Basilico e cambiamento climatico: scenari futuri, estremi presenti

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STREAM2B

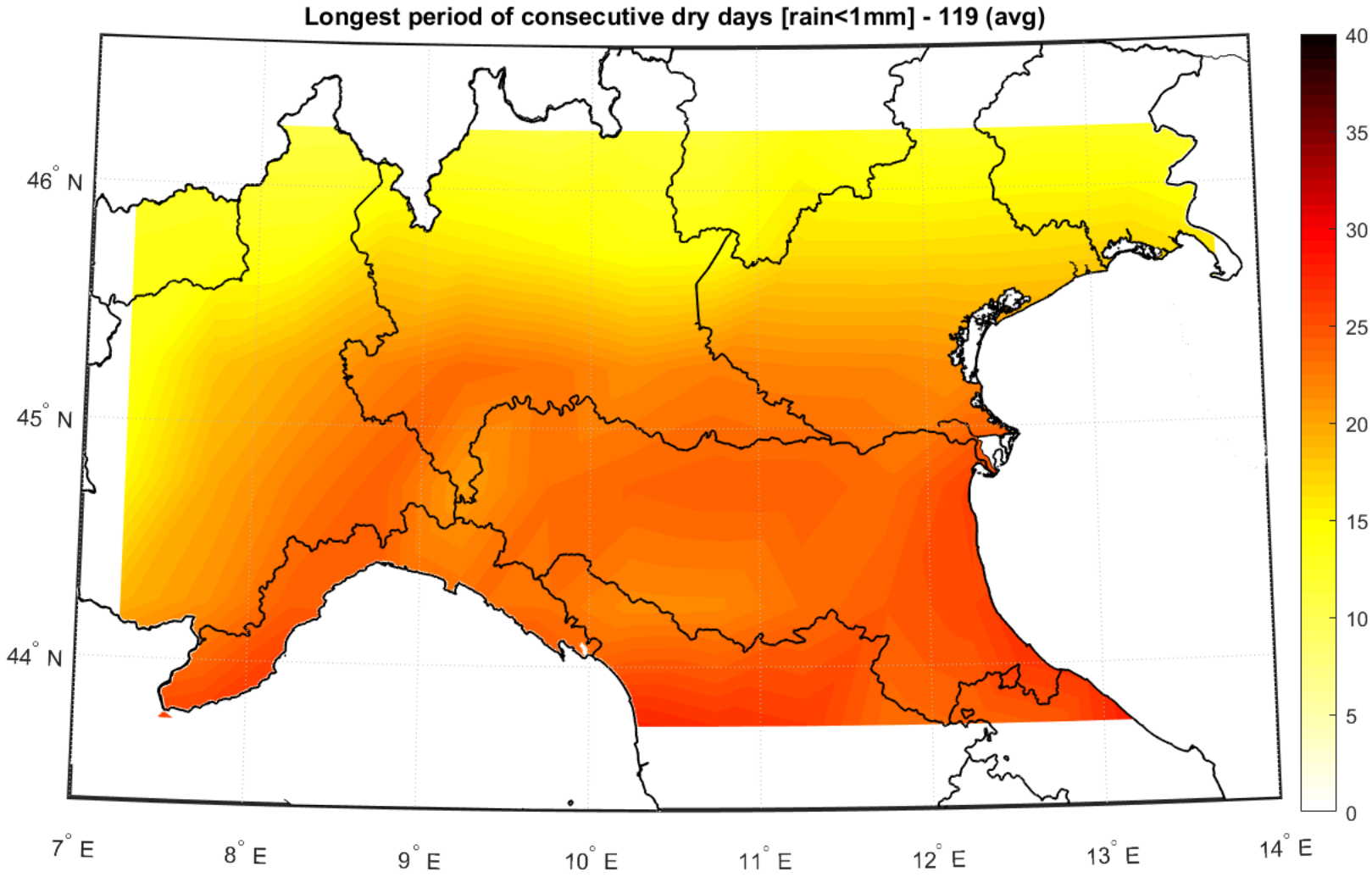
PARMA 5 Novembre 2026

COESIONE ITALIA 21-27 EMILIA-ROMAGNA

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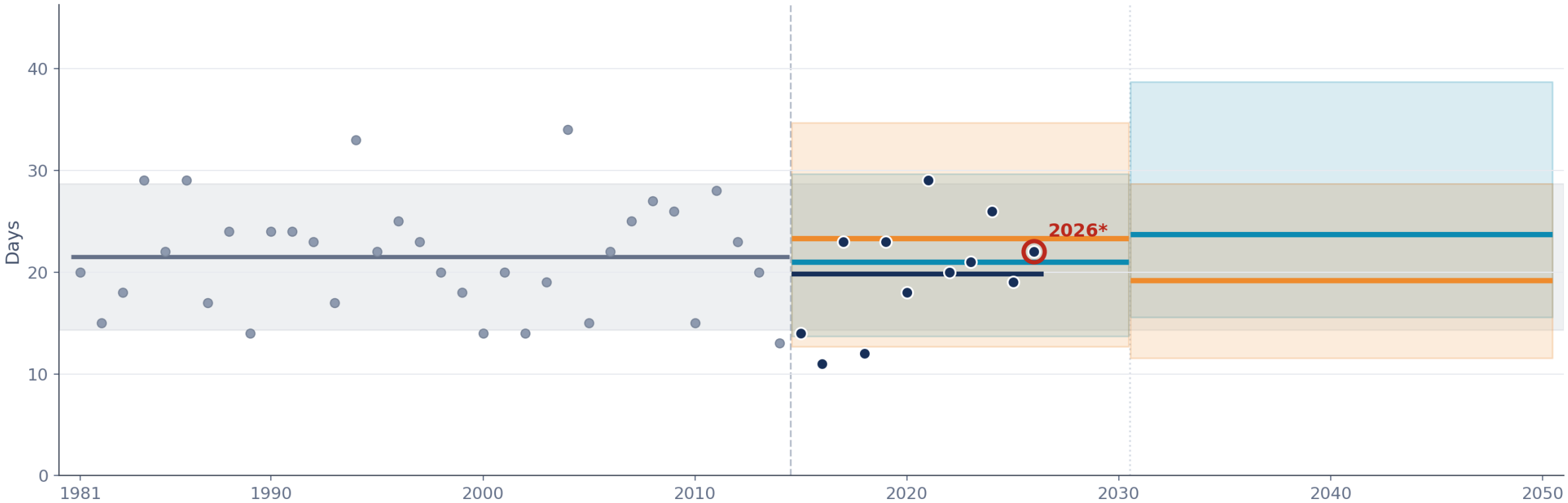
Cambiamento climatico: sintesi degli scenari futuri (storico 81-14 VS 15-50 SSP119, SSP370)



potenziale allungamento della stagione vegetativa.

Dry days

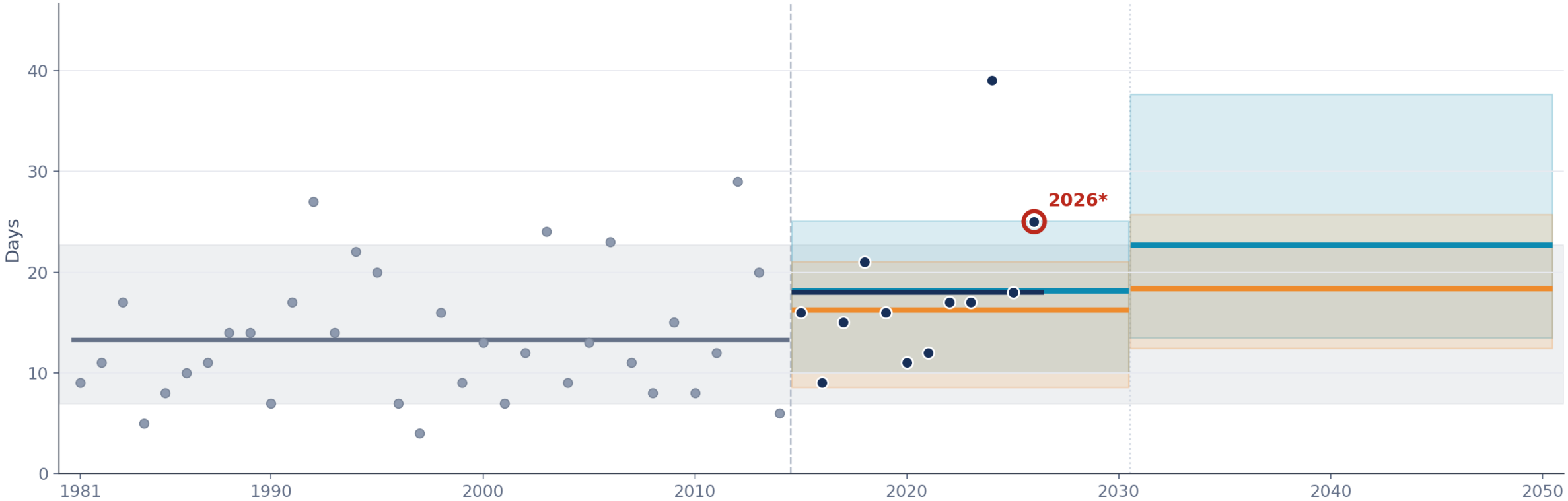
Longest run with precipitation < 1 mm | Parma area · 44.75°N, 10.25°E



* 2026: 1 Apr–19 Oct; other years: 1 Apr–31 Oct. SSPs aligned by historical mean offset; annual 10–90% ranges, not confidence intervals.

Hot days

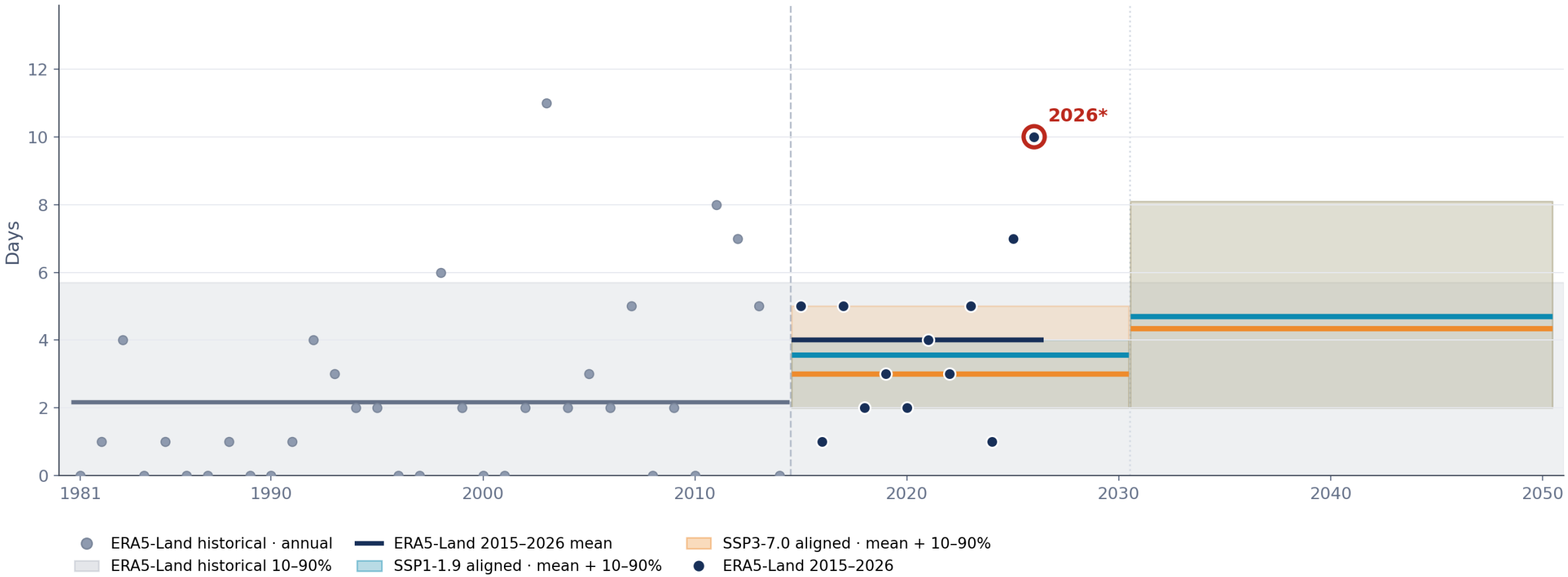
Longest run with Tmax > 30°C | Parma area · 44.75°N, 10.25°E



* 2026: 1 Apr–19 Oct; other years: 1 Apr–31 Oct. SSPs aligned by historical mean offset; annual 10–90% ranges, not confidence intervals.

Heavy hot days

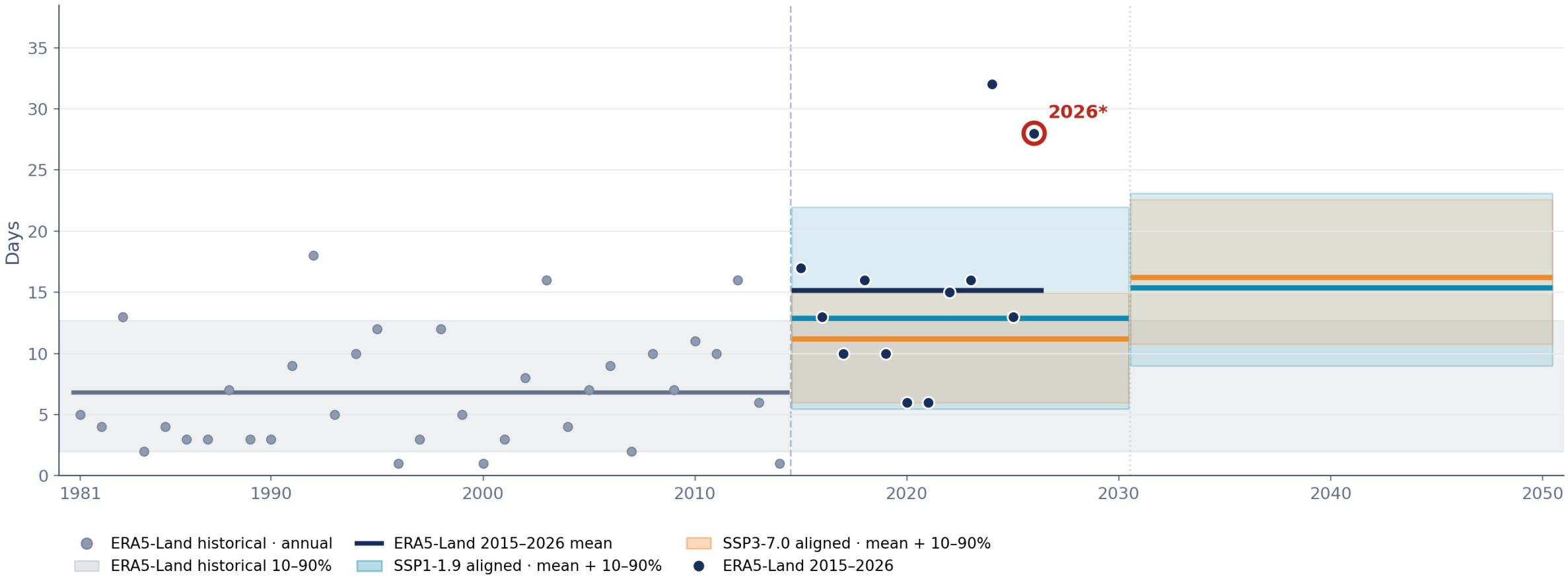
Longest run with Tmax > 35°C | Parma area · 44.75°N, 10.25°E



* 2026: 1 Apr–19 Oct; other years: 1 Apr–31 Oct. SSPs aligned by historical mean offset; annual 10–90% ranges, not confidence intervals.

Tropical nights

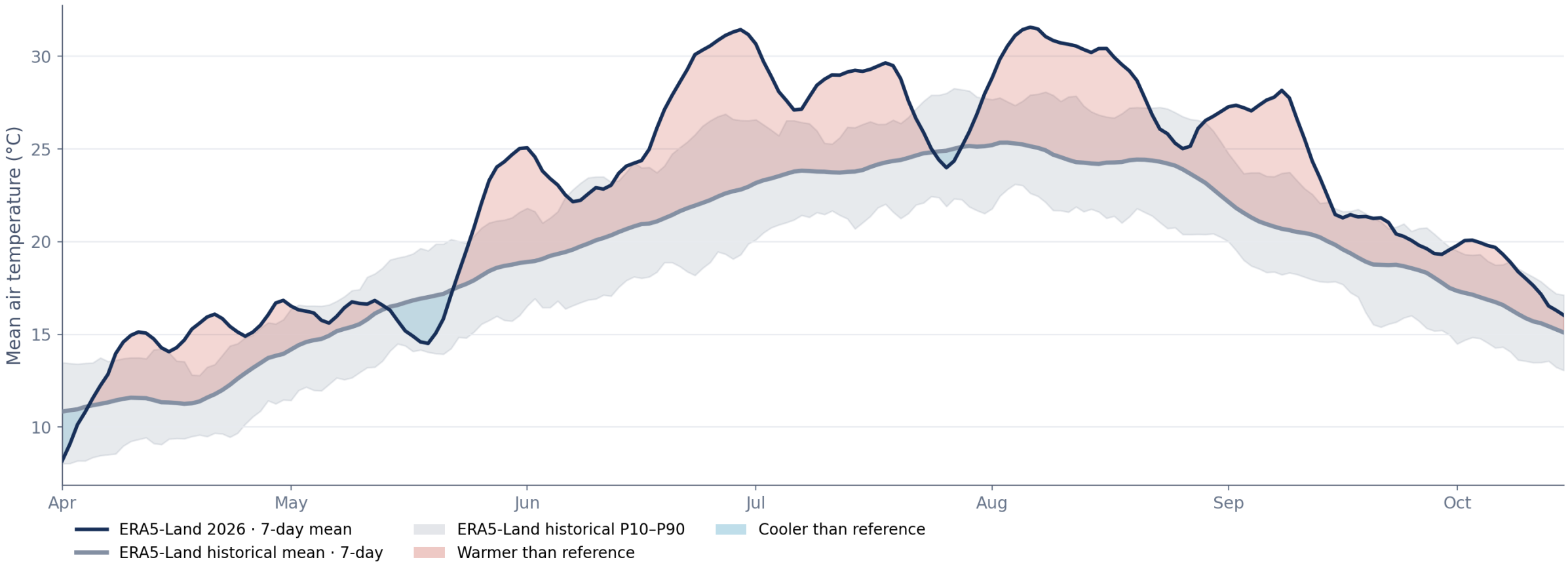
Longest run with Tmin > 20°C | Parma area · 44.75°N, 10.25°E



* 2026: 1 Apr–19 Oct; other years: 1 Apr–31 Oct. SSPs aligned by historical mean offset; annual 10–90% ranges, not confidence intervals.

Air temperature | 2026 vs ERA5-Land historical

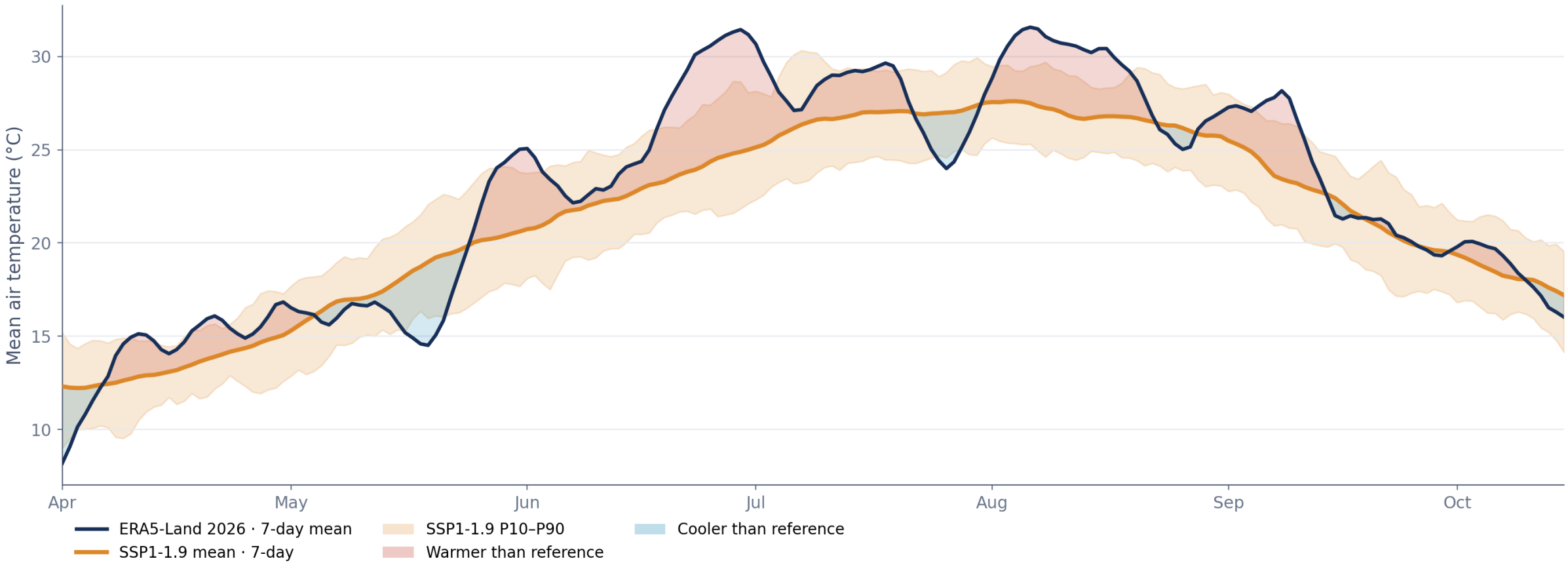
Parma · 1 Apr–15 Oct · ERA5-Land 2026 vs ERA5-Land historical (1981–2014)



7-day trailing mean for each year, then reference mean and P10–P90. ERA5-Land 2026 and historical: same data source.

Air temperature | 2026 vs SSP1-1.9

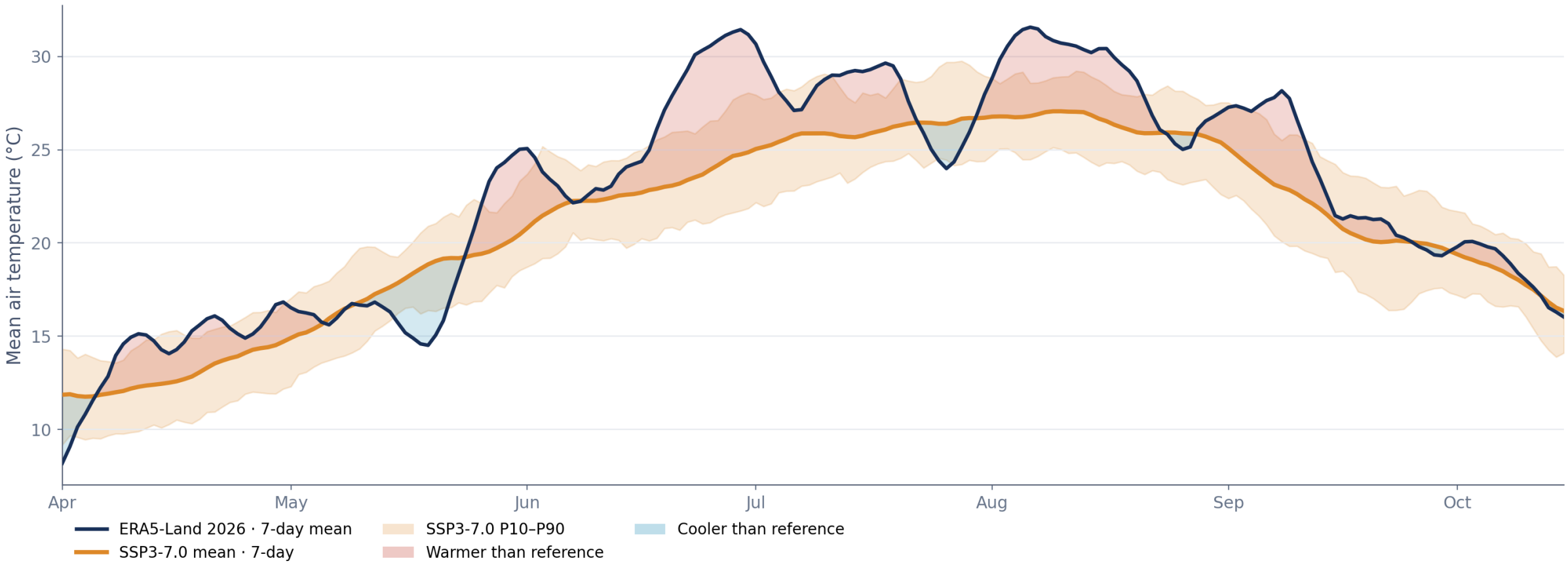
Parma · 1 Apr–15 Oct · ERA5-Land 2026 vs SSP1-1.9 (2015–2050) · monthly bias-adjusted



Monthly mean-temperature offsets: ERA5-Land minus historical ISIMIP3b (1981–2014). P10–P90 across 36 scenario years.

Air temperature | 2026 vs SSP3-7.0

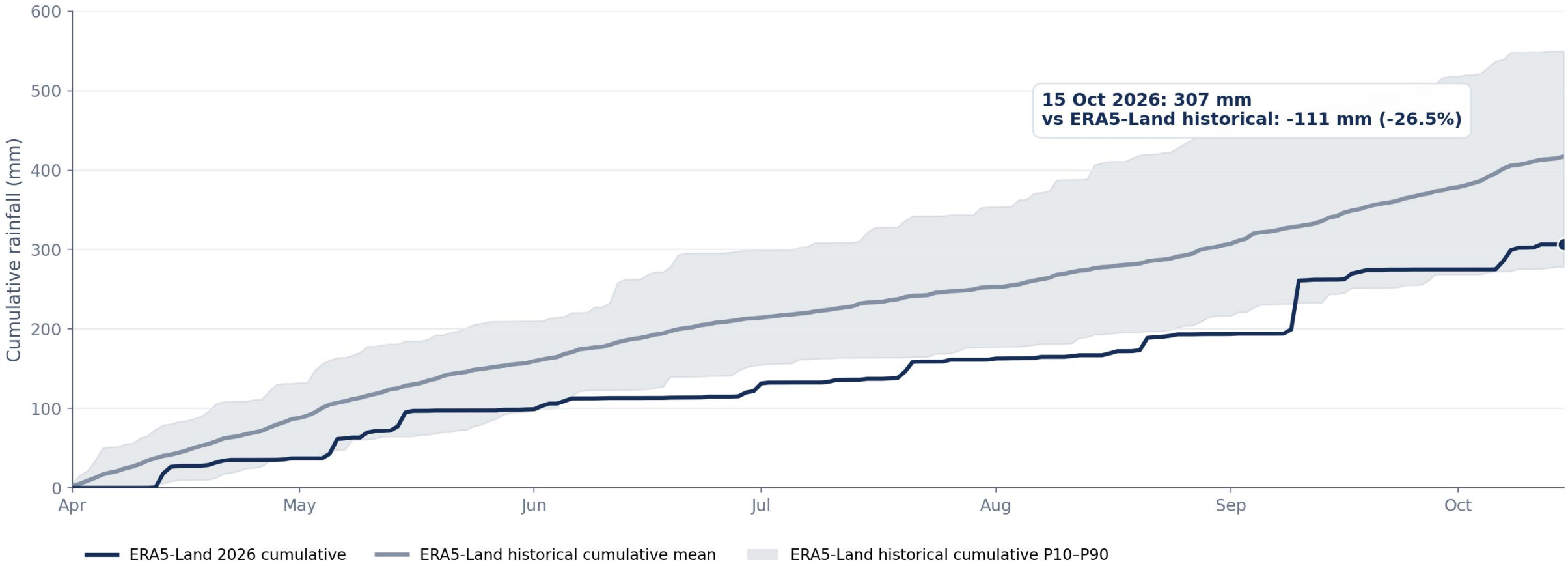
Parma · 1 Apr–15 Oct · ERA5-Land 2026 vs SSP3-7.0 (2015–2050) · monthly bias-adjusted



Monthly mean-temperature offsets: ERA5-Land minus historical ISIMIP3b (1981–2014). P10–P90 across 36 scenario years.

Cumulative rainfall | 2026 vs ERA5-Land historical

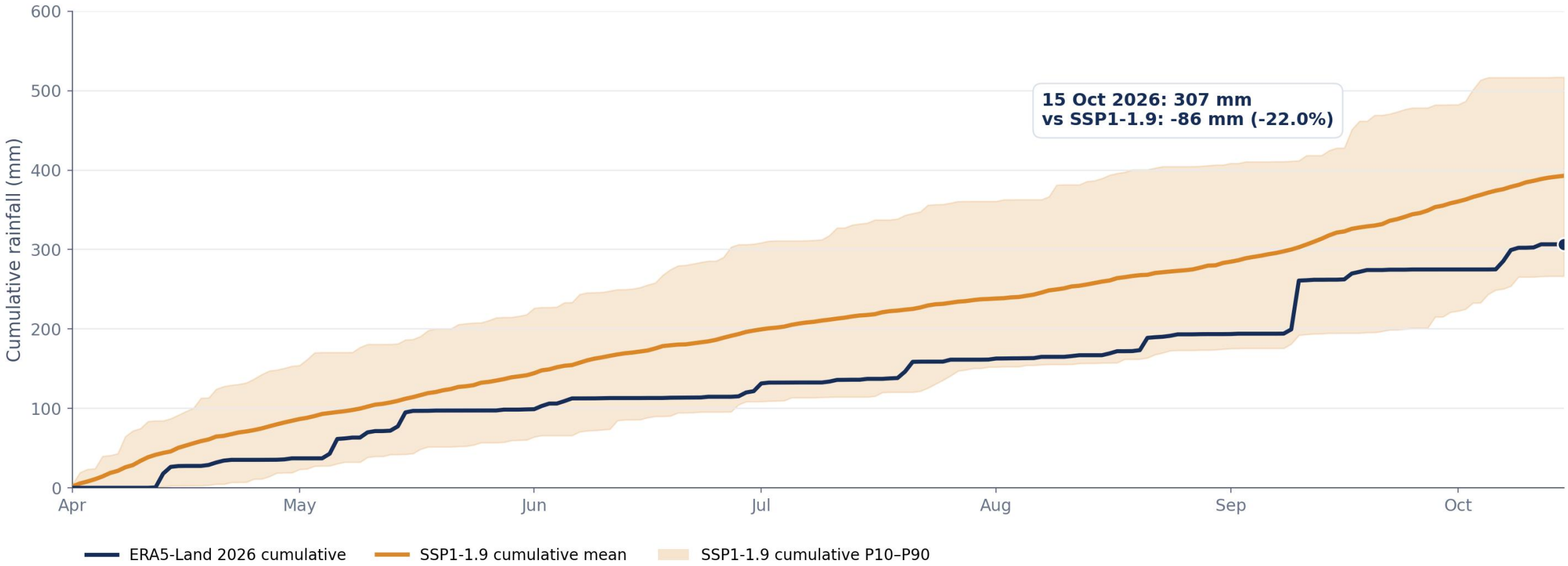
Parma · 1 Apr–15 Oct · cumulative precipitation since 1 Apr · reference 1981–2014



Reference P10–P90 across annual cumulative trajectories (not daily rainfall quantiles). ERA5-Land for both series.

Cumulative rainfall | 2026 vs SSP1-1.9

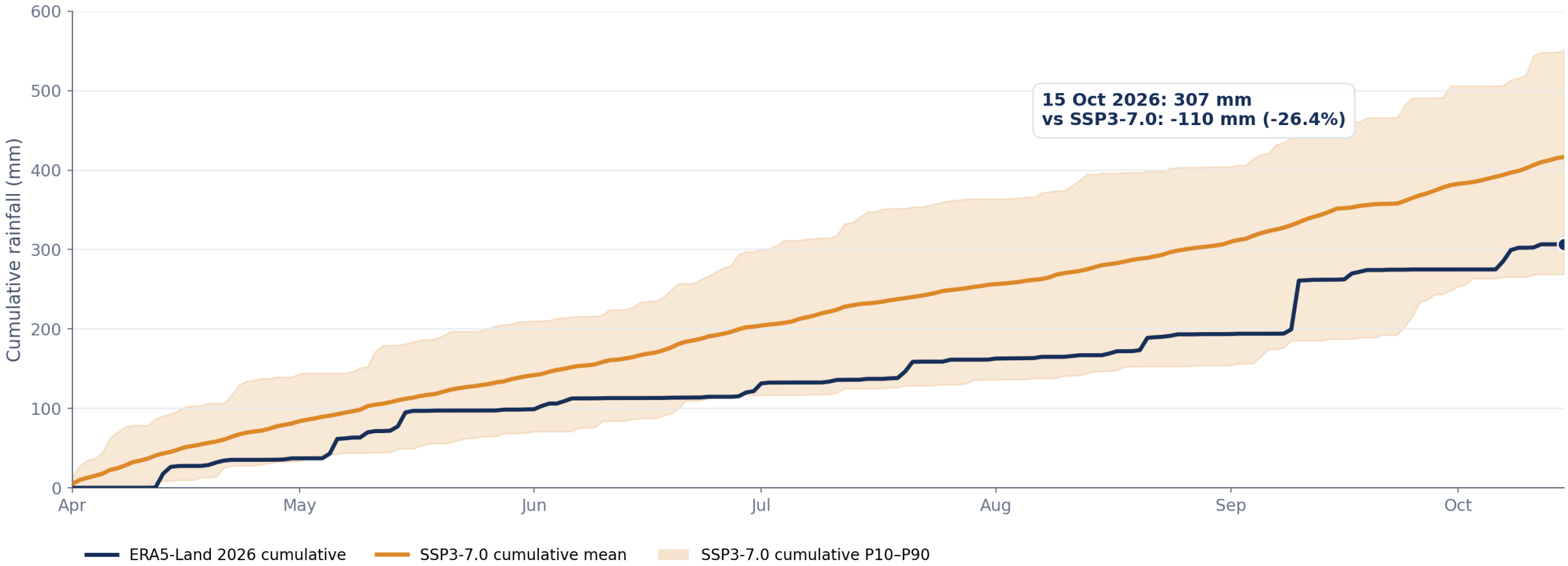
Parma · 1 Apr–15 Oct · cumulative precipitation since 1 Apr · monthly bias-adjusted



Monthly rainfall ratio: ERA5-Land / historical ISIMIP3b (1981–2014). P10–P90 of annual cumulative trajectories.

Cumulative rainfall | 2026 vs SSP3-7.0

Parma · 1 Apr–15 Oct · cumulative precipitation since 1 Apr · monthly bias-adjusted



Monthly rainfall ratio: ERA5-Land / historical ISIMIP3b (1981–2014). P10–P90 of annual cumulative trajectories.

Basilico e clima: il futuro è già nel presente

Gli scenari ci dicono dove stiamo andando: più caldo, notti più calde, meno pioggia e periodi secchi più lunghi.

Ma il 2026 ci dice che per alcuni indicatori ci siamo già: le ondate sopra i 35 °C e le notti tropicali di quest'anno superano quanto i modelli indicano come media per il 2031–2050, e la stagione si chiude con un quarto di pioggia in meno.

Un solo anno non fa una tendenza, ma per caldo e notti tropicali la media dell'ultimo decennio è già sopra quella storica.

Per il basilico questo significa ragionare non più sull'anno medio, ma sugli estremi: è lì che si giocano resa, qualità e difesa, ed è su questi che bisogna costruire monitoraggio e scelte agronomiche.

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