

Guidance on cold wave, heavy precipitation

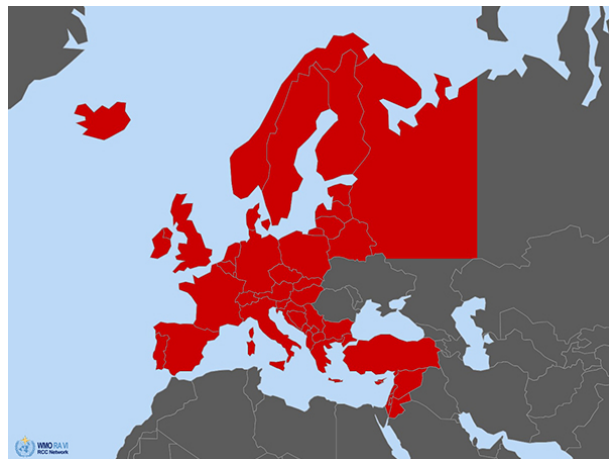
ID: 201808-u16

Area concerned:

Cold wave: Northern, Western, Central and Eastern Europe (Iceland, Norway, Denmark, Sweden, Finland, Ireland, United Kingdom, Netherlands, Belgium, Luxemburg, France, Germany, Switzerland, Austria, Poland, Czech Republic, Slovakia, Hungary, Slovenia, Belarus, Lithuania, Latvia, Estonia, northern European Russia)

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, Turkey, Cyprus, Lebanon, Syria, Israel, western Jordan)

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



Valid: Begin: on 15 January 2019

End: 28 January 2019

To: Climate Watch focal points of NMHSs: Iceland, Norway, Denmark, Sweden, Finland, Ireland, United Kingdom, Netherlands, Belgium, Luxemburg, France, Germany, Switzerland, Austria, Poland, Czech Republic, Slovakia, Hungary, Slovenia, Croatia, Bosnia-Herzegovina, Montenegro, Serbia, Albania, FYR of Macedonia, Greece, Bulgaria, Belarus, Lithuania, Latvia, Estonia, Russia, Turkey, Cyprus, Lebanon, Syria, Israel, Jordan, 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 **cold wave in Northern, Western, Central and Eastern Europe** for the next two weeks with possible extension to further two weeks. The probability for this development is estimated to more than 90%.

The cold wave will cause widespread frost even in lowlands (in Western Europe only temporarily), which might have dangerous impact on vegetation and health.

2. A continuation of a period of **above-normal precipitation in the Eastern Mediterranean subregion and northern parts of the Middle East** is expected for at least the next 1-2 weeks. In the second week only western parts of Turkey will be likely concerned. The probability is estimated to more than 90%.
3. The start of a period of **above-normal precipitation in the Western and Central Mediterranean subregion** (from Portugal to the Balkans/Greece) in the second week with possible extension to further two weeks. The probability for this development is estimated to 70- 90%.

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.

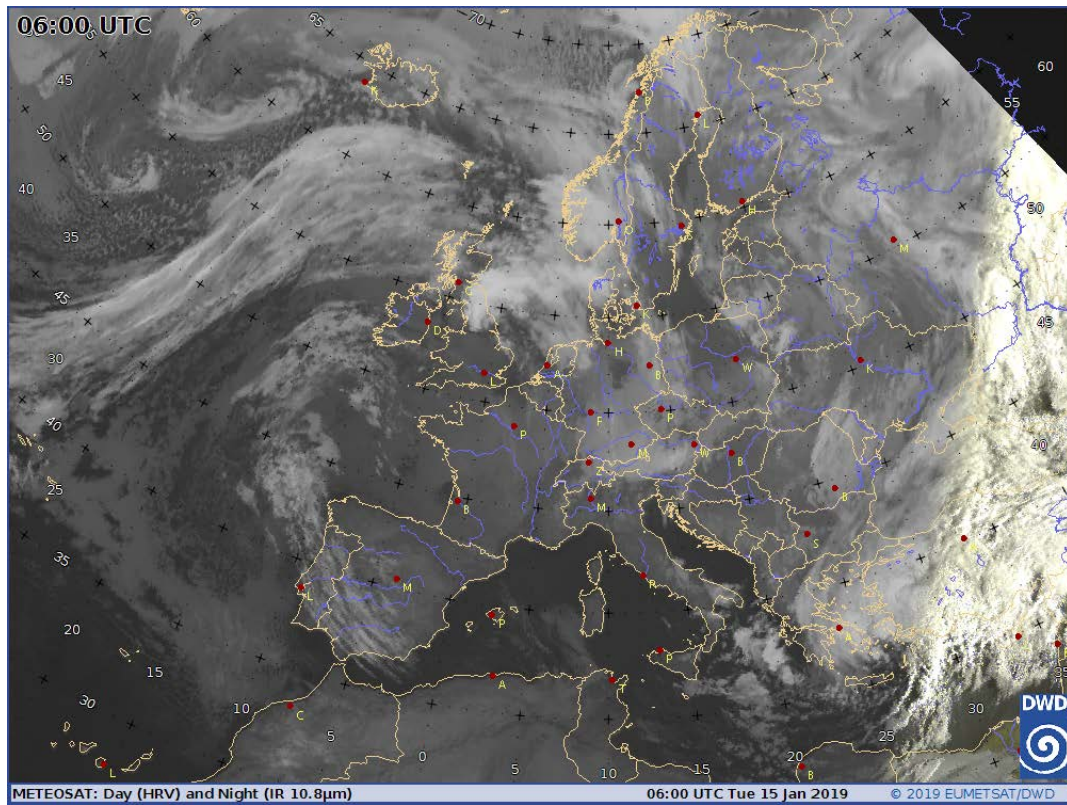
Please note that further information can be obtained from RCC Node-CM website (www.dwd.de/rcc-cm) concerning Climate Monitoring and from RCC Node-LRF websites (<http://seasonal.meteo.fr/en>, <http://neacc.meteoinfo.ru/forecast>) concerning Long-Range Forecast or by e-mail to rcc.cm@dwd.de or rcc-lrf-mf@meteo.fr.

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

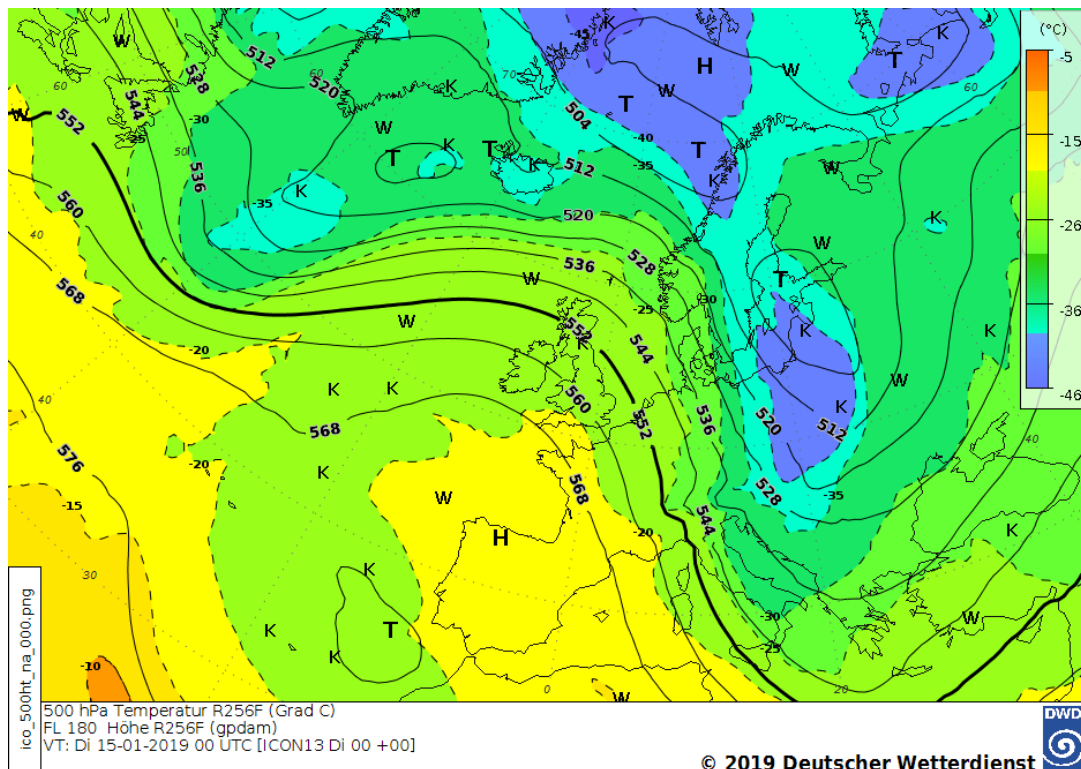
We will monitor the evolution of the anomaly, issue updates if significant change arise and close the advice when no clear signal can be detected in the forecasts.

On behalf of the RCC Node-CM Team

Climate Watch Advisory



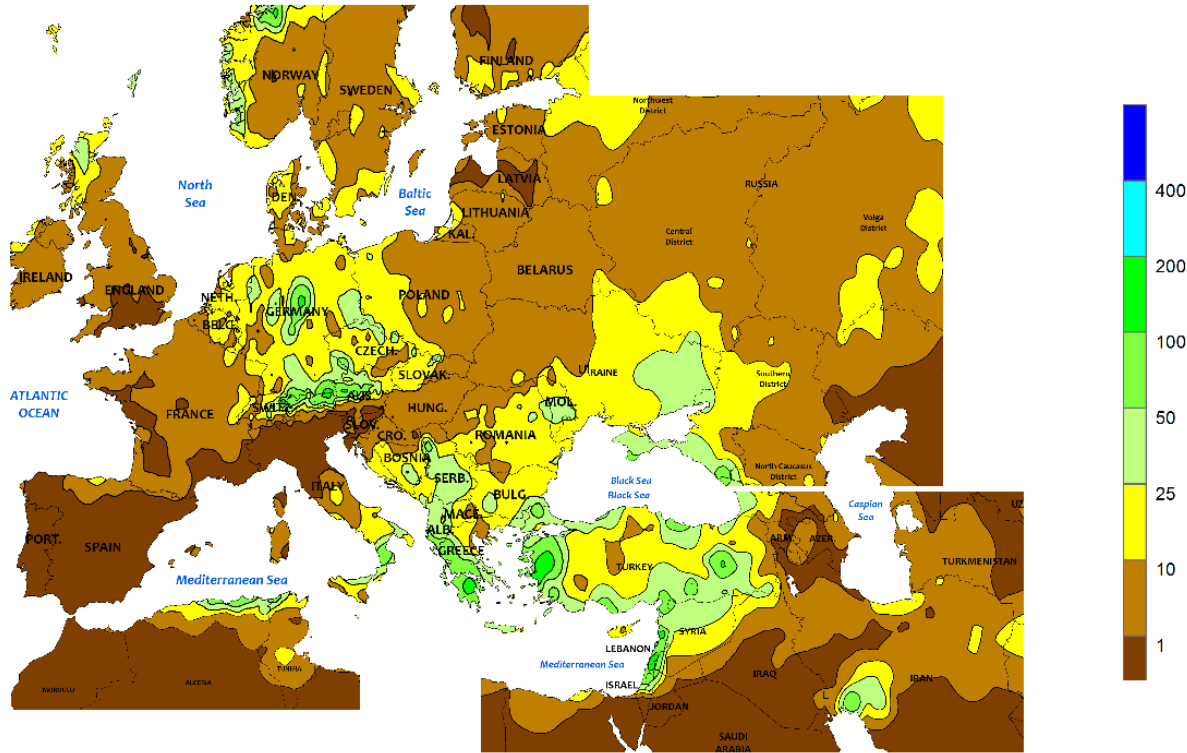
Meteosat satellite image 15 January 2019, 06 UTC. Source: DWD



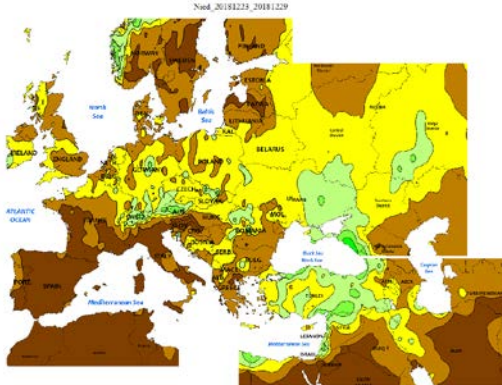
500 hPa chart, 15 January 2019, 00 UTC. Source: DWD

Climate Watch Advisory

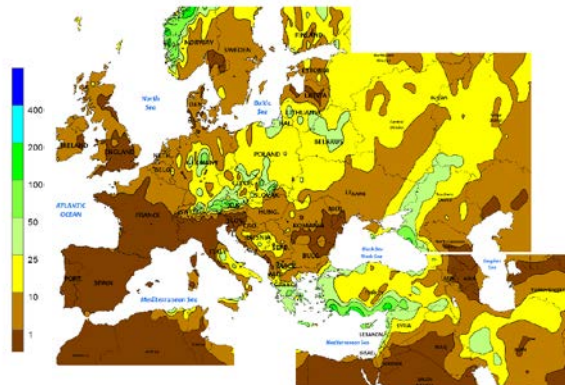
6 – 12 January 2019
Nied_20190106_20190112



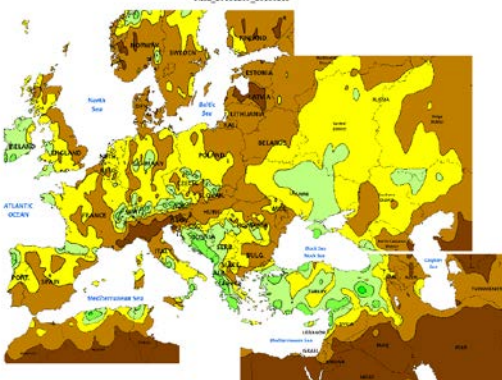
23 – 29 December 2018
Nied_20181223_20181229



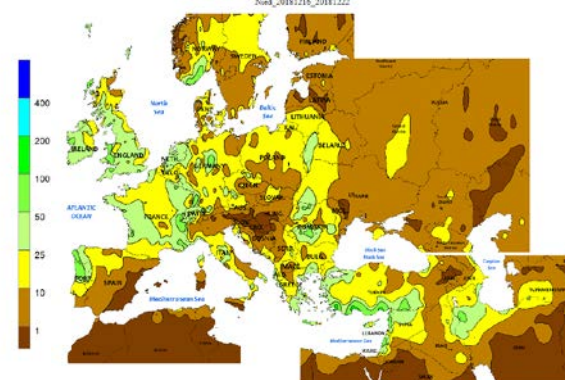
30 December 2018 – 5 January 2019
Nied_20181230_20190105



9 – 15 December 2018
Nied_20181209_20181215

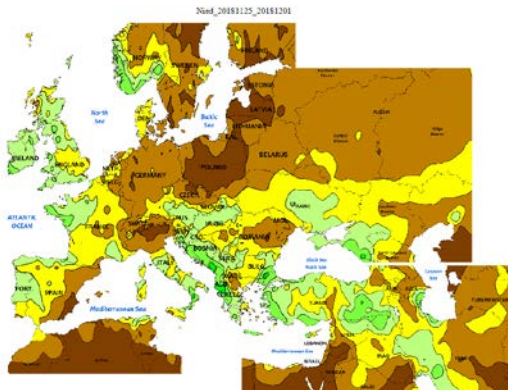


16 – 22 December 2018
Nied_20181216_20181222

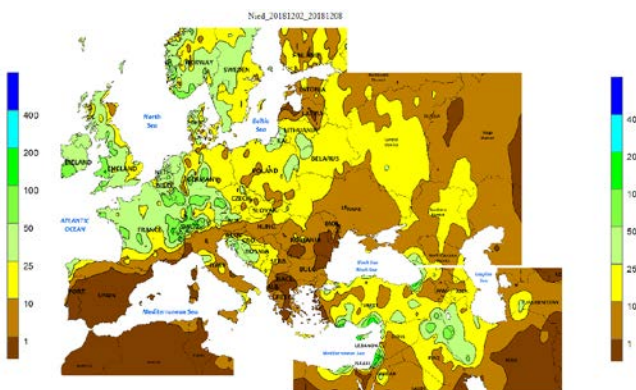


Climate Watch Advisory

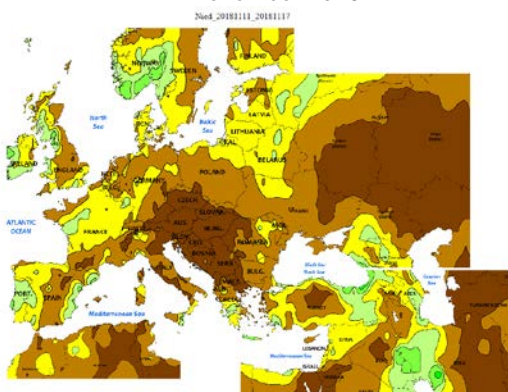
25 November – 1 December 2018



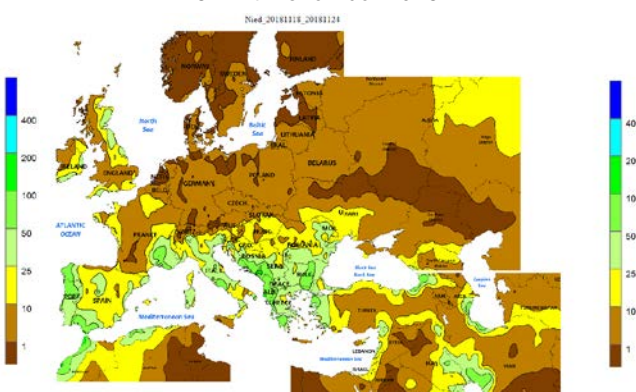
2 – 8 December 2018



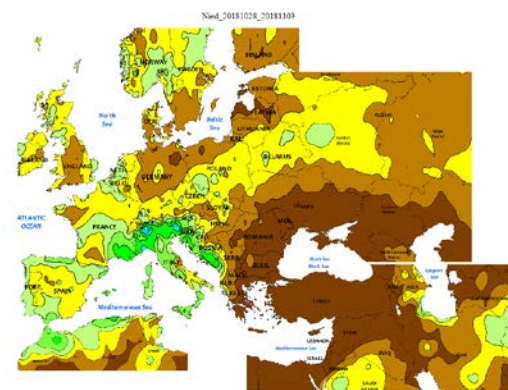
11 – 17 November 2018



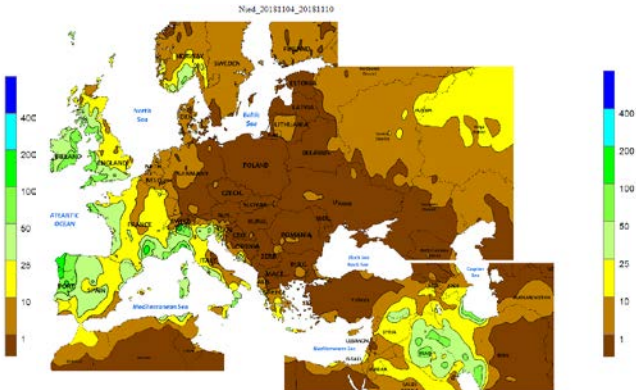
18 – 24 November 2018



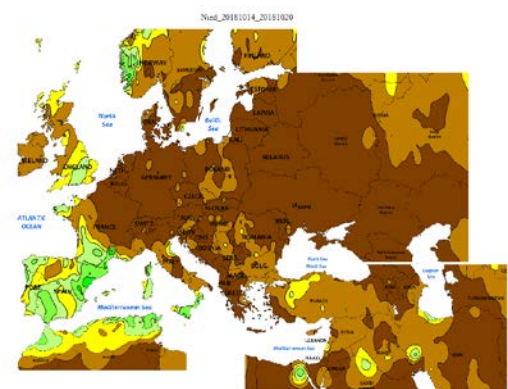
28 October – 3 November 2018



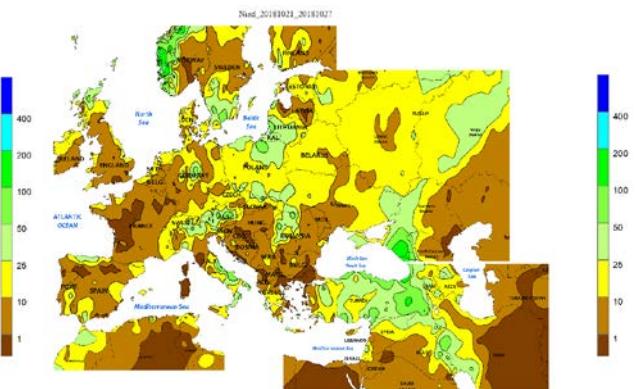
4 – 10 November 2018



14 – 20 October 2018

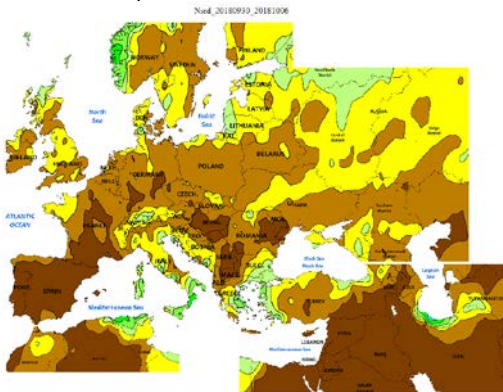


21 - 27 October 2018

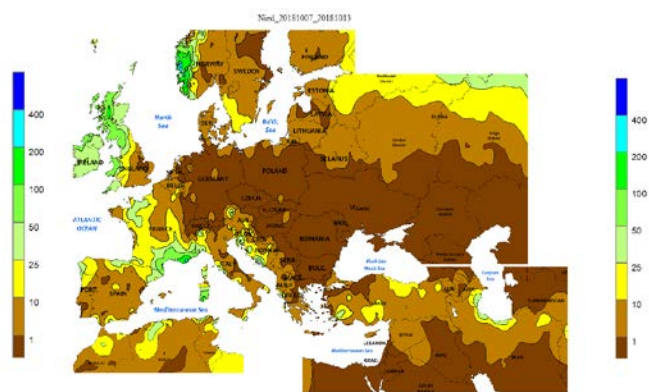


Climate Watch Advisory

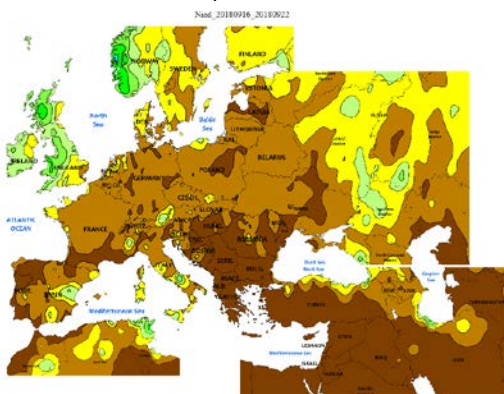
30 September – 06 October 2018



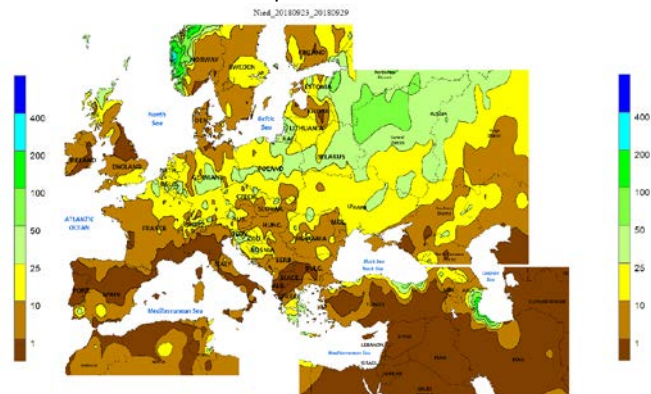
07 – 13 October 2018



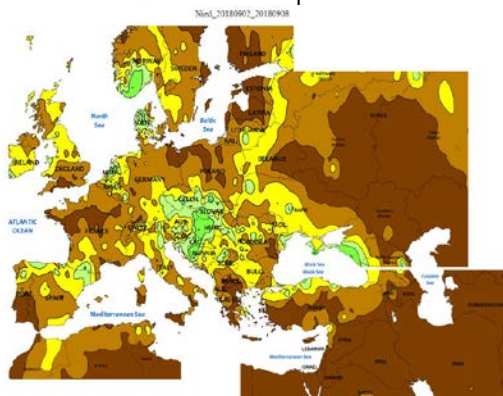
16 – 22 September 2018



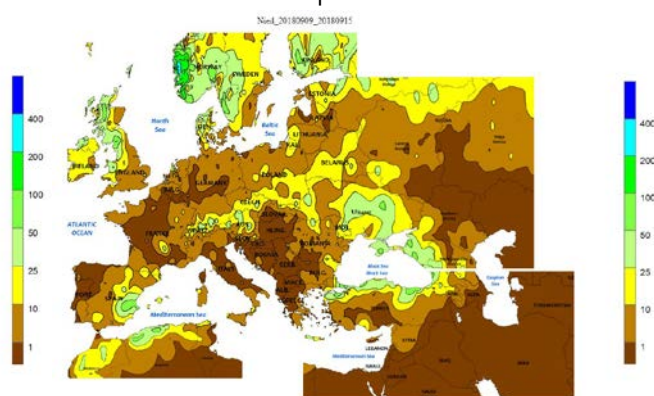
23 – 29 September 2018



02 - 08 September 2018

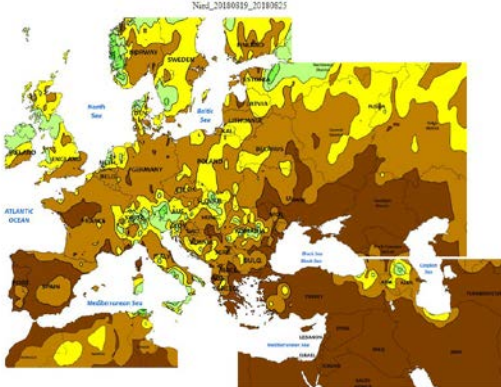


09 - 15 September 2018

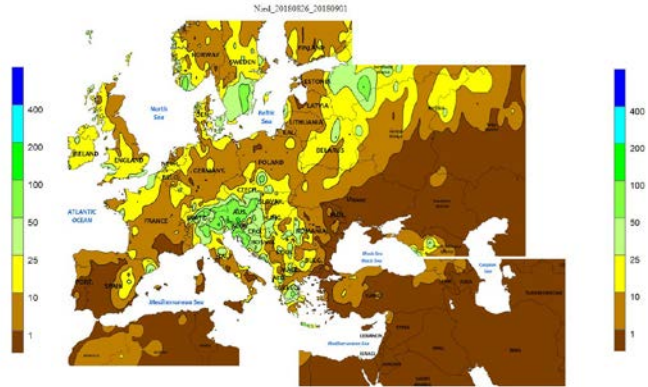


Climate Watch Advisory

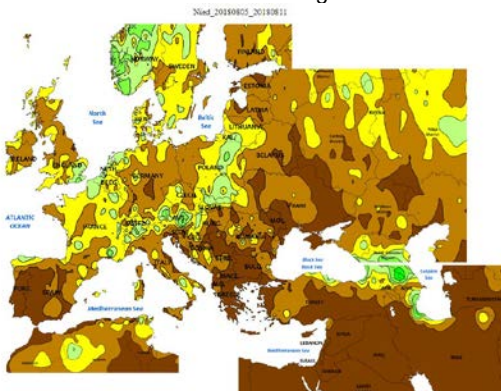
19 - 25 August 2018



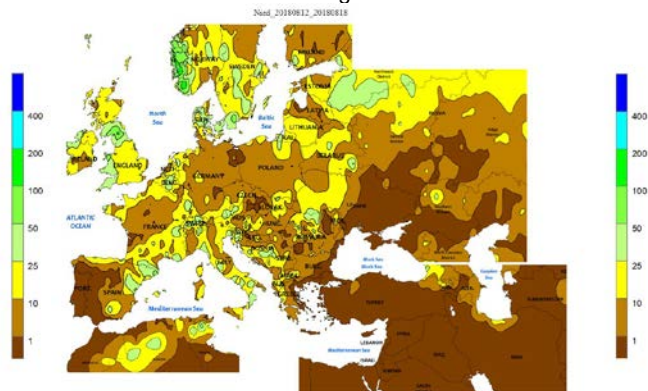
26 August - 01 September 2018



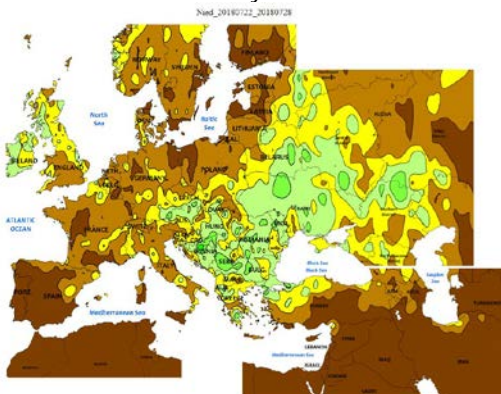
05 - 11 August 2018



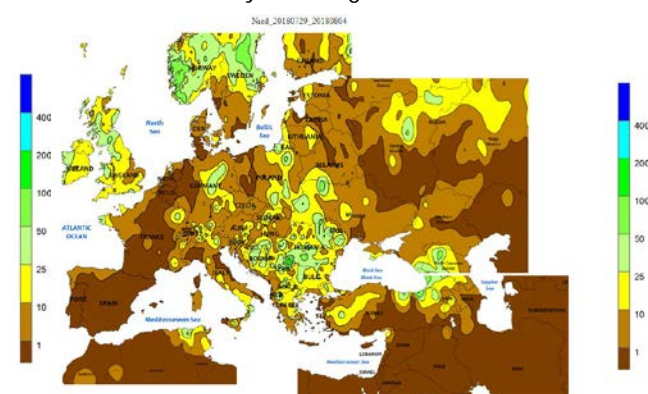
12 - 18 August 2018



22 - 28 July 2018

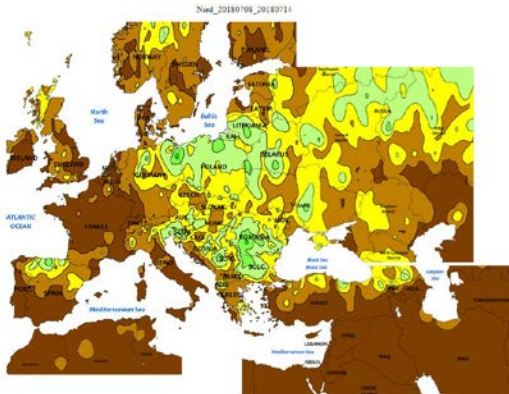


29 July - 04 August 2018

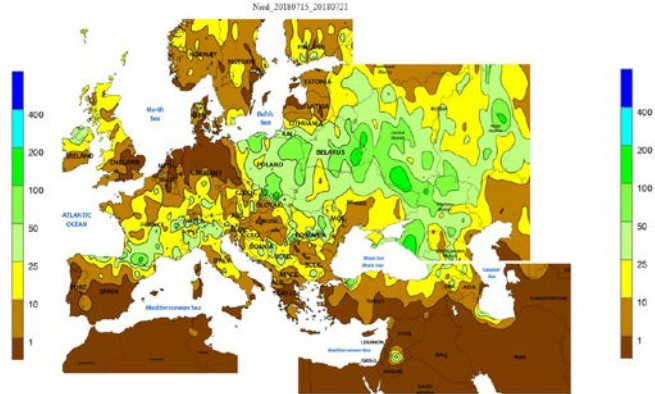


Climate Watch Advisory

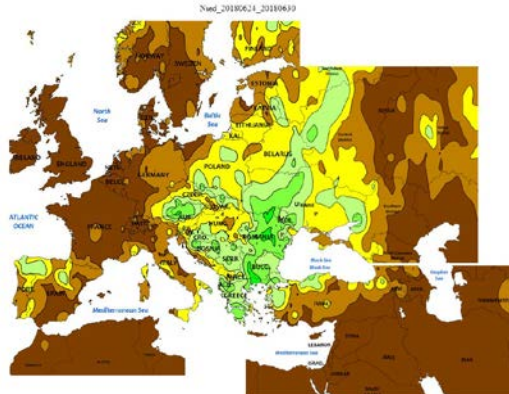
08 -14 July 2018



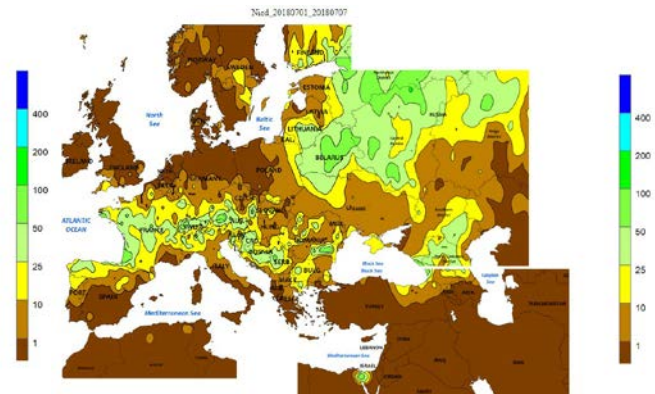
15 - 21 July 2018



24 - 30 June 2018



01 -07 July 2018

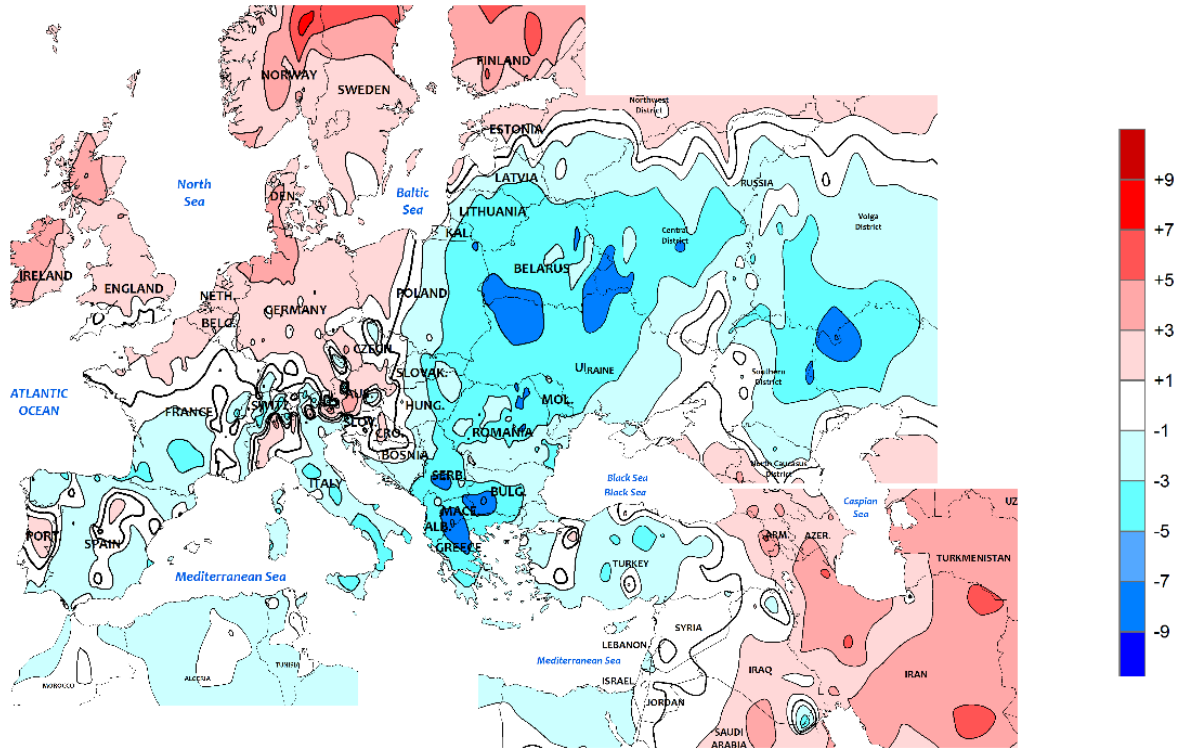


Weekly precipitation totals in mm for the last weeks (source: Climate Prediction Center, USA)

Climate Watch Advisory

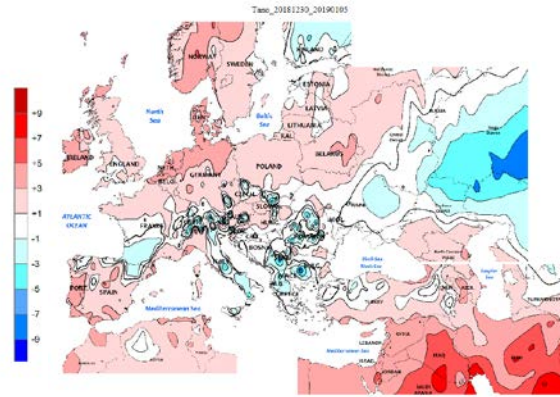
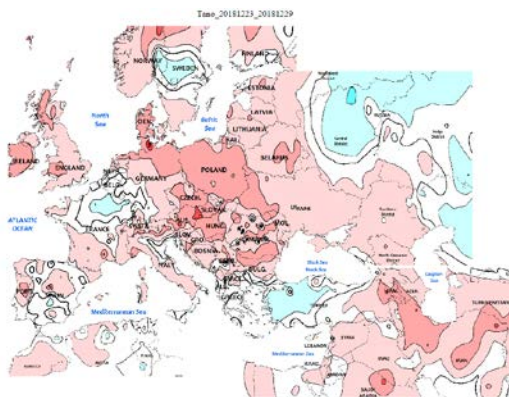
6 – 12 January 2019

Tano_20190106_20190112



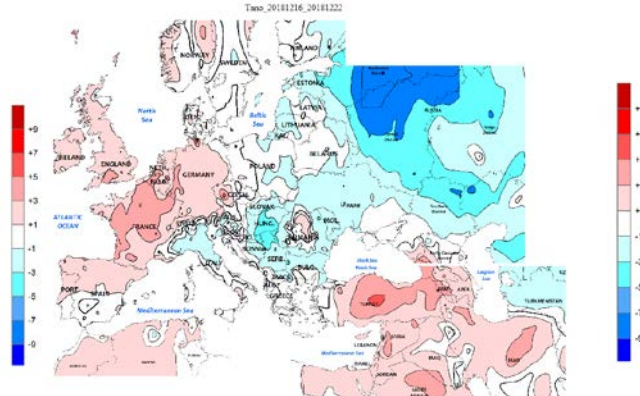
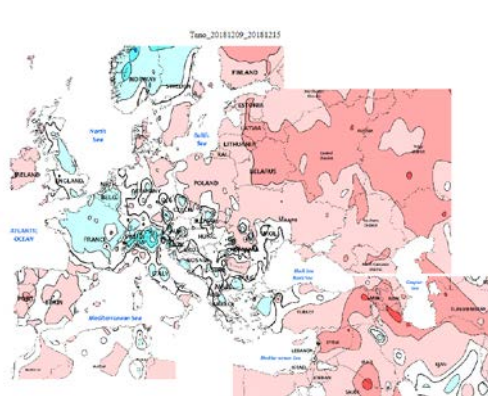
23 – 29 December 2018

30 December 2018 – 5 January 2019



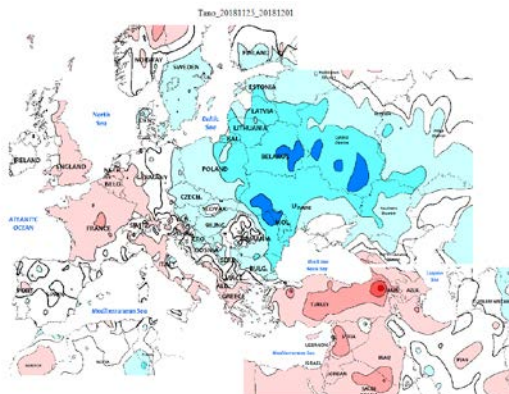
9 – 15 December 2018

16 – 22 December 2018

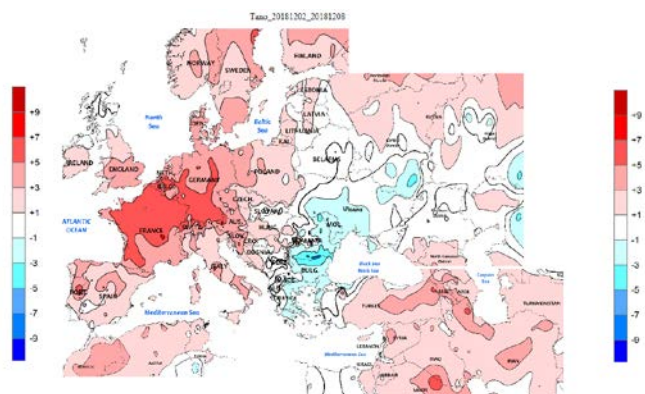


Climate Watch Advisory

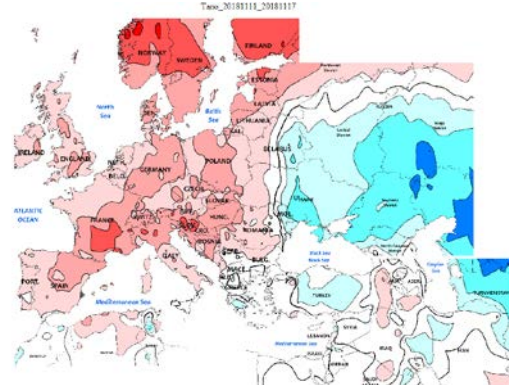
25 November – 1 December 2018



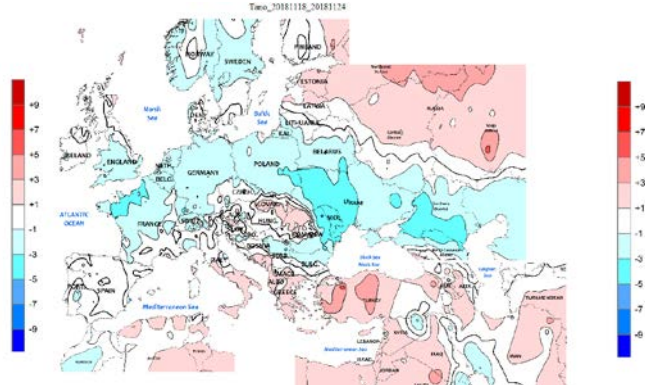
2 – 8 December 2018



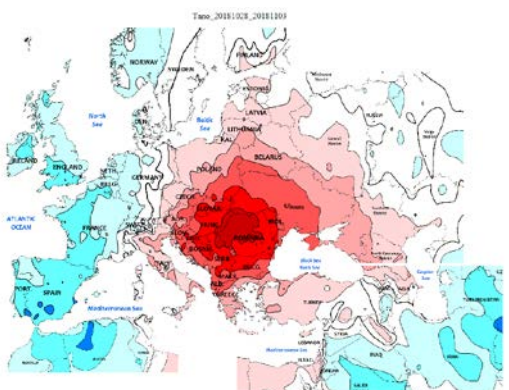
11 – 17 November 2018



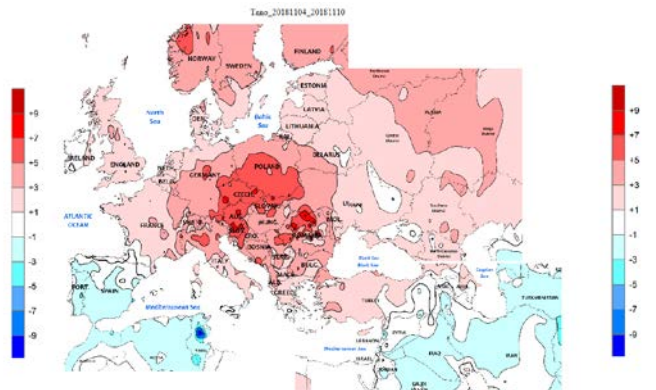
18 – 24 November 2018



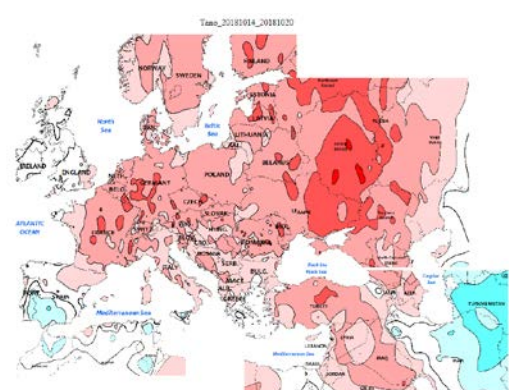
28 October – 3 November 2018



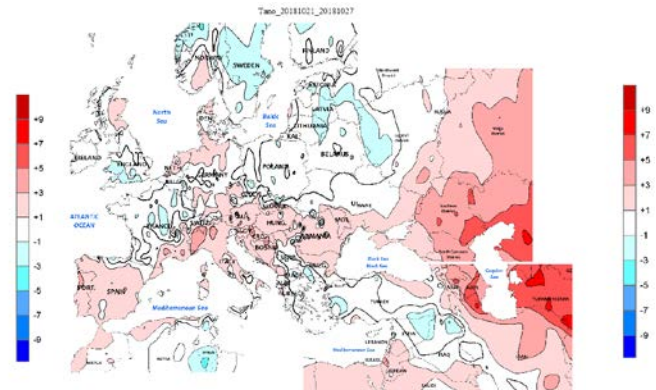
4 – 10 November 2018



14 – 20 October 2018

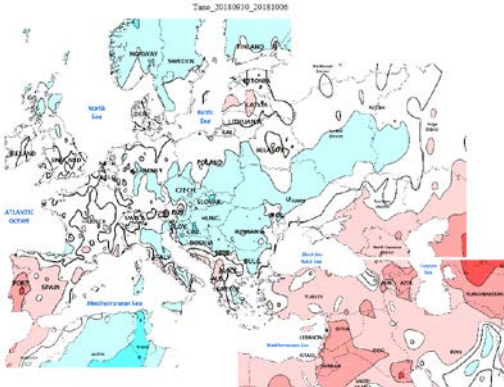


21 – 27 October 2018

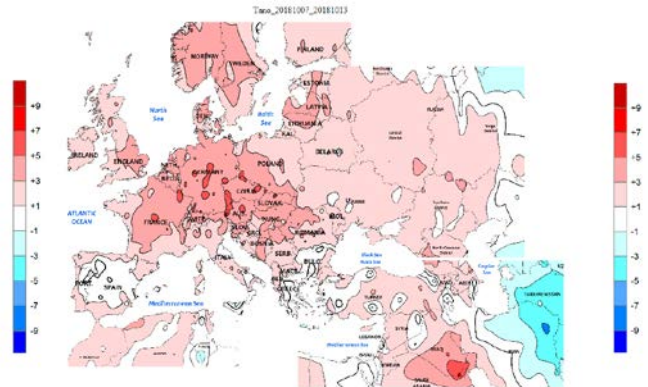


Climate Watch Advisory

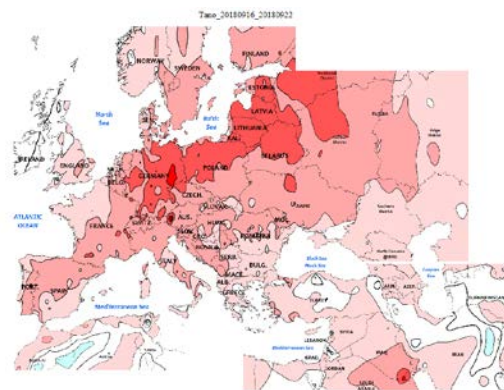
30 September – 06 October 2018



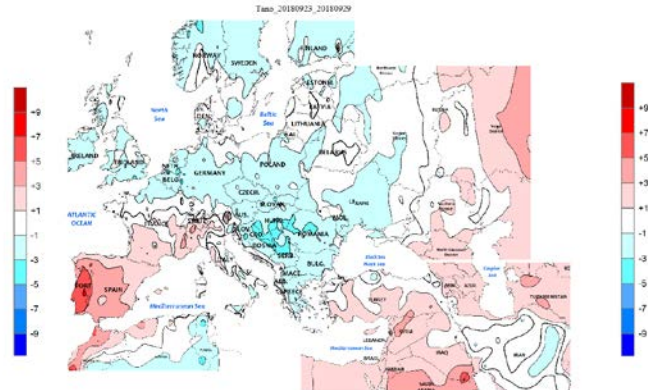
07 – 13 October 2018



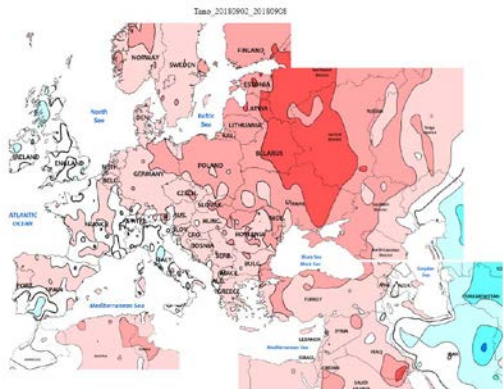
16 – 22 September 2018



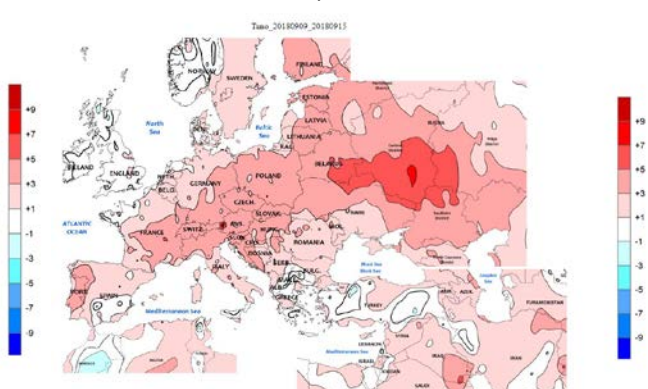
23 – 29 September 2018



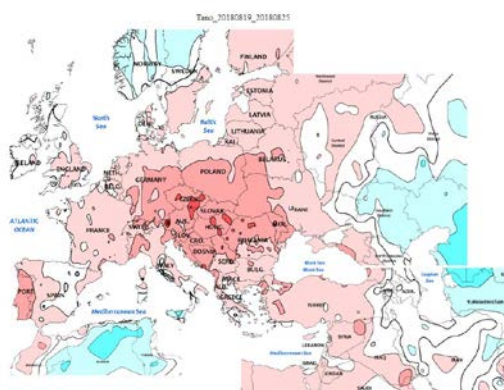
02 - 08 September 2018



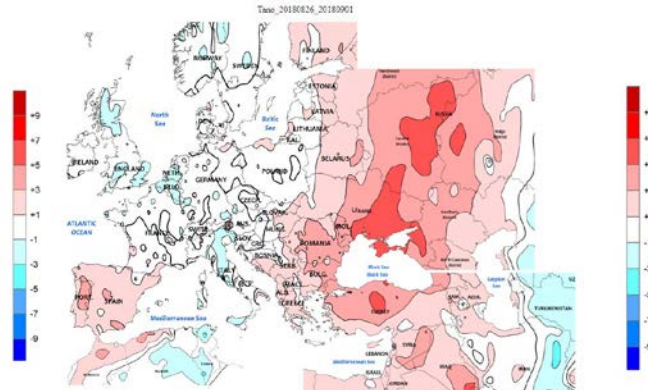
09 - 15 September 2018



19 - 25 August 2018

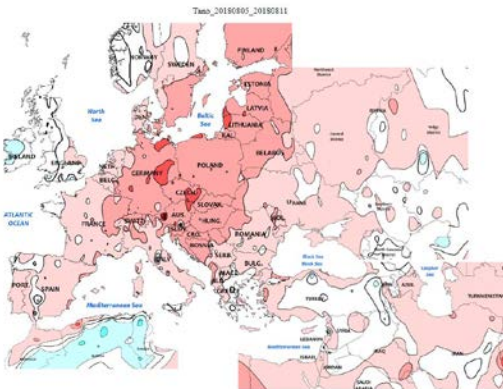


26 August - 01 September 2018



Climate Watch Advisory

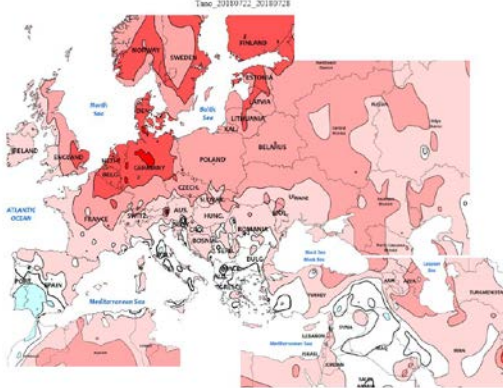
05 - 11 August 2018



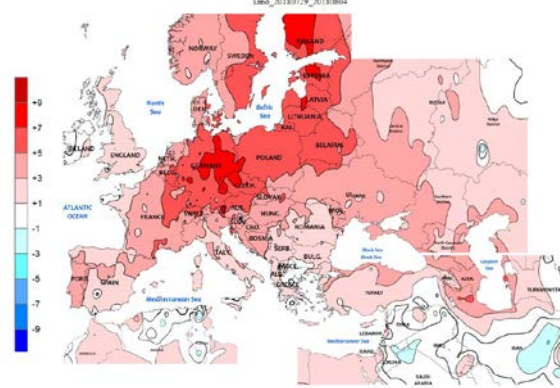
12 - 18 August 2018



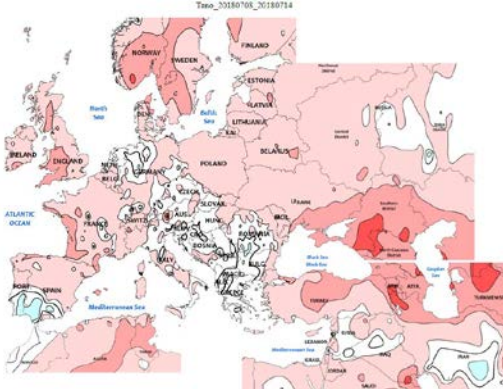
22 - 28 July 2018



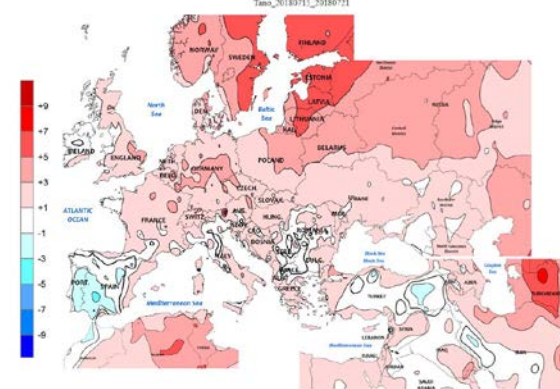
29 July - 04 August 2018



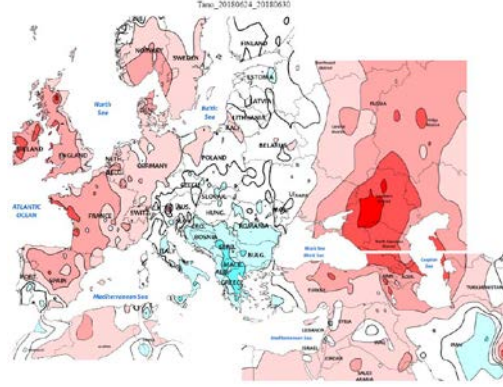
08 - 14 July 2018



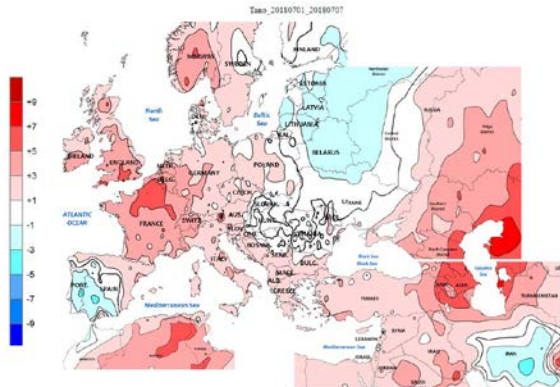
15 - 21 July 2018



24 - 30 June 2018

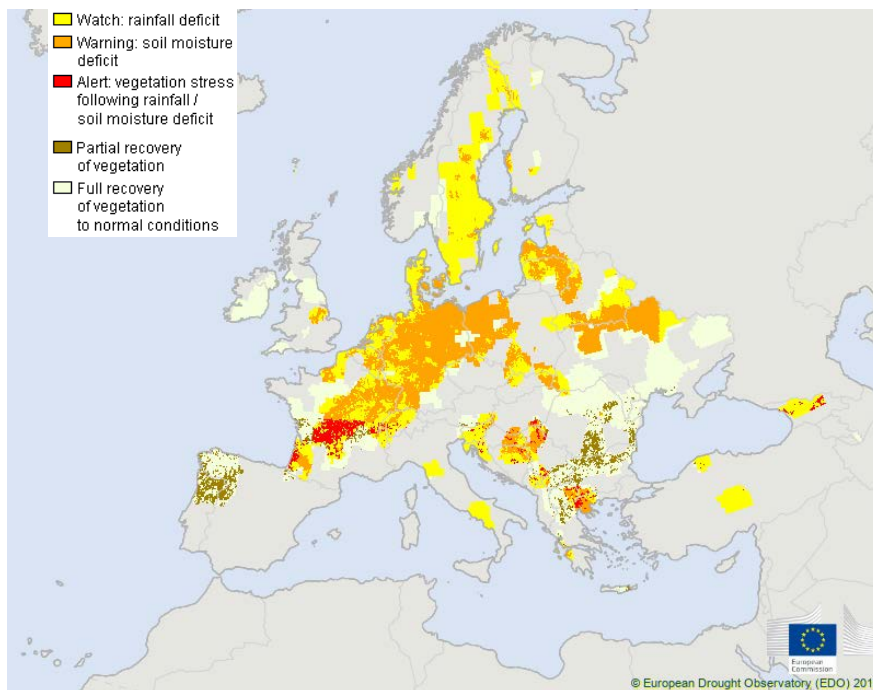


01 - 07 July 2018

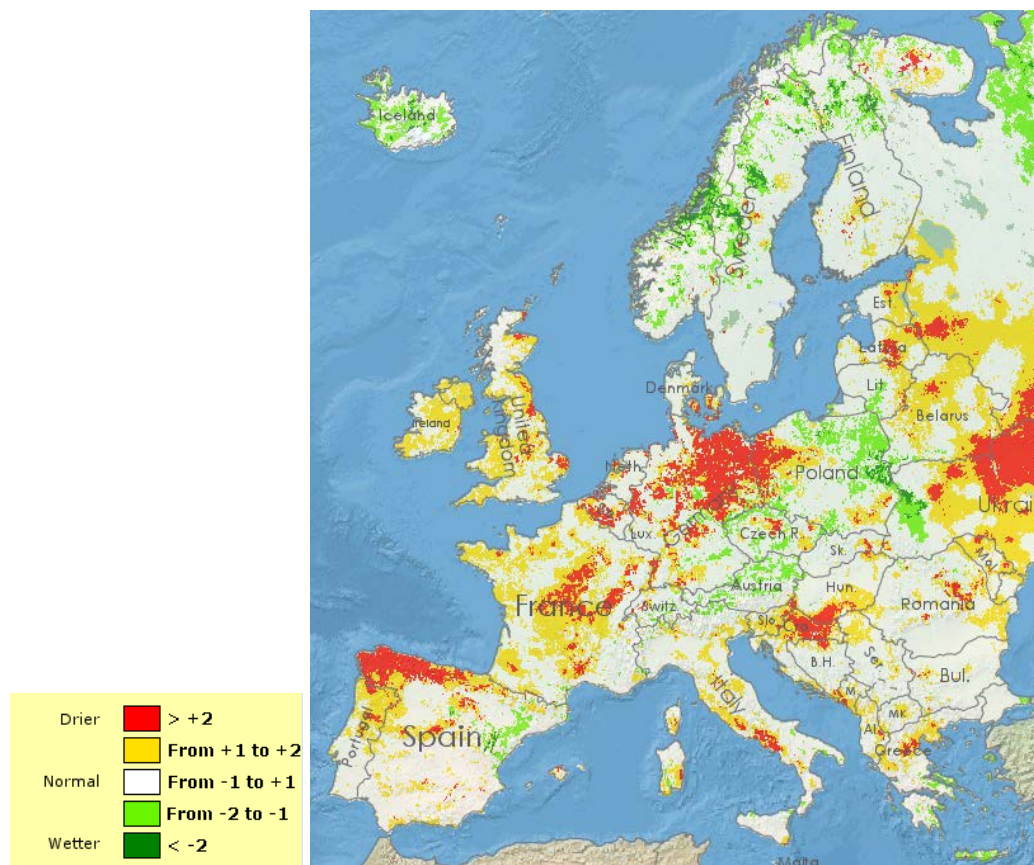


Weekly temperatures anomalies in °C for the last weeks (source: Climate Prediction Center, USA)

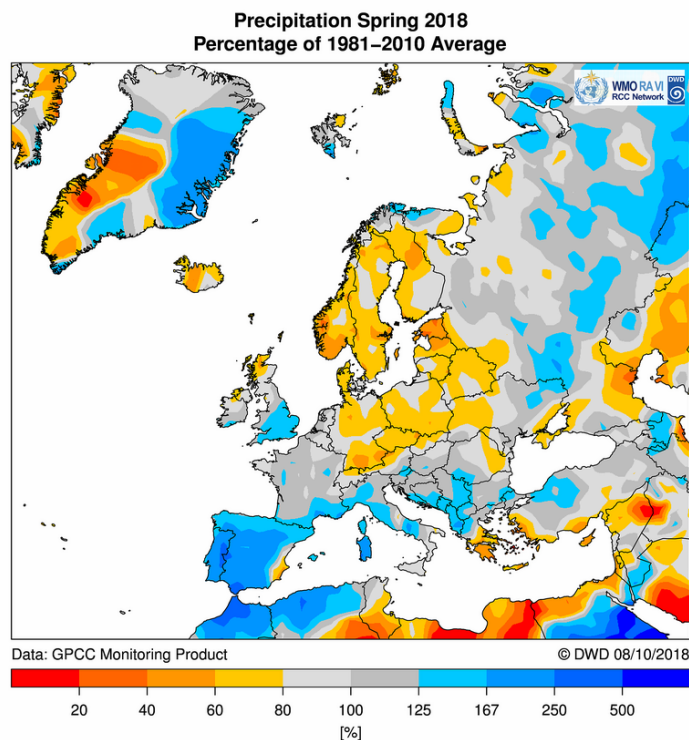
Climate Watch Advisory



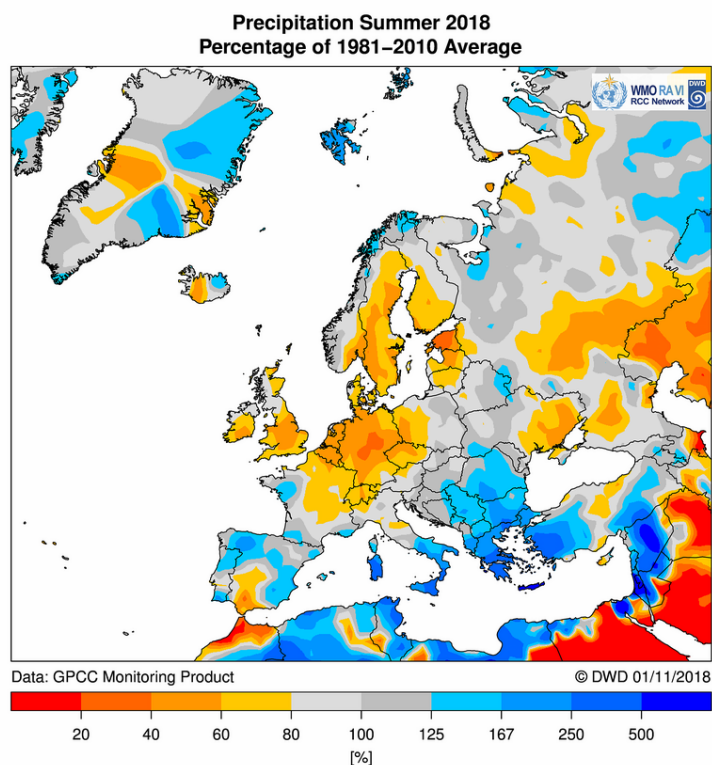
Combined Drought Indicator for Europe, 11 -20 December 2018
 (Source: <http://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1000#>)



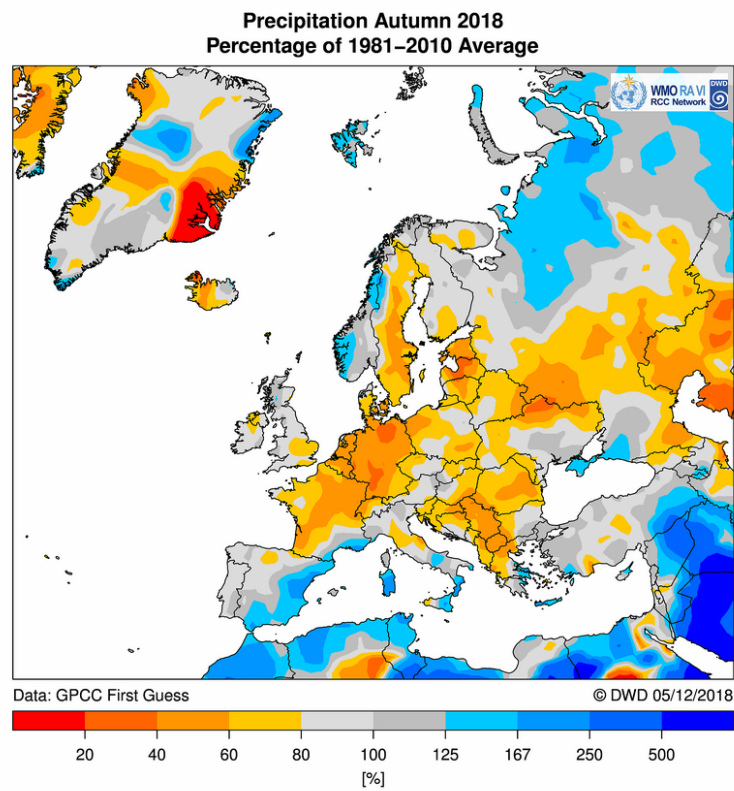
Soil Moisture Anomaly for Europe, 10 January 2019
 (Source: <http://edo.jrc.ec.europa.eu/edov2/php/index.php?id=1111>)



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>)