Appendix B – Scatterplots of Water Quality Parameters

Section - III York River

List of Figures

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

Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 2

Figure 3. Scatterplots of surface total phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 3

Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 4

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

Figure 6. Scatterplot of surface total suspended solids at segment PMKTF during the period 1985 to 2009. 6

Figure 7. Scatterplot of secchi depth at segment PMKTF during the period 1985 to 2009. 7

Figure 8. Scatterplot of surface dissolved oxygen at segment PMKTF during the period 1985 to 2009. 8

Figure 9. Scatterplot of surface water temperature at segment PMKTF during the period 1985 to 2009. 9

Figure 10. Scatterplot of surface salinity at segment PMKTF during the period 1985 to 2009. 10

Figure 11. Scatterplot of surface DO saturation at segment PMKTF during the period 1985 to 2009. 11

Figure 12. Scatterplots of bottom total nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 12

Figure 13. Scatterplots of bottom dissolved inorganic nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 13

Figure 14. Scatterplots of bottom total phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 14

Figure 15. Scatterplots of bottom dissolved inorganic phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 15

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

Figure 17. Scatterplot of bottom dissolved oxygen at segment PMKTF during the period 1985 to 2009. 17

Figure 18. Scatterplot of bottom water temperature at segment PMKTF during the period 1985 to 2009. 18

Figure 19. Scatterplot of bottom salinity at segment PMKTF during the period 1985 to 2009. 19

Figure 20. Scatterplot of bottom DO saturation at segment PMKTF during the period 1985 to 2009. 20

Figure 21. Scatterplots of surface total nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 21

Figure 22. Scatterplots of surface dissolved inorganic nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 22

Figure 23. Scatterplots of surface total phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 23

Figure 24. Scatterplots of surface dissolved inorganic phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 24

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

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

Figure 27. Scatterplot of secchi depth at segment PMKOH during the period 1985 to 2009. 27

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

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

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

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

Figure 32. Scatterplots of bottom total nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 32

Figure 33. Scatterplots of bottom dissolved inorganic nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 33

Figure 34. Scatterplots of bottom total phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 34

Figure 35. Scatterplots of bottom dissolved inorganic phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 35

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

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

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

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

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

Figure 41. Scatterplots of surface total nitrogen at segment MPNTF during the a) Pre-method change (1985- 1993) and b) Post-method change (1995-2009) periods. 41

Figure 42. Scatterplots of surface dissolved inorganic nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 42

Figure 43. Scatterplots of surface total phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 43

Figure 44. Scatterplots of surface dissolved inorganic phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 44

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

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

Figure 47. Scatterplot of secchi depth at segment MPNTF during the period 1985 to 2009. 47

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

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

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

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

Figure 52. Scatterplots of bottom total nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 52

Figure 53. Scatterplots of bottom dissolved inorganic nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 53

Figure 54. Scatterplots of bottom total phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 54

Figure 55. Scatterplots of bottom dissolved inorganic phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 55

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

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

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

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

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

Figure 61. Scatterplots of surface total nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 61

Figure 62. Scatterplots of surface dissolved inorganic nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 62

Figure 63. Scatterplots of surface total phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 63

Figure 64. Scatterplots of surface dissolved inorganic phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 64

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

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

Figure 67. Scatterplot of secchi depth at segment MPNOH during the period 1985 to 2009. 67

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

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

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

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

Figure 72. Scatterplots of bottom total nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 72

Figure 73. Scatterplots of bottom dissolved inorganic nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 73

Figure 74. Scatterplots of bottom total phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 74

Figure 75. Scatterplots of bottom dissolved inorganic phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 75

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

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

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

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

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

Figure 81. Scatterplots of surface total nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 81

Figure 82. Scatterplots of surface dissolved inorganic nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 82

Figure 83. Scatterplots of surface total phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 83

Figure 84. Scatterplots of surface dissolved inorganic phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 84

Figure 85. Scatterplot of surface chlorphyll a at segment YRKMH during the period 1985 to 2009. 85

Figure 86. Scatterplot of surface total suspended solids at segment YRKMH during the period 1985 to 2009. 86

Figure 87. Scatterplot of secchi depth at segment YRKMH during the period 1985 to 2009. 87

Figure 88. Scatterplot of surface dissolved oxygen at segment YRKMH during the period 1985 to 2009. 88

Figure 89. Scatterplot of surface water temperature at segment YRKMH during the period 1985 to 2009. 89

Figure 90. Scatterplot of surface salinity at segment YRKMH during the period 1985 to 2009. 90

Figure 91. Scatterplot of surface DO saturation at segment YRKMH during the period 1985 to 2009. 91

Figure 92. Scatterplots of bottom total nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 92

Figure 93. Scatterplots of bottom dissolved inorganic nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 93

Figure 94. Scatterplots of bottom total phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 94

Figure 95. Scatterplots of bottom dissolved inorganic phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 95

Figure 96. Scatterplot of bottom total suspended solids at segment YRKMH during the period 1985 to 2009. 96

Figure 97. Scatterplot of bottom dissolved oxygen at segment YRKMH during the period 1985 to 2009. 97

Figure 98. Scatterplot of bottom water temperature at segment YRKMH during the period 1985 to 2009. 98

Figure 99. Scatterplot of bottom salinity at segment YRKMH during the period 1985 to 2009. 99

Figure 100. Scatterplot of bottom DO saturation at segment YRKMH during the period 1985 to 2009. 100

Figure 101. Scatterplots of surface total nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 101

Figure 102. Scatterplots of surface dissolved inorganic nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 102

Figure 103. Scatterplots of surface total phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 103

Figure 104. Scatterplots of surface dissolved inorganic phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 104

Figure 105. Scatterplot of surface chlorphyll a at segment YRKPH during the period 1985 to 2009. 105

Figure 106. Scatterplot of surface total suspended solids at segment YRKPH during the period 1985 to 2009. 106

Figure 107. Scatterplot of secchi depth at segment YRKPH during the period 1985 to 2009. 107

Figure 108. Scatterplot of surface dissolved oxygen at segment YRKPH during the period 1985 to 2009. 108

Figure 109. Scatterplot of surface water temperature at segment YRKPH during the period 1985 to 2009. 109

Figure 110. Scatterplot of surface salinity at segment YRKPH during the period 1985 to 2009. 110

Figure 111. Scatterplot of surface DO saturation at segment YRKPH during the period 1985 to 2009. 111

Figure 112. Scatterplots of bottom total nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 112

Figure 113. Scatterplots of bottom dissolved inorganic nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 113

Figure 114. Scatterplots of bottom total phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 114

Figure 115. Scatterplots of bottom dissolved inorganic phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 115

Figure 116. Scatterplot of bottom total suspended solids at segment YRKPH during the period 1985 to 2009. 116

Figure 117. Scatterplot of bottom dissolved oxygen at segment YRKPH during the period 1985 to 2009. 117

Figure 118. Scatterplot of bottom water temperature at segment YRKPH during the period 1985 to 2009. 118

Figure 119. Scatterplot of bottom salinity at segment YRKPH during the period 1985 to 2009. 119

Figure 120. Scatterplot of bottom DO saturation at segment YRKPH during the period 1985 to 2009. 120

Figure 121. Scatterplots of surface total nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 121

Figure 122. Scatterplots of surface dissolved inorganic nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 122

Figure 123. Scatterplots of surface total phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 123

Figure 124. Scatterplots of surface dissolved inorganic phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 124

Figure 125. Scatterplot of surface chlorphyll a at segment MOBPH during the period of 1985 to 2009. 125

Figure 126. Scatterplot of surface total suspended solids at segment MOBPH during the period of 1985 to 2009. 126

Figure 127. Scatterplot of secchi depth at segment MOBPH during the period of 1985 to 2009. 127

Figure 128. Scatterplot of surface dissolved oxygen at segment MOBPH during the period of 1985 to 2009. 128

Figure 129. Scatterplot of surface water temperature at segment MOBPH during the period of 1985 to 2009. 129

Figure 130. Scatterplot of surface salinity at segment MOBPH during the period of 1985 to 2009. 130

Figure 131. Scatterplot of surface DO saturation at segment MOBPH during the period 1985 to 2009. 131

Figure 132. Scatterplots of bottom total nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 132

Figure 133. Scatterplots of bottom dissolved inorganic nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 133

Figure 134. Scatterplots of bottom total phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 134

Figure 135. Scatterplots of bottom dissolved inorganic phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods. 135

Figure 136. Scatterplot of bottom total suspended solids at segment MOBPH during the period of 1985 to 2009. 136

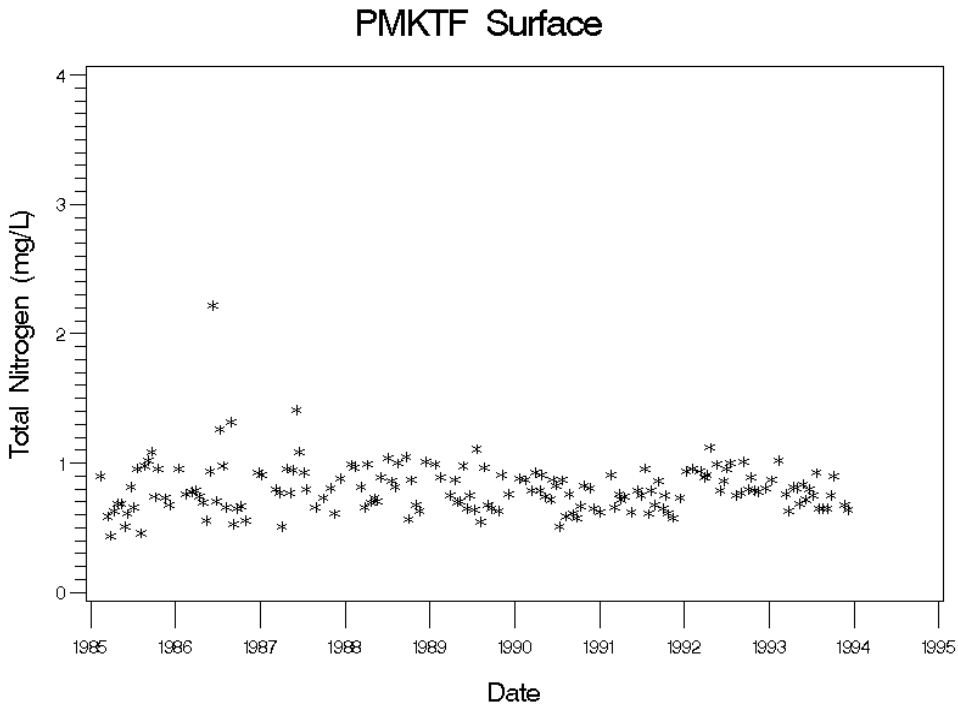
Figure 137. Scatterplot of bottom dissolved oxygen at segment MOBPH during the period of 1985 to 2009. 137

Figure 138. Scatterplot of bottom water temperature at segment MOBPH during the period of 1985 to 2009. 138

Figure 139. Scatterplot of bottom salinity at segment MOBPH during the period of 1985 to 2009. 139

Figure 140. Scatterplot of bottom DO saturation at segment MOBPH during the period 1985 to 2009. 140

a) Pre-method change period



b) Post-method change period

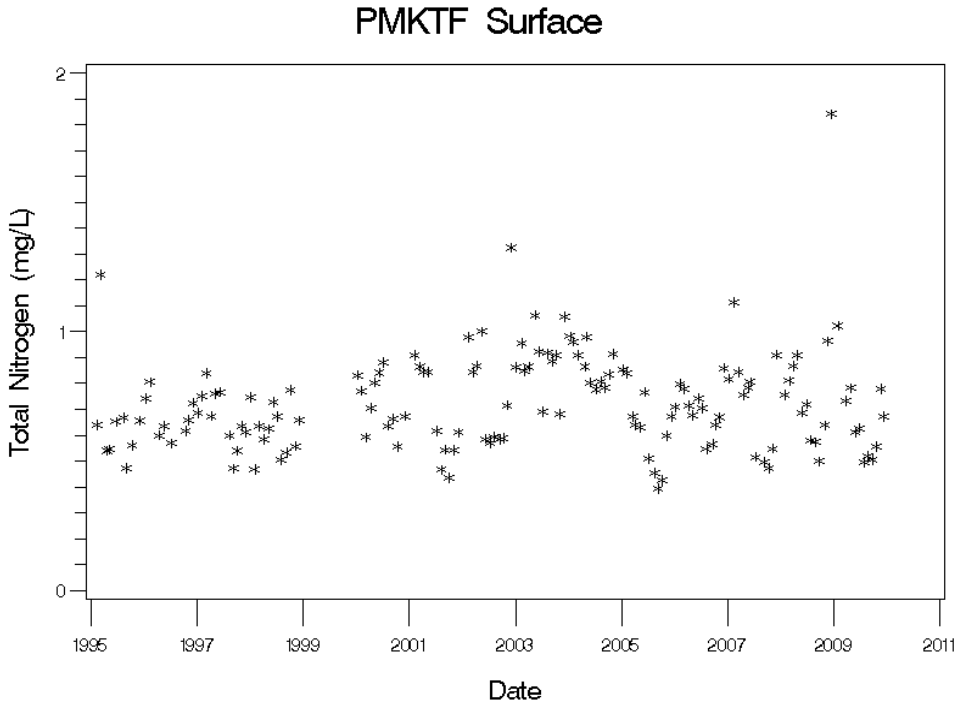
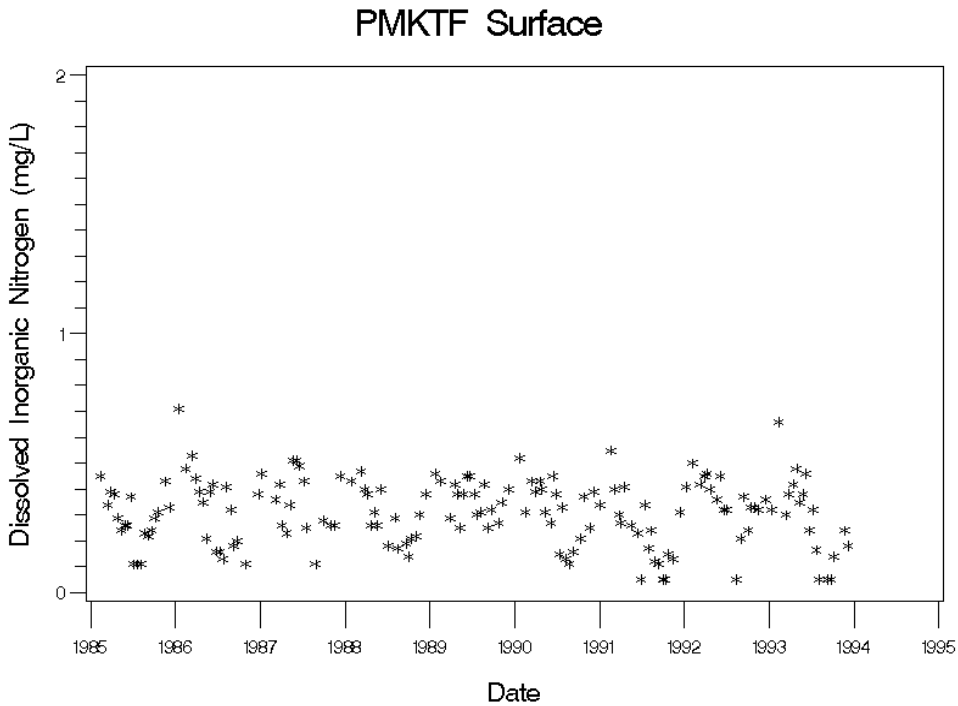


Figure 1. Scatterplots of surface total nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

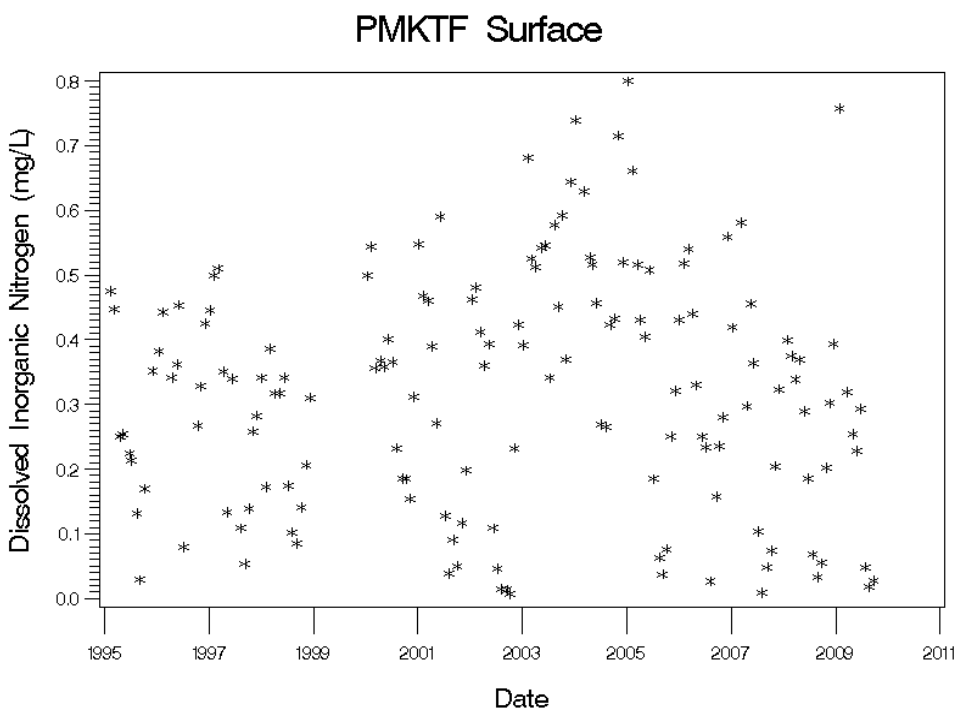
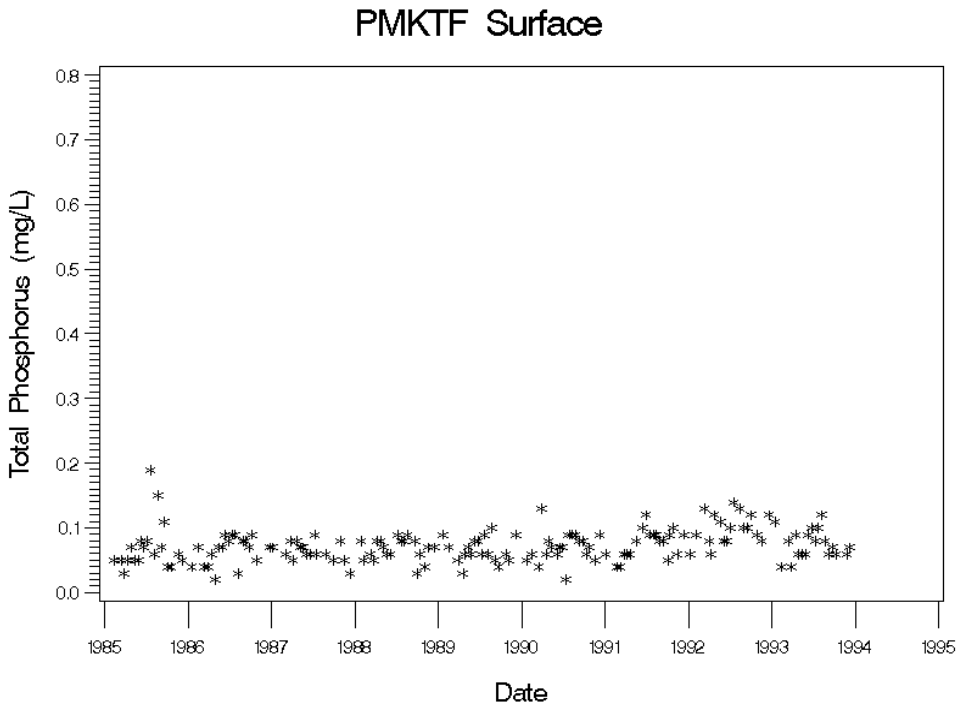


Figure 2. Scatterplots of surface dissolved inorganic nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

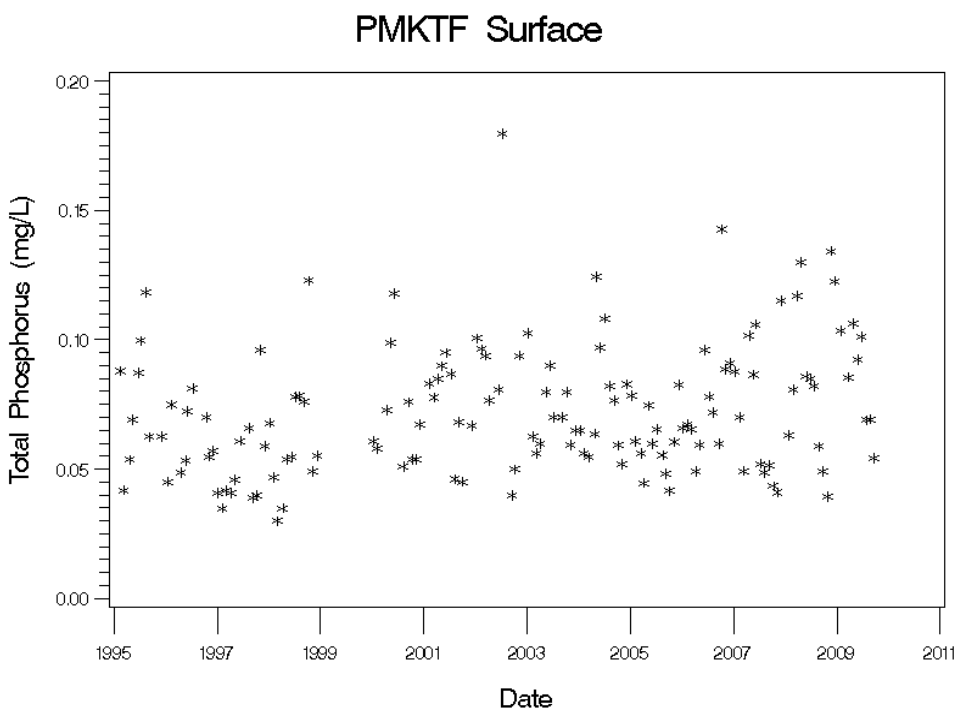
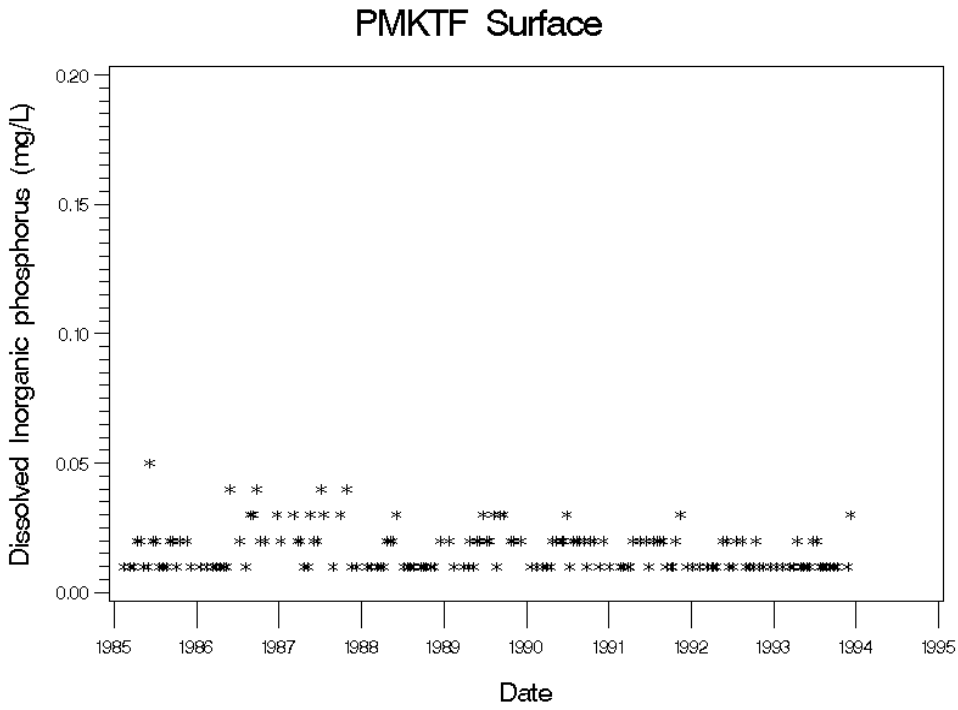


Figure 3. Scatterplots of surface total phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

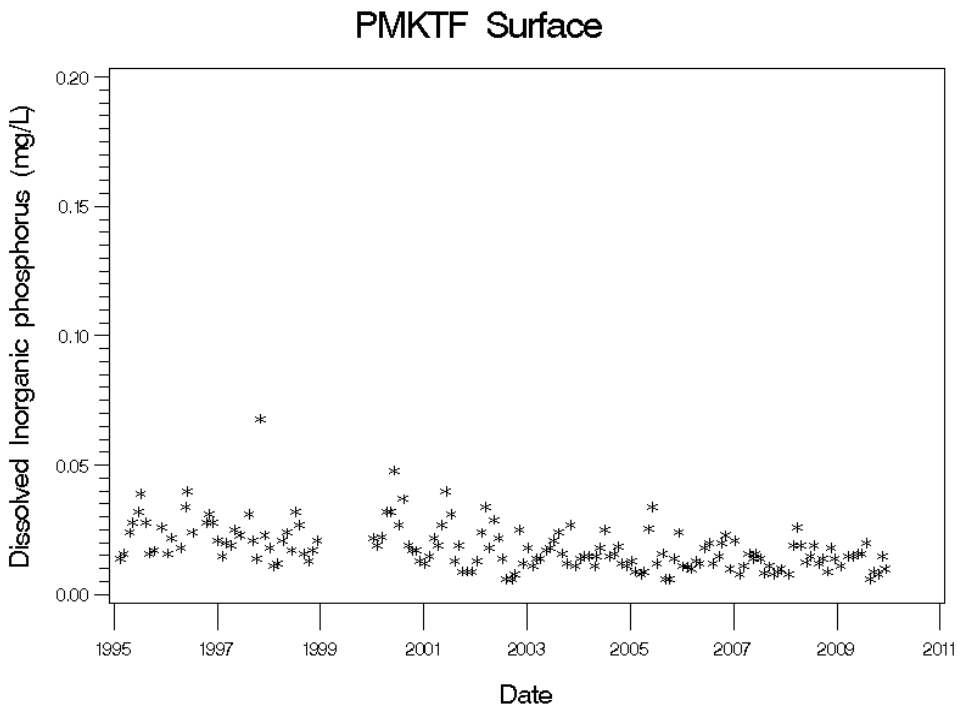


Figure 4. Scatterplots of surface dissolved inorganic phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

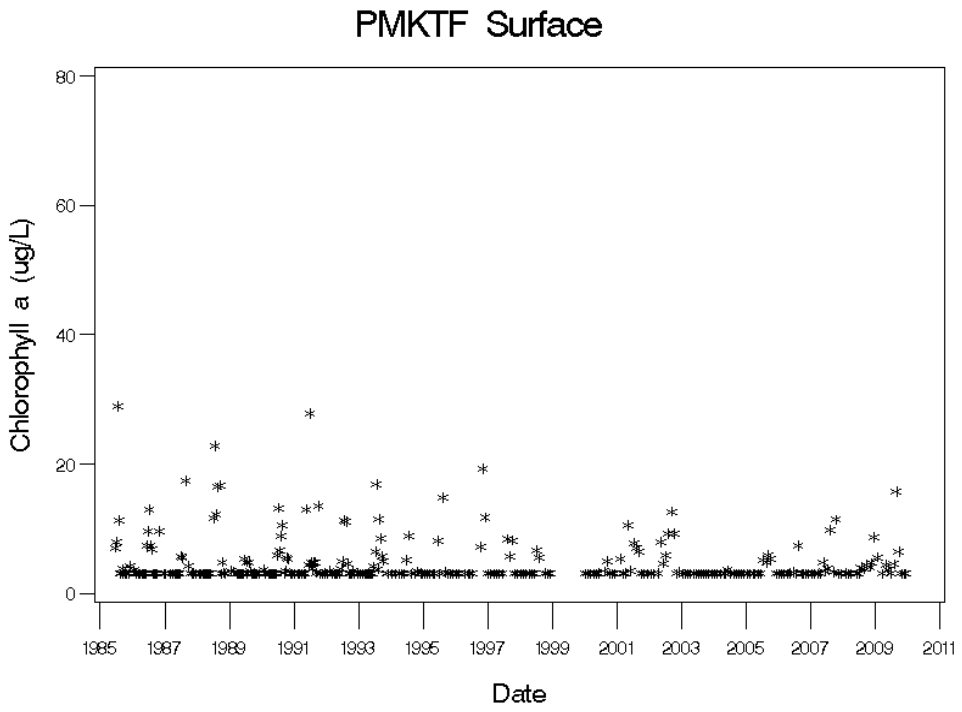


Figure 5. Scatterplot of surface chlorphyll a at segment PMKTF during the period 1985 to 2009.

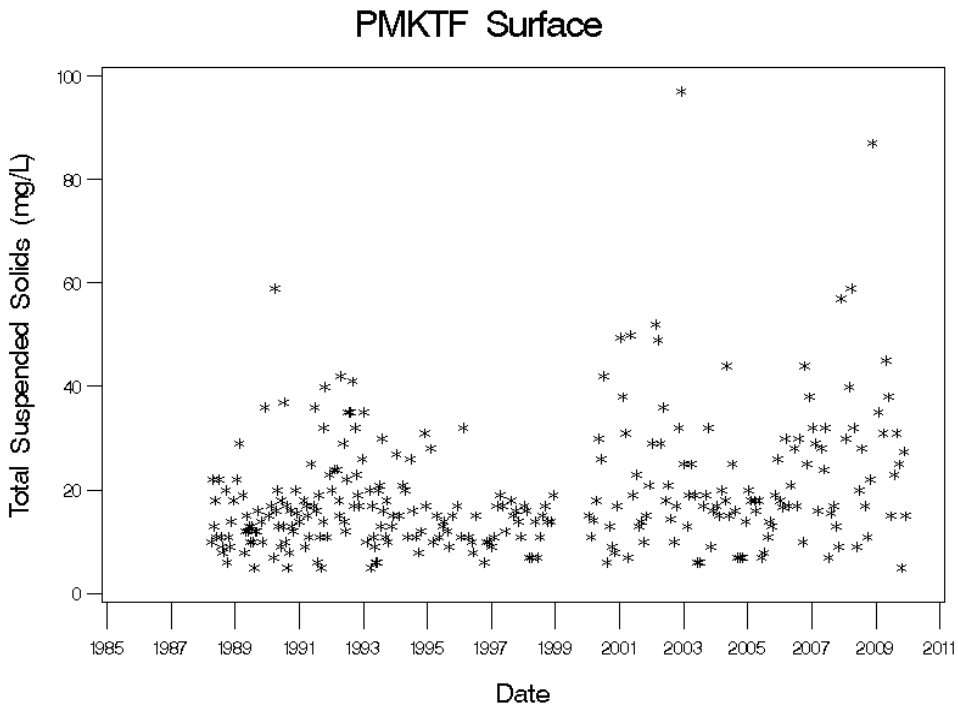


Figure 6. Scatterplot of surface total suspended solids at segment PMKTF during the period 1985 to 2009.

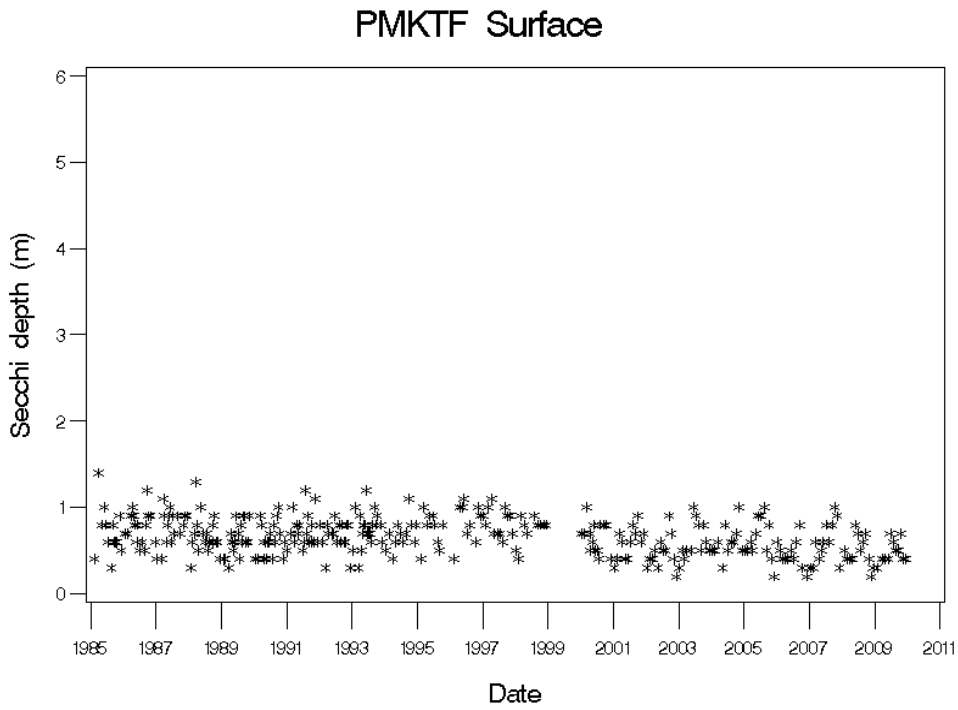


Figure 7. Scatterplot of secchi depth at segment PMKTF during the period 1985 to 2009.

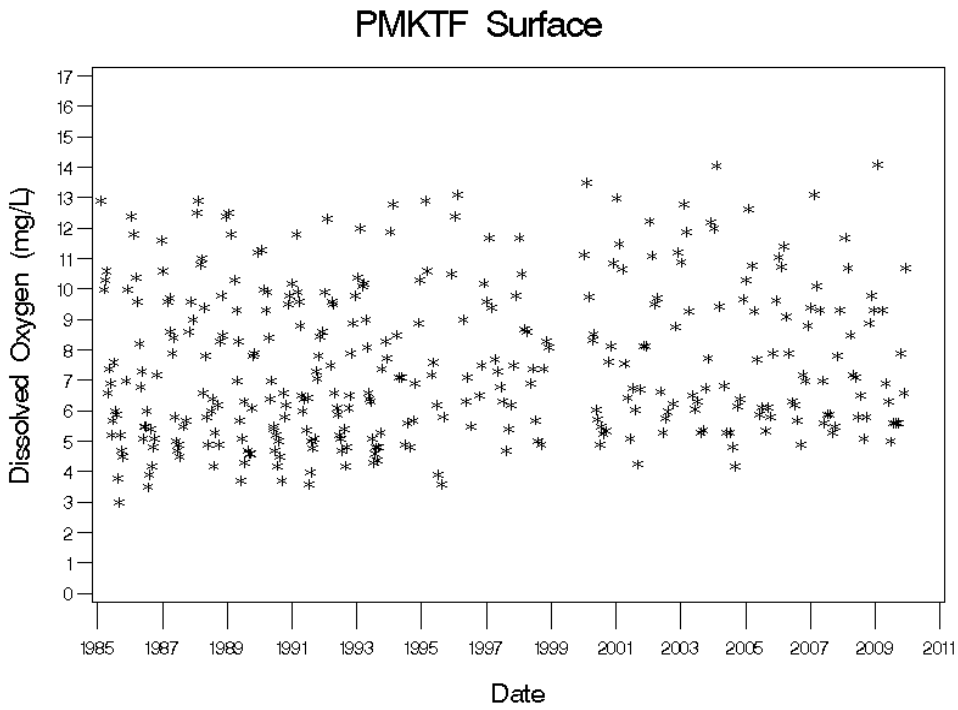


Figure 8. Scatterplot of surface dissolved oxygen at segment PMKTF during the period 1985 to 2009.

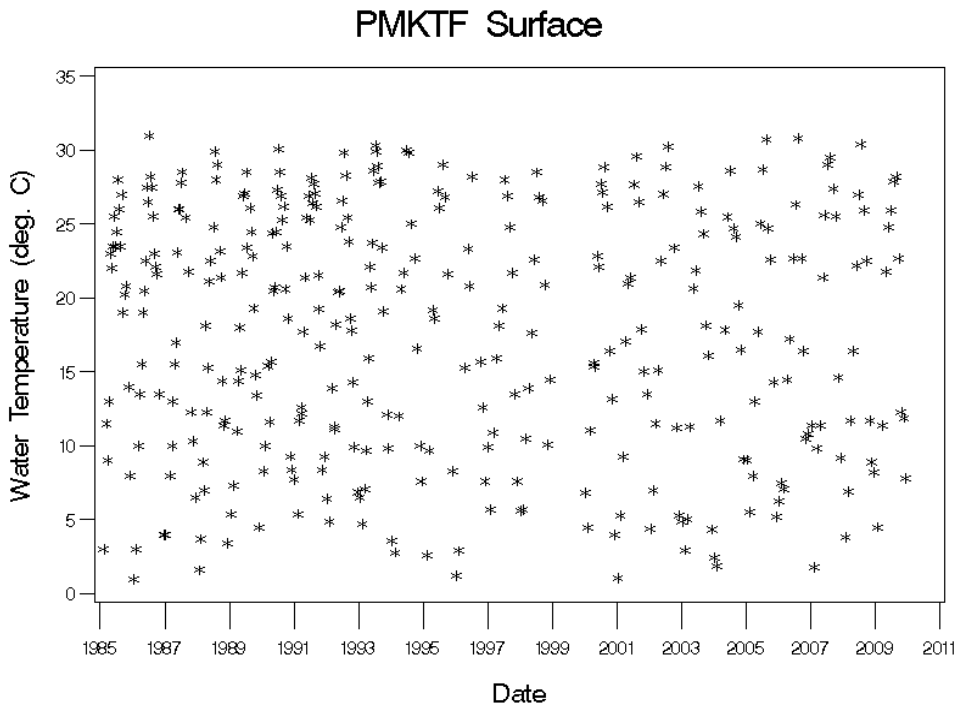


Figure 9. Scatterplot of surface water temperature at segment PMKTF during the period 1985 to 2009.

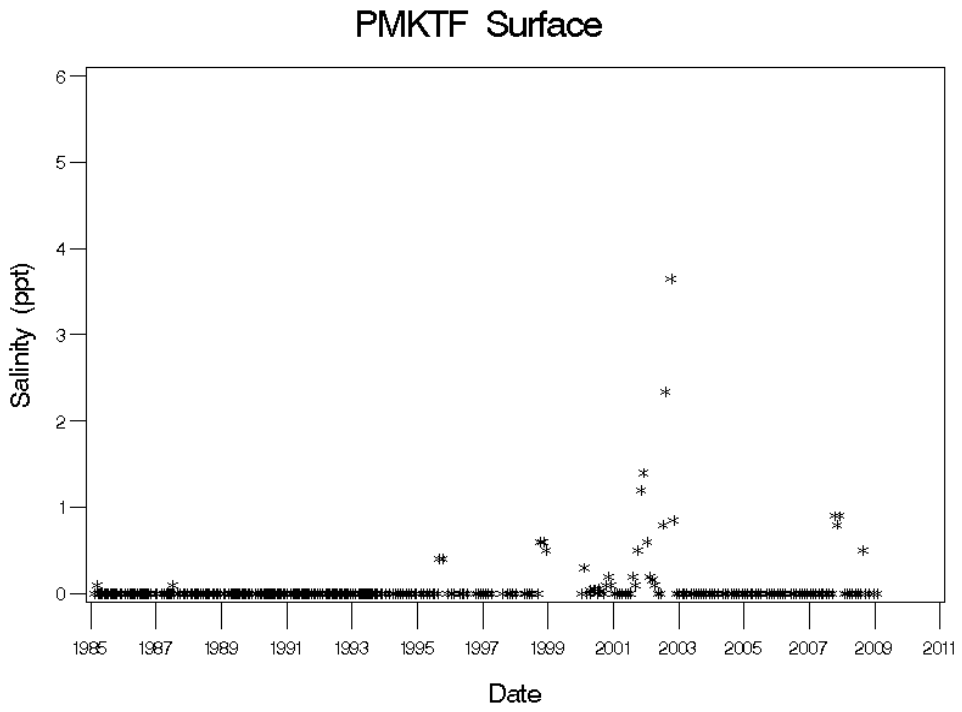


Figure 10. Scatterplot of surface salinity at segment PMKTF during the period 1985 to 2009.

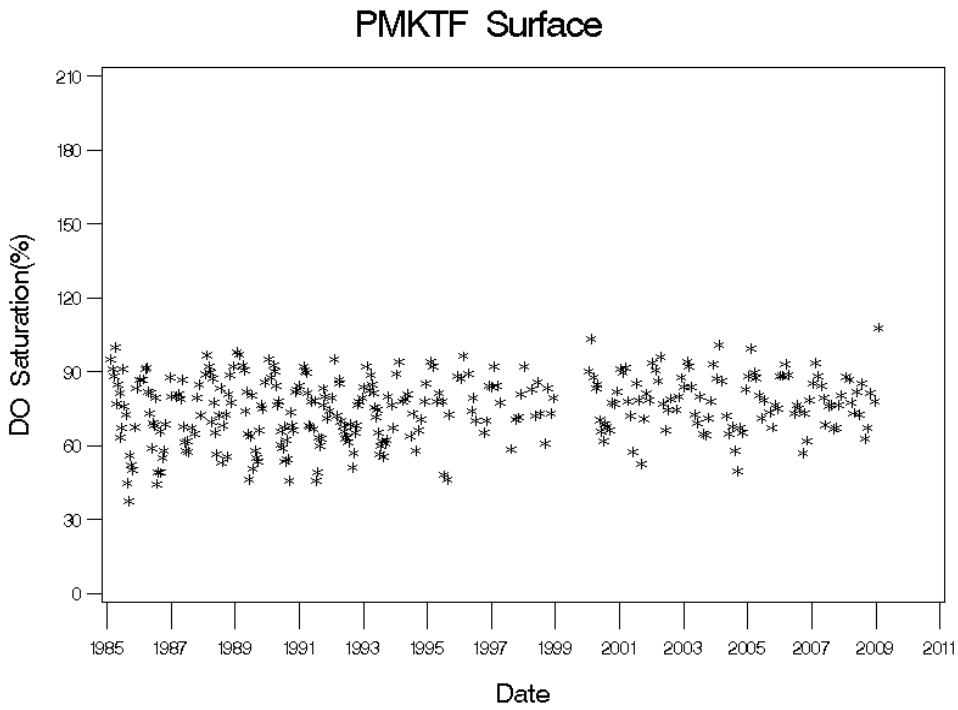
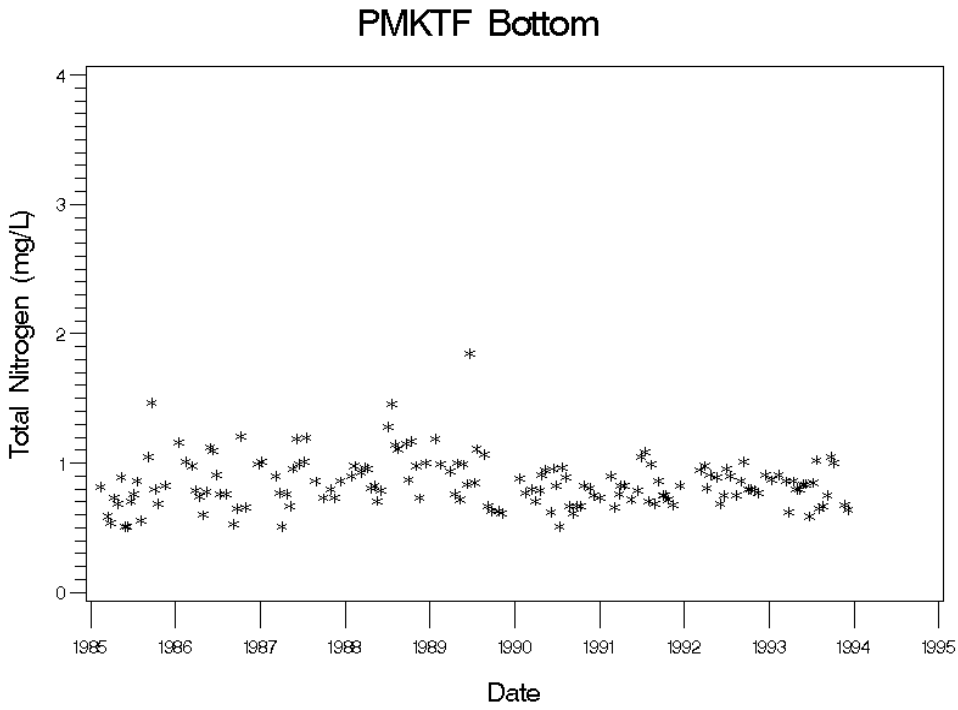


Figure 11. Scatterplot of surface DO saturation at segment PMKTF during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

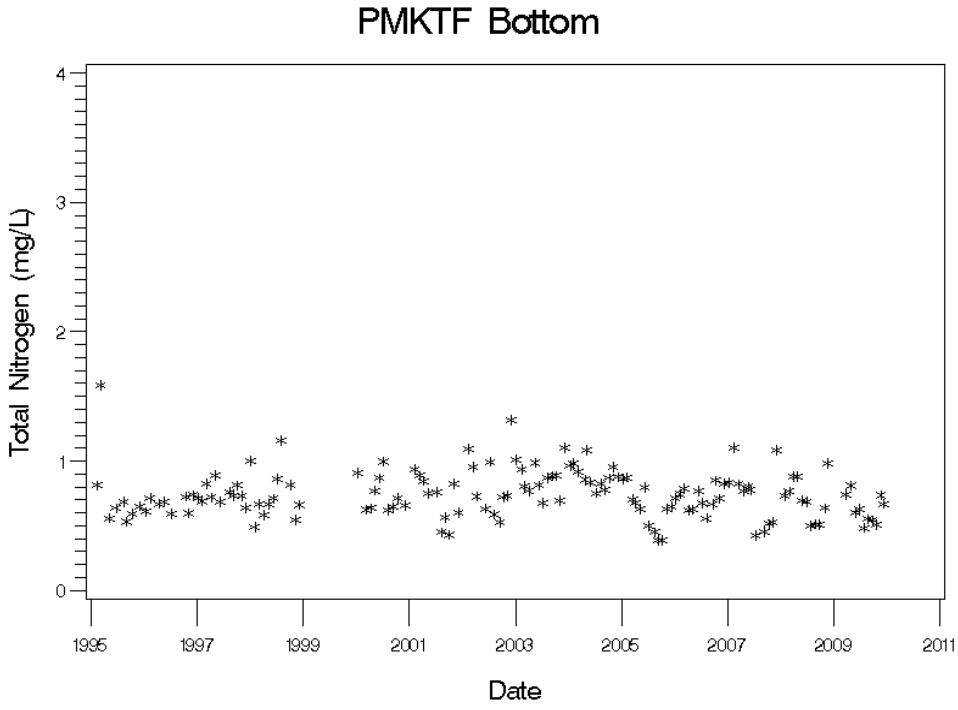
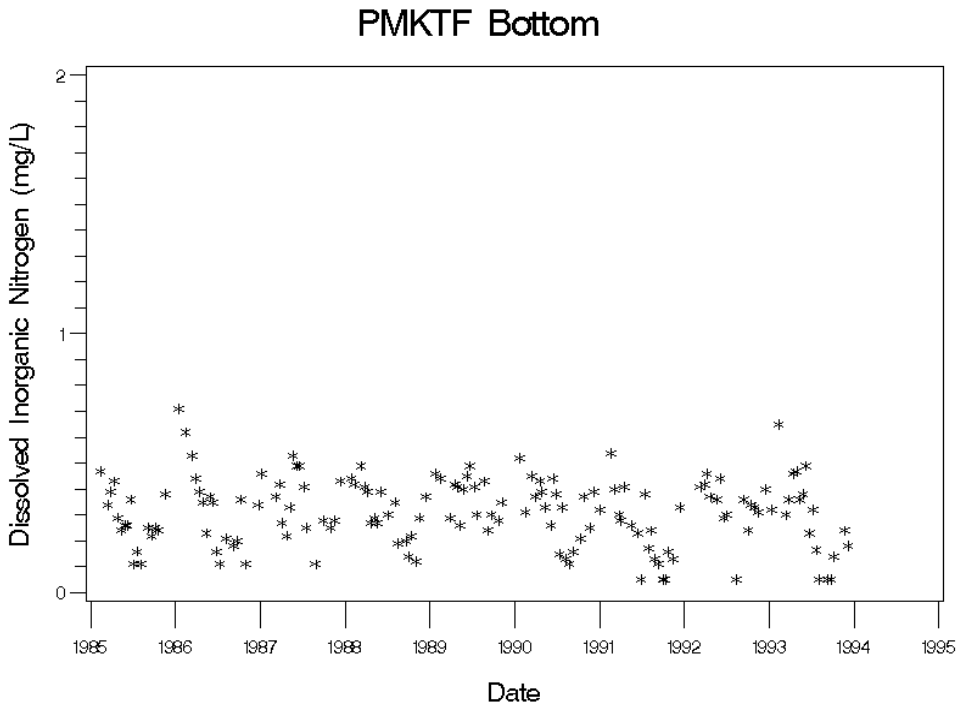


Figure 12. Scatterplots of bottom total nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

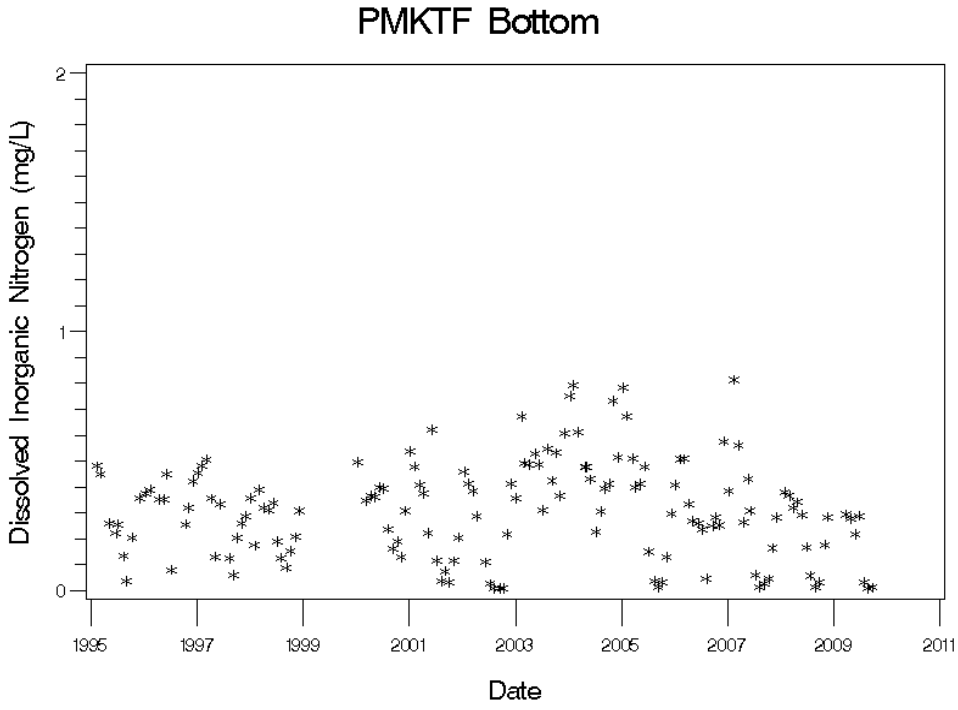
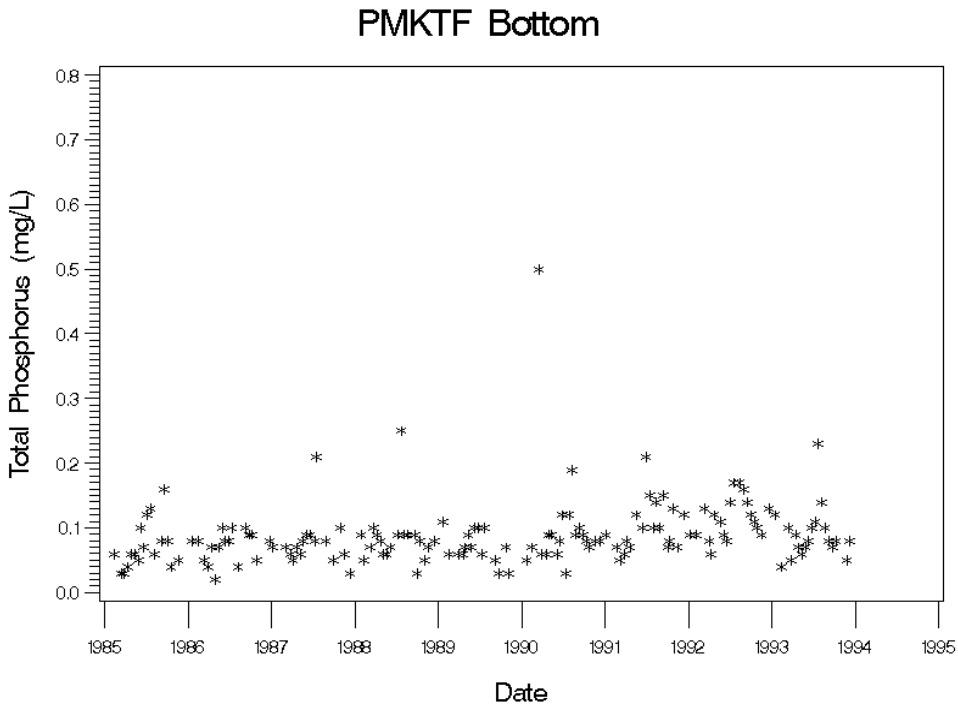


Figure 13. Scatterplots of bottom dissolved inorganic nitrogen at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

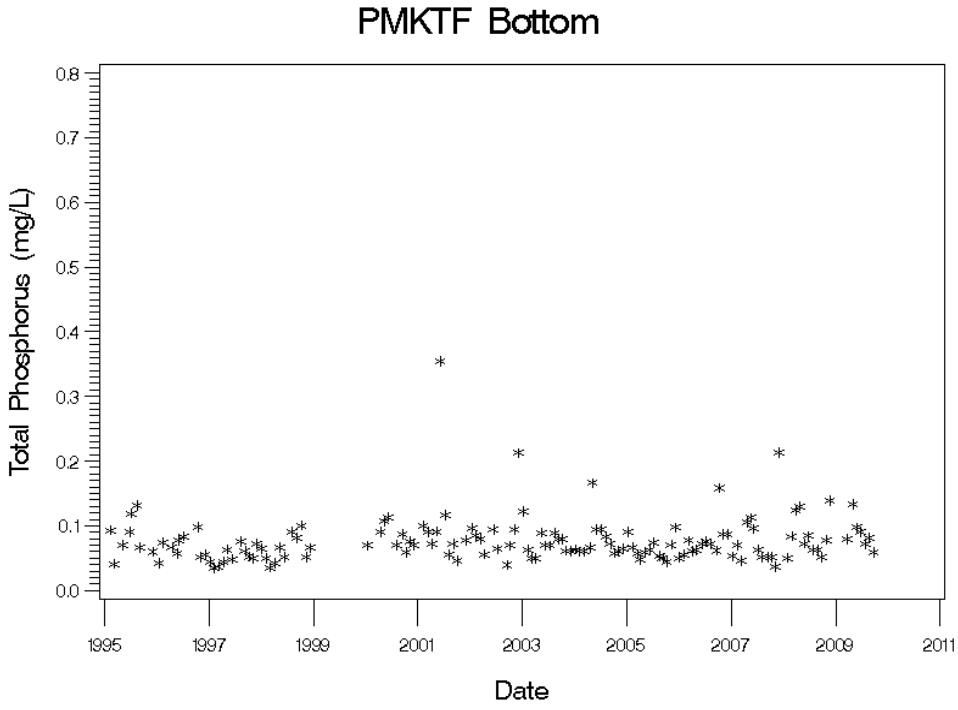
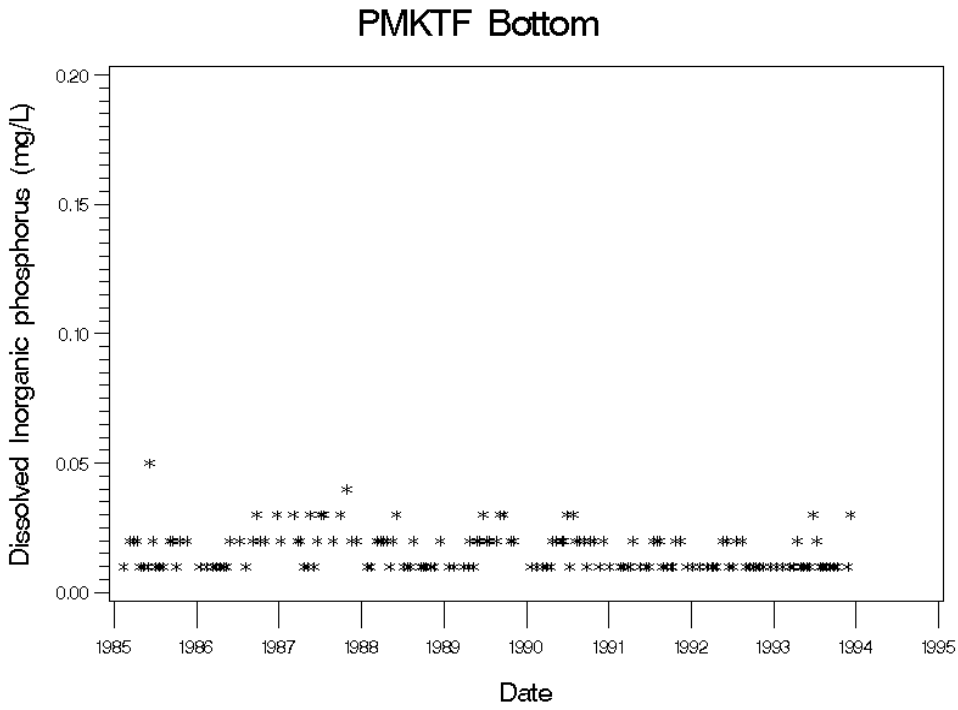


Figure 14. Scatterplots of bottom total phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

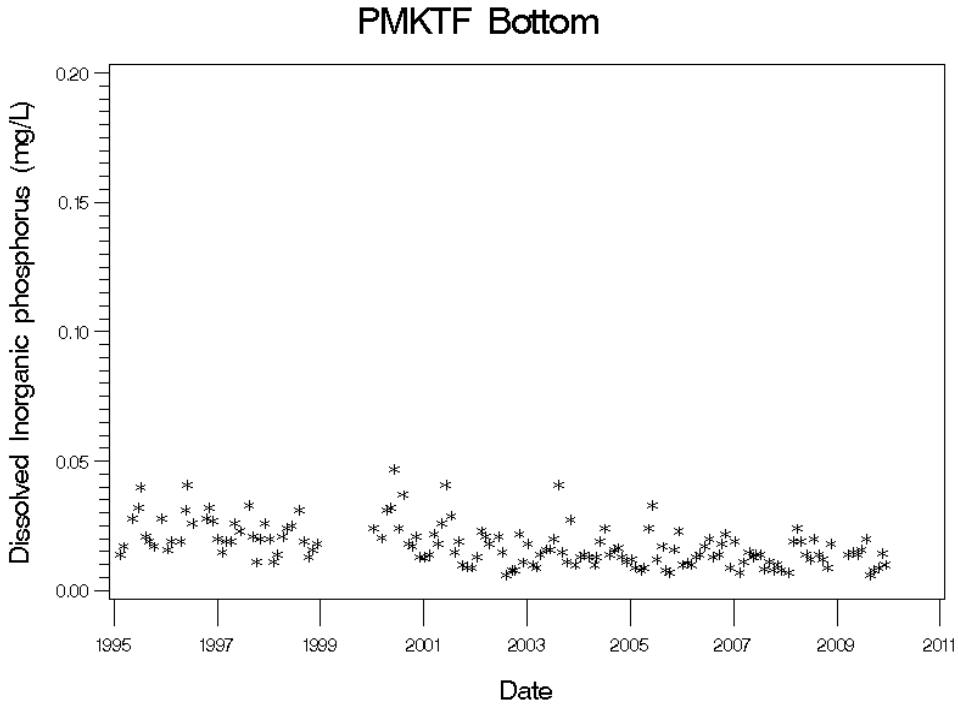


Figure 15. Scatterplots of bottom dissolved inorganic phosphorus at segment PMKTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

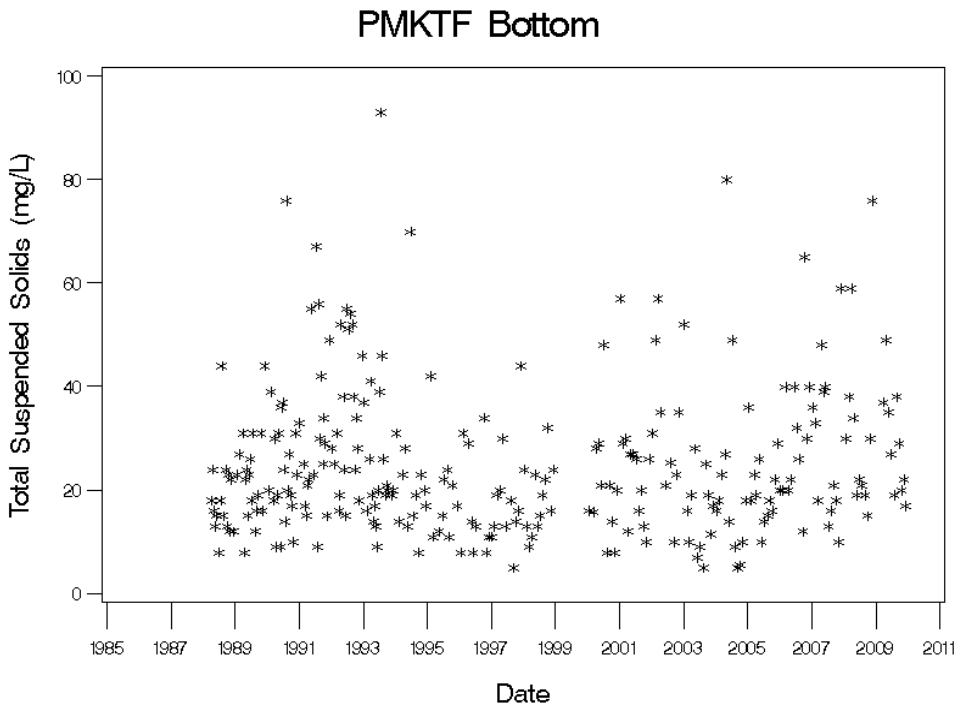


Figure 16. Scatterplot of bottom total suspended solids at segment PMKTF during the period 1985 to 2009.

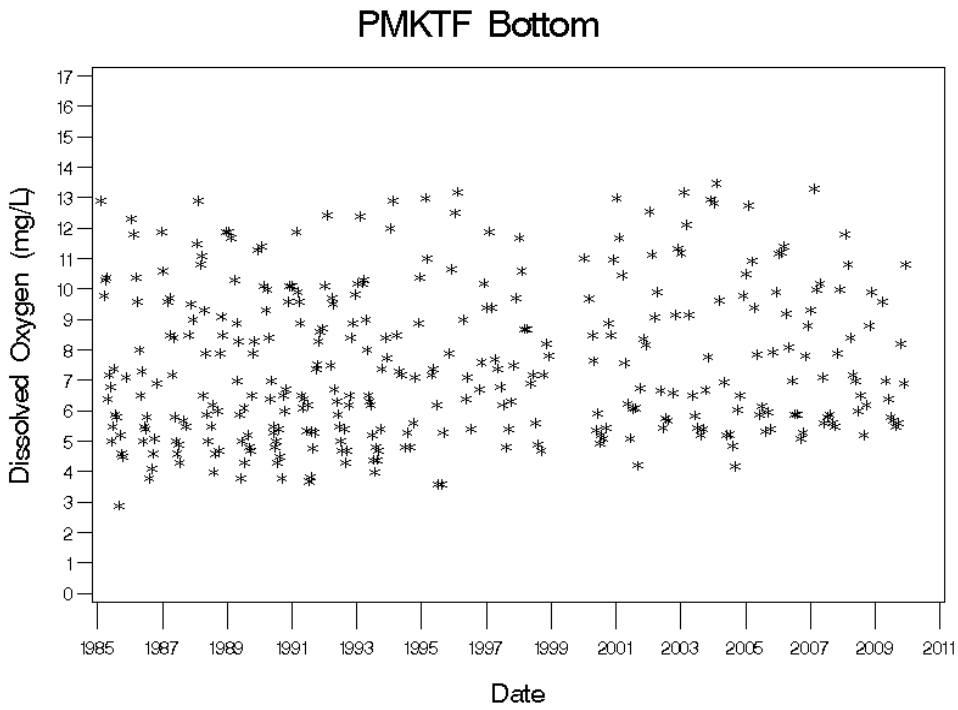


Figure 17. Scatterplot of bottom dissolved oxygen at segment PMKTF during the period 1985 to 2009.

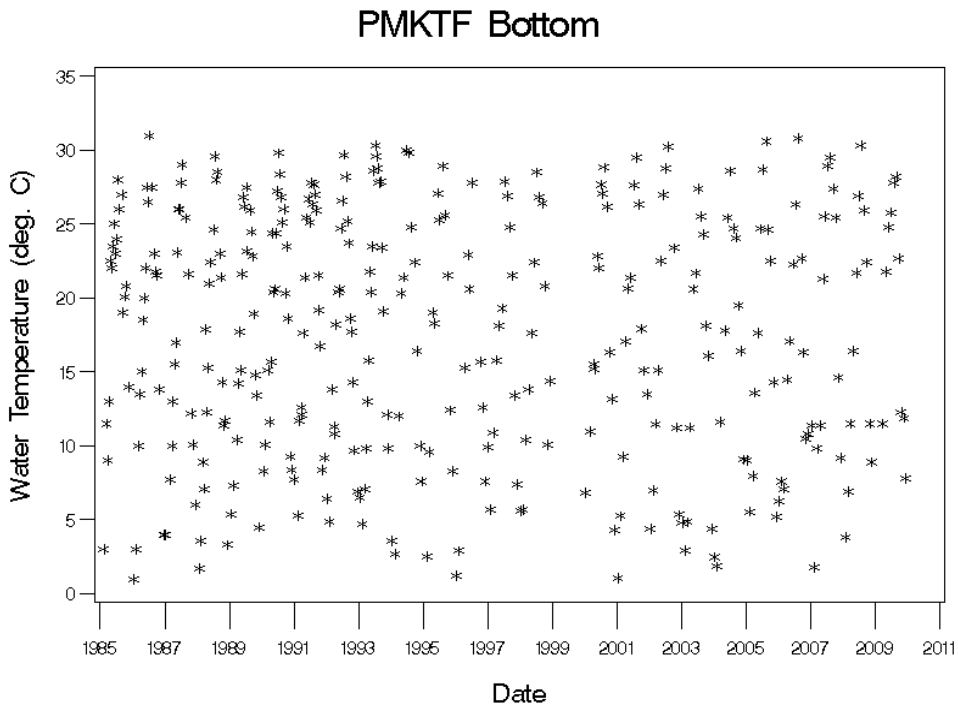


Figure 18. Scatterplot of bottom water temperature at segment PMKTF during the period 1985 to 2009.

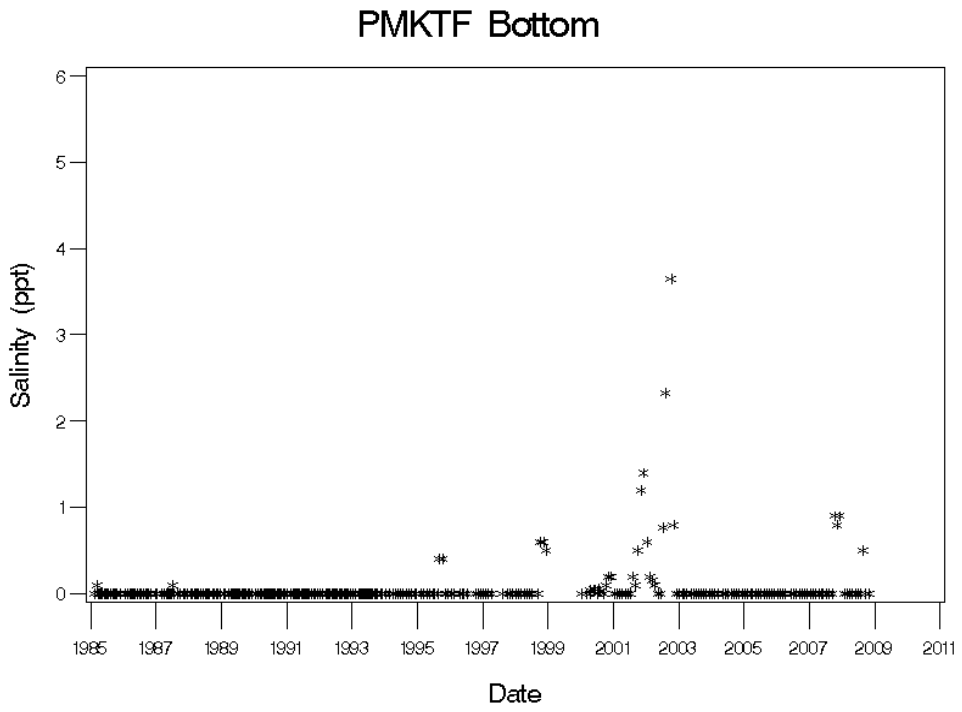


Figure 19. Scatterplot of bottom salinity at segment PMKTF during the period 1985 to 2009.

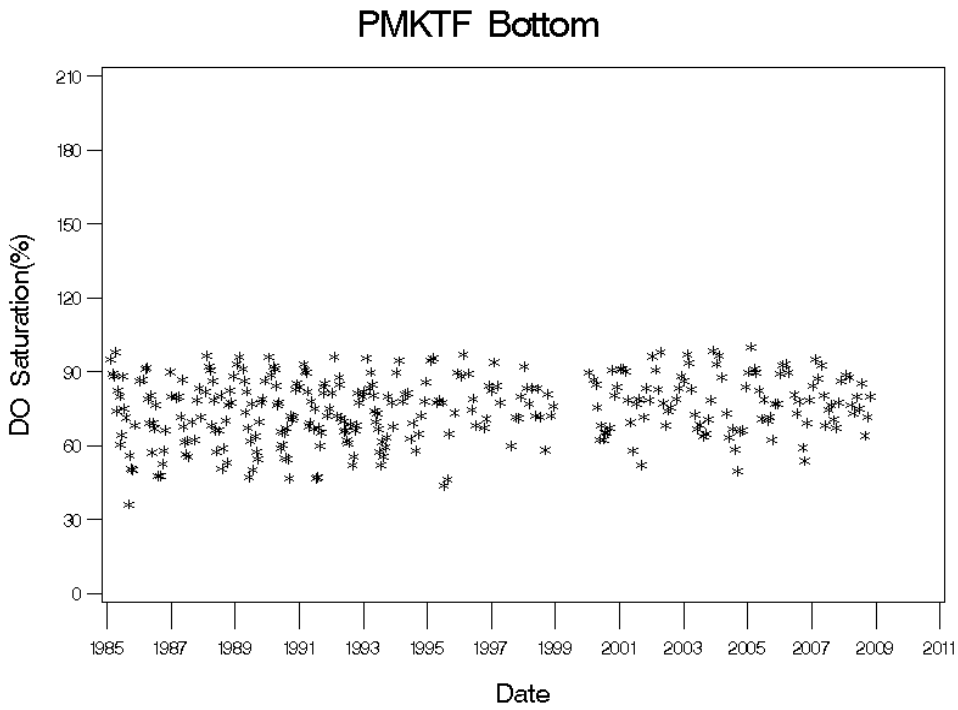
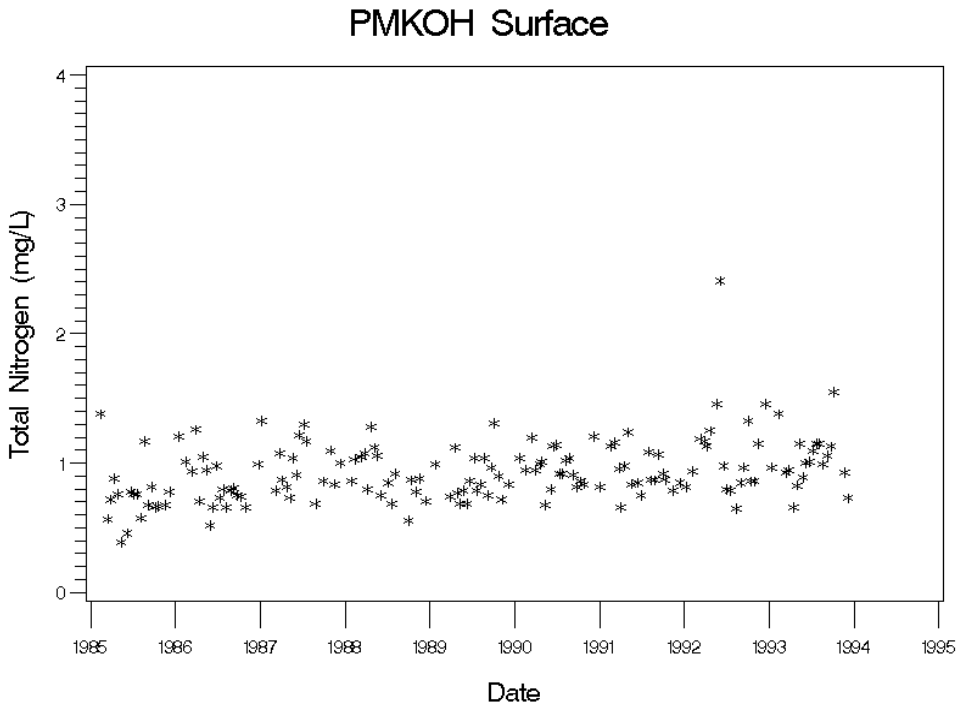


Figure 20. Scatterplot of bottom DO saturation at segment PMKTF during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

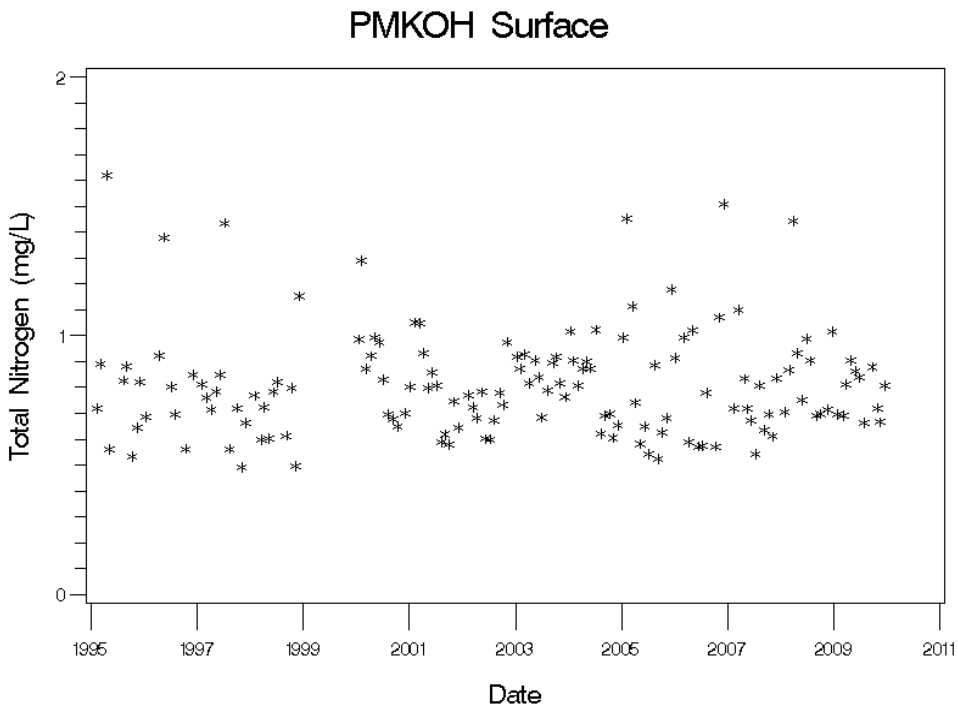
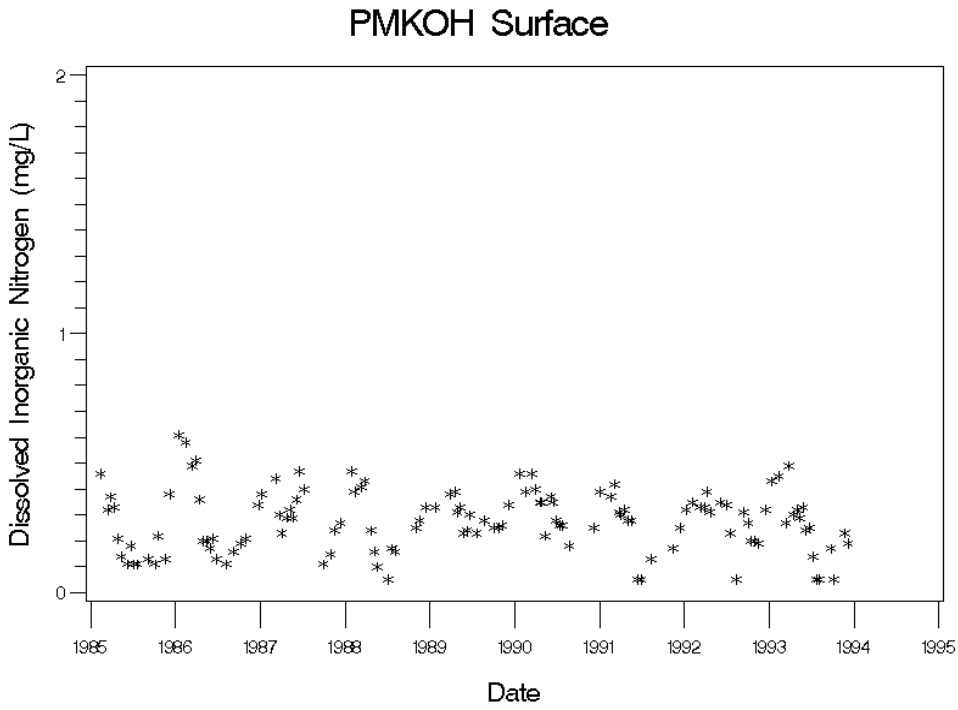


Figure 21. Scatterplots of surface total nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

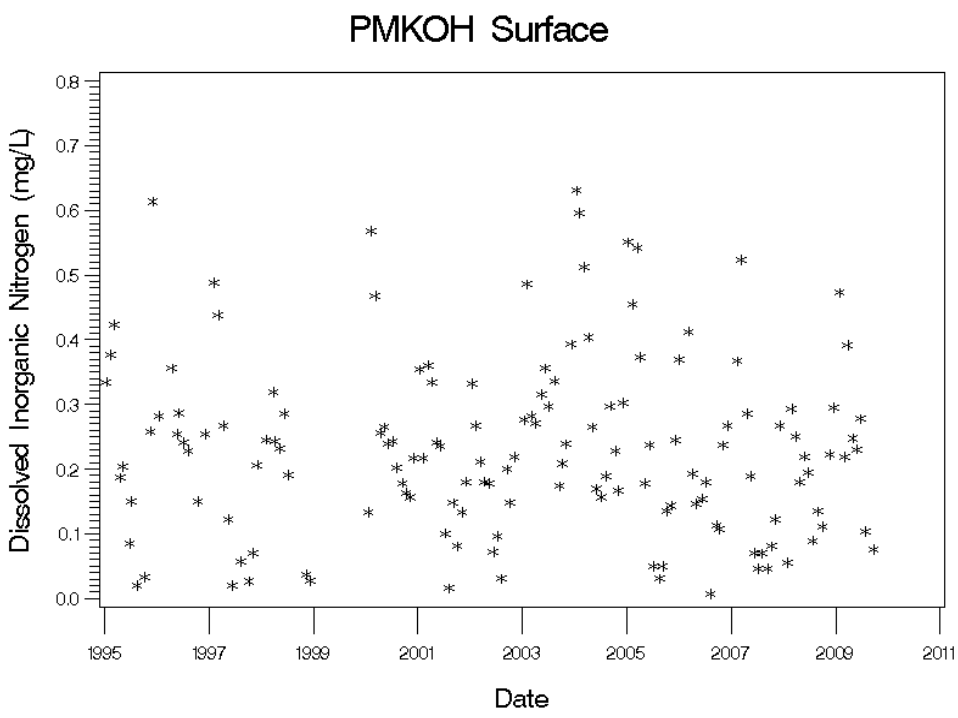
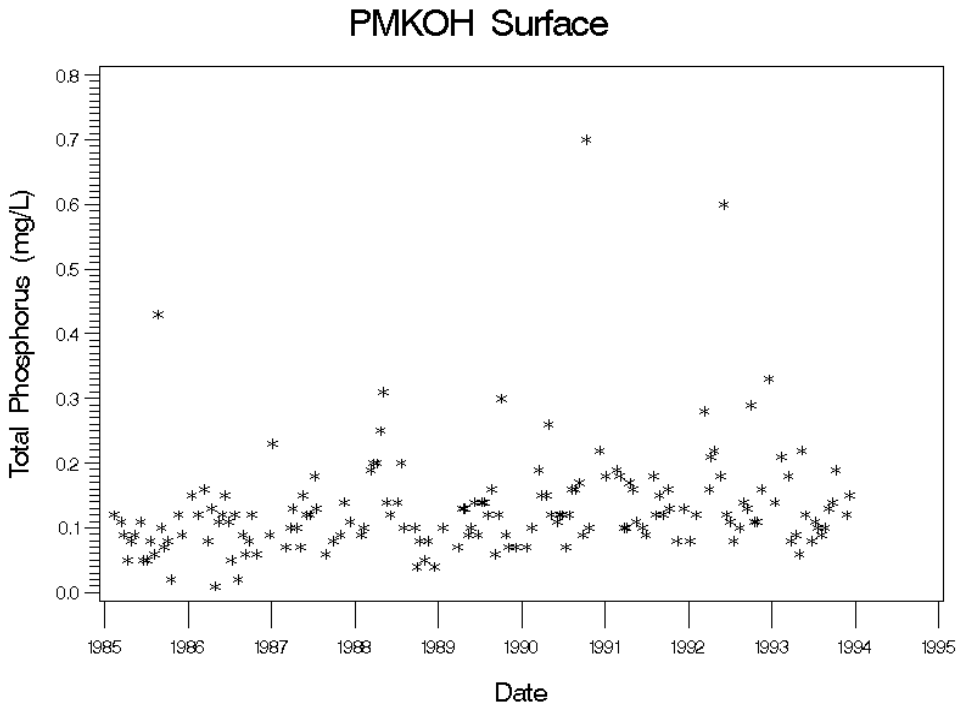


Figure 22. Scatterplots of surface dissolved inorganic nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

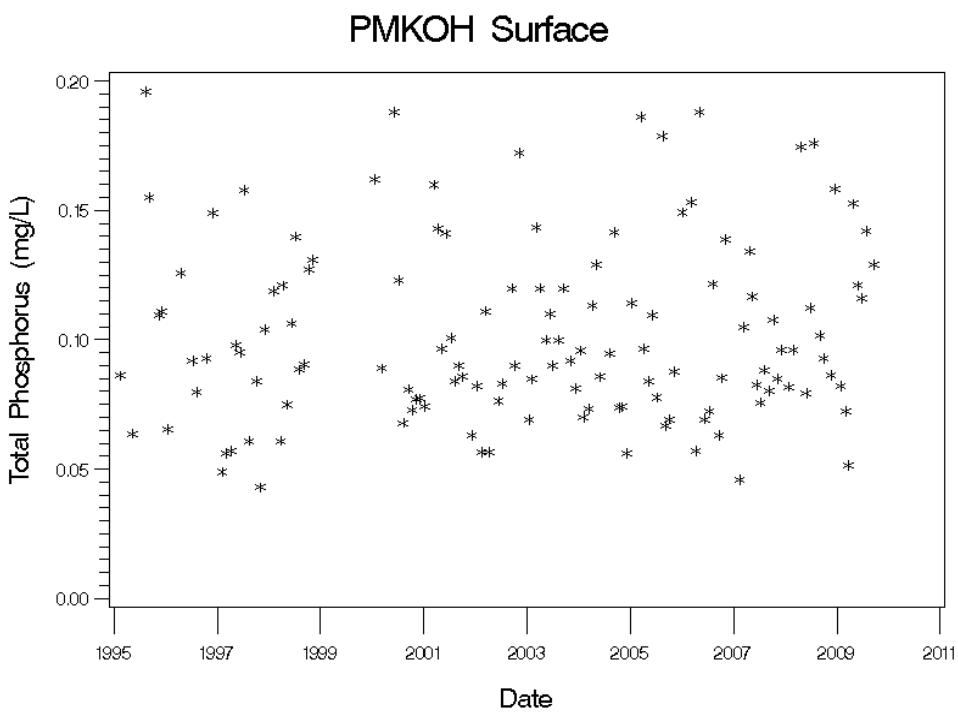
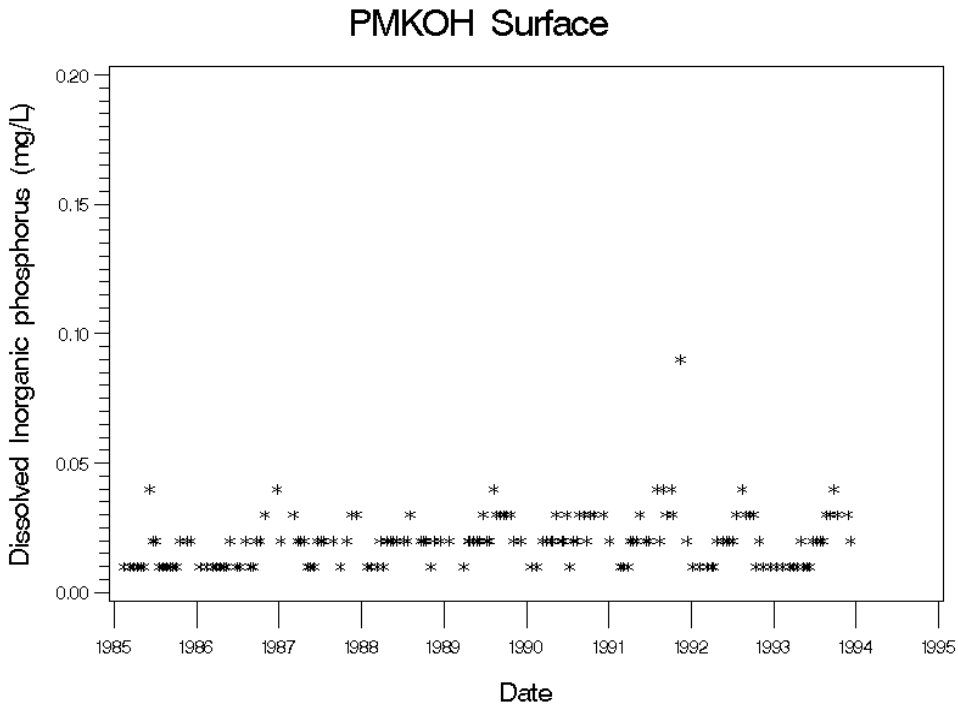


Figure 23. Scatterplots of surface total phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

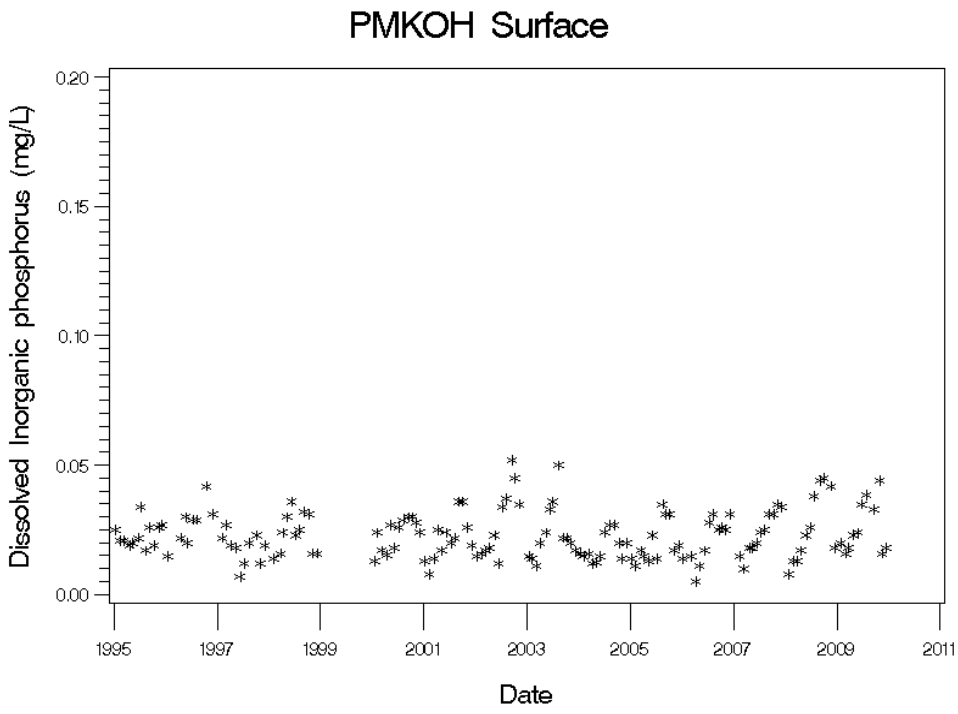


Figure 24. Scatterplots of surface dissolved inorganic phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

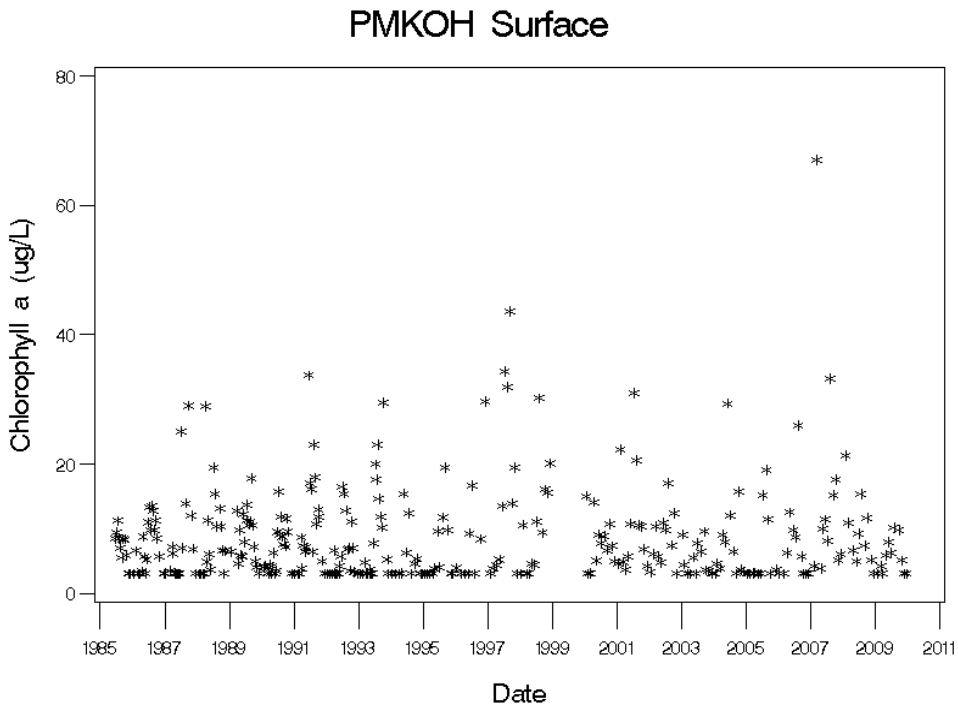


Figure 25. Scatterplot of surface chlorphyll a at segment PMKOH during the period 1985 to 2009.

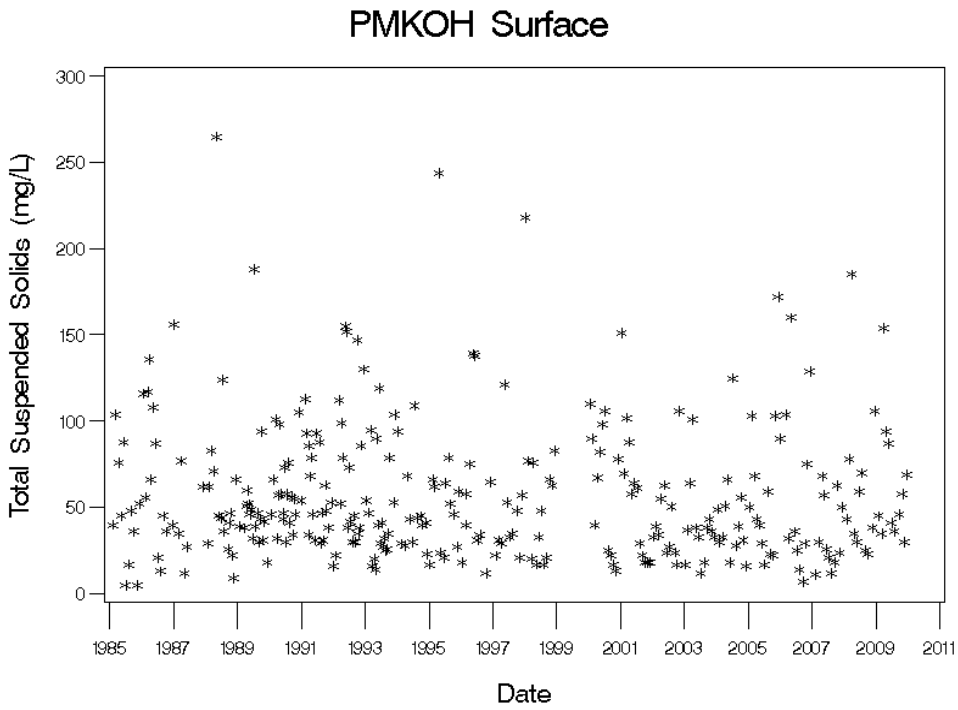


Figure 26. Scatterplot of surface total suspended solids at segment PMKOH during the period 1985 to 2009.

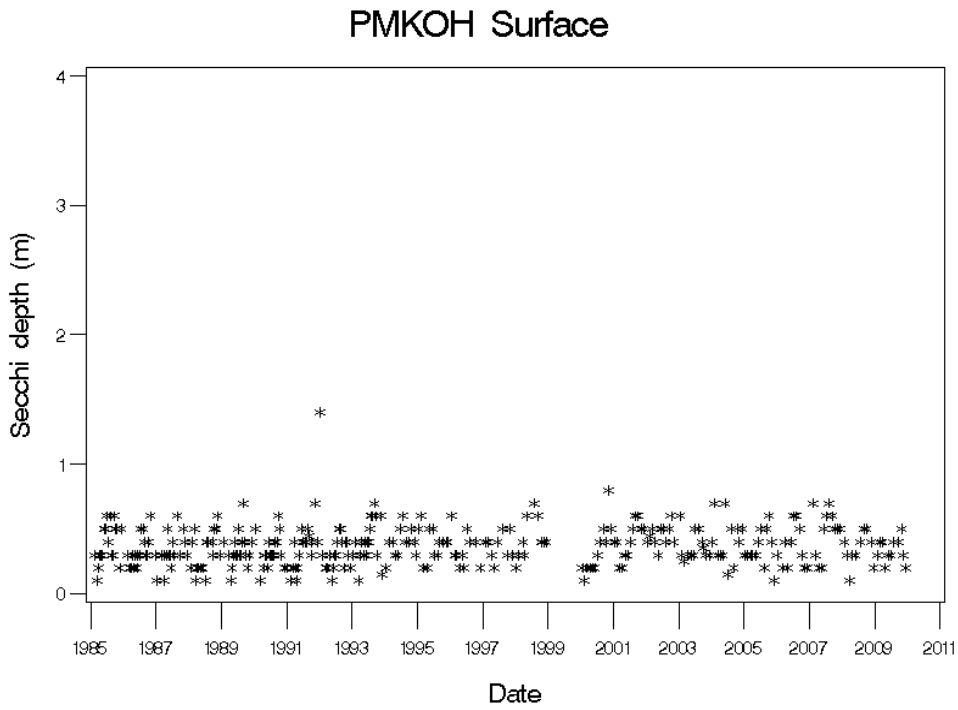


Figure 27. Scatterplot of secchi depth at segment PMKOH during the period 1985 to 2009.

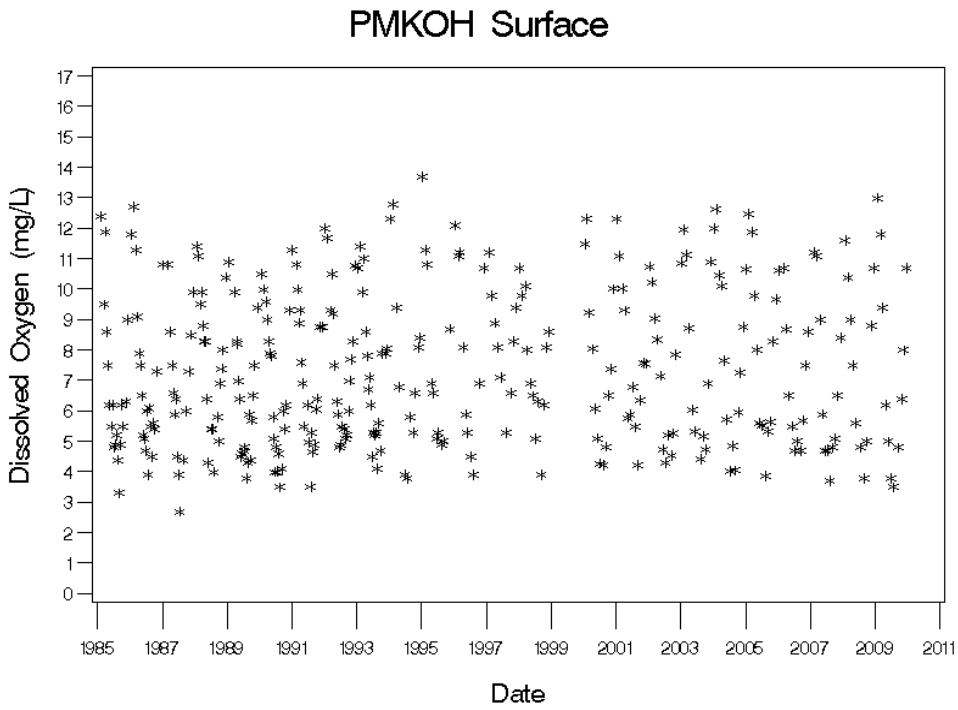


Figure 28. Scatterplot of surface dissolved oxygen at segment PMKOH during the period 1985 to 2009.

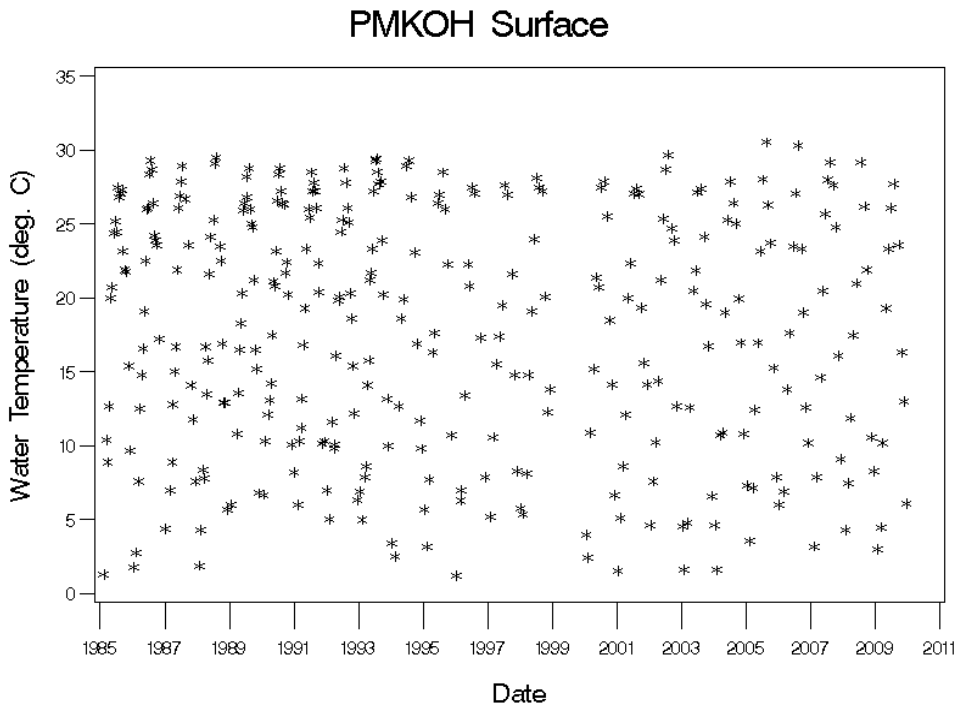


Figure 29. Scatterplot of surface water temperature at segment PMKOH during the period 1985 to 2009.

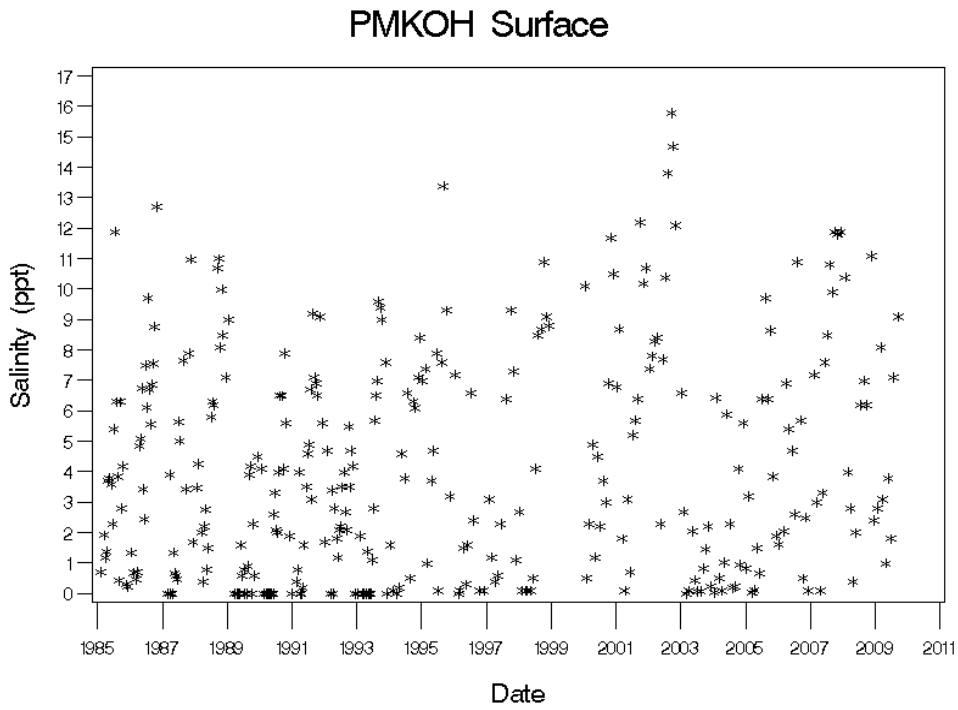


Figure 30. Scatterplot of surface salinity at segment PMKOH during the period 1985 to 2009.

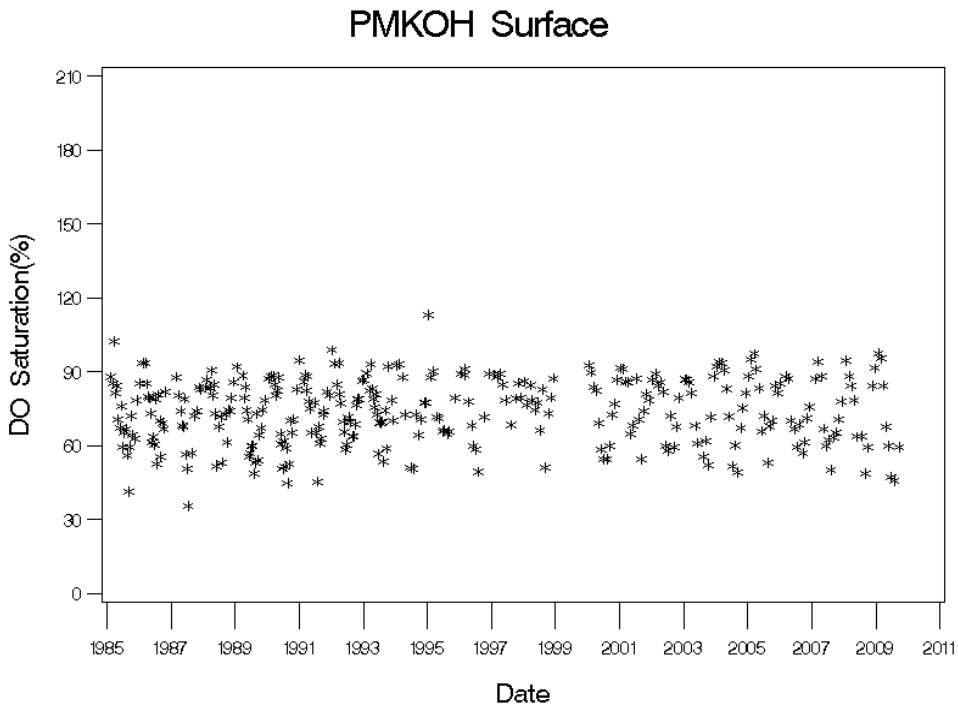
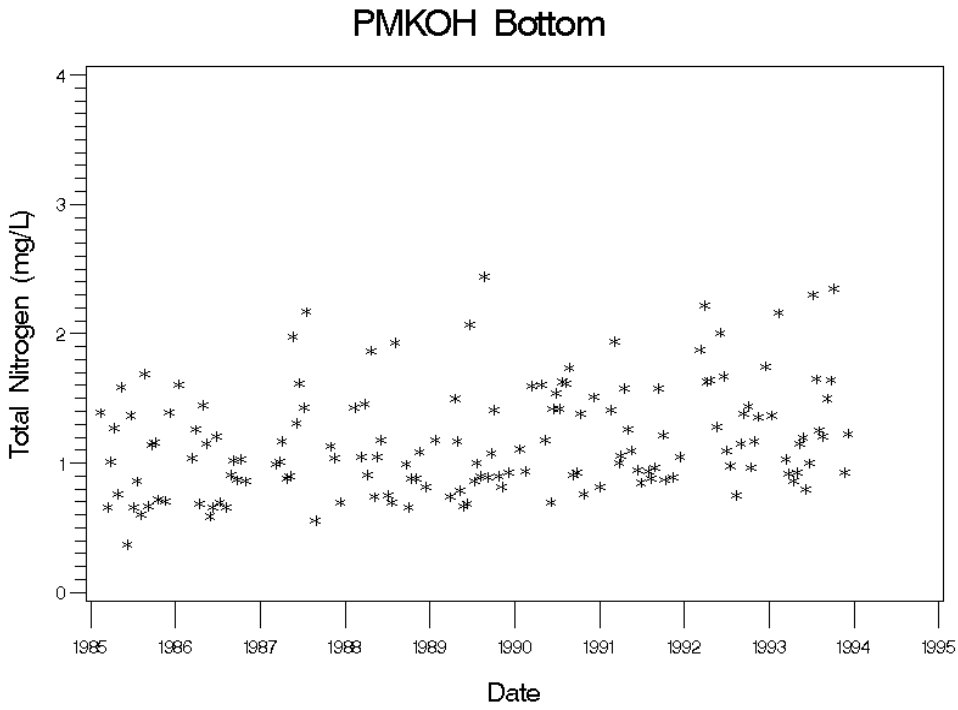


Figure 31. Scatterplot of surface DO saturation at segment PMKOH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

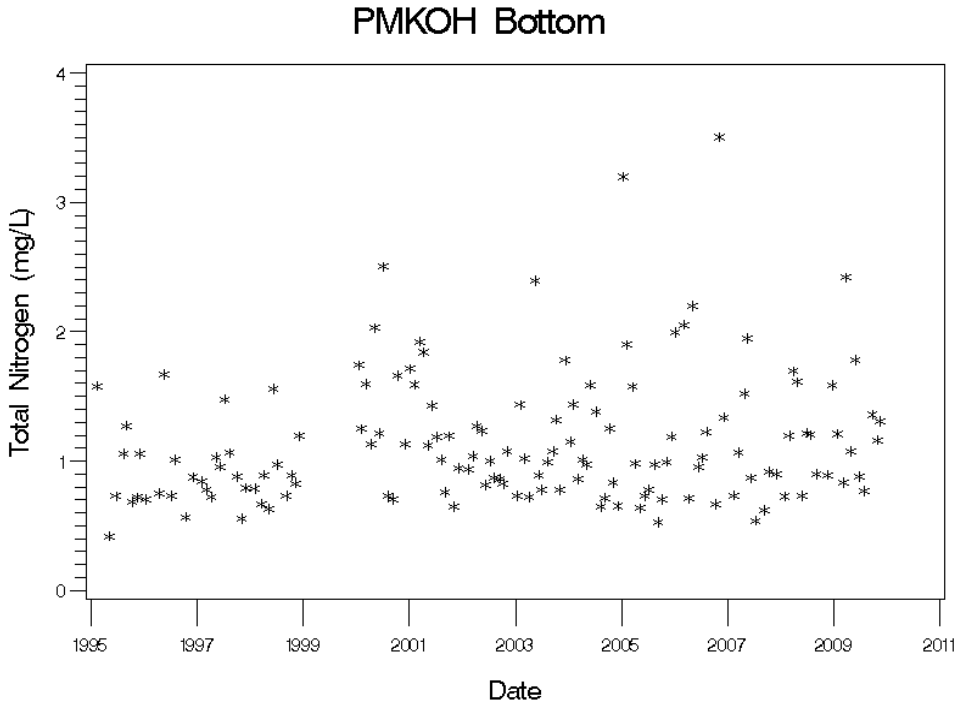
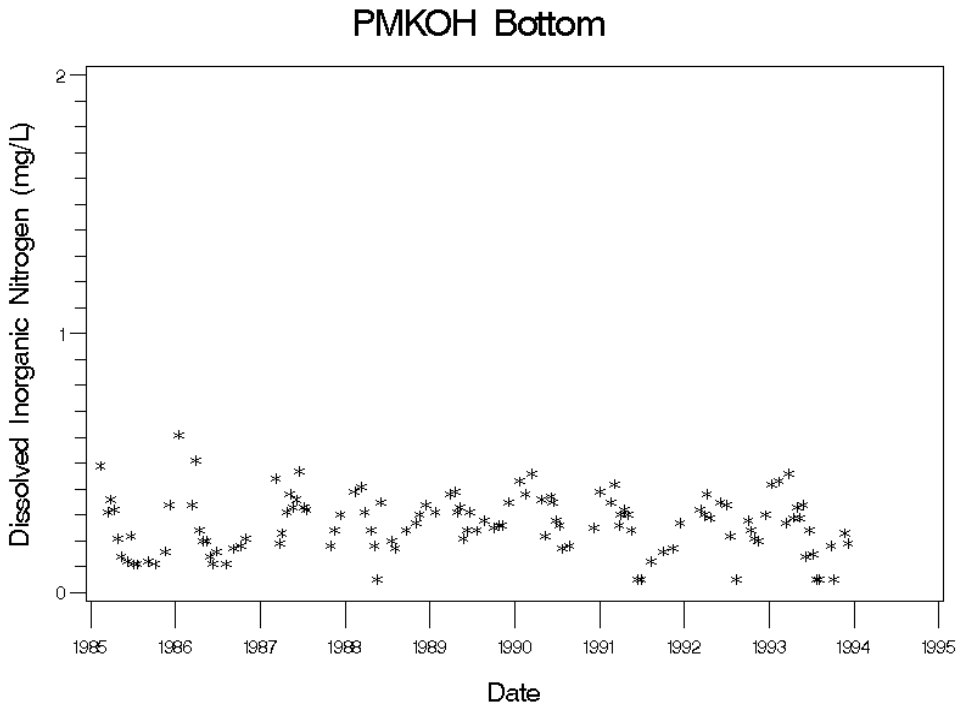


Figure 32. Scatterplots of bottom total nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

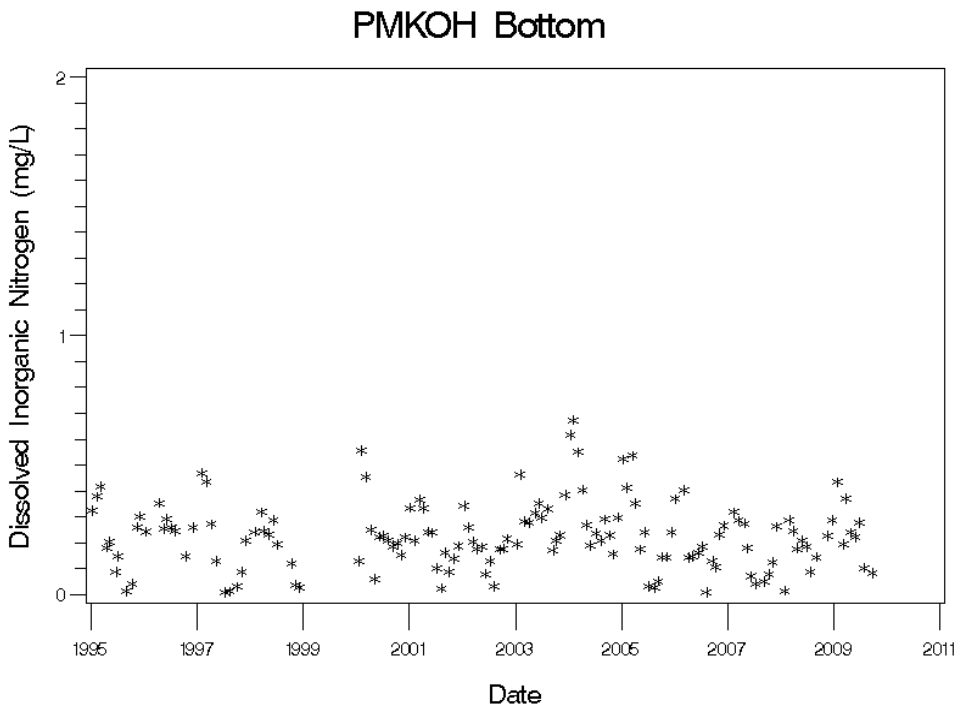
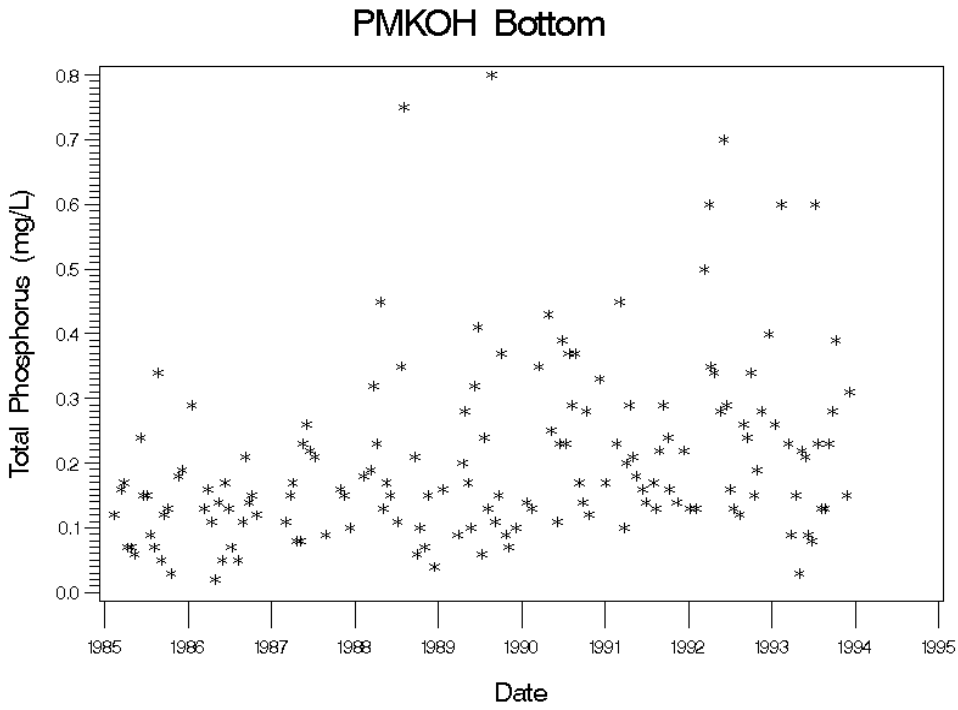


Figure 33. Scatterplots of bottom dissolved inorganic nitrogen at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

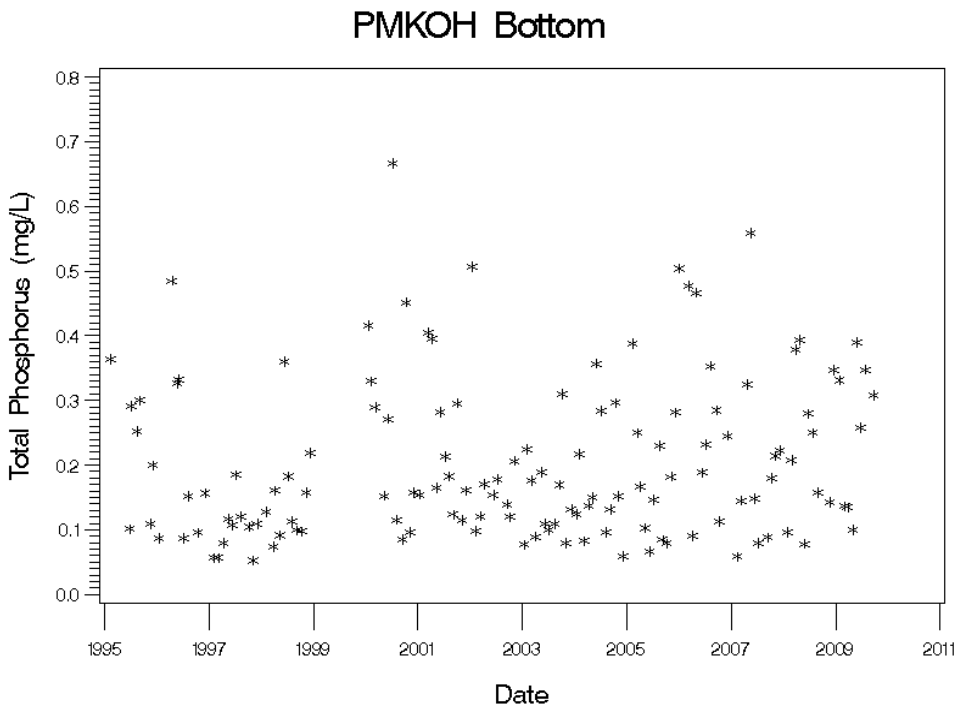
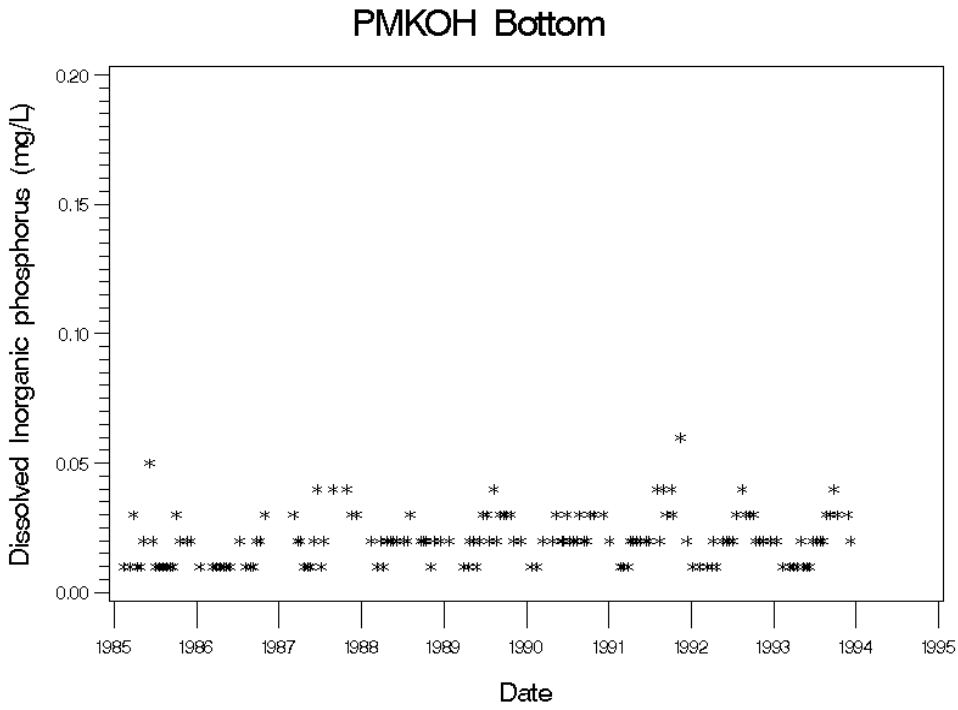


Figure 34. Scatterplots of bottom total phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

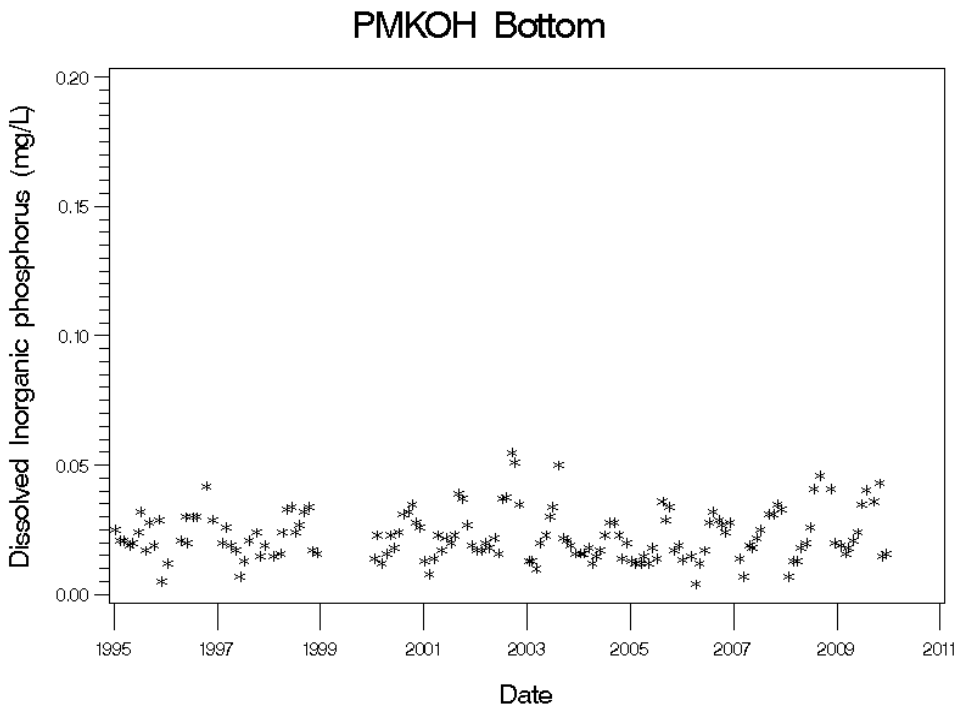


Figure 35. Scatterplots of bottom dissolved inorganic phosphorus at segment PMKOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

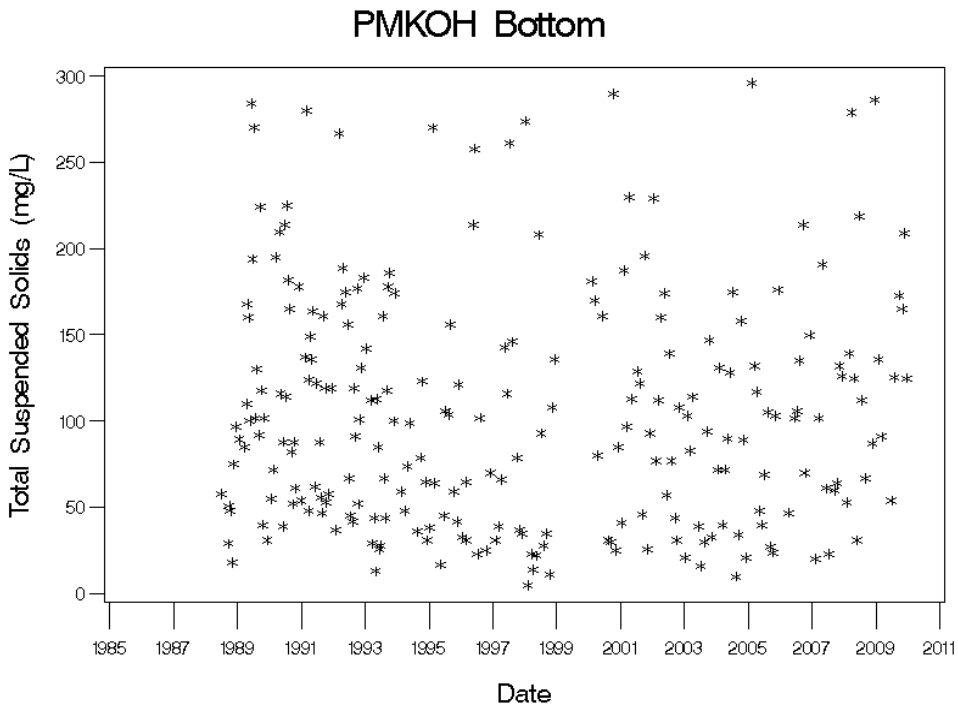


Figure 36. Scatterplot of bottom total suspended solids at segment PMKOH during the period 1985 to 2009.

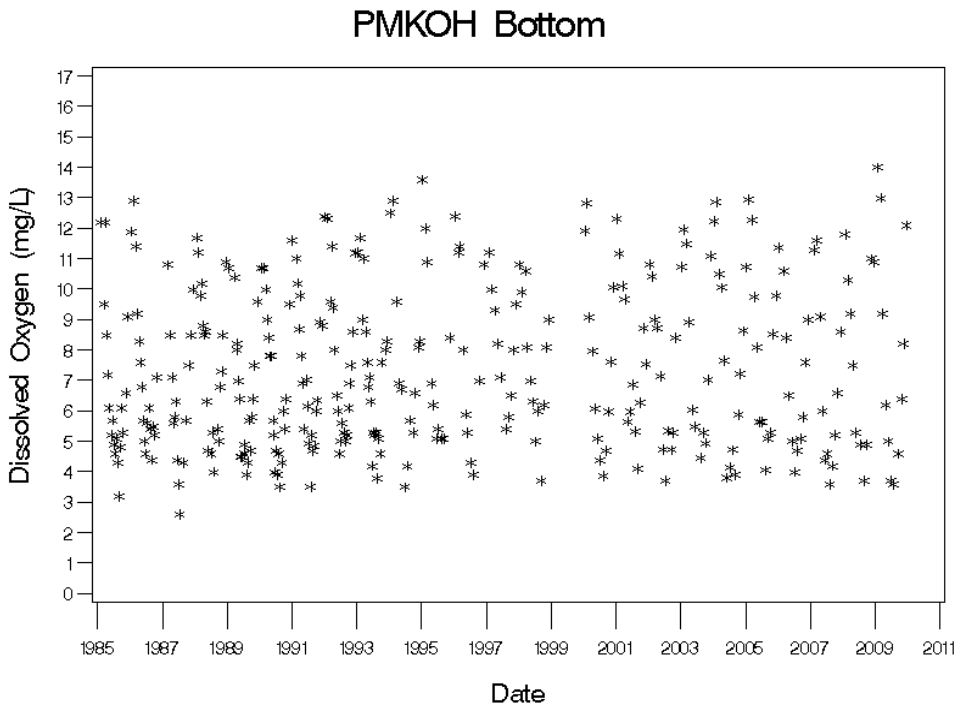


Figure 37. Scatterplot of bottom dissolved oxygen at segment PMKOH during the period 1985 to 2009.

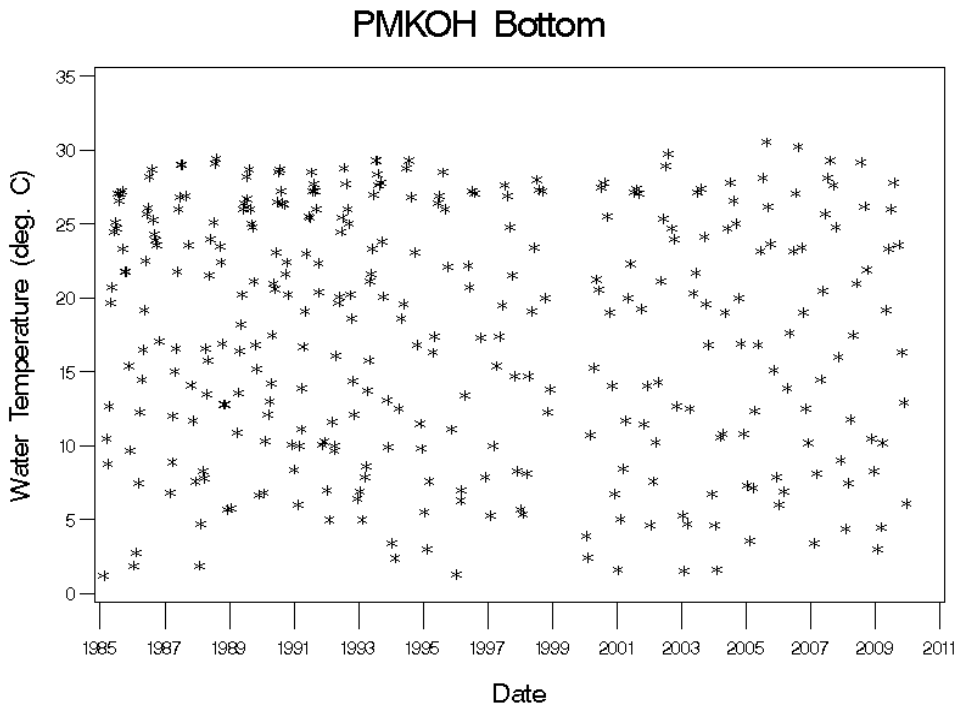


Figure 38. Scatterplot of bottom water temperature at segment PMKOH during the period 1985 to 2009.

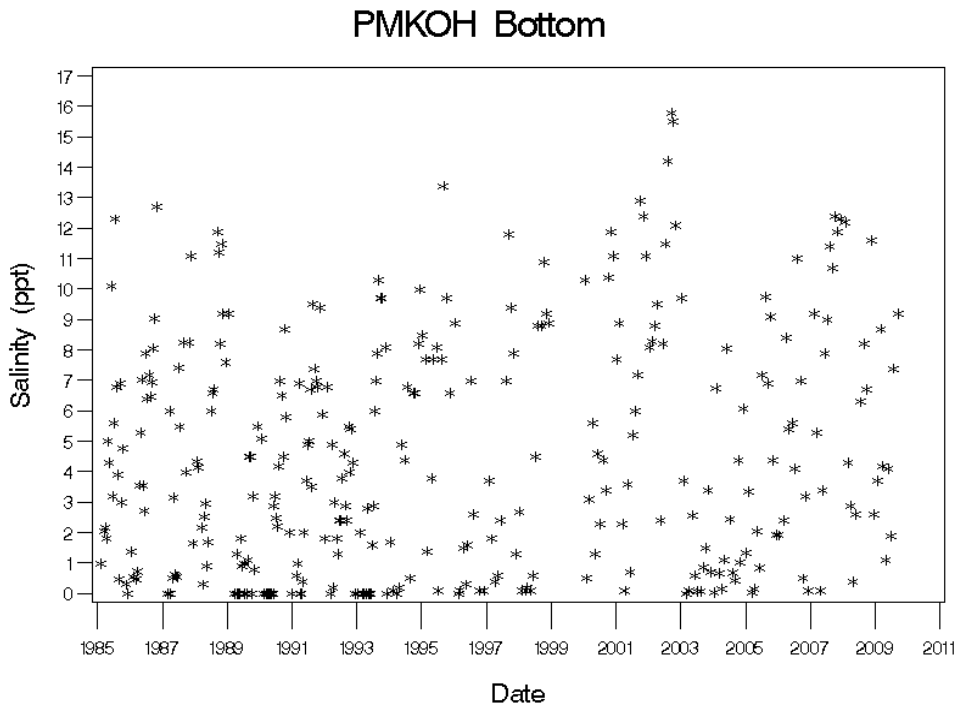


Figure 39. Scatterplot of bottom salinity at segment PMKOH during the period 1985 to 2009.

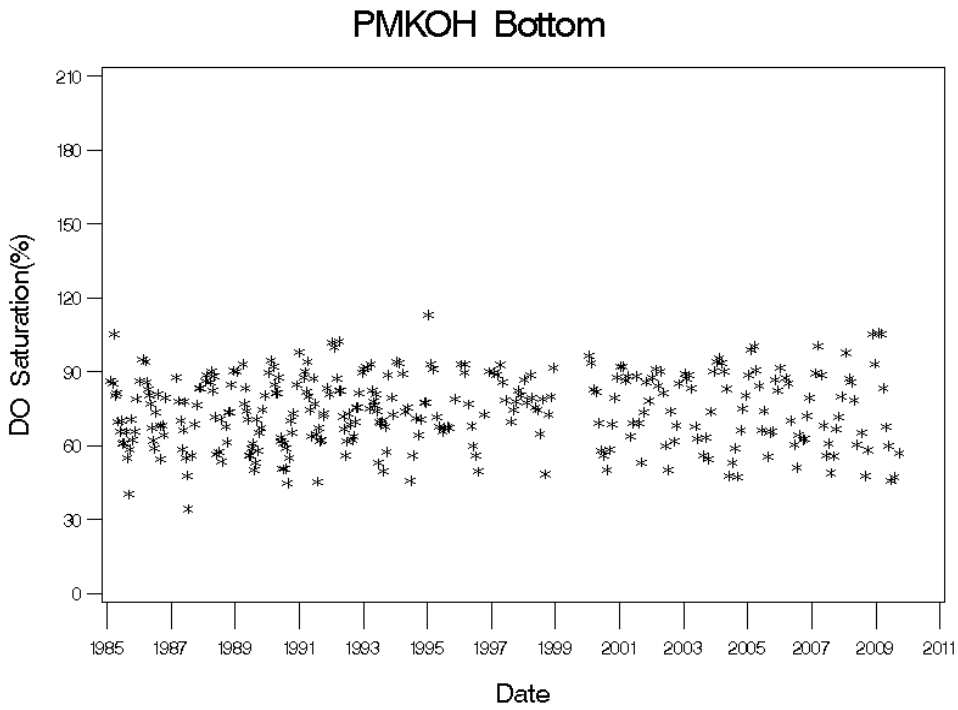
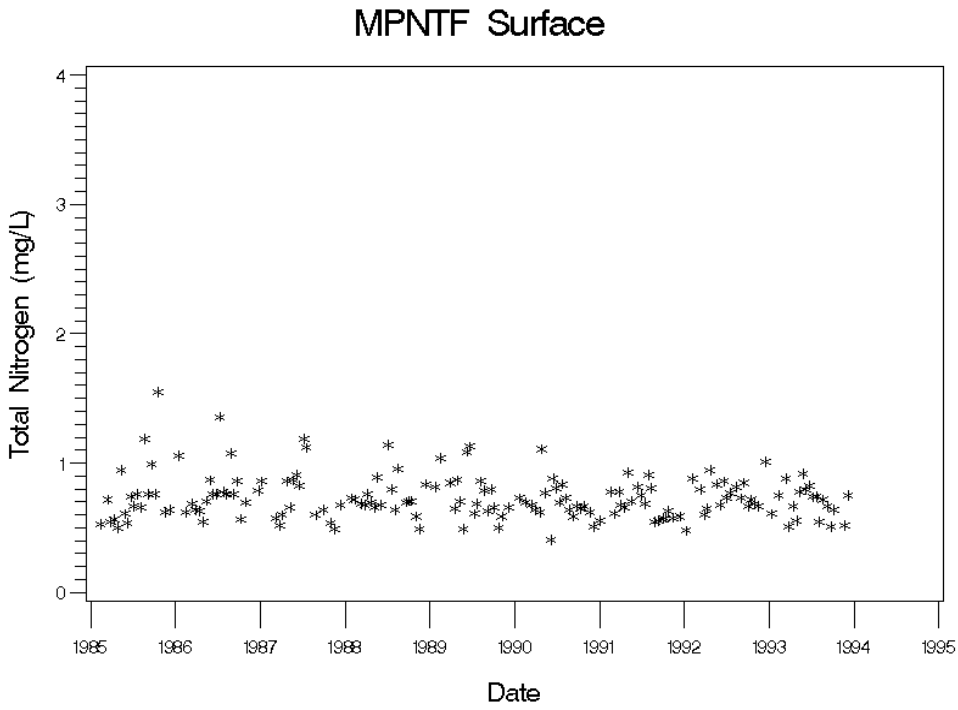


Figure 40. Scatterplot of bottom DO saturation at segment PMKOH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

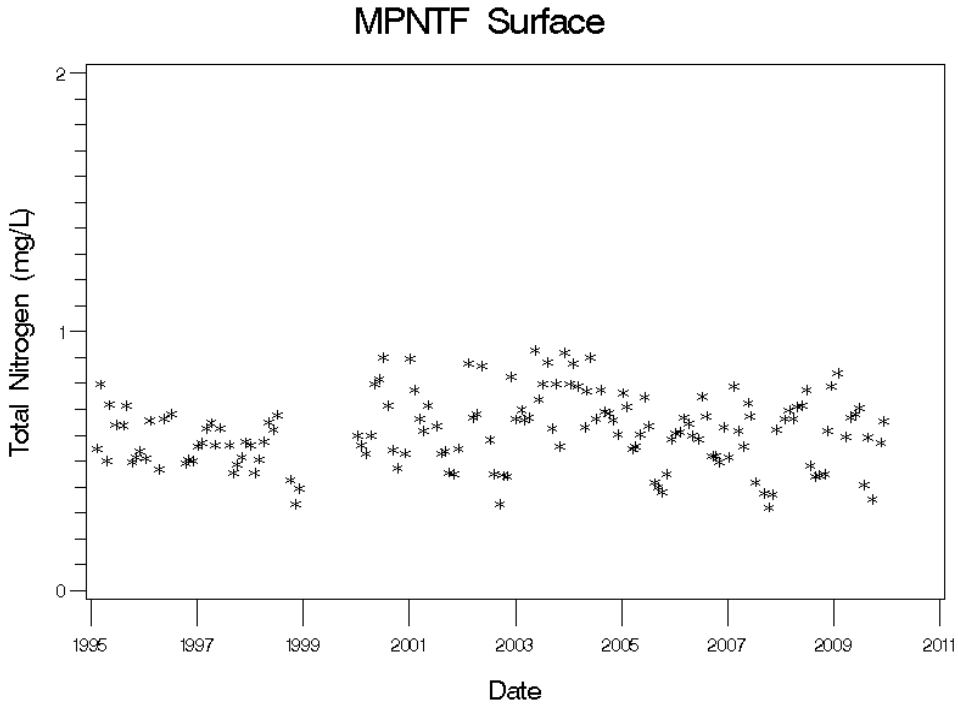
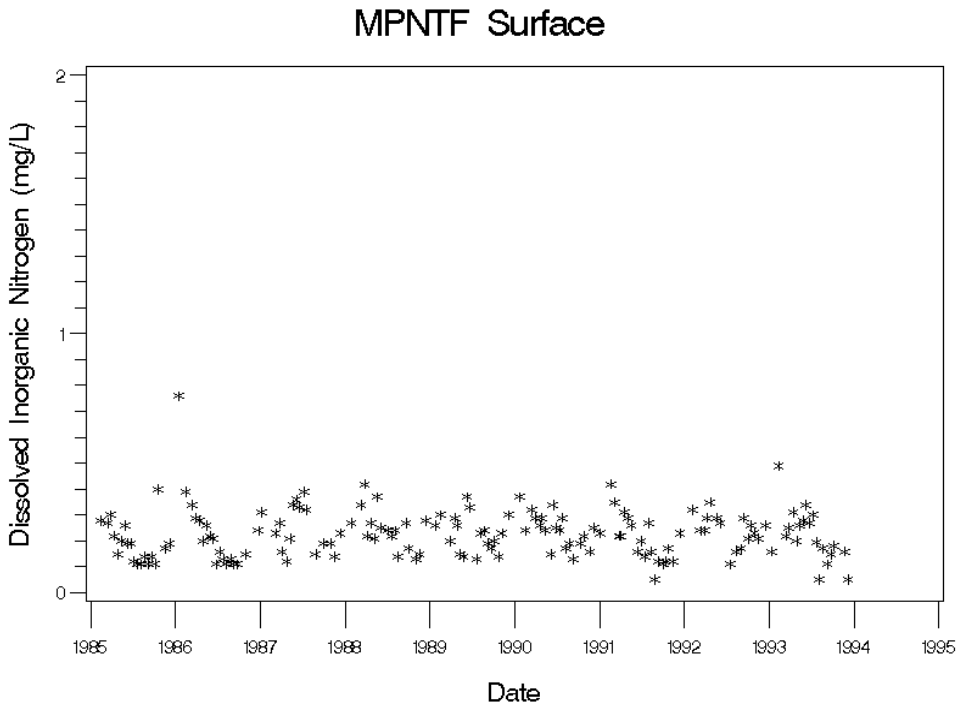


Figure 41. Scatterplots of surface total nitrogen at segment MPNTF during the a) Pre-method change (1985- 1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

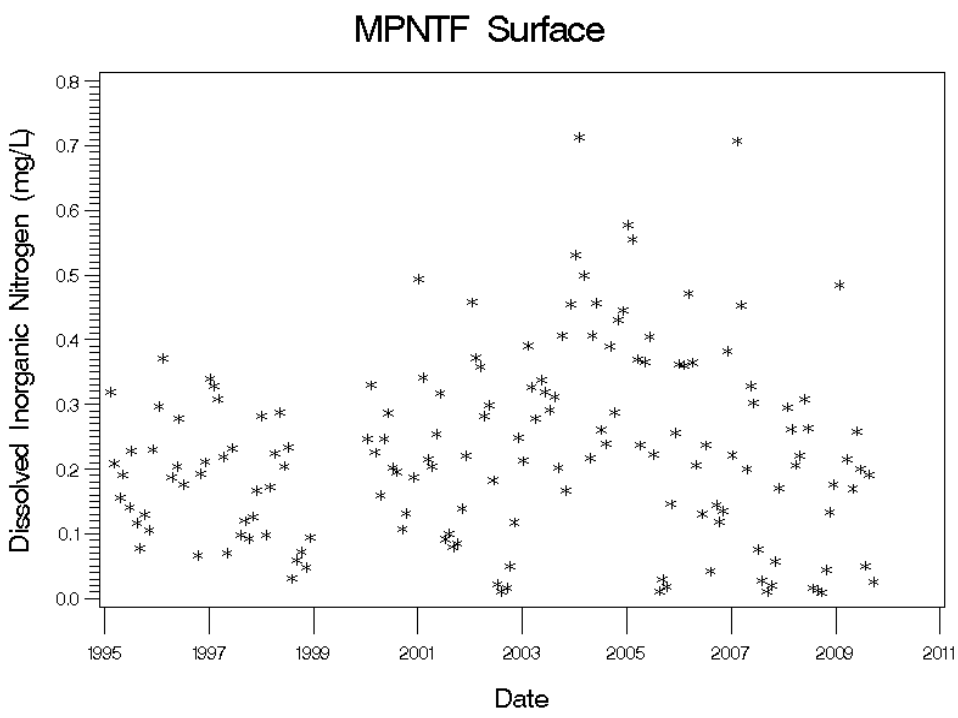
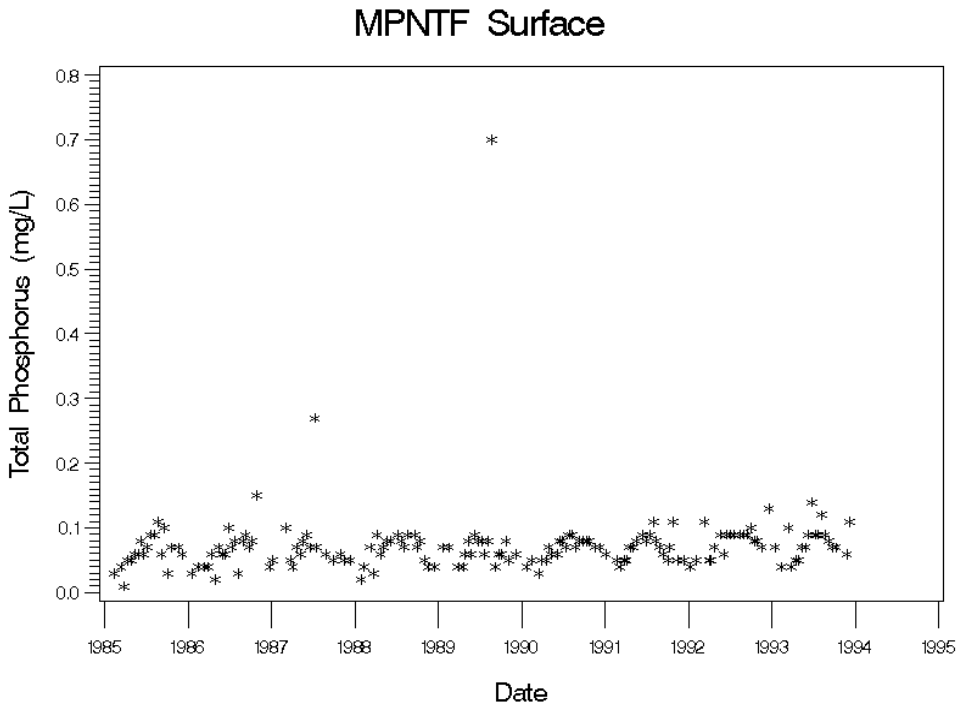


Figure 42. Scatterplots of surface dissolved inorganic nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

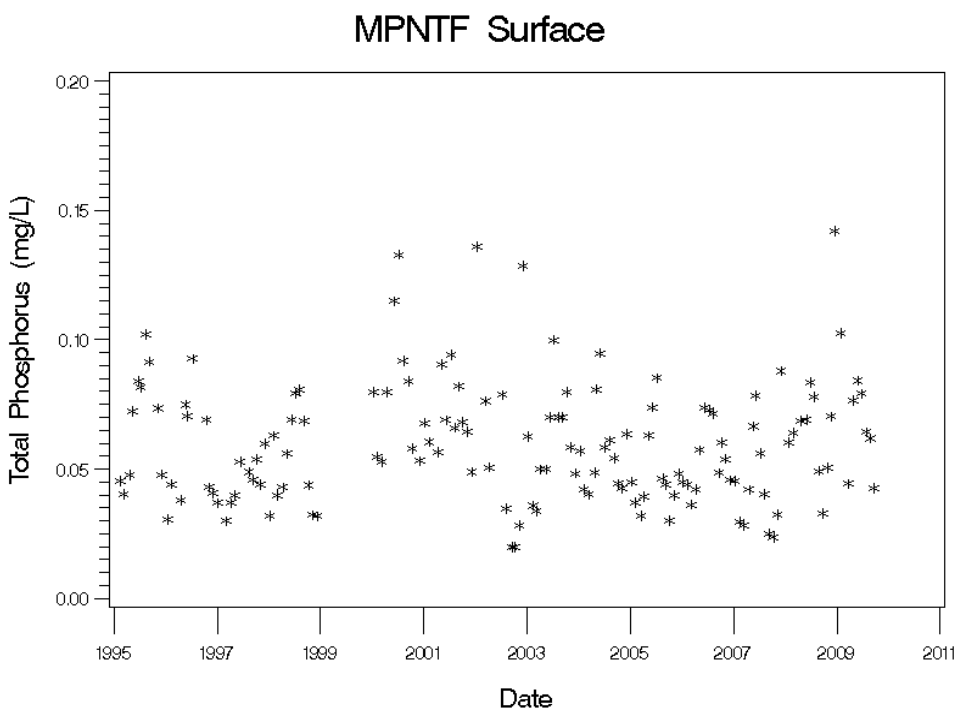
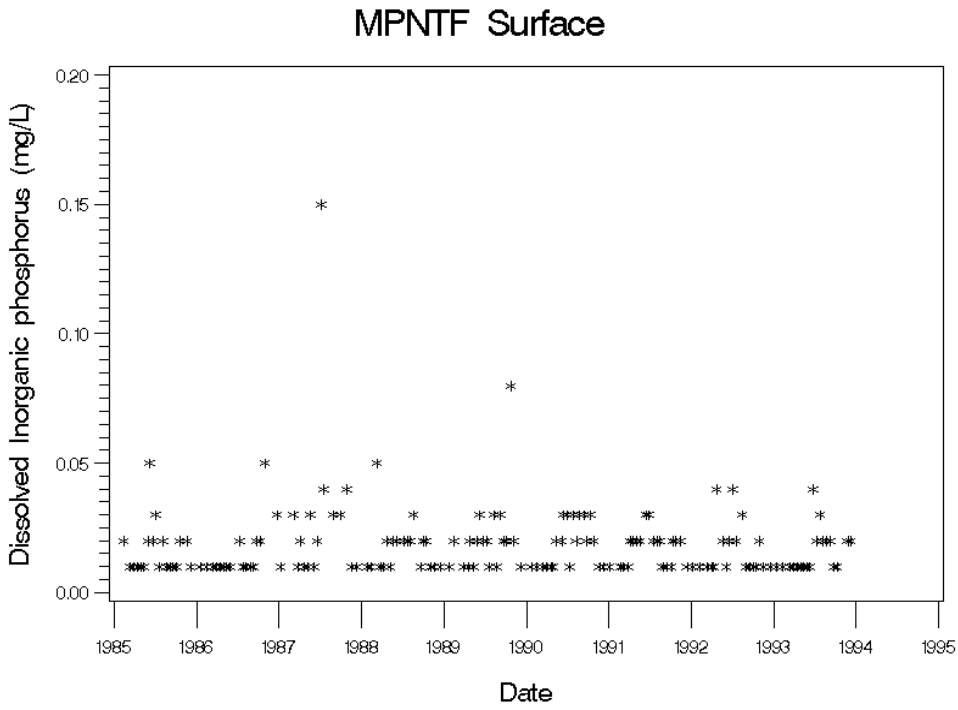


Figure 43. Scatterplots of surface total phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

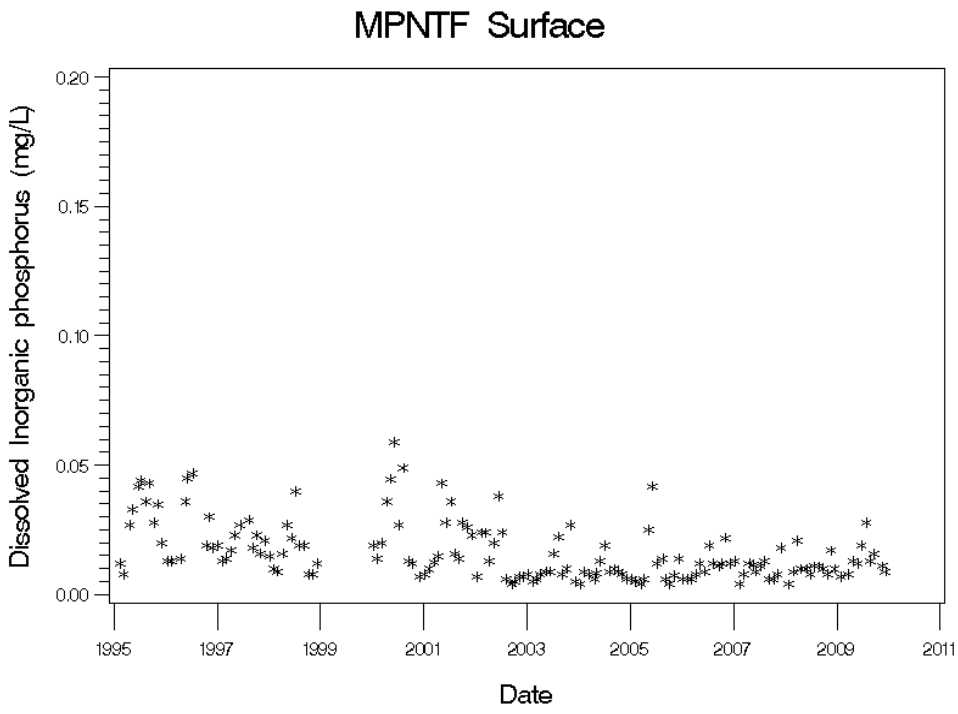


Figure 44. Scatterplots of surface dissolved inorganic phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

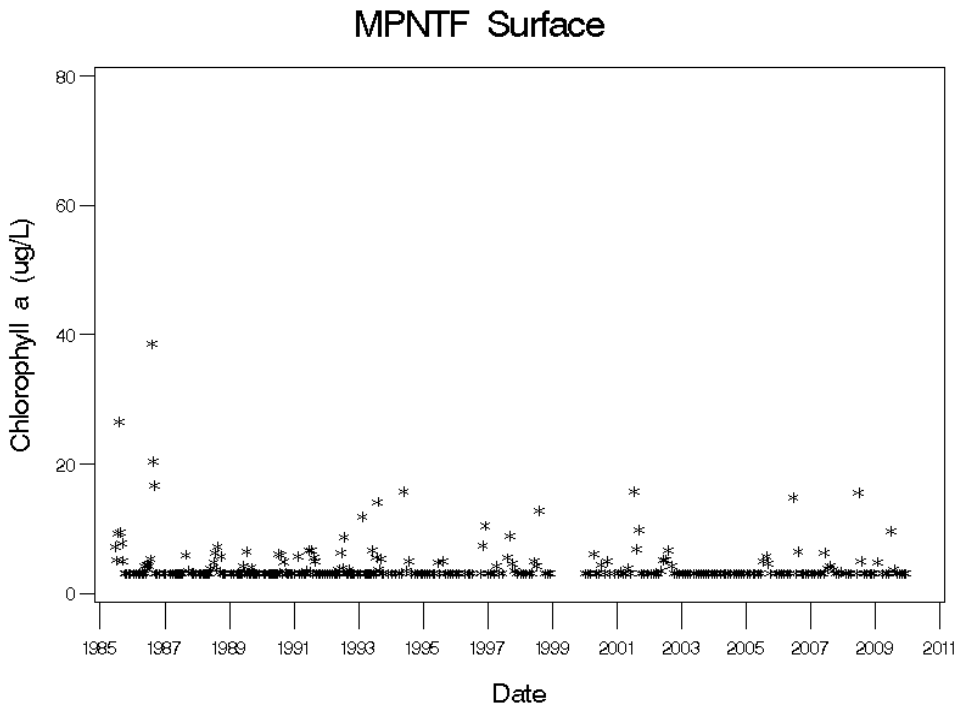


Figure 45. Scatterplot of surface chlorphyll a at segment MPNTF during the period 1985 to 2009.

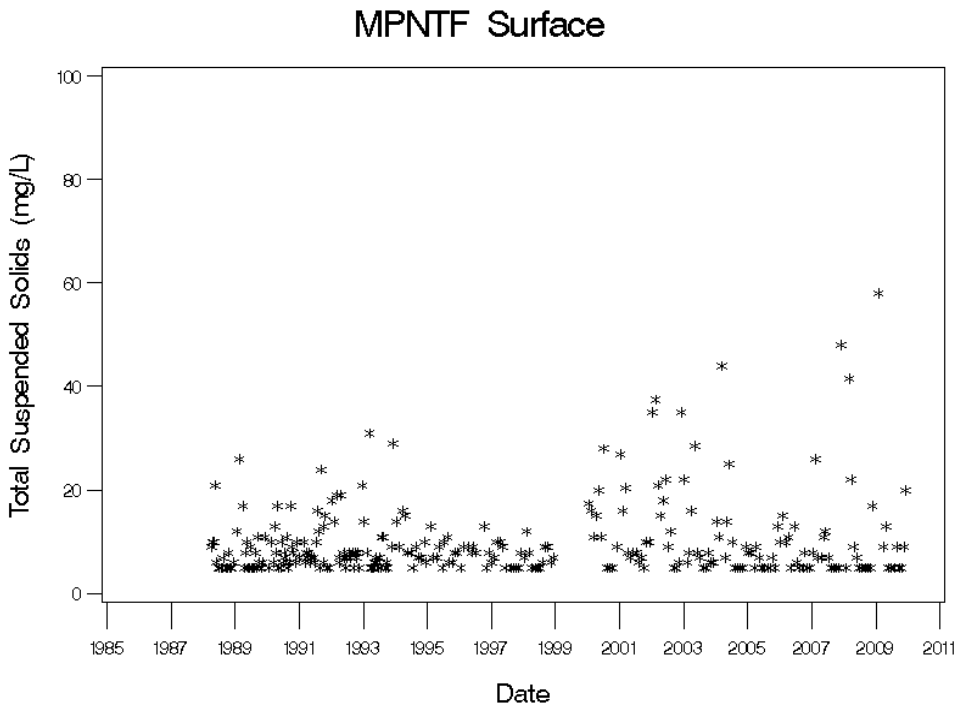


Figure 46. Scatterplot of surface total suspended solids at segment MPNTF during the period 1985 to 2009.

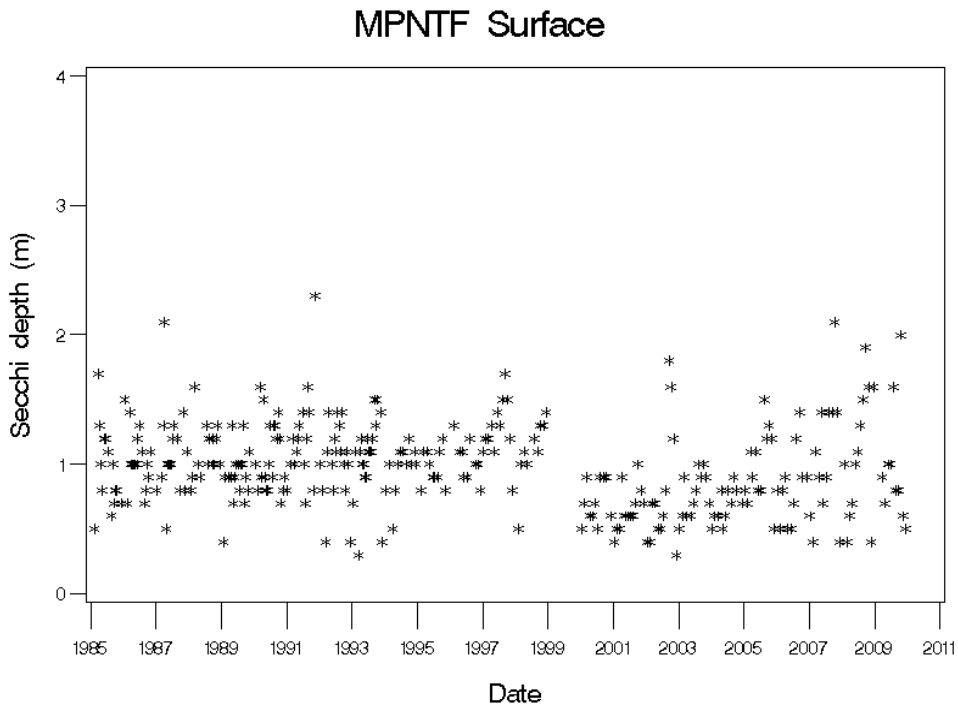


Figure 47. Scatterplot of secchi depth at segment MPNTF during the period 1985 to 2009.

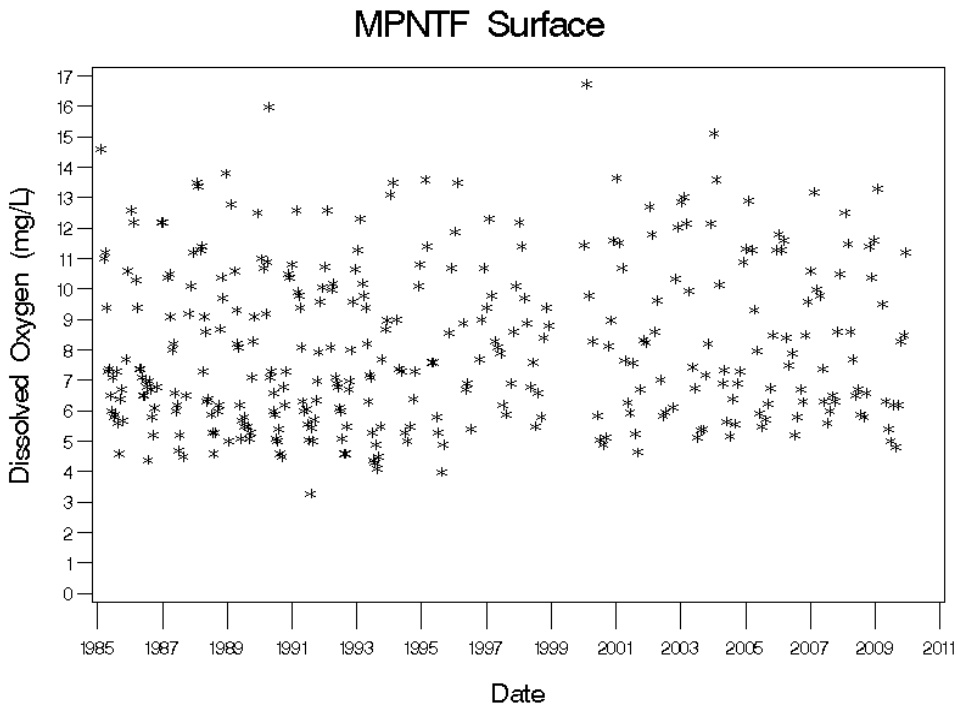


Figure 48. Scatterplot of surface dissolved oxygen at segment MPNTF during the period 1985 to 2009.

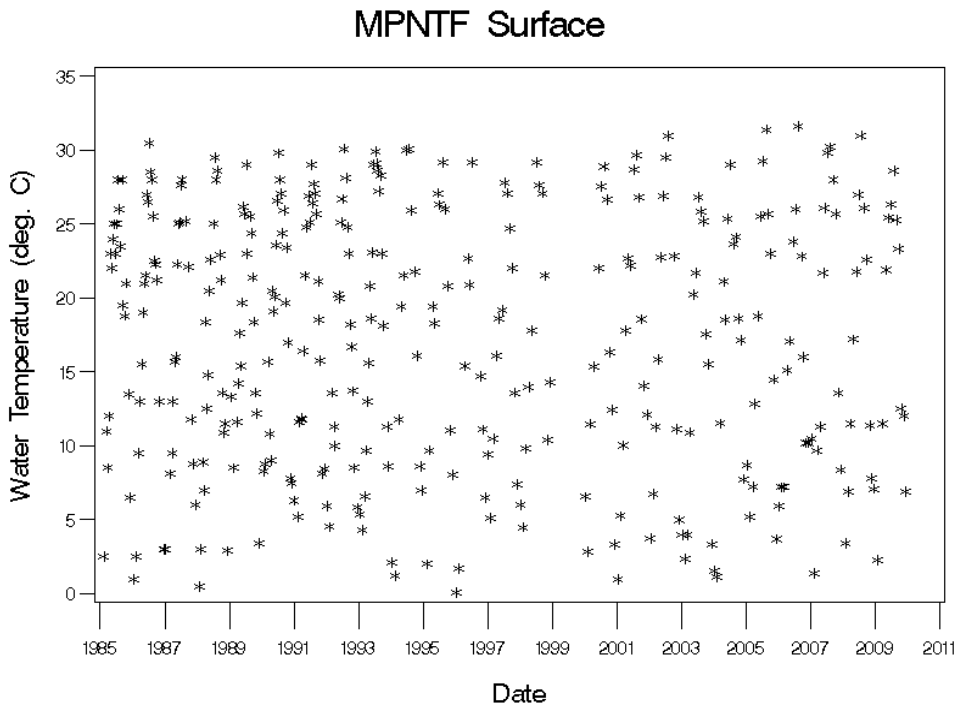


Figure 49. Scatterplot of surface water temperature at segment MPNTF during the period 1985 to 2009.

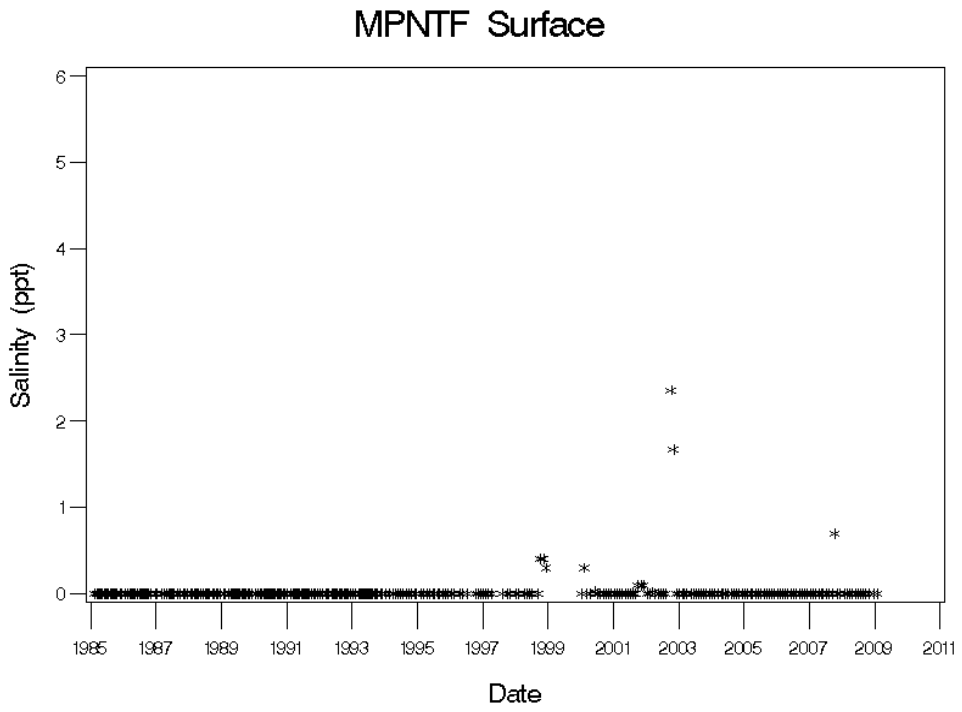


Figure 50. Scatterplot of surface salinity at segment MPNTF during the period 1985 to 2009.

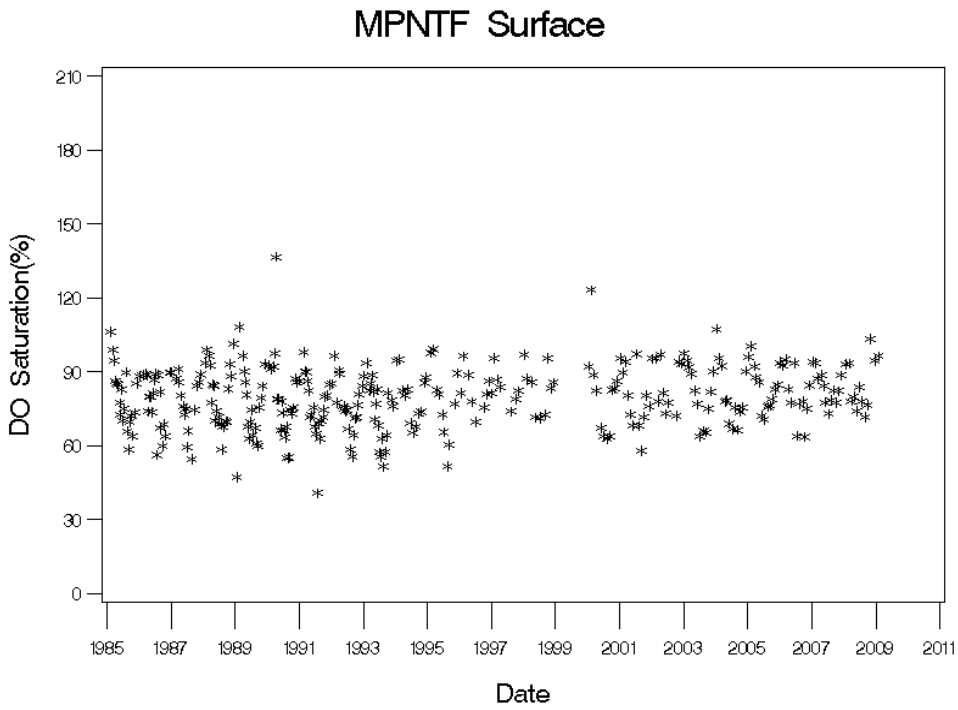
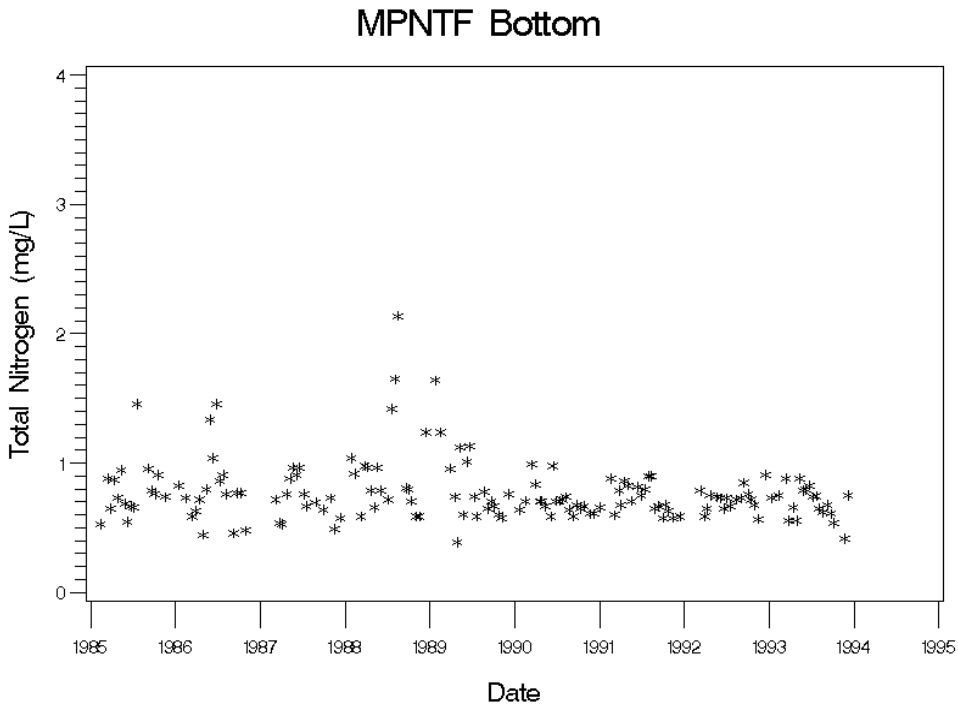


Figure 51. Scatterplot of surface DO saturation at segment MPNTF during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

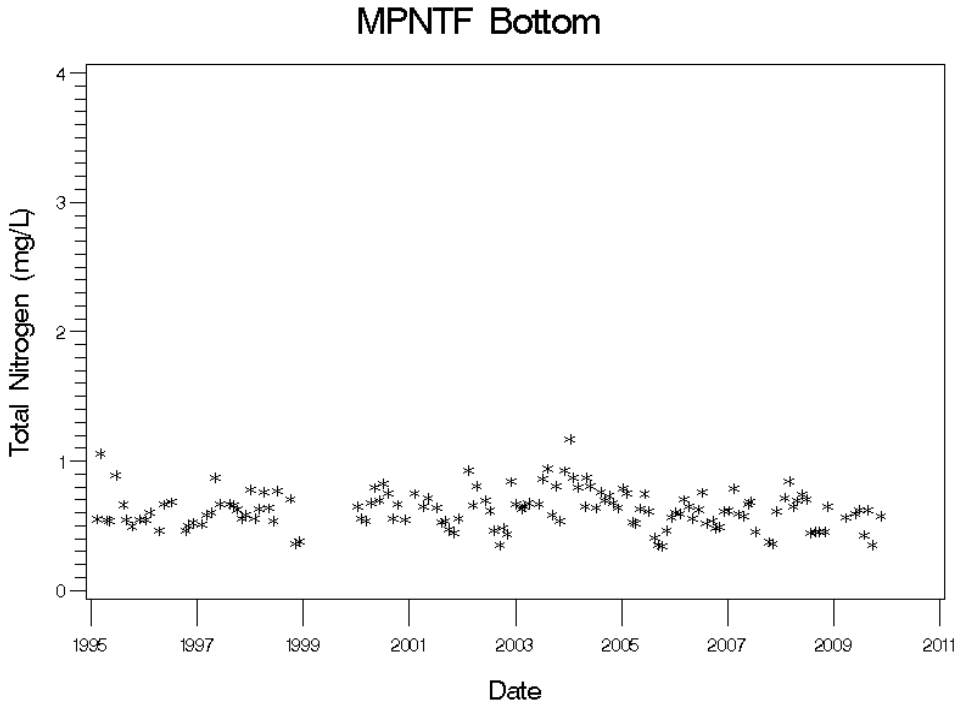
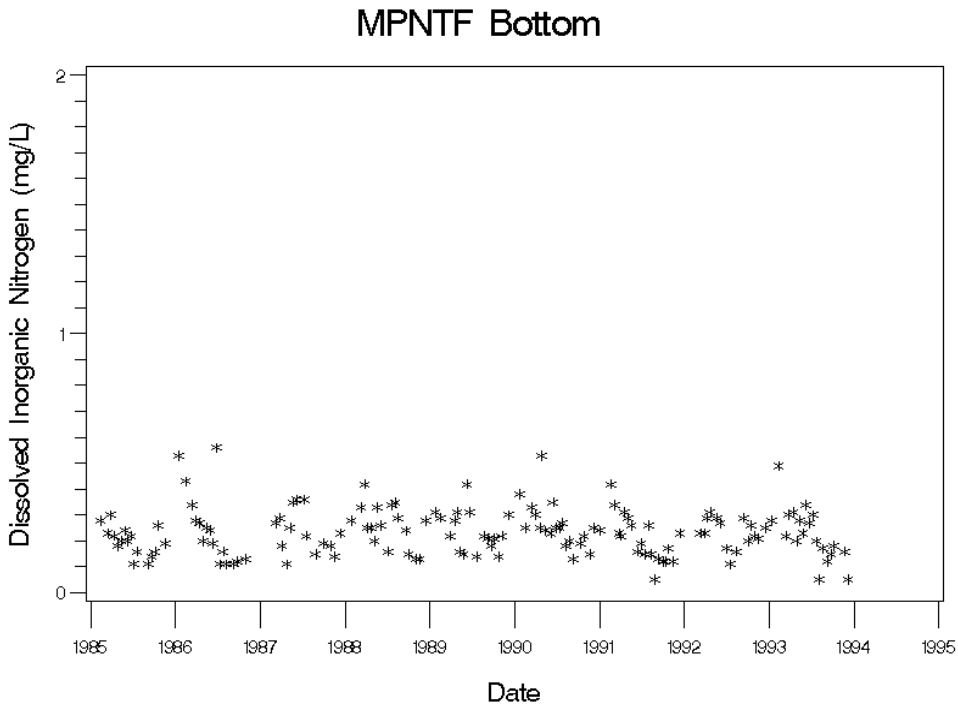


Figure 52. Scatterplots of bottom total nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

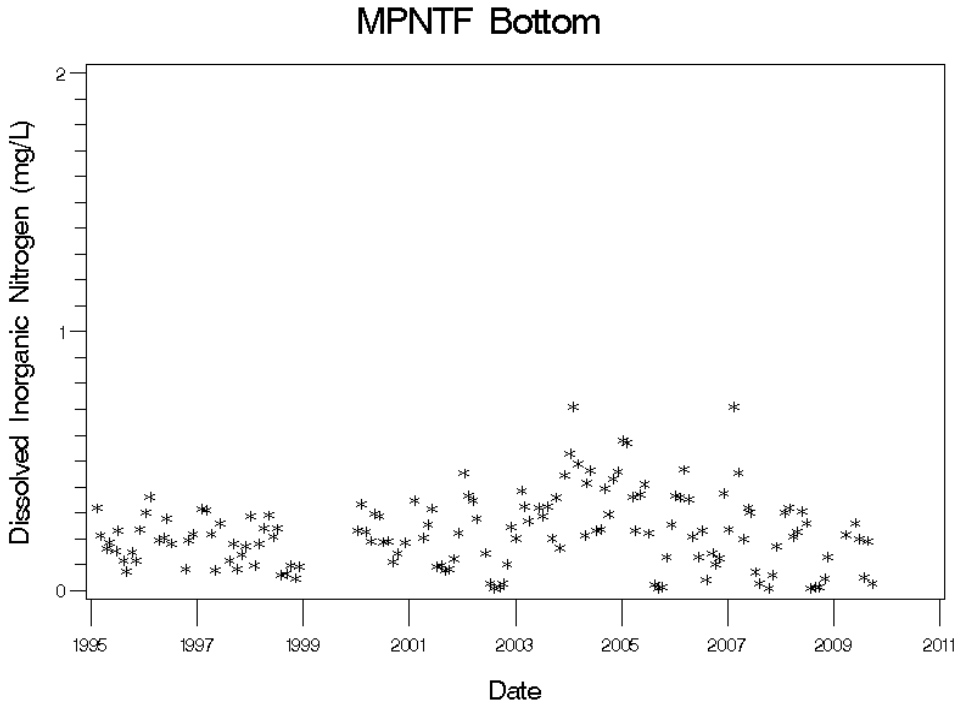
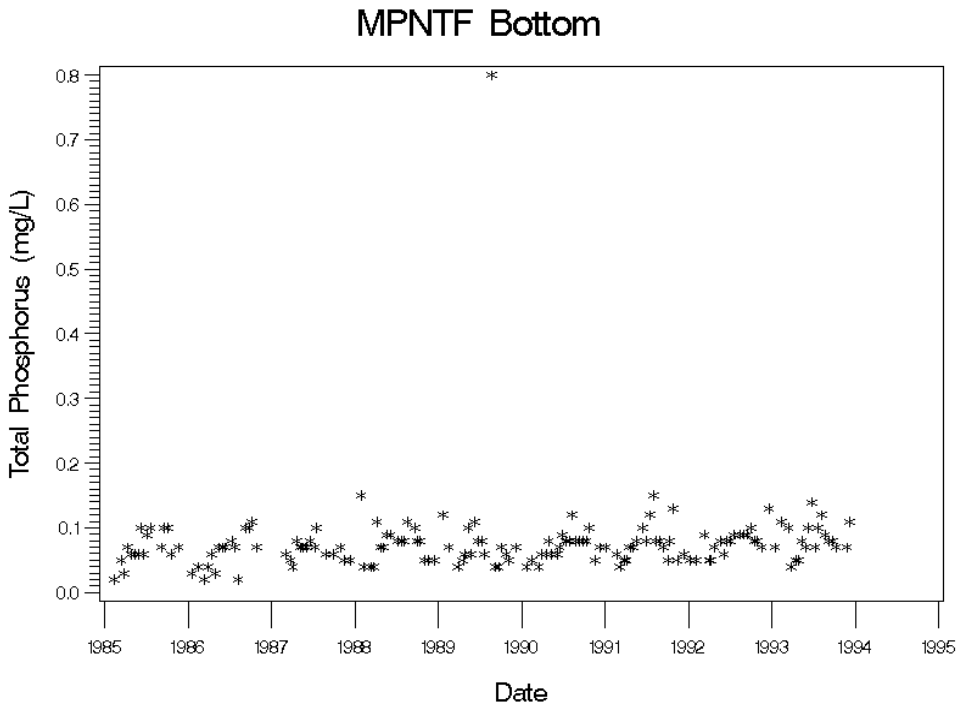


Figure 53. Scatterplots of bottom dissolved inorganic nitrogen at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

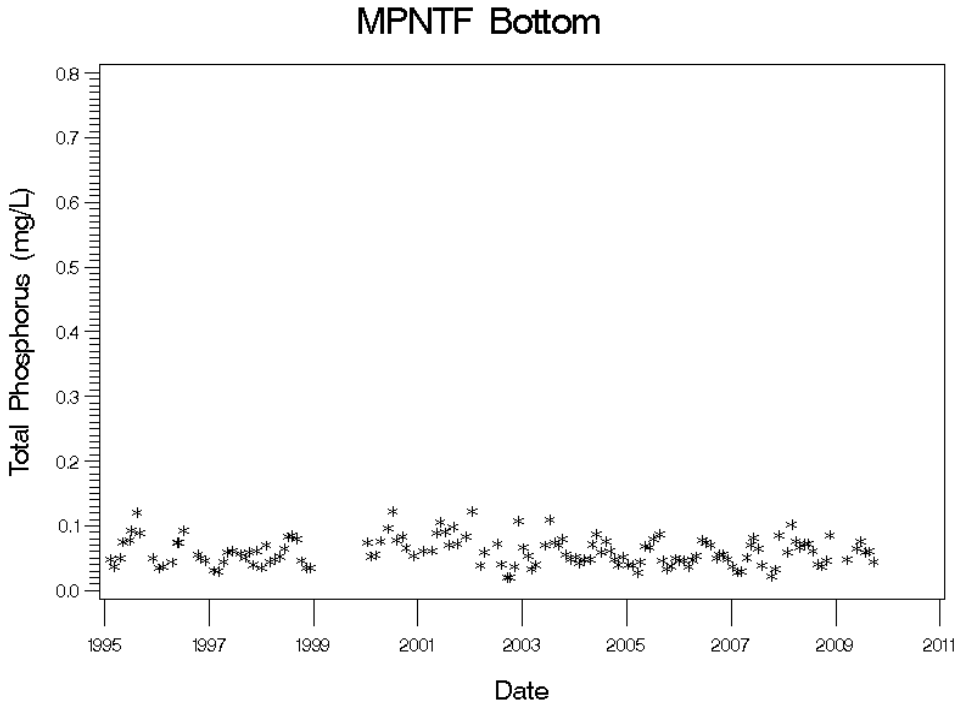
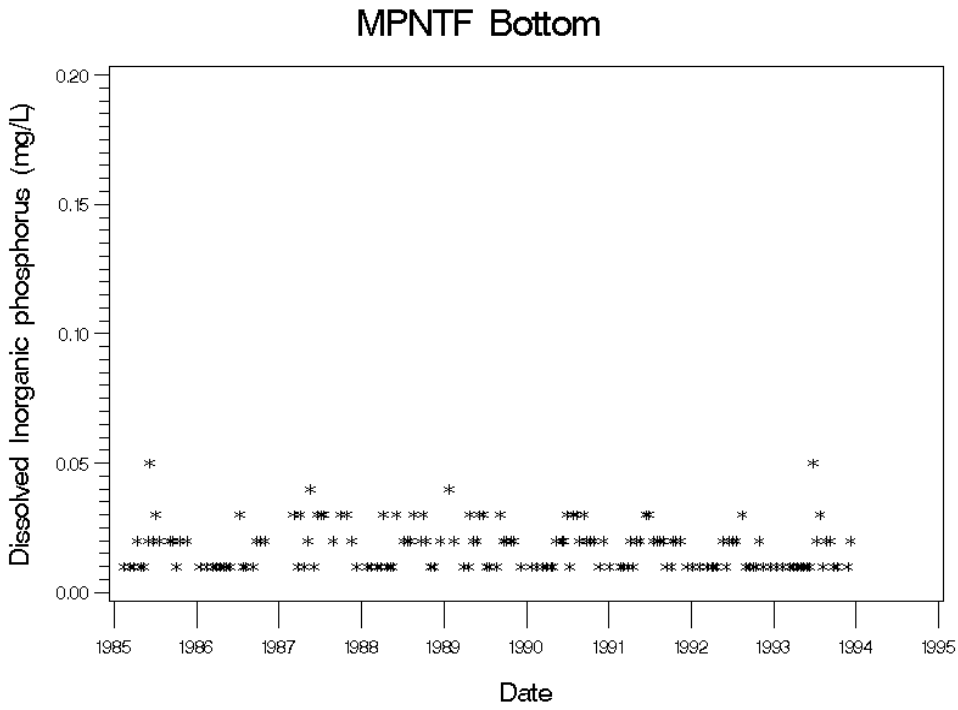


Figure 54. Scatterplots of bottom total phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

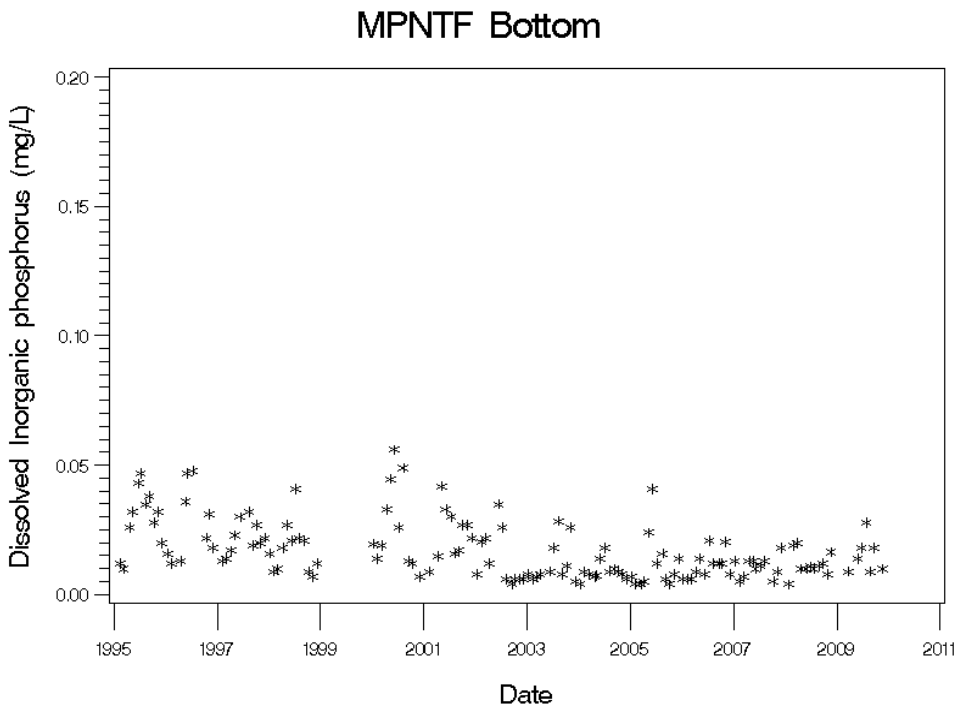


Figure 55. Scatterplots of bottom dissolved inorganic phosphorus at segment MPNTF during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

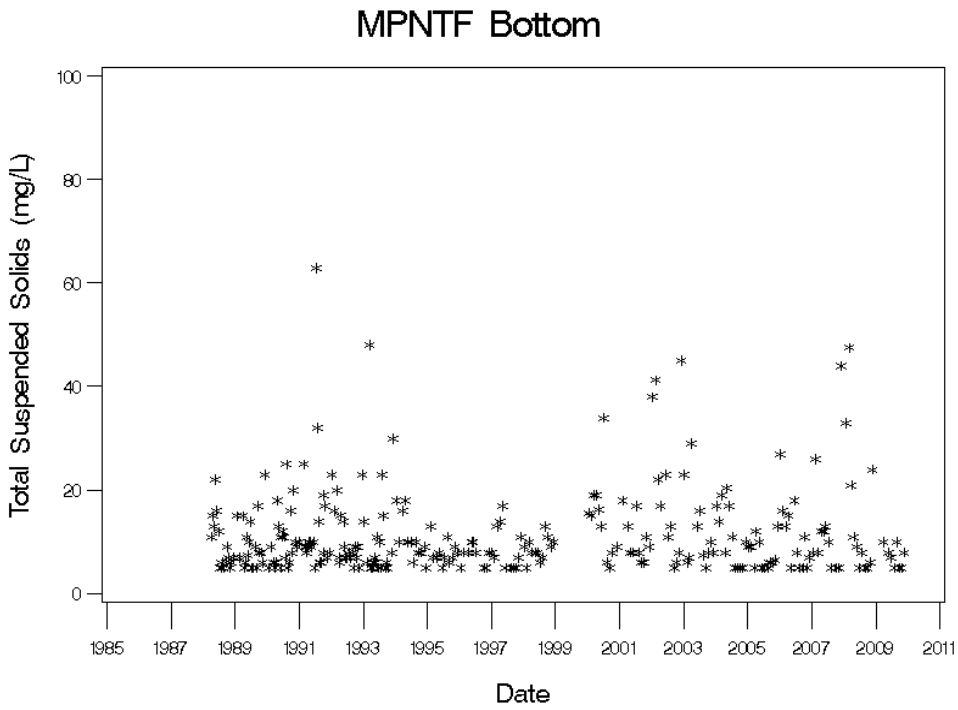


Figure 56. Scatterplot of bottom total suspended solids at segment MPNTF during the period 1985 to 2009.

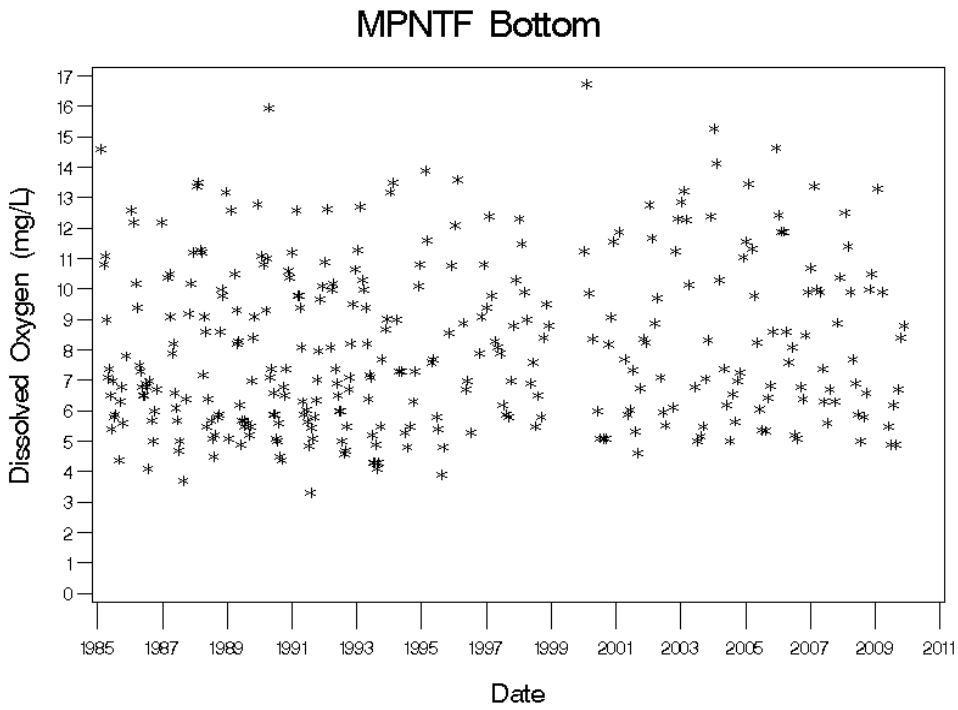


Figure 57. Scatterplot of bottom dissolved oxygen at segment MPNTF during the period 1985 to 2009.

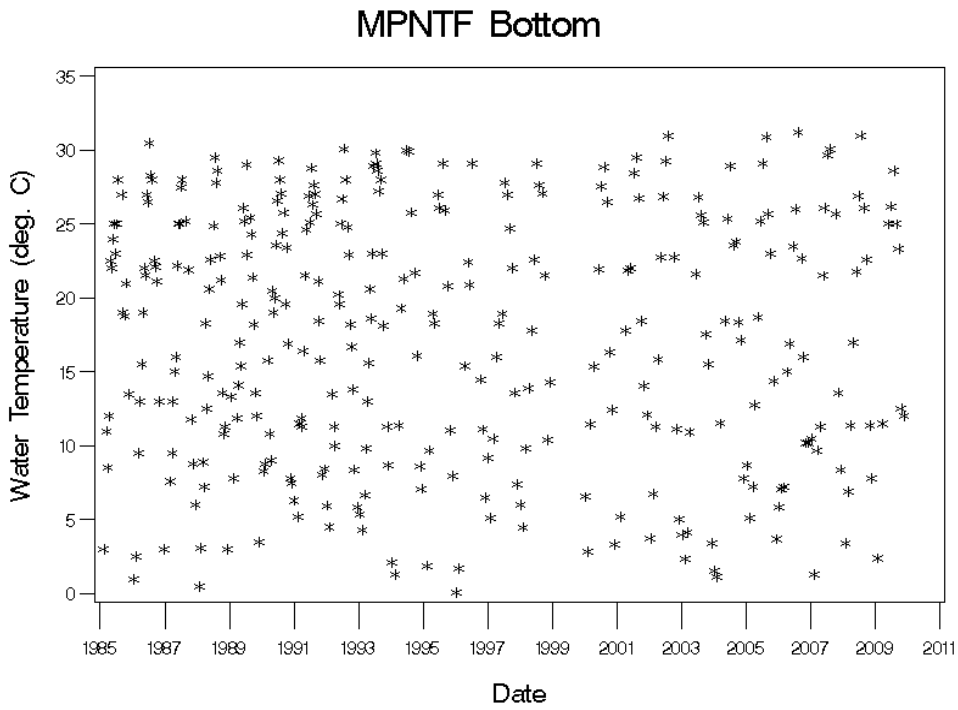


Figure 58. Scatterplot of bottom water temperature at segment MPNTF during the period 1985 to 2009.

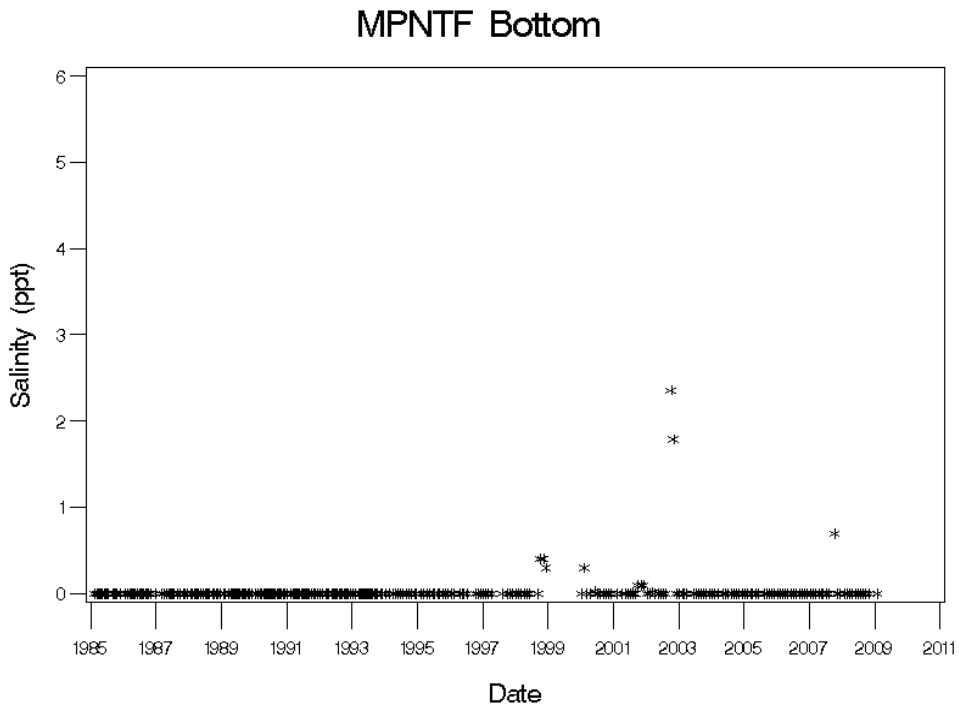


Figure 59. Scatterplot of bottom salinity at segment MPNTF during the period 1985 to 2009.

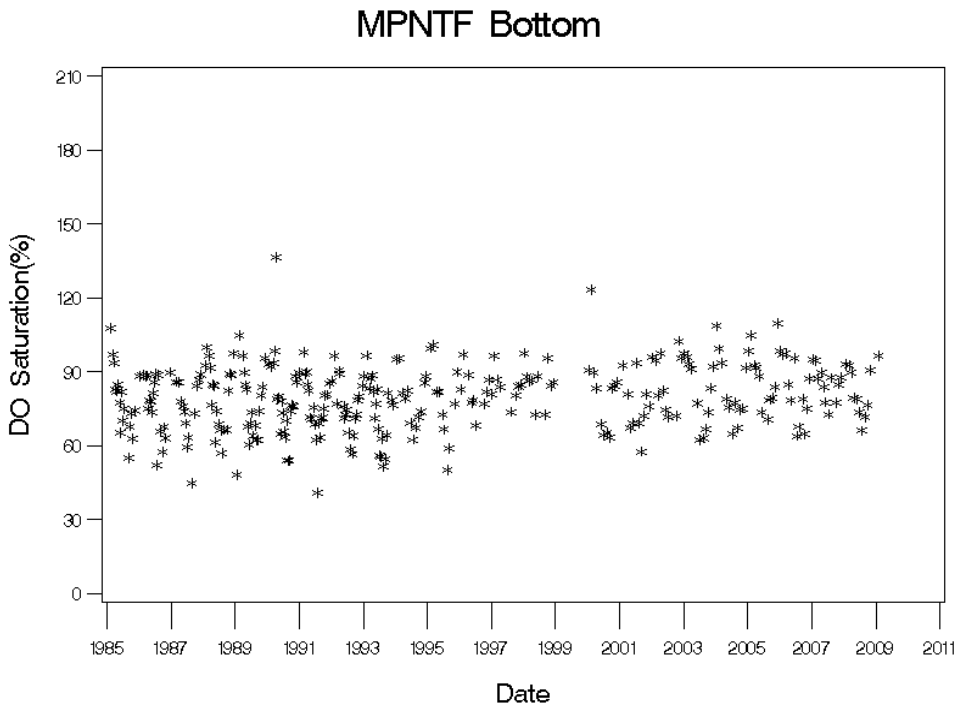
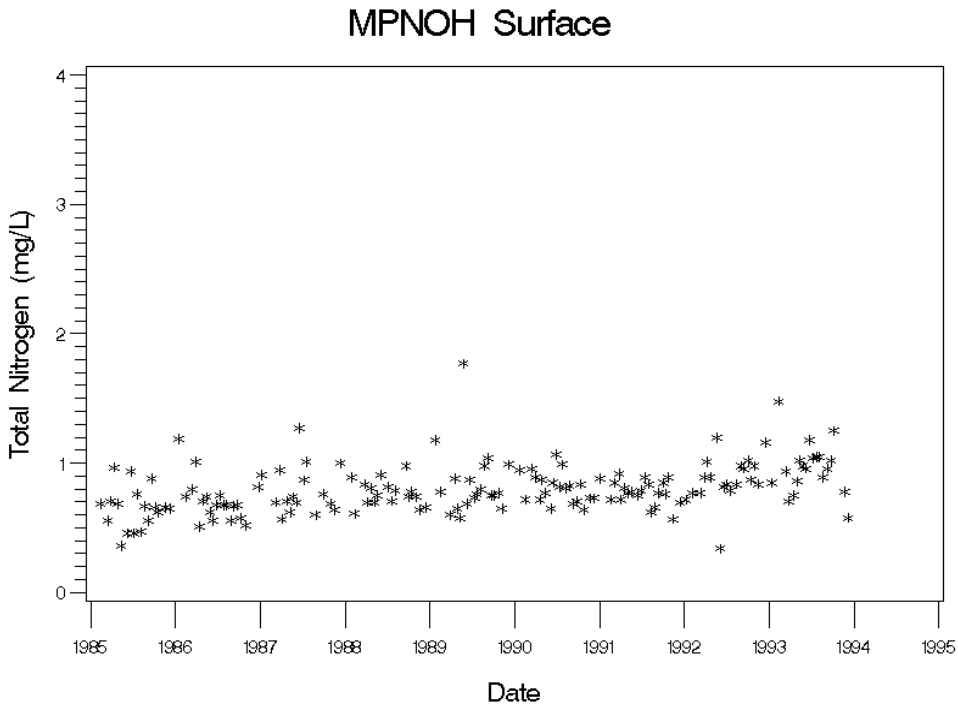


Figure 60. Scatterplot of bottom DO saturation at segment MPNTF during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

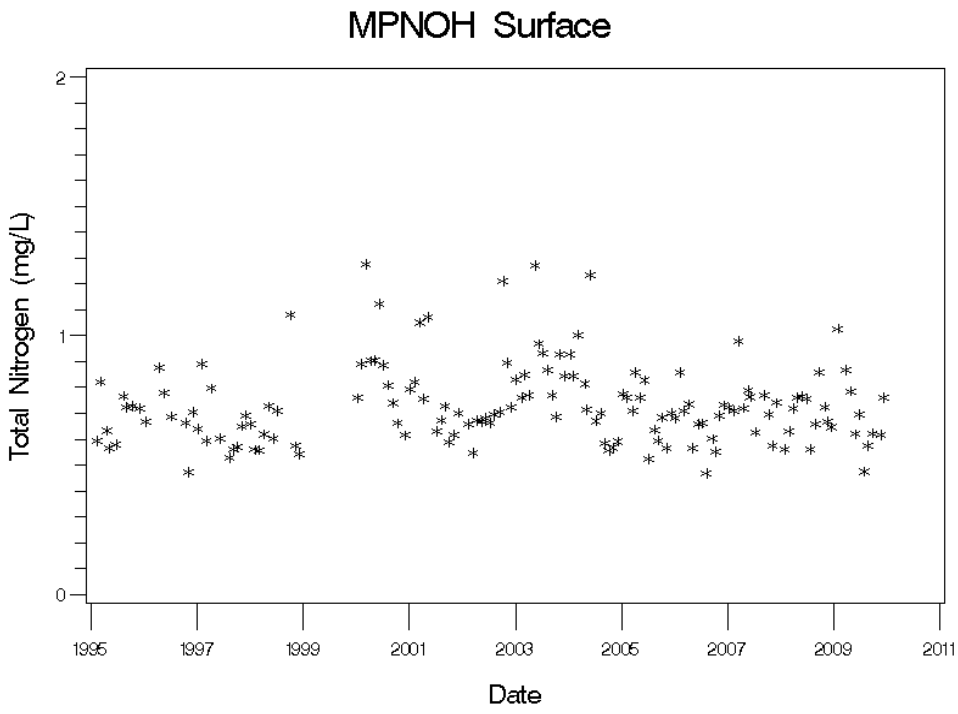
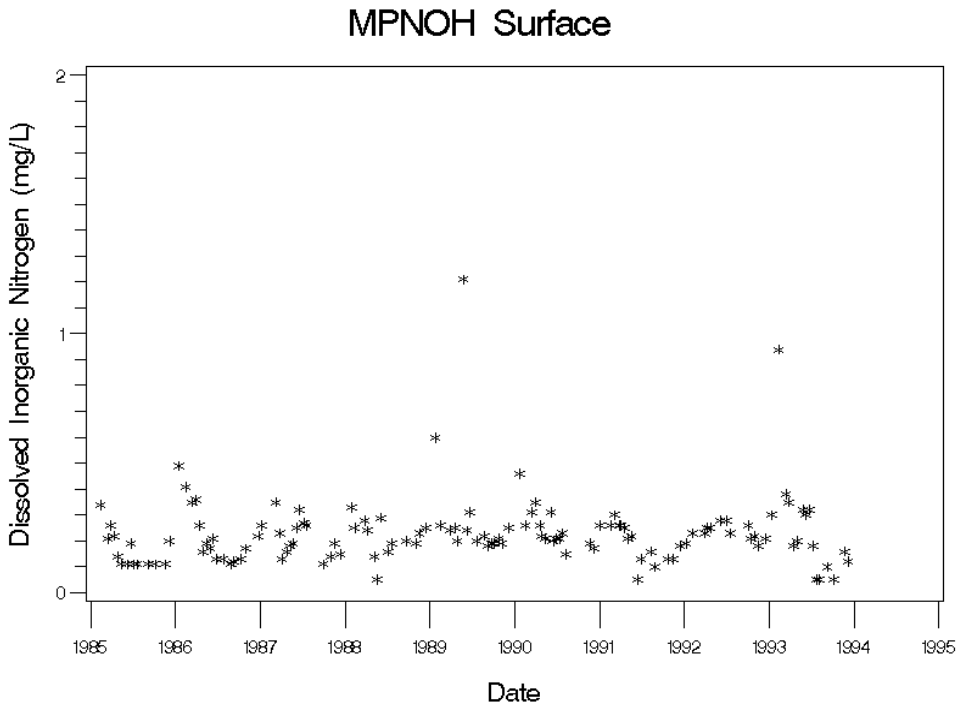


Figure 61. Scatterplots of surface total nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

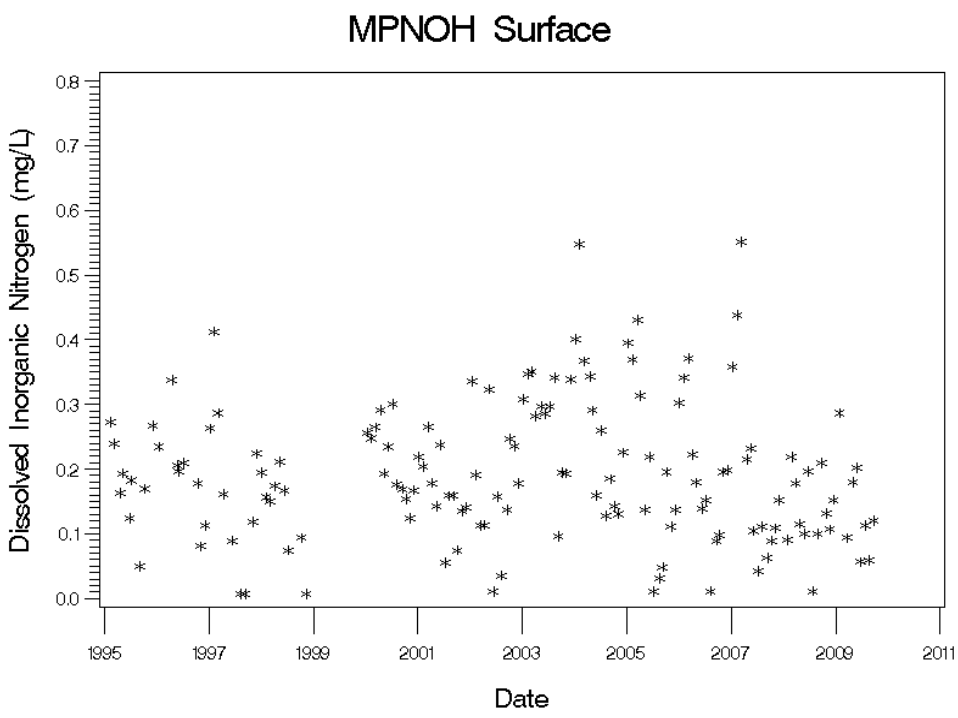
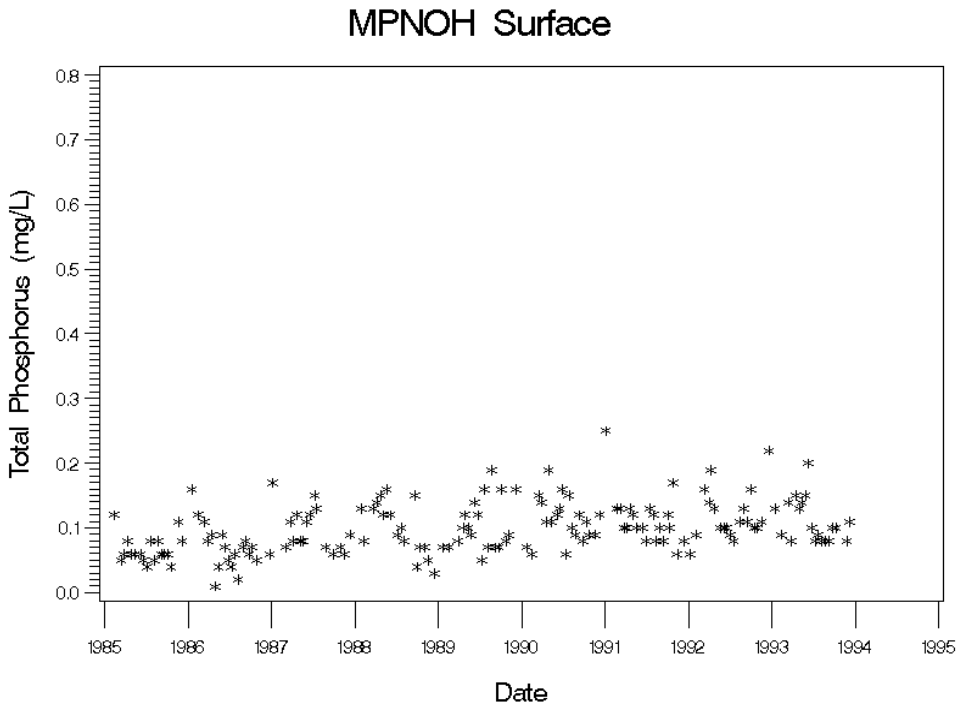


Figure 62. Scatterplots of surface dissolved inorganic nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

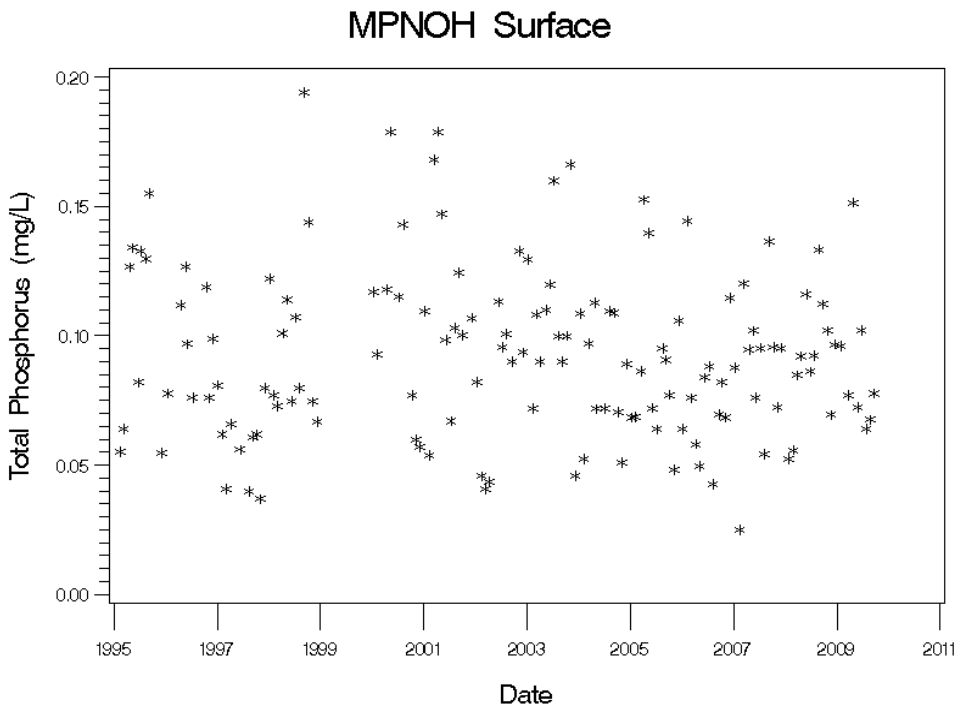
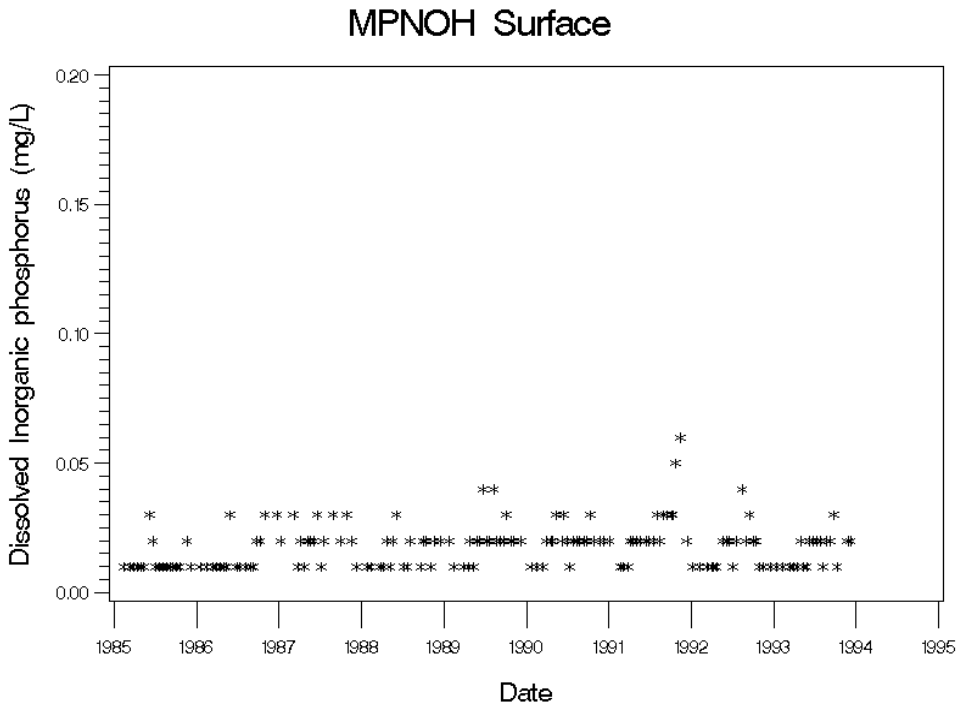


Figure 63. Scatterplots of surface total phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

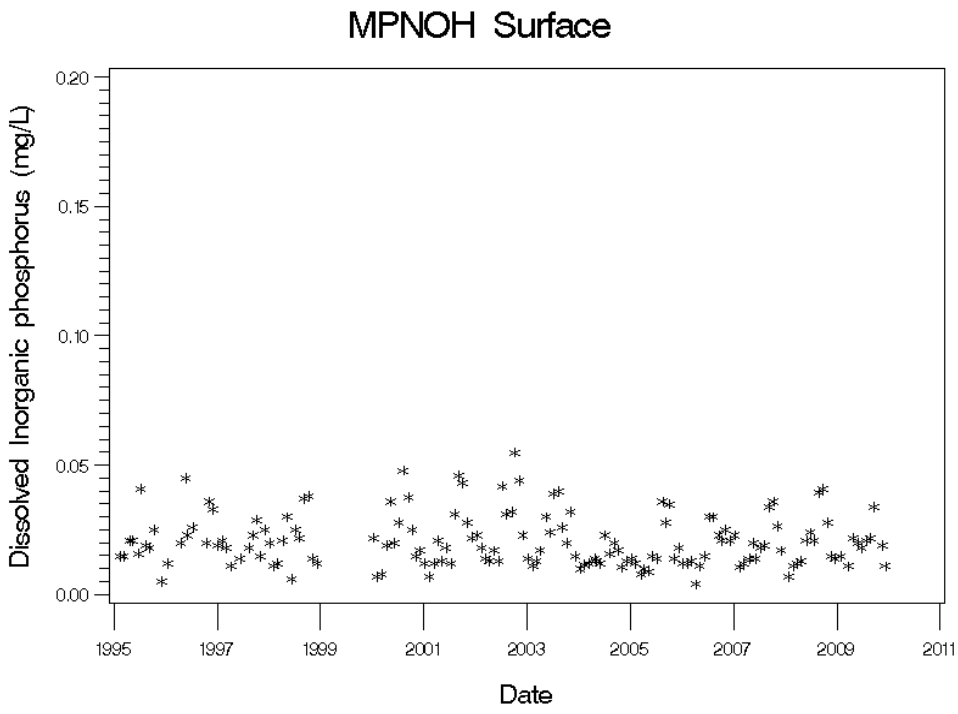


Figure 64. Scatterplots of surface dissolved inorganic phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

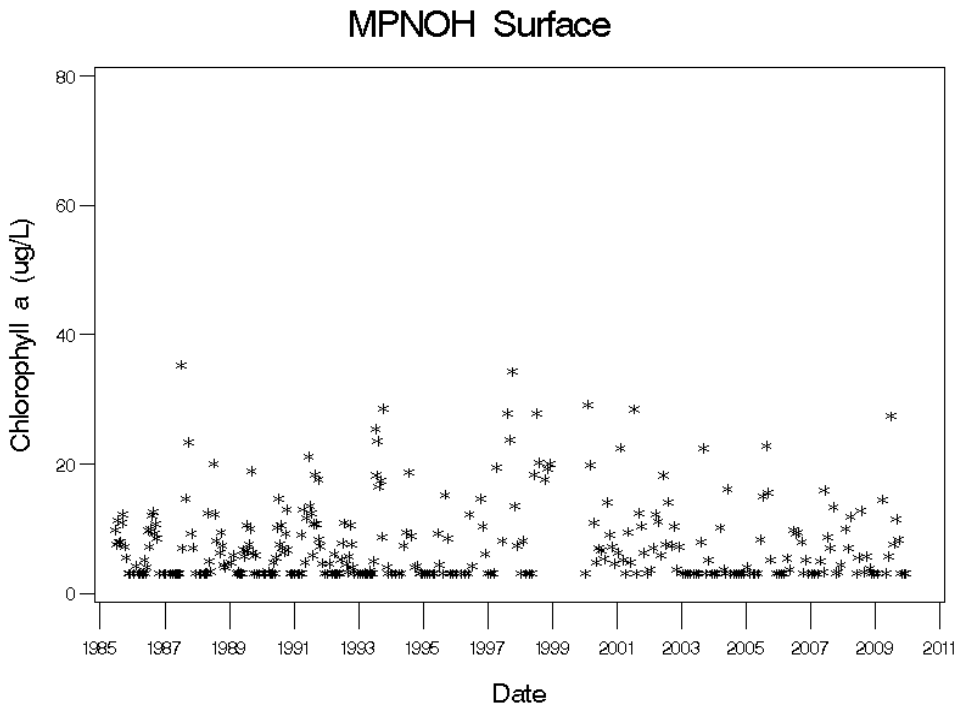


Figure 65. Scatterplot of surface chlorphyll a at segment MPNOH during the period 1985 to 2009.

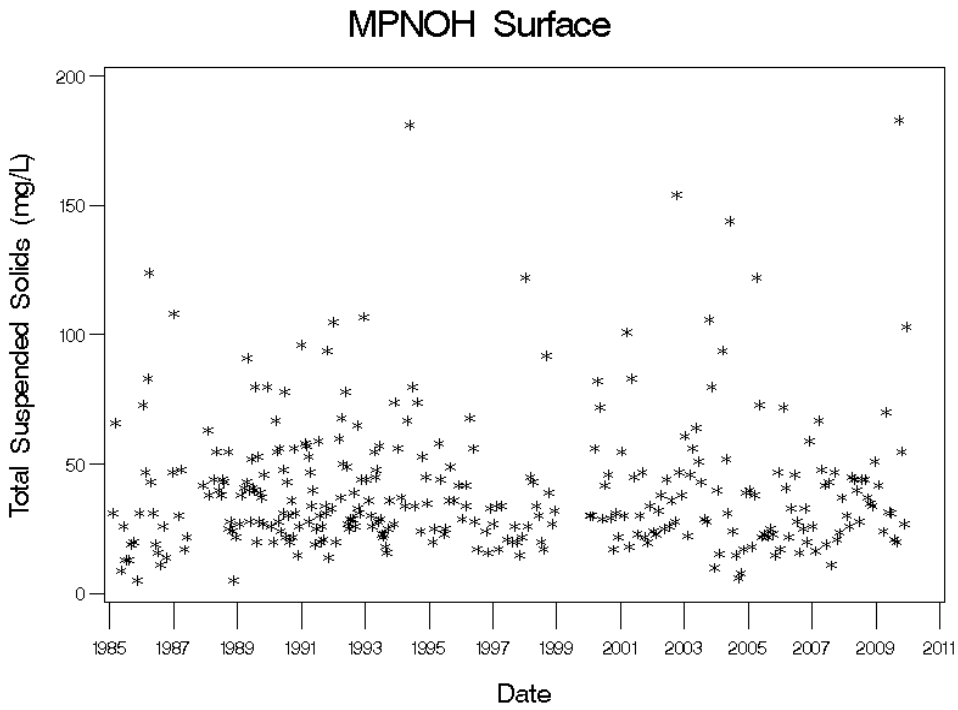


Figure 66. Scatterplot of surface total suspended solids at segment MPNOH during the period 1985 to 2009.

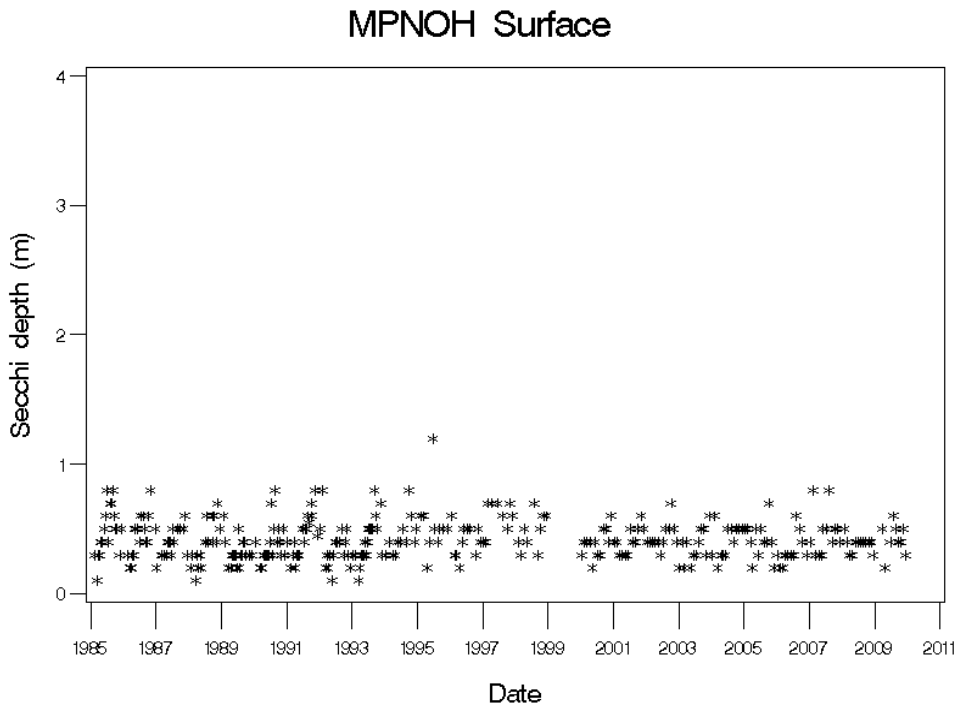


Figure 67. Scatterplot of secchi depth at segment MPNOH during the period 1985 to 2009.

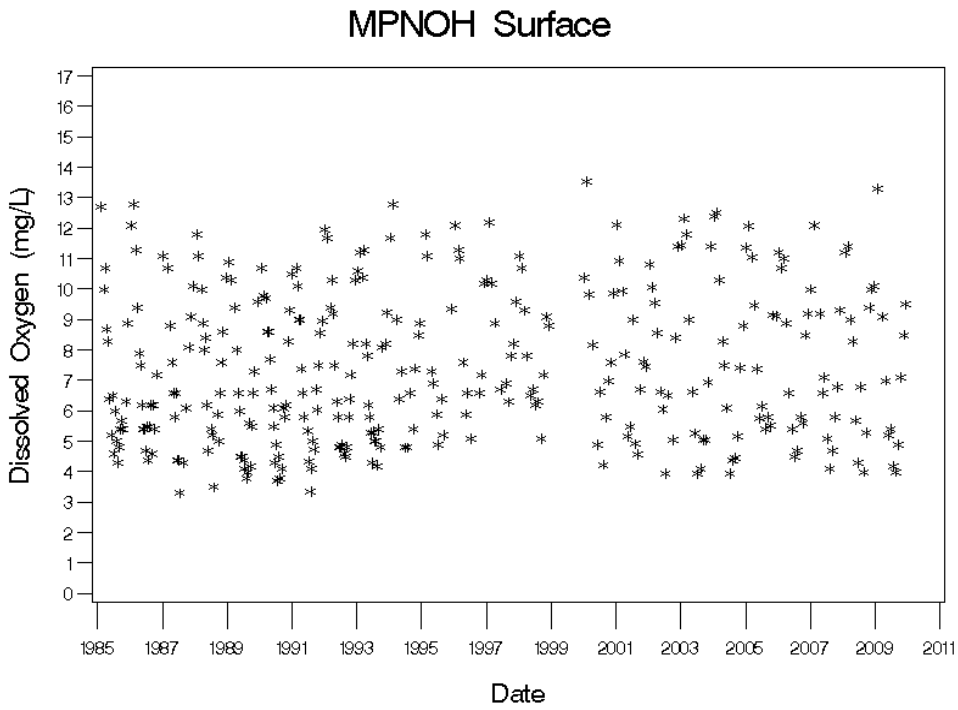


Figure 68. Scatterplot of surface dissolved oxygen at segment MPNOH during the period 1985 to 2009.

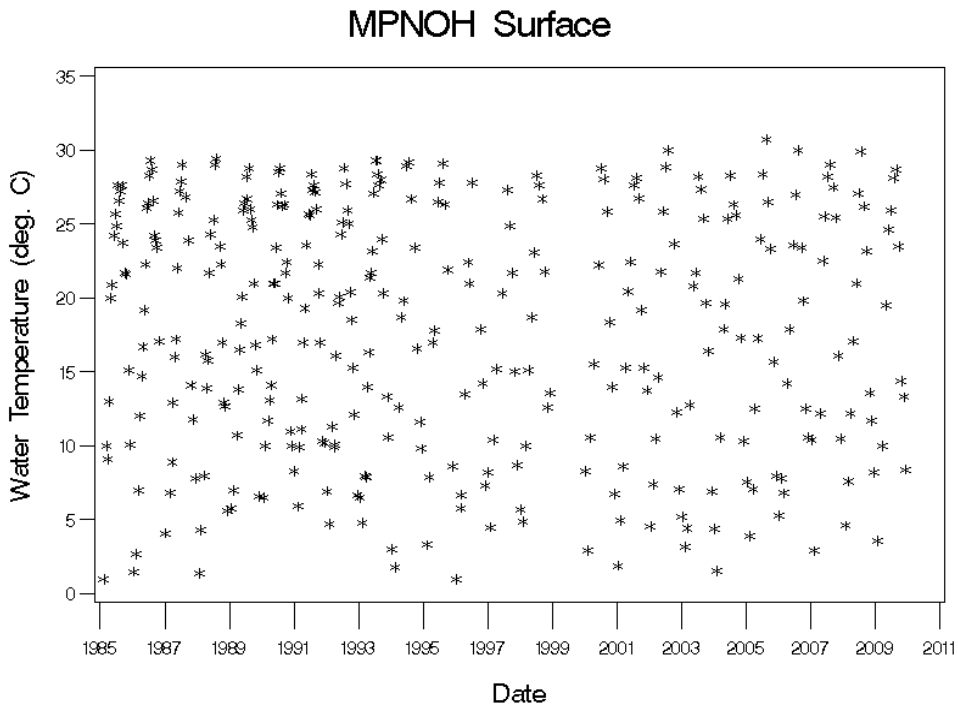


Figure 69. Scatterplot of surface water temperature at segment MPNOH during the period 1985 to 2009.

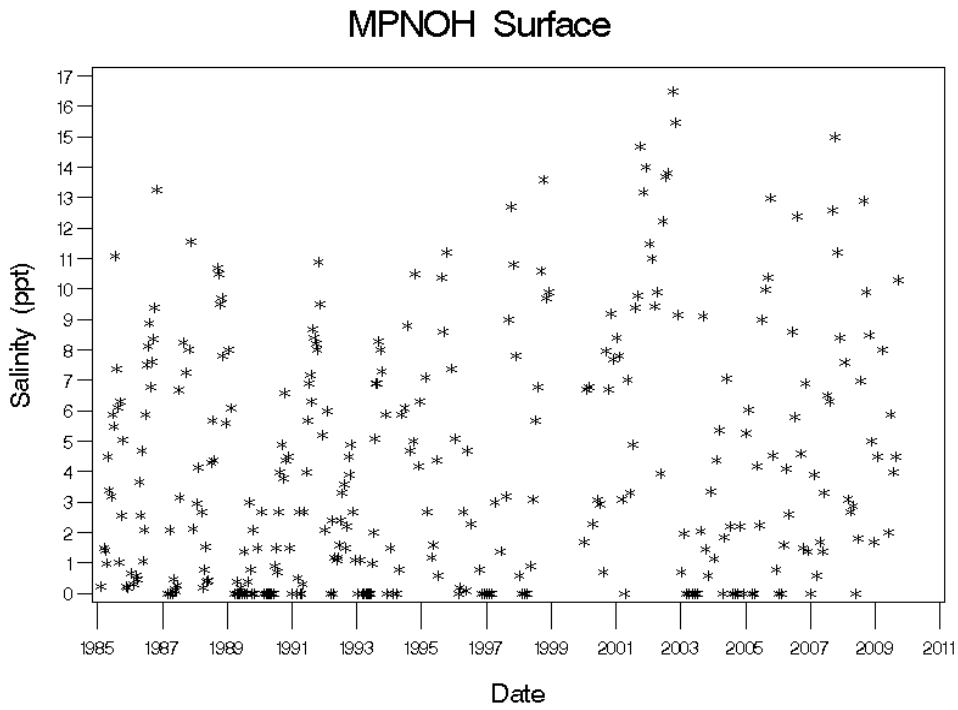


Figure 70. Scatterplot of surface salinity at segment MPNOH during the period 1985 to 2009.

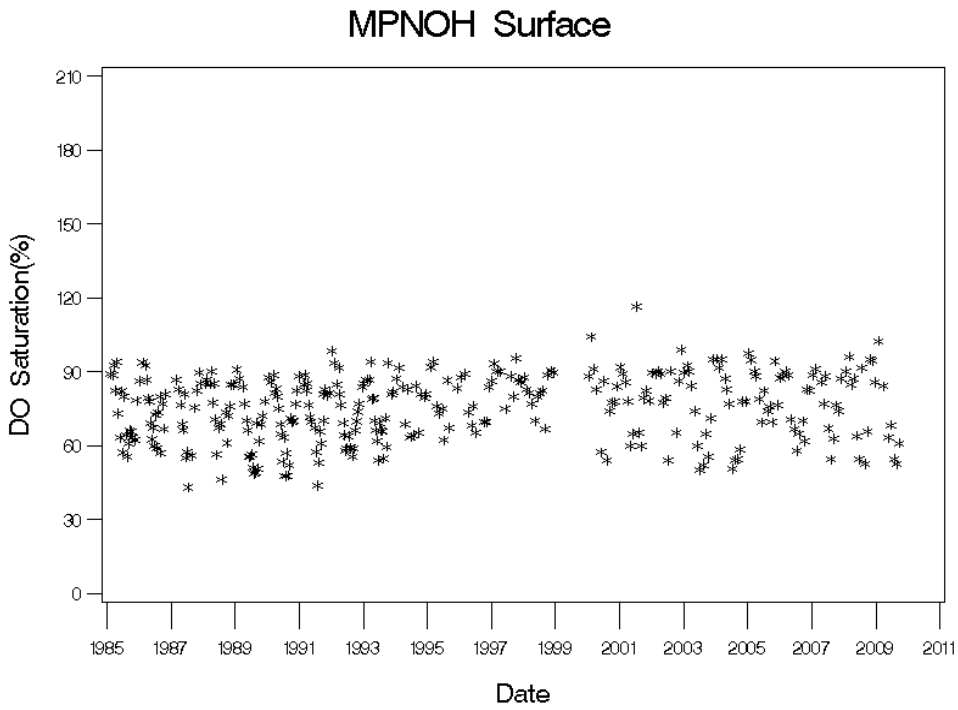
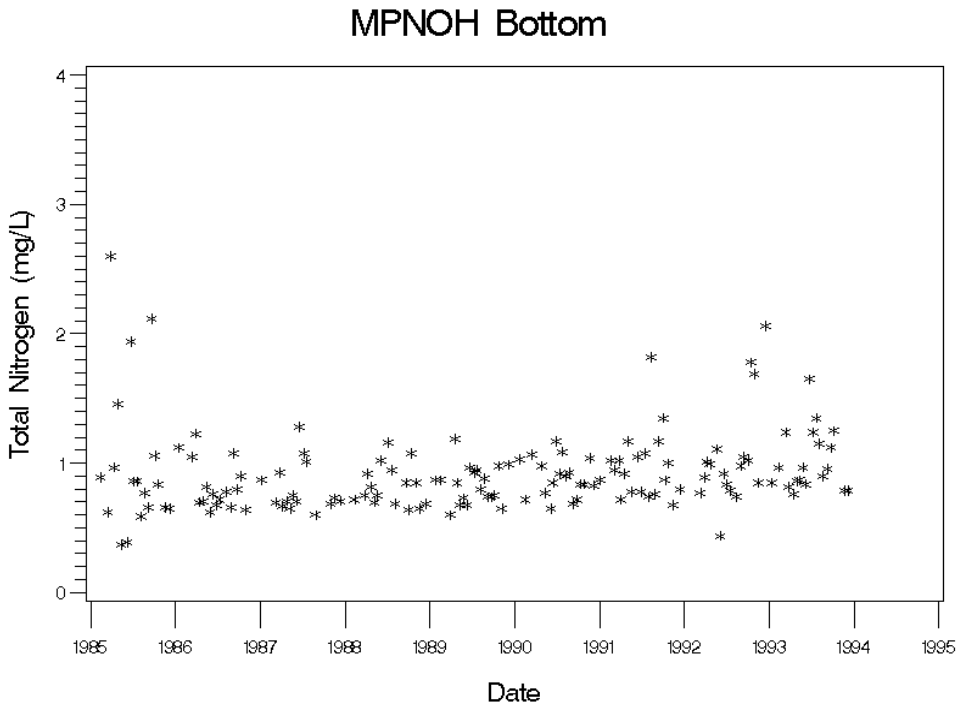


Figure 71. Scatterplot of surface DO saturation at segment MPNOH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

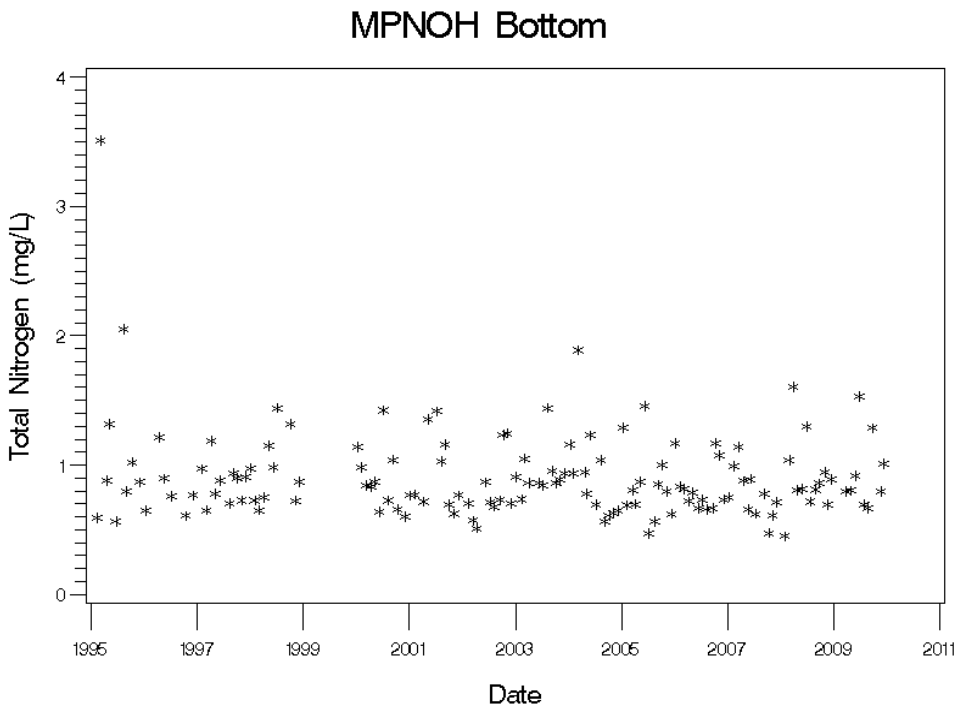
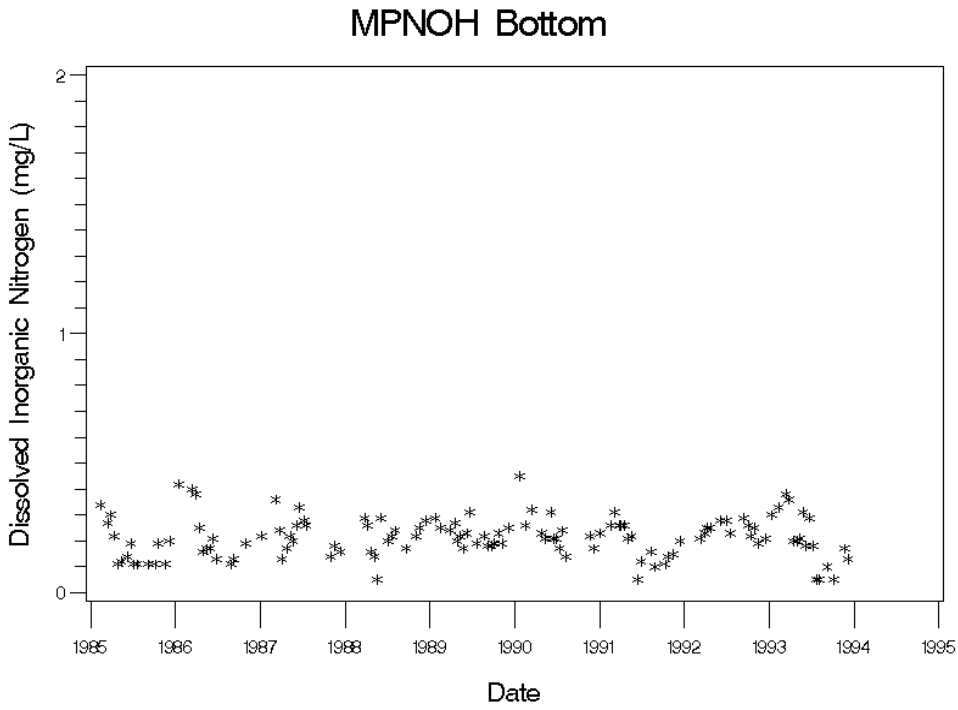


Figure 72. Scatterplots of bottom total nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

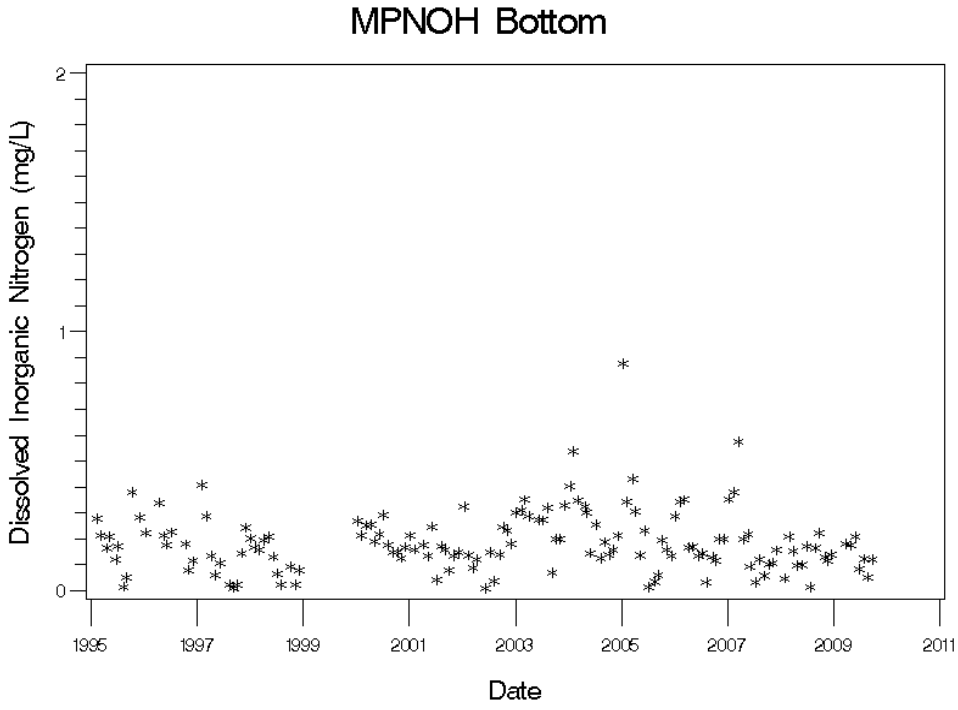
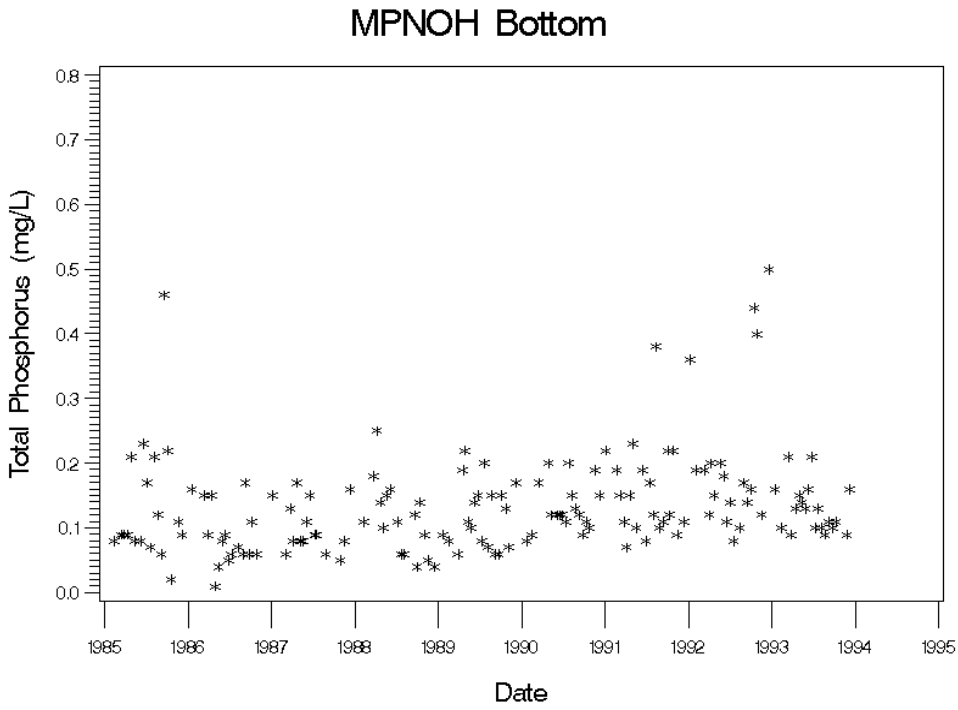


Figure 73. Scatterplots of bottom dissolved inorganic nitrogen at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

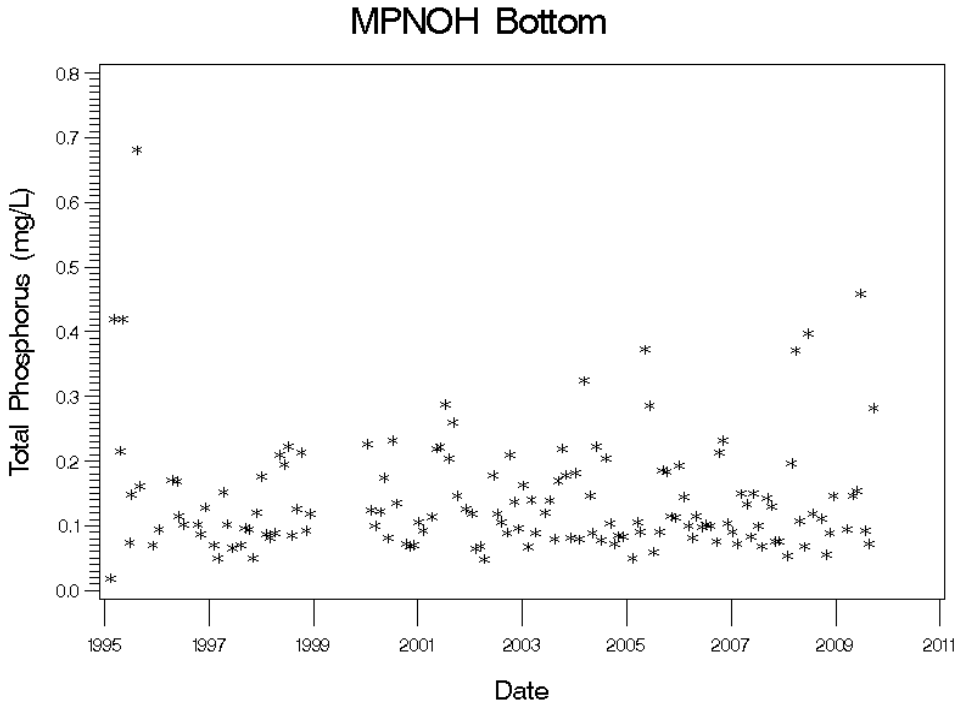
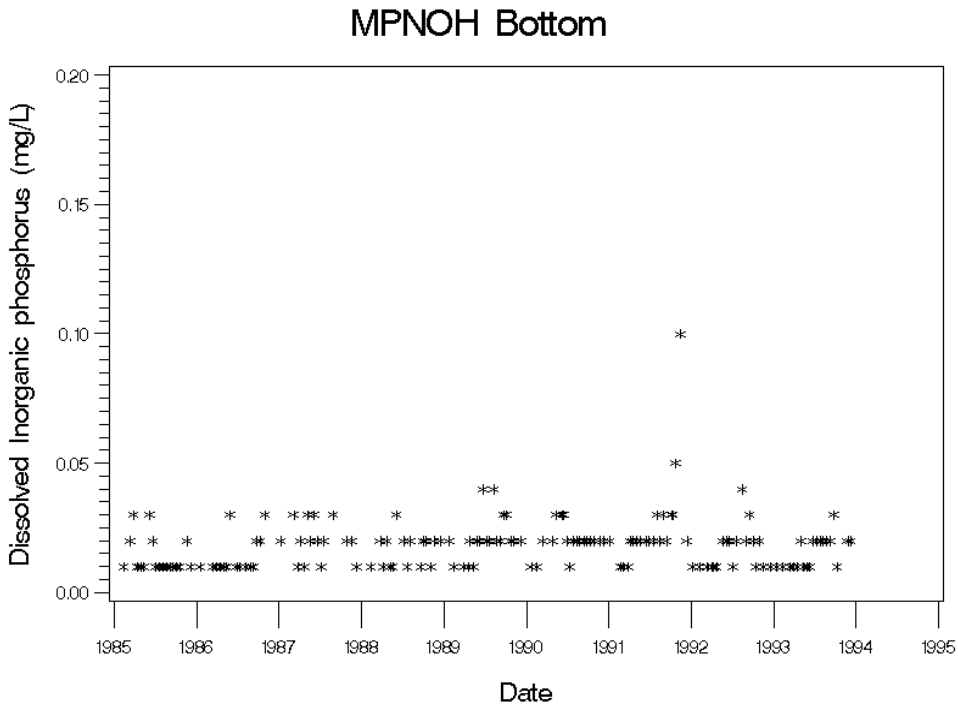


Figure 74. Scatterplots of bottom total phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

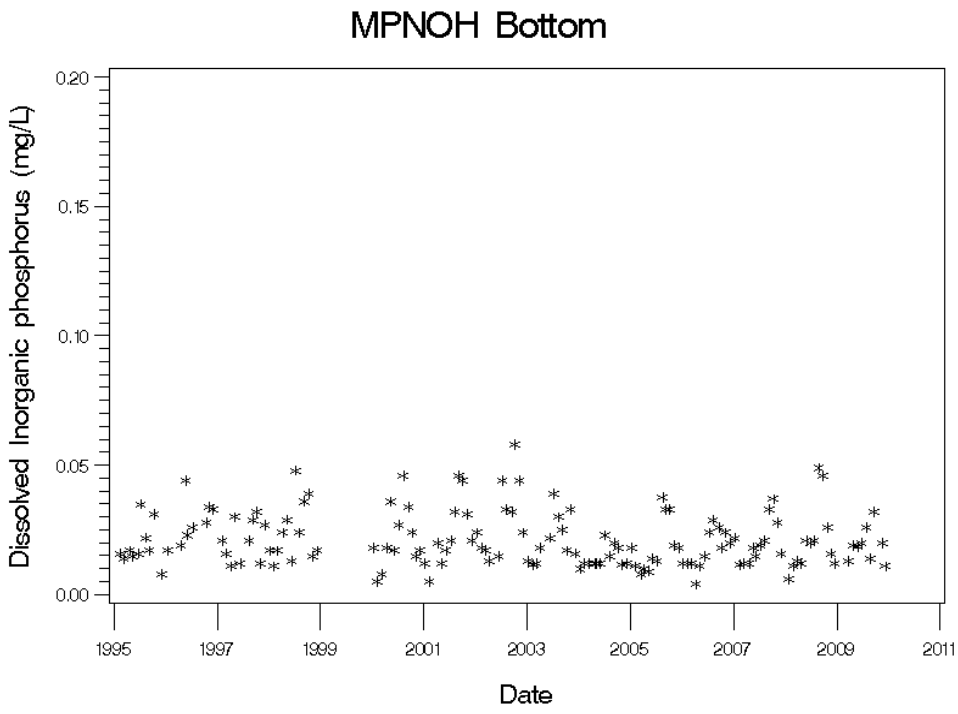


Figure 75. Scatterplots of bottom dissolved inorganic phosphorus at segment MPNOH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

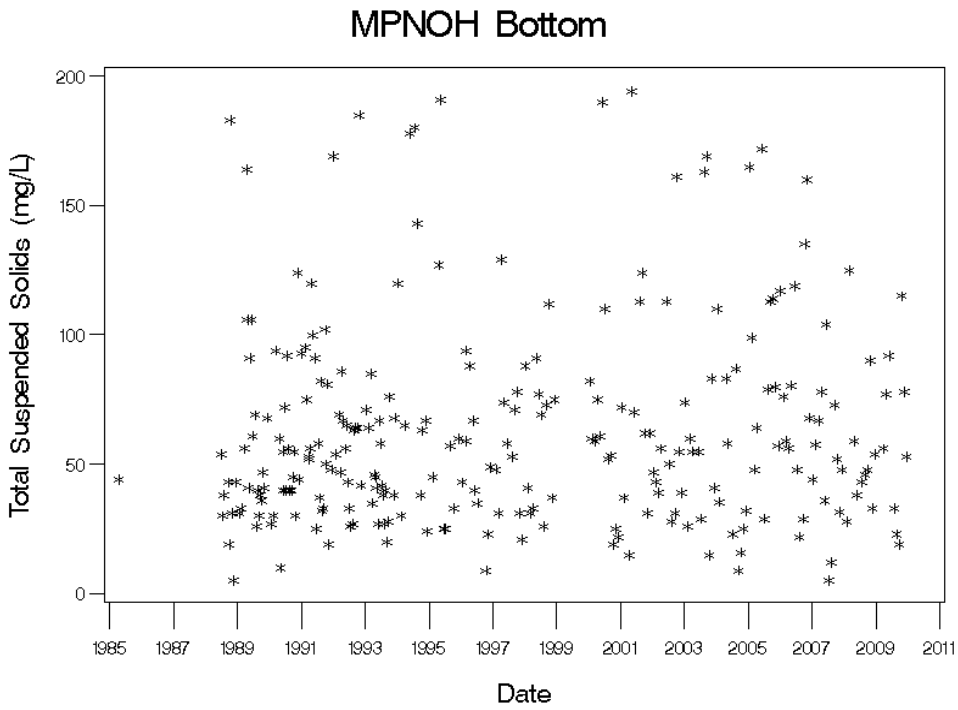


Figure 76. Scatterplot of bottom total suspended solids at segment MPNOH during the period 1985 to 2009.

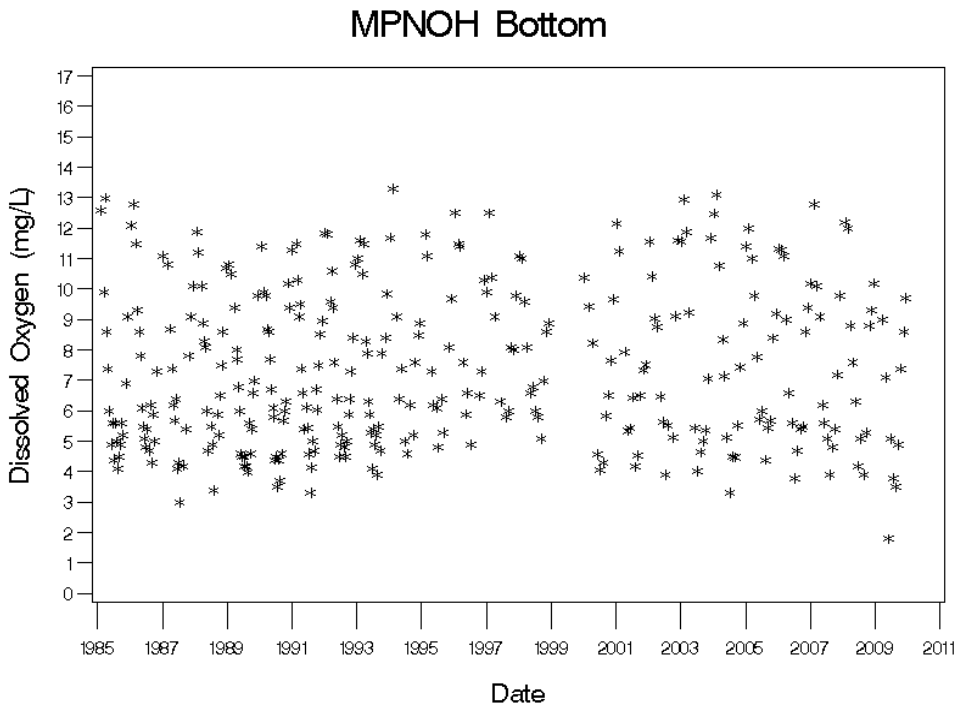


Figure 77. Scatterplot of bottom dissolved oxygen at segment MPNOH during the period 1985 to 2009.

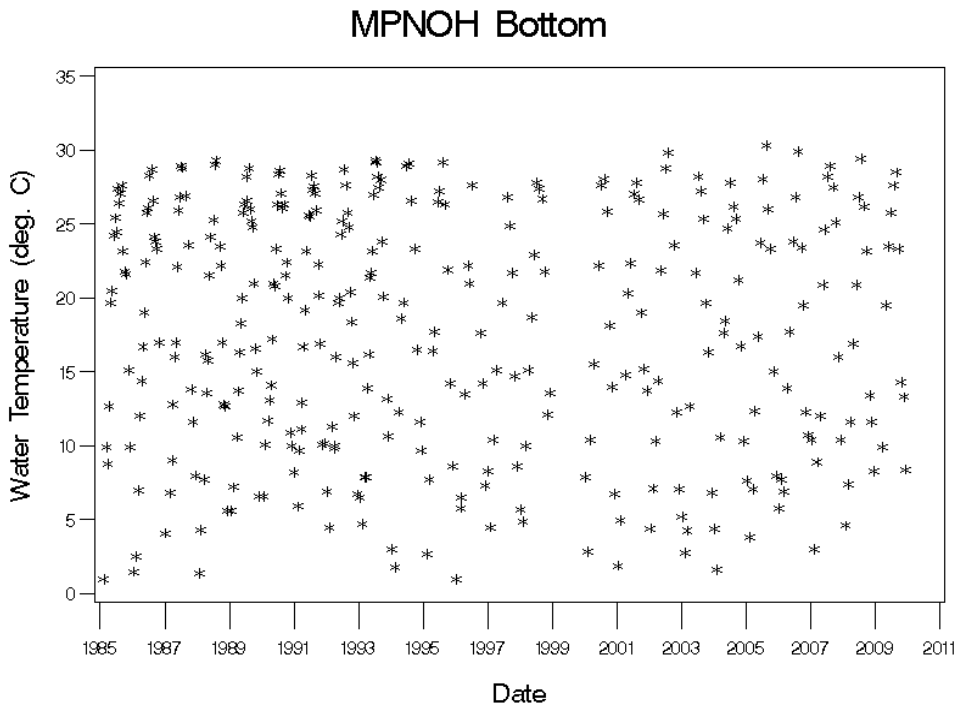


Figure 78. Scatterplot of bottom water temperature at segment MPNOH during the period 1985 to 2009.

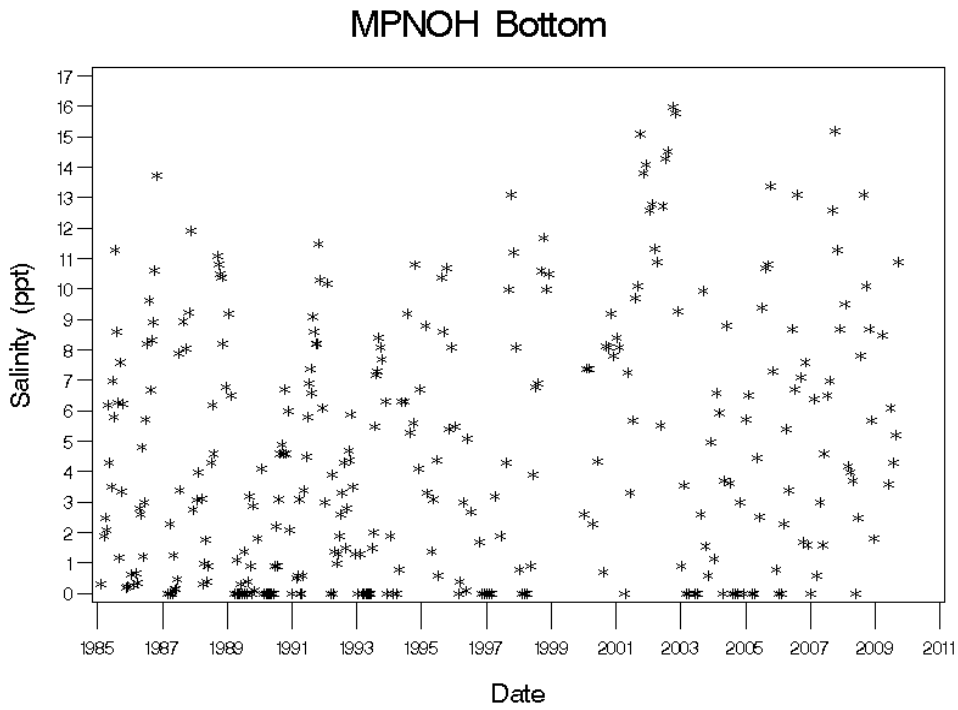


Figure 79. Scatterplot of bottom salinity at segment MPNOH during the period 1985 to 2009.

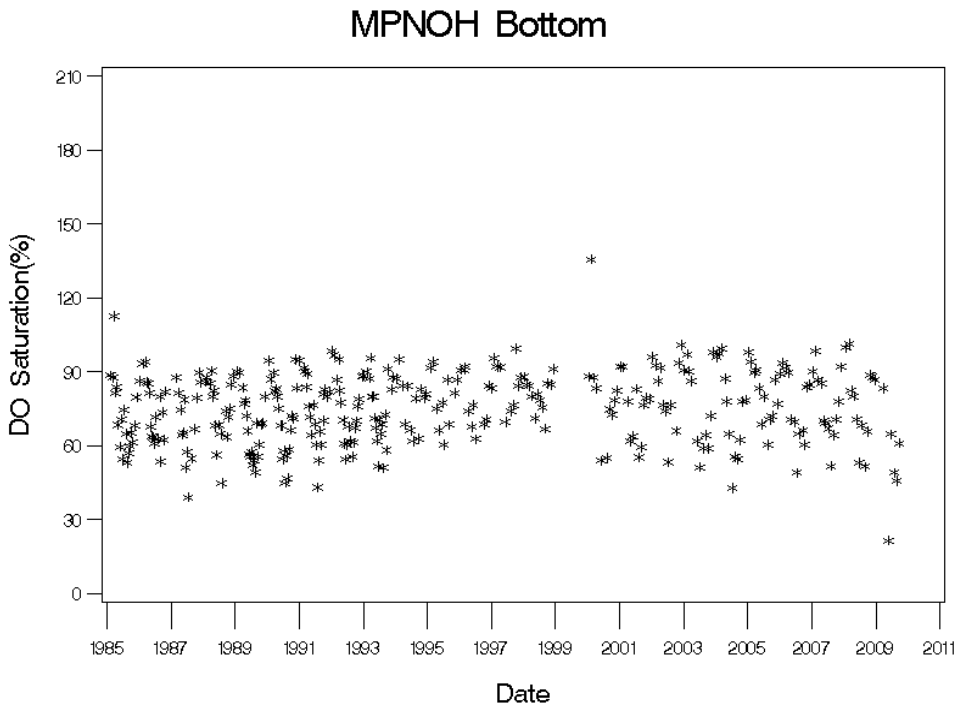
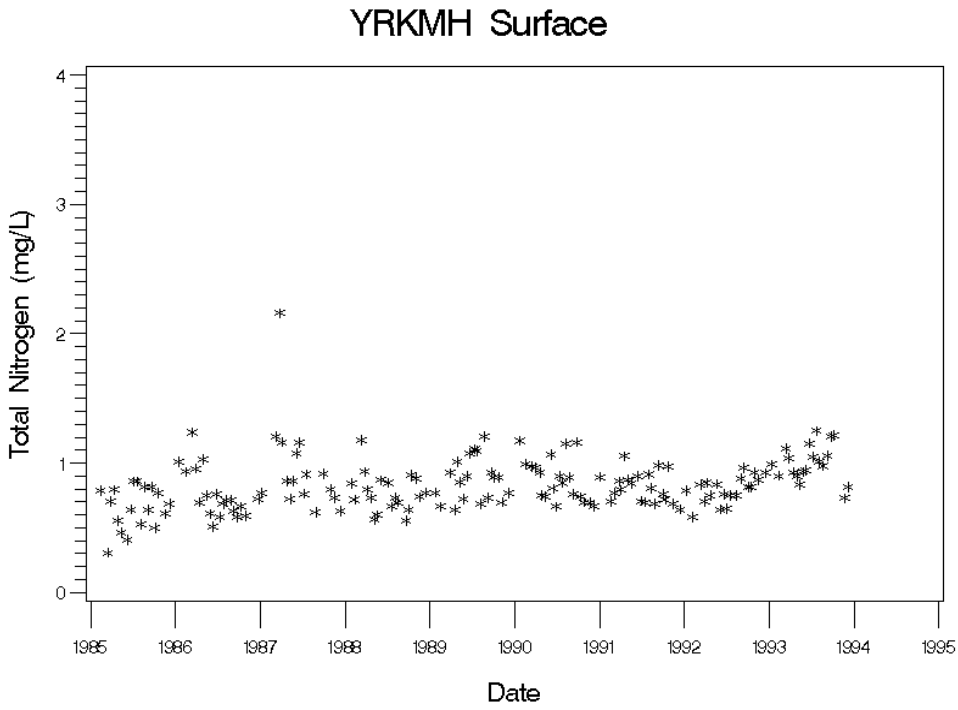


Figure 80. Scatterplot of bottom DO saturation at segment MPNOH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

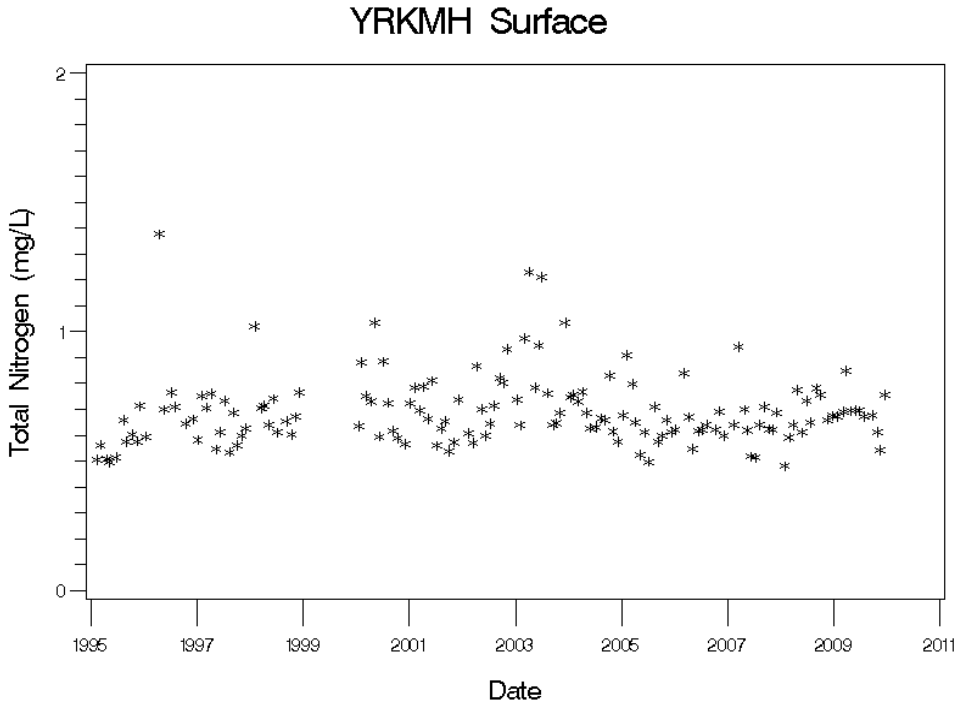
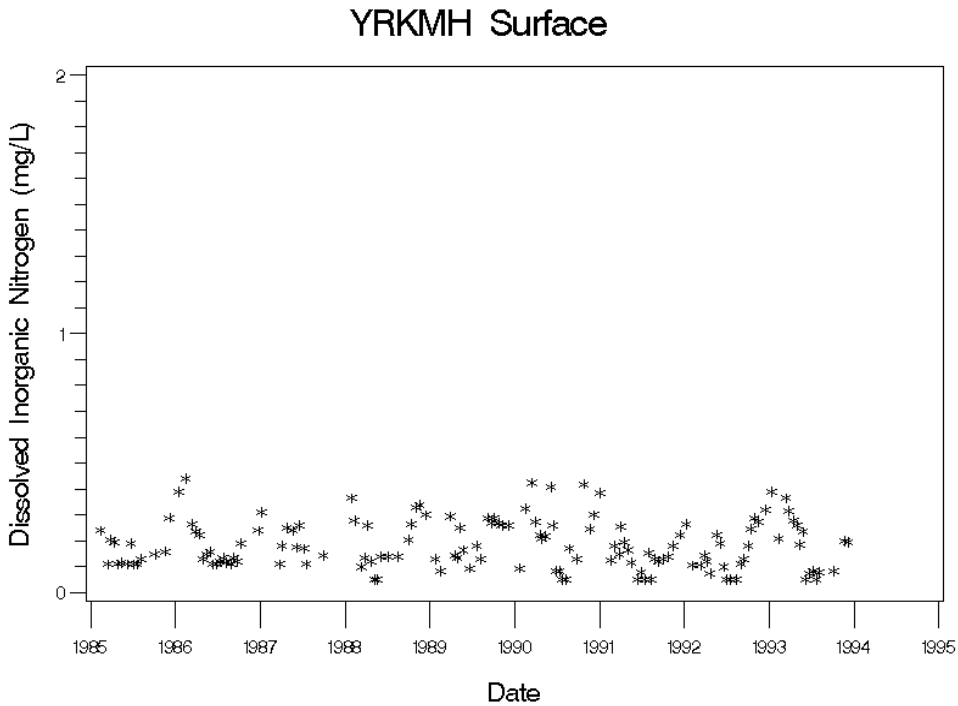


Figure 81. Scatterplots of surface total nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

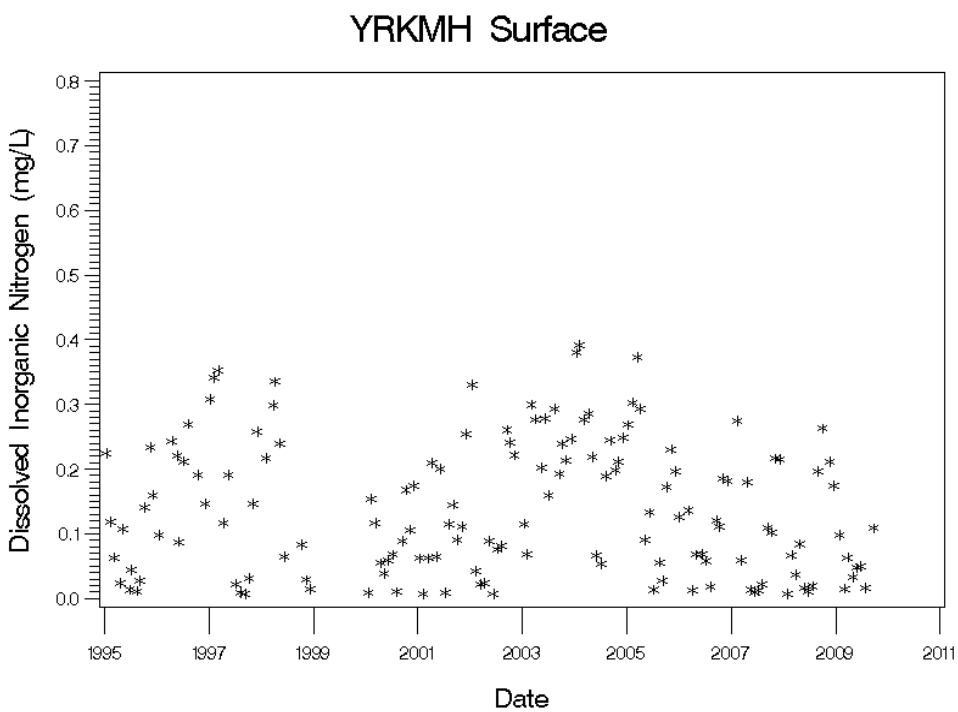
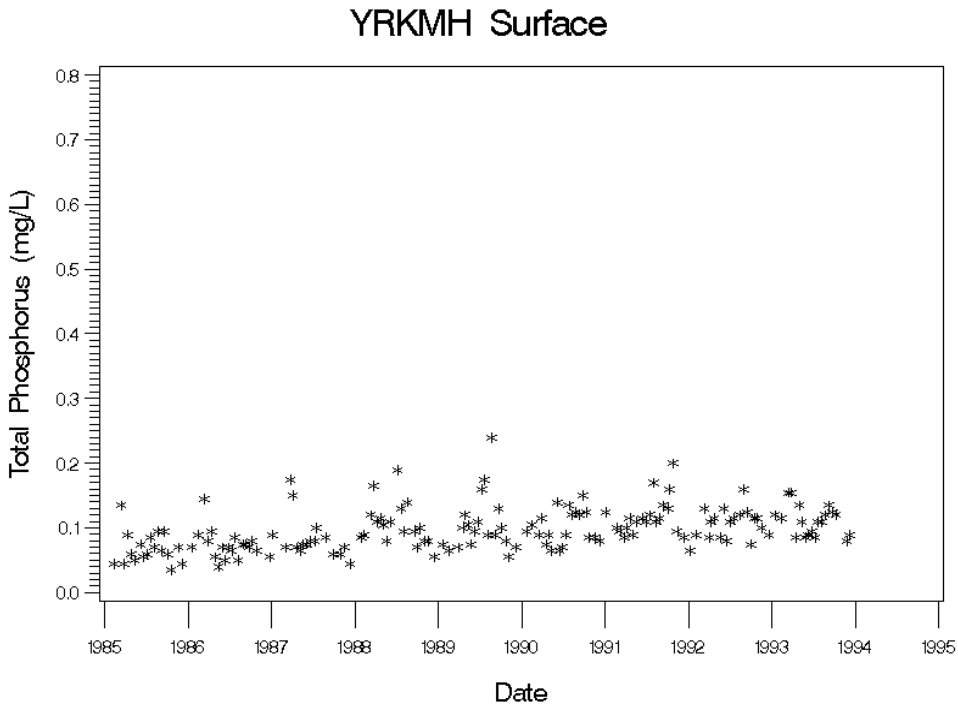


Figure 82. Scatterplots of surface dissolved inorganic nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

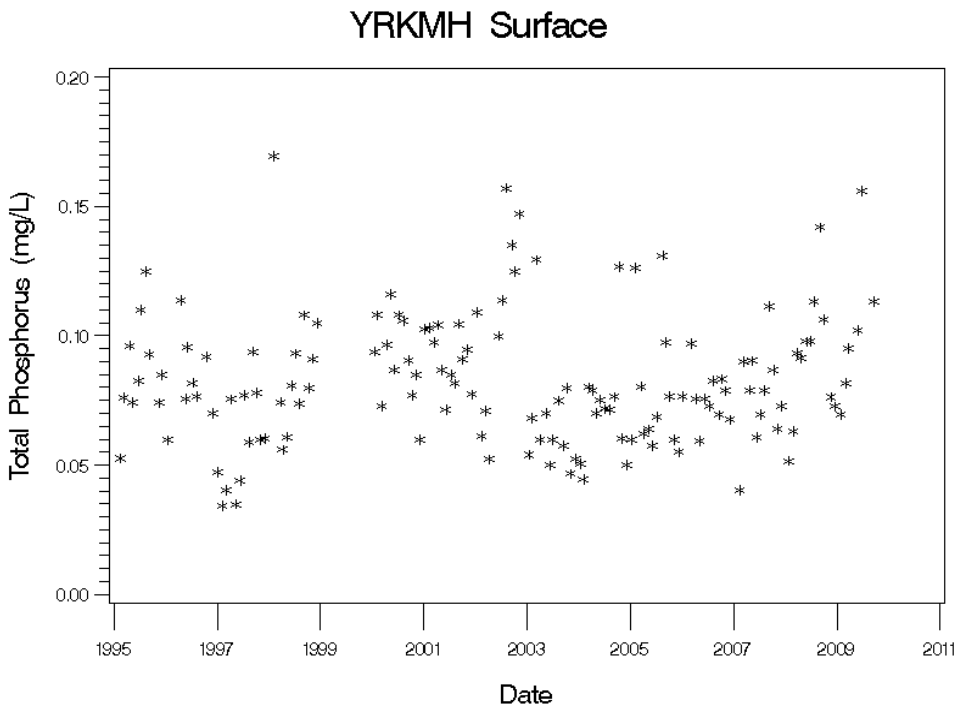
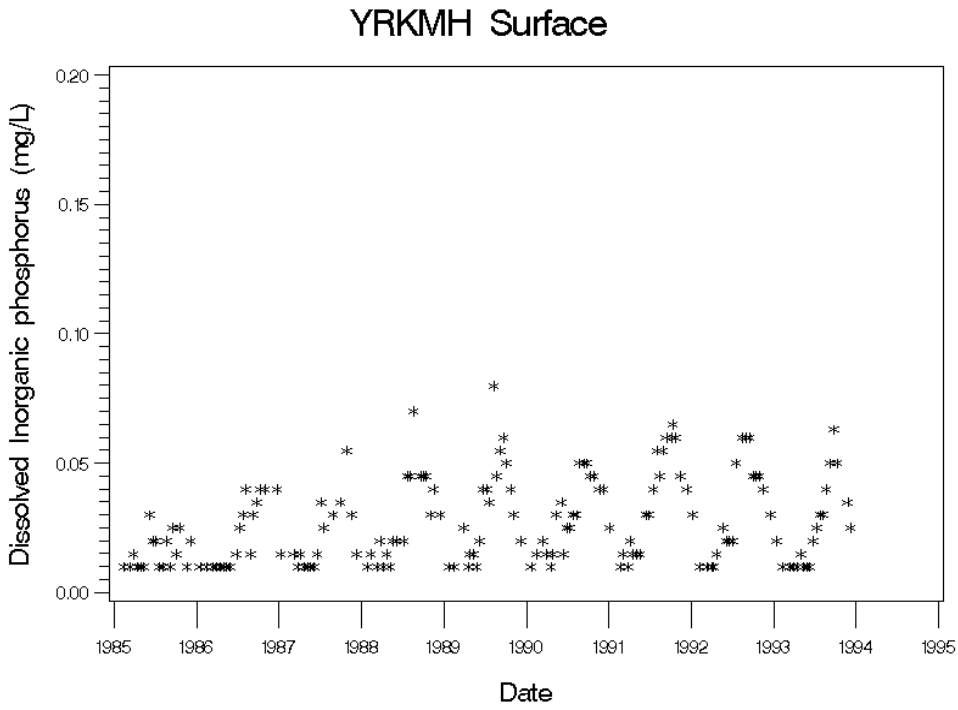


Figure 83. Scatterplots of surface total phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

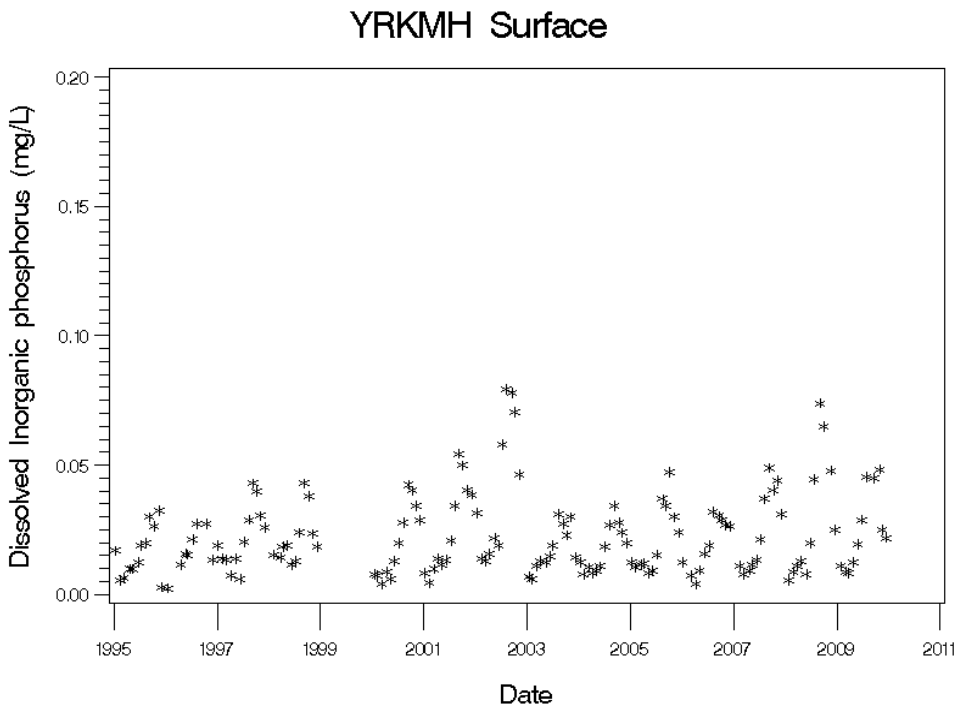


Figure 84. Scatterplots of surface dissolved inorganic phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

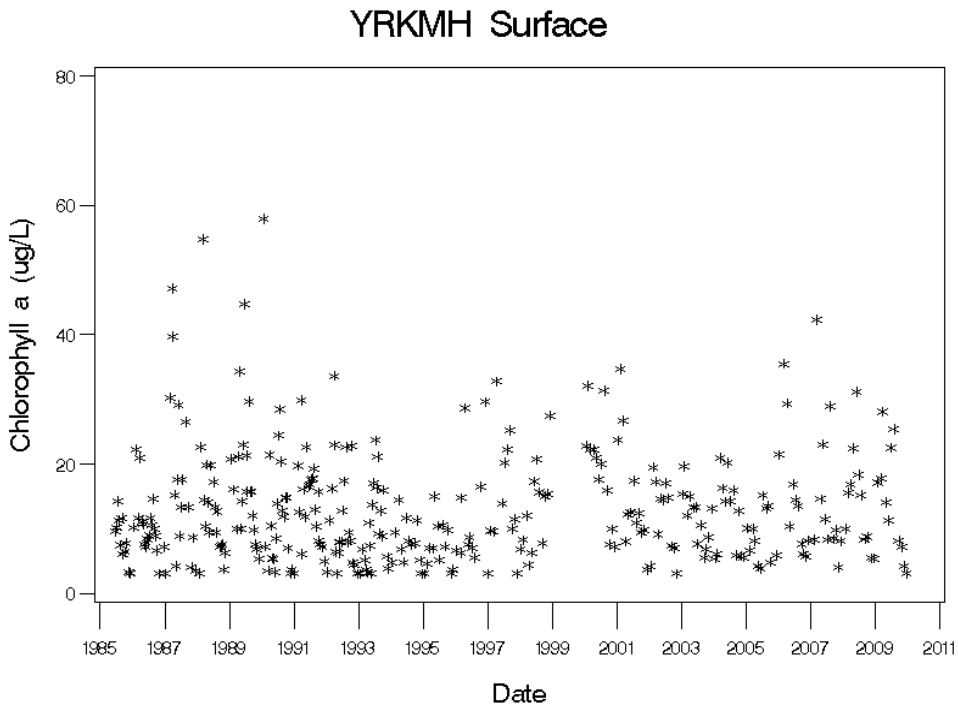


Figure 85. Scatterplot of surface chlorphyll a at segment YRKMH during the period 1985 to 2009.

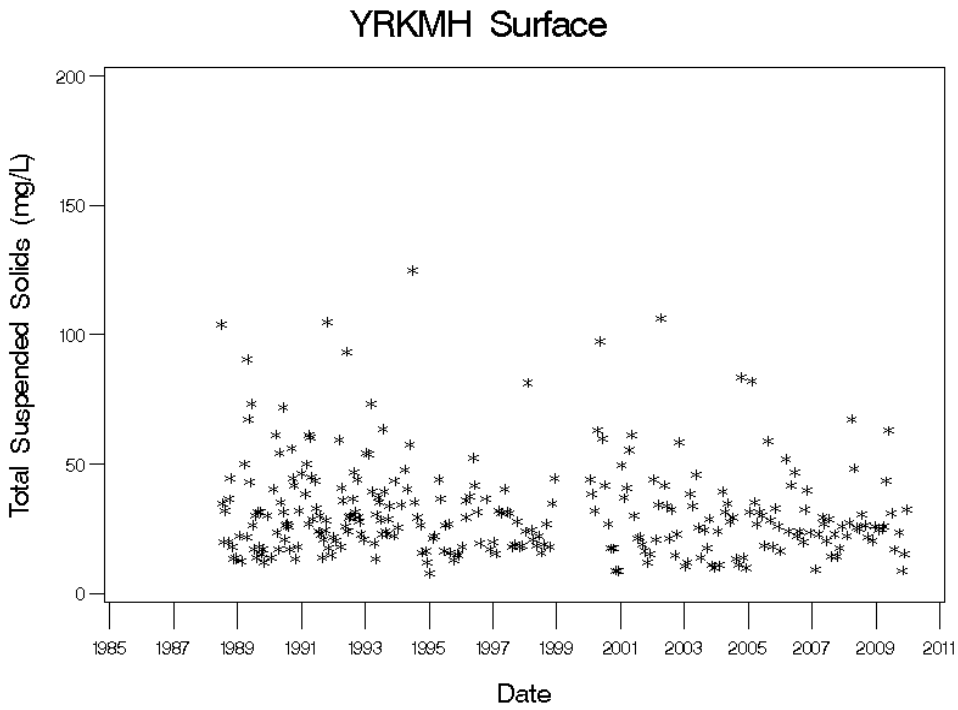


Figure 86. Scatterplot of surface total suspended solids at segment YRKMH during the period 1985 to 2009.

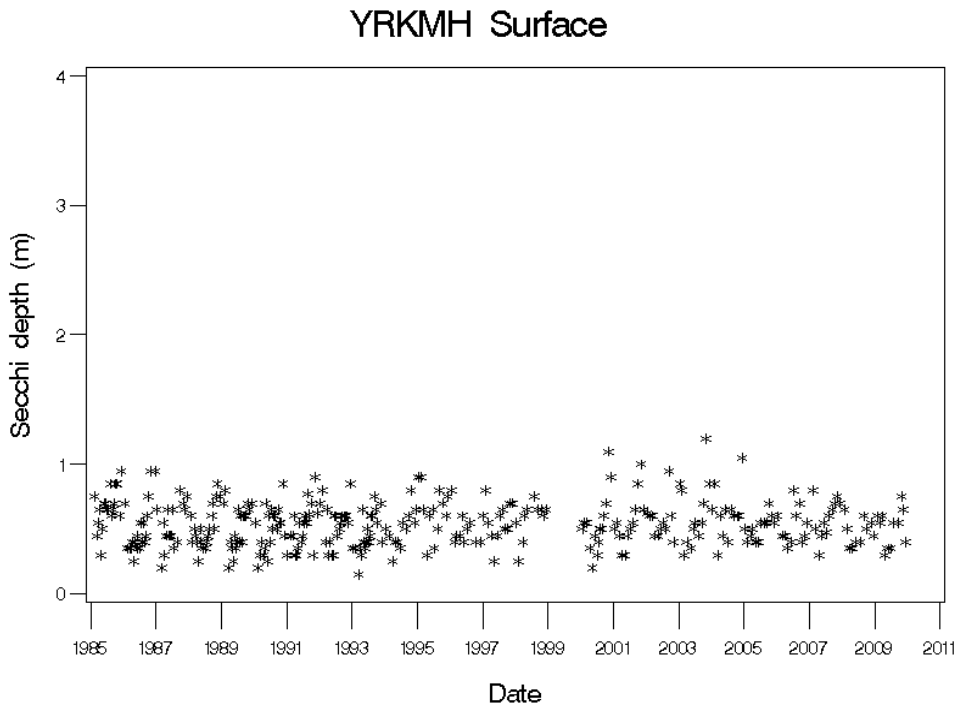


Figure 87. Scatterplot of secchi depth at segment YRKMH during the period 1985 to 2009.

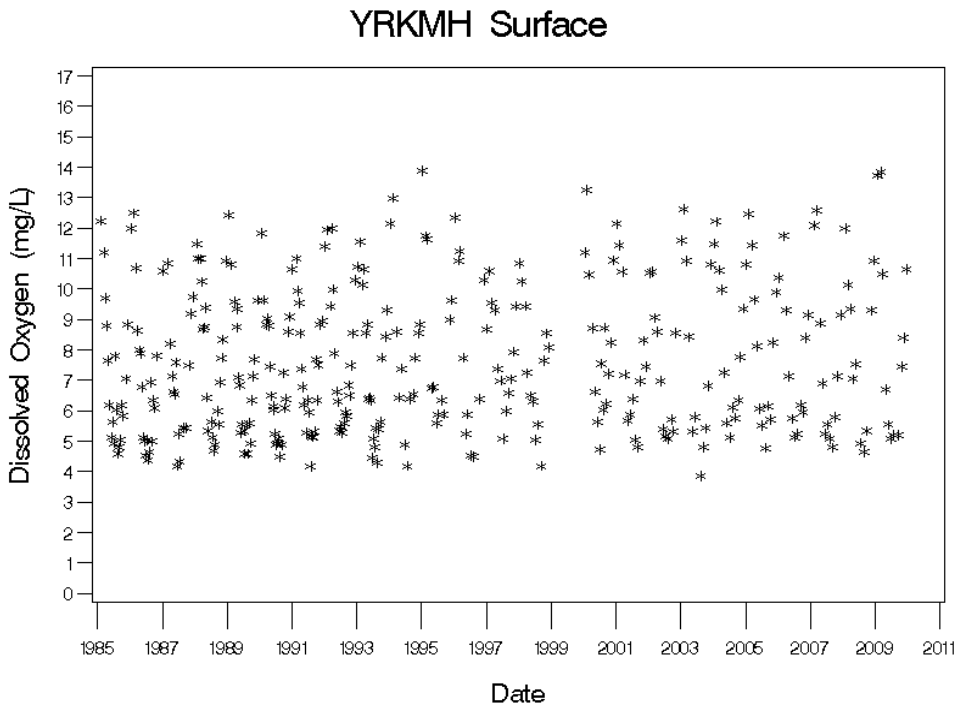


Figure 88. Scatterplot of surface dissolved oxygen at segment YRKMH during the period 1985 to 2009.

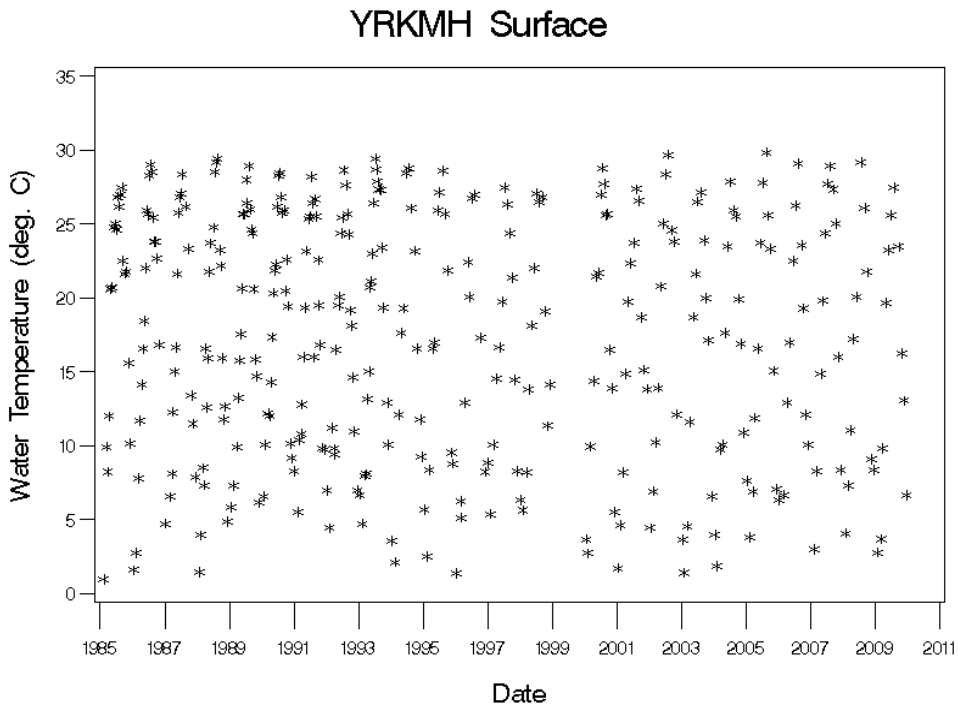


Figure 89. Scatterplot of surface water temperature at segment YRKMH during the period 1985 to 2009.

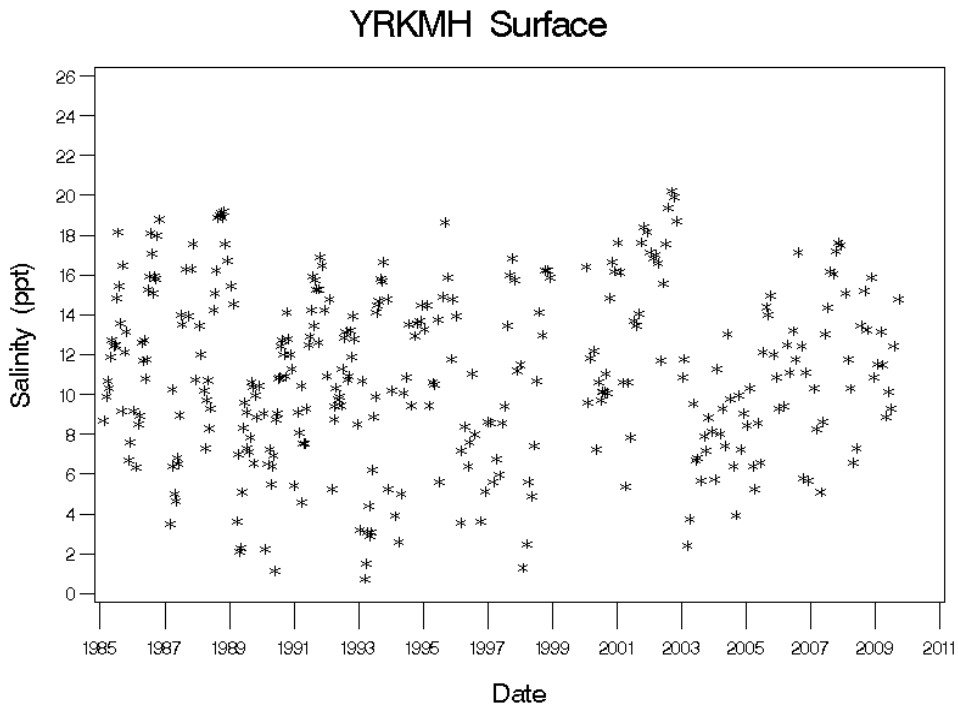


Figure 90. Scatterplot of surface salinity at segment YRKMH during the period 1985 to 2009.

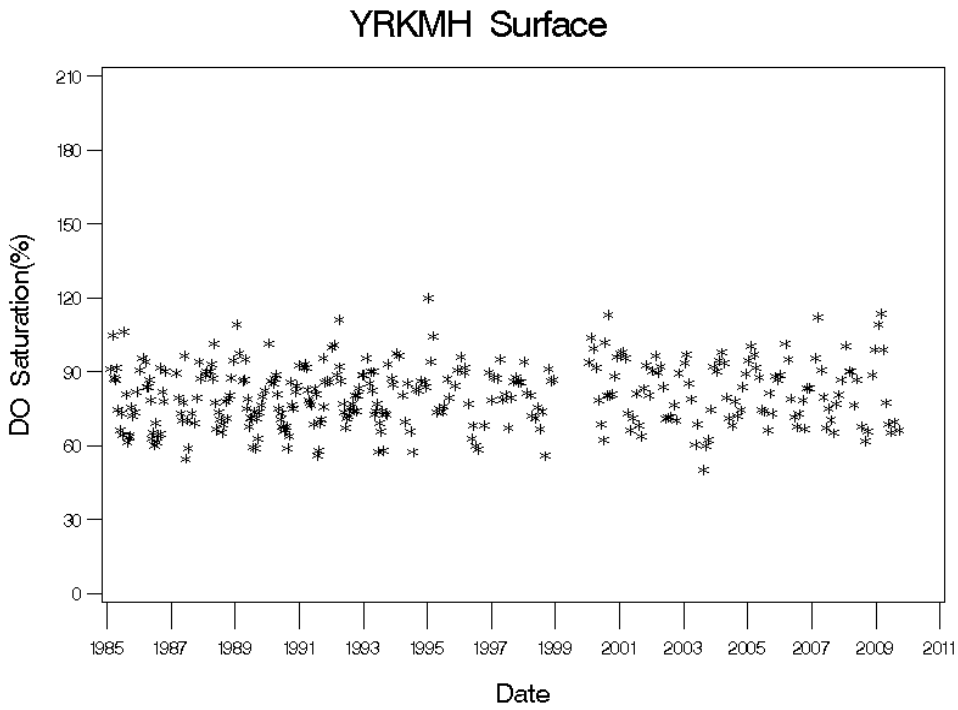
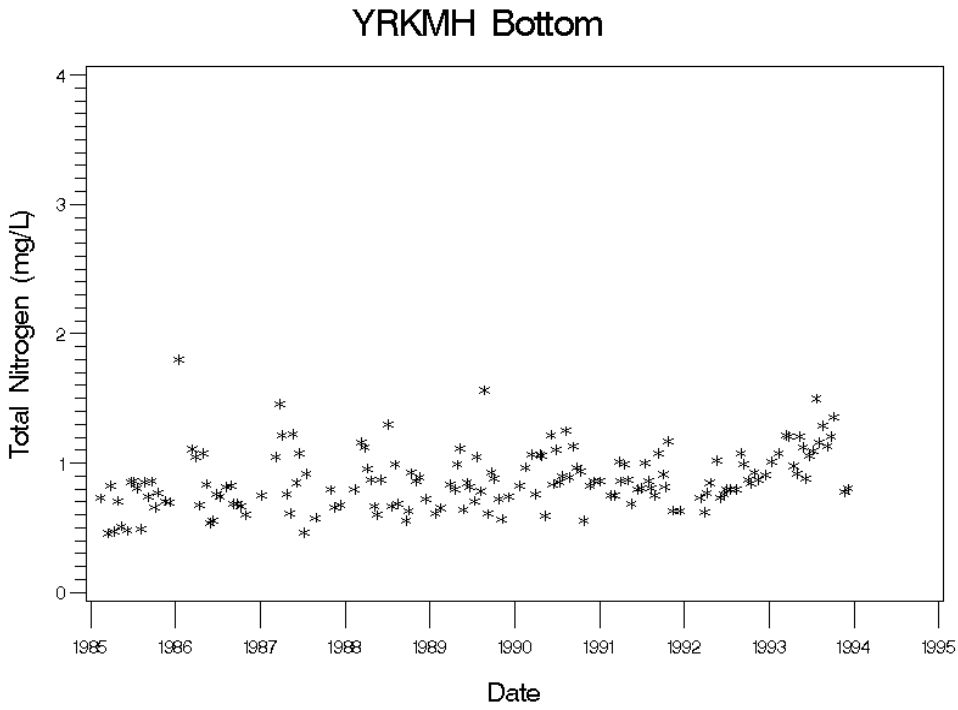


Figure 91. Scatterplot of surface DO saturation at segment YRKMH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

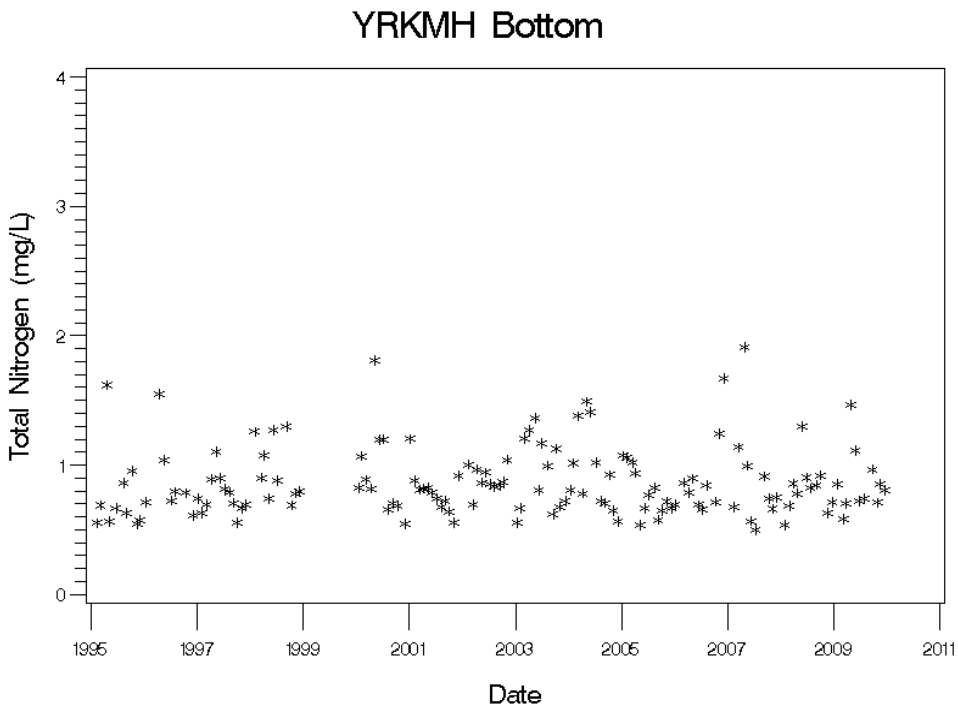
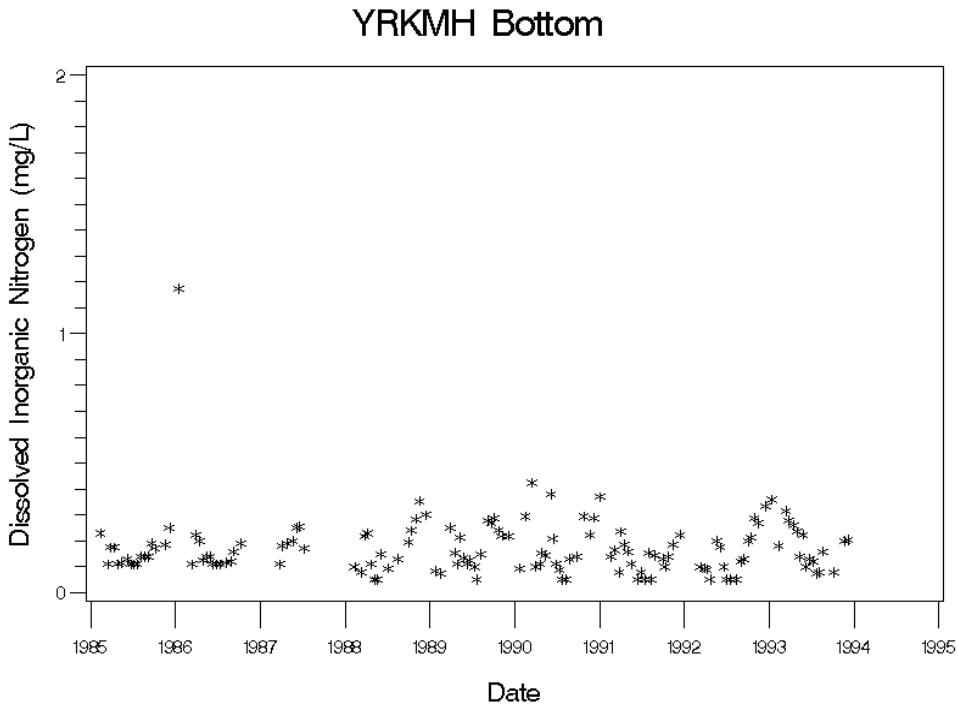


Figure 92. Scatterplots of bottom total nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

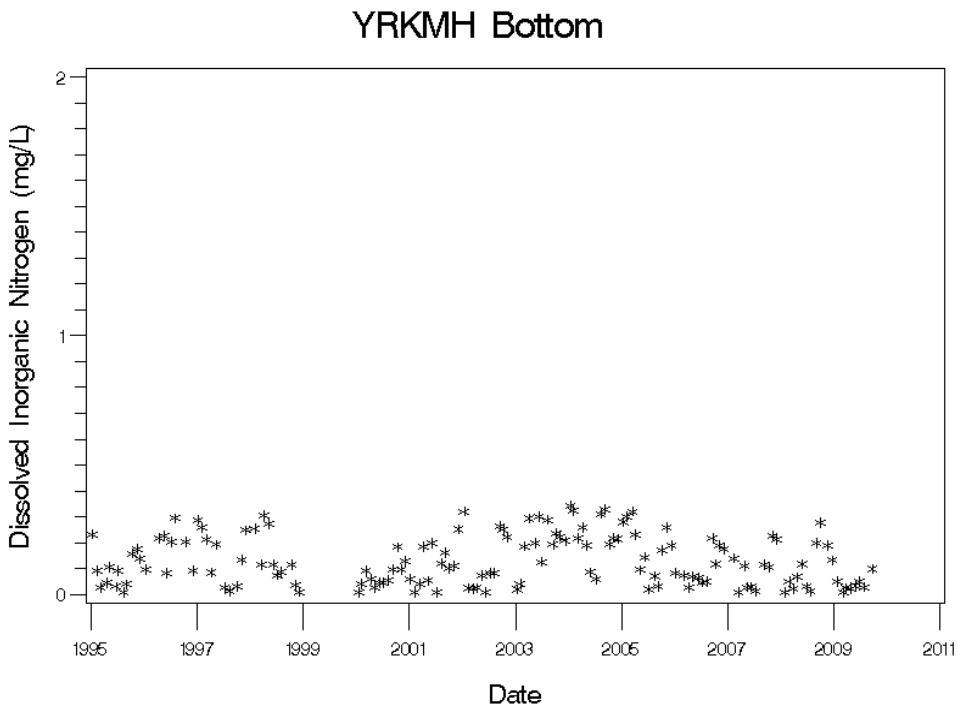
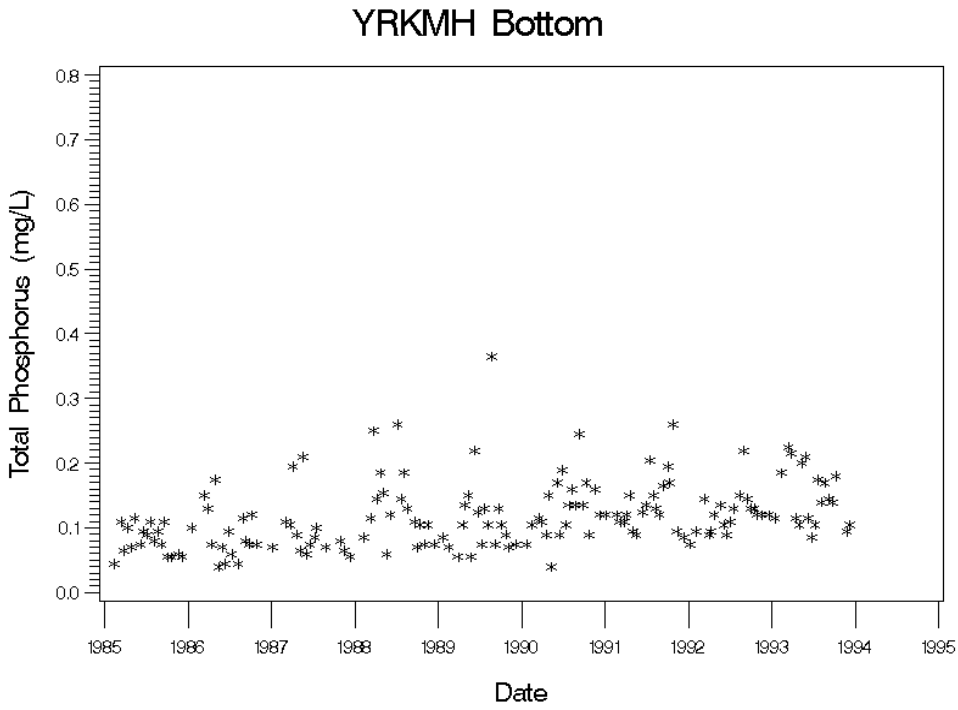


Figure 93. Scatterplots of bottom dissolved inorganic nitrogen at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

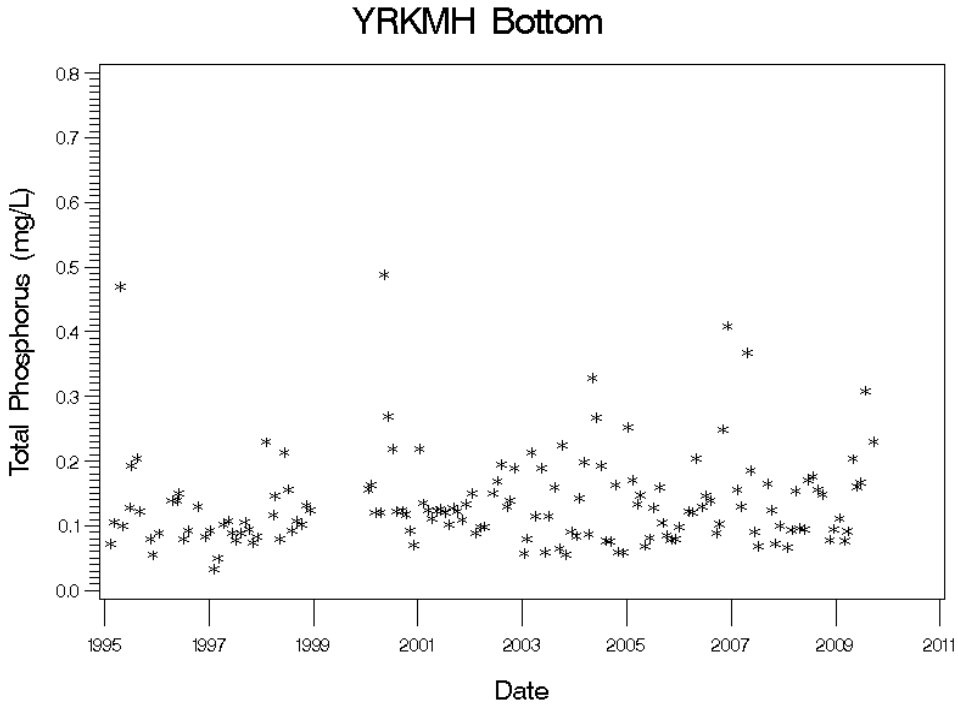
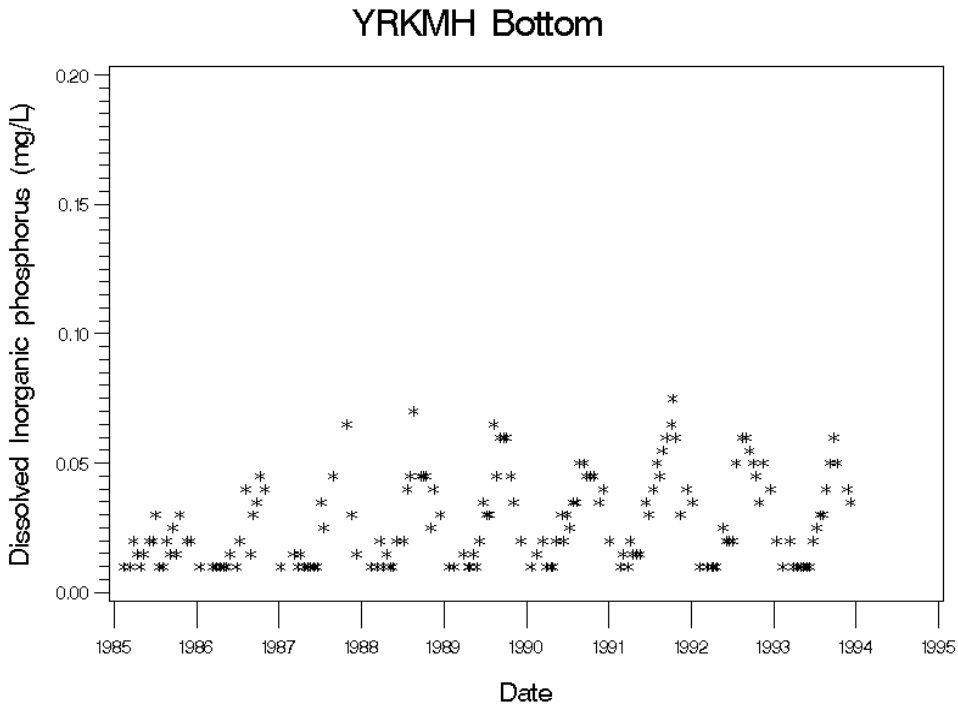


Figure 94. Scatterplots of bottom total phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

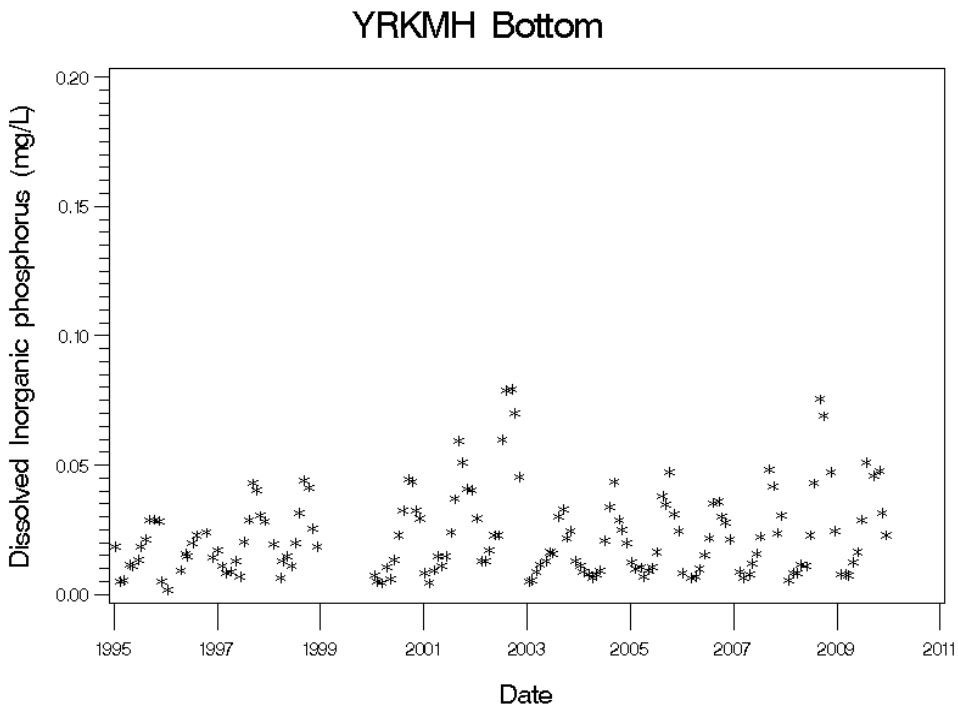


Figure 95. Scatterplots of bottom dissolved inorganic phosphorus at segment YRKMH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

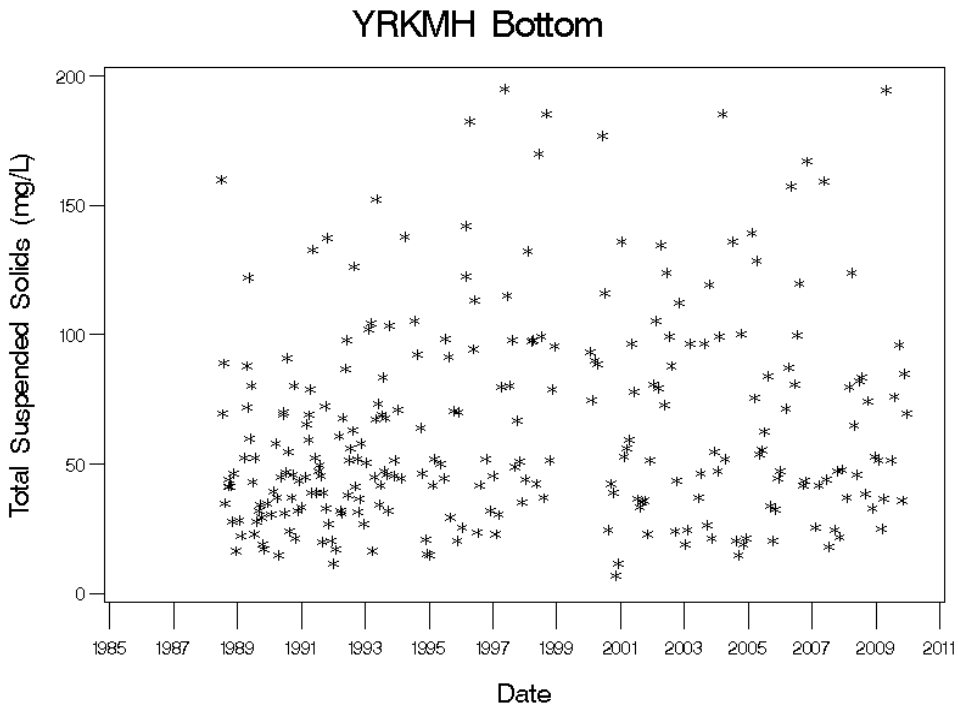


Figure 96. Scatterplot of bottom total suspended solids at segment YRKMH during the period 1985 to 2009.

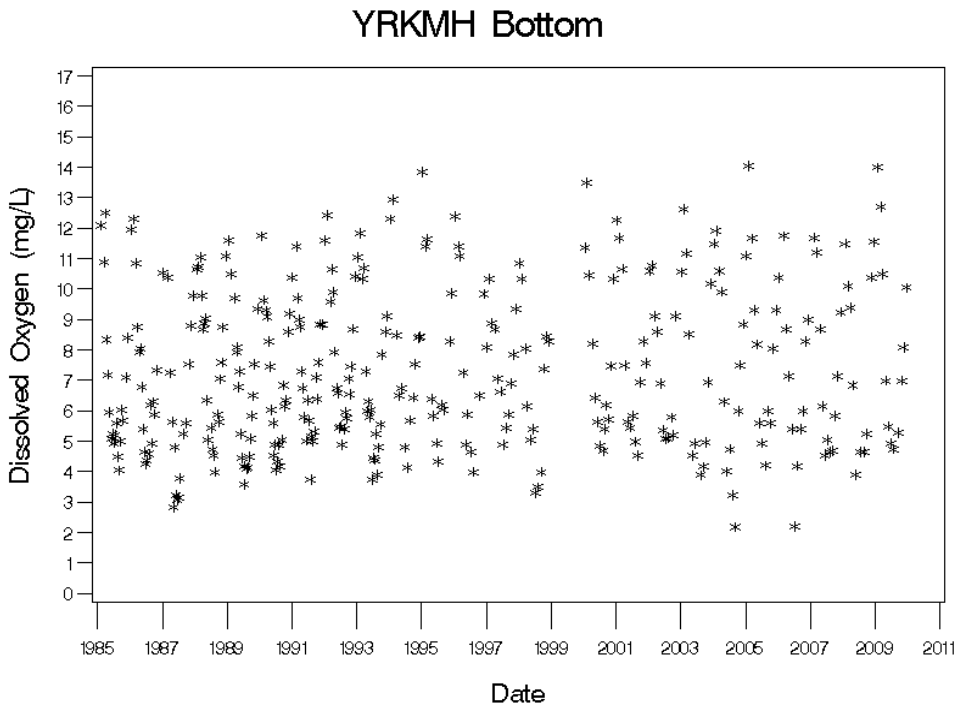


Figure 97. Scatterplot of bottom dissolved oxygen at segment YRKMH during the period 1985 to 2009.

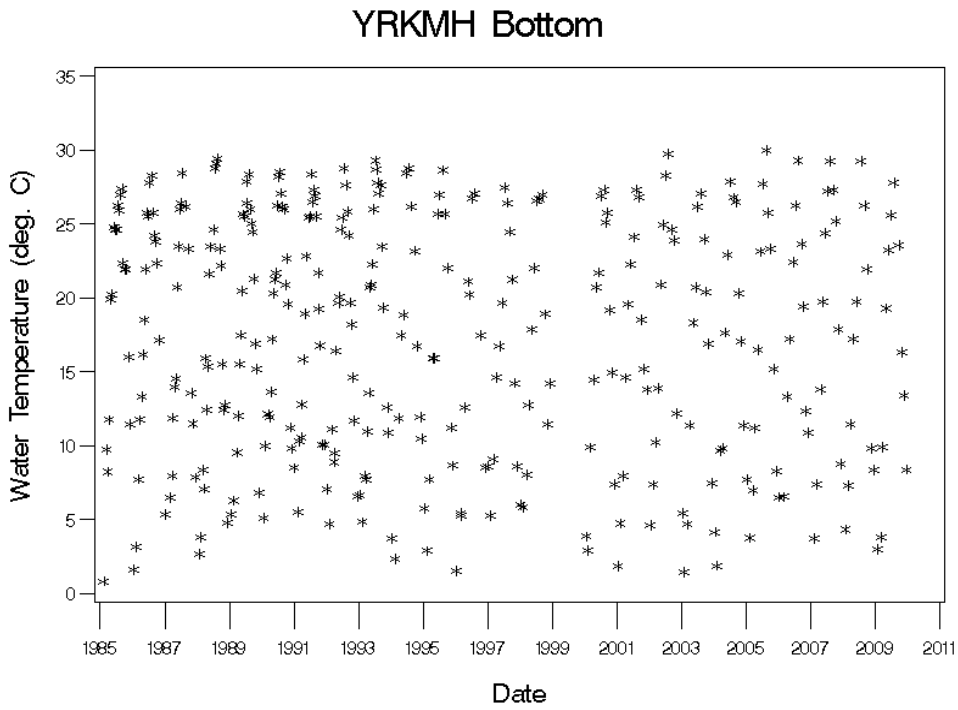


Figure 98. Scatterplot of bottom water temperature at segment YRKMH during the period 1985 to 2009.

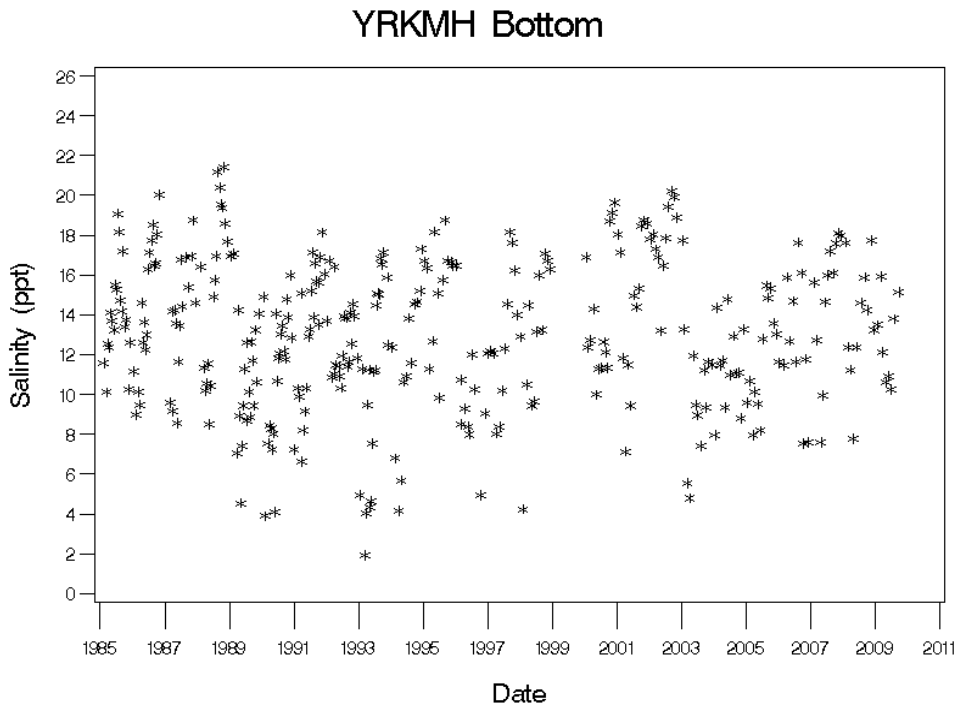


Figure 99. Scatterplot of bottom salinity at segment YRKMH during the period 1985 to 2009.

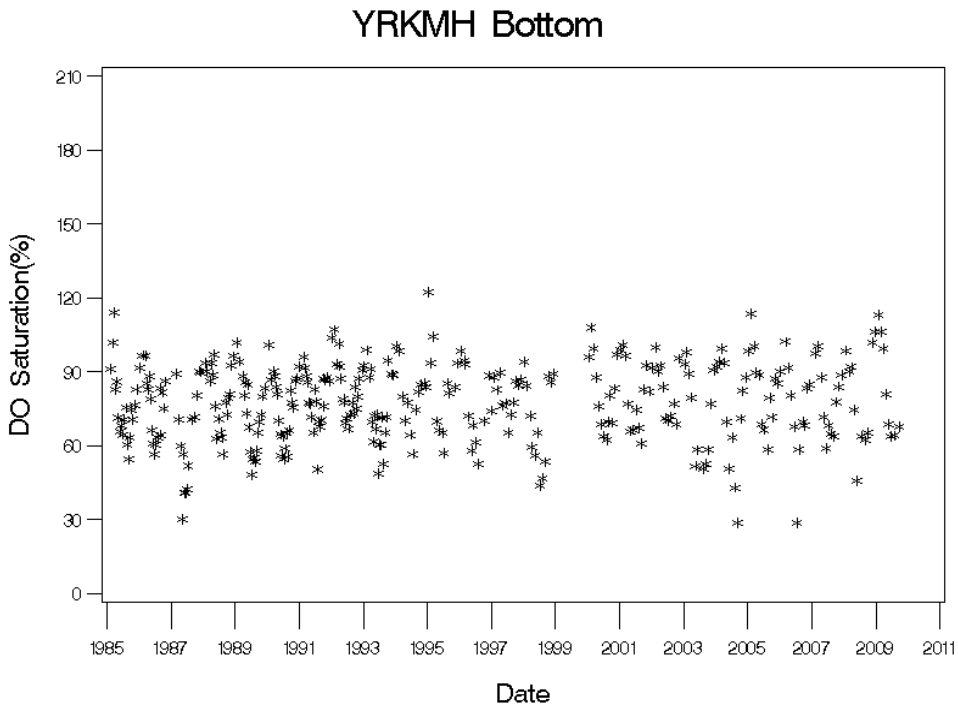
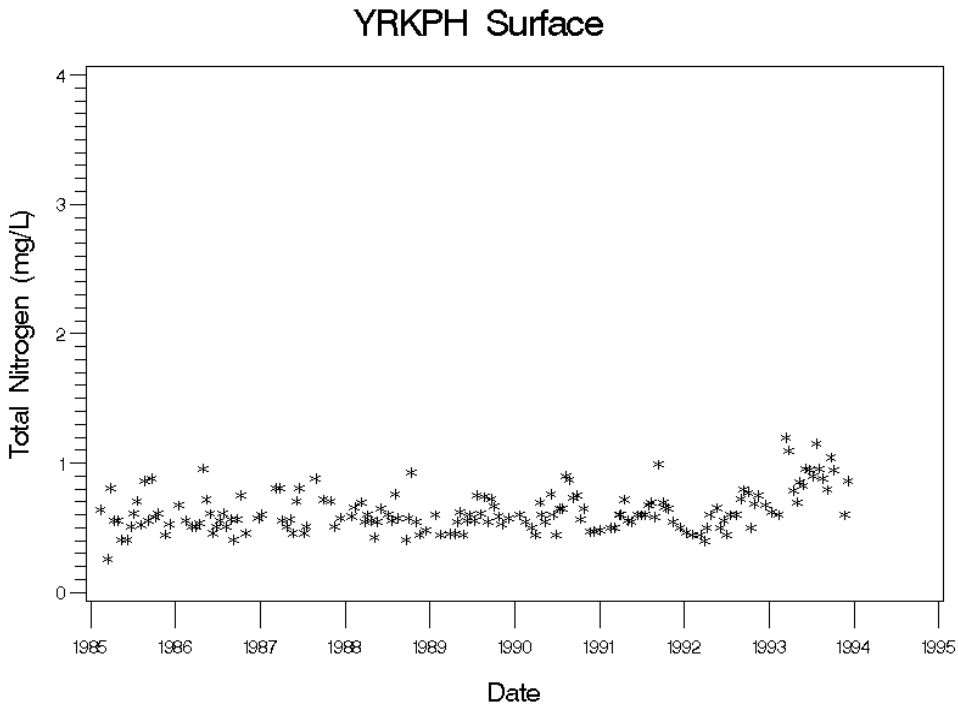


Figure 100. Scatterplot of bottom DO saturation at segment YRKMH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

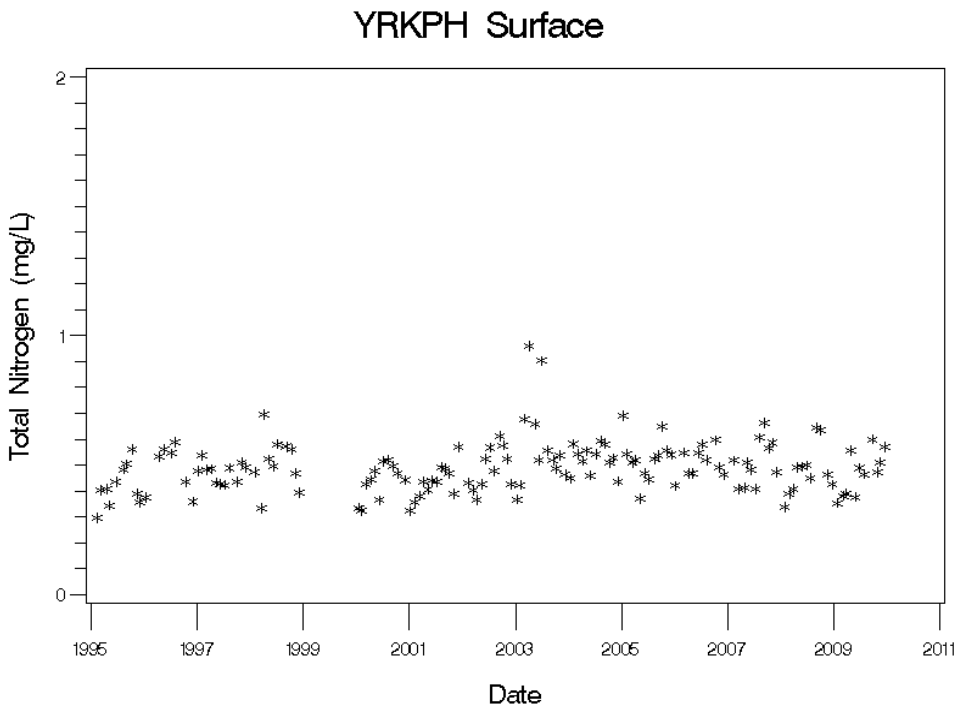
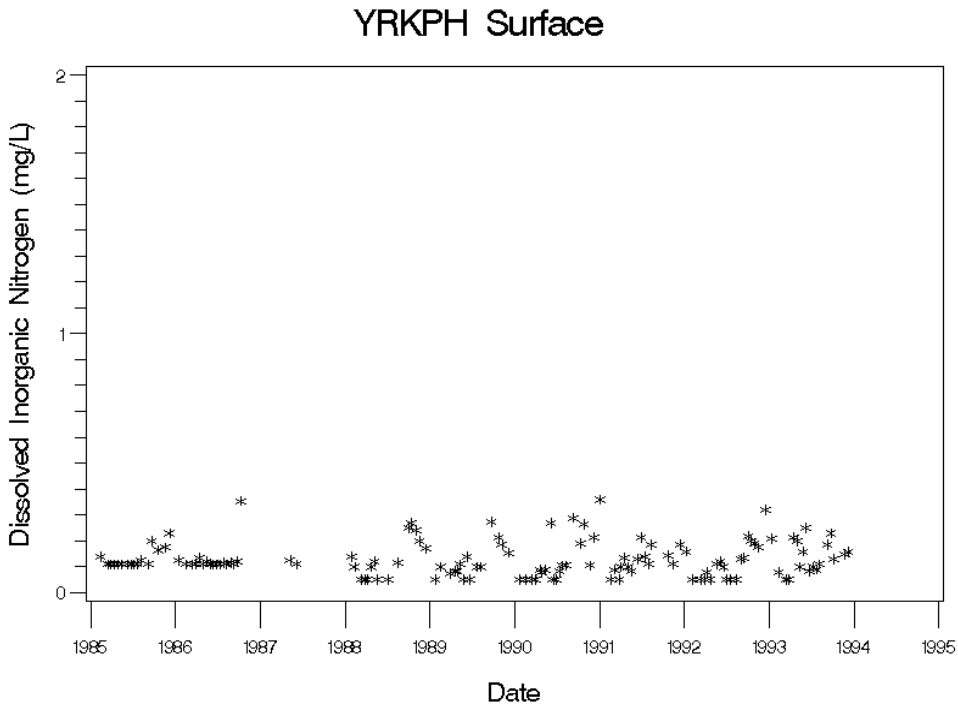


Figure 101. Scatterplots of surface total nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

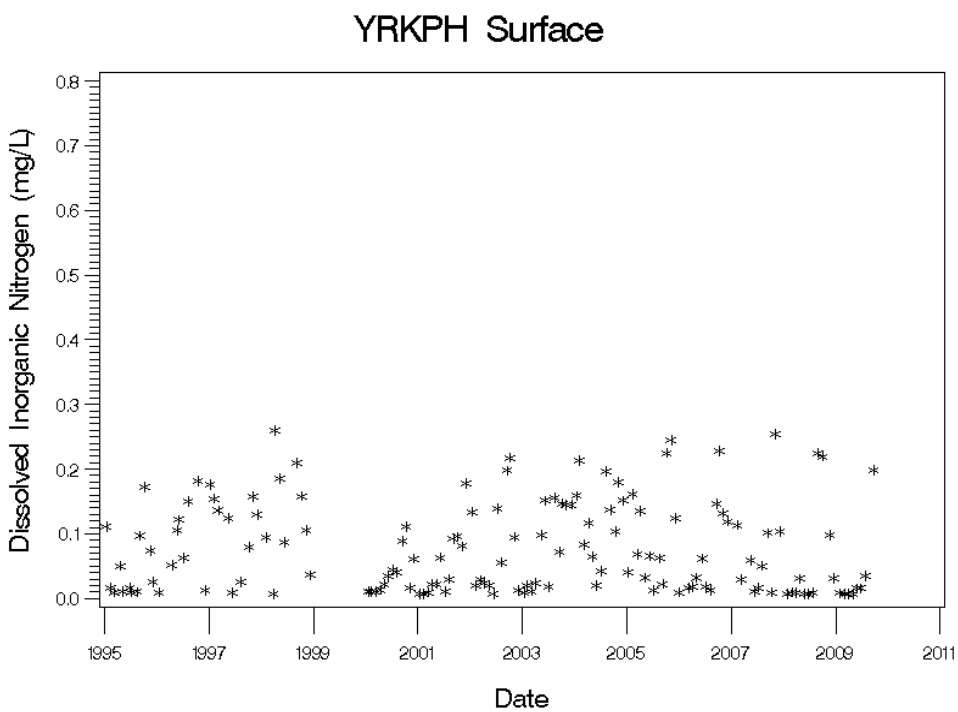
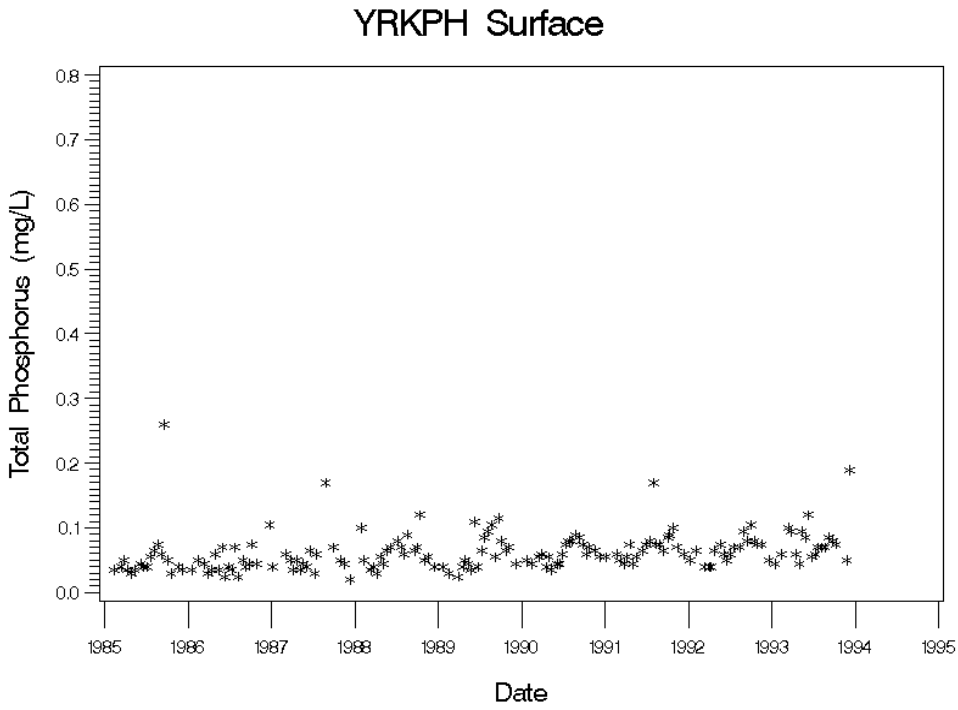


Figure 102. Scatterplots of surface dissolved inorganic nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

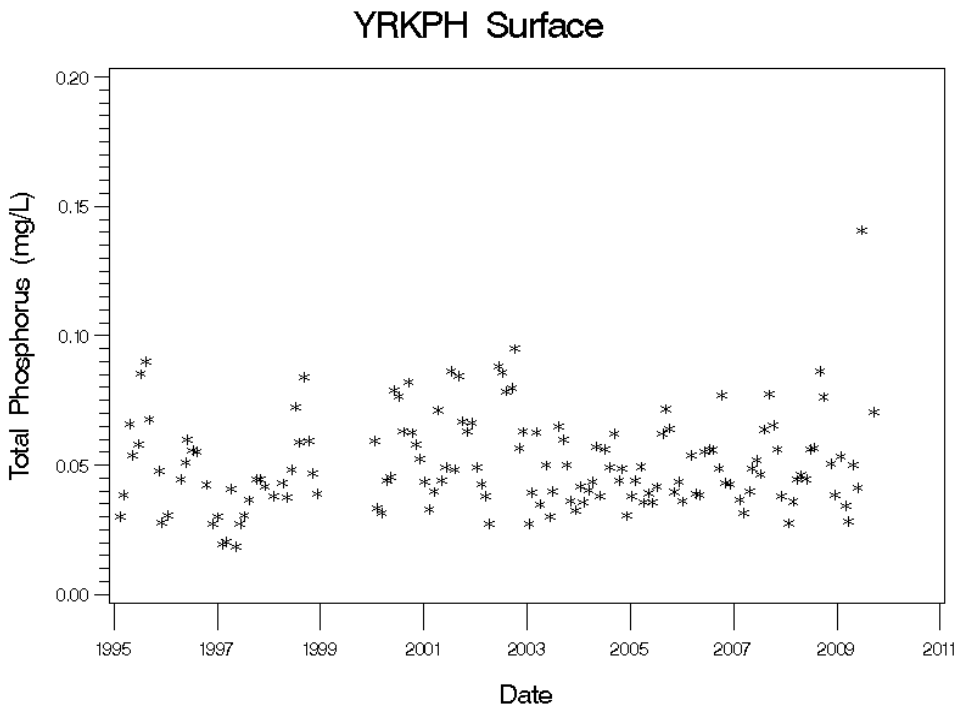
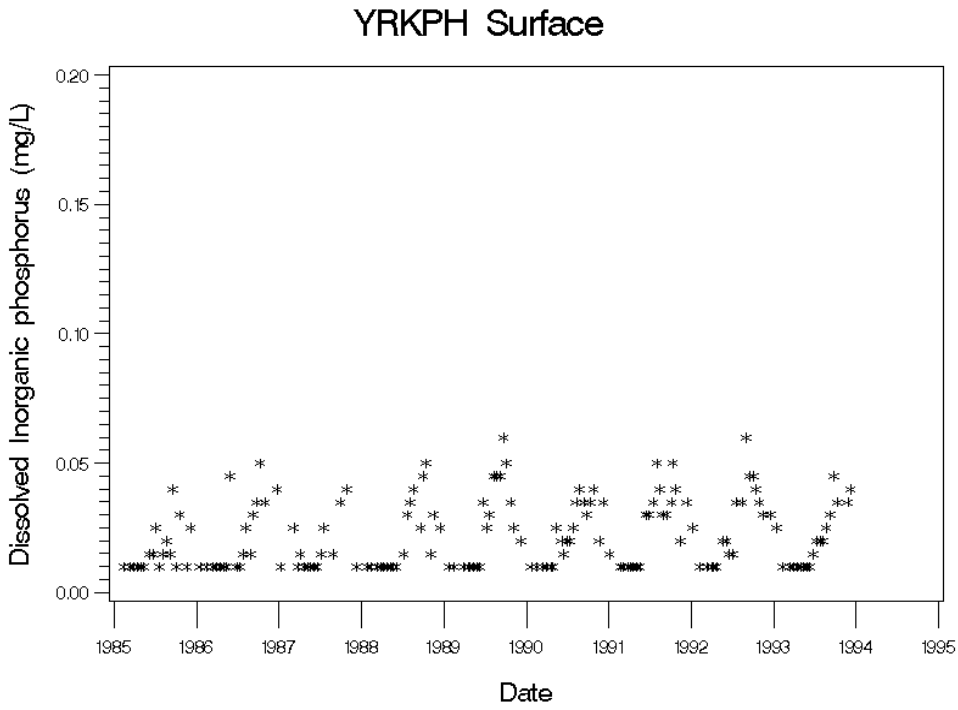


Figure 103. Scatterplots of surface total phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

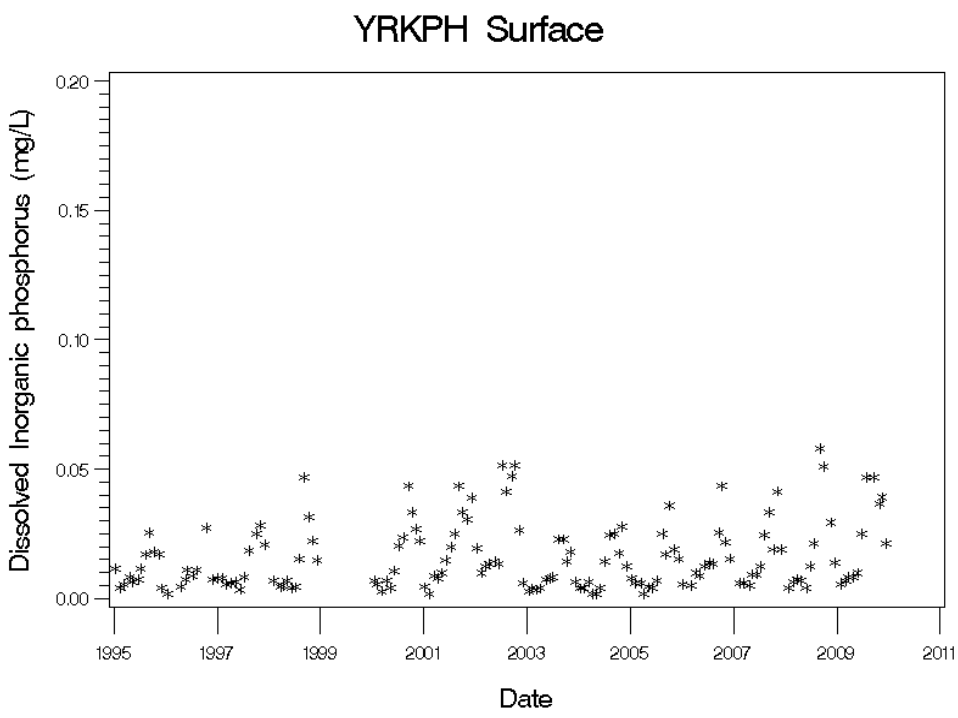


Figure 104. Scatterplots of surface dissolved inorganic phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

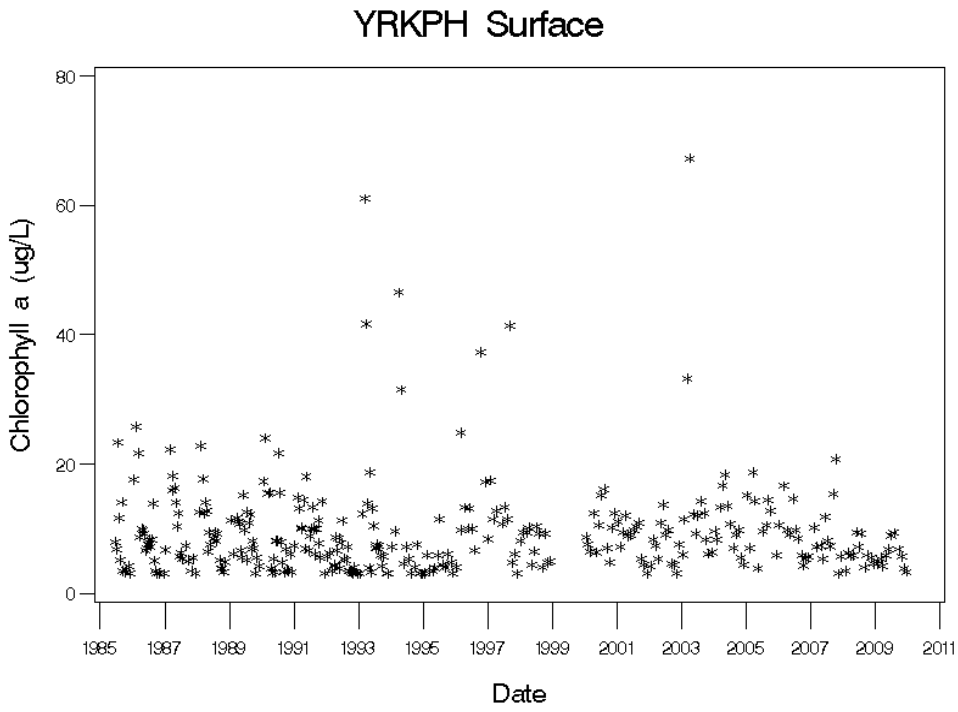


Figure 105. Scatterplot of surface chlorphyll a at segment YRKPH during the period 1985 to 2009.

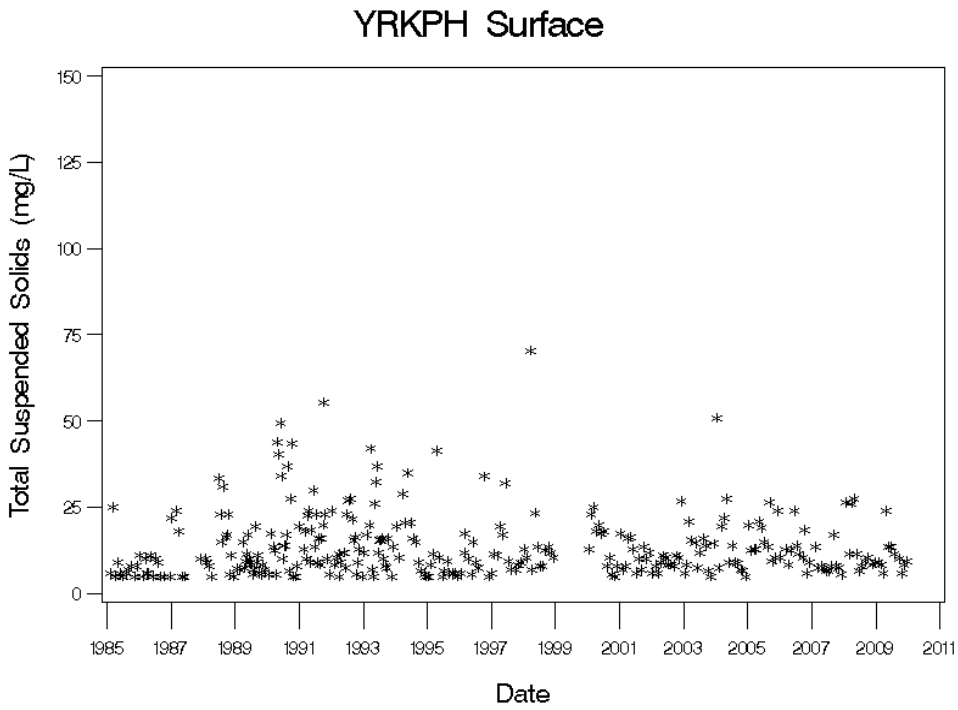


Figure 106. Scatterplot of surface total suspended solids at segment YRKPH during the period 1985 to 2009.

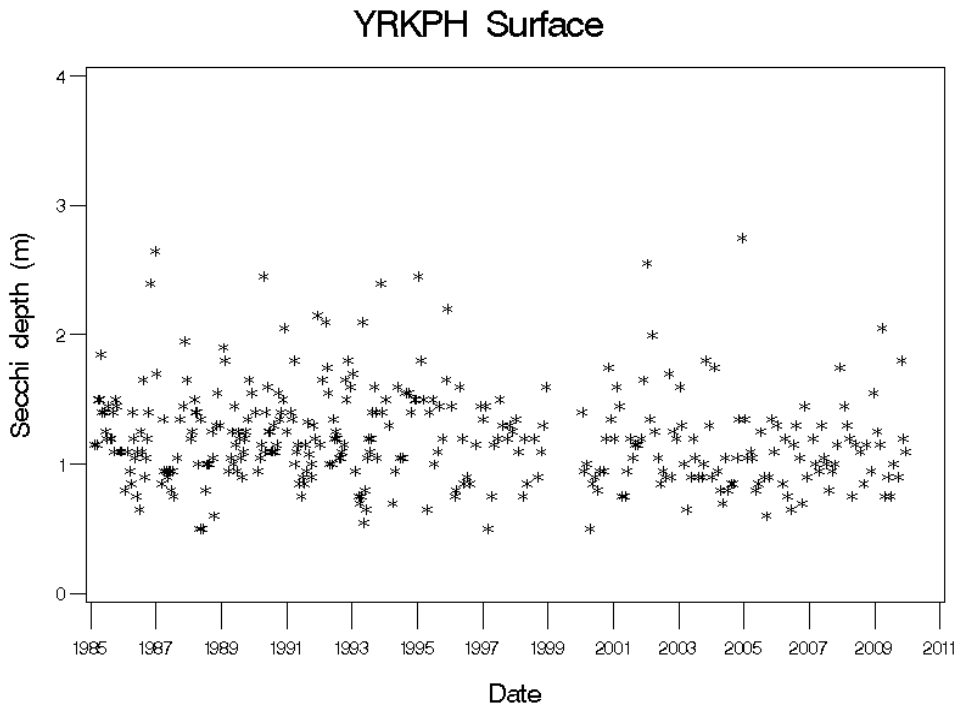


Figure 107. Scatterplot of secchi depth at segment YRKPH during the period 1985 to 2009.

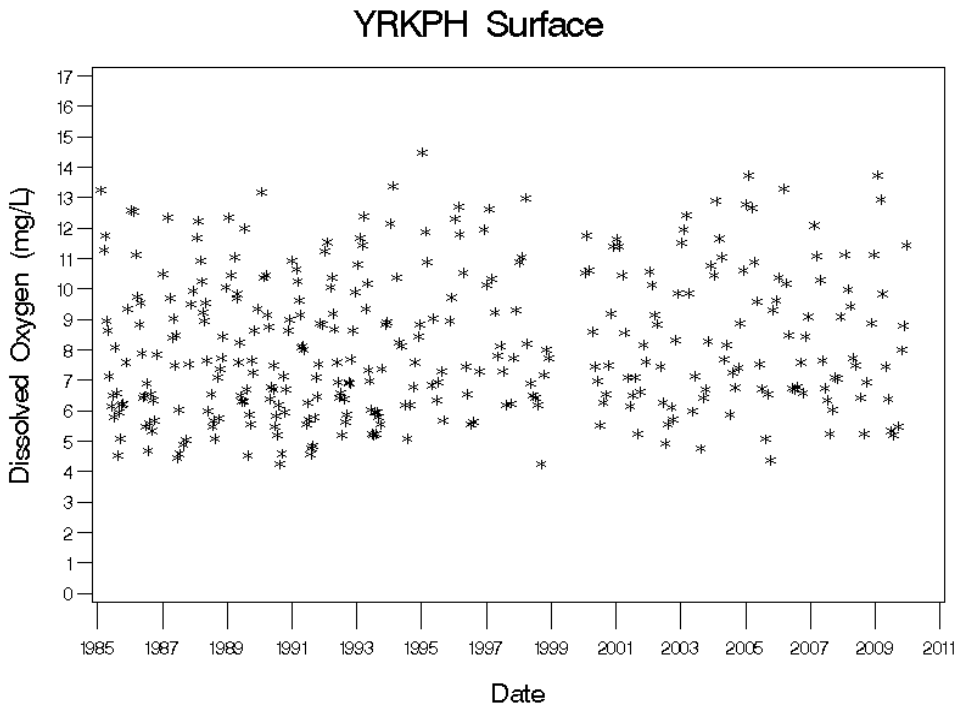


Figure 108. Scatterplot of surface dissolved oxygen at segment YRKPH during the period 1985 to 2009.

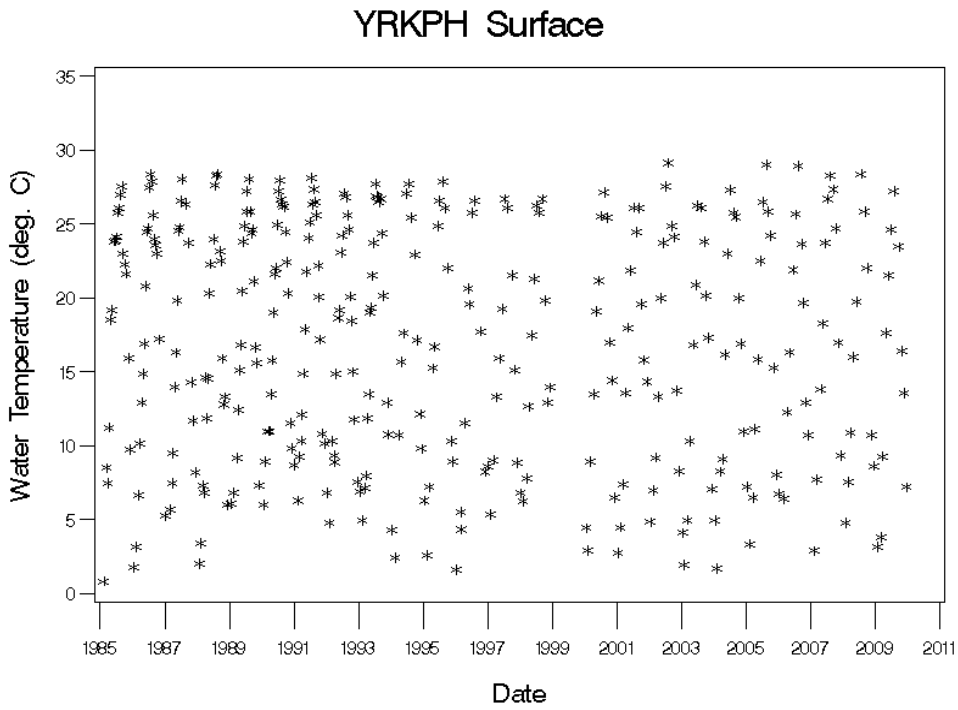


Figure 109. Scatterplot of surface water temperature at segment YRKPH during the period 1985 to 2009.

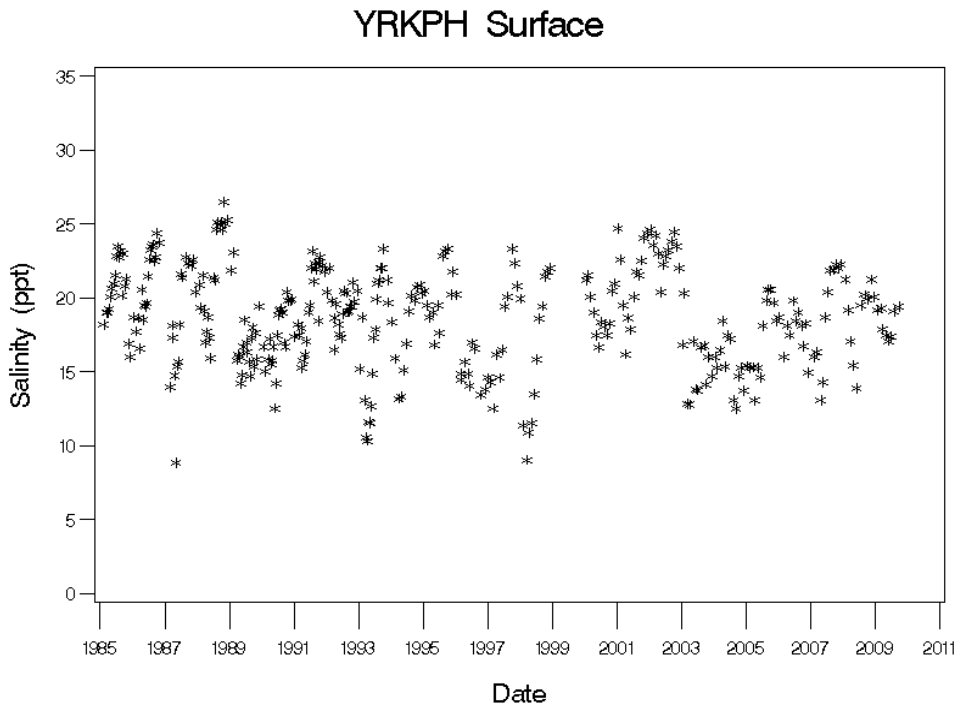


Figure 110. Scatterplot of surface salinity at segment YRKPH during the period 1985 to 2009.

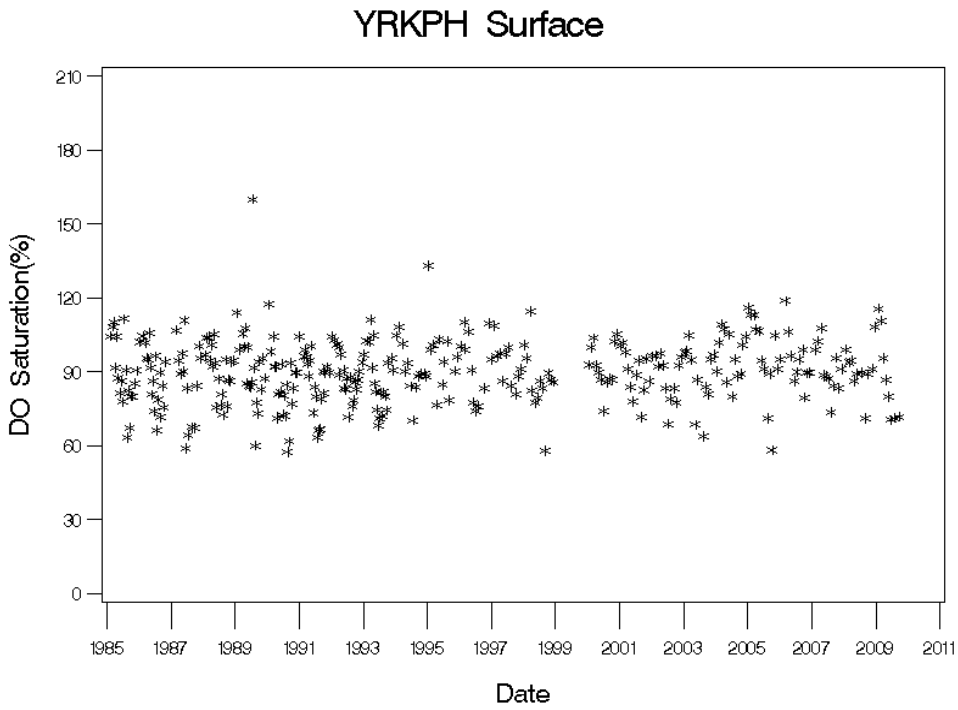
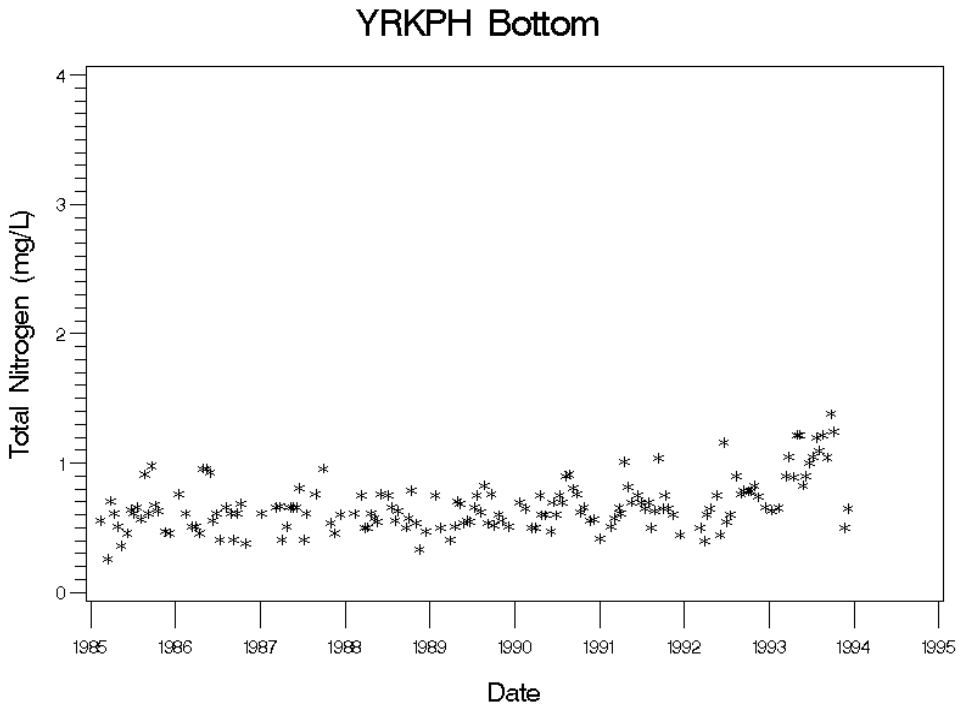


Figure 111. Scatterplot of surface DO saturation at segment YRKPH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

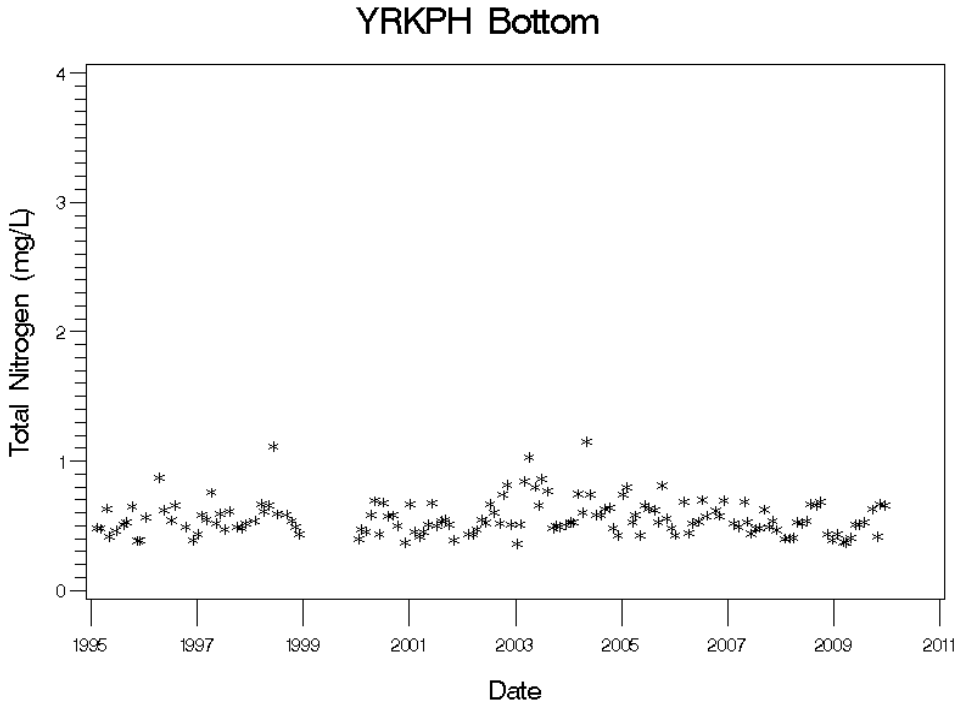
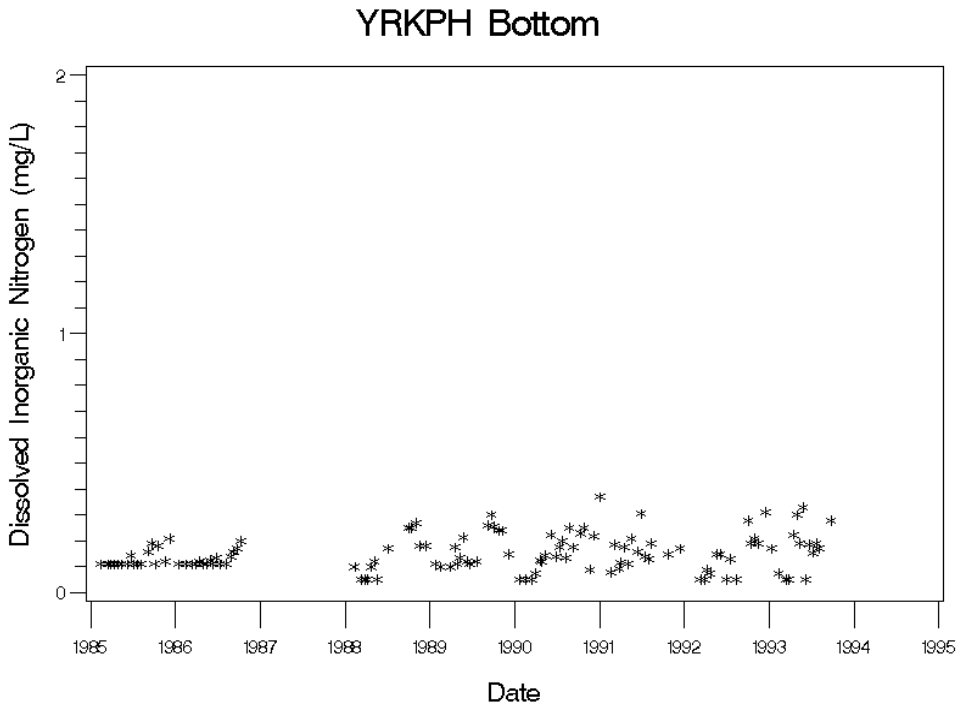


Figure 112. Scatterplots of bottom total nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

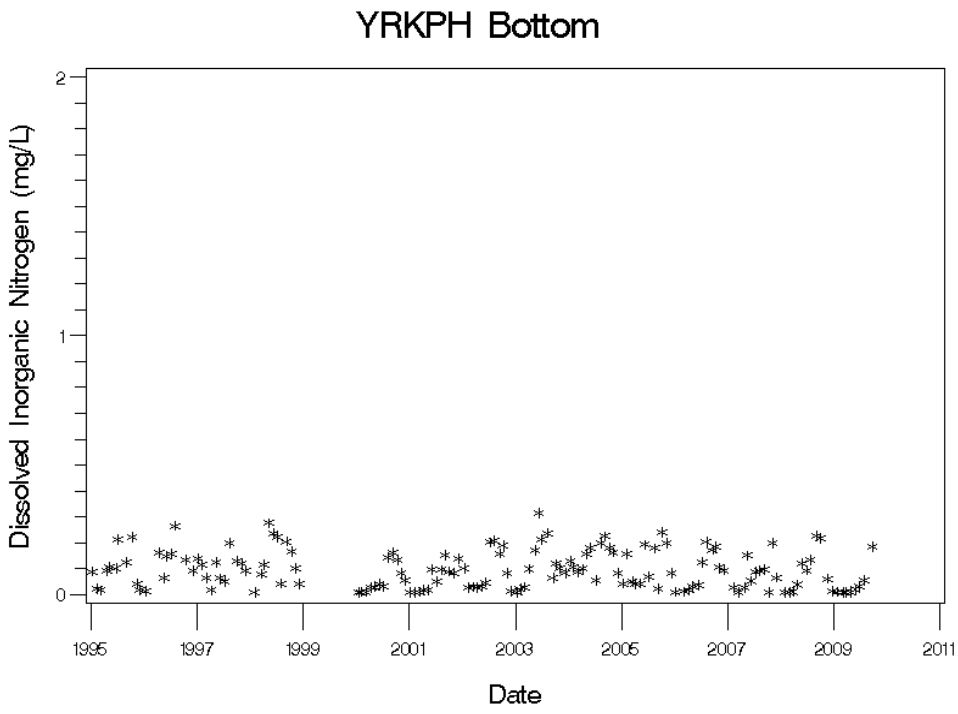
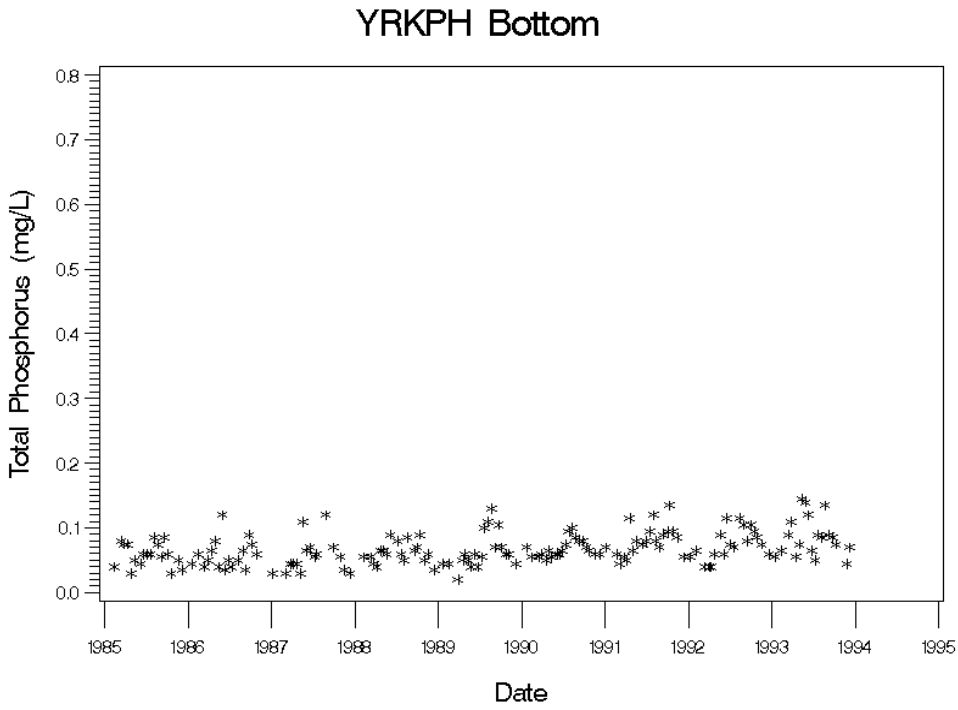


Figure 113. Scatterplots of bottom dissolved inorganic nitrogen at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

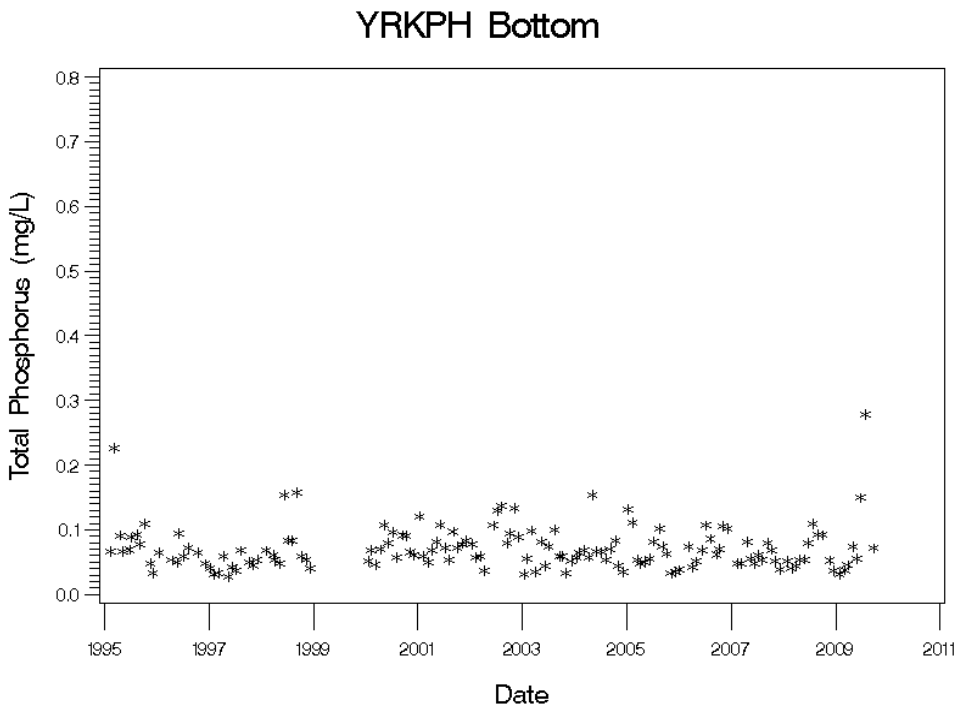
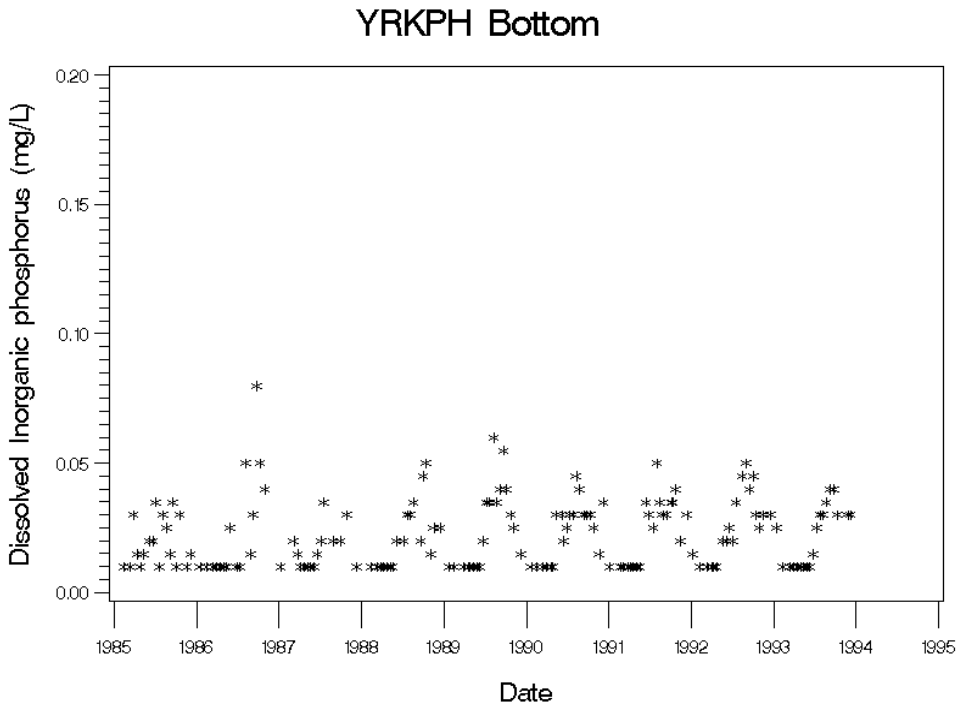


Figure 114. Scatterplots of bottom total phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

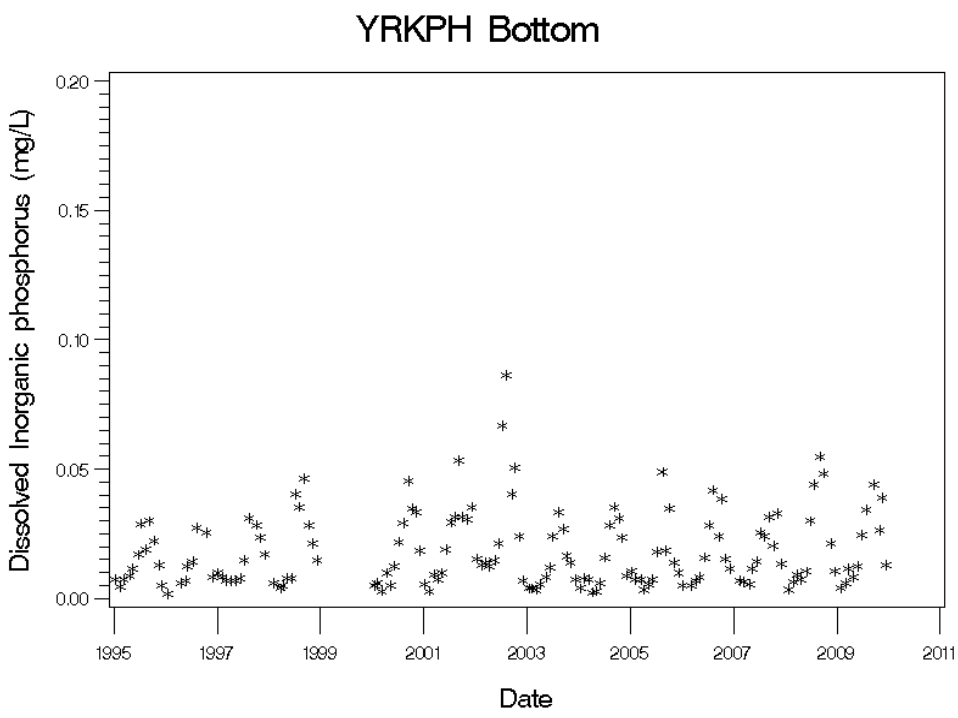


Figure 115. Scatterplots of bottom dissolved inorganic phosphorus at segment YRKPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

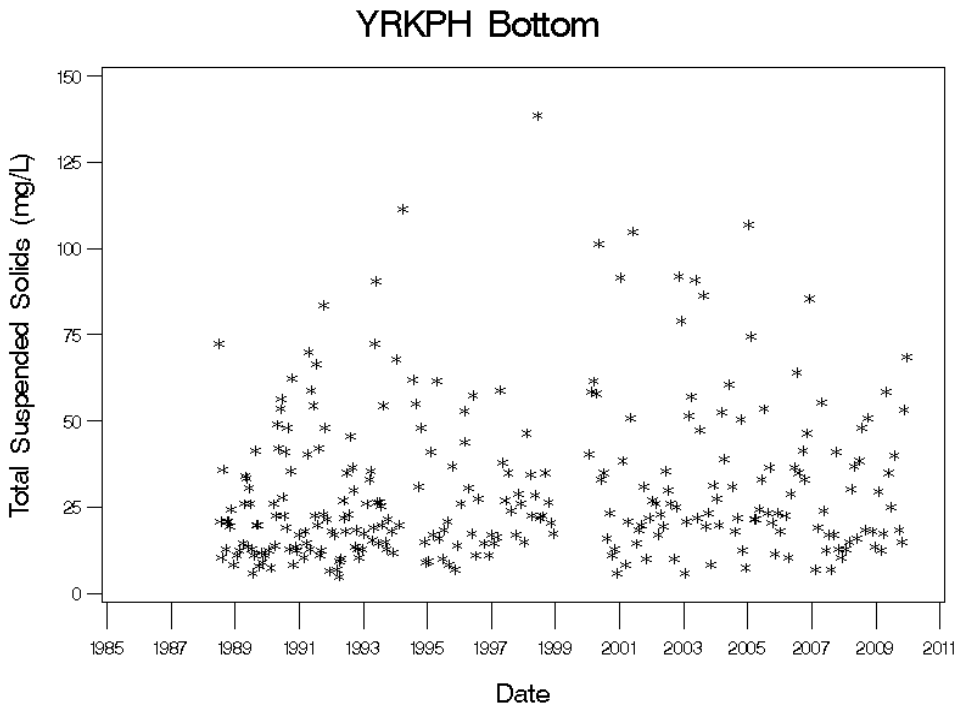


Figure 116. Scatterplot of bottom total suspended solids at segment YRKPH during the period 1985 to 2009.

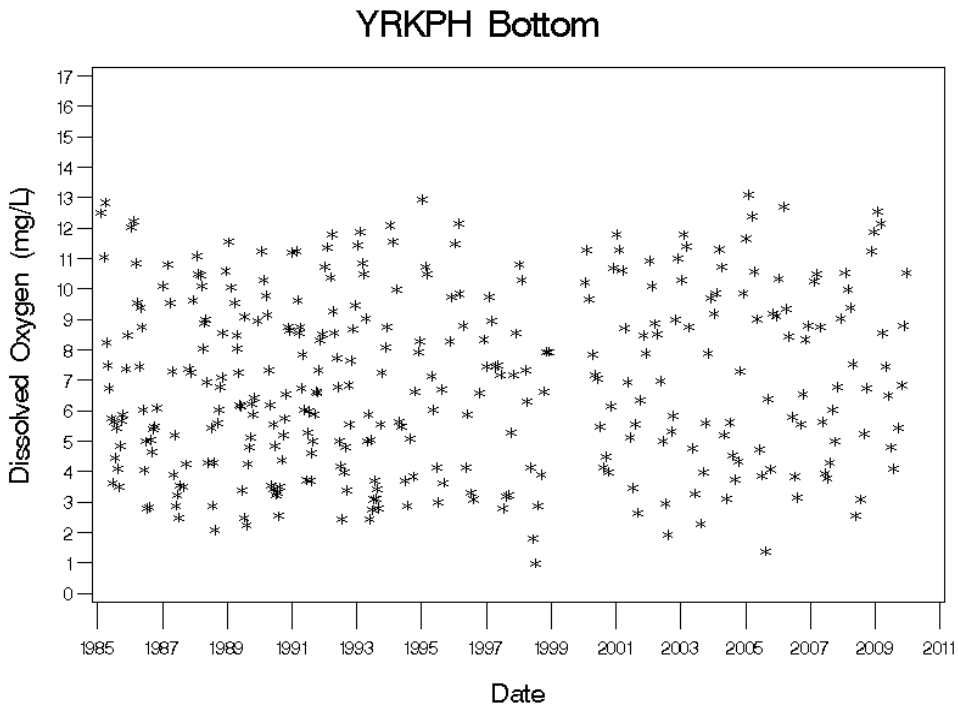


Figure 117. Scatterplot of bottom dissolved oxygen at segment YRKPH during the period 1985 to 2009.

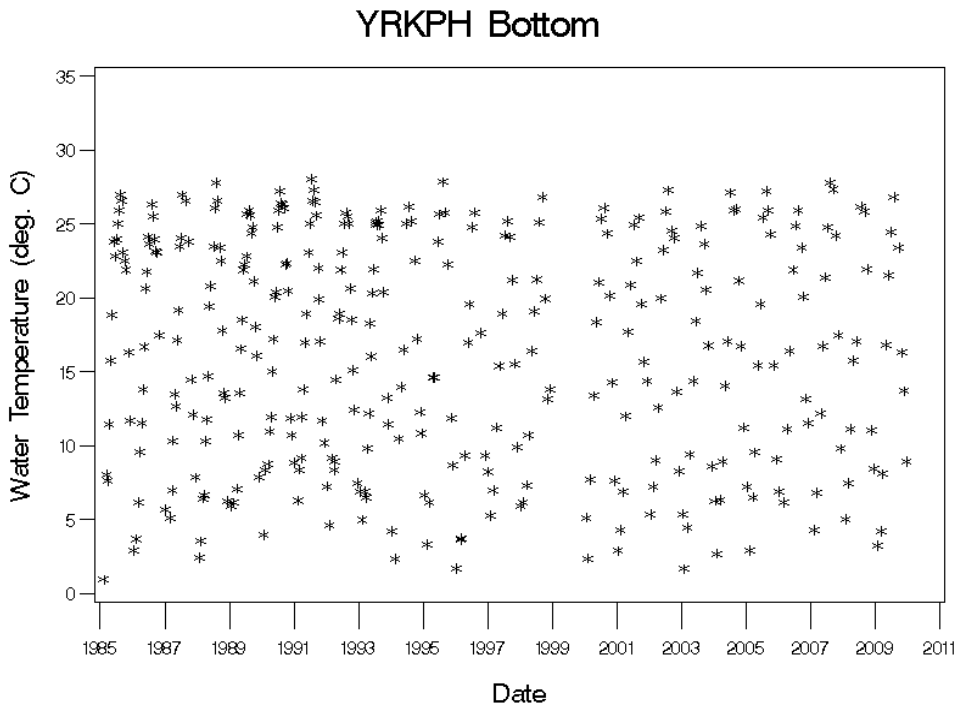


Figure 118. Scatterplot of bottom water temperature at segment YRKPH during the period 1985 to 2009.

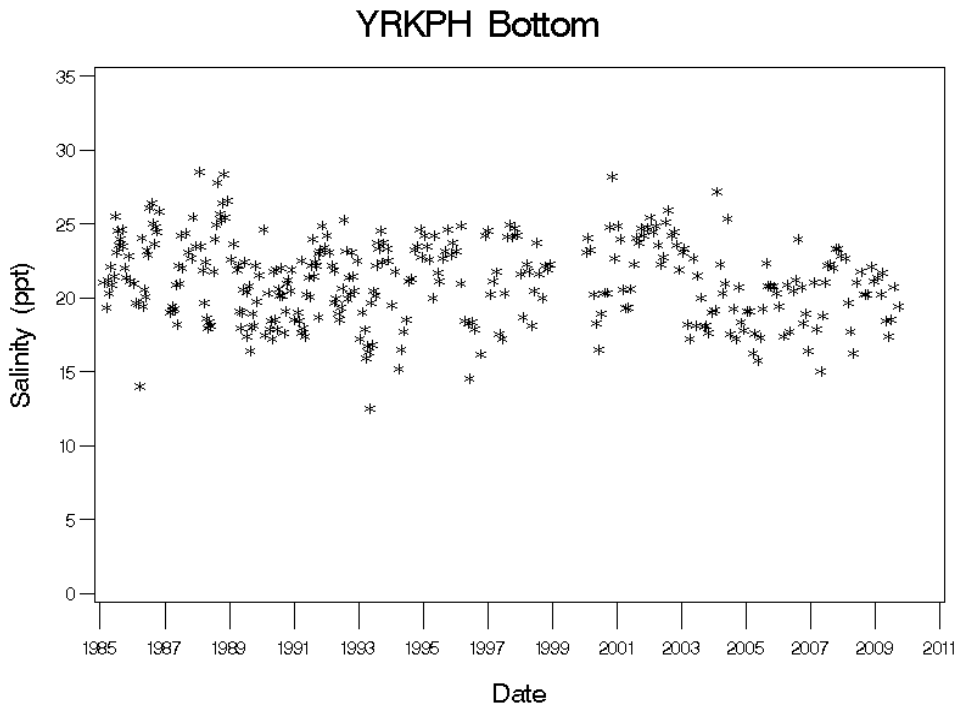


Figure 119. Scatterplot of bottom salinity at segment YRKPH during the period 1985 to 2009.

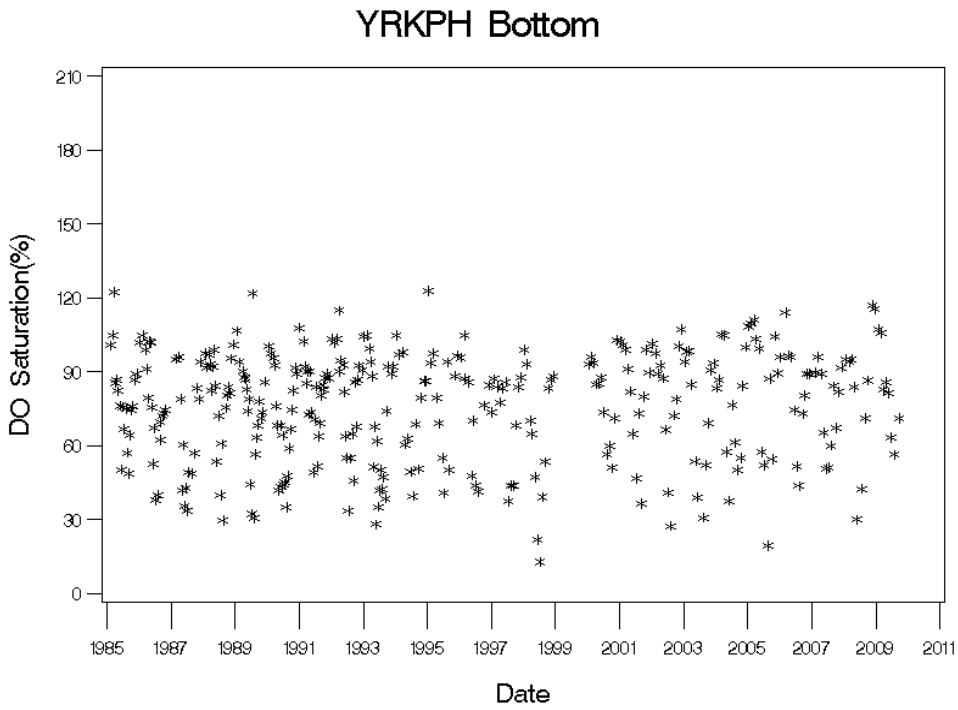
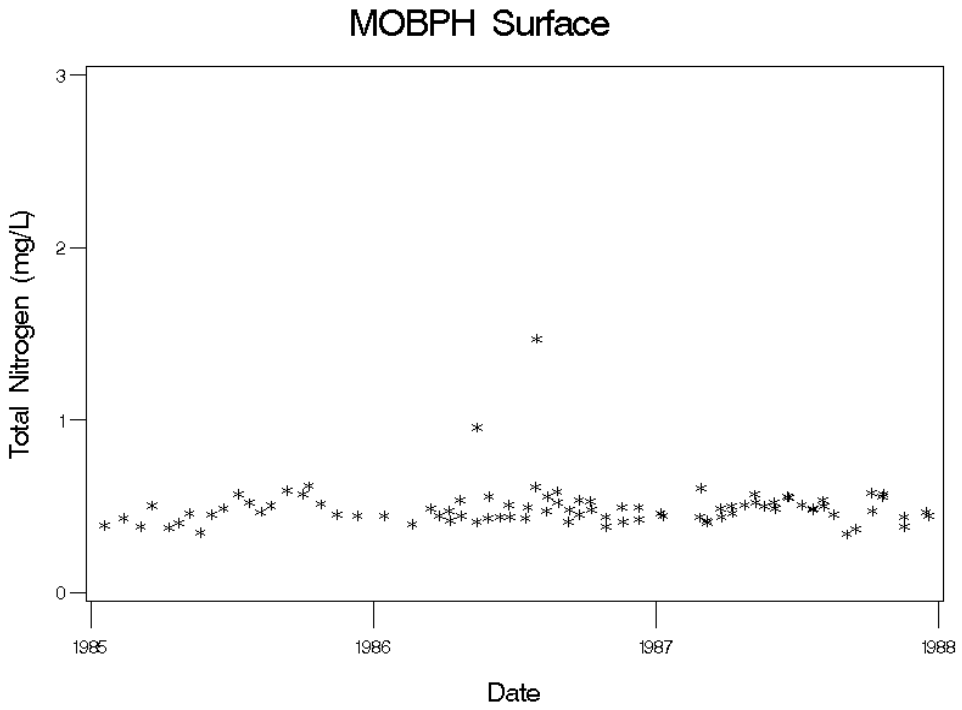


Figure 120. Scatterplot of bottom DO saturation at segment YRKPH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

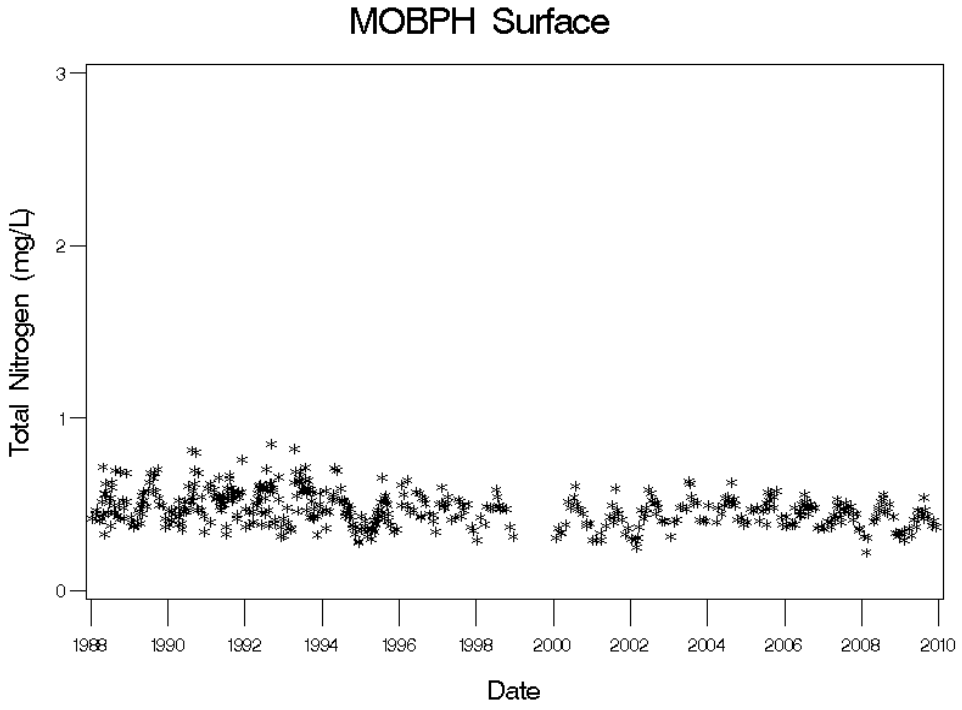
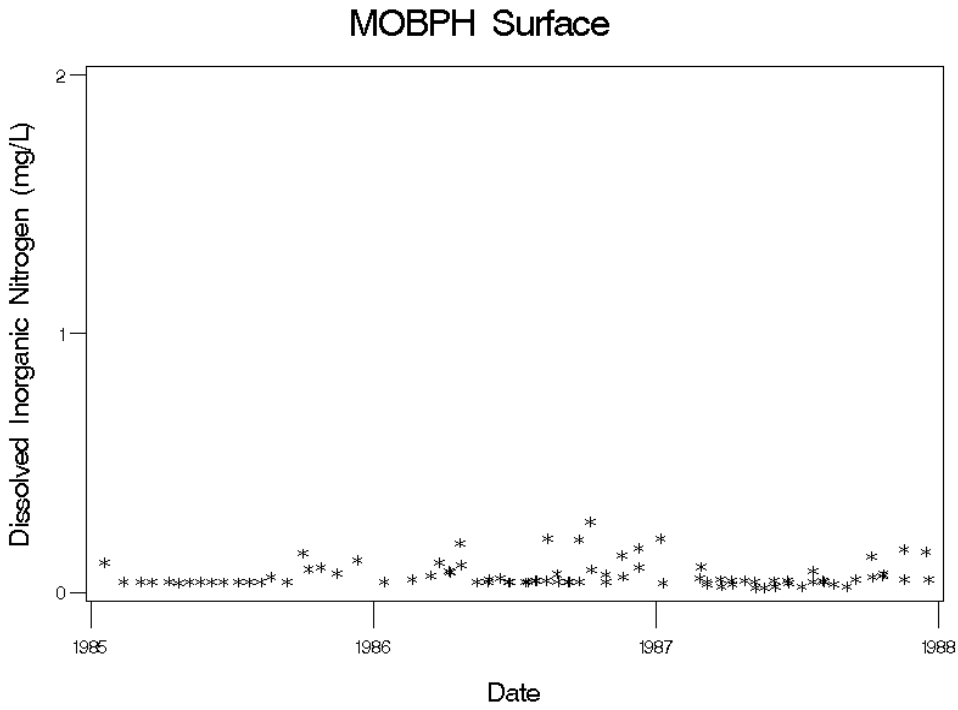


Figure 121. Scatterplots of surface total nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

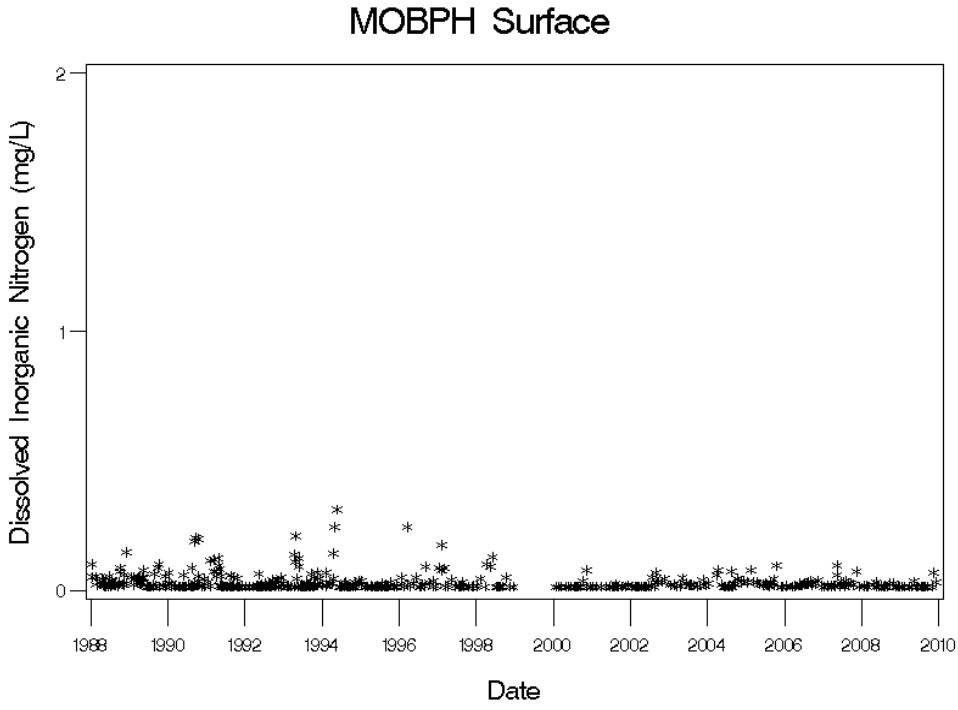
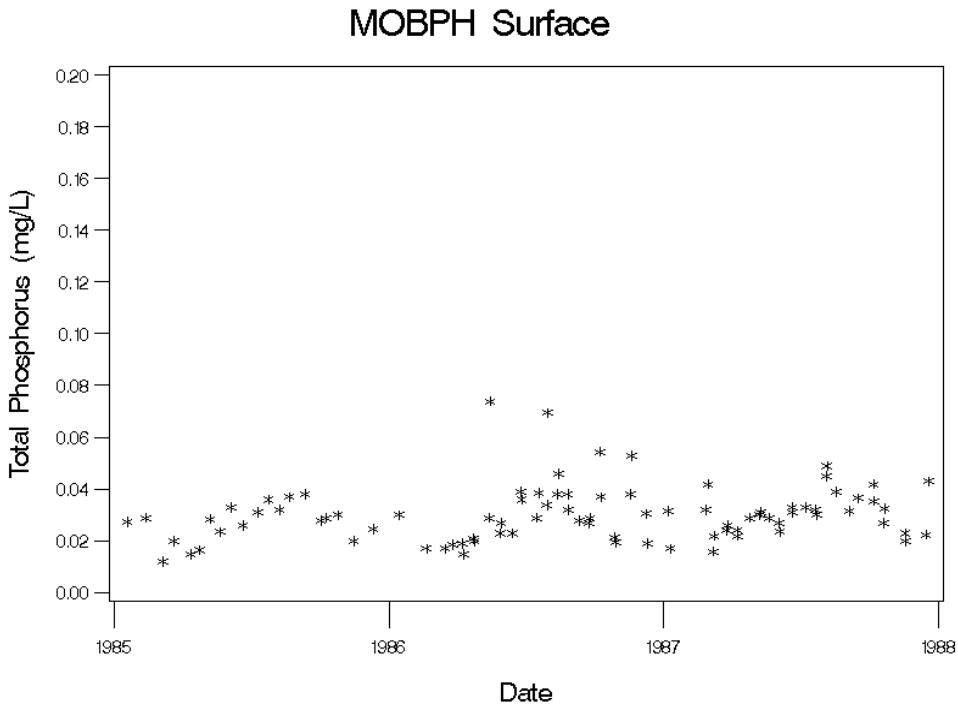


Figure 122. Scatterplots of surface dissolved inorganic nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

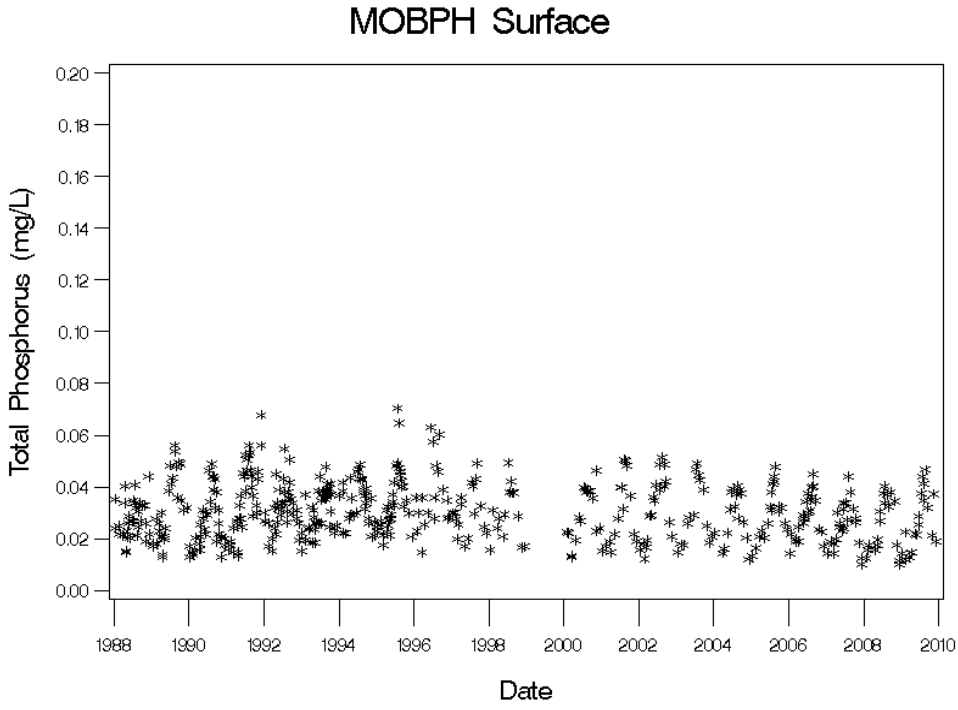
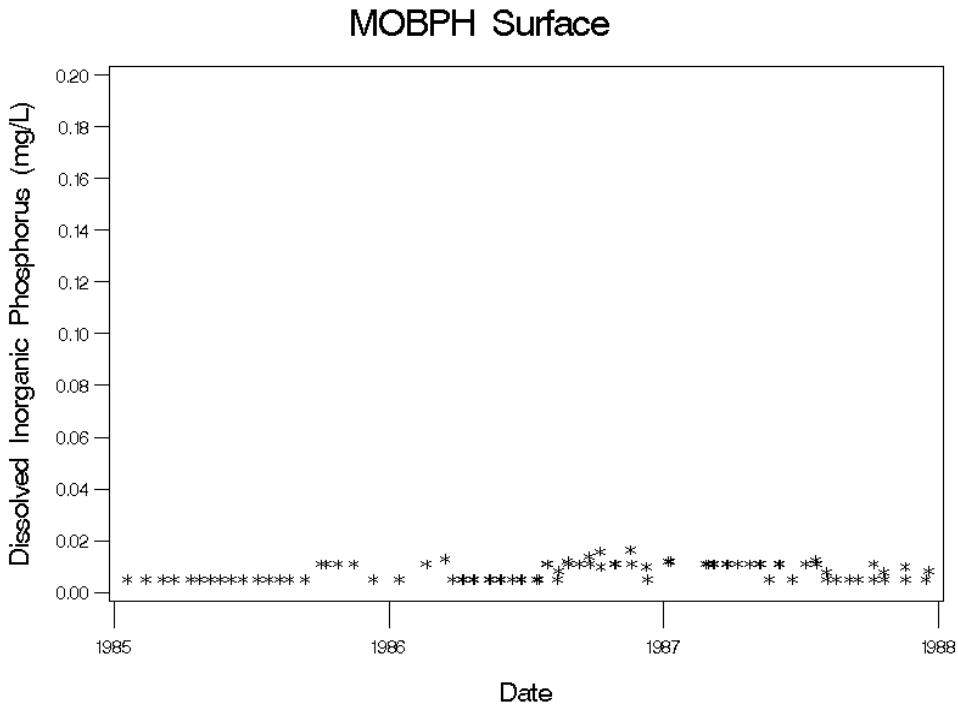


Figure 123. Scatterplots of surface total phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

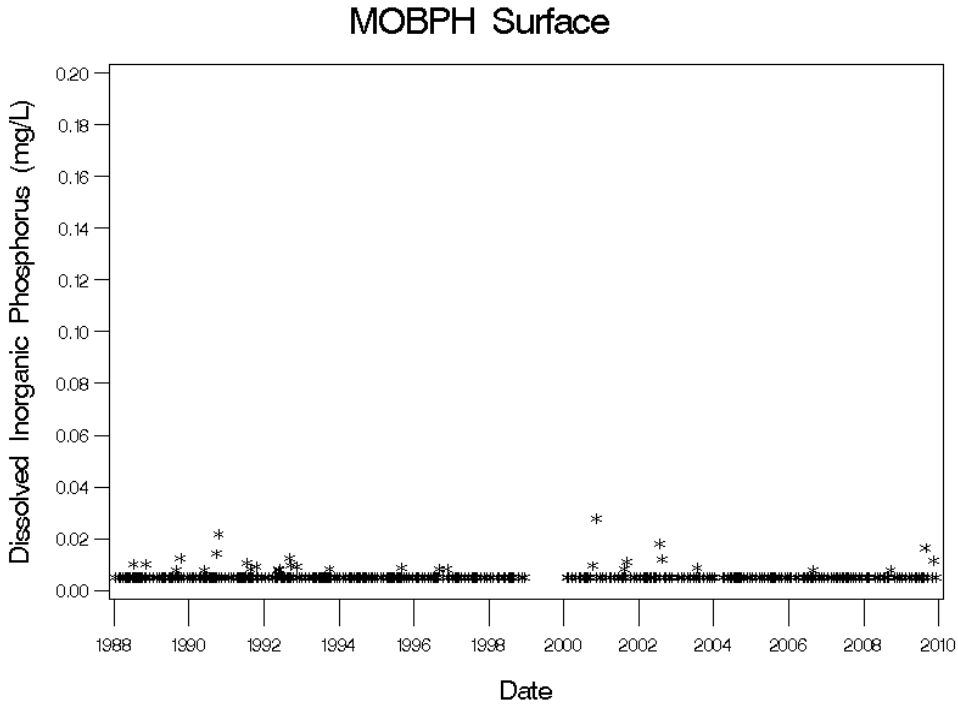


Figure 124. Scatterplots of surface dissolved inorganic phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

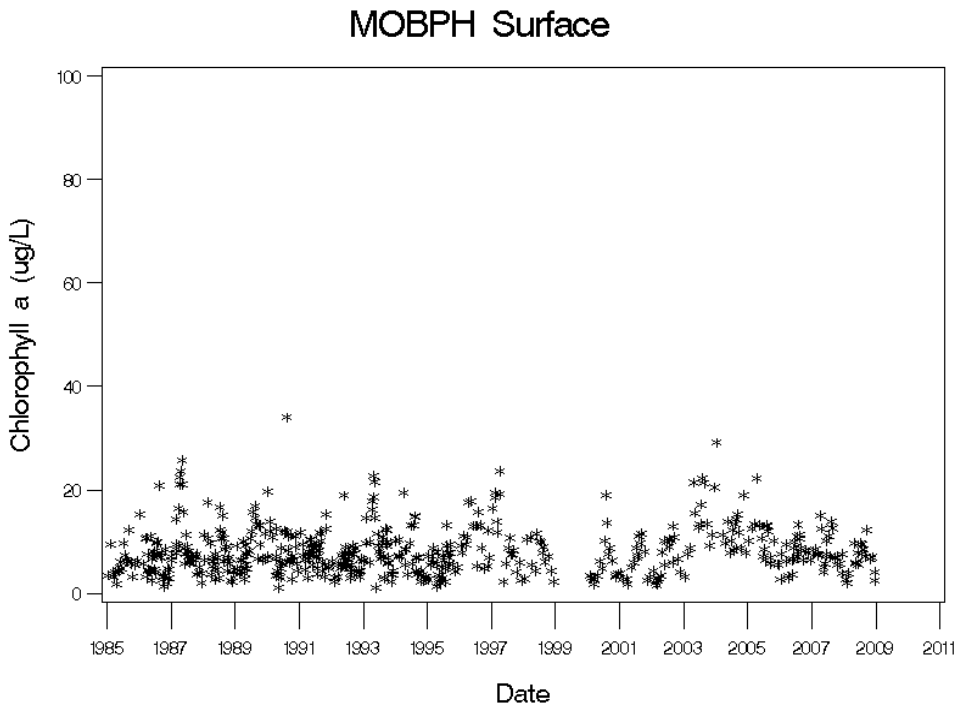


Figure 125. Scatterplot of surface chlorphyll a at segment MOBPH during the period of 1985 to 2009.

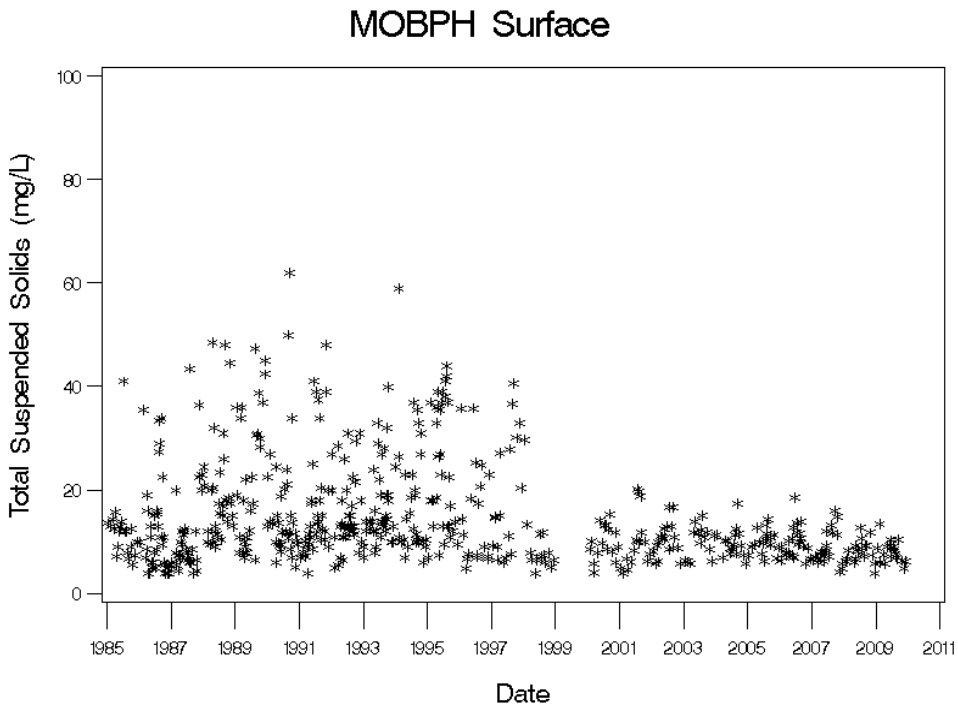


Figure 126. Scatterplot of surface total suspended solids at segment MOBPH during the period of 1985 to 2009.

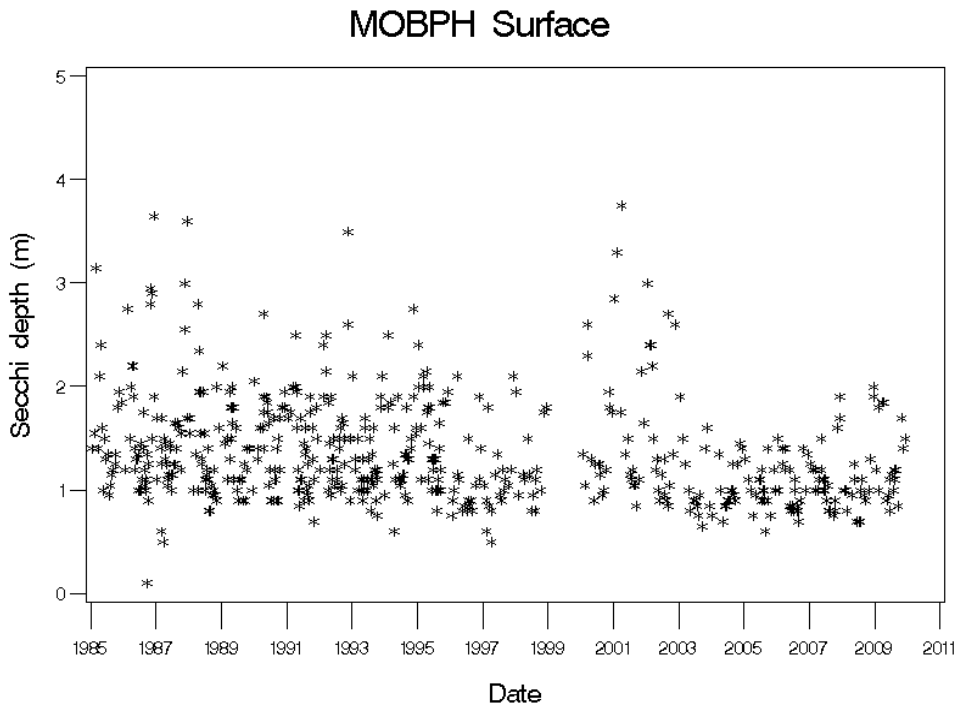


Figure 127. Scatterplot of secchi depth at segment MOBPH during the period of 1985 to 2009.

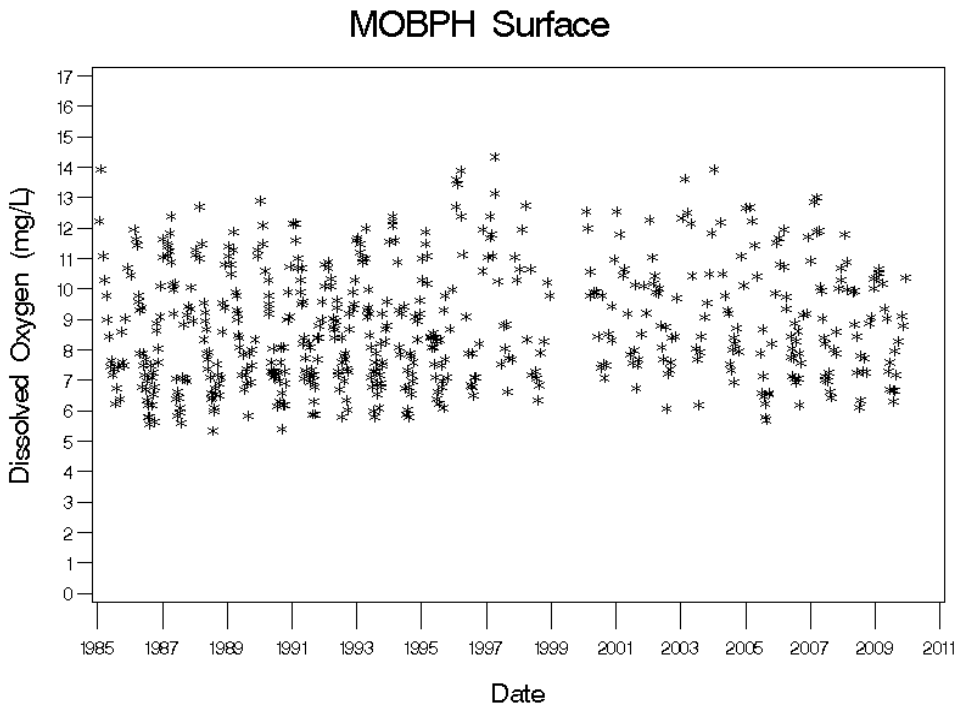


Figure 128. Scatterplot of surface dissolved oxygen at segment MOBPH during the period of 1985 to 2009.

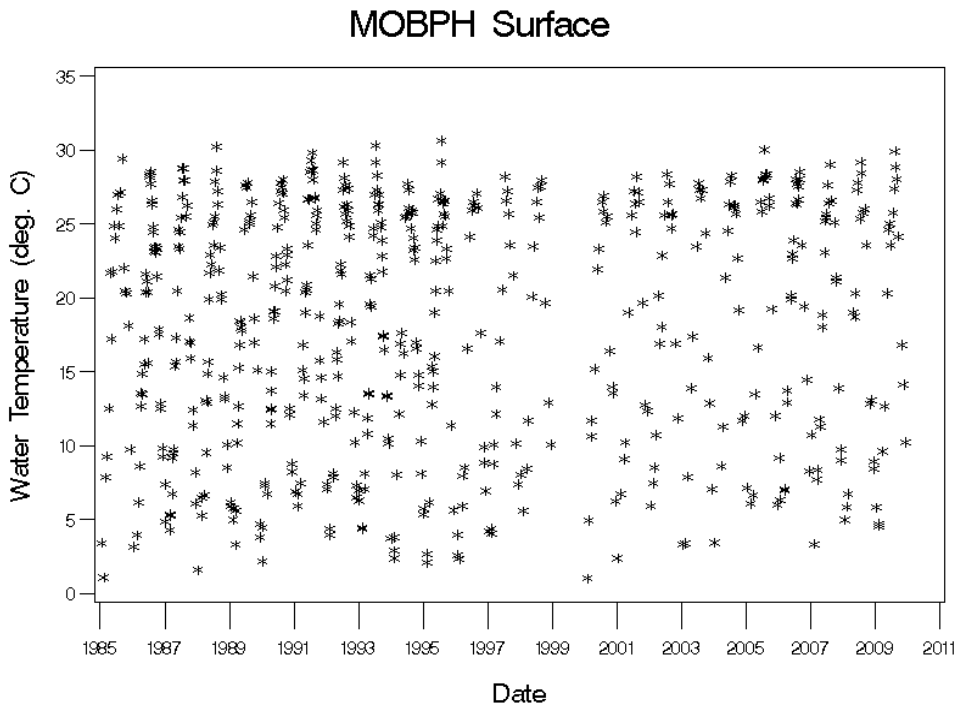


Figure 129. Scatterplot of surface water temperature at segment MOBPH during the period of 1985 to 2009.

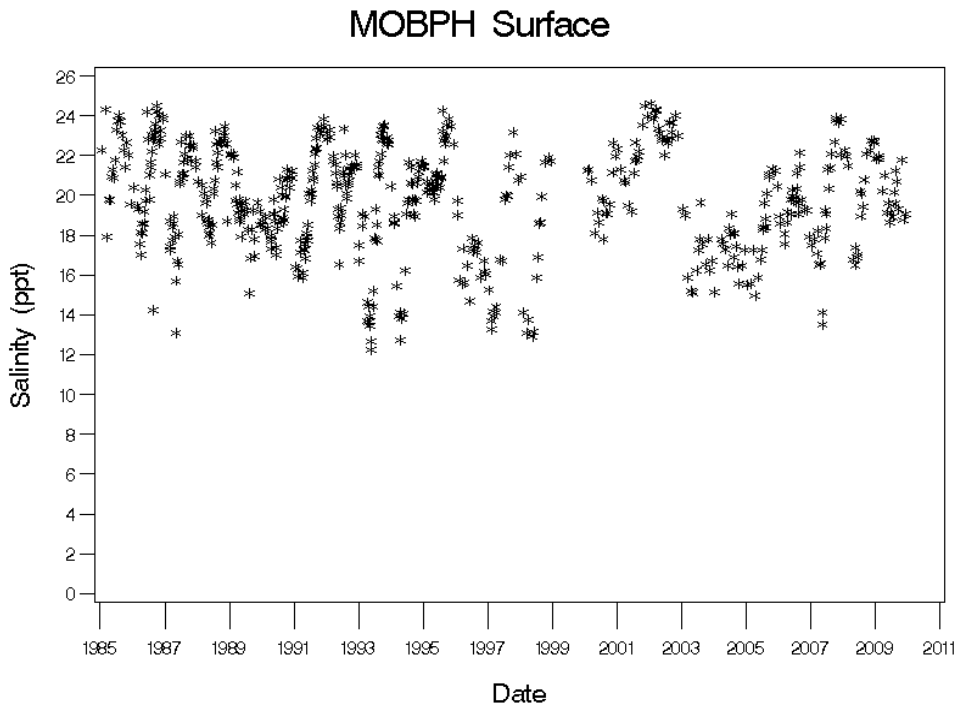


Figure 130. Scatterplot of surface salinity at segment MOBPH during the period of 1985 to 2009.

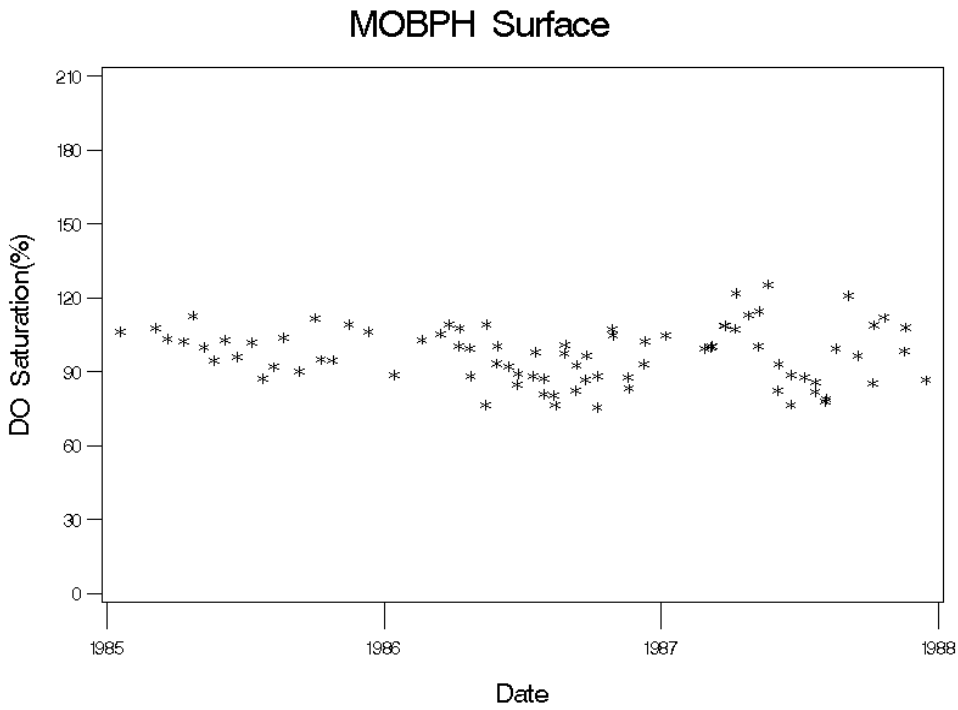
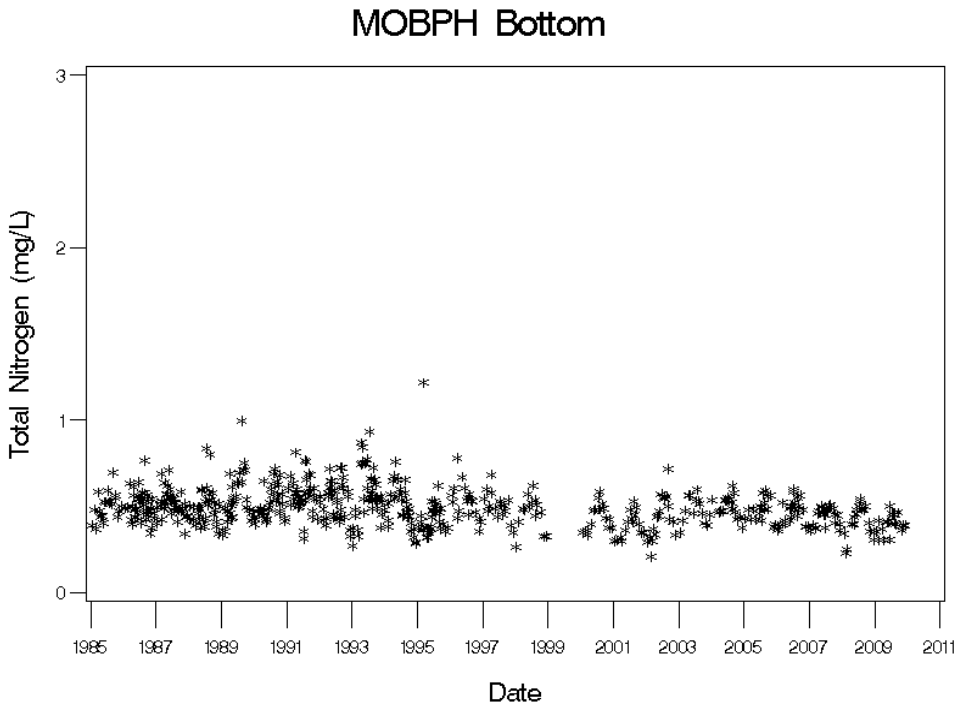


Figure 131. Scatterplot of surface DO saturation at segment MOBPH during the period 1985 to 2009.

a) Pre-method change period



b) Post-method change period

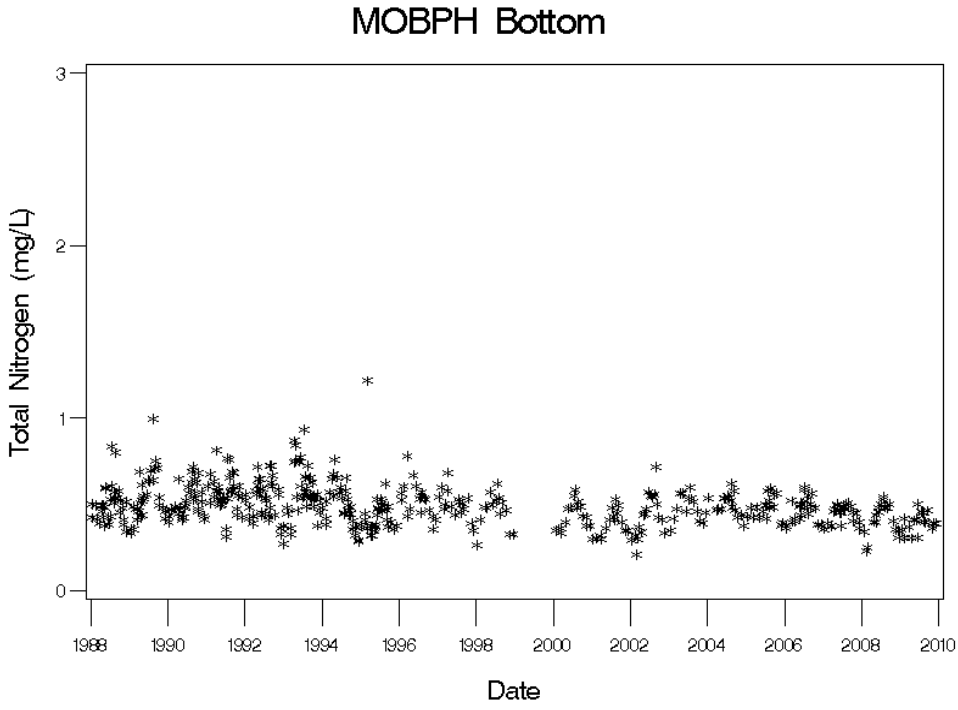
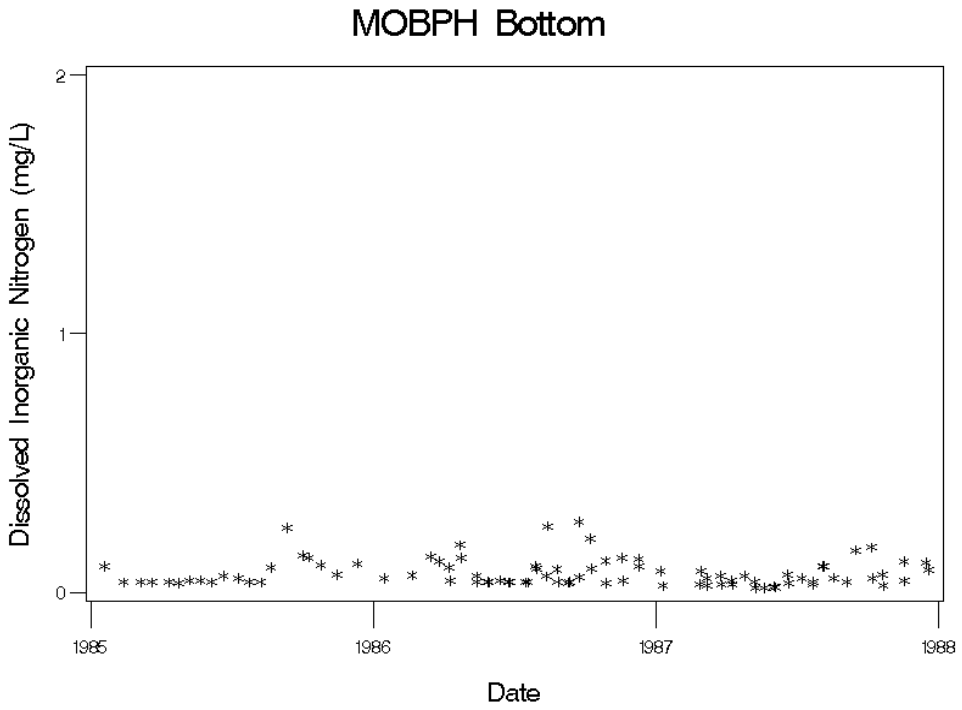


Figure 132. Scatterplots of bottom total nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

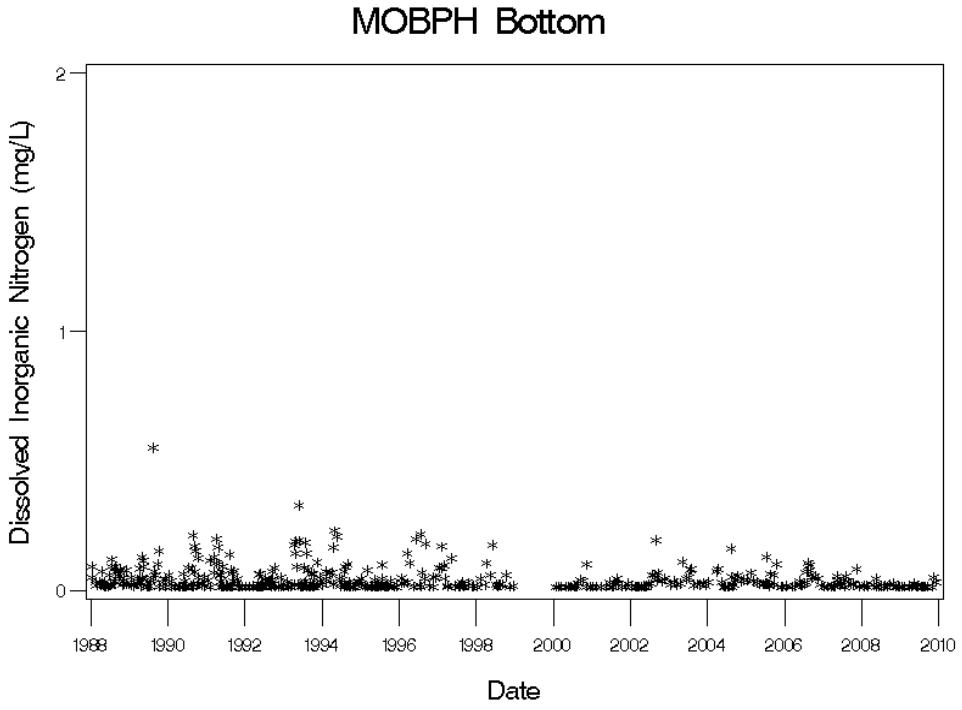
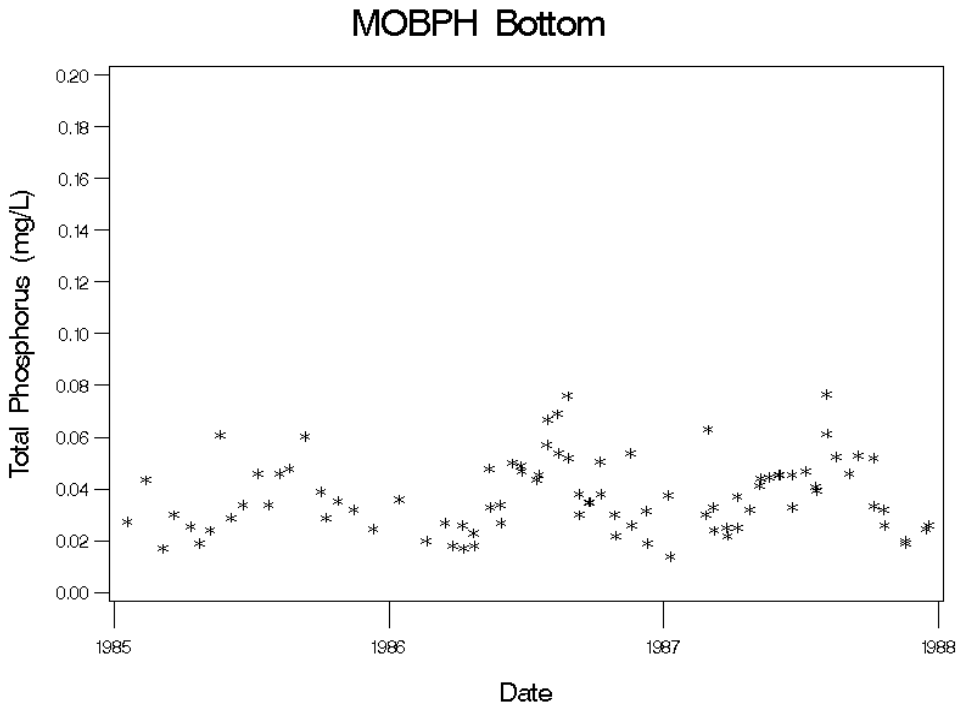


Figure 133. Scatterplots of bottom dissolved inorganic nitrogen at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

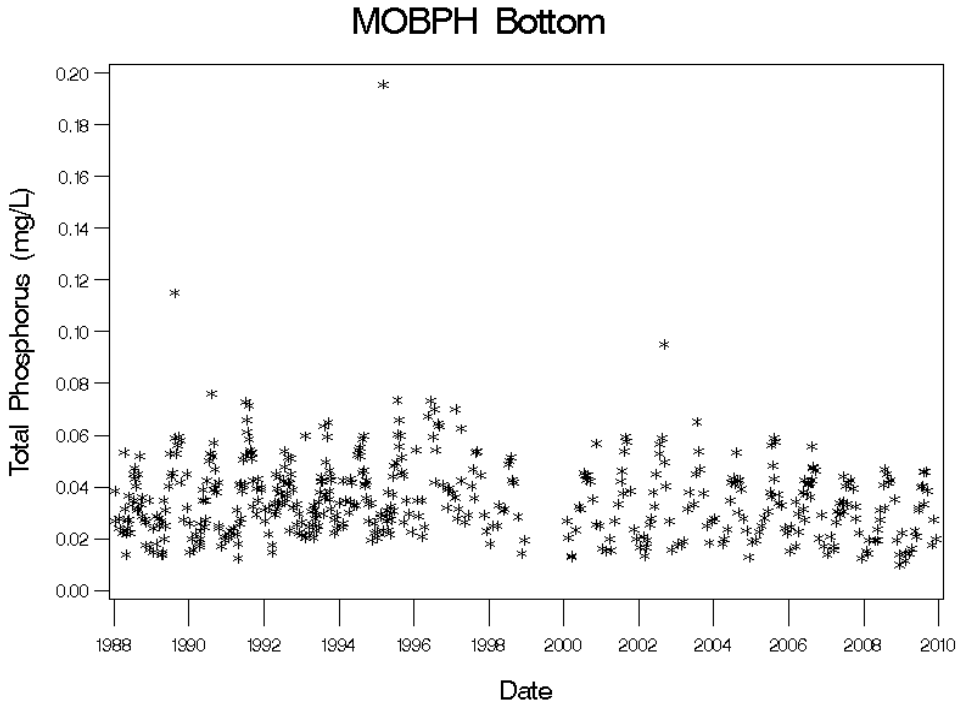
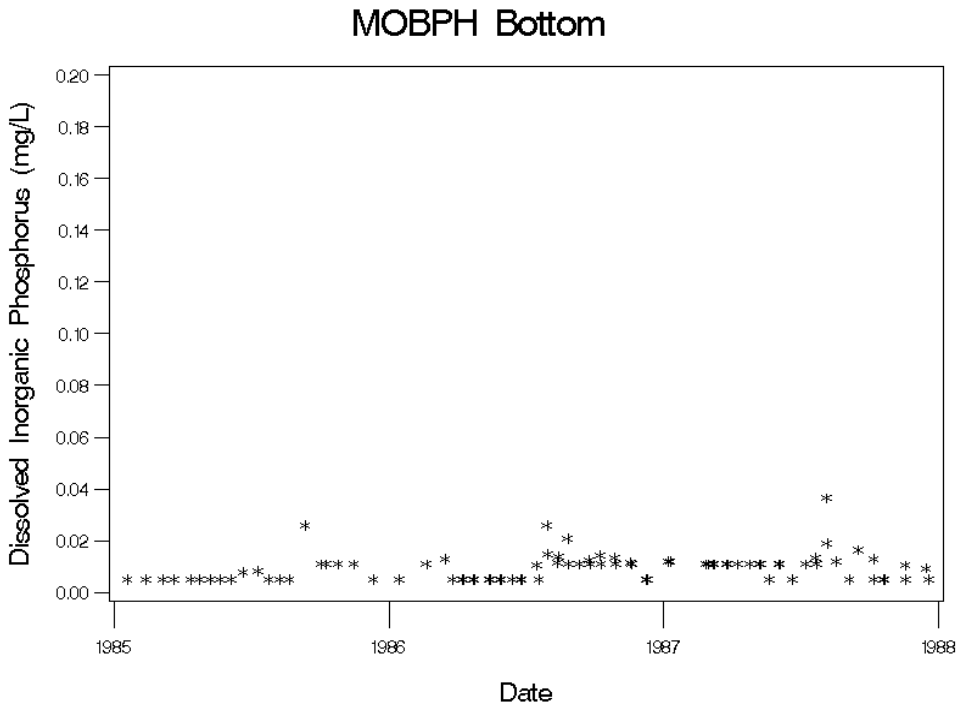


Figure 134. Scatterplots of bottom total phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

a) Pre-method change period



b) Post-method change period

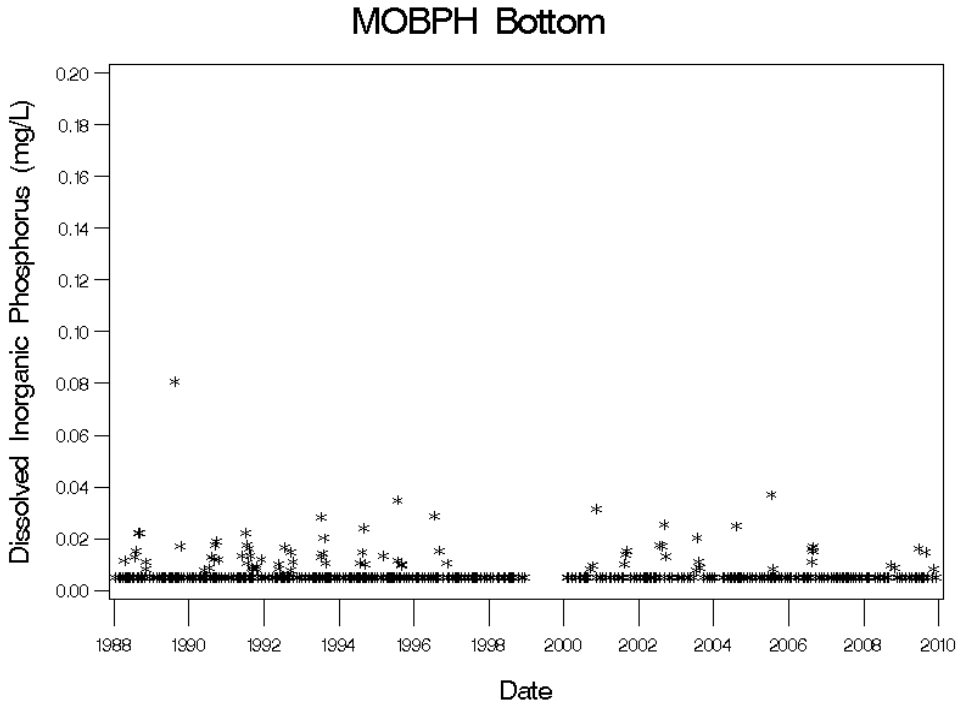


Figure 135. Scatterplots of bottom dissolved inorganic phosphorus at segment MOBPH during the a) Pre-method change (1985-1993) and b) Post-method change (1995-2009) periods.

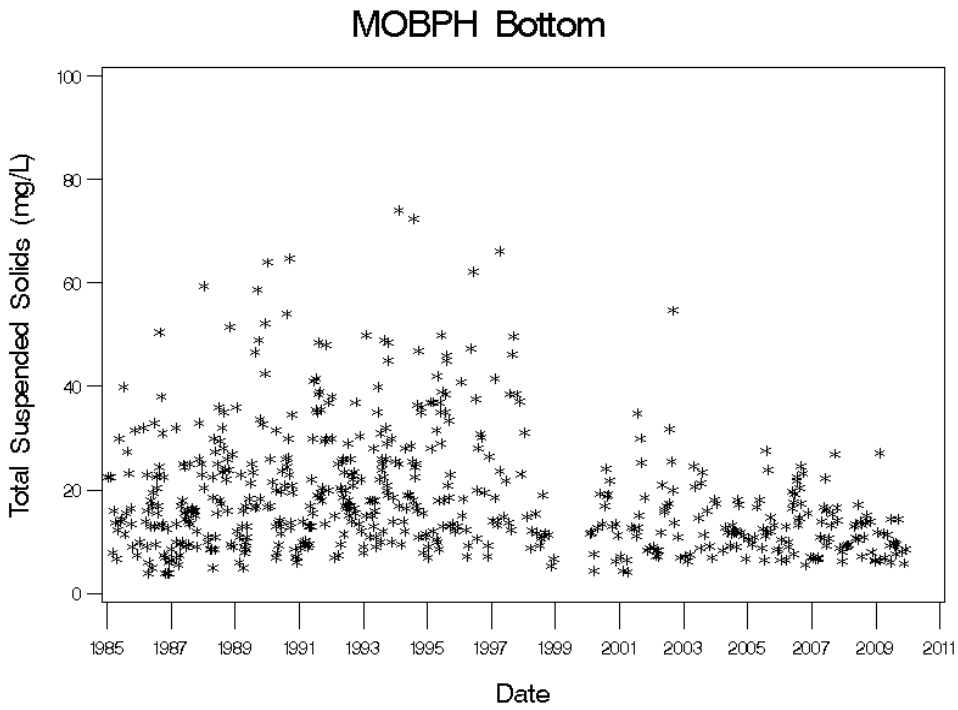


Figure 136. Scatterplot of bottom total suspended solids at segment MOBPH during the period of 1985 to 2009.

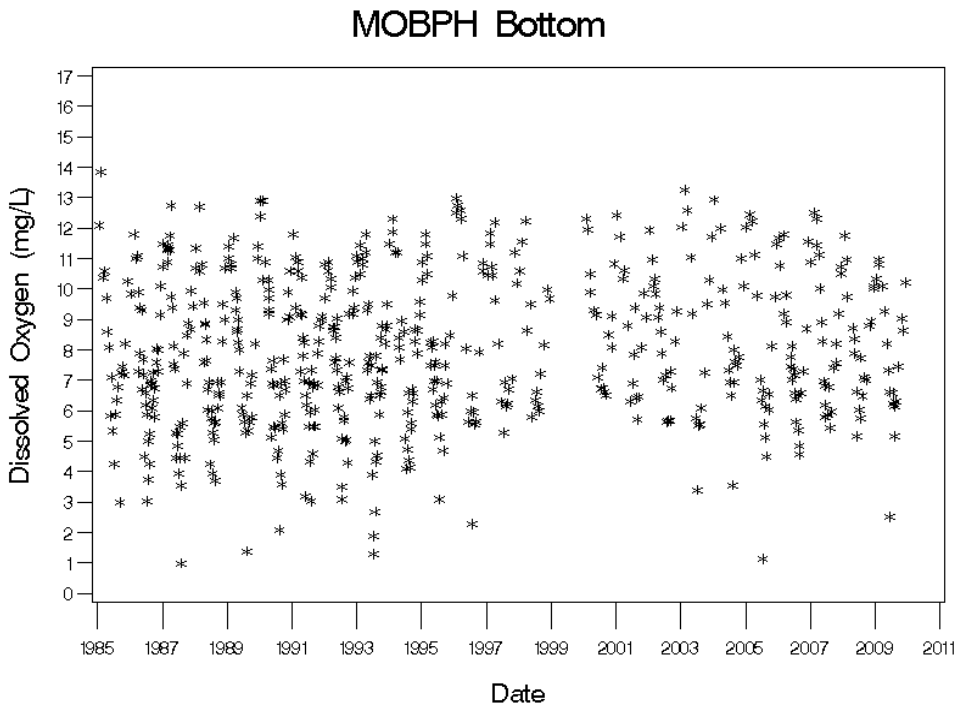


Figure 137. Scatterplot of bottom dissolved oxygen at segment MOBPH during the period of 1985 to 2009.

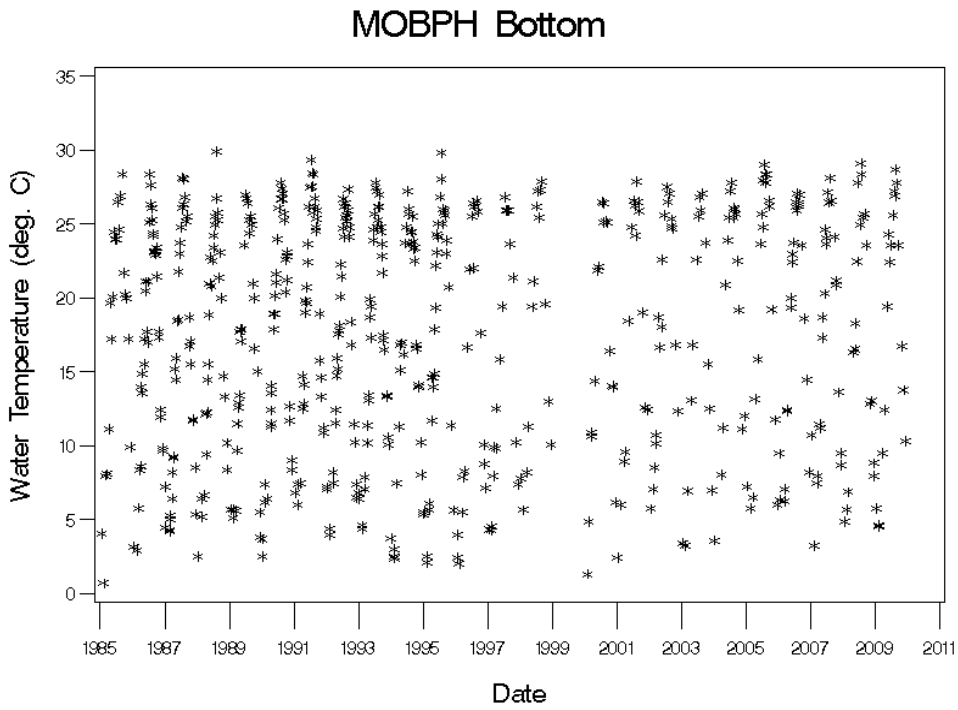


Figure 138. Scatterplot of bottom water temperature at segment MOBPH during the period of 1985 to 2009.

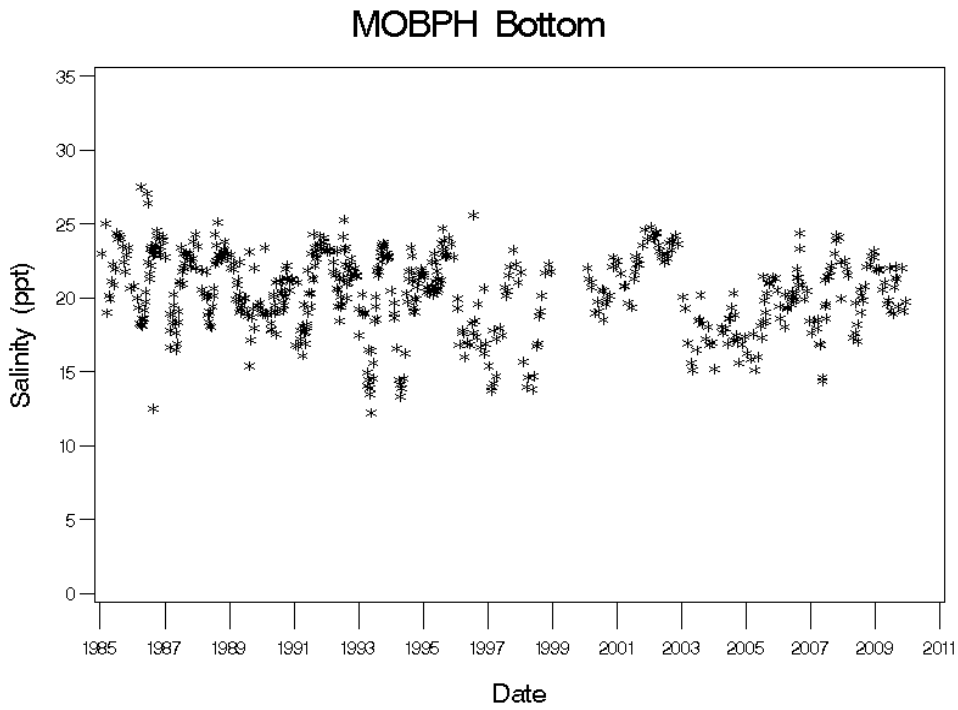


Figure 139. Scatterplot of bottom salinity at segment MOBPH during the period of 1985 to 2009.

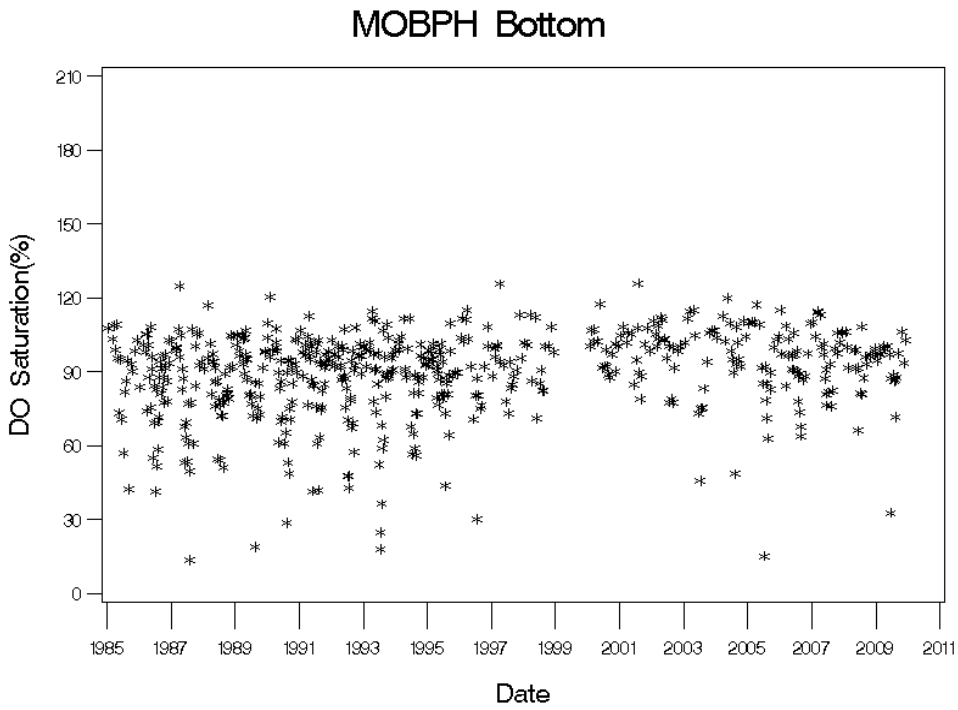


Figure 140. Scatterplot of bottom DO saturation at segment MOBPH during the period 1985 to 2009.