

FINAL

BACK RIVER NUTRIENTS TMDLS

APPENDIX 1

PART A

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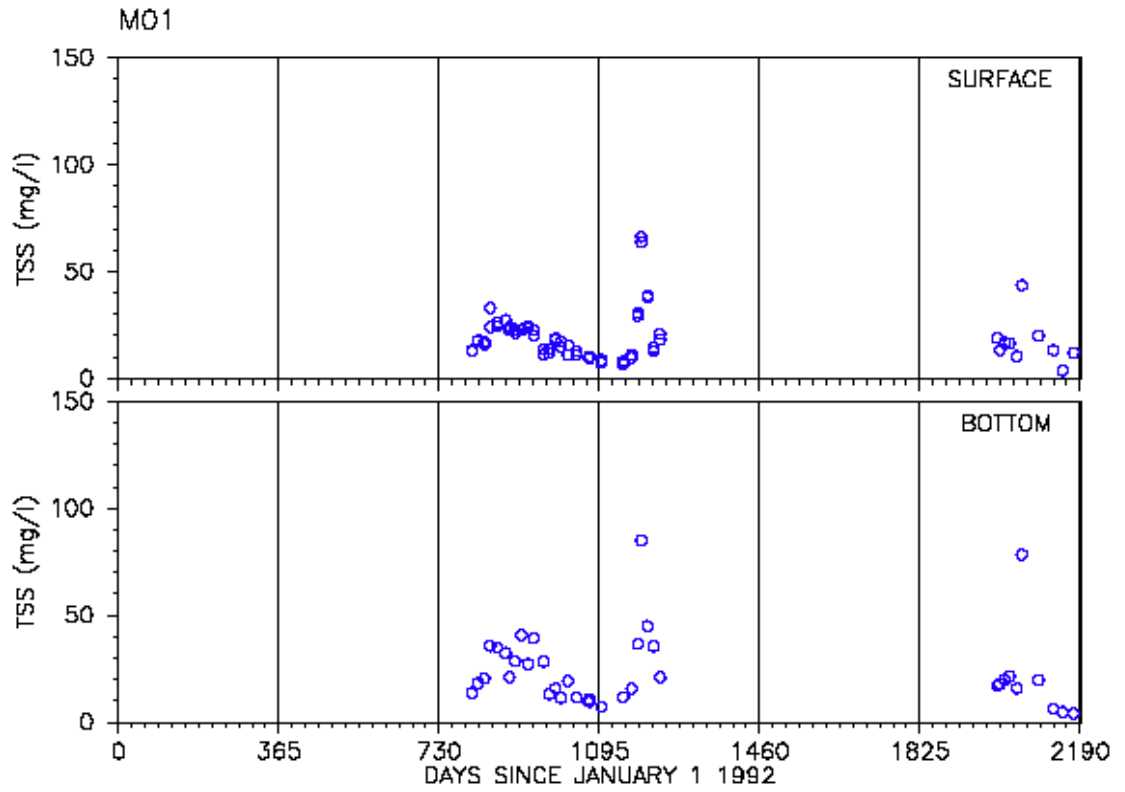
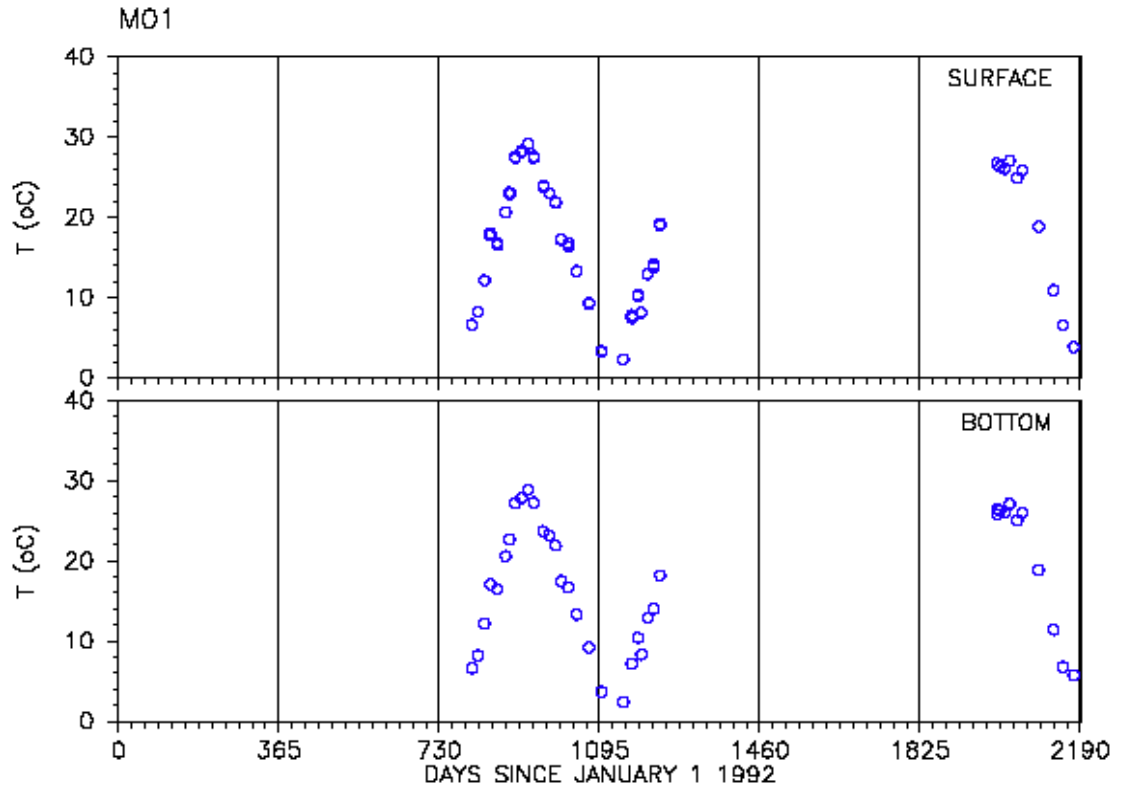


Fig. 1. Water quality monitoring data for temperature and total suspended solids in Back River (M01)

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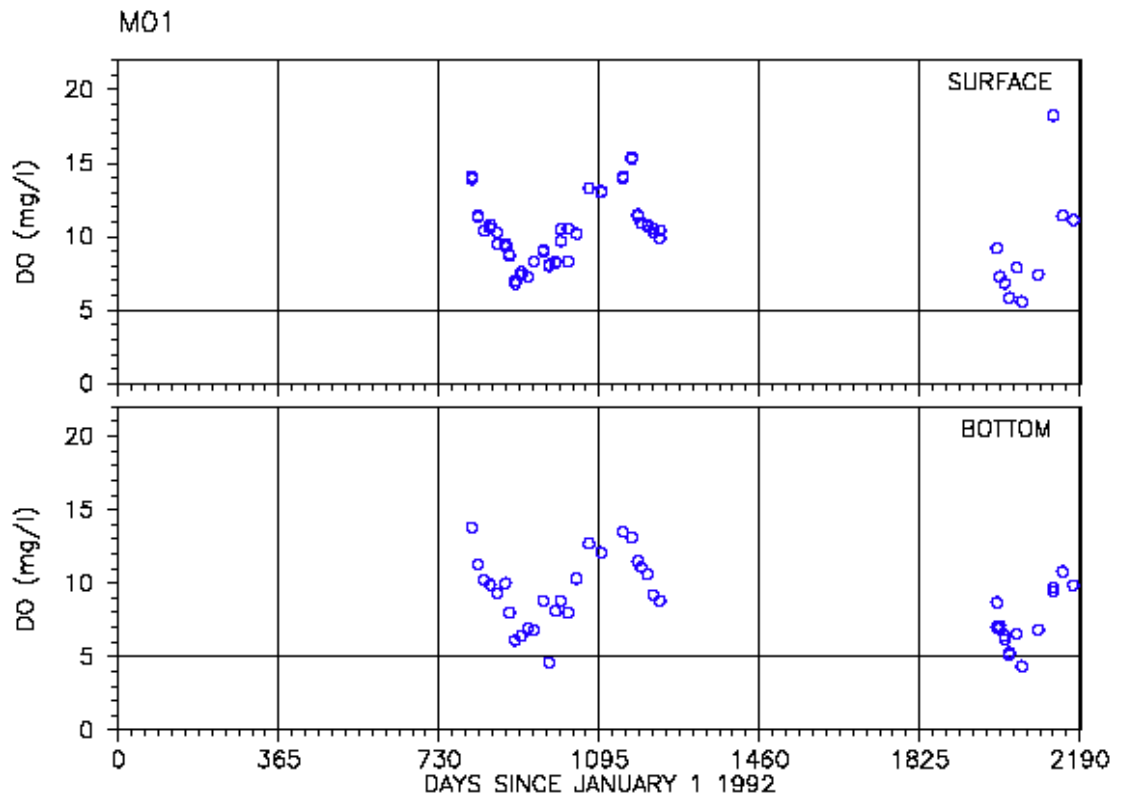
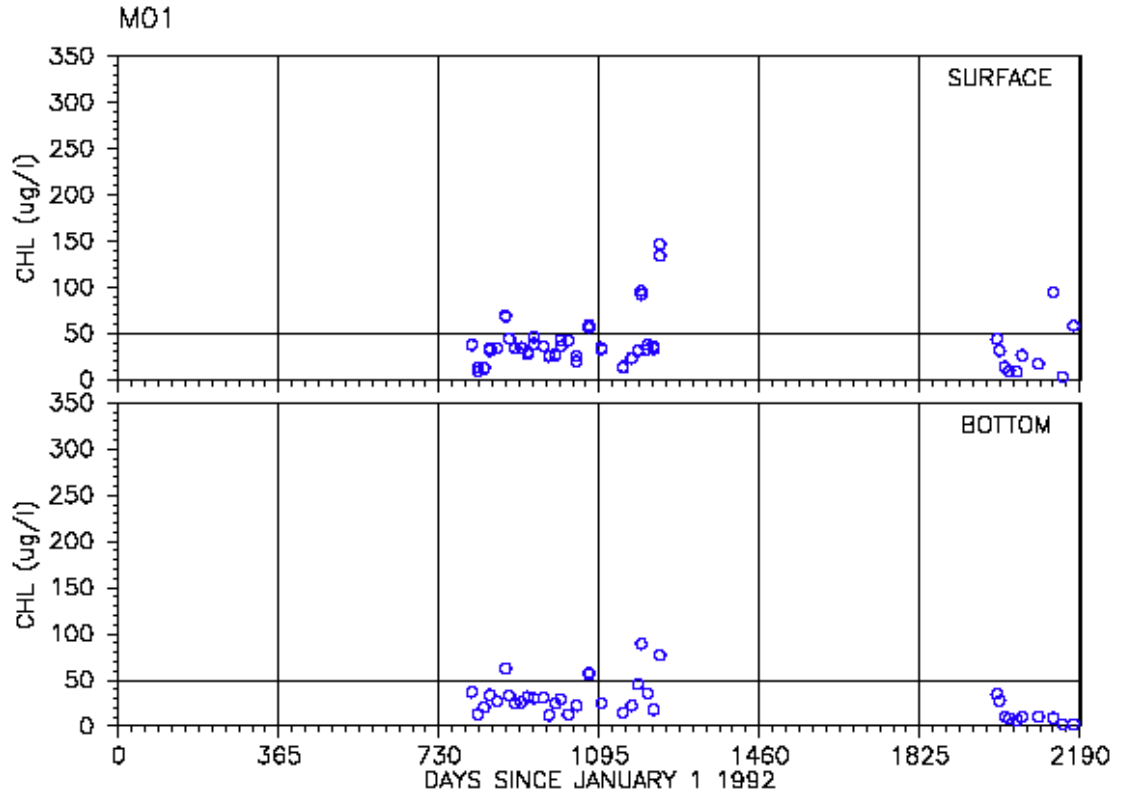


Fig. 2. Water quality monitoring data for chlorophyll a and dissolved oxygen in Back River (M01)

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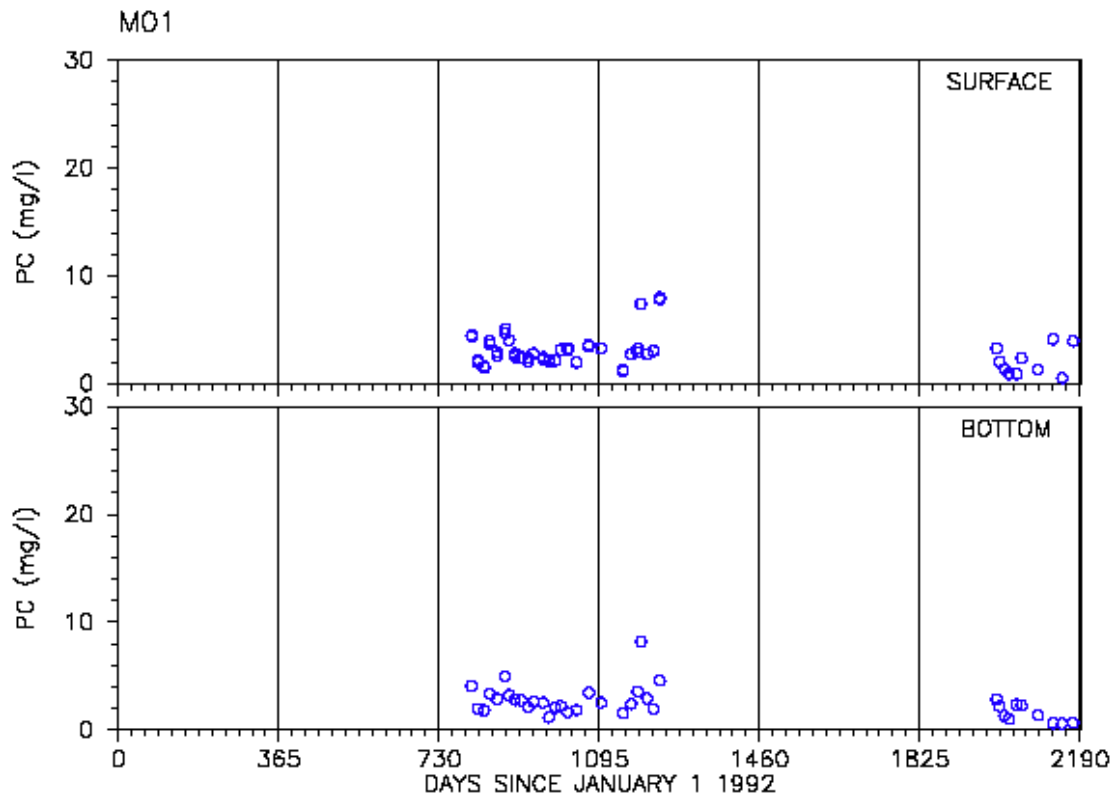
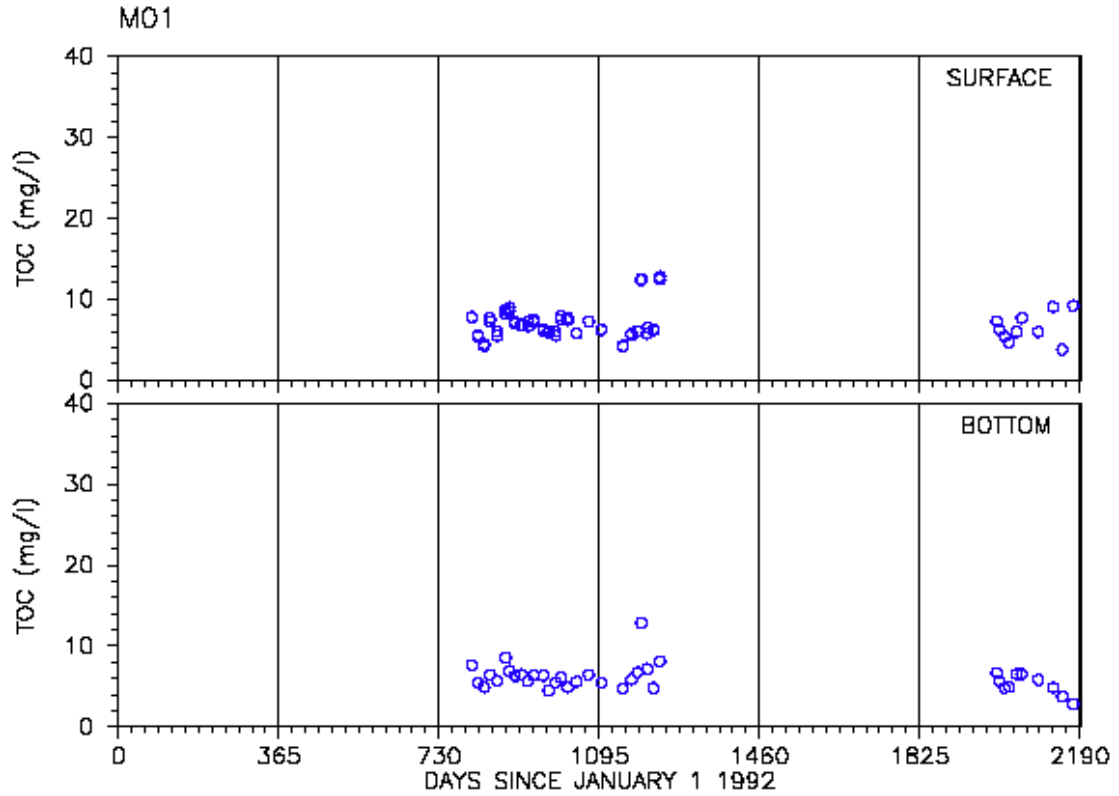


Fig. 3. Water quality monitoring data for total organic carbon and particulate organic carbon in Back River (M01)

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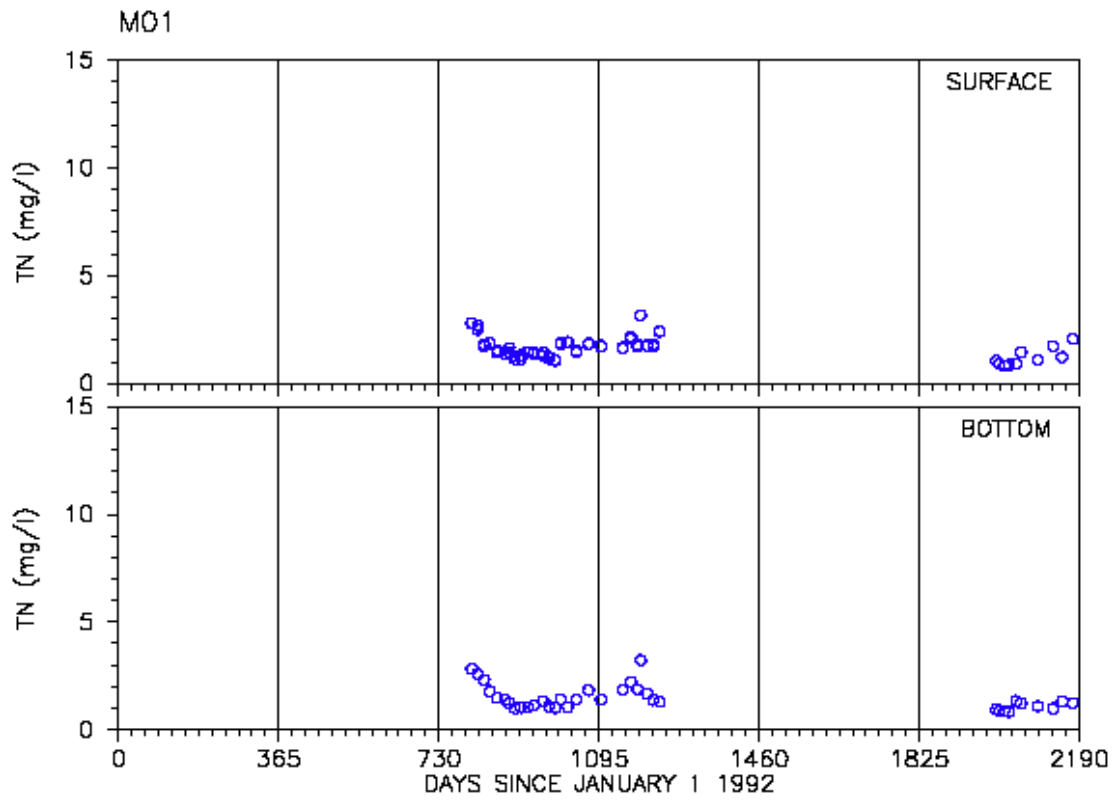
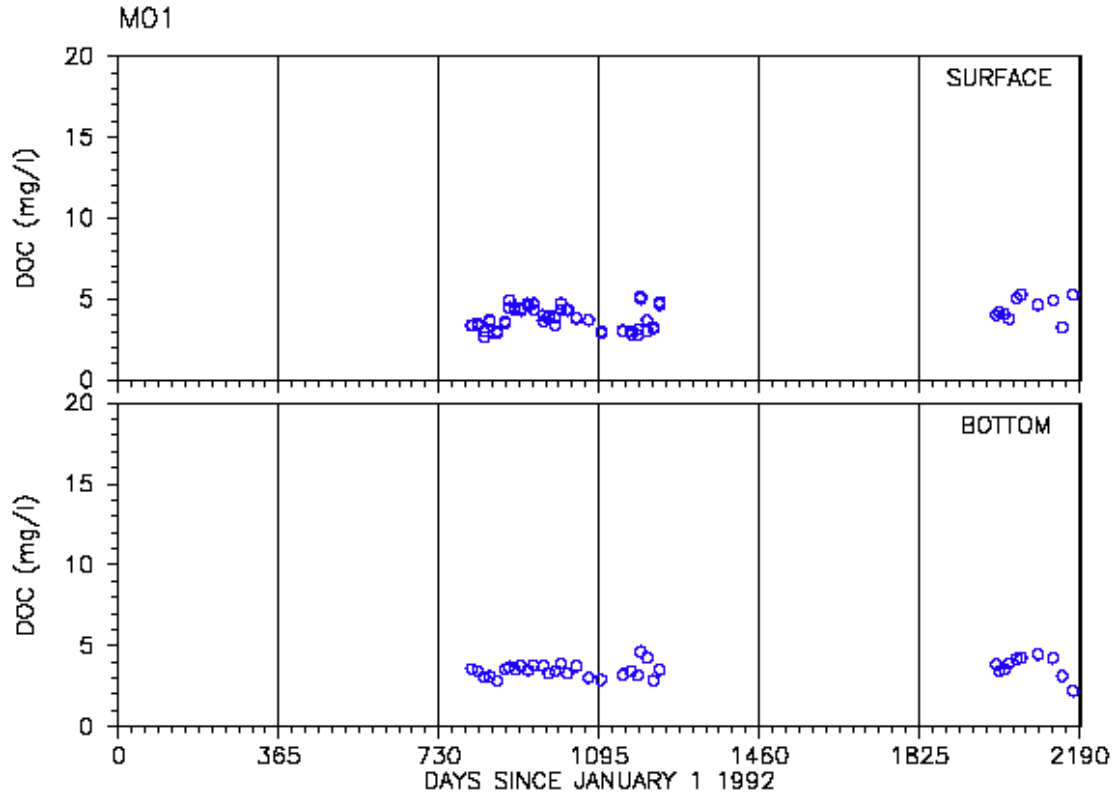


Fig. 4. Water quality monitoring data for dissolved organic carbon and total nitrogen in Back River (M01)

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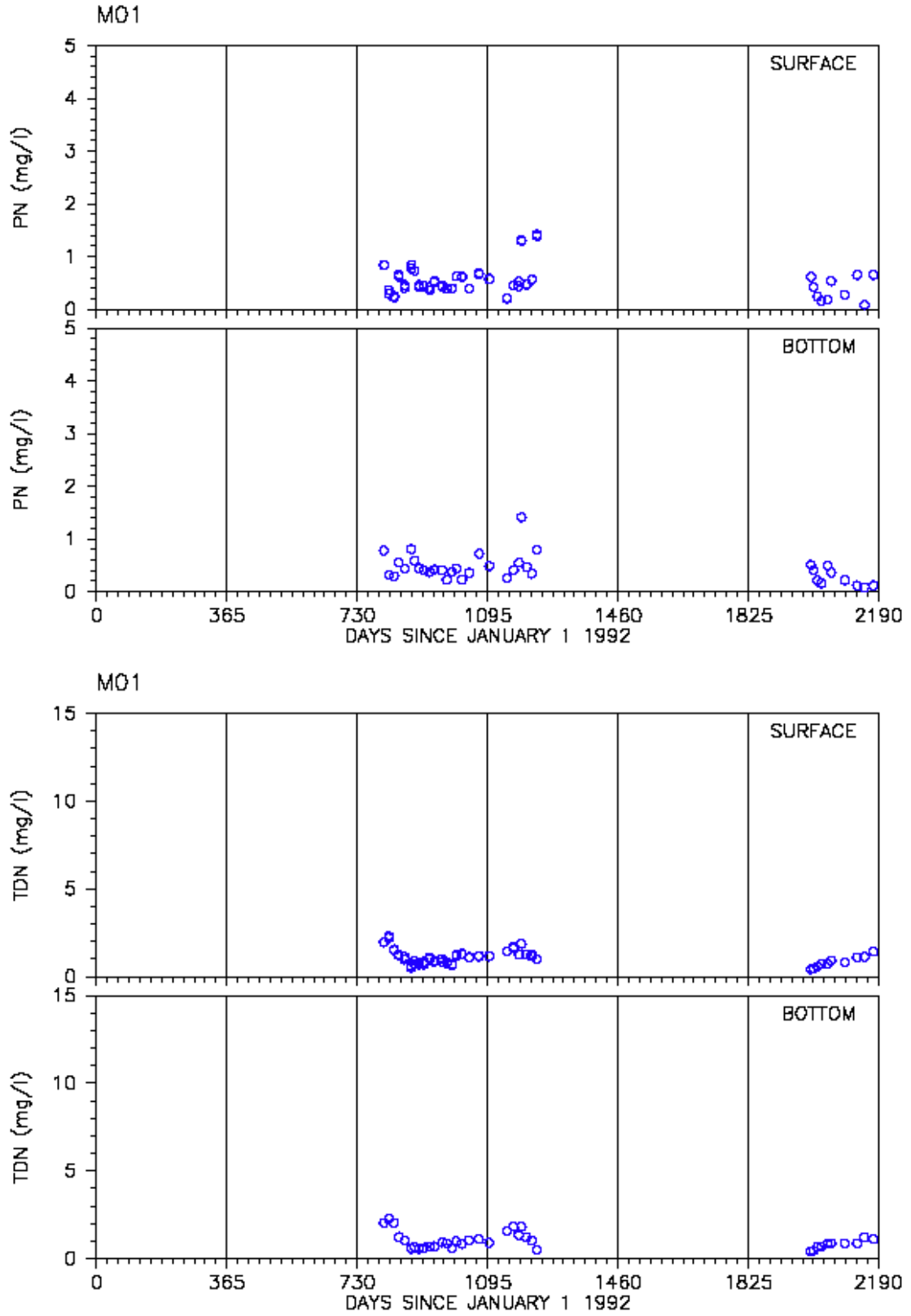


Fig. 5. Water quality monitoring data for particulate nitrogen and total dissolved nitrogen in Back River (M01)

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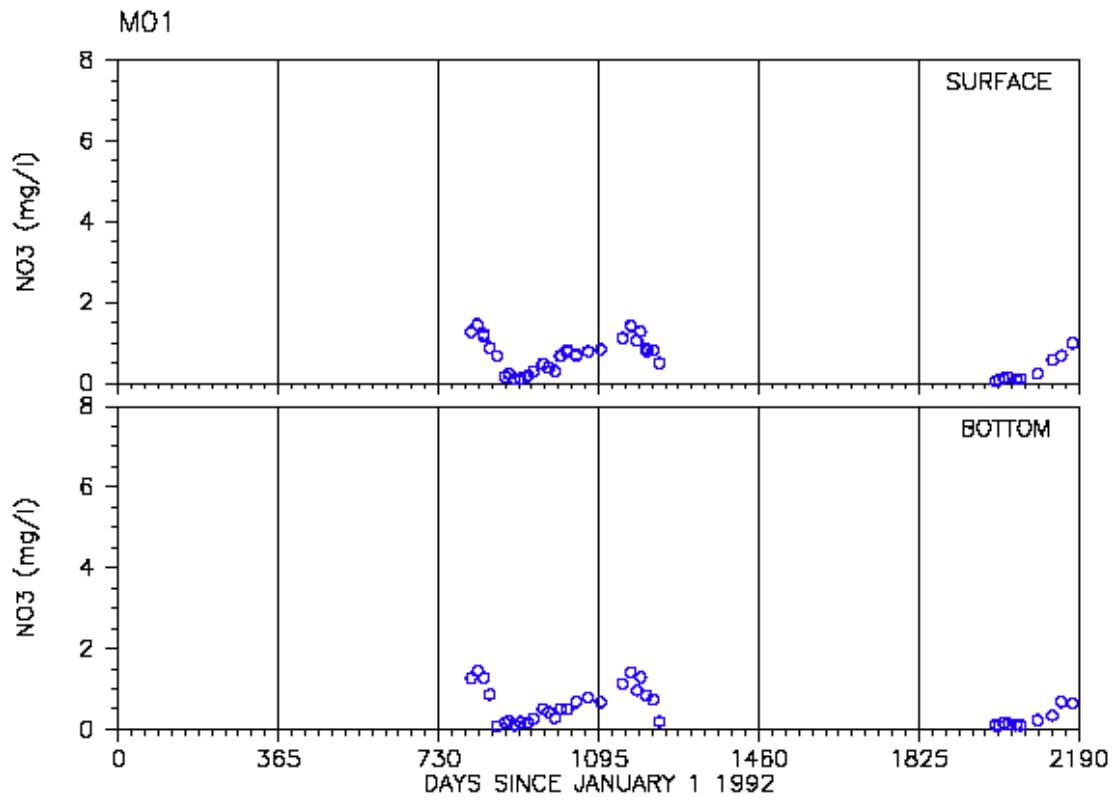
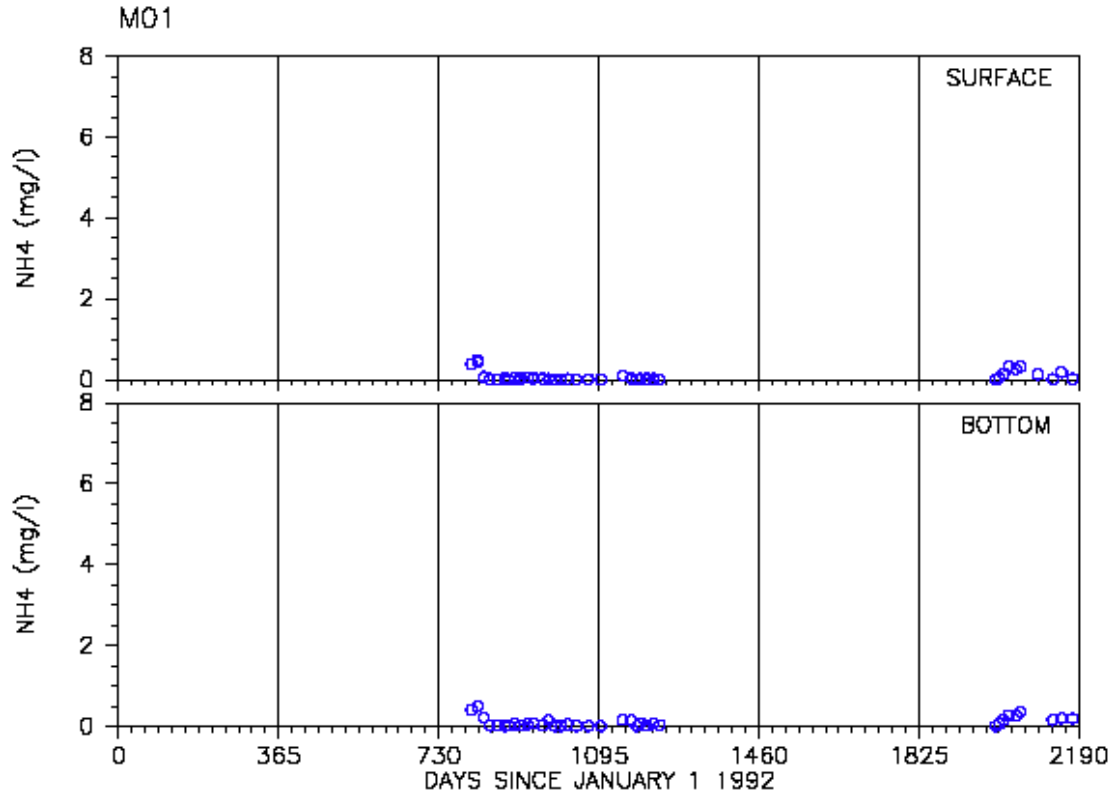


Fig. 6. Water quality monitoring data for ammonia and nitrate nitrogen in Back River (M01)

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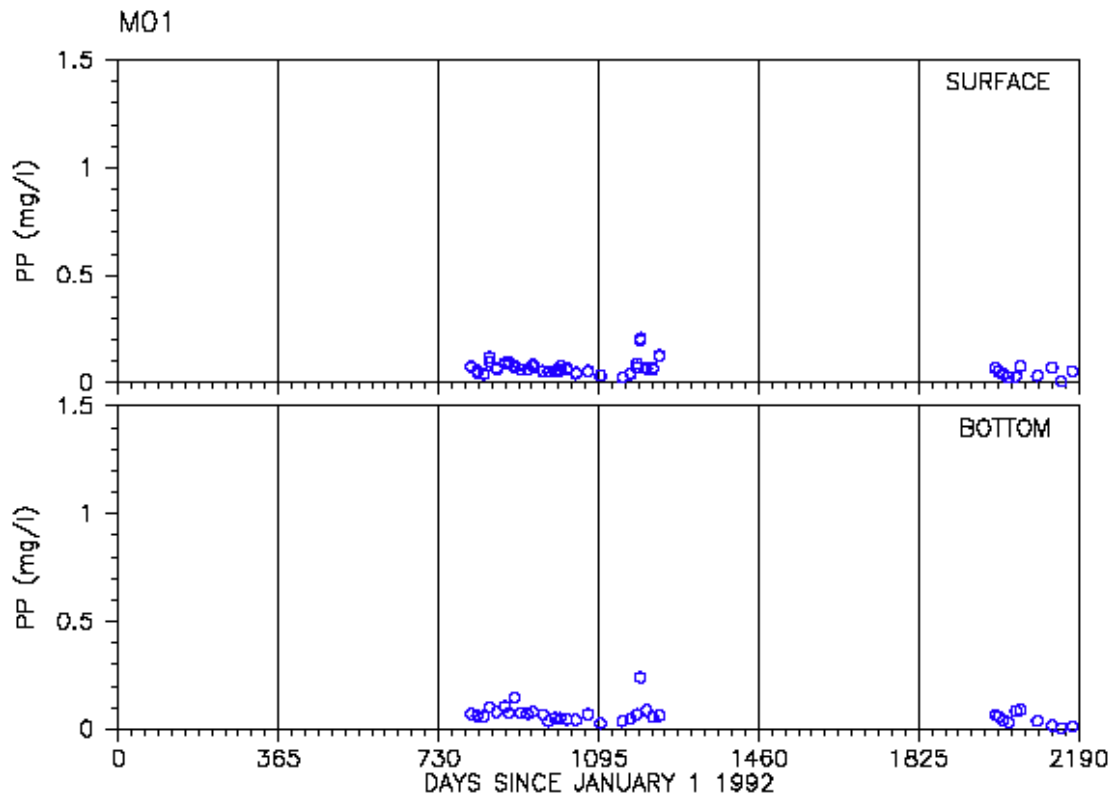
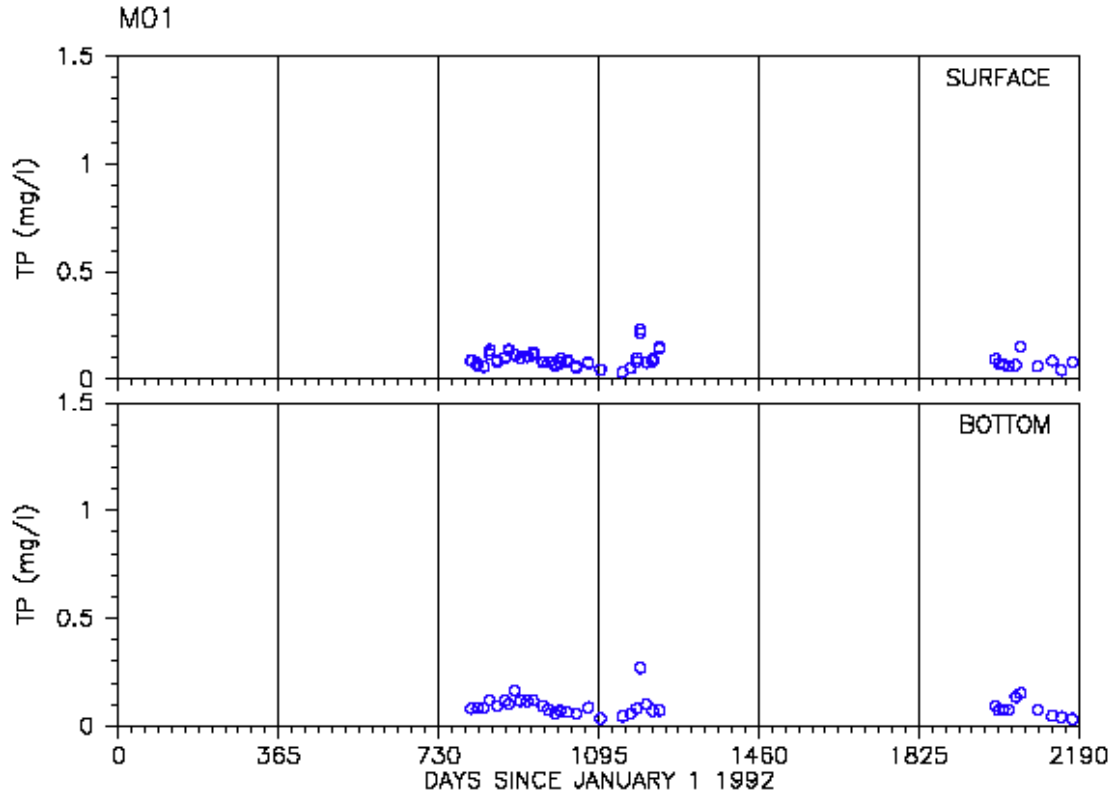


Fig. 7. Water quality monitoring data for total phosphorus and particulate phosphorus in Back River (M01)

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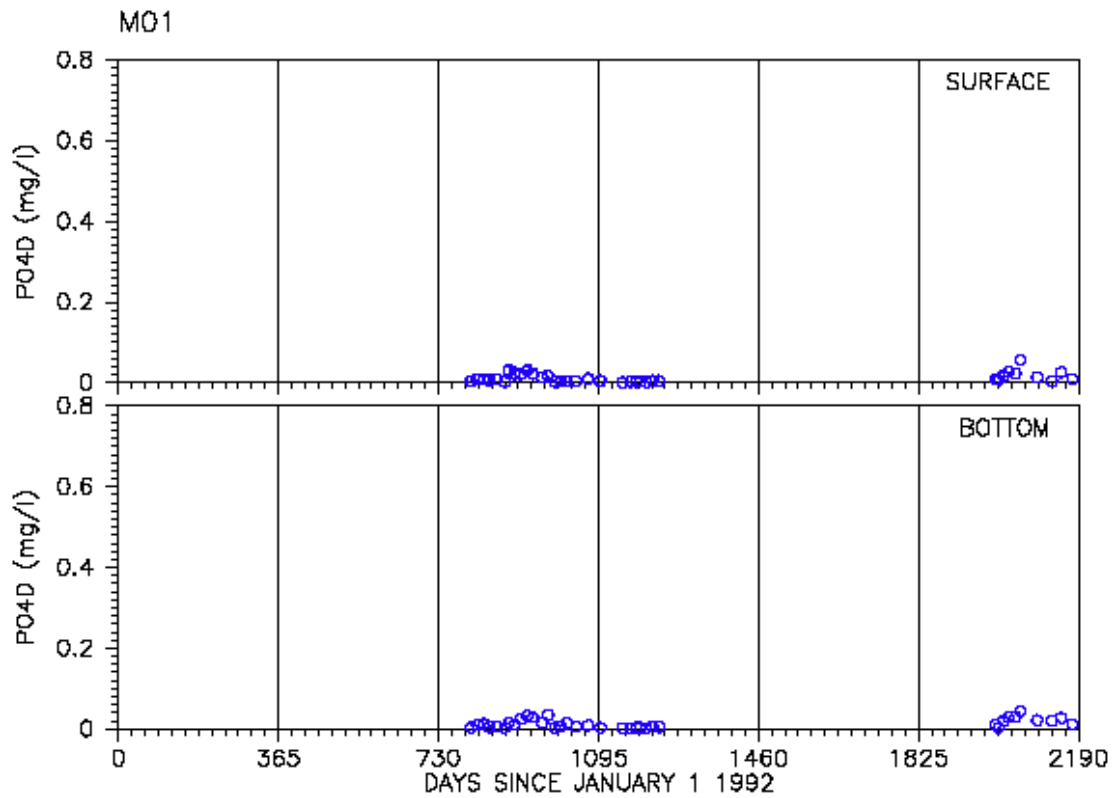
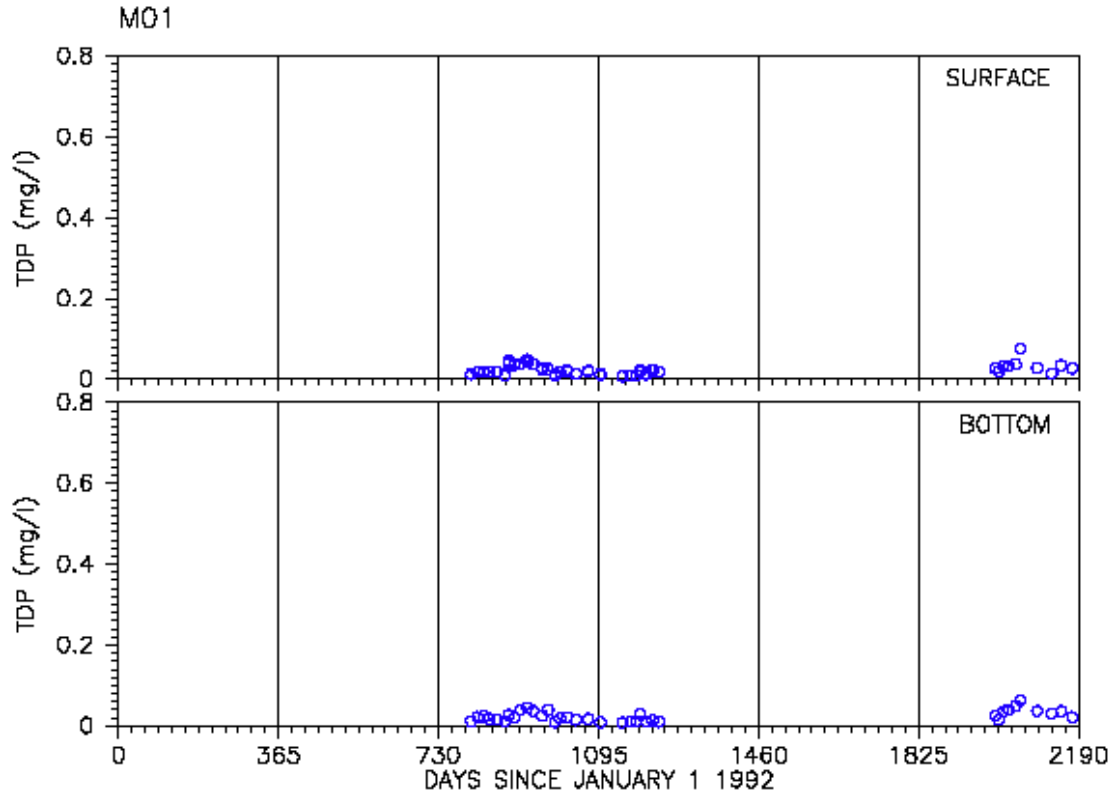


Fig. 8. Water quality monitoring data for total dissolved phosphorus and dissolved phosphate in Back River (M01)

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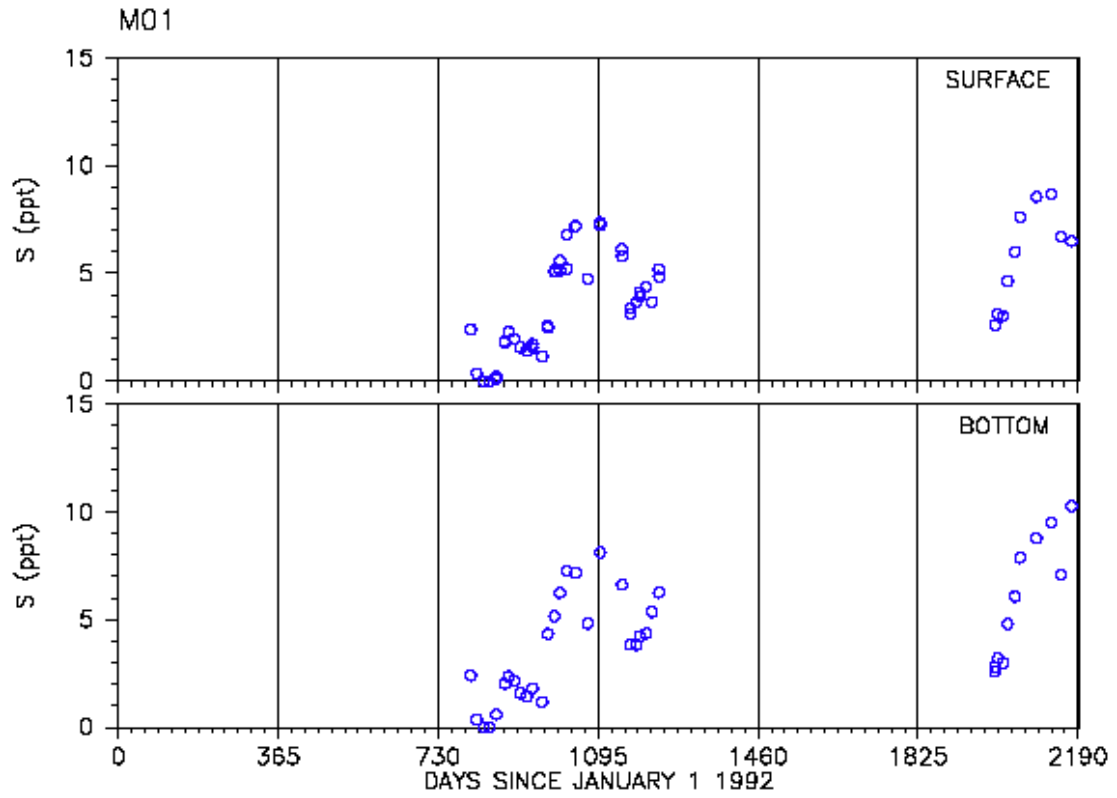


Fig. 9. Water quality monitoring data for salinity in Back River (M01)

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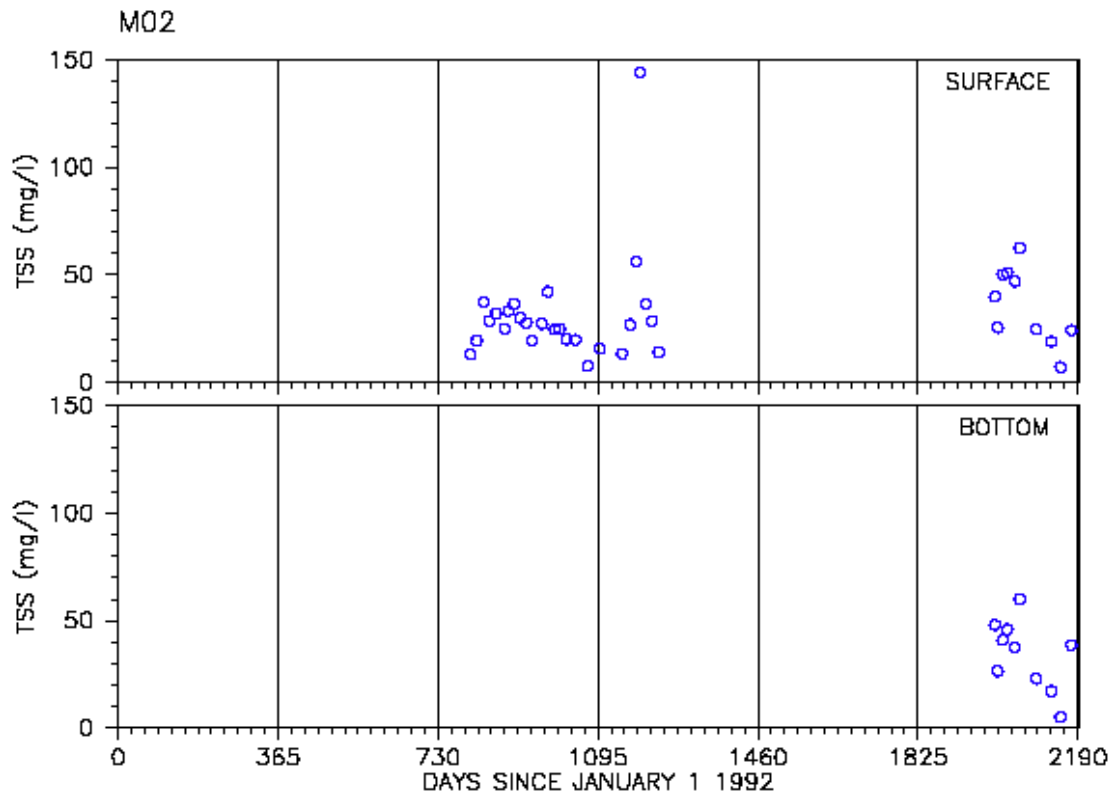
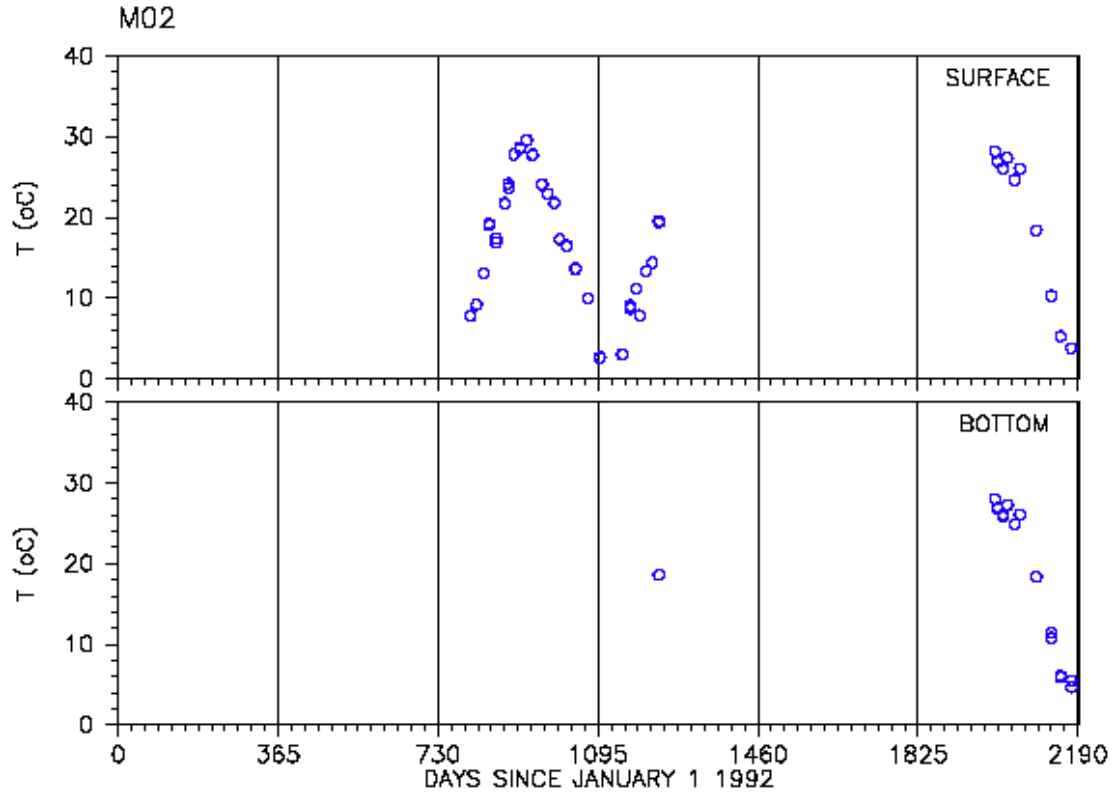


Fig. 10. Water quality monitoring data for temperature and total suspended solids in Back River (M02)

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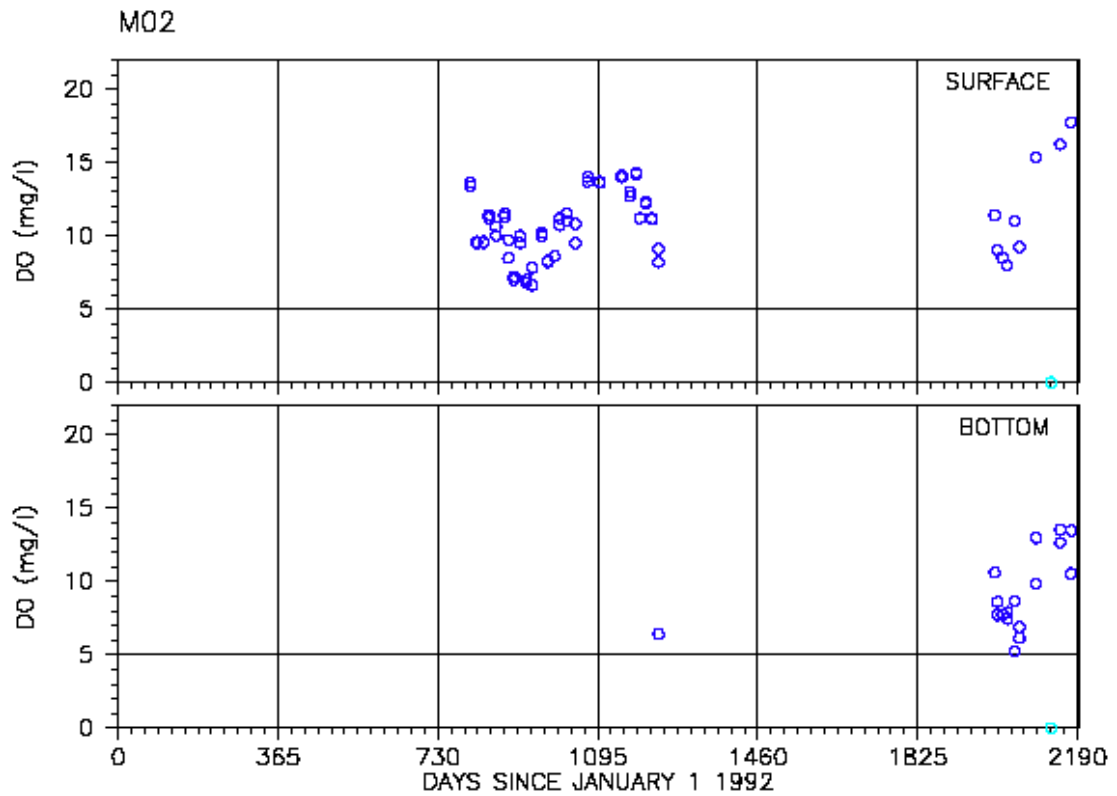
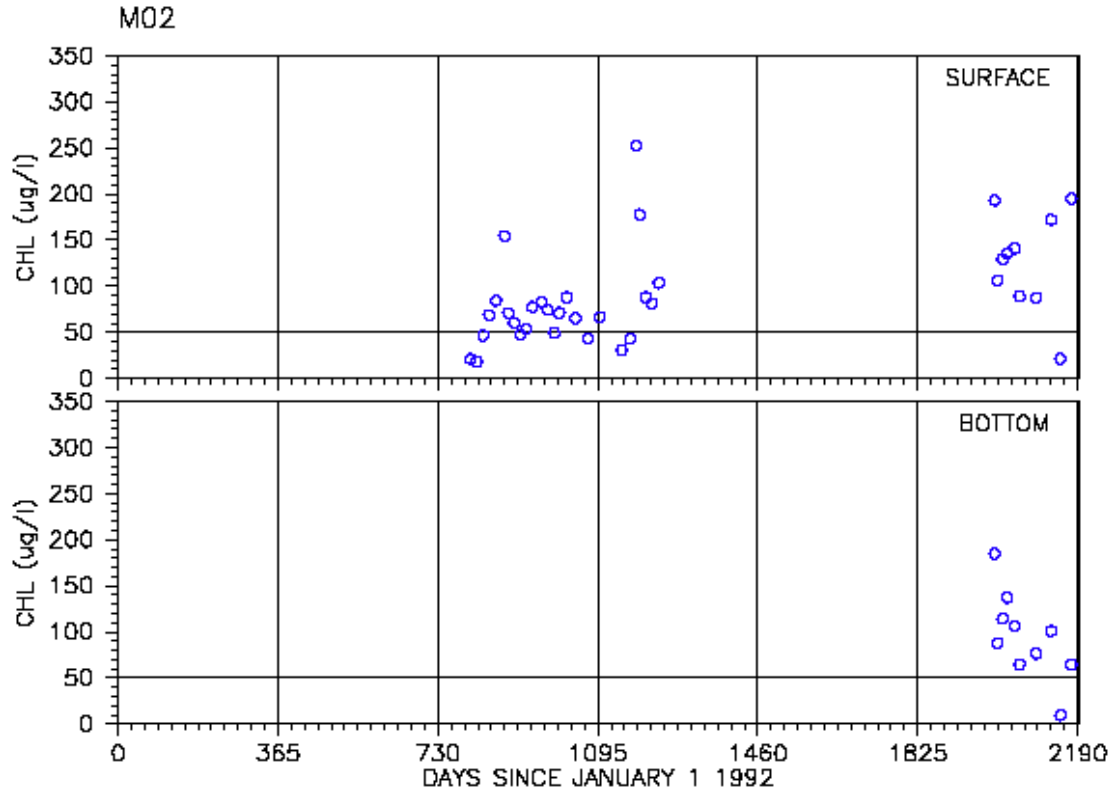


Fig. 11. Water quality monitoring data for chlorophyll a and dissolved oxygen in Back River (M02)

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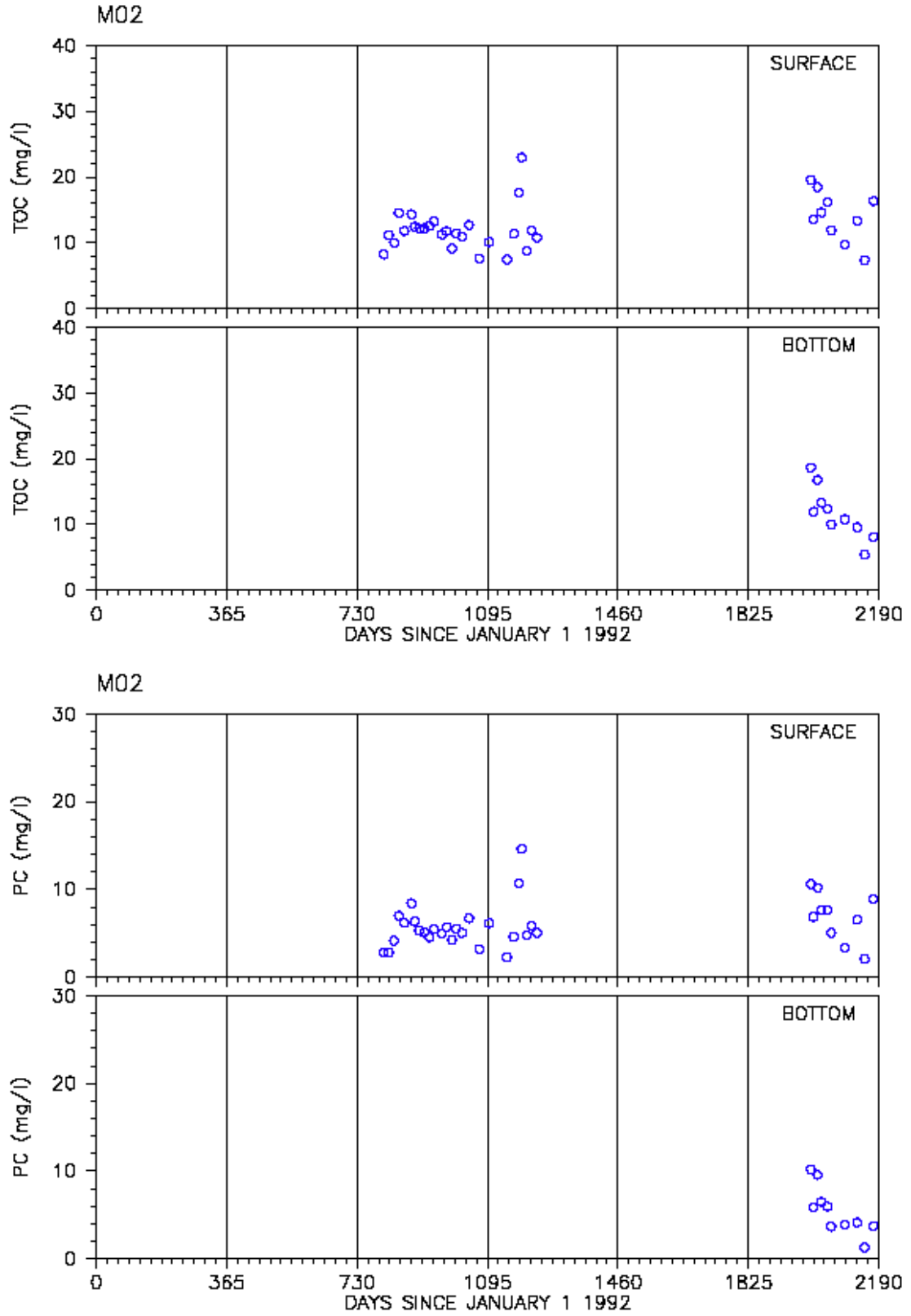


Fig. 12. Water quality monitoring data for total organic carbon and particulate organic carbon in Back River (M02)

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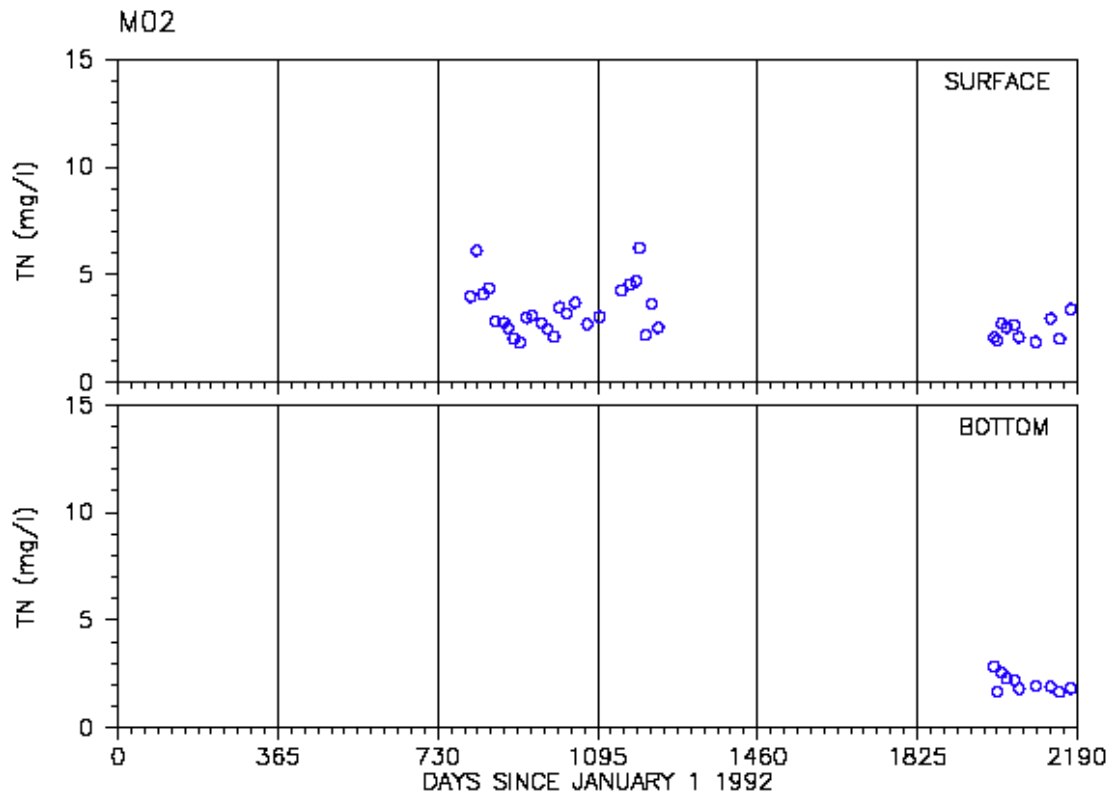
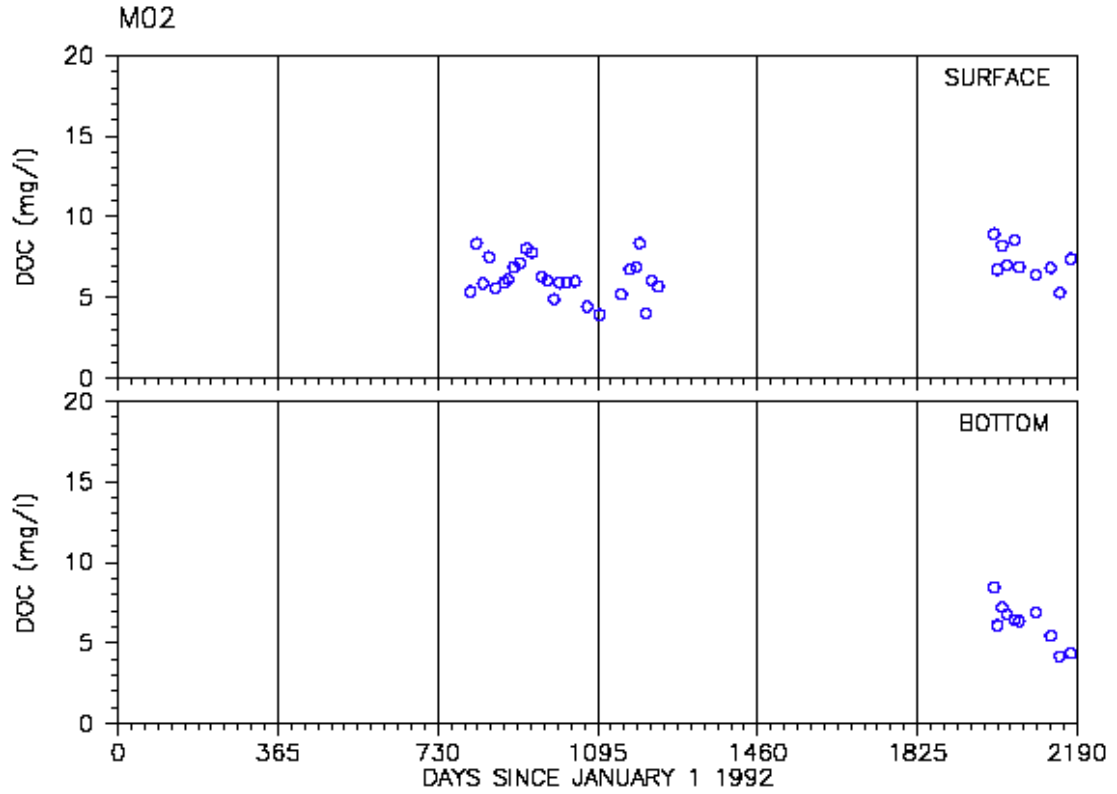


Fig. 13. Water quality monitoring data for dissolved organic carbon and total nitrogen in Back River (M02)

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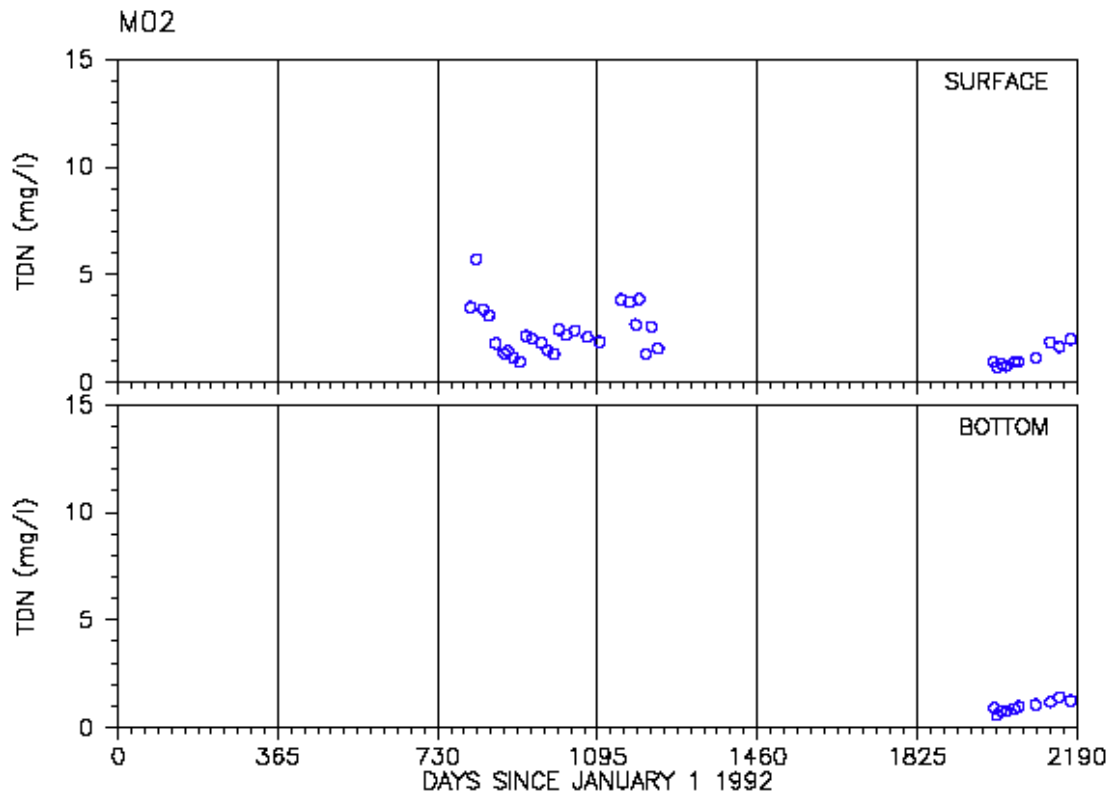
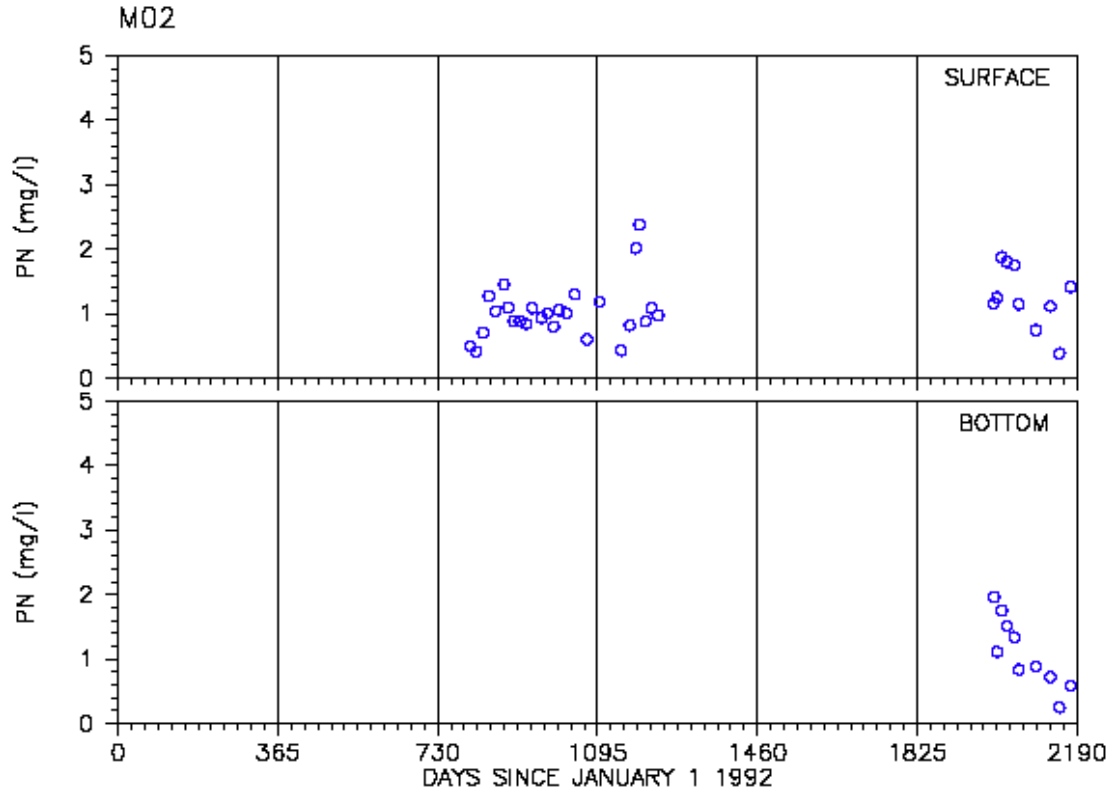


Fig. 14. Water quality monitoring data for particulate nitrogen and total dissolved nitrogen in Back River (M02)

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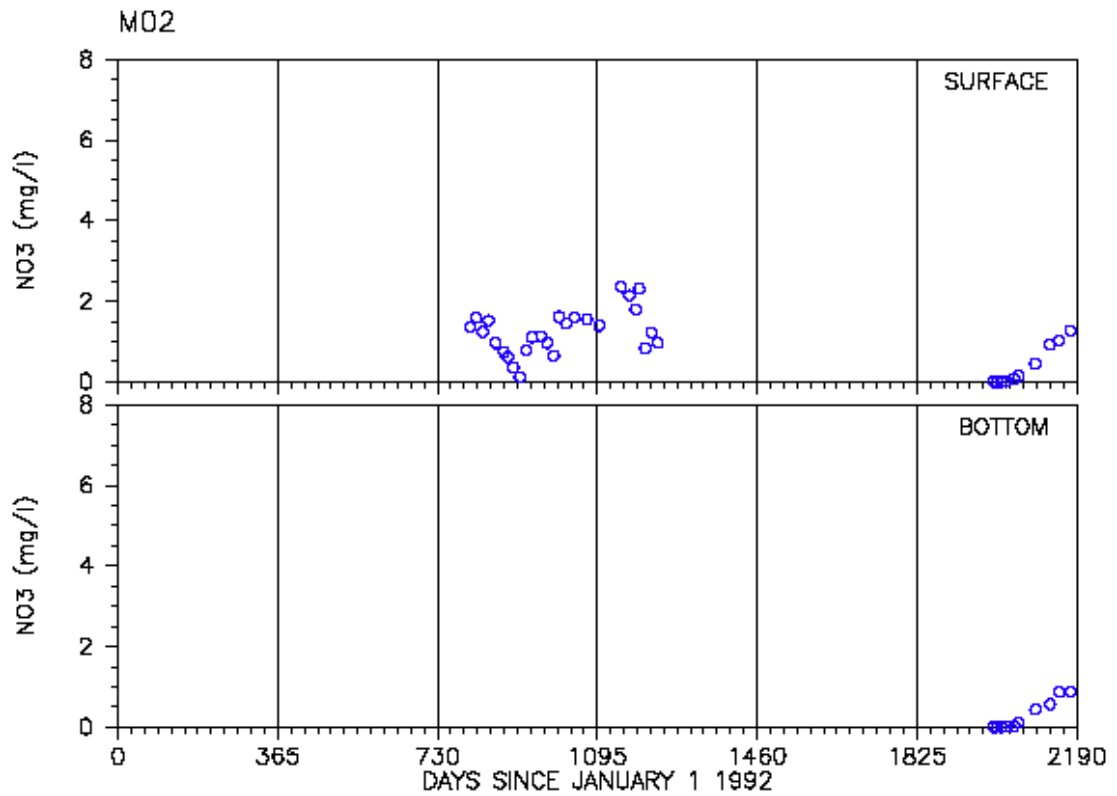
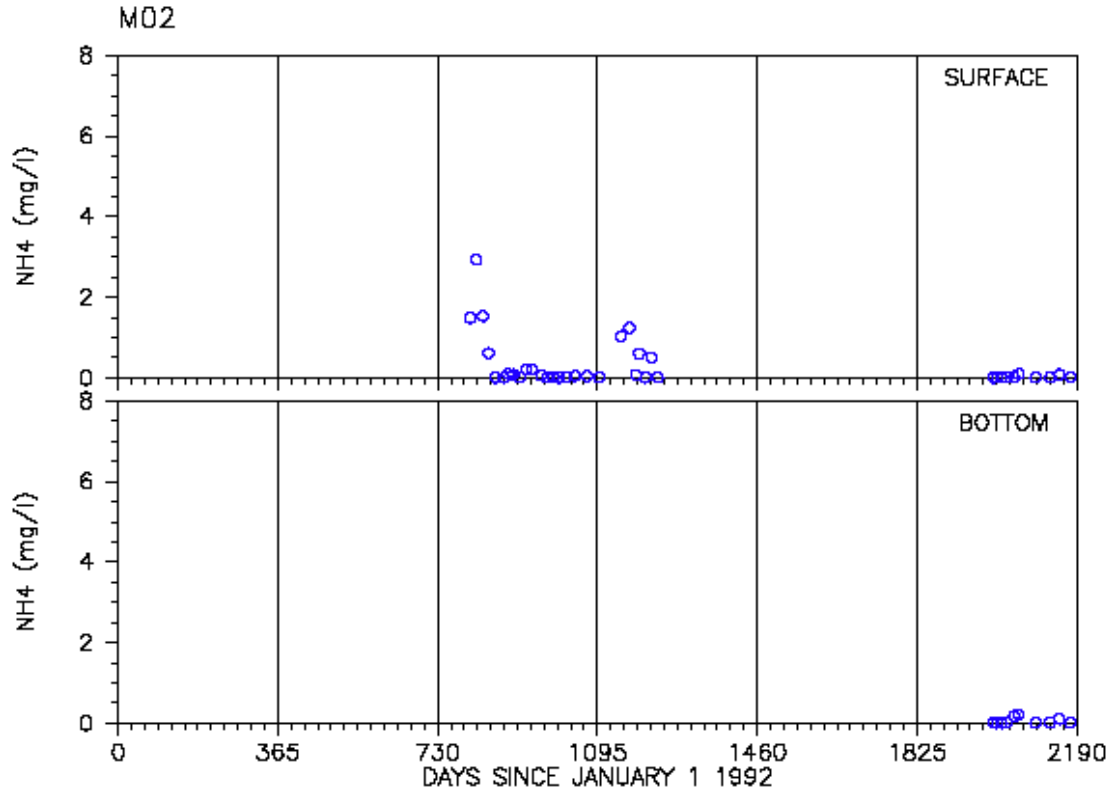


Fig. 15. Water quality monitoring data for ammonia and nitrate nitrogen in Back River (M02)

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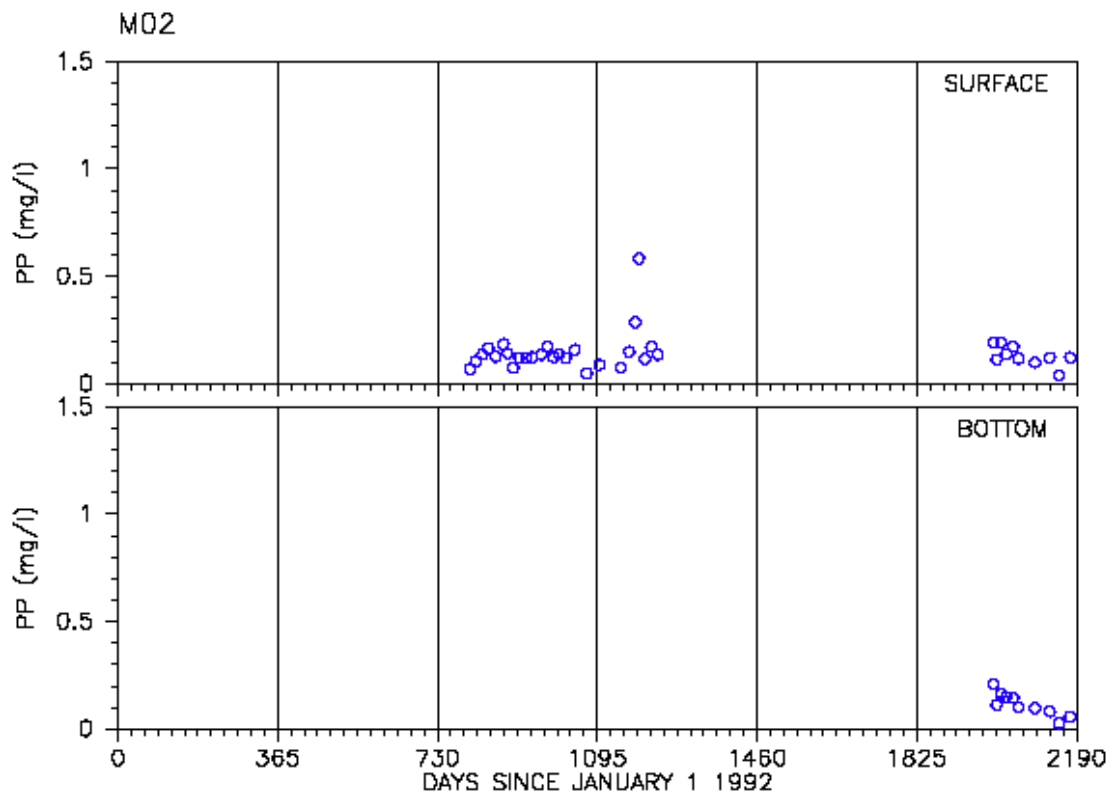
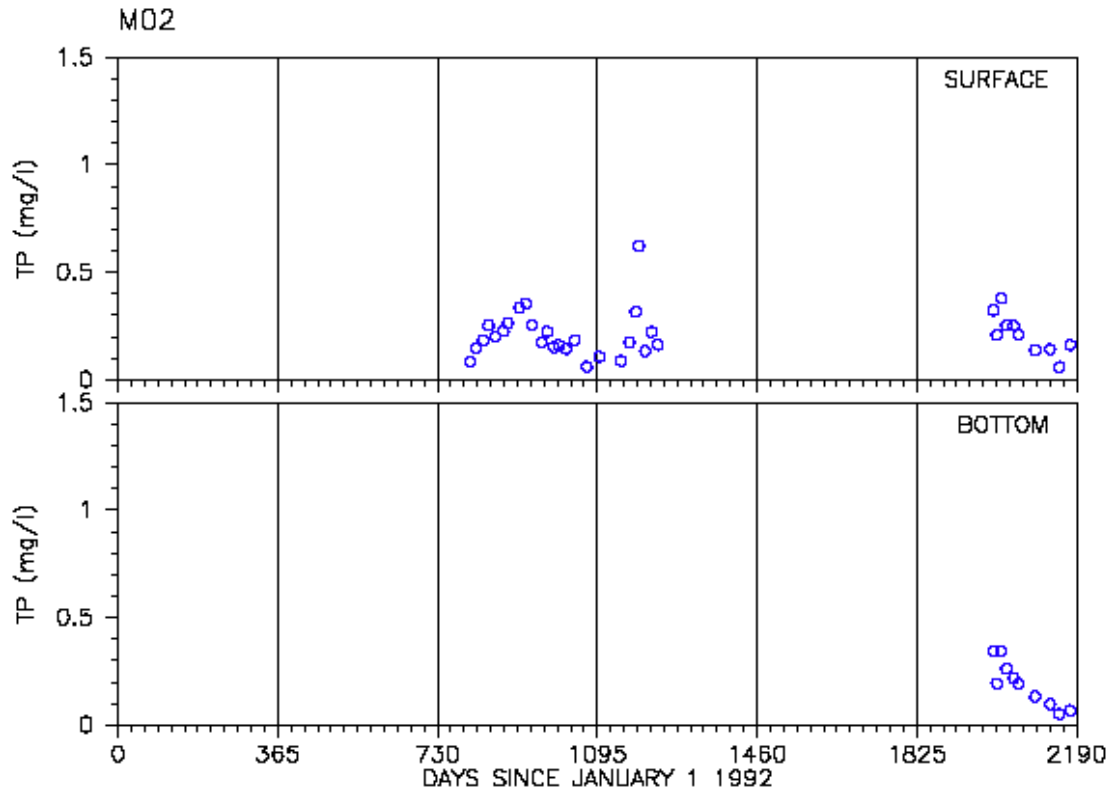


Fig. 16. Water quality monitoring data for total phosphorus and particulate phosphorus in Back River (M02)

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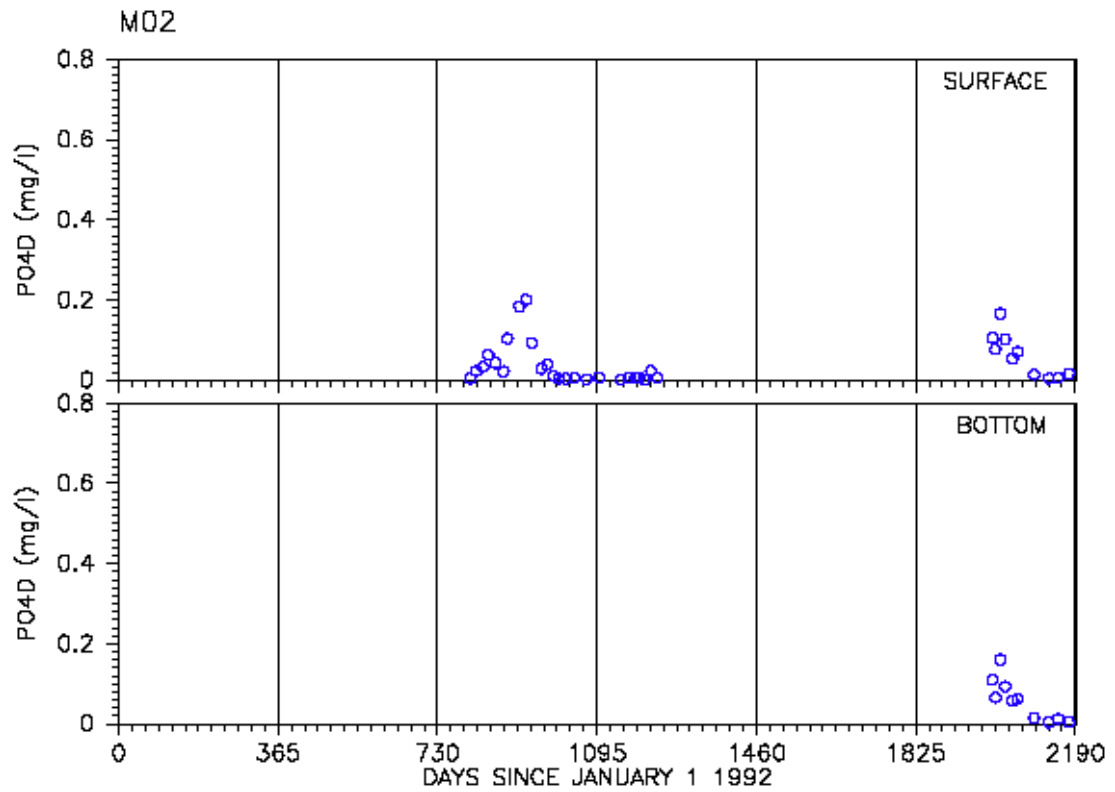
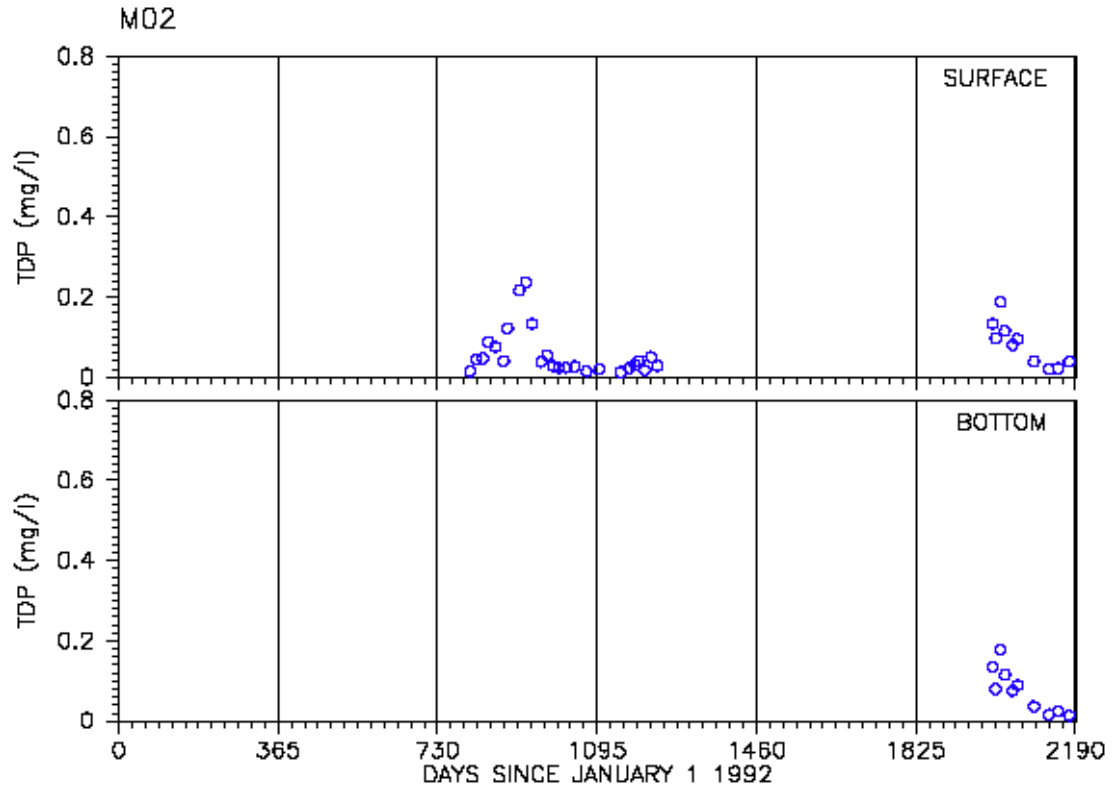


Fig. 17. Water quality monitoring data for total dissolved phosphorus and dissolved phosphate in Back River (M02)

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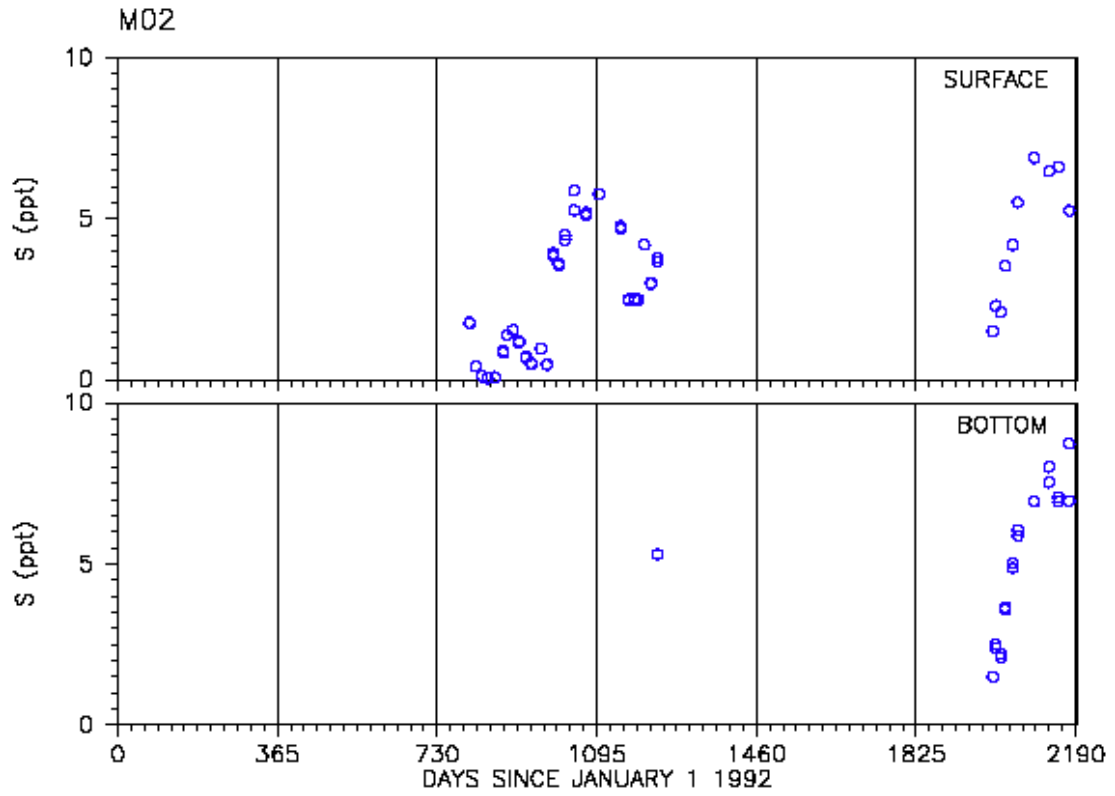


Fig. 18. Water quality monitoring data for salinity in Back River (M02)

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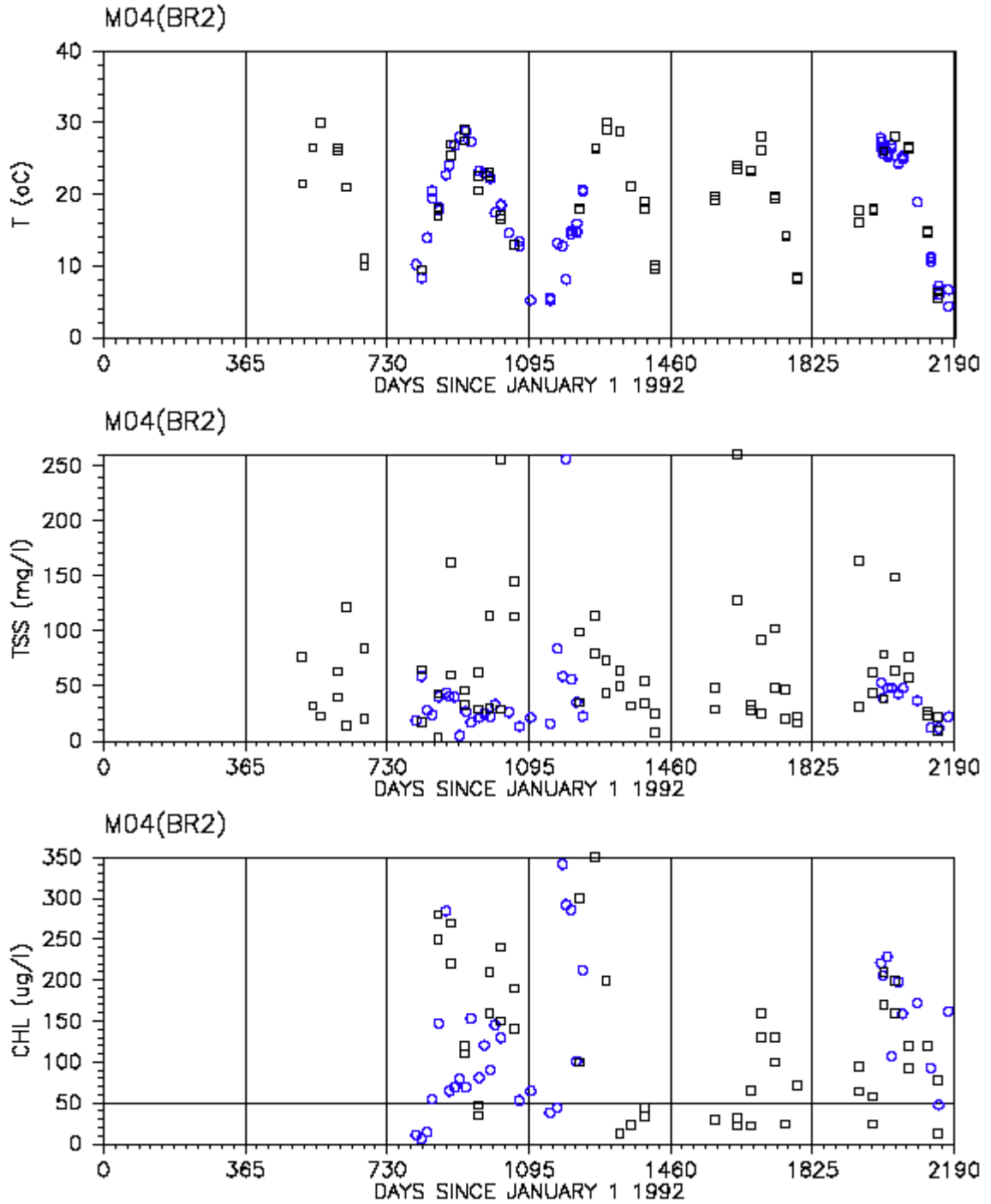


Fig. 19. Water quality monitoring data for temperature, total suspended solids, and chlorophyll a in Back River (M04)

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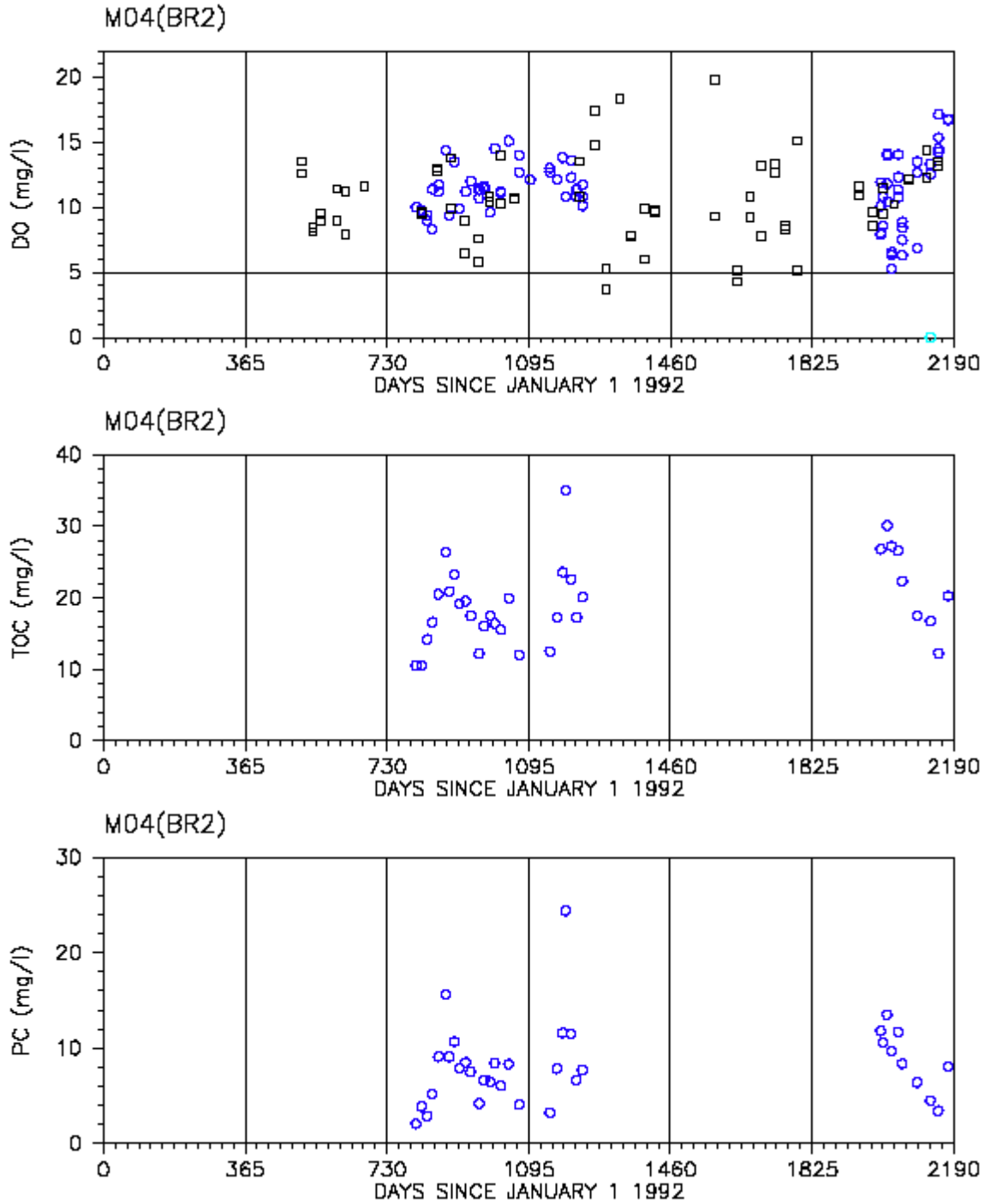


Fig. 20. Water quality monitoring data for dissolved oxygen, total organic carbon, and particulate organic carbon in Back River (M04)

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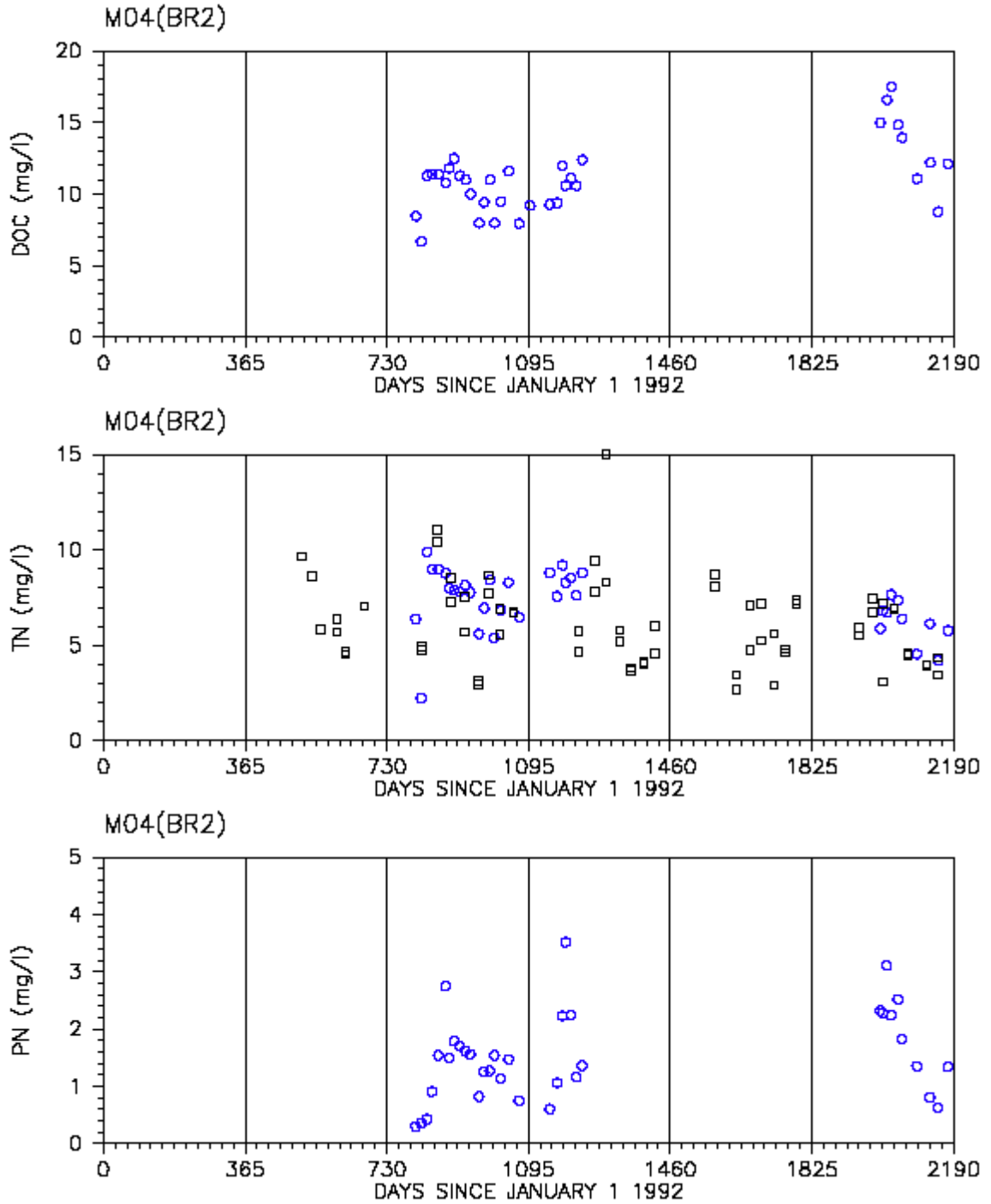


Fig. 21. Water quality monitoring data for dissolved organic carbon, total nitrogen, and particulate nitrogen in Back River (M04)

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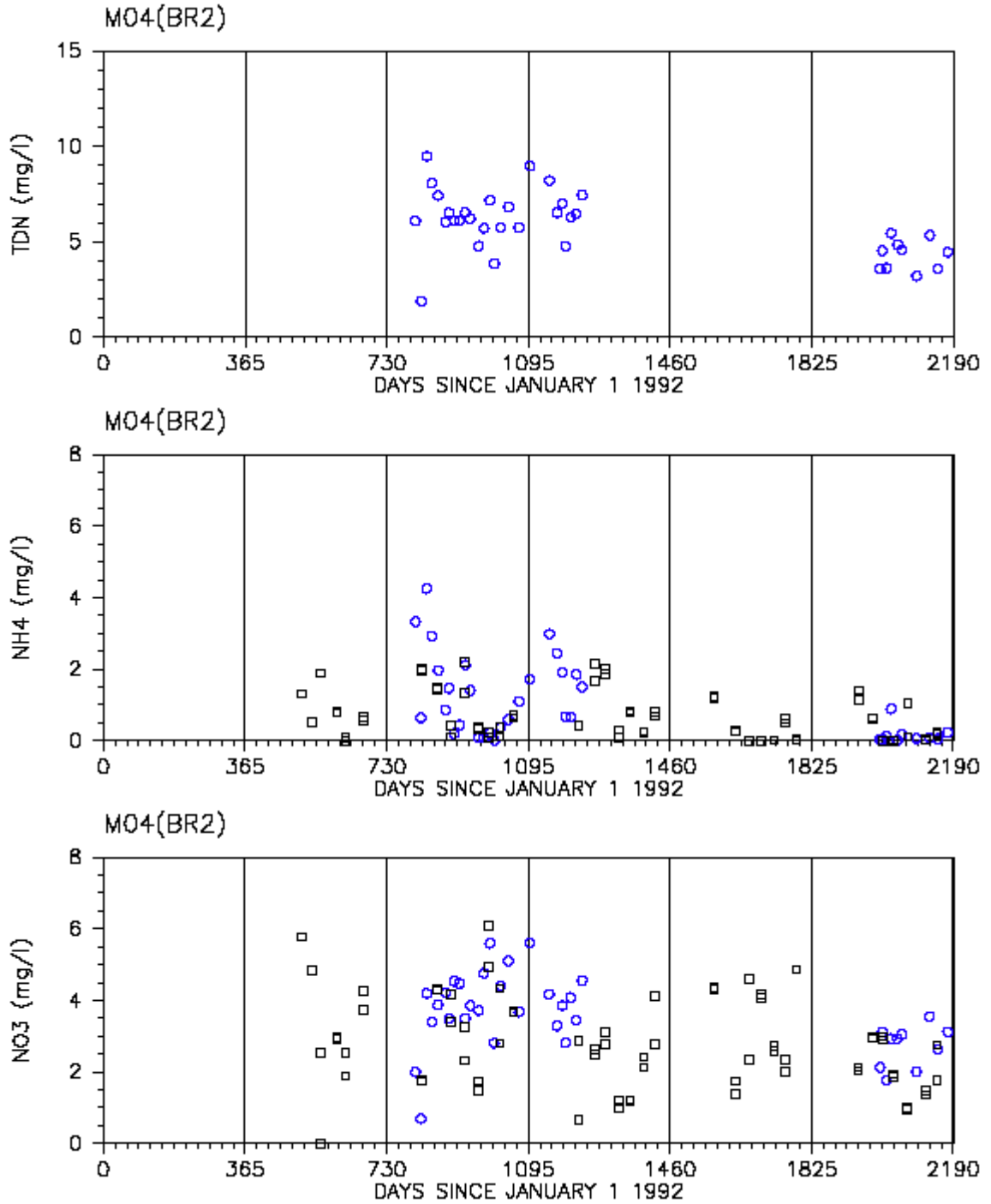


Fig. 22. Water quality monitoring data for total dissolved nitrogen, ammonia, and nitrate nitrogen in Back River (M04)

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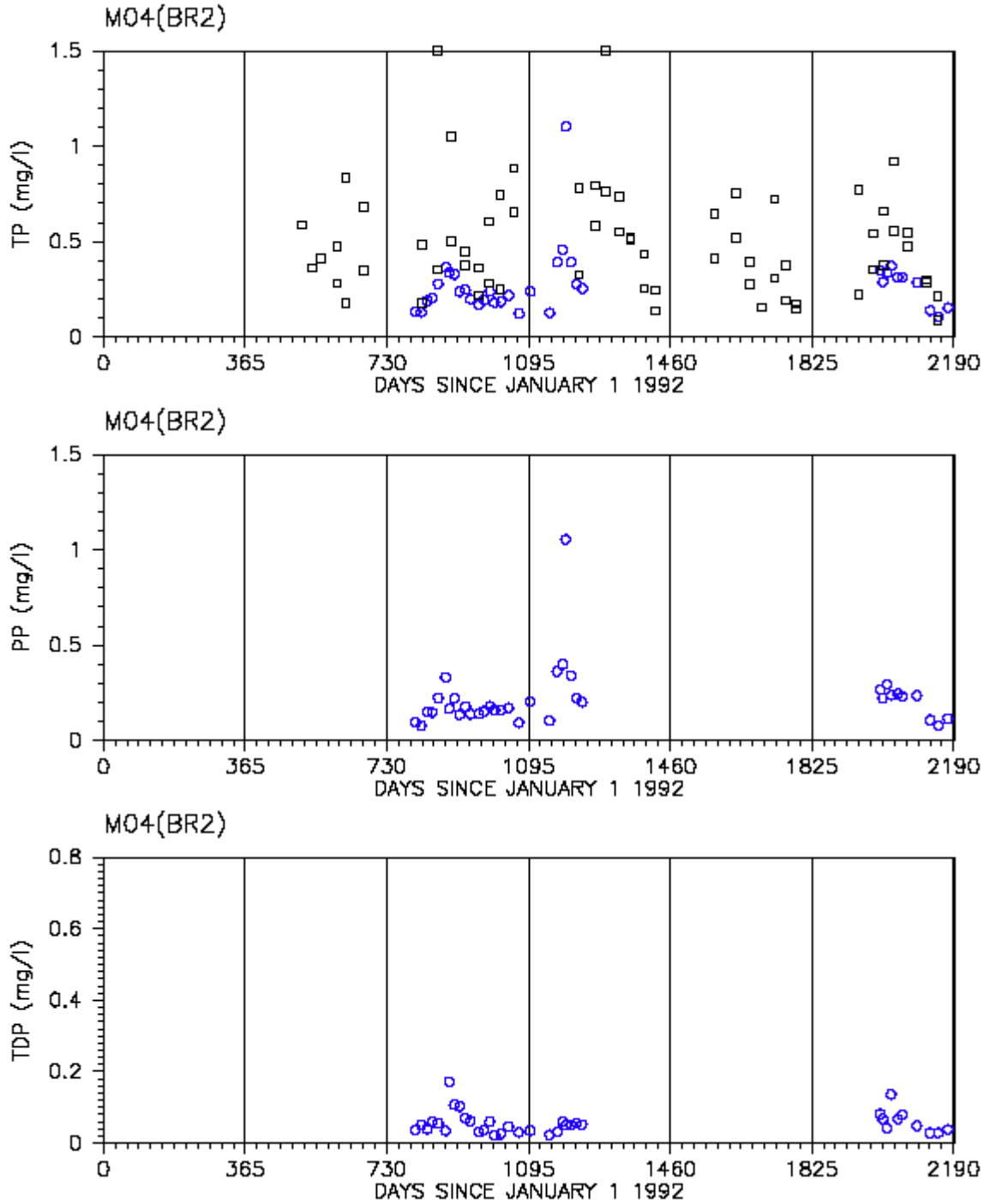


Fig. 23. Water quality monitoring data for total phosphorus, particulate phosphorus, and total dissolved phosphorus in Back River (M04)

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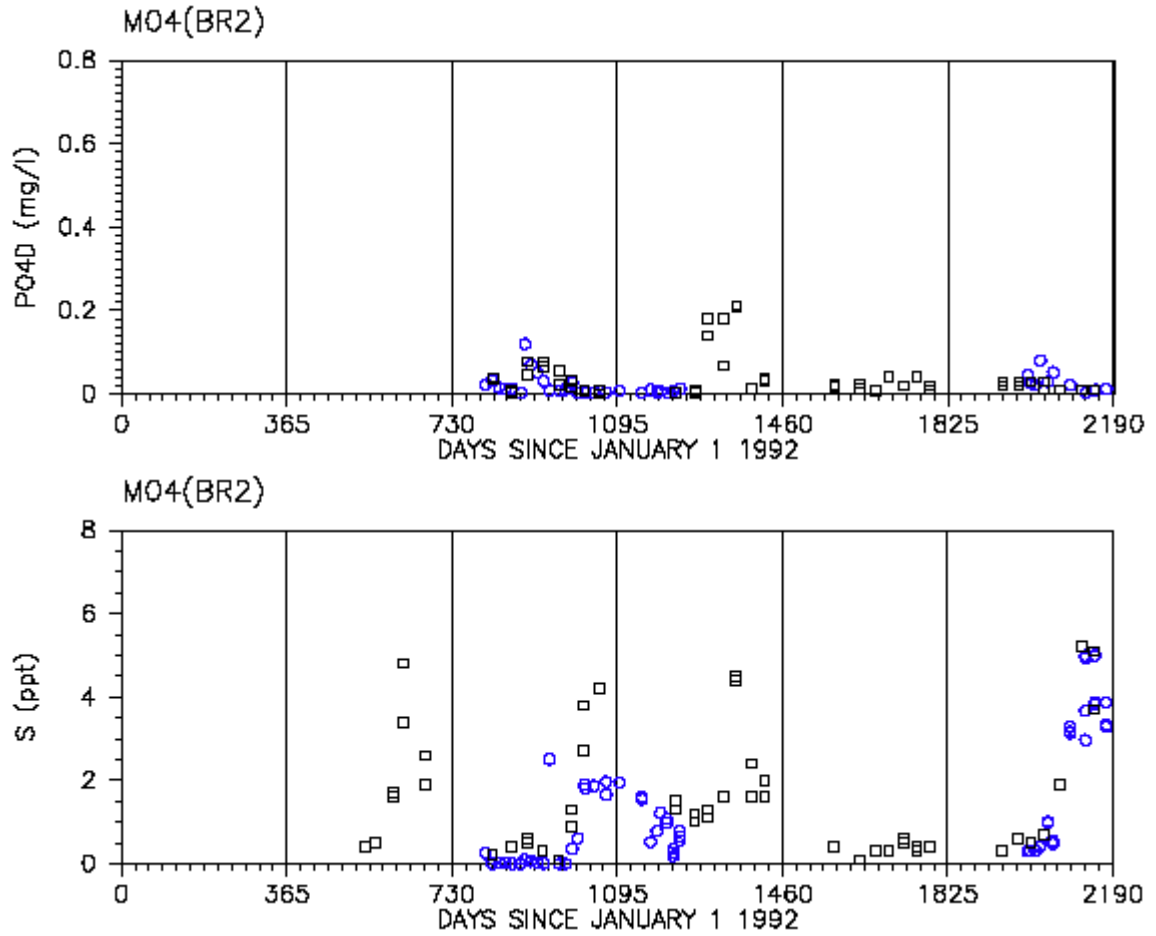


Fig. 24. Water quality monitoring data for dissolved phosphate and salinity in Back River (M04)

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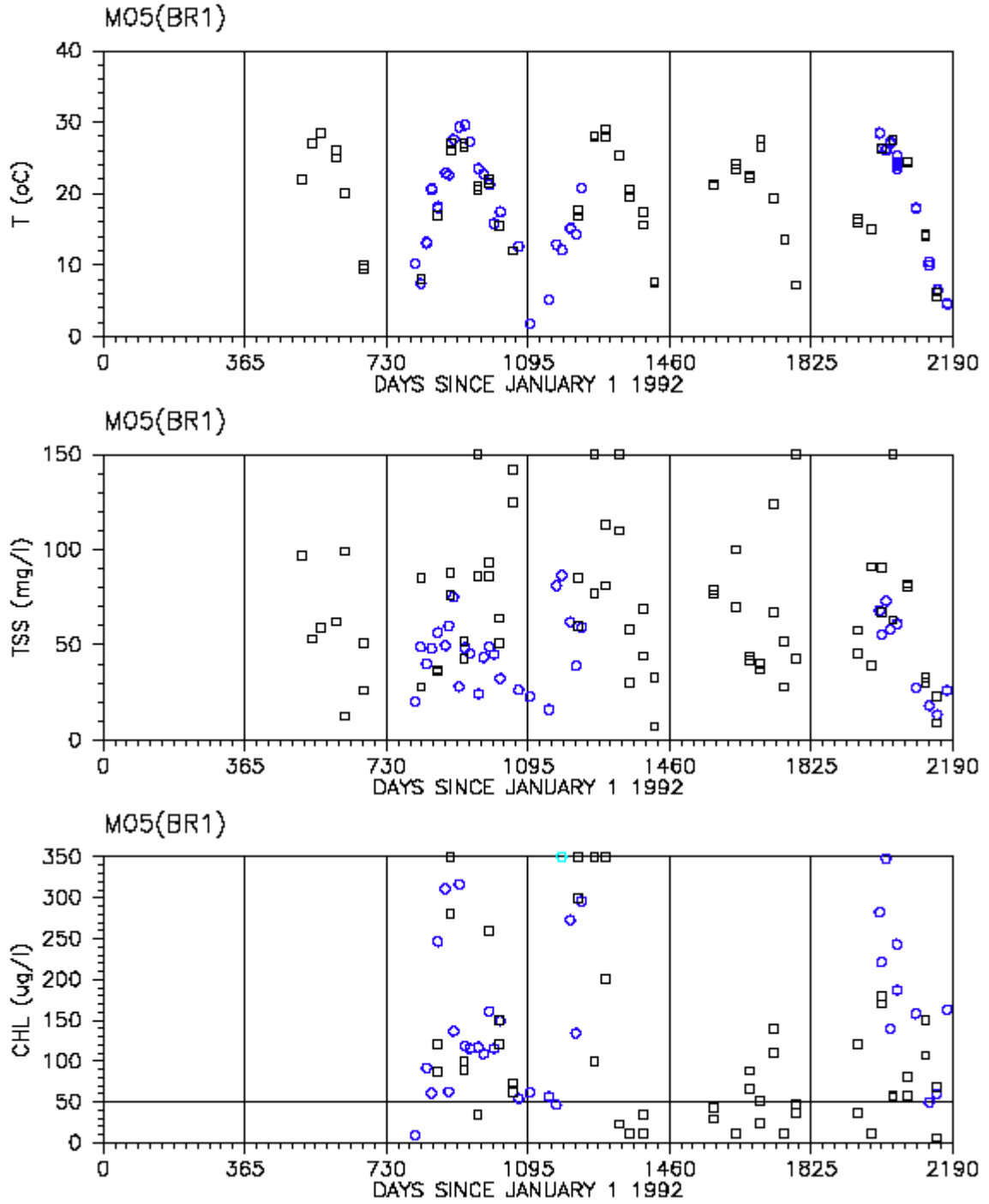


Fig. 25. Water quality monitoring data for temperature, total suspended solids, and chlorophyll a in Back River (M05)

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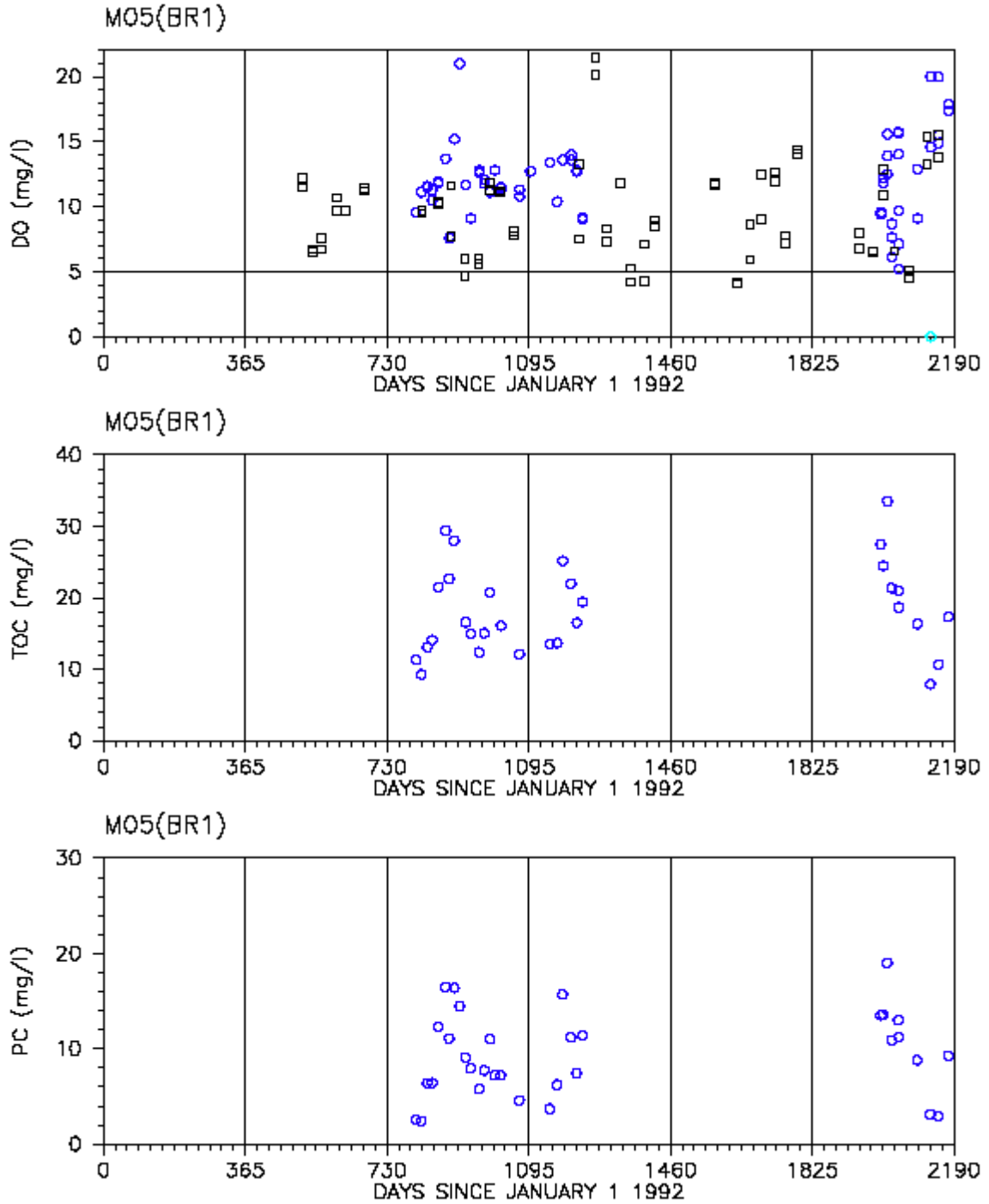


Fig. 26. Water quality monitoring data for dissolved oxygen, total organic carbon, and particulate organic carbon in Back River (M05)

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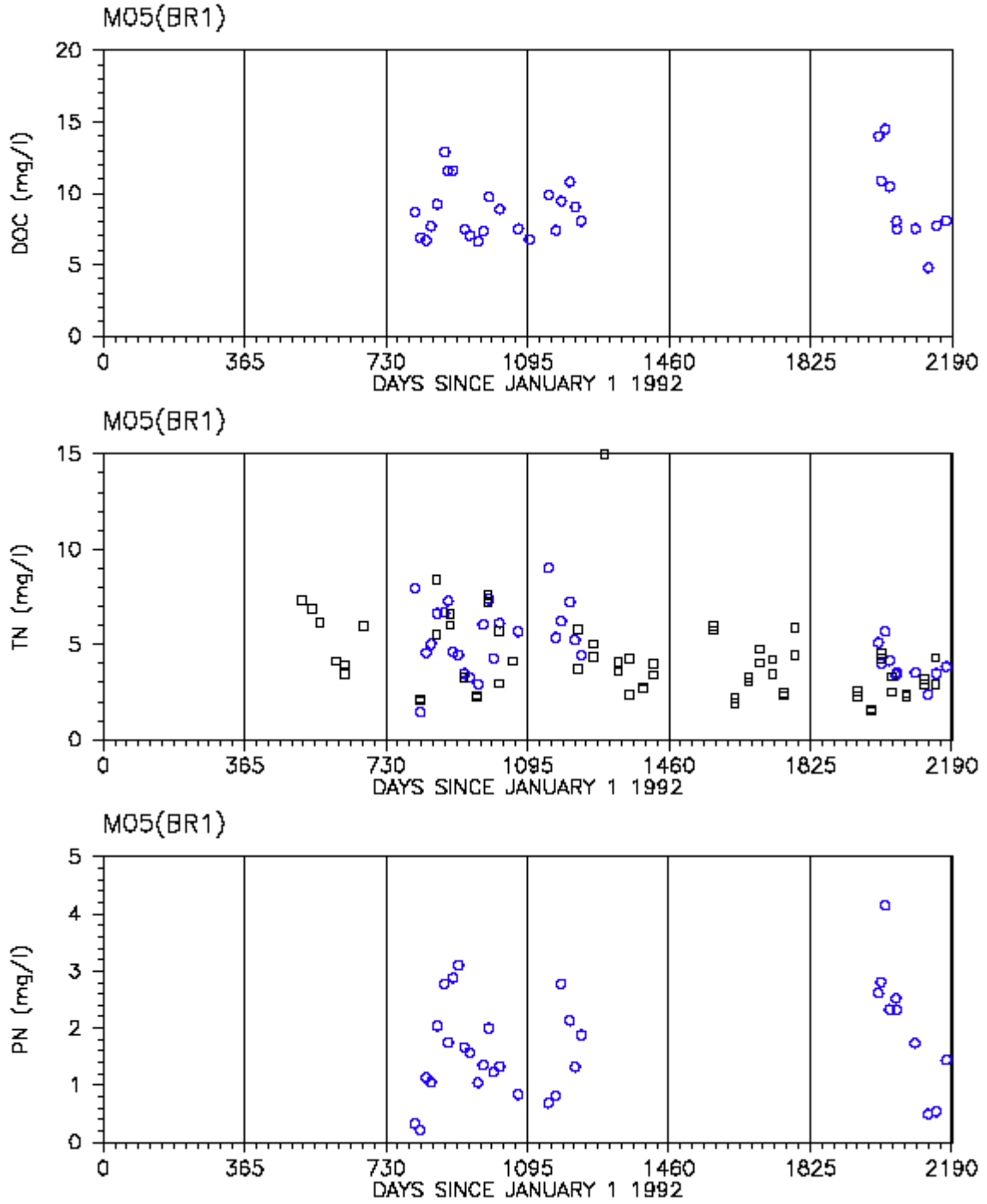


Fig. 27. Water quality monitoring data for dissolved organic carbon, total nitrogen, and particulate nitrogen in Back River (M05)

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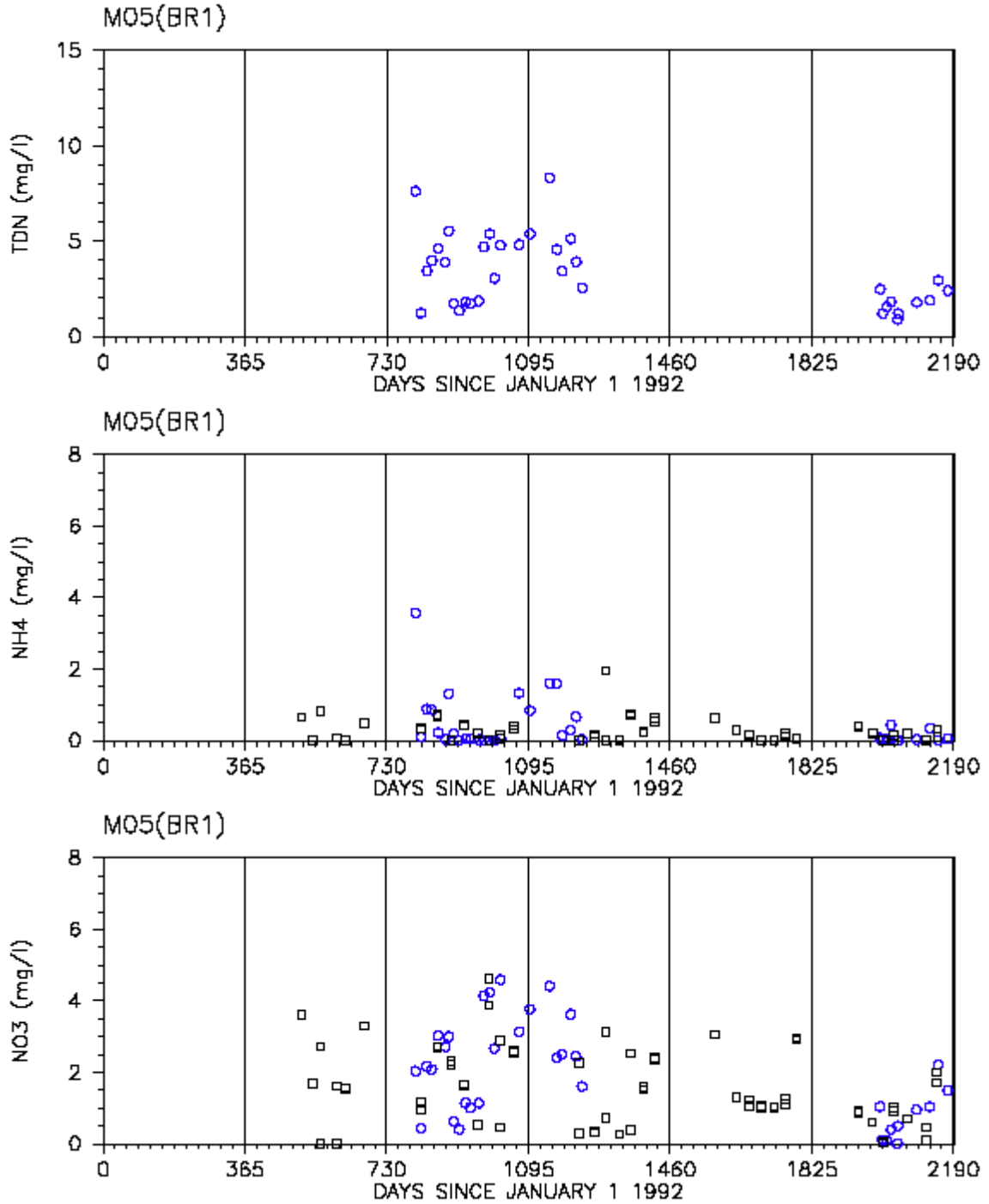


Fig. 28. Water quality monitoring data for total dissolved nitrogen, ammonia, and nitrate in Back River (M05)

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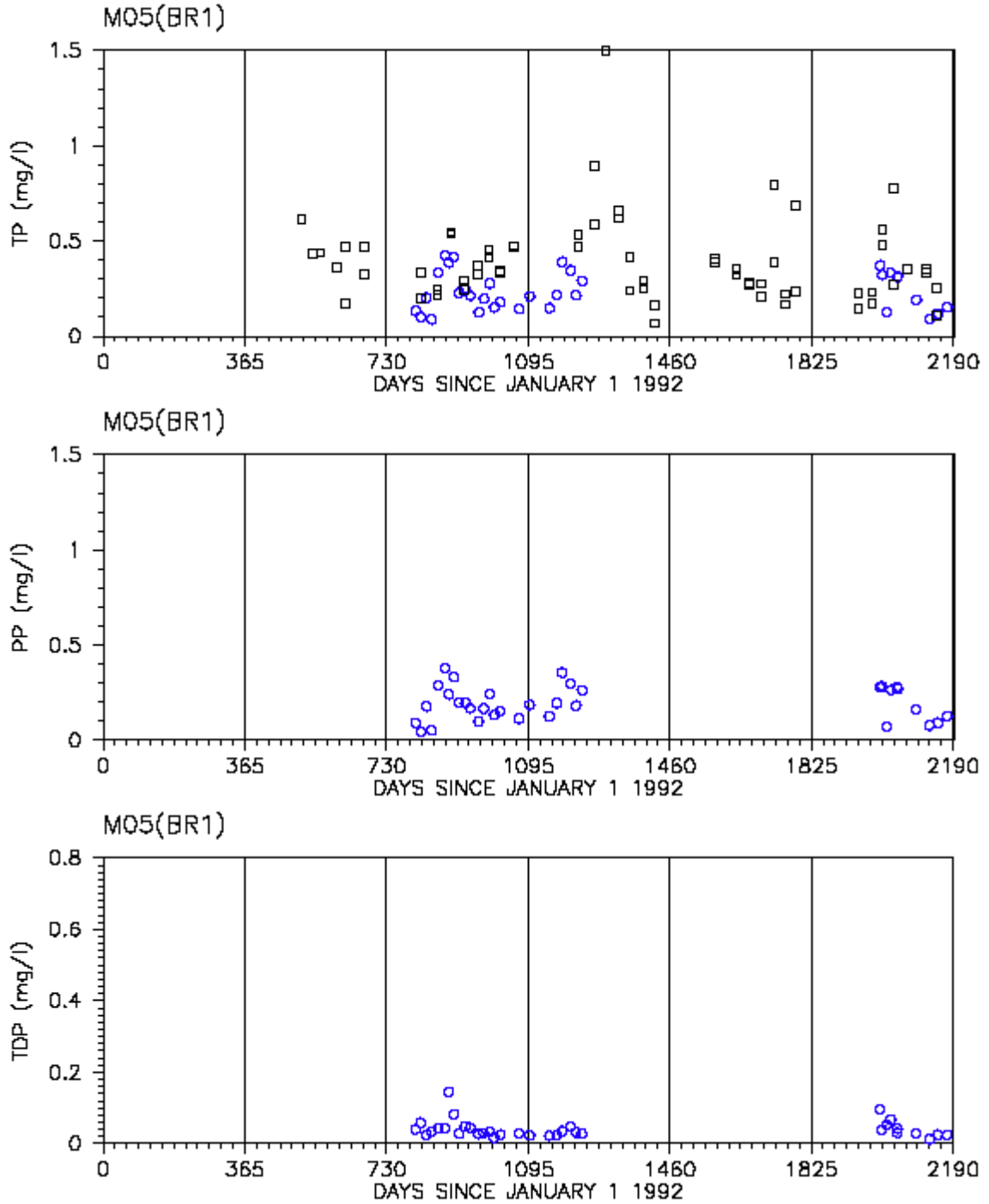


Fig. 29. Water quality monitoring data for total phosphorus, particulate phosphorus, and total dissolved phosphorus in Back River (M05)

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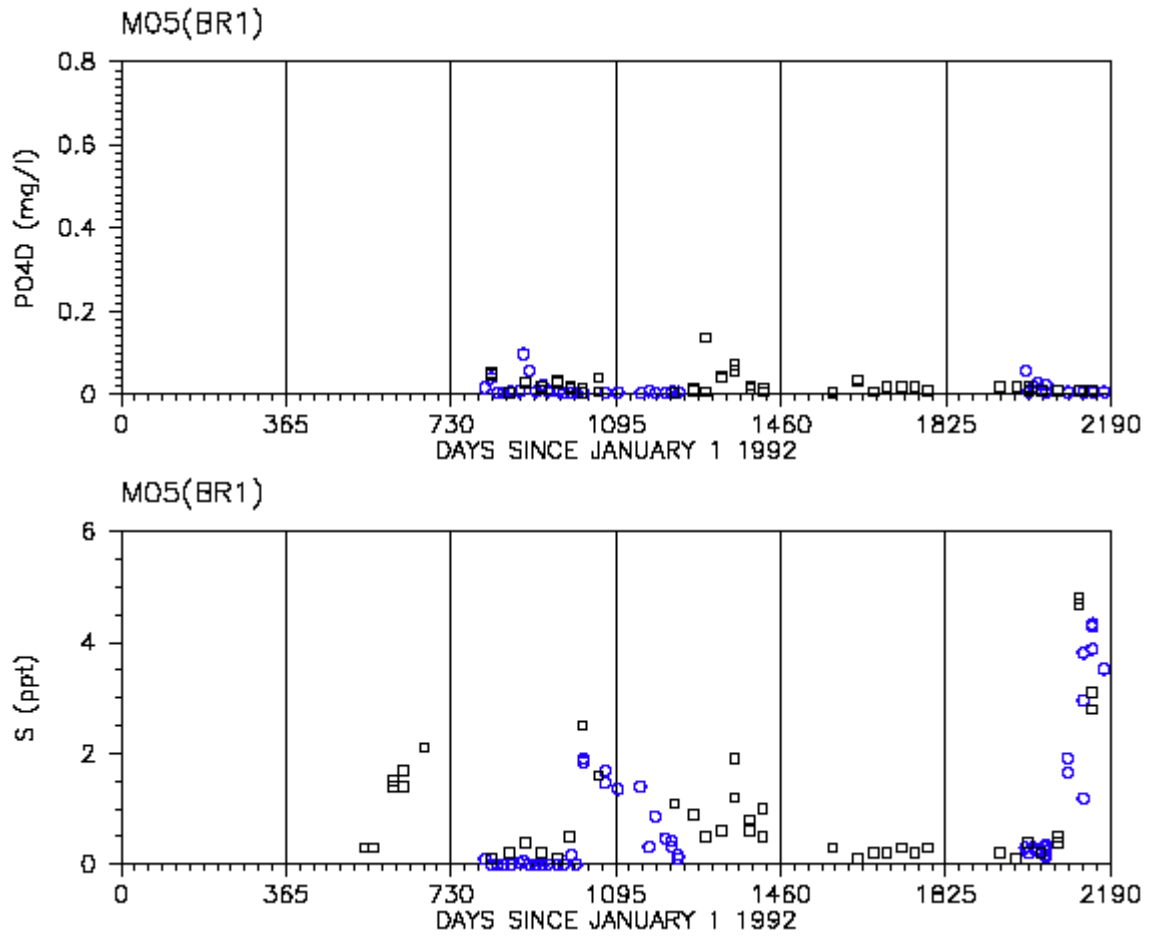


Fig. 30. Water quality monitoring data for dissolved phosphate and salinity in Back River (M05)

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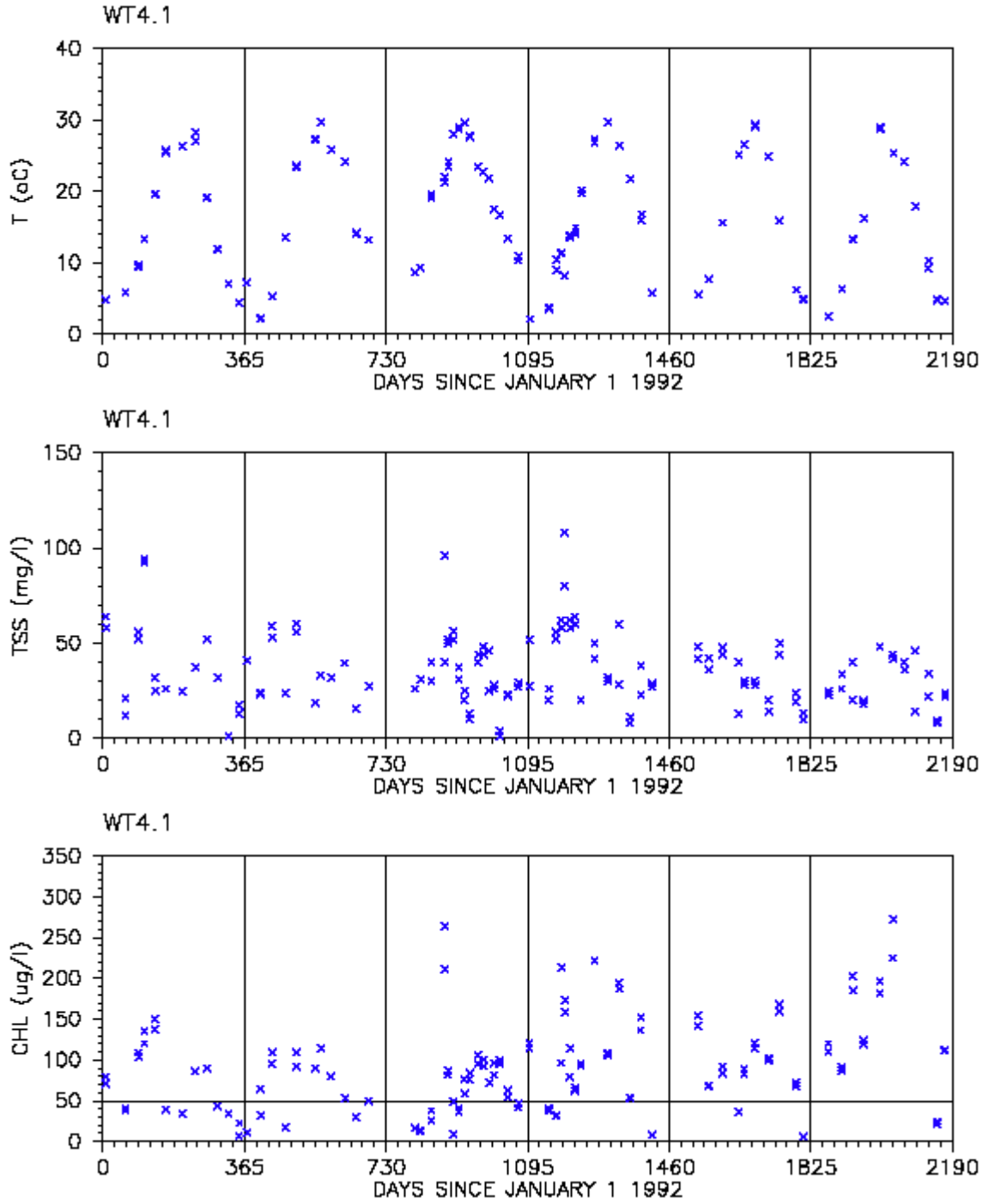


Fig. 31. Water quality monitoring data for temperature, total suspended solids, and chlorophyll a in Back River (WT4.1)

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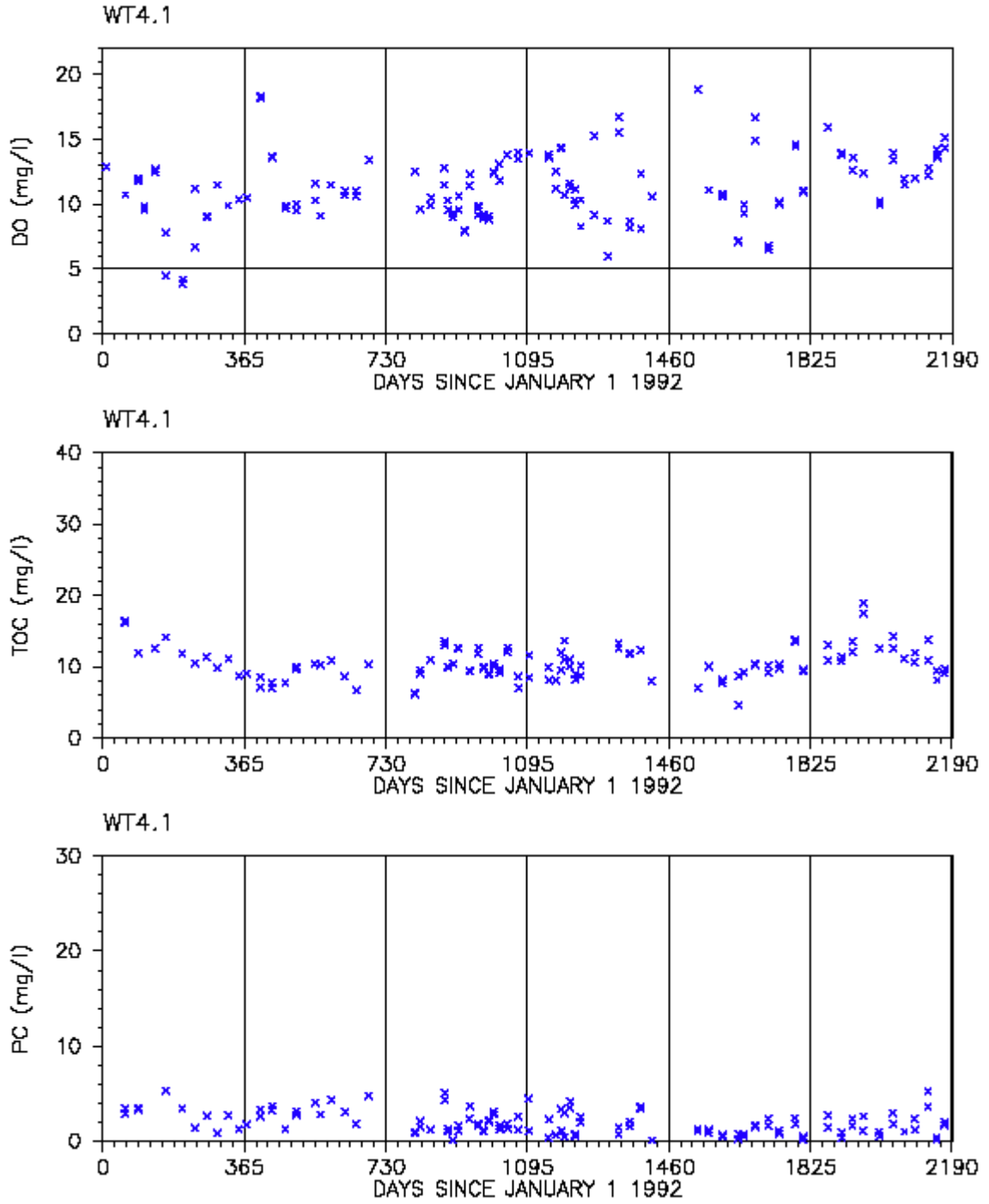


Fig. 32. Water quality monitoring data for dissolved oxygen, total organic carbon, and particulate organic carbon in Back River (WT4.1)

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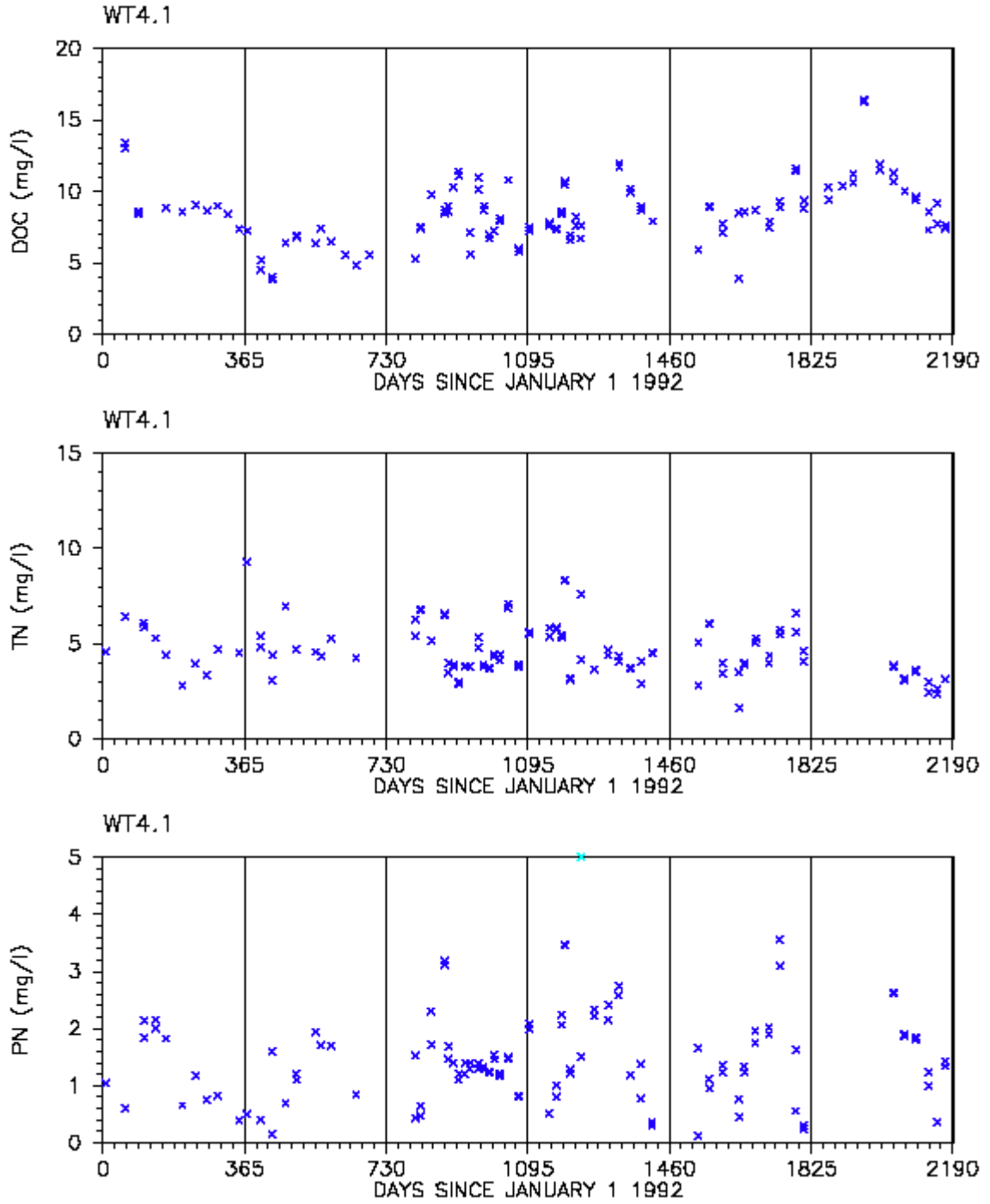


Fig. 33. Water quality monitoring data for dissolved organic carbon, total nitrogen, and particulate nitrogen in Back River (WT4.1)

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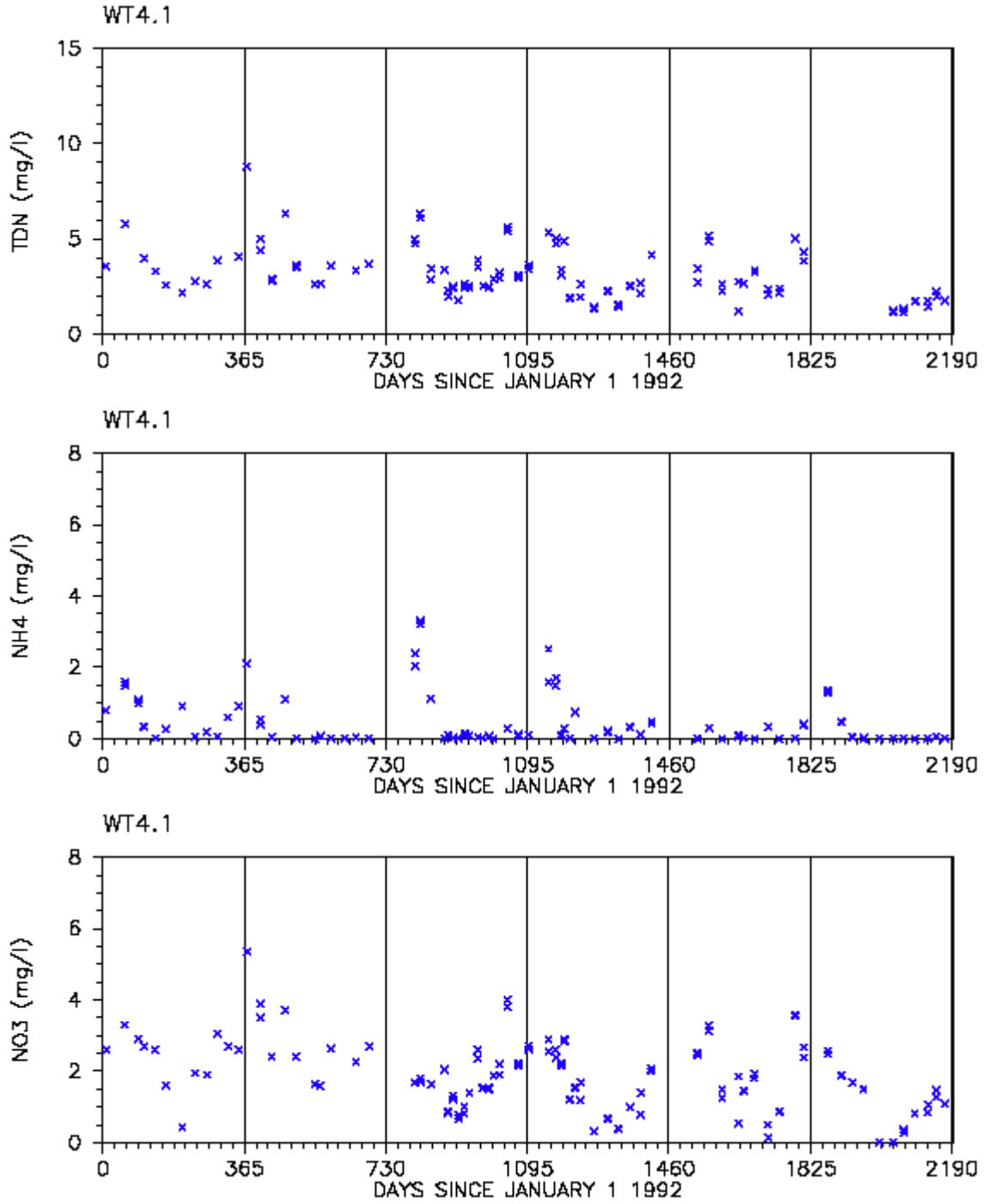


Fig. 34. Water quality monitoring data for total dissolved nitrogen, ammonia, and nitrate in Back River (WT4.1)

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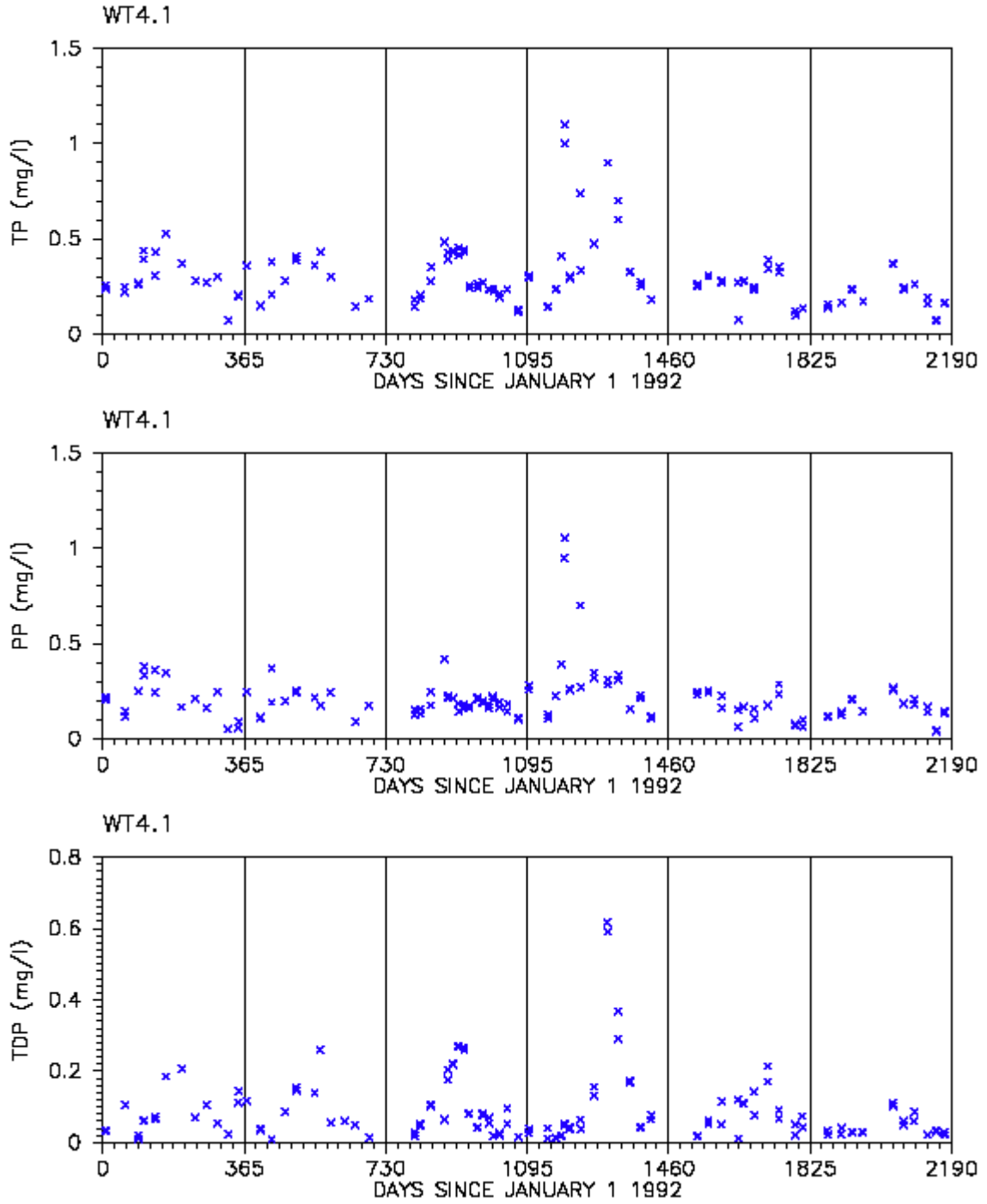


Fig. 35. Water quality monitoring data for total phosphorus, particulate phosphorus and total dissolved phosphorus in Back River (WT4.1)

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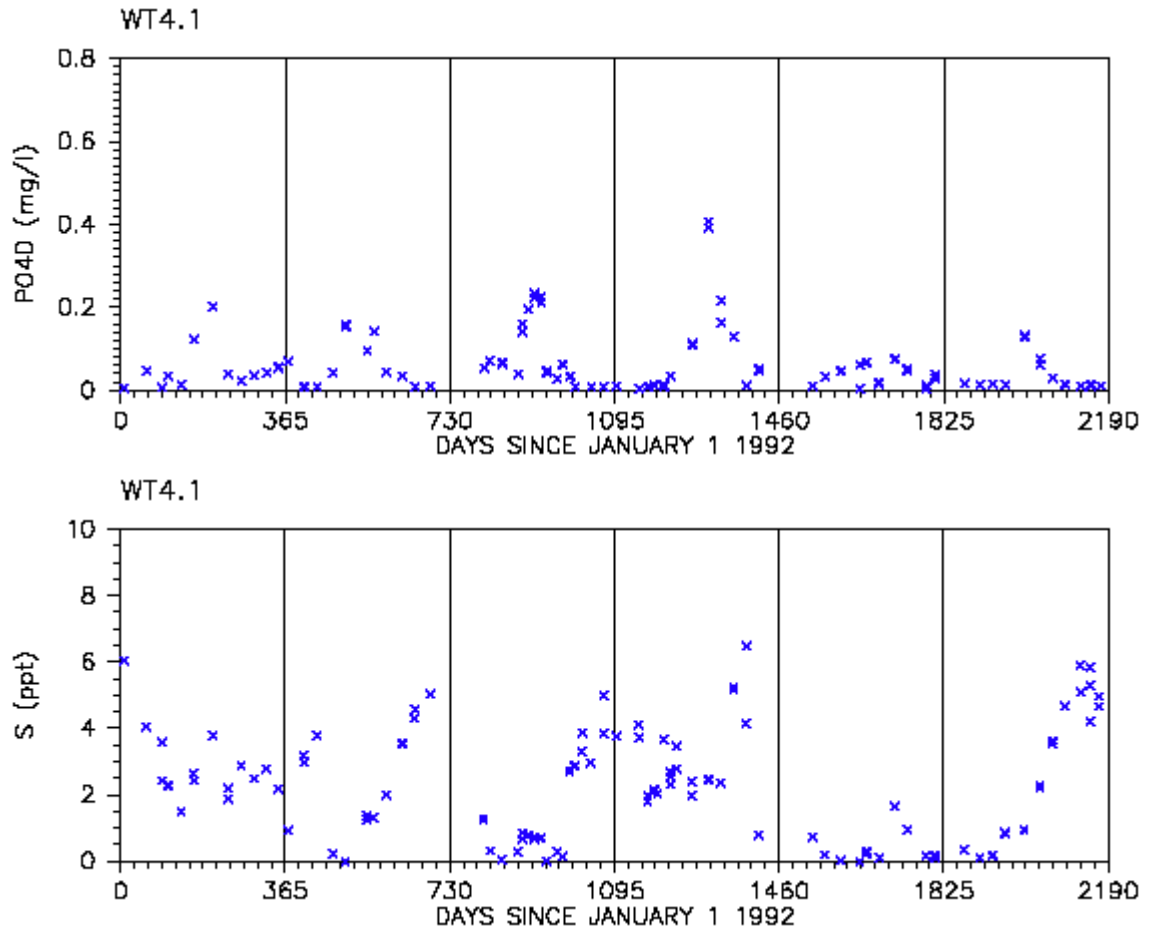


Fig. 36. Water quality monitoring data for dissolved phosphate and salinity in Back River (WT4.1)

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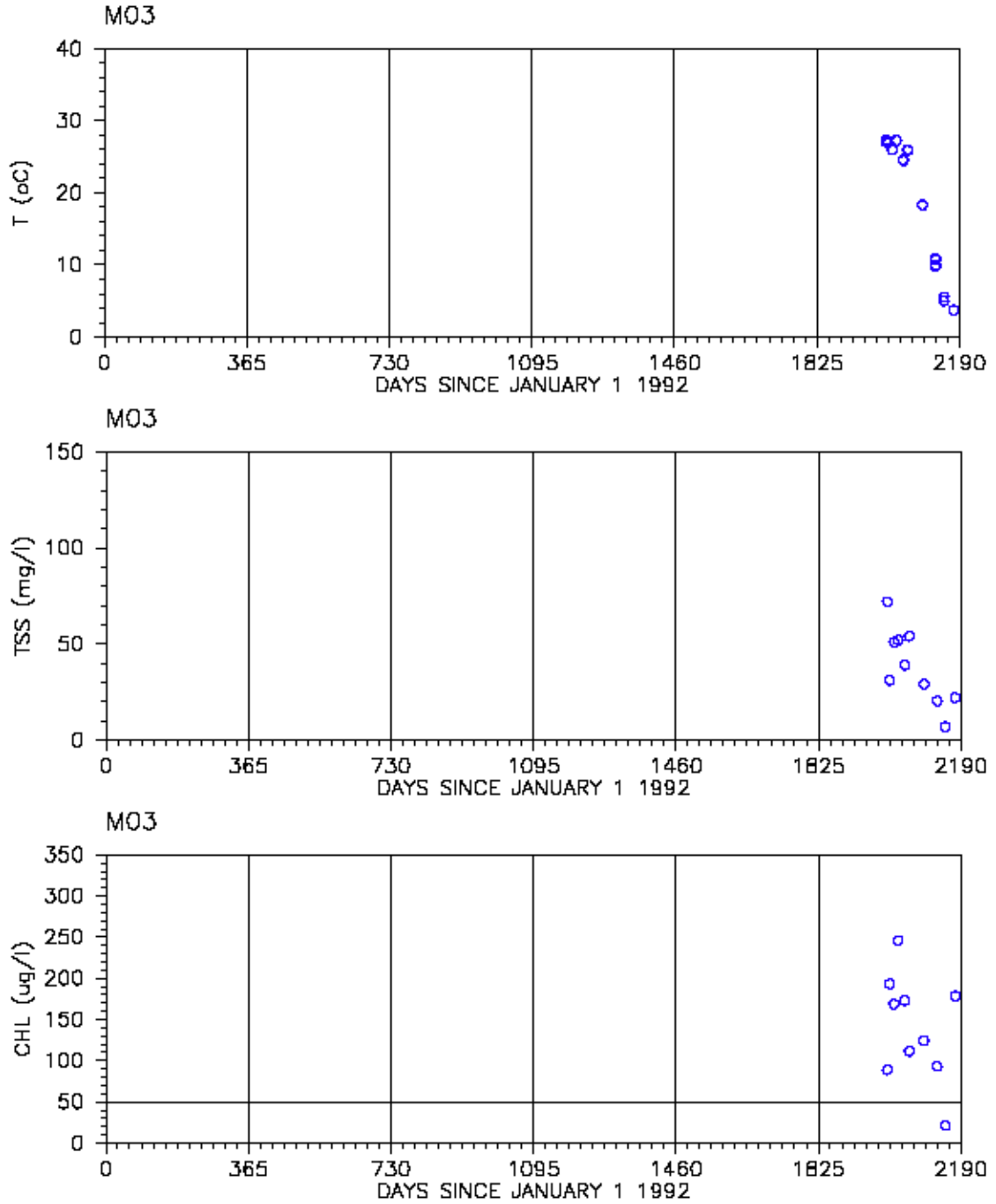


Fig. 37. Water quality monitoring data for temperature, total suspended solids, and chlorophyll a in Back River (M03)

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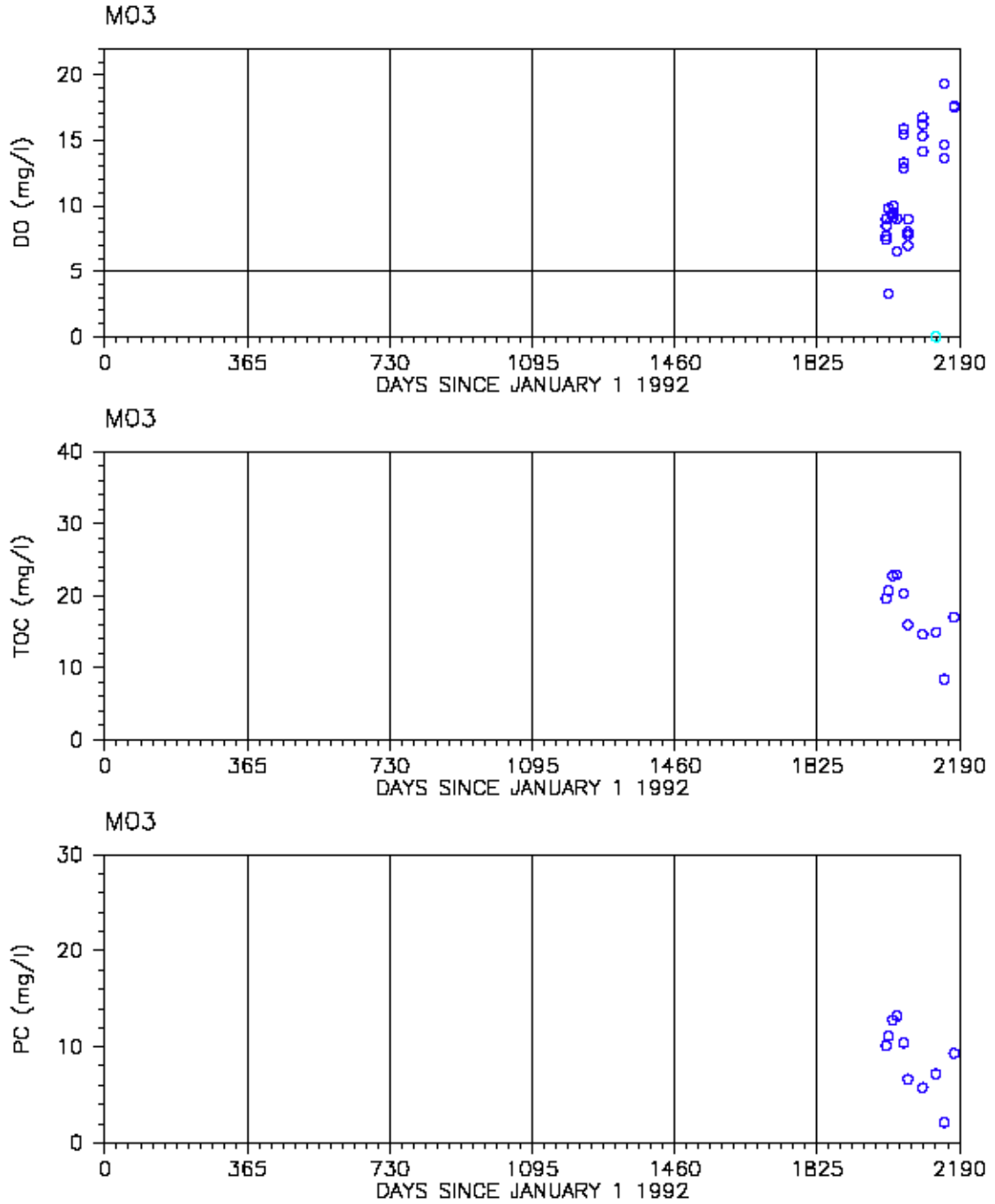


Fig. 38. Water quality monitoring data for dissolved oxygen, total organic carbon, and particulate organic carbon in Back River (M03)

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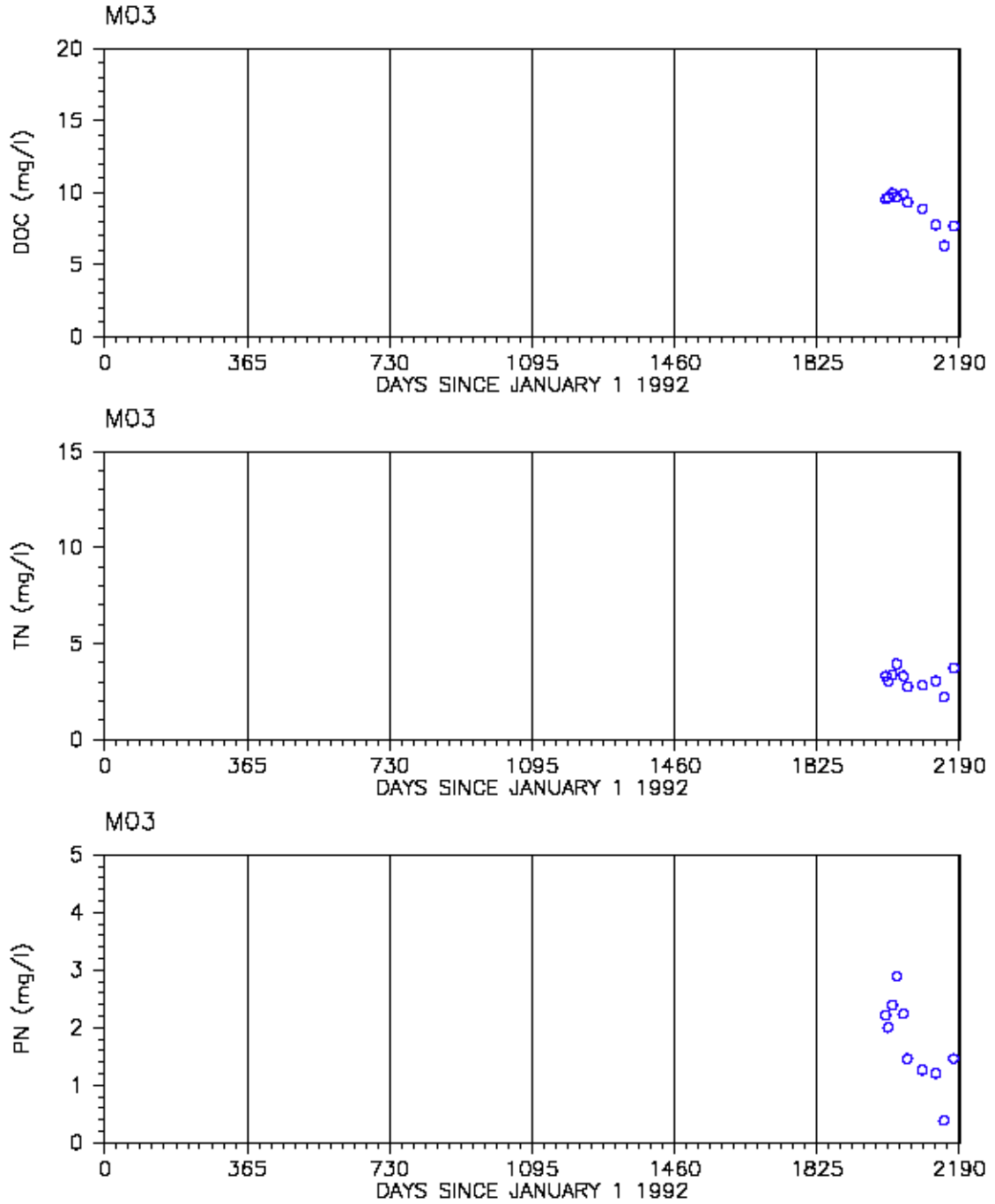


Fig. 39. Water quality monitoring data for dissolved organic carbon, total nitrogen, and particulate nitrogen in Back River (M03)

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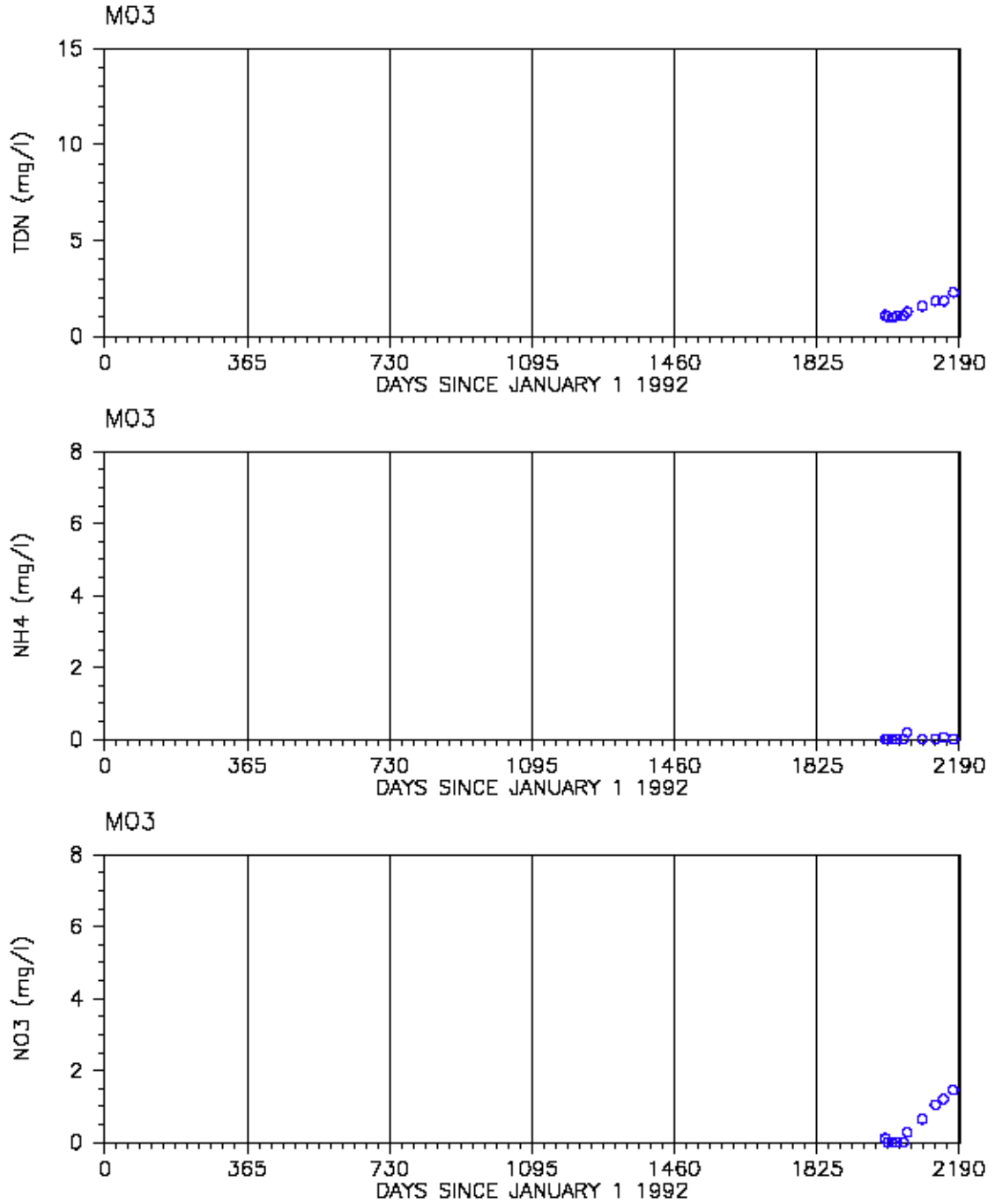


Fig. 40. Water quality monitoring data for total dissolved nitrogen, ammonia, and nitrate in Back River (M03)

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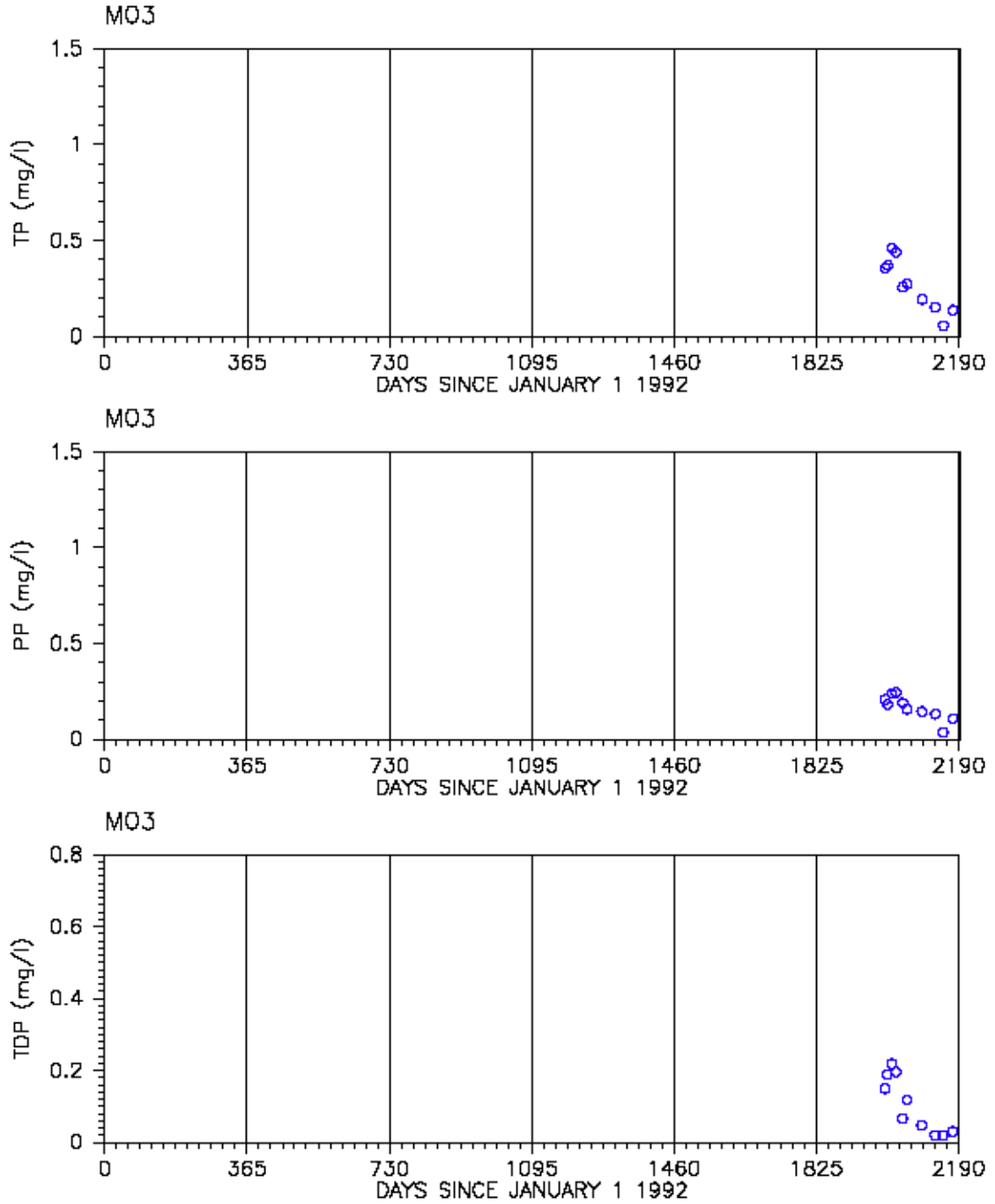


Fig. 41. Water quality monitoring data for total phosphorus, particulate phosphorus and total dissolved phosphorus in Back River (M03)

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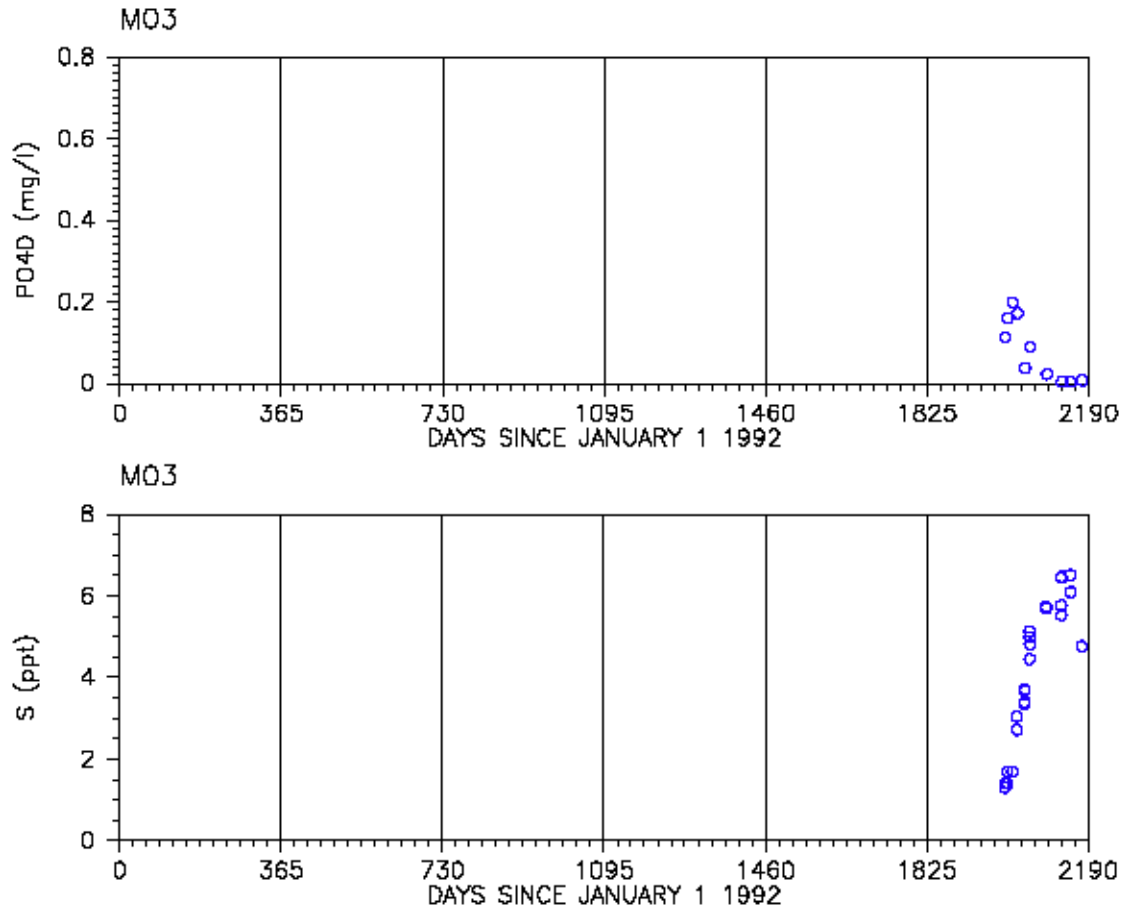


Fig. 42. Water quality monitoring data for dissolved phosphate and salinity in Back River (M03)

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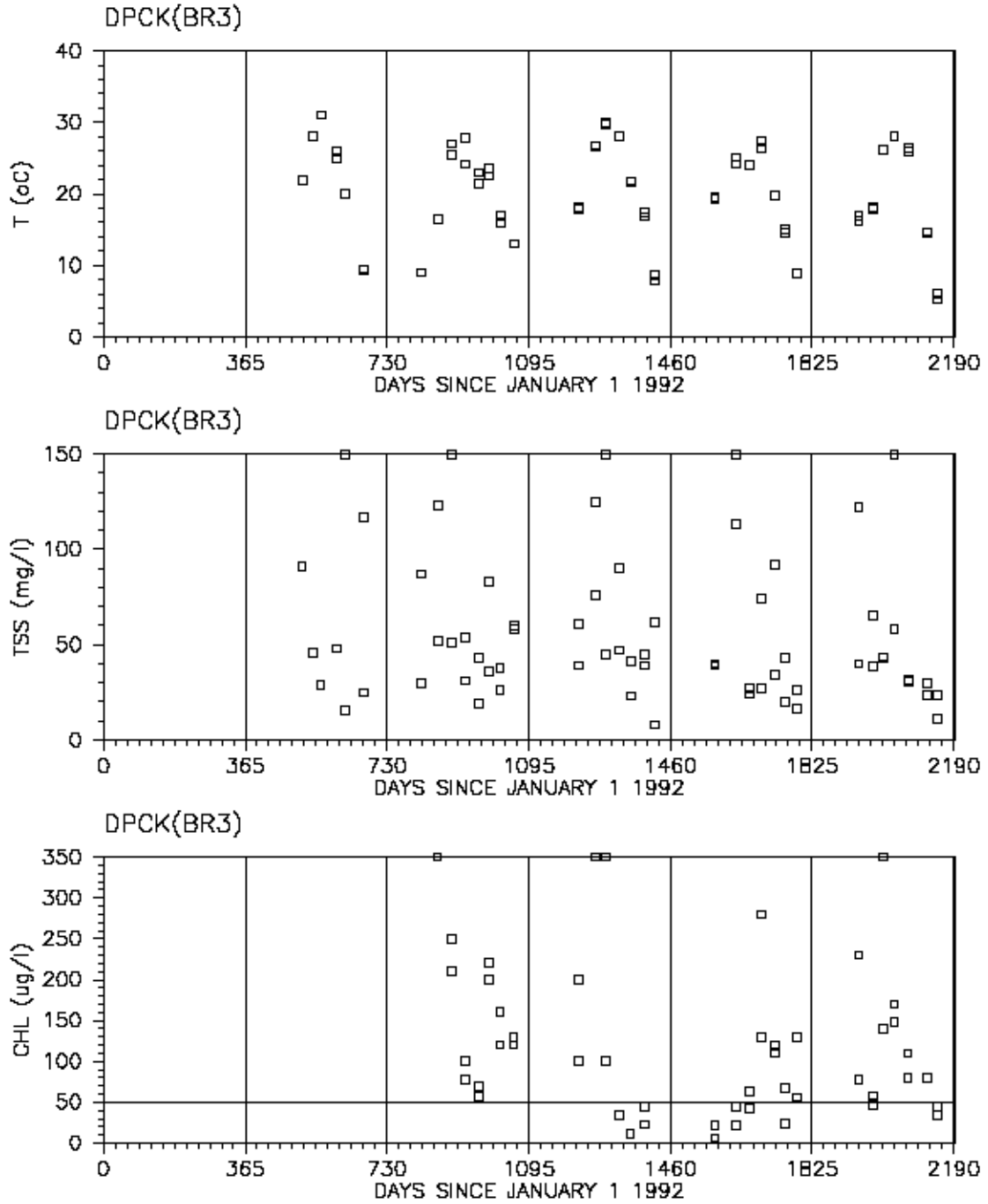


Fig. 43. Water quality monitoring data for temperature, total suspended solids, and chlorophyll a in Back River (BR3)

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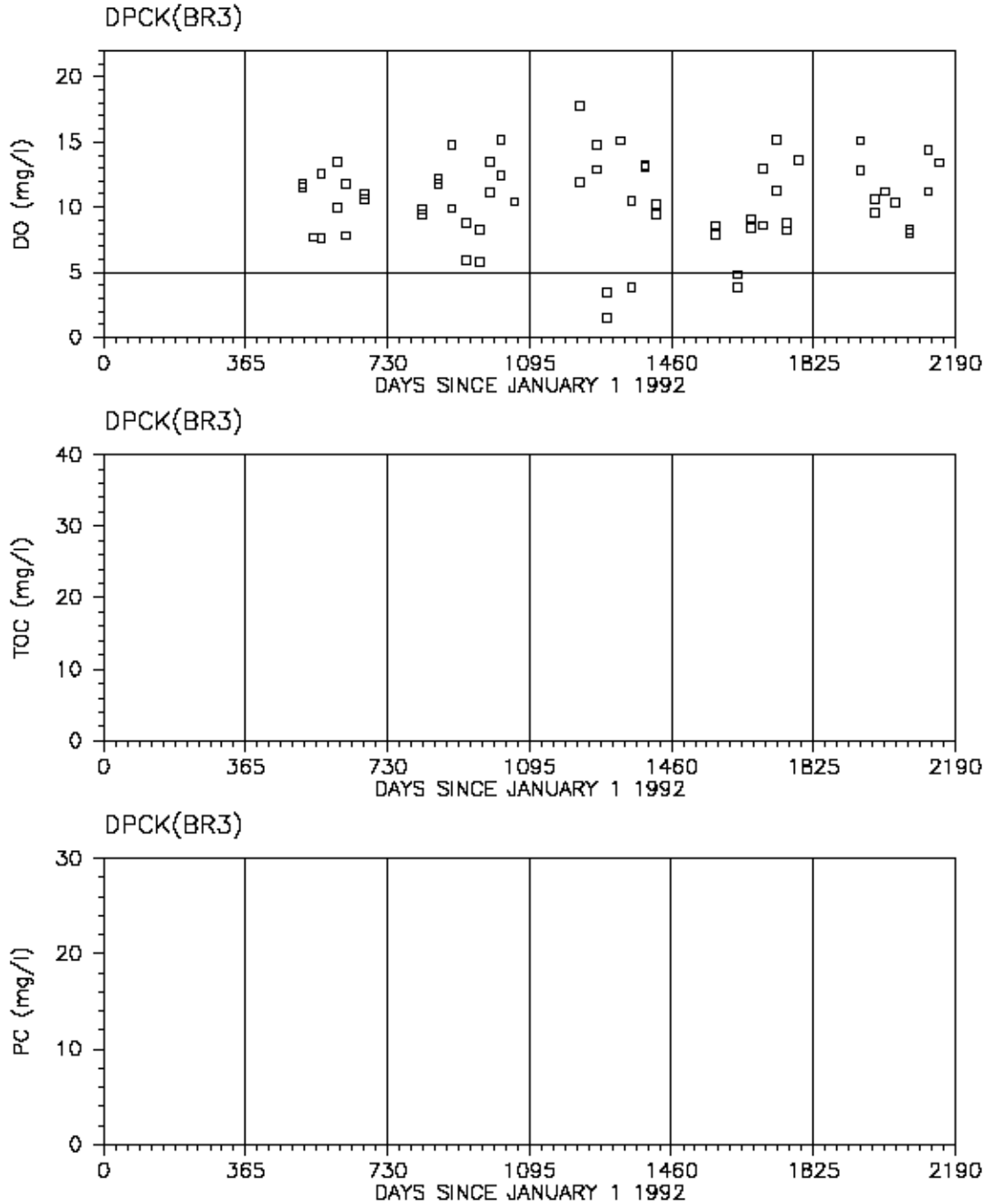


Fig. 44. Water quality monitoring data for dissolved oxygen, total organic carbon, and particulate organic carbon in Back River (BR3)

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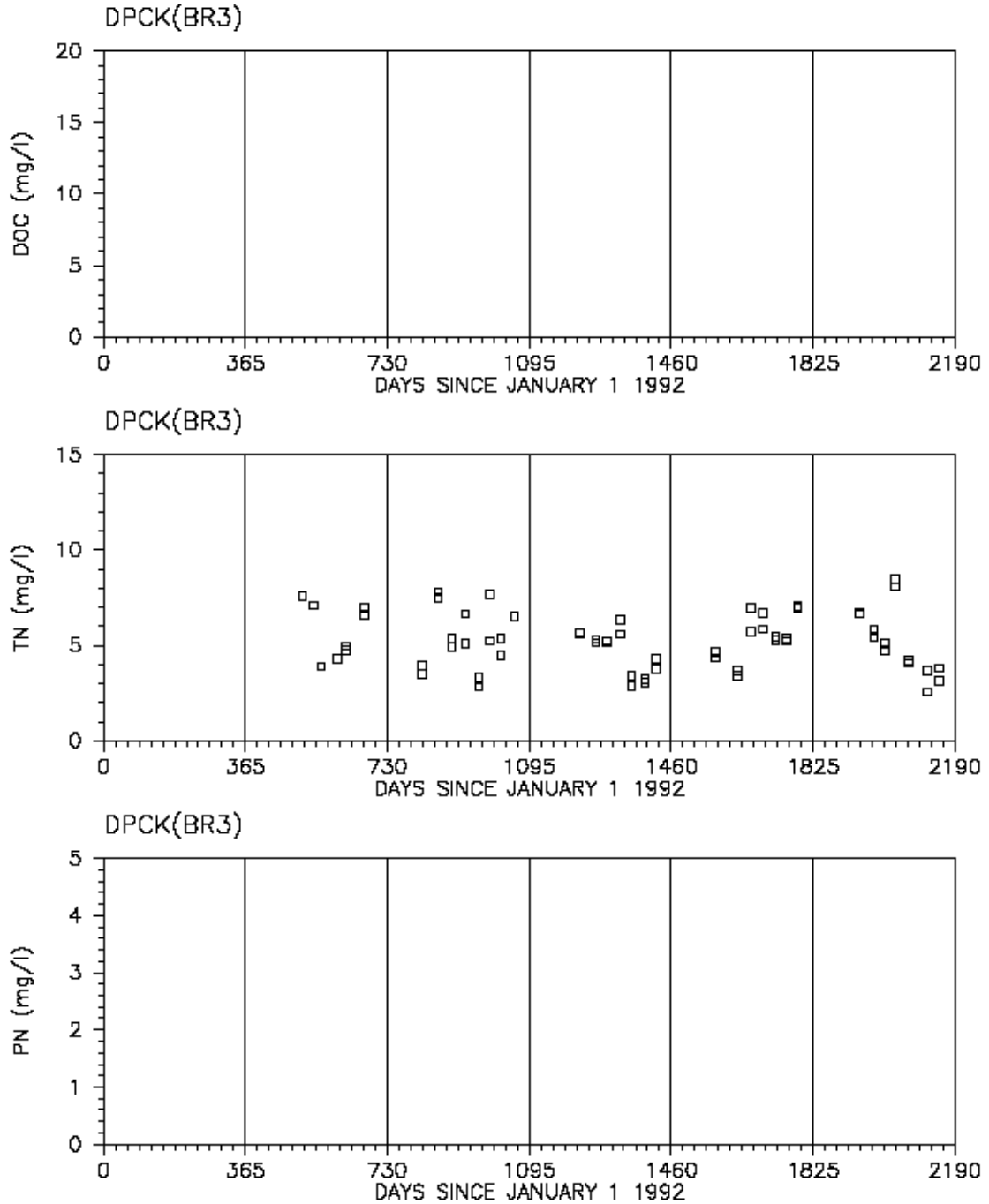


Fig. 45. Water quality monitoring data for dissolved organic carbon, total nitrogen, and particulate nitrogen in Back River (BR3)

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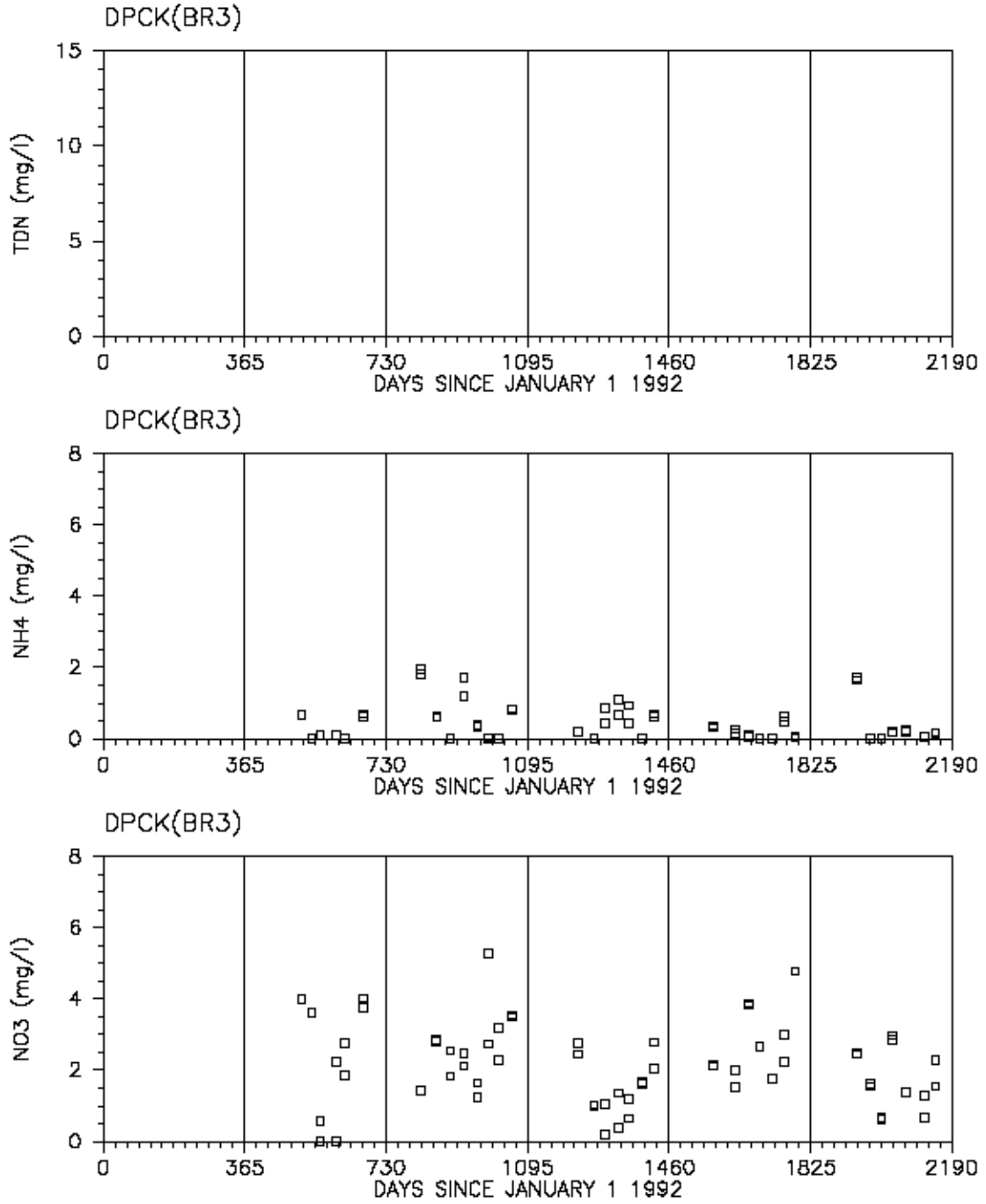


Fig. 46. Water quality monitoring data for total dissolved nitrogen, ammonia, and nitrate in Back River (BR3)

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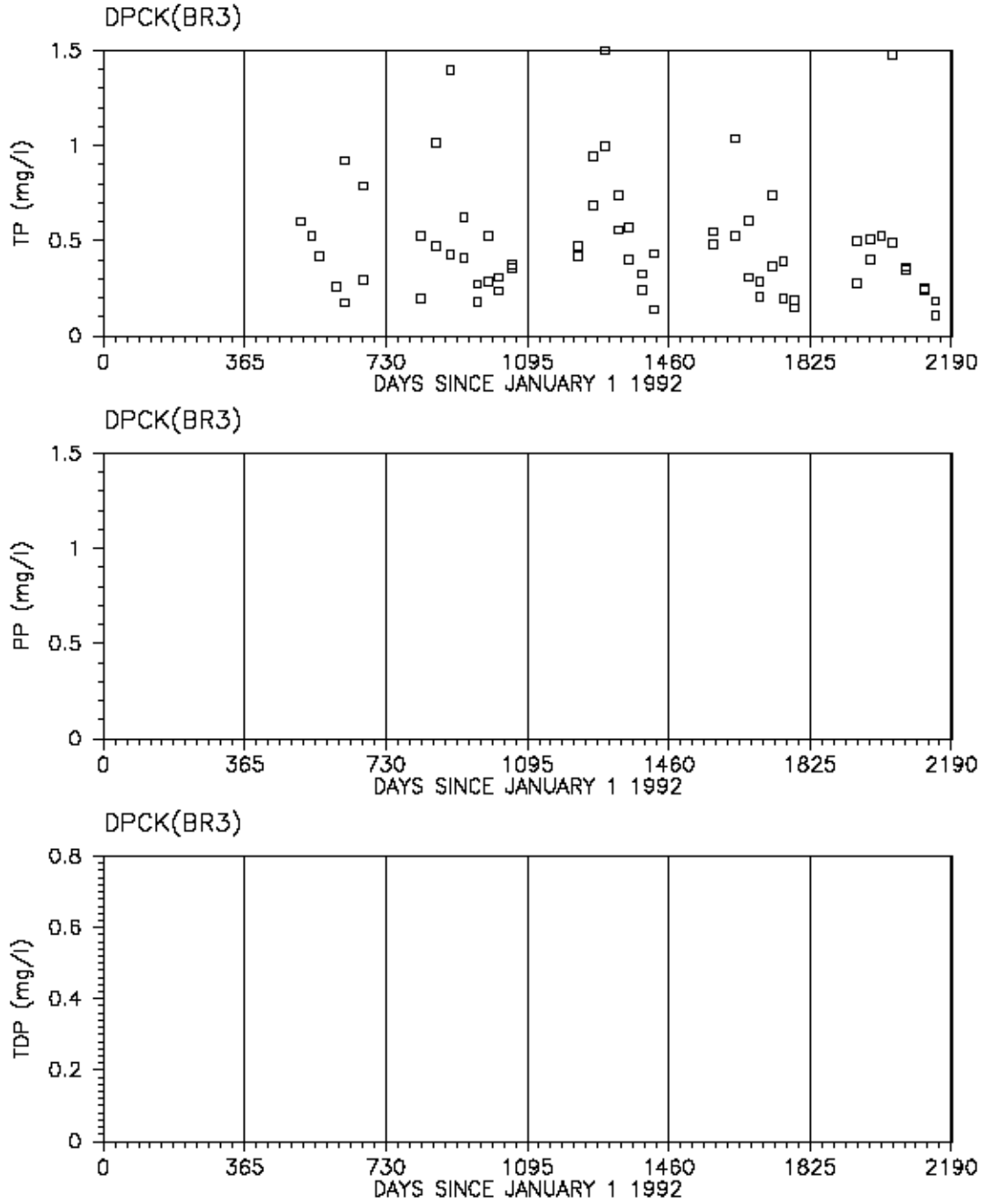


Fig. 47. Water quality monitoring data for total phosphorus, particulate phosphorus and total dissolved phosphorus in Back River (BR3)

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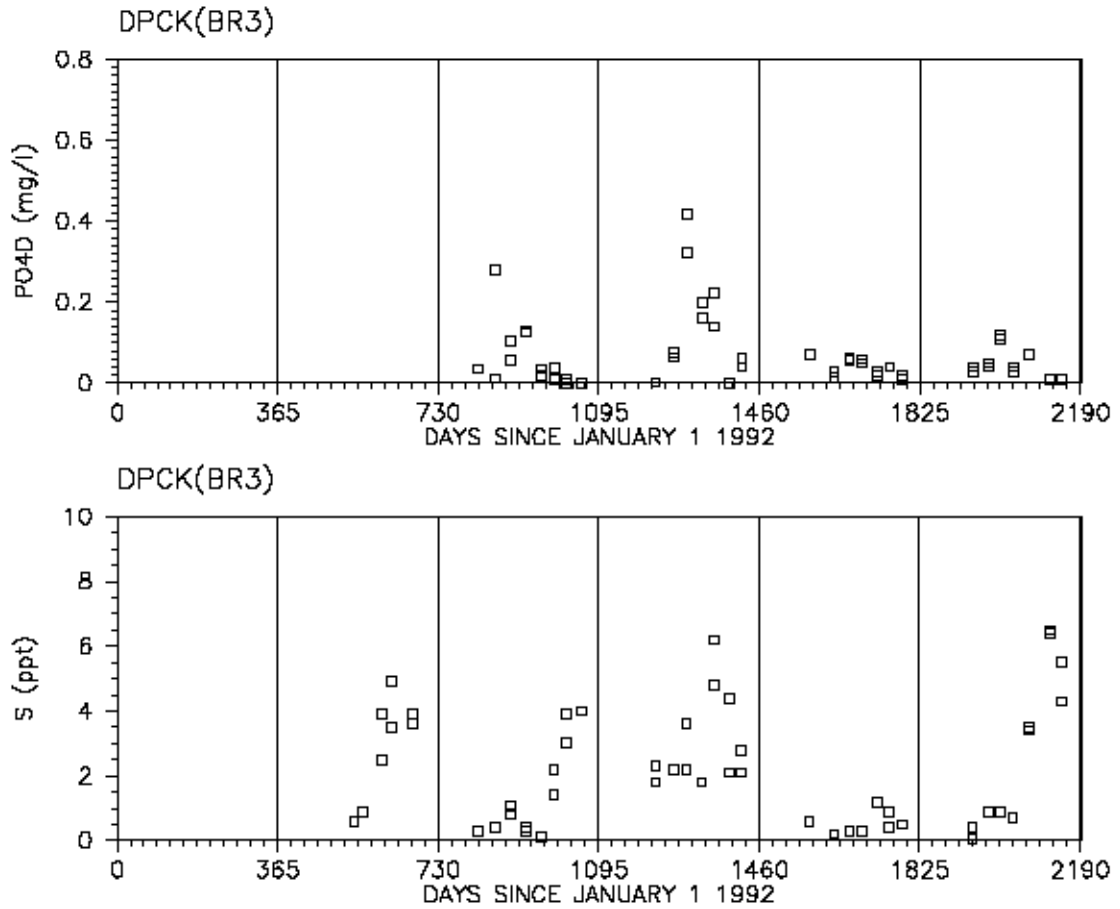


Fig. 48. Water quality monitoring data for dissolved phosphate and salinity in Back River (BR3)

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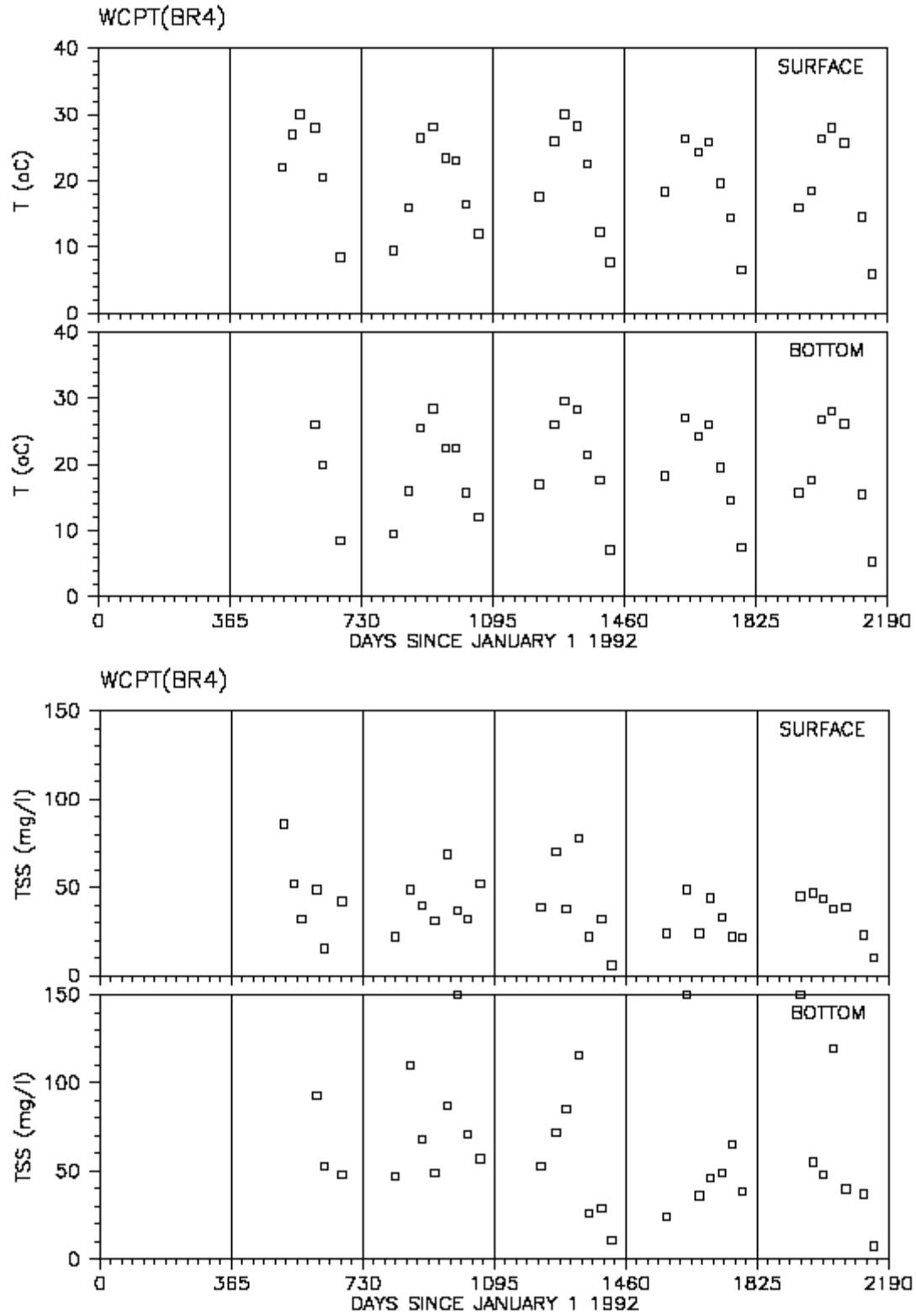


Fig. 49. Water quality monitoring data for temperature and total suspended solids in Back River (BR4)

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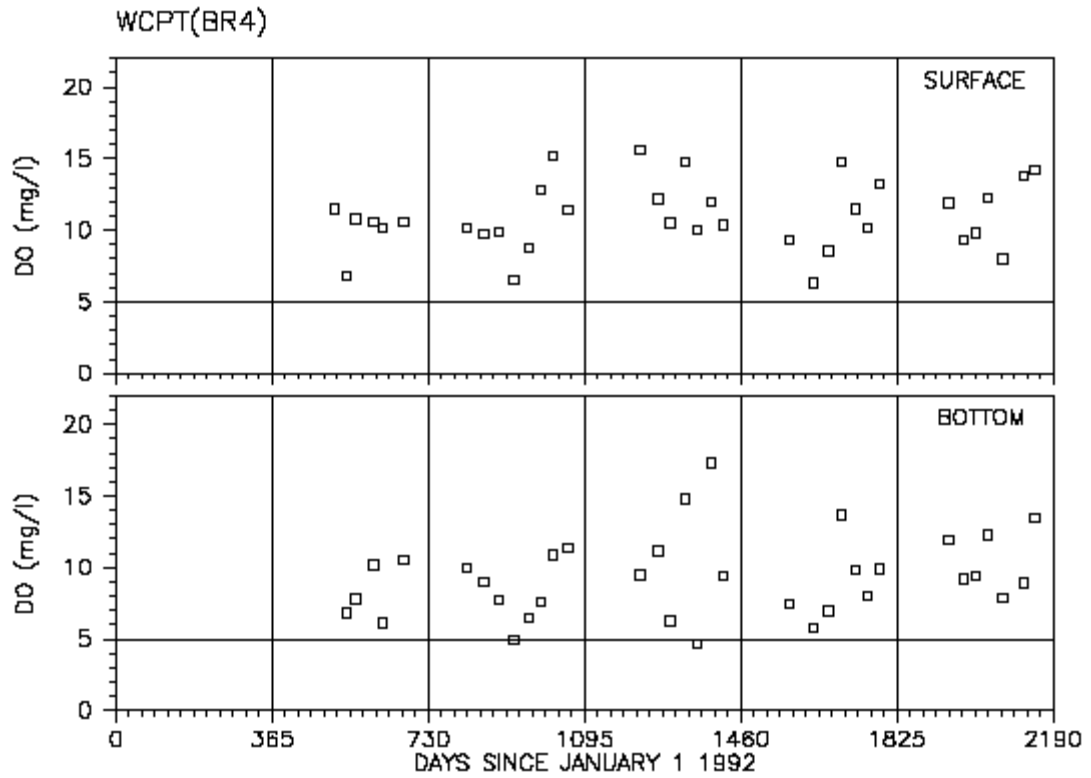
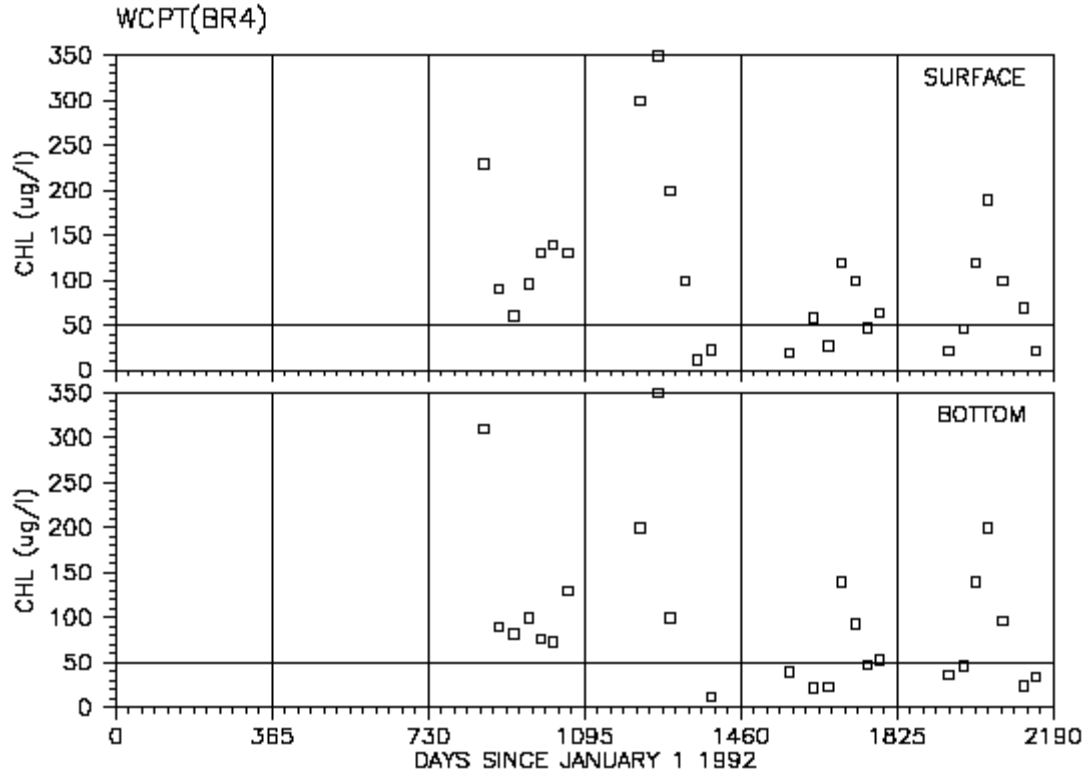


Fig. 50. Water quality monitoring data for chlorophyll a and dissolved oxygen in Back River (BR4)

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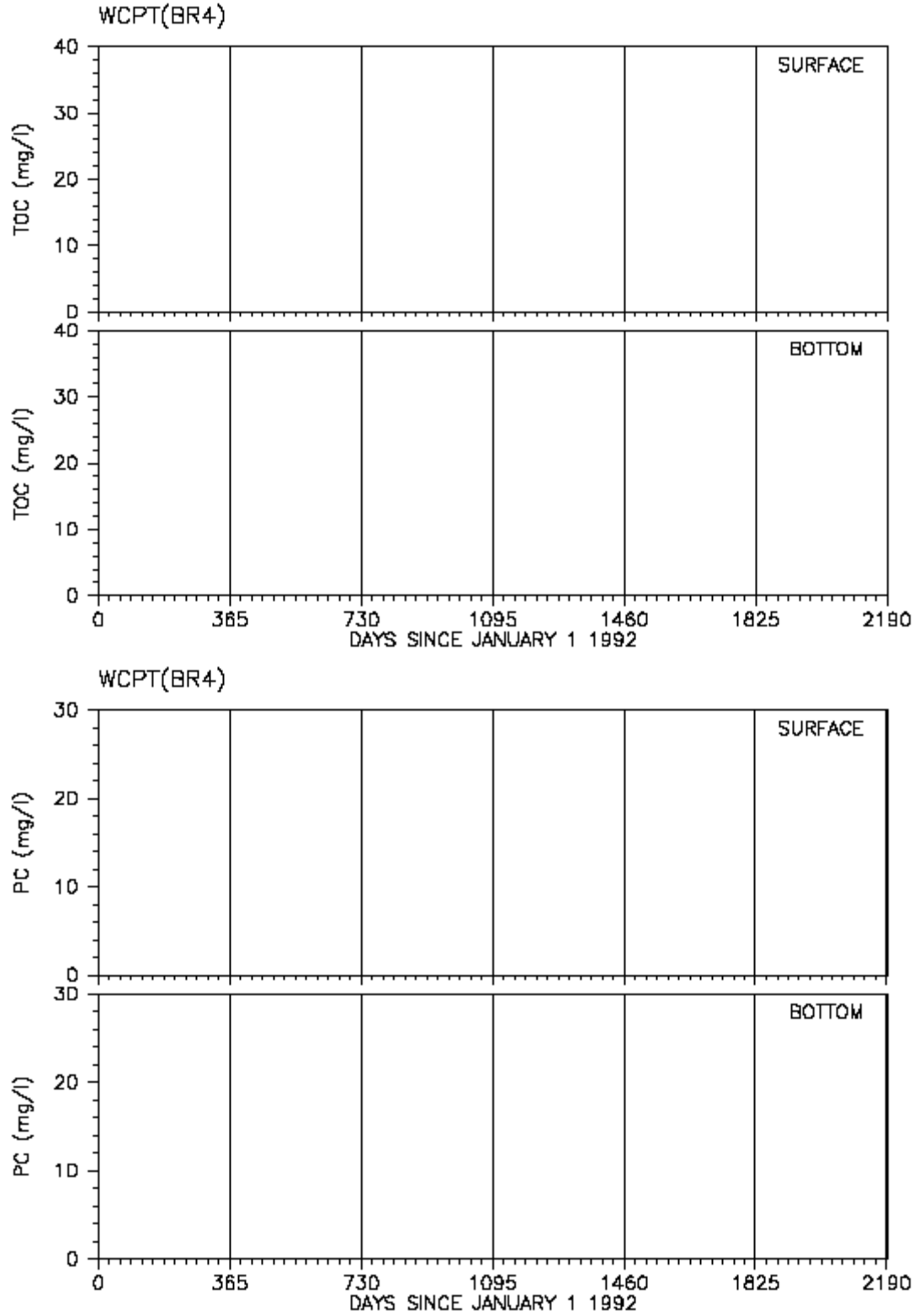


Fig. 51. Water quality monitoring data for total organic carbon and particulate organic carbon in Back River (BR4)

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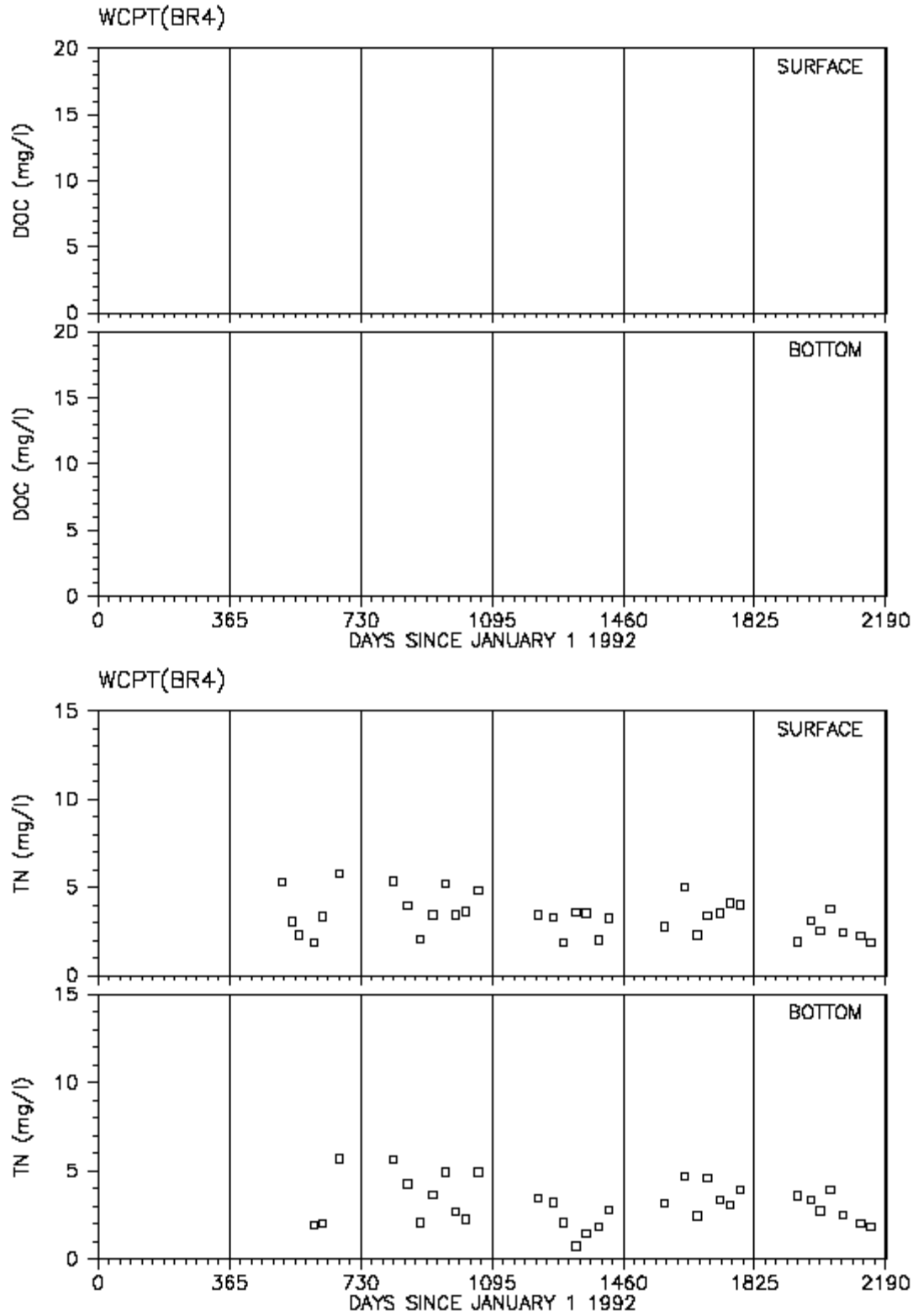


Fig. 52. Water quality monitoring data for dissolved organic carbon and total nitrogen in Back River (BR4)

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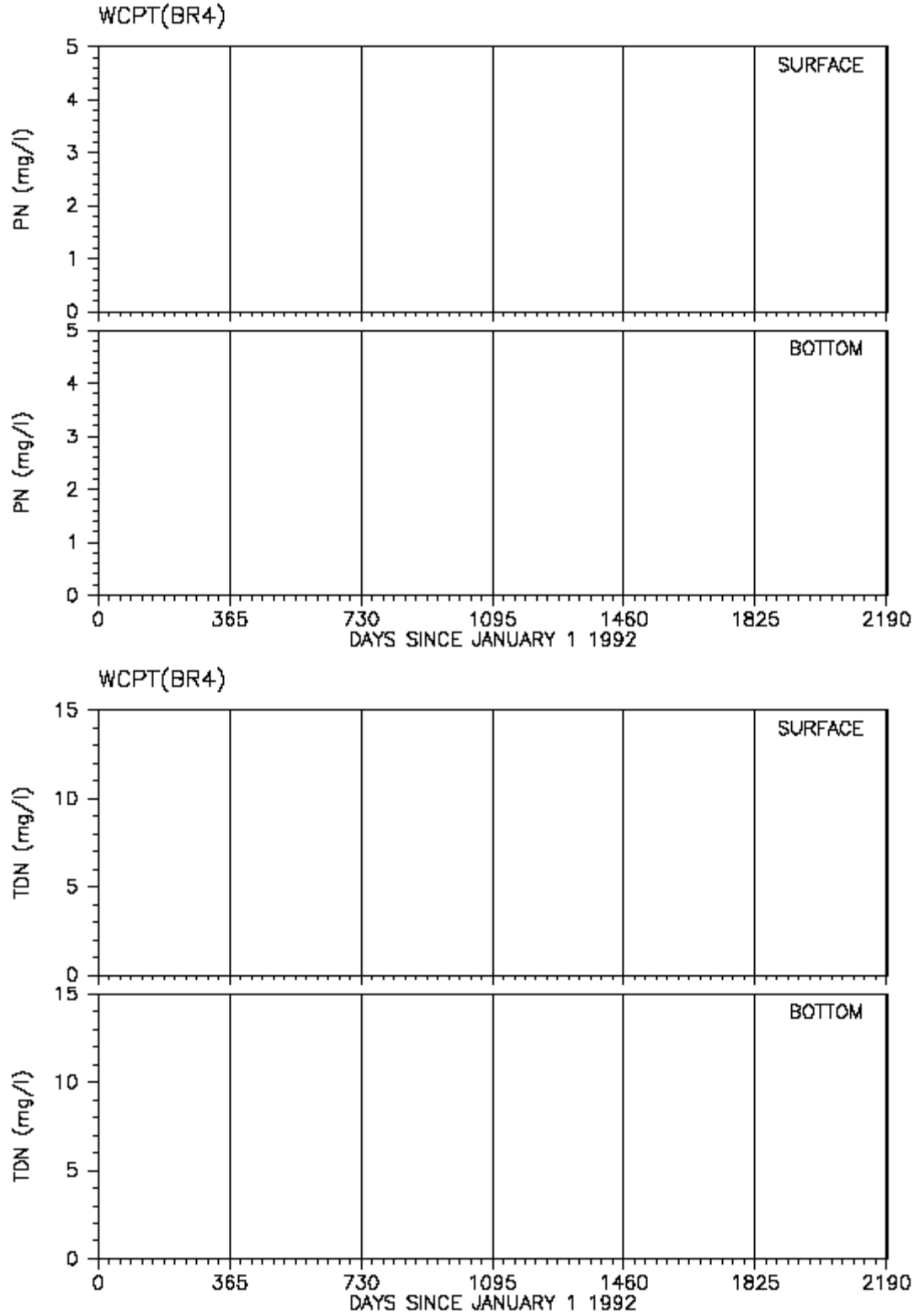


Fig. 53. Water quality monitoring data for particulate nitrogen and total dissolved nitrogen in Back River (BR4)

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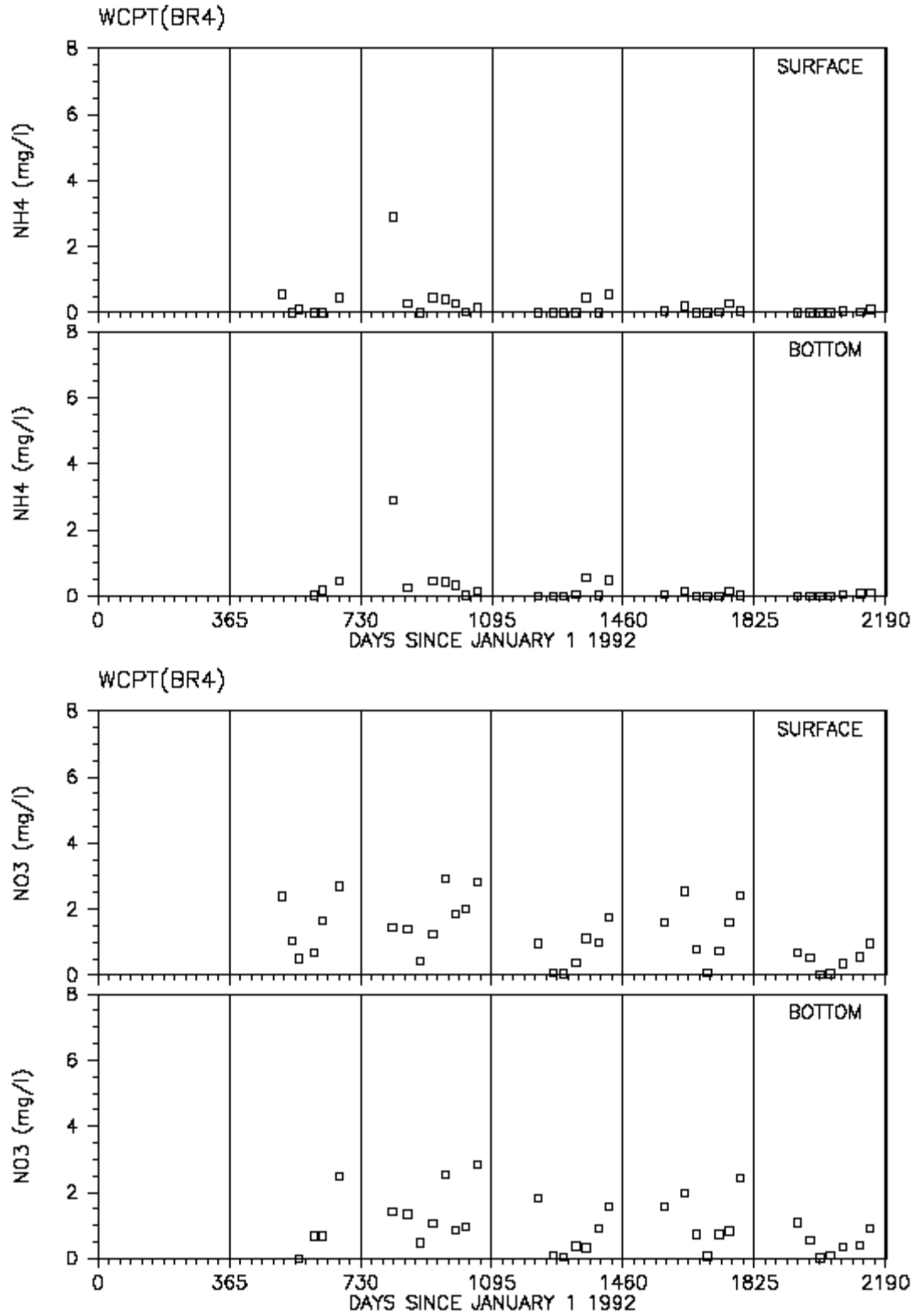


Fig. 54. Water quality monitoring data for ammonia and nitrate nitrogen in Back River (BR4)

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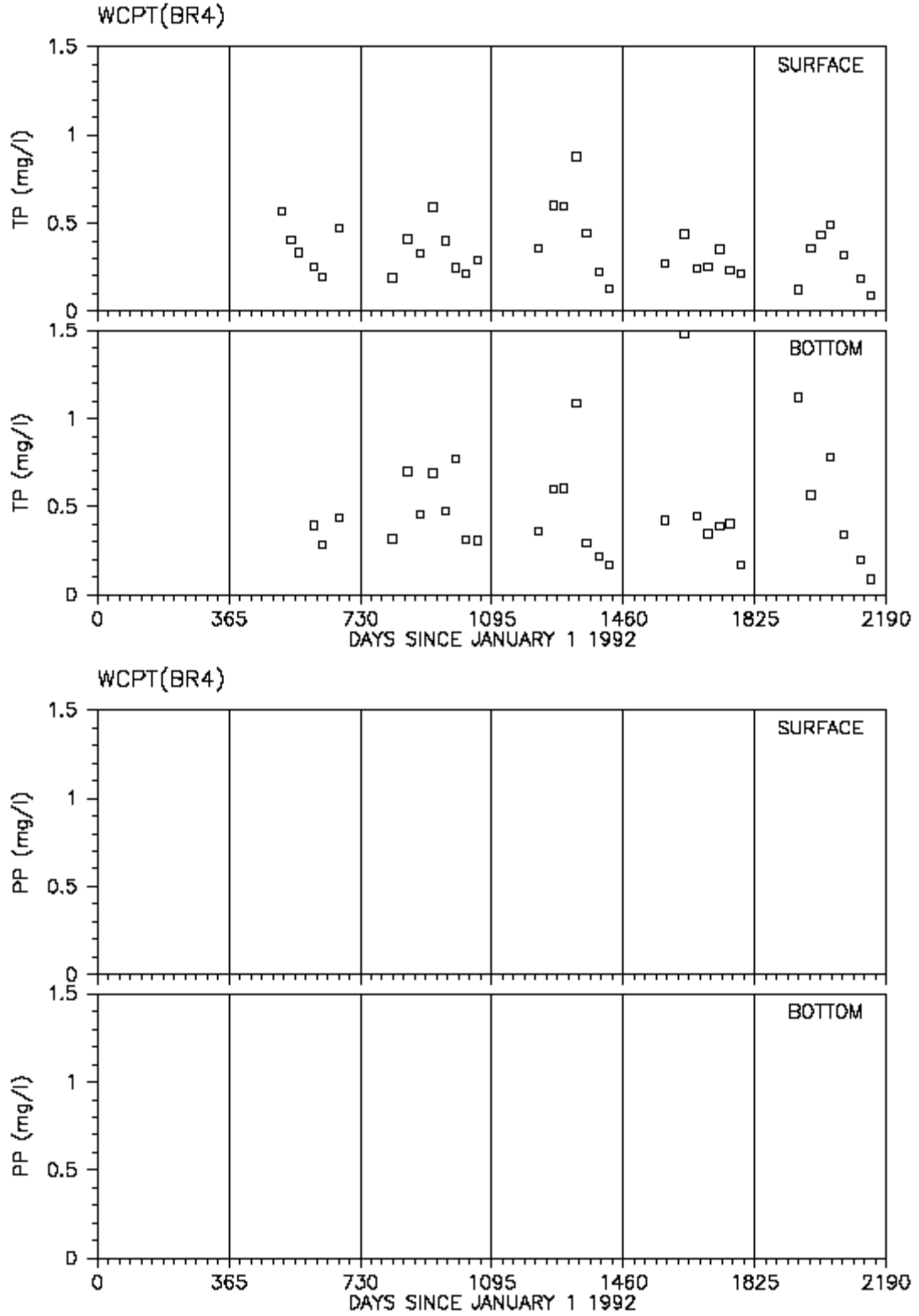


Fig. 55. Water quality monitoring data for total phosphorus and particulate phosphorus in Back River (BR4)

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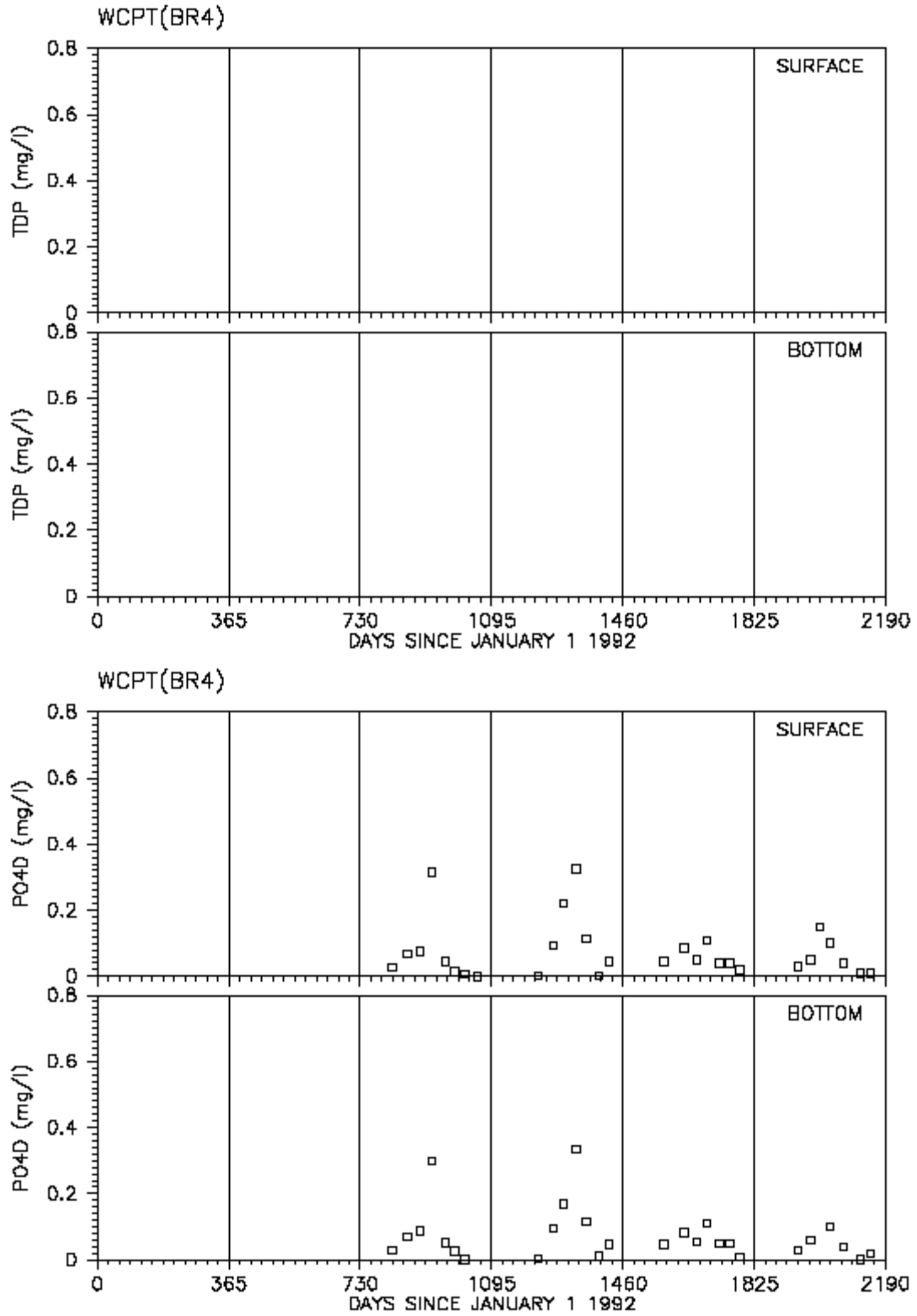


Fig. 56. Water quality monitoring data for total dissolved phosphorus and dissolved phosphate in Back River (BR4)

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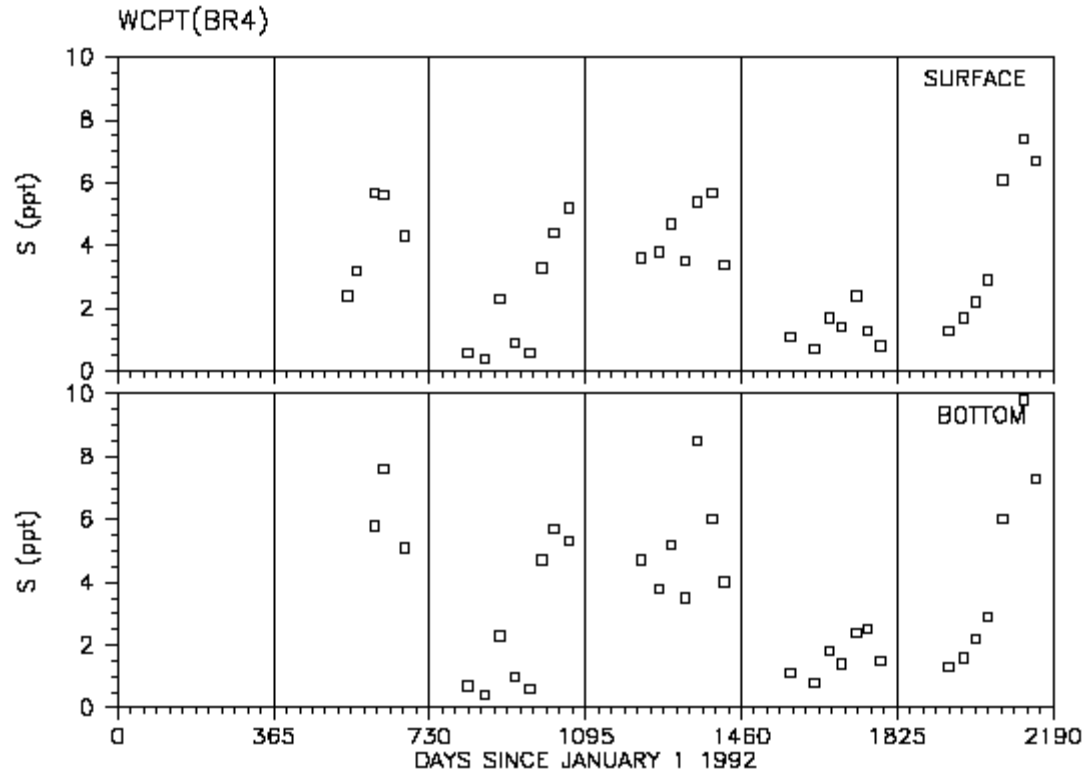


Fig. 57. Water quality monitoring data for salinity in Back River (BR4)

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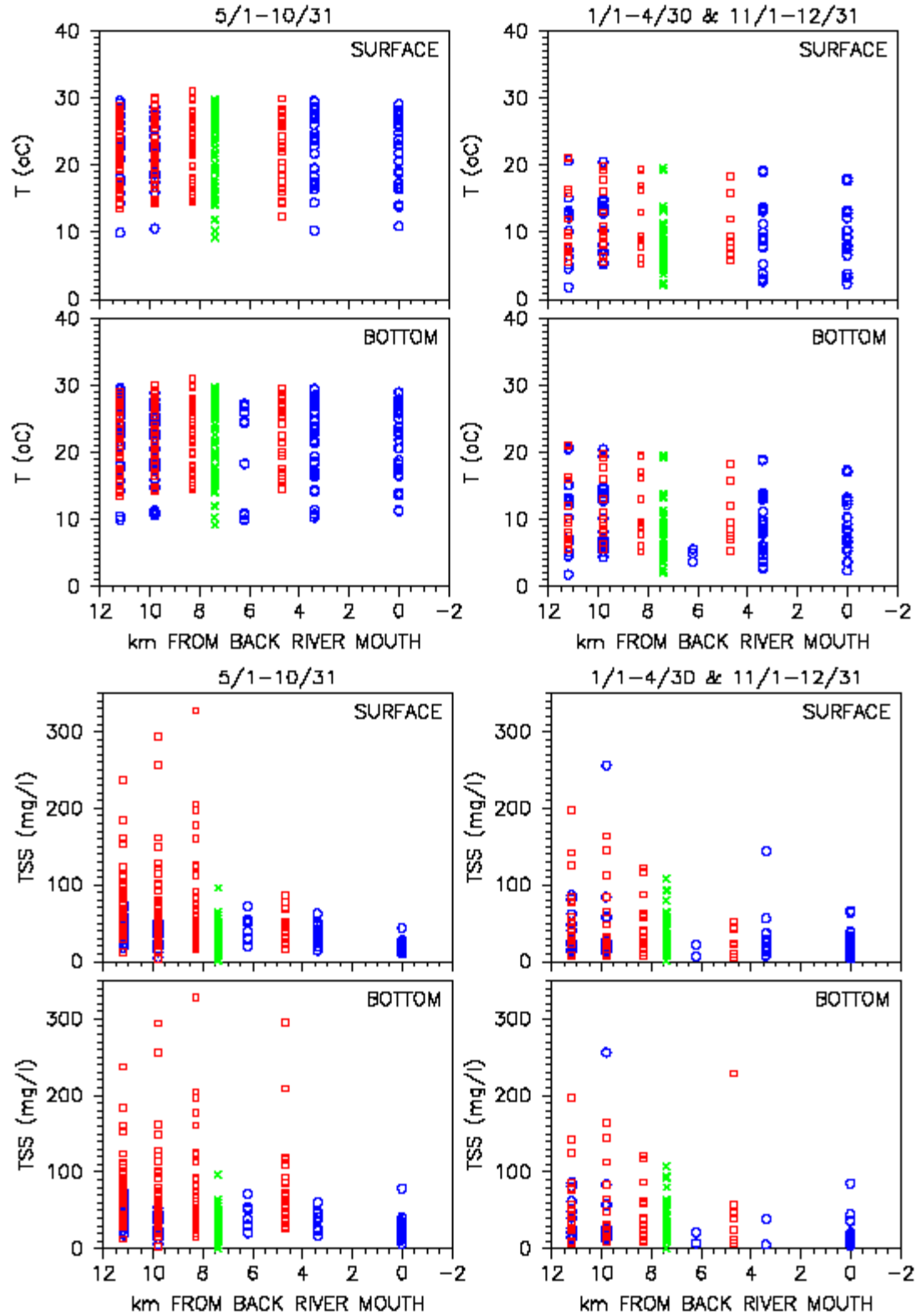


Fig. 58. Longitudinal plots for temperature and total suspended solids for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

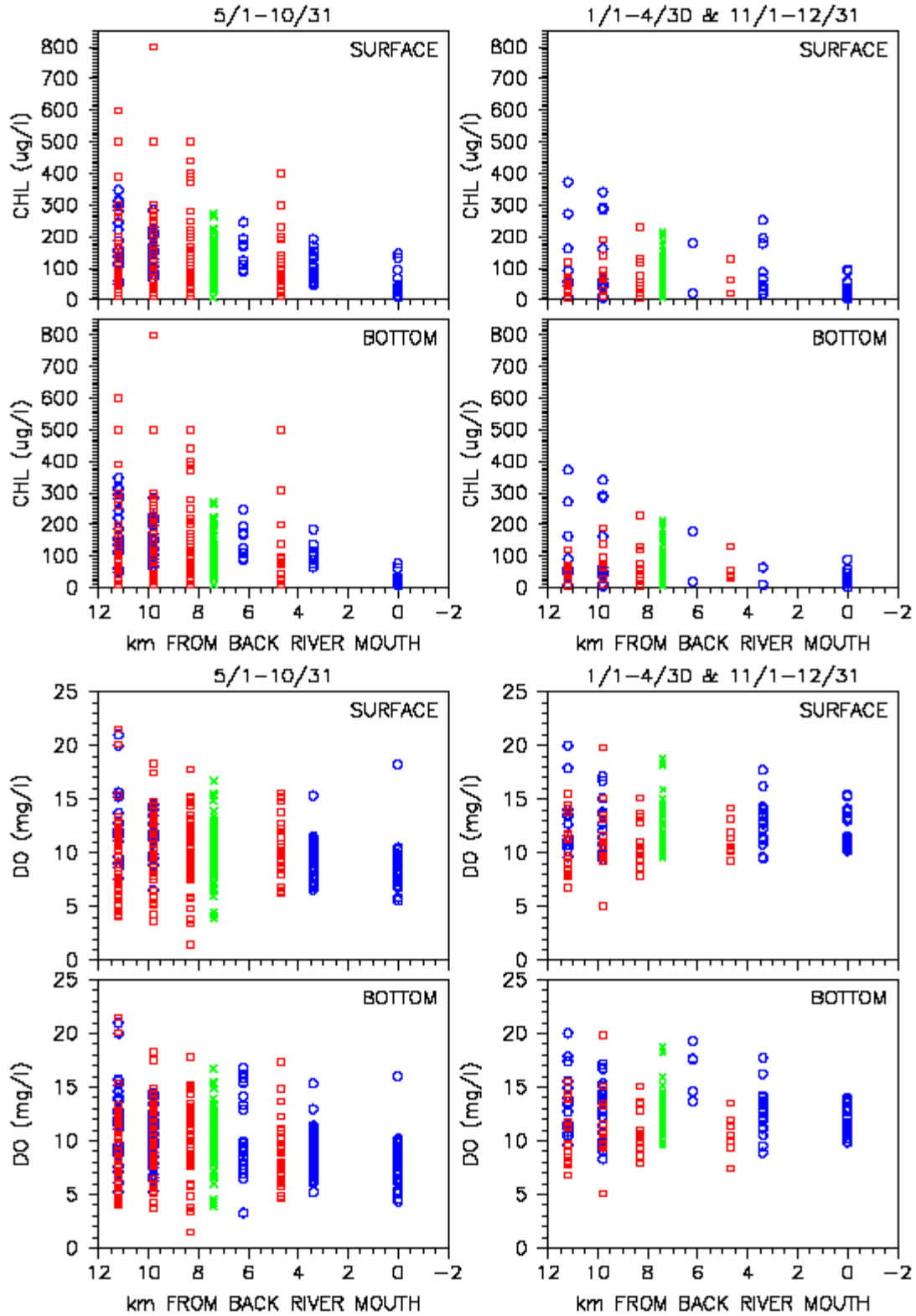


Fig. 59. Longitudinal plots for chlorophyll a and dissolved oxygen for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

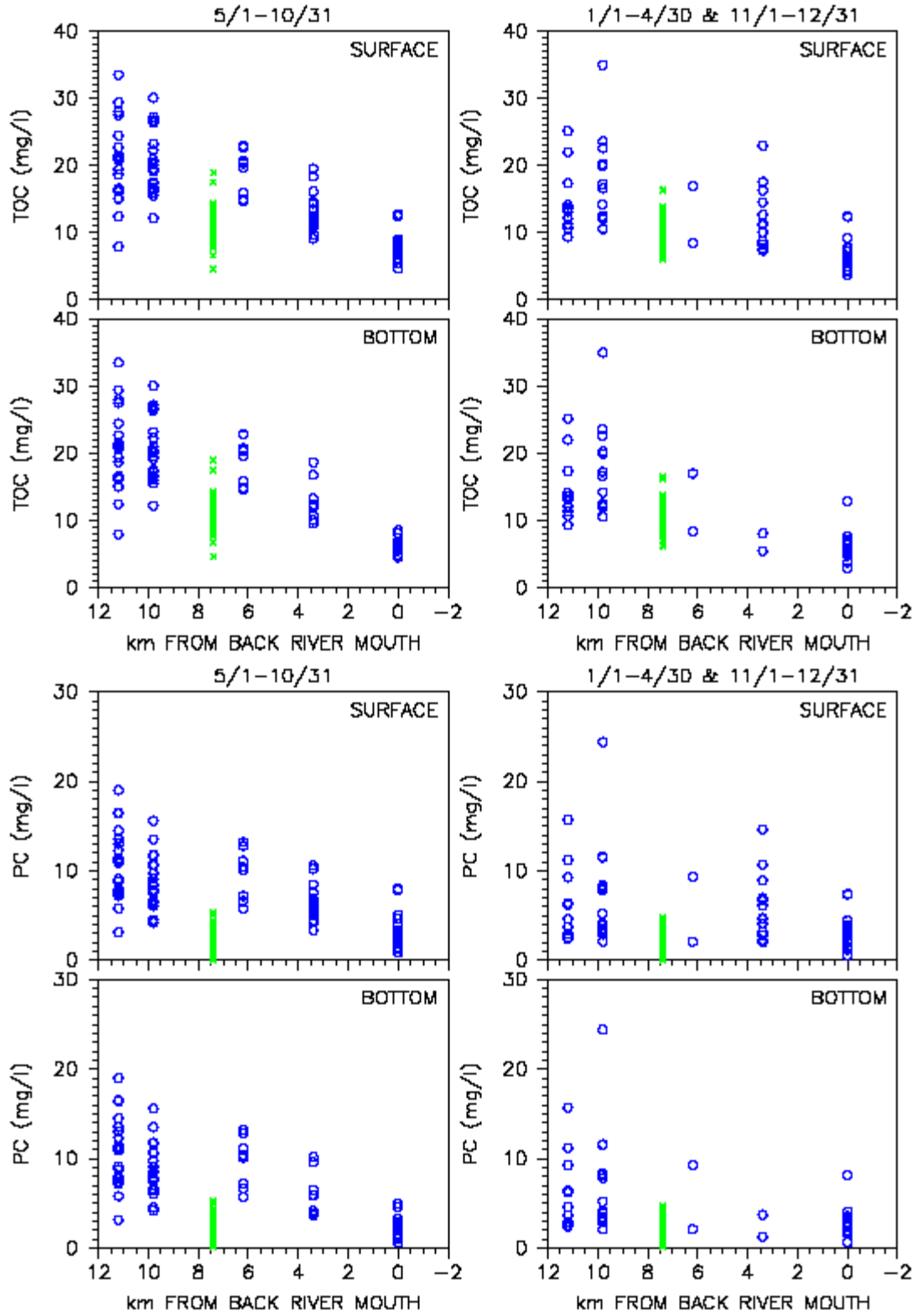


Fig. 60. Longitudinal plots for total organic carbon and particulate carbon for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

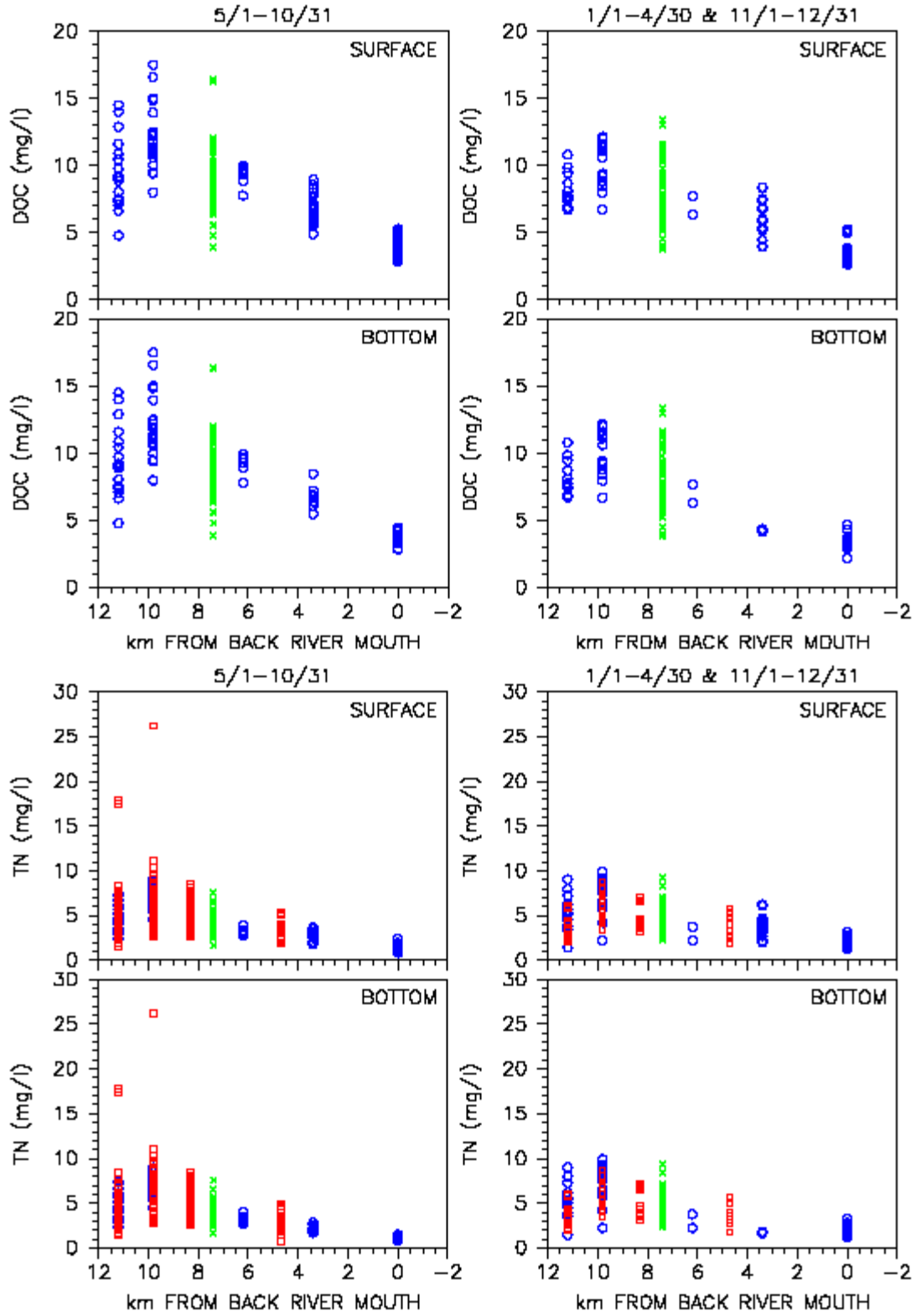


Fig. 61. Longitudinal plots for dissolved organic carbon and total nitrogen for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

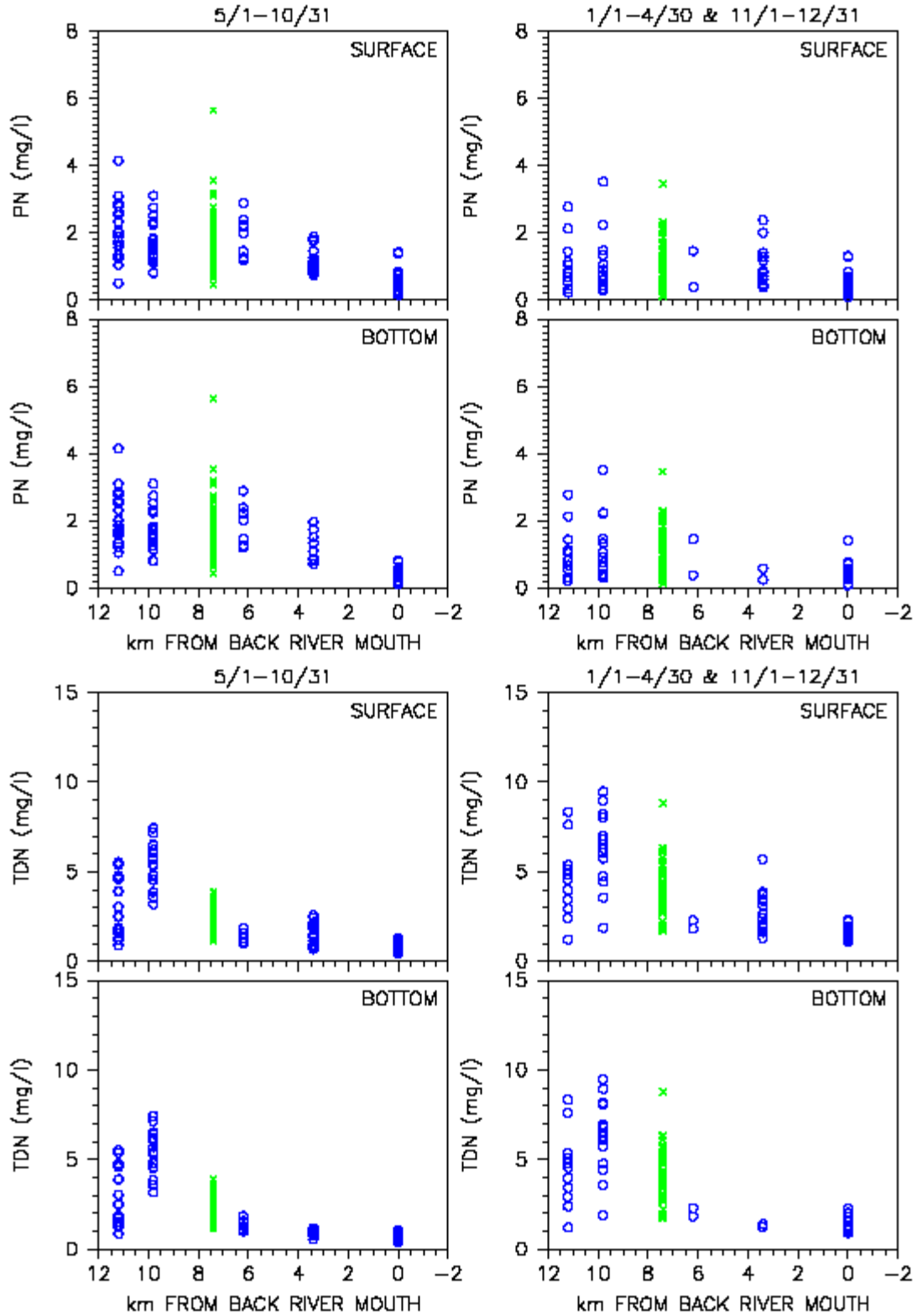


Fig. 62. Longitudinal plots for particulate nitrogen and total dissolved nitrogen for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

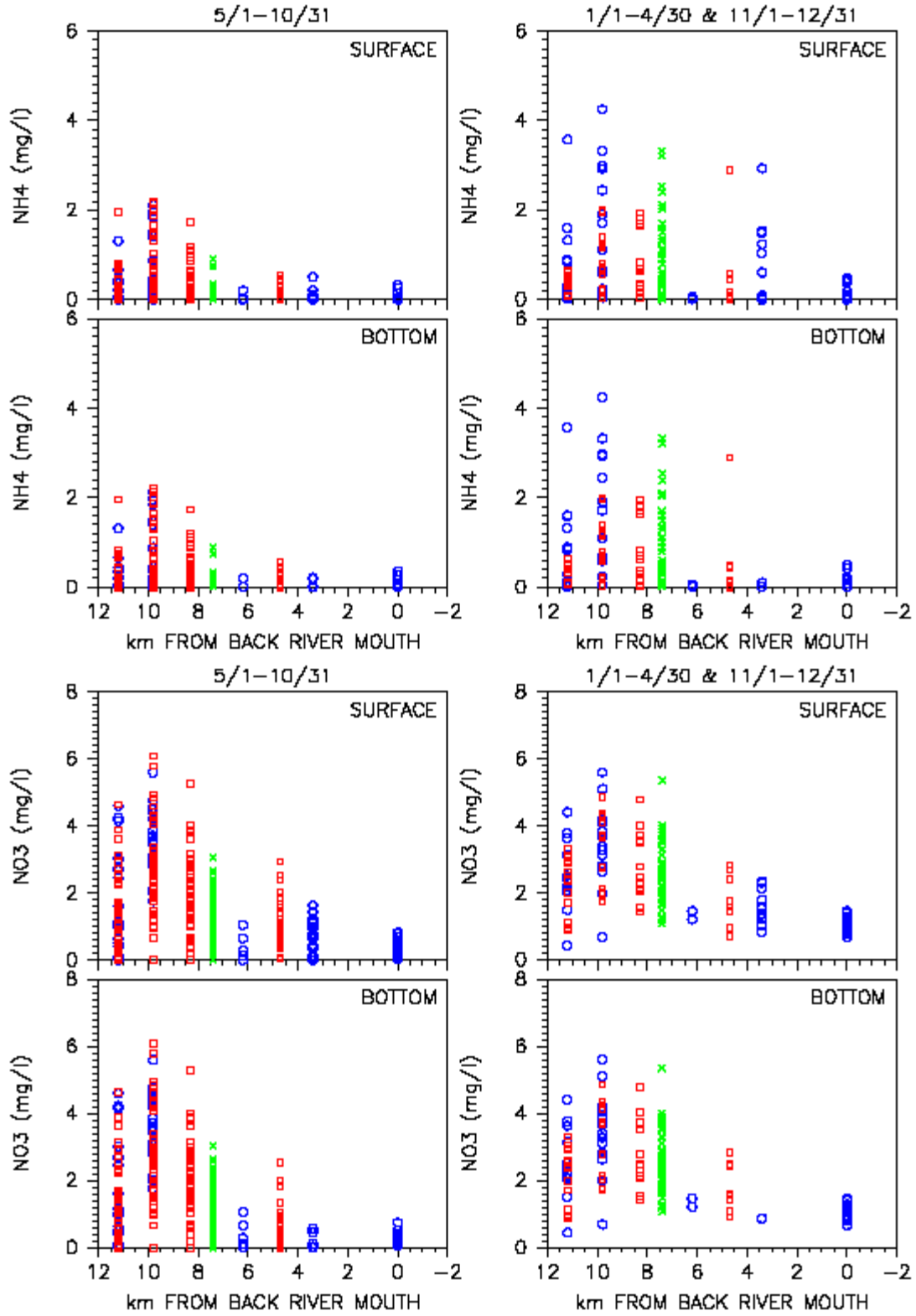


Fig. 63. Longitudinal plots for ammonia and nitrate nitrogen for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

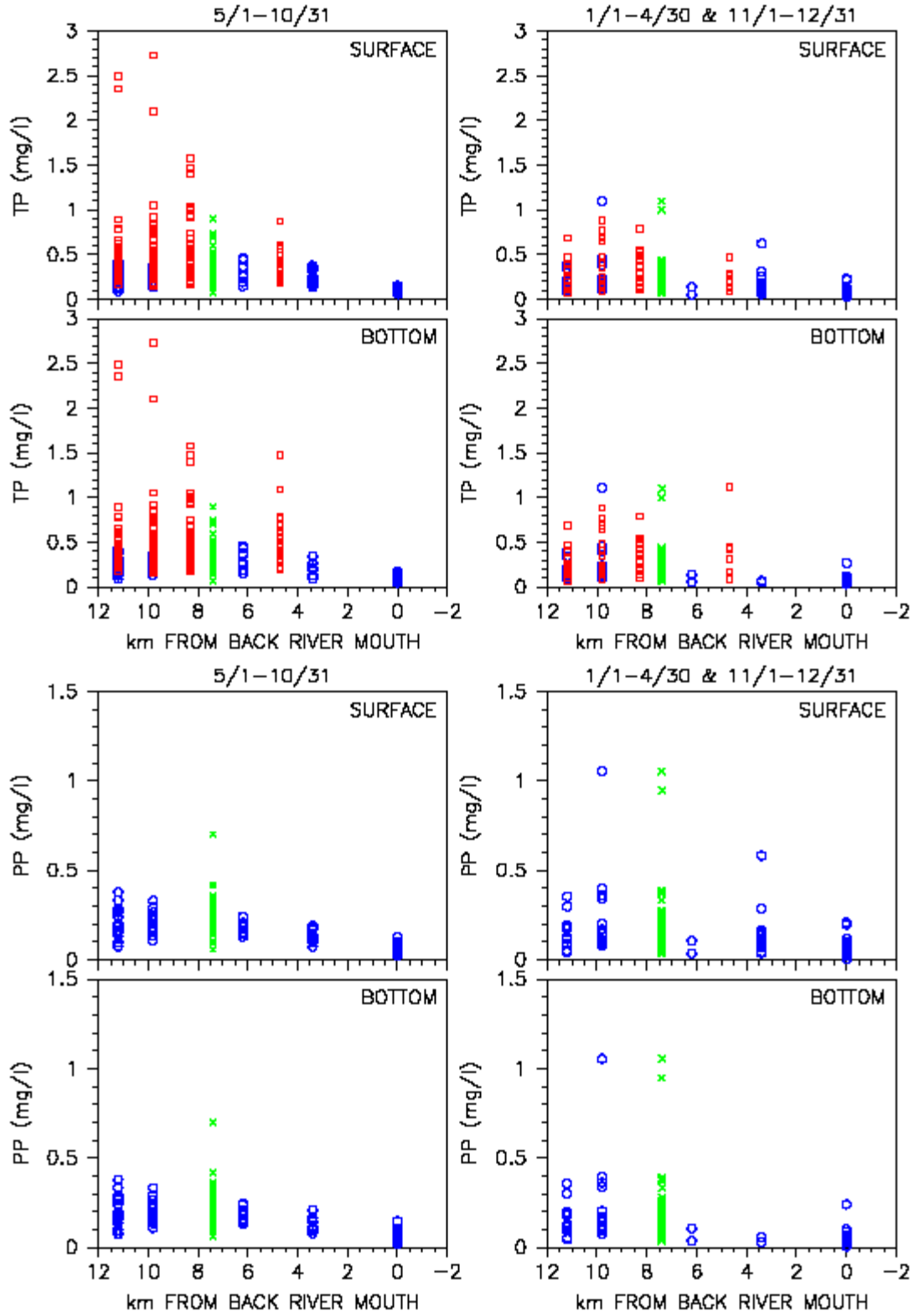


Fig. 64. Longitudinal plots for total phosphorus and particulate phosphorus for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

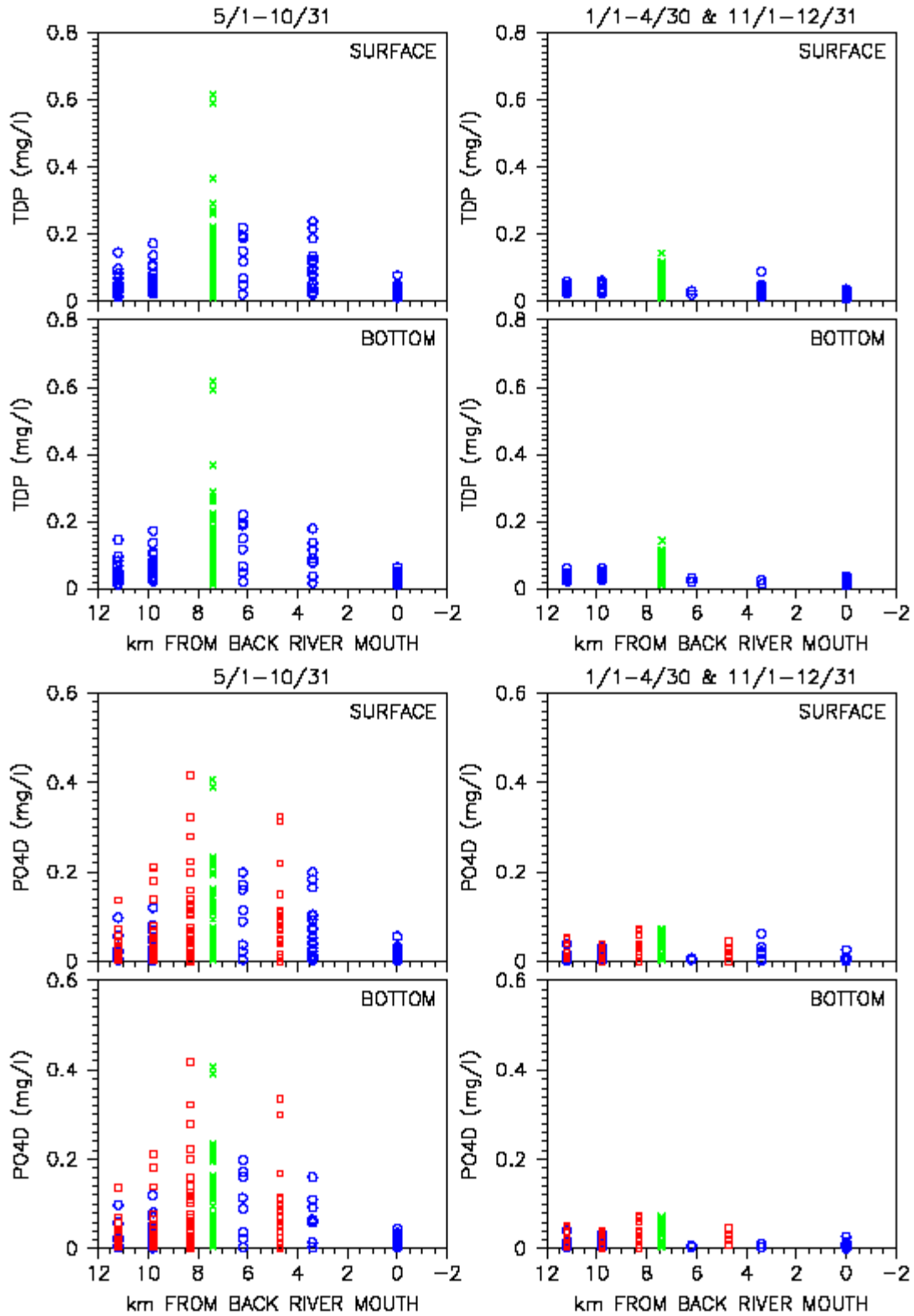


Fig. 65. Longitudinal plots for total dissolved phosphorus and dissolved phosphate for Back River (\square : Baltimore City data; \circ : MDE data; \times : CBP data)

FINAL

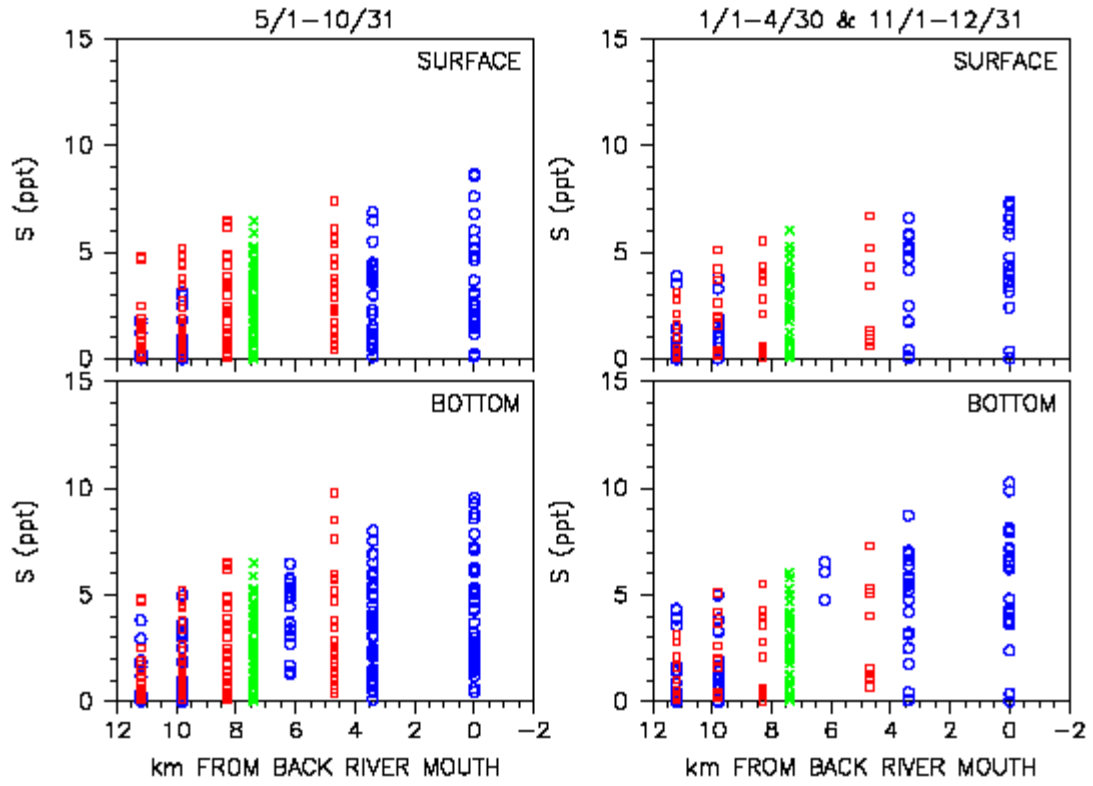


Fig. 66. Longitudinal plots for salinity for Back River
(\square : Baltimore City data; \circ : MDE data; \times : CBP data)