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

YENISEYSK (RUSSIA)  Altitude: 78 m.
Latitude: 58°27’N  Longitude: 92°9’E
Temperature observation period.: 1984−1994 (11)
Rainfall observation period....: 1984−1994 (11)

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<th>mi</th>
<th>M'i</th>
<th>m'i</th>
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BIOCLIMATIC INDICES AND DIAGNOSIS

| Thermicity index......................... | (It): | −453 |
| Compensated thermicity index............. | (Itc): | −33 |
| Simple continentality index............... | (Ic): | 40.0 |
| Diurnality index............................ | (Id): | 13.3 |
| Annual ombrothermic index.................. | (Io): | 4.38 |
| Bimonthly estival ombrothermic index...... | (Ios1): | 2.83 |
| Threemonthly estival ombrothermic index... | (Ios2): | 3.57 |
| Fourmonthly estival ombrothermic index.... | (Ios3): | 3.82 |
| Annual ombro-evaporation index............ | (Ioe): | 1.68 |
| Annual positive temperature............... | (Tp): | 639 |
| Annual negative temperature............... | (Tn): | 878 |
| Estival temperature....................... | (Ts): | 478 |
| Positive precipitation.................... | (Pp): | 280 |

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Latitudinal Belt....: Low subtropical
Continentality......: Continental - High Eucontinental
Bioclimate(Variant): BOREAL CONTINENTAL (STEPPI)
Bioclimatic Belt....: LOW MESOBOREAL LOW SUBHUMID
YENISEYSK (RUSSIA) 78 m

P = 528 mm 58° 27’N 92° 9’E 11/11 y.

T = -2.0° Ic = 40.0° Tp = 639° Tn = 878°
m = -25.0° M = -18.3° Itc = -33° Io = 4.4°

BOREAL CONTINENTAL (STEPPIC)
LOW MESOBOREAL LOW SUBHUMID

WATER INDEX CARD YENISEYSK (RUSSIA)
Altitude: 78 m. Latitude: 58° 27’N

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

YENISEYSK (RUSSIA)

58°27’N  92°9’E  78 m 11/11 y.

T = -2.0° Ic = 40.0°  BOREAL CONTINENTAL (STEPPIC)
m = -25.0° M = -18.3°  LOW MESOBOREAL
M’ = 33.9° Itc = -33°  LOW SUBHUMID
m’ = -50.0° Io = 4.4°
P = 528 mm  PE = 501 mm

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YENISEYSK (RUSSIA)
Latitude: 58°27'N Longitude: 92°9'E Altitude: 78 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continality Index ........................................... [C3b]
+ Type ..............: C. Continental
+ Subtype ...........: 3. Eucontinental
+ Variant ..........: b. High

Thermic types ........................................... [B2.D8, D3a.3b.6b]
+ Latitudinal zone ....: B. Temperate
+ Latitudinal belt ....: 2. Low subtemperate
+ Thermic type .......: D. Gelic
+ Thermic subtype ...: 8. Ultramicrothermic

Bioclimatic types ................................... [D3a.3b.6b]
+ Macrobioclimate .......: D. BOREAL
+ Bioclimate ...........: 3. CONTINENTAL
+ Bioclimatic variant : a. STEPPIC
+ Thermic type.........: 3. MESOBOREAL
+ Thermic subtype......: b. LOW
+ Ombrothermic type ...: 6. SUBHUMID
+ Ombrothermic subtype : b. LOW

Bioclimatic Classification .........................: Bosc(Stp).Sbo.Shu

PRECIPITATION PARAMETERS

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Seasonal rainfall rhythms:  S > F > W > P

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YENISEYSK (RUSSIA)
Latitude: 58°27’N   Longitude: 92°9’E   Altitude: 78 m

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YENISEYSK (RUSSIA)
Latitude: 58°27’N   Longitude: 92°9’E   Altitude: 78 m

OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P]:.................(Iar):    0.95
Mediterranean index of July.[PE/P]............(Im1):    2.86
Mediterranean index of July & August.............(Im2):    2.16
Mediterranean index of June, July & August....(Im3):    2.08

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Seasons
Winter:   Winter = 1823 / 478
Spring:   Spring = 3.815
Summer:   Summer = 6.61
Autumn:   Autumn = 4.49

Semesters
December−May:   December−May = 632 / 158
June−November:   June−November = 518 / 145

YENISEYSK (RUSSIA)
Latitude: 58°27’N   Longitude: 92°9’E   Altitude: 78 m

Aridity Value Index (AVI)
[10xPP/TP=IO]: 2798/639=4.38    There is No Yearly Aridity

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<td>Iom [Pp/Tp]</td>
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Avm [200-Iom]:   Avm = 545 / 283

Seasons
Winter:   Winter = 518 / 158
Spring:   Spring = 551 / 150
Summer:   Summer = 518 / 183
Autumn:   Autumn = 437 / 1823

There is No Yearly Aridity
YENISEYSK (RUSSIA)
Latitude: 58°27’N  Longitude: 92°9’E  Altitude: 78 m

**BIOCLIMATIC INDICES I**

- CI of Supan (1884) \[T_{max}−T_{min}\] ..................(Sp): 40.00
- CI of Gorezinski (1920) \[1.7*Sp/(\sin(Lat)−20.4)\] ..........: 59.39
- CI of Conrad (1946) \[1.7*Sp/(\sin(Lat+10)−14)\] ..........: 59.11
  + Subcontinental (40<CI<60)
- CI of Currey (1974) \[CI=Sp/(1+Lat/3)\] ...............: 1.95
  + Continental (1.7<CI<2.3)
- Rainfall Index of Lang (1925) \[R=P/T\] ...............:−265.32
  + Aridity Index of Martonne (1926) \[Ia=P/(T+10)\] ......: 65.95
  + Perhumid (Ia>60)
- I of Emberger (1930) \[Q=100*P/(T_{max}²−T_{min}²)\] ......:−943.22
  + Aridity Index of Dantin & Revenga (1940) \[DR=100*T/P\] ..........:−0.38
  + Humid (I>0.65)
- Potential Erosion I of Fournier (1960) \[K=Pi²/P\].....: 8.57
  + Very low (K<60)

**BIOCLIMATIC INDICES II**

Bioclimatic classification of Gaussen & Bagnouls (1957)
+ Climate ......: B. Cold and temperate cold
+ Region ......: 11. Psicroaxeric (Axeric cold)
+ Thermic type: 8. Ultramicrothermic

**Thorntwaite (1948)**

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<td>0.15</td>
<td>0.16</td>
<td>0.23</td>
<td>0.29</td>
<td>0.21</td>
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<td>0.30</td>
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<td>0.00</td>
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<td>8.25</td>
<td>6.75</td>
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Moisture Index \[MI=100*(P−PE)/PE\] ...............: 5.38
+ C2.Subhumid humid (0<MI<20)

Index of dryness \[DI=100*d/PE\] ..................: 24.44
+ Moderate deficit (16.7<DI<33.3)

Index of humidity \[HI=100*s/PE\] .................: 29.81
+ Strong surplus (20<HI)

Potential Evapotranspiration PE .................: 501.22
+ Second microthermic (427<PE<570)

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**RUSSIA**

°C 58°27’N / 92°9’E / 78 m

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