

## Susanna Mohr<sup>1,2</sup> (mohr@kit.edu),

Manuel Schmidberger<sup>1</sup>, Mathis Tonn<sup>1</sup>, Jannik Wilhelm<sup>1</sup>, Michael Kunz<sup>1,2</sup> <sup>1</sup>Institute of Meteorology and Climate Research (IMK-TRO), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

<sup>2</sup>Center for Disaster Management and Risk Reduction Technology (CEDIM), KIT, Germany

## Backstory



technique. Wea. Forecasting, 15, 61–79, doi: 10.1175/1520-0434(2000)015<0061:PSMUAN>2.0.CO:2

Bunkers, M.J., Klimowski, B.A., Zeitler, J.W., Thompson, R.L., Weisman, M.L. (2000): Predicting supercell motion using a new hodograph tr Handwerker, J. (2002): Cell tracking with TRACE3D – A new algorithm. Atmos. Res., 61, 15–34, doi: 10.1016/S0169-501 8095(01)00100-4.

Henestebeck, T., Wapler, K., Heizenreder, D., Joe, P. (2018): Radar network-based detection of mesocyclones at the German Weather Service, J. Atmos. Ocean. Technol., 35, 299-321, doi: 10.1175/JTECH-D-16-0230.1.

Junghanel, T., Brendel, C., Winterrath, T., Walter, A. (2015): Towards a radar-and observation-based hall climatology for Germany. Meteorol. 2, 2015, 25, 435-445, doi: 10.1127/metz/2016/0734 Punge, H.J., Bedka, K.M., Kunz, M., Werner, A. (2014): A new physically based stochastic event catalog for hall in Europe. Nat. Hazards, 73, 1625-1645, doi: 10.1007/s11069-014-1161-0.

Punge, H.J., Bedka, K.M., Kunz, M., Reinbold, A. (2017): Hail frequency estimation across Europe based on a combination of overshooting top detections and the ERA-INTERIM reanalysis, Atmos. Re., 198,34–43, doi: 10.1016/j.atmosres.2017.07.025.

Puskeller, M., Kunz, M. Schmidberger, M. (2016): Hail statistics for Germany derived from single-colarization radar data. Atmos. Res., 178-179, 459-470. doi: 10.1016/i.atmosres.2016.04.014.

Karlsruhe Institute of Technolog

rosketer, m., valuz, m. schimaleeger, m. (2012). naii saatsus toi Germany deniver holl salgepolarization radai Gala. Auros. Acs., 176/17, 499/07.00. 10.1010/j.aurose.2010/04/14. Schmidberger, M. (2013). Hadgefichkin jo Deltaperiskin to Deschand basierend auf einer Kombination von Radardaten und Versicherungsdaten. Phd thesis, Wissenschaftliche Berichte des Instituts für Meteorologie und Klimaforschung des Karlsruher Instituts für Technologie , Vol. 78, KIT Scientific Publishing, Karlsruhe, Germany, doi: 10.5445/(KSP/1000086012 , Tonn, M., Wilhelm, J., Kunz, M.: Evaluating Bunkers' storm motion of hali-producing supercells and their storm-relative helicity in Germany. *Meteorol.* Z. (in review).

KIT - The Research University in the Helmholtz Association