

Tidal Trends in Water Quality:

APPENDIX

Potomac River 2018 Tributary Summary

February 6, 2020

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

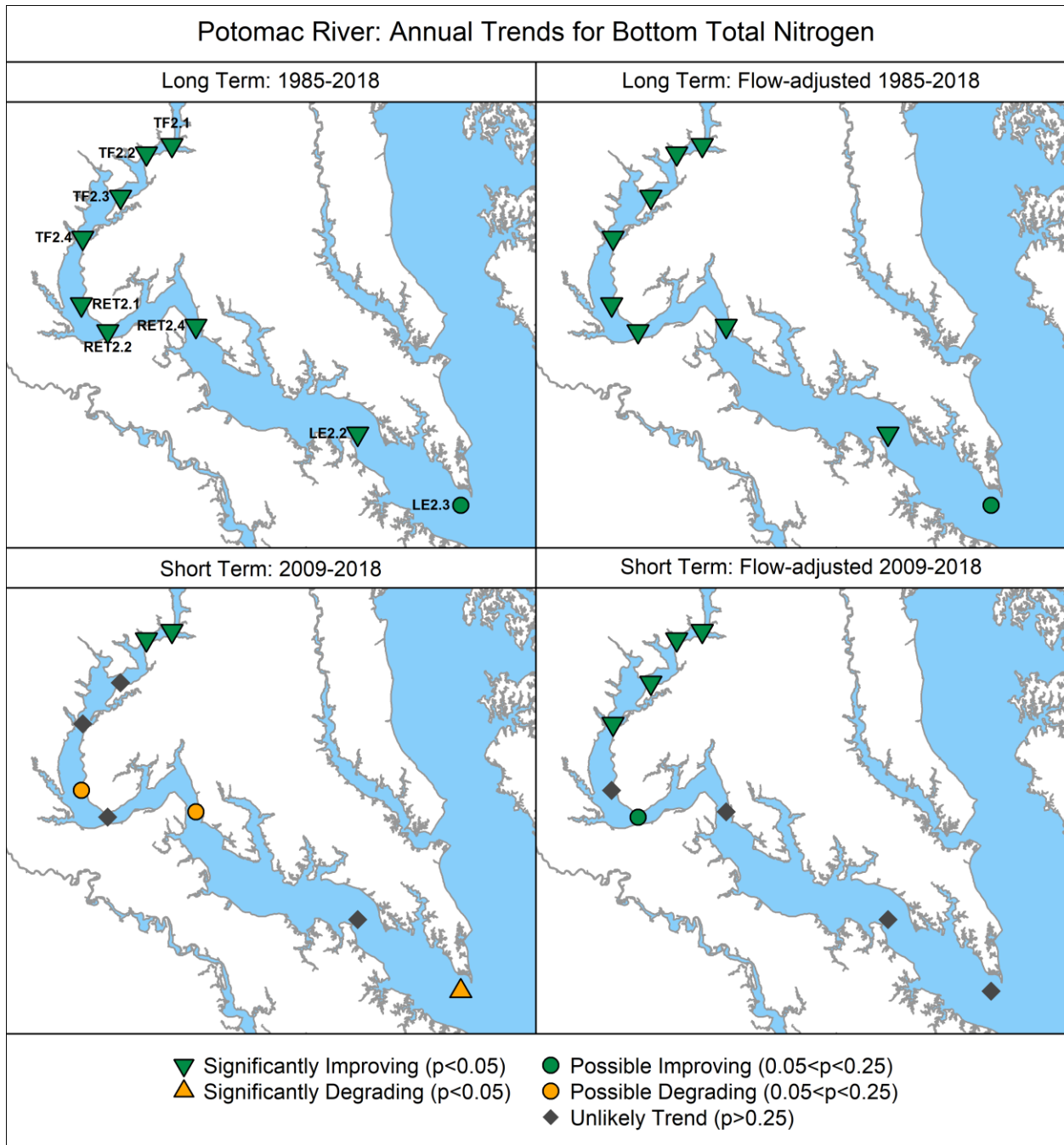


Figure A-1. Bottom total nitrogen trends

Annual Bottom Total Nitrogen Data and Average Predictions

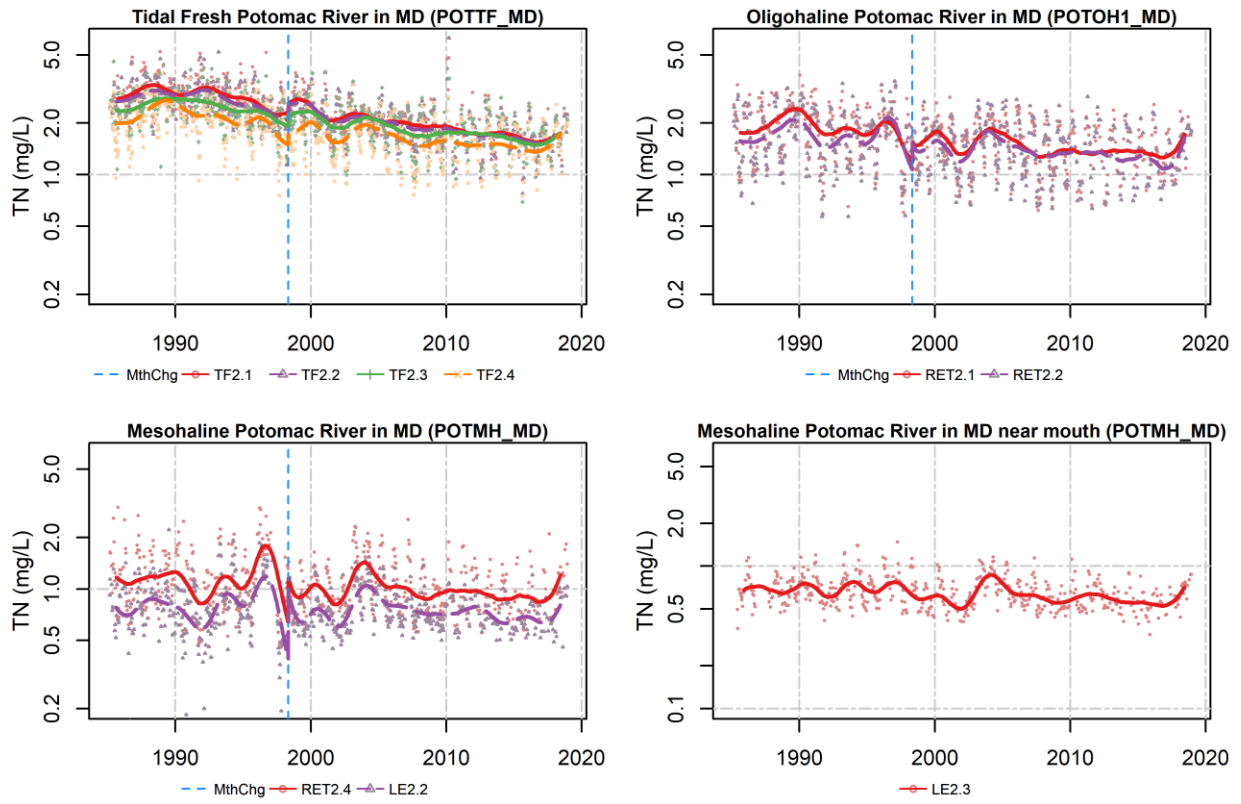


Figure A-2. Bottom total nitrogen data (dots) and average long-term pattern generated from non-flow adjusted GAM

2. Bottom Total Phosphorus

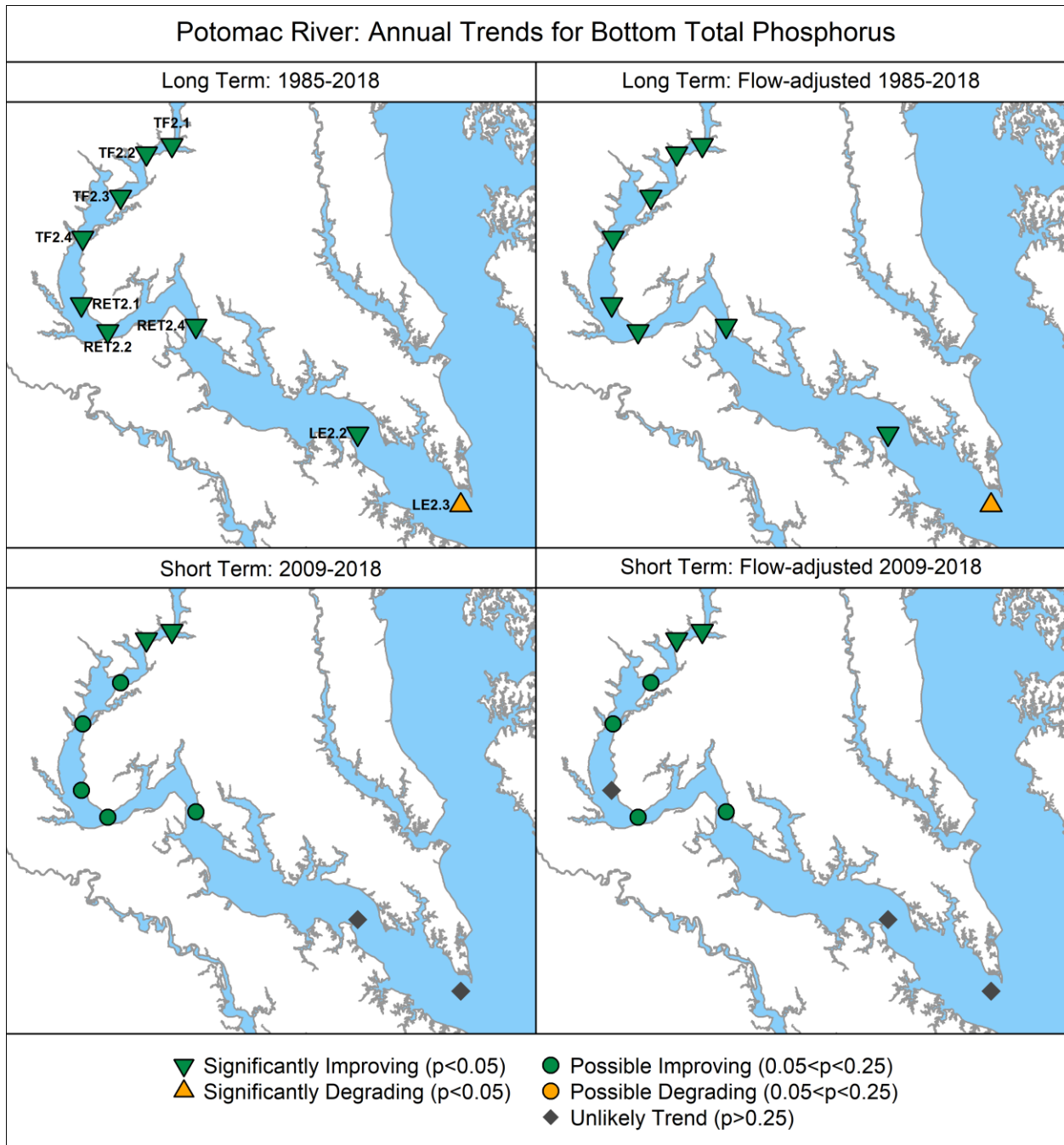


Figure A-3. Bottom total phosphorus trends

Annual Bottom Total Phosphorus Data and Average Predictions

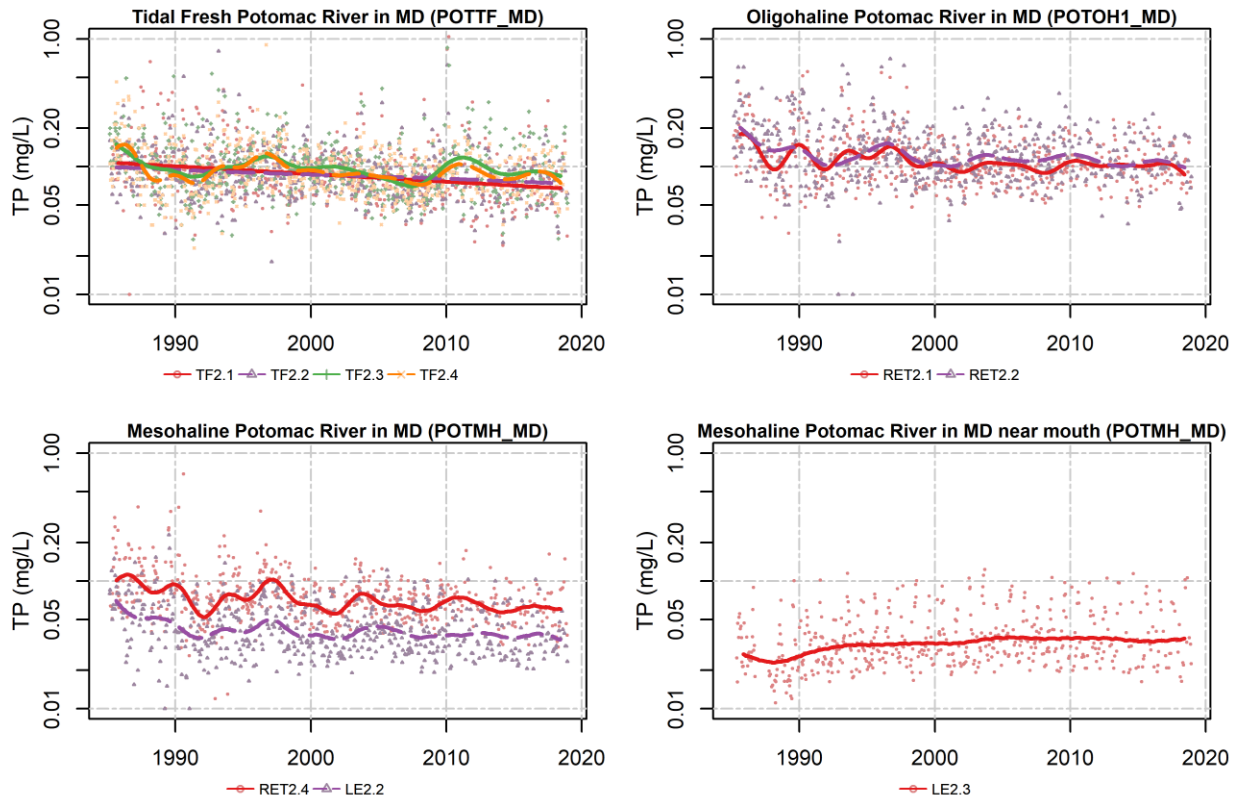


Figure A-4. Bottom total phosphorus data (dots) and average long-term pattern generated from non-flow adjusted GAM

3. Surface Dissolved Inorganic Nitrogen (DIN)

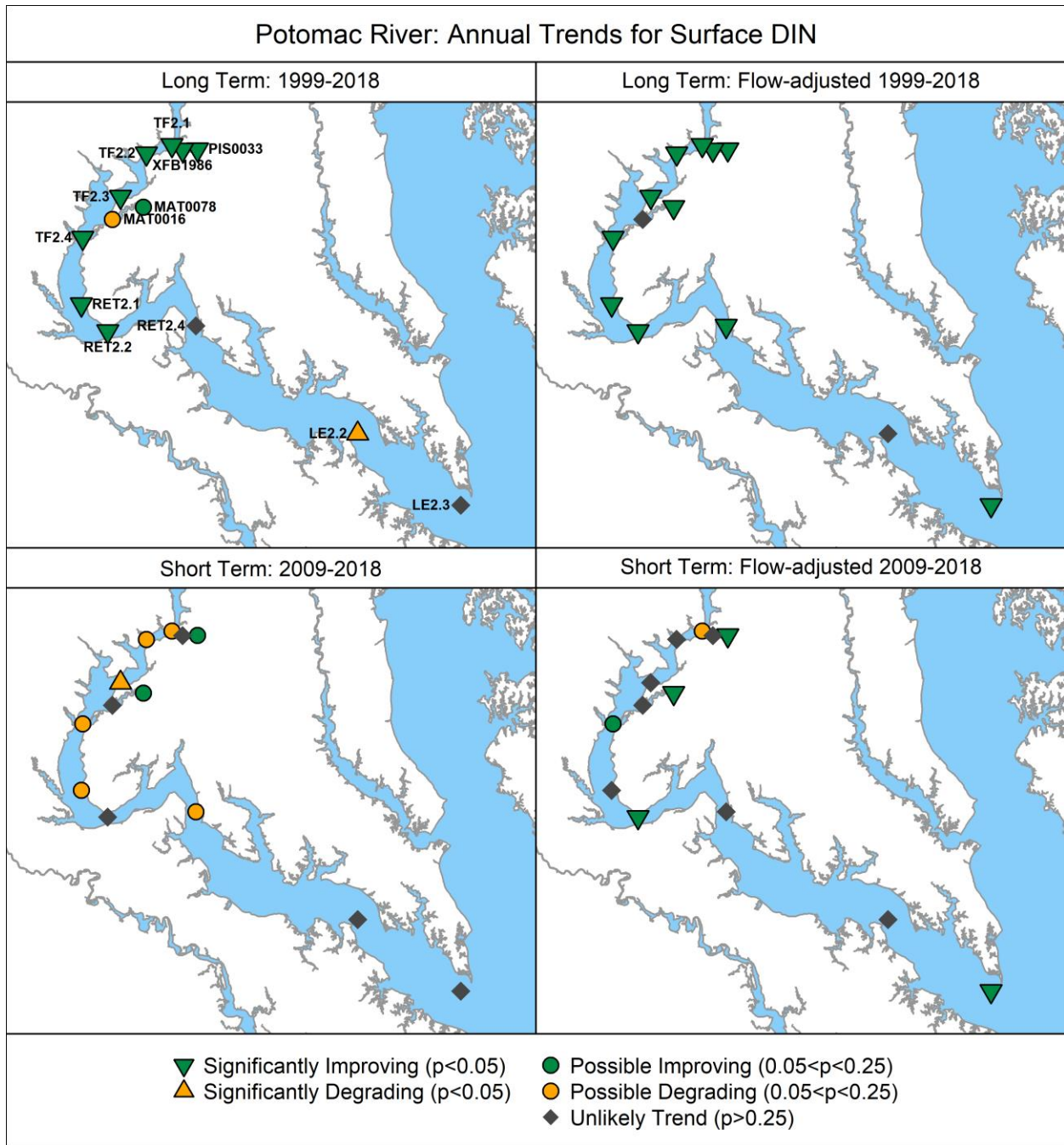


Figure A-5. Surface DIN trends

Annual Surface Dissolved Inorganic Nitrogen Data and Average Predictions

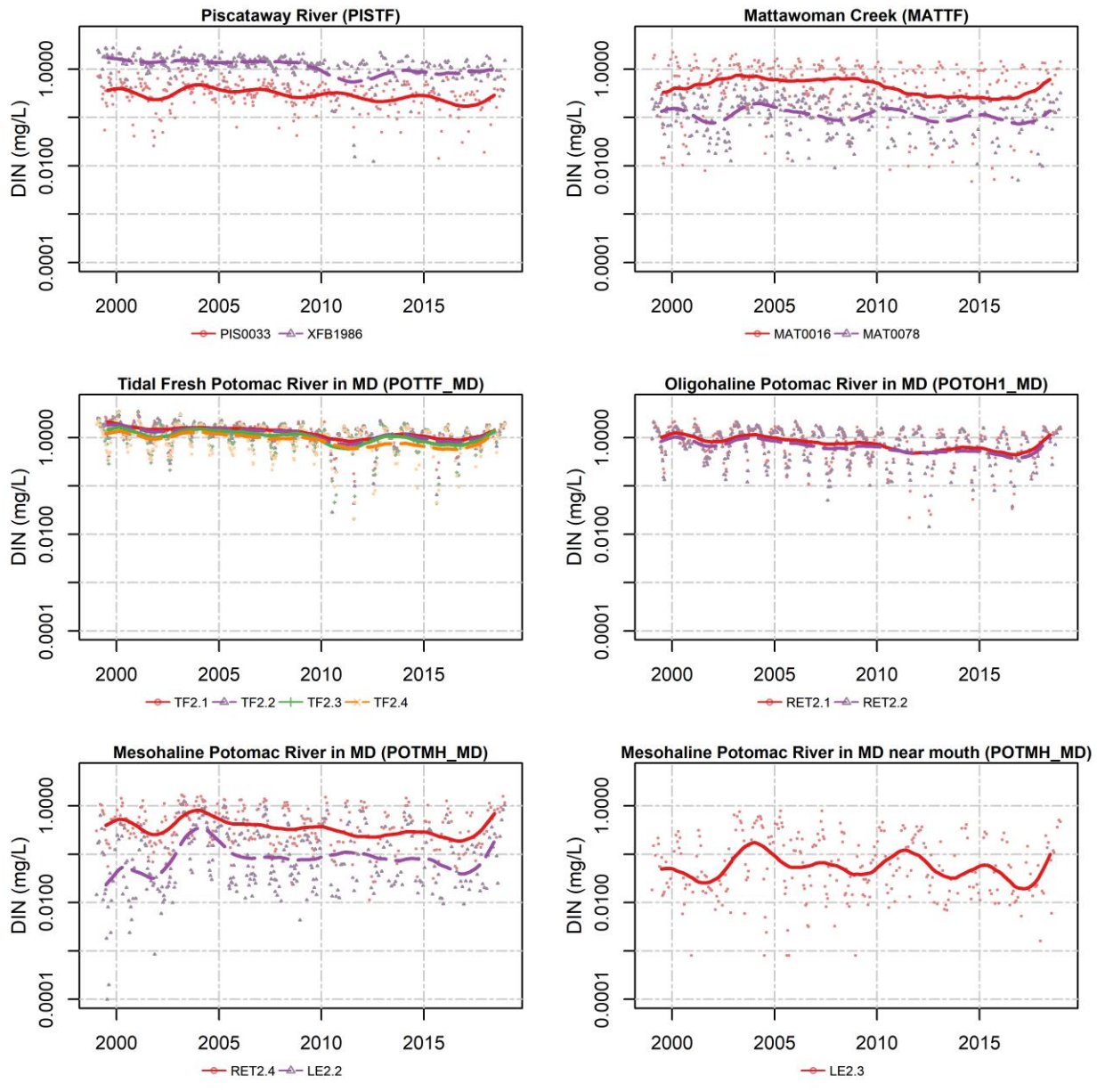


Figure A-6. Surface DIN data (dots) and average long-term pattern generated from non-flow adjusted GAM

4. Surface Orthophosphate (PO4)

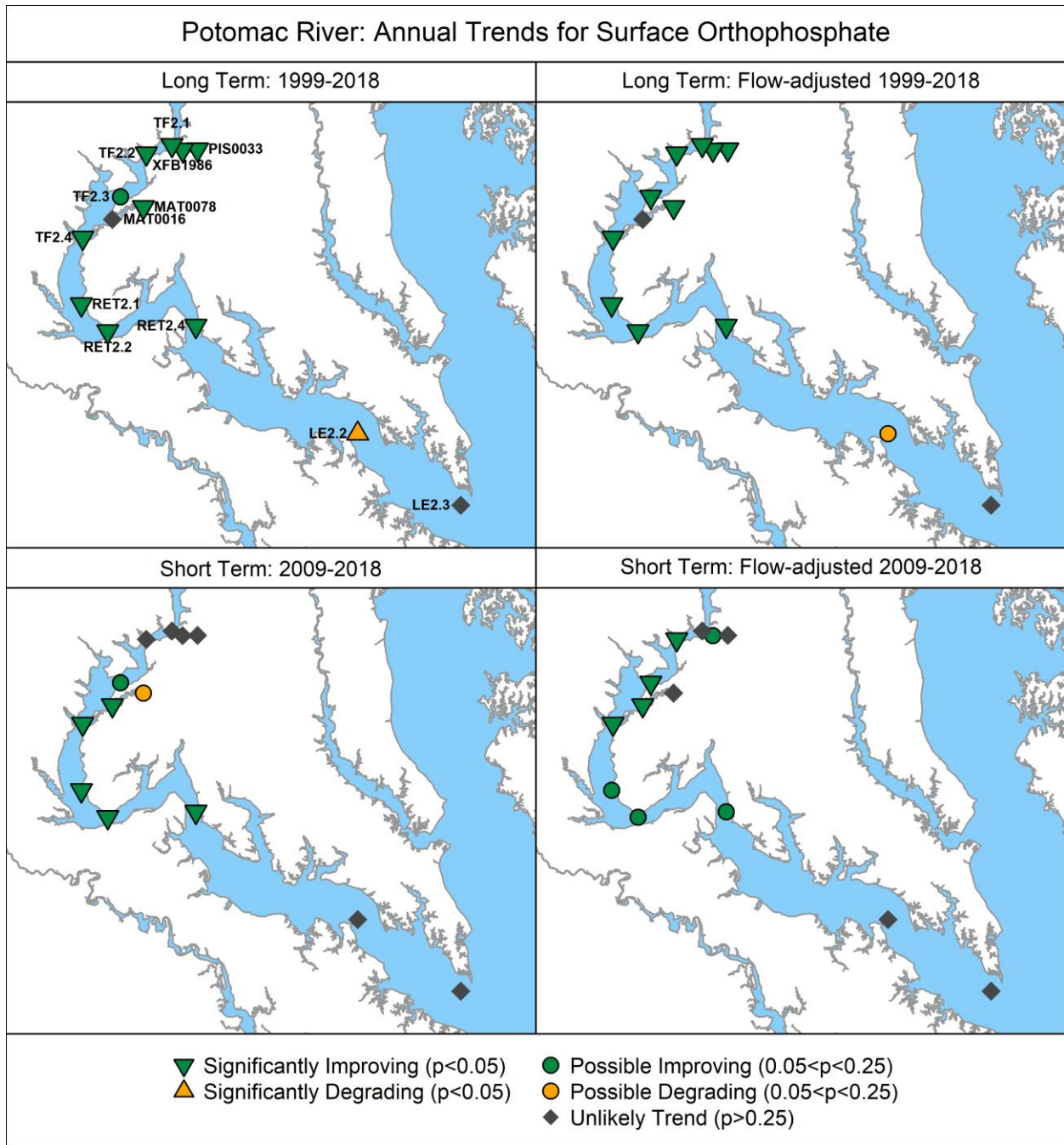


Figure A-7. Surface orthophosphate trends

Annual Surface Orthophosphate Data and Average Predictions

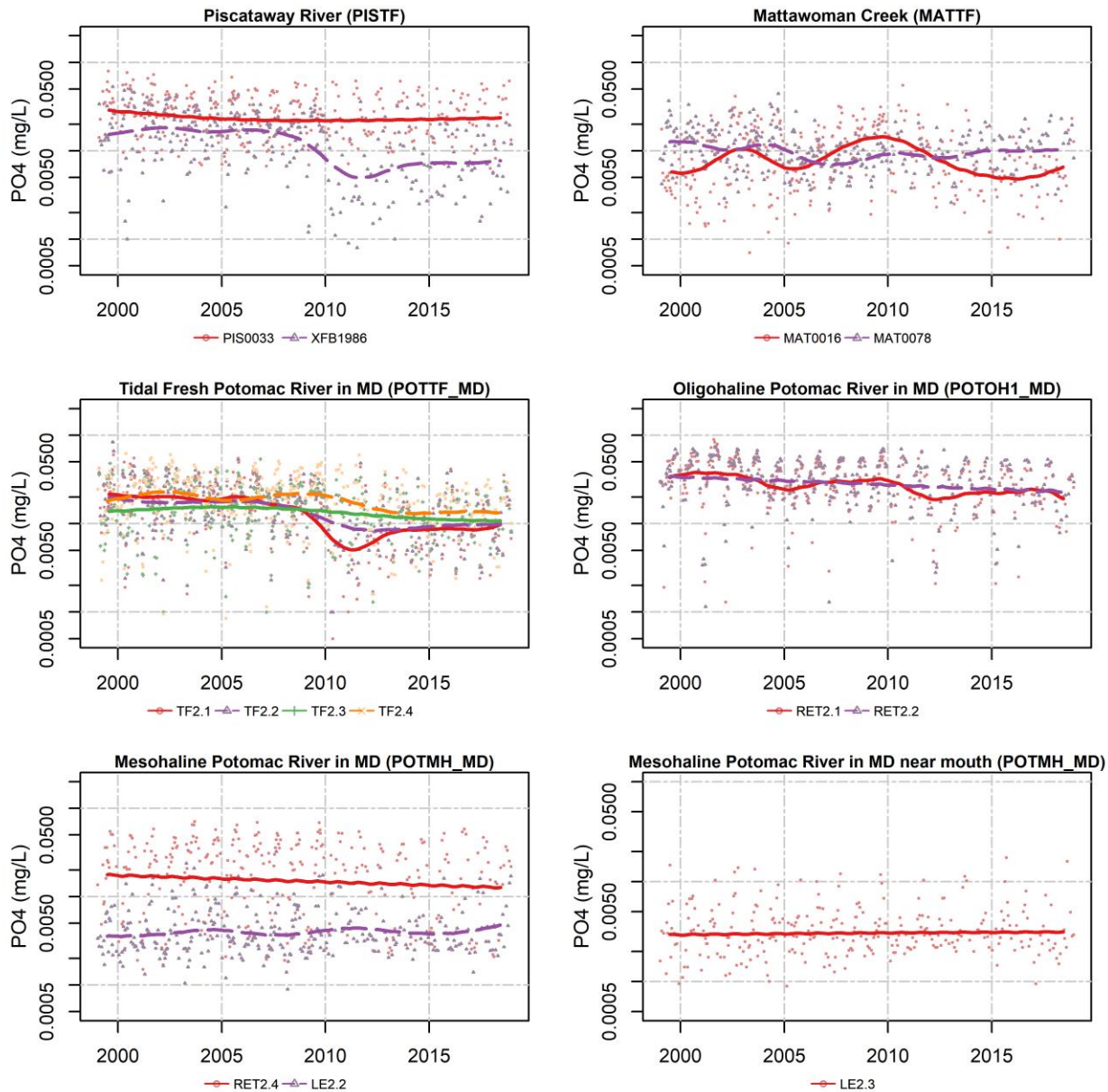


Figure A-8. Surface orthophosphate data (dots) and average long-term pattern generated from non-flow adjusted GAM

5. Surface Total Suspended Solids (TSS)

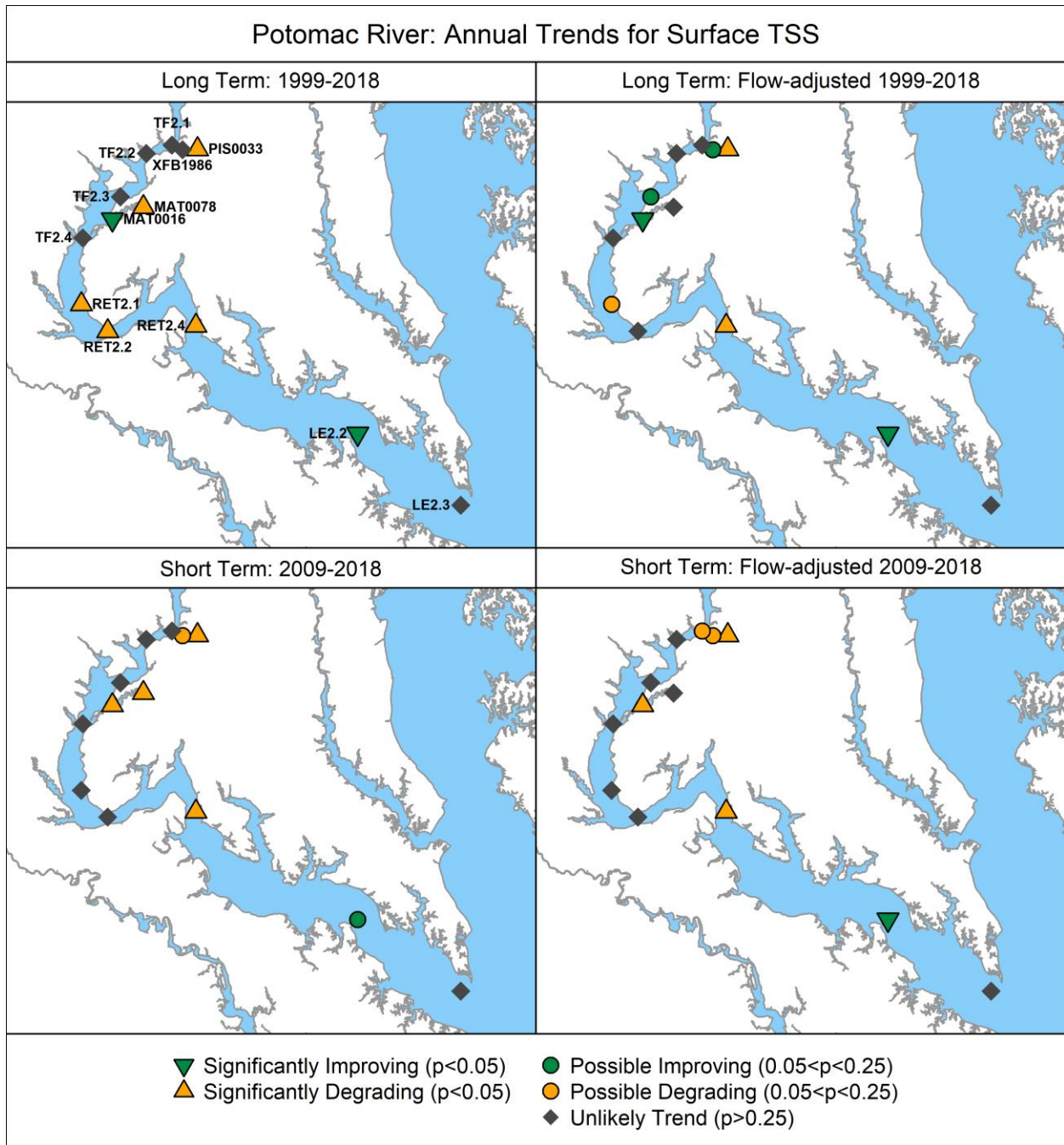


Figure A-9. Surface TSS trends

Annual Surface Total Suspended Solids Data and Average Predictions

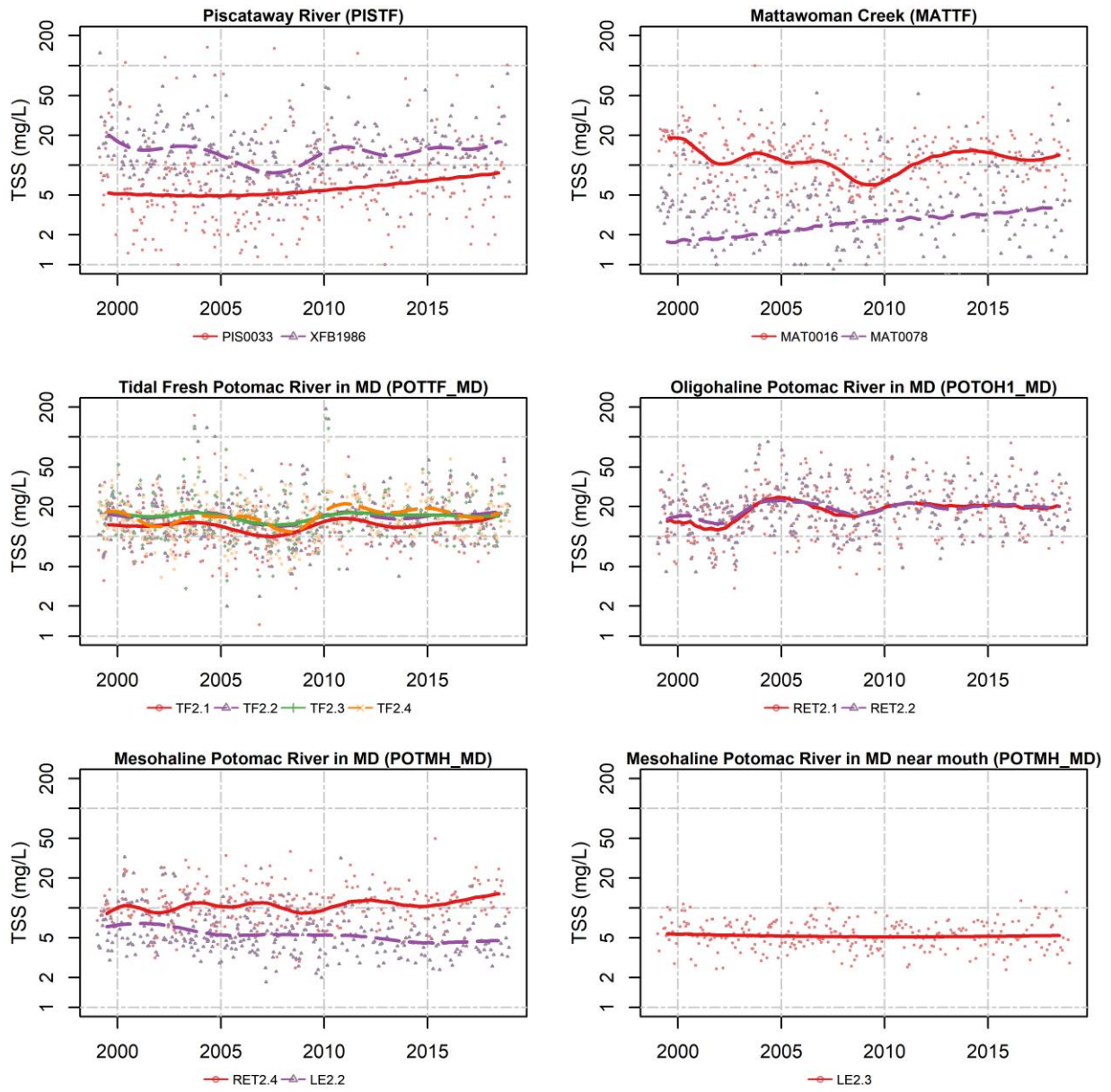


Figure A-10. Surface TSS data (dots) and average long-term pattern generated from non-flow adjusted GAM

6. Summer Surface Dissolved Oxygen (DO)

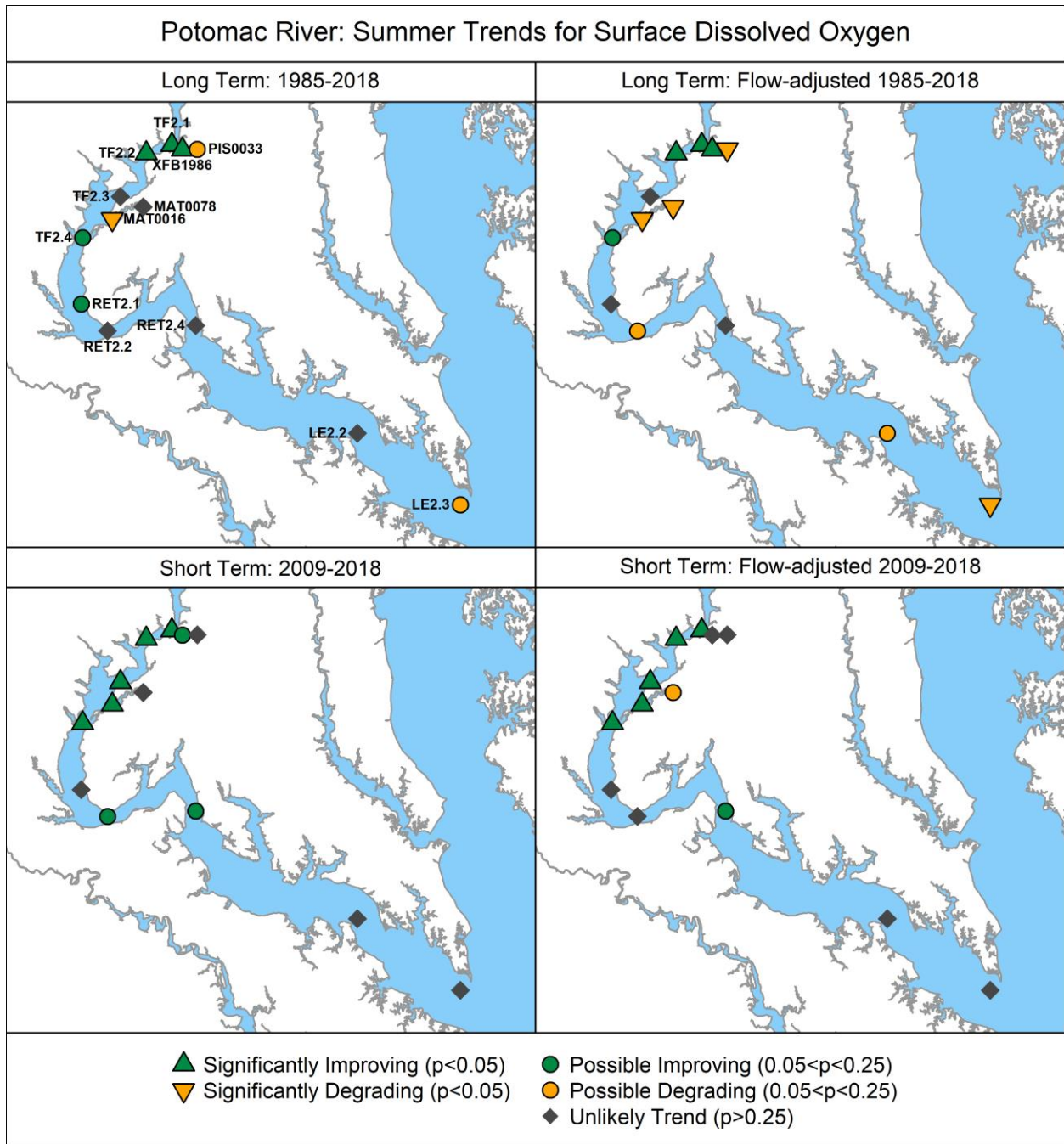


Figure A-11. Summer (June-Sept) surface layer DO trends

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

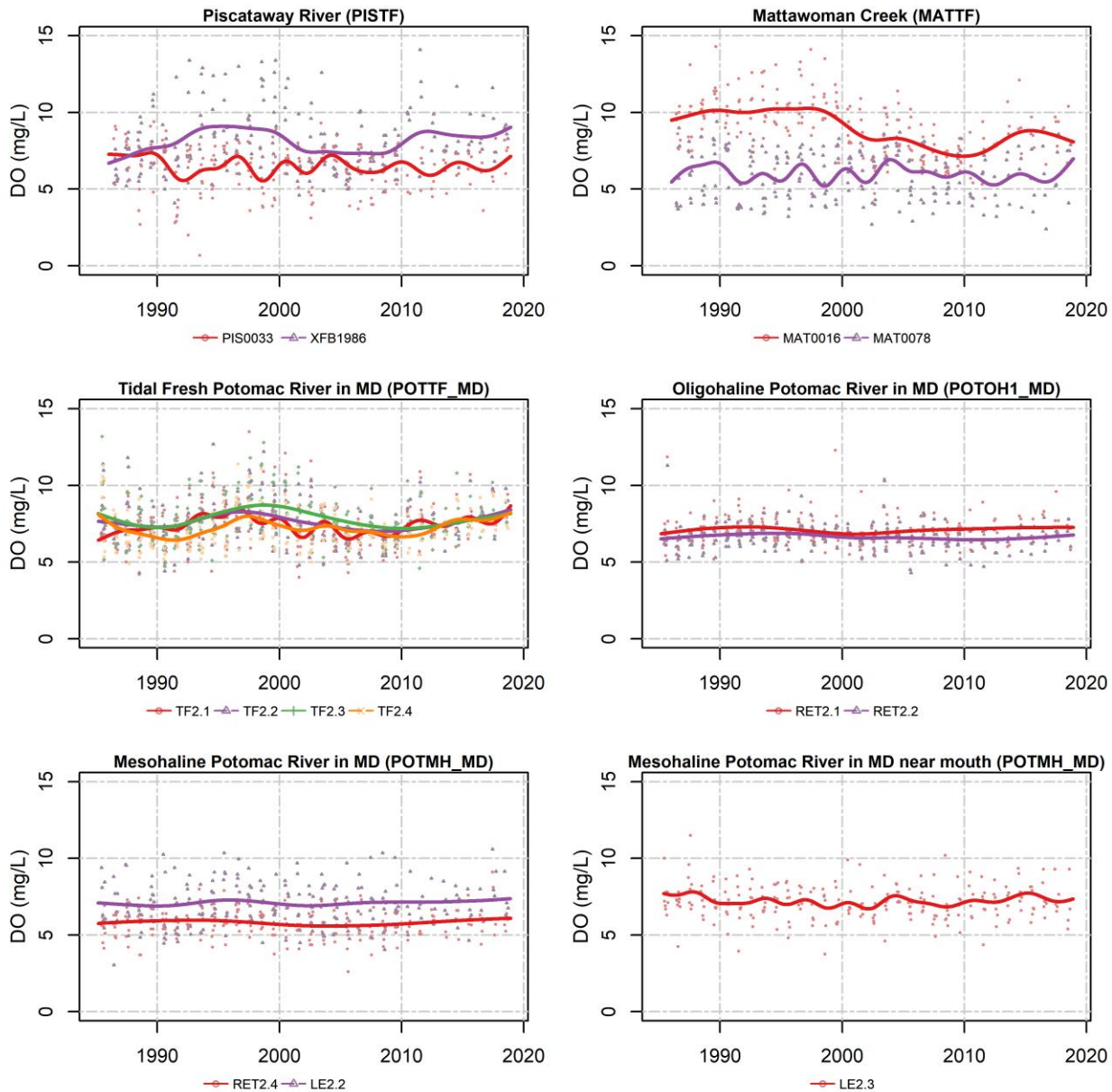


Figure A-12. Summer (June-Sept) surface DO data (dots) and July 1 long-term pattern generated from non-flow adjusted GAM

7. Surface Water Temperature

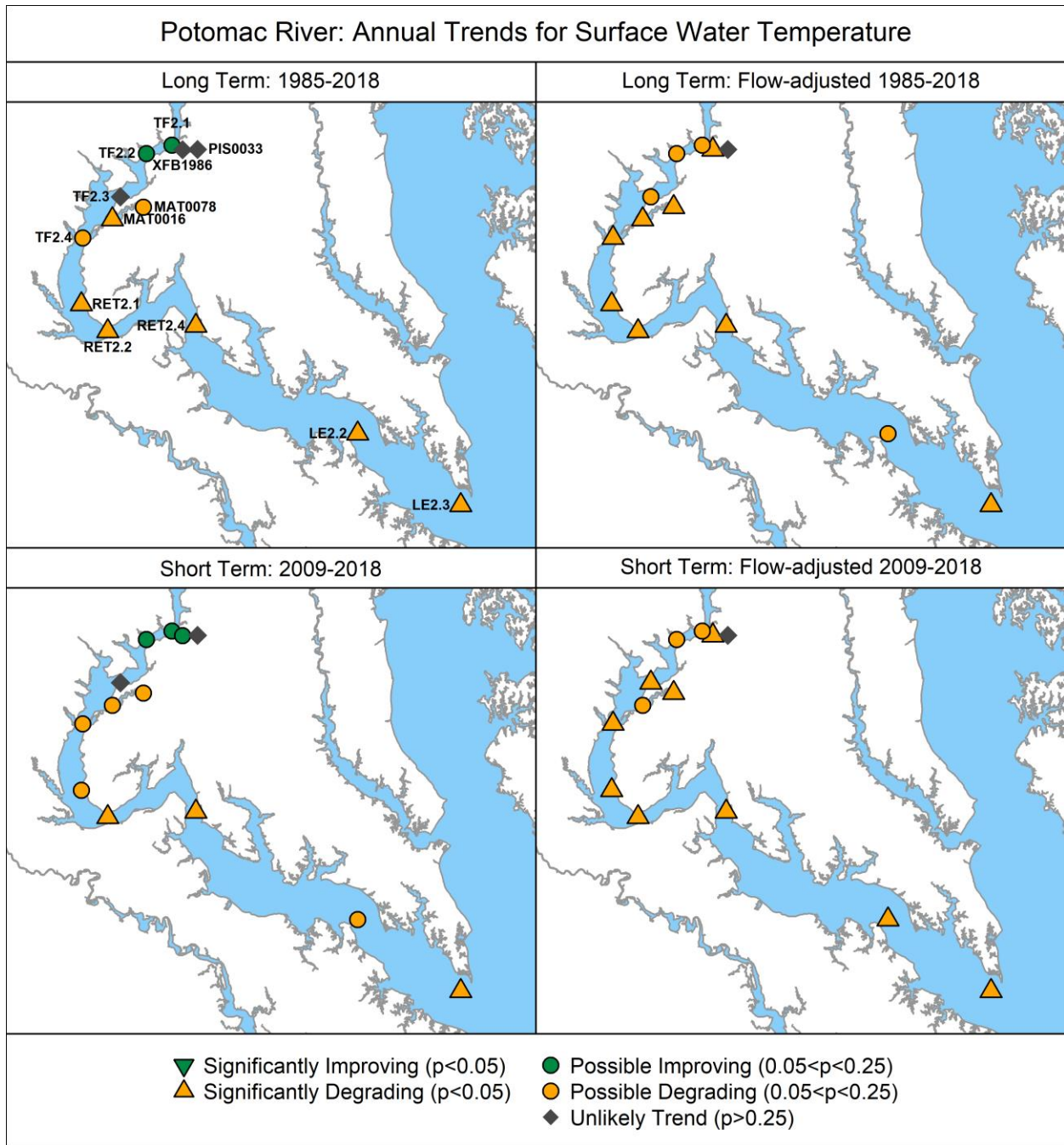


Figure A-13. Surface layer water temperature trends.

Annual Surface Water Temperature Data and Average Predictions

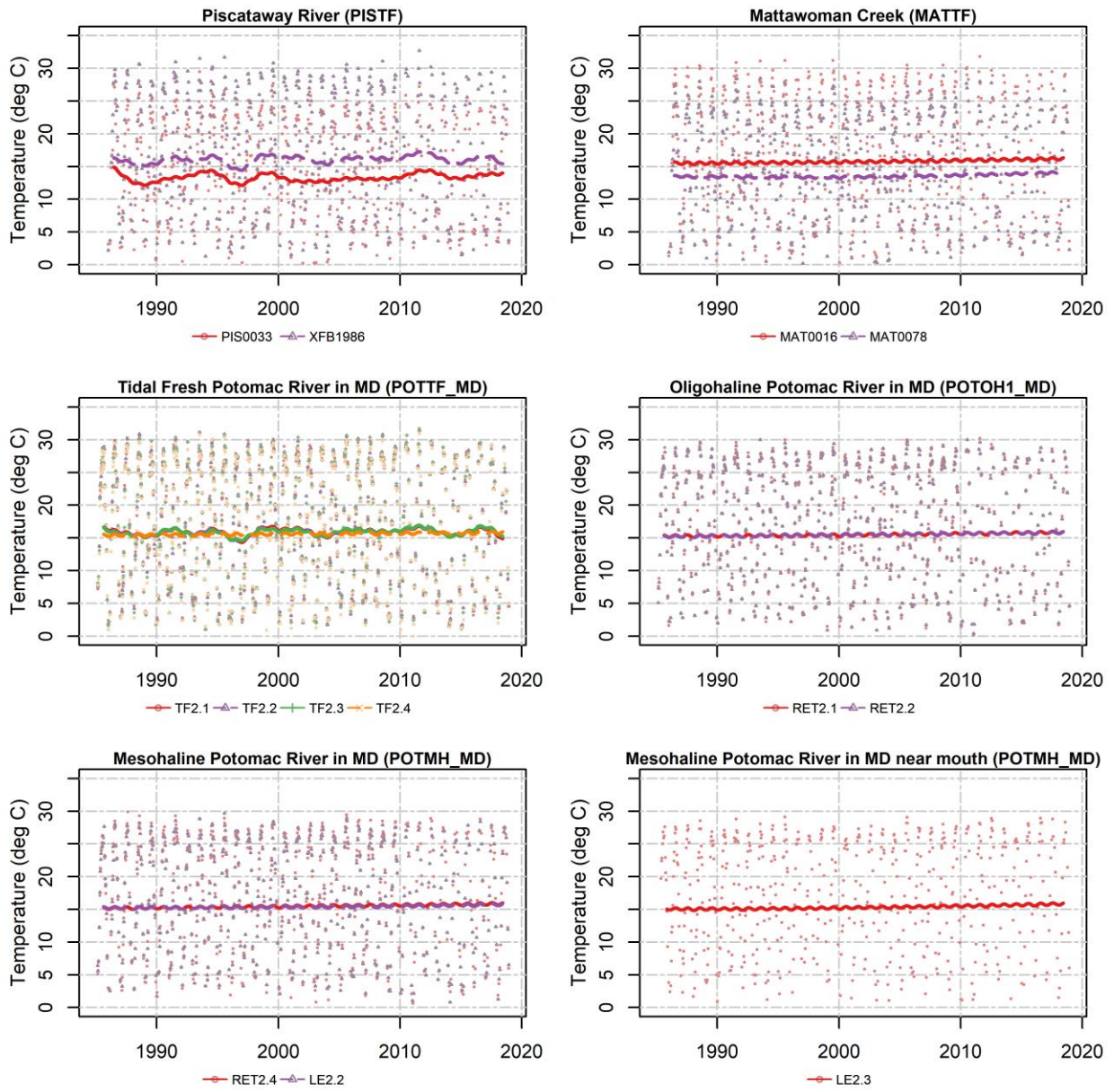


Figure A-14. Surface water temperature data (dots) and average long-term pattern generated from non-flow adjusted GAM