Appendix 2B-3: High Tide Events at Coastal Structures Analysis Results

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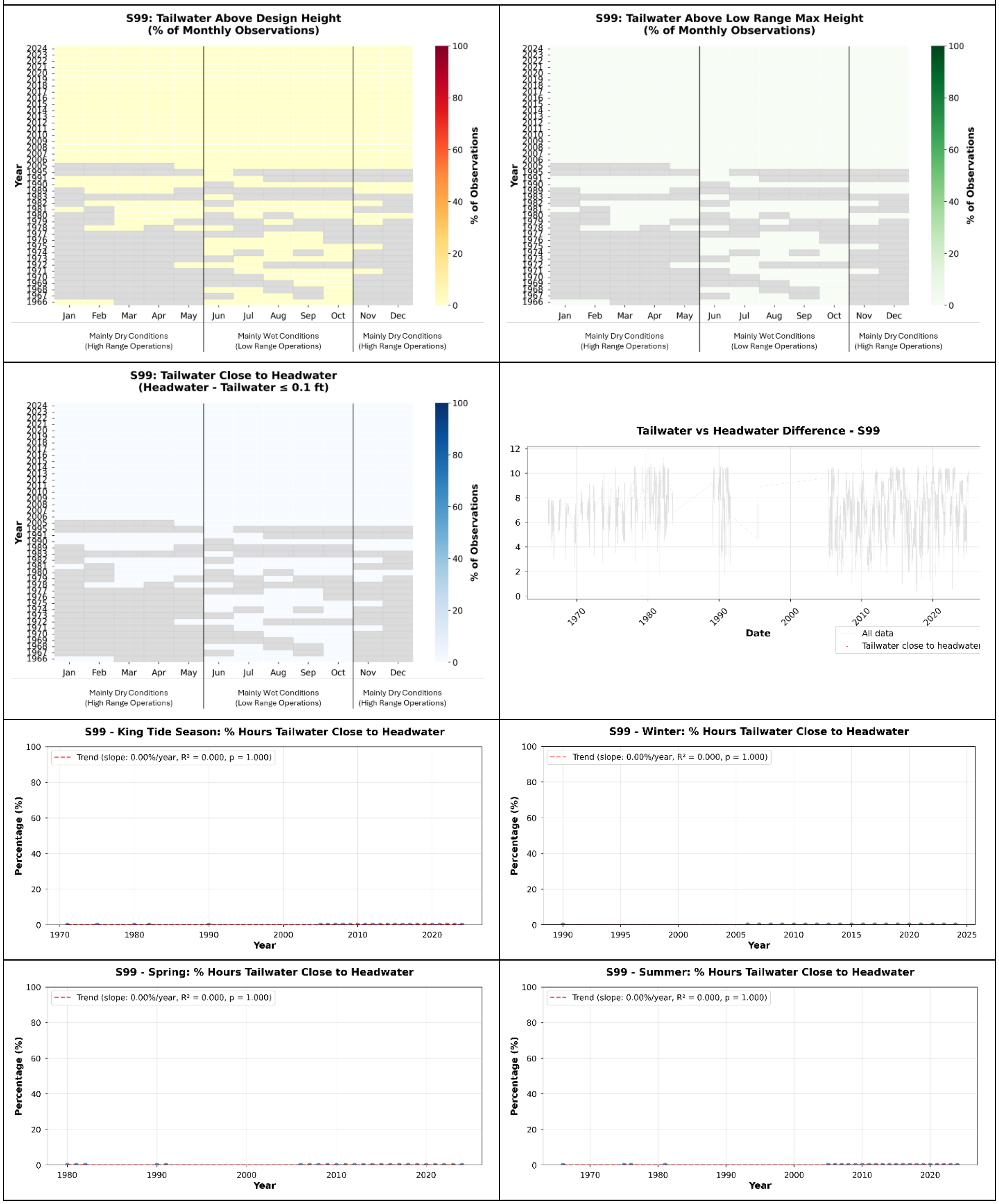
This appendix presents a panel for each of the 32 coastal structures managed by the South Florida Water Management District (SFWMD), organized by county (St. Lucie, Palm Beach, Broward, Miami-Dade, and Collier) and sorted from north to south. Each panel is summarized as described below.

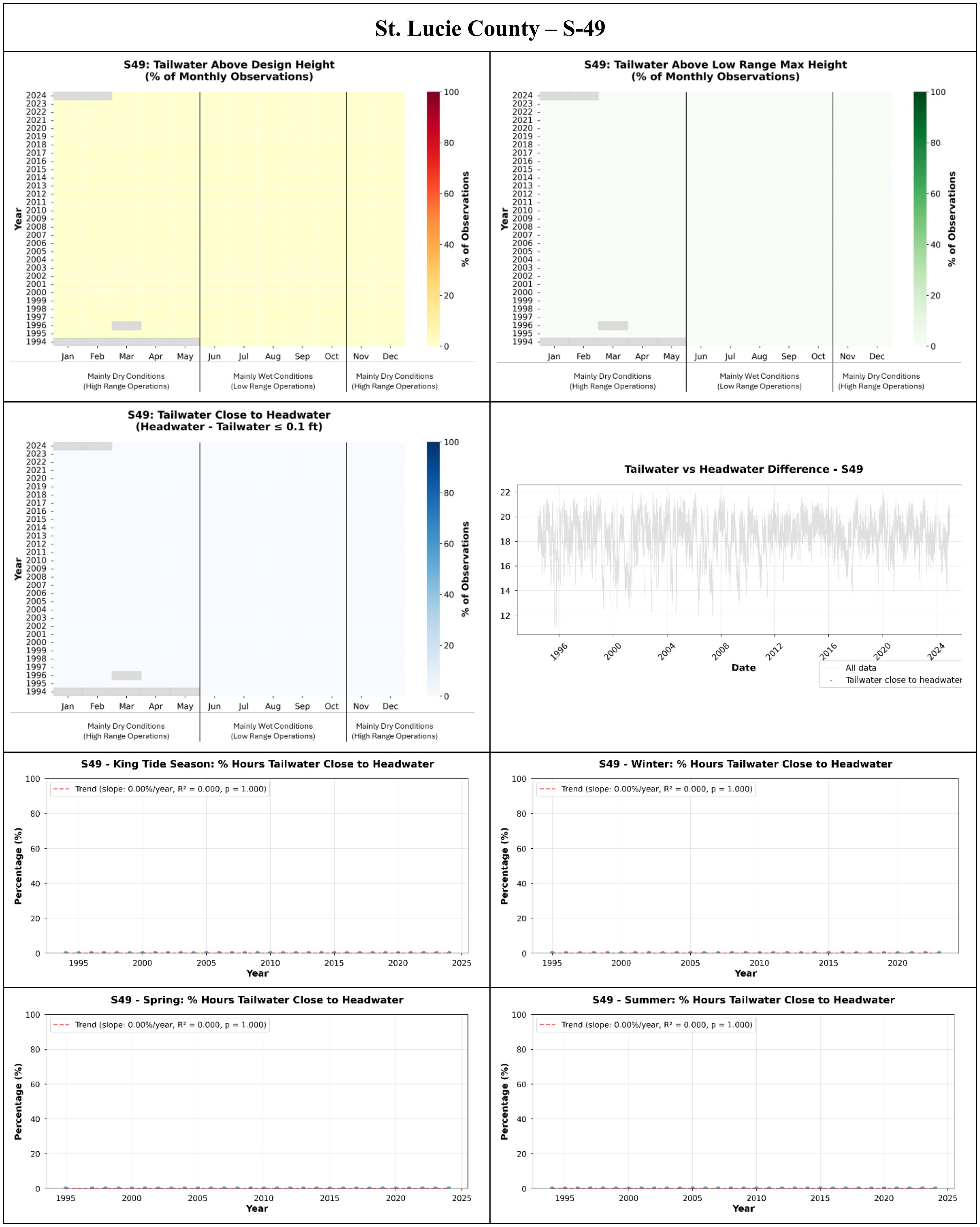
County – Structure Name	
Heatmap diagram showing the percentage of hours each month that the tailwater was above the headwater design elevation at the structure.	Heatmap diagram showing the percentage of time each month that the tailwater was above the low range maximum headwater height at the structure.
Heatmap diagram showing the percentage of hours each month that the tailwater was within 0.1 feet of (or above) the headwater at the structure.	Hourly differences between the headwater and tailwater levels at the structure. The data point is colored red if the high tide event threshold was met. Negative values indicate the tailwater was above the headwater.
Annual time series of the frequency of high tide events during king tide season (September–October–November) at the structure. A linear trend through the data points is shown in the red dashed line with its statistics shown in the upper left.	Annual time series of the frequency of high tide events during the winter season (December–January–February) at the structure. A linear trend through the data points is shown in the red dashed line with its statistics shown in the upper left.
Annual time series of the frequency of high tide events during the spring season (March–April–May) at the structure. A linear trend through the data points is shown in the red dashed line with its statistics shown in the upper left.	Annual time series of the frequency of high tide events during the summer season (June–July–August) at the structure. A linear trend through the data points is shown in the red dashed line with its statistics shown in the upper left.

[1] Works under contract with the South Florida Water Management District, West Palm Beach, Florida.
[2] Project partner at the University of Miami, Coral Gables, Florida.

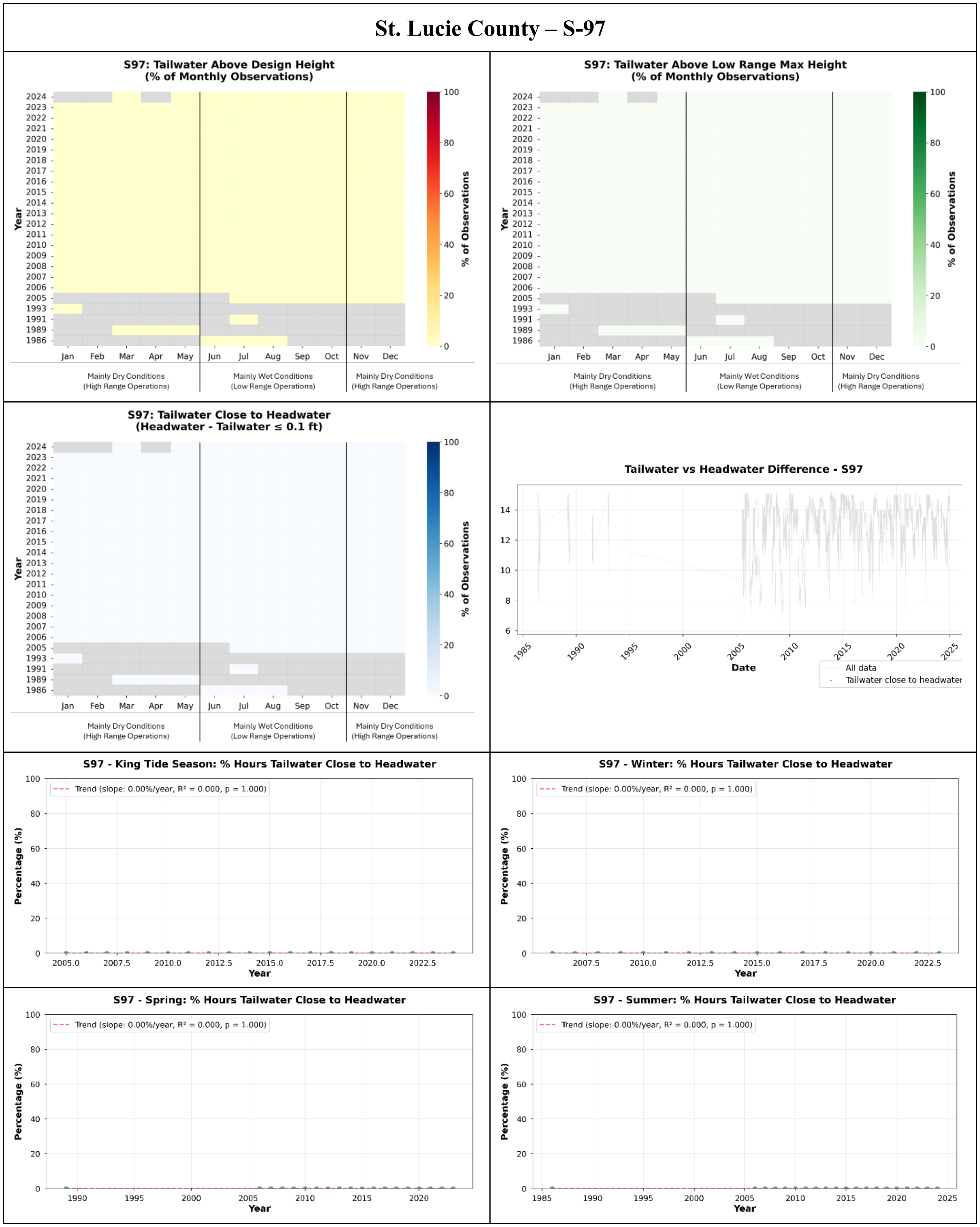
St. Lucie County – S-99



Panel 1. Structure S-99.

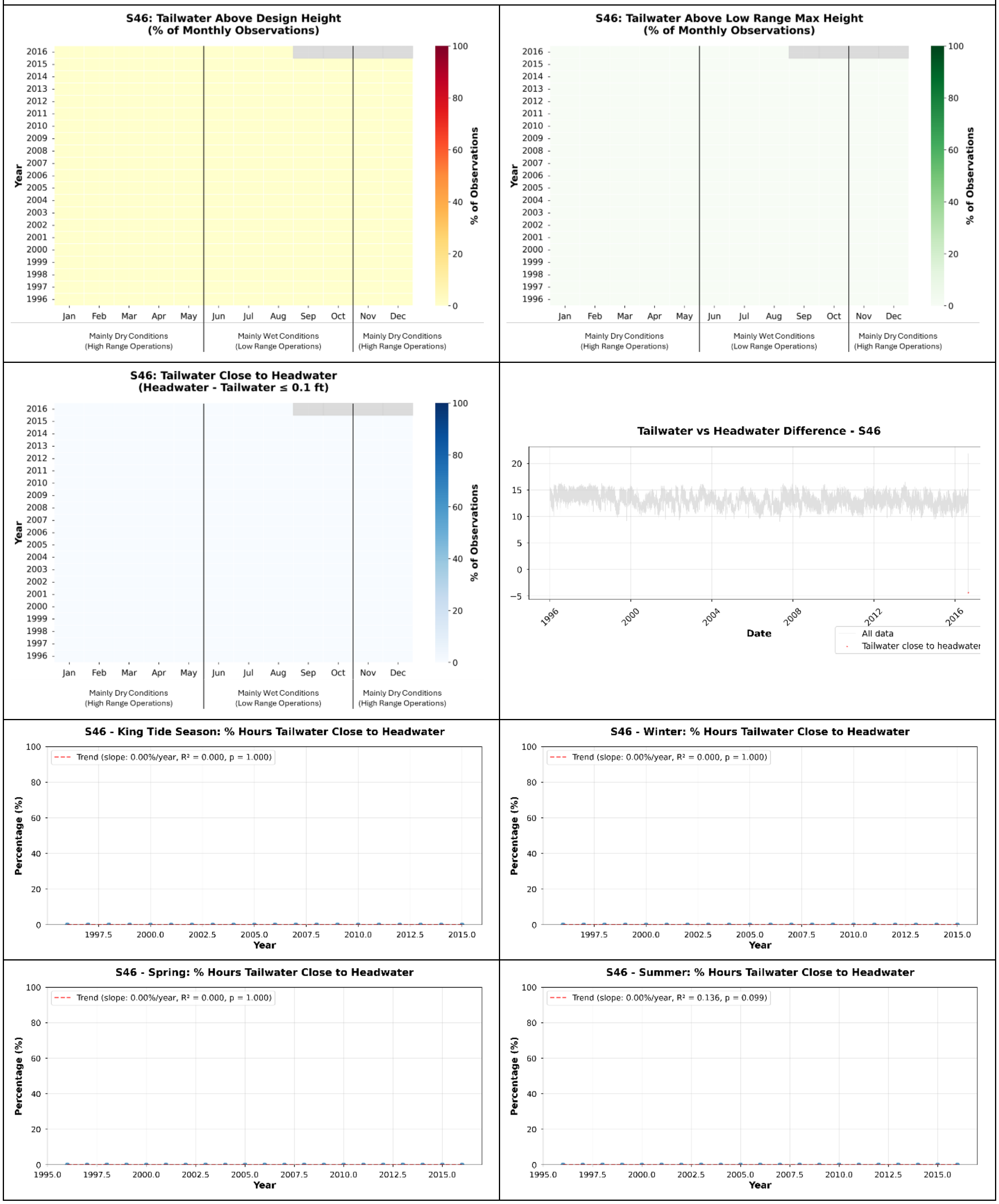


Panel 2. Structure S-49.



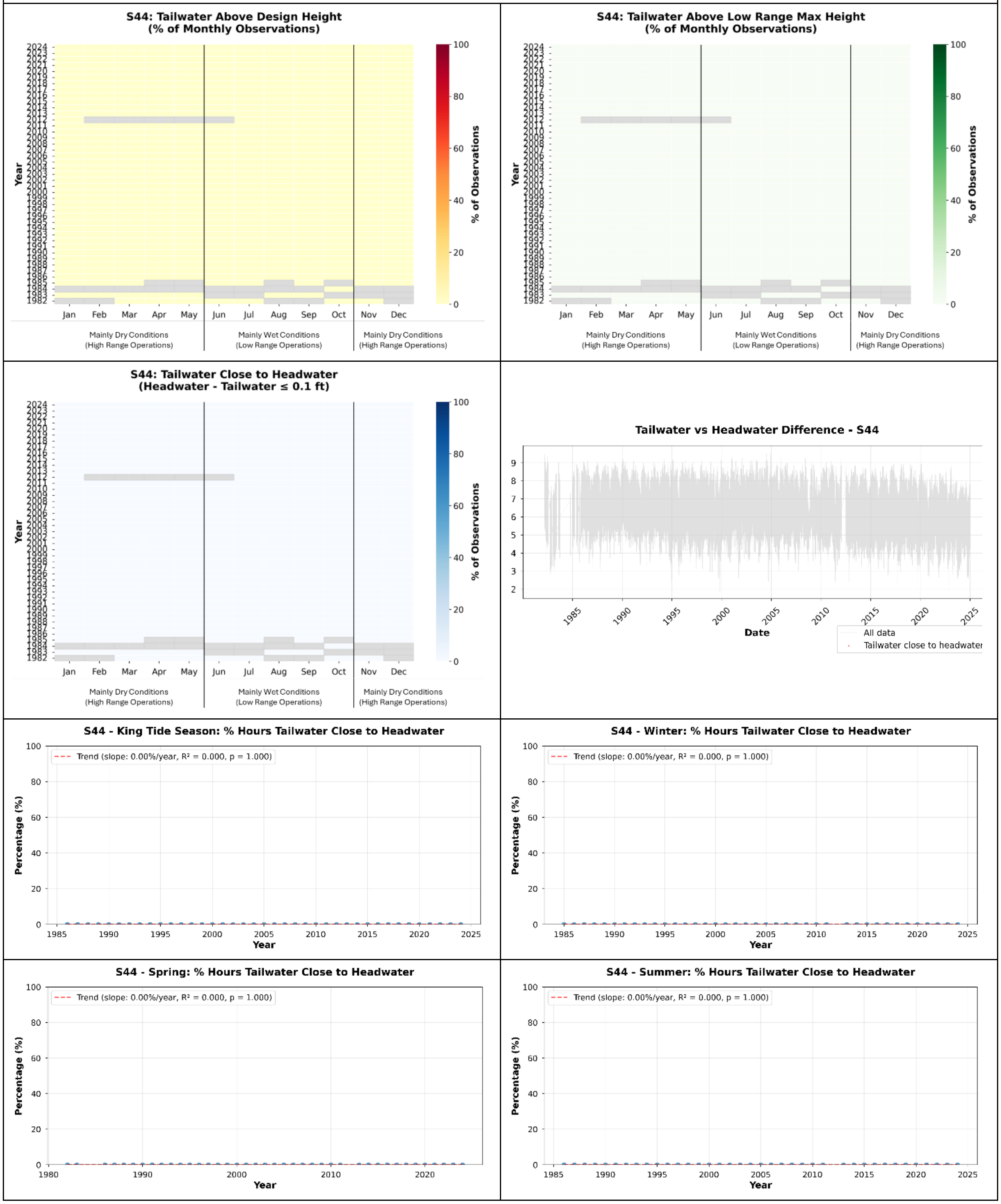
Panel 3. Structure S-97.

Palm Beach County – S-46

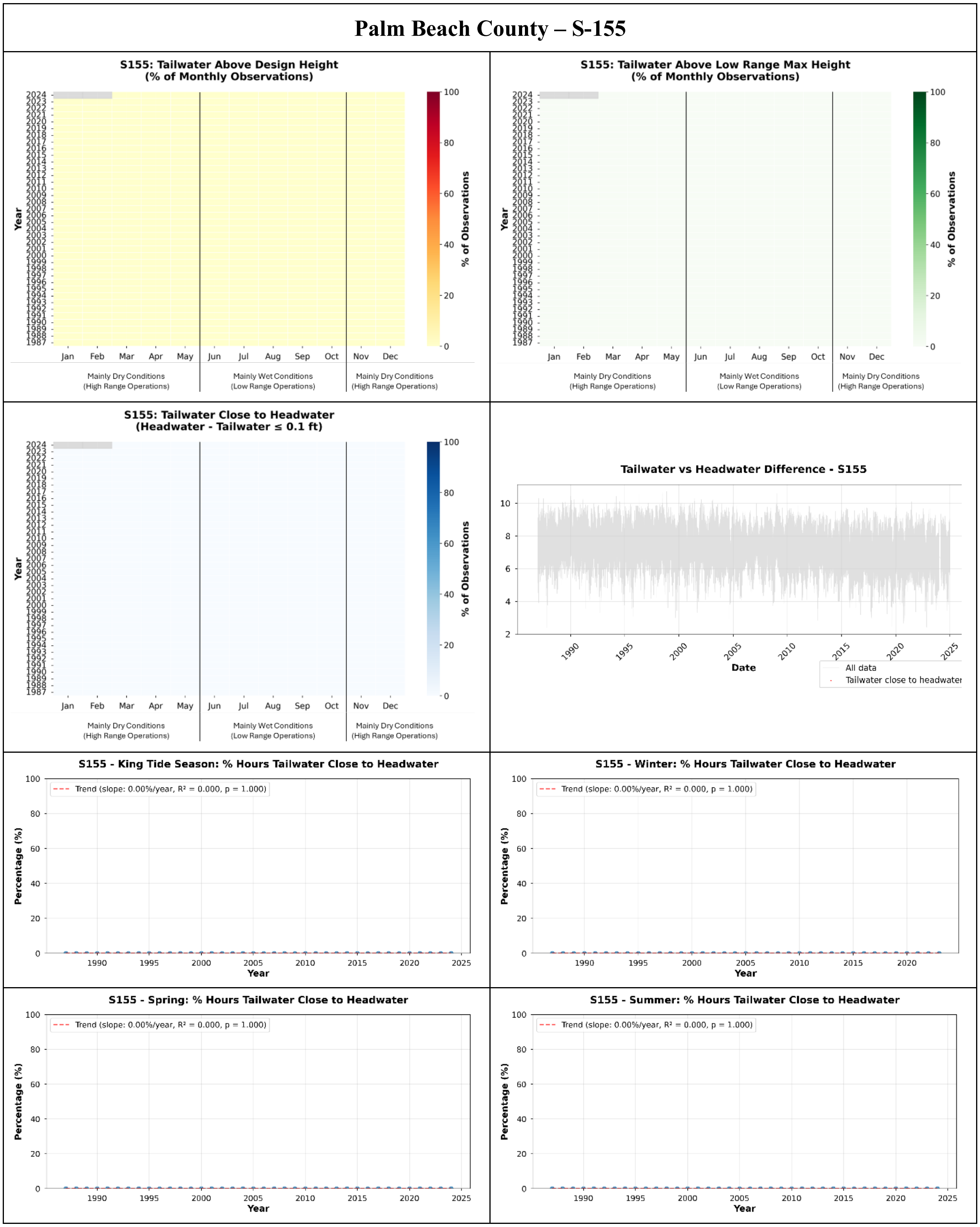


Panel 4. Structure S-46.

Palm Beach County – S-44

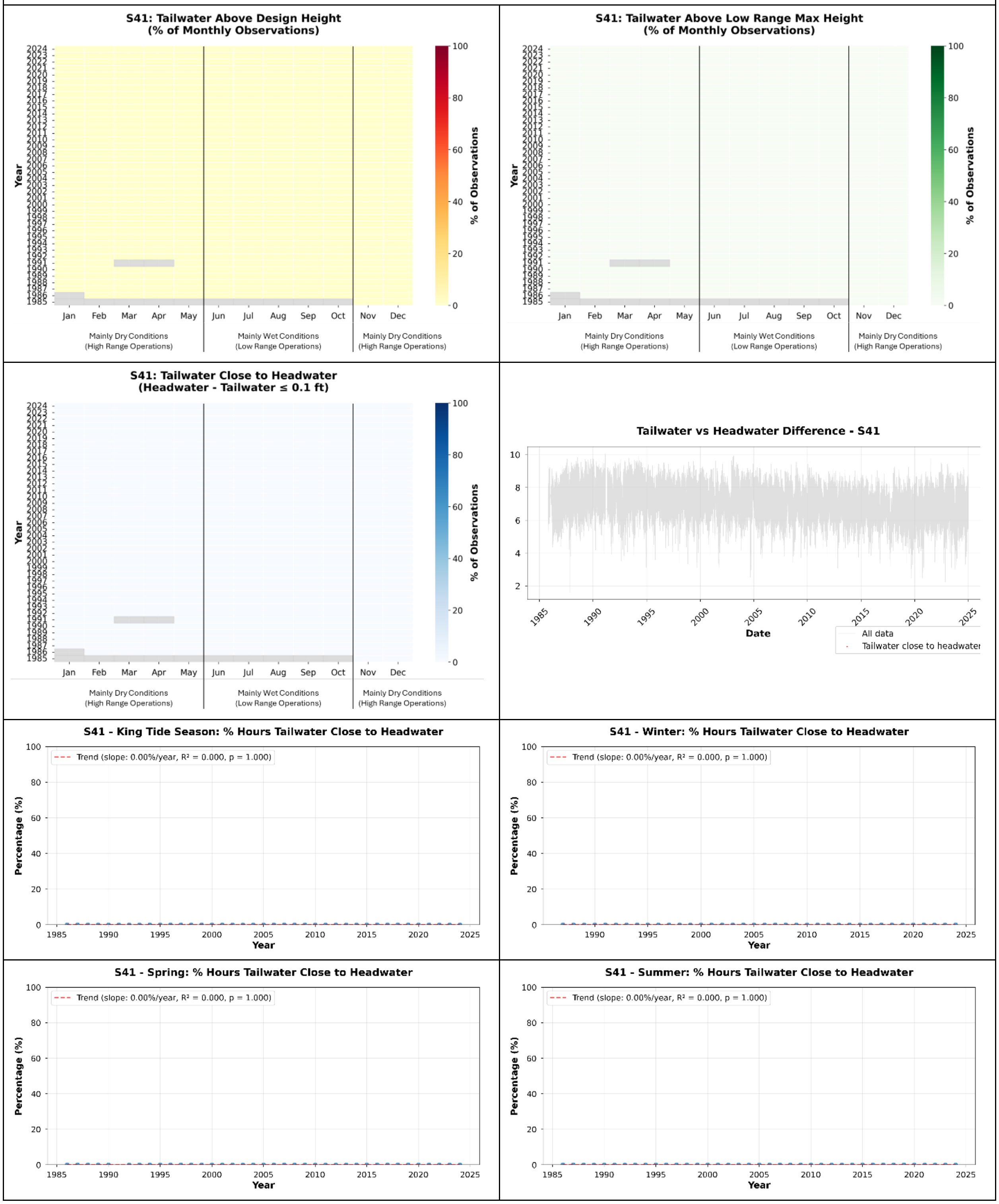


Panel 5. Structure S-44.



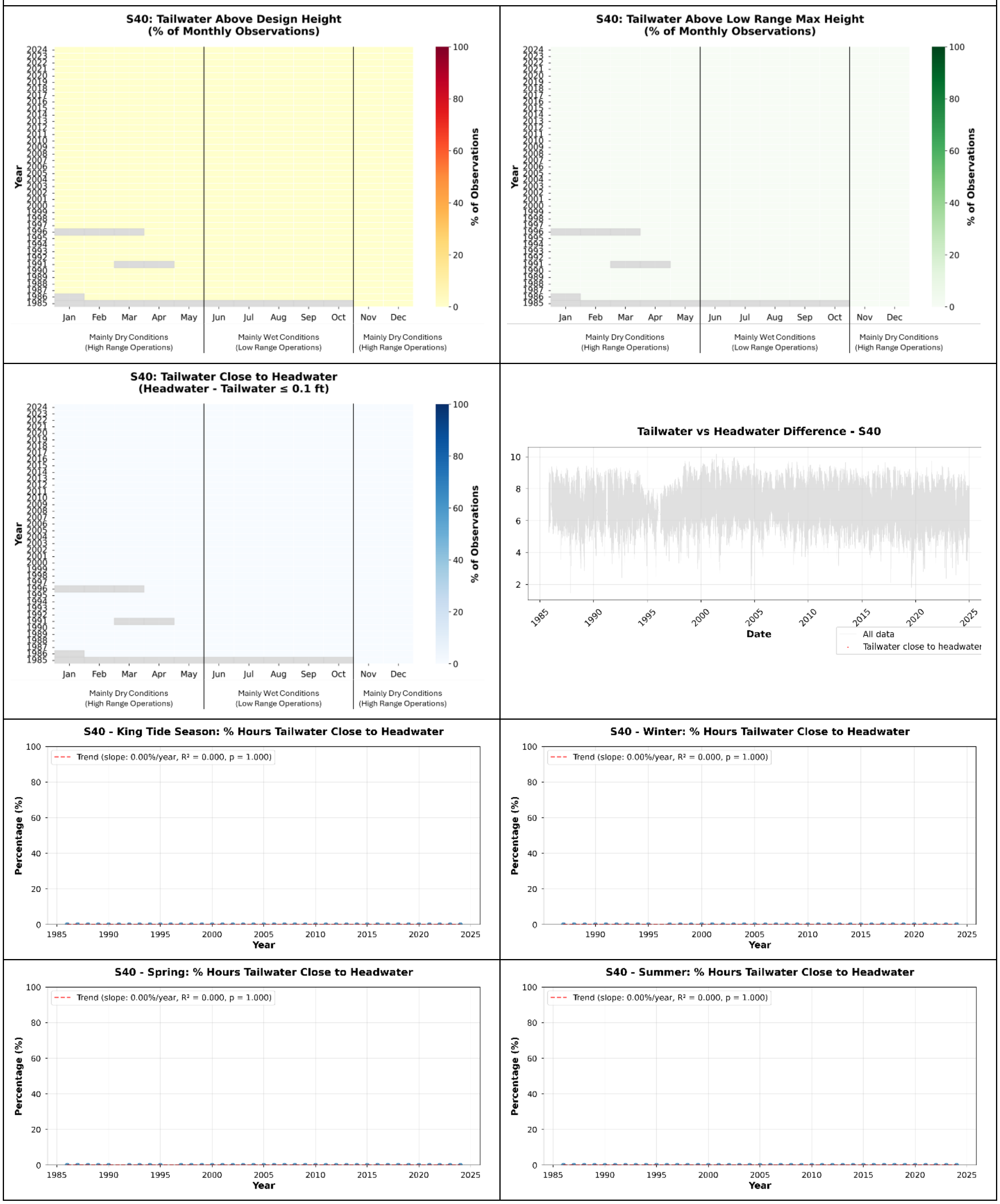
Panel 6. Structure S-155.

Palm Beach County – S-41



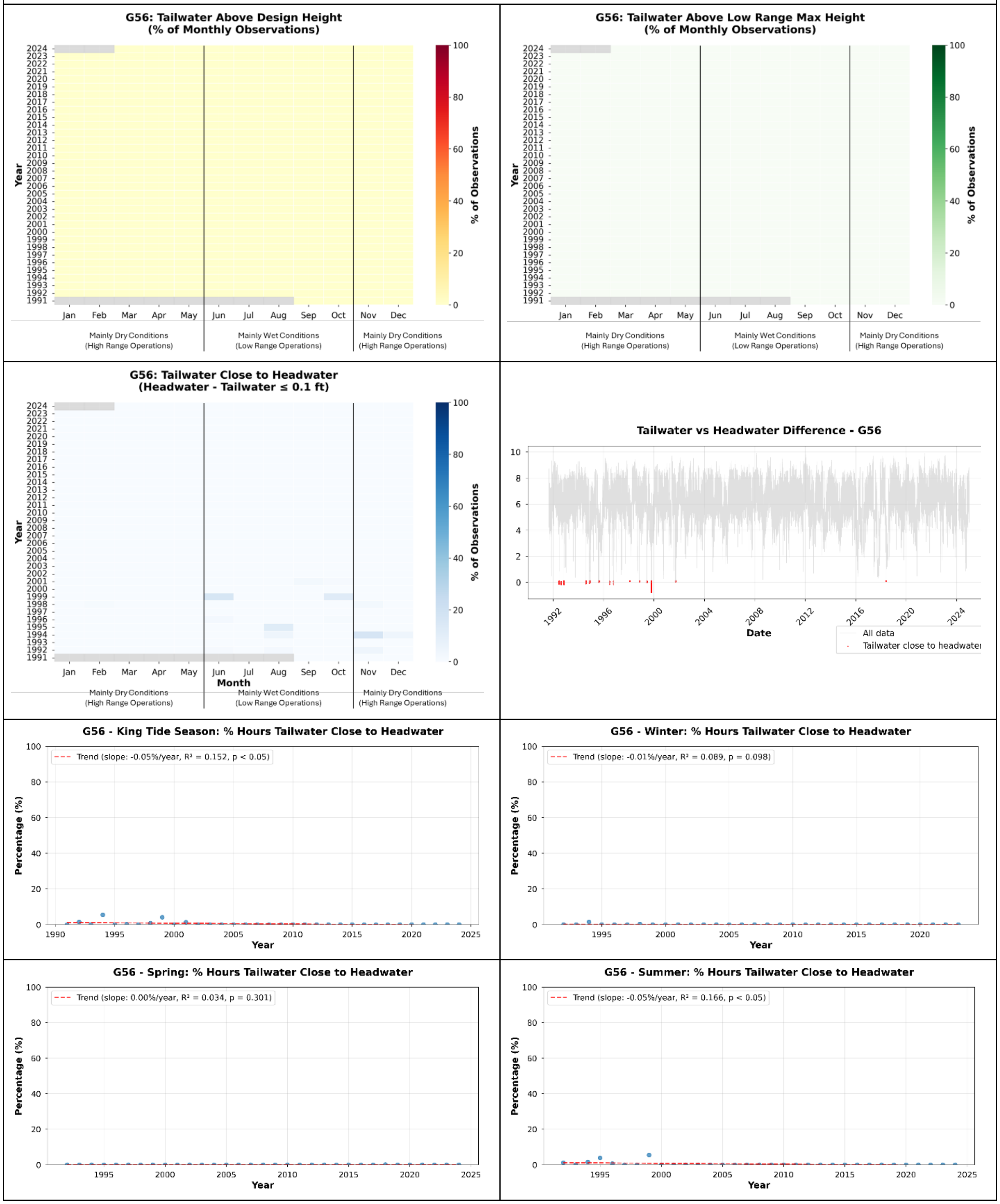
Panel 7. Structure S-41.

Palm Beach County – S-40



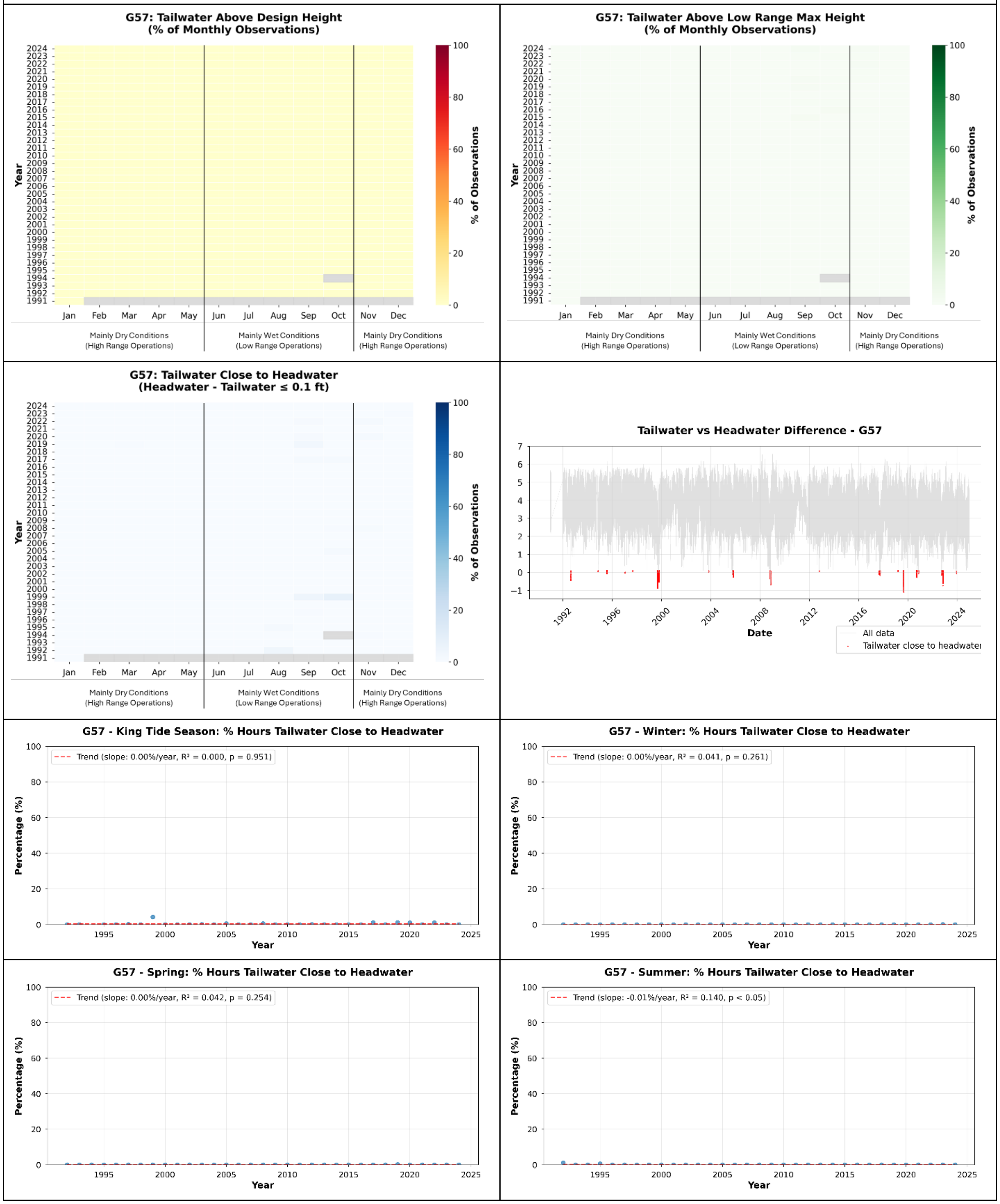
Panel 8. Structure S-40.

Broward County – G-56



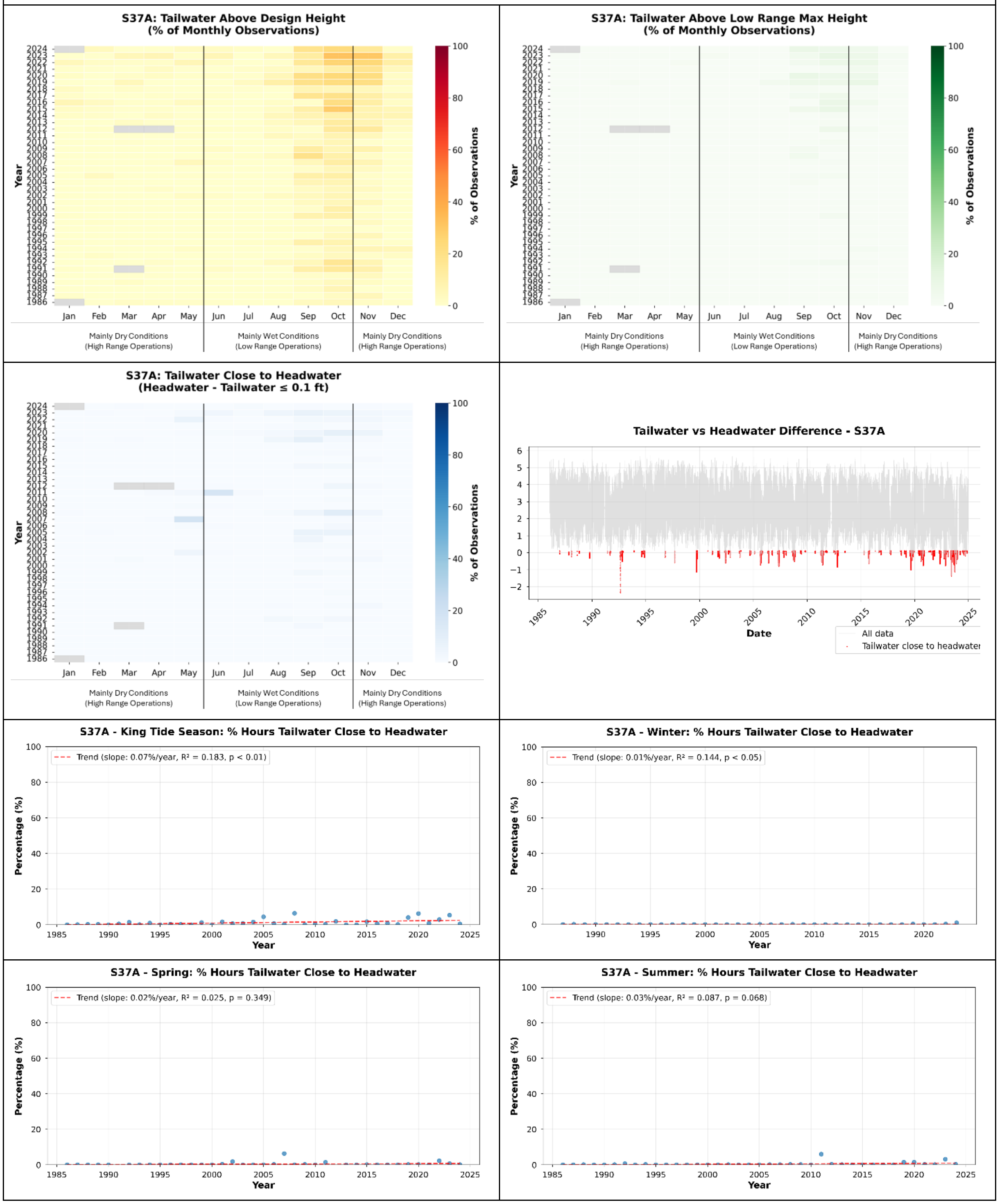
Panel 9. Structure G-56.

Broward County – G-57



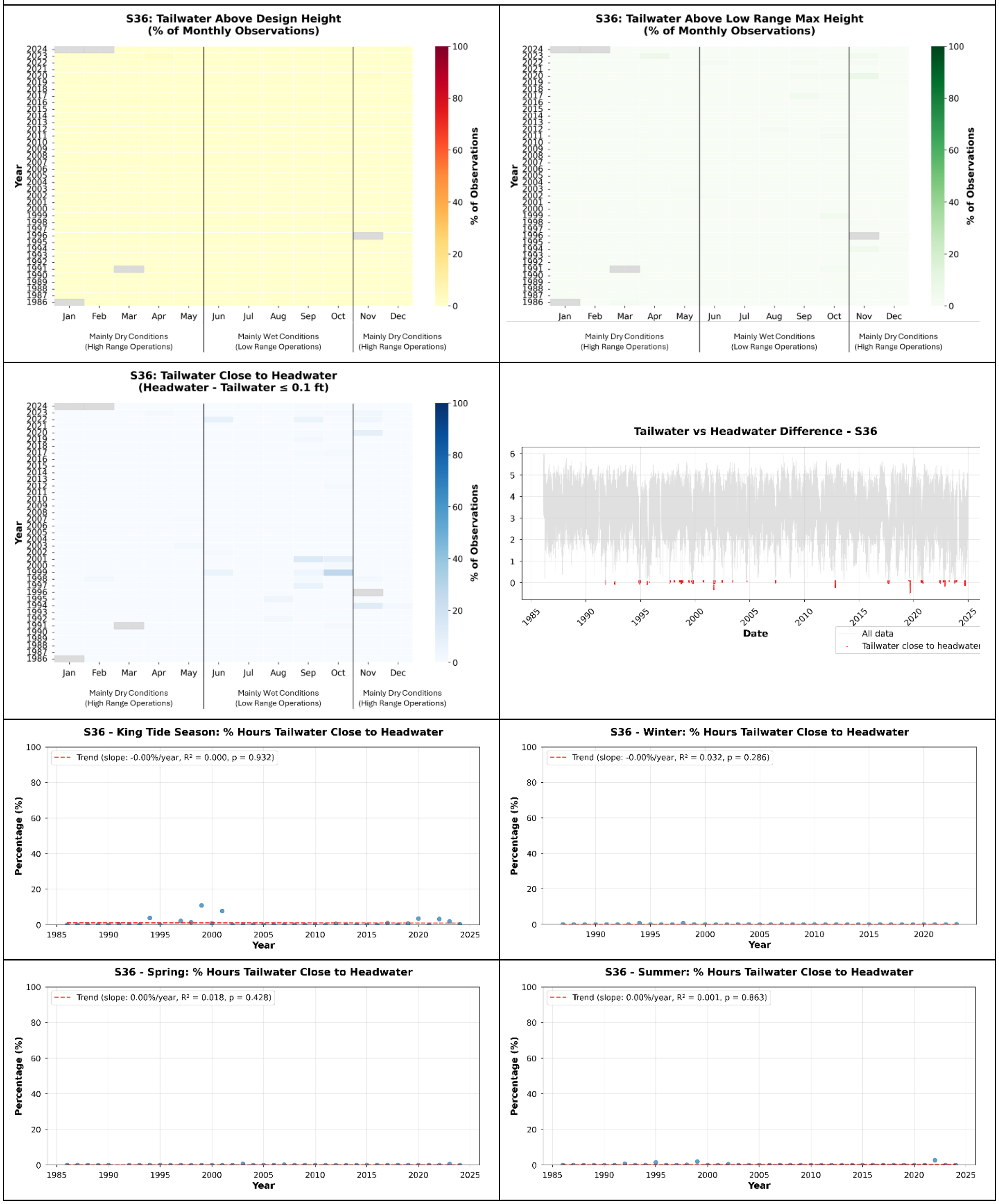
Panel 10. Structure G-57.

Broward County – S-37A



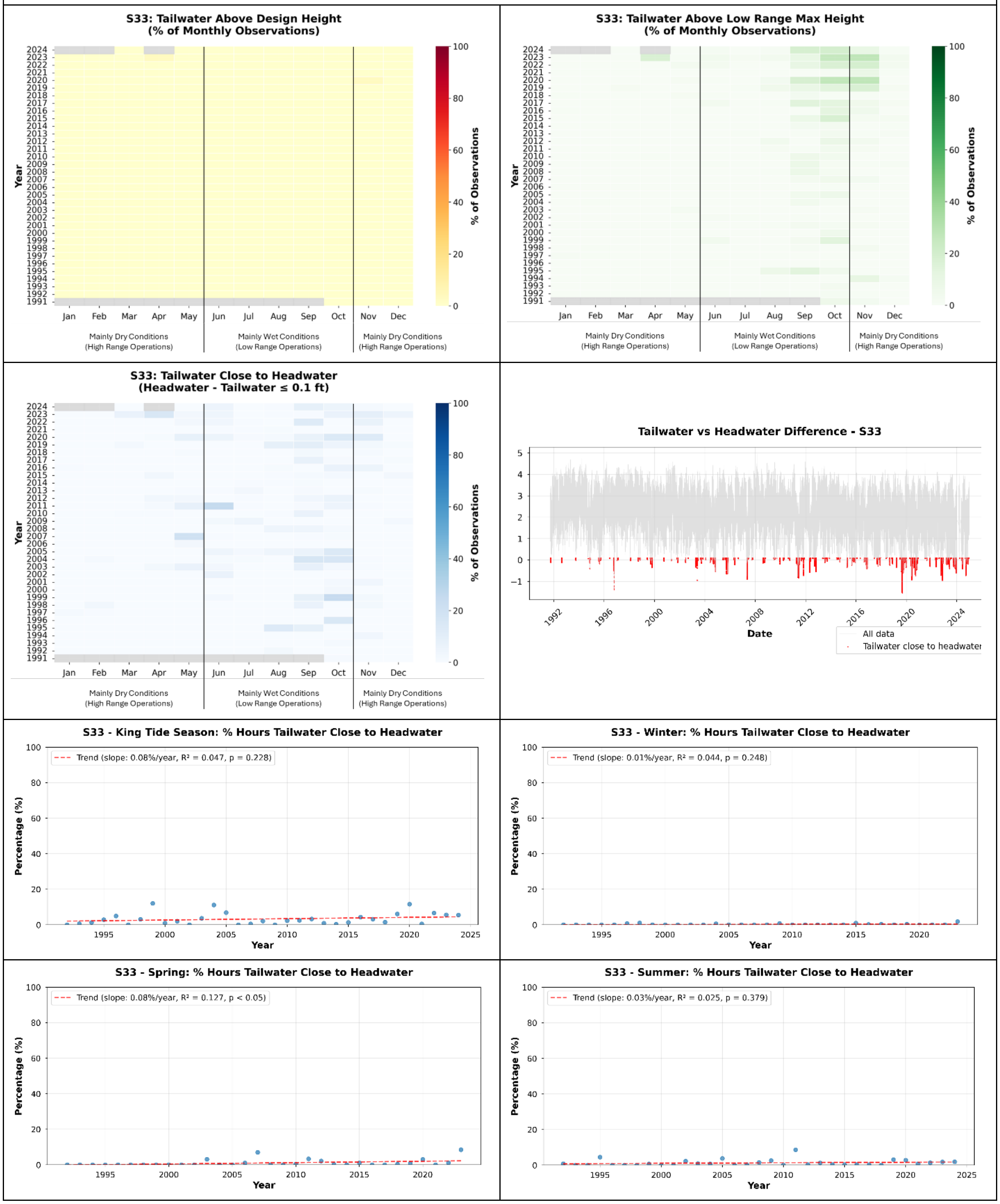
Panel 11. Structure S-37A.

Broward County – S-36



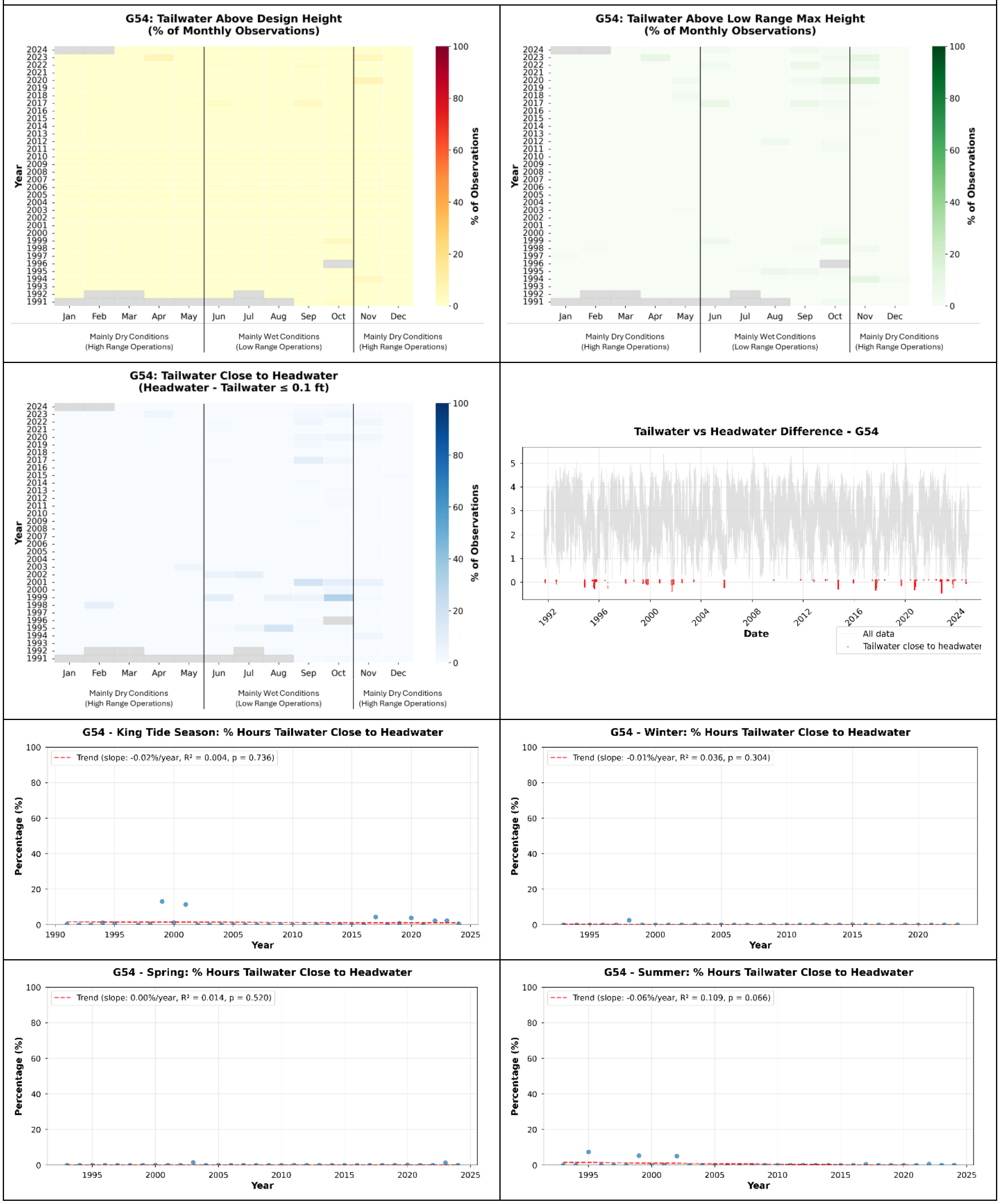
Panel 12. Structure S-36.

Broward County – S-33



Panel 13. Structure S-33.

Broward County – G-54



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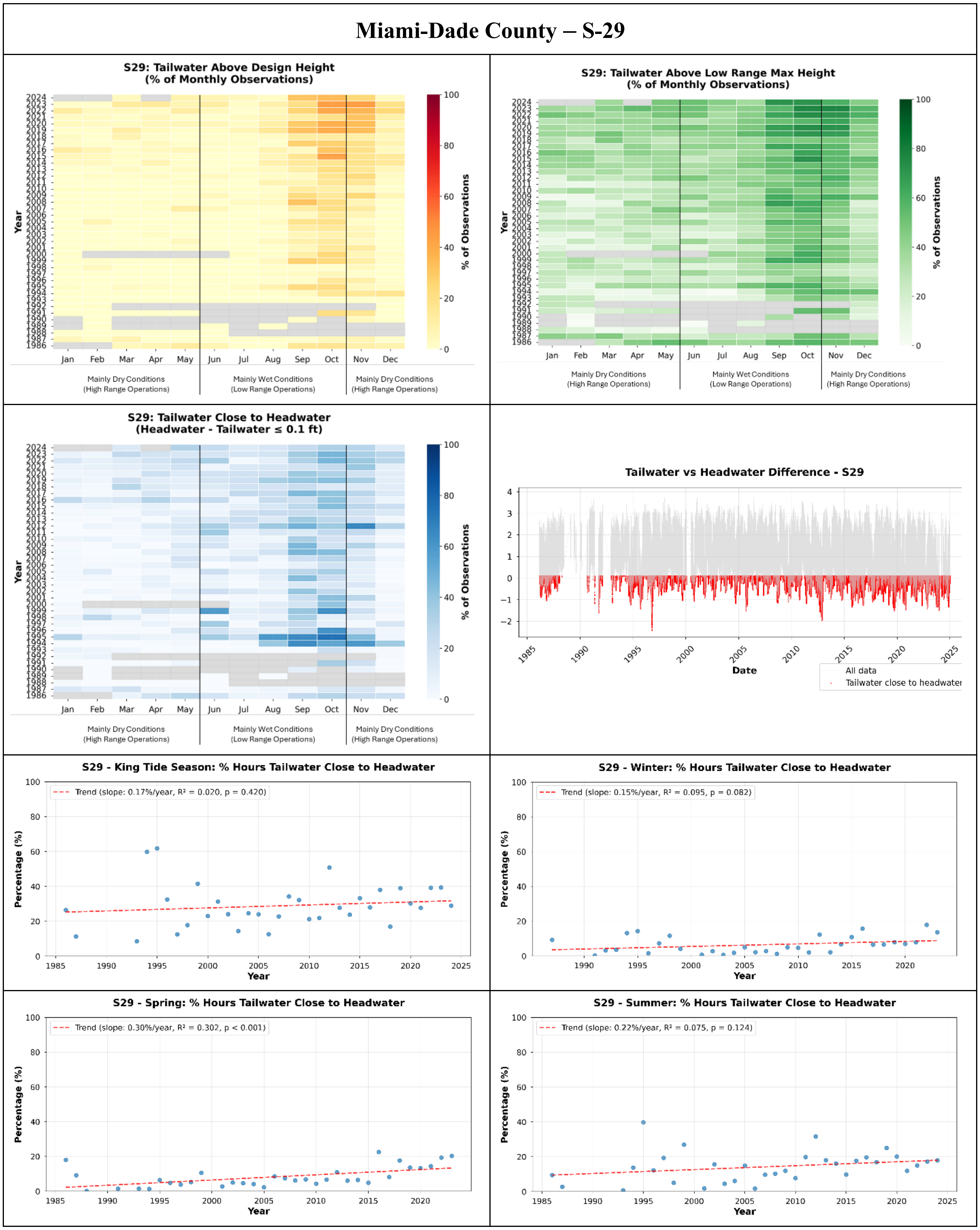
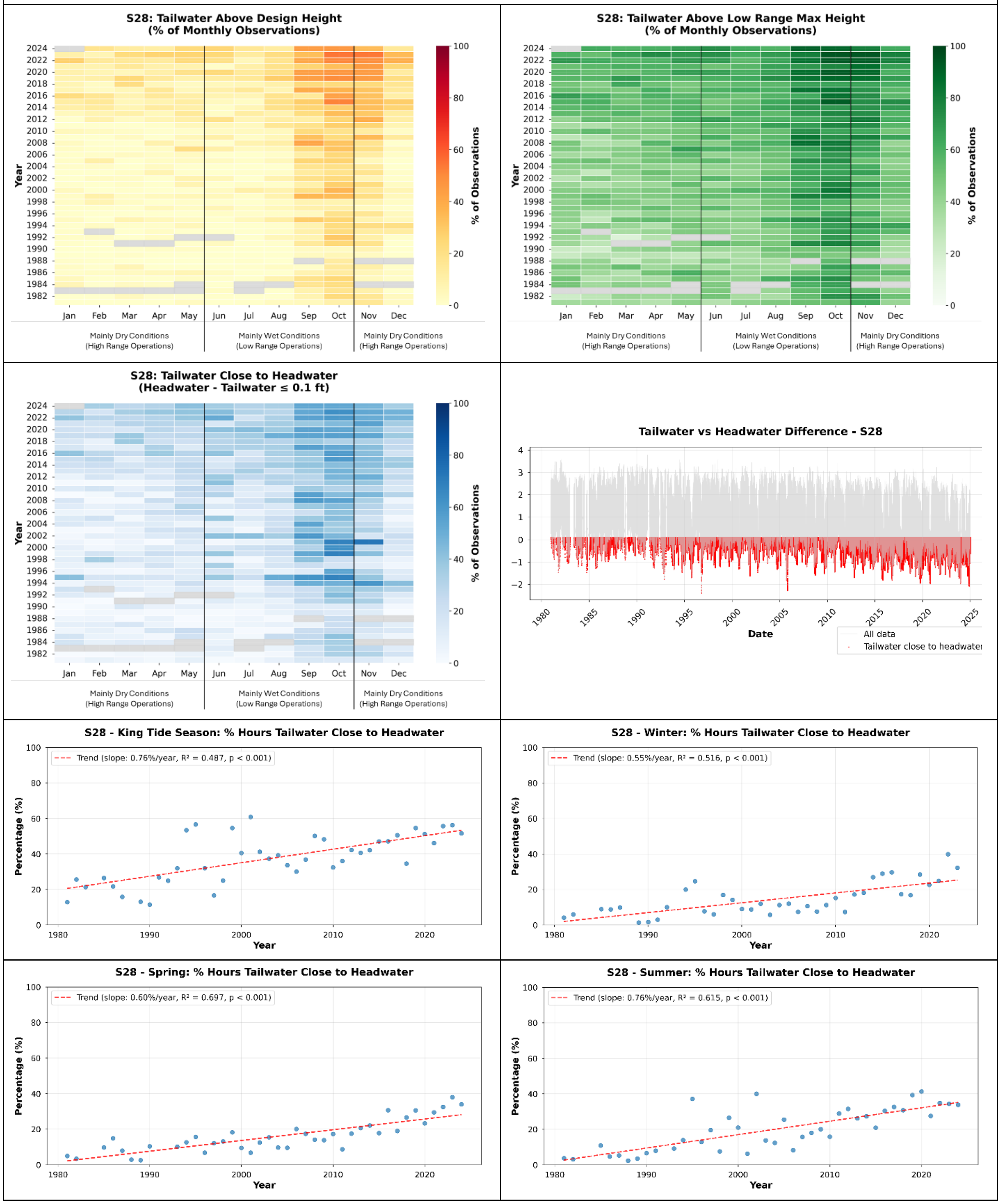


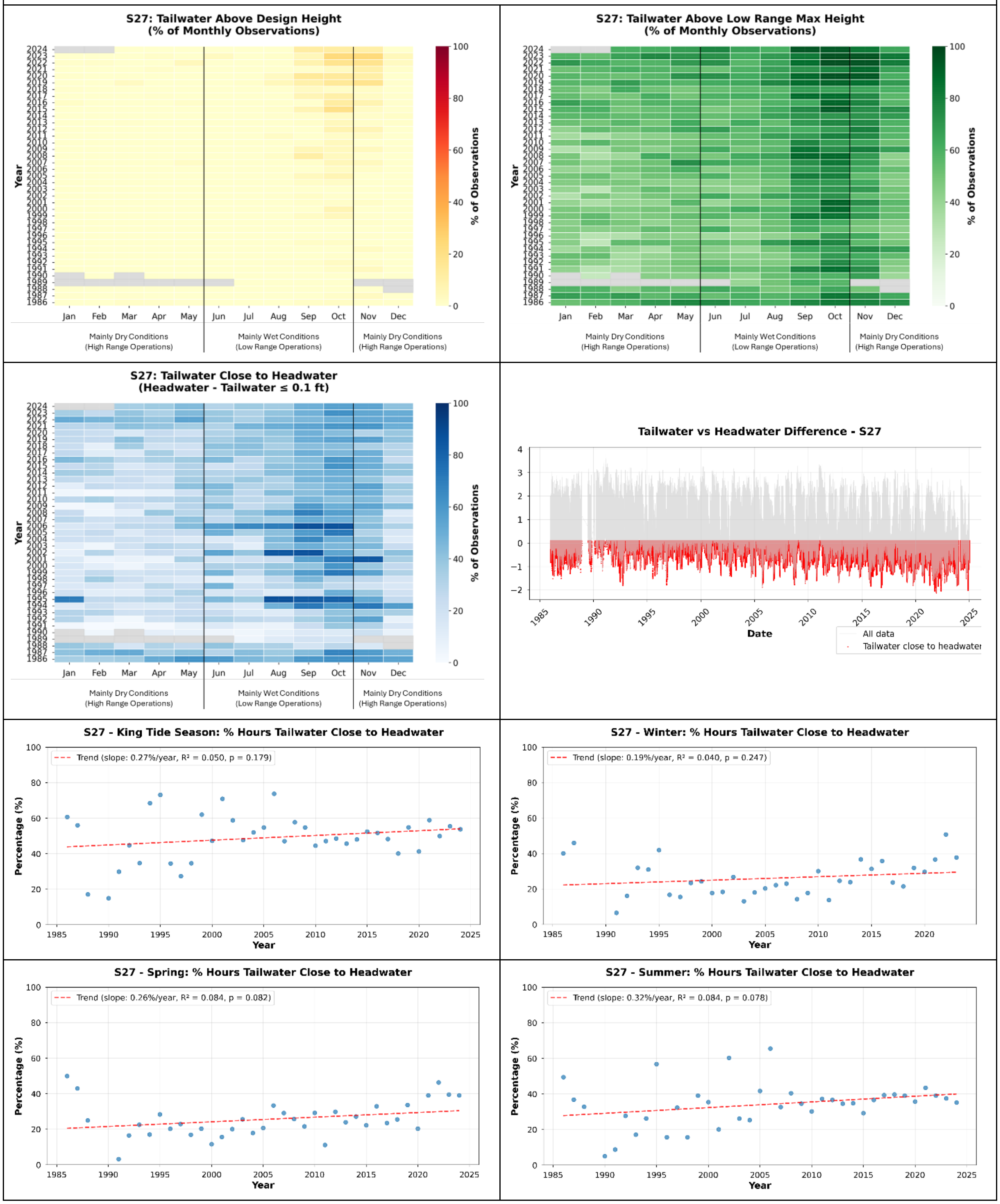
Panel 15. Structure S-29.

Miami-Dade County – S-28



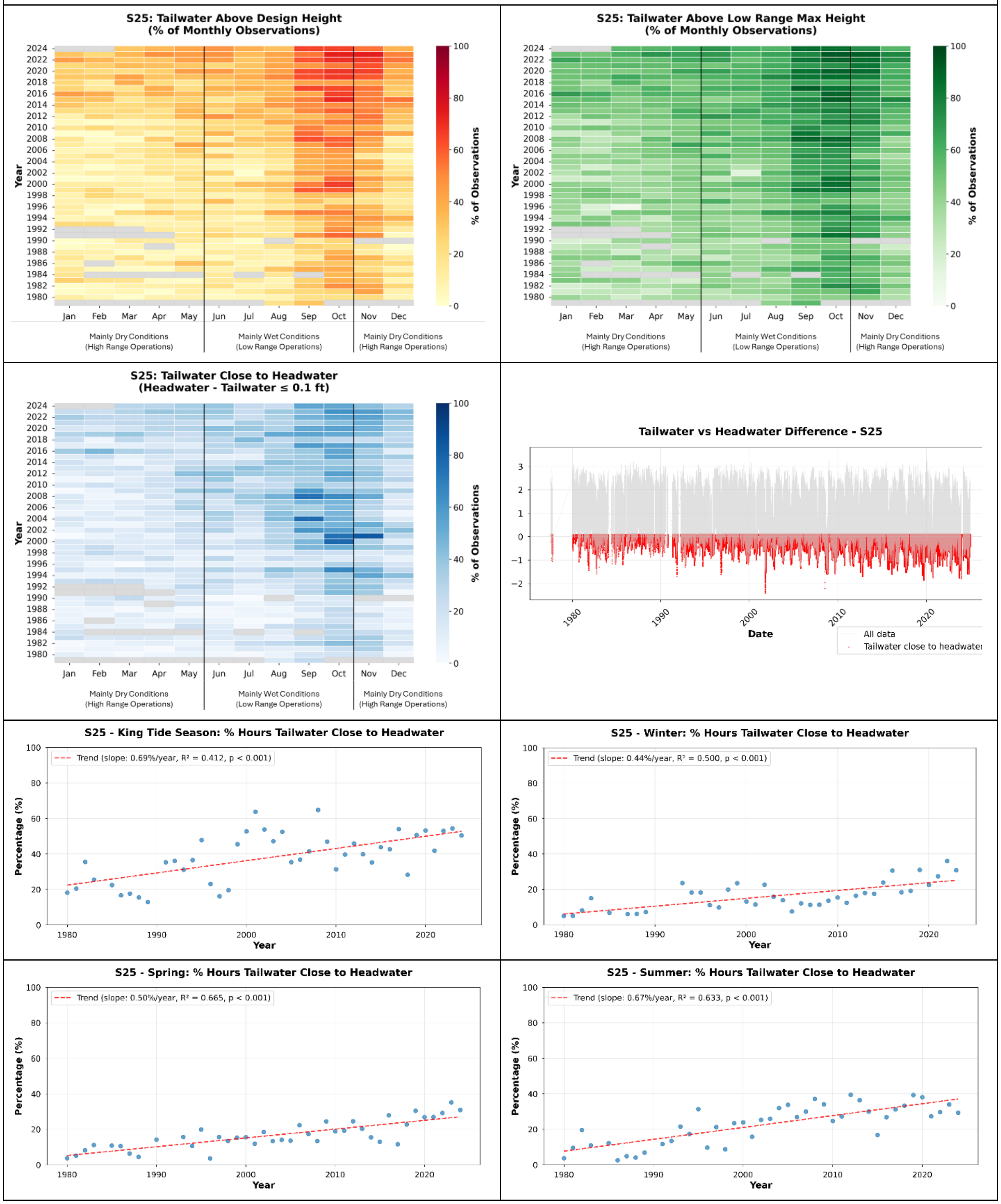
Panel 16. Structure S-28.

Miami-Dade County – S-27



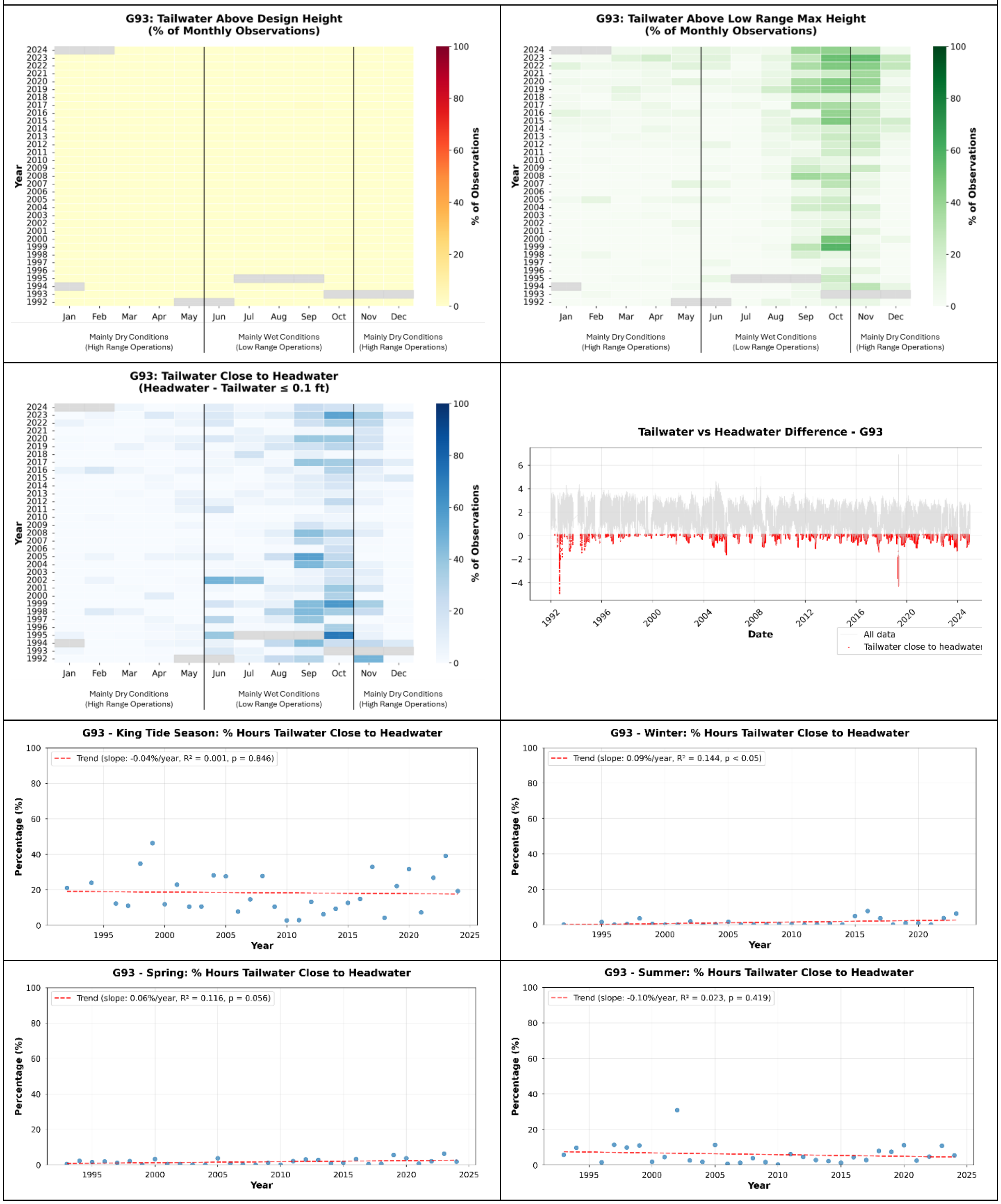
Panel 17. Structure S-27.

Miami-Dade County – S-25



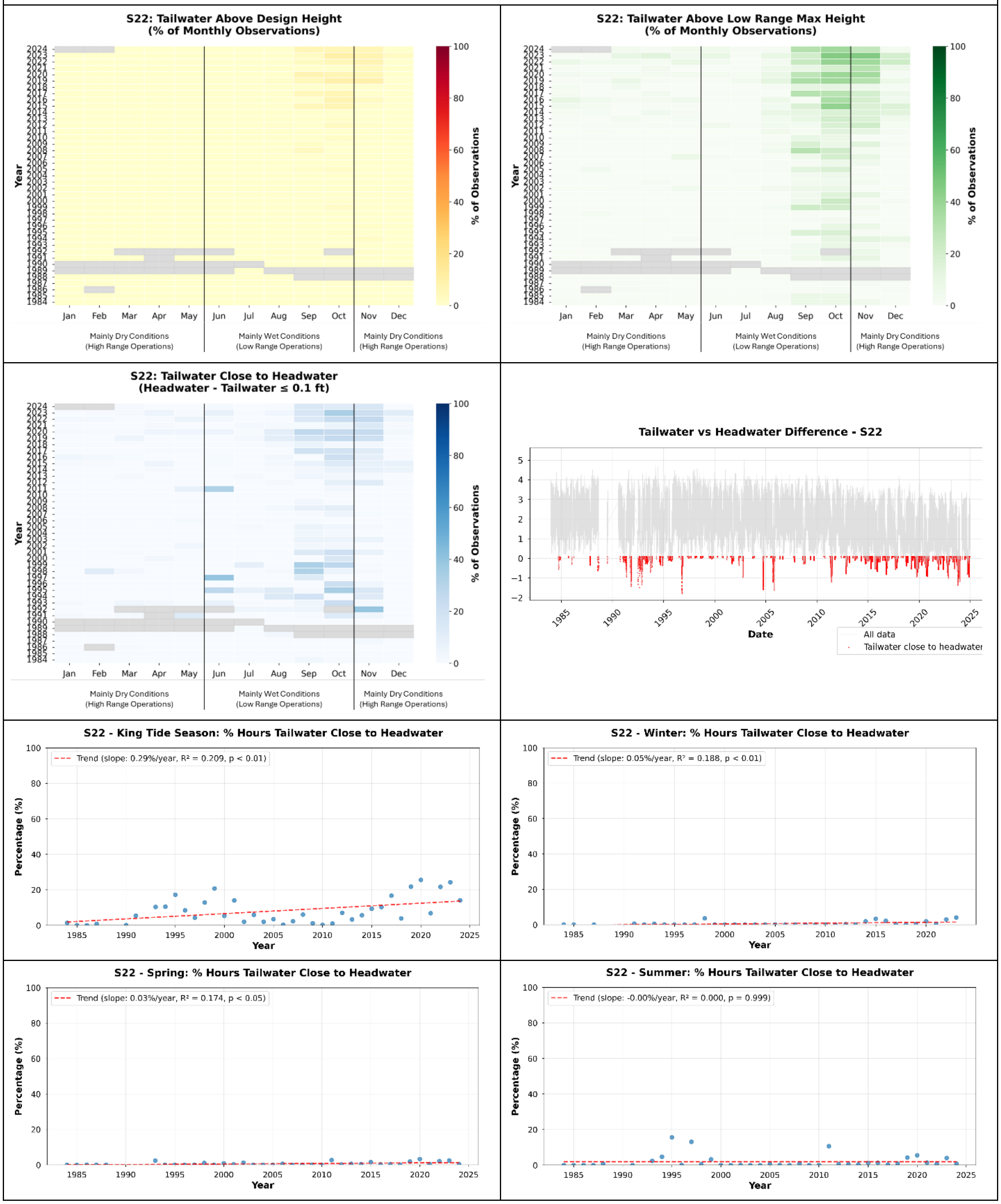
Panel 18. Structure S-25.

Miami-Dade County – G-93



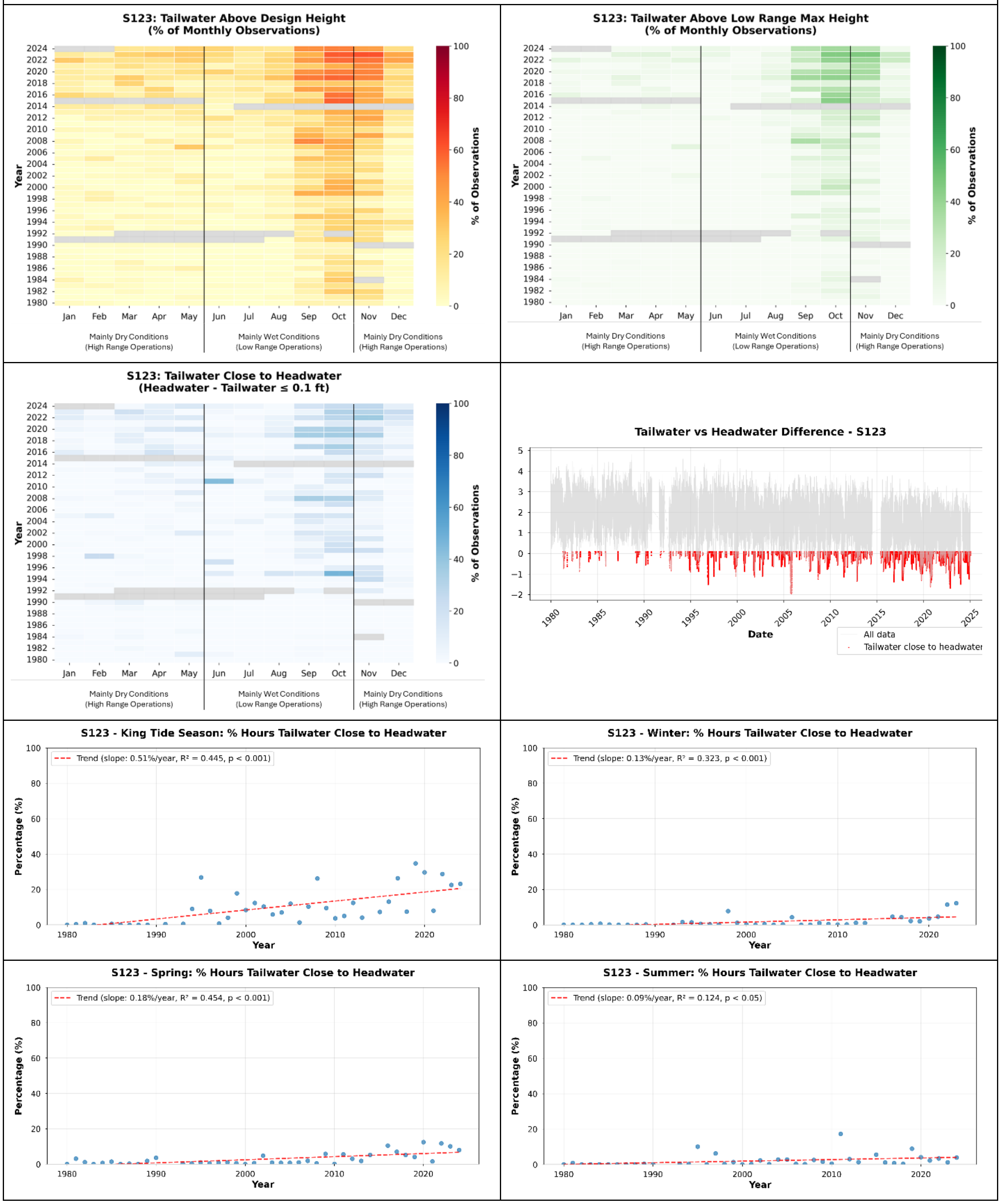
Panel 19. Structure G-93.

Miami-Dade County – S-22



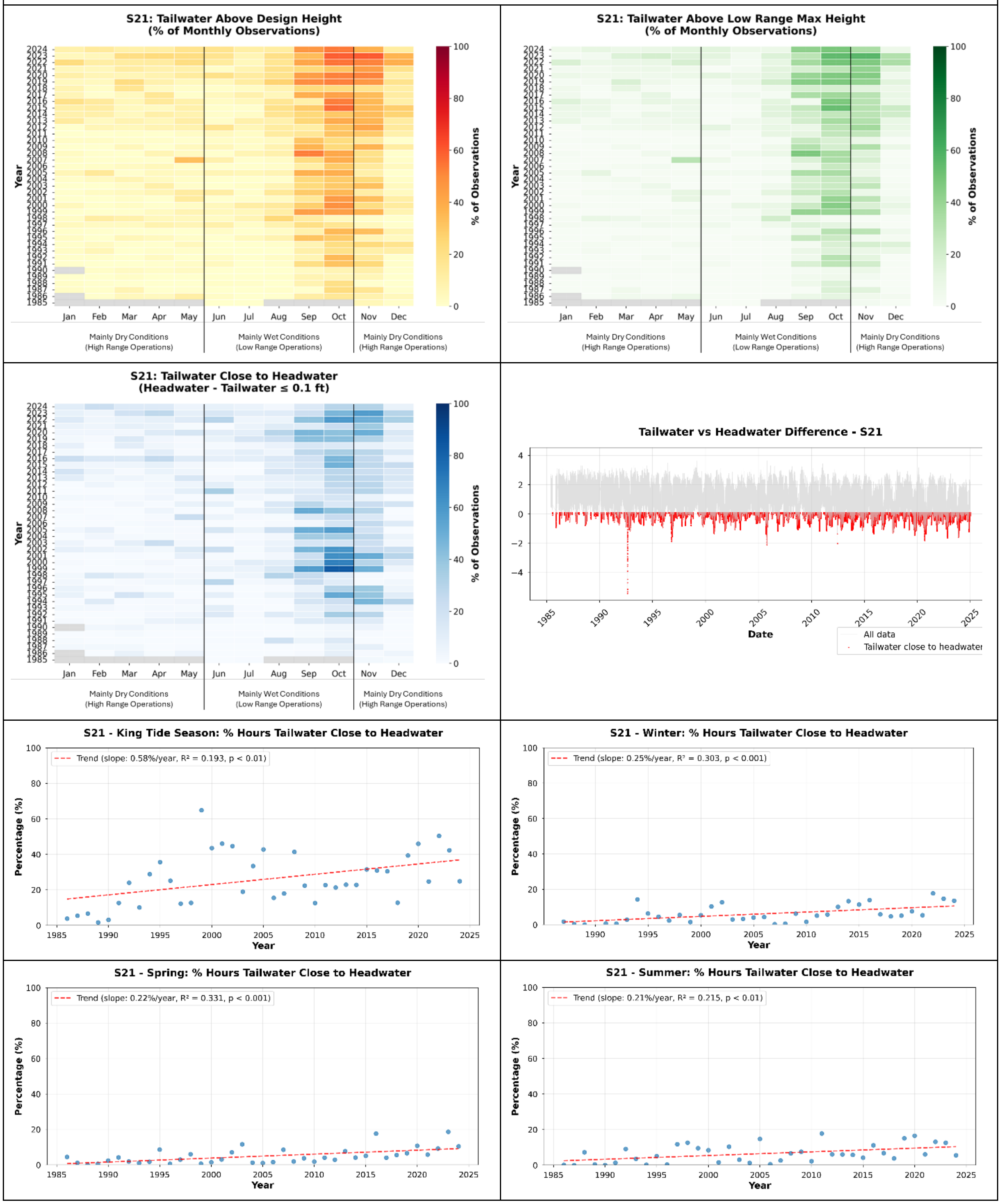
Panel 20. Structure S-22.

Miami-Dade County – S-123



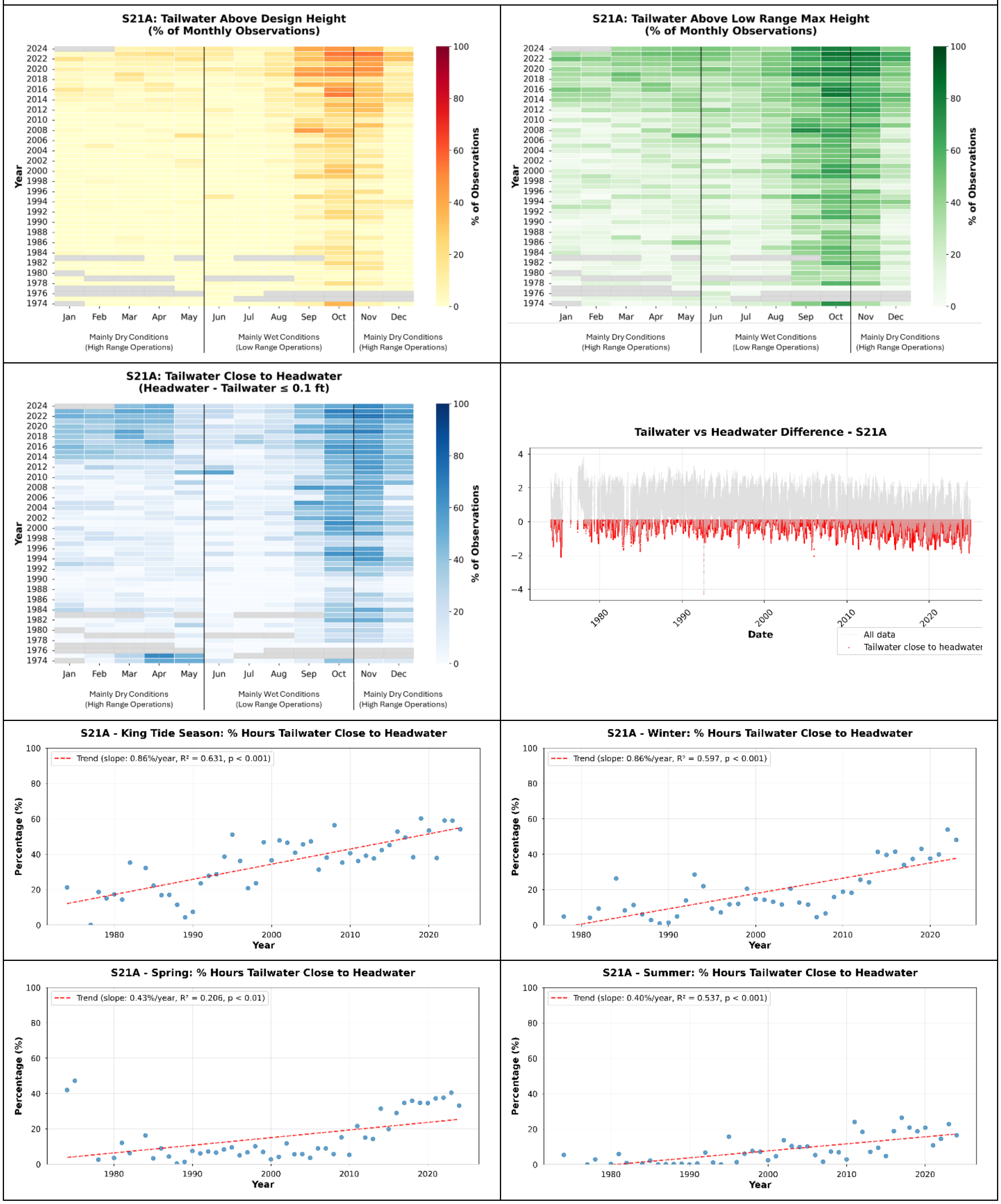
Panel 21. Structure S-123.

Miami-Dade County – S-21

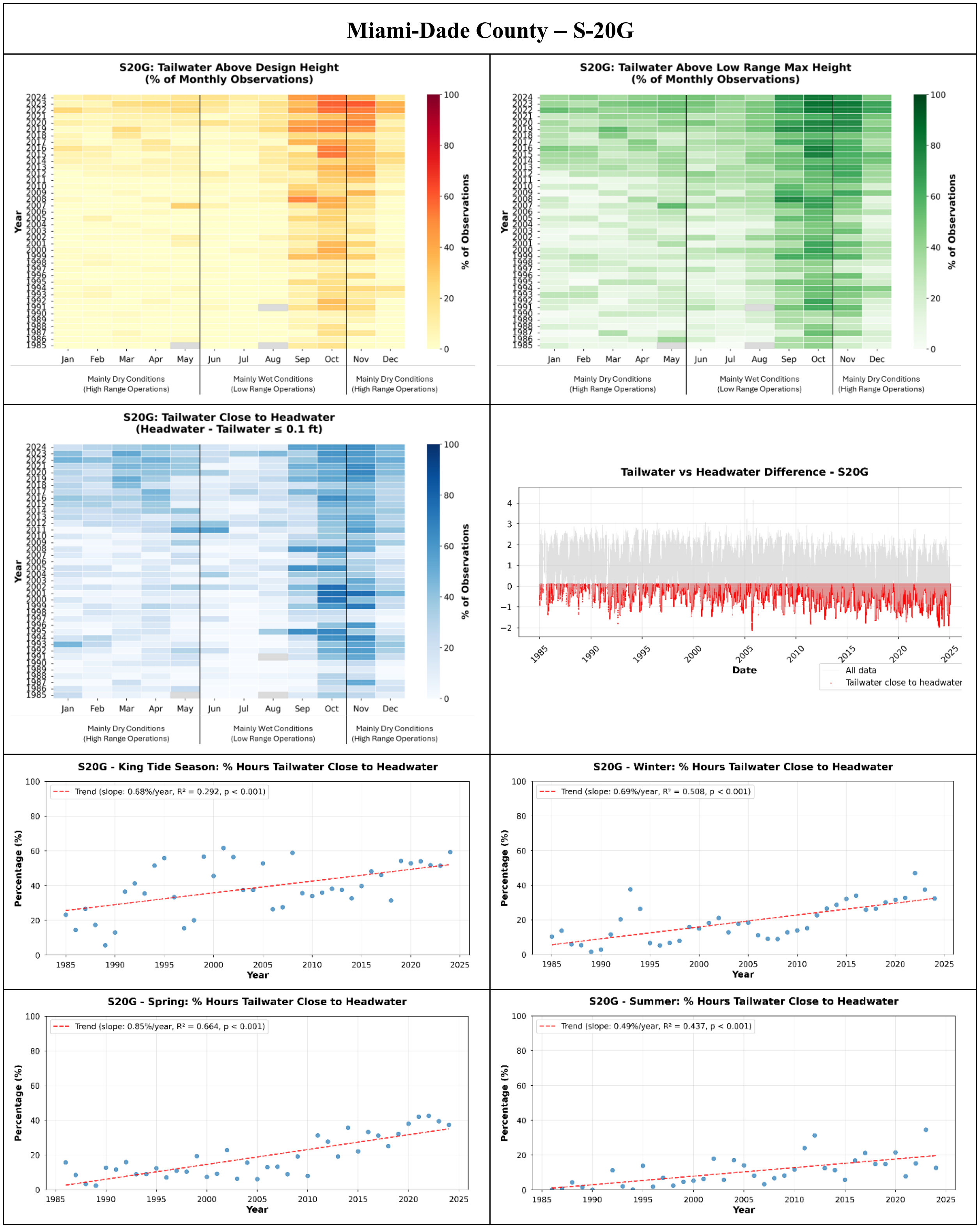


Panel 22. Structure S-21.

Miami-Dade County – S-21A

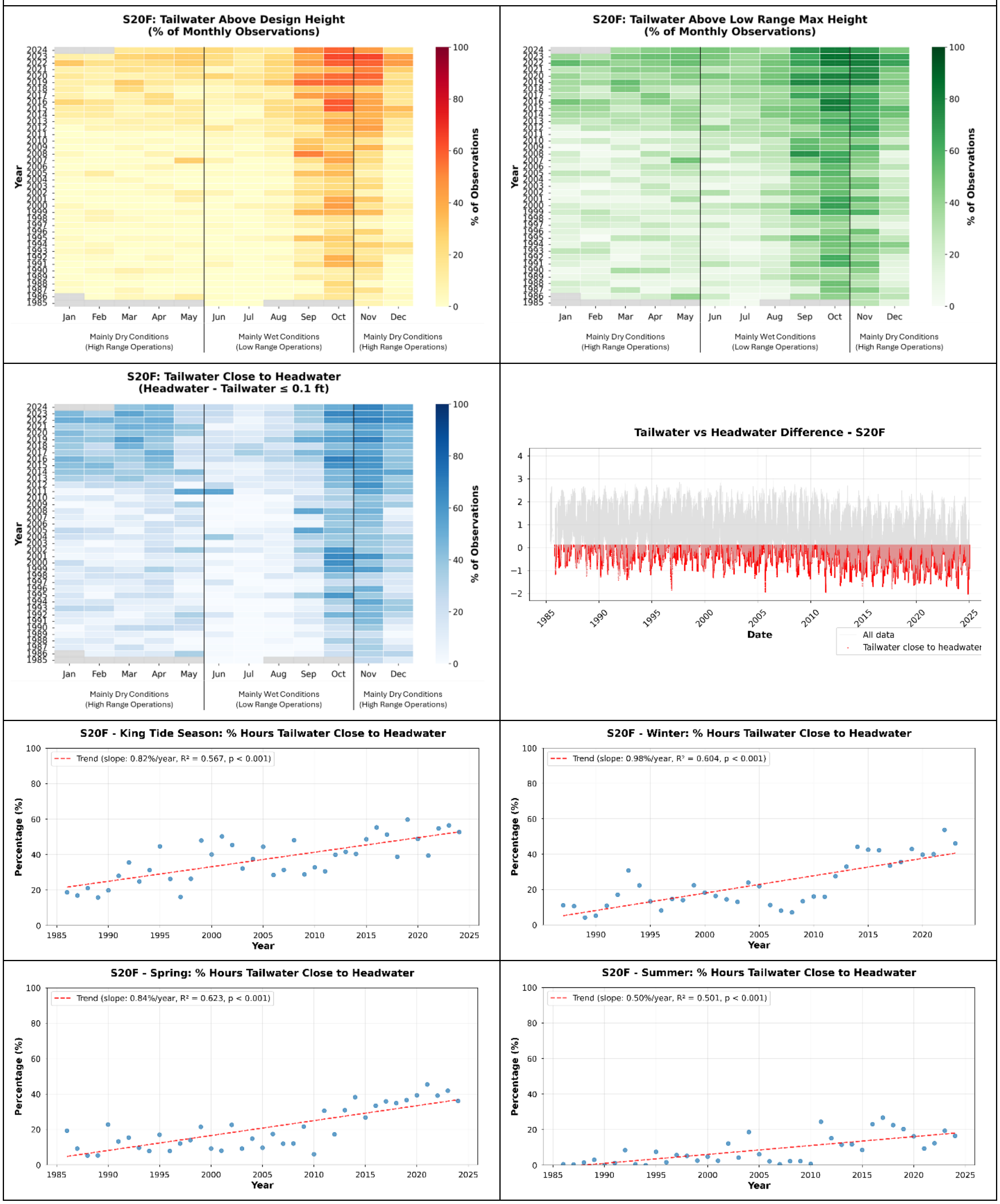


Panel 23. Structure S-21A.



Panel 24. Structure S-20G.

Miami-Dade County – S-20F



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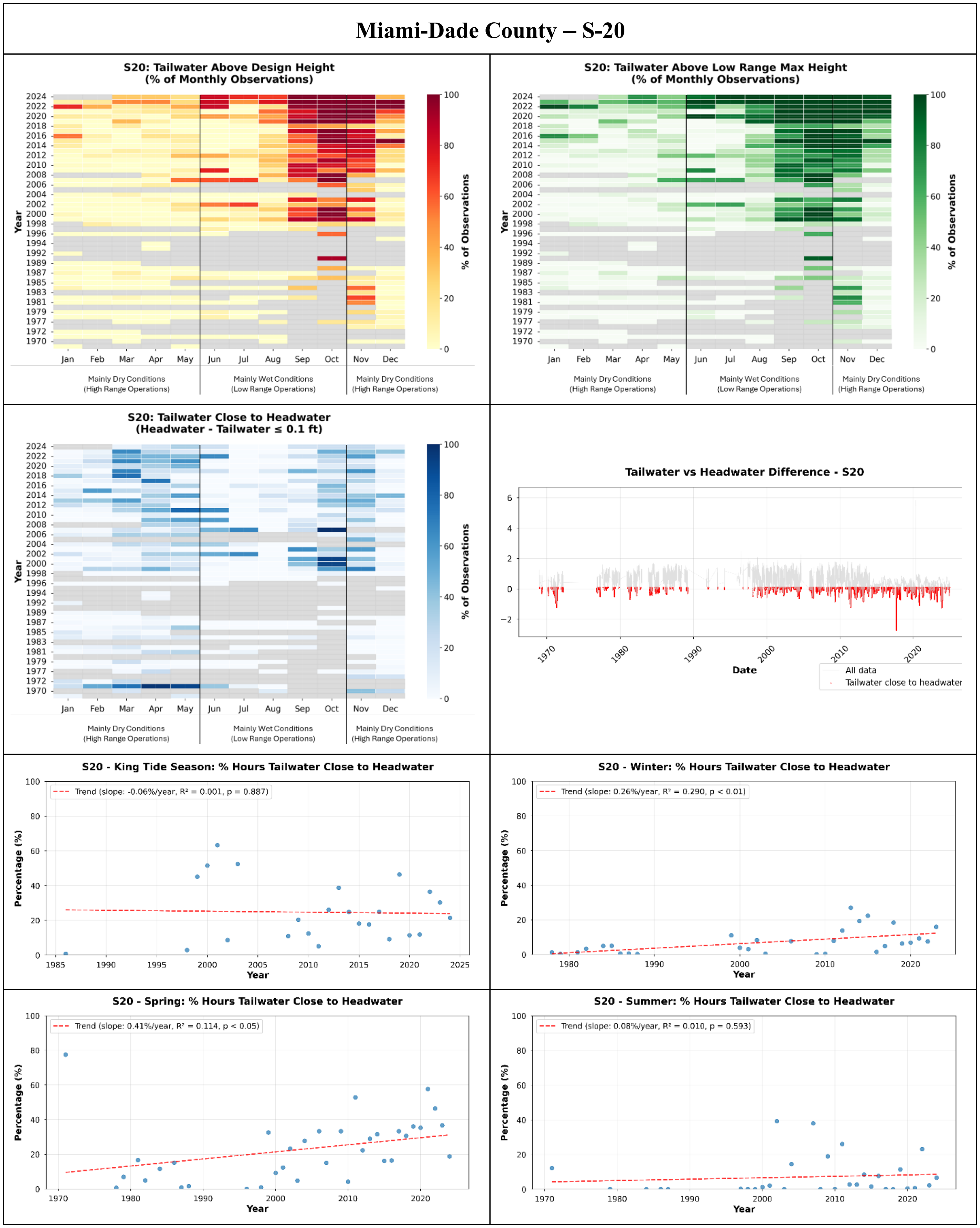
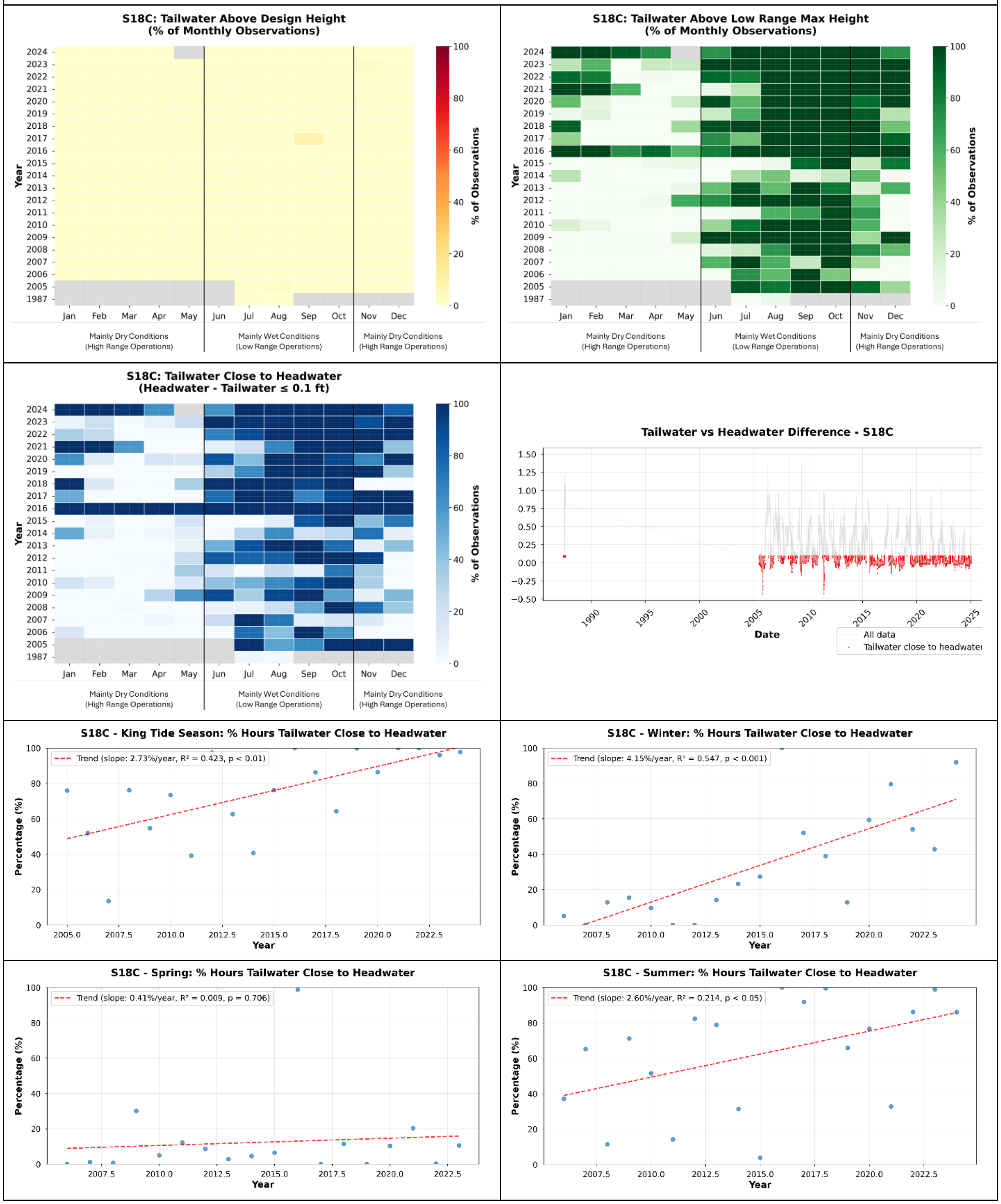


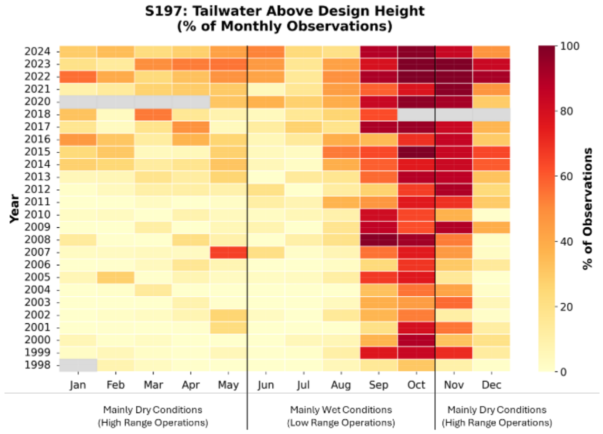
Panel 26. Structure S-20.

Miami-Dade County – S-18C

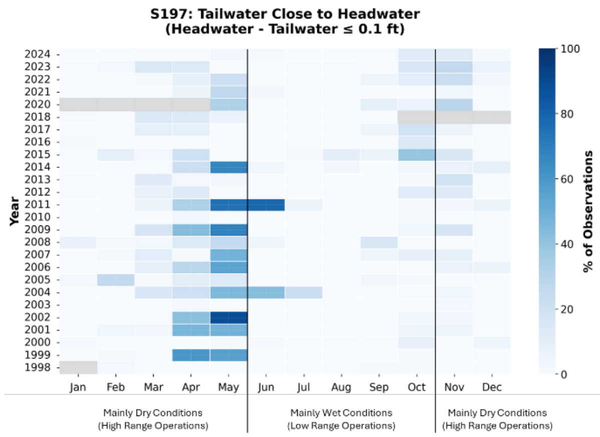


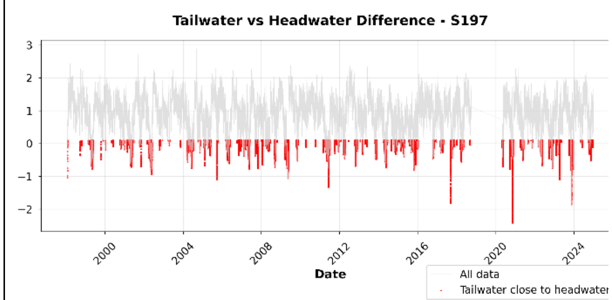
Panel 27. Structure S-18C.

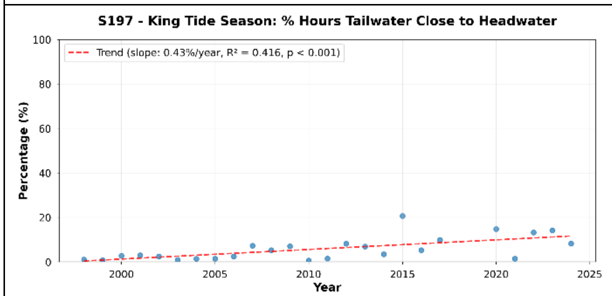
Miami-Dade County – S-197

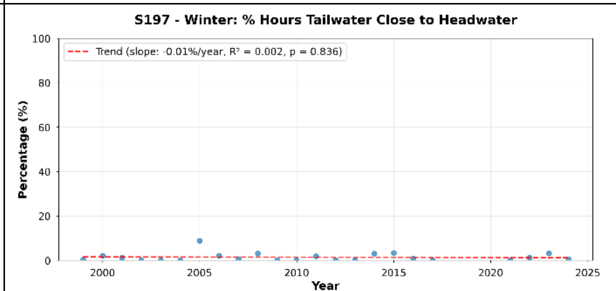


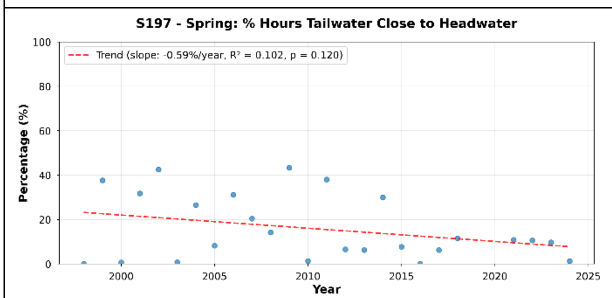
The low range maximum height is not defined for this structure, therefore this heatmap is not available.

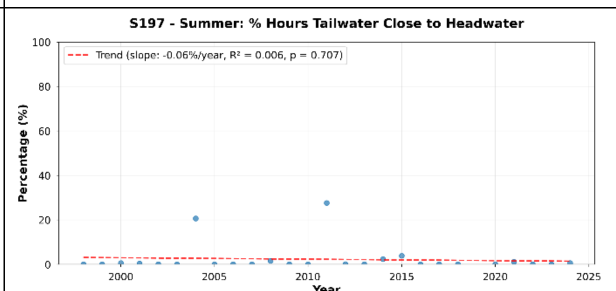






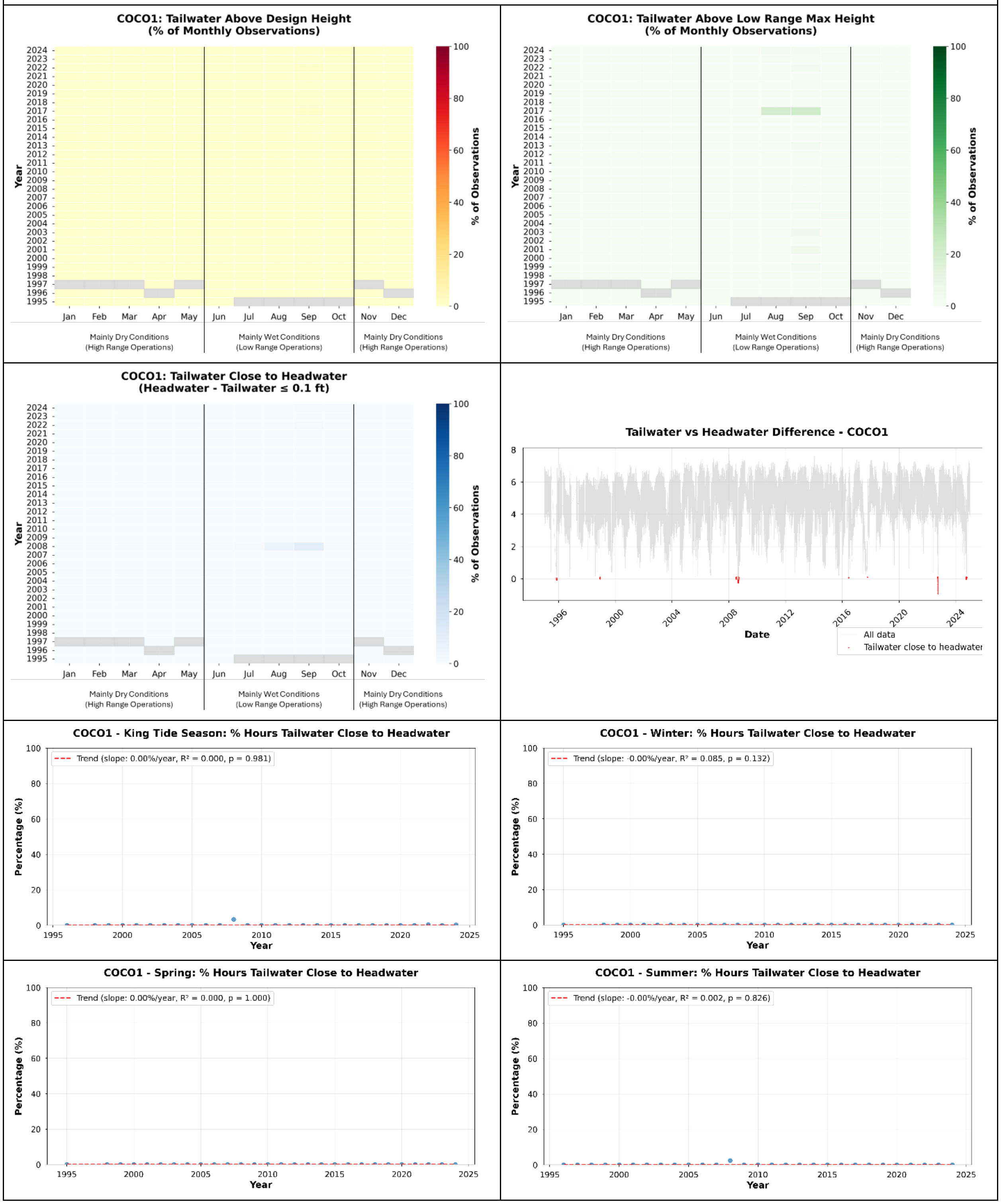




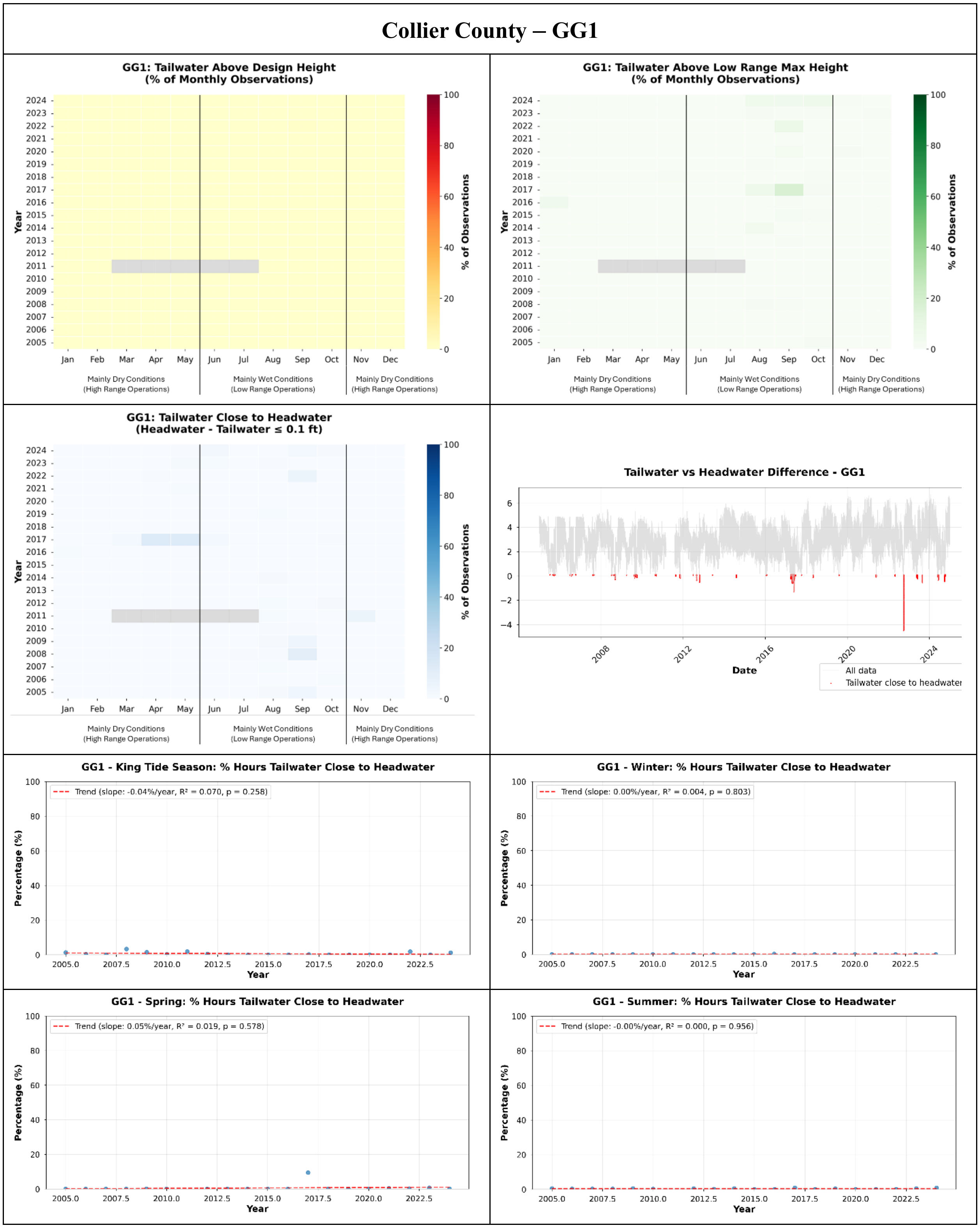


Panel 28. Structure S-197.

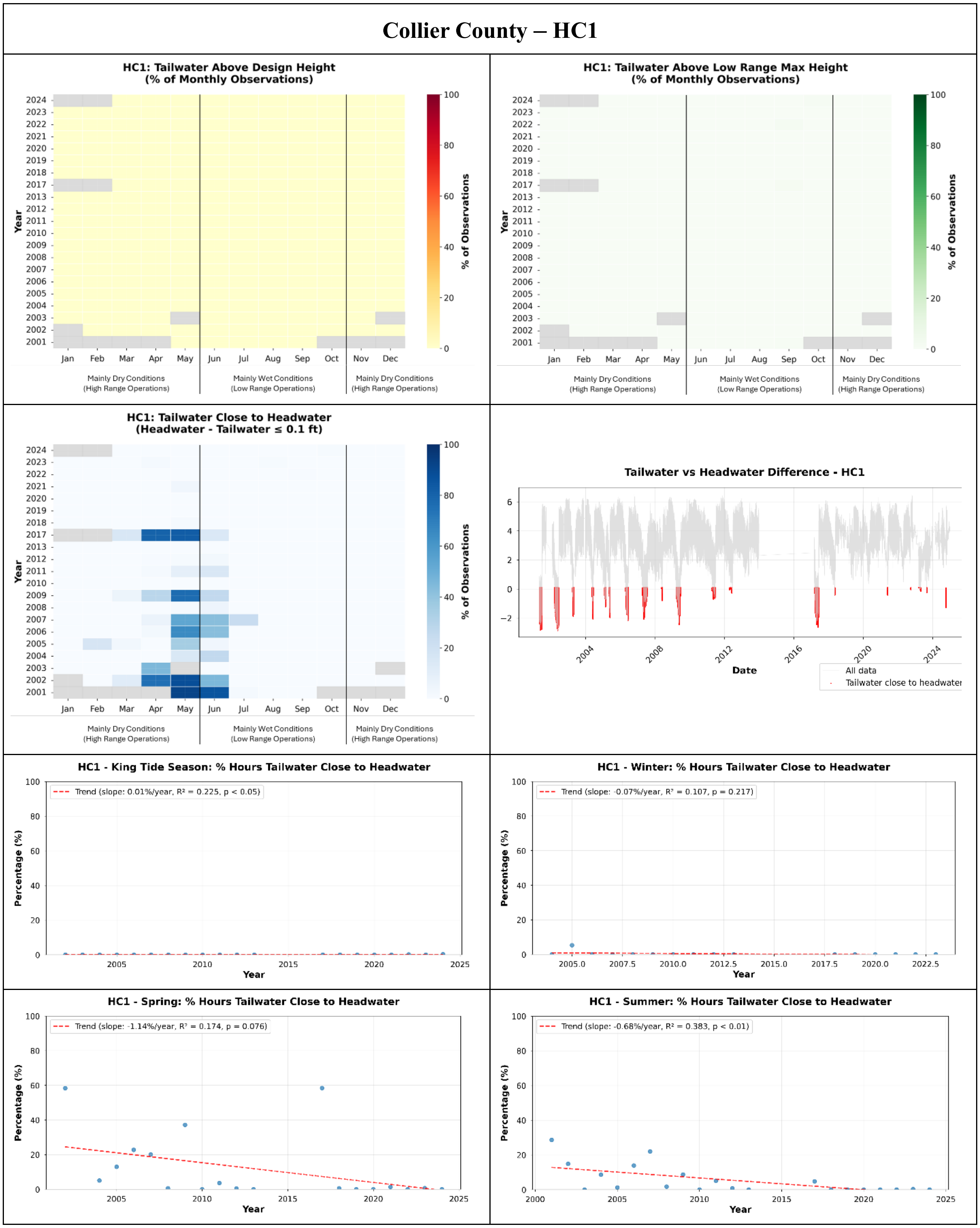
Collier County – COCO1



Panel 29. Structure COCO1.

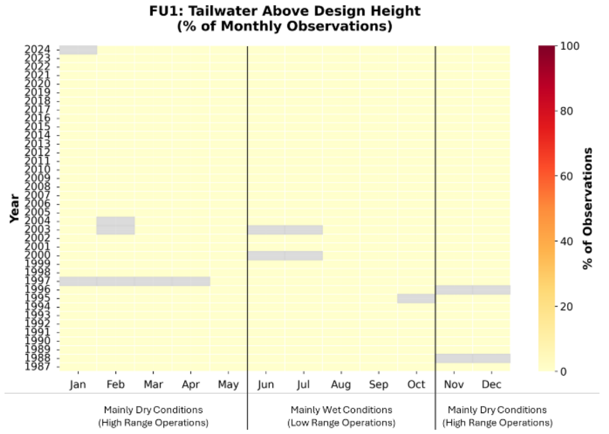


Panel 30. Structure GG1.

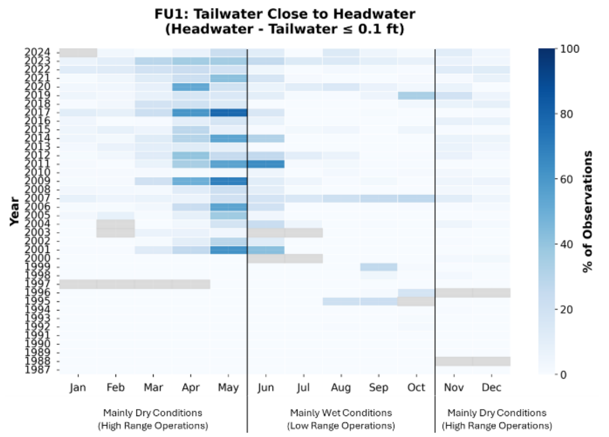


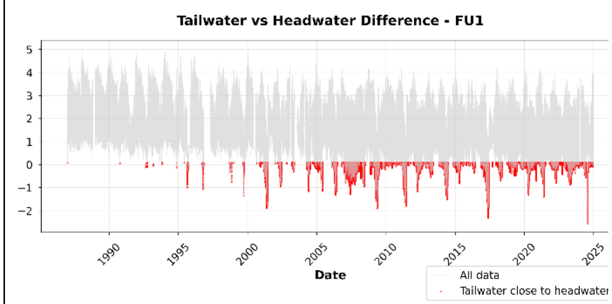
Panel 31. Structure HC1.

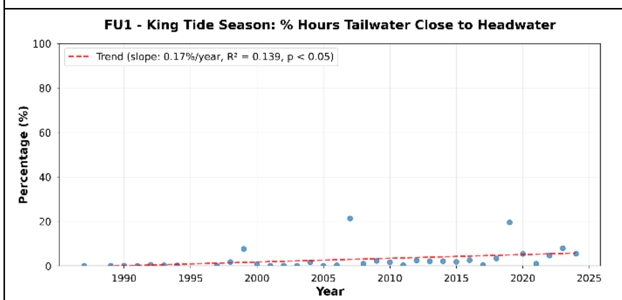
Collier County – FU1

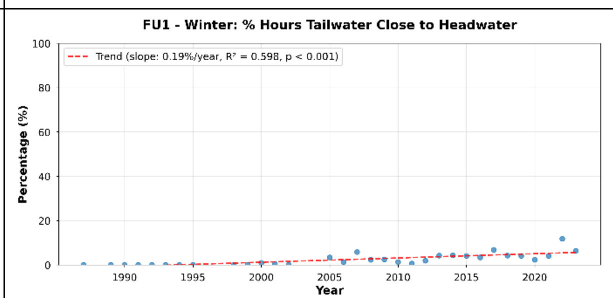


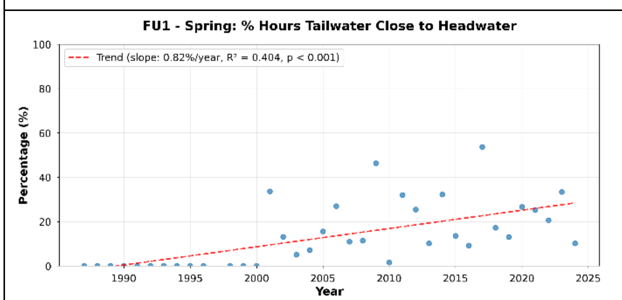
The low range maximum height is not defined for this structure, therefore this heatmap is not available.

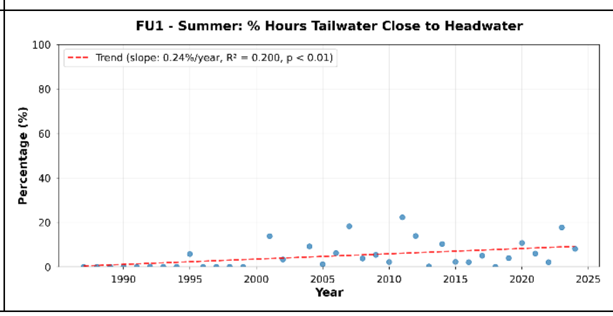












Panel 32. Structure FU1.