



Summer hailstorms over Switzerland in 2012 -2014 – observed and simulated.

Andrey Martynov (1), Luca Nisi (1,2), and Olivia Martius (1)

(1) University of Bern, Institute of Geography, Oeschger Centre for Climate Change Research, Bern, Switzerland (andrey.martynov@giub.unibe.ch), (2) Federal Office of Meteorology and Climatology MeteoSwiss, Switzerland

The summer hailstorms over Switzerland were studied for the JJA 2012, 2013 and 2014 seasons. Observation-based data (radar and ground) from MeteoSwiss as well as from the European Severe Weather Database were compared with the results of high-resolution WRF 3.6.1 simulations, driven by the ECMWF analysis. Several microphysics schemes were tested in these simulations, and the SAL method was used for comparing the simulated and observational data in different prevailing weather type conditions. Data from 3 consequent years allowed for revealing and analysing the interannual variability of strong convective events over the Swiss territory.