

# LSPM

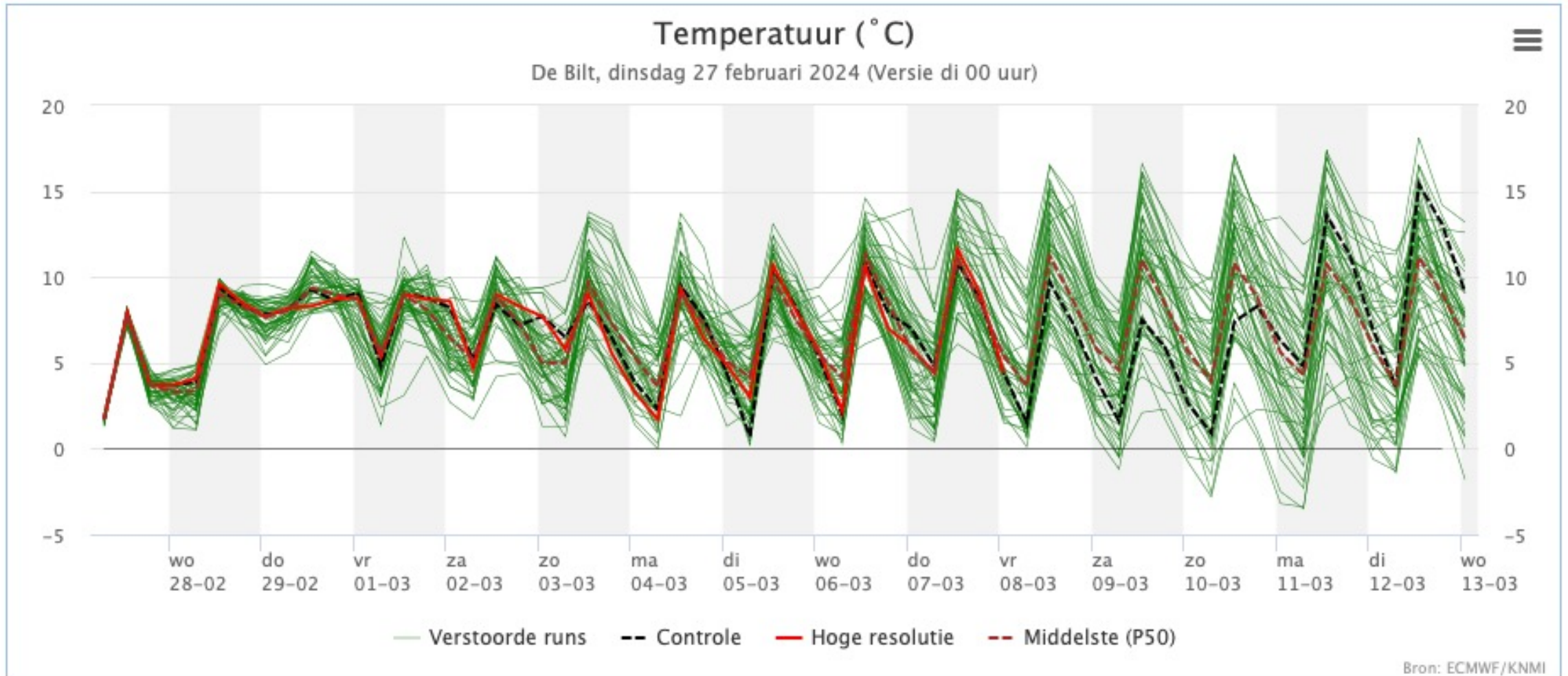
## Question-Based Lecture

Week 4

# Week 4: Stochastic models

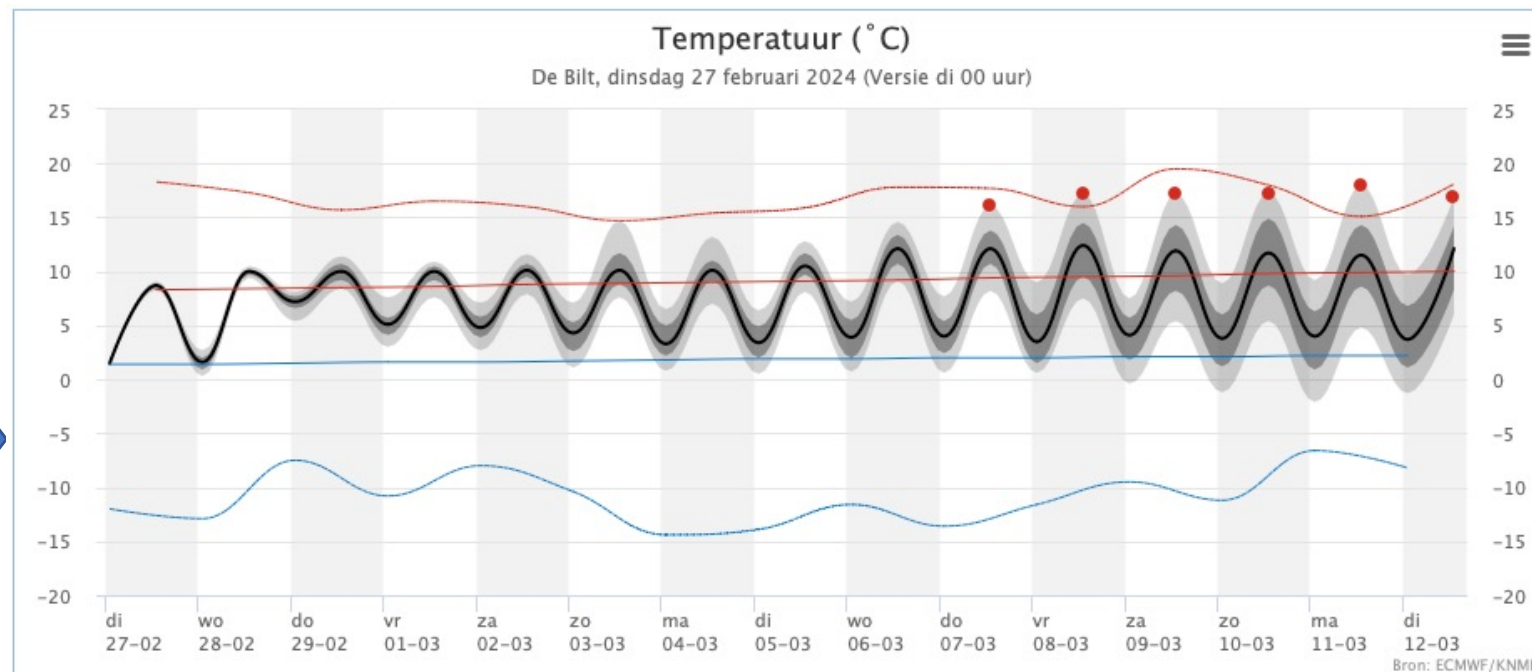
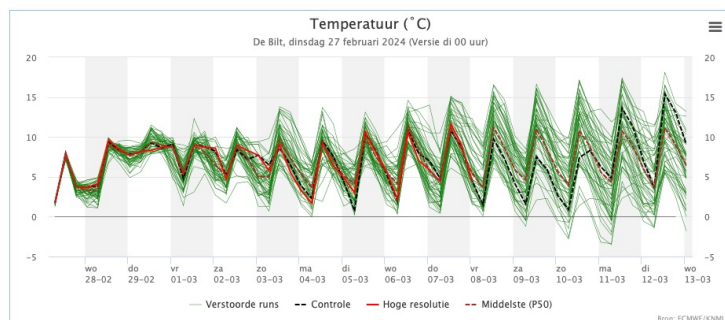
Questions?

# Monte Carlo simulation example



<https://www.knmi.nl/nederland-nu/weer/waarschuwingen-en-verwachtingen/weer-en-klimaatpluim> (from ECMWF)

# Confidence intervals example



## Weersverwachting

- ✓ — Verwachting
- ✓ ■ 50% band
- ✓ ■ 90% band
- ✓ ● Extreem warme verwachting

[Meer informatie](#)

## Wat is normaal voor de tijd van het jaar?

- ✓ ..... Hoogst gemeten maximum
- ✓ ..... Laagst gemeten minimum
- ✓ — Gemiddelde maximum
- ✓ — Gemiddelde minimum

[Meer informatie](#)

<https://www.knmi.nl/nederland-nu/weer/waarschuwingen-en-verwachtingen/weer-en-klimaatpluim>

# Another example: European Flood Aware System (EFAS)

PCRaster based model

Online at <https://www.efas.eu/en>

# Week 4 – Short Paper

Hand-in this week (Friday)

# Week 4 – Computer Labs

- Stochastic Modelling

Try to finish this week

# Week 5 – Agent-Based modelling

Section 2.5 from the study guide

Literature

eLecture



# Week 5 – Labs: Agent Based Modelling

- We use <https://campo.computationalgeography.org>
- Write down answers to questions -> upload to Blackboard
- If you did not install QGIS with Conda install from <https://qgis.org>
- Start next week with Agent-based modelling (finish other things after next week)