

**VERIFICATION OF THE SEECOF 23 CLIMATE OUTLOOK FOR 2020 SUMMER
SEASON IN ARMENIA**

HYDROMETEOROLOGY AND MONITORING CENTER OF ARMENIA

CLIMATE DEVISION



Yerevan, 20 October 2020

Summer: Seasonal mean temperature (16,5 °C) was 0.8 degree above the norm (15,7°C). Seasonal precipitation (133 mm) was below the norm (90 % of the norm). Strong convection was observed leading intense hail, heavy precipitations, and strong wind.

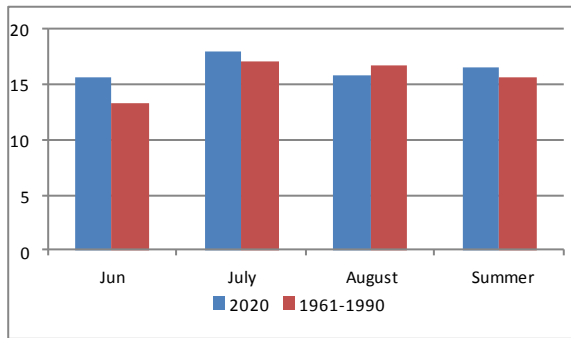


Fig1. 2020 Summer Temperature

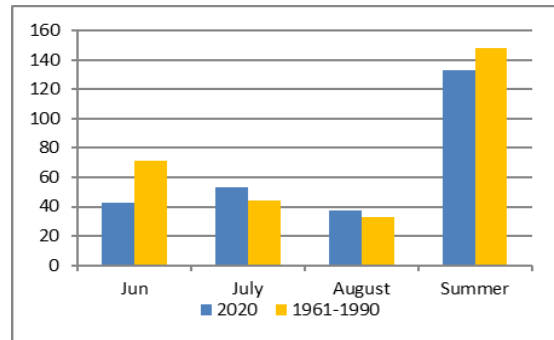


Fig2. 2020 Summer precipitation

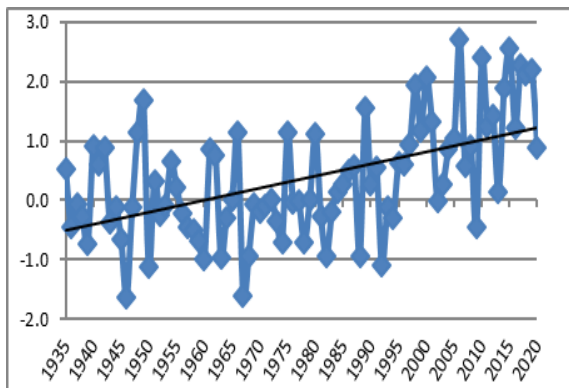


Fig3. . Summer Temperature anomalies

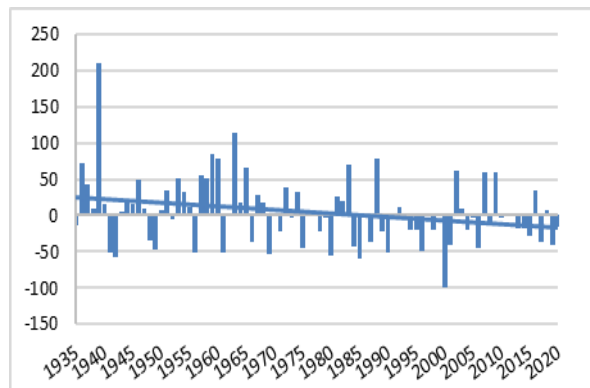


Fig4. Summer precipitation anomalies

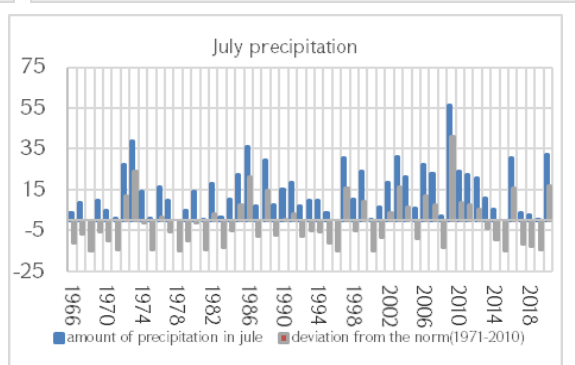
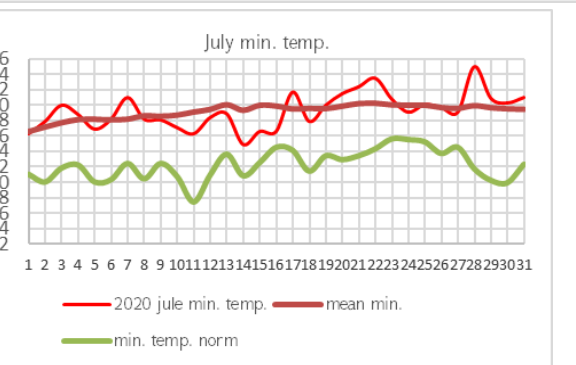
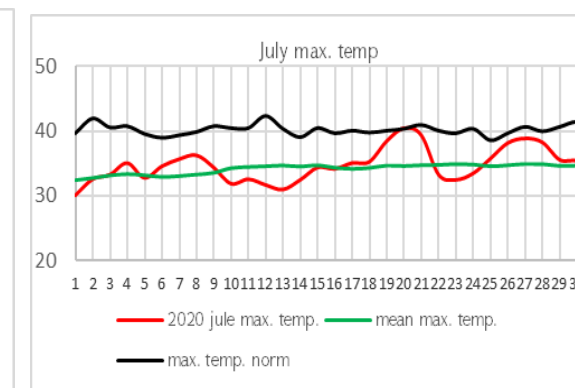
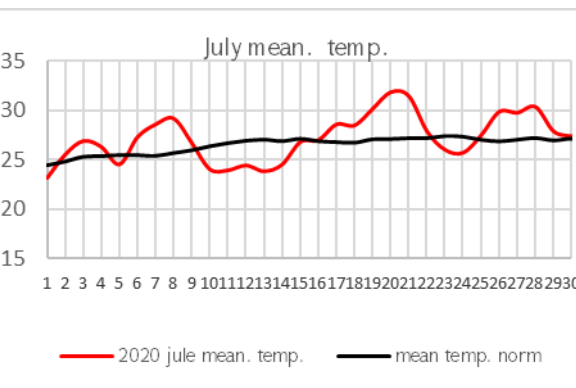
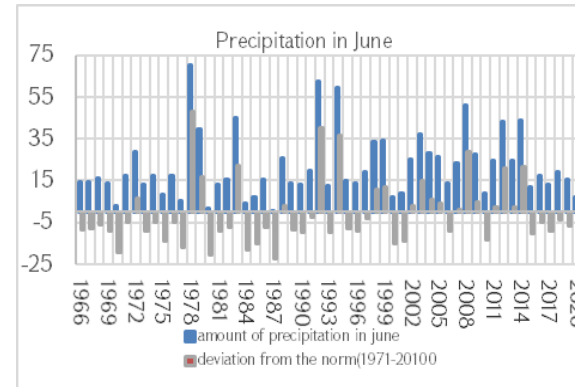
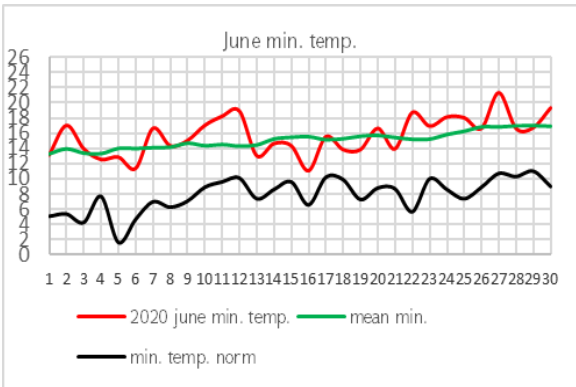
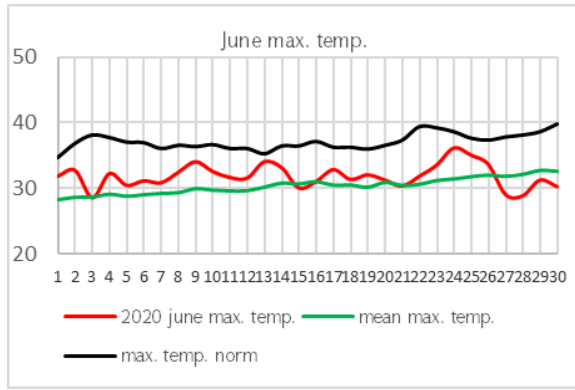
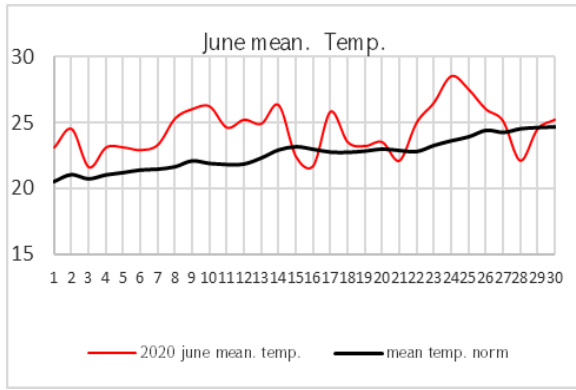
June the average temperature (15.6 °C) was 2.2 degree above the norm (13,4 °C). The precipitation was below the norm, it was only 60% of the norm and resulting drought in Ararat Valey and Syuniq region.

July the average temperature (18.1 °C) was 1 degree above the norm (17.1 °C). The precipitation was above the norm, it was 120% of the norm.

August: The average monthly air temperature 2020 was 1 degree below the norm. The montly precipitations amount was 114 % of the norm.

Yerevan. The deviation from the average monthly temperature in June in Yerevan was + 2.8 degrees. The maximum deviation was +5.3 degrees observed in 2006, the minimum - 2.5 degrees (1978). The amount of precipitation in June was 7.3 mm, which is 34% of the June norm.

The temperature deviation from the norm in July was +0.7 degrees. The maximum deviation was +3.4 degrees (2000), and the minimum - 2.3 degrees (1967). The amount of precipitation in July was 32 mm, which is 48% more than in July.



The average monthly temperature deviation from the norm in August is -1.4 degrees. The maximum deviation is +3.1 degrees (2017), and the minimum - 2.9 degrees (2009). The amount of precipitation in August was 6 mm, which is 3.1 mm less than the norm.

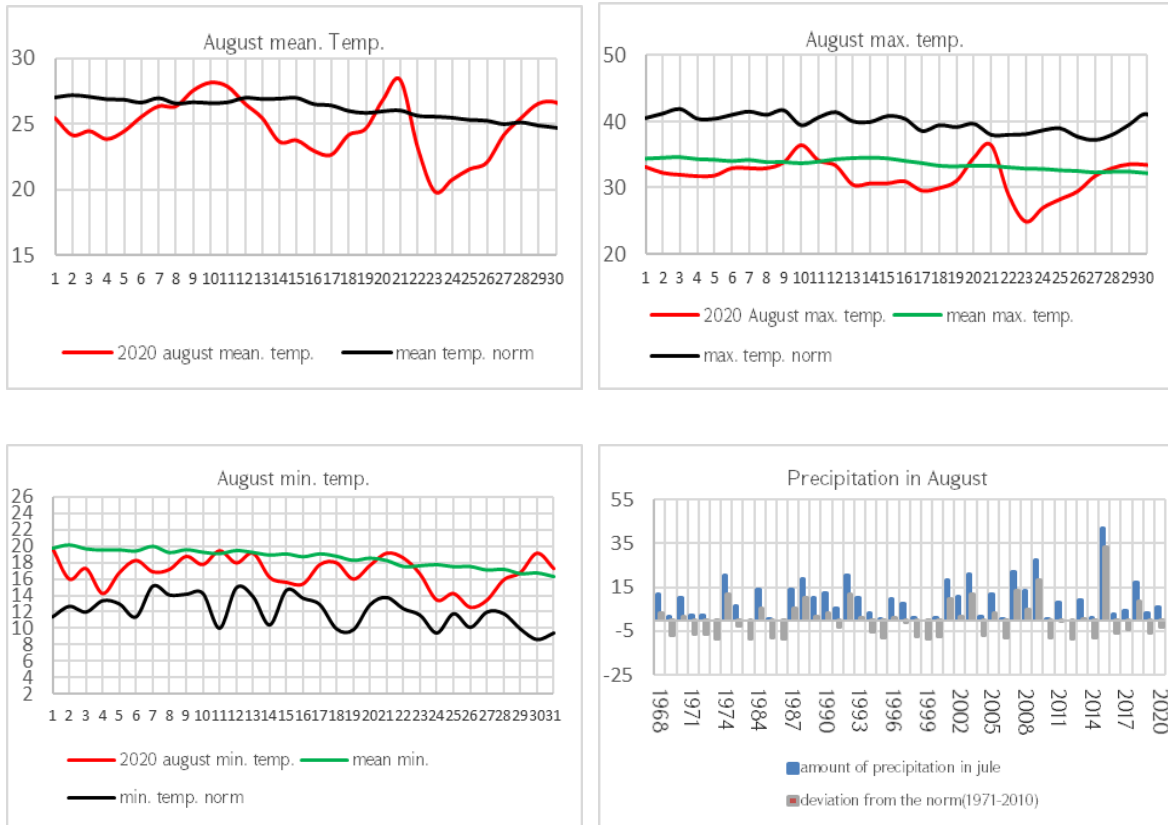


Fig 5 2020 Summer temperatur and Precipitations in Yerevan



Fig 6. Some observed climate risks

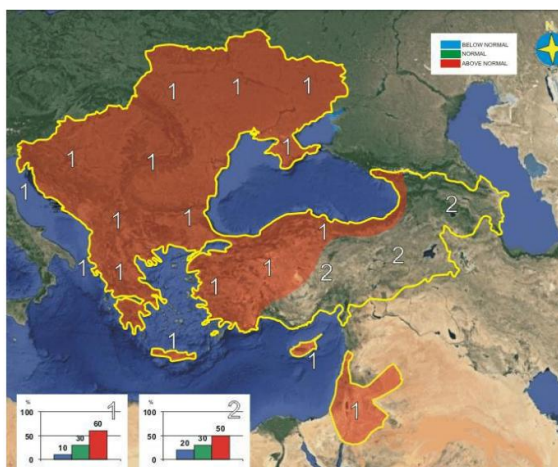


Fig7 „Grafical presentation of the 2020 summer temperatur outlook

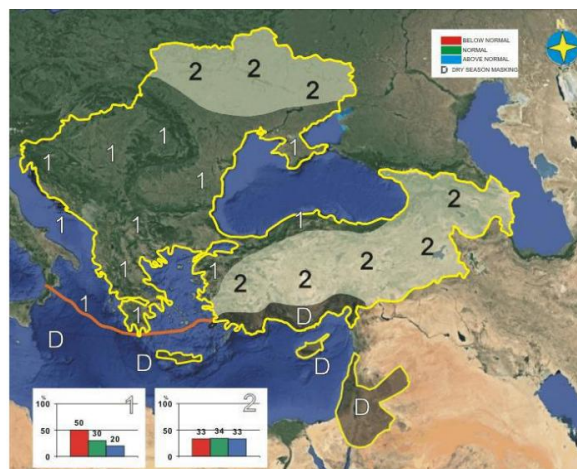


Fig 8,,Grafical presentation of the 2020 summer precipitation outlook

Verification showed that the forecast for dry summer was correct.

| Country | Seasonal temperature (JJA) | | Seasonal precipitation JJA | | High Impact Events |
|-------------|----------------------------|---|-------------------------------------|---|---|
| | Observed | SEECOF-23 climate outlook for temperature | Observed | SEECOF-23 climate outlook for precipitation | |
| Armenia (1) | Above normal | Above normal | Below the normal (90 % of the norm) | No predictive signal | <p>Extreme precipitation (41mm/3hour) on 19th of Jun in Gekharquniq region, (51mm/4.5 hour) in Lori region, 81mm/3.25hour inGyumri (13.VII) , 34mm/5hour in Syuniq region was recorded.</p> <p>Hail:Unusual hail in Shirak region</p> <p>Flooding in Gyumri: (https://www.youtube.com/watch?v=38FZUW1fywQ)</p> <p>Forest fires: On June, a large fire broke out in Khosrov reserve, burning specially protected areas.</p> <p>Cold wave: August 21-28 a cold wave was registered, which was especially strong in the south-eastern regions. The minimum temperature in those days was recorded 0 ° C in Ashotsk, 1 ° C in Martini, - 1 ° C in Pushkin mountain pass, which are the lowest temperatures ever recorded in August in this areas.</p> <p>Drought during the summer in lowland areas strong drought was detected.</p> <p>Wind storm: During summer strong wind above(25m/sec) was observed, in Vaanadzor it is unusuall for Summer time.</p> |

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