

Lines 197–198: The text mentions ERA5-Land, but elsewhere the work appears to use ERA5 (coarser native resolution). Please confirm which product(s) were used and ensure consistency throughout. To improve reproducibility, explicitly list for each dataset: native spatial/temporal resolution, temporal coverage, variables used, and all post-processing steps (e.g., temporal aggregation, resampling, regridding). A compact table would be acceptable for that and would improve the manuscript.

We thank the reviewer for pointing this out. We confirm that ERA5-Land was used for this study at its native 0.1° spatial resolution. The manuscript has been updated including the correct citation for ERA5-Land and Table S1.

Following the reviewer's recommendation, Table S1 has been updated to include the following additional information for each dataset: native spatial resolution/scale and post-processing applied.

Line 200: Please revise the climatological baseline to align with WMO practice: 1991–2020 (not 1991–2021). Adjust wording and any affected calculations/figures accordingly.

We thank the reviewer for the suggestion regarding the climatological baseline. While it is true that the WMO reference period is 1991–2020 should be used, we have decided to retain the 1991–2021 baseline for this study because ignition samples from 2021 are available for PS2 (Central Europe) and PS5 (East Attica), and which is crucial in PS5, as it is the area with the fewest records.

To verify that this choice does not affect the results, we quantified the absolute differences between the original (1991–2021) and WMO (1991–2020) baseline rasters, aggregated across the full spatial and temporal extent of each pilot site. The resulting mean absolute differences are very small (PS1: 0.038; PS2: 0.027; PS3: 0.114; PS4: 0.038; PS5: 0.147), ensuring that retaining the 2021 data introduces only minor differences and does not affect the conclusions of the study.

Line 108: There is a visible error message (likely a broken cross-reference). Please fix the cross-reference and scan the manuscript (including captions and supplement references) to ensure no similar messages remain.

Checked

Line 254: Typo. Correct to “Southern Sweden”

Done

Line 222: Typo. Correct to “Euclidean distance”

Done