

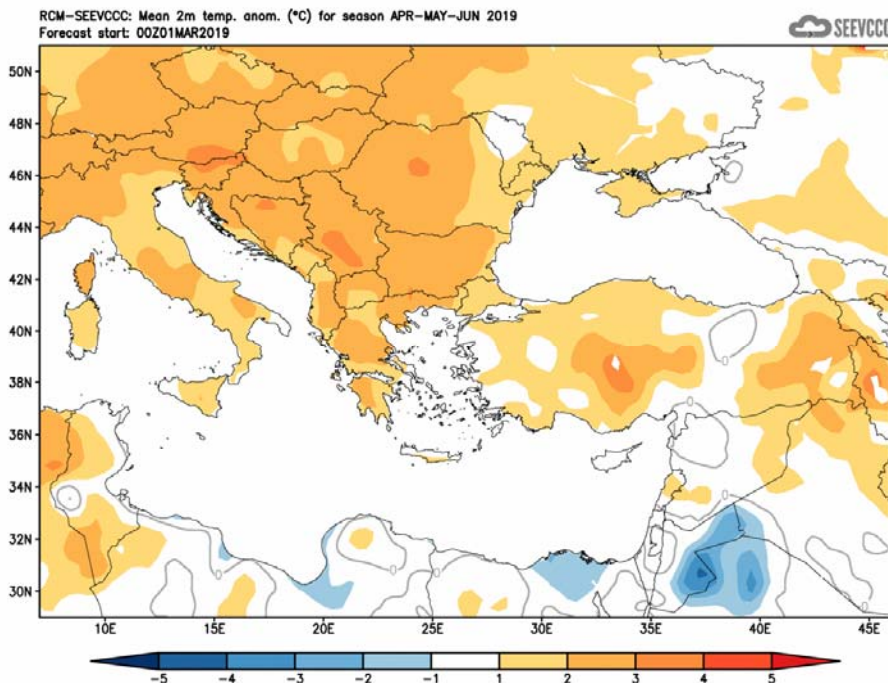
## Seasonal weather forecast for the months of

### April, May and June 2019

#### General over view of the weather expected to prevail for April, May and June.

The weather for the following three months period, namely **April, May and June 2019**, will be presented, with respect to the anomalies of temperature, and accumulated precipitation. In general the normal temperatures (both maximum and minimum), are on the rise. The accumulated precipitation starts declining, since barometric systems over the area resulting in from dynamic causes, are not frequent and are getting progressively rare during the period in focus. The period of the following three months is likely to be characterized from thermal instability, with outbreaks of thunderstorms, initiated from dynamic (rarely) and/or thermal (mainly) causes, mainly during afternoon hours. Dust episodes are also likely during the first two month as of the period. From historical data, **April** contributes only with a couple of snow days to the total snow day's number of the hydrological year.

Specifically, regarding the seasonal forecast for the period **April, May and June 2019**, the temperature will be generally normal. Normal to above normal temperature characterizes the northern and western coastal areas of the surrounding eastern Mediterranean, while the southern and eastern surrounding coastal areas of the eastern Mediterranean will be normal to slightly below normal.



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

The amount of the accumulated precipitation over Cyprus is expected to be normal and probably more than normal.

### Normal values of temperature and accumulated precipitation for April, May and June

The normal values of mean maximum, mean minimum temperature and accumulated precipitation are presented below concerning the three months of the period of forecast is covering, in order to gain a better view of the normal seasonal climate. The period of forecast is the transitional period in which the atmosphere switches from its winter pattern to the summer one. The temperature, both maximum and minimum, is on the rise with **June's** temperature significantly higher than **April's** temperature.

On the other hand the accumulated precipitation is declining, as presented by the climatological data shown on the table below. During **April** the accumulated precipitation notes a significant decline (if compared to **March** - not shown) which suggests that the frequency of the approaching barometric lows declines significantly if not vanish. A further decline of the accumulated precipitation is observed on **May** and **June**.

**April, May** and **June** are climatologically suggested to be unstable months with thundery activity initiated mainly by thermal causes. From the table below, note also the effect of the mountainous area of Troodos range over the accumulated precipitation, mainly as a result of thundery activity which is affecting primarily the mountainous ranges of the island. The accumulated precipitation over Prodomos station although declining towards May is always significantly higher, if compared to the accumulated precipitation of the other selected stations.

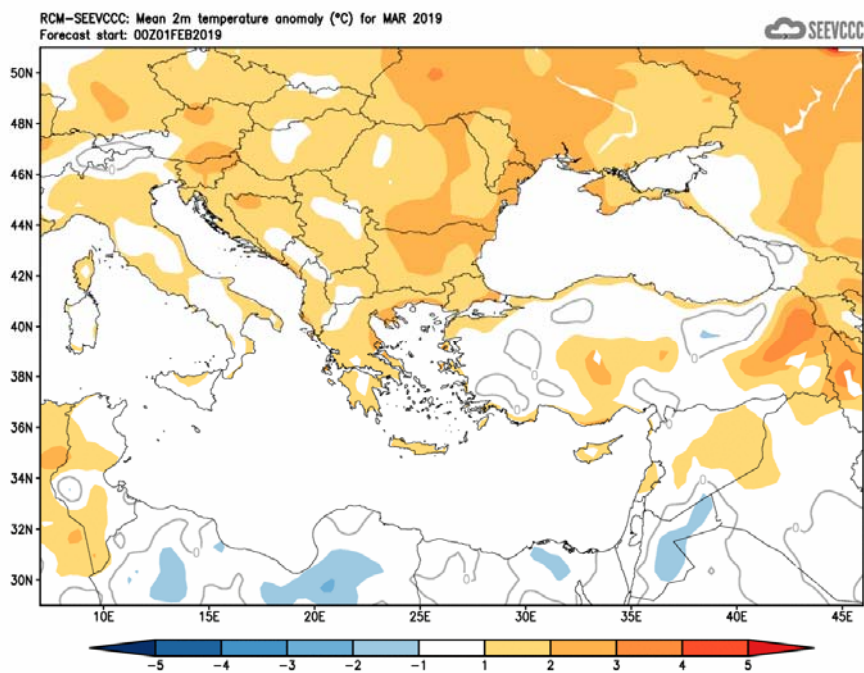
| TEMPERATURE AND PRECIPITATION NORMAL VALUES FOR THE PERIOD 1981-2010 |                                     |      |      |                                     |      |      |                                       |      |      |
|--|-------------------------------------|------|------|-------------------------------------|------|------|---------------------------------------|------|------|
| Area Name  | MEAN DAILY MAXIMUM TEMPERATURE (°C) |      |      | MEAN DAILY MINIMUM TEMPERATURE (°C) |      |      | MEAN MONTHLY TOTAL PRECIPITATION (mm) |      |      |
|  | April                               | May  | June | April                               | May  | June | April                                 | May  | June |
| NORTH COAST  | 21.6                                | 25.8 | 30.3 | 10.8                                | 14.3 | 18.5 | 21.8                                  | 7.6  | 1.8  |
| WEST COAST*  | 21.5                                | 24.5 | 27.6 | 11.5                                | 14.7 | 18.0 | 15.2                                  | 6.1  | 1.3  |
| MOUNTAINOUS AREAS  | 15.5                                | 20.4 | 25.0 | 6.6                                 | 10.8 | 15.0 | 47.2                                  | 32.0 | 27.2 |
| INLAND*  | 24.4                                | 29.6 | 34.0 | 10.4                                | 14.8 | 19.1 | 19.1                                  | 24.6 | 11.6 |
| SOUTH COAST  | 22.7                                | 26.4 | 30.2 | 11.8                                | 15.7 | 19.4 | 14.2                                  | 9.8  | 2.0  |
| EAST COAST**   | 23.2                                | 27.4 | 31.0 | 10.9                                | 14.9 | 18.9 | 19.7                                  | 10.7 | 1.8  |

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

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

## Evaluation of March seasonal forecast for the area of Cyprus

The seasonal forecast suggested that **March's** temperature would be normal, except coastal areas that the temperature expected to be slightly above normal (around 1 to 2°C). The temperature over the surrounding area would also be normal to slightly above normal.



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, is evident that the model performed relatively well concerning the temperature anomaly.

The seasonal forecast for **March** suggested that temperature would be normal to slightly above normal. From the recorded data is shown that most of the mean daily maximum and mean daily minimum temperatures were slightly above normal.

The accumulated precipitation was very high as presented from the table above. From the distribution (provisional accumulated precipitation chart) of the accumulated precipitation of **March** is evident that the surface distribution was well above the expected reaching 78.1mm (159% of normal).

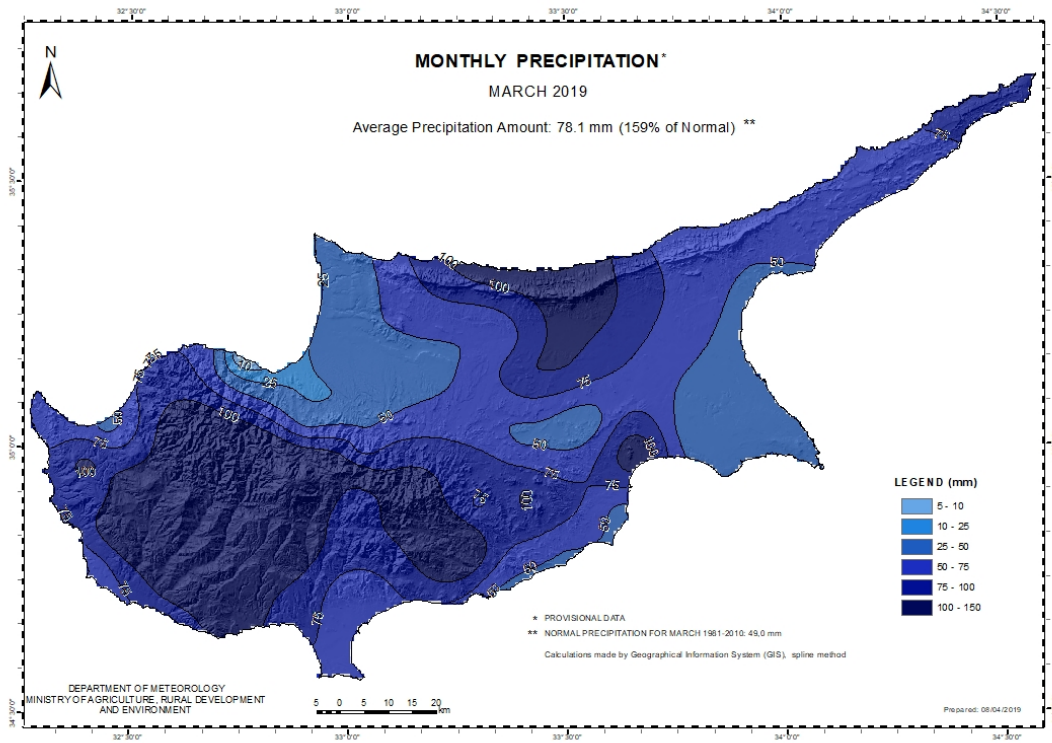
For the periods 1-5, 12-17, 24 and 27-31 of **March** local showers, accompanied with thunderstorms most of the times, were recorded. It is worth mentioning that on the 4<sup>th</sup> , 12<sup>th</sup> ,13<sup>th</sup> ,15<sup>th</sup> and 24<sup>th</sup> of **March** hail was reported.

Based on the provisional data, snowfall was recorded during on the 2<sup>nd</sup> , 3<sup>rd</sup> , 13<sup>th</sup> , 15<sup>th</sup> , 24<sup>th</sup> και 31<sup>st</sup> of **March**.

On the 2<sup>nd</sup> , 13<sup>th</sup> , 29<sup>th</sup> and 30<sup>th</sup> of **March** EMMA yellow warnings were issued concerning rain and thunderstorms.

| TEMPERATURE AND PRECIPITATION PROVISIONAL DATA FOR MARCH 2019   |                        |                                     |                          |                              |  |                                       |                                     |                          |                              |                                       |  |                                  |                          |                              |
|---|------------------------|-------------------------------------|--------------------------|------------------------------|--|---------------------------------------|-------------------------------------|--------------------------|------------------------------|---------------------------------------|--|----------------------------------|--------------------------|------------------------------|
| 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      | 18.8                                | 18.3                     | 0.5                          | 22.4                                   | 15.8                                  | 9.2                                 | 8.3                      | 0.9                          | 4.1                                   | 11.7                                   | 41.4                             | 45.7                     | -4.3                         |
| 82*   | PAFOS (AIRPORT)        | 19.1                                | 18.6                     | 0.5                          | 21.6                                   | 16.6                                  | 9.6                                 | 8.9                      | 0.7                          | 3.2                                   | 15.1                                   | 67.2                             | 34.4                     | 32.8                         |
| 225   | PRODROMOS (C.F.C.)     | 11.1                                | 10.4                     | 0.7                          | 17.1                                   | 3.3                                   | 2.1                                 | 2.8                      | -0.7                         | -3.7                                  | 6.6                                    | 146.2                            | 92.1                     | 54.1                         |
| 666*  | ATHALASSA (RADIOSONDE) | 20.5                                | 19.2                     | 1.3                          | 25.5                                   | 14.9                                  | 7.6                                 | 6.9                      | 0.7                          | 1.5                                   | 12.3                                   | 94.5                             | 31.9                     | 62.6                         |
| 731   | LARNAKA (AIRPORT)      | 19.9                                | 19.3                     | 0.6                          | 24.2                                   | 16.8                                  | 9.3                                 | 8.6                      | 0.7                          | 3.4                                   | 13.0                                   | 40.4                             | 35.8                     | 4.6                          |
| 800**   | ACHNA (DASAKI)         | 18.8                                | 19.1                     | -0.3                         | 24.3                                   | 15.0                                  | 7.6                                 | 7.8                      | -0.2                         | 0.7                                   | 11.8                                   | 66.5                             | 31.7                     | 34.8                         |
| <p>* Pafos' and Athalassa's Station Normal Values cover the period 1983-2010<br/> ** Achna's Temperature Normal Values cover the period 1981-2007</p> |                        |                                     |                          |                              |  |                                       |                                     |                          |                              |                                       |  |                                  |                          |                              |
| = VALUES FROM AUTOMATIC WEATHER STATION   |                        |                                     |                          |                              |  |                                       |                                     |                          |                              |                                       | = VALUE FROM Xilotympou STATION        |                                  |                          |                              |

For the purpose of better visualization of **March** 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 is also presented.

