

Guidance on cold wave, heavy precipitation

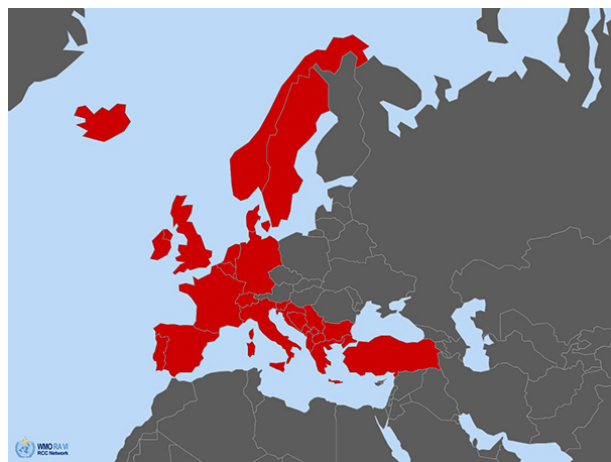
ID: 201808-u17

Area concerned:

Cold wave: Northern, Western, Central Europe (Iceland, Norway, Denmark, Sweden, Ireland, United Kingdom, Netherlands, Belgium, Luxemburg, France, Germany, Switzerland)

Heavy precipitation: Mediterranean and Middle East (Portugal, Spain, southern France, Monaco, Italy, Malta, Slovenia, Croatia, Bosnia-Herzegovina, Montenegro, Serbia, Albania, Former Yugoslav Republic of Macedonia, Greece, Bulgaria, western and southern Turkey)

Initial statement issued on 6 July 2018
First update issued on 20 July 2018
Second update issued on 3 August 2018
Third update issued on 17 August 2018
Fourth update issued on 24 August 2018
Fifth update issued on 07 September 2018
Sixth update issued on 19 September 2018
Seventh update issued on 2 October 2018
Eighth update issued on 16 October 2018
Ninth update issued on 24 October 2018
Tenth update issued on 2 November 2018
Eleventh update issued on 14 November 2018
Twelfth update issued on 26 November 2018
Thirteenth update issued on 11 December 2018
Fourteenth update issued on 19 December 2018
Fifteenth update issued on 8 January 2019
Sixteenth update issued on 15 January 2019
Seventeenth update issued on 29 January 2019



Valid: Begin: on 29 January 2019

End: 12 February 2019

To: Climate Watch focal points of NMHSs: Iceland, Norway, Denmark, Sweden, Ireland, United Kingdom, Netherlands, Belgium, Luxemburg, France, Germany, Switzerland, Slovenia, Croatia, Bosnia-Herzegovina, Montenegro, Serbia, Albania, FYR of Macedonia, Greece, Bulgaria, Turkey, Portugal, Spain, Monaco, Italy, Malta

The RA VI RCC Network Offenbach Node on Climate Monitoring (RCC Node-CM) is responsible for providing Climate Watch guidance information for NMHSs' own consideration for issuing climate advisories for their territory.

After having consulted the consortium partners of the RCC Node-CM and RCC Node-LRF (RA VI RCC Network Toulouse and Moscow Node on Long-Range Forecasting), RCC Node-CM issues the following guidance information:

Due to the results from monthly forecasts we expect:

1. A further continuation of **cold wave in Northern, Western, Central Europe** for the next two weeks with tendency of weakening especially in the second week. The probability for this development is estimated to more than 90% for the first week and 60-70% for the second week.

The cold wave will cause widespread frost even in lowlands (in Western Europe only temporarily), which might have dangerous impact on vegetation and health. Occasional snowfall can occur also, particularly in the first week.

2. A continuation of a period of **above-normal precipitation in the Mediterranean subregion** from Portugal to western and southern Turkey is expected for at least the next 1-2 weeks. Particularly concerned will be northern Iberia, Italy with central Mediterranean, western coasts of the Balkans and Greece, the Aegean Sea region and coasts of western and southern Turkey. In the second week, the main precipitation area will move to the east, and only areas near to southern Adriatic Sea / Ionic Sea, Aegean Sea and western/southern Turkey will be likely concerned. The probability is estimated to more than 90% for the first week, 70-90% for the second week.

The enhanced precipitation can cause local flooding and landslides. "

This information should be used as guidance for the National Meteorological and Hydrological Services (NMHS) in a pre-operational mode. It is up to the above mentioned NMHSs to closely monitor the status and evolution of the current climate conditions and to consider issuing a national Climate Watch Advisory. RCC Node-CM would appreciate feedback from NMHS whether this information was helpful. Also, any suggestion on further pieces of information needed by NMHSs is highly welcomed!

On demand we provide you with a template for a national climate watch advisory as agreed among the climate watch pilots and RCC Node-CM.

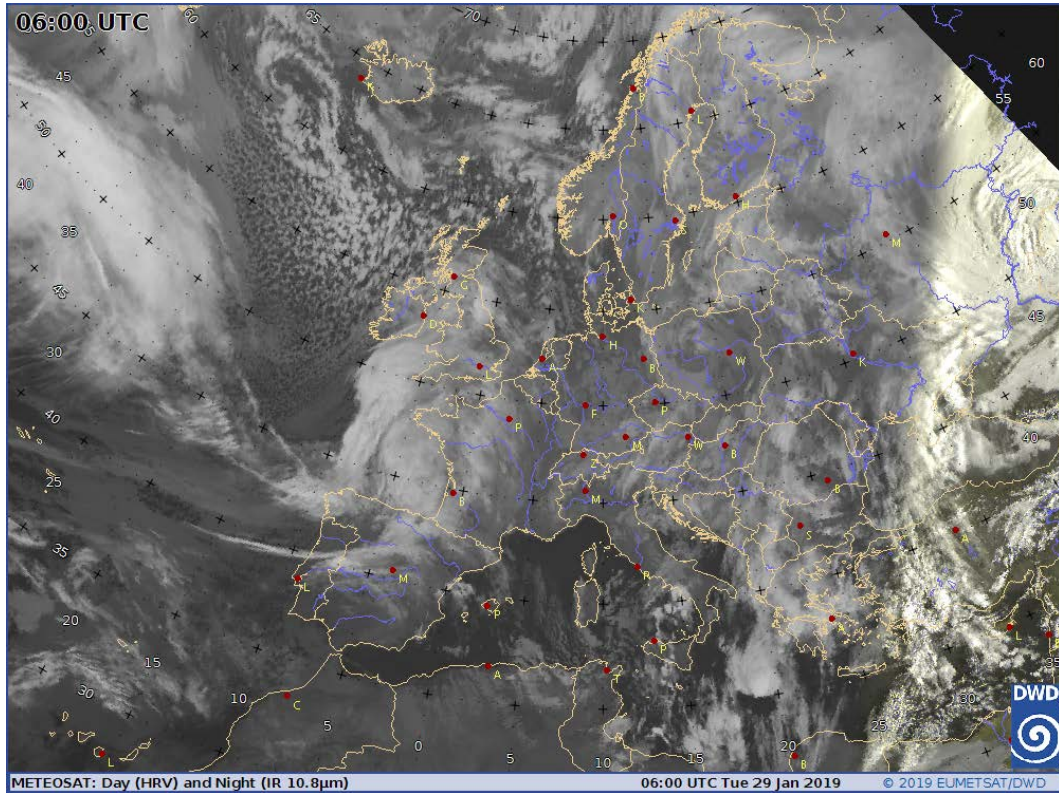
Please note that further information can be obtained from RCC Node-CM website (www.dwd.de/rcc-cm) concerning Climate Monitoring and from RCC Node-LRF websites (<http://seasonal.meteo.fr/en>, <http://neacc.meteoinfo.ru/forecast>) concerning Long-Range Forecast or by e-mail to rcc.cm@dwd.de or rcc-lrf-mf@meteo.fr.

For ECMWF member's further information on monthly forecasts after logging in is provided at <http://www.ecmwf.int/> ->Forecasts

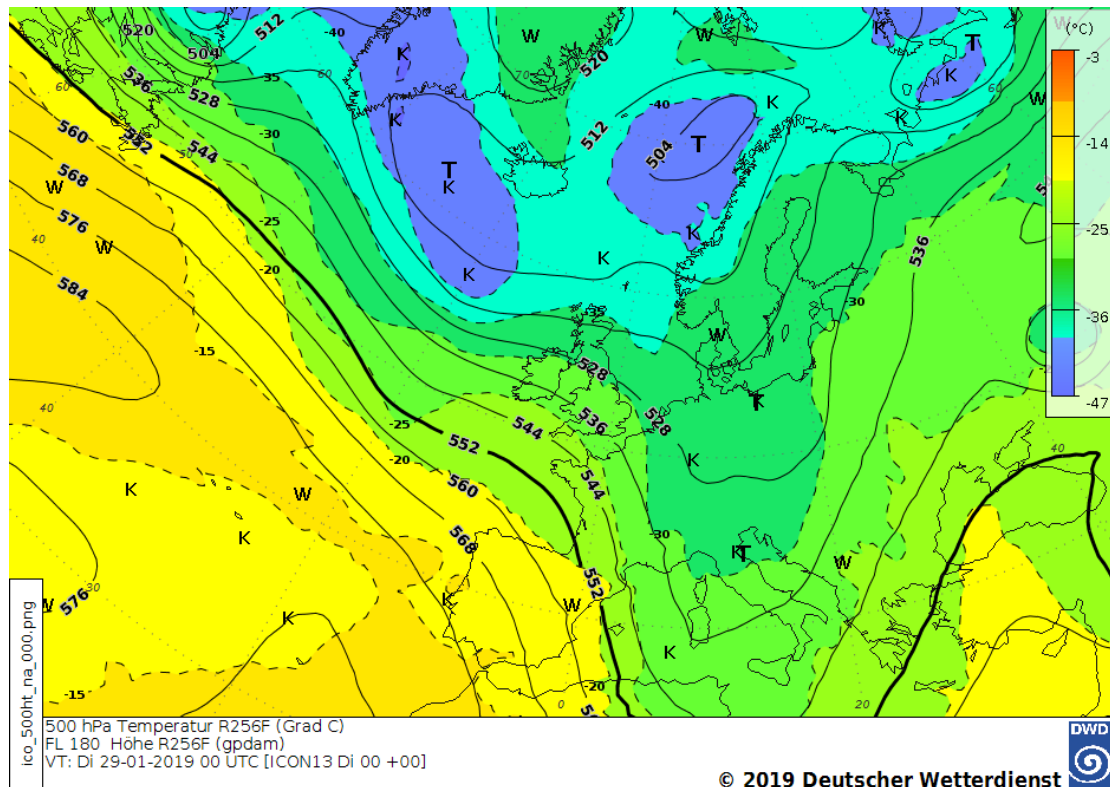
We will monitor the evolution of the anomaly, issue updates if significant change arise and close the advice when no clear signal can be detected in the forecasts.

On behalf of the RCC Node-CM Team

Climate Watch Advisory



Meteosat satellite image 29 January 2019, 06 UTC. Source: DWD

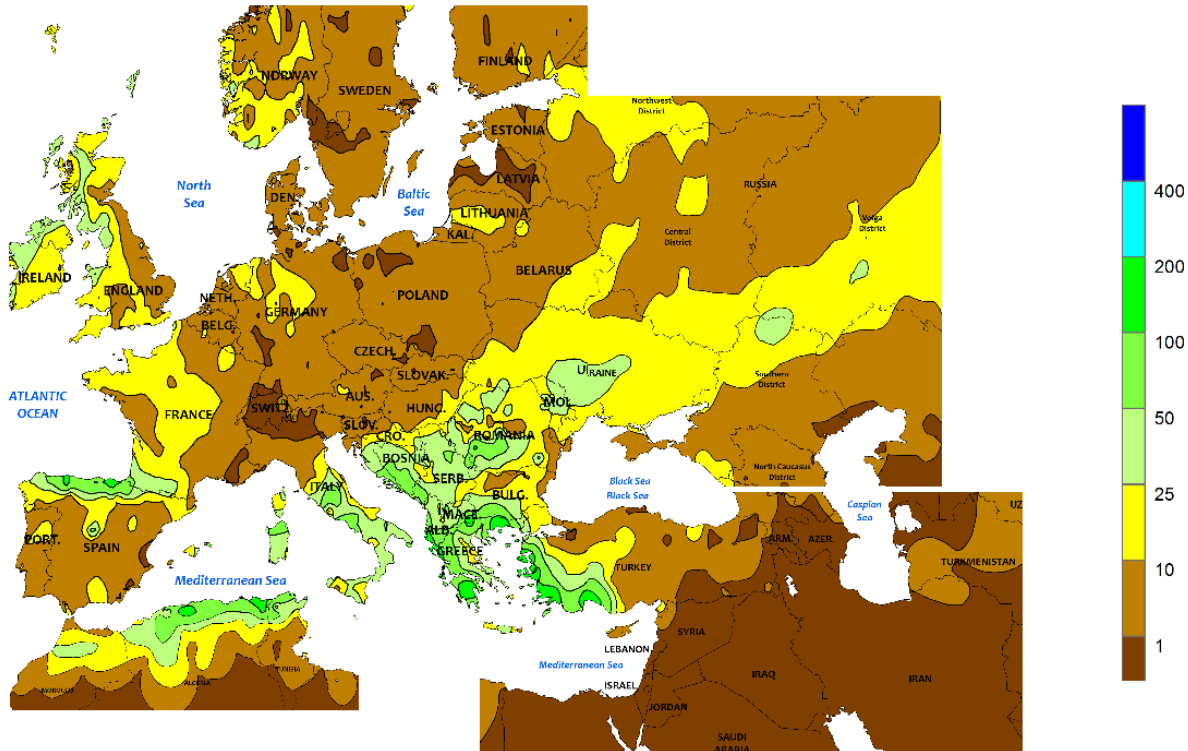


500 hPa chart, 29 January 2019, 00 UTC. Source: DWD

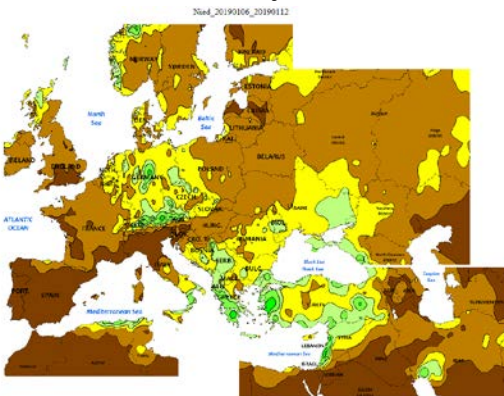
Climate Watch Advisory

20 – 26 January 2019

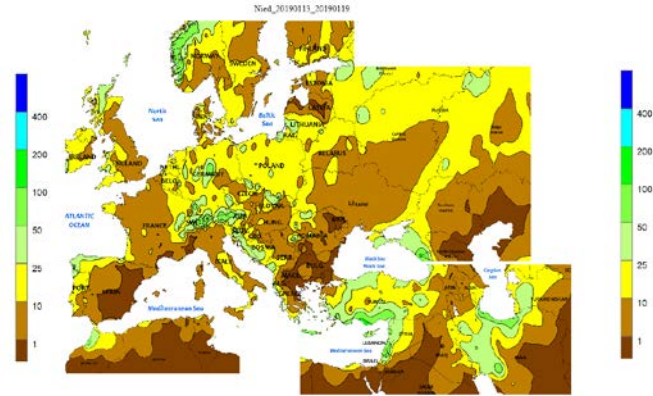
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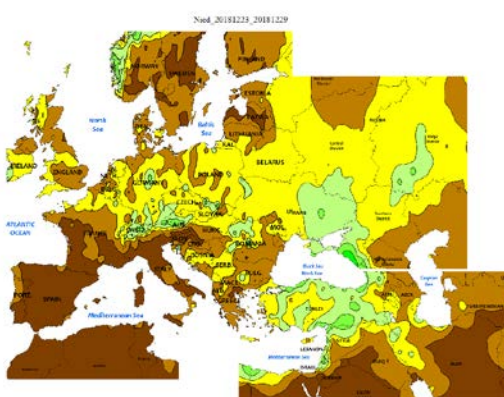
6 – 12 January 2019



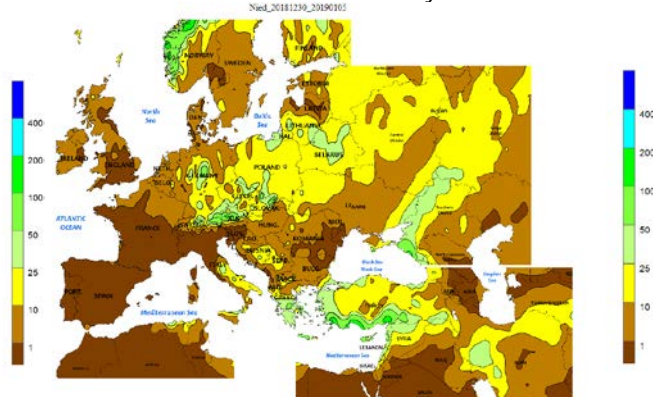
13 – 19 January 2019



23 – 29 December 2018

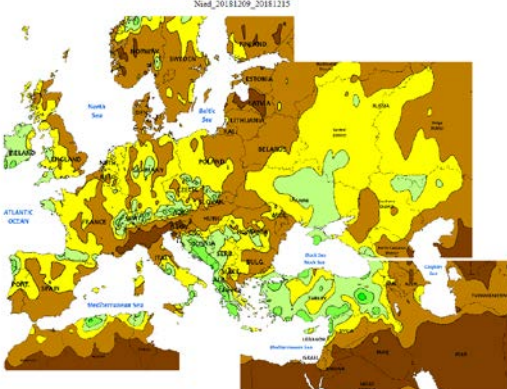


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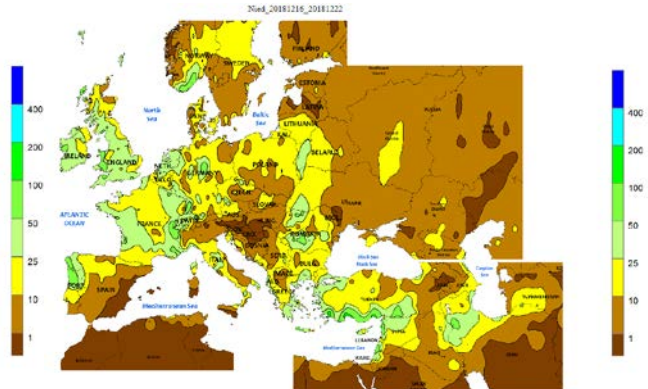


Climate Watch Advisory

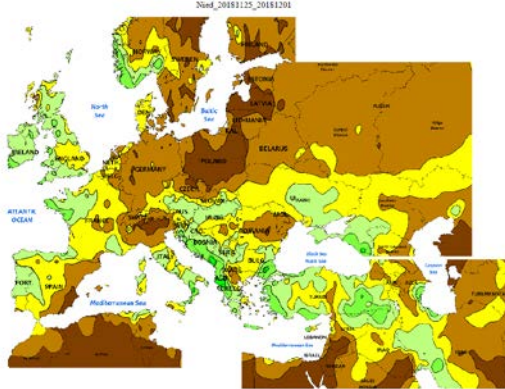
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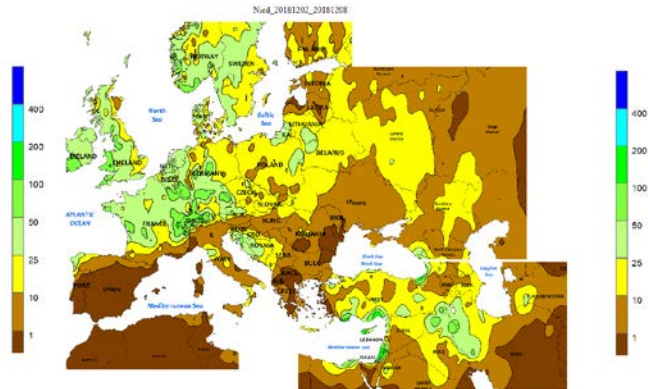
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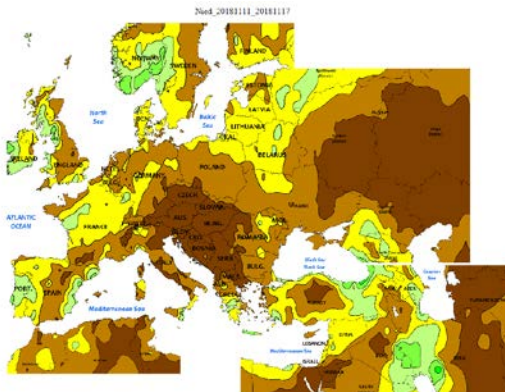
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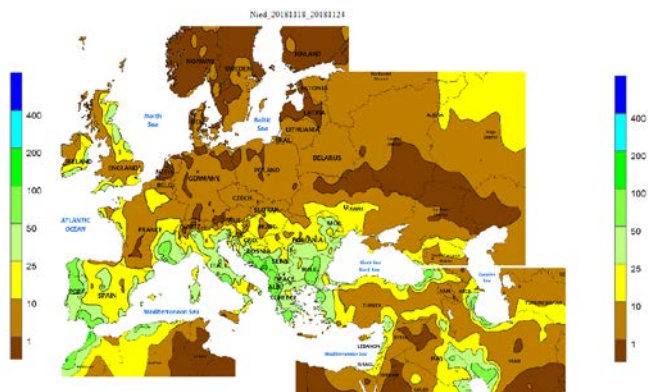
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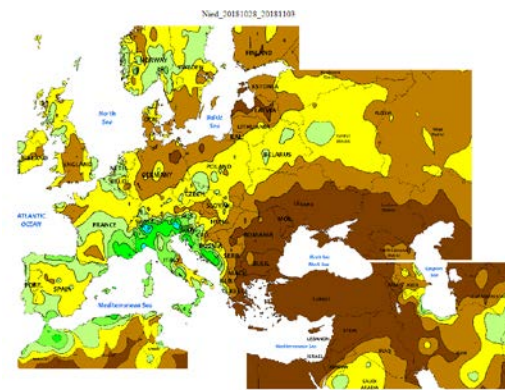
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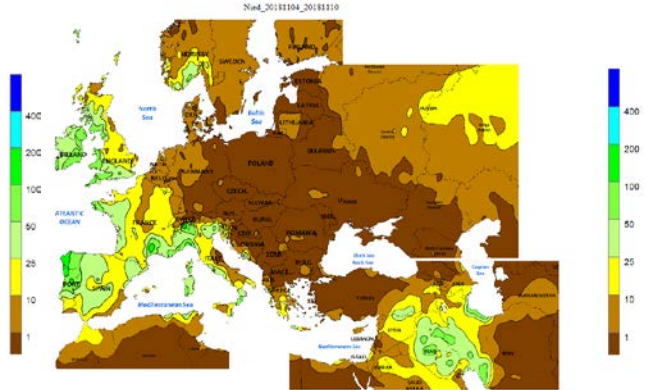
18 – 24 November 2018



28 October – 3 November 2018

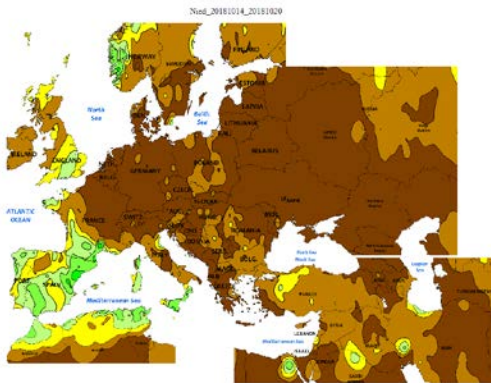


4 – 10 November 2018

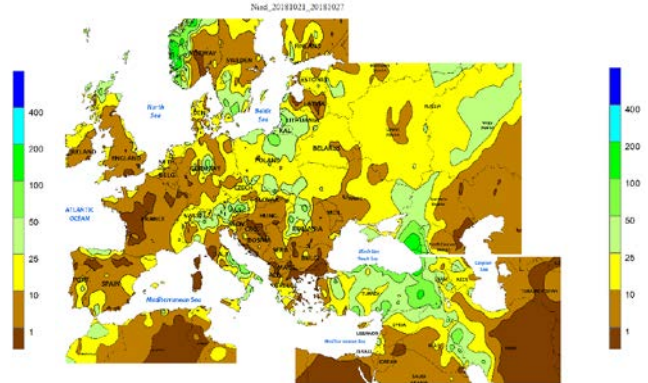


Climate Watch Advisory

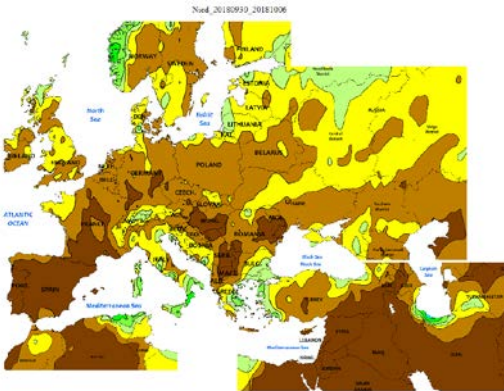
14 – 20 October 2018



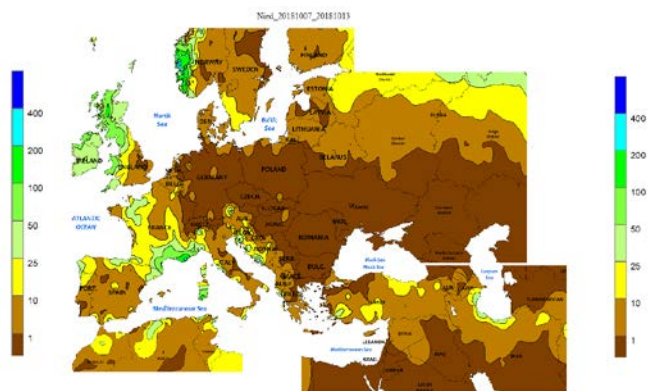
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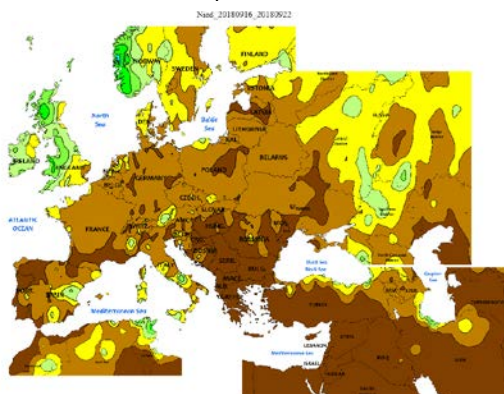
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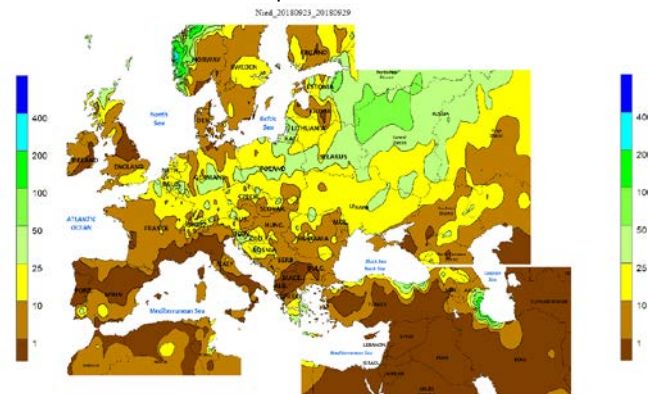
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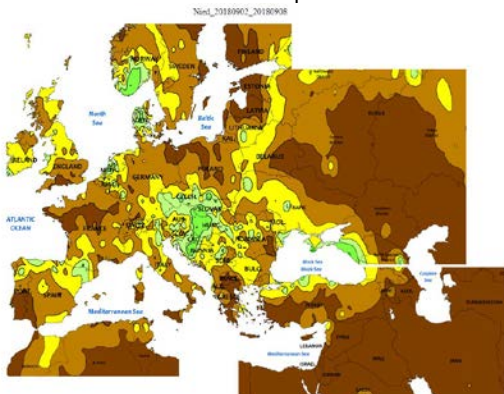
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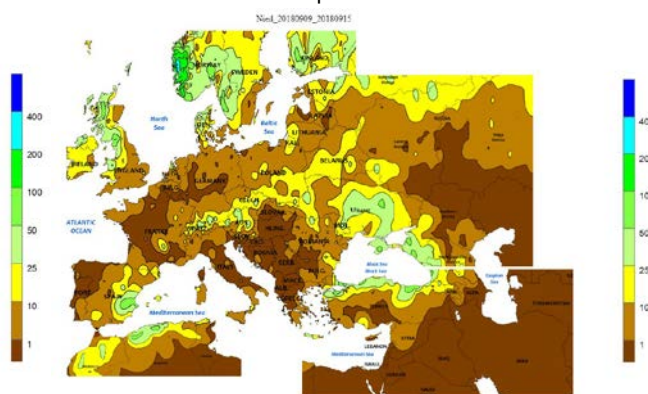
23 – 29 September 2018



02 - 08 September 2018

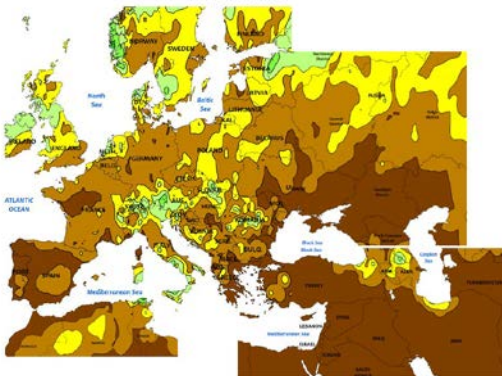


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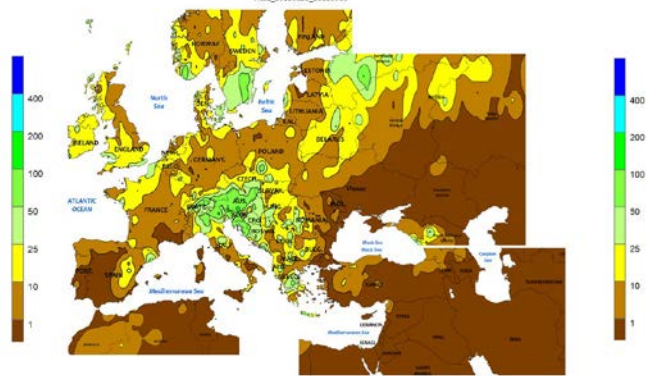


Climate Watch Advisory

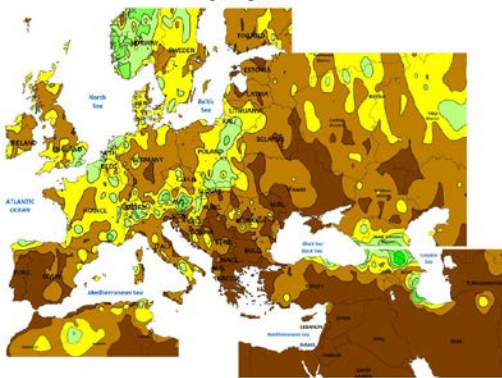
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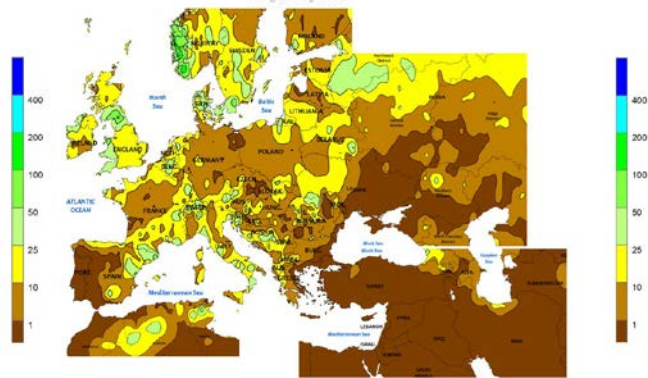
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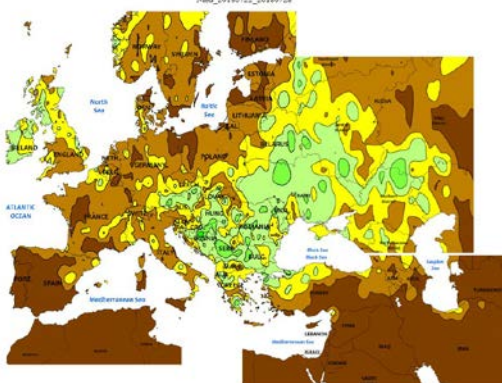
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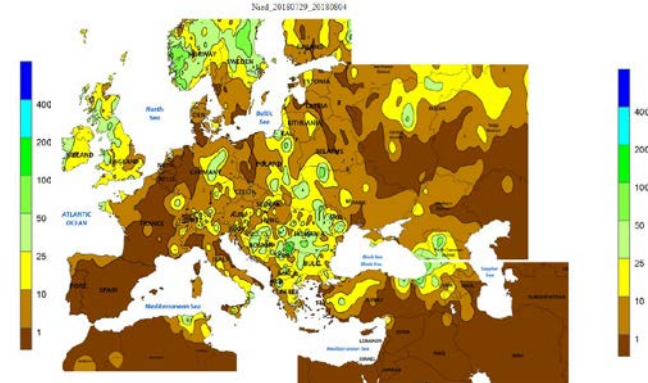
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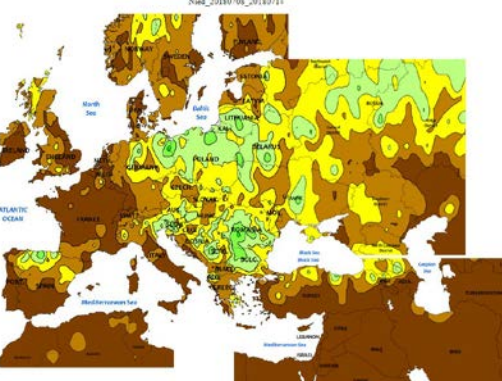
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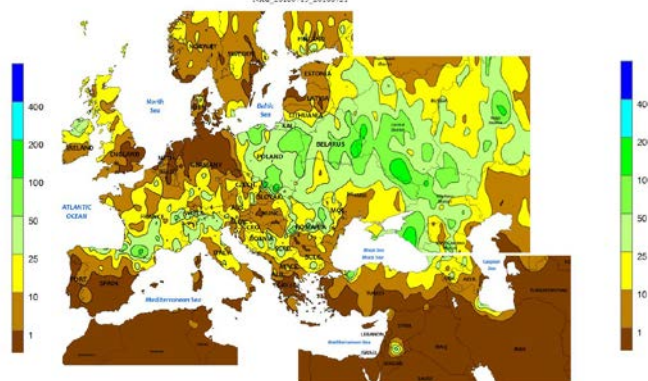
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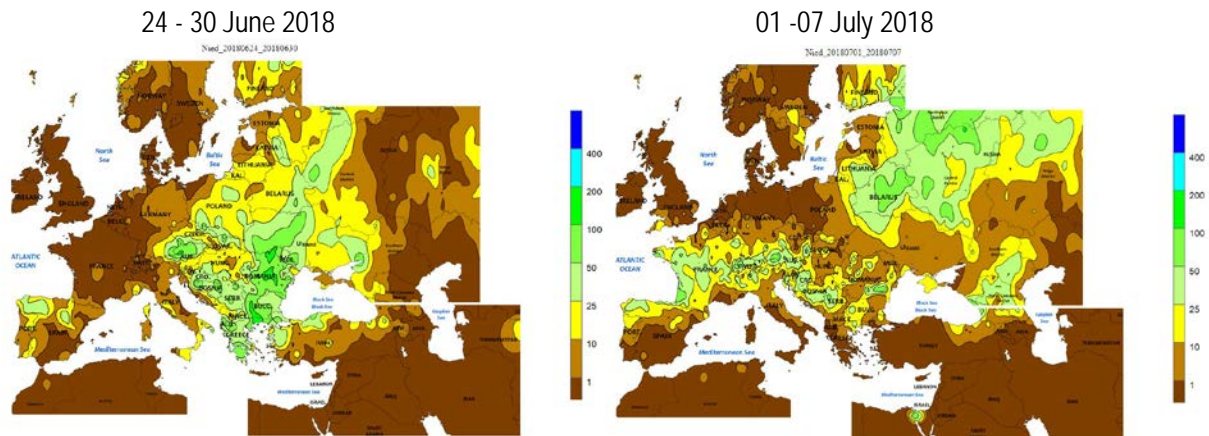
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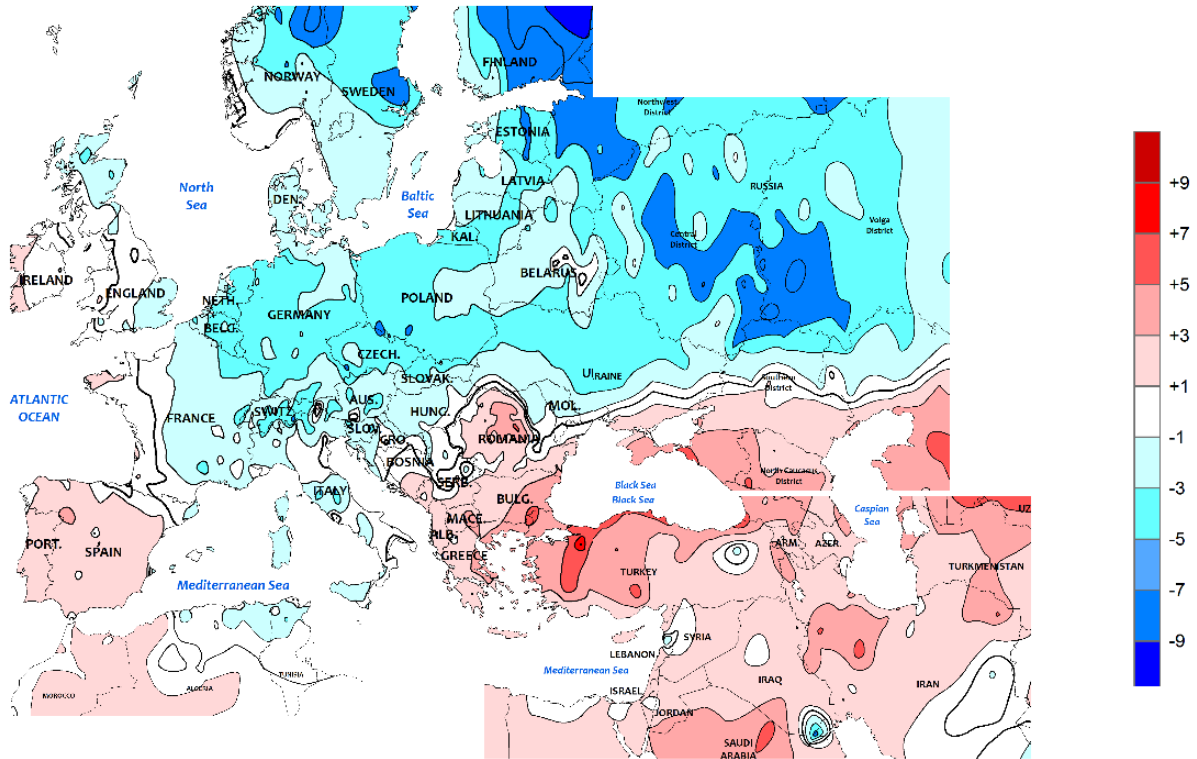


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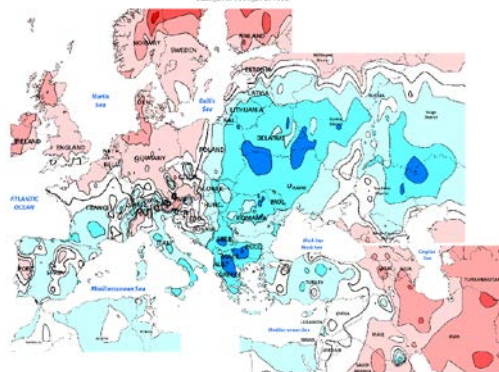


Climate Watch Advisory

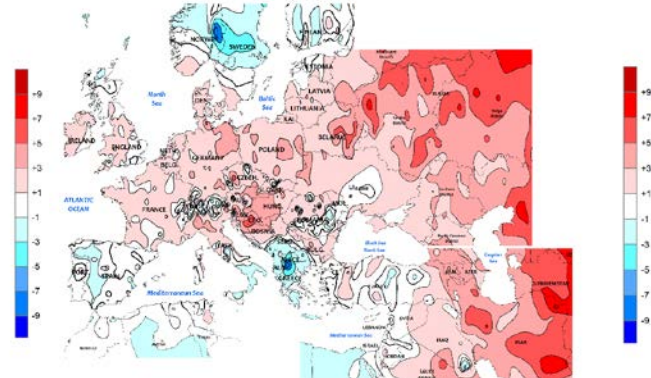
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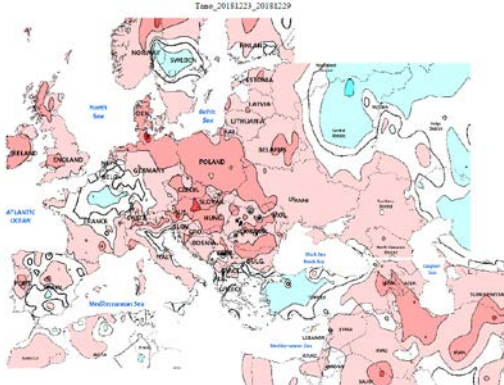
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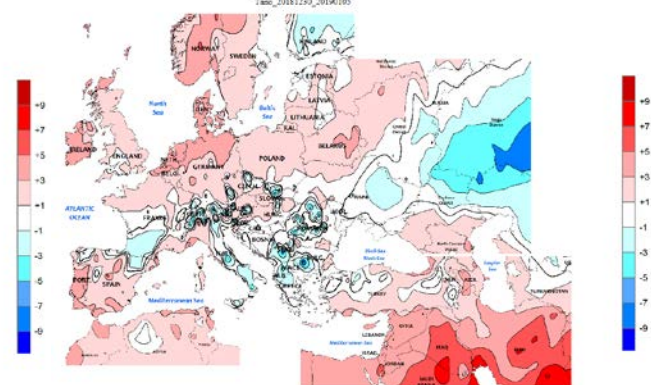
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23 – 29 December 2018
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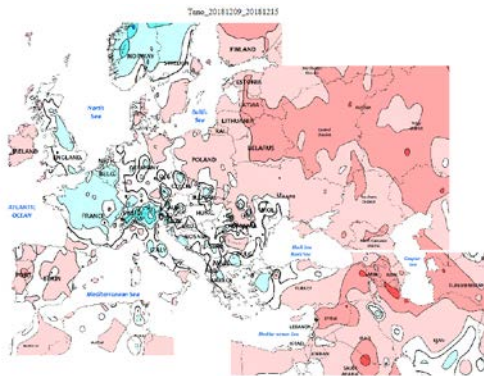


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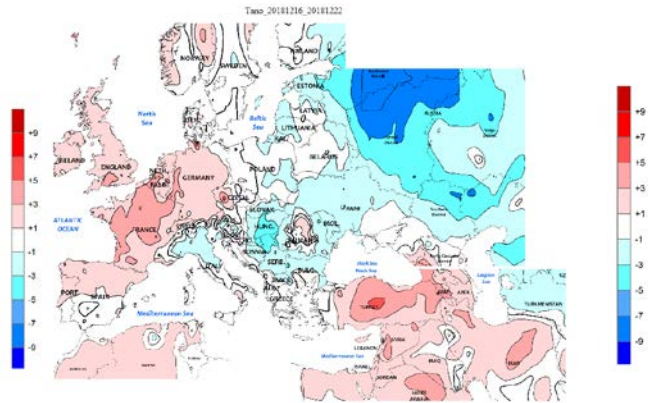


Climate Watch Advisory

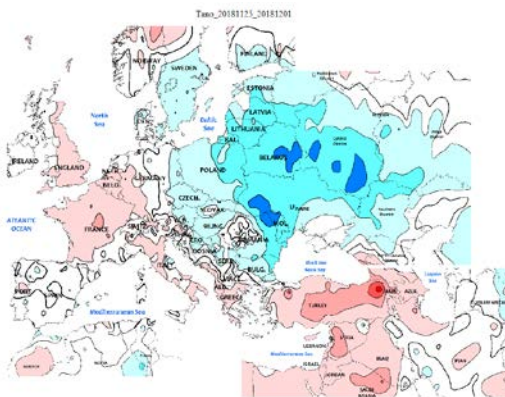
9 – 15 December 2018



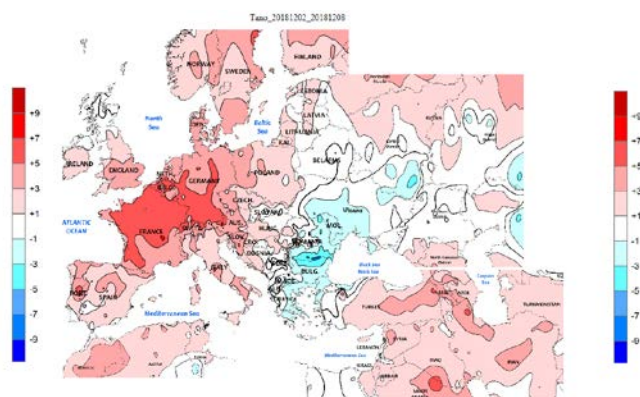
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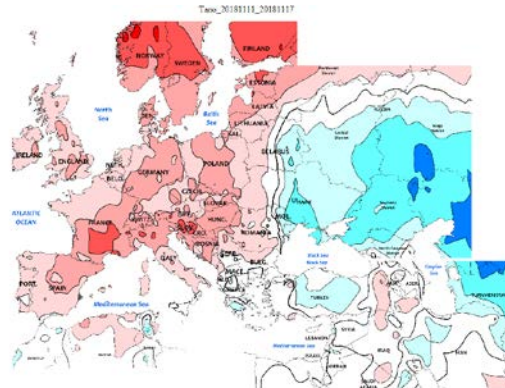
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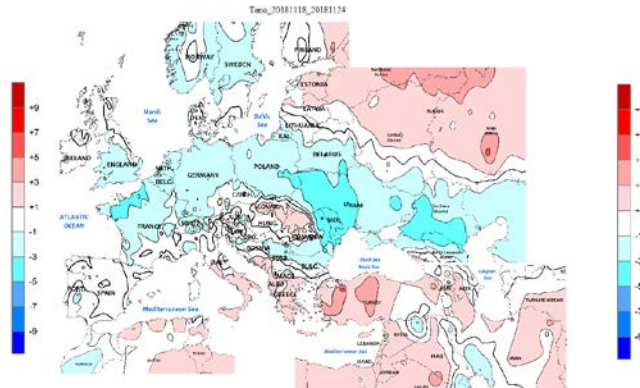
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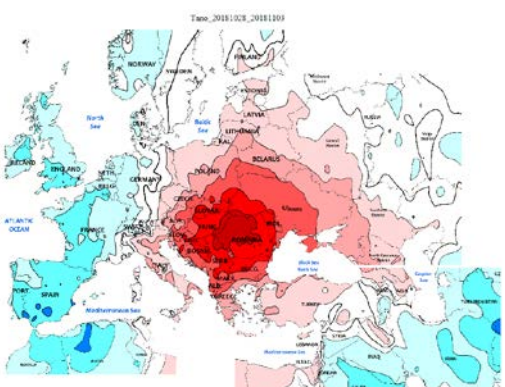
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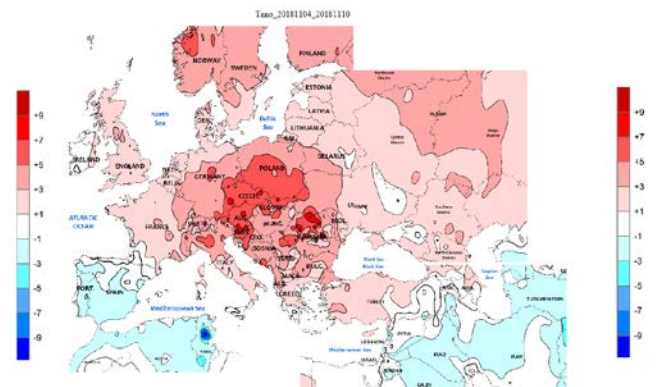
18 – 24 November 2018



28 October – 3 November 2018

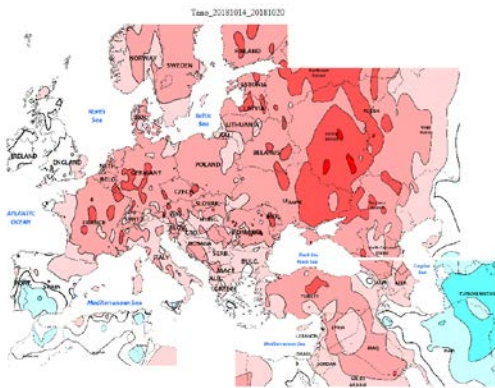


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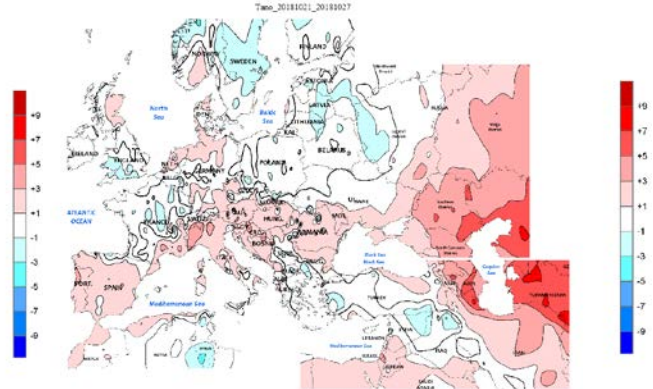


Climate Watch Advisory

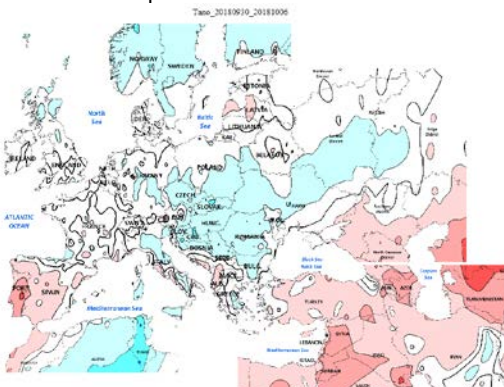
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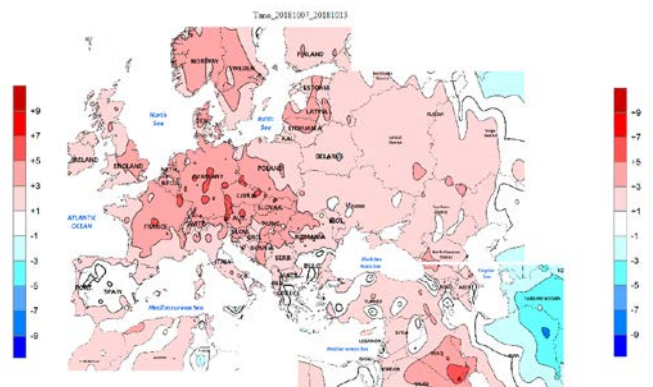
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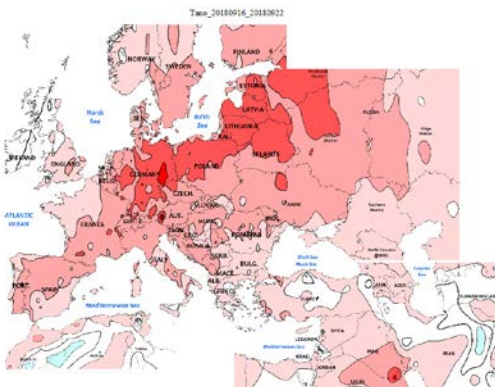
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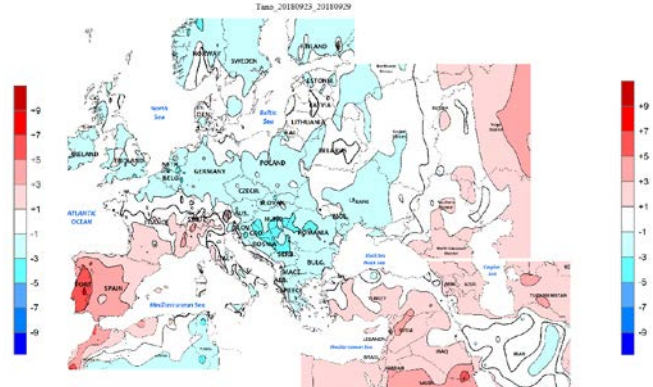
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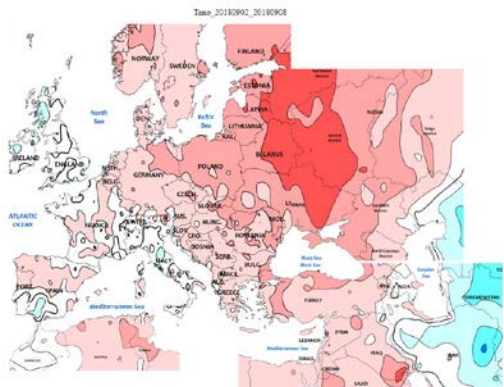
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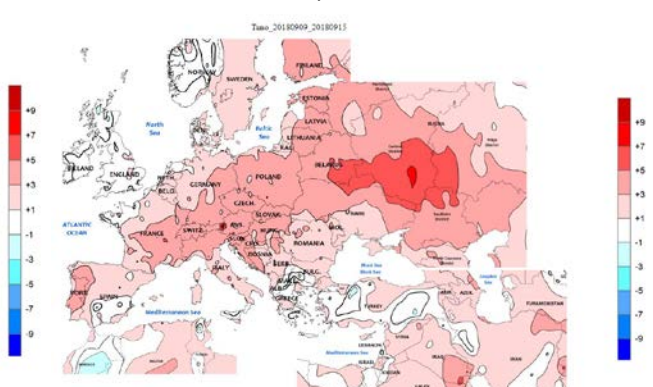
23 – 29 September 2018



02 - 08 September 2018



09 - 15 September 2018

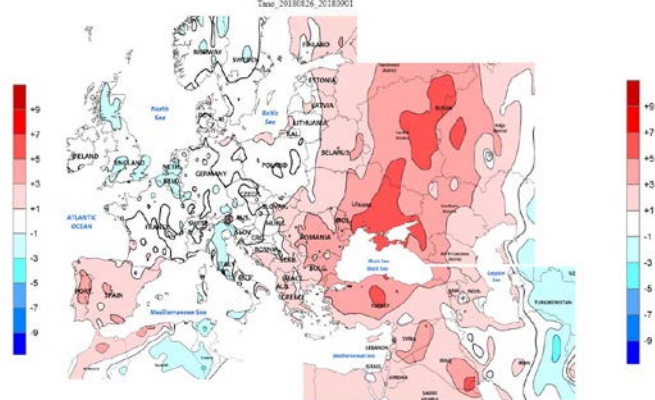


Climate Watch Advisory

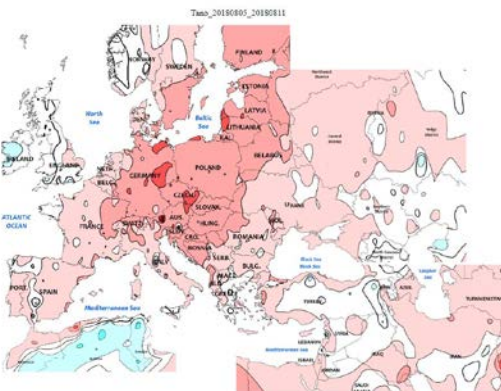
19 - 25 August 2018



26 August - 01 September 2018



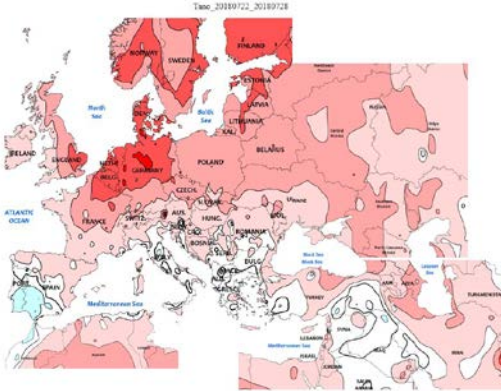
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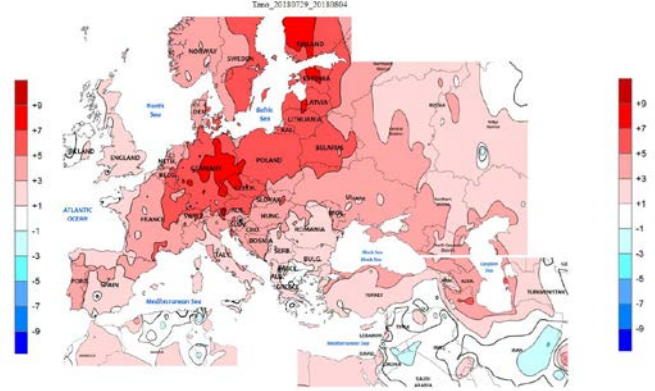
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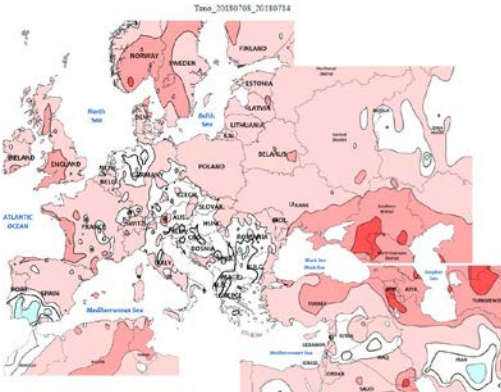
22 - 28 July 2018



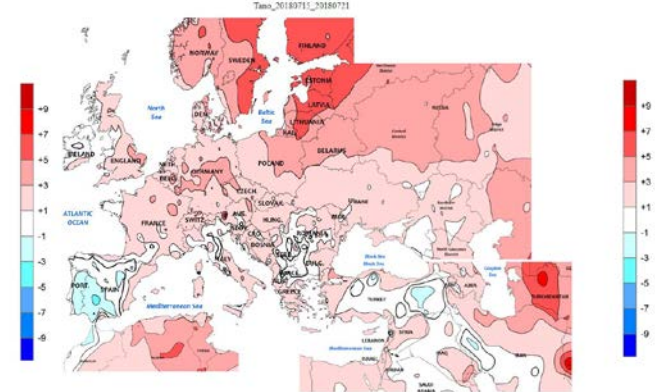
29 July - 04 August 2018



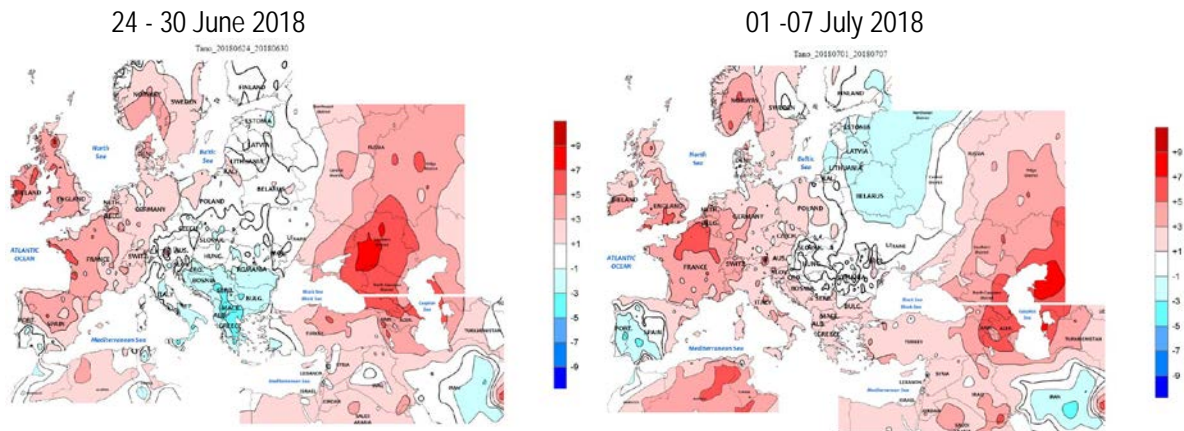
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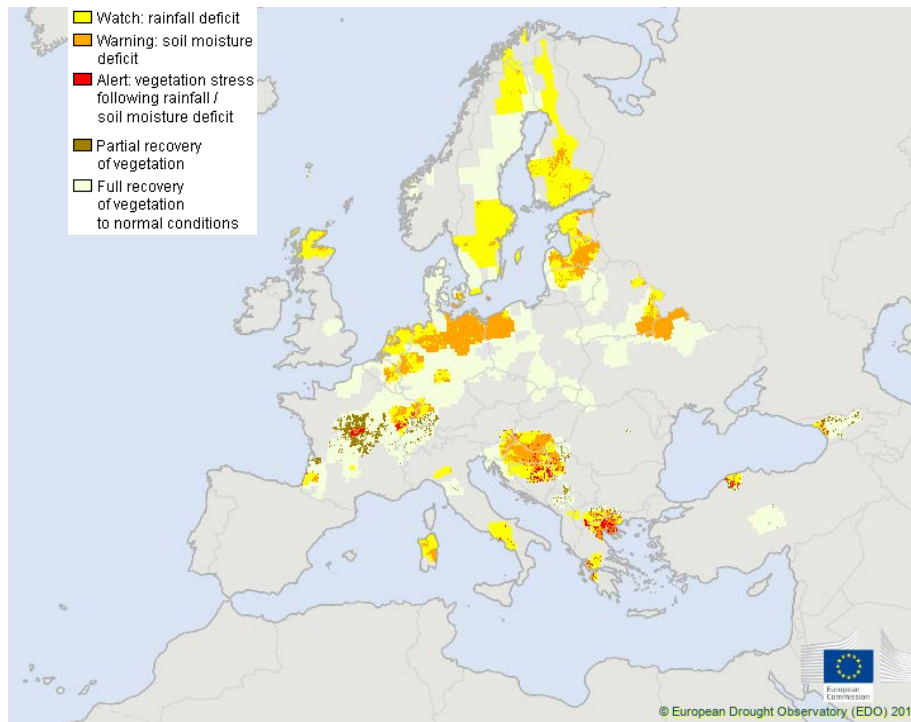
15 - 21 July 2018



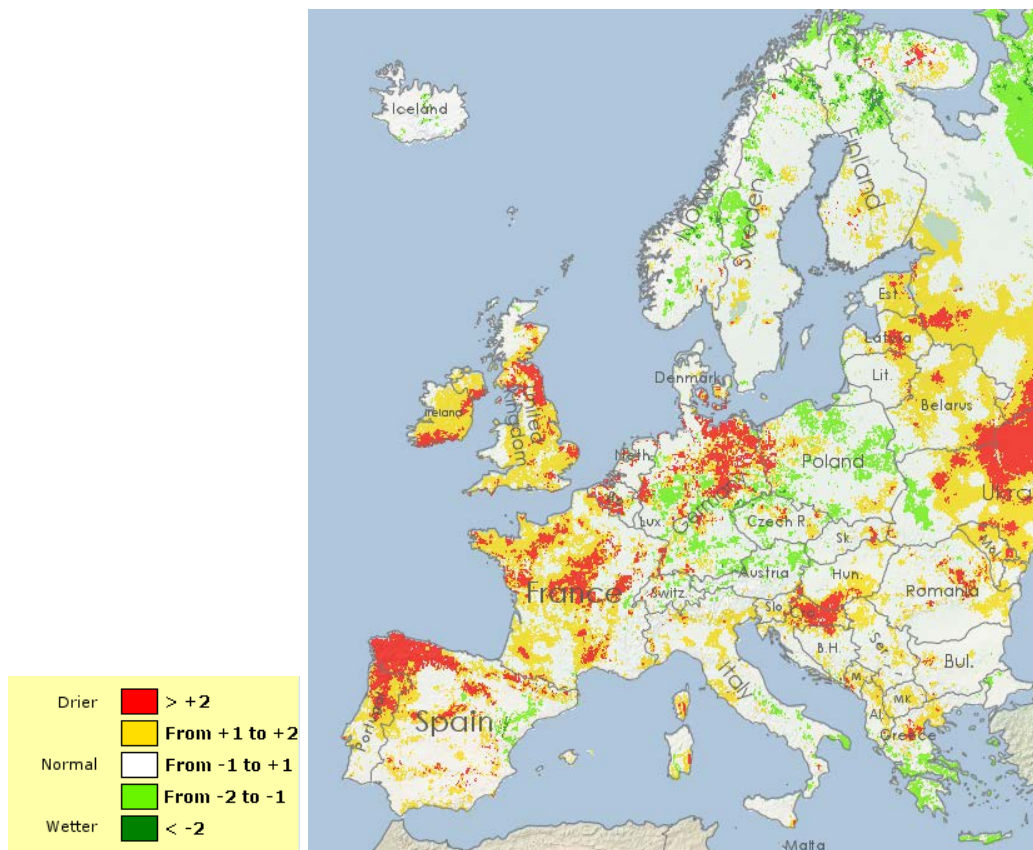
Climate Watch Advisory



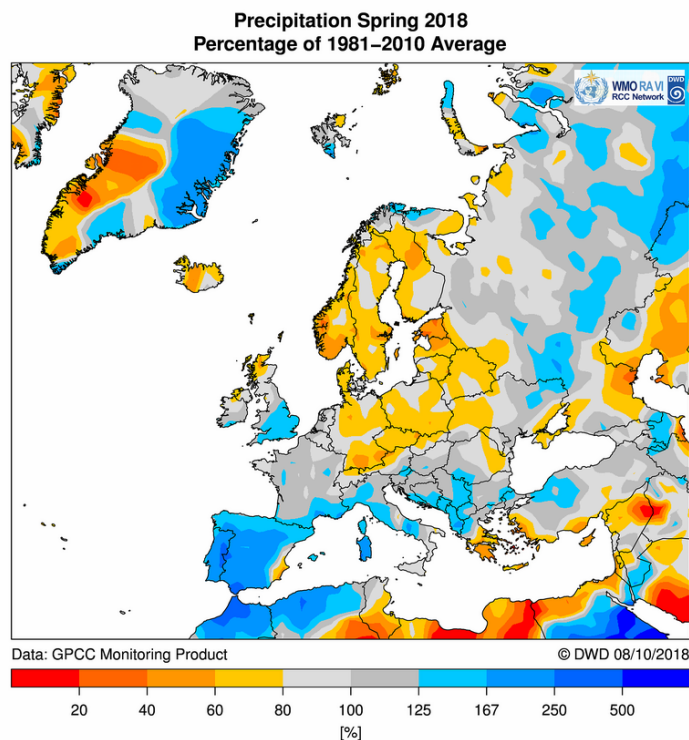
Climate Watch Advisory



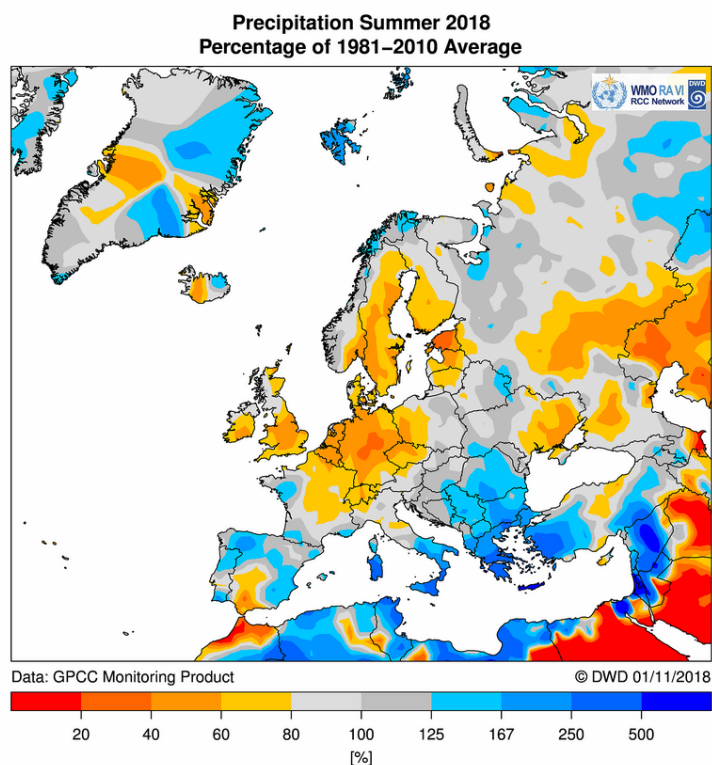
Combined Drought Indicator for Europe, 1 - 10 January 2019
 (Source: <http://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1000#>)



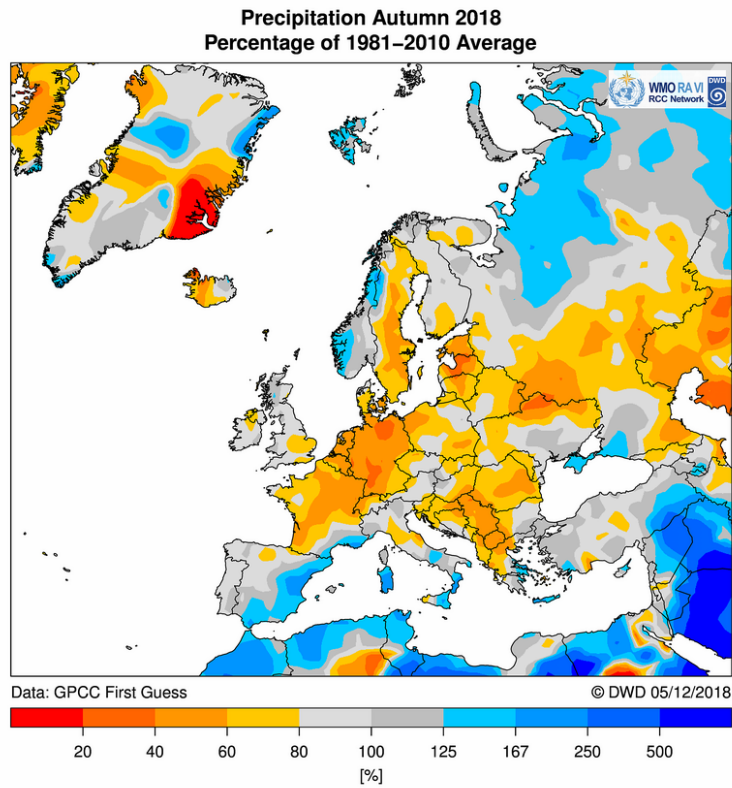
Soil Moisture Anomaly for Europe, 20 January 2019
 (Source: <http://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1111>)



Spring (March, April, May) 2018 precipitation anomalies as percentage of the long term mean (source: DWD RCC Node-CM, <https://www.dwd.de/rcc-cm>)



Summer (June, July, August) 2018 precipitation anomalies as percentage of the long term mean (source: DWD RCC Node-CM, <https://www.dwd.de/rcc-cm>)



Autumn (September, October, November) 2018 precipitation anomalies as percentage of the long term mean (source: DWD RCC Node-CM, <https://www.dwd.de/rcc-cm>)