ALARO-0 experience in Belgium

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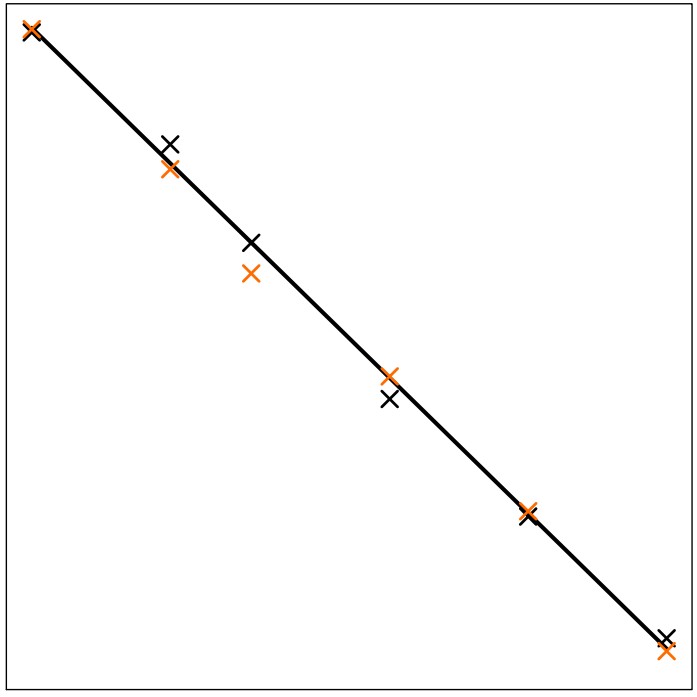
Outline

1. Subdaily precip ALARO-0

2.

Scaling properties



- So: $(d) = d$

Pukkelpopstorm *Introduction*

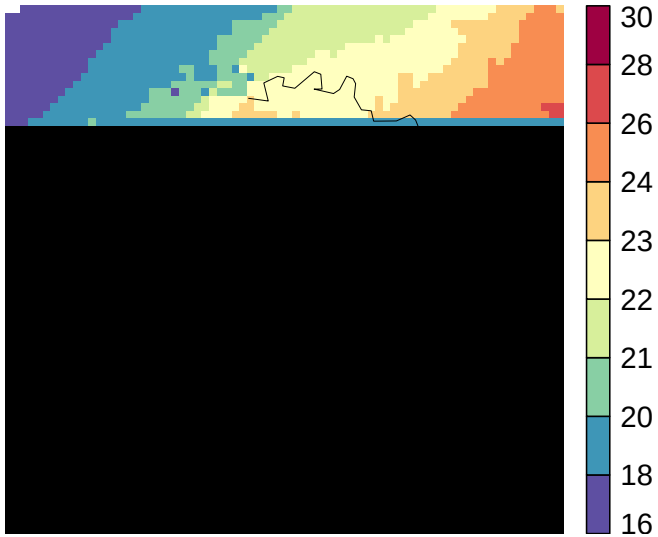
- What?
  A severe convective storm which produced multiple downbursts (100 m) and severe wind gusts
- Research question:
  Can we predict these downbursts?
- Method:
  Alaro at 4 km grid spacing and a “convection resolving” run at

Pukkelpopstorm

Cold pool: Observations

Pukkelpopstorm

Cold pool: orig. tunings



Pukkelpopstorm *Downburst proxy*

Pukkelpopstorm

Cold pool and RIJ

Pukkelpopstorm

Cold pool and RIJ

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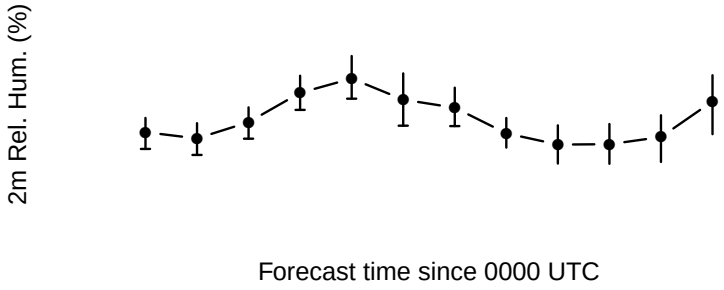
Experiences with cy38

BIAS and RMSE August 2011



Experiences with cy38

BIAS and RMSE April 2014

Courtesy of A. Deckmyn
QXRTGH = 3.5 instead of 1.6
RMULACVG = -25. instead of 15.TGH = 3.5 instead of 1.6