

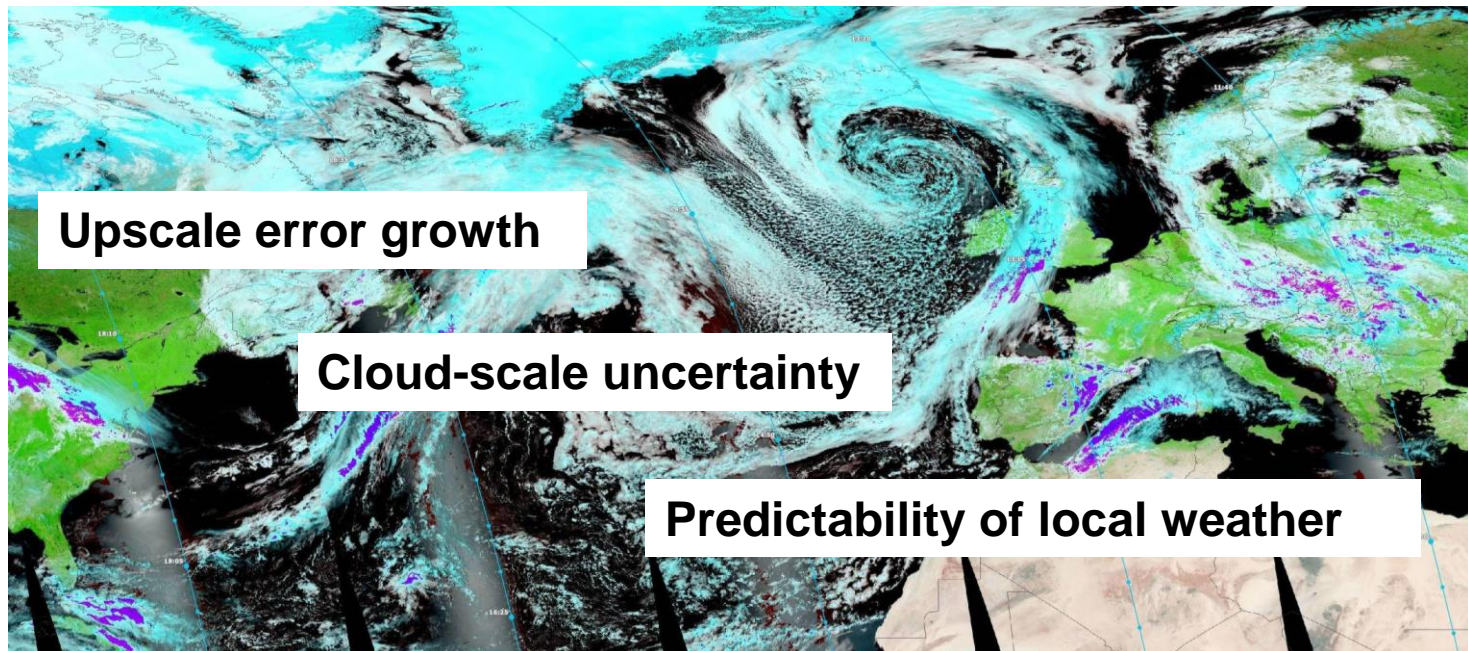


WAVES TO WEATHER

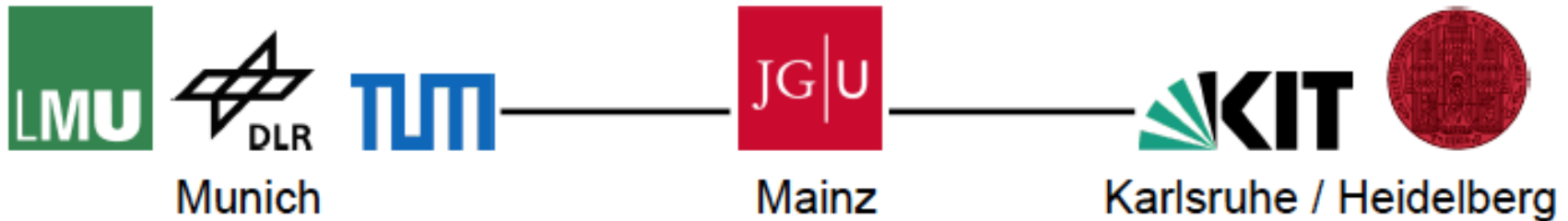
Transregional Collaborative Research Center

funded by **DFG** Deutsche
Forschungsgemeinschaft

*“The goal of Waves to Weather is to identify the **limits of predictability** of weather by explicit understanding of the dynamical mechanisms through which errors evolve and grow.”*



Structure



- Size: 19 research projects (23 PhD, 7 Postdocs, 23 PIs)
- Budget: ~€2.5M p.a. from **DFG** Deutsche Forschungsgemeinschaft
- Duration: 2015–2027(!) (subject to 2 reviews)
- Builds on DFG PANDOWAE project
- Close ties to



Slide by P. Knippertz

C5 – Forecast uncertainty for peak surface gusts associated with European cold-season cyclones

Revisiting the synoptic-scale predictability of severe European winter storms using ECMWF ensemble reforecasts

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RESEARCH ARTICLE

Quarterly Journal of the
Royal Meteorological Society

Forecasting wind gusts in winter storms using a calibrated convection-permitting ensemble

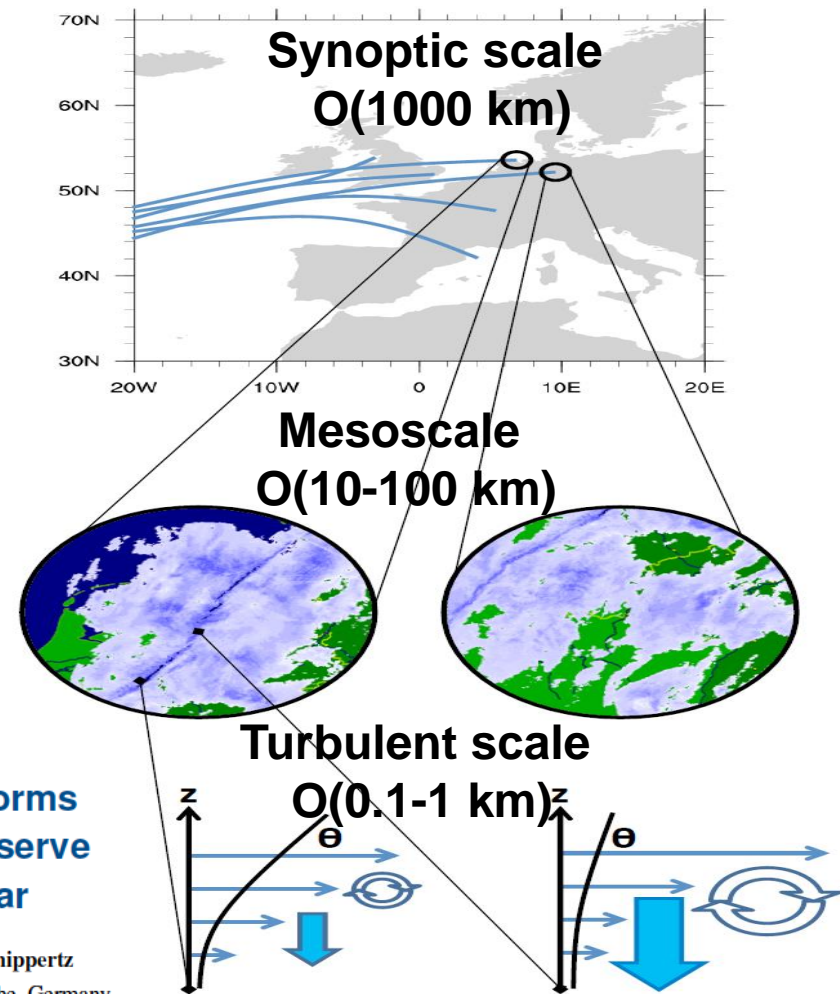
Florian Pantillon¹ | Sebastian Lerch^{2,3} | Peter Knippertz¹ | Ulrich Corsmeier¹

Overview and first results of the Wind and Storms Experiment (WASTEX): a field campaign to observe the formation of gusts using a Doppler lidar

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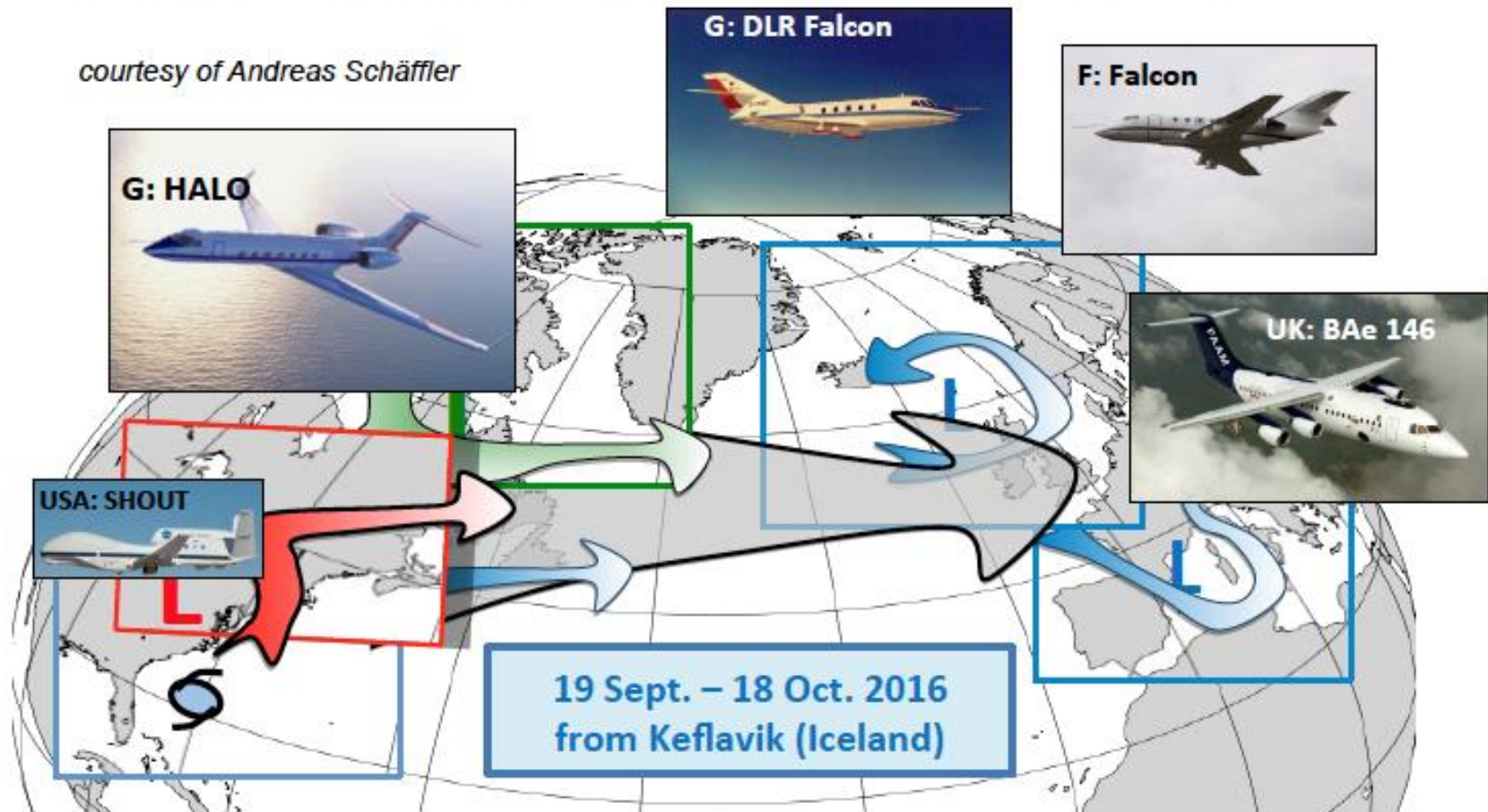
Received: 7 February 2018 – Revised: 3 May 2018 – Accepted: 18 May 2018 – Published: 25 May 2018



A3 – Model error and uncertainty for midlatitude cyclones analyzed using campaign data

North Atlantic Waveguide and Downstream impact Experiment

courtesy of Andreas Schäffler



<http://www.wavestoweather.de>

