

## **Supplementary Material**

# **A Lagrangian analysis of upper-tropospheric anticyclones associated with heat waves in Europe**

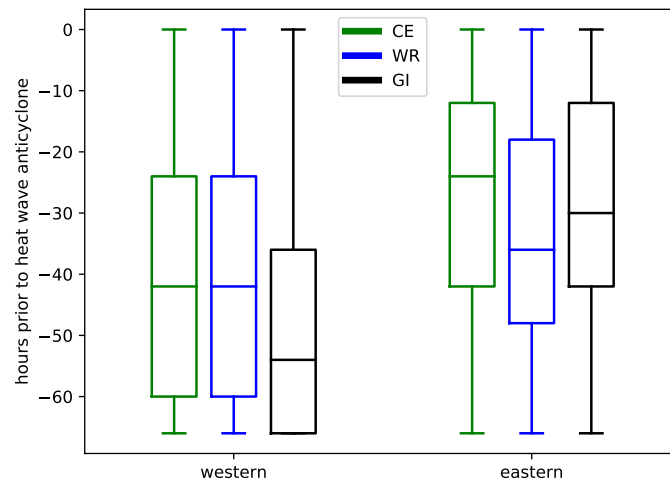
Philipp Zschenderlein<sup>1</sup>, Stephan Pfahl<sup>2</sup>, Heini Wernli<sup>3</sup>, and Andreas H. Fink<sup>1</sup>

<sup>1</sup>Institute of Meteorology and Climate Research, Karlsruher Institut für Technologie, Wolfgang-Gaede-Str.1, 76131 Karlsruhe, Germany

<sup>2</sup>Institute of Meteorology, Freie Universität Berlin, Carl-Heinrich-Becker Weg 6-10, 12165 Berlin, Germany

<sup>3</sup>Institute of Atmospheric and Climate Science, ETH Zürich, Universitätsstr. 16, 8093 Zürich, Switzerland

**Correspondence:** philipp.zschenderlein@kit.edu



**Figure S1.** Timestep of maximum diabatic heating for air parcels in the western and eastern branch during the last three days prior to arrival in heat wave anticyclones over Central Europe (CE), western Russia (WR) and Greece/ Italy (GI). Horizontal lines denote the median, the boxes the interquartile range and the whiskers the minimum/ maximum value.