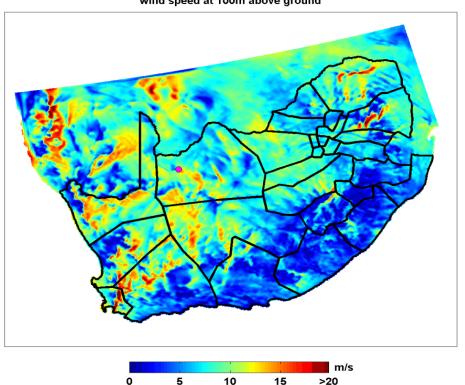
A single wind farm changes its power output quickly

Simulated wind-speed profile and wind power output for 14 January 2012

14 Jan 2012 23:45 SAST

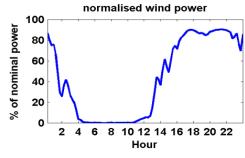


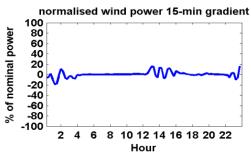






Aggregation level: 0 Number of wind pixel: 1















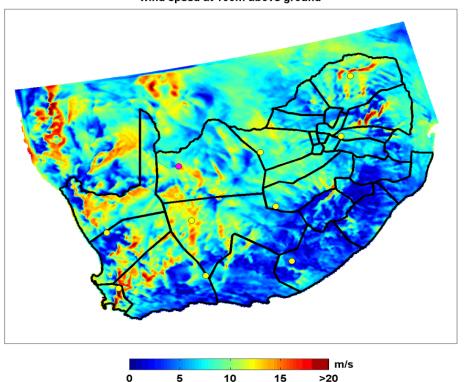


Aggregating just 10 wind farms' output already reduces short-term fluctuations

Simulated wind-speed profile and wind power output for 14 January 2012

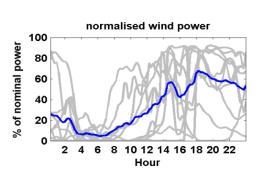
14 Jan 2012 23:45 SAST





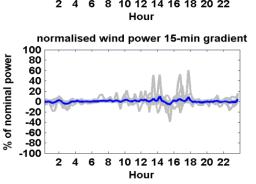


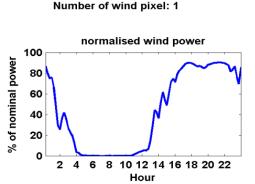




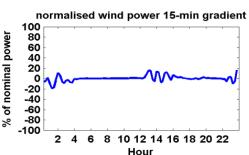
Aggregation level: 1

Number of wind pixel: 10





Aggregation level: 0



REV₁









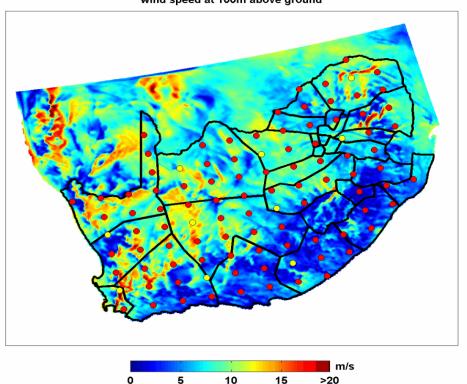


Aggregating 100 wind farms: 15-min gradients almost zero

Simulated wind-speed profile and wind power output for 14 January 2012

14 Jan 2012 23:45 SAST

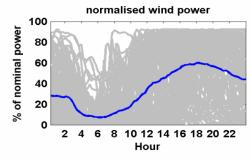


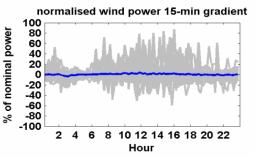




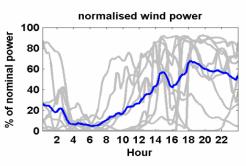


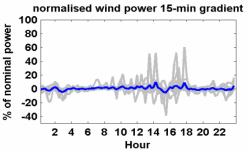
Aggregation level: 2
Number of wind pixel: 100





Aggregation level: 1
Number of wind pixel: 10















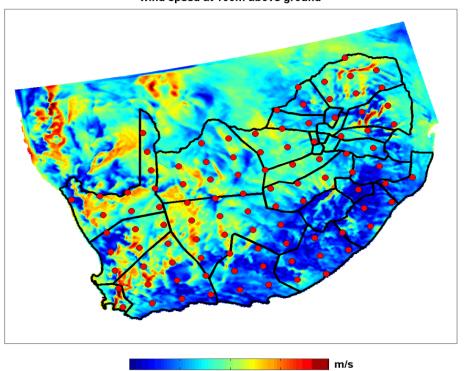


Aggregation across entire country: wind output very smooth

Simulated wind-speed profile and wind power output for 14 January 2012

14 Jan 2012 23:45 SAST



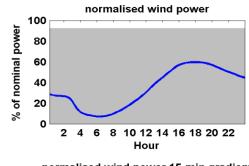


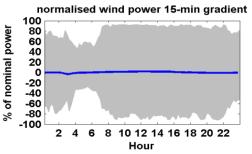
10



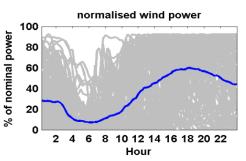


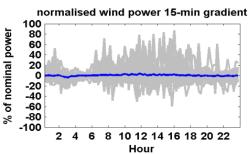
Aggregation level: 3 Number of wind pixel: 43113





Aggregation level: 2 Number of wind pixel: 100











15

>20





