Reporte de Modelos — Metepec

Ciclos incluidos: 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024

Generado: 2025-09-30 17:26

Días del ciclo: 170

ETc total [mm]: 592.3

ETverde total [mm]: 257.5

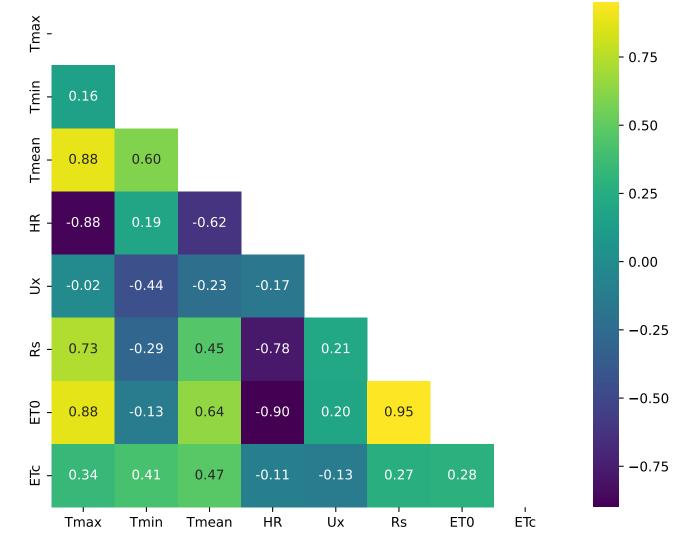
ETazul total [mm]: 334.9

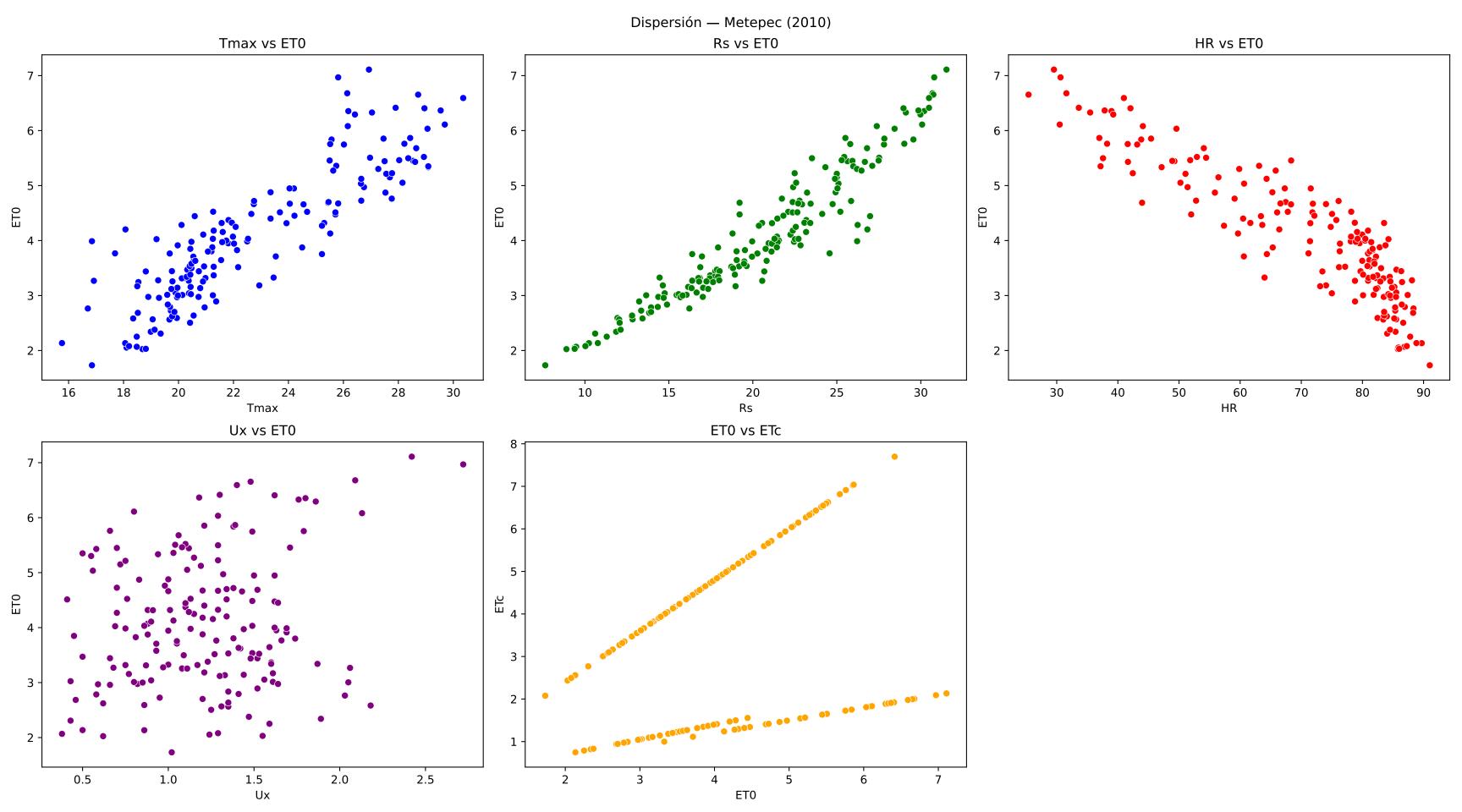
Tmax / Tmin [°C]: 30.4 / 2.1

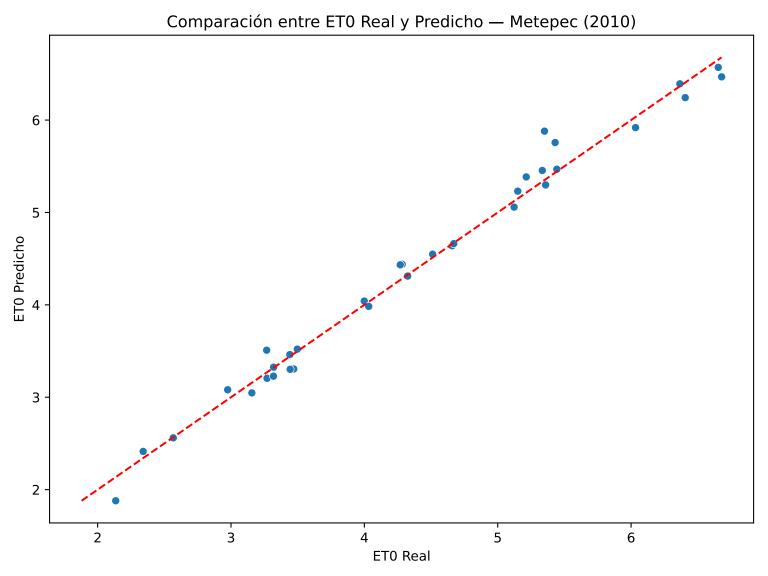
Metepec — 2010 · Resultados y métricas

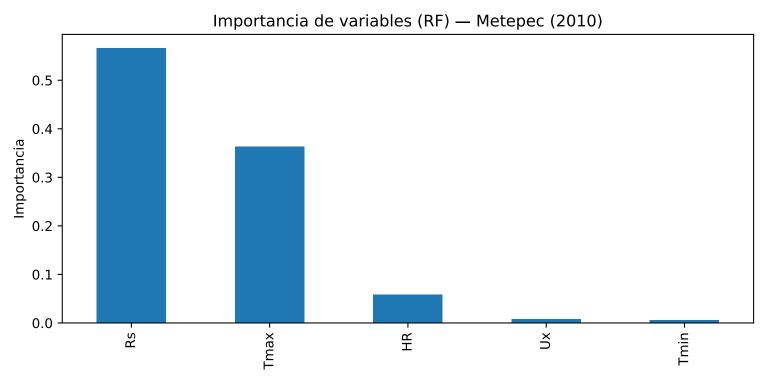
```
[Metepec 2010] Regresión Lineal ETO -R^2: 0.9847 MSE: 0.0237
[Metepec 2010] Random Forest ET0 - R^2: 0.9817 MSE: 0.0284
Importancias: {'Tmax': 0.3628683809429073, 'Tmin': 0.005339596909740279, 'HR': 0.05838533225013885, 'Ux':
0.007273602936513567, 'Rs': 0.5661330869607}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                   mean
                                                       mean
                                                                 mean
                                                                           mean
             mean
                                            mean
cluster
                                                             2.886705 2.615321
0
        19.881000 10.859200 83.544000 0.963600
                                                  14.457000
        27.642273
                  11.080909 51.154545
                                        0.990455
                                                  25.601364
                                                             5.396233
                                                                       6.475479
        22.565102
                   10.528980 74.914082 1.218163
                                                  21.405714
                                                            4.148897
                                                                      4.664277
        27.196400
                   8.765200 42.865600 1.473200
                                                  27.257600
                                                            5.854342 1.756303
        19.292500
                    6.970417 78.699167 1.578750 19.589583 3.386965 1.944063
```

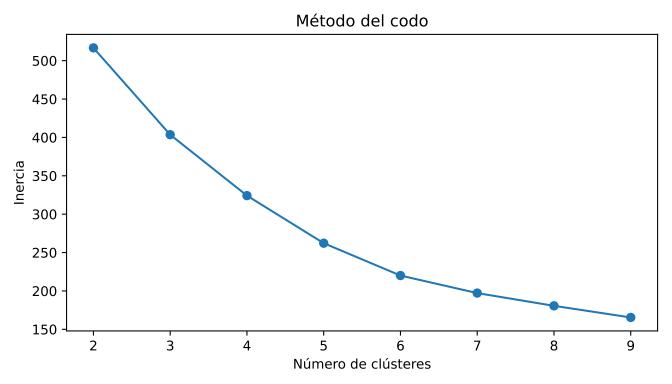
Matriz de Correlación entre Variables Meteorológicas





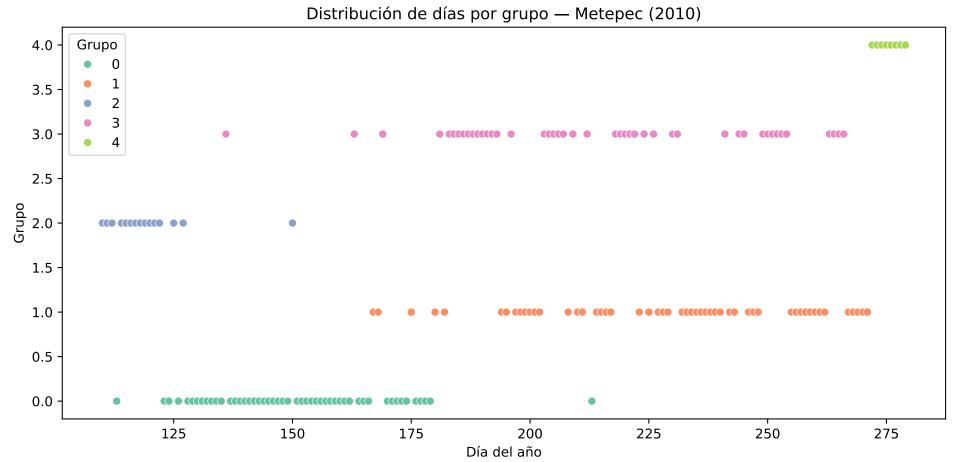


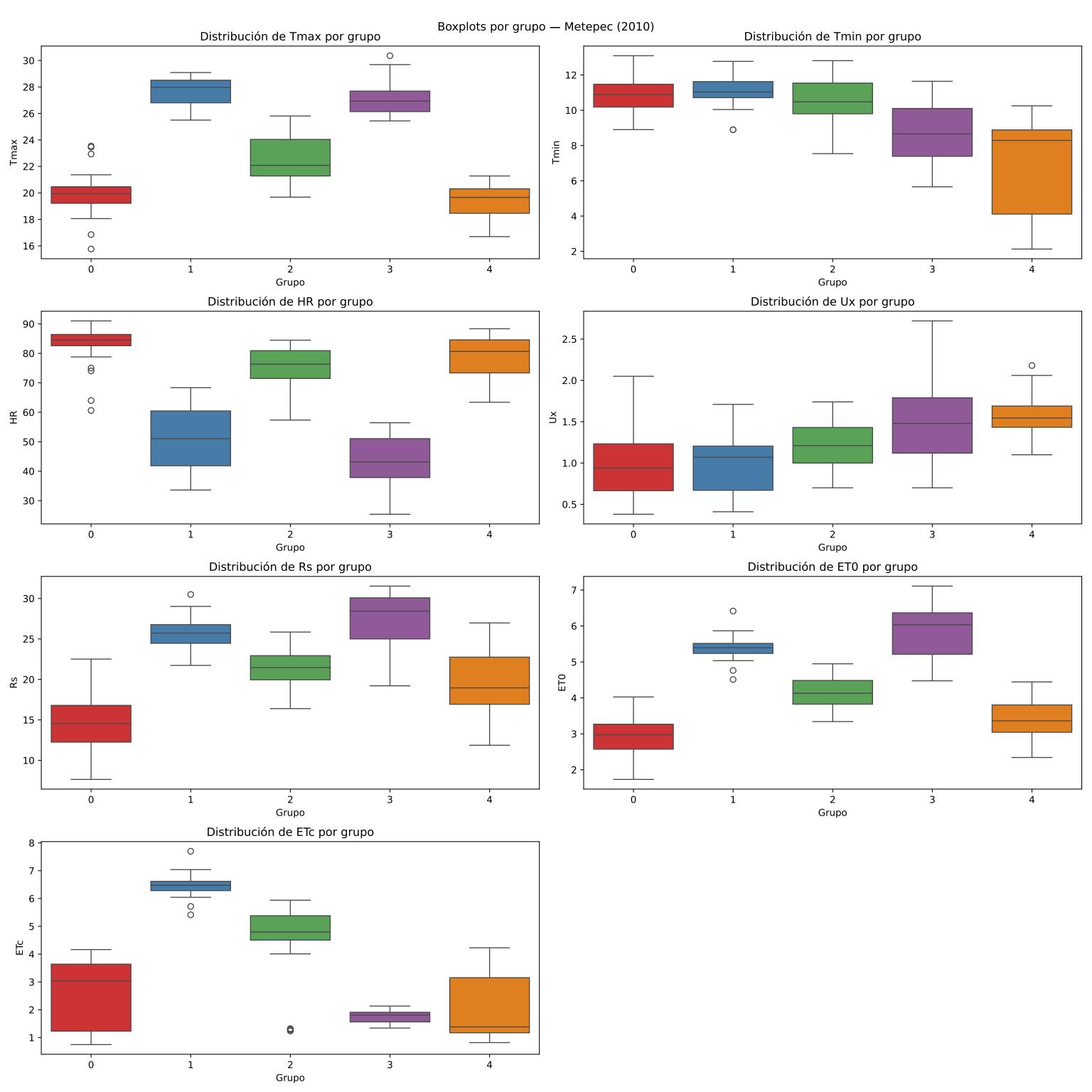




Clasificación de días climáticos — Metepec (2010) Grupo § 20

Tmax





Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2010) Grupo § 20

Tmax

Días del ciclo: 170

ETc total [mm]: 608.3

ETverde total [mm]: 256.8

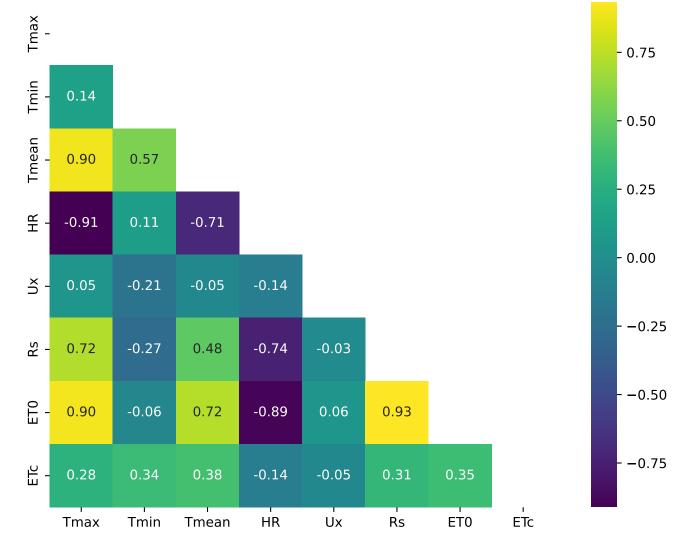
ETazul total [mm]: 351.6

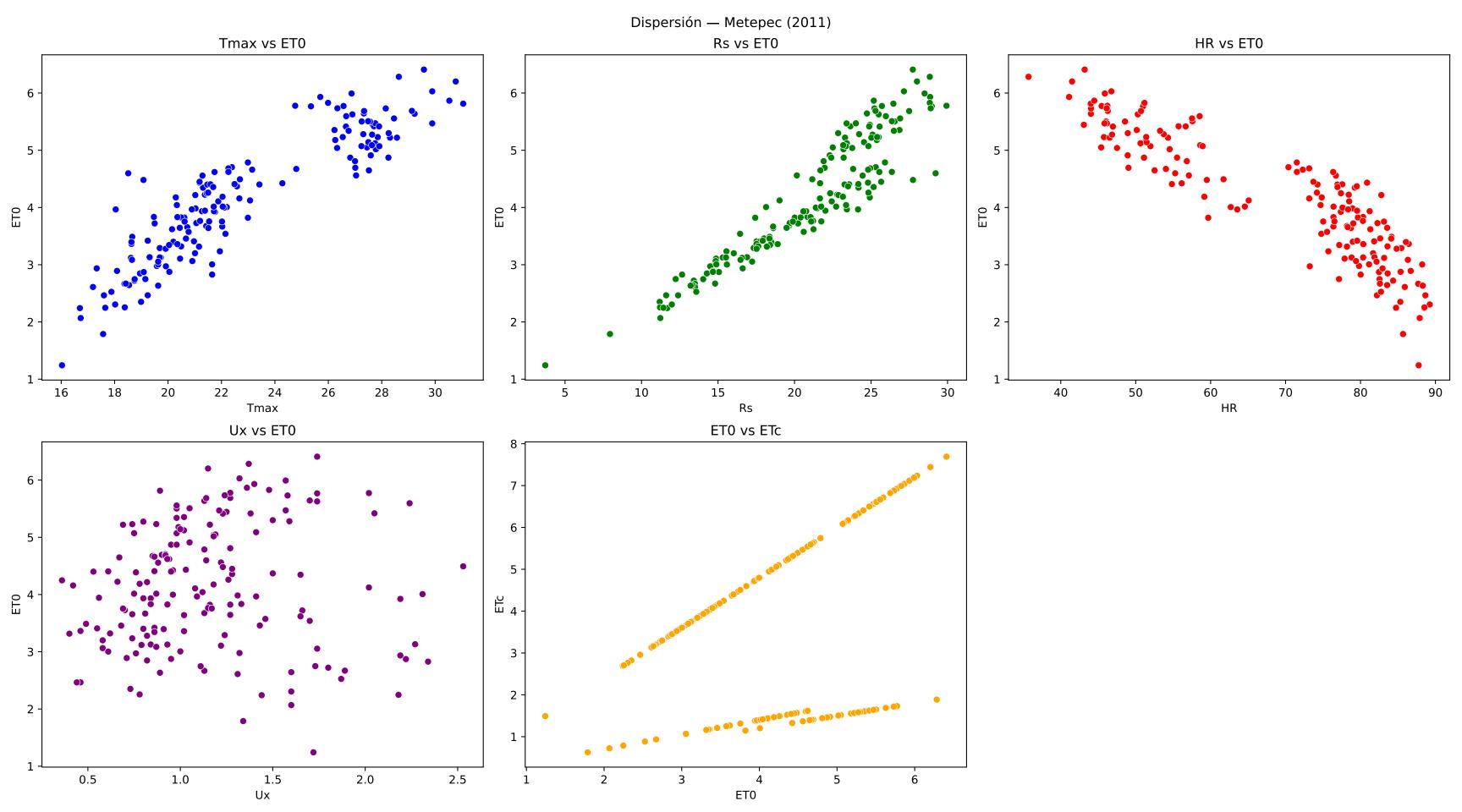
Tmax / Tmin [°C]: 31.1 / 0.6

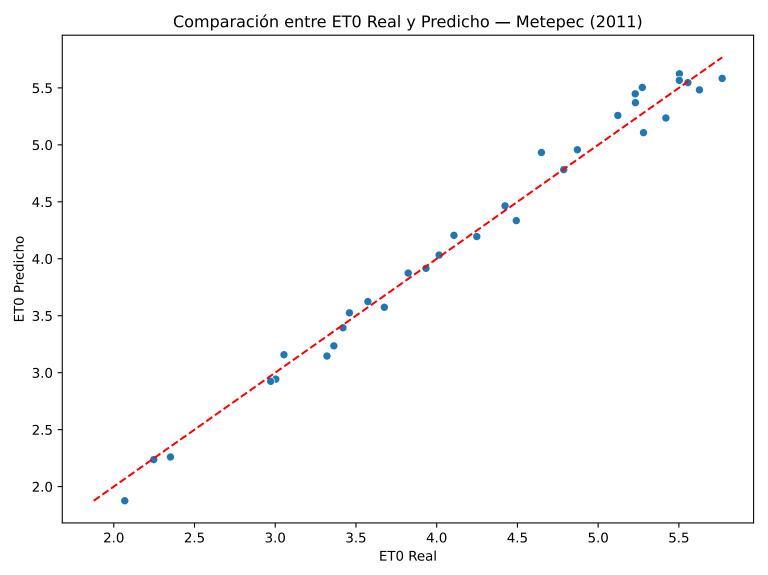
Metepec — 2011 · Resultados y métricas

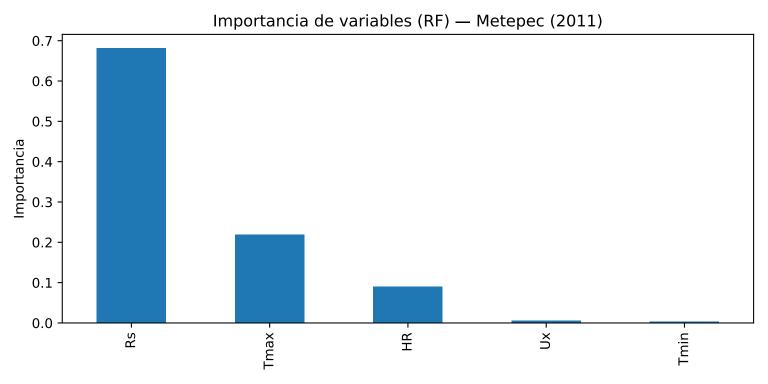
```
[Metepec 2011] Regresión Lineal ETO - R^2: 0.9856 MSE: 0.0158
[Metepec 2011] Random Forest ET0 - R^2: 0.9816 MSE: 0.0202
Importancias: {'Tmax': 0.21943514390441396, 'Tmin': 0.0036462874509795113, 'HR': 0.08970735770749039, 'Ux':
0.00567314205020727, 'Rs': 0.6815380688869089}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                   mean
                                                       mean
                                                                 mean
                                                                           mean
             mean
                                            mean
cluster
0
        27.636897
                    9.827241 50.996897 1.235517
                                                  26.265862 5.556014
                                                                      6.667217
        21.056957
                    6.254783 71.184783 1.069130
                                                  23.290000
                                                            4.058031 1.410151
                    9.190870 80.441304 1.880435
                                                  14.470000
        19.173913
                                                             2.888883
                                                                      2.779340
        27.188621
                    9.733793 49.148621 1.225517
                                                  23.839310 5.179899 1.553970
        20.545303
                   10.490000 80.592424
                                        0.864394 18.725152 3.570822 4.144869
```

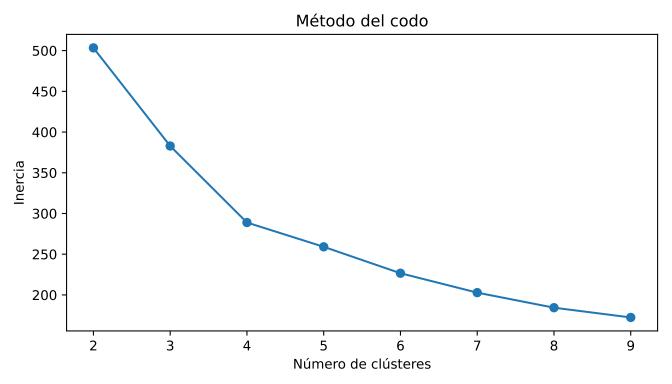
Matriz de Correlación entre Variables Meteorológicas



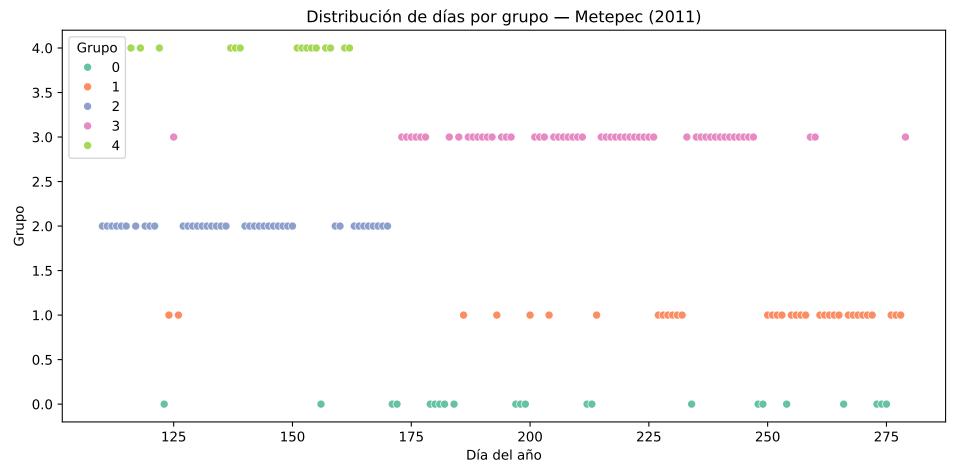


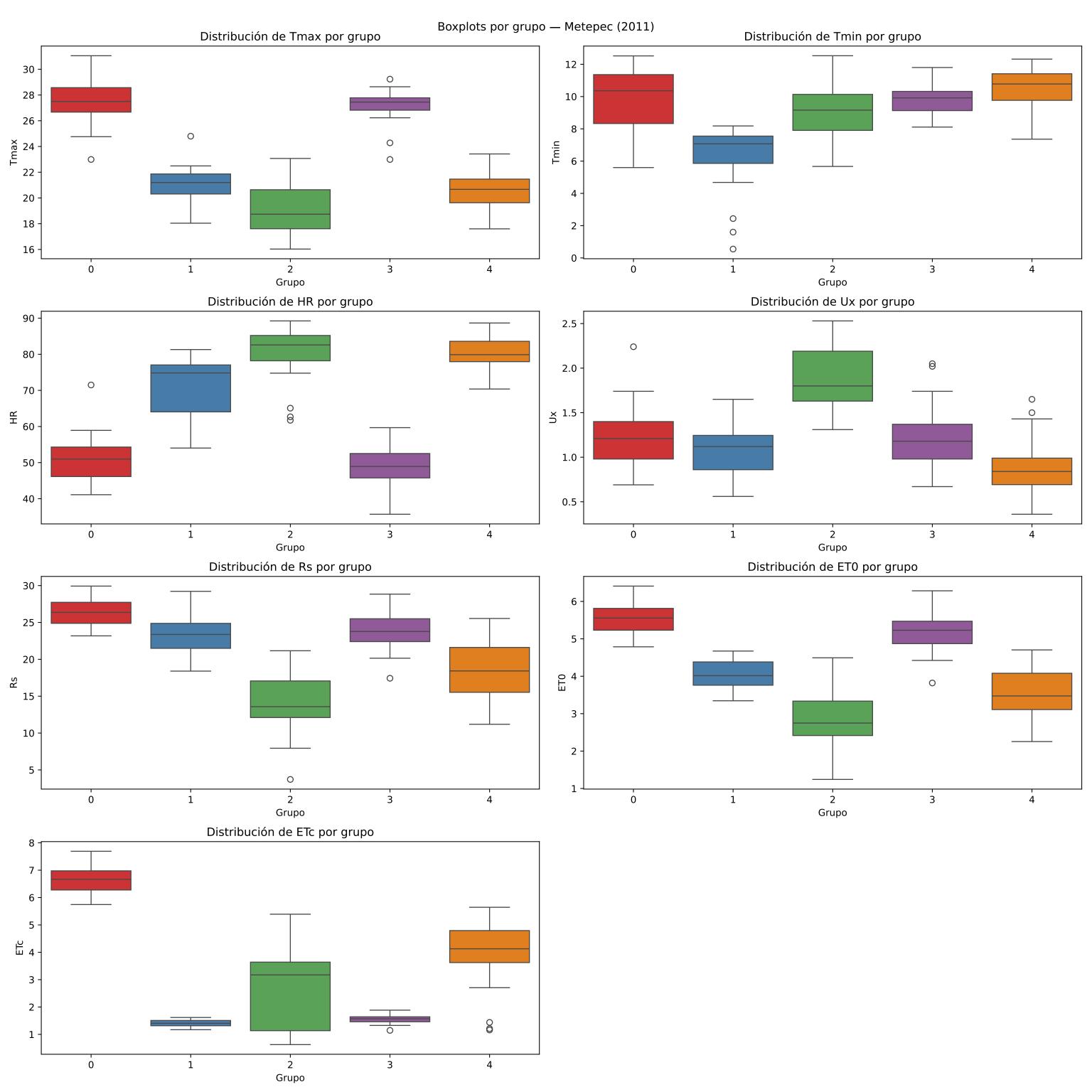






Clasificación de días climáticos — Metepec (2011) Grupo 3 Tmax





Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2011) Grupo Tmax

Días del ciclo: 170

ETc total [mm]: 586.2

ETverde total [mm]: 251.3

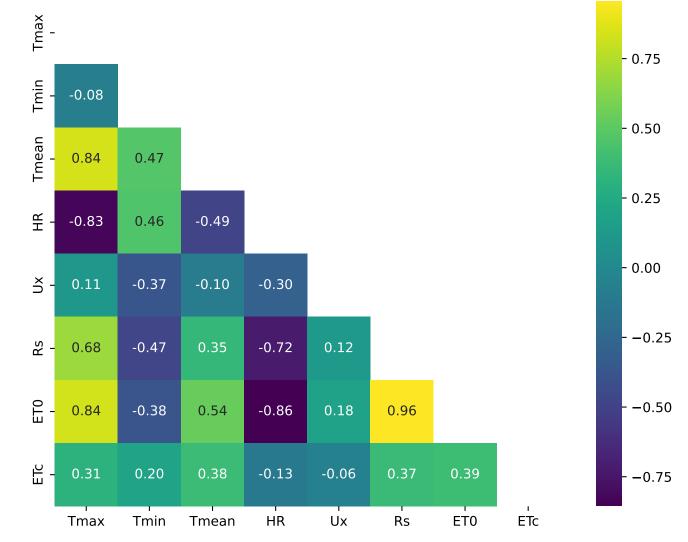
ETazul total [mm]: 335.0

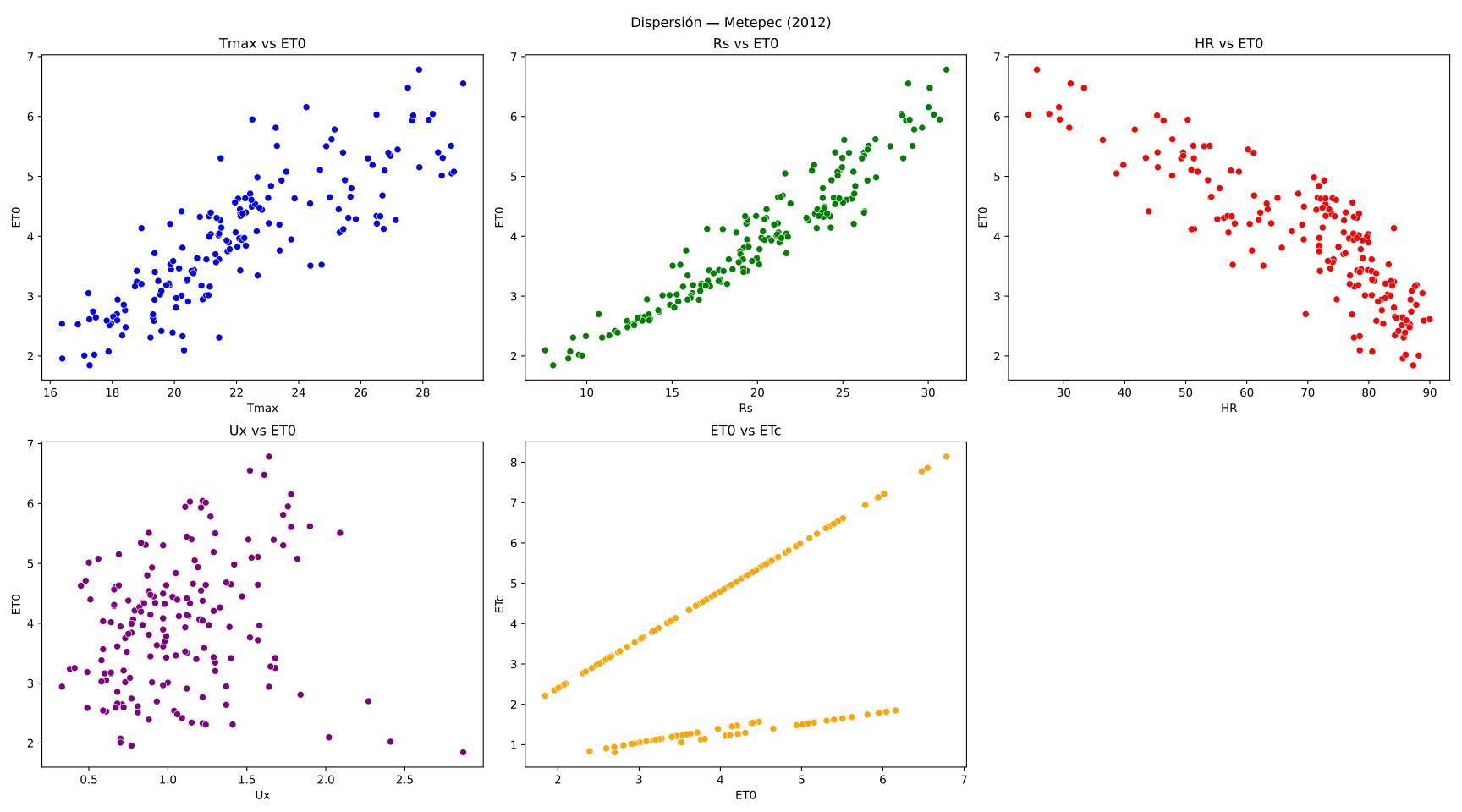
Tmax / Tmin [°C]: 29.3 / 1.5

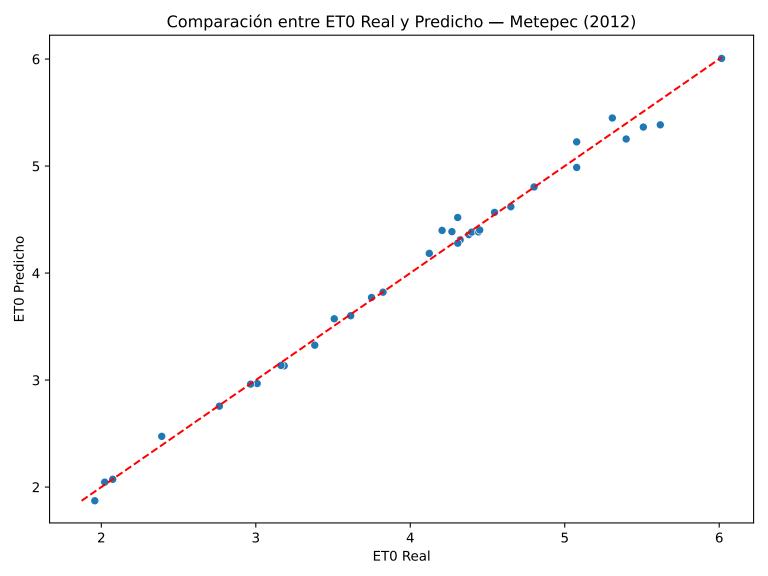
Metepec — 2012 · Resultados y métricas

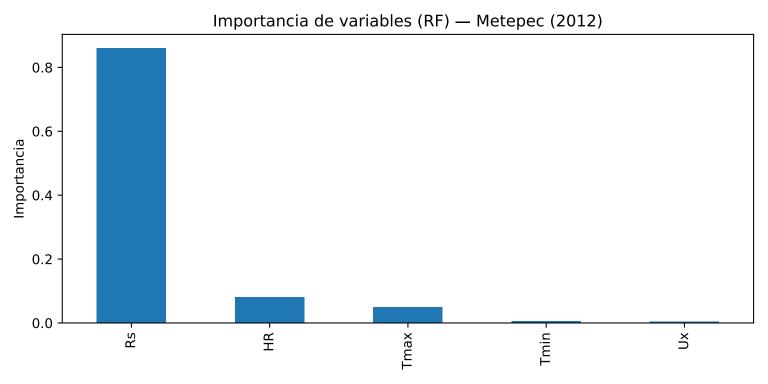
```
[Metepec 2012] Regresión Lineal ETO -R^2: 0.9925 MSE: 0.0083
[Metepec 2012] Random Forest ET0 - R^2: 0.9813 MSE: 0.0207
Importancias: {'Tmax': 0.04928037407397803, 'Tmin': 0.0060694725460957695, 'HR': 0.08063034505963224, 'Ux':
0.0037229137008891093, 'Rs': 0.8602968946194047}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                   mean
                                                       mean
                                                                 mean
                                                                           mean
             mean
                                            mean
cluster
0
        19.020000
                  10.400000 83.132927 0.757317
                                                  14.184390
                                                             2.807482 2.706825
        22.212885
                    9.633654 73.513654
                                        0.923846
                                                  22.291154 4.219677 4.633298
        24.113889
                    5.303333 44.437778 1.508889
                                                  27.070556
                                                            5.339687 1.913501
        27.049355
                    9.720000
                              50.280000 1.108710
                                                  24.134516
                                                            5.149699 4.891981
        20.243571
                    8.729643 77.784643 1.468571 15.987143 3.113190 1.721873
```

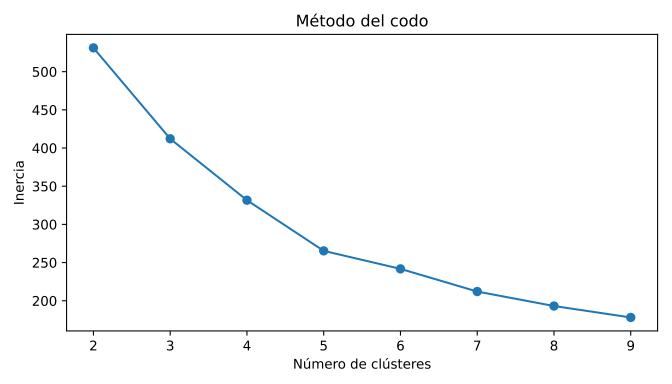
Matriz de Correlación entre Variables Meteorológicas



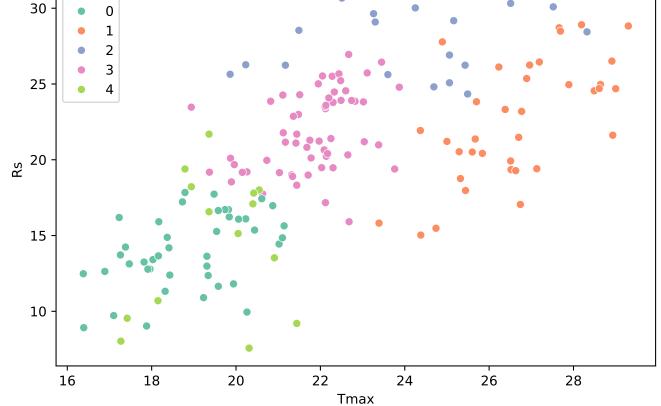




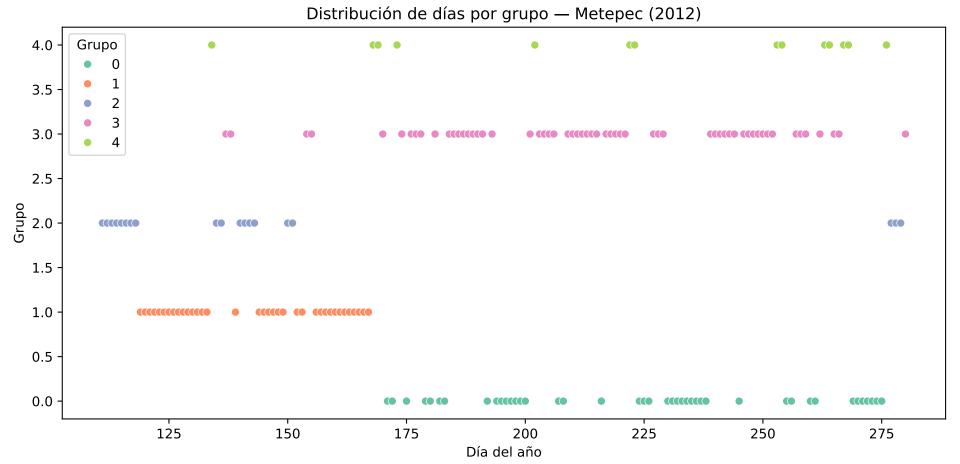


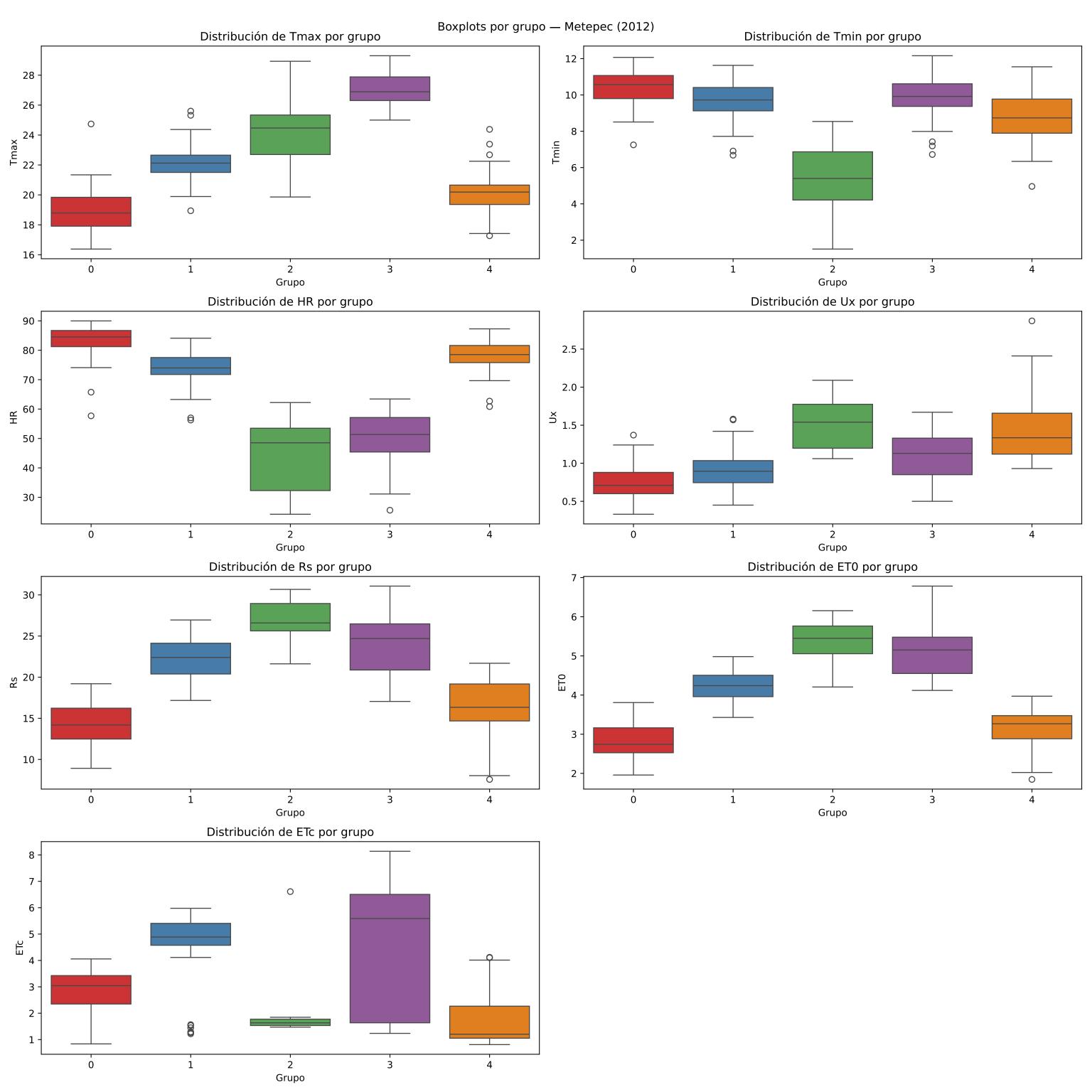


Clasificación de días climáticos — Metepec (2012)

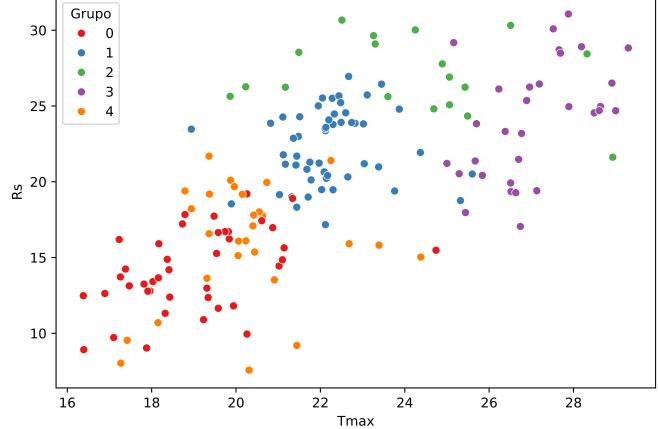


Grupo





Clasificación de días climáticos (ETO/ETc incluidos) — Metepec (2012)



Días del ciclo: 170

ETc total [mm]: 590.2

ETverde total [mm]: 278.2

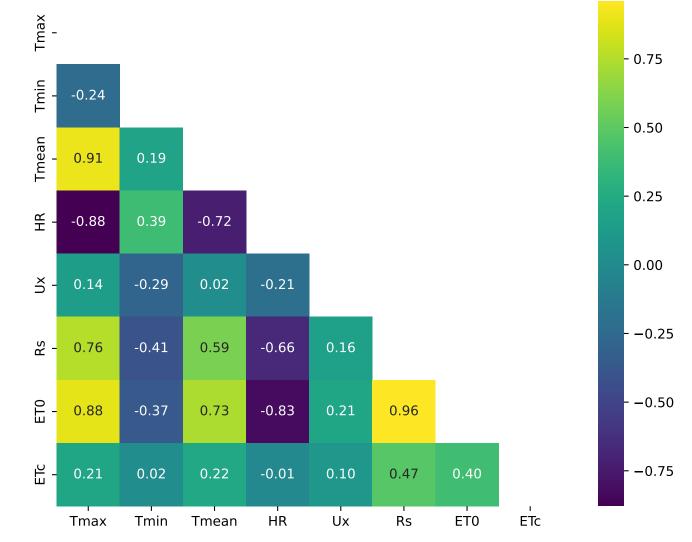
ETazul total [mm]: 312.0

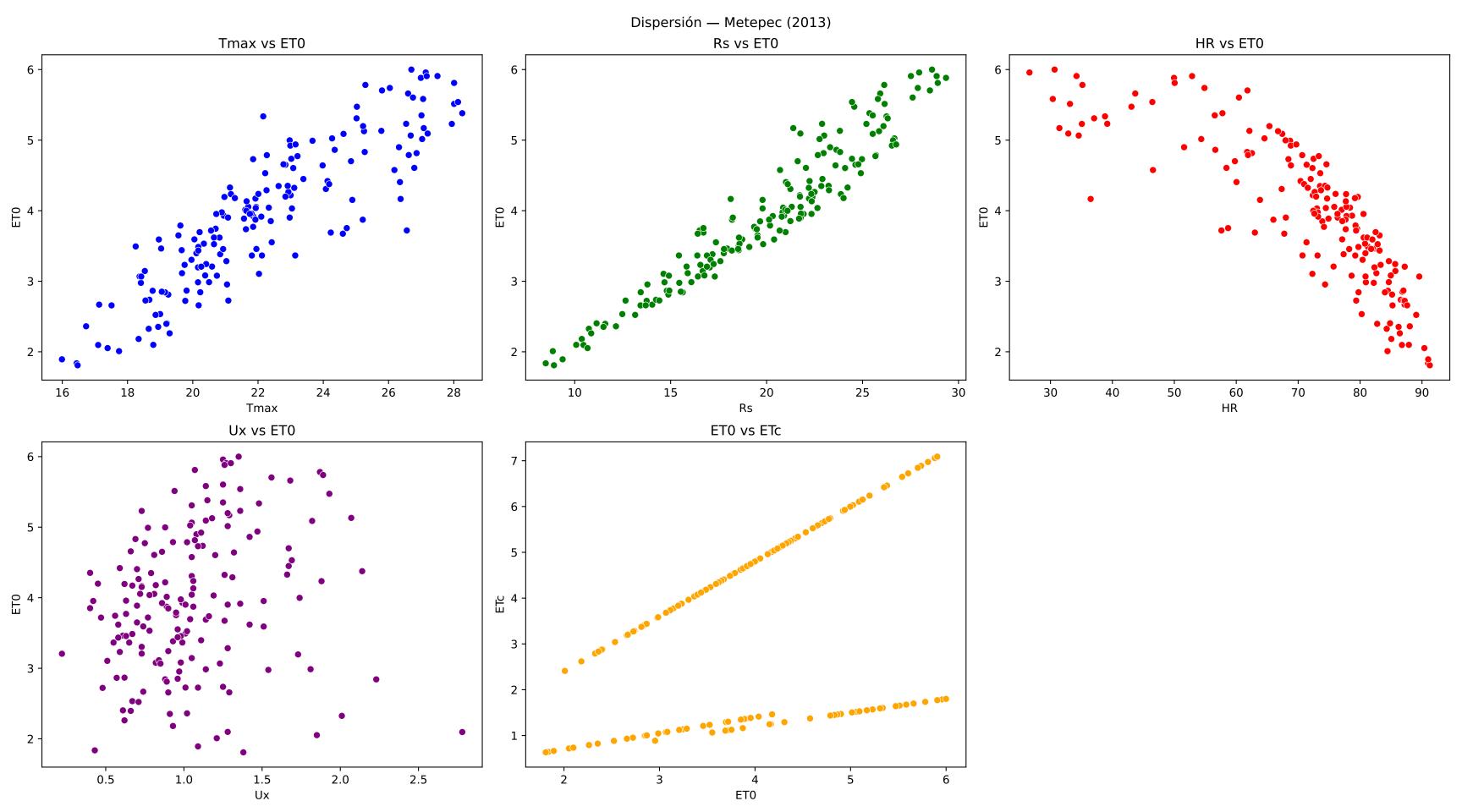
Tmax / Tmin [°C]: 28.3 / 5.8

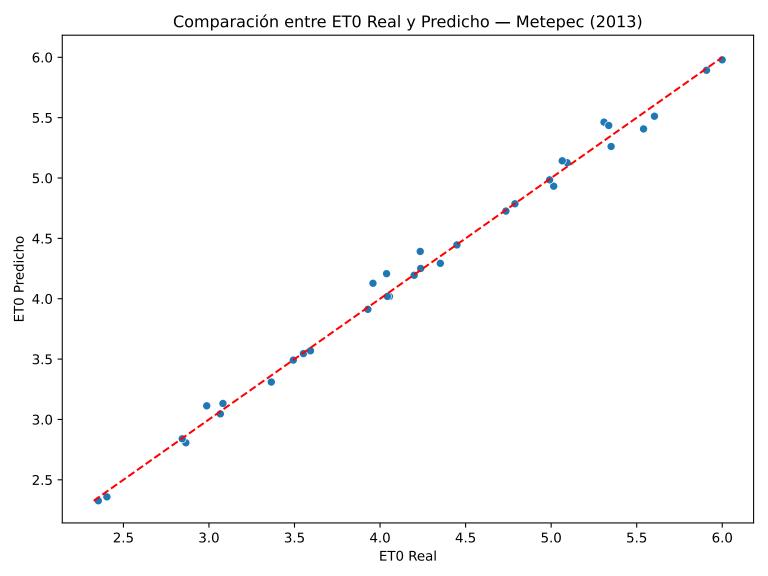
Metepec — 2013 · Resultados y métricas

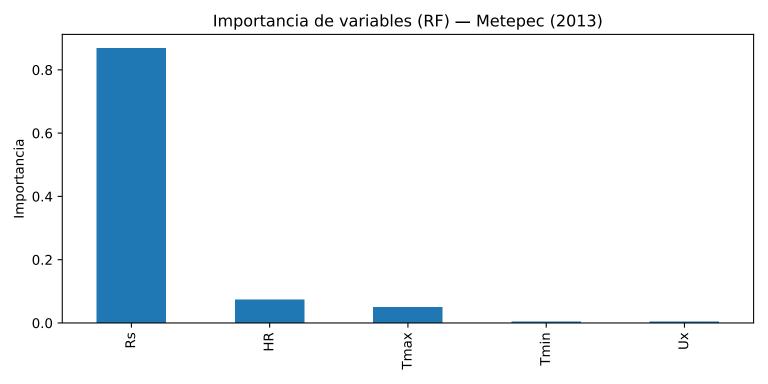
```
[Metepec 2013] Regresión Lineal ETO -R^2: 0.9941 MSE: 0.0059
[Metepec 2013] Random Forest ETO - R^2: 0.9868 MSE: 0.0131
Importancias: {'Tmax': 0.04960491434818718, 'Tmin': 0.004346139496769131, 'HR': 0.07407324253950605, 'Ux':
0.003408932522024157, 'Rs': 0.8685667710935134}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                                 mean
                                                                          mean
             mean
                                            mean
                                                       mean
cluster
0
        18.867750 10.203750 85.324250 1.113750
                                                  13.382000
                                                            2.627608 2.055398
                                                            4.922214 5.906657
        24.347429
                    9.288000 65.577714 1.346857
                                                  25.073143
2
                    8.540000
                             38.576000 1.254500
                                                  24.400000
                                                            5.291524 1.587457
        26.310000
                   10.349245 76.763396 0.858491 19.610566 3.791563 4.549876
        21.456792
        23.013636
                    9.927727 71.761364 0.787273 20.381364 3.947975 1.287514
```

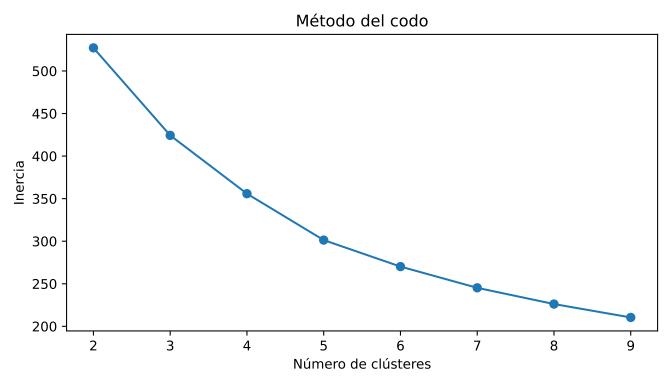
Matriz de Correlación entre Variables Meteorológicas



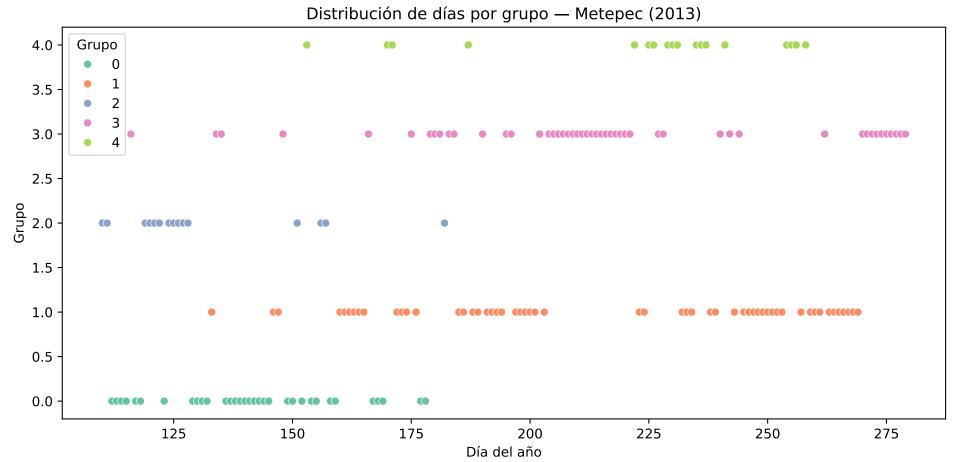


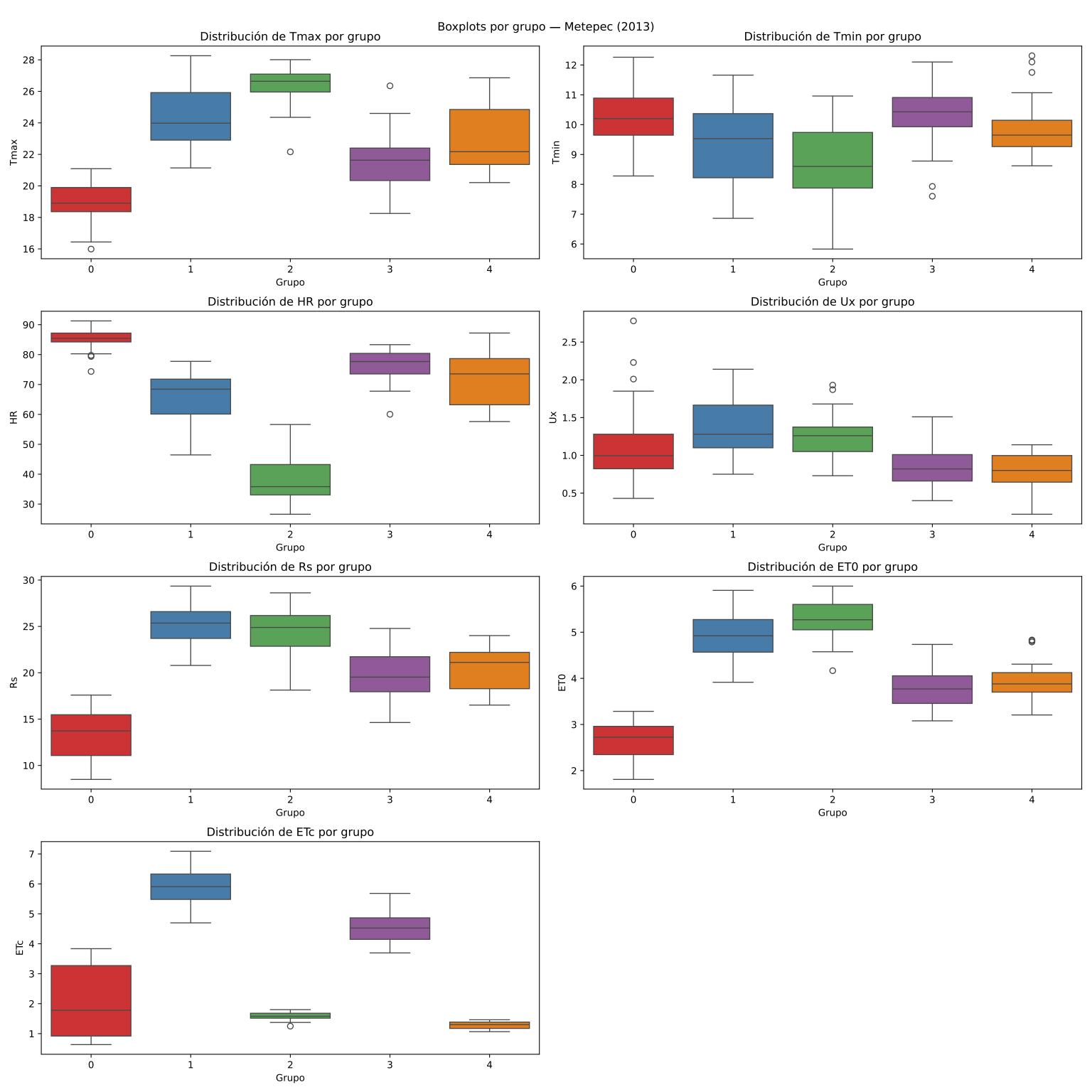


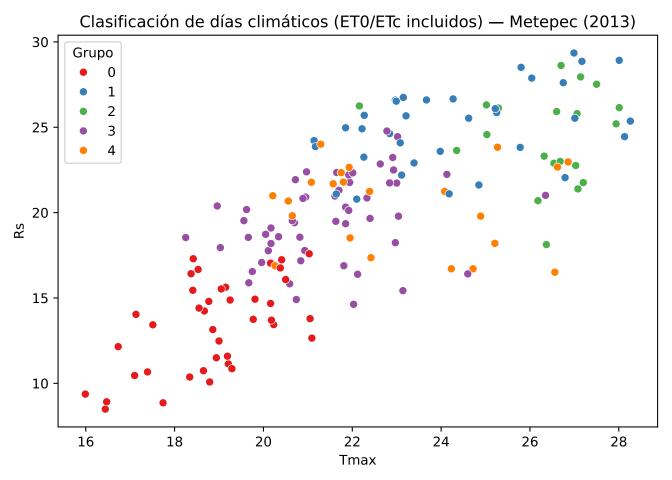




Clasificación de días climáticos — Metepec (2013) Grupo 10 -Tmax







Días del ciclo: 170

ETc total [mm]: 559.8

ETverde total [mm]: 307.0

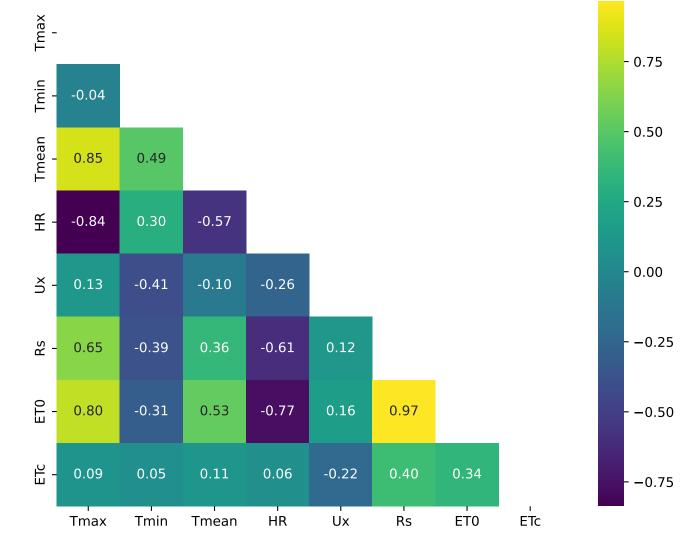
ETazul total [mm]: 252.8

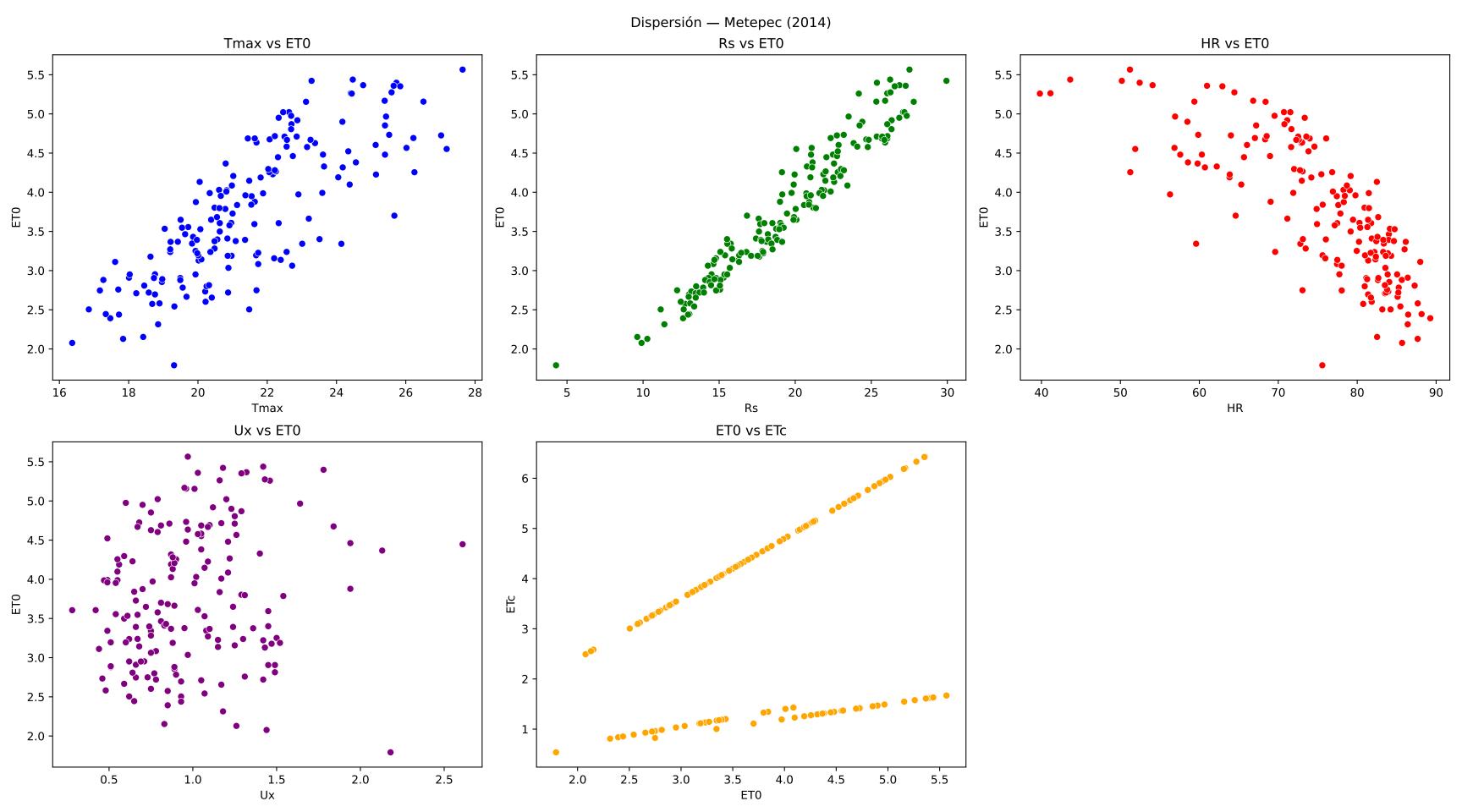
Tmax / Tmin [°C]: 27.6 / 3.5

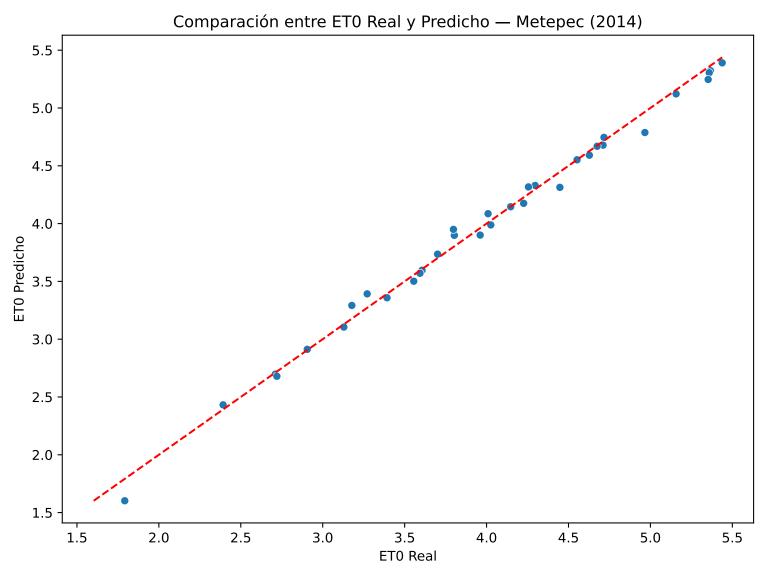
Metepec — 2014 · Resultados y métricas

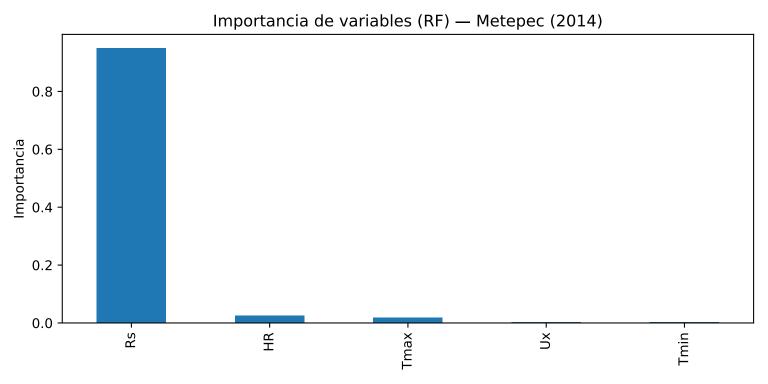
```
[Metepec 2014] Regresión Lineal ETO -R^2: 0.9928 MSE: 0.0058
[Metepec 2014] Random Forest ET0 - R^2: 0.9614 MSE: 0.0312
Importancias: {'Tmax': 0.018992556645414625, 'Tmin': 0.0029410766091106082, 'HR': 0.02509691680426159, 'Ux':
0.003367727680389648, 'Rs': 0.9496017222608235}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                   mean
                                            mean
                                                       mean
                                                                 mean
                                                                           mean
             mean
cluster
0
        22.608095
                    9.343095 71.969048 1.037619
                                                  24.184286
                                                            4.558091 5.469709
        19.297143
                    9.906735 83.281633 1.089184
                                                  15.260408 2.914356 1.798059
2
        24.328000
                    7.391000 51.486000 1.567000
                                                  25.425000
                                                             5.149378 1.544813
        20.817800
                   10.684600 79.458600 0.740200
                                                  17.387800
                                                            3.411309 4.028266
                   10.329474
                             60.260000 0.940000
                                                  21.141579 4.406796 1.322039
        25.036316
```

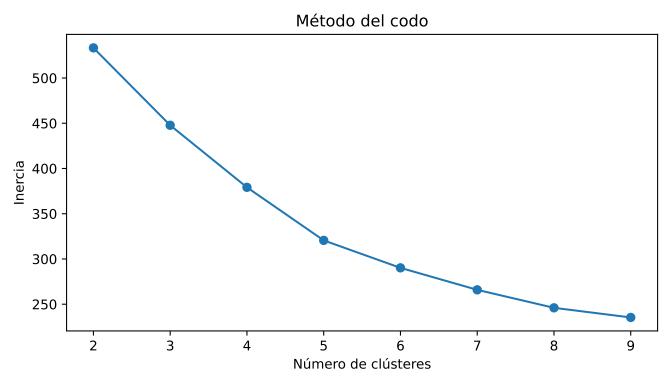
Matriz de Correlación entre Variables Meteorológicas

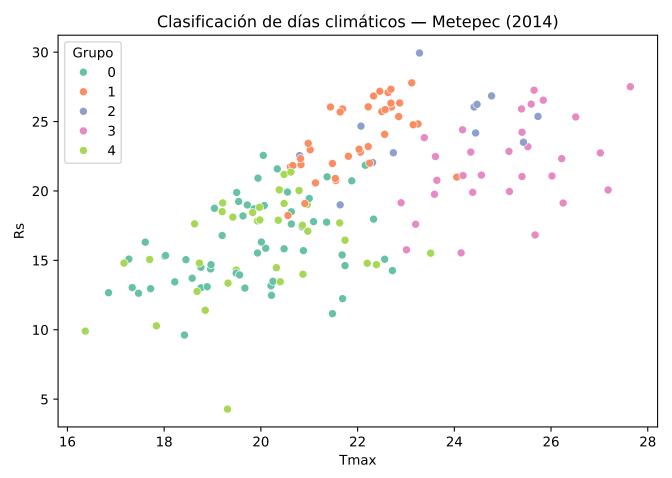


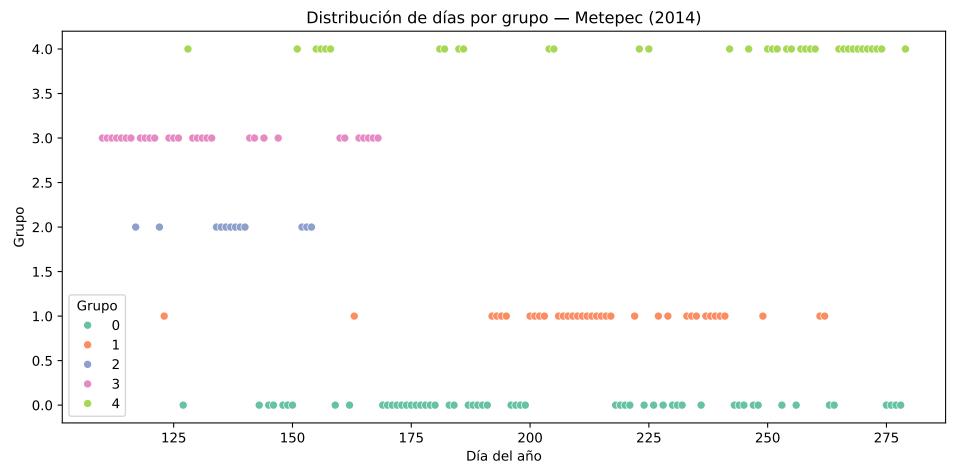


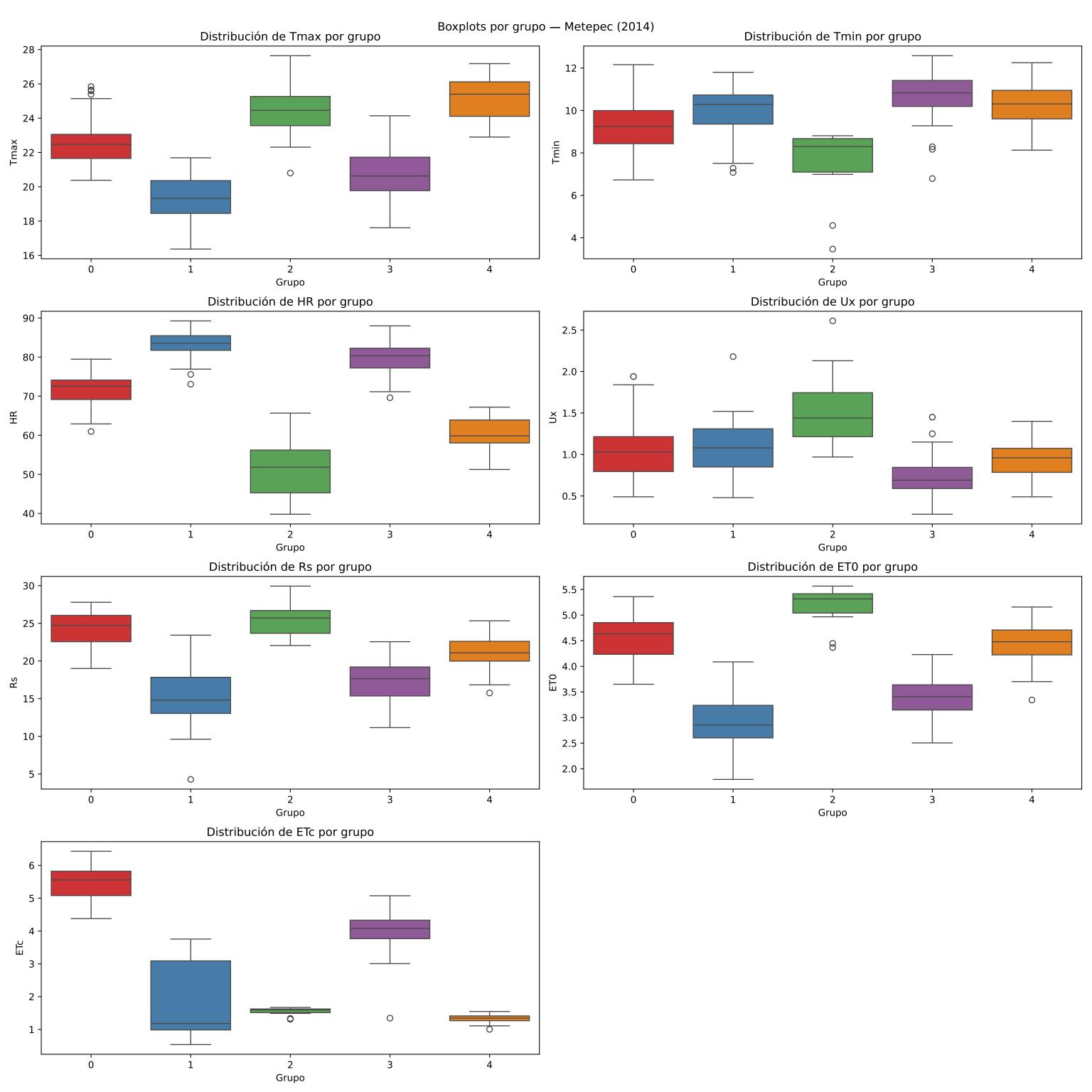












Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2014) Grupo Tmax

Días del ciclo: 170

ETc total [mm]: 572.0

ETverde total [mm]: 283.6

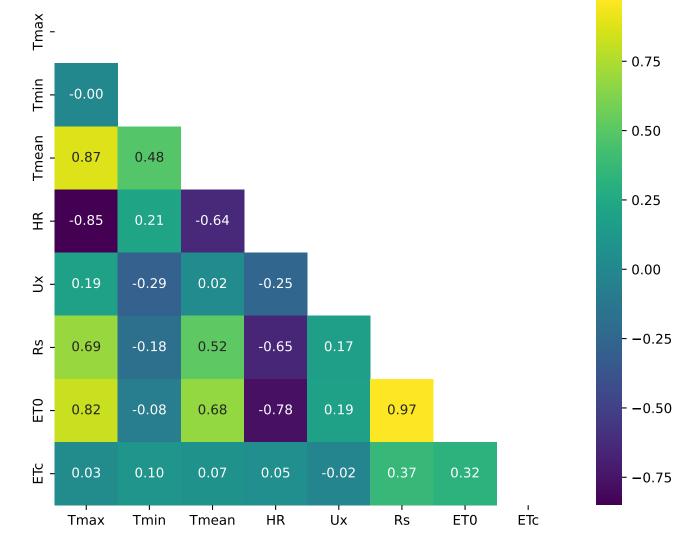
ETazul total [mm]: 288.4

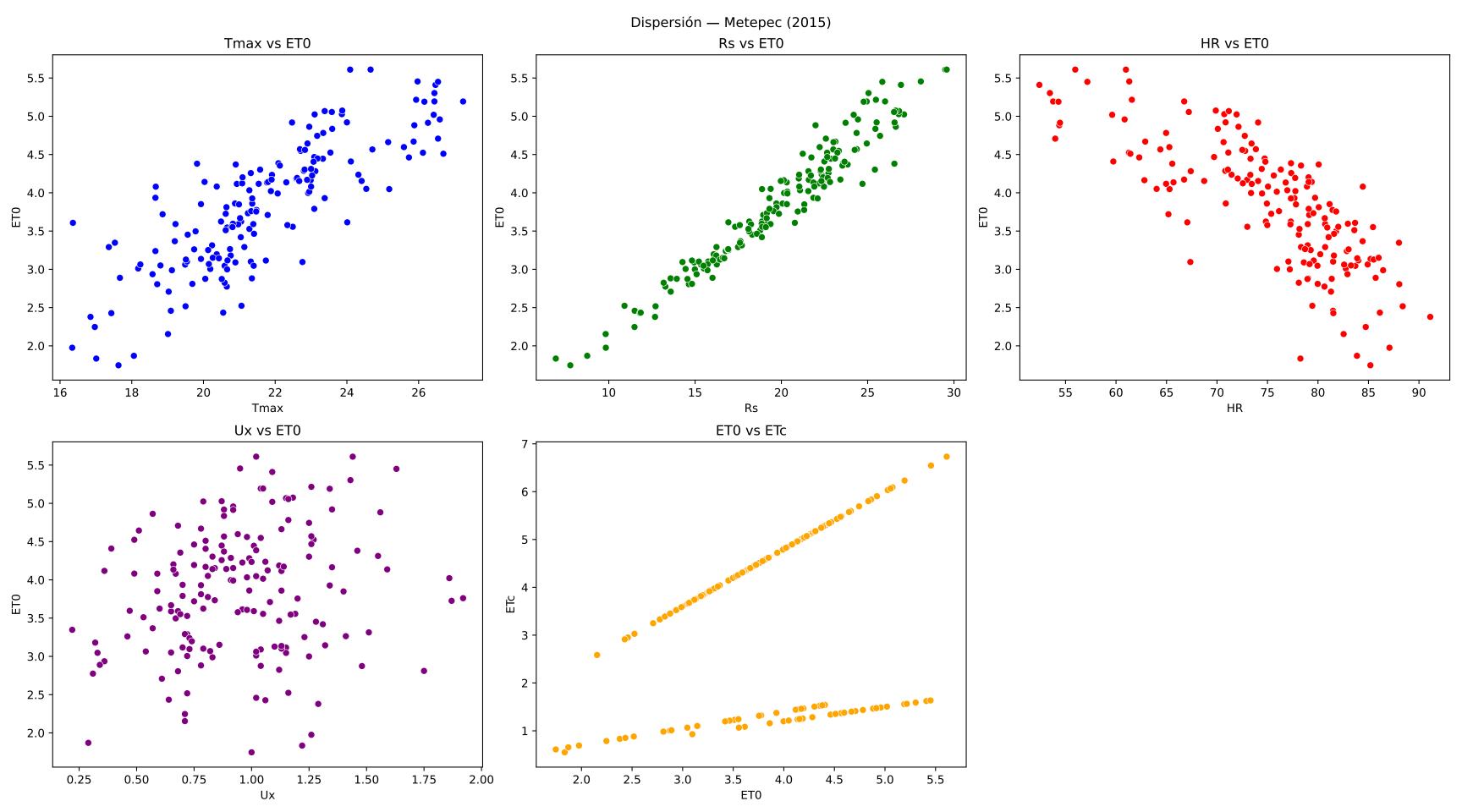
Tmax / Tmin [°C]: 27.2 / 4.4

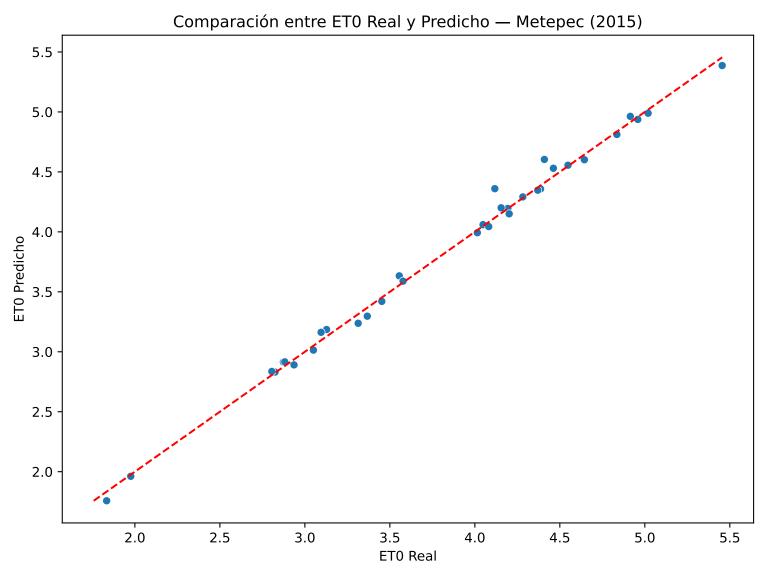
Metepec — 2015 · Resultados y métricas

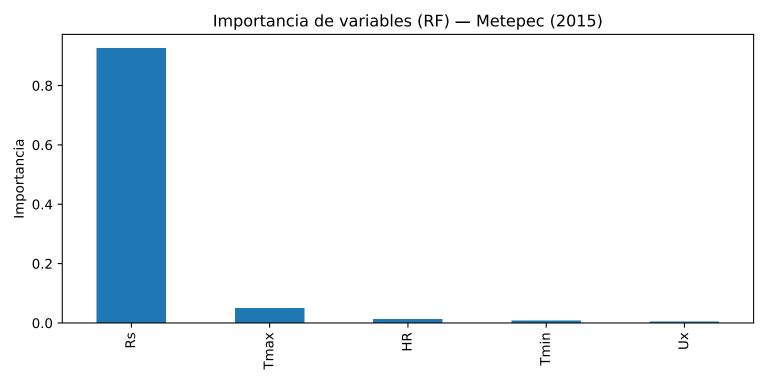
```
[Metepec 2015] Regresión Lineal ETO -R^2: 0.9937 MSE: 0.0047
[Metepec 2015] Random Forest ET0 - R^2: 0.9704 MSE: 0.0221
Importancias: {'Tmax': 0.049432962687636556, 'Tmin': 0.007371883776954275, 'HR': 0.013066577844699669, 'Ux':
0.00416896077525623, 'Rs': 0.9259596149154532}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        18.132143
                    9.786429 84.668571 0.825000
                                                  11.384286 2.317445 1.396382
        25.234815
                  10.313333 61.999630 1.023704
                                                  22.592222 4.639333 1.399959
                   11.008793 80.709483
                                        0.760517
                                                  17.656207
        20.273448
                                                            3.419032 3.685793
        23.250789
                   10.004474 71.566053 0.983158
                                                  24.183158 4.623273 5.547928
        21.127879
                    8.396364 75.763939 1.237273 19.677879 3.667208 2.730080
```

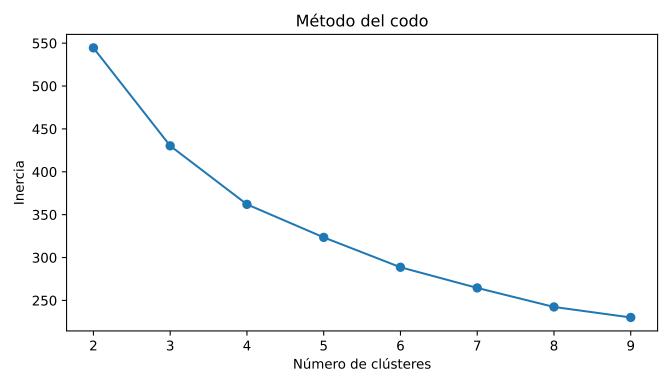
Matriz de Correlación entre Variables Meteorológicas





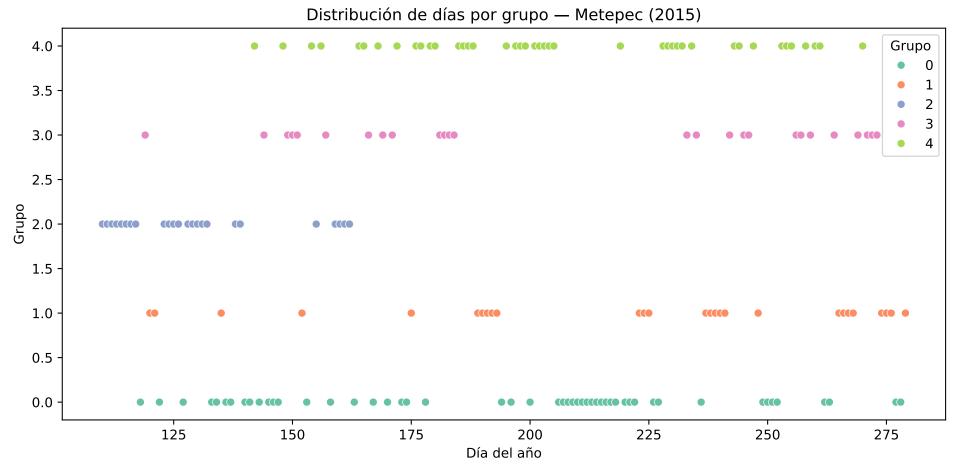


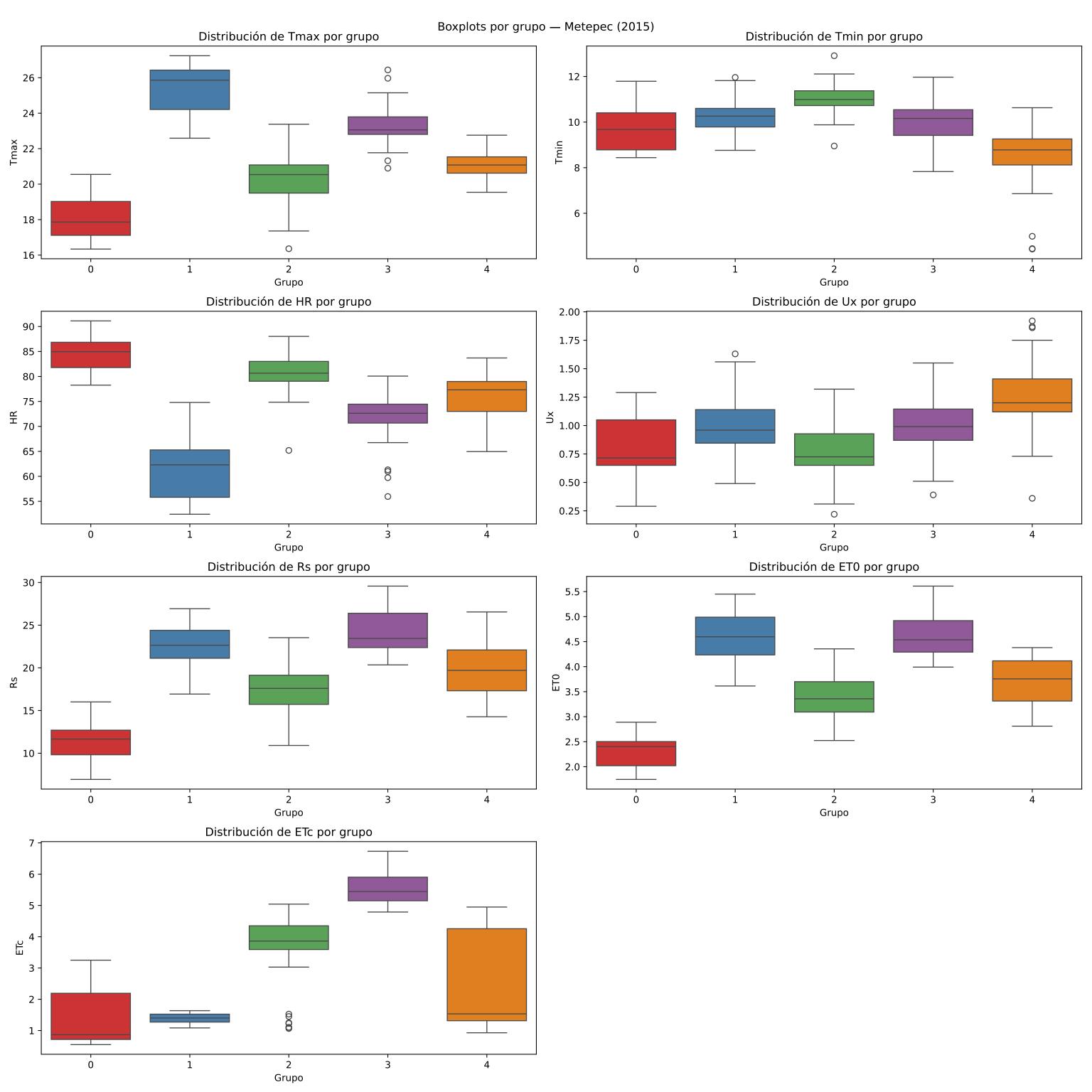




Clasificación de días climáticos — Metepec (2015) Grupo $\mathsf{R}\mathsf{s}$

Tmax





Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2015) Grupo $\mathsf{R}\mathsf{s}$ Tmax

Días del ciclo: 170

ETc total [mm]: 578.9

ETverde total [mm]: 334.6

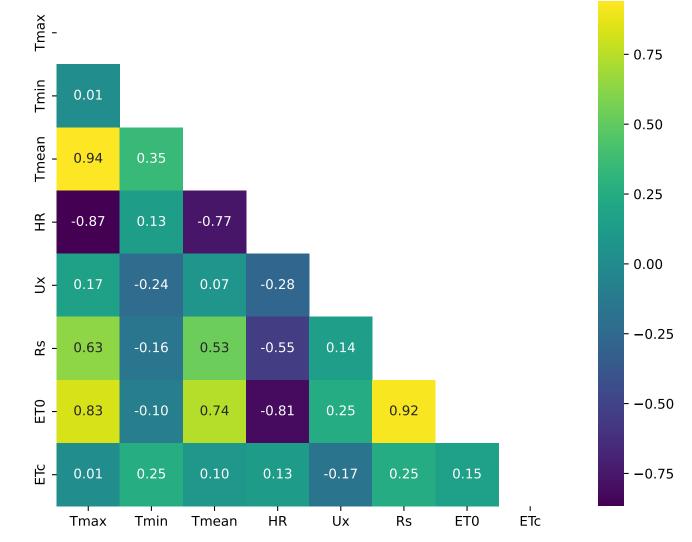
ETazul total [mm]: 244.4

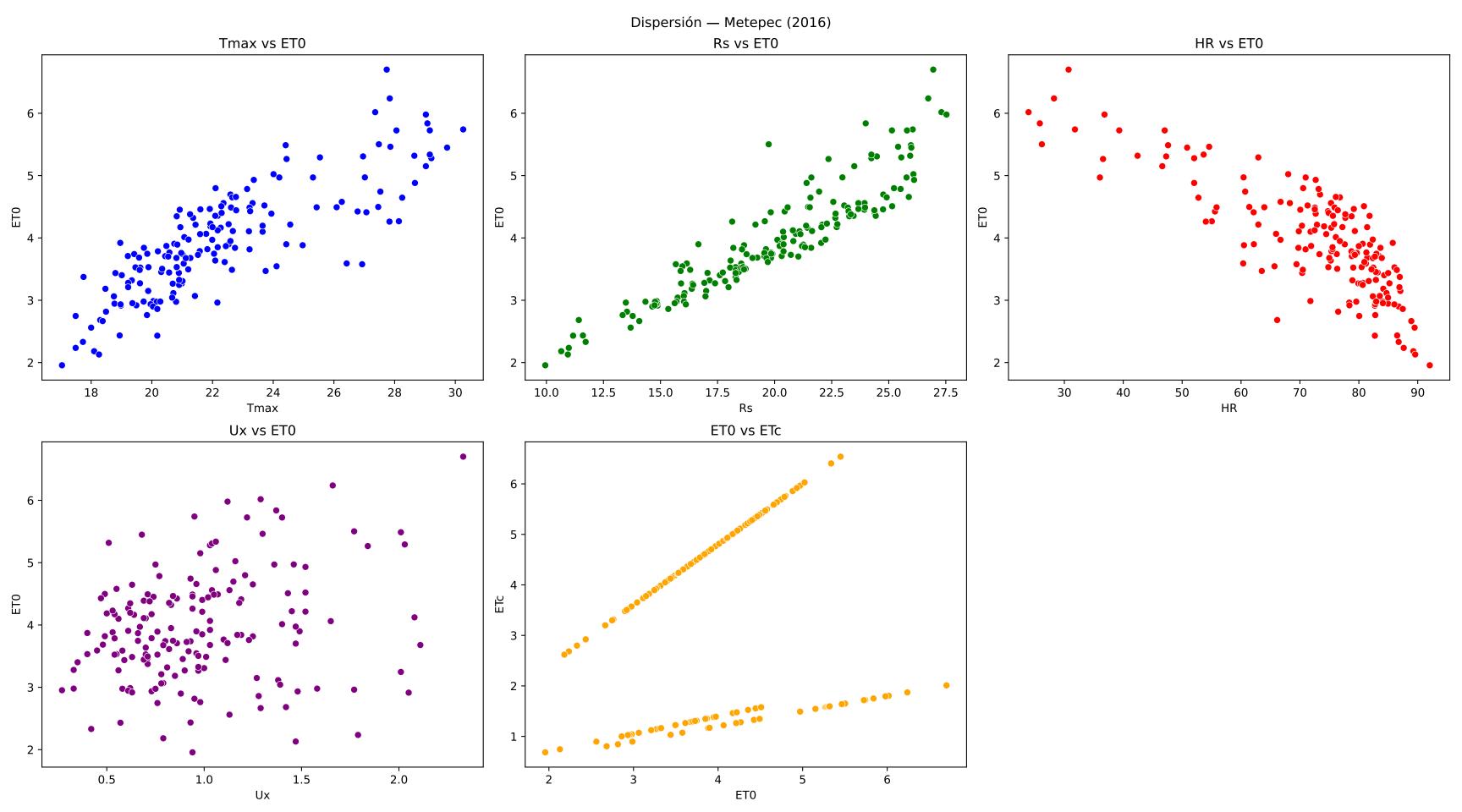
Tmax / Tmin [°C]: 30.3 / 7.3

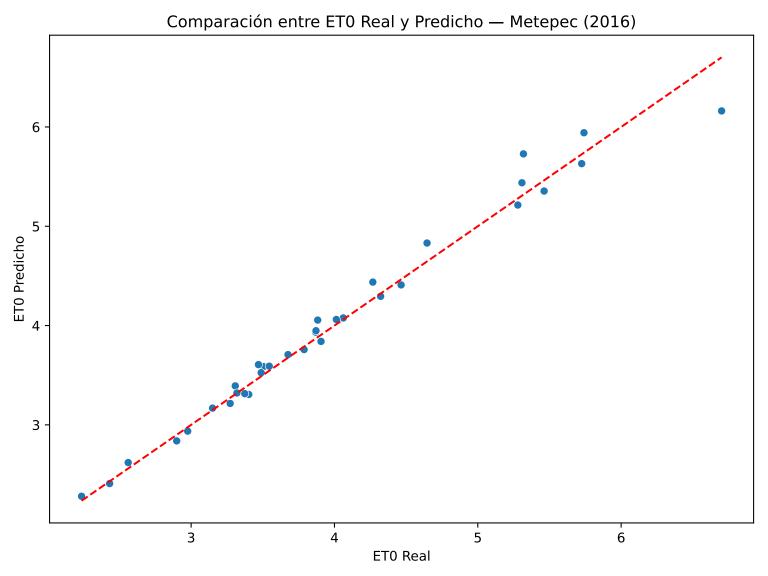
Metepec — 2016 · Resultados y métricas

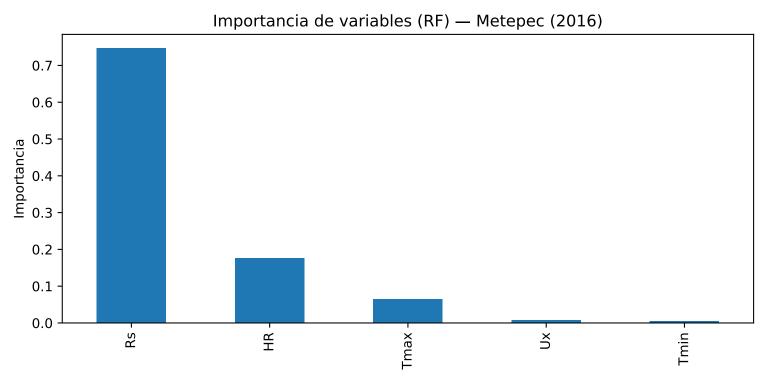
```
[Metepec 2016] Regresión Lineal ETO -R^2: 0.9796 MSE: 0.0212
[Metepec 2016] Random Forest ET0 - R^2: 0.9770 MSE: 0.0239
Importancias: {'Tmax': 0.06405913191500237, 'Tmin': 0.004603673515321523, 'HR': 0.17620942885378657, 'Ux':
0.008095773166270161, 'Rs': 0.7470319925496193}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                 ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                        Rs
                        mean
                                  mean
                                                                mean
                                                                          mean
             mean
                                            mean
                                                       mean
cluster
0
        19.258462 10.516154 83.695000 1.230769
                                                  13.888846
                                                            2.752907 2.608992
        20.742745 11.230980 78.815490 0.744902
                                                  18.903137 3.660783 4.392939
                                        0.905000
                                                  19.692778
        22.301389
                  10.030000 74.910278
                                                            3.783207 1.263363
        24.013333 10.363333 69.338718 0.991795
                                                 22.895128 4.514647 5.417576
                  10.102222 39.778333 1.400556 24.905000 5.611315 1.683394
        27.634444
```

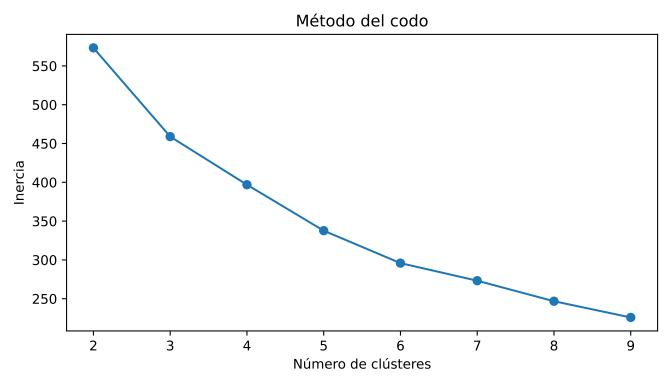
Matriz de Correlación entre Variables Meteorológicas



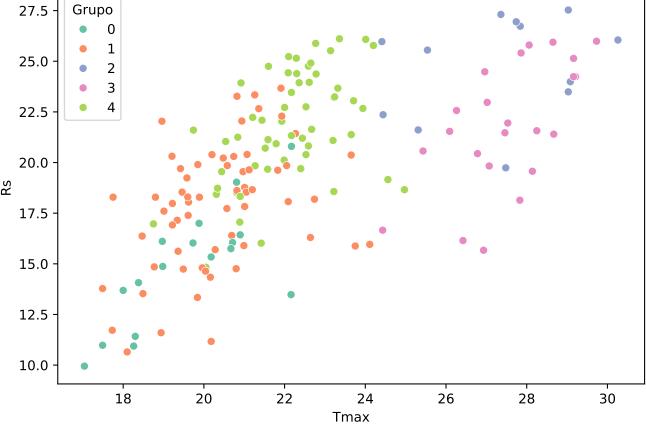




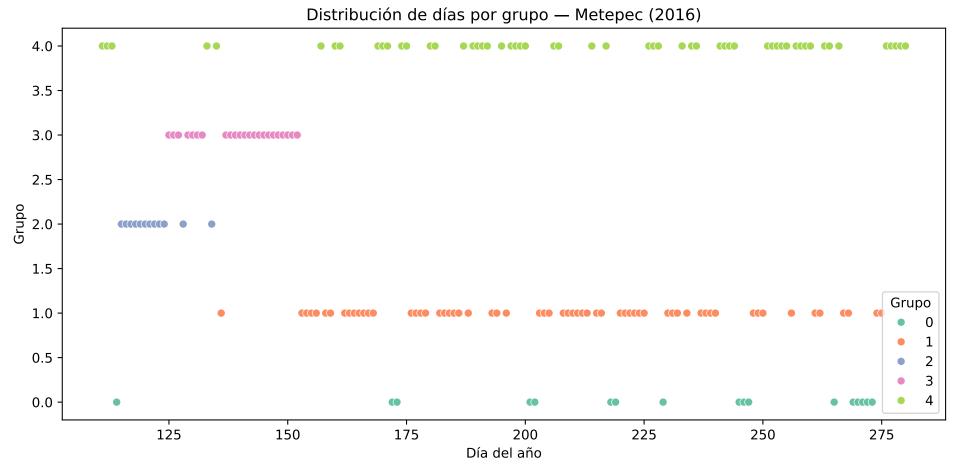


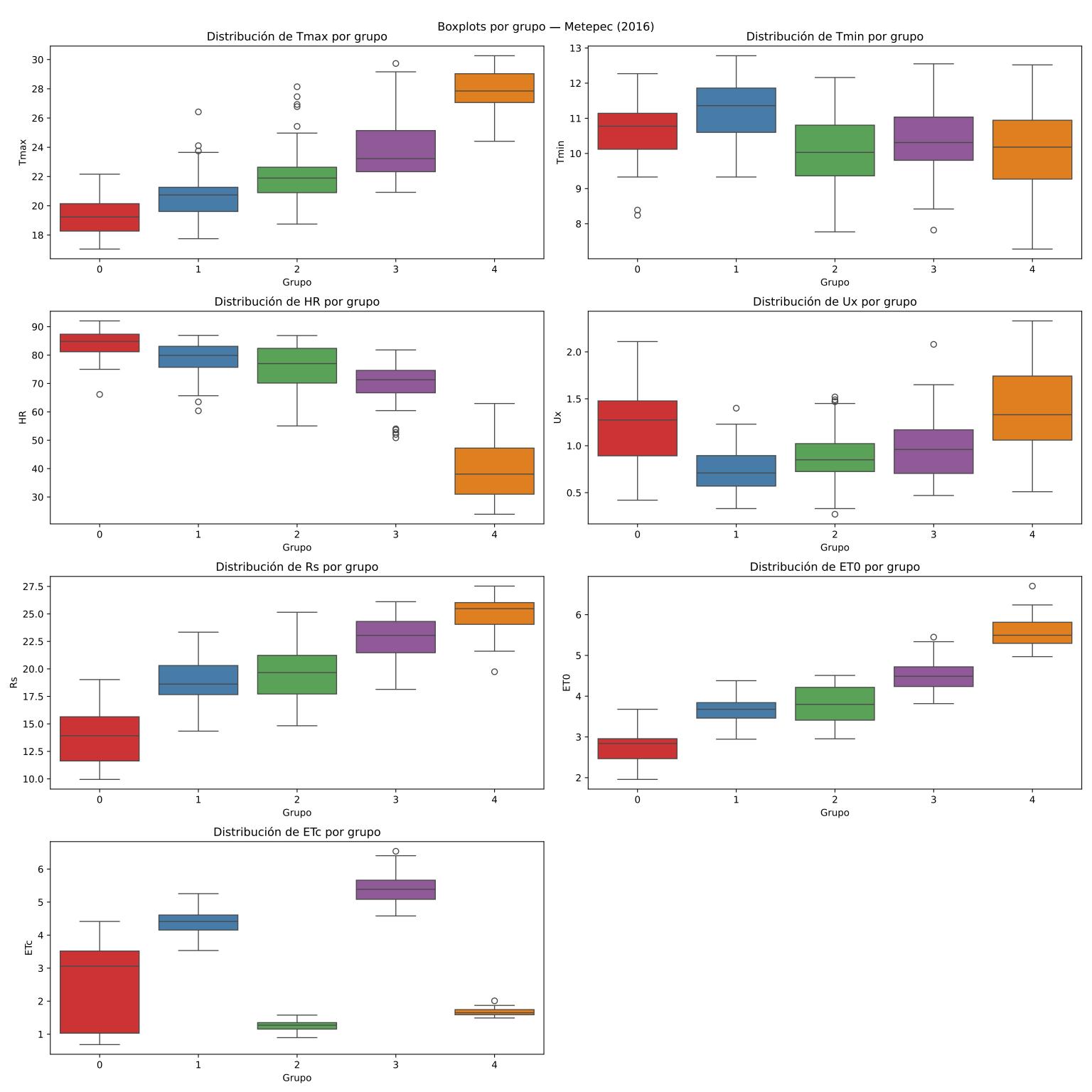


Clasificación de días climáticos — Metepec (2016)



Grupo





Clasificación de días climáticos (ETO/ETc incluidos) — Metepec (2016) 27.5 Grupo 25.0 22.5 20.0 $\mathsf{R}\mathsf{s}$ 17.5 15.0 12.5 10.0 18 20 22 26 30 24 28 Tmax

Días del ciclo: 170

ETc total [mm]: 595.6

ETverde total [mm]: 274.3

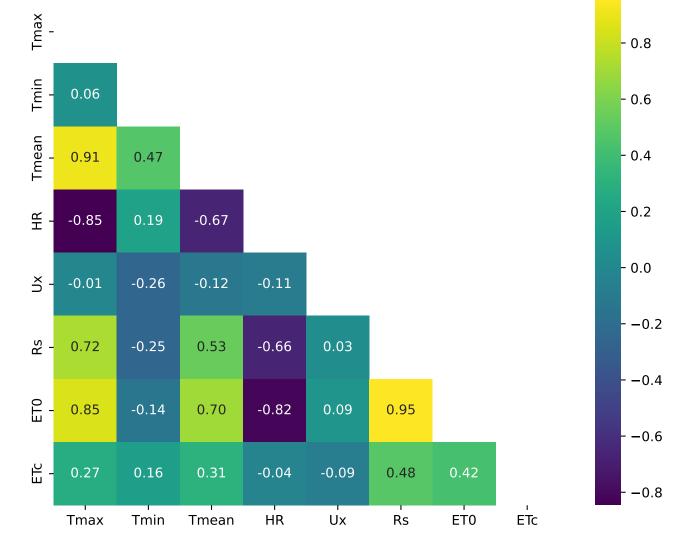
ETazul total [mm]: 321.2

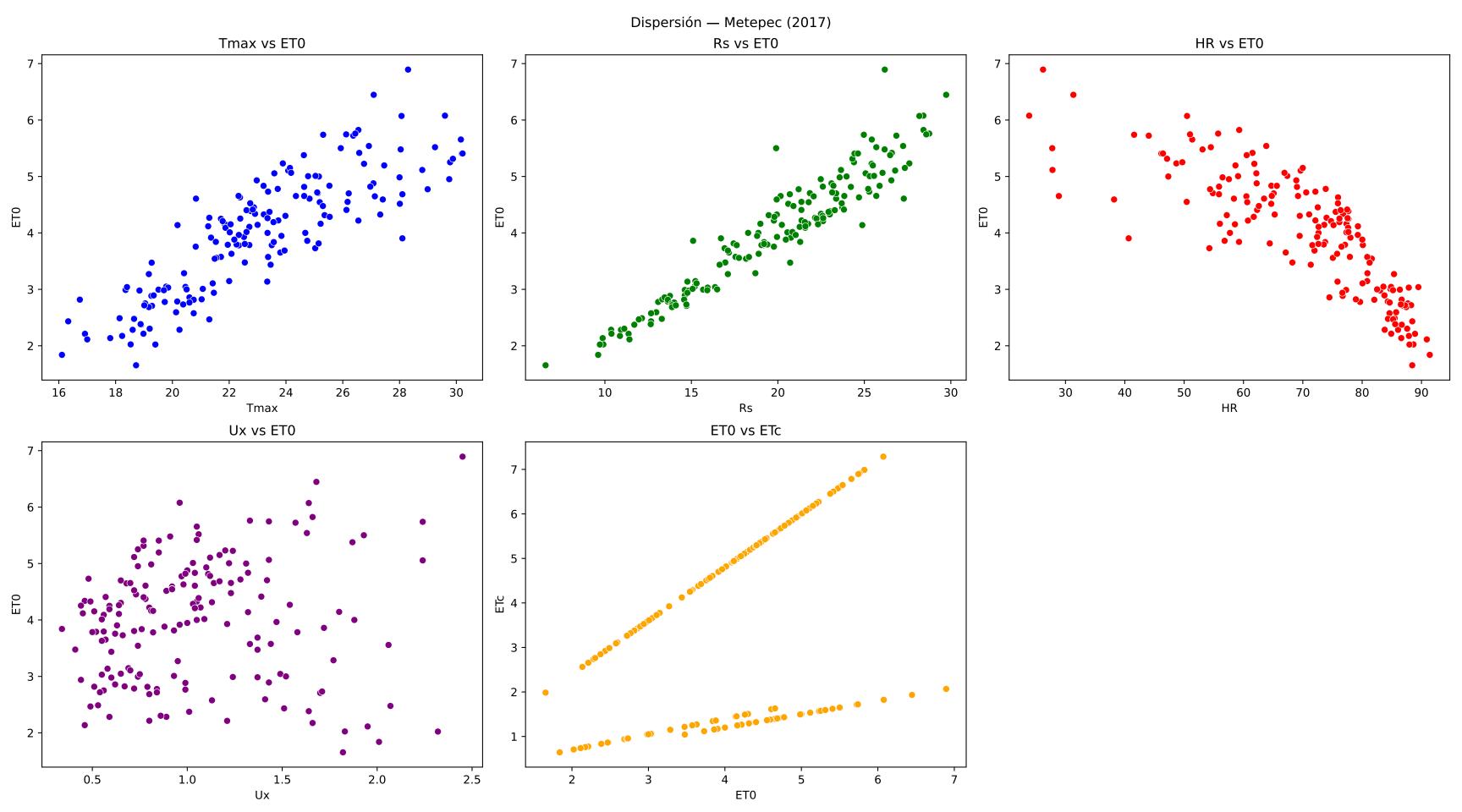
Tmax / Tmin [°C]: 30.2 / 4.7

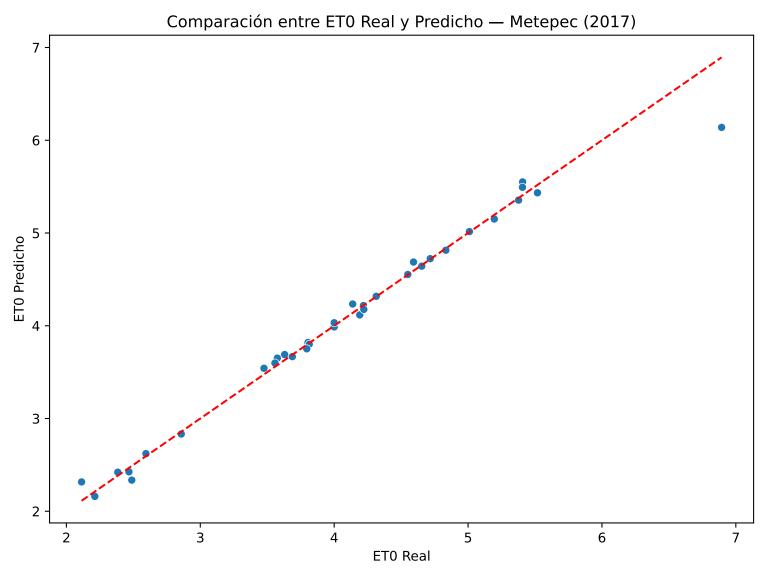
Metepec — 2017 · Resultados y métricas

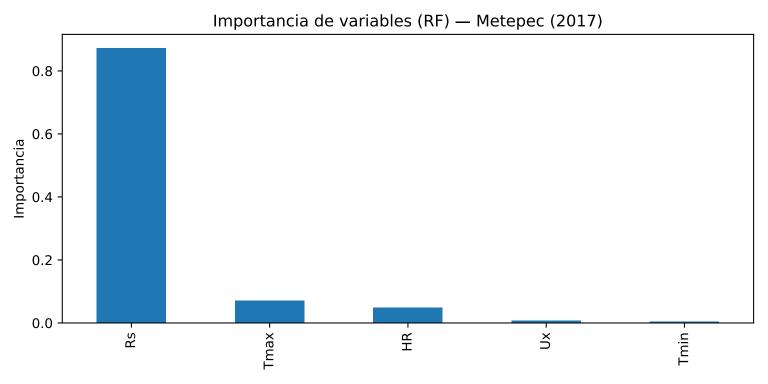
```
[Metepec 2017] Regresión Lineal ETO -R^2: 0.9818 MSE: 0.0213
[Metepec 2017] Random Forest ET0 - R^2: 0.9531 MSE: 0.0548
Importancias: {'Tmax': 0.07021575279848837, 'Tmin': 0.0031866074235837806, 'HR': 0.047819956320413935, 'Ux':
0.0064385035923857385, 'Rs': 0.8723391798651282}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                 ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                        Rs
                        mean
                                  mean
                                                       mean
                                                                mean
                                                                          mean
             mean
                                            mean
cluster
0
        26.049375 10.388125 61.837500 1.187500
                                                  25.115313 5.114077 6.136893
        20.036923
                  11.105385 82.924872
                                        0.780000
                                                  14.267179
                                                            2.862896 2.679514
        26.005556
                   9.433056 50.198611 1.078611
                                                  22.564722 4.813159 1.479638
                  10.639778 74.556222 0.881333
                                                  20.845556
                                                           4.080380 4.815958
        22.809111
                    9.403333 85.906111 1.725000 13.359444 2.540501 1.372731
        18.930556
```

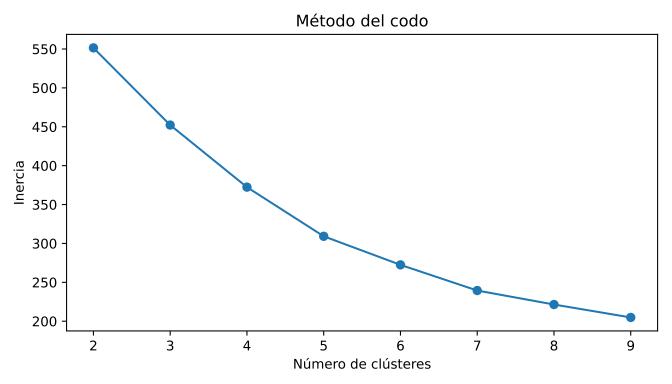
Matriz de Correlación entre Variables Meteorológicas



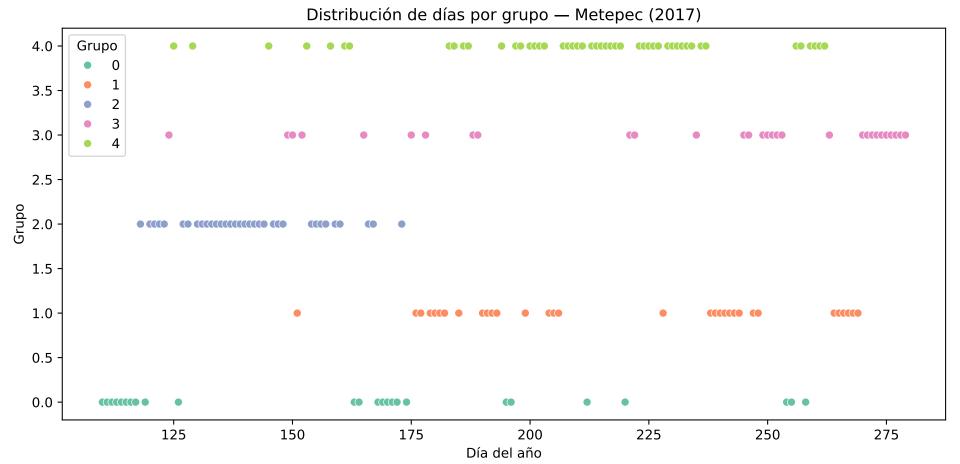


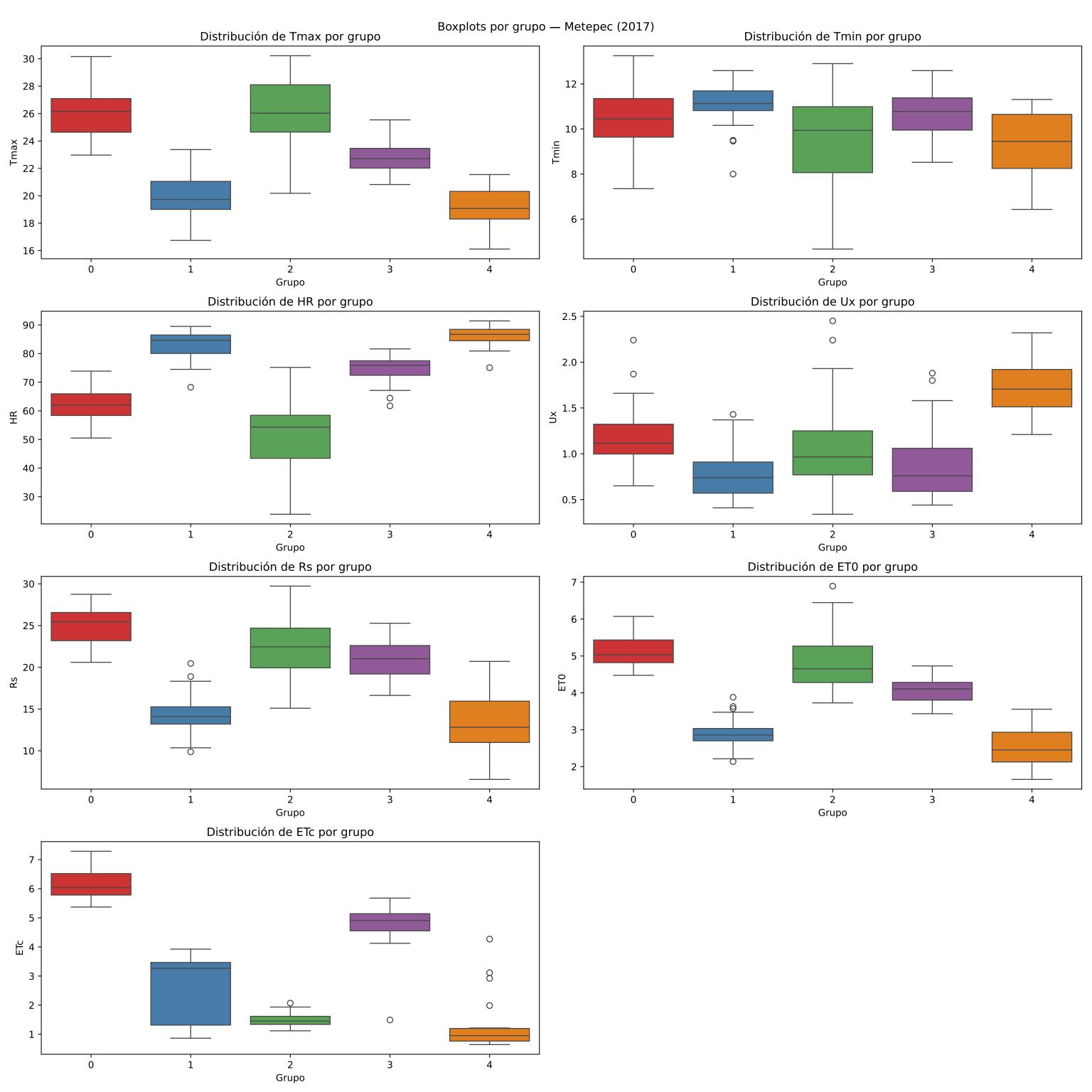






Clasificación de días climáticos — Metepec (2017) Grupo Rs Tmax





Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2017) Grupo $\mathsf{R}\mathsf{s}$ Tmax

Días del ciclo: 170

ETc total [mm]: 618.9

ETverde total [mm]: 303.8

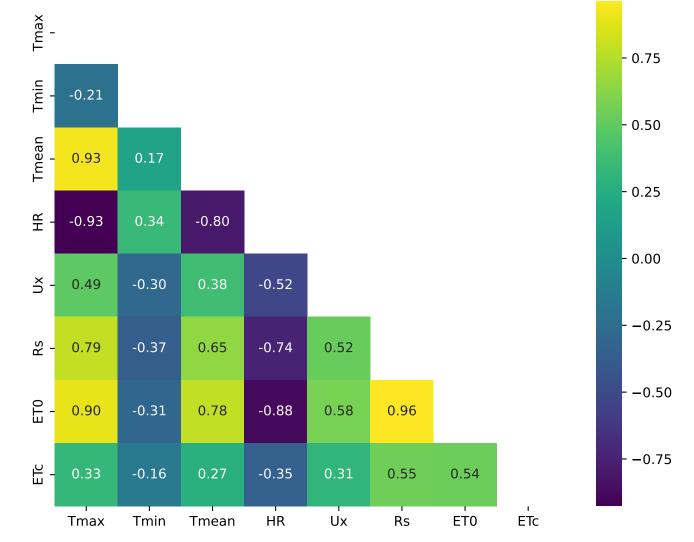
ETazul total [mm]: 315.0

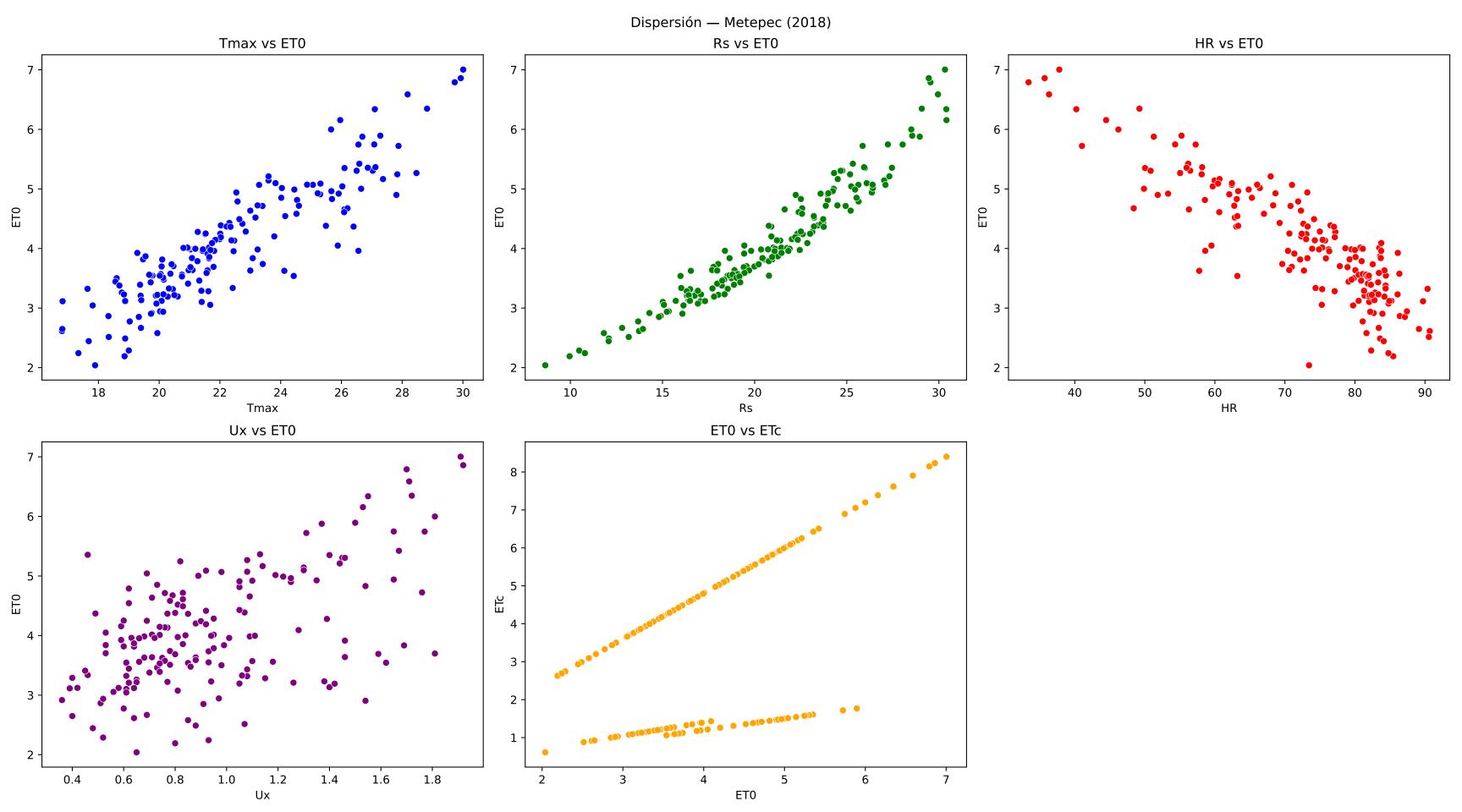
Tmax / Tmin [°C]: 30.0 / 7.2

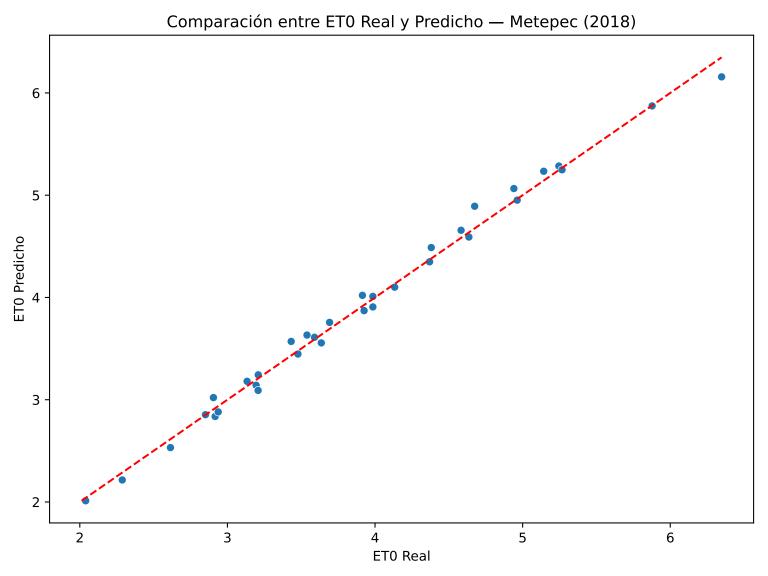
Metepec — 2018 · Resultados y métricas

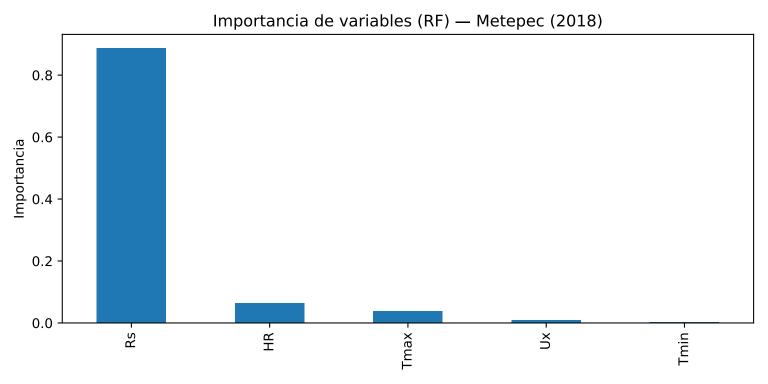
```
[Metepec 2018] Regresión Lineal ETO -R^2: 0.9927 MSE: 0.0072
[Metepec 2018] Random Forest ET0 - R^2: 0.9890 MSE: 0.0109
Importancias: {'Tmax': 0.03719420980625646, 'Tmin': 0.0027027820293749763, 'HR': 0.06435240896832241, 'Ux':
0.008645711037414346, 'Rs': 0.8871048881586319}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        20.973509 10.265789 79.112456 0.962982
                                                  19.109649
                                                            3.621473 2.862903
        23.339318
                    9.764318 69.645000 0.972500
                                                  23.763182 4.579670 5.495605
2
        26.195909
                    9.751364
                             56.161364 1.037727
                                                  23.741818
                                                            4.928875 1.478662
        27.692500
                    9.148333 45.203333 1.692500
                                                  28.933333 6.239769 7.487723
        19.109714
                  10.939714 83.810286 0.638000 15.099429 2.948655 2.614361
```

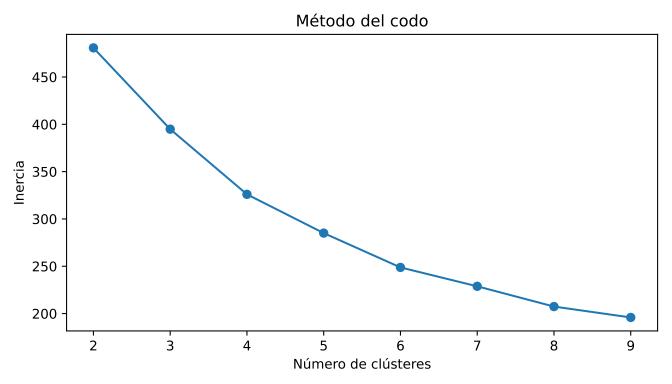
Matriz de Correlación entre Variables Meteorológicas

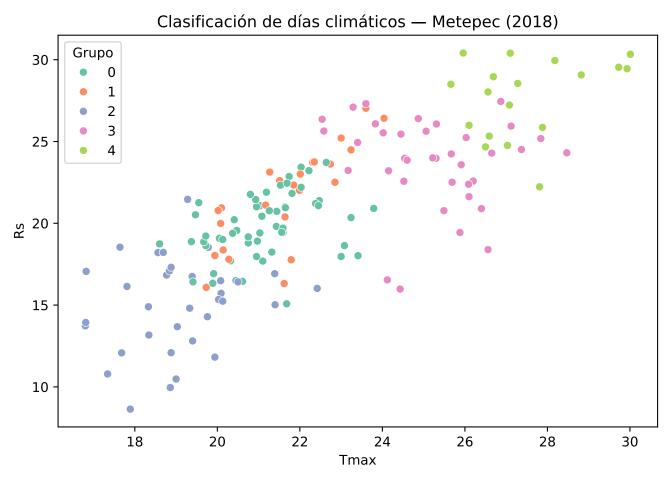


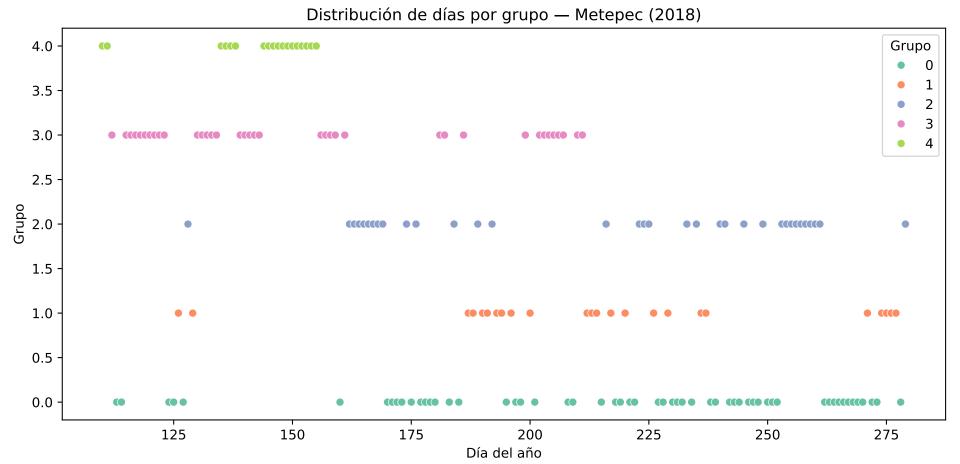


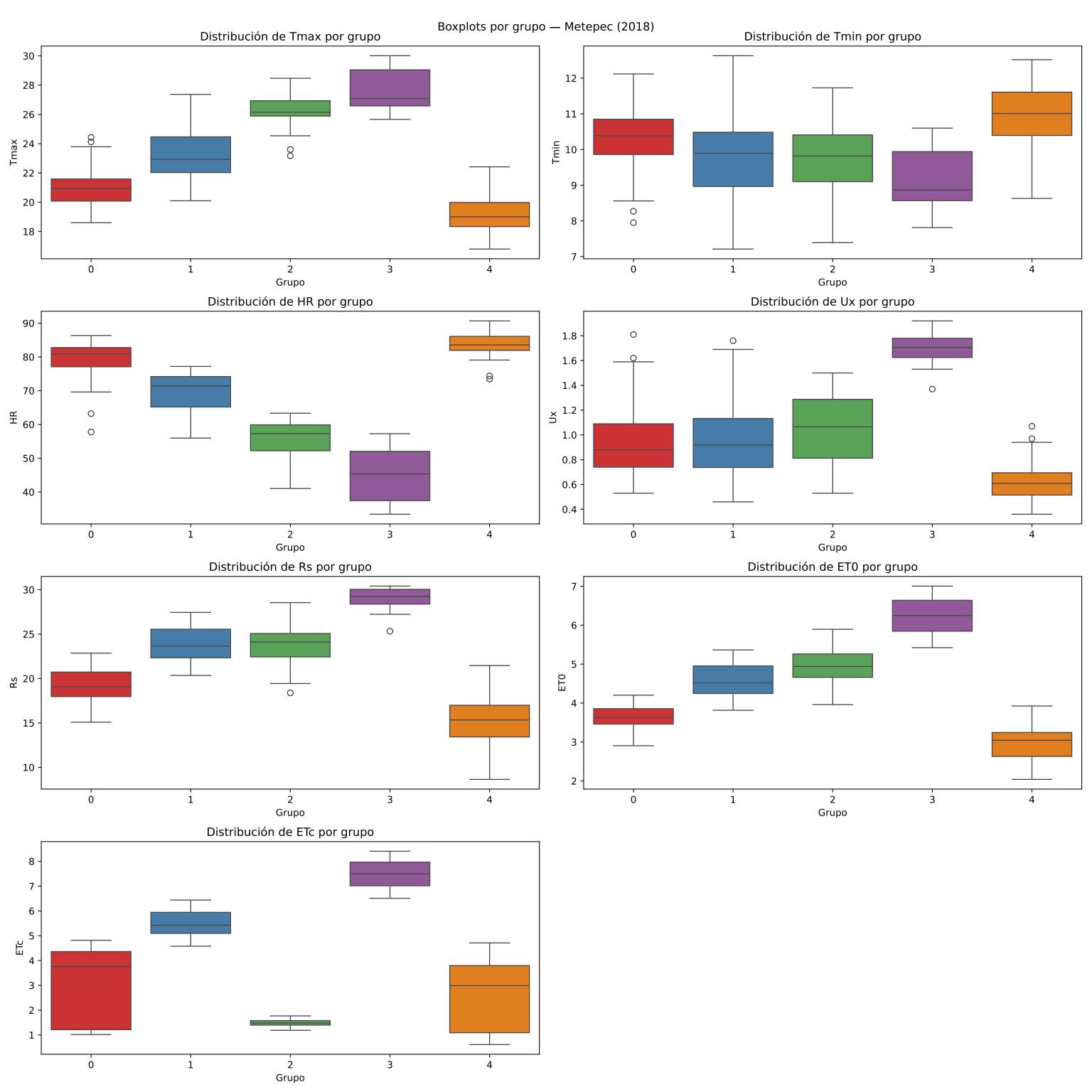












Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2018) Grupo S 20 15 -Tmax

Días del ciclo: 170

ETc total [mm]: 631.8

ETverde total [mm]: 265.0

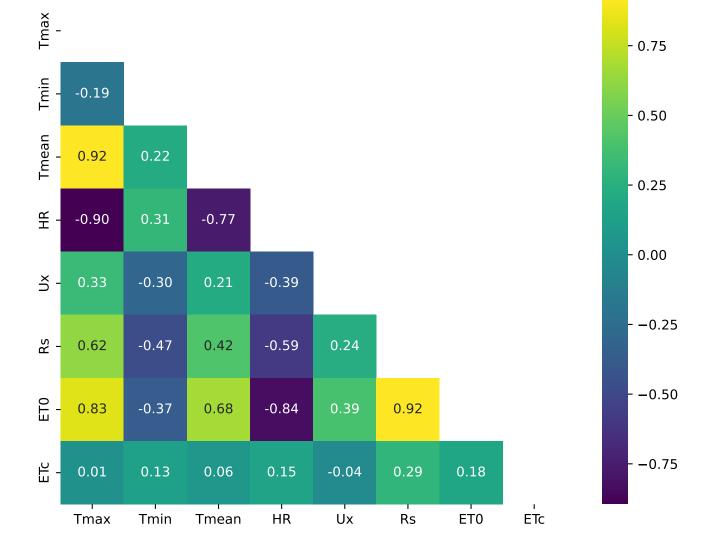
ETazul total [mm]: 366.8

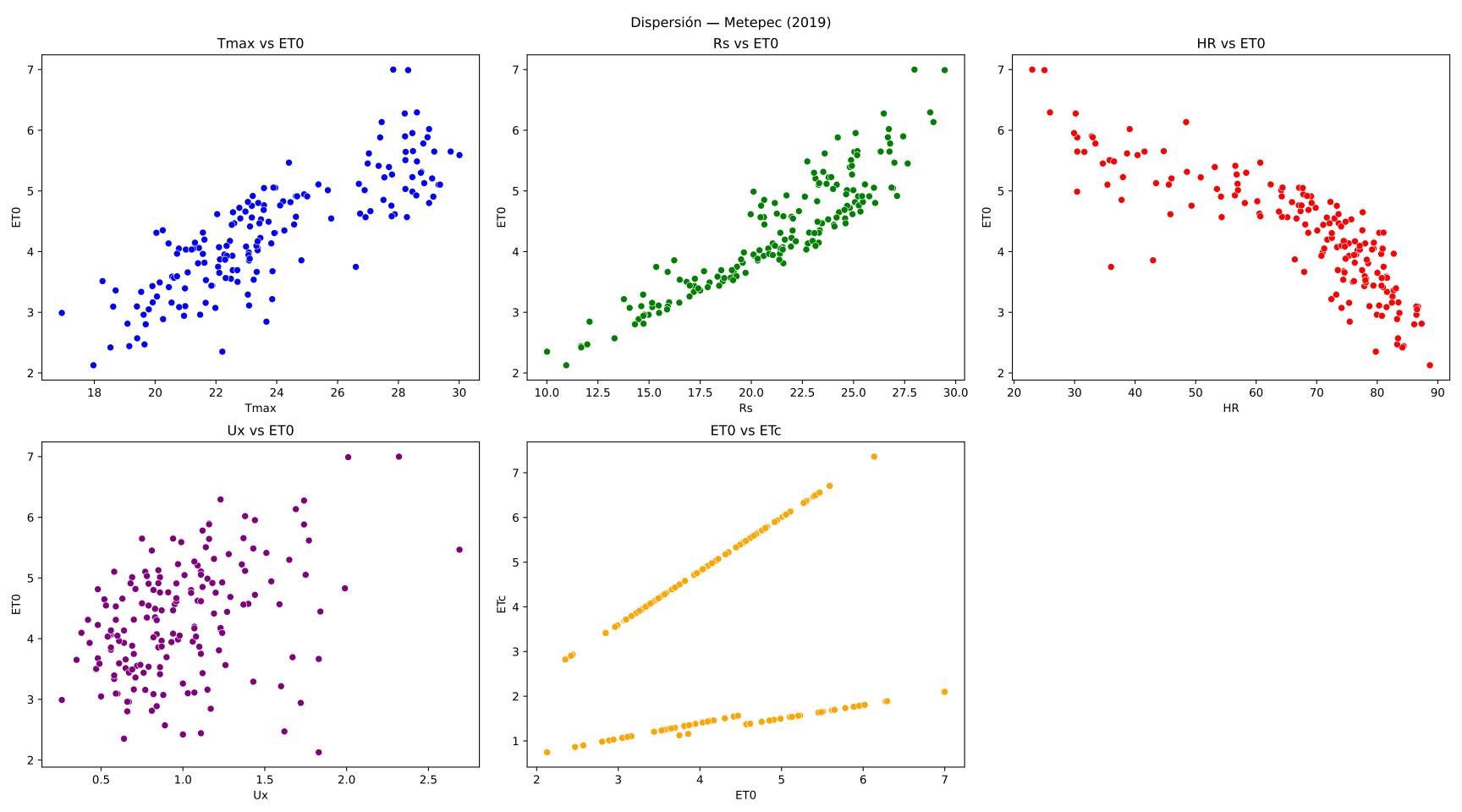
Tmax / Tmin [°C]: 30.0 / 6.4

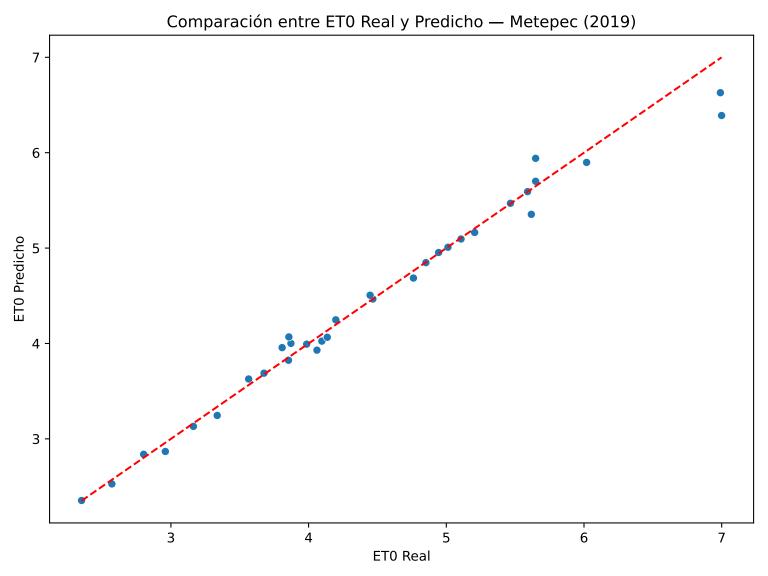
Metepec — 2019 · Resultados y métricas

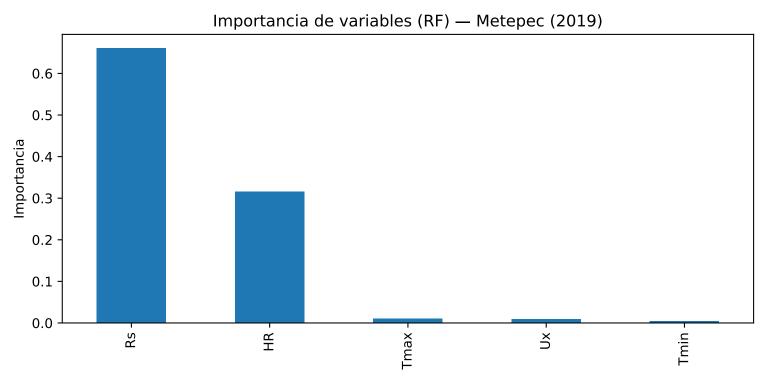
```
[Metepec 2019] Regresión Lineal ETO -R^2: 0.9807 MSE: 0.0244
[Metepec 2019] Random Forest ET0 - R^2: 0.9498 MSE: 0.0636
Importancias: {'Tmax': 0.009686175982273282, 'Tmin': 0.004419737017131211, 'HR': 0.31574721176911125, 'Ux':
0.009345923565898251, 'Rs': 0.6608009516655861}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        22.659565
                    9.718696 73.074348 0.902609
                                                  20.758696 3.920921 1.355790
        22.527027
                  10.520811 74.529189 0.718378
                                                  22.291351 4.264371 5.117246
                   10.008108 61.521081 1.236216
                                                  24.327027
        25.844324
                                                            4.969214
                                                                      5.963057
        28.367241
                   9.680000 37.321724 1.237241 24.609655
                                                            5.558960 1.667688
        20.765000 11.297727 80.530455 0.913182 15.575000 3.144381 3.233664
```

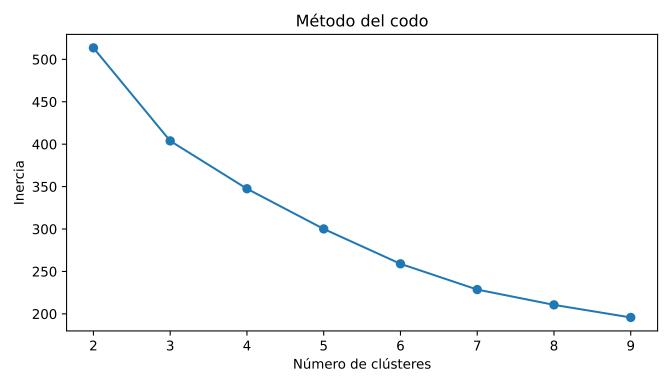
Matriz de Correlación entre Variables Meteorológicas



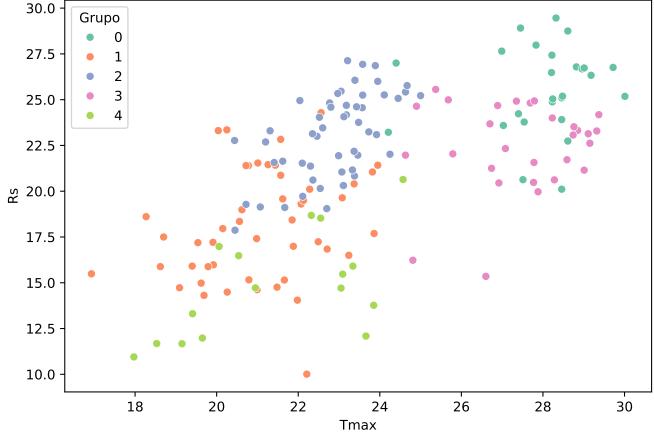


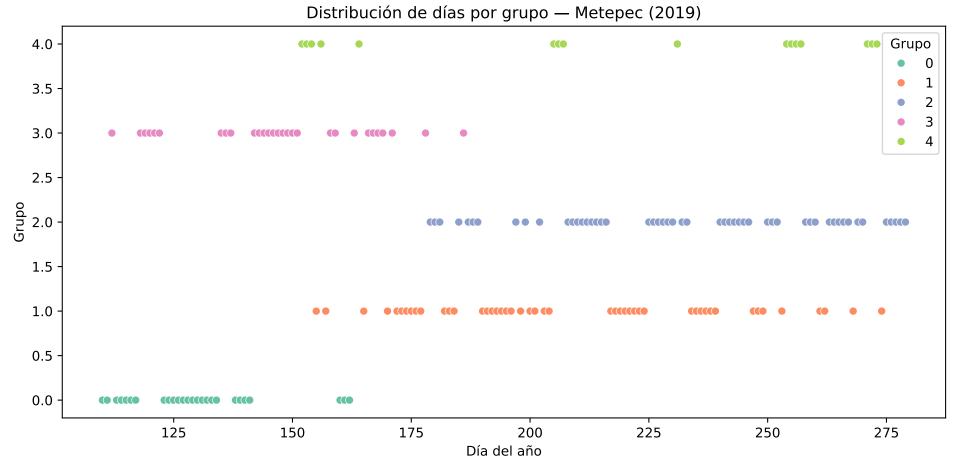


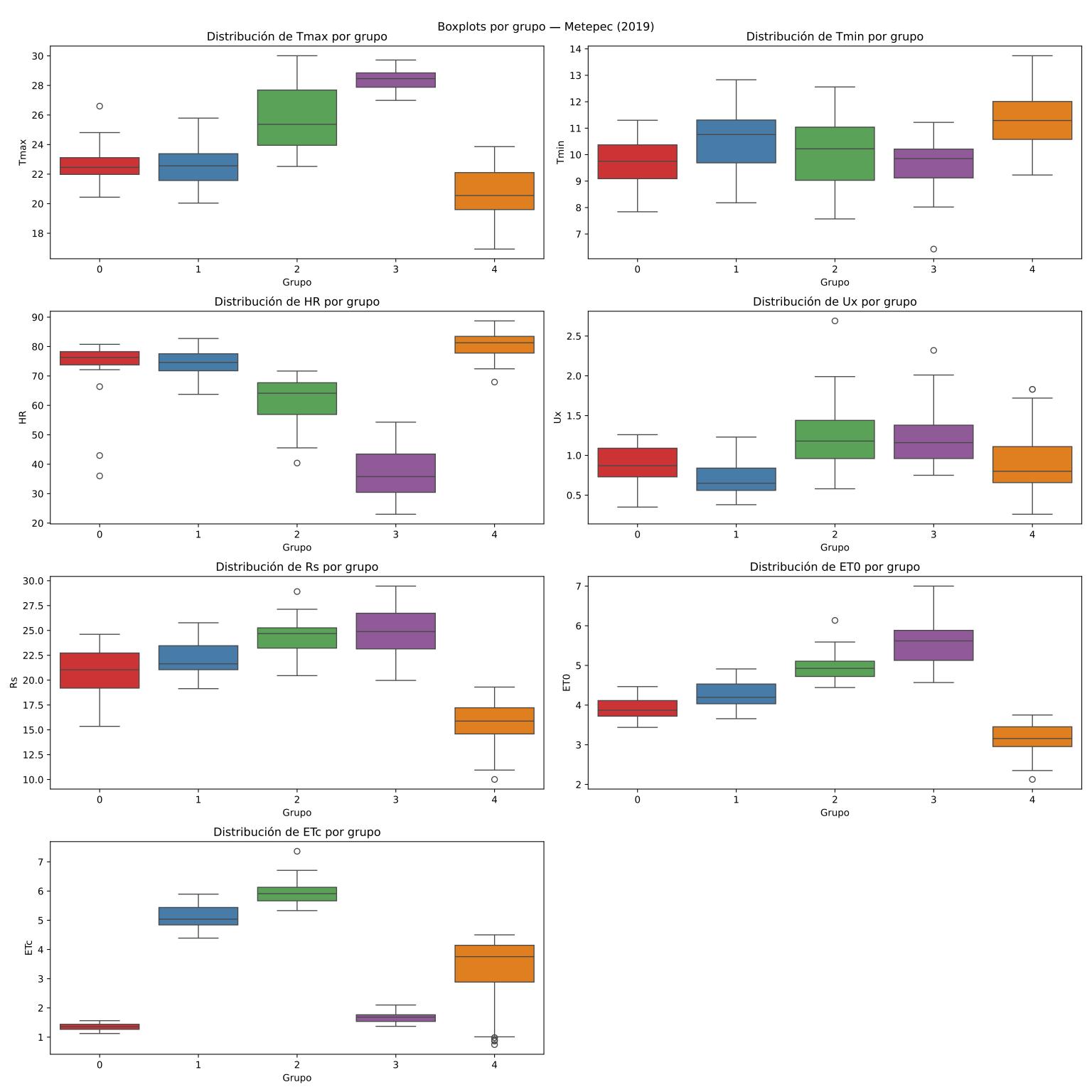


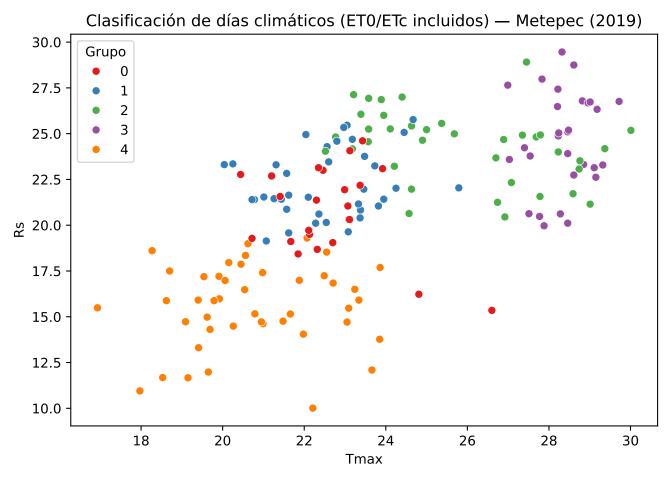


Clasificación de días climáticos — Metepec (2019)









Días del ciclo: 170

ETc total [mm]: 634.8

ETverde total [mm]: 271.7

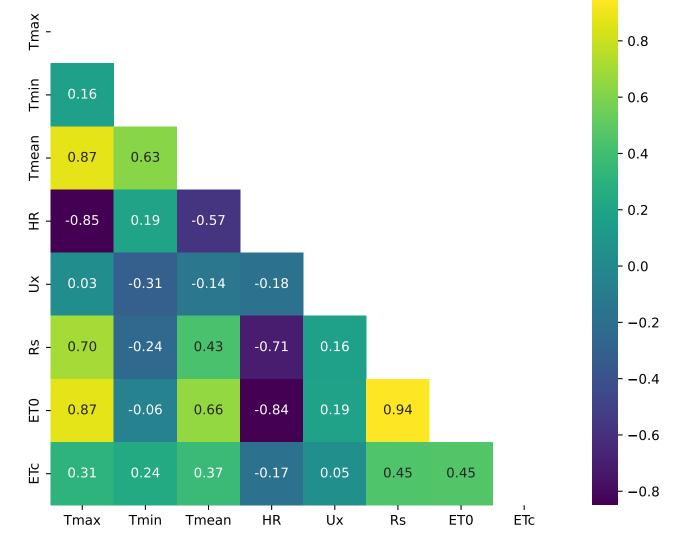
ETazul total [mm]: 363.0

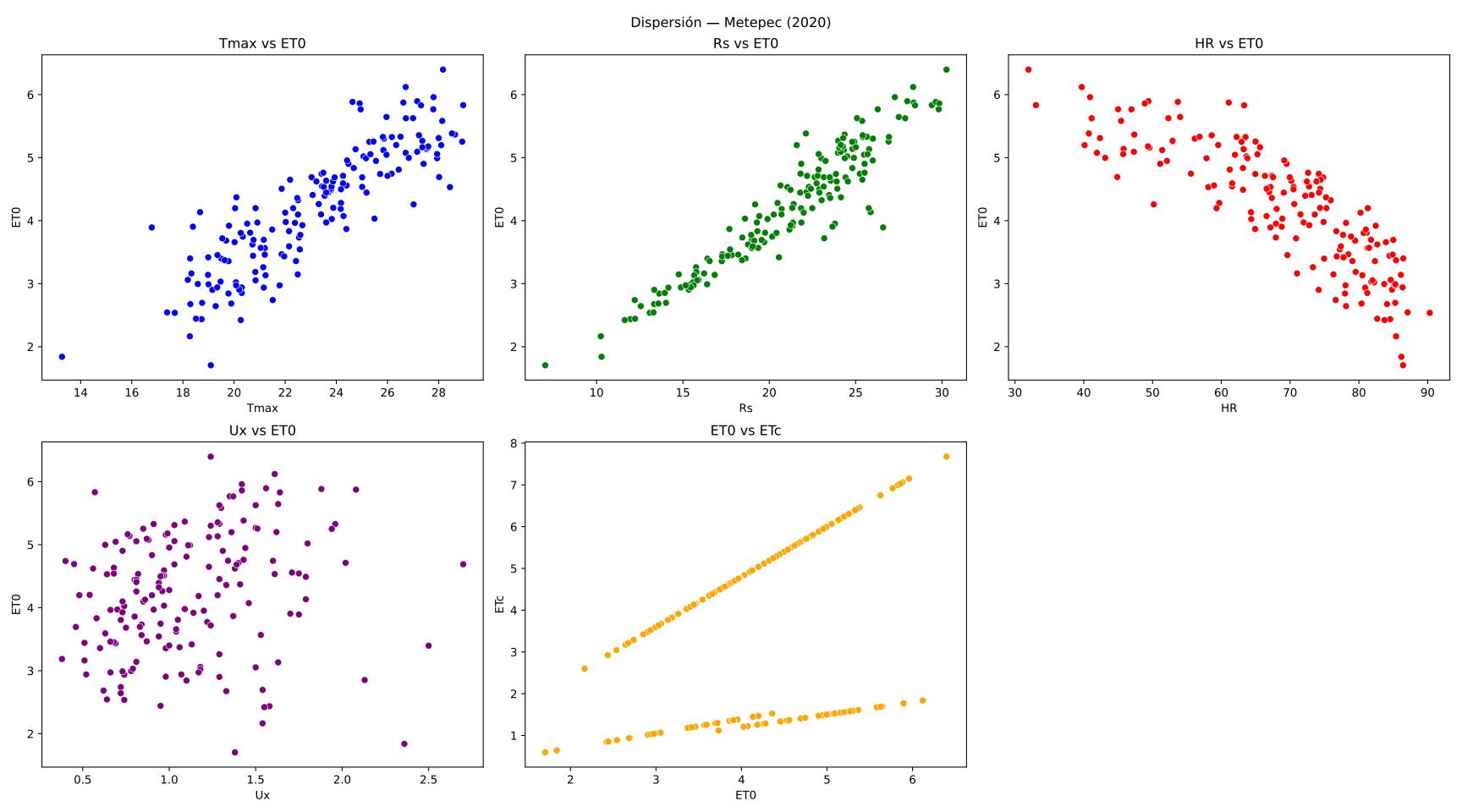
Tmax / Tmin [°C]: 29.0 / 0.1

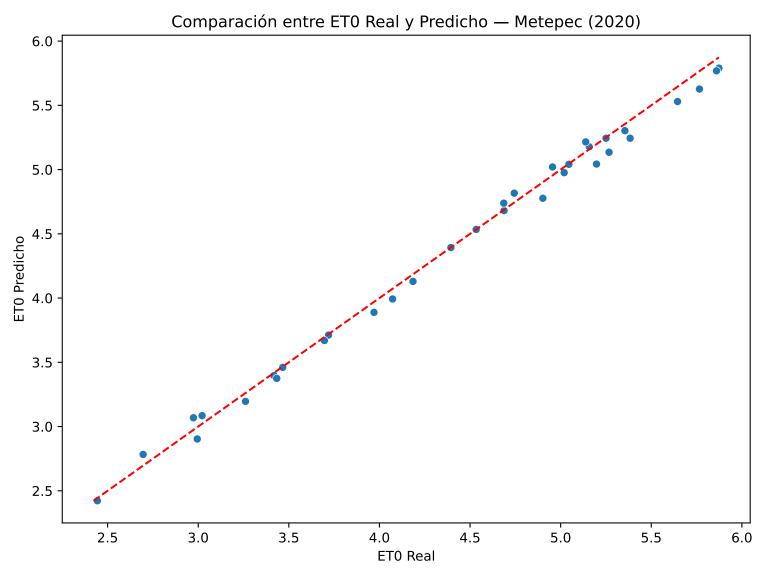
Metepec — 2020 · Resultados y métricas

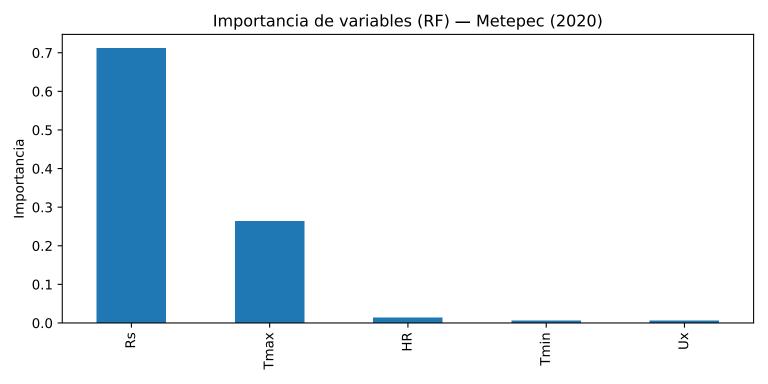
```
[Metepec 2020] Regresión Lineal ETO -R^2: 0.9938 MSE: 0.0059
[Metepec 2020] Random Forest ET0 - R^2: 0.9655 MSE: 0.0330
Importancias: {'Tmax': 0.26324194950197705, 'Tmin': 0.006024925967681463, 'HR': 0.013500720162560848, 'Ux':
0.005273350109443972, 'Rs': 0.7119590542583367}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        26.247200
                    9.675600 53.786000 1.515200
                                                  25.932800
                                                            5.400337
                                                                      6.480404
        20.186897
                   10.707586 81.037586
                                        0.987241
                                                  16.111379
                                                            3.151534
                                                                      2.737168
                             53.020000 1.180968
                                                  23.403871
        26.390968
                    9.801290
                                                            4.963167 1.495982
        18.273750
                    3.155000 70.290000 1.556250
                                                  22.463750
                                                            3.632351 1.271323
        23.667917
                  10.714583 71.241458 0.952917 22.831458 4.469469 5.363362
```

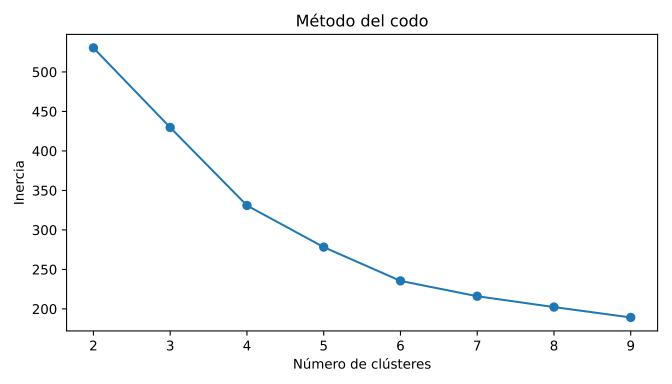
Matriz de Correlación entre Variables Meteorológicas



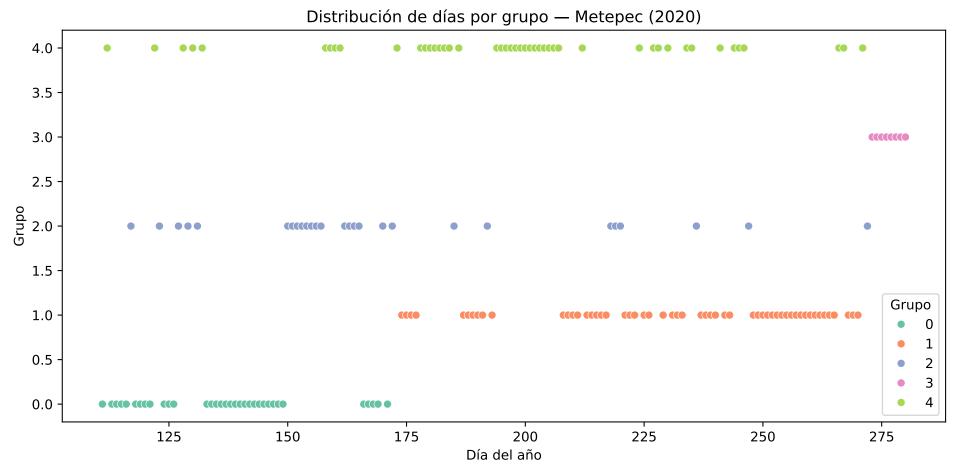


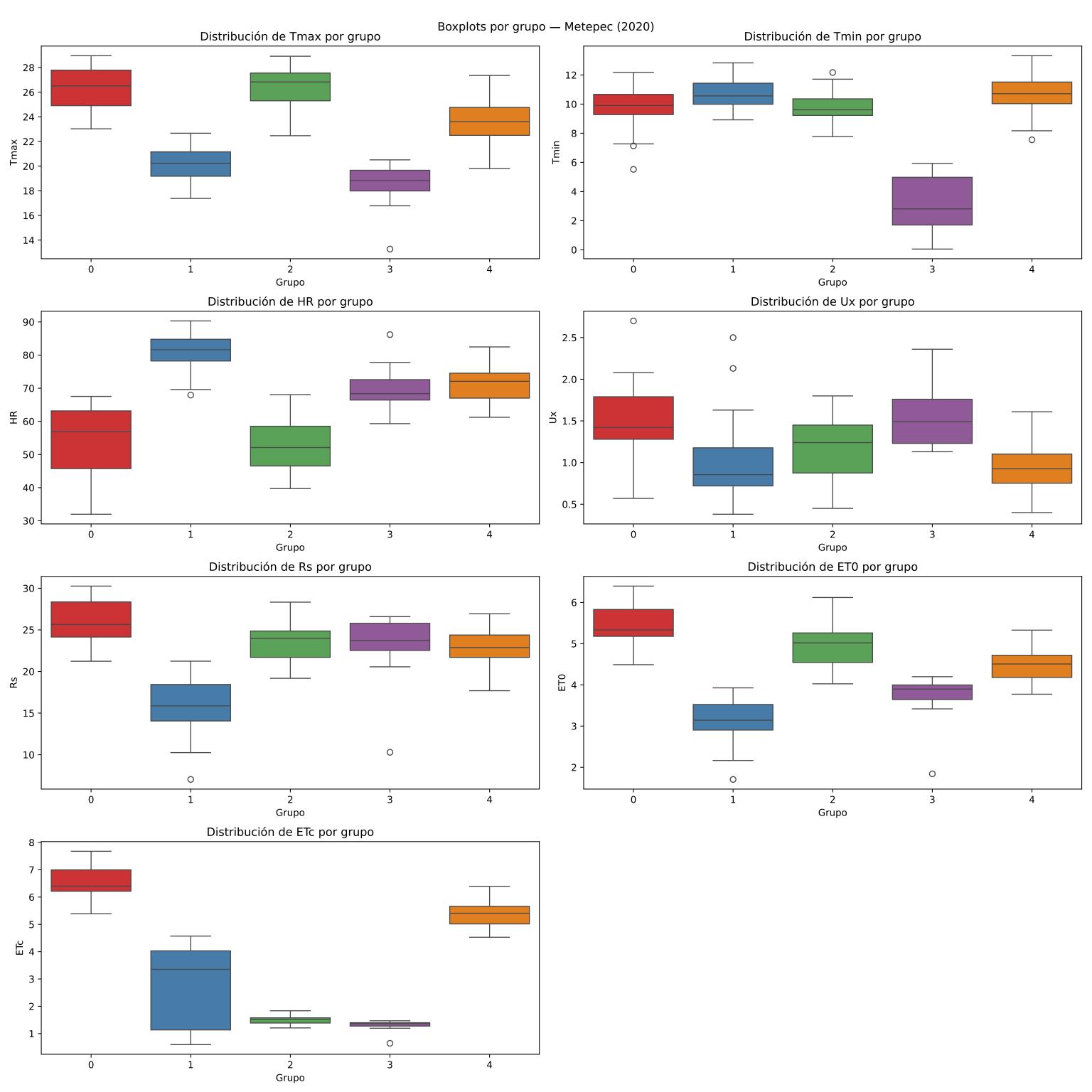






Clasificación de días climáticos — Metepec (2020) Grupo 20 -Tmax





Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2020) Grupo 20 - Rs Tmax

Días del ciclo: 170

ETc total [mm]: 567.5

ETverde total [mm]: 284.4

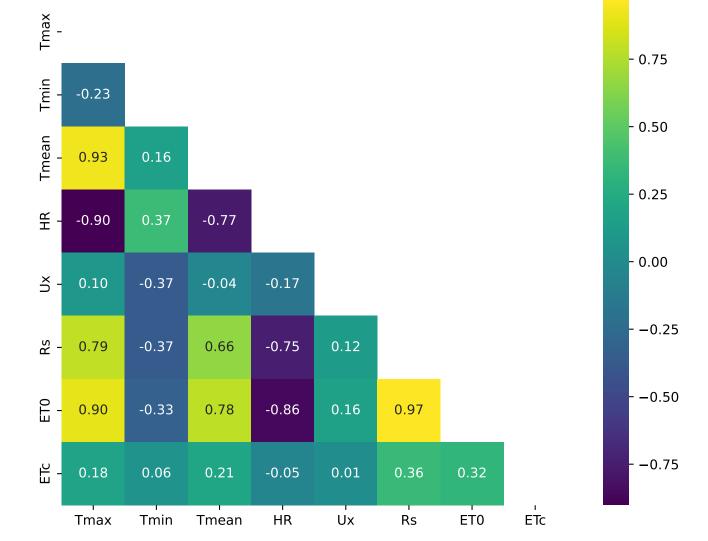
ETazul total [mm]: 283.2

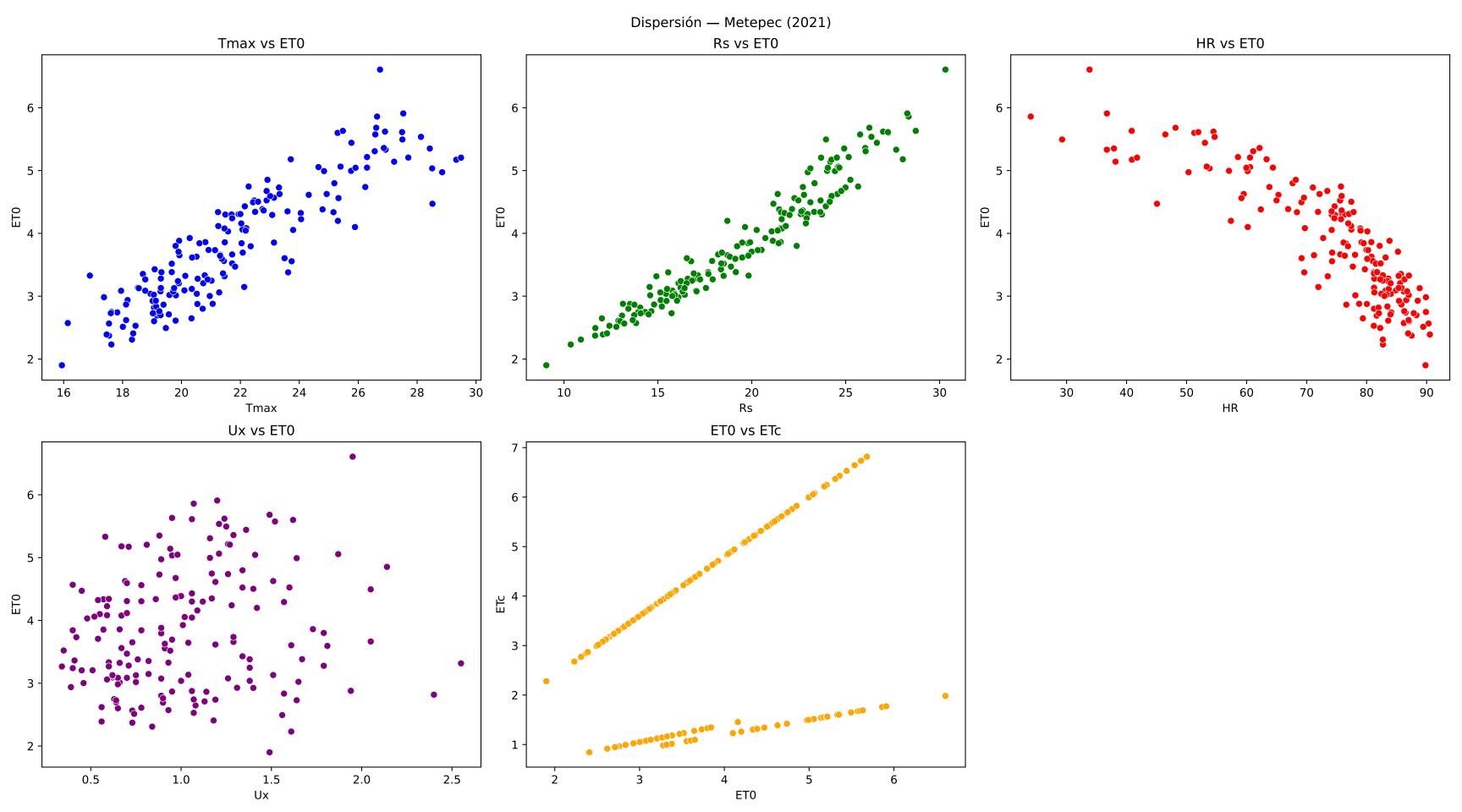
Tmax / Tmin [°C]: 29.5 / 7.4

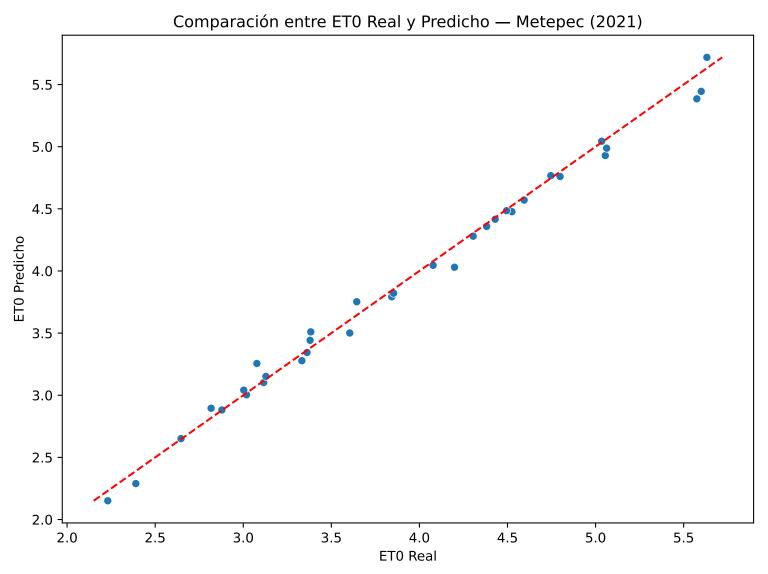
Metepec — 2021 · Resultados y métricas

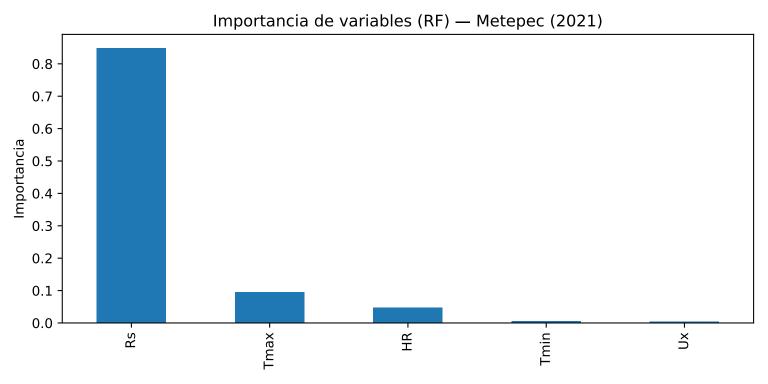
```
[Metepec 2021] Regresión Lineal ETO -R^2: 0.9922 MSE: 0.0068
[Metepec 2021] Random Forest ET0 - R^2: 0.9765 MSE: 0.0206
Importancias: {'Tmax': 0.09440384413341305, 'Tmin': 0.005929547847410227, 'HR': 0.04702459946328977, 'Ux':
0.0042093167912974, 'Rs': 0.8484326917645896}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        19.572703
                    9.487027 81.938649 1.416216
                                                  15.835676 3.031256 2.381949
        25.589474
                    9.912105 59.928947 1.295263
                                                  24.987895
                                                            5.102053 6.122463
2
                   10.205897 75.454872 0.874615
                                                  22.222821 4.228336 4.782041
        22.345128
                  11.159231 83.480577 0.718846
                                                  15.988269 3.107554 2.711272
        19.733846
        26.782609
                    9.391304 47.370870 1.142174
                                                  24.464348 5.159366 1.547810
```

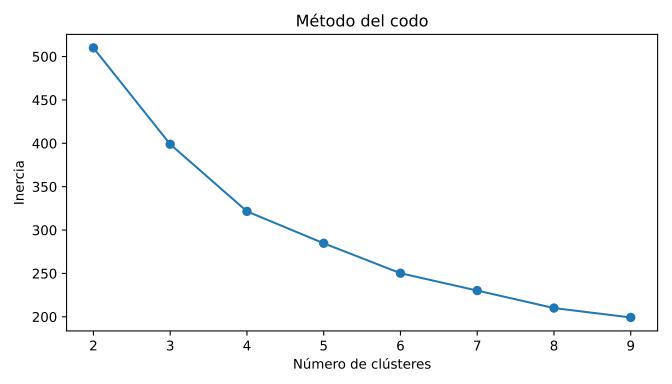
Matriz de Correlación entre Variables Meteorológicas





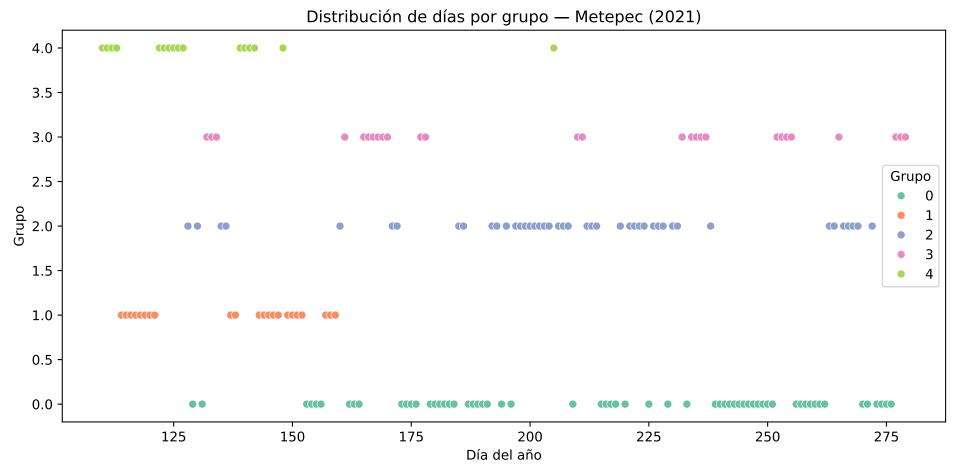


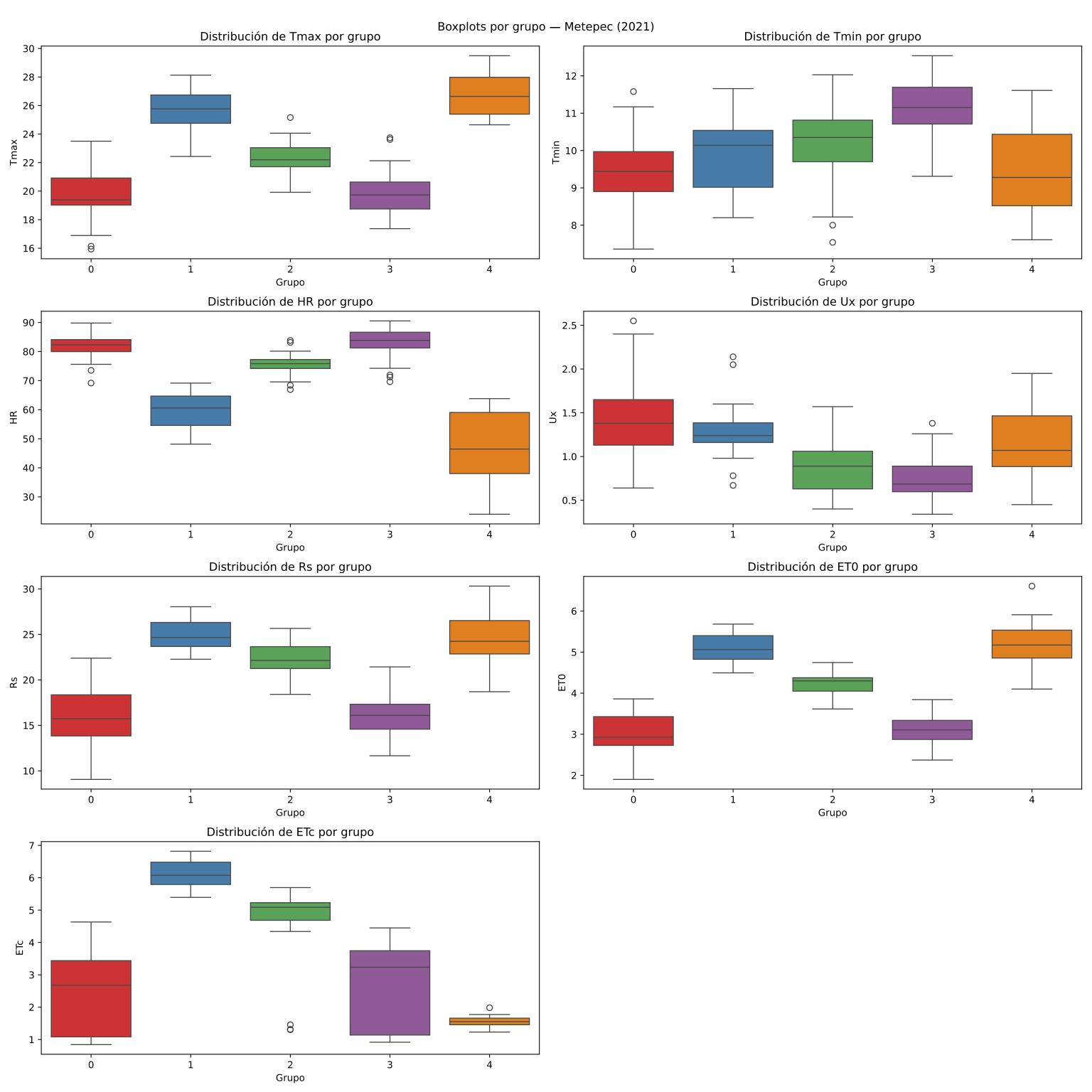


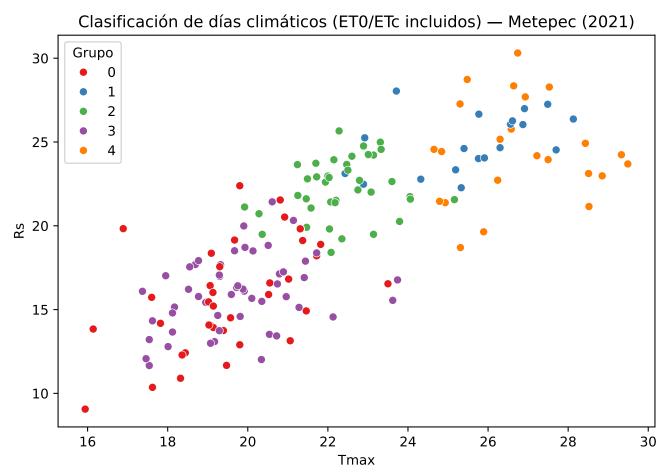


Clasificación de días climáticos — Metepec (2021) Grupo § 20 10 -

Tmax







Días del ciclo: 170

ETc total [mm]: 626.4

ETverde total [mm]: 277.4

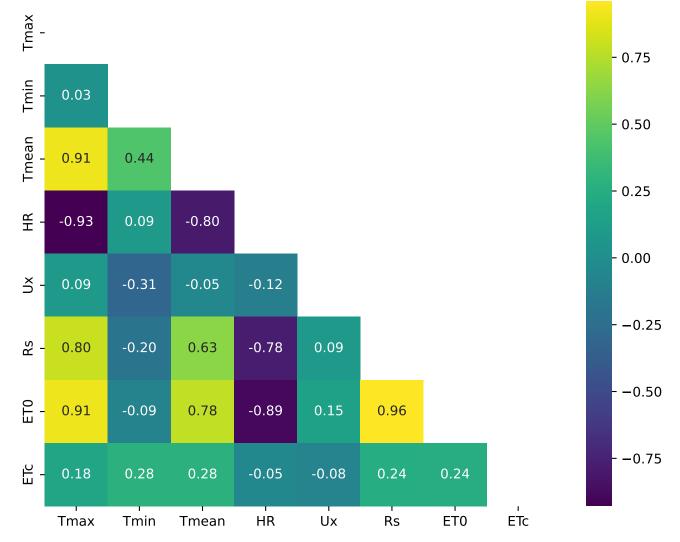
ETazul total [mm]: 349.0

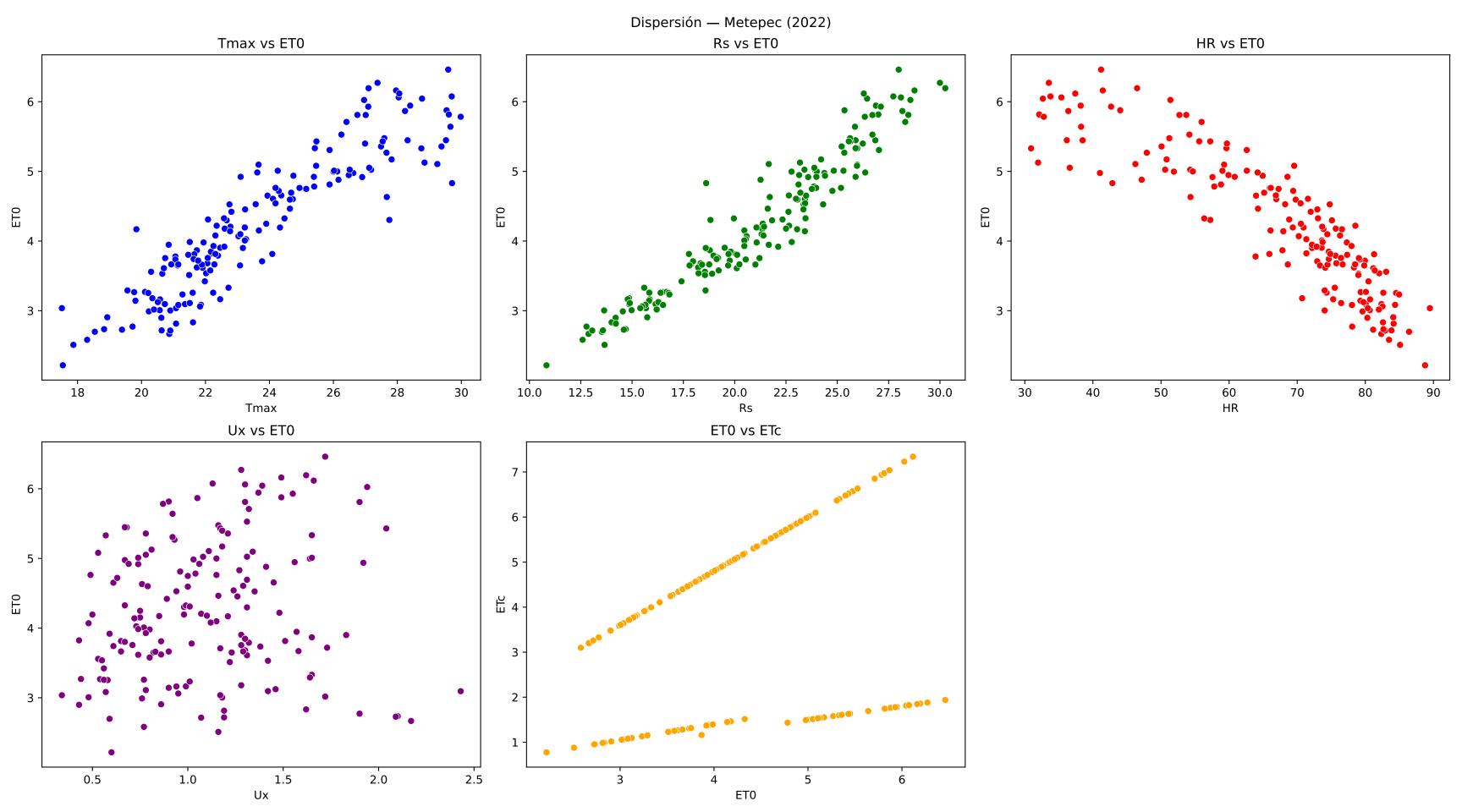
Tmax / Tmin [°C]: 30.0 / 3.9

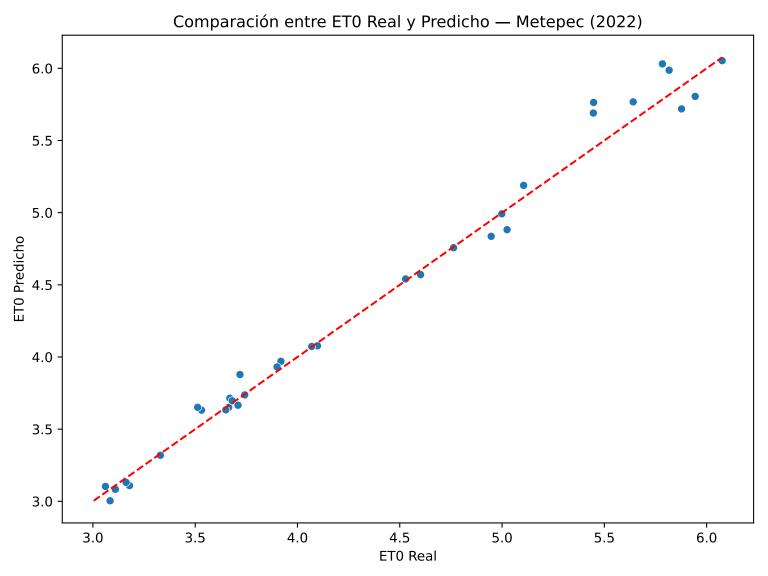
Metepec — 2022 · Resultados y métricas

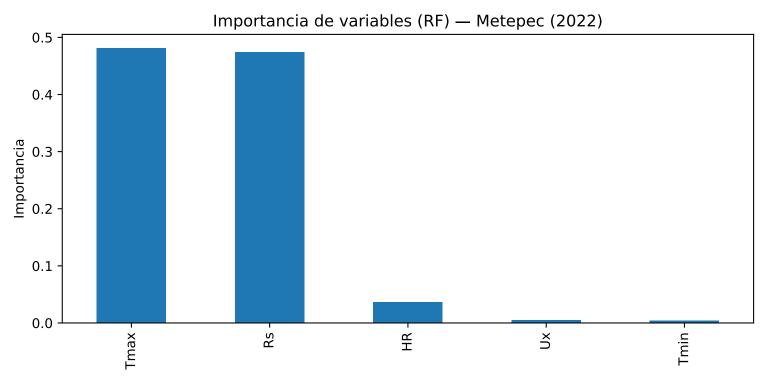
```
[Metepec 2022] Regresión Lineal ETO -R^2: 0.9865 MSE: 0.0126
[Metepec 2022] Random Forest ET0 - R^2: 0.9696 MSE: 0.0284
Importancias: {'Tmax': 0.4811848541206562, 'Tmin': 0.003937020895523468, 'HR': 0.0365135911934478, 'Ux':
0.004646368382292455, 'Rs': 0.47371816540808004}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        21.051714
                   8.752000 77.382571 1.377714
                                                  17.775143 3.373578 1.890430
        26.607308
                  10.048077 54.541923 1.255769
                                                  25.055385
                                                            5.267413 6.320895
2
                   9.594000 43.810000 1.183000
                                                  25.825000
        27.723667
                                                            5.515286 1.654586
                  11.152222 81.213333 0.711852 15.624444 3.118494 3.285692
        20.554074
                  10.303269 71.789423 0.958462 21.300385 4.186332 4.952875
        23.141538
```

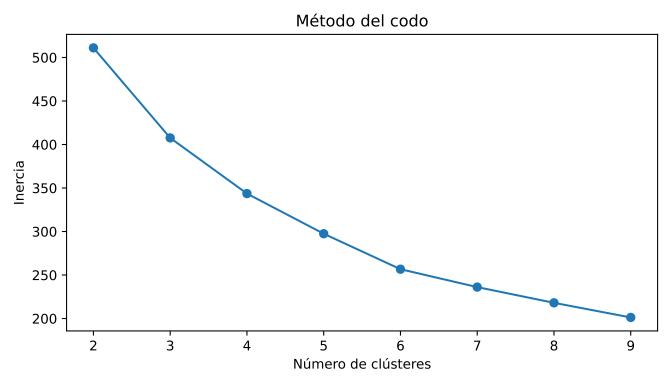
Matriz de Correlación entre Variables Meteorológicas



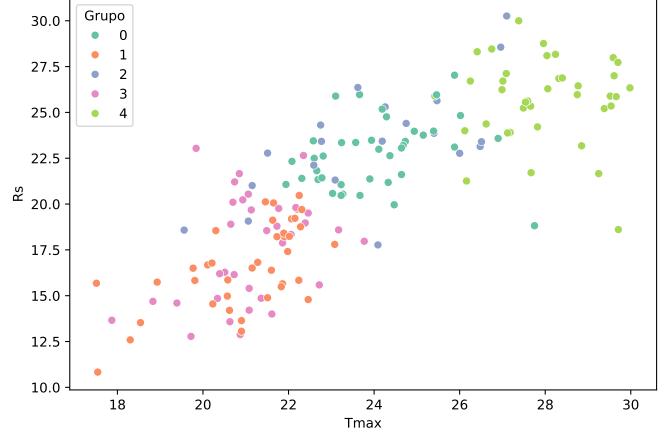


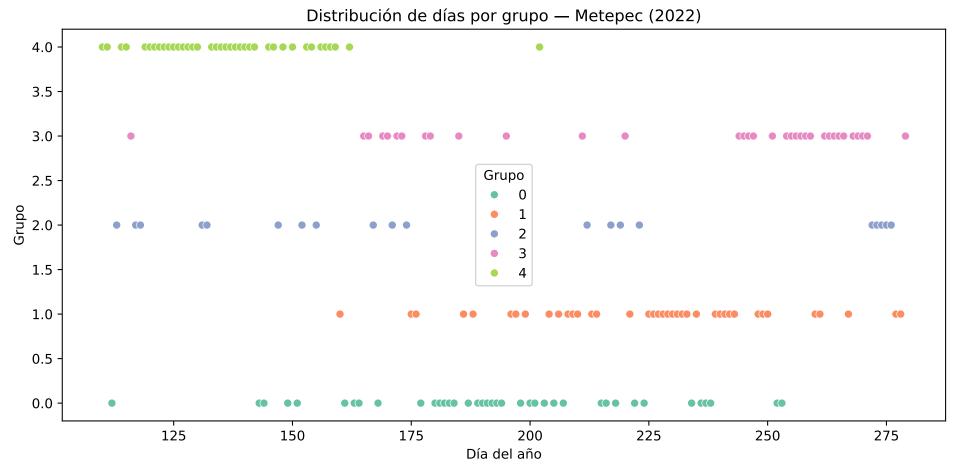


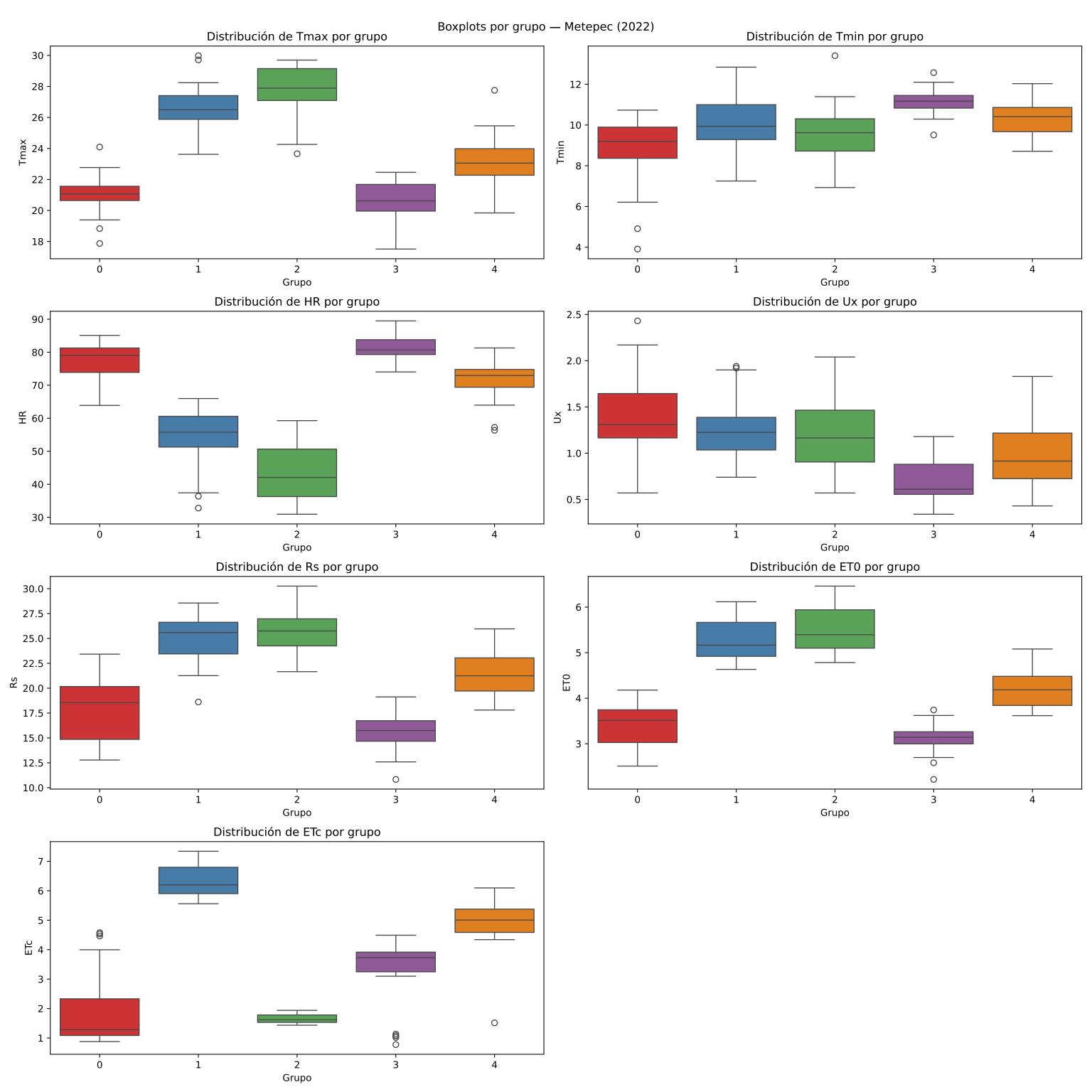




Clasificación de días climáticos — Metepec (2022)







Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2022) Grupo 30.0 27.5 25.0 22.5 20.0 ع 17.5 15.0 12.5 10.0 20 22 26 18 24 28 30

Tmax

Días del ciclo: 170

ETc total [mm]: 688.8

ETverde total [mm]: 200.6

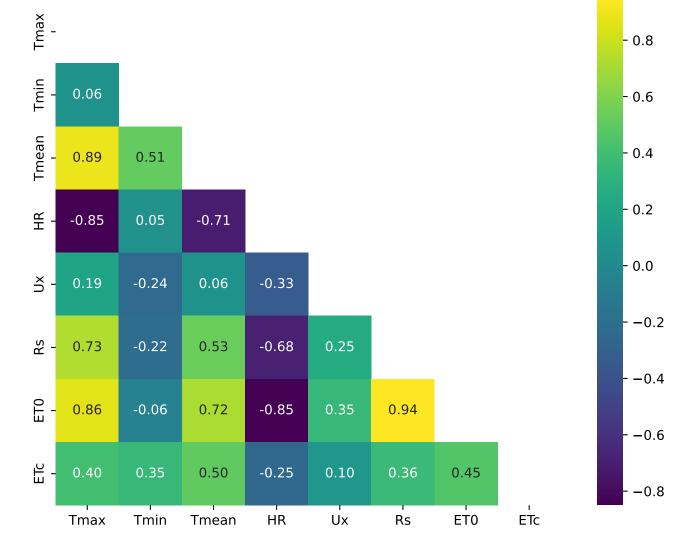
ETazul total [mm]: 488.2

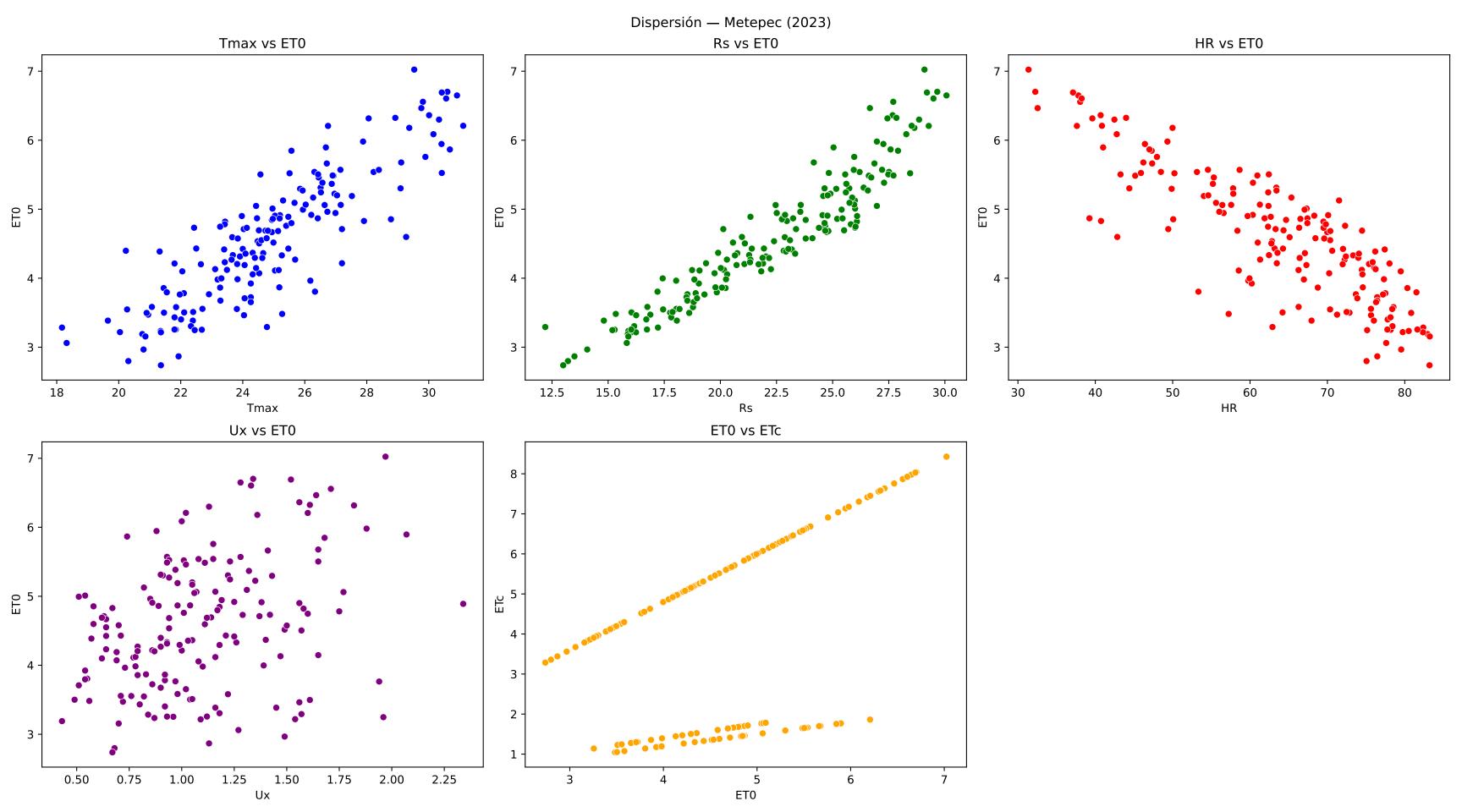
Tmax / Tmin [°C]: 31.1 / 6.2

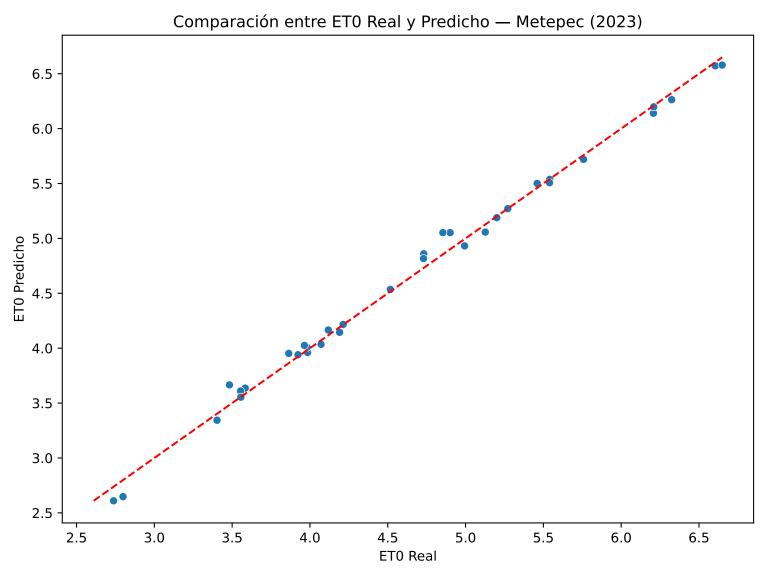
Metepec — 2023 · Resultados y métricas

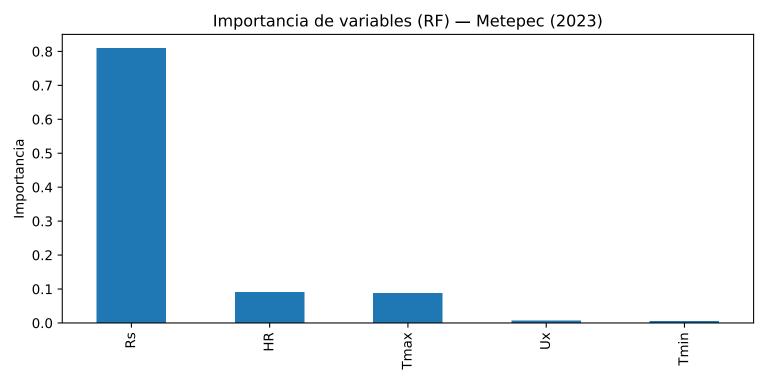
```
[Metepec 2023] Regresión Lineal ETO -R^2: 0.9942 MSE: 0.0063
[Metepec 2023] Random Forest ET0 - R^2: 0.9744 MSE: 0.0280
Importancias: {'Tmax': 0.08713855732760718, 'Tmin': 0.005178825286089476, 'HR': 0.09123515158208564, 'Ux':
0.006814516884145355, 'Rs': 0.8096329489200723}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                 ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                        Rs
                        mean
                                  mean
                                                       mean
                                                                mean
                                                                          mean
             mean
                                            mean
cluster
0
        21.694103 10.879231 76.572564 1.046154
                                                  16.731282 3.384914 3.436172
        26.149375
                  10.796563
                             62.098750 1.081875
                                                  24.987500
                                                            5.100334
                                                                      6.120401
                             41.281579 1.362105
                                                  27.984737
        29.937895
                  11.648947
                                                            6.291763 7.550116
                   8.980333
                             55.153000 1.334333
                                                  25.273000
                                                            5.106280 1.642680
        25.516333
        24.360800 11.549200 67.980400 0.897600 21.018600 4.259922 3.324027
```

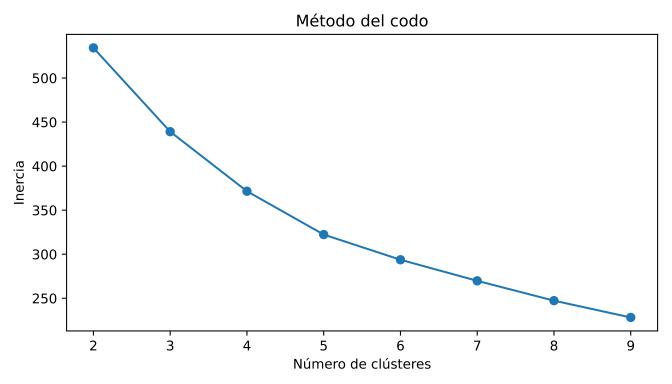
Matriz de Correlación entre Variables Meteorológicas



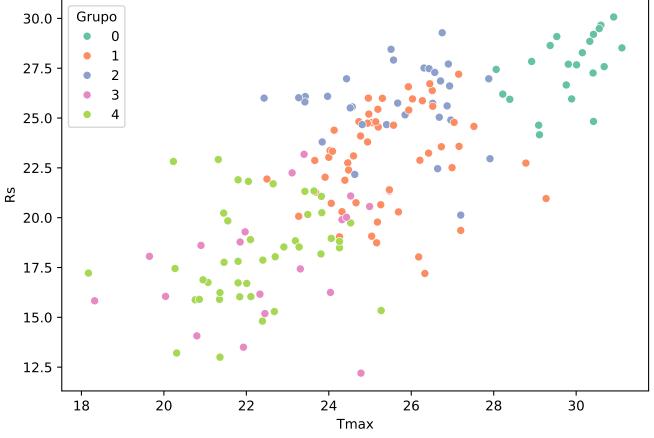


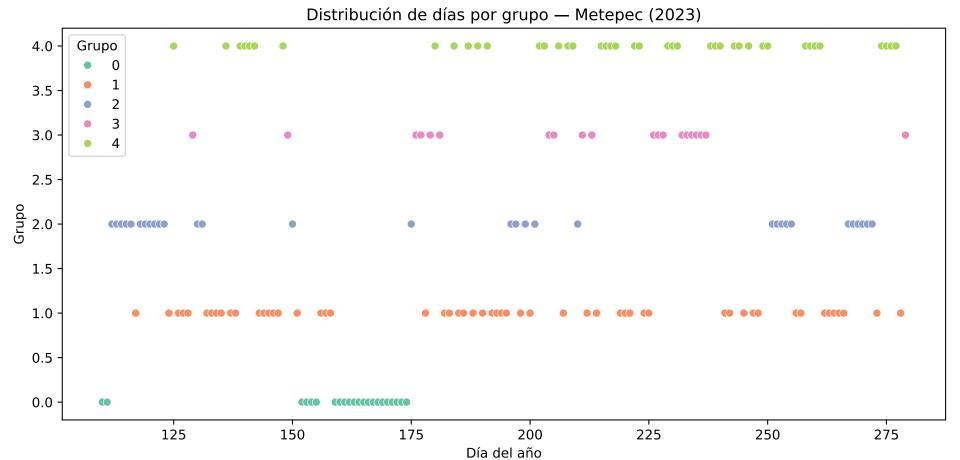


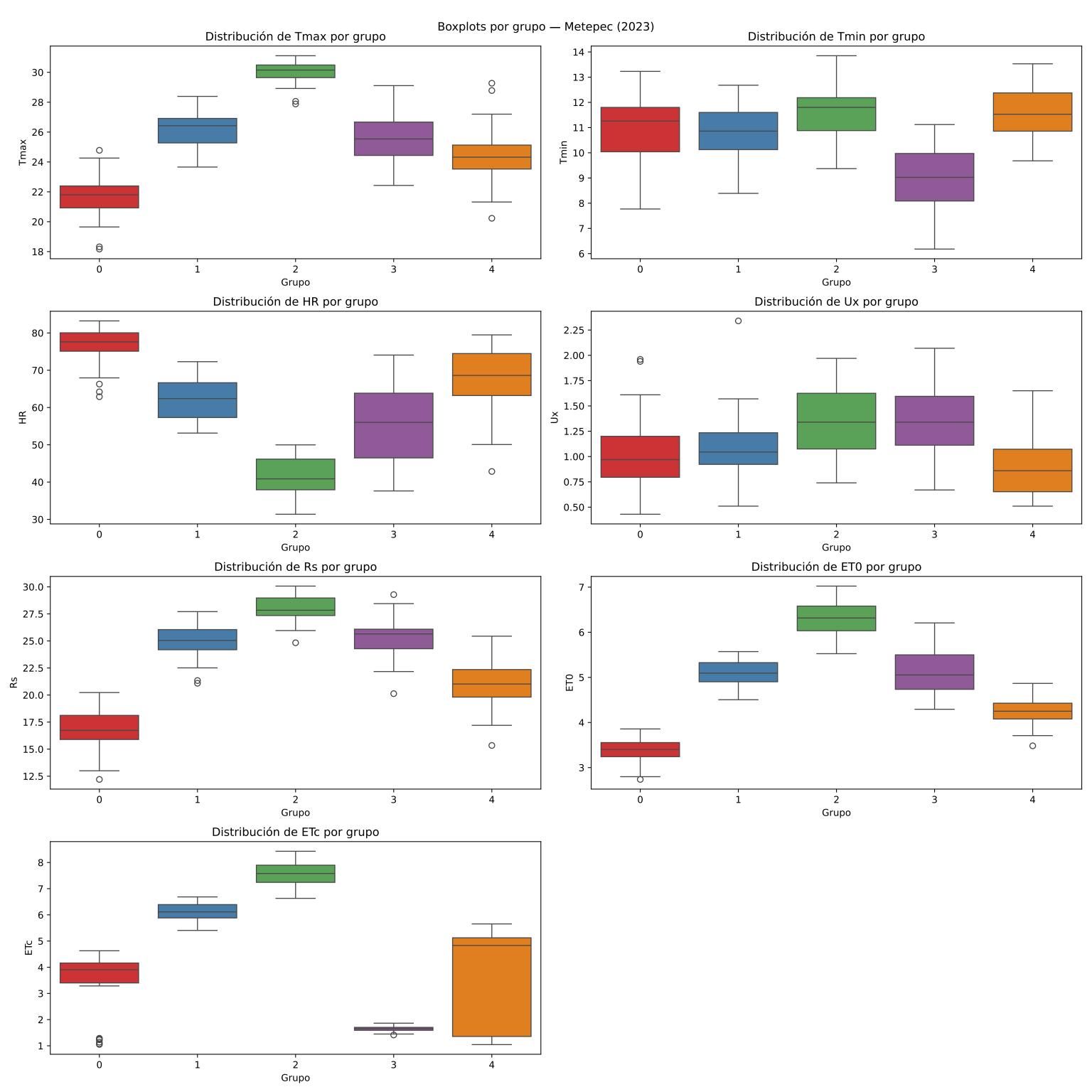




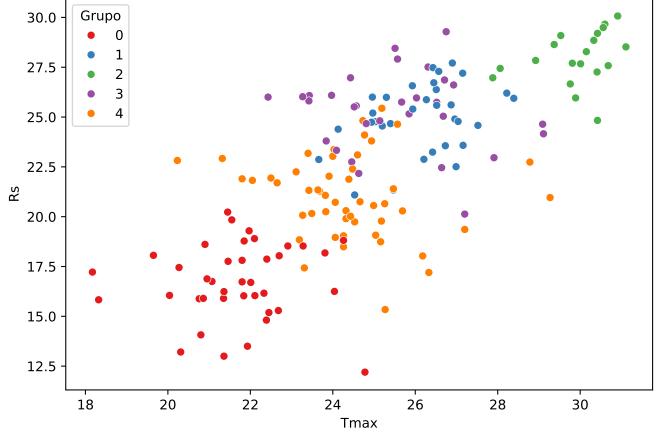
Clasificación de días climáticos — Metepec (2023)







Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2023)



Días del ciclo: 170

ETc total [mm]: 622.7

ETverde total [mm]: 305.6

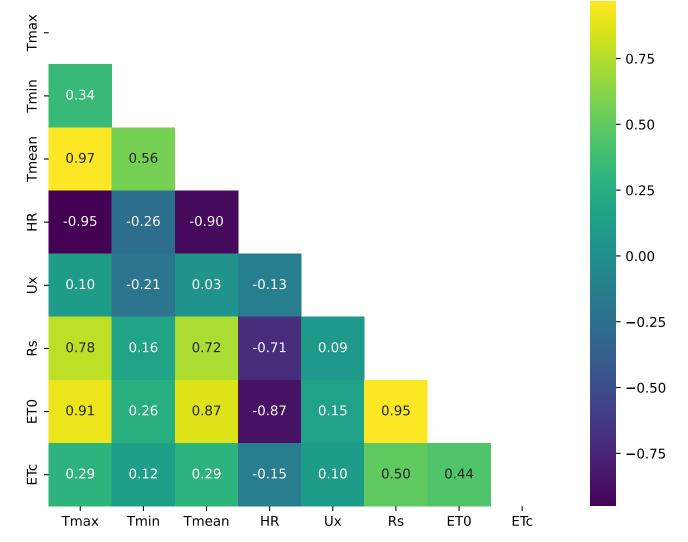
ETazul total [mm]: 317.1

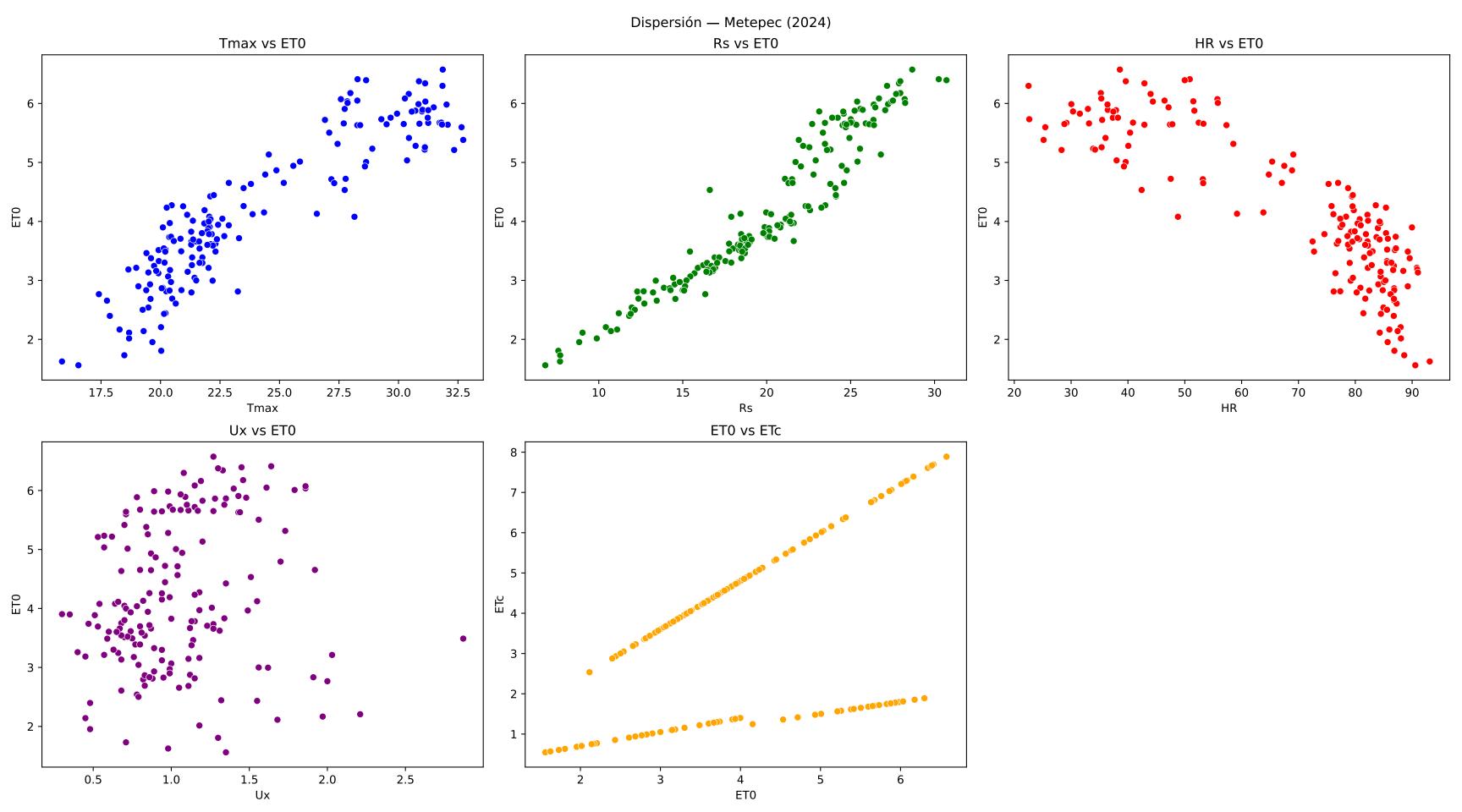
Tmax / Tmin [°C]: 32.7 / 5.7

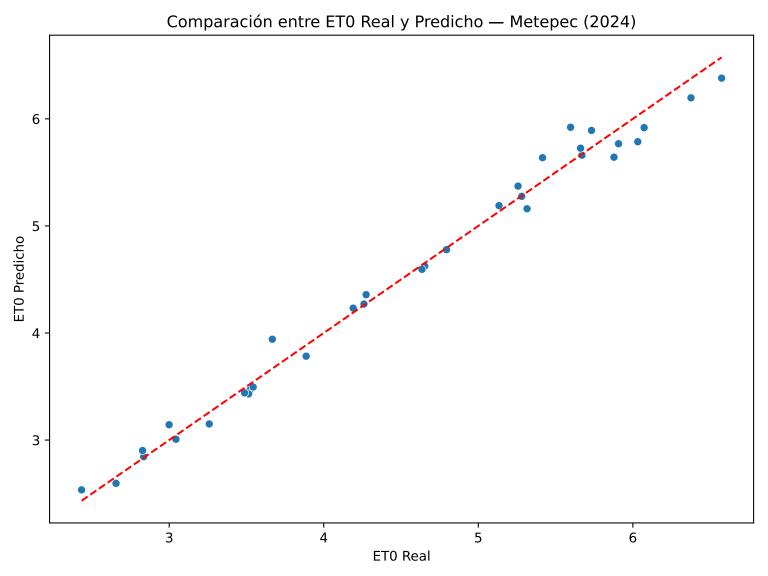
Metepec — 2024 · Resultados y métricas

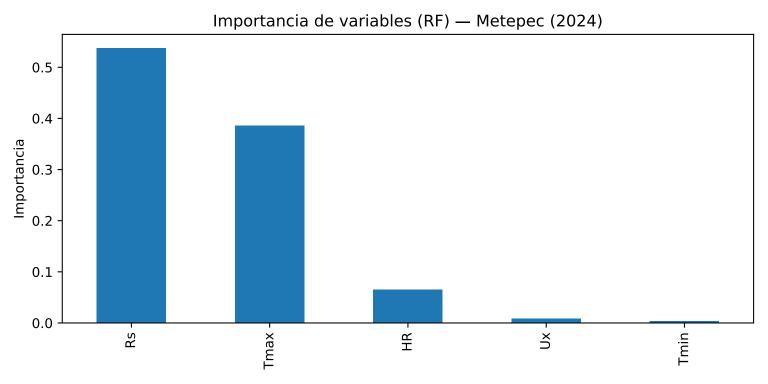
```
[Metepec 2024] Regresión Lineal ETO -R^2: 0.9875 MSE: 0.0182
[Metepec 2024] Random Forest ET0 - R^2: 0.9848 MSE: 0.0221
Importancias: {'Tmax': 0.3856165077221008, 'Tmin': 0.003466885678003648, 'HR': 0.06522765208621795, 'Ux':
0.008270495444269594, 'Rs': 0.537418459069408}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        19.474286
                    9.855238 84.694762 1.412857
                                                  12.270952
                                                            2.466601 1.445305
        22.698462
                  10.903846 75.838205 1.063333
                                                  21.434103
                                                            4.164218
                                                                      4.901249
                  11.933333 35.724333 1.074000
                                                  24.206333
        29.853333
                                                            5.552464 1.665739
        30.018000 12.211200 45.612800 1.247600
                                                  26.278400 5.878914 7.054697
                  12.077455 83.734000 0.778727
                                                  16.807273 3.303795 3.179857
        20.858364
```

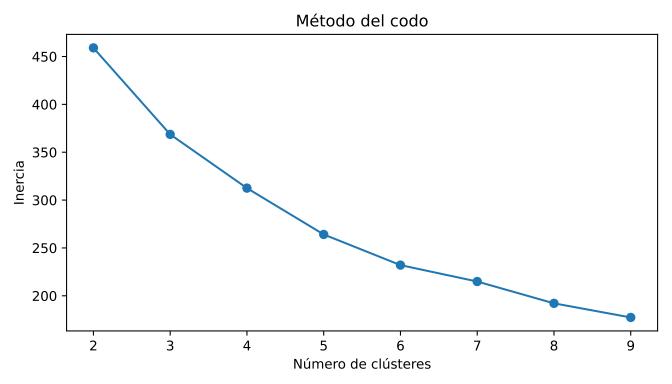
Matriz de Correlación entre Variables Meteorológicas



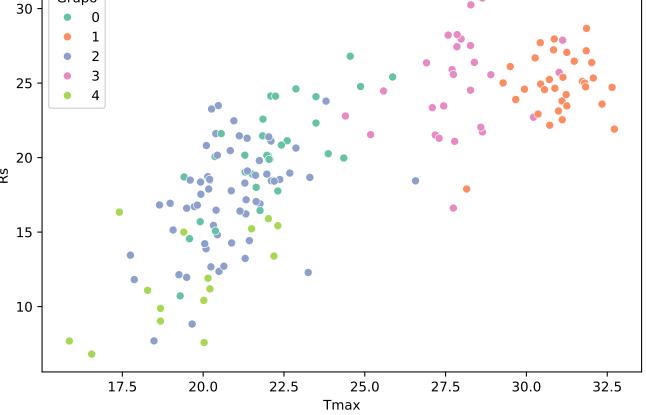




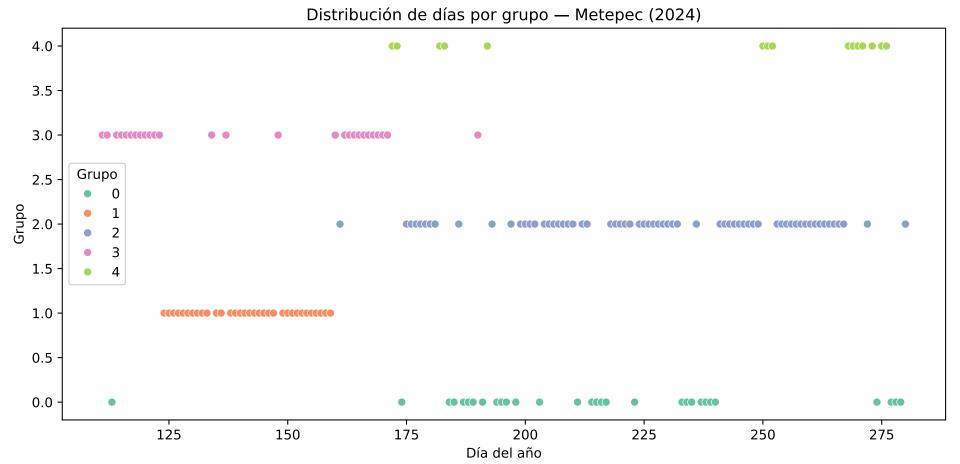


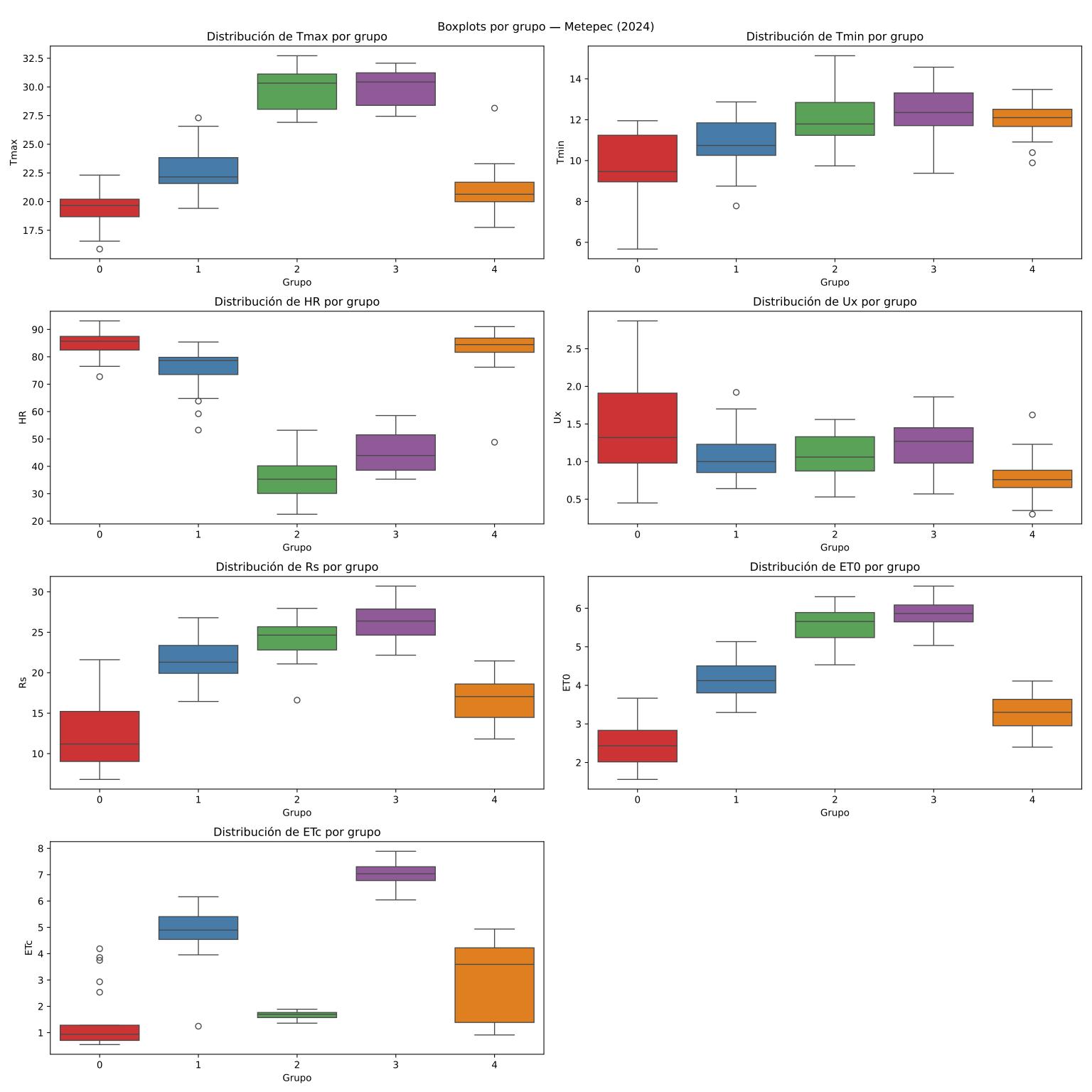


Clasificación de días climáticos — Metepec (2024)



Grupo





Clasificación de días climáticos (ET0/ETc incluidos) — Metepec (2024) Grupo 30 25 20 15 10 17.5 20.0 32.5 22.5 25.0 27.5 30.0 Tmax