

Tidal Trends in Water Quality:

APPENDIX

Maryland Mainstem 2018 Tributary Summary

April 15, 2021

Contents

1. Bottom Total Nitrogen	A3
2. Bottom Total Phosphorus	A5
3. Surface Dissolved Inorganic Nitrogen (DIN).....	A7
4. Surface Orthophosphate (PO ₄).....	A9
5. Surface Total Suspended Solids (TSS)	A11
6. Summer Surface Dissolved Oxygen (DO)	A13
7. Surface Water Temperature	A15

1. Bottom Total Nitrogen

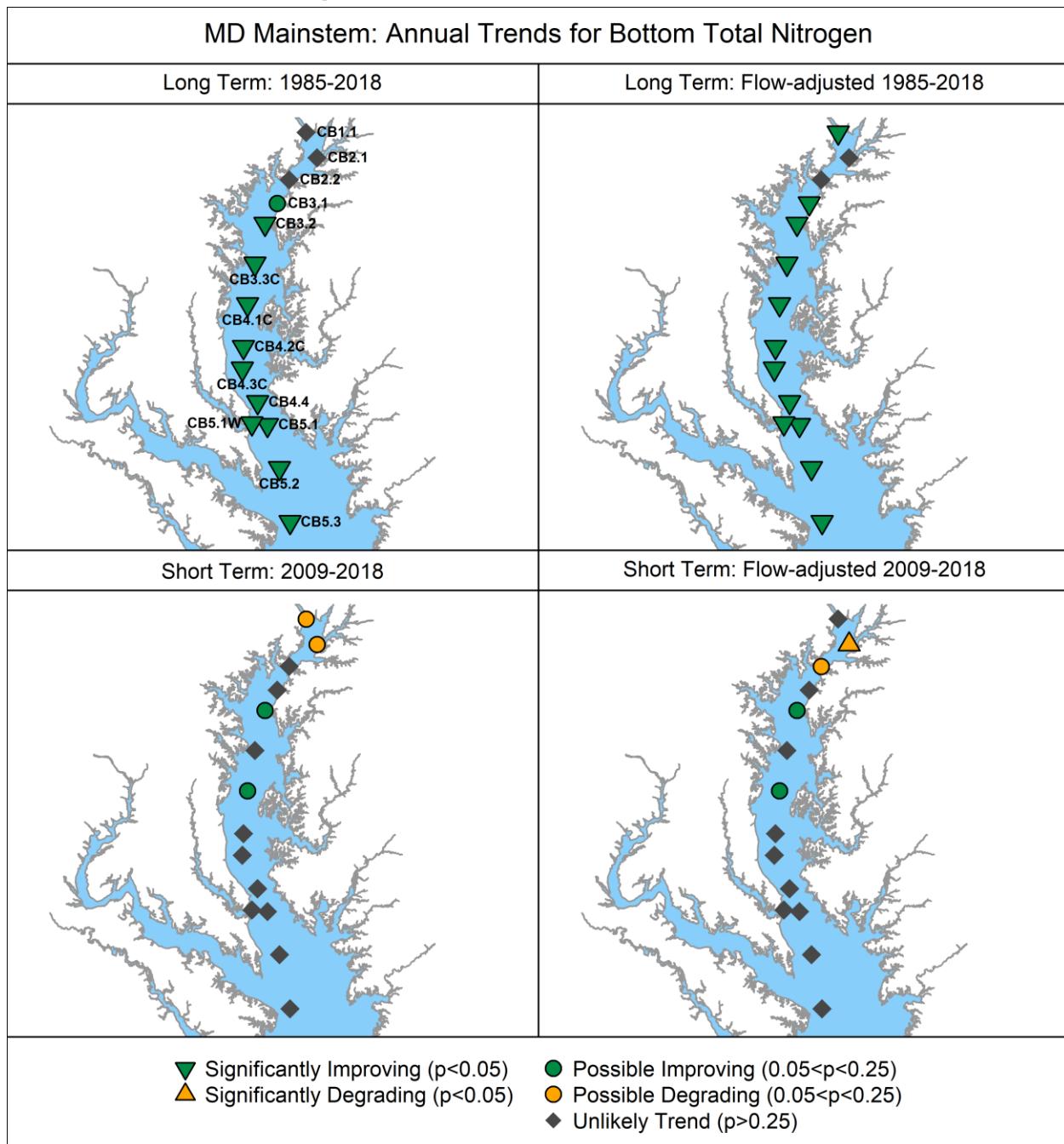


Figure A-1. Bottom total nitrogen trends.

Annual Bottom Total Nitrogen Data and Average Predictions

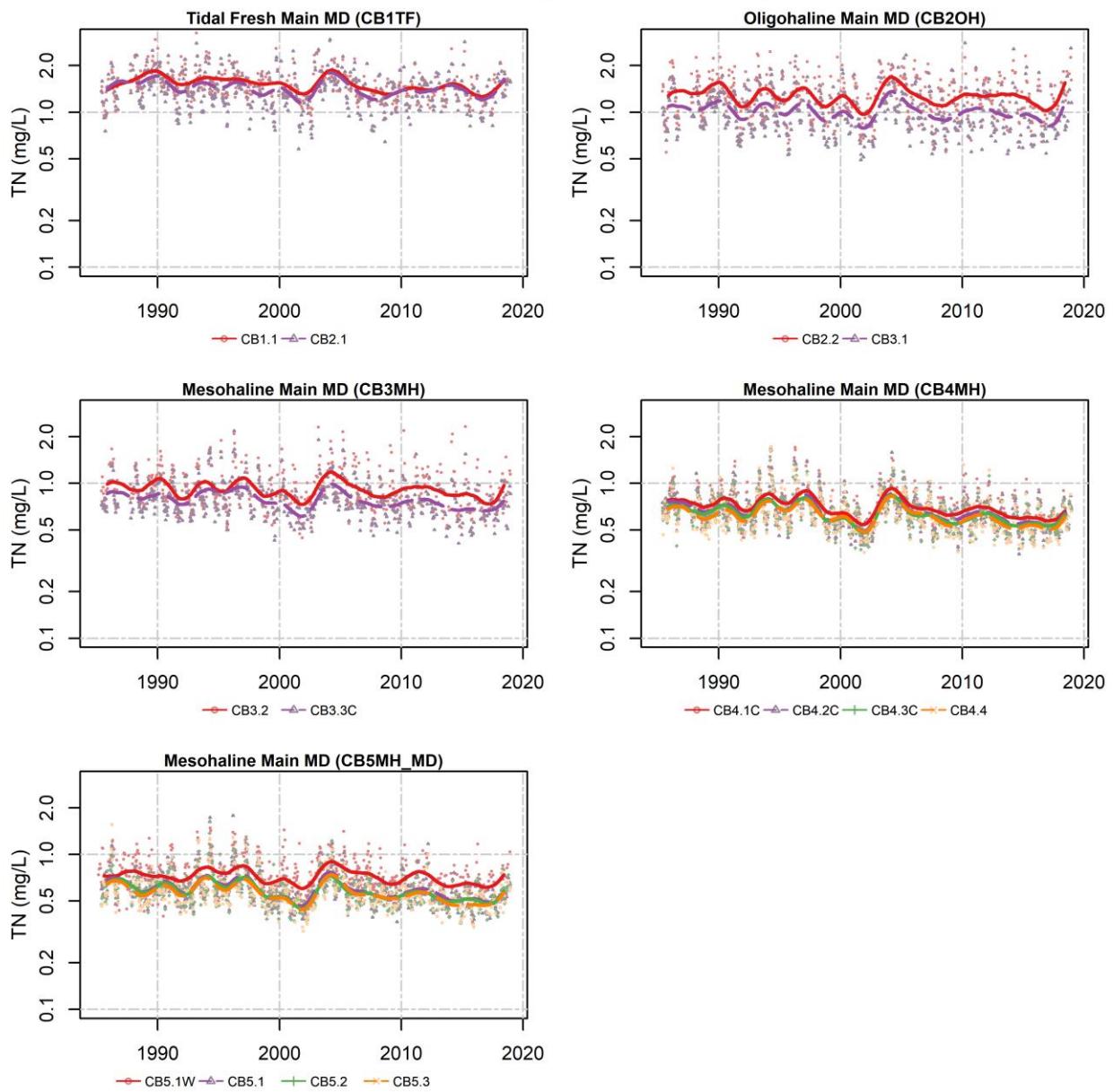


Figure A-2. Bottom total nitrogen data (dots) and average long-term pattern generated from non-flow adjusted GAMs.

2. Bottom Total Phosphorus

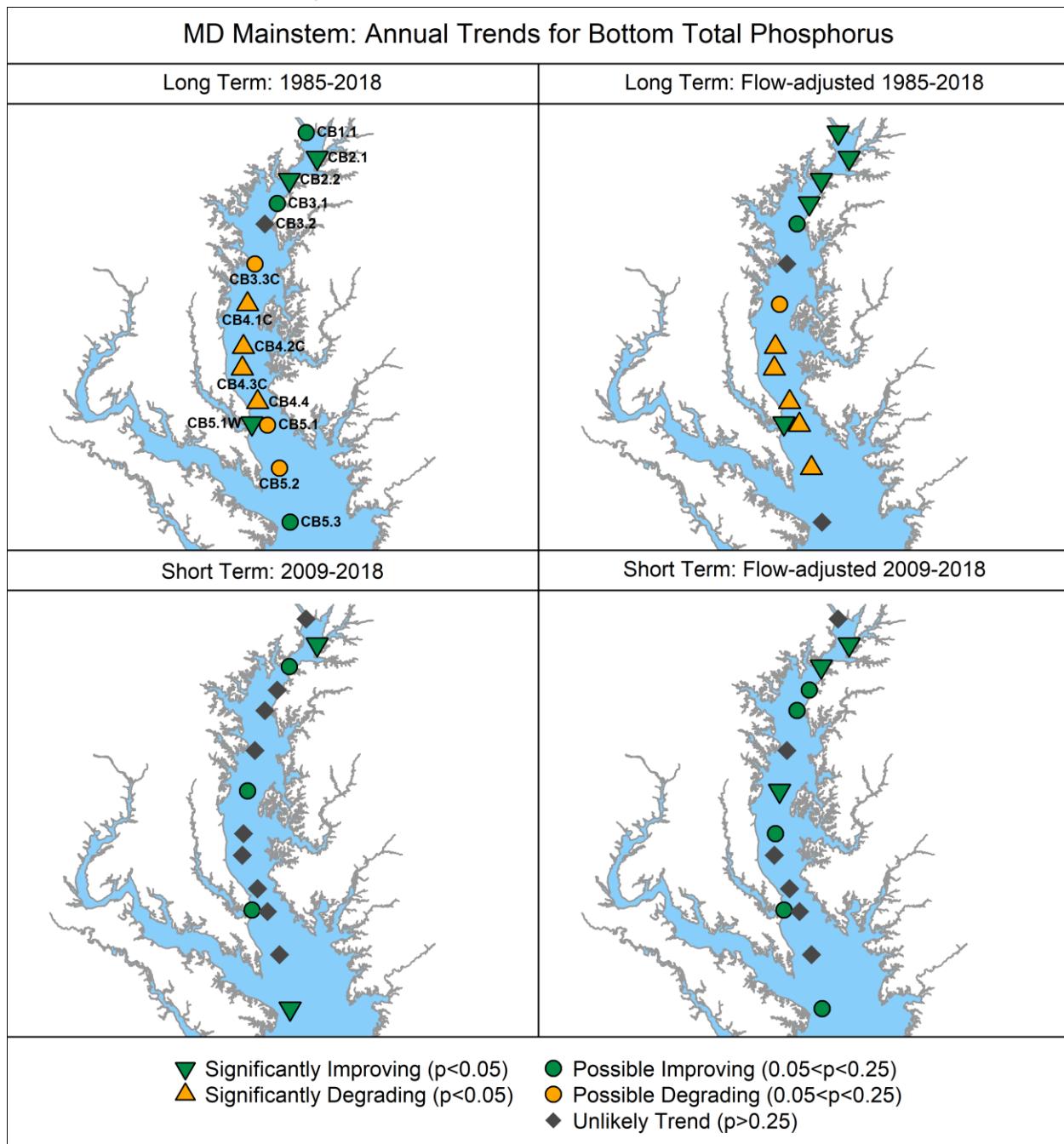


Figure A-3. Bottom total phosphorus trends.

Annual Bottom Total Phosphorus Data and Average Predictions

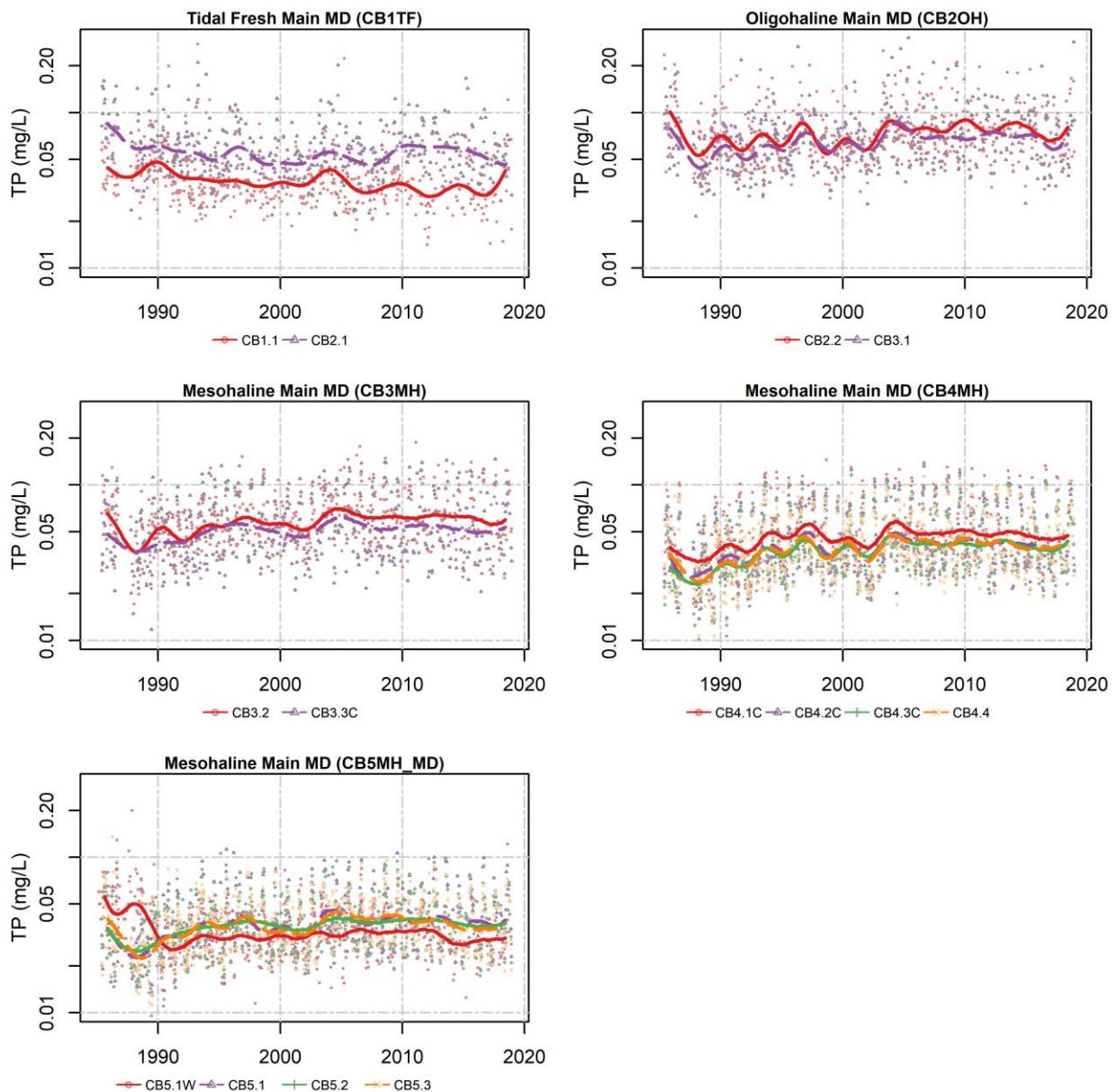


Figure A-4. Bottom total phosphorus data (dots) and average long-term pattern generated from non-flow adjusted GAMs.

3. Surface Dissolved Inorganic Nitrogen (DIN)

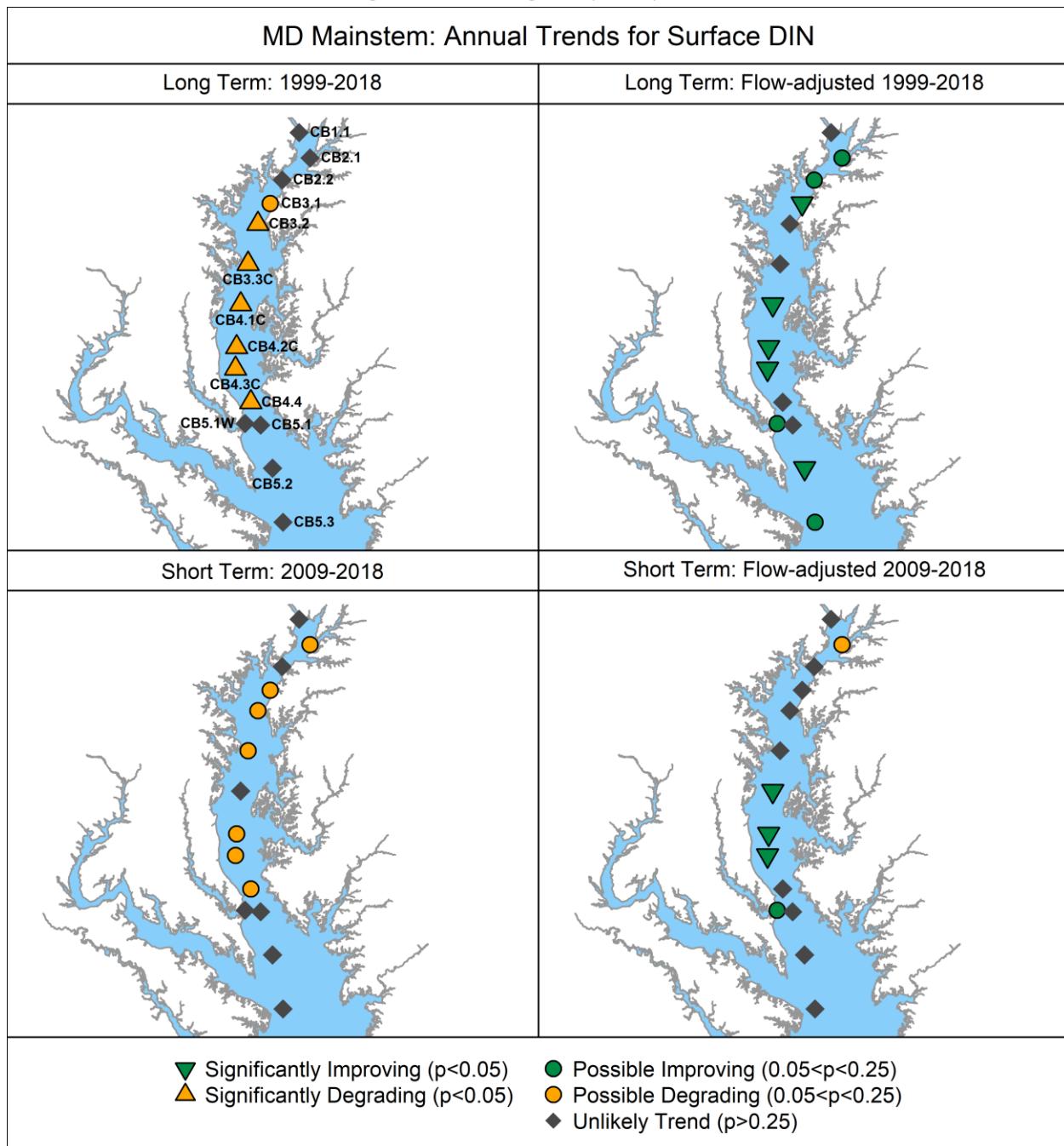


Figure A-5. Surface DIN trends.

Annual Surface Dissolved Inorganic Nitrogen Data and Average Predictions

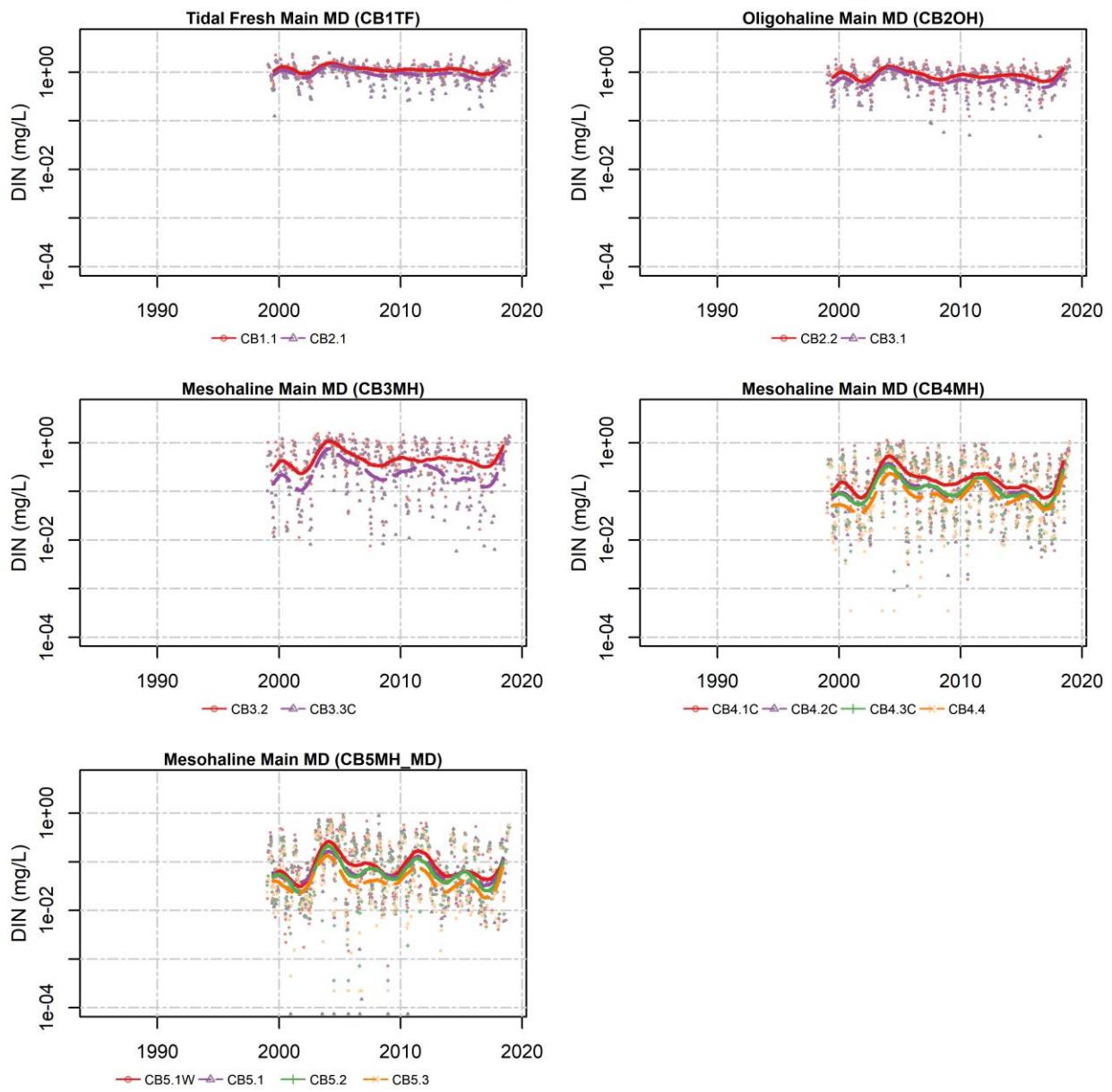


Figure A-6. Surface DIN data (dots) and average long-term pattern generated from non-flow adjusted GAMs.

4. Surface Orthophosphate (PO₄)

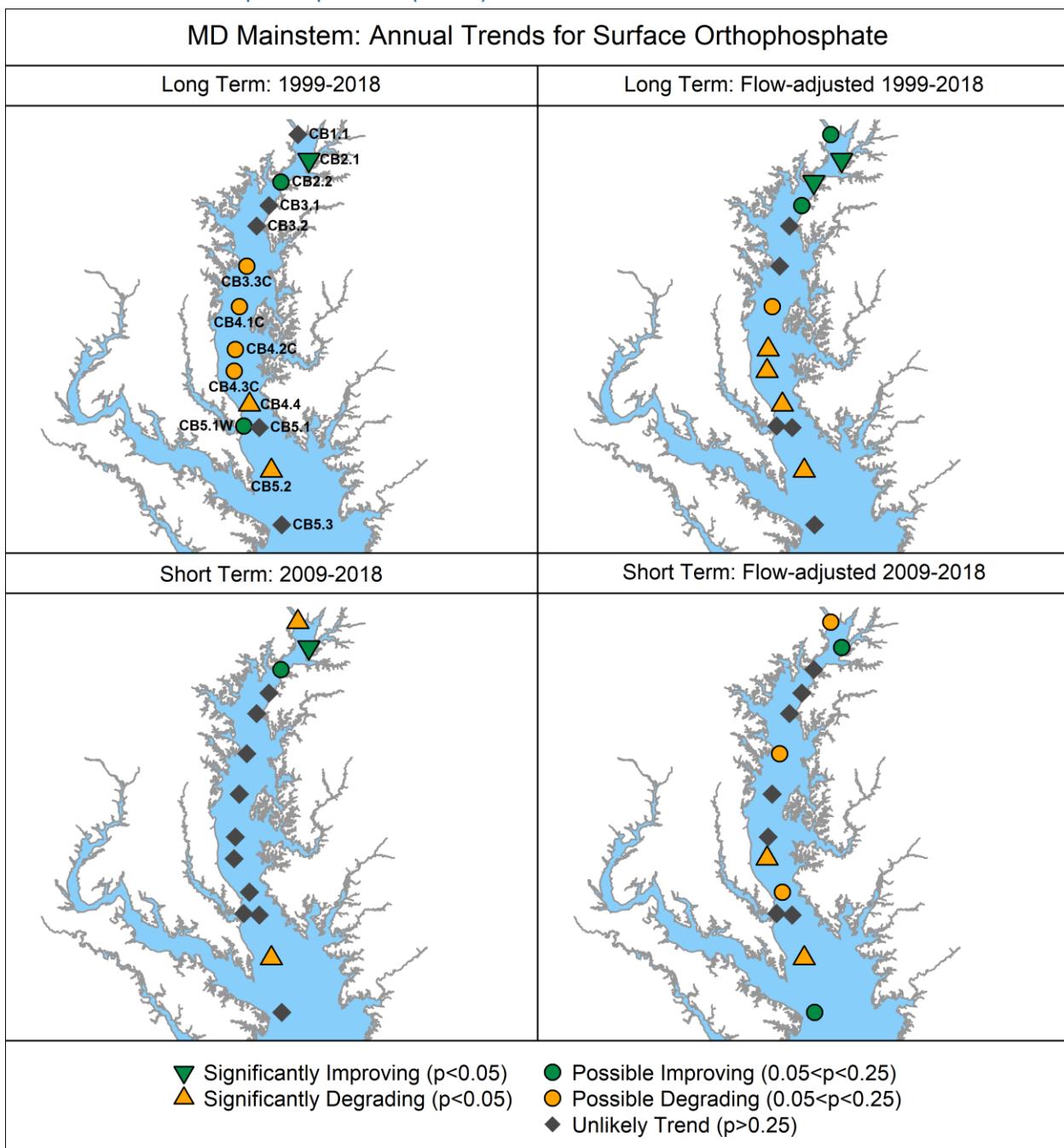


Figure A-7. Surface orthophosphate trends.

Annual Surface Orthophosphate Data and Average Predictions

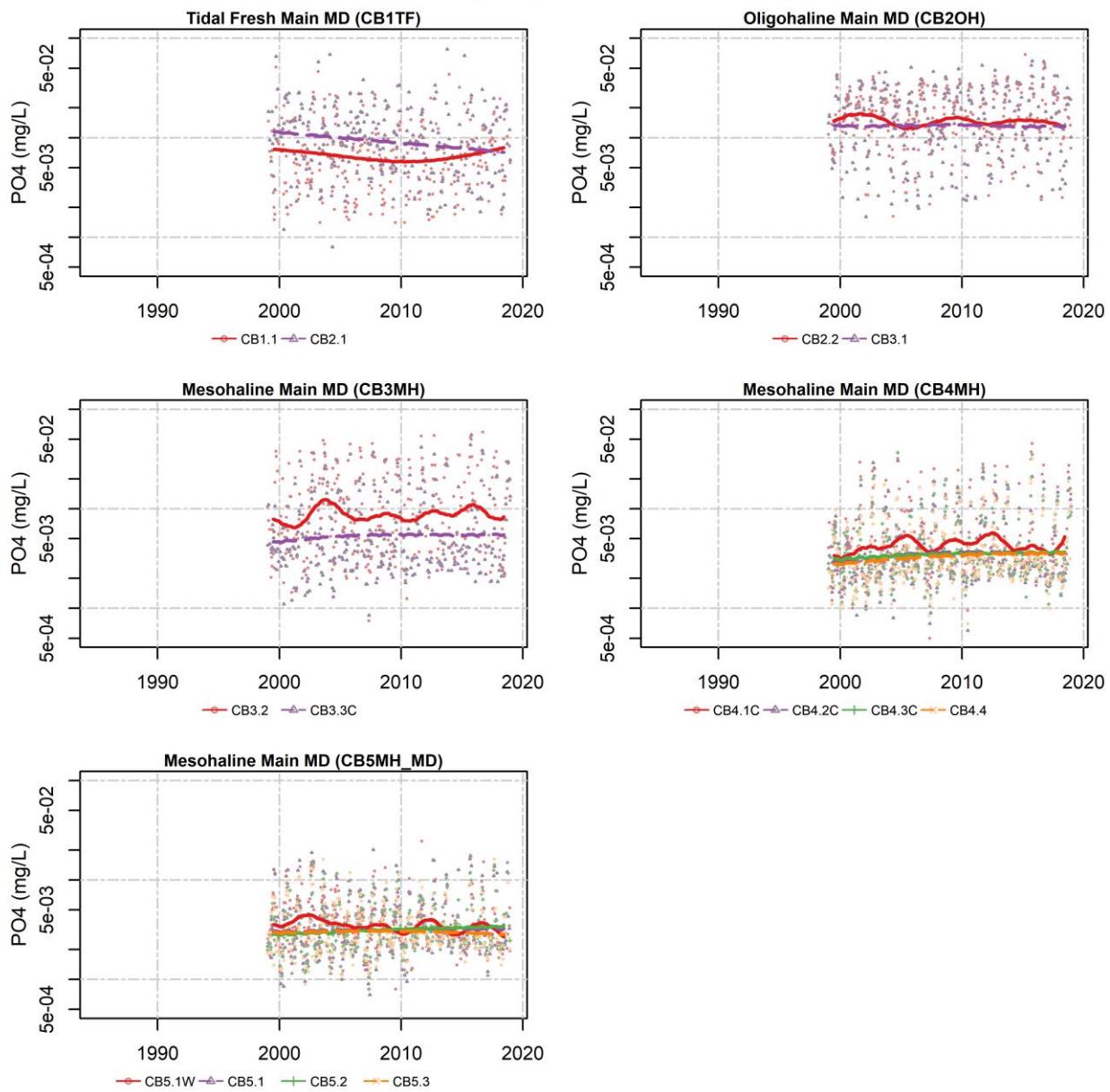


Figure A-8. Surface orthophosphate data (dots) and average long-term pattern generated from non-flow adjusted GAMs.

5. Surface Total Suspended Solids (TSS)

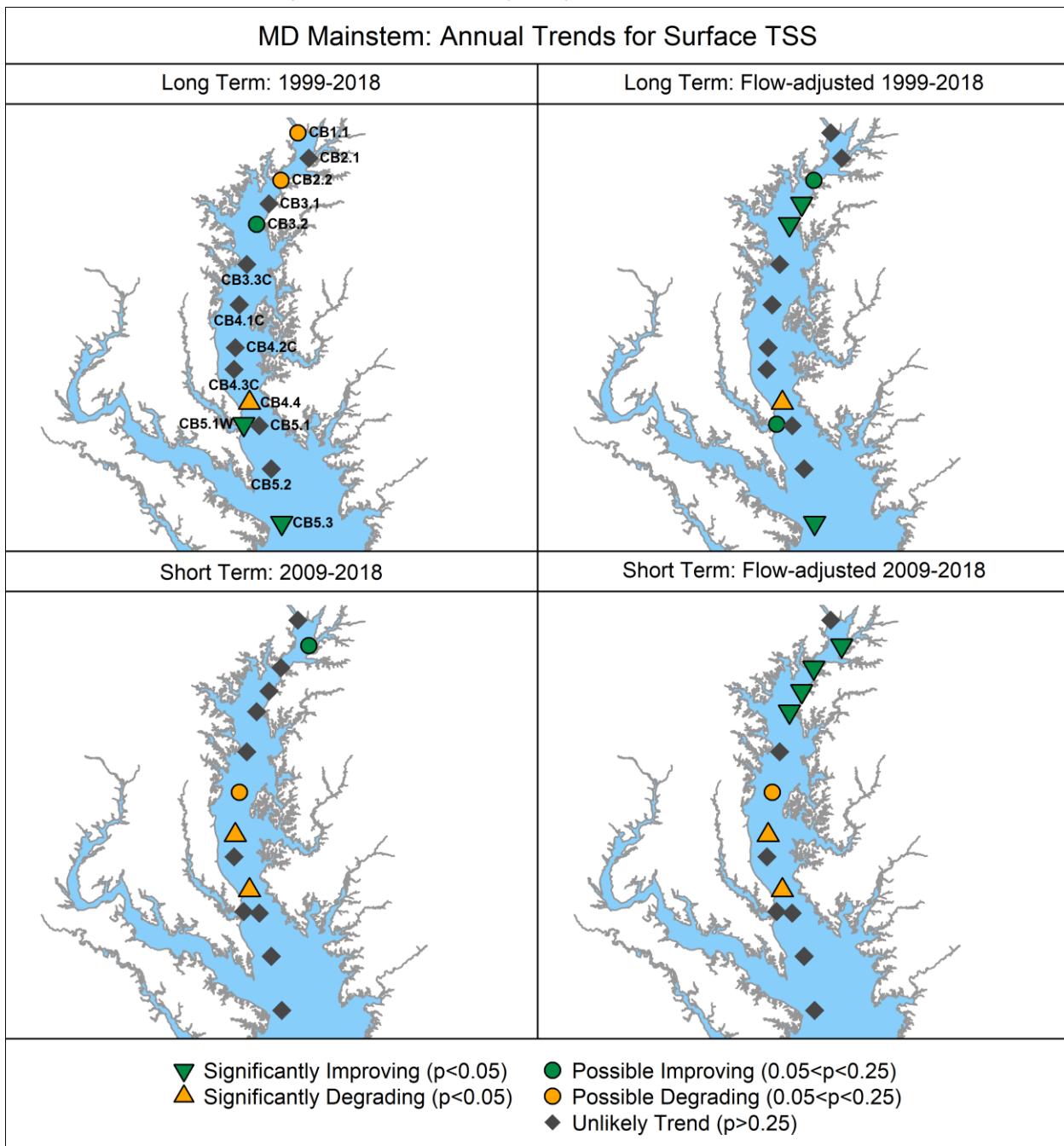


Figure A-9. Surface TSS trends.

Annual Surface Total Suspended Solids Data and Average Predictions

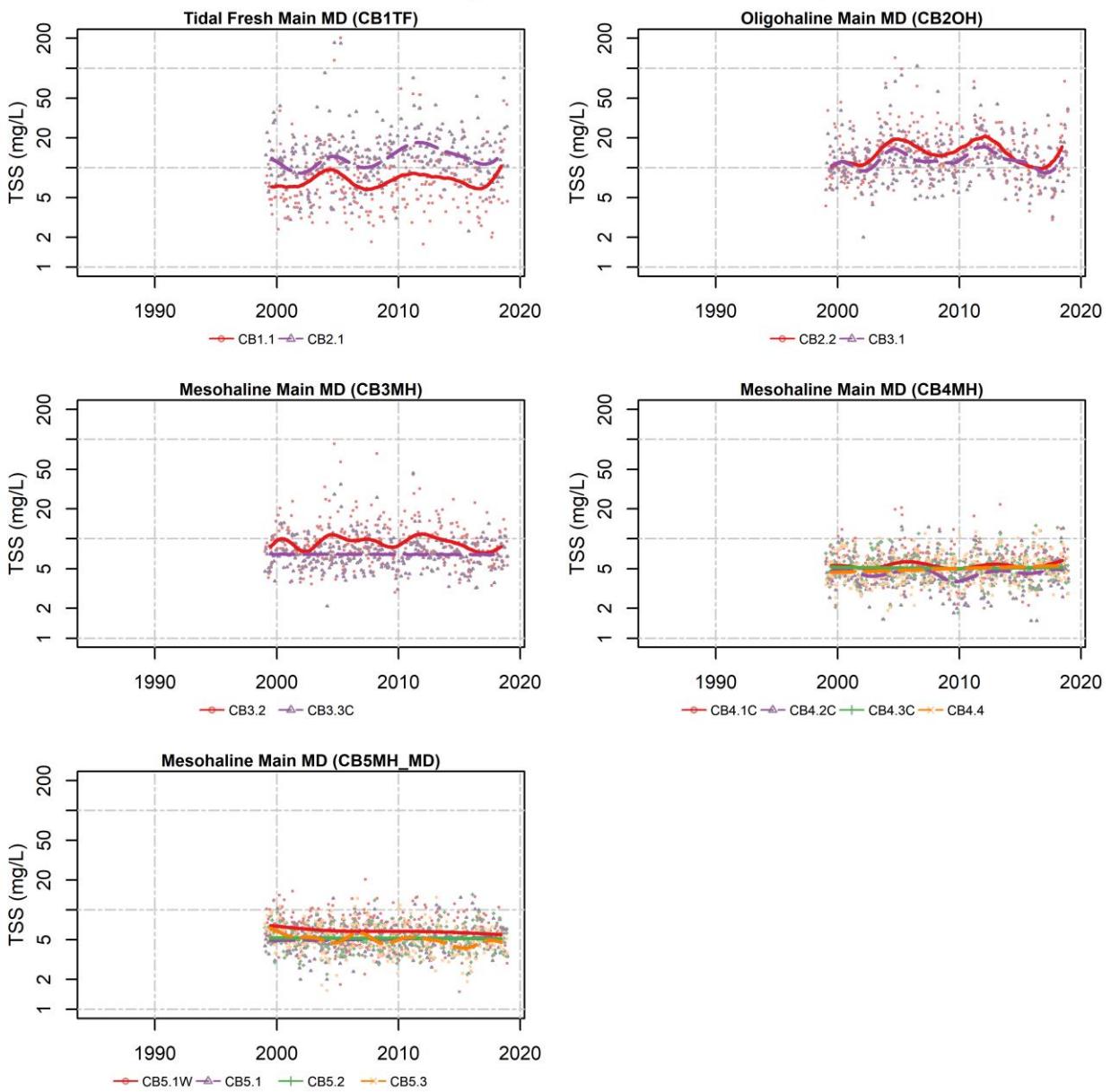


Figure A-10. Surface TSS data (dots) and average long-term pattern generated from non-flow adjusted GAMs.

6. Summer Surface Dissolved Oxygen (DO)

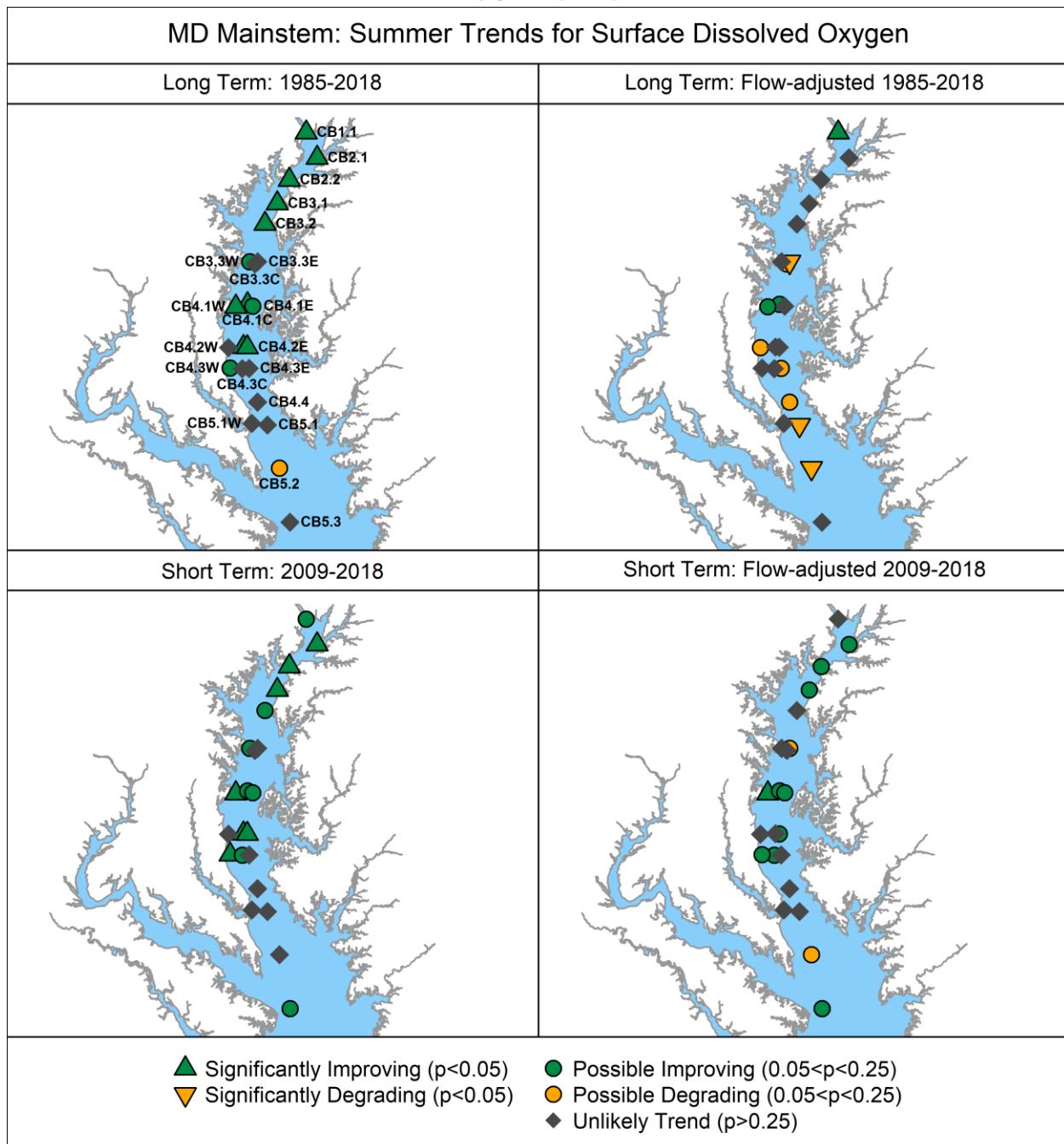


Figure A-11. Summer (June-Sept) surface layer DO trends.

Summer (June-Sept) Surface DO Data and Average Predictions

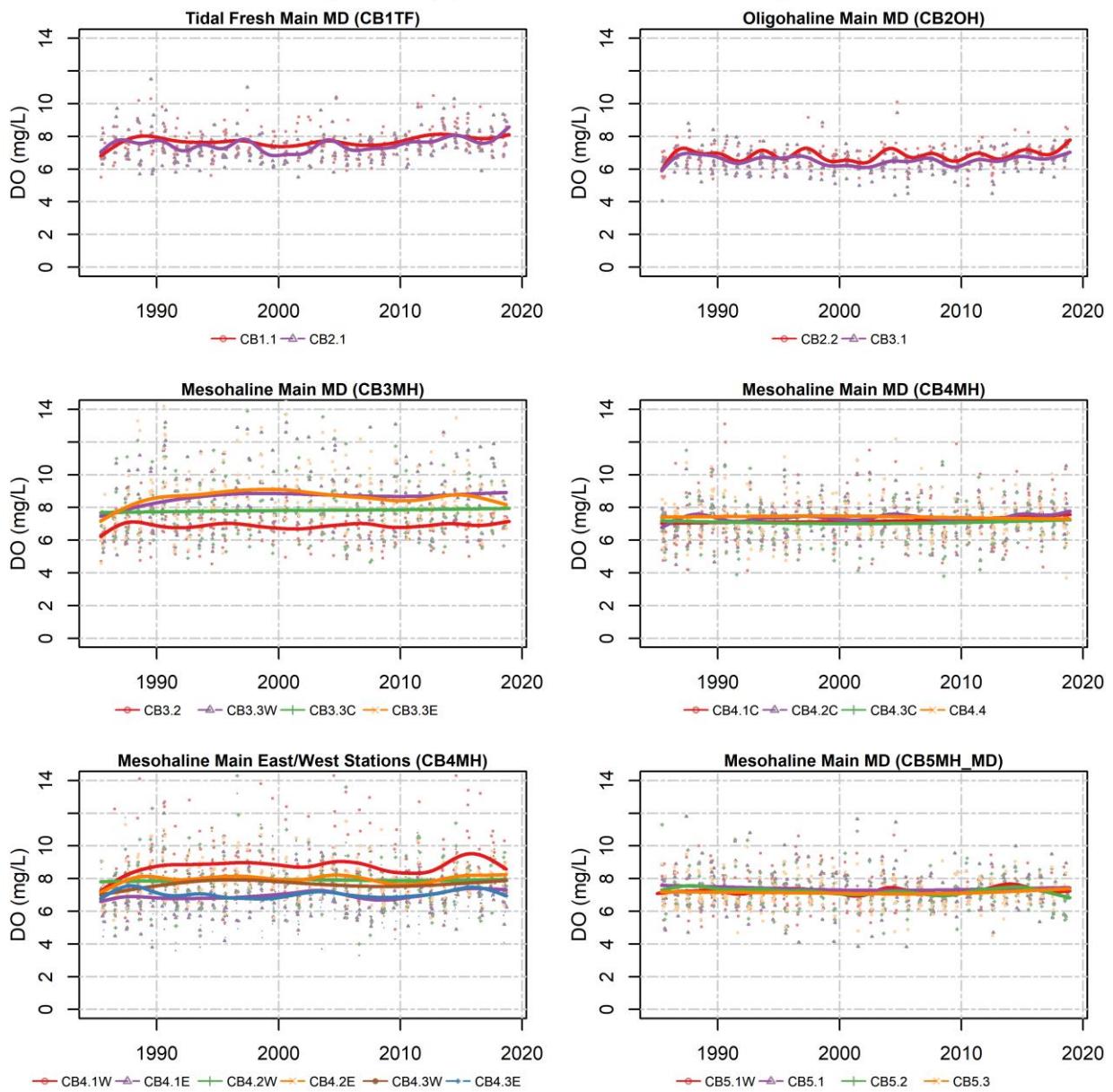


Figure A-12. Summer (June-Sept) surface DO data (dots) and summer mean long-term pattern generated from non-flow adjusted GAMs.

7. Surface Water Temperature

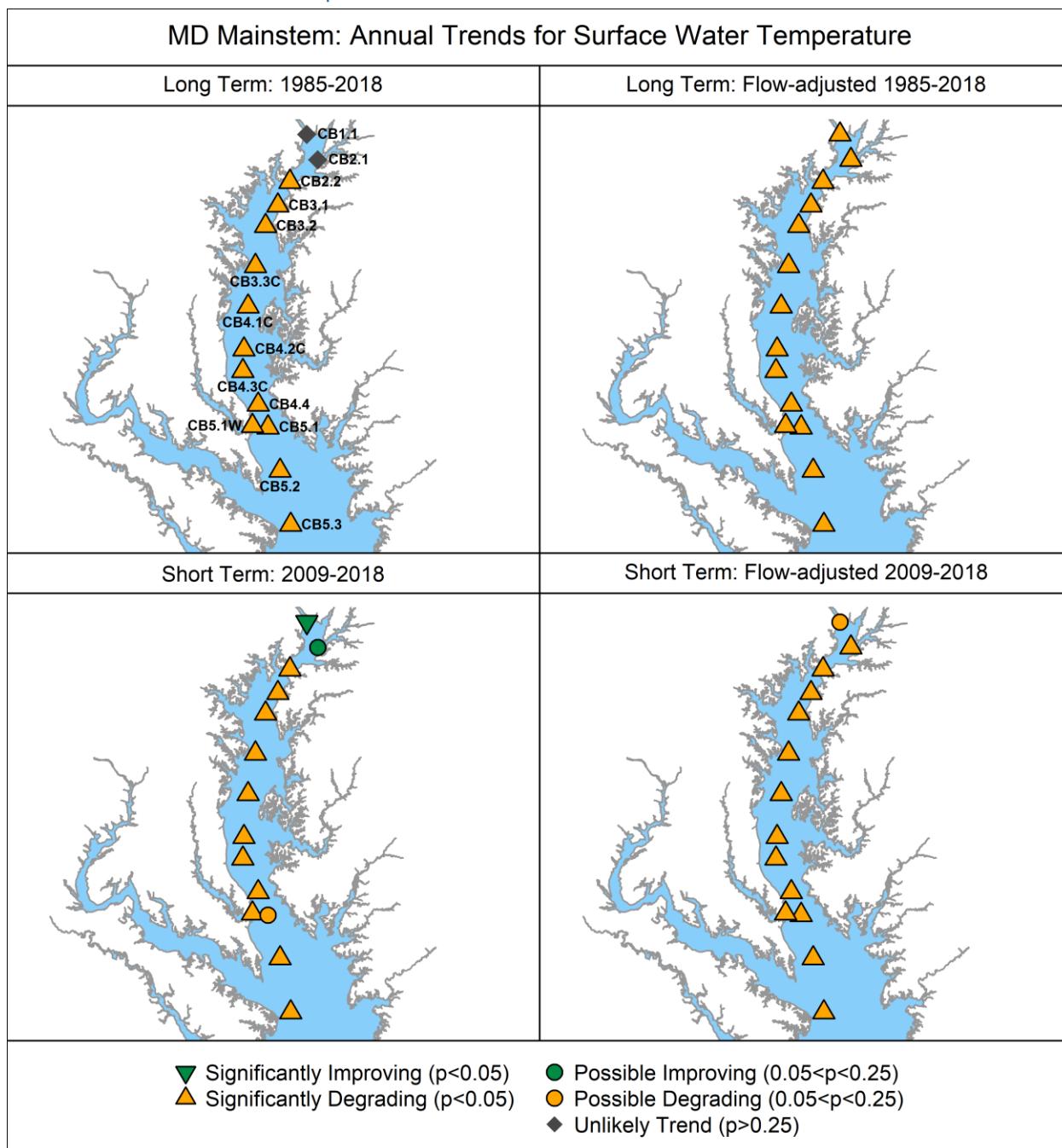


Figure A-13. Surface layer water temperature trends.

Annual Surface Water Temperature Data and Average Predictions

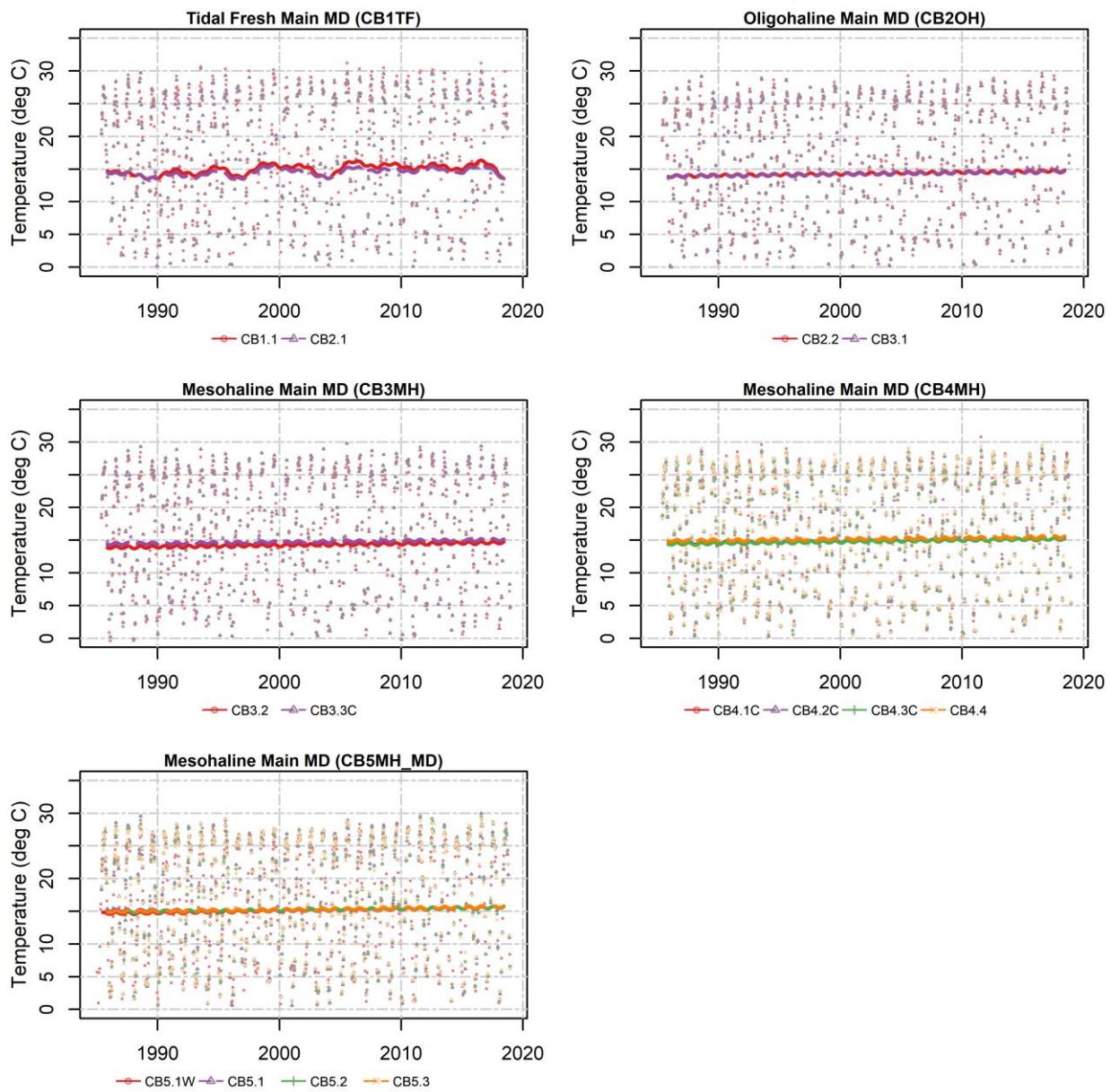


Figure A-14. Surface water temperature data (dots) and average long-term pattern generated from non-flow adjusted GAMs.