KALEMI (Zaire)  Altitude: 790 m.

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<th>Ti</th>
<th>Mi</th>
<th>mi</th>
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<th>m'i</th>
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**BIOClimatic Indices and Diagnosis**

- **Thermicity index**.........................(It): 651
- **Compensated thermicity index**..........(Itc): 651
- **Simple continentality index**.............(Ic): 3.8
- **Diurnality index**.........................(Id): 12.0
- **Annual ombrothermic index**..............(Io): 3.84
- **Monthly dry ombrothermic index**........(Iod1): 0.05
- **Bimonthly dry ombrothermic index**......(Iod2): 0.19
- **Threemonthly dry ombrothermic index**... (Iod3): 0.26
- **Fourmonthly dry ombrothermic index**... (Iod4): 1.29
- **Annual ombro-evaporation index**........ (Ioe): 1.33
- **Annual positive temperature**............(Tp): 2777
- **Annual negative temperature**............(Tn): 0
- **Dry station temperature**..................(Td): 646
- **Positive precipitation**..................(Pp): 1065

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<th>N. of Months</th>
<th>P&gt;4T</th>
<th>P:2T-4T</th>
<th>PT-2T</th>
<th>P&lt;T</th>
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Latitudinal Belt....: Ecuatorial  
Continentality......: Hyperoceanic − Low Ultrahyperoceanic  
Bioclimatic (Variant): TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)  
Bioclimatic Belt....: LOW THERMOTROPICAL LOW SUBHUMID
KALEMI (ZAIRE) 790 m

P= 1065 5° 53’S 29° 11’E 12/10 y.
T= 23.1°  Ic= 3.8  Tp= 2777  Tn= 0
m= 15.0°  M= 27.0°  Itc= 651  Io= 3.8

TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
LOW THERMOTROPICAL LOW SUBHUMID

WATER INDEX CARD KALEMI (ZAIRE)
Altitude: 790 m. Latitude: 5° 53’S

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<th>(C/mm)</th>
<th>T</th>
<th>PE</th>
<th>P</th>
<th>VR</th>
<th>R</th>
<th>RE</th>
<th>DF</th>
<th>SP</th>
<th>DR</th>
<th>HC</th>
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<td>73</td>
<td>1</td>
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<td>78</td>
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<td>51</td>
<td>68</td>
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<td>8</td>
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<td>100</td>
<td>96</td>
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<td>908</td>
<td>242</td>
<td>157</td>
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R = Reserve  VR = Variation of the reserve  RE = Real evapotranspiration  
DR = Drainage  HC = Humidity coefficient  DF = Deficit  SP = Superavit

KALEMI (ZAIRE)

5°53’S  29°11’E  790 m  12/10 y.

T= 23.1°  Ic= 3.8
m= 15.0°  Tp= 2777
M= 27.0°  Tn= 0
M’= 34.0°  Itc= 651
m’= 11.0°  Io= 3.8
P= 1065 mm
PE= 1150 mm

Imbibing  11 Feb.
Saturation  18 Mar.
Reserve Use  1 May.
Deficit  15 Jul.
KALEMI (Zaire)

Latitude: 5°53’S Longitude: 29°11’E Altitude: 790 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continuity Index: [Alb]
  + Type: A. Hyperoceanic
  + Subtype: 1. Ultrahyperoceanic
  + Variant: b. Low

Thermic types: [A1b]
  + Latitudinal zone: A. Warm
  + Latitudinal belt: 1. Ecuatorial
  + Thermic type: A. Warm
  + Thermic subtype: 2. Warm

Bioclimatic types: [A4.2b.6b]
  + Macrobioclimate: A. TROPICAL
  + Bioclimate: 4. PLUVISEASONAL
  + Bioclimatic variant:
    + Thermic type: 2. THERMOTROPICAL
    + Thermic subtype: b. LOW
    + Ombrothermic type: 6. SUBHUMID
    + Ombrothermic subtype: b. LOW

Bioclimatic Classification: Trde.Ttr.Shu

PRECIPITATION PARAMETERS

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<tr>
<th>Seasons</th>
<th>Jun+Jul+Aug Trr3−3</th>
<th>Sep+Oct+Nov Ttr4−4</th>
<th>Dec+Jan+Feb Ttr1−1</th>
<th>Mar+Apr+May Ttr2−2</th>
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<td>240</td>
<td>368</td>
<td>440</td>
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Tropical rainfall rhythms: 2 > 1 > 4 > 3

TEMPERATURE PARAMETERS

| Average warmest month [T] | (Tmax) | 24.8 |
| Average coldest month [T] | (Tmin) | 21.0 |
| Minimum temp. warmest month [M] | (Tmmax) | 30.0 |
| Absolute Max. temp. warmest month [M’] | (Tamax) | 34.0 |
| Absolute Min. temp. coldest month [m’] | (Tamin) | 11.0 |
| First warmest contrasted month [M] | (Tcmax) | 27.0 (7) |
| First coldest contrasted month [m] | (Tcmin) | 15.0 (7) |
| Dry station temperature | (Td) | 646 |
| Positive temperature dryest 3 months | (Tpd) | 646 |
| Positive temperature dryest 2 months | (Tpd2) | 431 |
| Positive temperature dryest 1 month | (Tpd1) | 210 |
| Positive temperature warmest 3 months | (Tps) | 722 |
| Positive temperature warmest 2 months | (Tps2) | 487 |
| Positive temperature warmest 1 month | (Tps1) | 248 |
| Positive temperature coldest 3 months | (Tpw) | 646 |
| Positive temperature coldest 2 months | (Tpw2) | 425 |
| Positive temperature coldest 1 month | (Tpw1) | 210 |
### KALEMI (ZAIRE)

**Latitude:** 5°53’S  
**Longitude:** 29°11’E  
**Altitude:** 790 m

#### SEASONAL PARAMETERS

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<th>Apr</th>
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<th>Jun</th>
<th>Jul</th>
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<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
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#### OMBROTHERMIC PARAMETERS

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<td>430</td>
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<th>June-November</th>
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#### Aridity Value Index (AVI)

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<td>960</td>
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<td>10</td>
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<td>430</td>
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<td>Mar+Apr+May</td>
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| Pp / Tp | 3680 / 704 | 4400 / 705 |
| Io (Iom) | 5.735 | 1.879 |
KALEMI (Zaire)
Latitude: 5°53'S  Longitude: 29°11'E  Altitude: 790 m

BIOCLIMATIC INDICES I

CI of Supan (1884) \( [T_{\text{max}}-T_{\text{min}}] \) ........... (Sp): 3.80
CI of Gorezinski (1920) \( [1.7*\text{Sp}/\sin(\text{Lat})-20.4] \) .........: 42.62
CI of Conrad (1946) \( [1.7*\text{Sp}/\sin(\text{Lat}+10)-14] \) .............: 9.60
  + Hyperoceanic \((-20<\text{CI}<20)\)
CI of Currey (1974) \( [\text{CI}=\text{Sp}/(1+\text{Lat}/3)] \) ...............: 1.28
  + Subcontinental \((1.1<\text{CI}<1.7)\)
Rainfall Index of Lang (1925) \( [R=P/T] \) ...............: 46.02
  + Semiarid \((60>R>40)\)
Aridity Index of Martonne (1926) \( [\text{Ia}=P/(T+10)] \) .......: 32.13
  + Humid \((60>\text{Ia}>30)\)
I of Emberger (1930) \( [Q=100*P/(T_{\text{max}}^2-T_{\text{min}}^2)] \) .........: 157.78
  + Humid \((Q>90)\)
I of Dantin & Revenga (1940) \( [DR=100*T/P] \) ...............: 2.17
  + Semiarid \((3>DR>2)\)
Aridity Index of UNEP \([I=P/PE]\) ......................: 0.93
  + Humid \((I>0.65)\)
Potential Erosion I of Fournier (1960) \( [K=P^2/P] \) .......: 40.23
  + Very low \((K<60)\)

KALEMI (Zaire)
Latitude: 5°53’S  Longitude: 29°11’E  Altitude: 790 m

BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
  + Climate ....: 1. Warm and temperate warm
  + Region .....: 2. Termoxerotic (Mediterranean warm)
  + Thermic type: 3. Macrotropical

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<td>P-E ratio</td>
<td>0.43</td>
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<td>0.54</td>
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<td>0.58</td>
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<td>Precipitation-effectiveness</td>
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