



AGROMETEOROLOGICAL BULLETIN

April 2013
3rd 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

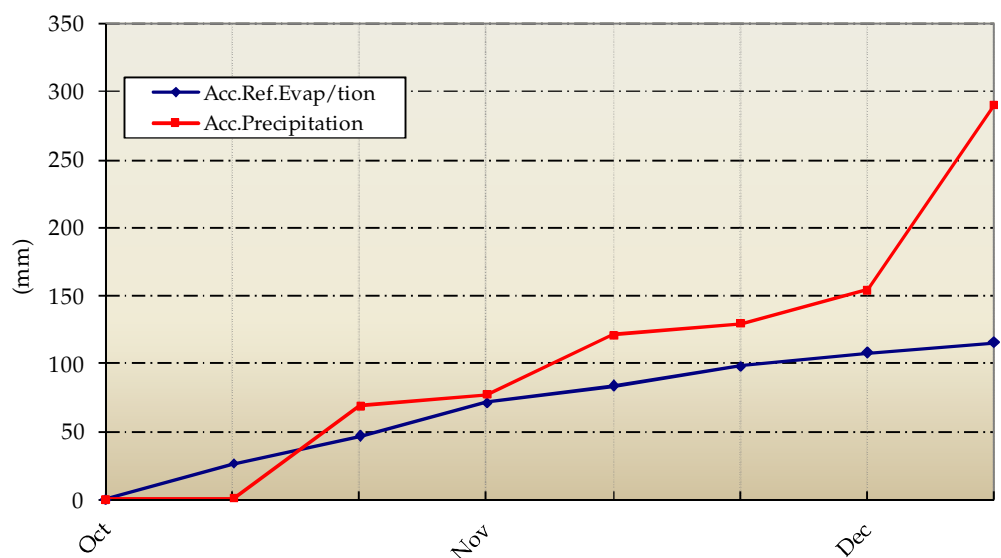
Web addresses of HNMS
www.hnms.gr
www.emy.gov.gr
www.meteo.gov.gr
www.meteohellas.gr

| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|-----|------|------|------|------|------|----|-----|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | - | - | - | - | - | - | - | - | - | - | | 25.4 | 21.9 |
| | Min | - | 8.0 | 11.0 | 11.0 | 10.2 | 10.8 | - | - | 10.6 | 12.0 | 10.5 | 9.1 | 8.7 |
| Relative Humidity | Max | 93 | 90 | 88 | 84 | 88 | - | - | 91 | 86 | - | 89 | 84 | - |
| | Min | 38 | 36 | 35 | 36 | 30 | - | - | 31 | 37 | - | 35 | 37 | - |
| Soil Temperature at 10 cm | 06 UTC | - | 14.4 | 16.0 | 16.6 | 17.6 | 18.2 | - | - | 19.0 | 20.2 | 17.4 | 16.5 | 14.6 |
| | 12 UTC | - | 28.0 | 19.4 | - | - | - | - | - | - | - | 23.7 | 20.8 | 19.4 |
| Sunshine Duration | | - | 7.4 | 8.5 | 11.6 | 12.4 | - | - | - | 12.2 | - | 10.4 | 10.8 | 7.7 |
| Precipitation | | | | | | | | | | | | | 4.7 | 13.1 |
| Evaporation | | 6.0 | 5.0 | 6.0 | 6.4 | 7.6 | - | - | 7.4 | 7.6 | - | - | 61.5 | 47.7 |
| Growing Degrees | 5 | - | - | - | - | - | - | - | - | - | - | - | 122.2 | 103.2 |
| | 10 | - | - | - | - | - | - | - | - | - | - | - | 72.2 | 53.2 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|------|------------------------|--------------------------|
| Reference Evapotranspiration | - | 41.6 | 33.8 |
| Precipitation - Reference Evapotranspiration | - | -36.9 | -20.7 |
| Number of Rainy Days | 0.0 | 2.0 | 2.8 |
| Number of Dry Days | 22.0 | 2.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

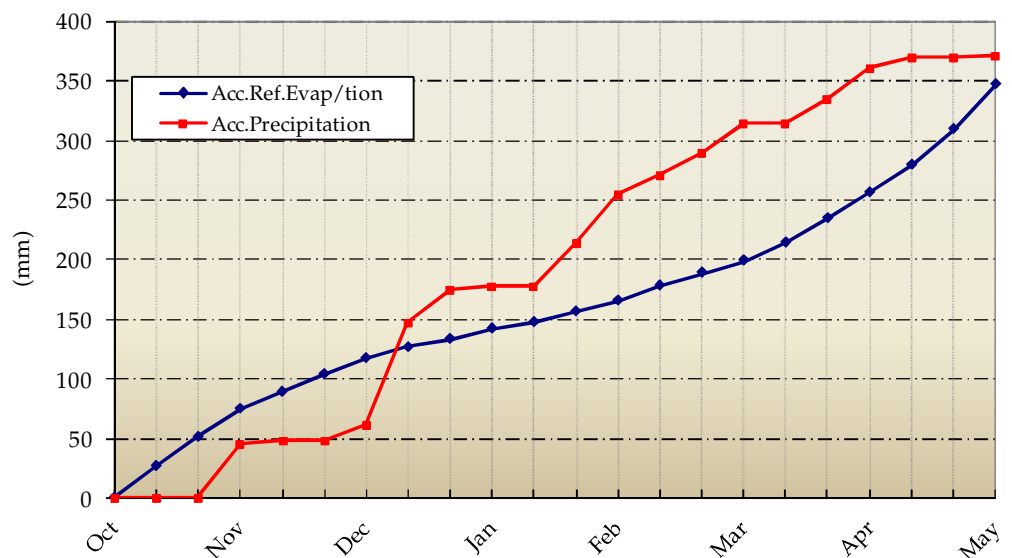
This station is not fully operated



| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 16.6 | 20.6 | 18.8 | 22.0 | 25.2 | 24.8 | 26.8 | 24.0 | 27.4 | 30.6 | 23.7 | 22.9 | 18.4 |
| | Min | 4.5 | 8.8 | 9.4 | 7.4 | 9.4 | 13.2 | 10.6 | 9.8 | 10.4 | 13.0 | 9.6 | 10.6 | 7.8 |
| Relative Humidity | Max | 87 | 88 | 92 | 89 | 93 | 81 | 85 | 91 | 81 | 81 | 87 | 89 | - |
| | Min | 57 | 51 | 41 | 35 | 42 | 36 | 28 | 41 | 40 | 26 | 40 | 37 | - |
| Soil Temperature at 10 cm | 06 UTC | 12.0 | 11.8 | 13.0 | 13.8 | 15.2 | 16.8 | 17.4 | 17.8 | 17.0 | 19.4 | 15.4 | 16.0 | 12.7 |
| | 12 UTC | 15.0 | 16.0 | 16.4 | 18.2 | 20.2 | 20.6 | 21.8 | 22.0 | 22.2 | 23.6 | 19.6 | 19.6 | 16.6 |
| Sunshine Duration | | 4.4 | 9.1 | 10.9 | 11.6 | 12.5 | 12.5 | 13.0 | 12.5 | 12.7 | 13.1 | 11.2 | 11.2 | 7.4 |
| Precipitation | | 1.4 | | | | | | | | | | 1.4 | 3.9 | 11.6 |
| Evaporation | | 2.2 | 4.0 | 2.5 | 6.0 | 5.0 | 5.2 | 6.5 | 2.3 | 5.0 | 12.4 | 51.1 | - | 46.0 |
| Growing Degrees | 5 | 5.6 | 9.7 | 9.1 | 9.7 | 12.3 | 14.0 | 13.7 | 11.9 | 13.9 | 16.8 | 116.7 | 117.2 | 80.8 |
| | 10 | 0.6 | 4.7 | 4.1 | 4.7 | 7.3 | 9.0 | 8.7 | 6.9 | 8.9 | 11.8 | 66.7 | 67.2 | 32.3 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 37.7 | 39.9 | 31.2 |
| Precipitation - Reference Evapotranspiration | -36.3 | -36.0 | -19.6 |
| Number of Rainy Days | 1.0 | 2.0 | 2.2 |
| Number of Dry Days | 5.0 | 7.0 | - |

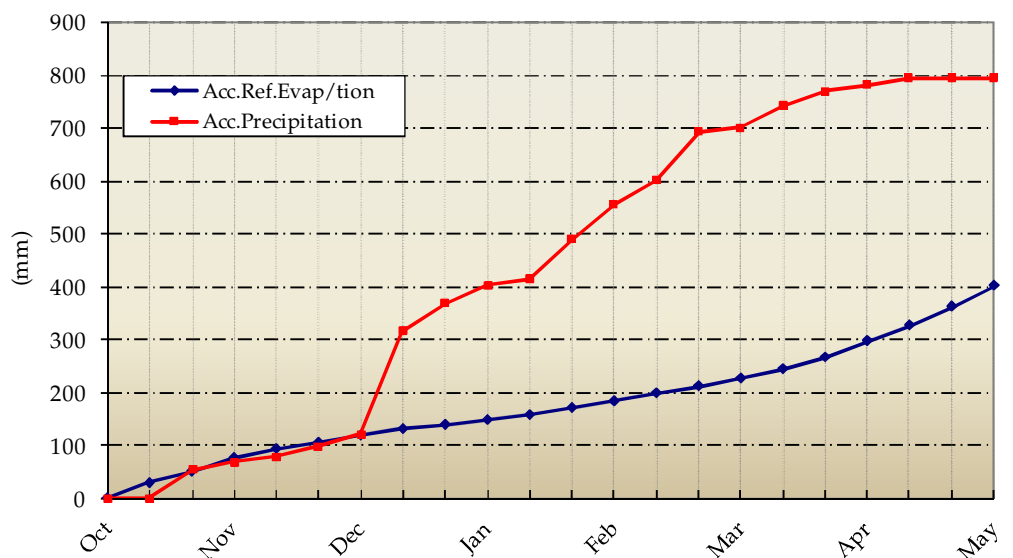
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 15.0 | 22.4 | 22.9 | 24.9 | 25.4 | 26.4 | 27.5 | 27.4 | 27.2 | 29.3 | 24.8 | 22.6 | 20.2 |
| | Min | 9.0 | 10.2 | 10.4 | 10.3 | 10.8 | 11.1 | 10.7 | 12.1 | 12.9 | 11.4 | 10.9 | 10.4 | 9.8 |
| Relative Humidity | Max | 90 | 88 | 85 | 90 | 91 | 87 | 88 | 79 | 76 | 85 | 86 | 91 | - |
| | Min | 39 | 33 | 43 | 33 | 33 | 35 | 27 | 16 | 25 | 22 | 31 | 43 | - |
| Soil Temperature at 10 cm | 06 UTC | 15.6 | 16.2 | 16.8 | 16.8 | 17.6 | 18.4 | 18.4 | 18.8 | 19.2 | 19.4 | 17.7 | 16.3 | 15.0 |
| | 12 UTC | 19.6 | 21.4 | 21.2 | 22.4 | 23.2 | 23.4 | 24.0 | 23.0 | 24.6 | 25.0 | 22.8 | 21.3 | 18.4 |
| Sunshine Duration | | 11.1 | 8.9 | 8.3 | 11.1 | 12.1 | 12.2 | 11.9 | 11.0 | 13.0 | 11.0 | 11.1 | 10.2 | 8.8 |
| Precipitation | | | | | | | | | | | | | 0.5 | 8.8 |
| Evaporation | | 7.4 | 2.7 | 4.0 | 8.0 | 7.3 | 9.0 | 4.5 | 6.2 | 9.4 | 6.1 | 64.6 | 43.0 | 43.9 |
| Growing Degrees | 5 | 7.0 | 11.3 | 11.7 | 12.6 | 13.1 | 13.8 | 14.1 | 14.8 | 15.1 | 15.4 | 128.7 | 115.4 | 100.1 |
| | 10 | 2.0 | 6.3 | 6.7 | 7.6 | 8.1 | 8.8 | 9.1 | 9.8 | 10.1 | 10.4 | 78.7 | 65.4 | 50.1 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 39.8 | 38.1 | 33.2 |
| Precipitation - Reference Evapotranspiration | -39.8 | -37.6 | -24.4 |
| Number of Rainy Days | 0.0 | 1.0 | 1.8 |
| Number of Dry Days | 22.0 | 2.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

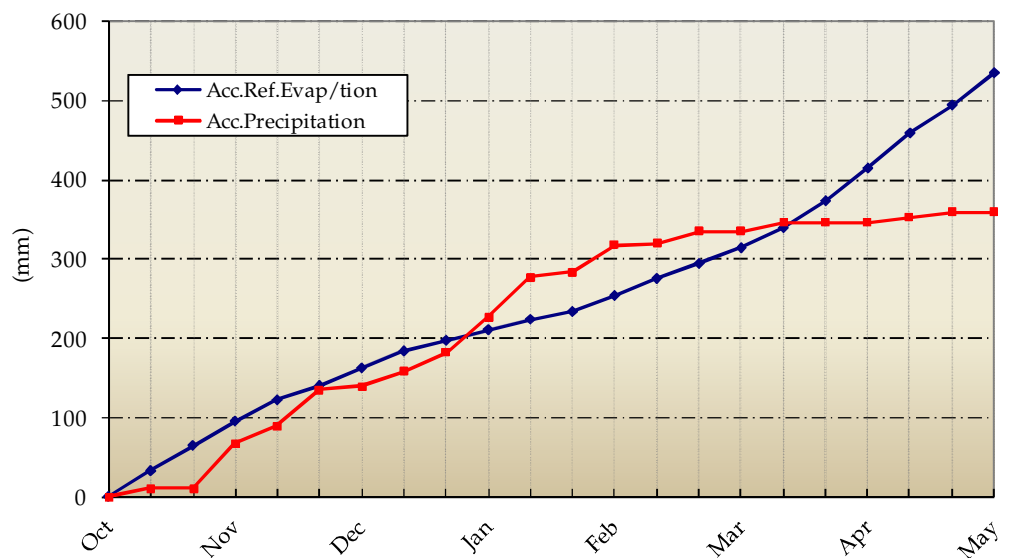


Iraklio

| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 18.8 | 19.0 | 20.0 | 20.0 | 21.2 | 23.2 | 22.8 | 22.6 | 24.6 | 24.2 | 21.6 | - | 20.6 |
| | Min | 14.4 | 14.6 | 10.6 | 12.2 | 11.4 | 12.2 | 12.8 | 11.0 | 12.2 | 12.6 | 12.4 | - | 12.6 |
| Relative Humidity | Max | 74 | 85 | 89 | 93 | 88 | 78 | 80 | 76 | 71 | 79 | 81 | - | - |
| | Min | 57 | 65 | 66 | 66 | 57 | 56 | 44 | 50 | 50 | 45 | 56 | - | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Sunshine Duration | | 8.0 | 11.9 | 8.1 | 10.9 | 12.0 | 12.3 | 12.5 | 10.0 | 12.5 | 12.6 | 11.1 | - | 8.9 |
| Precipitation | | 0.2 | | | | | | | | | | 0.2 | - | 5.6 |
| Evaporation | | 2.4 | 4.4 | 2.2 | 1.6 | 4.7 | 4.2 | 4.7 | 2.7 | 5.5 | 1.9 | 34.3 | - | 52.8 |
| Growing Degrees | 5 | 11.6 | 11.8 | 10.3 | 11.1 | 11.3 | 12.7 | 12.8 | 11.8 | 13.4 | 13.4 | 120.2 | - | 115.8 |
| | 10 | 6.6 | 6.8 | 5.3 | 6.1 | 6.3 | 7.7 | 7.8 | 6.8 | 8.4 | 8.4 | 70.2 | - | 65.8 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 40.8 | - | - |
| Precipitation - Reference Evapotranspiration | -40.6 | - | 5.6 |
| Number of Rainy Days | 1.0 | - | 1.3 |
| Number of Dry Days | 0.0 | - | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

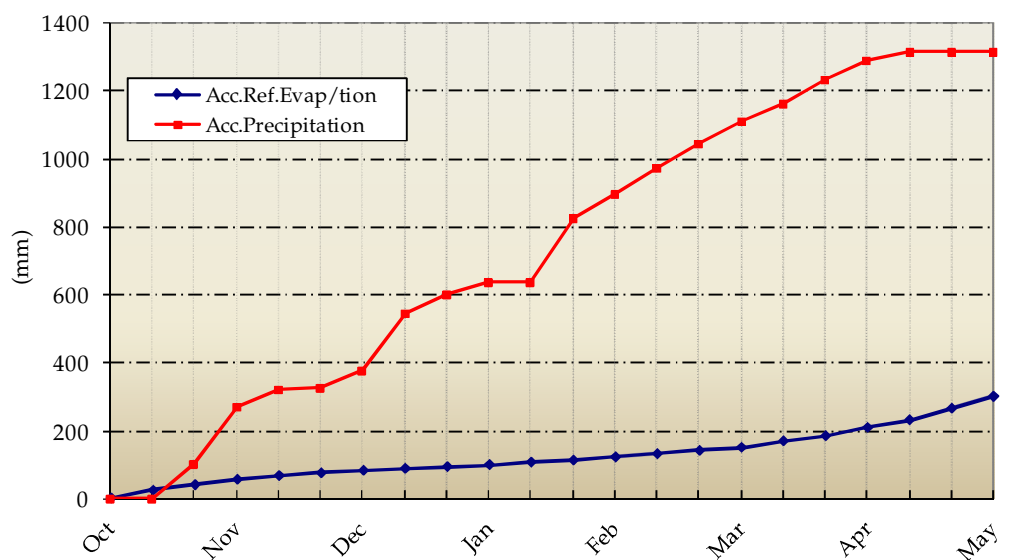


Ioannina

| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 21.0 | 20.4 | 22.0 | 27.0 | 29.0 | 28.2 | 21.8 | 26.4 | 30.4 | 30.2 | 25.6 | 22.4 | 18.6 |
| | Min | 5.0 | 5.0 | 8.0 | 6.5 | 14.4 | 9.5 | 13.2 | 8.5 | 8.2 | 9.5 | 8.8 | 8.9 | 6.5 |
| Relative Humidity | Max | 80 | 94 | 93 | 90 | 74 | 86 | 75 | 70 | 71 | 79 | 81 | 80 | - |
| | Min | 33 | 31 | 28 | 30 | 20 | 35 | 36 | 19 | 26 | 21 | 28 | 34 | - |
| Soil Temperature at 10 cm | 06 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 11.5 |
| | 12 UTC | - | - | - | - | - | - | - | - | - | - | - | - | 14.9 |
| Sunshine Duration | | 5.5 | 0.0 | 3.8 | 7.9 | 11.0 | 8.0 | 11.1 | 8.0 | 12.2 | 8.0 | 7.6 | 9.3 | 6.6 |
| Precipitation | | | 0.8 | | | | | | | | | 0.8 | 5.7 | 15.2 |
| Evaporation | | - | - | - | - | - | - | - | - | - | - | - | - | 36.5 |
| Growing Degrees | 5 | 8.0 | 7.7 | 10.0 | 11.8 | 16.7 | 13.9 | 12.5 | 12.5 | 14.3 | 14.9 | 122.1 | 106.4 | 75.1 |
| | 10 | 3.0 | 2.7 | 5.0 | 6.8 | 11.7 | 8.9 | 7.5 | 7.5 | 9.3 | 9.9 | 72.1 | 56.4 | 27.7 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 34.8 | 38.2 | 29.4 |
| Precipitation - Reference Evapotranspiration | -34.0 | -32.5 | -14.2 |
| Number of Rainy Days | 1.0 | 2.0 | 3.6 |
| Number of Dry Days | 13.0 | 0.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

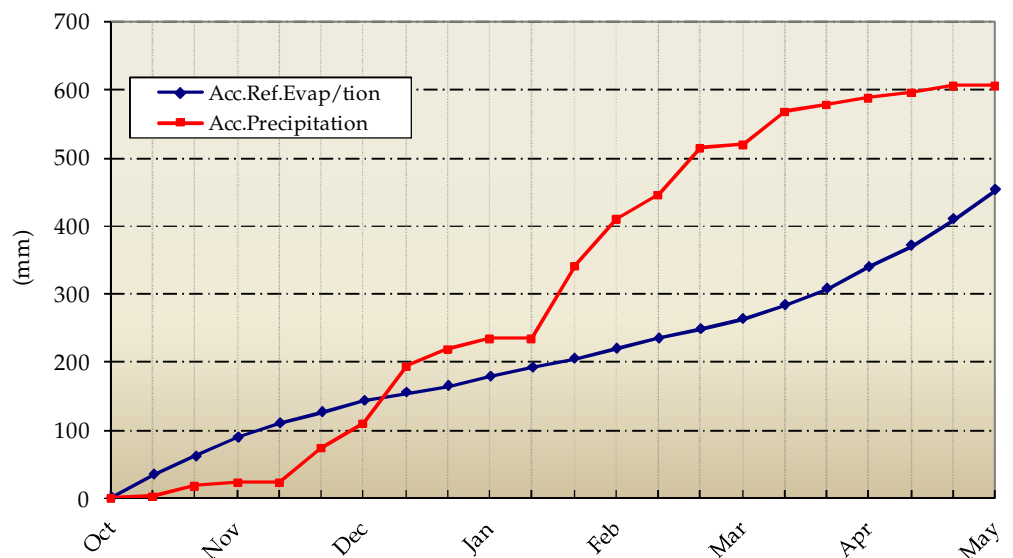


Kalamata

| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 20.9 | 22.4 | 21.3 | 22.9 | 24.6 | 25.1 | 24.6 | 26.0 | 26.3 | 28.4 | 24.2 | 22.6 | 20.8 |
| | Min | 8.0 | 7.9 | 9.7 | 9.1 | 9.8 | 9.8 | 9.7 | 8.4 | 10.4 | 8.8 | 9.2 | 9.5 | 9.1 |
| Relative Humidity | Max | 92 | 91 | 92 | 93 | 94 | 85 | 89 | 83 | 81 | 89 | 89 | 91 | - |
| | Min | 48 | 37 | 42 | 42 | 31 | 34 | 33 | 26 | 24 | 28 | 34 | 42 | - |
| Soil Temperature at 10 cm | 06 UTC | 15.0 | 15.6 | 16.0 | 15.8 | 16.4 | 16.4 | 17.2 | 17.0 | 17.4 | 17.4 | 16.4 | 15.6 | 15.1 |
| | 12 UTC | 18.4 | 19.4 | 18.6 | 19.4 | 19.8 | 20.0 | 21.6 | 20.2 | 21.0 | 21.2 | 20.0 | 17.6 | 18.5 |
| Sunshine Duration | | 10.3 | 11.2 | 7.0 | 11.4 | 11.4 | 12.4 | 11.9 | 11.3 | 12.1 | 11.7 | 11.1 | 10.8 | 8.3 |
| Precipitation | | | | | | | | | | | | | | 12.2 |
| Evaporation | | 4.6 | 4.8 | 2.6 | 7.4 | 5.0 | 8.4 | 6.8 | 8.2 | 6.6 | 6.8 | 61.2 | 52.4 | 46.5 |
| Growing Degrees | 5 | 9.5 | 10.2 | 10.5 | 11.0 | 12.2 | 12.5 | 12.2 | 12.2 | 13.4 | 13.6 | 117.1 | 110.6 | 99.4 |
| | 10 | 4.5 | 5.2 | 5.5 | 6.0 | 7.2 | 7.5 | 7.2 | 7.2 | 8.4 | 8.6 | 67.1 | 60.6 | 49.4 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 43.1 | 41.4 | 34.1 |
| Precipitation - Reference Evapotranspiration | -43.1 | -41.4 | -21.9 |
| Number of Rainy Days | 0.0 | 0.0 | 2.6 |
| Number of Dry Days | 11.0 | 12.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

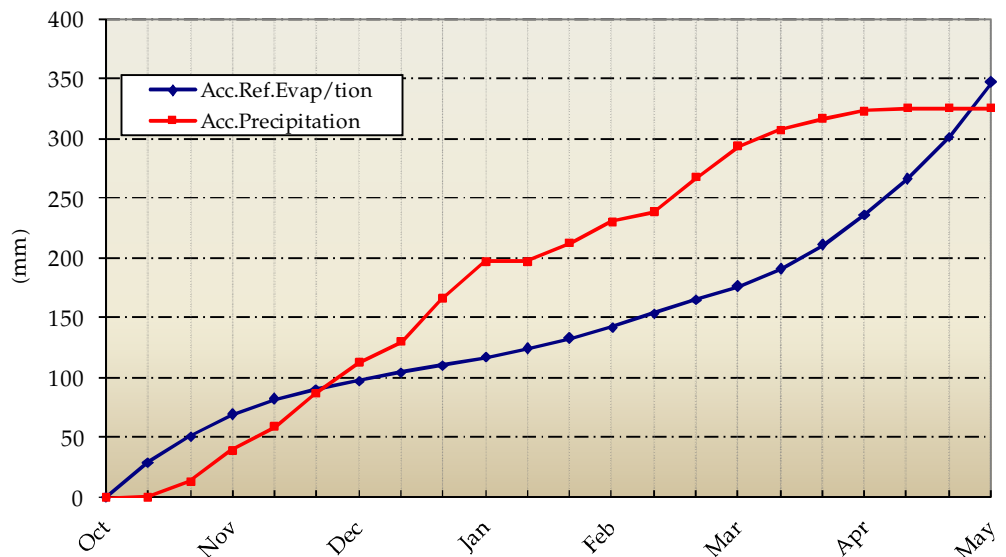


Larisa

| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 24.6 | 23.4 | 23.1 | 26.8 | 28.8 | 30.4 | 29.0 | 29.4 | 30.5 | 31.4 | 27.7 | 25.3 | 21.1 |
| | Min | 7.3 | 6.3 | 13.0 | 7.4 | 8.6 | 9.7 | 8.6 | 10.8 | 10.9 | 9.2 | 9.2 | 9.0 | 7.3 |
| Relative Humidity | Max | 84 | 79 | 91 | 92 | 88 | 90 | 83 | 84 | 90 | 89 | 87 | 87 | - |
| | Min | 22 | 29 | 38 | 31 | 28 | 20 | 25 | 17 | 25 | 23 | 26 | 28 | - |
| Soil Temperature at 10 cm | 06 UTC | 14.2 | 15.0 | - | - | - | - | - | - | - | - | 14.6 | 14.8 | 14.2 |
| | 12 UTC | 16.4 | - | - | - | - | - | - | - | - | - | 16.4 | 16.4 | 16.2 |
| Sunshine Duration | | 11.6 | 7.1 | 10.5 | 10.6 | 11.6 | 12.7 | 12.8 | 8.1 | 12.0 | 9.3 | 10.6 | 10.7 | 7.9 |
| Precipitation | | | | | | | | | | | | | 4.2 | 10.7 |
| Evaporation | | 7.1 | 5.8 | 2.2 | 6.4 | 6.5 | 7.6 | 6.9 | 8.2 | 7.2 | 6.3 | 64.2 | 67.5 | 43.9 |
| Growing Degrees | 5 | 11.0 | 9.9 | 13.1 | 12.1 | 13.7 | 15.1 | 13.8 | 15.1 | 15.7 | 15.3 | 134.6 | 121.7 | 91.9 |
| | 10 | 6.0 | 4.9 | 8.1 | 7.1 | 8.7 | 10.1 | 8.8 | 10.1 | 10.7 | 10.3 | 84.6 | 71.7 | 42.7 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 45.7 | 45.7 | 34.0 |
| Precipitation - Reference Evapotranspiration | -45.7 | -41.5 | -23.3 |
| Number of Rainy Days | 0.0 | 1.0 | 2.7 |
| Number of Dry Days | 21.0 | 9.0 | - |

Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration

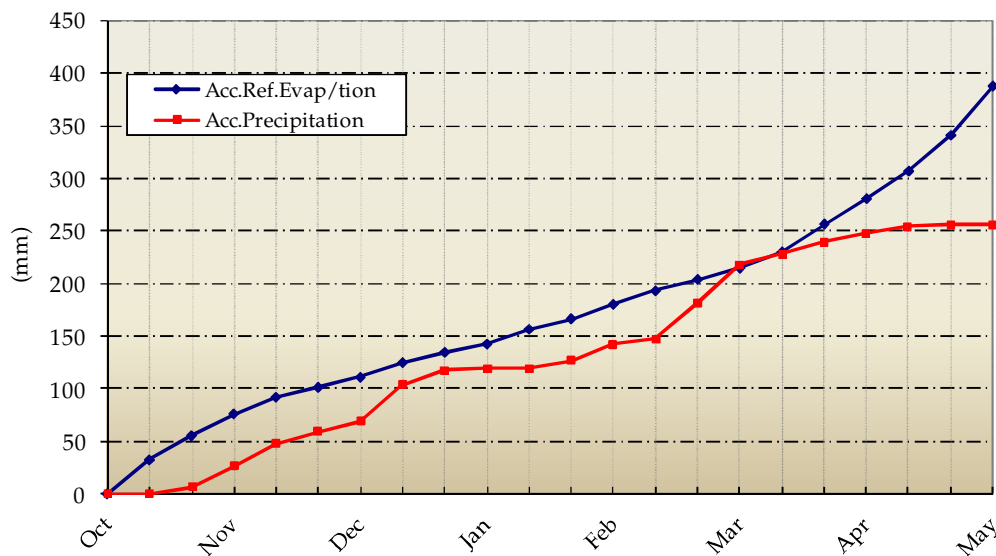


Mikra

| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 23.8 | 22.8 | 21.2 | 25.1 | 27.6 | 27.9 | 27.8 | 26.2 | 28.3 | 30.8 | 26.2 | 24.8 | 20.2 |
| | Min | 6.1 | 8.2 | 10.2 | 8.8 | 9.4 | 10.6 | 10.4 | 12.0 | 11.4 | 12.6 | 10.0 | 10.7 | 8.4 |
| Relative Humidity | Max | 87 | 79 | 82 | 83 | 80 | 82 | 84 | 80 | 85 | 85 | 83 | 83 | - |
| | Min | 26 | 25 | 36 | 34 | 28 | 28 | 26 | 36 | 31 | 23 | 29 | 29 | - |
| Soil Temperature at 10 cm | 06 UTC | 15.0 | 15.8 | 16.2 | 16.4 | 18.0 | 18.8 | 19.2 | 19.8 | 22.4 | 21.0 | 18.3 | 16.1 | 14.2 |
| | 12 UTC | 22.0 | 21.2 | 21.4 | 24.4 | 26.0 | 26.8 | 26.2 | 26.0 | 27.0 | 28.2 | 24.9 | 20.7 | 18.8 |
| Sunshine Duration | | 11.2 | 10.7 | 9.5 | 12.0 | 11.7 | 12.0 | 12.0 | 10.5 | 12.2 | 12.1 | 11.4 | 10.7 | 7.6 |
| Precipitation | | | | | | | | | | | | | 0.3 | 11.2 |
| Evaporation | | 9.8 | 3.6 | 5.1 | 8.3 | 6.0 | 6.8 | 5.4 | 7.4 | 6.9 | 7.0 | 66.3 | 56.1 | 45.8 |
| Growing Degrees | 5 | 10.0 | 10.5 | 10.7 | 12.0 | 13.5 | 14.3 | 14.1 | 14.1 | 14.9 | 16.7 | 130.6 | 127.7 | 93.3 |
| | 10 | 5.0 | 5.5 | 5.7 | 7.0 | 8.5 | 9.3 | 9.1 | 9.1 | 9.9 | 11.7 | 80.6 | 77.7 | 43.8 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 46.8 | 47.6 | 33.7 |
| Precipitation - Reference Evapotranspiration | -46.8 | -47.3 | -22.5 |
| Number of Rainy Days | 0.0 | 1.0 | 3.0 |
| Number of Dry Days | 12.0 | 6.0 | - |

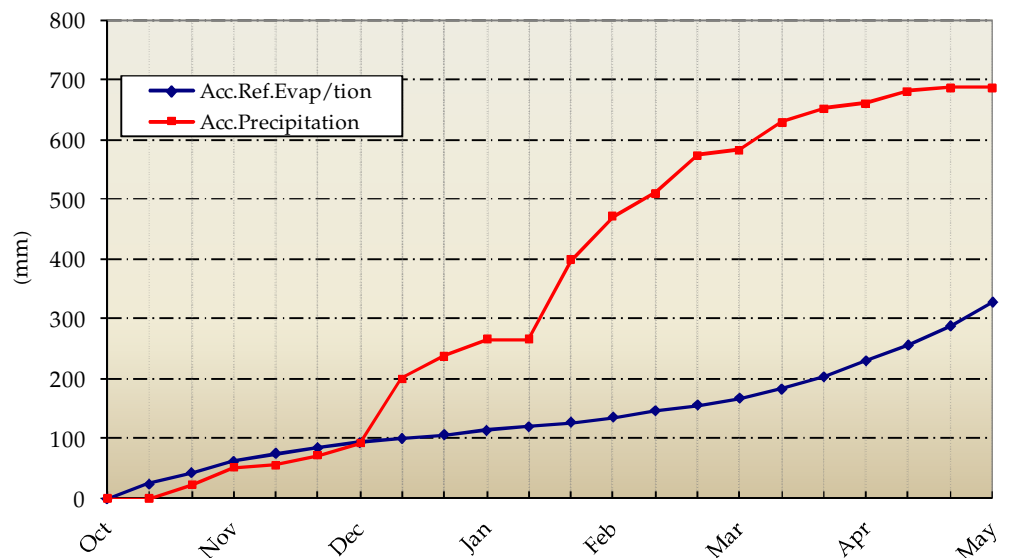
Diagram of Accumulated Precipitation and Accumulated Reference Evapotranspiration



| 3rd 10-day period (21-30/04/2013) | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Mean Value or Sum | Previous Year Value | Past Years Mean Value |
|--------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|----------------------|------------------------|--------------------------|
| Temperature | Max | 19.5 | 20.7 | 19.0 | 23.0 | 24.3 | 25.0 | 25.4 | 26.3 | 26.3 | 29.3 | 23.9 | 22.1 | 18.7 |
| | Min | 1.3 | 1.8 | 2.9 | 3.8 | 5.0 | 4.9 | 4.3 | 4.1 | 6.8 | 6.1 | 4.1 | 6.4 | 5.4 |
| Relative Humidity | Max | 75 | 91 | 84 | 91 | 76 | 77 | 70 | 72 | 71 | 79 | 79 | 81 | - |
| | Min | 31 | 28 | 33 | 25 | 25 | 16 | 20 | 12 | 18 | 13 | 22 | 44 | - |
| Soil Temperature at 10 cm | 06 UTC | 10.4 | 11.6 | 13.0 | 13.2 | 14.8 | 15.8 | 16.4 | 16.8 | 17.8 | 18.2 | 14.8 | 13.5 | 12.1 |
| | 12 UTC | 18.2 | 19.4 | 19.0 | 21.0 | 23.0 | 23.8 | 24.6 | 24.4 | 24.4 | 26.8 | 22.5 | - | 14.3 |
| Sunshine Duration | | 9.2 | 11.4 | 8.7 | 11.8 | 11.8 | 12.2 | 12.3 | 11.8 | 12.4 | 12.5 | 11.4 | 10.4 | 8.0 |
| Precipitation | | | | | | | | | | | | | 6.8 | 14.5 |
| Evaporation | | 3.7 | 4.1 | 4.0 | 5.5 | 5.2 | 6.8 | 4.7 | 6.5 | 5.5 | 7.0 | 53.0 | 41.9 | 35.0 |
| Growing Degrees | 5 | 5.4 | 6.3 | 6.0 | 8.4 | 9.7 | 10.0 | 9.9 | 10.2 | 11.6 | 12.7 | 89.9 | 92.6 | 70.7 |
| | 10 | 0.4 | 1.3 | 1.0 | 3.4 | 4.7 | 5.0 | 4.9 | 5.2 | 6.6 | 7.7 | 39.9 | 42.6 | 24.2 |

| 3rd 10-day period (21-30/04/2013) | | Previous Year Value | Past Years Mean Value |
|--|-------|------------------------|--------------------------|
| Reference Evapotranspiration | 39.7 | 37.0 | 32.9 |
| Precipitation - Reference Evapotranspiration | -39.7 | -30.2 | -18.4 |
| Number of Rainy Days | 0.0 | 2.0 | 2.7 |
| Number of Dry Days | 15.0 | 1.0 | - |

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_n 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.

Measurements 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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