



European Commission
Agriculture and Rural Development



Climatic conditions in EU Spring update

Expert Group Cereal Management Committee

Giampiero Genovese, AGRI-C.1

Brussels, 08 May 2008



Spring conditions



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Agriculture and Rural Development

Temperatures

Precipitations

Water Balance \approx water reserves

Effects on crops: dev. stage, post wintering conditions including late frost risks

Data from weather models (ECMWF-MeteoFrance) and observed data sets. Post-processing from JRC



Overall picture

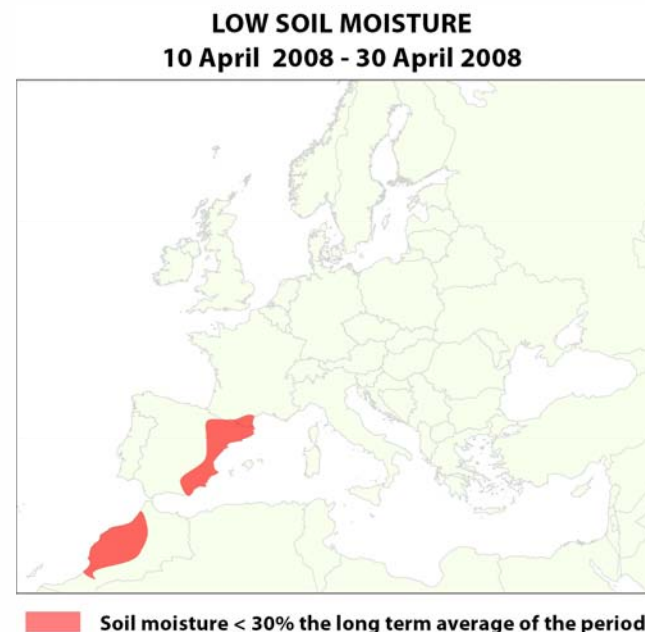
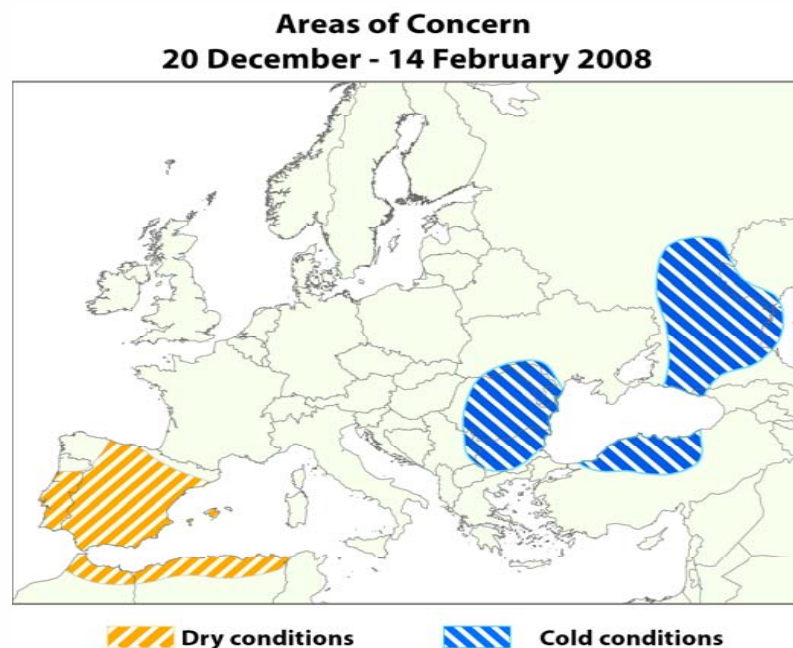
- Crops under normal conditions after a mild winter particularly for central and eastern Europe with advanced development.
- Mild winter: Similar conditions occurred in 1975, 1998, and warmer conditions occurred only in 1990 and 2007
- Brief but harsh frost at the end of March in central EU (e.g.: Germany, Poland, Sweden).
- Seasonal precipitations – except Bulgaria wetter, Ukraine drier / Iberian Peninsula and southern France now recovering from dry conditions



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**Prolonged dry period in the Iberian Peninsula.
Cooler than 2007 along Danube Basin and Black Sea areas**

**Promising yield expectations for Europe.
Eastern Spain and Morocco under dry conditions.**



TEMPERATURE SUM

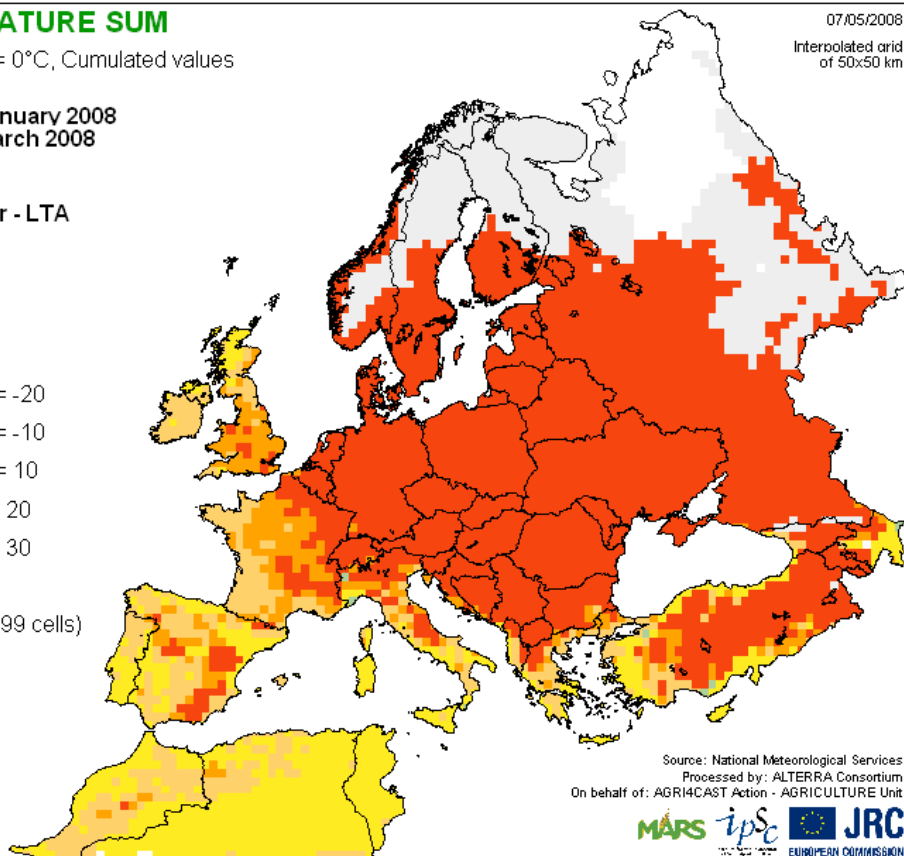
Base Temp = 0°C, Cumulated values

from : 01 January 2008
to : 31 March 2008

Deviation:
Current year - LTA

Units: %

- > -30 - <= -20
- > -20 - <= -10
- > -10 - <= 10
- > 10 - <= 20
- > 20 - <= 30
- > 30
- Infinite (799 cells)



Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: AGRHCAST Action - AGRICULTURE Unit



07/05/2008
Interpolated grid
of 50x50 km

TEMPERATURE SUM

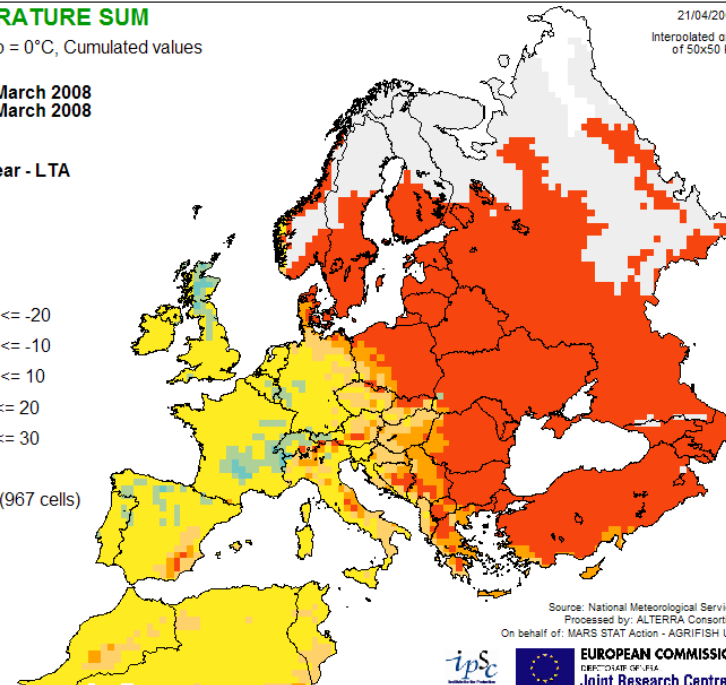
Base Temp = 0°C, Cumulated values

from : 01 March 2008
to : 31 March 2008

Deviation:
Current year - LTA

Units: %

- > -30 - <= -20
- > -20 - <= -10
- > -10 - <= 10
- > 10 - <= 20
- > 20 - <= 30
- > 30
- Infinite (967 cells)



Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: MARS STAT Action - AGRIFISH Unit



21/04/2008
Interpolated grid
of 50x50 km

TEMPERATURE SUM

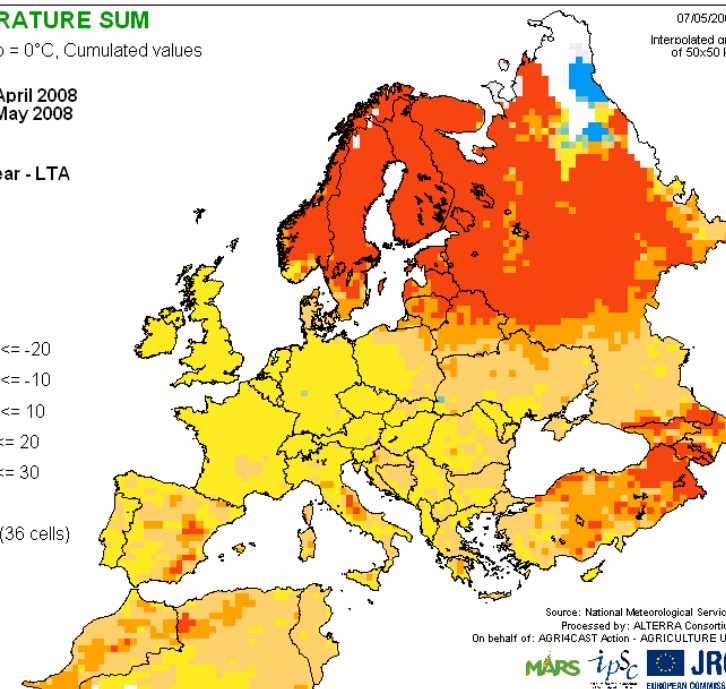
Base Temp = 0°C, Cumulated values

from : 01 April 2008
to : 05 May 2008

Deviation:
Current year - LTA

Units: %

- <= -30
- > -30 - <= -20
- > -20 - <= -10
- > -10 - <= 10
- > 10 - <= 20
- > 20 - <= 30
- > 30
- Infinite (36 cells)



Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: AGRHCAST Action - AGRICULTURE Unit



07/05/2008
Interpolated grid
of 50x50 km

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PRECIPITATION

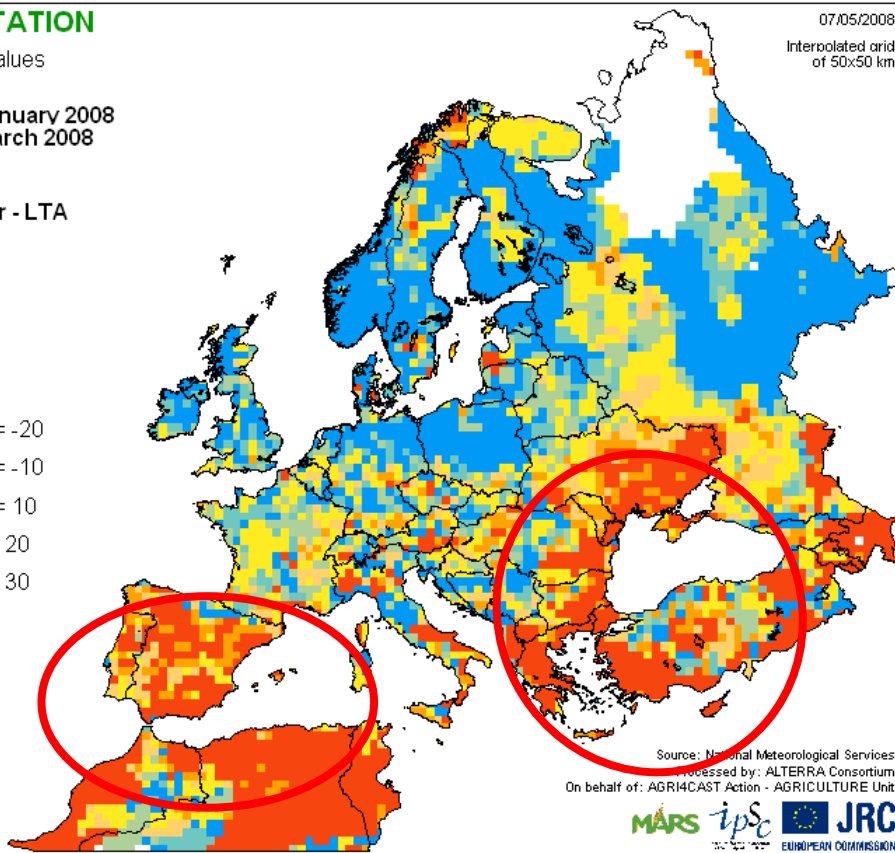
Cumulated values

from : 01 January 2008
to : 31 March 2008

Deviation:
Current year - LTA

Units: %

- <= -30
- > -30 - <= -20
- > -20 - <= -10
- > -10 - <= 10
- > 10 - <= 20
- > 20 - <= 30
- > 30



07/05/2008
Interpolated grid
of 50x50 km

Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: AGR4CAST Action - AGRICULTURE Unit
MARS ipsc JRC
EUROPEAN COMMISSION

PRECIPITATION

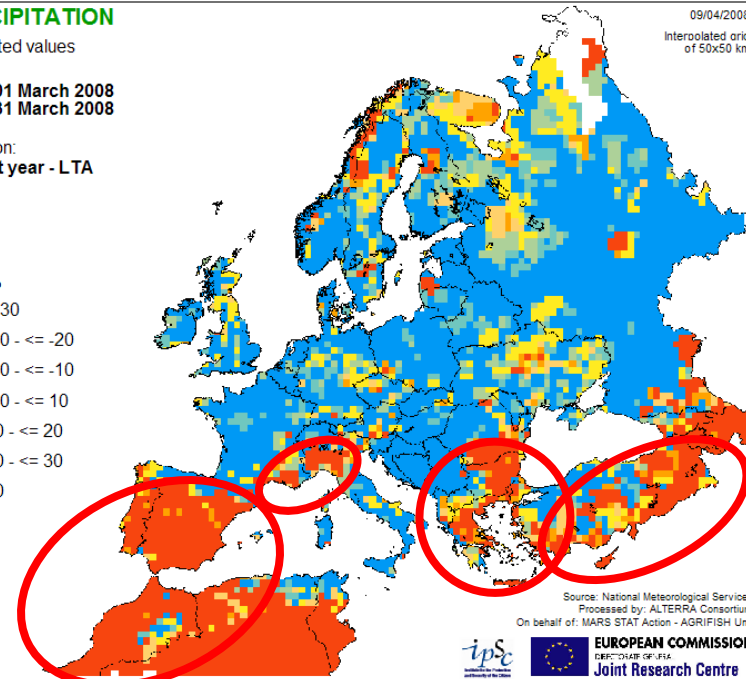
Cumulated values

from : 01 March 2008
to : 31 March 2008

Deviation:
Current year - LTA

Units: %

- <= -30
- > -30 - <= -20
- > -20 - <= -10
- > -10 - <= 10
- > 10 - <= 20
- > 20 - <= 30
- > 30



09/04/2008
Interpolated grid
of 50x50 km

Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: MARS STAT Action - AGRIFISH Unit
ipsc EUROPEAN COMMISSION
Joint Research Centre

PRECIPITATION

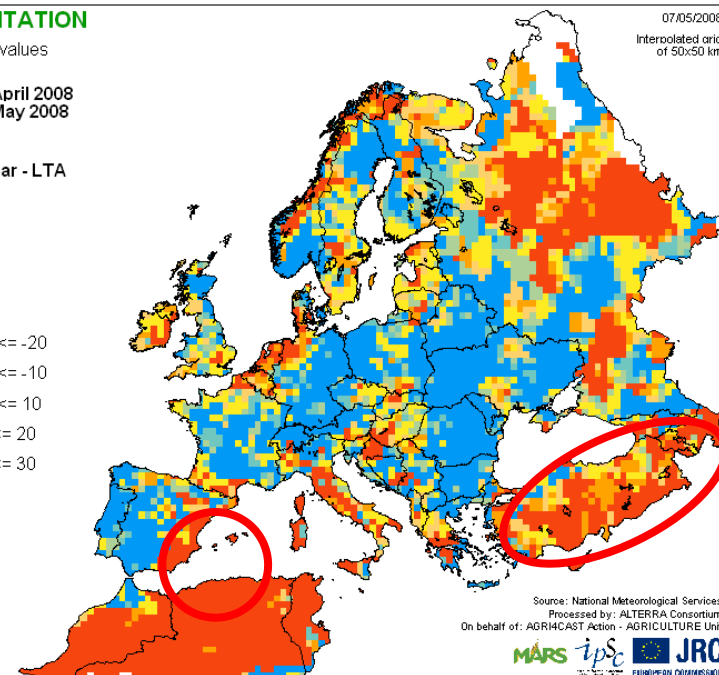
Cumulated values

from : 01 April 2008
to : 05 May 2008

Deviation:
Current year - LTA

Units: %

- <= -30
- > -30 - <= -20
- > -20 - <= -10
- > -10 - <= 10
- > 10 - <= 20
- > 20 - <= 30
- > 30



07/05/2008
Interpolated grid
of 50x50 km

Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: AGR4CAST Action - AGRICULTURE Unit
MARS ipsc JRC
EUROPEAN COMMISSION

Cereal Management Con

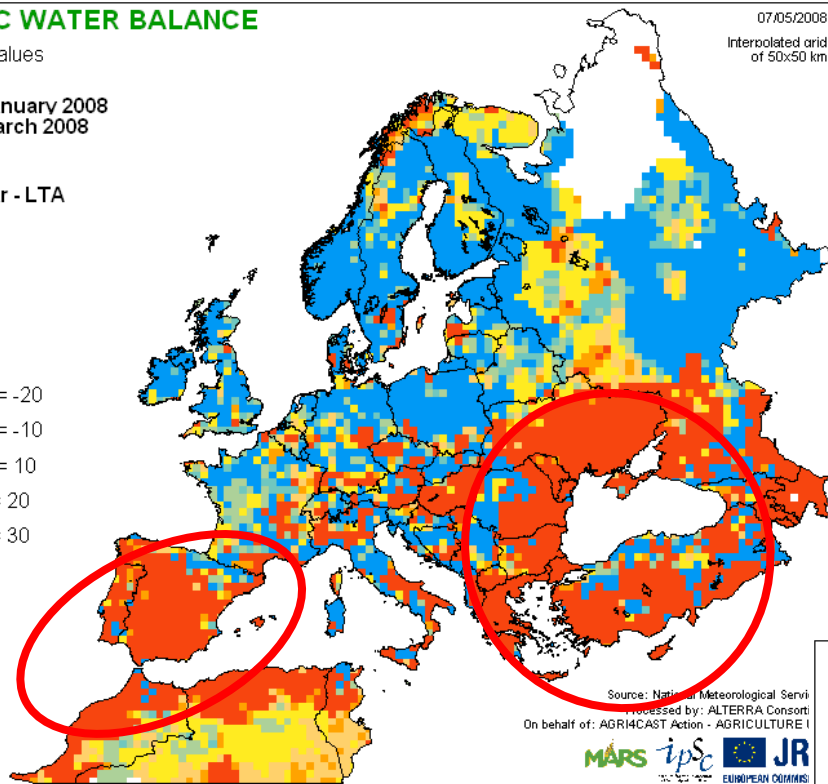
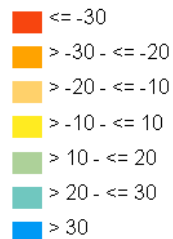
CLIMATIC WATER BALANCE

Cumulated values

from : 01 January 2008
to : 31 March 2008

Deviation:
Current year - LTA

Units: %



07/05/2008
Interpolated grid
of 50x50 km

Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: AGR4CAST Action - AGRICULTURE UNIT
MARS ipsc JR
EUROPEAN COMMISSION



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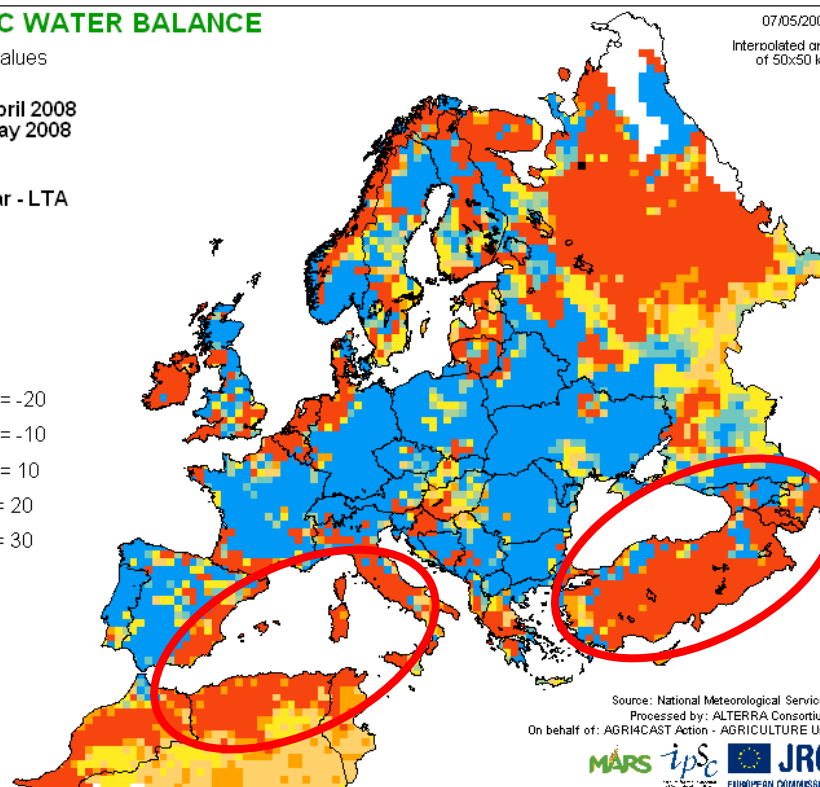
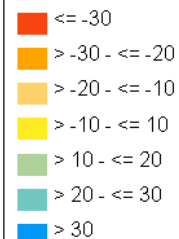
CLIMATIC WATER BALANCE

Cumulated values

from : 01 April 2008
to : 05 May 2008

Deviation:
Current year - LTA

Units: %



07/05/2008
Interpolated grid
of 50x50 km

Source: National Meteorological Services
Processed by: ALTERRA Consortium
On behalf of: AGR4CAST Action - AGRICULTURE UNIT
MARS ipsc JRC
EUROPEAN COMMISSION

Cereal Manager

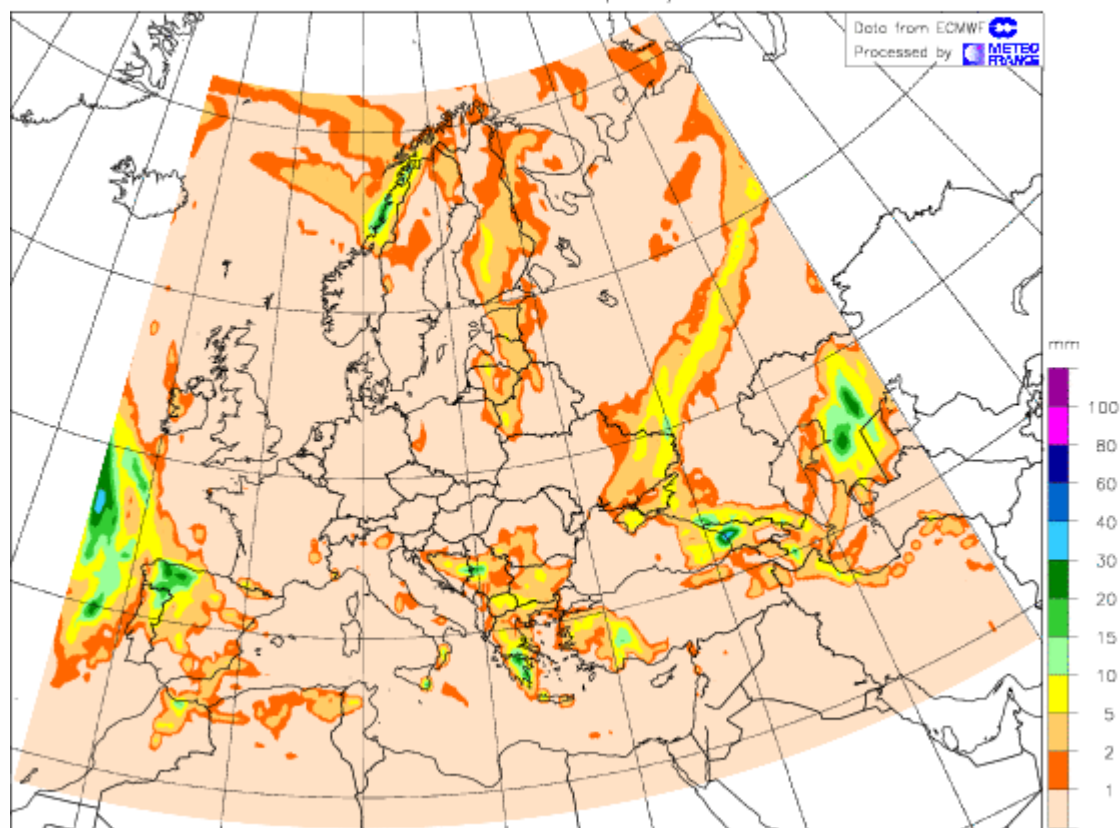


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Daily Rainfall 2008/05/07

Run ECMWF 2008/05/07 0h utc



The geographical borders are purely a graphical representation and are only intended to be indicative. These borders do not necessarily reflect the EC position.

5th May 2008

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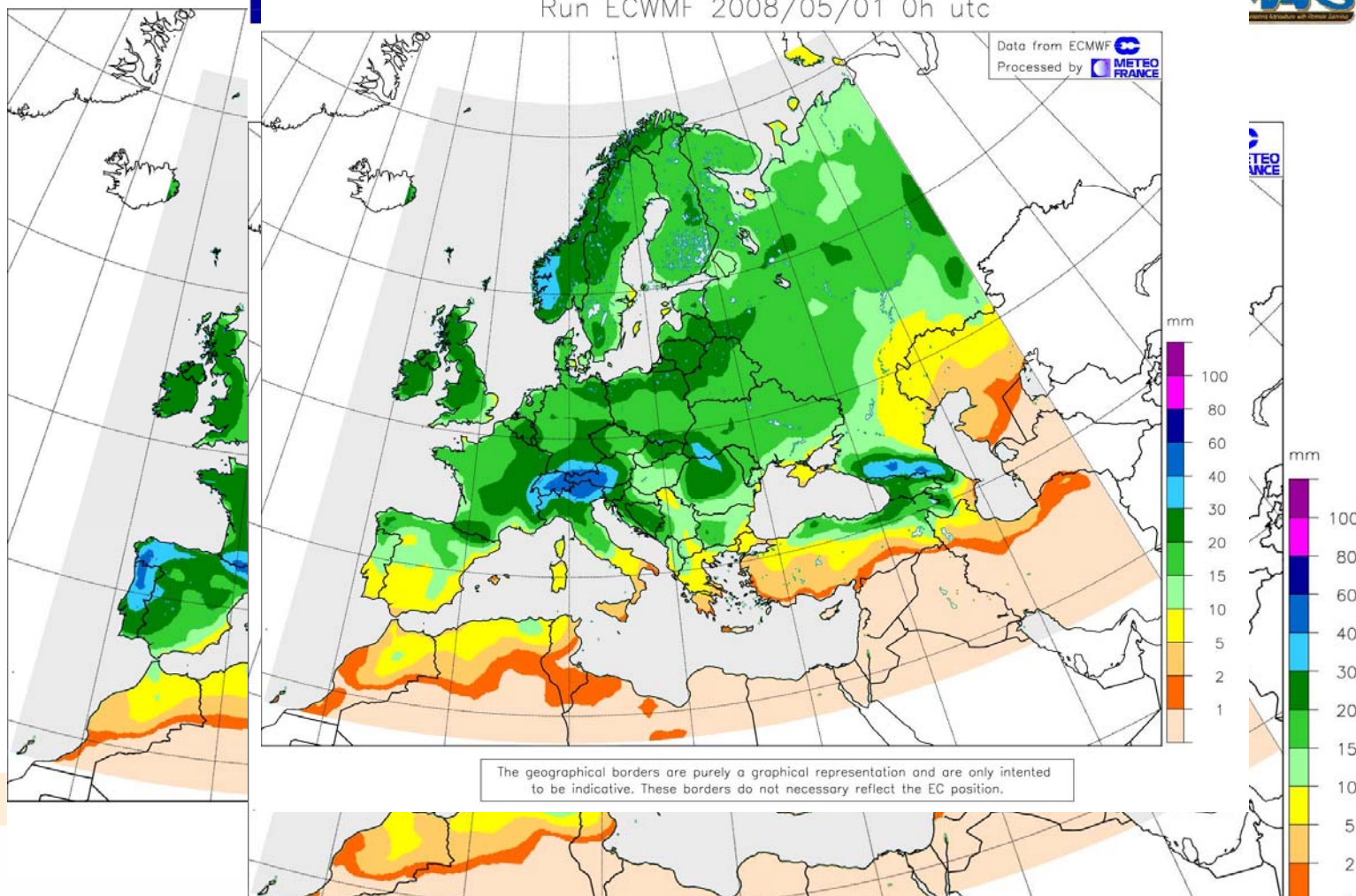


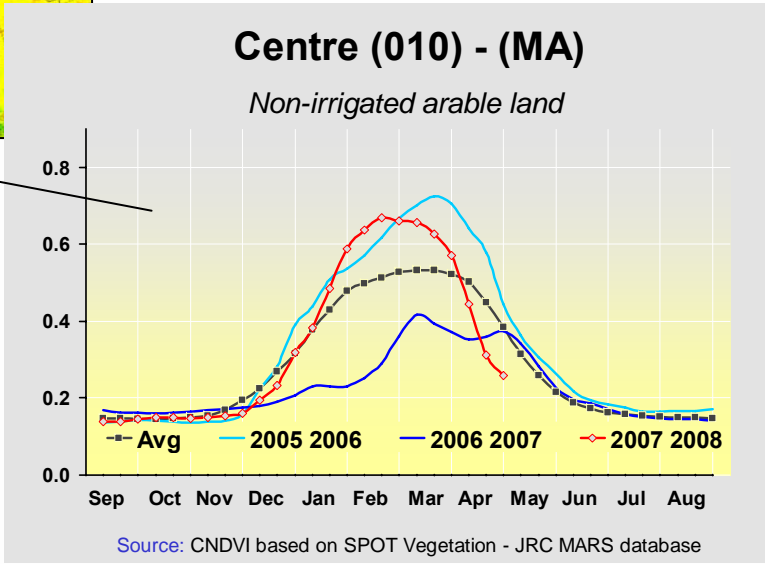
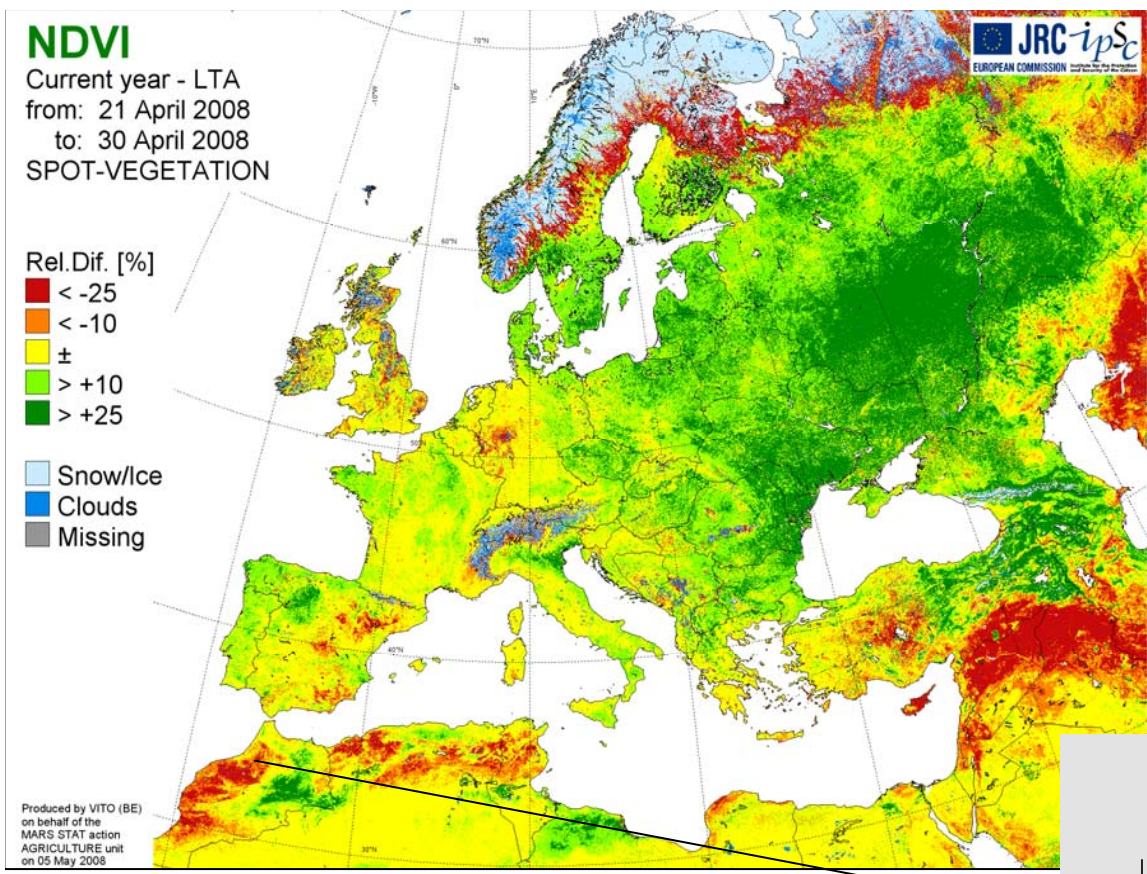
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Weekly Rainfall (week 4)

Run ECWMF 2008/05/01 0h utc







Effect on crops



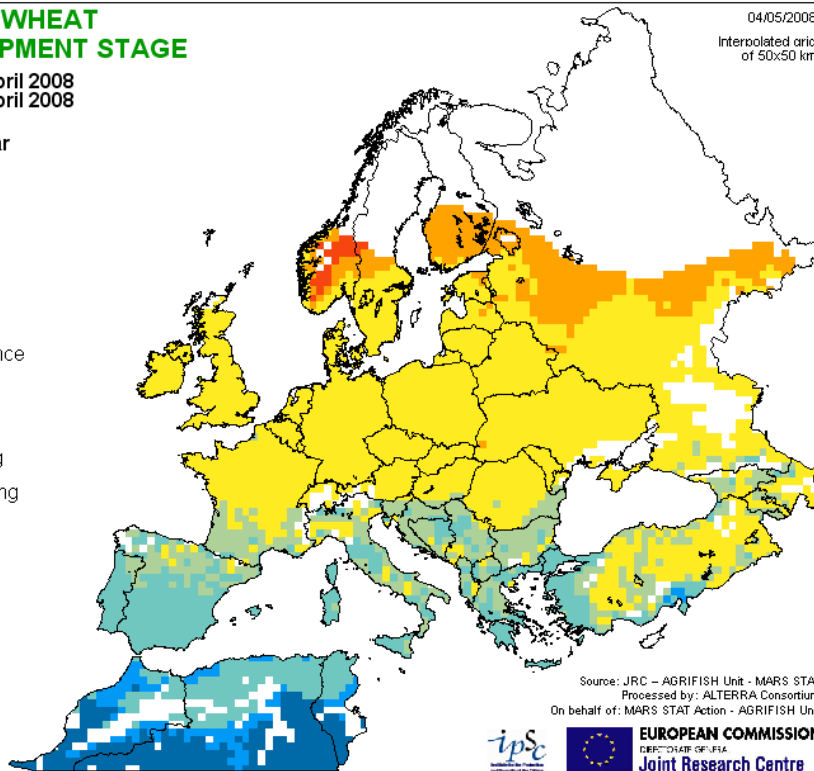
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WINTER WHEAT DEVELOPMENT STAGE

from : 21 April 2008
to : 30 April 2008

Current year

- Units: -
- emergence
 - tillering
 - heading
 - flowering
 - grain filling
 - ripening
 - maturity

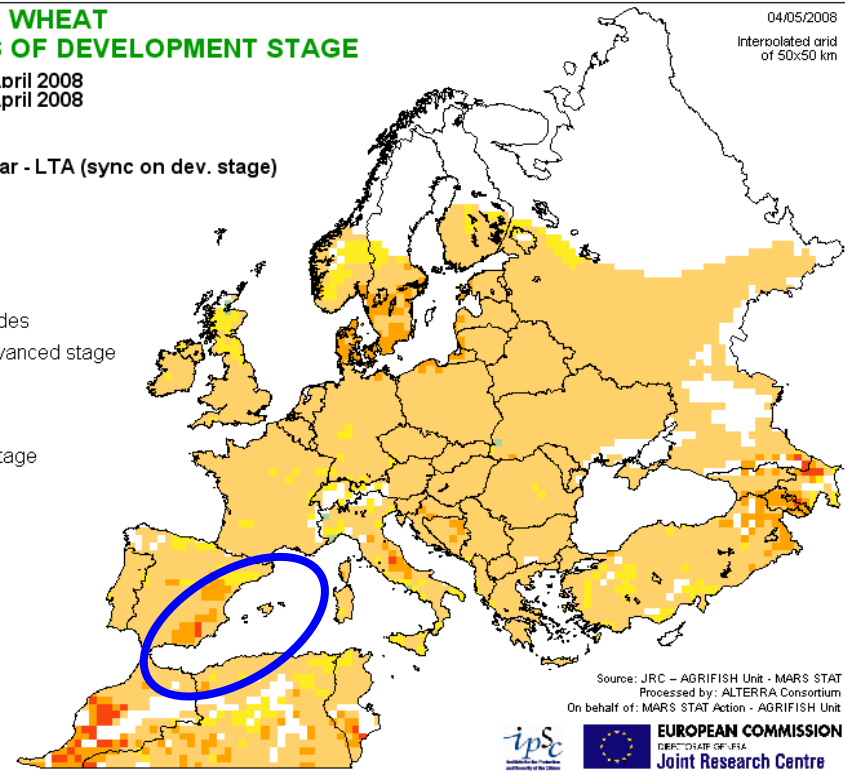


WINTER WHEAT STATUS OF DEVELOPMENT STAGE

from : 21 April 2008
to : 30 April 2008

Deviation:
Current year - LTA (sync on dev. stage)

- Units: decades
- very advanced stage
 - same stage

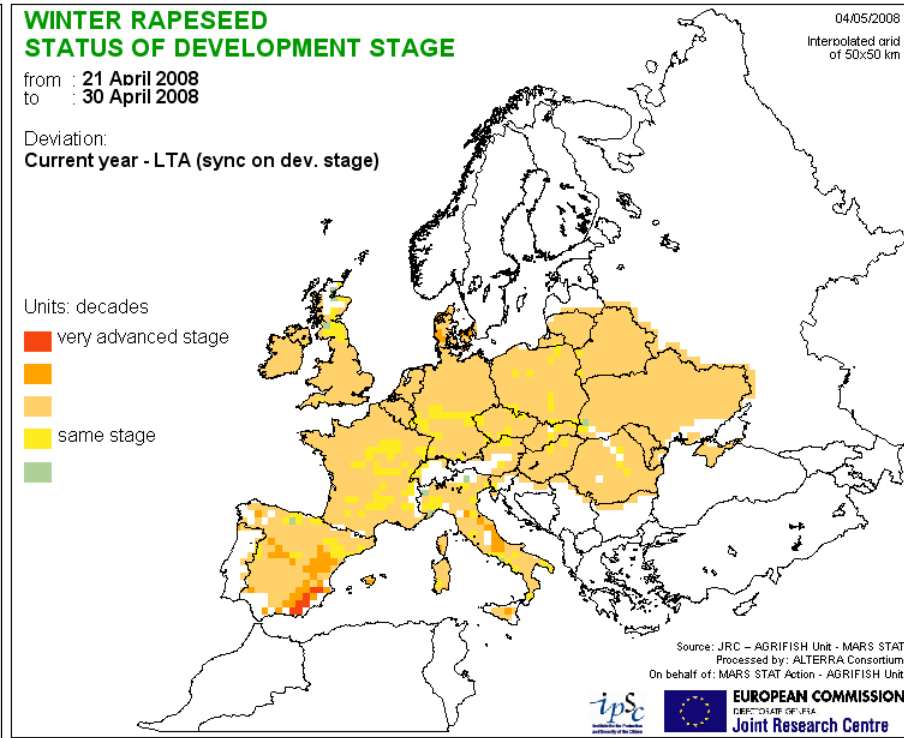
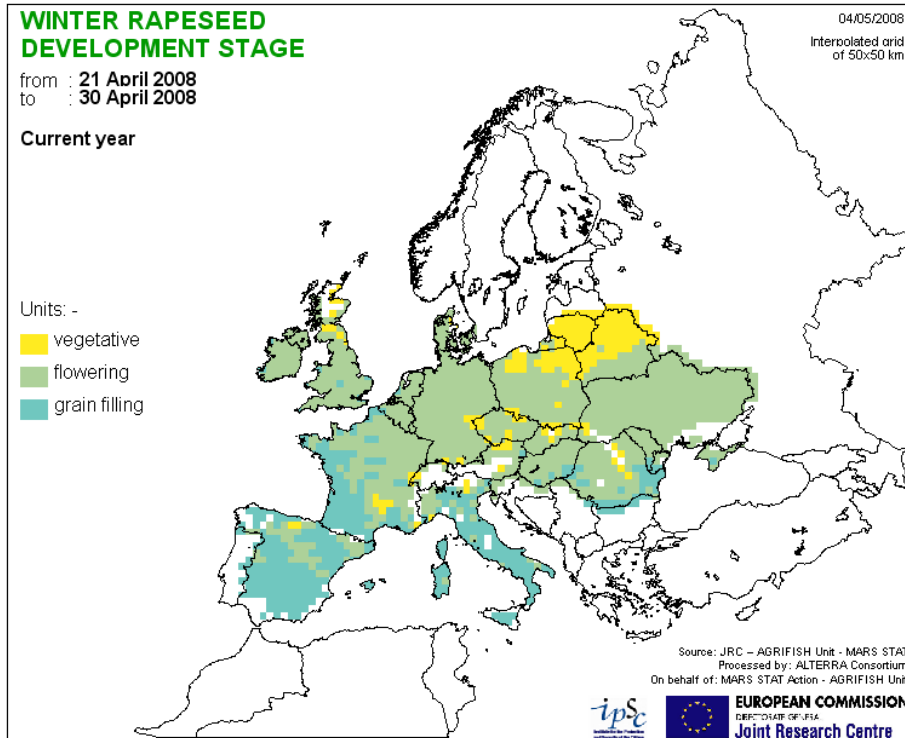




Effect on crops



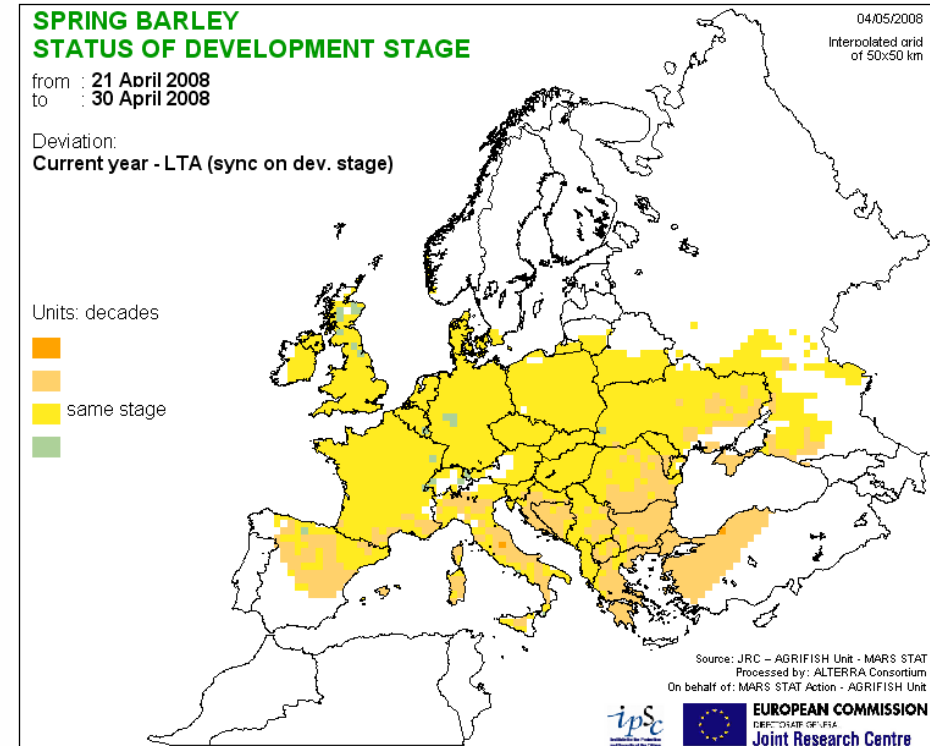
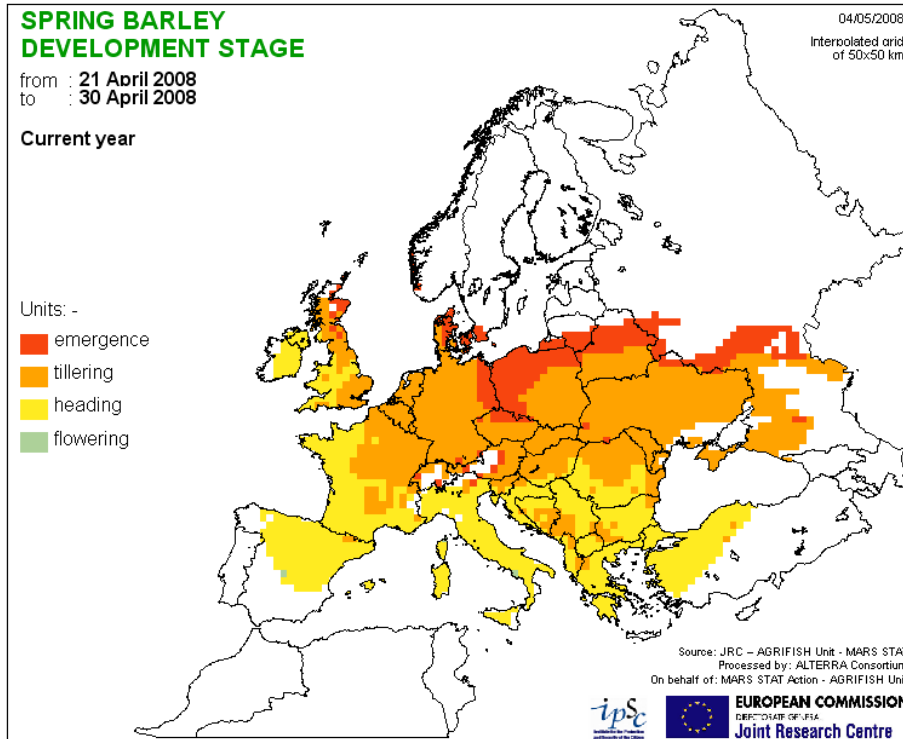
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Effect on crops

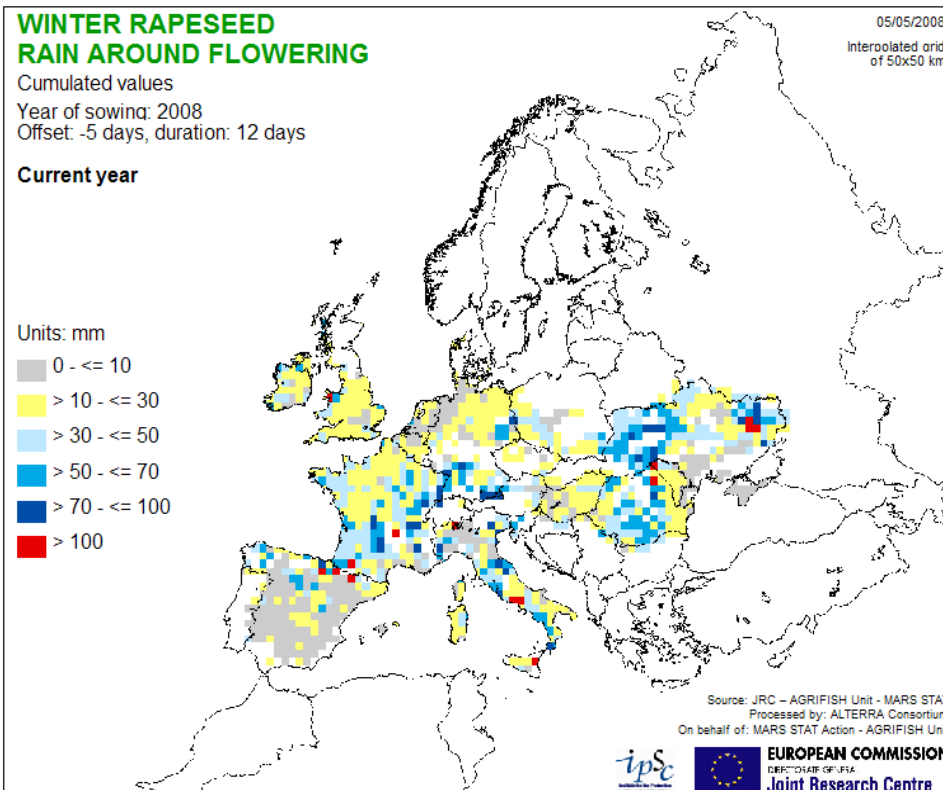
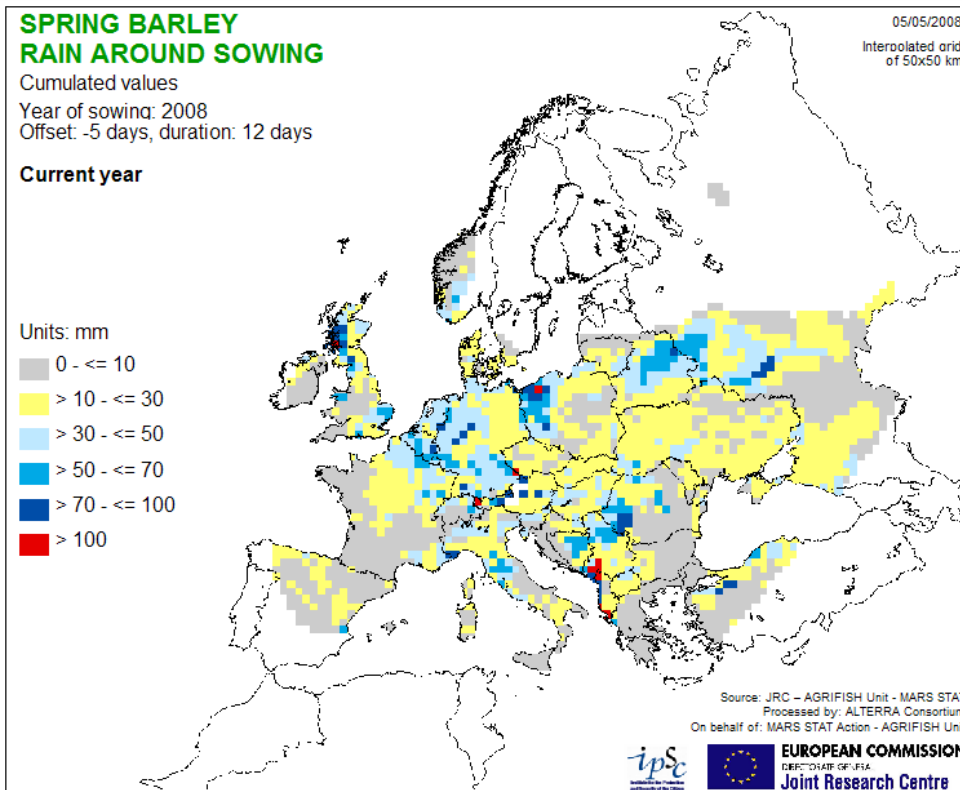


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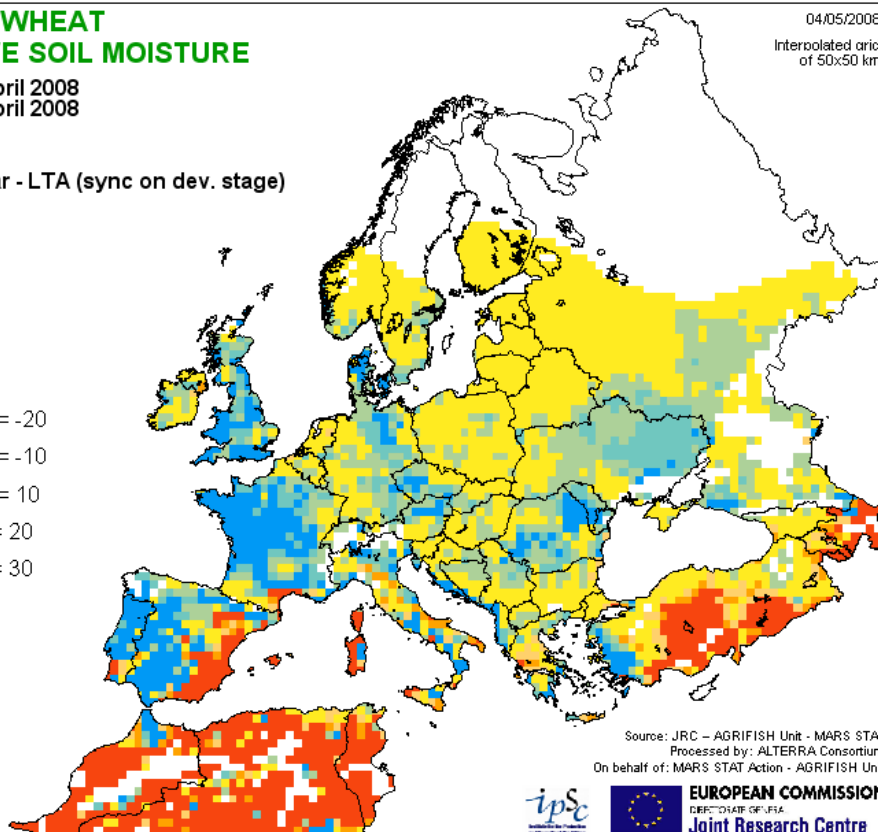
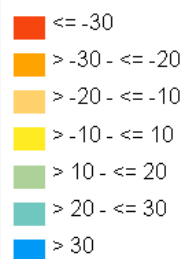


WINTER WHEAT RELATIVE SOIL MOISTURE

from : 21 April 2008
to : 30 April 2008

Deviation:
Current year - LTA (sync on dev. stage)

Units: %



Source: JRC - AGRIFISH Unit - MARS STAT
Processed by: ALTERRA Consortium
On behalf of: MARS STAT Action - AGRIFISH Unit



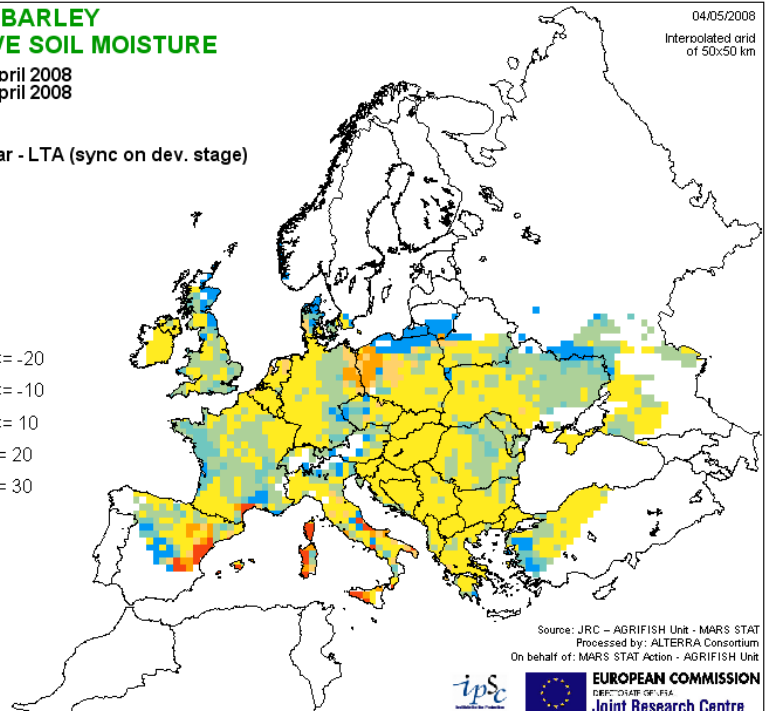
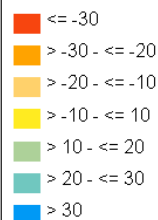
04/05/2008
Interpolated grid
of 50x50 km

SPRING BARLEY RELATIVE SOIL MOISTURE

from : 21 April 2008
to : 30 April 2008

Deviation:
Current year - LTA (sync on dev. stage)

Units: %



Source: JRC - AGRIFISH Unit - MARS STAT
Processed by: ALTERRA Consortium
On behalf of: MARS STAT Action - AGRIFISH Unit



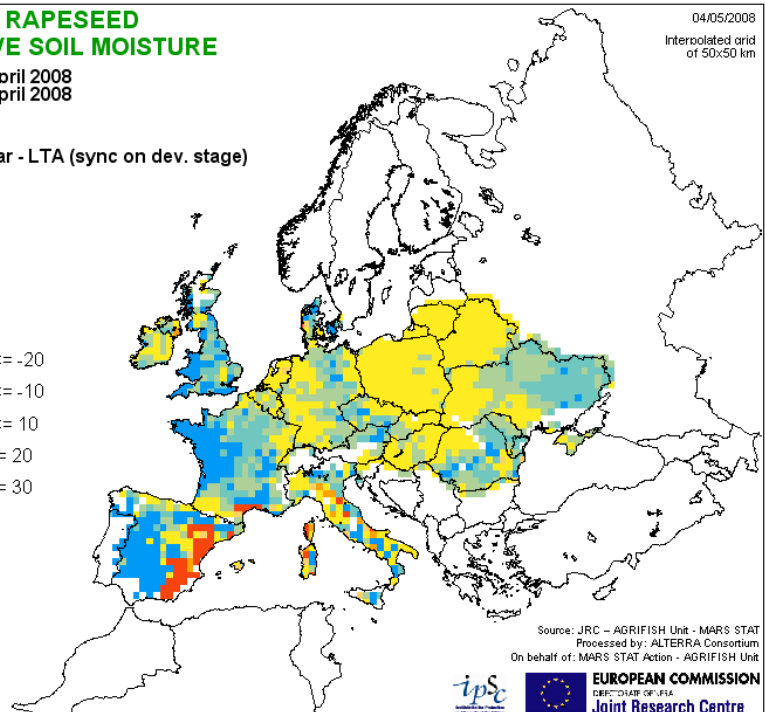
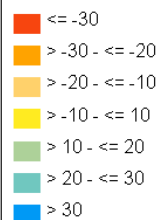
04/05/2008
Interpolated grid
of 50x50 km

WINTER RAPESEED RELATIVE SOIL MOISTURE

from : 21 April 2008
to : 30 April 2008

Deviation:
Current year - LTA (sync on dev. stage)

Units: %



Source: JRC - AGRIFISH Unit - MARS STAT
Processed by: ALTERRA Consortium
On behalf of: MARS STAT Action - AGRIFISH Unit

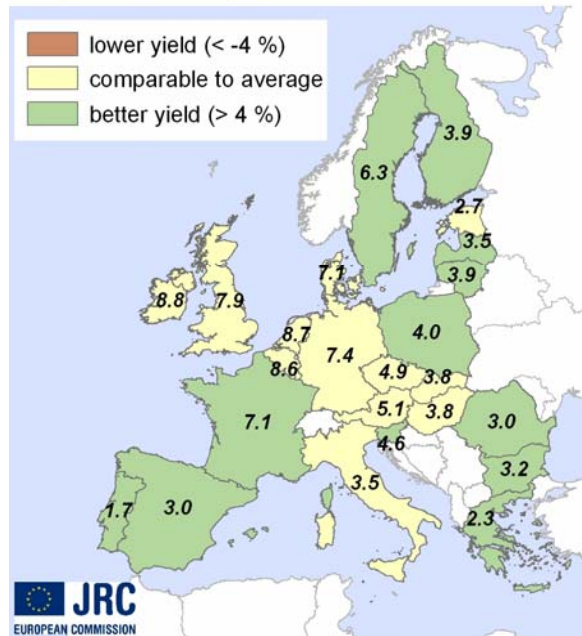


04/05/2008
Interpolated grid
of 50x50 km

Total wheat - forecasted yield 2008

Actual yield versus average yield 2003- 2007

Yield figures 2008 are expressed in t/ha and rounded to 100 kg

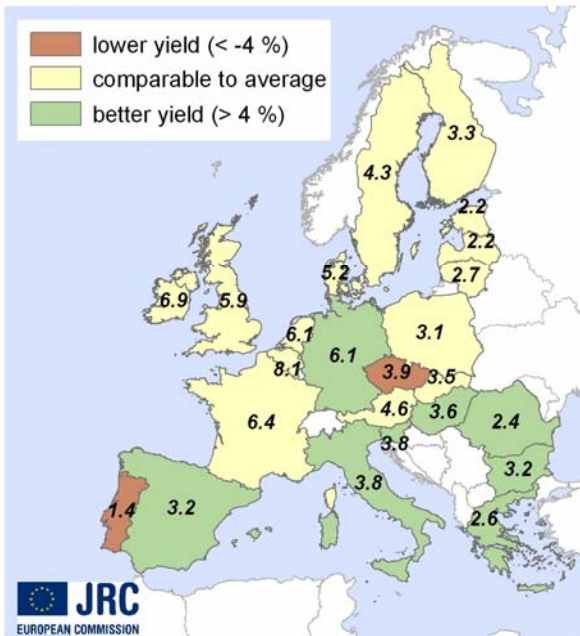


Data source: MARS Crop Yield Forecasting System 06.05.2008

Total barley - forecasted yield 2008

Actual yield versus average yield 2003- 2007

Yield figures 2008 are expressed in t/ha and rounded to 100 kg

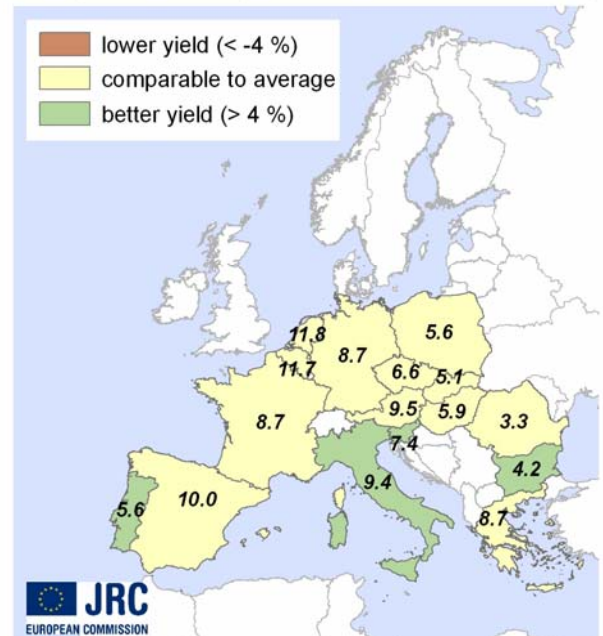


Data source: MARS Crop Yield Forecasting System 06.05.2008

Grain maize - forecasted yield 2008

Actual yield versus average yield 2003- 2007

Yield figures 2008 are expressed in t/ha and rounded to 100 kg



Data source: MARS Crop Yield Forecasting System 06.05.2008



EU27 Total cereals yield forecasts - 6th May 2008'

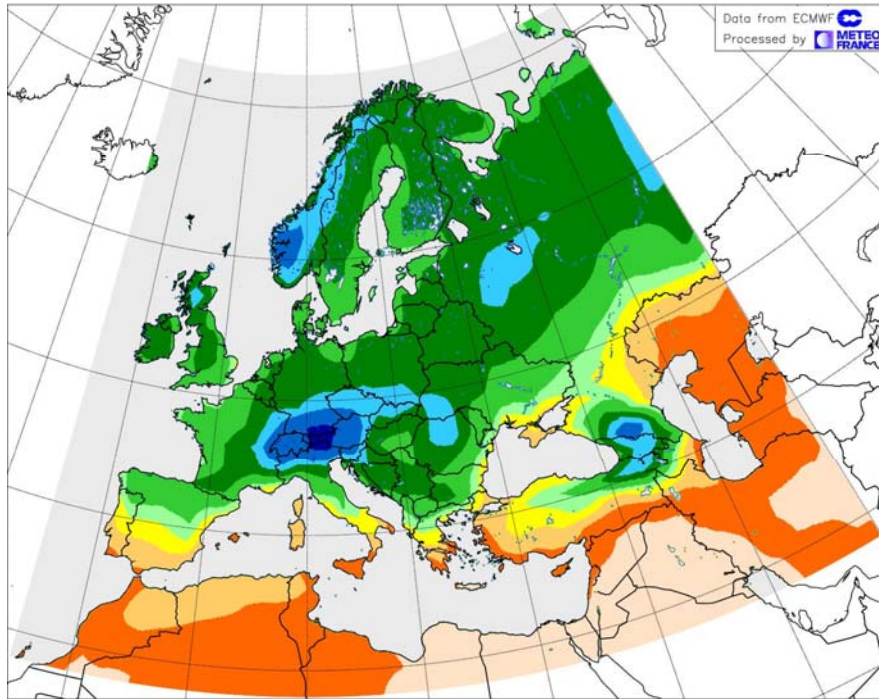
Cereals	Area x 1000 ha					Yield t/ha					Production x 1000 t.				
	2007*	2008*	Average 5 years	% 2008/07	% 2008/Average	2007*	MARS 2008 forecasts	Average 5 years	% 2008/07	% 2008/Average	2007*	2008	Average 5 years	% 2008/07	% 2008/Average
cereals (total)	57,035	59,198	58,472	+3.8	+1.2	4.52	4.9	4.7	+8.7	+4.4	257,975	291,138	275,464	+12.9	+5.7
wheat (total)	23,762	25,117	24,433	+5.7	+2.8	4.96	5.4	5.1	+8.3	+4.9	117,887	134,976	125,120	+14.5	+7.9
soft wheat	21,987	21,818	22,020	-0.8	-0.9	5.10	5.8	5.4	+12.7	+6.7	112,143	125,448	118,704	+11.9	+5.7
durum wheat	2,848	3,288	3,404	+15.4	-3.4	2.84	2.9	2.7	+1.5	+5.1	8,084	9,474	9,336	+17.2	+1.5
barley (total)	13,684	14,289	13,743	+4.4	+4.0	4.21	4.4	4.2	+3.7	+4.4	57,630	62,415	57,476	+8.3	+8.6
spring barley	8,361	8,725	8,436	+4.3	+3.4	3.83	3.8	3.7	-0.5	+3.0	32,049	33,279	31,230	+3.8	+6.6
winter barley	5,310	5,548	5,278	+4.5	+5.1	4.81	5.2	5.0	+9.0	+5.7	25,544	29,090	26,180	+13.9	+11.1
grain maize	8,290	6,898	9,130	-16.8	-24.5	5.74	7.3	6.3	+27.9	+16.1	47,608	50,647	57,734	+6.4	-12.3
other cereals	11,299	12,894	11,166	+14.1	+15.5	3.08	3.3	3.2	+8.4	+5.2	34,849	43,100	35,133	+23.7	+22.7

* Source EUROSTAT New Cronos and EES: last update 2008-05-05, DG AGRI bilan sheet, last update 2008-03-28

Note: Countries with areas below 10000 ha are not counted in

Monthly Rainfall 2008/06

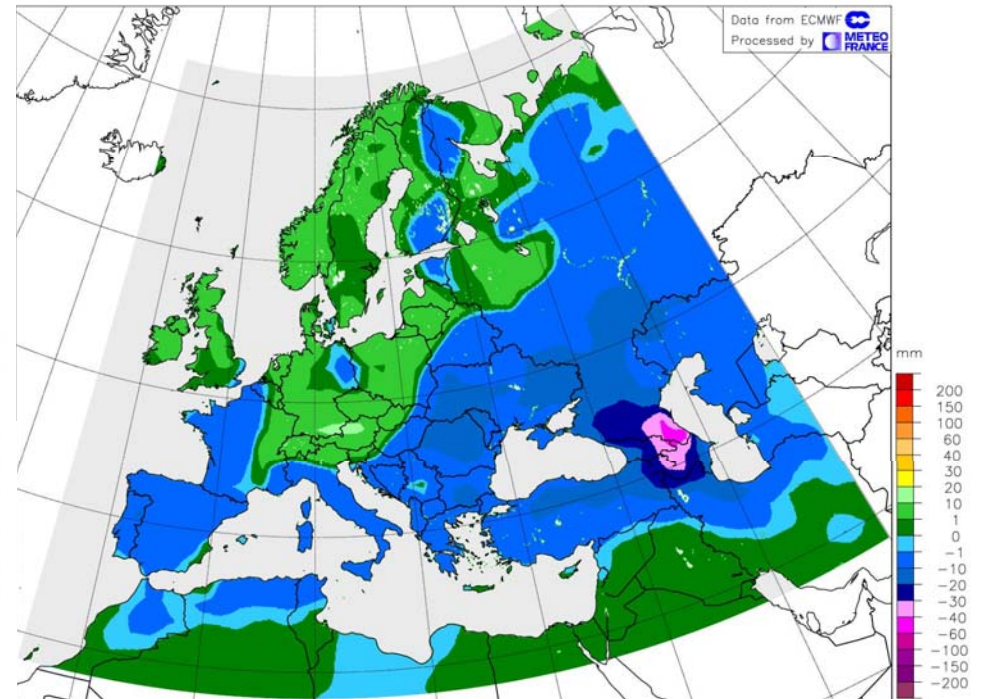
Run ECWMF 2008/04/01



The geographical borders are purely a graphical representation and are only intended to be indicative. These borders do not necessary reflect the EC position.

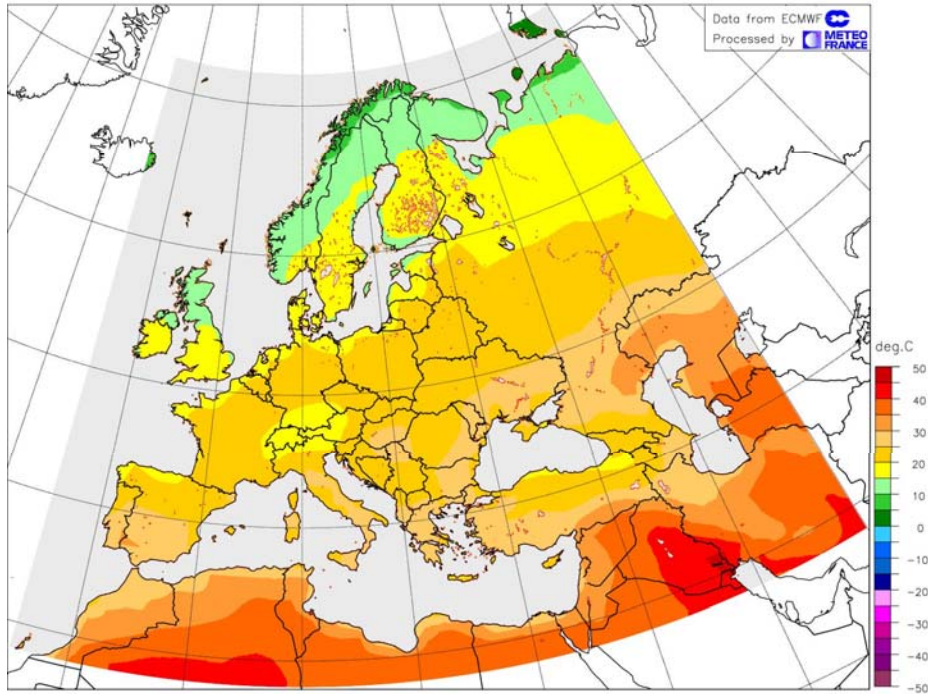
Monthly Rainfall Anomaly 2008/06

Run ECWMF 2008/04/01



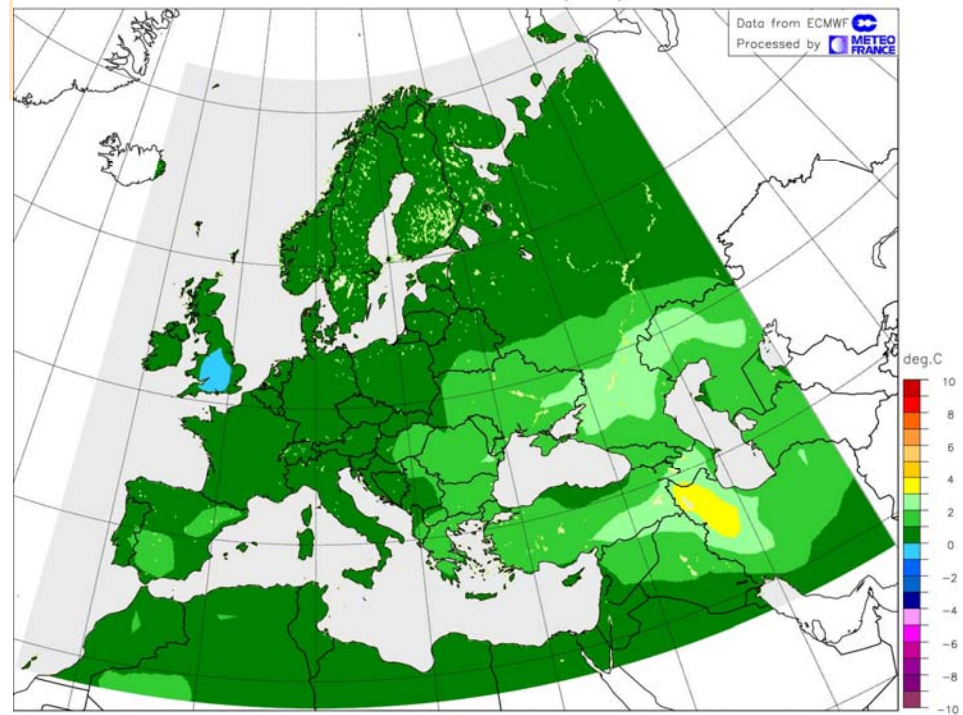
The geographical borders are purely a graphical representation and are only intended to be indicative. These borders do not necessary reflect the EC position.

Monthly Mean Max 2m Temperature 2008/06
Run ECWMF 2008/04/01



The geographical borders are purely a graphical representation and are only intended to be indicative. These borders do not necessary reflect the EC position.

Monthly Max 2m Temperature Anomaly 2008/06
Run ECWMF 2008/04/01



The geographical borders are purely a graphical representation and are only intended to be indicative. These borders do not necessary reflect the EC position.



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Thank you for your attention