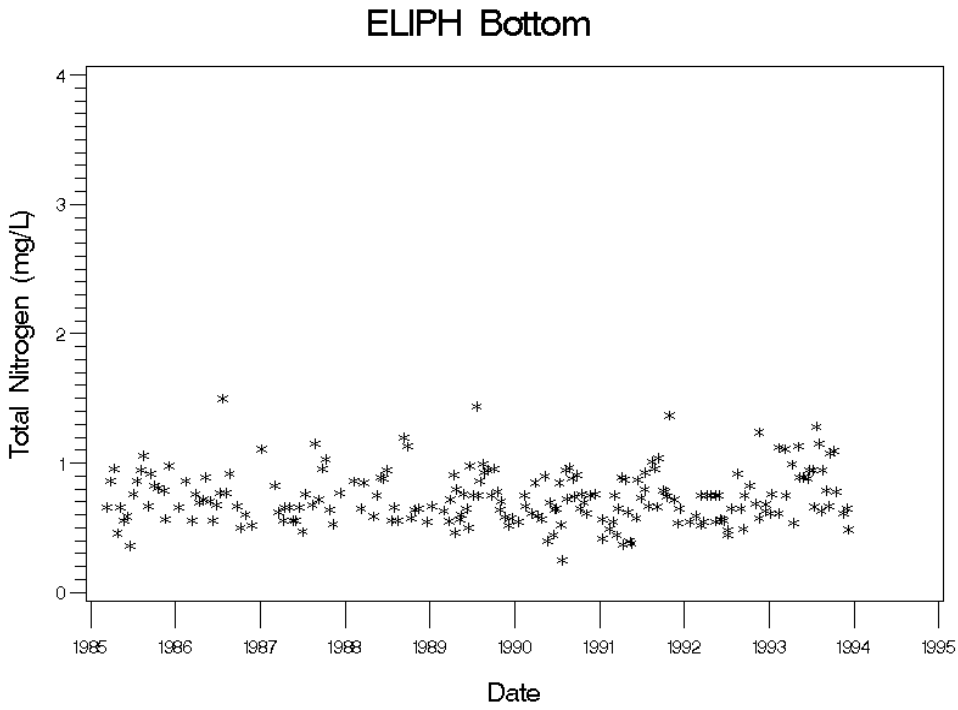
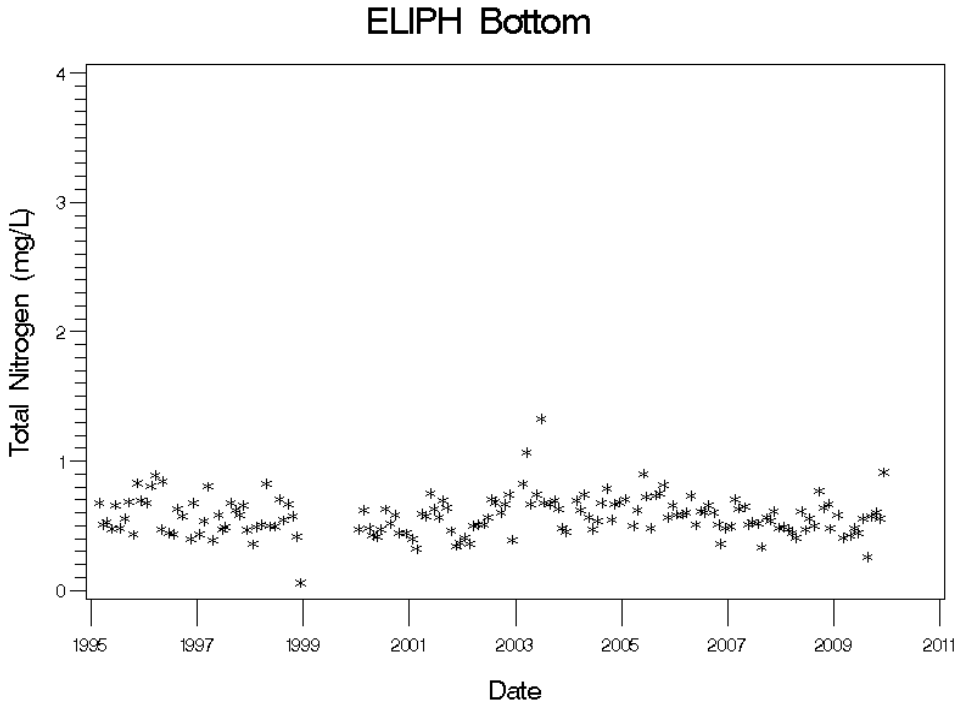
a) Pre-method change period



b) Post-method change period



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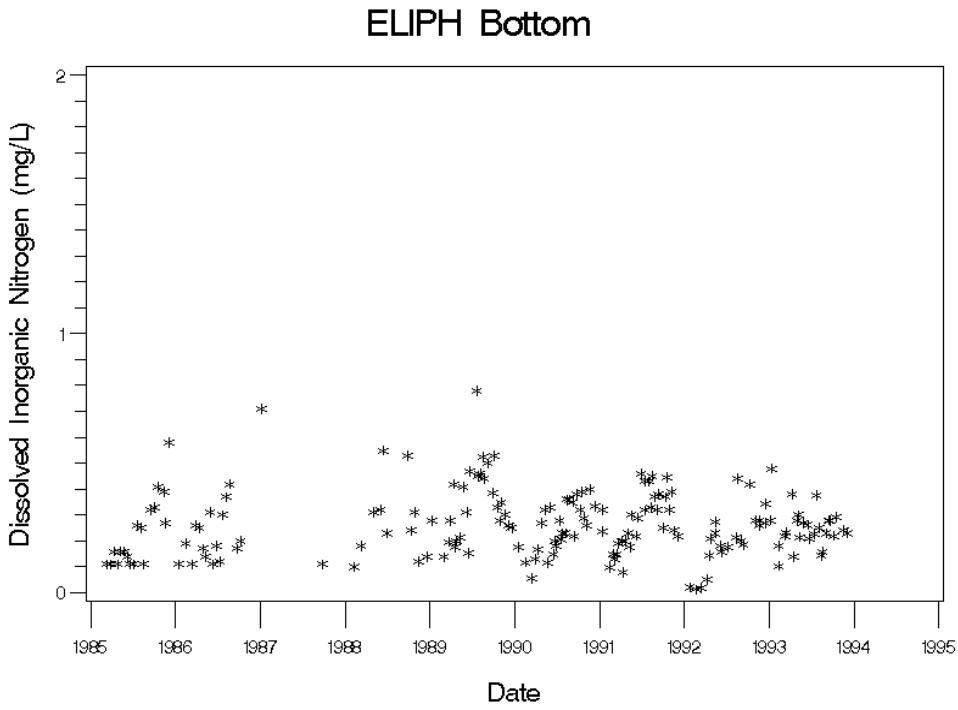
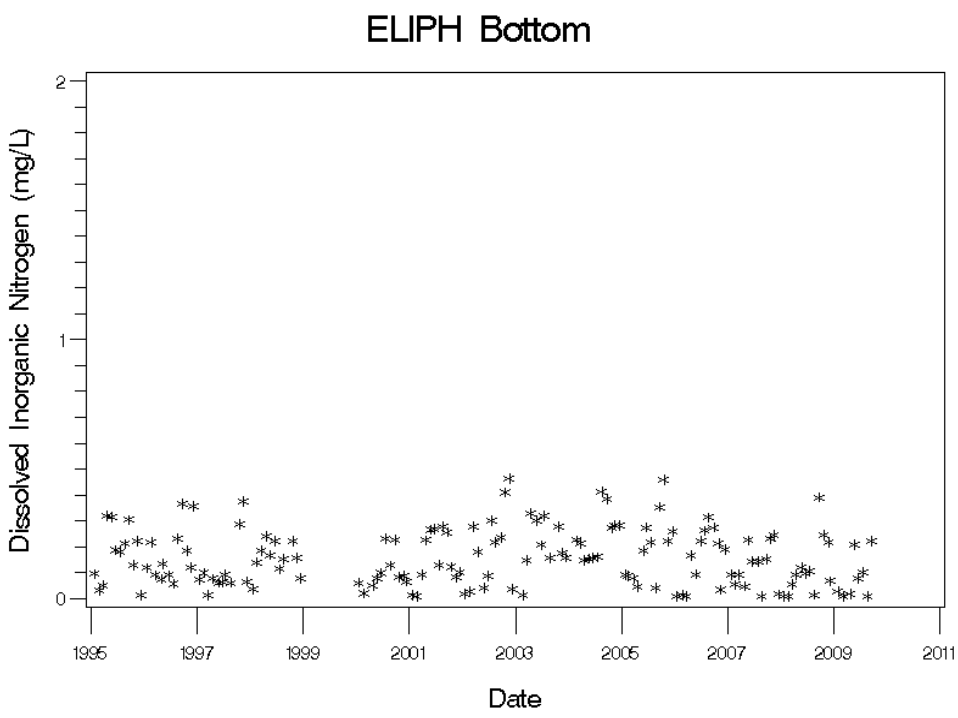


b) Post-method change period



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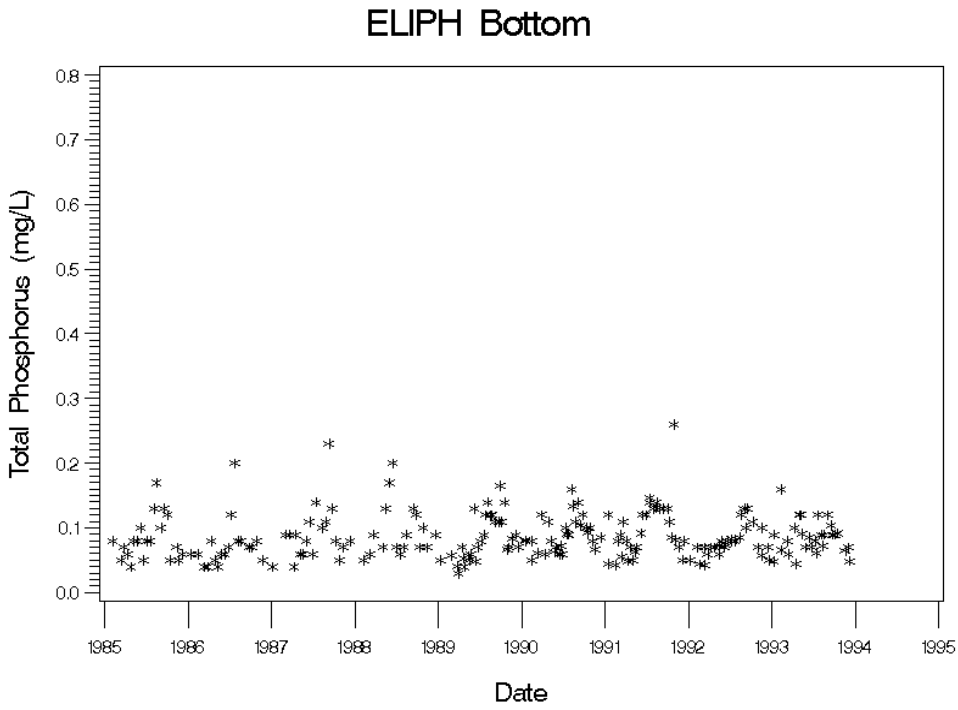
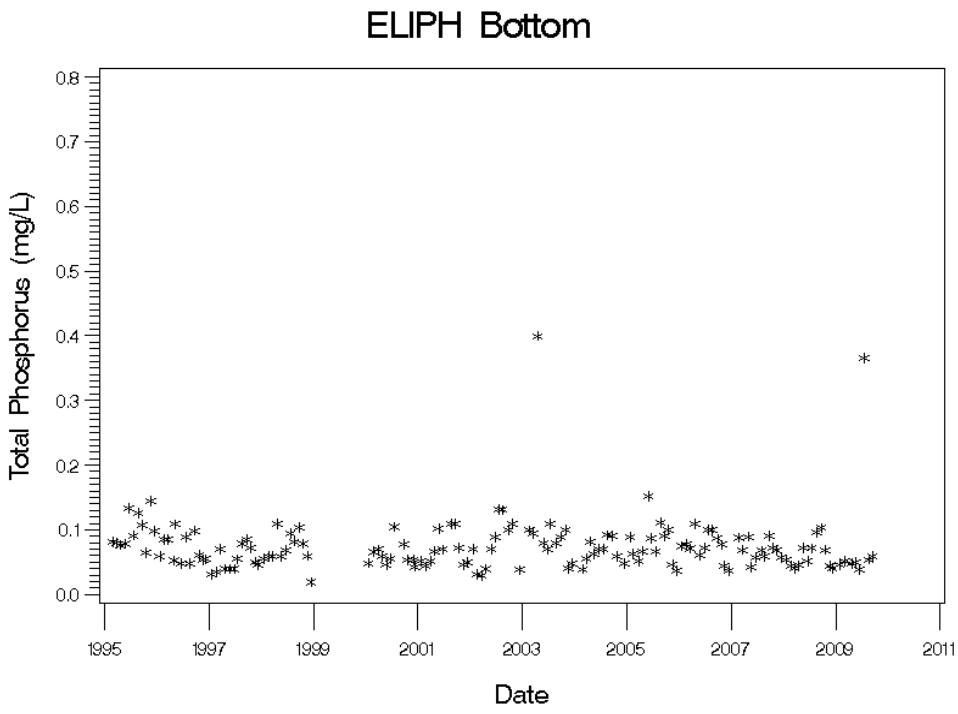


b) Post-method change period



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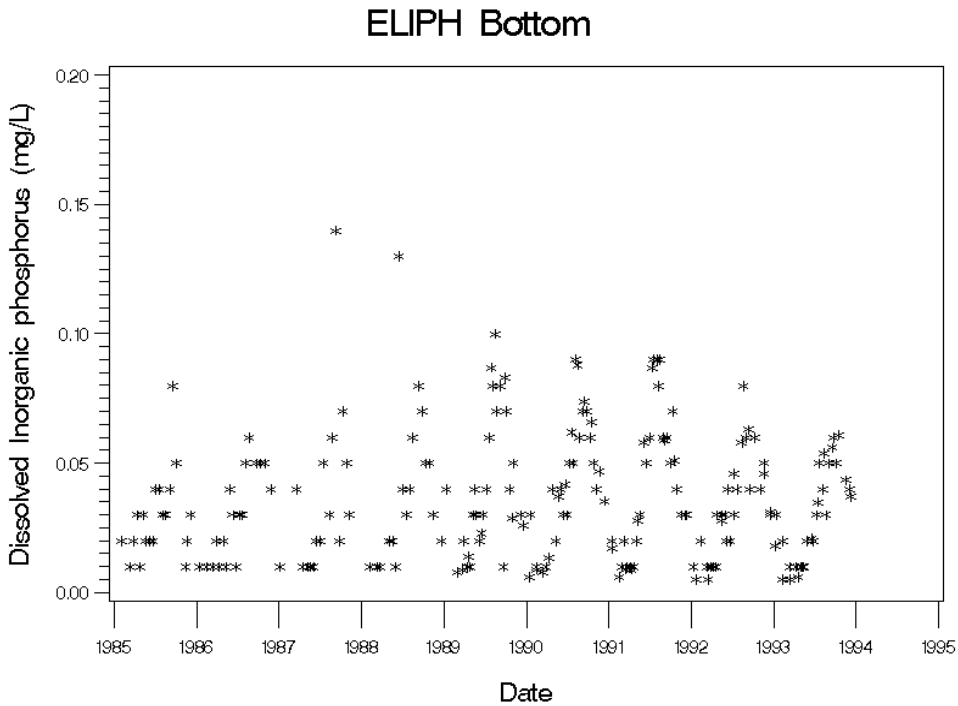
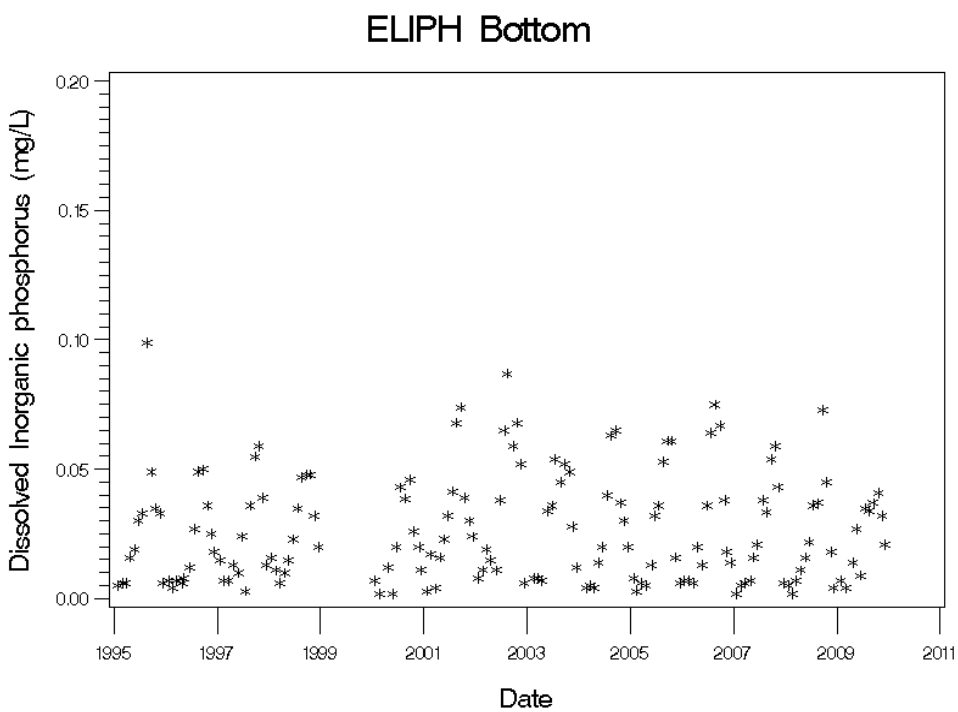


b) Post-method change period



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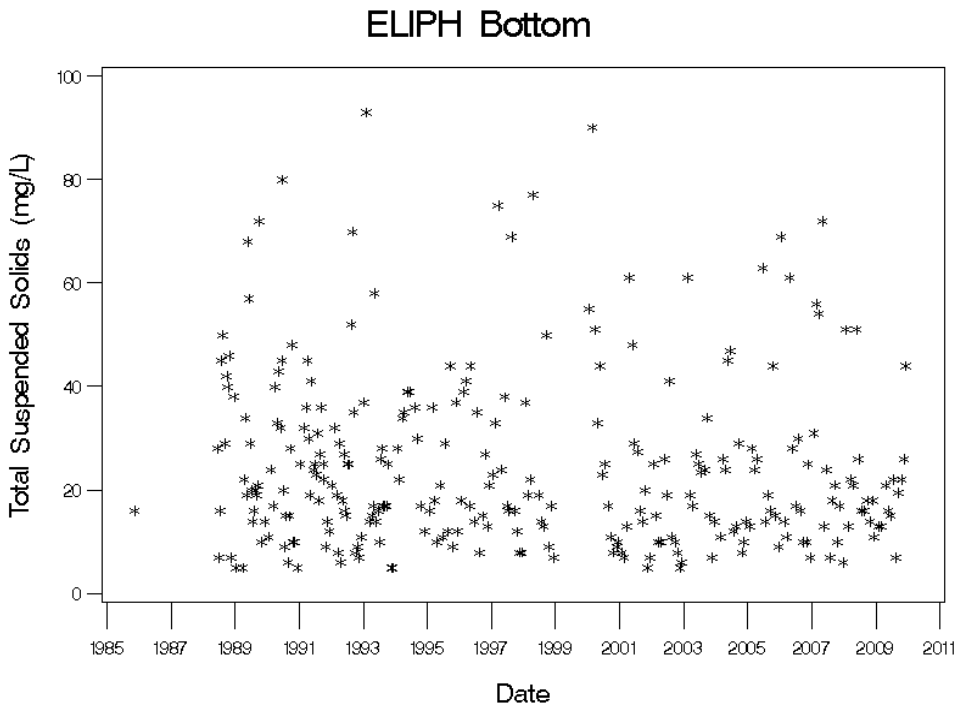
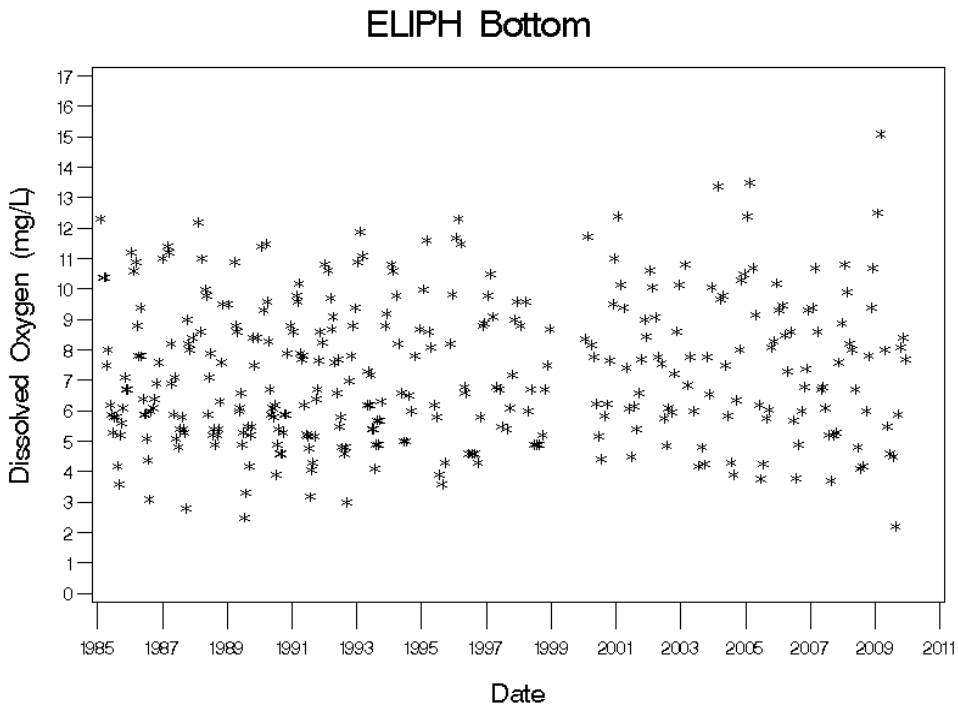


Figure 16. Scatterplot of bottom total suspended solids at segment ELIPH during the period 1985 to 2009.



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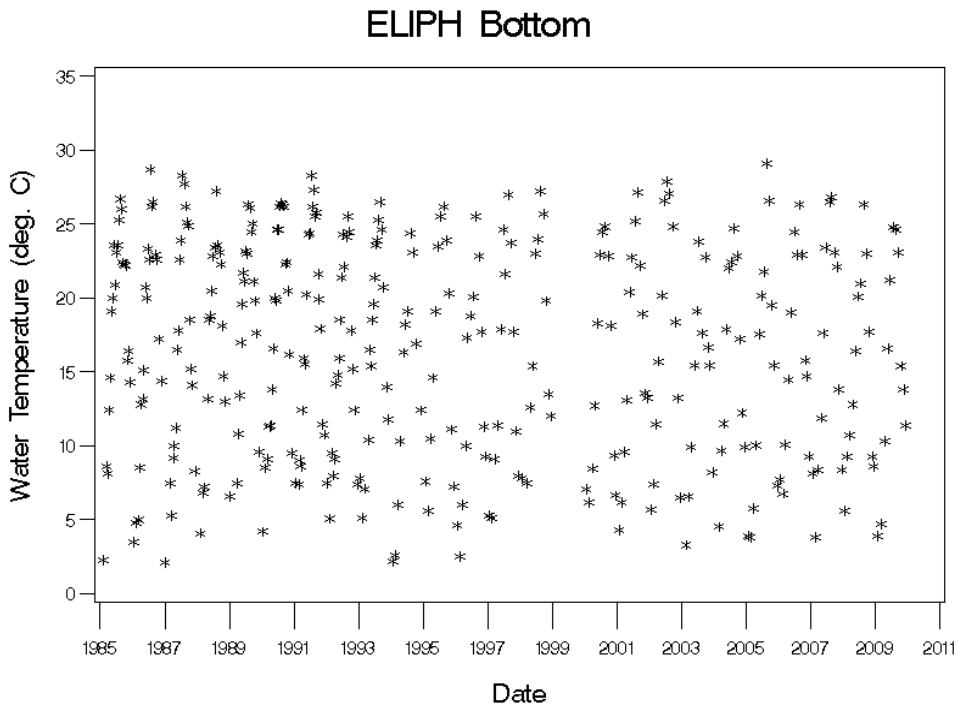

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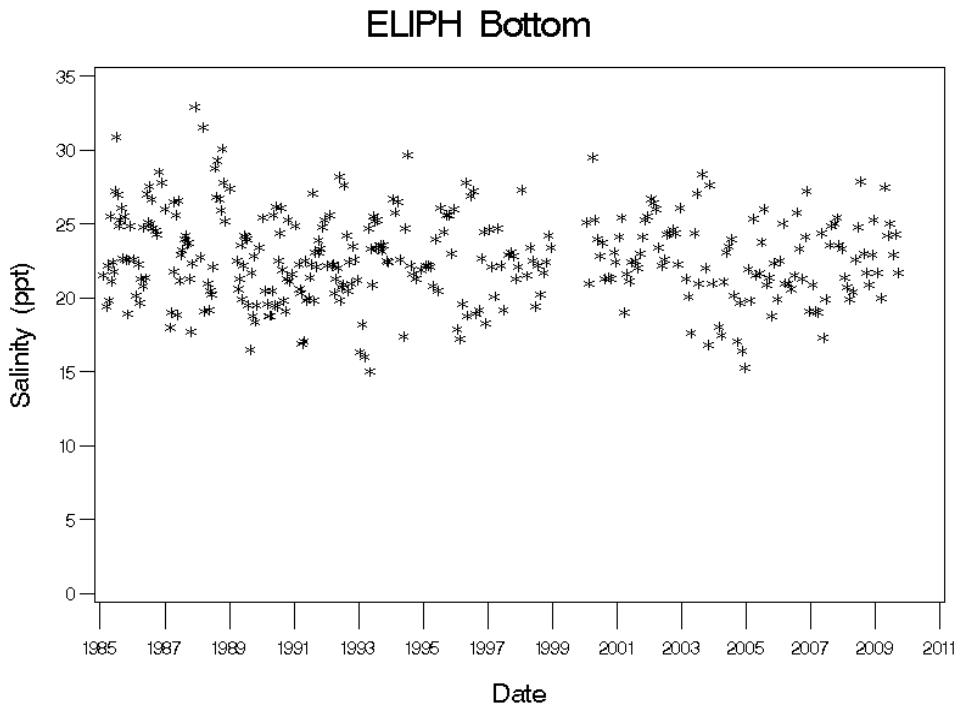

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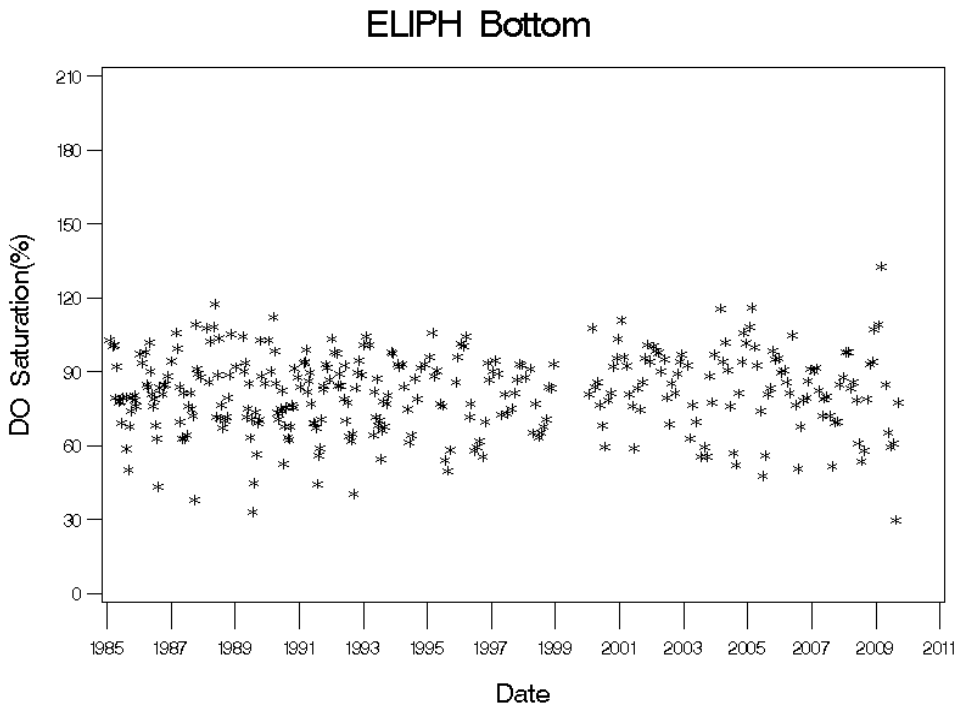

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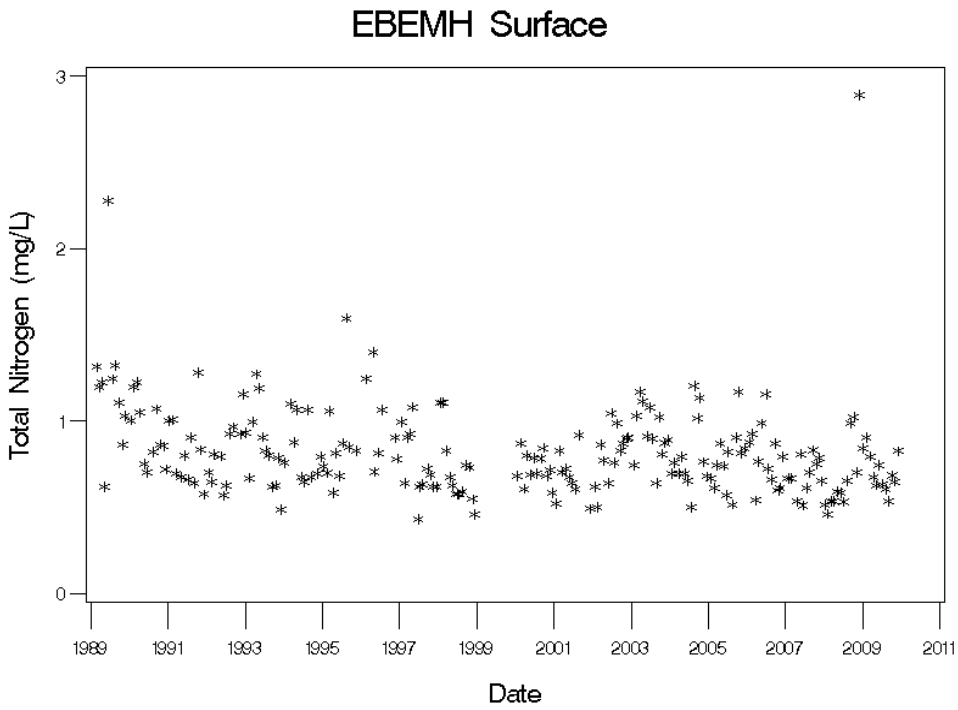
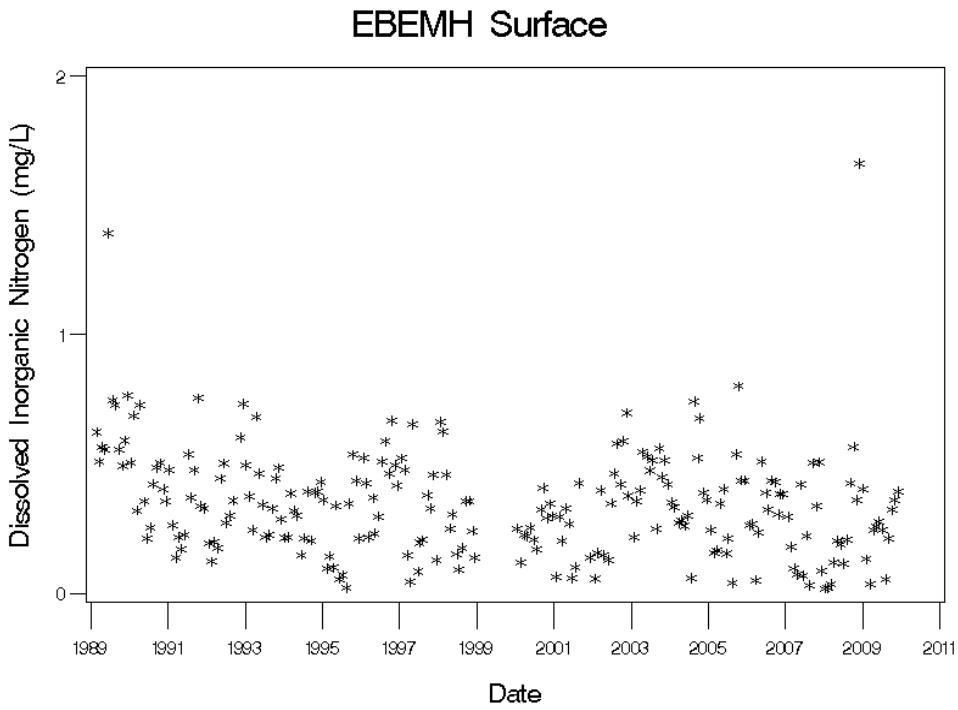


Figure 21. Scatterplots of surface total nitrogen at segment EBEMH during the period of 1989 to 2009.



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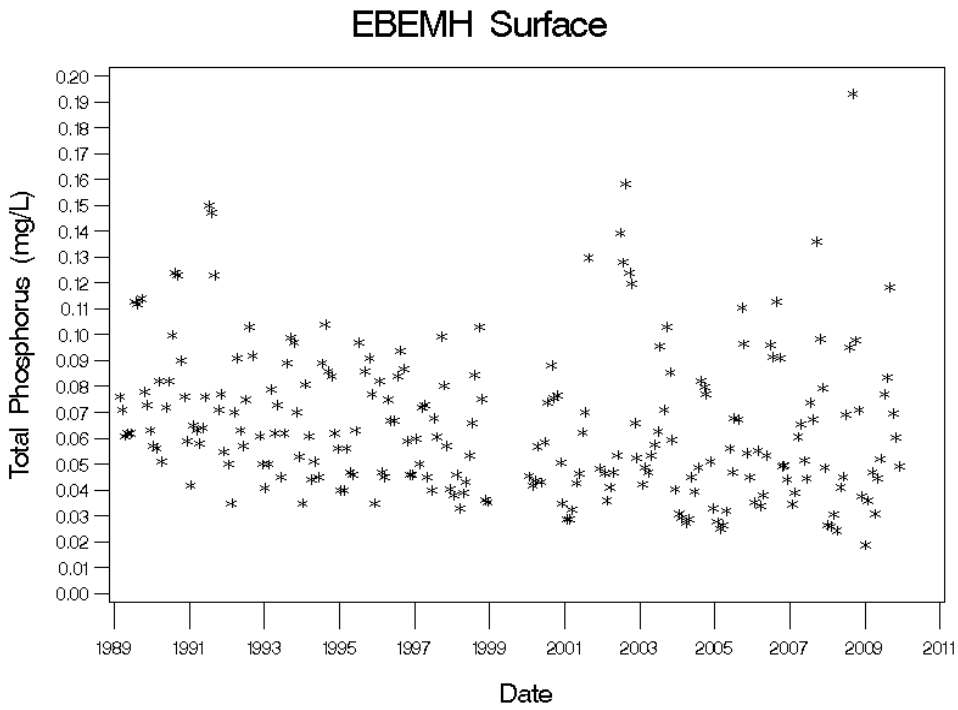

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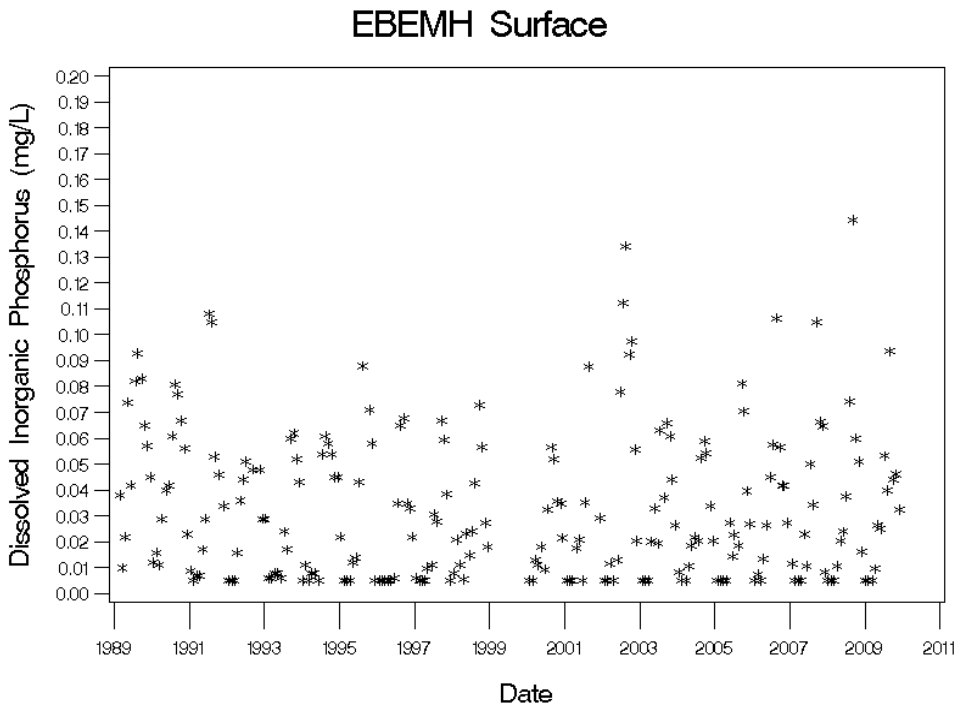

Figure 24. Scatterplots of surface dissolved inorganic phosphorus at segment EBEMH during the period of 1989 to 2009.

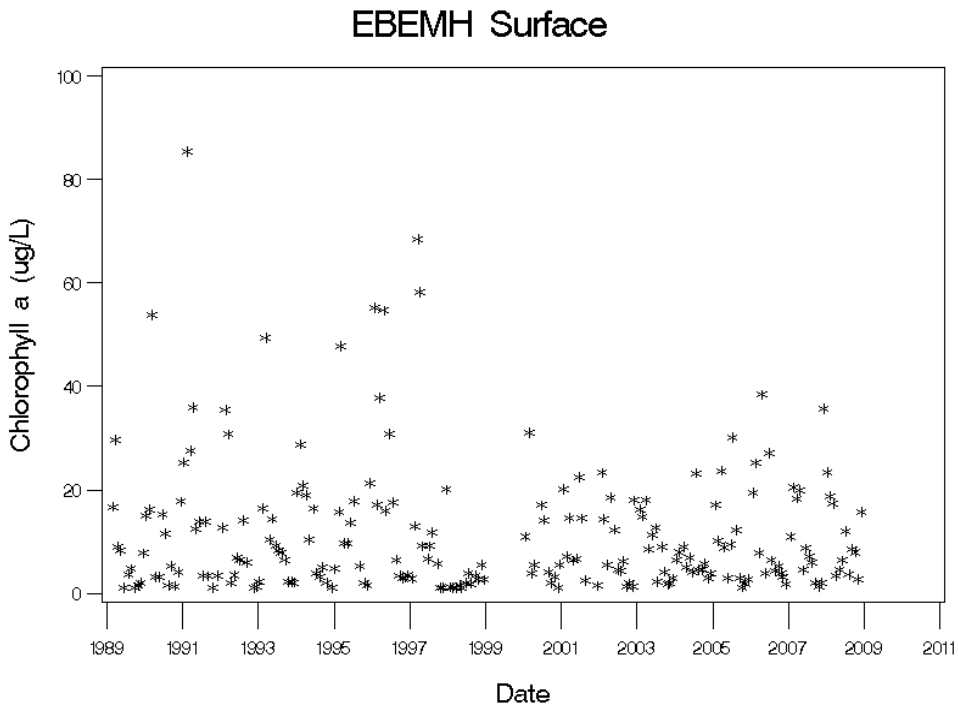

Figure 25. Scatterplot of surface chlorphyll a at segment EBEMH during the period 1985 to 2009.

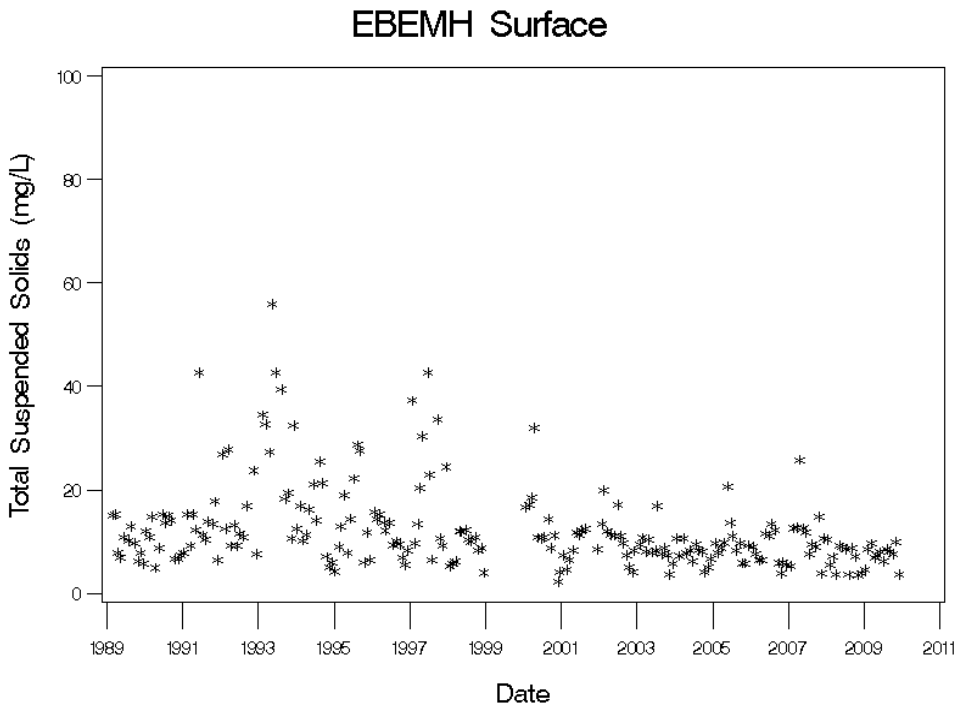

Figure 26. Scatterplot of surface total suspended solids at segment EBEMH during the period 1985 to 2009.

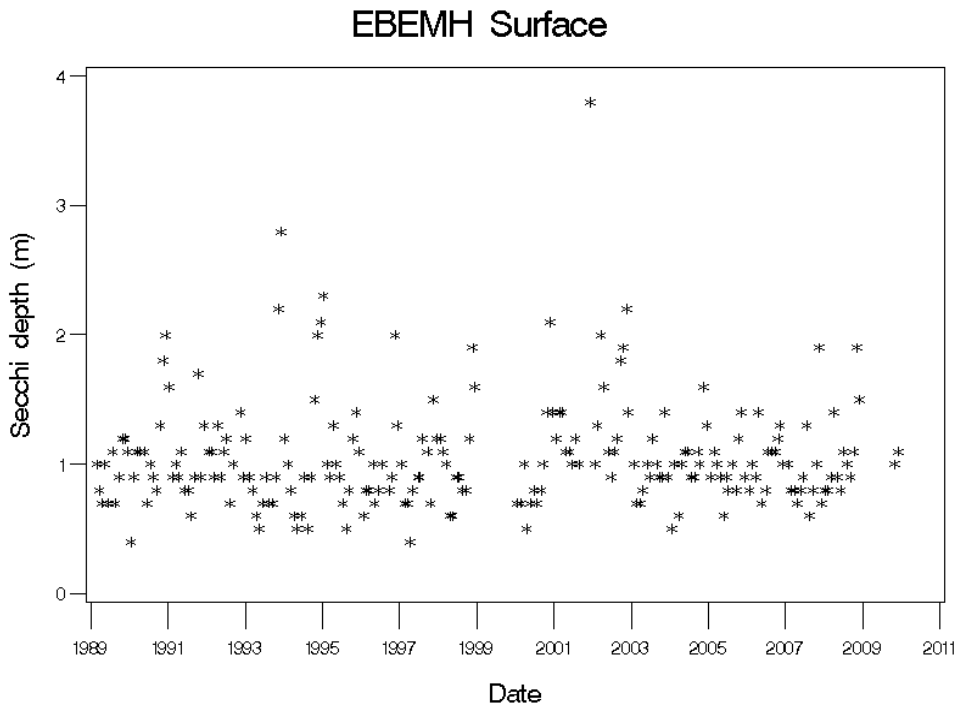

Figure 27. Scatterplot of secchi depth at segment EBEMH during the period 1989 through 2009.

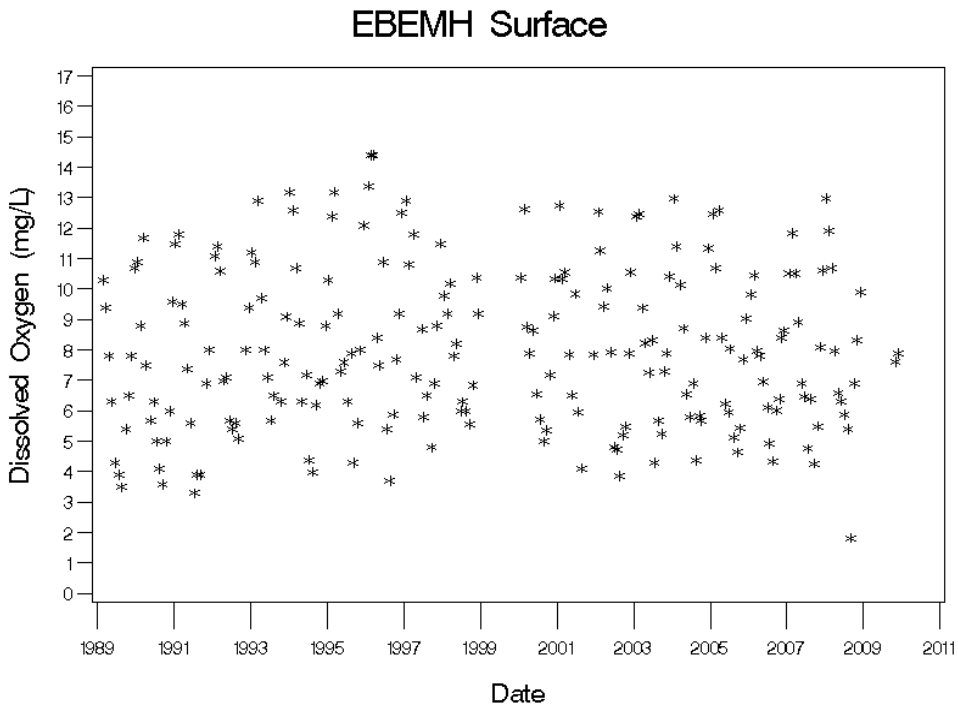

Figure 28. Scatterplot of surface dissolved oxygen at segment EBEMH during the period 1985 to 2009.

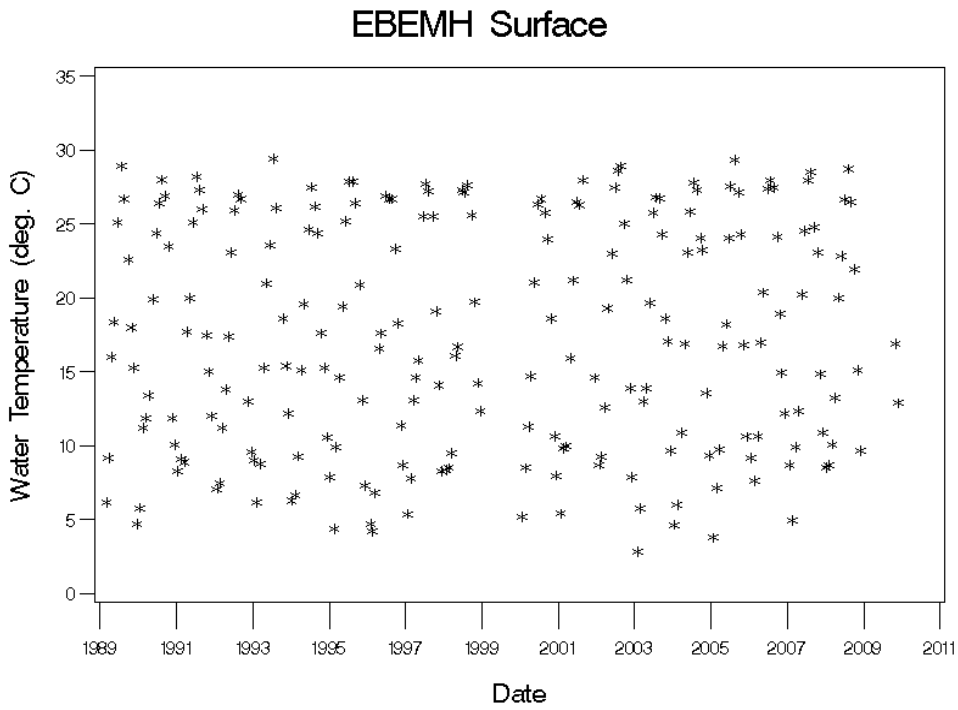

Figure 29. Scatterplot of surface water temperature at segment EBEMH during the period 1985 to 2009.

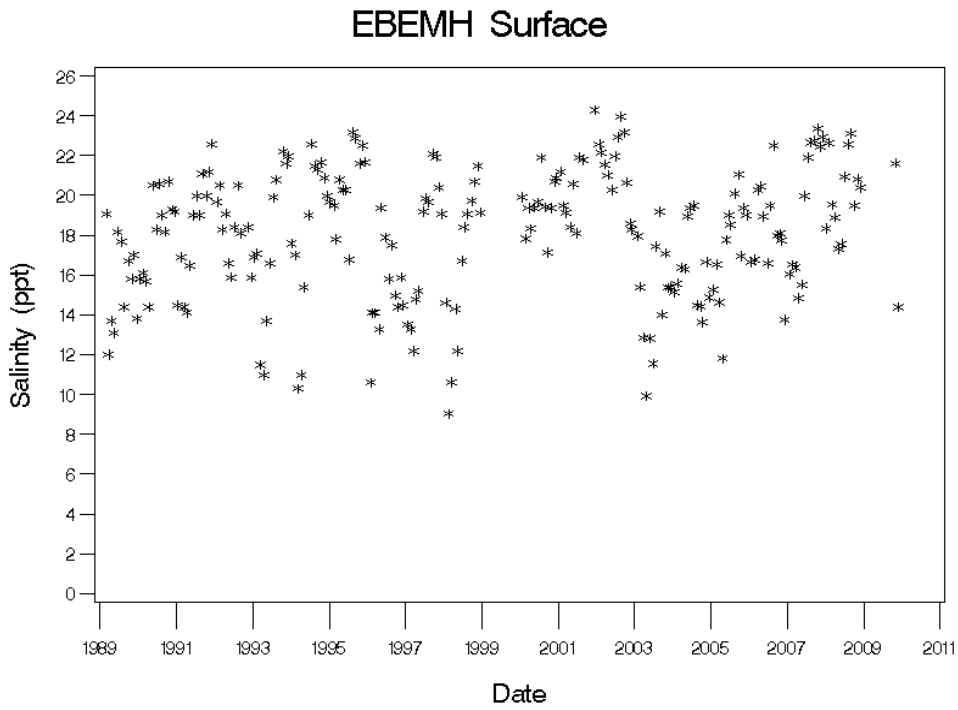

Figure 30. Scatterplot of surface salinity at segment EBEMH during the period 1985 to 2009.

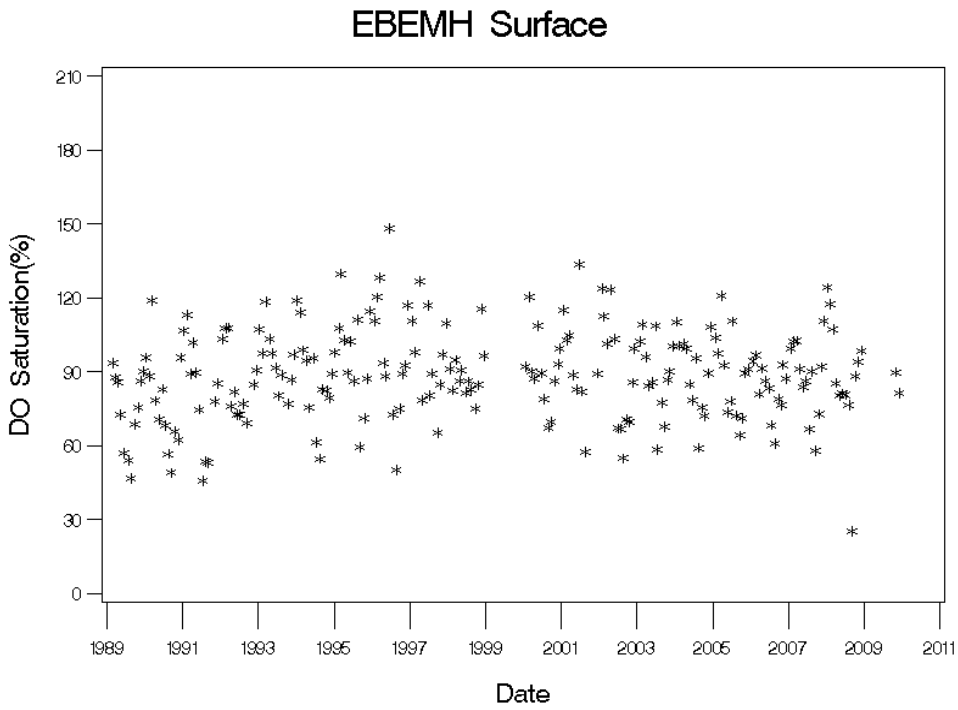

Figure 31. Scatterplot of surface DO saturation at segment EBEMH during the period 1985 to 2009.

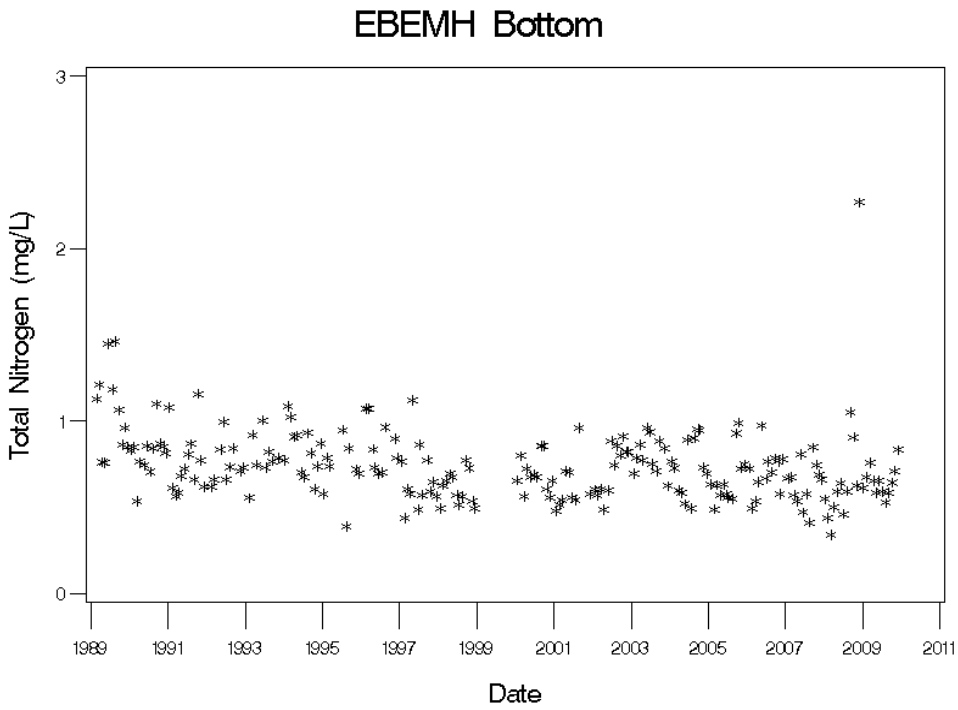

Figure 32. Scatterplots of bottom total nitrogen at segment EBEMH during the period of 1989 to 2009.

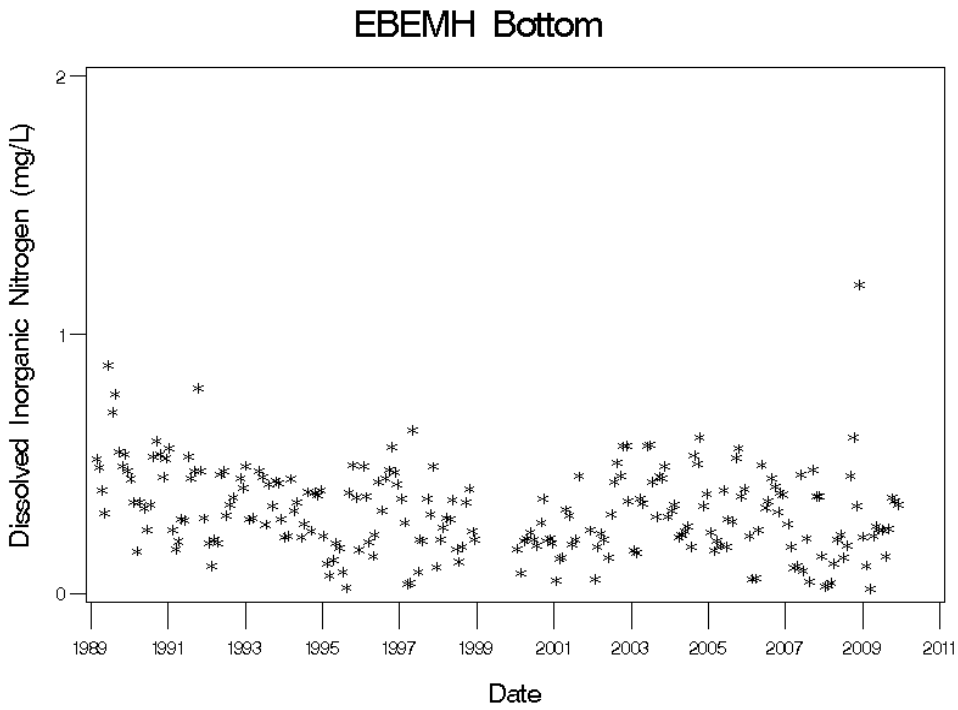

Figure 33. Scatterplots of bottom dissolved inorganic nitrogen at segment EBEMH during the period of 1989 to 2009.

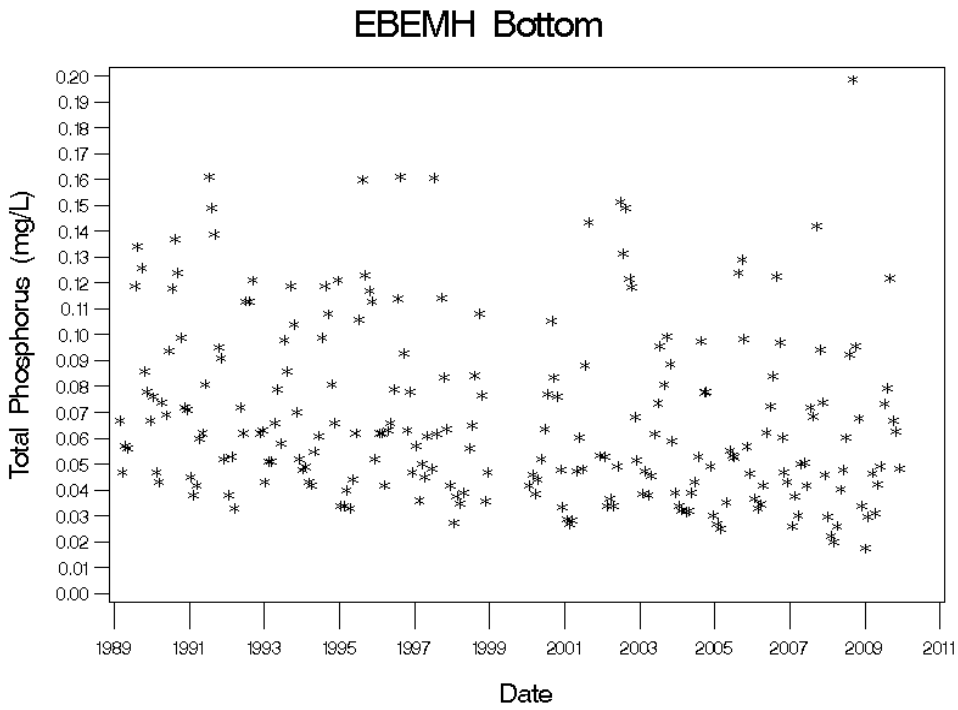

Figure 34. Scatterplots of bottom total phosphorus at segment EBEMH during the period of 1989 to 2009.

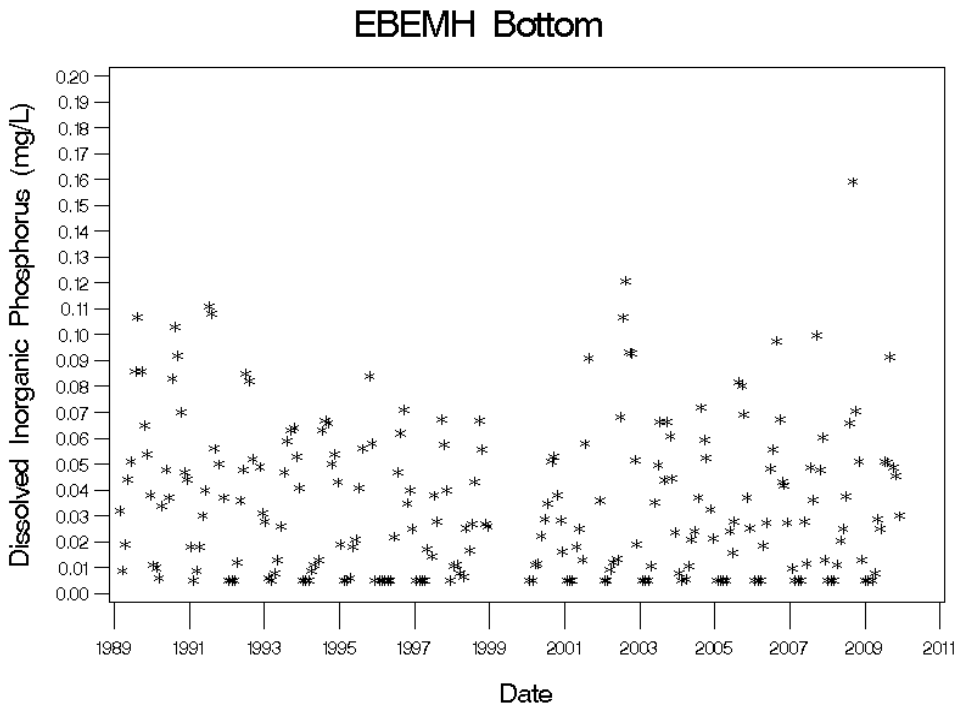

Figure 35. Scatterplots of bottom dissolved inorganic phosphorus at segment EBEMH during the period of 1989 to 2009.

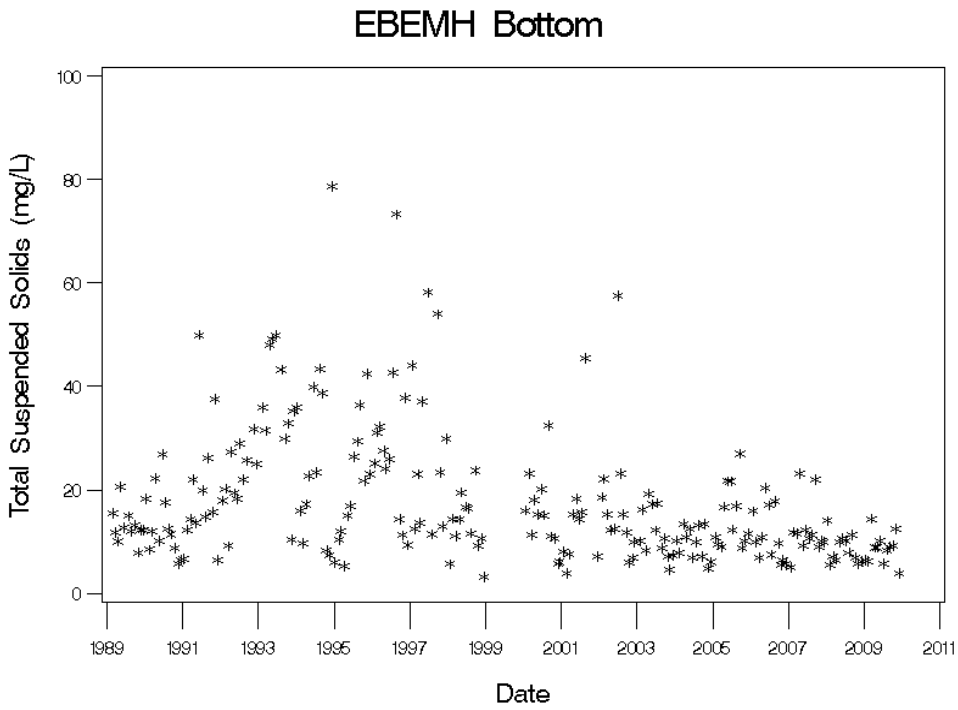

Figure 36. Scatterplot of bottom total suspended solids at segment EBEMH during the period 1985 to 2009.

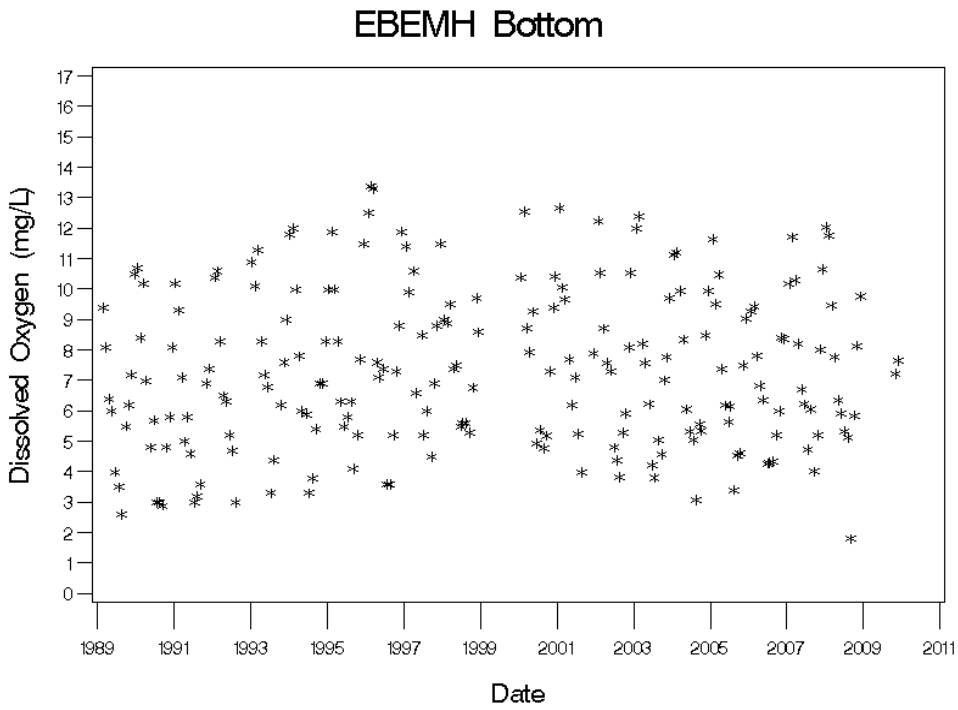

Figure 37. Scatterplot of bottom dissolved oxygen at segment EBEMH during the period 1985 to 2009.

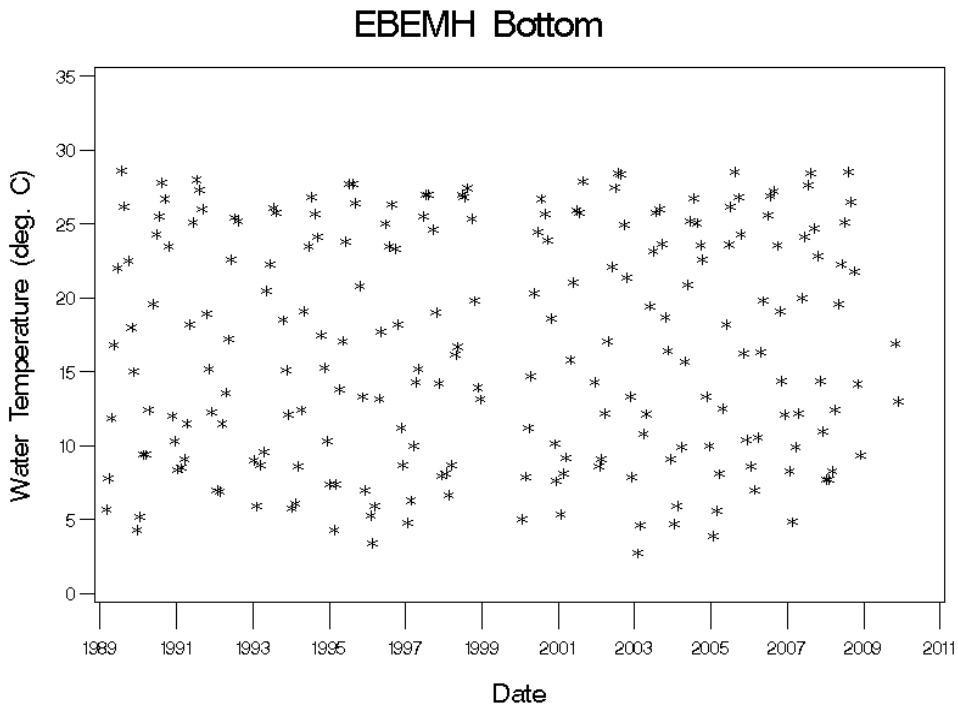

Figure 38. Scatterplot of bottom water temperature at segment EBEMH during the period 1985 to 2009.

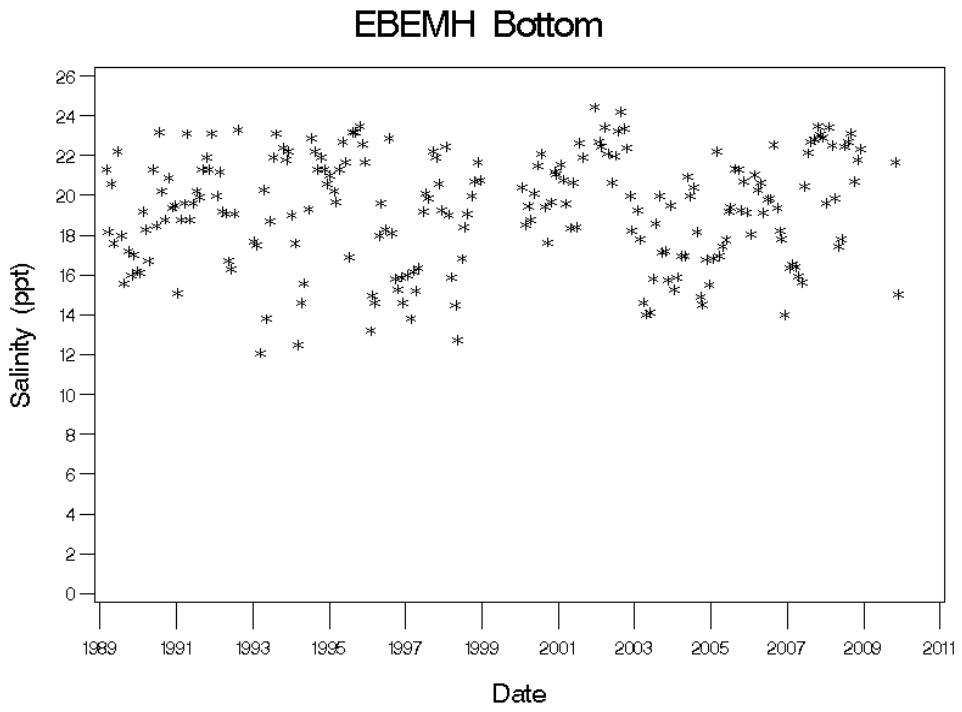

Figure 39. Scatterplot of bottom salinity at segment EBEMH during the period 1985 to 2009.

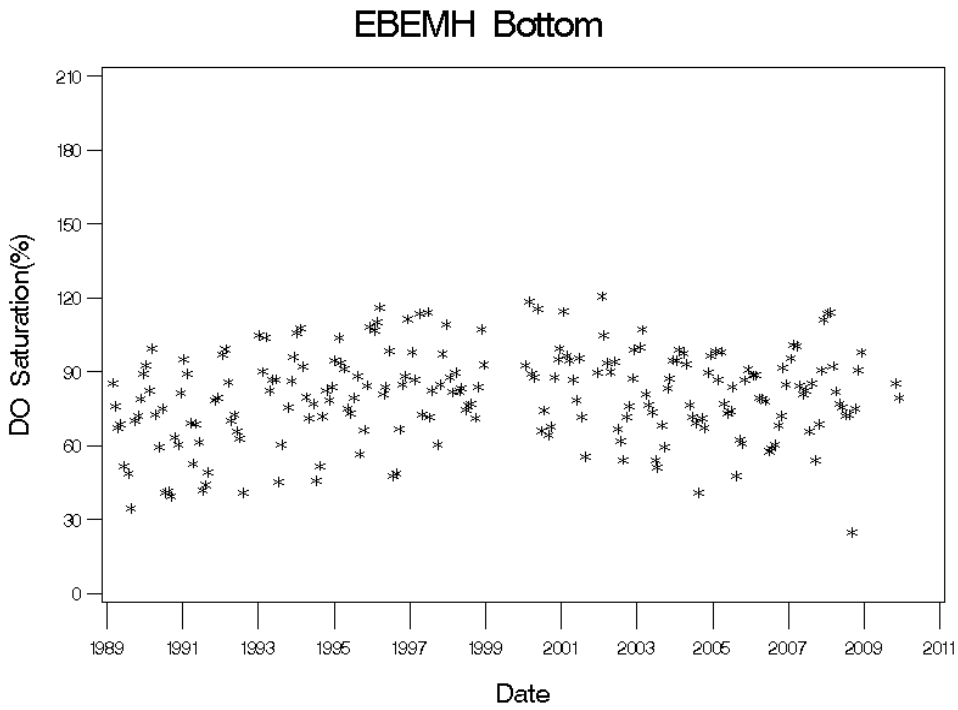

Figure 40. Scatterplot of bottom DO saturation at segment EBEMH during the period 1985 to 2009.

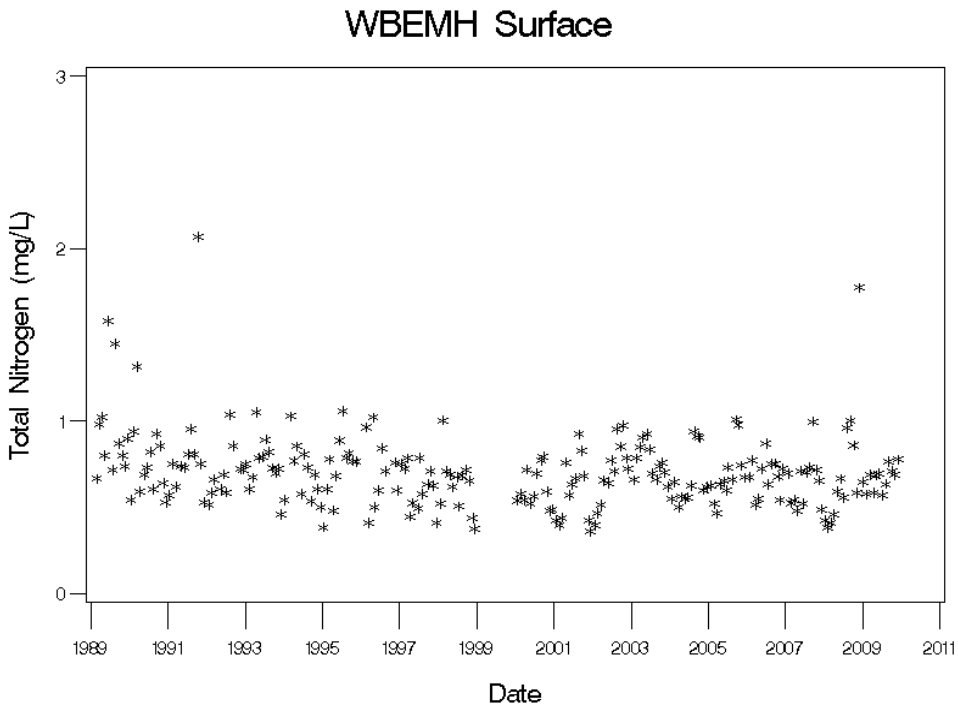

Figure 41. Scatterplots of surface total nitrogen at segment WBEMH during the period of 1989 to 2009.

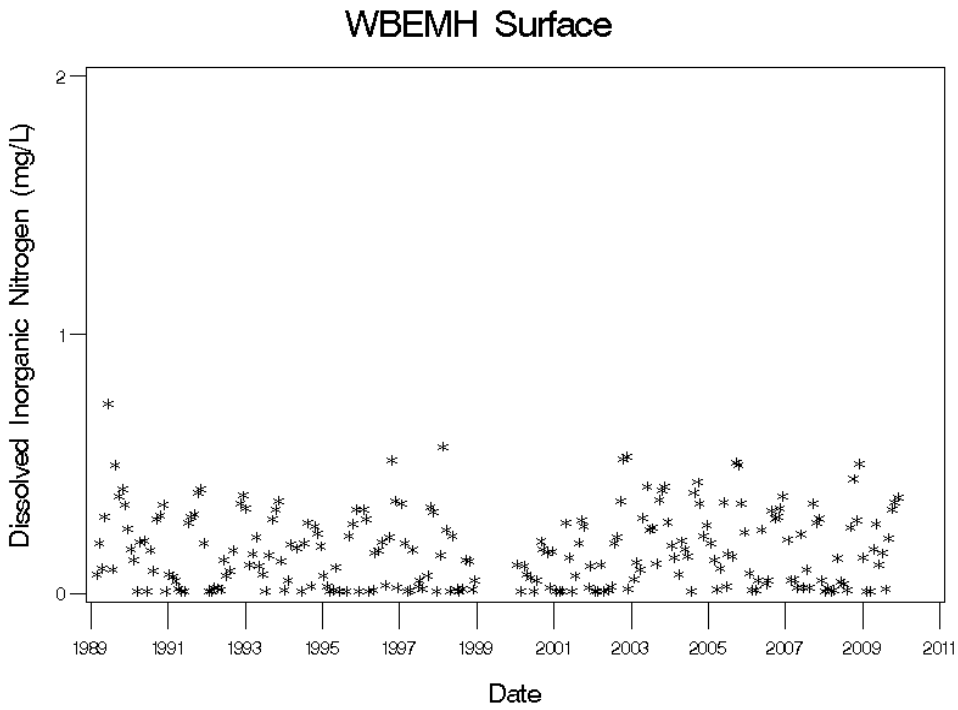

Figure 42. Scatterplots of surface dissolved inorganic nitrogen at segment WBEMH during the period of 1989 to 2009.

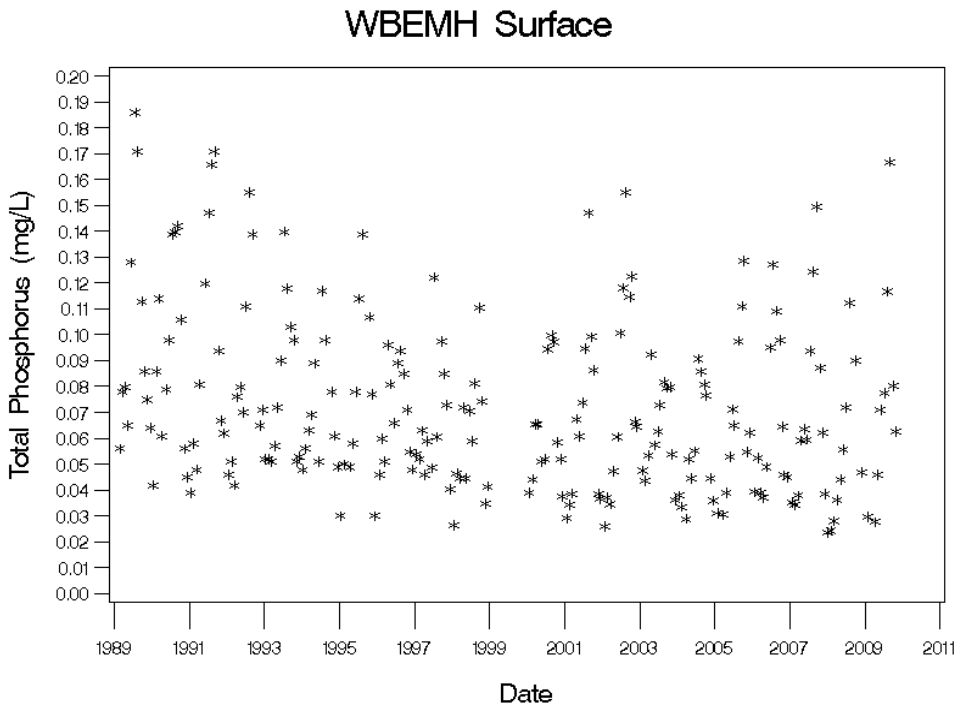

Figure 43. Scatterplots of surface total phosphorus at segment WBEMH during the period of 1989 to 2009.

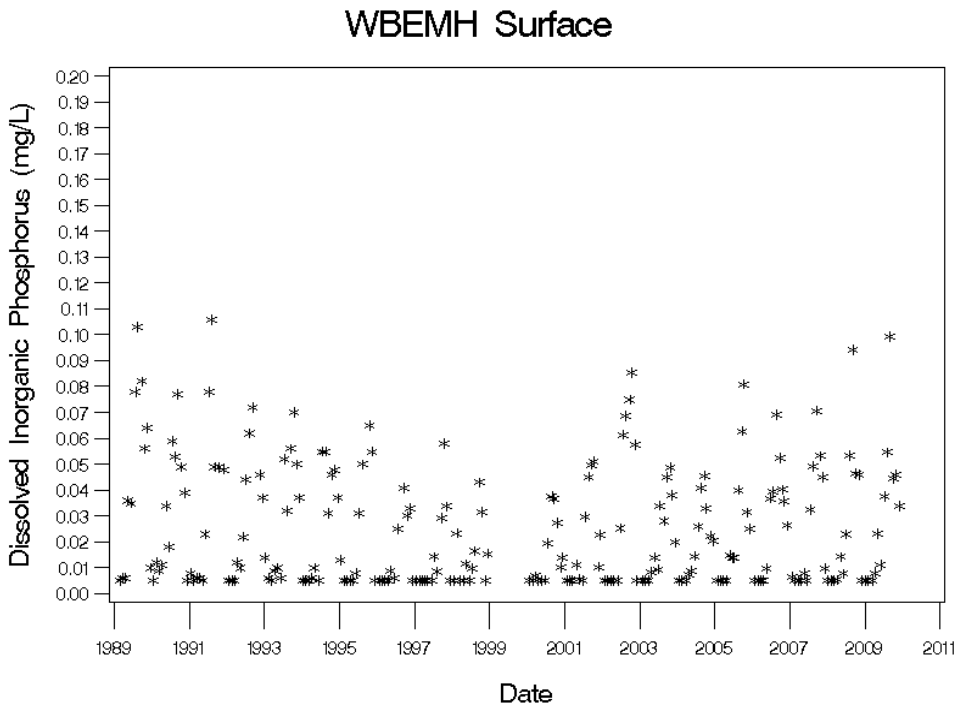

Figure 44. Scatterplots of surface dissolved inorganic phosphorus at segment WBEMH during the period of 1989 to 2009.

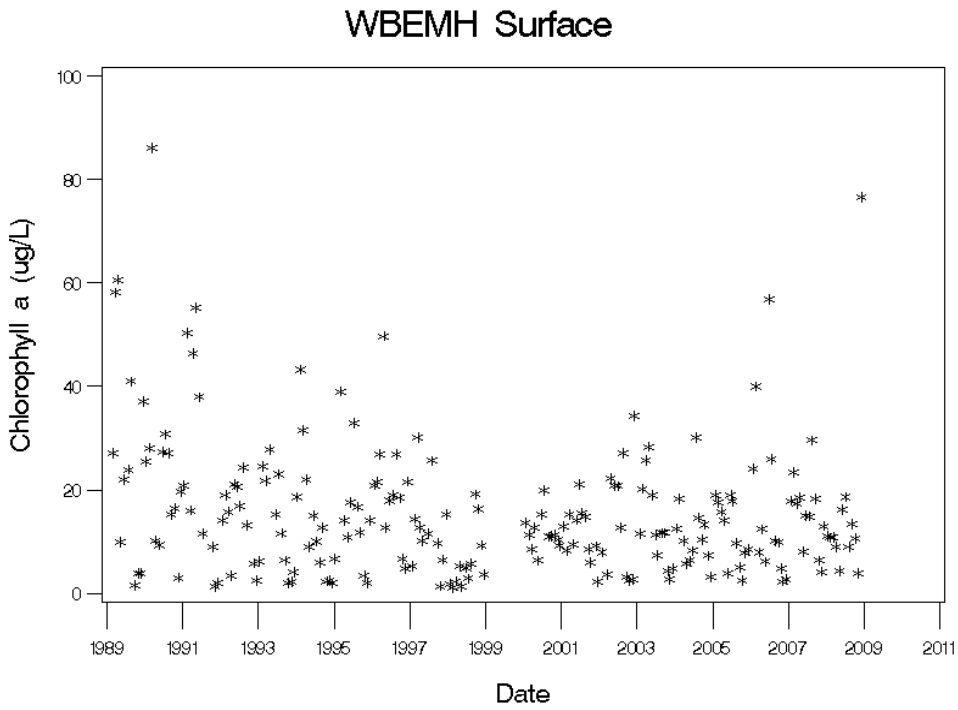

Figure 45. Scatterplot of surface chlorphyll a at segment WBEMH during the period 1985 to 2009.

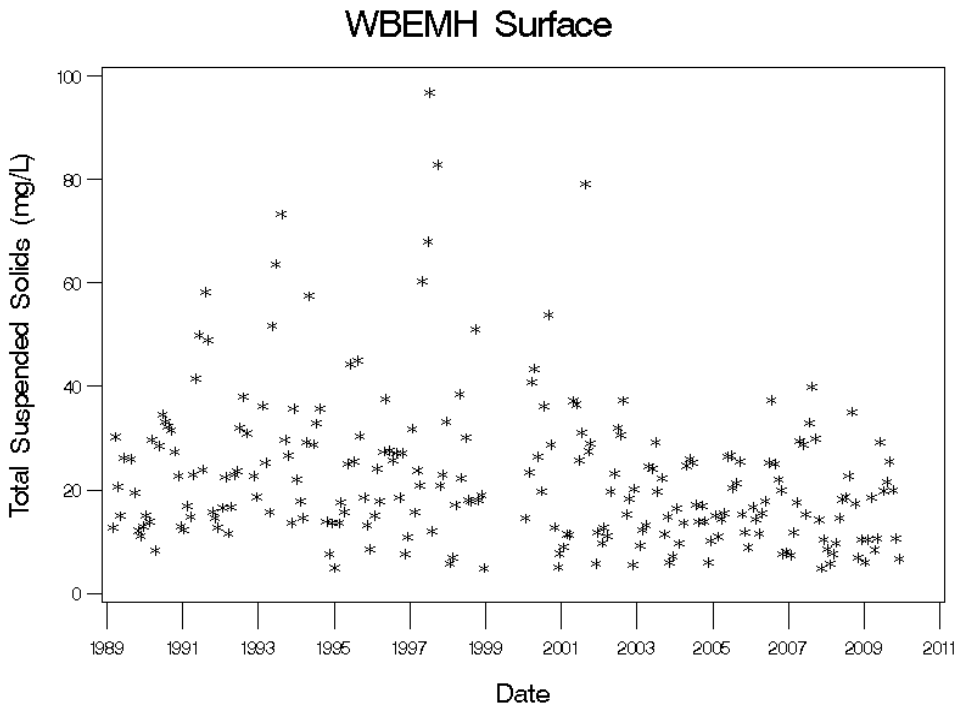

Figure 46. Scatterplot of surface total suspended solids at segment WBEMH during the period 1985 to 2009.

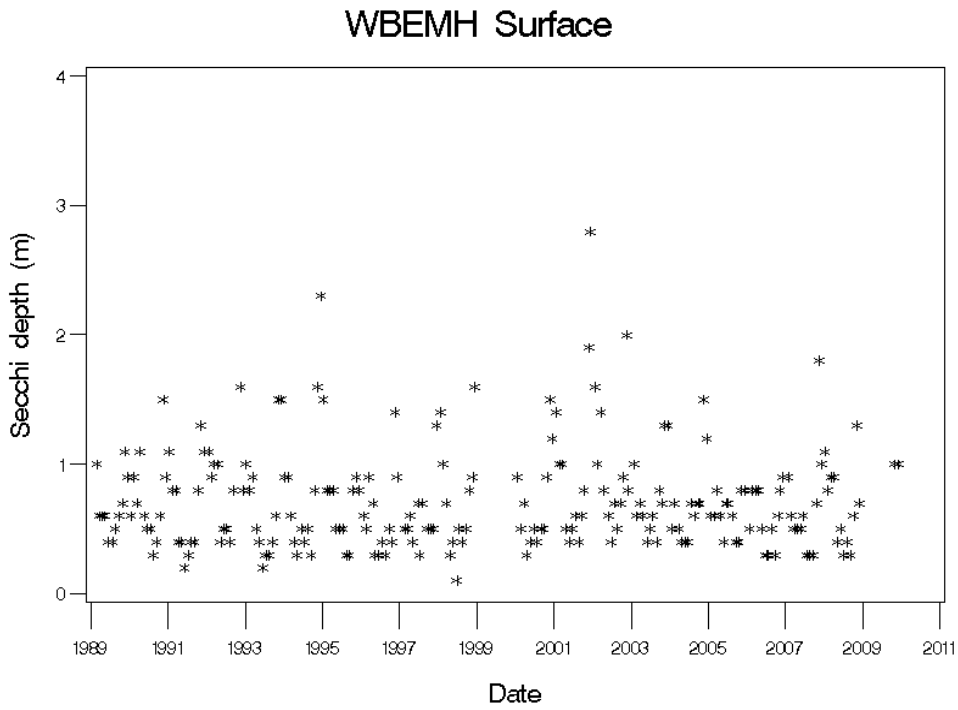

Figure 47. Scatterplot of secchi depth at segment WBEMH during the period 1989 through 2009.

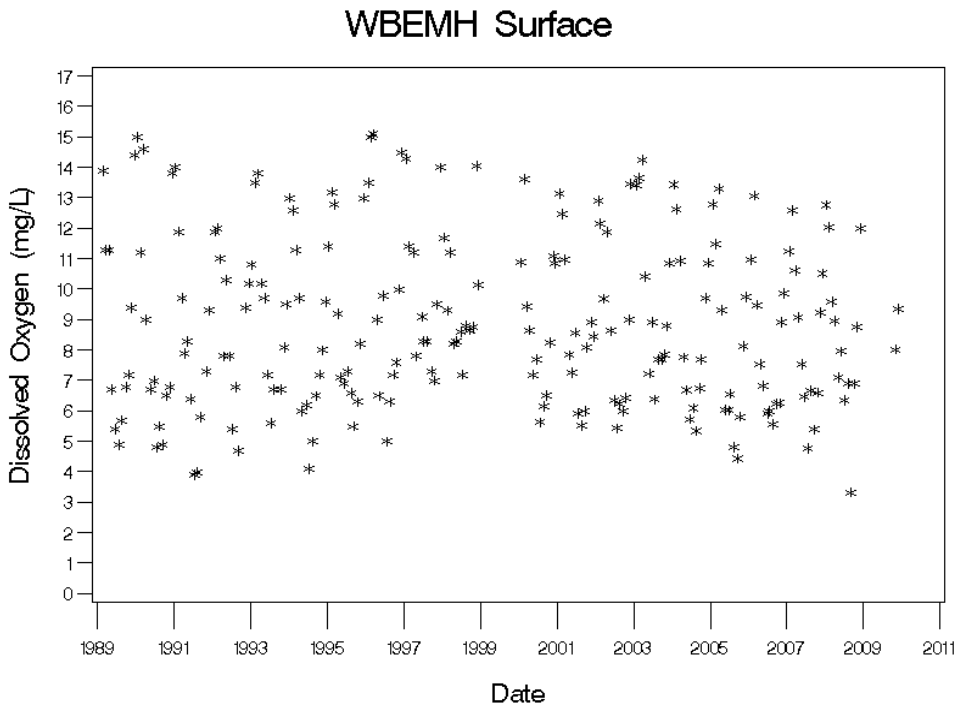

Figure 48. Scatterplot of surface dissolved oxygen at segment WBEMH during the period 1985 to 2009.

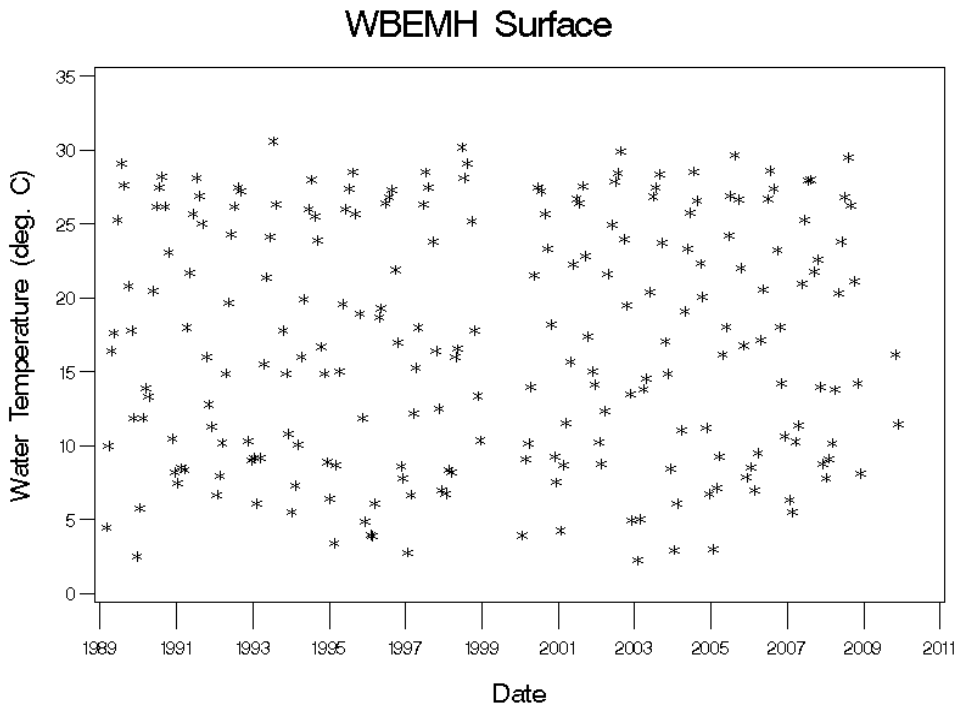

Figure 49. Scatterplot of surface water temperature at segment WBEMH during the period 1985 to 2009.

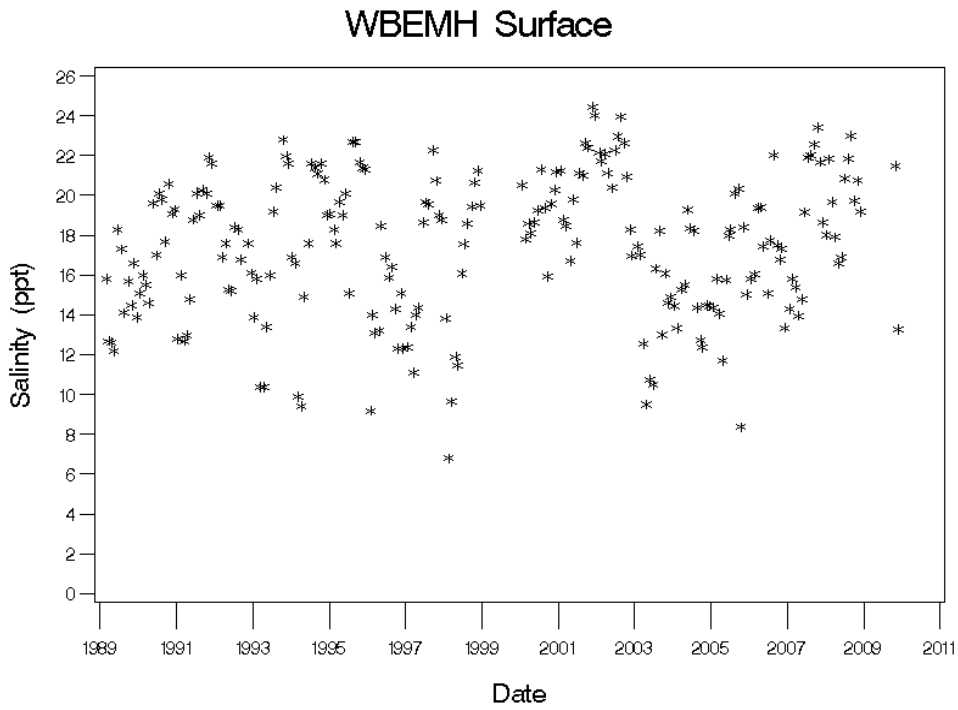

Figure 50. Scatterplot of surface salinity at segment WBEMH during the period 1985 to 2009.

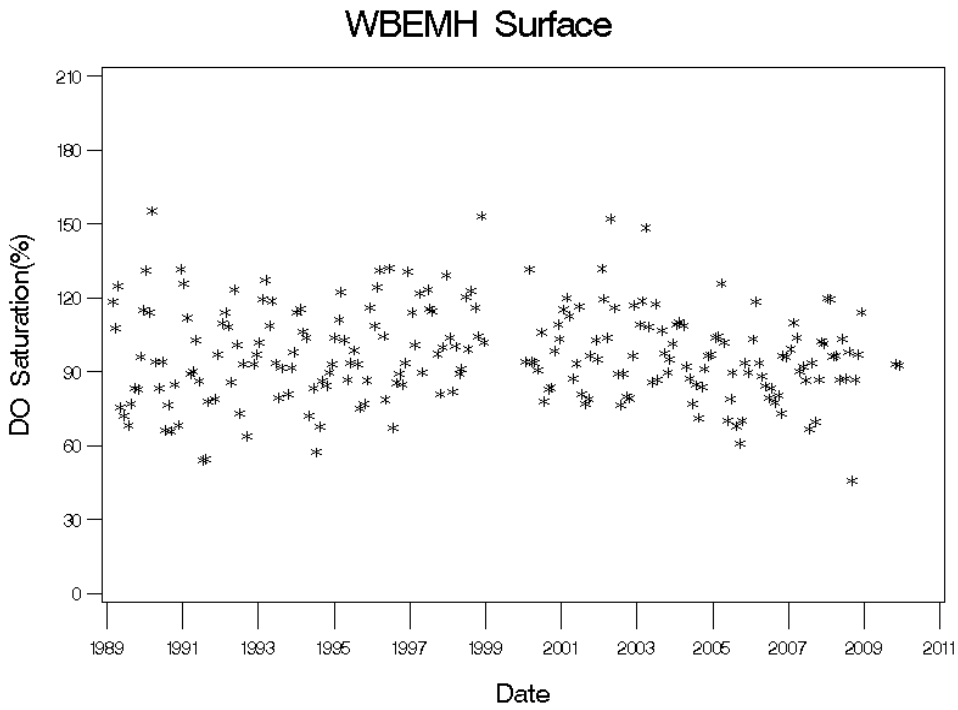

Figure 51. Scatterplot of surface DO saturation at segment WBEMH during the period 1985 to 2009.

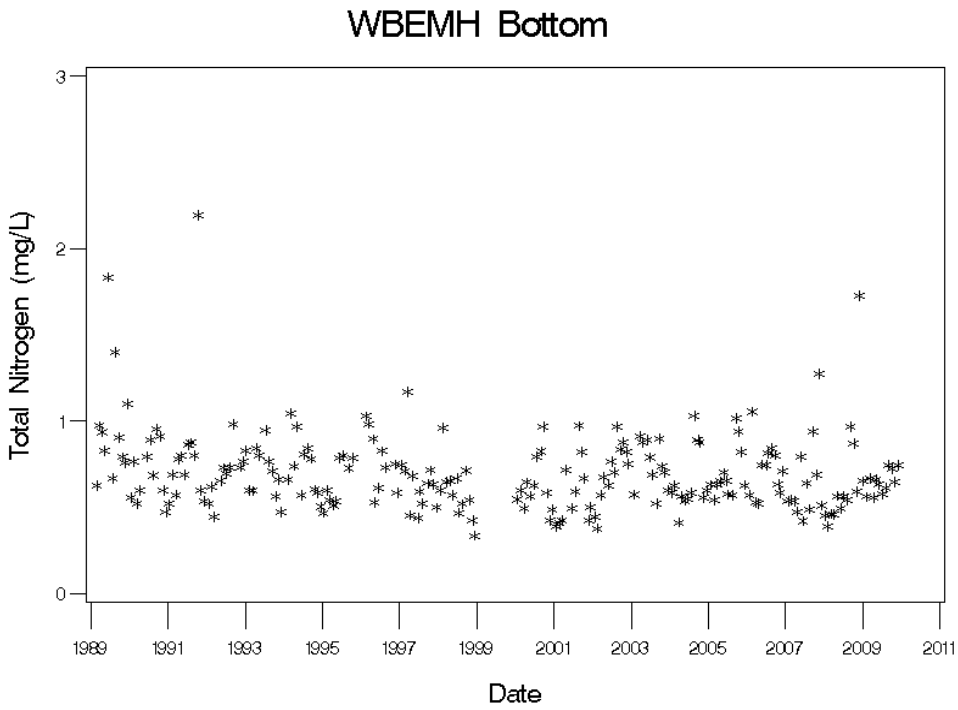

Figure 52. Scatterplots of bottom total nitrogen at segment WBEMH during the period of 1989 to 2009.

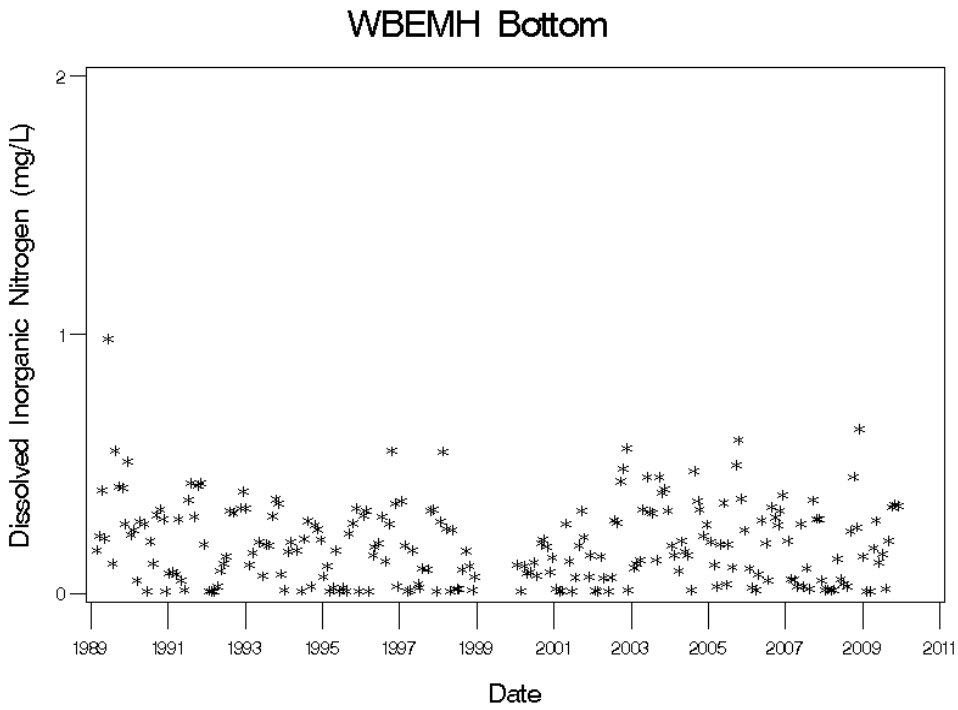

Figure 53. Scatterplots of bottom dissolved inorganic nitrogen at segment WBEMH during the period of 1989 to 2009.

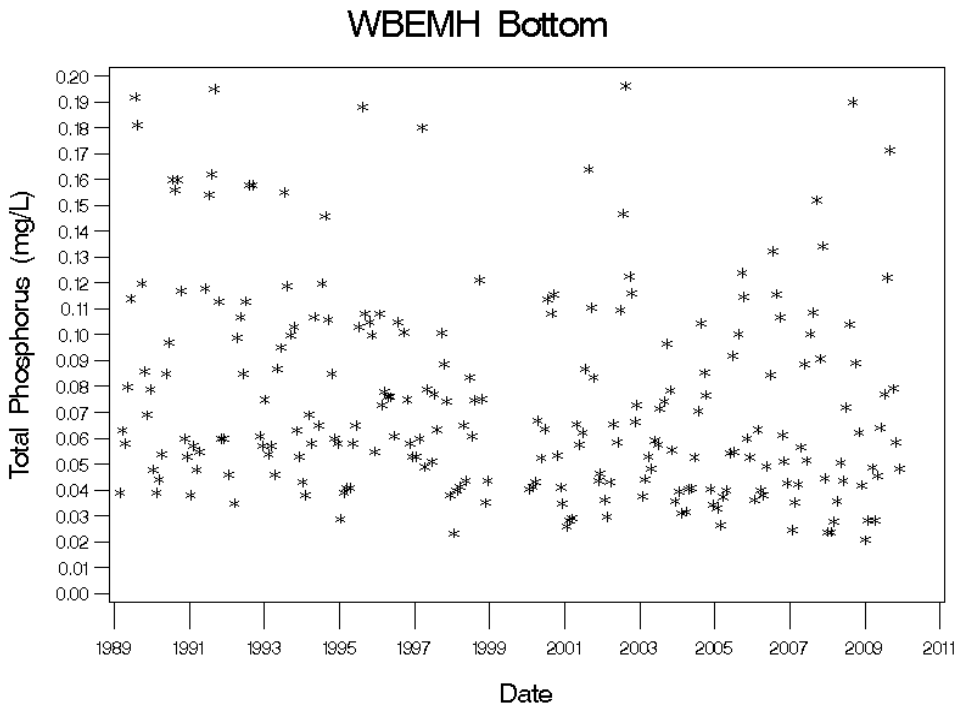

Figure 54. Scatterplots of bottom total phosphorus at segment WBEMH during the period of 1989 to 2009.

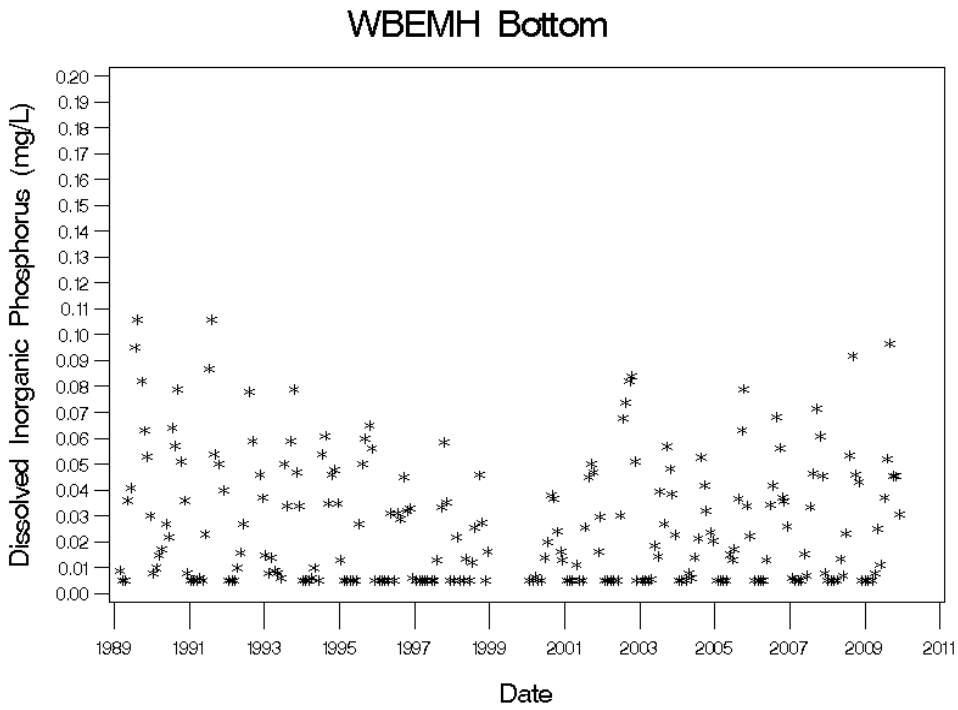

Figure 55. Scatterplots of bottom dissolved inorganic phosphorus at segment WBEMH during the period of 1989 to 2009.

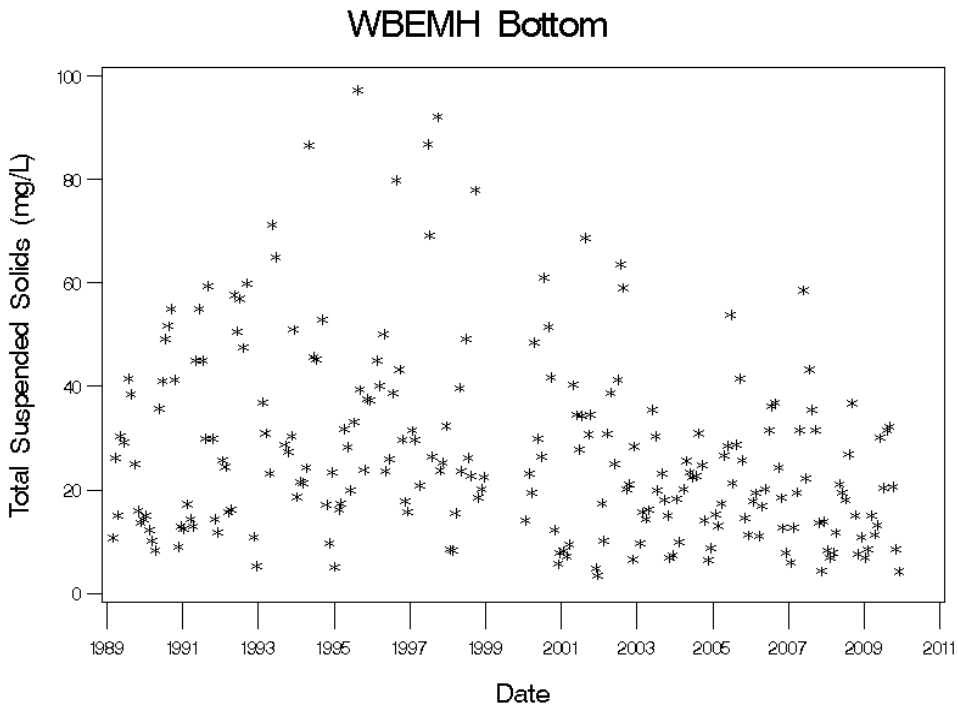

Figure 56. Scatterplot of bottom total suspended solids at segment WBEMH during the period 1985 to 2009.

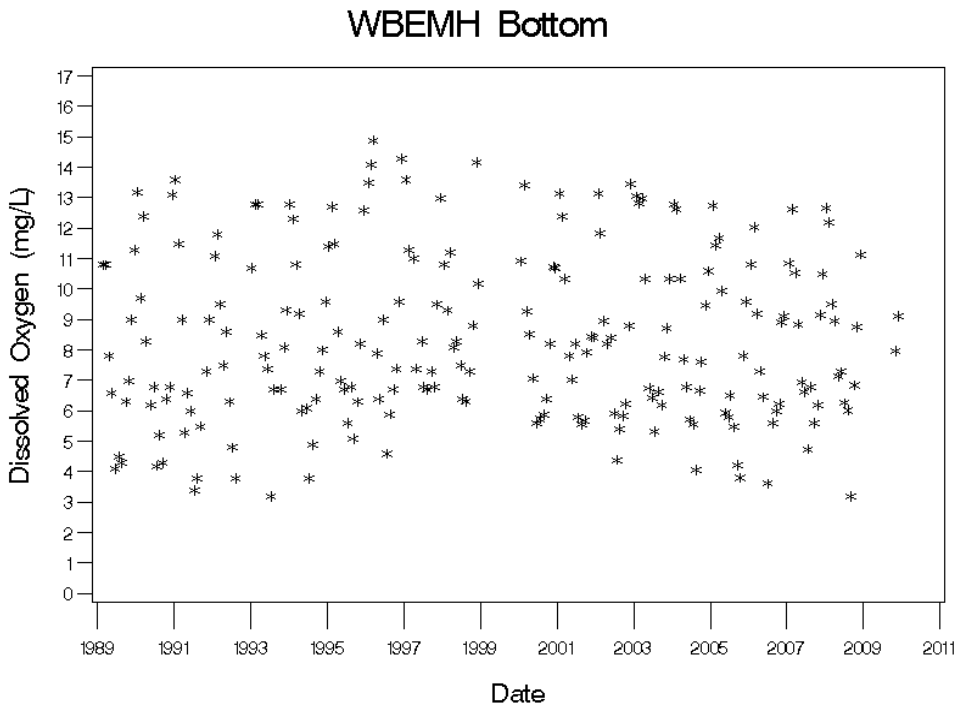

Figure 57. Scatterplot of bottom dissolved oxygen at segment WBEMH during the period 1985 to 2009.

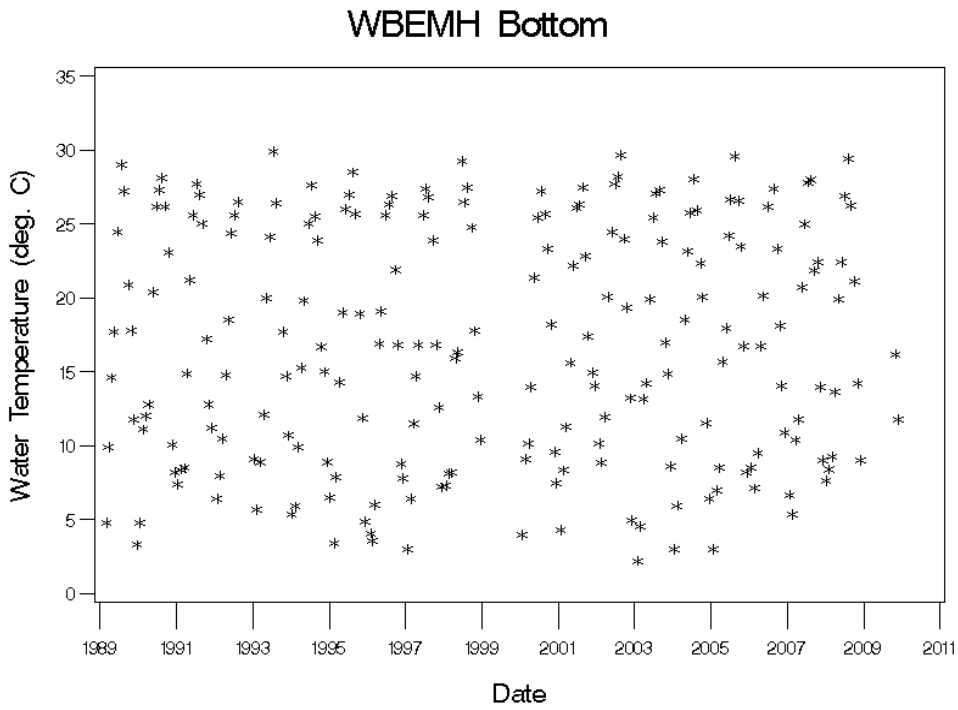

Figure 58. Scatterplot of bottom water temperature at segment WBEMH during the period 1985 to 2009.

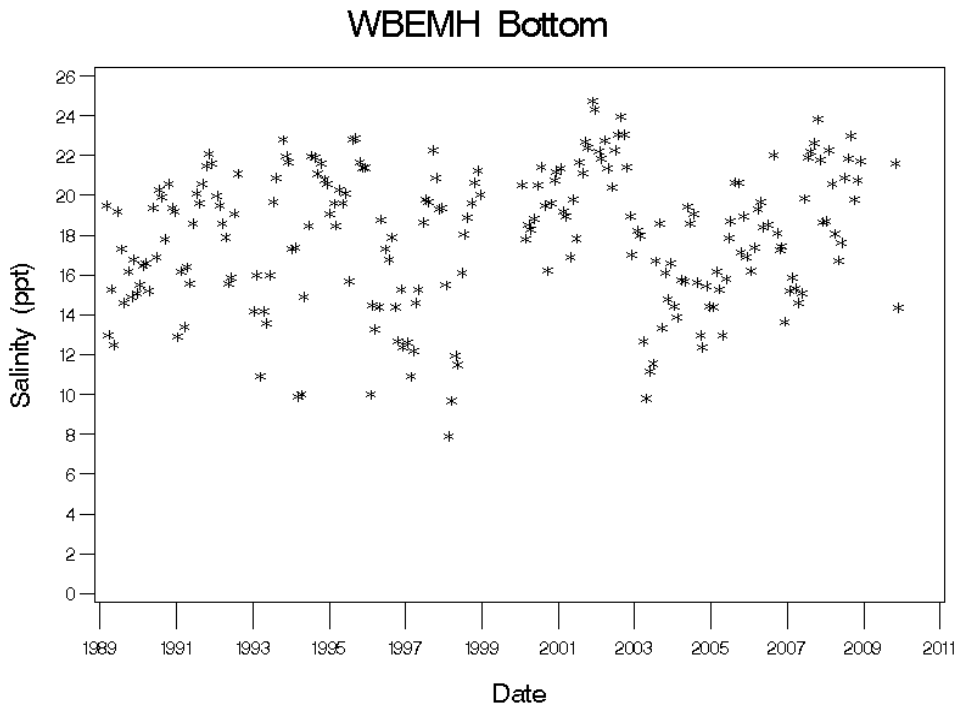

Figure 59. Scatterplot of bottom salinity at segment WBEMH during the period 1985 to 2009.

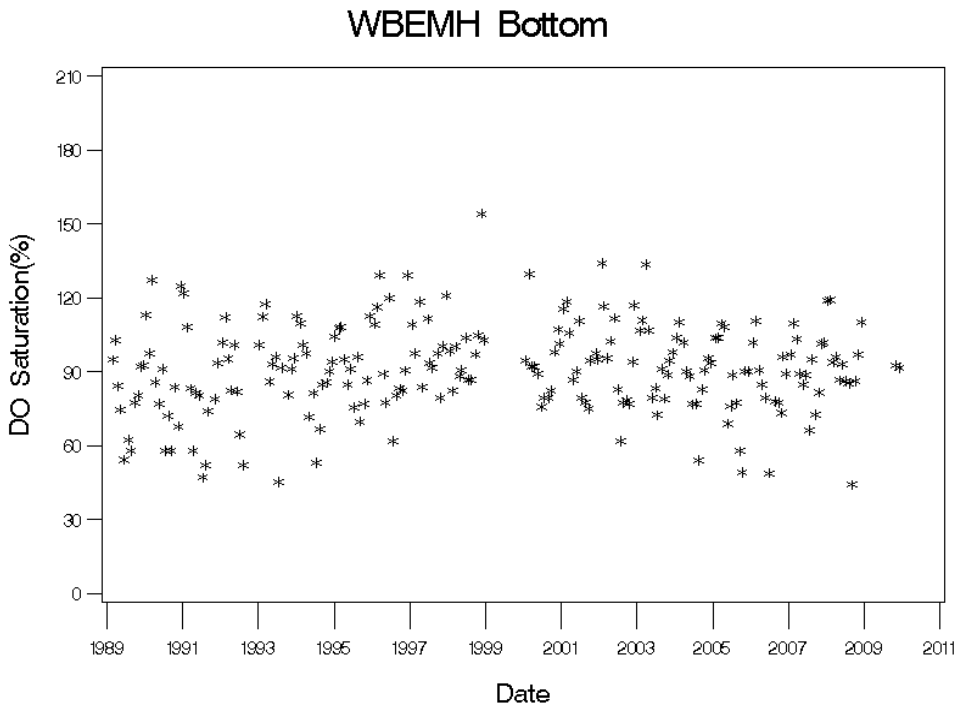

Figure 60. Scatterplot of bottom DO saturation at segment WBEMH during the period 1985 to 2009.

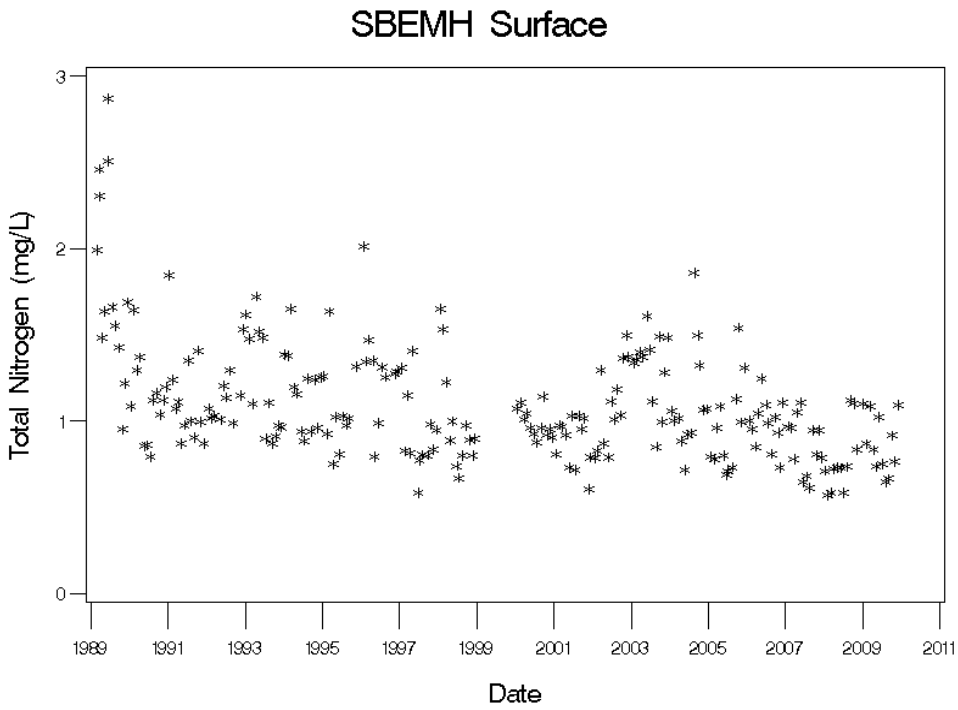

Figure 61. Scatterplots of surface total nitrogen at segment SBEMH during the period of 1989 to 2009.

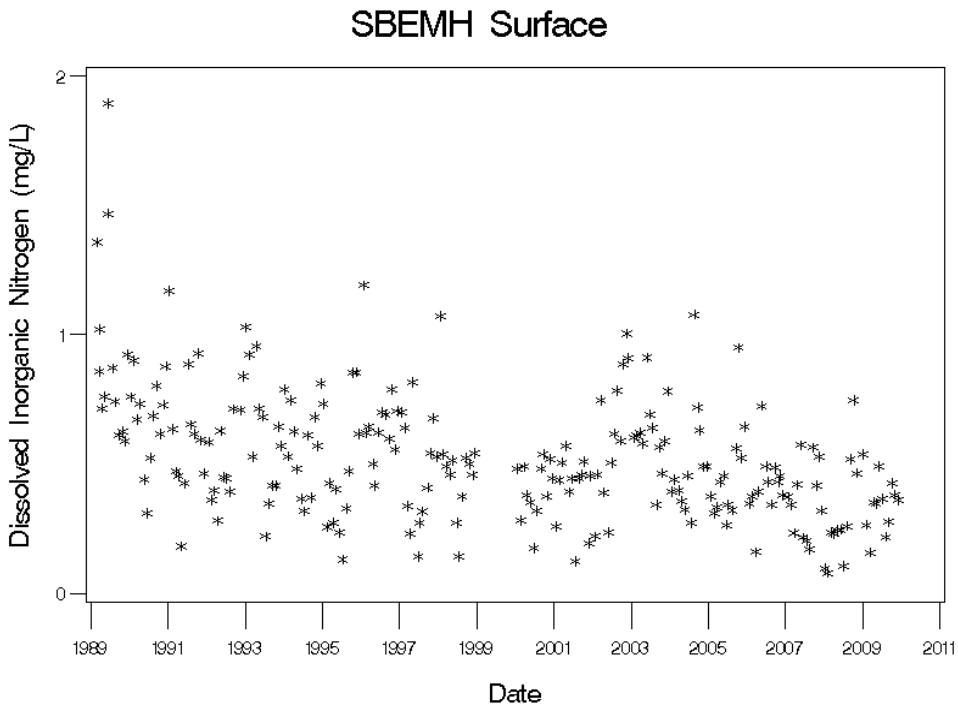

Figure 62. Scatterplots of surface dissolved inorganic nitrogen at segment SBEMH during the period of 1989 to 2009.

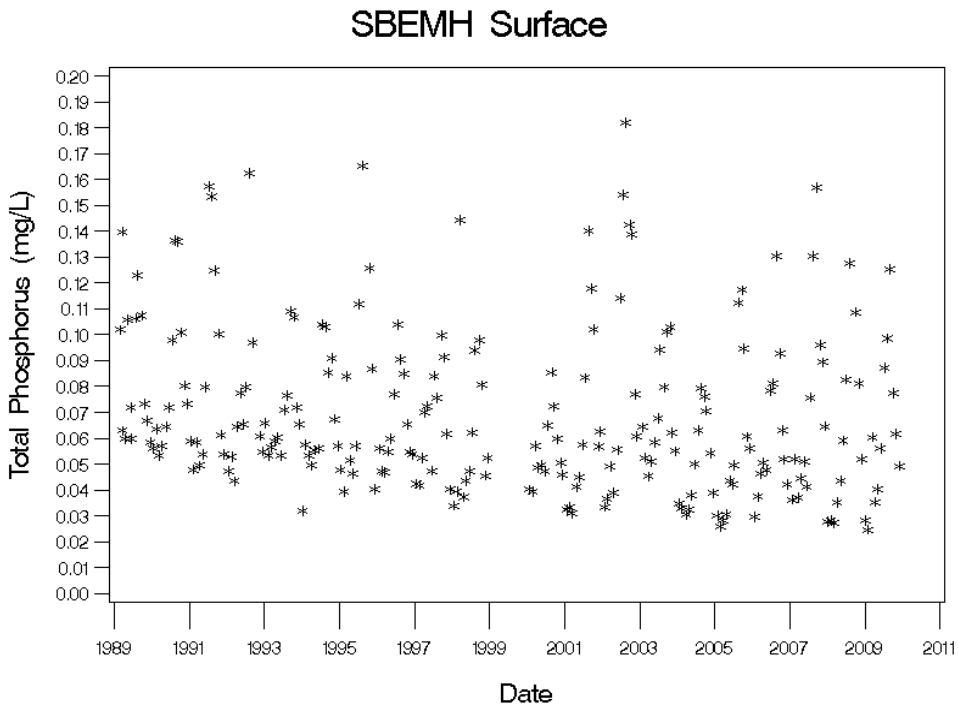

Figure 63. Scatterplots of surface total phosphorus at segment SBEMH during the period of 1989 to 2009.

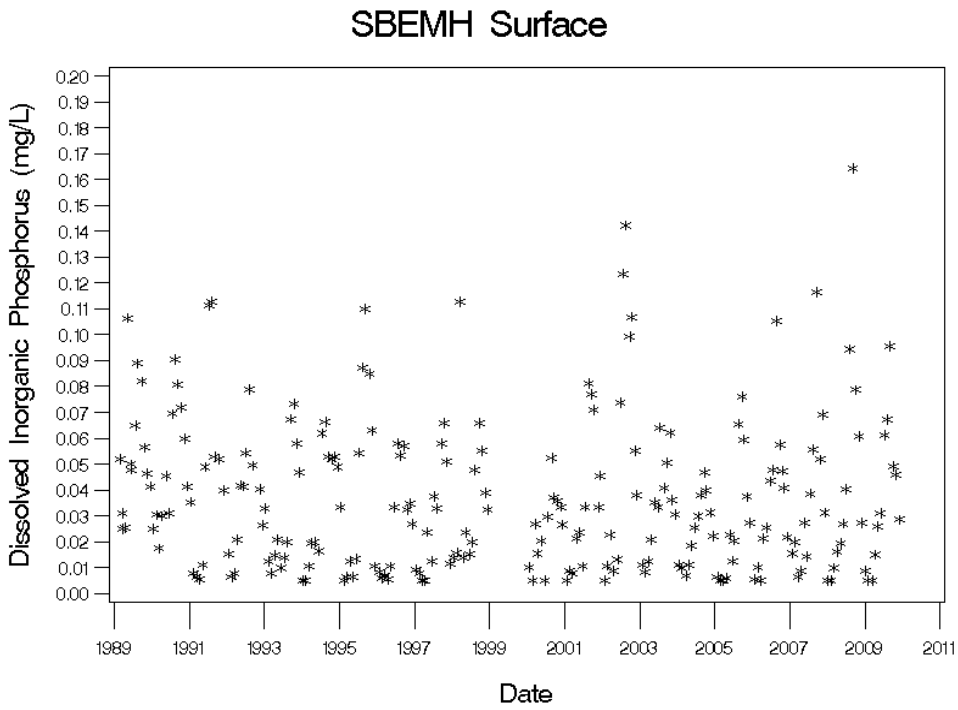

Figure 64. Scatterplots of surface dissolved inorganic phosphorus at segment SBEMH during the period of 1989 to 2009.

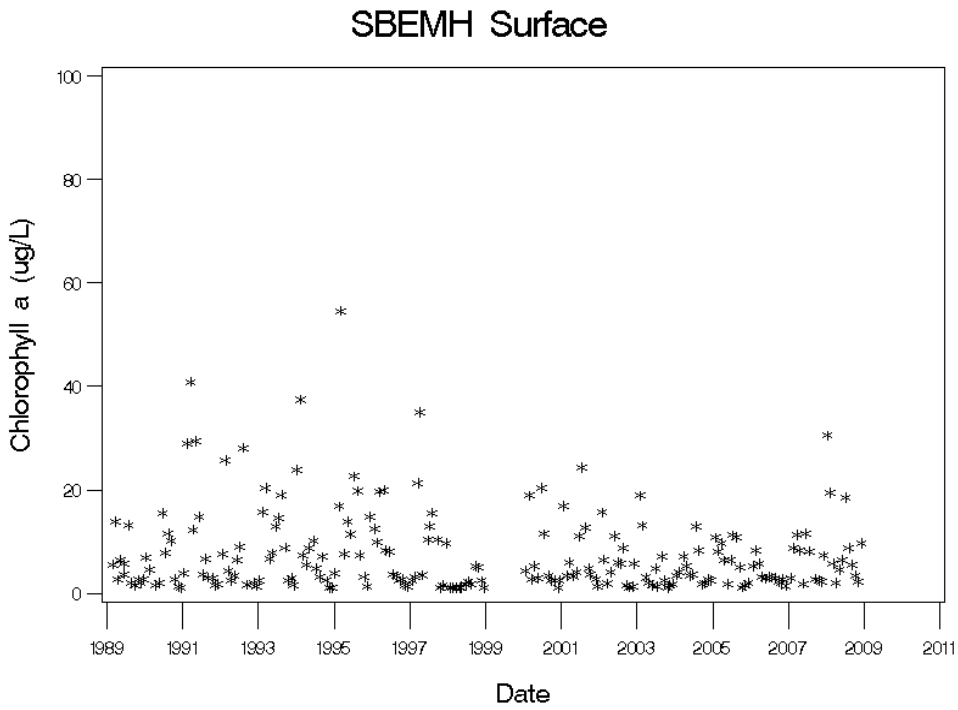

Figure 65. Scatterplot of surface chlorphyll a at segment SBEMH during the period 1985 to 2009.

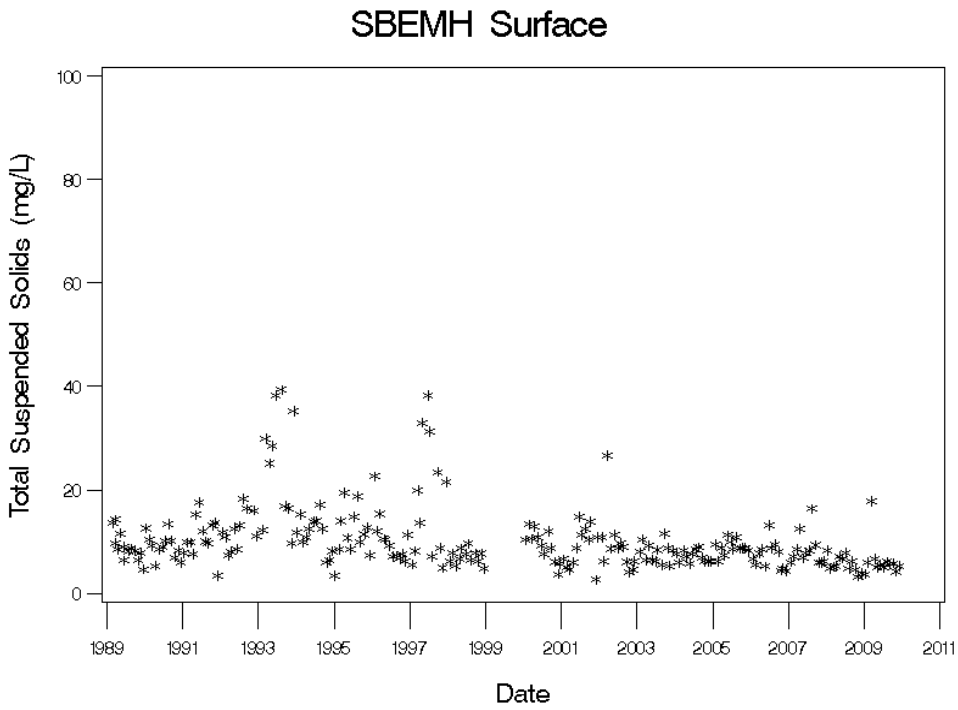

Figure 66. Scatterplot of surface total suspended solids at segment SBEMH during the period 1985 to 2009.

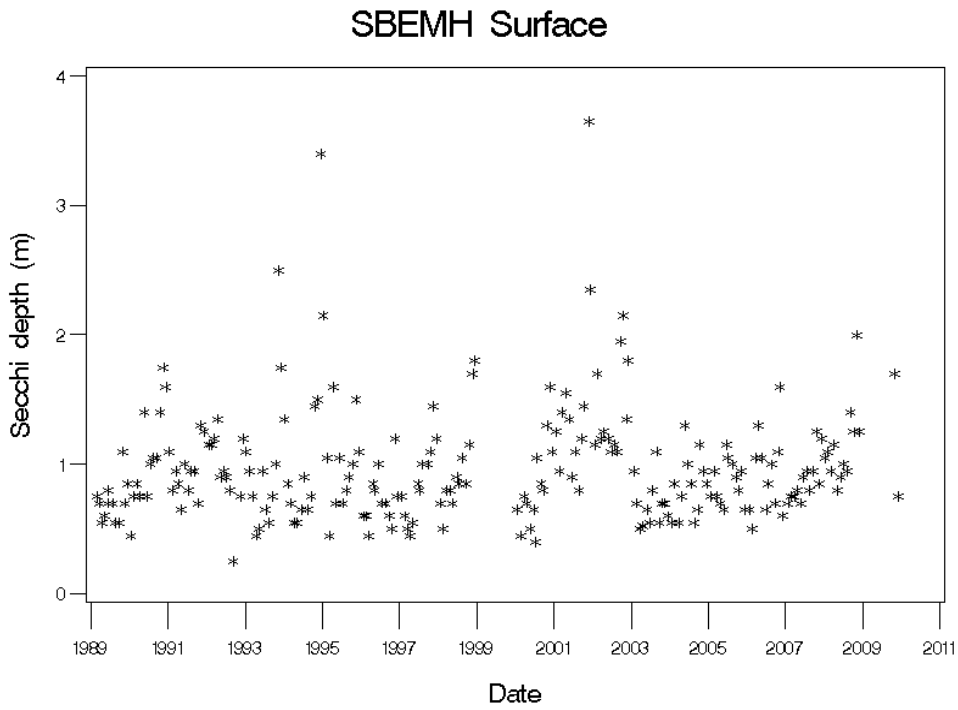

Figure 67. Scatterplot of secchi depth at segment SBEMH during the period 1989 through 2009.

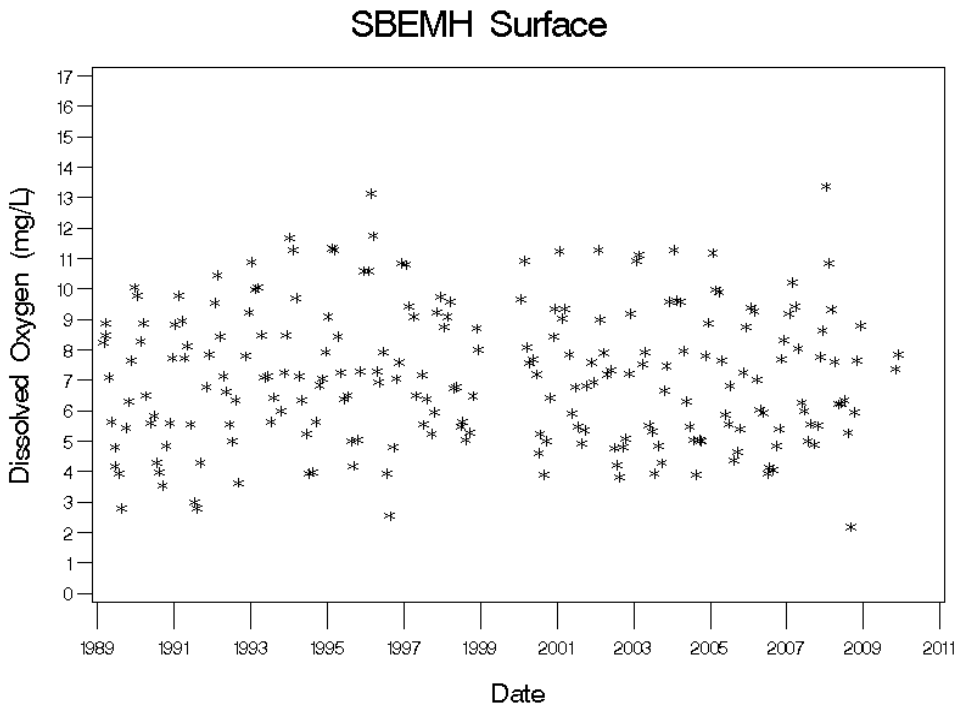

Figure 68. Scatterplot of surface dissolved oxygen at segment SBEMH during the period 1985 to 2009.

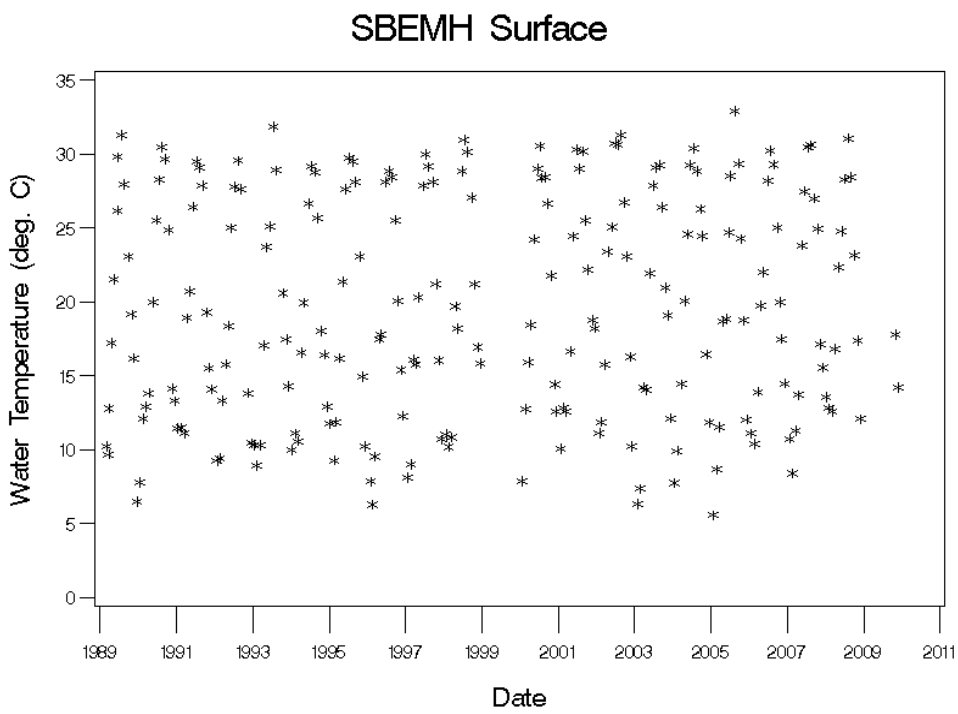

Figure 69. Scatterplot of surface water temperature at segment SBEMH during the period 1985 to 2009.

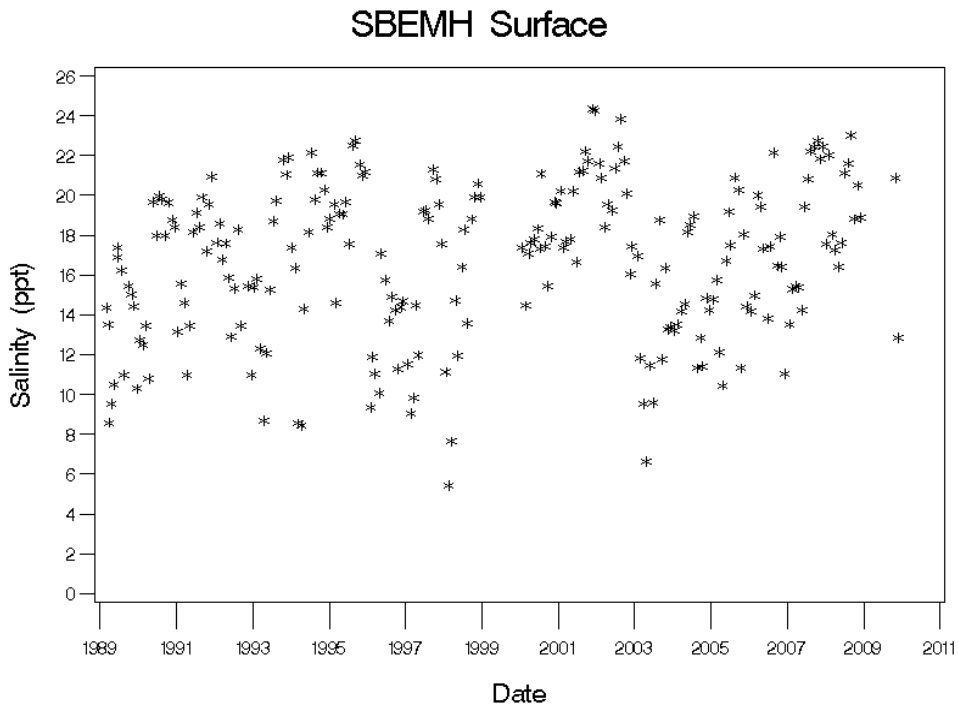

Figure 70. Scatterplot of surface salinity at segment SBEMH during the period 1985 to 2009.

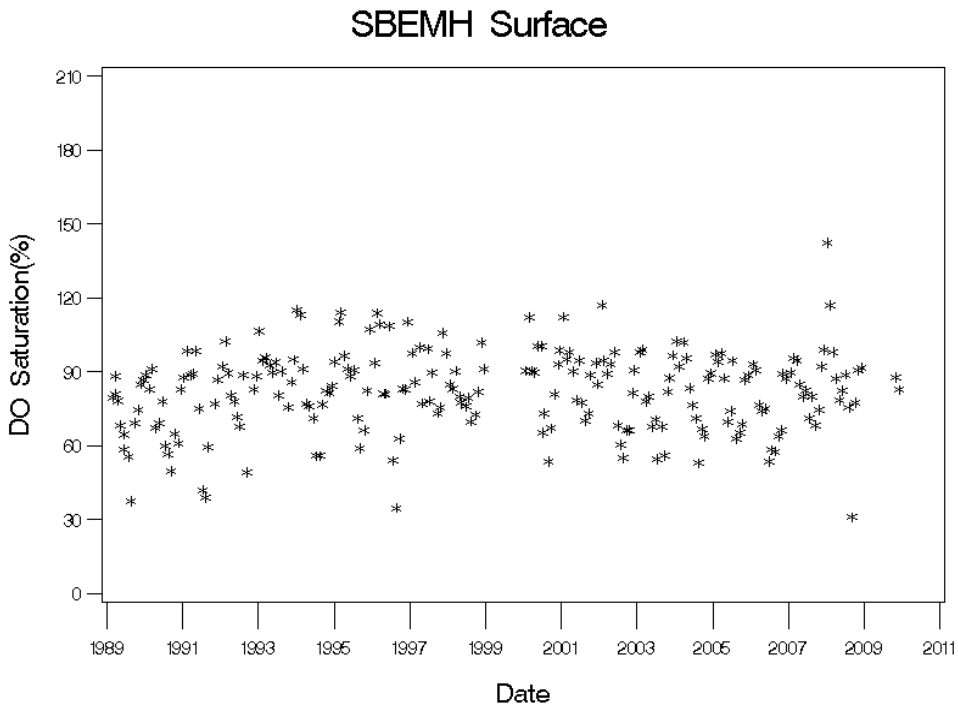

Figure 71. Scatterplot of surface DO saturation at segment SBEMH during the period 1985 to 2009.

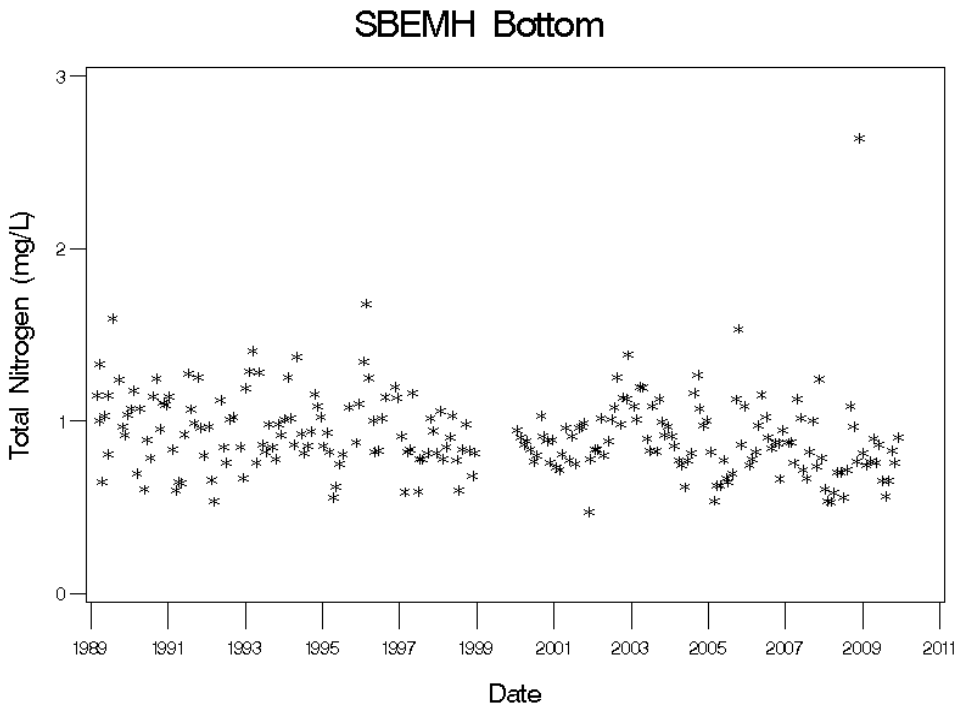

Figure 72. Scatterplots of bottom total nitrogen at segment SBEMH during the period of 1989 to 2009.

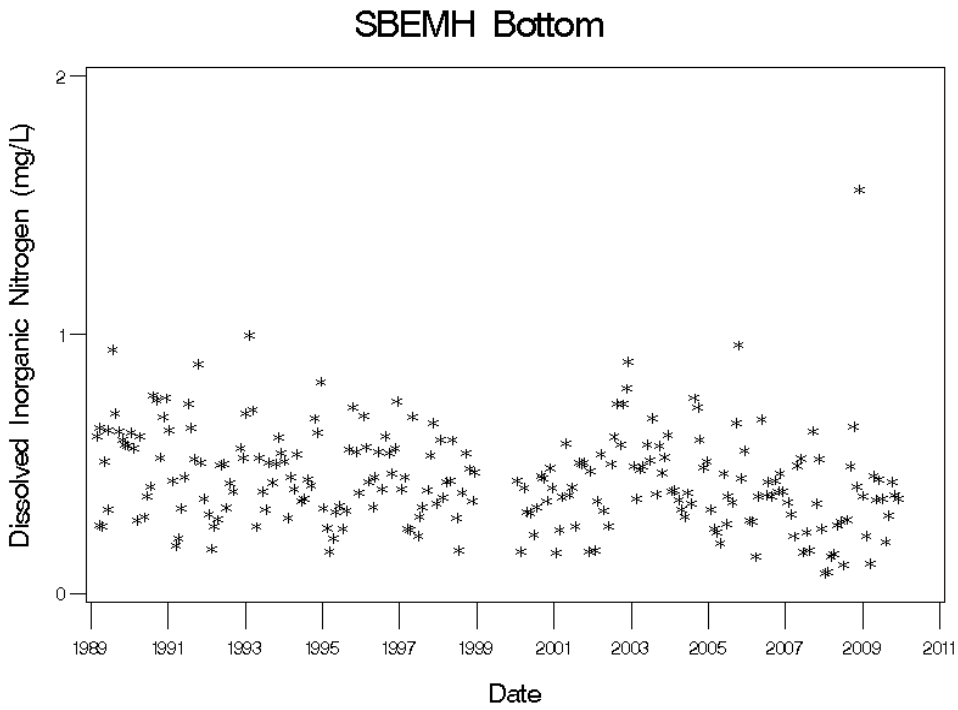

Figure 73. Scatterplots of bottom dissolved inorganic nitrogen at segment SBEMH during the period of 1989 to 2009.

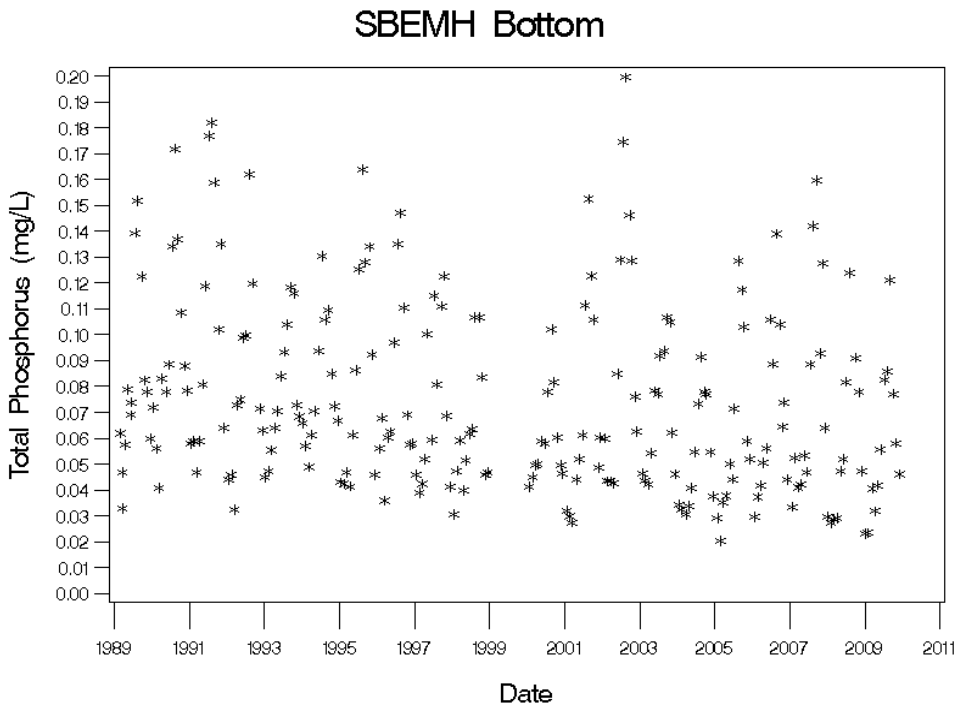

Figure 74. Scatterplots of bottom total phosphorus at segment SBEMH during the period of 1989 to 2009.

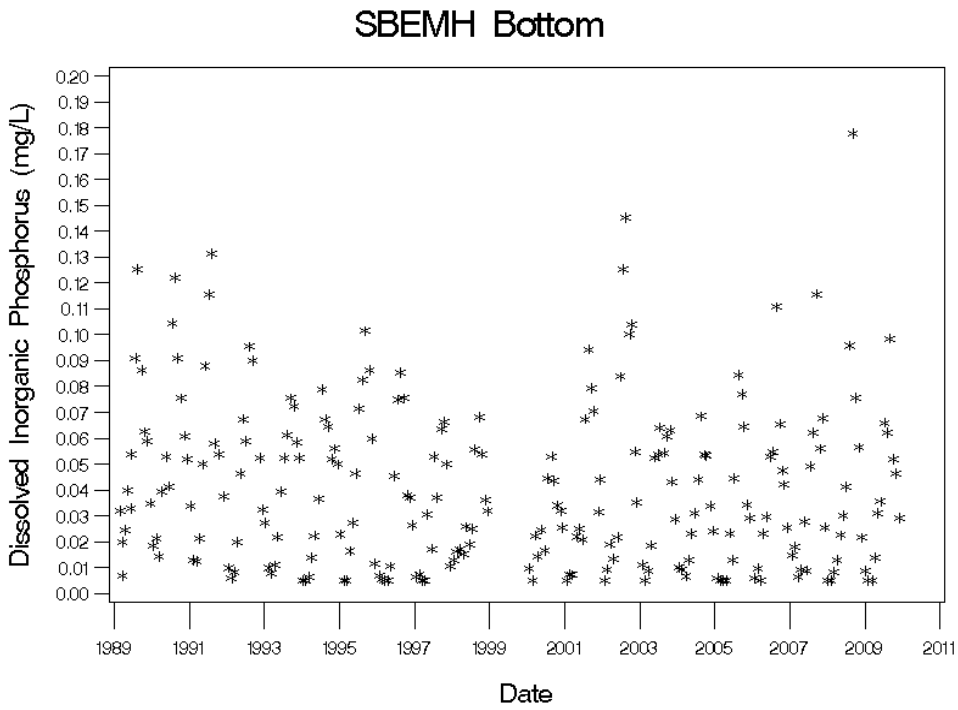

Figure 75. Scatterplots of bottom dissolved inorganic phosphorus at segment SBEMH during the period of 1989 to 2009.

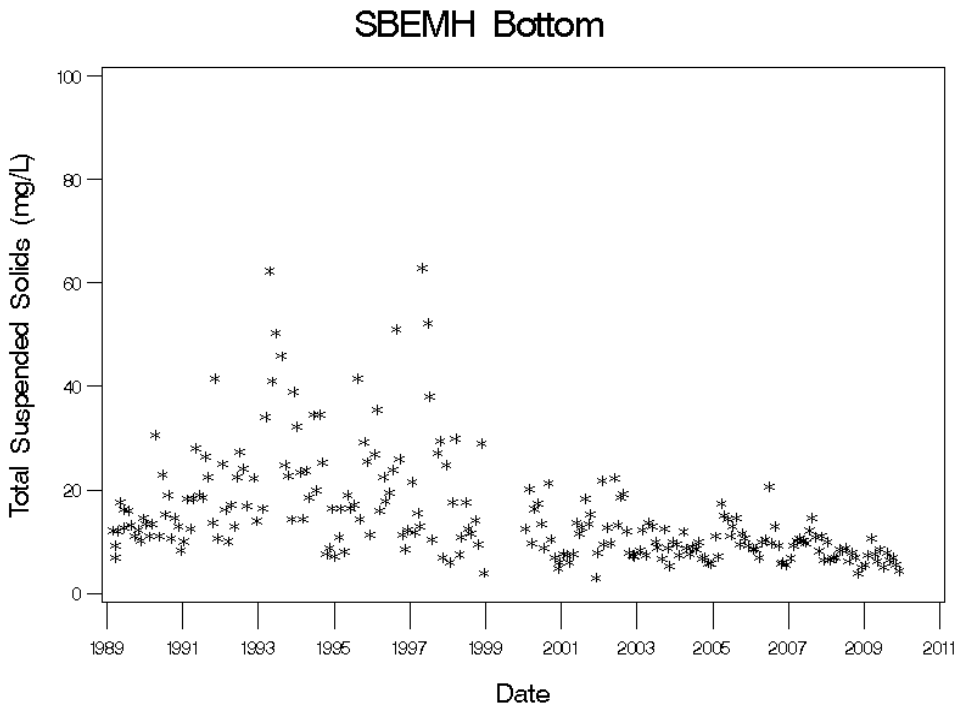

Figure 76. Scatterplot of bottom total suspended solids at segment SBEMH during the period 1985 to 2009.

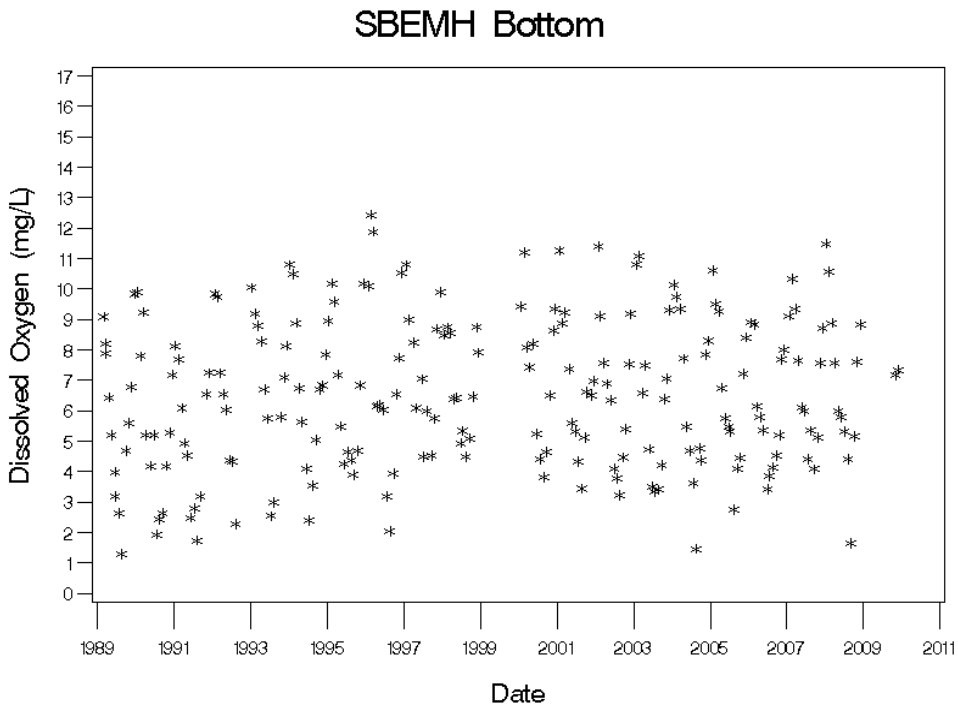

Figure 77. Scatterplot of bottom dissolved oxygen at segment SBEMH during the period 1985 to 2009.

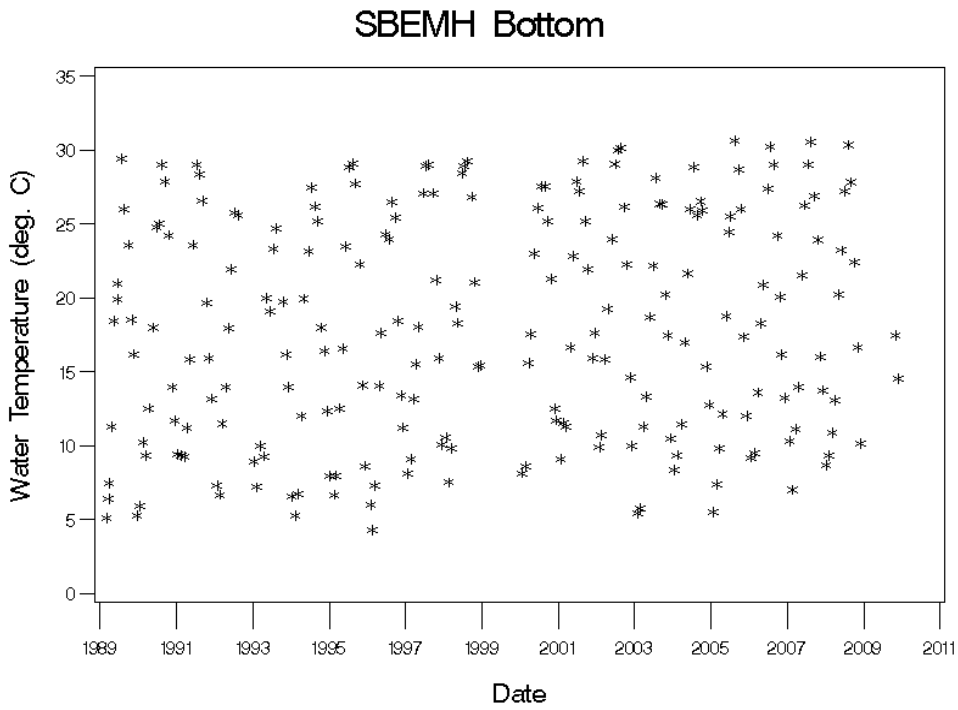

Figure 78. Scatterplot of bottom water temperature at segment SBEMH during the period 1985 to 2009.

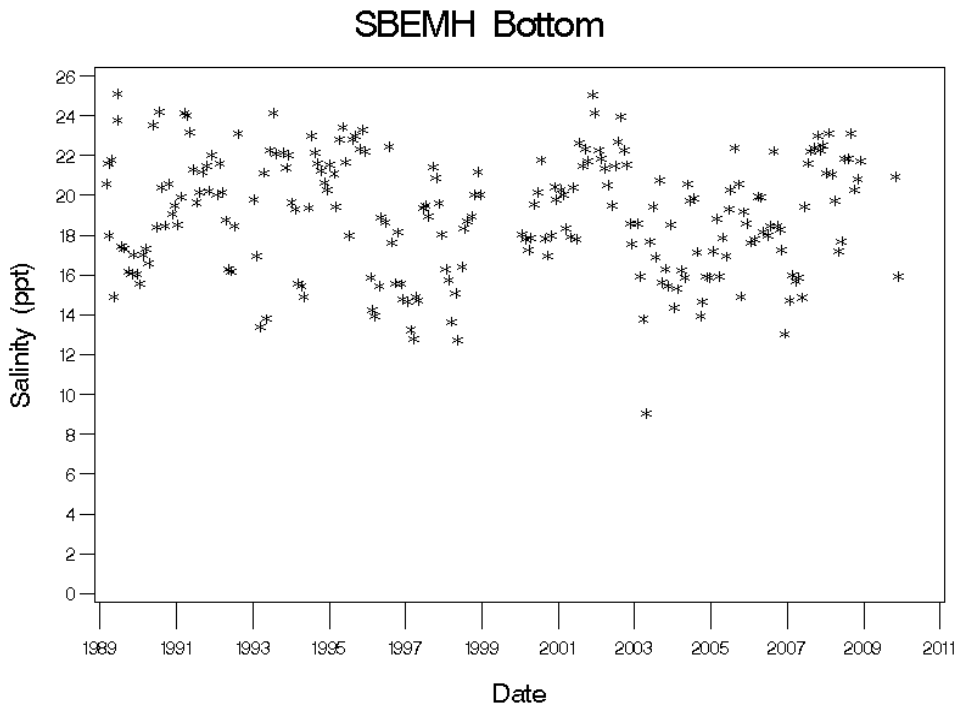

Figure 79. Scatterplot of bottom salinity at segment SBEMH during the period 1985 to 2009.

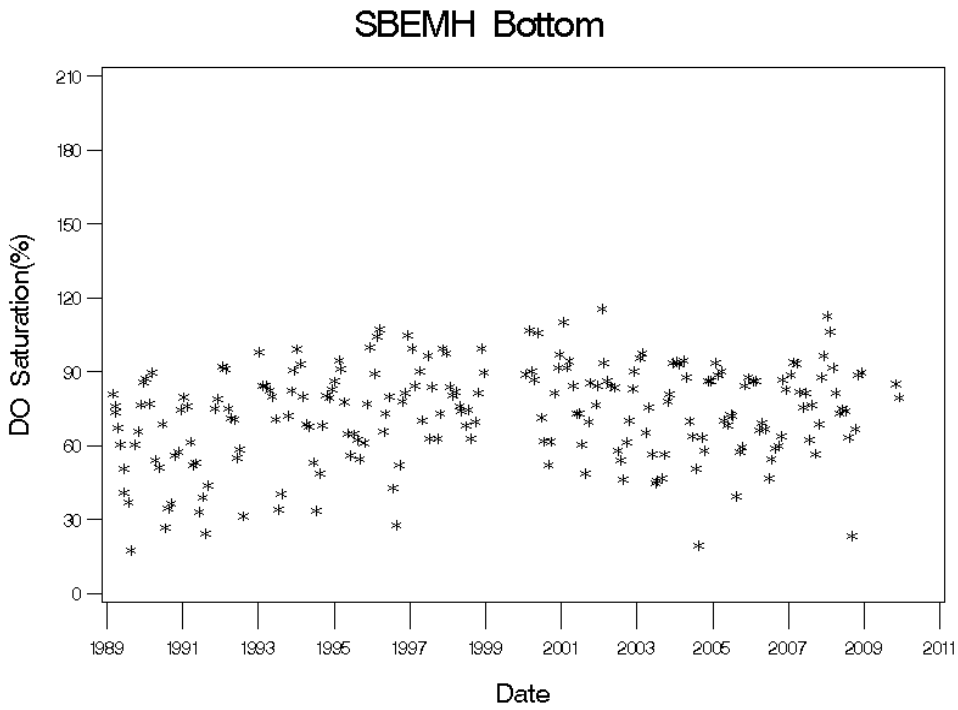

Figure 80. Scatterplot of bottom DO saturation at segment SBEMH during the period 1985 to 2009.