

# Gust charts

## Description

### Title

- ▶ content
- ▶ date and time of validity
- ▶ base date and time of model run

### Content

Shown is the distribution of peak gusts at 10 m above ground in knots. These values can significantly differ from the distribution of the mean wind speed. The computation works well for normal weather situations and even gale-like conditions (so-called thermally and dynamically induced gusts).

Gusts originating from thunderstorm or squall-lines however are **not** shown here, because up to now the computations give more or less unprecise estimates.

The example given here clearly shows the strong gusts during a mistral event in southern France.

### Legend

The legend shows the colors of the peak gusts in knots [kt]. Gusts below 12 kt are not shown.

### Base of data

- ▶ Regional numerical weather simulation model, operated at our weather computer center
- ▶ Hourly forecast values
- ▶ Highest actuality by 6-hourly update frequency

