Generado: 2025-09-30 17:24

Reporte de Modelos — Cajeme

10-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 3

Cajeme — 2010-2011

Días del ciclo: 172

ETc total [mm]: 733.1

ETverde total [mm]: 2.5

ETazul total [mm]: 730.6

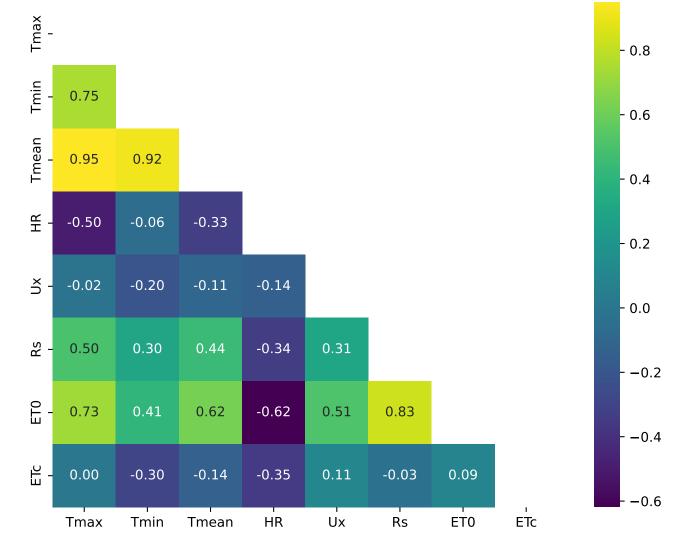
Tmax / Tmin [°C]: 38.9 / -0.4

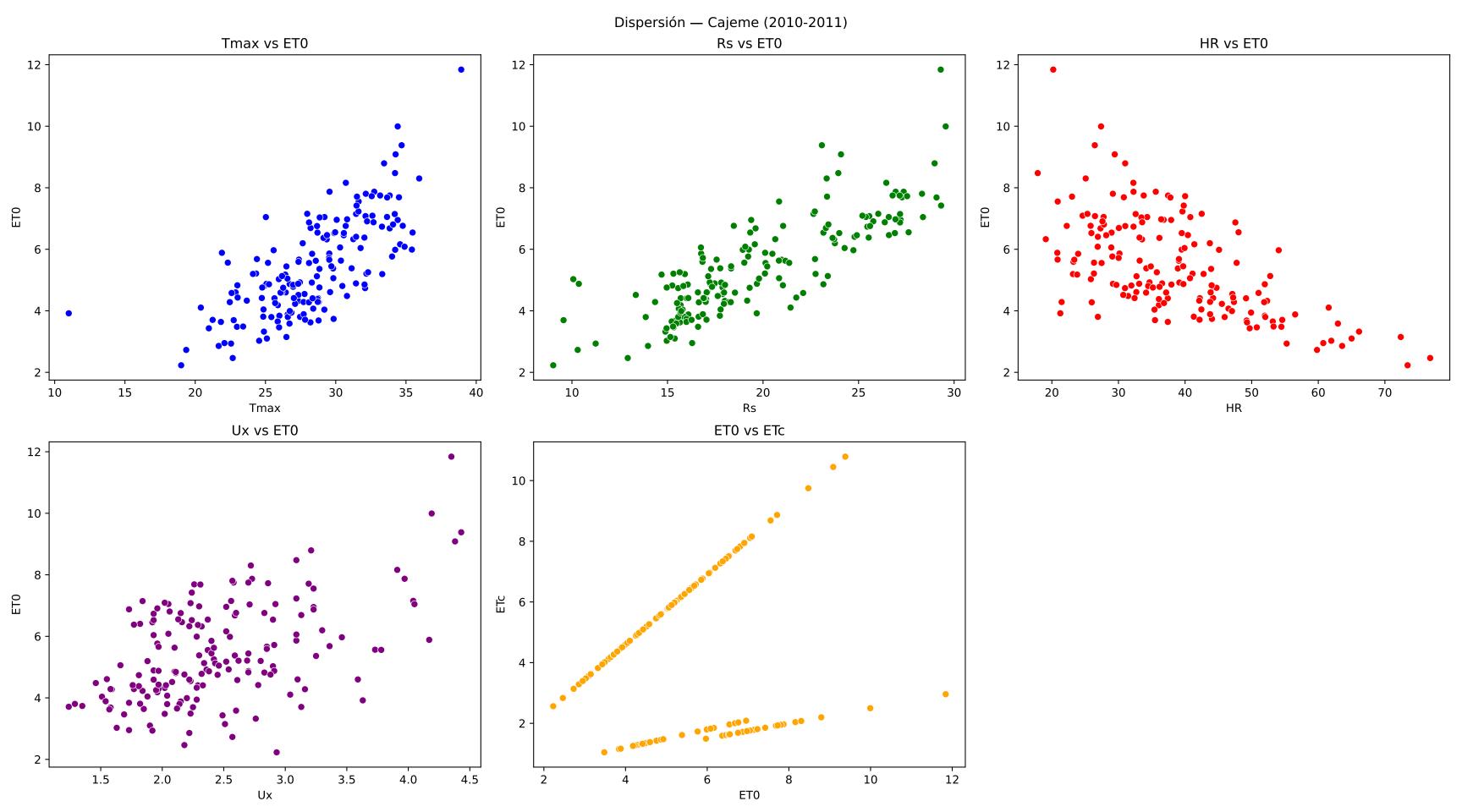
Cajeme — 2010-2011 · Resultados y métricas

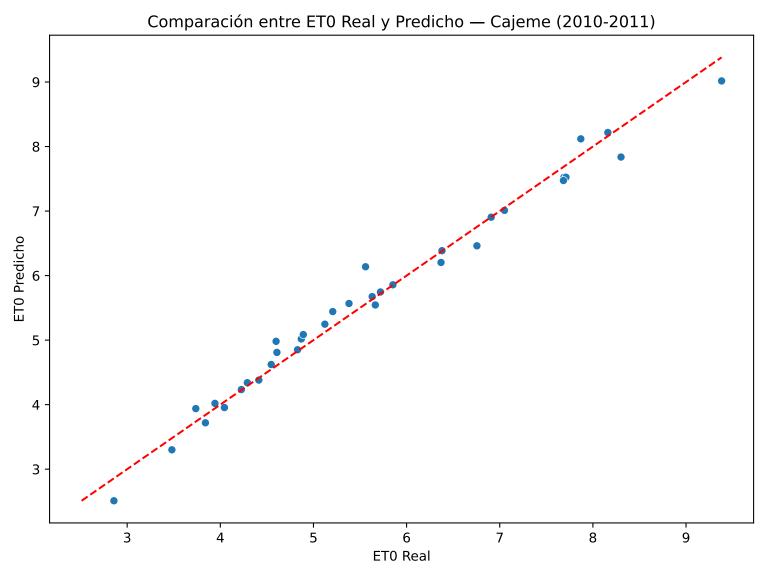
```
[Cajeme 2010-2011] Regresión Lineal ETO — R<sup>2</sup>: 0.9819 MSE: 0.0449
[Cajeme 2010-2011] Random Forest ETO - R^2: 0.9626 MSE: 0.0927
Importancias: {'Tmax': 0.20208644906173734, 'Tmin': 0.014226840370550393, 'HR': 0.08866895971177362, 'Ux':
0.10640749371139885, 'Rs': 0.5886102571445399}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                             ETc
             Tmax
                        Tmin
                                               Ux
                                                          Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                            mean
             mean
                                             mean
cluster
                                                              5.250256 6.037795
0
        25.649655
                    9.604483 32.723103 2.868966
                                                   18.367586
        28.909773
                   14.040909 37.941136 1.967727
                                                   16.805227
                                                              4.563267
                                                                        3.695445
                   16.340513 35.322821 2.766667
                                                   25.240513
                                                             7.280296 1.885661
         32.000000
                   14.322917 27.826250 2.505833
                                                   23.517083
                                                             6.885244 7.918030
        31.530833
                   11.661111 54.155278 2.331667 16.047500 3.694690 3.662964
        23.941389
```

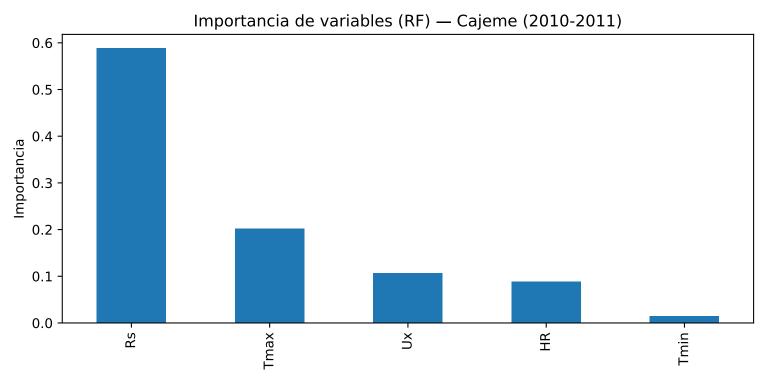
Cajeme — 2010-2011

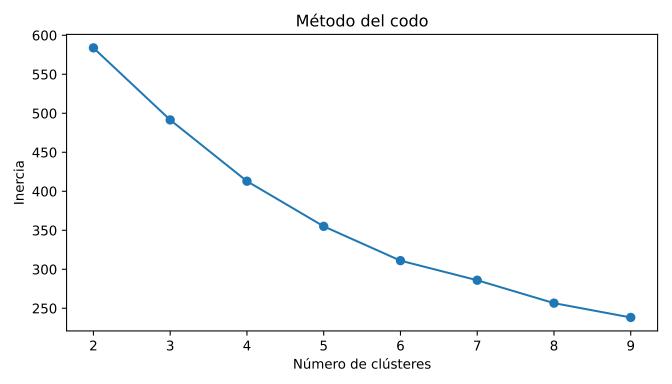
Matriz de Correlación entre Variables Meteorológicas



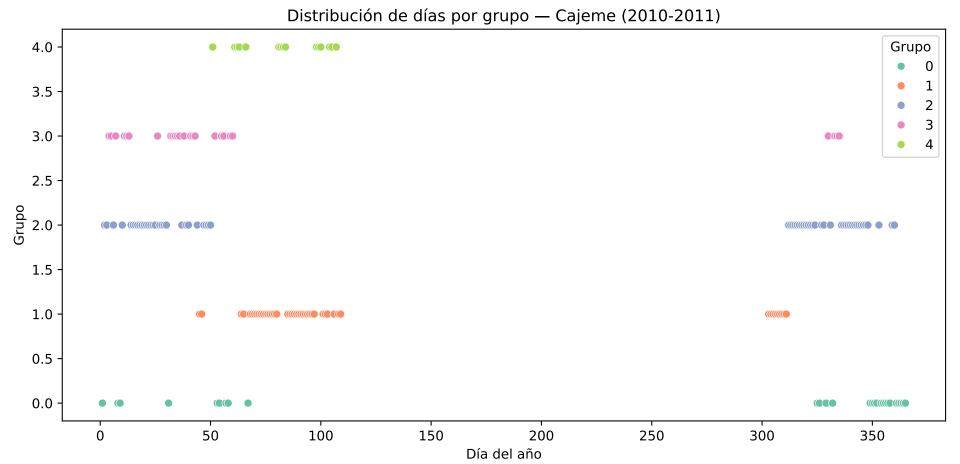


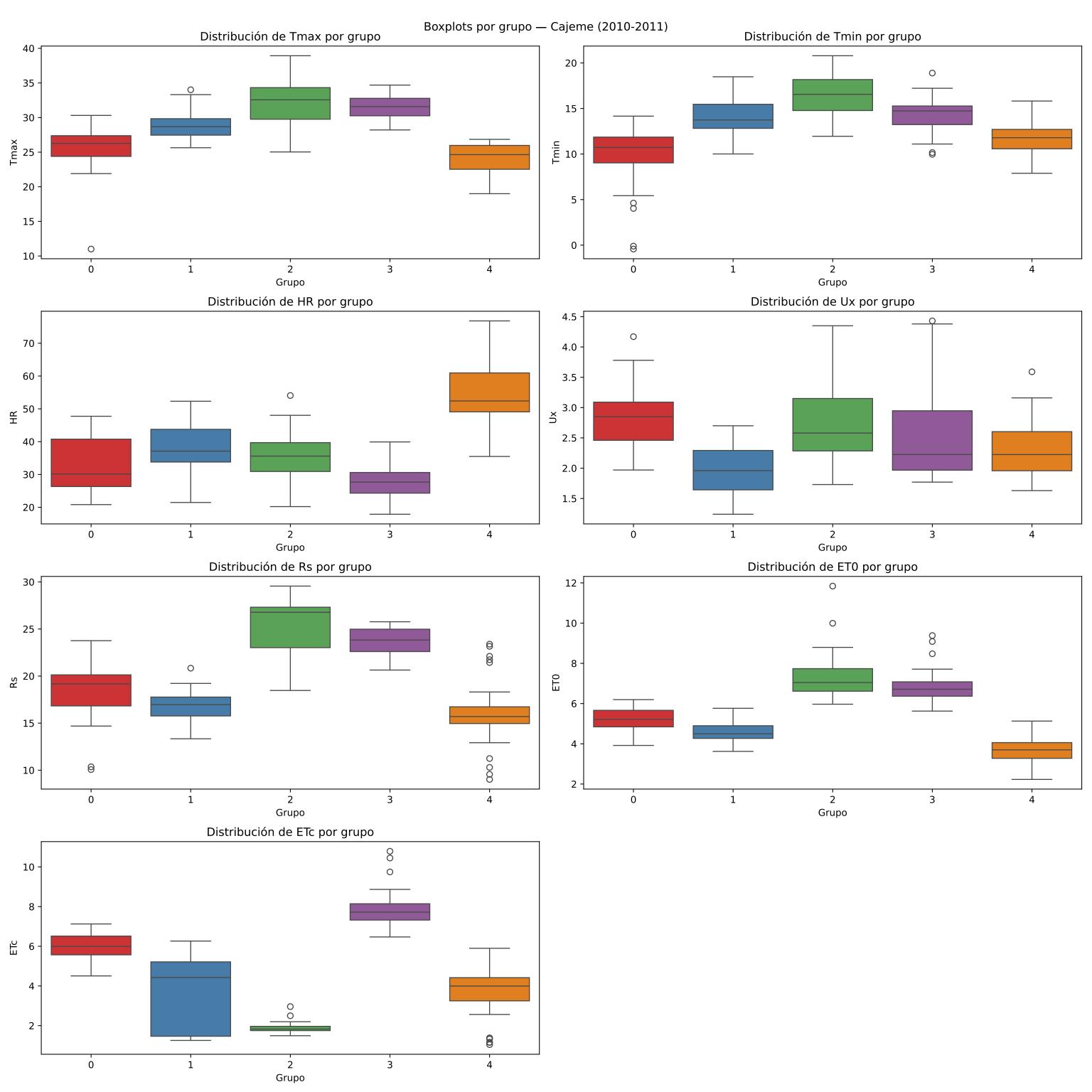


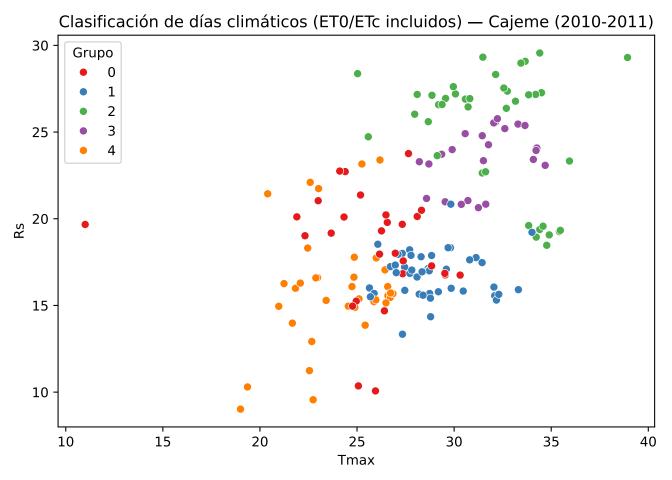




Clasificación de días climáticos — Cajeme (2010-2011) 30 Grupo 25 SE 20 · 15 10 -. 15 10 20 25 30 35 40 Tmax







Cajeme — 2011-2012

Días del ciclo: 172

ETc total [mm]: 668.0

ETverde total [mm]: 14.5

ETazul total [mm]: 653.6

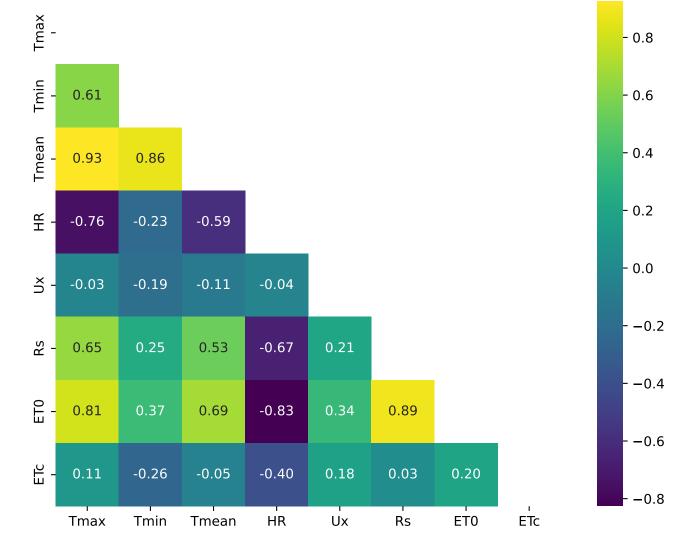
Tmax / Tmin [°C]: 36.0 / 3.4

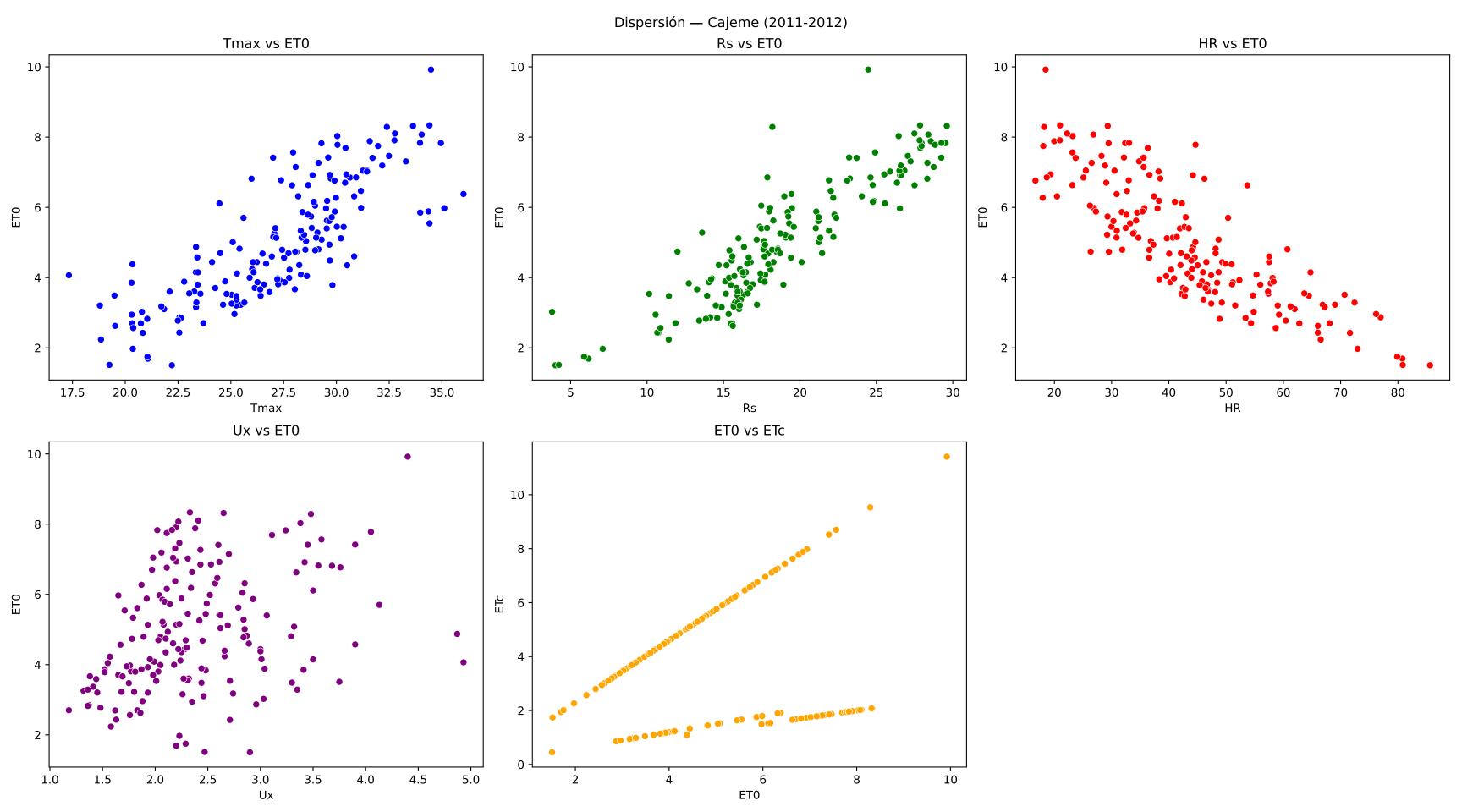
Cajeme — 2011-2012 · Resultados y métricas

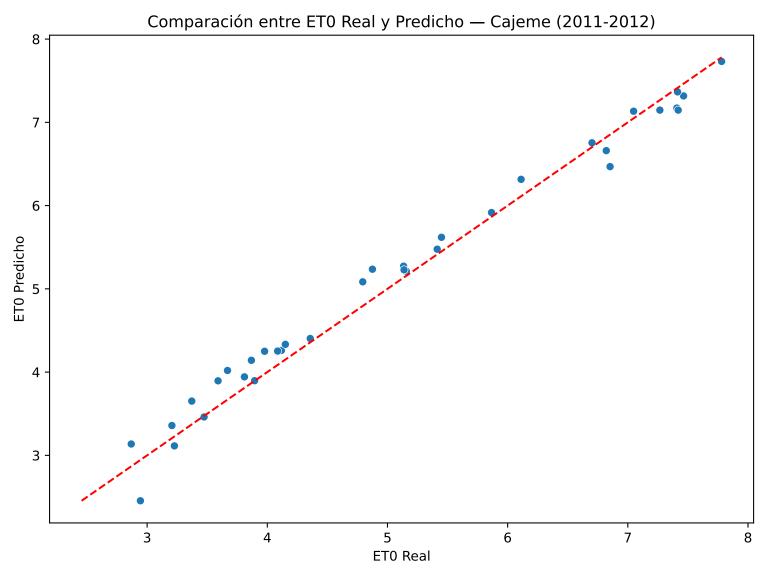
```
[Cajeme 2011-2012] Regresión Lineal ETO — R<sup>2</sup>: 0.9813 MSE: 0.0448
[Cajeme 2011-2012] Random Forest ETO - R<sup>2</sup>: 0.9522 MSE: 0.1147
Importancias: {'Tmax': 0.1608767766579189, 'Tmin': 0.009643193603227415, 'HR': 0.11455179464568141, 'Ux': 0.03317586539651,
'Rs': 0.6817523696966623}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                          Rs
                                                                    ET0
                                                                              ETc
             Tmax
                        Tmin
                                               Ux
                        mean
                                   mean
                                              mean
                                                        mean
                                                                   mean
                                                                             mean
             mean
cluster
        29.542941 13.373824 30.560588 2.632059
                                                    20.971765
                                                             6.236367 7.171822
        27.008367 12.400000 44.250816 1.972449
                                                    16.675510
                                                              4.186416 4.089743
                              65.980333 2.140333
                                                   12.359333
                                                              2.802740 2.316569
         22.218333
                   12.830667
        31.305641 15.684103 32.556410 2.524103 25.318205
                                                             6.984974 1.820668
        23.220000
                    8.812000 51.656500 3.292000 17.341000 4.220327 4.165290
```

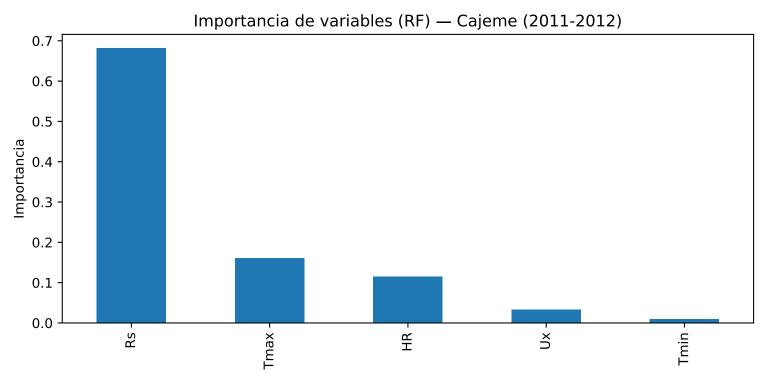
Cajeme — 2011-2012

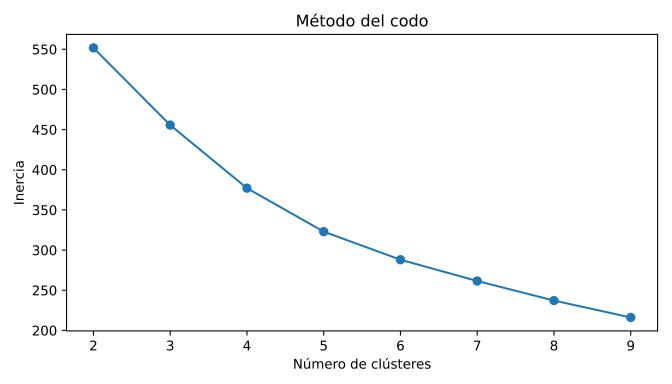
Matriz de Correlación entre Variables Meteorológicas



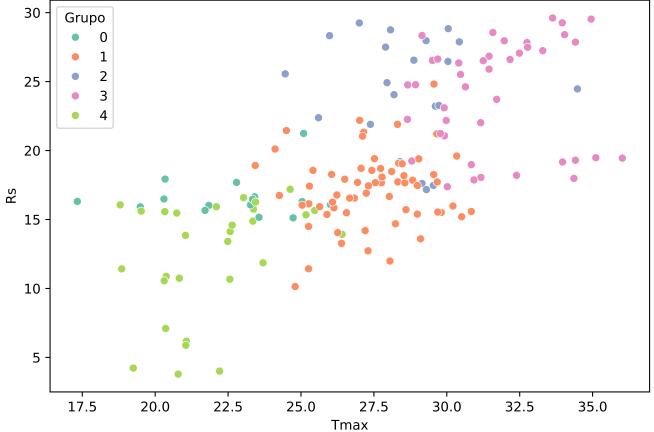






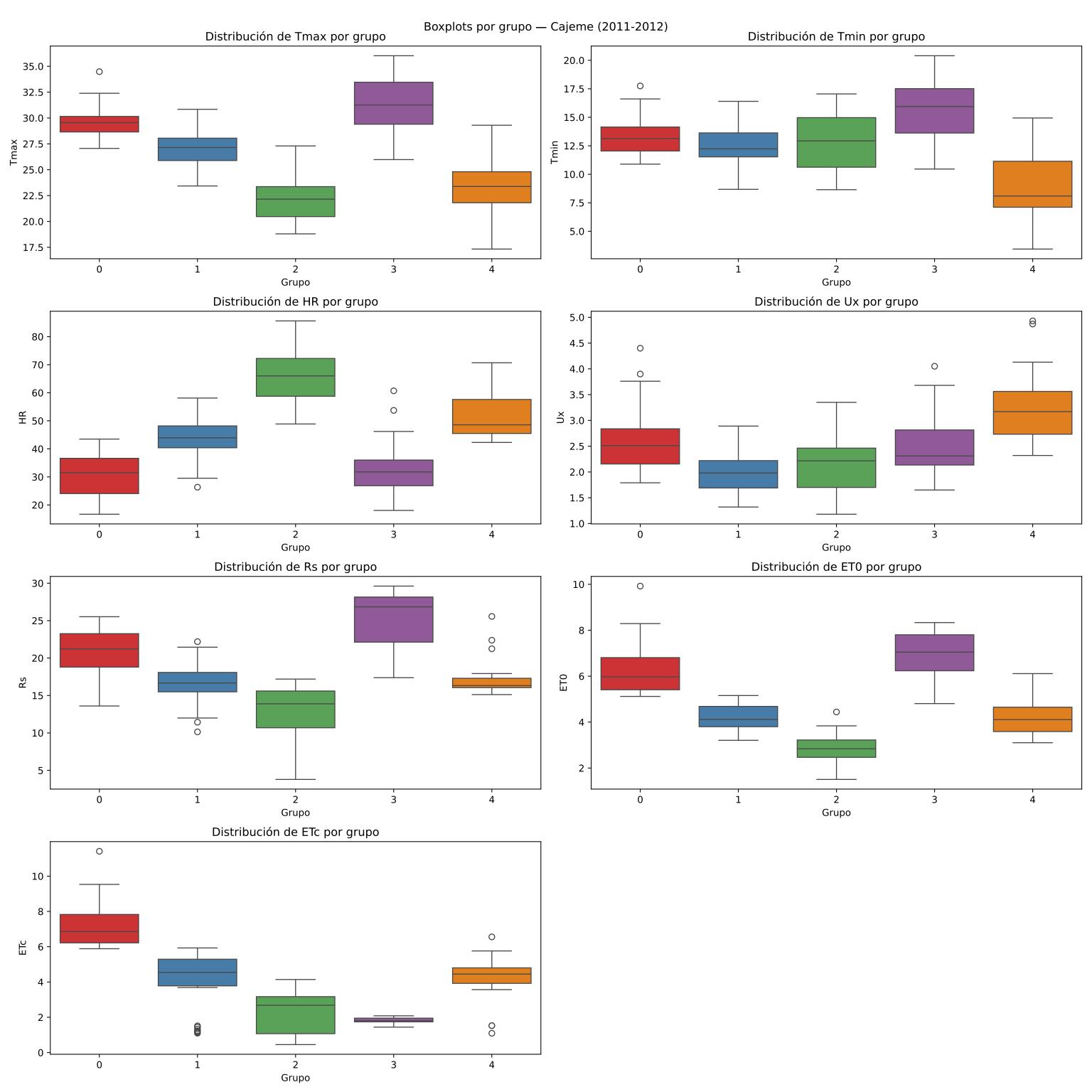


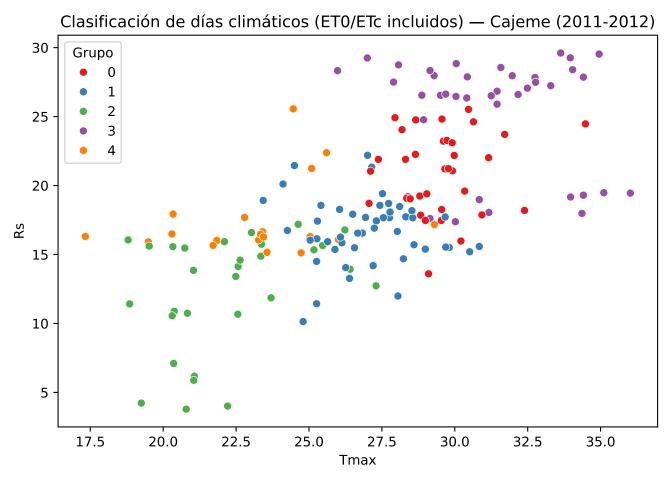
Clasificación de días climáticos — Cajeme (2011-2012)



Distribución de días por grupo — Cajeme (2011-2012) Grupo • ((() 3.5 3.0 ((() 2.5 Odnuo 2.0 00 1.5 1.0 0.5 -0.0 -100 50 150 200 250 300 350

Día del año





Cajeme — 2012-2013

Días del ciclo: 172

ETc total [mm]: 729.7

ETverde total [mm]: 10.7

ETazul total [mm]: 719.0

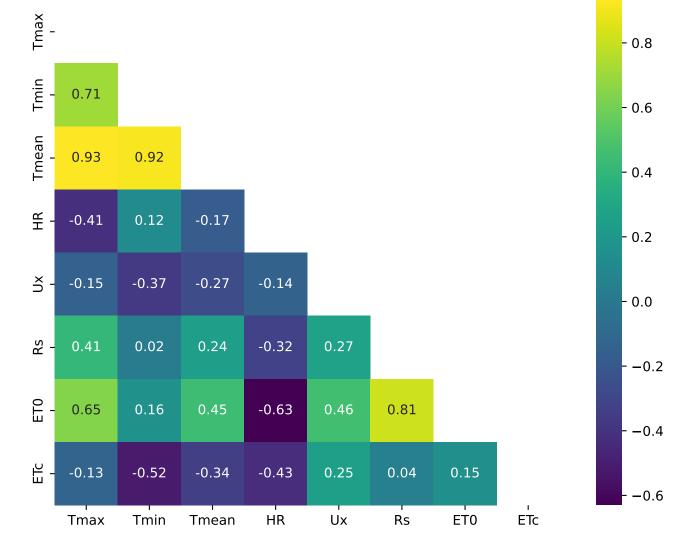
Tmax / Tmin [°C]: 37.3 / 2.2

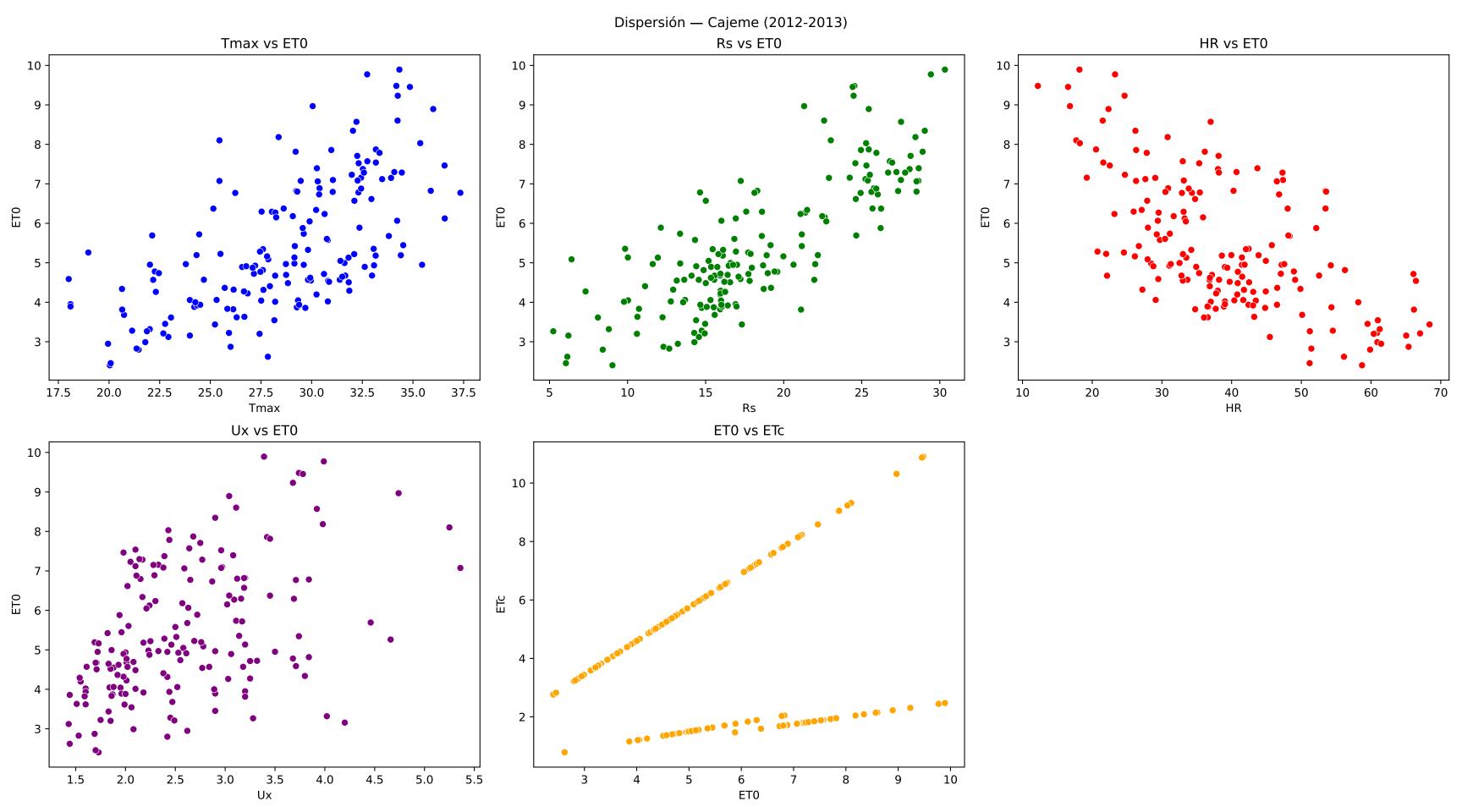
Cajeme — 2012-2013 · Resultados y métricas

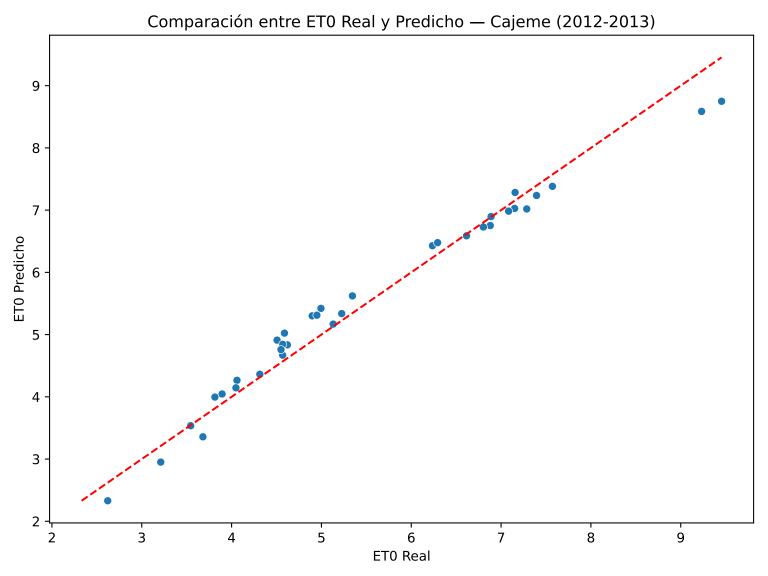
```
[Cajeme 2012-2013] Regresión Lineal ETO — R<sup>2</sup>: 0.9721 MSE: 0.0755
[Cajeme 2012-2013] Random Forest ETO - R^2: 0.9259 MSE: 0.2002
Importancias: {'Tmax': 0.09882096798249394, 'Tmin': 0.015369865263106651, 'HR': 0.162552733893574, 'Ux':
0.0551642593258794, 'Rs': 0.668092173534946}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                             ETc
             Tmax
                        Tmin
                                               Ux
                                                          Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                            mean
             mean
                                             mean
cluster
0
        24.441000
                    8.752000 35.509667 3.329667
                                                   18.587333 5.283962 6.076556
        31.875588
                   16.493529
                              36.675588
                                        2.912059
                                                   26.207647
                                                            7.512992 1.907499
                   16.997018 39.647544 2.095789
                                                   14.771754
                                                             4.661804 3.356709
        30.108947
                   12.272333 53.671333 2.357000
                                                   12.881667
        23.434333
                                                             3.426101 3.940016
                   14.090476 25.910476 2.703333 22.700952 7.163560 8.238093
        32.159524
```

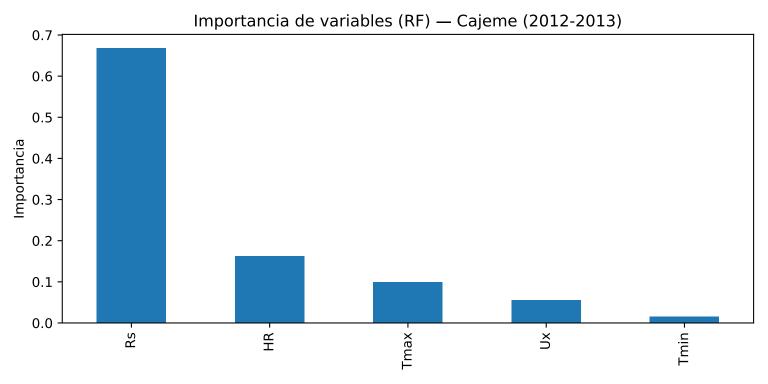
Cajeme — 2012-2013

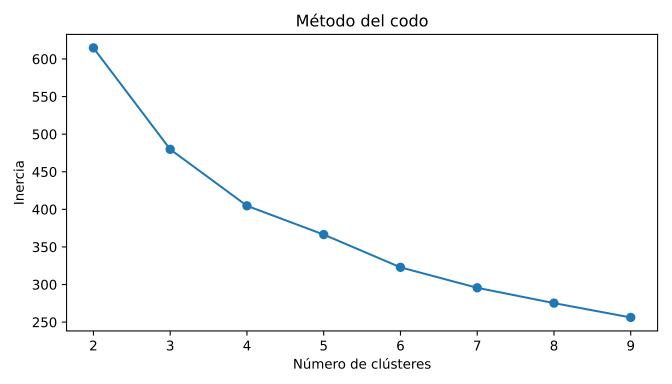
Matriz de Correlación entre Variables Meteorológicas



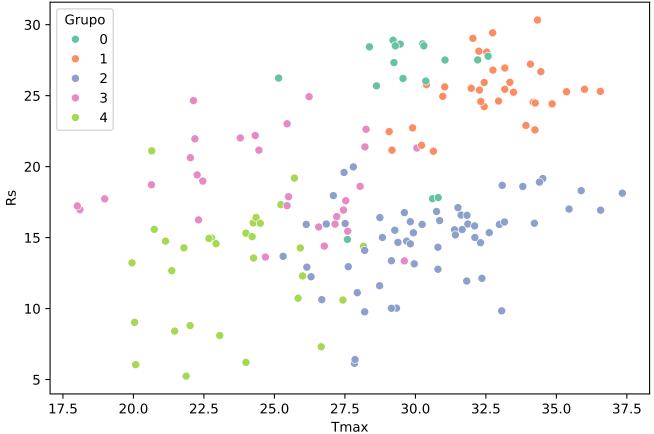






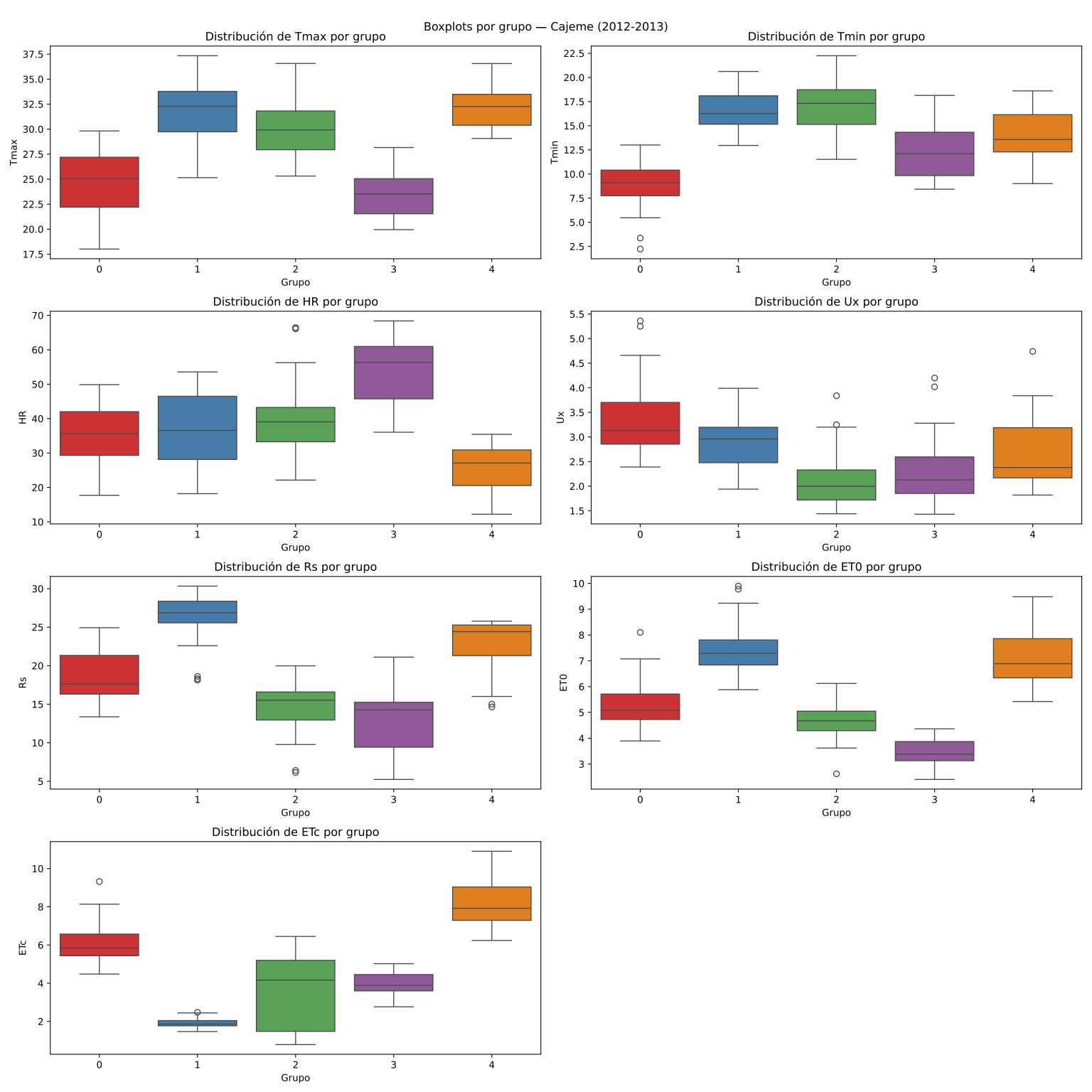


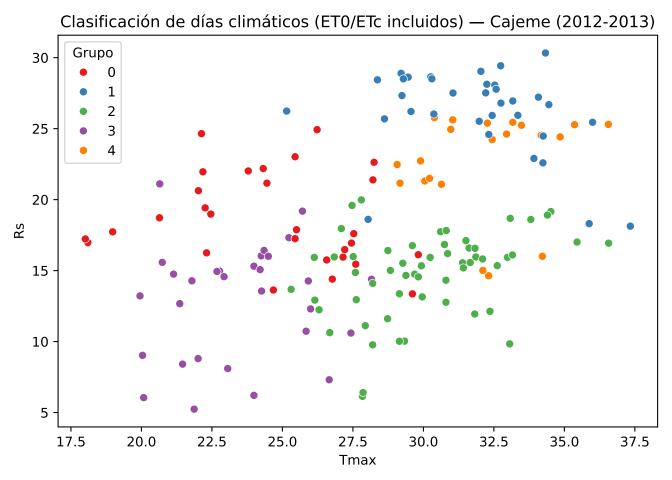
Clasificación de días climáticos — Cajeme (2012-2013)



Distribución de días por grupo — Cajeme (2012-2013) 4.0 3.5 3.0 • • 2.5 odn 2.0 1.5 Grupo 1.0 0.5 0.0 50 100 150 250 350 0 200 300

Día del año





Cajeme — 2013-2014

Días del ciclo: 172

ETc total [mm]: 717.7

ETverde total [mm]: 12.8

ETazul total [mm]: 704.8

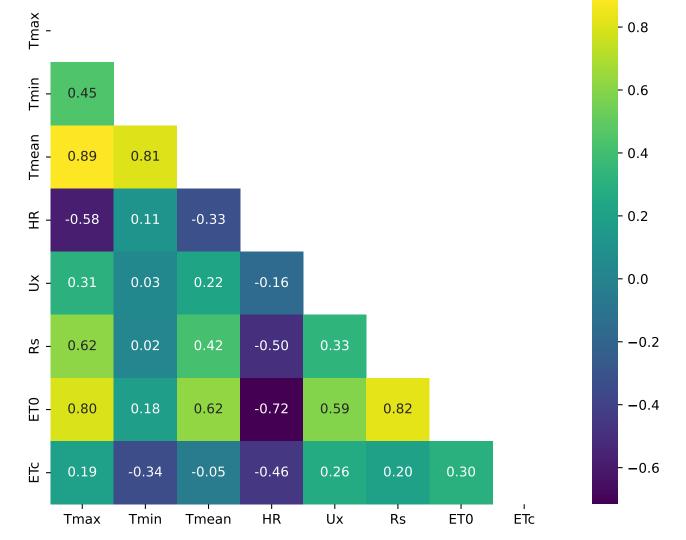
Tmax / Tmin [°C]: 40.5 / 8.6

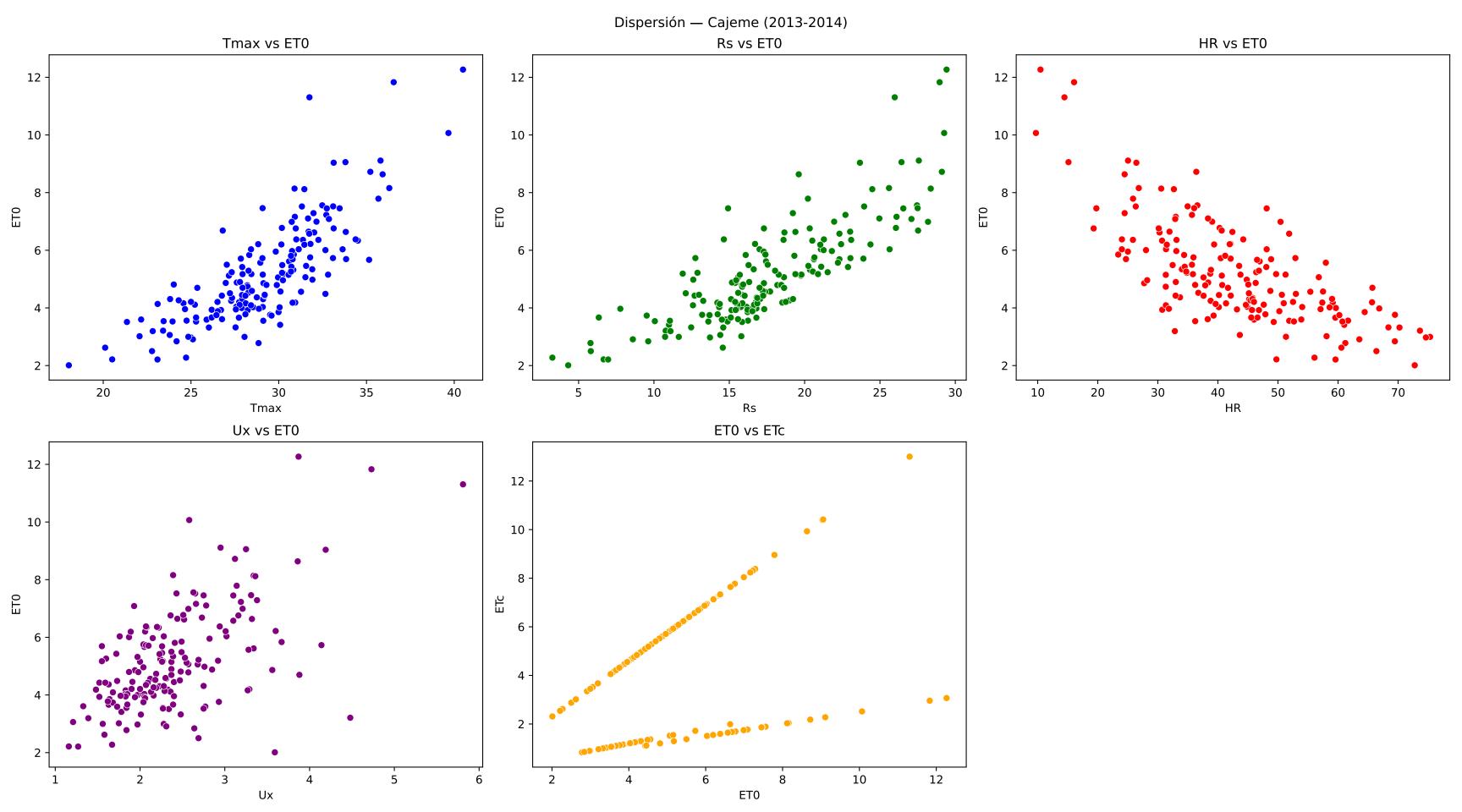
Cajeme — 2013-2014 · Resultados y métricas

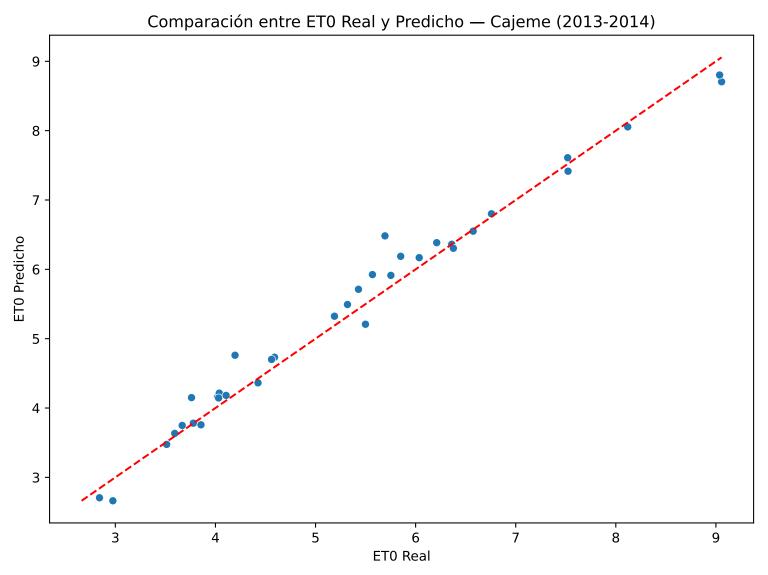
```
[Cajeme 2013-2014] Regresión Lineal ETO — R<sup>2</sup>: 0.9770 MSE: 0.0594
[Cajeme 2013-2014] Random Forest ETO - R^2: 0.9306 MSE: 0.1791
Importancias: {'Tmax': 0.25942570338047827, 'Tmin': 0.010646358083246965, 'HR': 0.1407155918983816, 'Ux':
0.09087690863510249, 'Rs': 0.4983354380027908}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                       mean
                                                                 mean
             mean
                                             mean
                                                                           mean
cluster
0
         30.470377 15.021698 37.134717 2.418302
                                                  19.256415 5.646922 6.493961
        25.522727 12.425682 45.205455 2.134773
                                                  15.057727 3.932463 4.103665
                                        2.239048
                                                  13.298810
         27.873810 17.888571 57.501667
                                                             3.848850 2.058489
         35.332857 15.901429 18.977143 4.121429
                                                  24.898571 9.988759 8.388863
         32.455385 17.237308 34.365000 2.644231 24.038077 7.254881 1.836394
```

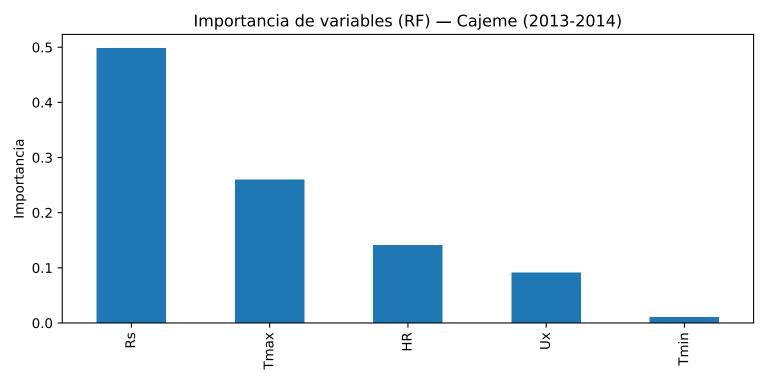
Cajeme — 2013-2014

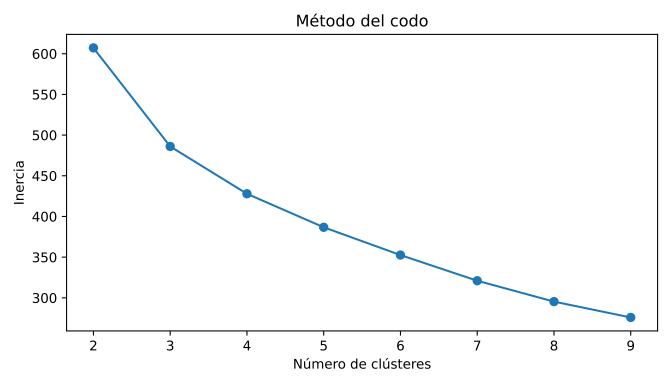
Matriz de Correlación entre Variables Meteorológicas



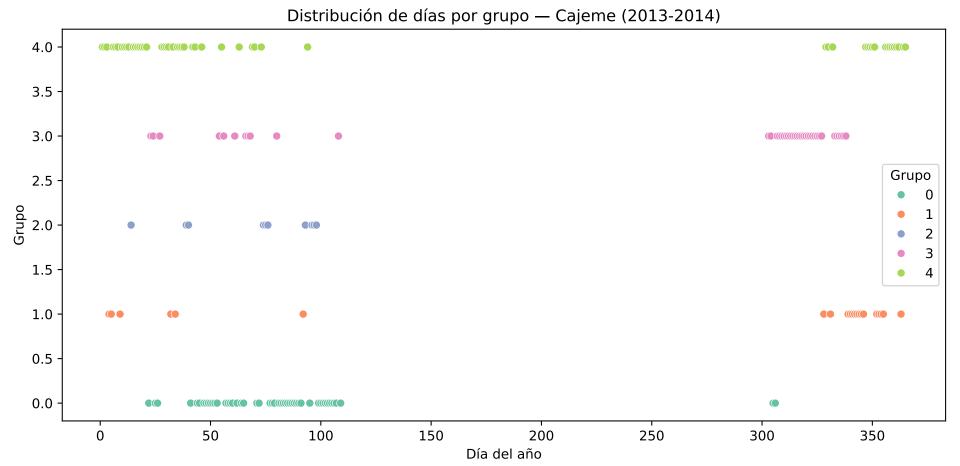


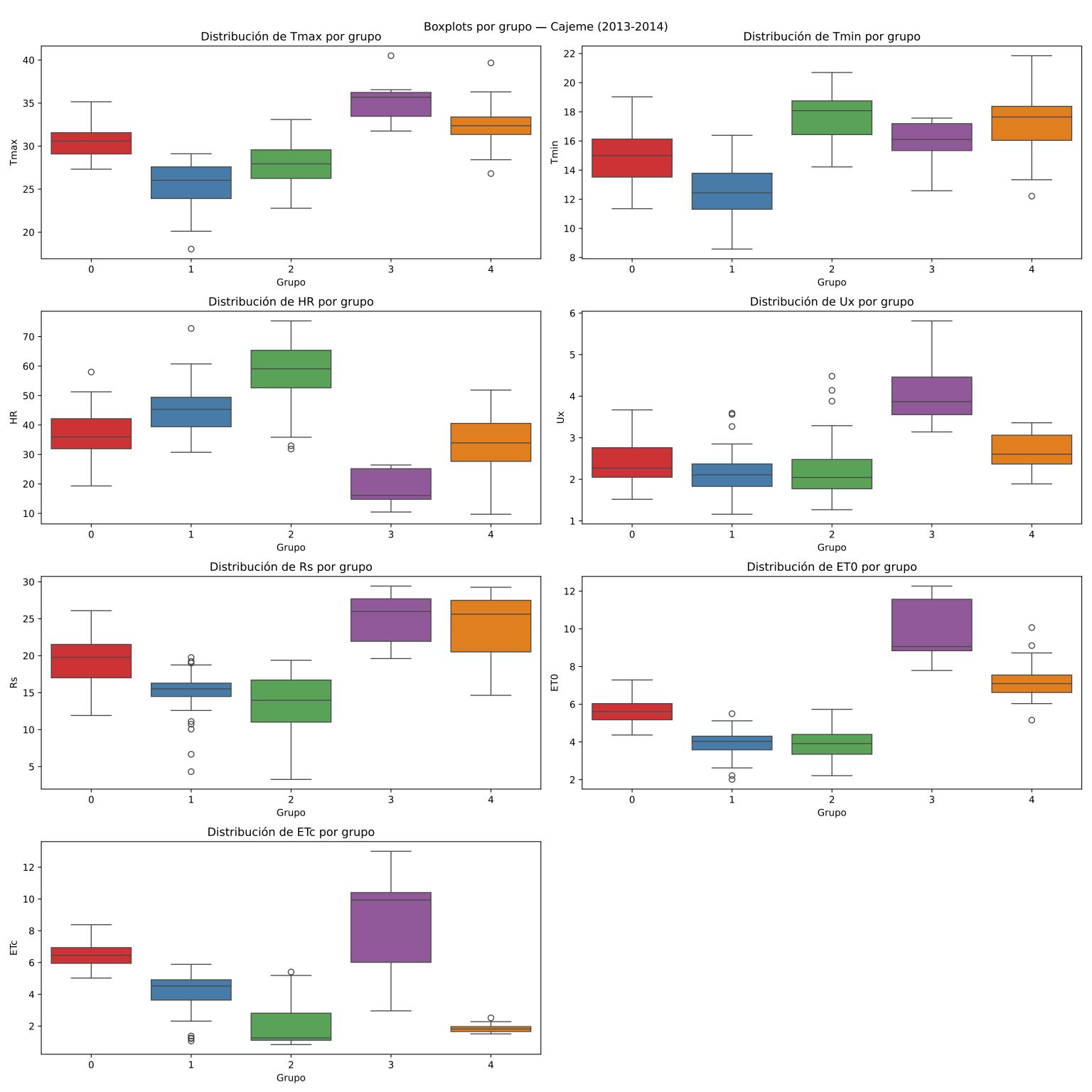


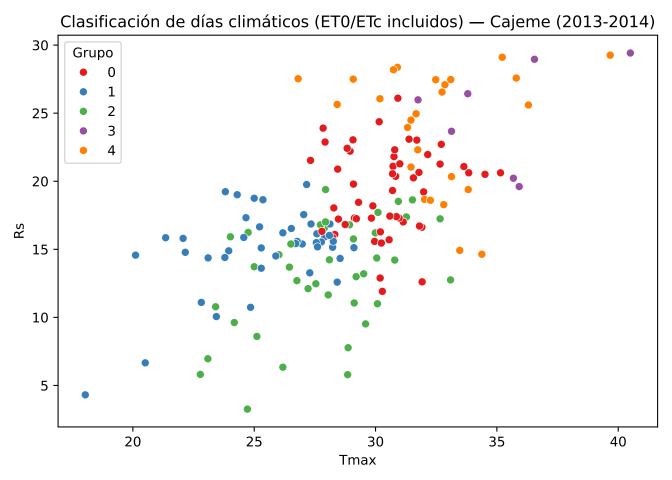




Clasificación de días climáticos — Cajeme (2013-2014) Grupo 2[']5 Tmax







Cajeme — 2014-2015

Días del ciclo: 172

ETc total [mm]: 639.2

ETverde total [mm]: 29.9

ETazul total [mm]: 609.2

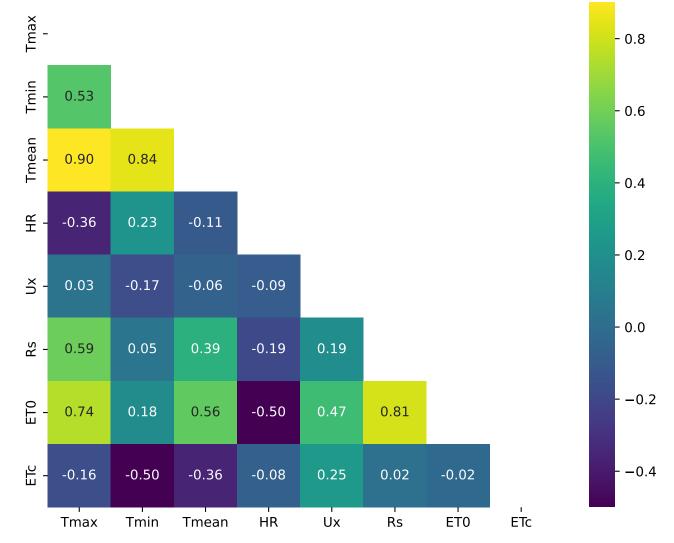
Tmax / Tmin [°C]: 37.4 / 6.6

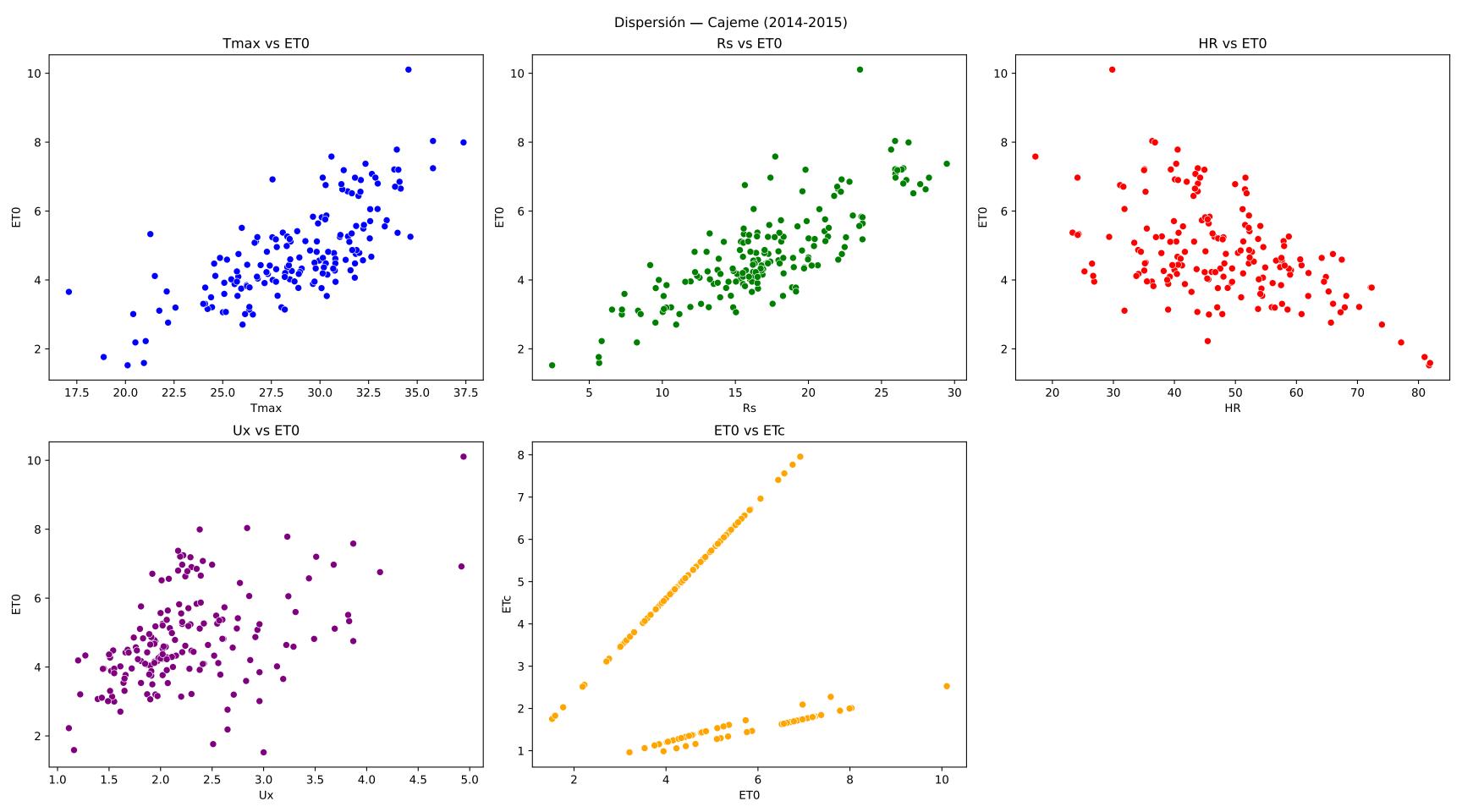
Cajeme — 2014-2015 · Resultados y métricas

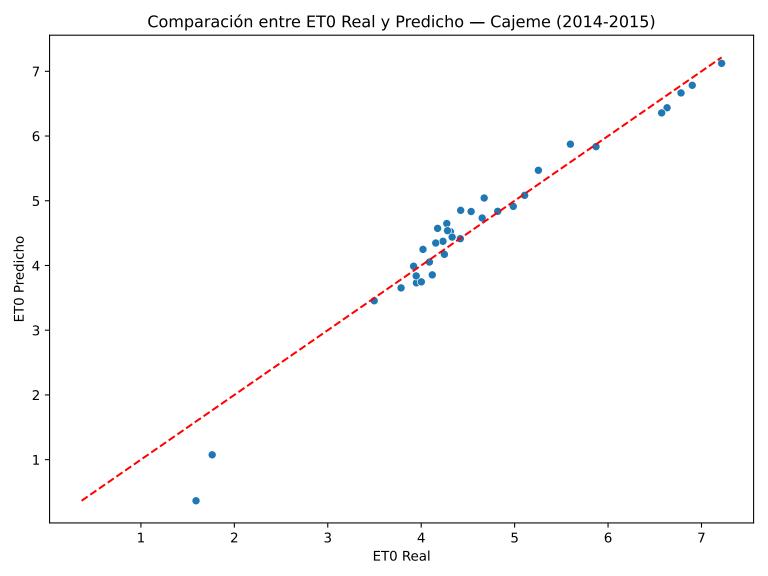
```
[Cajeme 2014-2015] Regresión Lineal ETO — R<sup>2</sup>: 0.9334 MSE: 0.0970
[Cajeme 2014-2015] Random Forest ETO - R^2: 0.9345 MSE: 0.0953
Importancias: {'Tmax': 0.26152709851155387, 'Tmin': 0.028442203981008985, 'HR': 0.10403079401312752, 'Ux':
0.09445201719520308, 'Rs': 0.5115478862991065}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                       mean
                                                                 mean
                                                                           mean
             mean
                                             mean
cluster
0
        24.351429 15.320857 60.300000 2.094286
                                                  11.749429
                                                             3.183709 3.357372
        30.466571 18.117714 47.040000 1.949714
                                                  15.716857
                                                            4.544037 1.500426
                   10.861500 31.495000
                                        2.948500
                                                  16.437000
        26.498000
                                                             5.199916 5.138241
        29.374407 15.228136 48.436780 2.241017
                                                  18.054576 4.793041 5.511997
        33.196957 17.935217 41.901739 2.487391 25.408696 7.157951 1.789488
```

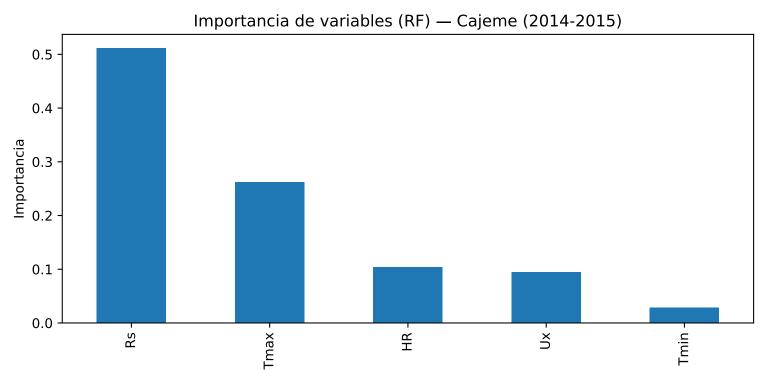
Cajeme — 2014-2015

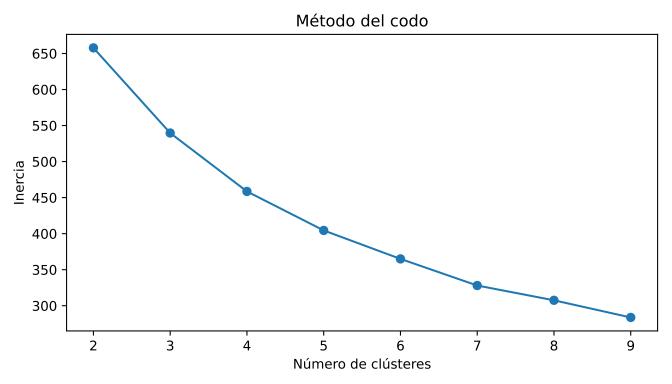
Matriz de Correlación entre Variables Meteorológicas









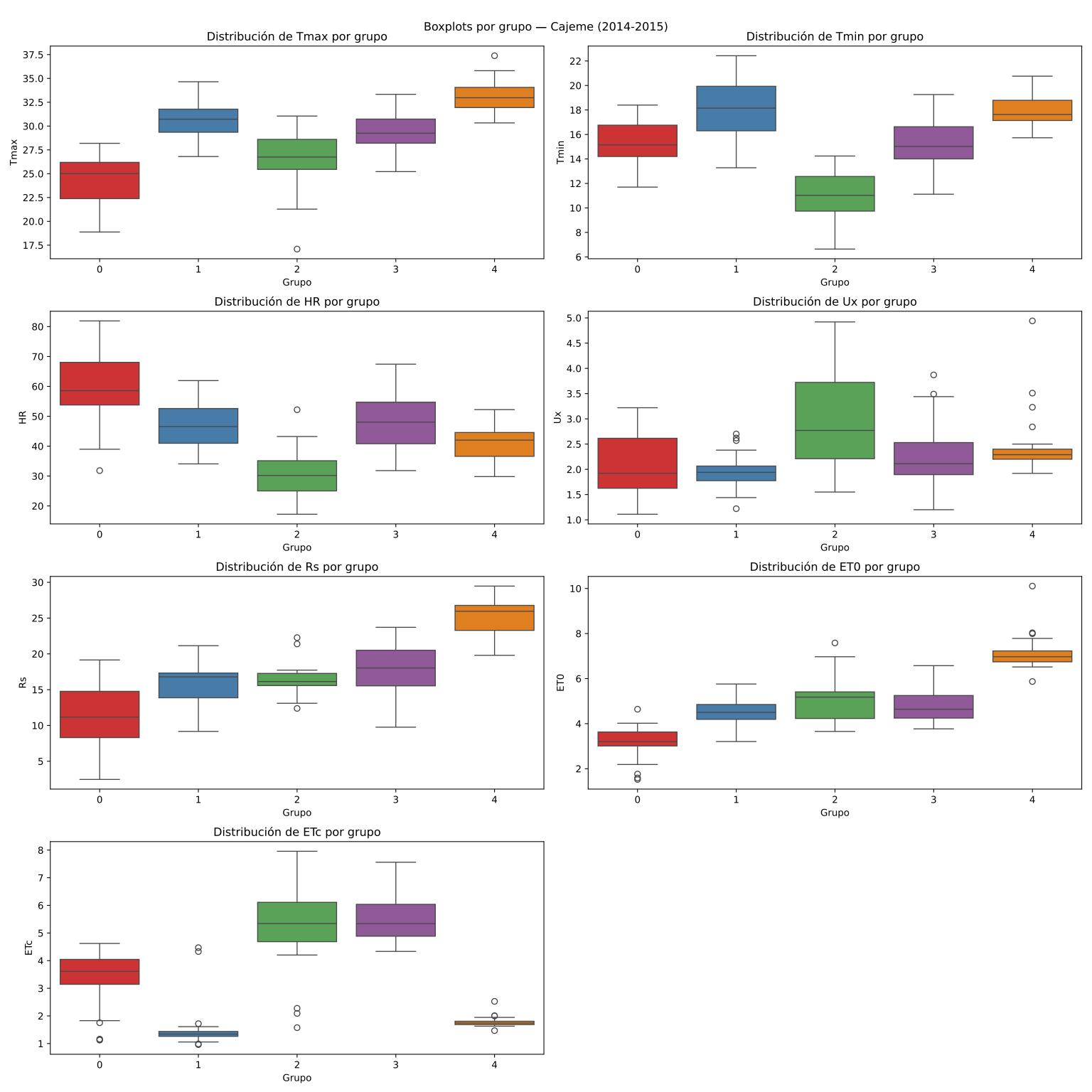


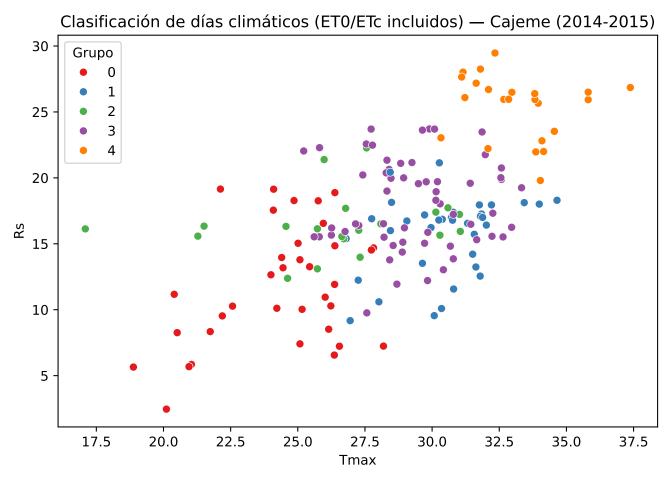
Clasificación de días climáticos — Cajeme (2014-2015) 30 Grupo 25 20 Rs15 10 5 17.5 20.0 22.5 25.0 30.0 32.5 35.0 37.5 27.5

Tmax

Distribución de días por grupo — Cajeme (2014-2015) 4.0 3.5 3.0 2.5 9.0 dr. 2.0 -1.5 Grupo 1.0 0.5 -0.0 -50 150 250 0 100 200 300 350

Día del año





Cajeme — 2015-2016

Días del ciclo: 173

ETc total [mm]: 722.5

ETverde total [mm]: 19.2

ETazul total [mm]: 703.4

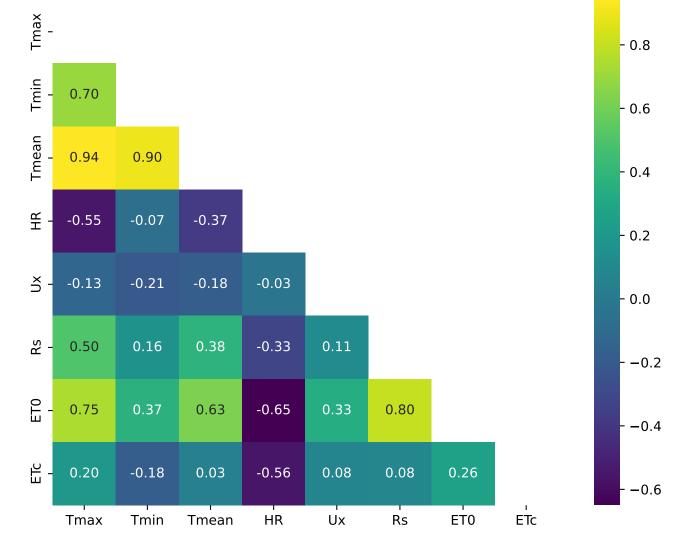
Tmax / Tmin [°C]: 36.1 / 4.3

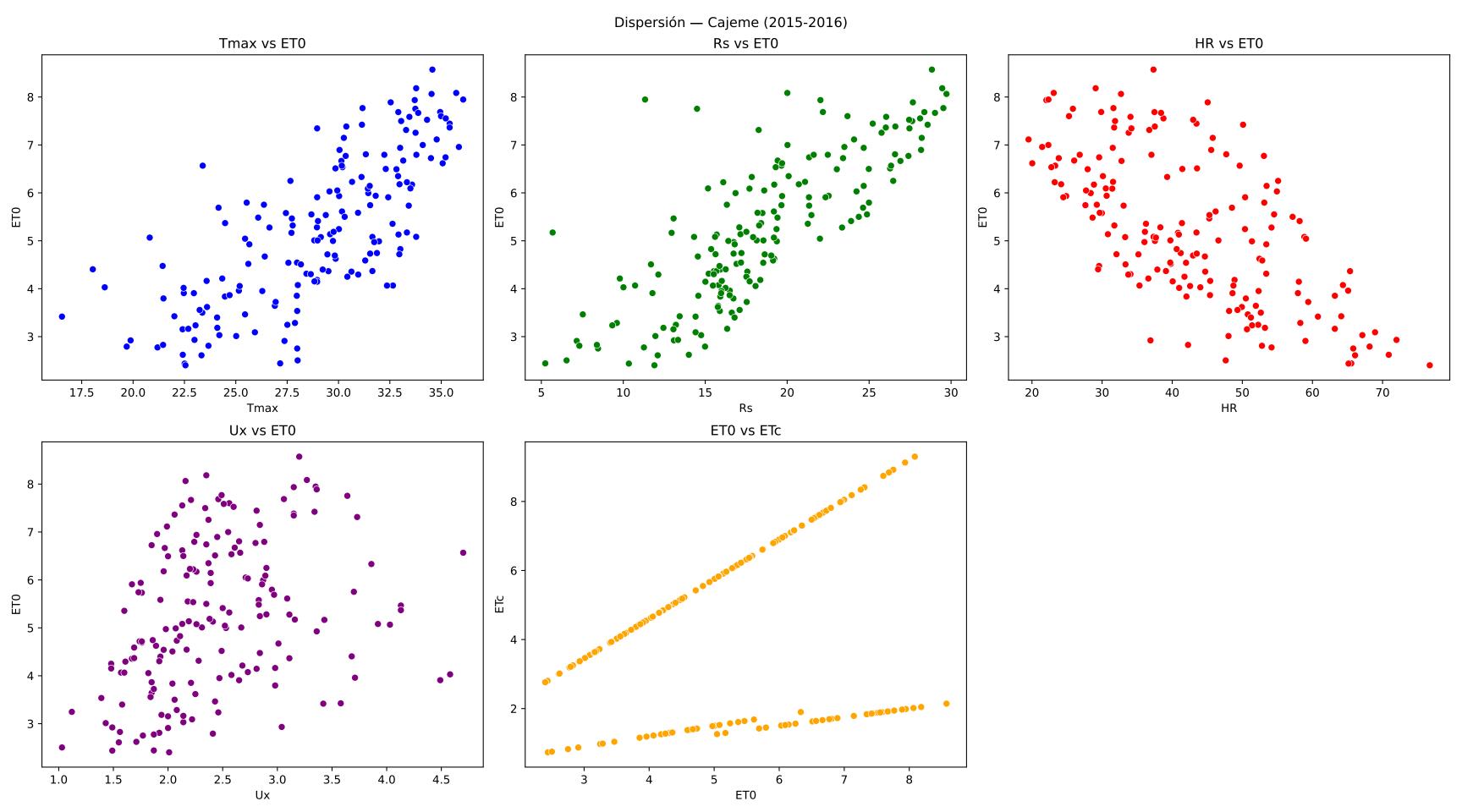
Cajeme — 2015-2016 · Resultados y métricas

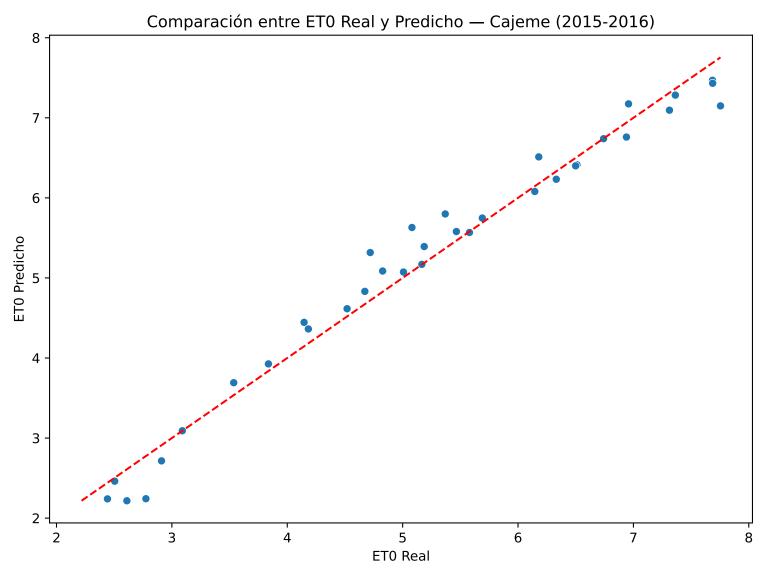
```
[Cajeme 2015-2016] Regresión Lineal ETO — R<sup>2</sup>: 0.9725 MSE: 0.0697
[Cajeme 2015-2016] Random Forest ETO - R^2: 0.8446 MSE: 0.3934
Importancias: {'Tmax': 0.1721053724248509, 'Tmin': 0.014146585524380082, 'HR': 0.12134606381958685, 'Ux':
0.0373123565012711, 'Rs': 0.655089621729911}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                             ETc
             Tmax
                        Tmin
                                               Ux
                                                          Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                           mean
             mean
                                             mean
cluster
0
        23.462069 11.702069 55.630345 1.993793
                                                   13.979310 3.210516 3.692093
        25.524118
                   10.588529 42.421765 3.121765
                                                  17.157647
                                                             4.866956 4.918212
                   16.832778 48.730278
                                         2.090278
                                                   14.536944
                                                             4.268500 1.964700
        29.595000
                              30.536739 2.367826
                                                  20.084565
                                                             6.320436 7.113002
        32.625870 16.051739
                   16.419286 42.041786 2.649286
                                                  26.968929 7.148271 1.797089
        31.688929
```

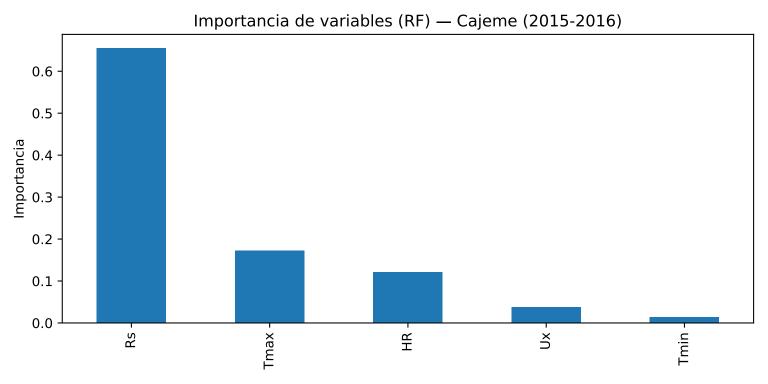
Cajeme — 2015-2016

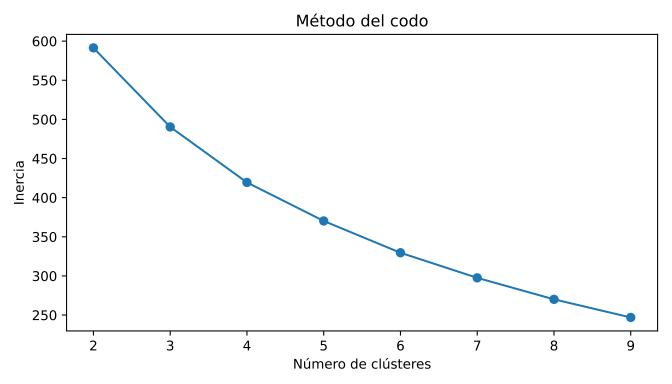
Matriz de Correlación entre Variables Meteorológicas



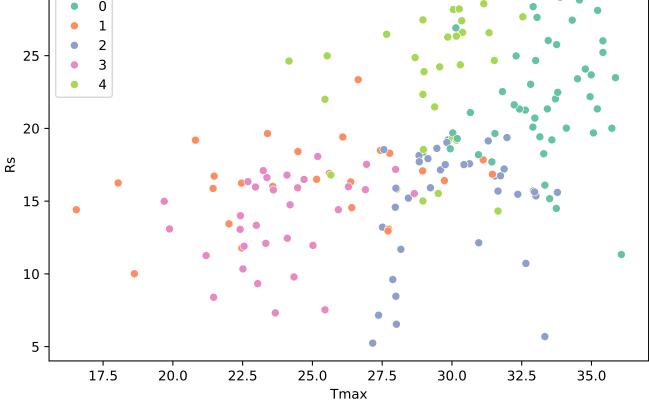


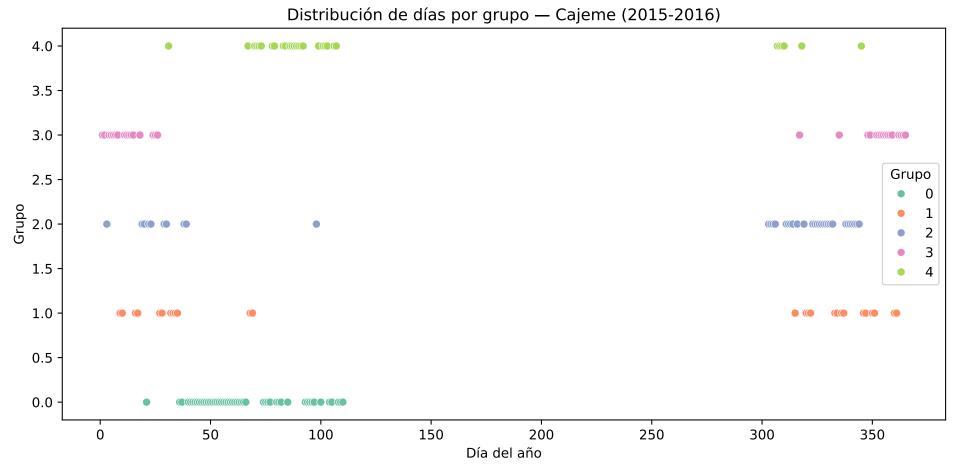


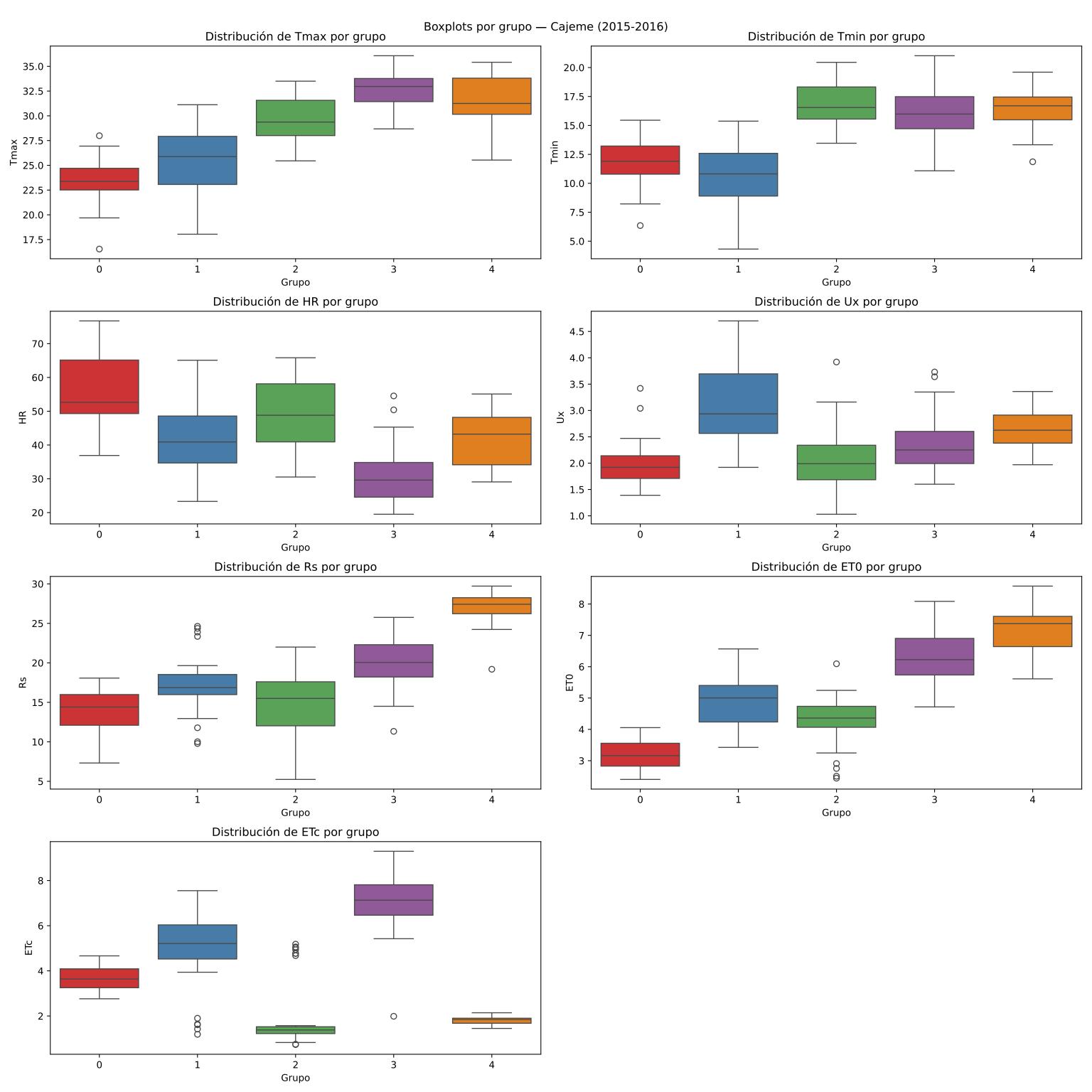


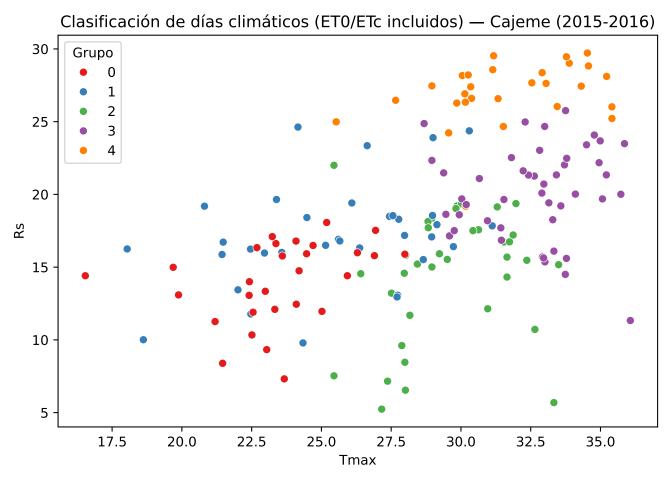


Clasificación de días climáticos — Cajeme (2015-2016) Grupo









Cajeme — 2016-2017

Días del ciclo: 172

ETc total [mm]: 691.7

ETverde total [mm]: 14.5

ETazul total [mm]: 677.2

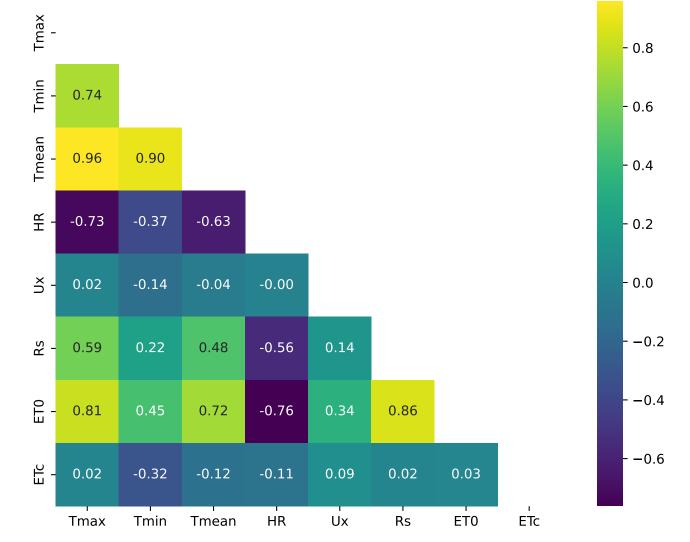
Tmax / Tmin [°C]: 41.1 / 8.2

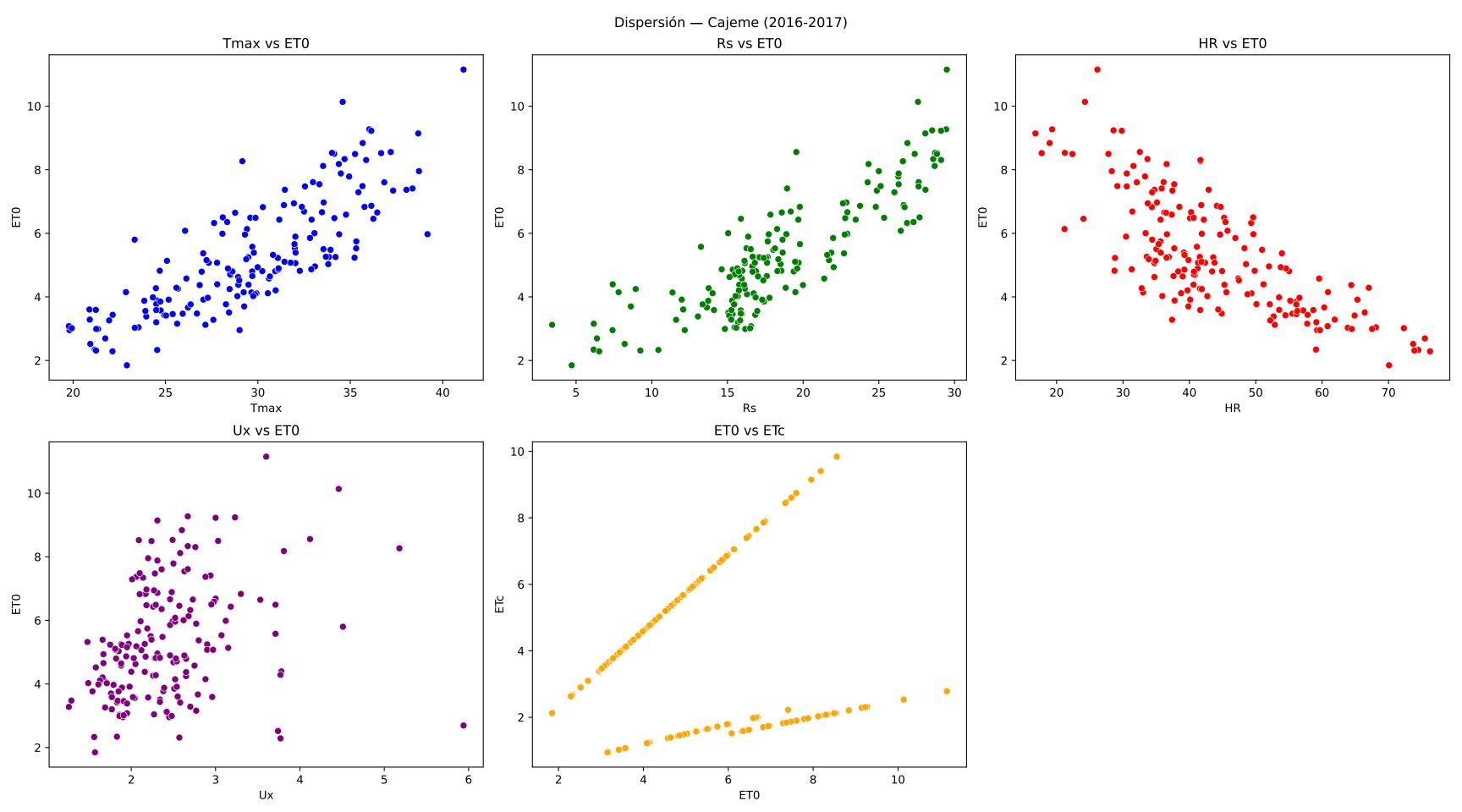
Cajeme — 2016-2017 · Resultados y métricas

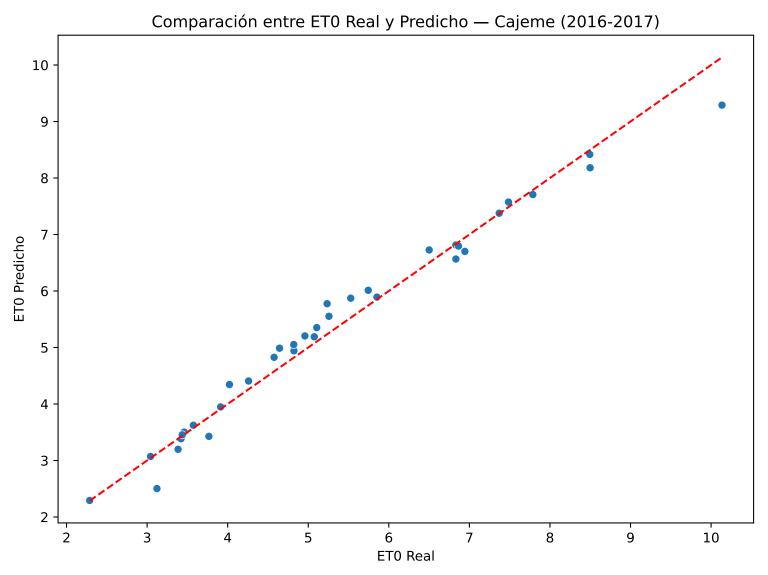
```
[Cajeme 2016-2017] Regresión Lineal ETO — R<sup>2</sup>: 0.9771 MSE: 0.0755
[Cajeme 2016-2017] Random Forest ET0 - R^2: 0.9590 MSE: 0.1353
Importancias: {'Tmax': 0.18476130409537822, 'Tmin': 0.013099171842860132, 'HR': 0.1264957717327801, 'Ux':
0.03764197060887992, 'Rs': 0.6380017817201017}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                            ETc
             Tmax
                        Tmin
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                           mean
             mean
                                             mean
cluster
0
        28.578409 14.486818 41.164318 2.050682
                                                   16.814545
                                                            4.594801 5.284021
        32.833793 19.399655 42.628966 2.213448
                                                   16.010345
                                                             5.154154 1.741295
        23.689048 13.078571 61.125476 2.475238
                                                  13.721429
                                                             3.335725 3.630598
        33.015200 15.479200
                              36.729600 2.812400
                                                   21.631200 6.699662 7.704612
        33.327188 17.352812 32.951875 2.720000
                                                  27.056875 7.909272 1.987763
```

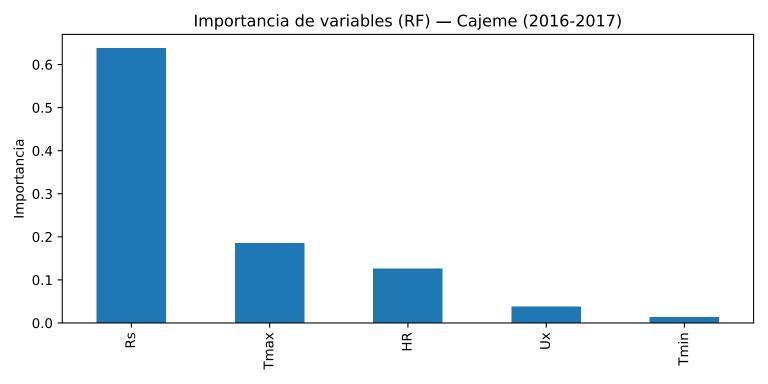
Cajeme — 2016-2017

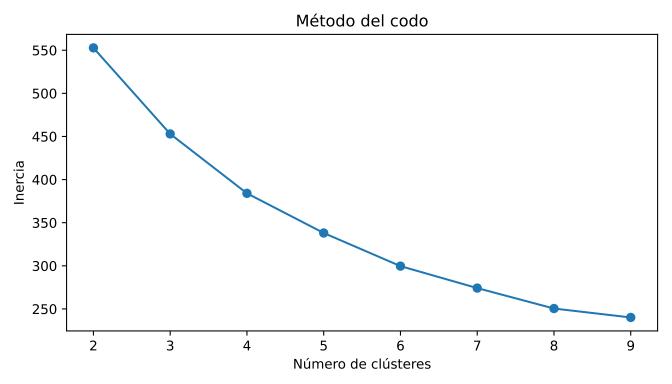
Matriz de Correlación entre Variables Meteorológicas





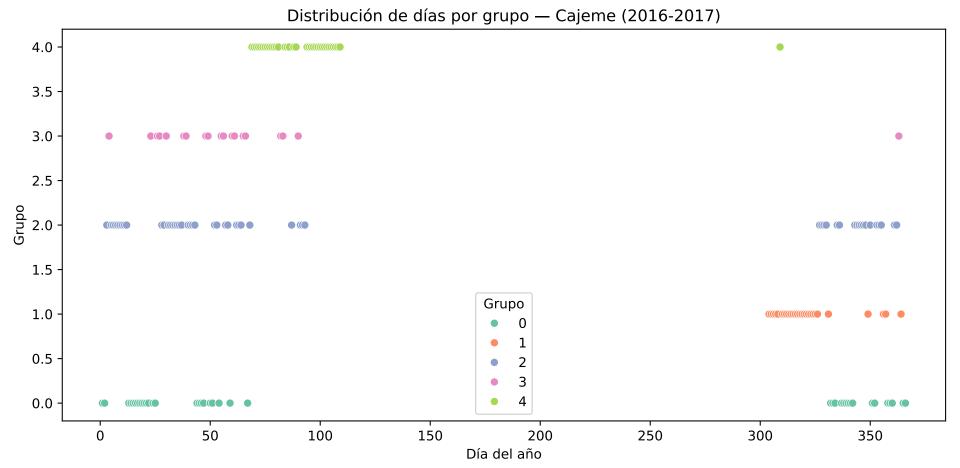


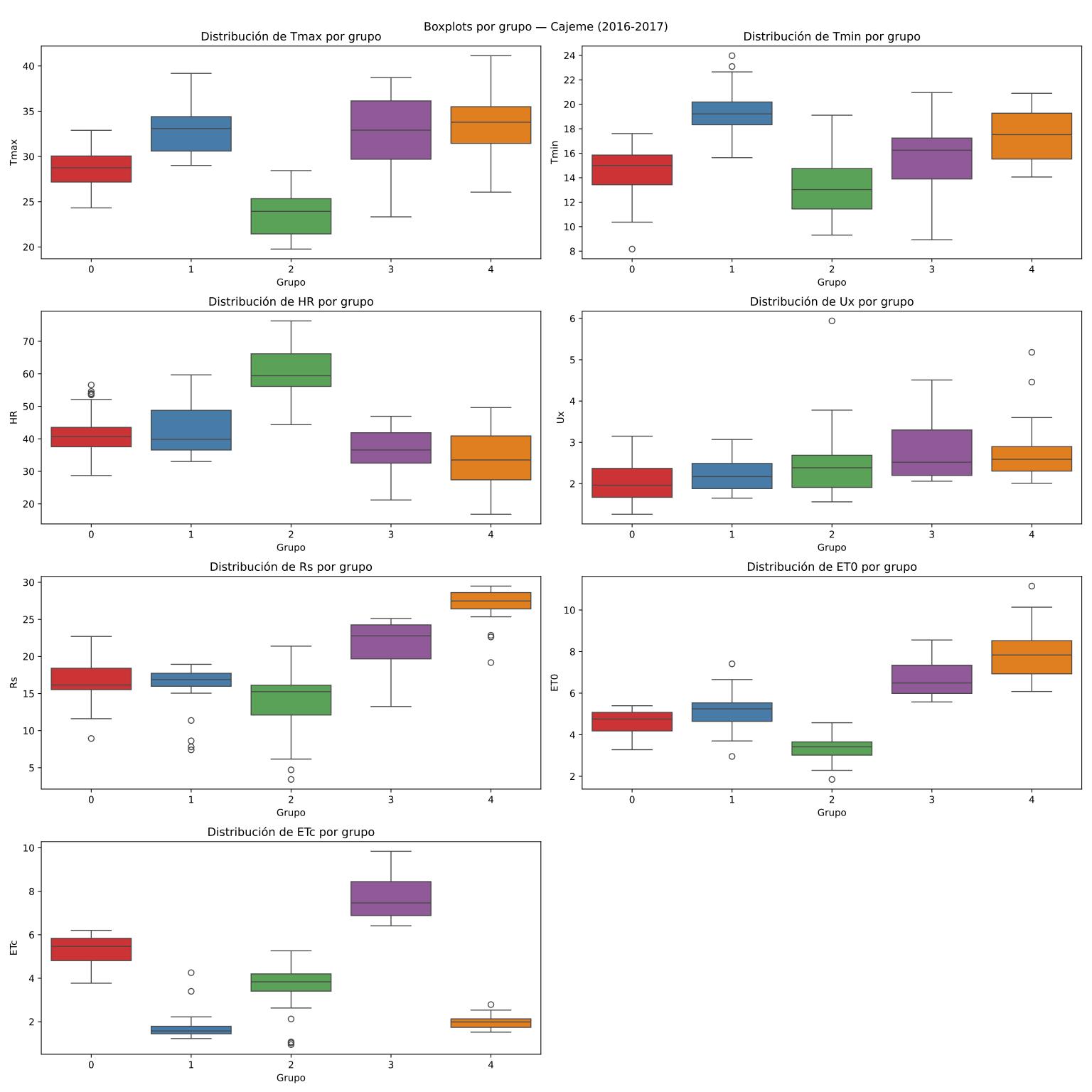


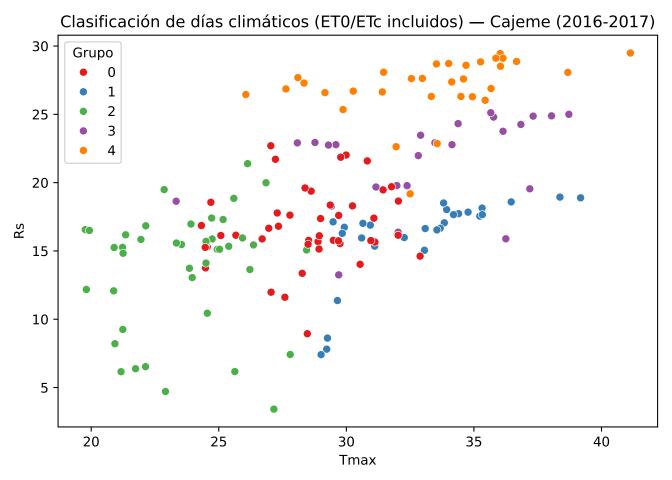


Clasificación de días climáticos — Cajeme (2016-2017) Grupo 15 -. 25

Tmax







Cajeme — 2017-2018

Días del ciclo: 172

ETc total [mm]: 697.3

ETverde total [mm]: 16.1

ETazul total [mm]: 681.2

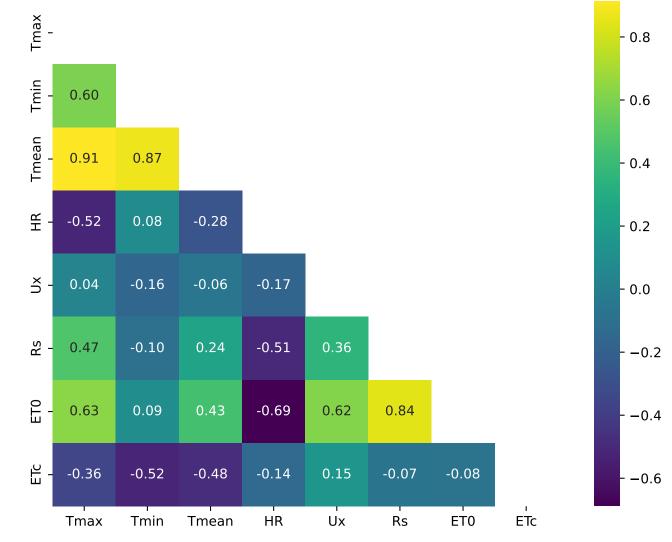
Tmax / Tmin [°C]: 38.8 / 7.8

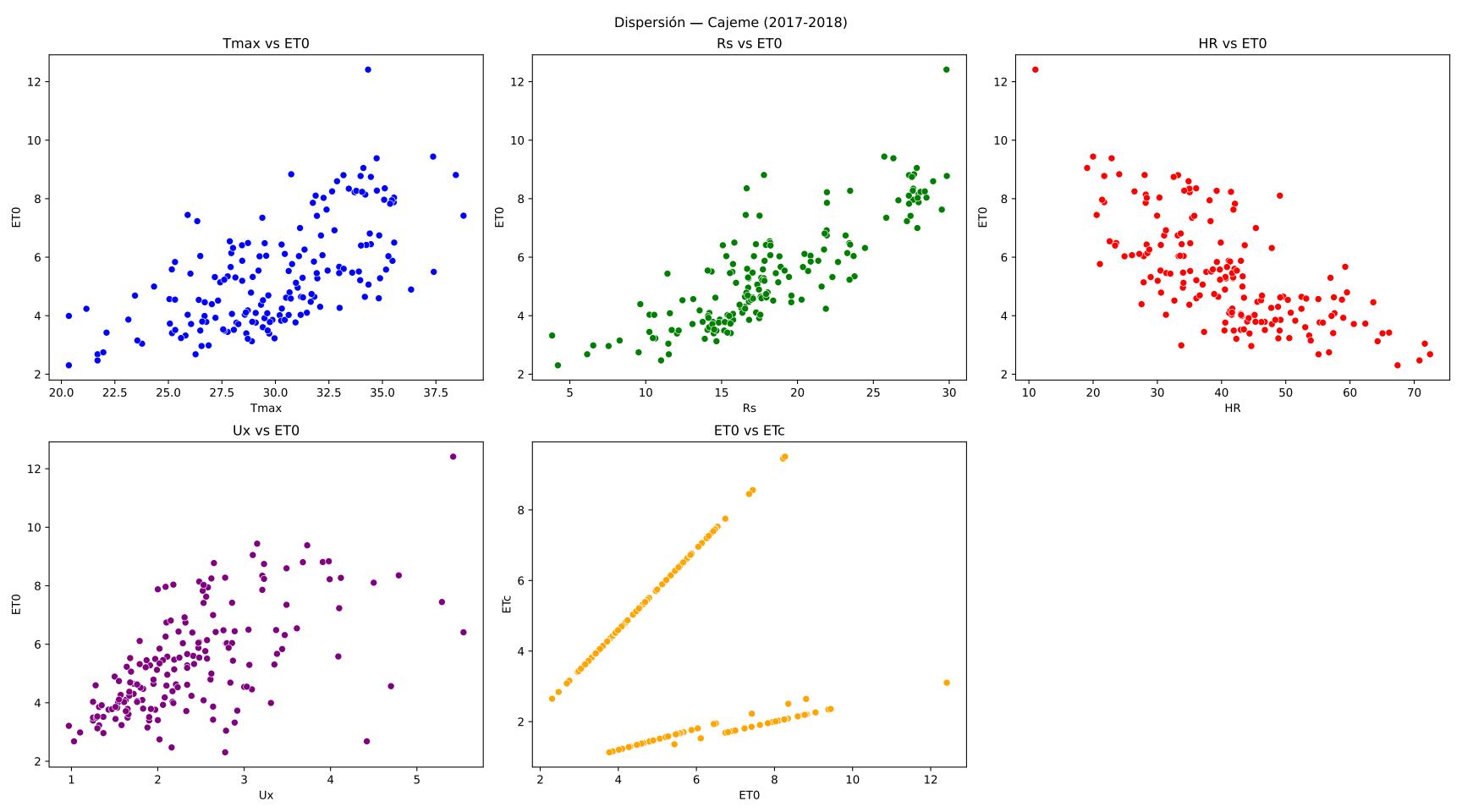
Cajeme — 2017-2018 · Resultados y métricas

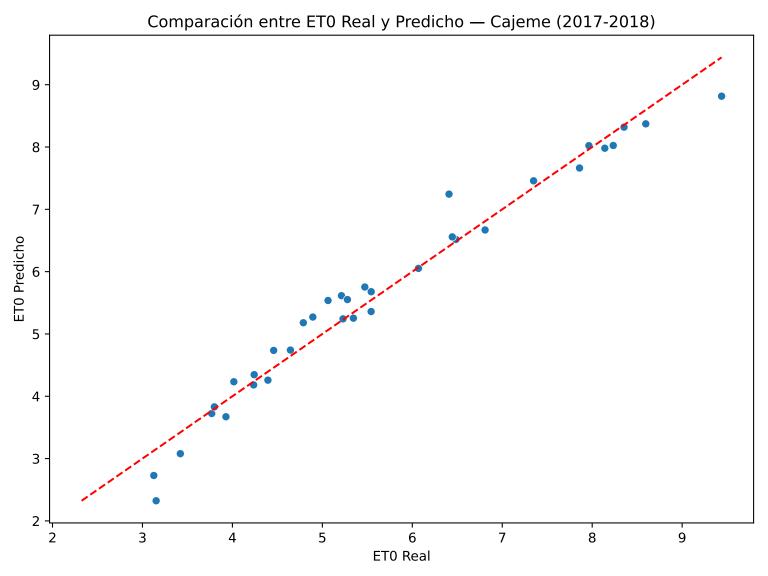
```
[Cajeme 2017-2018] Regresión Lineal ETO — R<sup>2</sup>: 0.9662 MSE: 0.0968
[Cajeme 2017-2018] Random Forest ET0 - R^2: 0.8669 MSE: 0.3813
Importancias: {'Tmax': 0.06802478434448887, 'Tmin': 0.01710745973873314, 'HR': 0.1128245421959433, 'Ux':
0.0773587779806358, 'Rs': 0.7246844357401989}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                       mean
                                                                 mean
                                                                           mean
             mean
                                             mean
cluster
0
        28.828519 16.382778 44.299074 1.703519
                                                   14.163519 3.971012 4.415331
        23.620526 13.411053 58.994211 2.833158
                                                  13.468947
                                                            3.625881 4.169763
                   19.019063 42.259062 2.138125
                                                  17.493750
        33.533125
                                                             5.357920 1.565838
        33.680357 16.857500 31.043571 3.174643
                                                  26.877857 8.405526 2.132031
        29.327436 13.179744 33.790256 2.802051 20.089744 6.016618 6.919110
```

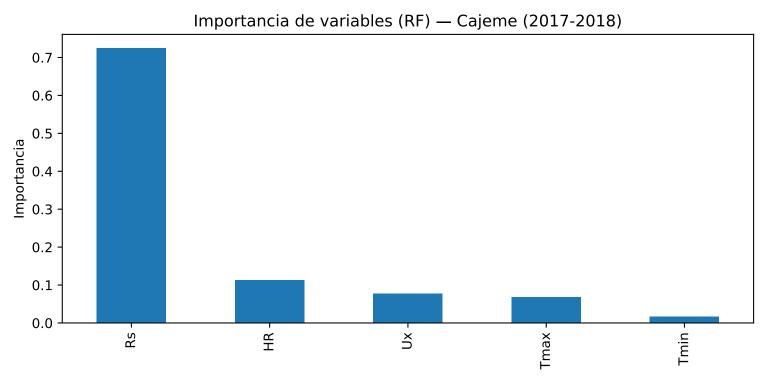
Cajeme — 2017-2018

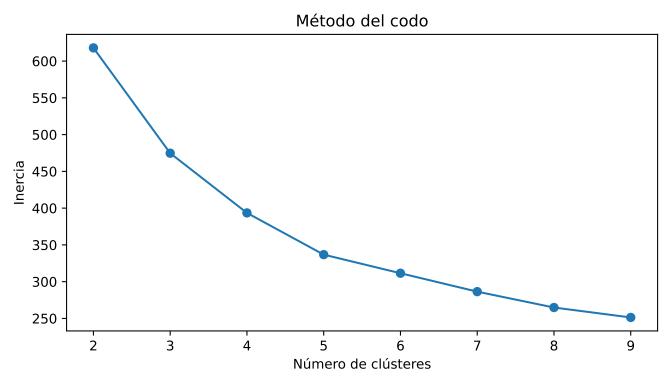
Matriz de Correlación entre Variables Meteorológicas



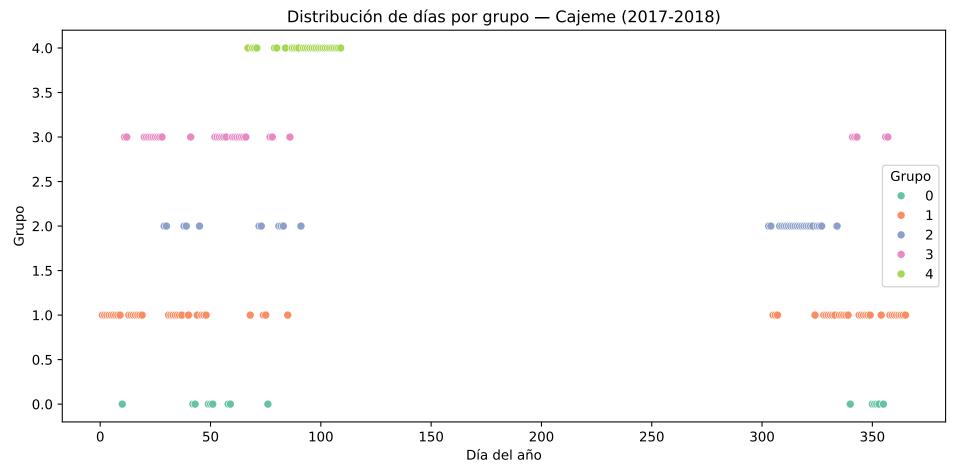


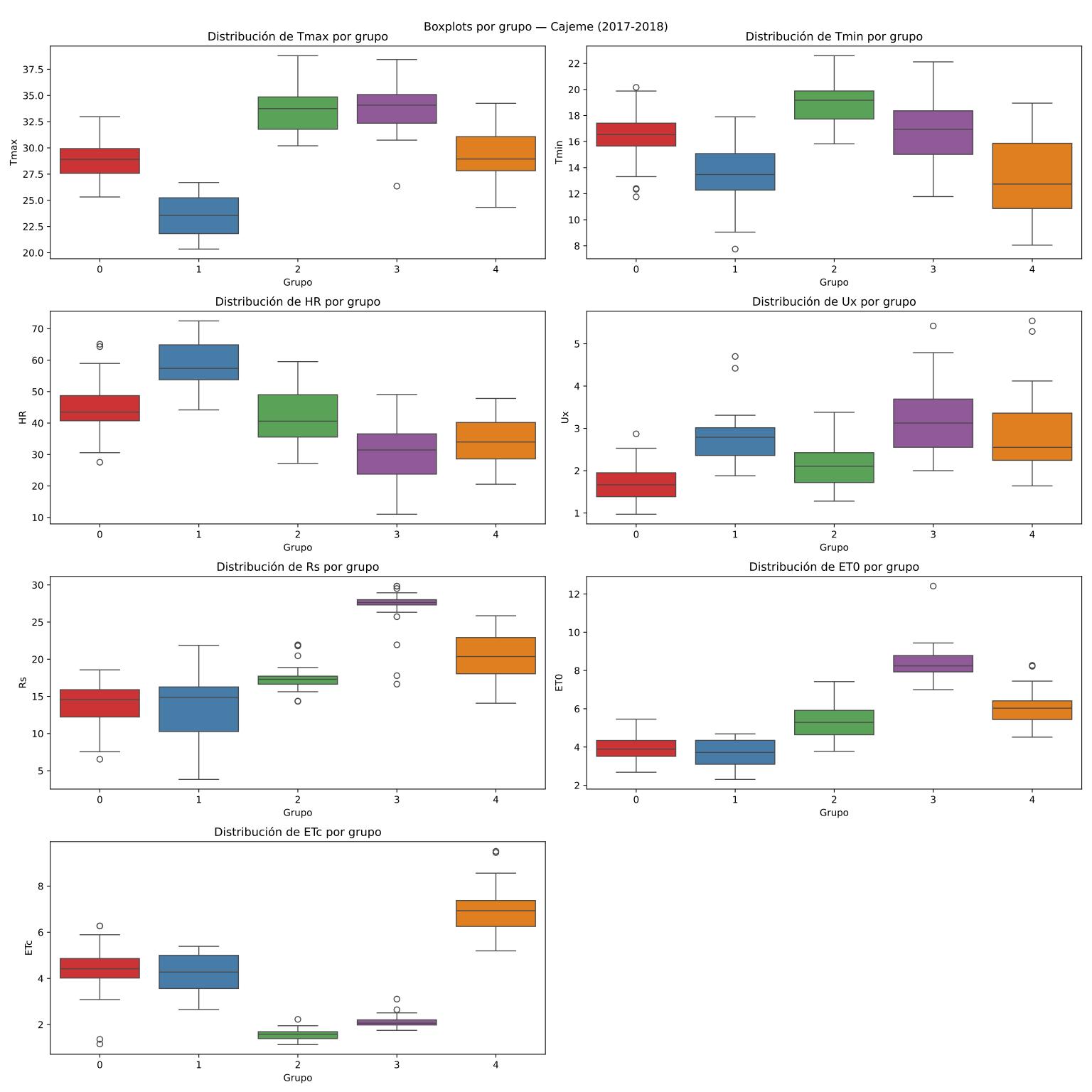


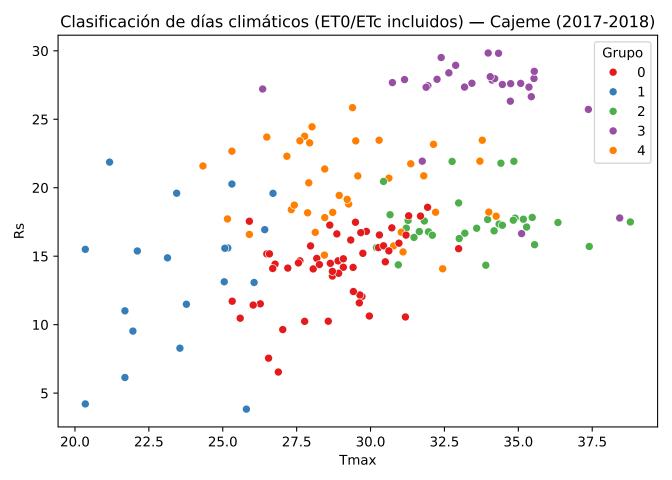




Clasificación de días climáticos — Cajeme (2017-2018) 30 Grupo 25 20 15 10 5 20.0 22.5 25.0 27.5 32.5 35.0 37.5 30.0 Tmax







Cajeme — 2018-2019

Días del ciclo: 172

ETc total [mm]: 626.6

ETverde total [mm]: 20.8

ETazul total [mm]: 605.8

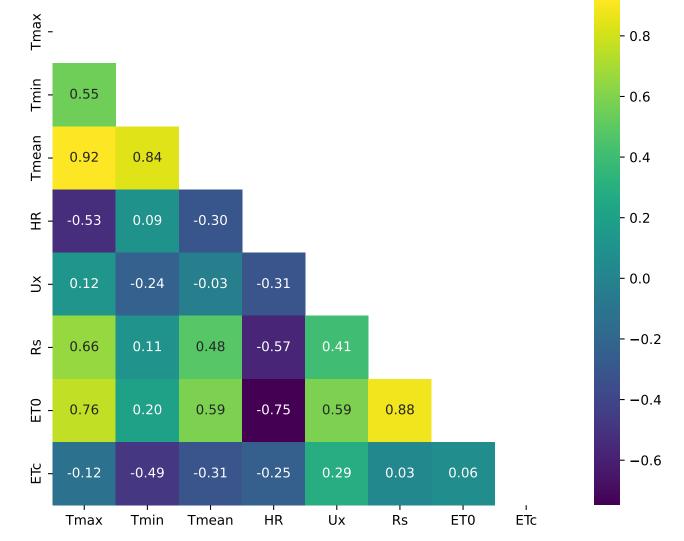
Tmax / Tmin [°C]: 38.5 / 4.6

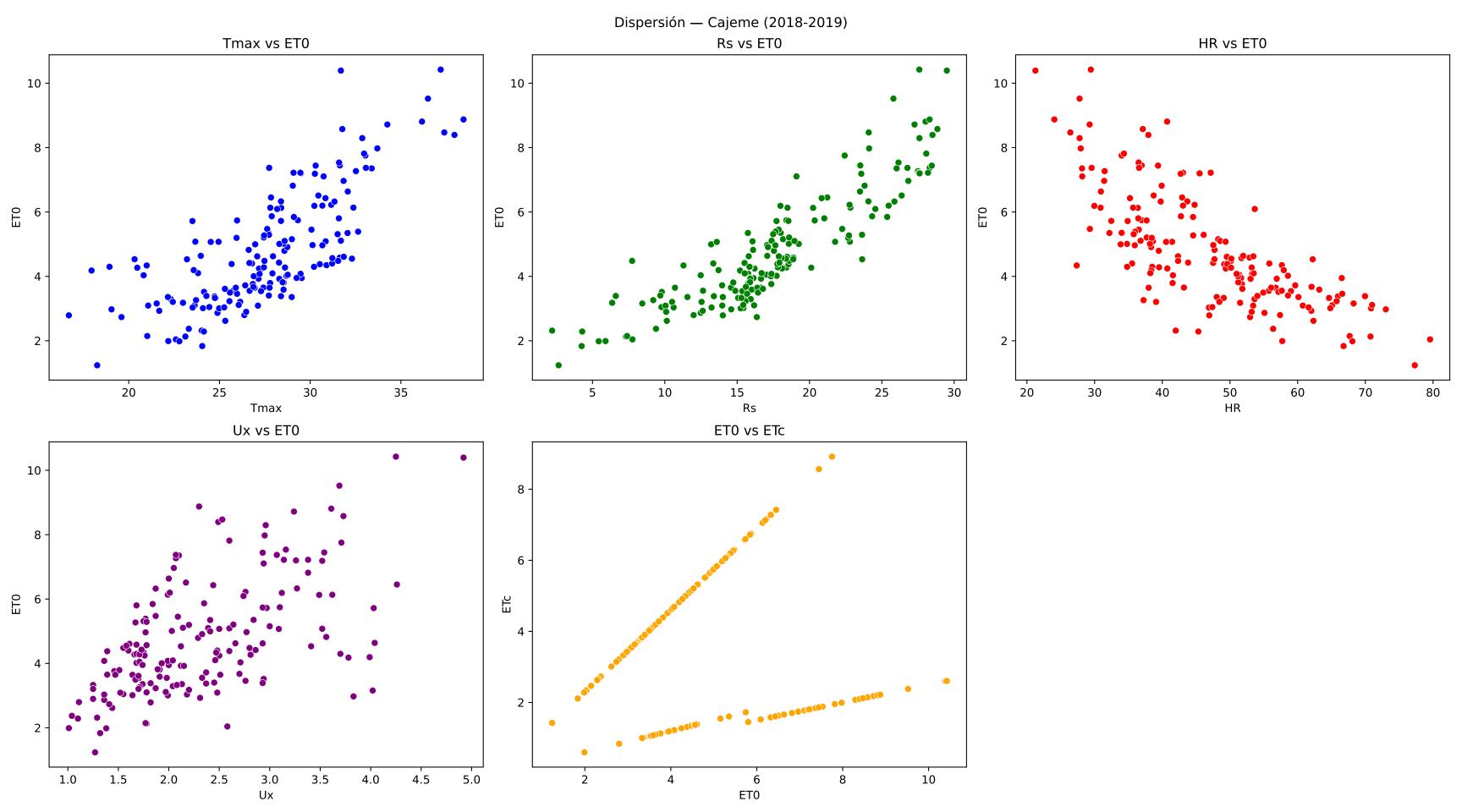
Cajeme — 2018-2019 · Resultados y métricas

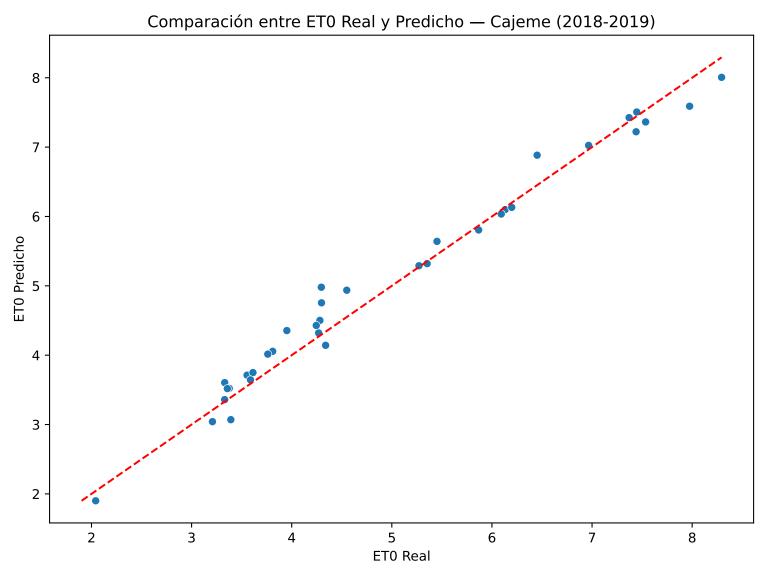
```
[Cajeme 2018-2019] Regresión Lineal ETO — R<sup>2</sup>: 0.9774 MSE: 0.0604
[Cajeme 2018-2019] Random Forest ETO - R^2: 0.9679 MSE: 0.0858
Importancias: {'Tmax': 0.09452806234303966, 'Tmin': 0.01707482827585871, 'HR': 0.06207751383824195, 'Ux':
0.06407554630732715, 'Rs': 0.7622440492355326}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                             ETc
             Tmax
                        Tmin
                                               Ux
                                                          Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                            mean
             mean
                                             mean
cluster
0
        32.409333 16.287000 34.728333 2.918667
                                                   26.290000 7.743406 1.935851
                                                             3.086140 3.451508
        24.827083 14.241042 57.834167 1.903542
                                                   11.626875
2
                   9.582500 45.699167
                                         2.848333
                                                   16.764583
                                                             4.248005 4.695626
        22.755833
                   16.795000
                              53.645000 1.736786
                                                  16.676786
                                                             4.070591 1.210816
        28.994643
        28.978571 13.472857 39.458810 2.514286
                                                  18.981905 5.405798 6.100405
```

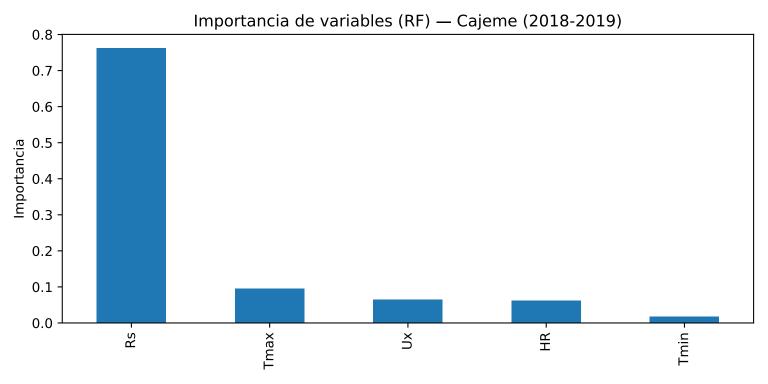
Cajeme — 2018-2019

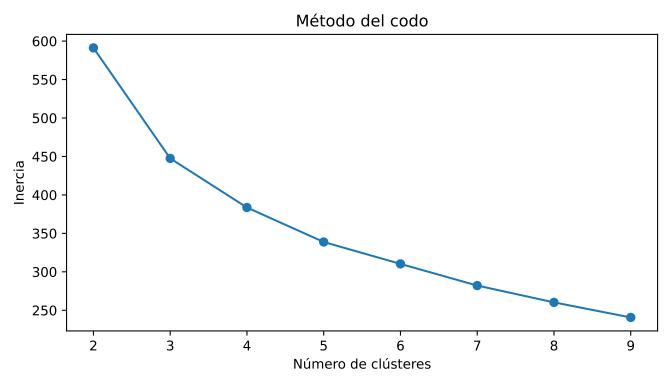
Matriz de Correlación entre Variables Meteorológicas





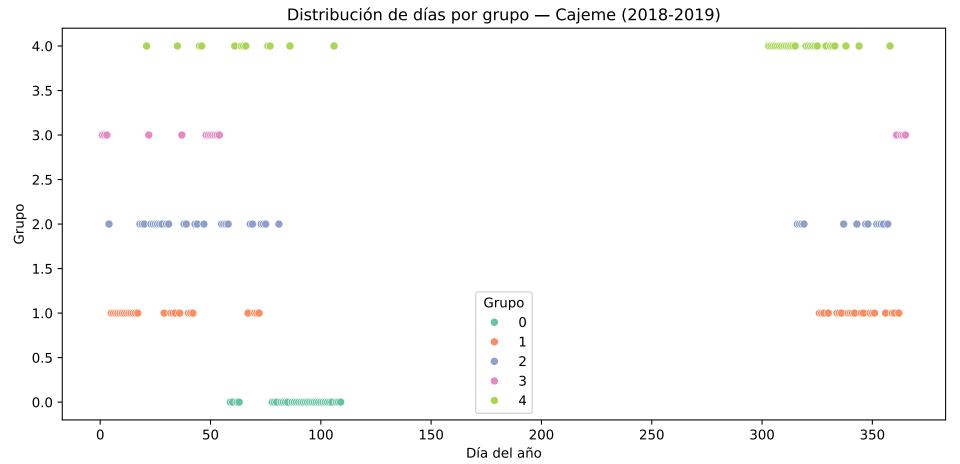


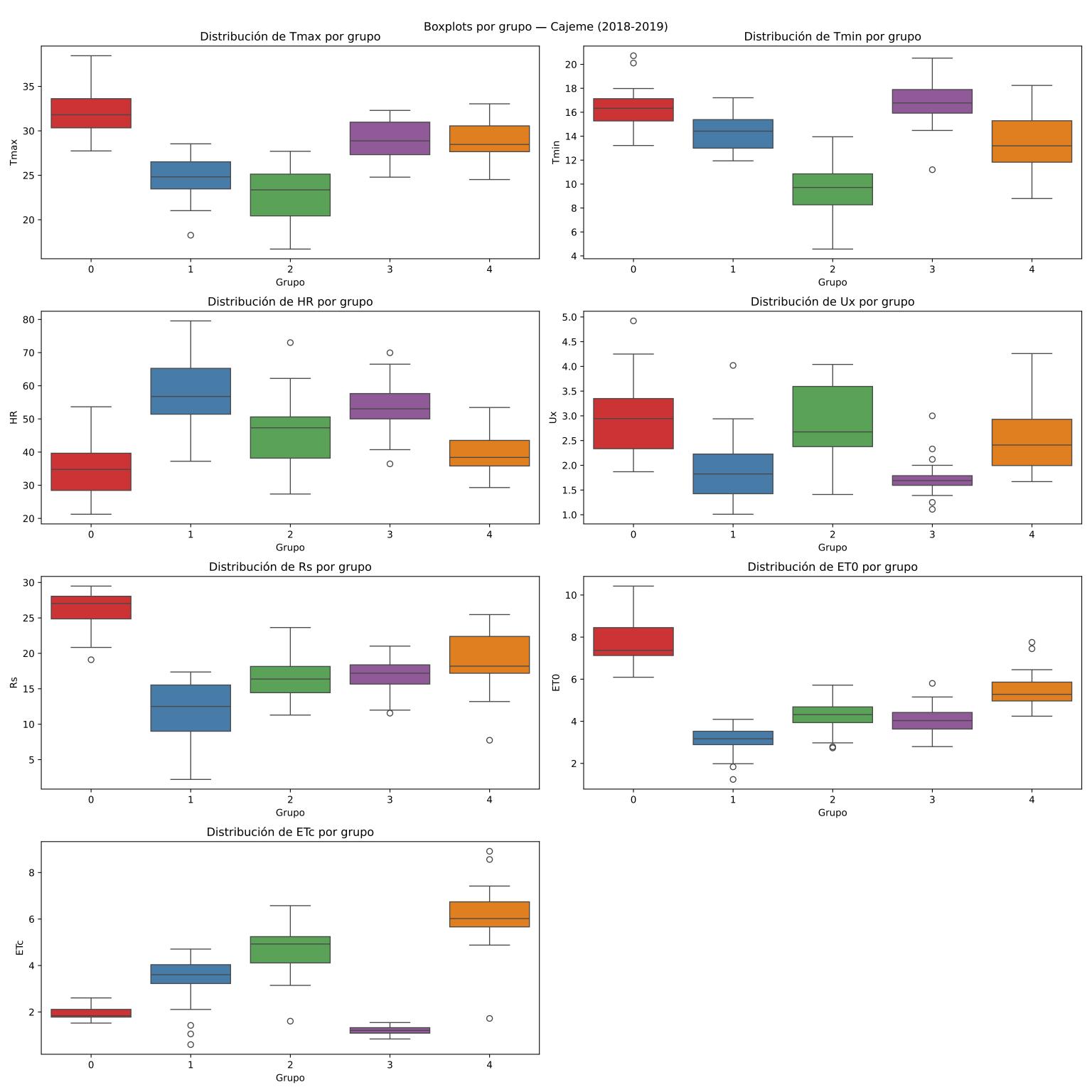


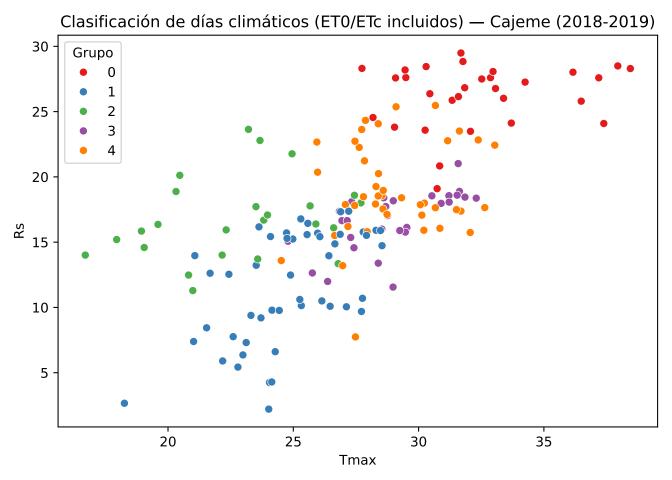


Clasificación de días climáticos — Cajeme (2018-2019) Grupo د 15 ا

Tmax







Cajeme — 2019-2020

Días del ciclo: 172

ETc total [mm]: 583.5

ETverde total [mm]: 32.8

ETazul total [mm]: 550.7

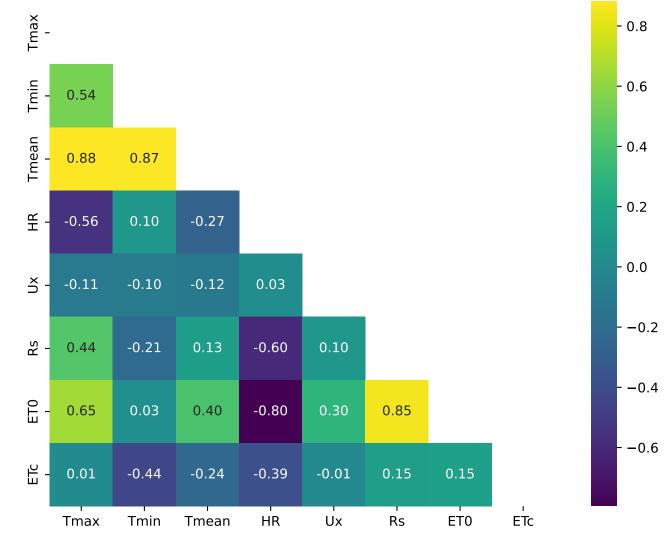
Tmax / Tmin [°C]: 35.0 / 4.3

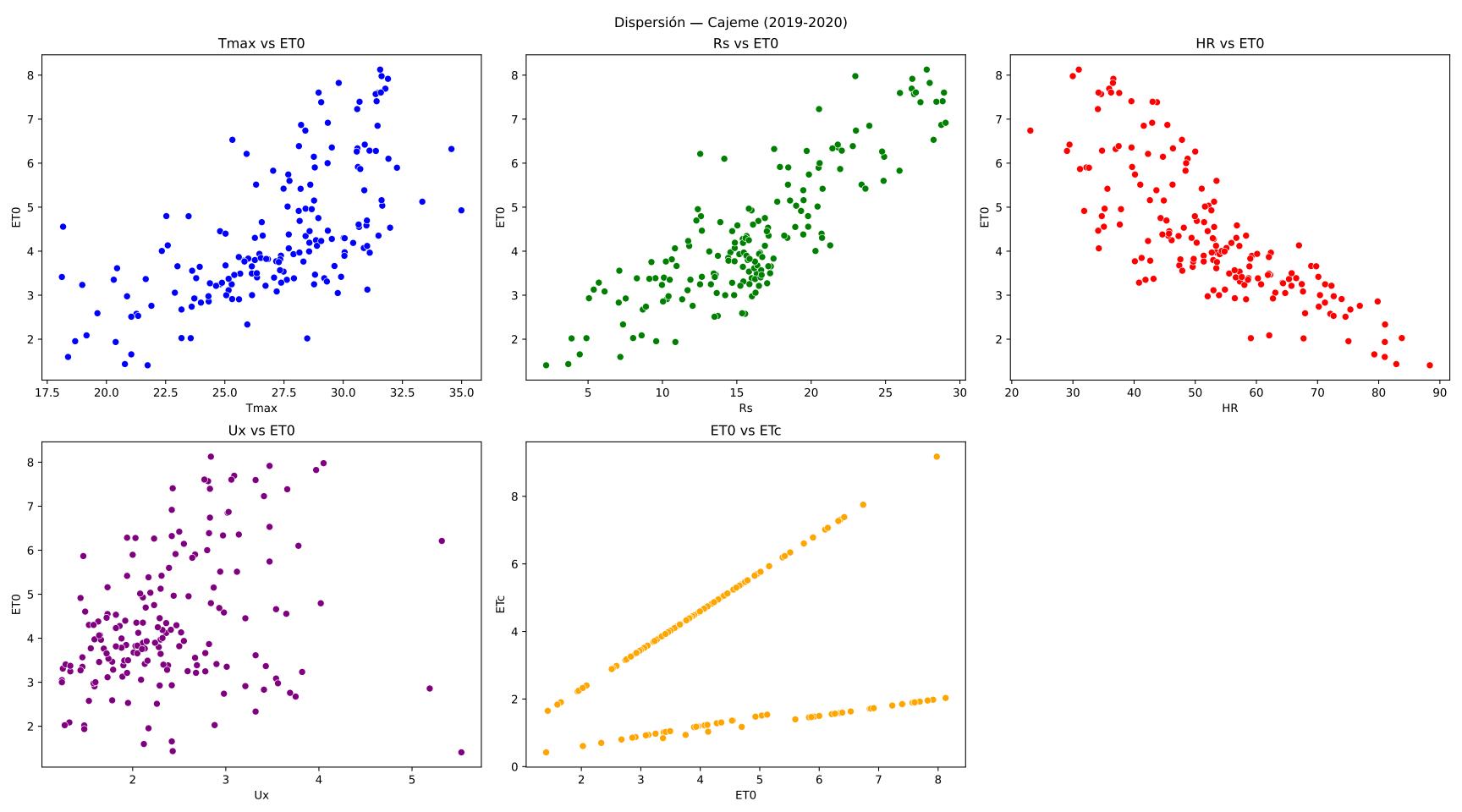
Cajeme — 2019-2020 · Resultados y métricas

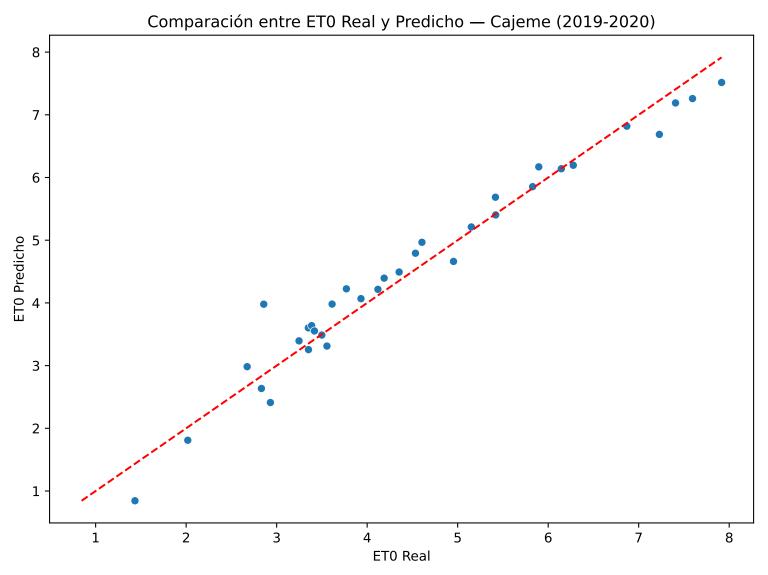
```
[Cajeme 2019-2020] Regresión Lineal ETO - R^2: 0.9594 MSE: 0.1085
[Cajeme 2019-2020] Random Forest ET0 - R^2: 0.9146 MSE: 0.2281
Importancias: {'Tmax': 0.06725756243589749, 'Tmin': 0.011052162185802733, 'HR': 0.19738944471938466, 'Ux':
0.0504657259717347, 'Rs': 0.6738351046871804}
Estadísticas descriptivas por grupo (medias):
                                    HR
                                                                  ET0
                                                                           ETc
             Tmax
                        Tmin
                                              Ux
                                                         Rs
                        mean
                                  mean
                                                       mean
                                                                 mean
                                                                          mean
             mean
                                            mean
cluster
0
        29.914074 15.131852 40.074074 2.913704
                                                  24.731852
                                                            6.869692 1.717423
        28.431837 13.289184 43.613878 2.425918
                                                  17.628163
                                                            4.921878 5.660160
        23.705385 16.741538 77.237692 3.516154
                                                   7.966923
                                                            2.476920
                                                                      1.505240
        29.177105 18.022105
                             55.085526 1.870526
                                                  13.085526
                                                            3.816513 2.083817
        23.185333 11.961778 61.976222 2.221556
                                                  14.100667 3.182886 3.577678
```

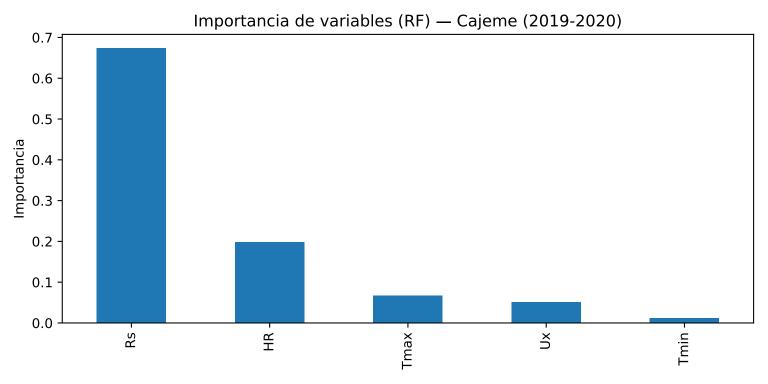
Cajeme — 2019-2020

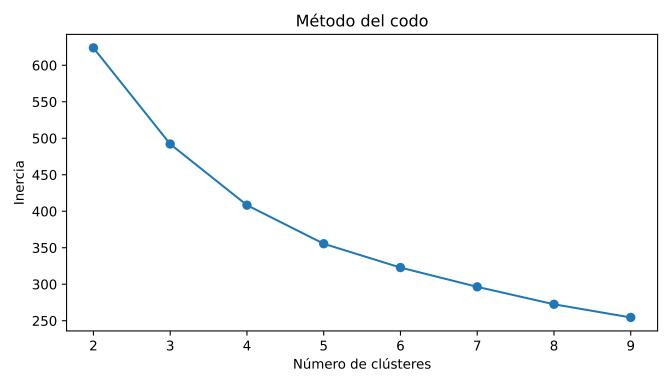
Matriz de Correlación entre Variables Meteorológicas

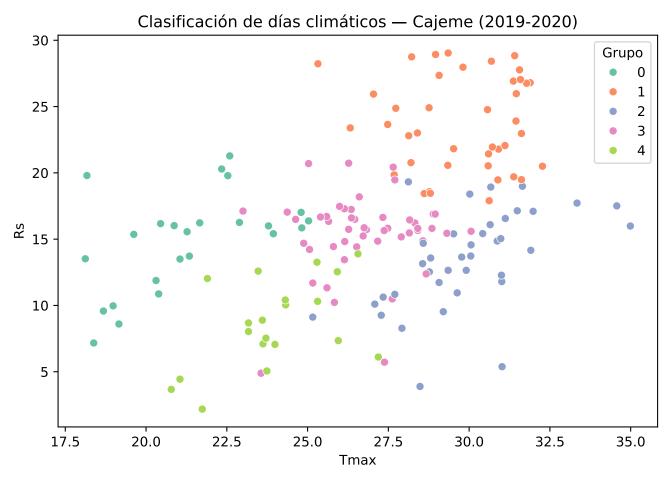


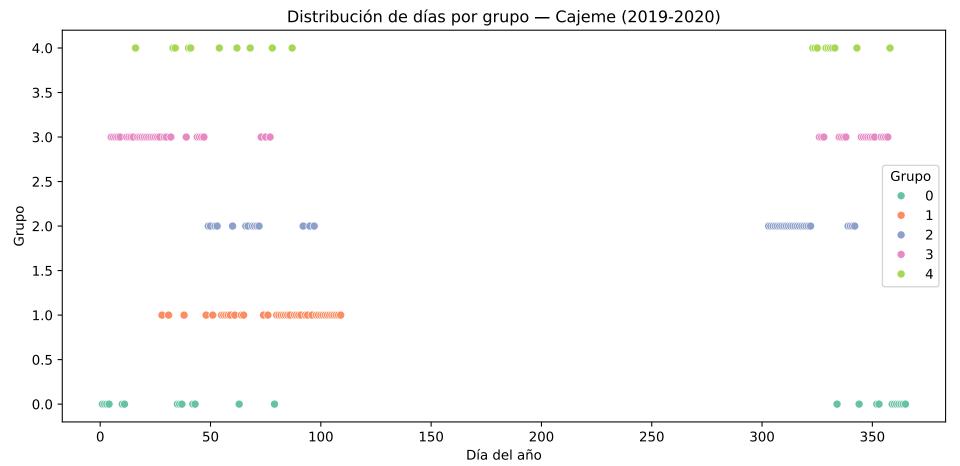


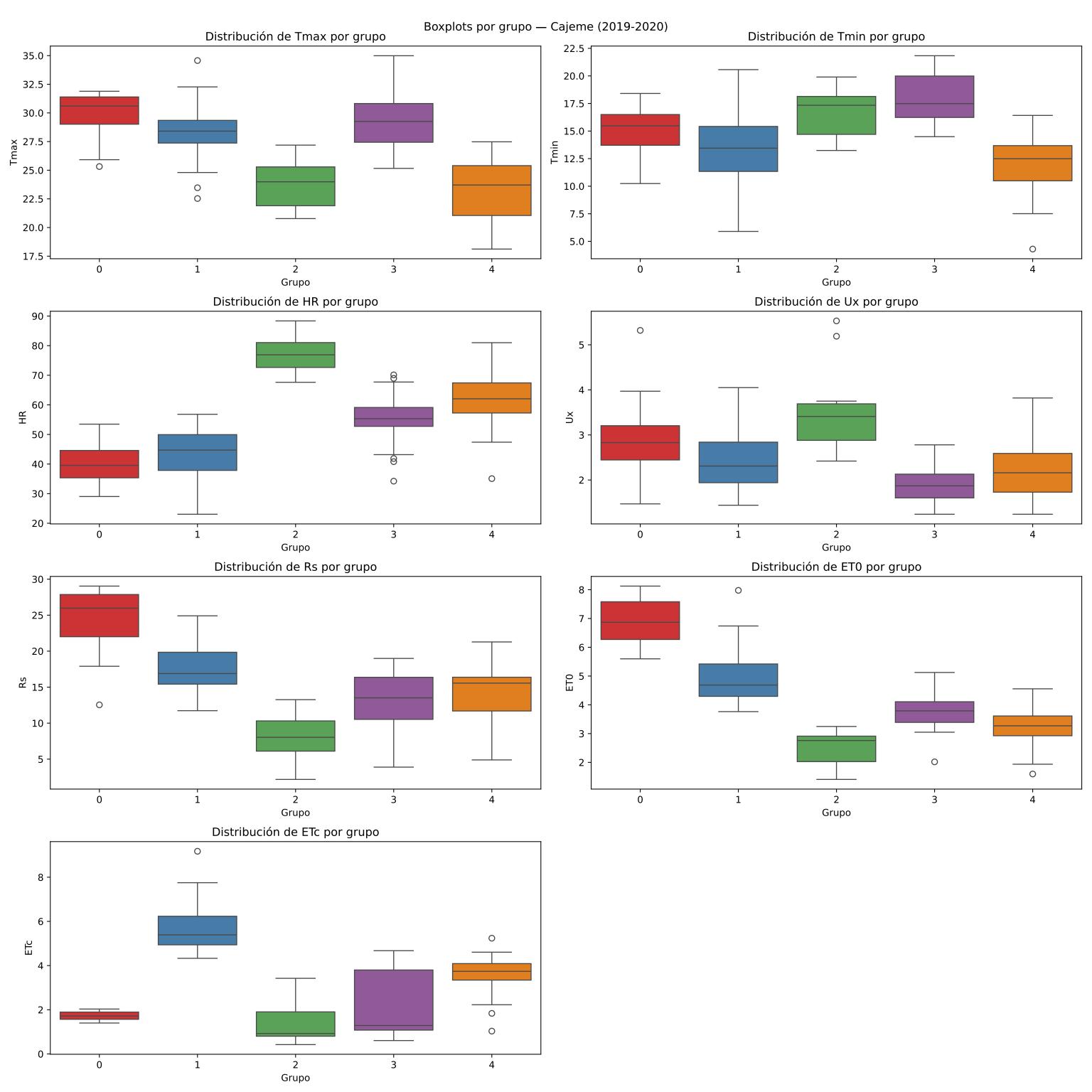


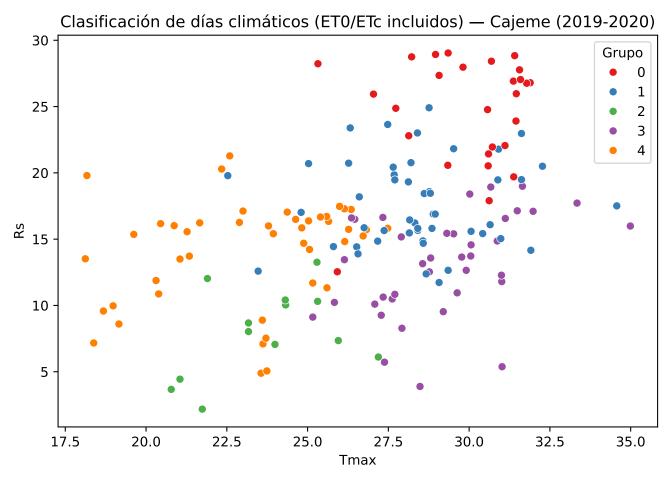












Cajeme — 2020-2021

Días del ciclo: 172

ETc total [mm]: 723.6

ETverde total [mm]: 11.5

ETazul total [mm]: 712.0

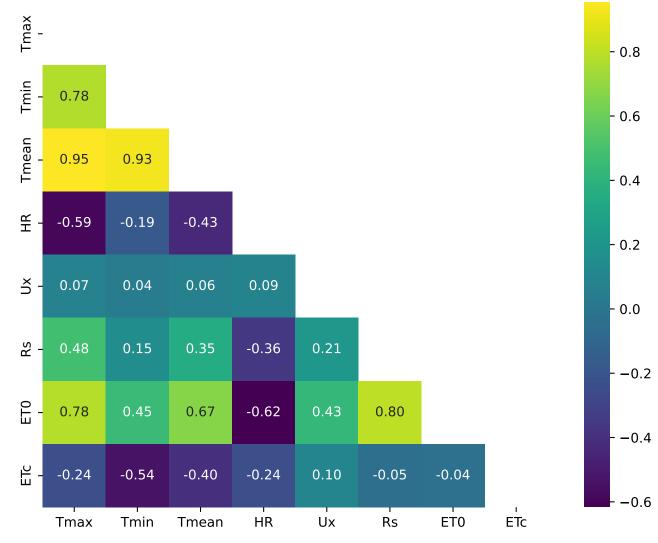
Tmax / Tmin [°C]: 40.8 / 7.3

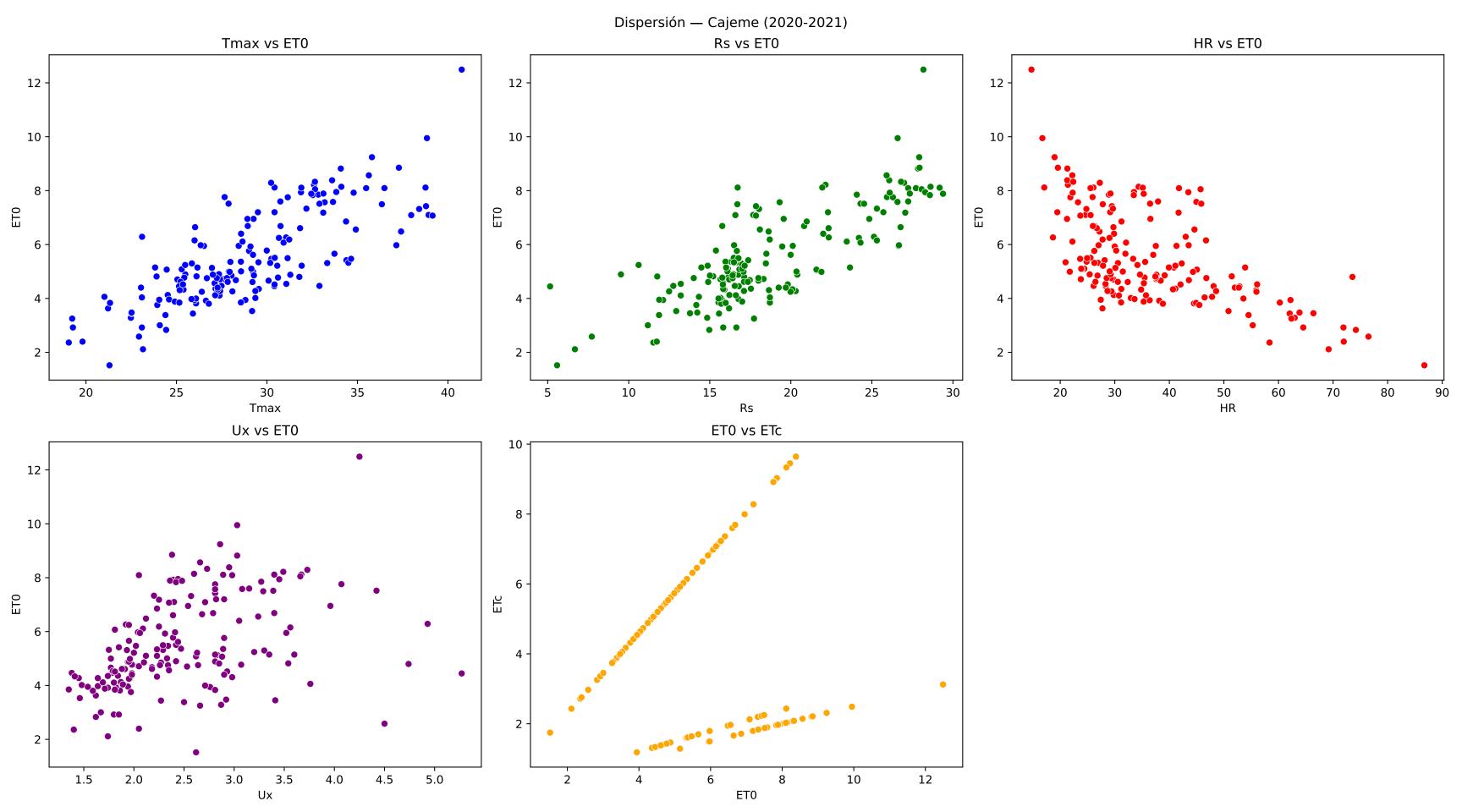
Cajeme — 2020-2021 · Resultados y métricas

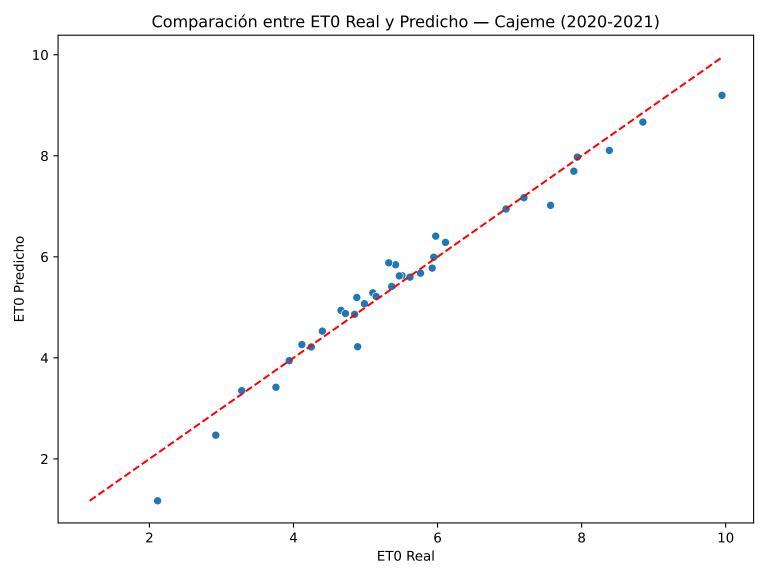
```
[Cajeme 2020-2021] Regresión Lineal ETO — R<sup>2</sup>: 0.9615 MSE: 0.1073
[Cajeme 2020-2021] Random Forest ET0 - R^2: 0.9408 MSE: 0.1649
Importancias: {'Tmax': 0.29239403414805476, 'Tmin': 0.026029259368649364, 'HR': 0.0955897201368319, 'Ux':
0.0757197584578433, 'Rs': 0.5102672278886207}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                  ET0
                                                                            ETc
             Tmax
                        Tmin
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                           mean
             mean
                                             mean
cluster
0
        27.371268 12.673239 34.145915 2.134366
                                                   16.490845
                                                             4.660136 4.869447
        35.018182 20.233182 30.373182 2.302727
                                                   17.201364
                                                             6.155042 1.813732
                                        2.972917
                                                   22.477500
        29.775833 12.742083 27.865833
                                                             6.821746 7.845008
        23.673571 12.708929 61.011071 2.792857
                                                   14.438929
                                                             3.583492 3.383109
        33.234815 16.852963 31.586296 2.887778 27.237037 8.140750 2.035188
```

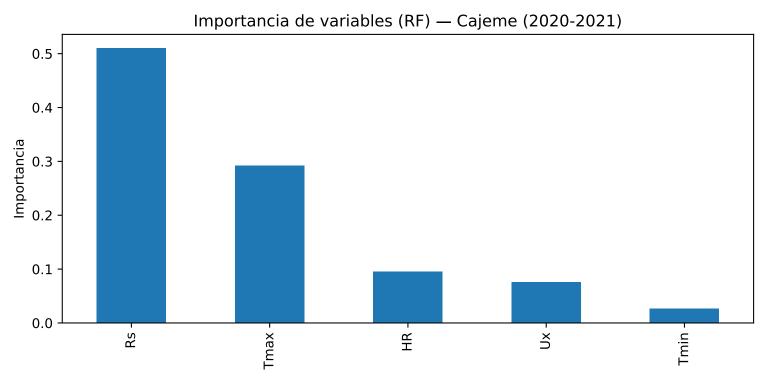
Cajeme — 2020-2021

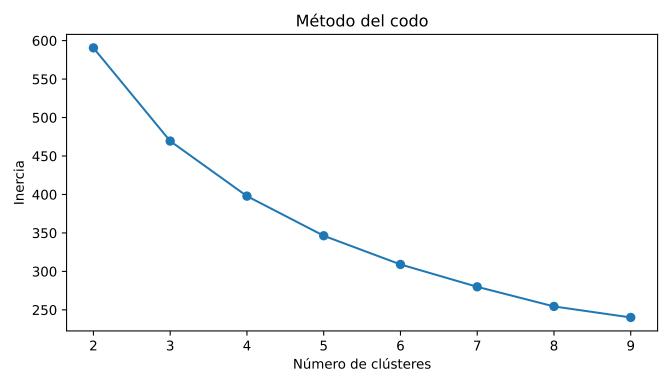
Matriz de Correlación entre Variables Meteorológicas





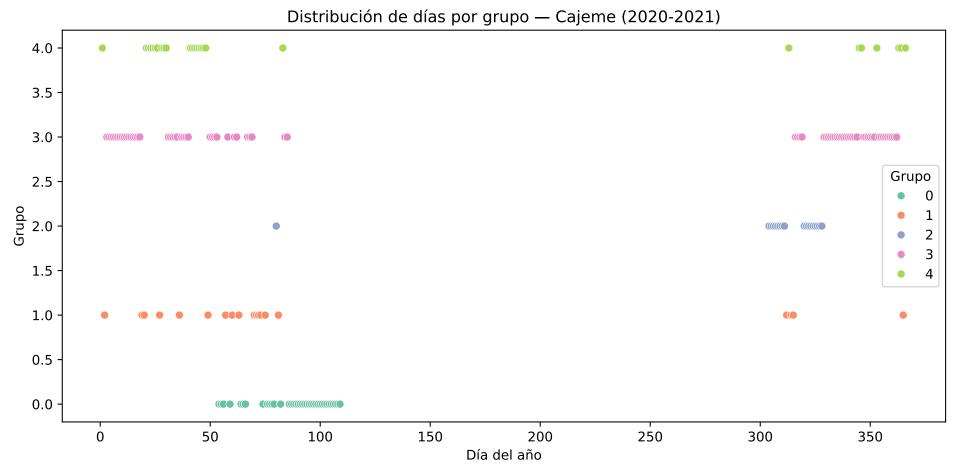


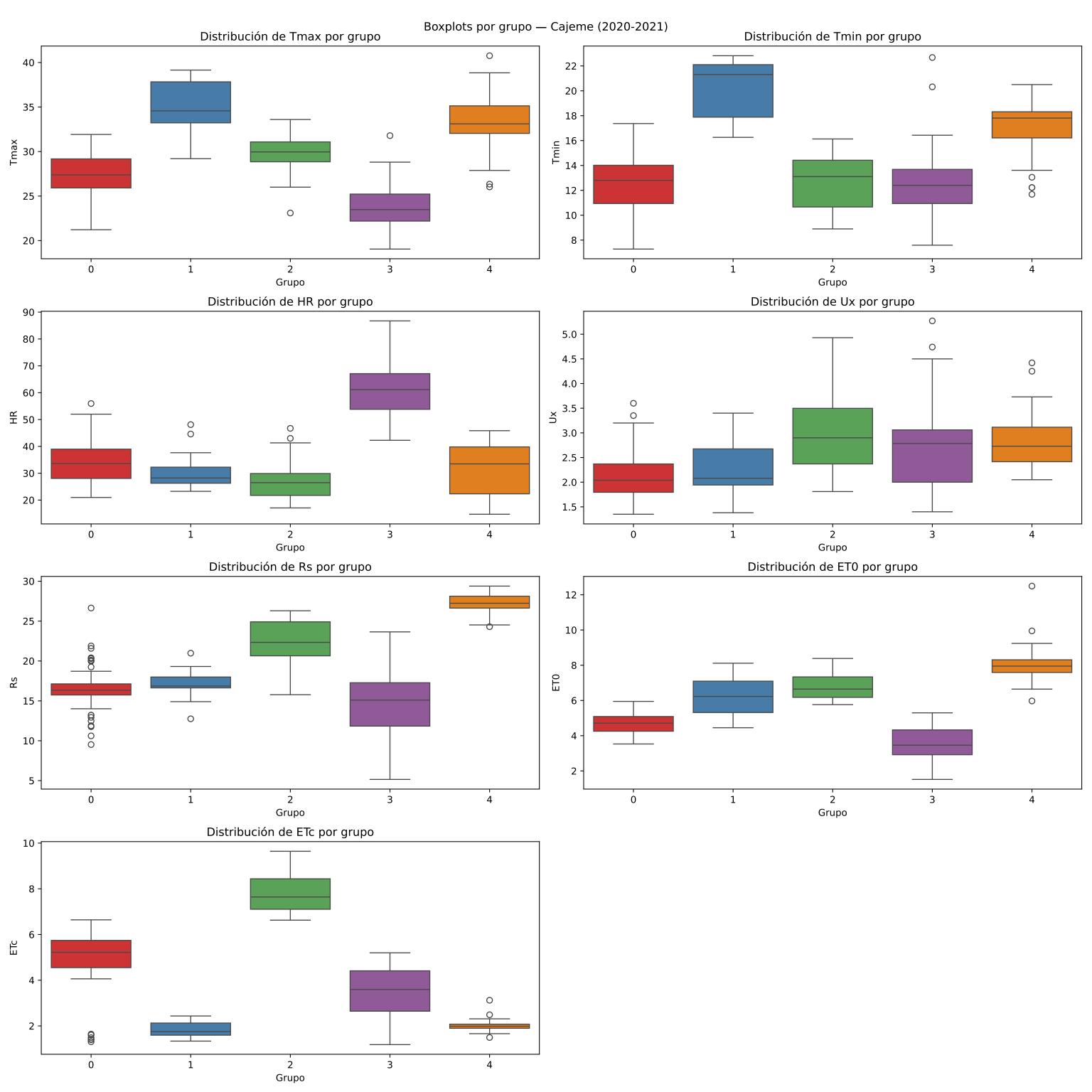


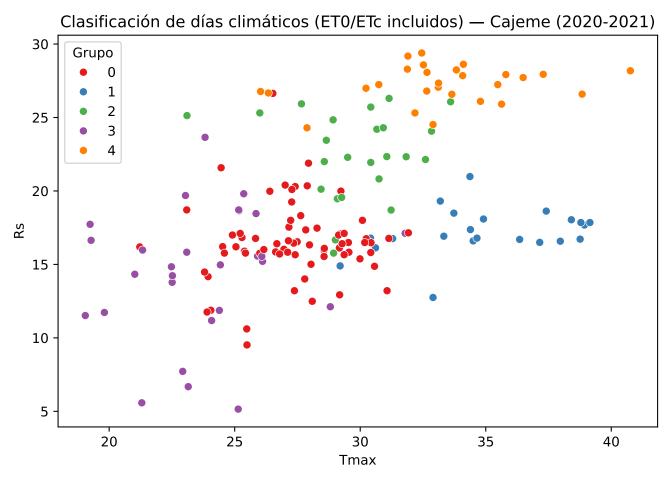


Clasificación de días climáticos — Cajeme (2020-2021) Grupo

Tmax







Cajeme — 2021-2022

Días del ciclo: 172

ETc total [mm]: 715.4

ETverde total [mm]: 7.2

ETazul total [mm]: 708.2

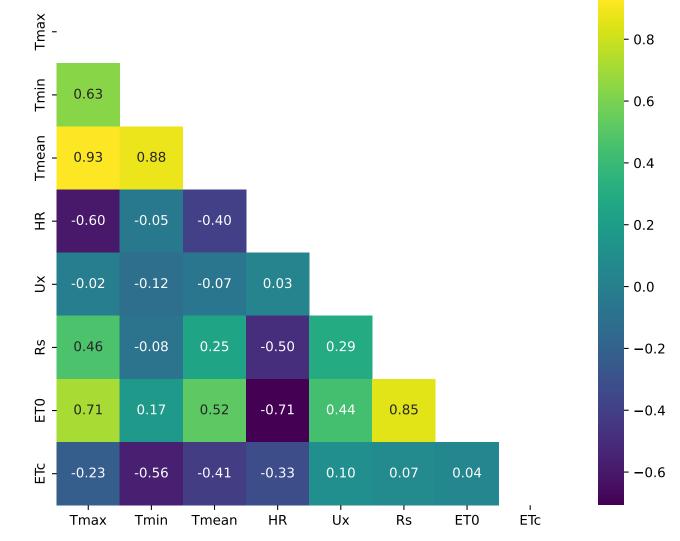
Tmax / Tmin [°C]: 39.8 / 6.7

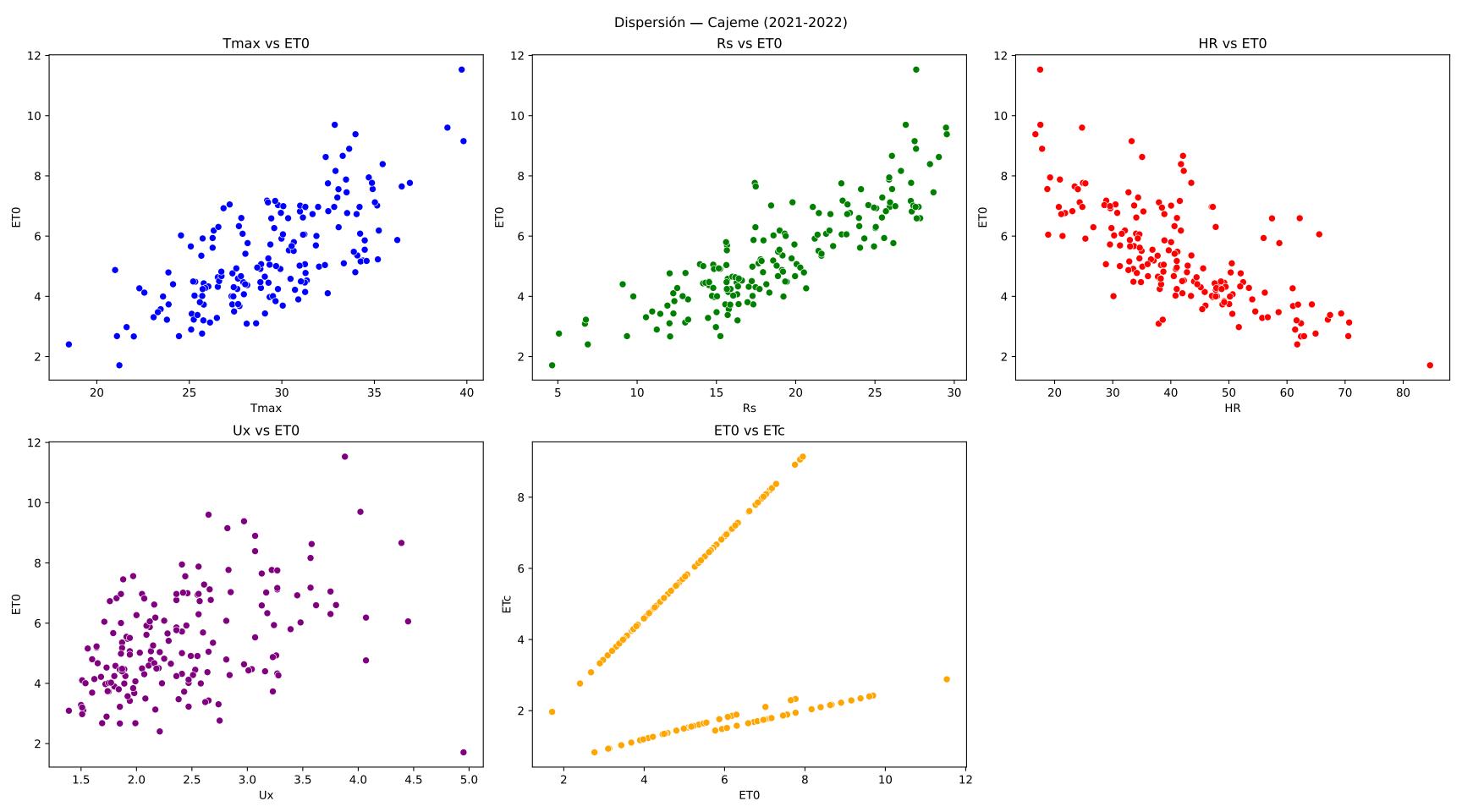
Cajeme — 2021-2022 · Resultados y métricas

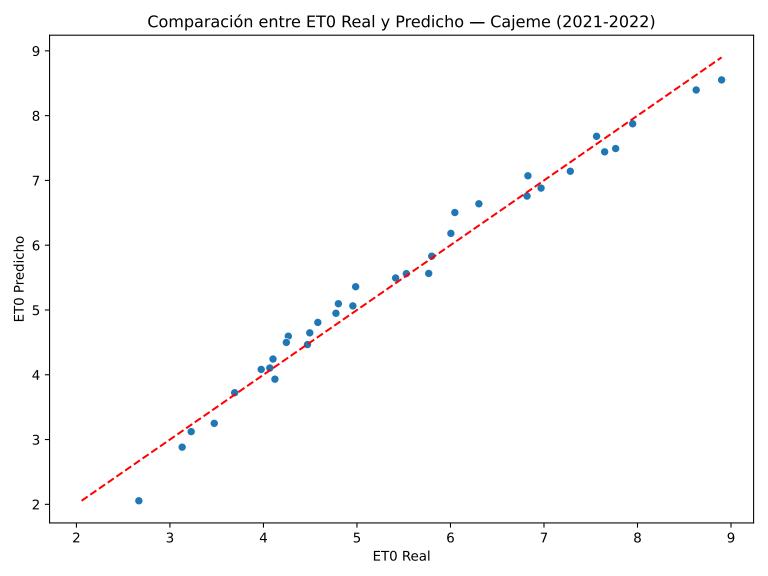
```
[Cajeme 2021-2022] Regresión Lineal ETO — R<sup>2</sup>: 0.9798 MSE: 0.0540
[Cajeme 2021-2022] Random Forest ET0 - R^2: 0.9004 MSE: 0.2660
Importancias: {'Tmax': 0.13378048320379177, 'Tmin': 0.010351437169708419, 'HR': 0.14559569464064623, 'Ux':
0.03930029795277937, 'Rs': 0.6709720870330743}
Estadísticas descriptivas por grupo (medias):
                                                                   ET0
                                                                            ETc
             Tmax
                        Tmin
                                     HR
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
             mean
                                             mean
                                                                            mean
cluster
0
        32.708125 16.534375 37.288438 3.023125
                                                   25.986563
                                                            7.652136 1.948084
        25.061923
                  14.926923
                              59.831154 2.218846
                                                   11.893462 3.173606 3.123090
                                        2.385882
                                                  16.796078
        26.957843 12.953725 43.920588
                                                             4.508491 5.184765
        32.738387 18.888710
                              38.412258 1.885806
                                                  16.729355
                                                             5.063976 2.229784
                              30.082187 2.633125 22.706875 6.475368 7.446673
        29.967188 13.250937
```

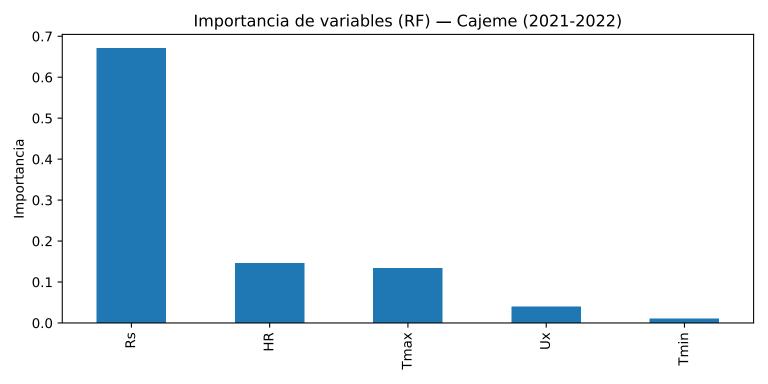
Cajeme — 2021-2022

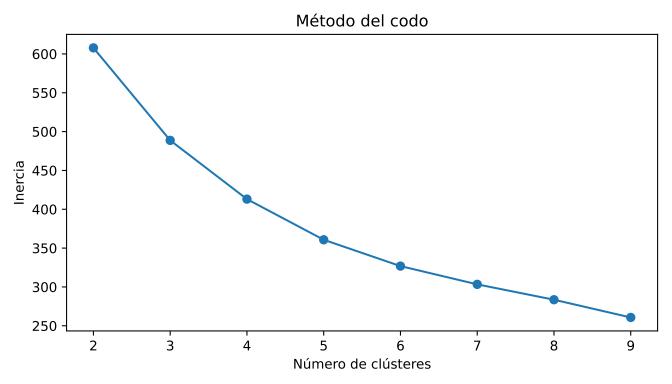
Matriz de Correlación entre Variables Meteorológicas









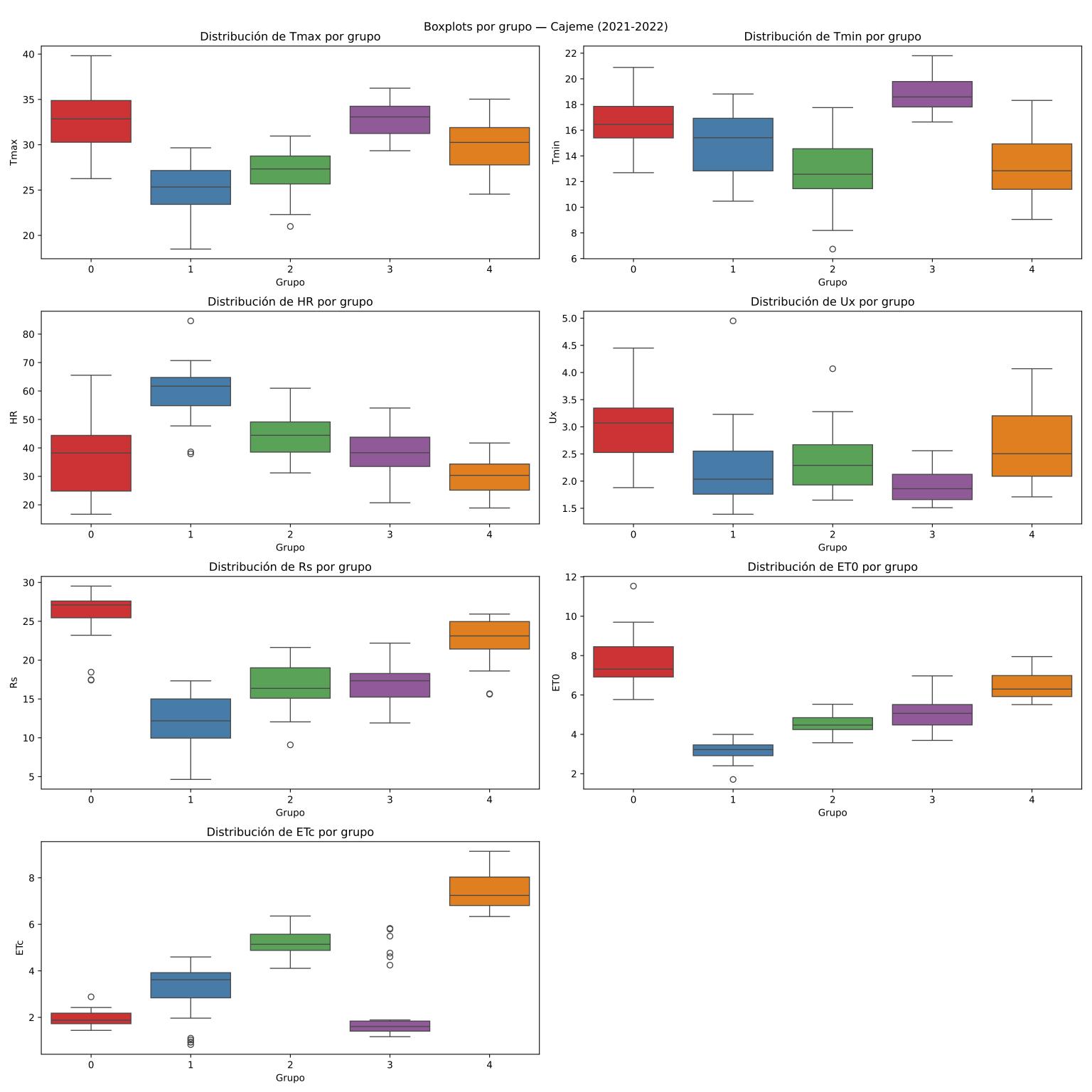


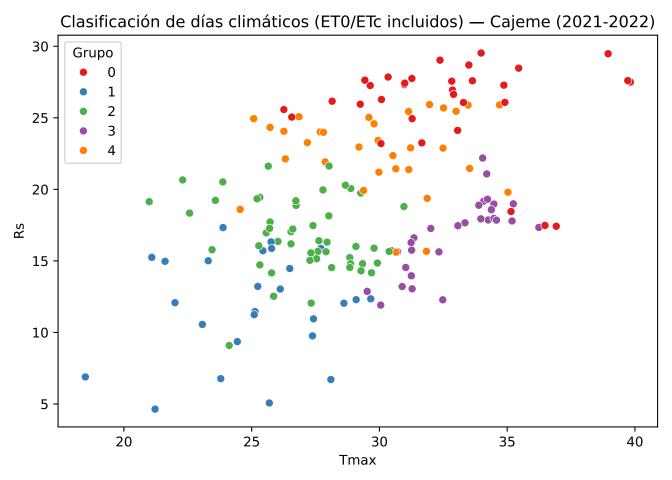
Clasificación de días climáticos — Cajeme (2021-2022) Grupo

Tmax

Distribución de días por grupo — Cajeme (2021-2022) Grupo 3.5 3.0 2.5 odn 2.0 1.5 1.0 0.5 -0.0 -250 300 350 0 50 100 150 200

Día del año





Cajeme — 2022-2023

Días del ciclo: 172

ETc total [mm]: 702.6

ETverde total [mm]: 14.9

ETazul total [mm]: 687.7

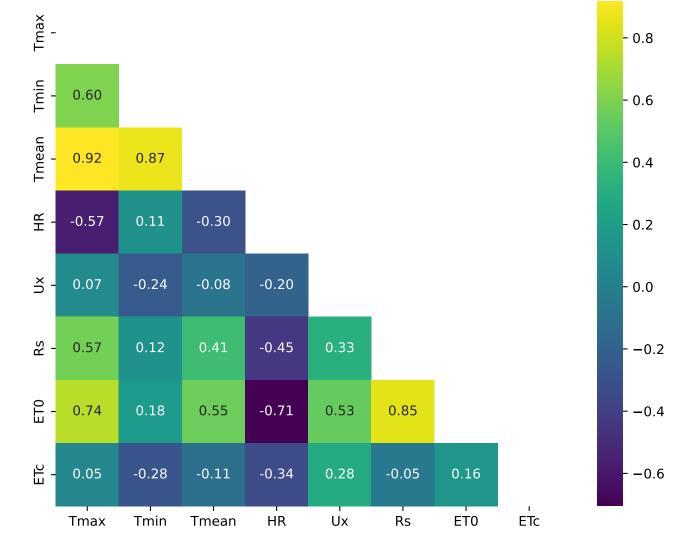
Tmax / Tmin [°C]: 37.2 / 6.1

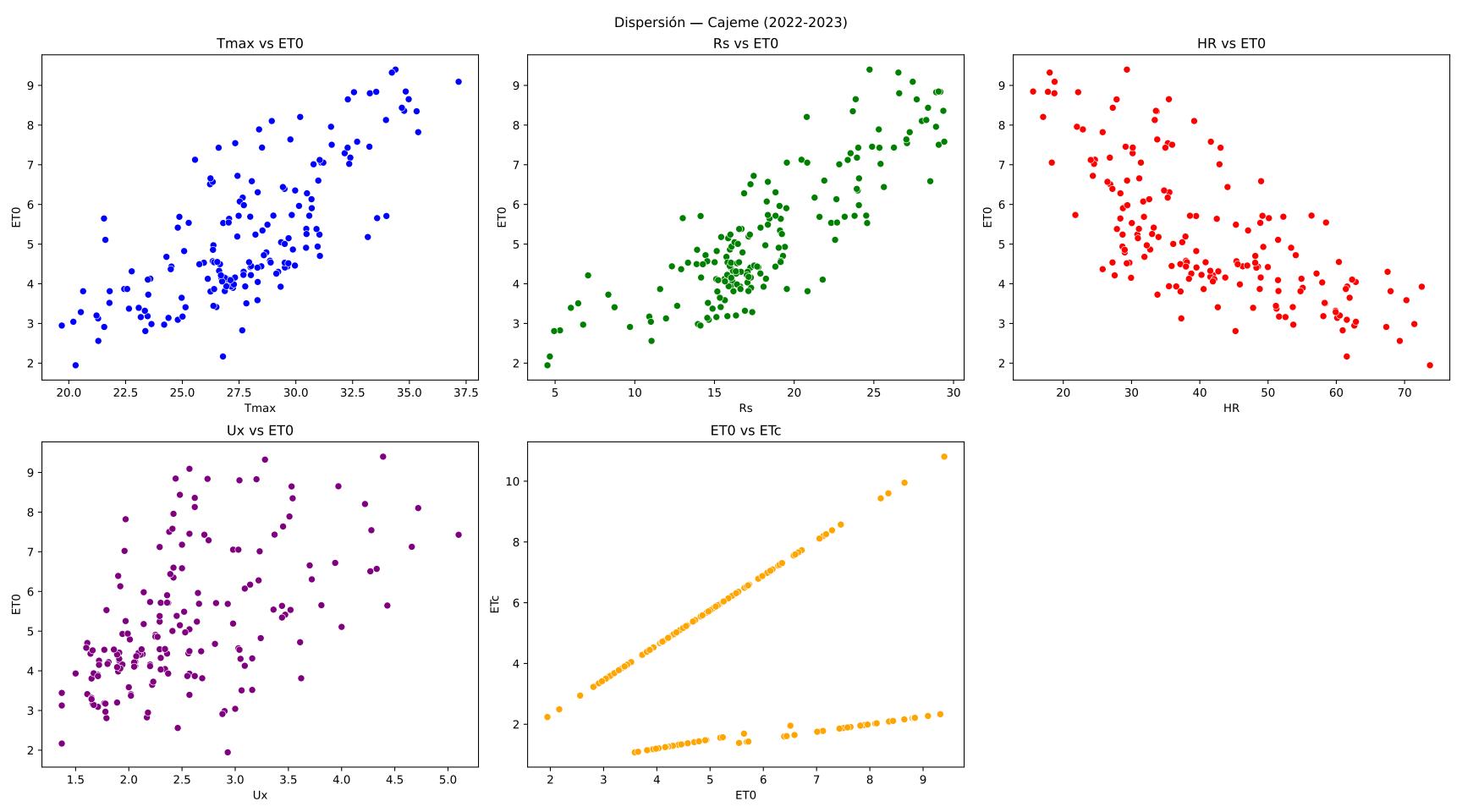
Cajeme — 2022-2023 · Resultados y métricas

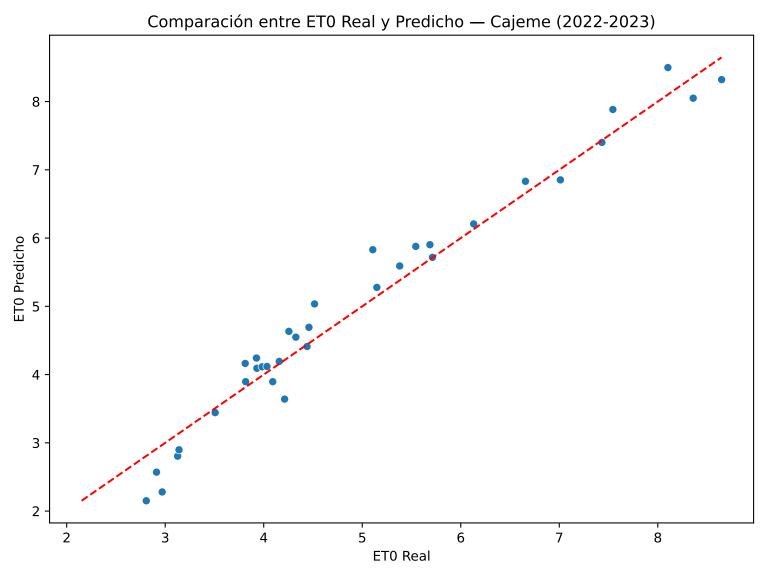
```
[Cajeme 2022-2023] Regresión Lineal ETO - R<sup>2</sup>: 0.9589 MSE: 0.1064
[Cajeme 2022-2023] Random Forest ET0 - R^2: 0.9550 MSE: 0.1165
Importancias: {'Tmax': 0.11756139280162618, 'Tmin': 0.00775623169802329, 'HR': 0.15189718392249343, 'Ux':
0.06312221190984964, 'Rs': 0.6596629796680075}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                             ETc
             Tmax
                        Tmin
                                               Ux
                                                         Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                           mean
             mean
                                             mean
cluster
0
        22.712414 11.860000 56.731724 2.251724
                                                  13.476552 3.285433 3.778248
        32.034412 15.615882 30.154412 2.995882
                                                   26.303824
                                                             7.869699 3.246515
                   13.598491 35.514151 2.297736
                                                   16.642075
        28.613585
                                                             4.952629 5.451412
        28.002778 15.910278 52.828889 2.137500
                                                  16.570000 4.245098 1.736027
        26.088500
                    9.824000 32.925500 3.579000
                                                  19.183500 5.945419 6.560622
```

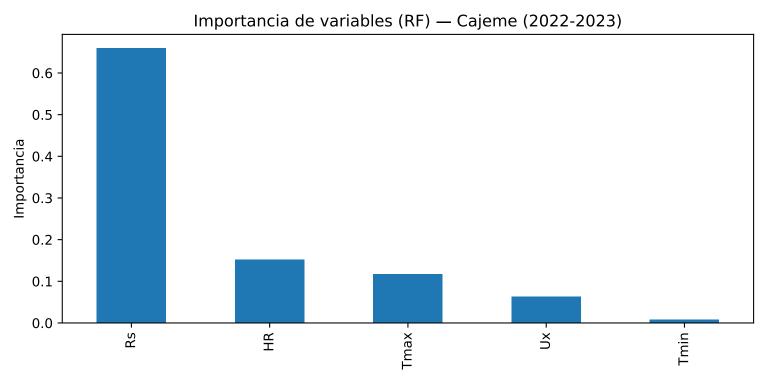
Cajeme — 2022-2023

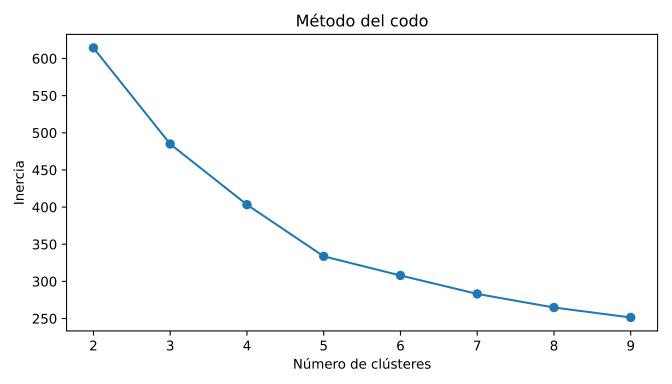
Matriz de Correlación entre Variables Meteorológicas





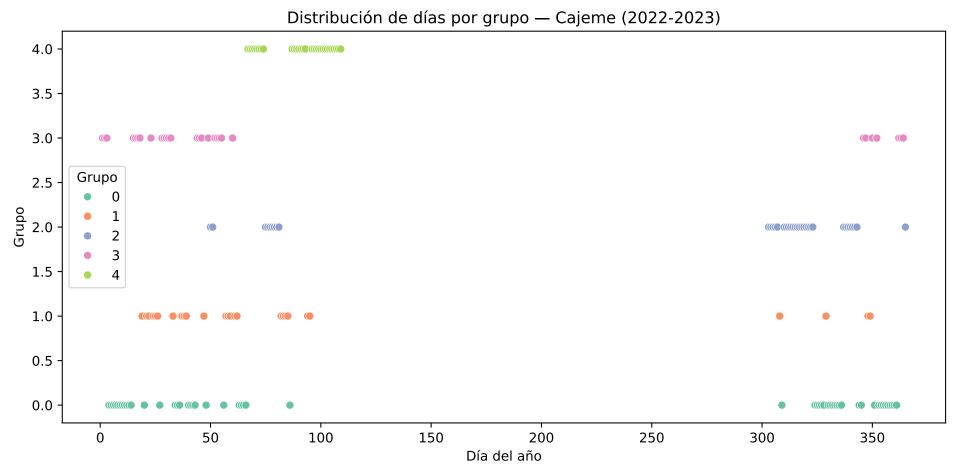


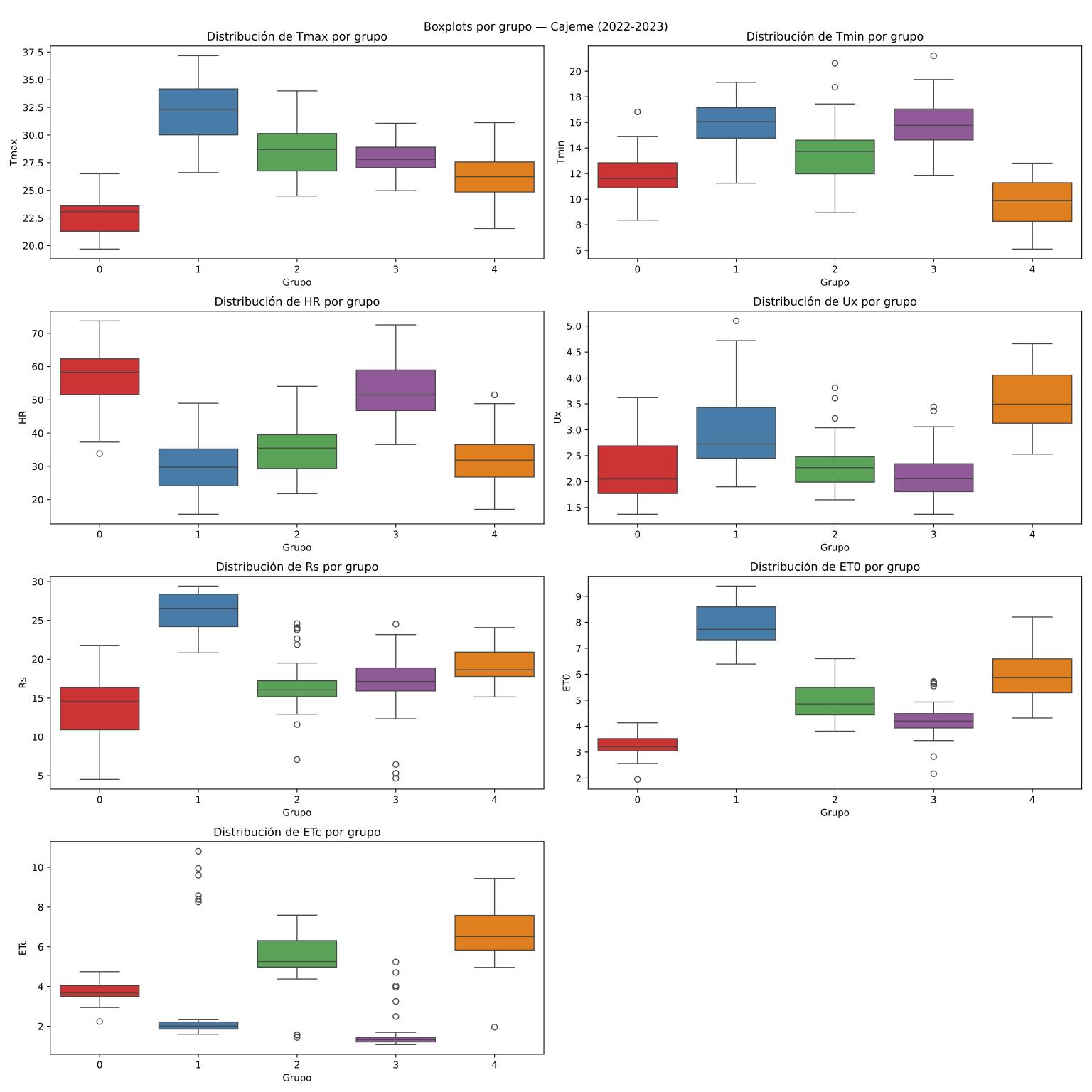


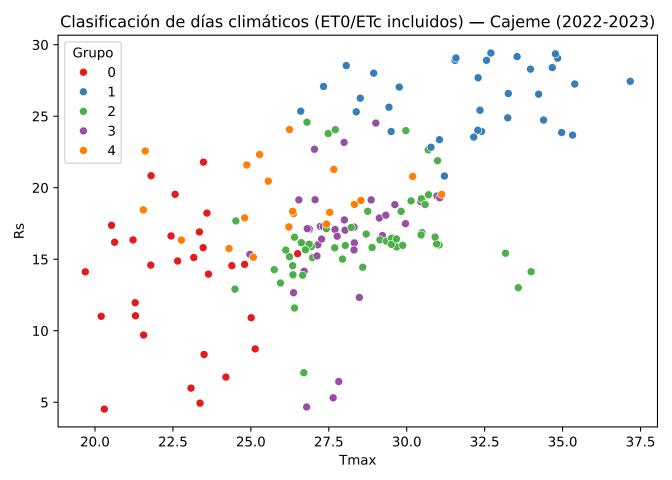


Clasificación de días climáticos — Cajeme (2022-2023) 30 Grupo 2 3 25 20 $\mathsf{R}\mathsf{s}$ 15 10 5 22.5 25.0 20.0 27.5 30.0 32.5 35.0 37.5

Tmax







Cajeme — 2023-2024

Días del ciclo: 172

ETc total [mm]: 702.3

ETverde total [mm]: 16.6

ETazul total [mm]: 685.7

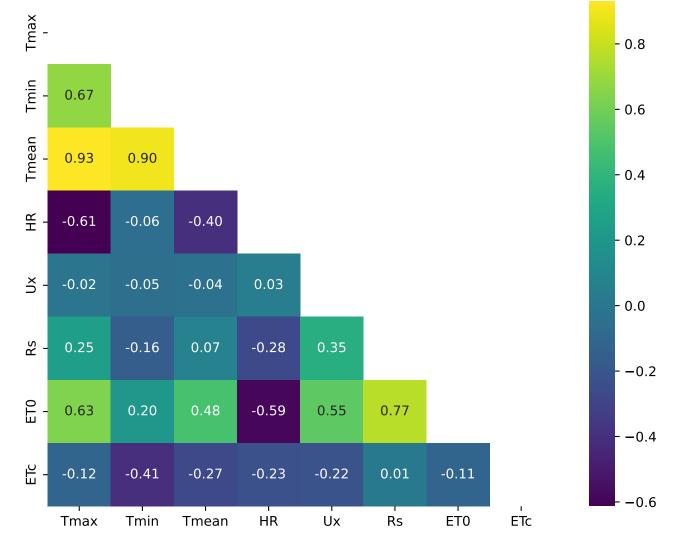
Tmax / Tmin [°C]: 39.7 / 5.1

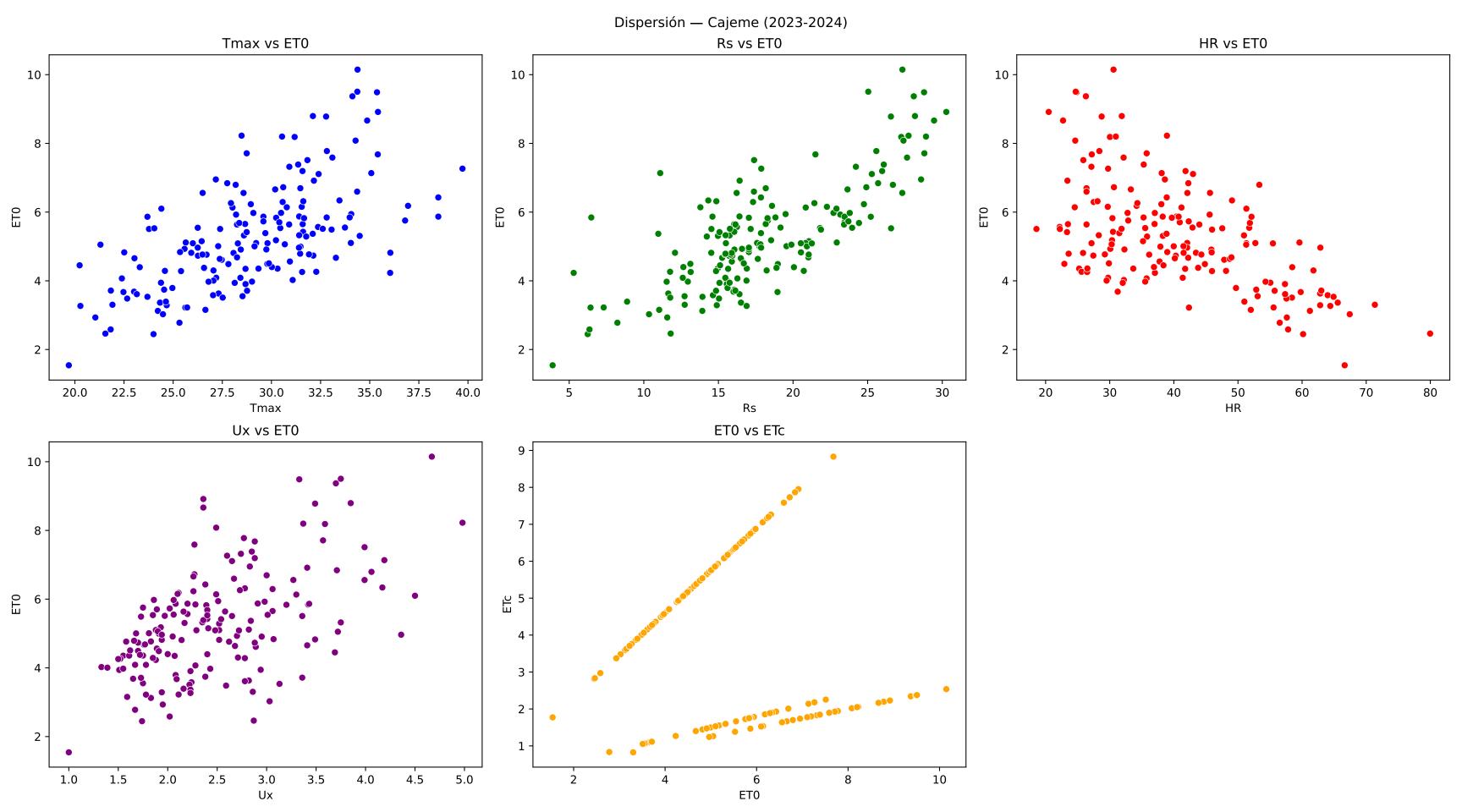
Cajeme — 2023-2024 · Resultados y métricas

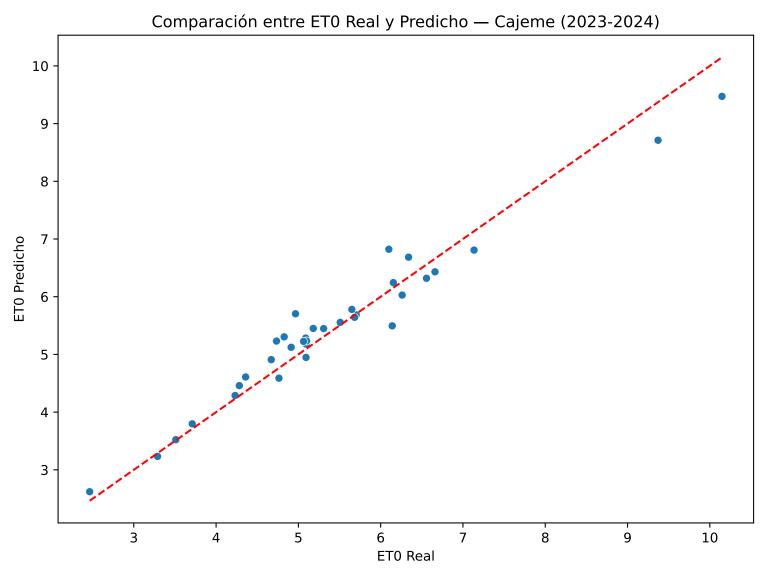
```
[Cajeme 2023-2024] Regresión Lineal ETO — R<sup>2</sup>: 0.9488 MSE: 0.1081
[Cajeme 2023-2024] Random Forest ET0 - R^2: 0.8748 MSE: 0.2641
Importancias: {'Tmax': 0.15359058234586143, 'Tmin': 0.014953985768664295, 'HR': 0.16414276350987708, 'Ux':
0.08028903259352126, 'Rs': 0.5870236357820761}
Estadísticas descriptivas por grupo (medias):
                                     HR
                                                                   ET0
                                                                             ETc
             Tmax
                        Tmin
                                               Ux
                                                          Rs
                        mean
                                   mean
                                                        mean
                                                                  mean
                                                                            mean
             mean
                                             mean
cluster
0
        31.537083 15.574583 33.043750 3.346667
                                                   26.726667 8.014708 2.019328
                                                   17.554364
        30.248909 15.348000 32.230545
                                        2.054000
                                                             5.211647 5.993394
                              59.623846 2.162692
                                                   11.704615
                                                             3.222609
        24.686538
                  15.402308
                                                                       2.912871
        33.501154 20.140000
                              37.722692 2.607692
                                                   16.016923
                                                             5.839634 1.714664
        25.499756 12.206829 46.758049 2.785366 18.946098 4.821235 4.972680
```

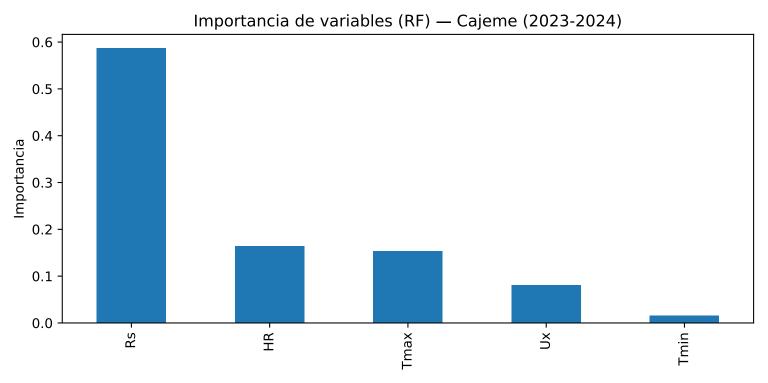
Cajeme — 2023-2024

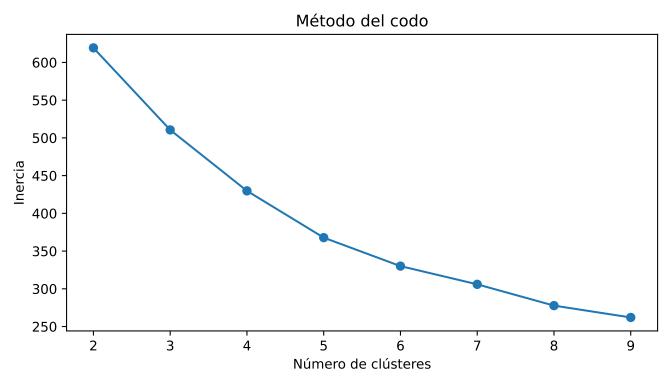
Matriz de Correlación entre Variables Meteorológicas

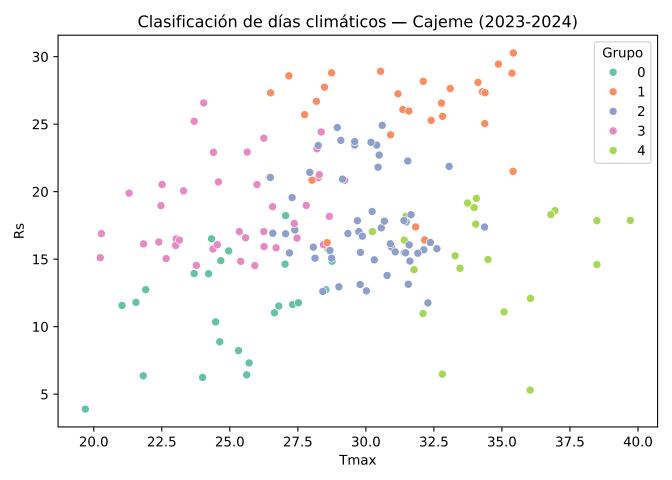












Distribución de días por grupo — Cajeme (2023-2024) 4.0 3.5 3.0 Grupo 2.5 odn 2.0 -1.5 1.0 0.5 0.0 -50 100 150 250 300 200 350

Día del año

