Phytosociological Research Center  
www.globalbioclimatics.org  
Worldwide Bioclimatic Classification System  
Prof. Dr. Salvador Rivas-Martinez  
(Adapted to Synoptical Table 30/08/2017)

ROMA−FIUMICINO (ITALY)  
Altitude: 2 m.

Latitude: 41°47'N  Longitude: 12°14'E  
Temperature observation period.: 1984−1994 (11)  
Rainfall observation period....: 1895−1994 (100)

<table>
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<tr>
<th></th>
<th>Ti</th>
<th>Mi</th>
<th>mi</th>
<th>M'i</th>
<th>m'i</th>
<th>Pi</th>
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Year  15.79  21.02  10.56  29.35  2.27  830  838.45

BIOCIMATIC INDICES AND DIAGNOSIS

Thermicity index...........................................(It): 297
Compensated thermicity index............................(Itc): 297
Simple continentality index.............................(Ic): 17.8
Diurnality index.......................................... (Id): 12.8
Annual ombrothermic index..............................(Io): 4.38
Monthly estival ombrothermic index.................(Ios1): 0.69
Bimonthly estival ombrothermic index............... (Ios2): 0.87
Threemonthly estival ombrothermic index.......... (Ios3): 1.17
Fourmonthly estival ombrothermic index........... (Ios4): 1.54
Annual ombro-evaporation index.......................(Ioe): 0.66
Annual positive temperature............................(Tp): 1895
Annual negative temperature...........................(Tn): 0
Estival temperature.....................................(Ts): 711
Positive precipitation..................................(Pp): 830

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<th>N. of</th>
<th>P&gt;4T</th>
<th>P:2T−4T</th>
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Latitudinal Belt....: Low eutemperate
Continentality.....: Oceanic − Low Semicontinental
Bioclimatic........: MEDITERRANEAN PLUVISEASONAL−OCEANIC
Bioclimatic Belt...: LOW MESOMEDITERRANEAN LOW SUBHUMID
ROMA−FIUMICINO (ITALY) 2 m

P= 830 mm  41° 47’N  12° 14’E  11/100 y.

T= 15.8°  Ic= 17.8  Tp= 1895  Tn= 0

M= 11.1°  Itc= 297  Io= 4.4

M’= 40.6°  m’= −6.7°

MEDITERRANEAN PLUVISEASONAL−OCEANIC
LOW MESOMEDITERRANEAN LOW SUBHUMID

WATER INDEX CARD ROMA−FIUMICINO (ITALY)
Altitude: 2 m.  Latitude: 41° 47’N

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R  = Reserve    VR = Variation of the reserve   RE = Real evapotranspiration
DR = Drainage   HC = Humidity coefficient  DF = Deficit  SP = Superavit

ROMA−FIUMICINO (ITALY) 41°47’N 12°14’E  2 m  11/100 y.

T= 15.8°  Ic= 17.8
m= 2.8°  M= 11.1°  Tp= 1895  Tn= 0
M’= 40.6°  Itc= 297
m’= −6.7°  Io= 4.4
P= 830 mm
PE= 838 mm

Imbibing  11 Sep.
Saturation  13 Nov.
Reserve Use  8 Apr.
Deficit  22 Jun.
ROMA−FIUMICINO (ITALY)
Latitude: 41°47’N   Longitude: 12°14’E   Altitude: 2 m

SUMMARY OF RIVAS−MARTINEZ CLASSIFICATION

Continentality Index [B1a]
+ Type ................: B. Oceanic
+ Subtype .............: 1. Semicontinental
+ Variant .............: a. Low

Thermic types [B1.A3]
+ Latitudinal zone ....: B. Temperate
+ Latitudinal belt ....: 1. Low eutemperate
+ Thermic type ........: A. Warm
+ Thermic subtype .....: 3. Subwarm

Bioclimatic types [B8.3b.6b]
+ Macrobioclimate ......: B. MEDITERRANEAN
+ Bioclimate ...........: 8. PLUVISEASONAL−OCEANIC
+ Bioclimatic variant : 3. MESOMEDITERRANEAN
+ Thermic type.........: 3. MESOMEDITERRANEAN
+ Thermic subtype......: b. LOW
+ Ombrothermic type ...: 6. SUBHUMID
+ Ombrothermic subtype : b. LOW

Bioclimatic Classification ....................: Mehc.Mme.Shu

ROMA−FIUMICINO (ITALY)
Latitude: 41°47’N   Longitude: 12°14’E   Altitude: 2 m

PRECIPITATION PARAMETERS

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<tr>
<th>Seasons</th>
<th>Winter Tr1−W</th>
<th>Spring Tr2−P</th>
<th>Summer Tr3−S</th>
<th>Autumn Tr4−P</th>
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<td>Rainfall</td>
<td>248</td>
<td>194</td>
<td>83</td>
<td>305</td>
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Seasonal rainfall rhythms:  F > W > P > S

ROMA−FIUMICINO (ITALY)
Latitude: 41°47’N   Longitude: 12°14’E   Altitude: 2 m

TEMPERATURE PARAMETERS

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<th>Tmmax</th>
<th>Tmmin</th>
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<tr>
<td>Absolute Max.temp.</td>
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<td></td>
<td>40.6</td>
<td>−6.7</td>
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<tr>
<td>Absolute Min.temp.</td>
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<td>−6.7</td>
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<td>31.1 (7)</td>
<td></td>
<td></td>
<td>−6.7 (7)</td>
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<td>First coldest contrasted</td>
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<td>Positive temp coldest 2</td>
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3
## ROMA−FIUMICINO (ITALY)

### Latitude: 41°47'N  Longitude: 12°14'E  Altitude: 2 m

#### SEASONAL PARAMETERS

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<th>Jul</th>
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<th>Oct</th>
<th>Nov</th>
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#### OMBROTHERMIC PARAMETERS

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<td>Pp (x10)</td>
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<td>820</td>
<td>681</td>
<td>729</td>
<td>660</td>
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<td>220</td>
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<tr>
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<td>6.56</td>
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<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Autumn</th>
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<td>Pp / Tp</td>
<td>2481 / 239</td>
<td>1940 / 436</td>
<td>830 / 711</td>
<td>3050 / 509</td>
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<th>June−November</th>
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### Aridity Value Index (AVI)

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<td>Pp [P*10]</td>
<td>980</td>
<td>820</td>
<td>681</td>
<td>729</td>
<td>660</td>
<td>551</td>
<td>401</td>
<td>170</td>
<td>259</td>
<td>650</td>
<td>1280</td>
<td>120</td>
</tr>
<tr>
<td>Tp [T*10]</td>
<td>92</td>
<td>69</td>
<td>78</td>
<td>111</td>
<td>142</td>
<td>183</td>
<td>220</td>
<td>247</td>
<td>245</td>
<td>220</td>
<td>170</td>
<td>120</td>
</tr>
<tr>
<td>Iom [Pp/Tp]</td>
<td>$</td>
<td>$$</td>
<td>875</td>
<td>656</td>
<td>466</td>
<td>300</td>
<td>183</td>
<td>69</td>
<td>106</td>
<td>296</td>
<td>755</td>
<td>937</td>
</tr>
<tr>
<td>Avm [200-Iom]</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>17</td>
<td>131</td>
<td>94</td>
<td>***</td>
<td>***</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Seasons</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Autumn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pp / Tp</td>
<td>2481 / 239</td>
<td>1940 / 436</td>
<td>830 / 711</td>
<td>3050 / 509</td>
</tr>
<tr>
<td>Io (Iot)</td>
<td>1039</td>
<td>445</td>
<td>117</td>
<td>600</td>
</tr>
<tr>
<td>Avs E[Avm&lt;200]</td>
<td>***</td>
<td>***</td>
<td>243</td>
<td>***</td>
</tr>
</tbody>
</table>

|--------------|---------------------|---------------------------|------------------------|
ROMA−FIUMICINO (ITALY)
Latitude: 41°47’N   Longitude: 12°14’E   Altitude: 2 m

**BIOCLIMATIC INDICES I**

<table>
<thead>
<tr>
<th>Index</th>
<th>Formula</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI of Supan (1884)</td>
<td>[Tmax−Tmin]</td>
<td>17.78</td>
</tr>
<tr>
<td>CI of Gorezinski (1920)</td>
<td>[1.7*Sp/sin(Lat)−20.4]</td>
<td>24.96</td>
</tr>
<tr>
<td>CI of Conrad (1946)</td>
<td>[1.7*Sp/sin(Lat+10)−14]</td>
<td>24.47</td>
</tr>
<tr>
<td>CI of Currey (1974)</td>
<td>[CI=Sp/(1+Lat/3)]</td>
<td>1.19</td>
</tr>
<tr>
<td>Rainfall Index of Lang (1925)</td>
<td>[R=P/T]</td>
<td>52.57</td>
</tr>
<tr>
<td>Aridity Index of Martonne (1926)</td>
<td>[Ia=P/(T+10)]</td>
<td>32.19</td>
</tr>
<tr>
<td>I of Emberger (1930)</td>
<td>[Q=100*P/(Tmmax²−Tmmin²)]</td>
<td>86.46</td>
</tr>
<tr>
<td>I of Dantin &amp; Revenga (1940)</td>
<td>[DR=100*T/P]</td>
<td>1.90</td>
</tr>
<tr>
<td>Aridity Index of UNEP</td>
<td>[I=P/PE]</td>
<td>0.99</td>
</tr>
<tr>
<td>Potential Erosion I of Fournier (1960)</td>
<td>[K=Pi²/P]</td>
<td>19.74</td>
</tr>
</tbody>
</table>

**BIOCLIMATIC INDICES II**

<table>
<thead>
<tr>
<th>Precipitation−effectiveness: 40.75</th>
<th>Temperature−efficiency ....: 85.26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture Index [MI=100*(P−PE)/PE]</td>
<td>-1.00</td>
</tr>
<tr>
<td>+ C1.Subhumid dry (-33.3&lt;MI&lt;0)</td>
<td>37.19</td>
</tr>
<tr>
<td>Index of dryness [DI=100*d/PE]</td>
<td></td>
</tr>
<tr>
<td>+ Strong deficit (33.3&lt;DI)</td>
<td>36.19</td>
</tr>
<tr>
<td>Index of humidity [HI=100*s/PE]</td>
<td></td>
</tr>
<tr>
<td>+ Strong surplus (20&lt;HI)</td>
<td>838.45</td>
</tr>
<tr>
<td>Potential Evapotranspiration PE</td>
<td></td>
</tr>
<tr>
<td>+ Second mesothermic (712&lt;PE&lt;855)</td>
<td></td>
</tr>
</tbody>
</table>

**Thornthwaite (1948)**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P−E ratio</td>
<td>0.50</td>
<td>0.39</td>
<td>0.38</td>
<td>0.31</td>
<td>0.22</td>
<td>0.14</td>
<td>0.05</td>
<td>0.08</td>
<td>0.25</td>
<td>0.59</td>
<td>0.56</td>
</tr>
<tr>
<td>T−E ratio</td>
<td>3.12</td>
<td>3.50</td>
<td>5.00</td>
<td>6.38</td>
<td>8.25</td>
<td>9.88</td>
<td>11.12</td>
<td>11.00</td>
<td>9.88</td>
<td>7.63</td>
<td>5.38</td>
</tr>
</tbody>
</table>

**Precipitation−effectiveness:** 40.75  
**Temperature−efficiency:** 85.26

**ITALY**

<table>
<thead>
<tr>
<th>°C</th>
<th>41°47’N / 12°14’E / 2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.1</td>
<td>ROMA−FIUMICINO</td>
</tr>
<tr>
<td>2.8</td>
<td>[11−100] +15.8 °C 830.1 mm</td>
</tr>
</tbody>
</table>