

Supplement

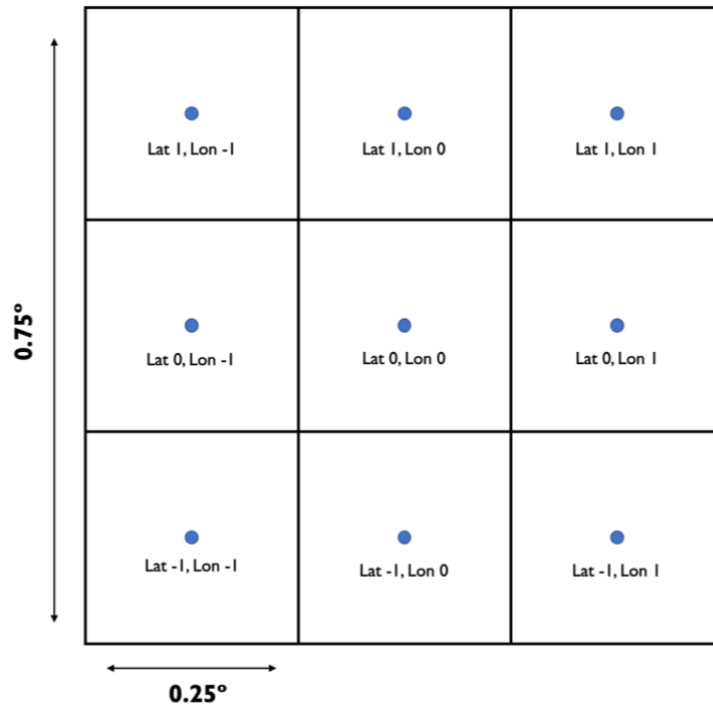


Figure S1. Grid domain used to compute the vertical profiles for soundings and convective environments.

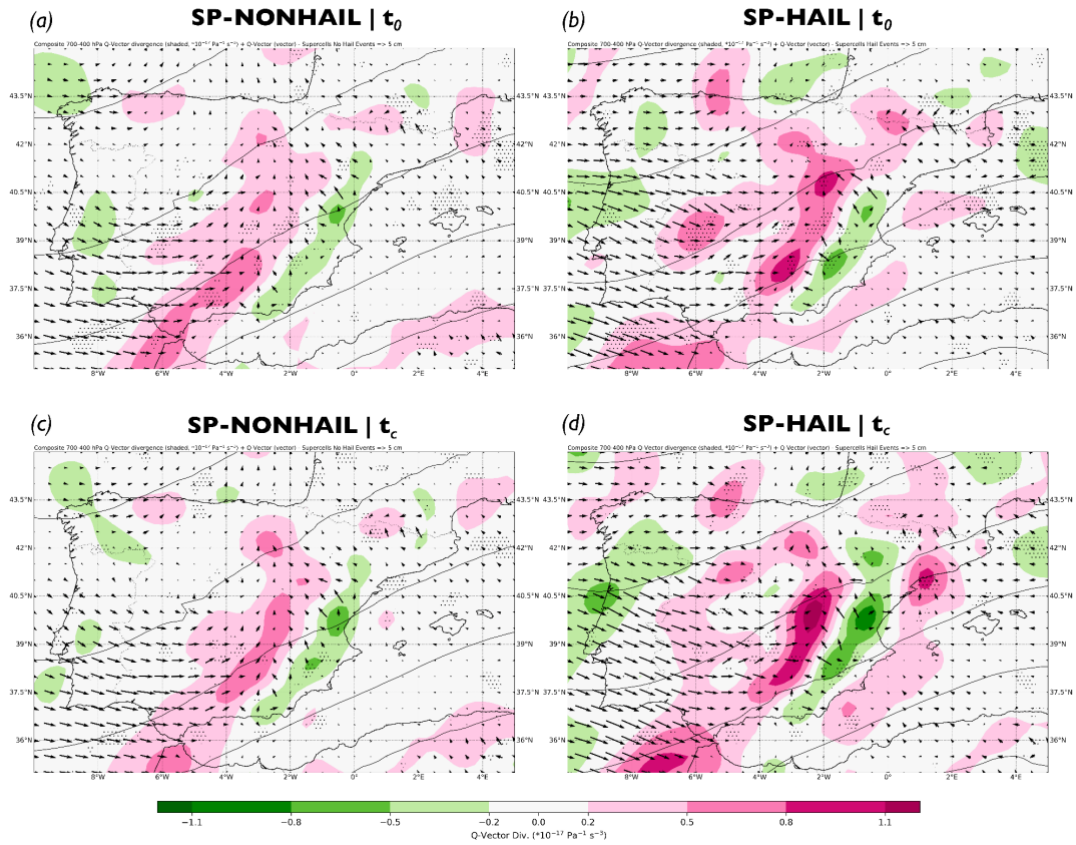


Figure S2. 700-400 hPa Q-vector divergence values (contours, Pa-1 s-3) and convergence of Q-vectors (arrows) composites for (a) SP-NONHAIL at t_0 , (b) SP-HAIL at t_0 , (c) SP-NONHAIL at t_c and (d) SP-HAIL at t_c . Black points denote statistically significant differences (p-value < 0.05) in Q-vector divergence values.

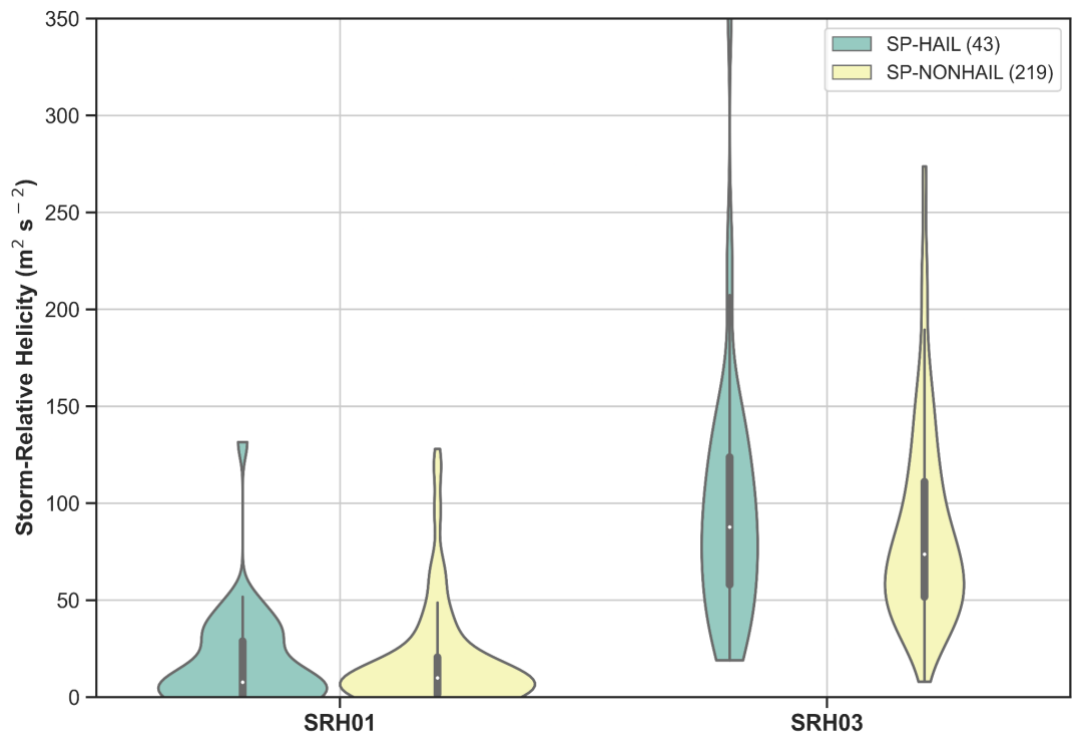


Figure S3. SRH01 and SRH03 distributions and boxplots for SP-HAIL and SP-NONHAIL at t_c . The median is represented as a red point.