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Mediterranean Climate Outlook Forum

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Seasonal forecast from CNR-IBIMET statistical system

17.11.2014

Third MEDITERRANEAN CLIMATE OUTLOOK FORUM
(MedCOF-3)

<http://web.fi.ibimet.cnr.it/seasonal/>

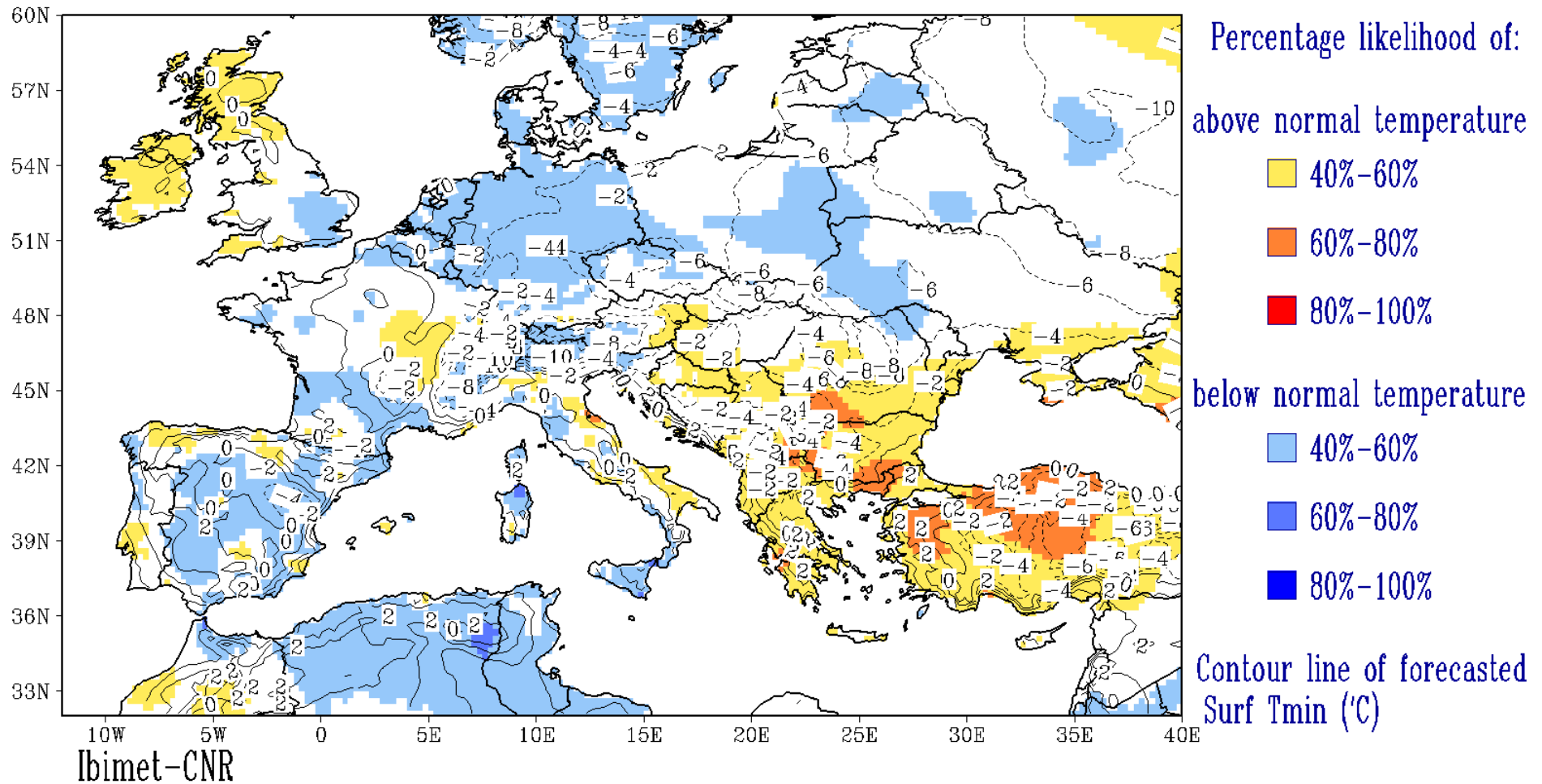
- The multi-regressive method is based on physical atmospheric indices and sea surface anomalies, at monthly time scale.
- Lead – time choices are made on physical basis and on a maximization of the regression values between observed and forecasted field anomalies thus performing an “adaptation” for the best choice of predictors.

Short Name	Full Name	Source
MED	Mediterranean Sea 1 st EOF SST (JUNG ET AL., 2006)	CPC ^{6b}
AMO	Atlantic <u>Multidecadal</u> Oscillation (Enfield et al., 2001)	CDC ^{6b}
MEI	Multivariate ENSO Index (Wolter & Timlin, 1993)	CDC
NAO	North Atlantic Oscillation (Barnston and Livezey, 1987)	CPC
SV-NAM	Seasonally Varying Northern Hemisphere Annular Mode (Ogi et al., 2003, 2004)	HOK ^{6b}
MZI	Modified Zonal Index (J. P. Li & Wang, 2003)	IRI ^{6b}
TRI	Atlantic <u>Tripole</u> 1 st EOF SST (Deser & Timlin, 1997)	IRI
GUI	Guinea Gulf 1 st EOF SST ^{6b}	IRI
IND	Indian Sea 1 st EOF SST ^{6b}	IRI
NASCI	North American Snow Cover Index ^{6b}	IRI
SISCI	Siberian Snow Cover Index ^{6b}	IRI
PDO	Pacific <u>Decadal</u> Oscillation (Mantua et al., 1997)	JISAO

DJF 2015

Most likely category for Surf Min Temperature
Forecast issued on 10/11/2014

Ibimet-CNR Seasonal Forecast
multi-regressive model
Hunter v2.01

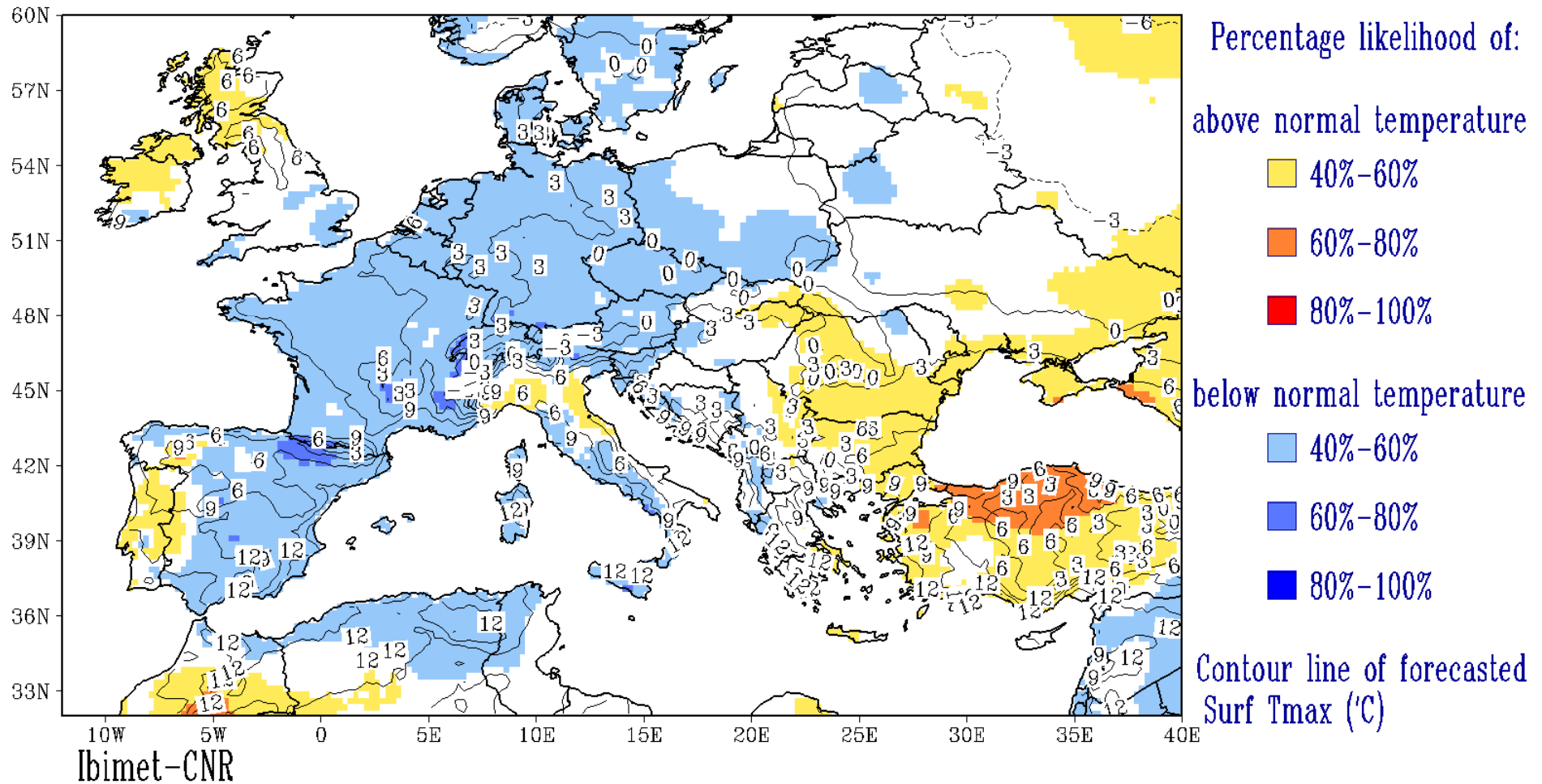


Based on ECAD monthly dataset at 0.25x0.25 spatial resolution with 1981-2010 climatological reference

DJF 2015

Most likely category for Surf Max Temperature
Forecast issued on 10/11/2014

Ibimet-CNR Seasonal Forecast
multi-regressive model
Hunter v2.01

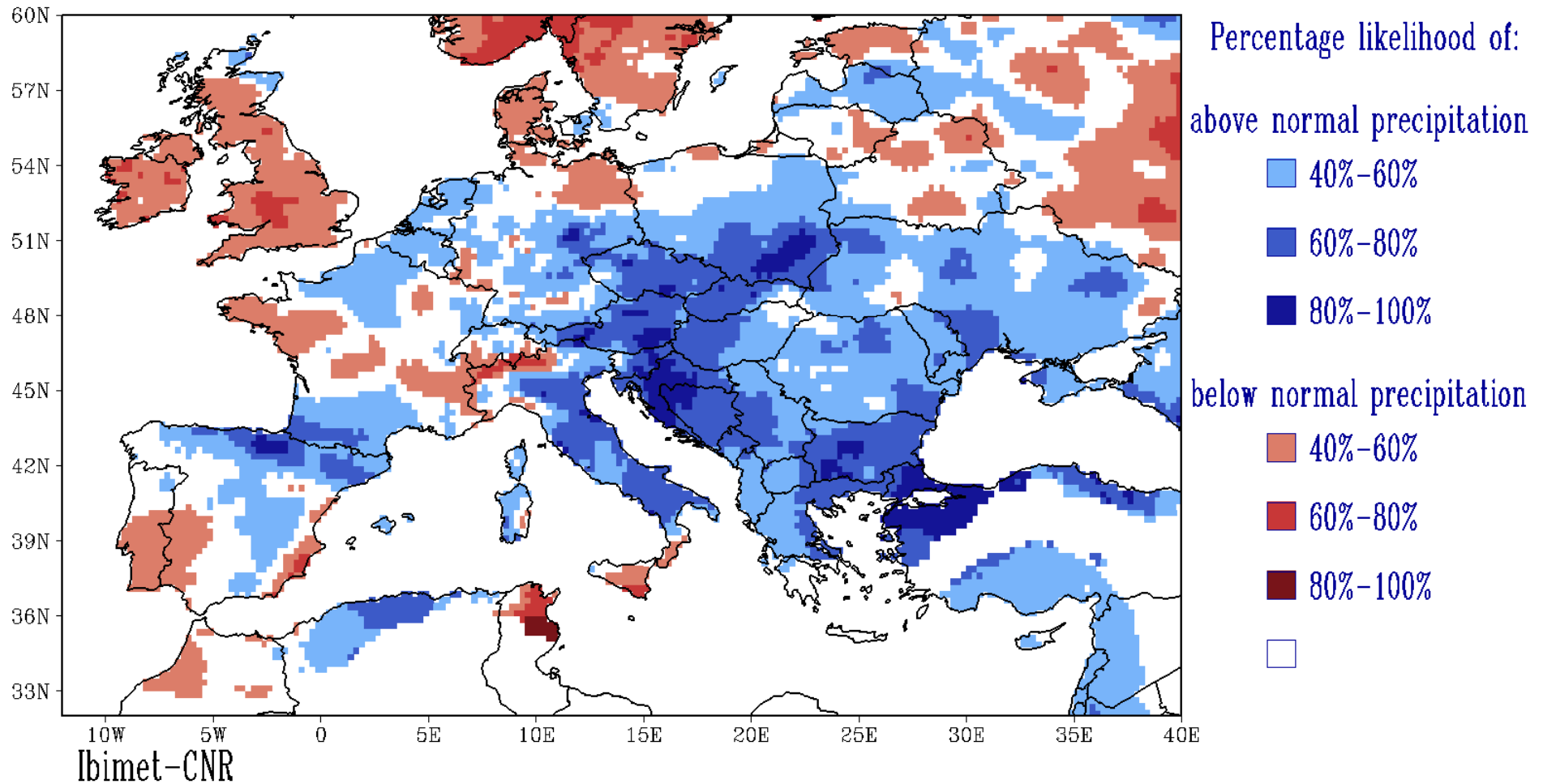


Based on ECAD monthly dataset at 0.25x0.25 spatial resolution with 1981-2010 climatological reference

DJF 2015

Most likely category for 1-month precip ECAD v6
Forecast issued on 10/11/2014

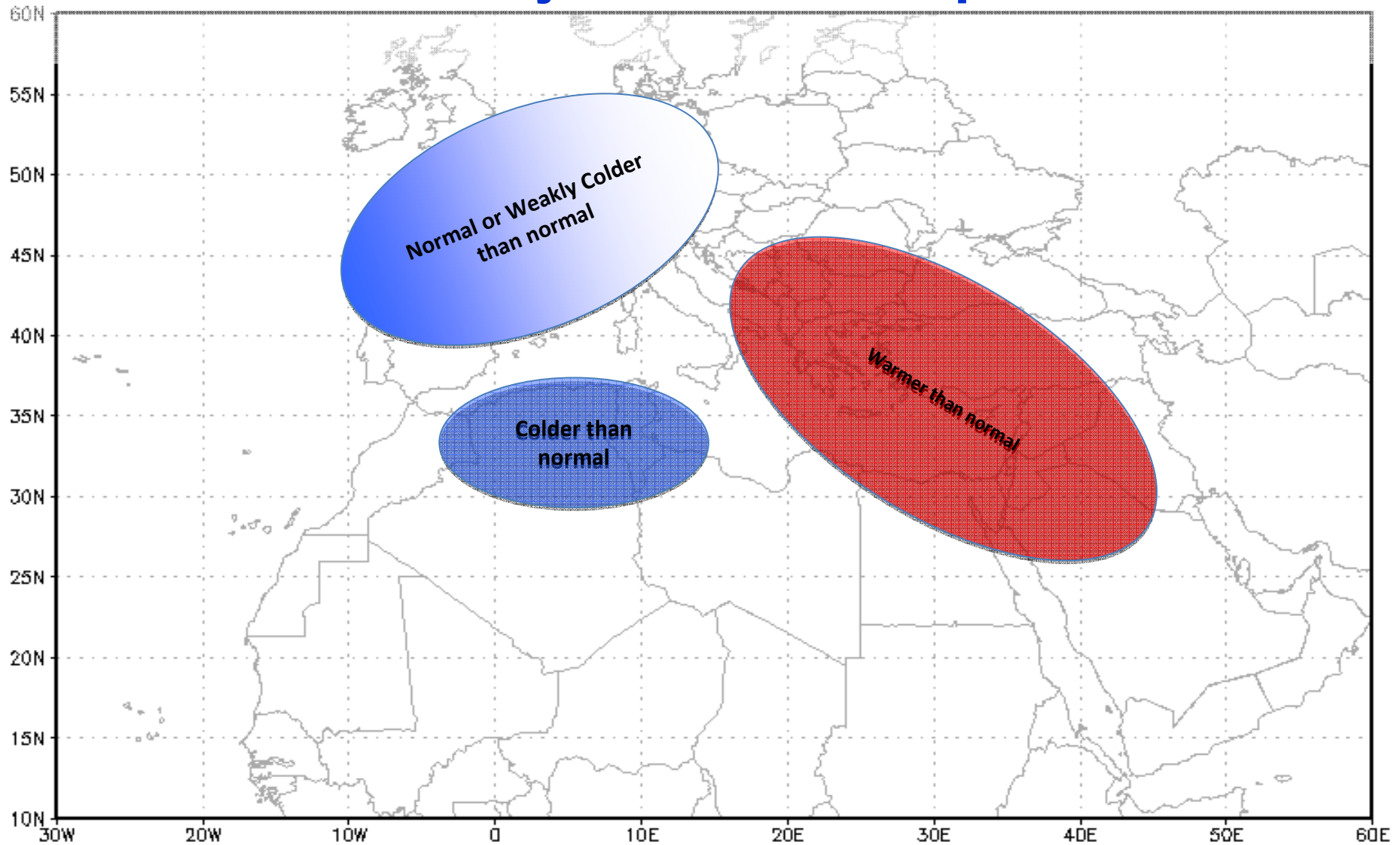
Ibimet-CNR Seasonal Forecast
multi-regressive model
Hunter v2.01



Based on ECAD monthly dataset at 0.25x0.25 spatial resolution with 1981-2010 climatological reference

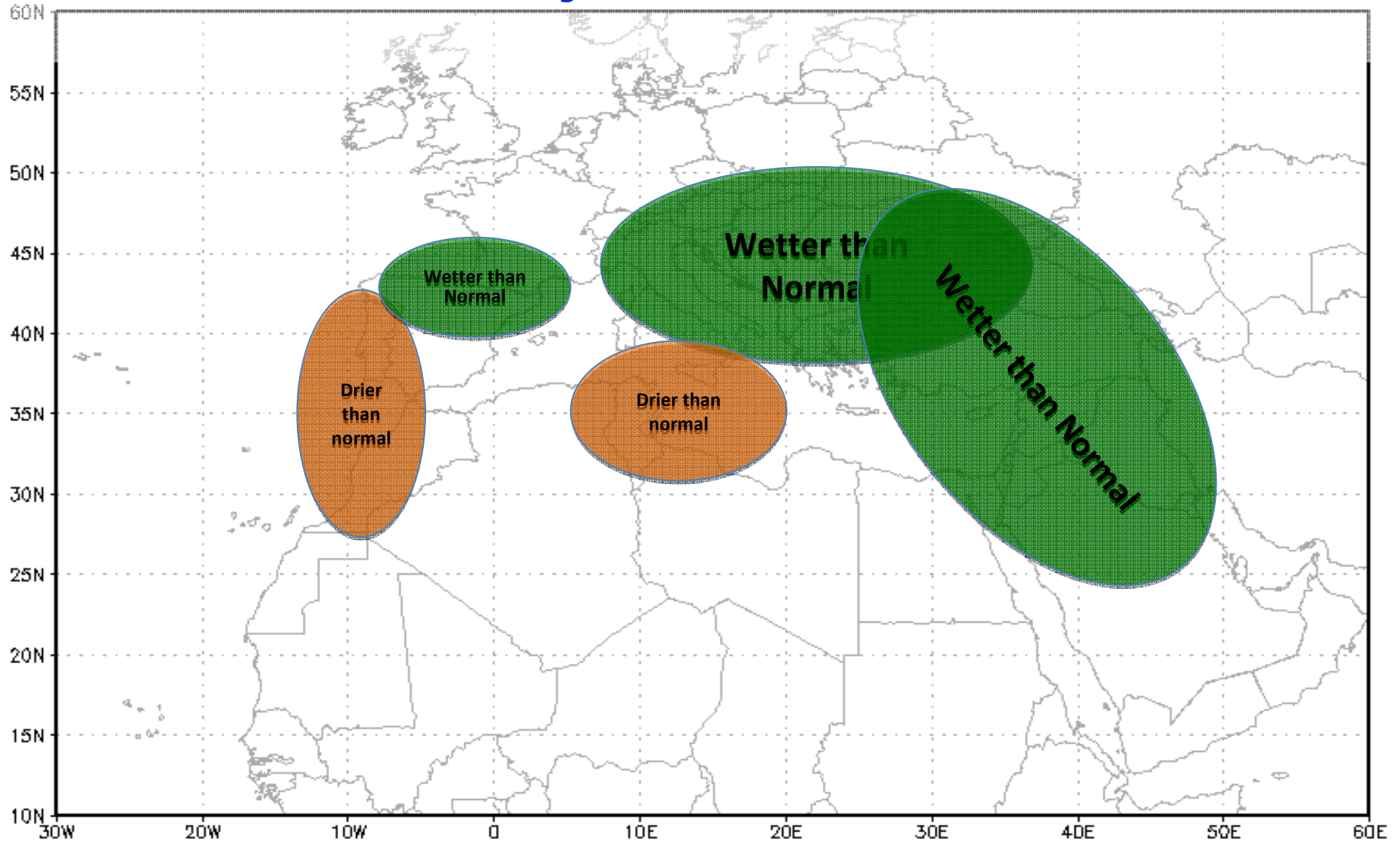
IBIMET-Statistical Method

Hazard Risks Summary Outlook – 2mTempc - DJF 2014-2015



IBIMET-Statistical Method

Hazard Risks Summary Outlook – Rainfall - DJF 2014-2015



Outlook Summary #1

DJF - 2m Temperature Anomalies

- Even if a large pattern of **colder-than-normal** conditions is present over the **Western Mediterranean** basin, its strength is estimated “**weak**” and essentially related to the maximum 2m temperature.
- A more “**pronounced**” and “**coherent**” pattern of **warmer-than-normal** conditions is estimated over large portion of **Eastern Mediterranean** basin.
- Some teleconnection patterns (e.g.: Easterly QBO, ENSO-El Nino, Eurasian Snow Extension rate in October) are in favour of a possible mid-winter “Sudden Stratospheric Warming” which, if this is the case, could change a lot this outlook.

Outlook Summary #2

DJF – Rainfall Anomalies

- A “*pronounced*” and “*coherent*” pattern **wetter-than-normal** conditions is estimated over large portion of **Central-Eastern Mediterranean** basin, especially over northern Mediterranean coast and Italy.
- Some localized portion with **drier-than-normal** conditions are estimated over **Morocco, Southern Portugal, Southern Spain, Tunisia and Southern Italy**.

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International Training Course on Seasonal Forecasts for Agriculture in the Mediterranean 21-26 September 2014

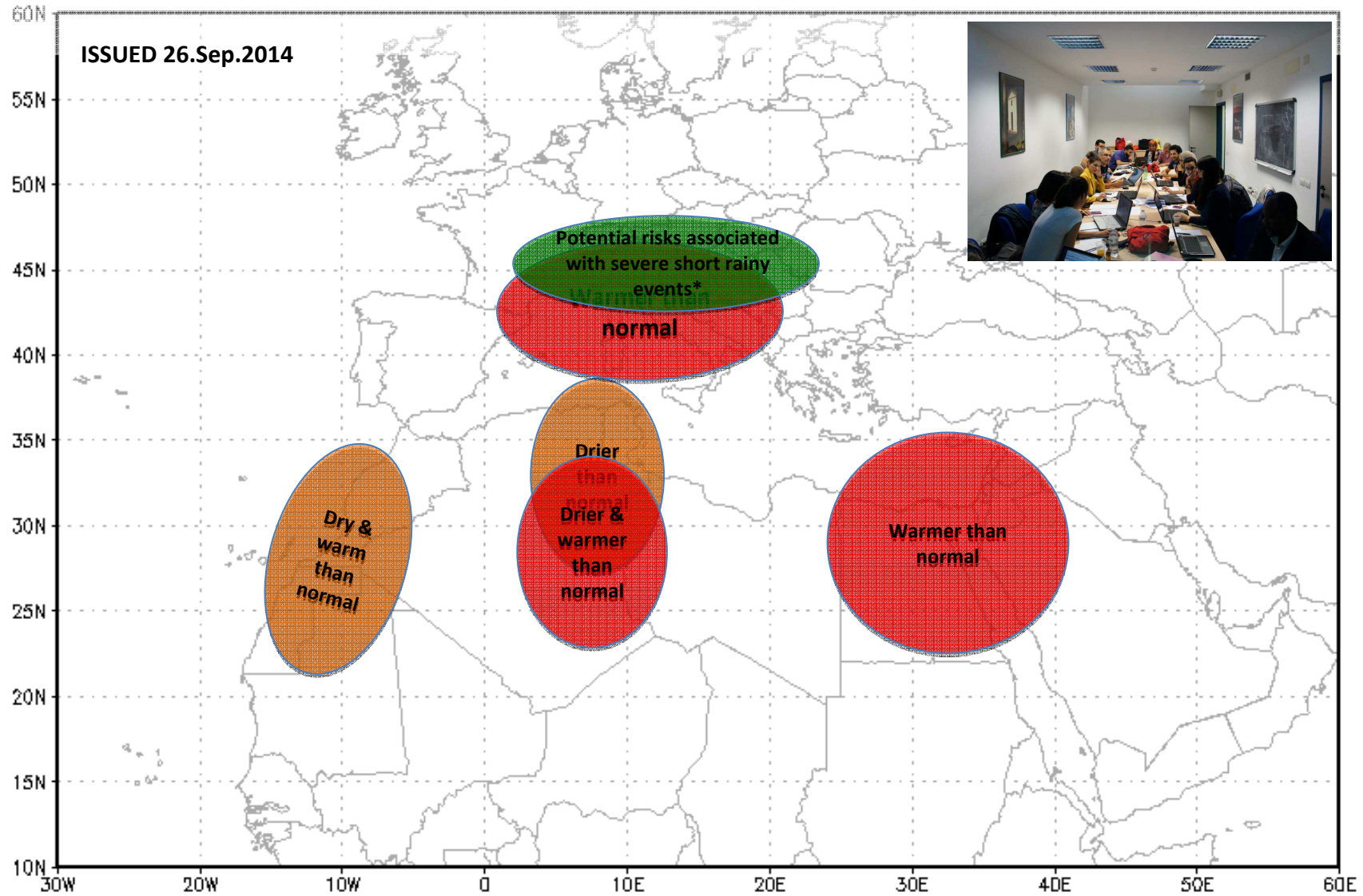


CNR-IBIMET organized a WMO training course on Seasonal forecasts last September. As part of the training students produced a “consensus” forecast for OND-2014 for specific regions where they are came from. This forecast is presented here...

<http://www.fi.ibimet.cnr.it/rtc/training-courses>

RTC - SFAM

Hazard Risks Consensus Outlook Exercise – OND 2014



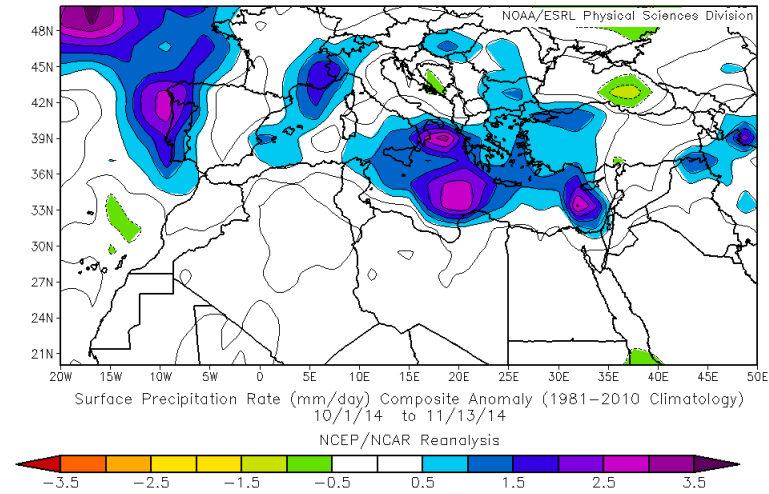
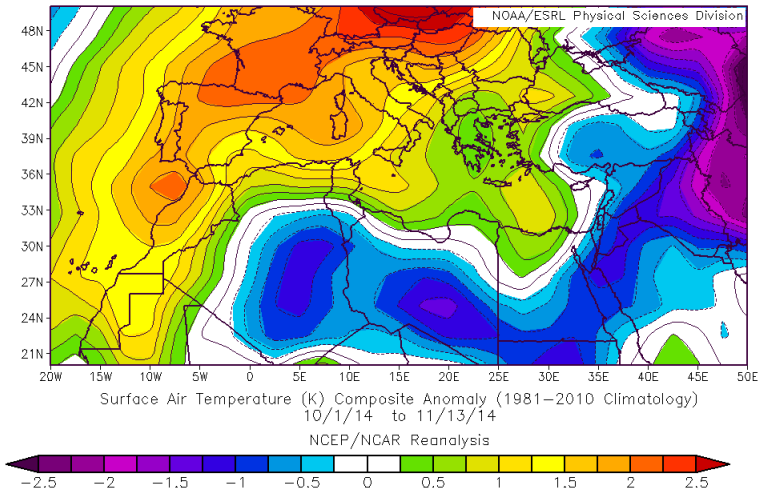
* It is not related directly from model outputs, but inferred by analysis of past hydrological state, climatological consideration (deep convective systems) and SST anomalies observed at the end of September.

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“MidTerm” evaluation period: 1 Oct – 13 Nov 2014





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We are planning a second edition of the Training Course in **2015**, I hope that a strong cooperation with COFs could be established for teaching, for potential participants and themes.



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***Thanks a lot for
your attention!***