Tidal Trends in Water Quality:

APPENDIX

Rappahannock 2018 Tributary Summary

April 15, 2021

Contents

1. Bottom Total Nitrogen

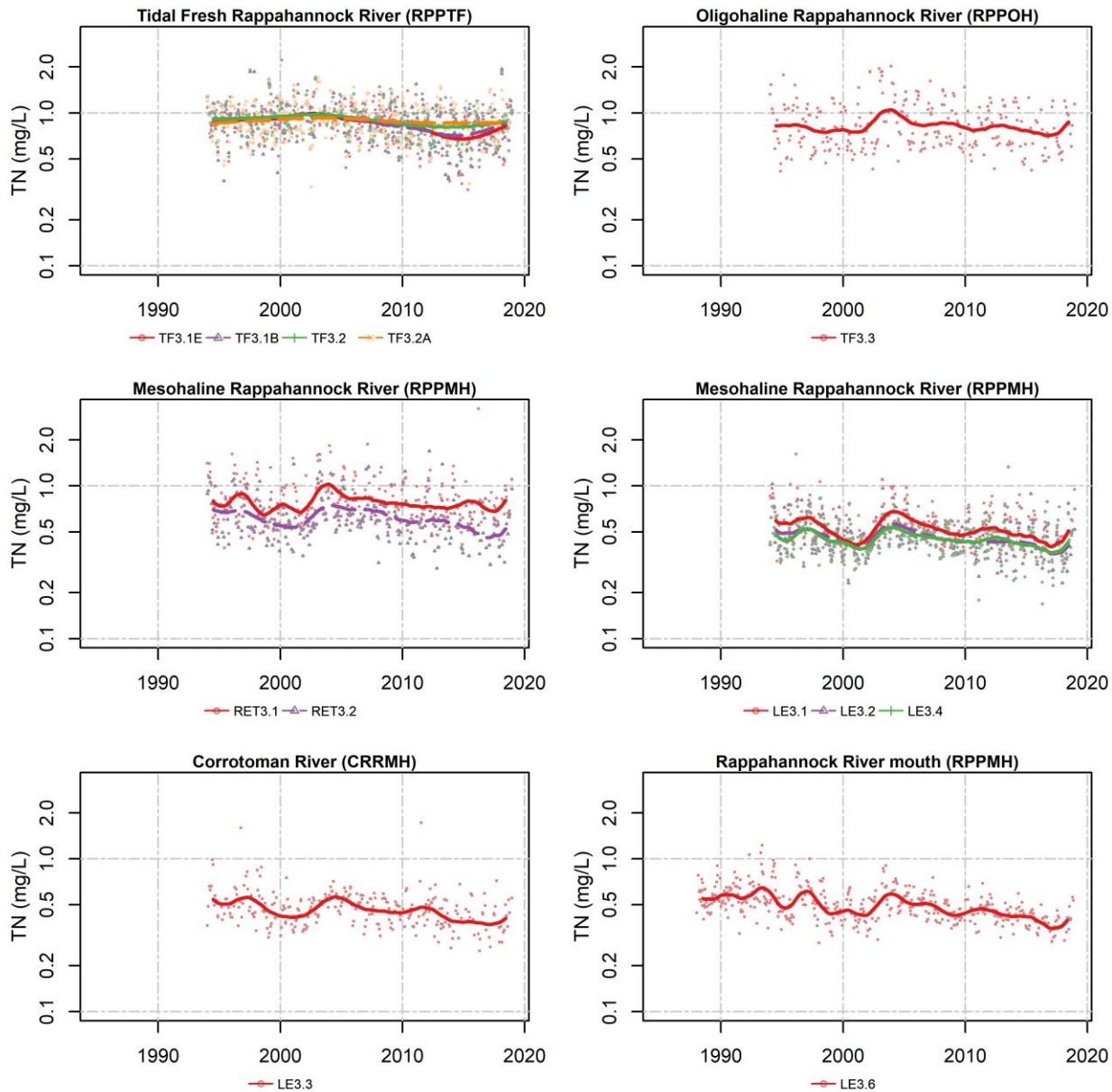Figure A-1. Bottom total nitrogen trends.

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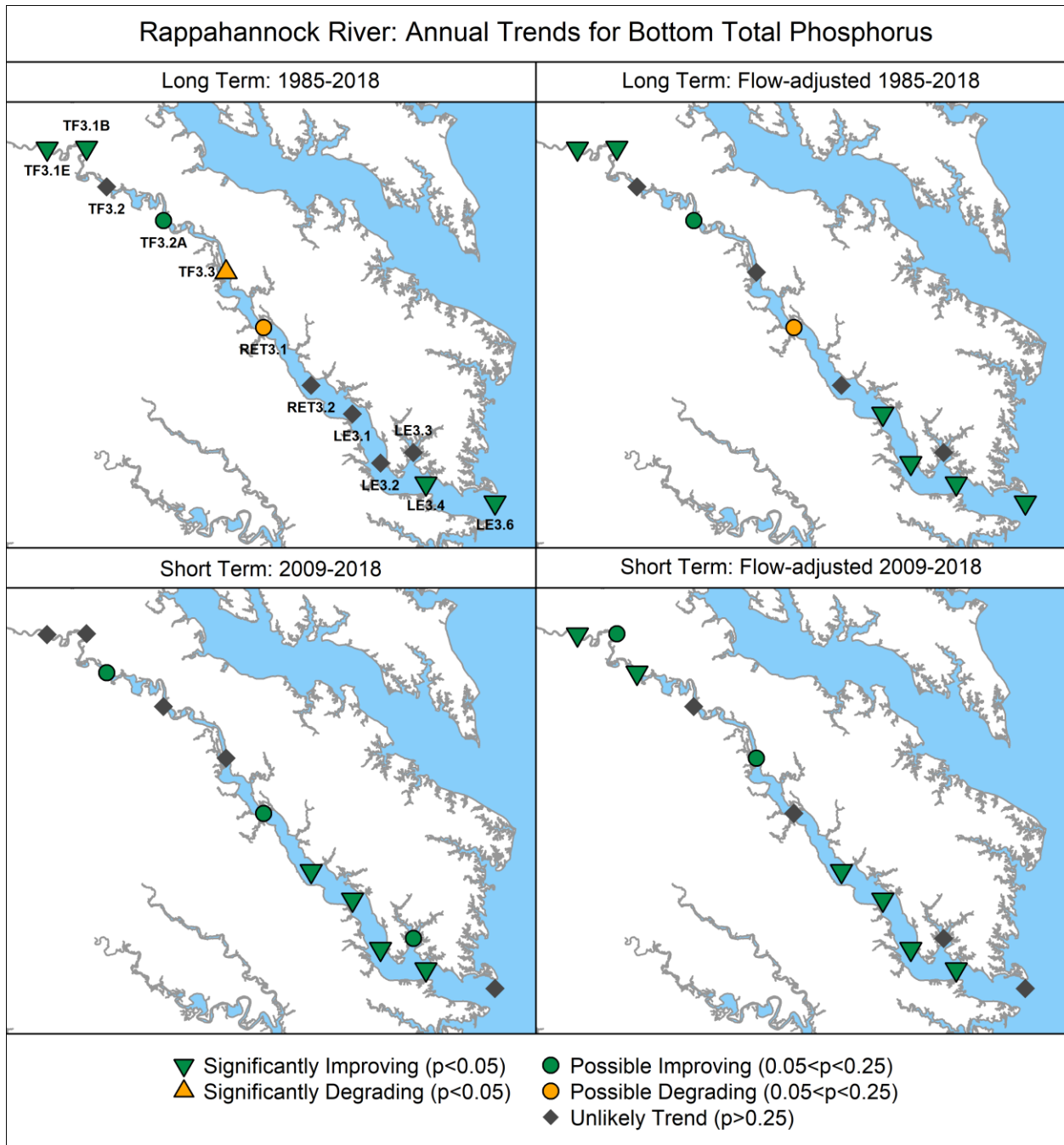
2. Bottom Total Phosphorus

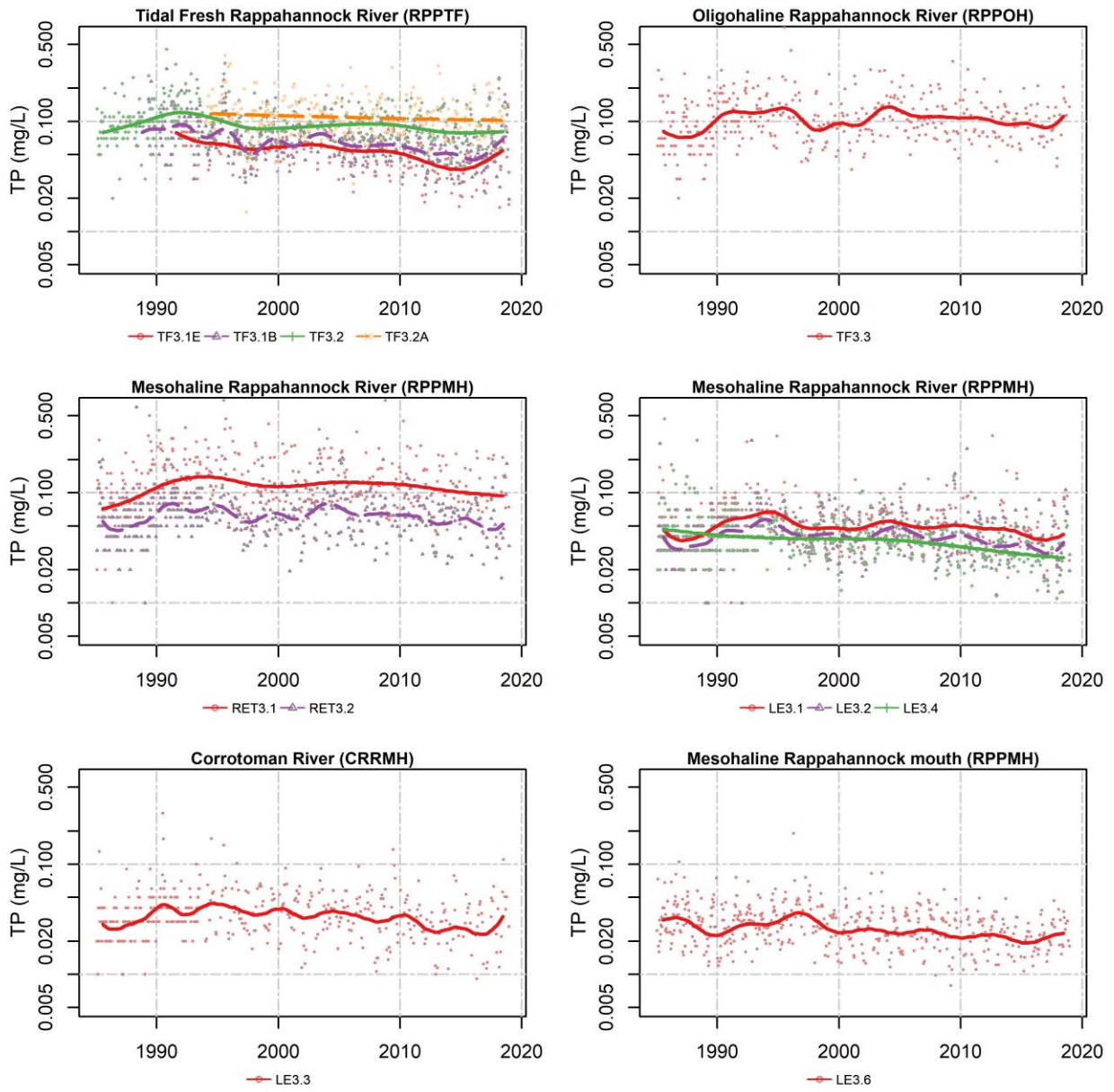Figure A-3. Bottom total phosphorus trends.

Figure A-4. Bottom total phosphorus data (dots) and average long-term pattern generated from non-flow adjusted GAMs.
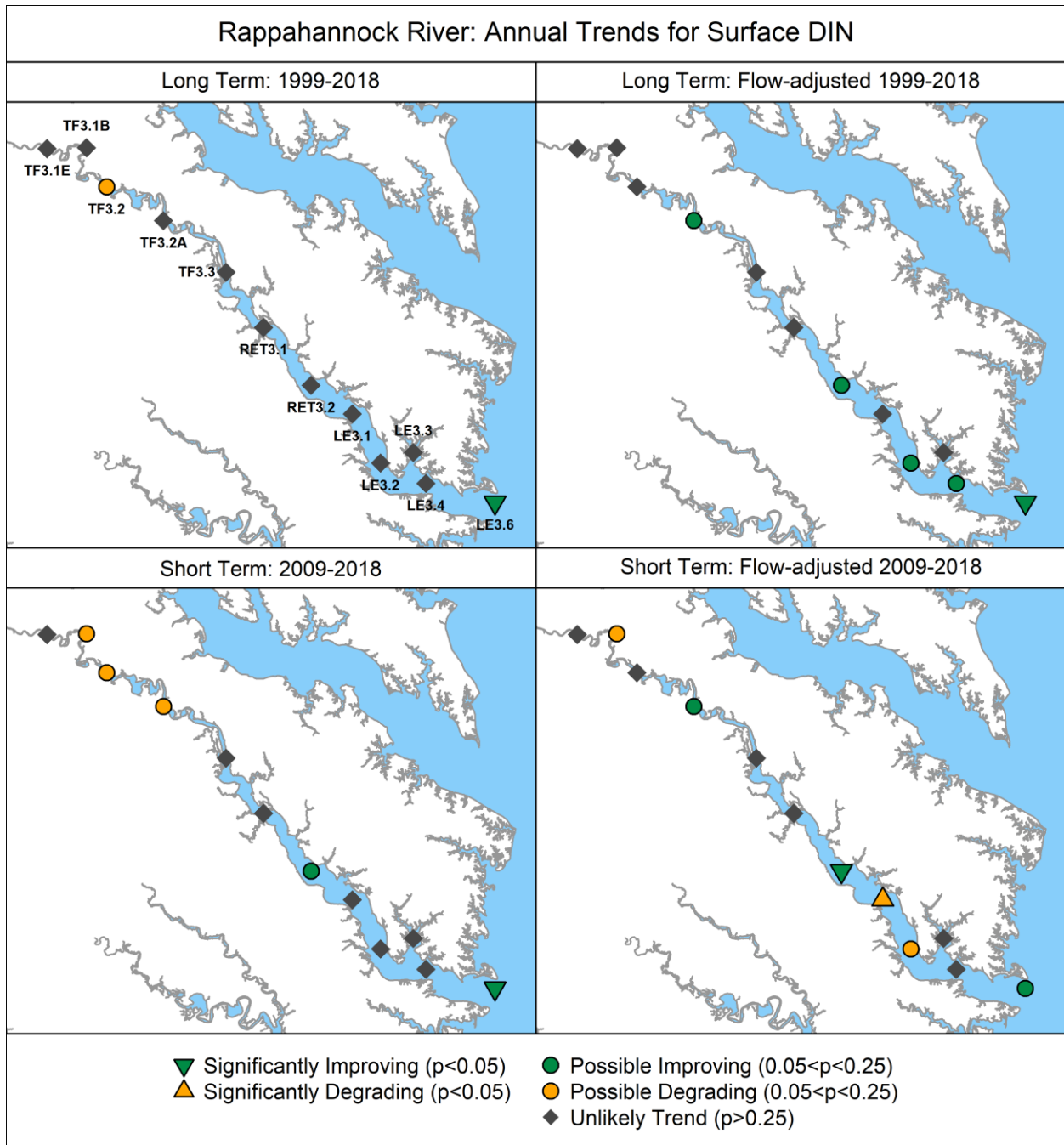
3. Surface Dissolved Inorganic Nitrogen (DIN)
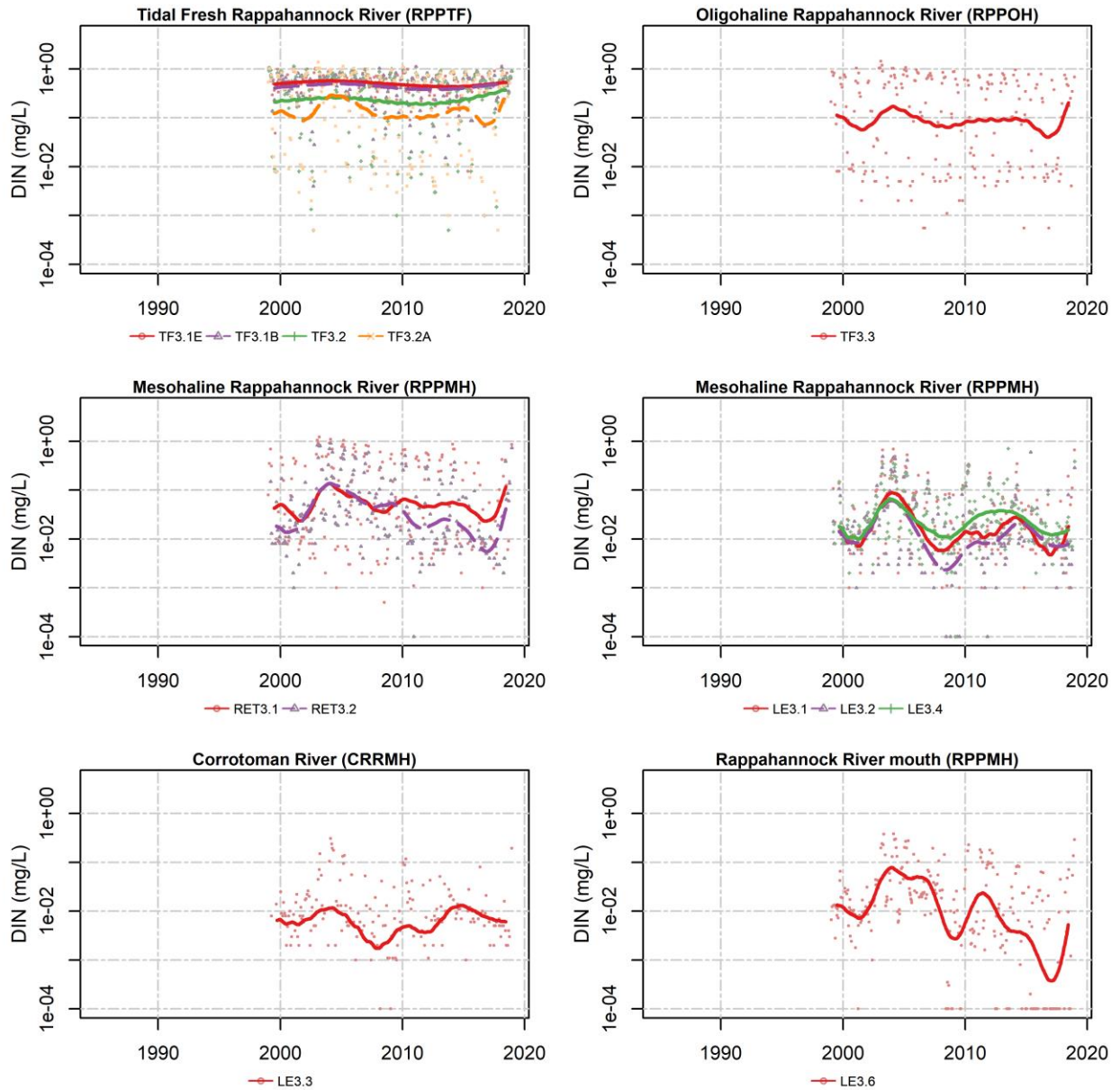

Figure A-5. Surface DIN trends.

Figure A-6. Surface DIN data (dots) and average long-term pattern generated from non-flow adjusted GAMs.
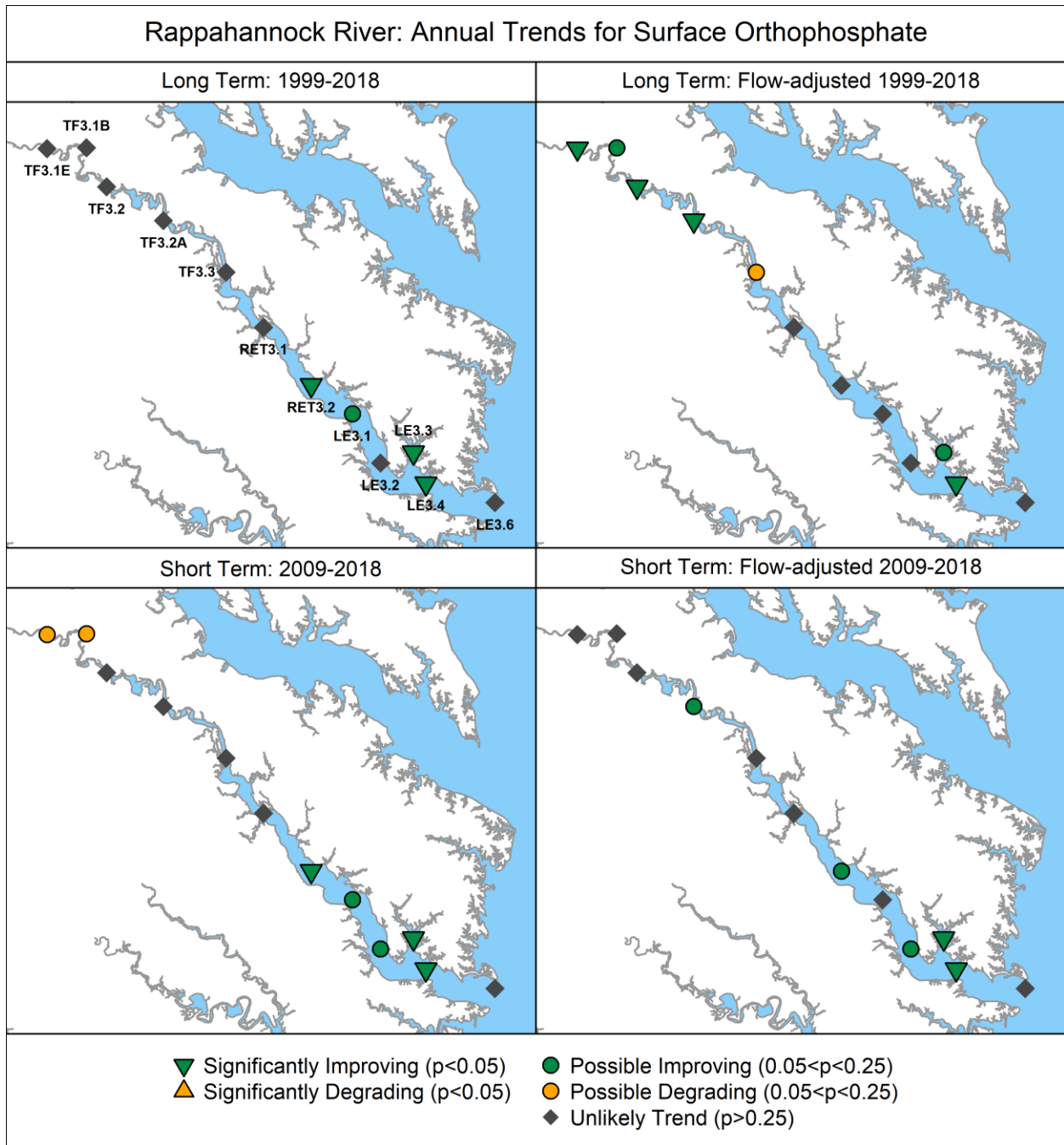
4. Surface Orthophosphate (PO4)

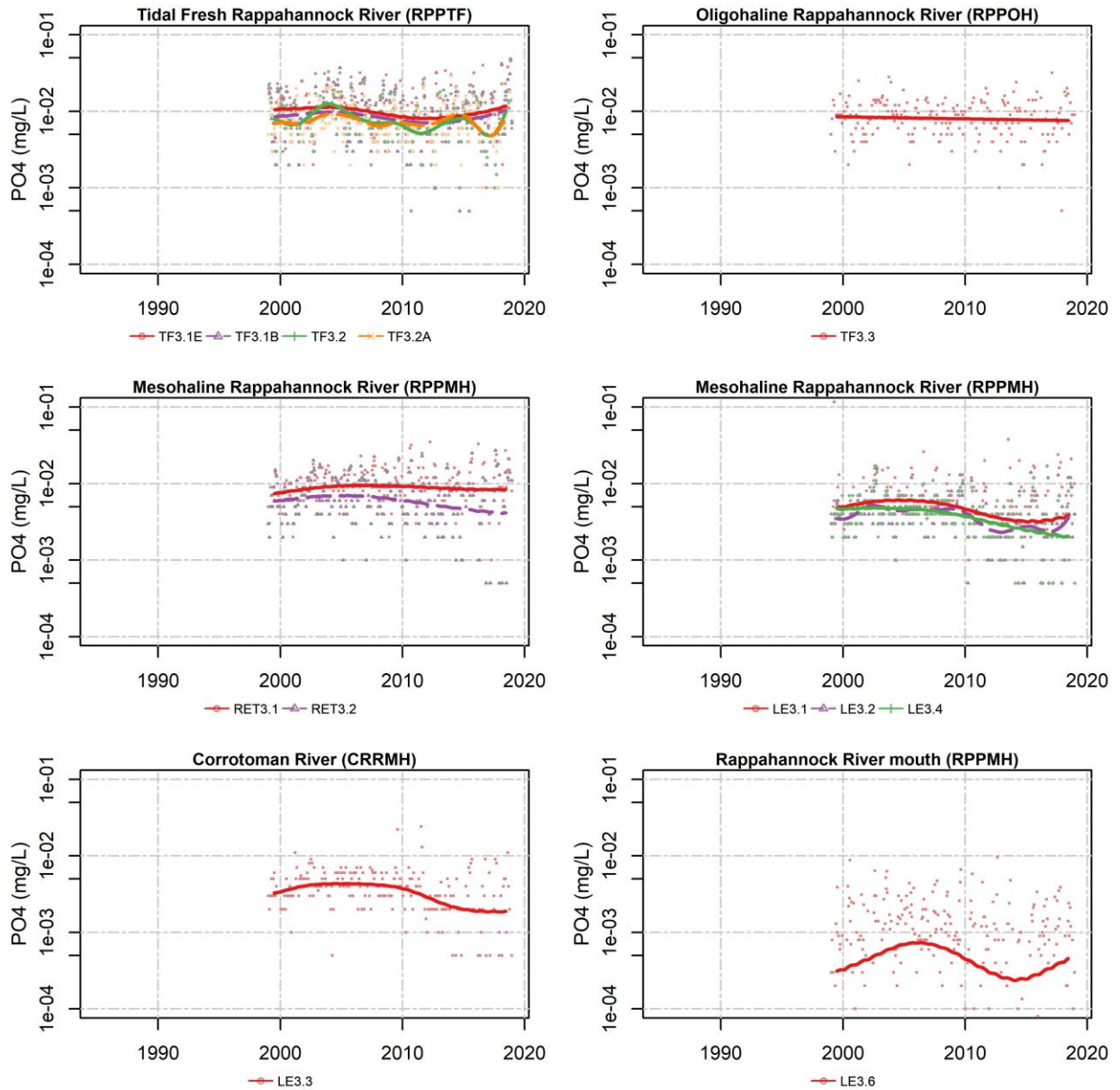Figure A-7. Surface orthophosphate trends.

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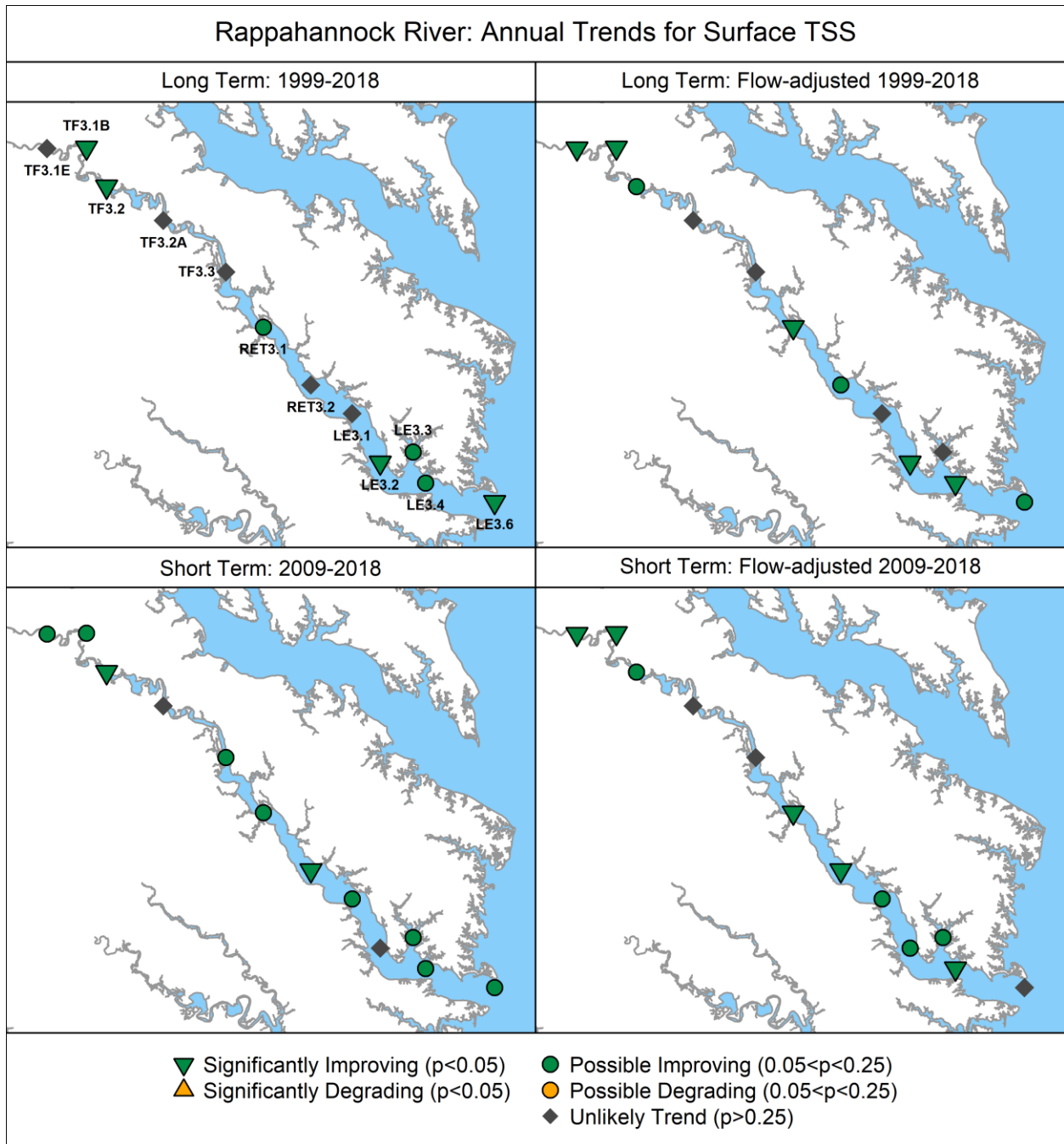
5. Surface Total Suspended Solids (TSS)
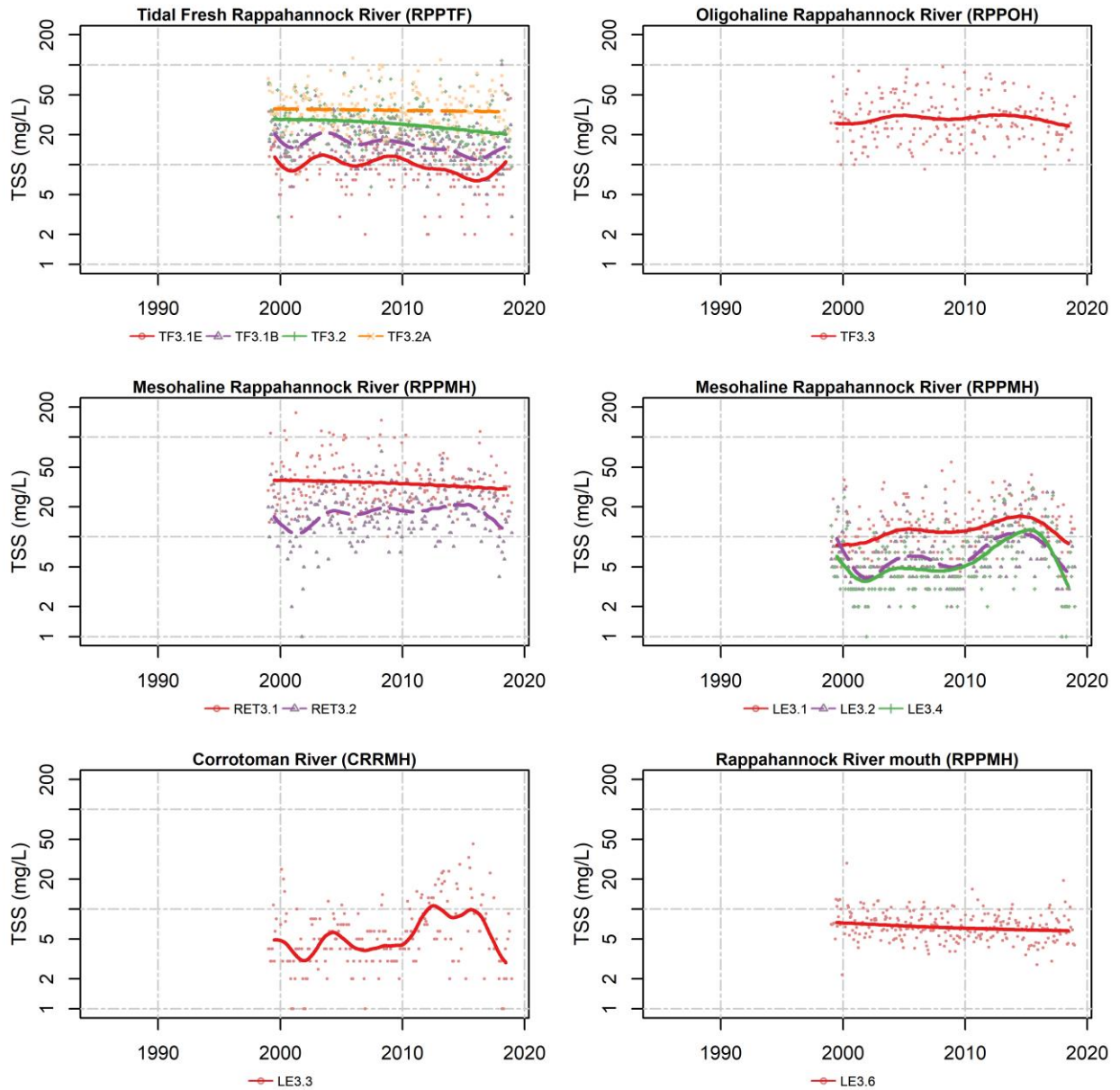

Figure A-9. Surface TSS trends.

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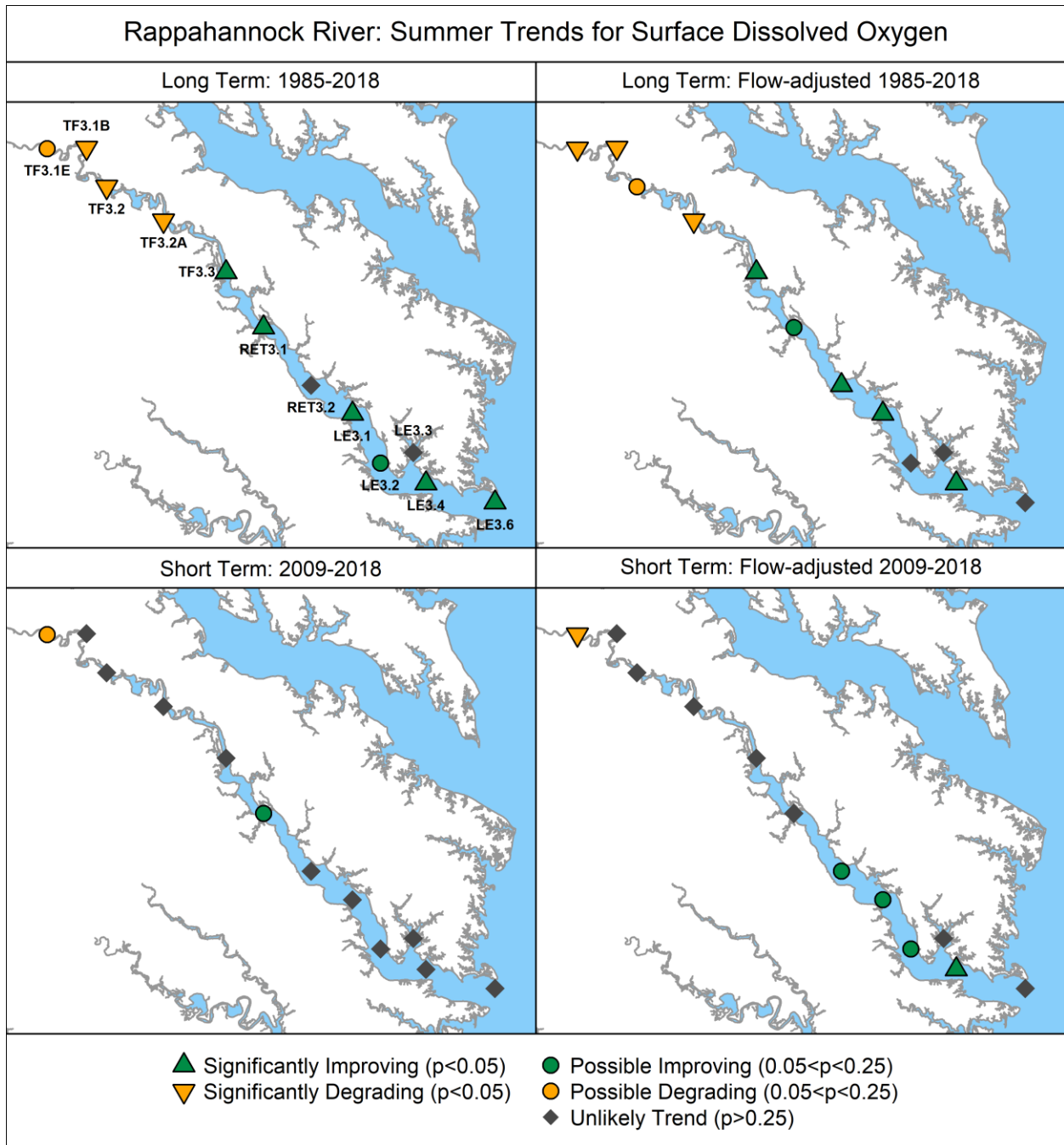
6. Summer Surface Dissolved Oxygen (DO)

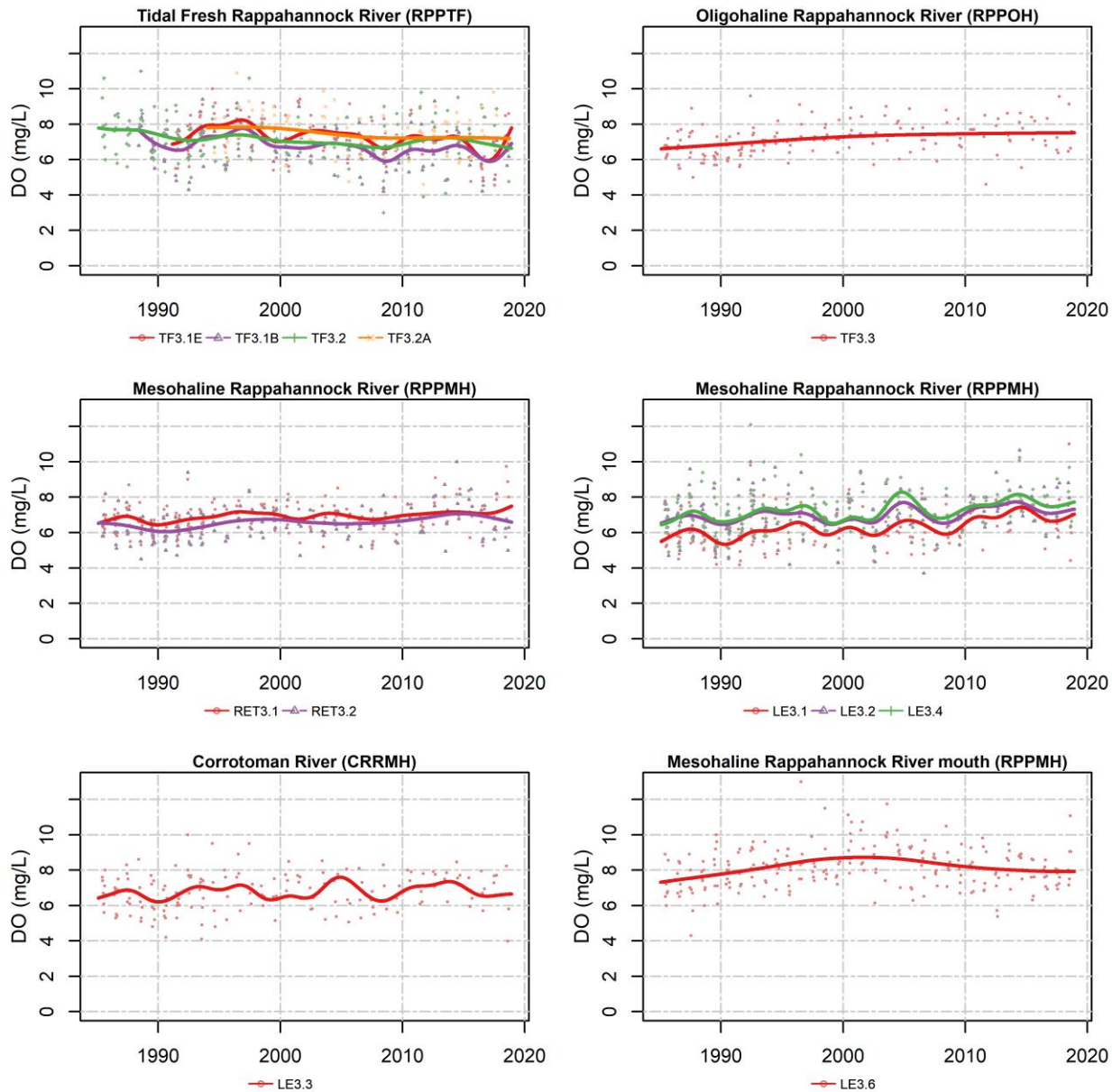Figure A-11. Summer (June-Sept) surface layer DO trends.

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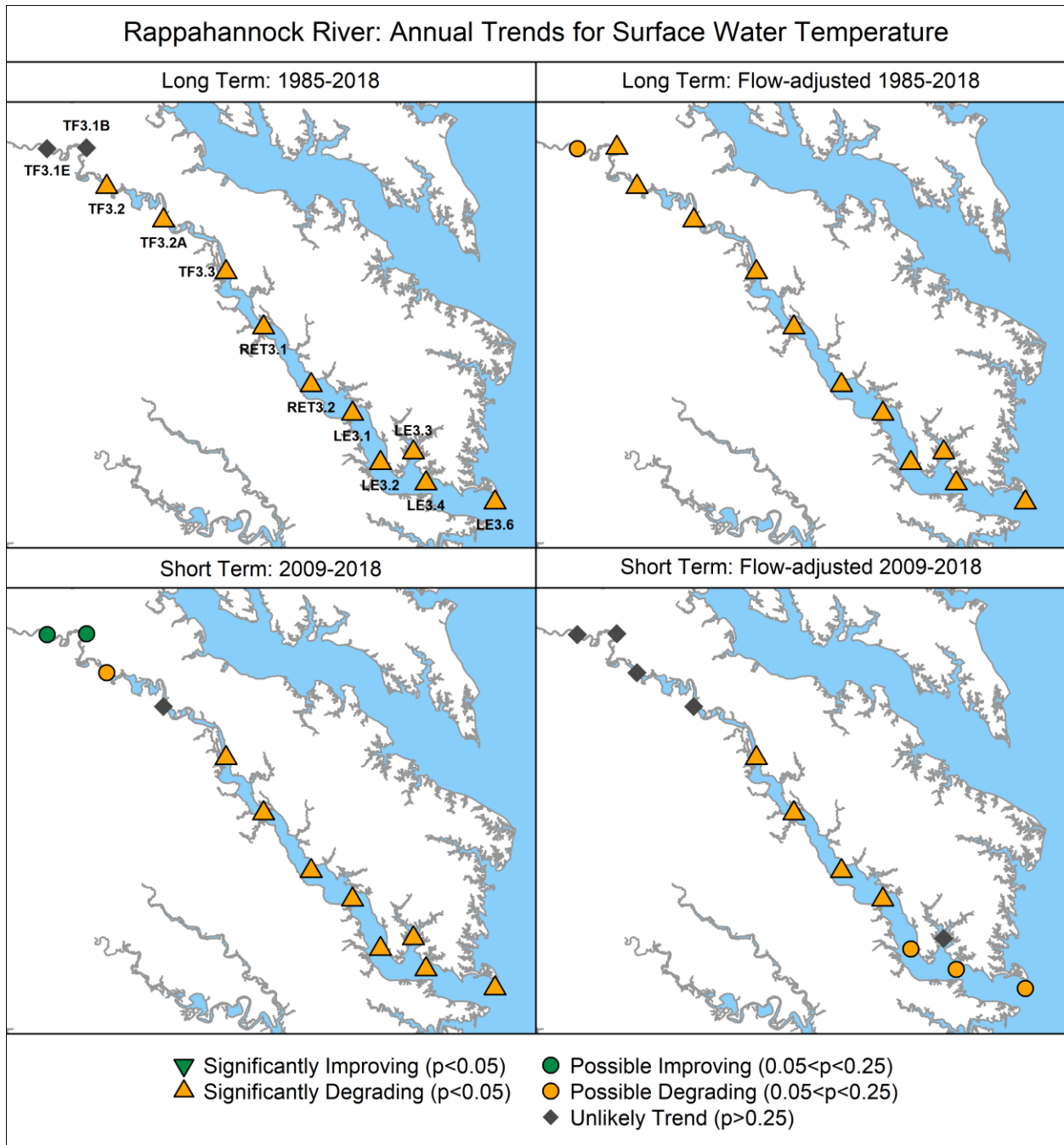
7. Surface Water Temperature

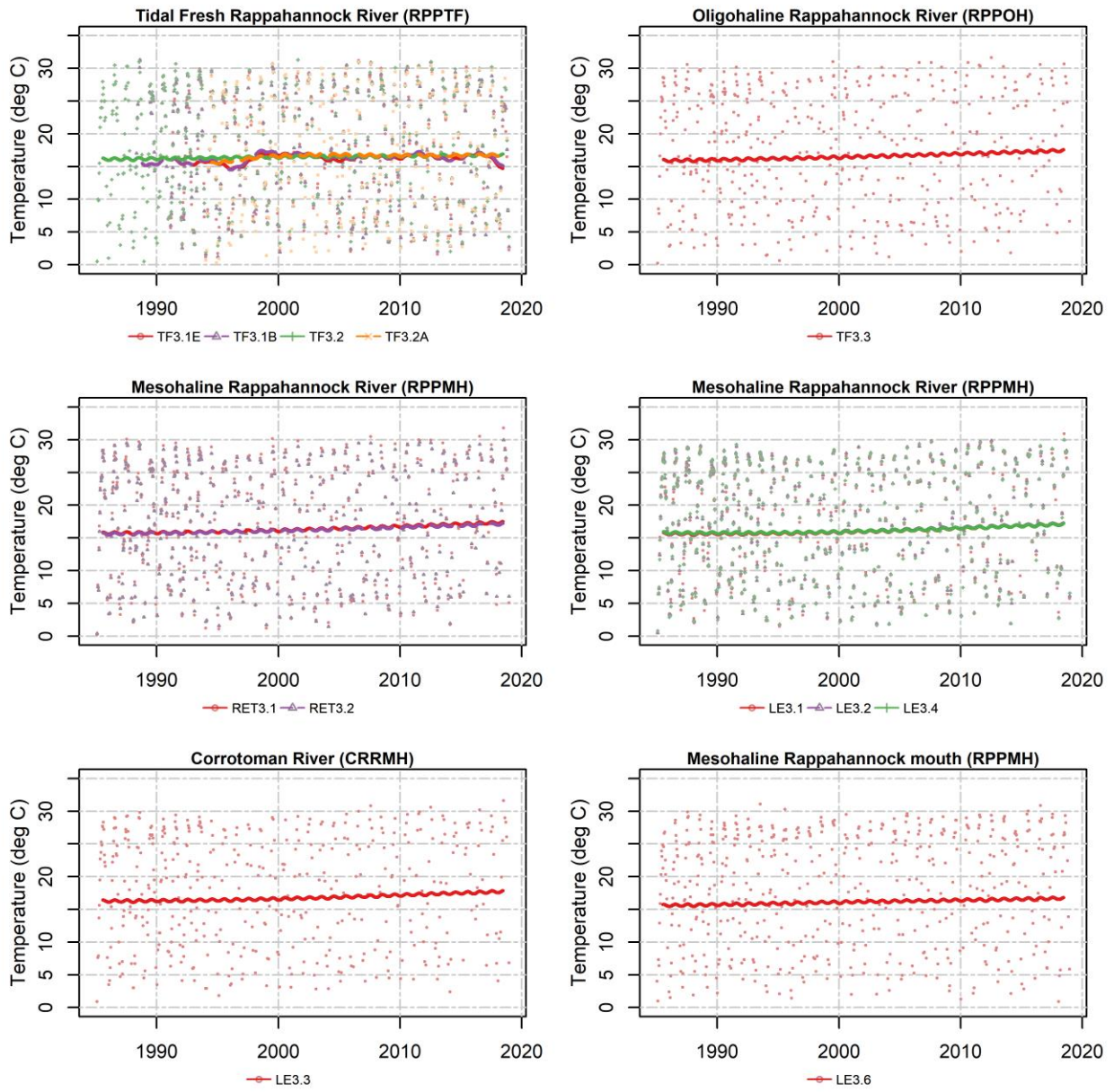Figure A-13. Surface layer water temperature trends.

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