

S7: Modern climate stations comparable to the middle Miocene climate of the Yatağan Basin

| Country | City | Month | X3wet | X3wet (mm) | Month | X3dry | X3dry (mm) | X3wet/X3dry | MAP (mm) | MAT (°C) | Comment | |
|---------------------------|---------------------|---------------|----------|------------|---------|------------|------------|-------------|--------------------|-------------------------------|---------|--------------------------------------|
| Yatagan Basin Miocene min | | | | | | | | 2,80 | 1000 | 11,2 (Eskh. 11,2; Tinaz 12,3) | | |
| Yatagan Basin Miocene max | | | | | | | | 3,80 | 2000 | 15,2 (Eskh. 14; Tinaz 15,2) | | |
| | | | | | | | | | | | | |
| Spain | Pamplona | Nov–Jan | | 348 | Jun–Aug | | 177 | 1,97 | Cfb | 1042 | 12,30 | too low X3wet/X3dry ratio |
| Switzerland | Lugano | May–Jul | | 540 | Dec–Feb | | 209,4 | 2,58 | Cfb | 1364 | 11,40 | lower X3wet/X3dry ratio |
| | Lugano L | Apr–Jun | | 434 | Dec–Feb | | 209,4 | 2,07 | Cfb | 1687,3 | 11,90 | lower X3wet/X3dry ratio |
| Crimea | Yalta (Jalta) | Nov–Jan (Feb) | | 196 | Mar–May | | 112 | 1,75 | Cfa | 565 | 12,00 | too dry, too low X3wet/X3dry ratio |
| Russia | Sotchi | Nov–Jan | | 543 | May–Jul | | 277 | 1,96 | Cfa | 1514 | 14,50 | too low X3wet/X3dry ratio |
| | Sotchi L | Dec–Feb | | 465 | May–Jul | | 230 | 2,02 | | 1413 | 13,80 | lower X3wet/X3dry ratio |
| | Tuapse | Nov–Jan | | 422 | Apr–Jun | | 233 | 1,81 | Cfa | 1249 | 13,60 | too low X3wet/X3dry ratio |
| | Tuapse L | Nov–Jan | | 461 | Apr–Jun | | 237 | 1,95 | | 1371 | 13,50 | too low X3wet/X3dry ratio |
| W Turkey | Izmir | Dec–Feb | | 374 | Jun–Aug | | 15 | 24,93 | Csa | 687 | 16,70 | too dry, very high X3wet/X3dry ratio |
| SW Turkey | Muğla | Dec–Feb | | 654 | Jun–Aug | | 34 | 19,24 | Csa | 1109 | 15,30 | very high X3wet/X3dry ratio |
| N Turkey | Bahçeköy | Nov–Jan | | 383 | May–Jul | | 101 | 3,79 | borderline Cfa/Csa | 888 | 13,40 | too dry |
| | Kilyos | Nov–Jan | | 350 | May–Jul | | 96 | 3,65 | borderline Cfa/Csa | 824 | 13,90 | too dry |
| | Zonguldak | Nov–Jan | | 413 | Apr–Jun | | 174 | 2,37 | Cfb | 1113 | 13,90 | lower X3wet/X3dry ratio |
| | Kastamonu | Oct–Dec (Jan) | | 390 | May–Jul | | 135 | 2,89 | Cfa | 1015 | 13,80 | match |
| | Bozkurt | Oct–Dec | | 396 | May–Jul | | 145 | 2,73 | Cfa | 1023 | 13,70 | lower X3wet/X3dry ratio |
| | Rize | Oct–Dec | | 657 | Apr–Jun | | 289 | 2,27 | Cfa | 1860 | 14,30 | lower X3wet/X3dry ratio |
| | Hopa | Oct–Dec | | 748 | Mar–May | | 312 | 2,40 | Cfa | 2087 | 14,40 | too wet, lower X3wet/X3dry ratio |
| | | | | | | | | | | | | |
| Georgia | Poti | Aug–Oct | | 651 | Mar–May | | 270 | 2,41 | Cfa | 1907 | 14,40 | lower X3wet/X3dry ratio |
| | Kobuleti | Oct–Dec | | 791 | Mar–May | | 331 | 2,39 | Cfa | 2276 | 14,20 | wetter, lower X3wet/X3dry ratio |
| | Samtredia | Oct–Nov | | 513 | Mar–May | | 258 | 1,99 | Cfa | 1521 | 14,90 | lower X3wet/X3dry ratio |
| | Samtredia L | Oct–Nov | | 482 | Mar–May | | 236,6 | 2,04 | Cfa | 1432,4 | 14,40 | lower X3wet/X3dry ratio |
| | | | | | | | | | | | | |
| N Iran | Rasht | Sep–Nov | | 576 | May–Jul | | 126 | 4,57 | Cfa | 1359 | 15,80 | higher X3wet/X3dry ratio |
| | Kiashahr | Oct–Dec | | 582 | May–Jul | | 123 | 4,73 | borderline Cfa/Csa | 1295 | 15,60 | higher X3wet/X3dry ratio |
| Pakistan | Parachinar | Feb–Apr | | 296 | Oct–Dec | | 79 | 3,75 | Cfa | 785 | 15,00 | too dry |
| | Murree | Jul–Sep | 700(819) | | Oct–Dec | 122(156,6) | | 5,738(5,23) | Cwb | 1440 | 12,70 | too high X3wet/X3dry ratio |
| China | Fouzhou (Jiangxi) | Apr–Jun | | 720 | Oct–Dec | | 155 | 4,65 | Cfa | 1491 | 18,40 | too hot, higher X3wet/X3dry ratio |
| | Shaoxing (Zhejiang) | May–Jul | | 497 | Nov–Jan | | 156 | 3,19 | Cfa | 1321 | 16,90 | too hot |
| | Nanjing (Jiangsu) | Jun–Aug | | 443 | Dec–Feb | | 116 | 3,82 | Cfa | 1001 | 15,60 | |
| | Dongtai (Jiangsu) | Jun–Aug | | 499 | Dec–Feb | | 98 | 5,09 | Cfa | 985 | 14,60 | too high X3wet/X3dry ratio |
| | Dongtai (Jiangsu) L | Jun–Aug | | 500 | Dec–Feb | | 99 | 5,05 | Cfa | 1003 | 14,70 | too high X3wet/X3dry ratio |

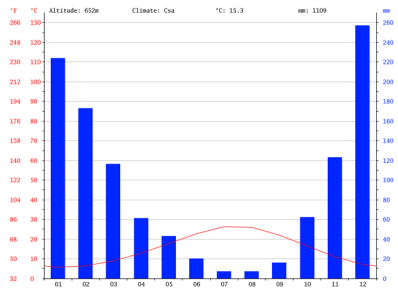
| | | | | | | | | | | |
|-------------|----------------------|---------|----------|---------------|-------------|--------------|-----|--------|-------|---|
| | Guiyang (Guizhou) | May–Jul | 574 | Dec–Feb | 66 | 8,70 | Cwa | 1170 | 16,20 | too hot, too high X3wet/X3dry ratio, wettest month prec 215/ driest month prec 20 mm |
| South Korea | Mokp'o (Mokposi) | Jun–Aug | 544 | Dec–Feb | 111(116,5) | 4,8(4,532) | Cfa | 1141 | 14,20 | too high X3wet/X3dry ratio |
| | Pusan (Busan) | Jun–Aug | 663(623) | Dec–Feb | 107,9 (112) | 6,145(5,563) | Cfa | 1380 | 14,10 | too high X3wet/X3dry ratio |
| Japan | Hiroshima (Honshu) | May–Jul | 658 | Dec–Feb | 200 | 3,29 | Cfa | 1640 | 14,40 | match |
| | Hiroshima (Honshu) L | May–Jul | 636 | Dec–Feb | 161,6 | 3,94 | Cfa | 1548,2 | 14,60 | |
| | Kameyama (Honshu) | Jun–Aug | 628 | Dec–Feb | 180 | 3,49 | Cfa | 1707 | 14,90 | match |
| | Kanzaki (Kyushu) | Jun–Aug | 801 | Nov–Jan (Feb) | 199 | 4,03 | Cfa | 1819 | 16,30 | too warm |
| | Kyoto (Honshu) | Jun–Aug | 664 | Dec–Feb | 225 | 2,95 | Cfa | 1730 | 15,40 | too warm |
| | Kyoto (Honshu) L | Jun–Aug | 583 | Dec–Feb | 179,9 | 3,24 | Cfa | 1569,5 | 14,30 | match |
| | Nagoya (Honshu) | Jun–Aug | 610 | Dec–Feb | 188 | 3,24 | Cfa | 1644 | 15,70 | too warm |
| | Nagoya (Honshu) L | Jul–Sep | 578 | Dec–Feb | 167,6 | 3,45 | Cfa | 1596,5 | 14,50 | match |
| | Onahama, (Honshu) | Aug–Oct | 475,2 | Dec–Feb | 147,4 | 3,22 | Cfa | 1369 | 13,30 | match |
| | Onahama, (Honshu) L | Aug–Oct | 518 | Dec–Feb | 122,9 | 4,21 | Cfa | 1379 | 13,10 | higher X3wet/X3dry ratio |
| | Sendai, (Honshu) | Jul–Sep | 507 | Dec–Feb | 188 | 2,70 | Cfa | 1286 | 11,90 | lower X3wet/X3dry ratio |
| | Sendai, (Honshu) L | Jul–Sep | 507 | Dec–Feb | 129,8 | 3,90 | Cfa | 1230 | 11,90 | higher X3wet/X3dry ratio |
| | Takasaki (Honshu) | Jul–Sep | 564 | Dec–Feb | 104 | 5,42 | Cfa | 1247 | 14,20 | too high X3wet/X3dry ratio |
| | Tokyo, (Honshu) | Aug–Oct | 507 | Dec–Feb | 159 | 3,19 | Cfa | 1435 | 15,60 | too warm |
| | Tokyo, (Honshu) L | Aug–Oct | 565 | Dec–Feb | 176 | 3,21 | Cfa | 1531,5 | 14,60 | match |
| | Yoshino (Honshu) | Jun–Aug | 787 | Dec–Feb | 216 | 3,64 | Cfa | 2124 | 14,20 | wetter, slight winter frosts possible |
| USA | Portland | Jun–Aug | 462 | Nov–Jan | 84 | 5,50 | Csb | 1001 | 11,90 | too high X3wet/X3dry ratio |

E USA: Cf climates too wet, too equable (low X3wet/X3dry) in the east,
too winter cold in the interior

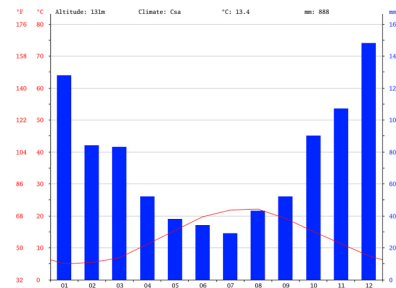
L (Lieth, 1999)

S7 (1) Modern climate stations comparable to the middle Miocene climate of the Yatağan Basin, southwestern Anatolia. Climate data from CLIMATE-DATA.ORG (<https://de.climate-data.org/info/sources/>) and Ustaoğlu (2012).
Selected Walter-Lieth climate diagrams

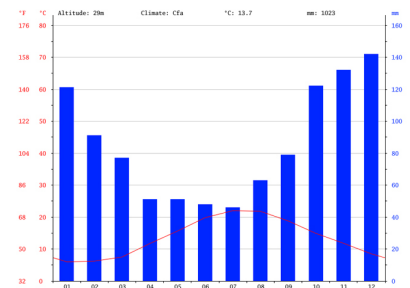
SW Turkey: Muğla



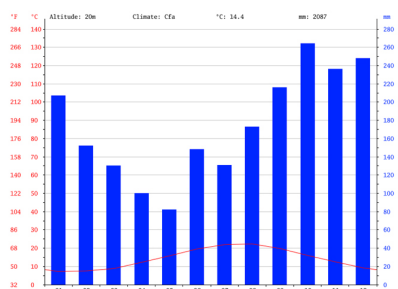
N Turkey: Bahçeköy



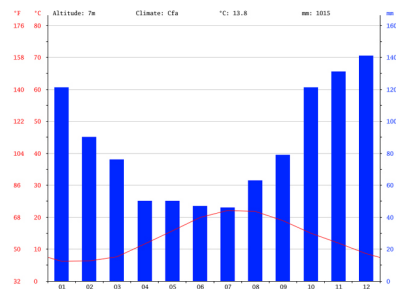
N Turkey: Bozurt



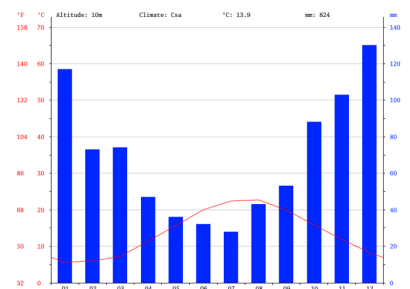
N Turkey: Hopa



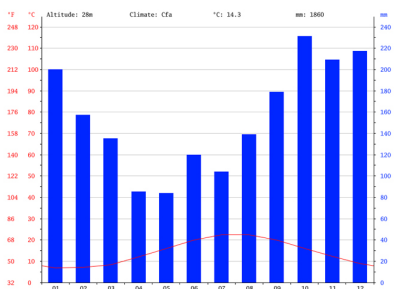
N Turkey: Kastamou



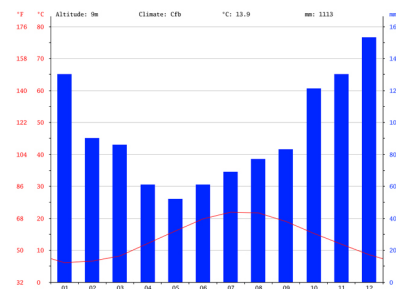
N Turkey: Kilyos



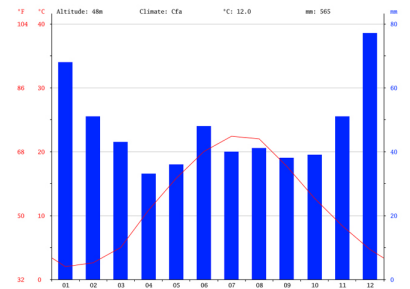
N Turkey: Rize



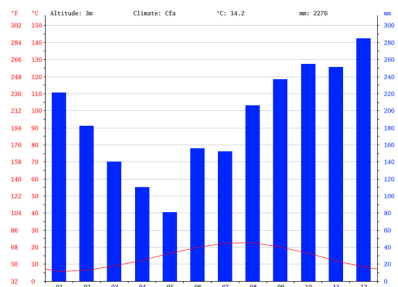
N Turkey: Zonguldak



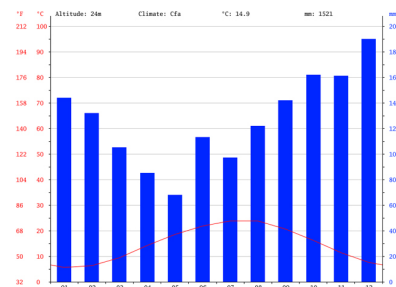
Crimea: Yalta



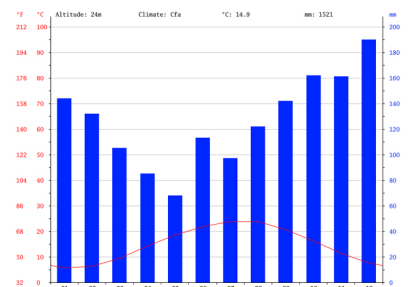
Georgia: Kobuleti



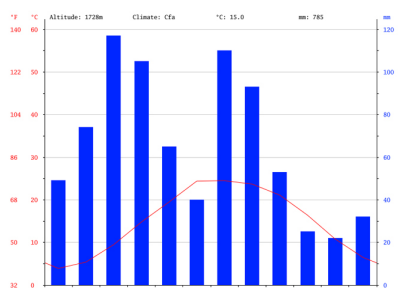
Georgia: Poti



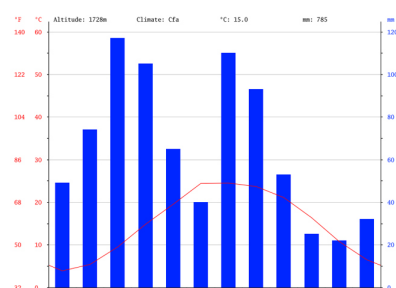
Georgia: Samtredia



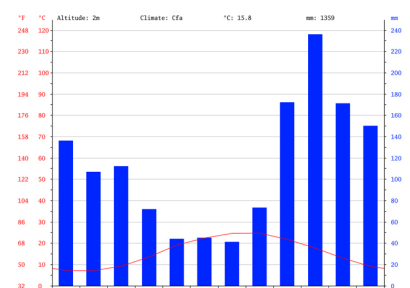
Pakistan: Murree



Pakistan: Parachinar

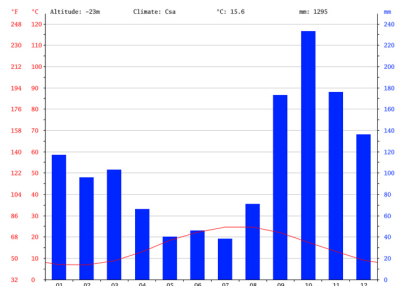


N Iran: Rasht

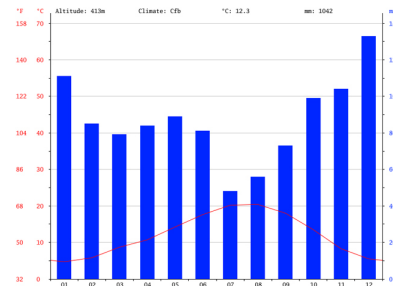


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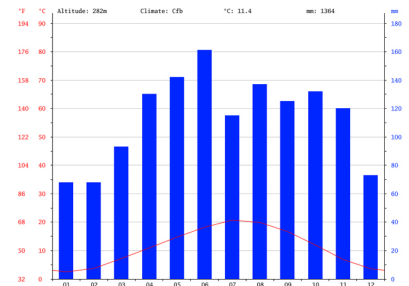
N Iran: Kiashahar



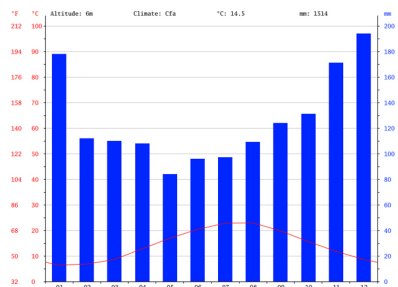
Spain: Pamplona



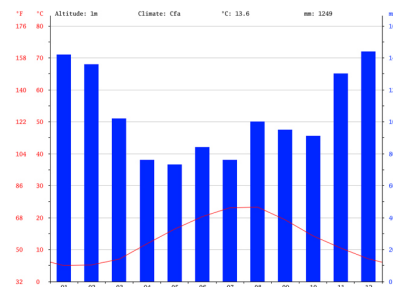
Switzerland: Lugano



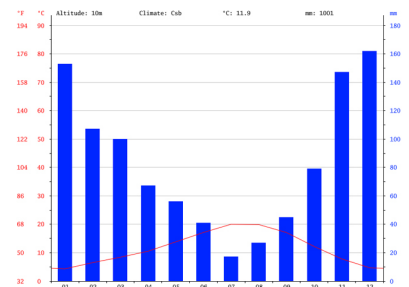
Russia: Sotchi



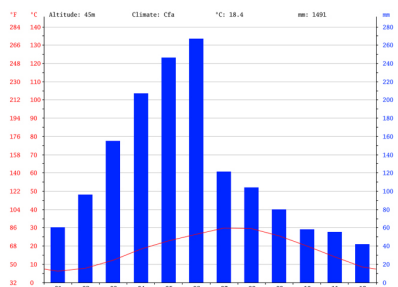
Russia: Tuapse



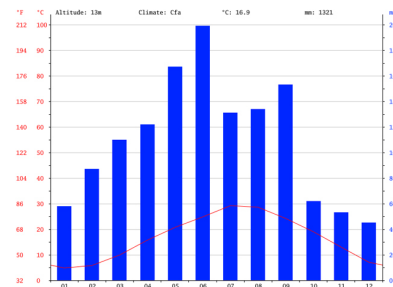
USA: Portland



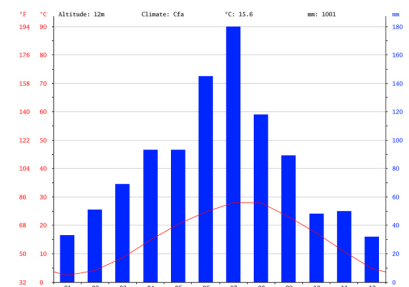
China: Fuzhou (Jiangxi)



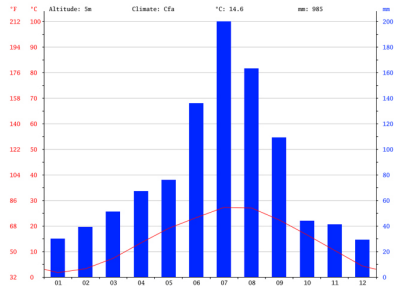
China: Shaoxing (Zhejiang)



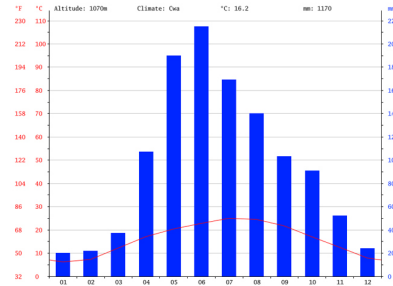
China: Nanjing (Jiangsu)



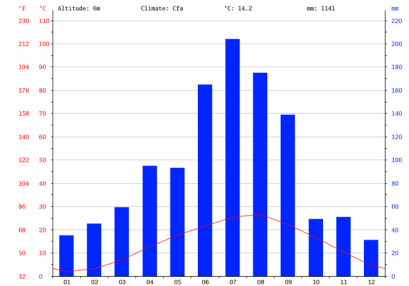
China: Dongtai (Jiangsu)



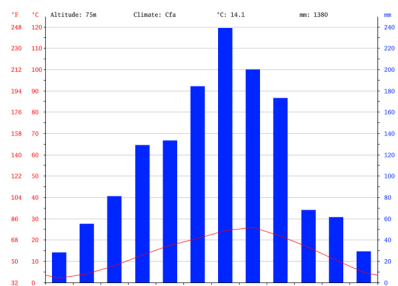
China: Guiyang (Guizhou)



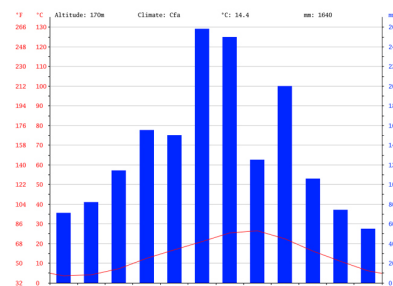
South Korea: Mok'po



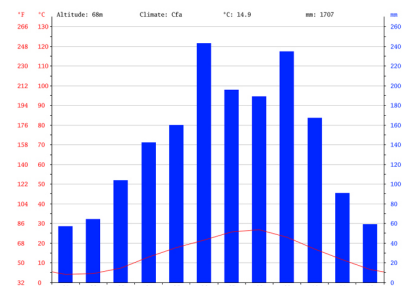
South Korea: Pusan



Japan: Hiroshima (Honshu)

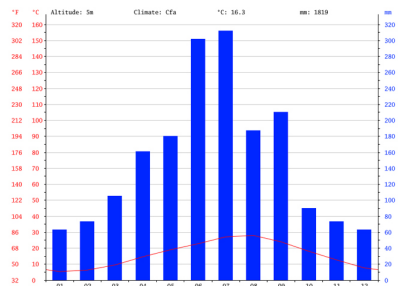


Japan: Kameyama (Honshu)

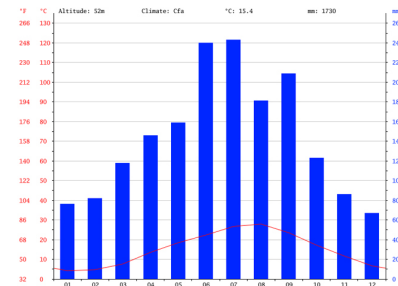


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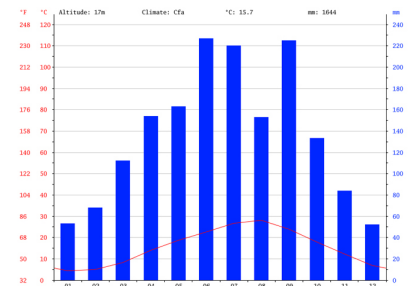
Japan: Kanzaki (Honshu)



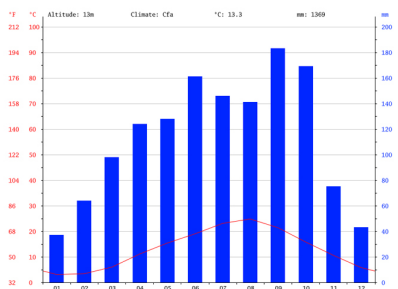
Japan: Kyoto (Honshu)



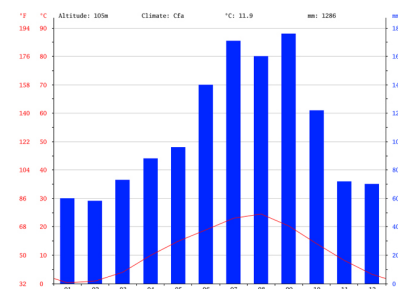
Japan: Nagoya (Honshu)



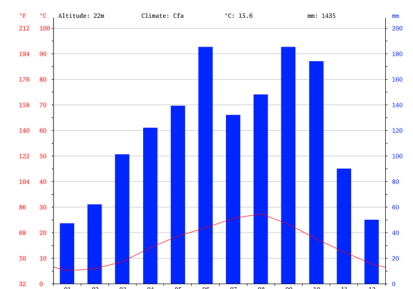
Japan: Onahama (Honshu)



Japan: Sendai (Honshu)



Japan: Tokyo (Honshu)



Japan: Yoshino (Honshu)

