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Corrigendum to "Physical processes leading to extreme day-to-day temperature change – Part 1: Present-day climate" published in Weather Clim. Dynam., 6, 879–899, 2025

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During figure preparation, panel k in Fig. 8 was mistakenly duplicated as panel l. This error does not affect the results, discussion, or conclusions of the paper, and no changes to the text are required. The corrected figure is shown below.

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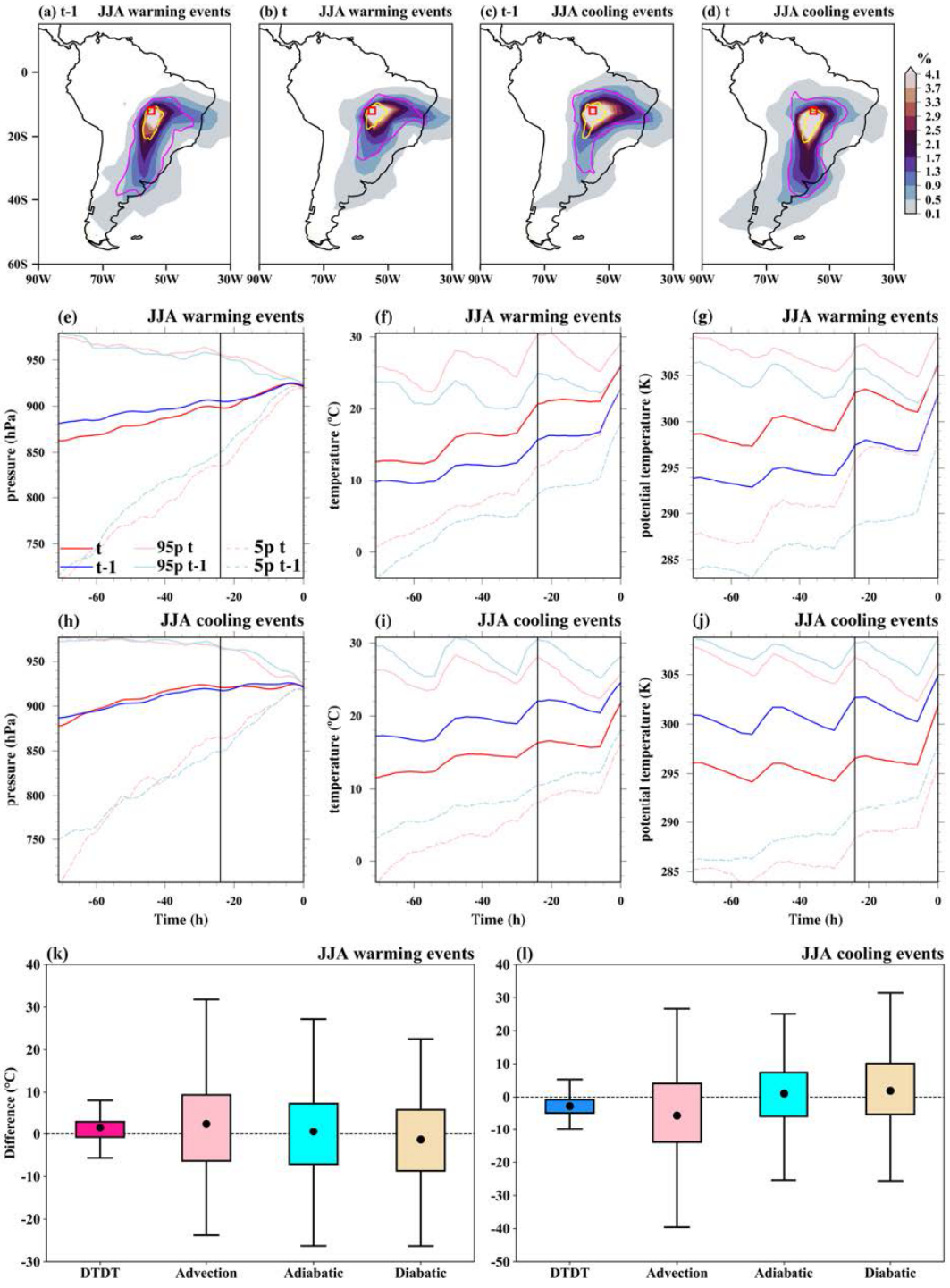

Figure 8. The spatial distribution of trajectories initiated on the previous day ($t-1$) and on the event day (t) for June–August (JJA) warming and cooling events over South America. In the top row, the color shading illustrates the air parcel trajectory density (%) based on the position between -5 and 0 d. The magenta and yellow contours represent 0.5 % particle density fields at -3 and -1 d, respectively. The red box shows the selected grid box over South America. The Lagrangian evolution of distinct physical parameters (pressure, temperature, potential temperature) along the air parcel trajectories for both warming (second row) and cooling events (third row) is presented in panels **(e)**–**(j)**. Panels **(k)** and **(l)** show the contribution of the different physical processes to the genesis of extreme DTDT changes according to Eq. (6), which refers to a 3 d timescale. The box spans the 25th and 75th percentiles of the data; the black dot inside the box gives the mean of the related quantities; and 1.5 times the interquartile range is indicated by the whiskers.