

Seasonal weather forecast for the months of

February, March and April 2021

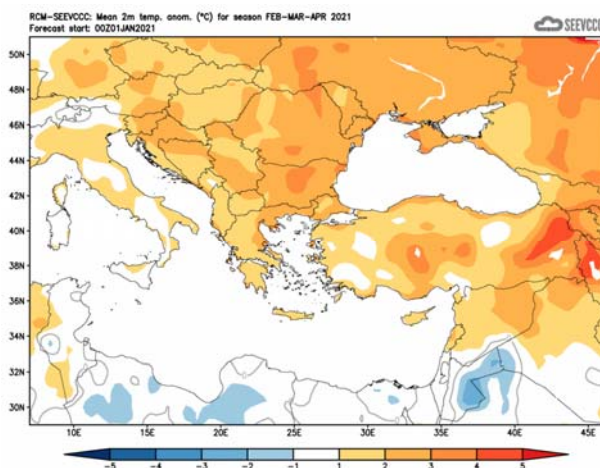
General over view of the weather expected to prevail during February, March and April.

The weather for the following period consists of a part (**February**) of the traditional winter, where the most of the annual accumulated precipitation is climatologically expected, while in the period in focus normal temperatures (both maximum and minimum) are significantly lower than the other months of the year (except **January**) and the first two months (**March** and **April**) of the traditional Spring, which is also a part of the period of forecast. During the period, the frequency of baroclinic depressions affecting the area is at its most resulting in higher accumulated precipitation amounts.

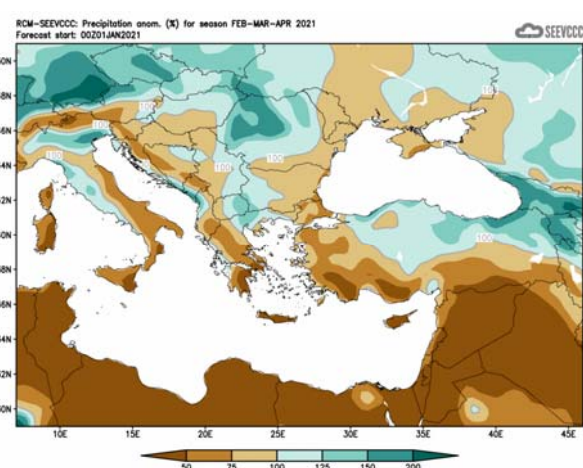
Seasonal forecast for the next three months

Regarding the seasonal forecast for the period of the last winter season month (**February**) and the first two spring season months (**March** and **April**) the temperature is expected to be generally above normal by 1 to 2°C. The amount of the accumulated precipitation is disappointing. The accumulated precipitation will range below 50% of normal. Similar characteristics are also applicable for the surrounding area (*).

Bearing in mind the model's suggestion (the results of which are presented in graphical form in the following charts) and also the long climatology of the area of Cyprus during **February** days with snow and cold outbreaks cannot be excluded while also isolated high accumulations may be recorded during the period.

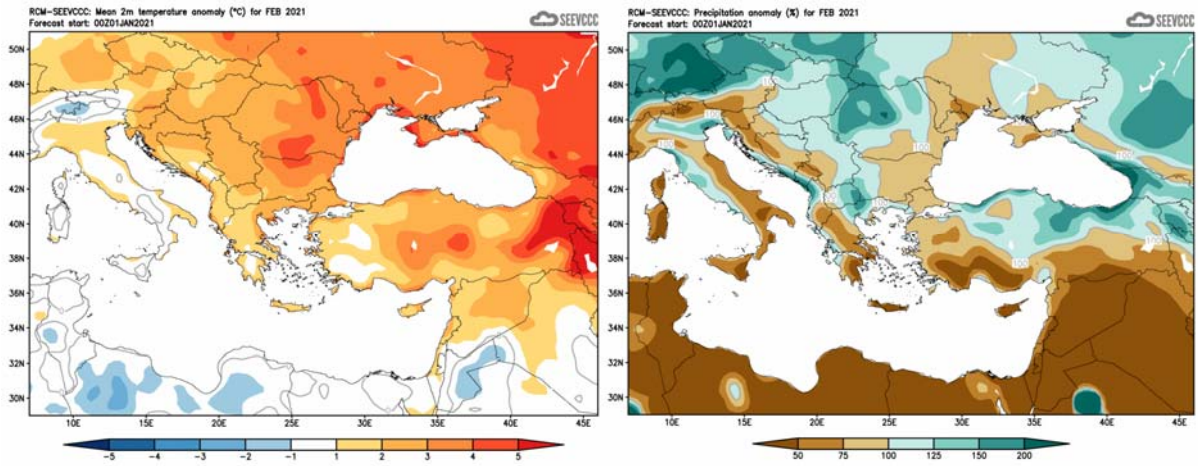


Divergence of temperature from normal from the mean seasonal temperature (°C) for February, March and April



Percentage (%) of the mean seasonal accumulated precipitation compared to the mean normal for February, March and April

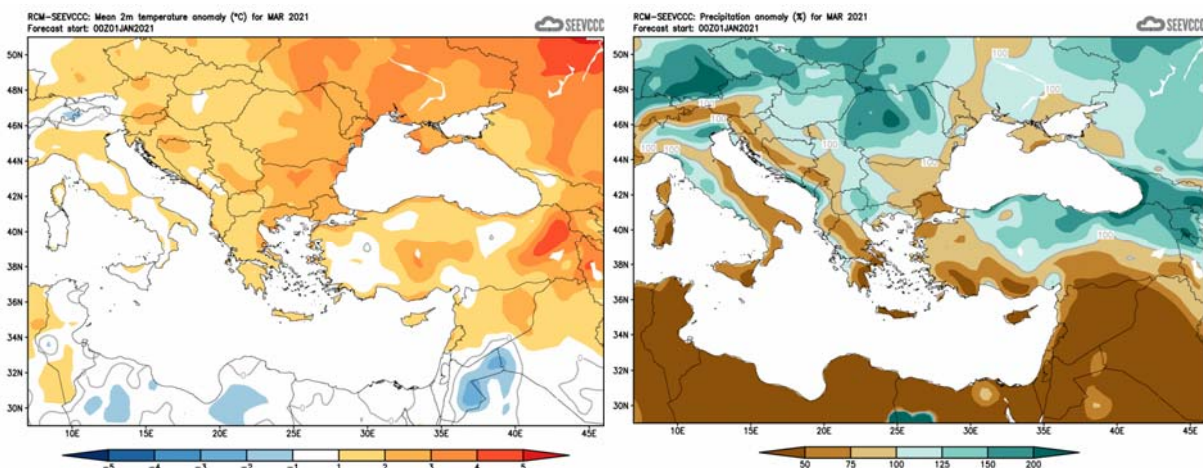
The seasonal forecast for **February** suggests a warmer and drier than normal month. **February** will be warmer than normal by 1°C to 2°C, while the accumulated precipitation is again disappointing since the forecast suggests a mainly dry month with accumulation ranging in almost all over the island below 50% of normal. The above temperature and accumulated precipitation characteristics apply also for the surrounding area (*).



Divergence of the mean monthly temperature (°C) from normal during February

Percentage of the mean monthly precipitation (%) compared with the normal of February

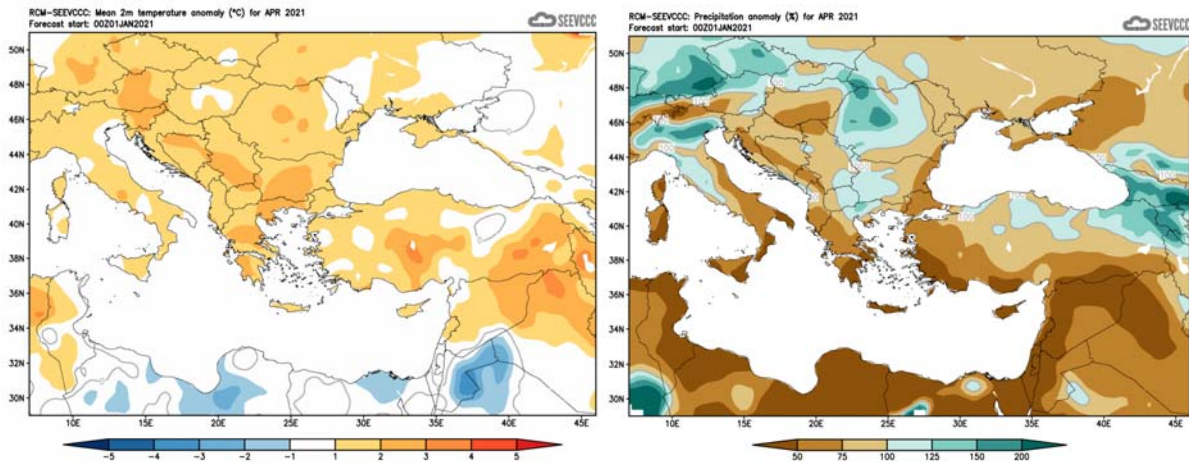
The seasonal forecast for **March** is almost similar to the one of the previous month suggesting that **March** will be warmer than normal by 1°C to 2°C. The accumulated precipitation of **March** is again disappointing since the forecast suggests that all over the island the accumulated precipitation will range below 50% of normal. The above temperature and accumulated precipitation characteristics apply also for great parts of the surrounding area (*).



Divergence of the mean monthly temperature (°C) from normal during March

Percentage of the mean monthly precipitation (%) compared with the normal of March

The seasonal forecast for **April** is again similar to the one of the previous month suggesting that **March** will be warmer than normal by 1°C to 2°C. The accumulated precipitation of **March** is again disappointing since the forecast suggests that all over the island the accumulated precipitation will range below 50% of normal. The above temperature and accumulated precipitation characteristics apply also for great parts of the surrounding area (*).



Divergence of the mean monthly temperature (°C) from normal during April

Percentage of the mean monthly precipitation (%) compared with the normal of April

Normal values of temperature (mean maximum and mean minimum) and accumulated precipitation for February, March and April

The normal values of mean maximum, mean minimum temperature and accumulated precipitation are presented below for sample stations, concerning the three months the period of forecast is covering, in order to gain a better view of the normal seasonal climate. The temperatures, both maximum and minimum, of **February** are the lowest climatological temperatures of the period while **February**s accumulated precipitation has the greater value of the period, as a result of the increased frequency of reoccurrence/redeveloping of depressions over the area of the east Mediterranean. During **March**, a transitional month from winter to summer, an increase of mean maximum and mean minimum temperature is noted with a simultaneous drop of the accumulated precipitation over all sample stations. A further temperature increase and accumulated precipitation significant decline is observed during **April**.

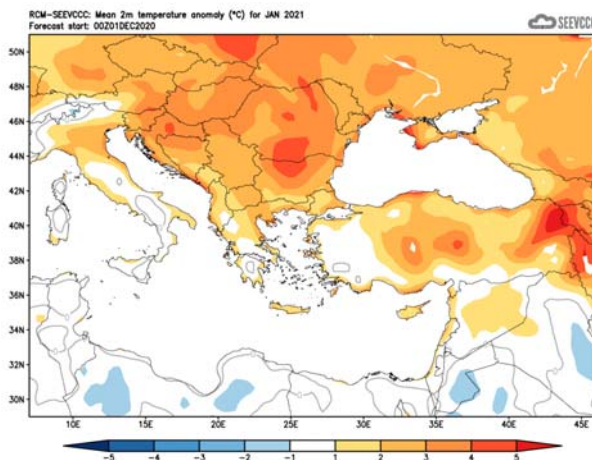
TEMPERATURE AND PRECIPITATION NORMAL VALUES FOR THE PERIOD 1981-2010									
Area Name	MEAN DAILY MAXIMUM TEMPERATURE (°C)			MEAN DAILY MINIMUM TEMPERATURE (°C)			MEAN MONTHLY TOTAL PRECIPITATION (mm)		
	Feb	Mar	Apr	Feb	Mar	Apr	Feb	Mar	Apr
NORTH COAST	16.3	18.3	21.6	7.3	8.3	10.8	68.5	45.7	21.8
WEST COAST*	17.1	18.6	21.5	8.1	8.9	11.5	59.8	34.4	15.2
MOUNTAINOUS AREAS	6.7	10.4	15.5	0.5	2.8	6.6	128.7	92.1	47.2
INLAND*	16.0	19.2	24.4	5.3	6.9	10.4	44.5	31.9	19.1
SOUTH COAST	17.0	19.3	22.7	7.1	8.6	11.8	50.3	35.8	14.2
EAST COAST**	16.5	19.1	23.2	6.3	7.8	10.9	50.7	35.2	19.7

* West Coast and Inland Values cover the period 1983-2010

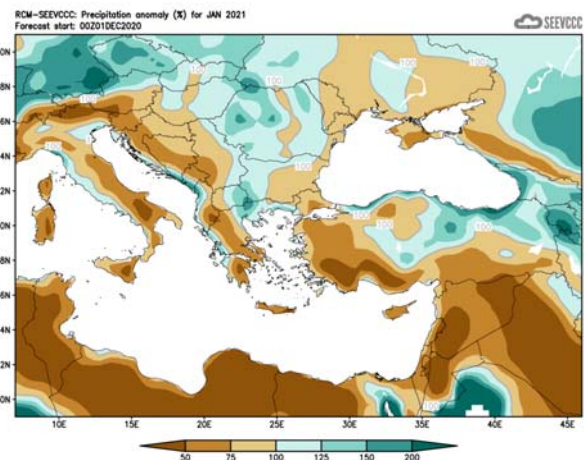
** East Coast Temperature Values cover the period 1981-2007

Evaluation of January's seasonal forecast for the area of Cyprus

The seasonal forecast for **January 2021** suggested that temperature would be above normal (by 1°C to 2°C). The accumulated precipitation of **January** was again disappointing since the forecast suggested a mainly dry month with accumulation ranging between 50% to 75% of normal. Low accumulations were characterizing all the surrounding area.



Divergence of the mean monthly temperature (°C) from normal during January



Percentage of the mean monthly precipitation (%) compared with the normal of January

From the provisional data recorded by the Department of Meteorology, for the selected portion of the meteorological stations, which are presented in the table below,

TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR JANUARY 2021														
St. No.	Station Name	Mean Daily Maximum Temperature (°C)	Normal Value (1981-2010)	Difference from Normal Value	Highest Daily Maximum Temperature (°C)	Lowest Daily Maximum Temperature (°C)	Mean Daily Minimum Temperature (°C)	Normal Value (1981-2010)	Difference from Normal Value	Lowest Daily Minimum Temperature (°C)	Highest Daily Minimum Temperature (°C)	Monthly Total Precipitation (mm)	Normal Value (1981-2010)	Difference from Normal Value
41	POLIS CHRYSOCHOUS	-	16,3		23,7	13,9	-	7,6		4,5	15,0	104,9	85,3	19,6
82*	PAFOS (AIRPORT)	19,5	17,1	2,4	23,4	13,8	10,5	8,3	2,2	3,9	16,4	82,4	78,8	3,6
225	PRODROMOS (C.F.C.)	10,0	6,3	3,7	19,7	1,3	2,0	0,7	1,3	-4,7	9,8	196,7	150,0	46,7
666*	ATHALASSA (RADIOSONDE)	18,7	15,5	3,2	22,7	10,8	5,8	5,4	0,4	-0,7	11,7	46,2	48,8	-2,6
731	LARNAKA (AIRPORT)	19,3	16,8	2,5	22,2	12,4	9,6	7,5	2,1	2,4	14,6	64,4	73,7	-9,3
800**	ACHNA (DASAKI)	18,6	16,3	2,3	22,8	10,4	7,9	6,6	1,3	-0,7	12,5	50,6	67,3	-16,7

* Pafos' and Athalassa's Station Normal Values cover the period 1983-2010
** Achna's Temperature Normal Values cover the period 1981-2007

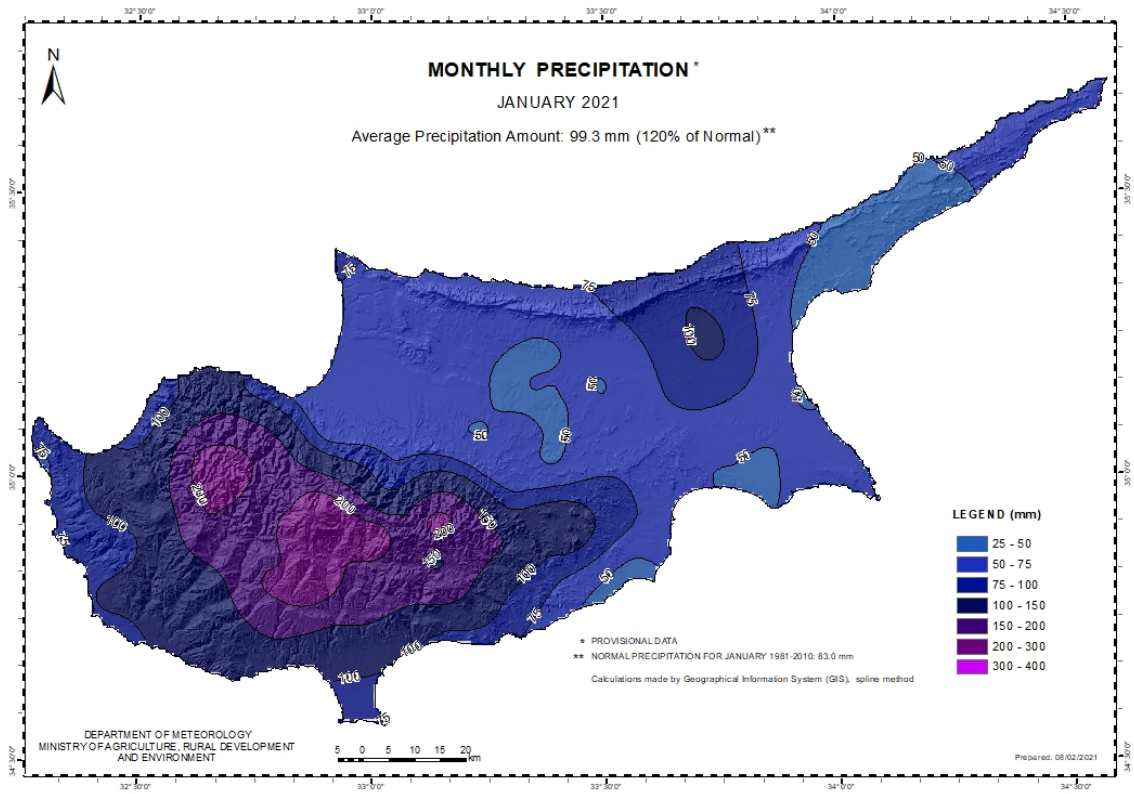
= VALUES FROM AUTOMATIC WEATHER STATION

it seems that the model performed well on the evaluation of the temperature, since it forecast correct the temperature anomalies. But, the model didn't perform well in the evaluation of the accumulated precipitation, which was well above normal. **January** was warmer than it was expected. From the recorded data is shown that the mean daily maximum and the mean daily minimum temperatures were above normal, not only inland but also for the coastal areas. Extreme high temperatures were recorded, as an example Prodrornos recorded a highest daily maximum of 19.7°C (with the normal being 6.3°C) and Polis Chrysochous recorded a highest daily maximum of 23.7°C (with the normal being 16.3°C). Extremes low temperatures were also recorded, as an example note the lowest daily minimum temperature of Achna that was -0.7°C (with a normal of 6.6°C) and the lowest daily minimum temperature of Athalassa that was -0.7°C (with a normal of 5.4°C).

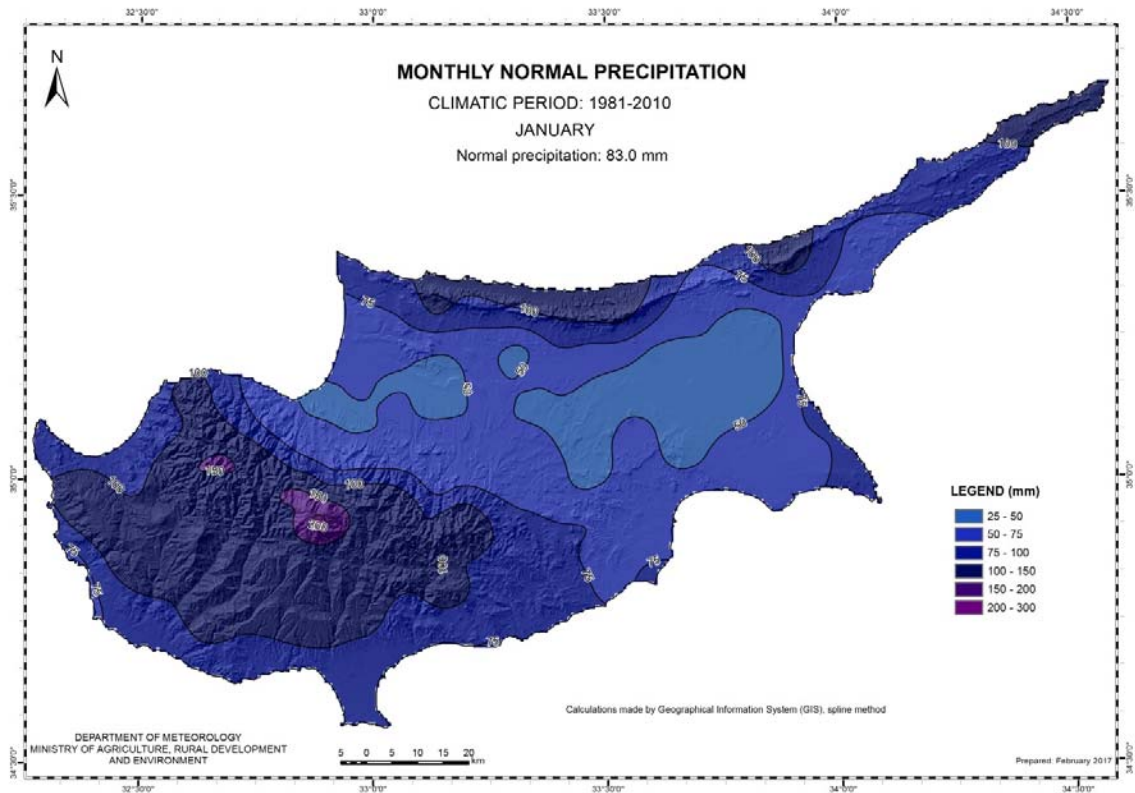
From the provisional data recorded by the Department of Meteorology the model did not perform well over the amount of the accumulated precipitation, as the actual accumulated precipitation was more than the expected. During the periods 13-20, 25 and 27-30 of **January** local showers and thunderstorms resulted in accumulated precipitation of 99.3mm or 120% of normal. It is worth mentioning that on the 13th of **January** hail was reported. Also, for the 13, 16-19, 28-29 and 30-31 of **January**, EMMA yellow level warnings for rainfall, wind and thunderstorms were issued.

It is worth mentioning that based on the provisional data there were 8 days of snow during **January**, 13-14, 17-19 and 27-29 of **January**.

For the purpose of better visualization of **January** accumulated precipitation, a chart of Cyprus with the total preliminary accumulated precipitation is presented.



A Cyprus chart with the normal (period 1981 to 2010) accumulated precipitation for the month of **January** is also presented.



(*) It is stated that due to the failure of the seasonal model to correctly forecast the expected precipitation (sometimes) the seasonal forecast for precipitation is given with a reserve.