

National Climate Bulletin and the assessment of the SEECOF-16 Climate outlook for Montenegro for the summer season

Draft template

(prepared by Slavica Micev)

- On the basis of the agreement made on SEECOF – 10, the suggested climatological reference period is 1981-2010. Indicate if some other base period was used.

Assessment were done for 2 different periods – spatial distribution by percentiles for 1961-1990 period, while chart below for the 1981-2010 by terciles' assessments.

- Submit the assessment of the season and spatial distribution of tercile air temperature and precipitation sums for the season - mandatory, per month – optional

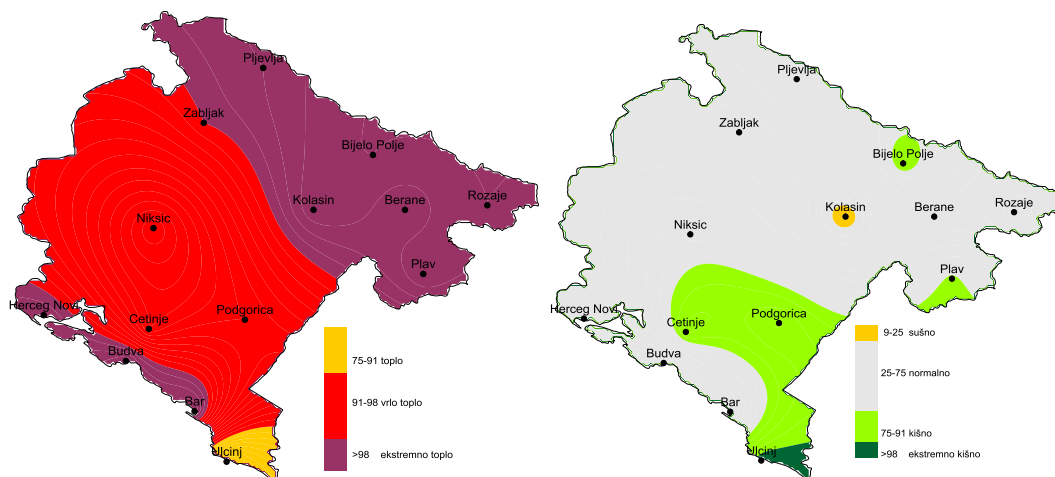


Figure 1. Percentile distribution of air temperature (left) and precipitation (right)

Air temperature during the summer was in categories from warm – very warm – extremely warm. Extremely warm was in the further north and east of the country and along the coast, figure 1. In the central part of Montenegro was very warm.

Normal conditions were predominant for precipitation while in the valley around capital town Podgorica and further south was wet and extremely wet, respectively (figure 1).

Average air temperature was in the range from 15.1 °C in Zabljak to 26.9 °C in Podgorica. All anomalies from climatological mean 1961-1990 were positive and in the range from 1 °C in Ulcinj to 3.6 °C in Rozaje.

Number of tropical days ($T_x \geq 30$ °C) was from 12 days in Kolasin to 72 in Podgorica. Number of tropical nights ($T_n \geq 20$ °C) was from 1 day in Pljevlja to 63 days in Budva.

Total amount of precipitation was in the range from 112 mm in Budva to 454 mm in Cetinje, i.e. in regard to climatological mean 1961-1990 70% in Budva to 276% in Ulcinj.

Number of days with precipitation ≥ 0.1 mm was from 13 days in Ulcinj to 37 days in Kolasin.

- Chart for the assessment of the season (identical charts for months - optional)

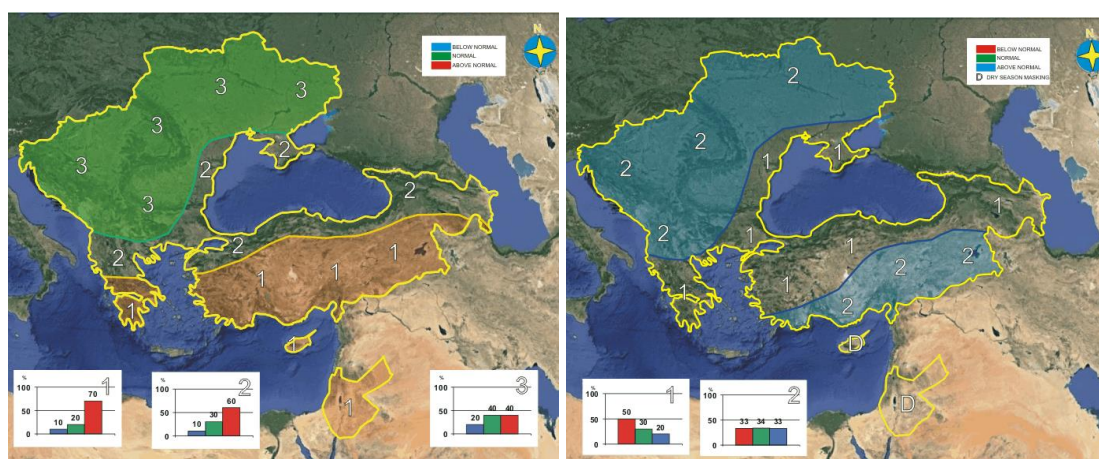
Season		Air Temperature (°C)						Precipitation sums (mm)			
Station	Rank*	33	50	66	Observed value	Rank*	33	50	66	Observed Value	
Podgorica	13	25.5	25.9	26.4	26.4	61	100.9	129.3	186.7	268	
Bar	5	22.9	23.3	24.1	25.3	40	96.8	124.9	164.2	140	
Niksic	17	20	20.3	20.9	20.9	57	159.5	192	228.3	298	
Zabljak	10	13.8	14.3	14.7	15.1	41	194.4	218.5	234	265	
Bijelo Polje	3	18.7	19.1	19.4	21.3	56	140.4	193.1	222.8	271	

*Rank: 1949-2016 period (warmest season and lowest seasonal precipitation)

Assessment of the SEECOF-16 Climate outlook for 2016 summer season

(prepared by Mirjana Ivanov)

- Chart for the previous season



Climate outlook for temperature (left) and precipitation (right)

Country	Seasonal temperature		Seasonal precipitation		High Impact
	Observed	SEECOF-16 climate	Observed	SEECOF-16 climate	

		outlook for temperature		outlook for precipitation	Events*
Montenegro	Above	Above or near normal	Normal in the large part of the country Above normal from central to southern part	No predictive signal	

Optional → * Events that had an impact on the society (events that caused great material damage to the society during previous season – on the basis of the assessment of the hydrometeorological service):

- 1) Record breaking maximum or minimum air temperatures, precipitation during season or for specific months (date and place of the event)
- 2) Heavy precipitation at the stations that caused flood with damage
- 3) In case of extreme season indicate the ranking, warmest or coldest (wettest or driest) (mandatory)
- 4) Heat waves or cold spells (with the specified criteria for heat/cold spell)
- 5) Anomalies of the number of days: frost, ice, days with severe frost, with snow cover, summer, tropical, tropical nights (depending on the season)
- 6) The occurrence of stormy wind gusts that caused damage to that area (date and place)
- 7) The occurrence of hail (date and place) that caused major damage
- 8) The occurrence of snow cover caused major damage
- 9) Snow cover in combination with wind gusts caused major damage
- 10) Drought (precipitation deficit) that caused fires or damage to agriculture and water supply
- 11) Other extreme events (tornado, spout)