



## **Weather report, week 37**

***Copenhagen, Denmark  
September 2023***

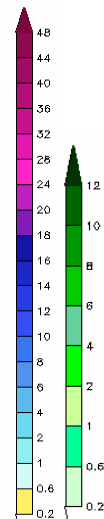
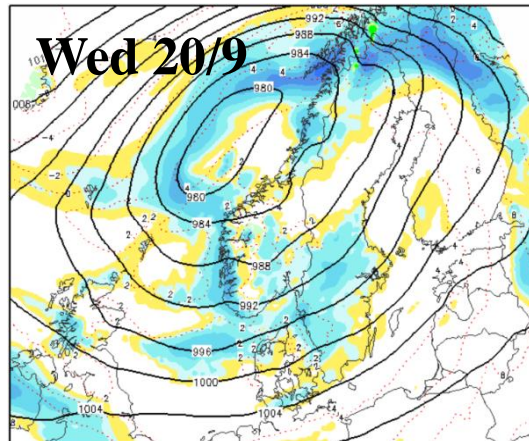
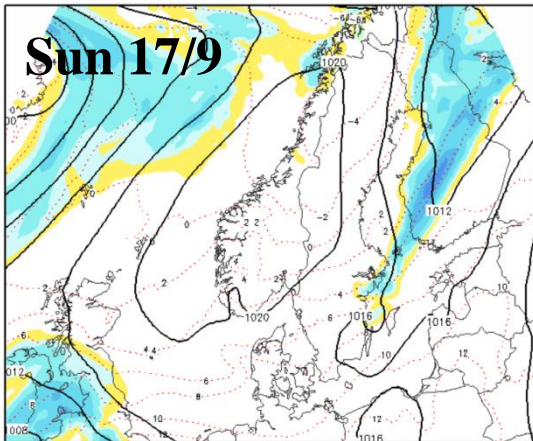
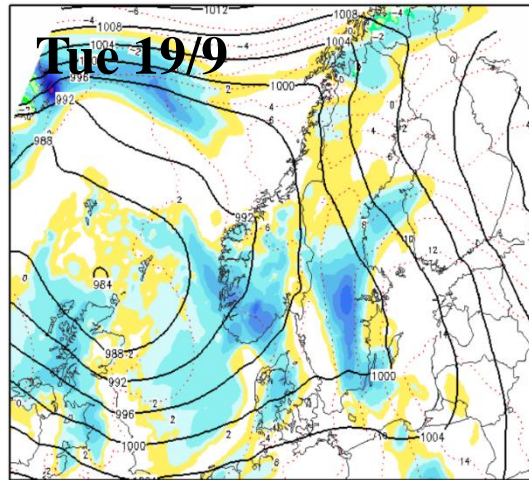
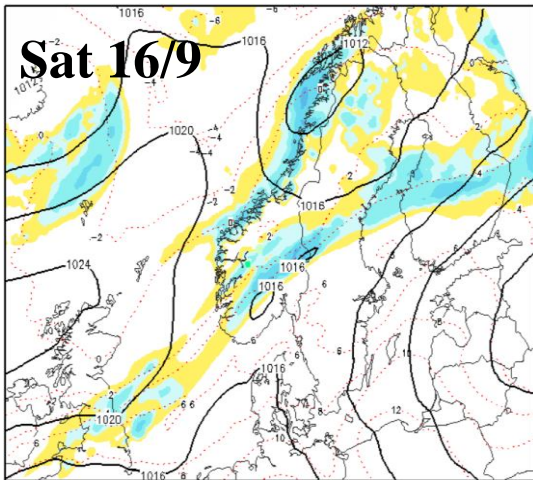
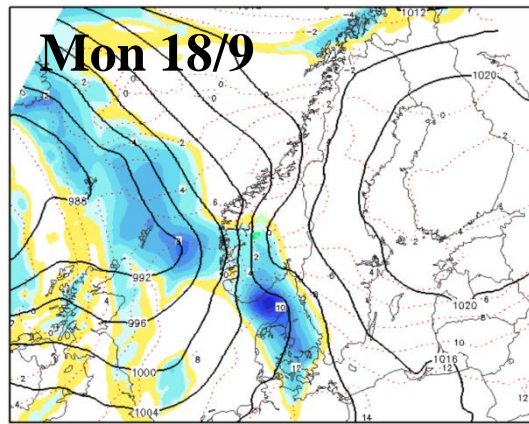
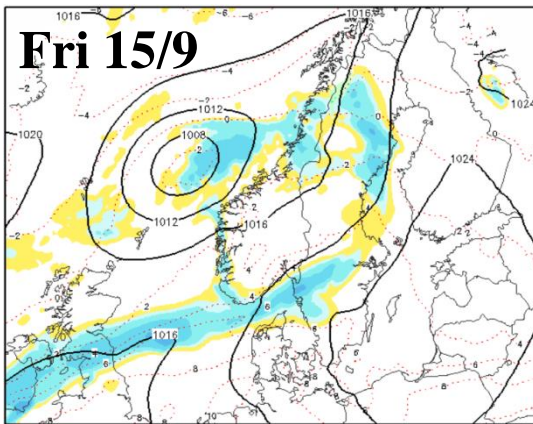
# Precipitation for the next 7 days

## Development

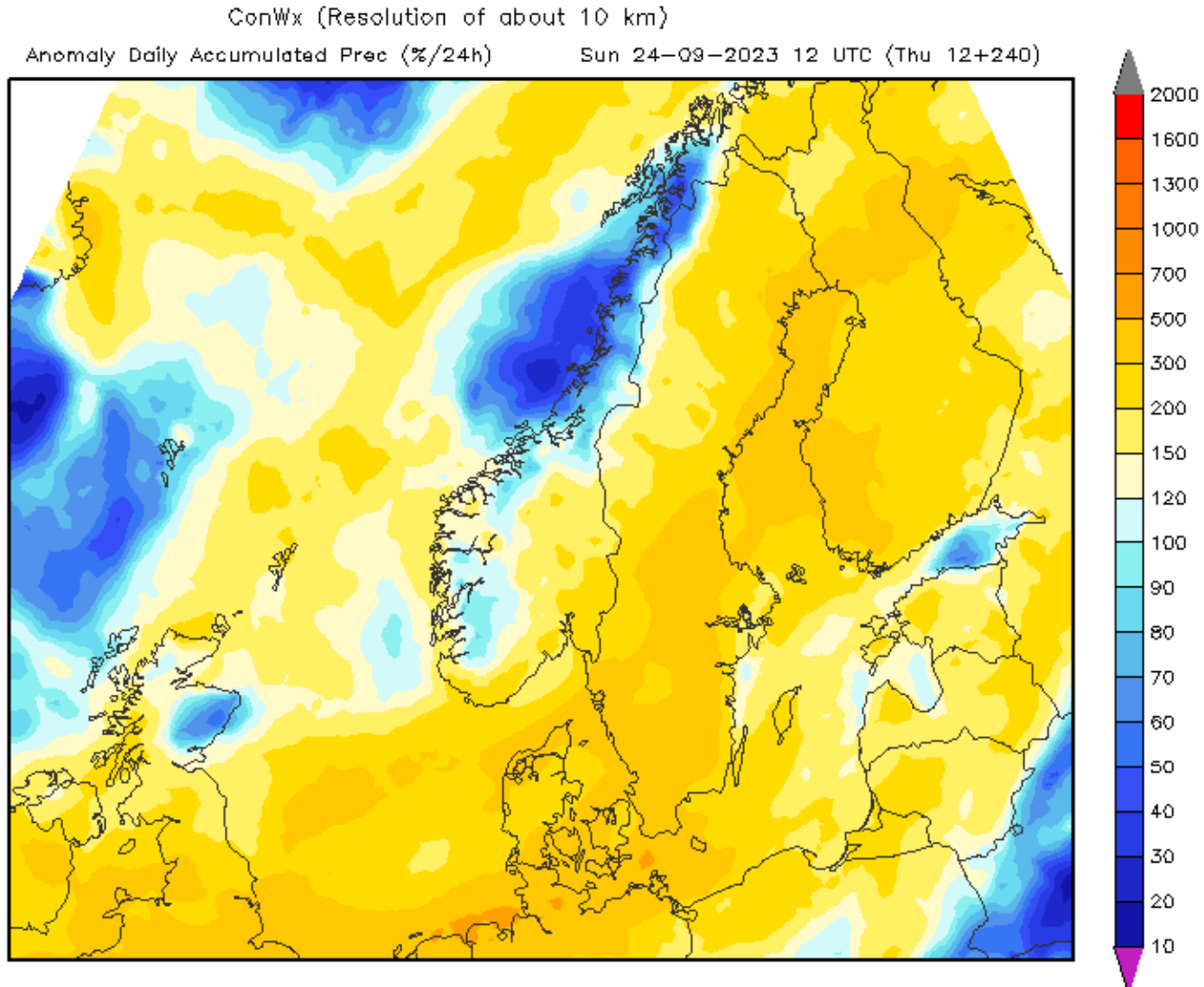
Light rain in Scandinavia during 15-16/9. Clear skies and a cessation of precipitation during 17/9 due to a high pressure field from the west. High pressure will move eastward during 18/9, while a strong low pressure field from the west will bring showers to the south of Sweden and Denmark. This low pressure field will remain over Scandinavia during next days and will give more precipitation across Scandinavia. Rising water levels in hydro reservoirs in Norway and Sweden.

## Uncertainty / alternatives

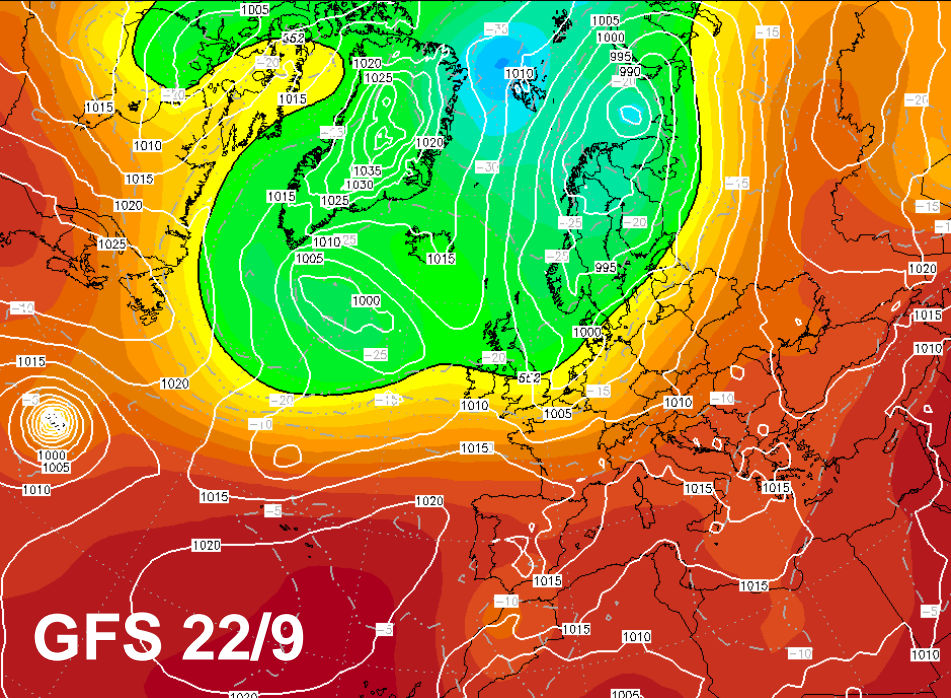
Small amount of snow on the south of Norway during 21/9.



# Precipitation anomaly, next 10 days



*Wetter across Scandinavia, except along the coast of Norway.  
(deviation from 15 years normal)*



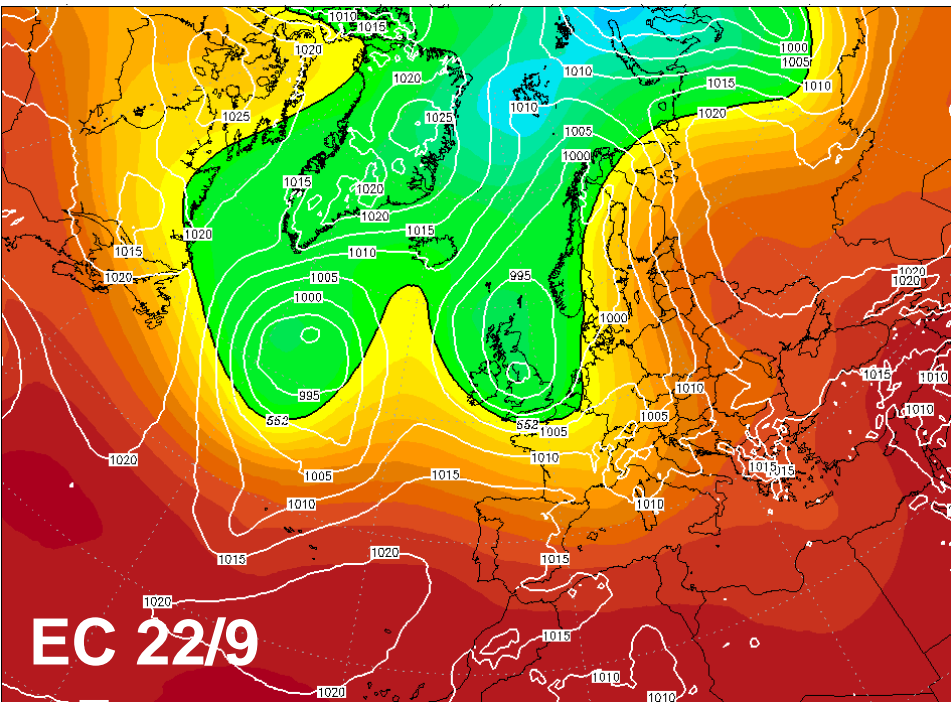
## GFS and EC main runs

### Development

Low pressure field over western part of Scandinavia, while eastern part is under high pressure based on the EC forecast. GFS forecast gives low pressure field across Scandinavia.

### Differences and similarities

GFS and EC agree until 20/9. EC low pressure field over UK is stronger, while GFS low pressure field on the north of Scandinavia is more pronounced.



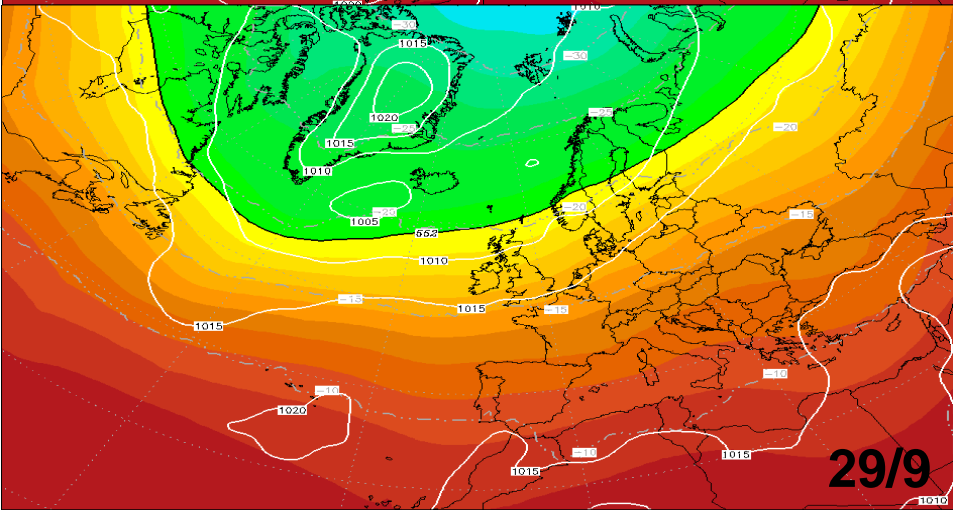
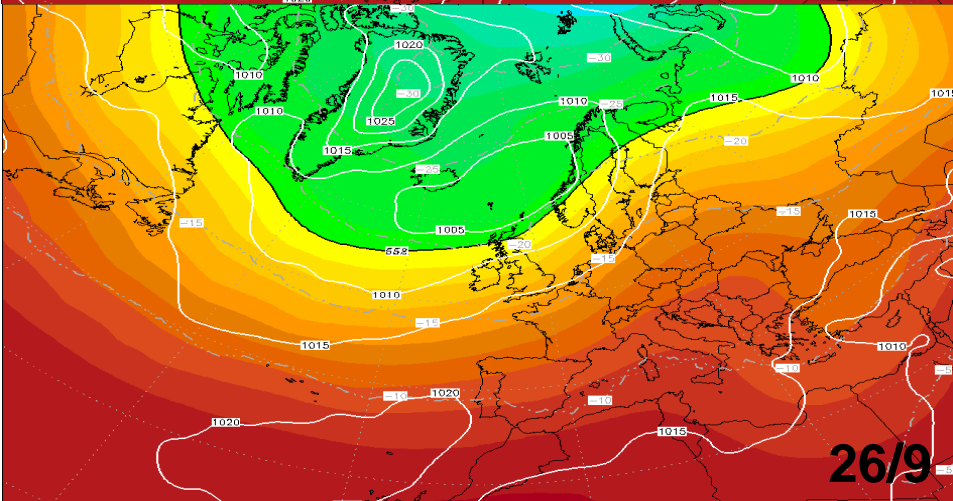
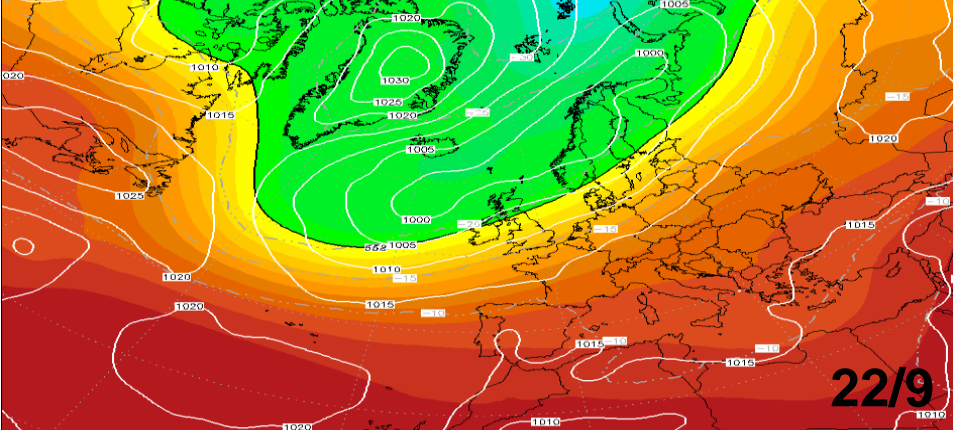
# GFS ensemble

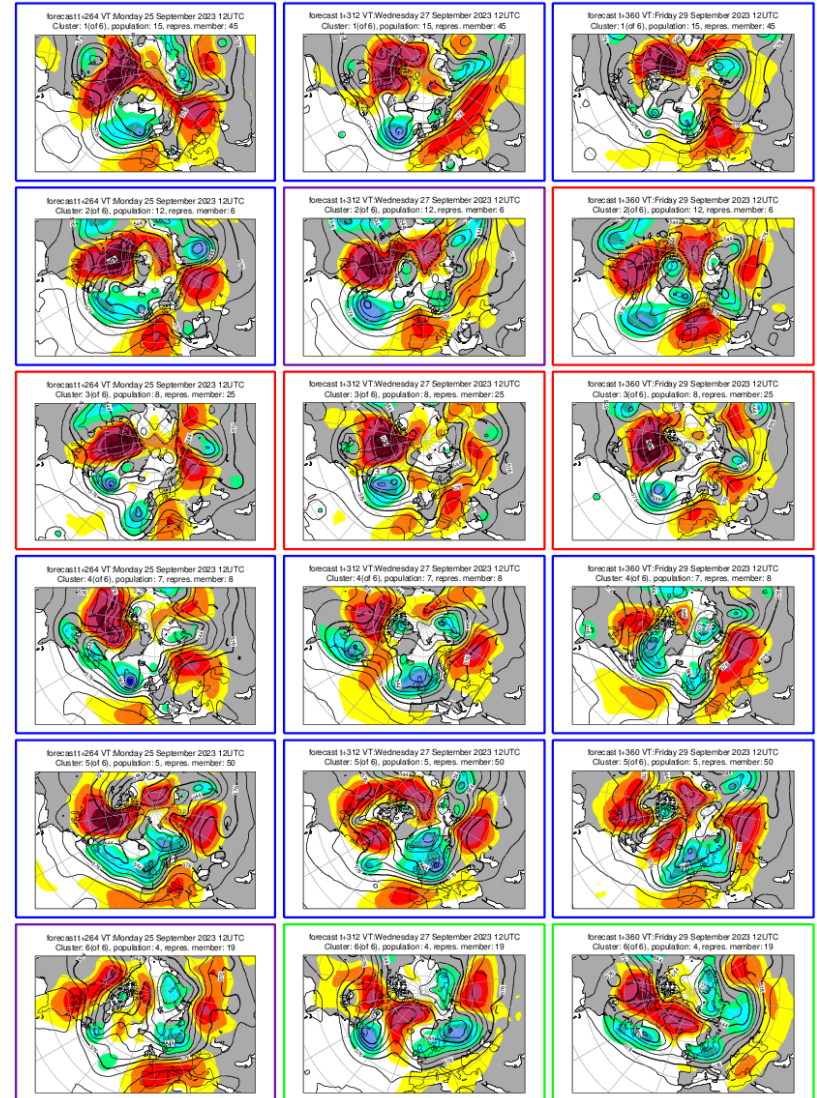
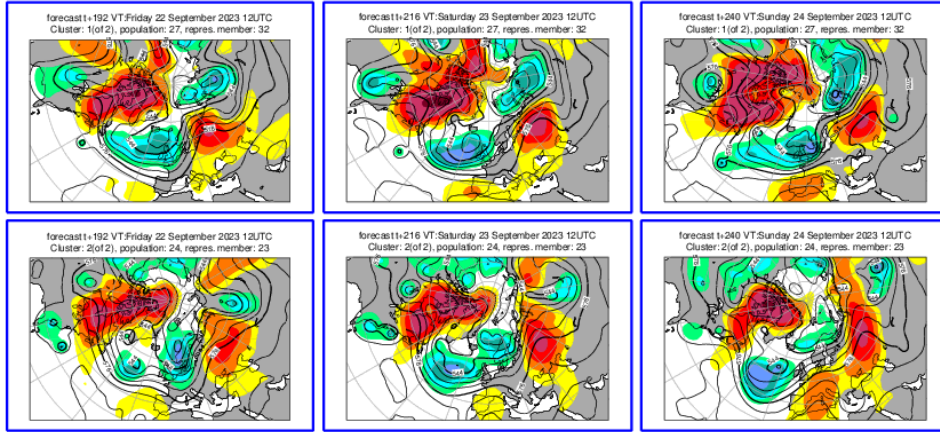
## Development

Without much changes during this period.  
Low pressure field over northern Scandinavia  
and high pressure field on the south.

## Precipitation

Precipitation across Scandinavia during first  
part of period, later more precipitation on the  
north.





# EC ensemble

## Development

From 22-24/9 low pressure field on the west and high pressure field on the east of Scandinavia. From 25/9 more uncertainties, high pressure on the east is getting stronger and low pressure on the west is weakening

**Probabilities for the whole period in EC eps:** Over normal: 25%, normal 60 %, under normal 15%

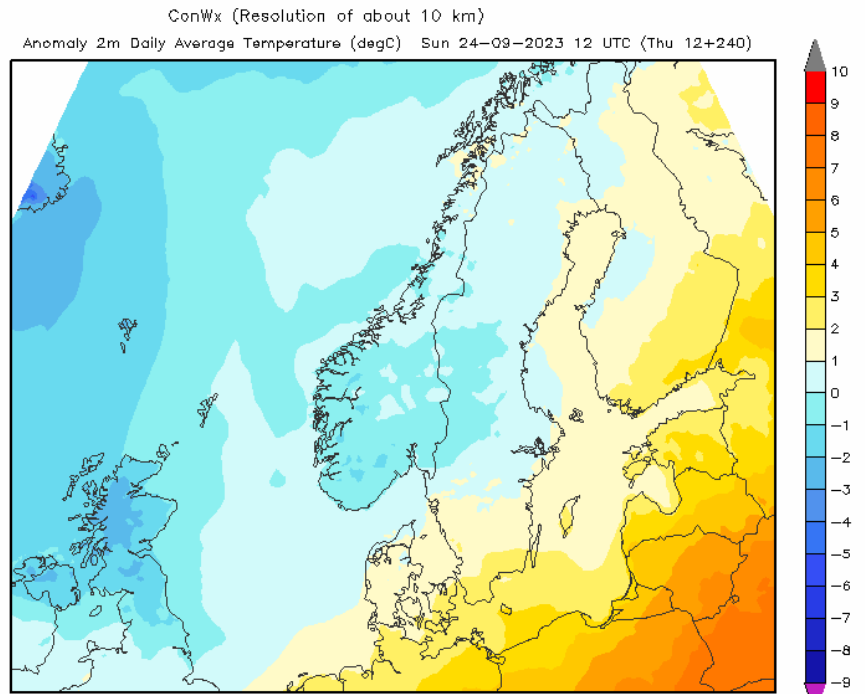
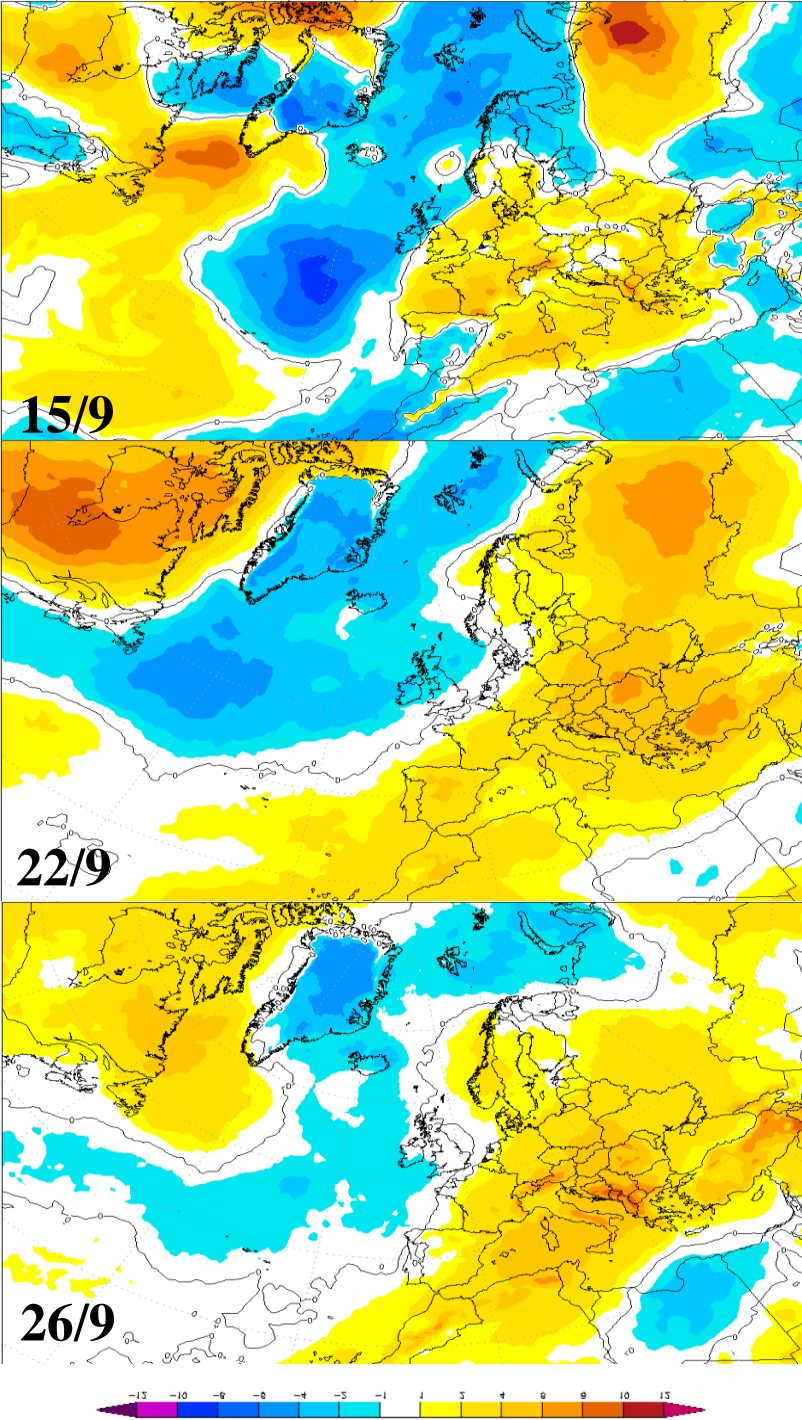
# Temperature

## Development

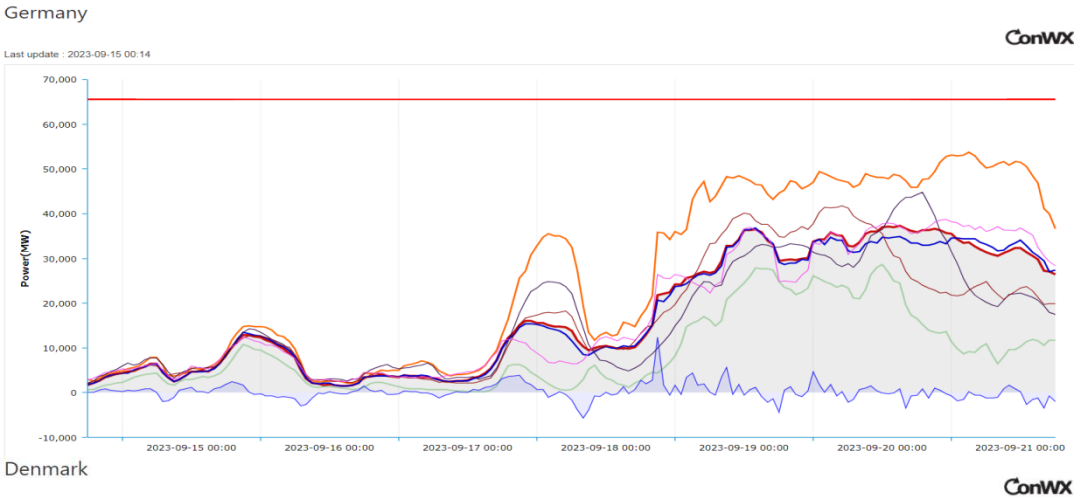
Cooler in northern and western Scandinavia, until 18/9 when a southerly flow will bring warmer air across Scandinavia. 20/9 in the west temperature around normal. From 25/9 warmer across Scandinavia.

## Uncertainty

Temperatures 6-8 degrees below average in southern Scandinavia around 25-26/9



*Temperature anomaly over the next 10 days compared to 15 years average*

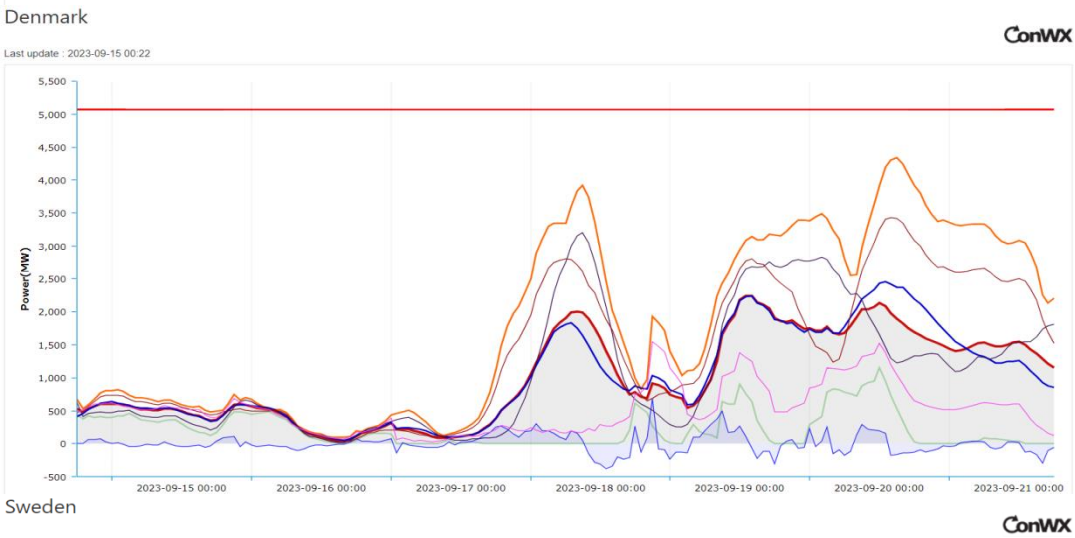


# Wind power

## Development

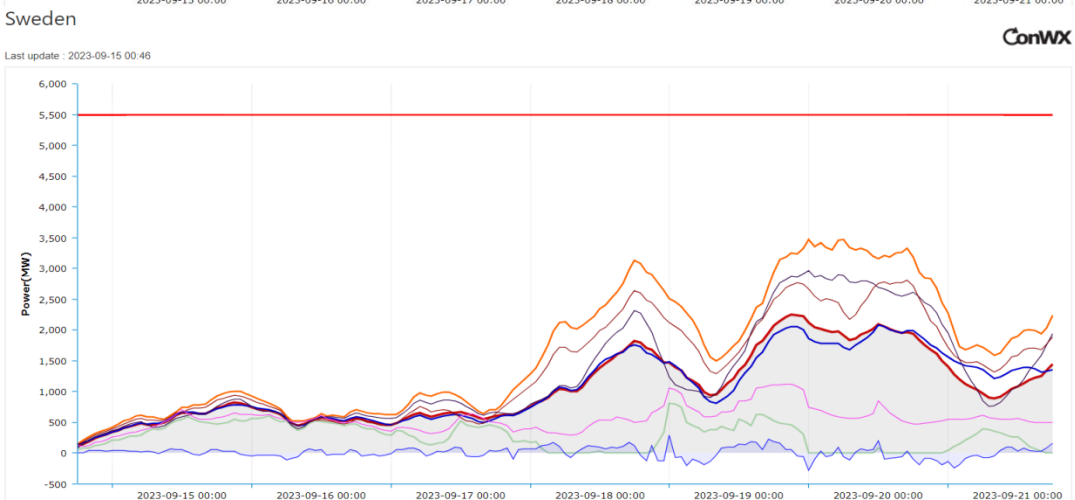
From 15/9 until 18/9 production below normal. From 18/9 production is increasing both in Germany, Denmark and Sweden.

In Denmark short-term decrement in production during night 18-19/9. Production above normal in Germany from 19/9.



## Uncertainty / alternatives

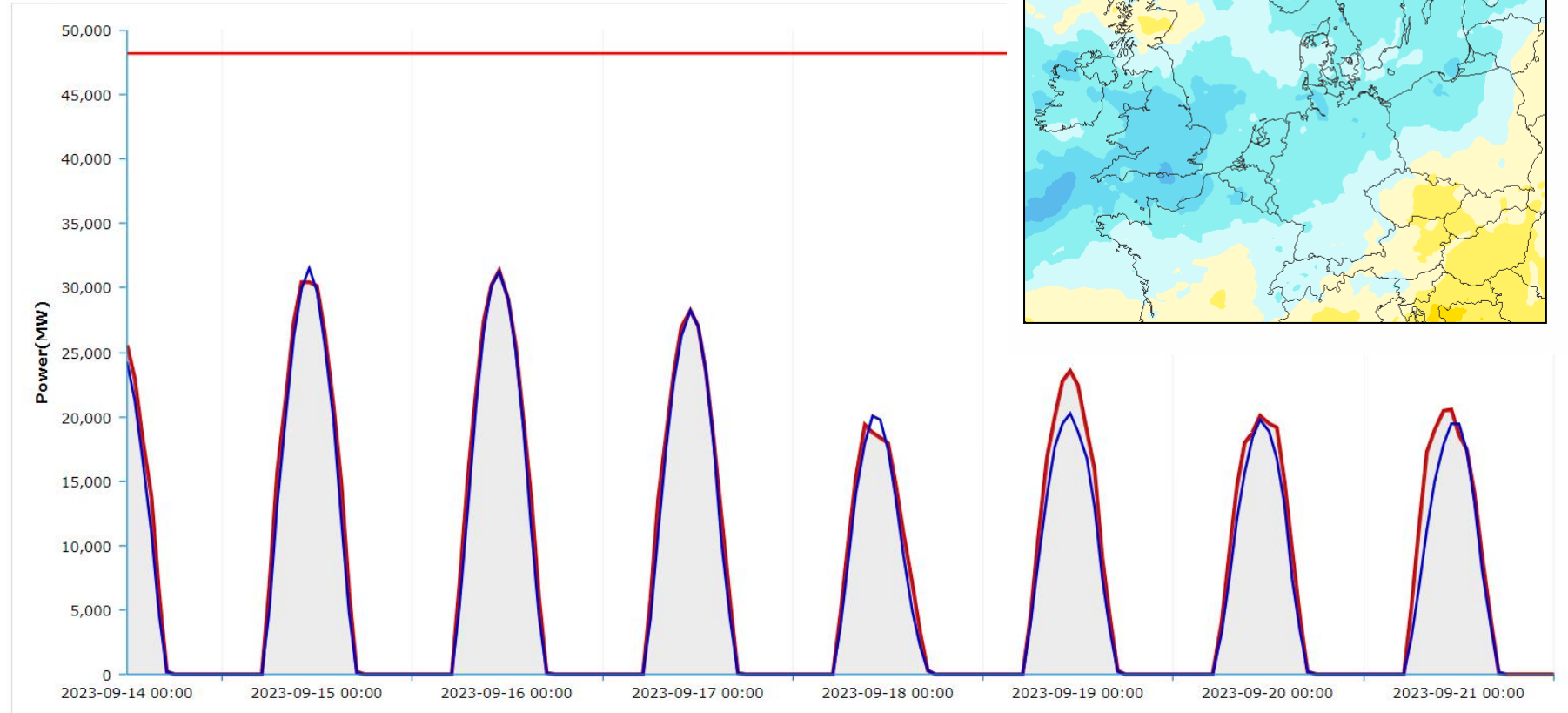
Fluctuations in Denmark around 18/9 with possible higher production.





# Germany Solar

Last update : 2023-09-14 16:40:35

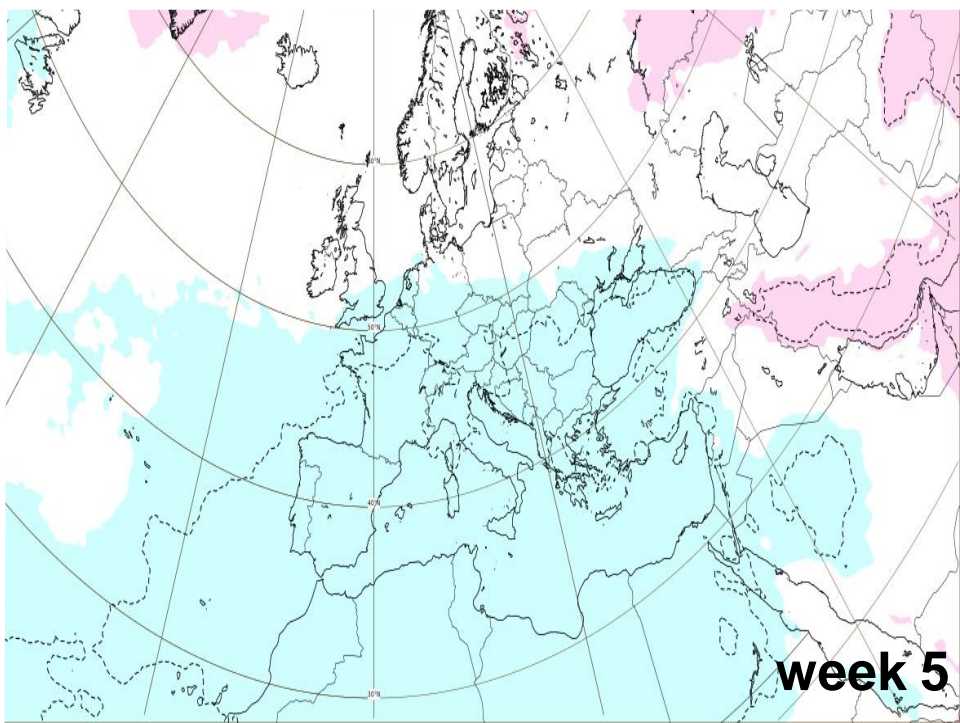
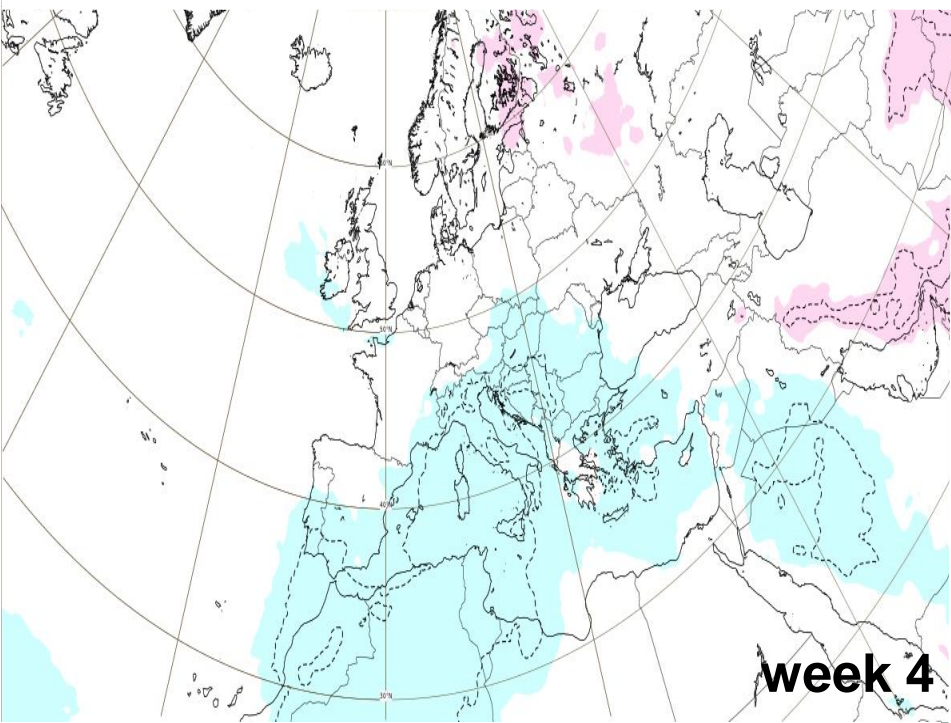
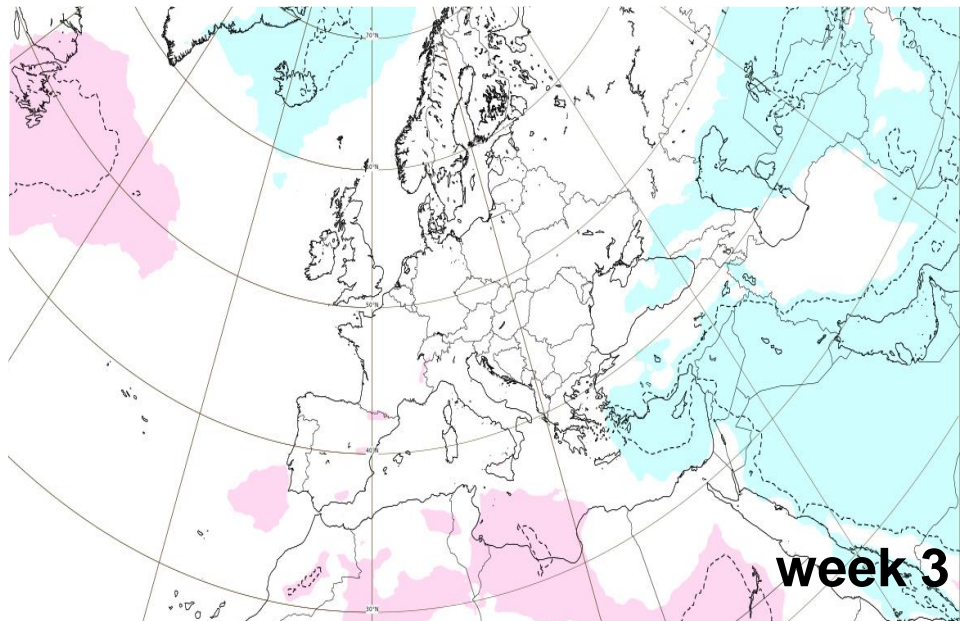
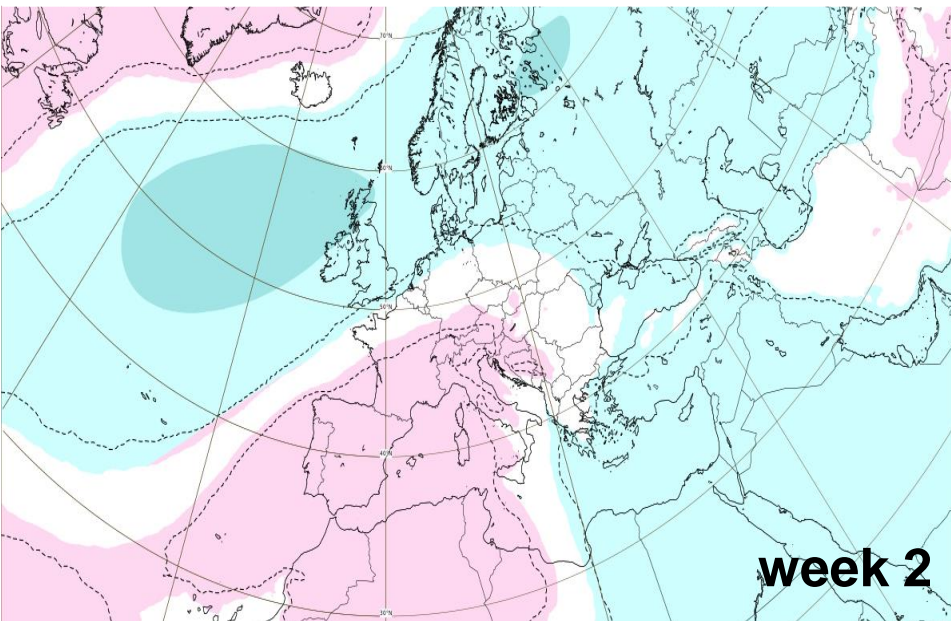


## Solar production

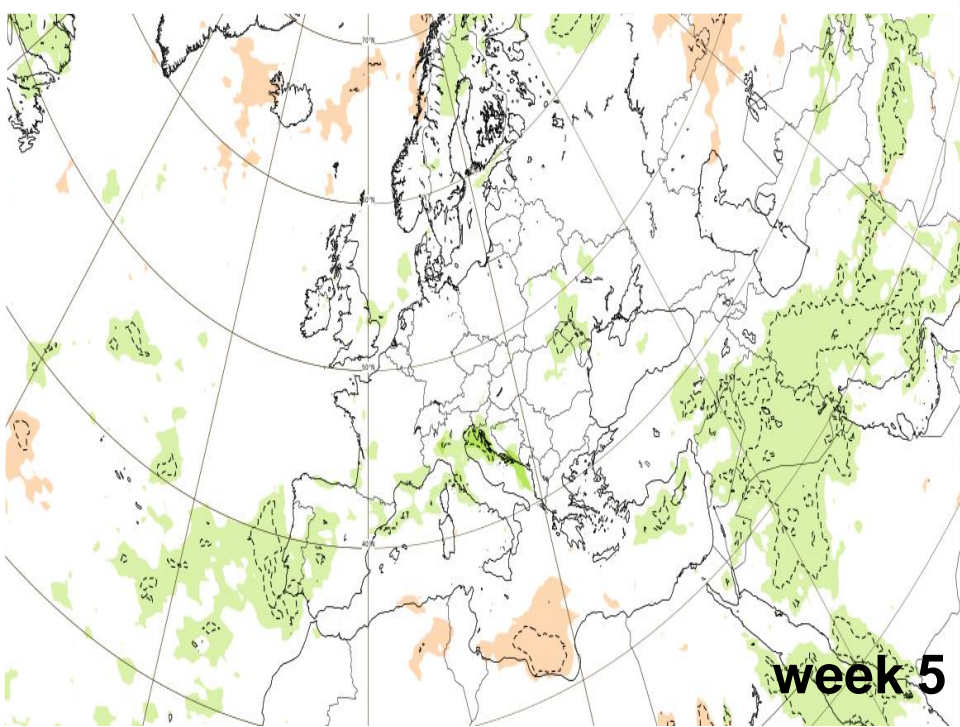
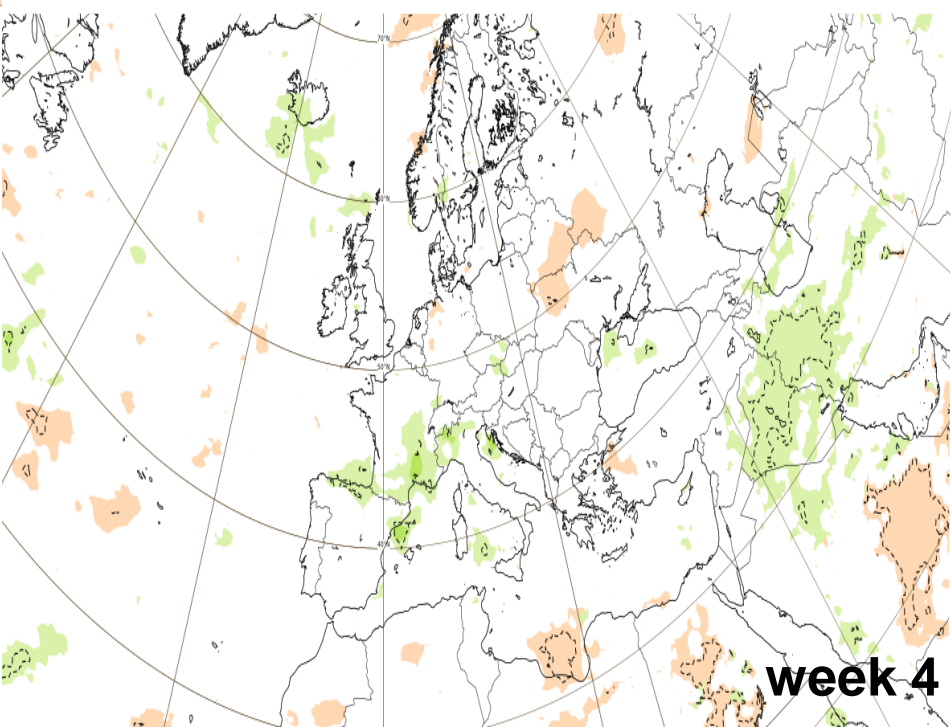
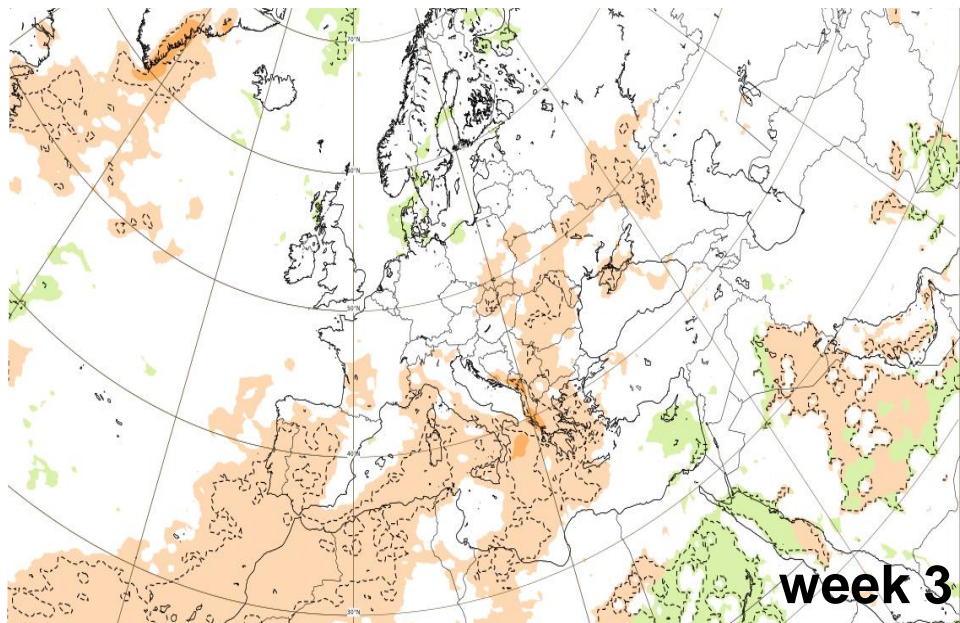
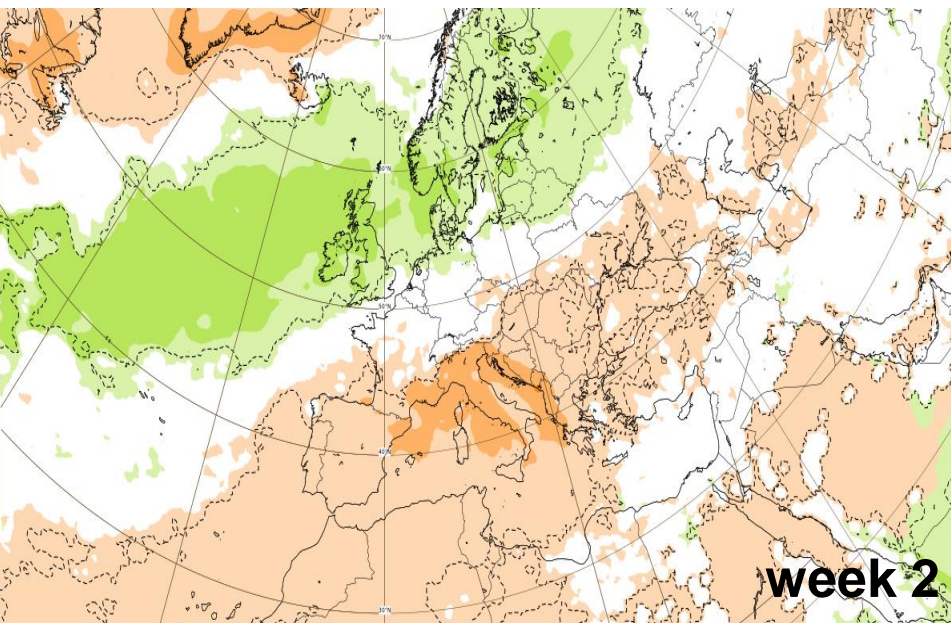
**Development:** Solar production above average until 17/9. From 18/9 production is decreasing but remains above normal for this period.

**Uncertainty / alternatives:** Daily peak during 19/9 is uncertain.

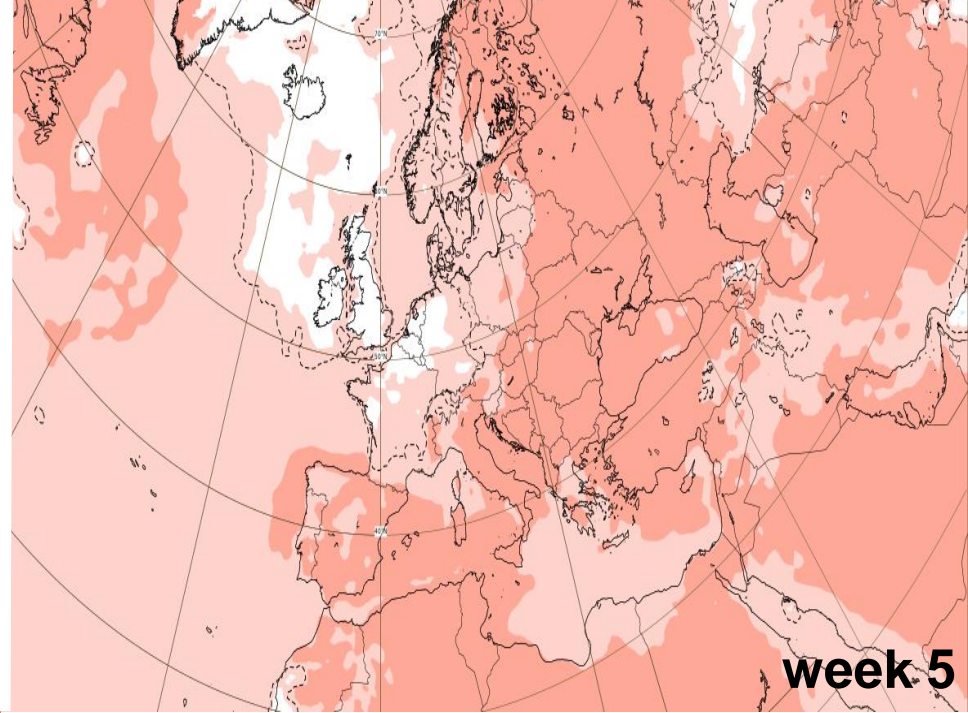
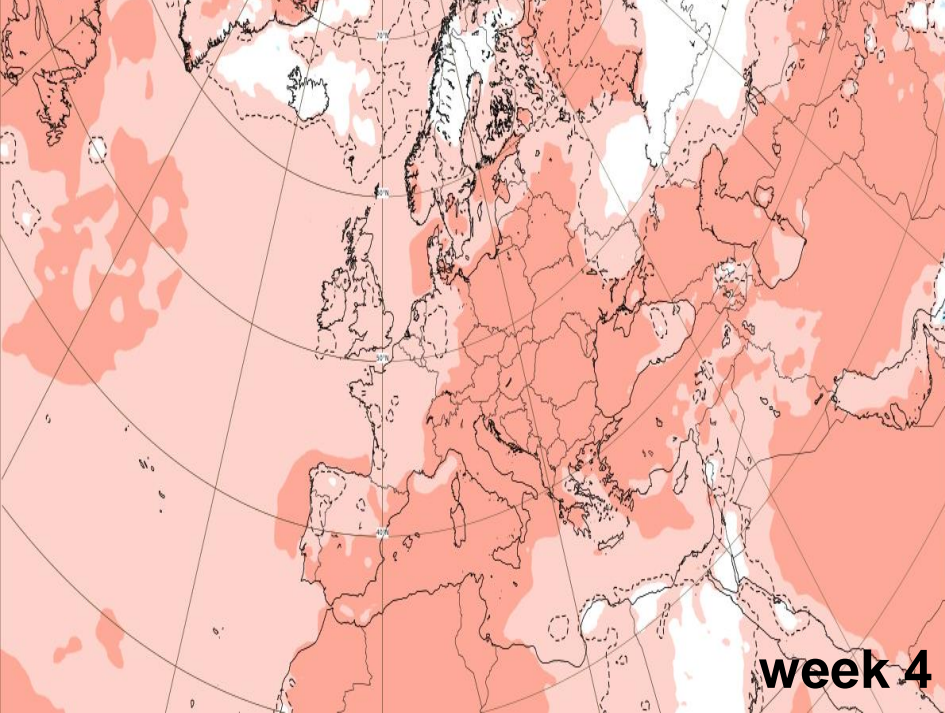
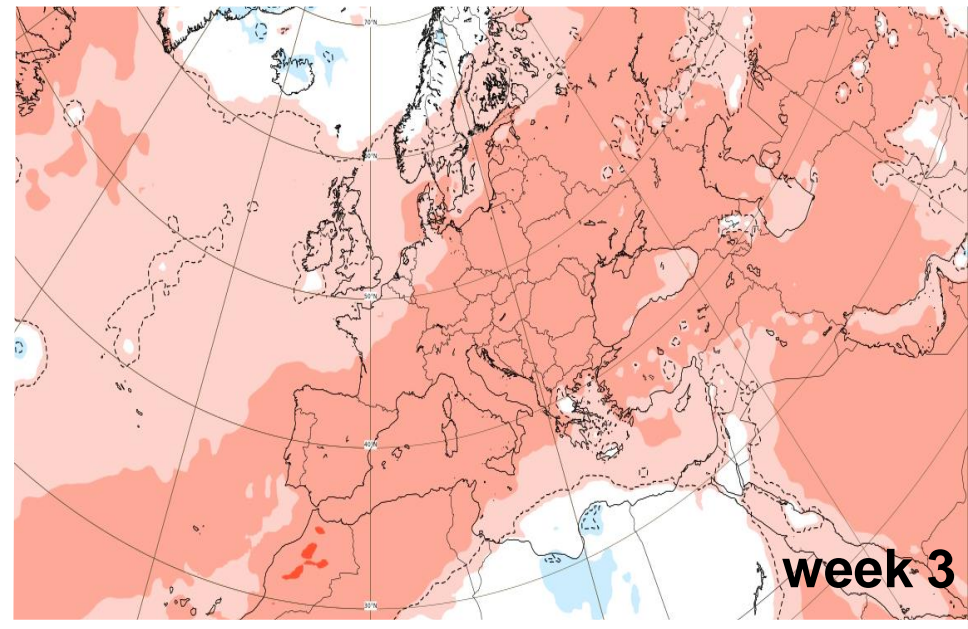
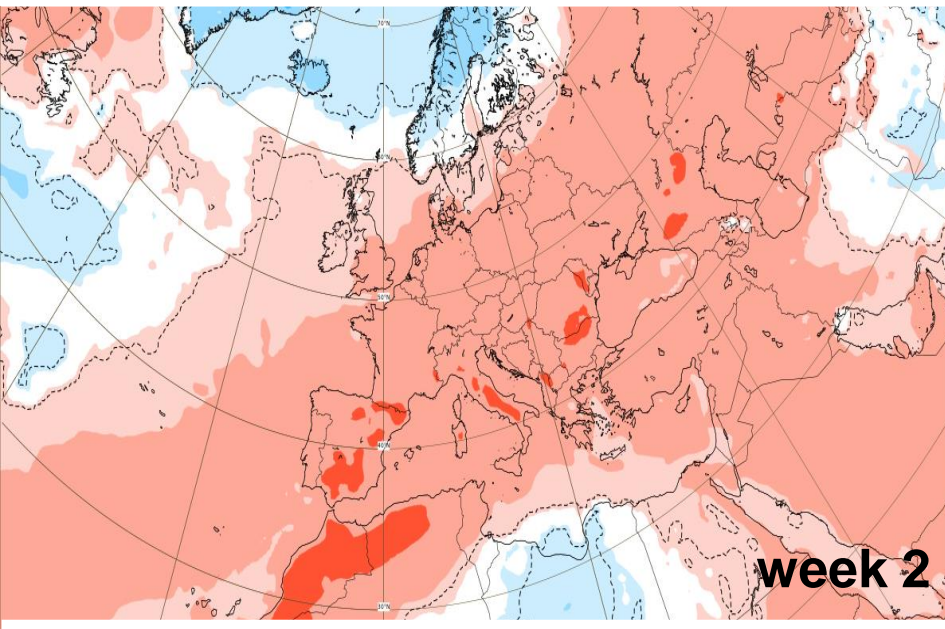
# Pressure development week 2-5



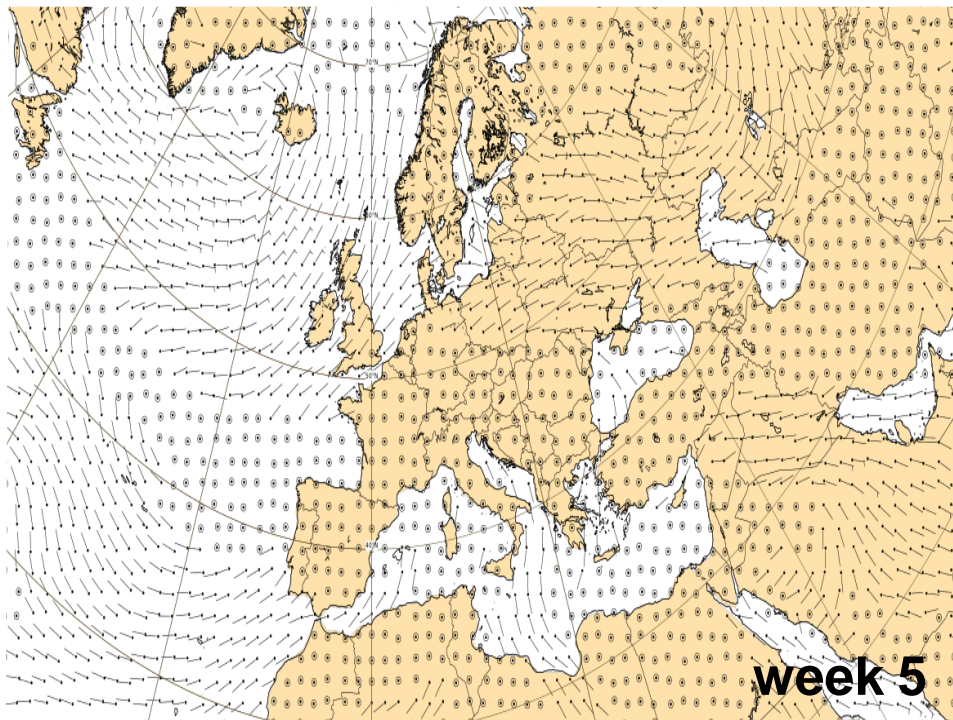
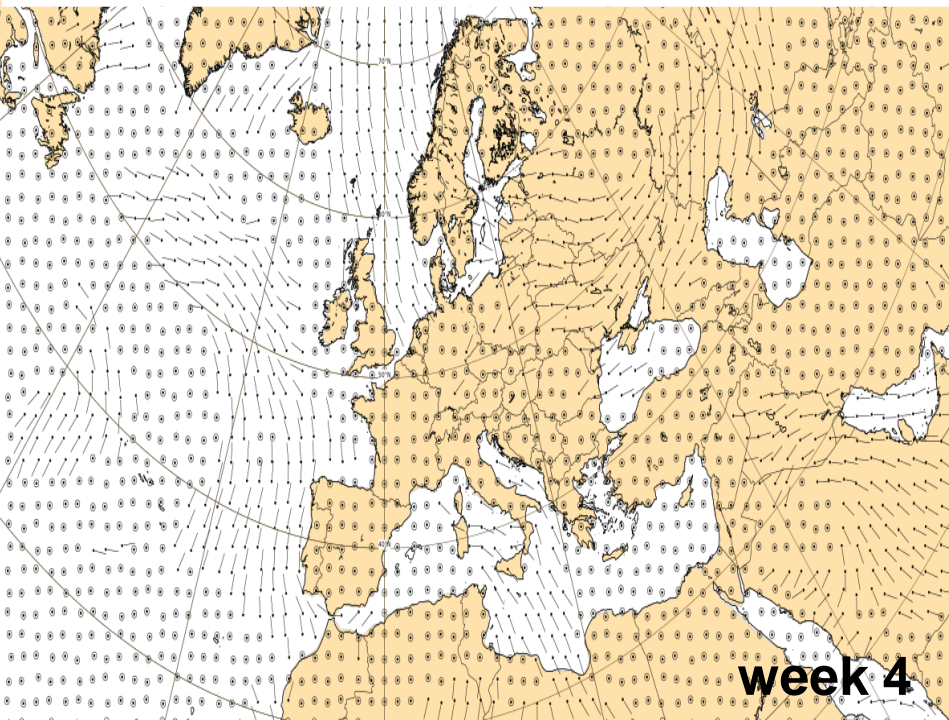
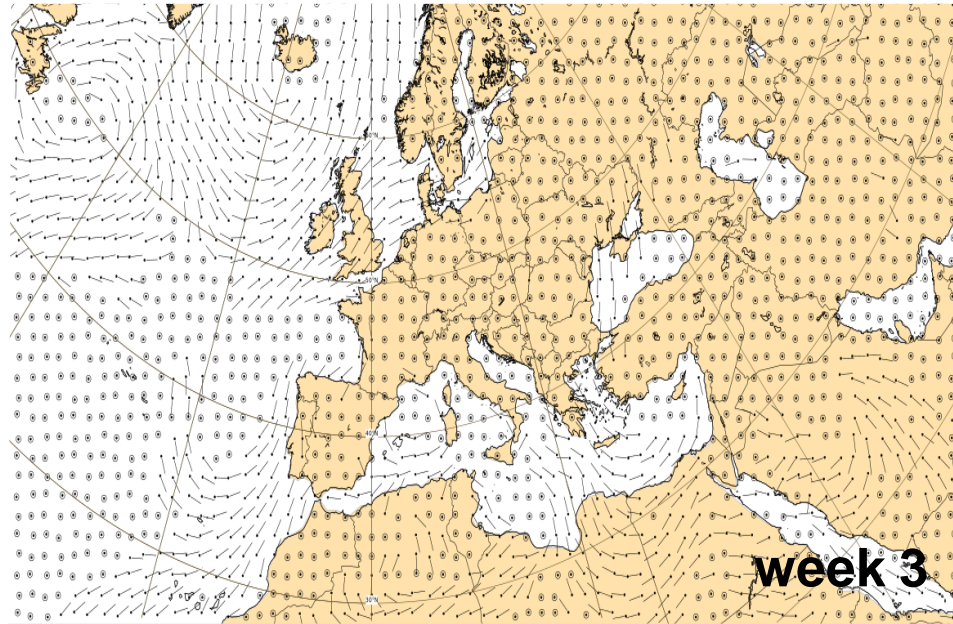
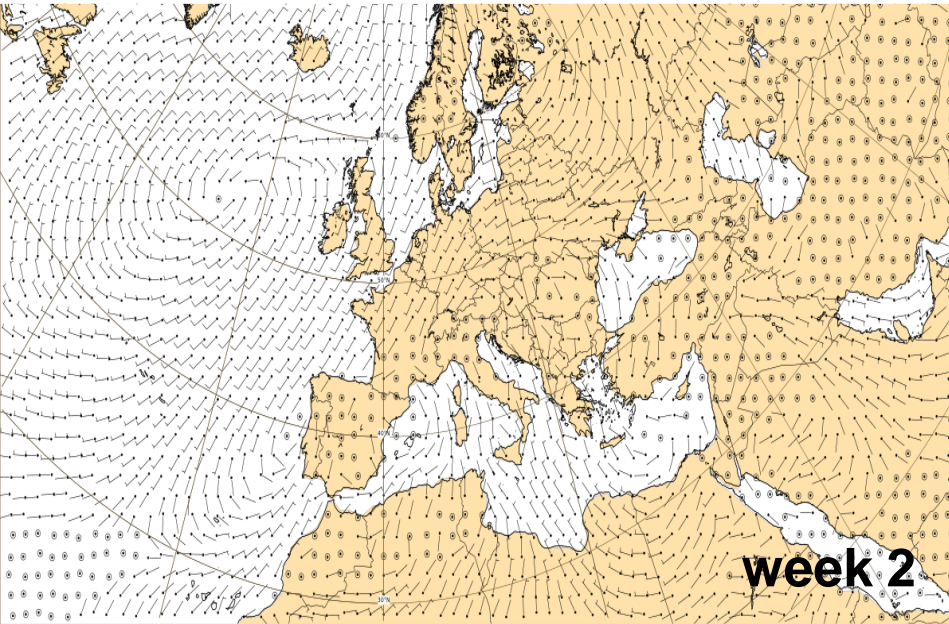
# Precipitation development week 2-5



# Temperature development week 2-5



# Wind at 100m development week 2-5



Oct 2023

Oct 2023

# Long-term forecasts

## *EC monthly forecast (week 2-5), Scandinavia*

### Development

Colder on the west during week 2. During week 3 and 4 around normal temperatures on the west and above normal on the east of Scandinavia. Warmer during week 5. Wetter during week 2 across Scandinavia, after without precipitation signal.

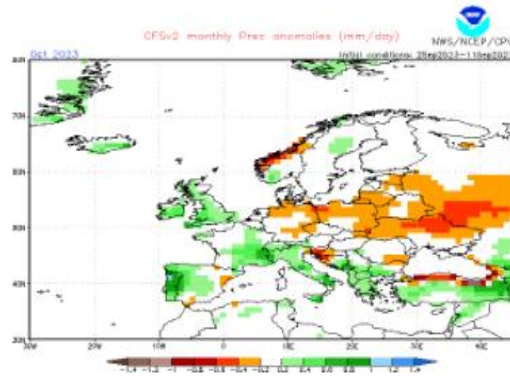
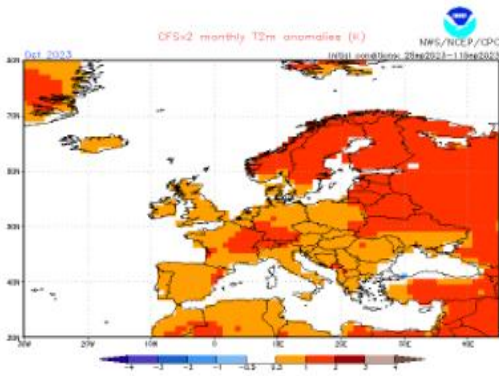
**Change:** colder on the west during week 2

## *NCEP seasonal forecast, Scandinavia*

### Development

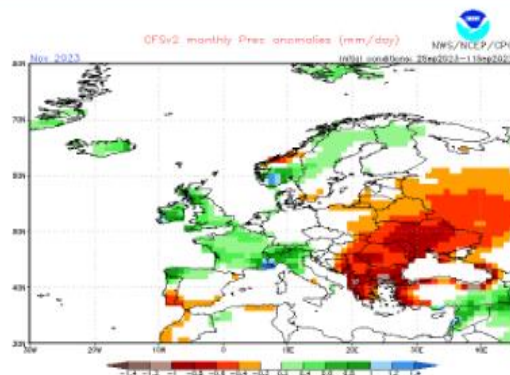
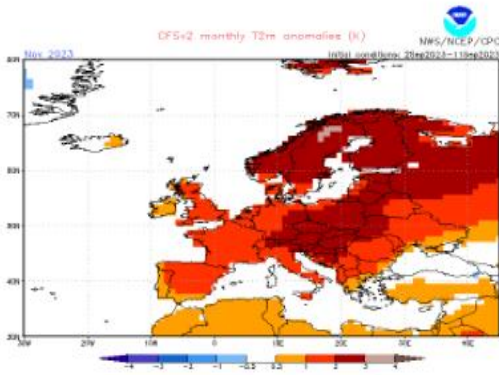
During October temperature 1-2 degrees above normal. During November significantly warmer across Scandinavia and in central Europe.

During October without significant precipitation signal. Wetter in November  
**Change:** warmer and wetter in November



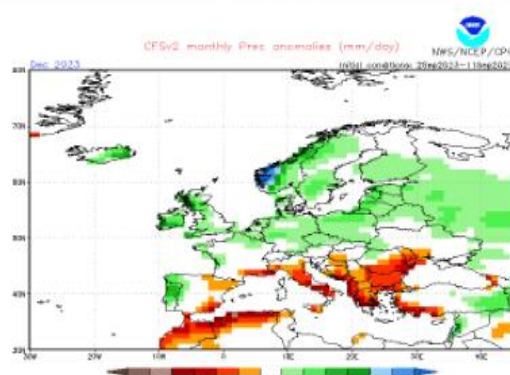
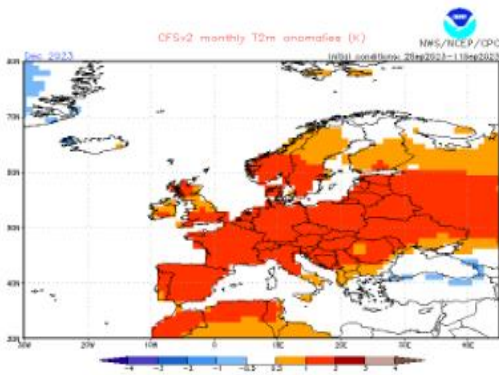
Nov 2023

Nov 2023



Dec 2023

Dec 2023



## Monthly forecasts, wind and sun

	Germany		Denmark		Sweden	
	Wind	Solar	Wind	Solar	Wind	Solar
<b>Week 2</b>	85%	95%	100%	85%	100%	80%
<b>Week 3</b>	90%	95%	90%	90%	90%	85%
<b>Week 4</b>	90%	85%	85%	95%	90%	95%
<b>Week 5</b>	95%	85%	90%	90%	85%	90%

## Seasonal forecast, precipitation and temperature anomalies

	Germany		Scandinavia	
	Precipitation	Temperature	Precipitation	Temperature
<b>October</b>	90%	+0.5 -2.0 degree	100%	+1.0 -2.0 degree
<b>November</b>	100%	+1.5 -2.0 degree	105%	+2.0 -3.0 degree
<b>December</b>	105%	+1.0 -2.0 degree	110%	+0.5 -2.0 degree
<b>January</b>	110%	+1.0 -2.0 degree	105%	+0.5 -2.0 degree

## Uncertainty assessment, long-term forecasts

Continued predominance of warm developments in Scandinavia and central Europe. Significantly warmer in Scandinavia during November.