



Coccidiosis prevalence study using data generated in Aviapp®

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9th International Conference on Poultry Intestinal Health

22-24th of April 2026

Objectives



- Coccidiosis pressure and prevalence are influenced by numerous factors like, climate, usage of coccidiostats or vaccines, stocking density and management.
- Complete eradication is not possible and a baseline level of coccidial presence will persist on each poultry farm.
- This study aims to evaluate how coccidiosis dynamics vary across continents and over different years in commercial broilers.

Methods



- Each country has at least 120 birds scored (10/month on average)
- Trends are based on the monthly averages, adjusted for age and observer
- Adjustments are done using regression techniques
- Linear mixed modelling
 - Fixed effects - month, year, country and their interactions
 - Random effects - age and observer
- Monthly averages are calculated by weighted means with the inverse variance as weights
- **Average scores are shown, not peak scores**



Data used in the study per parameter

- Coccidiosis lesion scoring (Johnson and Reid, 1970)

Year	Countries	Companies	Farms	Flocks	Birds
2023	21	107	5100	12094	68783
2024	21	108	5002	13739	74978
2025	21	107	4867	12396	68242

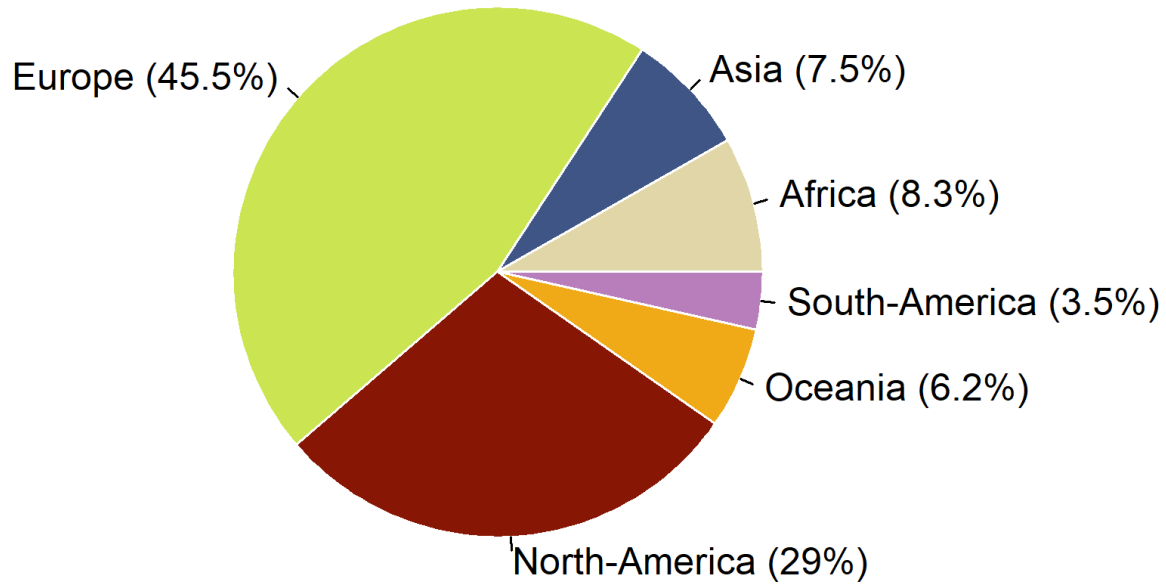
- Foot pad dermatitis (L. Berg, 1998)

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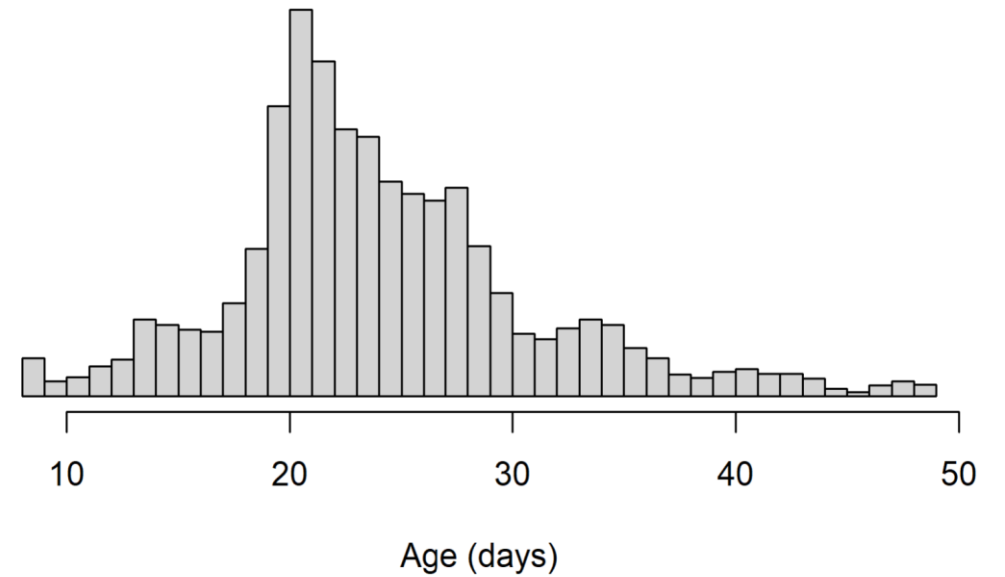
- Dysbacteriosis scoring (M. De Gussem, 2011)

Year	Countries	Companies	Farms	Flocks	Birds
2023	18	91	2284	7333	41454
2024	19	98	2684	9099	48959
2025	18	98	3112	9267	50578

Global spread of data (2023-2025)

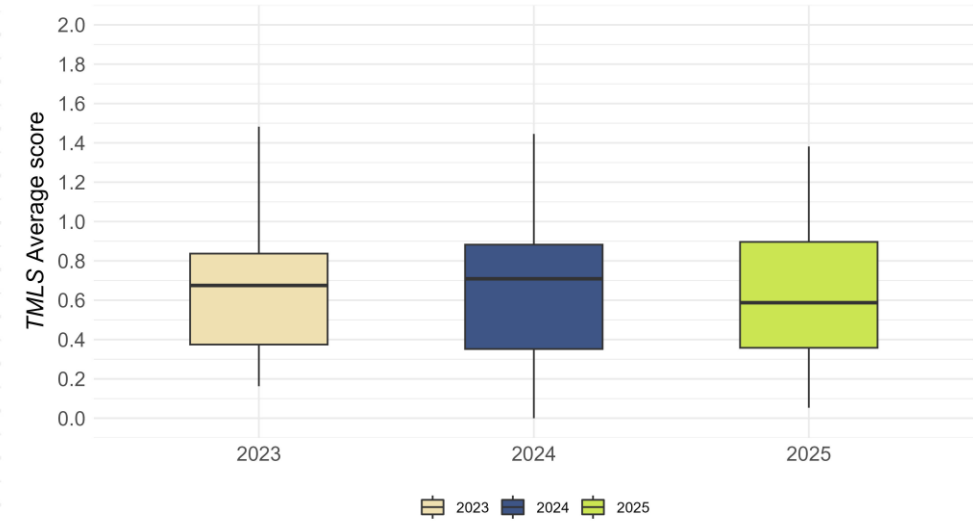
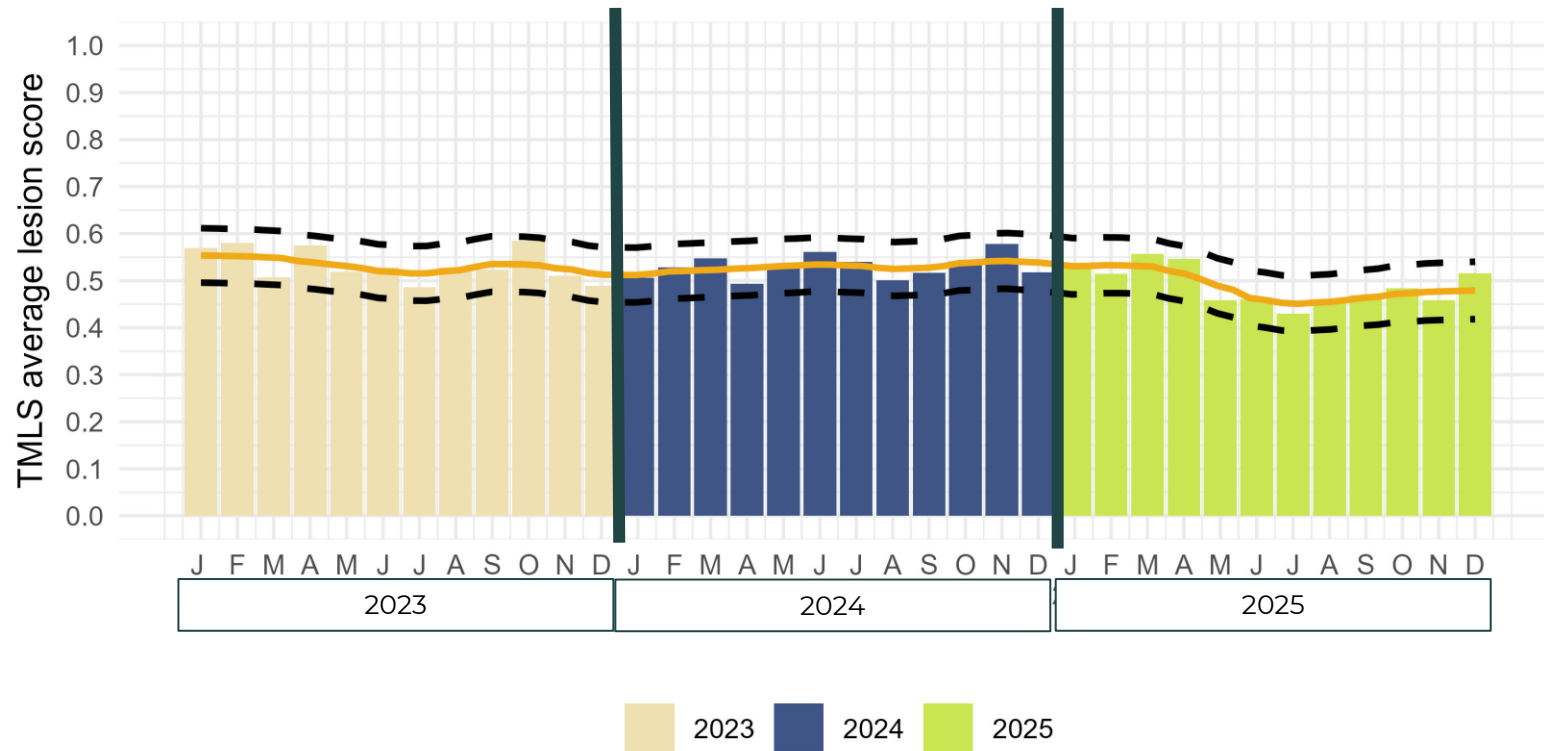


Regional spread

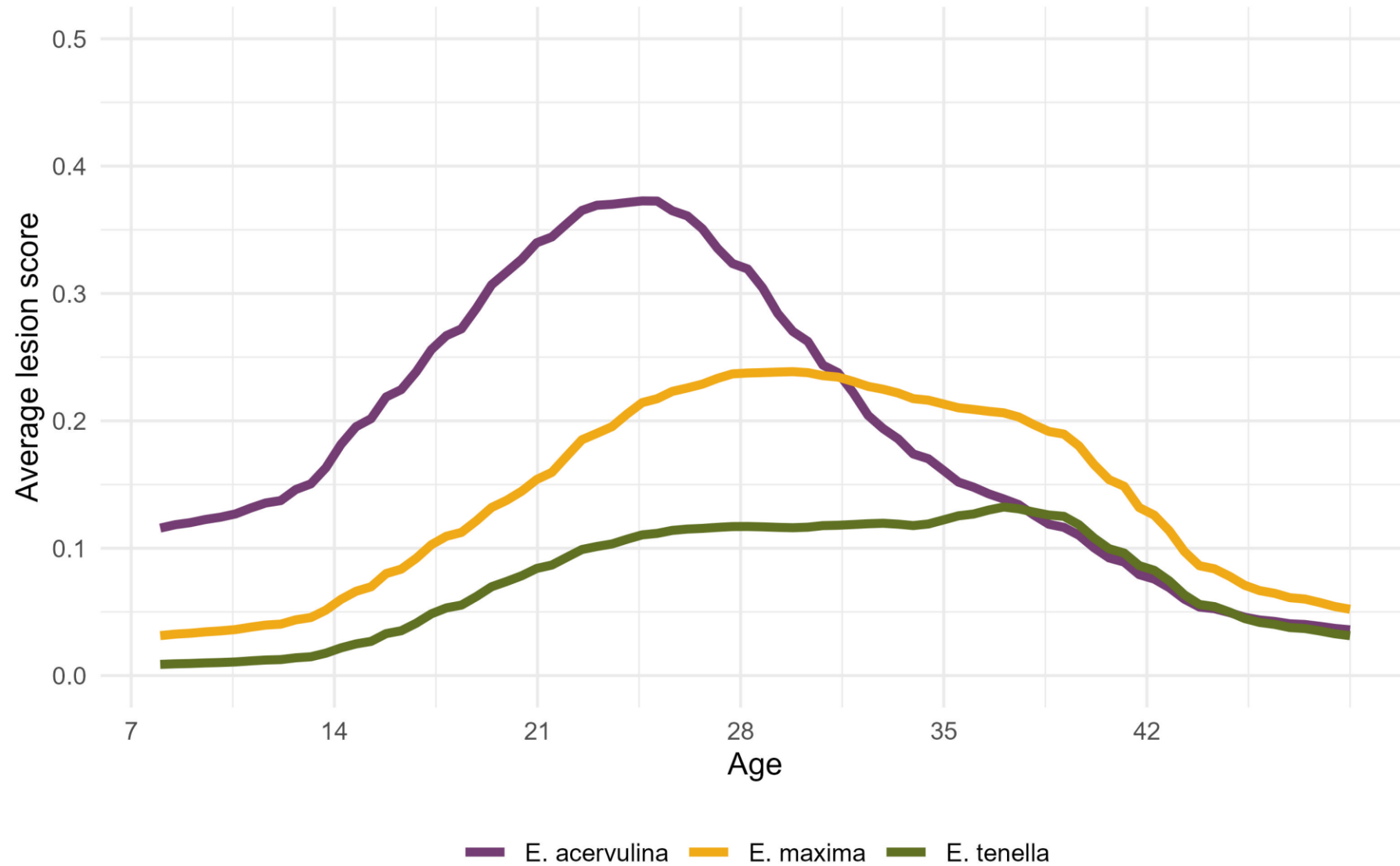


Age distribution of birds

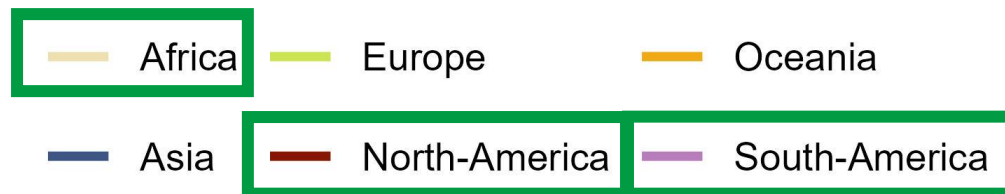
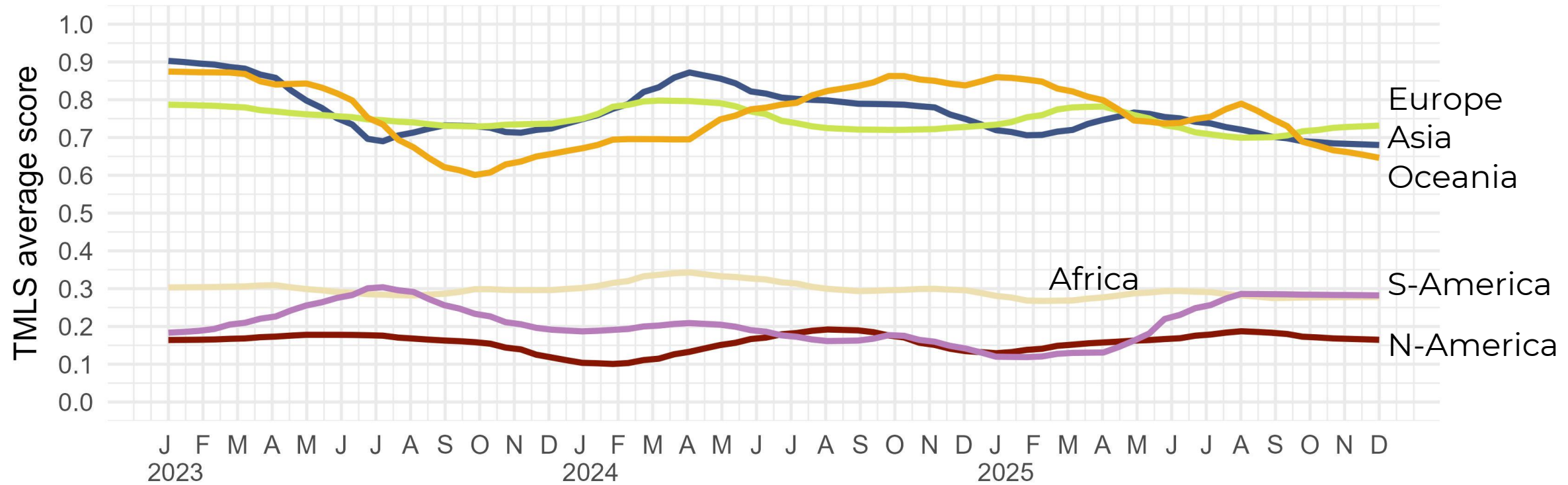
TMLS – average lesion scores (global)



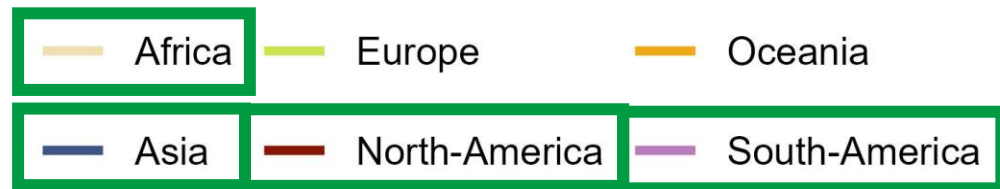
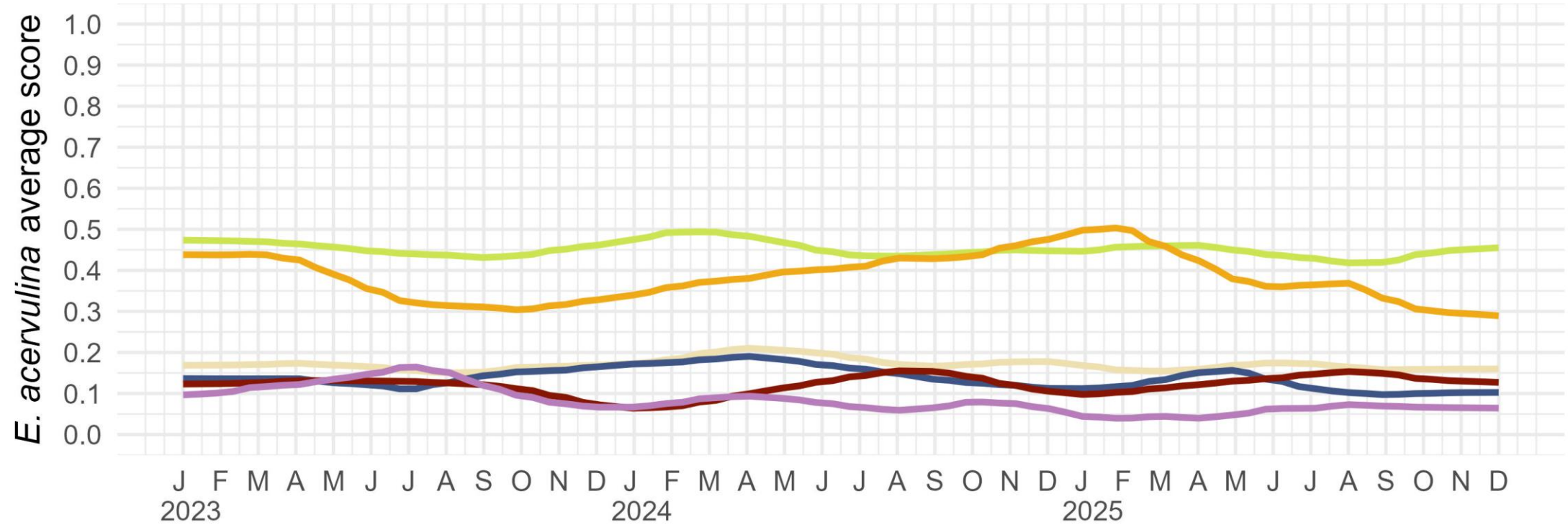
Age plot of different *Eimeria* species



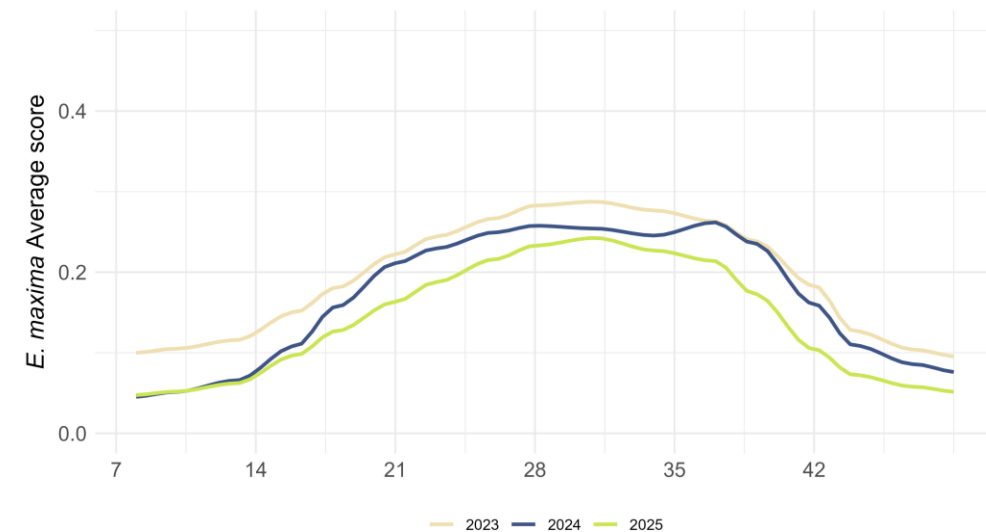
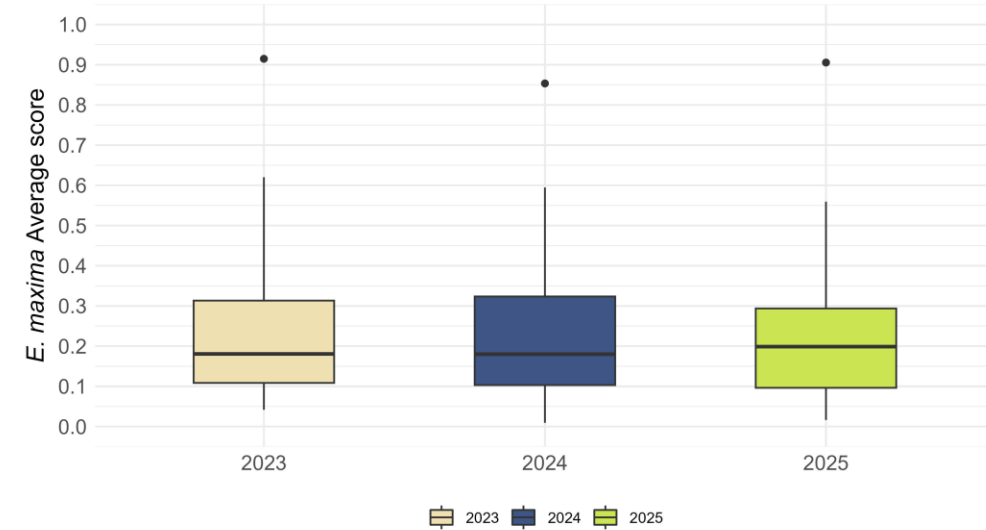
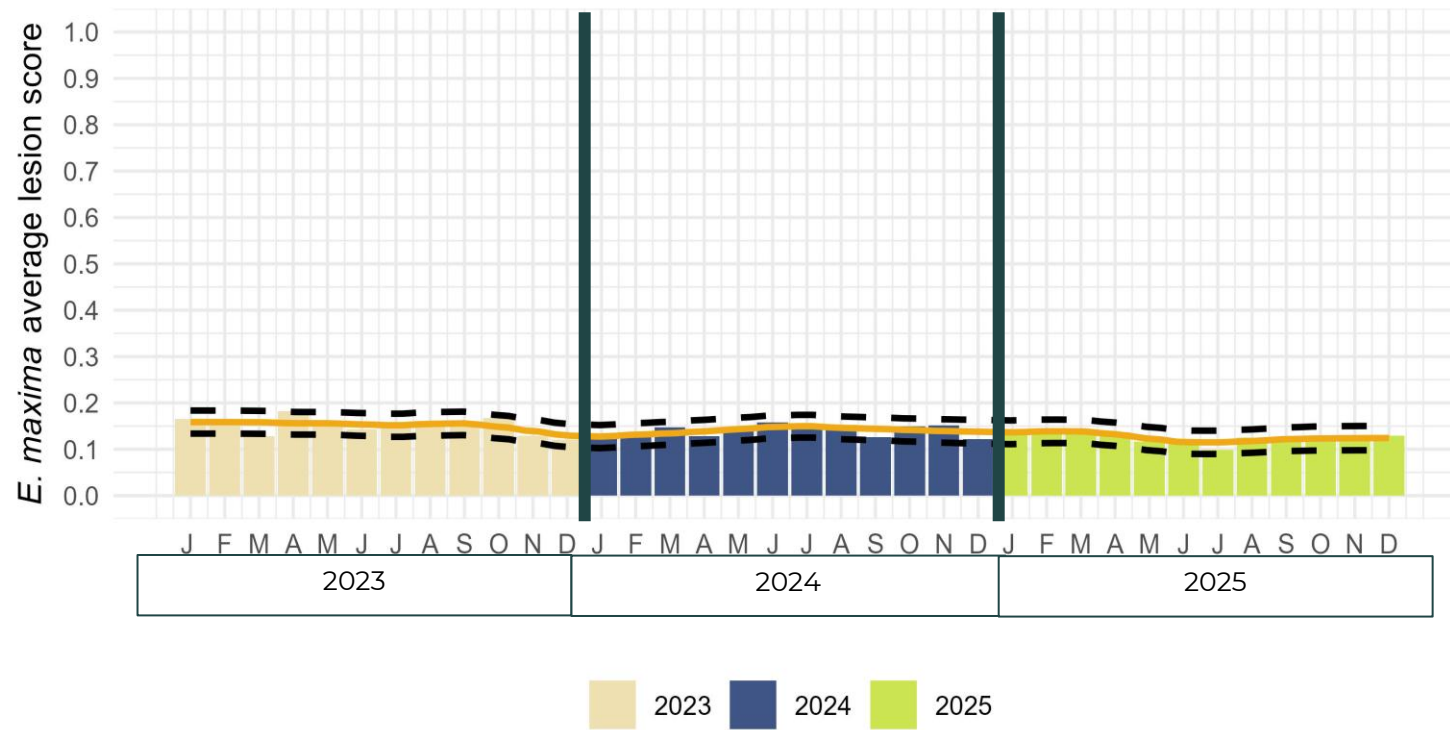
TMLS – differences between continents



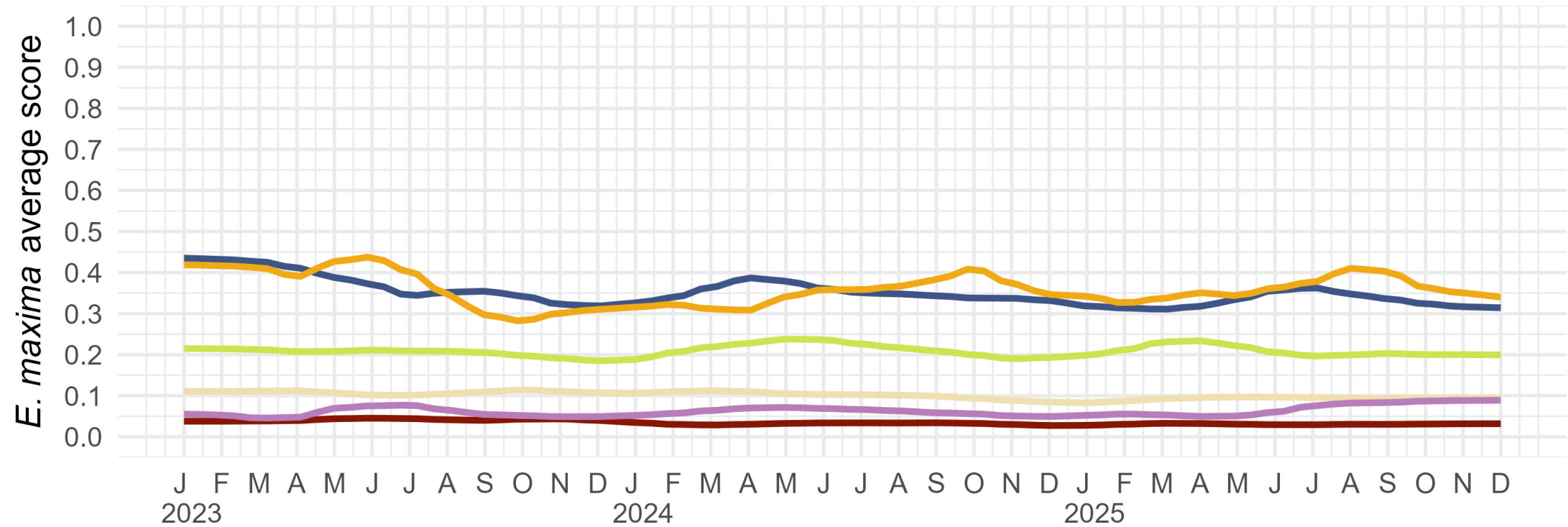
E. acervulina – differences between continents



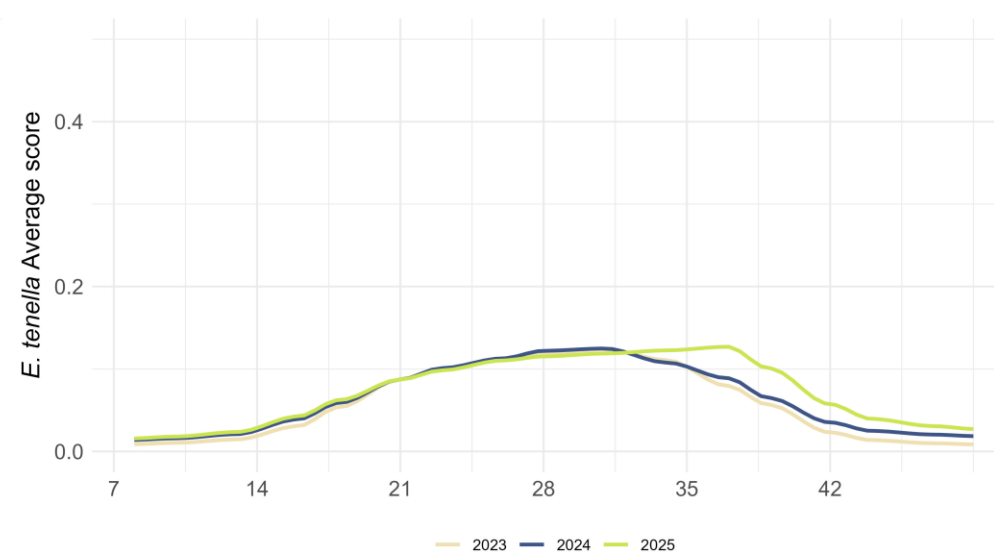
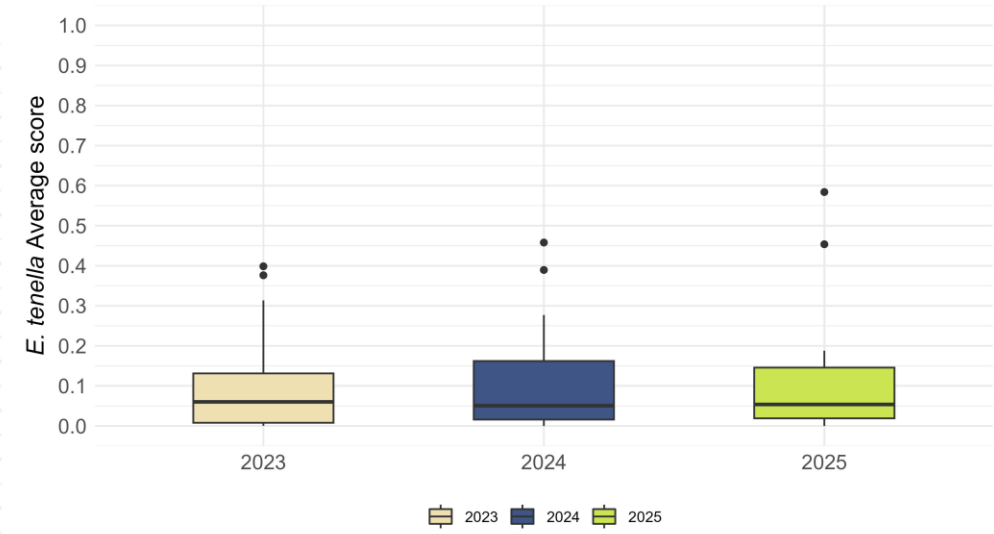
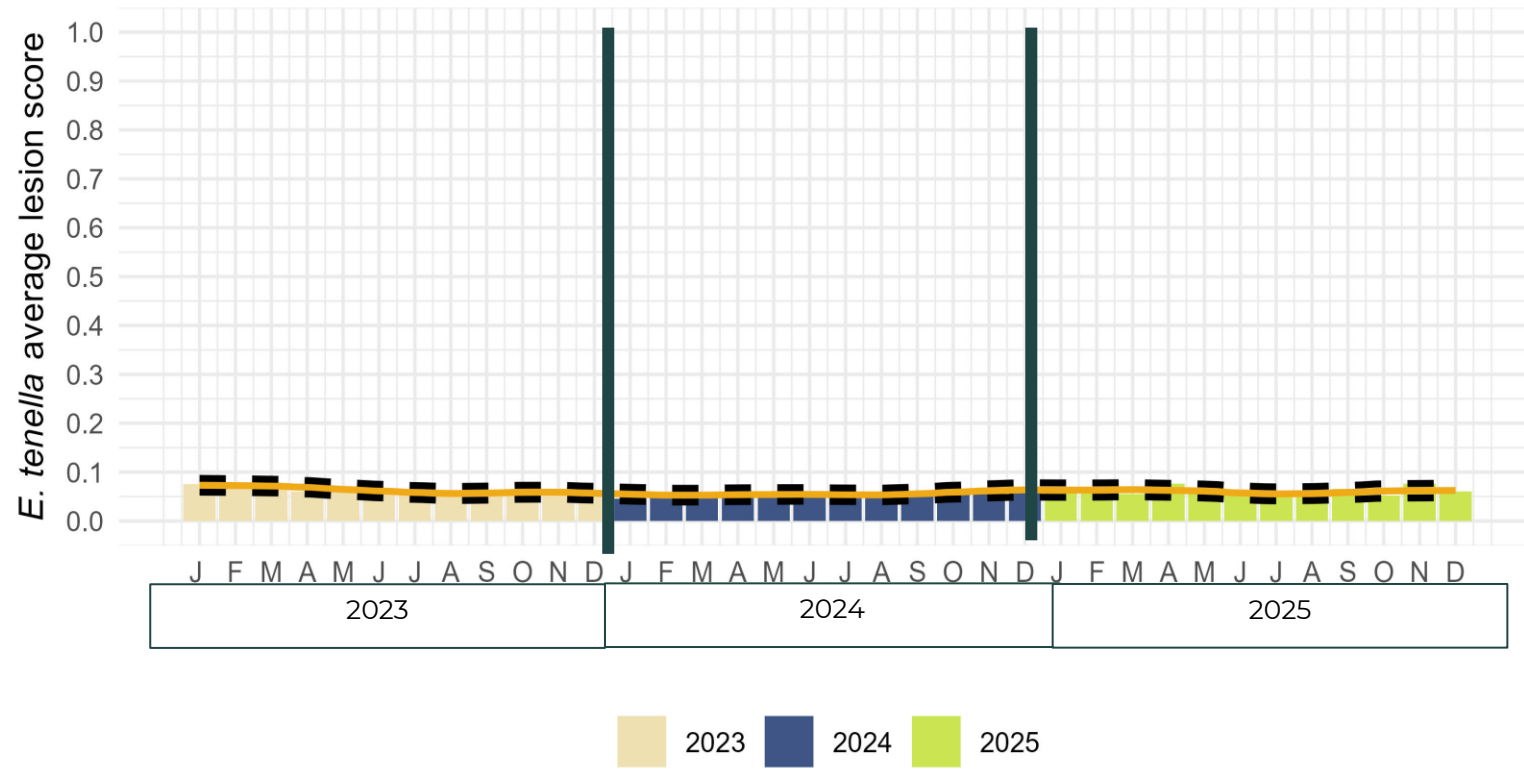
E. maxima – average scores (global)



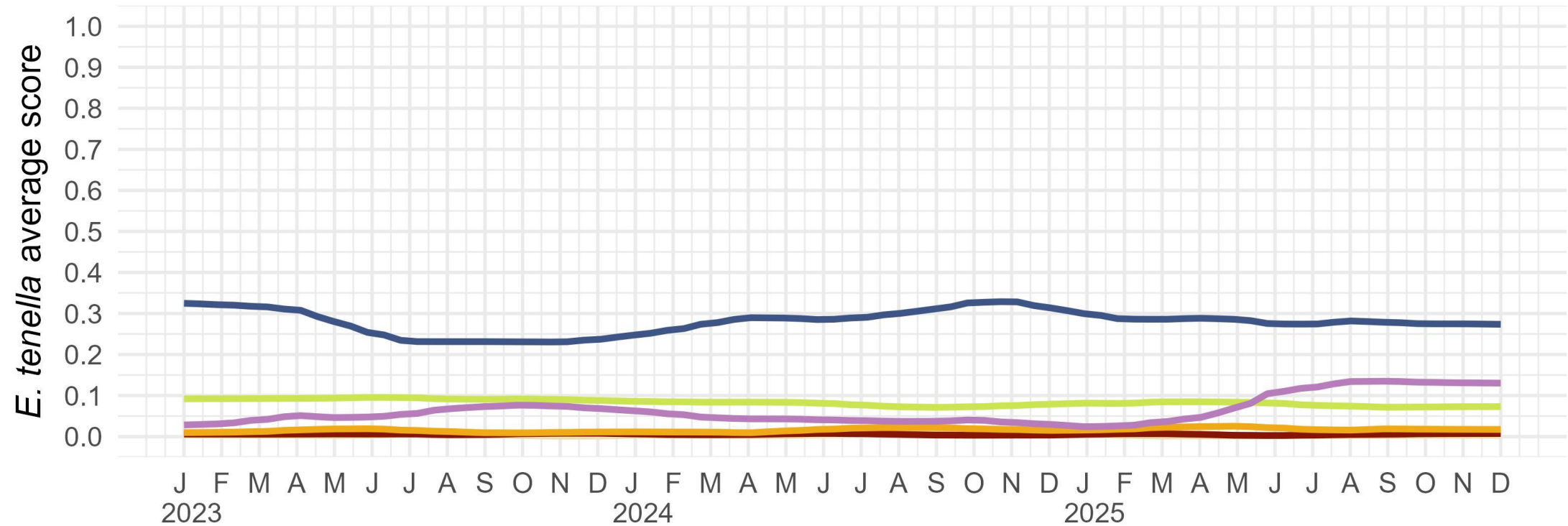
E. maxima – differences between continents



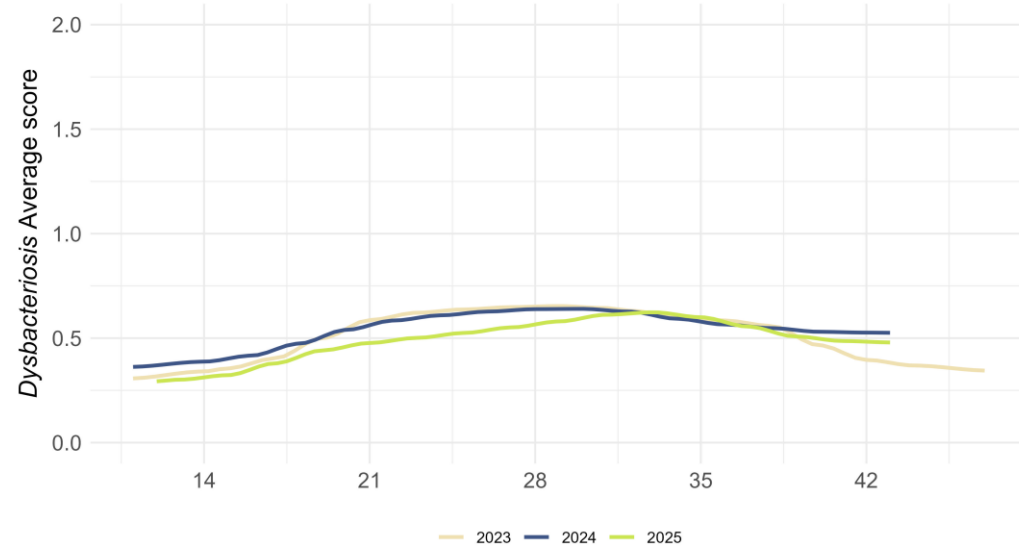
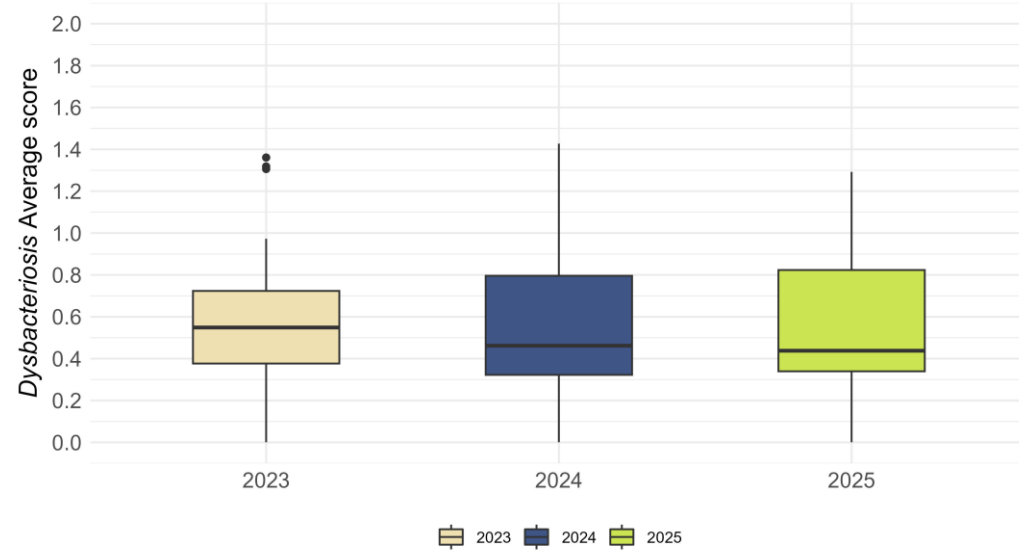
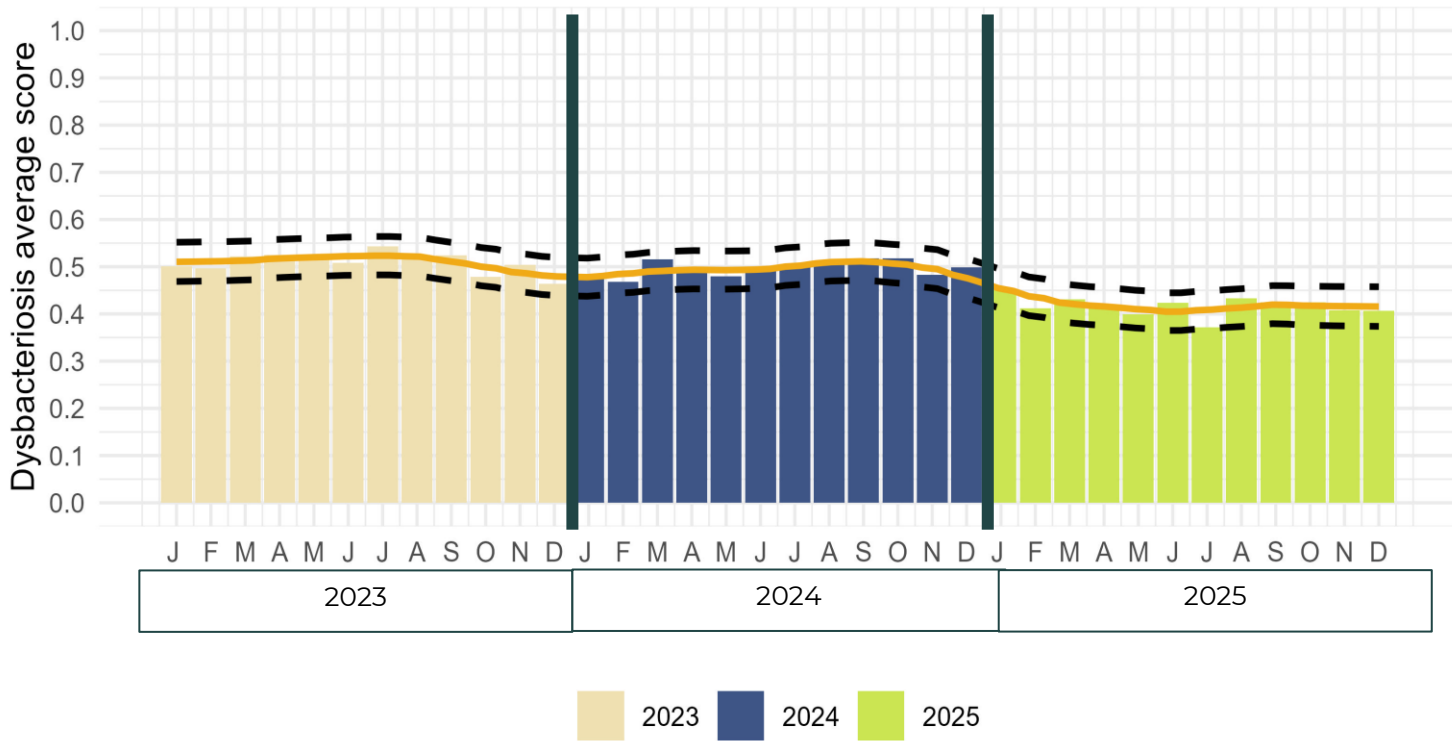
E. tenella – average scores (global)



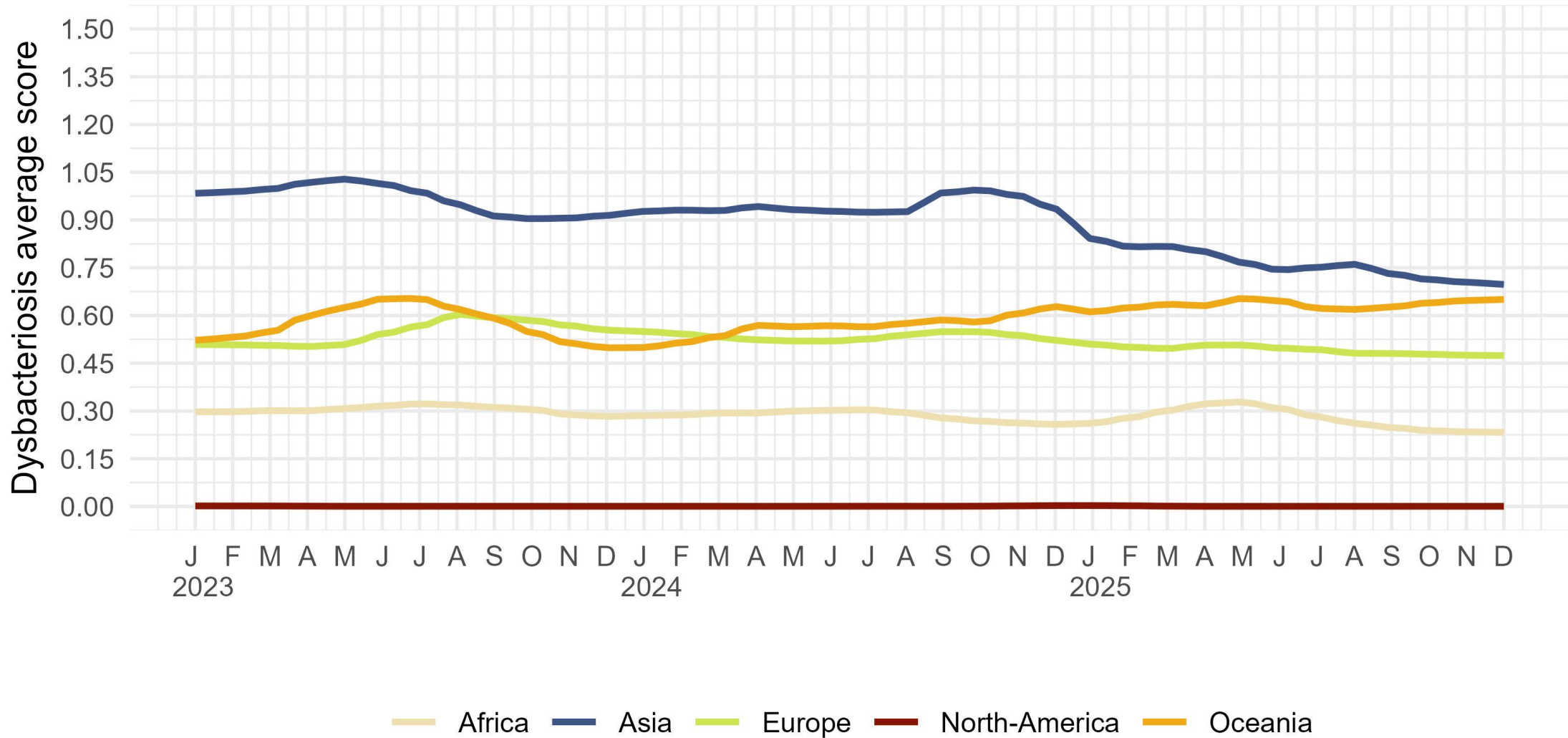
E. tenella – differences between continents



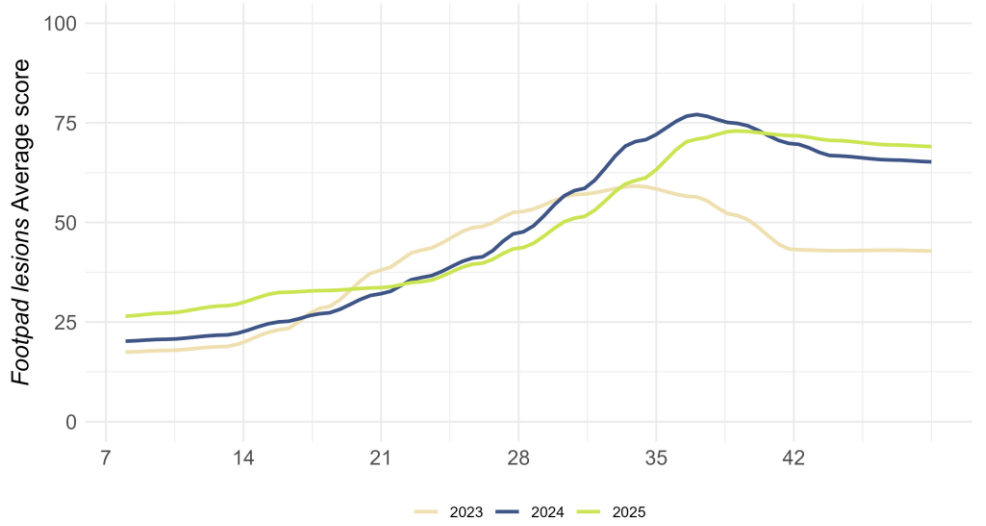
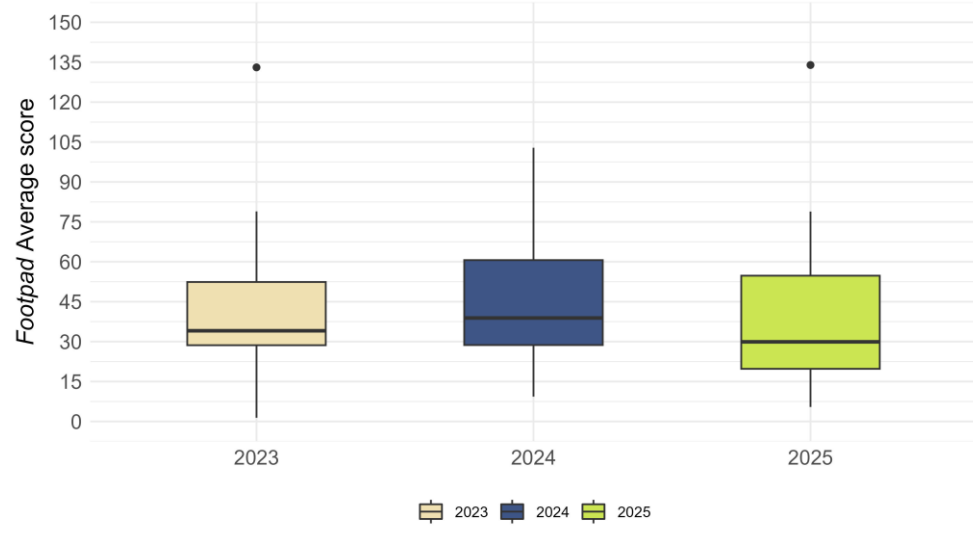
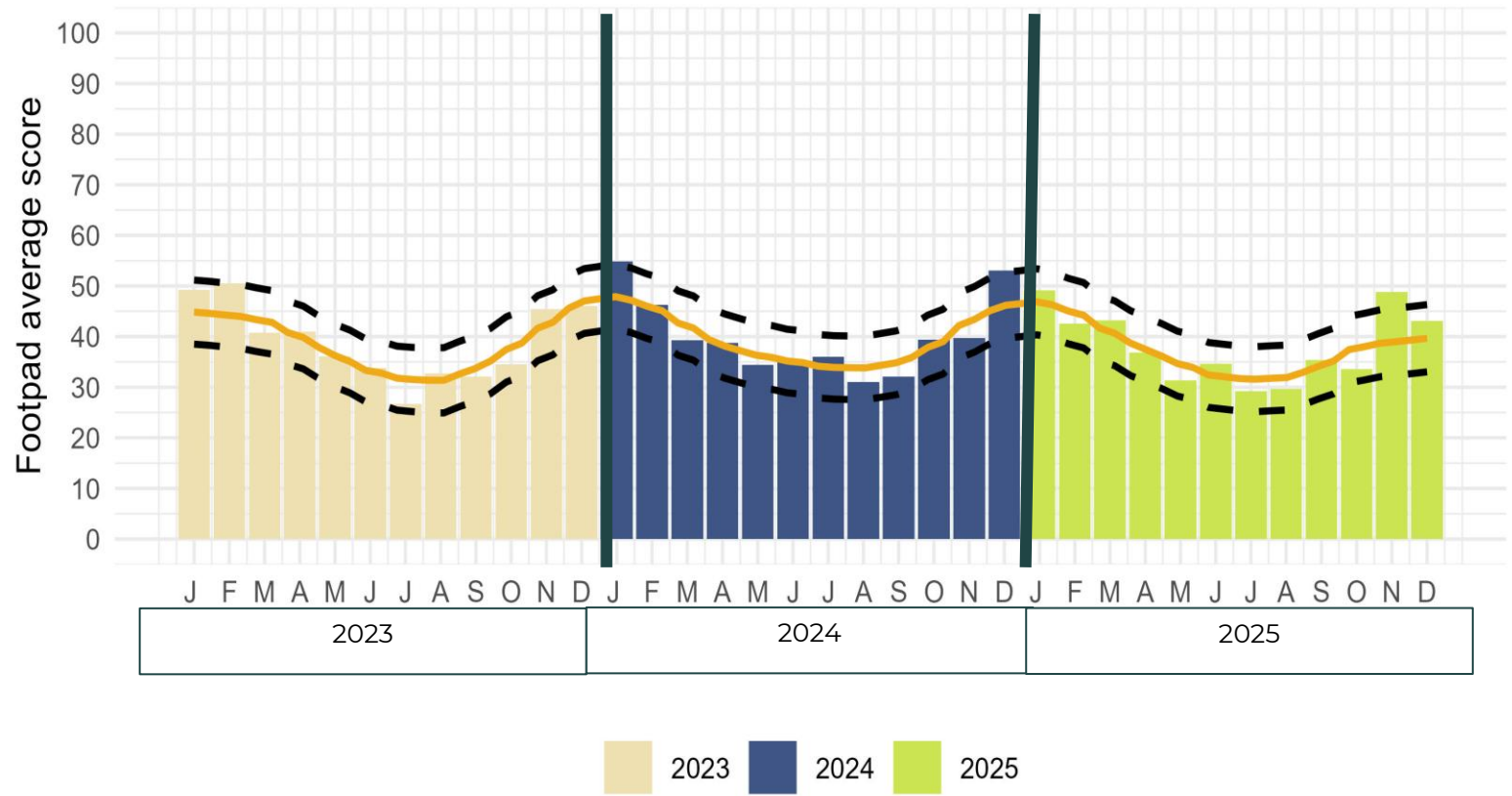
Dysbacteriosis scores (global)



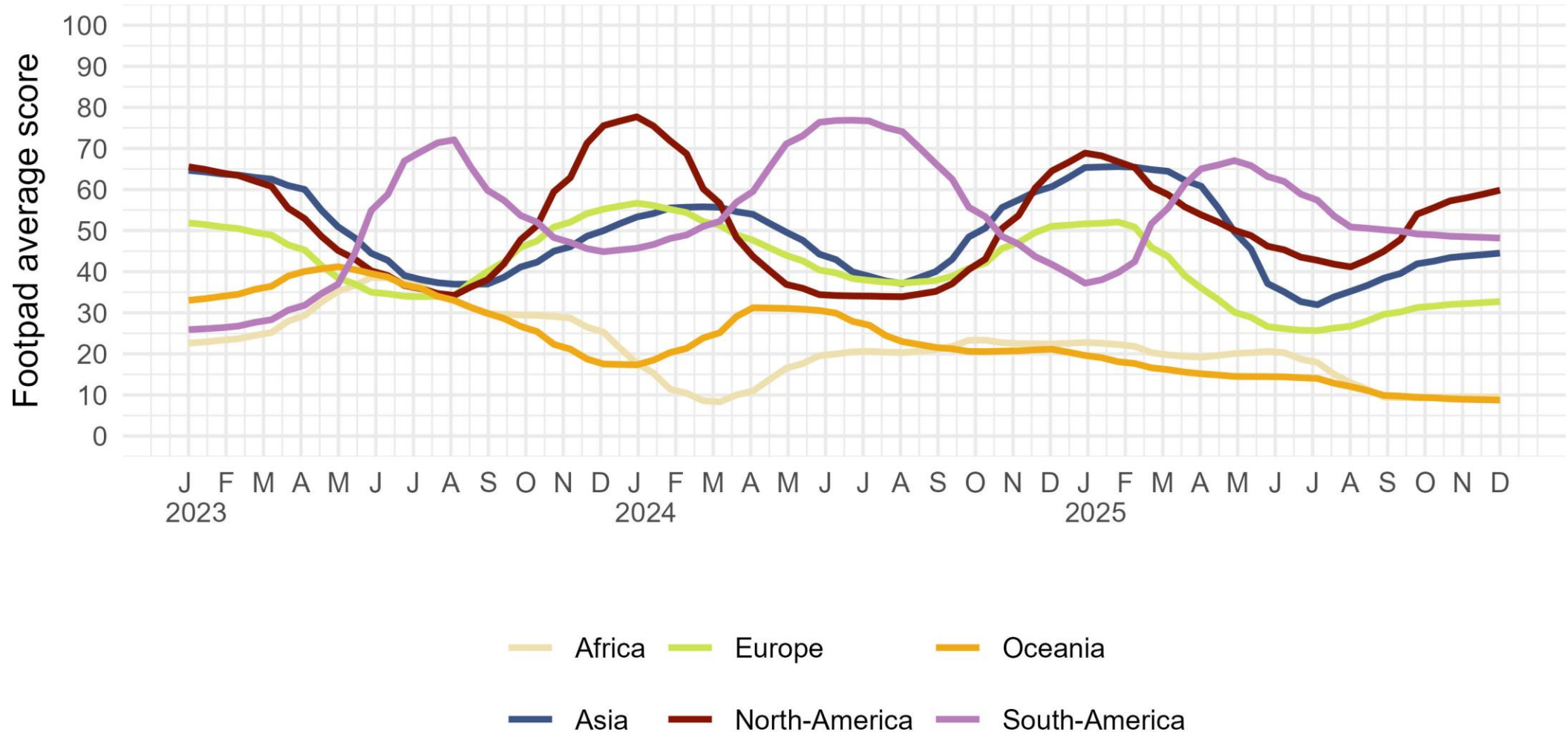
Dysbacteriosis – differences between continents



Foot pad dermatitis scores (global)



Footpad dermatitis – differences between continents



Differences between countries



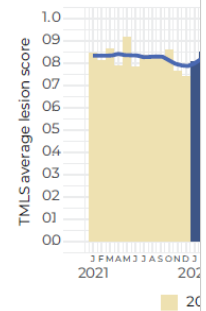
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Average TML

The total mean lesion score for *E. acervulina*, *E. max* values only minorly vary. Trends in quite similar.

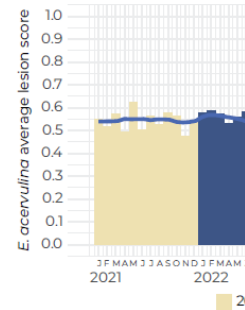
Figure 2. Trend of the T



E. acervulina tr

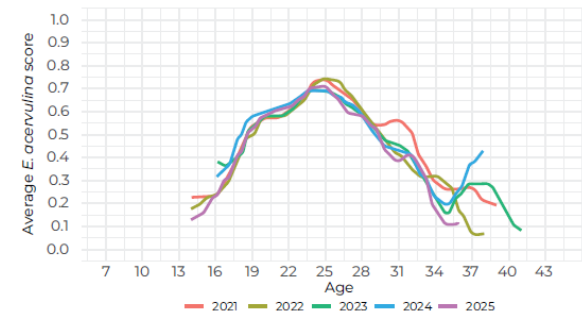
E. acervulina is the main cc species which give the most (some) to have a limited impact. It can lead to significant losses.

Figure 4. The trend of the *E.*



E. acervulina trends in Europe from 2021 to 2025

Figure 6. *E. acervulina* average score from 2021 till 2025 correlated with the age of the birds



E. acervulina also has the earliest cycling (Table 1) with the peak of lesion score occurring between 24 and 26 days of age over the years included in this report. The maximal score (average) at this age shows no clear trend with stable estimates around 0.7.

Table 2. The average *E. acervulina* peak score and age per year

Year	Age at peak	Average at peak age
2021	26	0.67
2022	25	0.77
2023	25	0.70
2024	25	0.73
2025	24	0.73

Conclusion



- Global coccidiosis pressure is stable with an average TMLS between 0.5 and 0.6
- *E. acervulina* peaks around 24 days / *E. maxima* around 29 days / *E. tenella* around 36 days
- Important variations are noted between continents and countries
- Aviapp[®] provides a benchmark to compare company results with the country/region average

Thank you



Shaping livestock solutions