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# WEATHER OVERVIEW APRIL 2012 and WEATHER FORECAST FOR MAY 2012.

State Agency for Hydrometeorology of the Republic of  
Tajikistan

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REACT Meeting  
8<sup>th</sup> May, 2012

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April was characterized by moderately warm weather and significant rainfall. Average monthly air temperature was mostly 1-30 higher than normal, and only GBAO was at 1 below the norm, and were as follows:

- in the valleys and foothills of the 13-20o of heat,
- in the mountainous regions 6-130 heat for 3 + VGBAO 10.

Monthly amount of precipitation in most areas was higher only in Badakhshan lower than the average long-term rates and amounted to:

- in the valleys and foothills of the Khatlon region (35-119% of normal),
- regions of republican subordination (from the normal 44-144 %)
- in the valleys and foothills Sughd (40-124% of normal),
- and Badakhshan (36-54%, in the Murghab 455%).

- April 22-25 was characterized as unstable weather in connection with the release of the South Caspian Sea cyclone, with waves occurred, which caused intense rainfall in some Areas;
- April 22 (50 mm per night, Farkhar 48 mm per day, Hissar 19 mm per night, Penjekent 11 mm per three hours);
- April 23 heavy rains fell in Dushanbe within three hours 31 mm, Muminabad withing 6 hours – 23 mm, Yavan 28 mm within 6 hours;
- April 28-29, an intensive process of precipitation rate was due to the completion stage of cyclonic activity. The convergence of the three fronts: subtropical, temperate and Arctic cooperation has led to moist unstable air masses: tropical, temperate and arctic.
- April 28, Yavan-54mm per day, Muminabad 43mm per day, Hissar per day 34mm, Muminabad-39mm a day, Dushanbe 59mm per day;
- Precipitation of varying intensity in most areas fell within 9-14 days.



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# **FORECAST MAY 2012**

## Khatlon Region and Valleys of Direct Ruled Districts

Average monthly air temperature is expected 1-3 above the norm and will be: warm in the valleys of 22-260 and 18-200 in the foothills;

Within a month, daily temperature fluctuation is assumed as:

- valley districts of republican subordination from 23-280 to 31-360 of heat;
- in the valleys of Khatlon region from 27-320 to 33-380 of heat;
- in the foothills of the 19-240 to 27-320 of heat;
- prevailing night-time temperature in the valleys of the DRS is expected to be 12-170, in the valleys of Khatlon region 16-210, in the foothills of 9-140 heat.

Monthly rainfall is less than expected and some areas within the norm: in the valleys of the DRS (54-73mm), in Khatlon region (12-72 mm) ,in the foothill areas (98-135 mm);

Variable weather, some rain of different variety, hail, thunderstorm and strong winds to 17-22 meter sec.

## ***Sughd Region***

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Average monthly air temperature is expected to be 1-20 above the norm and will be: of 23-240 in the valleys and 11-130 in the mountains;

Within a month, daily temperature fluctuation is assumed: the valley areas of the 24-290 to 31-360 warm and in the mountains from 15-200 to 21-260 warm;

The predominant night time temperatures in the valleys is expected warm: 14-190, 4-90 in the mountains areas;

Monthly rainfall is expected below the norm (norm in the valleys: 17-40mm, in the mountainous regions: 45-74 mm);

Partly cloud with occasional showers of varying intensity, with thunderstorms are expected throughout the month. At times, the west wind increases to 18-23 m / sec.



## ***Mountainous Regions of Republican Subordination and Western Areas of Badakhshan***

- Average monthly air temperature is expected to be 1-20 above the norm and will be 15-170 warm;

The prevailing temperature is expected to fluctuate at night from 6.11 warm 10-150, 20-250 of the day to 25-300 warm.

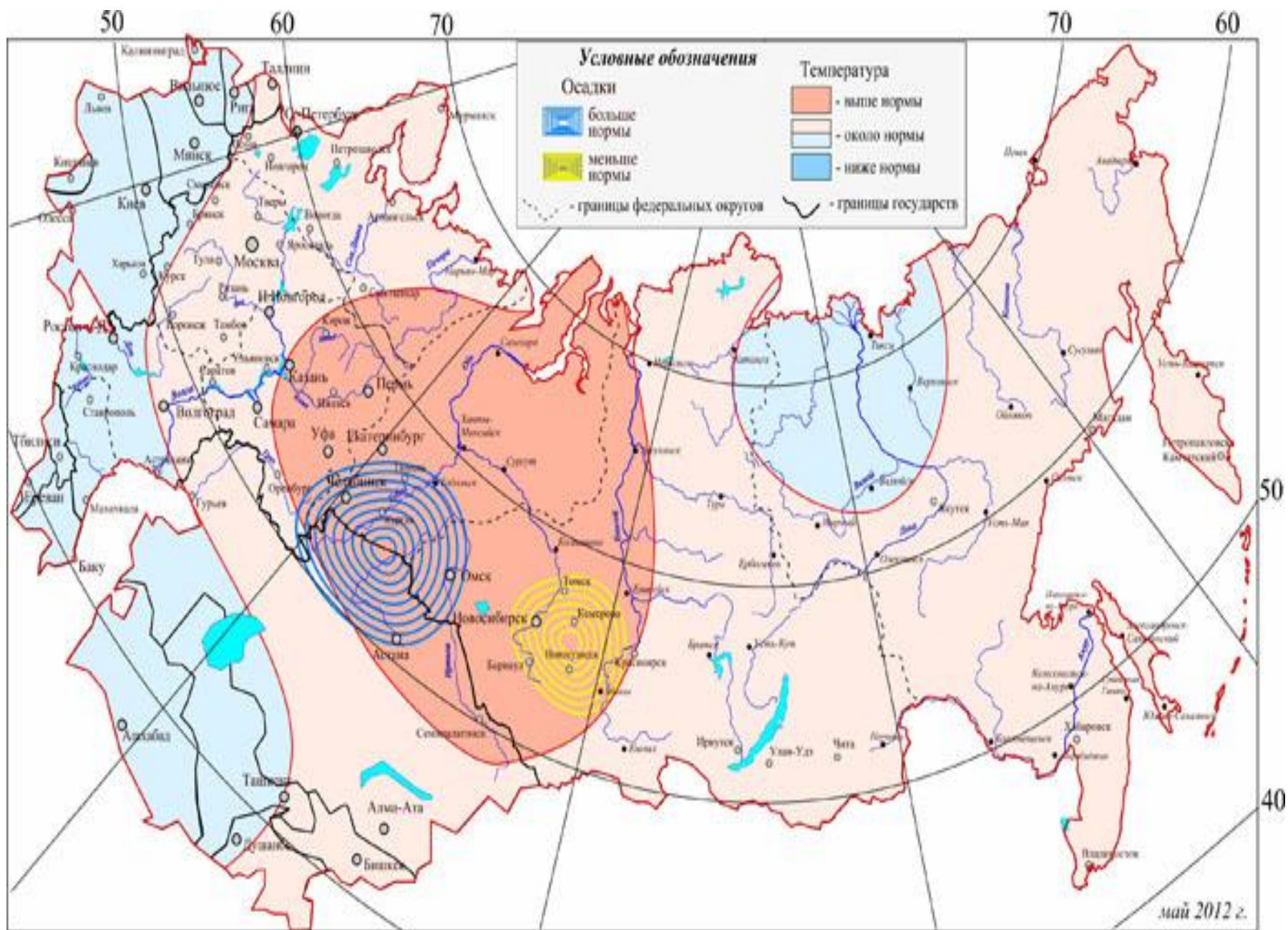
- Monthly rainfall is expected below the norm: The Mountainous Republican Subordination (norm 59-139 mm), the western regions of Badakhshan (normal 28-53 mm);
- Partly cloud, precipitation (mostly in the form of rain), on the southern slopes of the Hissar range at times strong in some areas are possible thunderstorms are expected throughout the month.

# ***Eastern Regions of GBAO***

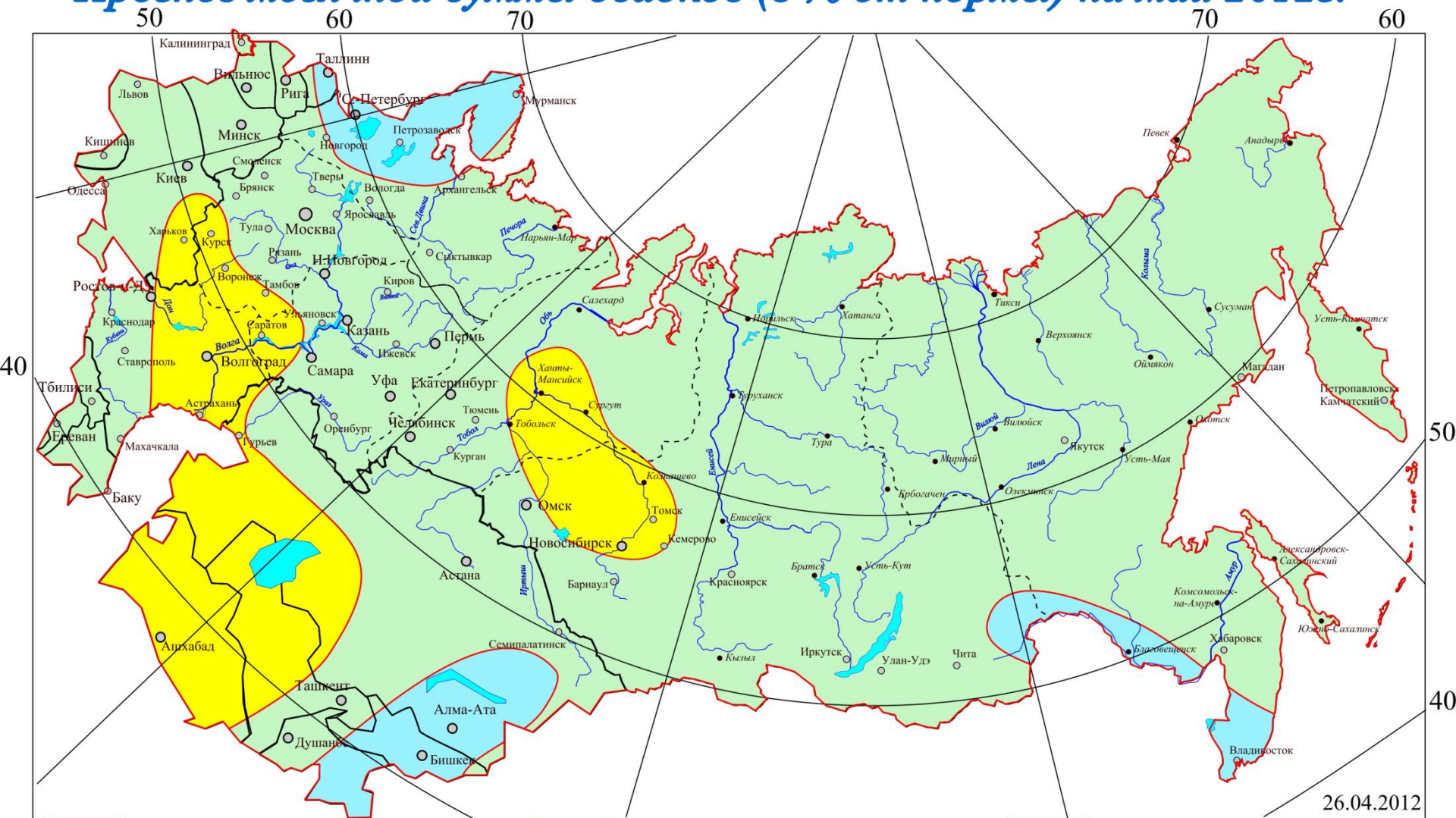
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- Average monthly temperature is expected to be 1-2 above the norm, and 4-5 warm.
- Fluctuation of temperature during the night by 0-5 to -2 3 frost, daily temperature from 11.6 to 10-15 Celsius is expected throughout month.
- Monthly rainfall is expected in some places above the norm (12-21 mm)..
- It is assumed that precipitation, mainly in the form of snow will fall in the first decade of the month.





# Прогноз месячной суммы осадков (в % от нормы) на май 2012г.





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Analysis for the last 65 years in the city of Dushanbe of May shows that the average annual air temperature was 1-20 higher long-term values in almost all regions of Tajikistan;

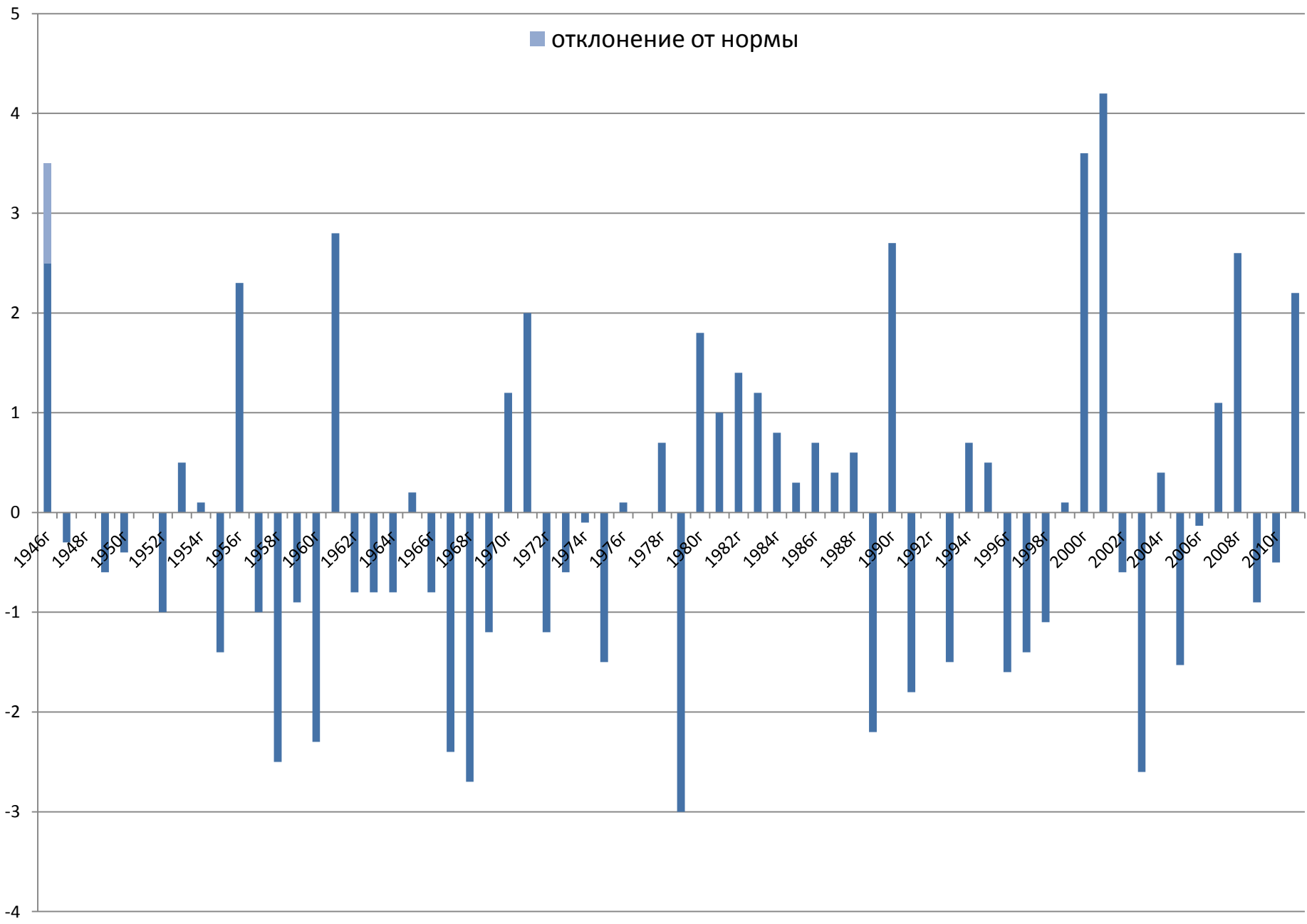
Driest years were 1956, 1961, 1971, 1990, 2000, 2001, 2008, 2011;

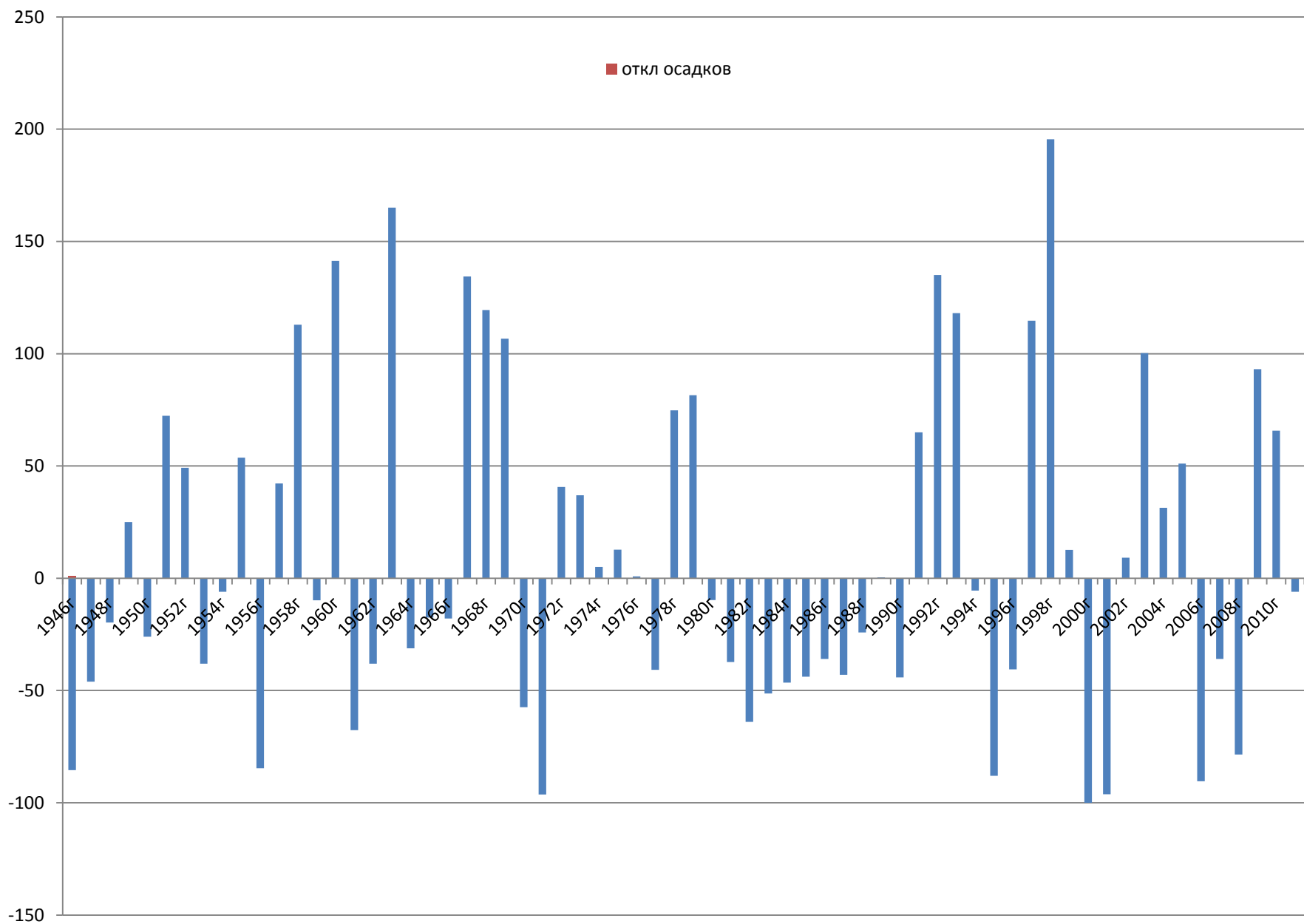
But there were years when the average air temperature was below normal in 1958, 1960, 1967, 1968, 1979, 1989, 2003;

From the above mentioned years of 2000's the temperature was abnormally warm and dry. Despite the fact that winter 2008 was an anomalous cold, the whole year was warm;

The most intense precipitation observed in 1960, 1963, 1967, 1992, 1998's. 1998 during the month fell at a rate of 190.5 mm 73.3 mm (259%) from the norm.







# THANK YOU

**State Agency for Hydrometeorology of the Republic of Tajikistan**

**Shevchenko Street 47, 734025, Dushanbe, Tajikistan**

**Tel: (+992 37) 221-41-24, (+992 37) 223-17-72;**

**Email: [forecast@meteo.tj](mailto:forecast@meteo.tj)**