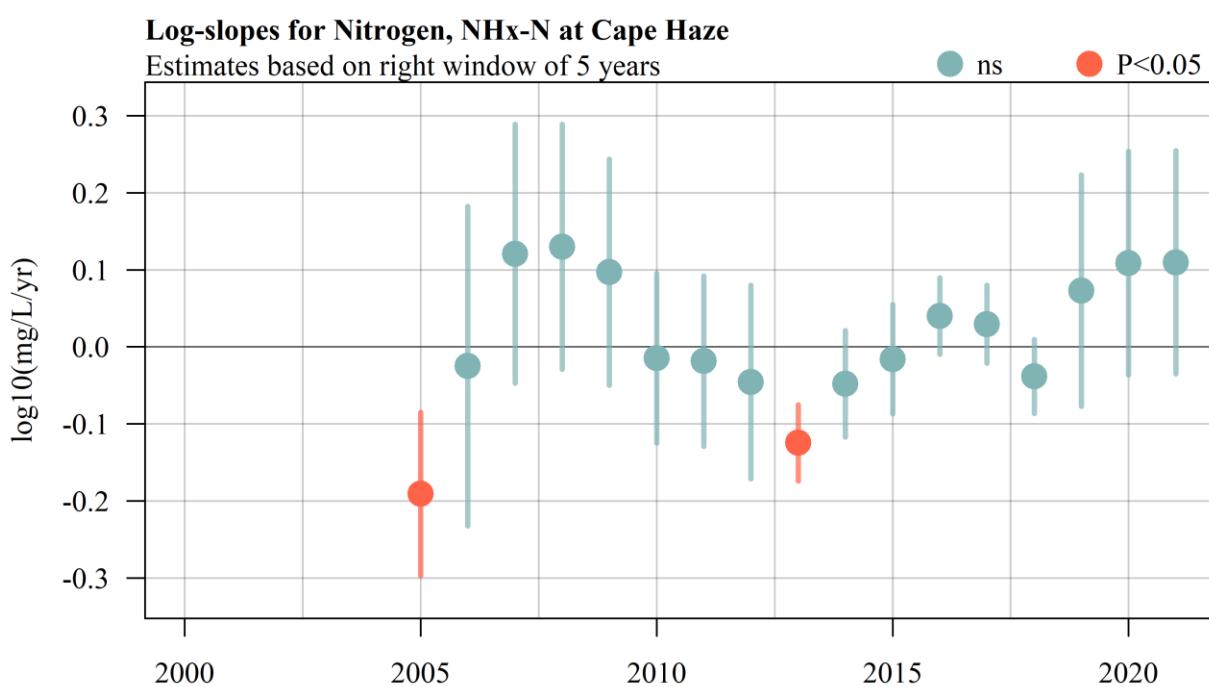
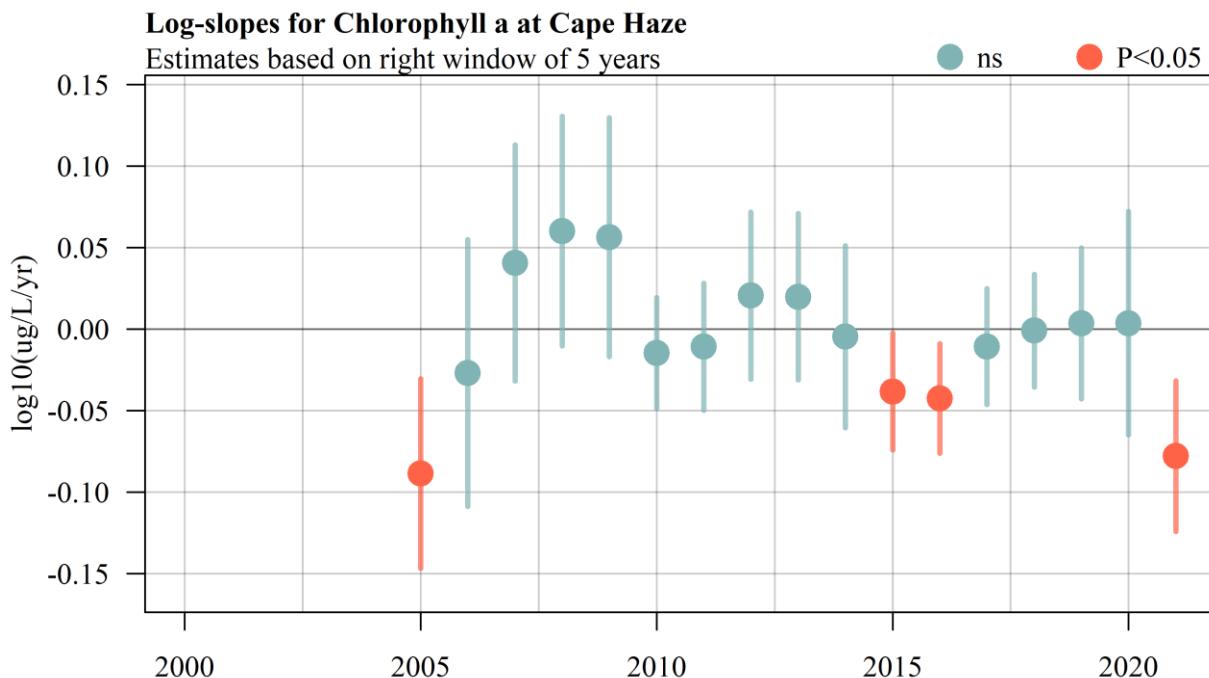


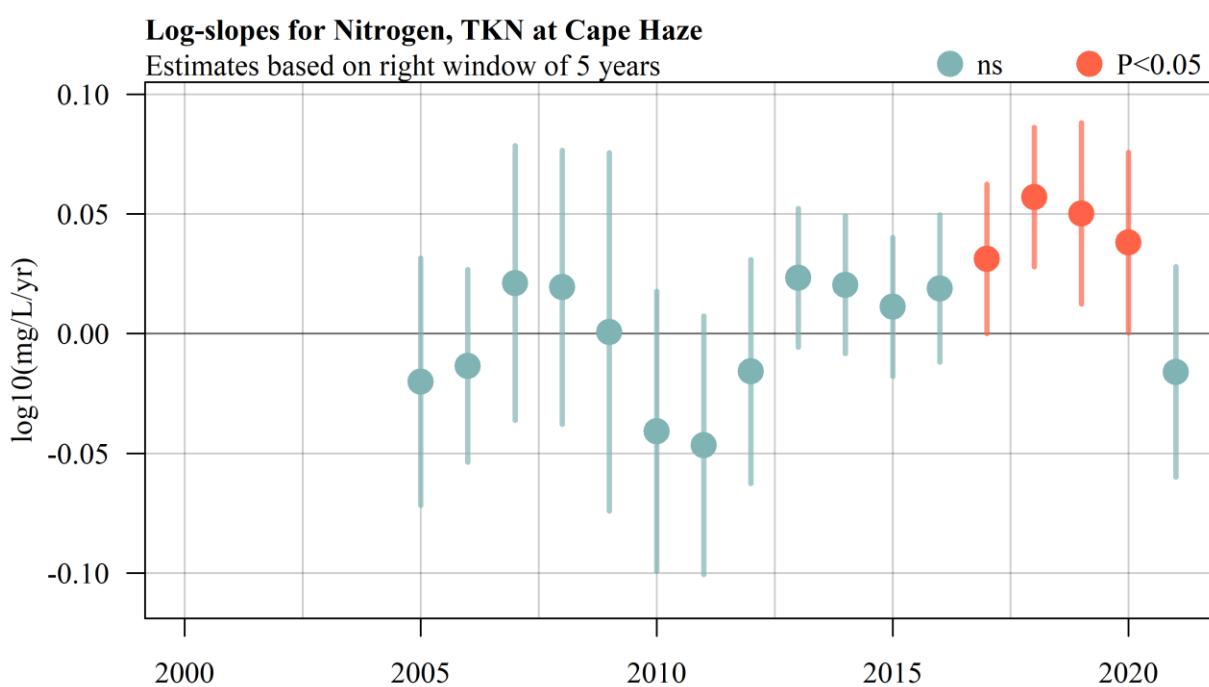
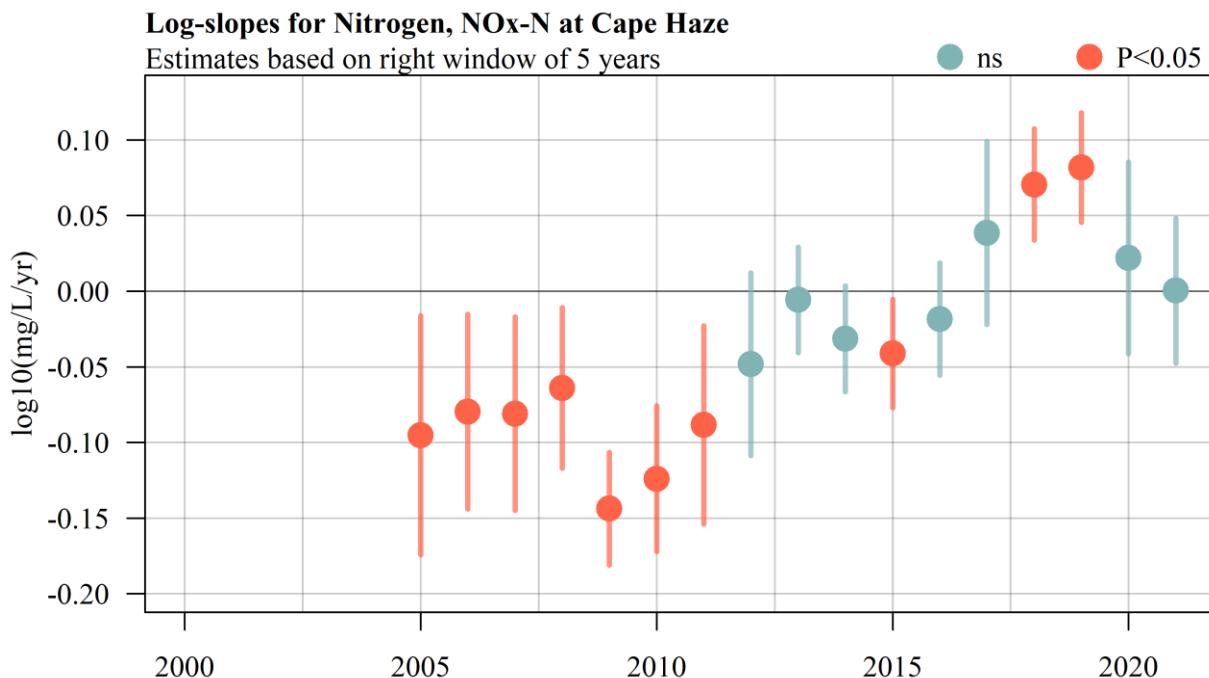
5-year trend slopes

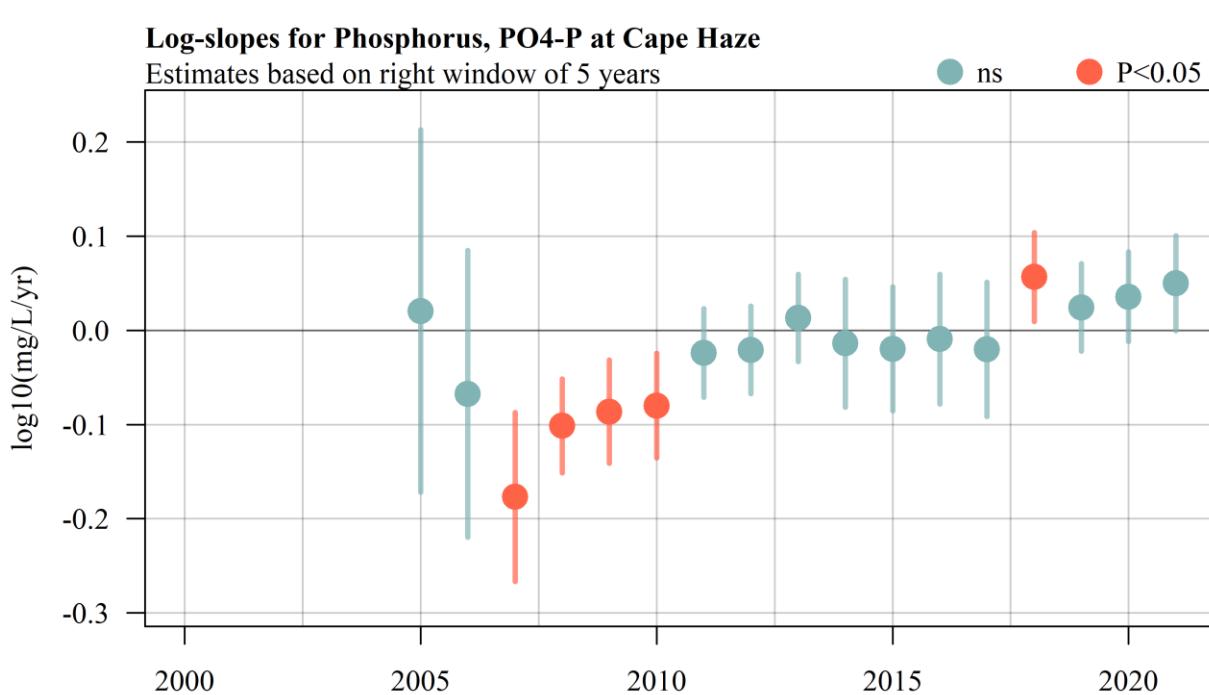
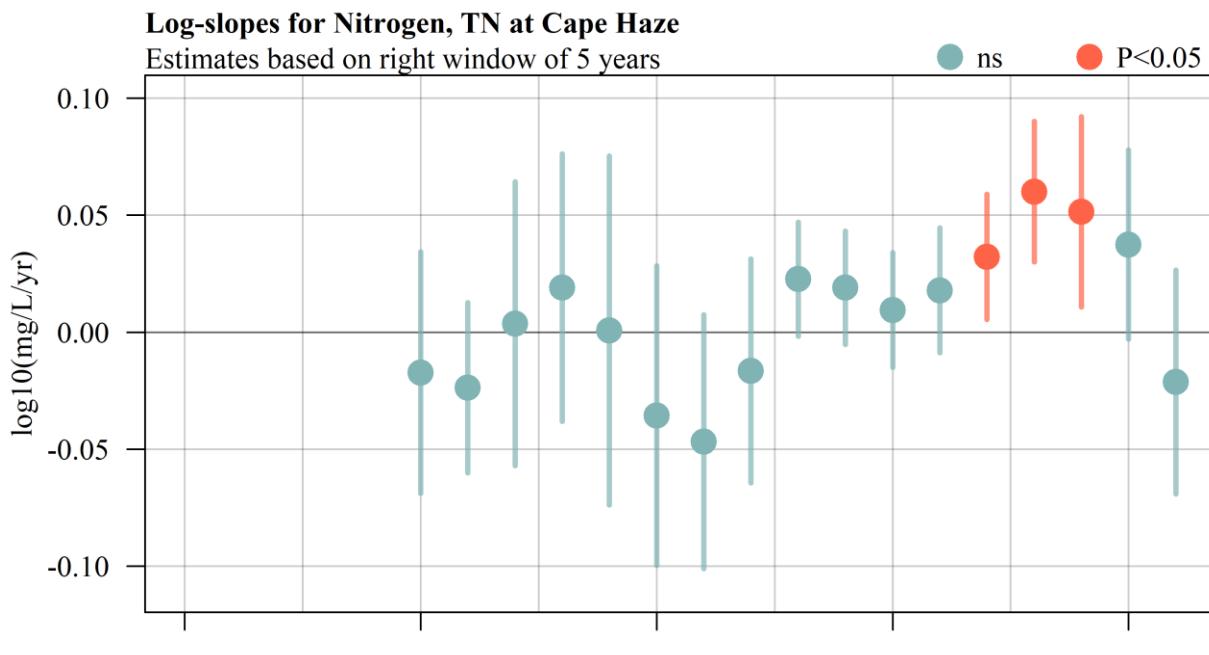
Supplementary figures for “Water Quality Trends and Eutrophication Indicators in a Large Subtropical Estuary: A Case Study of the Greater Charlotte Harbor System in Southwest Florida” by Medina et al. (<https://doi.org/10.1007/s12237-025-01488-2>).

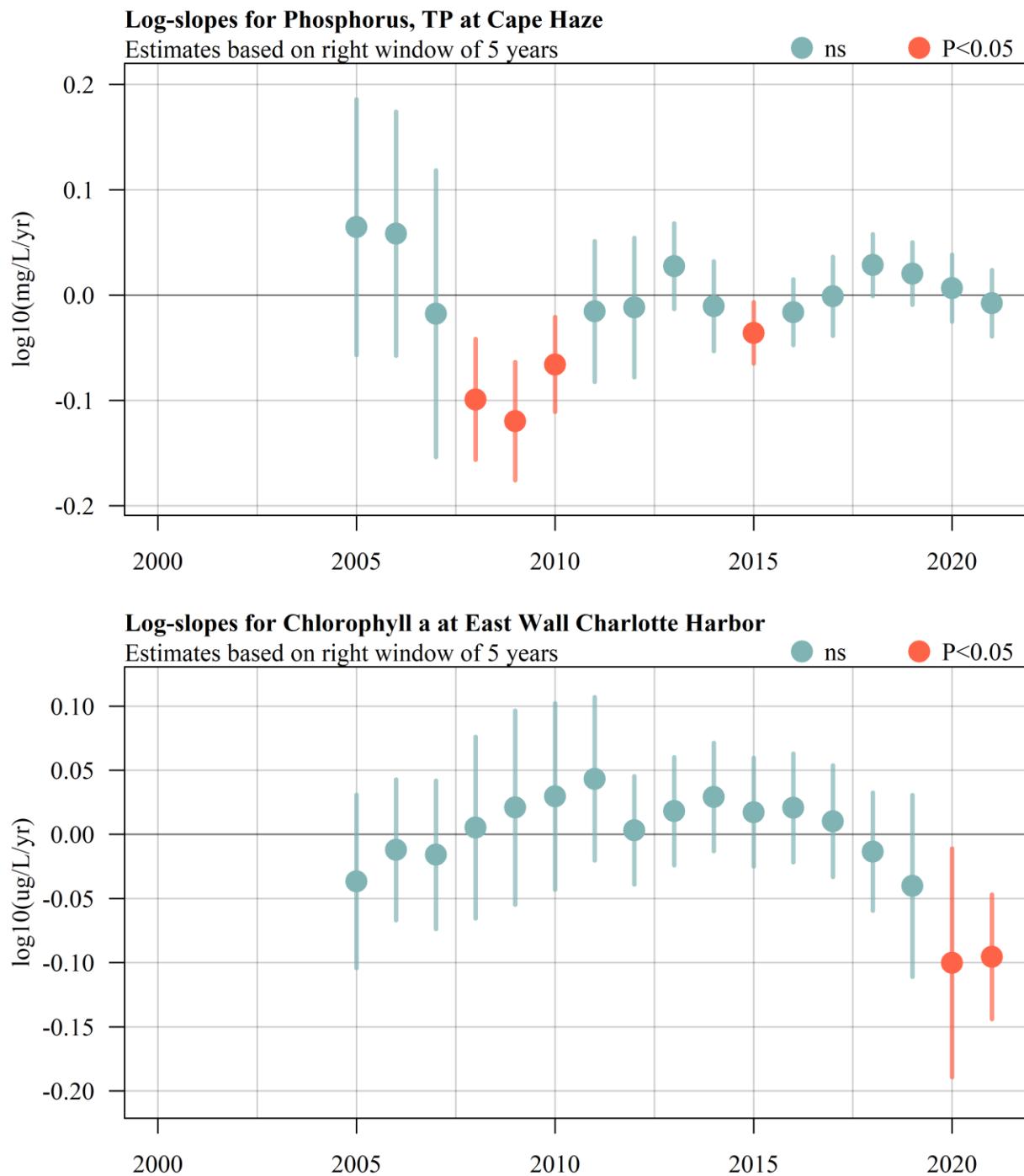
This document contains visualizations of estimated trend slopes over 5-year, right-justified sliding windows with 95% CIs, for seven water quality parameters at each of 13 monitoring strata. Each slope estimate appears above the terminal year of the corresponding 5-year window (e.g., the 2017–2021 slope estimate is assigned to 2021).

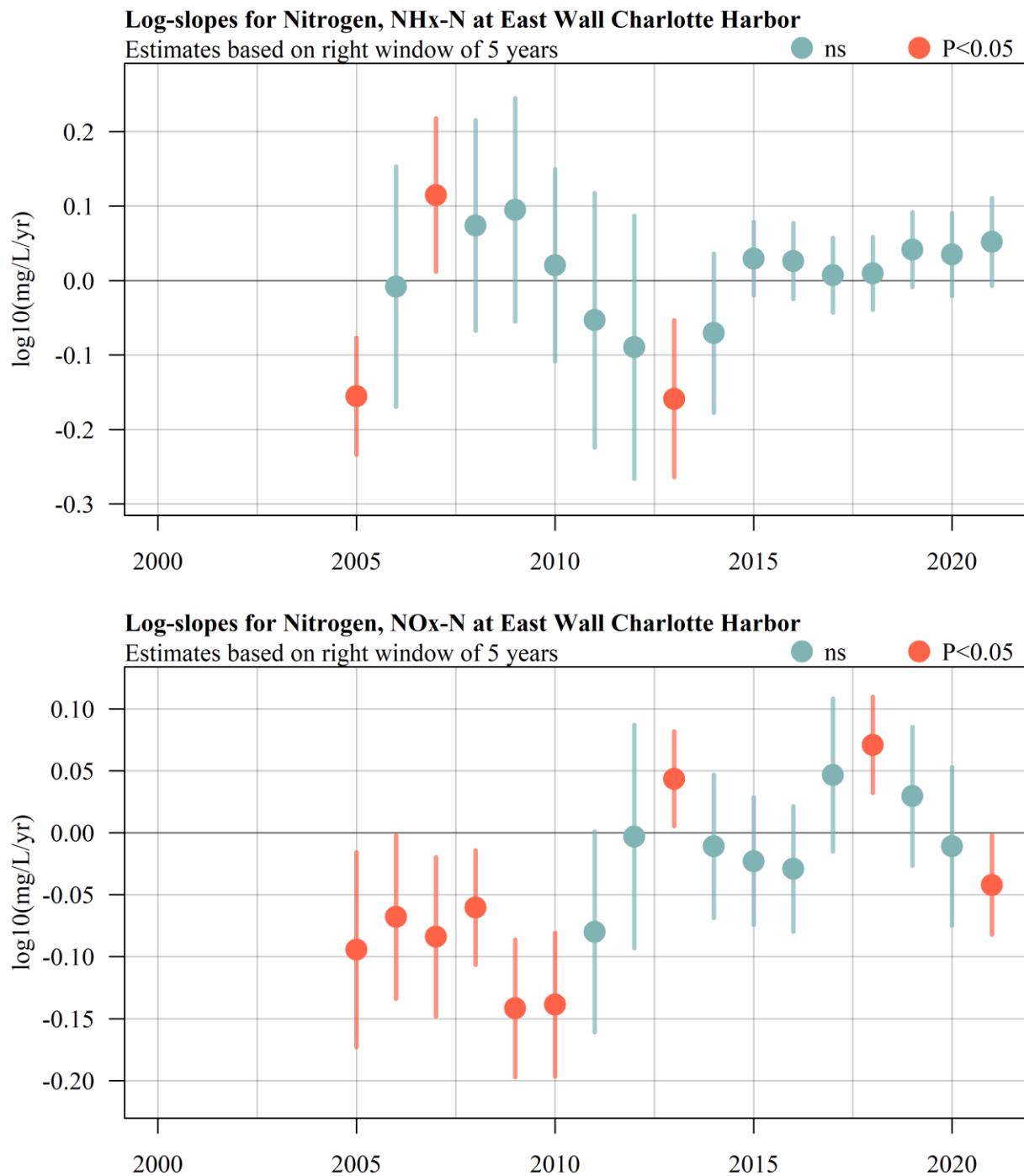
Trends for inorganic parameters (NH_x, NO_x, PO₄) are typically unreliable due to the large number of non-detect samples.

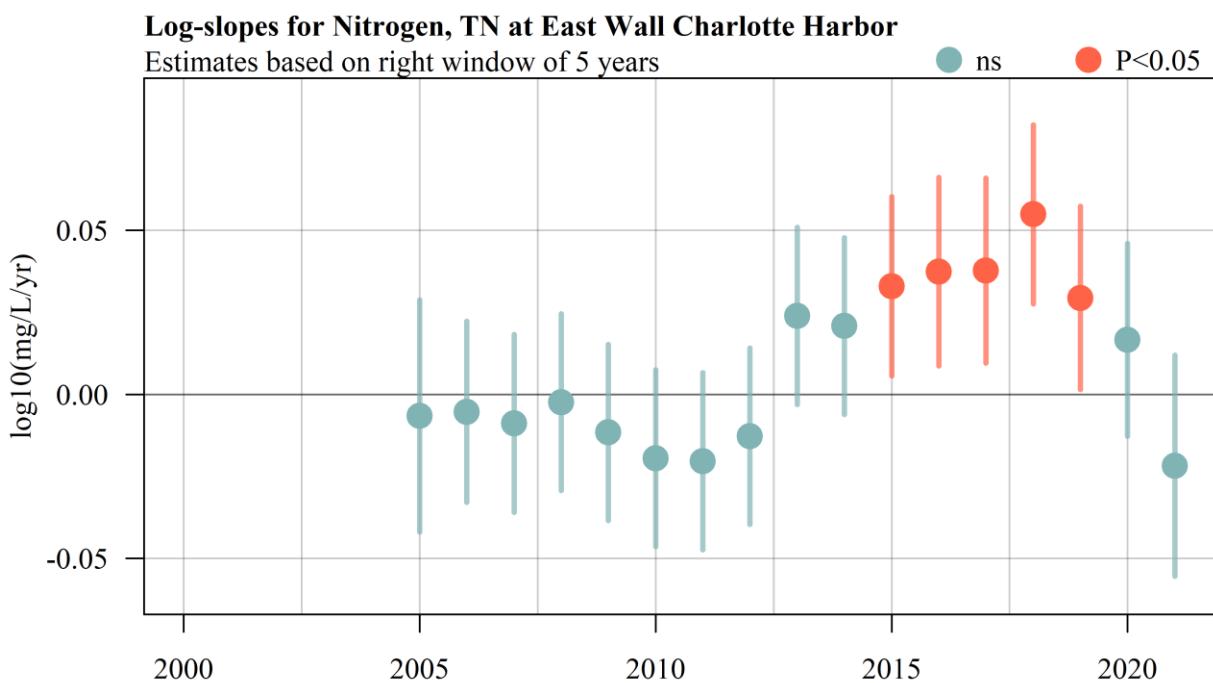
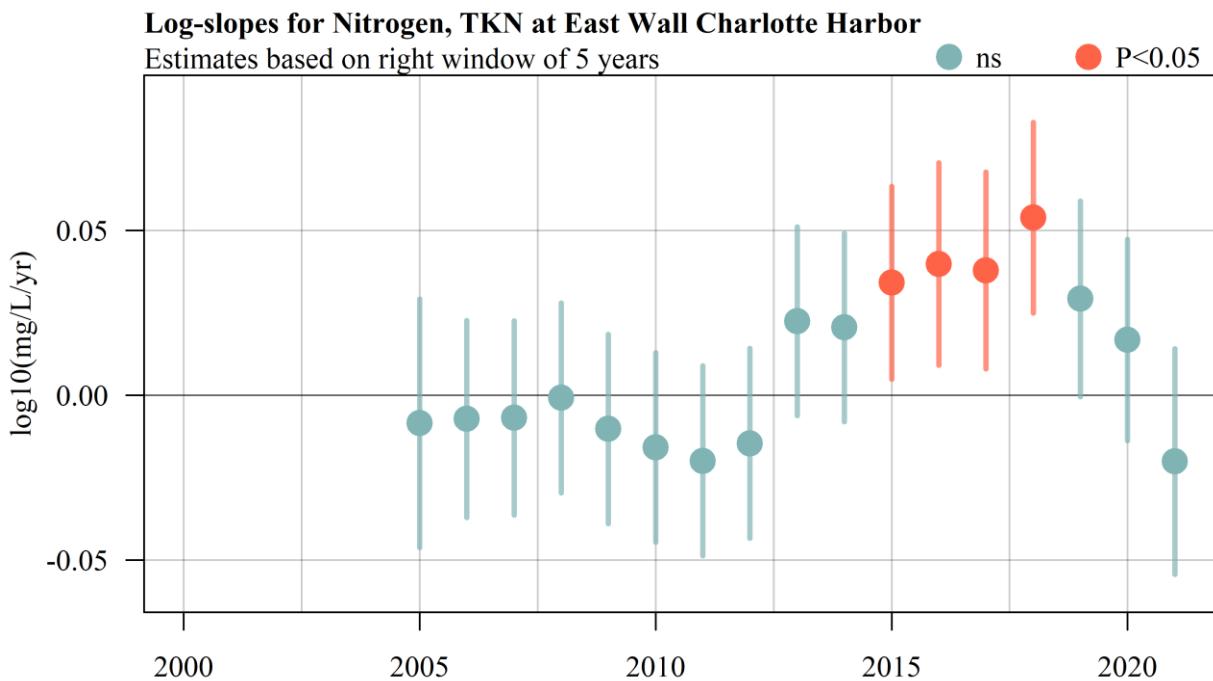


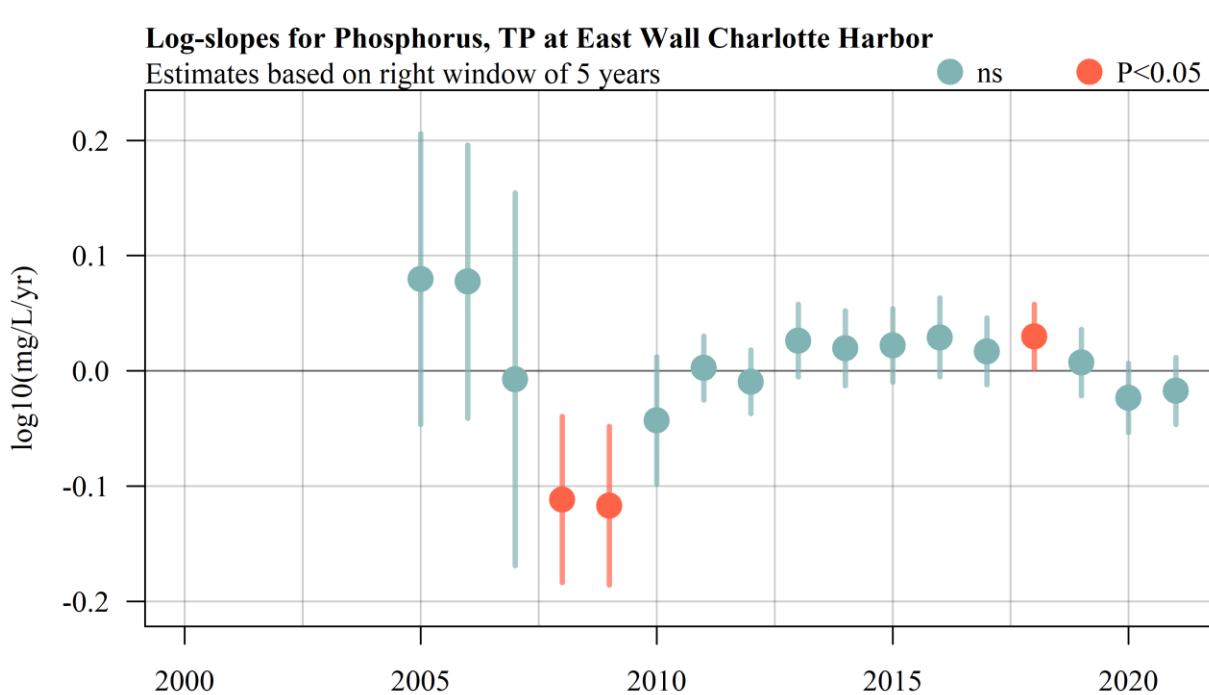
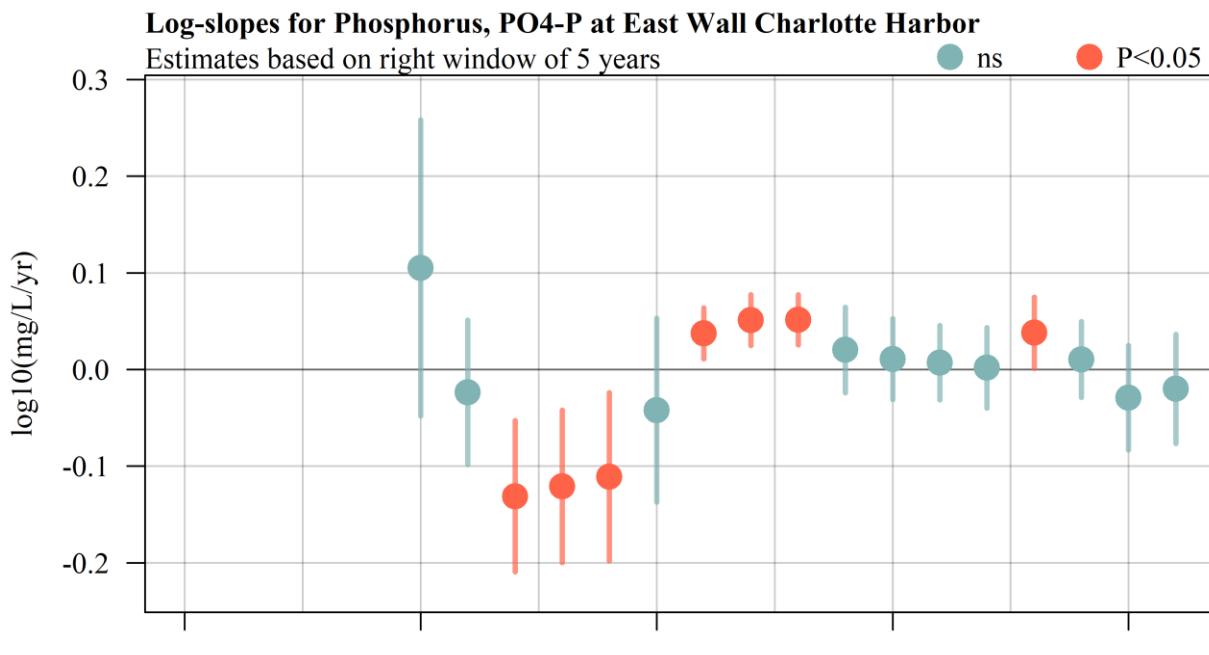


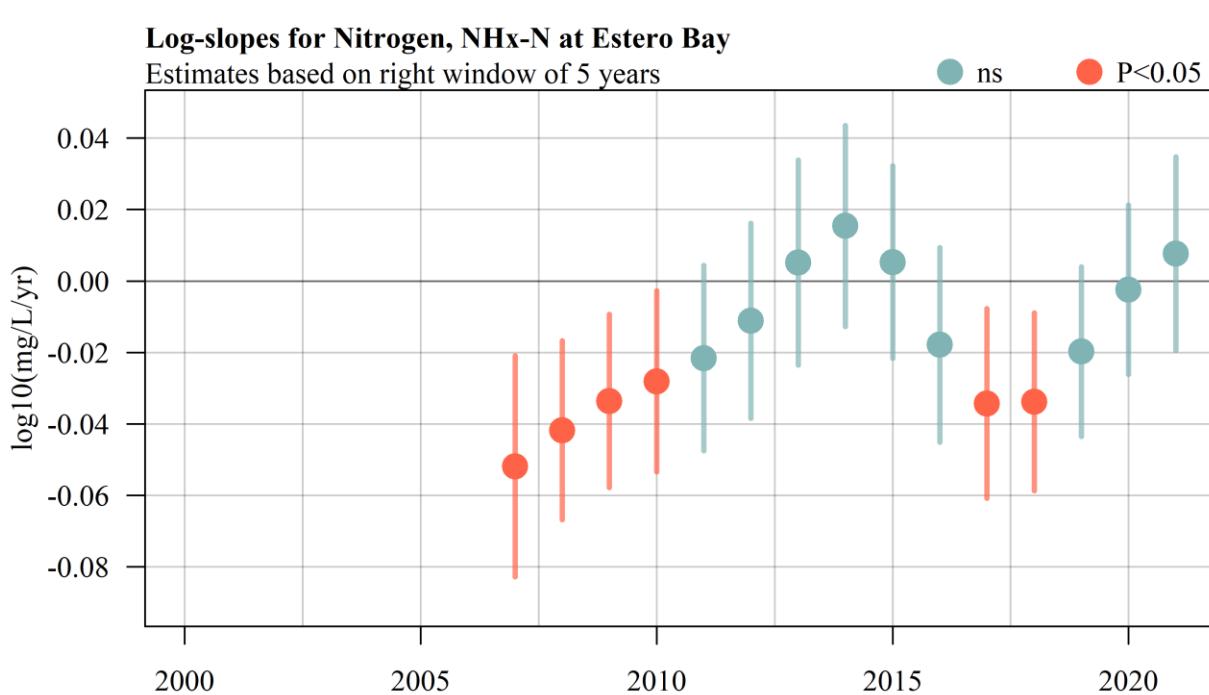
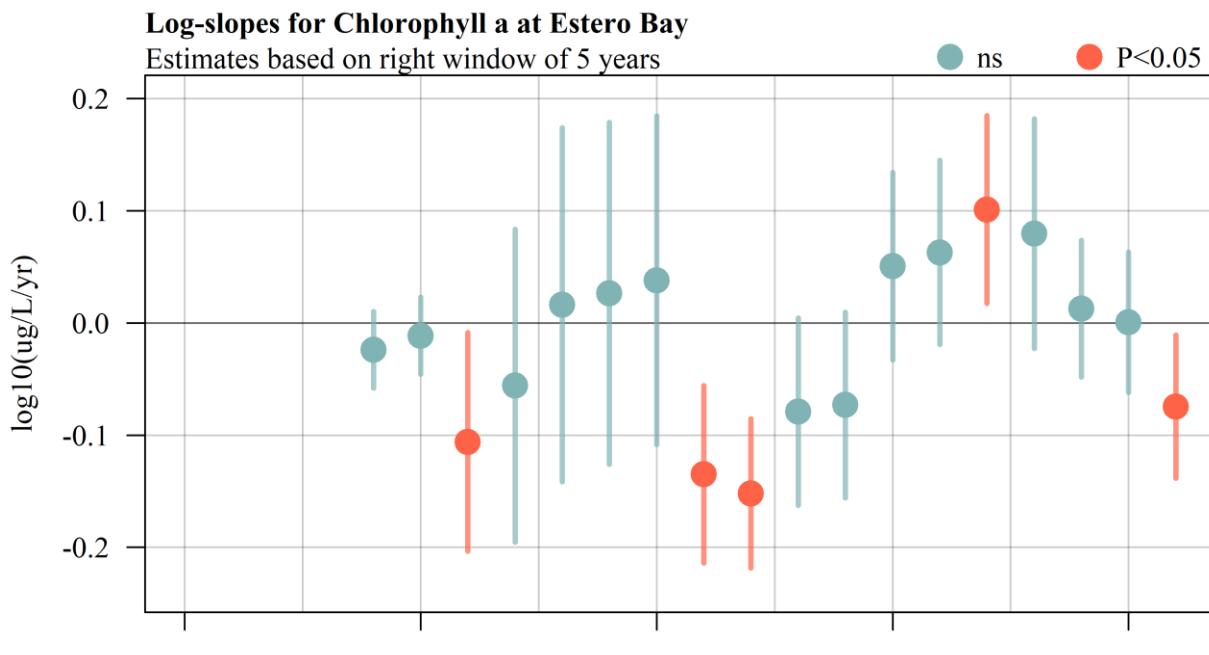


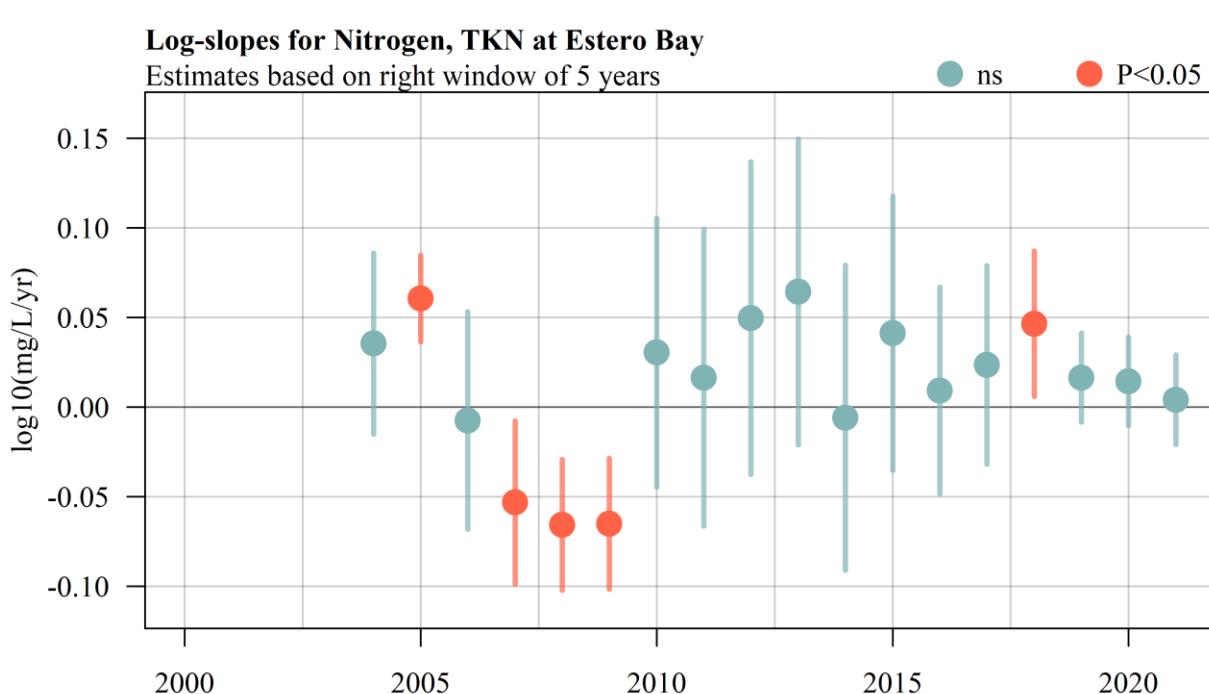
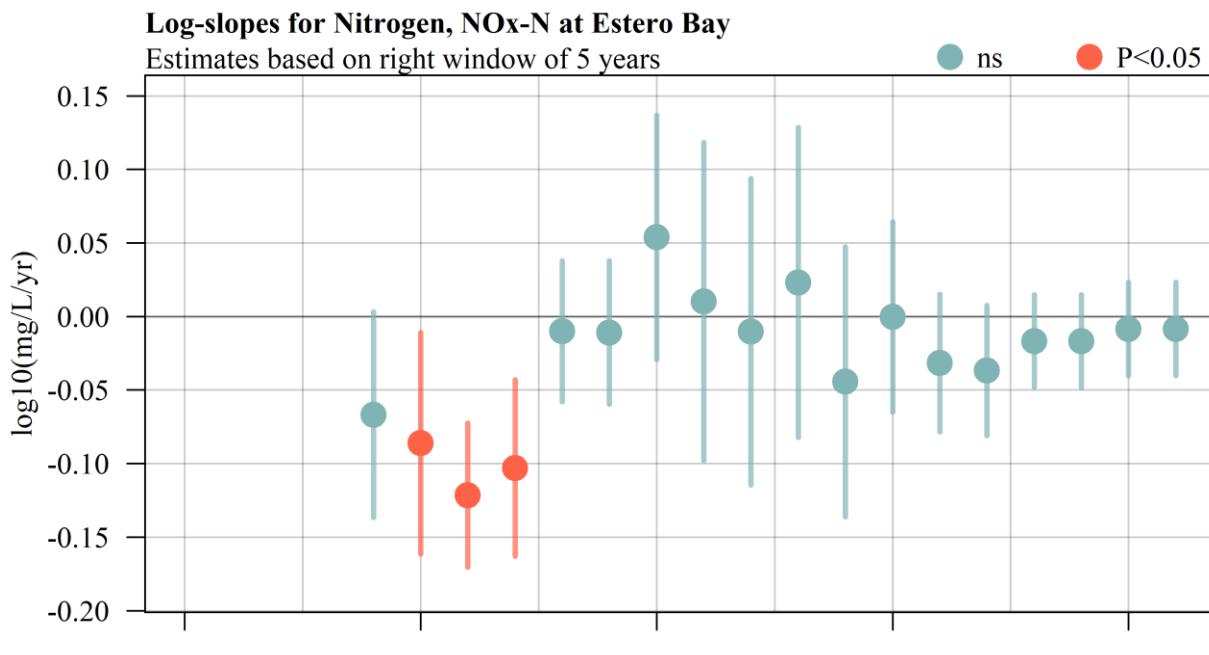


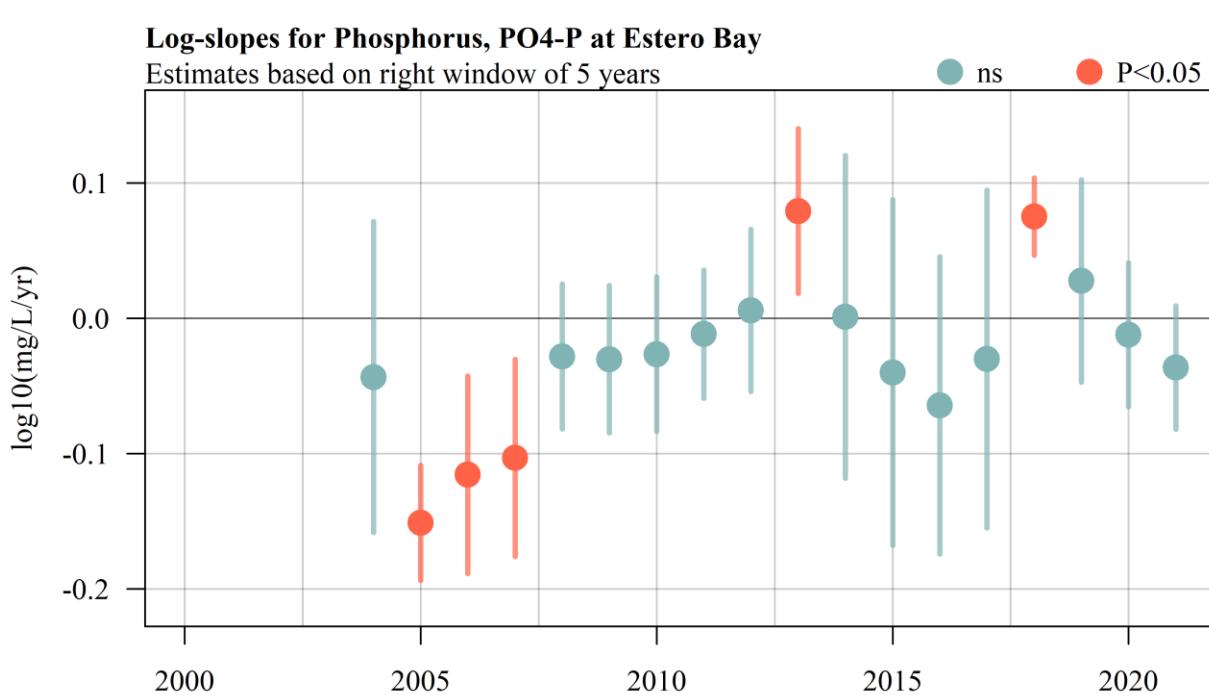
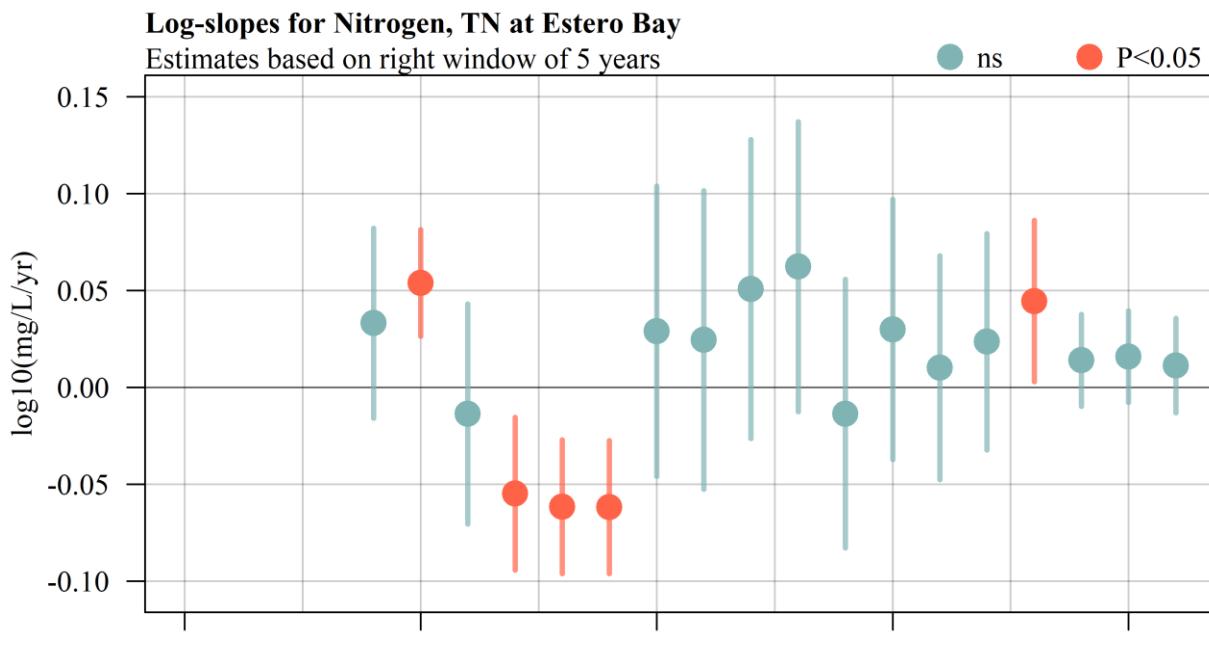










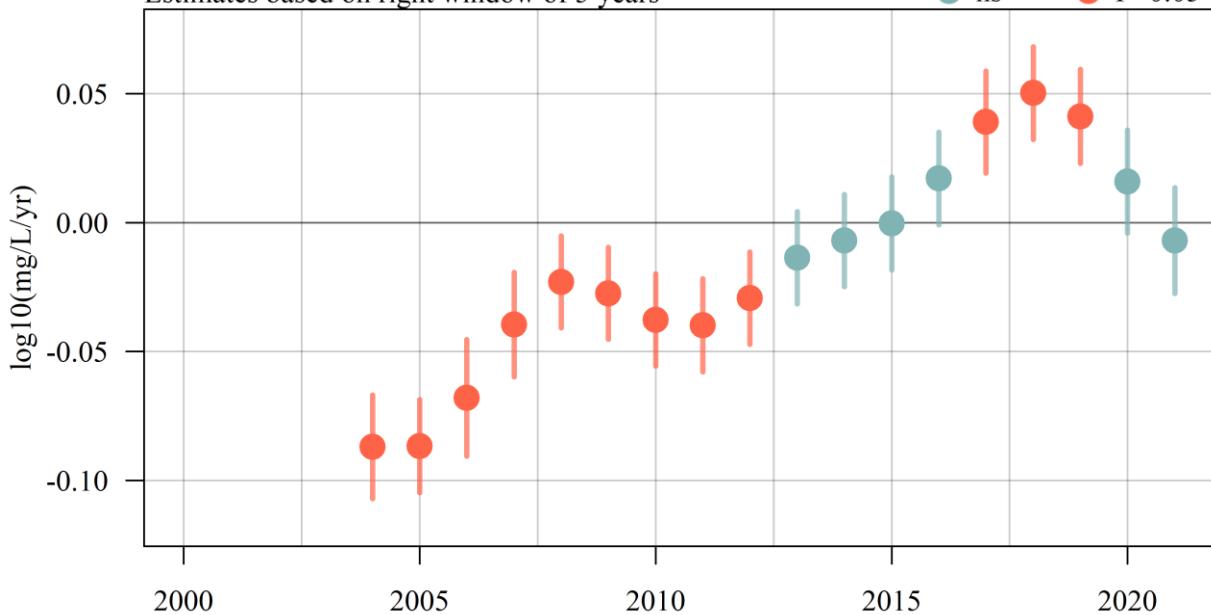


Log-slopes for Phosphorus, TP at Estero Bay

Estimates based on right window of 5 years

ns

P<0.05

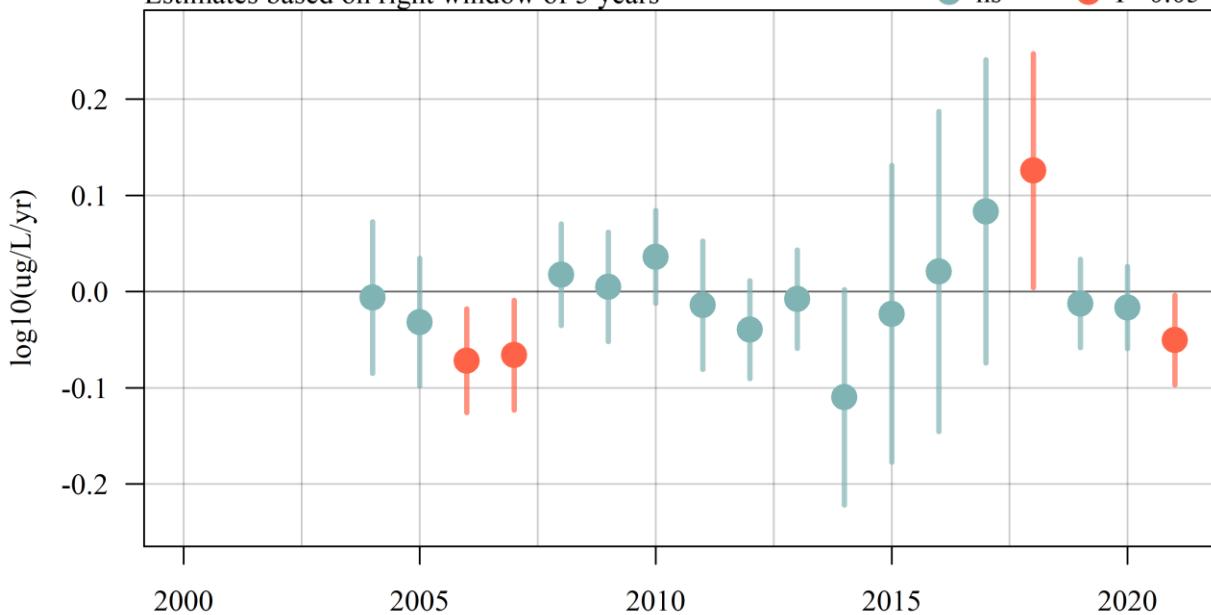


Log-slopes for Chlorophyll a at Lower Charlotte Harbor

Estimates based on right window of 5 years

ns

P<0.05

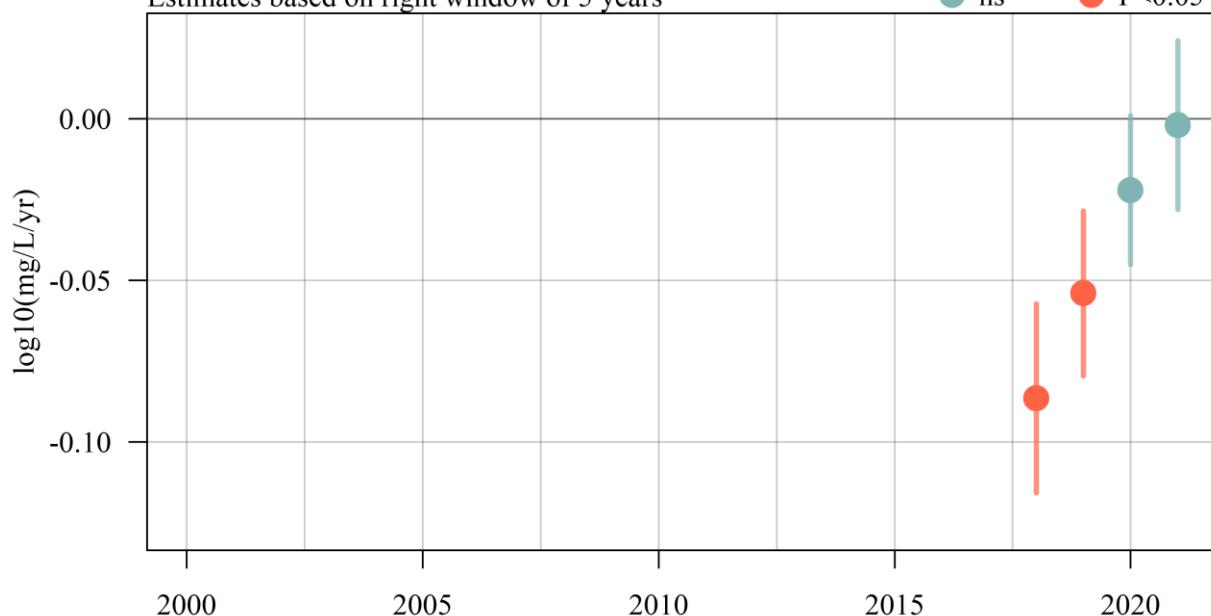


Log-slopes for Nitrogen, NHx-N at Lower Charlotte Harbor

Estimates based on right window of 5 years

ns

P<0.05

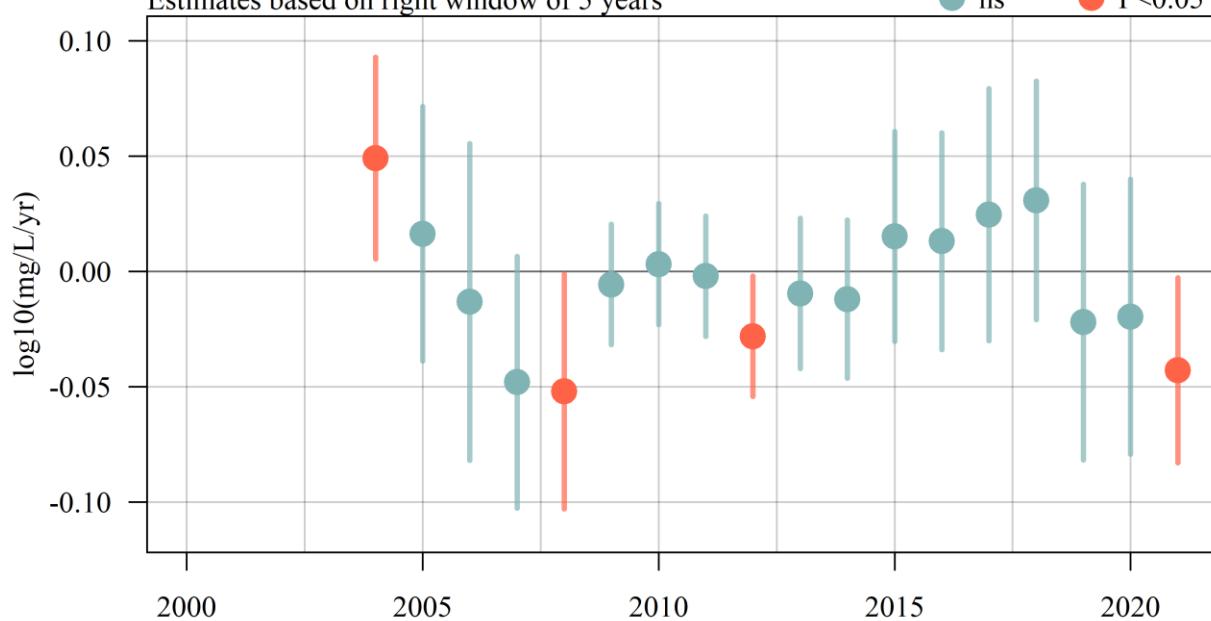


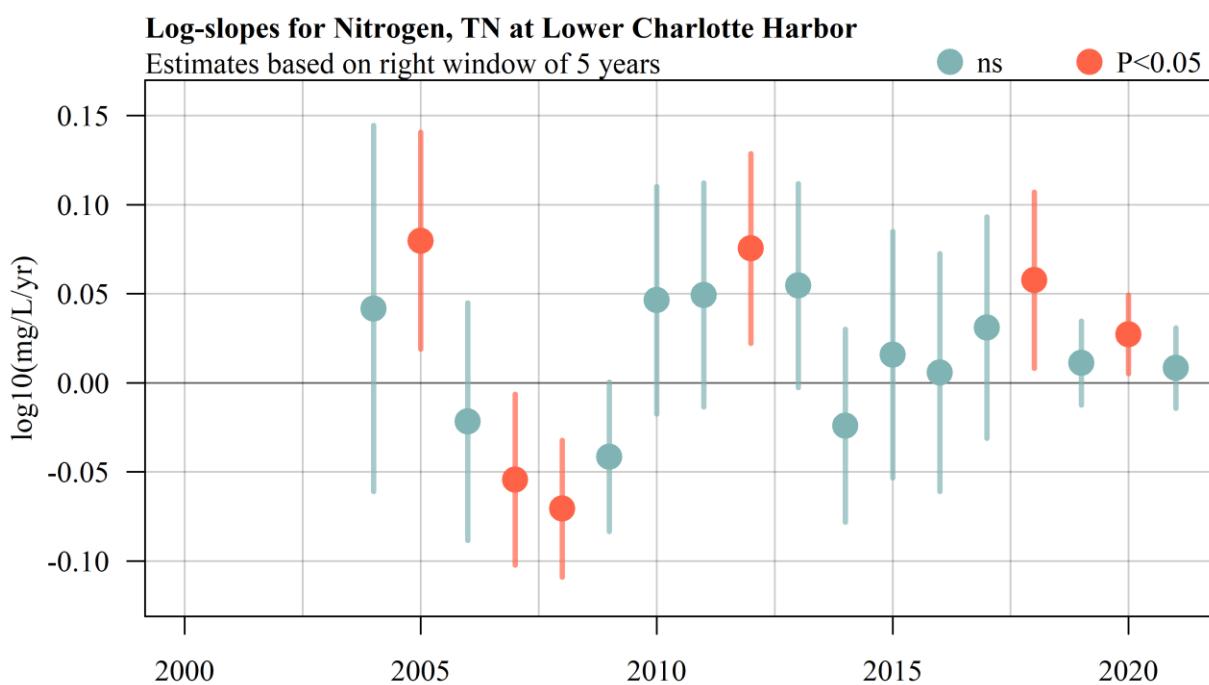
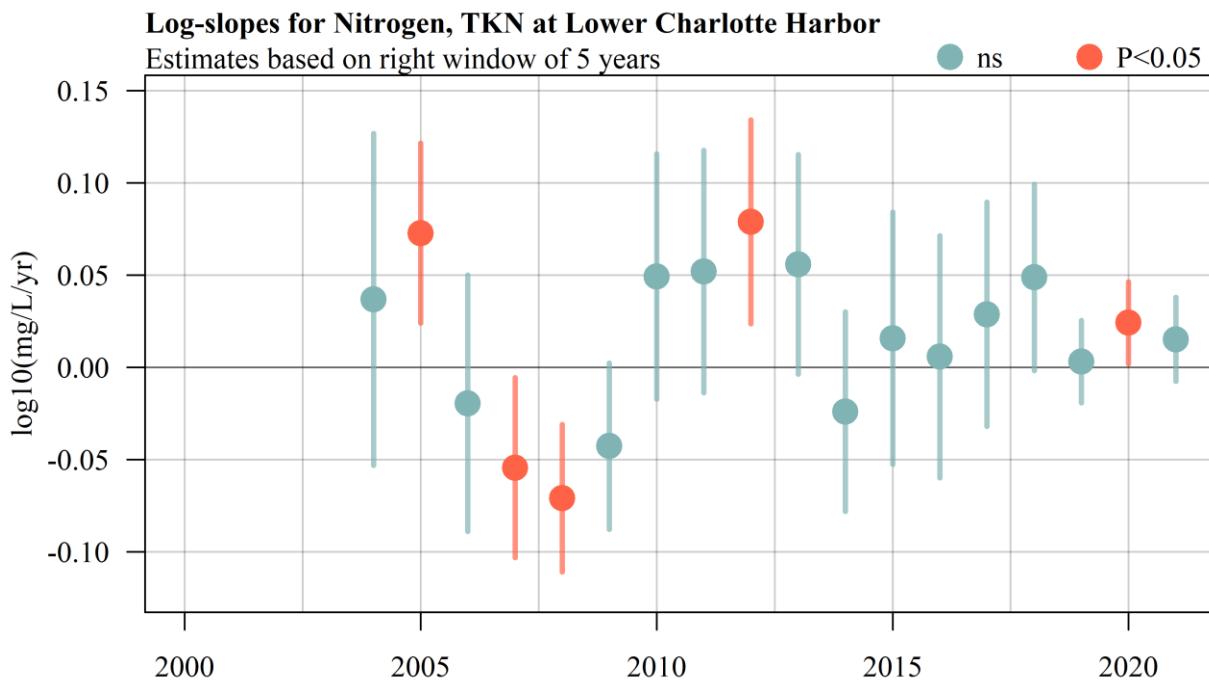
Log-slopes for Nitrogen, NOx-N at Lower Charlotte Harbor

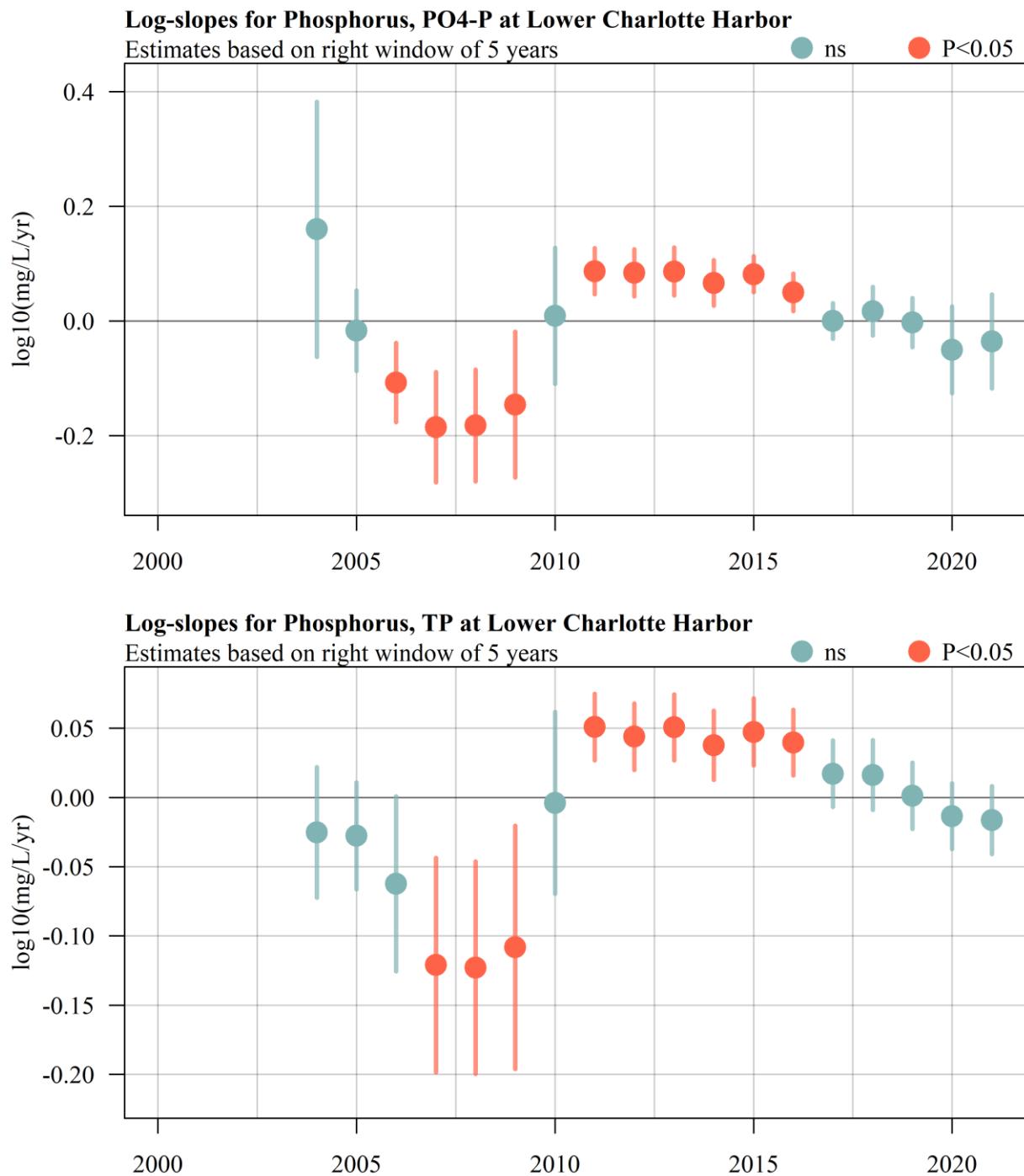
Estimates based on right window of 5 years

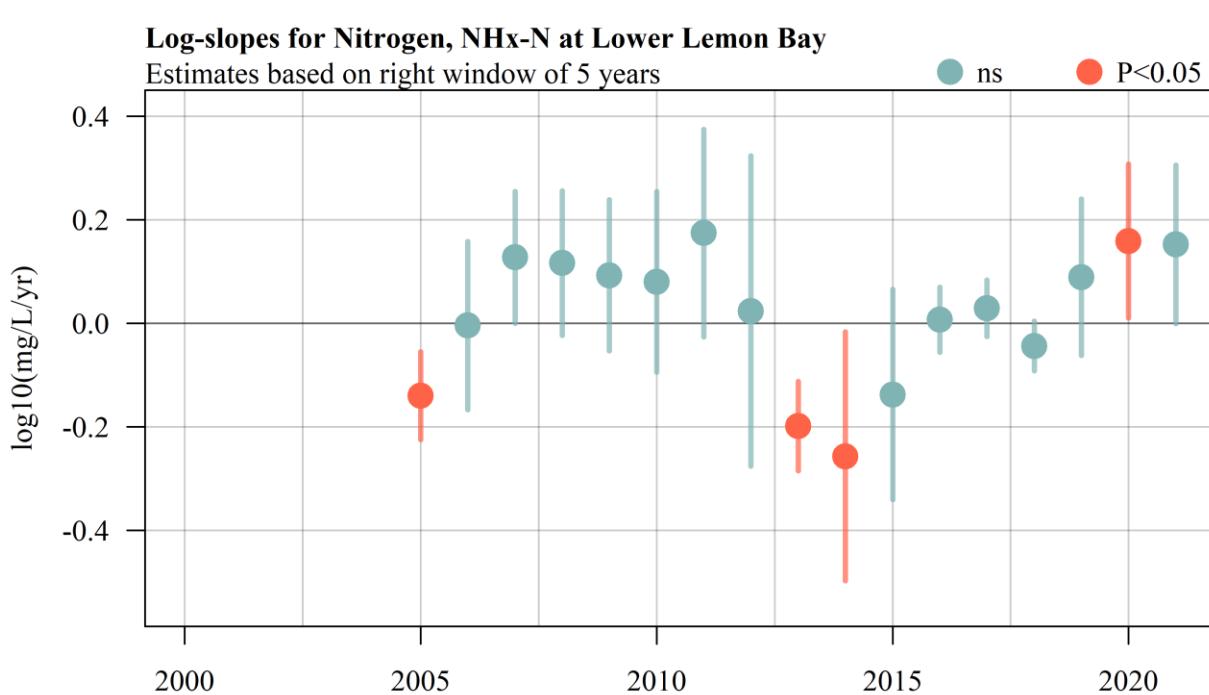
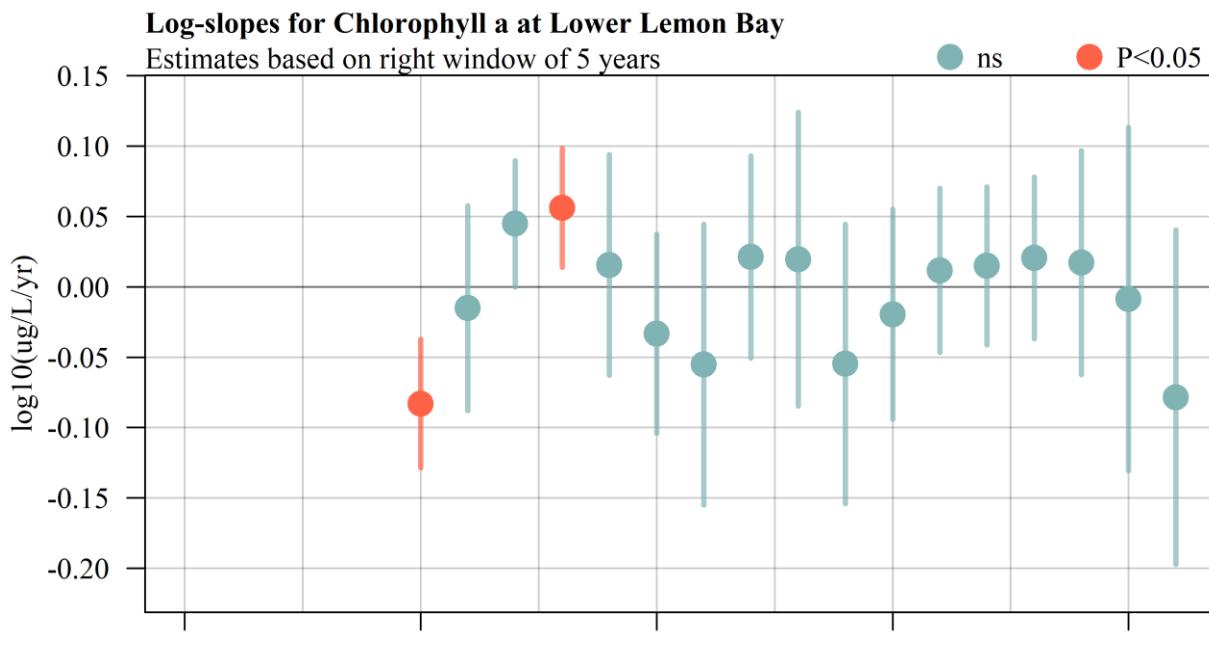
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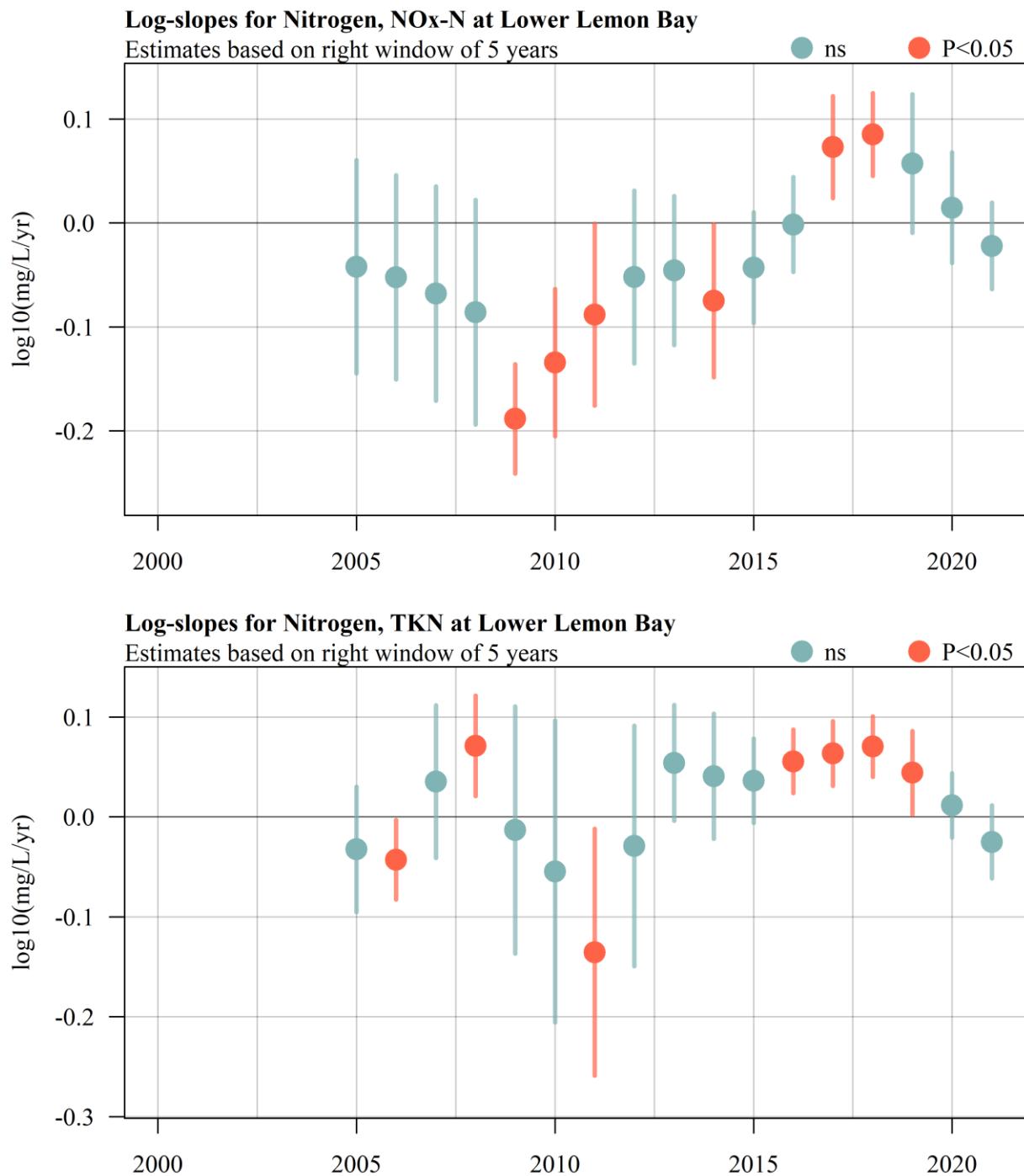
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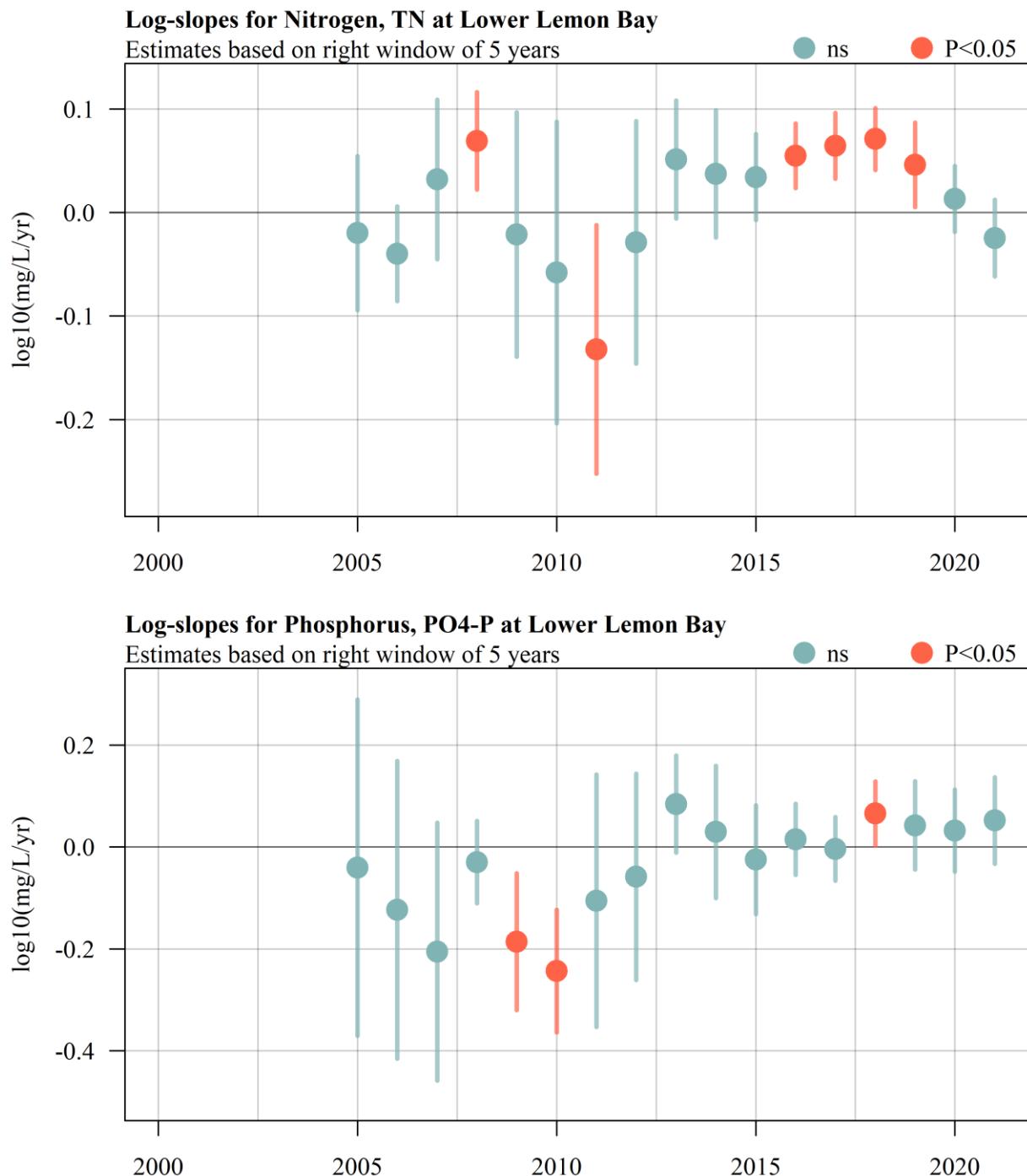


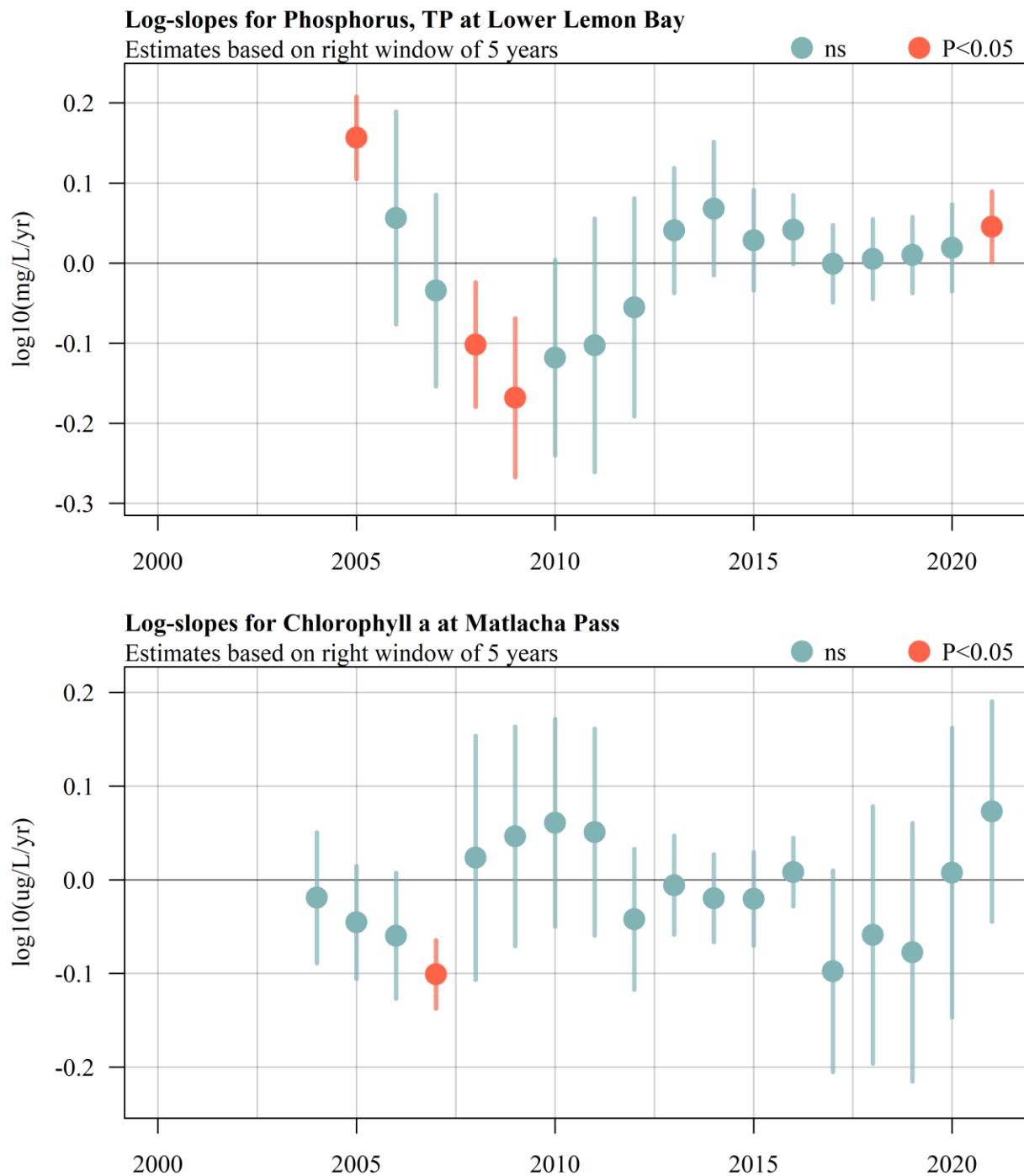






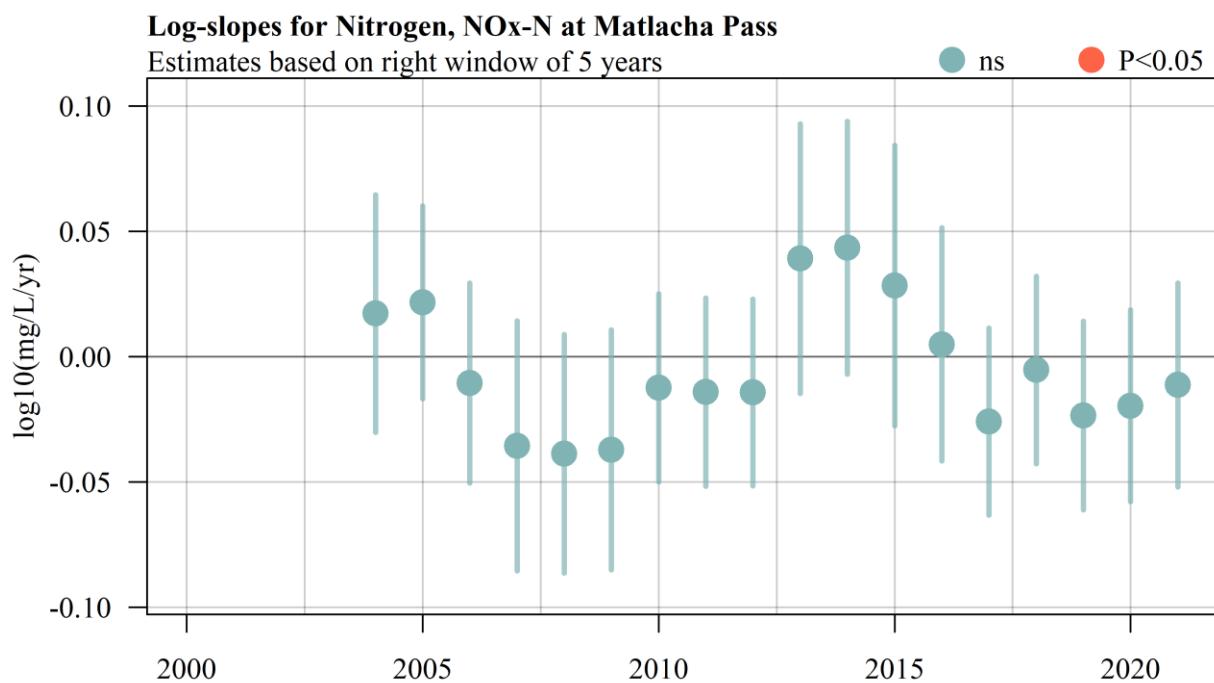


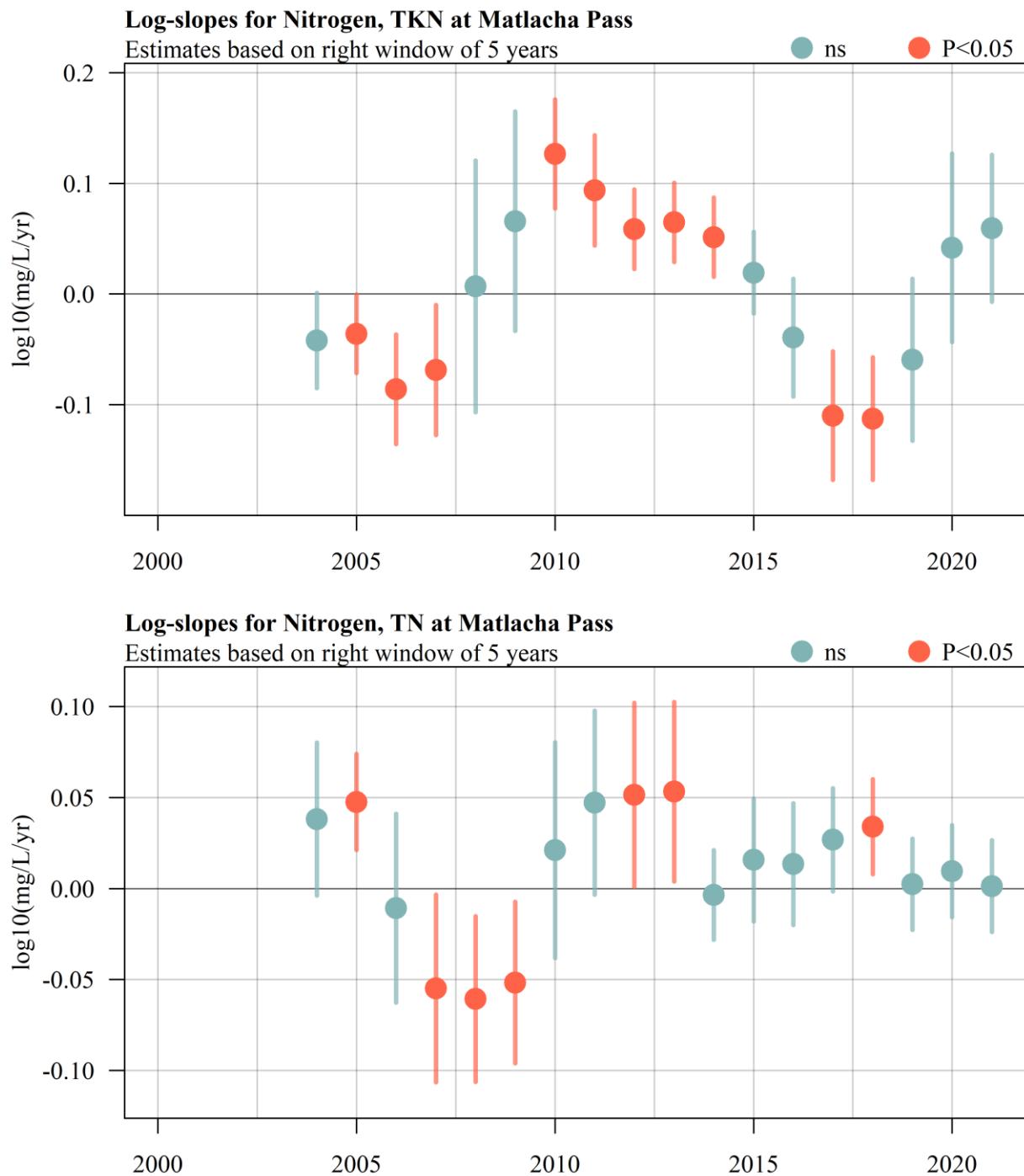


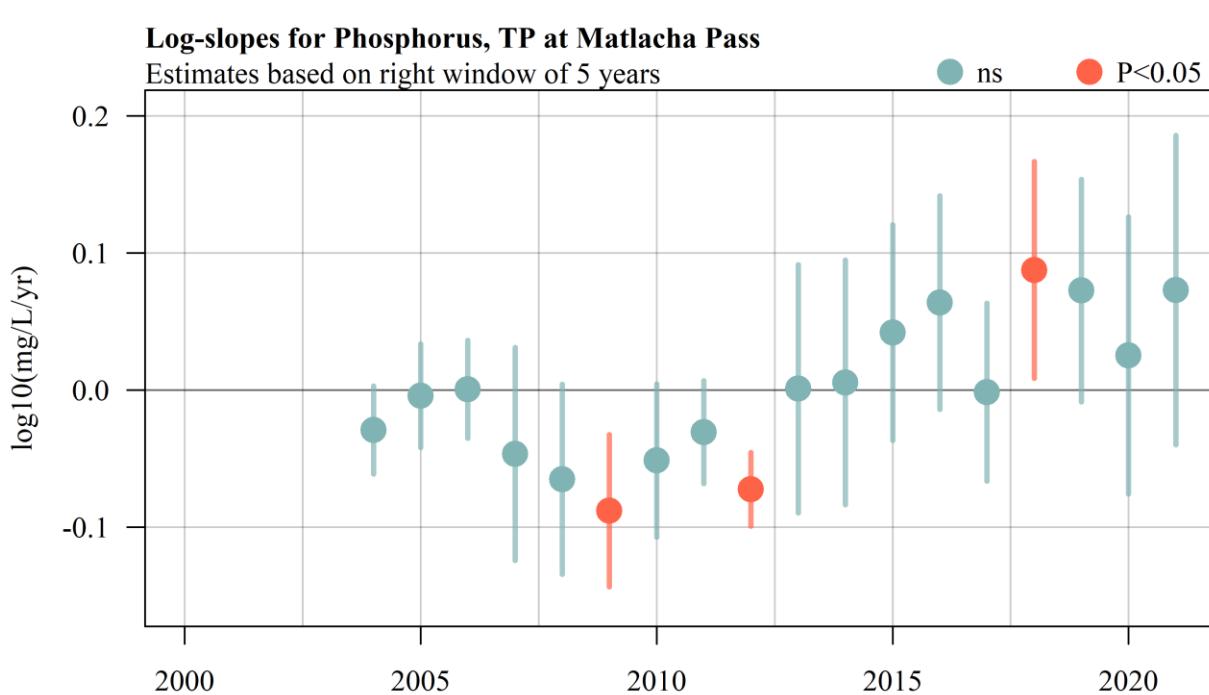
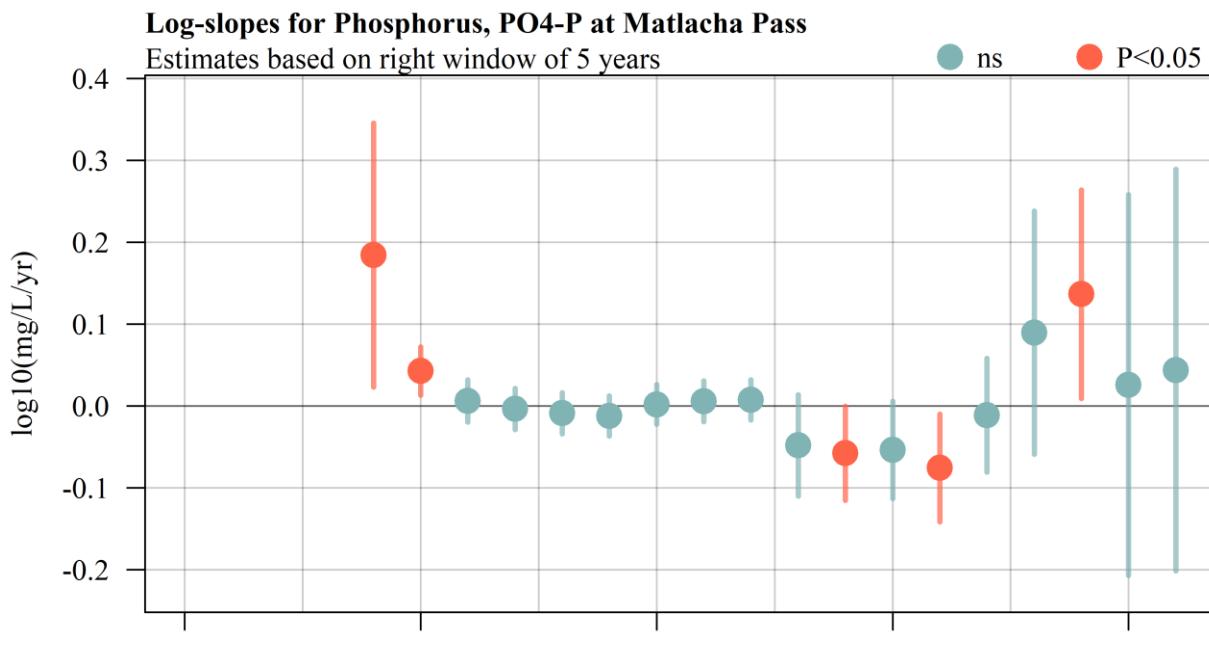


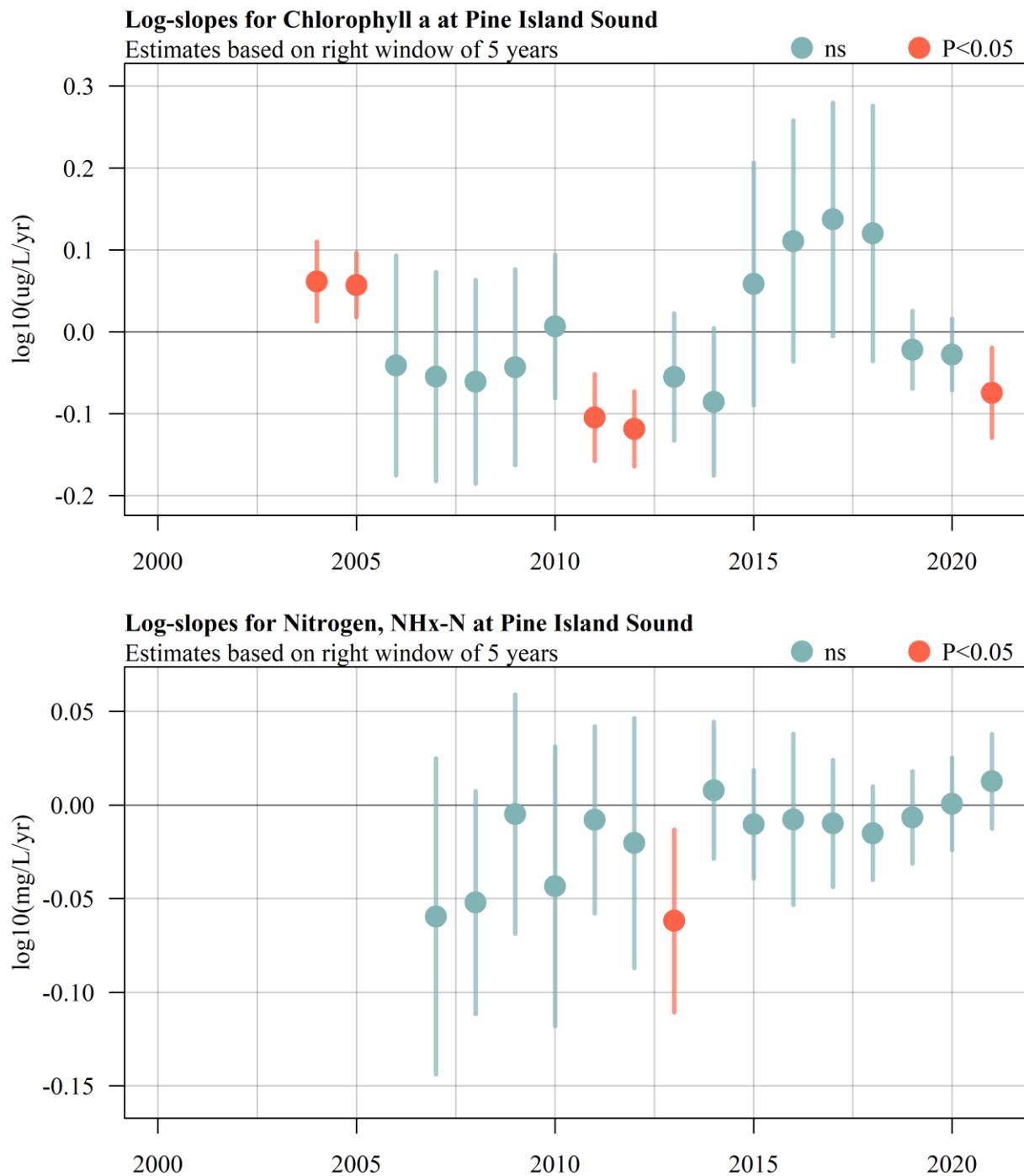
No trend slopes for Matlacha Pass, Nitrogen, NHx-N

(insufficient data)







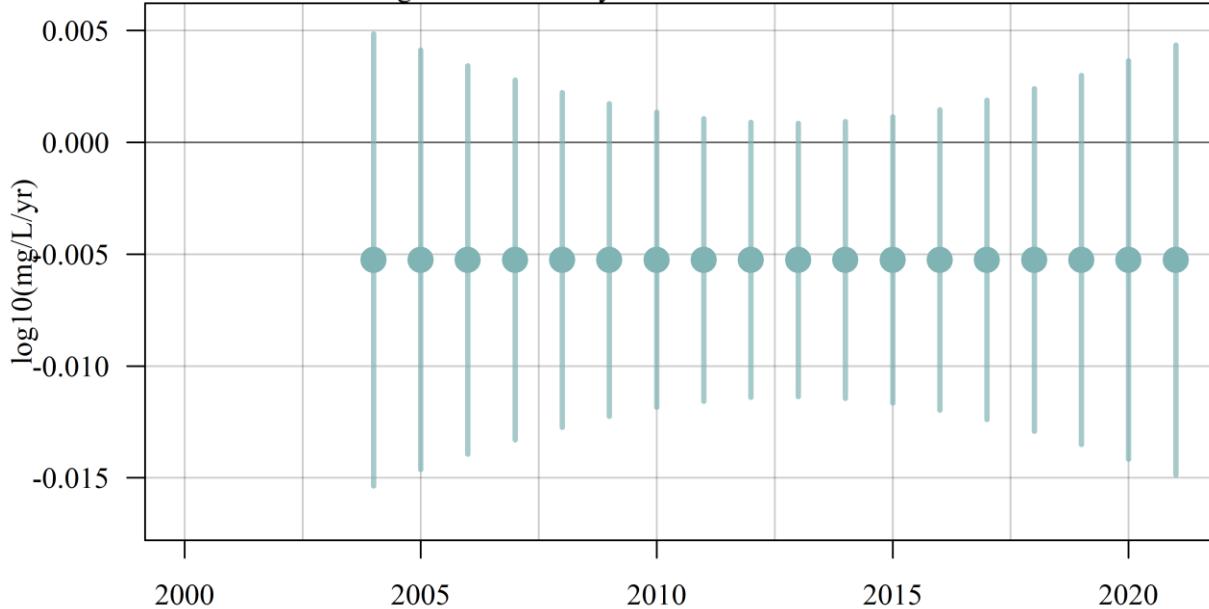


Log-slopes for Nitrogen, NOx-N at Pine Island Sound

Estimates based on right window of 5 years

ns

P<0.05

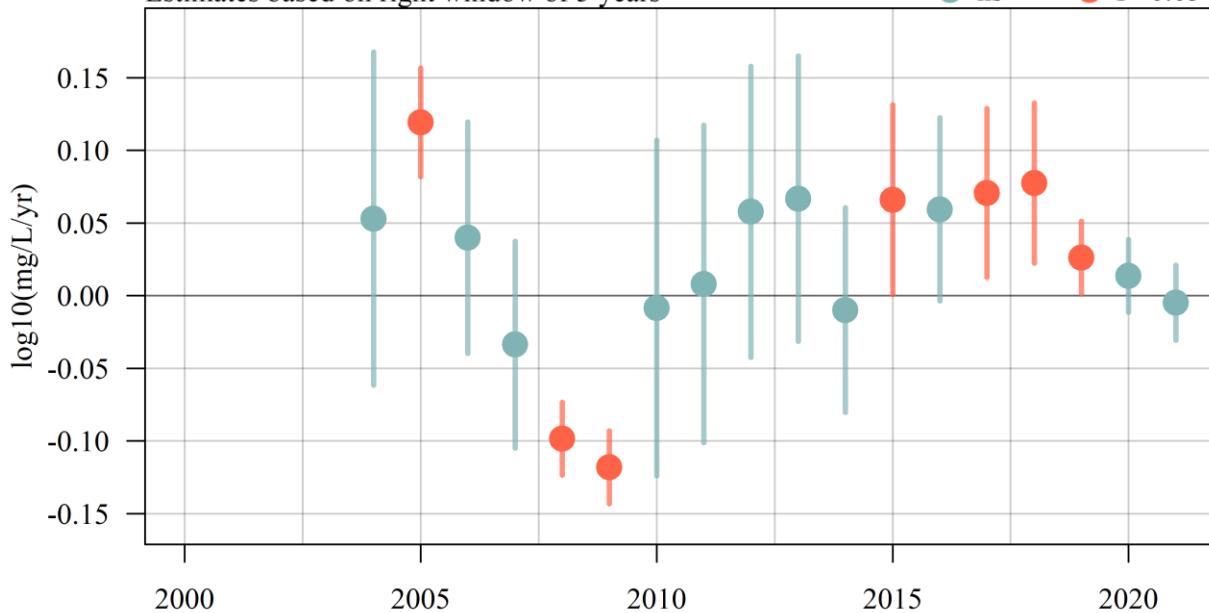


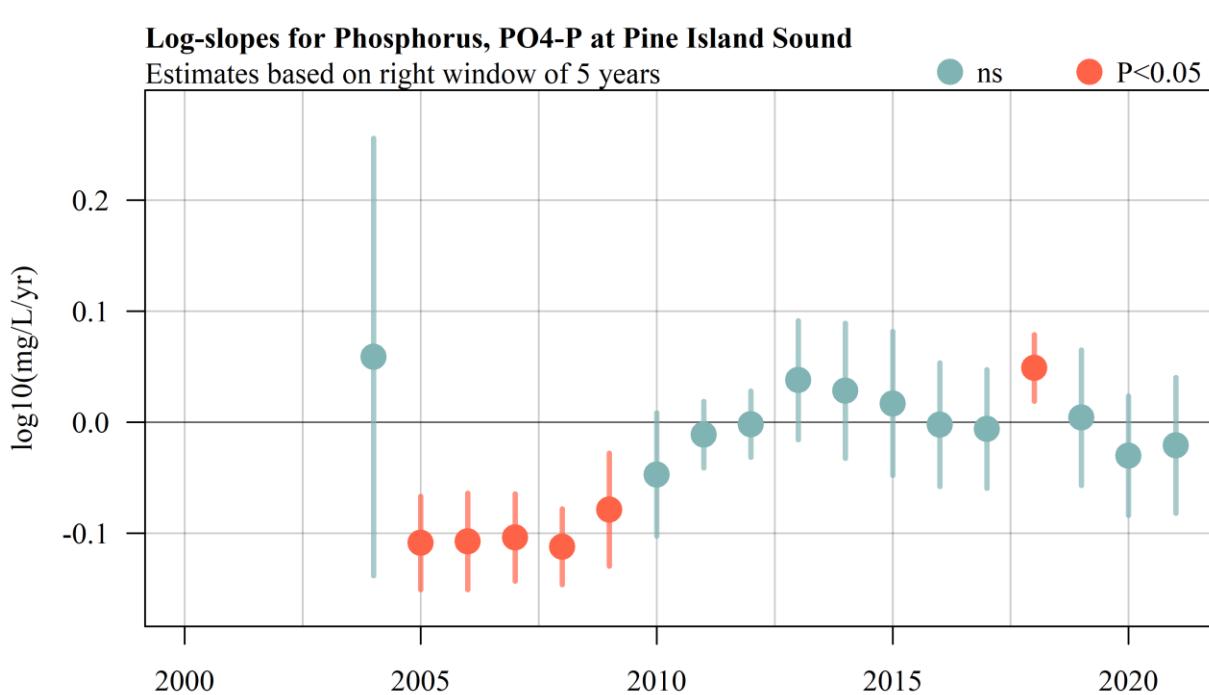
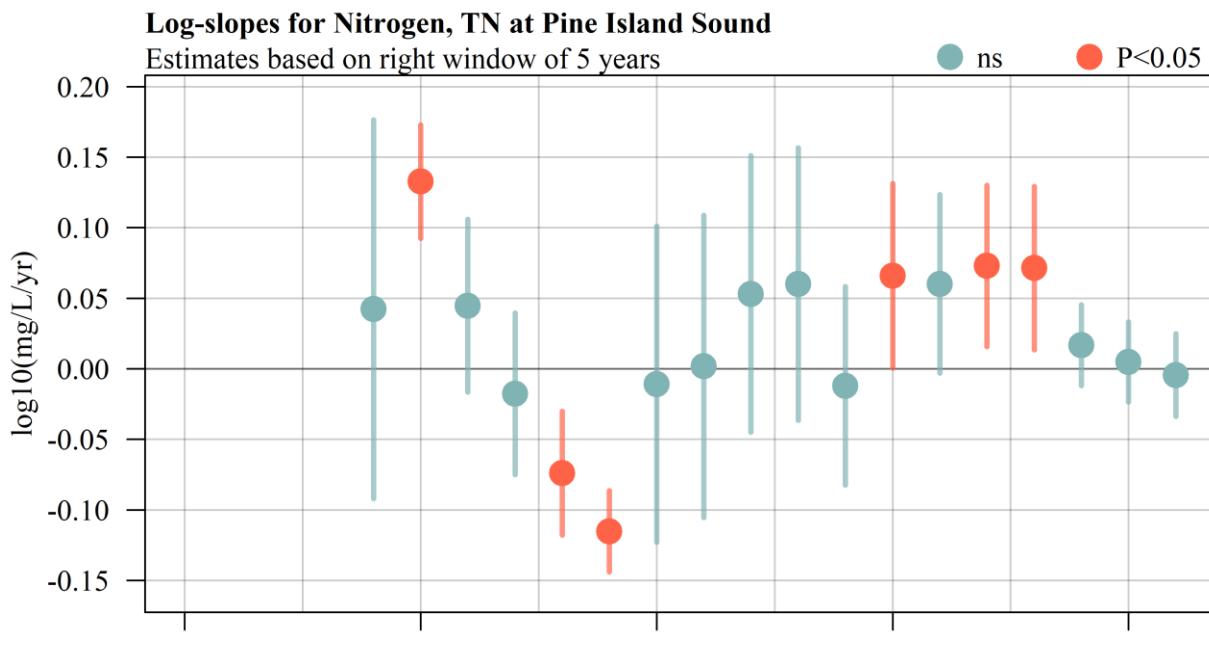
Log-slopes for Nitrogen, TKN at Pine Island Sound

Estimates based on right window of 5 years

ns

P<0.05



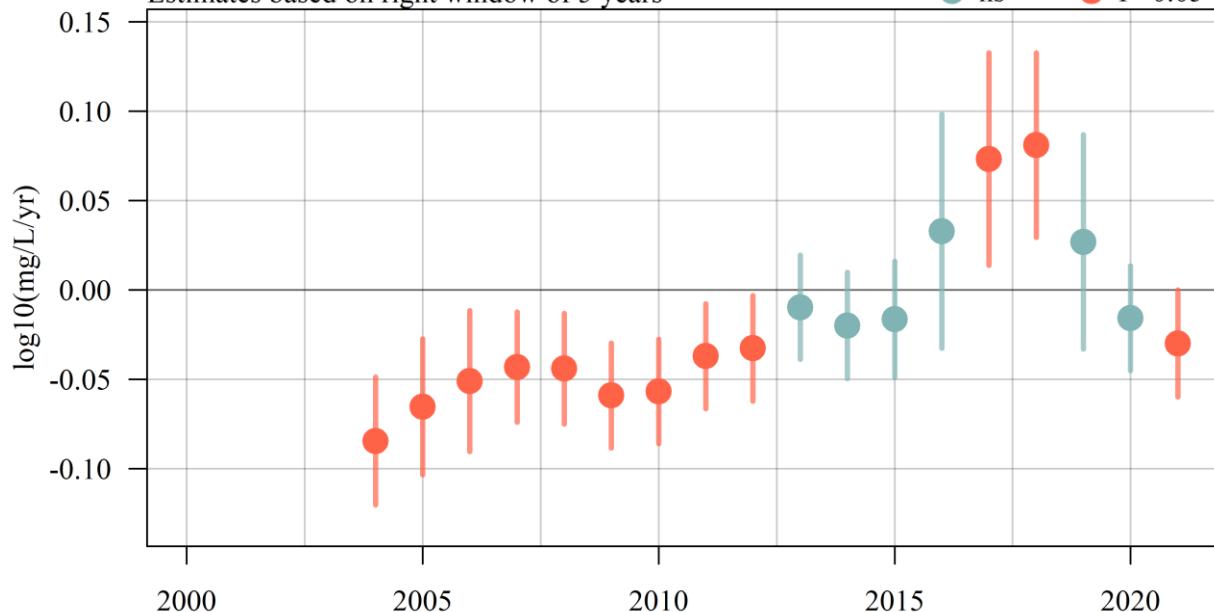


Log-slopes for Phosphorus, TP at Pine Island Sound

Estimates based on right window of 5 years

ns

P<0.05

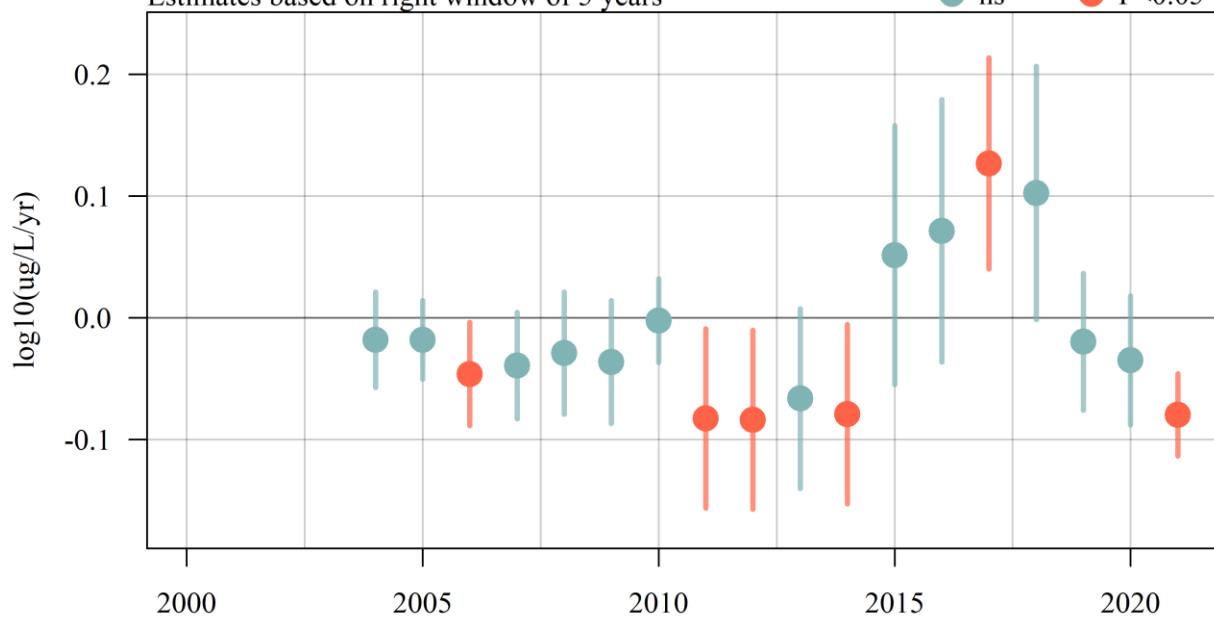


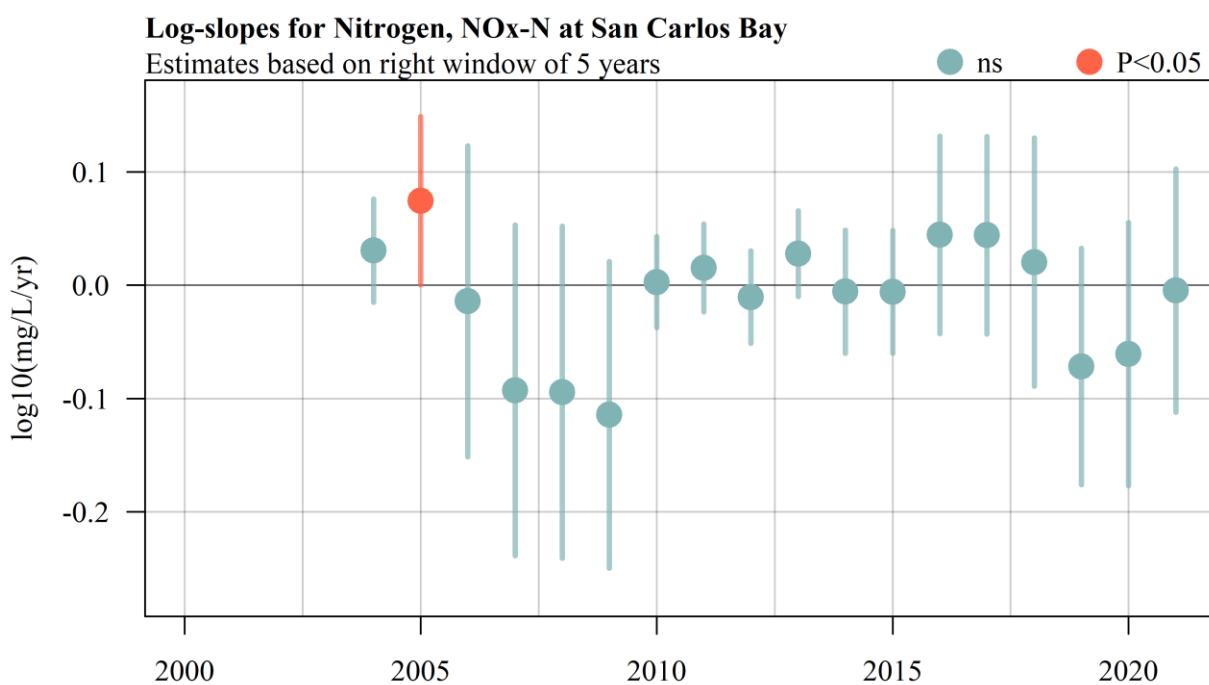
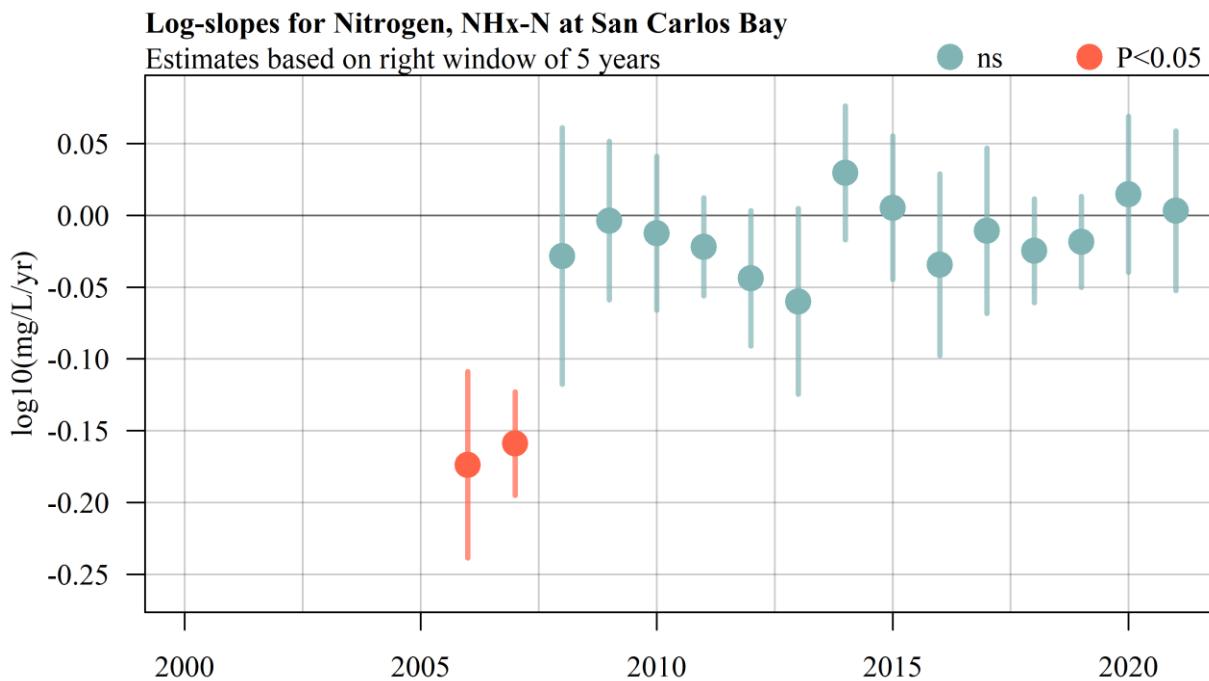
Log-slopes for Chlorophyll a at San Carlos Bay

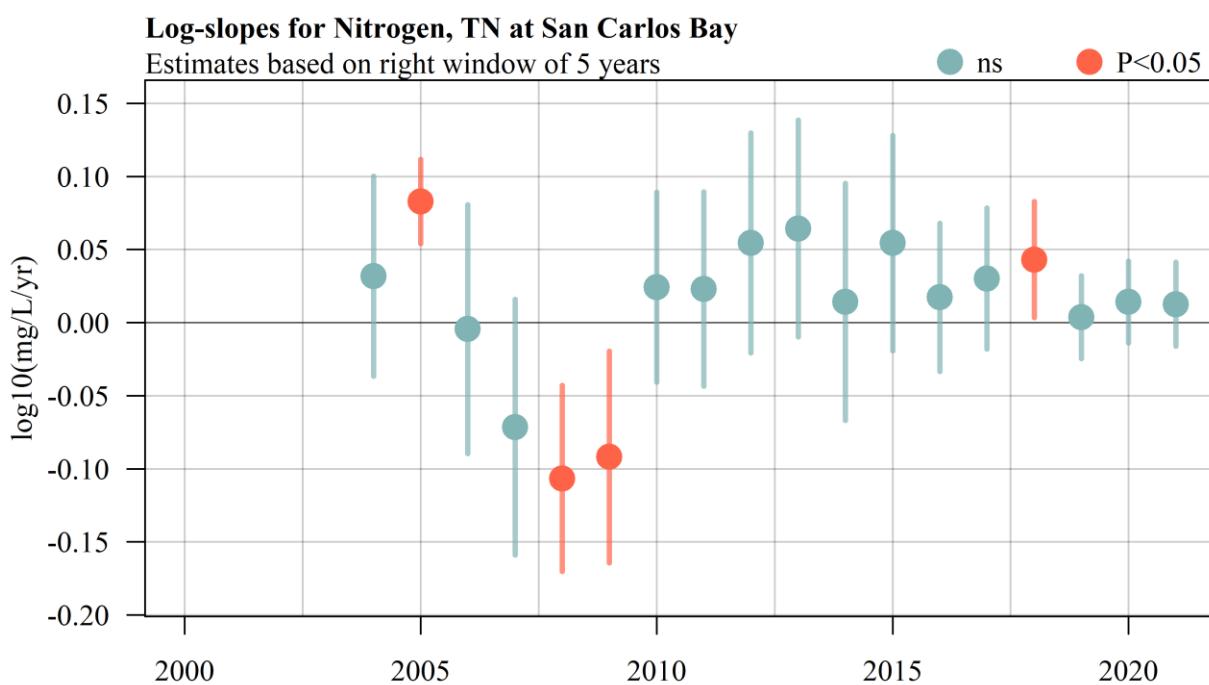
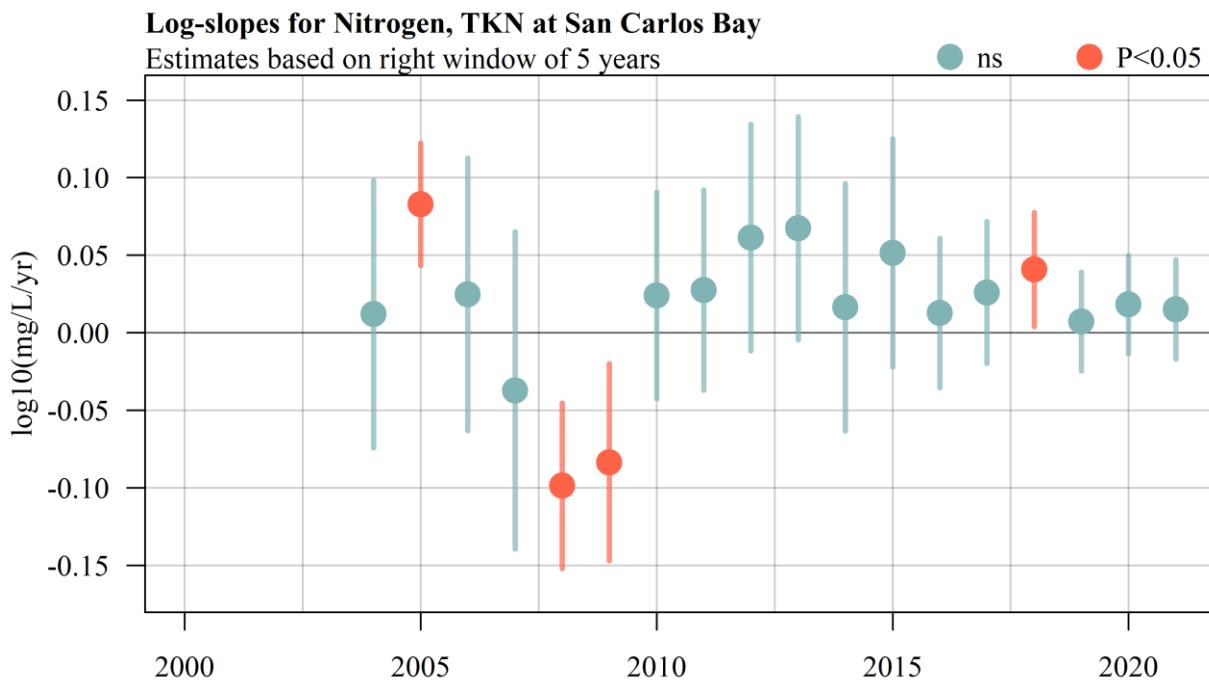
Estimates based on right window of 5 years

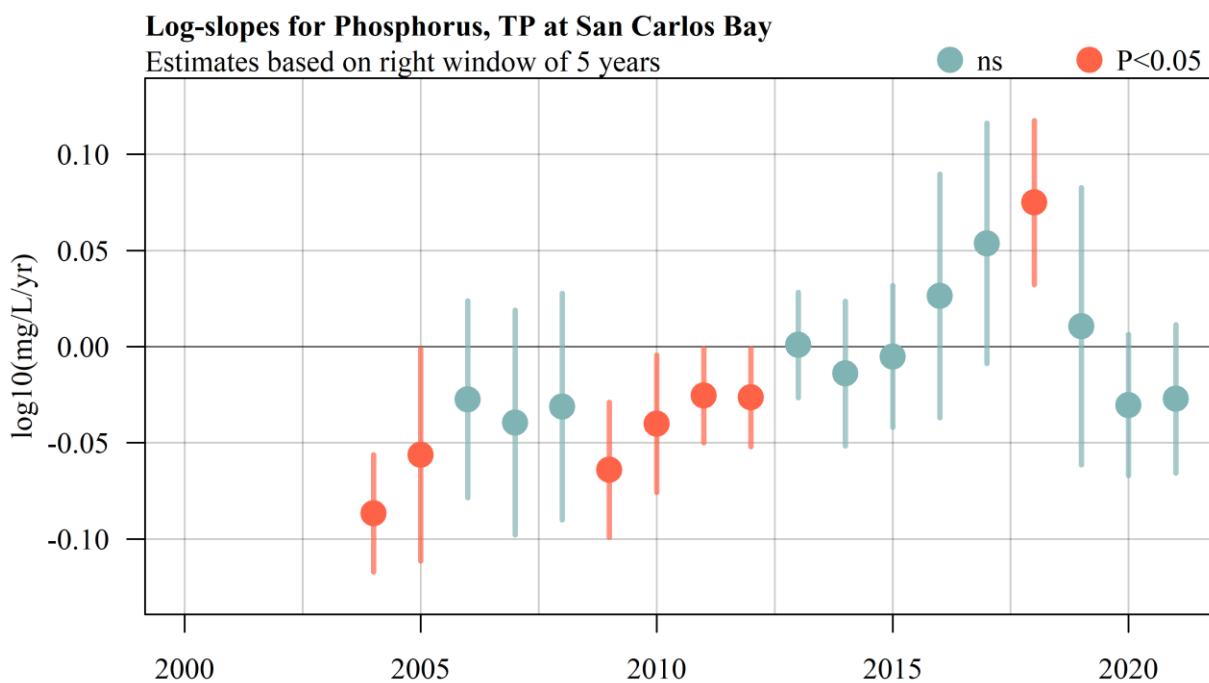
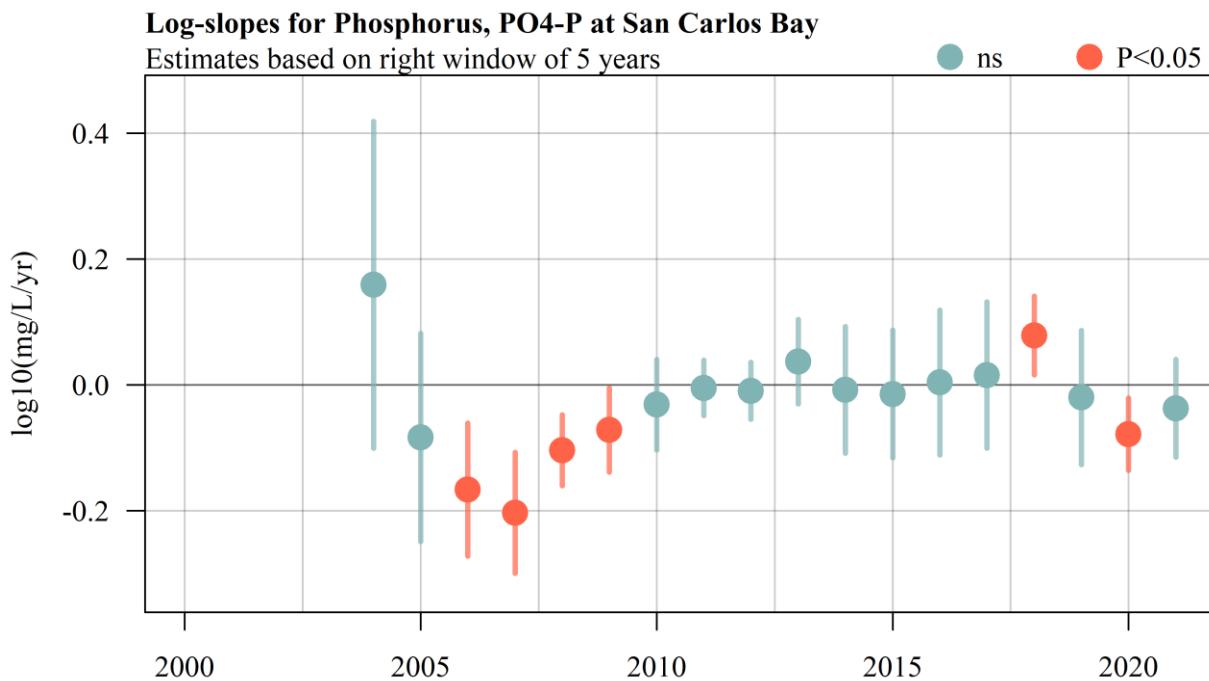
ns

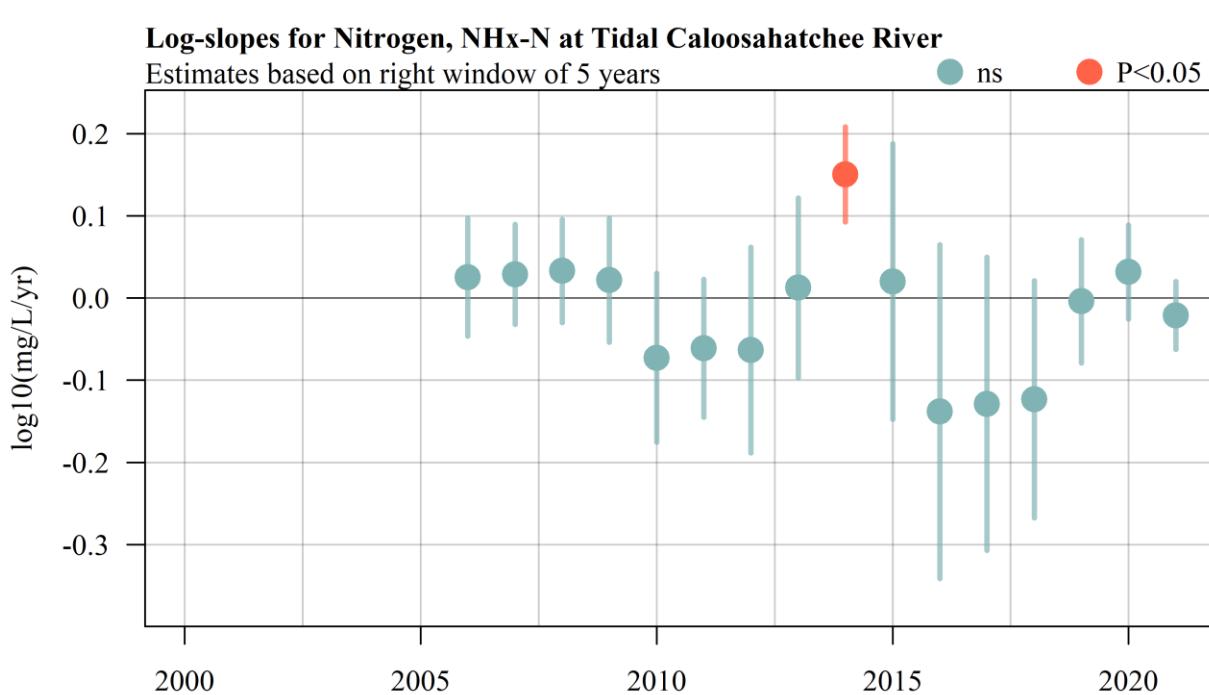
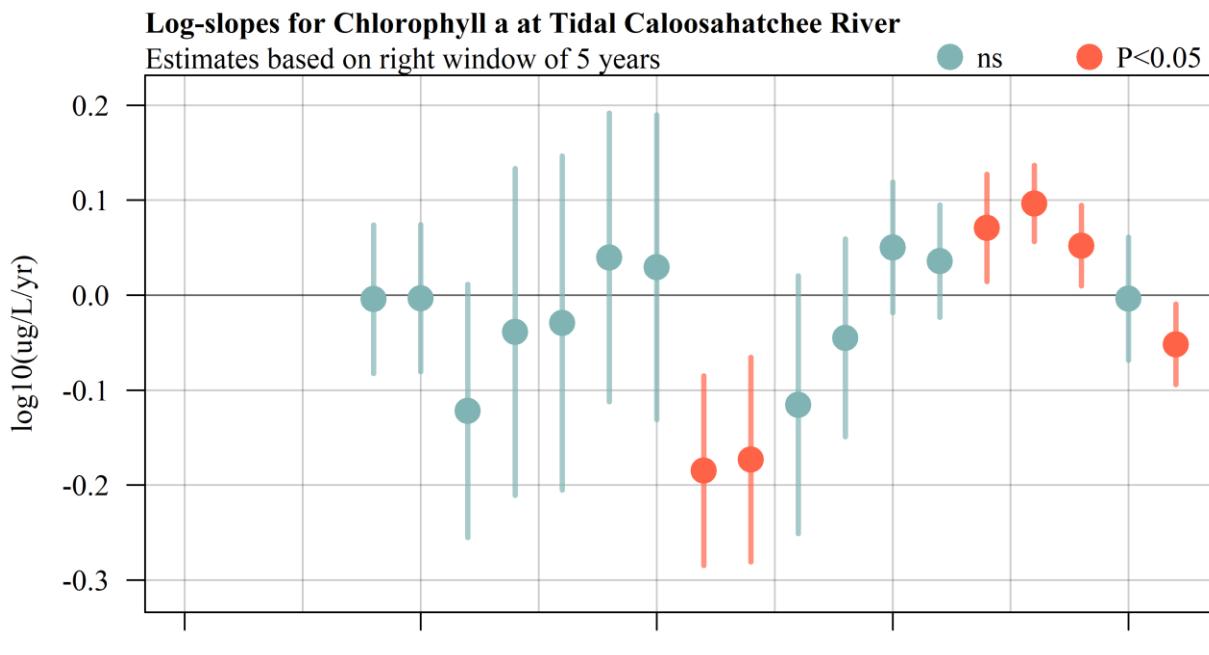
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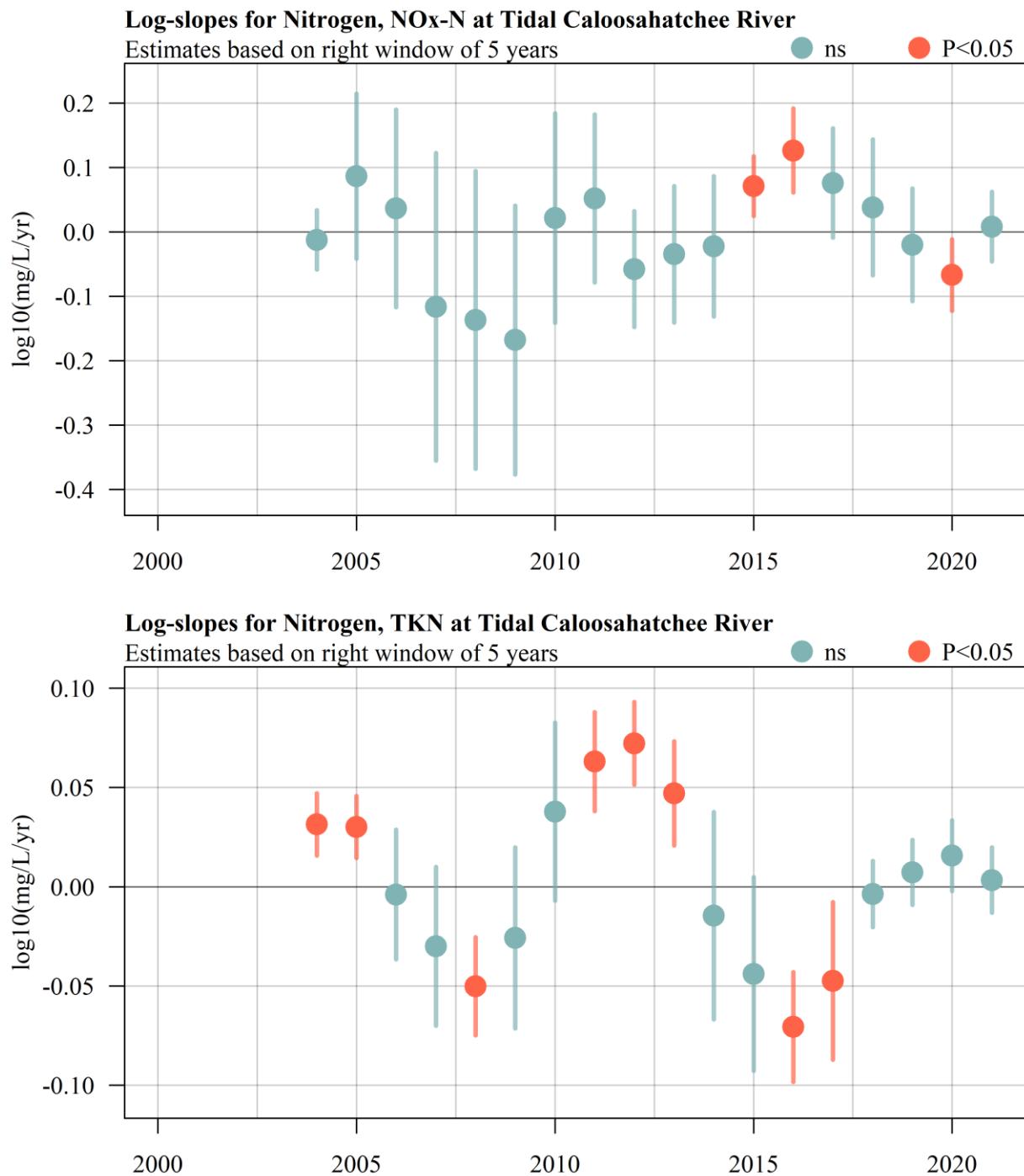


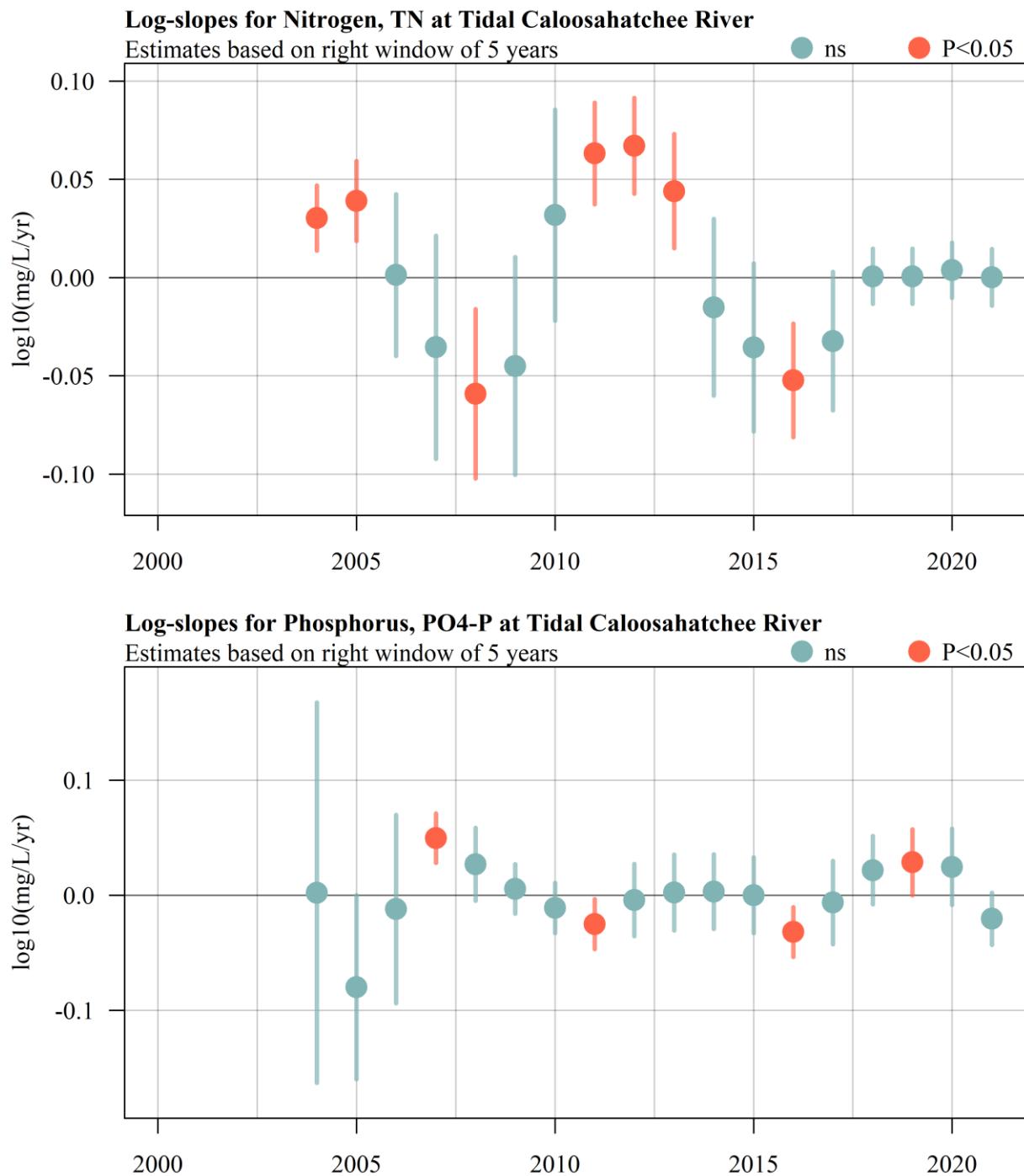










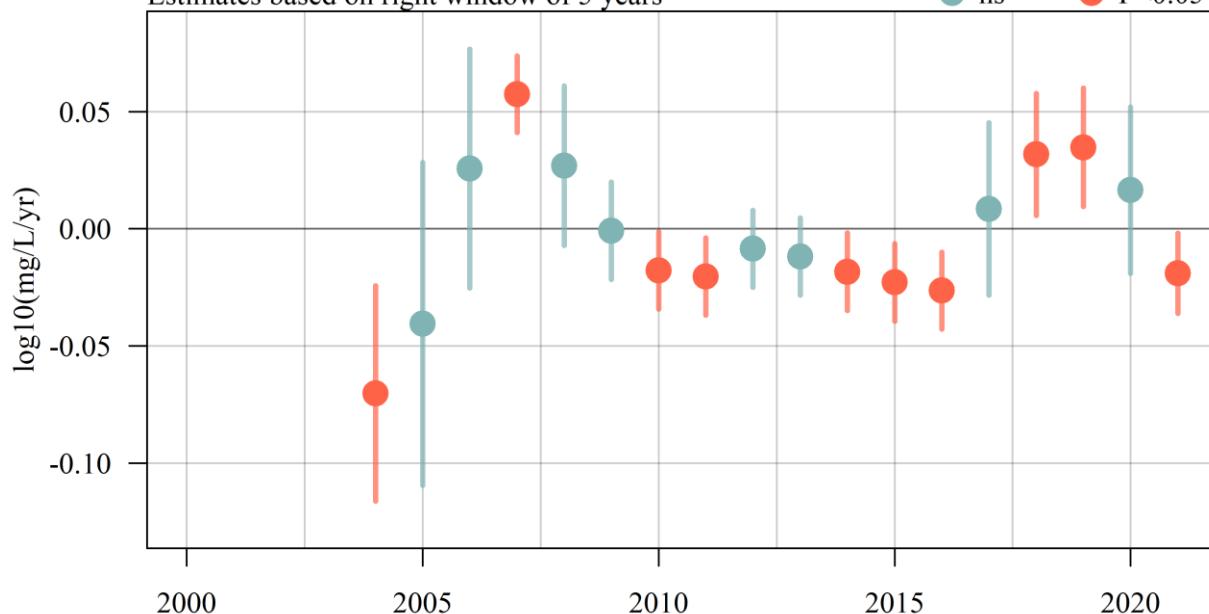


Log-slopes for Phosphorus, TP at Tidal Caloosahatchee River

Estimates based on right window of 5 years

ns

P<0.05

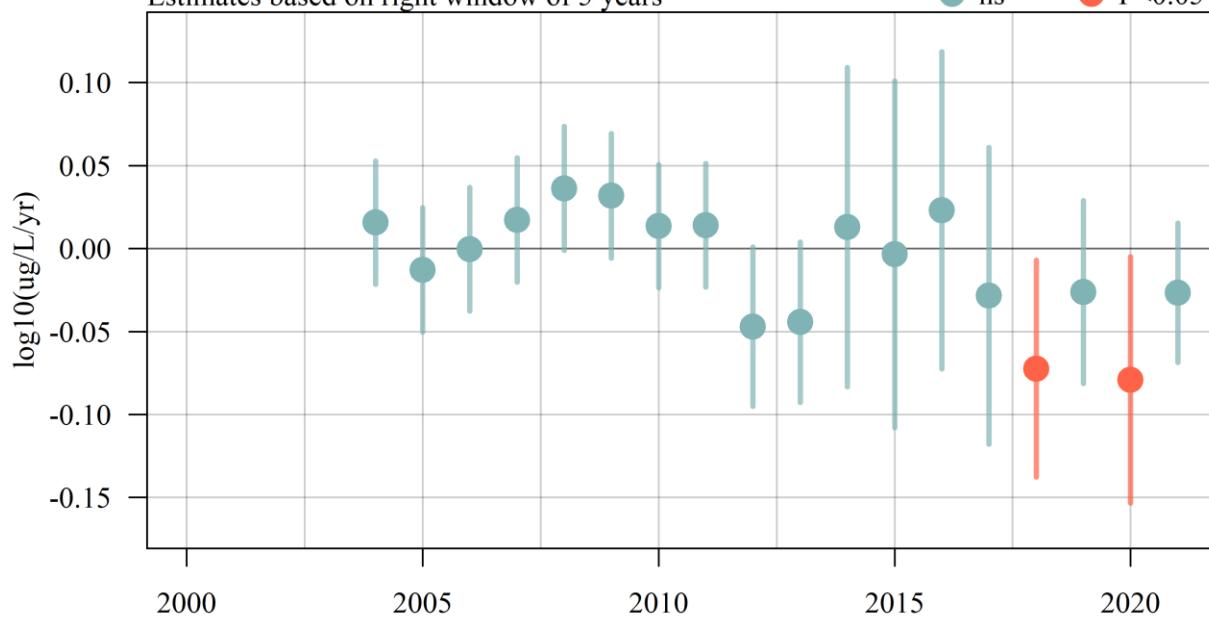


Log-slopes for Chlorophyll a at Tidal Myakka River

Estimates based on right window of 5 years

ns

P<0.05

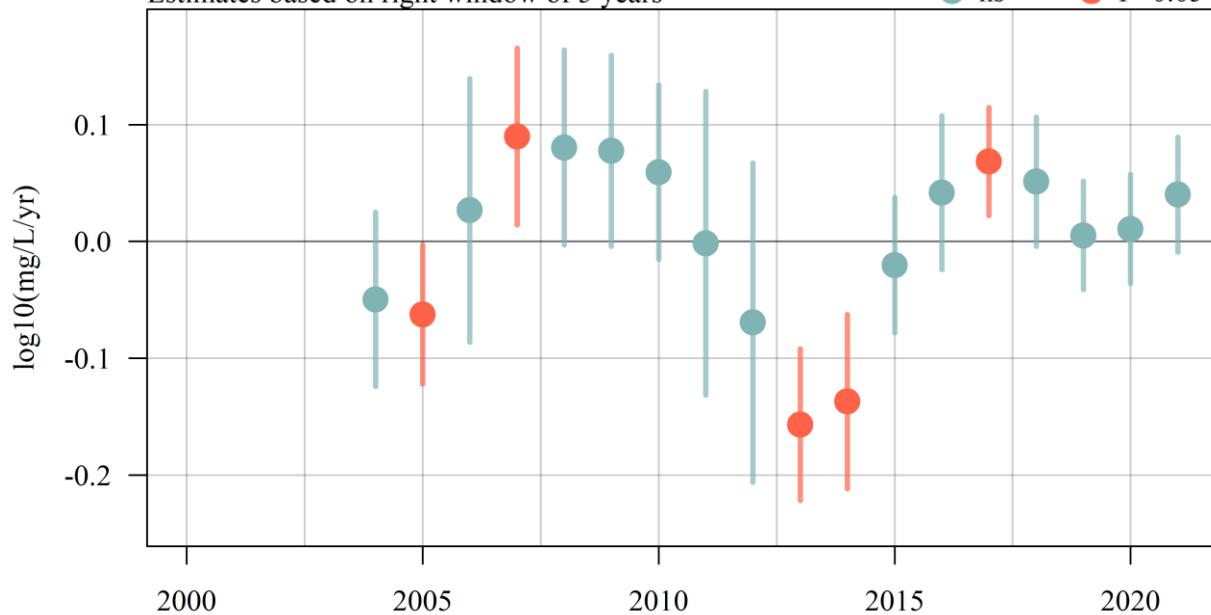


Log-slopes for Nitrogen, NHx-N at Tidal Myakka River

Estimates based on right window of 5 years

ns

P<0.05

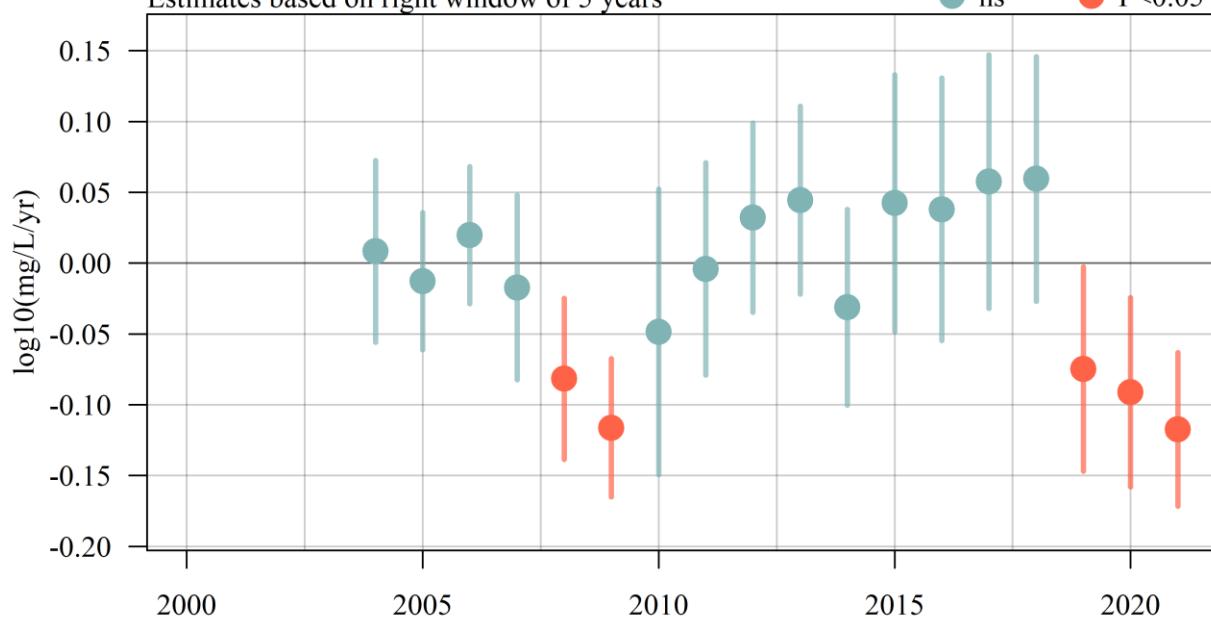


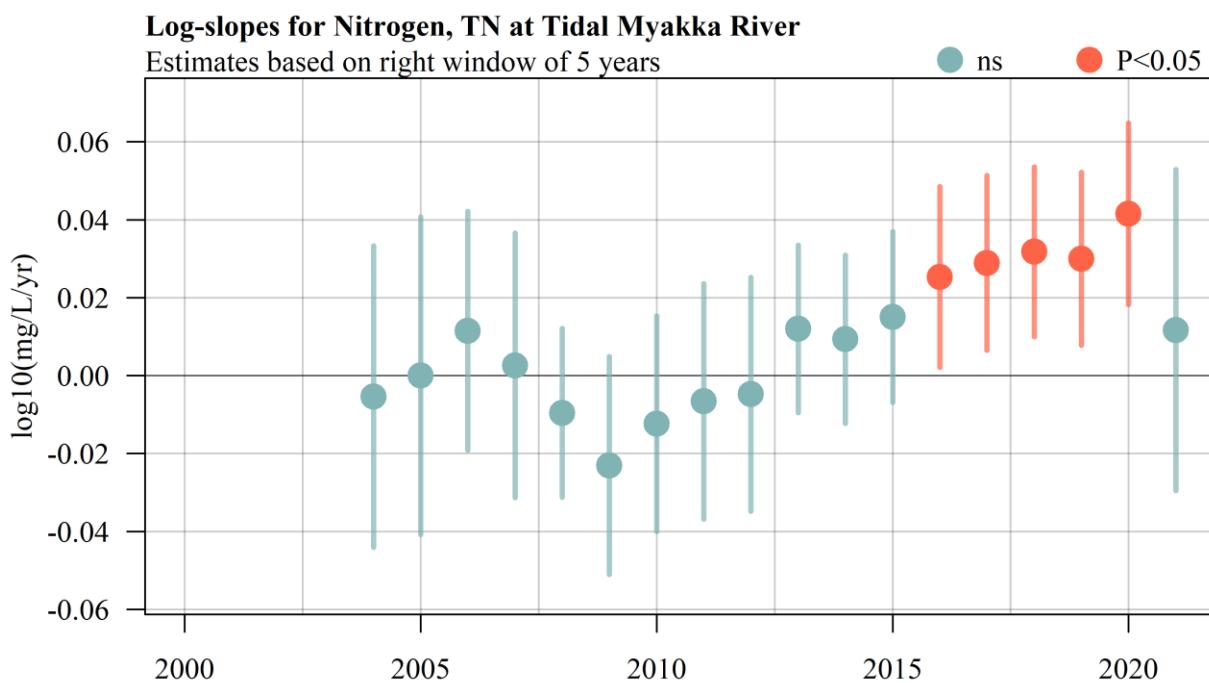
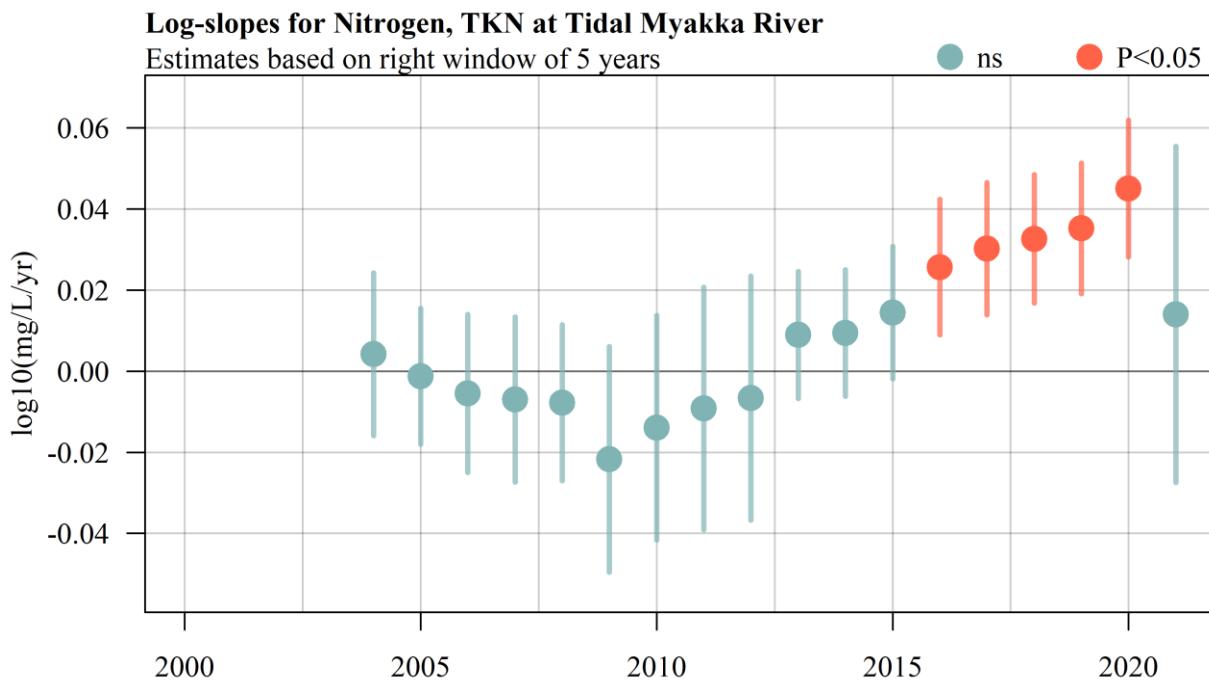
Log-slopes for Nitrogen, NOx-N at Tidal Myakka River

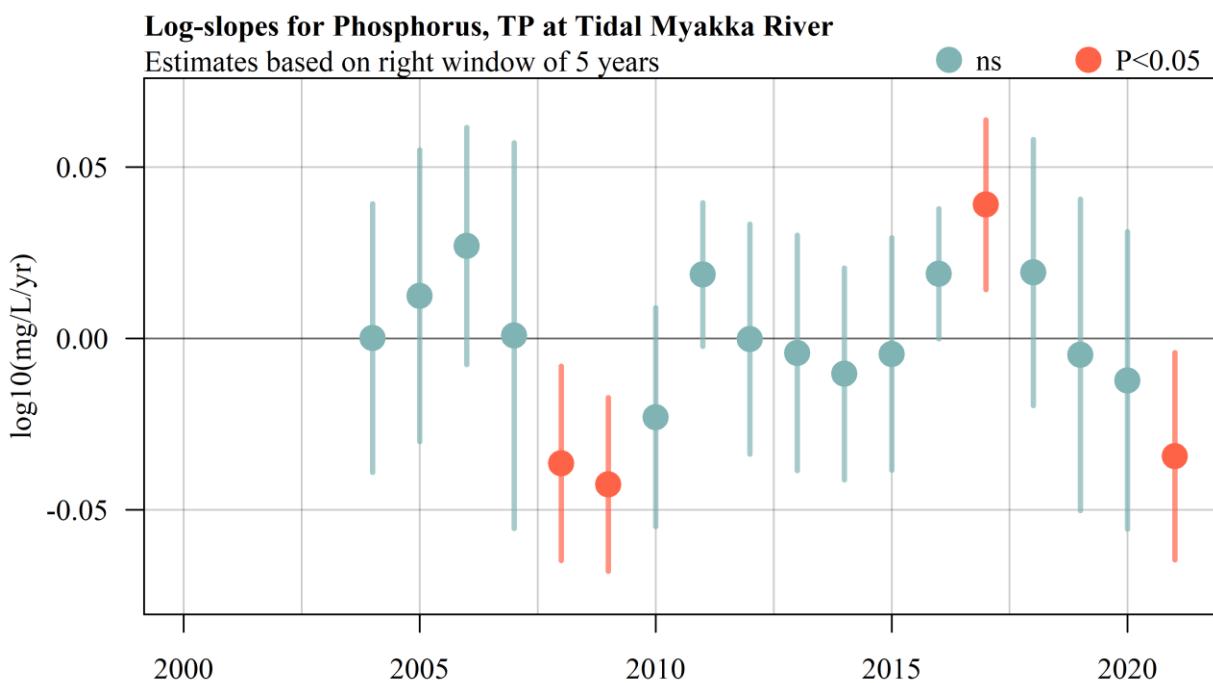
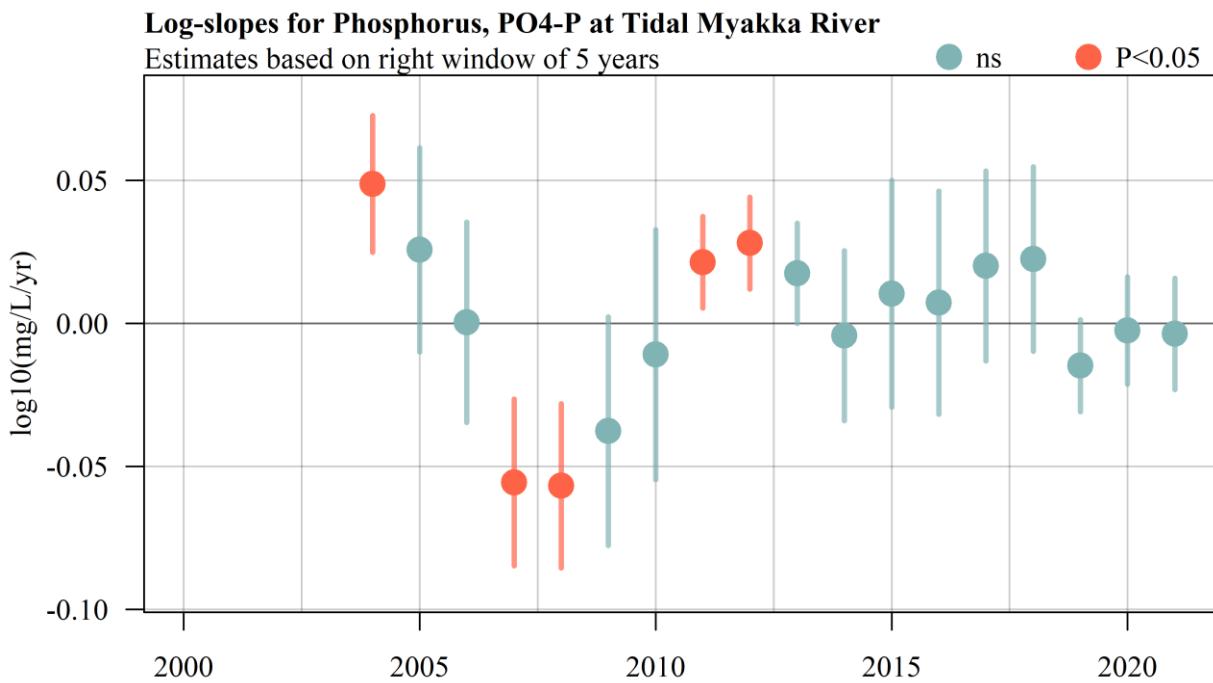
Estimates based on right window of 5 years

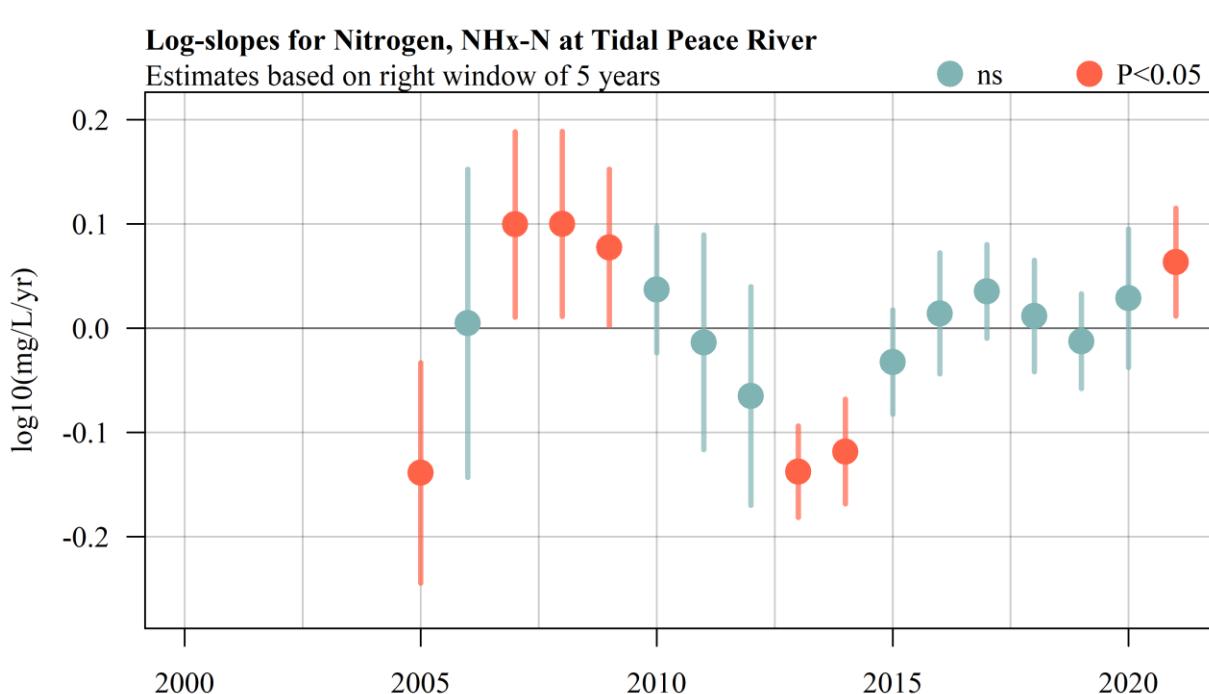
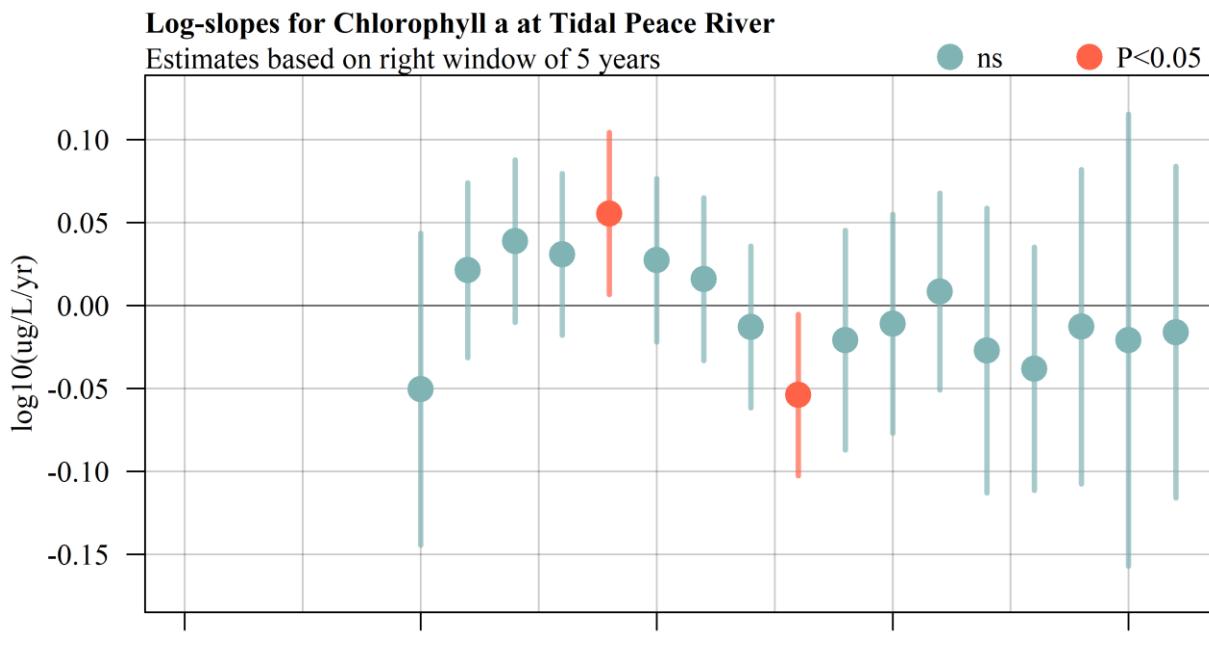
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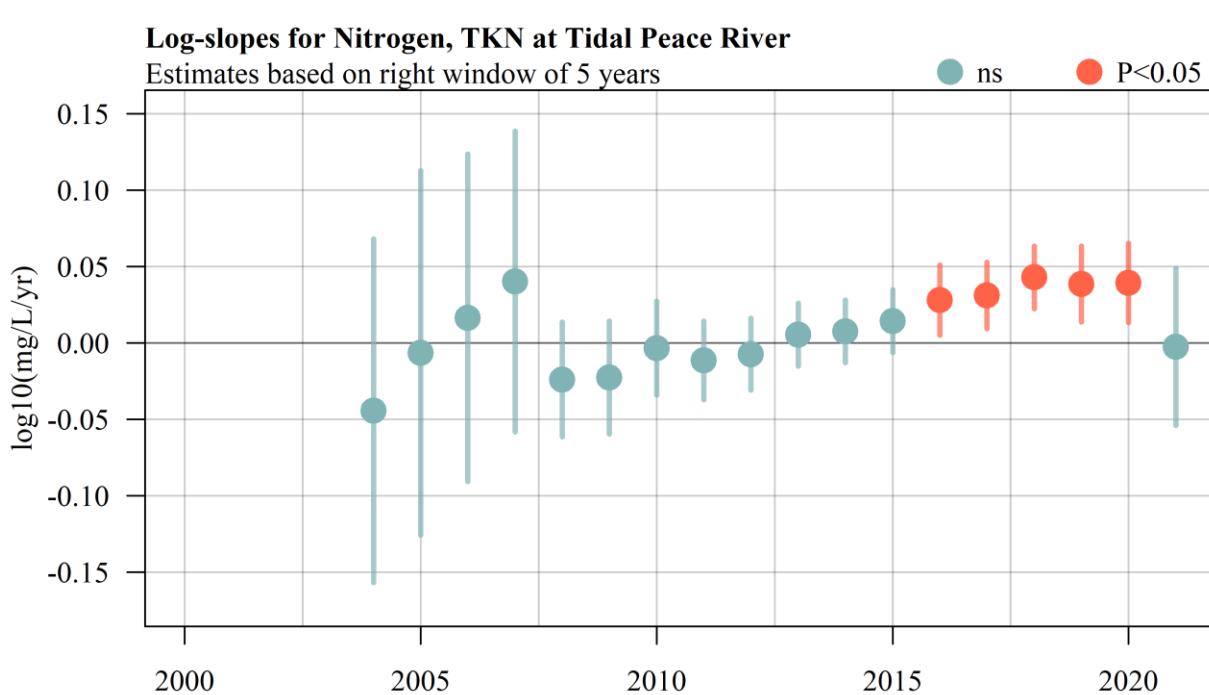
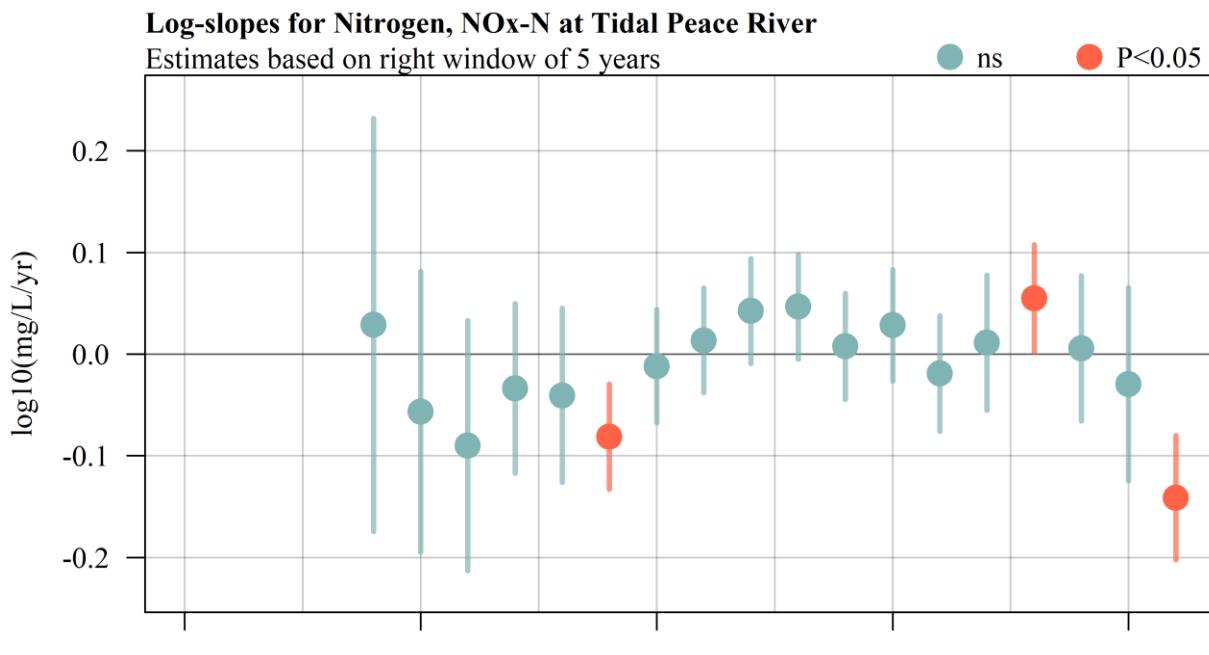
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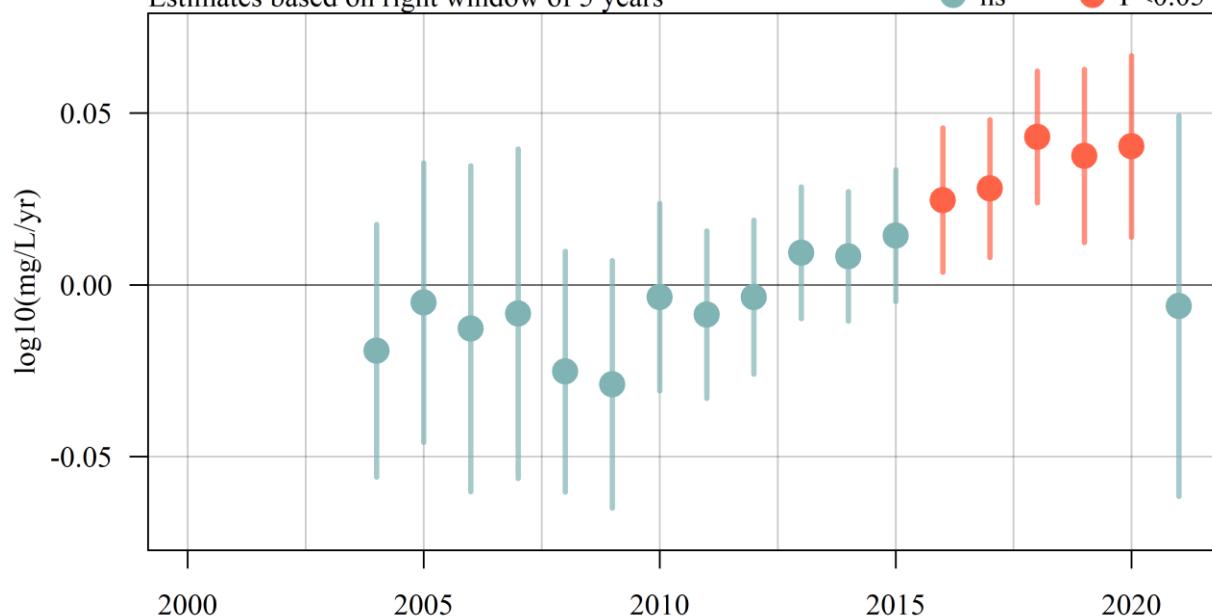


Log-slopes for Nitrogen, TN at Tidal Peace River

Estimates based on right window of 5 years

ns

P<0.05

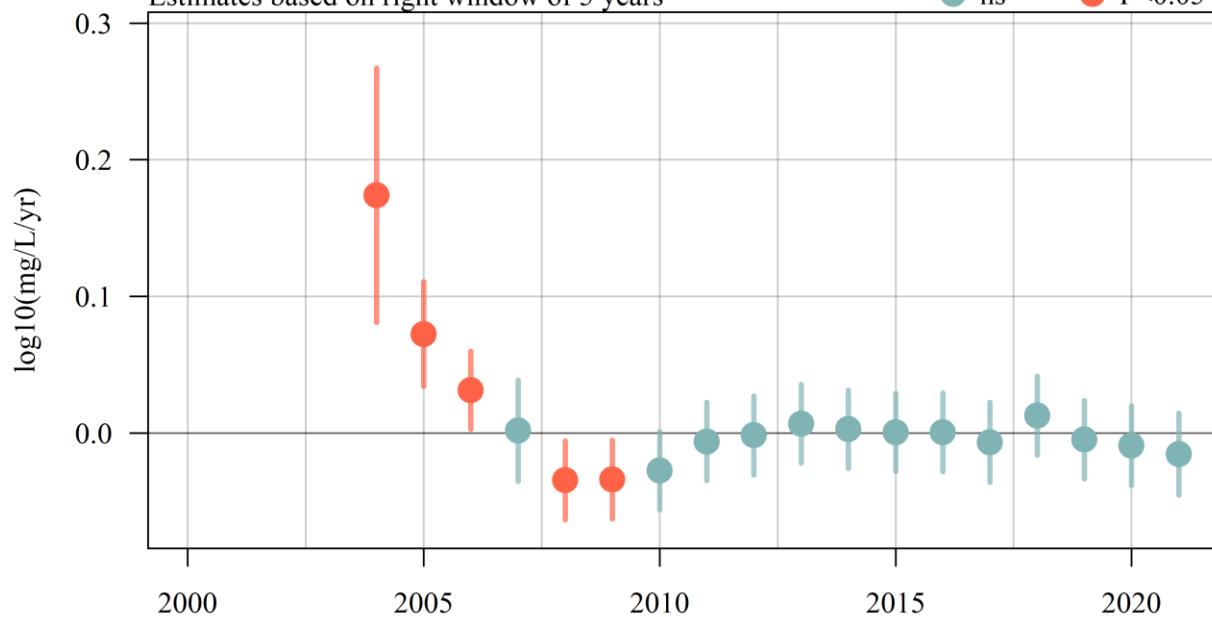


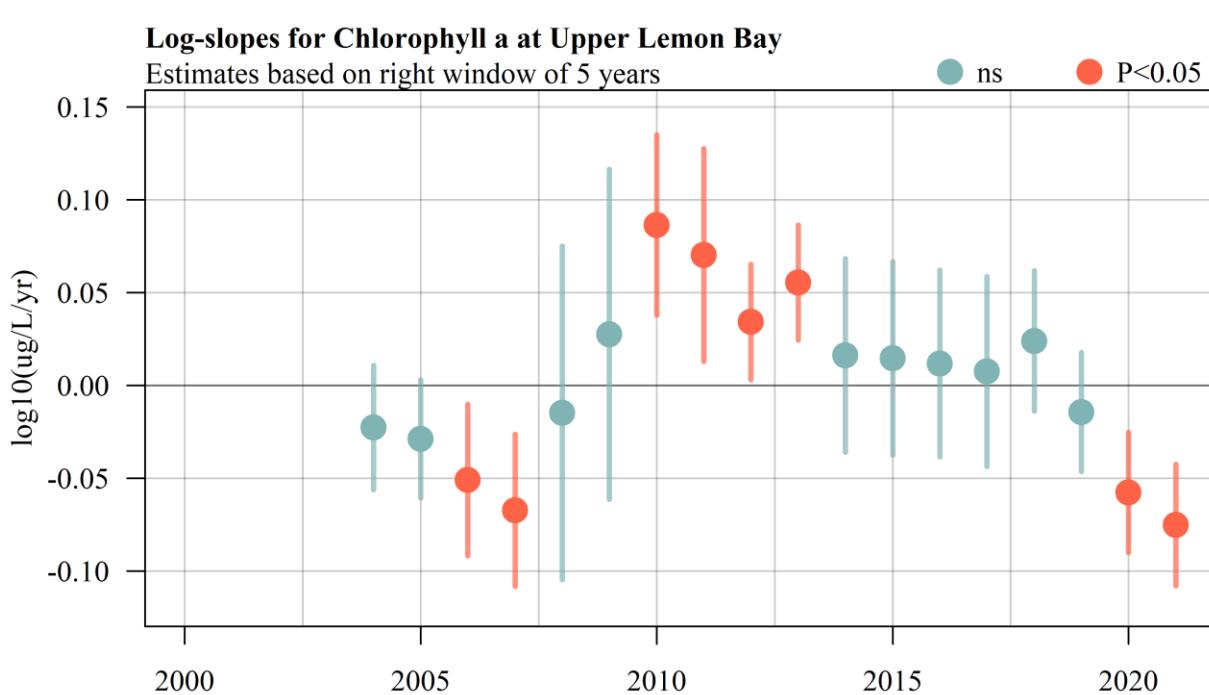
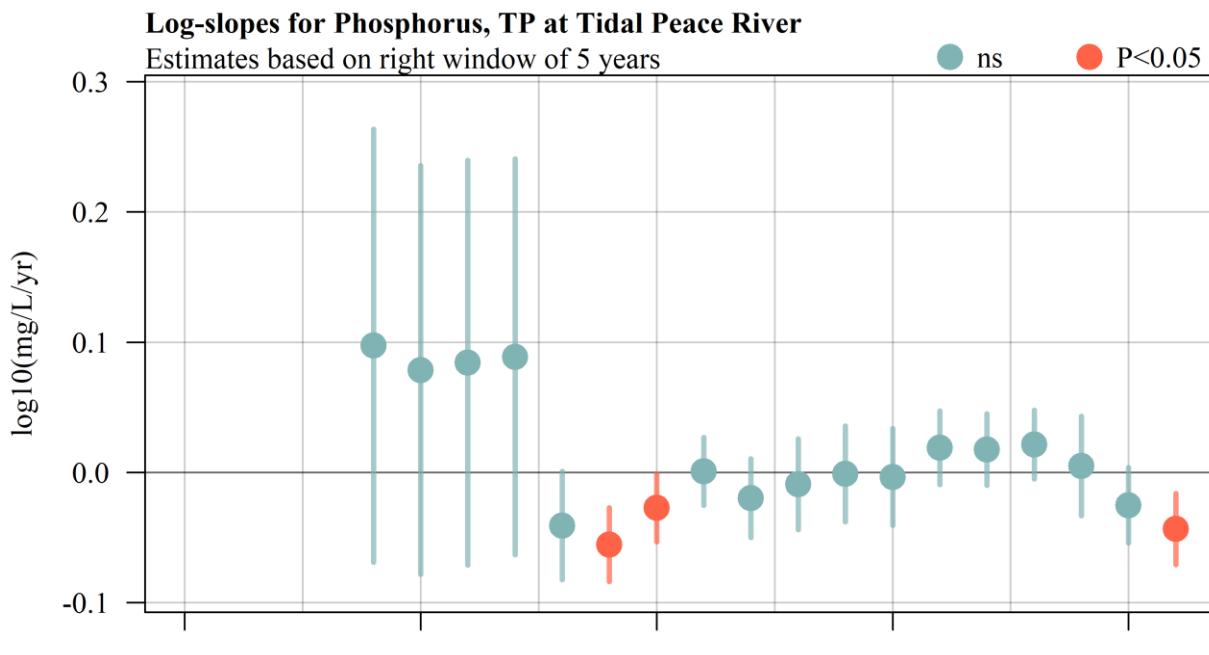
Log-slopes for Phosphorus, PO4-P at Tidal Peace River

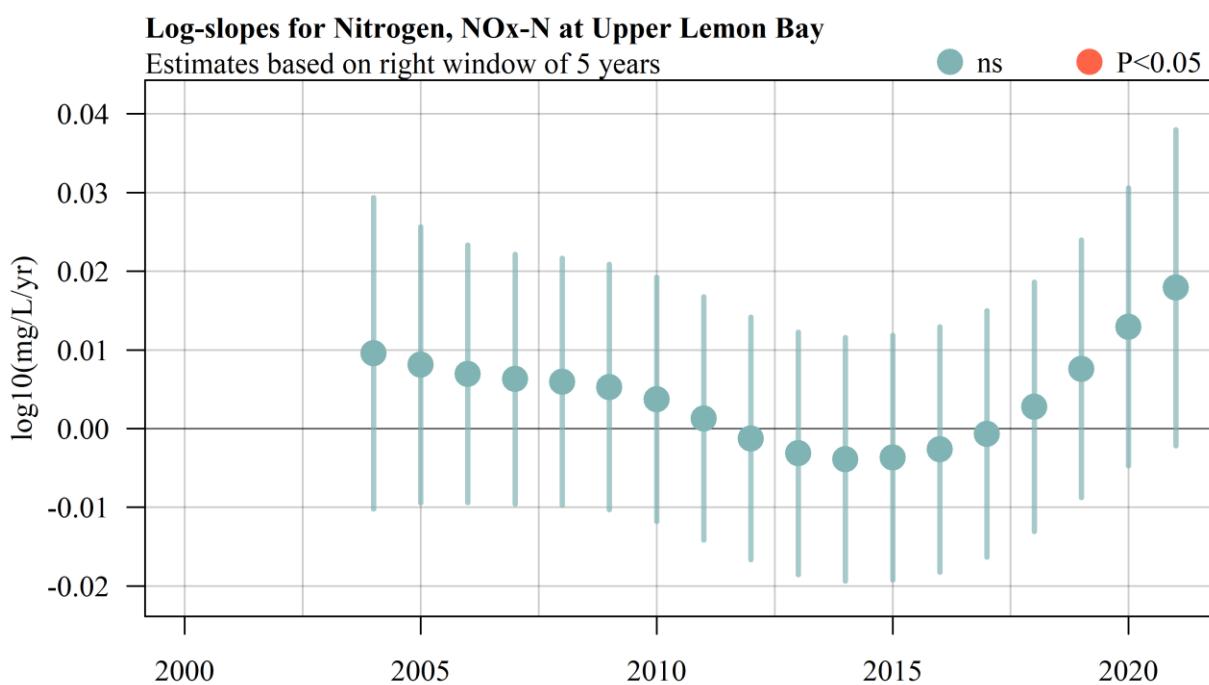
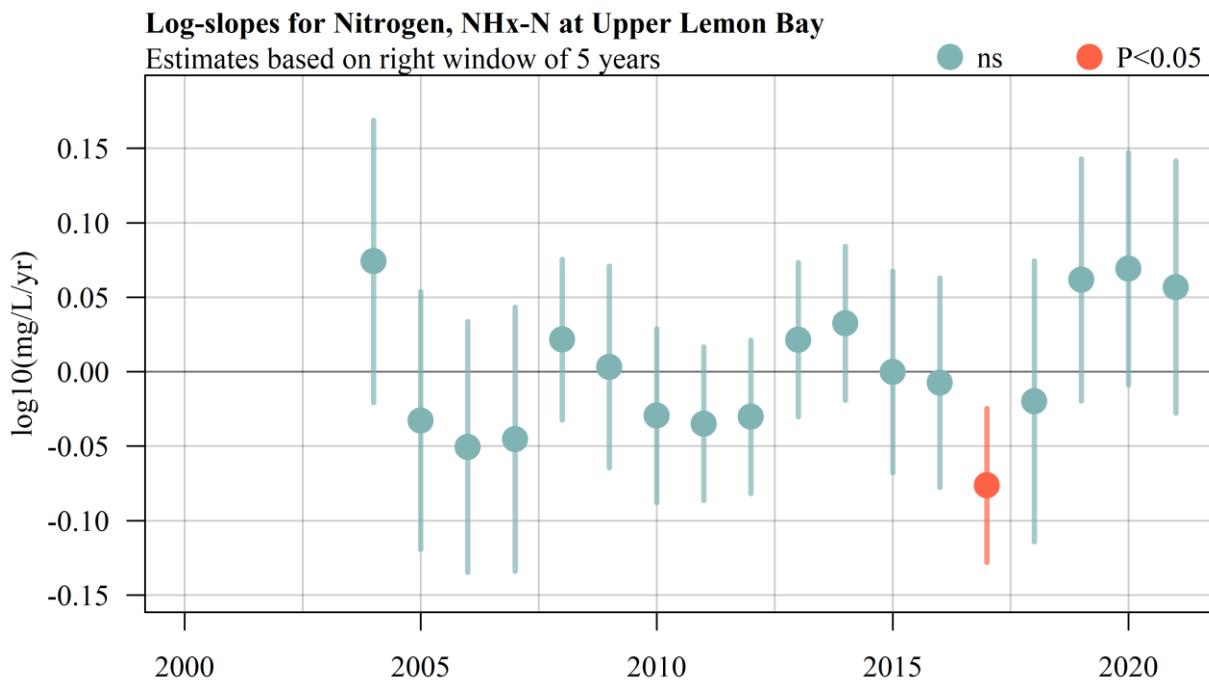
Estimates based on right window of 5 years

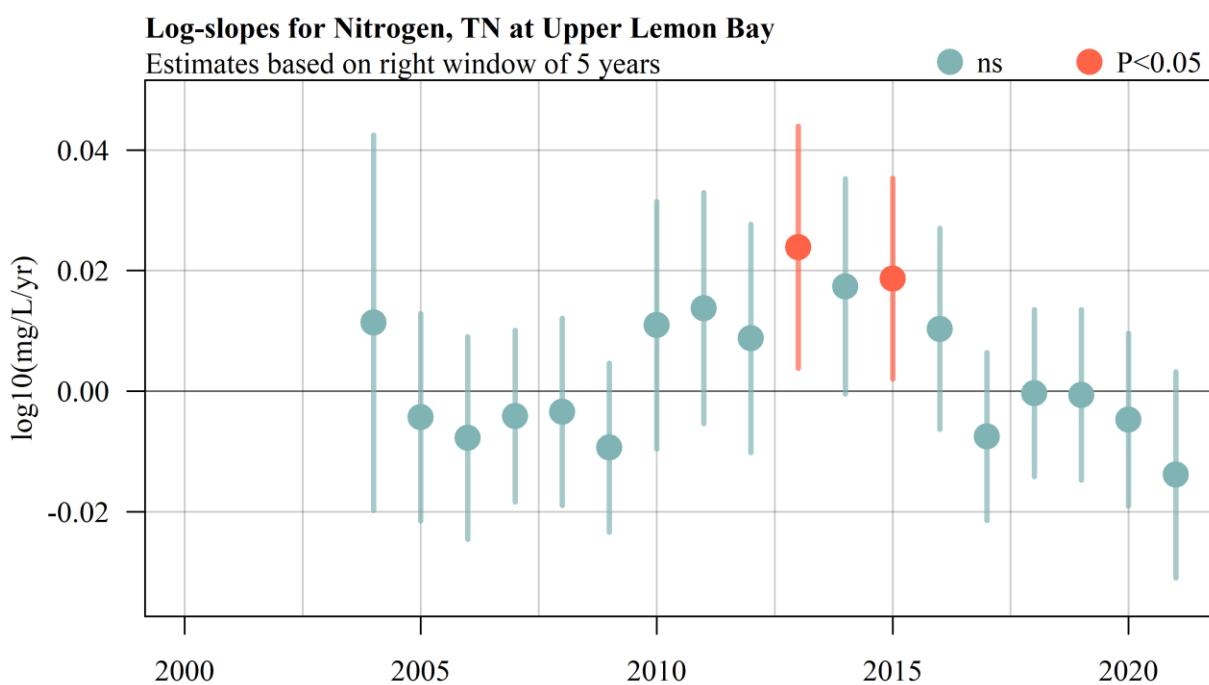
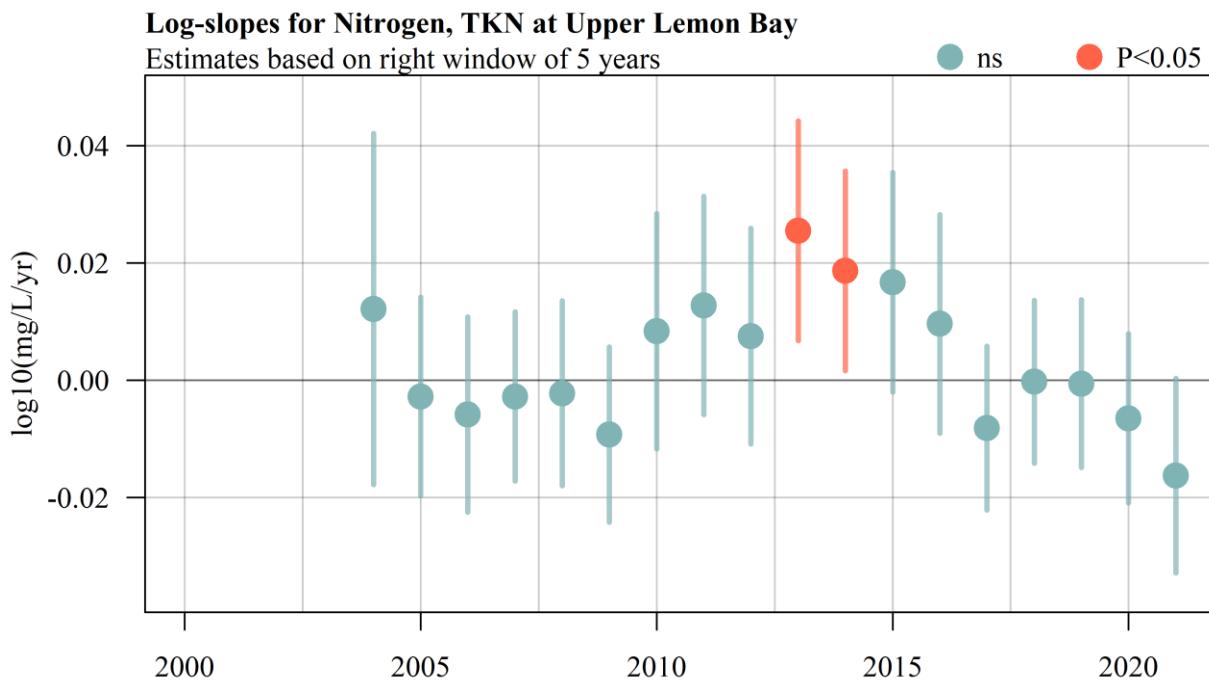
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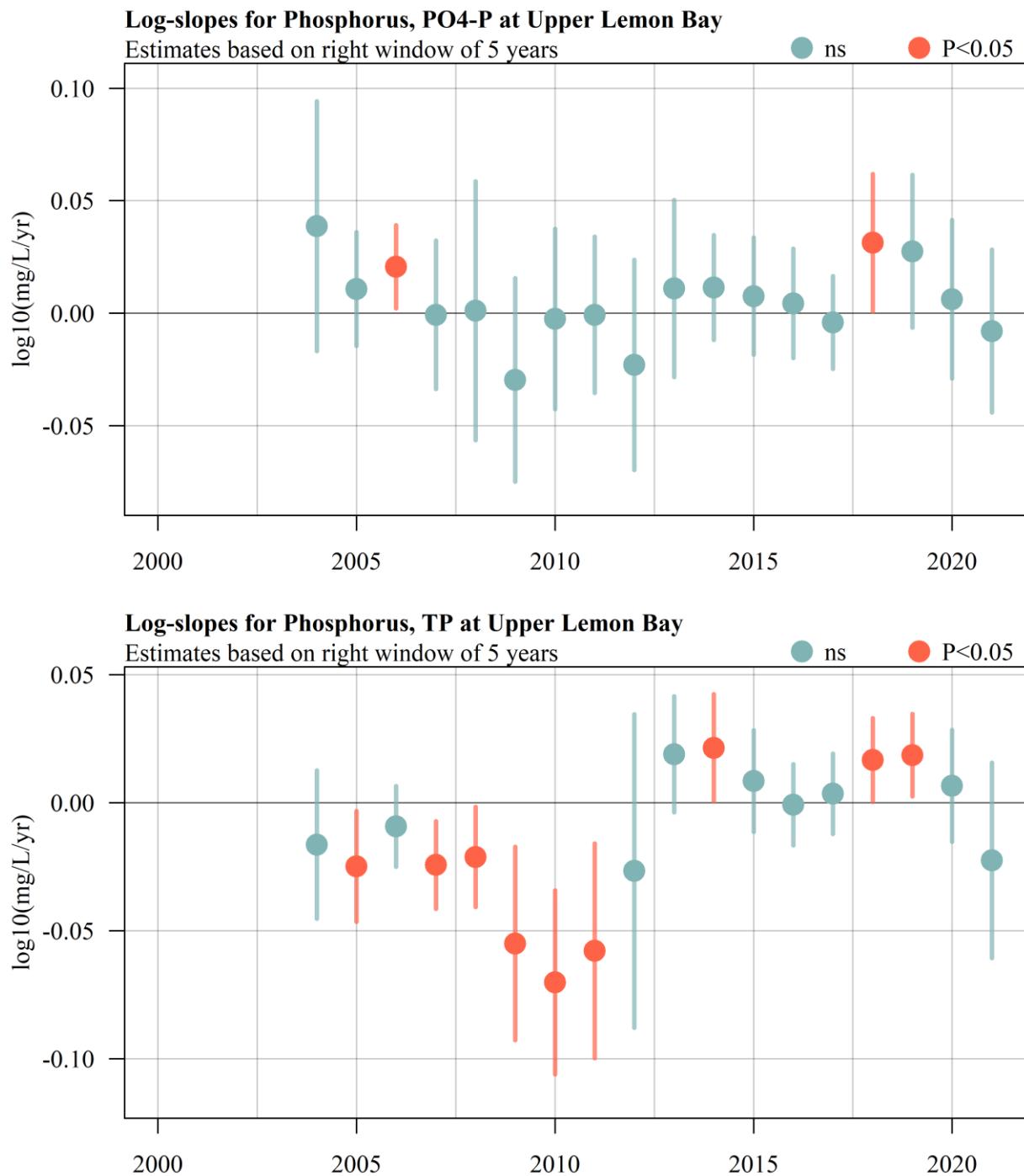
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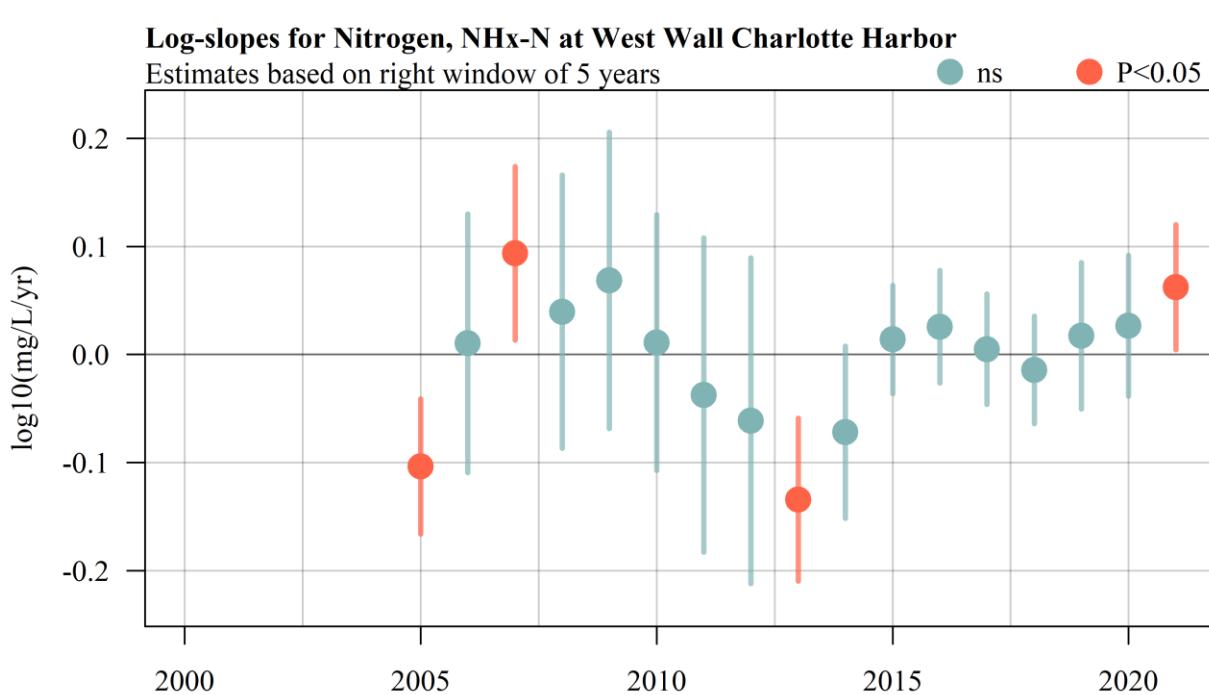
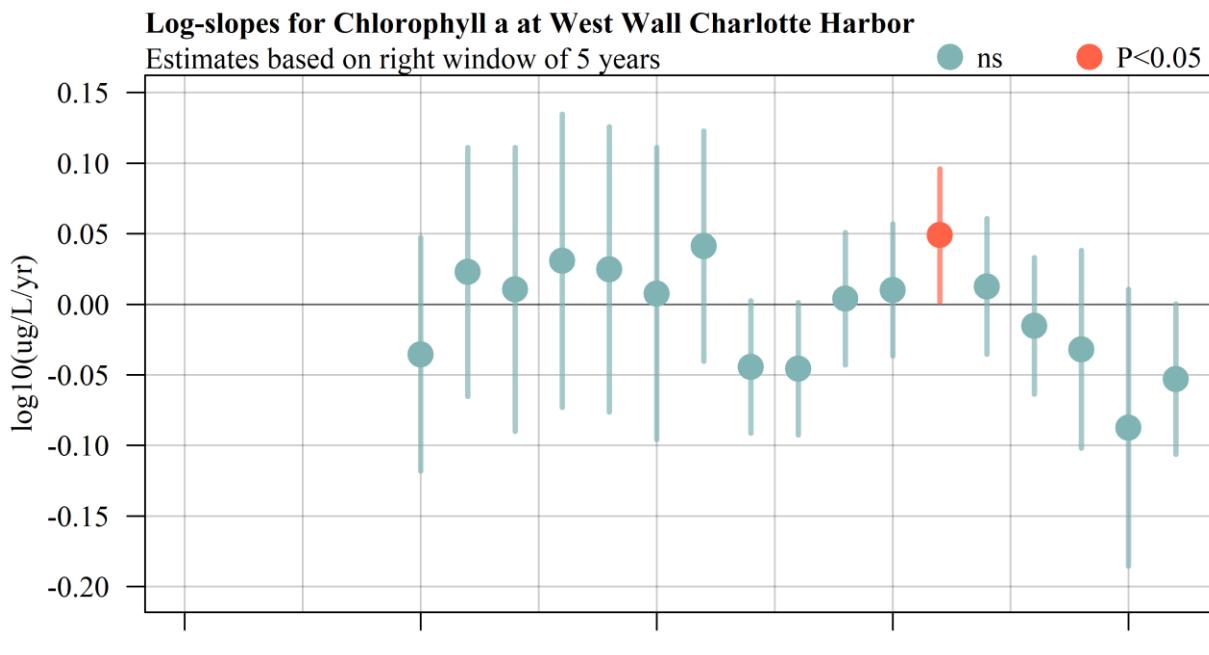


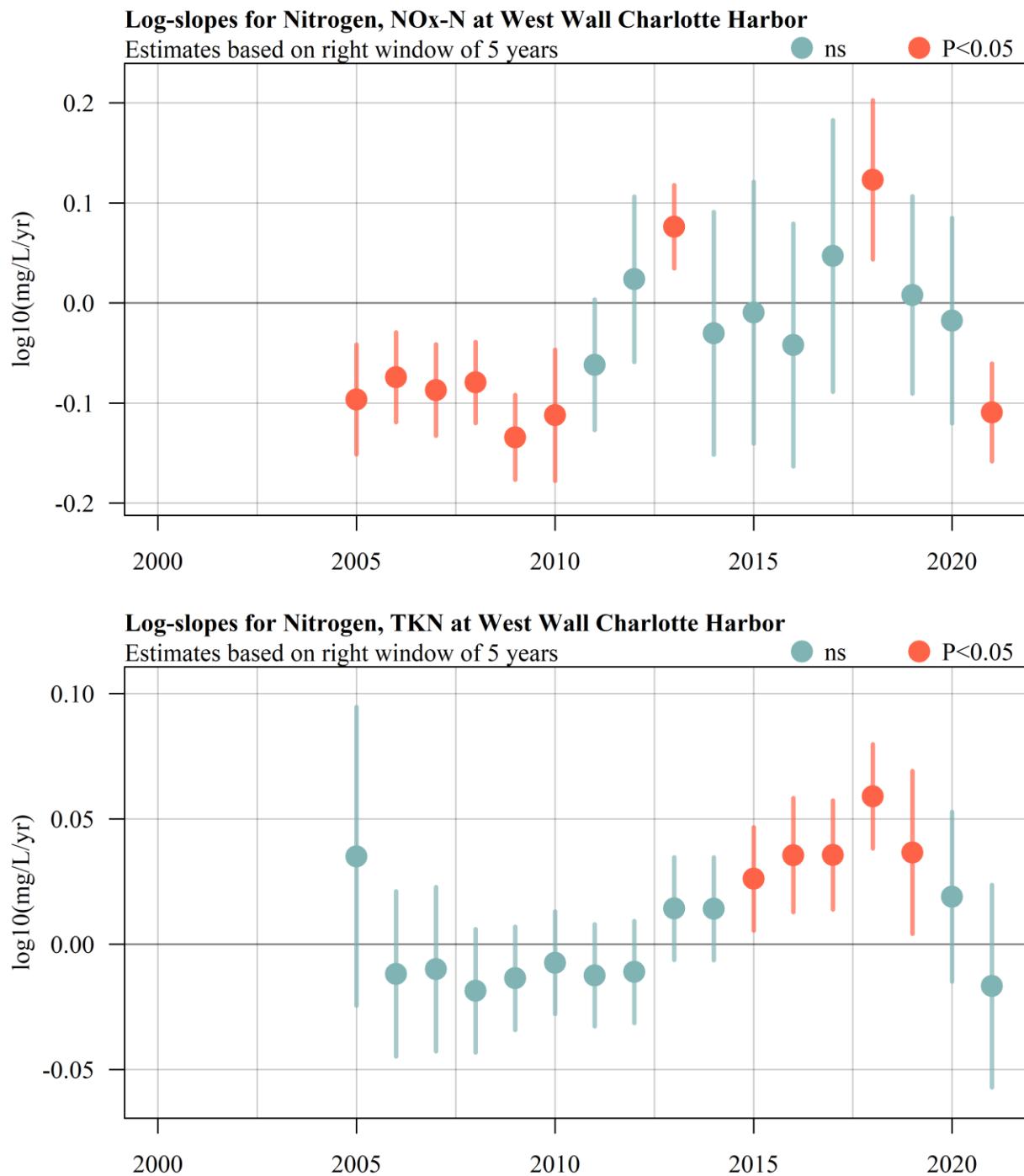


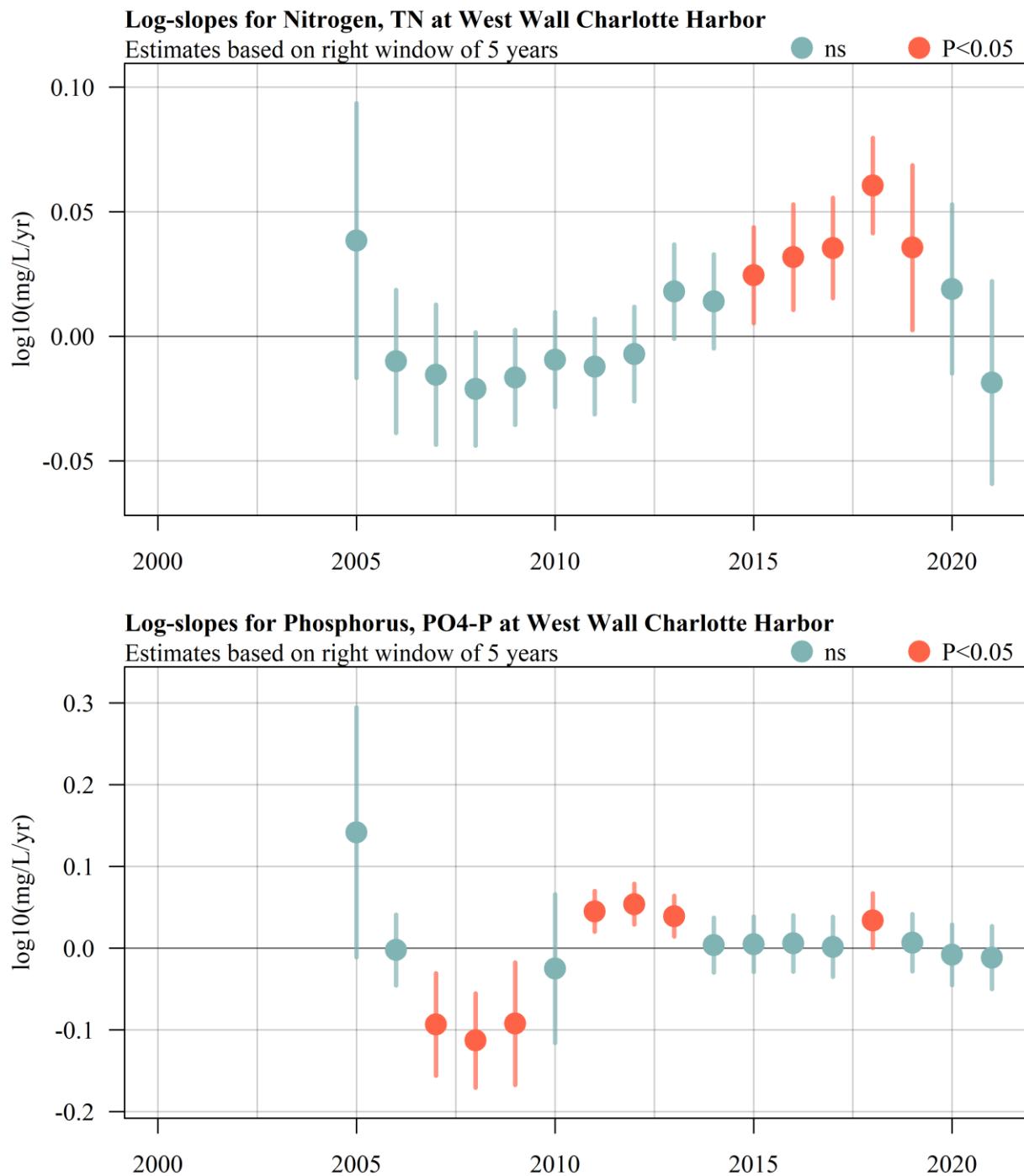












Log-slopes for Phosphorus, TP at West Wall Charlotte Harbor

Estimates based on right window of 5 years

ns

P<0.05

