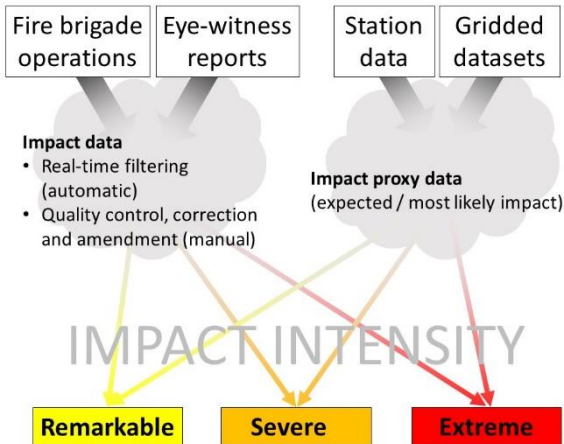# Pistotnik et al.: Verification of impact-based weather warnings using real-time fire brigade and eye-witness data

1. Motivation

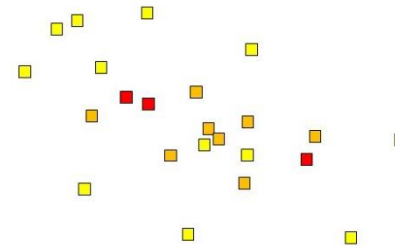Objective verification of impact-based warnings

2. Impact intensity

Five warning parameters

- Damage criteria (qualitative)
- Meteorological thresholds used as proxies (quantitative)
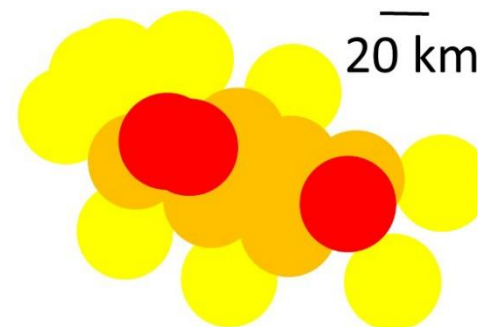

4. Definition of warning colors

Based on impact intensity and coverage

modified from (WMO, 2015)

3. Impact coverage

Envelope of 20 km "radii of influence"

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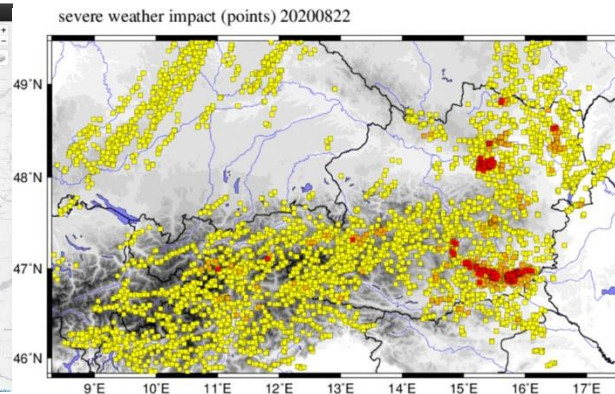Meteorologie und
Geodynamik

Pistotnik et al.: Verification of impact-based weather warnings using real-time fire brigade and eye-witness data
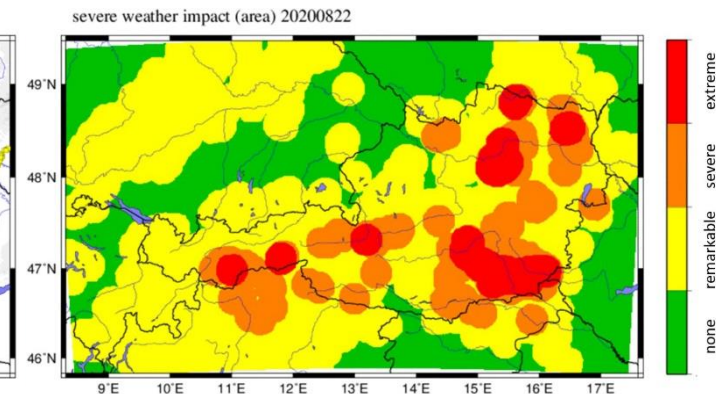
5. Showcase: 22 Aug 2020 thunderstorms
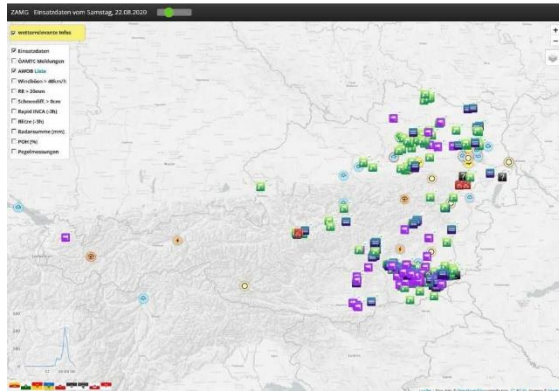
Raw data after filtering

Impact points
after quality control

Impact areas
(envelope of 20 km radii)

6. Further plans and goals

- Individual and bulk verification of severe weather warnings
- Enhanced communication to action forces and general public
- Calibration of warnings, related forecaster training
- Synchronization with other EU countries within METEOALARM

Your experiences and ideas? => georg.pistotnik@zamg.ac.at

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