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

SAO BORJA (BRAZIL)  
Altitude: 99 m.

Latitude: 28°39'S  Longitude: 56°0'W
Temperature observation period.: 1957−1977 (21)
Rainfall observation period.: 1957−1977 (21)

<table>
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<th>Month</th>
<th>Ti</th>
<th>Mi</th>
<th>mi</th>
<th>M'i</th>
<th>m'i</th>
<th>Pi</th>
<th>EPi(C/mm)</th>
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<td>14.48</td>
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**BIOCLIMATIC INDICES AND DIAGNOSIS**

- Thermicity index...............(It): 519
- Compensated thermicity index........(Itc): 519
- Simple continentality index...........(Ic): 11.1
- Diurnality index...................(Id): 12.7
- Annual ombrothermic index.........(Io): 5.95
- Monthly dry ombrothermic index........(Iod1): 5.38
- Bimonthly dry ombrothermic index......(Iod2): 5.84
- Threemonthly dry ombrothermic index....(Iod3): 6.04
- Fourmonthly dry ombrothermic index......(Iod4): 5.97
- Annual ombro-evaporation index.........(Ioe): 1.23
- Annual positive temperature..........(Tp): 2521
- Annual negative temperature.........(Tn): 0
- Dry station temperature.............(Td): 472
- Positive precipitation................(Pp): 1499

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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...: Subtropical  
Continentality.....: Oceanic - High Semi hyperoceanic  
Bioclimate(Variant): TROPICAL PLUVIAL (HYGROPHYTIC)  
Bioclimatic Belt...: UPPER THERMOTROPICAL UPPER SUBHUMID
SAO BORJA (BRAZIL) 99 m

P= 1499 mm  28° 39’S  56° 0’W  21/21 y.
T=  21.0°  Ic=  11.1°  Tp=  2521 mm  Tn=  0
m=  10.2°  M=  20.7°  Itc=  519 mm  Io=  5.9°

M’= 36.9°
m’= 0.9°

TROPICAL PLUVIAL (HYGROPHYTIC)
UPPER THERMOTROPICAL UPPER SUBHUMID

WATER INDEX CARD SAO BORJA (BRAZIL)
Altitude: 99 m. Latitude: 28° 39’S

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<tr>
<th>(C/mm)</th>
<th>T PE</th>
<th>P VR</th>
<th>R RE</th>
<th>DF SP</th>
<th>DR HC</th>
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<td>-26</td>
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<td>Year</td>
<td>21.0</td>
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<td>1499</td>
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R = Reserve  VR = Variation of the reserve  RE = Real evapotranspiration
DR = Drainage  HC = Humidity coefficient  DF = Deficit  SP = Superavit

SAO BORJA (BRAZIL)

28°39’S  56°0’W  99 m  21/21 y.

T=  21.0°  Ic=  11.1°
M=  10.2°  Tp=  2521 mm
M’= 36.9°  Itc=  519 mm
m’= 0.9°  Io=  5.9°
P= 1499 mm
PE= 1059 mm

Imbibing  4 Feb.
Saturation  4 Apr.
Reserve Use  16 Nov.
Deficit

J  J  A  S  O  N  D  J  F  M  A  M  J

2
SAO BORJA (BRAZIL)
Latitude: 28°39'S   Longitude: 56°0'W   Altitude: 99 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Contintality Index
+ Type ................: B. Oceanic
+ Subtype .............: 1. Semihypperoceanic
+ Variant .............: a. High

Thermic types
+ Latitudinal zone ....: A. Warm
+ Latitudinal belt ....: 3. Subtropical
+ Thermic type ........: A. Warm
+ Thermic subtype .....: 2. Warm

Bioclimatic types
+ Macrobioclimate .....: A. TROPICAL
+ Bioclimate ..........: 5. PLUVIAL
+ Bioclimatic variant : a. UPPER
+ Thermic type........: 2. THERMOTROPICAL
+ Thermic subtype.....: a. UPPER
+ Ombrothermic type ...: 6. SUBHUMID
+ Ombrothermic subtype : a. UPPER

Bioclimatic Classification ....................: Trhd.Ttr.Shu

SAO BORJA (BRAZIL)
Latitude: 28°39'S   Longitude: 56°0'W   Altitude: 99 m

PRECIPITATION PARAMETERS

<table>
<thead>
<tr>
<th>Rainfall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
<th>Autumn</th>
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<tr>
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<td>Tr1-W</td>
<td>Tr2-P</td>
<td>Tr3-S</td>
<td>Tr4-F</td>
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<td>Positive precipitation warmest 3 months........(Pps): 404</td>
<td>412</td>
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<td>Positive precipitation warmest 2 months.........(Pps2): 268</td>
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<td>Positive precipitation warmest 1 month..........(Pps1): 137</td>
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<td>Positive precipitation coldest 3 months..........(Ppw): 285</td>
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<td>Positive precipitation coldest 2 months.........(Ppw2): 185</td>
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<td>Positive precipitation coldest 1 month..........(Ppw1): 84</td>
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Seasons
Rainfall
Winter Tr1-W 285
Spring Tr2-P 398
Summer Tr3-S 404
Autumn Tr4-F 412

Seasonal rainfall rhythms: F > S > P > W

SAO BORJA (BRAZIL)
Latitude: 28°39'S   Longitude: 56°0'W   Altitude: 99 m

TEMPERATURE PARAMETERS

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<th>Values</th>
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<td>Average coldest month [T]...................(Tmin): 15.6</td>
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<td>Maximum temp. warmest month [M]...........(Tmmax): 31.4</td>
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<td>Absolute Min.temp. coldest month [m'].....(Tamin): 0.9</td>
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### Ombrothermic Parameters

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<td>Winter</td>
<td>Spring</td>
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<table>
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<th>June- November</th>
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<td>6830 / 1101</td>
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### Aridity Value Index (AVI)

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<td>538</td>
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<td>Io (Iot)</td>
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<td>651</td>
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<td>Avs E[Avm&lt;200]</td>
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SAO BORJA (BRAZIL)
Latitude: 28°39’S   Longitude: 56°0’W   Altitude: 99 m

BIOCLIMATIC INDICES I
CI of Supan (1884) \[\text{Tmax}−\text{Tmin}\] .................(Sp): 11.10
CI of Gorezinski (1920) \[1.7*\text{Sp}/\sin(\text{Lat})−20.4\] ........: 18.96
CI of Conrad (1946) \[1.7*\text{Sp}/\sin(\text{Lat}+10)−14\] .............: 16.21
   + Hyperoceanic (-20<CI<20)
CI of Currey (1974) \[\text{CI}=\text{Sp}/(1+\text{Lat}/3)\] ...............: 1.05
   + Oceanic (0.6<CI<1.1)
Rainfall Index of Lang (1925) \[R=\text{P}/\text{T}\] ...............: 71.35
   + Temperate warm (100>R>60)
Aridity Index of Martonne (1926) \[I_a=\text{P}/(\text{T}+10)\] ......: 48.34
   + Humid (60>Ia>30)
I of Emberger (1930) \[Q=100*\text{P}/(\text{Tmax}^2−\text{Tmin}^2)\] ......: 169.20
   + Humid (Q>90)
I of Dantin & Revenga (1940) \[\text{DR}=100*\text{T}/\text{P}\] ..........: 1.40
   + Humid (2>DR>0)
Aridity Index of UNEP \[I=\text{P}/\text{PE}\] ...................: 1.42
   + Humid (I>0.65)
Potencial Erosion I of Fournier (1960) \[K=\text{Pi}^2/\text{P}\].....: 16.23
   + Very low (K<60)

SAO BORJA (BRAZIL)
Latitude: 28°39’S   Longitude: 56°0’W   Altitude: 99 m

BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
   + Climate ......: A. Warm and temperate warm
   + Region ......: 6. Termoaxeric (Axeric warm)
   + Thermic type: 2. Macrothermic

Thornthwaite (1948)

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<tr>
<td>P−E ratio</td>
<td>0.50</td>
<td>0.48</td>
<td>0.60</td>
<td>0.67</td>
<td>0.46</td>
<td>0.47</td>
<td>0.39</td>
<td>0.47</td>
<td>0.57</td>
<td>0.58</td>
<td>0.52</td>
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<td>T−E ratio</td>
<td>12.02</td>
<td>11.83</td>
<td>10.93</td>
<td>9.45</td>
<td>8.10</td>
<td>7.06</td>
<td>7.02</td>
<td>7.15</td>
<td>8.23</td>
<td>9.50</td>
<td>10.57</td>
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</tbody>
</table>

Precipitation-effectiveness: 62.17  Temperature-efficiency ....: 113.44

Moisture Index \[\text{MI}=100*(\text{P−PE})/\text{PE}\] ...............: 41.54
   + B2. Humid medium-humid (40<MI<60)
Index of dryness \[\text{DI}=100*\text{d}/\text{PE}\] .................: 0.00
   + No deficit (0<DI<16.7)
Index of humidity \[\text{HI}=100*\text{s}/\text{PE}\] .................: 41.54
   + Strong surplus (20<HI)
Potential Evapotranspiration \[\text{PE} \] .................: 1059.09
   + Forth mesothermic (997<PE<1440)