

OUTLOOK

15 April 2020

OUTLOOK USER GUIDE

PREDICTED TERCILE

Above Normal

Below

The forecast information provided is probabilistic. Instead of one single model realisation, several realisations are considered (ensemble members), providing a set of several possible outcomes (48 for NCEP CFSv2 and 51 for ECMWF SEAS5). This information is summarised and transmitted in the form of probabilities. Three equiprobable categories (terciles) have been used: below normal, normal and above normal. Each one of these tercile categories contains one third (33.3%) of the events over the reference period. The forecasted probability corresponds to the percentage of ensemble members predicting below normal, normal or above normal conditions, based on the past climatology.

following the methodology described in the advanced help of the DST.

This outlook presents forecasts available on the DST on the 15th of April 2020 for the coming

four weeks and next three months. These S2S4E forecasts were made by postprocessing the climate prediction systems NCEP CFSv2 (sub-seasonal) and ECMWF SEAS5 (seasonal),

PROBABILITY RANGE

50% to 100%	As seen in the DST, regions where the predicted probability of the most likely tercile equals or is higher
• 34% to 49%	than 50% are represented with a bigger symbol, to highlight areas of larger probability. Users can customise the exact percentage of predicted probability (from 0 to 100%) in the DST.
EXTREMES	
🛕 Max (p90)	To provide information about the probability of having very high or very low climate conditions, the DST
🤍 Min (p10)	displays the percentage of members under the 10th percentile and the percentage of members exceeding the 90th percentile. These 10th and 90th percentiles have been computed from the climatological period. Extreme events are shown with a triangle symbol when the probability of an extreme event occurring is
SKILL SCORES	over 25%.
	In the maps presented in this outlook, only regions with positive skill are shown. Skill scores below 0 are
	defined as unskilful, those equal to 0 are equal to the climatology forecast, and anything above 0 is an
	improvement upon alimetalary, up to 1, which indicates a "inorfact" forecast. In the DCT, these values

improvement upon climatology, up to 1, which indicates a "perfect" forecast. In the DST, these values have been expressed as percentages, where a skill of 1 would equal to 100% skill. FairRPSS for terciles and Brier Skill Scores for extremes are used.



If you have queries or feedback you can contact us at:



The DST outlooks are released once per month and are available at:



www.s2s4e.eu/dst



s2s4e@bsc.es

s2s4e.eu/climate-services/outlooks



This project has received funding from the Horizon 2020 programme under grant agreement n°776787. The content of this report reflects only the author's view. The European Commission is not responsible for any use that may be made of the information it contains.

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Sub-seasonal forecasts

for the weeks of 27 April - 3 May, and 4 - 10 May 2020

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Seasonal forecasts

for the months of May, June and July 2020

The beta version of S2S4E Decision Support Tool (DST) is an operational climate service that integrates, for the first time, sub-seasonal to seasonal climate predictions with renewable energy production and electricity demand.

Find examples of how the DST forecasts can inform the energy sector in the



available at:





Probability terms Enhanced : 34% - 49% High: 50% - 70%:

Very High: Greater than 70%

13 - 19 April

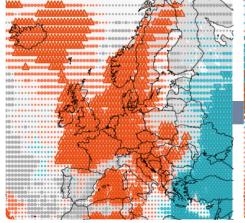


Temperature forecasts

Legend

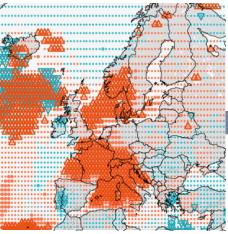
SUB-SEASONAL

Prediction system used: NCEP CFSv2



High probability of above normal temperatures in central and northern Europe, with risk of high extremes. Enhanced probability of below normal temperatures in eastern countries (~50% skill).

May 2020



20 - 26 April

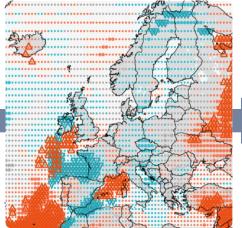
High probability of above normal temperatures in central and northern Europe (particularly in France, Switzerland and Belgium). Risk of high extremes in central Europe and the North Sea (~20% skill).



27 April - 3 May

High probability of above normal temperatures in eastern and western Mediterranean, affecting Greece, Bulgaria and Turkey (~20% skill).

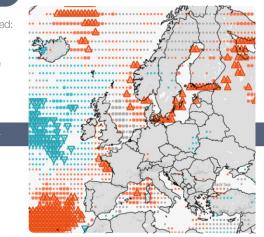
4 - 10 May



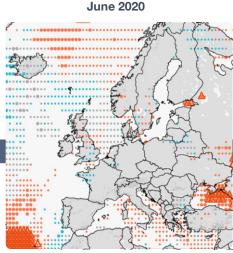
High probability of above normal temperatures in Turkey and Ukraine. Enhanced probability of below normal temperatures in central Europe, with high probability in Austria and Slovenia (10-20% skill).

SEASONAL

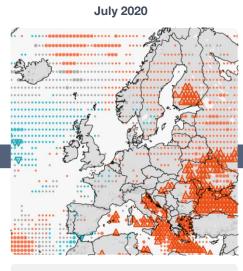
Prediction system used: ECMWF SEAS5



High probability of above normal temperatures in the Baltic sea region towards Finland. Forecasts do not show a clear signal over mainland Europe.



High probability of above normal temperatures in eastern Europe.



High probability of above normal temperatures persists in eastern Europe and parts of Scandinavia.

Browse the global forecasts in the DST:

www.S2S4E.eu/dst



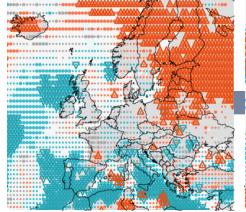
Probability terms Enhanced : 34% - 49% High: 50% - 70%: Very High: Greater than 70%

13 - 19 April

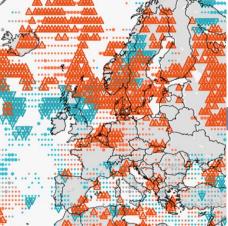
Wind speed forecasts

SUB-SEASONAL

Prediction system used: NCEP CFSv2



High probability of above normal wind speeds in the Nordic countries (~20% skill). High probability of below normal wind speeds in the Mediterranean.



20 - 26 April

High probability of above normal wind speeds in the Nordic countries, and the Baltic and North Seas (<10% skill).

June 2020

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27 April - 3 May

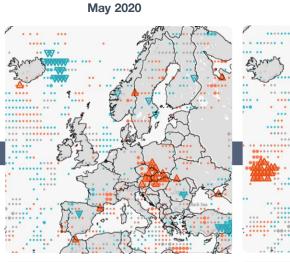
Enhanced probability of above normal wind speeds in the North Sea, Italy and the Balkan countries (<5% skill).

High probability of above normal wind speeds in Norway and Sweden (~10% skill).

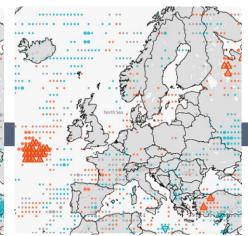
SEASONAL

Prediction system used: ECMWF SEAS5

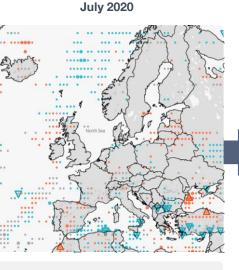
Maps show areas where



Enhanced to **high** probability of above normal wind speeds in central Europe, especially in Austria and Czech Republic.



Enhanced probability of above normal wind speeds in southern Scandinavia and the Baltic region.



Enhanced probability of above normal wind speeds persists in the Baltic sea region. High probability of below normal winds over many regions in the Mediterranean.

Browse the global forecasts in the DST:

www.S2S4E.eu/dst



4 - 10 May

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The S2S4E partners shall not be liable to any user for any loss or damage, whether in contract, tort (including negligence), breach of statutory duty or otherwise, even if foreseeable, arising under or in connection with use of, or inability to use, this outlook.



Probability terms Enhanced : 34% - 49% High: 50% - 70%: Very High: Greater than 70%

13 - 19 April

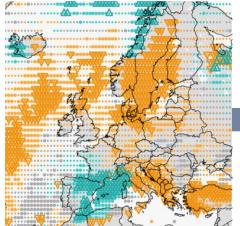
Precipitation forecasts

)) Legend

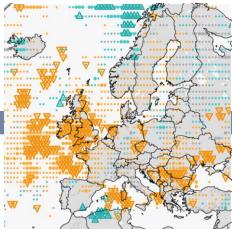
SUB-SEASONAL

Prediction system used: NCEP CFSv2

Maps show areas where skill (fRPSS) > 0

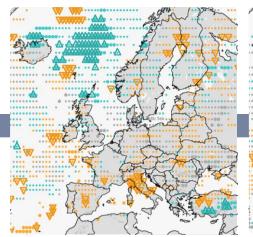


High probability of below normal precipitation in most of Europe, with risk of low extremes in Sweden and the Balkans. **Very high** probability of above normal precipitation in Spain (40% skill), with risk of high extremes.



20 - 26 April

High probability of below normal precipitation in the UK and Eastern Europe (<10% skill), with some risk of low extremes.



27 April - 3 May

Probabilities generally similar to climatology.

High probability of below normal precipitation in the Balkans and northern Scandinavia (<10% skill), with risk of low extremes.

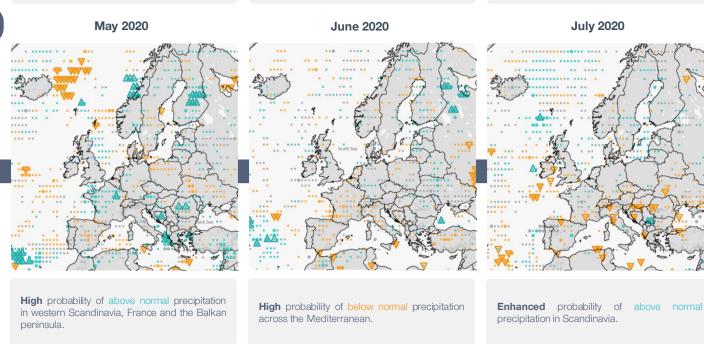
4 - 10 May

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SEASONAL

Prediction system used: ECMWF SEAS5

Maps show areas where skill (fRPSS) > 0



Browse the global forecasts in the DST:

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Probability terms Enhanced : 34% - 49% High: 50% - 70%: Very High: Greater than 70%

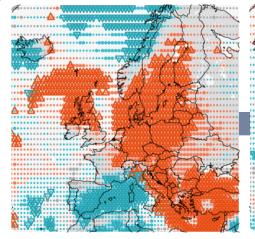
13 - 19 April



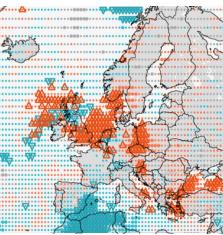
Solar radiation forecasts

Prediction system used: NCEP CFSv2

Maps show areas where skill (fRPSS) > 0

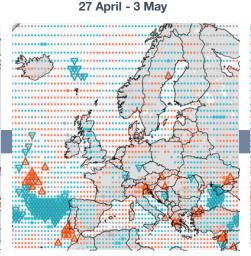


High or very high probability of above normal solar radiation in most of Europe, with risk of high extremes. Very high probability of below normal solar radiation in Spain and Iceland (10-40% skill).



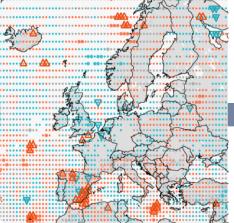
20 - 26 April

High probability of above normal solar radiation in central Europe, with risk of high extremes in the North Sea region.



Probabilities generally similar to climatology.

4 - 10 May

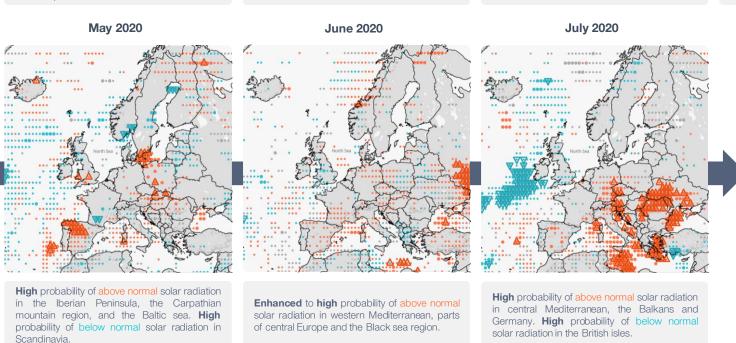


Enhanced probability of below normal solar radiation in central Europe (<20% skill).

SEASONAL

Prediction system used: ECMWF SEAS5

Maps show areas where skill (fRPSS) > 0



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