

Whooping Crane Monitoring Update



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Science Plan Reporting Session, February 20, 2024



PLATTE RIVER
RECOVERY IMPLEMENTATION PROGRAM

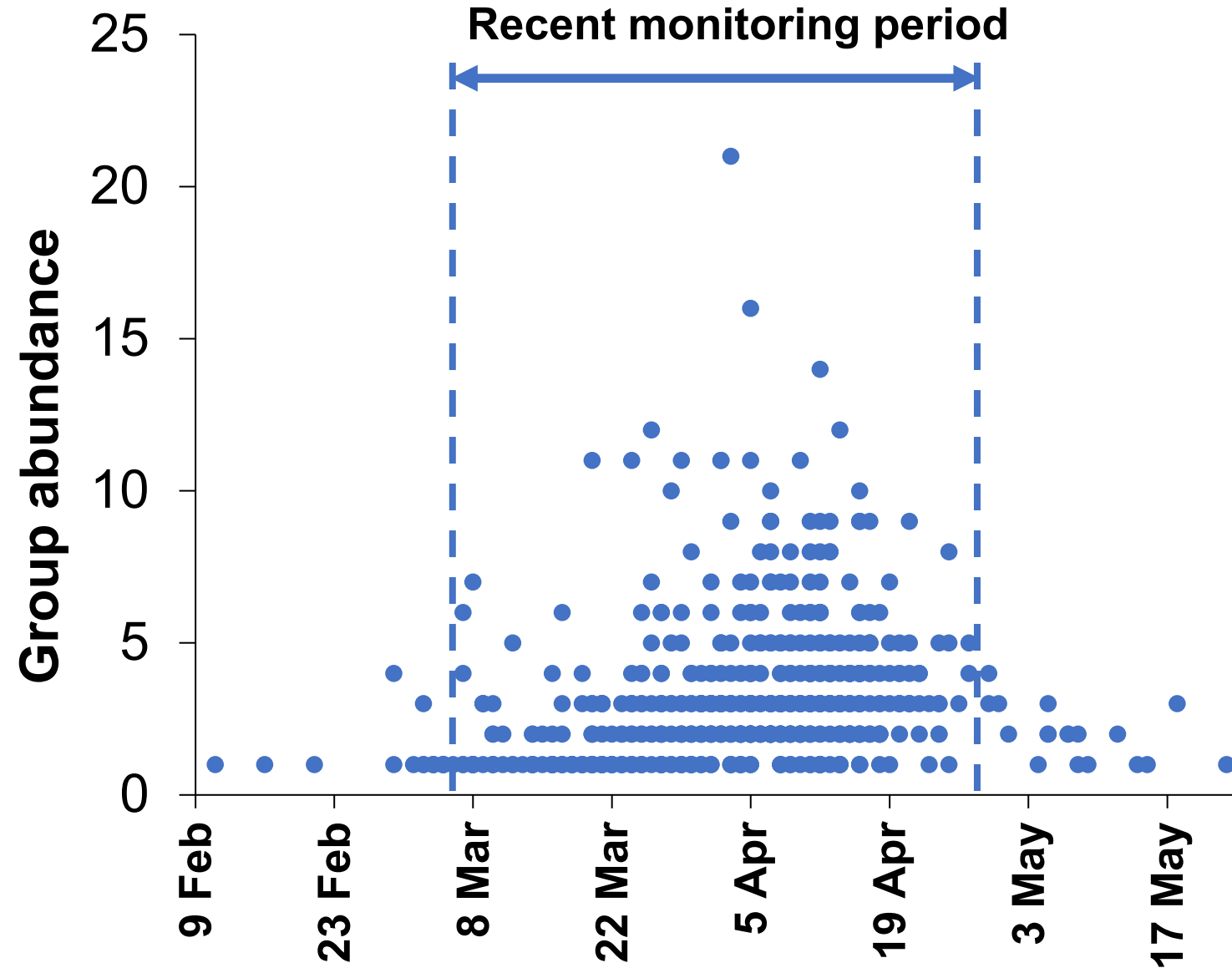
Context and Purpose

- Spring and fall monitoring periods:
 - Established to include 90% of group observations
- January 2023 TAC discussion:
 - Adjust PRRIP survey dates?
 - Spring: March 6–April 29
 - Fall: October 9–November 15
- Established working group

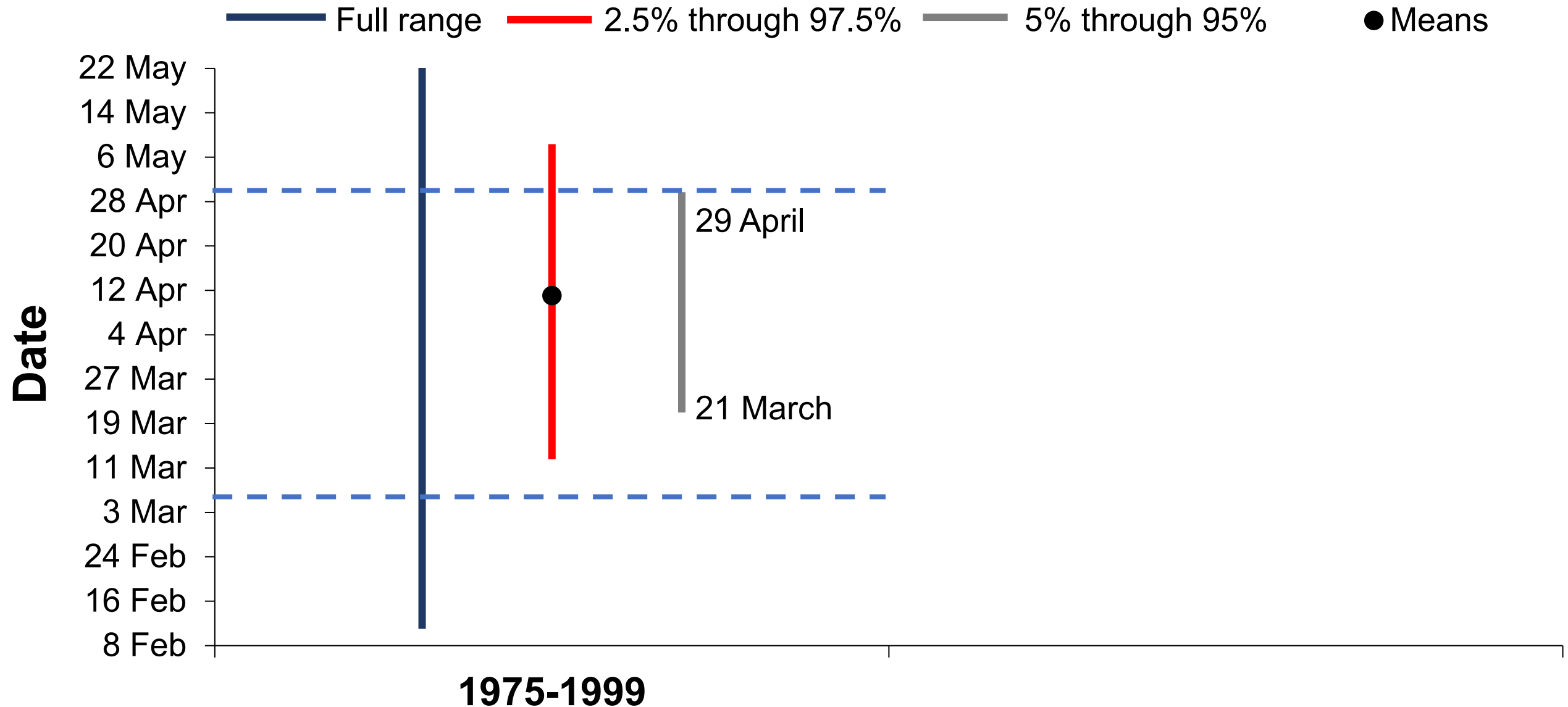


USFWS Public Sighting Data—Spring

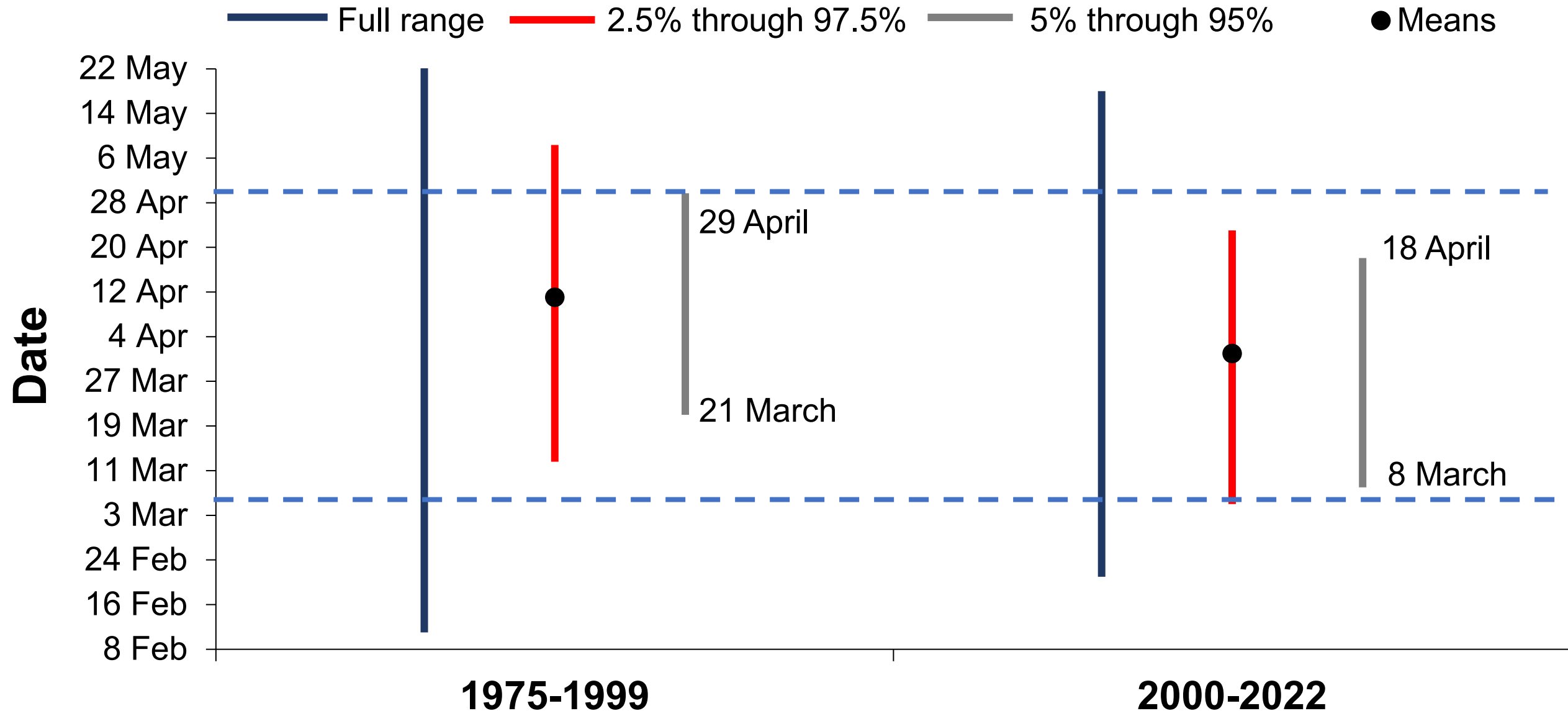
- 1975–2022
 - 586 group observations
- Calculate
 - 2.5th and 97.5th percentiles
 - 5th and 95th percentiles
- Two periods
 - 1975–1999
 - 2000–2022



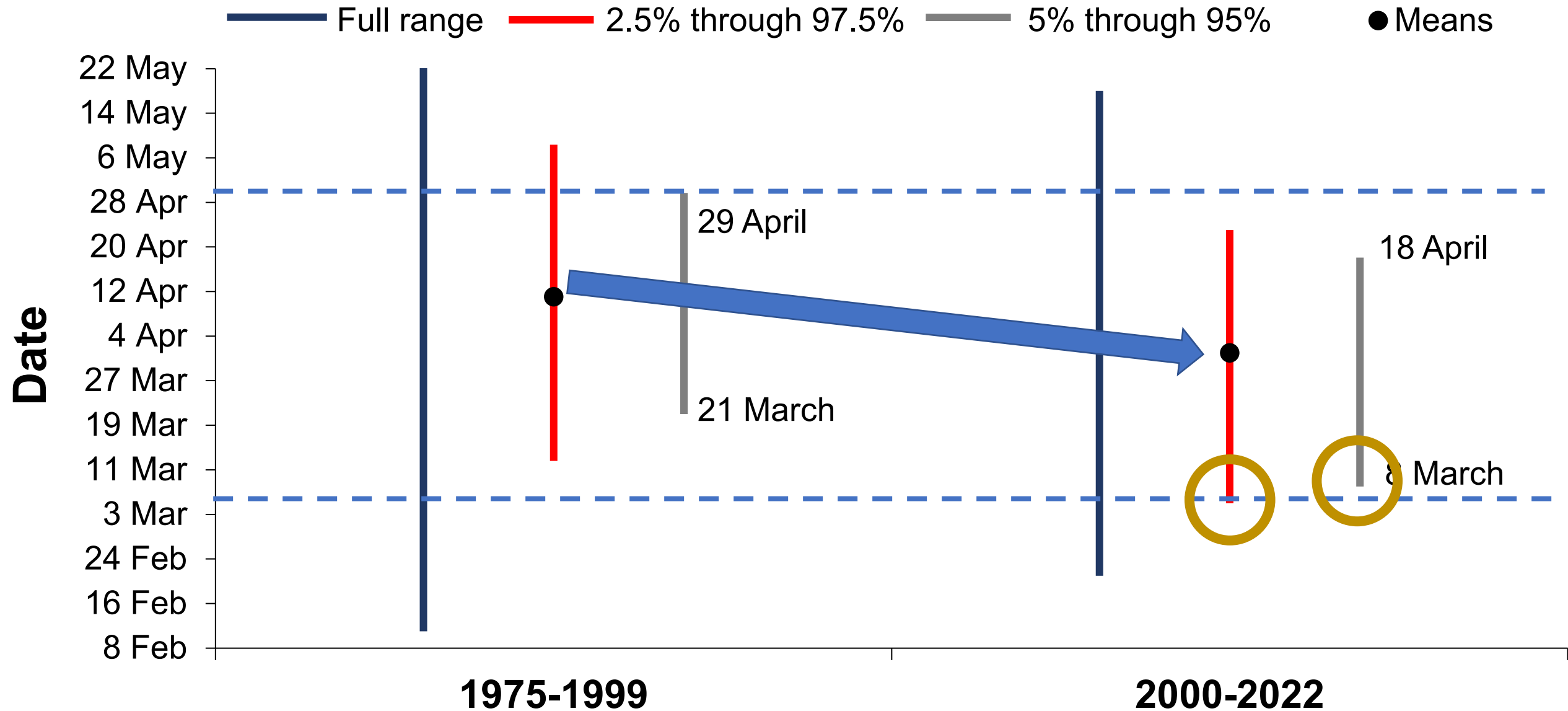
USFWS Public Sighting Data—Spring



USFWS Public Sighting Data—Spring

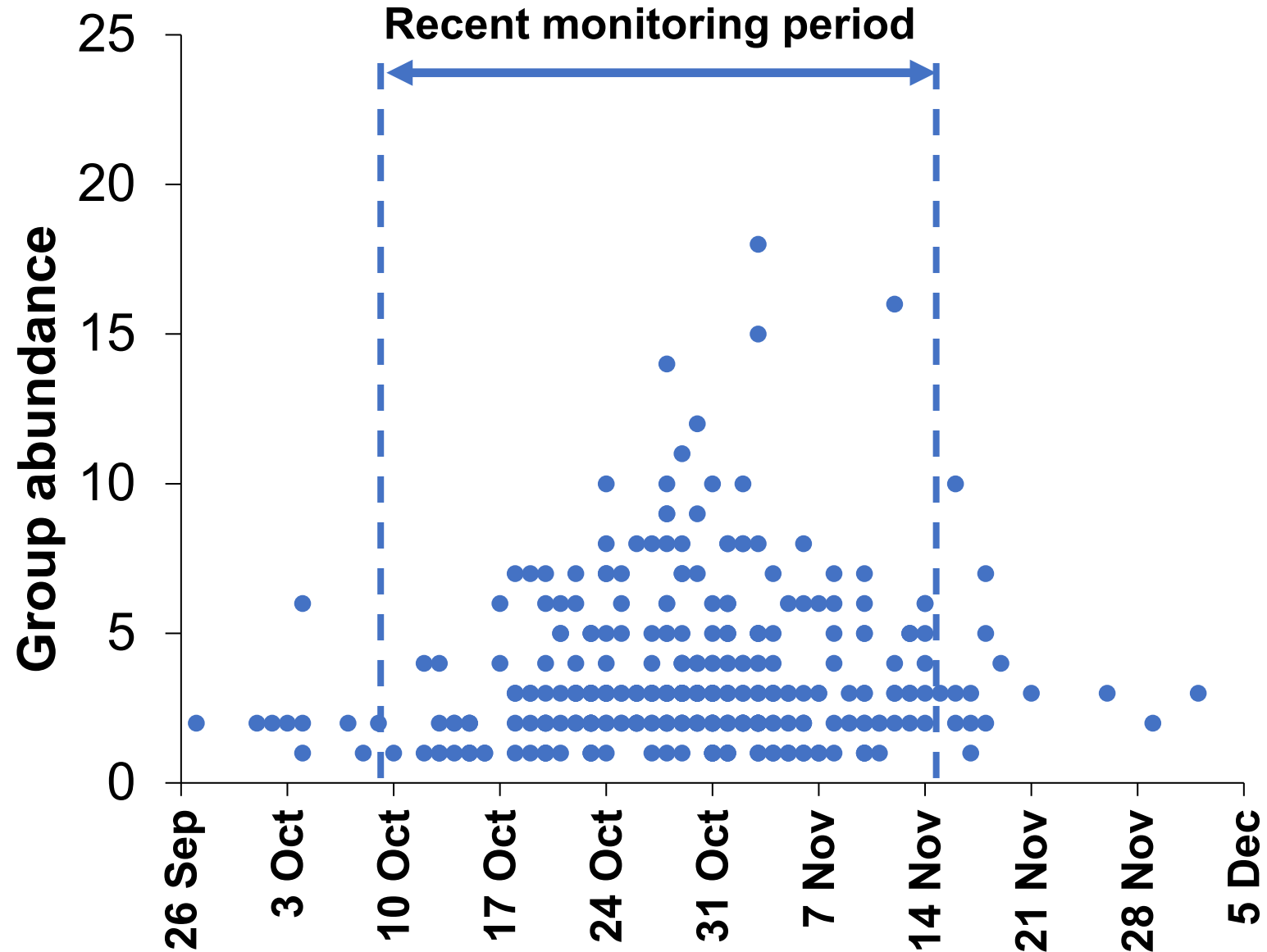


USFWS Public Sighting Data—Spring

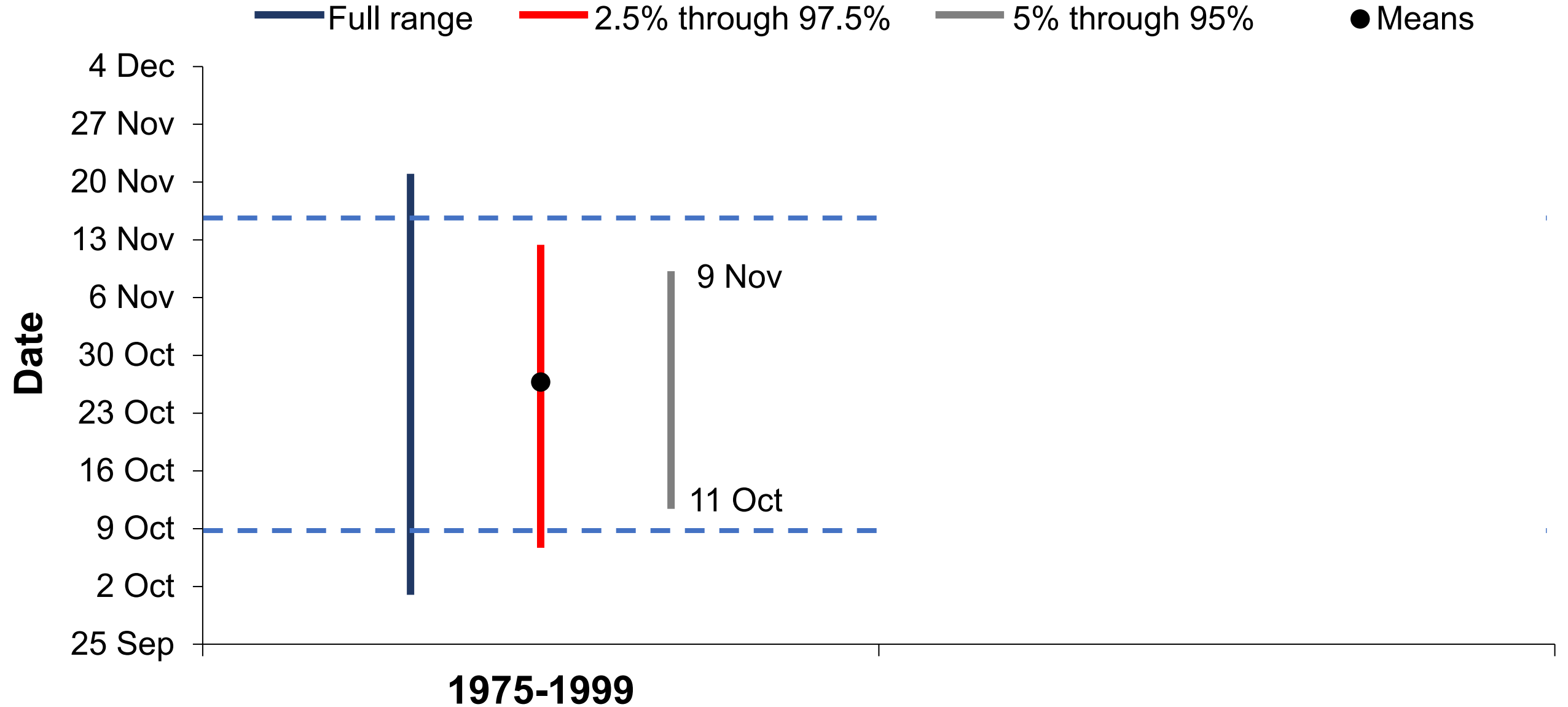


USFWS Public Sighting Data—Fall

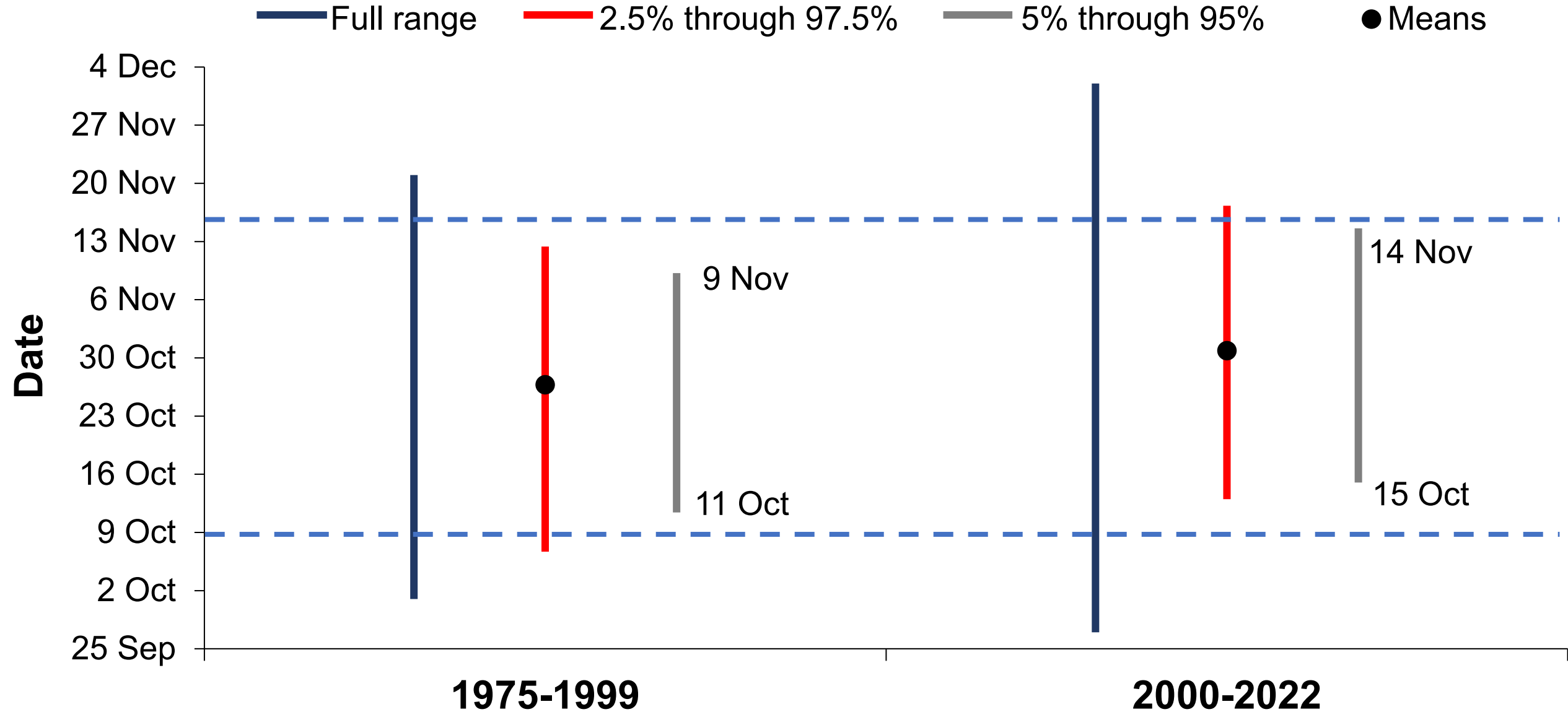
- 1975–2022
 - 346 group observations



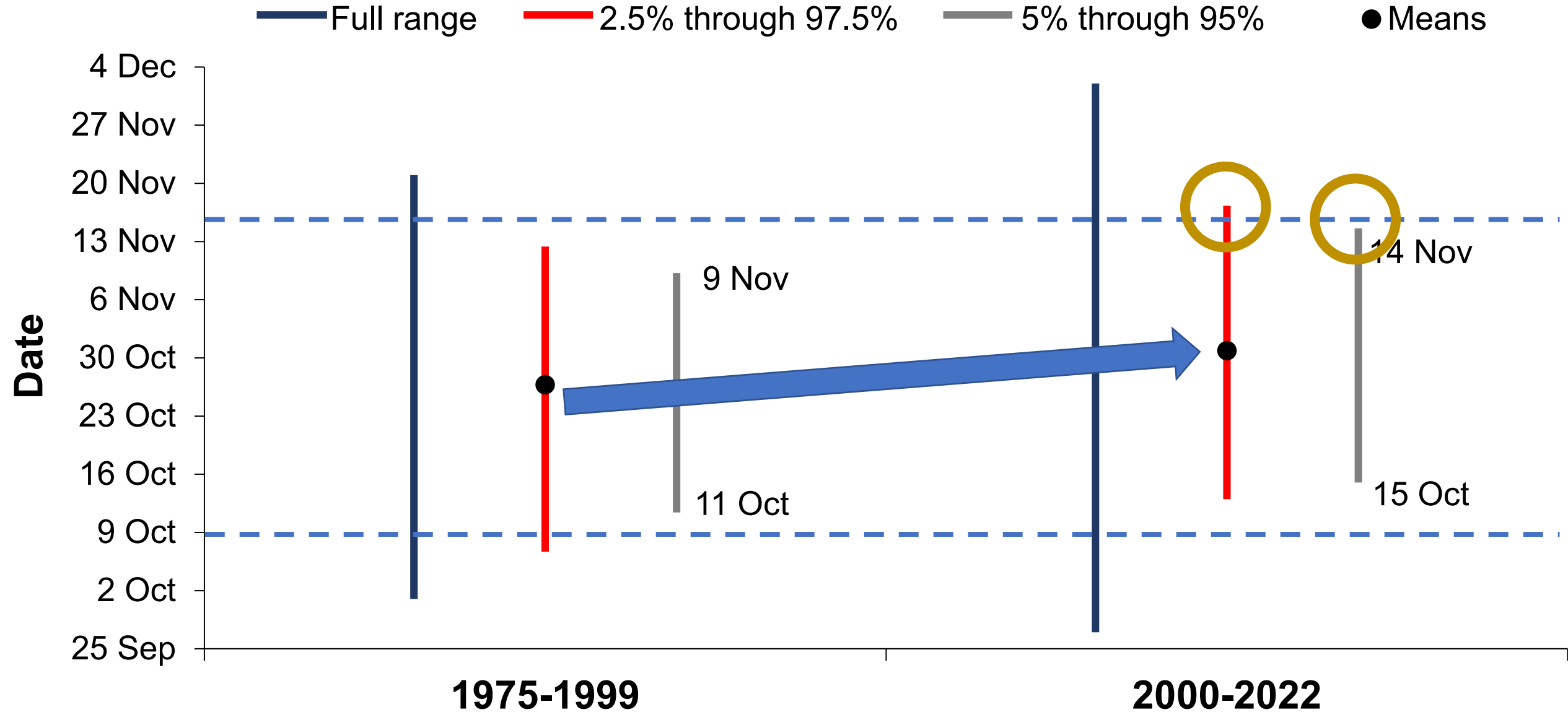
USFWS Public Sighting Data—Fall



USFWS Public Sighting Data—Fall



USFWS Public Sighting Data—Fall



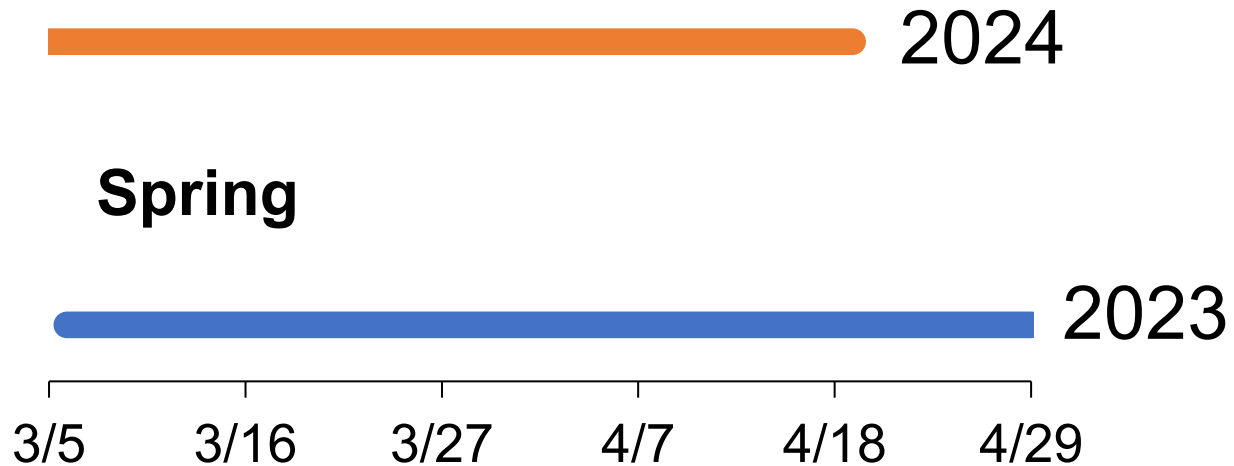
Recommendations

- Change dates for PRRIP spring and fall monitoring due to:
 - Shifts in 5th and 95th percentiles
 - No PRRIP observations after April 20
 - No PRRIP observations before October 15
 - More PRRIP observations after November 15
- Use 10-year rolling periods to evaluate changes in percentiles
 - Survey dates based on 2.5th and 97.5th percentiles
 - Annual examination of current established survey dates



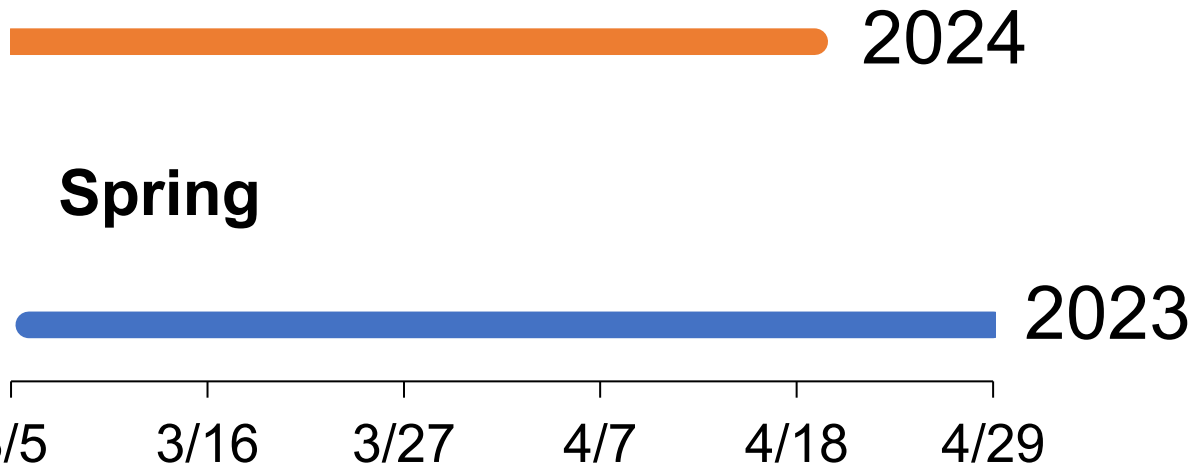
Establishing 2024 Survey Dates

- 2013–2022 spring data
 - 2.5th–97.5th percentiles:
March 5–April 19

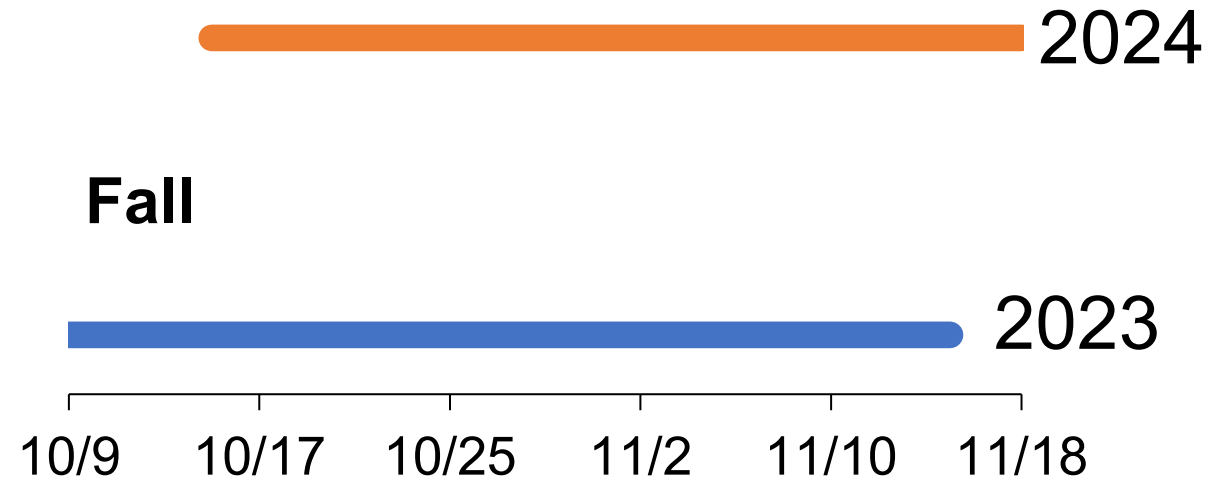


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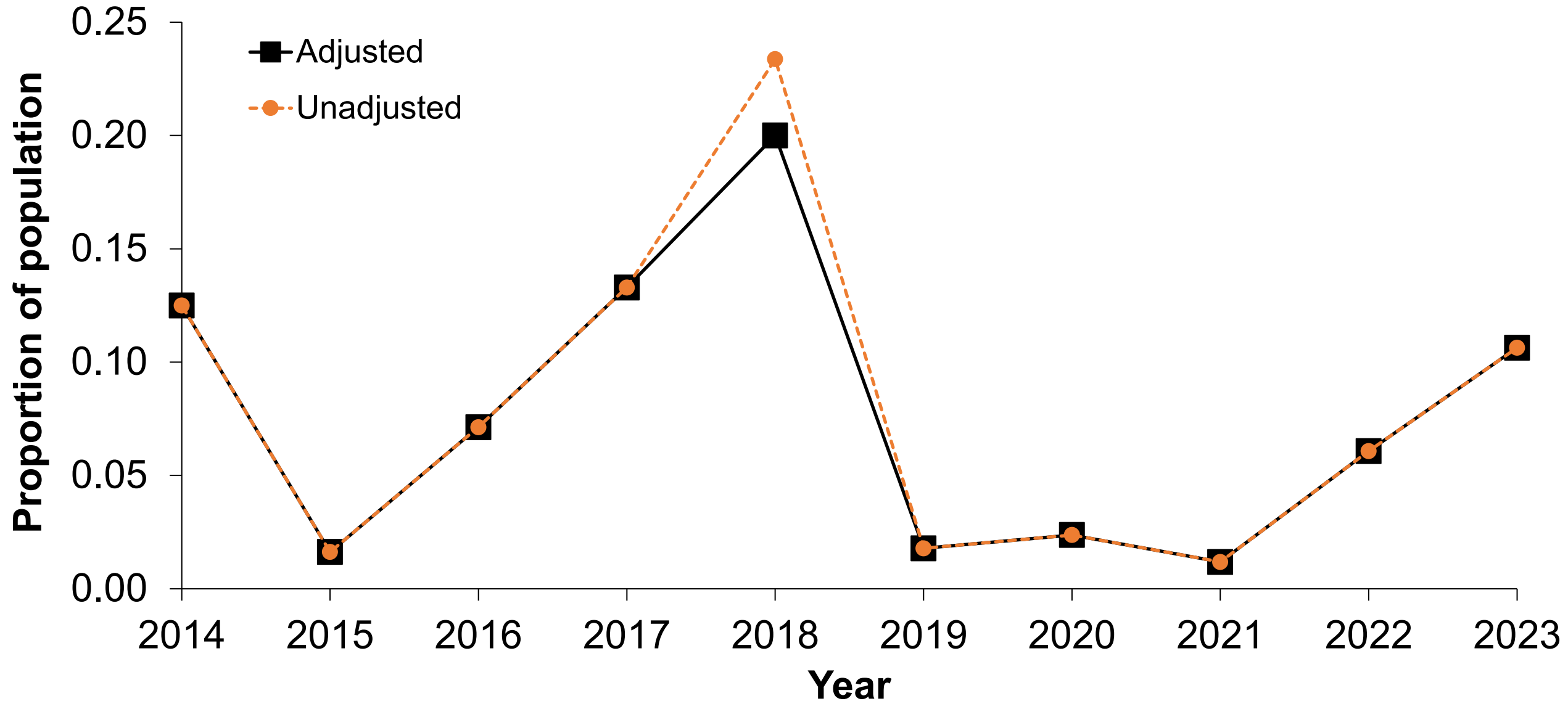
- 2013–2022 fall data
 - 2.5th–97.5th percentiles:
October 15–November 18



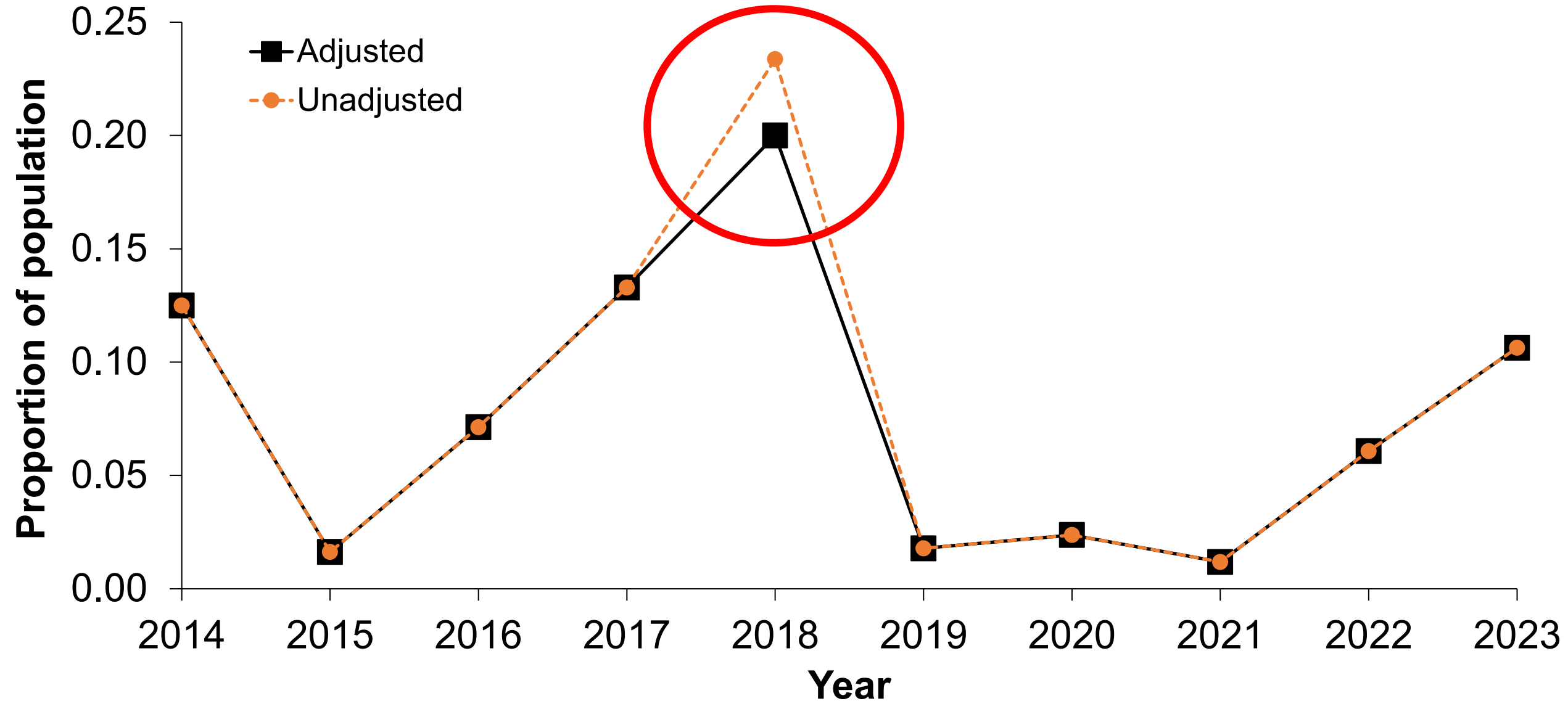
Comparing and Reporting Data Across Years

1. Calculate 5th and 95th percentiles from previous 10 years
2. Determine metrics between percentiles
3. Report each season's metrics as those within dates encompassing 5th and 95th percentiles
4. Identify years when survey periods did not include 5th and 95th percentiles

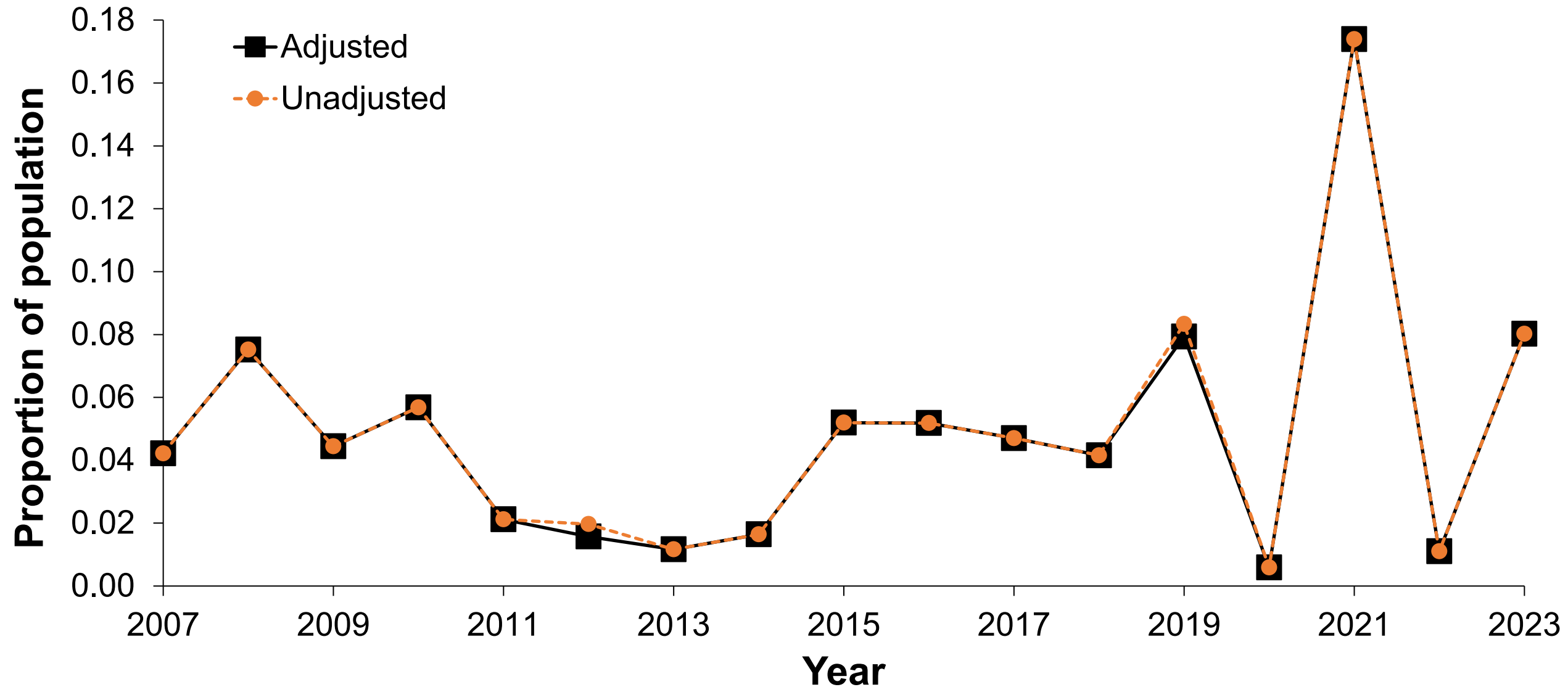
Adjusted Spring Proportion of Population



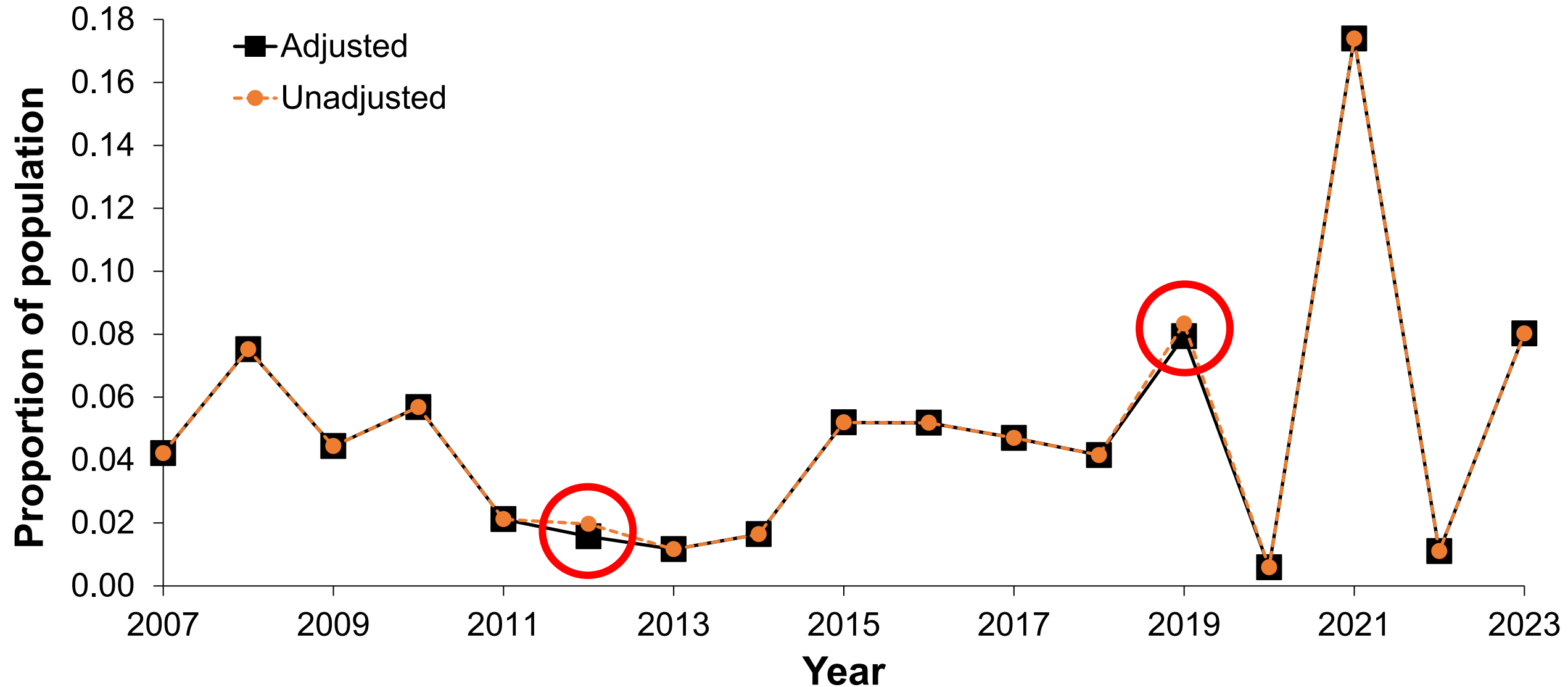
Adjusted Spring Proportion of Population



Adjusted Fall Proportion of Population



Adjusted Fall Proportion of Population



Questions?



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