



# AGROMETEOROLOGICAL BULLETIN

*May 2012*  
*1st 10-day period*

- Temperature
- Relative Humidity
- Soil Temperature
- Sunshine Duration
- Precipitation
- Evaporation
- Growing Degrees
- Reference Evapotranspiration
- Accumulated Rainfall from the beginning of wet period
- Accumulated Reference Evapotranspiration
- Number of dry days



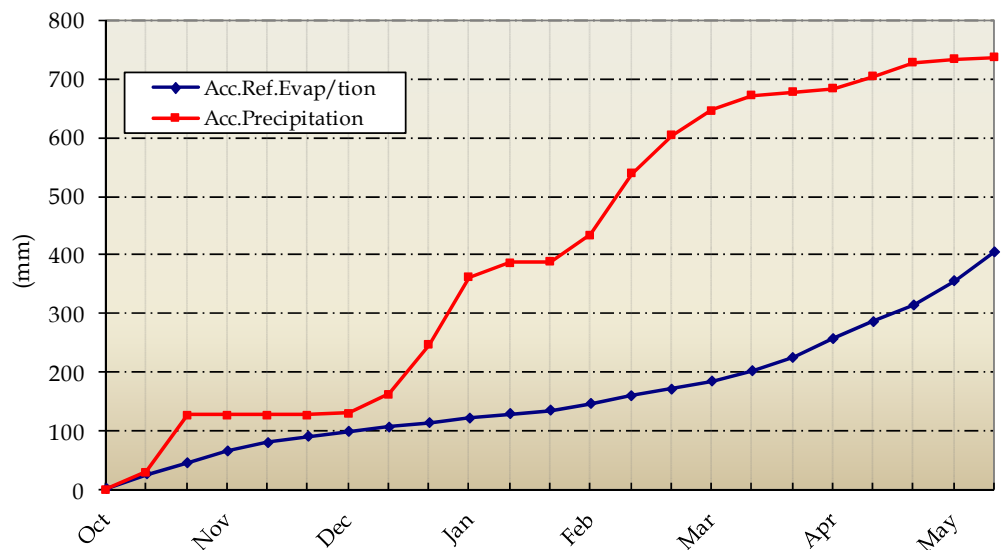
Hellenic National Meteorological Service  
Division of Climatology-Applications  
El. Venizelou Street 14, 16777  
Helliniko, Athens

*Web addresses of HNMS*  
[www.hnms.gr](http://www.hnms.gr)  
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[www.meteo.gov.gr](http://www.meteo.gov.gr)  
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| 1st 10-day period<br>(1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                         | Max    | 31.4 | 32.4 | 30.2 | 25.6 | 26.8 | 28.0 | 31.2 | 29.6 | 30.0 | 29.0 | 29.4                 | 23.0                   | 24.1                     |
|                                     | Min    | 10.4 | 12.4 | 12.2 | 11.2 | 10.6 | 10.8 | 10.6 | 16.4 | 11.4 | 12.4 | 11.8                 | 12.2                   | 10.8                     |
| Relative Humidity                   | Max    | 65   | 74   | 80   | 81   | 85   | 83   | 79   | 68   | 71   | 79   | 76                   | 92                     | -                        |
|                                     | Min    | 23   | 20   | 35   | 50   | 34   | 23   | 20   | 28   | 28   | 33   | 29                   | 48                     | -                        |
| Soil Temperature at 10 cm           | 06 UTC | 19.2 | 20.2 | 20.8 | 20.6 | 20.6 | 20.6 | 21.0 | 22.6 | 22.4 | 22.4 | 21.0                 | 18.0                   | 16.9                     |
|                                     | 12 UTC | 23.8 | 24.8 | 25.0 | 24.0 | 25.4 | 24.8 | 25.8 | 27.0 | 27.0 | 26.8 | 25.4                 | 20.3                   | 21.9                     |
| Sunshine Duration                   |        | 12.2 | 12.8 | 11.2 | 11.8 | 12.4 | 12.1 | 11.3 | 11.5 | 9.7  | 10.0 | 11.5                 | 9.1                    | 7.8                      |
| Precipitation                       |        |      |      |      |      |      |      |      |      |      | 3.4  | 3.4                  | 34.4                   | 17.1                     |
| Evaporation                         |        | 7.9  | 7.3  | 9.9  | 8.7  | 8.4  | 9.9  | 12.4 | 9.0  | 12.5 | 6.5  | 92.5                 | 55.9                   | 53.8                     |
| Growing Degrees                     | 5      | 15.9 | 17.4 | 16.2 | 13.4 | 13.7 | 14.4 | 15.9 | 18.0 | 15.7 | 15.7 | 156.3                | 125.8                  | 124.9                    |
|                                     | 10     | 10.9 | 12.4 | 11.2 | 8.4  | 8.7  | 9.4  | 10.9 | 13.0 | 10.7 | 10.7 | 106.3                | 75.8                   | 74.9                     |

| 1st 10-day period<br>(1-10/05/2012)          |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 49.3  | 37.3                   | 38.7                     |
| Precipitation - Reference Evapotranspiration | -45.9 | -2.9                   | -21.6                    |
| Number of Rainy Days                         | 1.0   | 6.0                    | 2.8                      |
| Number of Dry Days                           | 15.0  | 0.0                    | -                        |

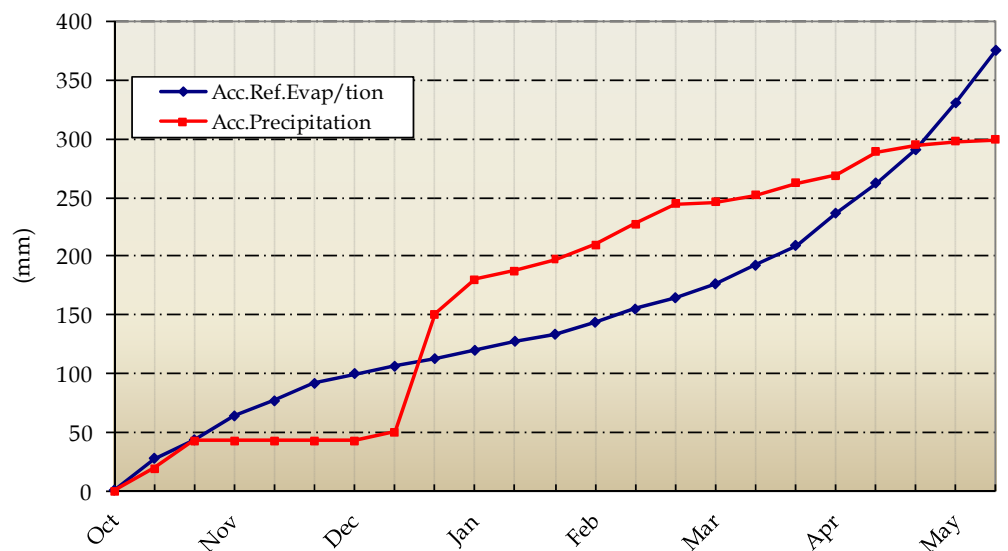
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 1st 10-day period<br>(1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                         | Max    | 29.4 | 30.8 | 30.2 | 25.0 | 23.8 | 23.0 | 23.8 | 28.2 | 27.0 | 26.4 | 26.8                 | 19.0                   | 20.6                     |
|                                     | Min    | 10.0 | 10.6 | 12.4 | 10.8 | 11.4 | 14.4 | 13.0 | 12.0 | 16.4 | 12.0 | 12.3                 | 10.4                   | 9.7                      |
| Relative Humidity                   | Max    | 86   | 95   | 91   | 82   | 91   | 94   | 88   | 81   | 86   | 91   | 88                   | 90                     | -                        |
|                                     | Min    | 21   | 18   | 21   | 41   | 53   | 57   | 54   | 36   | 42   | 41   | 38                   | 55                     | -                        |
| Soil Temperature at 10 cm           | 06 UTC | 18.6 | 18.4 | 19.2 | 19.6 | 20.0 | 20.0 | 20.2 | 20.4 | 21.0 | 21.4 | 19.9                 | 14.6                   | 15.1                     |
|                                     | 12 UTC | 22.6 | 23.0 | 23.4 | 23.6 | 24.0 | 24.4 | 24.0 | 23.0 | 23.8 | 23.8 | 23.6                 | 17.4                   | 19.2                     |
| Sunshine Duration                   |        | 13.0 | 13.1 | 12.8 | 12.7 | 10.6 | 8.7  | 11.8 | 6.0  | 8.0  | 8.3  | 10.5                 | 6.5                    | 8.0                      |
| Precipitation                       |        |      |      |      |      |      |      |      |      |      | 0.9  | 0.9                  | 27.7                   | 9.3                      |
| Evaporation                         |        | 2.6  | 14.8 | 7.8  | 5.2  | 5.0  | 1.1  | 10.7 | 5.1  | 4.4  | 5.4  | 62.1                 | 32.5                   | 55.4                     |
| Growing Degrees                     | 5      | 14.7 | 15.7 | 16.3 | 12.9 | 12.6 | 13.7 | 13.4 | 15.1 | 16.7 | 14.2 | 145.3                | 97.1                   | 101.5                    |
|                                     | 10     | 9.7  | 10.7 | 11.3 | 7.9  | 7.6  | 8.7  | 8.4  | 10.1 | 11.7 | 9.2  | 95.3                 | 47.1                   | 51.6                     |

| 1st 10-day period<br>(1-10/05/2012)          |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 44.8  | 30.4                   | 37.0                     |
| Precipitation - Reference Evapotranspiration | -43.9 | -2.7                   | -27.7                    |
| Number of Rainy Days                         | 1.0   | 4.0                    | 2.2                      |
| Number of Dry Days                           | 11.0  | 3.0                    | -                        |

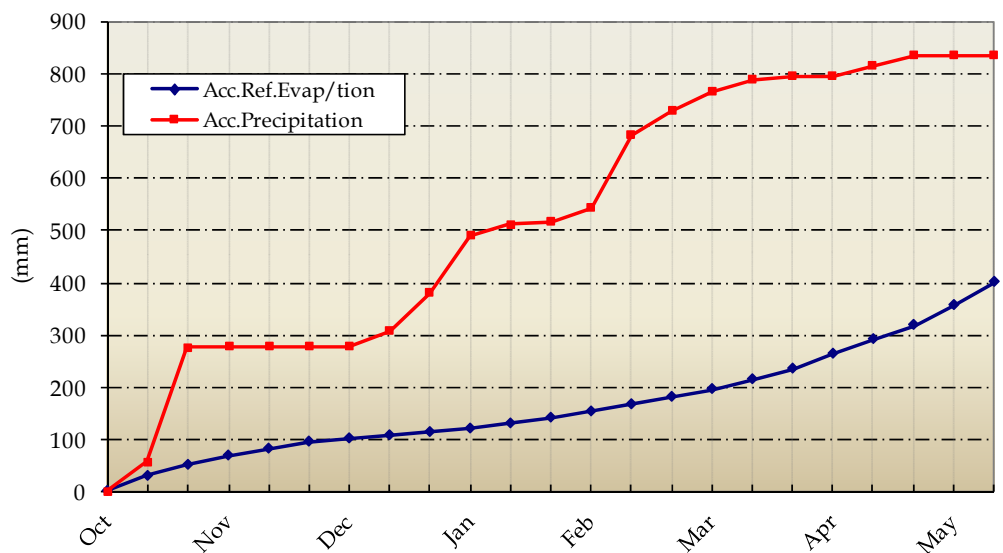
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 1st 10-day period<br>(1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                         | Max    | 27.1 | 27.2 | 24.2 | 22.3 | 23.5 | 24.4 | 27.2 | 25.8 | 25.0 | 27.0 | 25.4                 | 22.0                   | 22.2                     |
|                                     | Min    | 10.8 | 12.0 | 11.8 | 13.5 | 12.1 | 10.6 | 12.0 | 16.0 | 12.0 | 12.6 | 12.3                 | 12.6                   | 11.6                     |
| Relative Humidity                   | Max    | 89   | 88   | 89   | 91   | 92   | 89   | 89   | 88   | 91   | 86   | 89                   | 93                     | -                        |
|                                     | Min    | 28   | 33   | 46   | 59   | 38   | 34   | 34   | 38   | 44   | 35   | 39                   | 50                     | -                        |
| Soil Temperature at 10 cm           | 06 UTC | 18.2 | 19.0 | 19.4 | 20.0 | 19.2 | 19.0 | 19.4 | 21.3 | 20.5 | 20.6 | 19.7                 | 17.9                   | 17.3                     |
|                                     | 12 UTC | 24.0 | 24.6 | 24.6 | 24.4 | 24.0 | 23.6 | 23.6 | 24.6 | 24.8 | 25.0 | 24.3                 | 23.3                   | 21.1                     |
| Sunshine Duration                   |        | 11.0 | 12.0 | 10.8 | 10.4 | 12.0 | 11.7 | 11.3 | 7.2  | 10.4 | 11.1 | 10.8                 | 9.2                    | 8.8                      |
| Precipitation                       |        |      |      |      |      |      |      |      |      |      |      |                      | 7.5                    | 8.6                      |
| Evaporation                         |        | 4.8  | 11.7 | 17.0 | 6.0  | 6.4  | 6.6  | 8.3  | 6.2  | 6.0  | 11.5 | 84.5                 | 51.8                   | 49.3                     |
| Growing Degrees                     | 5      | 14.0 | 14.6 | 13.0 | 12.9 | 12.8 | 12.5 | 14.6 | 15.9 | 13.5 | 14.8 | 138.6                | 123.3                  | 119.0                    |
|                                     | 10     | 9.0  | 9.6  | 8.0  | 7.9  | 7.8  | 7.5  | 9.6  | 10.9 | 8.5  | 9.8  | 88.6                 | 73.3                   | 69.0                     |

| 1st 10-day period<br>(1-10/05/2012)          |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 44.5  | 38.4                   | 35.8                     |
| Precipitation - Reference Evapotranspiration | -44.5 | -30.9                  | -27.2                    |
| Number of Rainy Days                         | 0.0   | 3.0                    | 2.0                      |
| Number of Dry Days                           | 19.0  | 2.0                    | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

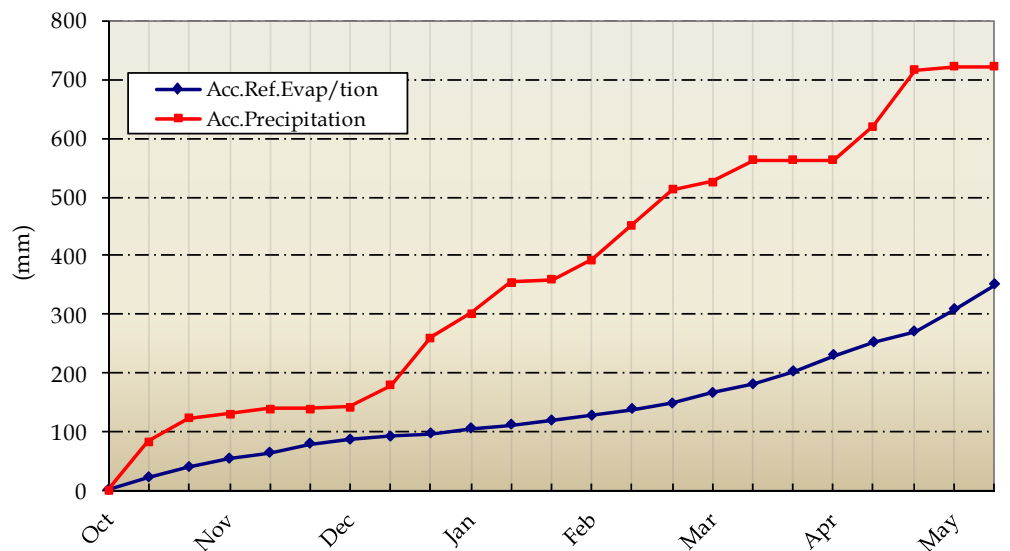


Ioannina

| 1st 10-day period<br>(1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                         | Max    | 28.6 | 27.0 | 27.6 | 24.8 | 24.0 | 24.8 | 26.6 | 26.2 | 25.2 | 25.4 | 26.0                 | -                      | 21.2                     |
|                                     | Min    | 8.0  | 10.6 | 9.8  | 13.4 | 7.0  | 6.5  | 14.6 | 10.4 | 9.0  | 9.0  | 9.8                  | -                      | 8.6                      |
| Relative Humidity                   | Max    | 76   | 88   | 71   | 86   | 92   | 78   | 74   | 83   | 88   | 90   | 83                   | -                      | -                        |
|                                     | Min    | 26   | 32   | 21   | 31   | 34   | 31   | 28   | 35   | 29   | 33   | 30                   | -                      | -                        |
| Soil Temperature at 10 cm           | 06 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 13.7                     |
|                                     | 12 UTC | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 17.5                     |
| Sunshine Duration                   |        | 11.5 | 8.6  | 12.7 | 10.3 | 11.9 | 12.0 | 8.1  | 6.0  | 6.8  | 8.0  | 9.6                  | -                      | 6.7                      |
| Precipitation                       |        |      |      |      |      |      |      | 0.0  | 0.4  | 0.3  | 0.0  | 0.7                  | -                      | 22.2                     |
| Evaporation                         |        | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -                    | -                      | 36.0                     |
| Growing Degrees                     | 5      | 13.3 | 13.8 | 13.7 | 14.1 | 10.5 | 10.7 | 15.6 | 13.3 | 12.1 | 12.2 | 129.3                | -                      | 99.4                     |
|                                     | 10     | 8.3  | 8.8  | 8.7  | 9.1  | 5.5  | 5.7  | 10.6 | 8.3  | 7.1  | 7.2  | 79.3                 | -                      | 49.6                     |

| 1st 10-day period<br>(1-10/05/2012)          |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 42.3  | -                      | 33.0                     |
| Precipitation - Reference Evapotranspiration | -41.6 | -                      | -10.8                    |
| Number of Rainy Days                         | 2.0   | -                      | 3.9                      |
| Number of Dry Days                           | 13.0  | -                      | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

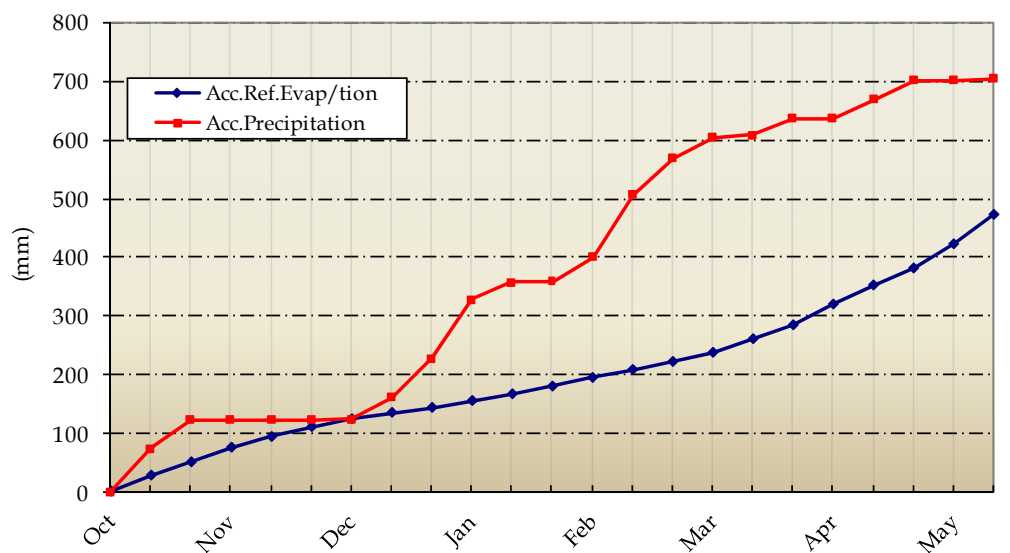


Kalamata

| 1st 10-day period (1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature                      | Max    | 26.3 | 25.4 | 25.6 | 25.5 | 26.5 | 29.2 | 27.8 | 29.8 | 25.0 | 25.0 | 26.6              | 22.0                | 22.8                  |
|                                  | Min    | 10.3 | 10.9 | 11.1 | 9.8  | 12.3 | 12.6 | 13.8 | 15.2 | 12.2 | 13.2 | 12.1              | 11.5                | 11.0                  |
| Relative Humidity                | Max    | 91   | 90   | 91   | 93   | 94   | 82   | 79   | 80   | 91   | 95   | 89                | 95                  | -                     |
|                                  | Min    | 36   | 43   | 31   | 42   | 32   | 21   | 31   | 23   | 37   | 41   | 34                | 50                  | -                     |
| Soil Temperature at 10 cm        | 06 UTC | 17.0 | 17.6 | 17.6 | 17.8 | 18.2 | 18.0 | 18.6 | 18.6 | 18.4 | 18.8 | 18.1              | 17.2                | 16.9                  |
|                                  | 12 UTC | 19.6 | 19.4 | 20.2 | 20.4 | 20.6 | 21.0 | 21.2 | 20.4 | 21.2 | 21.2 | 20.5              | 20.3                | 20.6                  |
| Sunshine Duration                |        | 12.6 | 12.4 | 10.3 | 12.7 | 12.9 | 12.7 | 12.6 | 8.3  | 10.7 | 8.0  | 11.3              | 9.3                 | 8.6                   |
| Precipitation                    |        |      |      |      |      |      |      |      |      |      | 3.7  | 3.7               | 2.0                 | 9.1                   |
| Evaporation                      |        | 4.4  | 3.2  | 13.8 | 1.2  | 2.0  | 5.0  | 3.0  | 11.0 | 5.0  | 5.0  | 53.6              | 47.8                | 52.2                  |
| Growing Degrees                  | 5      | 13.3 | 13.2 | 13.4 | 12.7 | 14.4 | 15.9 | 15.8 | 17.5 | 13.6 | 14.1 | 143.8             | 117.4               | 119.0                 |
|                                  | 10     | 8.3  | 8.2  | 8.4  | 7.7  | 9.4  | 10.9 | 10.8 | 12.5 | 8.6  | 9.1  | 93.8              | 67.4                | 69.0                  |

| 1st 10-day period (1-10/05/2012)             |       | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration                 | 50.3  | 39.3                | 36.5                  |
| Precipitation - Reference Evapotranspiration | -46.6 | -37.3               | -27.4                 |
| Number of Rainy Days                         | 1.0   | 3.0                 | 2.3                   |
| Number of Dry Days                           | 21.0  | 4.0                 | -                     |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

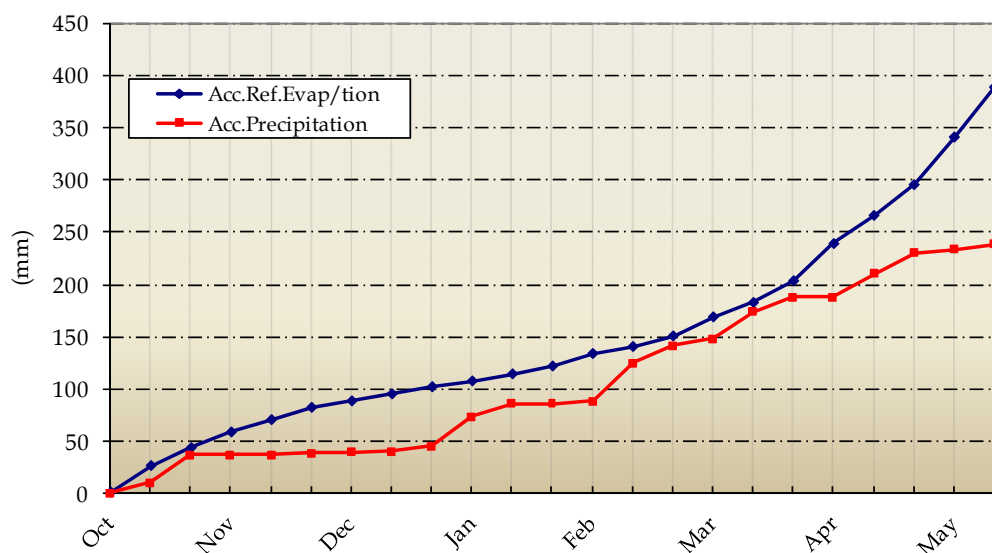


Larisa

| 1st 10-day period (1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature                      | Max    | 28.4 | 29.6 | 30.0 | 29.8 | 20.4 | 29.6 | 31.2 | 30.0 | 26.6 | 27.0 | 28.3              | 21.4                | 23.7                  |
|                                  | Min    | 10.2 | 9.6  | 9.2  | 12.2 | 9.6  | 10.6 | 11.0 | 13.8 | 12.8 | 12.0 | 11.1              | 10.4                | 9.3                   |
| Relative Humidity                | Max    | 87   | 85   | 83   | 93   | 96   | 80   | 85   | 74   | 87   | 93   | 86                | 93                  | -                     |
|                                  | Min    | 23   | 26   | 23   | 26   | 16   | 19   | 21   | 20   | 36   | 34   | 24                | 48                  | -                     |
| Soil Temperature at 10 cm        | 06 UTC | 16.2 | 16.0 | 16.0 | 17.4 | 17.2 | 17.6 | 17.6 | 18.0 | 18.4 | 17.4 | 17.2              | 15.2                | 16.2                  |
|                                  | 12 UTC | 17.6 | 17.8 | 18.4 | 18.6 | 18.0 | 18.6 | 21.0 | 19.6 | 18.8 | 19.8 | 18.8              | 18.5                | 18.4                  |
| Sunshine Duration                |        | 12.0 | 12.3 | 9.6  | 11.1 | 12.0 | 12.9 | 11.1 | 8.1  | 8.1  | 11.3 | 10.8              | 6.3                 | 8.0                   |
| Precipitation                    |        |      |      |      | 4.0  |      |      |      |      | 0.4  |      | 4.4               | 10.8                | 10.2                  |
| Evaporation                      |        | 6.3  | 5.3  | 5.7  | 7.0  | 6.7  | 9.6  | 5.5  | 4.0  | 6.0  | 4.0  | 60.1              | 35.2                | 50.6                  |
| Growing Degrees                  | 5      | 14.3 | 14.6 | 14.6 | 16.0 | 10.0 | 15.1 | 16.1 | 16.9 | 14.7 | 14.5 | 146.8             | 109.1               | 115.4                 |
|                                  | 10     | 9.3  | 9.6  | 9.6  | 11.0 | 5.0  | 10.1 | 11.1 | 11.9 | 9.7  | 9.5  | 96.8              | 59.1                | 65.4                  |

| 1st 10-day period (1-10/05/2012)             |       | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration                 | 47.9  | 34.4                | 38.0                  |
| Precipitation - Reference Evapotranspiration | -43.5 | -23.6               | -27.8                 |
| Number of Rainy Days                         | 2.0   | 1.0                 | 2.5                   |
| Number of Dry Days                           | 5.0   | 5.0                 | -                     |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

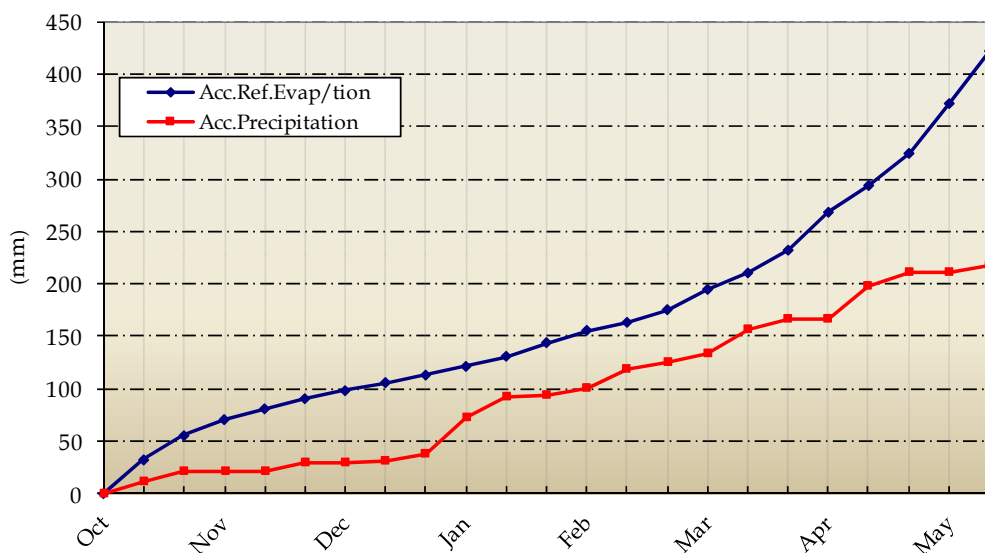


Mikra

| 1st 10-day period<br>(1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                         | Max    | 28.0 | 29.3 | 29.4 | 28.1 | 28.6 | 28.5 | 28.7 | 28.4 | 26.4 | 27.3 | 28.3                 | -                      | 22.7                     |
|                                     | Min    | 11.1 | 13.0 | 14.8 | 13.3 | 12.1 | 12.5 | 12.0 | 13.6 | 15.8 | 13.1 | 13.1                 | -                      | 10.7                     |
| Relative Humidity                   | Max    | 76   | 72   | 68   | 71   | 79   | 77   | 68   | 72   | 79   | 86   | 75                   | -                      | -                        |
|                                     | Min    | 23   | 21   | 23   | 26   | 23   | 22   | 24   | 28   | 38   | 33   | 26                   | -                      | -                        |
| Soil Temperature at 10 cm           | 06 UTC | 17.2 | 19.2 | 19.6 | 20.0 | 20.0 | 20.2 | 20.4 | 20.6 | 21.4 | 21.2 | 20.0                 | -                      | 16.9                     |
|                                     | 12 UTC | 24.4 | 24.0 | 24.6 | 24.6 | 25.0 | 25.6 | 25.4 | 25.6 | 26.4 | 26.4 | 25.2                 | -                      | 21.5                     |
| Sunshine Duration                   |        | 12.3 | 12.2 | 11.4 | 10.2 | 12.7 | 10.5 | 10.5 | 7.9  | 8.3  | 6.5  | 10.2                 | -                      | 7.9                      |
| Precipitation                       |        |      |      |      |      |      |      |      |      |      | 7.1  | 7.1                  | -                      | 12.9                     |
| Evaporation                         |        | 7.3  | 6.3  | 9.7  | 7.4  | 10.6 | 4.6  | 8.3  | 6.7  | 7.9  | 6.7  | 75.5                 | -                      | 53.6                     |
| Growing Degrees                     | 5      | 14.6 | 16.2 | 17.1 | 15.7 | 15.4 | 15.5 | 15.4 | 16.0 | 16.1 | 15.2 | 157.0                | -                      | 116.7                    |
|                                     | 10     | 9.6  | 11.2 | 12.1 | 10.7 | 10.4 | 10.5 | 10.4 | 11.0 | 11.1 | 10.2 | 107.0                | -                      | 66.7                     |

| 1st 10-day period<br>(1-10/05/2012)          |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 50.1  | -                      | 38.0                     |
| Precipitation - Reference Evapotranspiration | -43.0 | -                      | -25.1                    |
| Number of Rainy Days                         | 1.0   | -                      | 2.6                      |
| Number of Dry Days                           | 12.0  | -                      | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



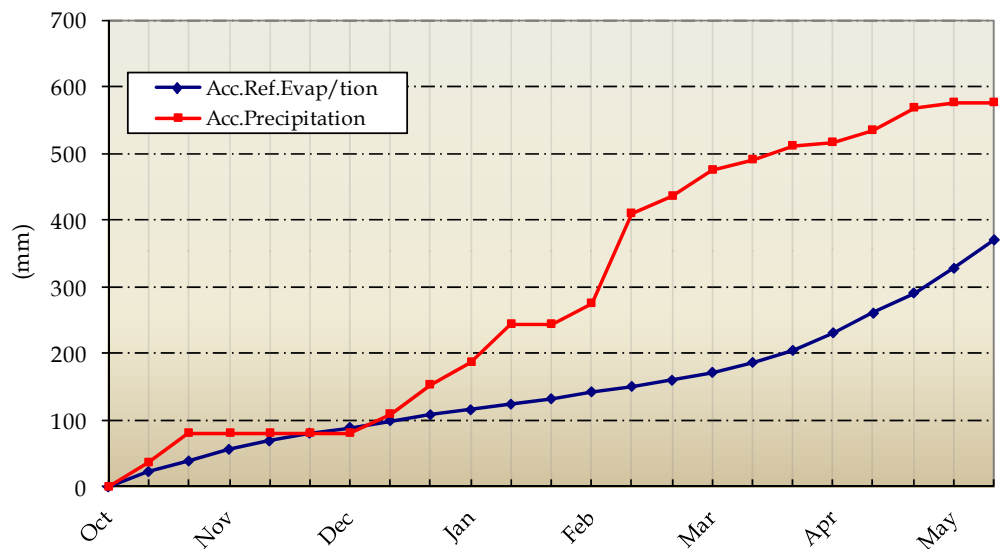


Tripoli

| 1st 10-day period<br>(1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value<br>or Sum | Previous Year<br>Value | Past Years<br>Mean Value |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature                         | Max    | 26.7 | 28.2 | 26.8 | 24.0 | 23.8 | 27.5 | 29.3 | 25.2 | 24.1 | 24.8 | 26.0                 | 19.8                   | 21.0                     |
|                                     | Min    | 6.2  | 7.0  | 7.0  | 8.2  | 6.2  | 4.6  | 7.6  | 11.2 | 6.2  | 7.1  | 7.1                  | 8.2                    | 7.0                      |
| Relative Humidity                   | Max    | 56   | 84   | 89   | 86   | 91   | 72   | 73   | 66   | 88   | 91   | 80                   | 91                     | -                        |
|                                     | Min    | 36   | 18   | 22   | 24   | 31   | 19   | 18   | 27   | 28   | 33   | 26                   | 45                     | -                        |
| Soil Temperature at 10 cm           | 06 UTC | 15.8 | 16.4 | 17.2 | 16.0 | 17.2 | 17.4 | 18.4 | 19.2 | 16.6 | 17.4 | 17.2                 | 14.8                   | 14.6                     |
|                                     | 12 UTC | -    | 24.4 | 24.4 | 23.8 | 25.6 | 25.8 | 26.4 | 22.4 | 22.4 | 24.4 | 24.4                 | 19.3                   | 17.1                     |
| Sunshine Duration                   |        | 12.6 | 11.5 | 9.3  | 12.4 | 12.6 | 12.8 | 10.3 | 6.1  | 8.4  | 11.0 | 10.7                 | 8.6                    | 8.1                      |
| Precipitation                       |        |      |      | 0.8  |      |      |      |      | 0.3  |      |      | 1.1                  | 7.6                    | 10.2                     |
| Evaporation                         |        | 6.0  | 6.0  | 3.8  | 5.2  | 6.4  | 6.4  | 6.0  | 2.5  | 4.4  | 6.8  | 53.5                 | 44.2                   | 39.1                     |
| Growing Degrees                     | 5      | 11.5 | 12.6 | 11.9 | 11.1 | 10.0 | 11.1 | 13.5 | 13.2 | 10.2 | 11.0 | 115.9                | 90.3                   | 89.7                     |
|                                     | 10     | 6.5  | 7.6  | 6.9  | 6.1  | 5.0  | 6.1  | 8.5  | 8.2  | 5.2  | 6.0  | 65.9                 | 40.3                   | 40.9                     |

| 1st 10-day period<br>(1-10/05/2012)          |       | Previous Year<br>Value | Past Years<br>Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration                 | 42.7  | 35.4                   | 36.7                     |
| Precipitation - Reference Evapotranspiration | -41.6 | -27.8                  | -26.5                    |
| Number of Rainy Days                         | 2.0   | 2.0                    | 2.8                      |
| Number of Dry Days                           | 4.0   | 3.0                    | -                        |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

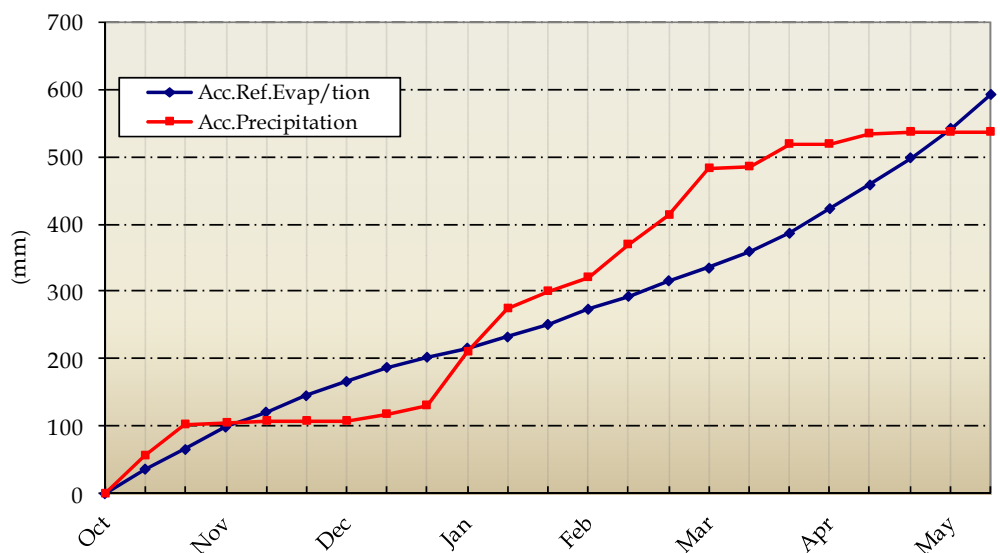


Tympani

| 1st 10-day period (1-10/05/2012) |        | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|----------------------------------|--------|------|------|------|------|------|------|------|------|------|------|-------------------|---------------------|-----------------------|
| Temperature                      | Max    | 27.0 | 28.2 | 25.2 | 21.4 | 21.8 | 24.0 | 25.8 | 25.8 | 26.4 | 27.8 | 25.3              | 22.1                | 23.0                  |
|                                  | Min    | 12.4 | 15.6 | 13.6 | 12.4 | 13.2 | 11.4 | 13.0 | 12.2 | 16.4 | 13.6 | 13.4              | 12.9                | 12.7                  |
| Relative Humidity                | Max    | 81   | 81   | 98   | 99   | 99   | 98   | 98   | 98   | 98   | 96   | 95                | 86                  | -                     |
|                                  | Min    | 22   | 18   | 46   | 60   | 77   | 37   | 24   | 31   | 31   | 35   | 38                | 41                  | -                     |
| Soil Temperature at 10 cm        | 06 UTC | 23.0 | 23.8 | 23.4 | 23.0 | 23.8 | 23.4 | 23.8 | 24.4 | 25.8 | 25.4 | 24.0              | 21.5                | 21.3                  |
|                                  | 12 UTC | 30.0 | 30.0 | 30.4 | 30.6 | 30.4 | 30.2 | 31.0 | 31.4 | 32.0 | 32.0 | 30.8              | 26.8                | 26.1                  |
| Sunshine Duration                |        | 12.0 | 12.1 | 12.0 | 12.1 | 12.2 | 12.6 | 12.9 | 11.7 | 12.8 | 12.3 | 12.3              | 10.2                | 9.3                   |
| Precipitation                    |        |      |      |      |      |      |      |      |      |      |      |                   |                     | 3.0                   |
| Evaporation                      |        | 5.9  | 13.3 | 6.3  | 4.5  | 7.0  | 9.9  | 5.0  | 8.8  | 7.8  | 7.1  | 75.6              | 71.6                | 65.1                  |
| Growing Degrees                  | 5      | 14.7 | 16.9 | 14.4 | 11.9 | 12.5 | 12.7 | 14.4 | 14.0 | 16.4 | 15.7 | 143.6             | 125.0               | 128.8                 |
|                                  | 10     | 9.7  | 11.9 | 9.4  | 6.9  | 7.5  | 7.7  | 9.4  | 9.0  | 11.4 | 10.7 | 93.6              | 75.0                | 78.8                  |

| 1st 10-day period (1-10/05/2012)             |       | Previous Year Value | Past Years Mean Value |
|--|-------|---------------------|-----------------------|
| Reference Evapotranspiration                 | 50.4  | 44.9                | 39.6                  |
| Precipitation - Reference Evapotranspiration | -50.4 | -44.9               | -36.6                 |
| Number of Rainy Days                         | 0.0   | 0.0                 | 0.9                   |
| Number of Dry Days                           | 21.0  | 11.0                | -                     |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration





◆ **List of Symbols and Abbreviations**

**Reference Evapotranspiration ETo (mm):**

Calculated by the FAO Penman-Montieth equation

$$ET_0 = \frac{0.408 * \Delta * (R_n - G) + \gamma * \frac{900}{T + 273} * u_2 * (e_s - e_a)}{\Delta + \gamma * (1 + 0.34 * u_2)}$$

using 10-day step.

R<sub>n</sub> is estimated from sunshine measurements and G assumed to be zero.

**Growing Degrees:** Degrees with mean temperature exceeding the base of 5 or 10 °C.

**Number of Rainy Days:** Number of days with precipitation of at least 0.1 mm.

**Number of Dry Days:** Number of dry days recorded since the last rainy day.

**Mesurements Units**

- ◆ Temperature : °C
- ◆ Relative Humidity : %
- ◆ Soil Temperature : °C
- ◆ Sunshine Duration : Hours
- ◆ Precipitation : mm
- ◆ Evaporation (Pan) : mm
- ◆ Growing Degrees : °C

**UTC (Universal Time coordinates) in Greece**

- ◆ Winter : Time(UTC) = Local time - 2
- ◆ Summer : Time(UTC) = Local time - 3

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El. Venizelou street 14, Zip Code 16777

Helliniko, Athens



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ΥΠΗΡΕΣΙΑ

HELLENIC NATIONAL METEOROLOGICAL SERVICE

Division of Climatology-Applications

Issue Editors :

Charalabopoulos Christos

Filiou Anna

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