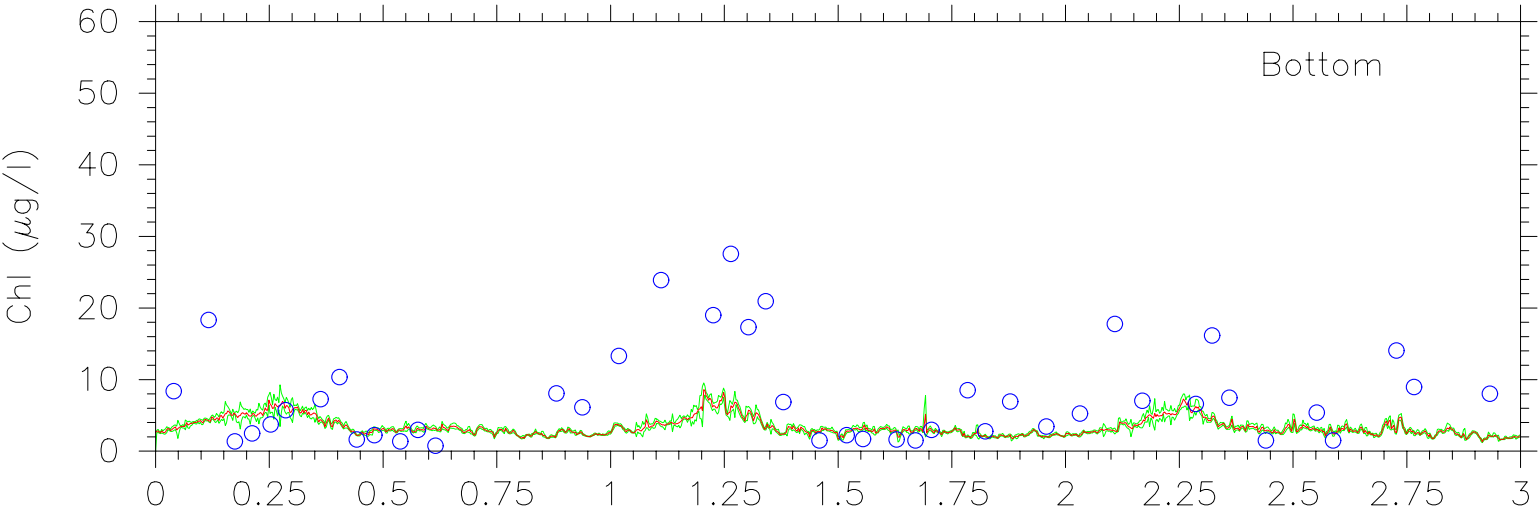
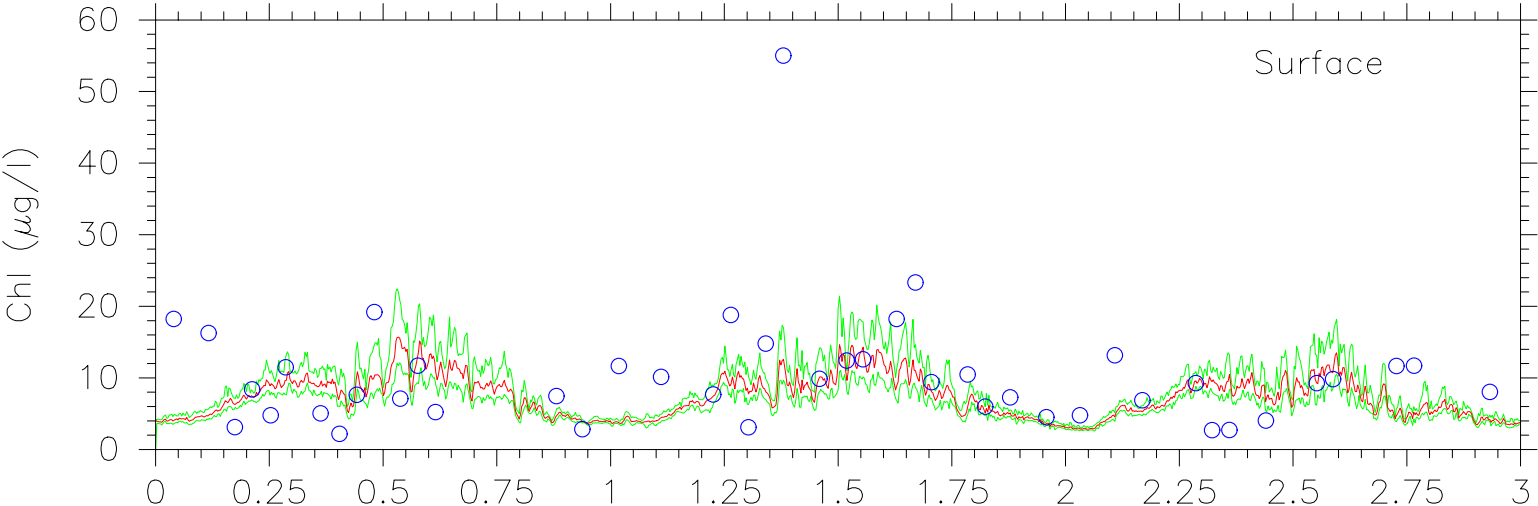


Appendix 5-A

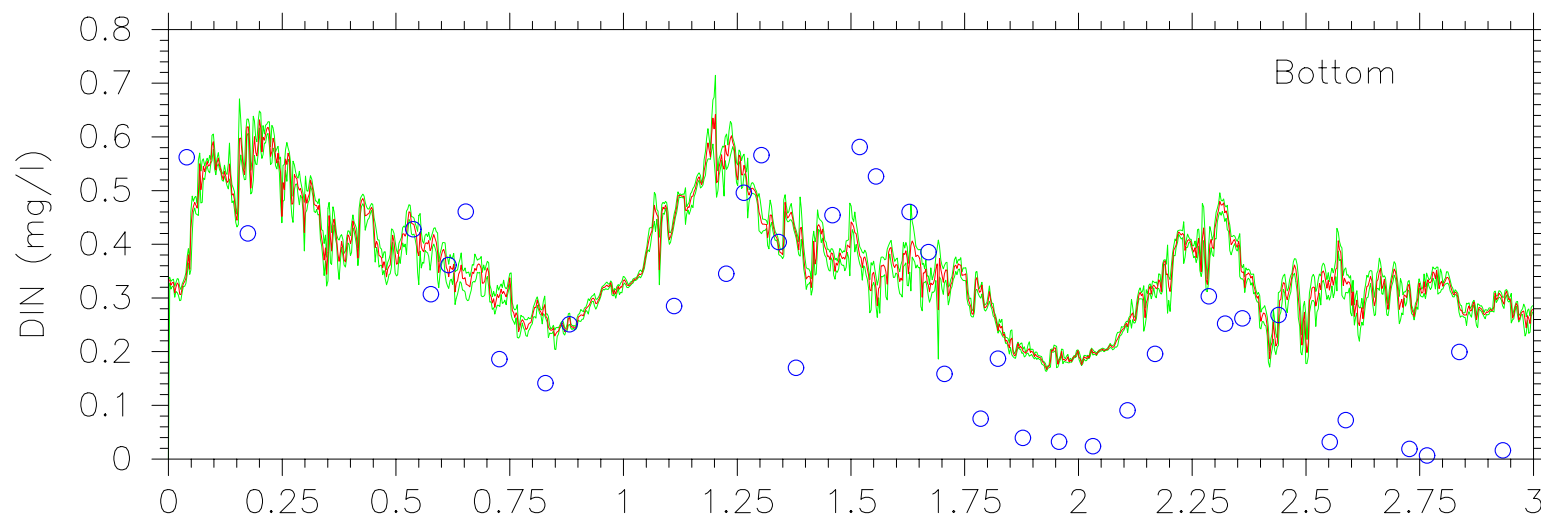
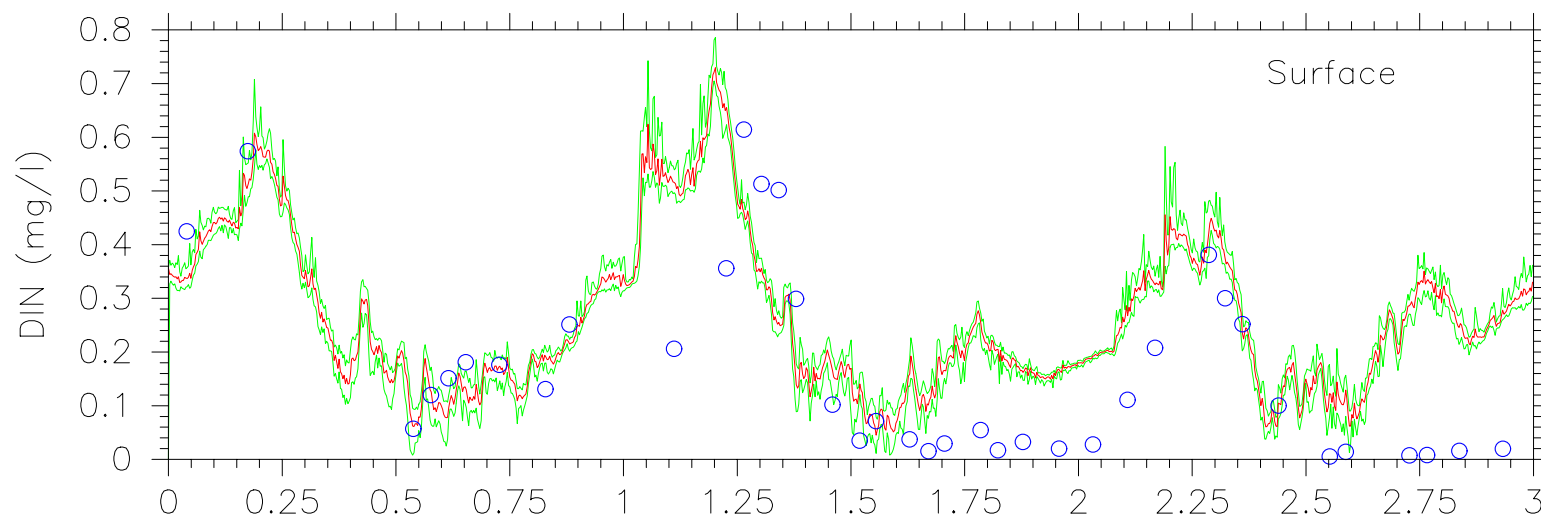
This appendix contains time series plots of observed and computed properties (surface and bottom) at CBP long term stations EE1.1, ET4.1, and ET4.2.

Chlorophyll,EE1.1



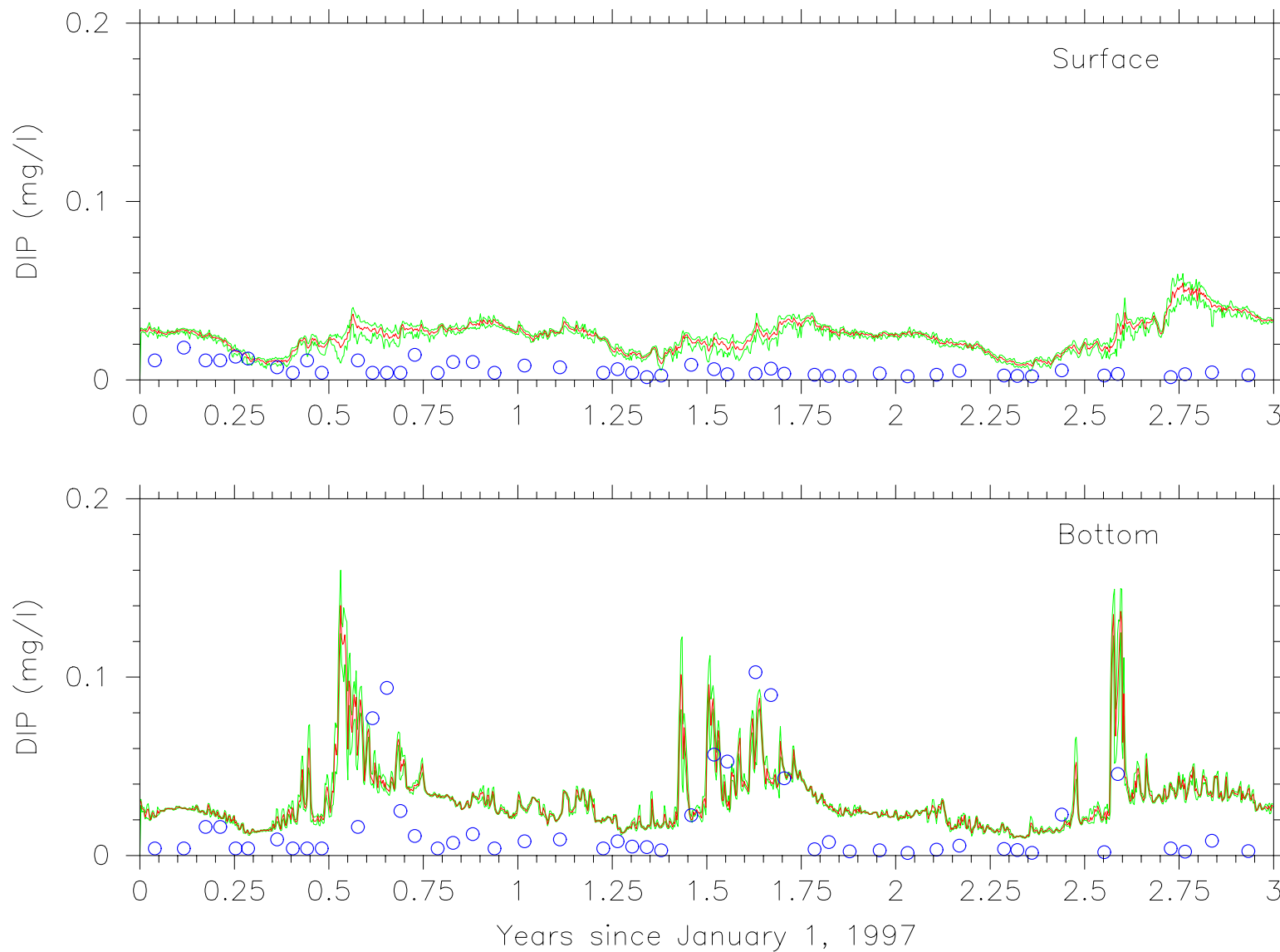
Years since January 1, 1997

Dissolved Inorganic Nitrogen, EE1.1

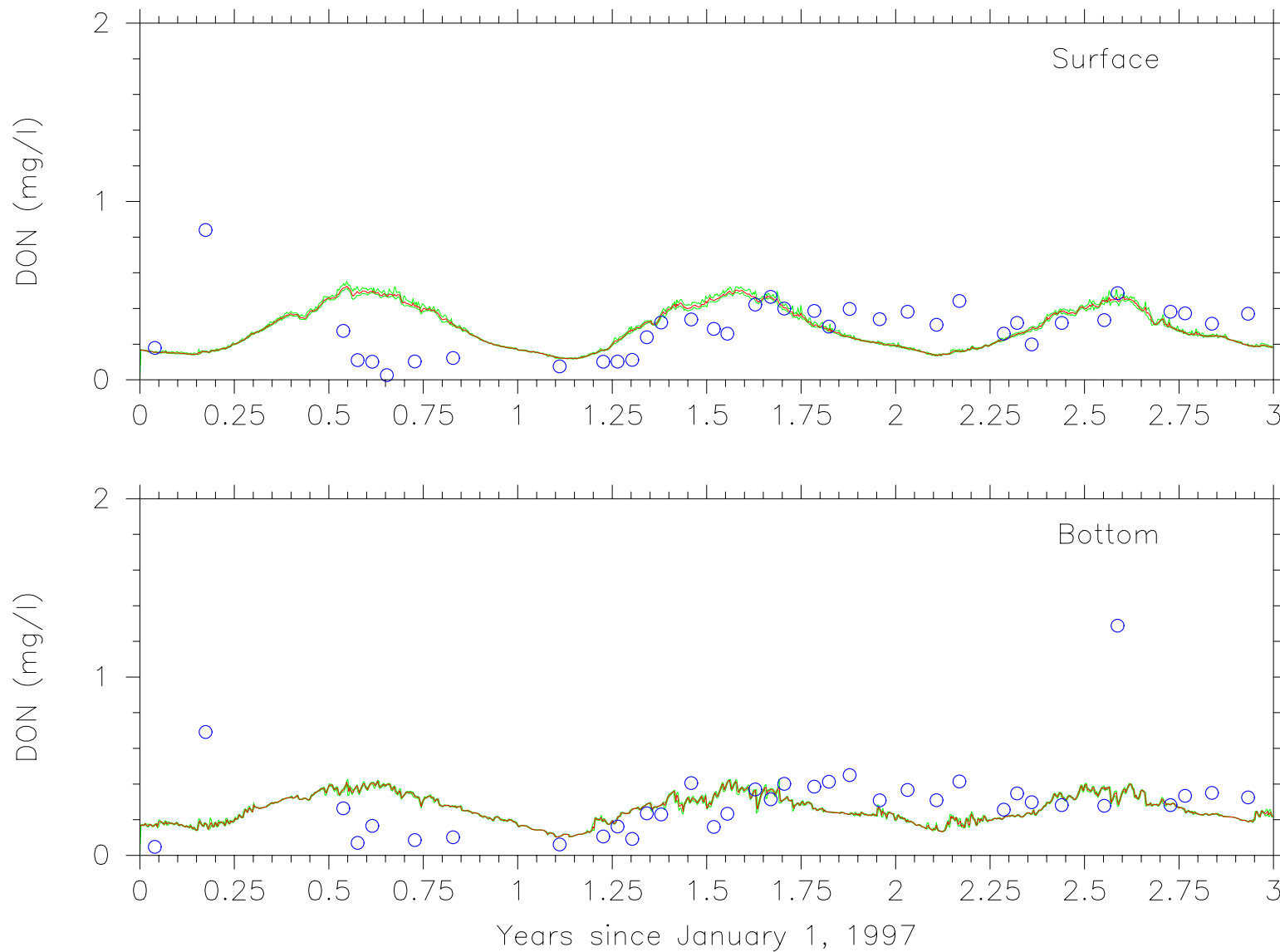


Years since January 1, 1997

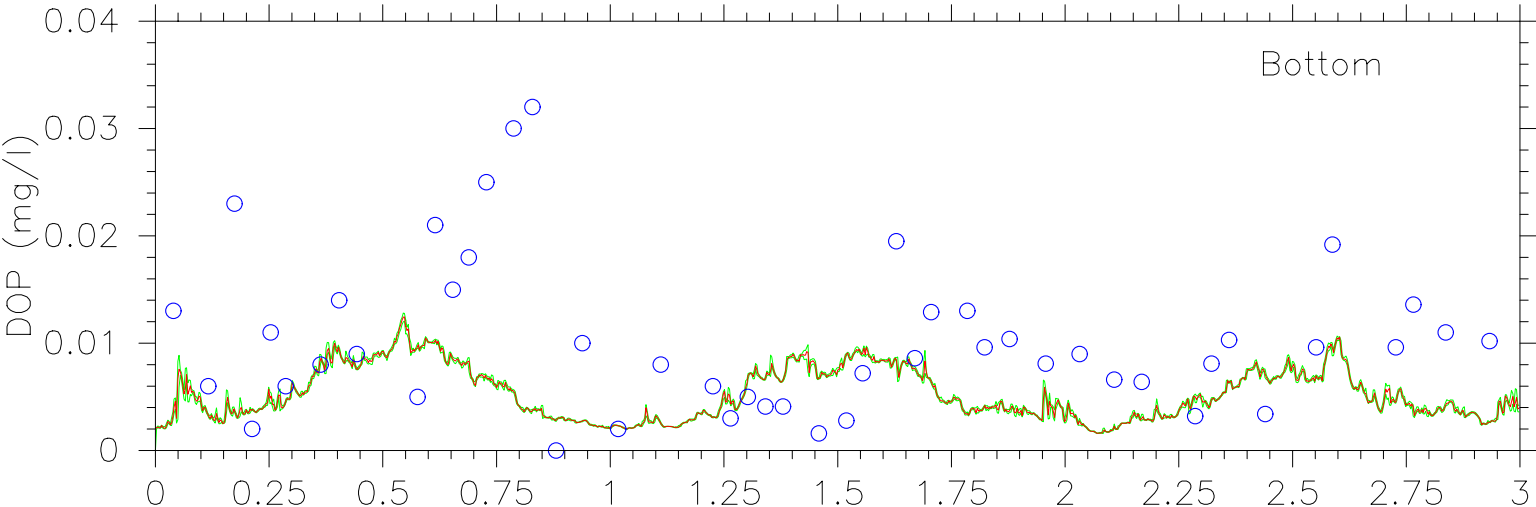
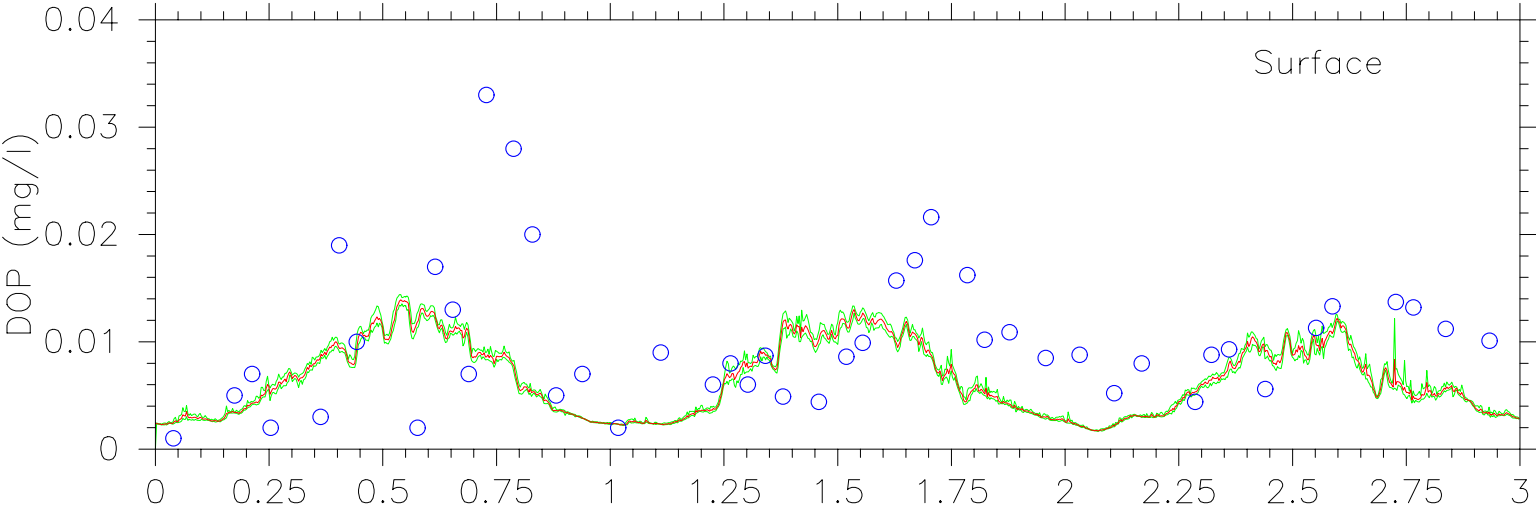
Dissolved Inorganic Phosphorus,EE1.1



Dissolved Organic Nitrogen,EE1.1

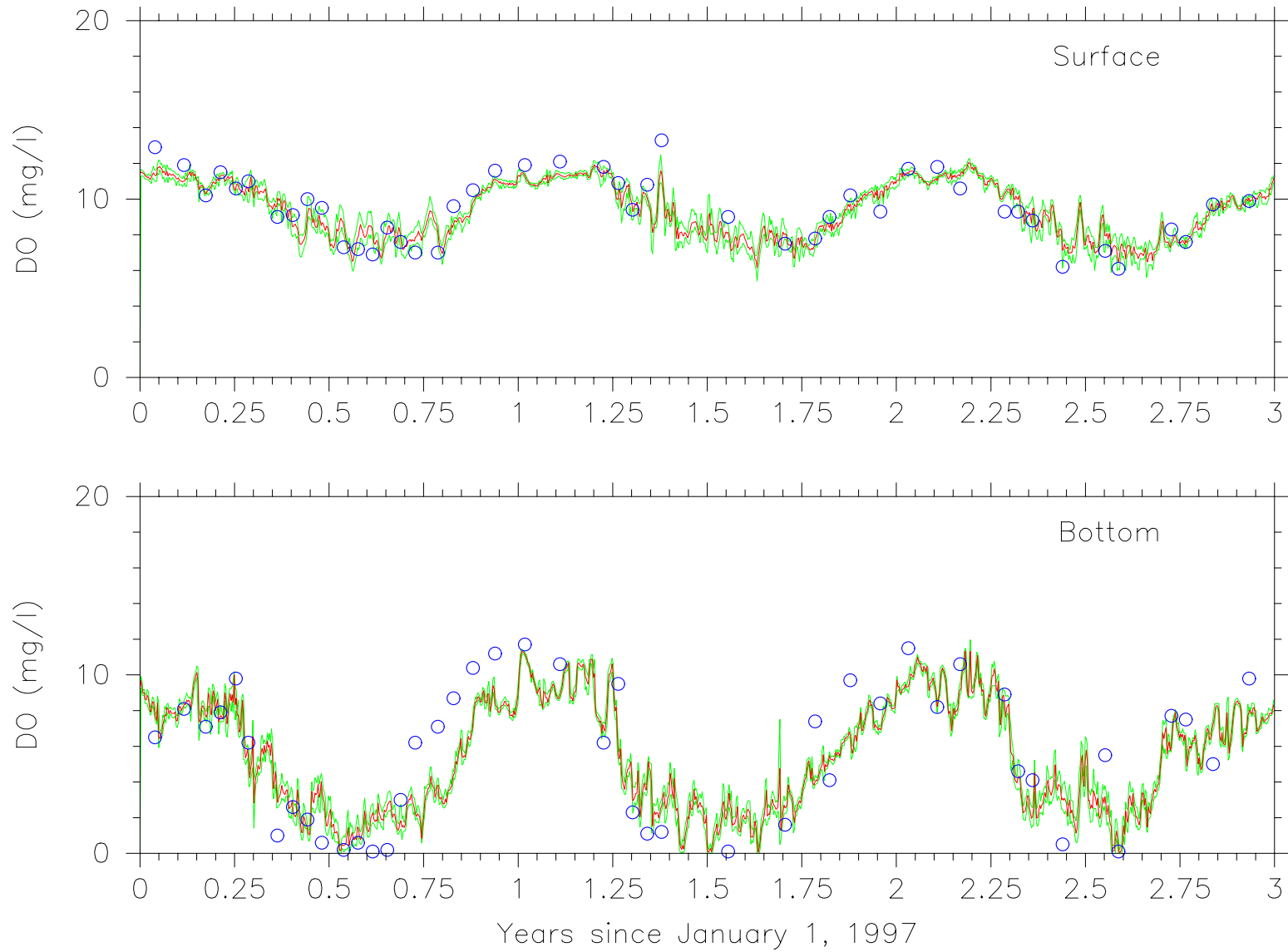


Dissolved Organic Phosphorus,EE1.1

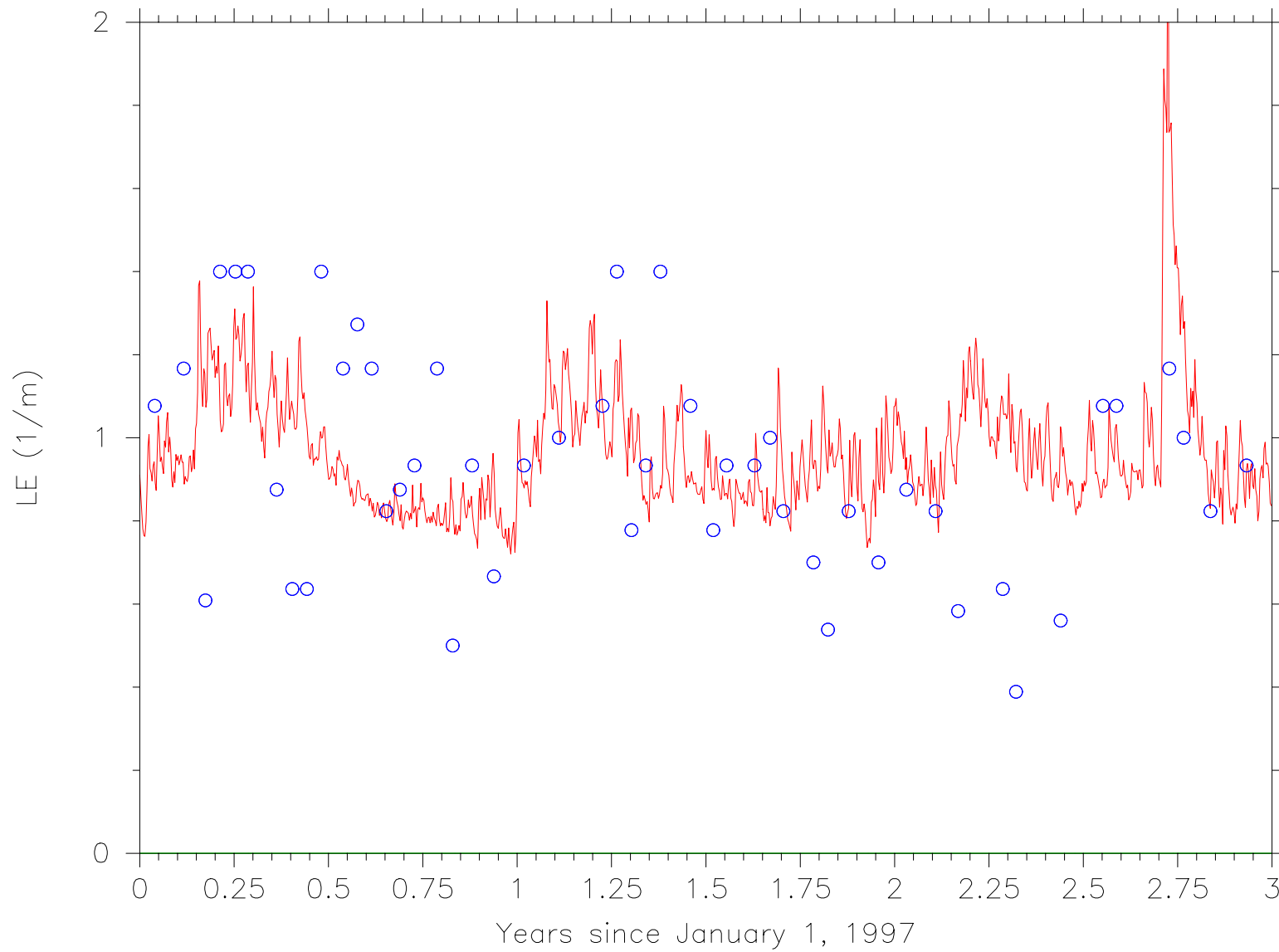


Years since January 1, 1997

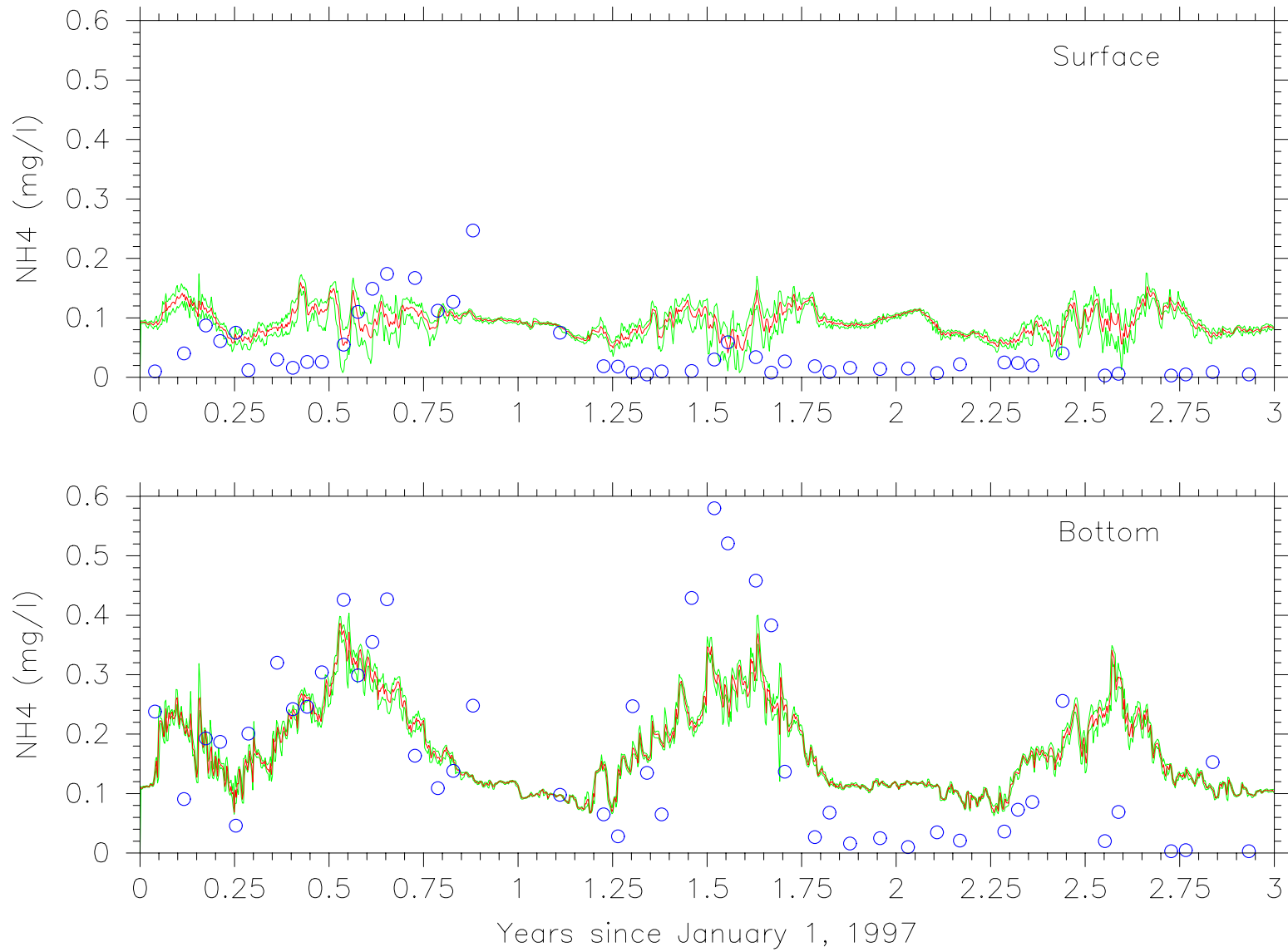
Dissolved Oxygen, EE1.1



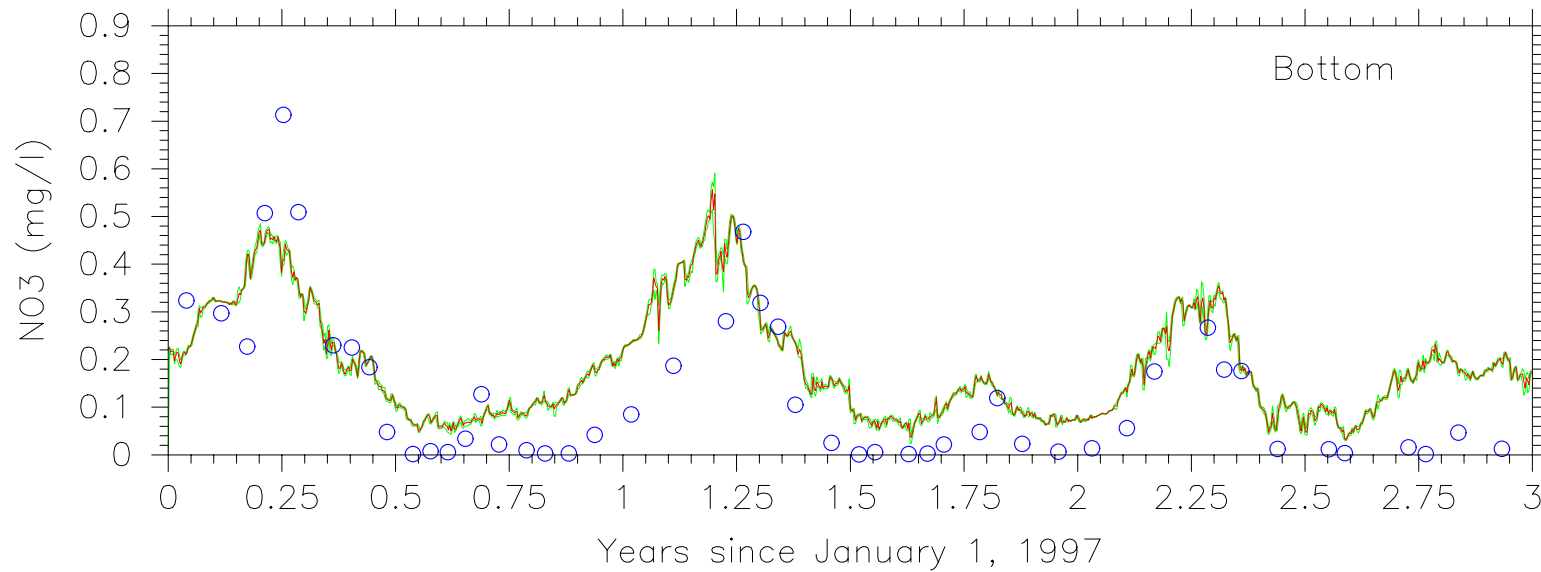
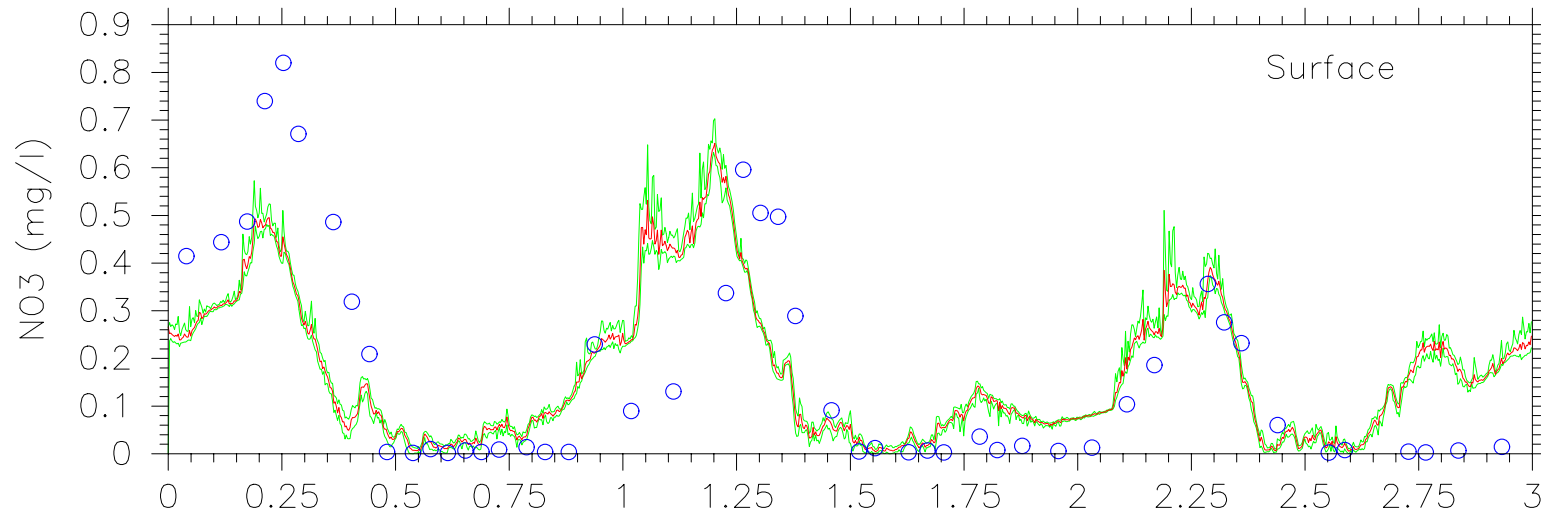
Light Extinction,EE1.1



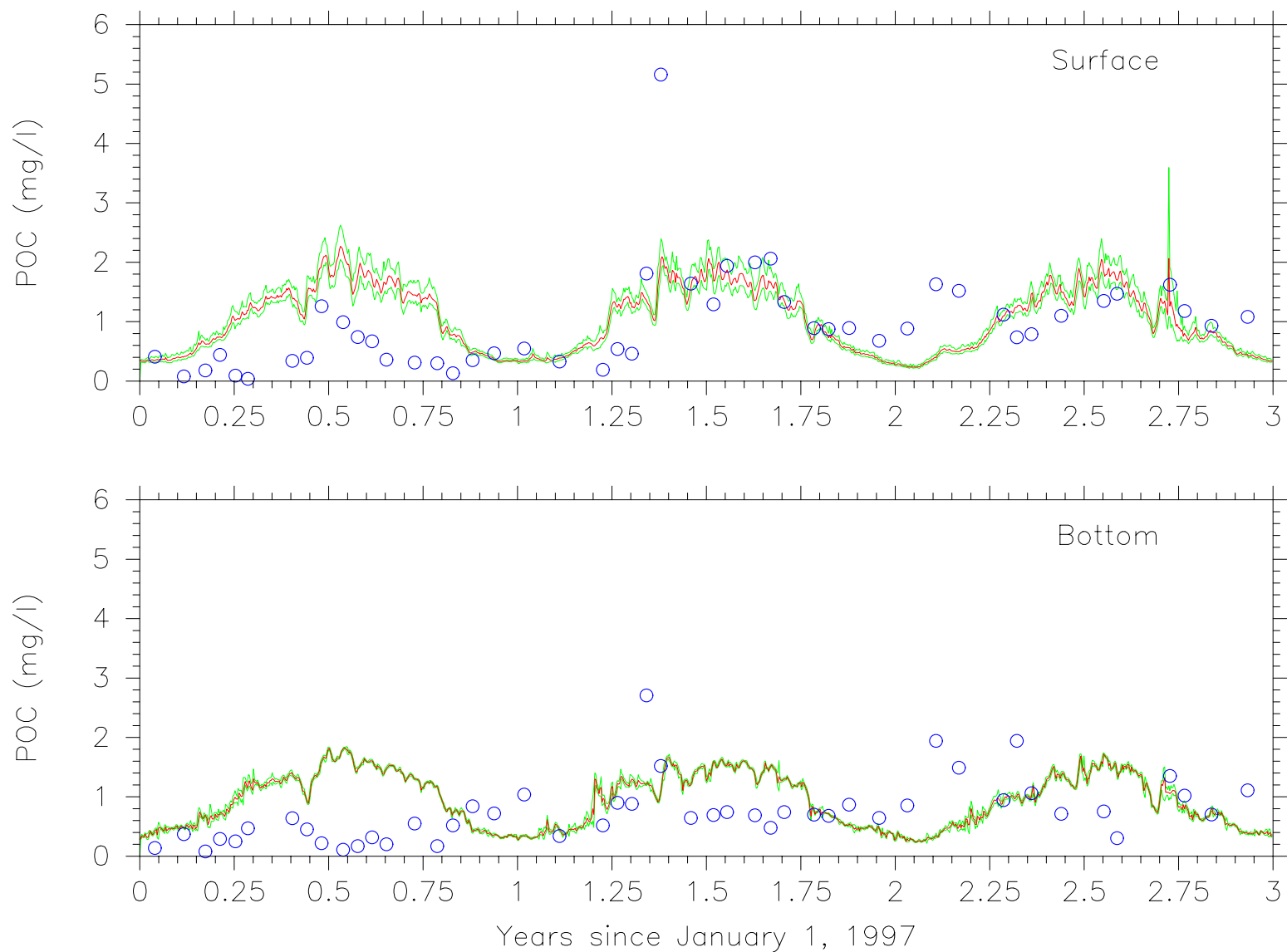
Ammonium,EE1.1



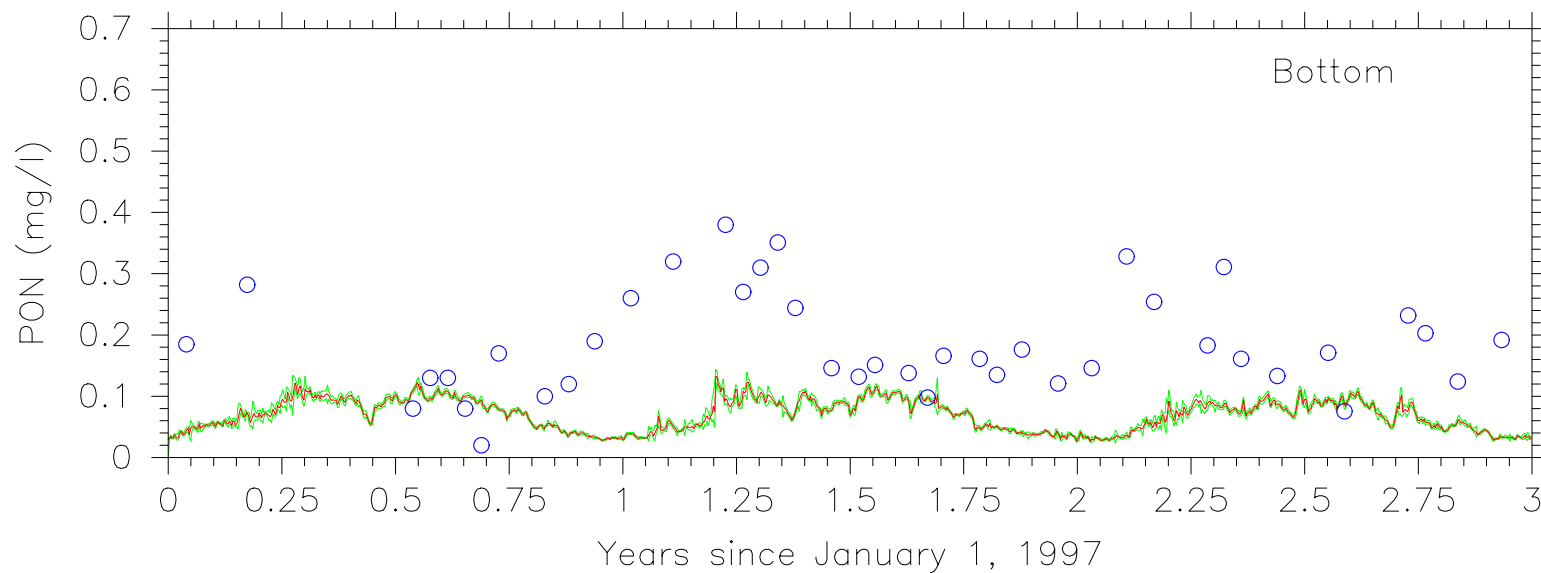
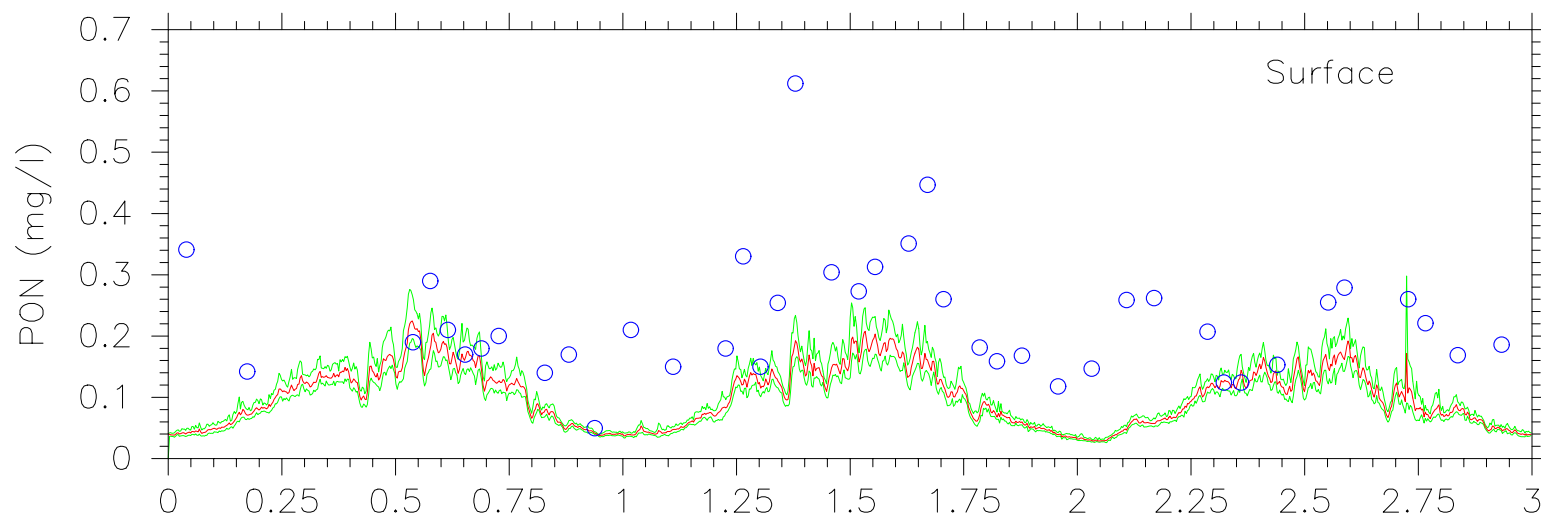
Nitrate,EE1.1



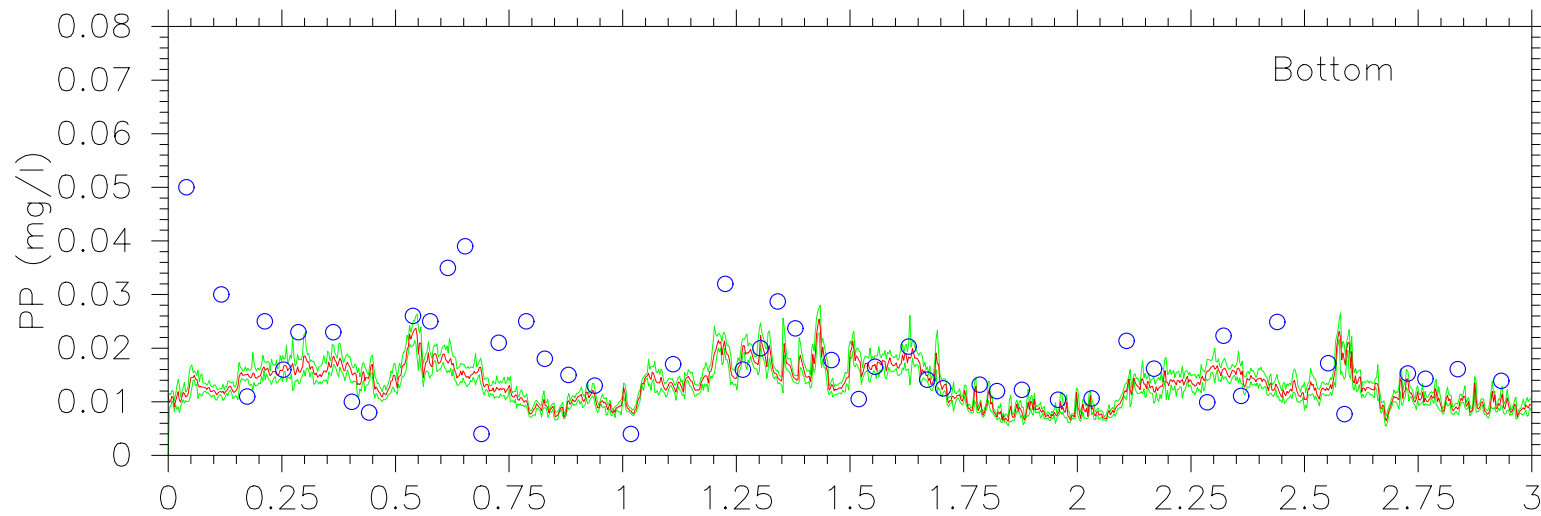
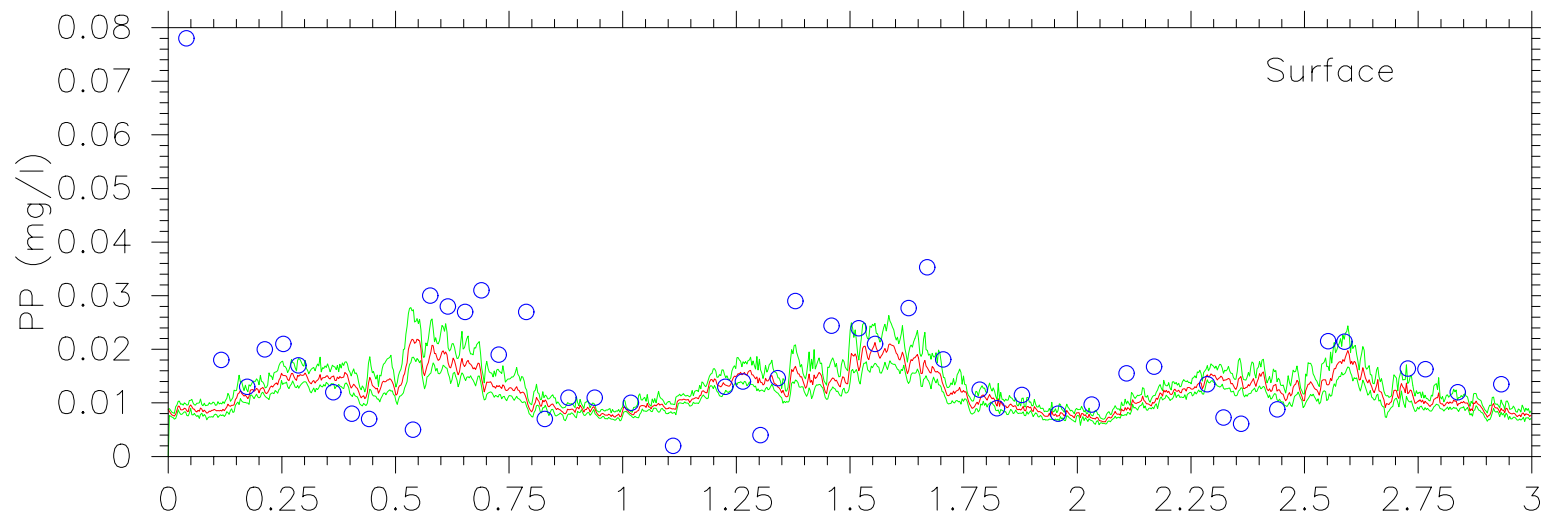
Particulate Organic Carbon,EE1.1



Particulate Organic Nitrogen, EE1.1

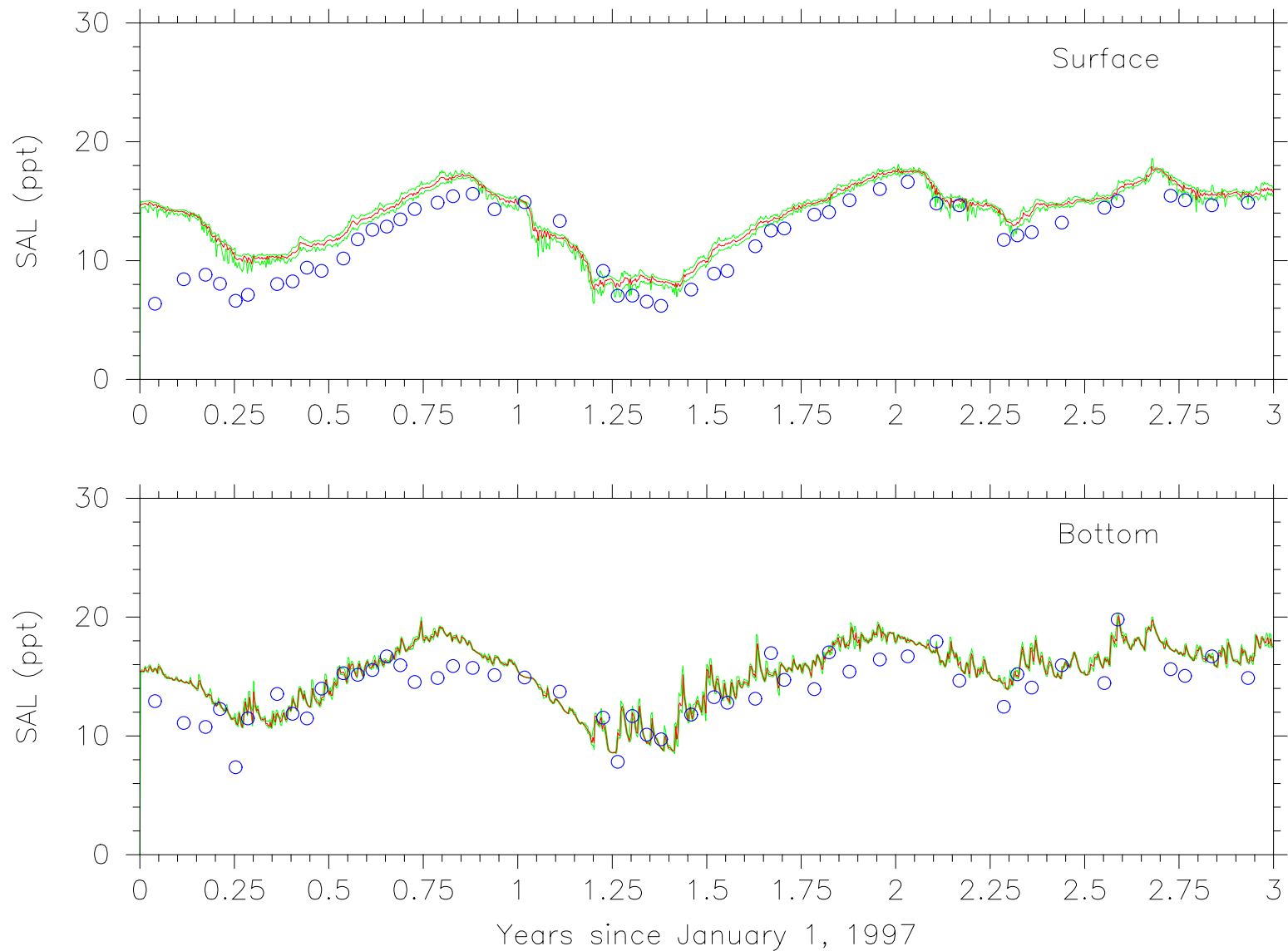


Particulate Phosphorus,EE1.1

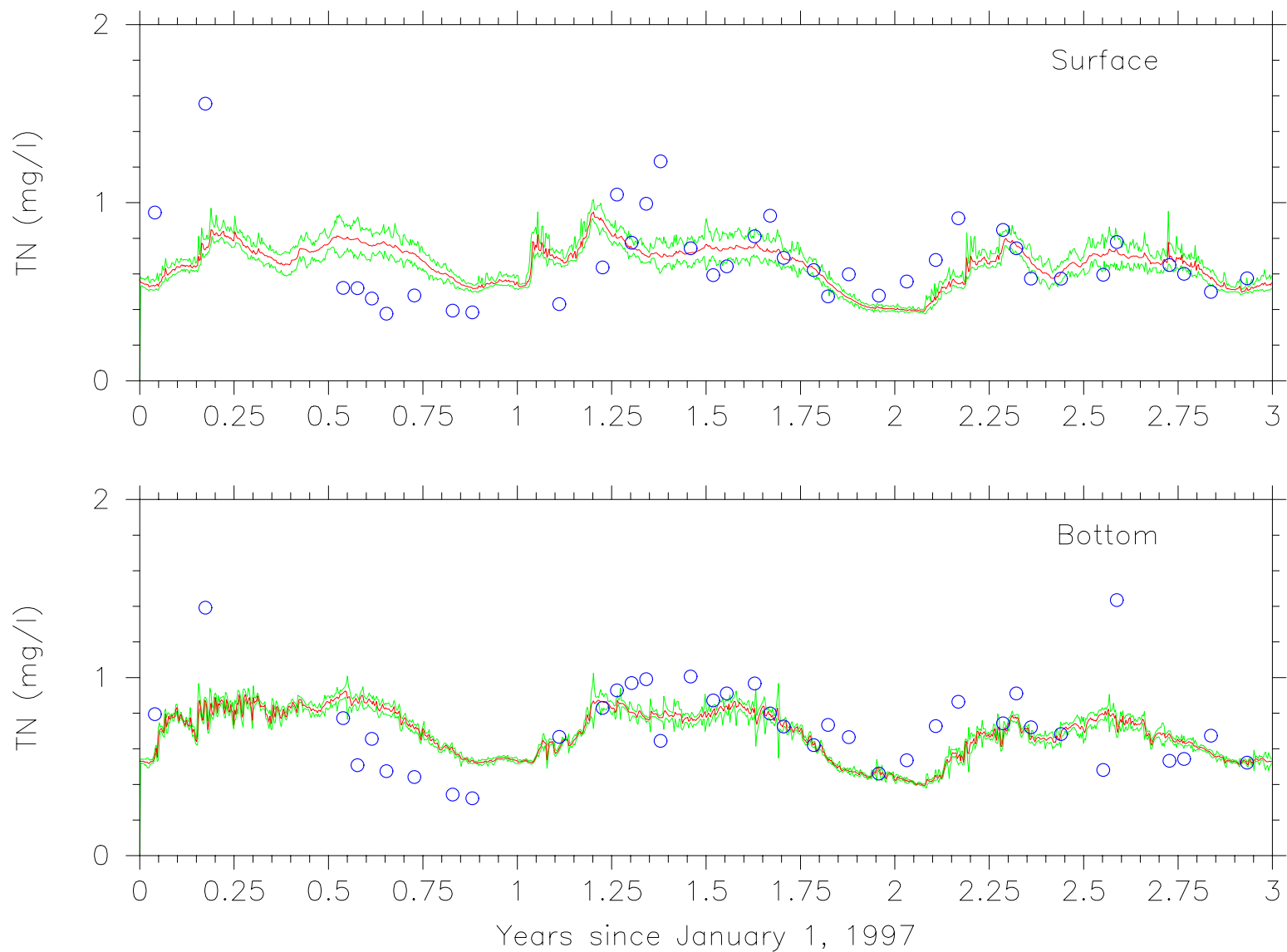


Years since January 1, 1997

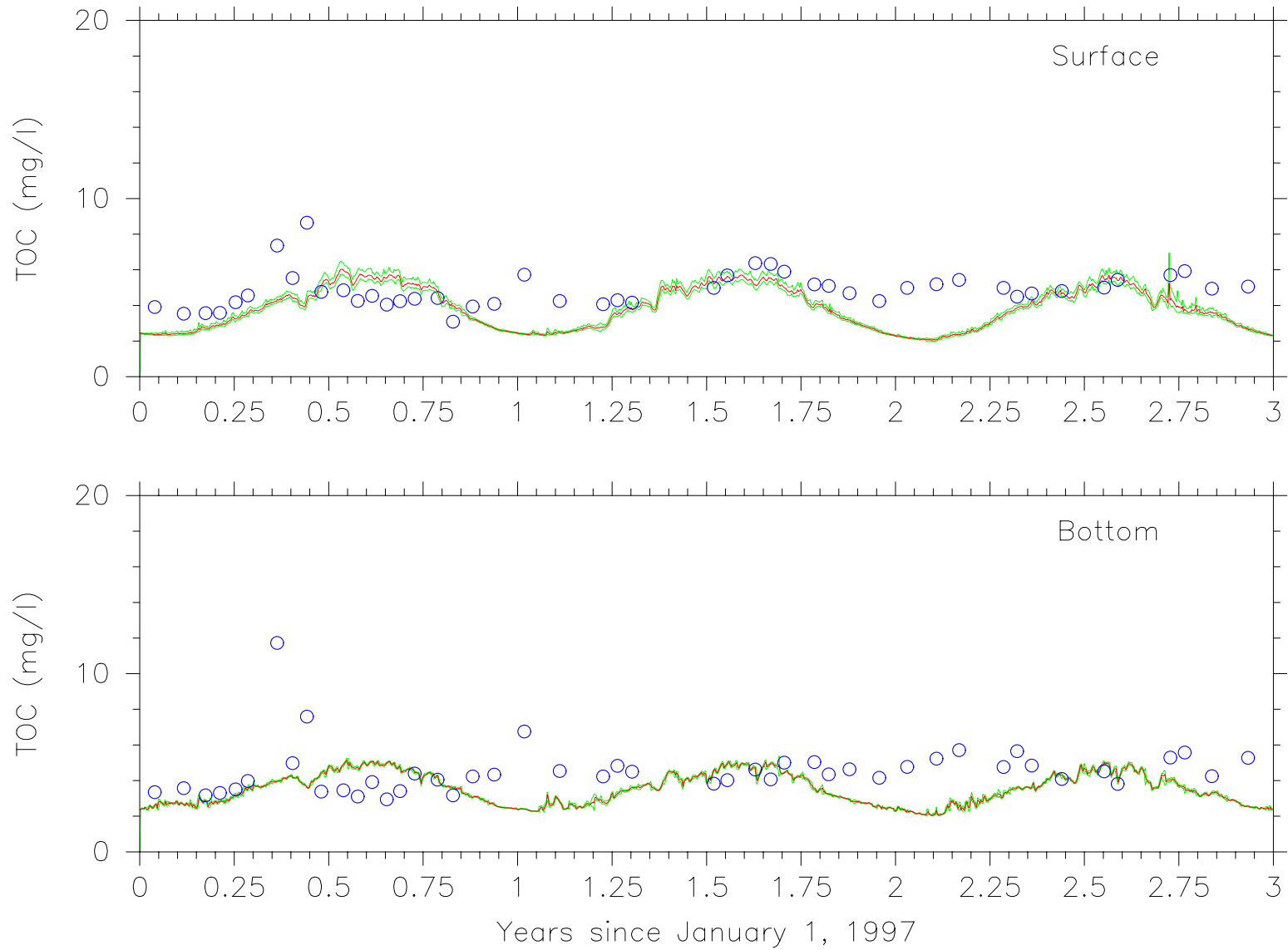
Salinity,EE1.1



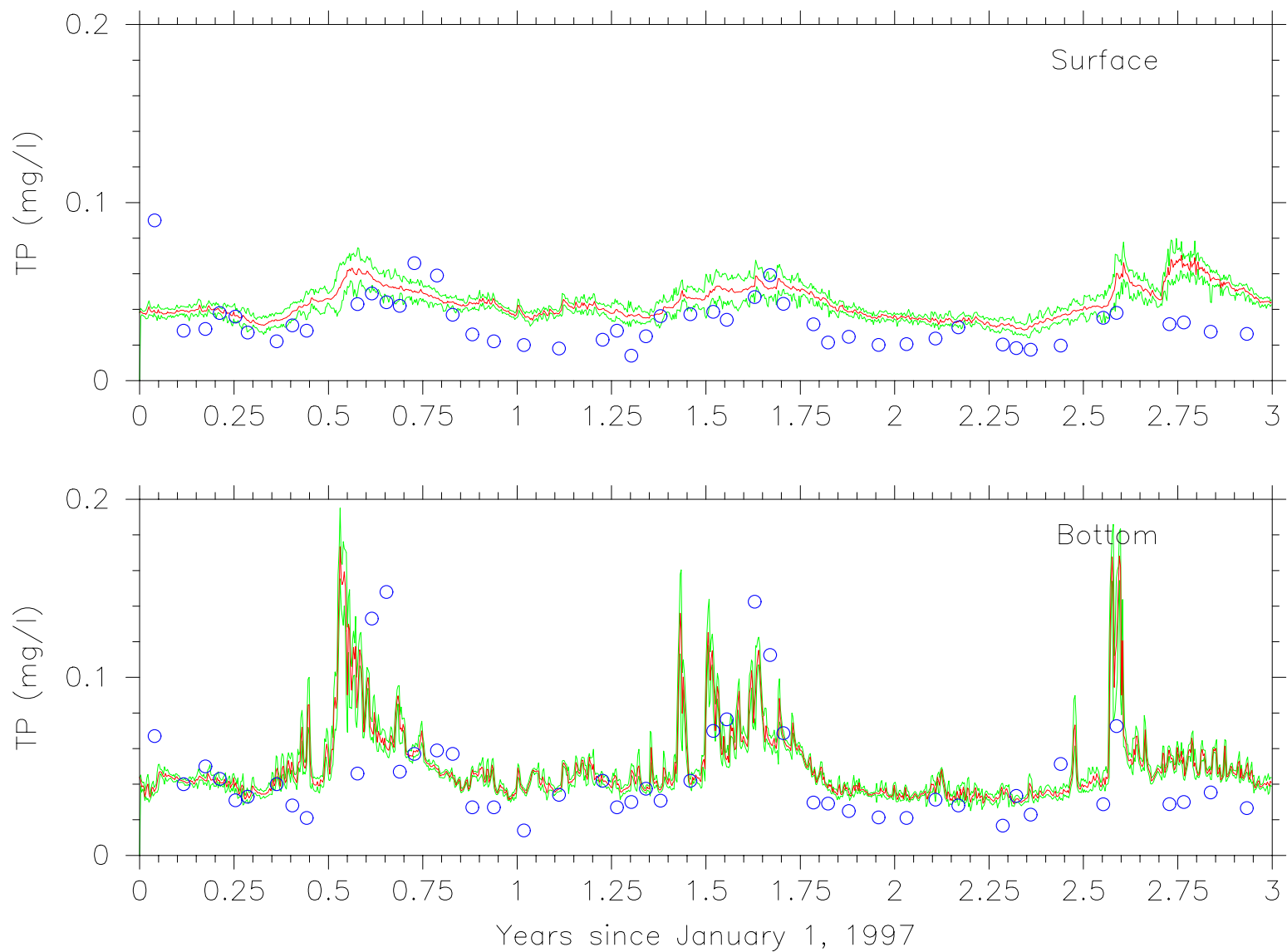
Total Nitrogen,EE1.1



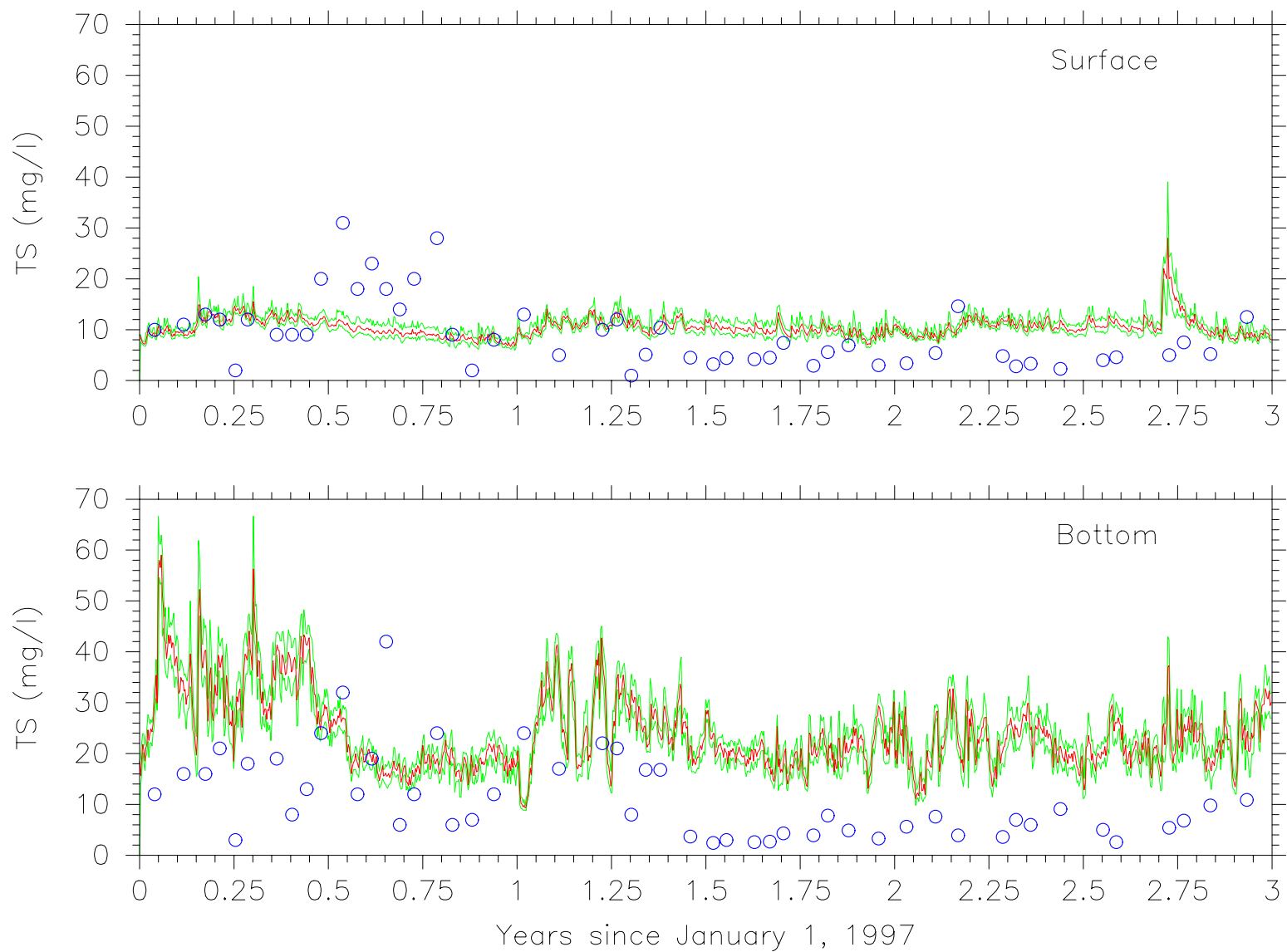
Total Organic Carbon,EE1.1



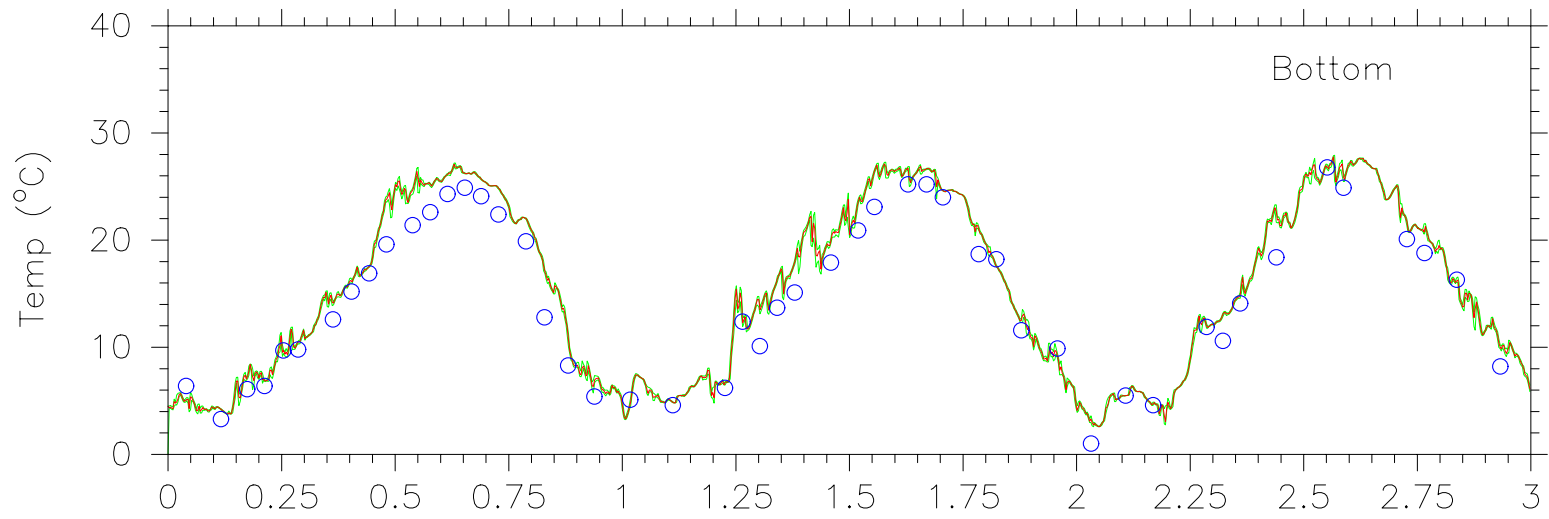
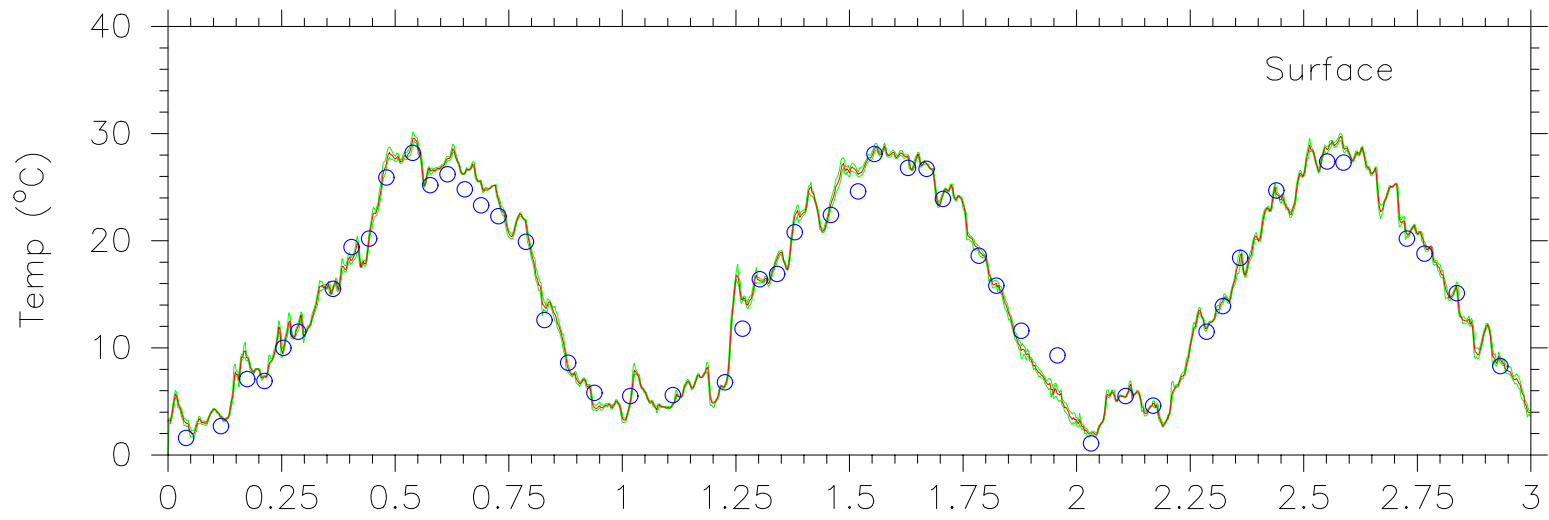
Total Phosphorus,EE1.1



Total Solids,EE1.1

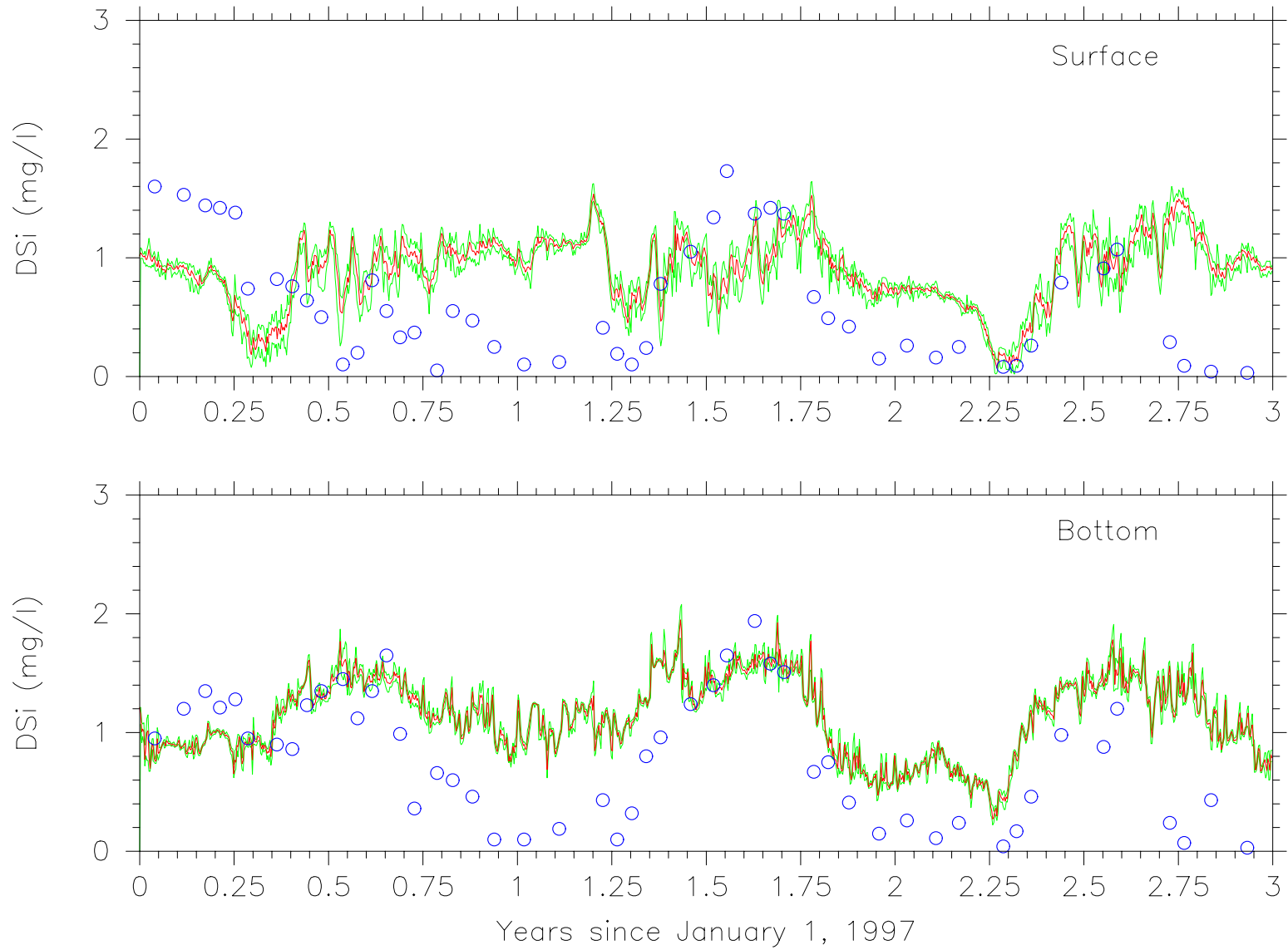


Temperature,EE1.1

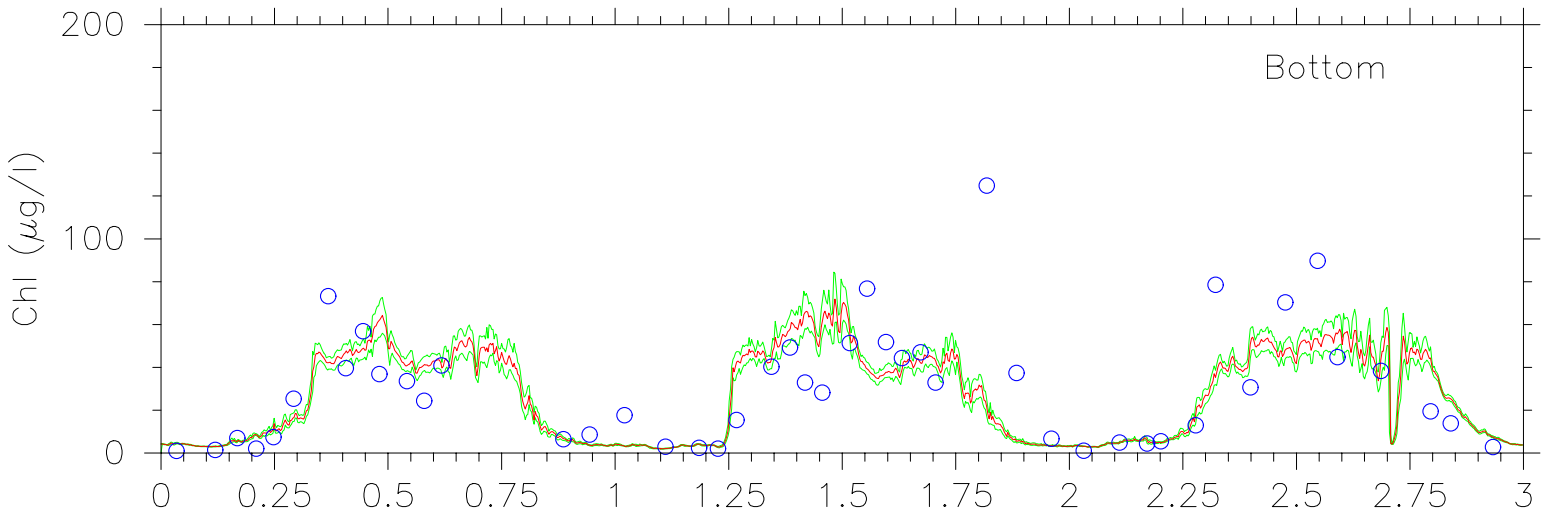
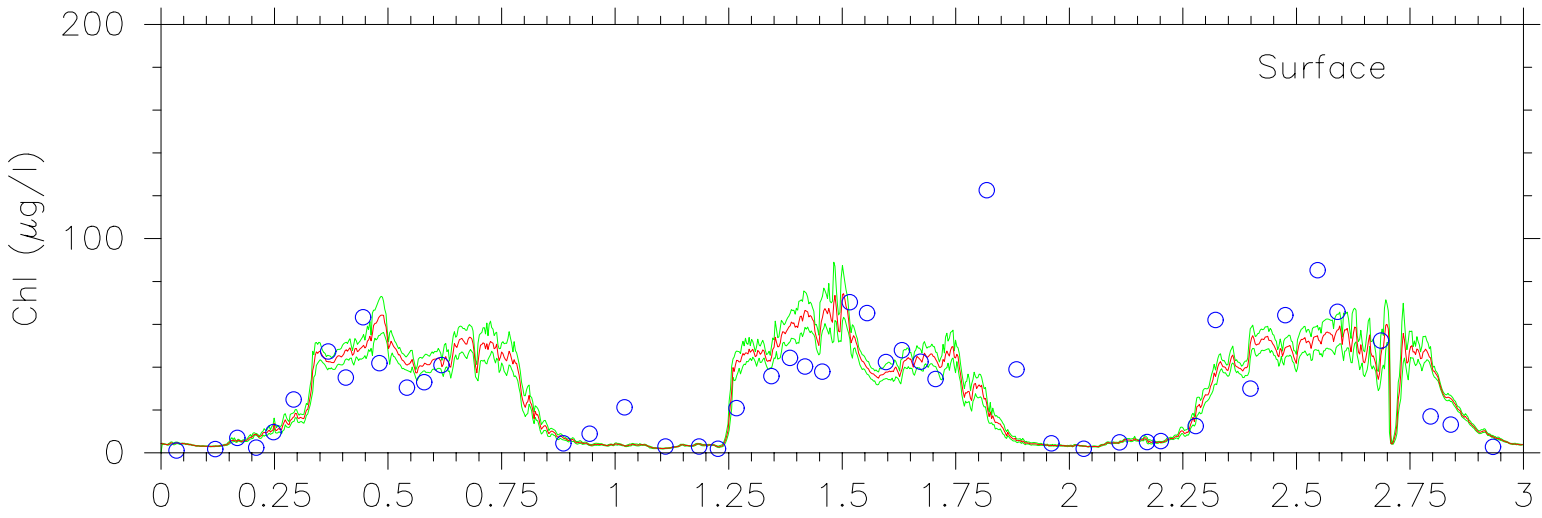


Years since January 1, 1997

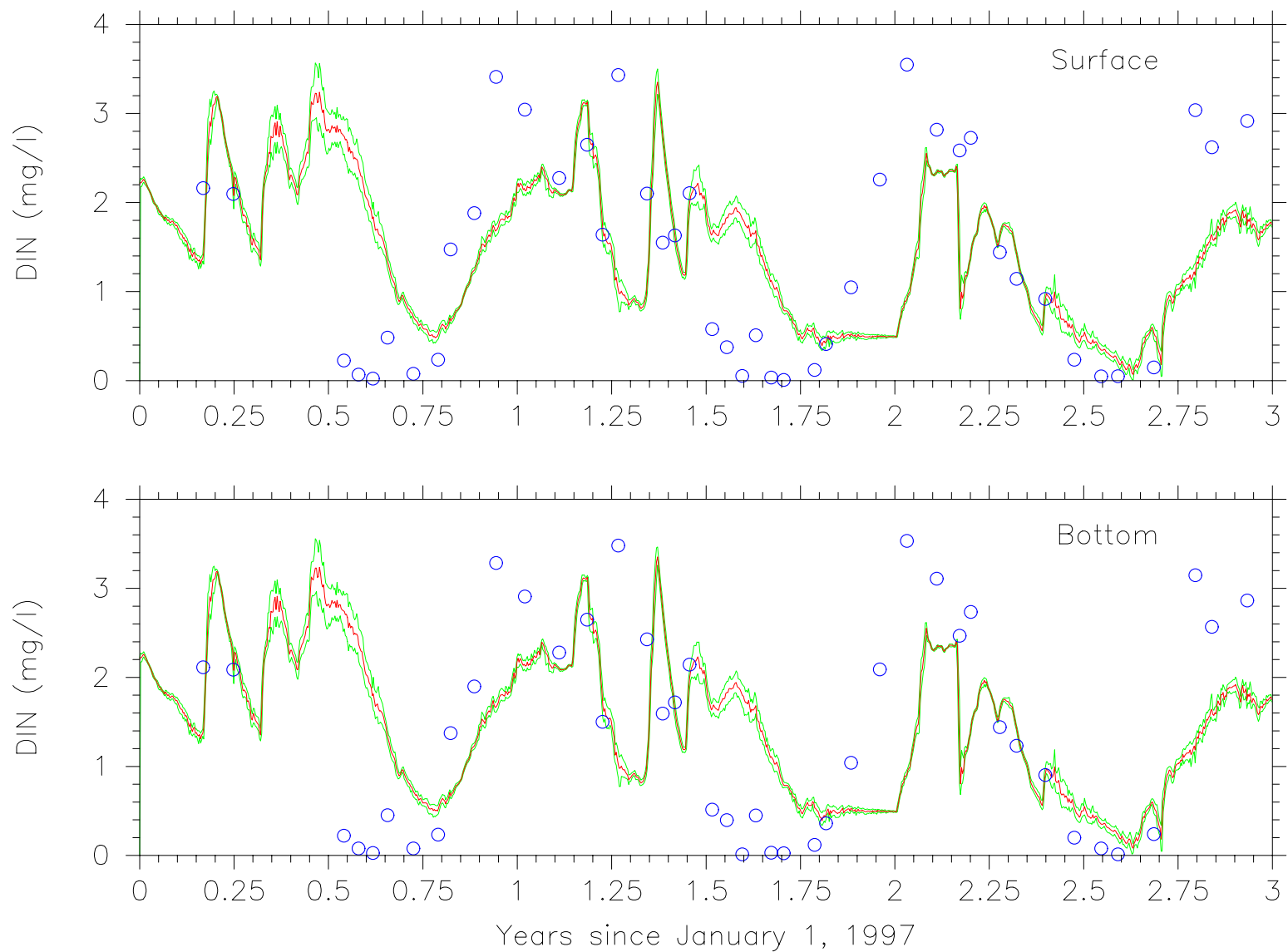
Dissolved Silica, EE1.1



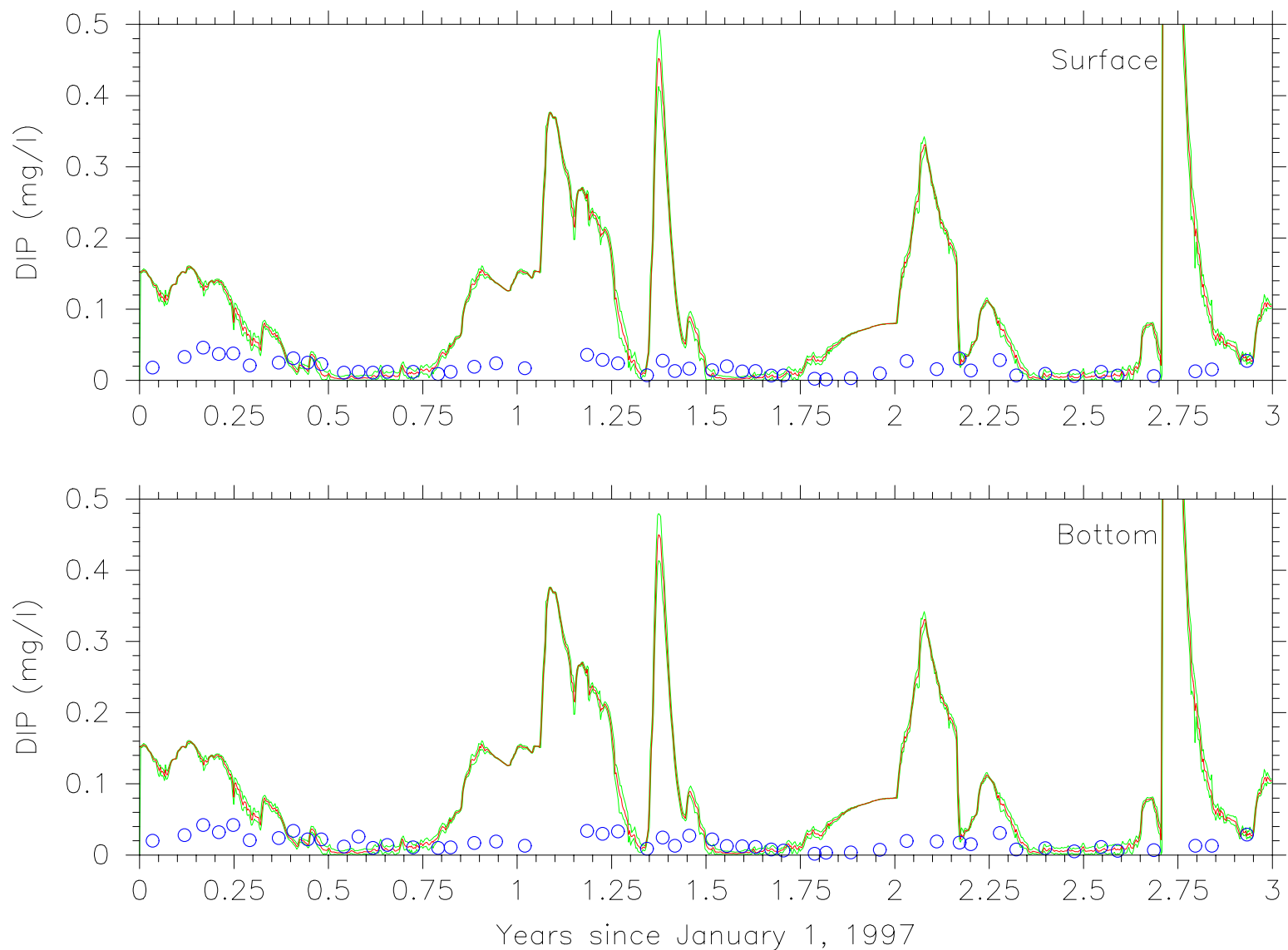
Chlorophyll,ET4.1



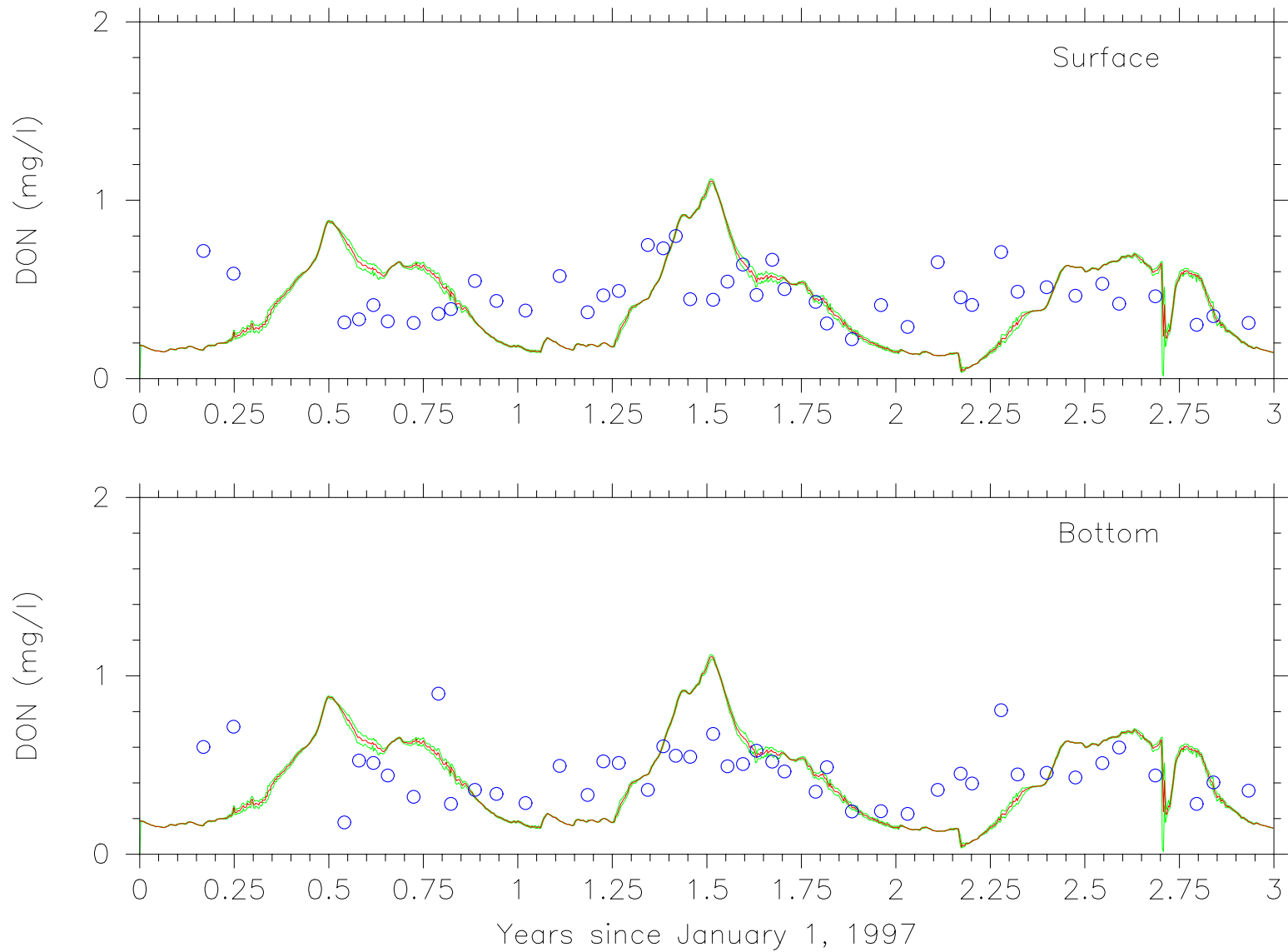
Dissolved Inorganic Nitrogen, ET4.1



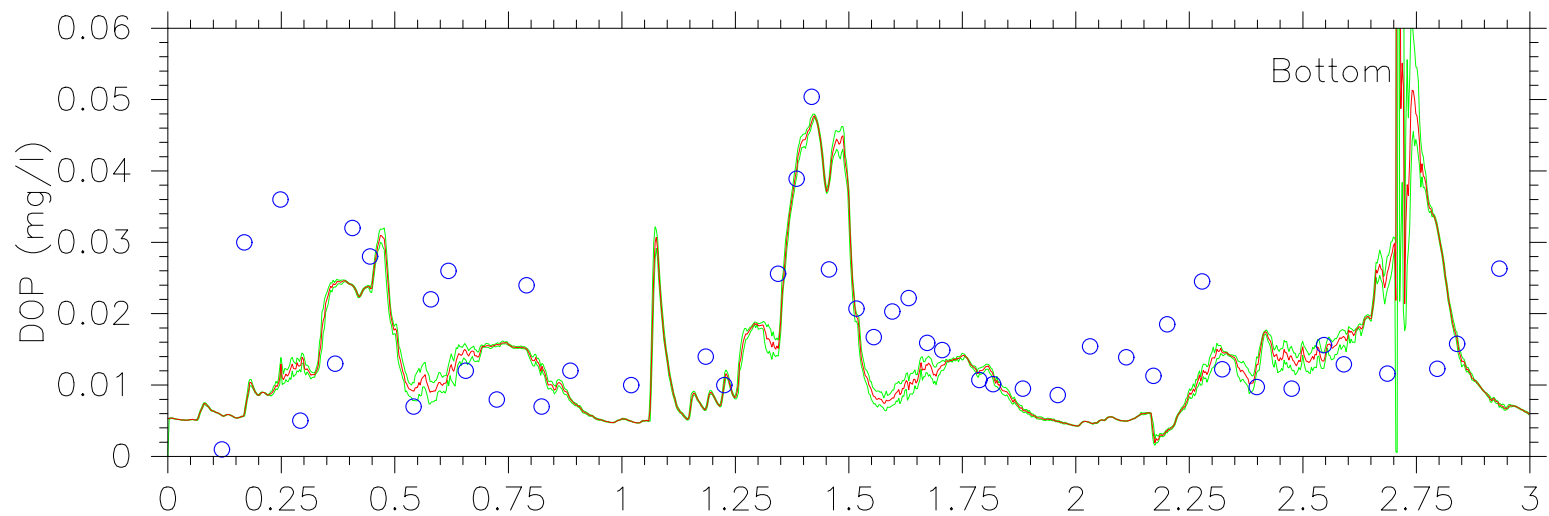
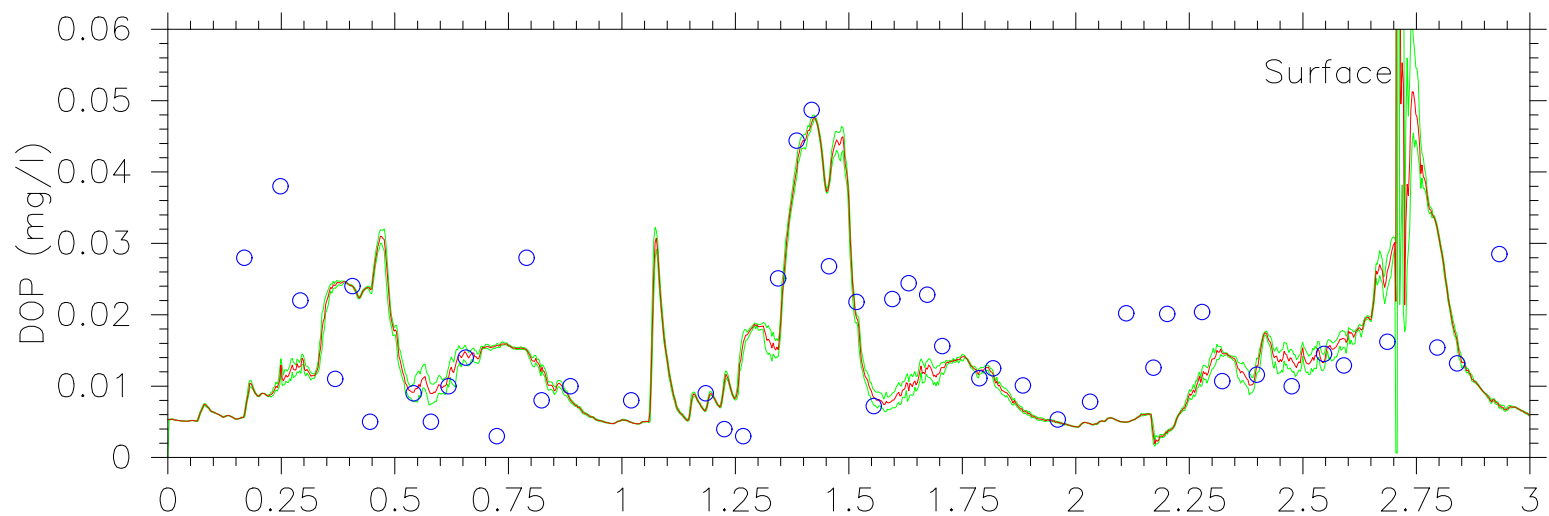
Dissolved Inorganic Phosphorus,ET4.1



Dissolved Organic Nitrogen,ET4.1

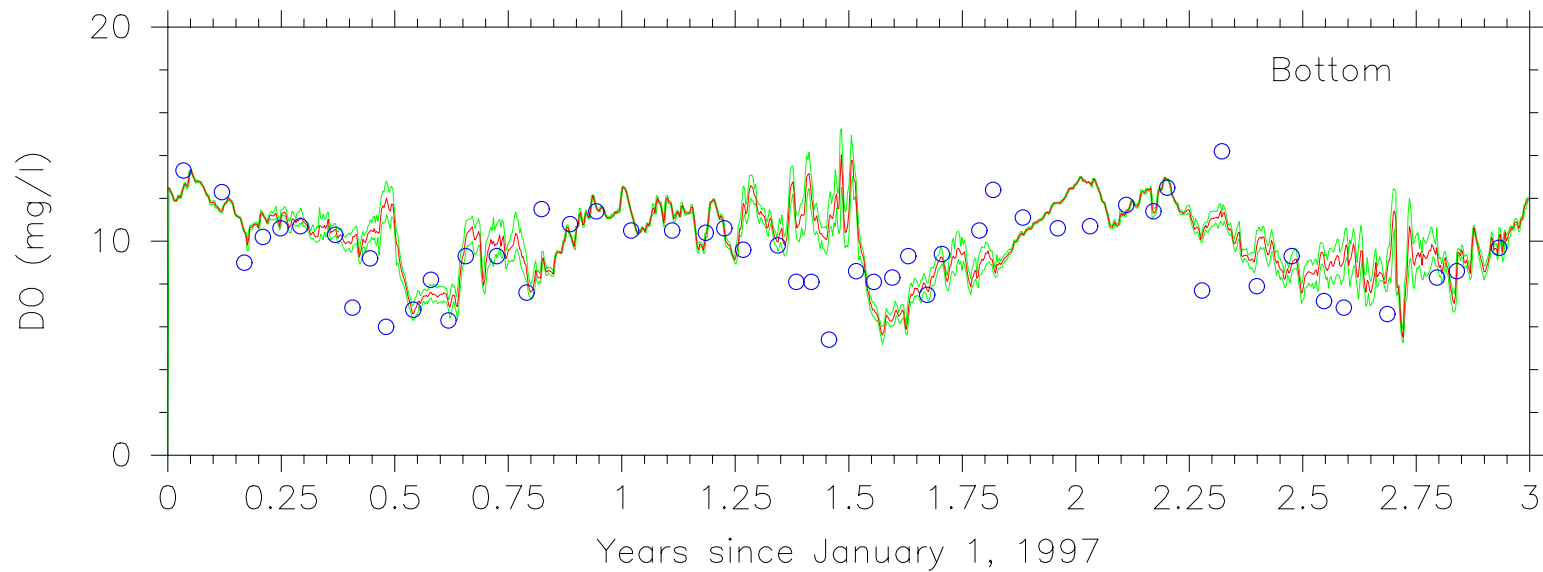
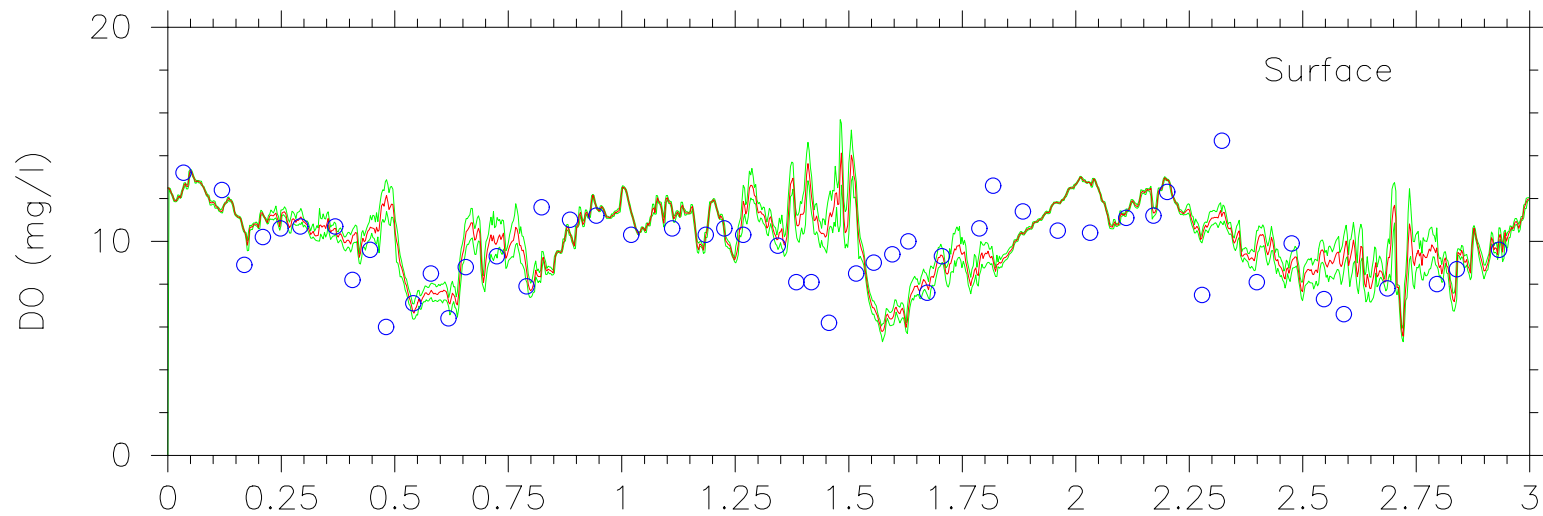


Dissolved Organic Phosphorus,ET4.1

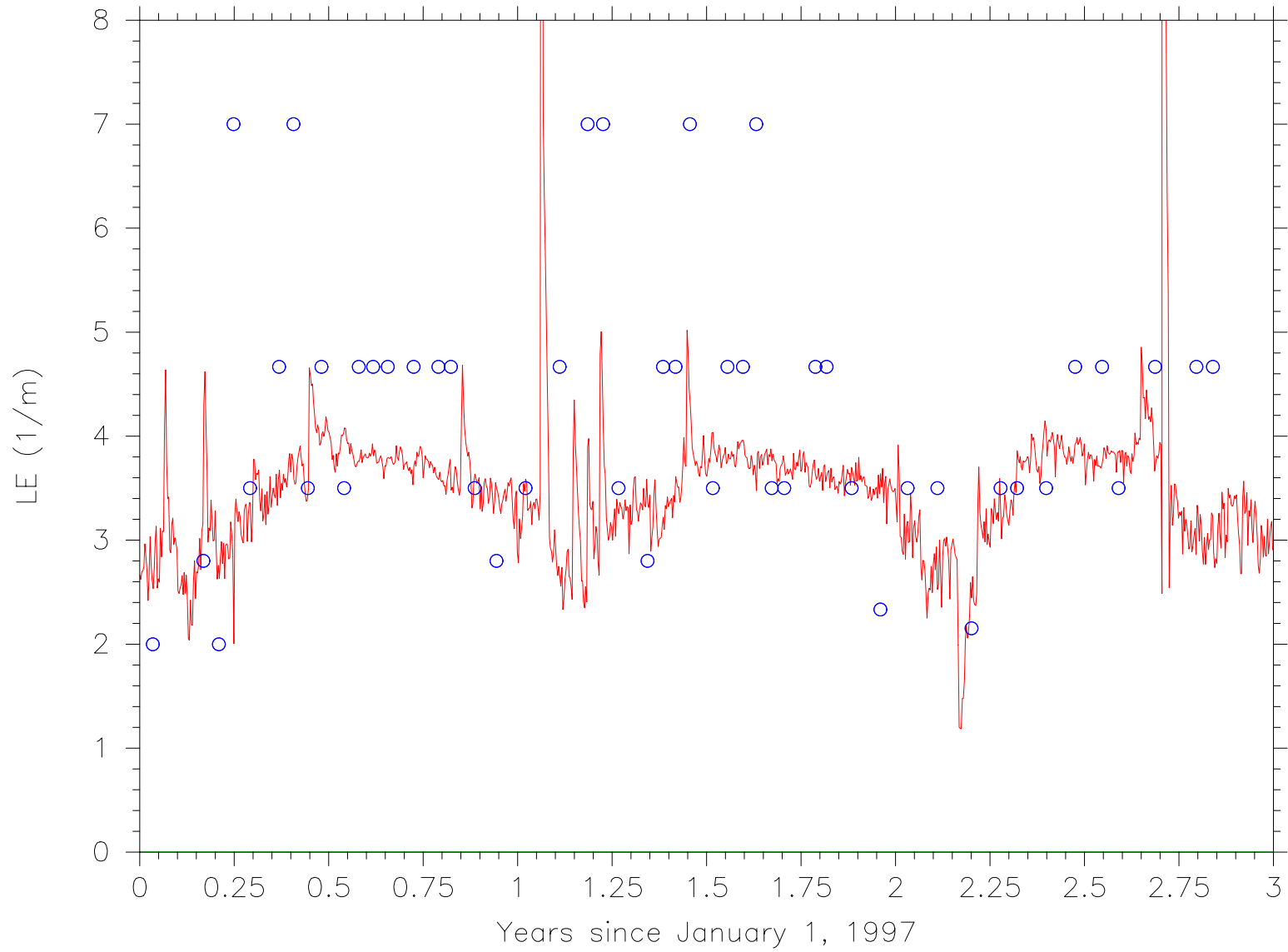


Years since January 1, 1997

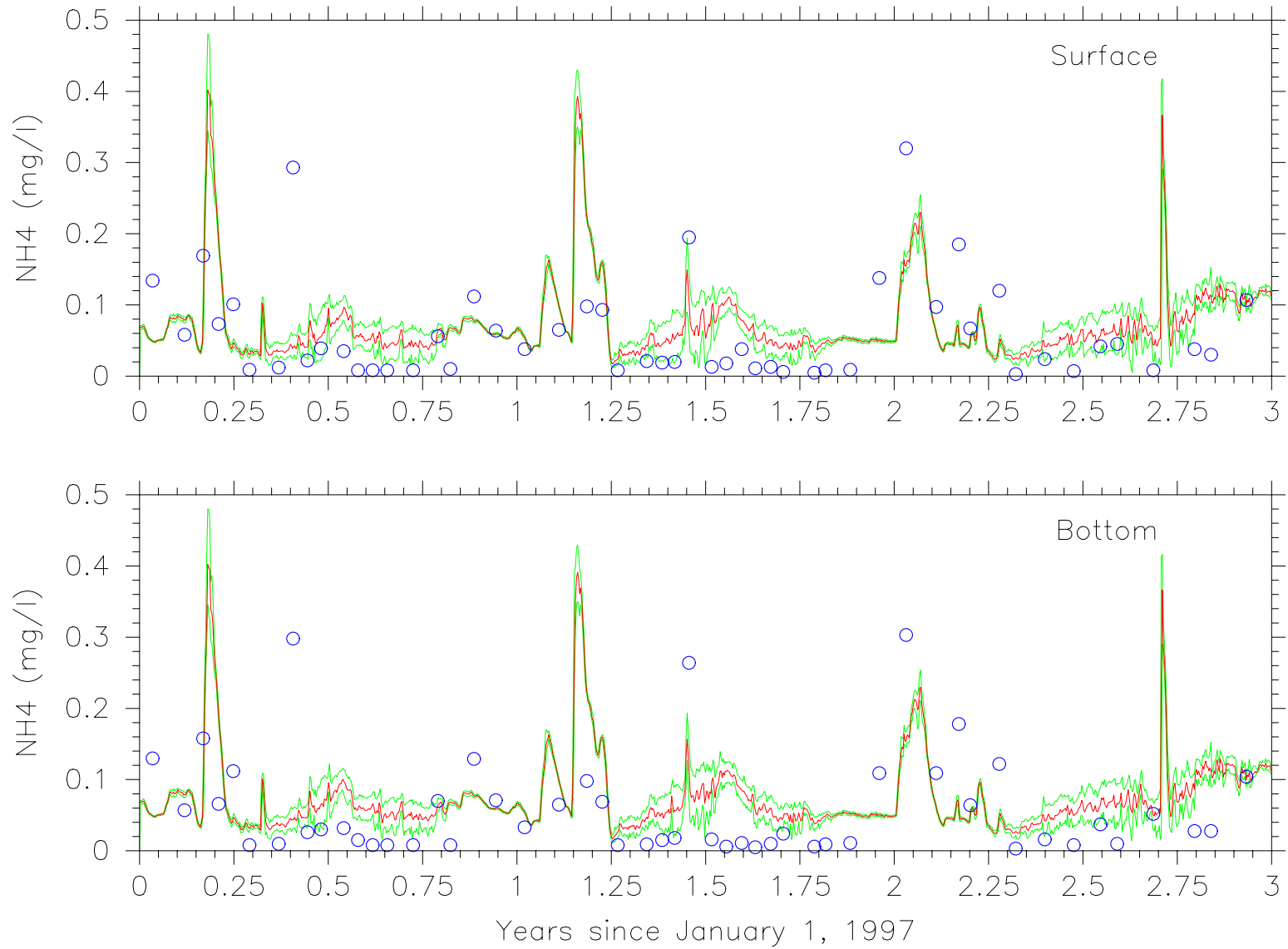
Dissolved Oxygen, ET4.1



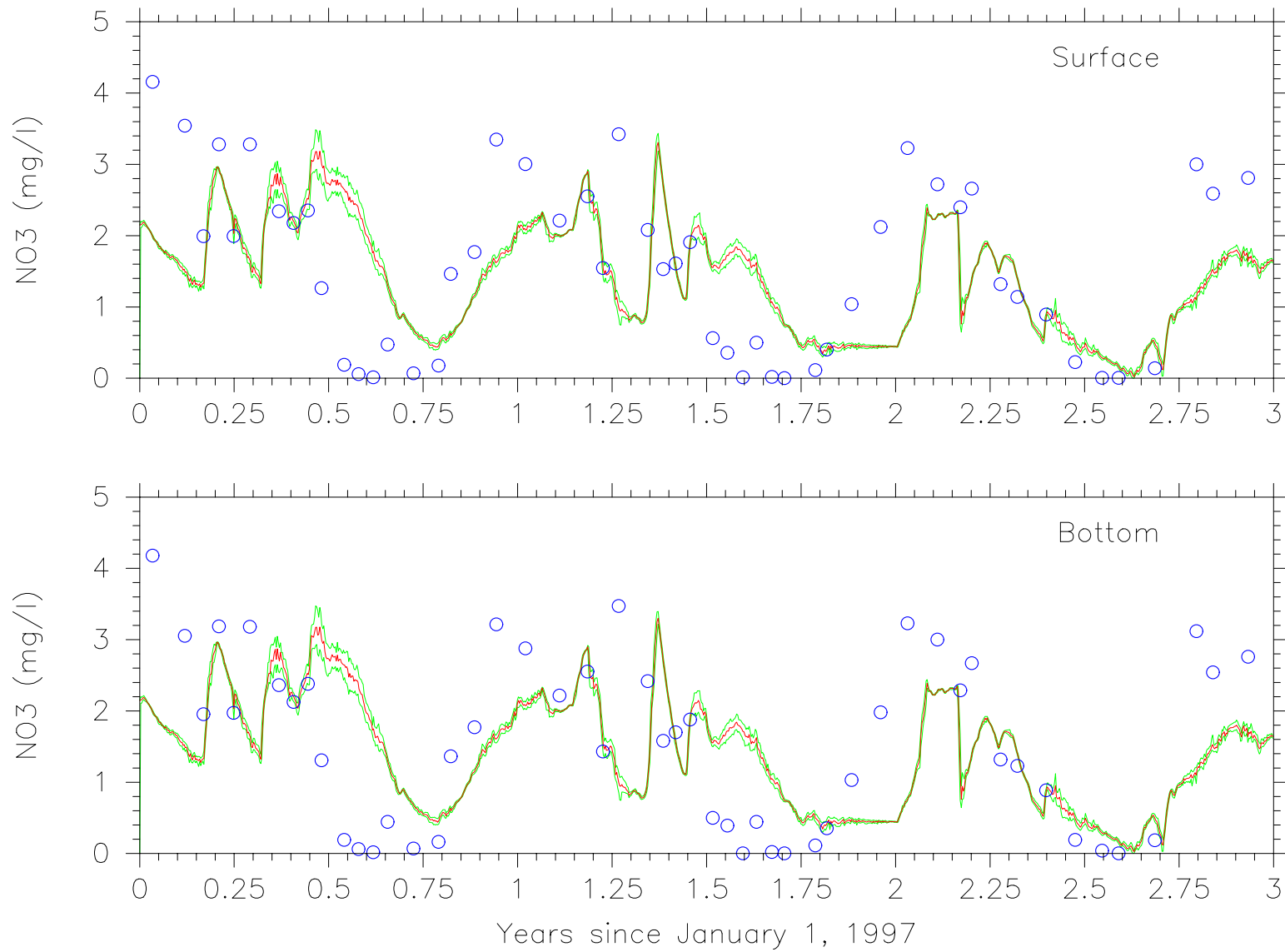
Light Extinction,ET4.1



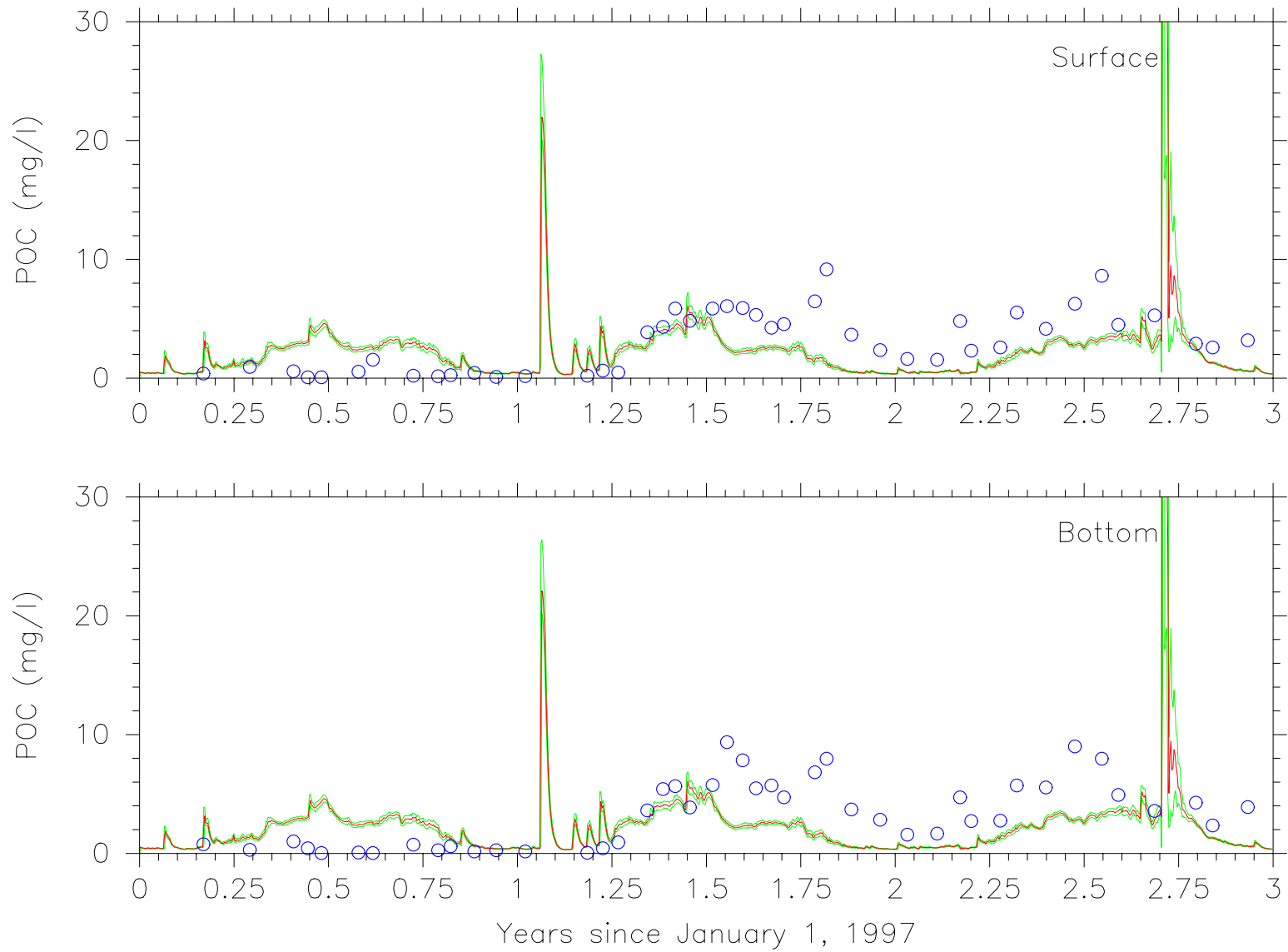
Ammonium,ET4.1



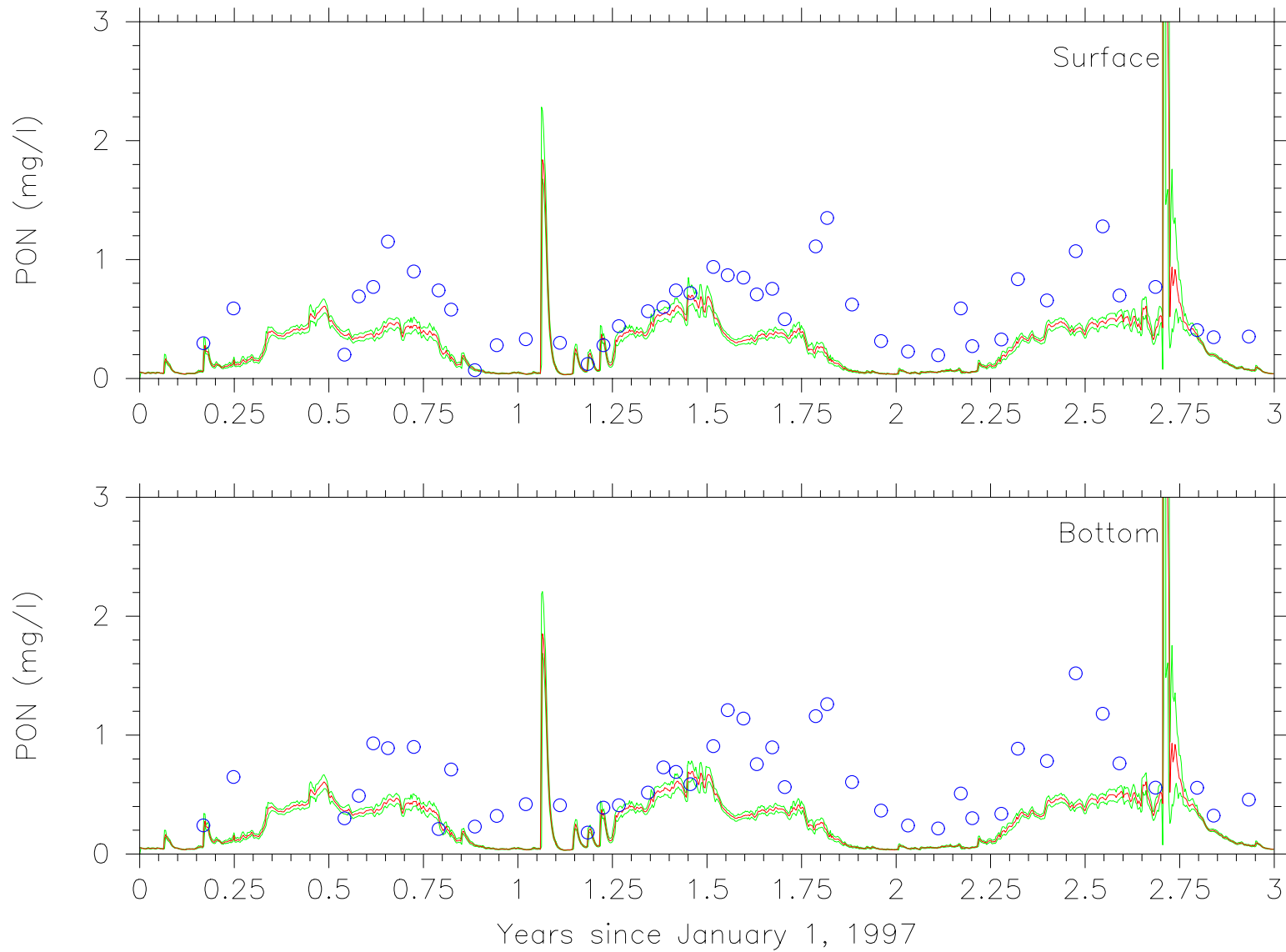
Nitrate,ET4.1



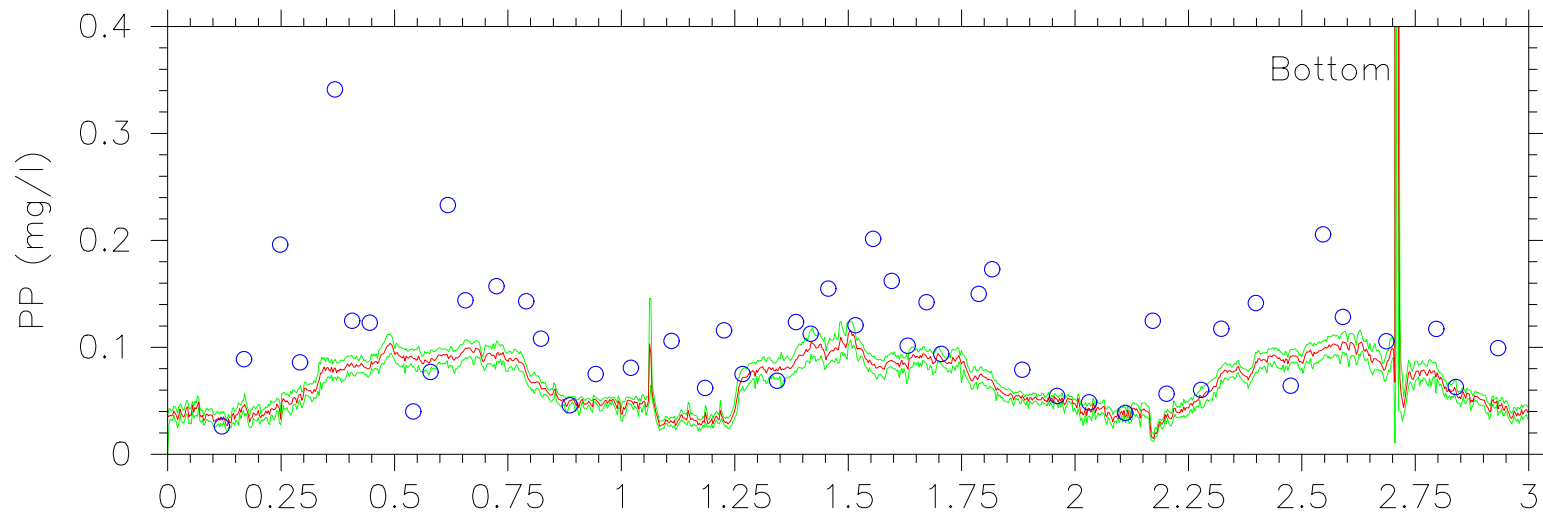
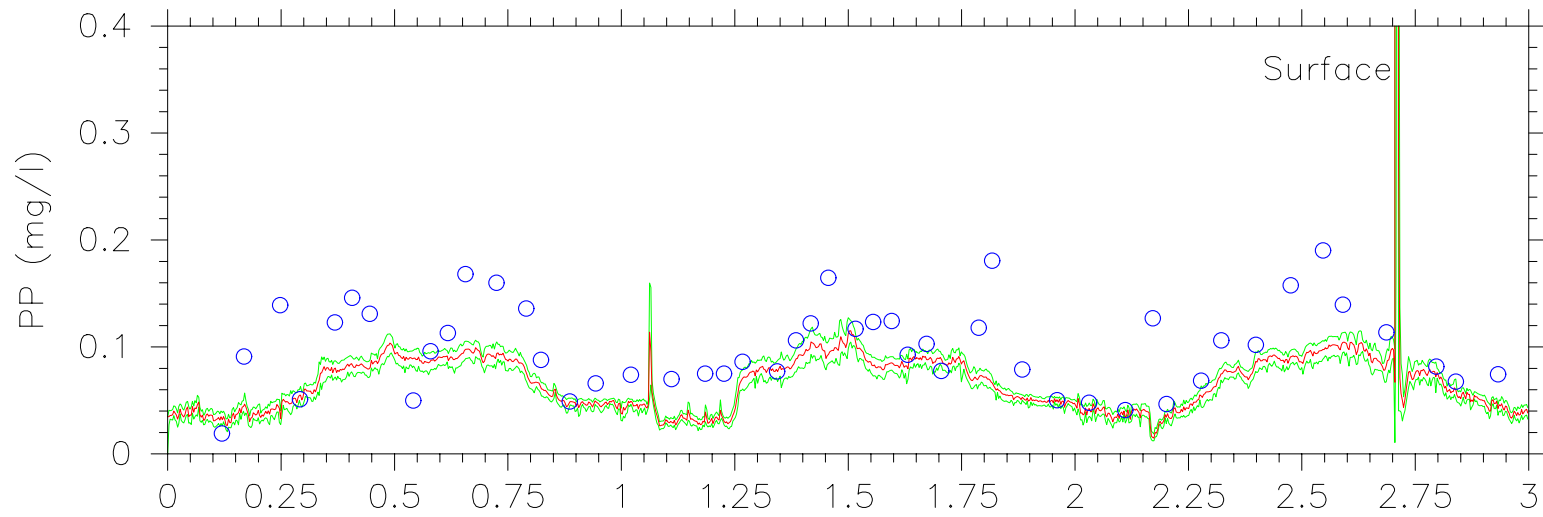
Particulate Organic Carbon,ET4.1



Particulate Organic Nitrogen,ET4.1

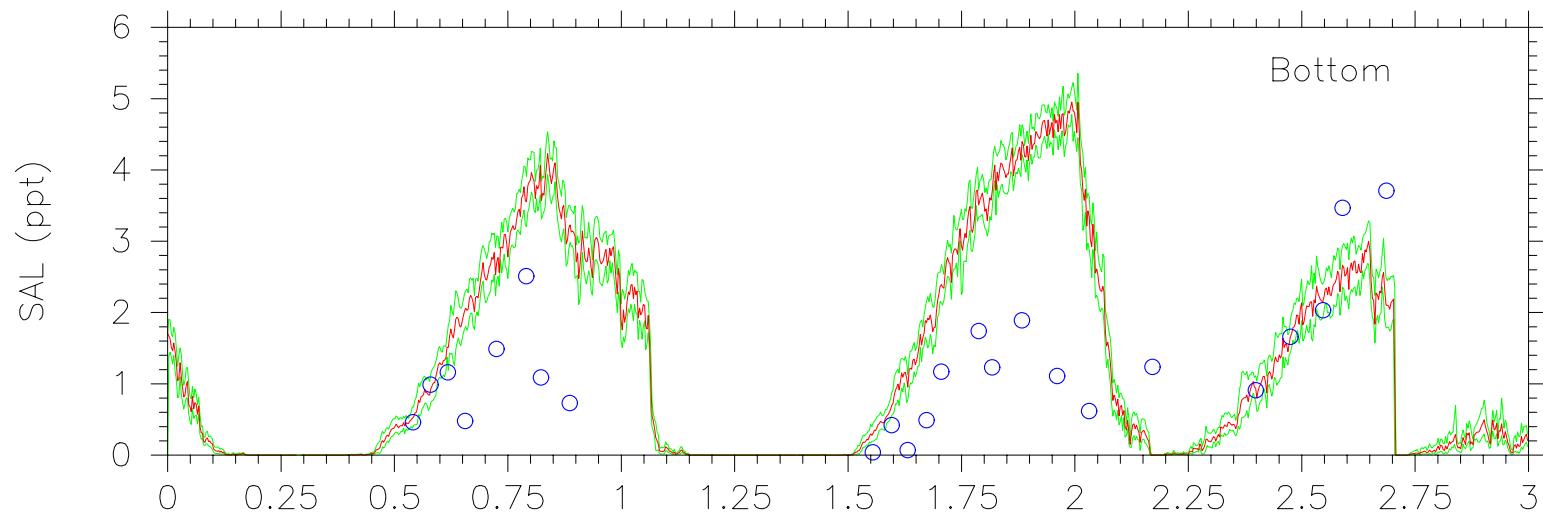
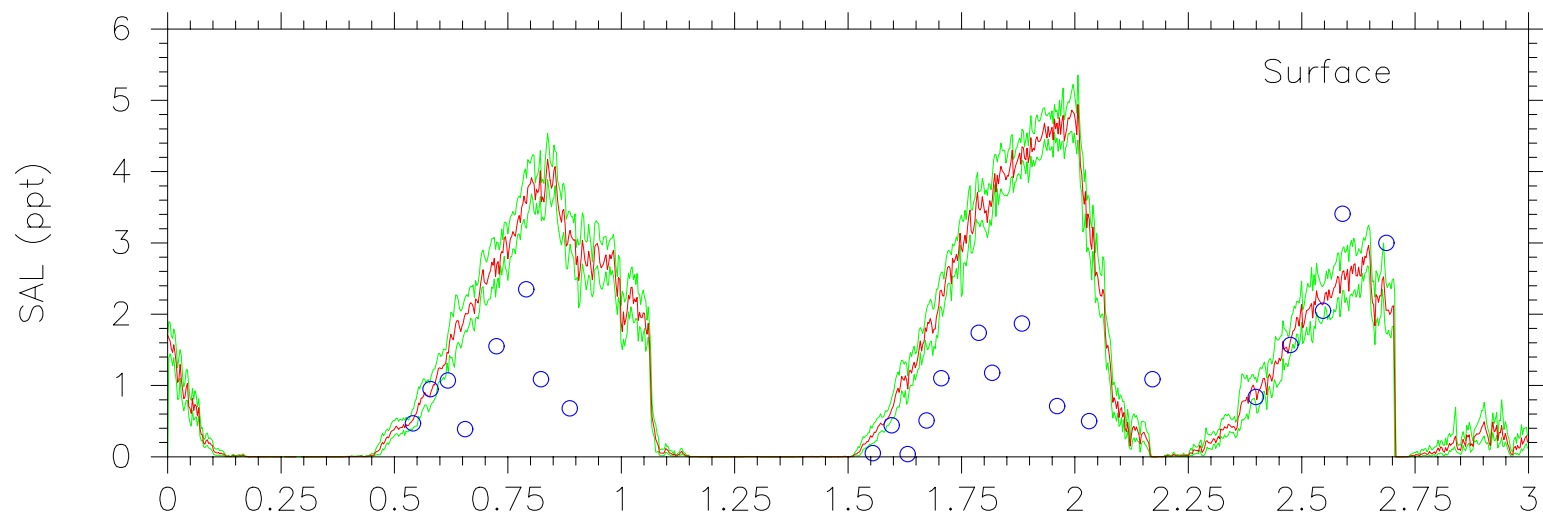


Particulate Phosphorus,ET4.1



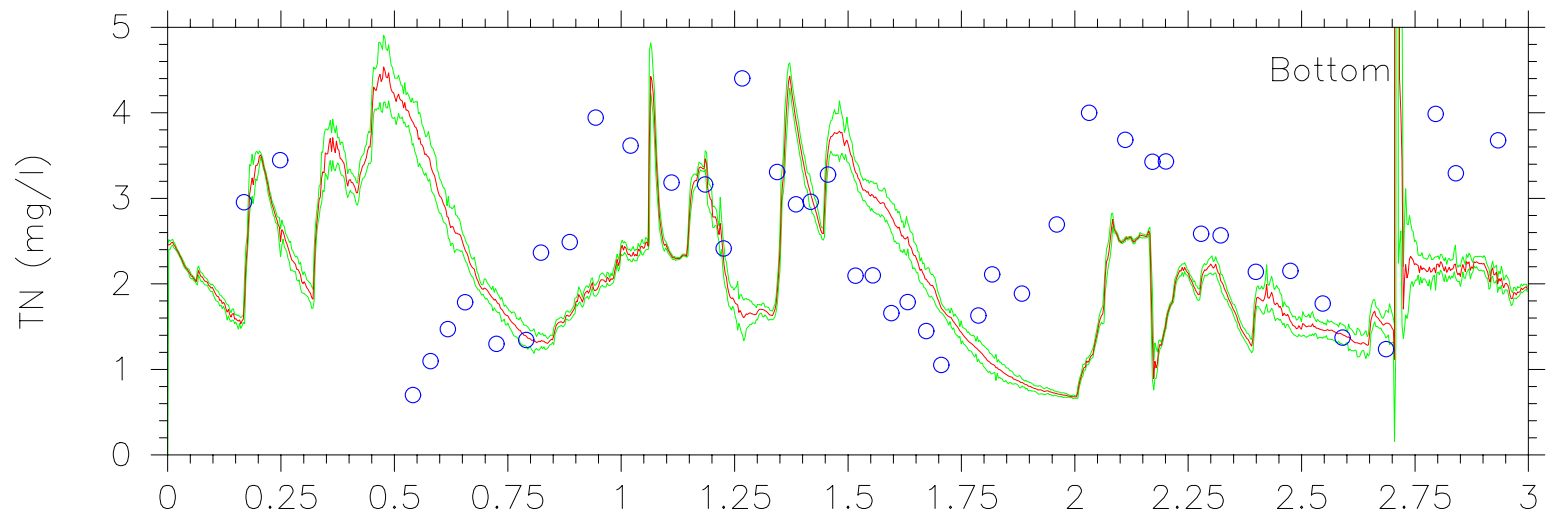
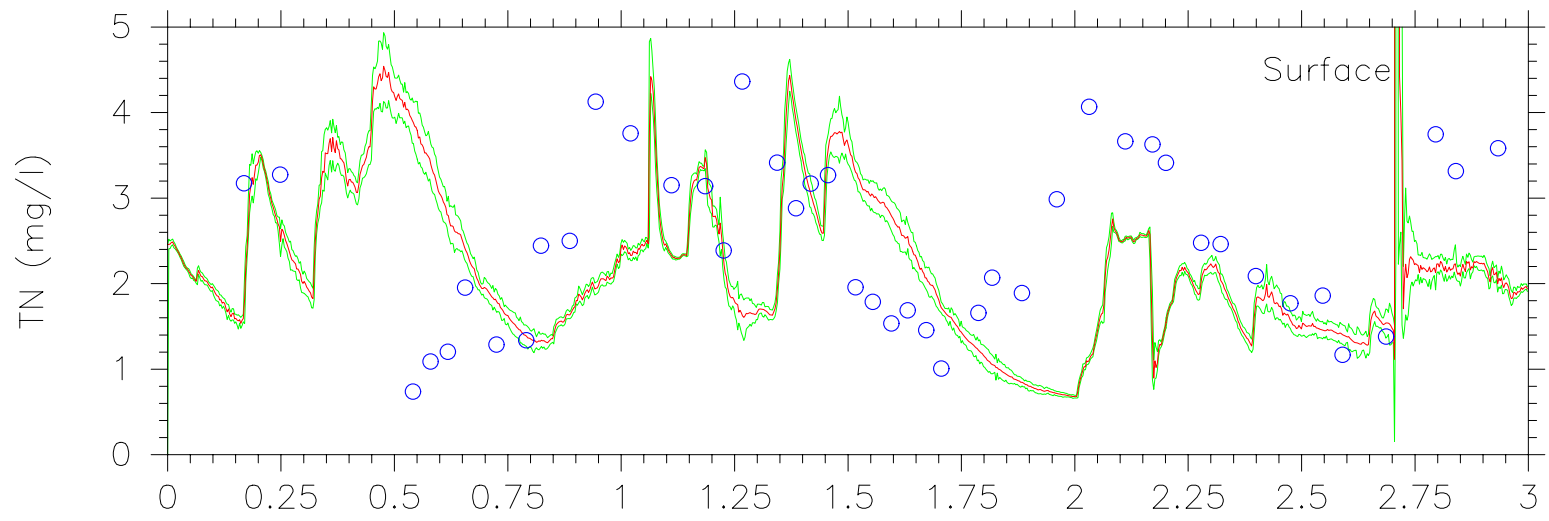
Years since January 1, 1997

Salinity,ET4.1



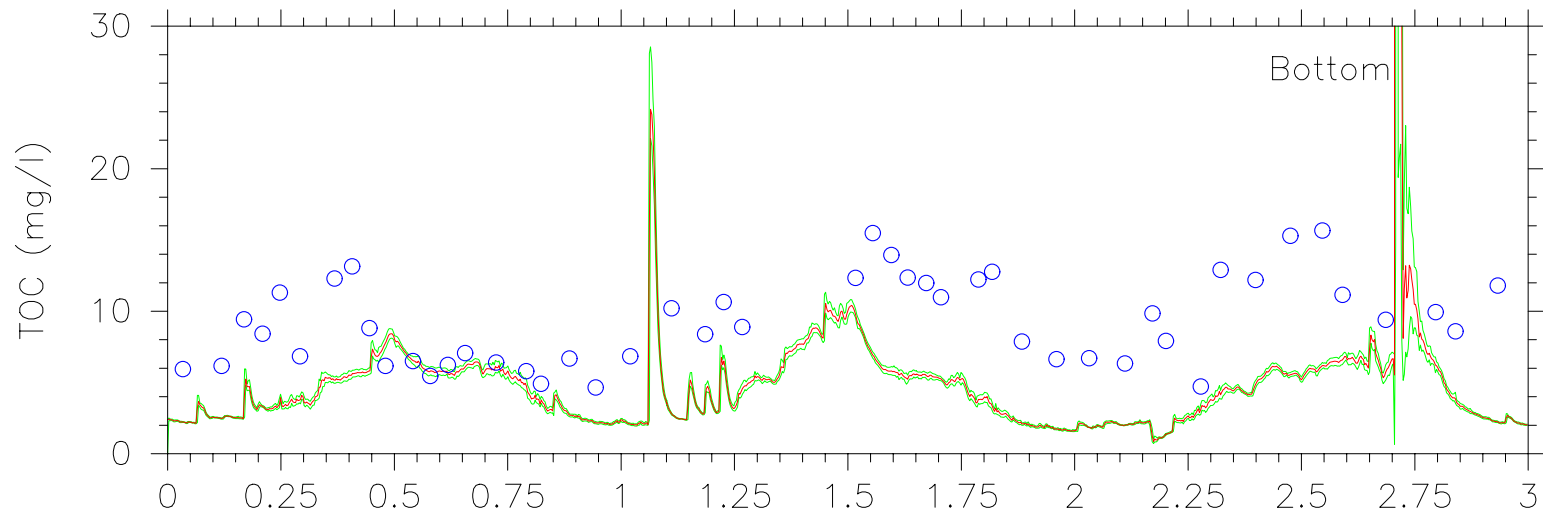
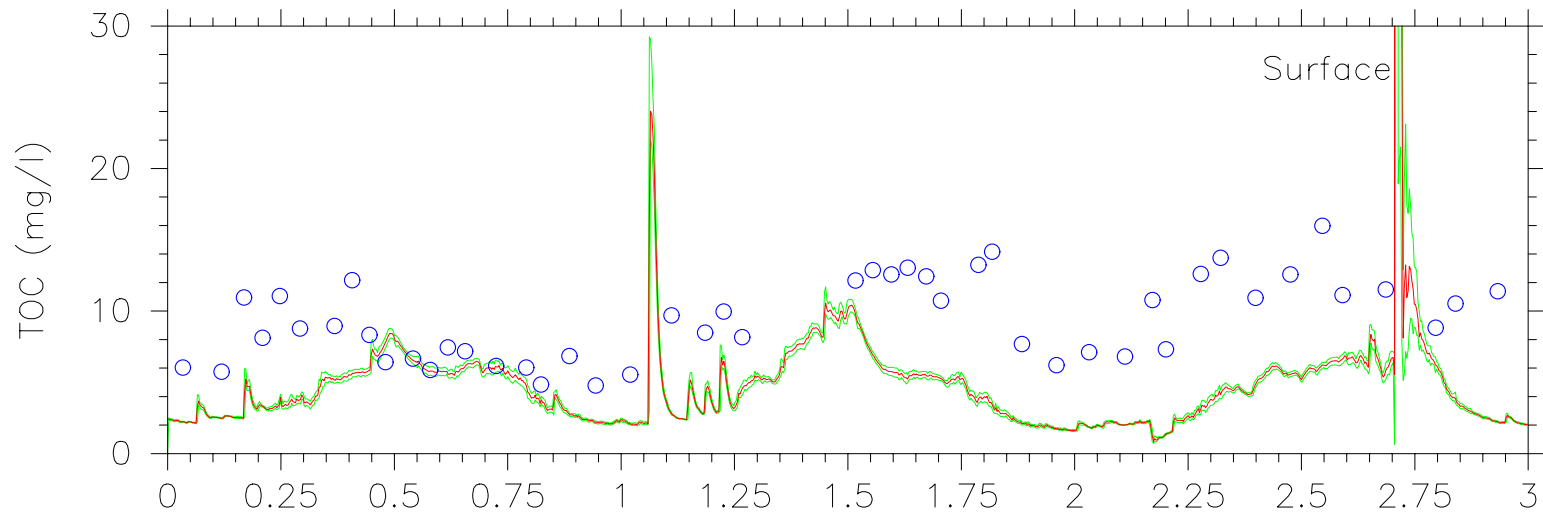
Years since January 1, 1997

Total Nitrogen, ET4.1



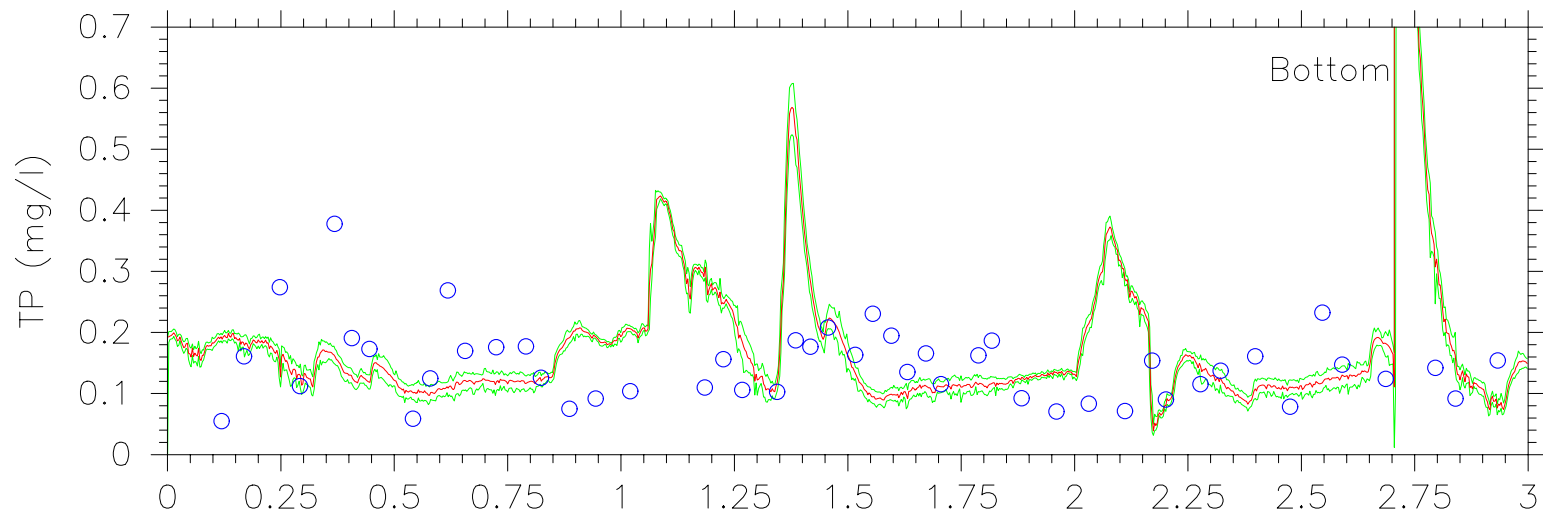
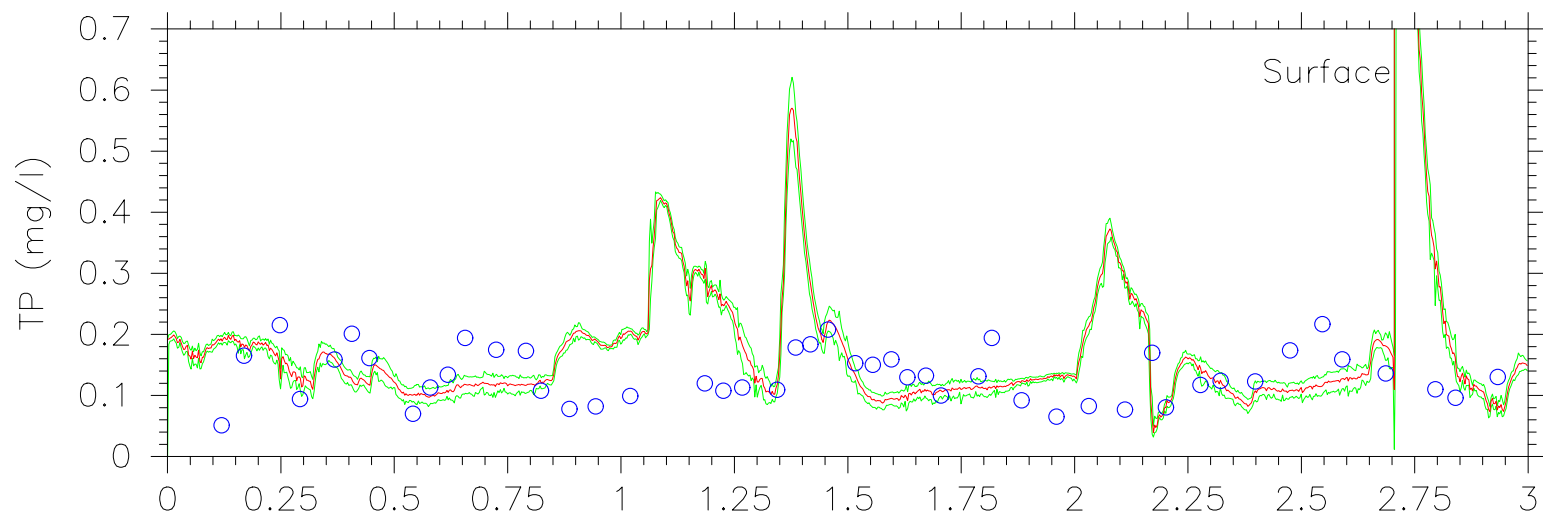
Years since January 1, 1997

Total Organic Carbon,ET4.1



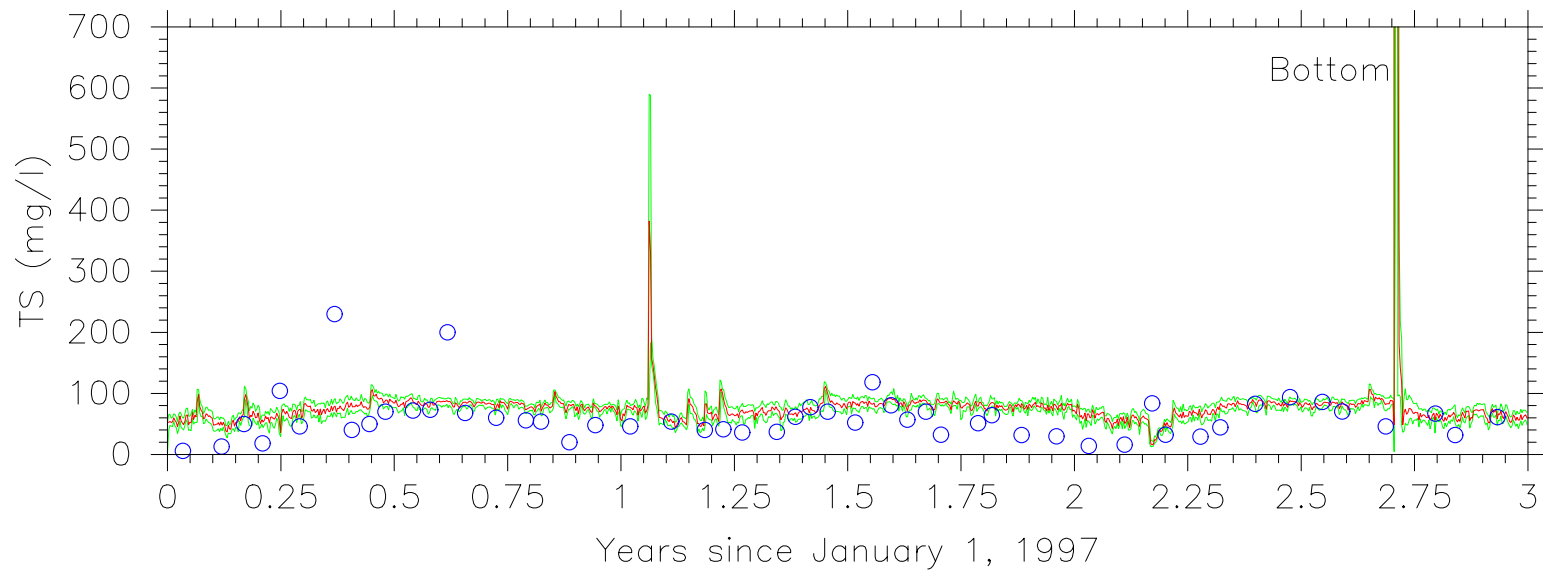
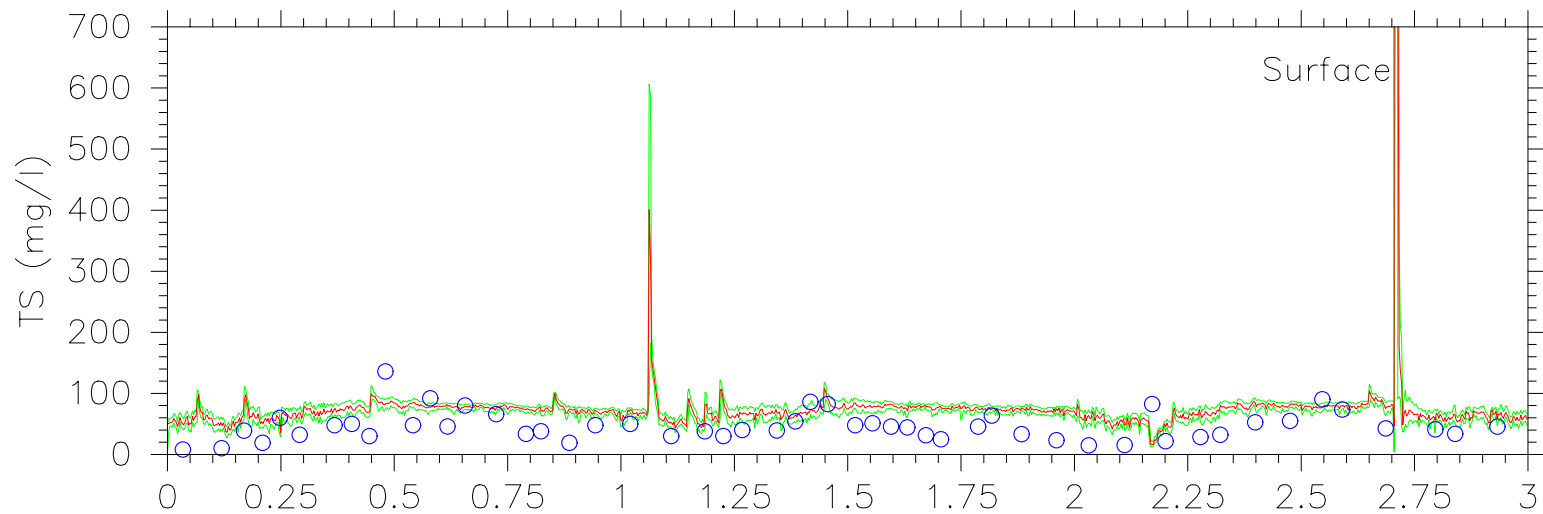
Years since January 1, 1997

Total Phosphorus,ET4.1

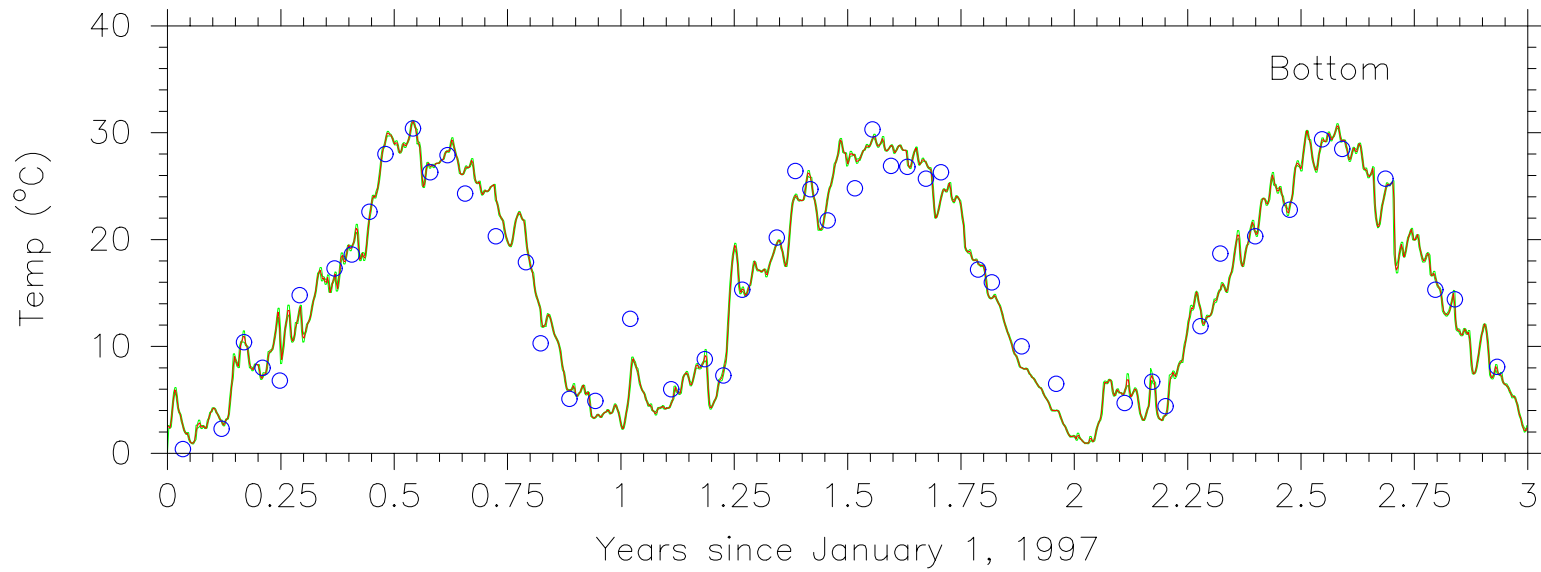
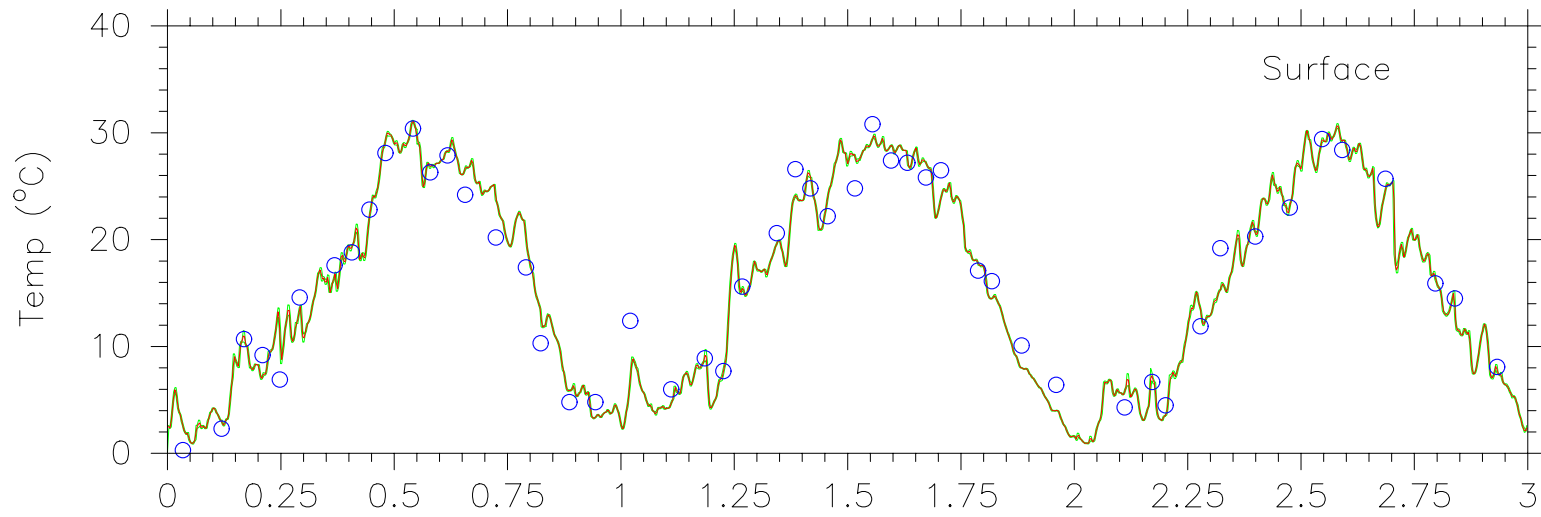


Years since January 1, 1997

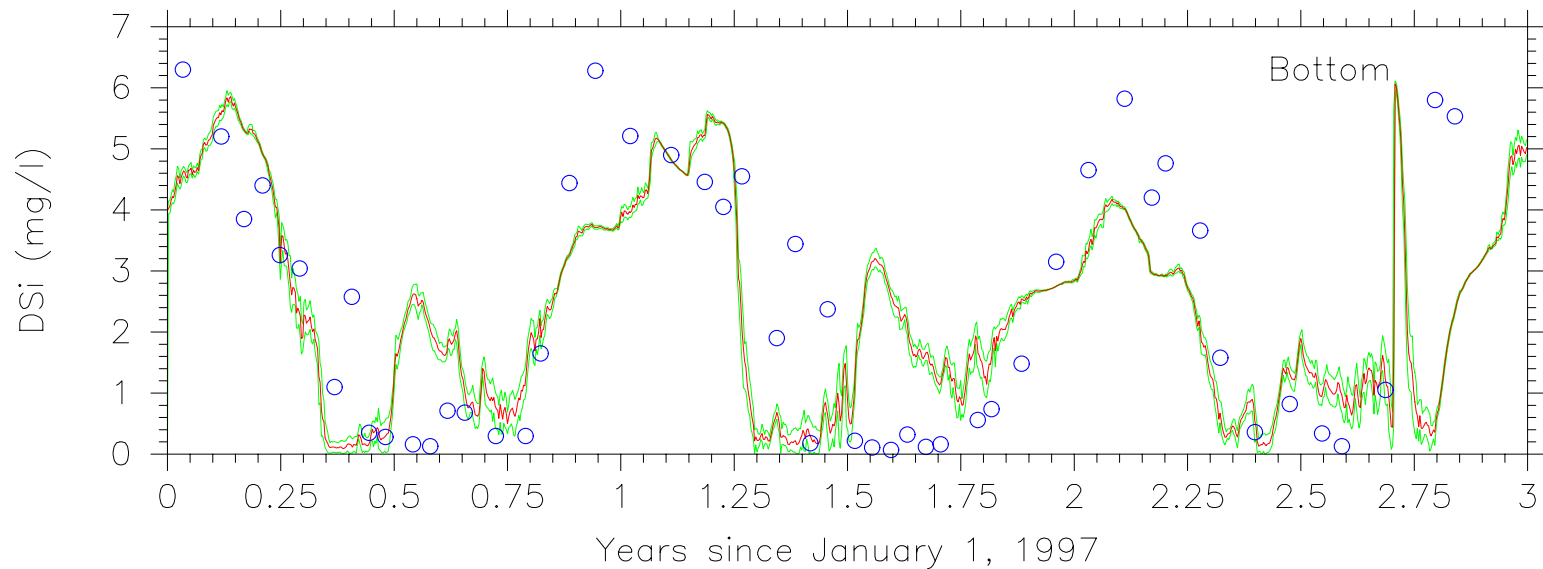
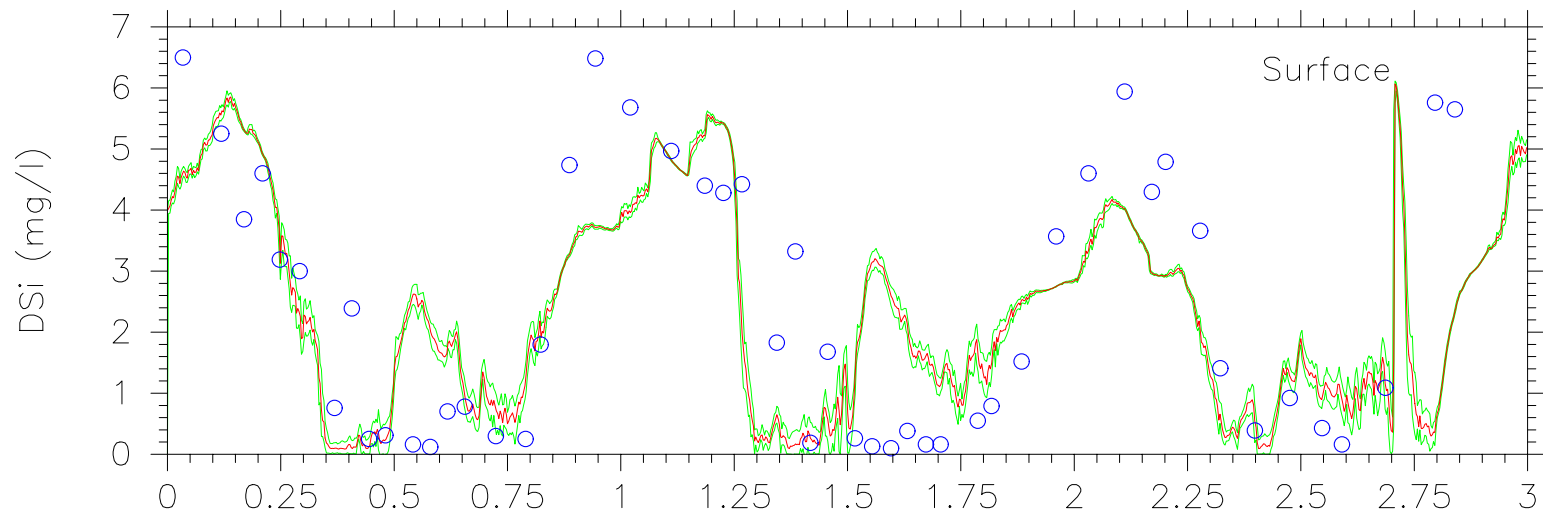
Total Solids,ET4.1



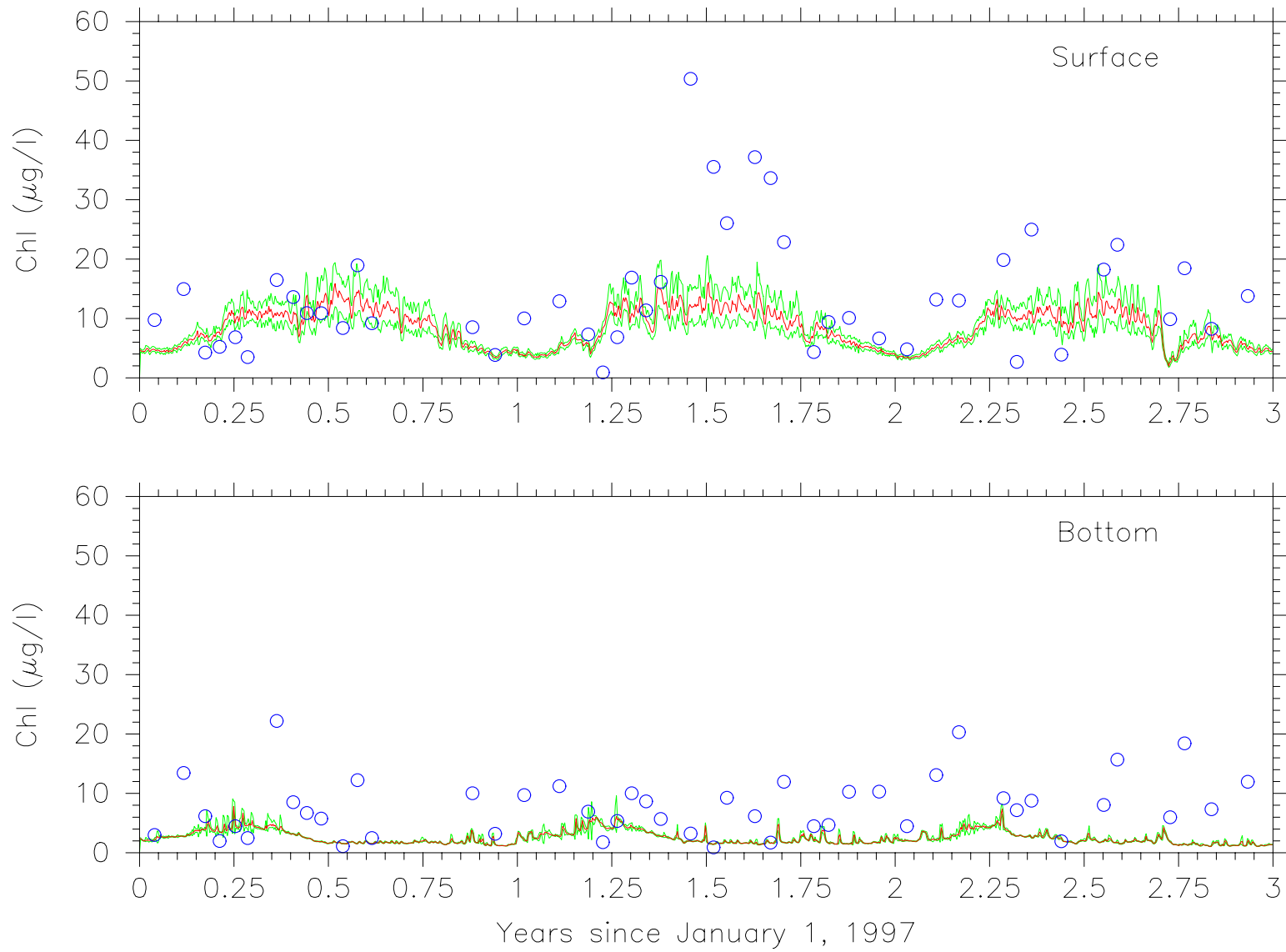
Temperature,ET4.1



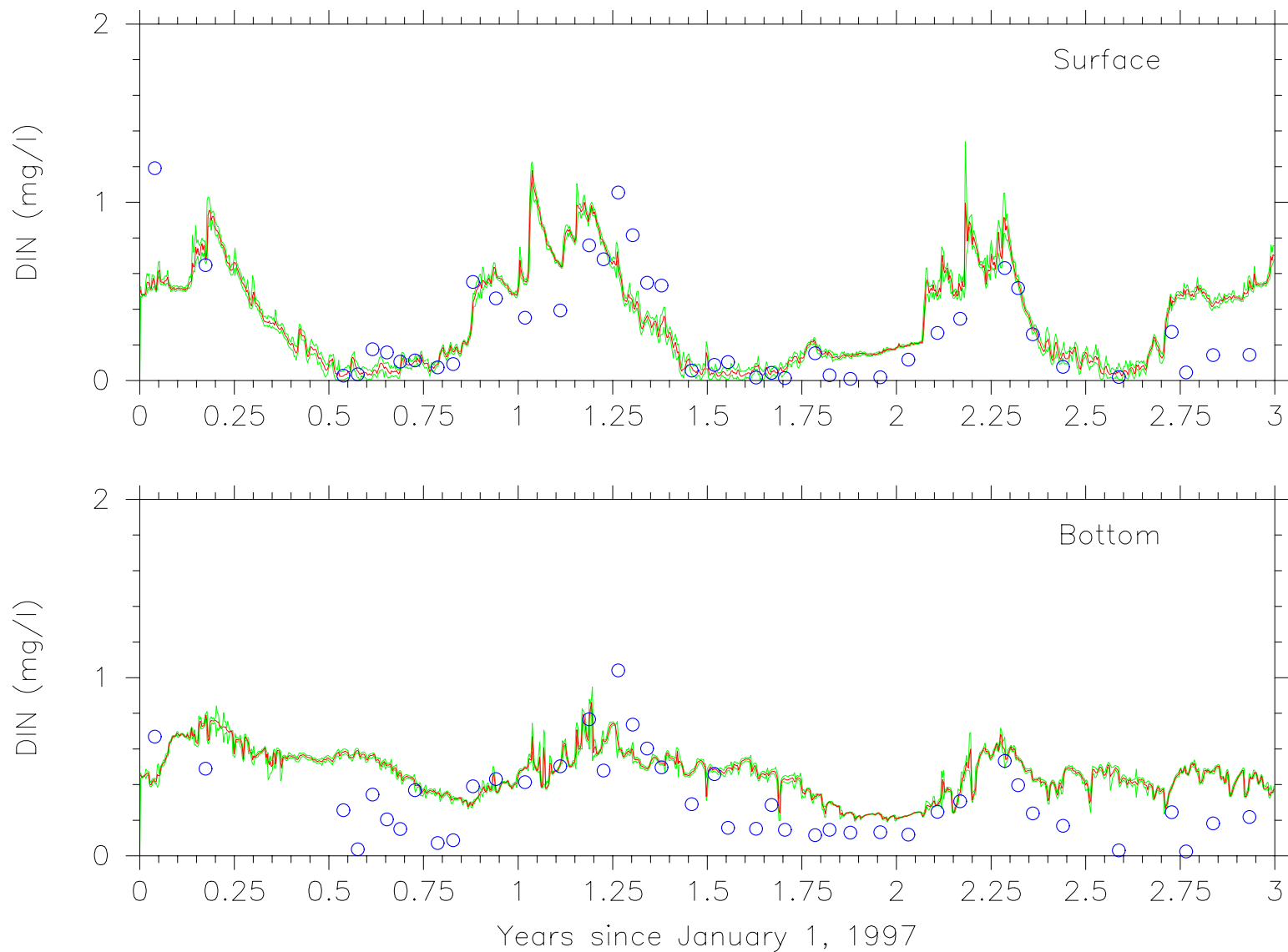
Dissolved Silica, ET4.1



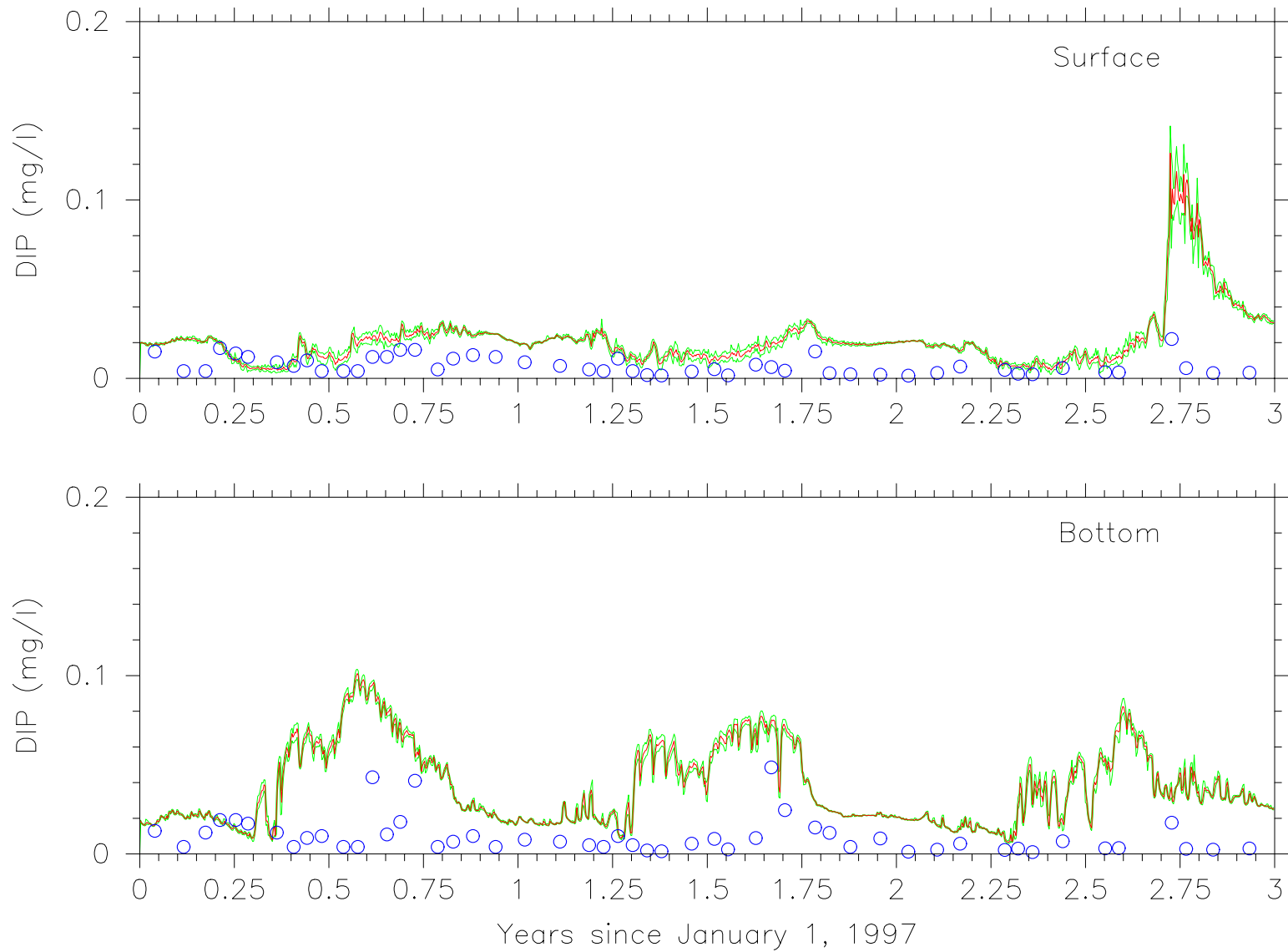
Chlorophyll,ET4.2



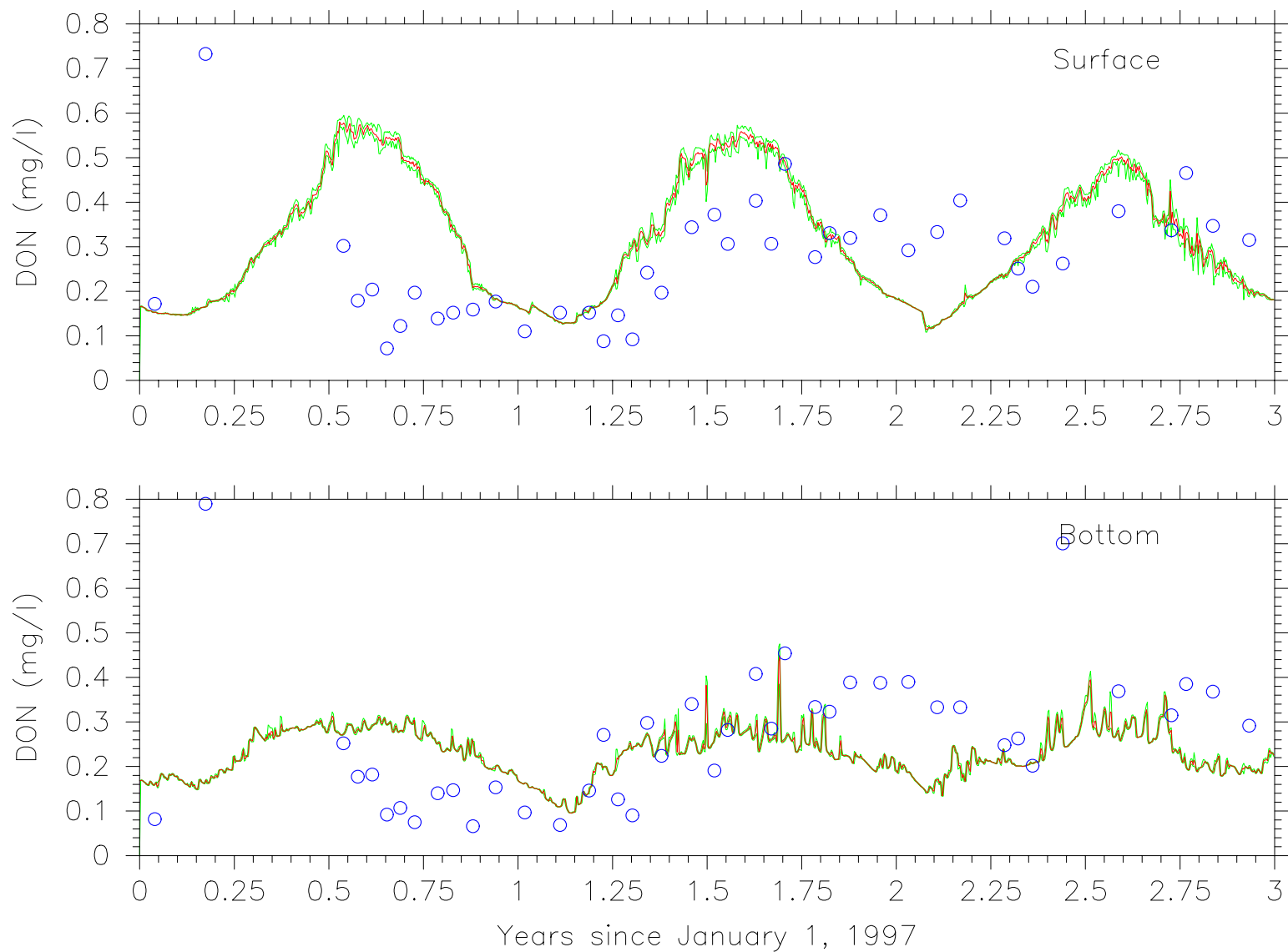
Dissolved Inorganic Nitrogen, ET4.2



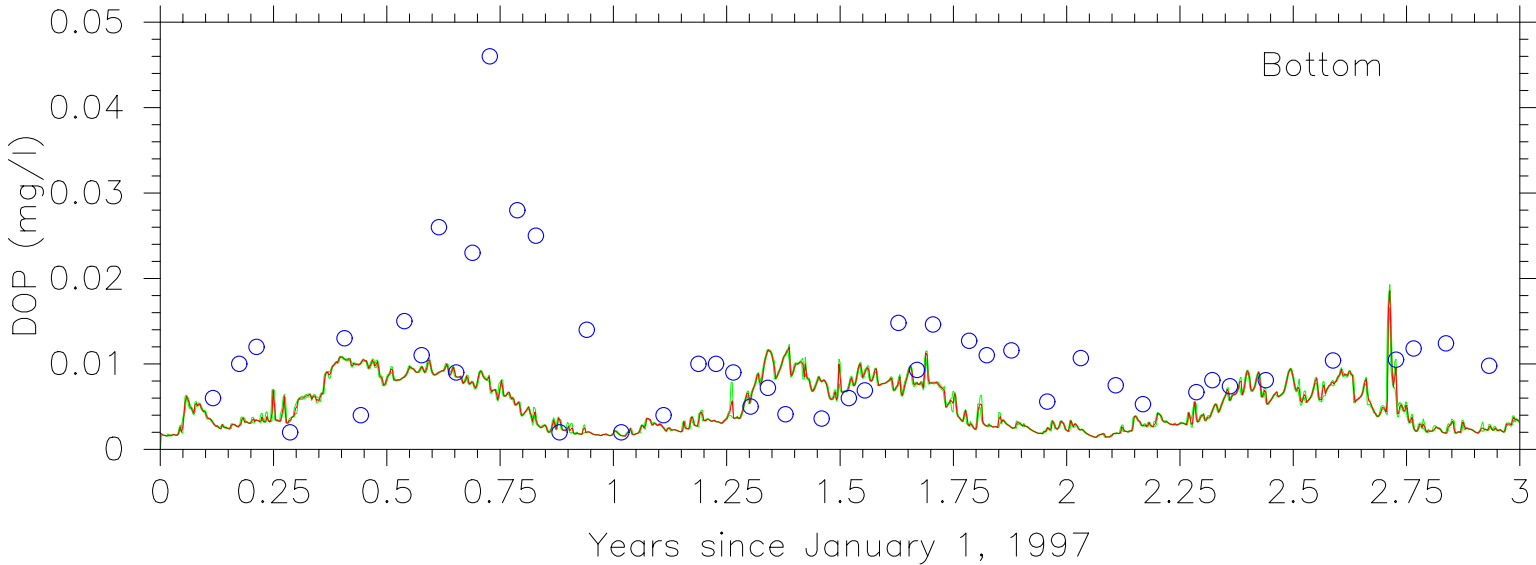
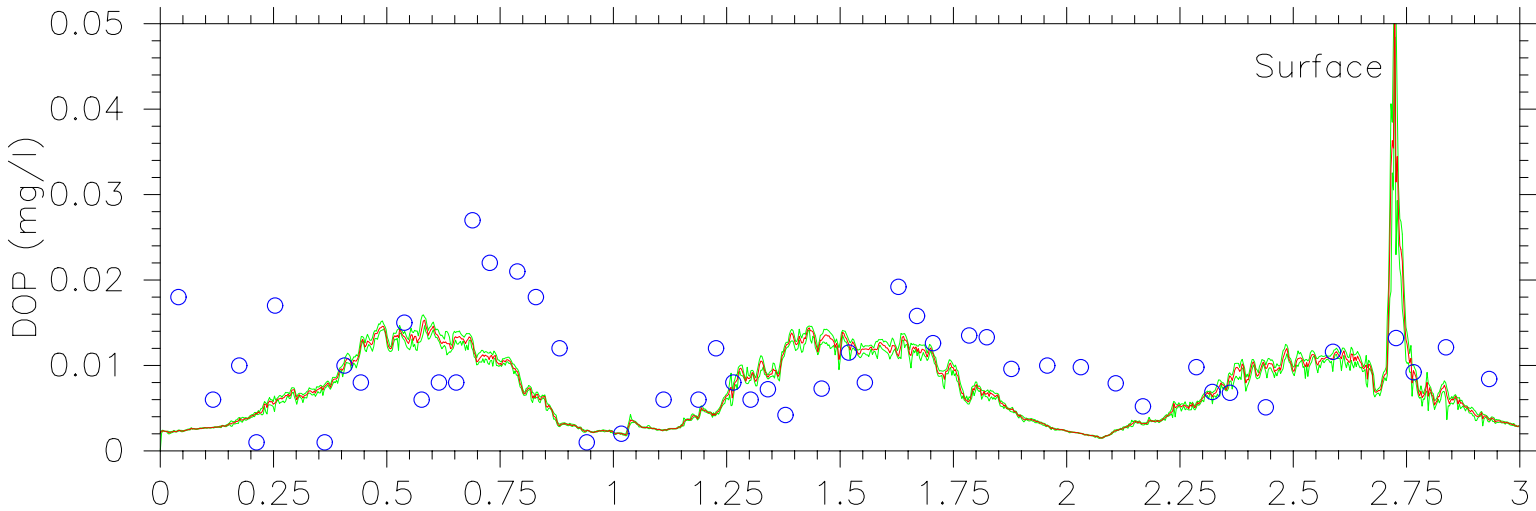
Dissolved Inorganic Phosphorus, ET4.2



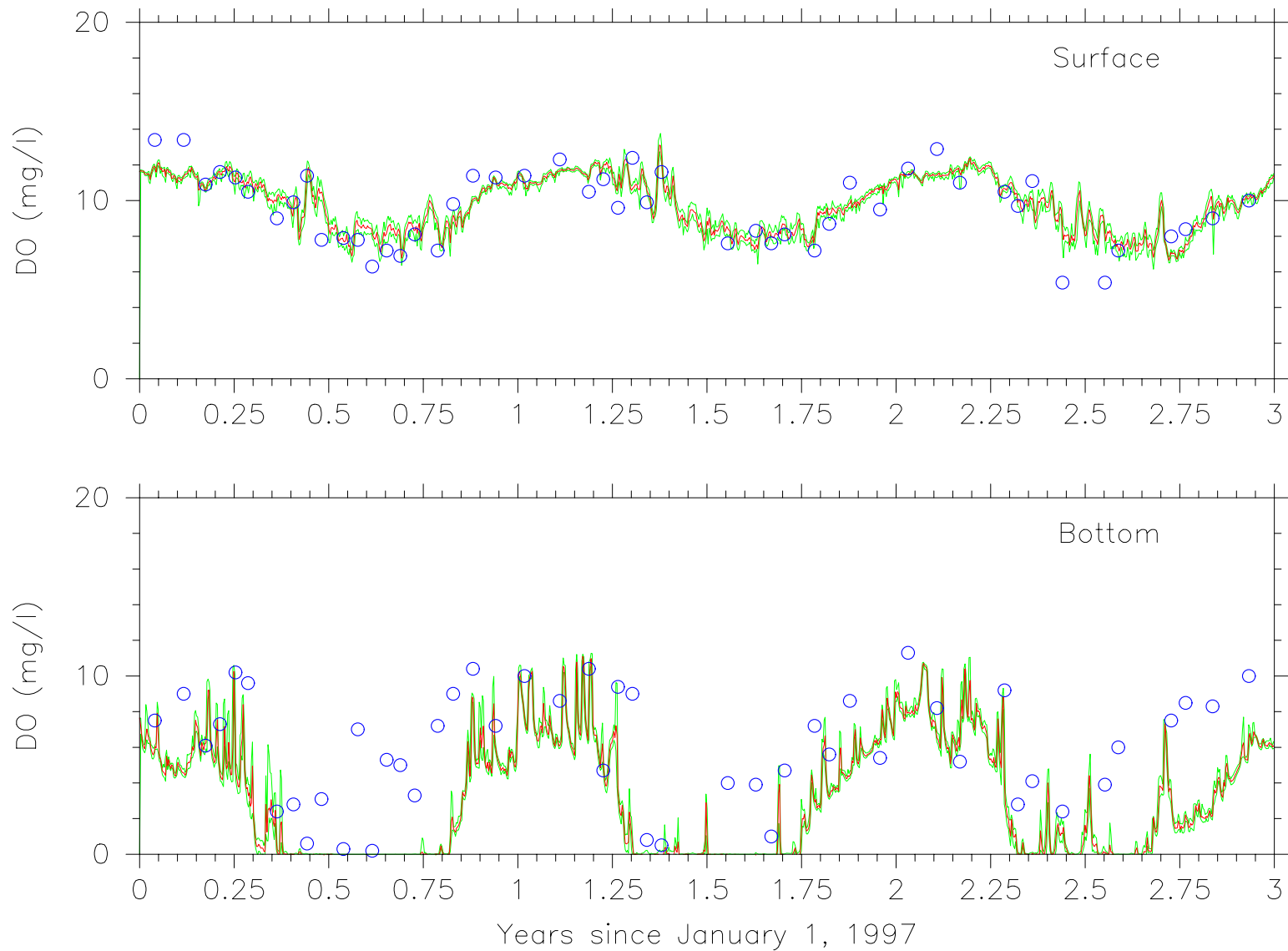
Dissolved Organic Nitrogen,ET4.2



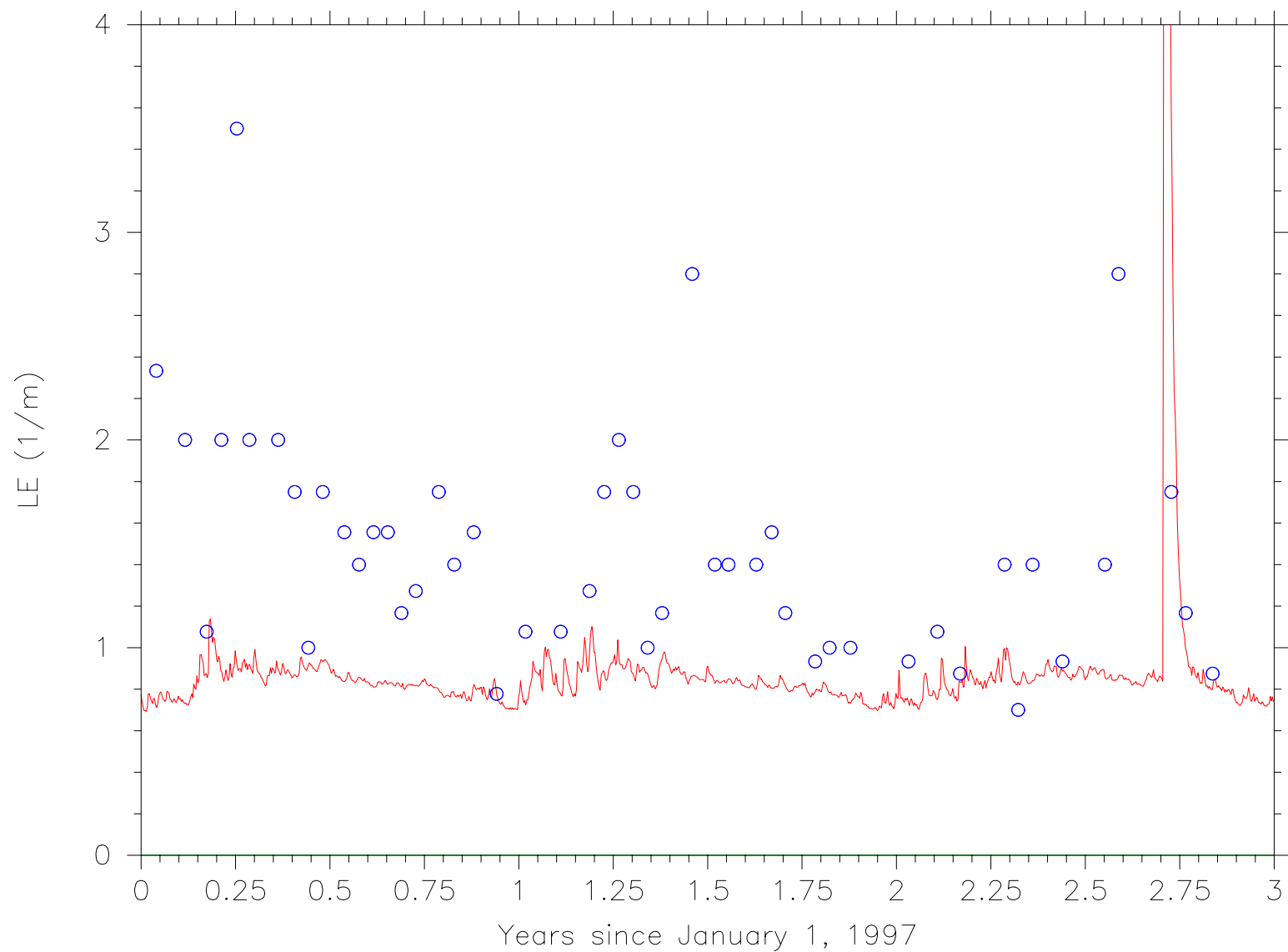
Dissolved Organic Phosphorus,ET4.2



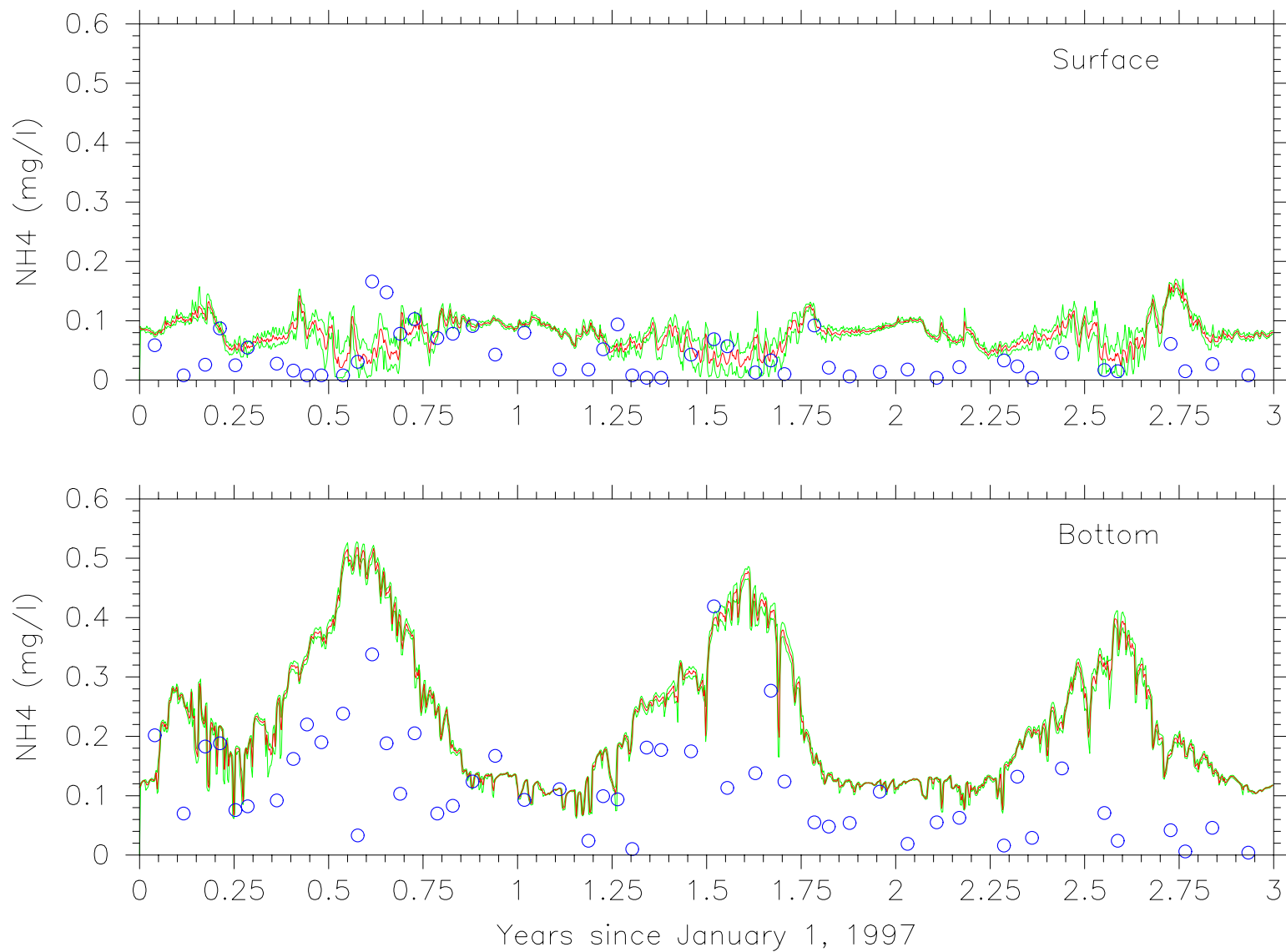
Dissolved Oxygen, ET4.2



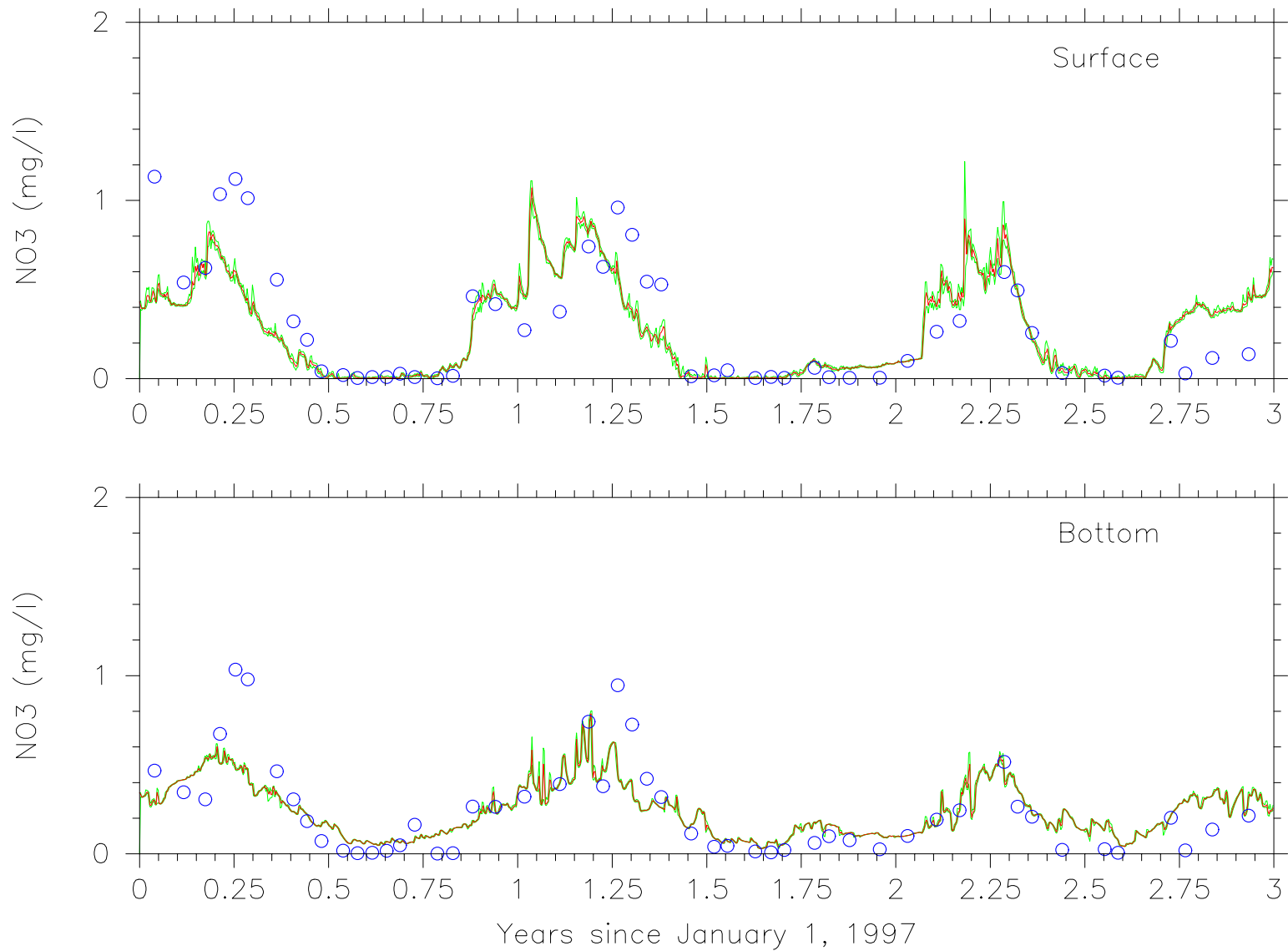
Light Extinction,ET4.2



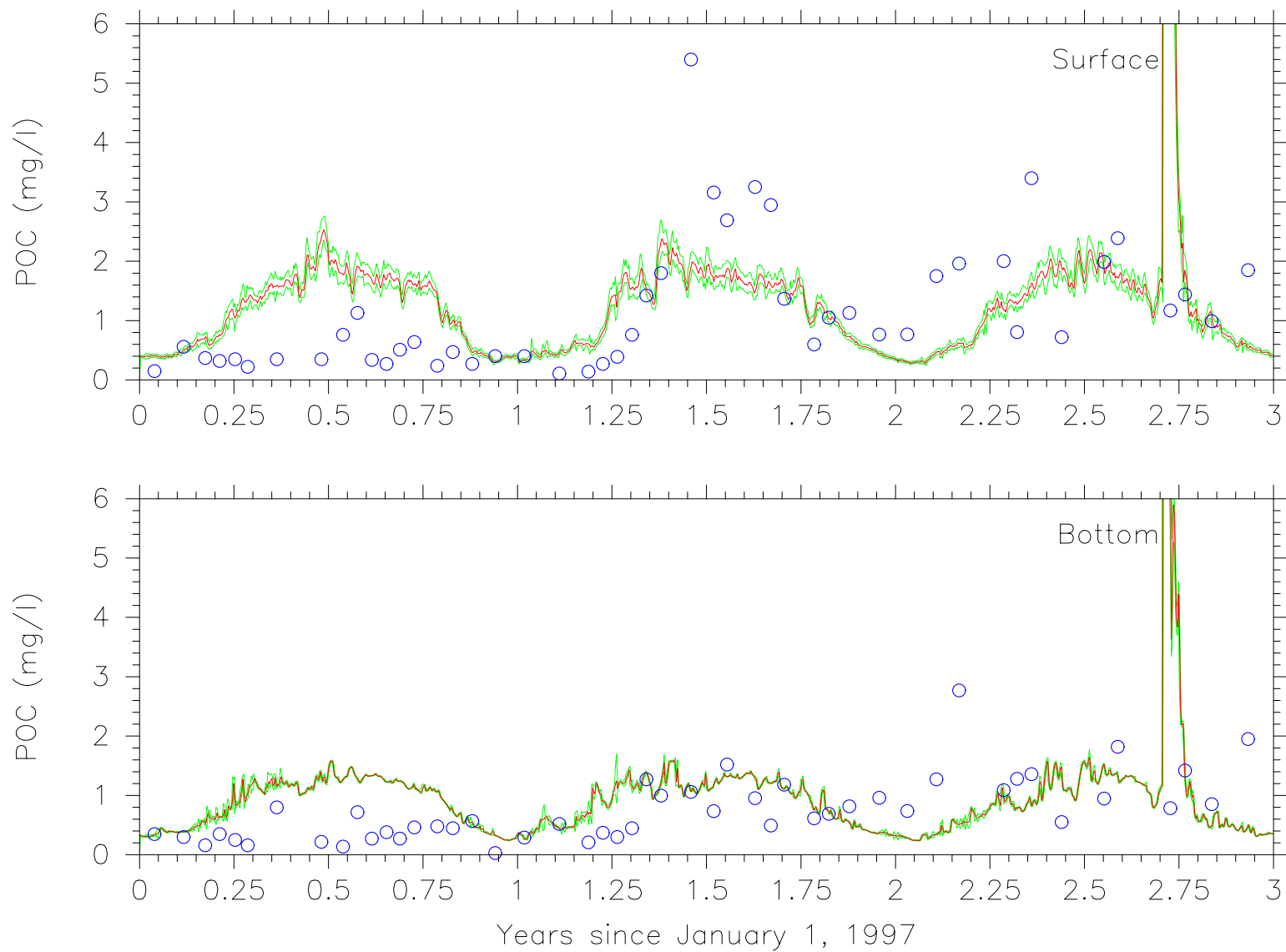
Ammonium, ET4.2



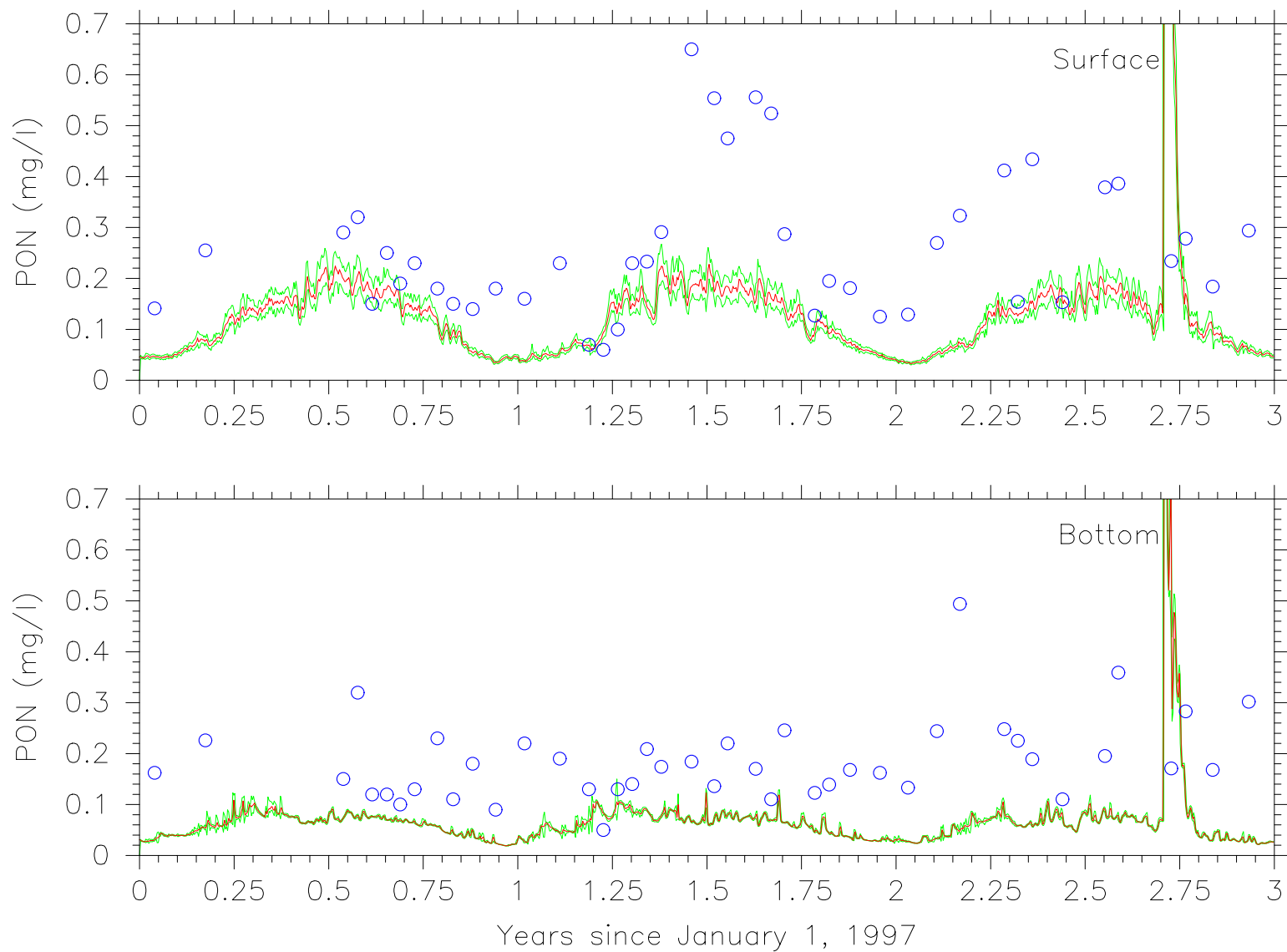
Nitrate,ET4.2



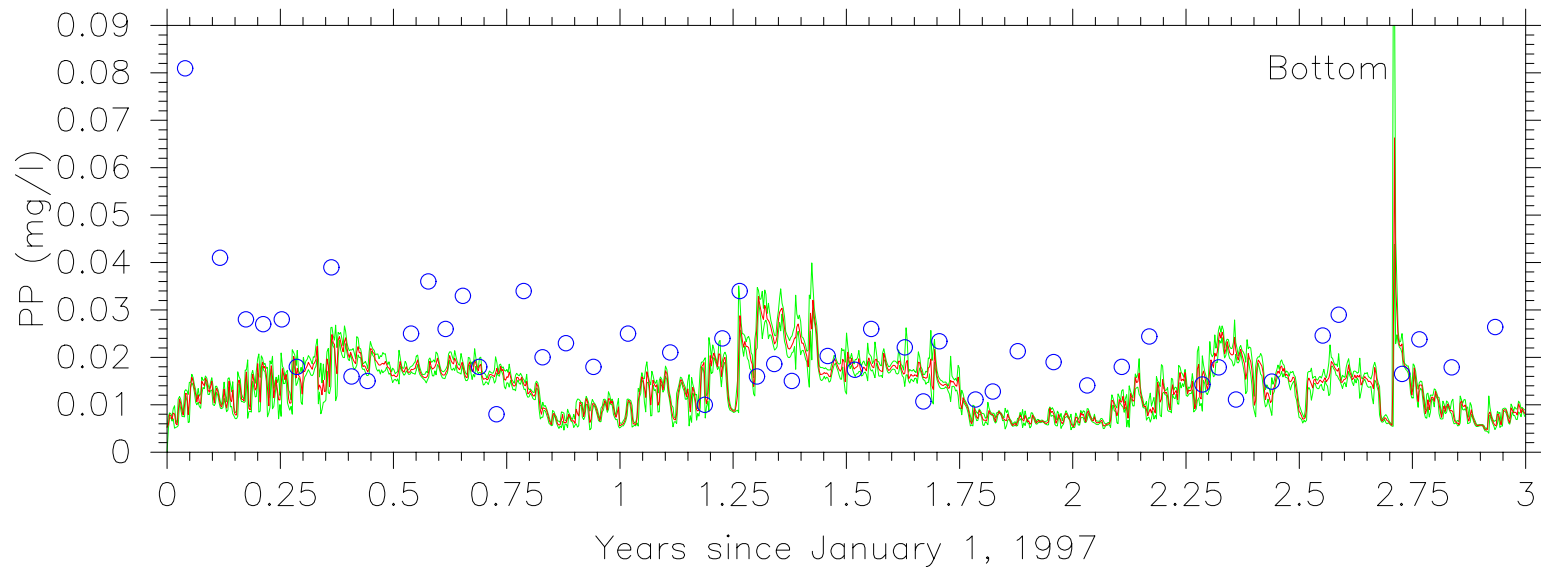
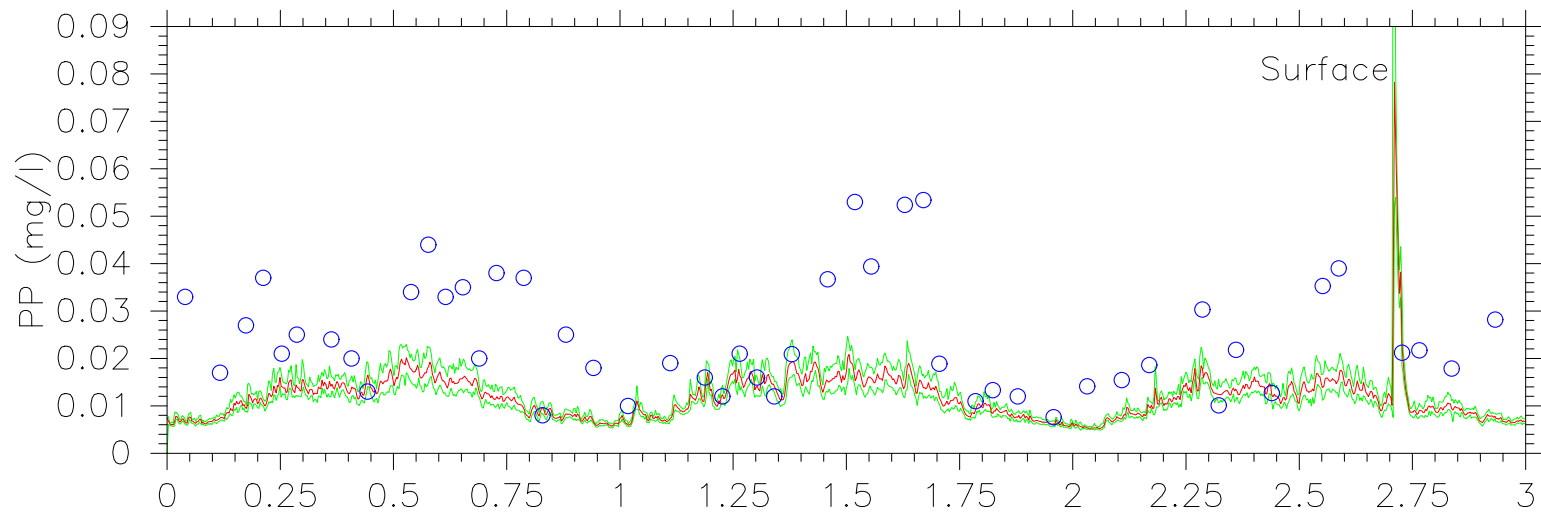
Particulate Organic Carbon,ET4.2



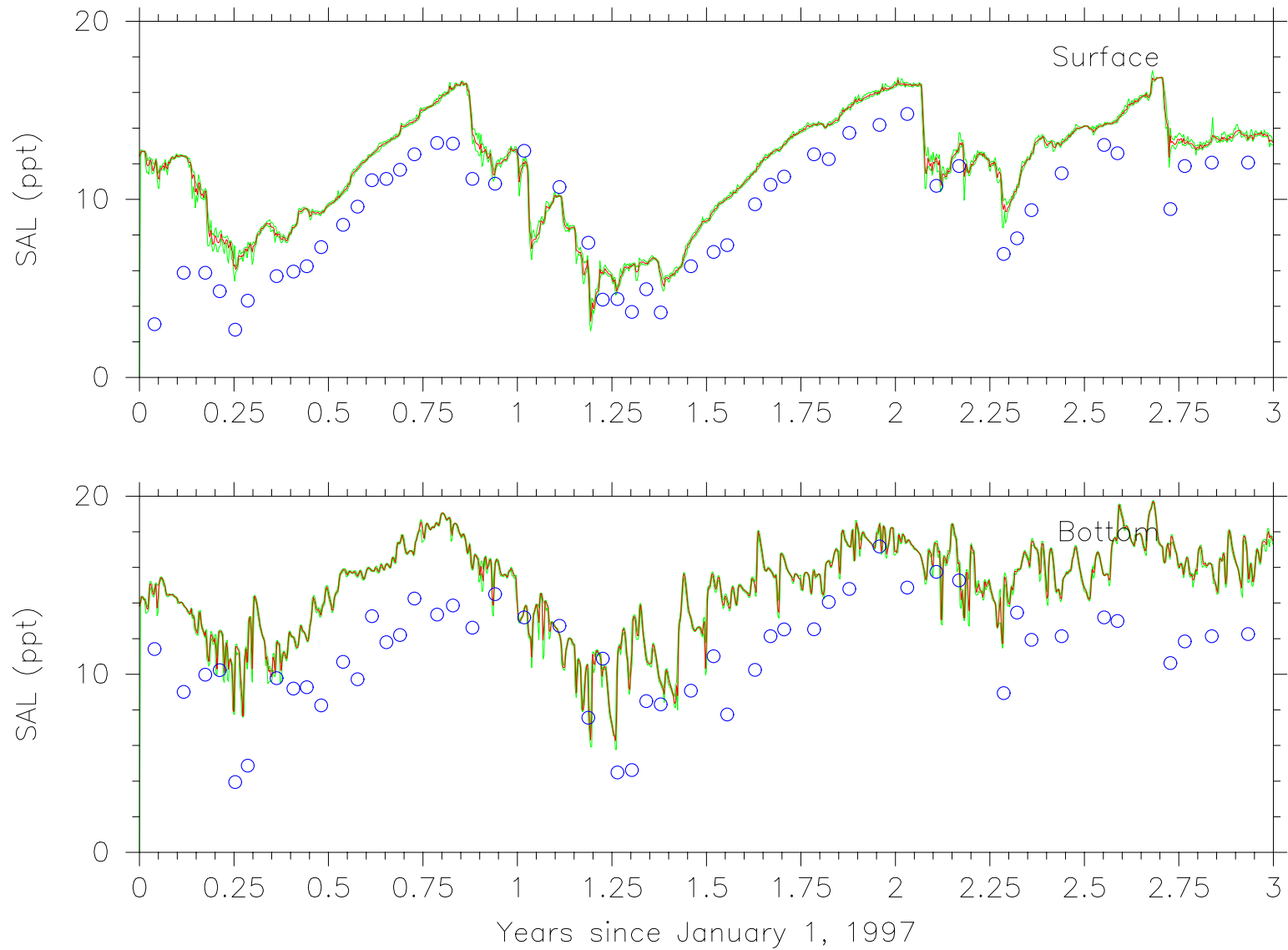
Particulate Organic Nitrogen, ET4.2



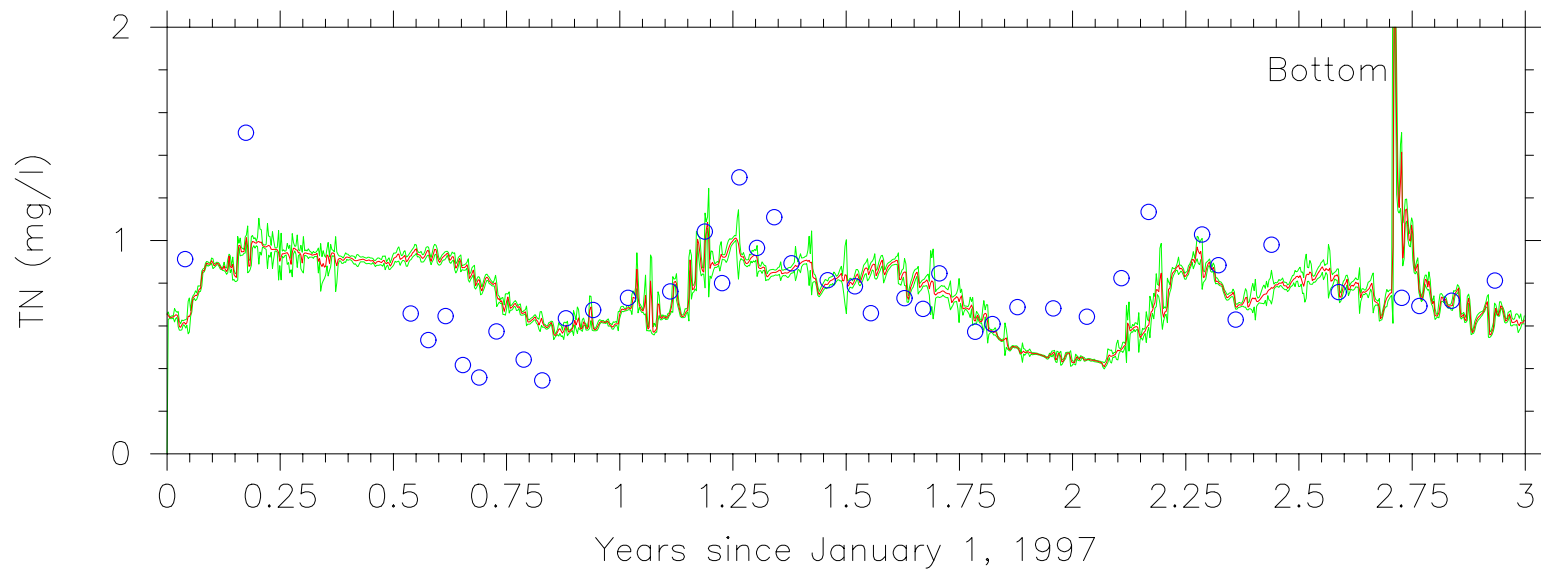
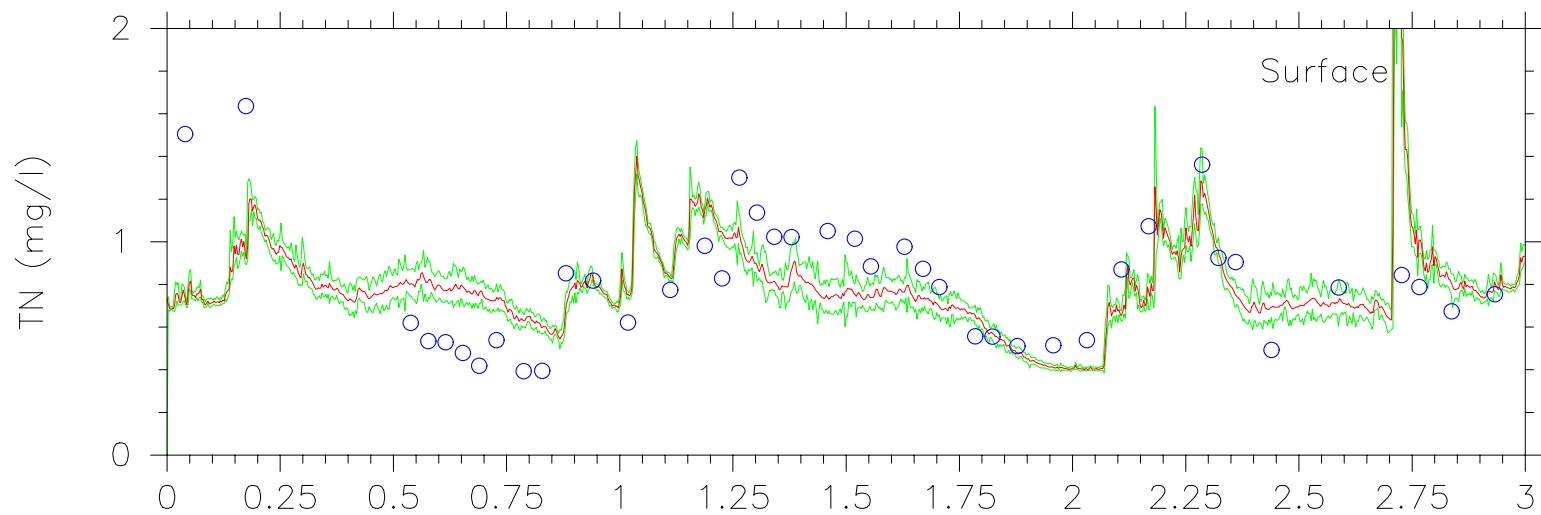
Particulate Phosphorus,ET4.2



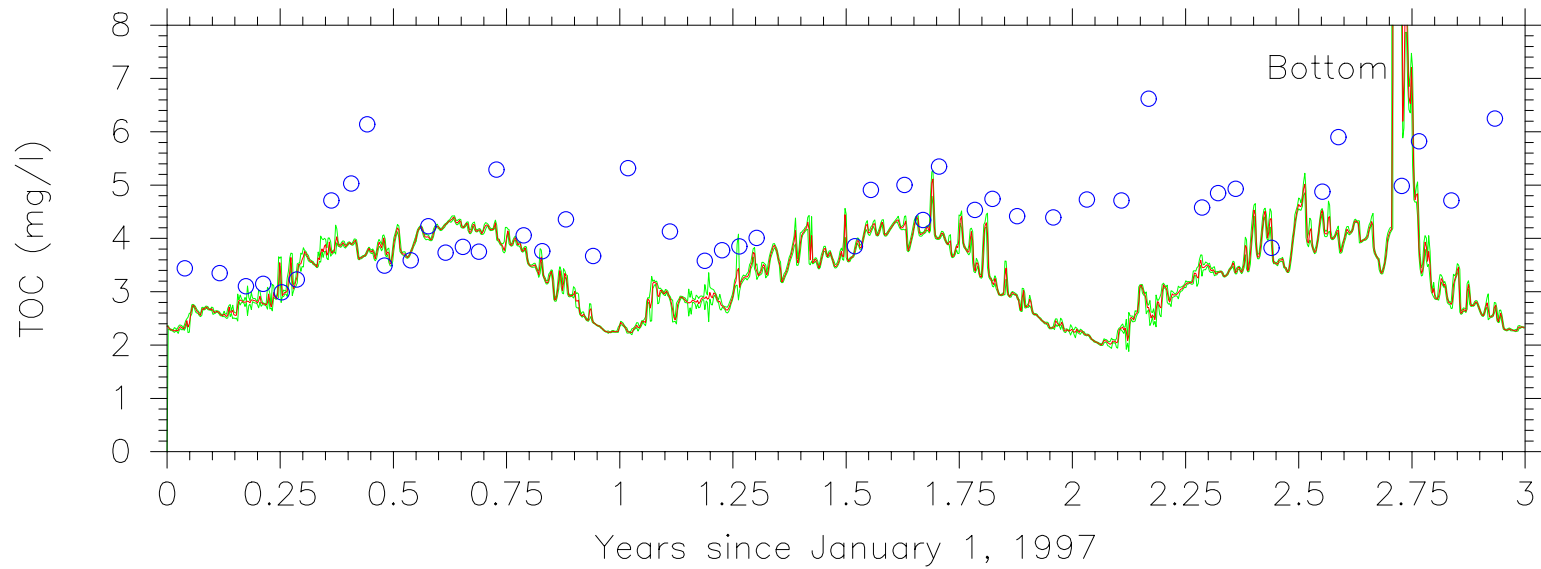
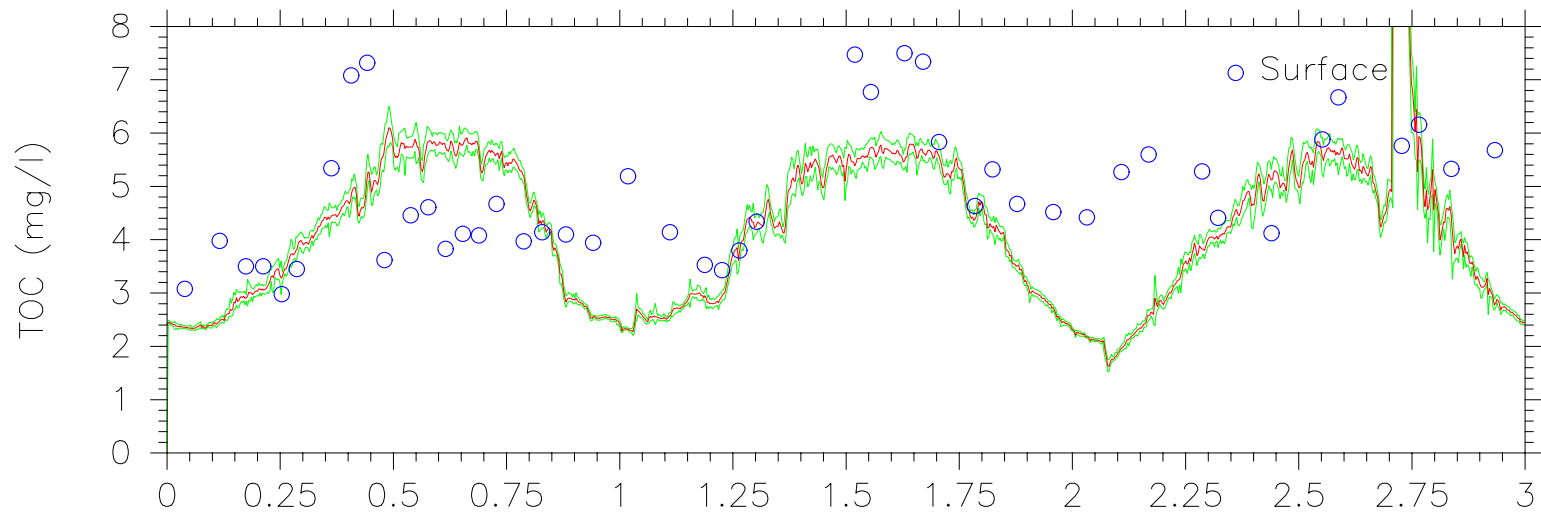
Salinity, ET4.2



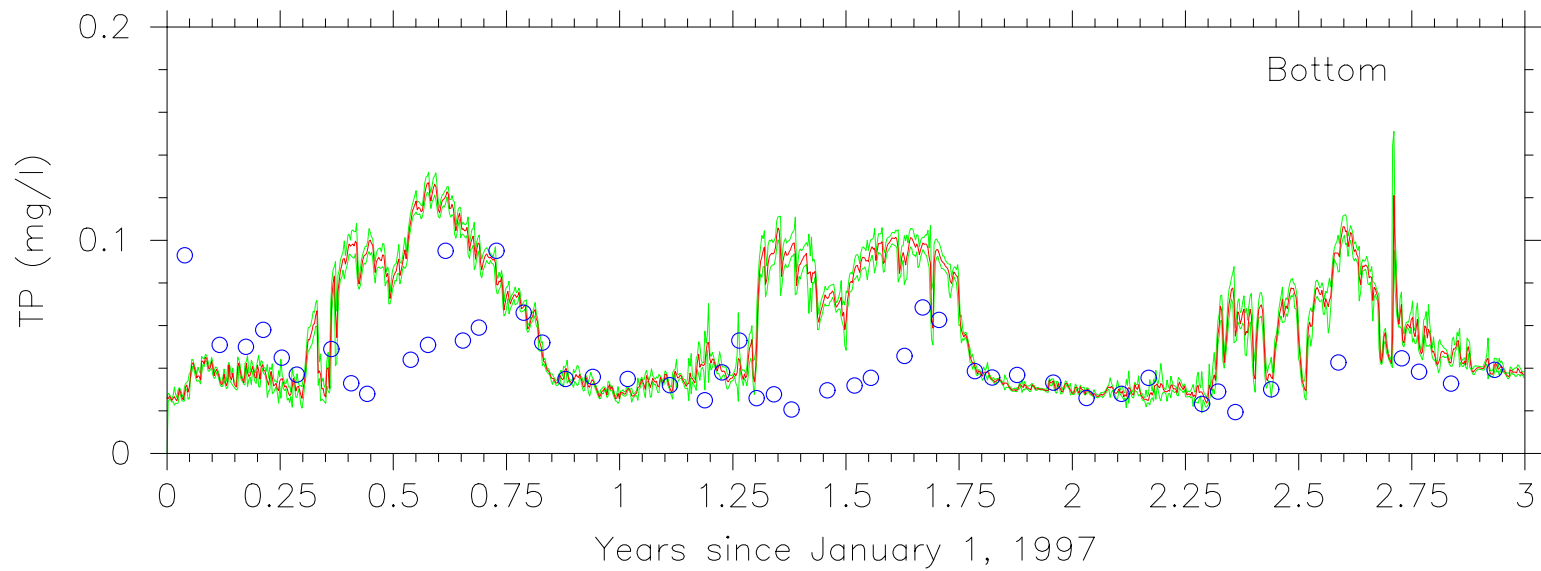
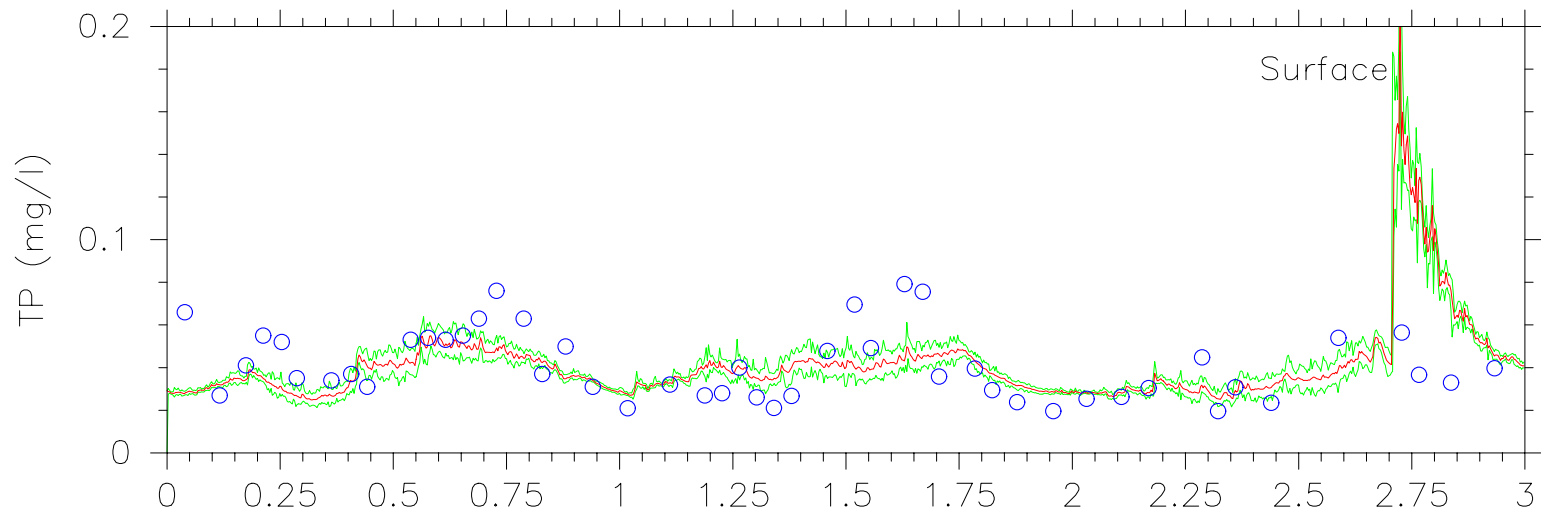
Total Nitrogen, ET4.2



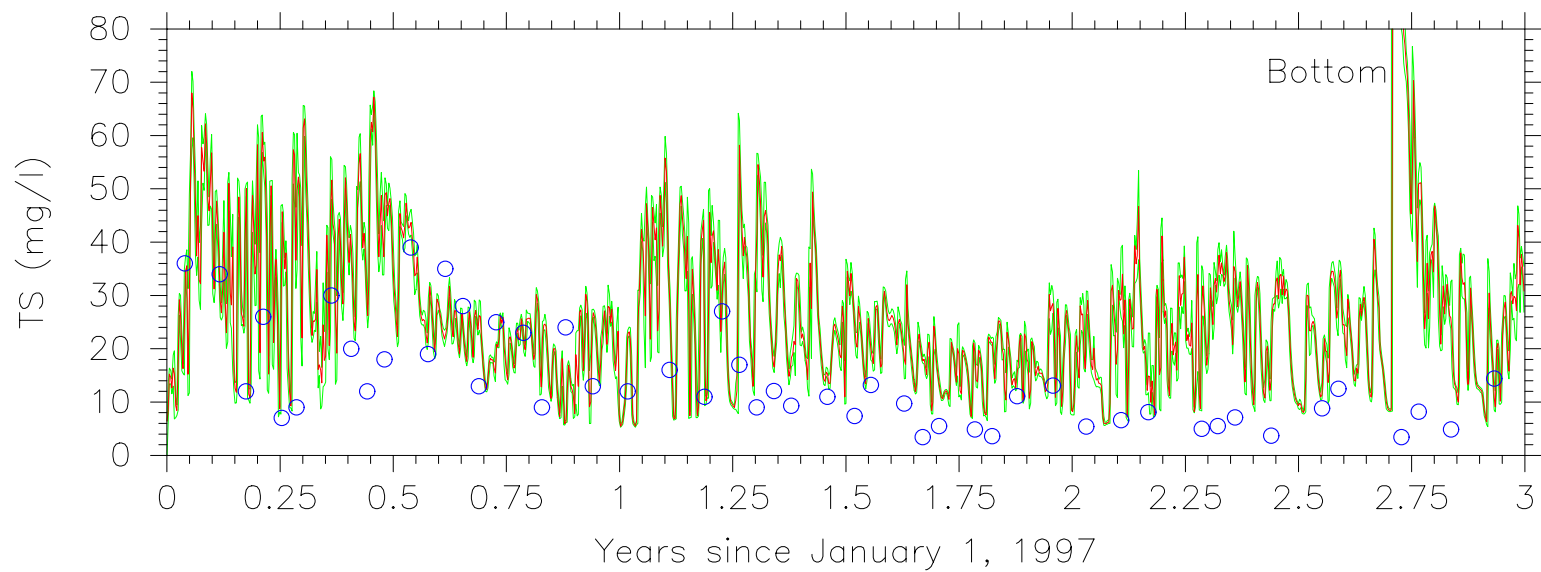
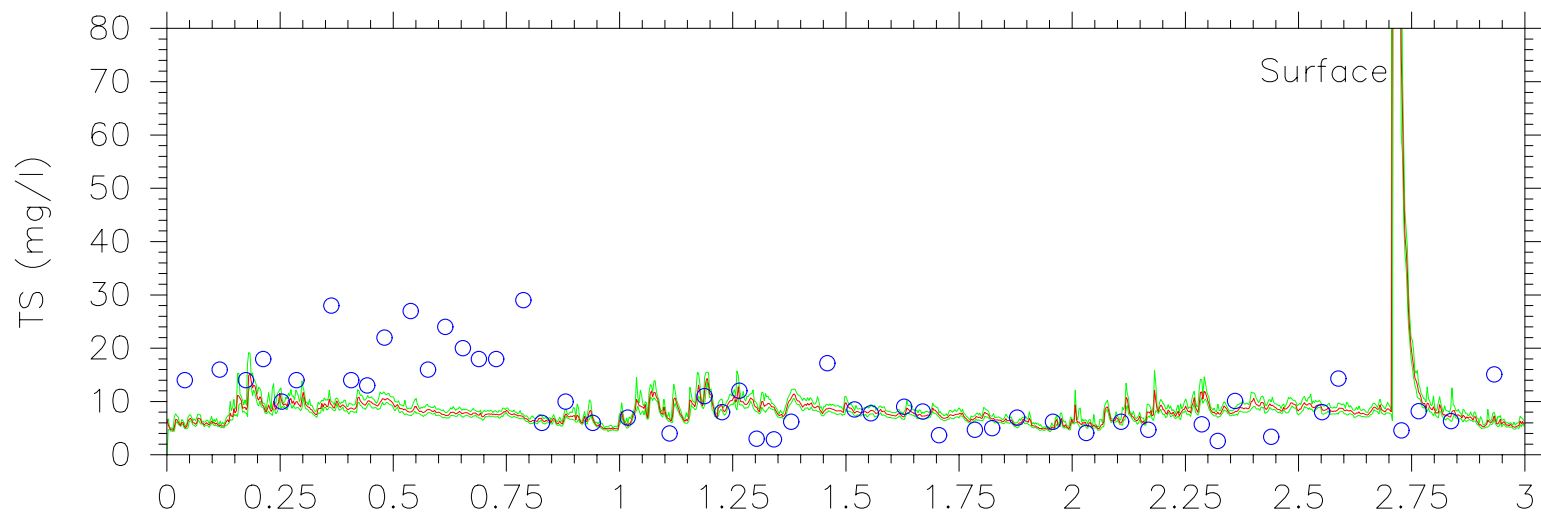
Total Organic Carbon,ET4.2



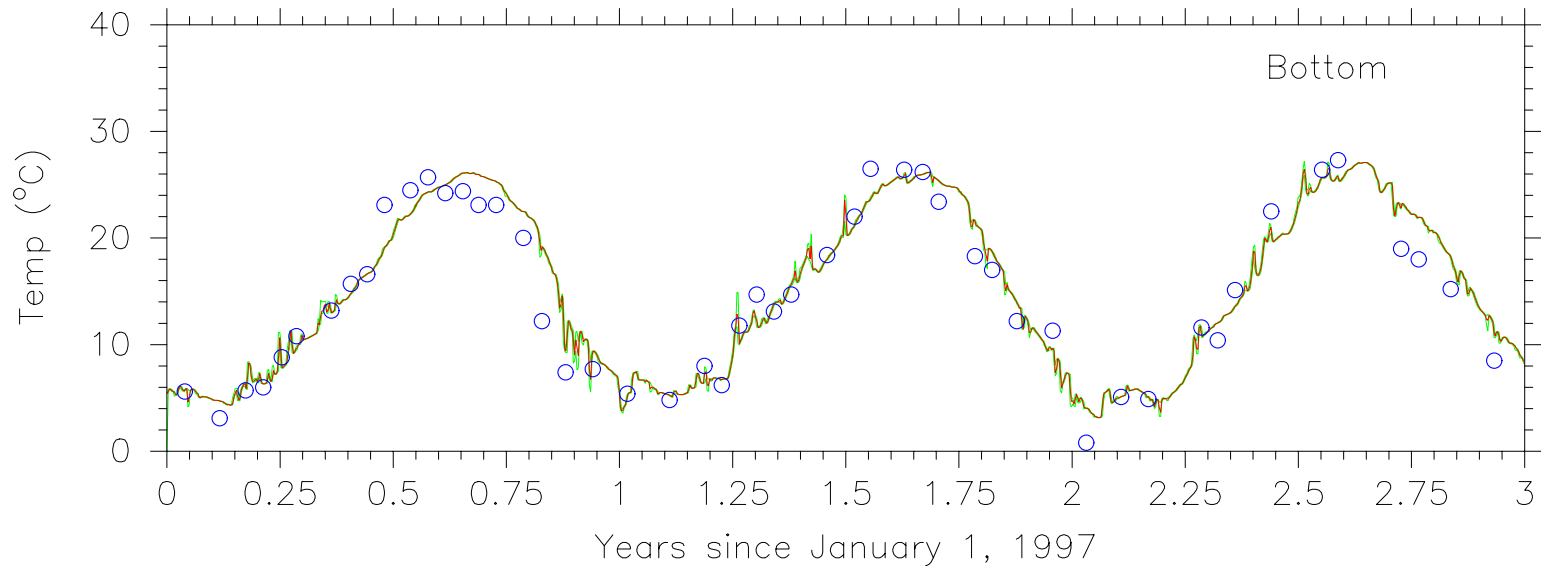
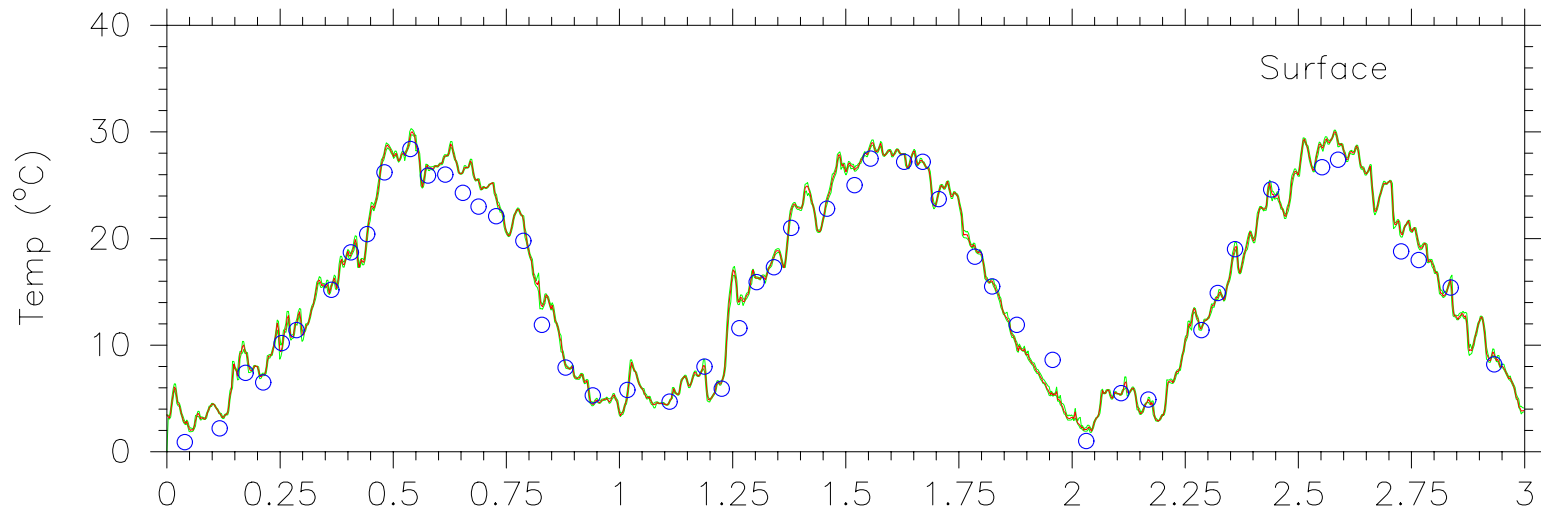
Total Phosphorus, ET4.2



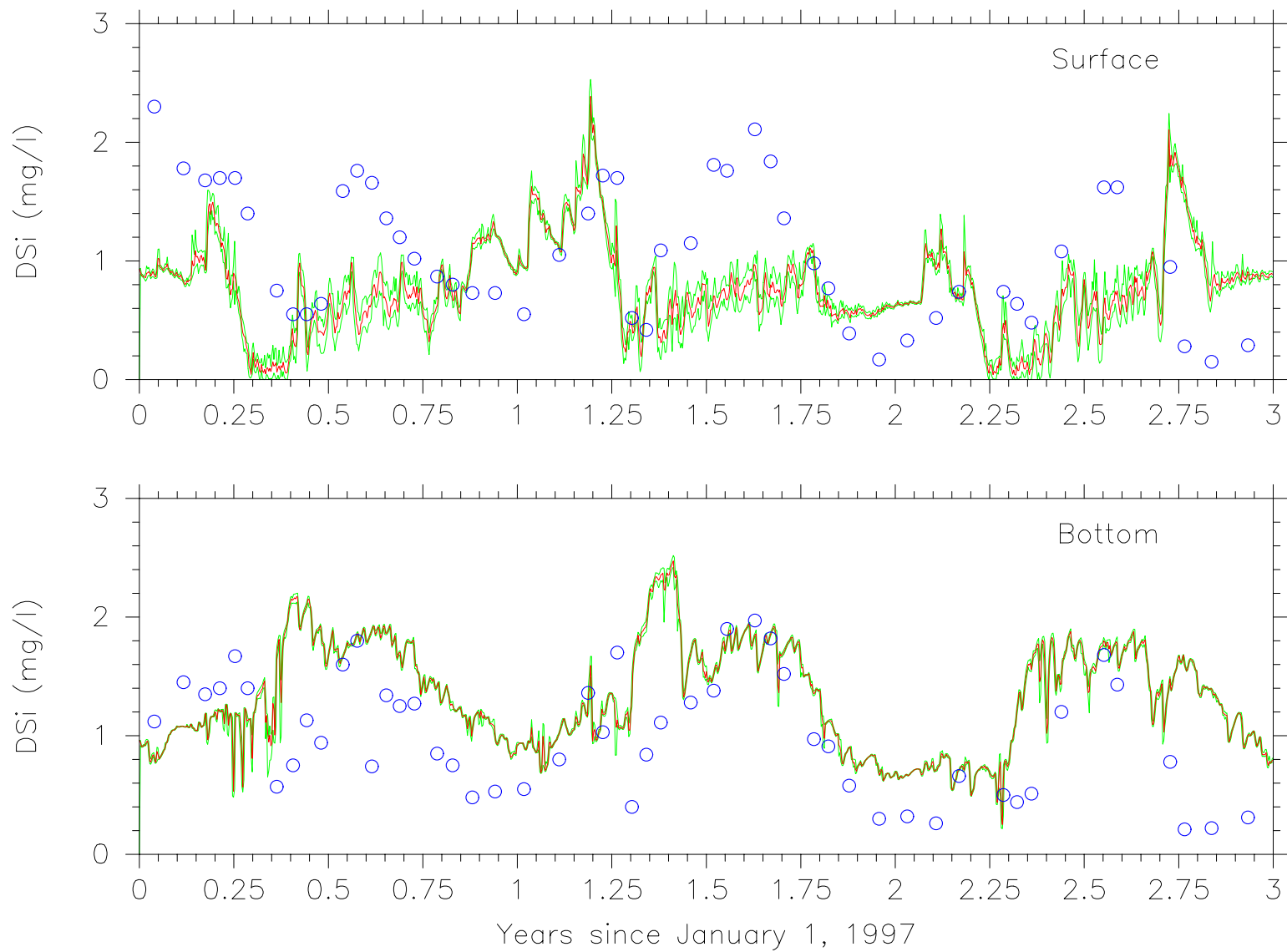
Total Solids,ET4.2



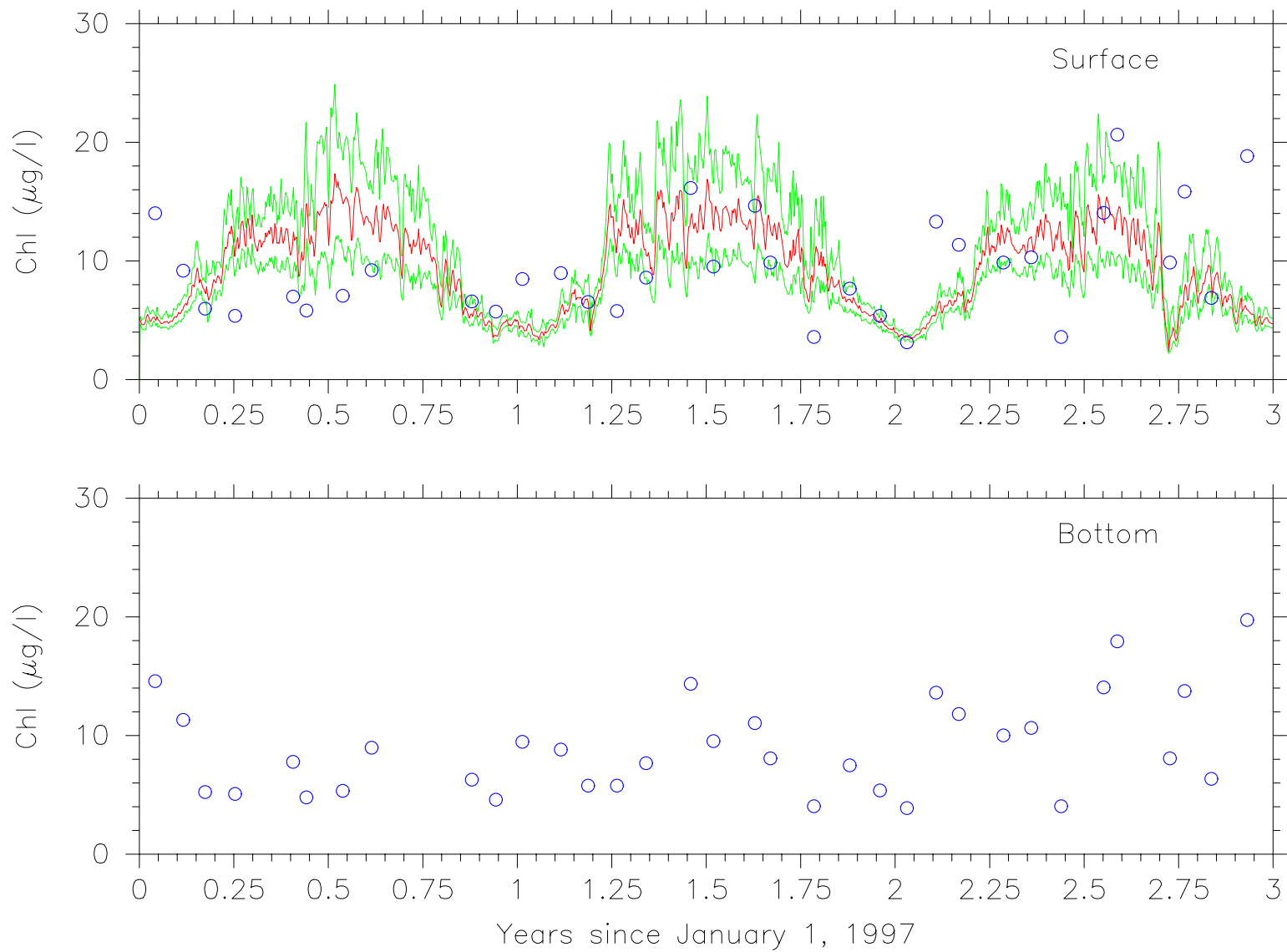
Temperature,ET4.2



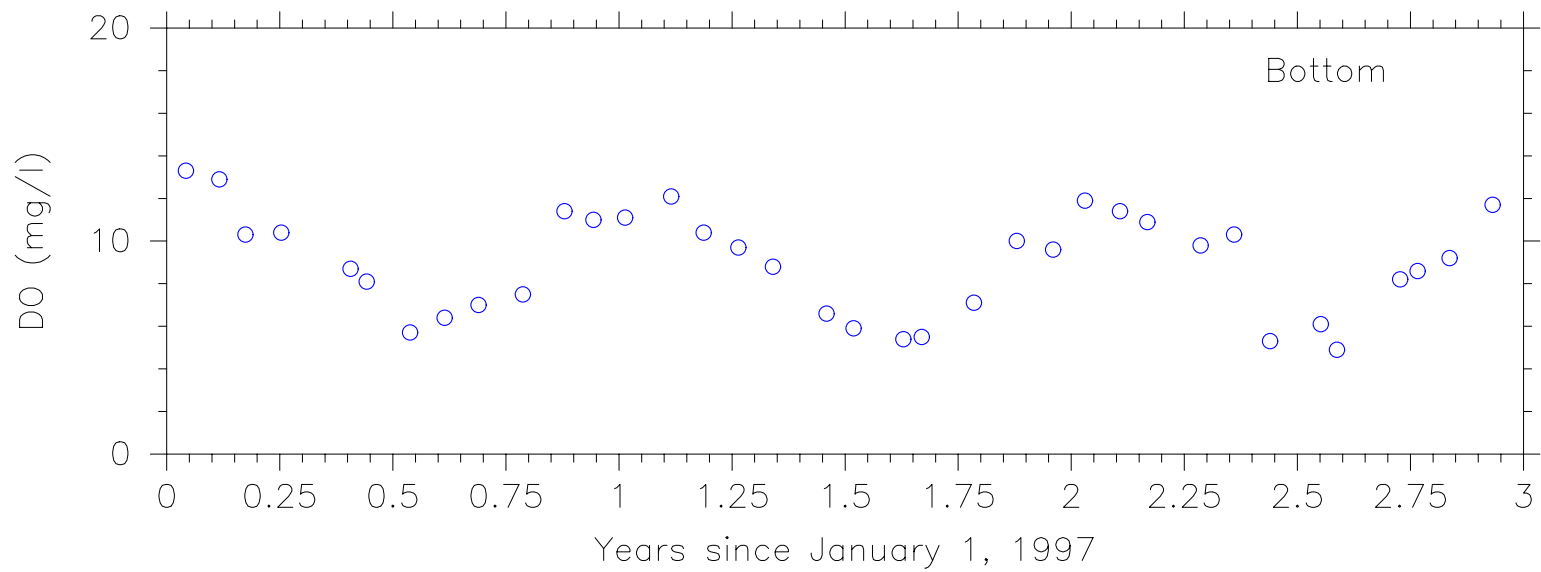
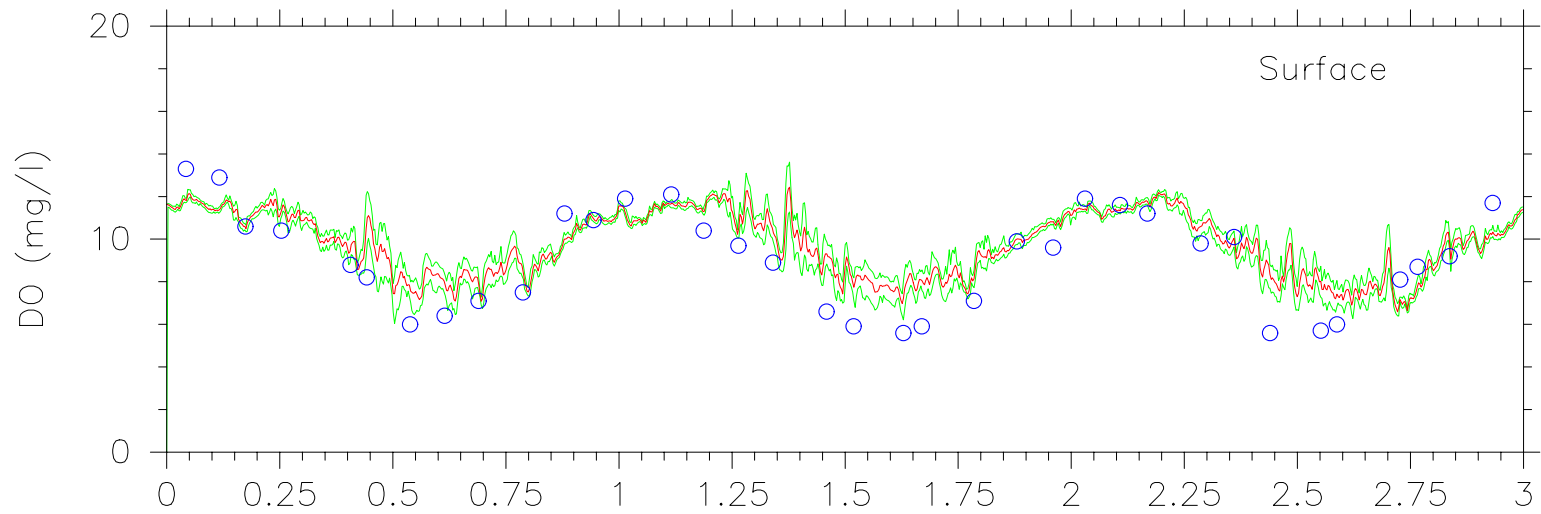
Dissolved Silica, ET4.2



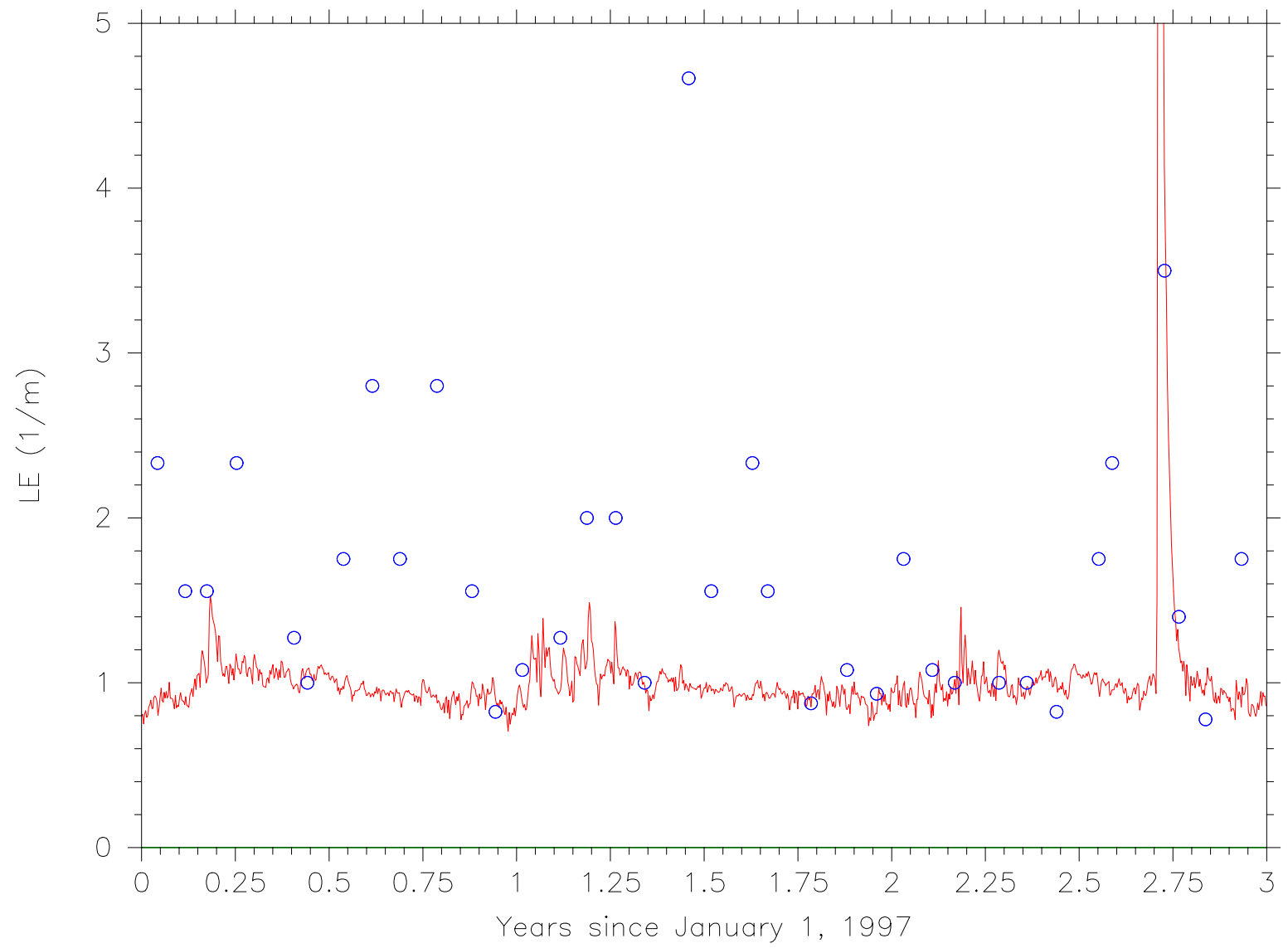
Chlorophyll, XGG8251



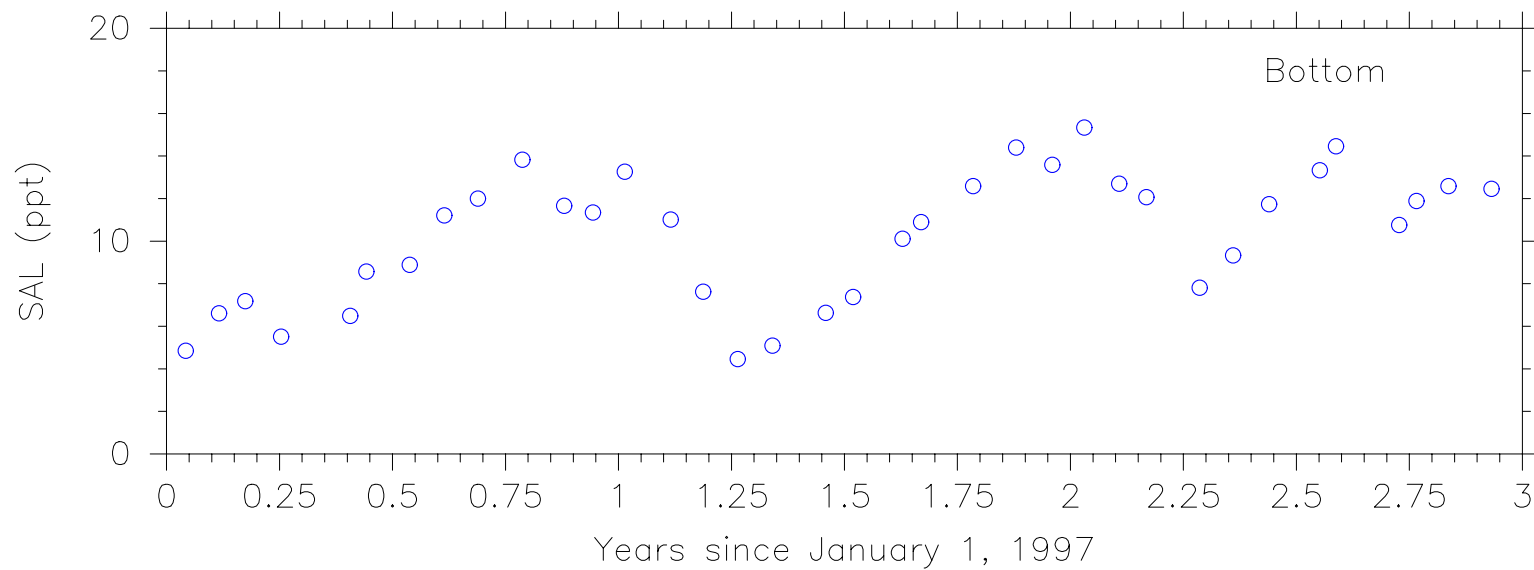
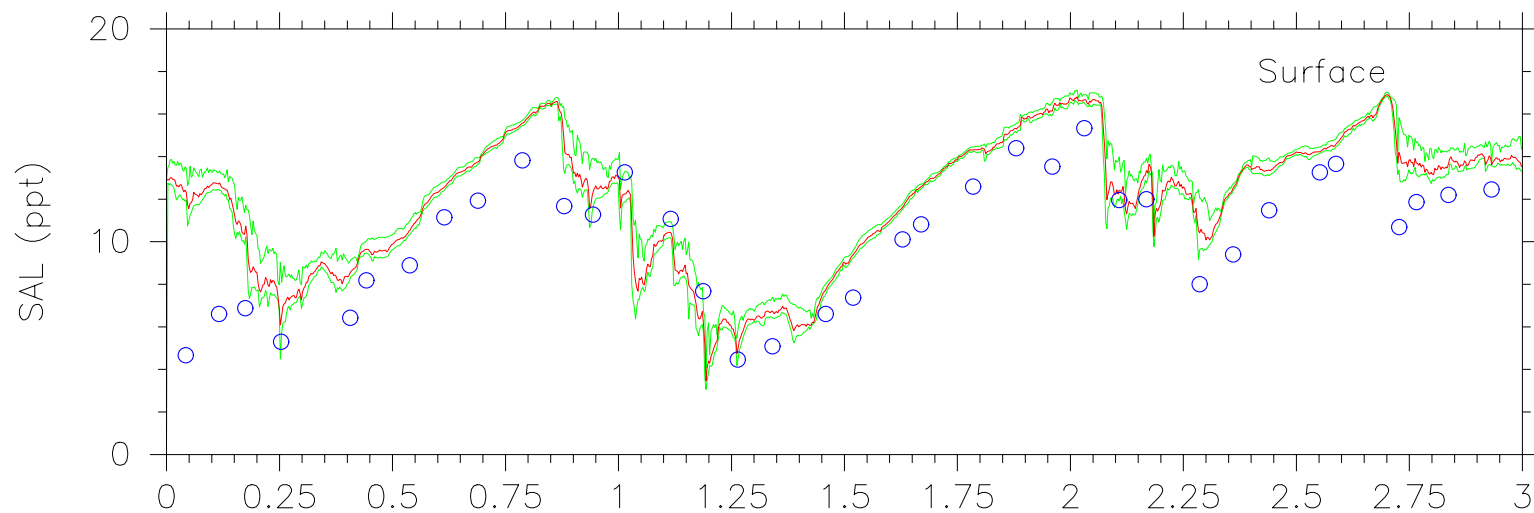
Dissolved Oxygen, XGG8251



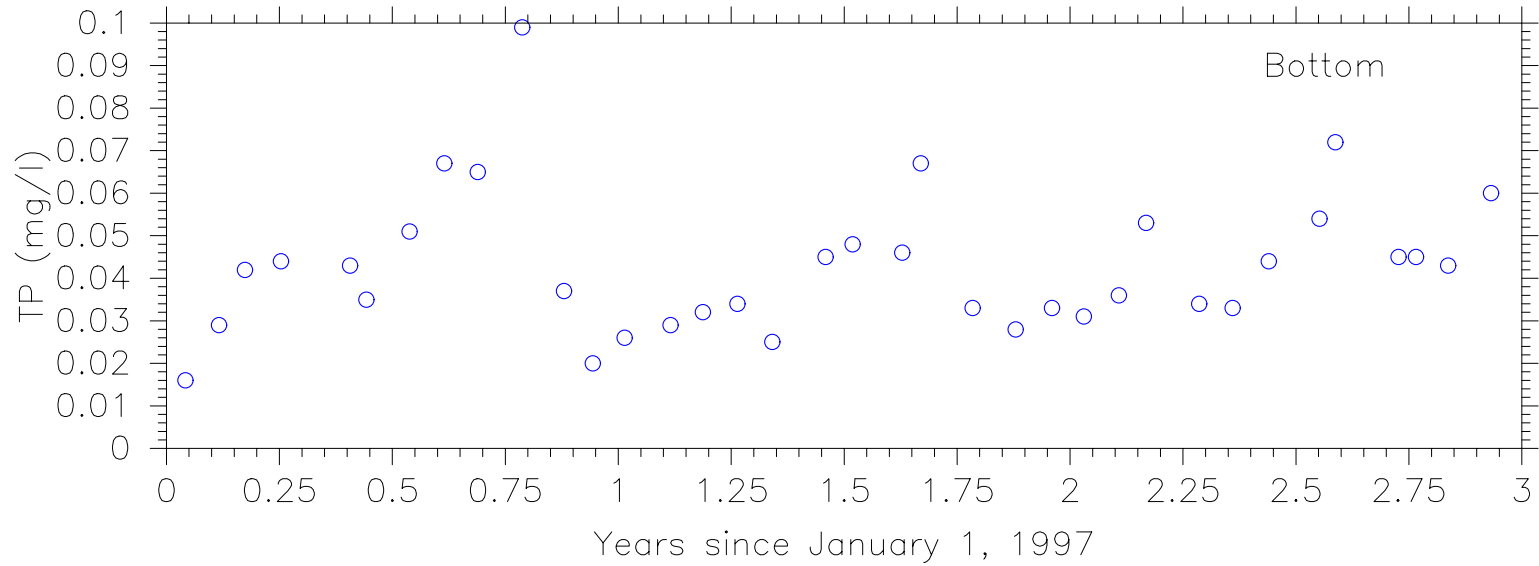
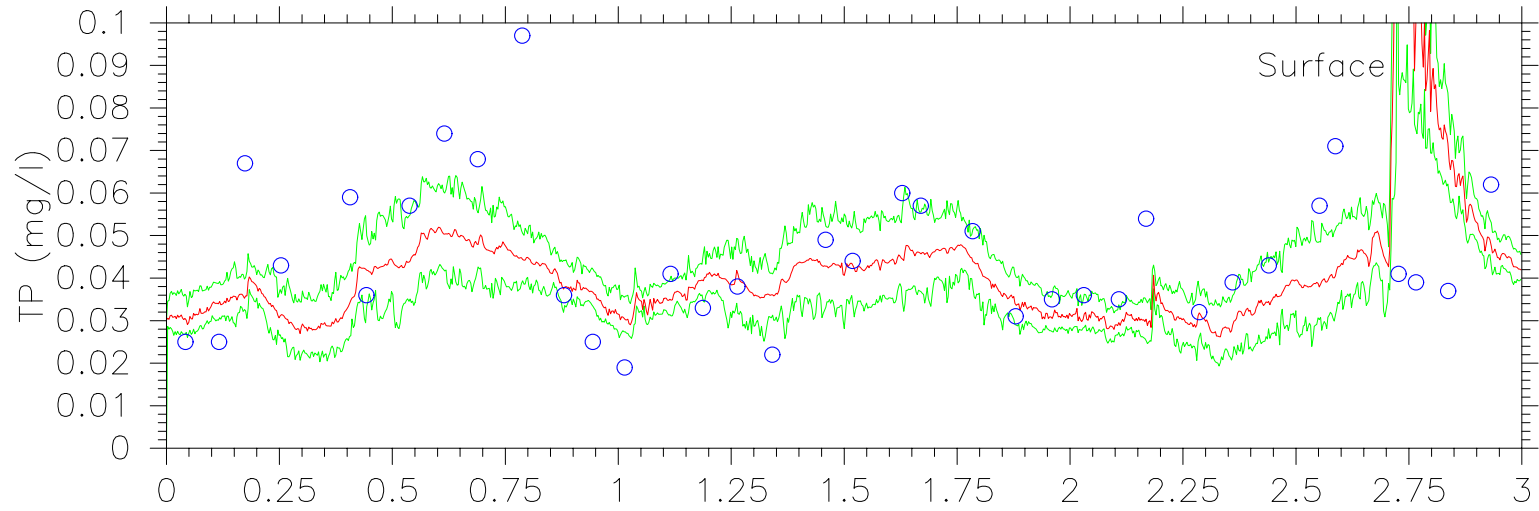
Light Extinction,XGG8251



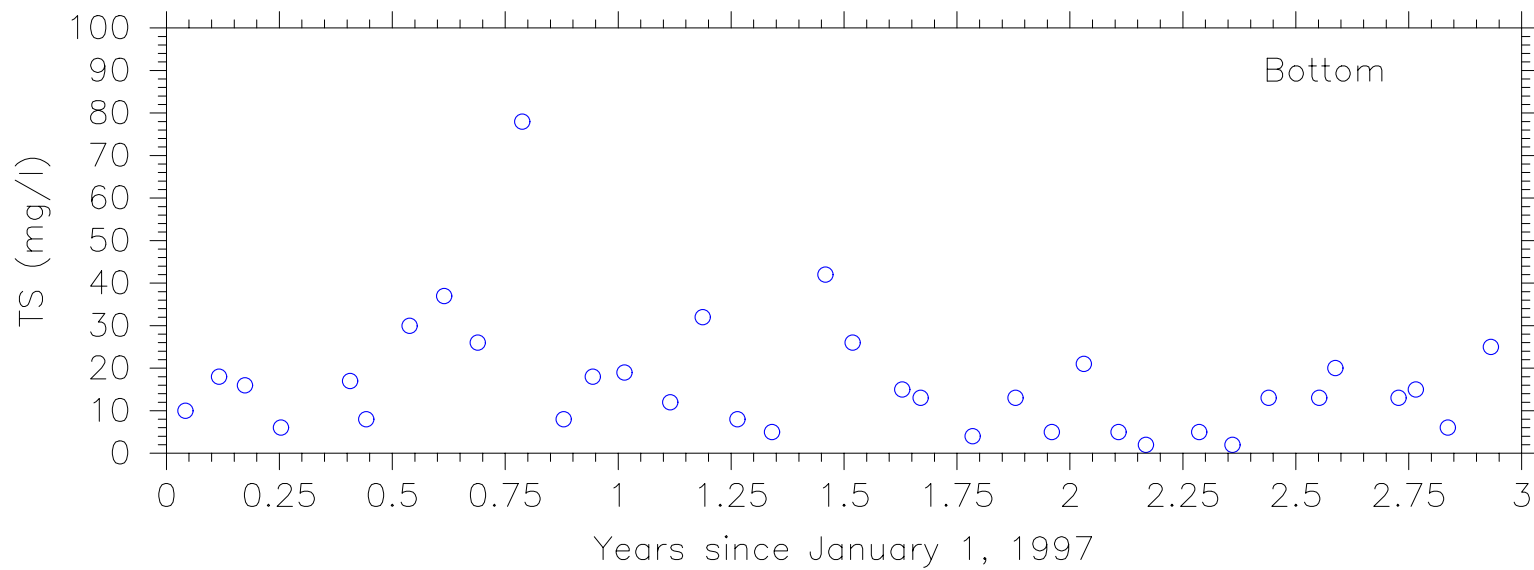
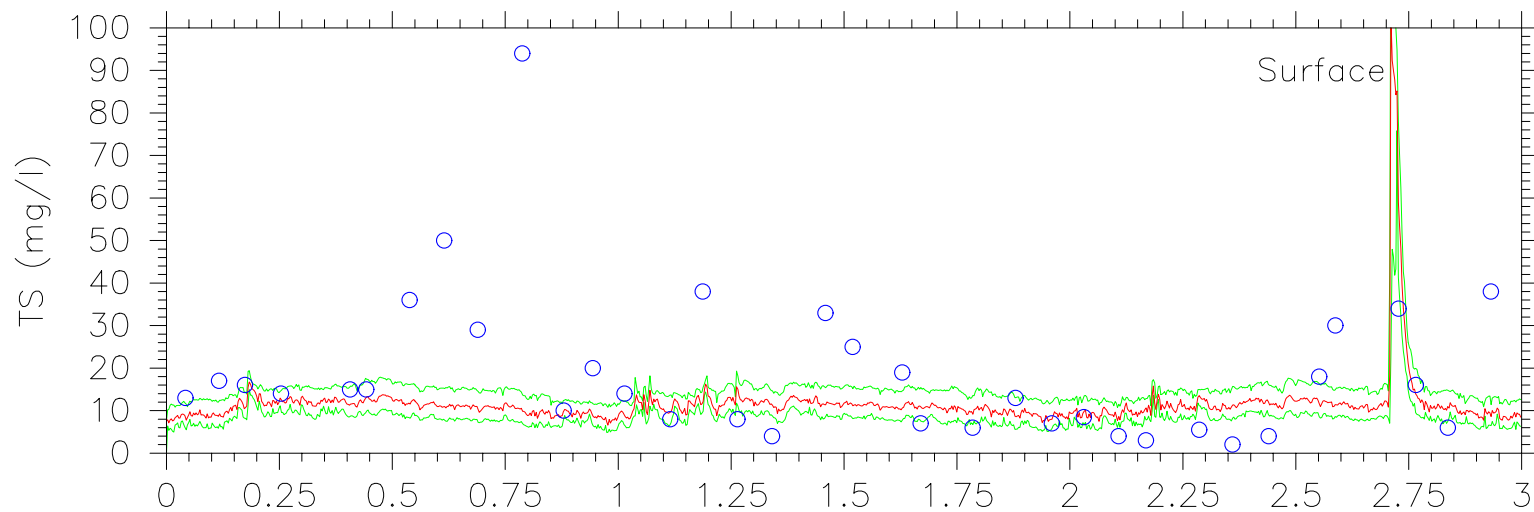
Salinity,XGG8251



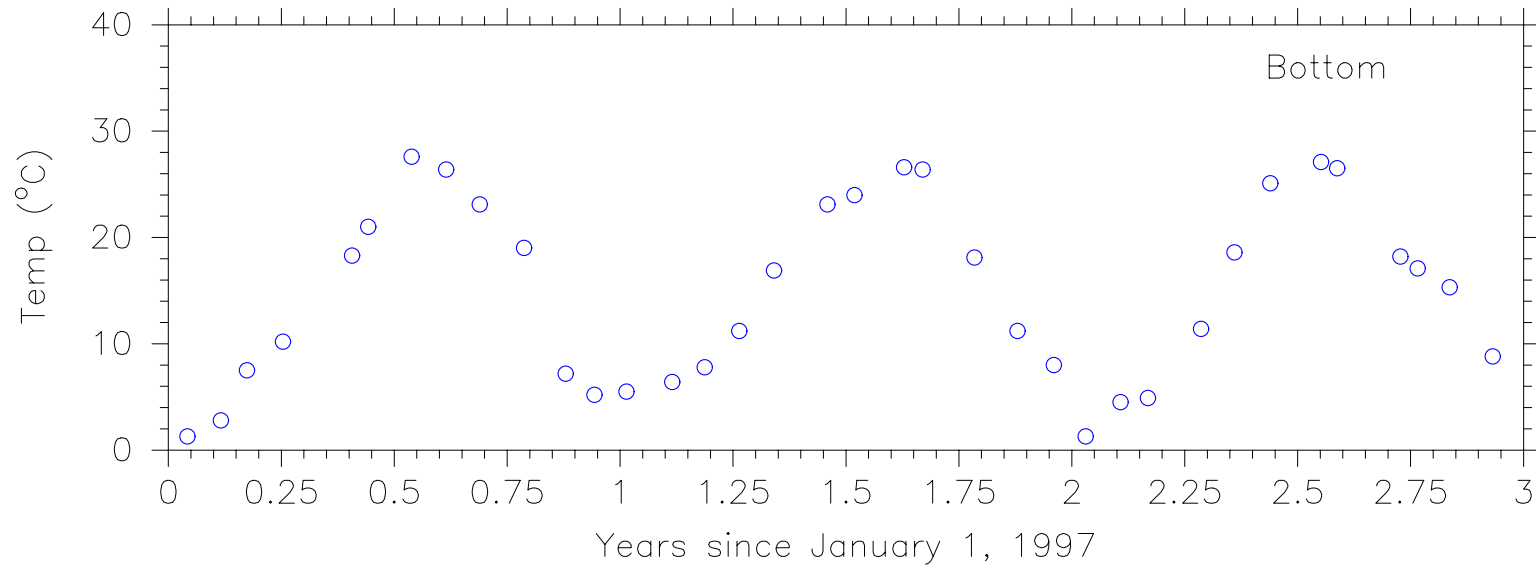
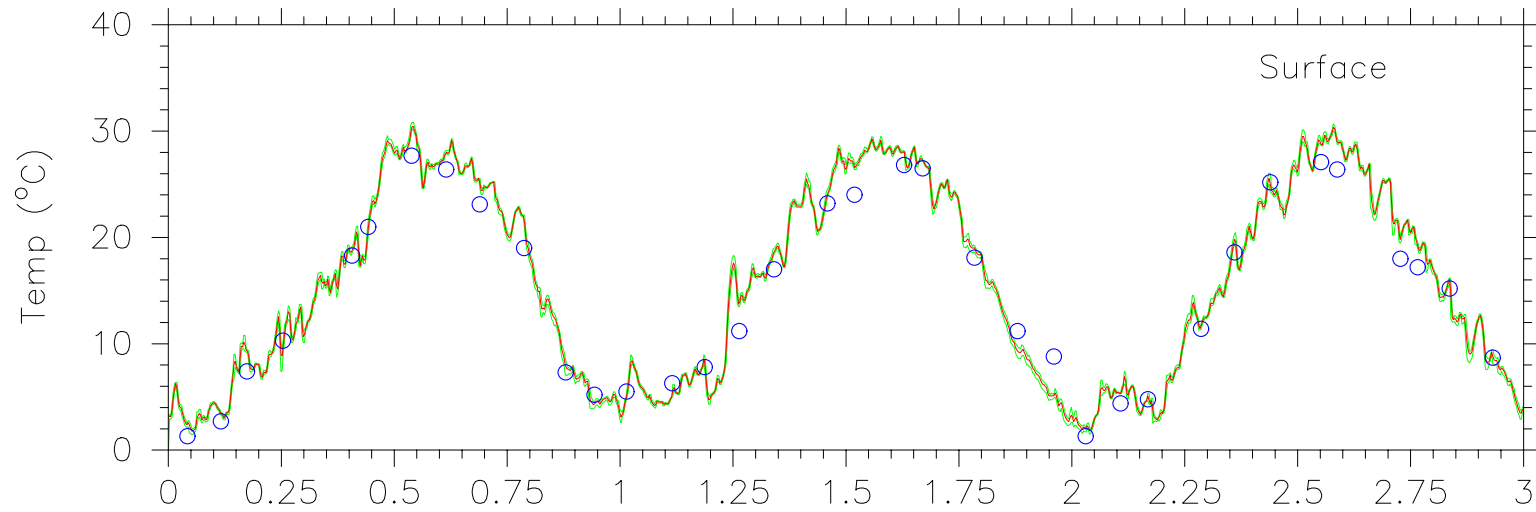
Total Phosphorus, XGG8251



Total Solids, XGG8251



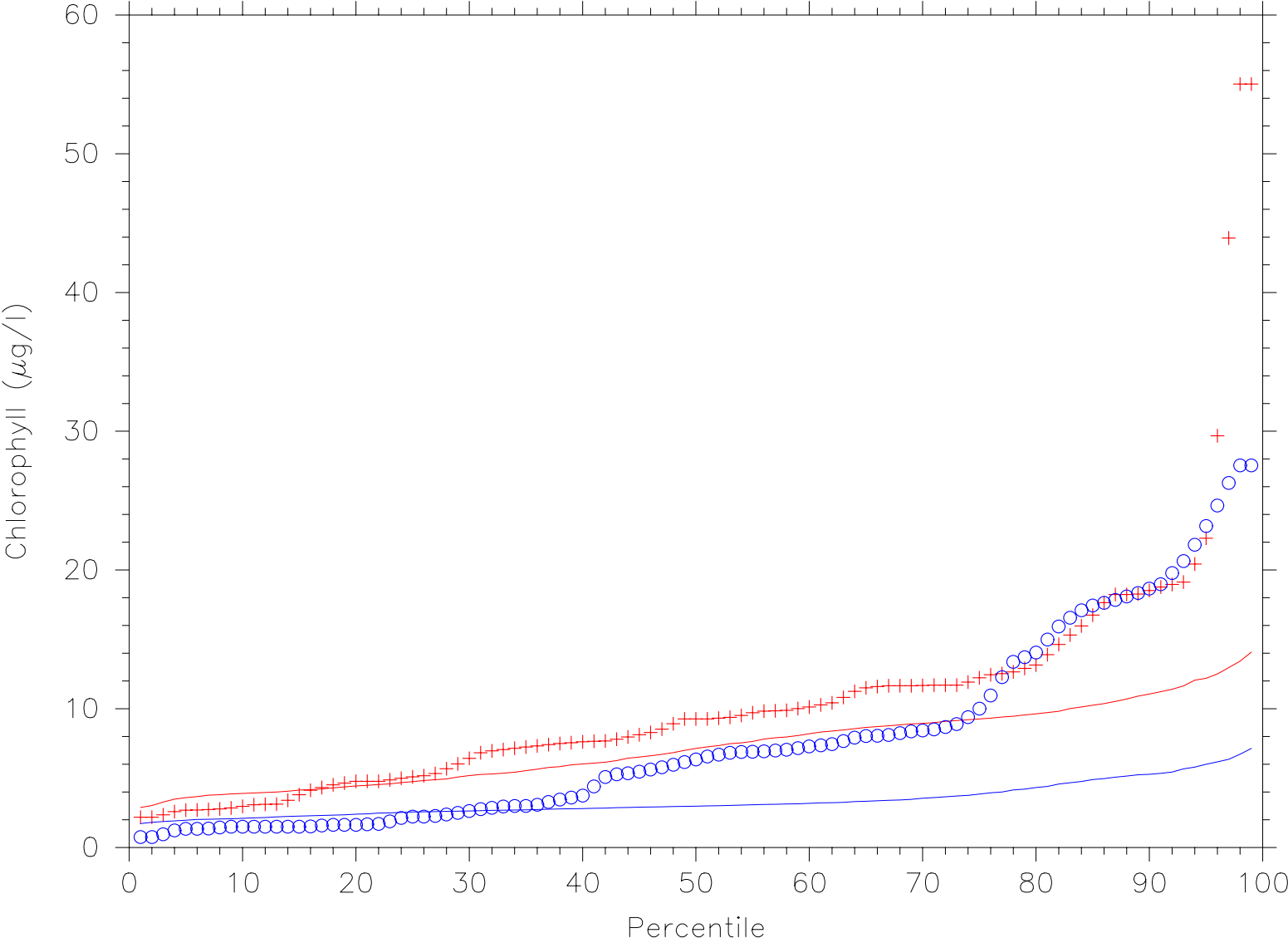
Temperature,XGG8251



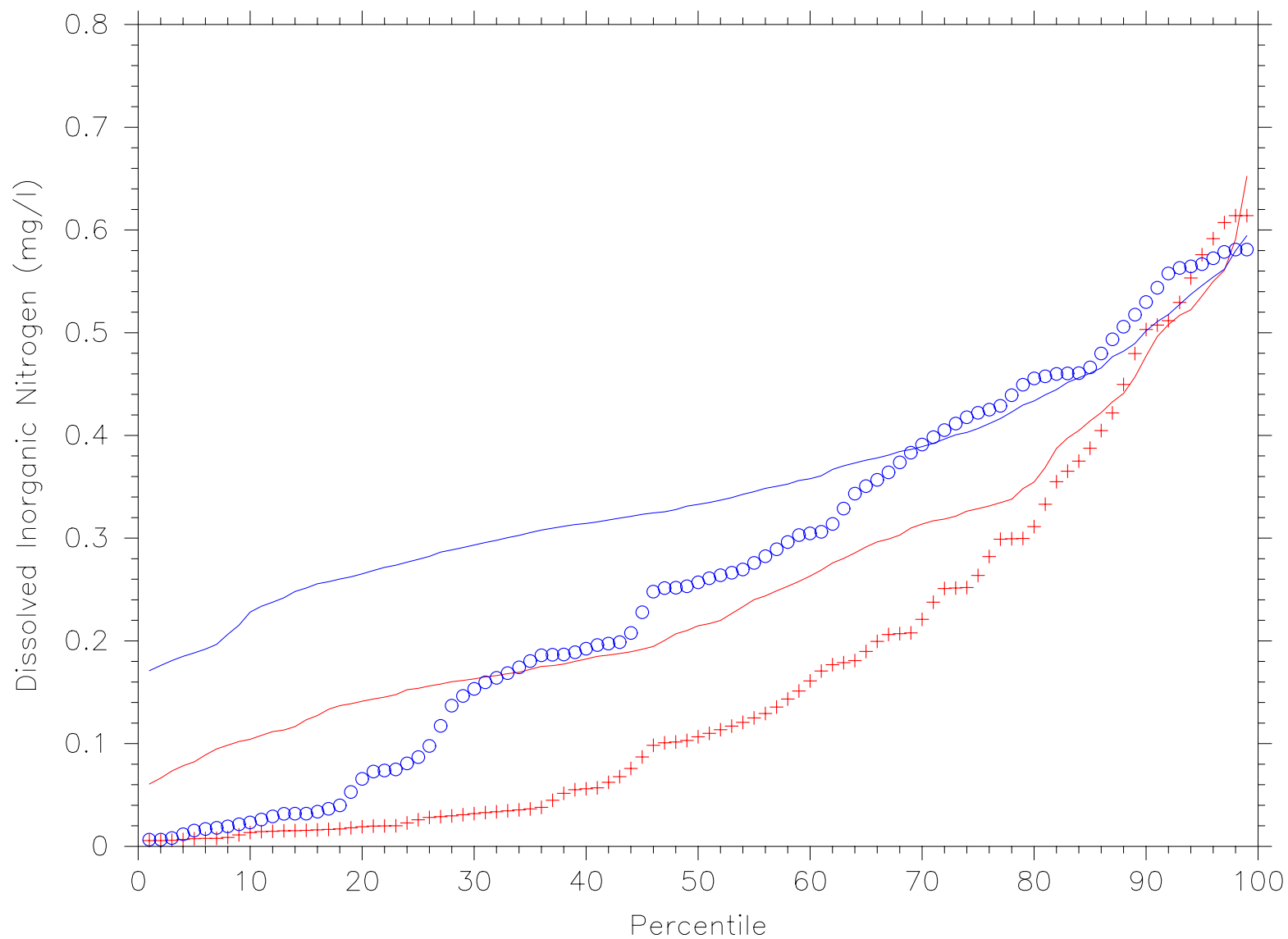
Appendix 5-B

This appendix contains cumulative distribution plots of observed and computed properties (surface and bottom) at CBP long term stations EE1.1, ET4.1, and ET4.2.

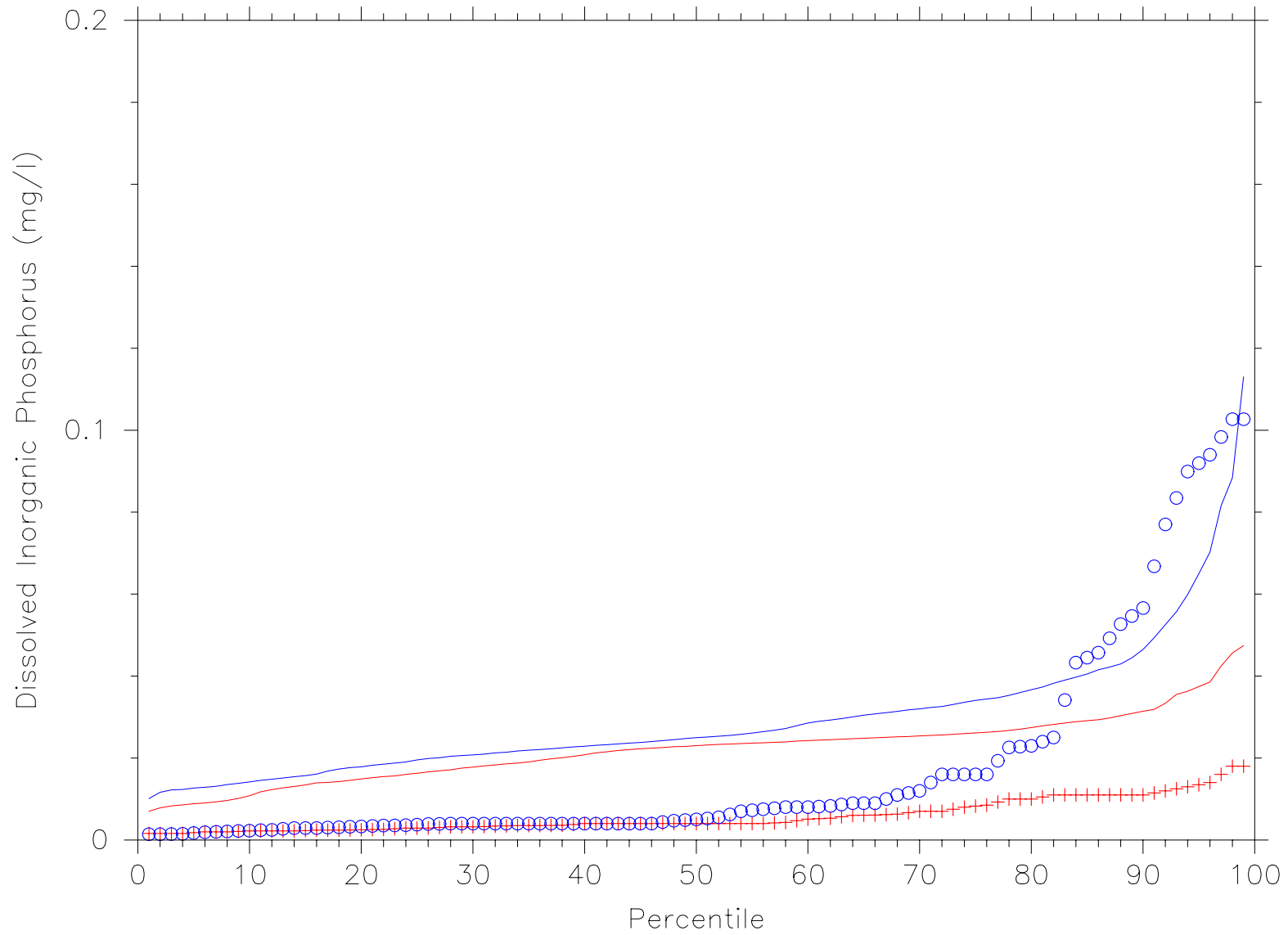
Chlorophyll,EE1.1



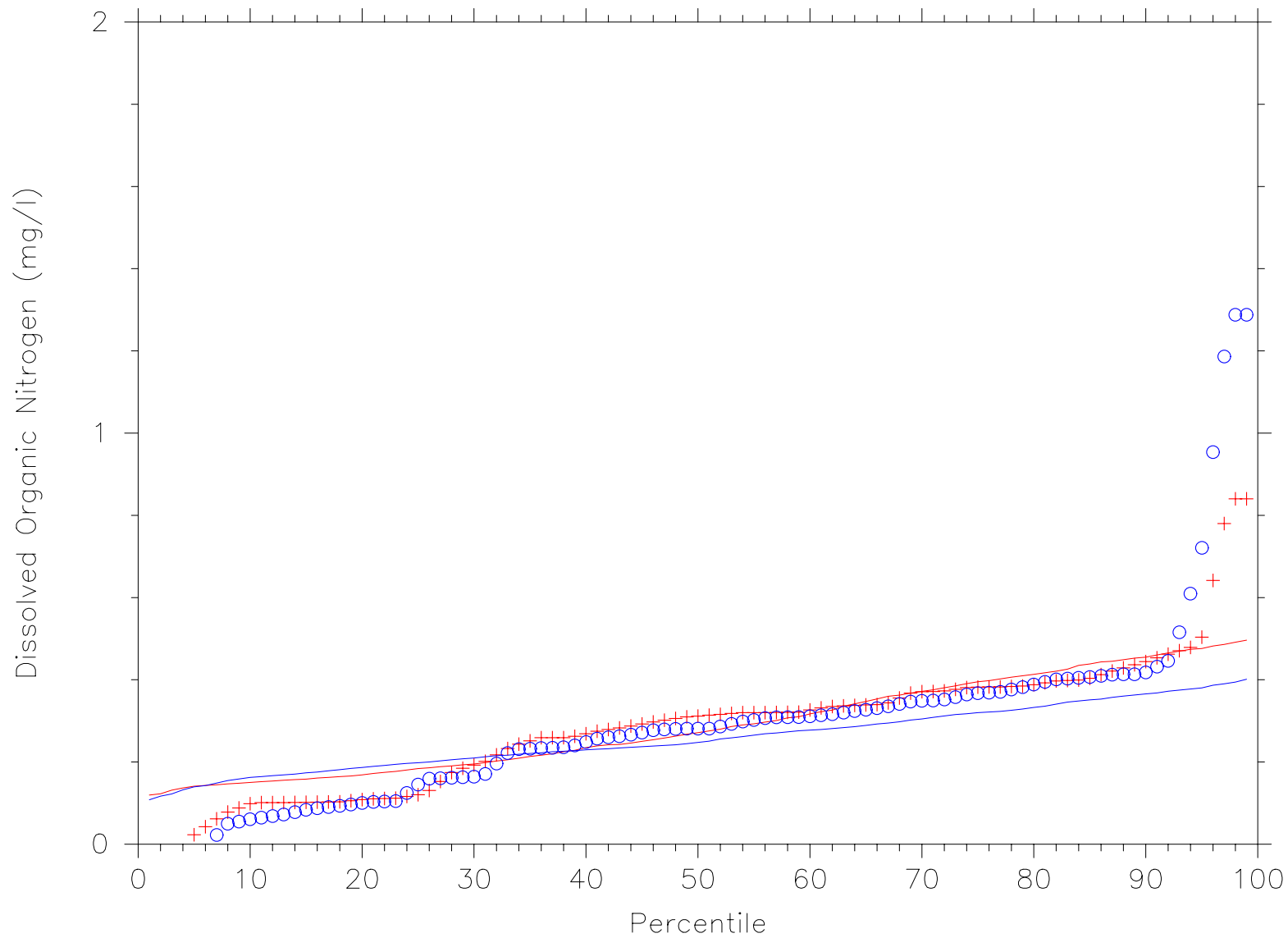
Dissolved Inorganic Nitrogen,EE1.1



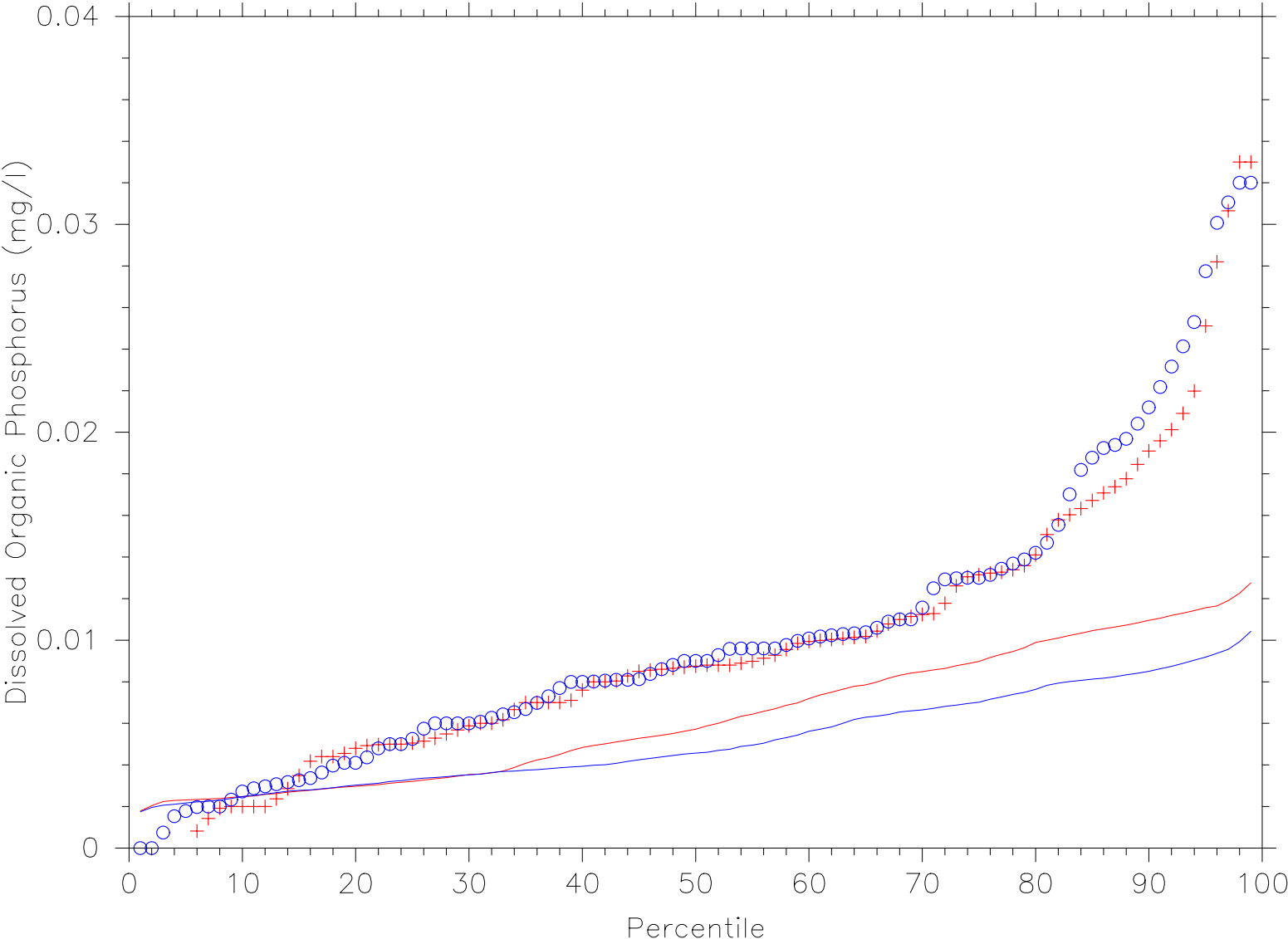
Dissolved Inorganic Phosphorus,EE1.1



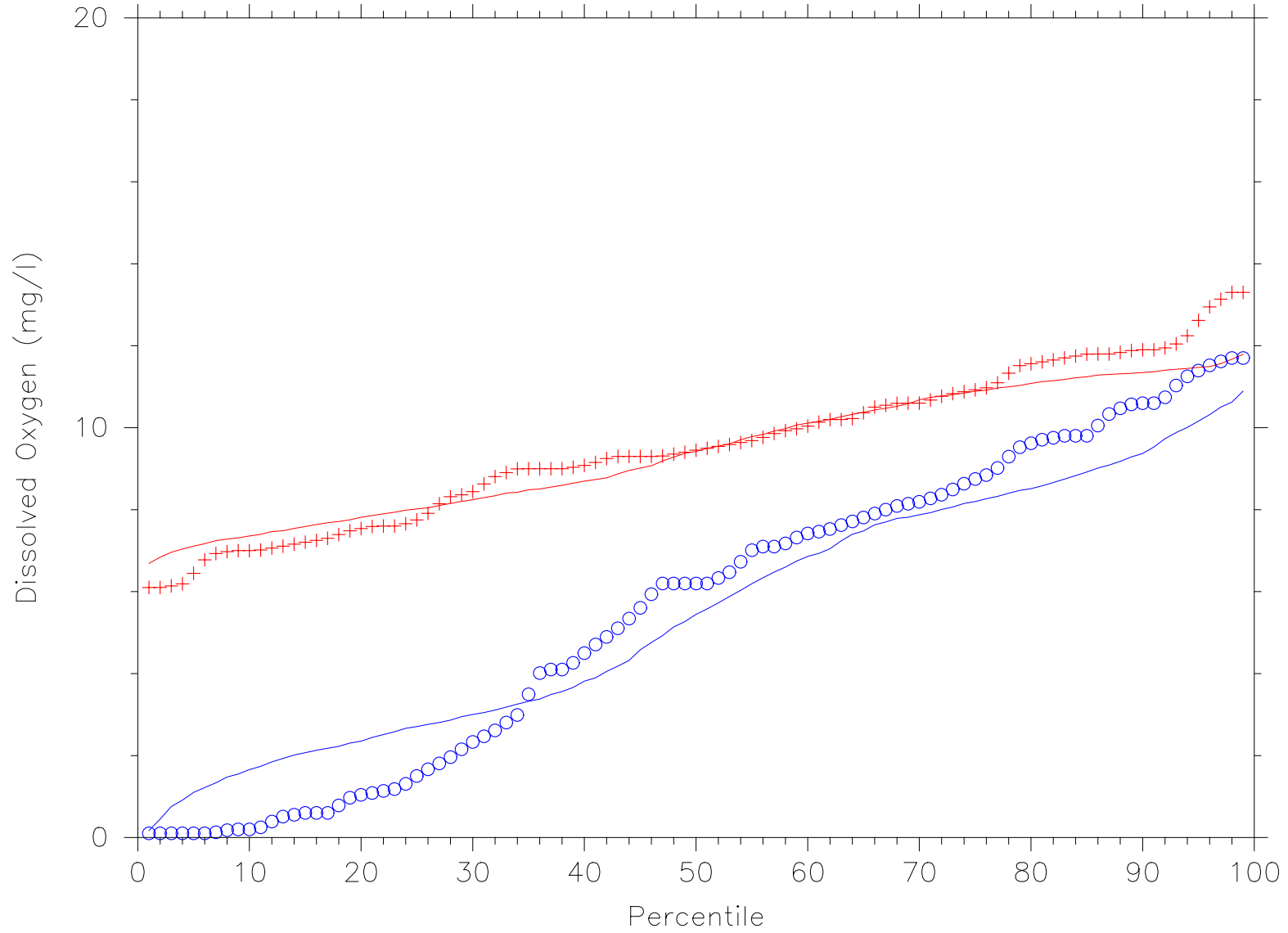
Dissolved Organic Nitrogen,EE1.1



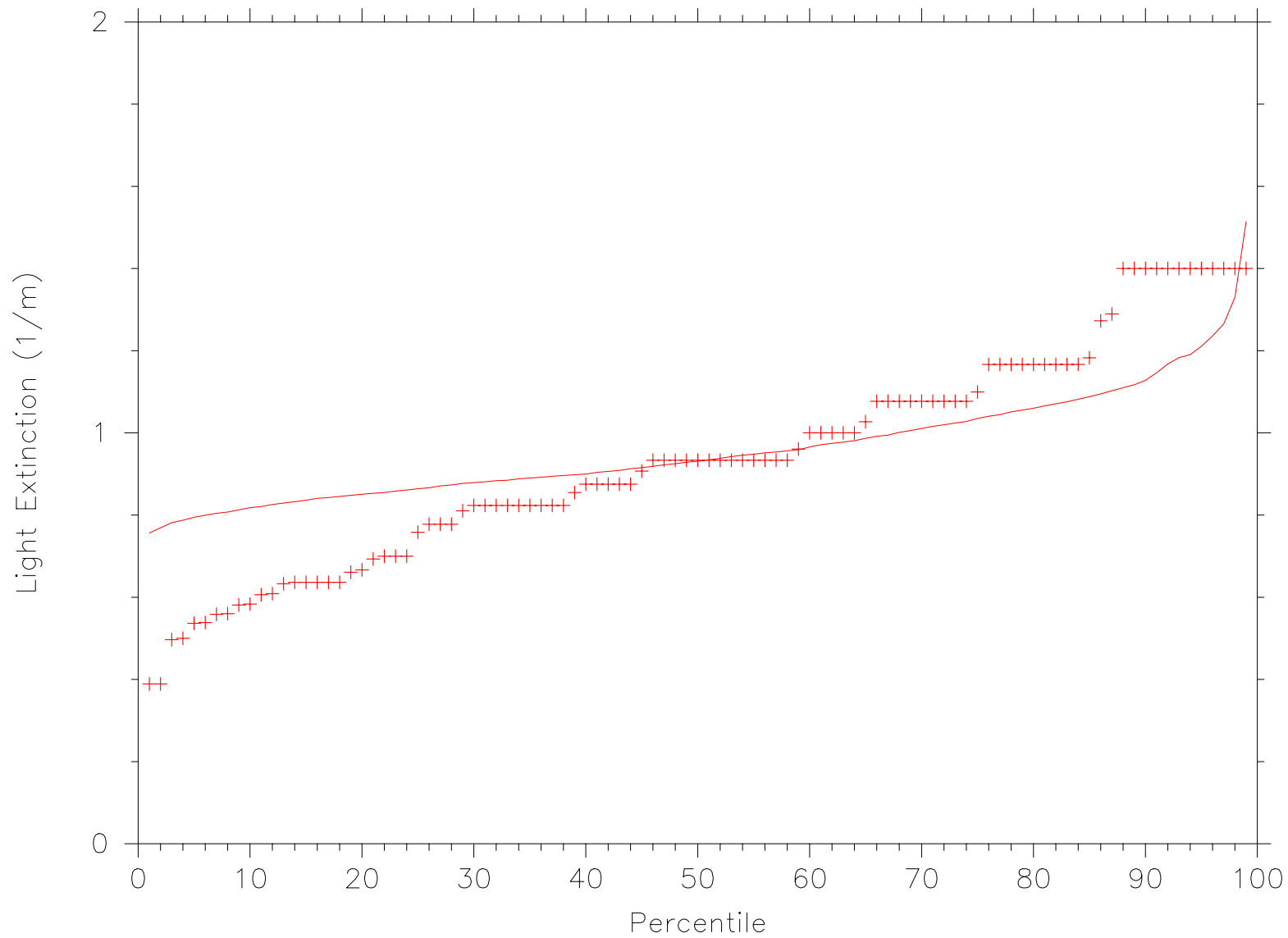
Dissolved Organic Phosphorus,EE1.1



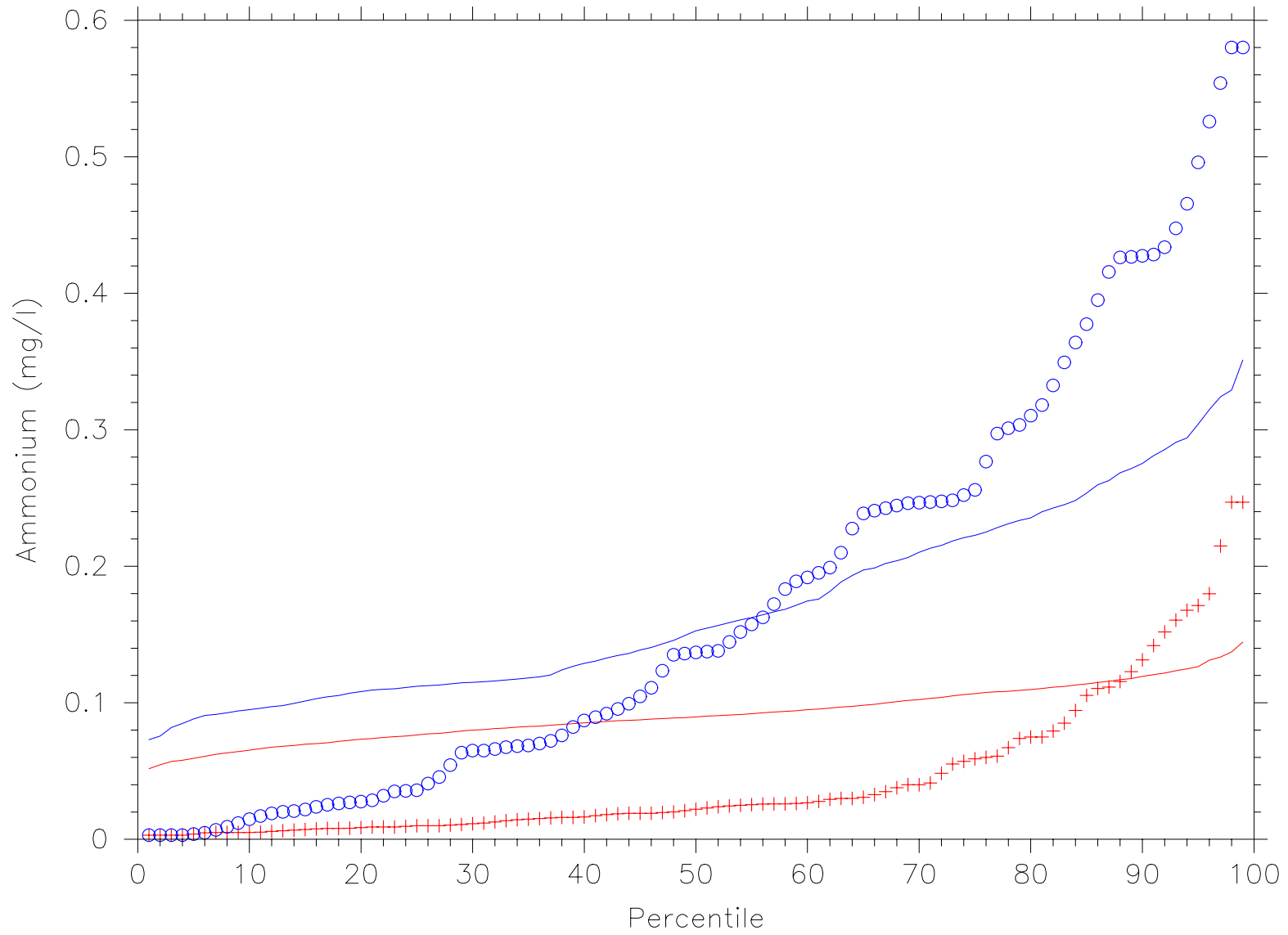
Dissolved Oxygen,EE1.1



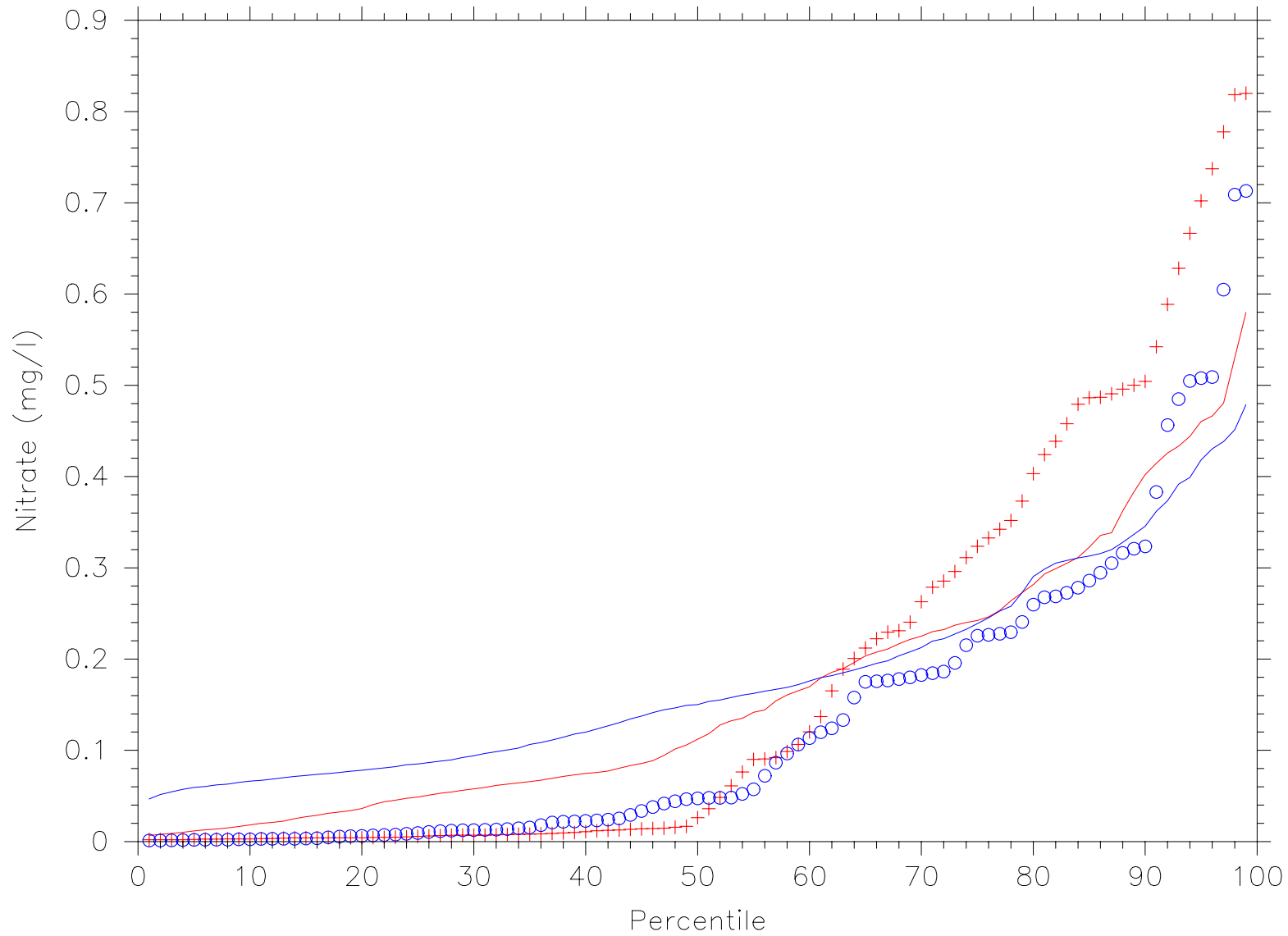
Light Extinction,EE1.1



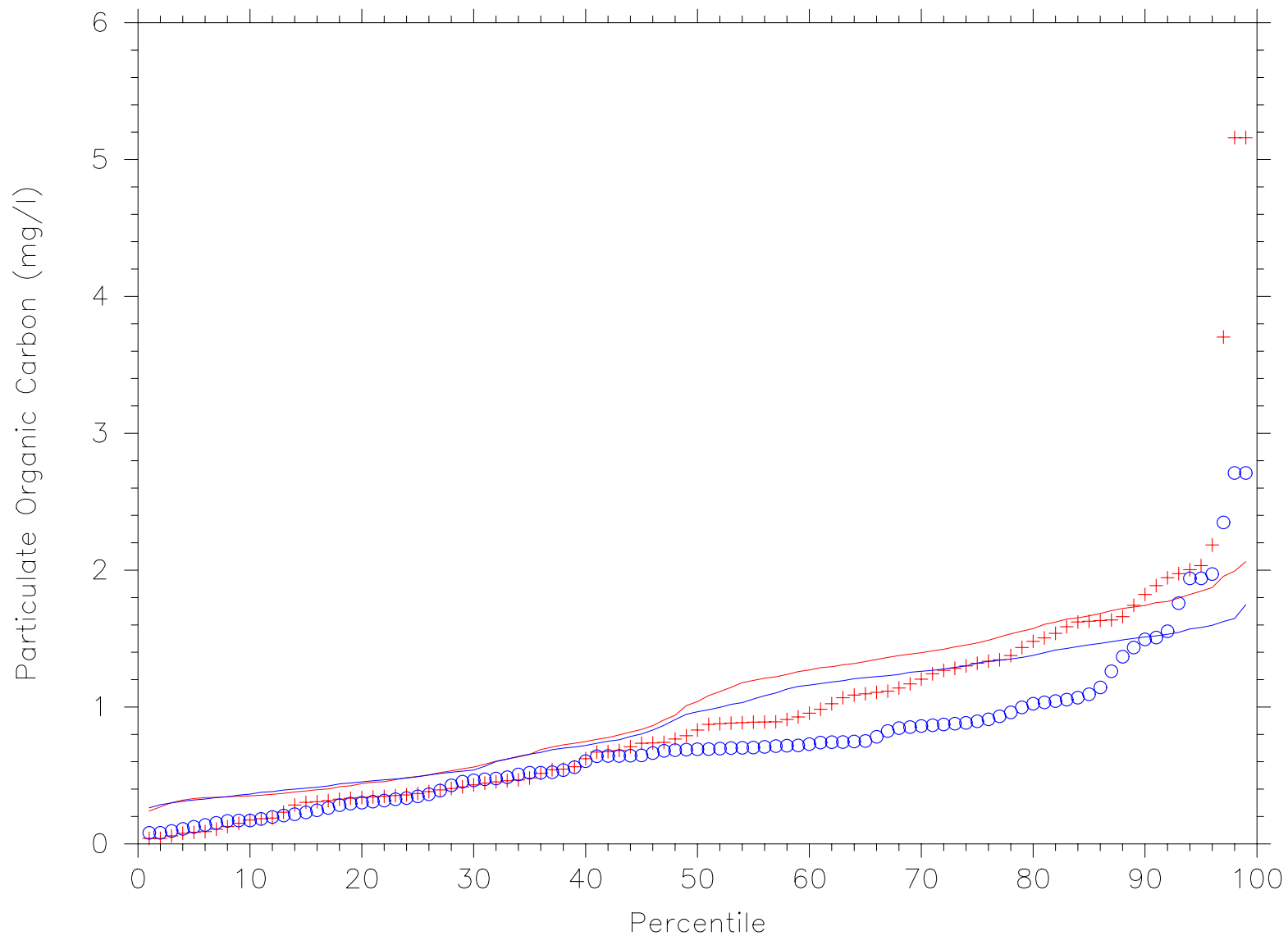
Ammonium,EE1.1



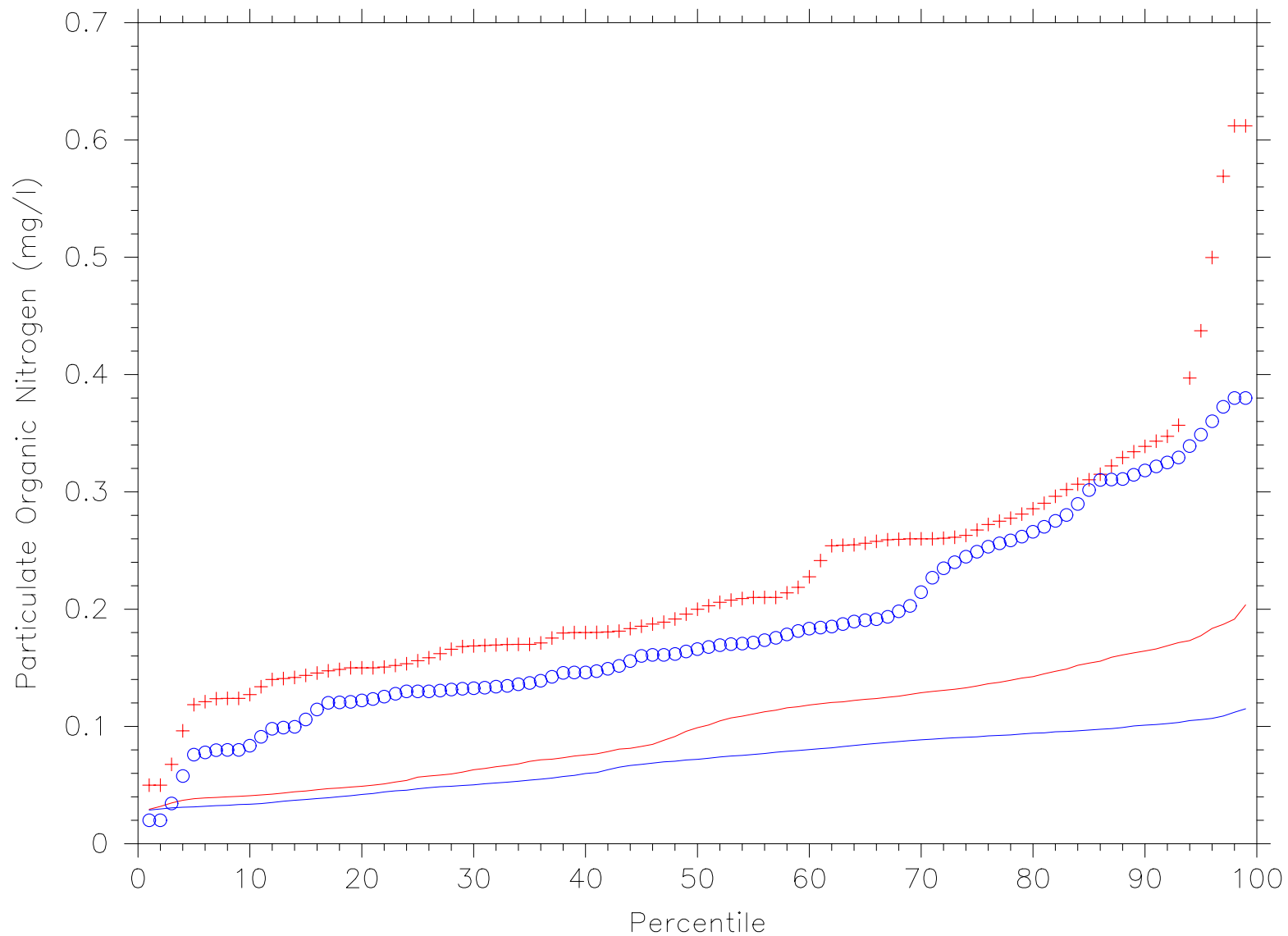
Nitrate,EE1.1



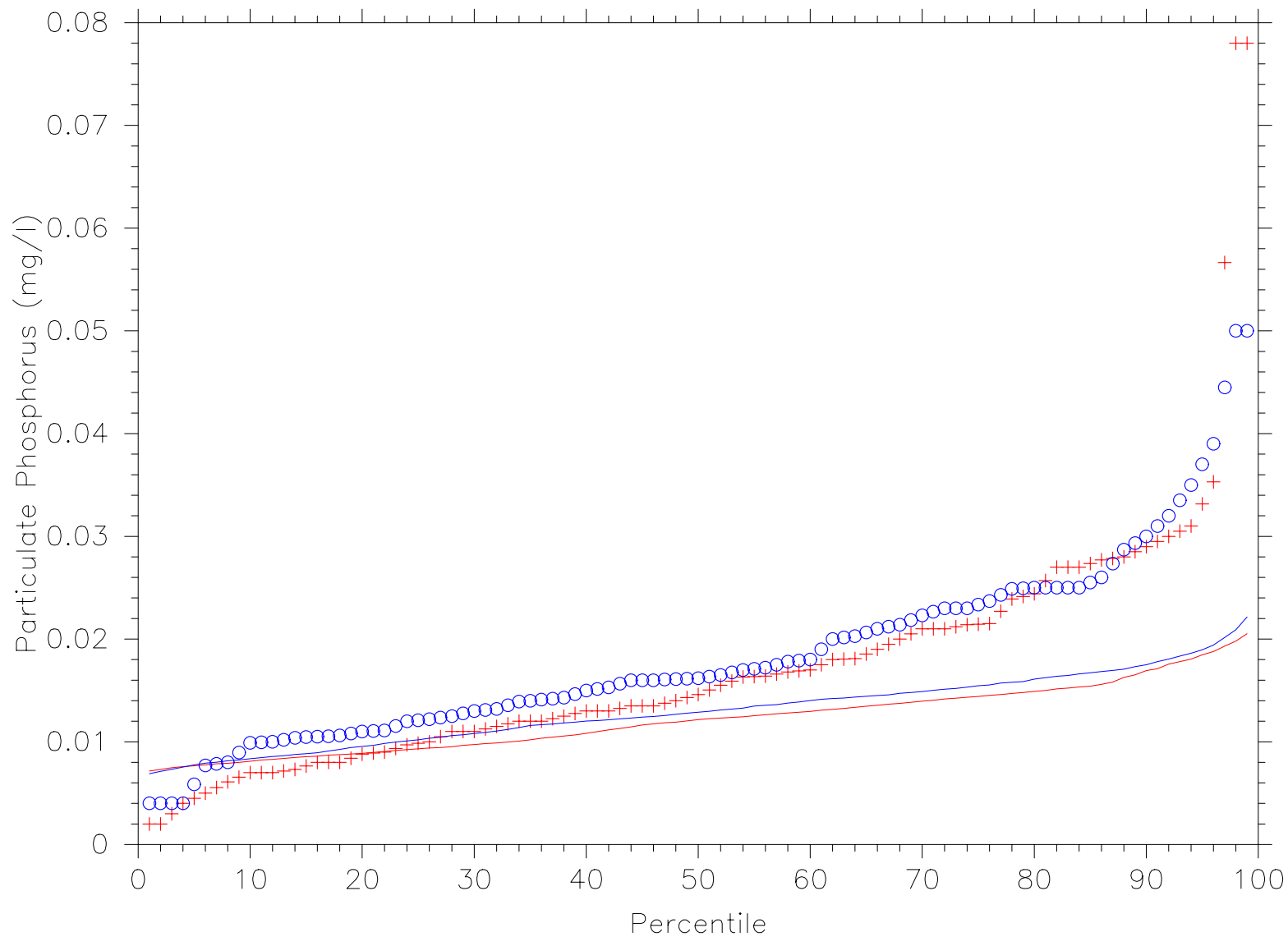
Particulate Organic Carbon,EE1.1



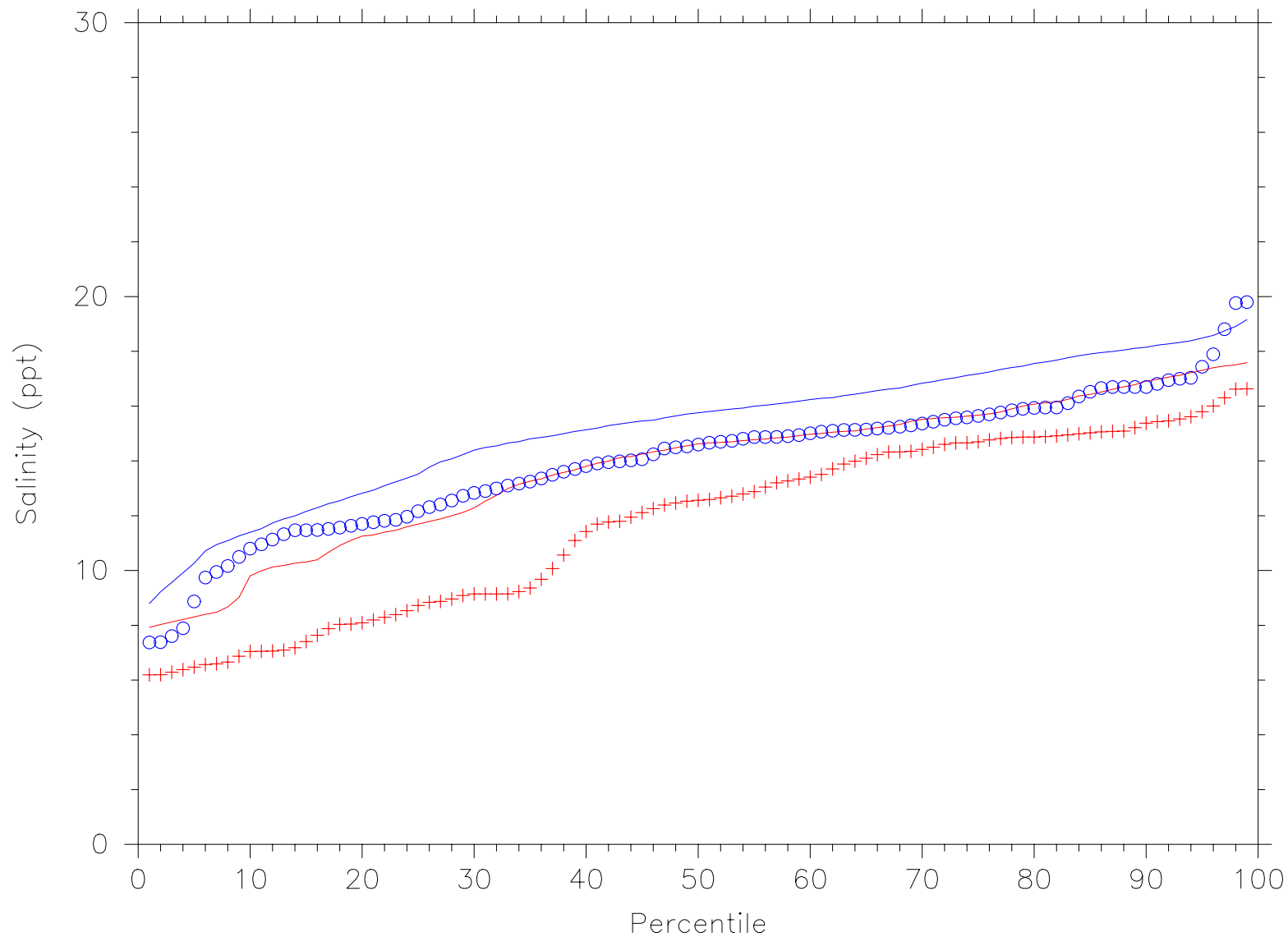
Particulate Organic Nitrogen,EE1.1



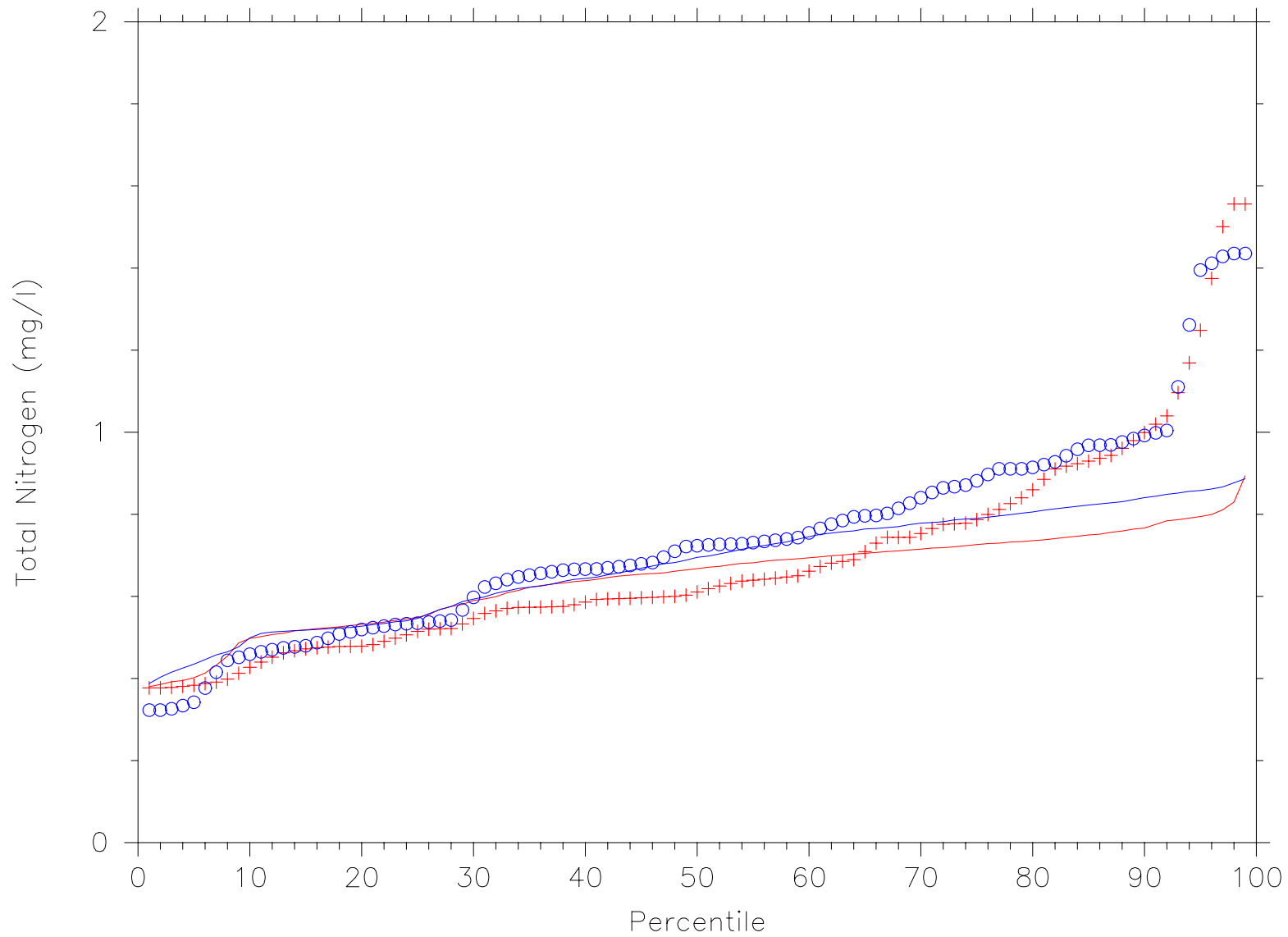
Particulate Phosphorus,EE1.1



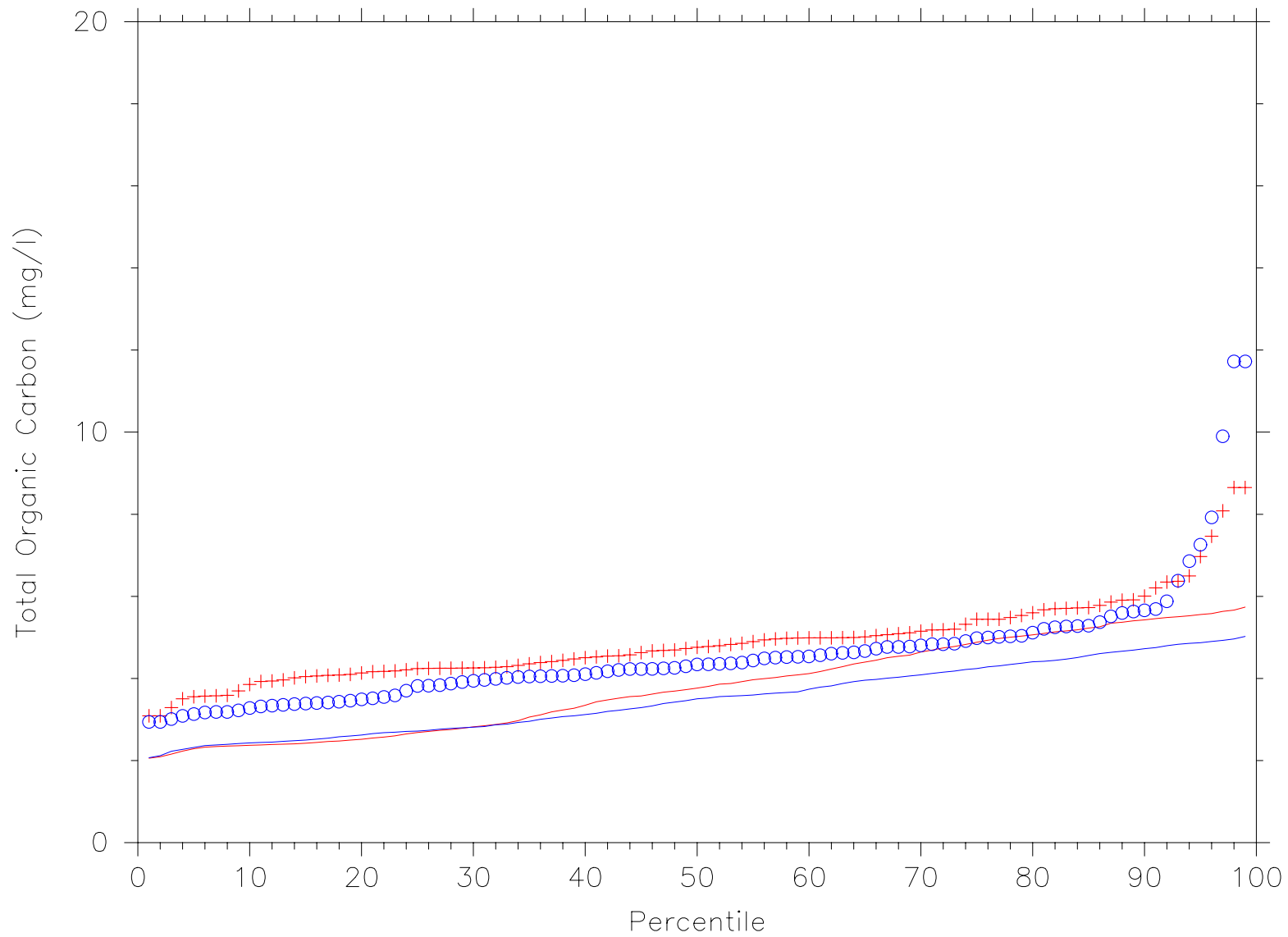
Salinity,EE1.1



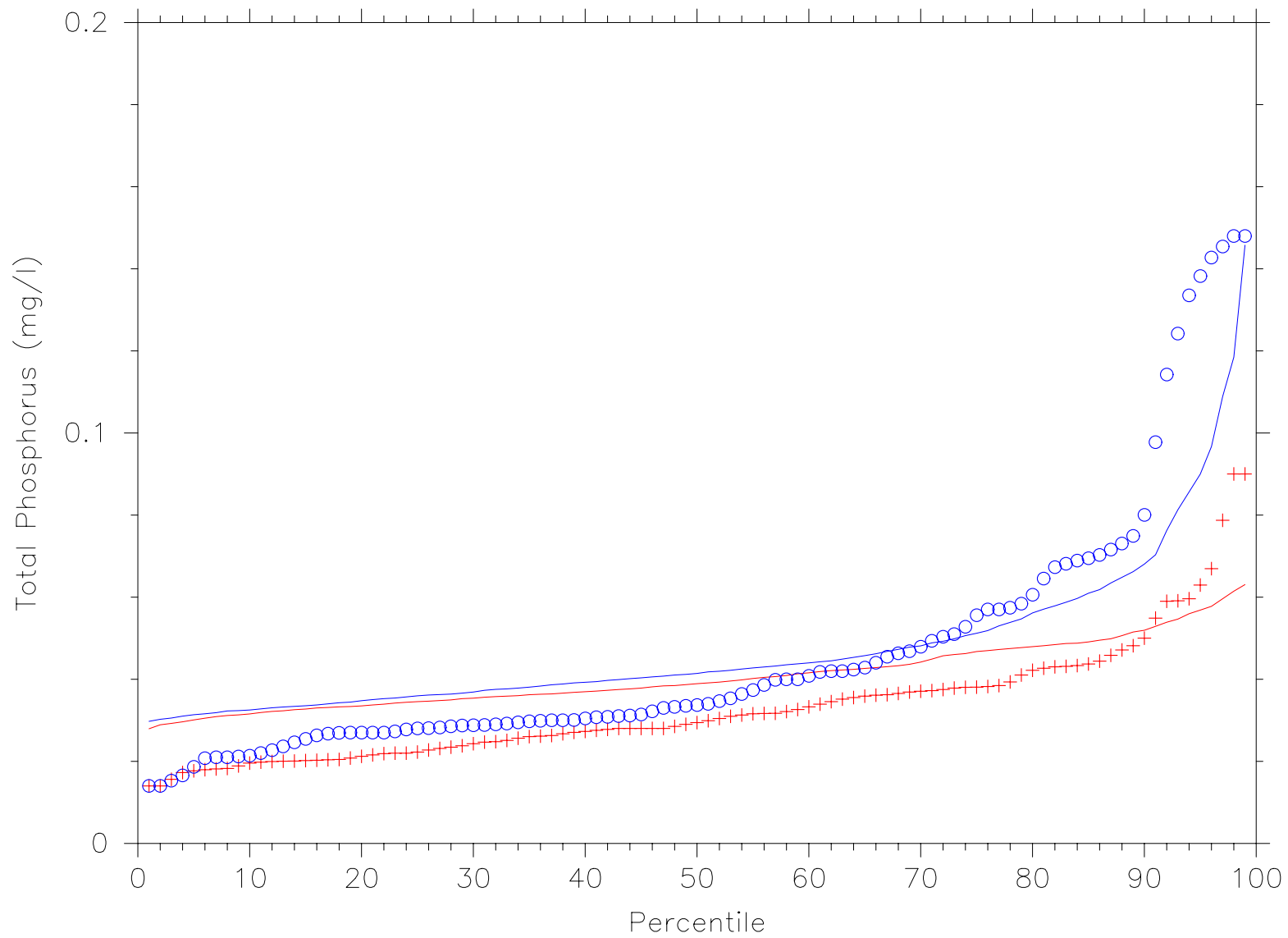
Total Nitrogen,EE1.1



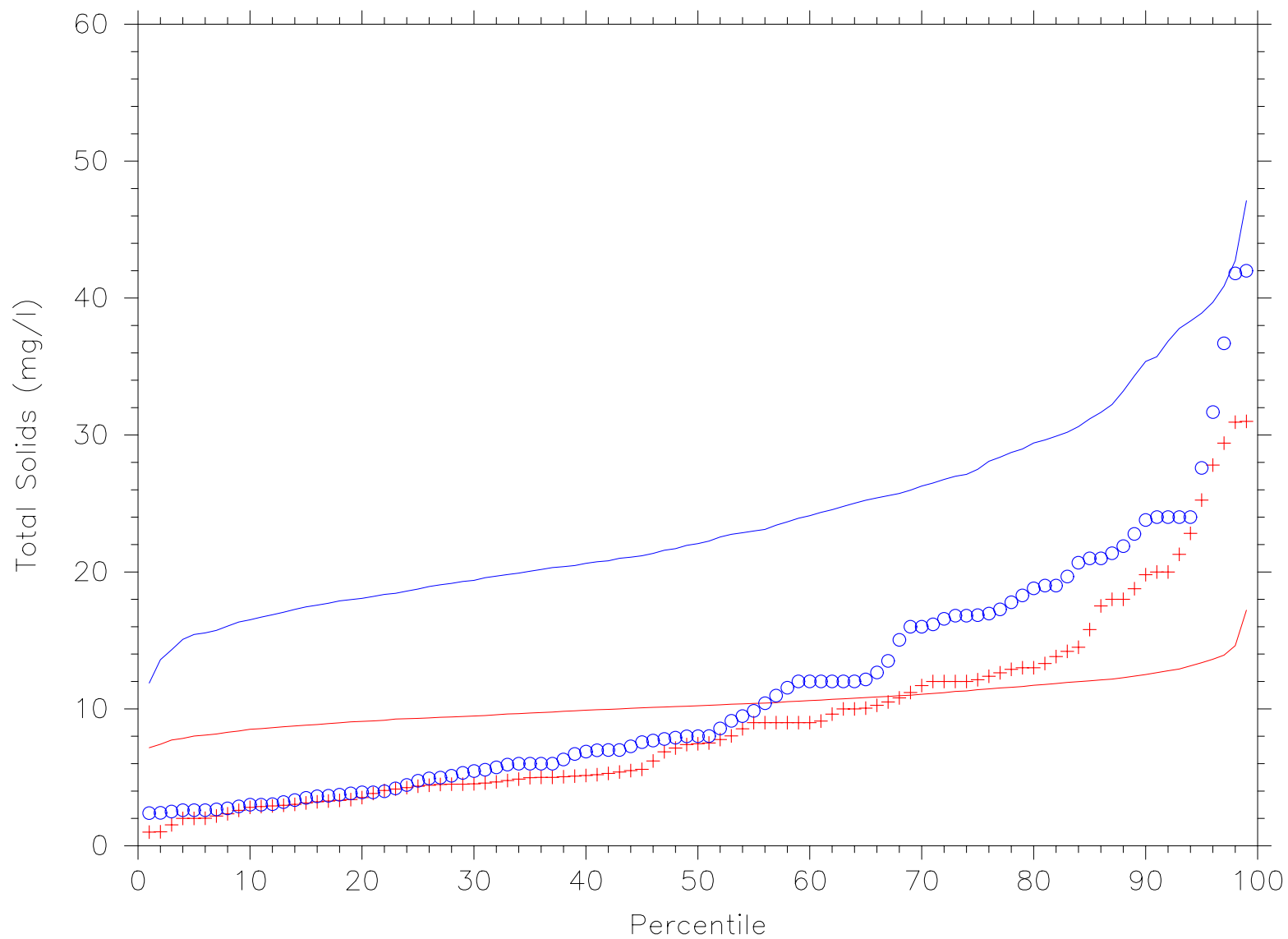
Total Organic Carbon,EE1.1



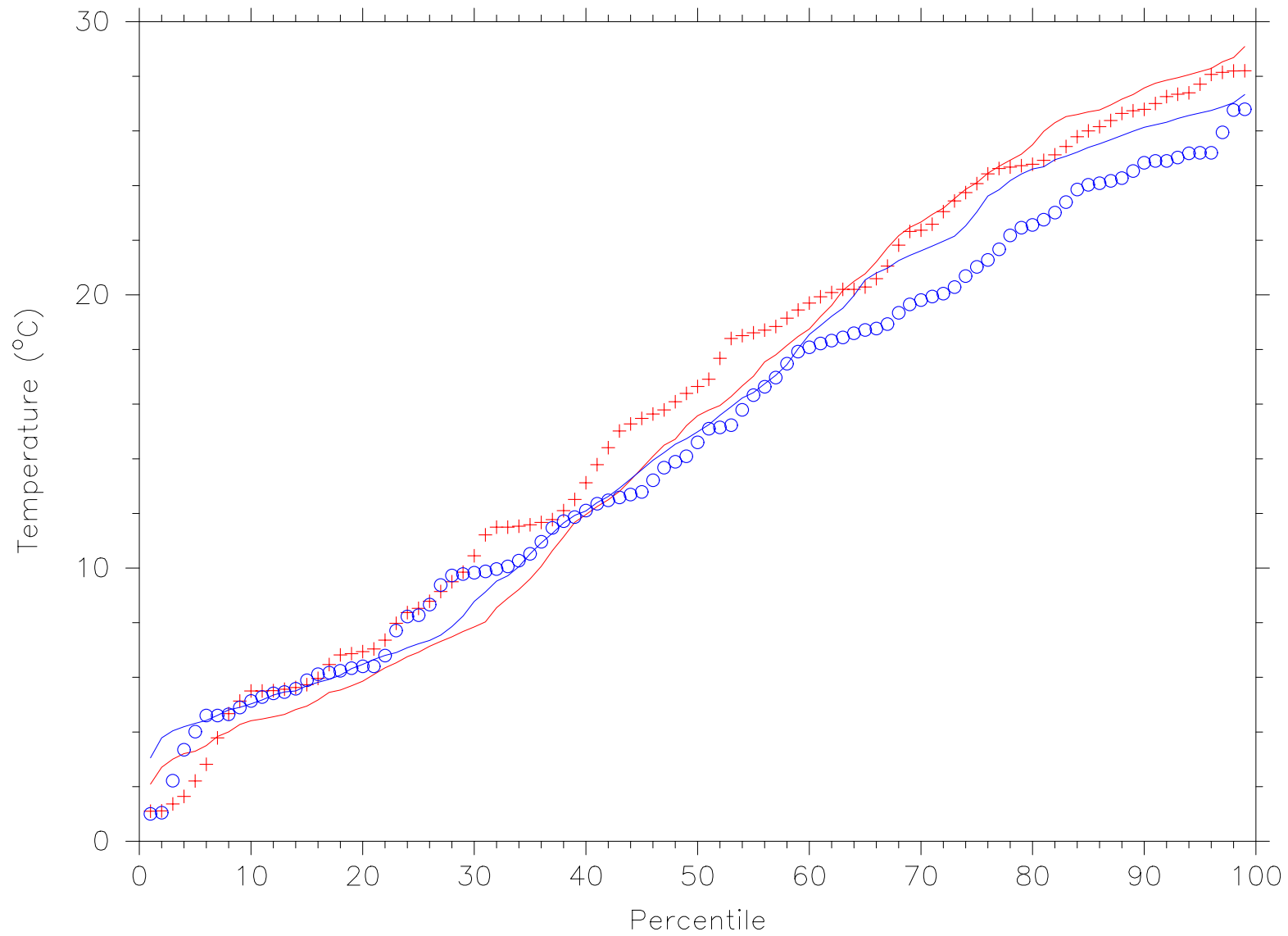
Total Phosphorus,EE1.1



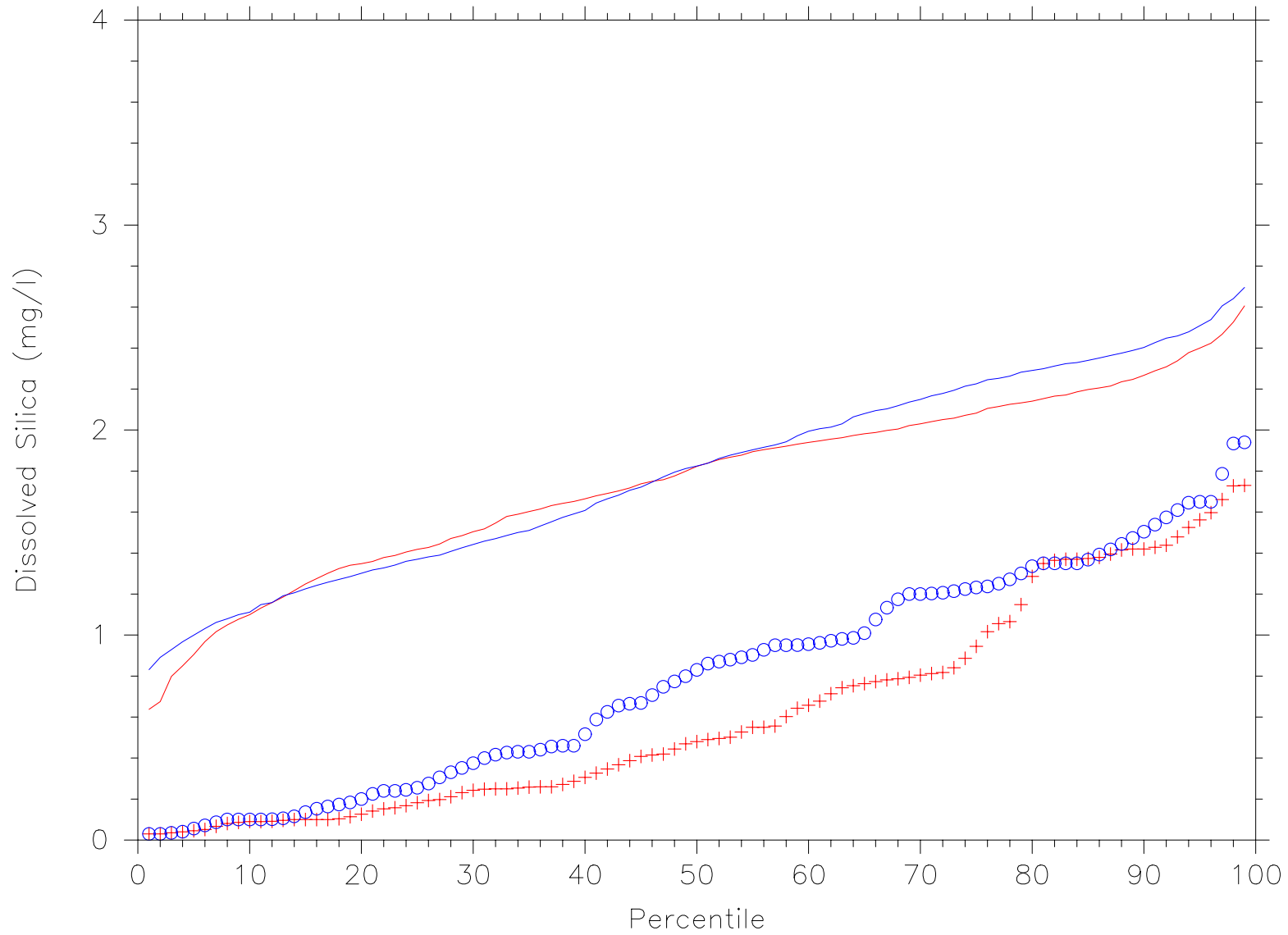
Total Solids,EE1.1



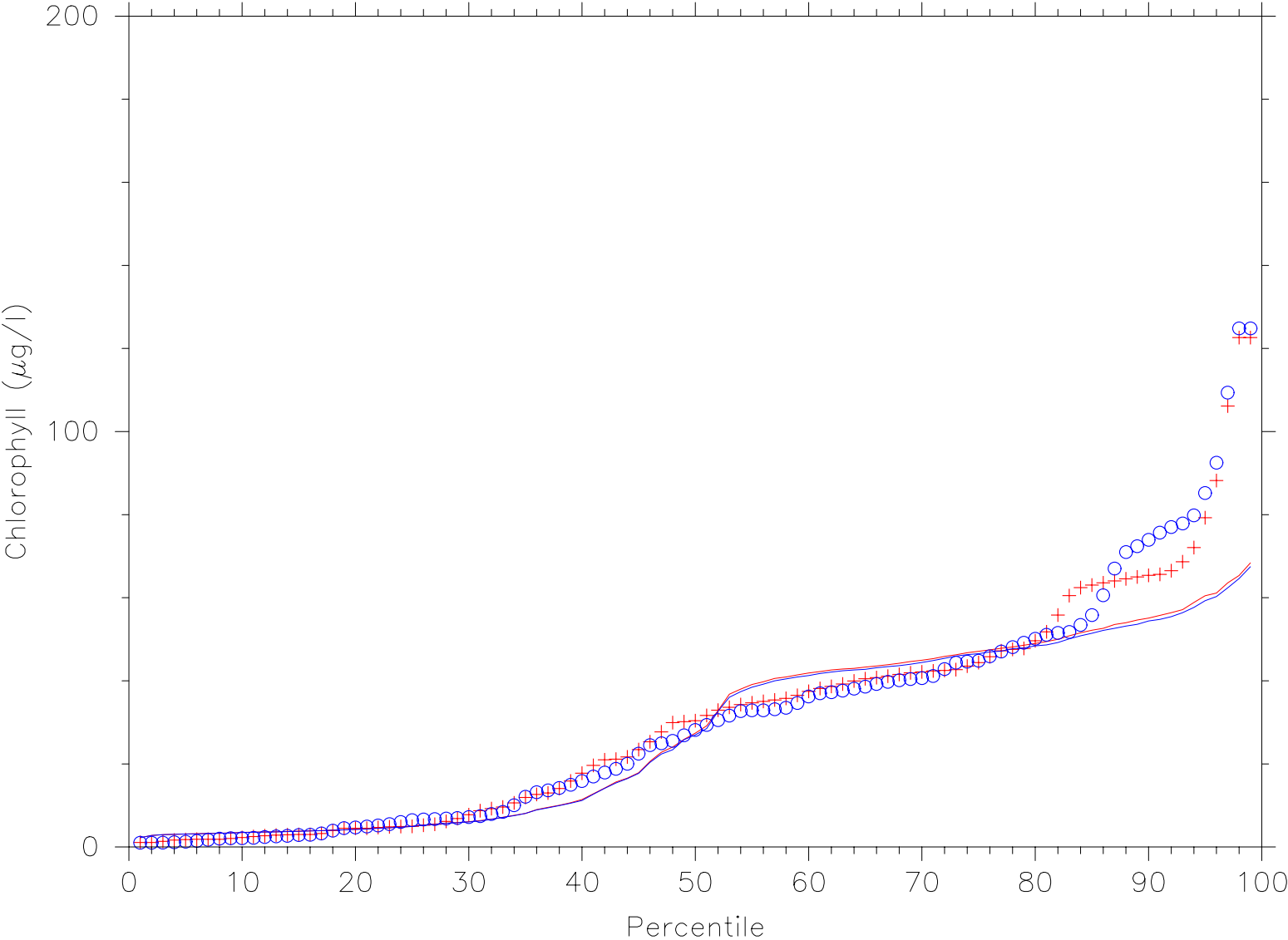
Temperature,EE1.1



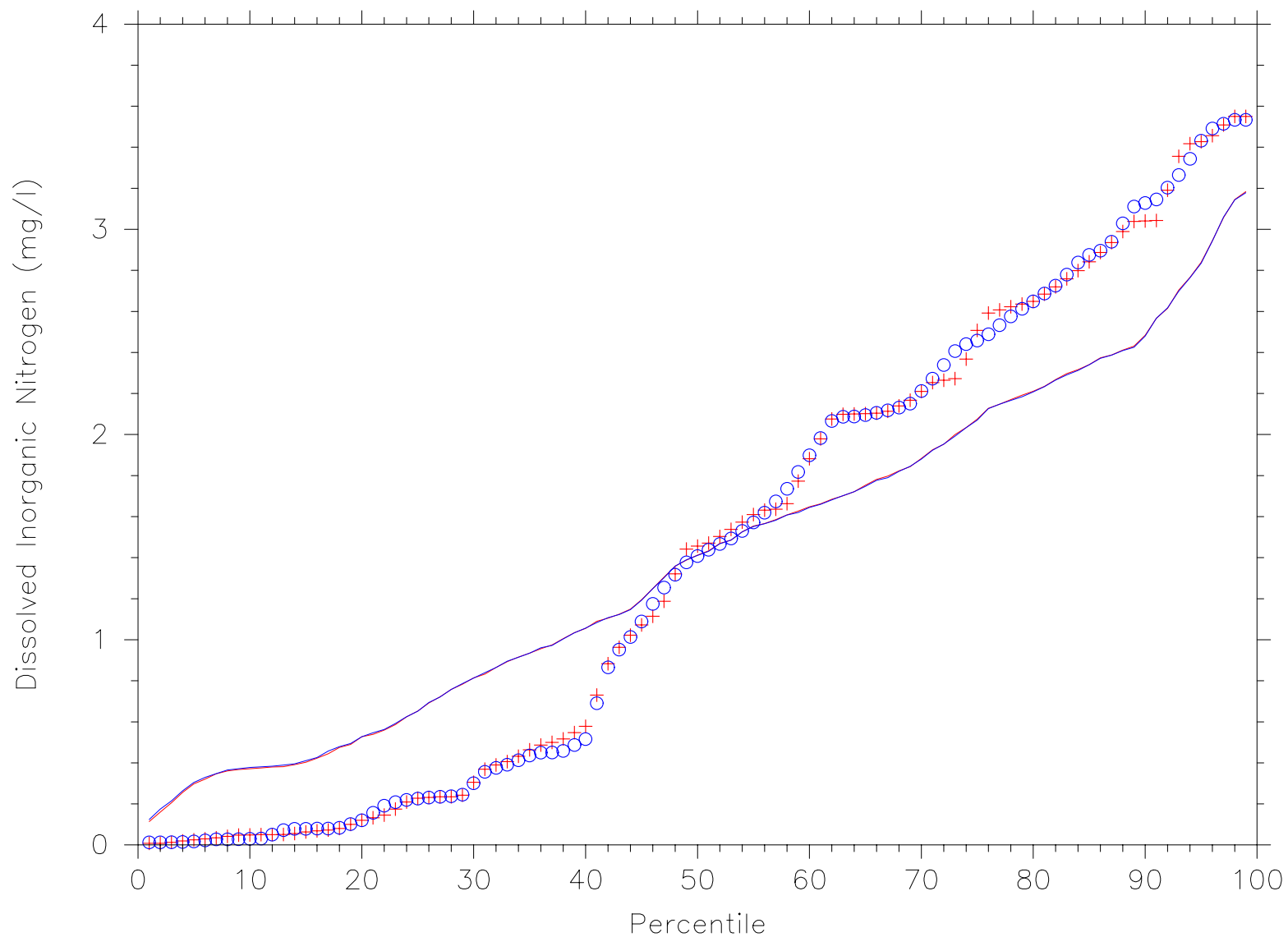
Dissolved Silica,EE1.1



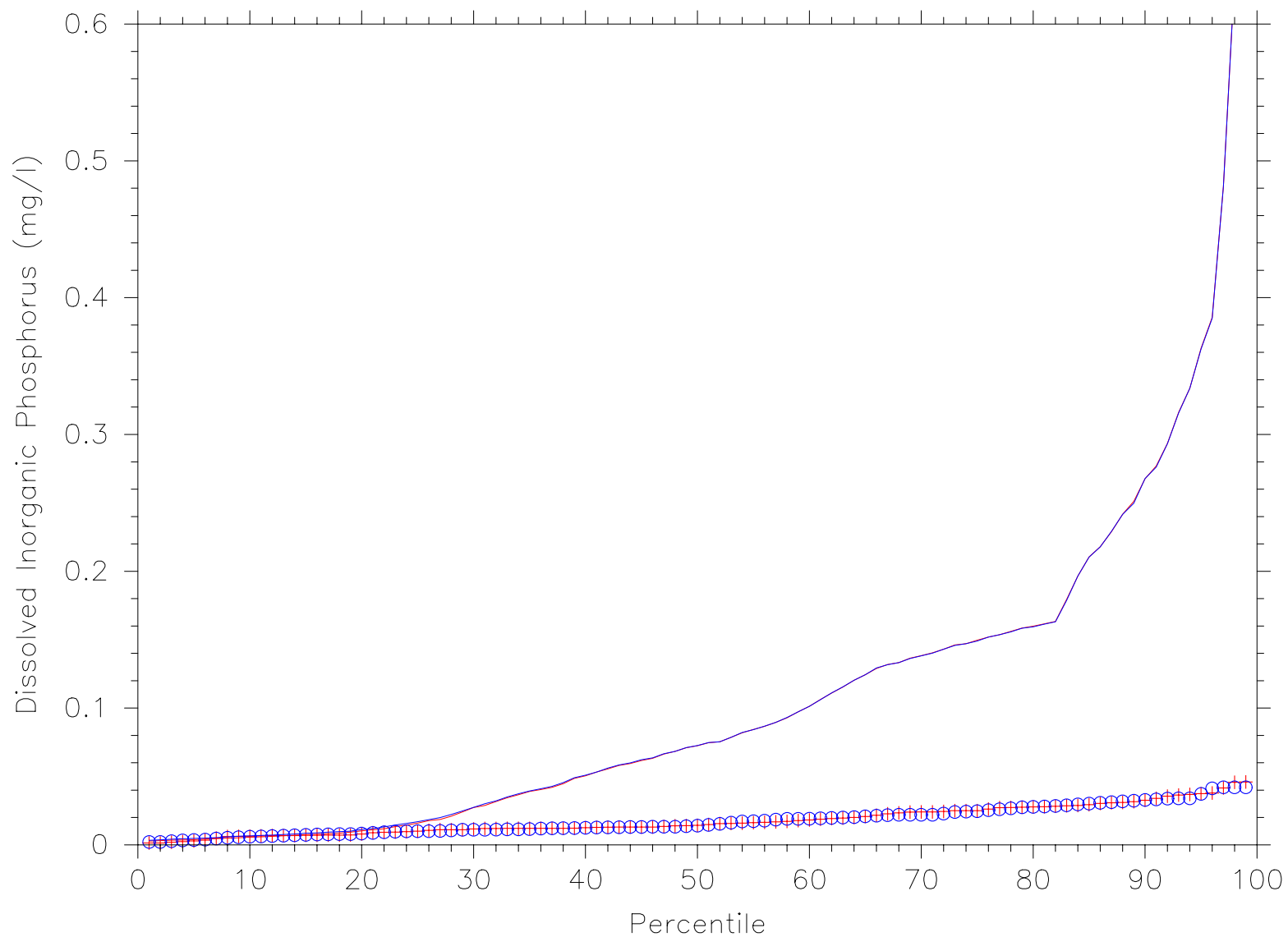
Chlorophyll,ET4.1



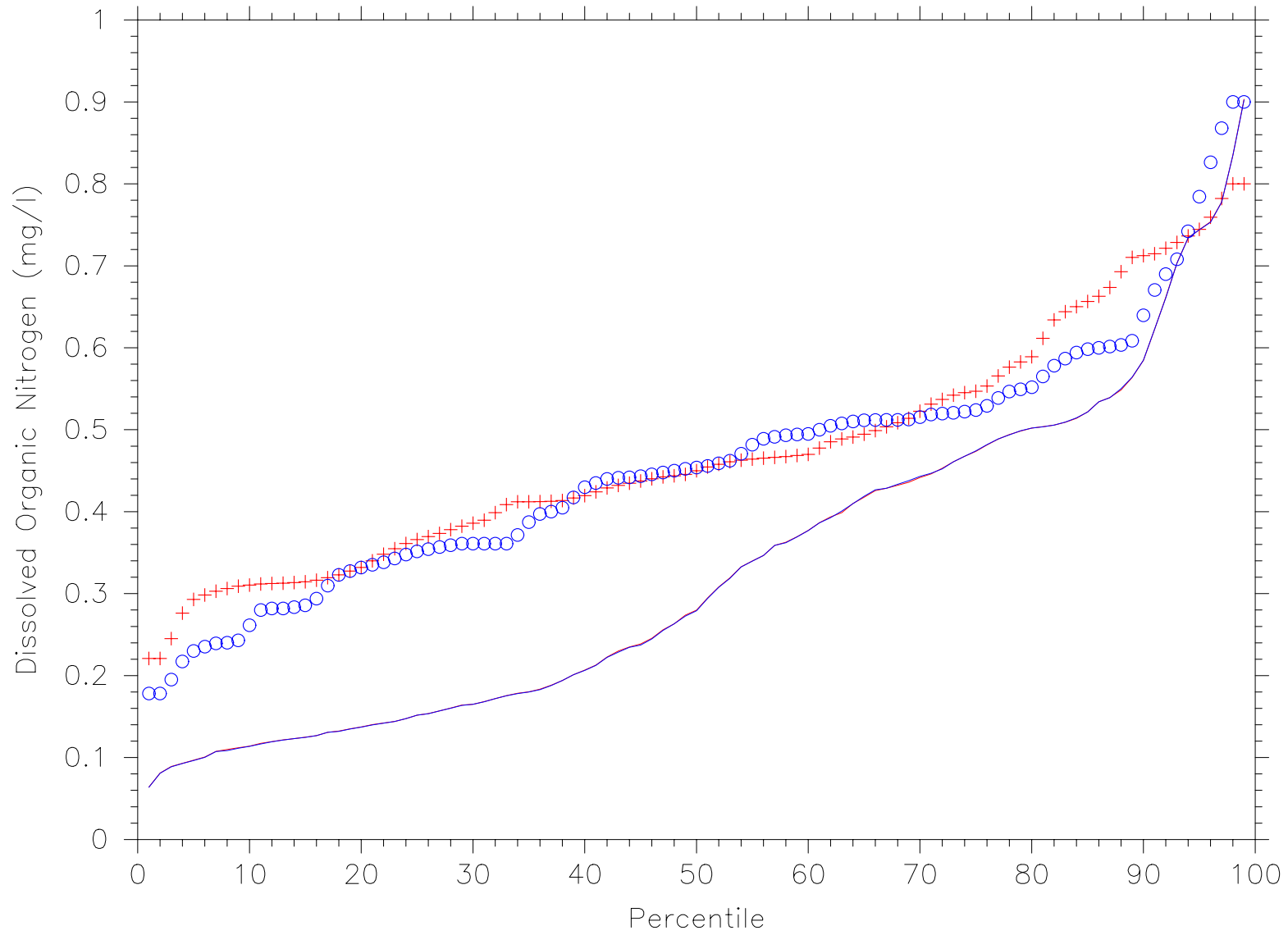
Dissolved Inorganic Nitrogen,ET4.1



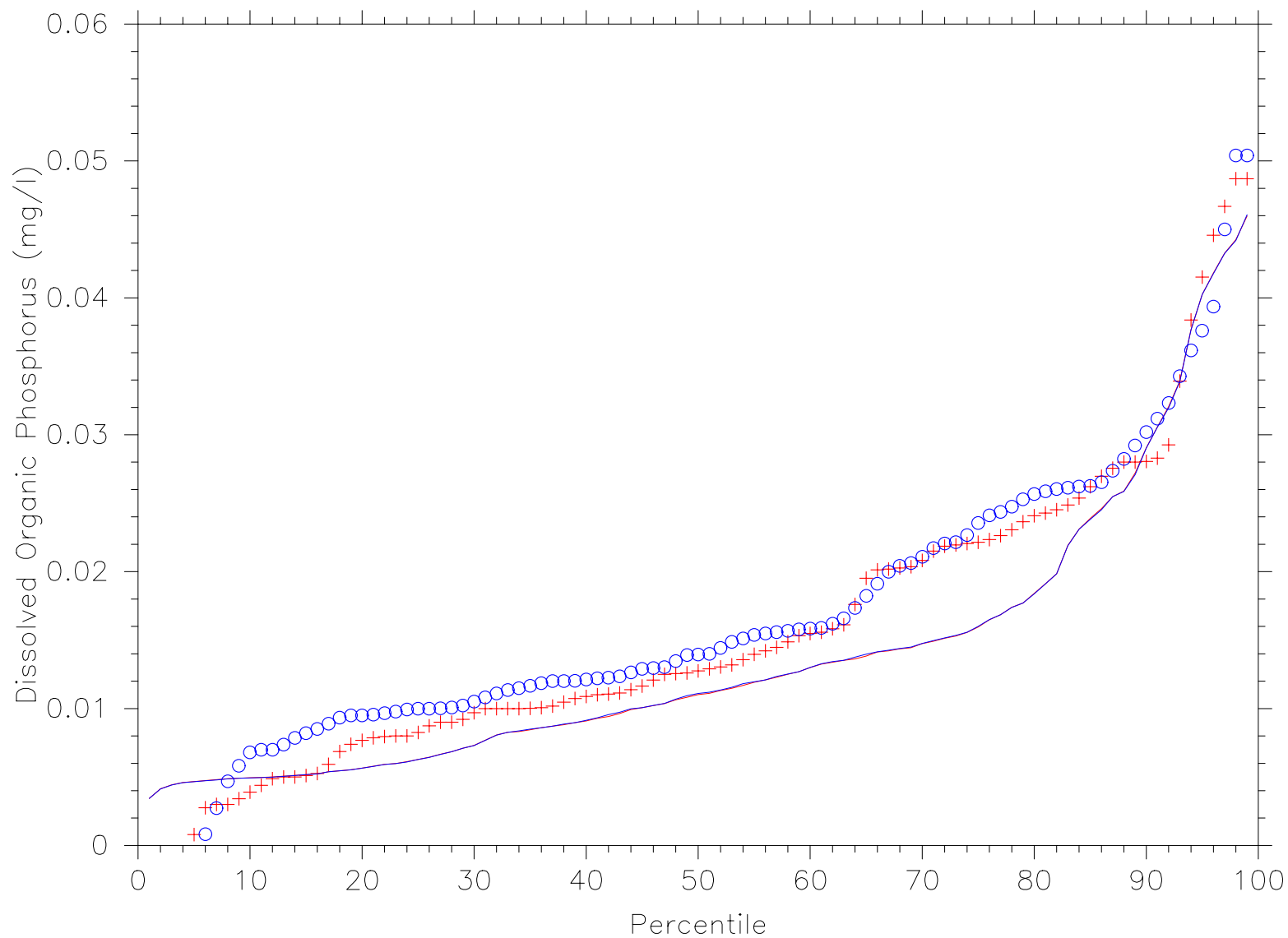
Dissolved Inorganic Phosphorus,ET4.1



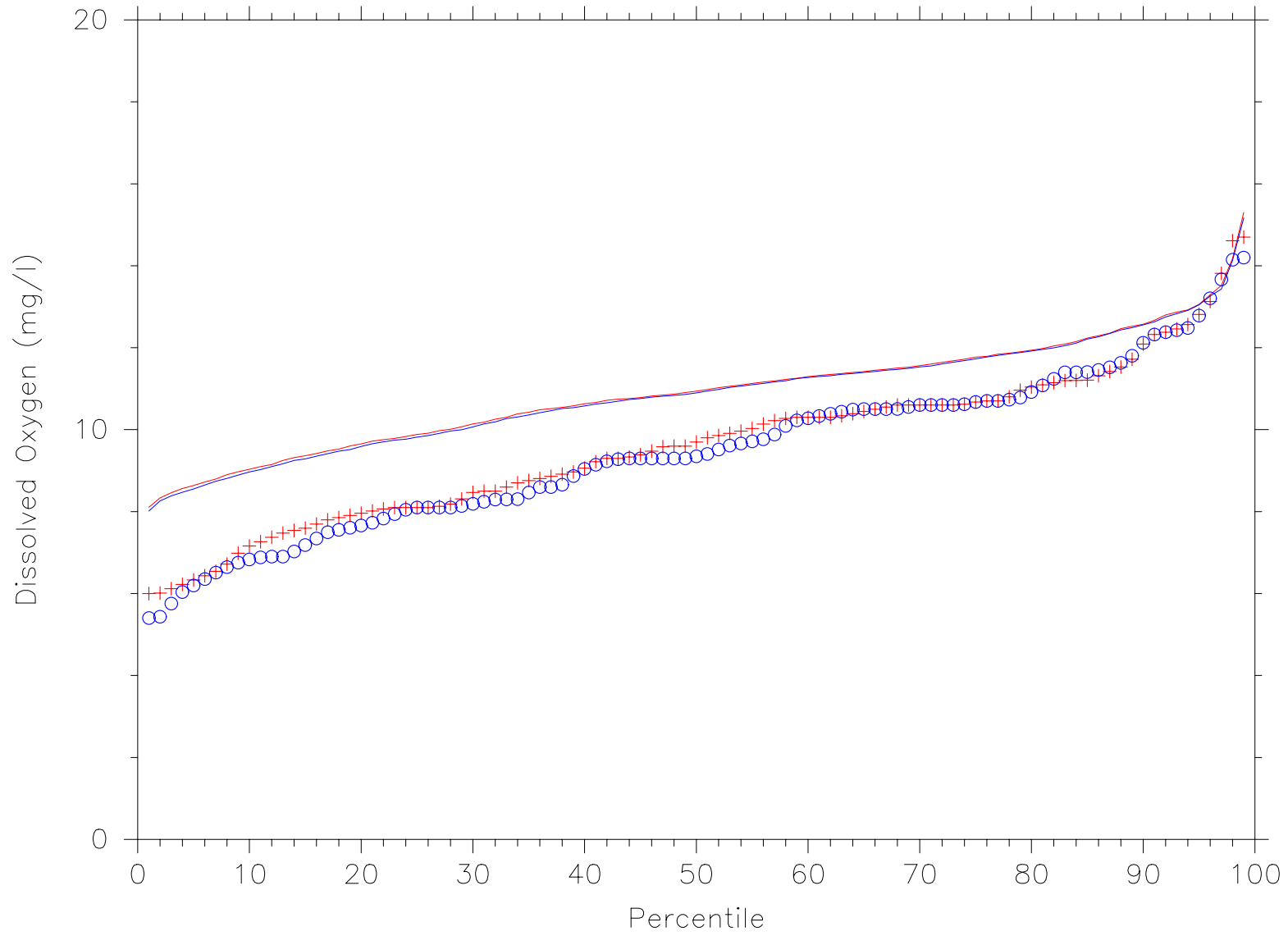
Dissolved Organic Nitrogen,ET4.1



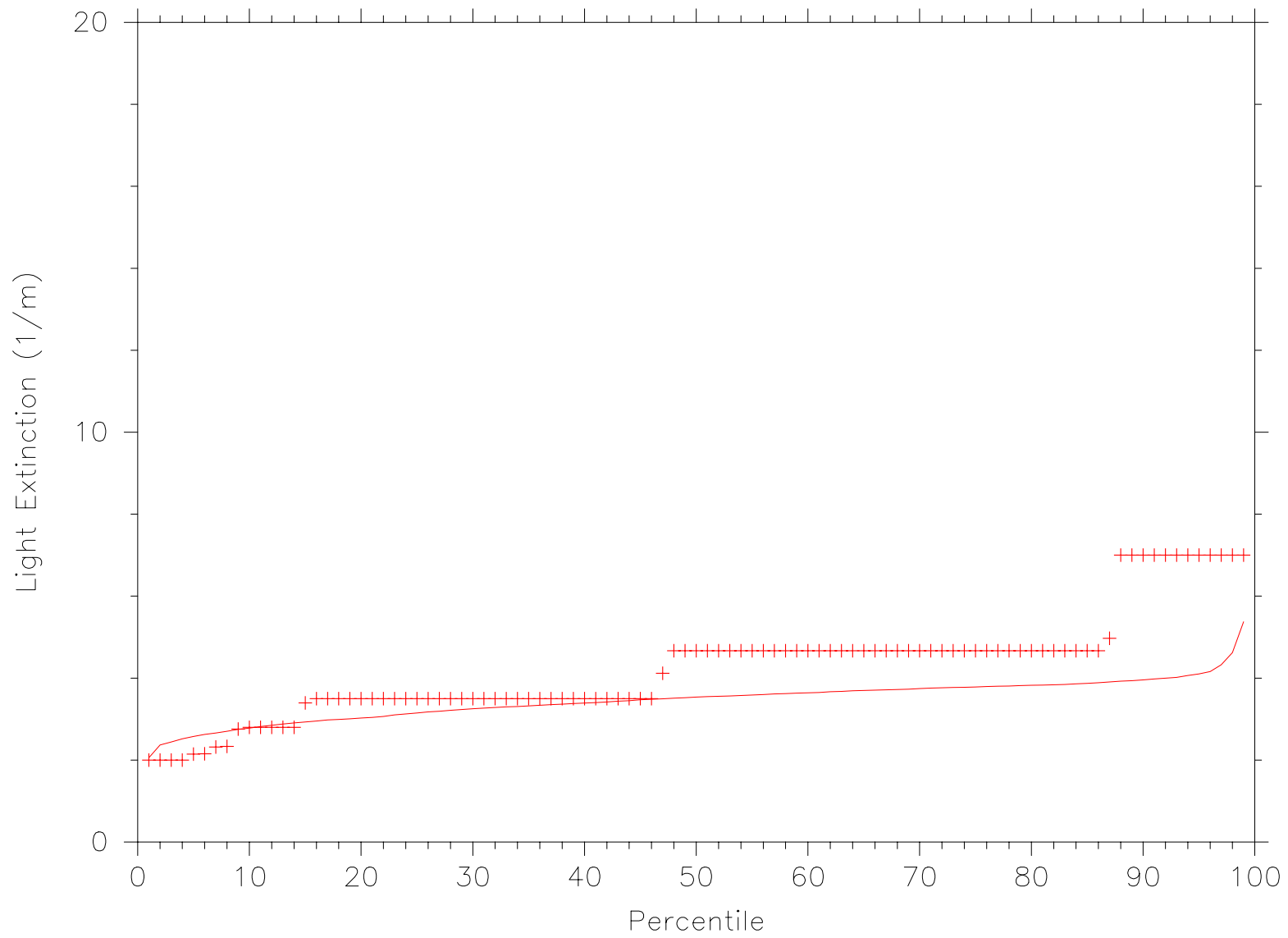
Dissolved Organic Phosphorus,ET4.1



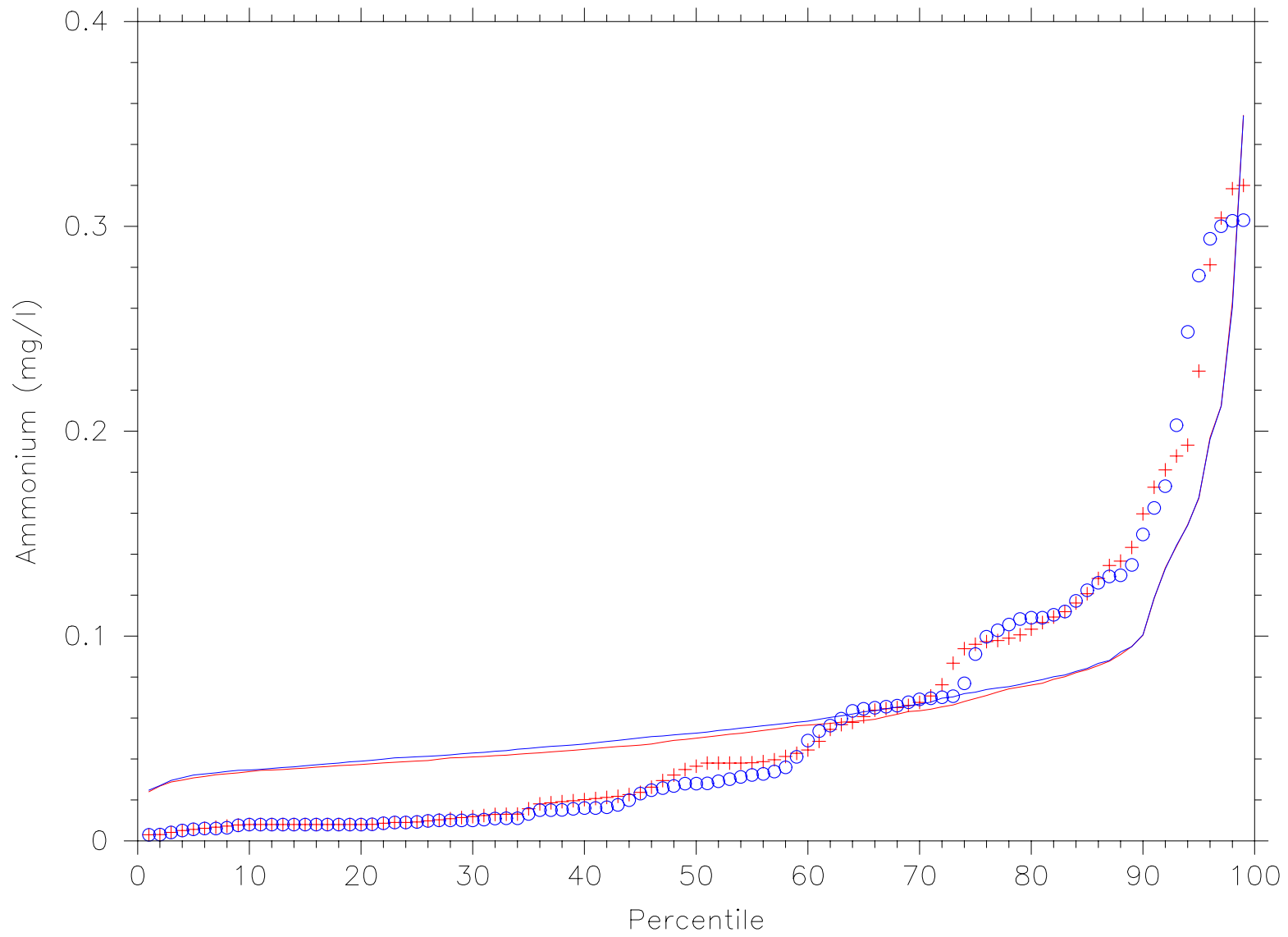
Dissolved Oxygen,ET4.1



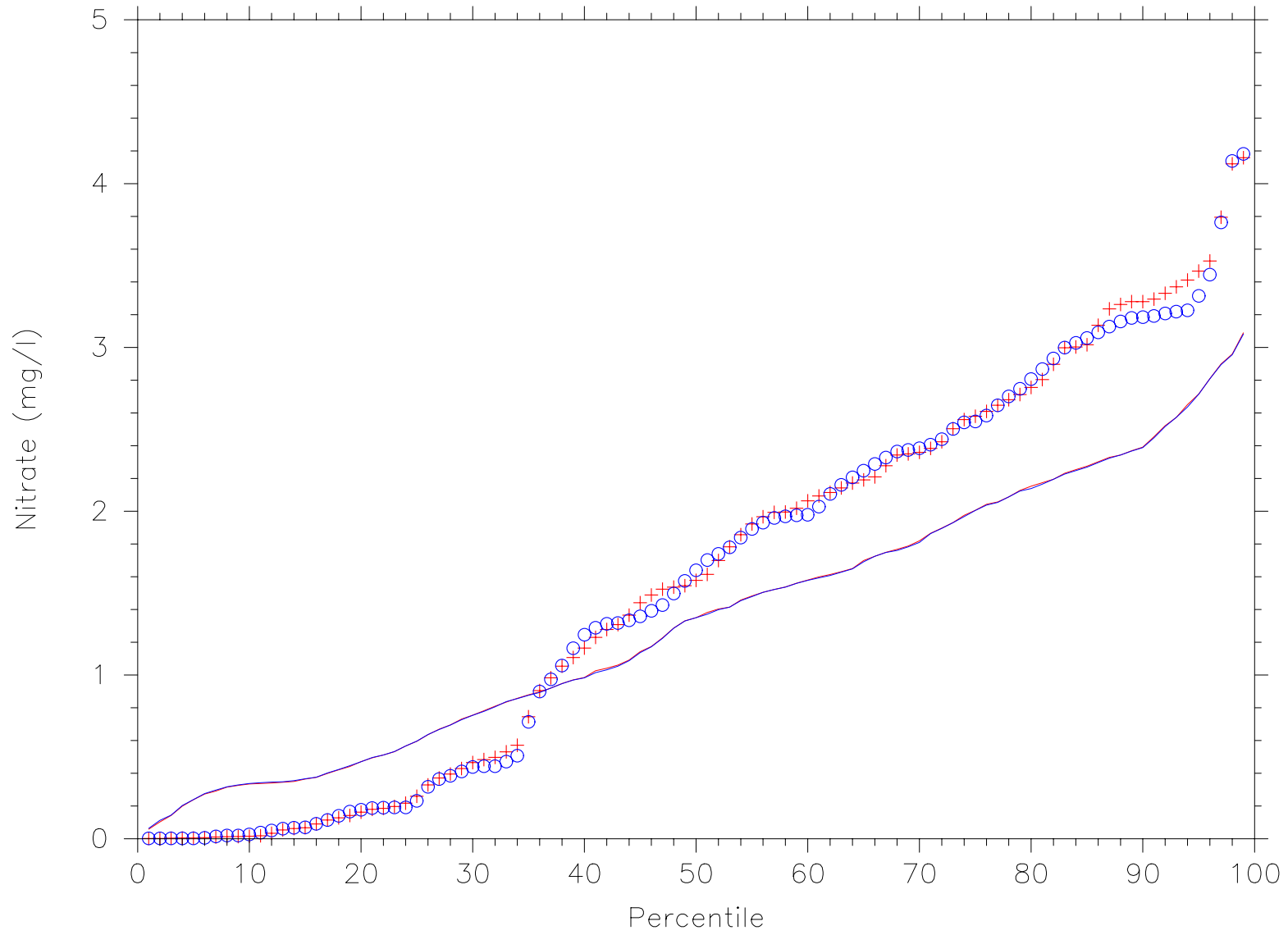
Light Extinction, ET4.1



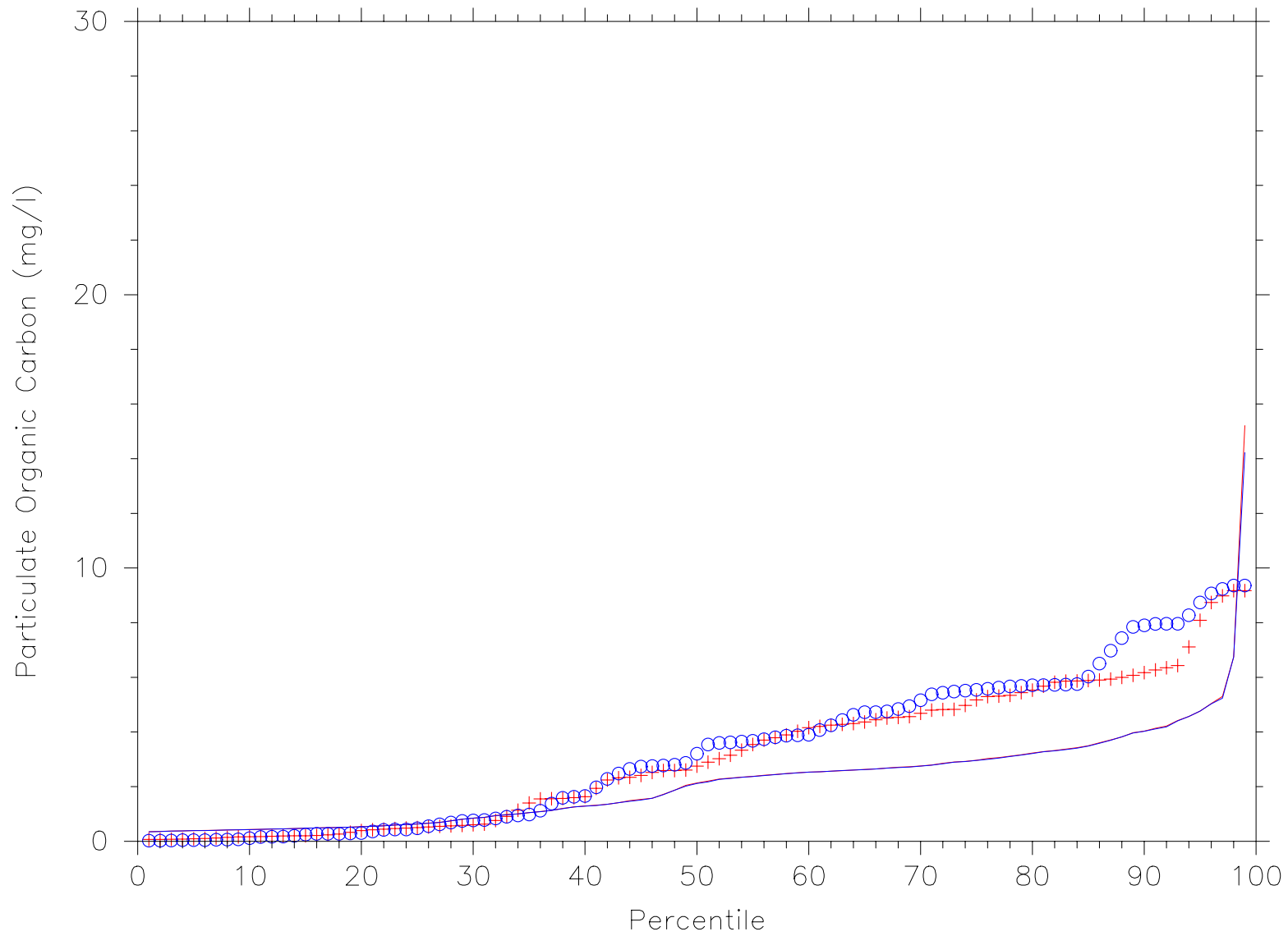
Ammonium,ET4.1



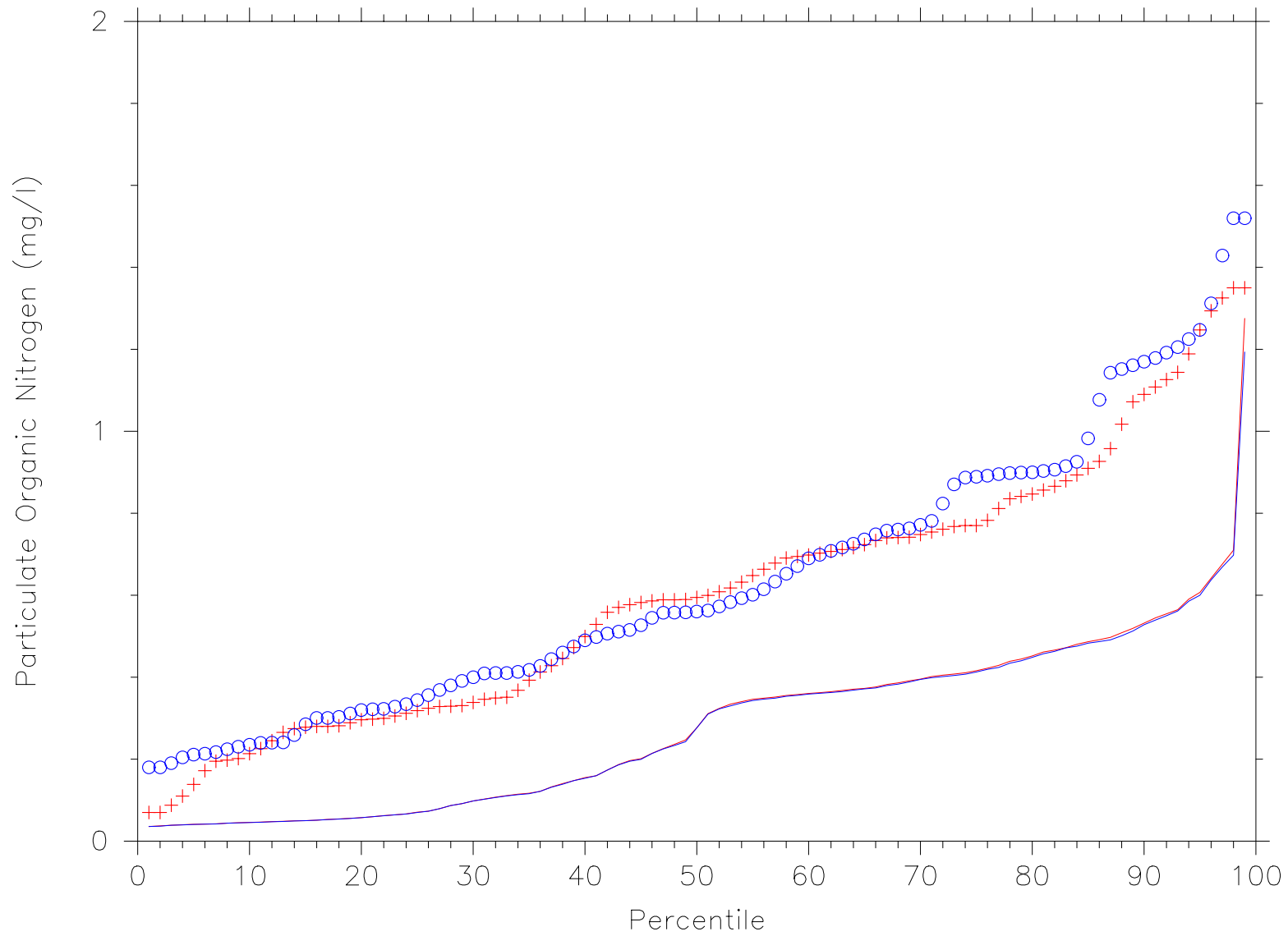
Nitrate,ET4.1



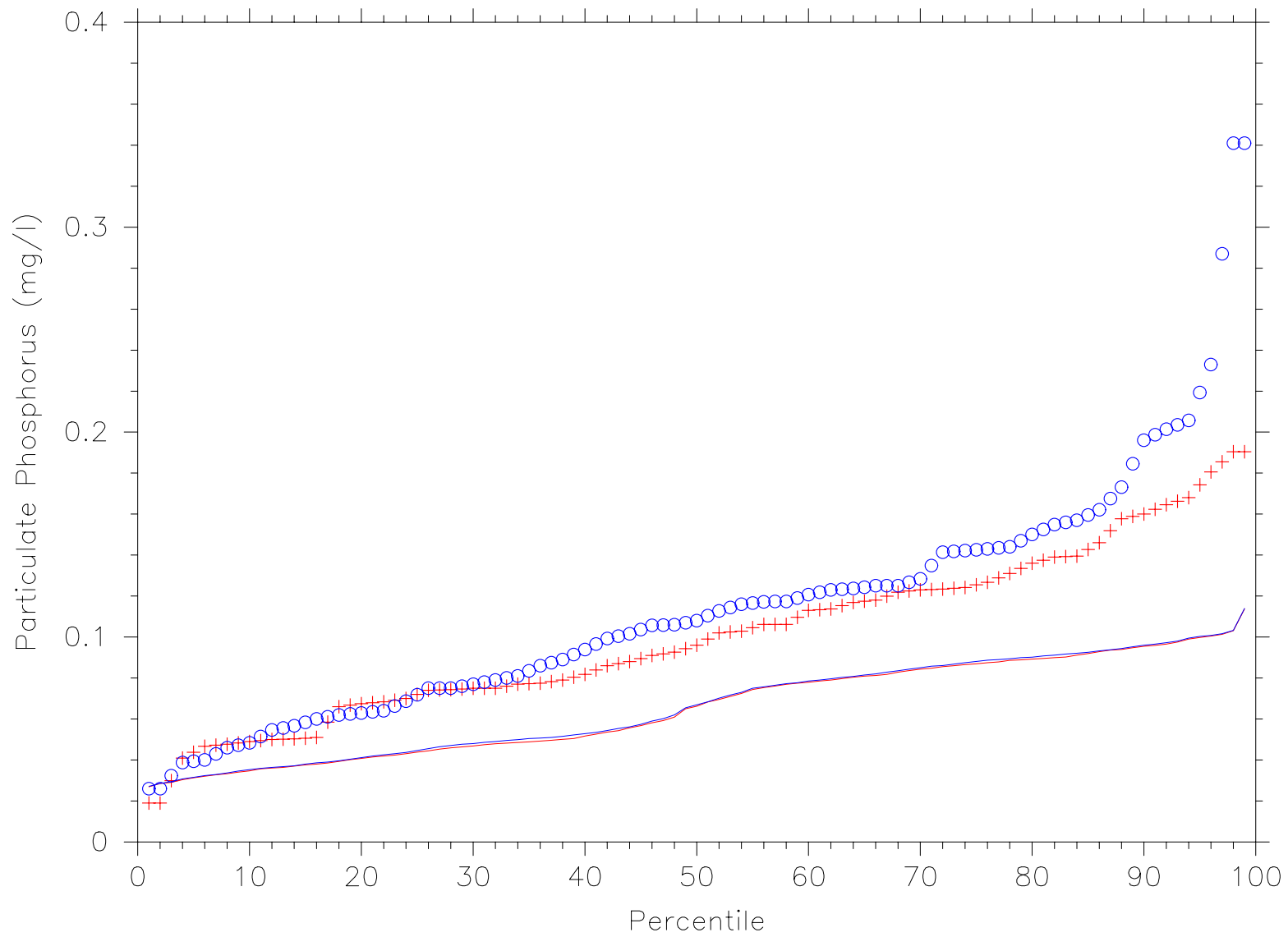
Particulate Organic Carbon,ET4.1



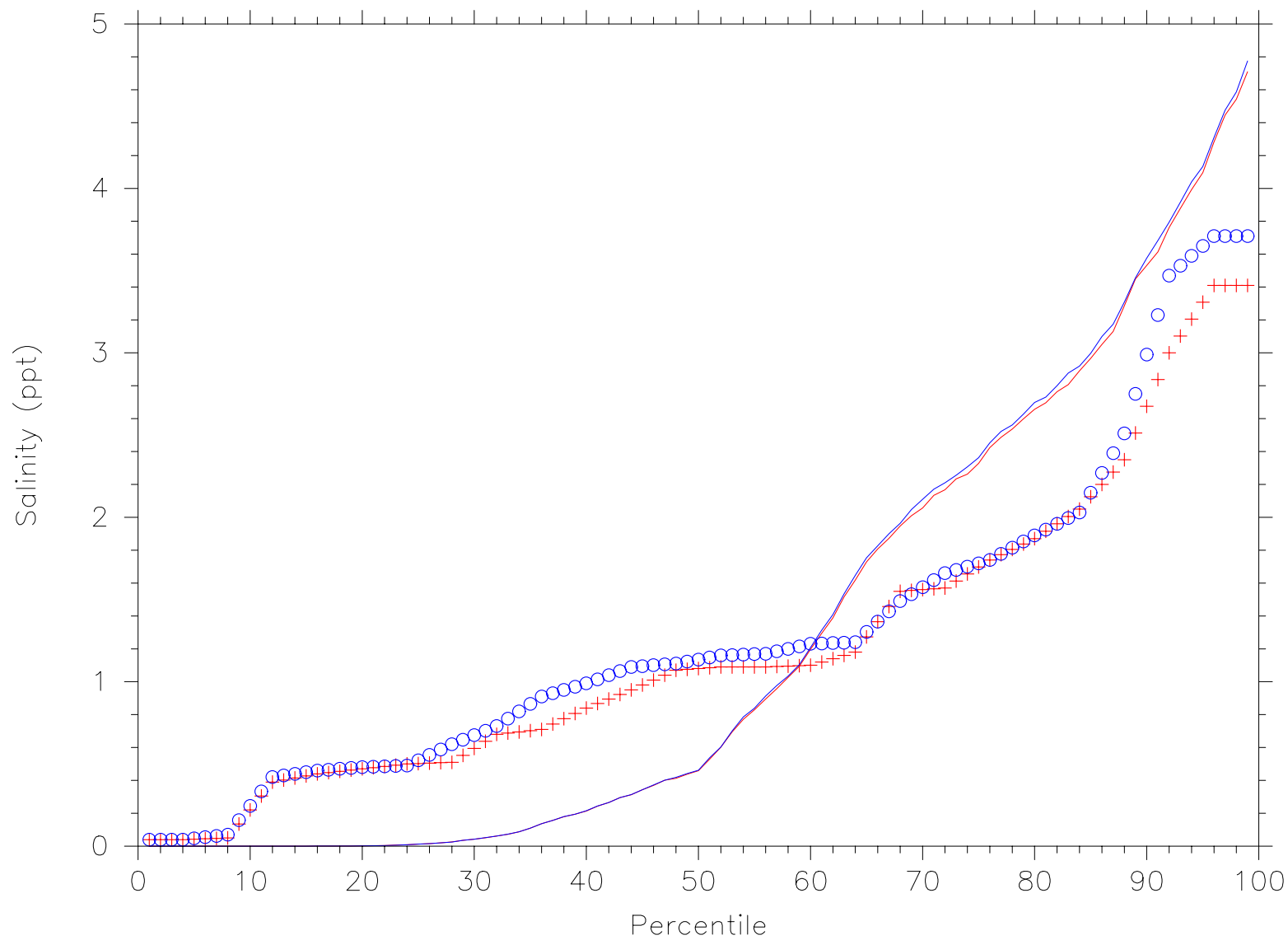
Particulate Organic Nitrogen,ET4.1



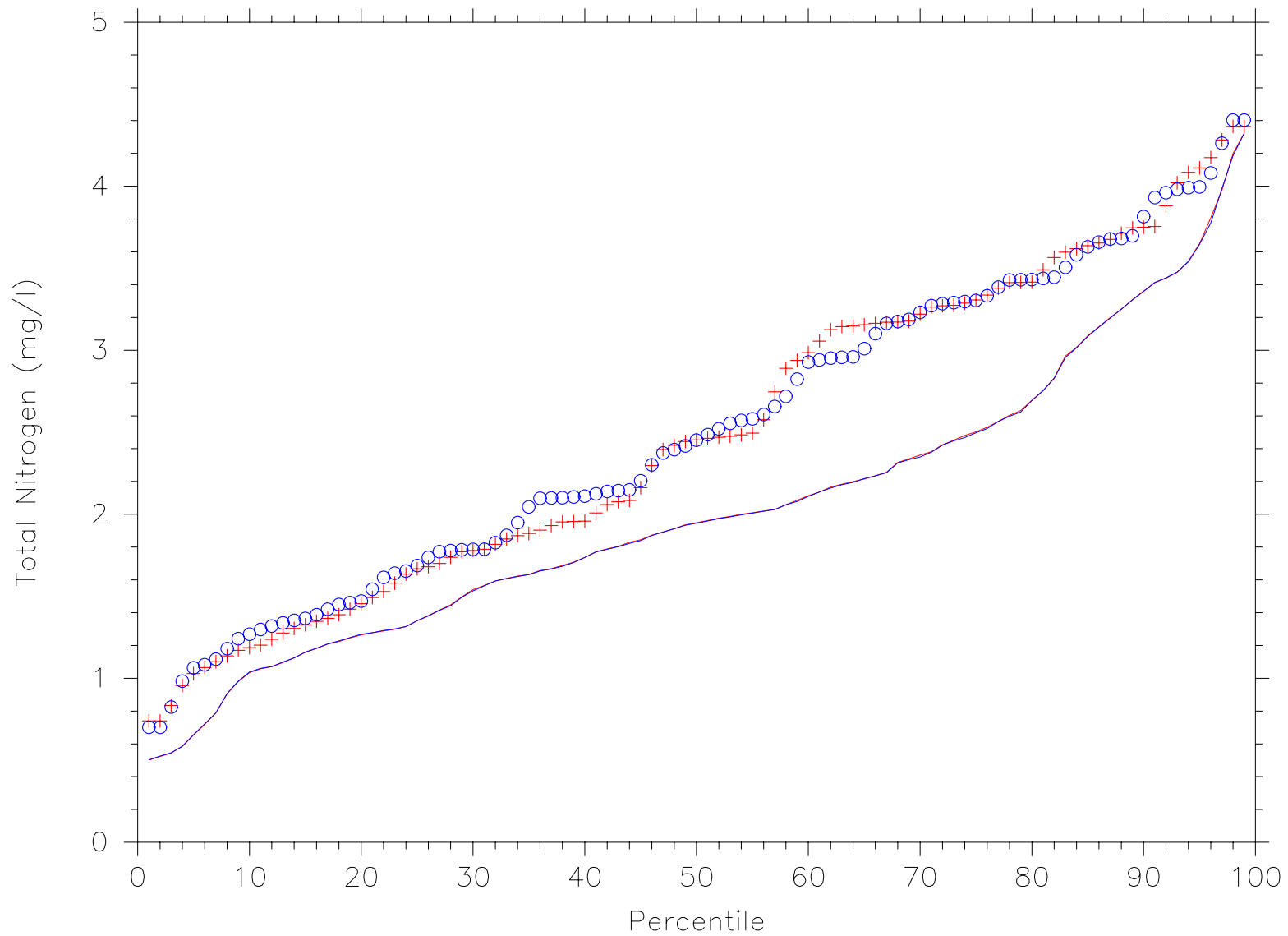
Particulate Phosphorus,ET4.1



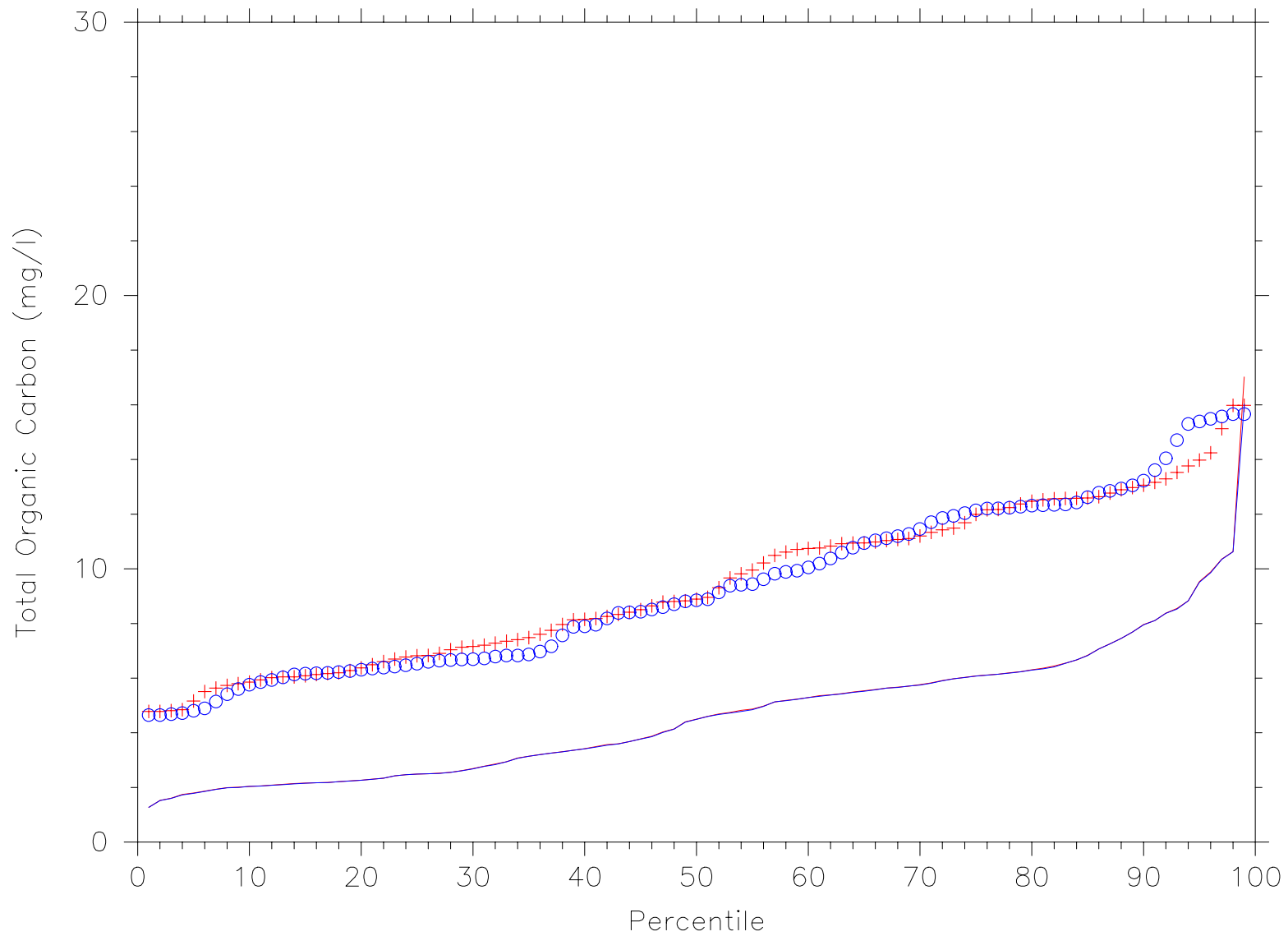
Salinity,ET4.1



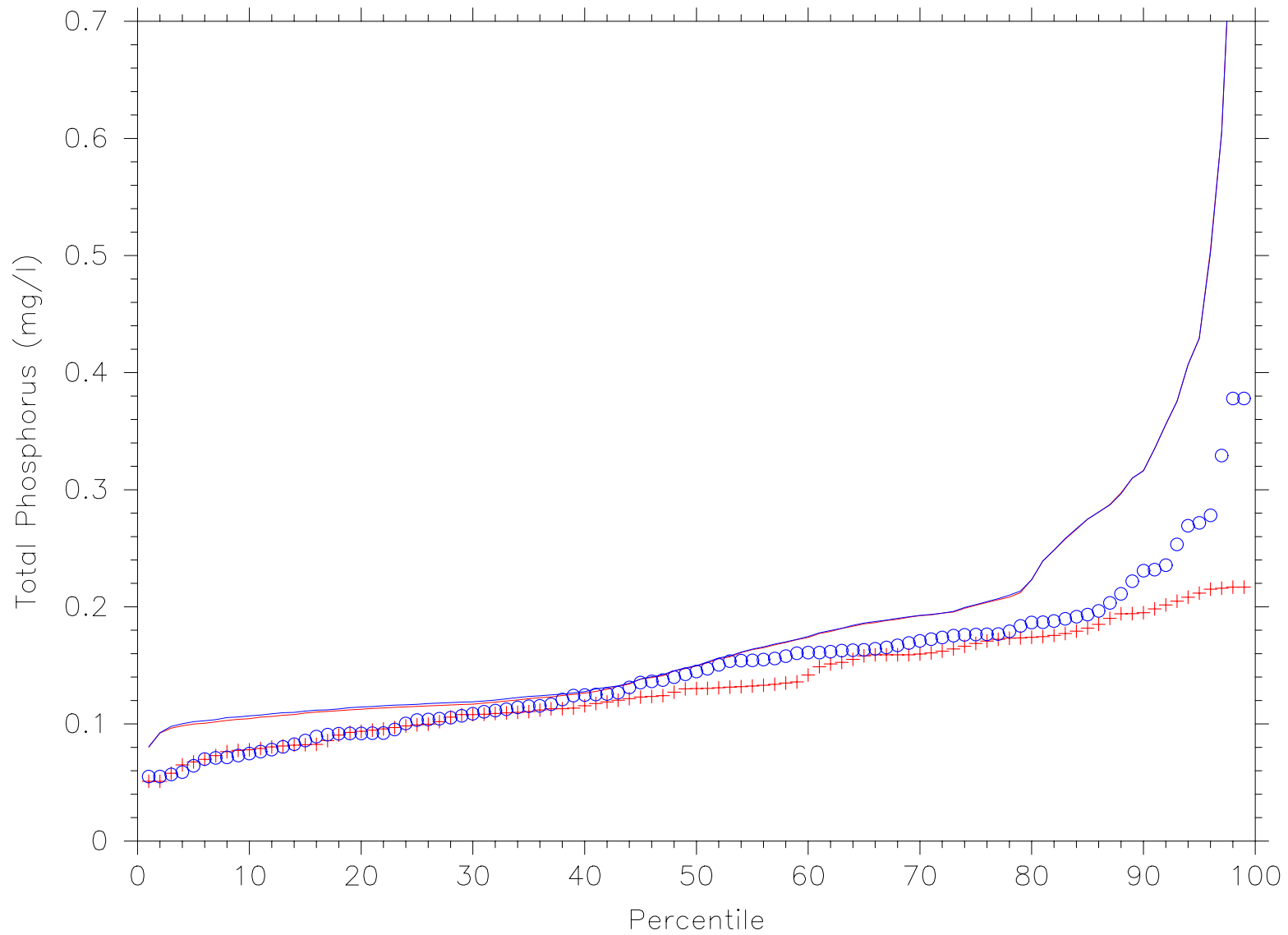
Total Nitrogen,ET4.1



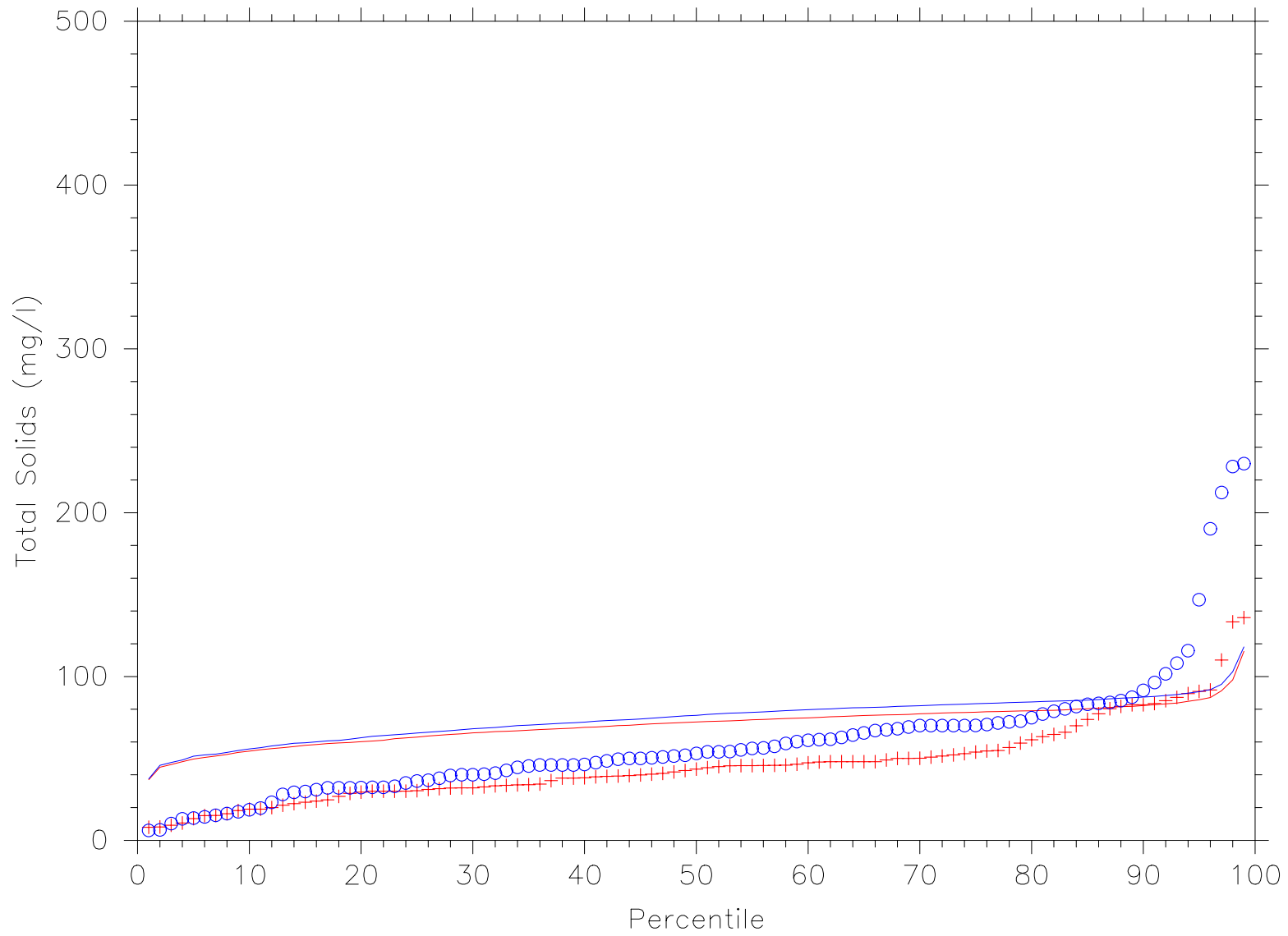
Total Organic Carbon,ET4.1



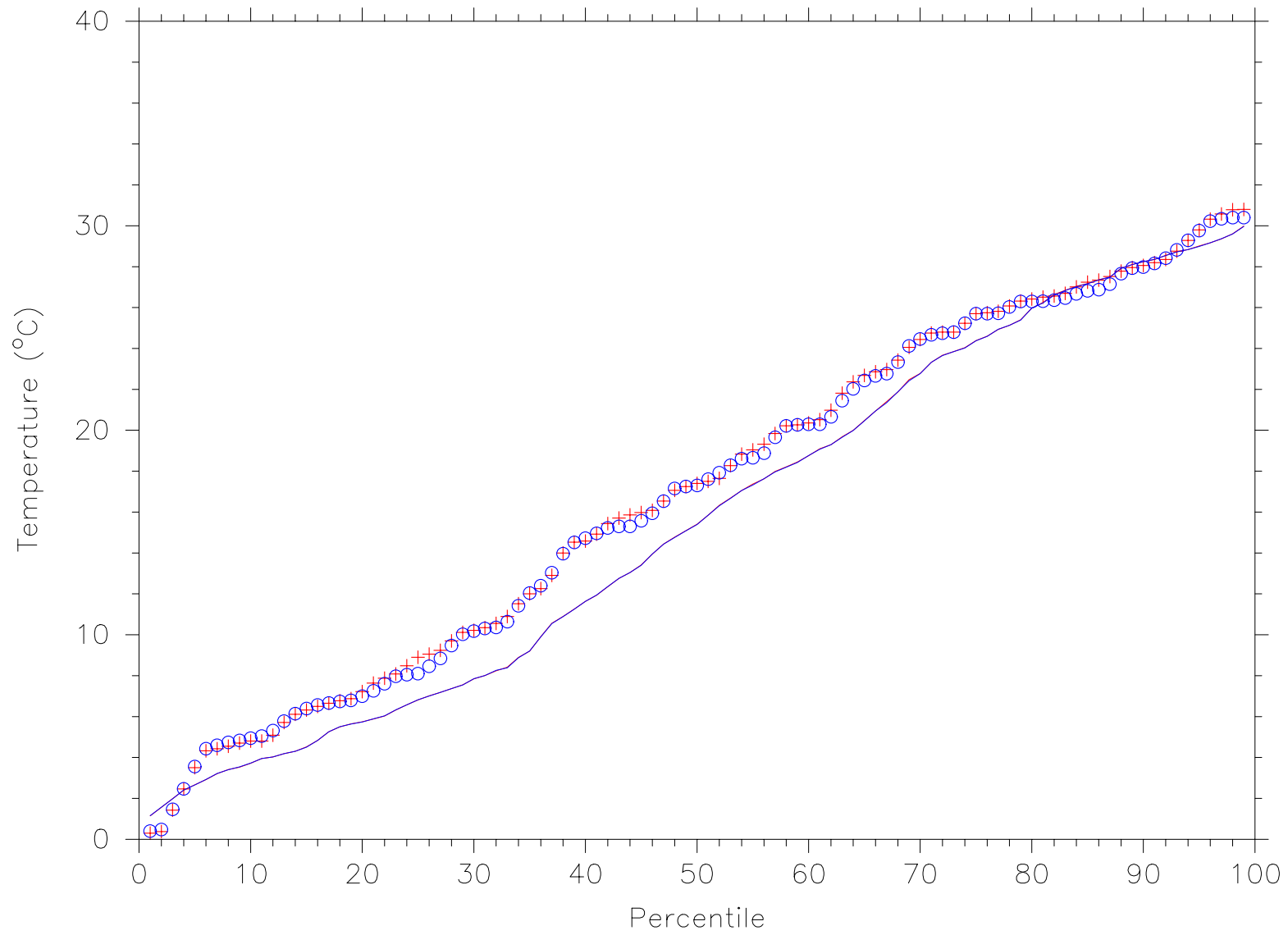
Total Phosphorus,ET4.1



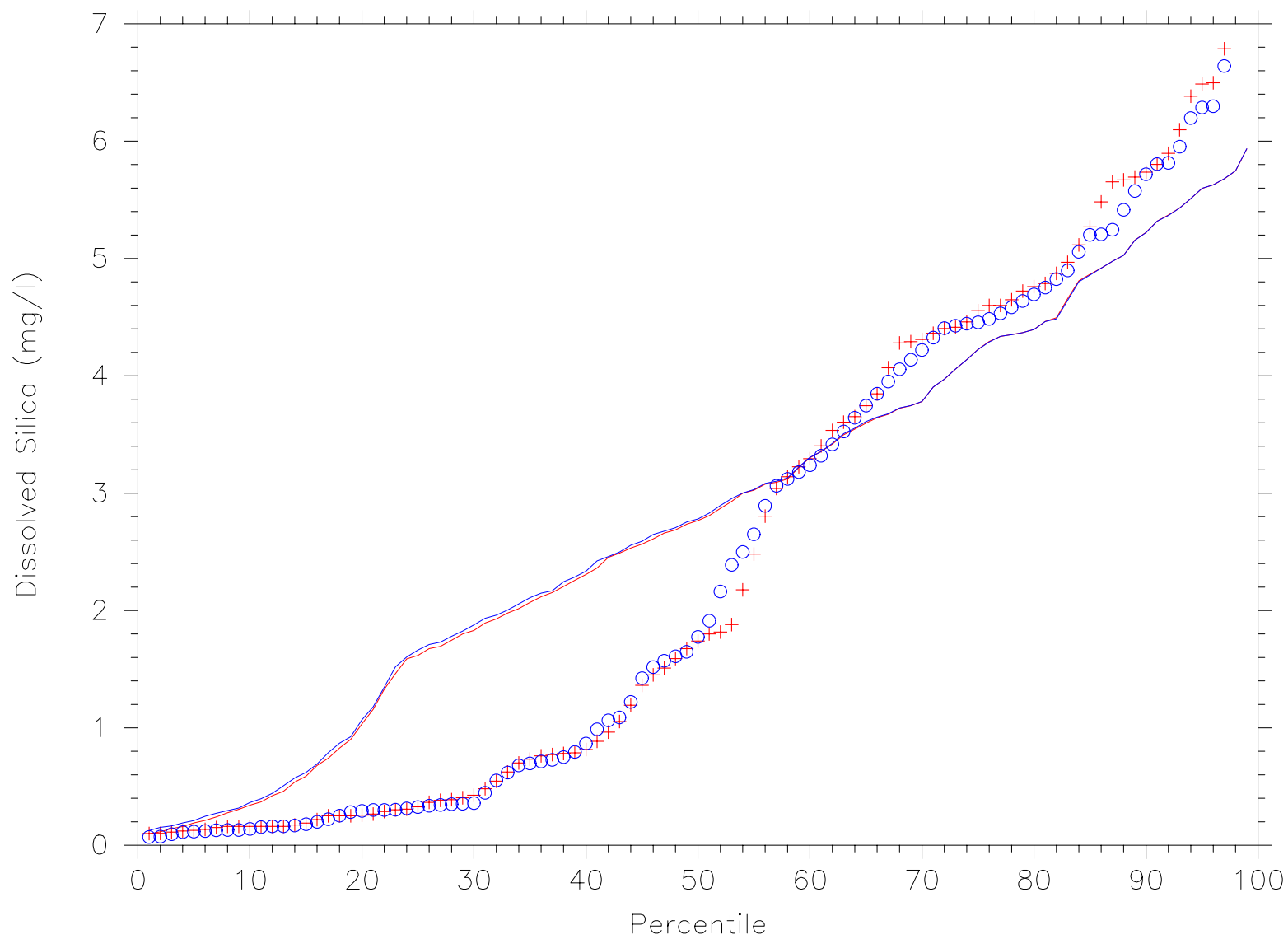
Total Solids,ET4.1



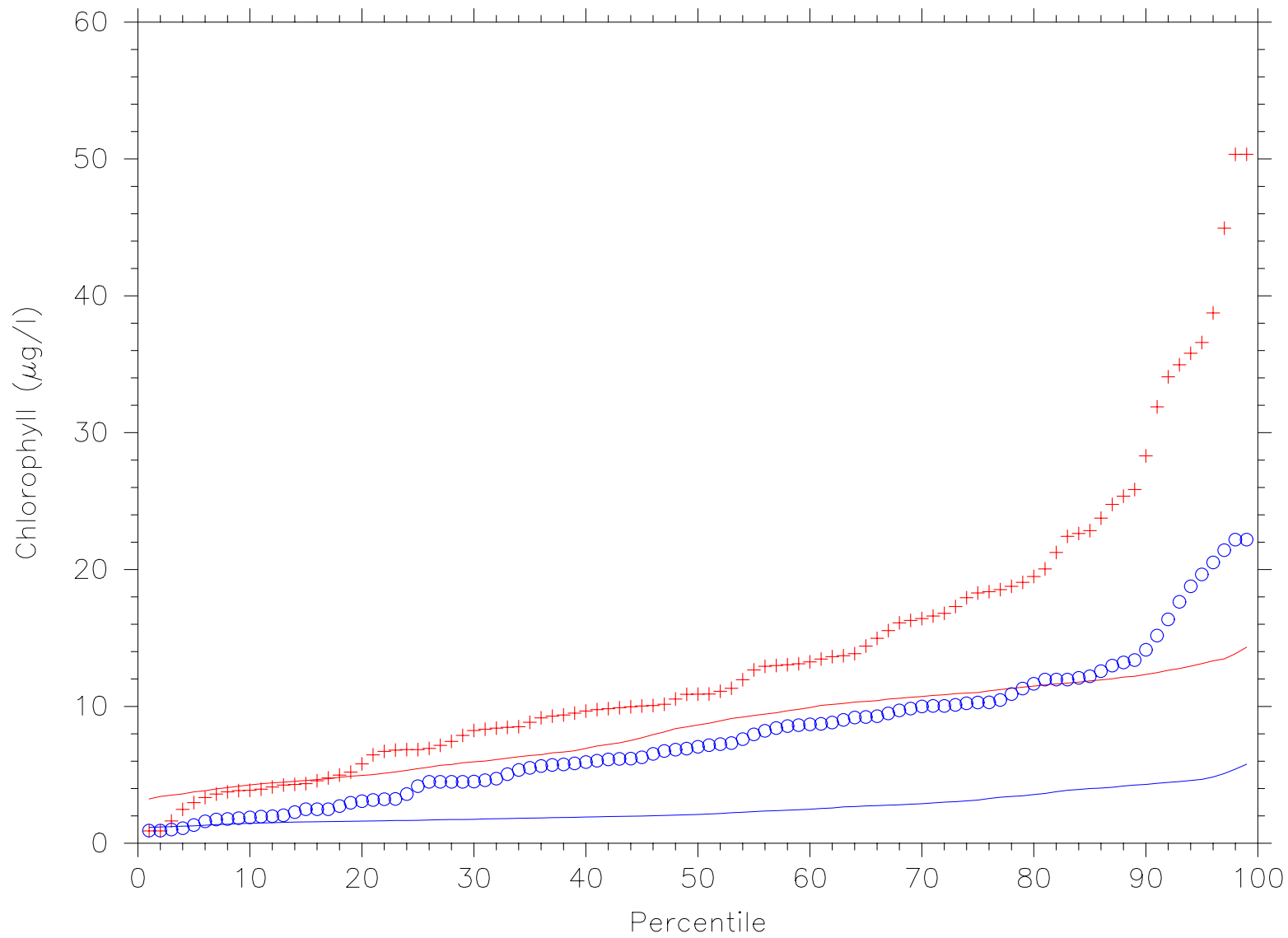
Temperature,ET4.1



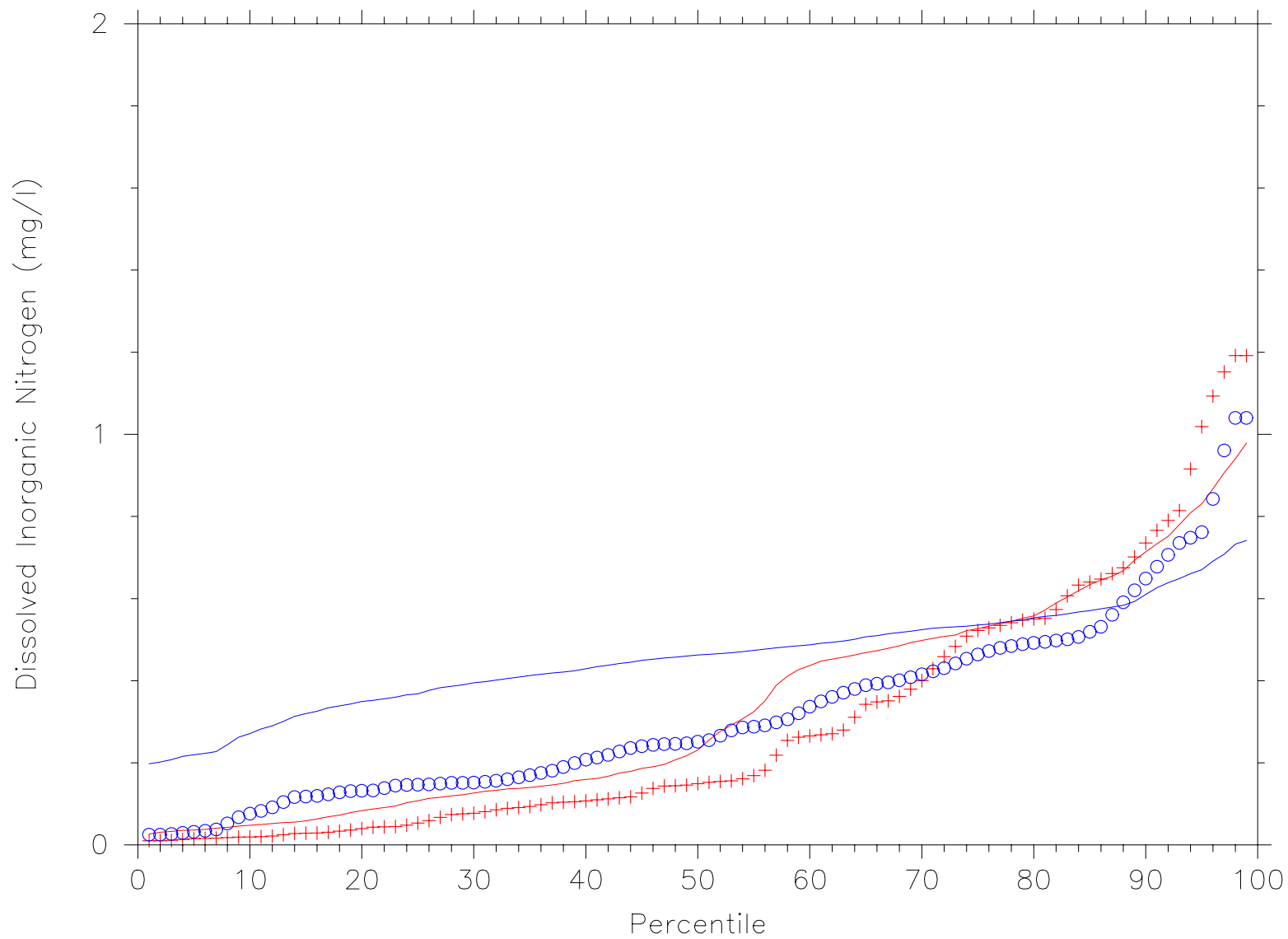
Dissolved Silica, ET4.1



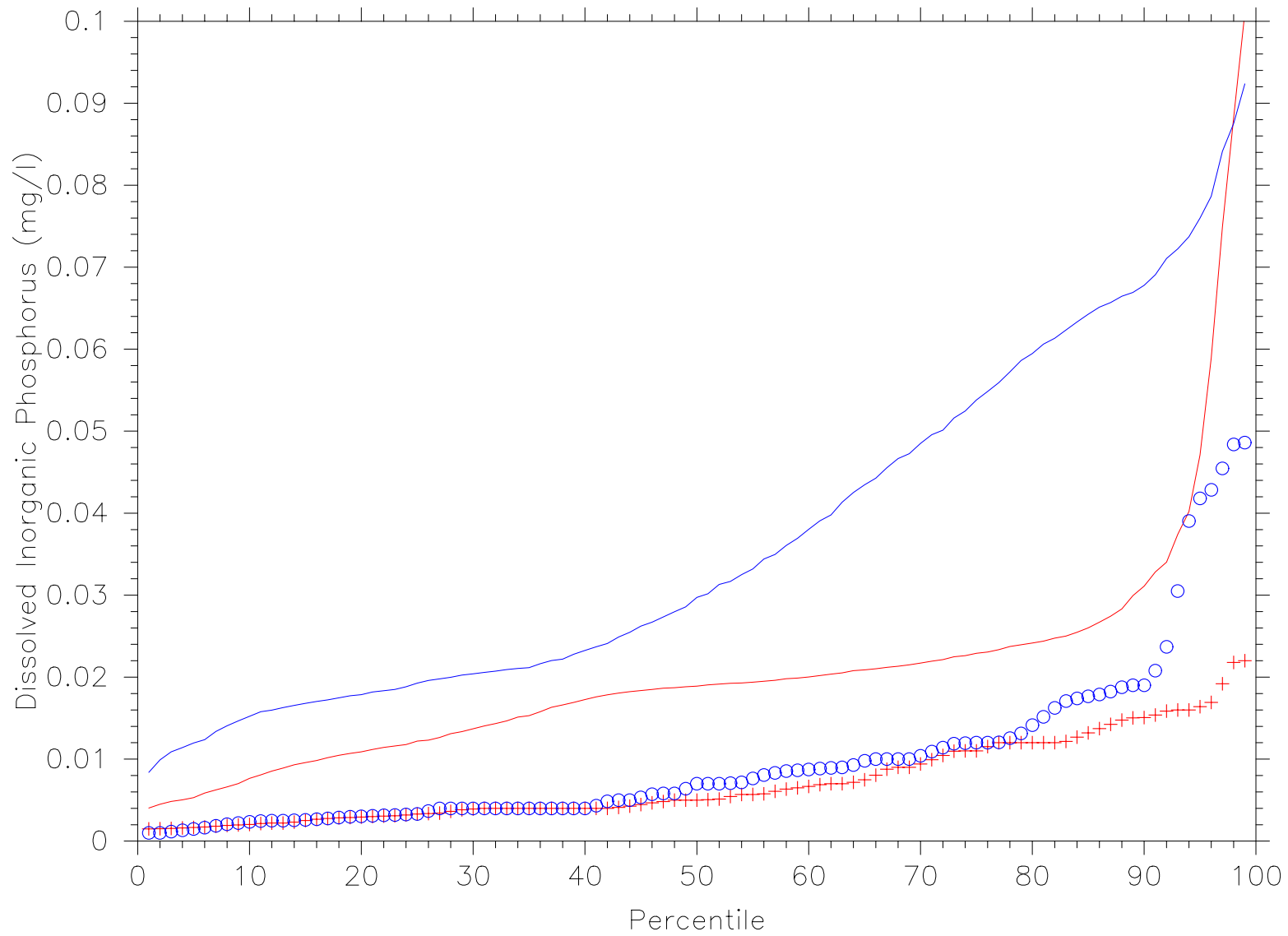
Chlorophyll,ET4.2



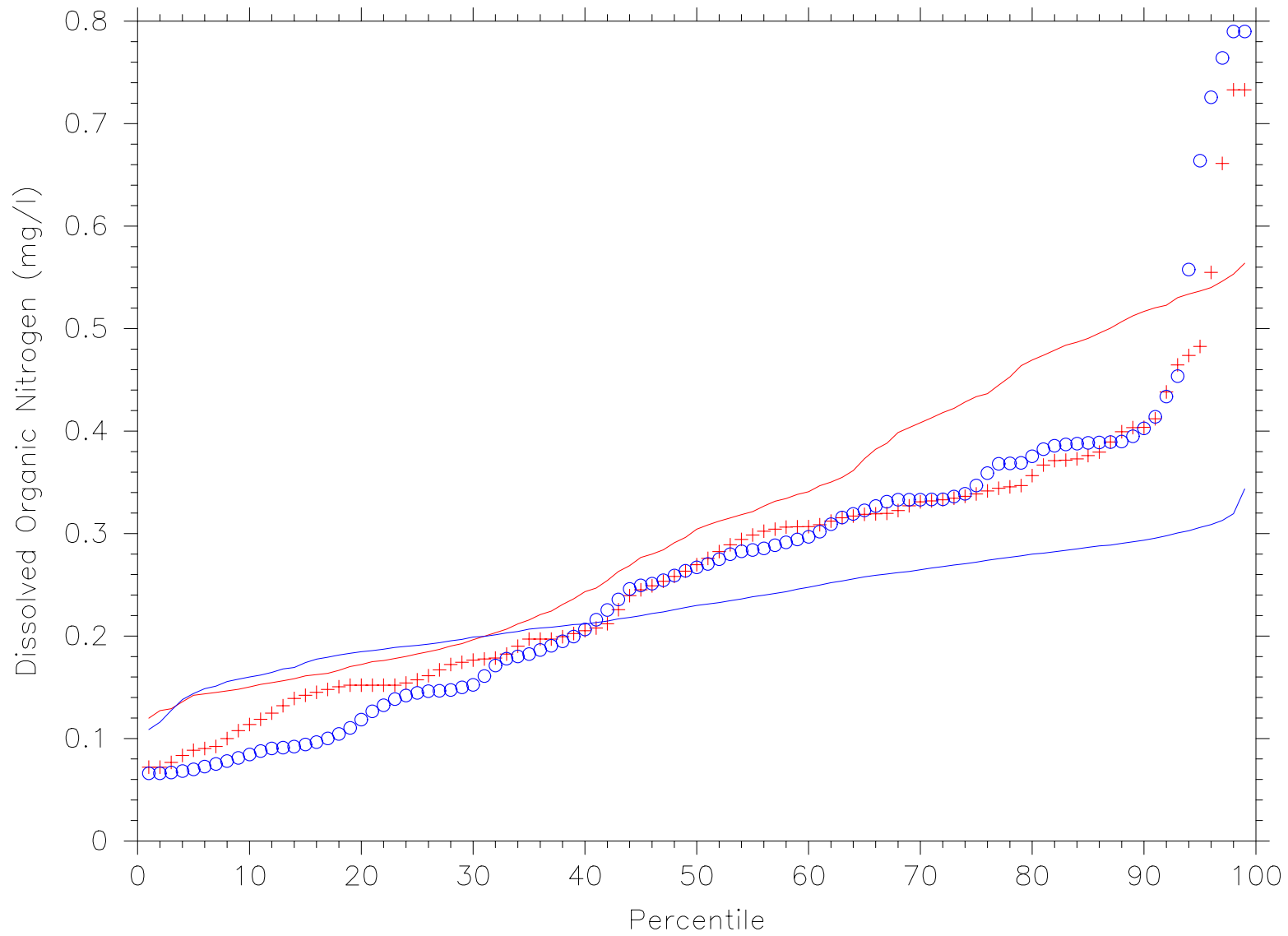
Dissolved Inorganic Nitrogen,ET4.2



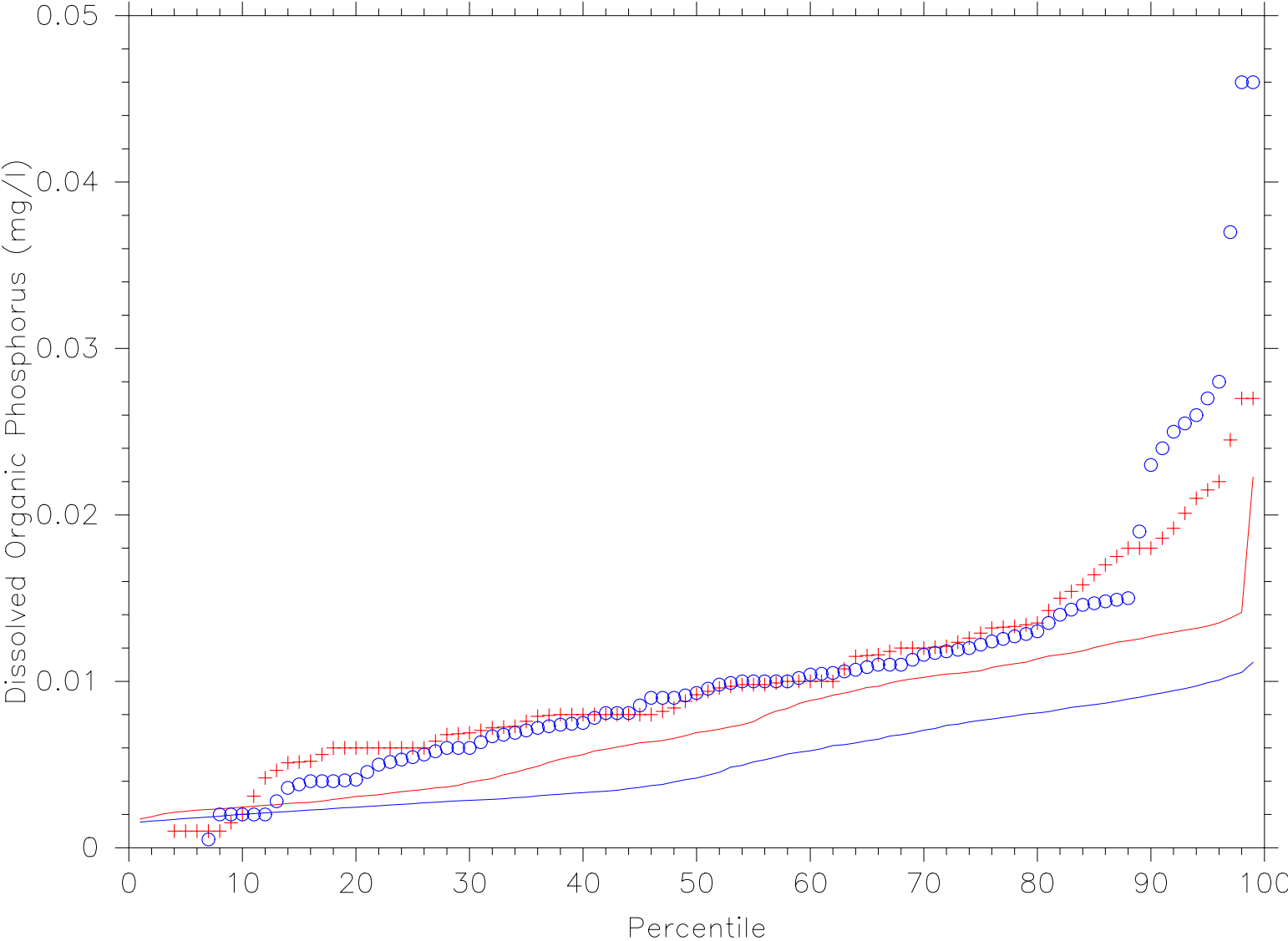
Dissolved Inorganic Phosphorus,ET4.2



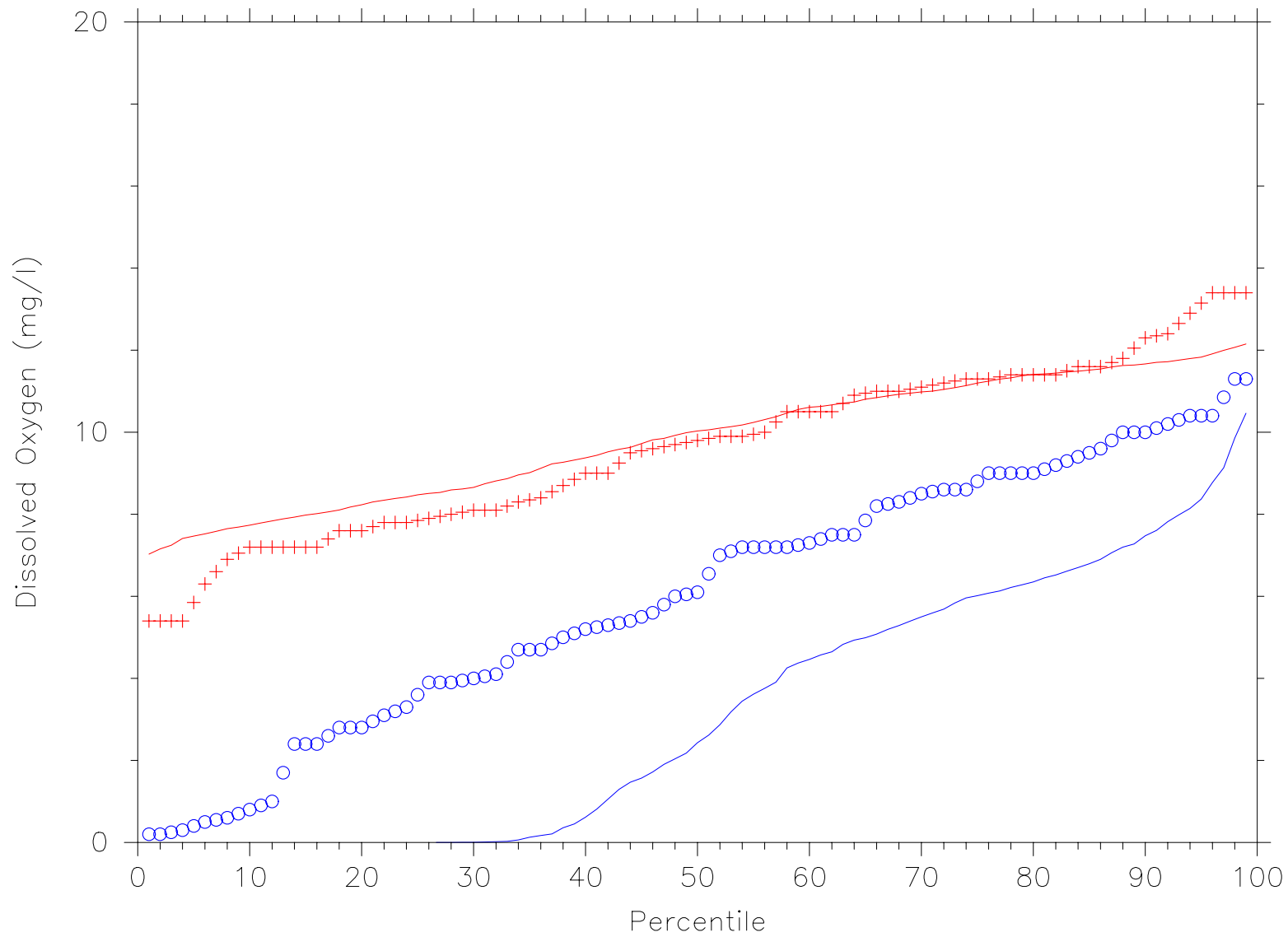
Dissolved Organic Nitrogen, ET4.2



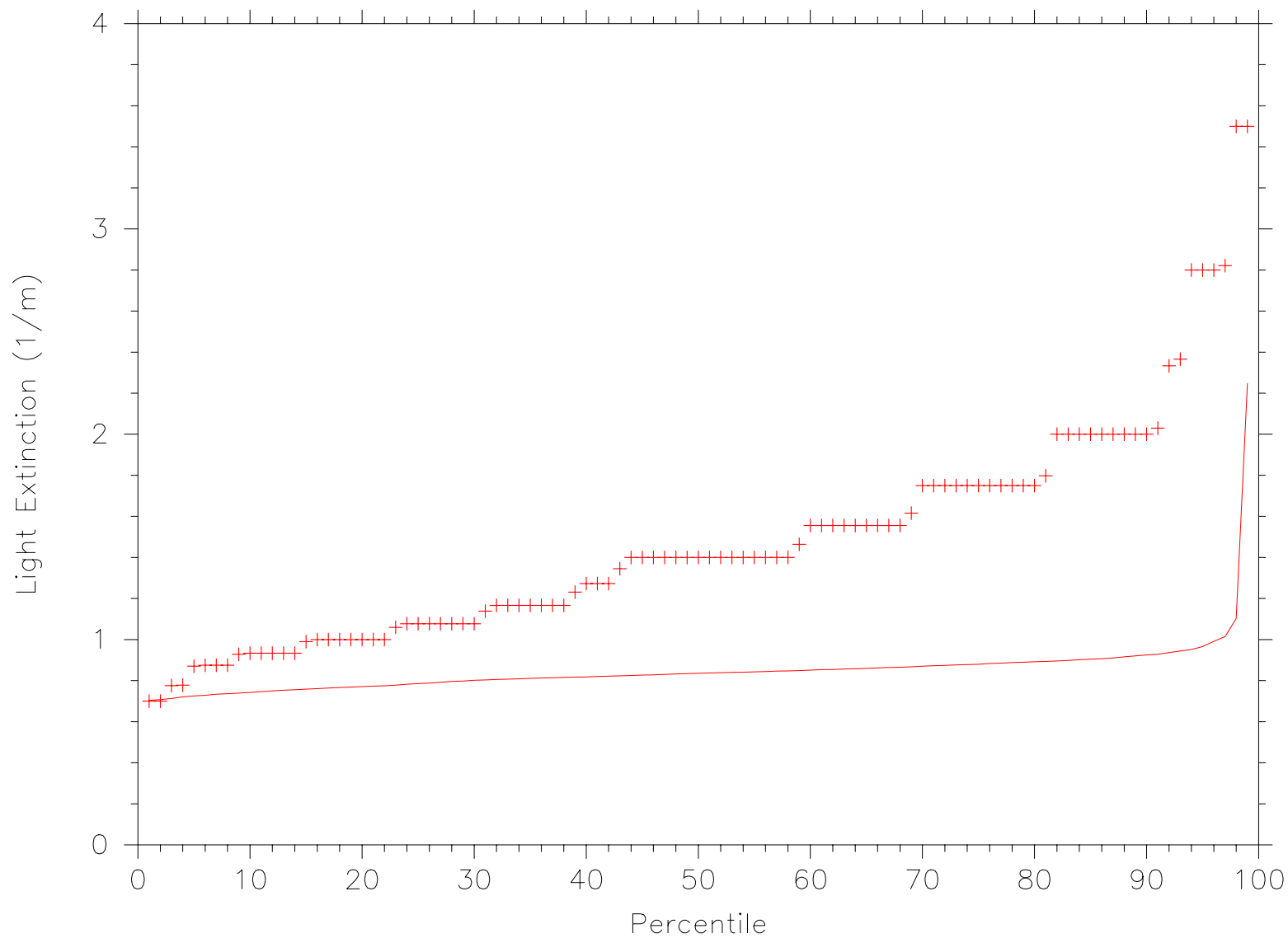
Dissolved Organic Phosphorus,ET4.2



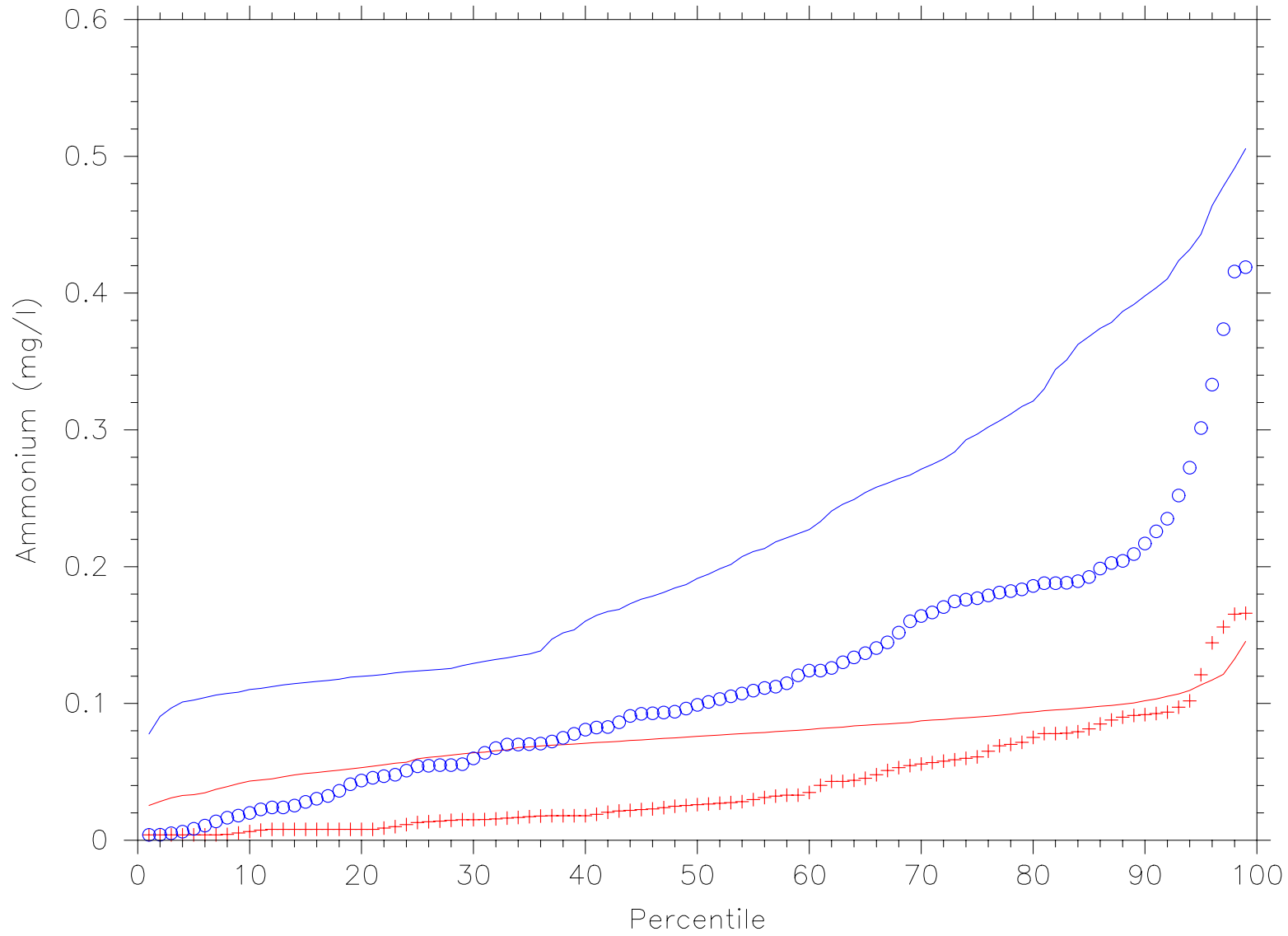
Dissolved Oxygen, ET4.2



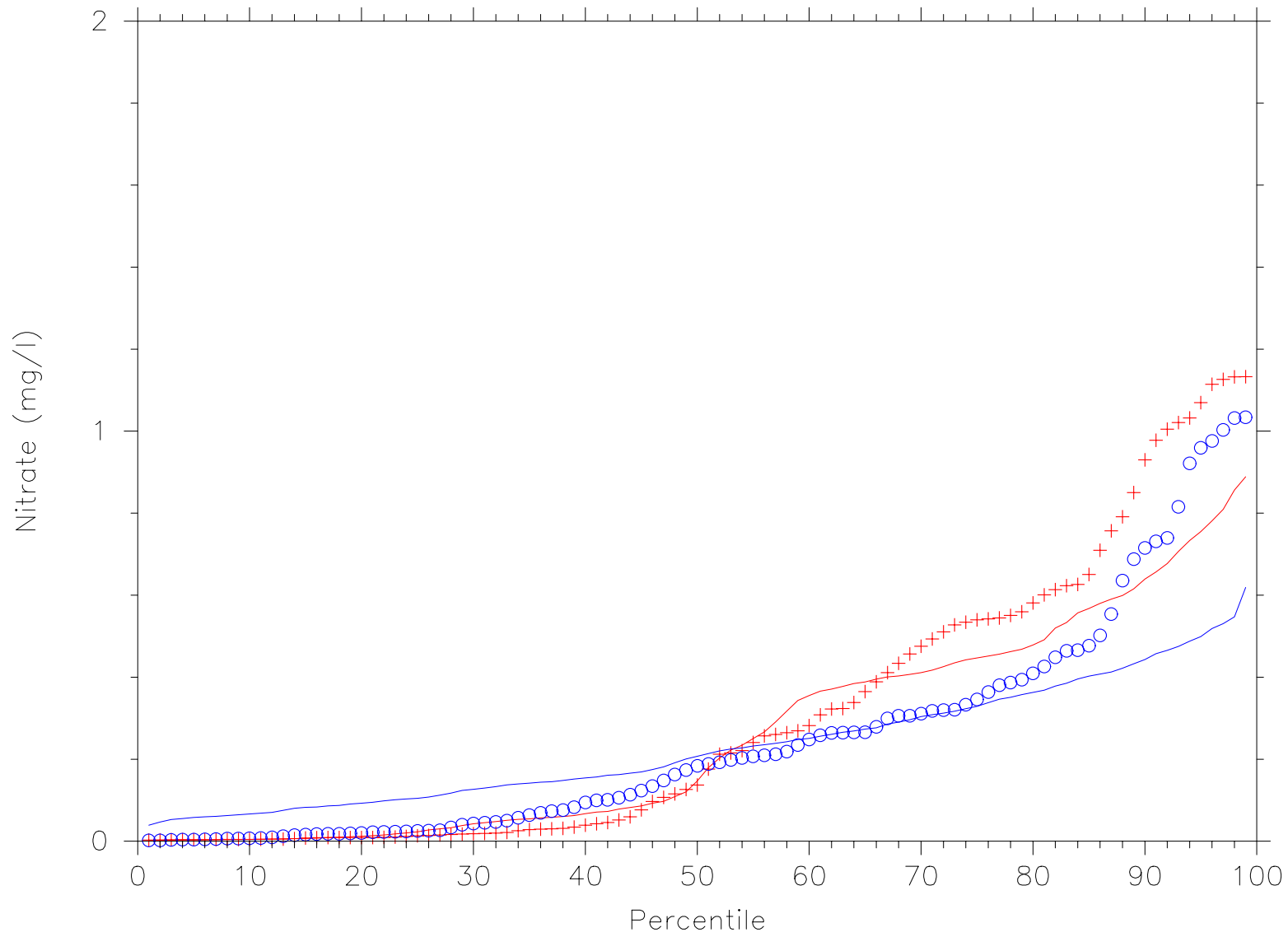
Light Extinction,ET4.2



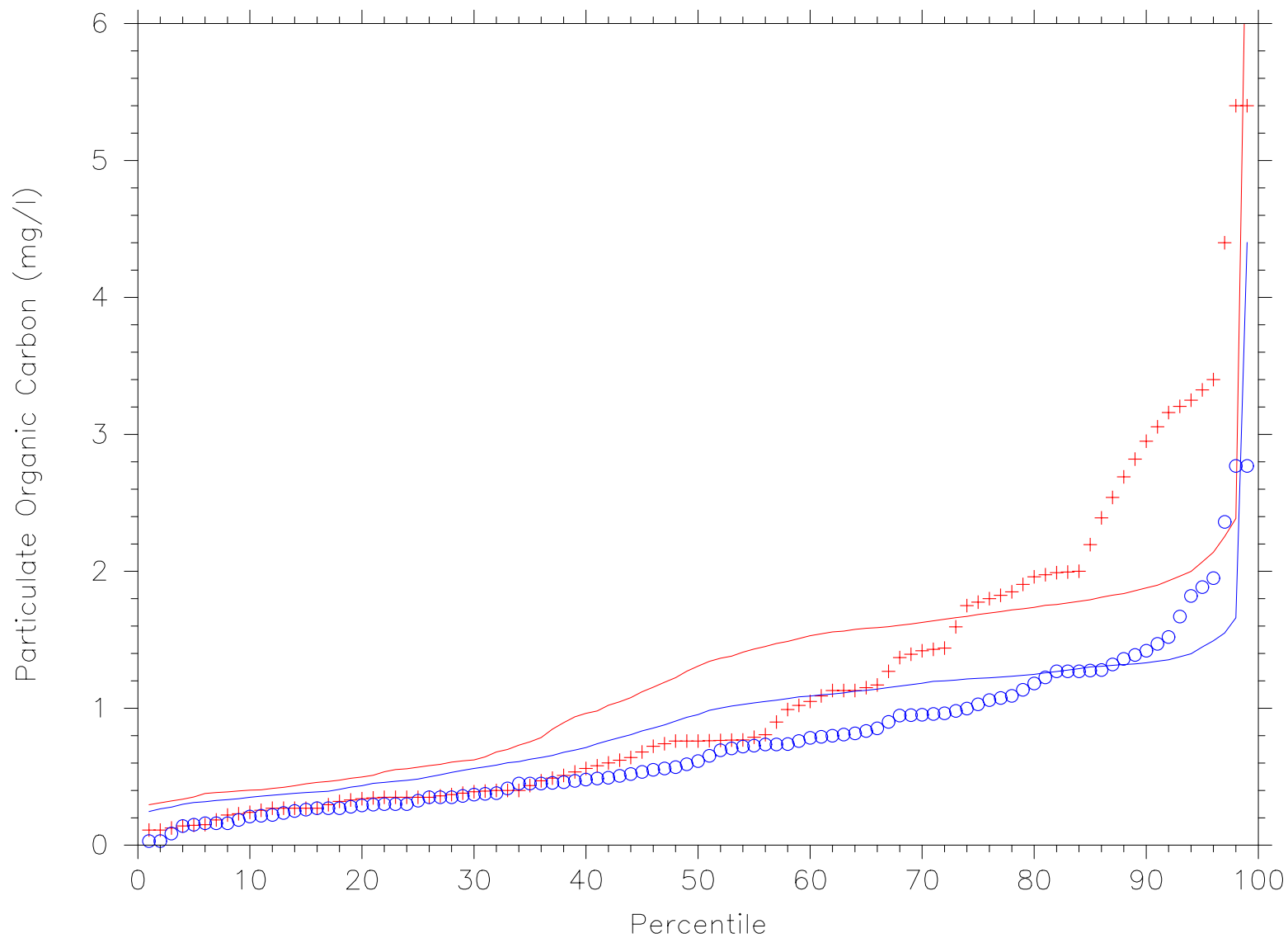
Ammonium,ET4.2



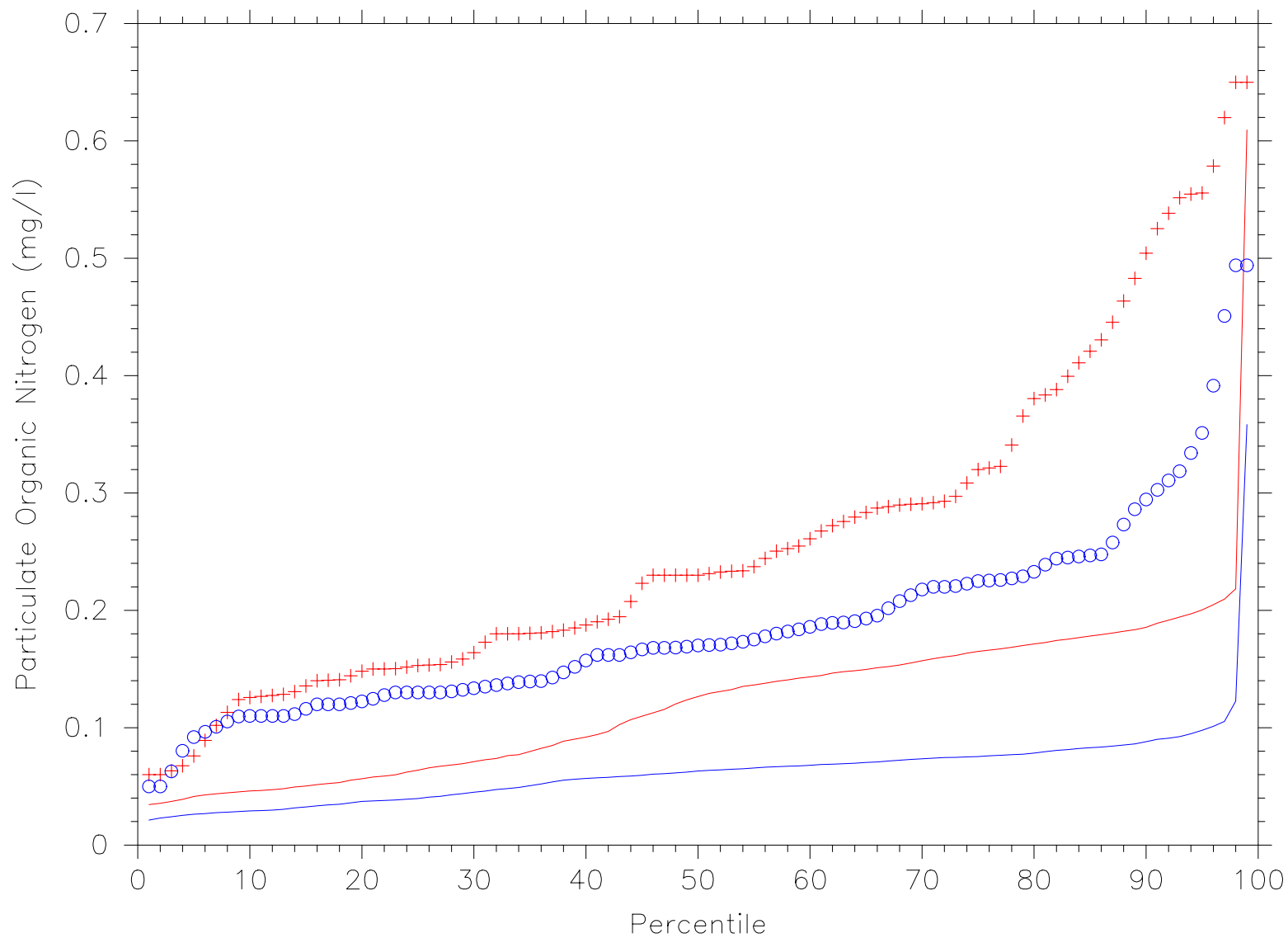
Nitrate,ET4.2



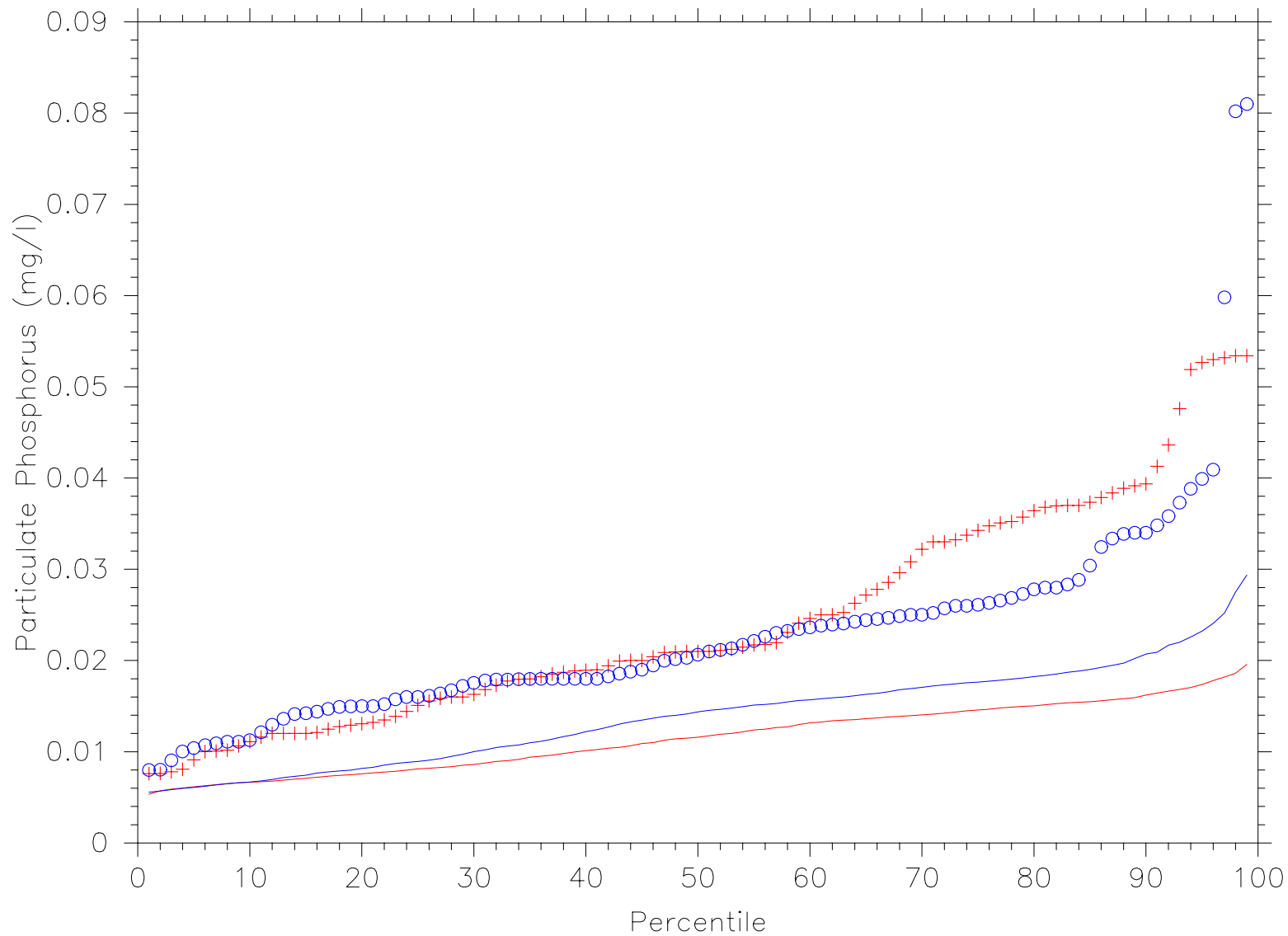
Particulate Organic Carbon,ET4.2



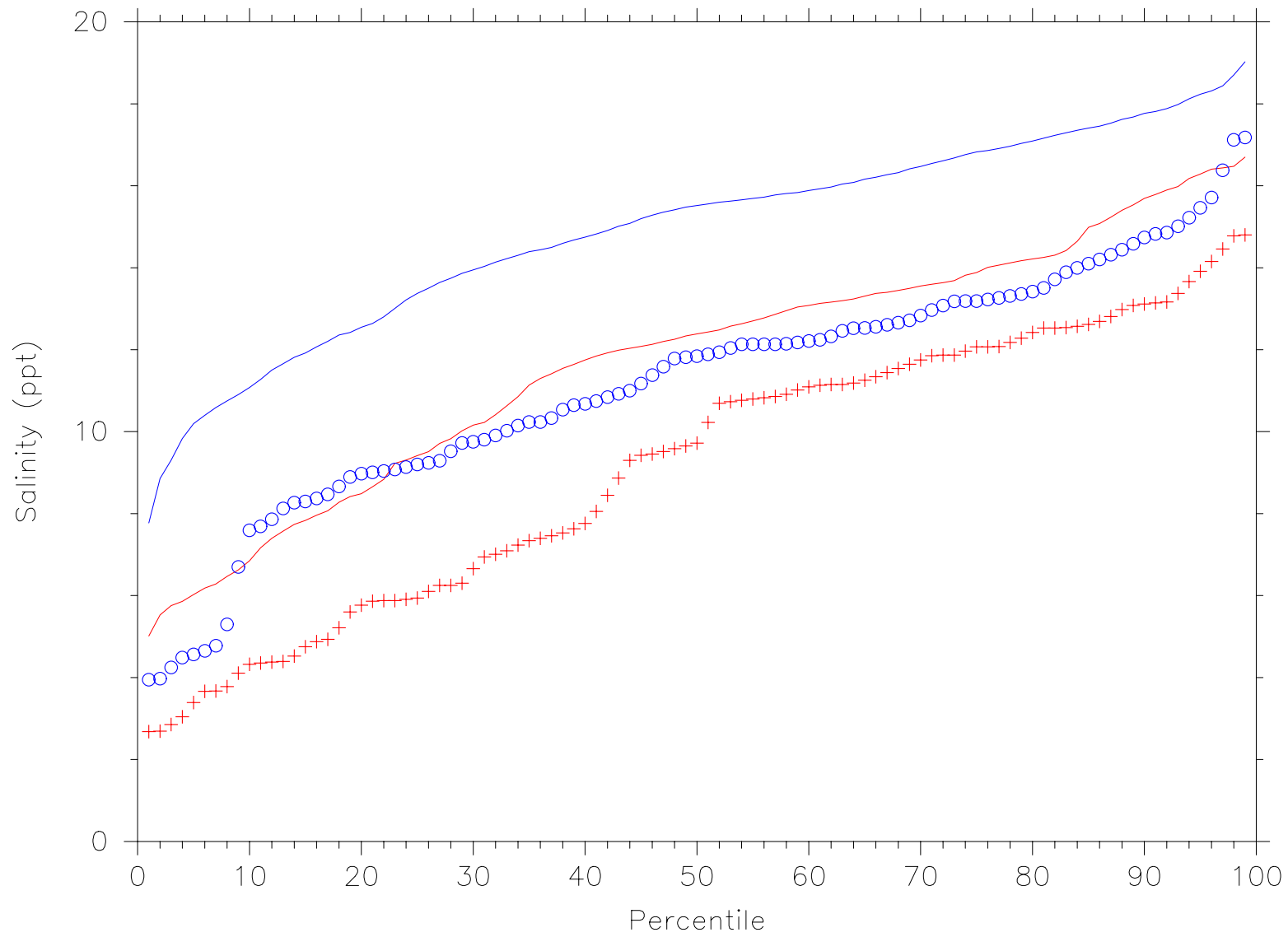
Particulate Organic Nitrogen,ET4.2



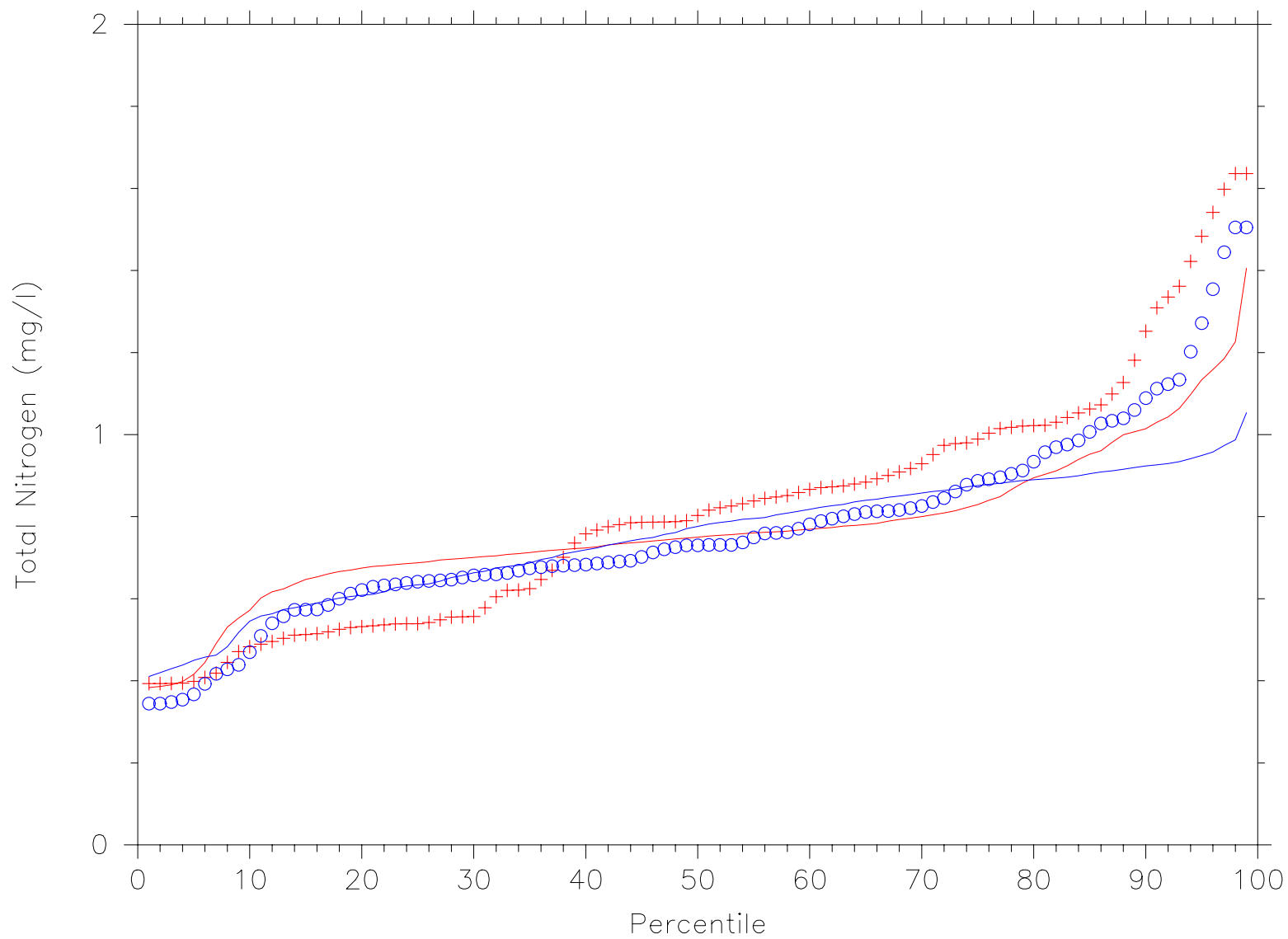
Particulate Phosphorus,ET4.2



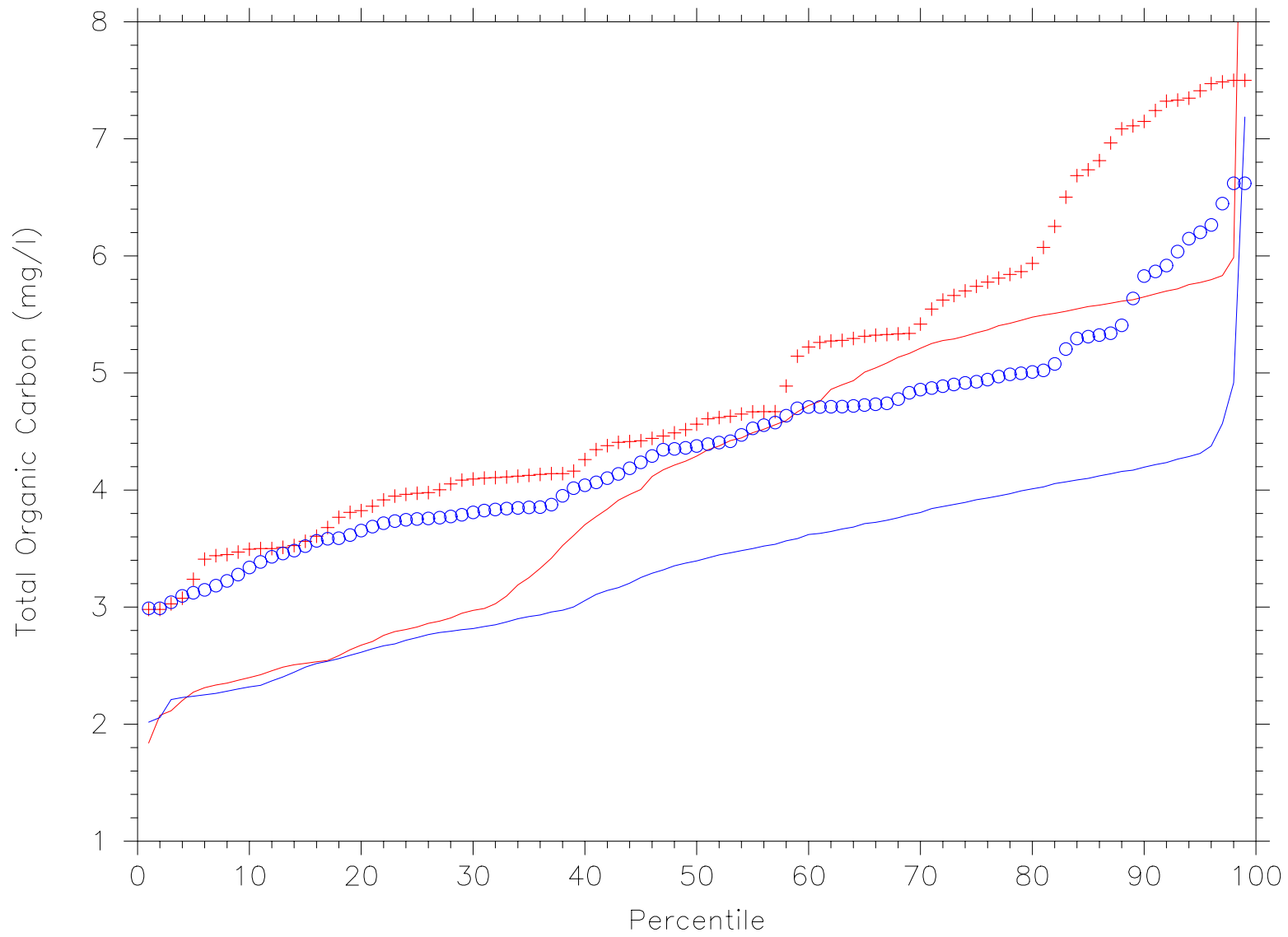
Salinity,ET4.2



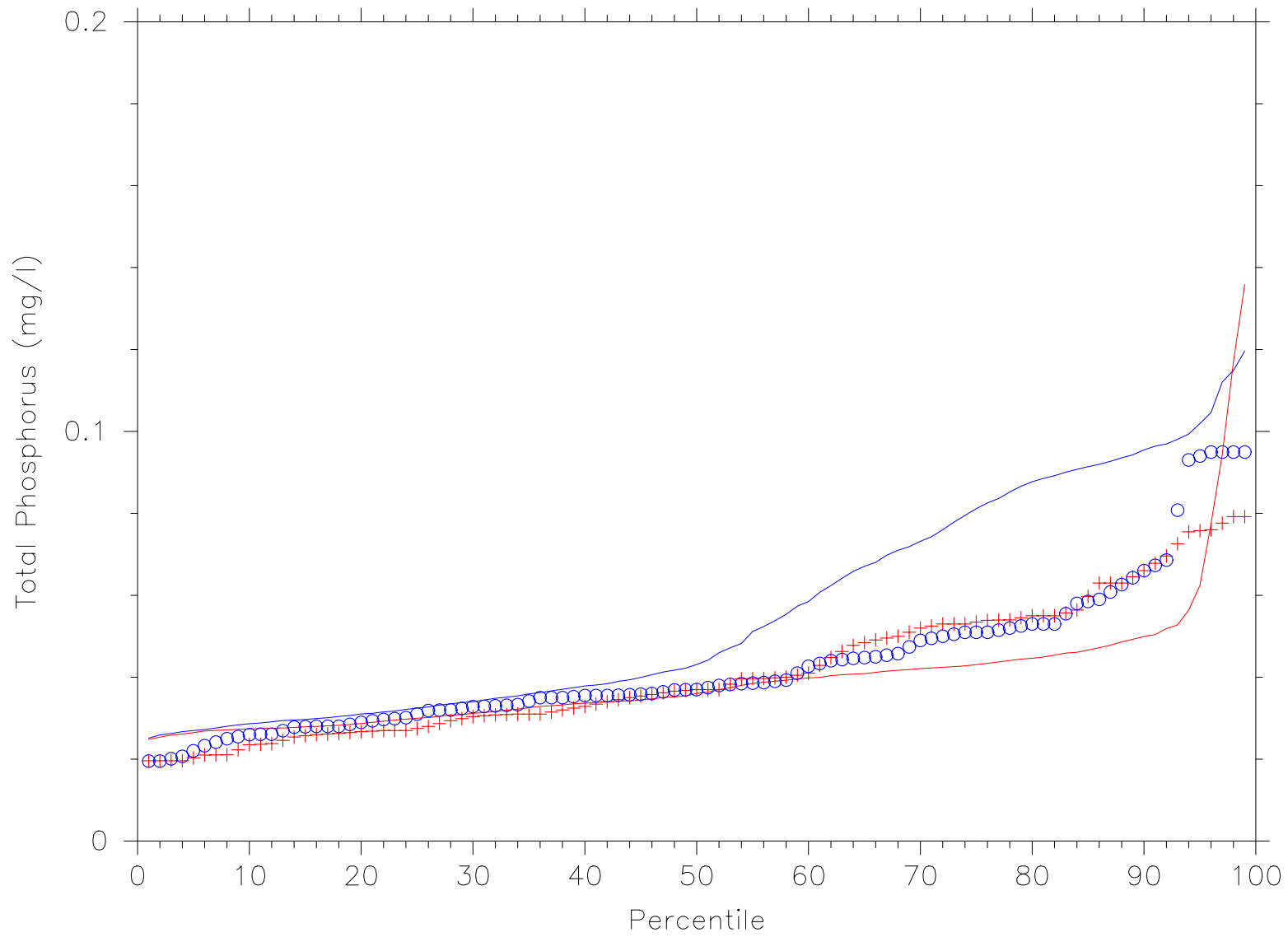
Total Nitrogen,ET4.2



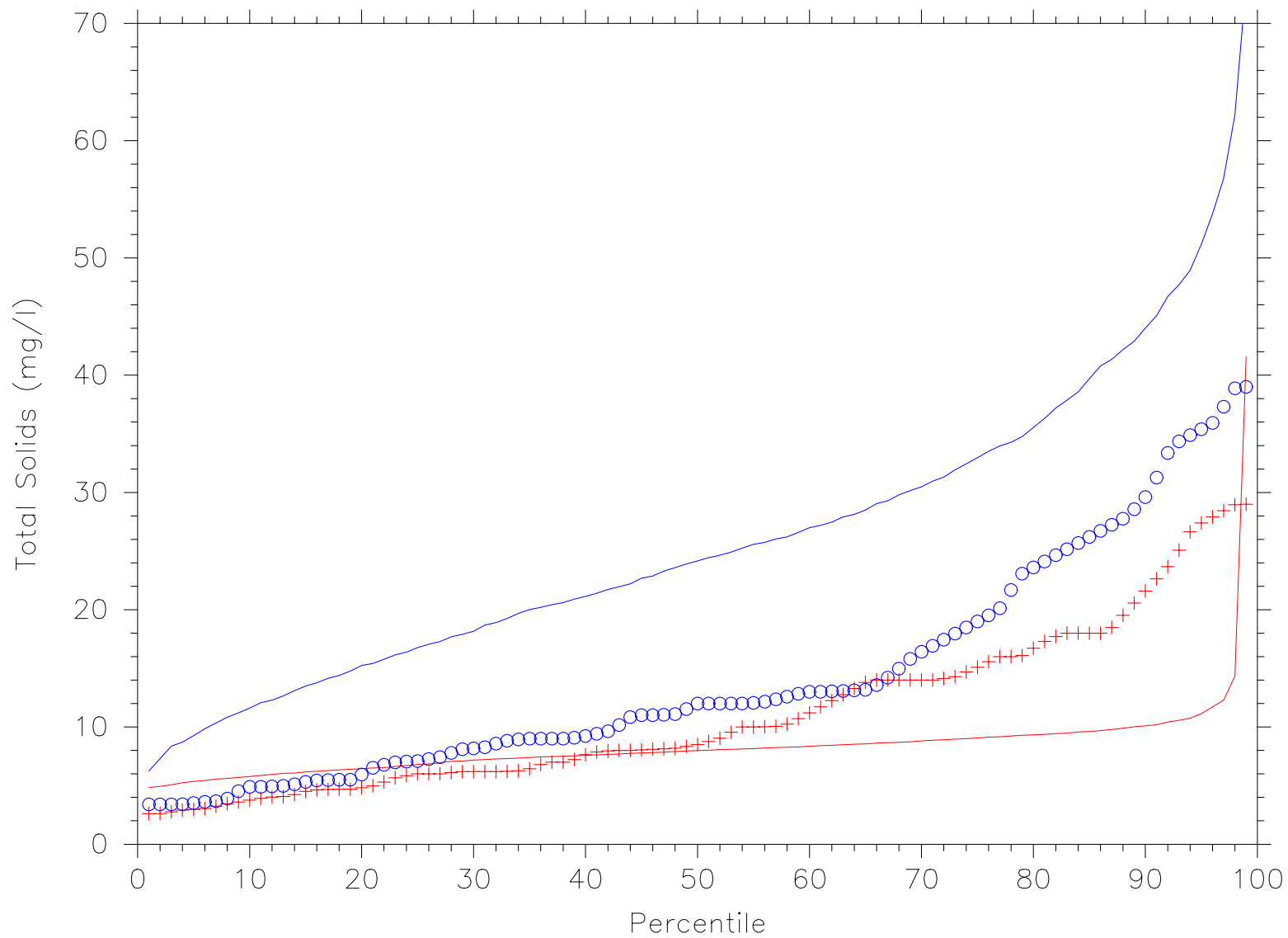
Total Organic Carbon,ET4.2



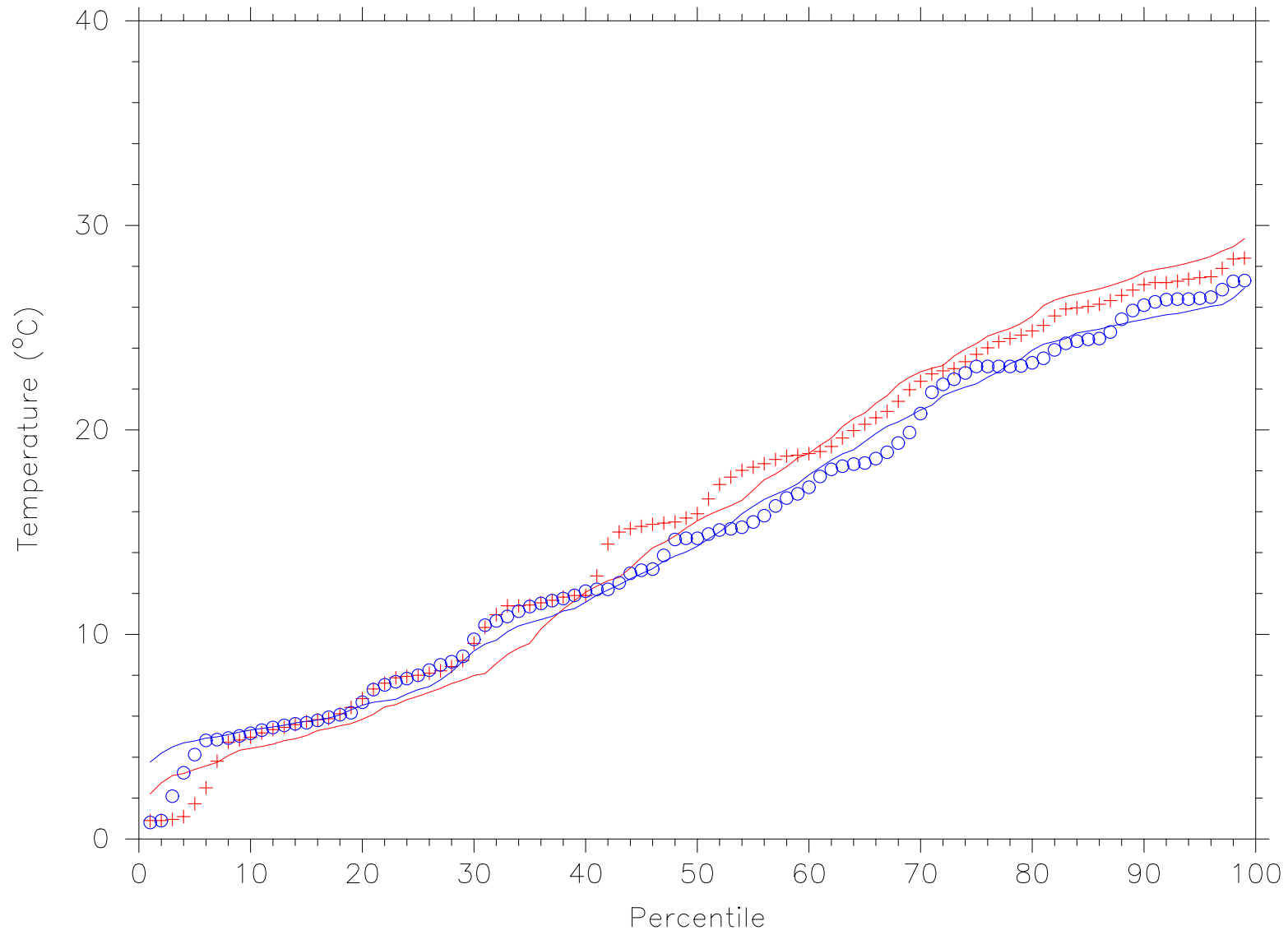
Total Phosphorus,ET4.2



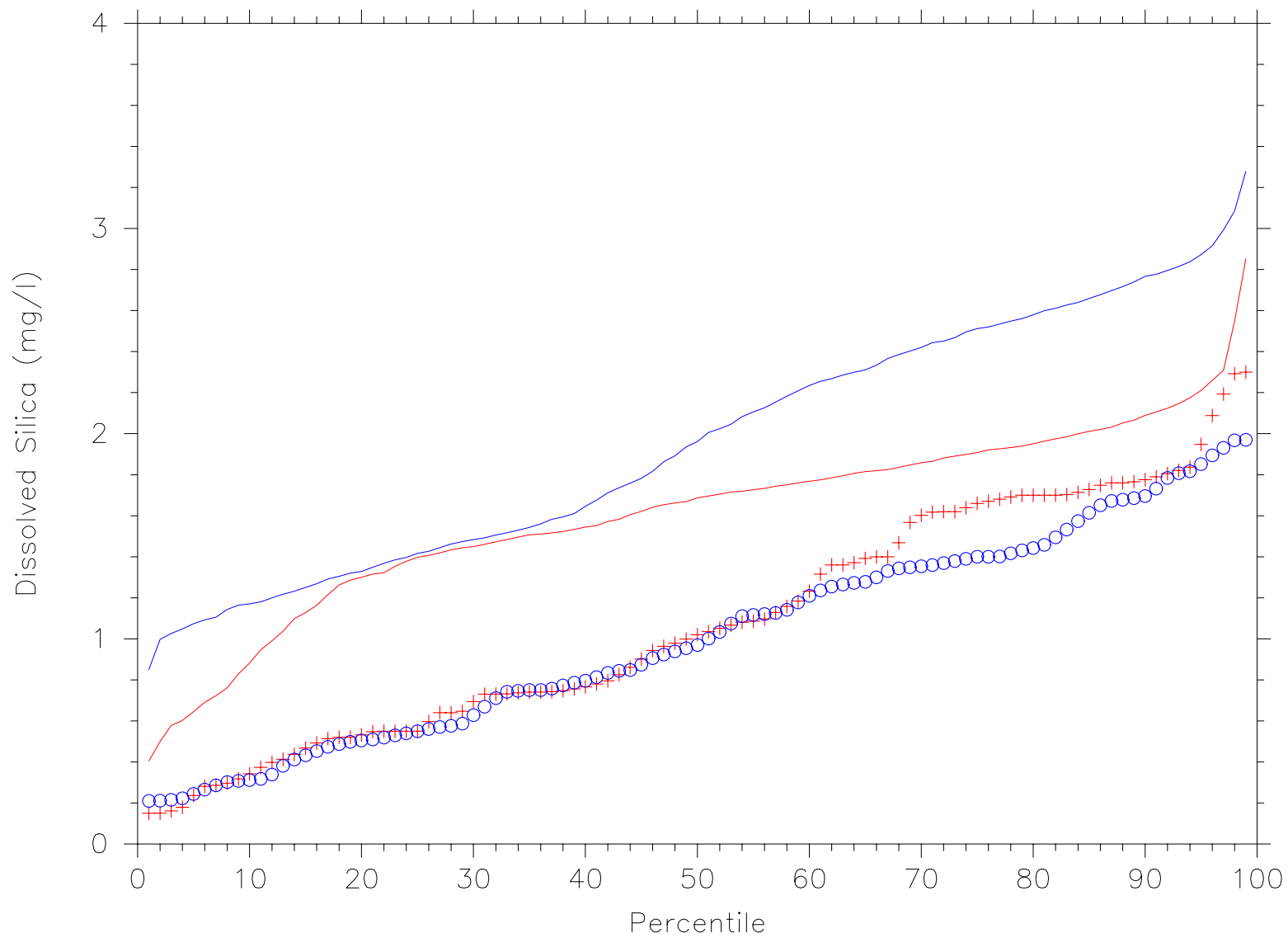
Total Solids,ET4.2



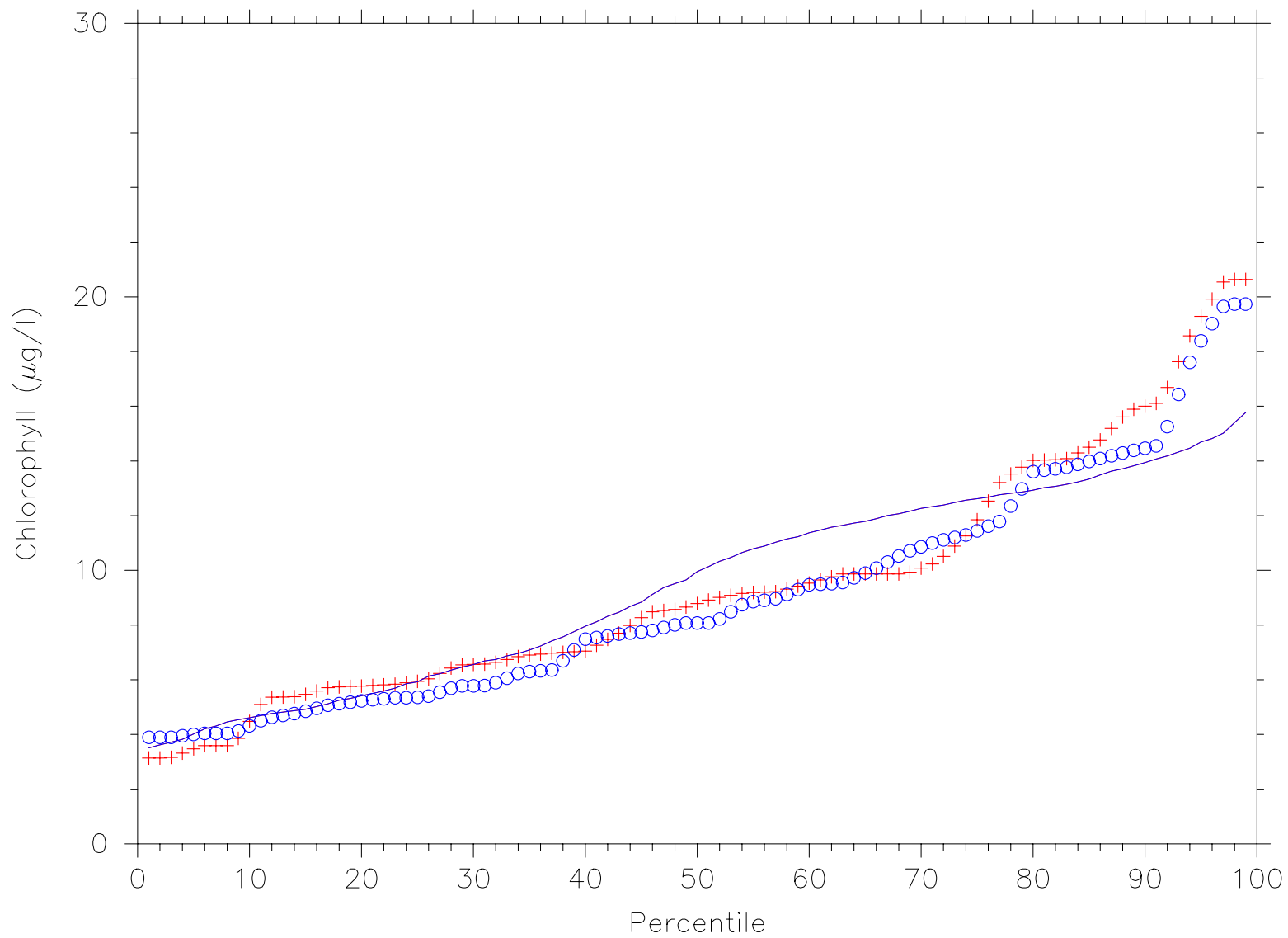
Temperature,ET4.2



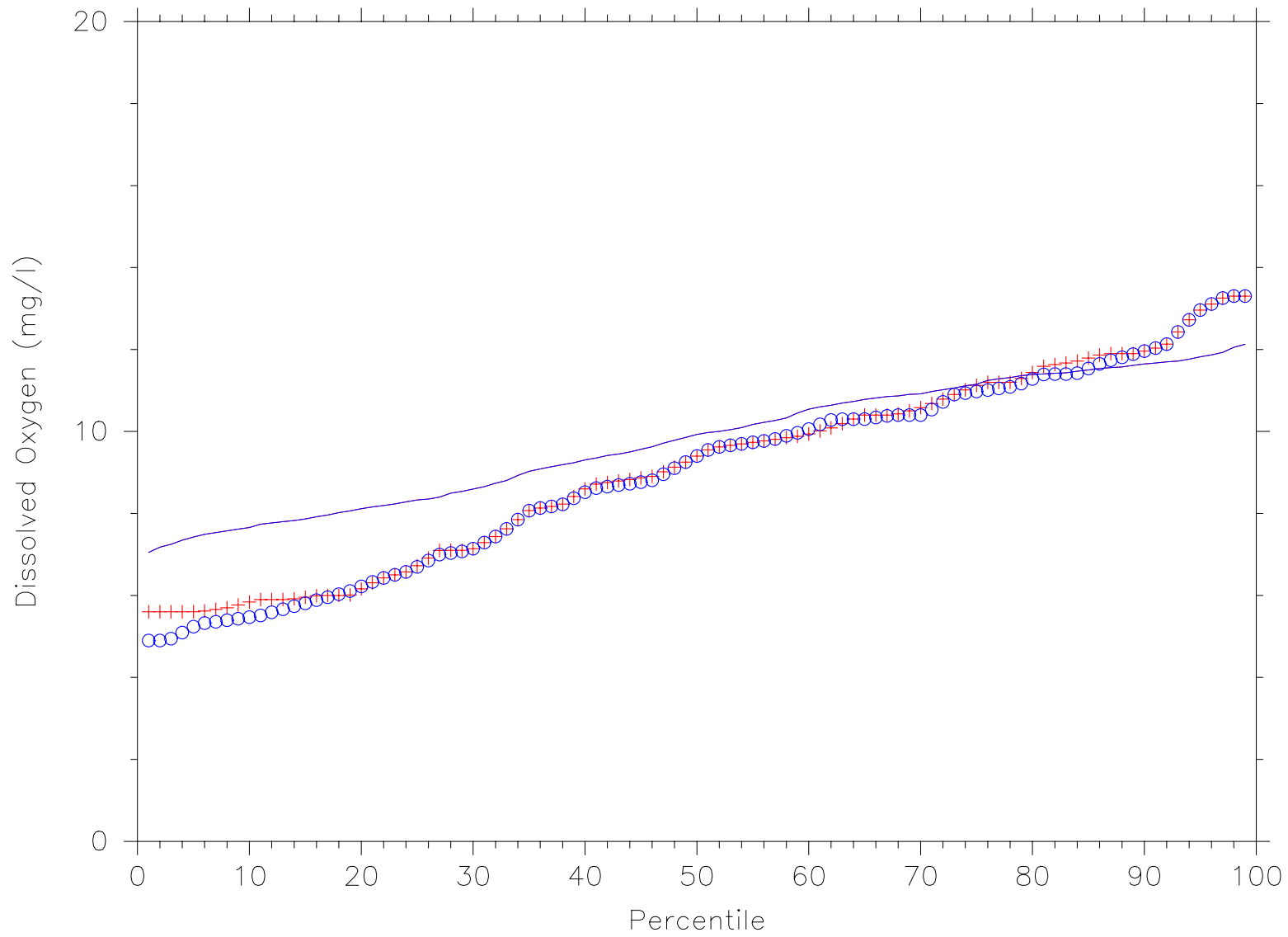
Dissolved Silica, ET4.2



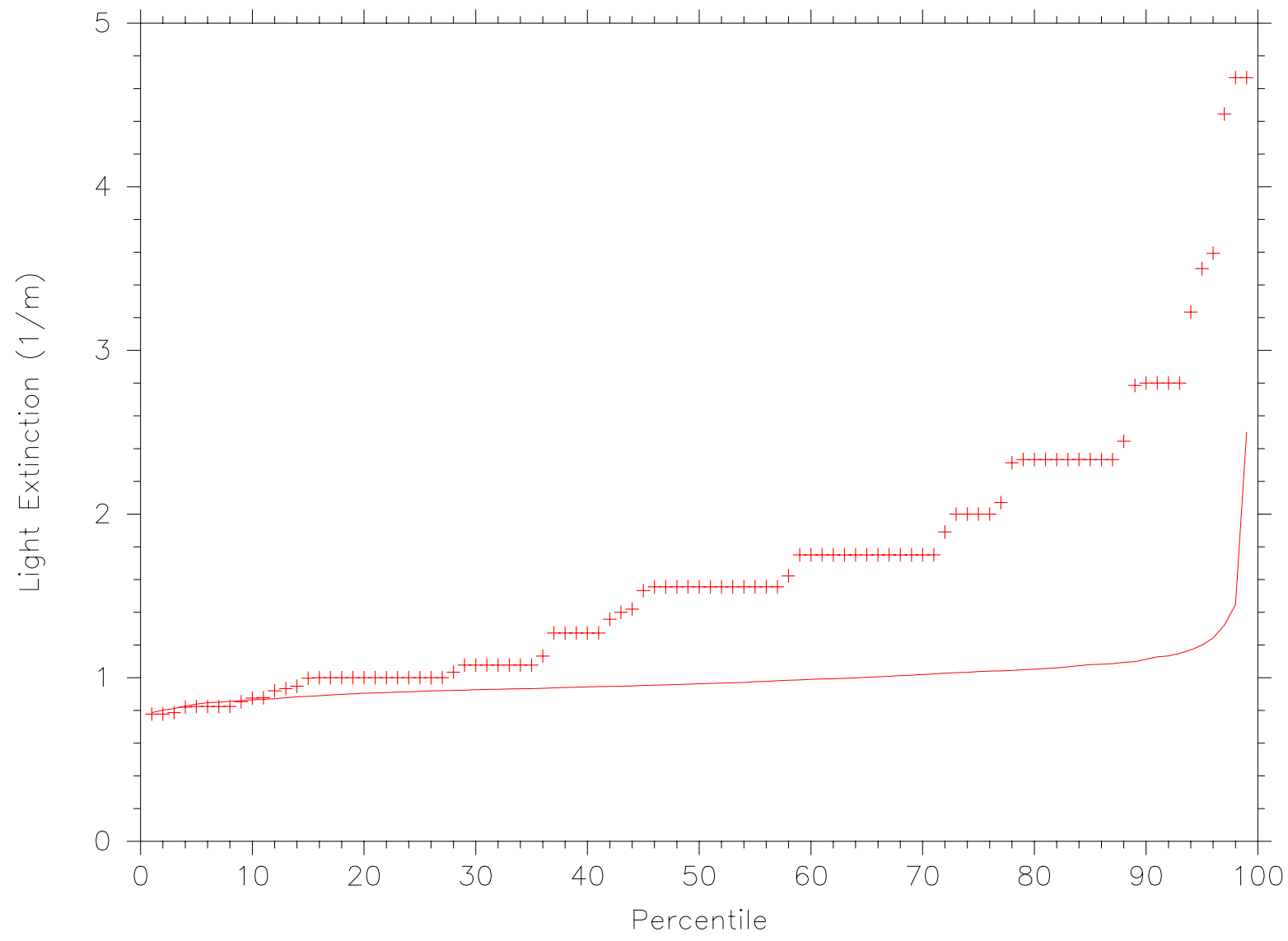
Chlorophyll,XGG8251



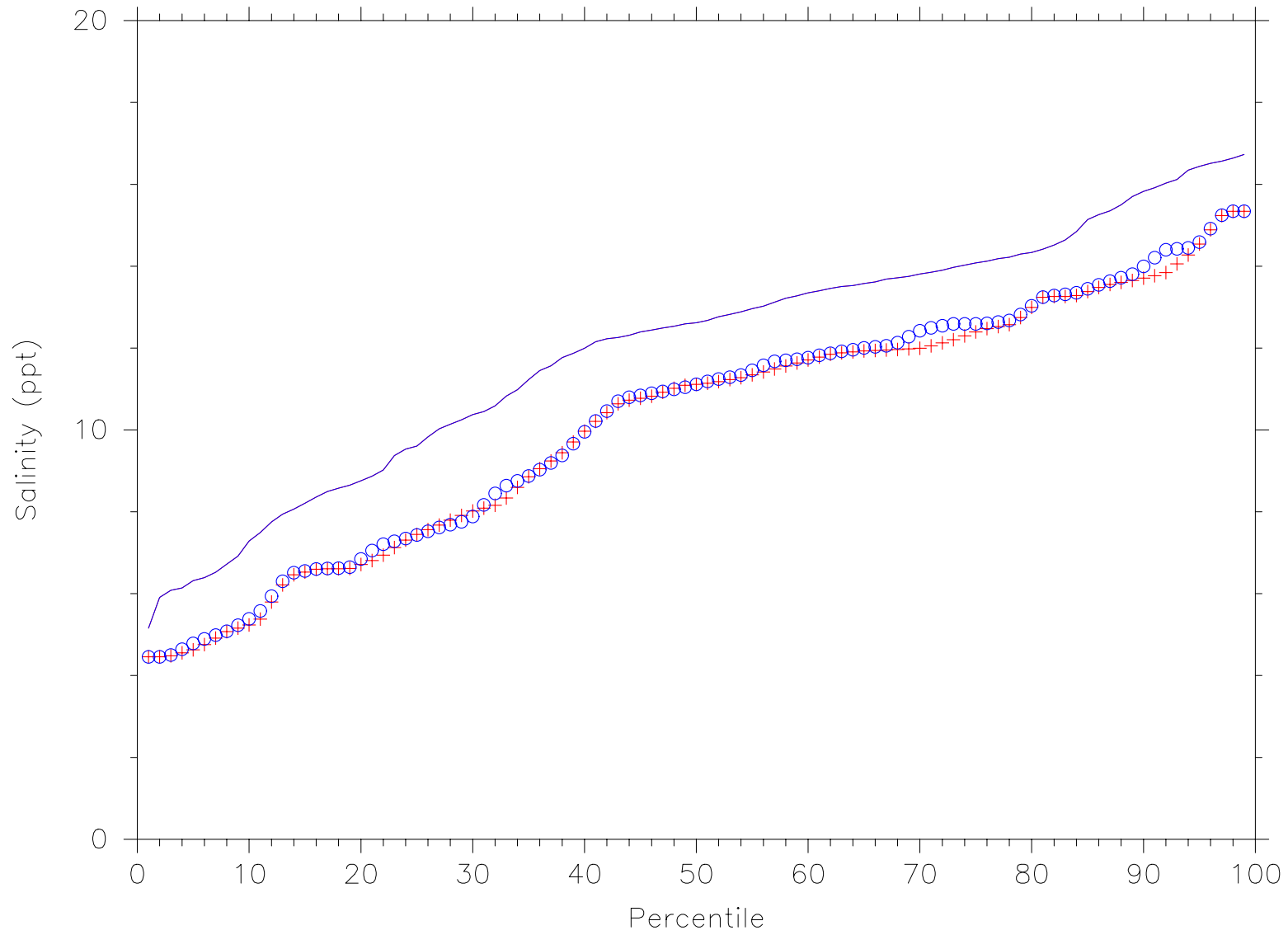
Dissolved Oxygen, XGG8251



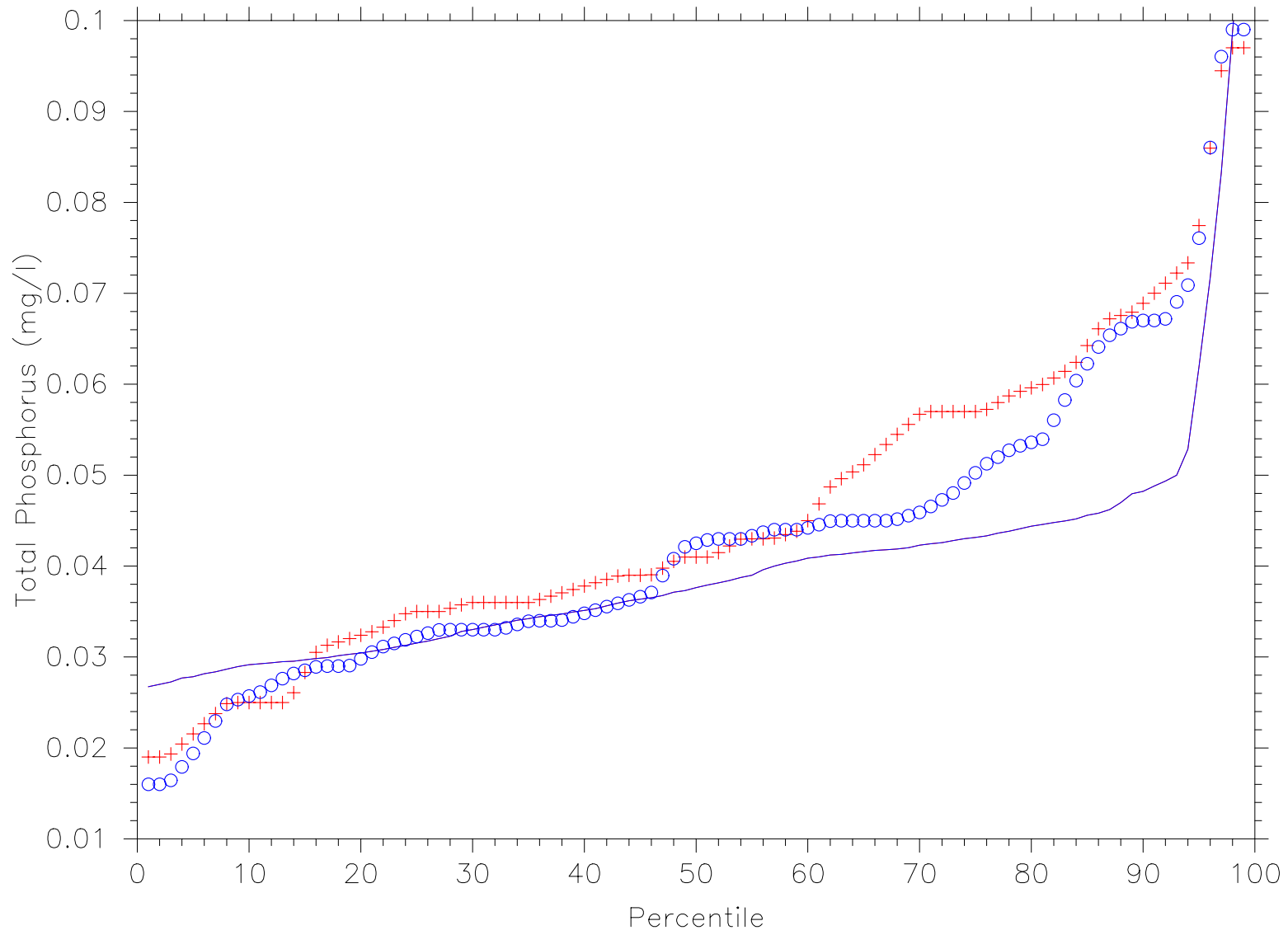
Light Extinction,XGG8251



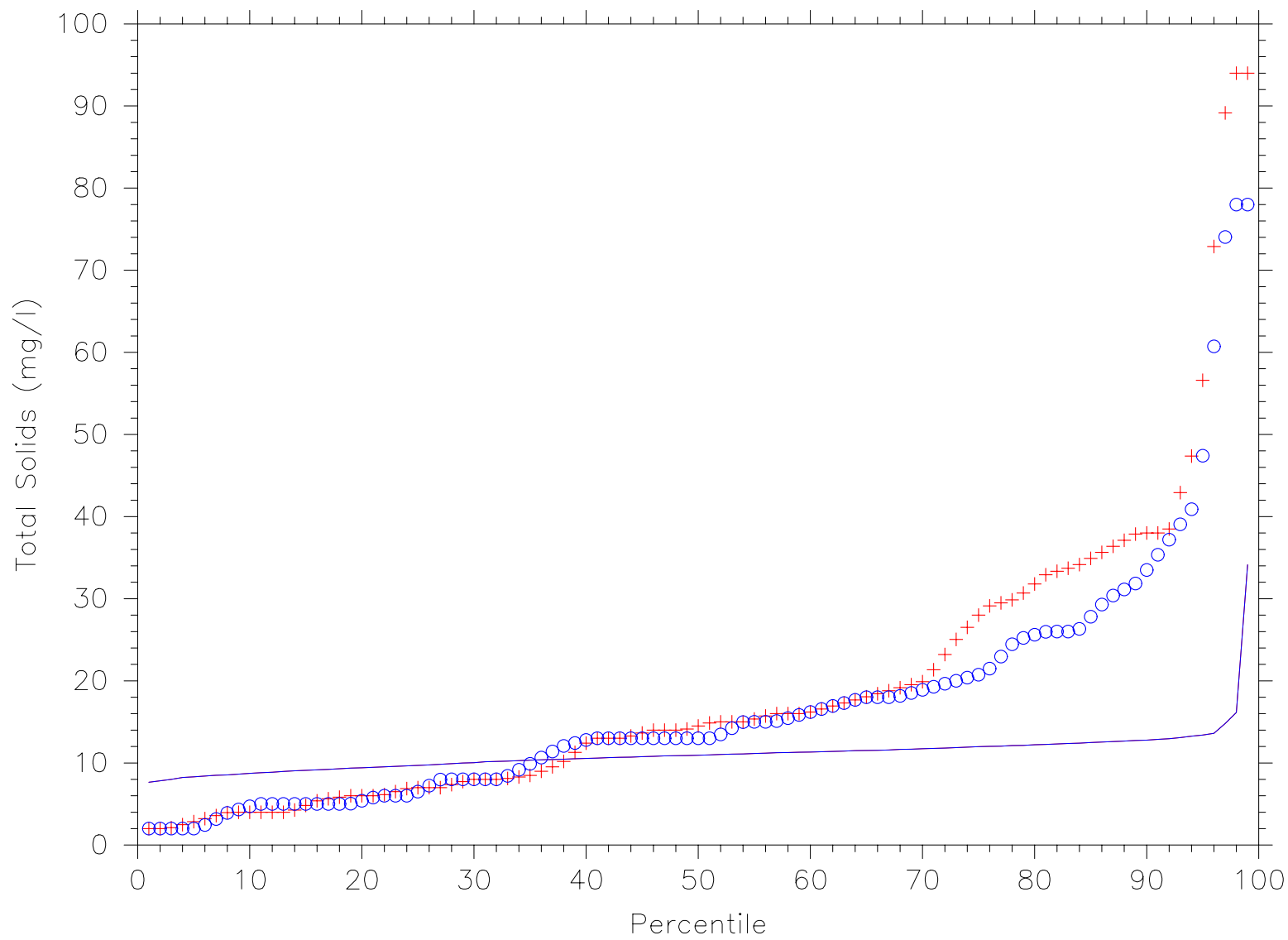
Salinity,XGG8251



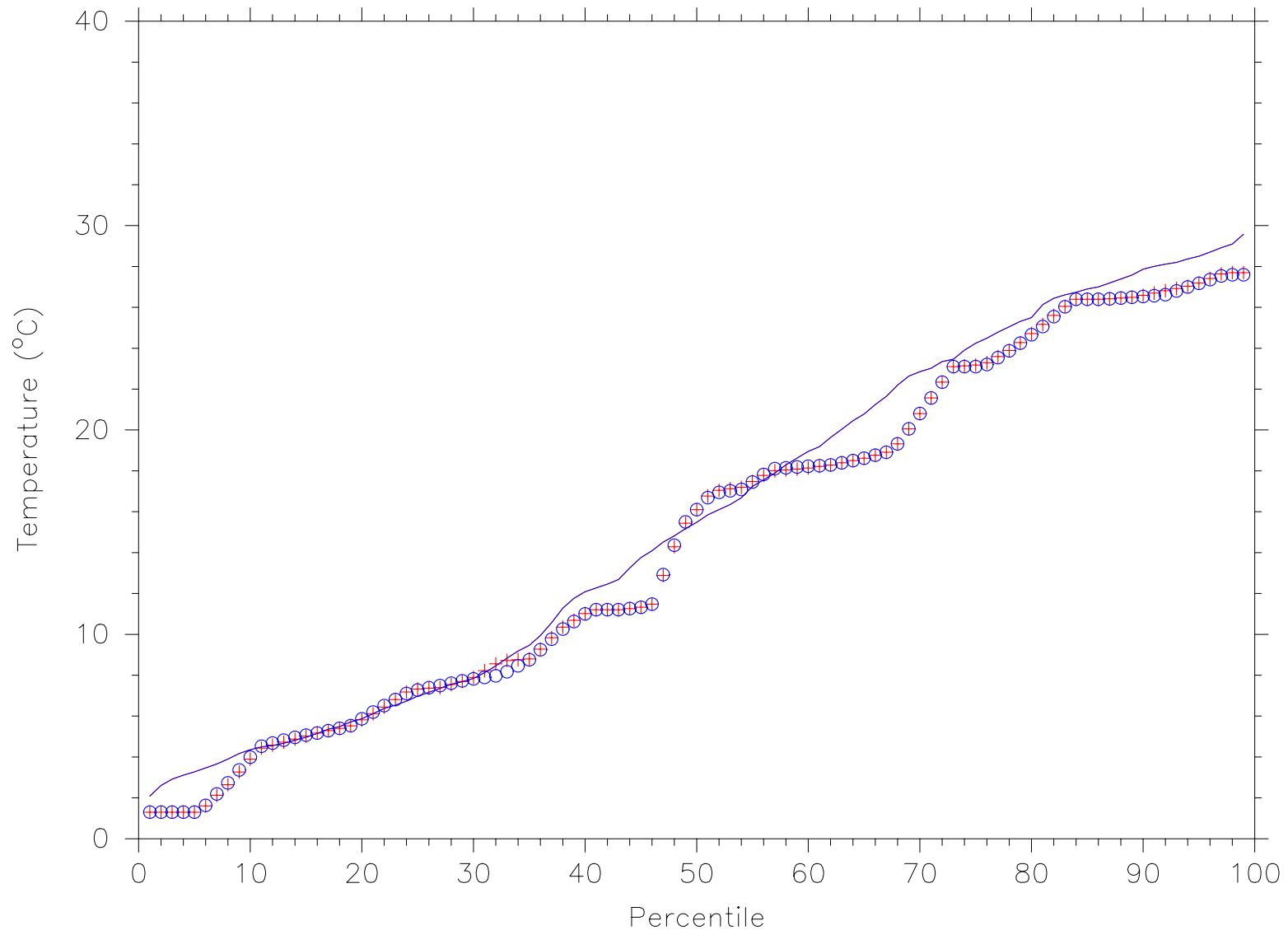
Total Phosphorus,XGG8251



Total Solids, XGG8251



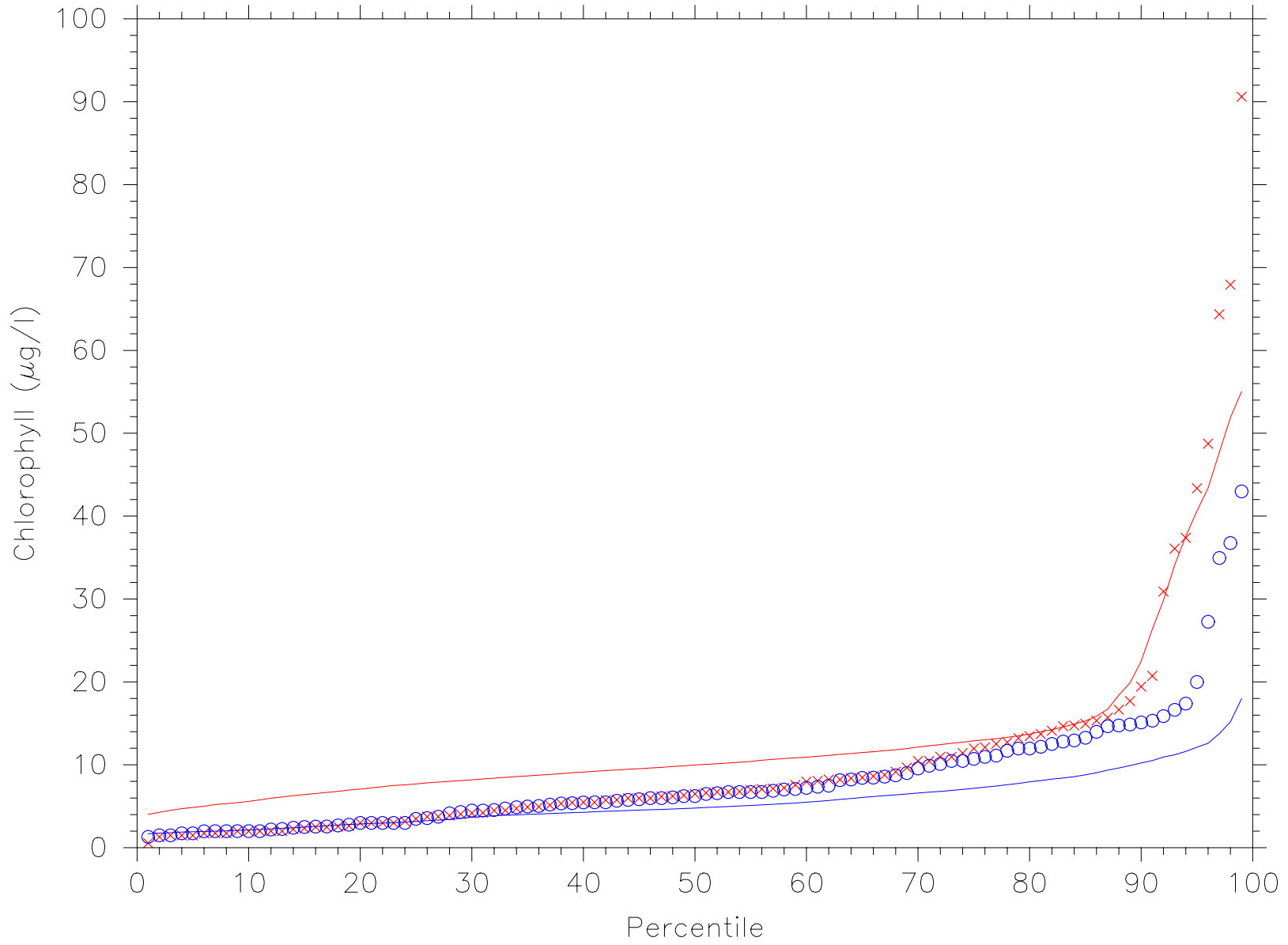
Temperature,XGG8251



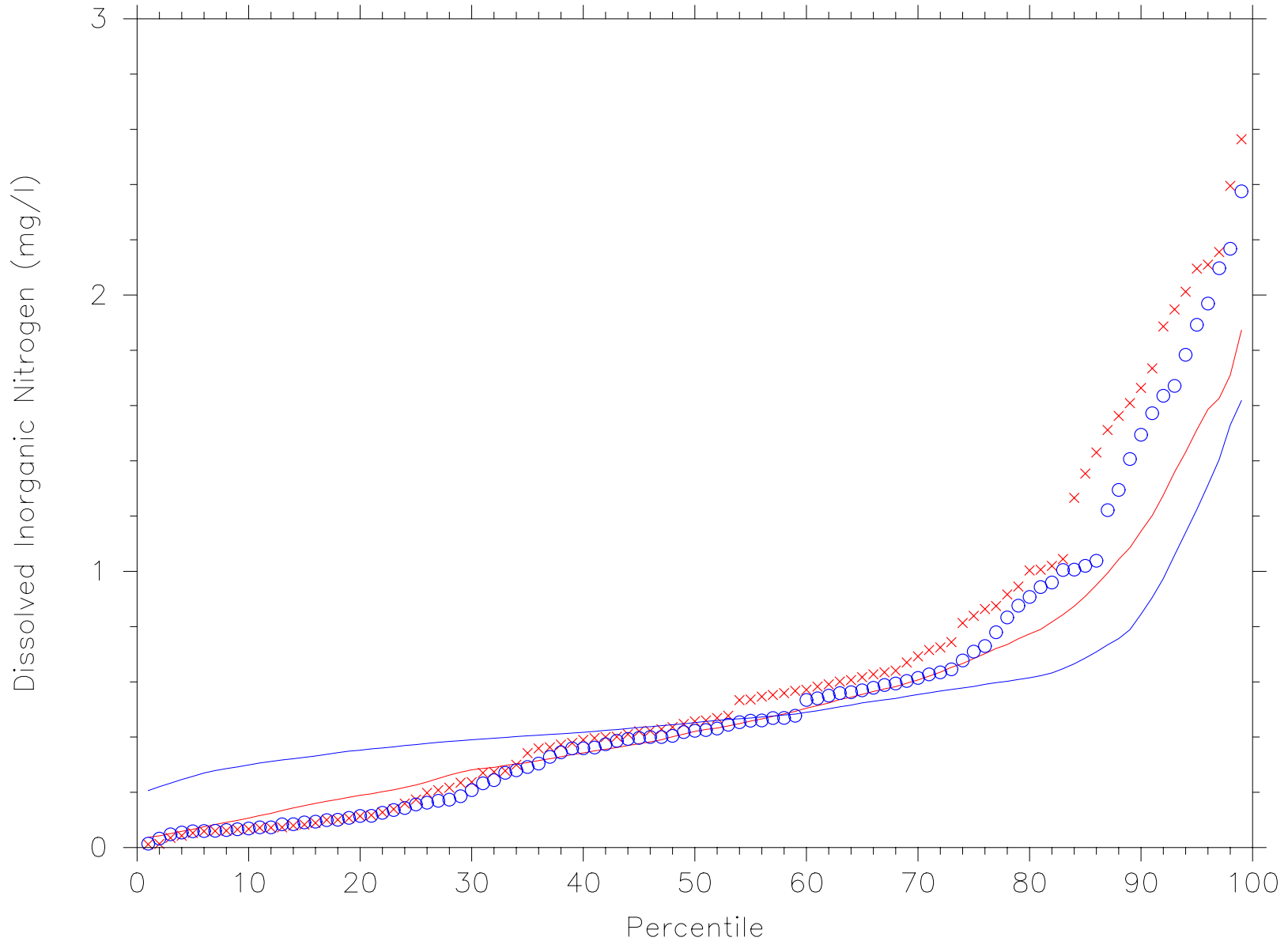
Appendix 5-C

This appendix contains cumulative distribution plots of observed and computed properties (surface and bottom) at 1999 MDE intensive survey stations in the Chester River.

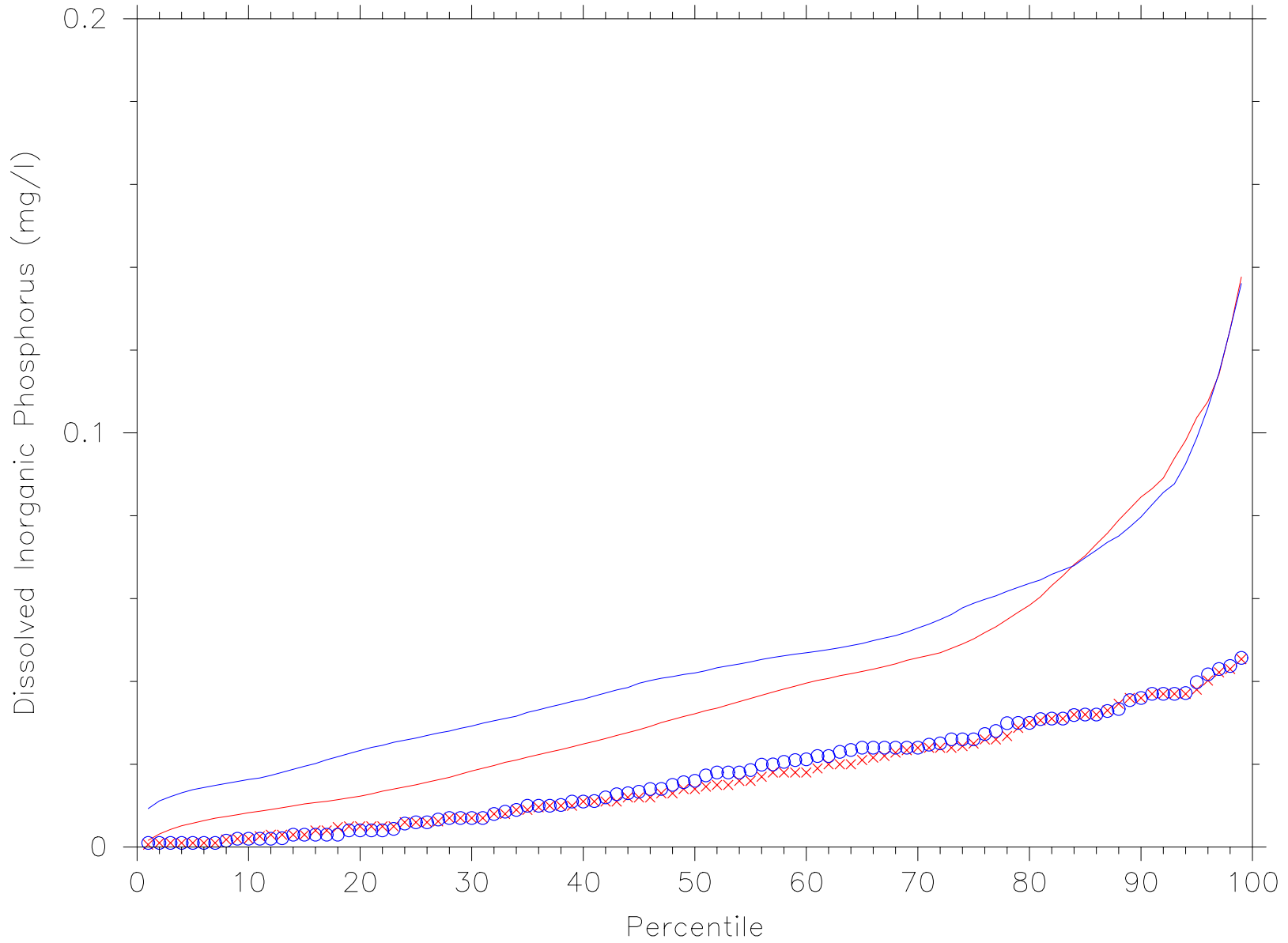
Chlorophyll, Chester River



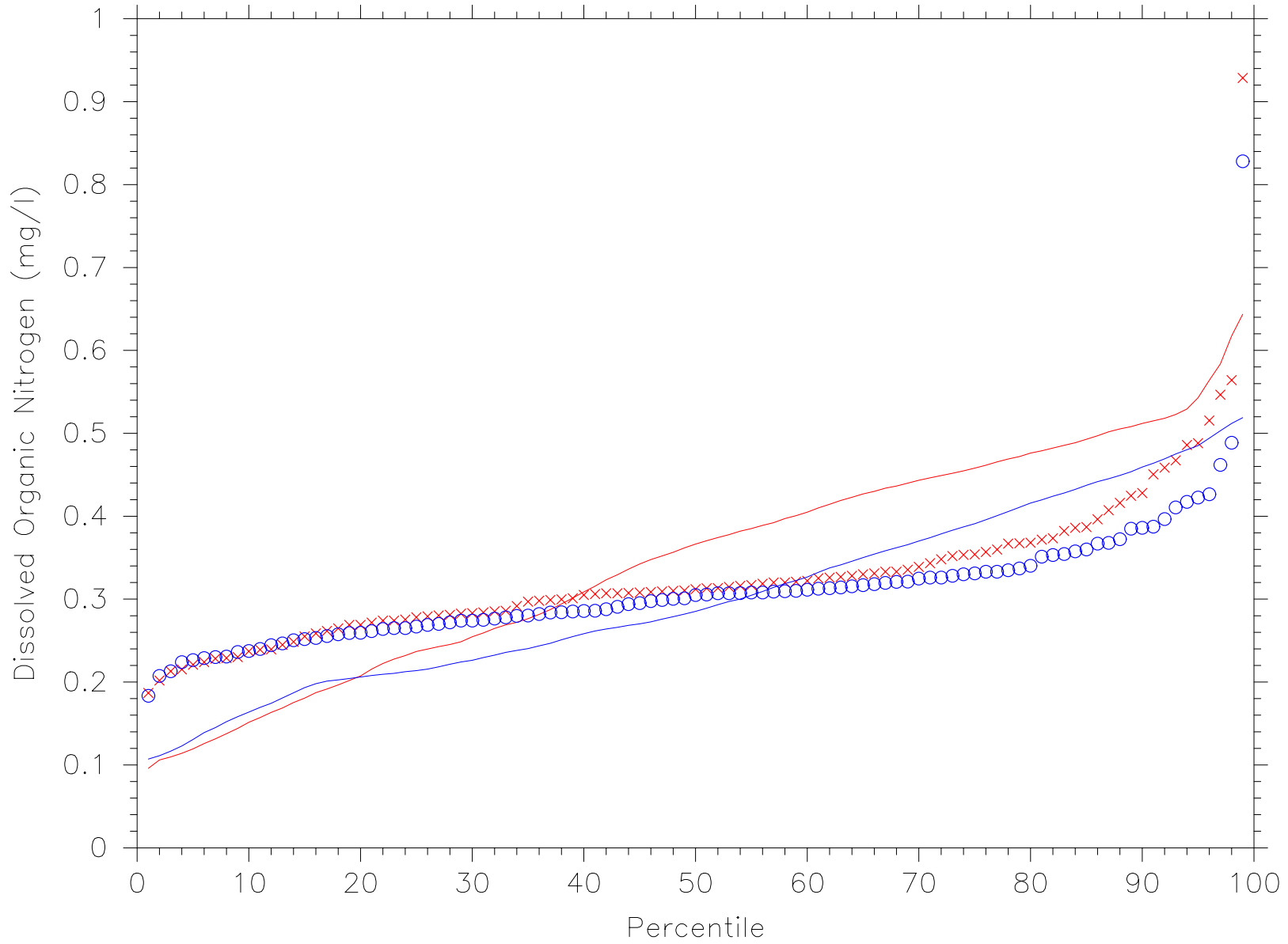
Dissolved Inorganic Nitrogen, Chester River



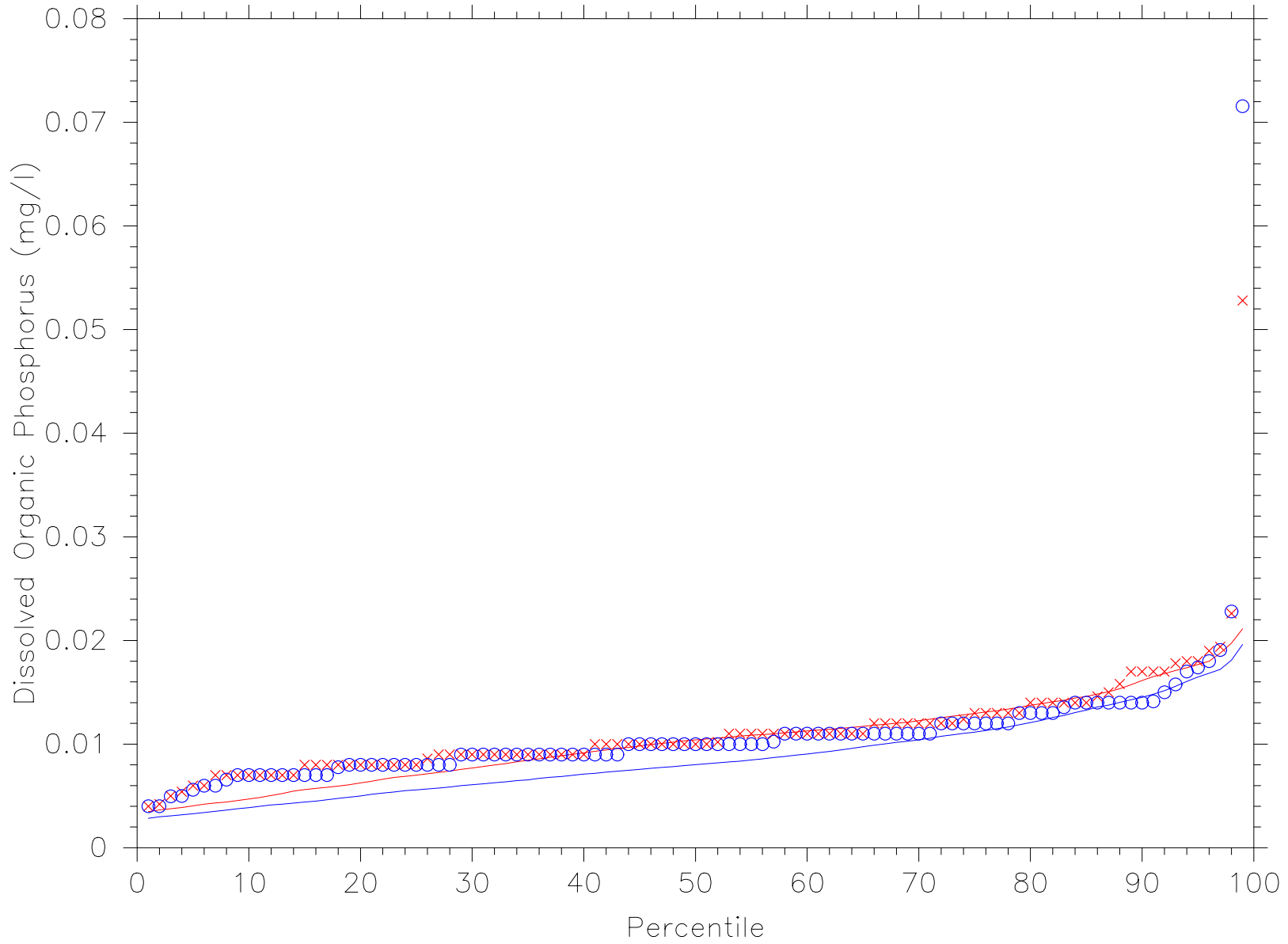
Dissolved Inorganic Phosphorus, Chester River



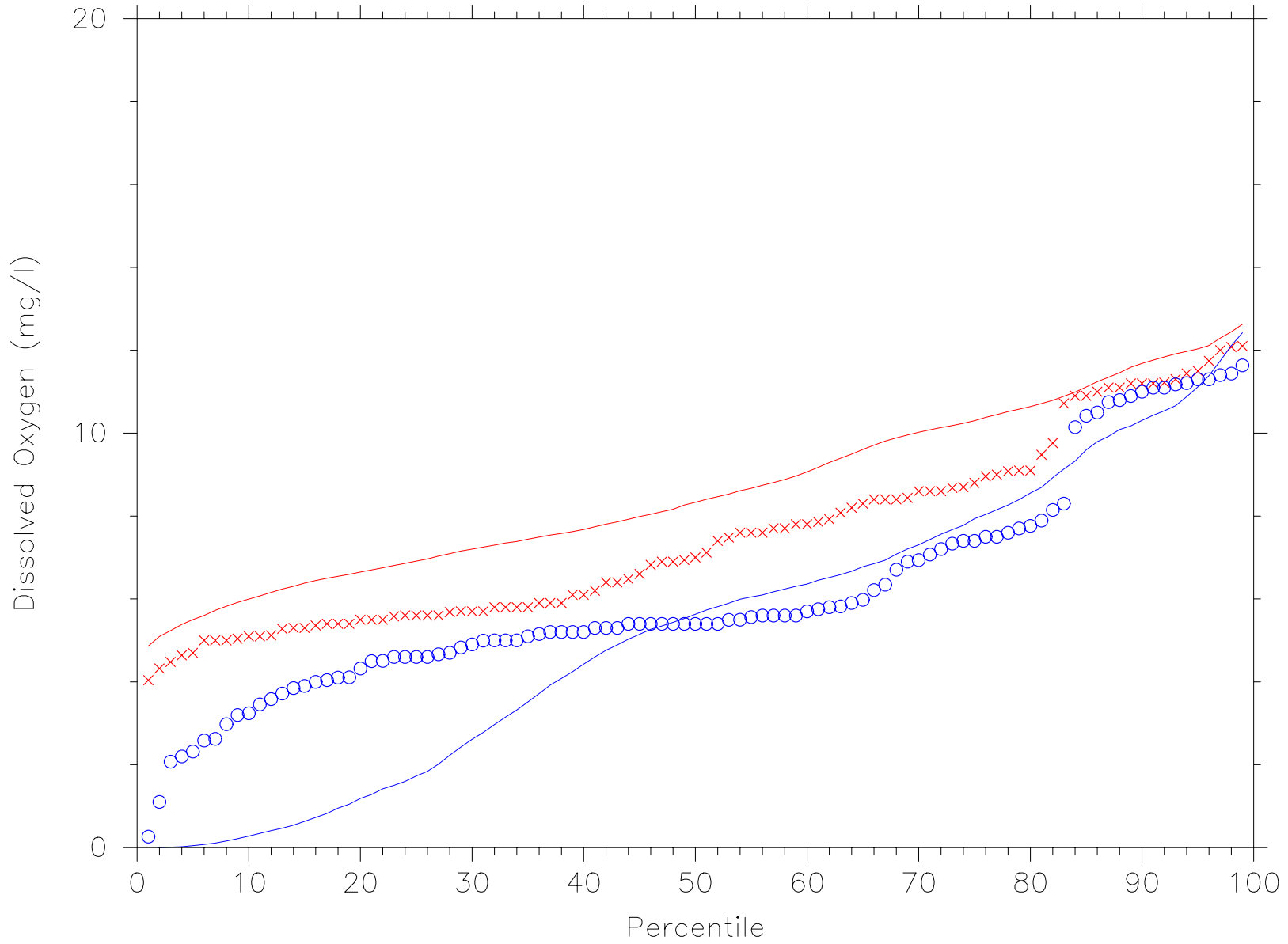
Dissolved Organic Nitrogen, Chester River



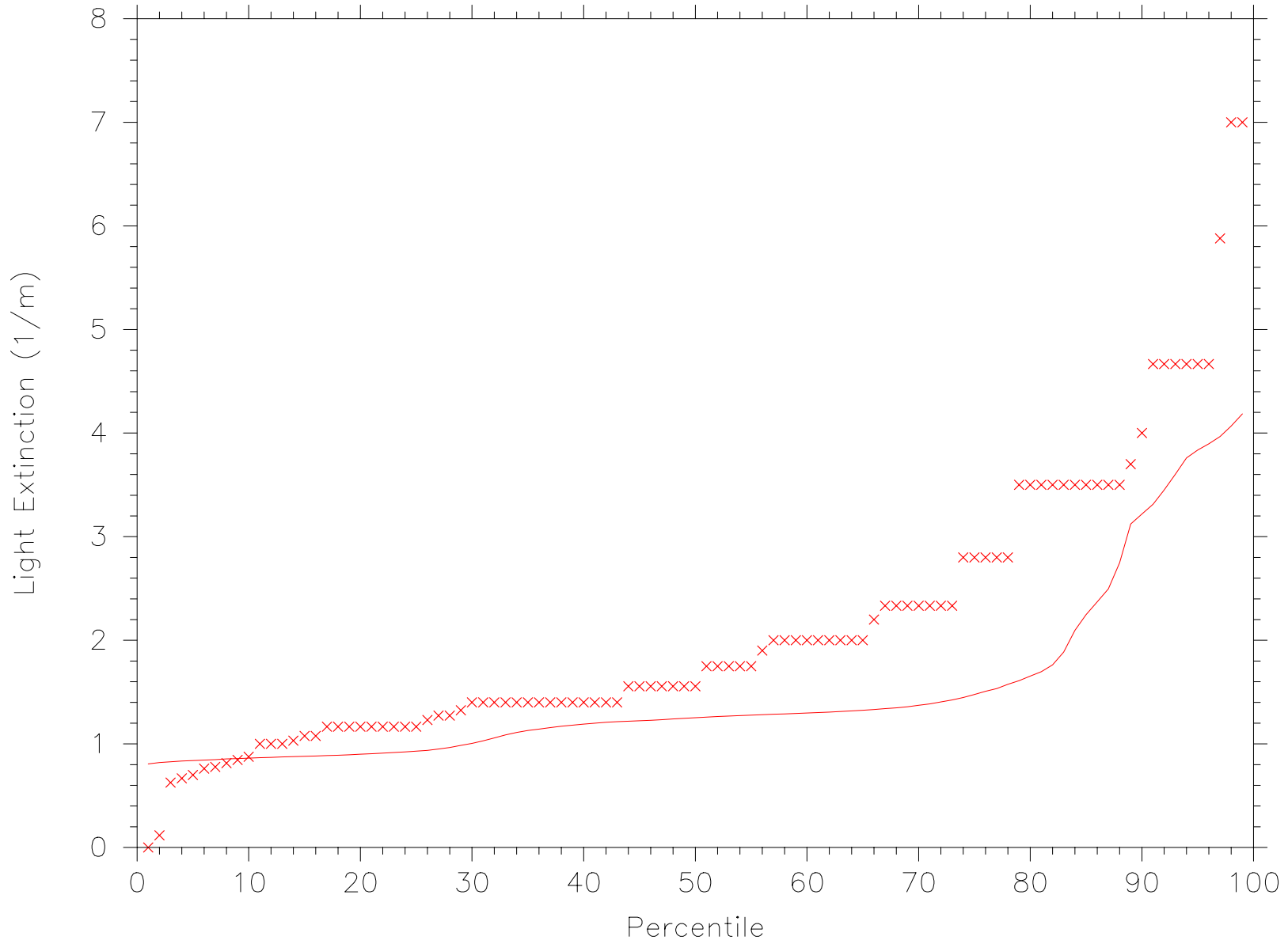
Dissolved Organic Phosphorus, Chester River



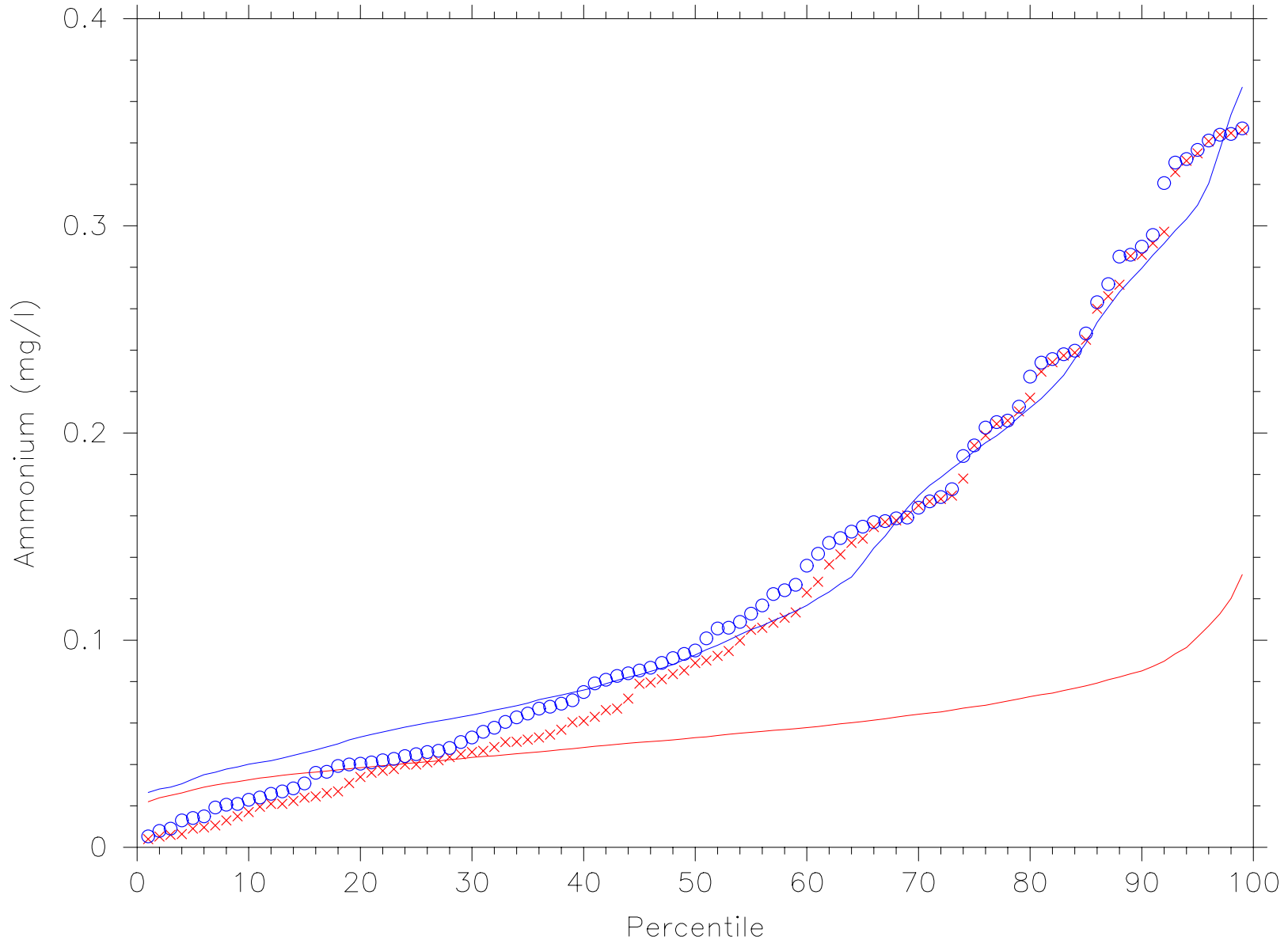
Dissolved Oxygen, Chester River



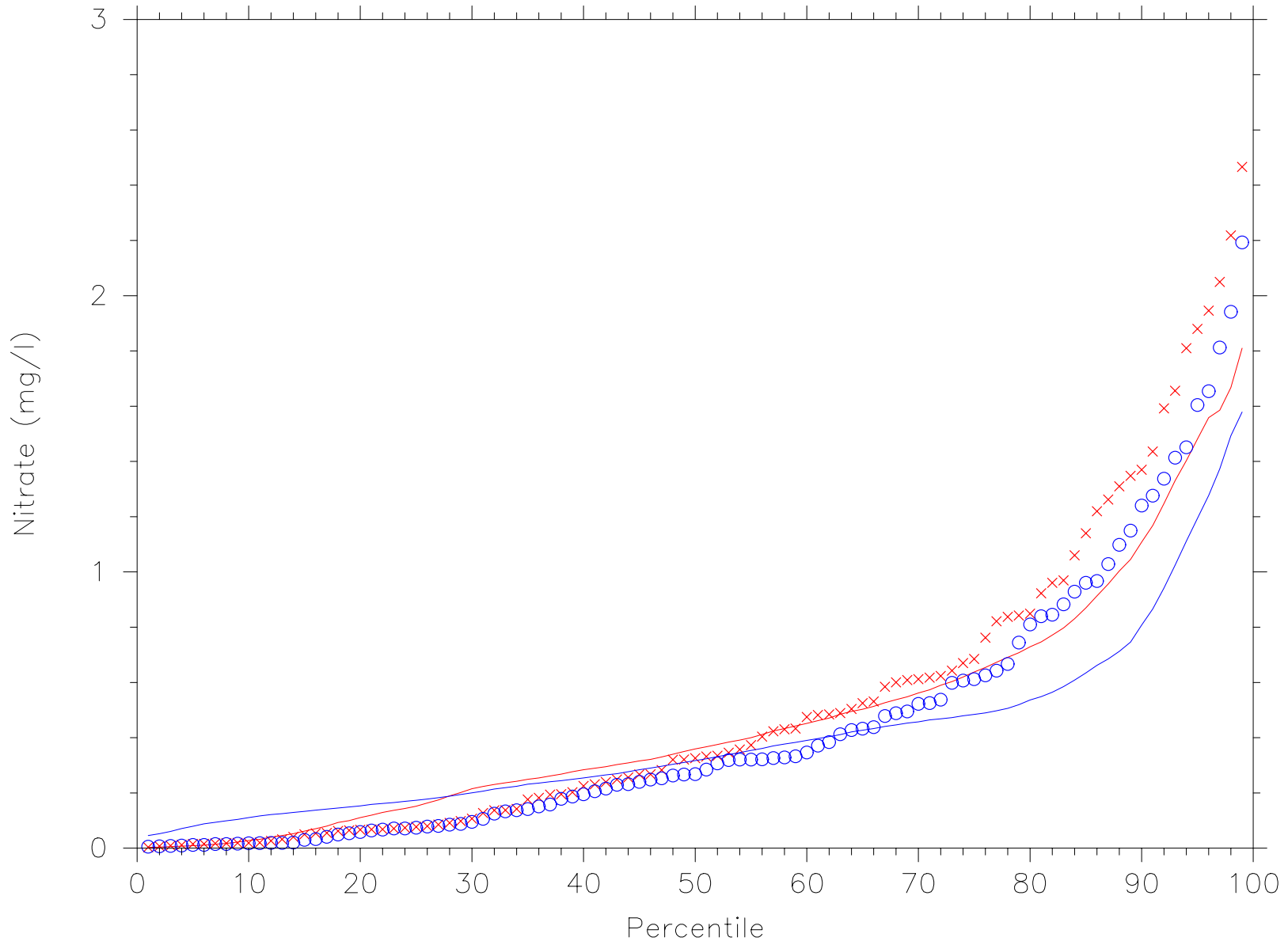
Light Extinction, Chester River



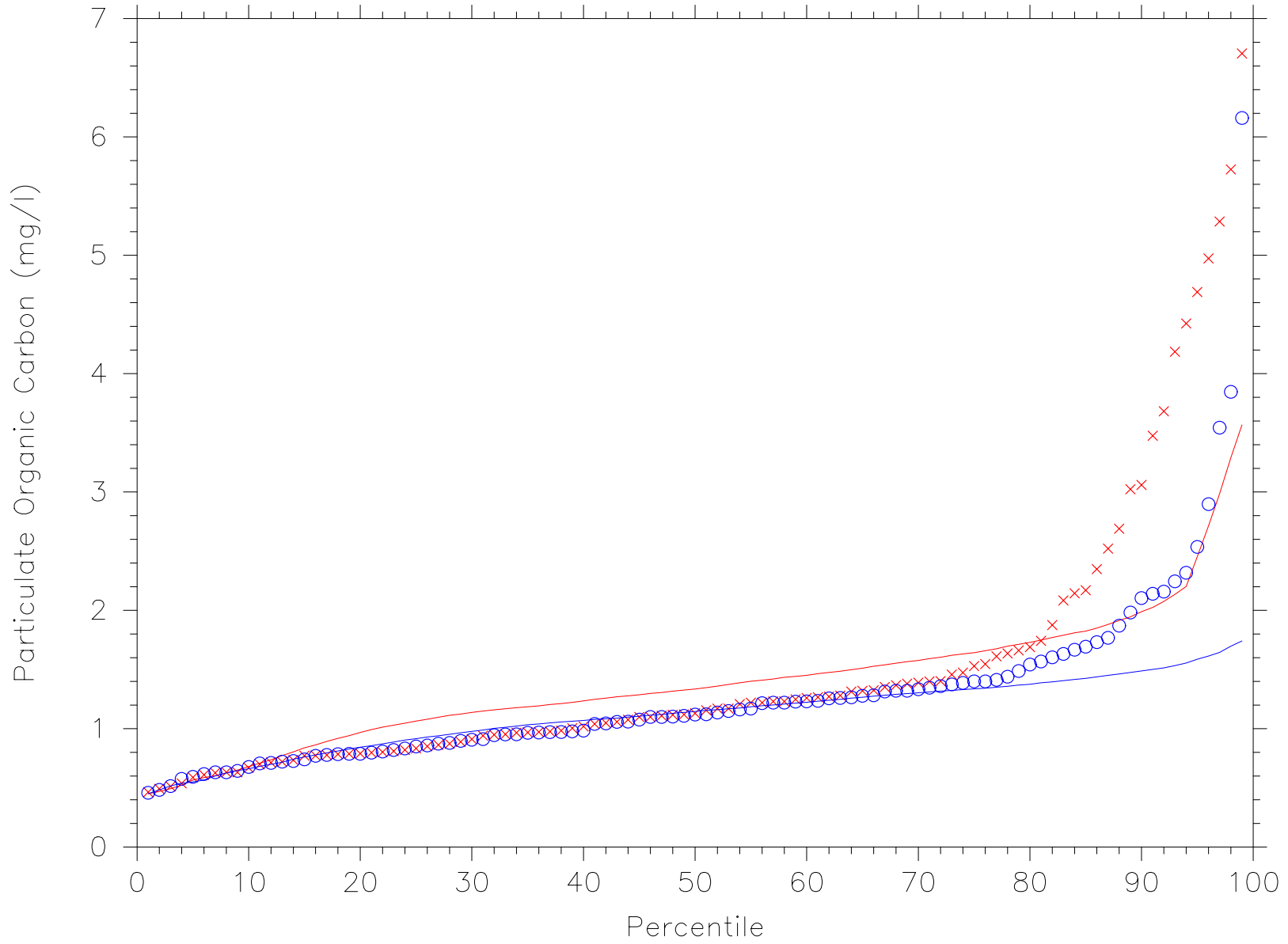
Ammonium, Chester River



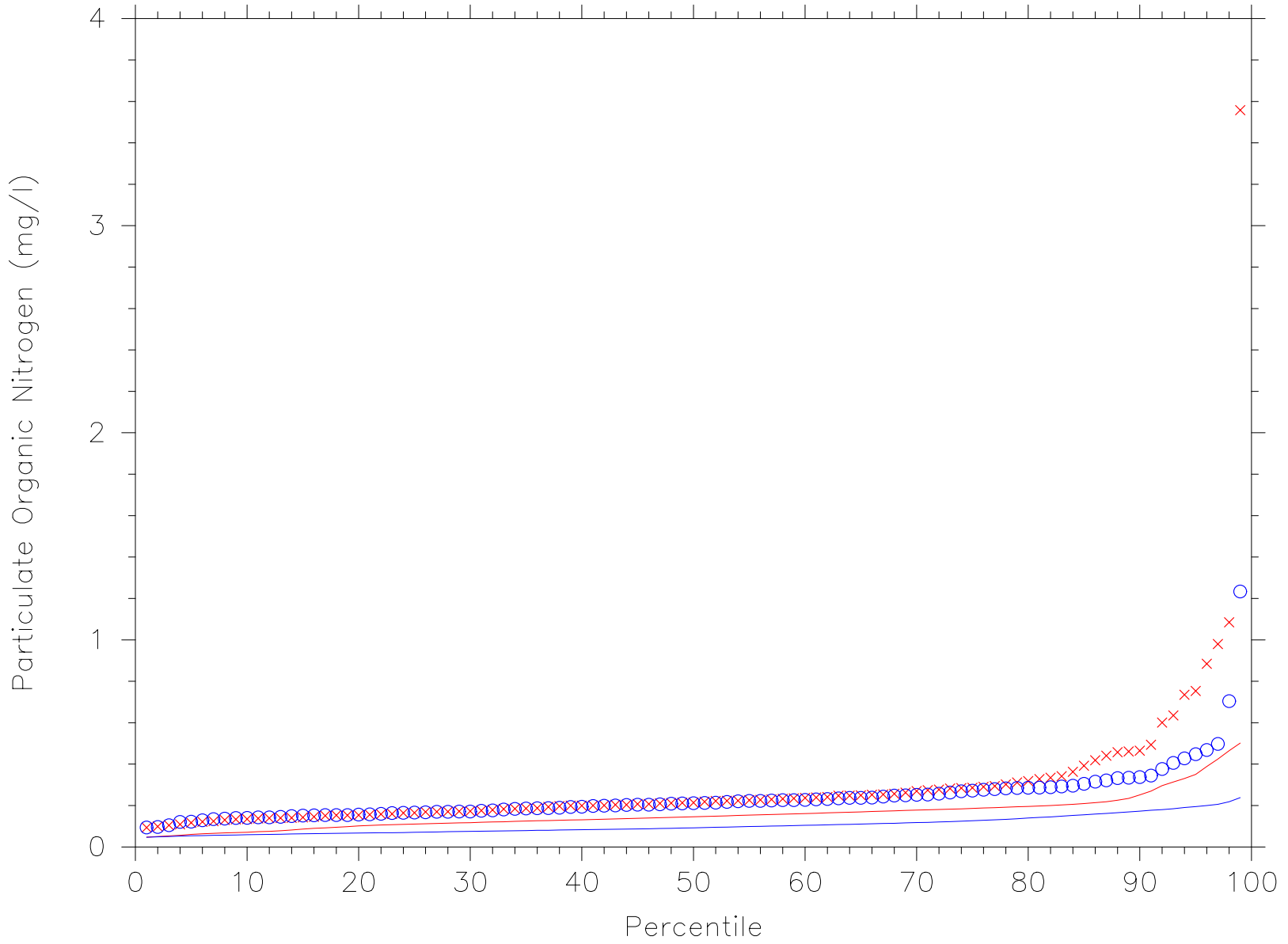
Nitrate, Chester River



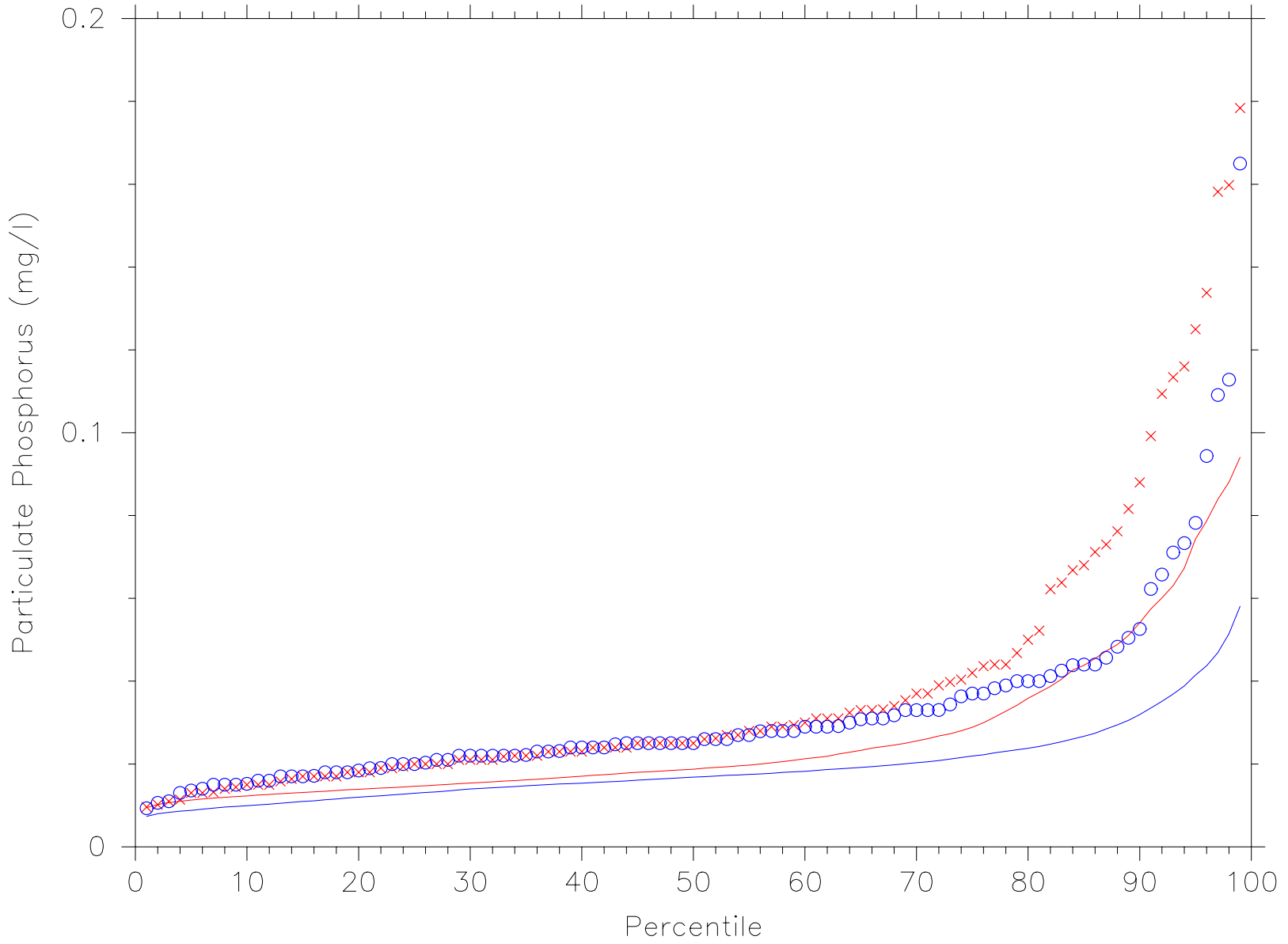
Particulate Organic Carbon, Chester River



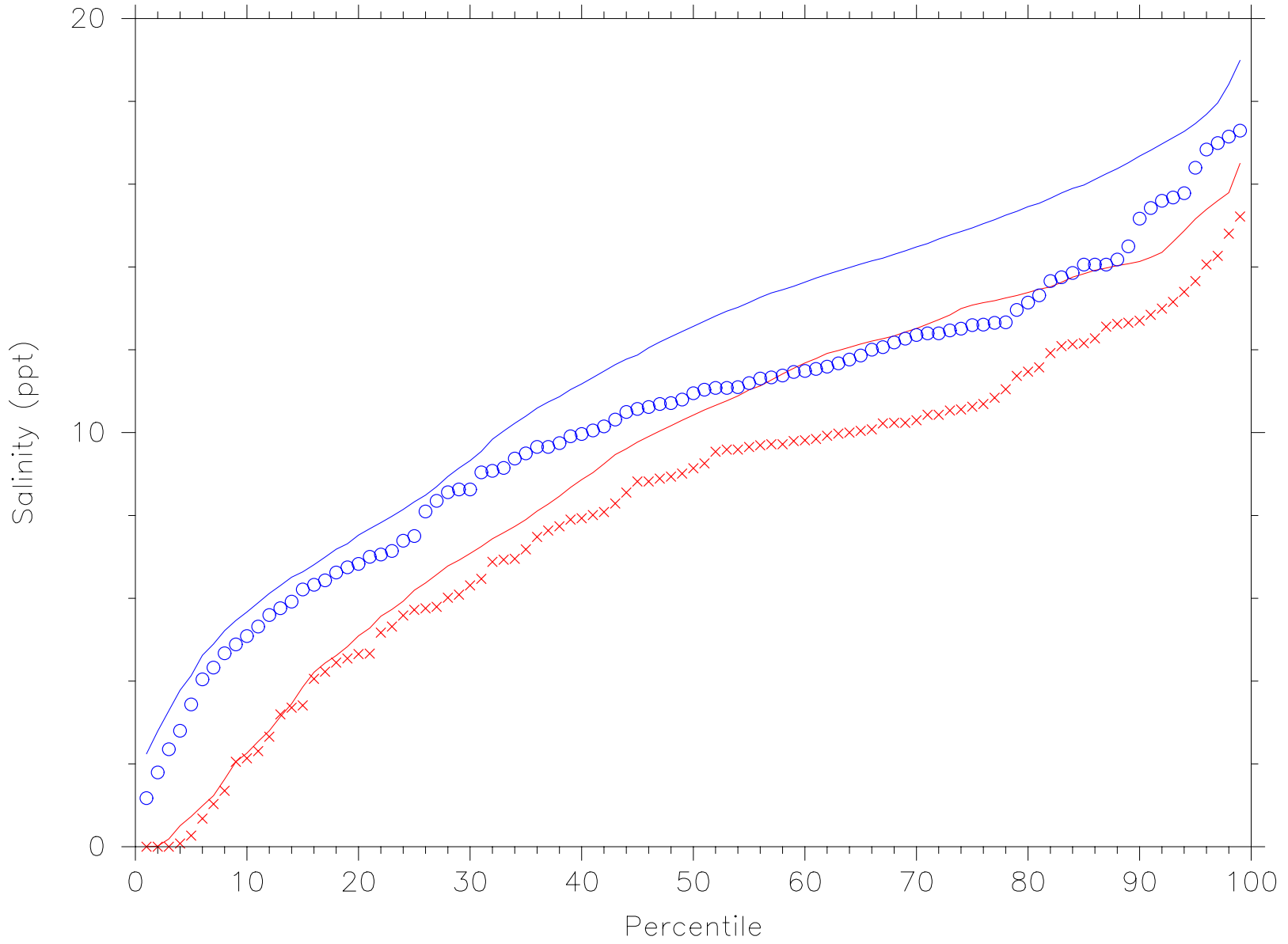
Particulate Organic Nitrogen, Chester River



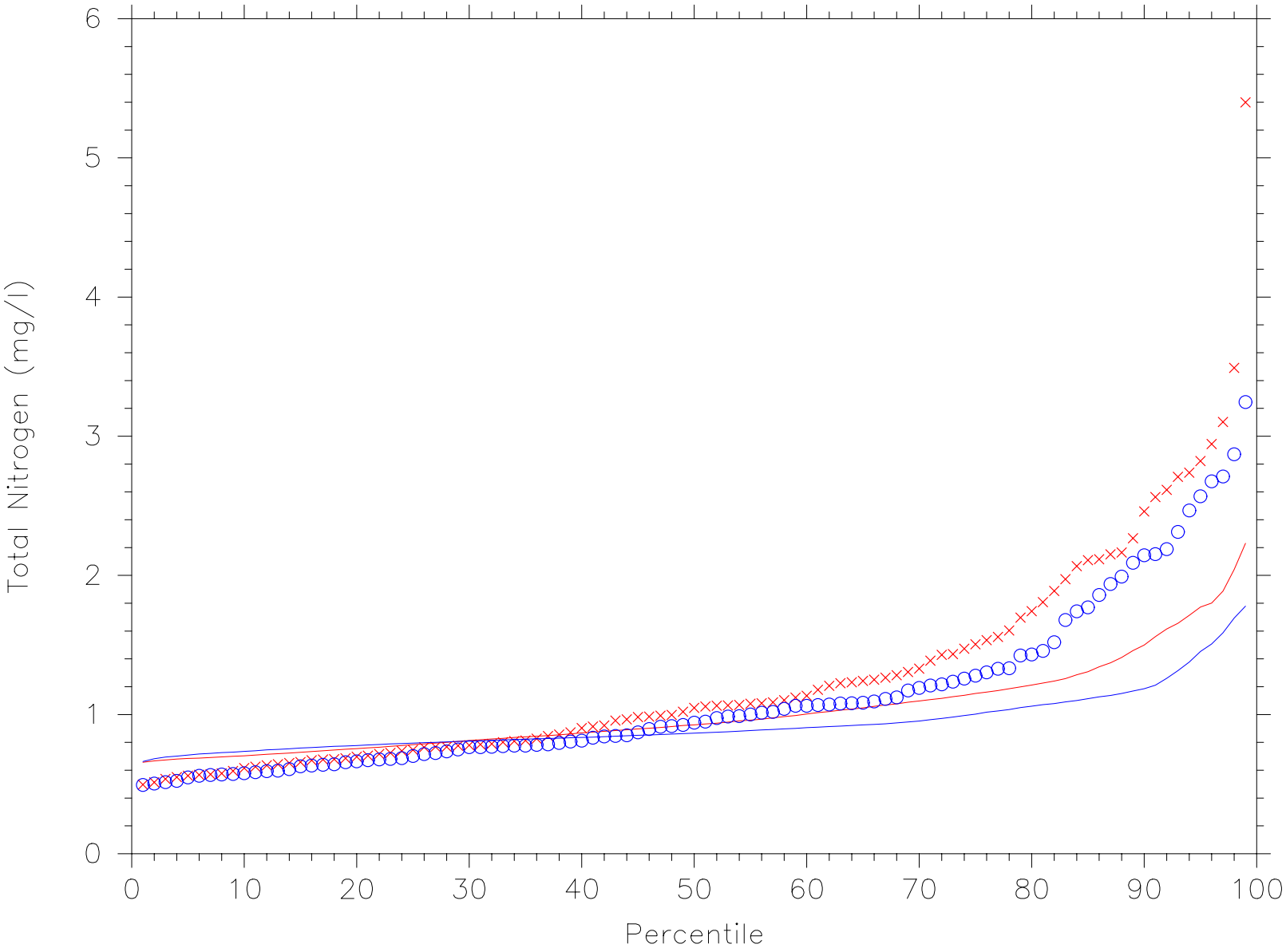
Particulate Phosphorus, Chester River



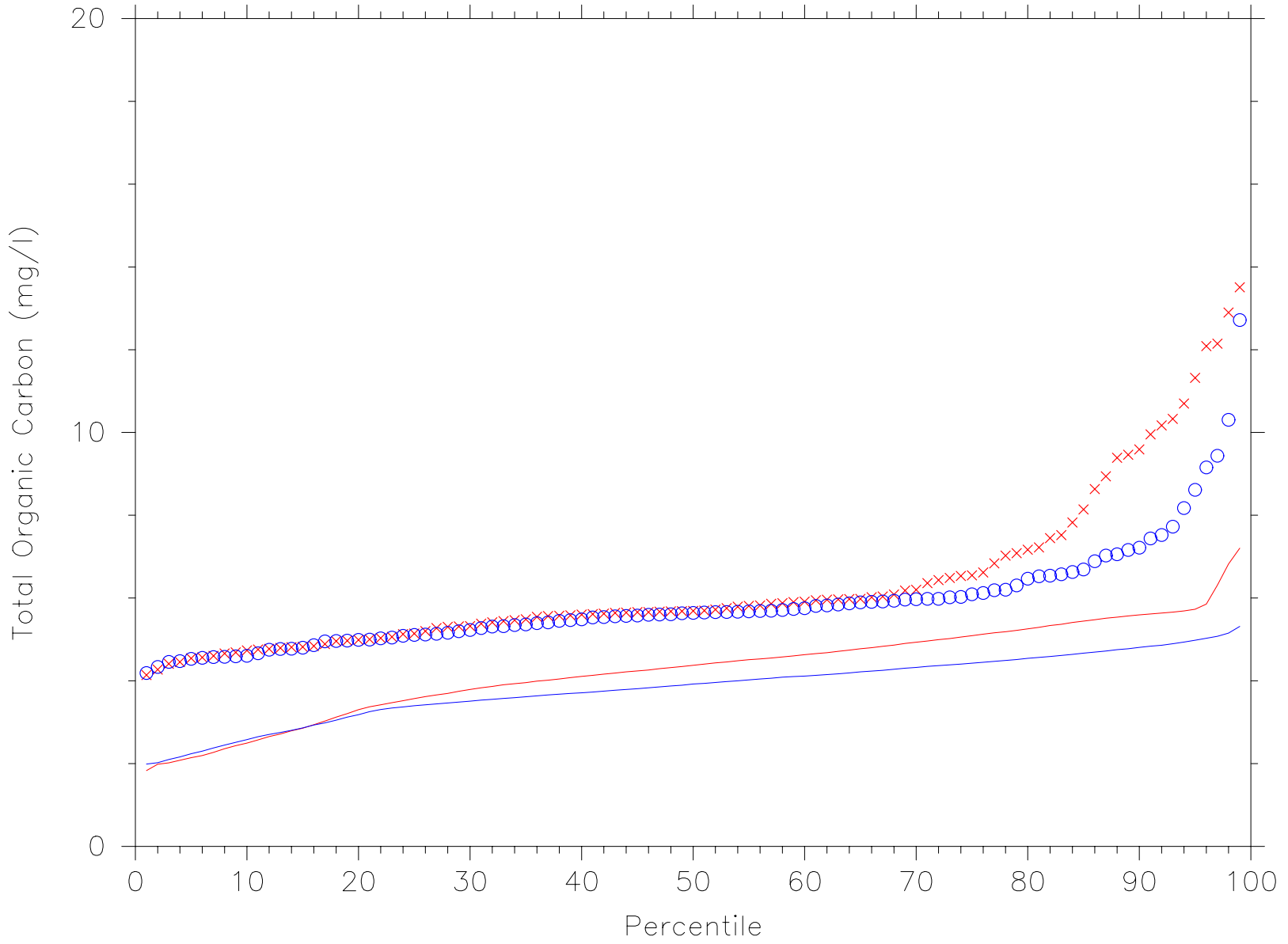
Salinity, Chester River



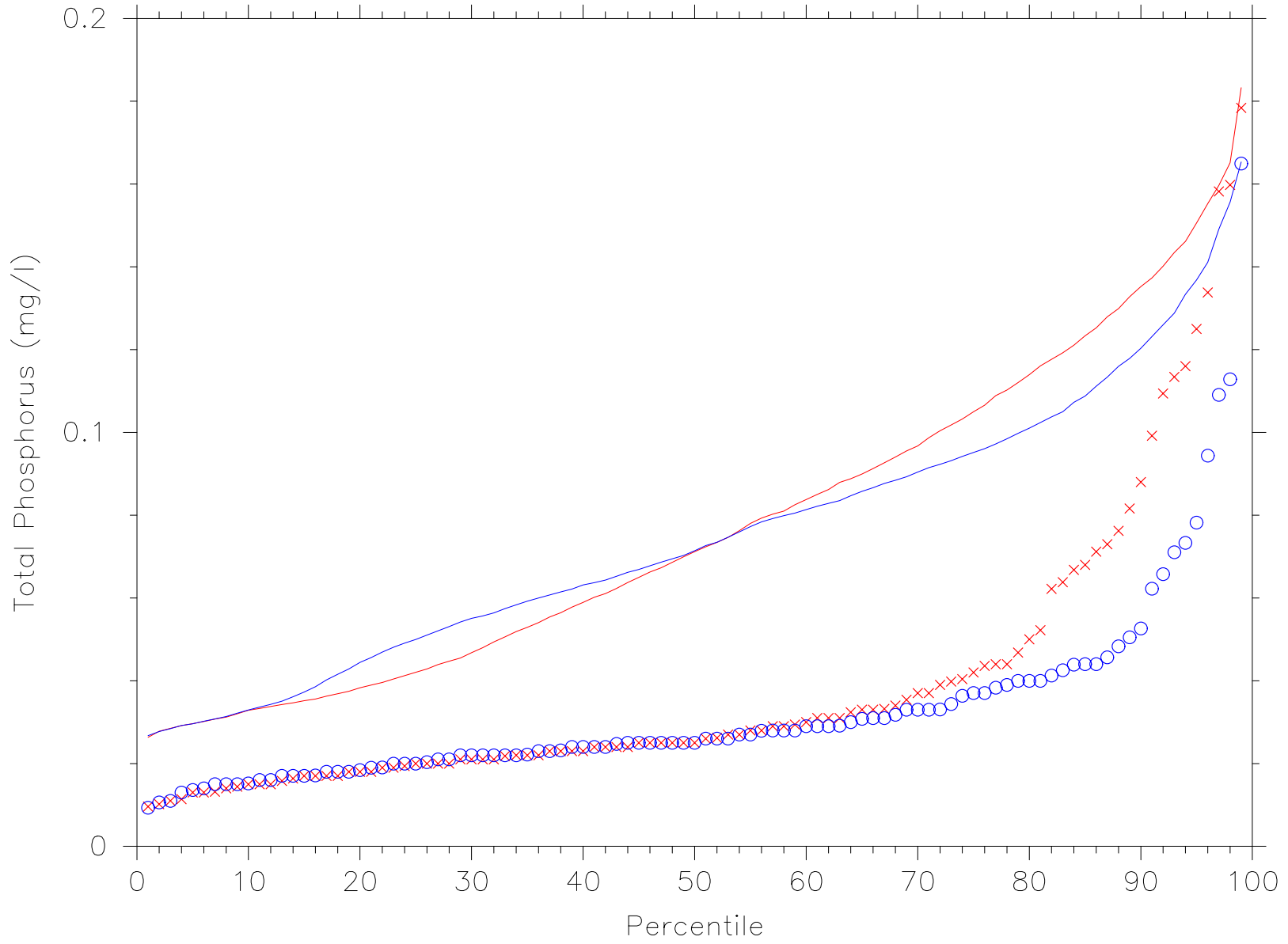
Total Nitrogen, Chester River



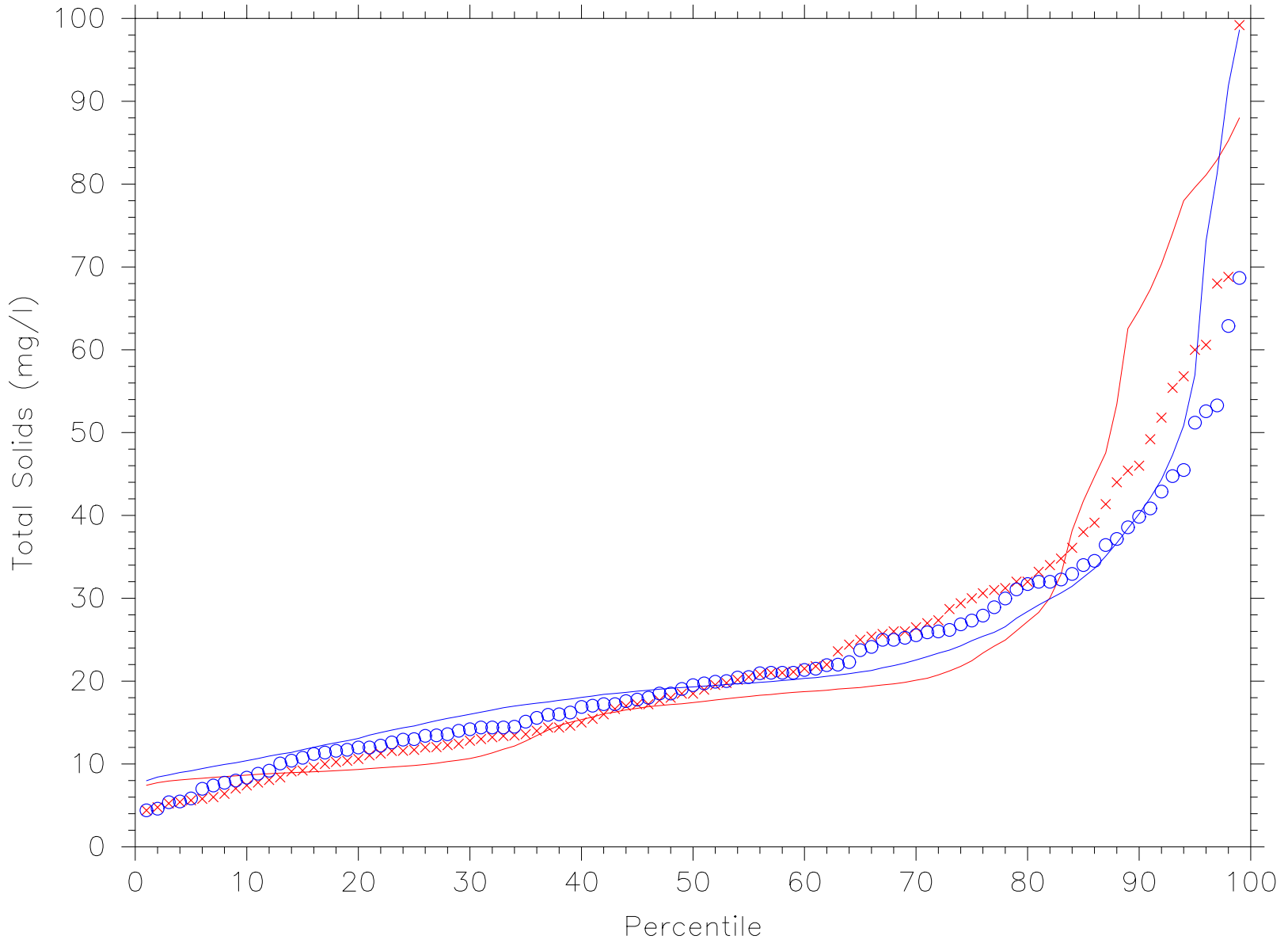
Total Organic Carbon, Chester River



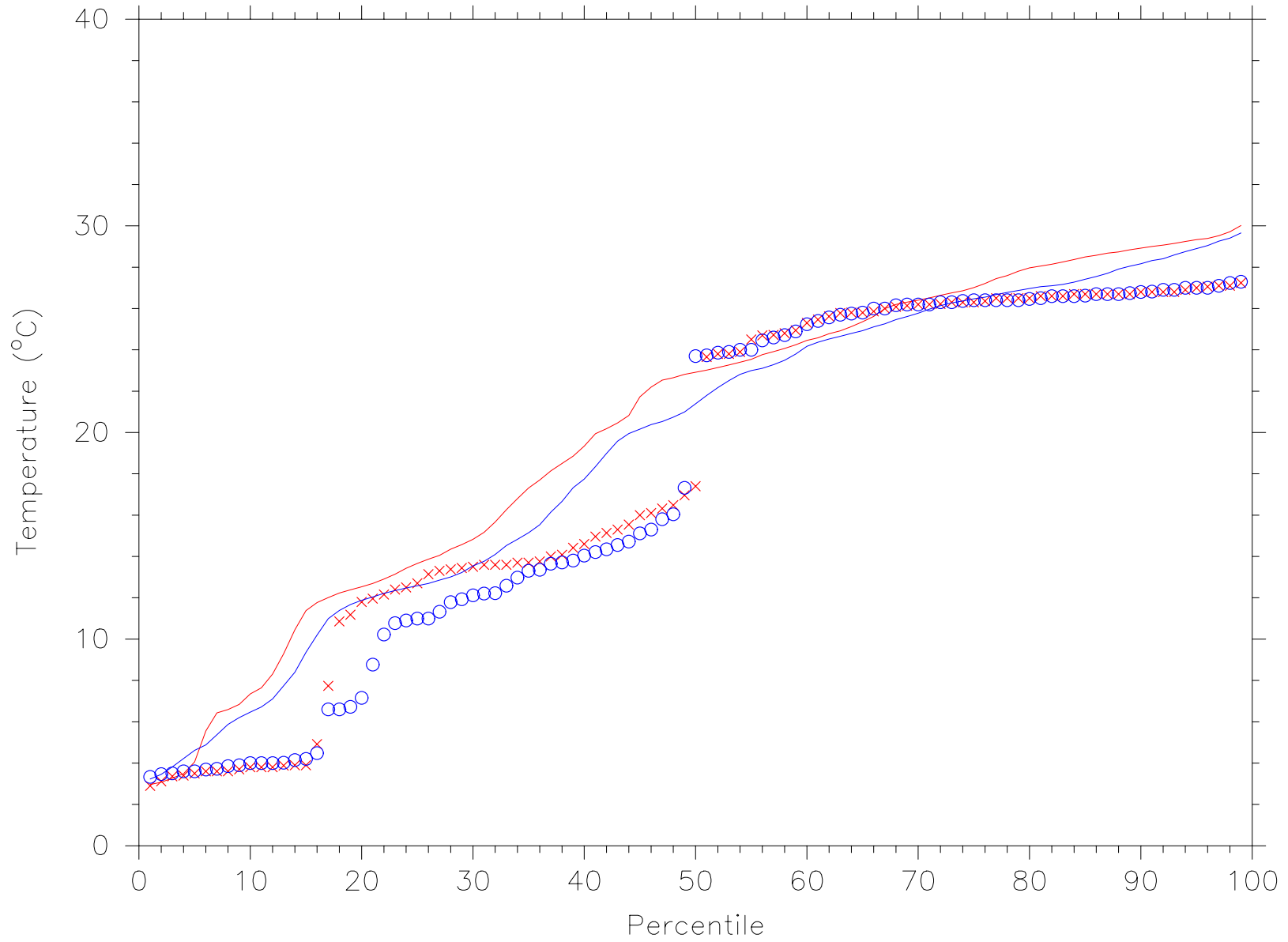
Total Phosphorus, Chester River



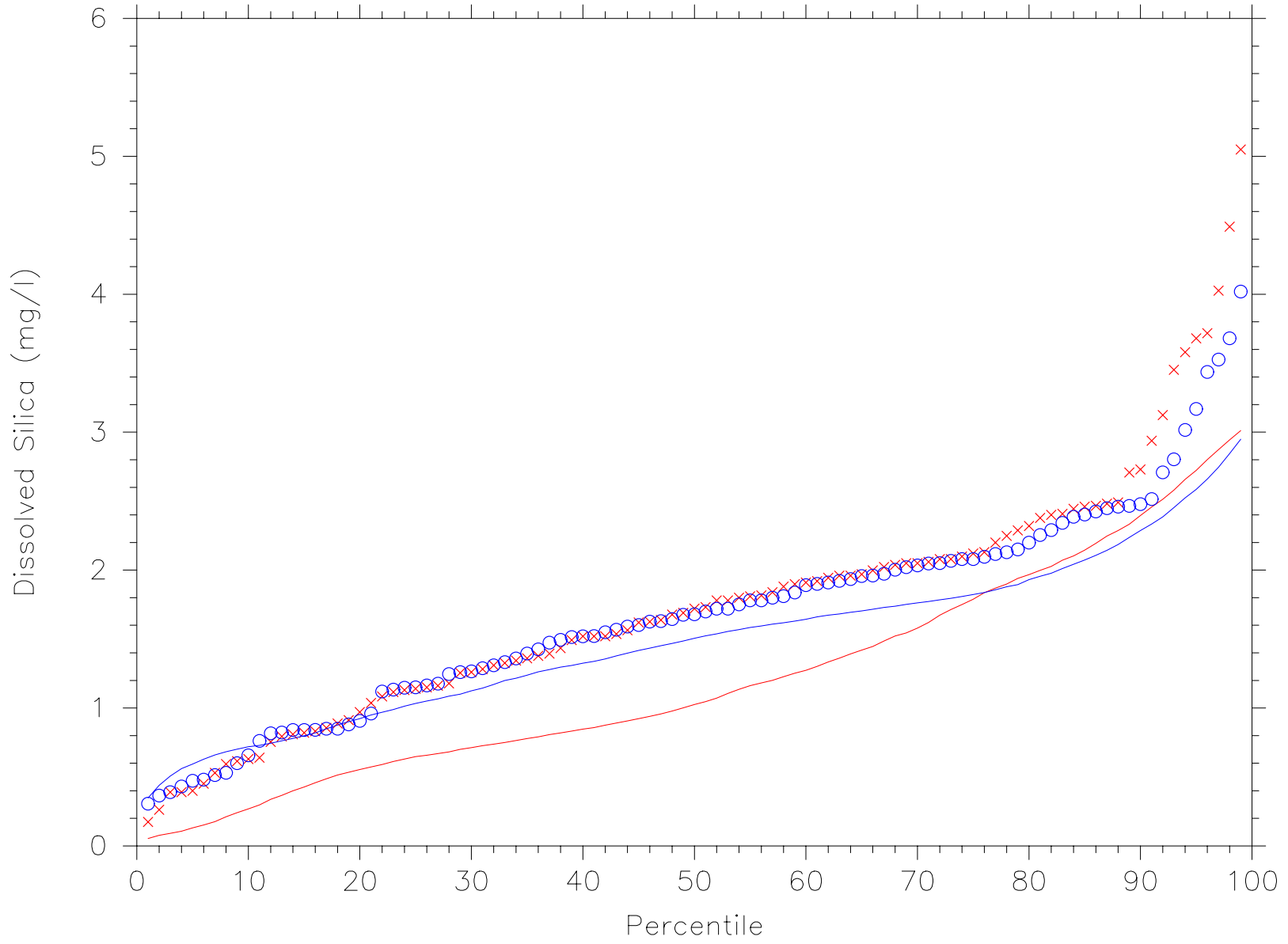
Total Solids, Chester River



Temperature, Chester River



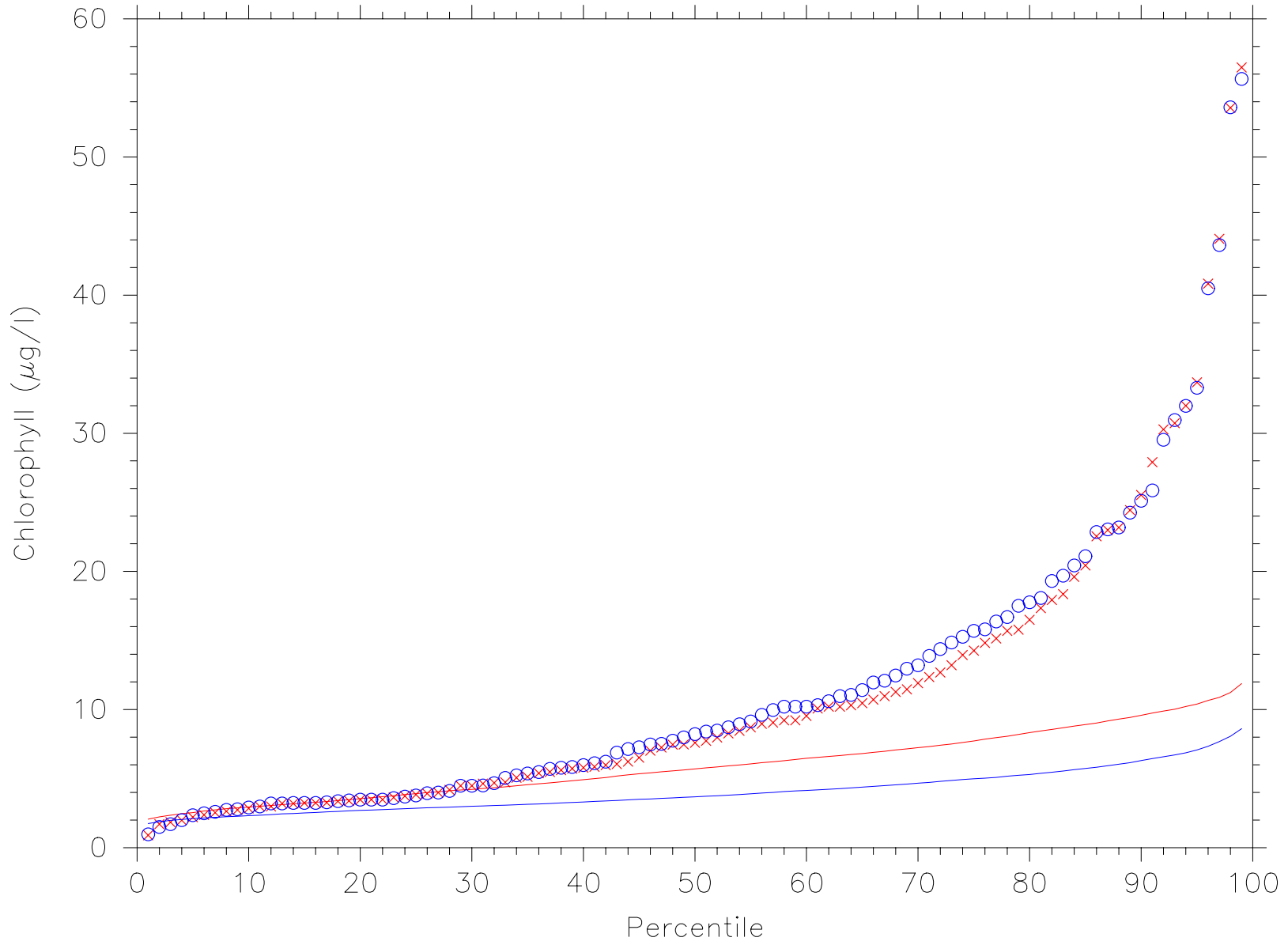
Dissolved Silica, Chester River



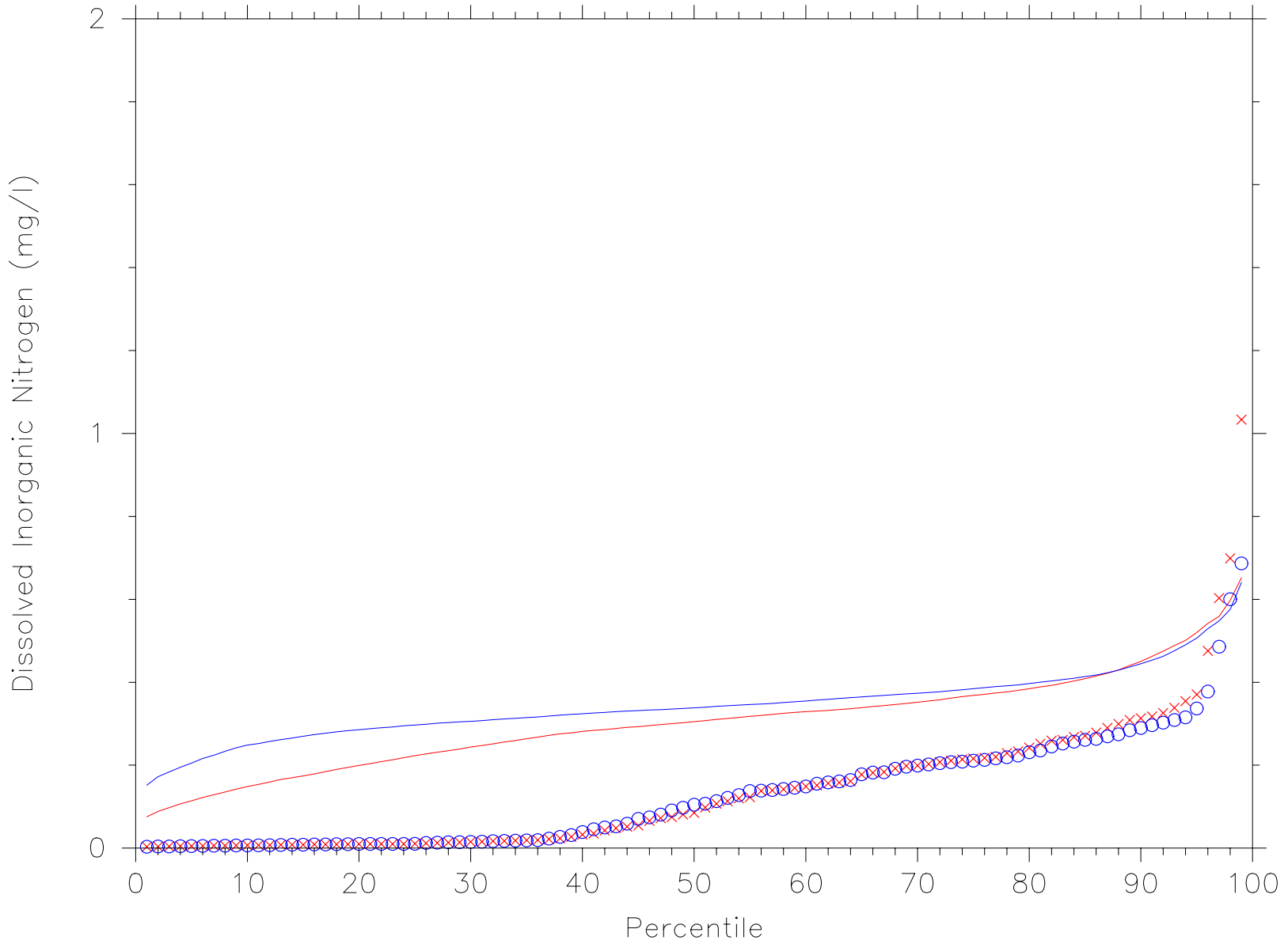
Appendix 5-D

This appendix contains cumulative distribution plots of observed and computed properties (surface and bottom) at 1999 MDE intensive survey stations in the Eastern Bay and its tributaries, including, Miles, Wye, and Wye East Rivers.

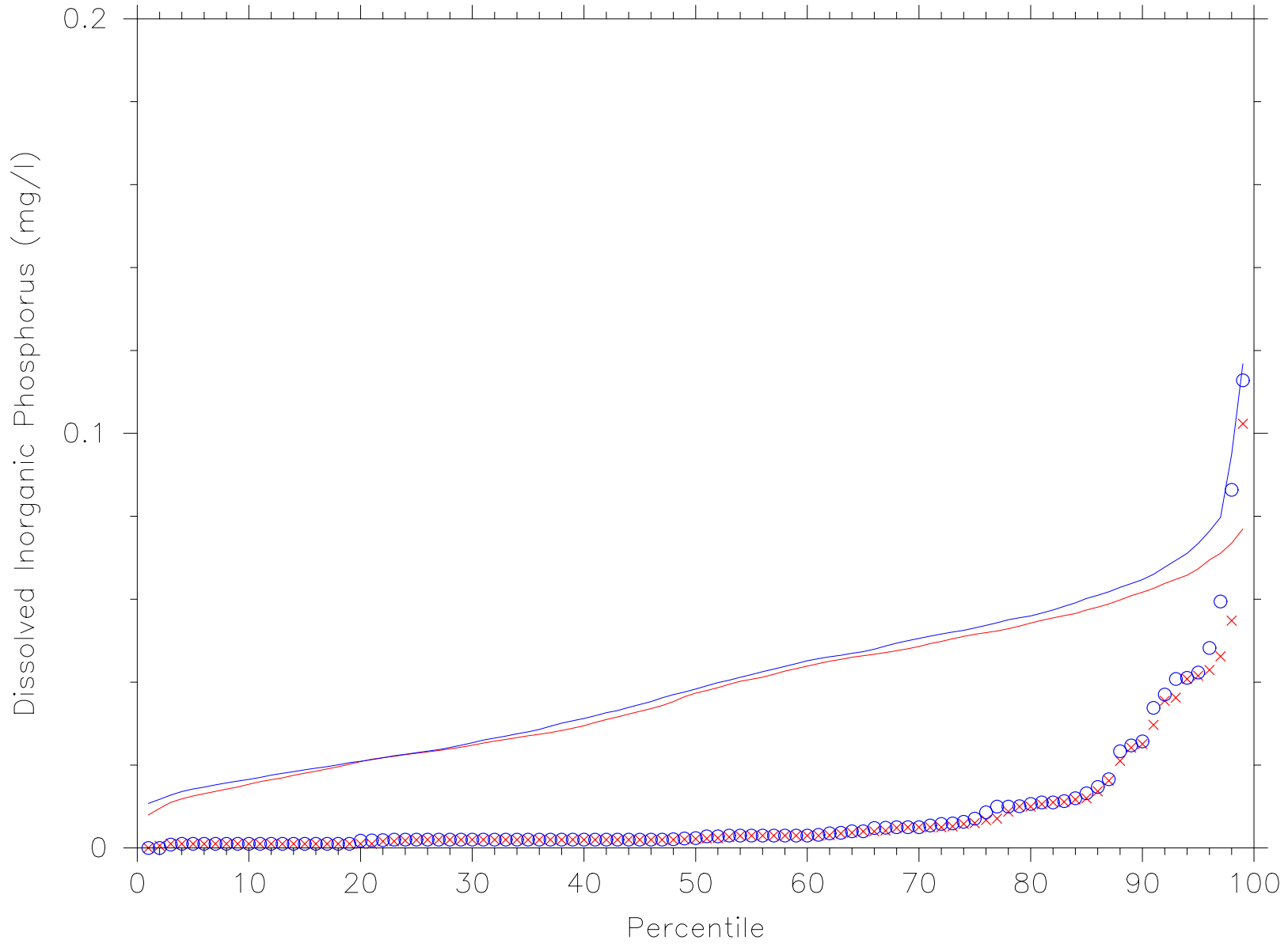
Chlorophyll, Miles, Wye, & Wye East Rivers



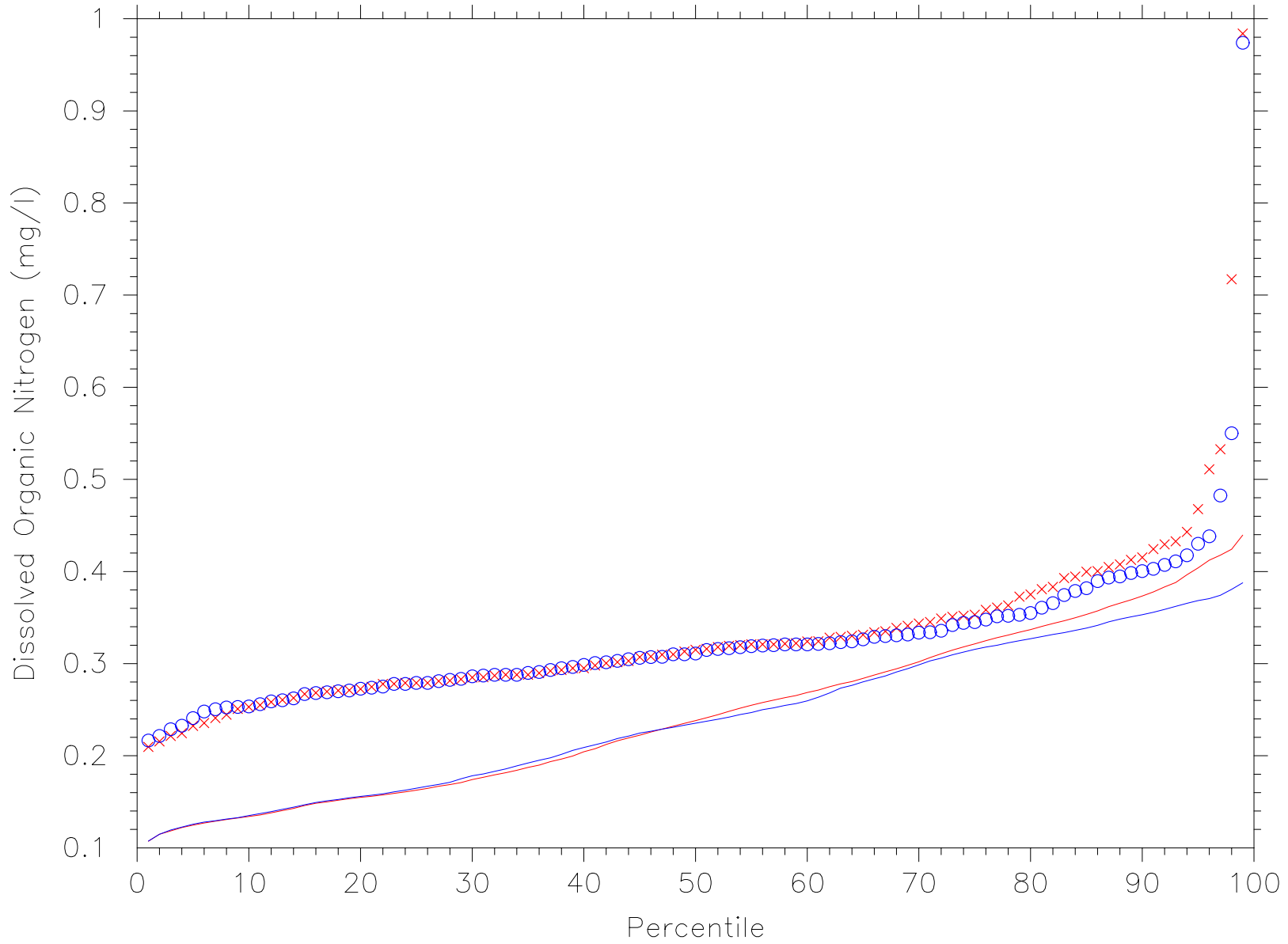
Dissolved Inorganic Nitrogen, Miles, Wye, & Wye East Rivers



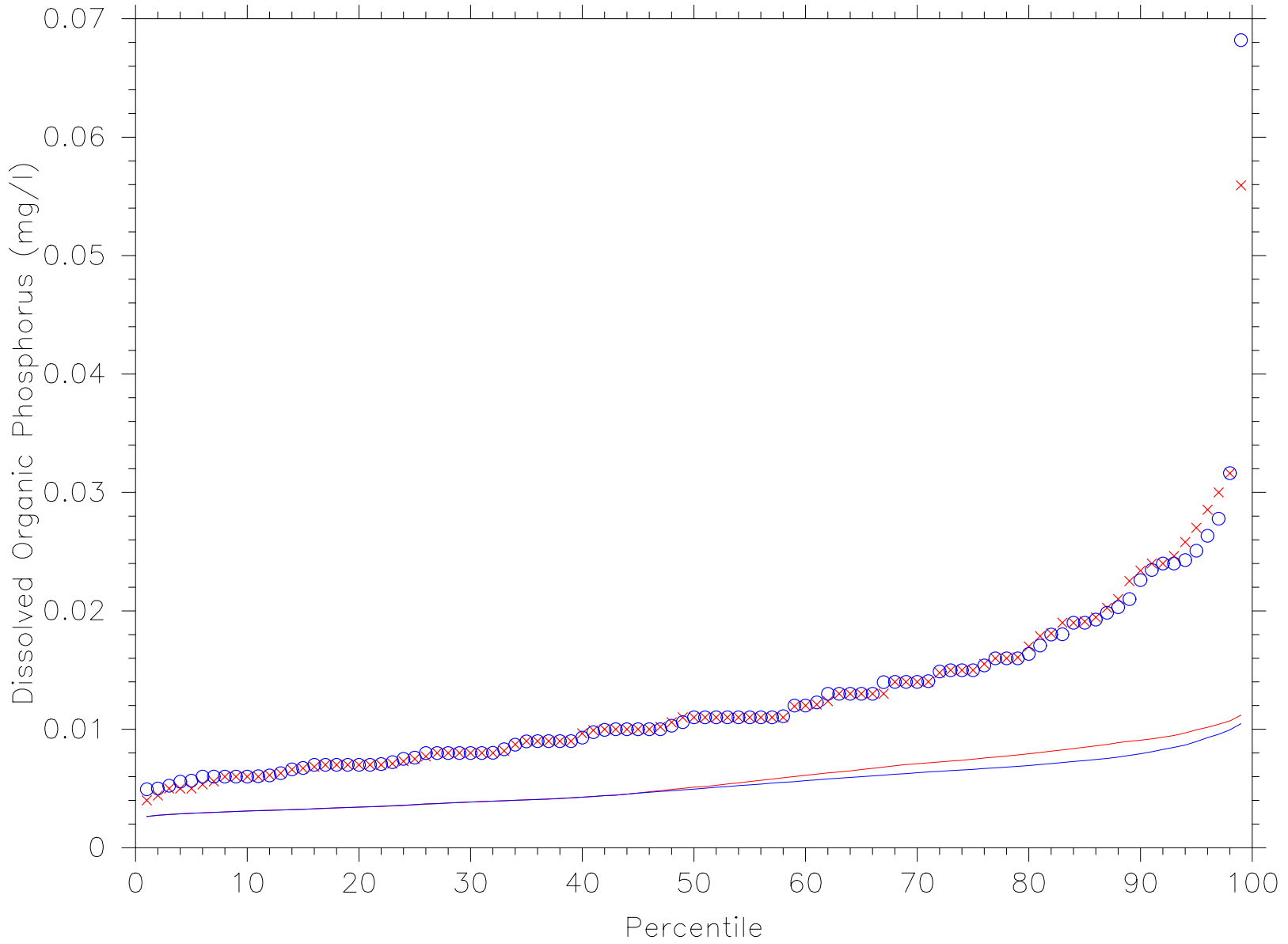
Dissolved Inorganic Phosphorus, Miles, Wye, & Wye East Rivers



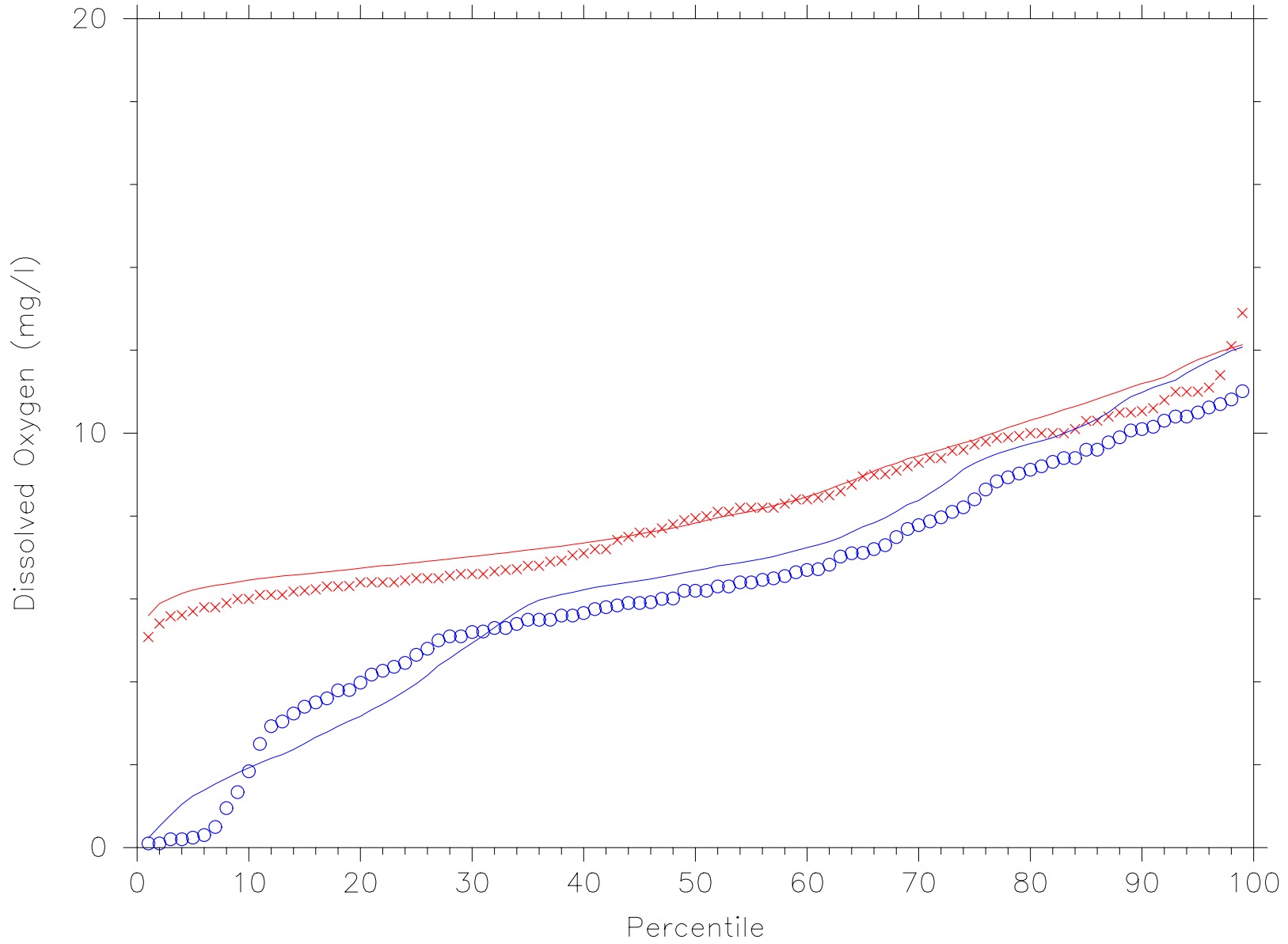
Dissolved Organic Nitrogen, Miles, Wye, & Wye East Rivers



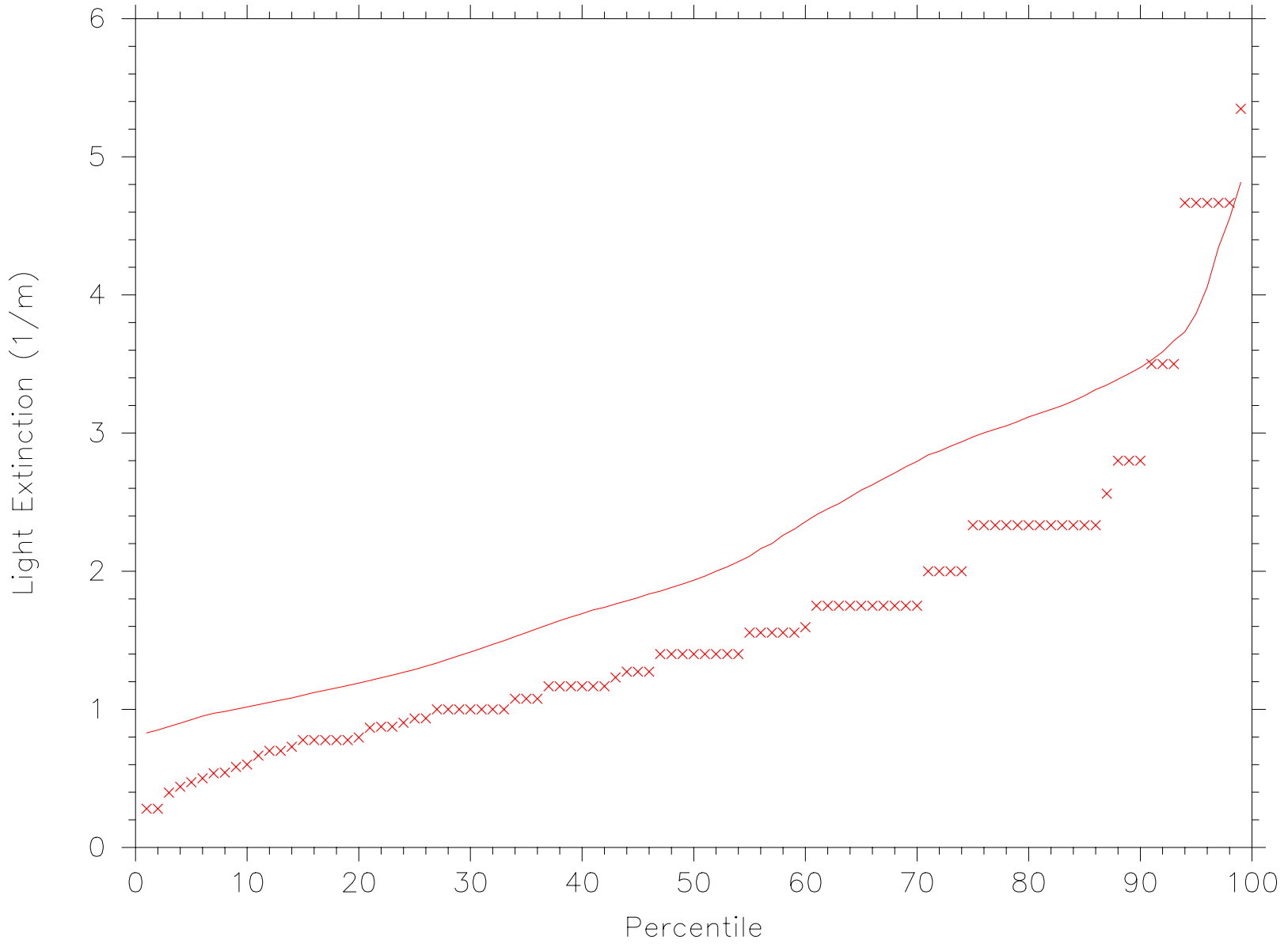
Dissolved Organic Phosphorus, Miles, Wye, & Wye East Rivers



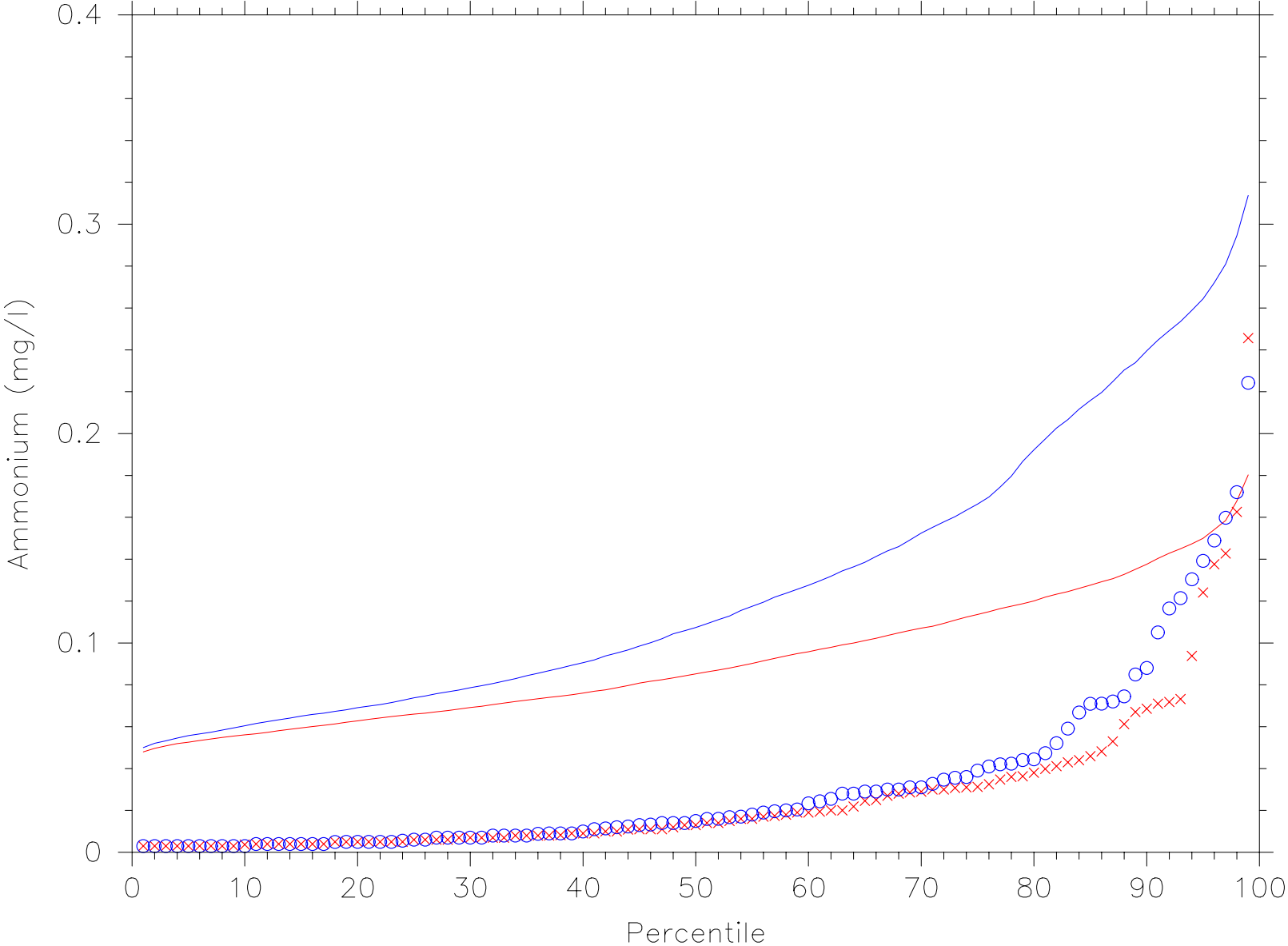
Dissolved Oxygen, Miles, Wye, & Wye East Rivers



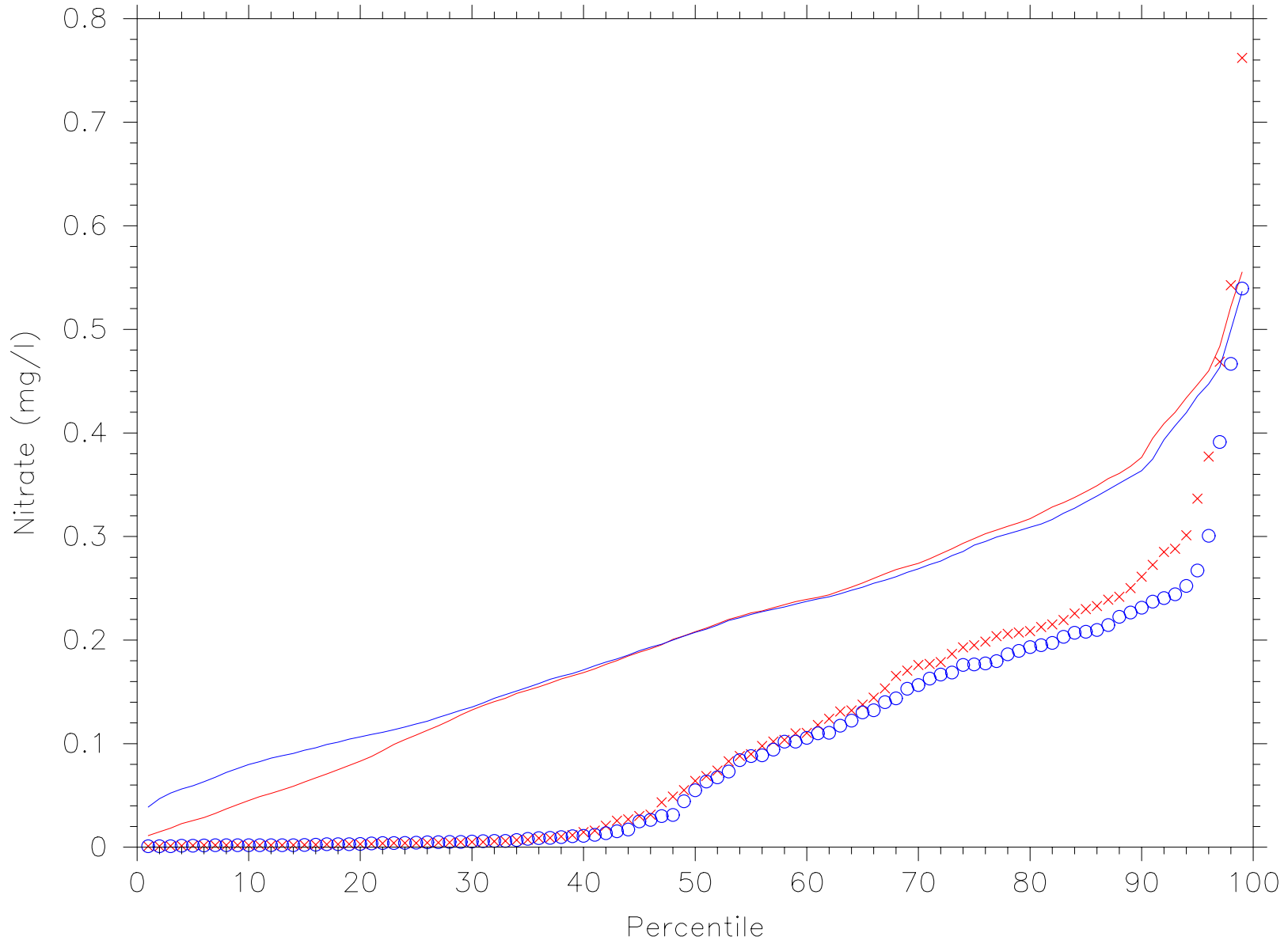
Light Extinction, Miles, Wye, & Wye East Rivers



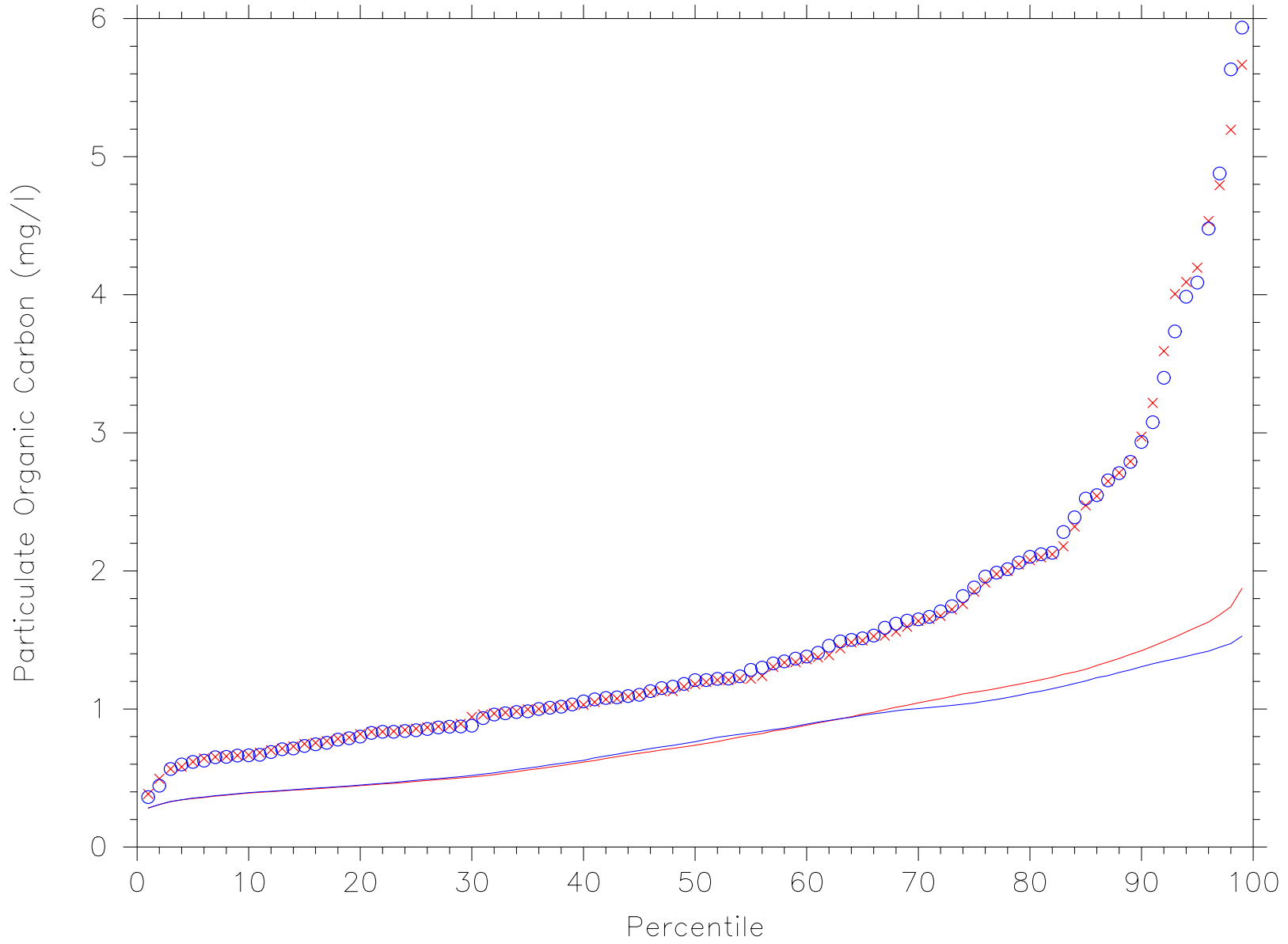
Ammonium, Miles, Wye, & Wye East Rivers



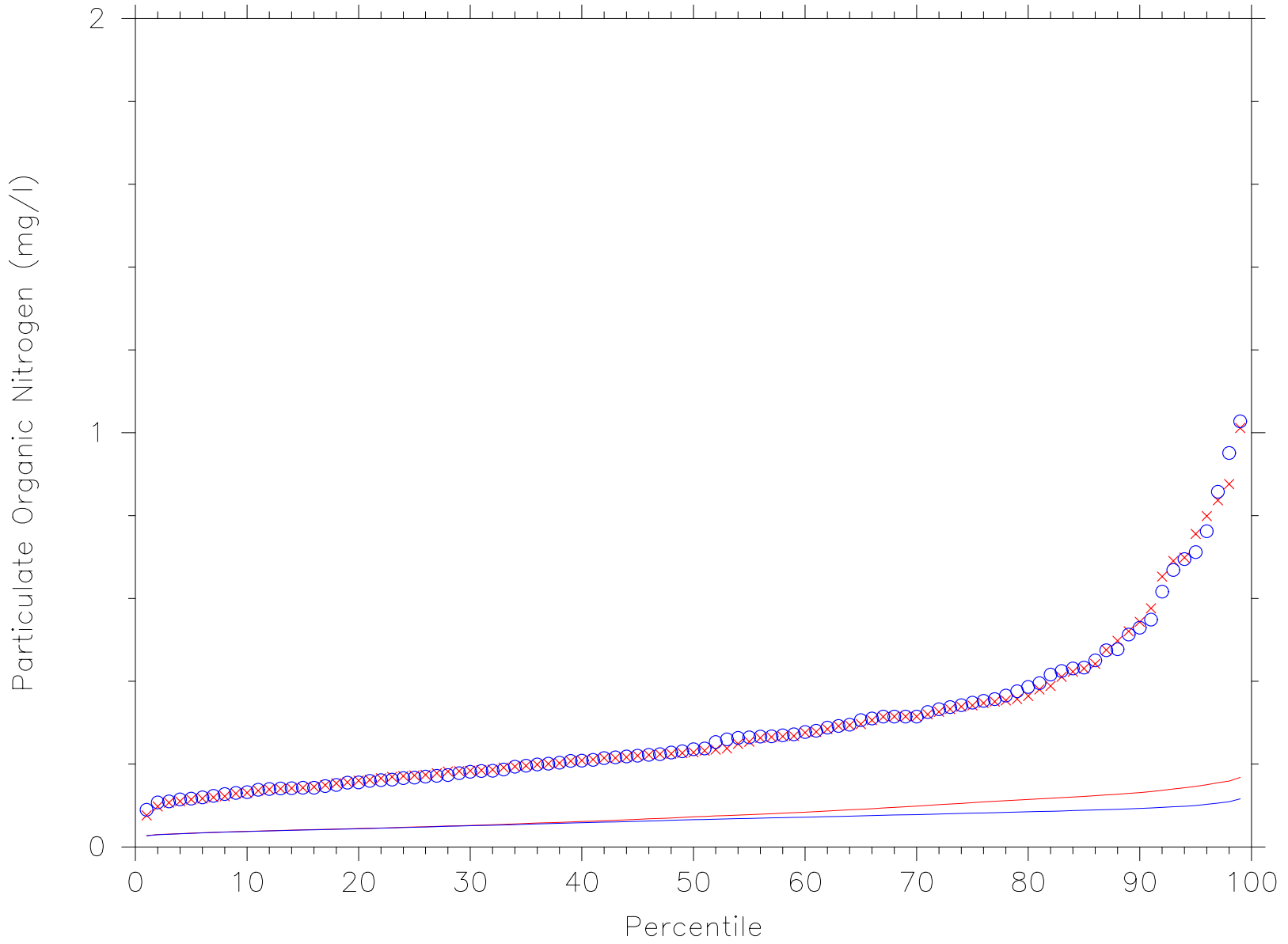
Nitrate, Miles, Wye, & Wye East Rivers



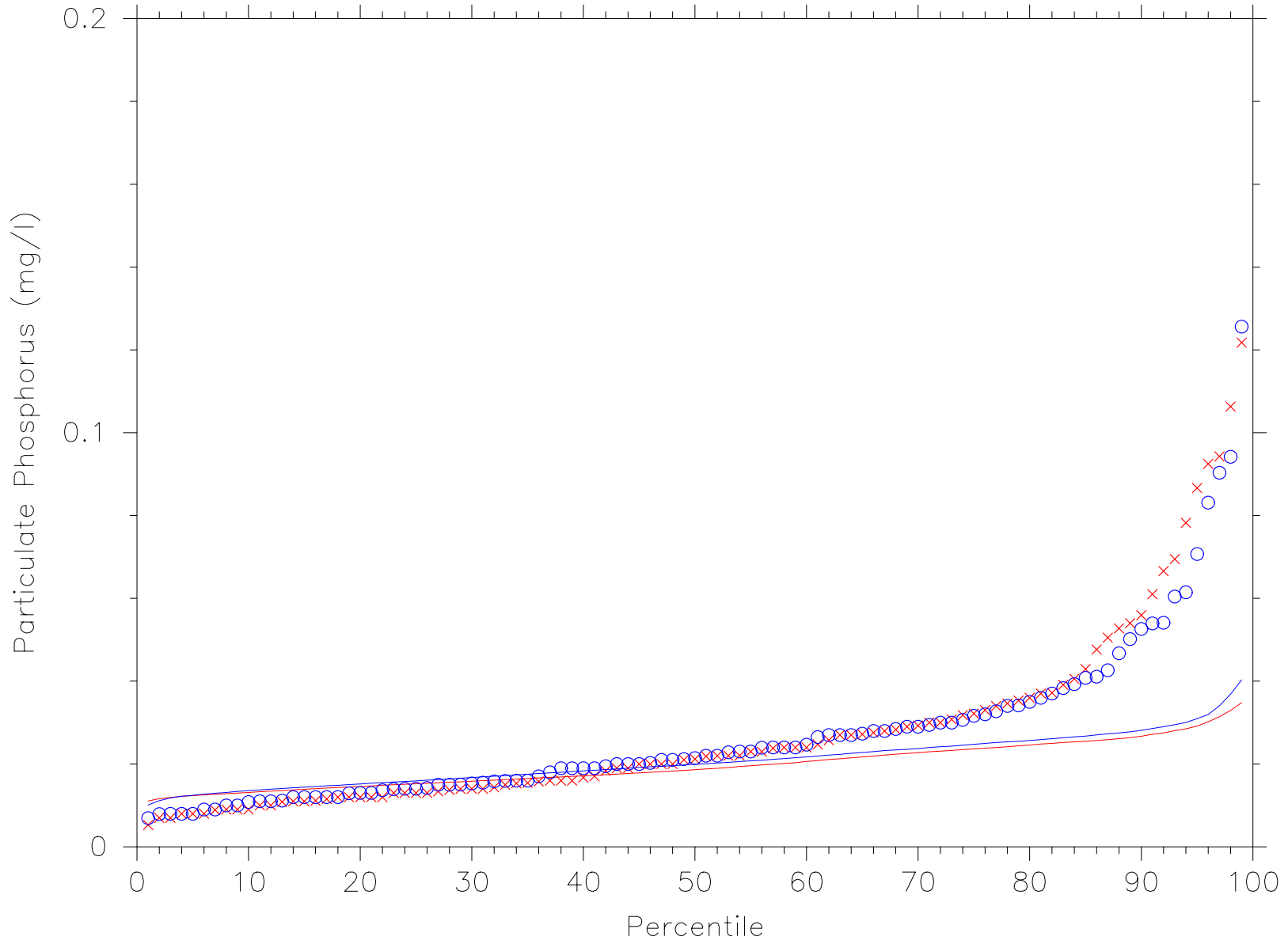
Particulate Organic Carbon, Miles, Wye, & Wye East Rivers



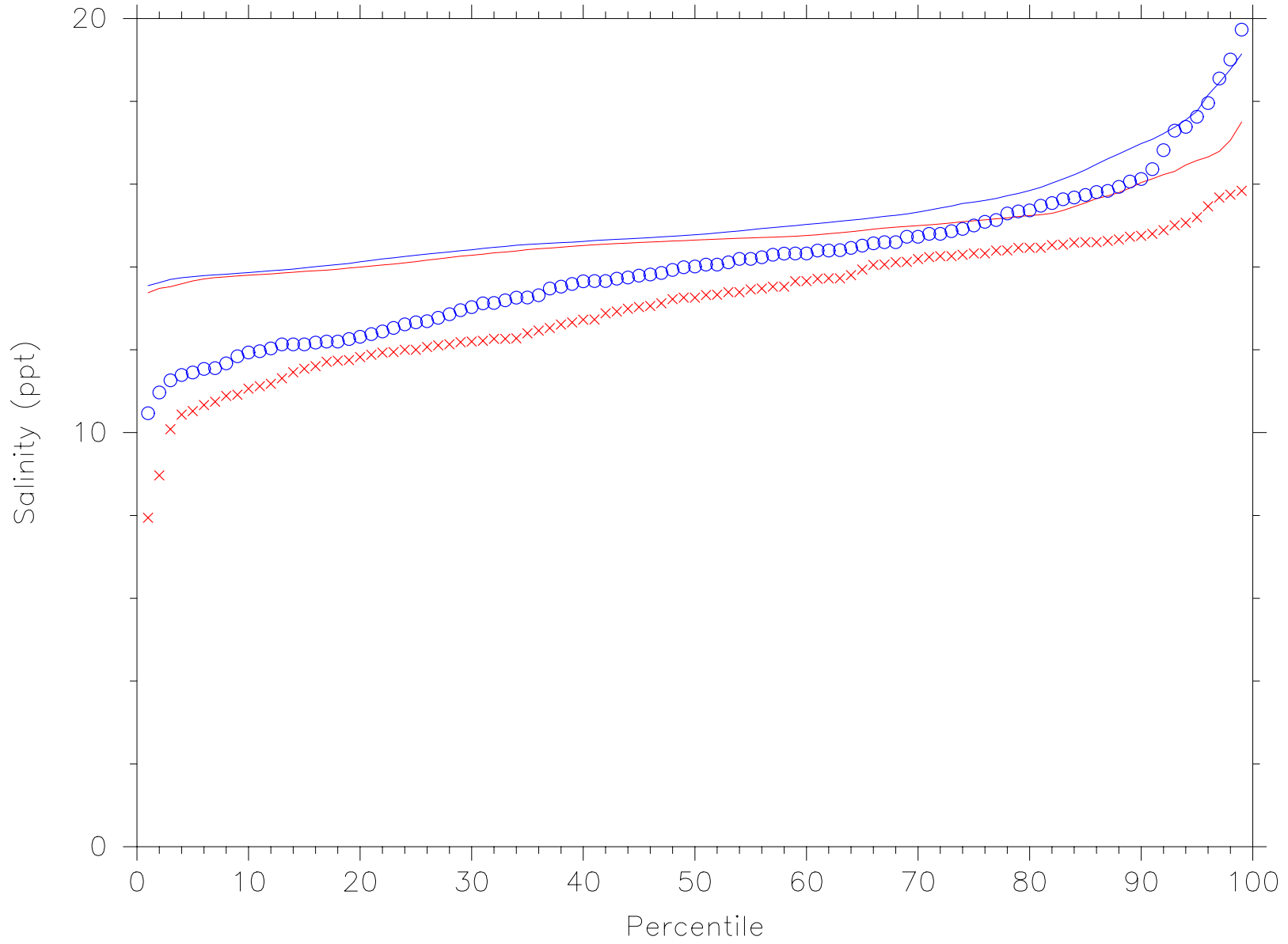
Particulate Organic Nitrogen, Miles, Wye, & Wye East Rivers



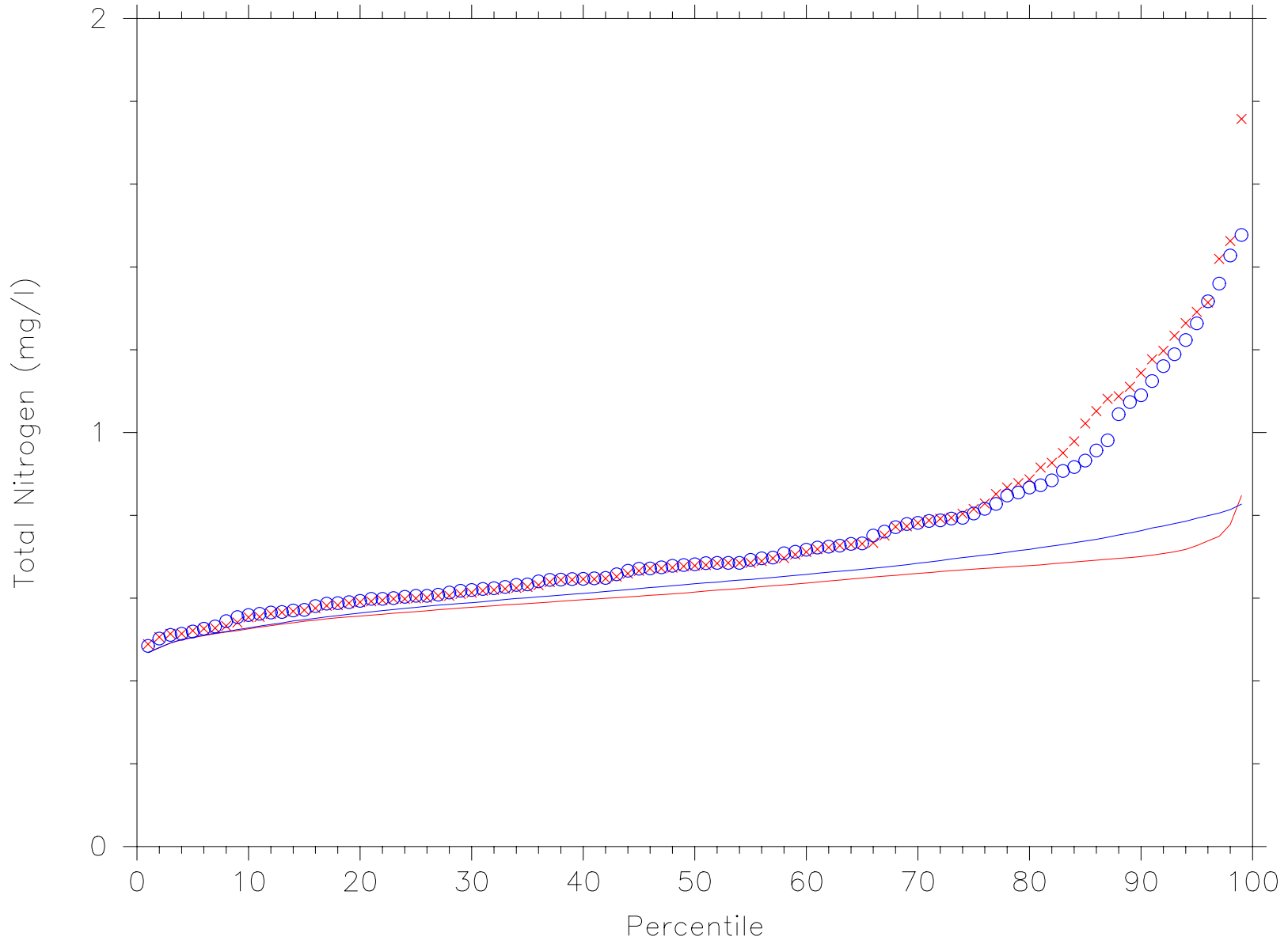
Particulate Phosphorus, Miles, Wye, & Wye East Rivers



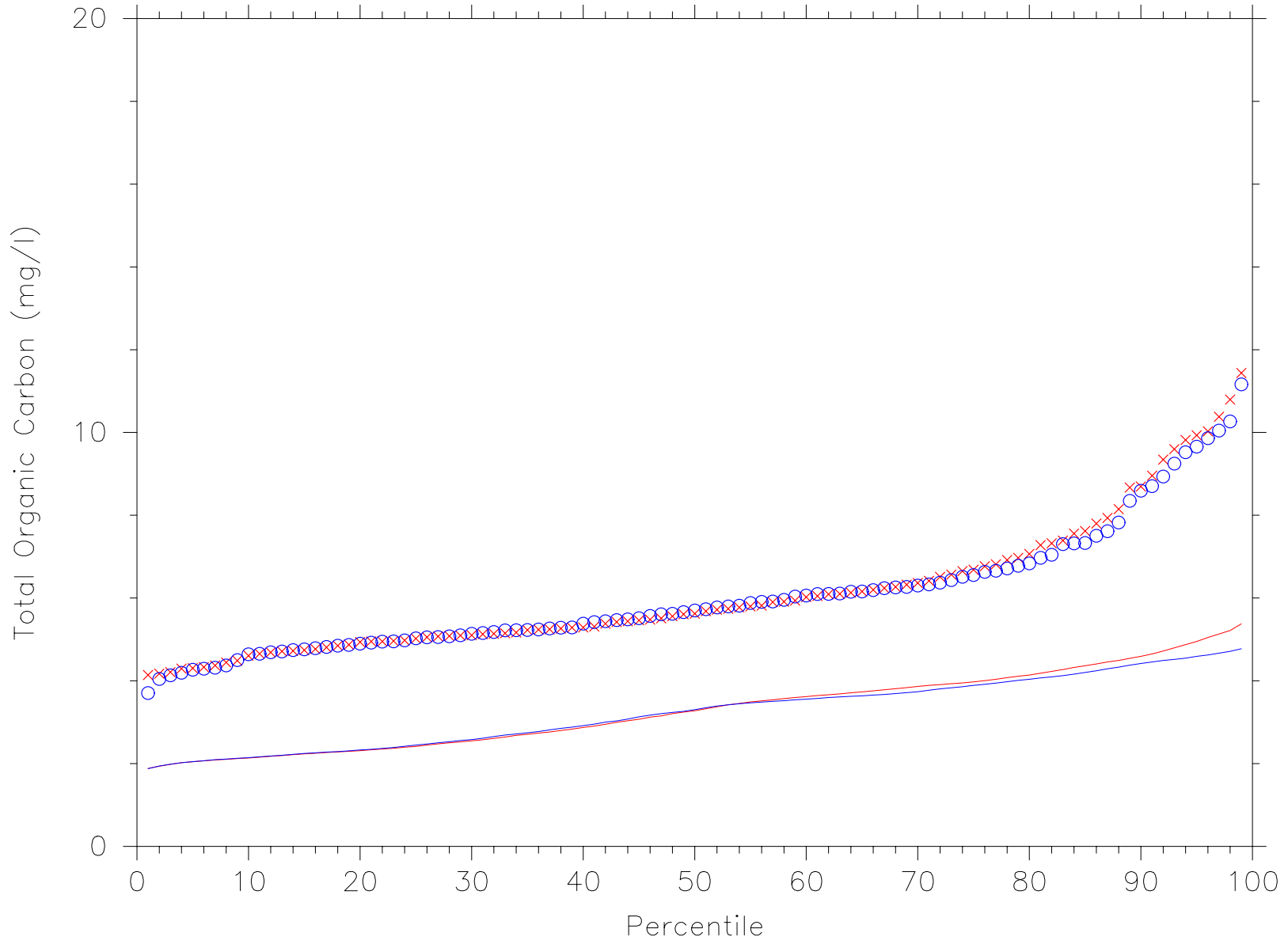
Salinity, Miles, Wye, & Wye East Rivers



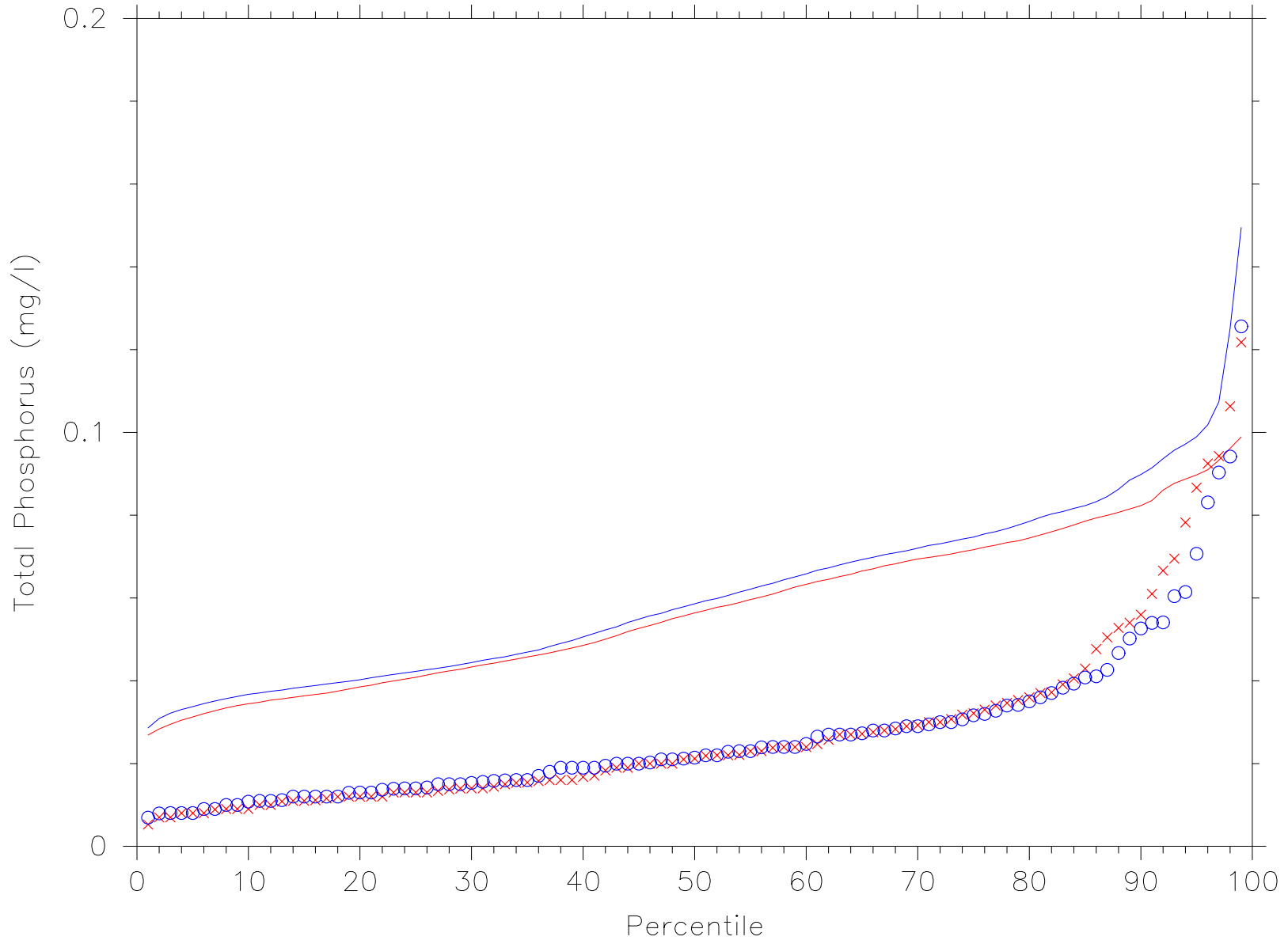
Total Nitrogen, Miles, Wye, & Wye East Rivers



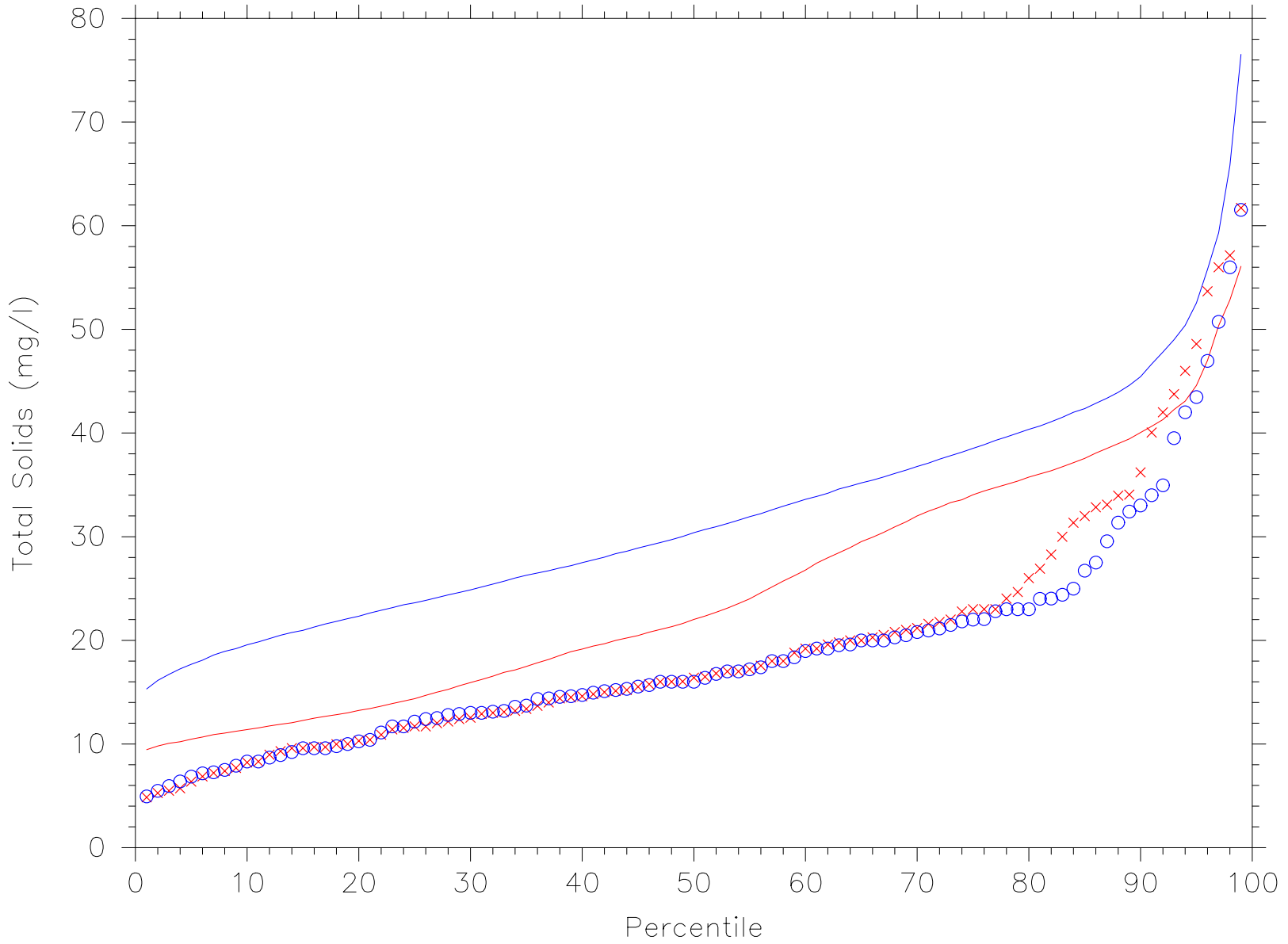
Total Organic Carbon, Miles, Wye, & Wye East Rivers



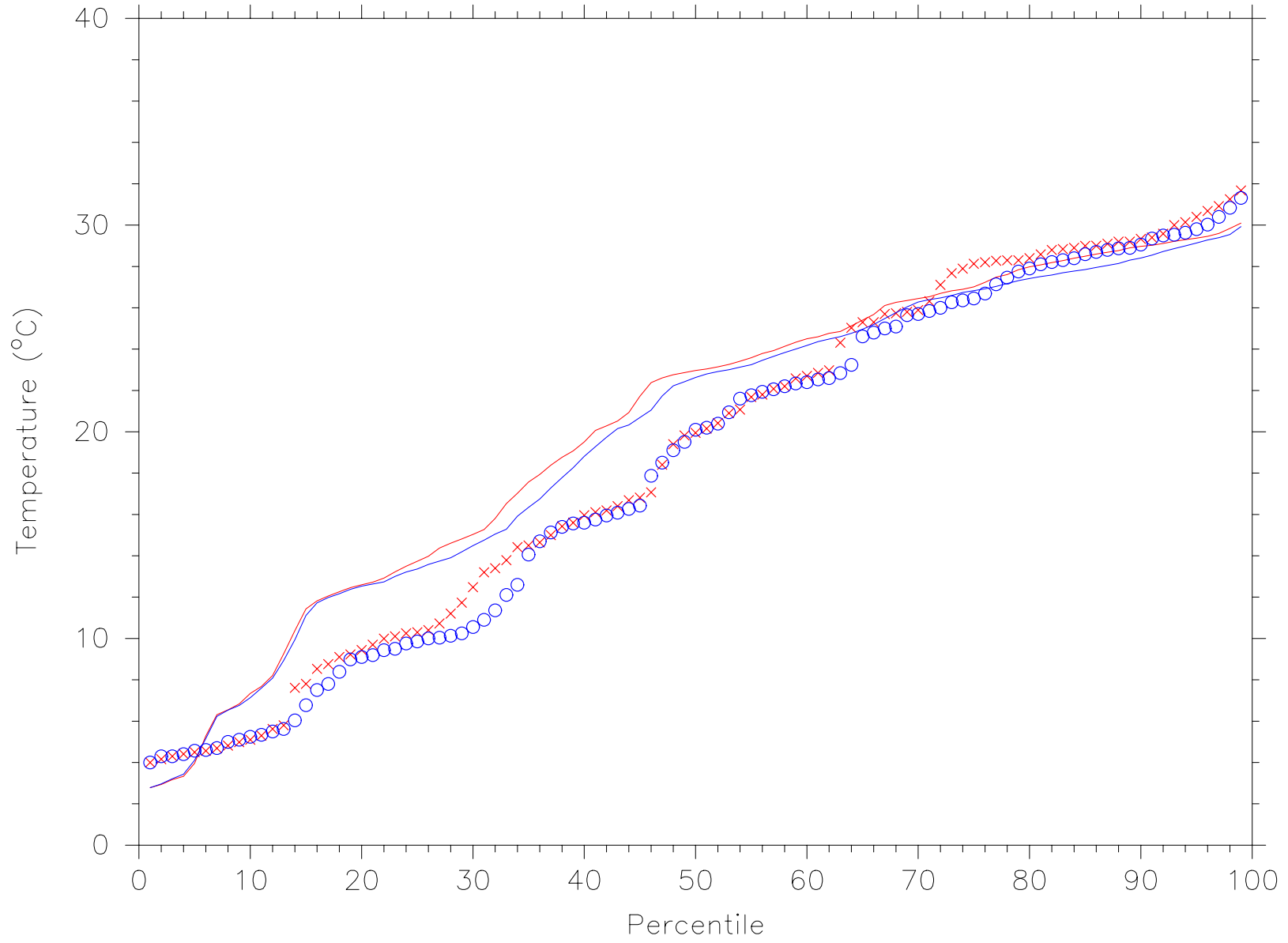
Total Phosphorus, Miles, Wye, & Wye East Rivers



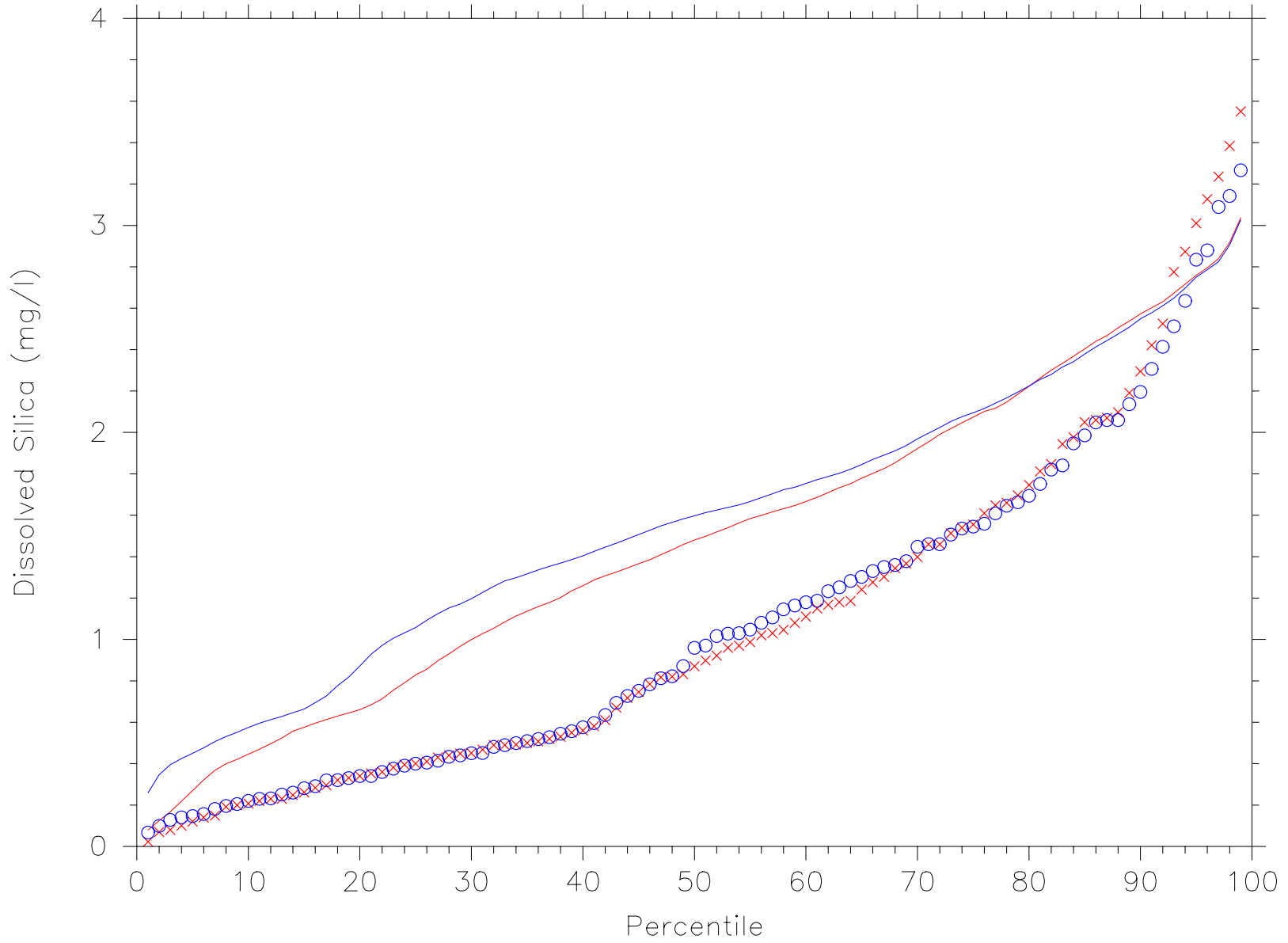
Total Solids, Miles, Wye, & Wye East Rivers



Temperature, Miles, Wye, & Wye East Rivers



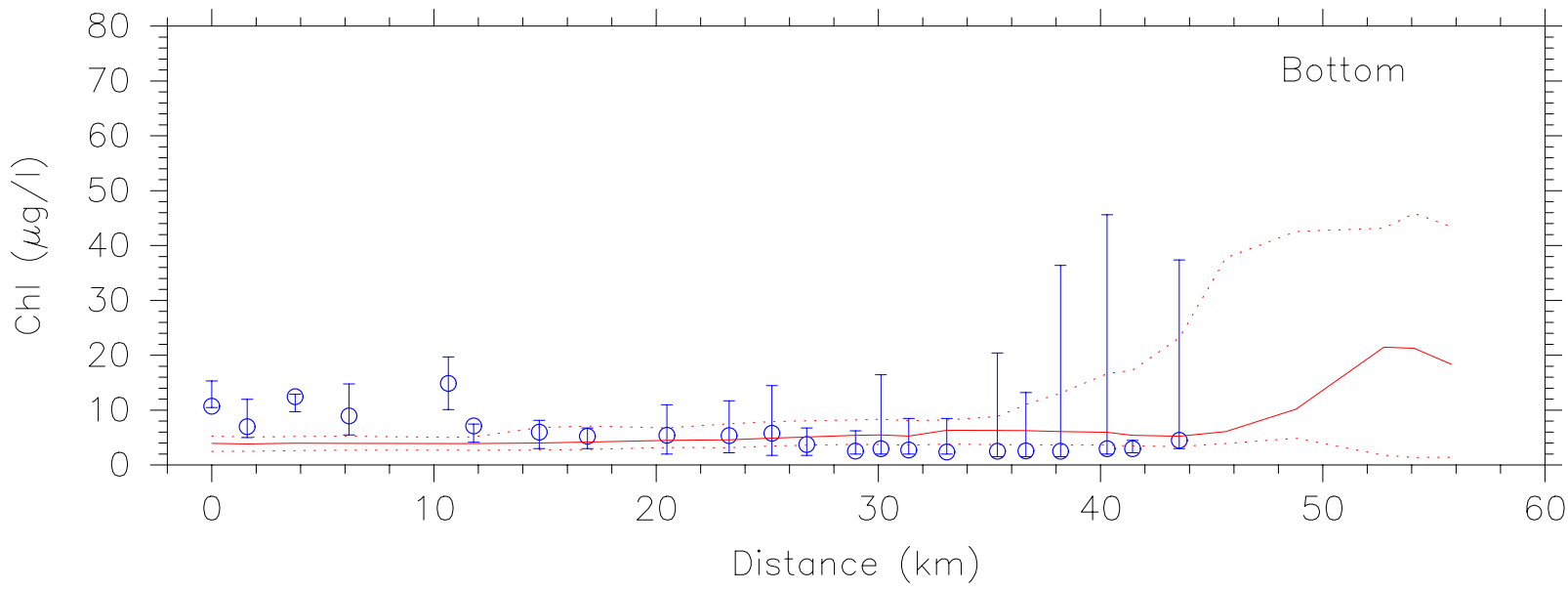
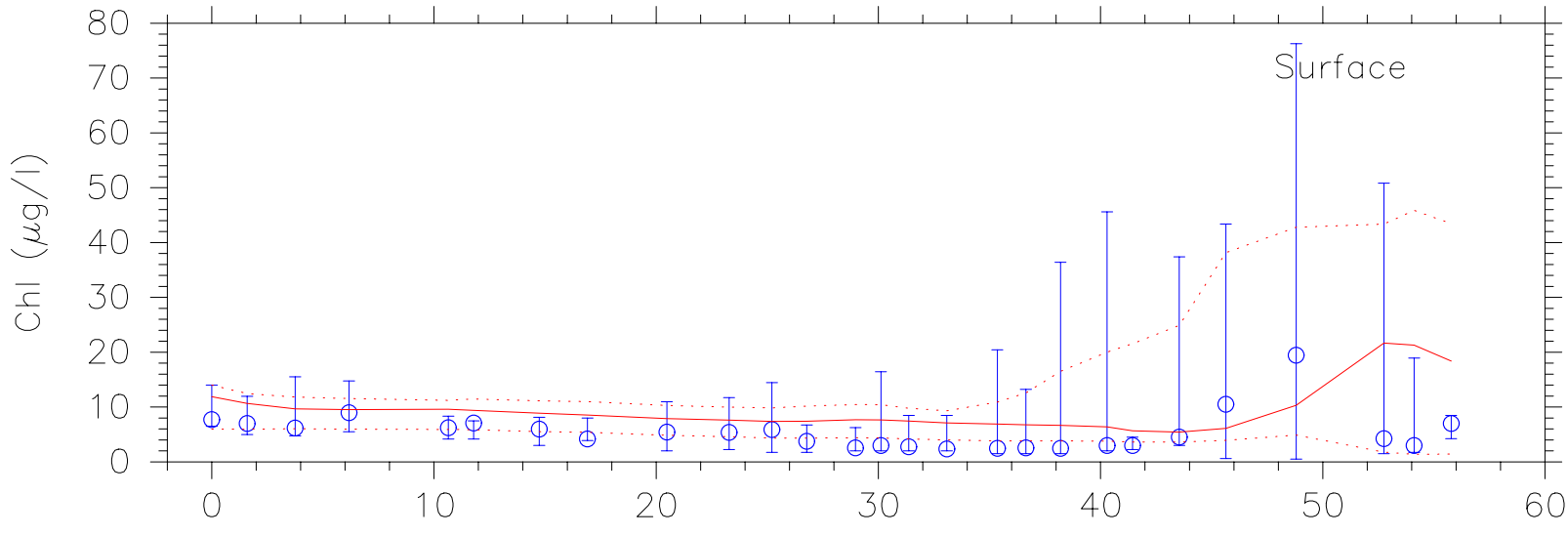
Dissolved Silica, Miles, Wye, & Wye East Rivers



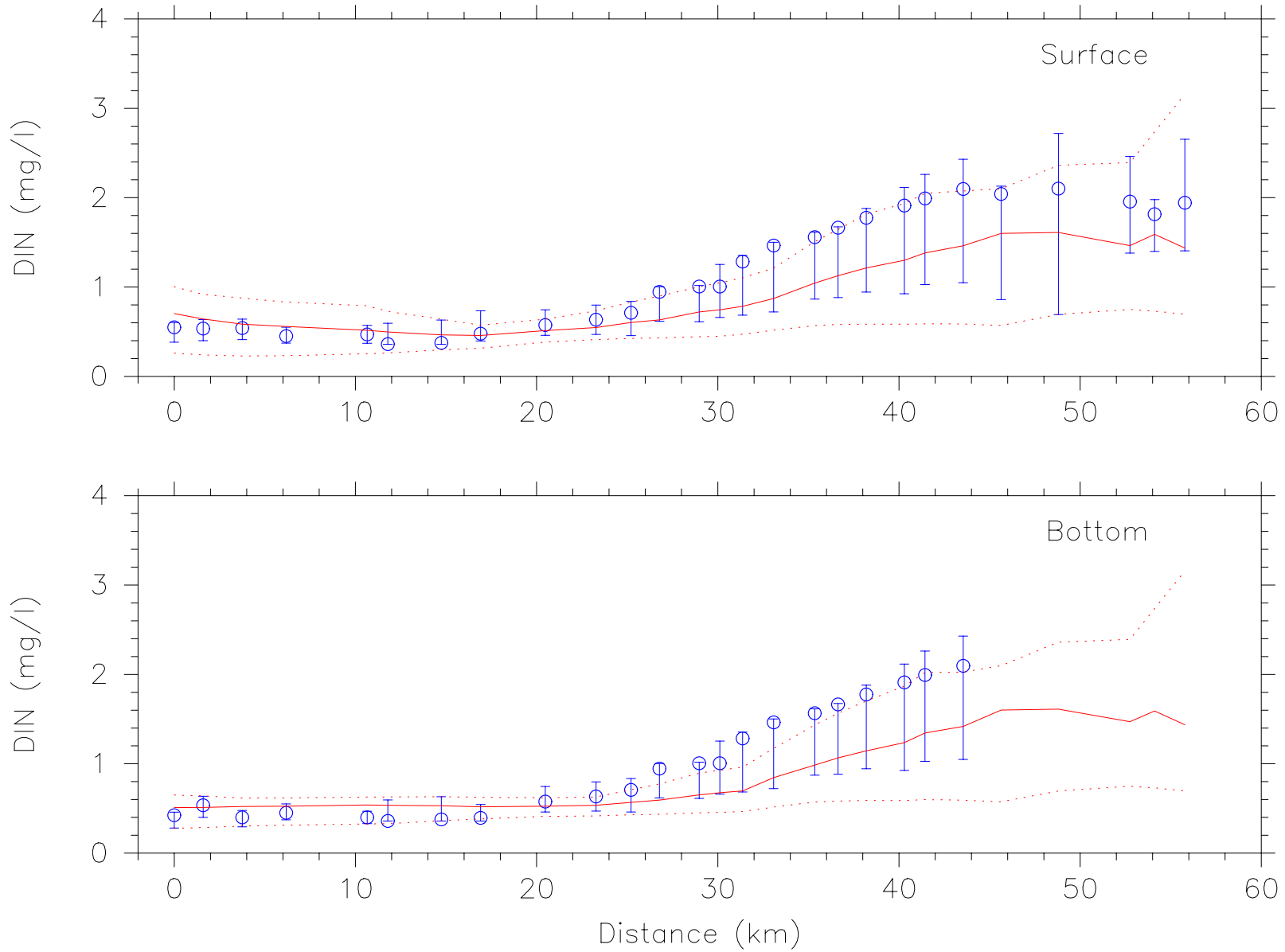
Appendix 5-E

This appendix contains longitudinal plots of computed and observed properties at 1999 MDE intensive survey stations in the Chester River during wet season (March – May).

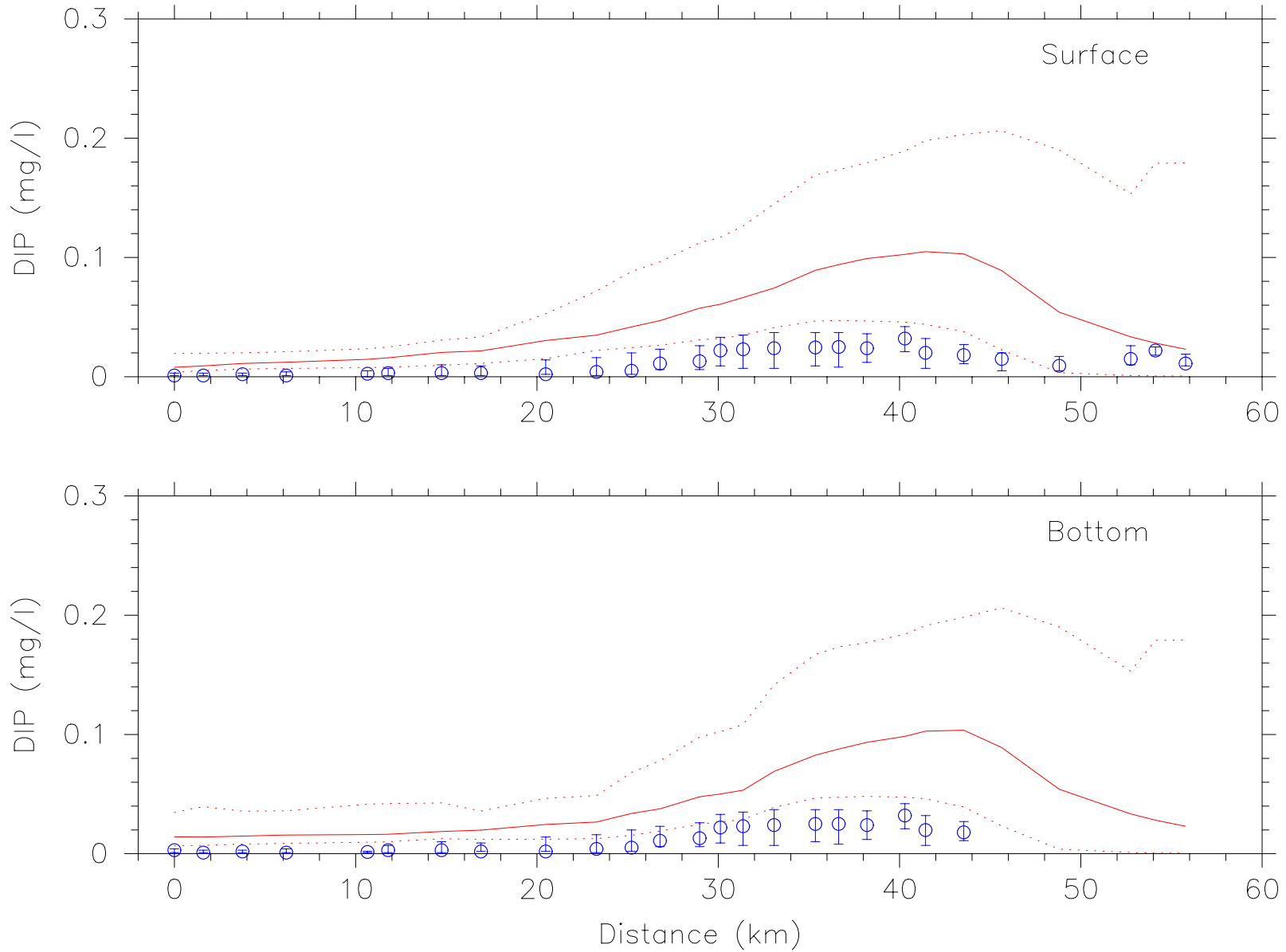
Chlorophyll, Chester River, Mar – May, 1999



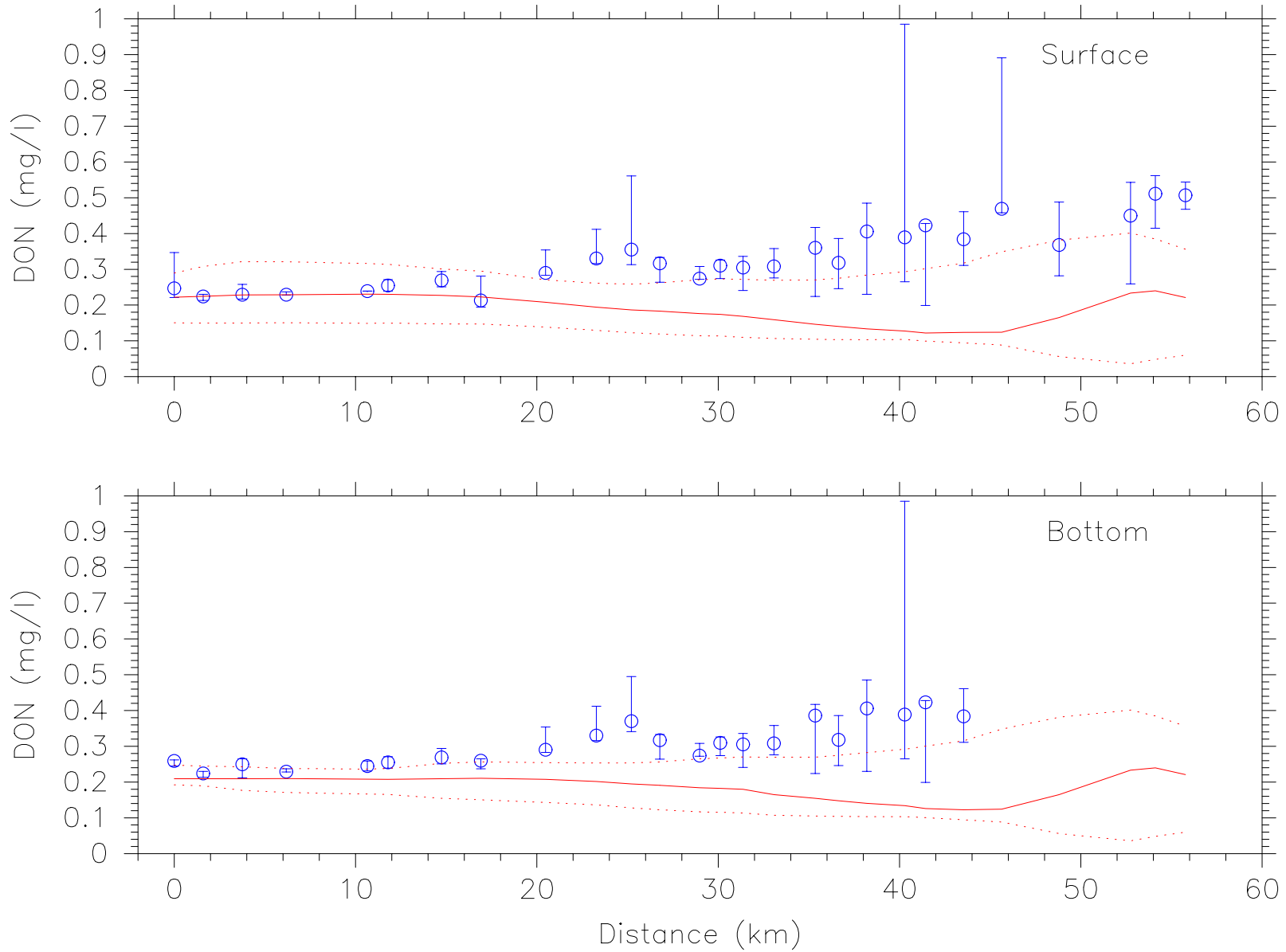
Dissolved Inorganic Nitrogen, Chester River, Mar – May, 1999



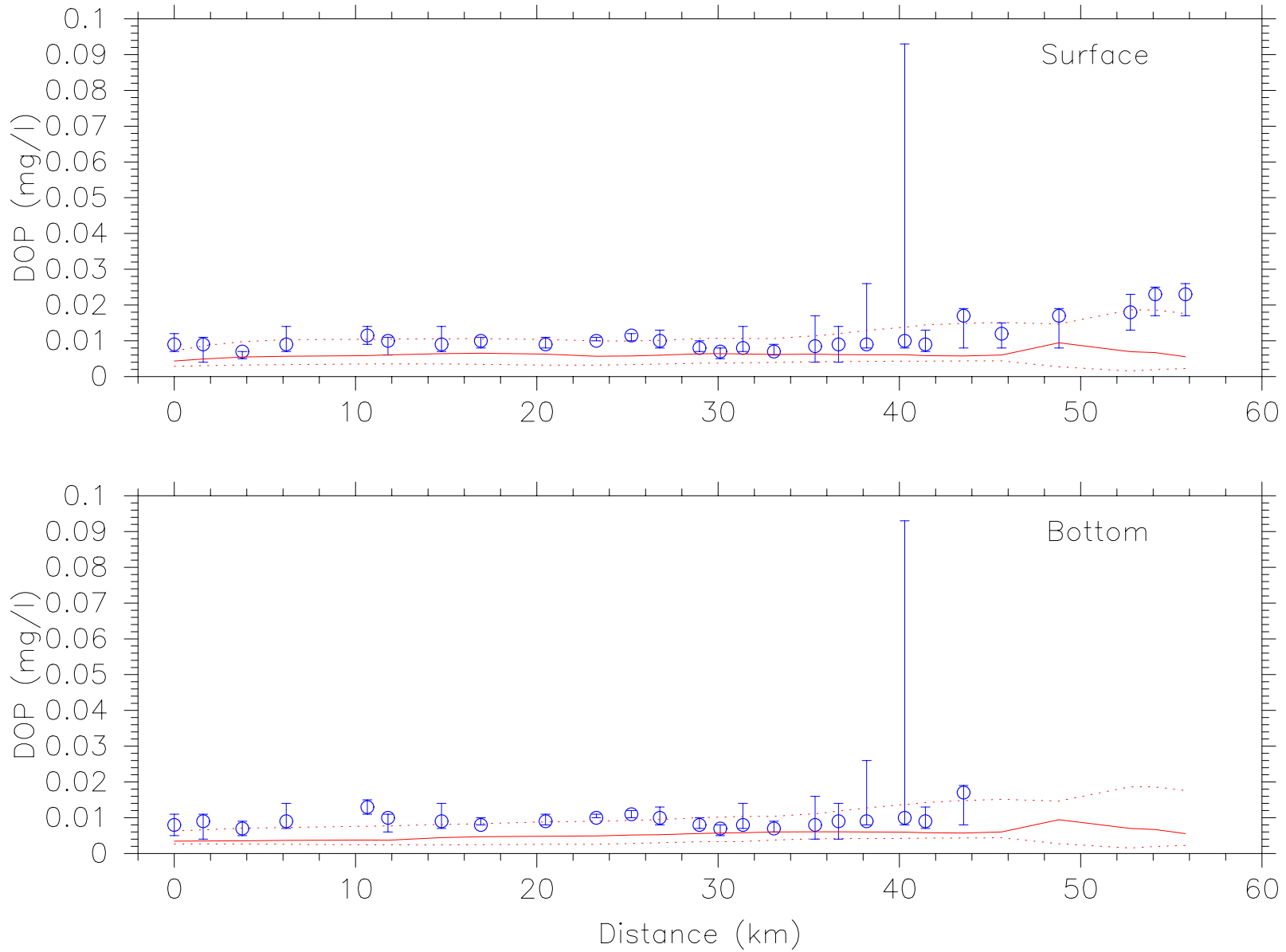
Dissolved Inorganic Phosphorus, Chester River, Mar – May, 1999



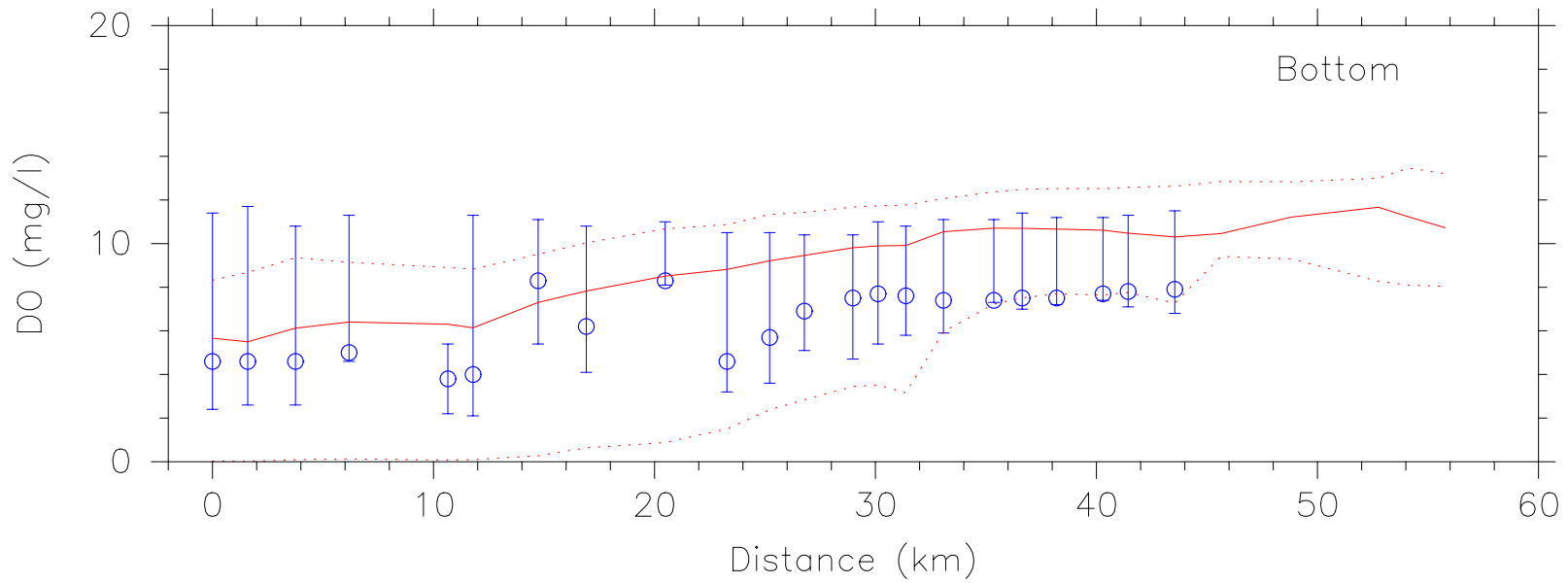
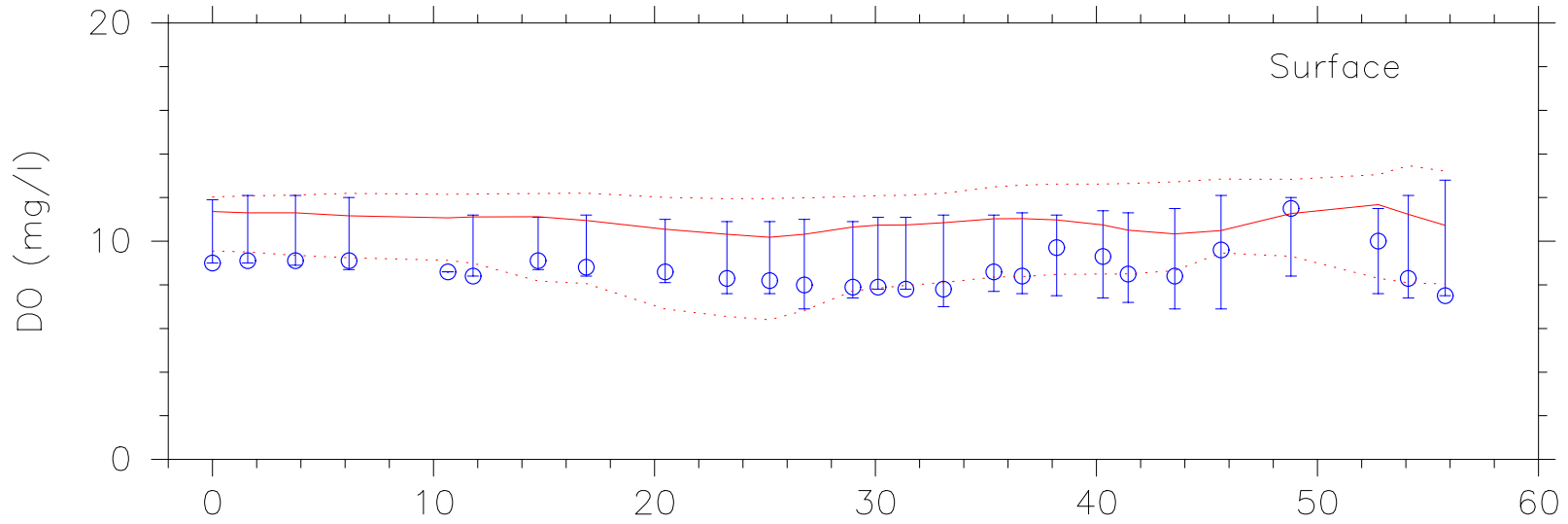
Dissolved Organic Nitrogen, Chester River, Mar – May, 1999



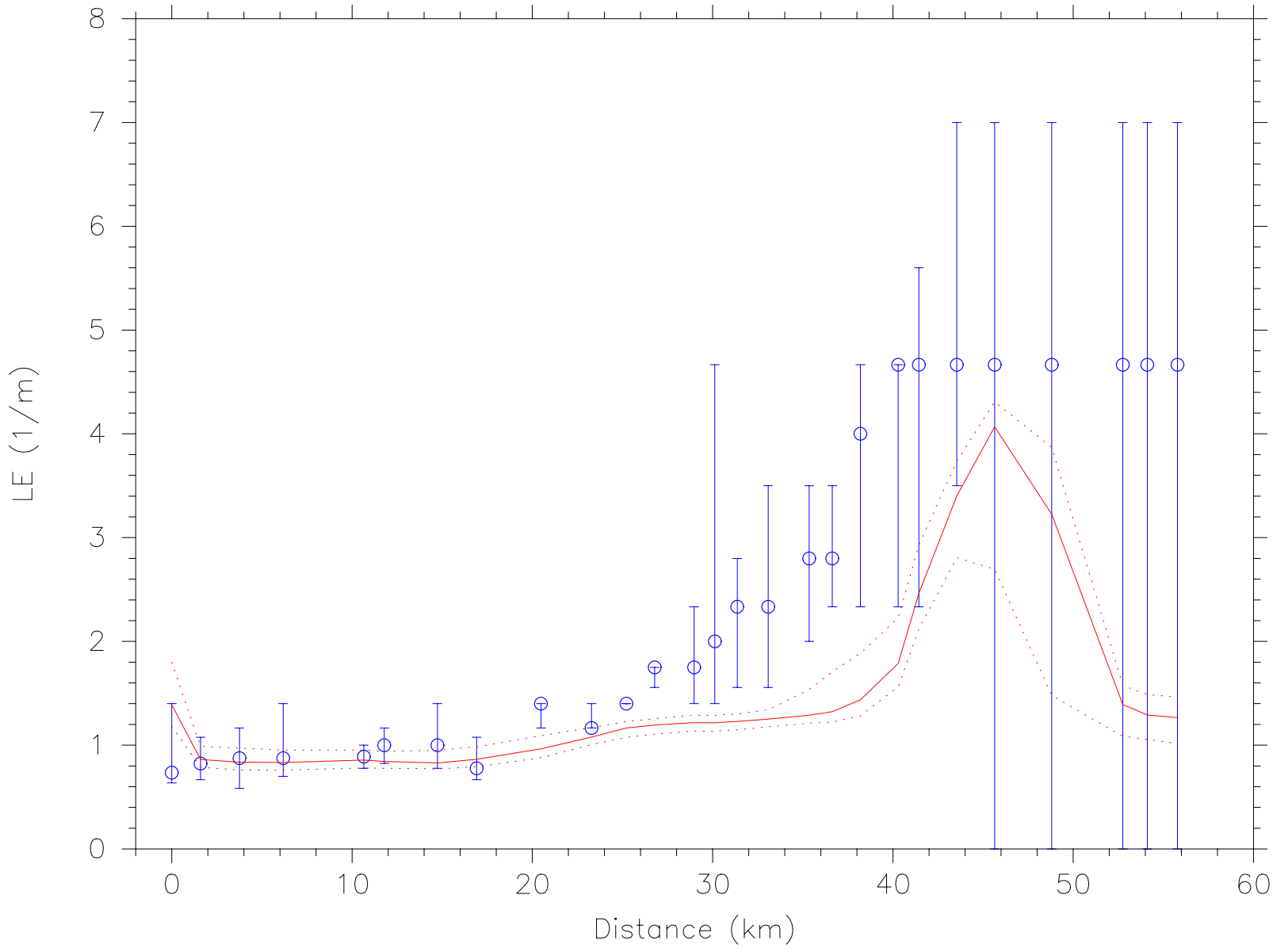
Dissolved Organic Phosphorus, Chester River, Mar – May, 1999



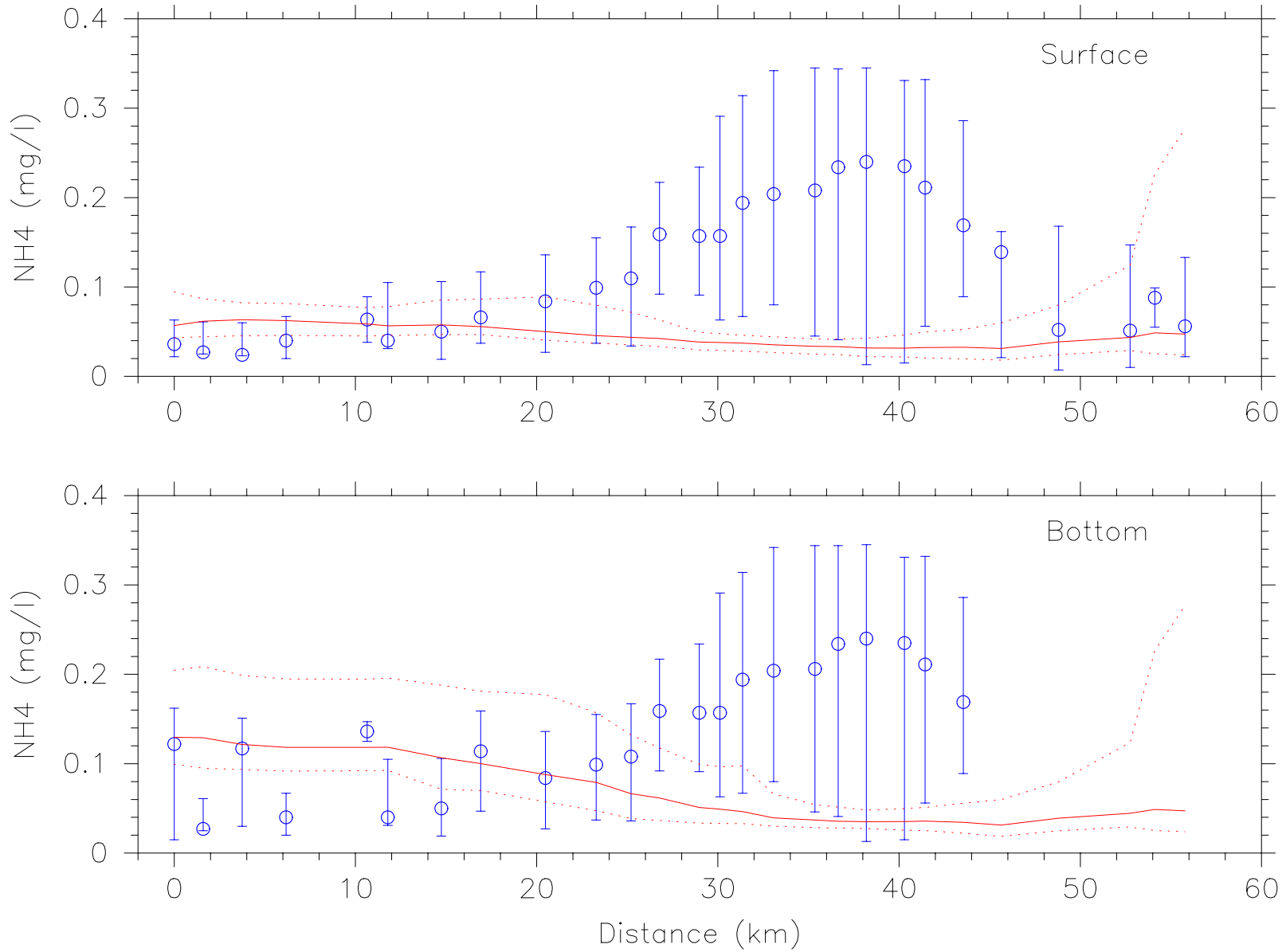
Dissolved Oxygen, Chester River, Mar – May, 1999



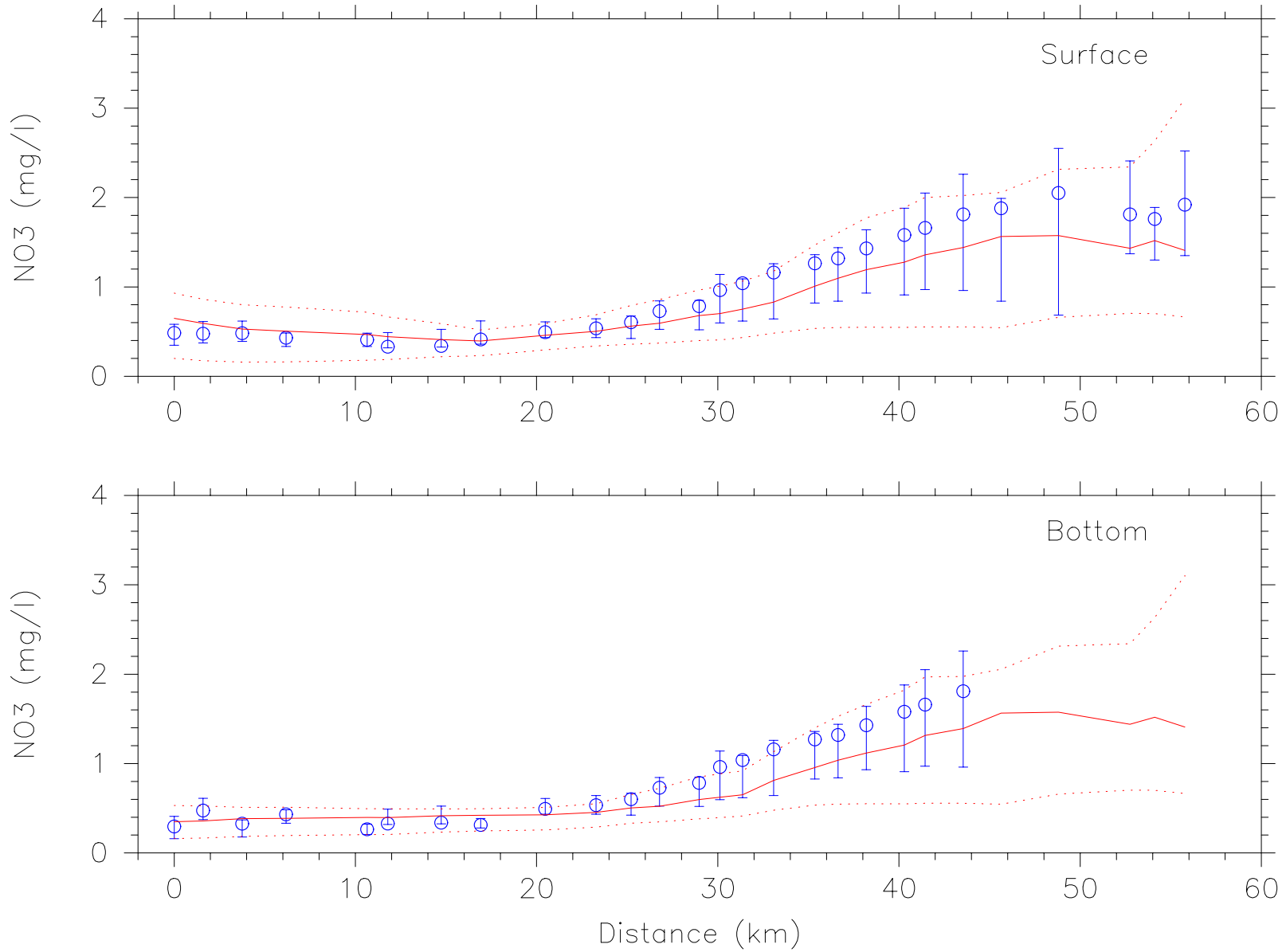
Light Extinction, Chester River, Mar – May, 1999



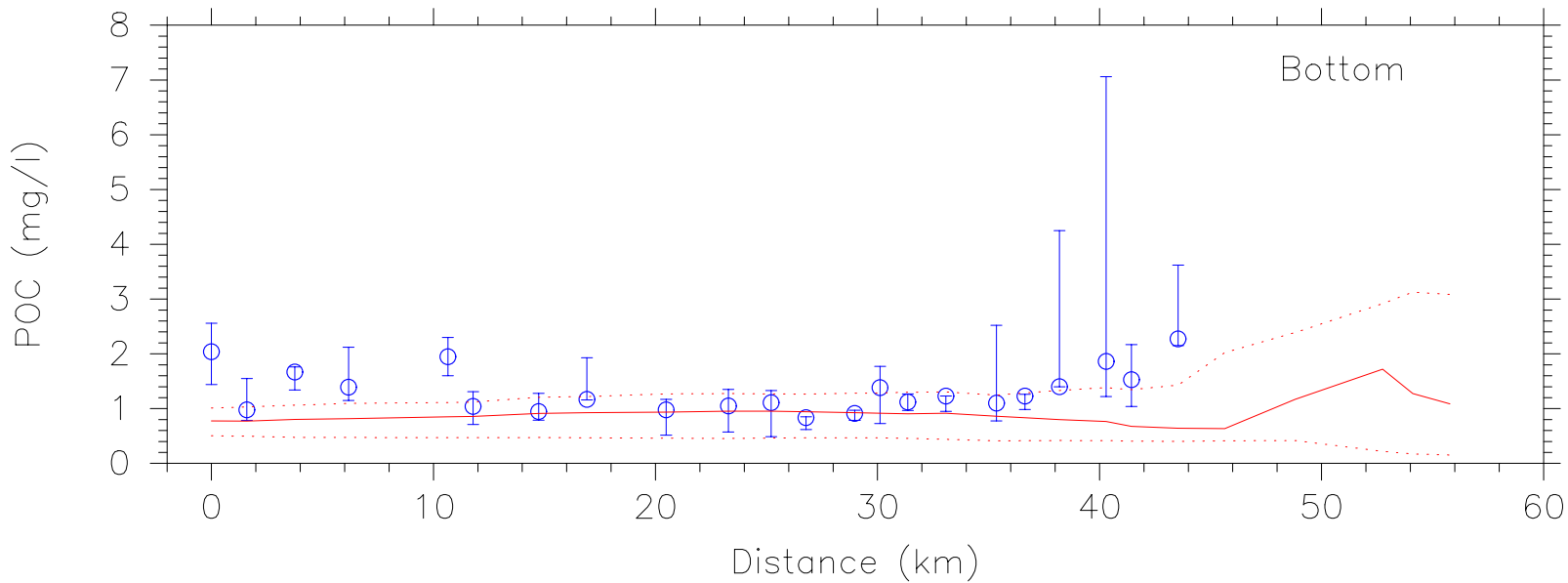
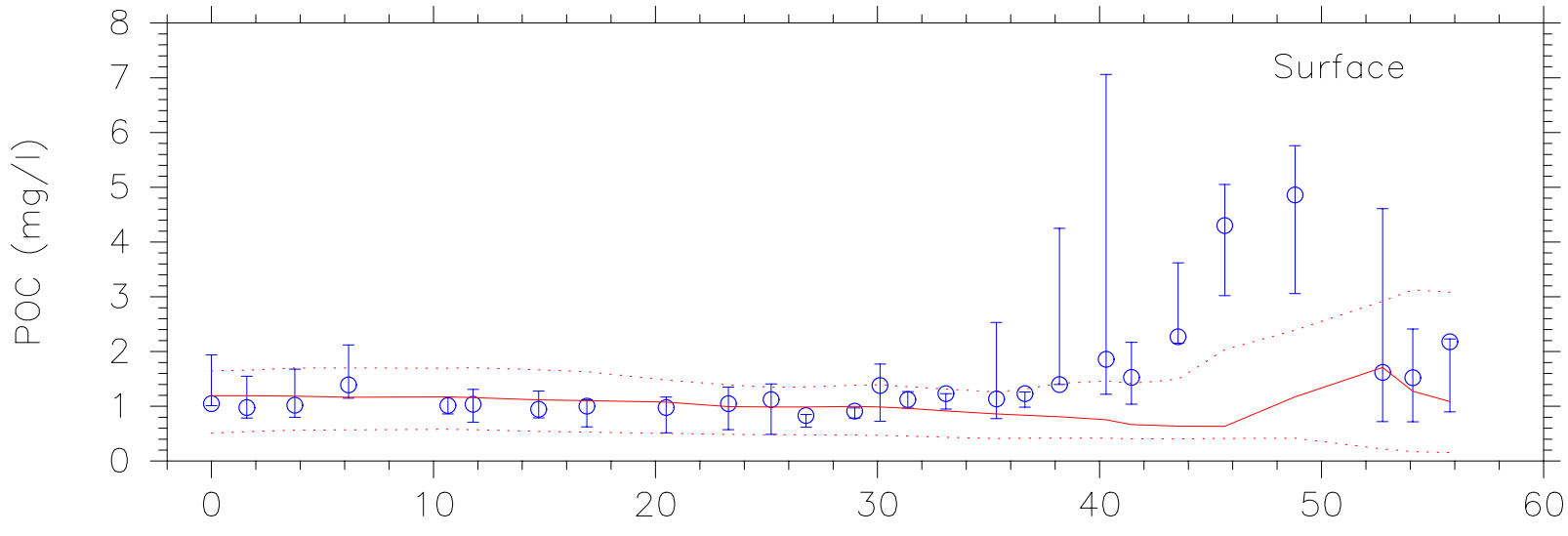
Ammonium, Chester River, Mar – May, 1999



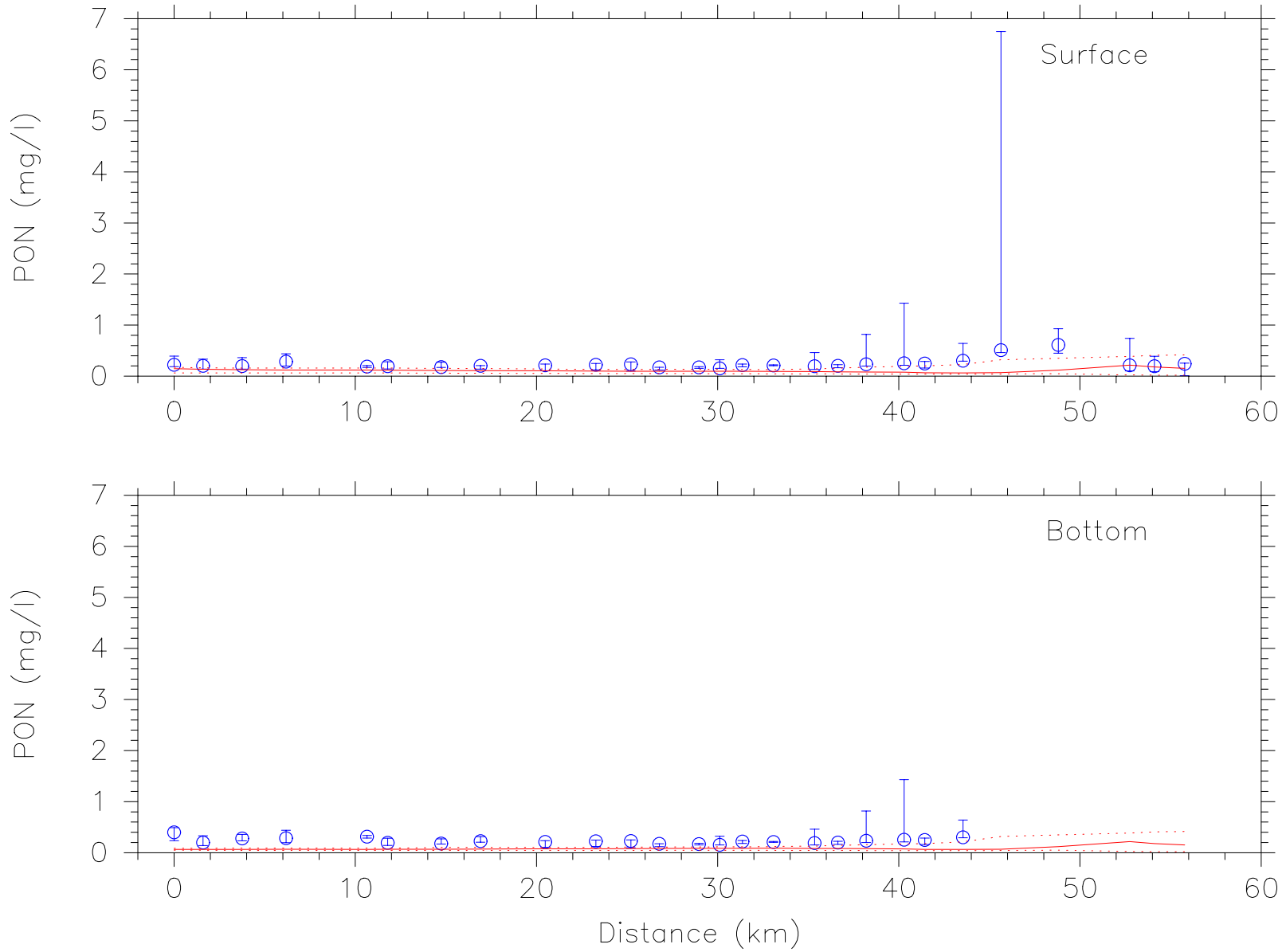
Nitrate, Chester River, Mar – May, 1999



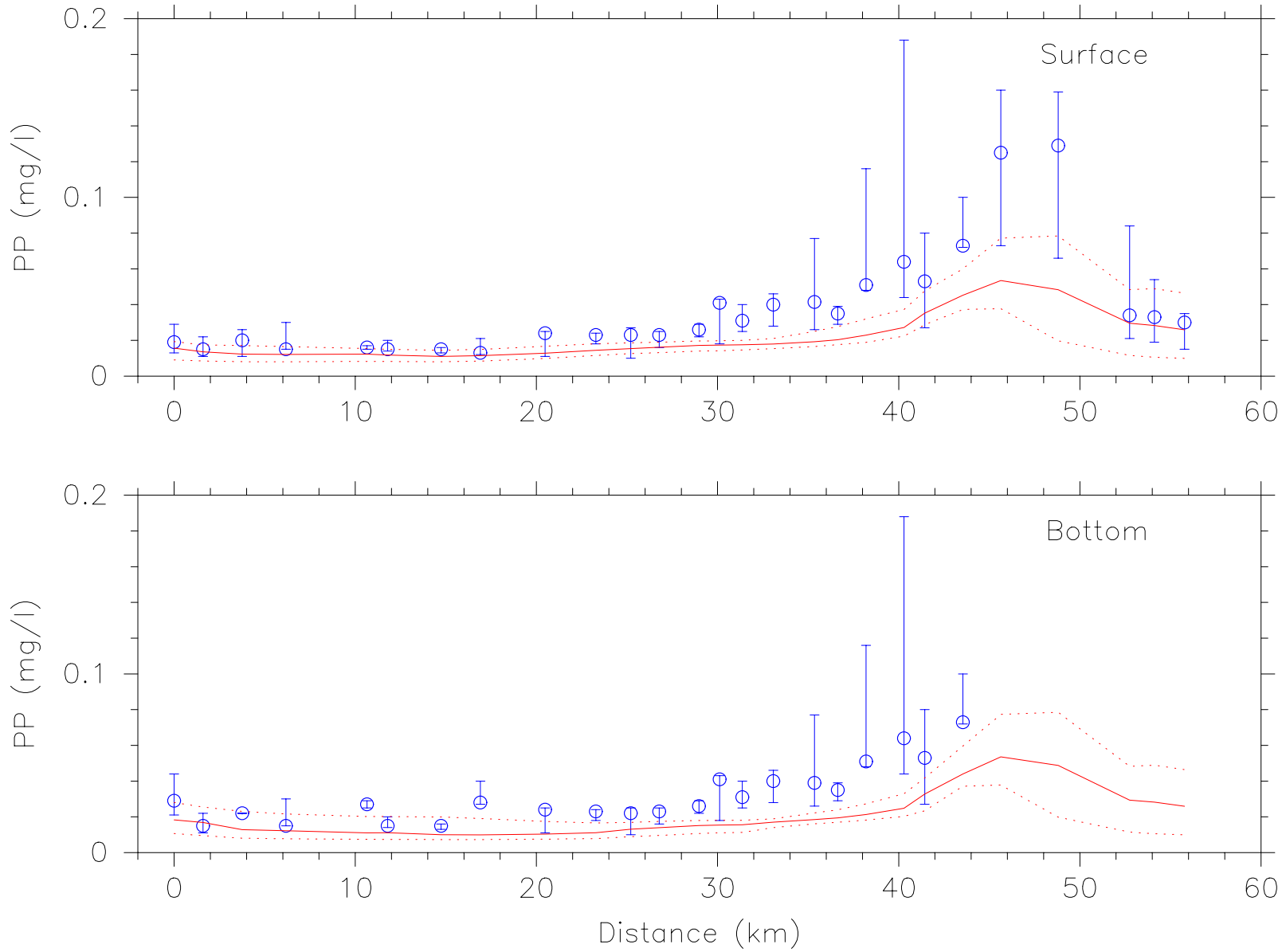
Particulate Organic Carbon, Chester River, Mar – May, 1999



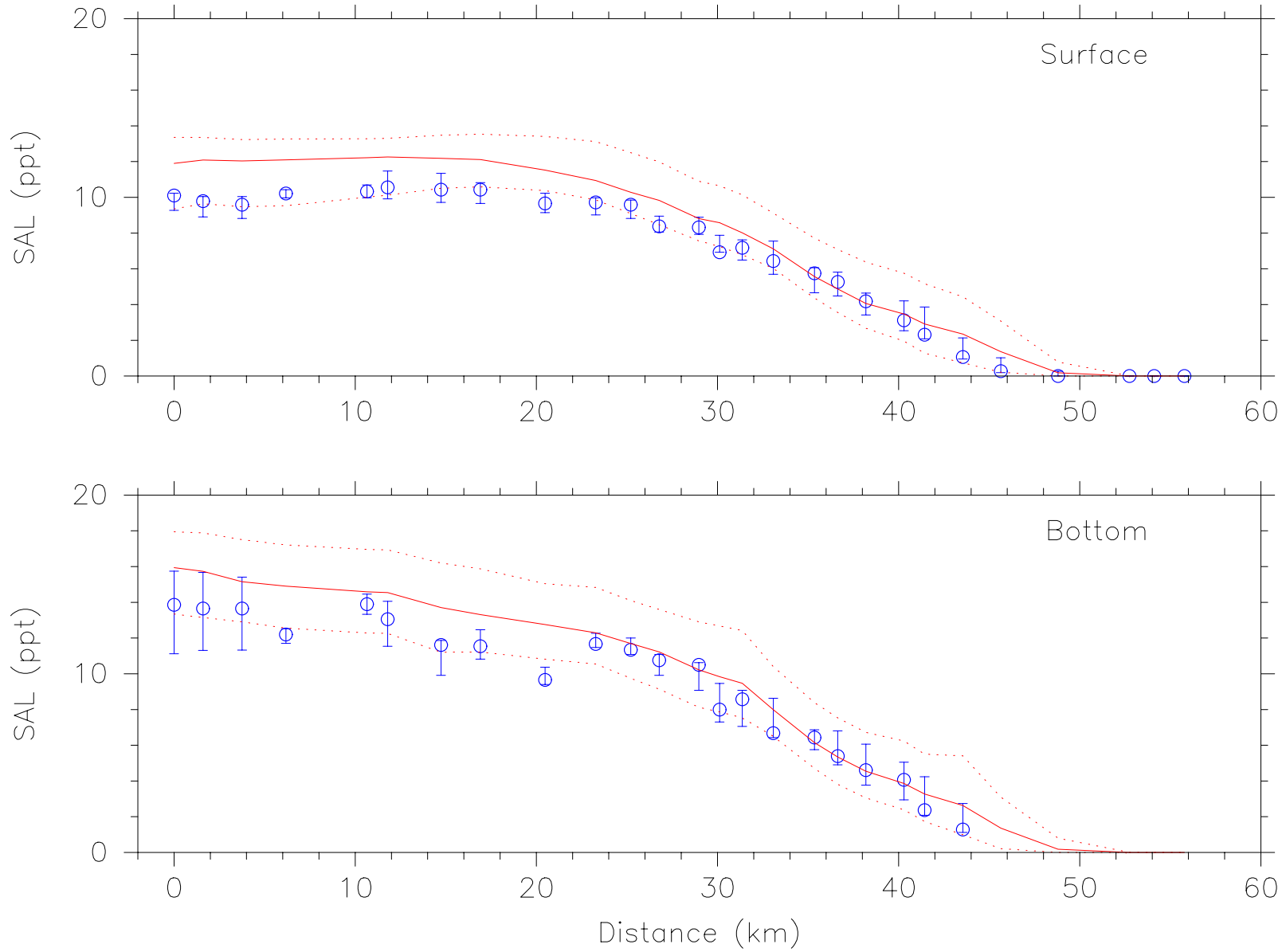
Particulate Organic Nitrogen, Chester River, Mar – May, 1999



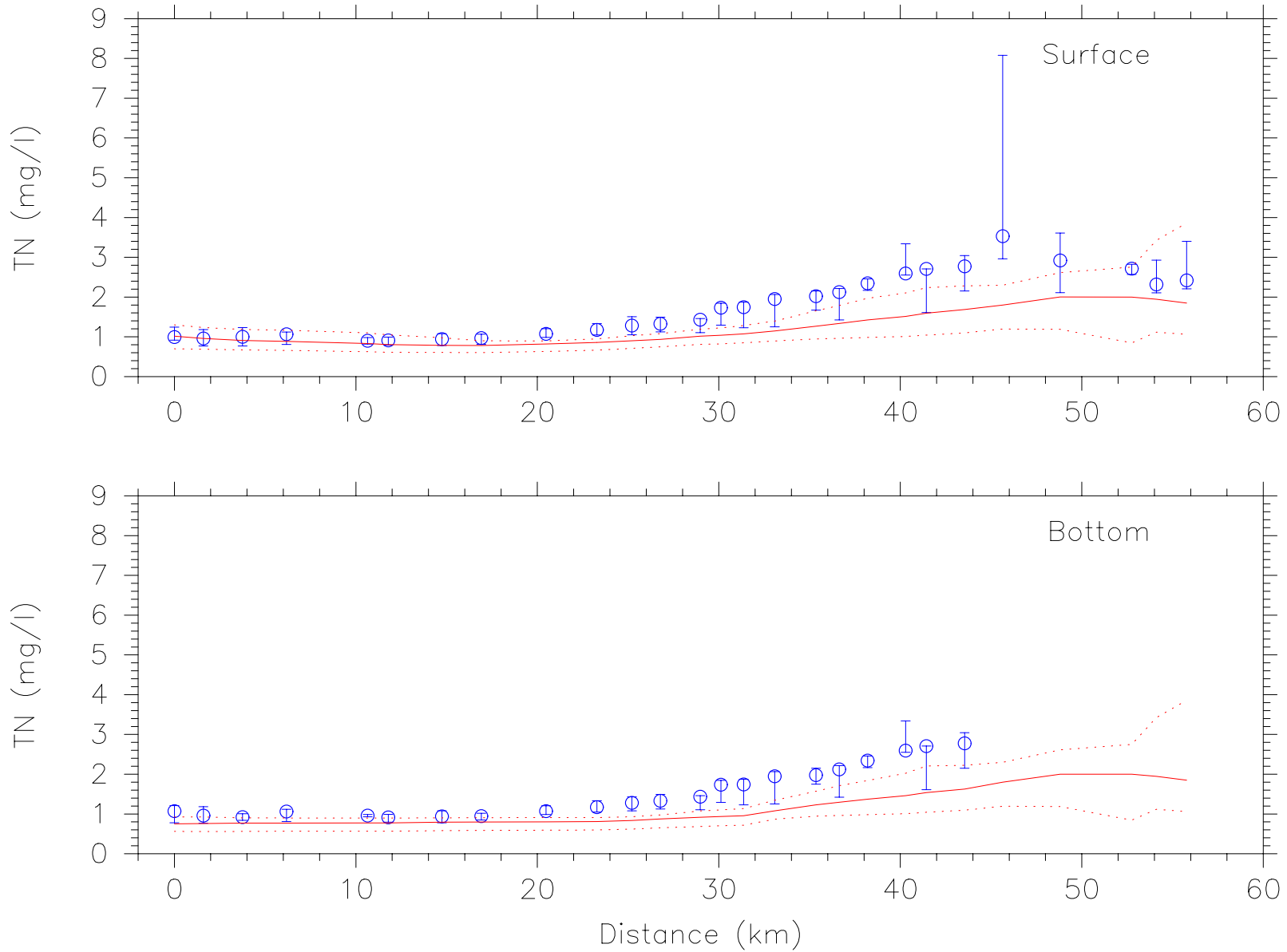
Particulate Phosphorus, Chester River, Mar – May, 1999



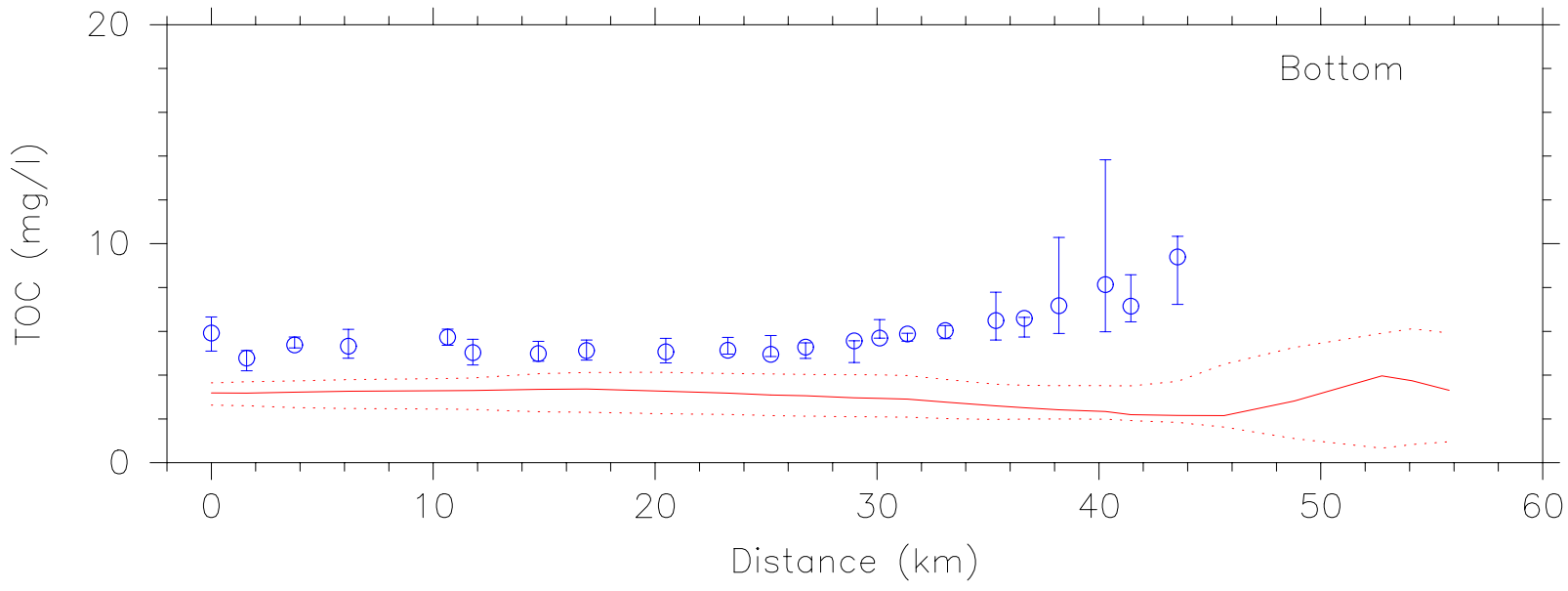
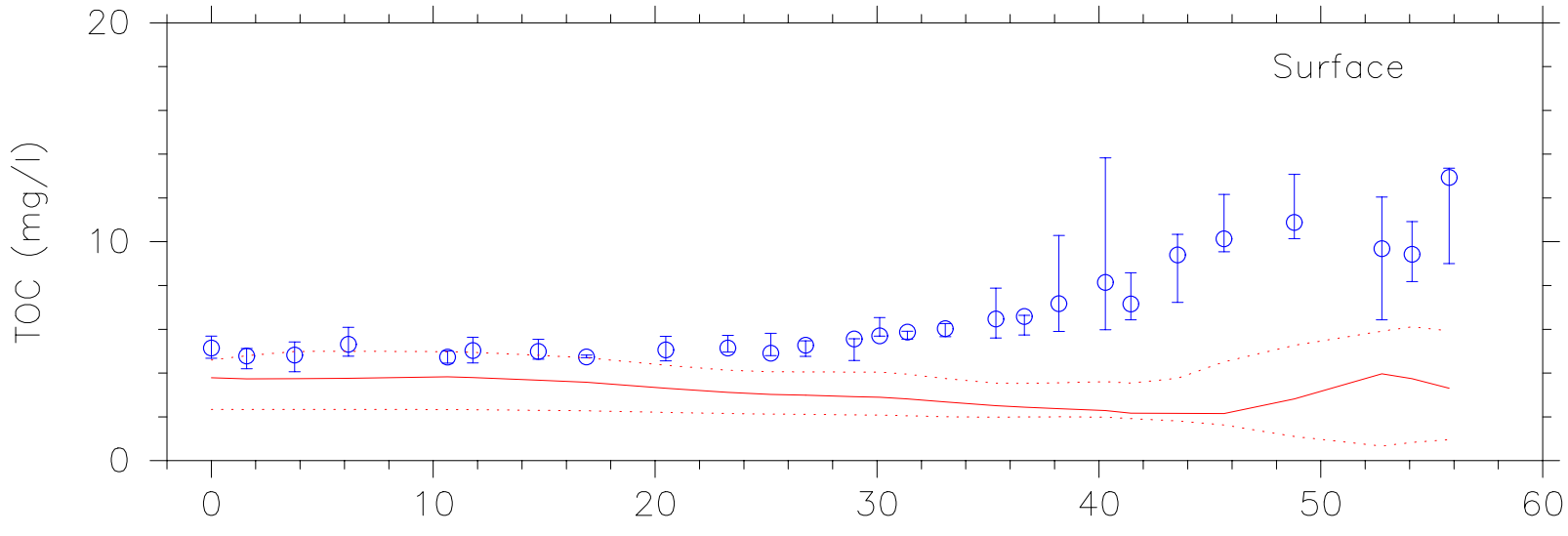
Salinity, Chester River, Mar – May, 1999



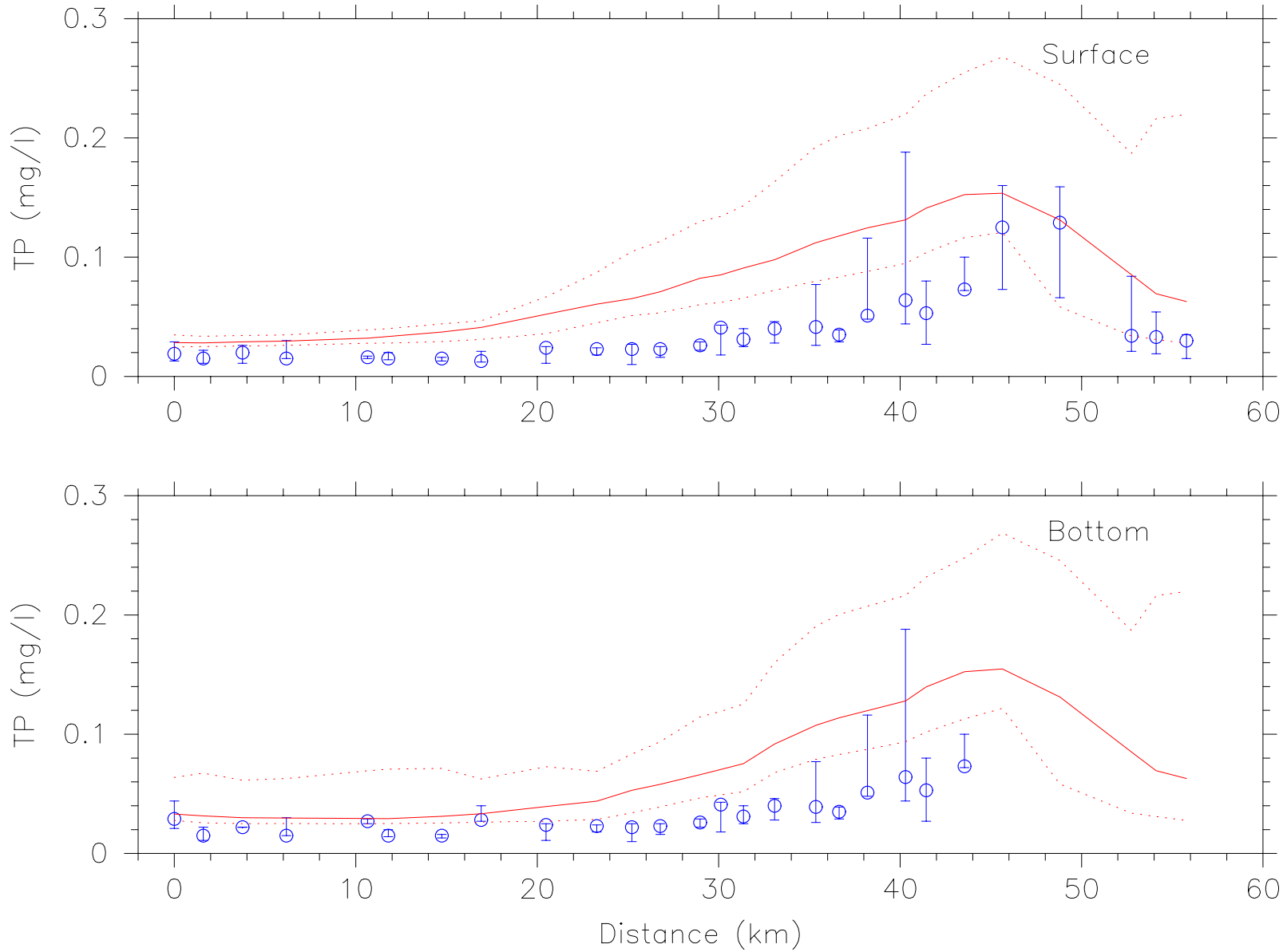
Total Nitrogen, Chester River, Mar – May, 1999



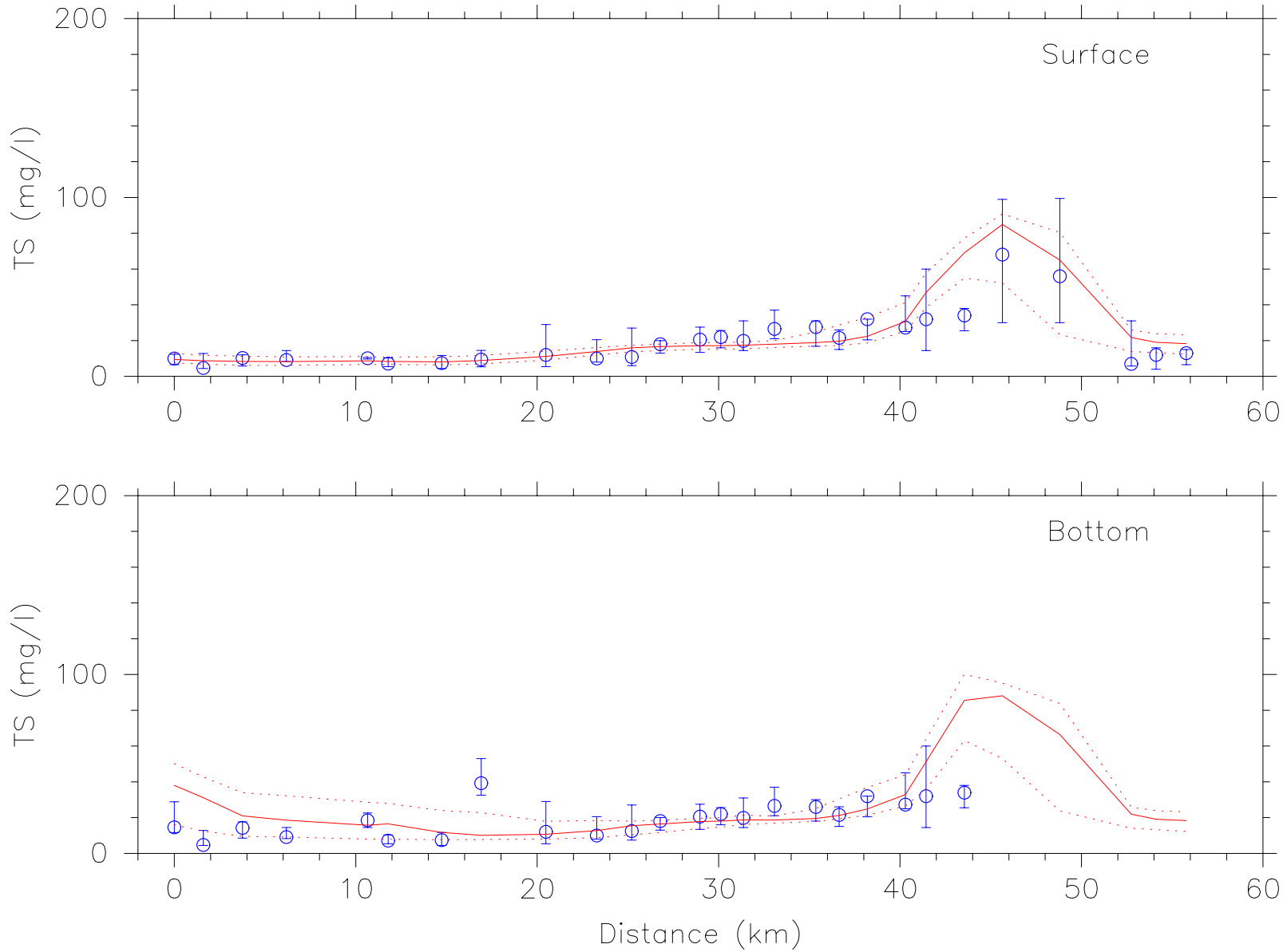
Total Organic Carbon, Chester River, Mar – May, 1999



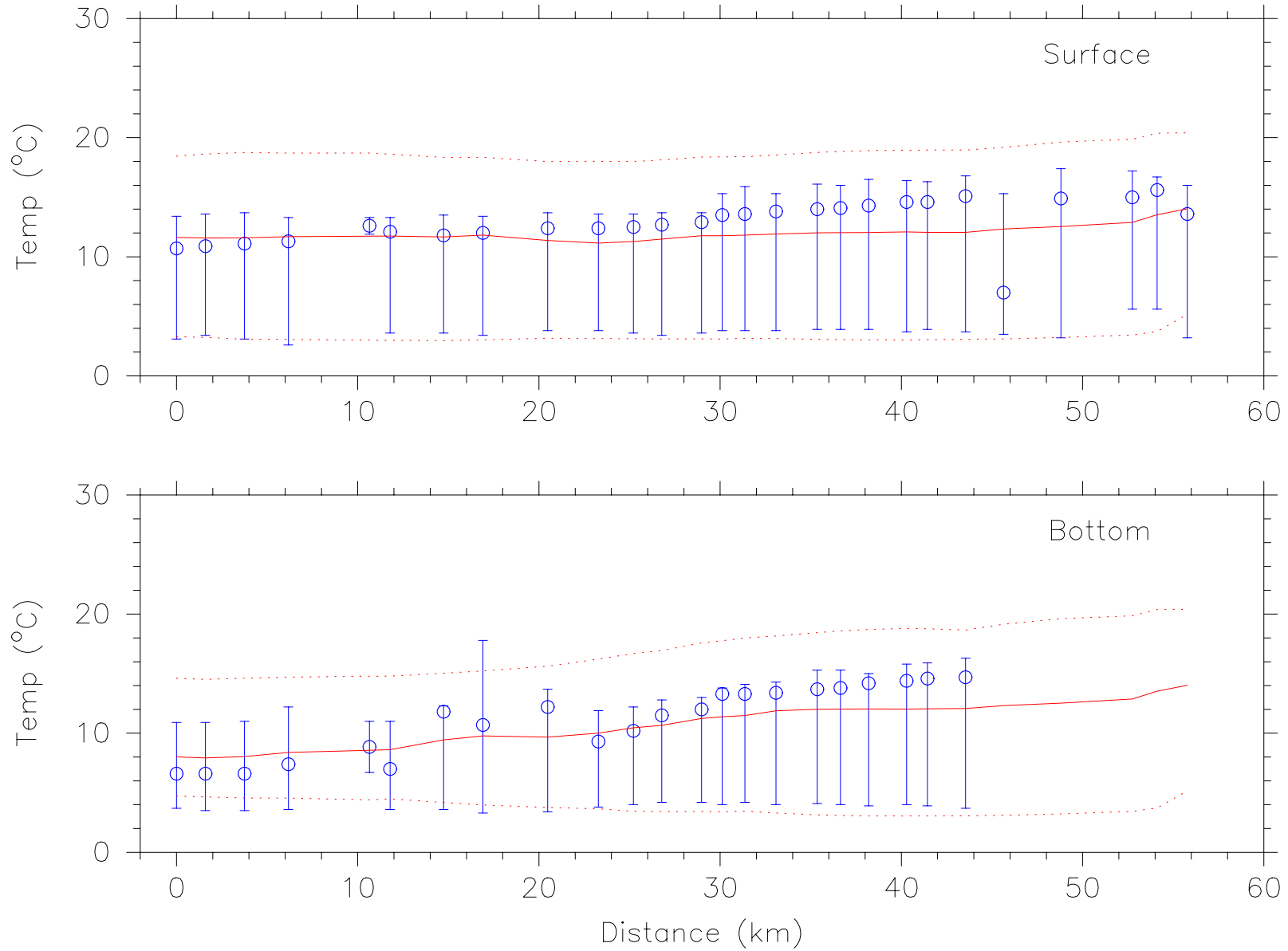
Total Phosphorus, Chester River, Mar – May, 1999



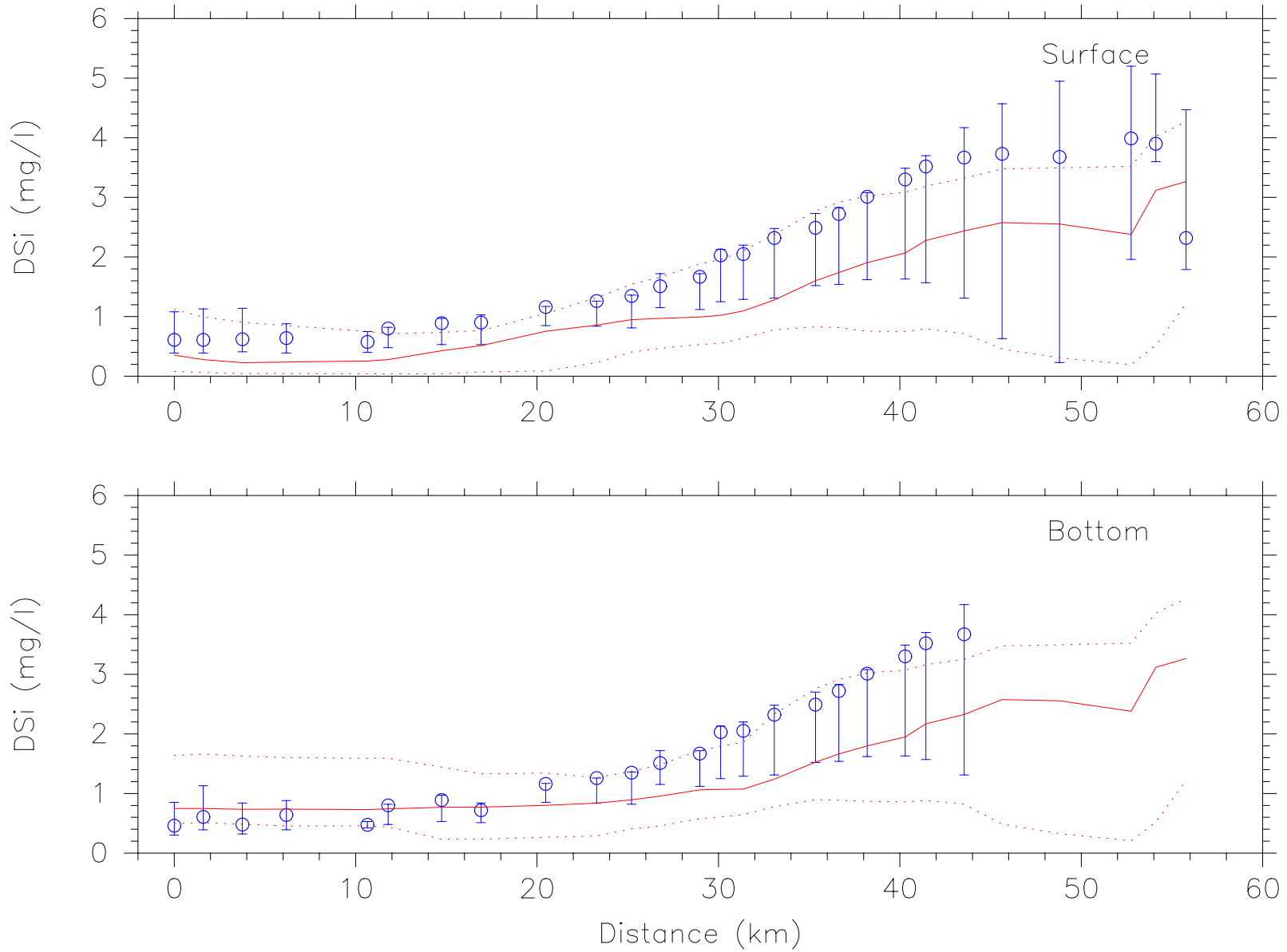
Total Solids, Chester River, Mar – May, 1999



Temperature, Chester River, Mar – May, 1999



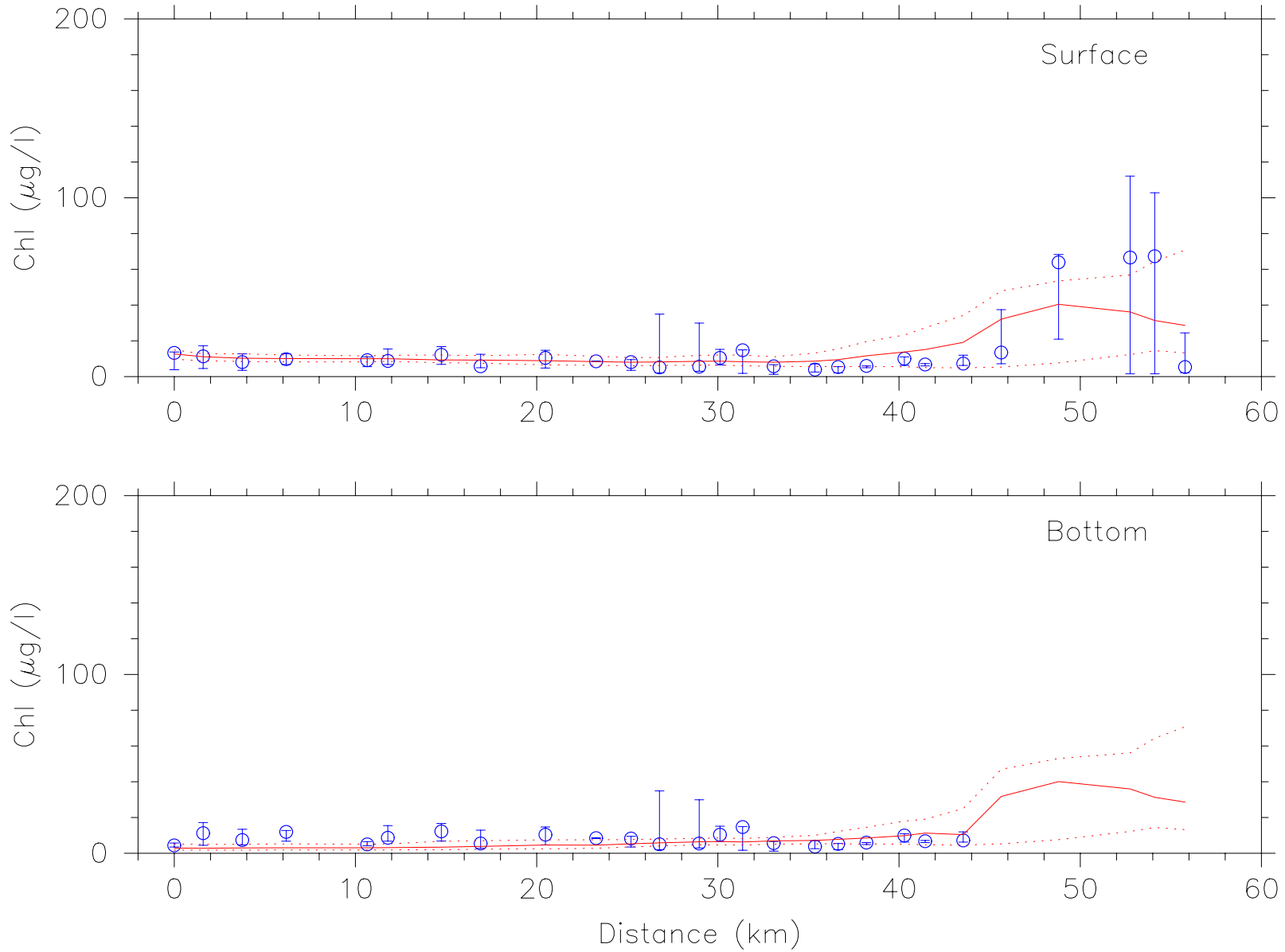
Dissolved Silica, Chester River, Mar – May, 1999



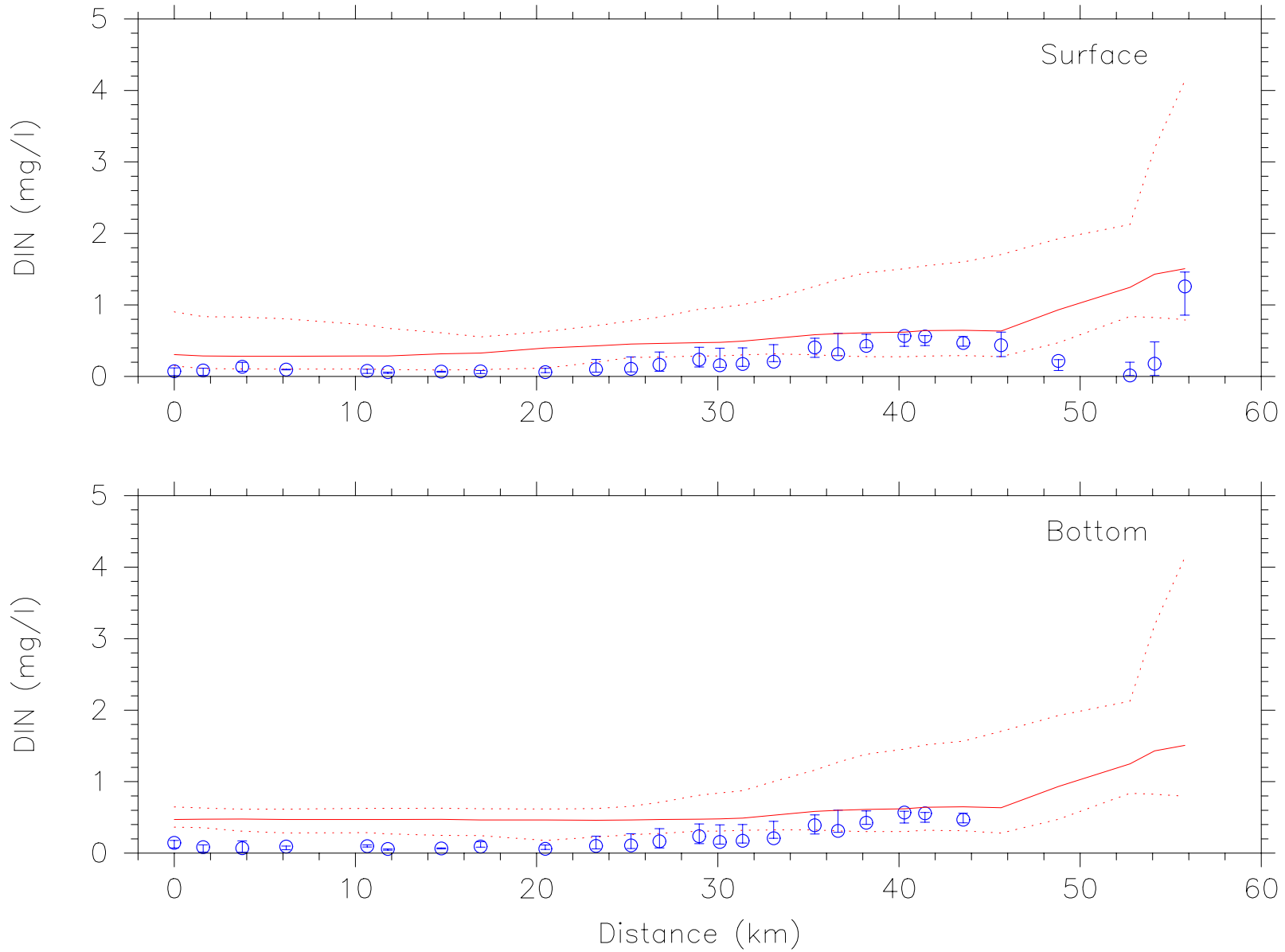
Appendix 5-F

This appendix contains longitudinal plots of computed and observed properties at 1999 MDE intensive survey stations in the Chester River during dry season (June – August).

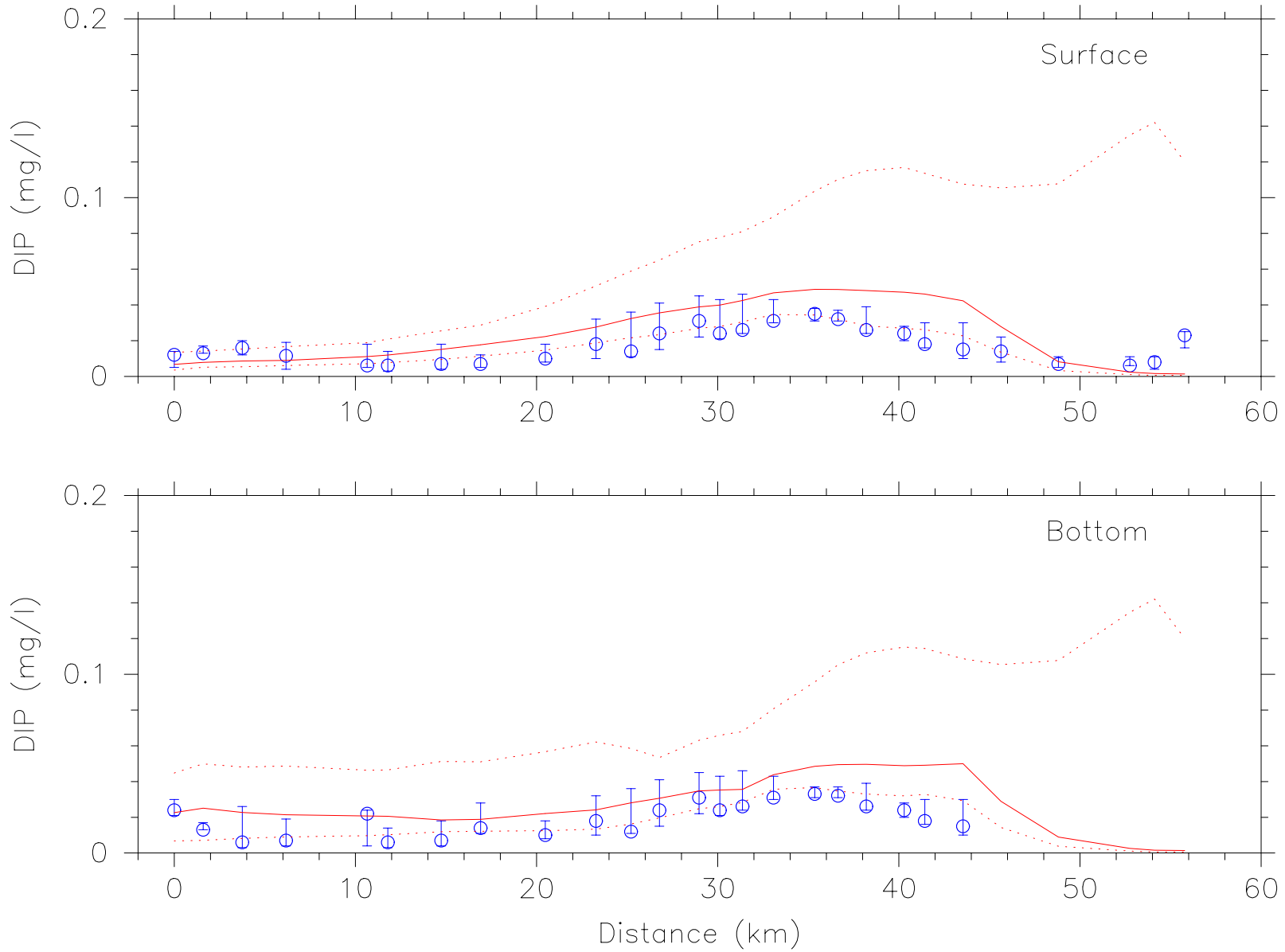
Chlorophyll, Chester River, Jun – Sep, 1999



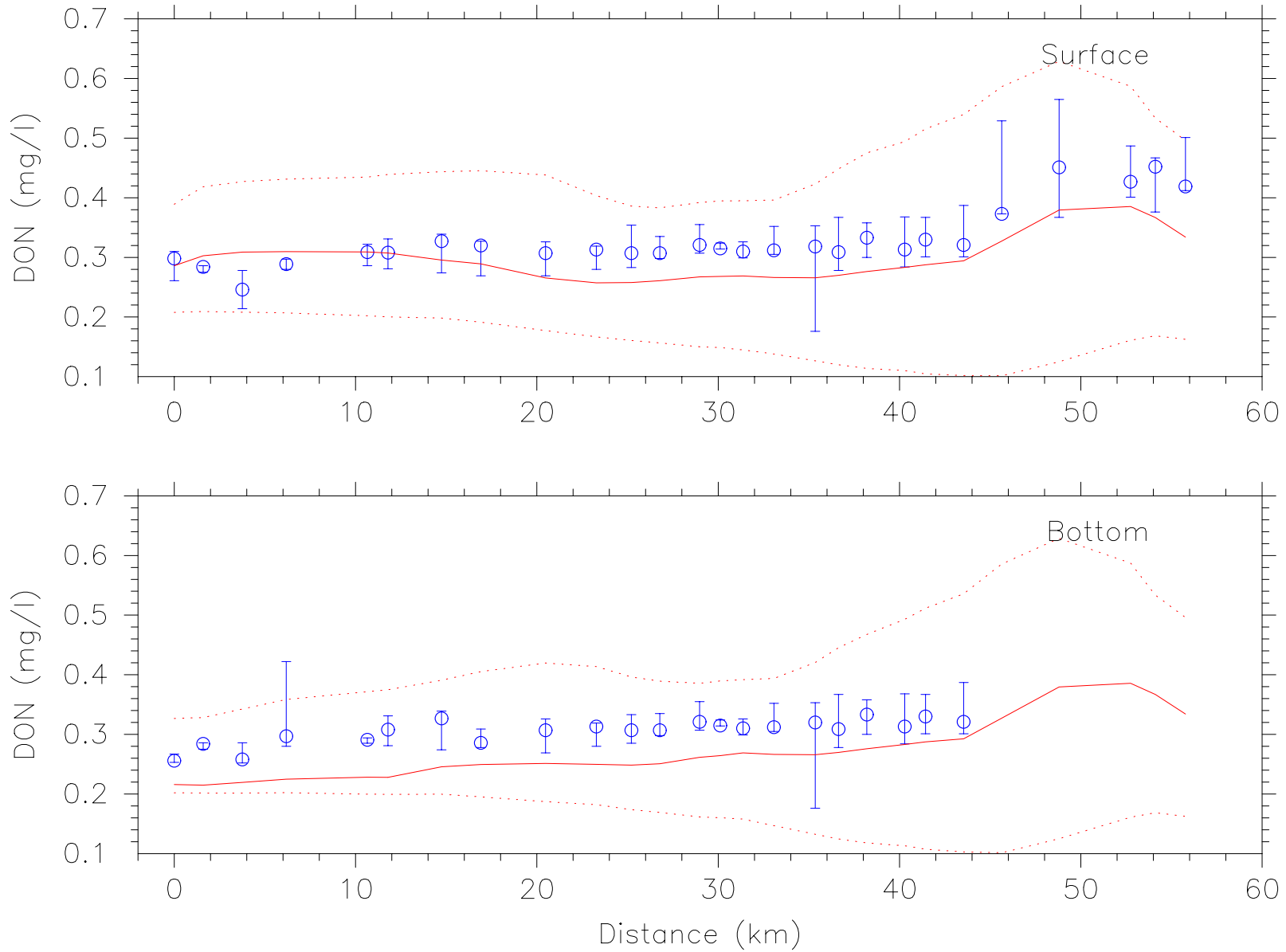
Dissolved Inorganic Nitrogen, Chester River, Jun – Sep, 1999



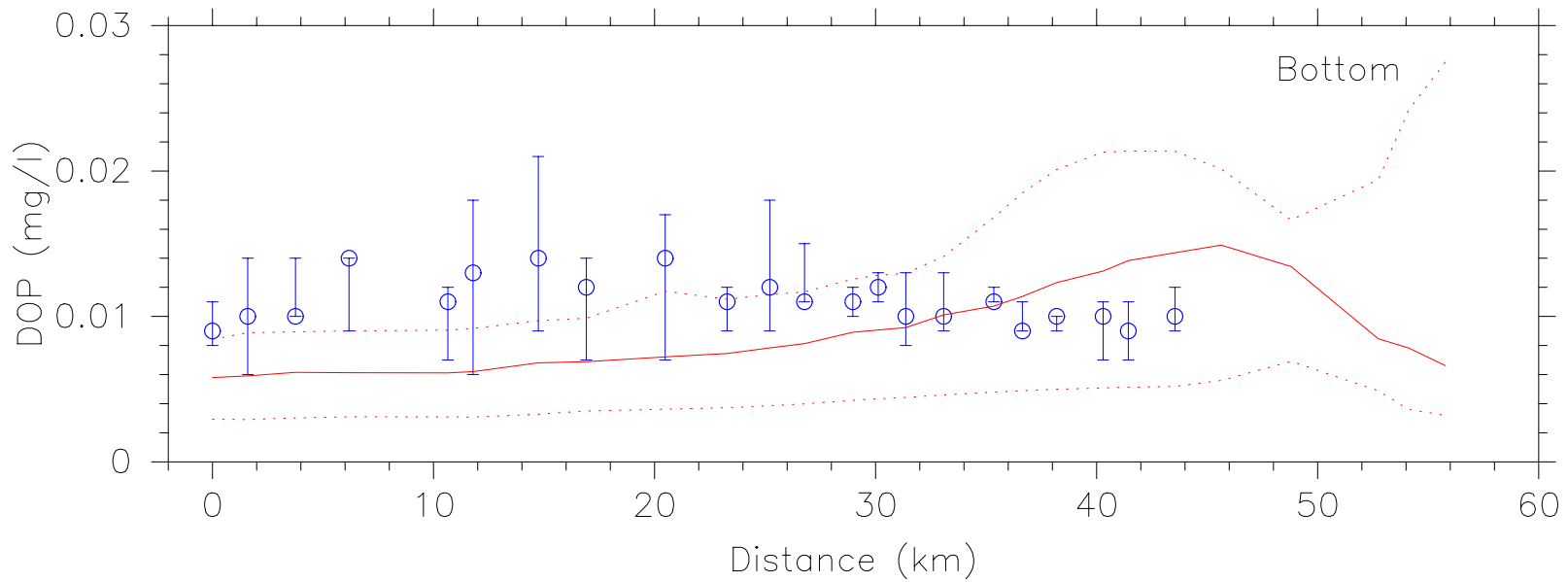
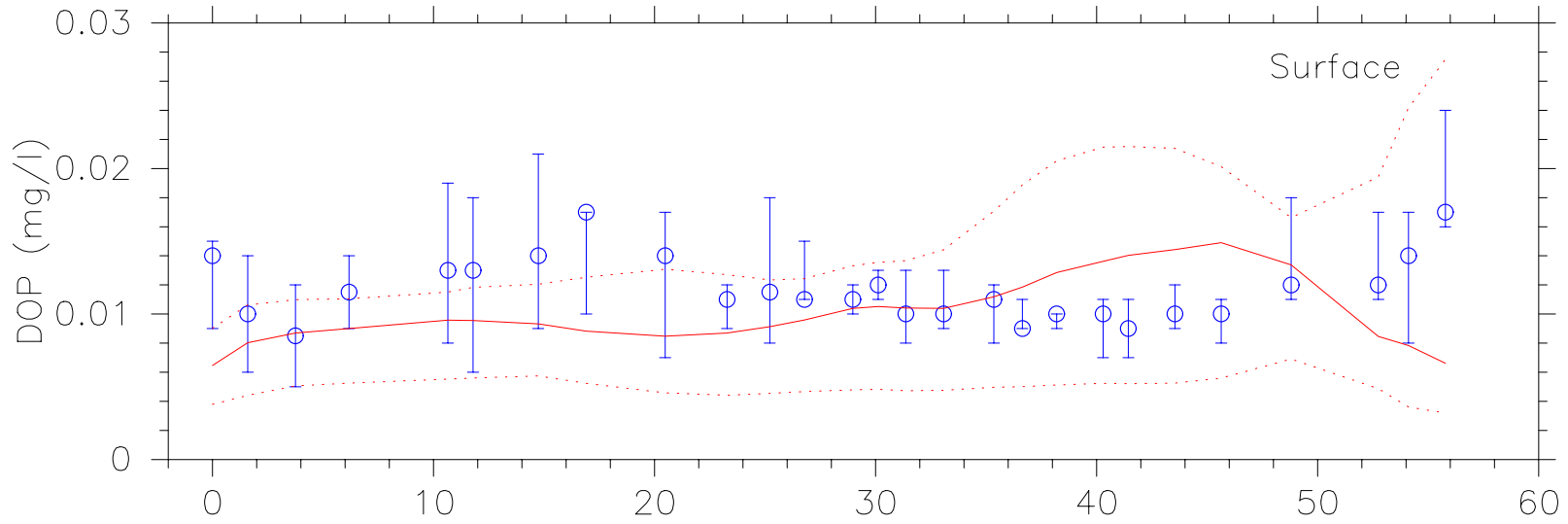
Dissolved Inorganic Phosphorus, Chester River, Jun – Sep, 1999



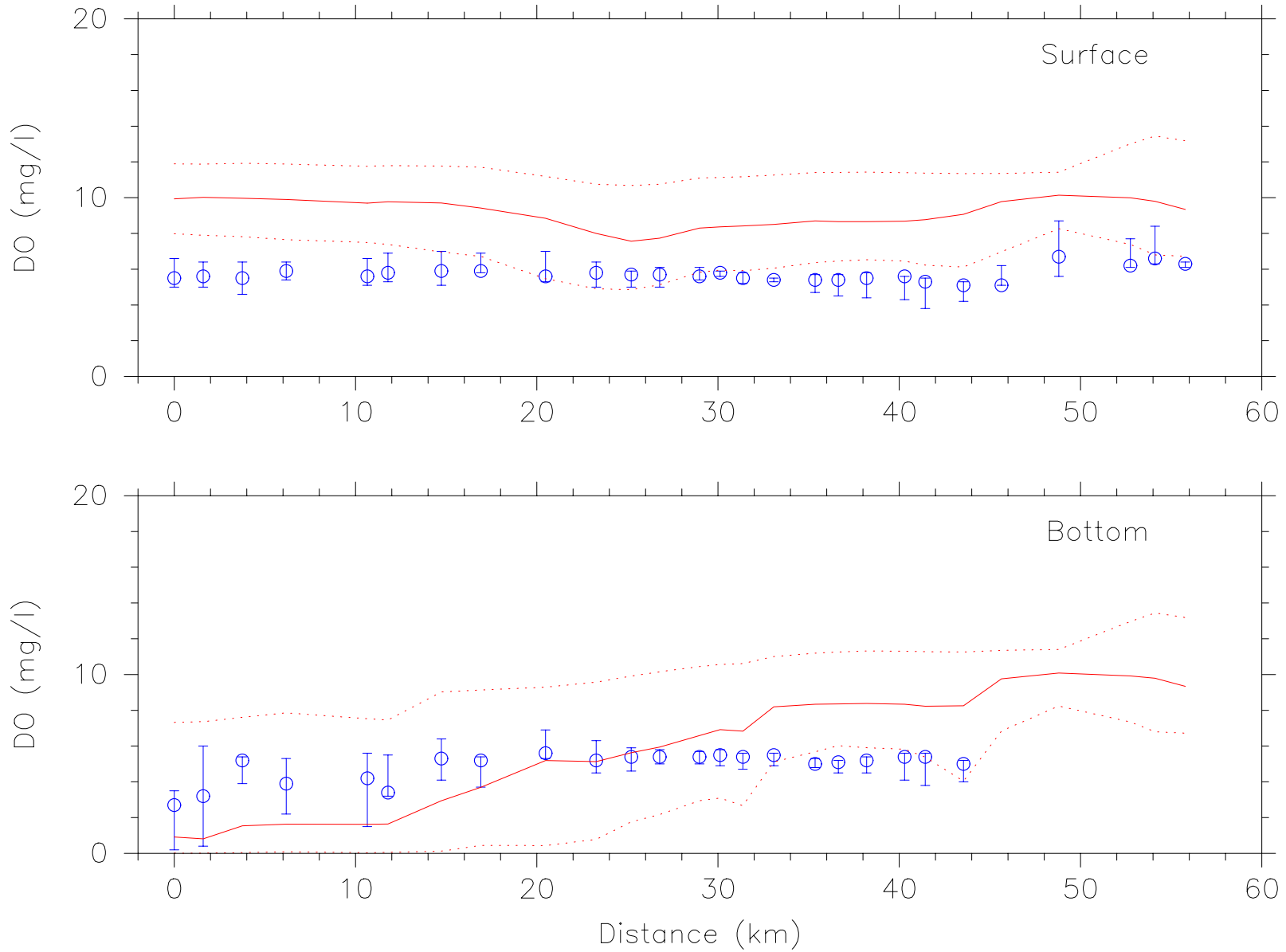
Dissolved Organic Nitrogen, Chester River, Jun – Sep, 1999



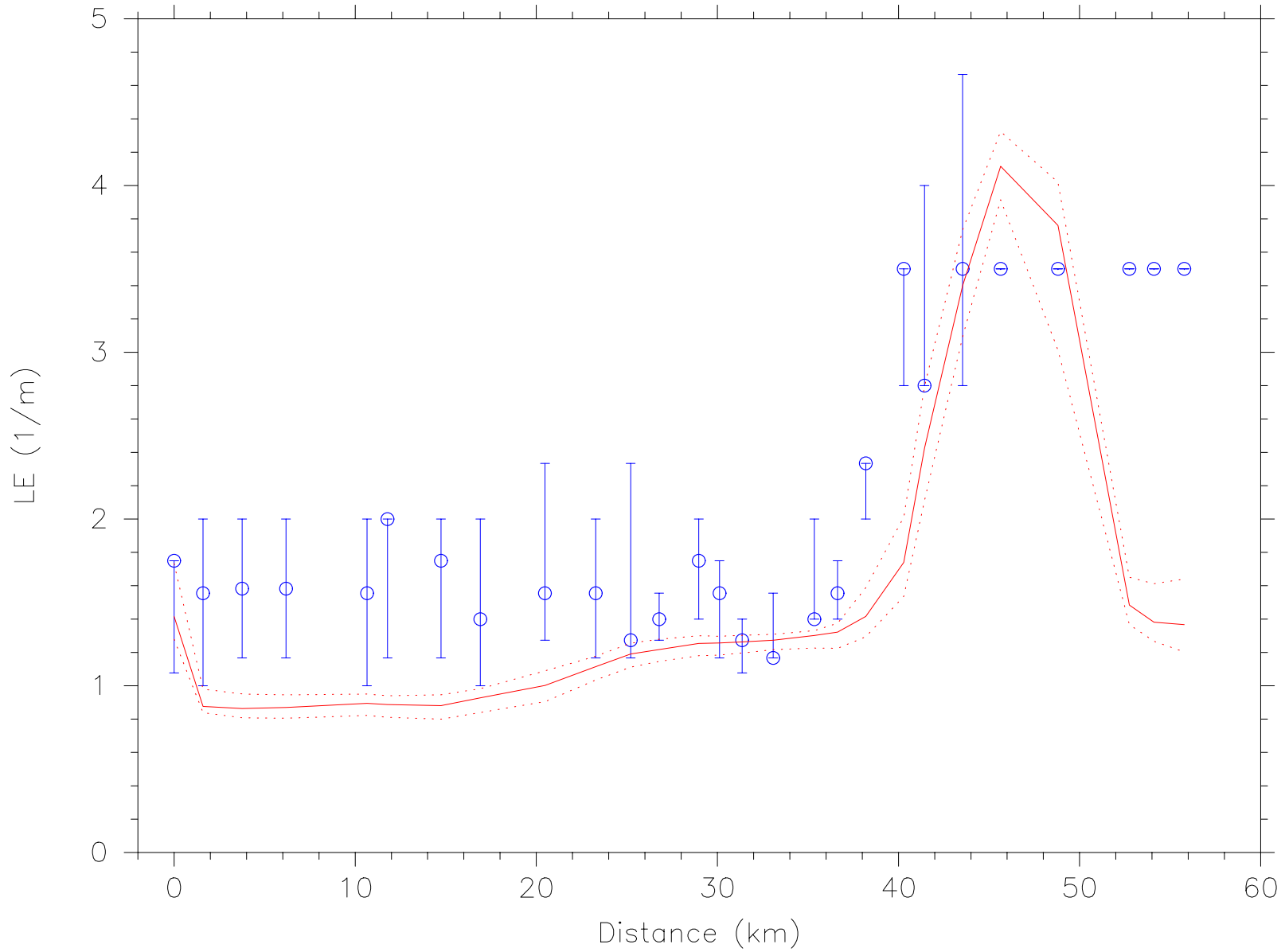
Dissolved Organic Phosphorus, Chester River, Jun – Sep, 1999



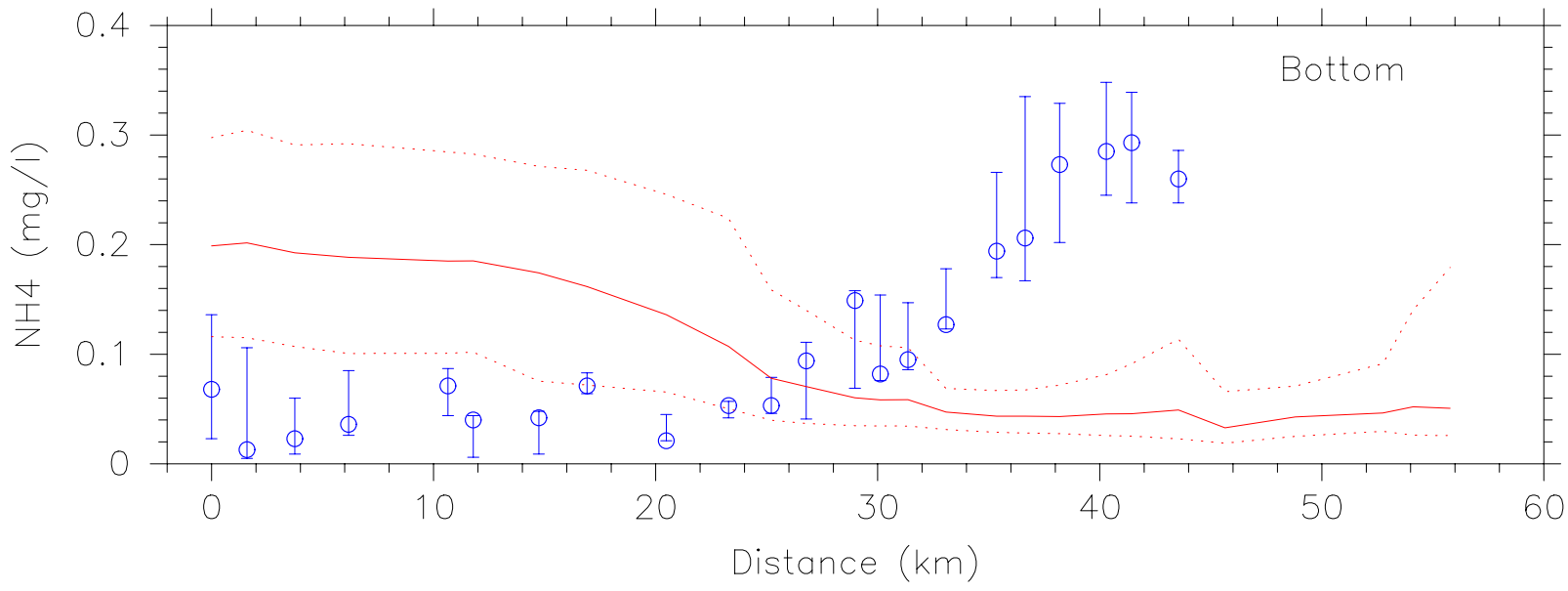
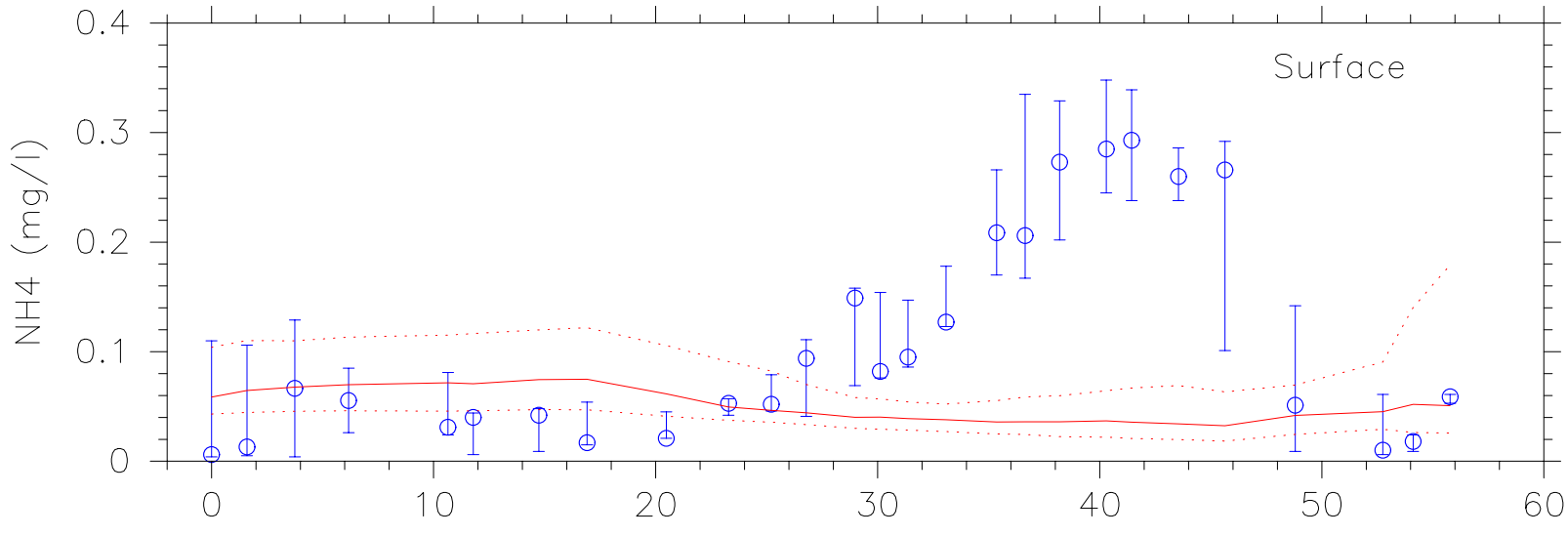
Dissolved Oxygen, Chester River, Jun – Sep, 1999



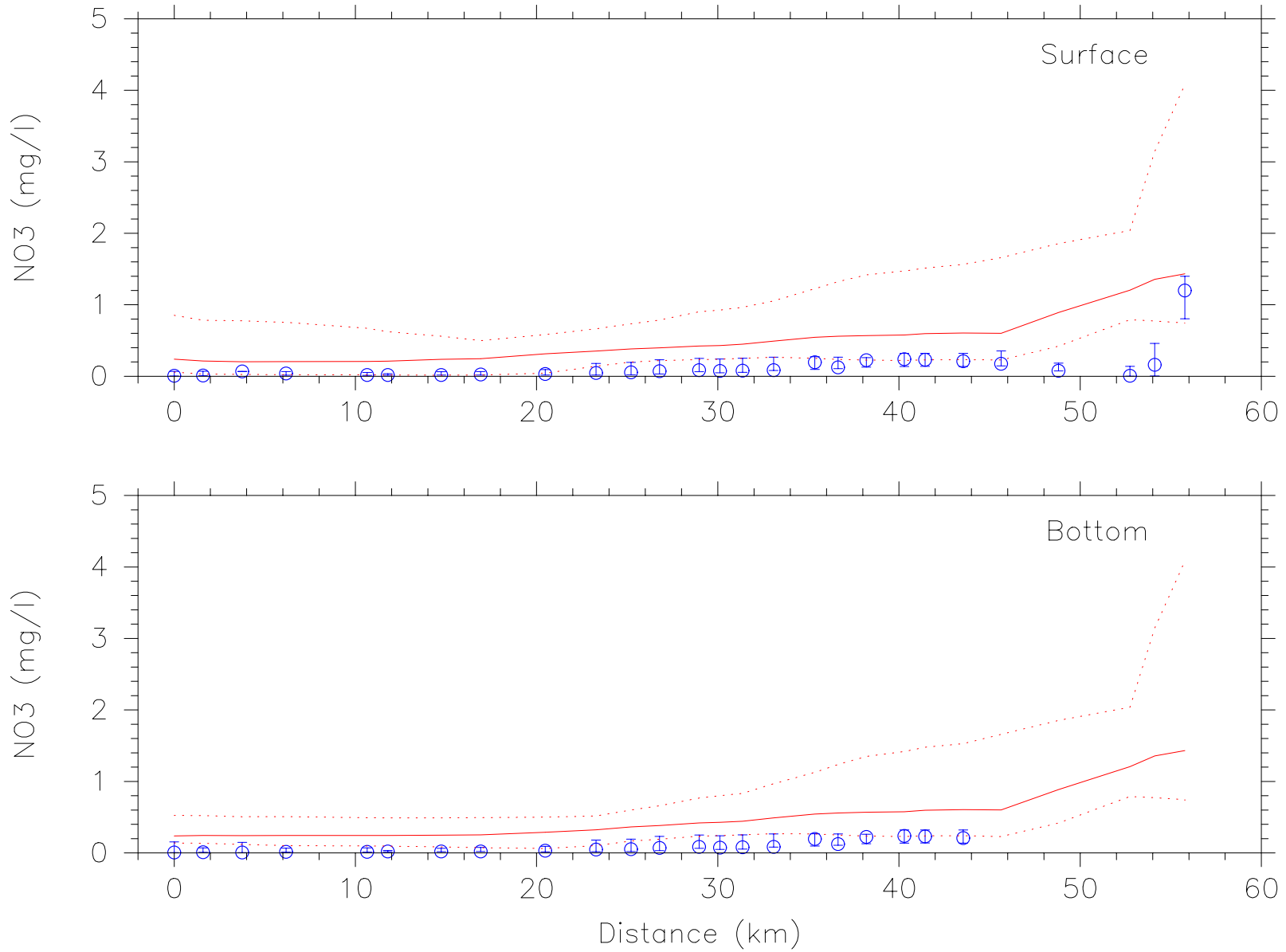
Light Extinction, Chester River, Jun – Sep, 1999



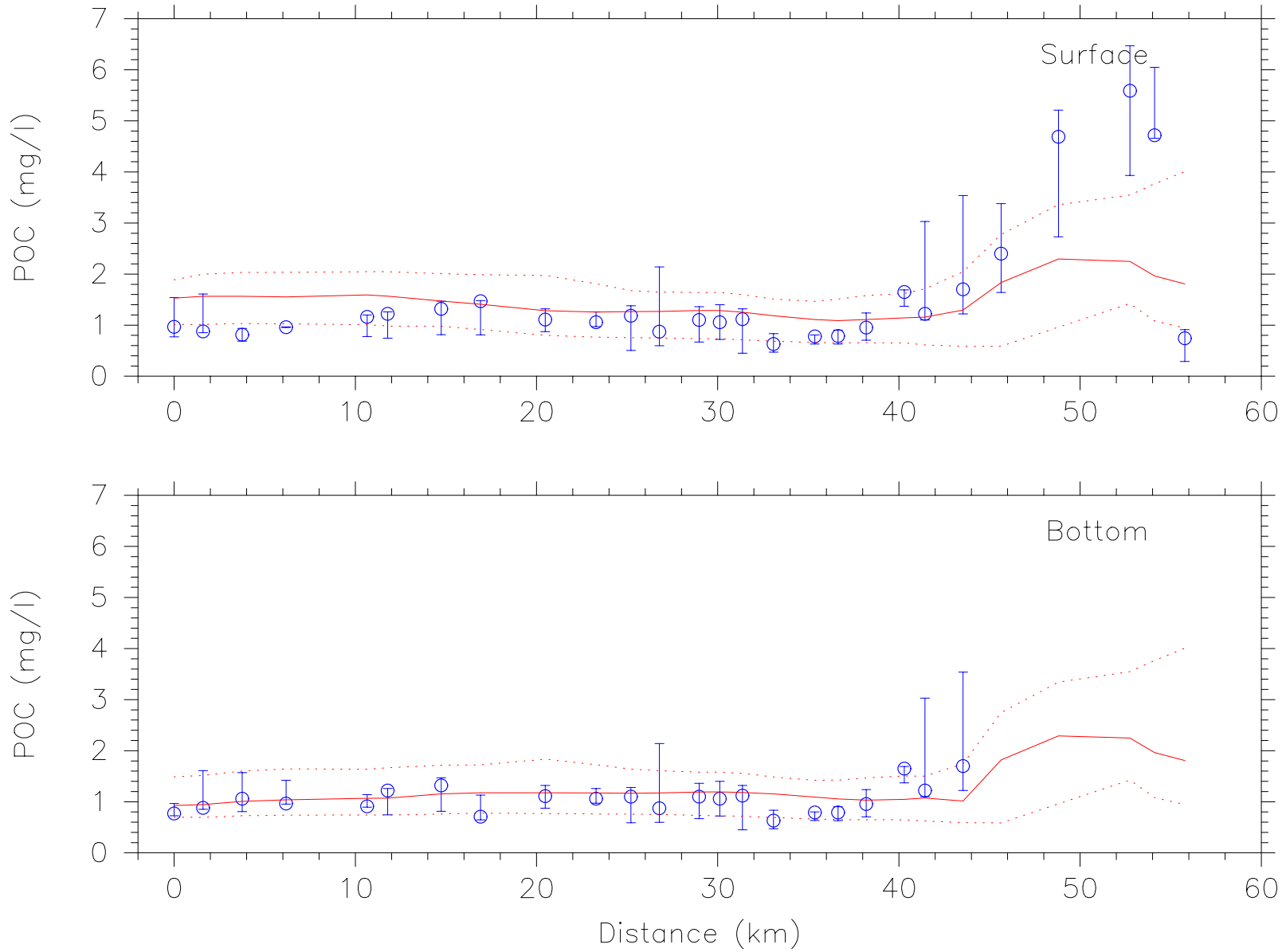
Ammonium, Chester River, Jun – Sep, 1999



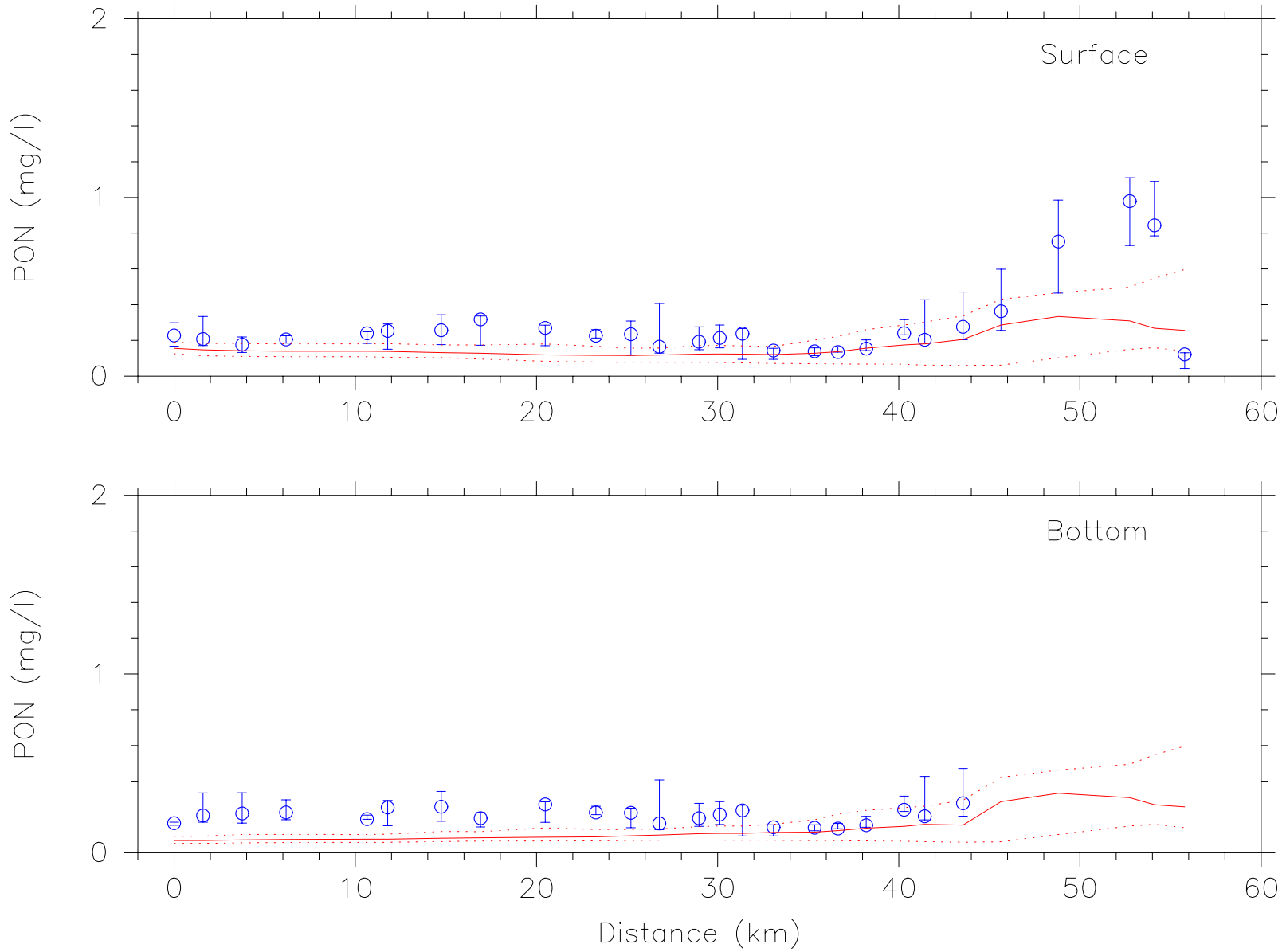
Nitrate, Chester River, Jun – Sep, 1999



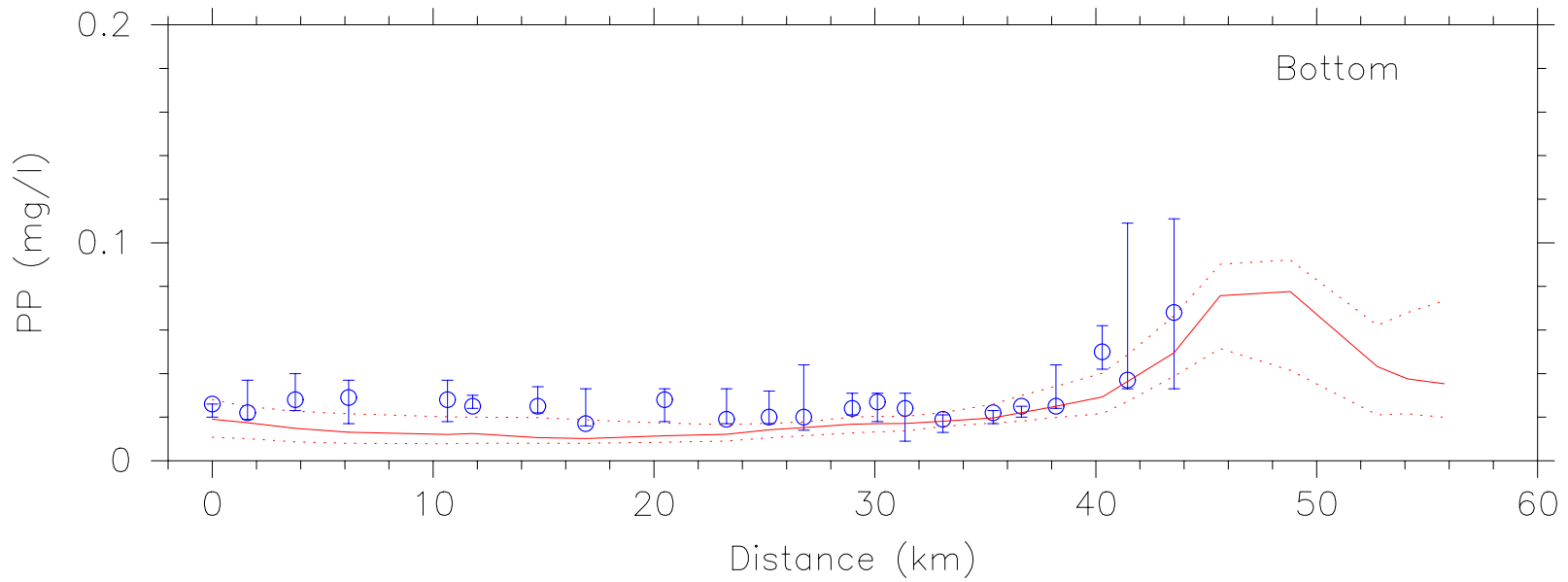
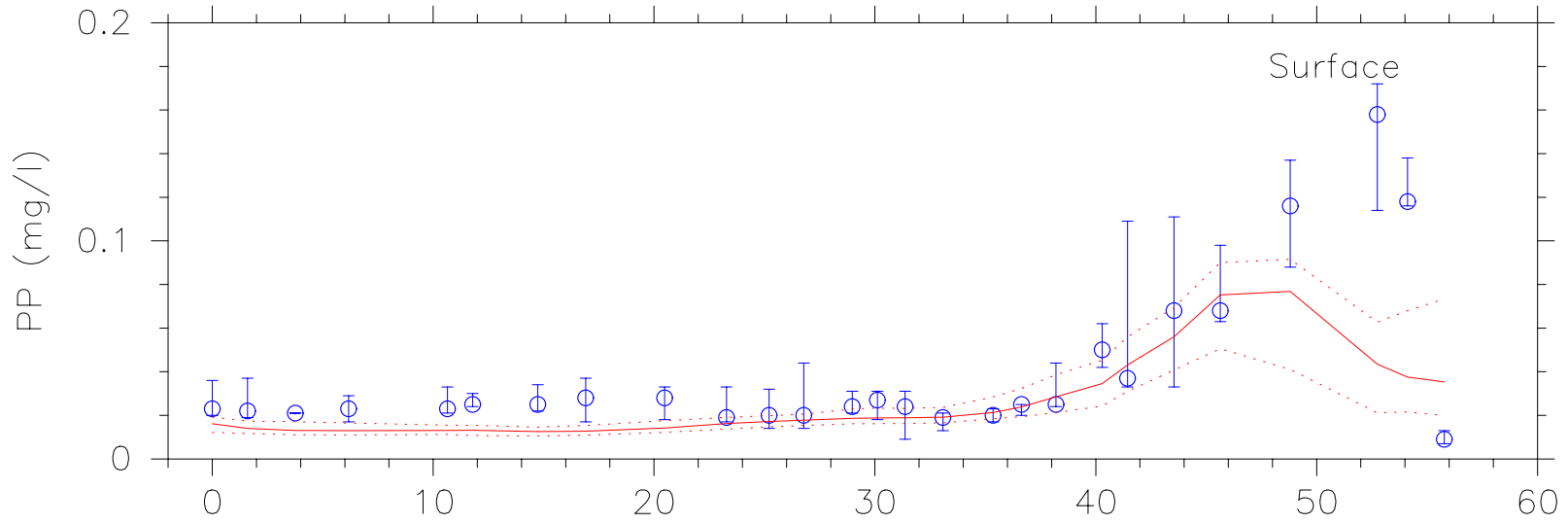
Particulate Organic Carbon, Chester River, Jun – Sep, 1999



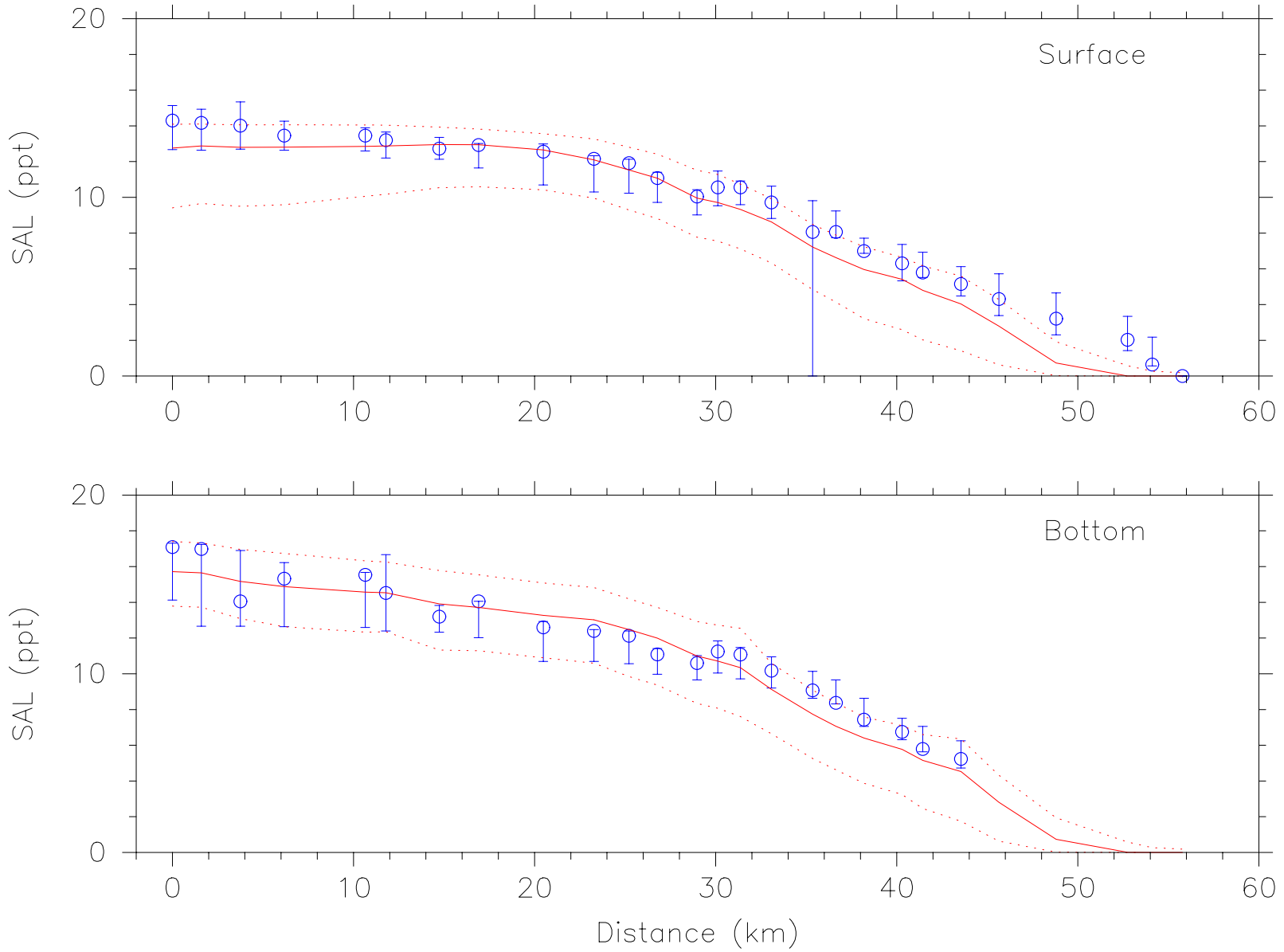
Particulate Organic Nitrogen, Chester River, Jun – Sep, 1999



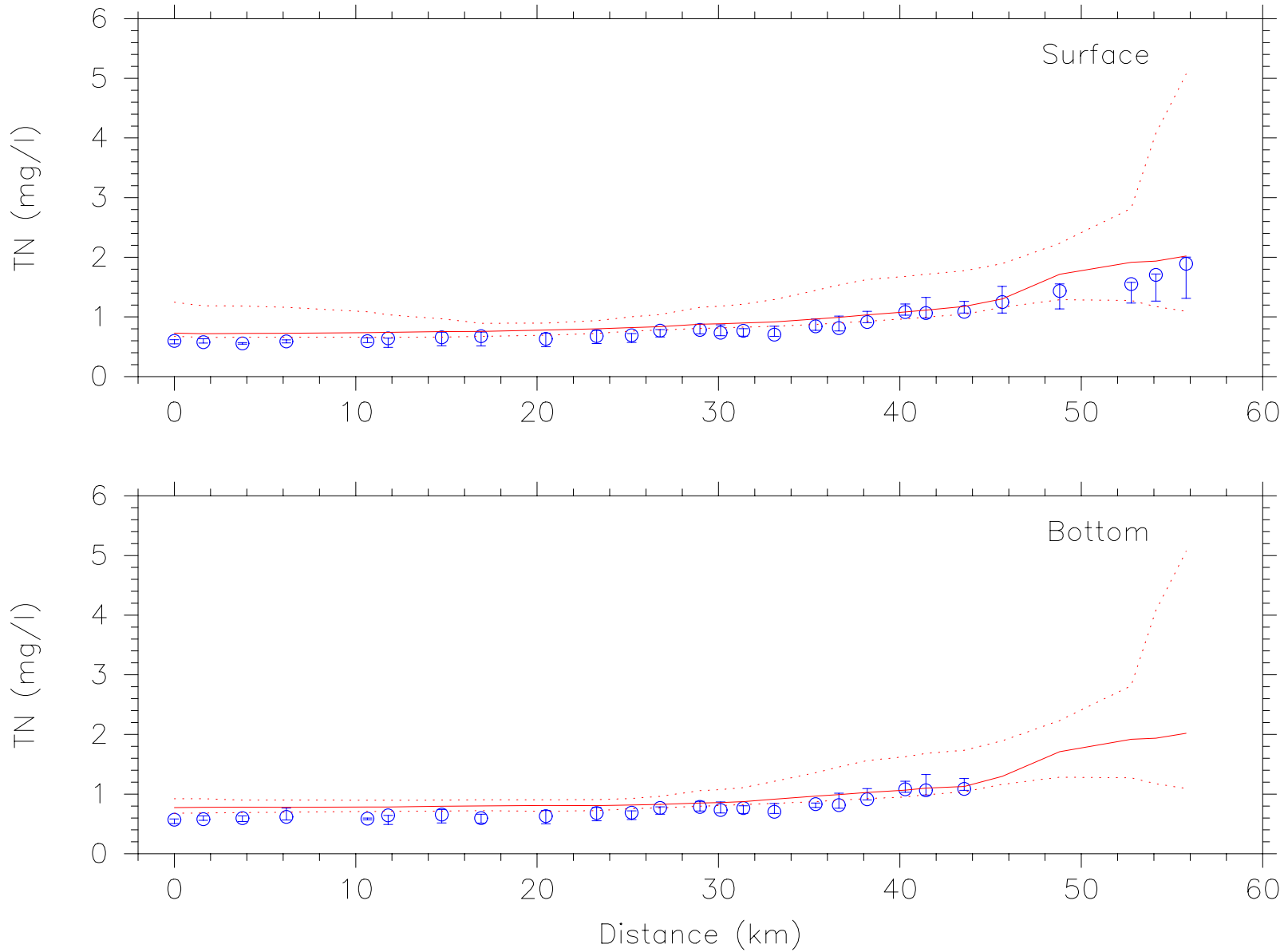
Particulate Phosphorus, Chester River, Jun – Sep, 1999



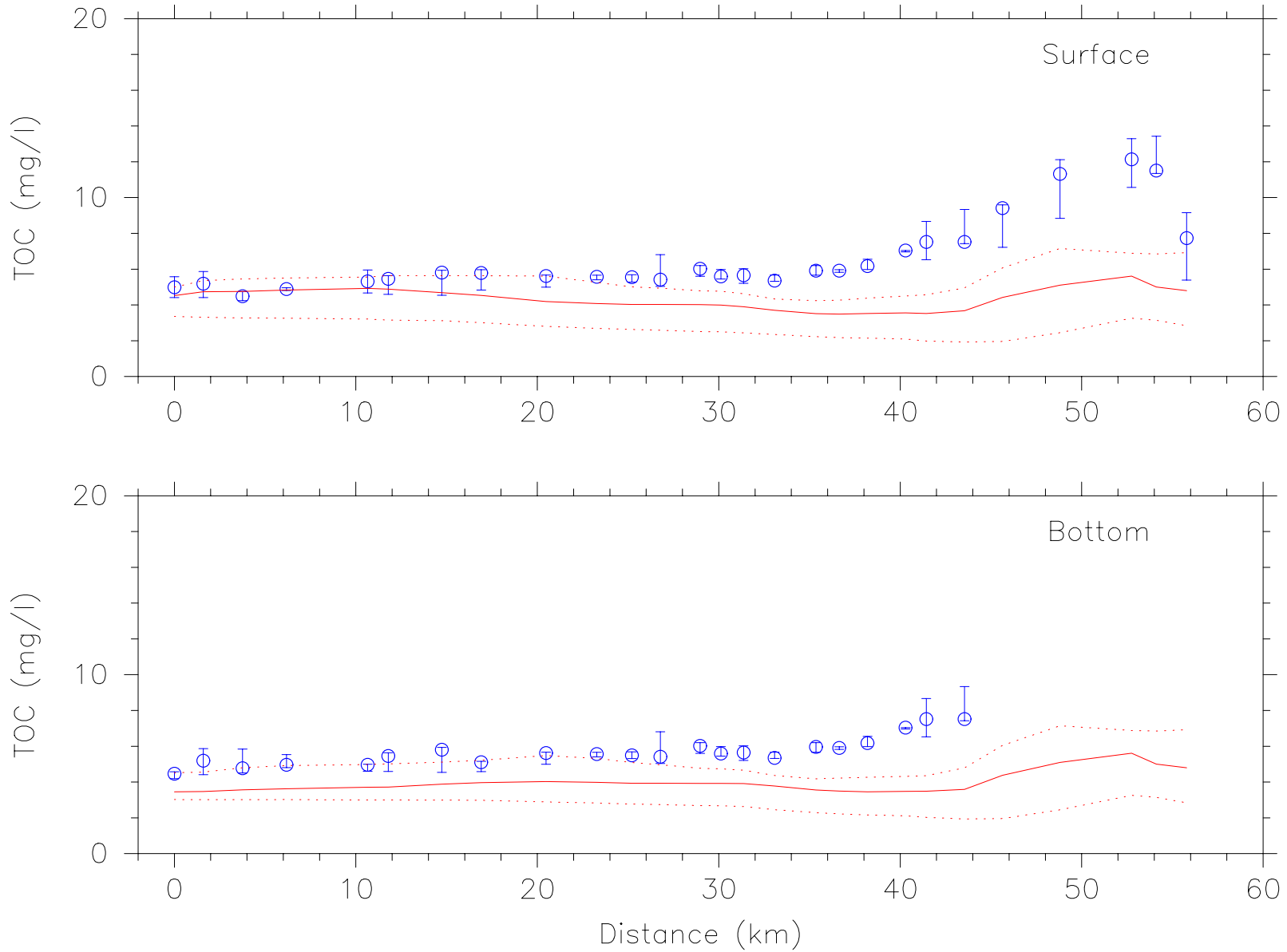
Salinity, Chester River, Jun – Sep, 1999



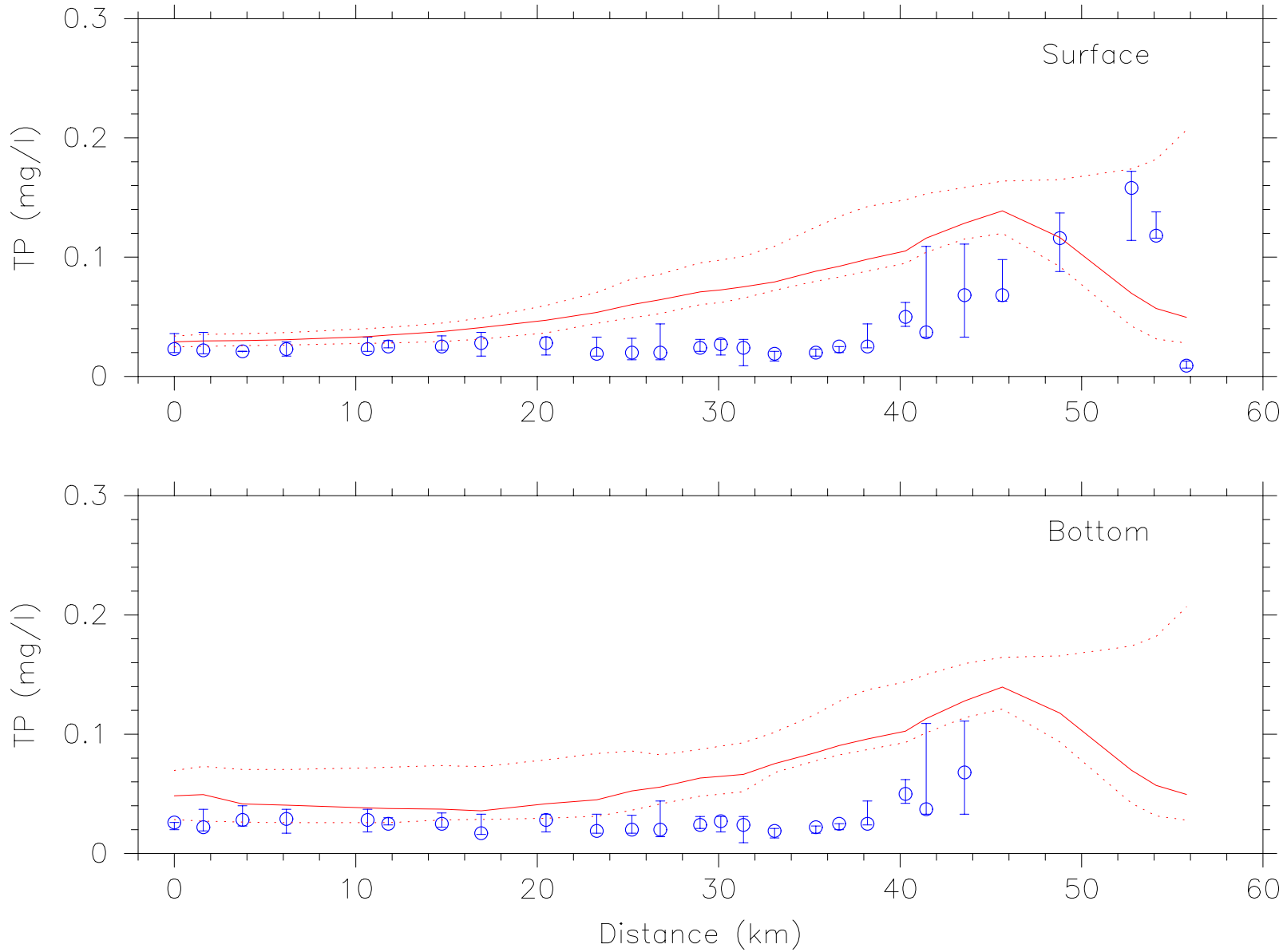
Total Nitrogen, Chester River, Jun – Sep, 1999



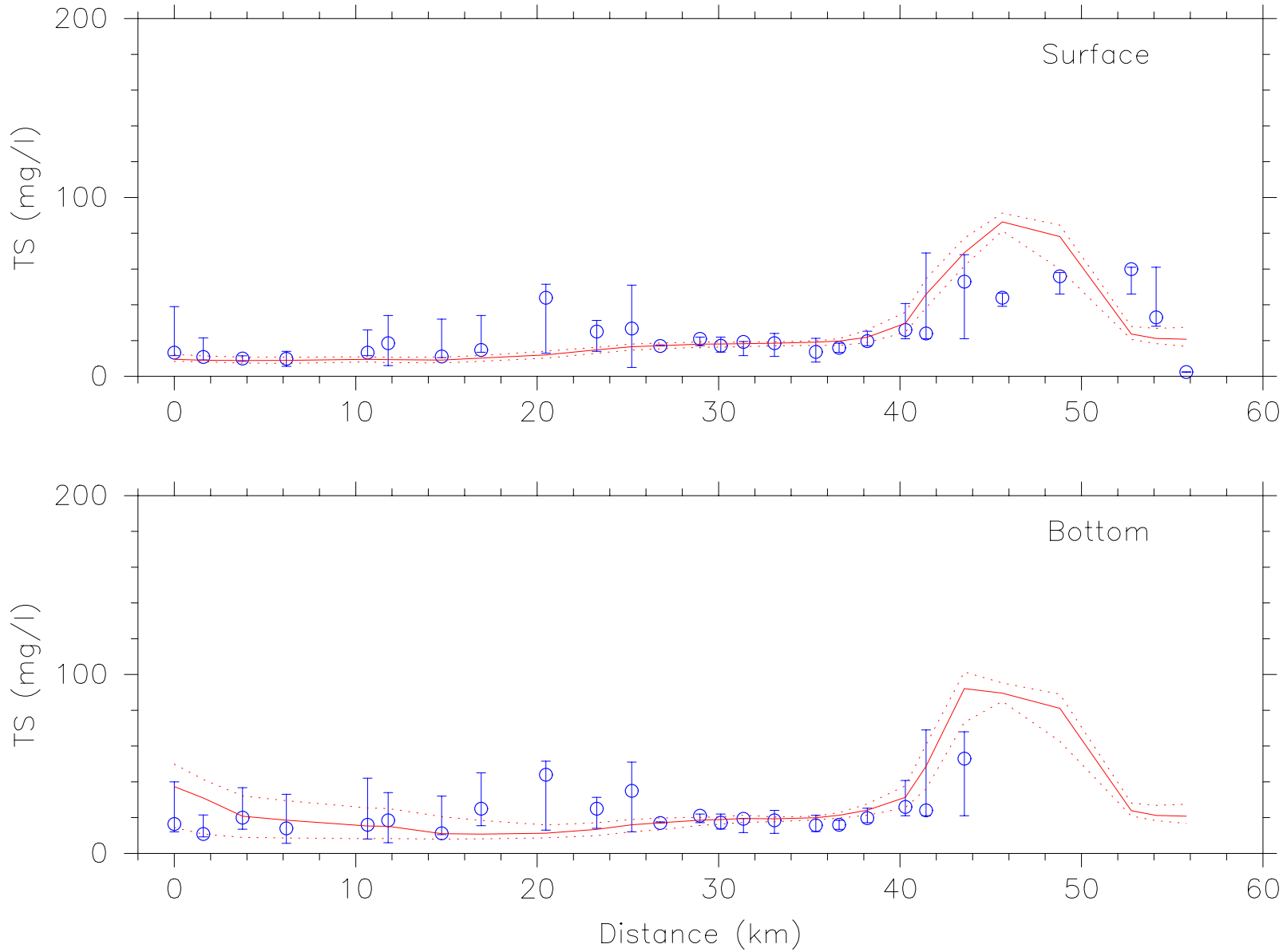
Total Organic Carbon, Chester River, Jun – Sep, 1999



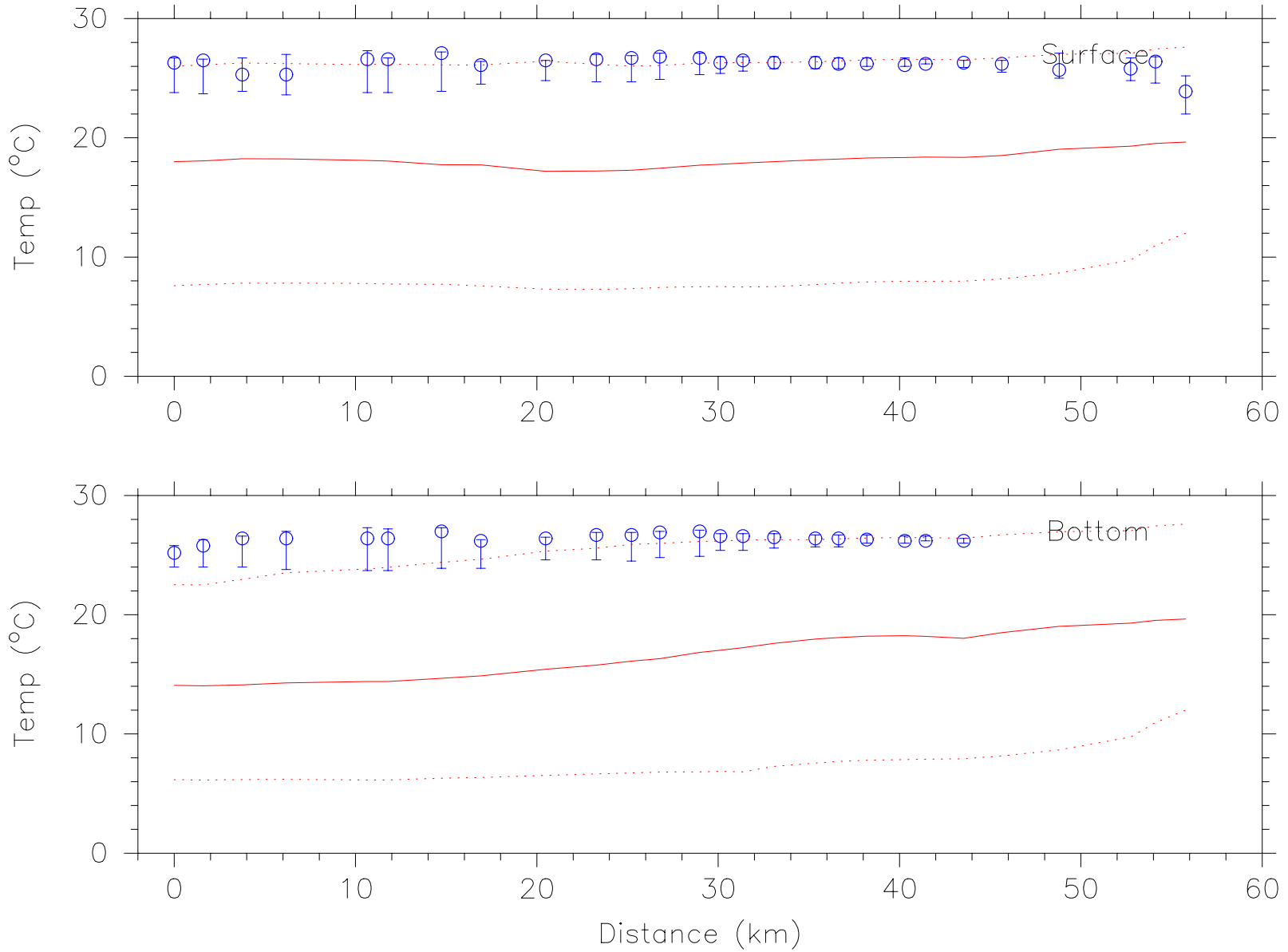
Total Phosphorus, Chester River, Jun – Sep, 1999



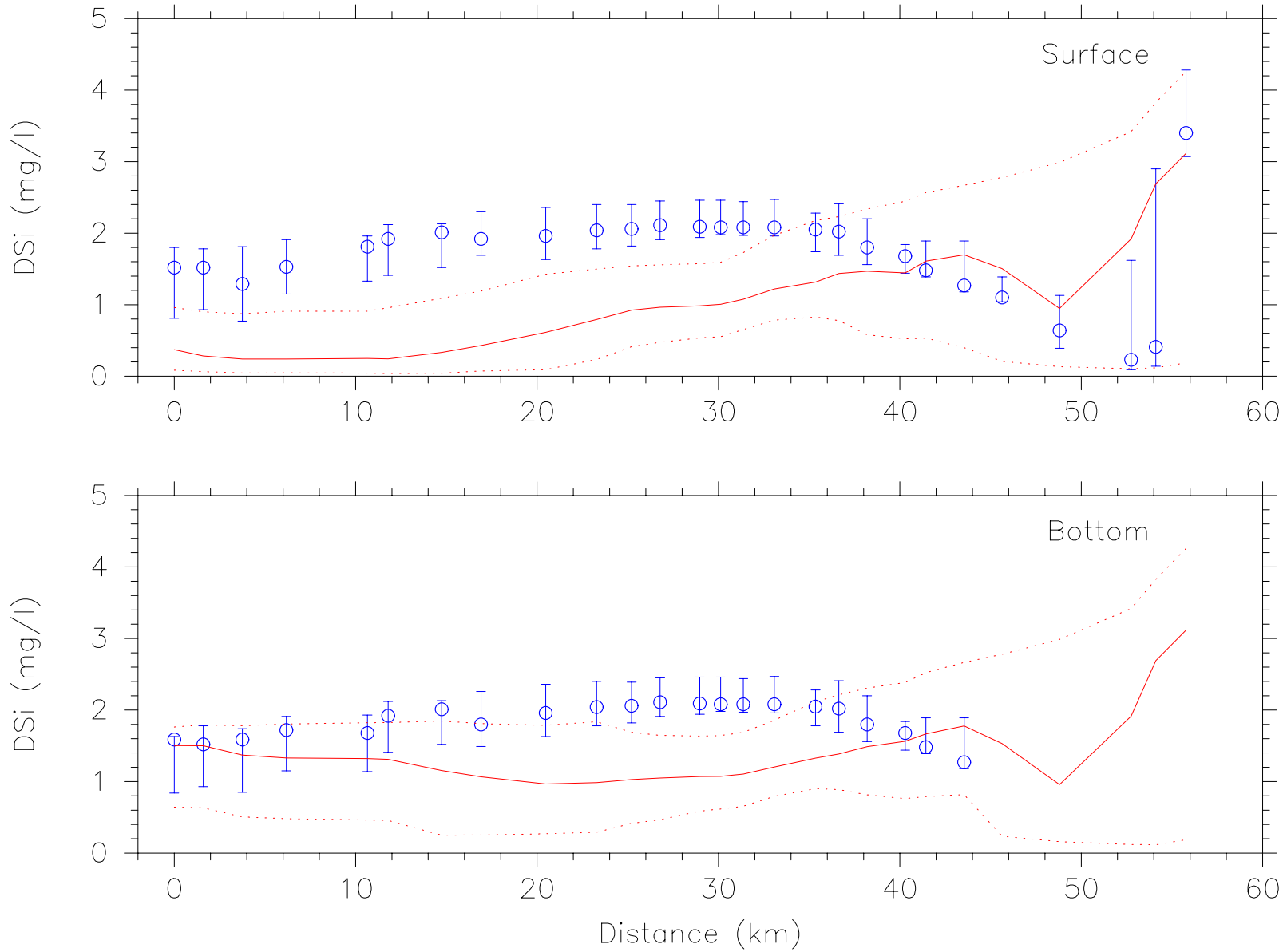
Total Solids, Chester River, Jun – Sep, 1999



Temperature, Chester River, Jun – Sep, 1999



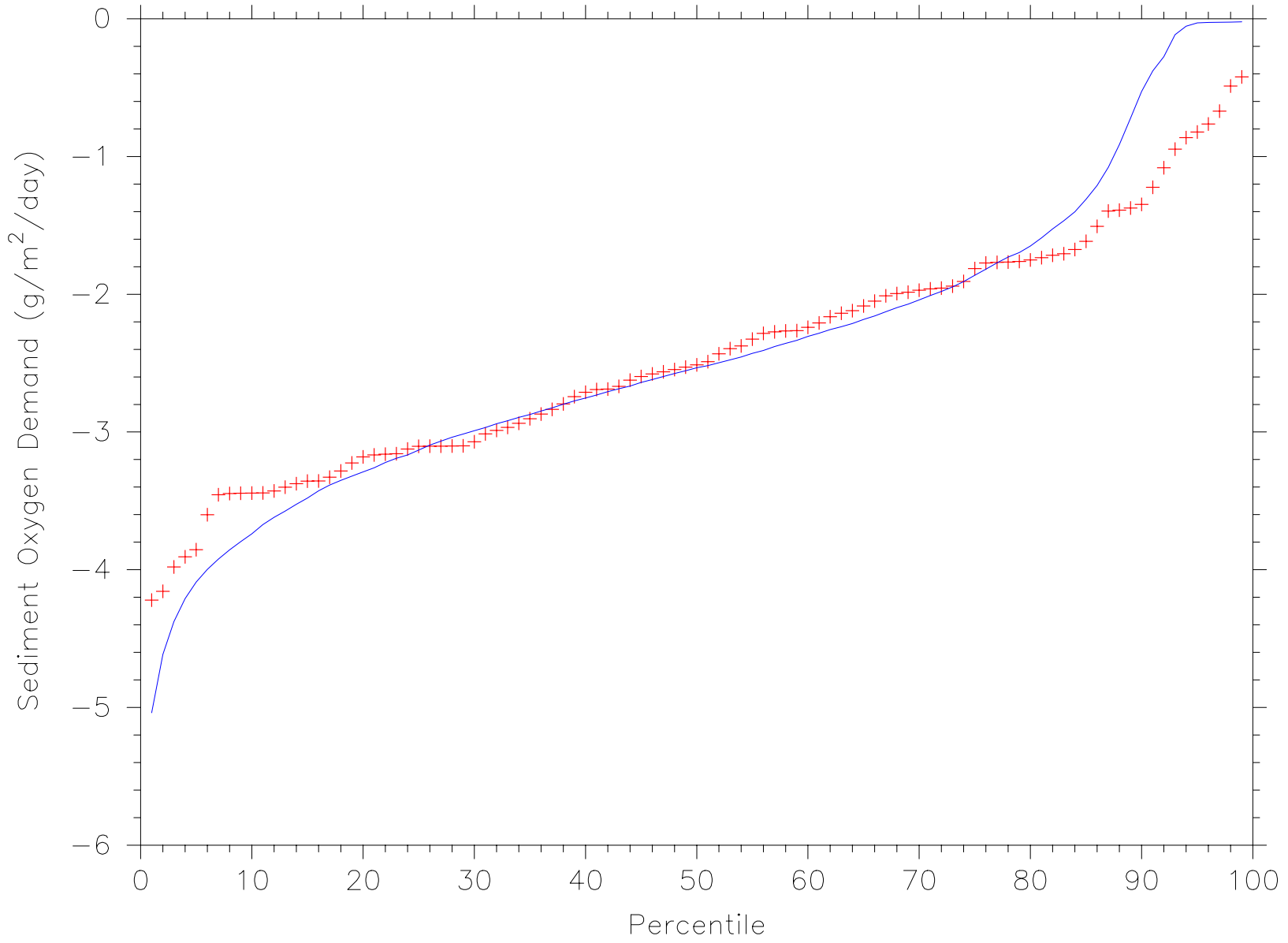
Dissolved Silica, Chester River, Jun – Sep, 1999



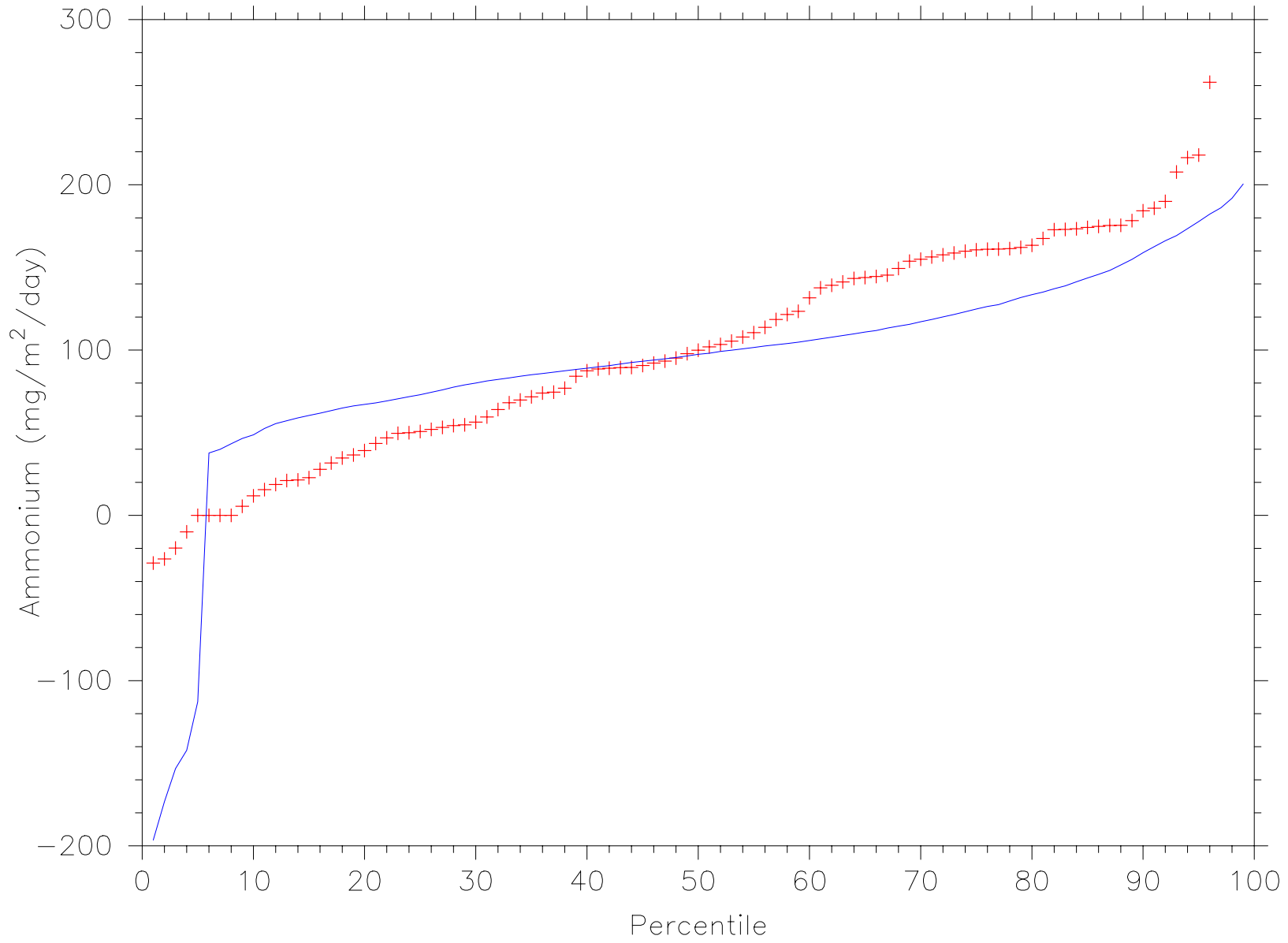
Appendix 5-G

This appendix compares time series plots of observed and computed sediment oxygen and nutrient exchange. Data from 2000 is grouped by month and compared to model results from 1997-1999.

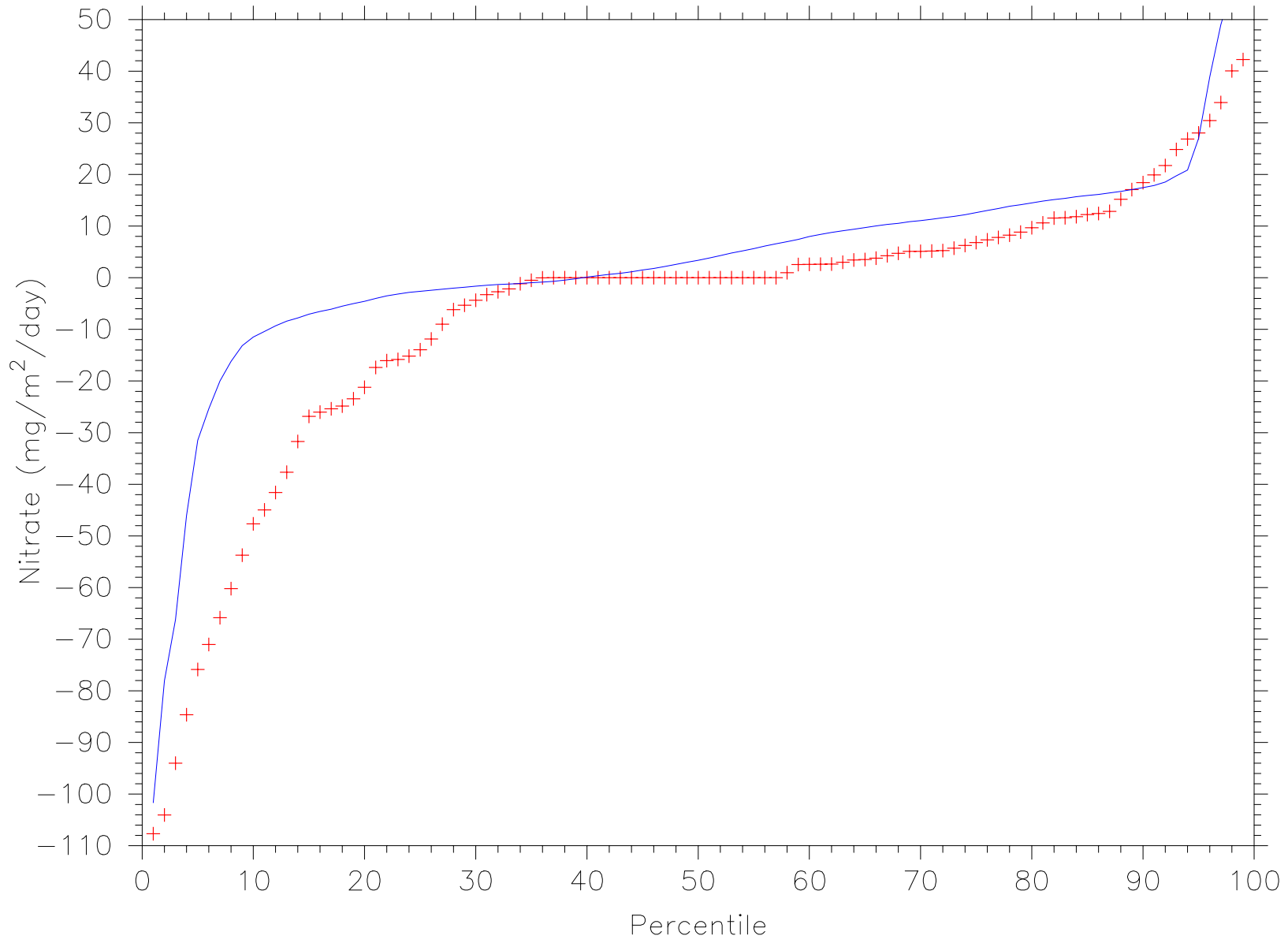
Sediment Oxygen Demand



Ammonium



Nitrate



Dissolved Inorganic Phosphorous

