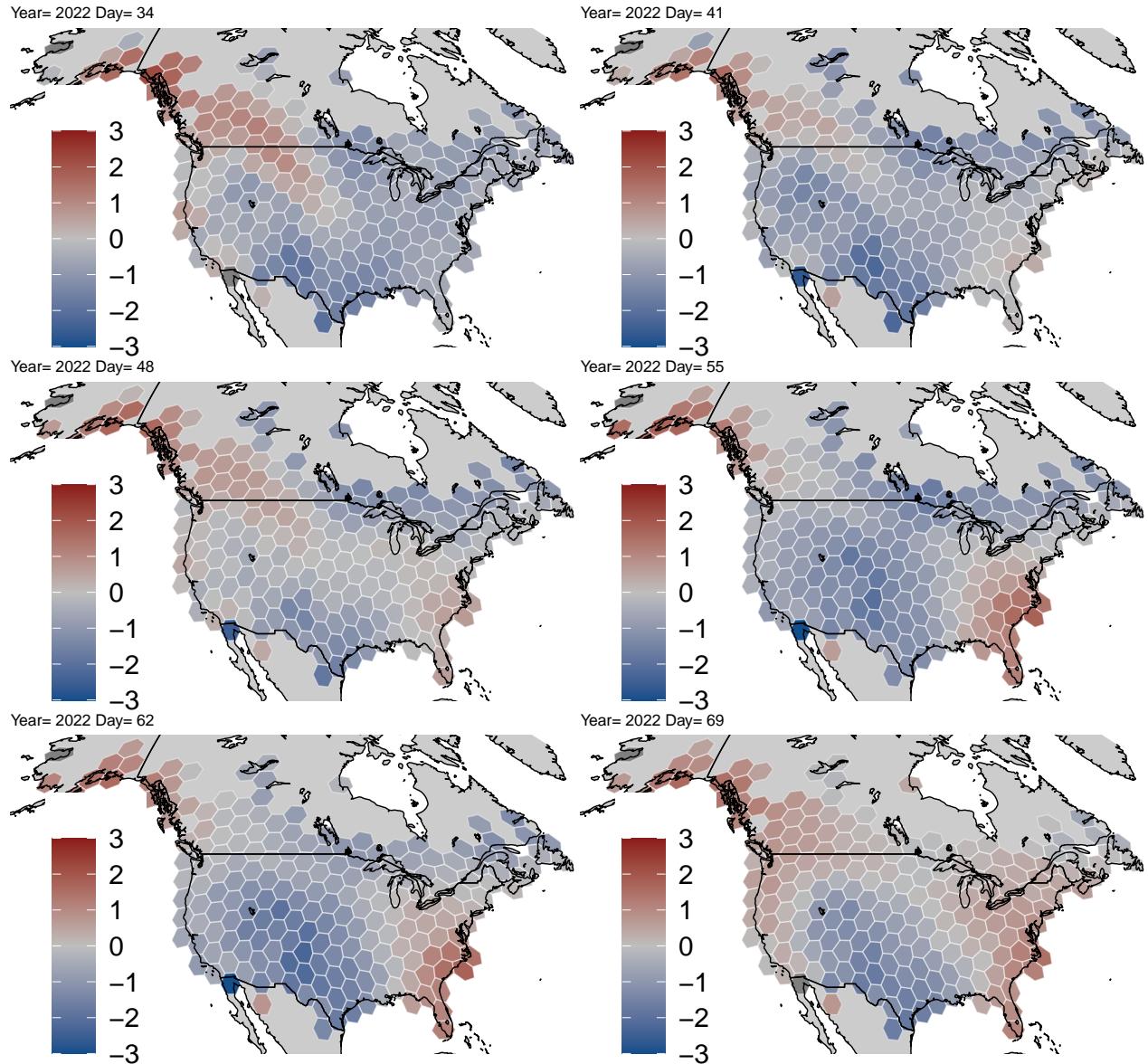


Extended Data 2 - Spatiotemporal weather anomaly maps

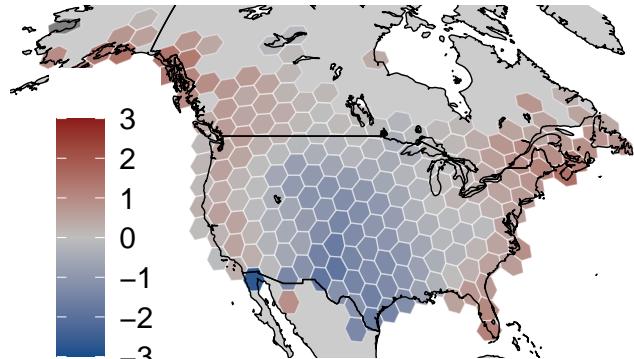
Below are maps showing spatiotemporal anomaly maps for each climate variable included in the analysis (temperature, snowpack, and precipitation) for the spring arrival period during 2022. Each map represents a different day in the arrival period. Map grid cells are colored according to the 29-day anomaly. Temperature and snowpack show more spatial and temporal autocorrelation in comparison to precipitation.

These maps can be recreated using the “enviro_spatial_corr.Rmd” for any year included in the analysis.

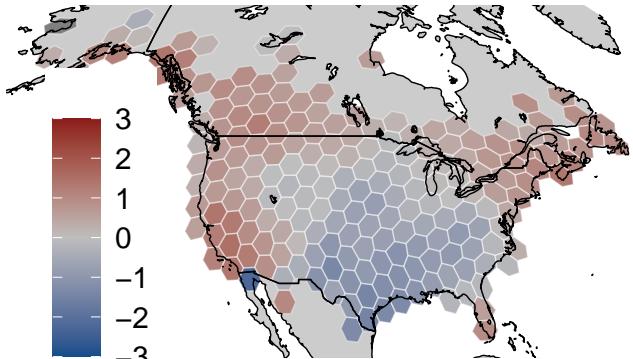
Temperature



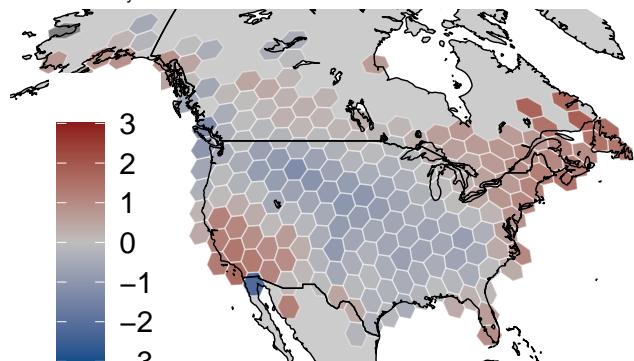
Year= 2022 Day= 76



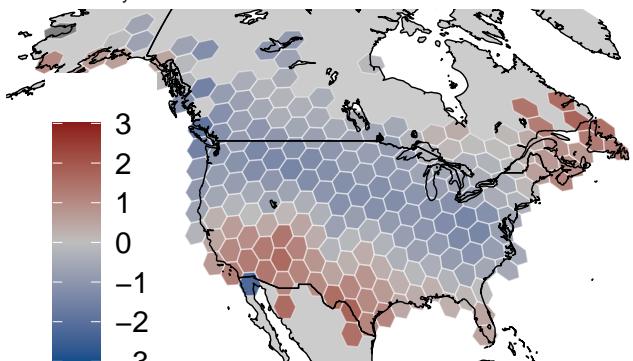
Year= 2022 Day= 83



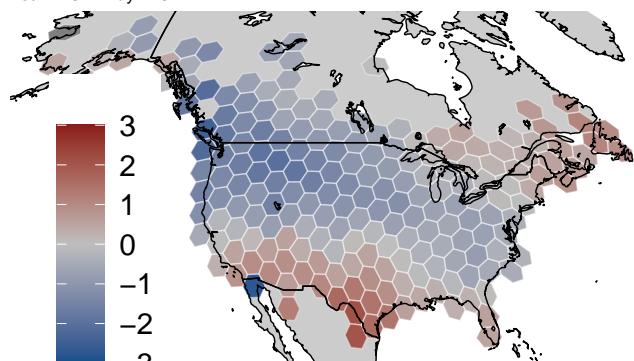
Year= 2022 Day= 90



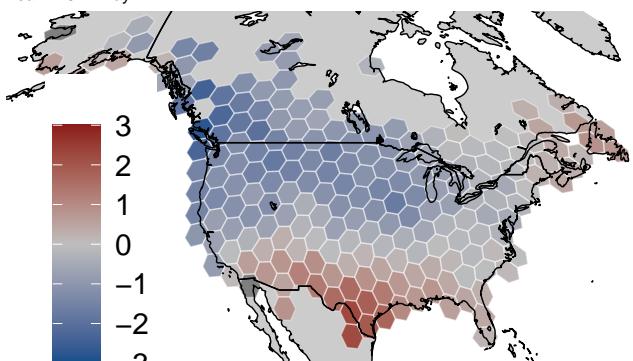
Year= 2022 Day= 97



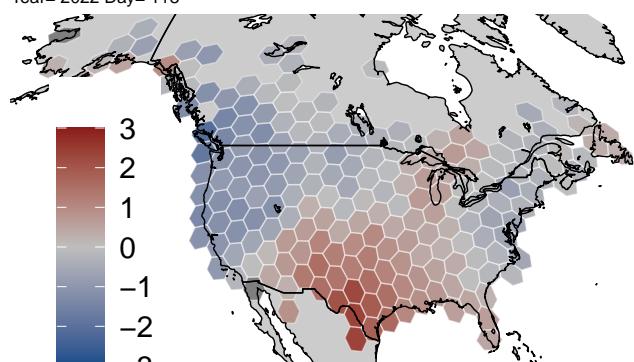
Year= 2022 Day= 104



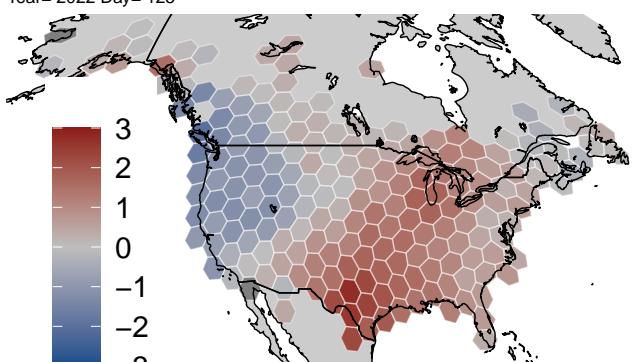
Year= 2022 Day= 111



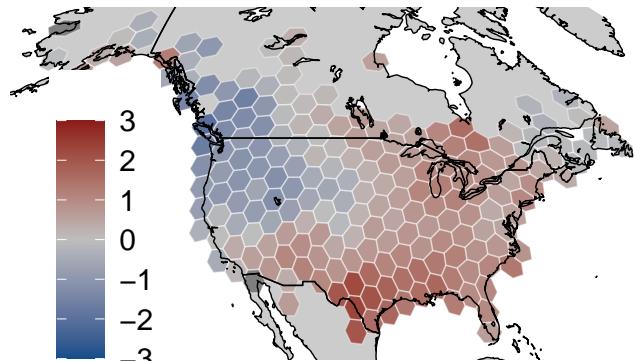
Year= 2022 Day= 118



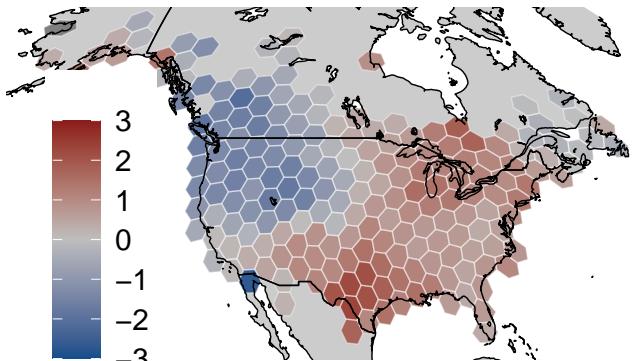
Year= 2022 Day= 125



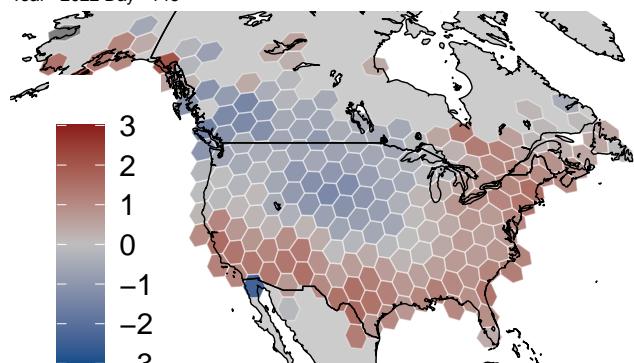
Year= 2022 Day= 132



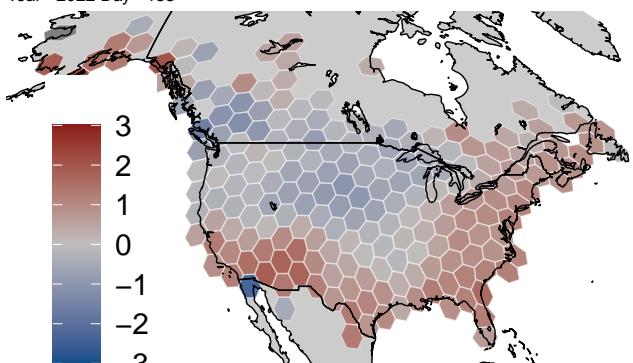
Year= 2022 Day= 139



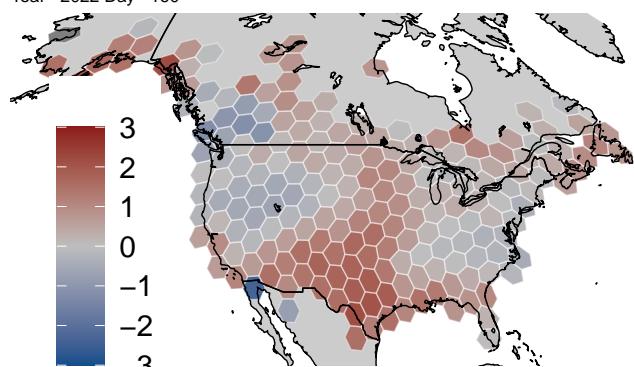
Year= 2022 Day= 146



Year= 2022 Day= 153

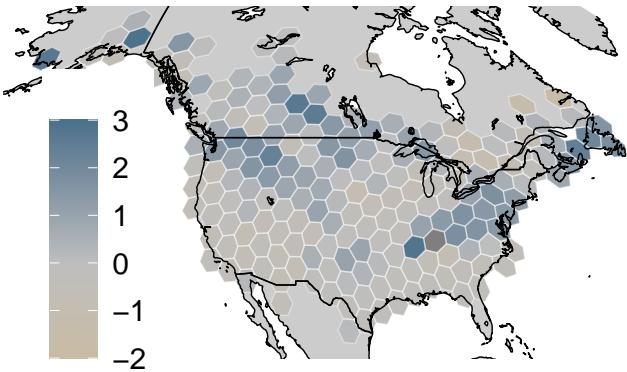


Year= 2022 Day= 160

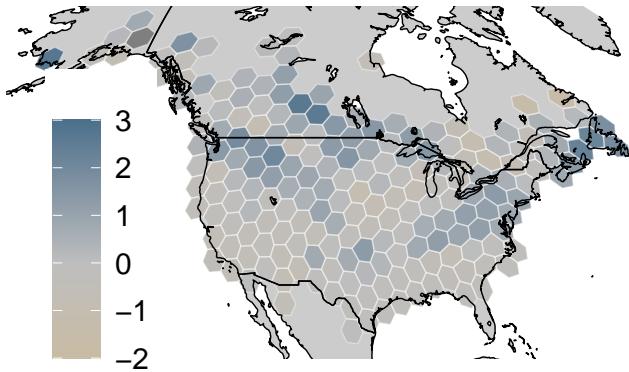


Snowpack

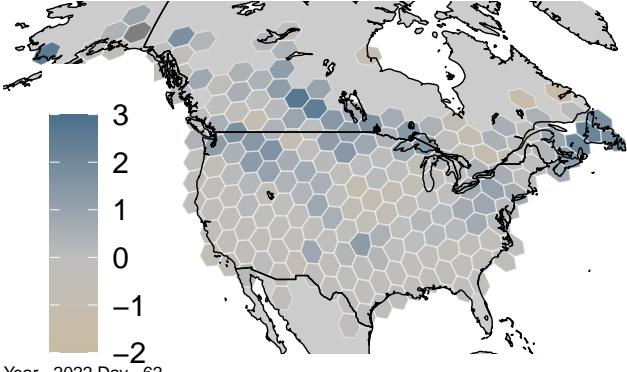
Year= 2022 Day= 34



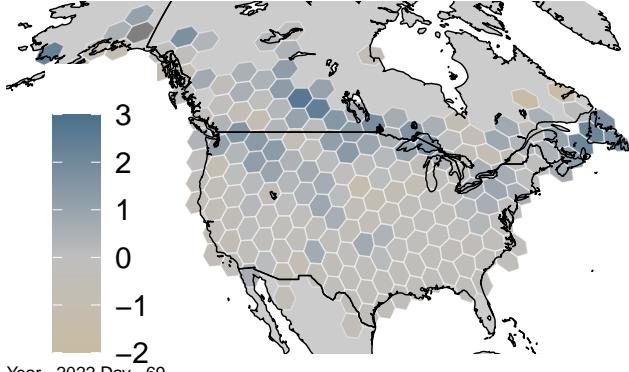
Year= 2022 Day= 41



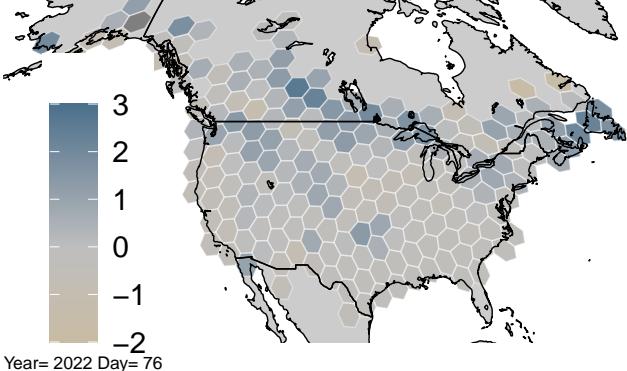
Year= 2022 Day= 48



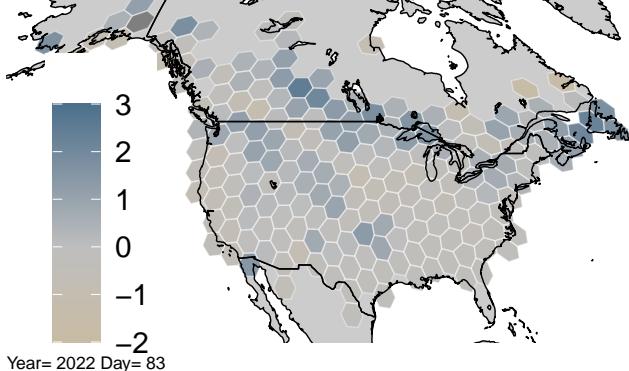
Year= 2022 Day= 55



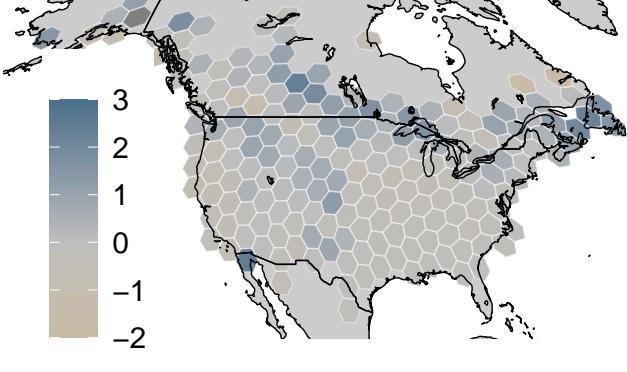
Year= 2022 Day= 62



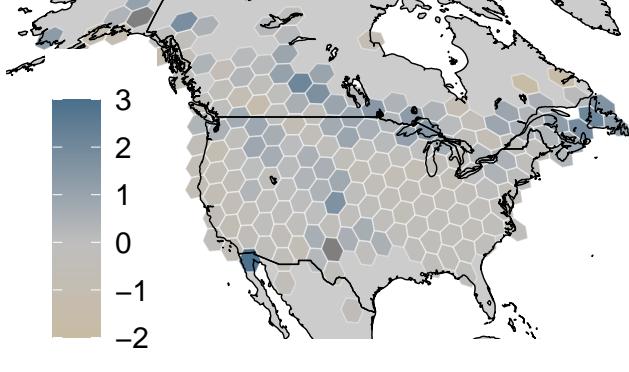
Year= 2022 Day= 69



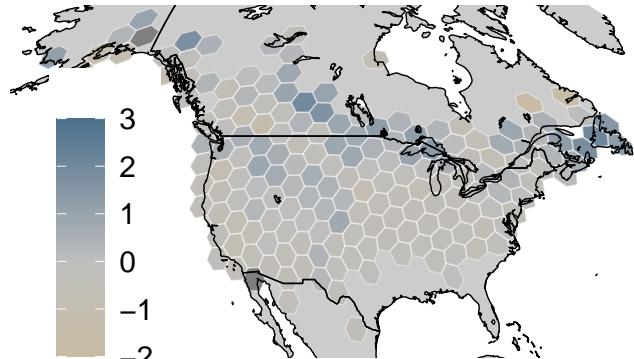
Year= 2022 Day= 76



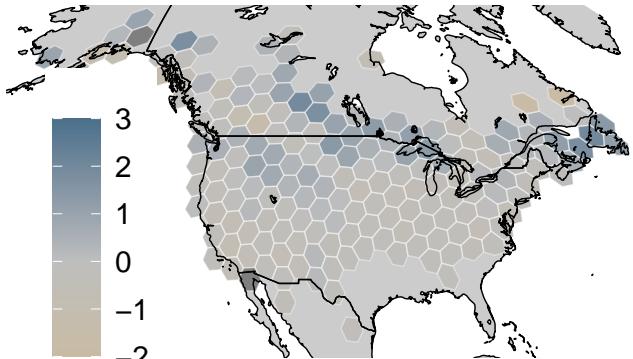
Year= 2022 Day= 83



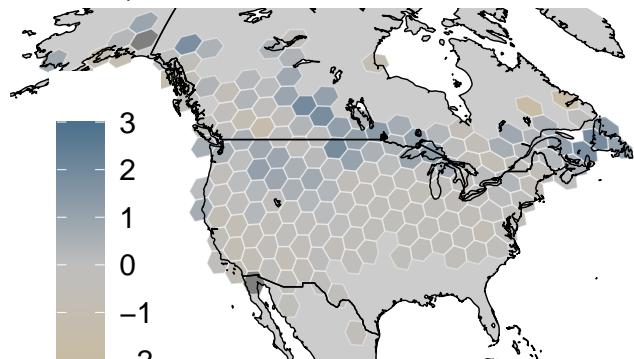
Year= 2022 Day= 90



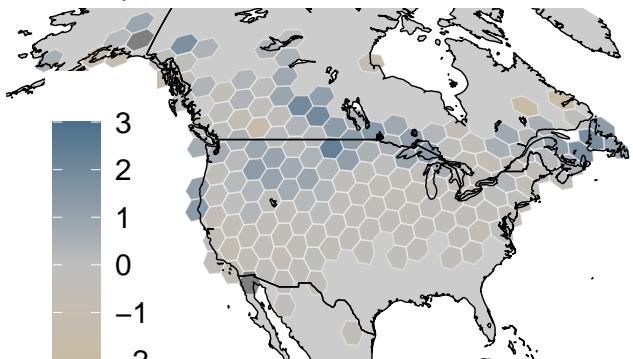
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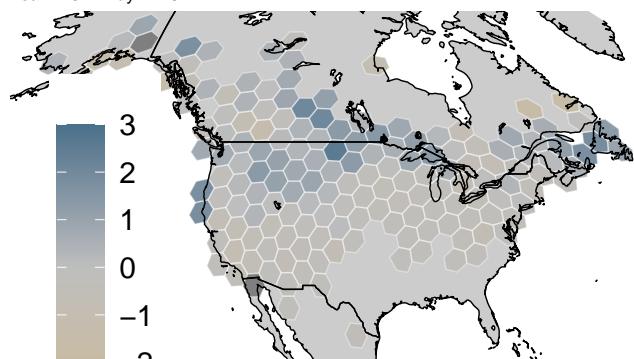
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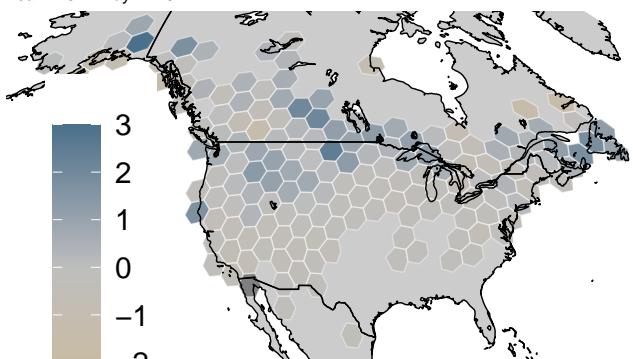
Year= 2022 Day= 111



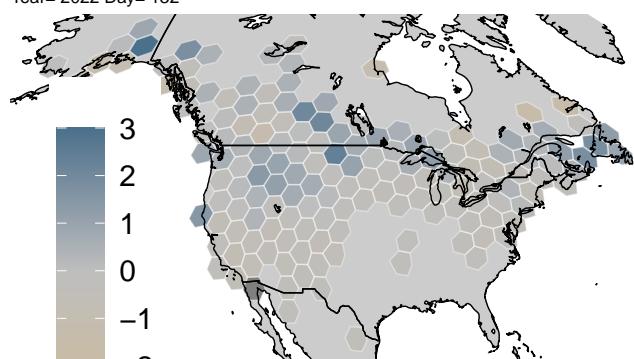
Year= 2022 Day= 118



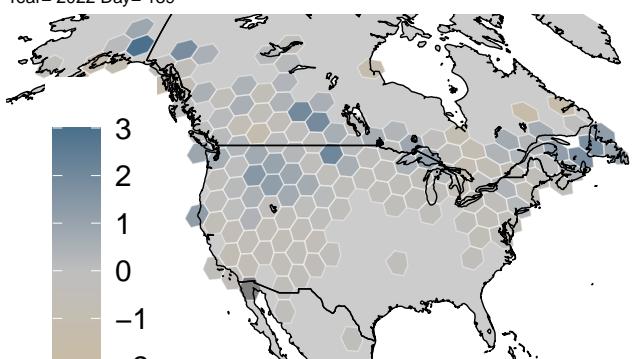
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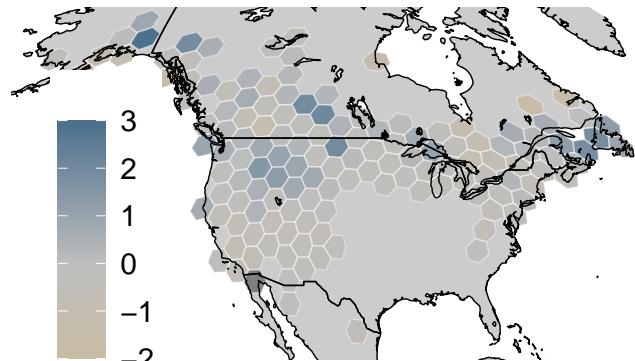
Year= 2022 Day= 132



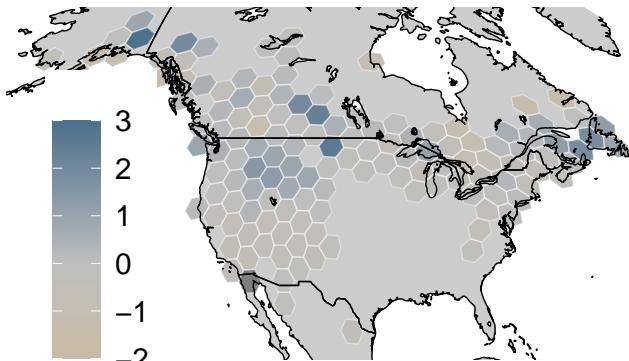
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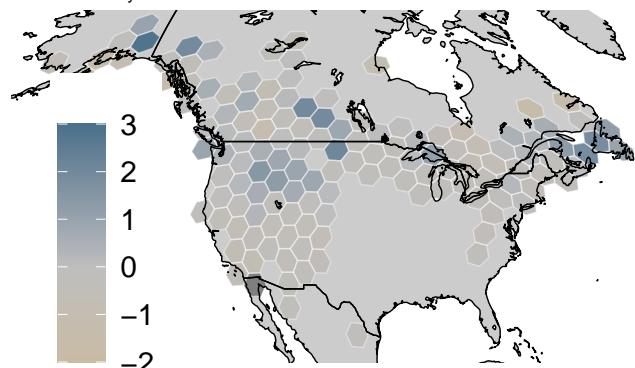
Year= 2022 Day= 146



Year= 2022 Day= 153

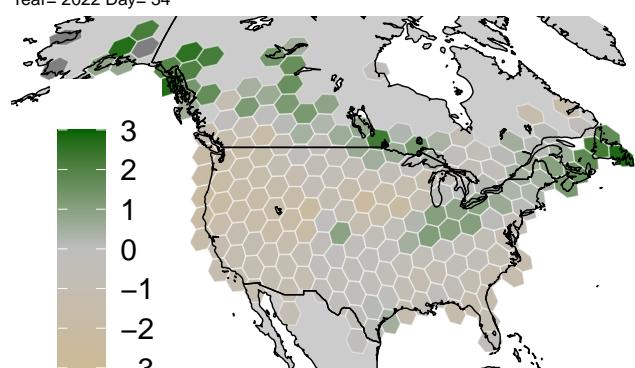


Year= 2022 Day= 160

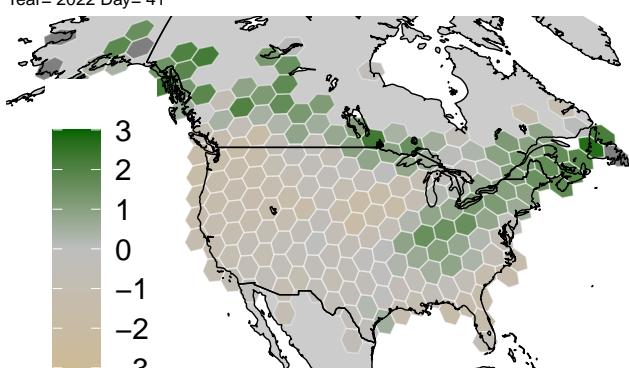


Precipitation

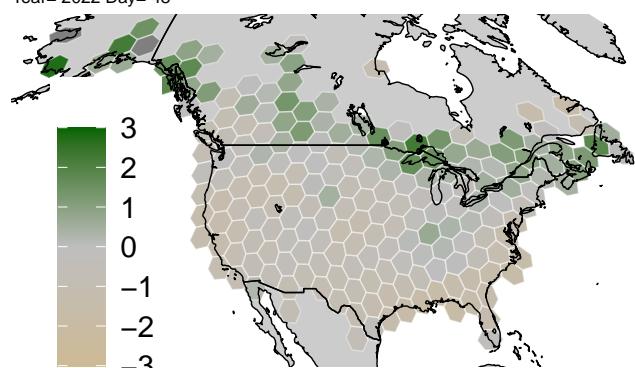
Year= 2022 Day= 34



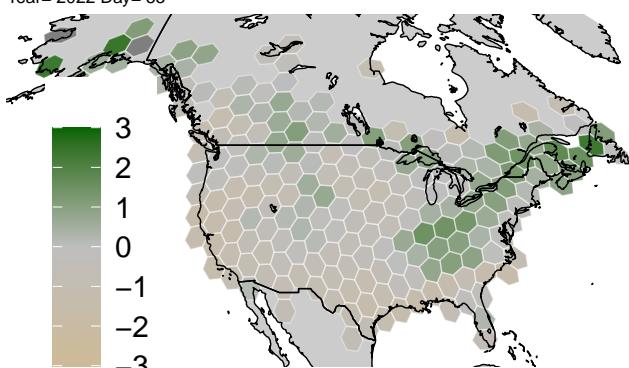
Year= 2022 Day= 41



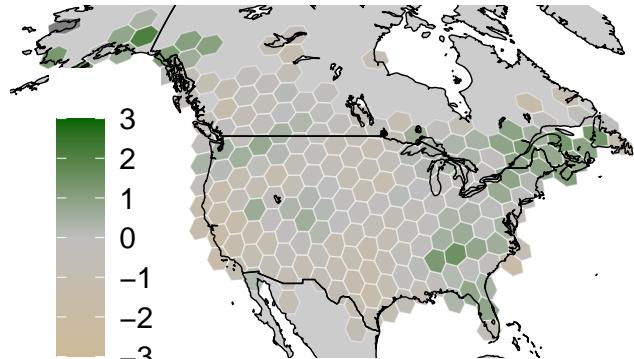
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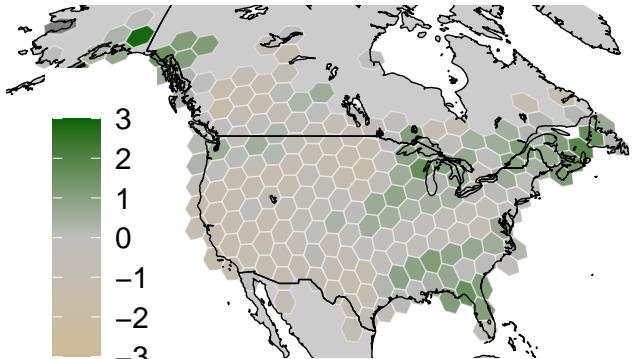
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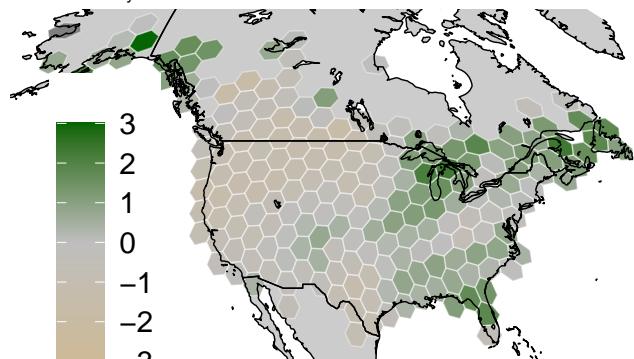
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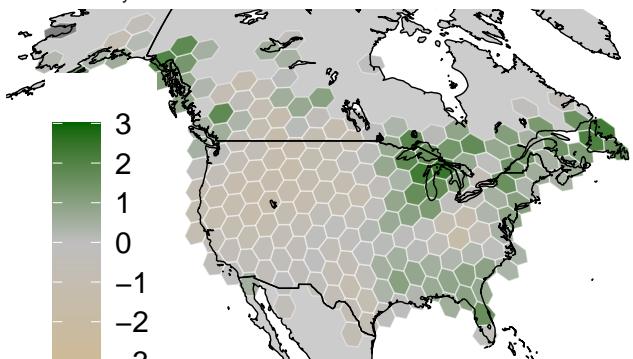
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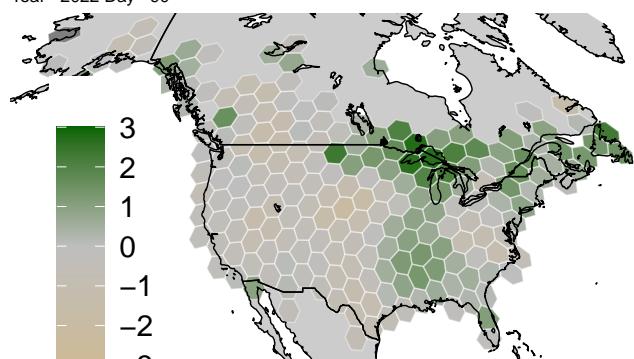
Year= 2022 Day= 76



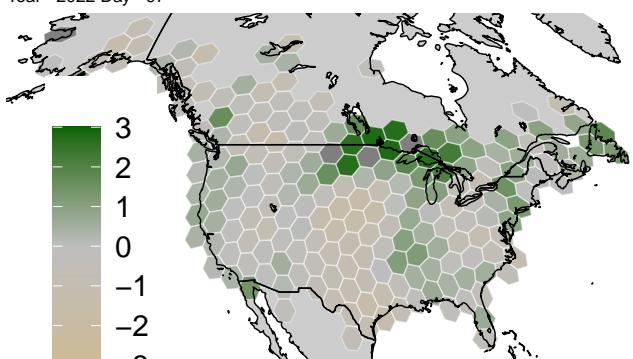
Year= 2022 Day= 83



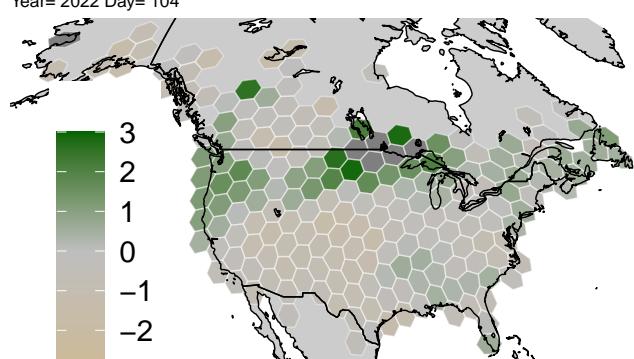
Year= 2022 Day= 90



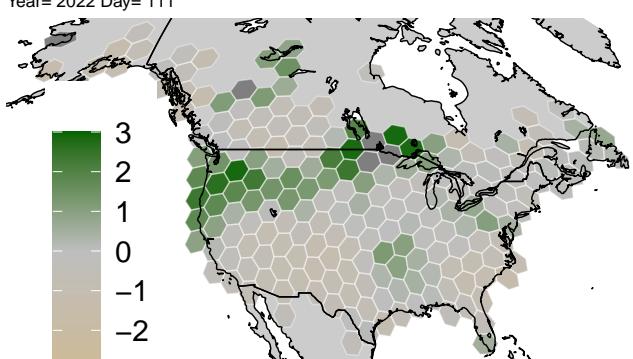
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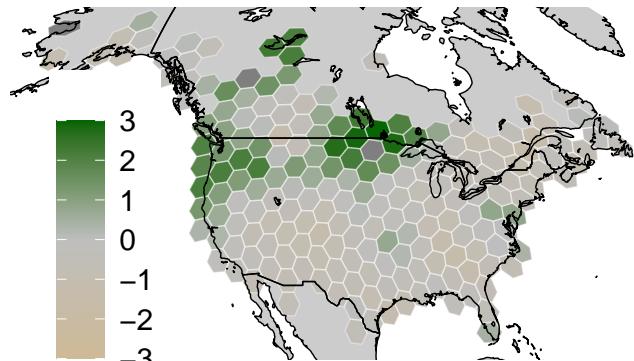
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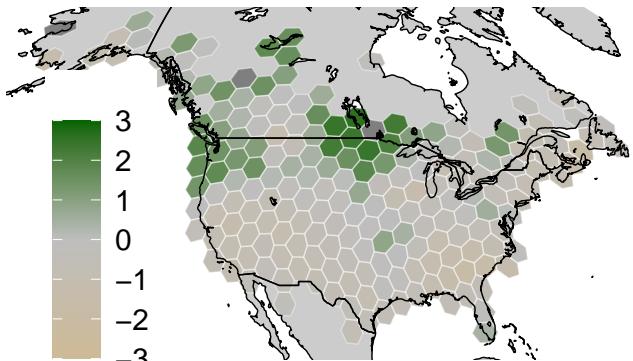
Year= 2022 Day= 111



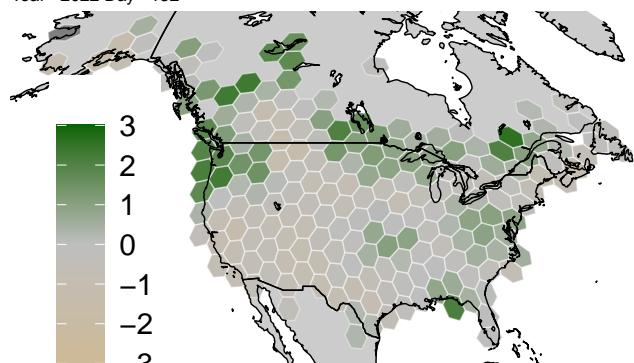
Year= 2022 Day= 118



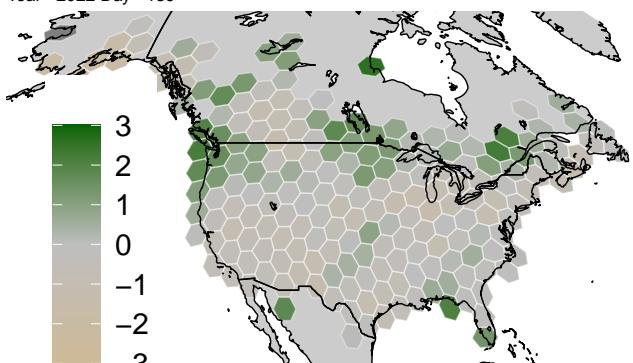
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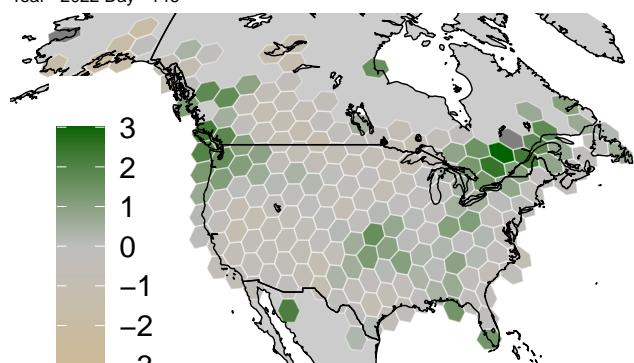
Year= 2022 Day= 132



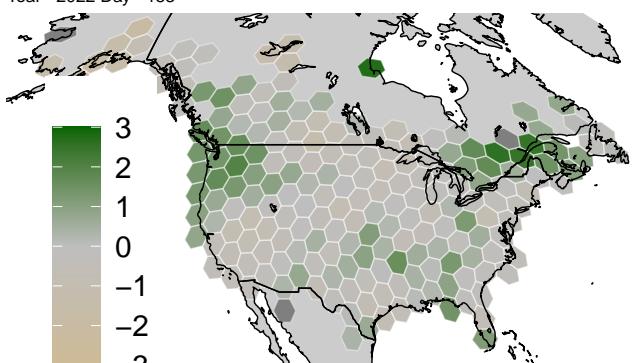
Year= 2022 Day= 139



Year= 2022 Day= 146



Year= 2022 Day= 153



Year= 2022 Day= 160

