

# Recent seasonal forecasting in Bulgaria

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4 May 2010, Sofia

## 1. Introduction

### 1.1 Regular seasonal forecast





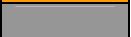
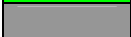

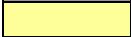




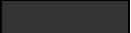
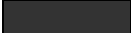
The National institute of meteorology and hydrology (NIMH) is the national weather service of Bulgaria. We have been producing regular seasonal forecast for our country since 2005. It is updated once a month at the end of the month as soon as all forecast materials become available. It is based on subjective analysis of the map products from the numerical climate prediction models of the following centers:

European center for medium range weather forecast, Reading, UK;  
MetOffice, Exeter, UK;  
National center for environmental prediction, USA;  
International research institute, Columbia University, USA;  
Beijing climate center, China;  
Tokyo climate center, Japan;

And the statistical prediction model of the Italian institute of biometeorology Ibimet. All these materials are available on the websites of the centers.

### 1.2 Explanation

The categories “above normal”, “around normal”, and “below normal” by definition have an equal probability of occurrence of 33.3%. The aim of the seasonal forecast is to favor one or two of the three categories based on the analysis of all available forecast materials and assessment of the evolution of large climate structures for the upcoming months. We consider Bulgaria as a region that is relatively small compared to the spatial uncertainties of the modern seasonal forecasting materials. That is why we give a unique forecast valid for the entire country without detailing for different regions except occasionally and only for the first month based on analysis of the medium range weather forecast. The forecast is summarized in tables with the favored categories in color as follows:

	warm		wet
	warm to normal		wet to normal
	normal		normal
	cold to normal		dry to normal
	cold		dry
	not available		not available
	all categories are likely		all categories are likely

We call “season” any three-month period which corresponds to the way the numerical seasonal forecast products are provided by the centers. The name of a season in the tables below is constructed by the first letters of the names of the months in the three-month period. For example MJJ=May-Jun-July.

## 2. Summer forecast

We do not have a special forecast for the summer season. What we provide below is our latest regular seasonal forecast for Bulgaria which covers the upcoming summer season.

**Figure 7:** Latest regular seasonal forecast for Bulgaria issued at the end of April 2010.

Issue, Apr 2010	Temperature					Precipitation				
	10-days	Month	MJJ	JJA	JAS	10-days	Month	MJJ	JJA	JAS
May	01-10					01-10				
	11-20					11-20				
	21-31					21-31				
June										
July										
August										
September										