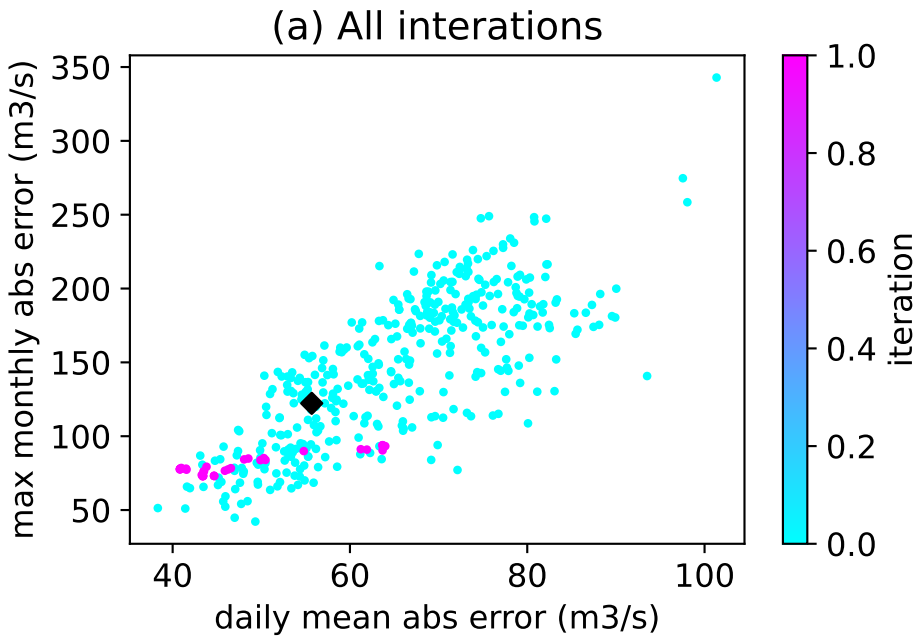
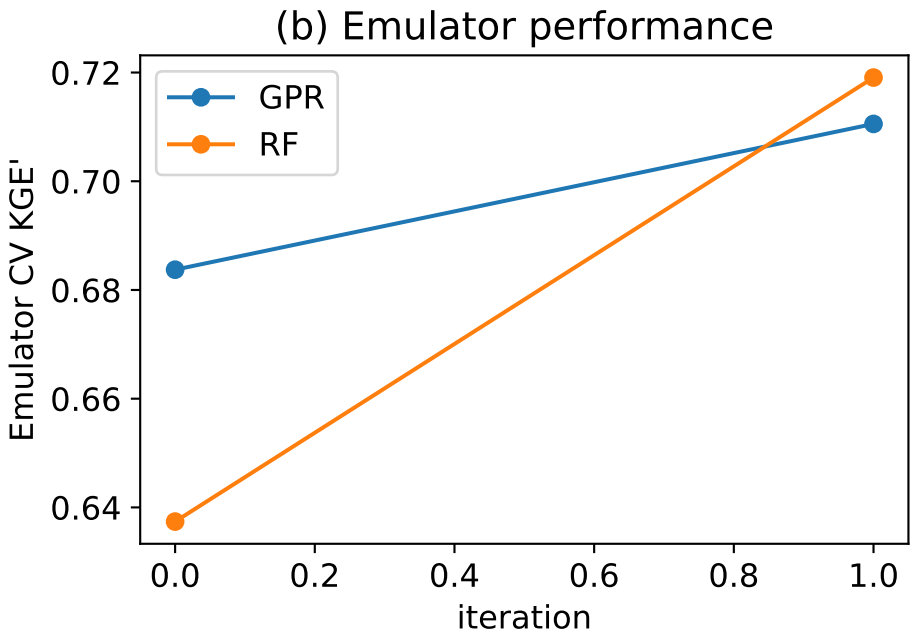
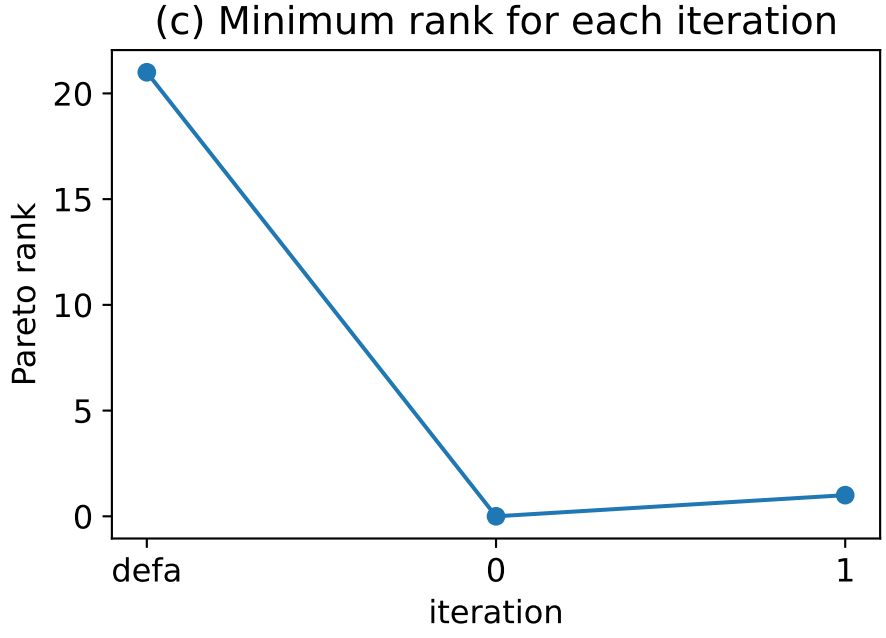
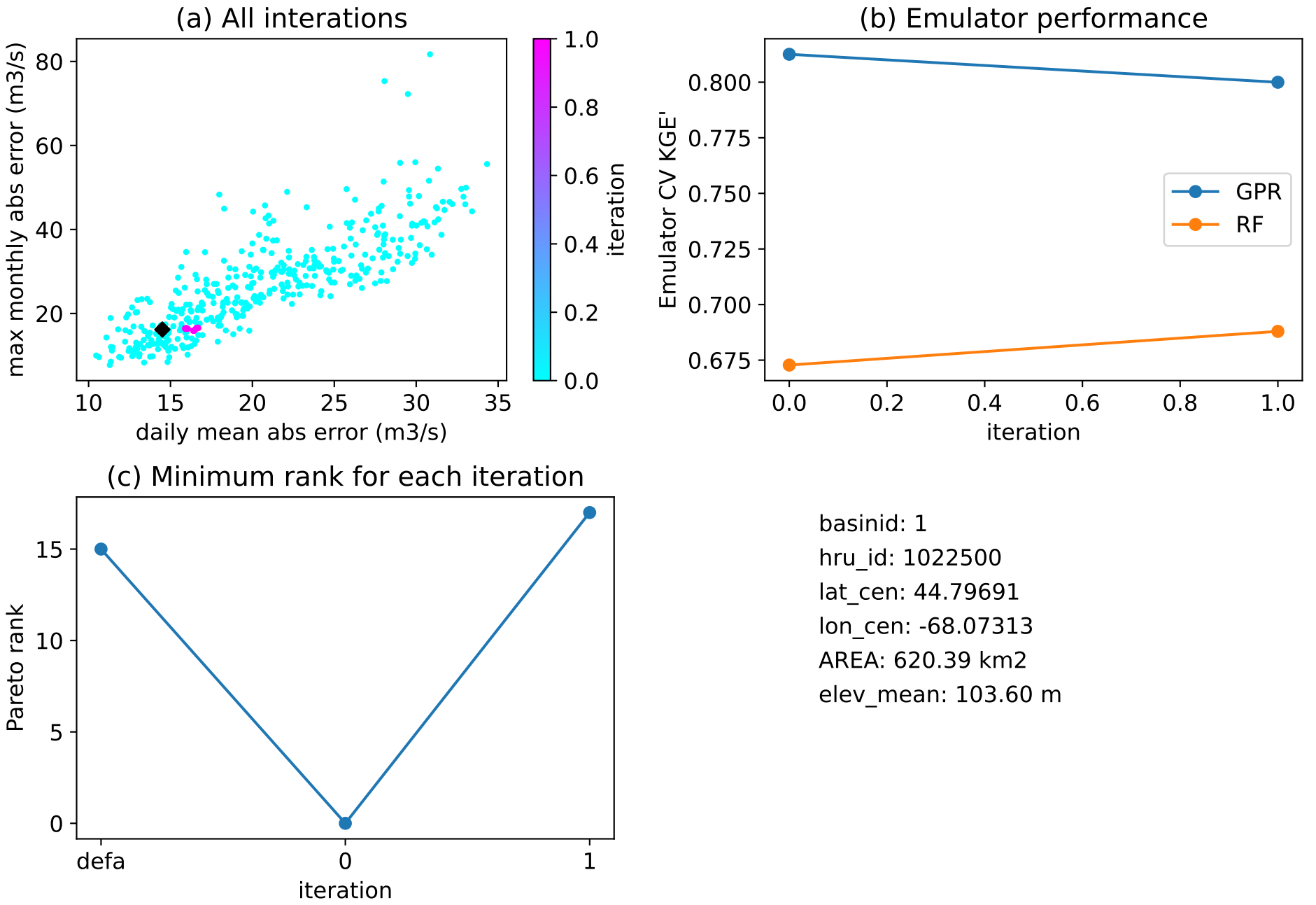
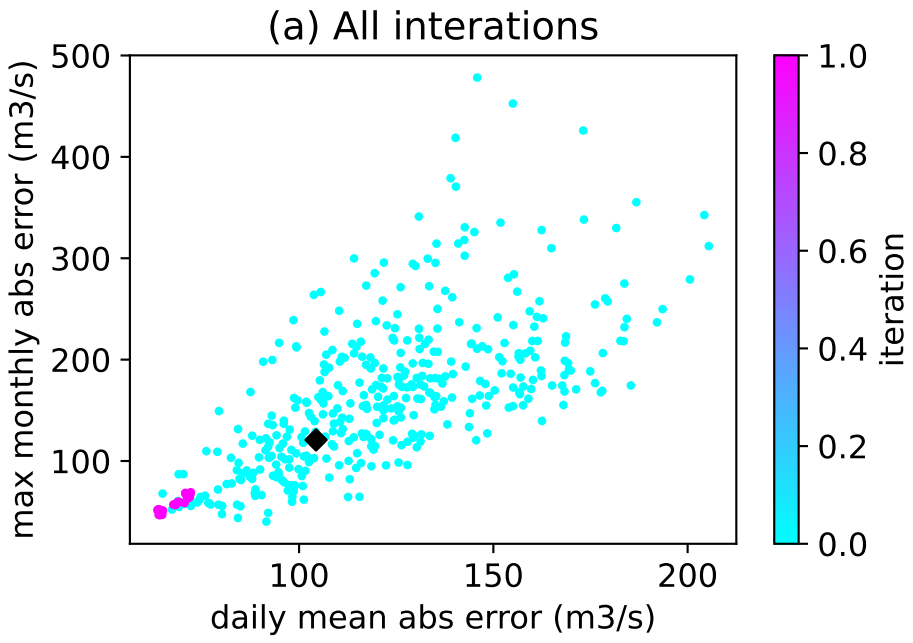


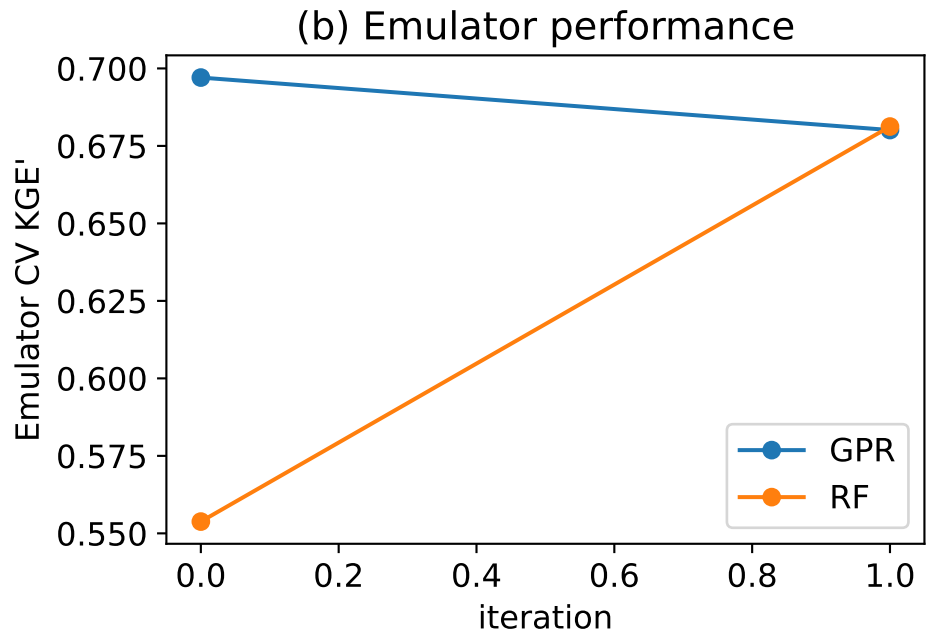


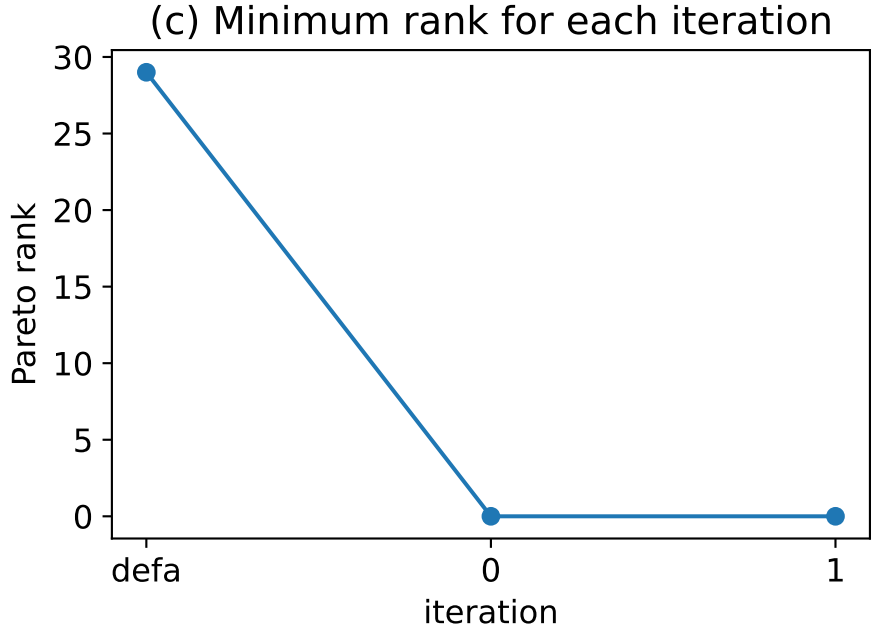


basinid: 0
hru_id: 1013500
lat_cen: 47.01169
lon_cen: -68.56551
AREA: 2303.99 km2
elev_mean: 277.49 m

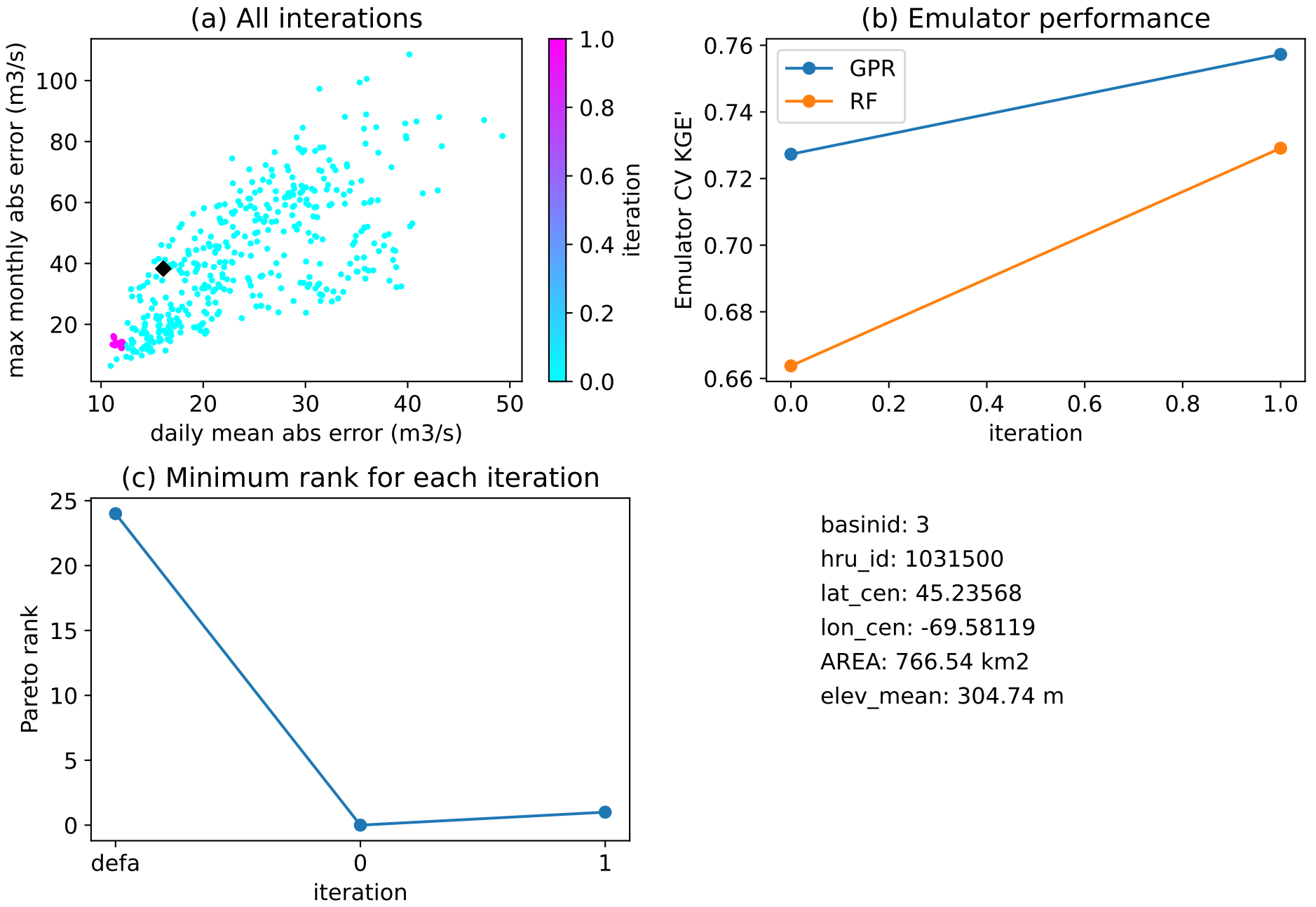

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 1
hru_id: 1022500
lat_cen: 44.79691
lon_cen: -68.07313
AREA: 620.39 km2
elev_mean: 103.60 m

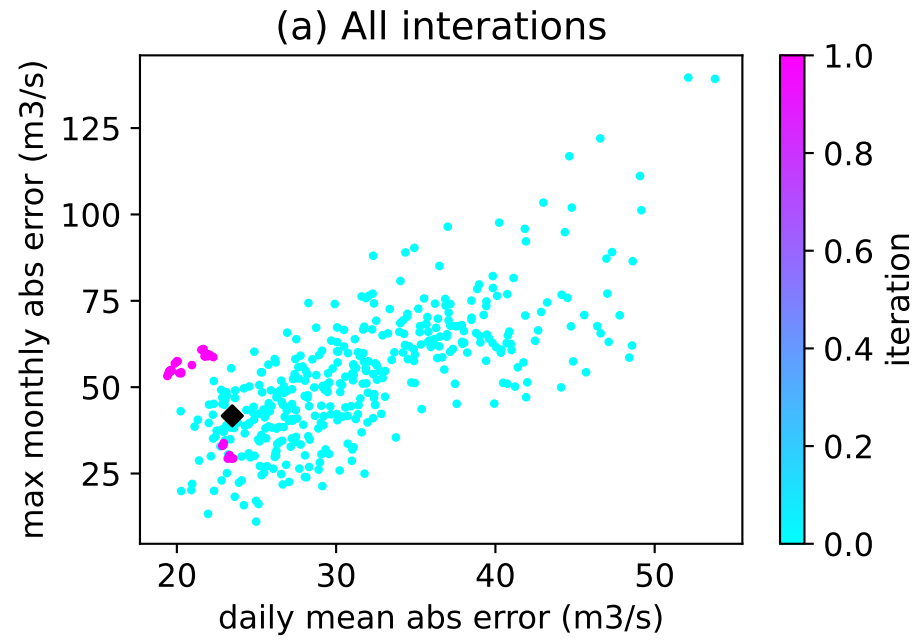


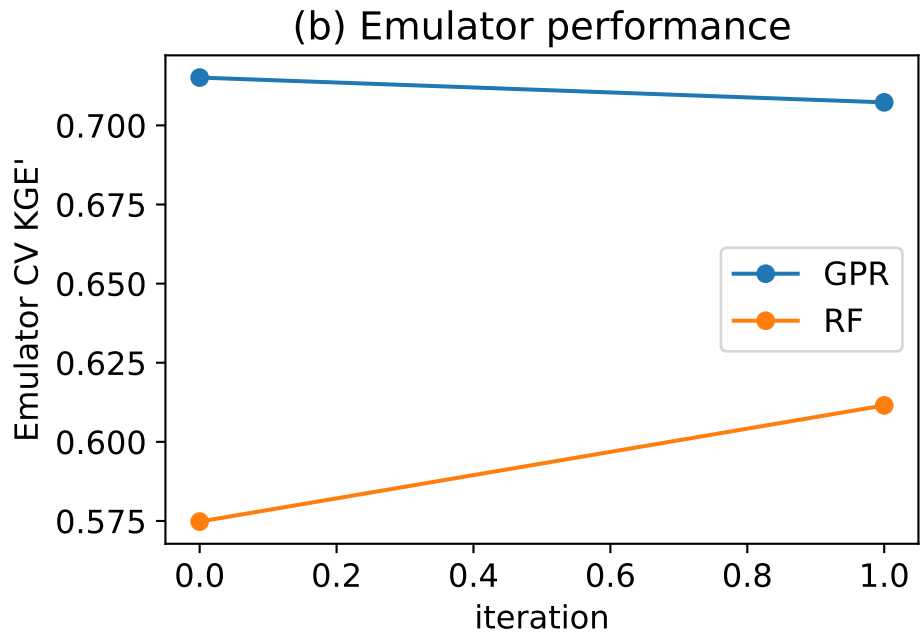


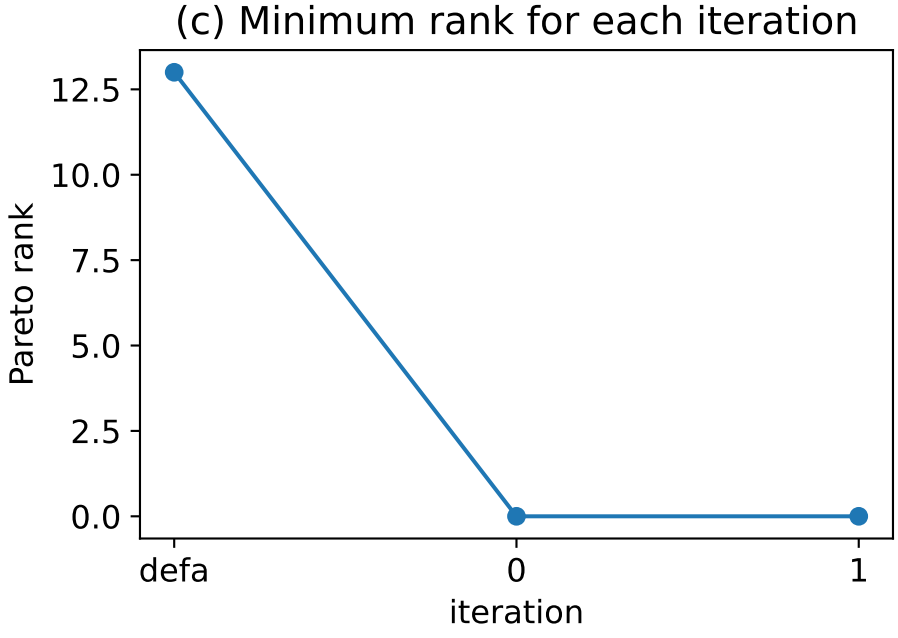


basinid: 2
hru_id: 1030500
lat_cen: 45.80527
lon_cen: -68.14985
AREA: 3676.15 km2
elev_mean: 174.43 m

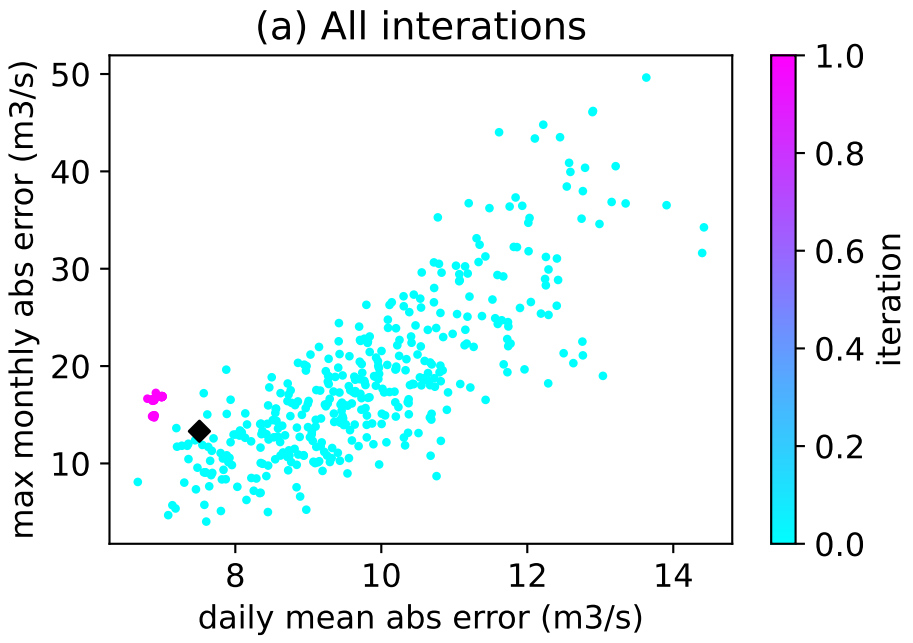

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 3
hru_id: 1031500
lat_cen: 45.23568
lon_cen: -69.58119
AREA: 766.54 km2
elev_mean: 304.74 m

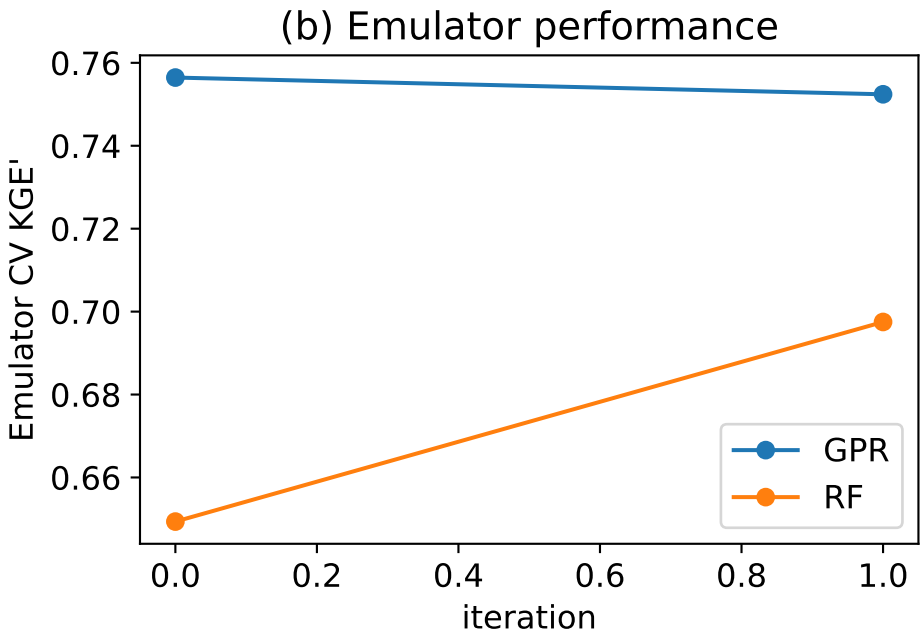


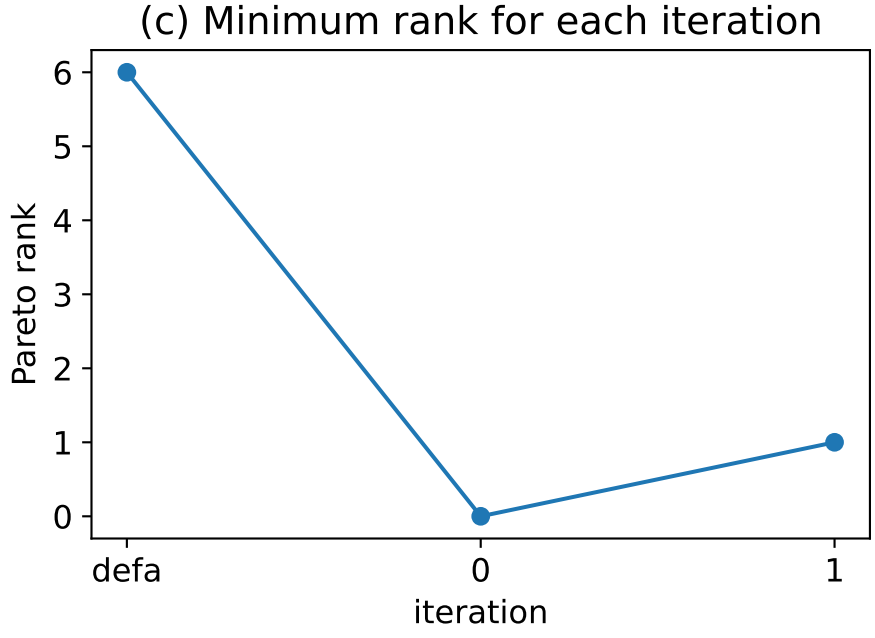




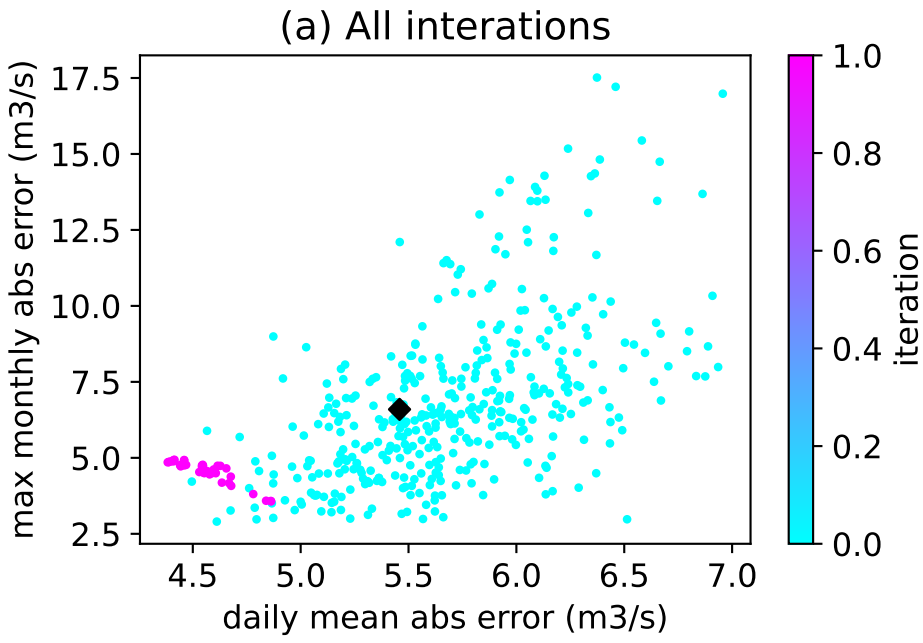
basinid: 4
hru_id: 1047000
lat_cen: 44.98744
lon_cen: -70.16213
AREA: 904.96 km2
elev_mean: 379.78 m

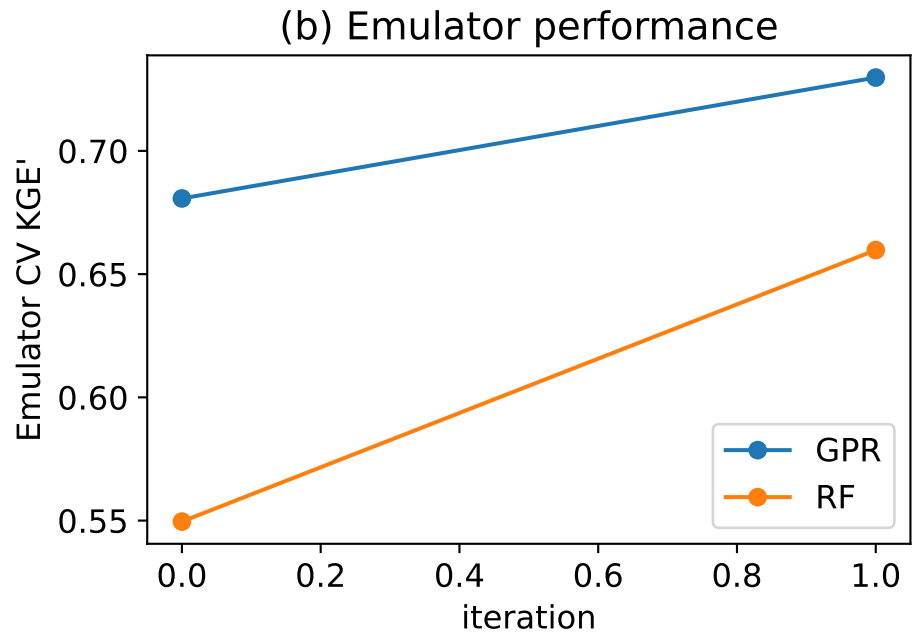


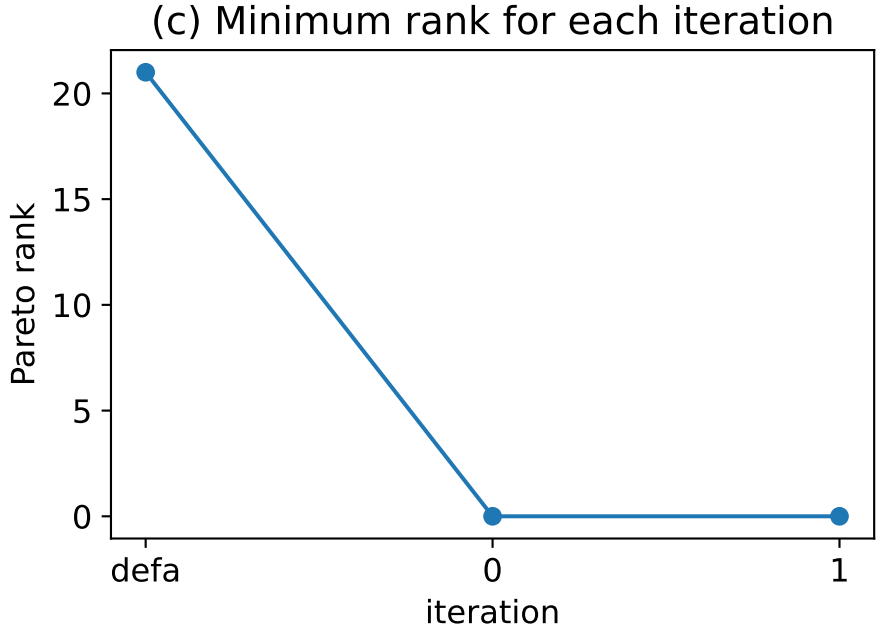




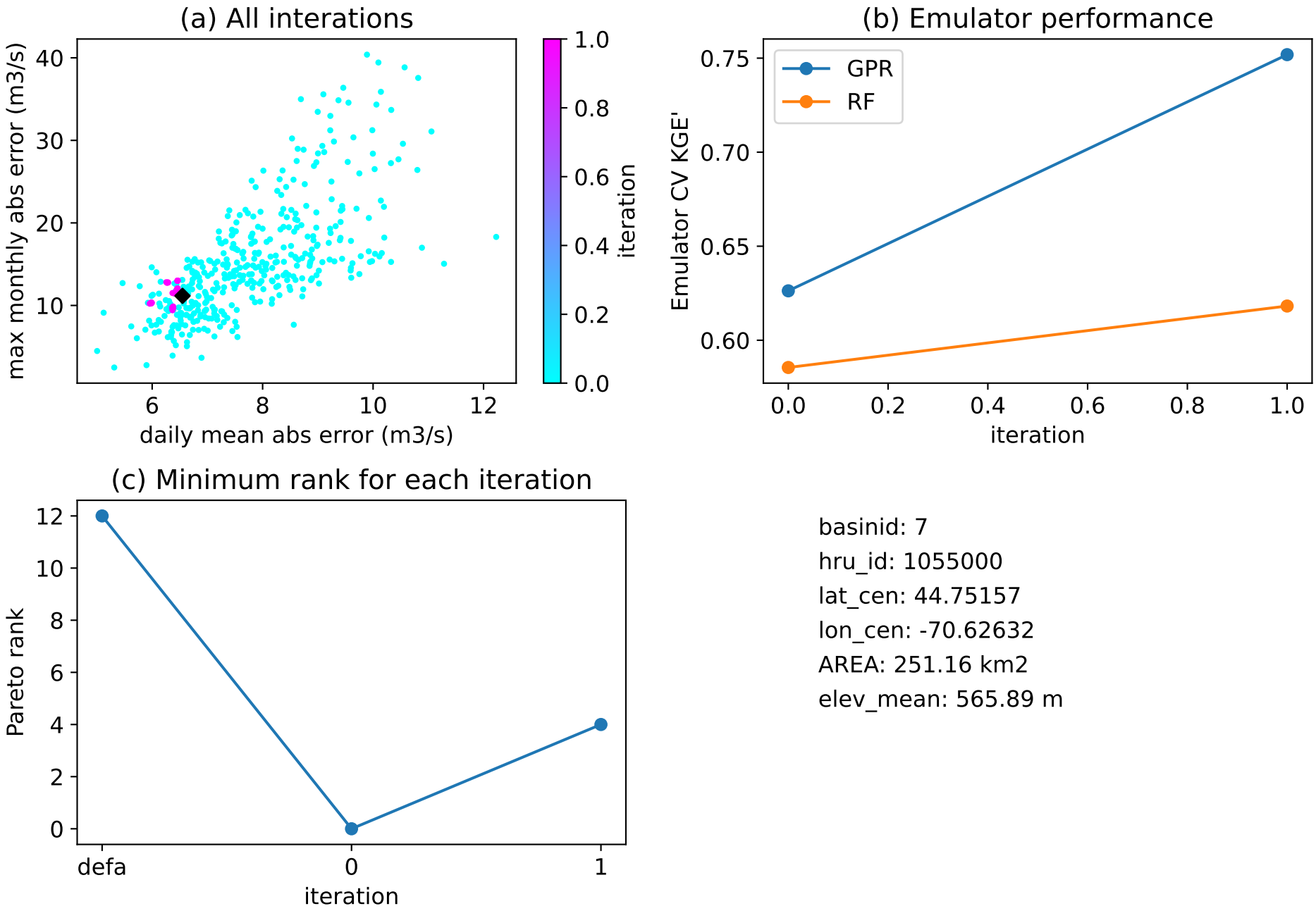
basinid: 5
hru_id: 1052500
lat_cen: 44.96168
lon_cen: -71.17197
AREA: 396.11 km2
elev_mean: 646.07 m

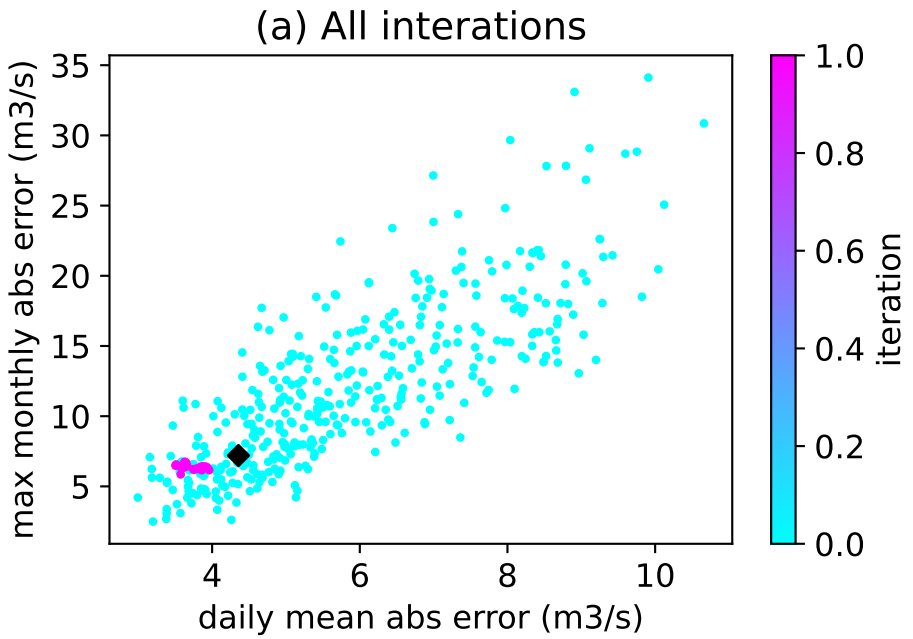


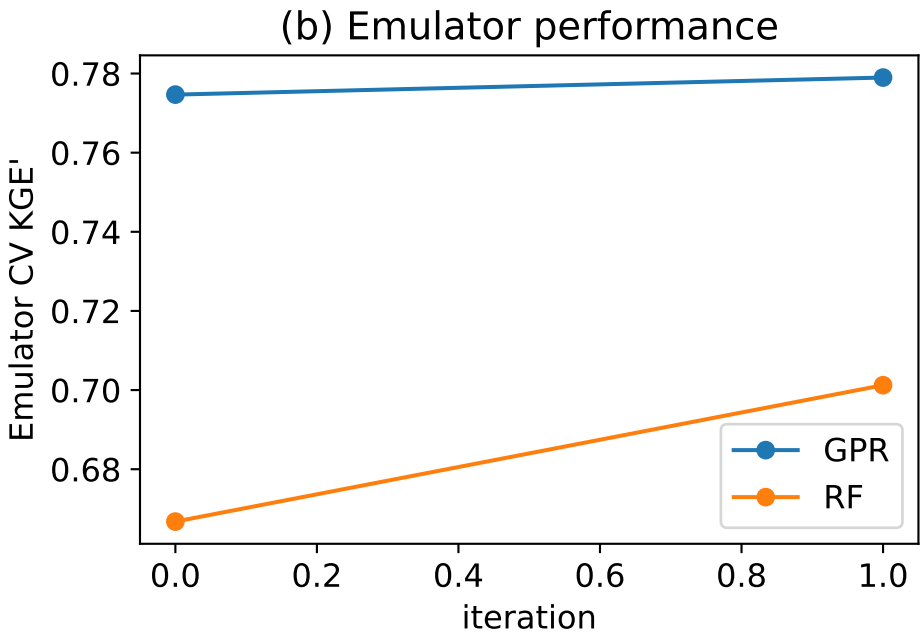


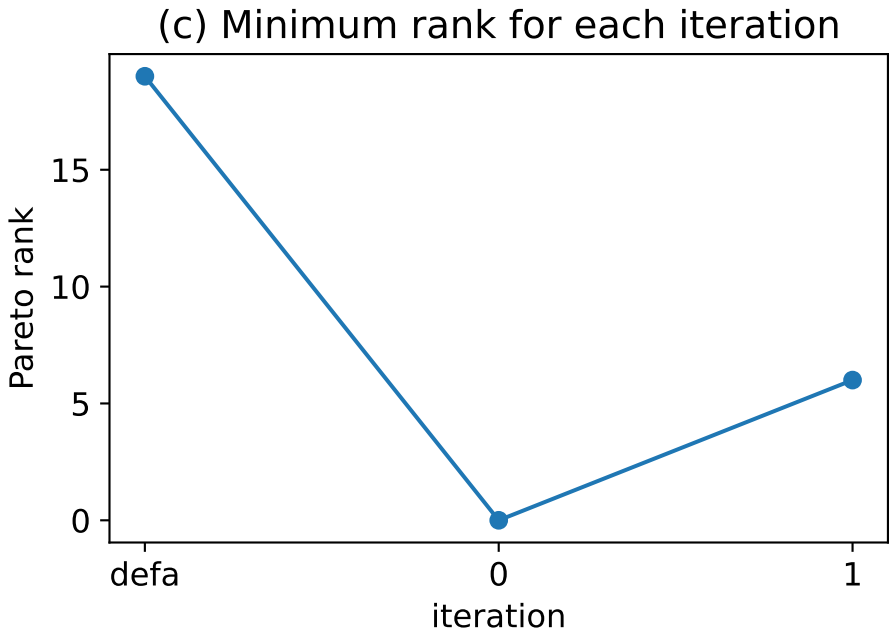


basinid: 6
hru_id: 1054200
lat_cen: 44.31072
lon_cen: -71.05872
AREA: 181.33 km2
elev_mean: 629.17 m

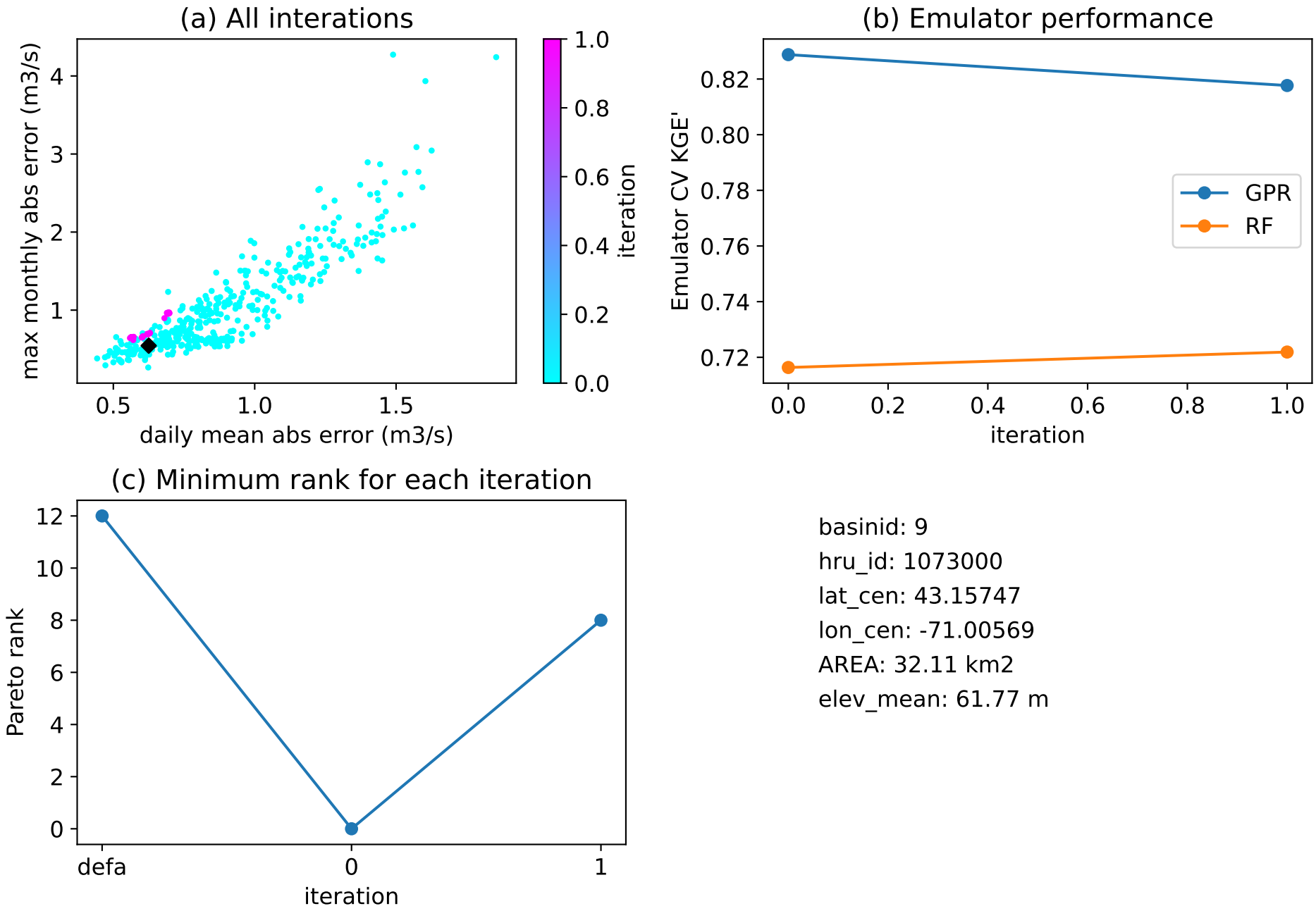

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 7
hru_id: 1055000
lat_cen: 44.75157
lon_cen: -70.62632
AREA: 251.16 km2
elev_mean: 565.89 m

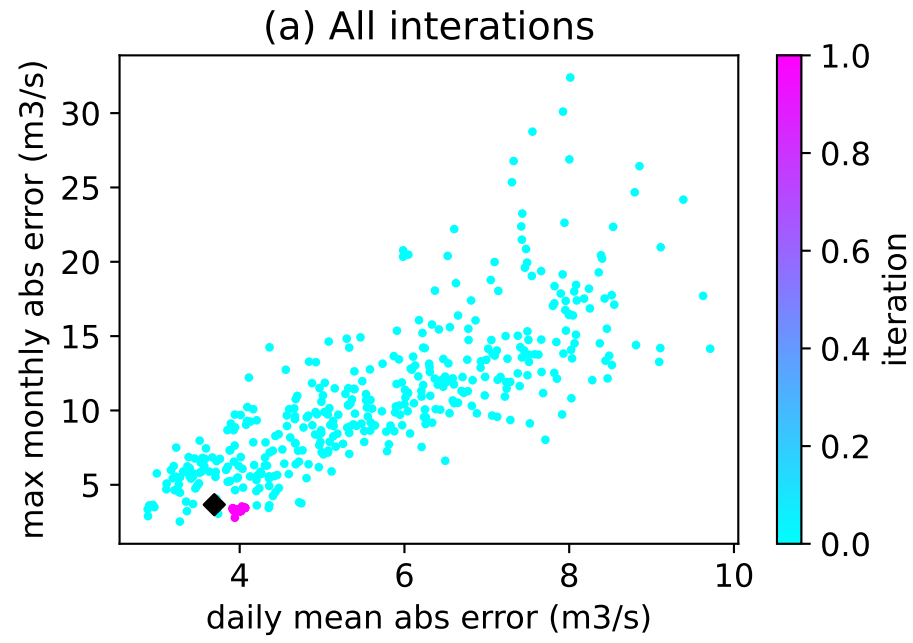


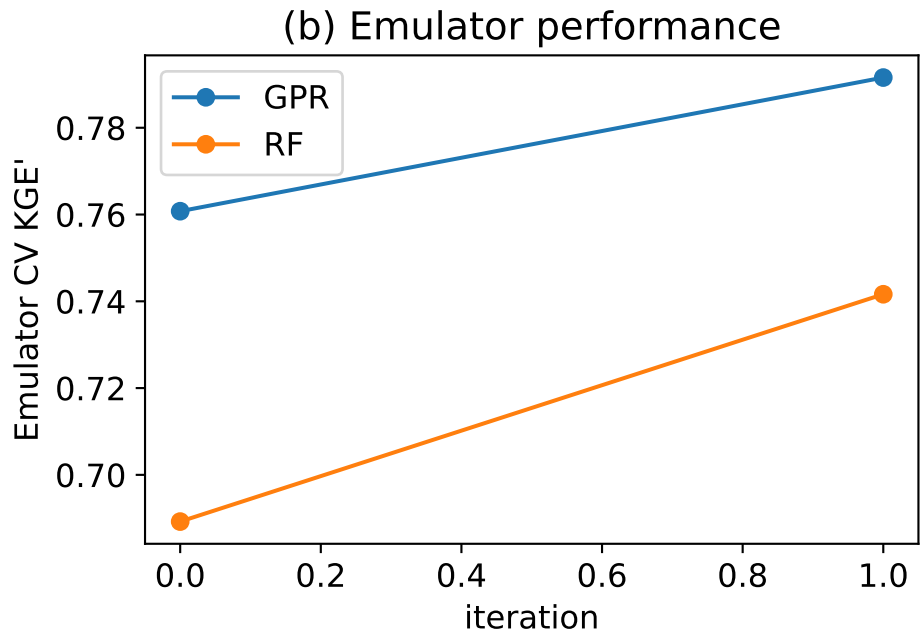


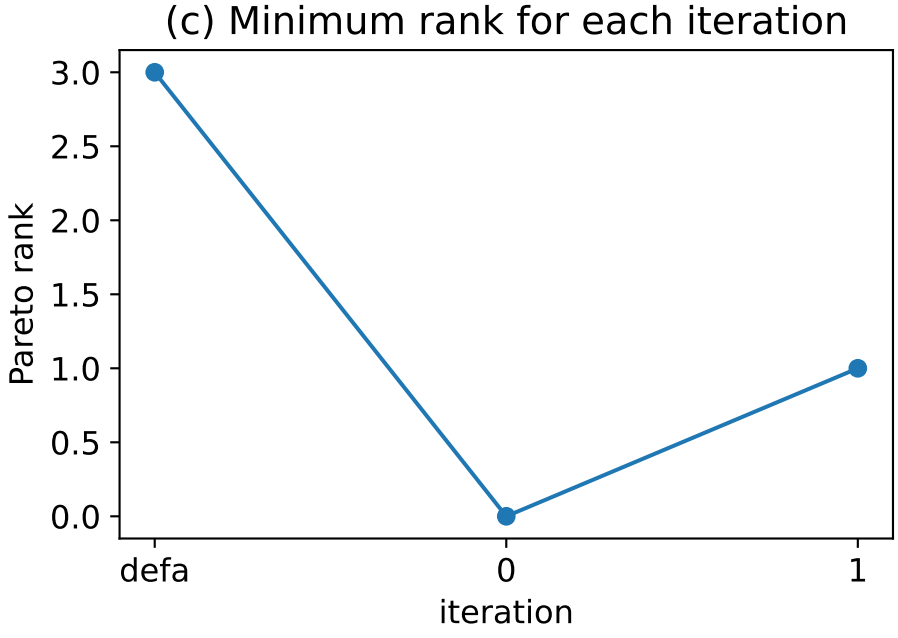


basinid: 8
hru_id: 1057000
lat_cen: 44.3434
lon_cen: -70.60039
AREA: 197.70 km2
elev_mean: 290.92 m

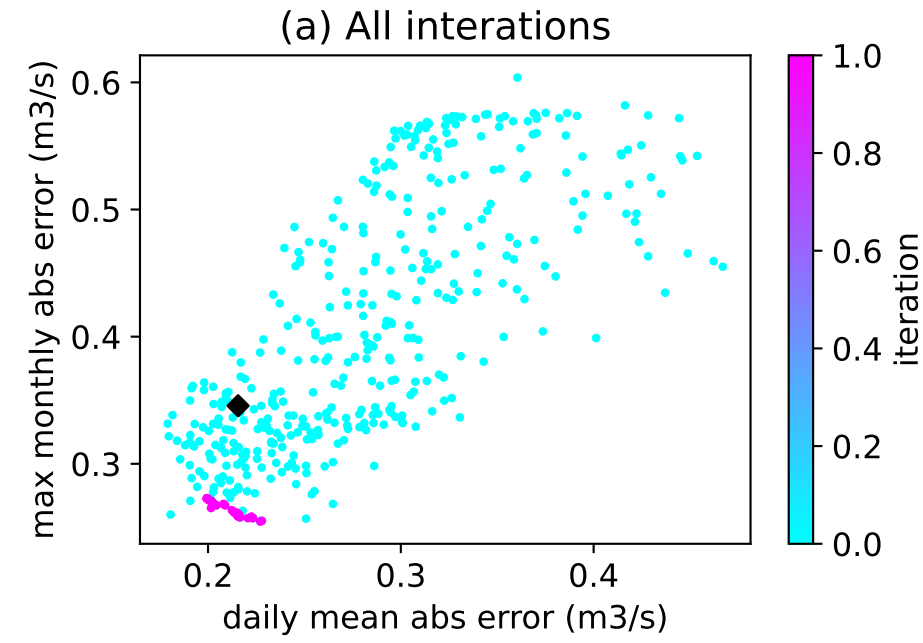

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 9
hru_id: 1073000
lat_cen: 43.15747
lon_cen: -71.00569
AREA: 32.11 km2
elev_mean: 61.77 m

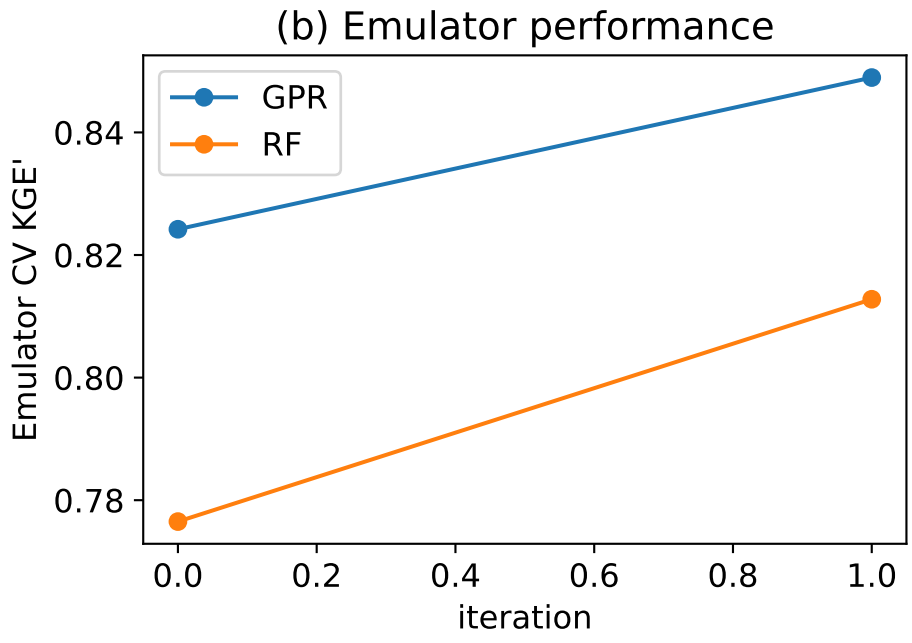


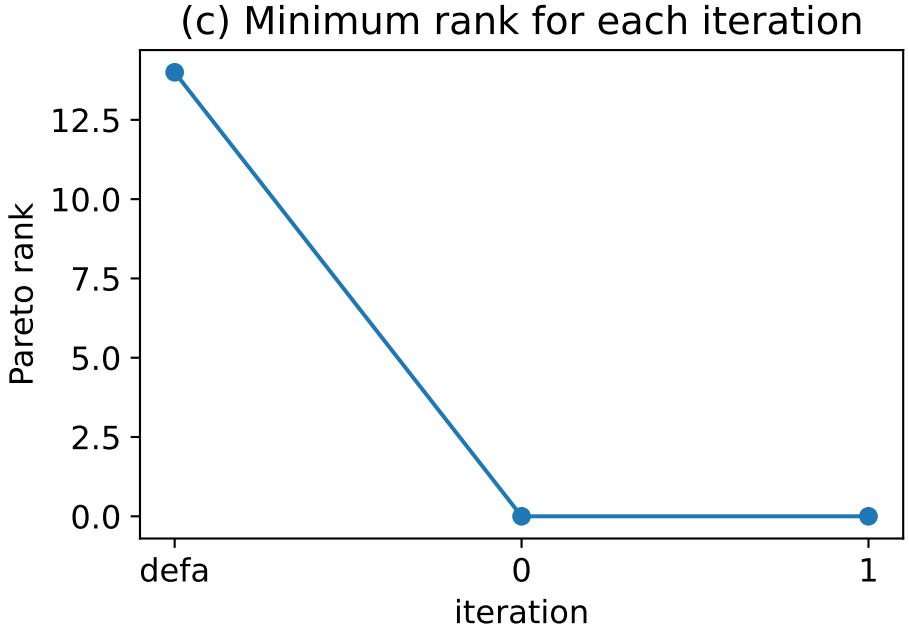




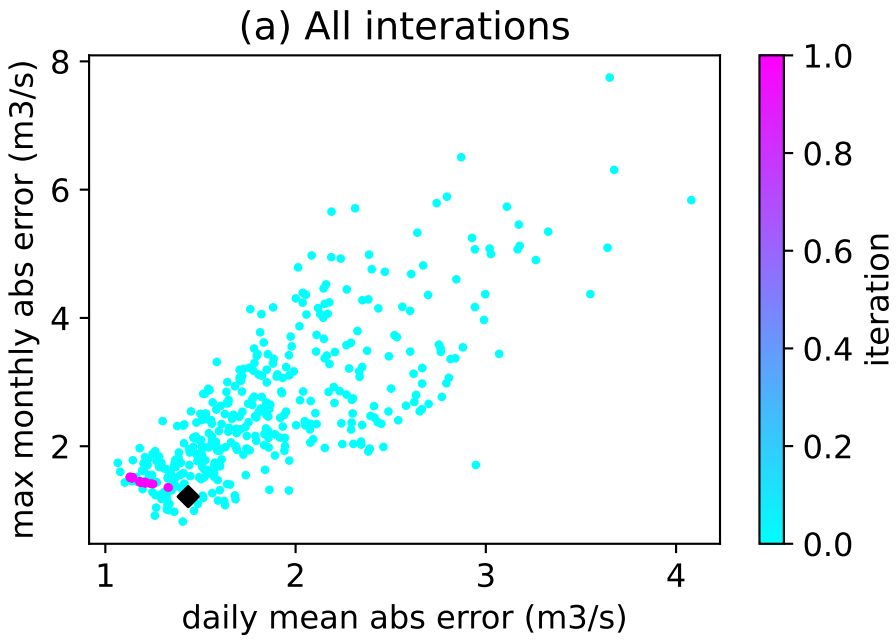
basinid: 10
hru_id: 1078000
lat_cen: 43.56186
lon_cen: -71.89296
AREA: 221.86 km2
elev_mean: 360.46 m

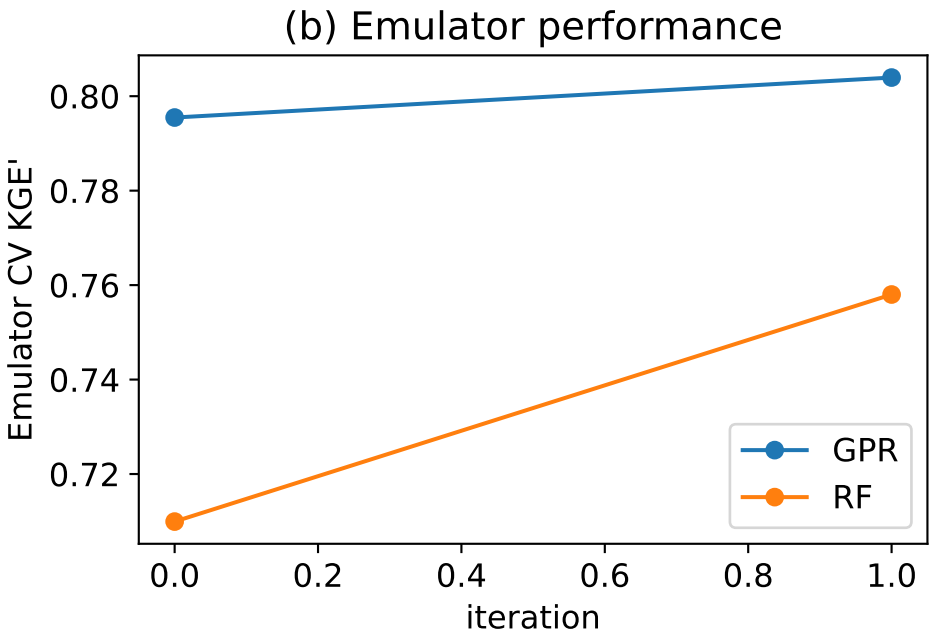


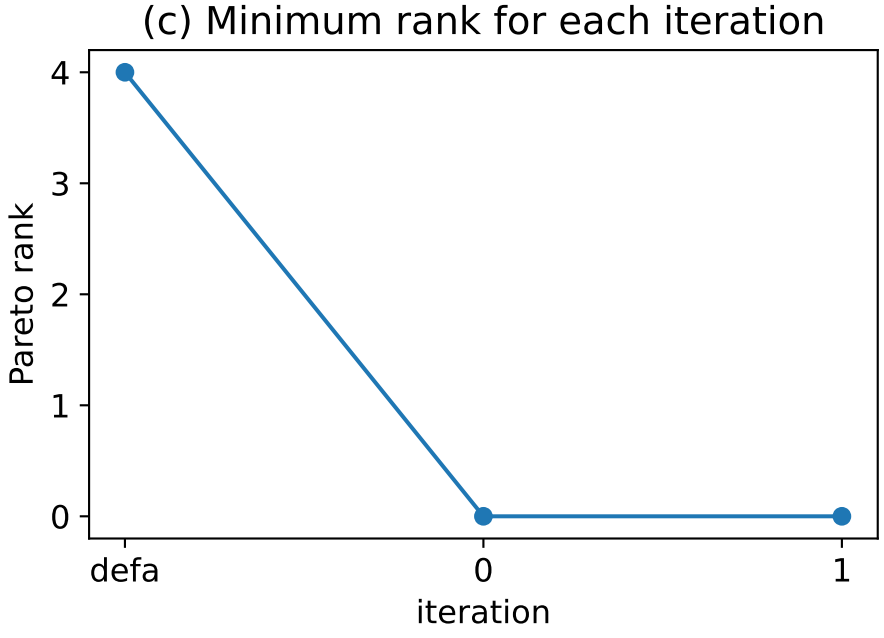




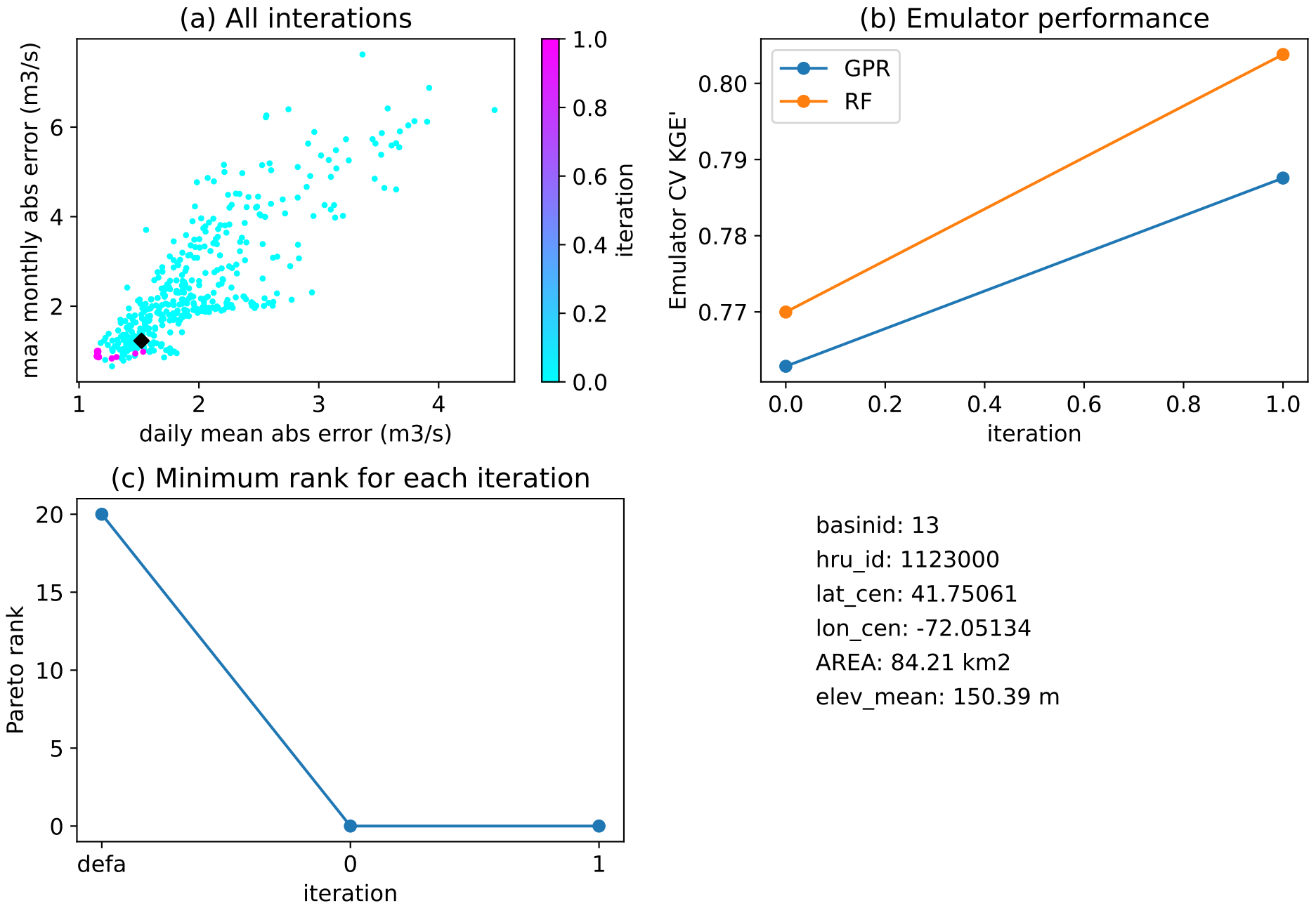
basinid: 11
hru_id: 1118300
lat_cen: 41.48743
lon_cen: -71.83983
AREA: 13.71 km2
elev_mean: 93.75 m

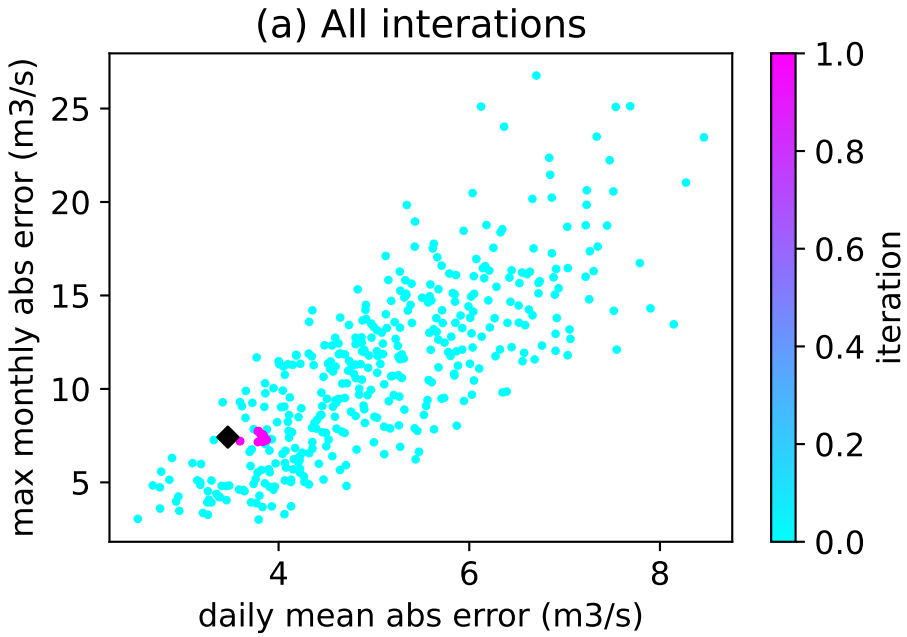


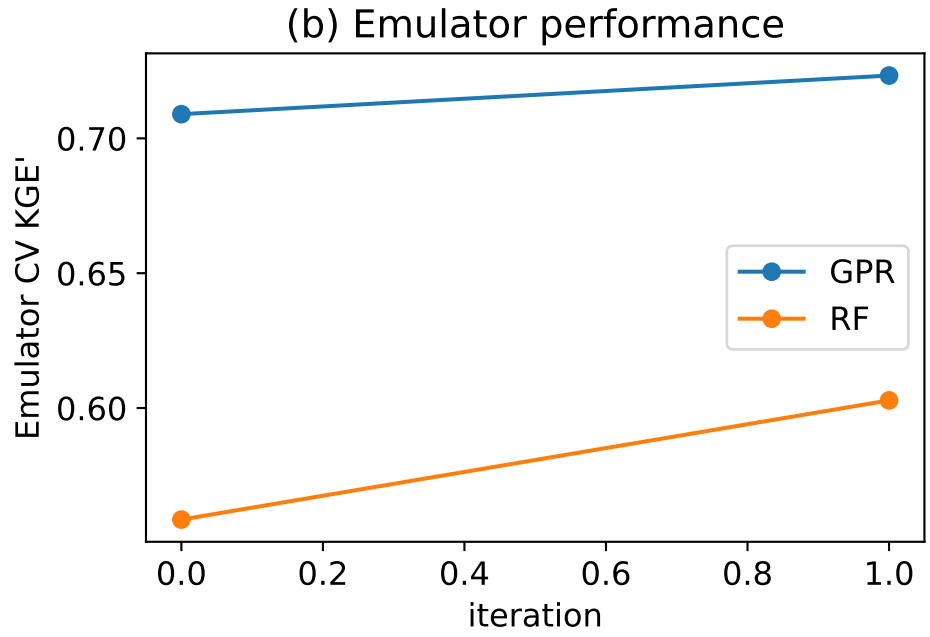


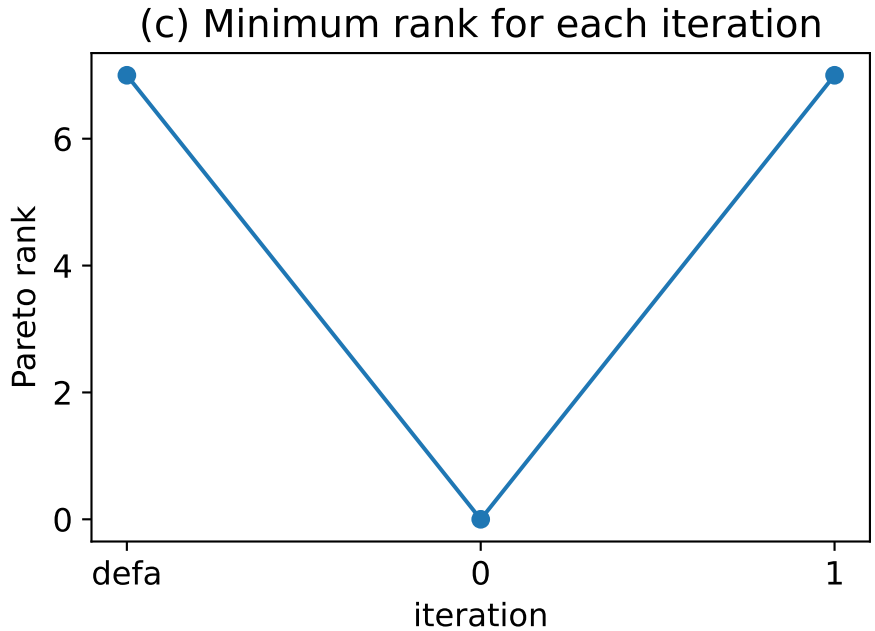


basinid: 12
hru_id: 1121000
lat_cen: 41.87382
lon_cen: -72.17296
AREA: 94.70 km2
elev_mean: 183.04 m

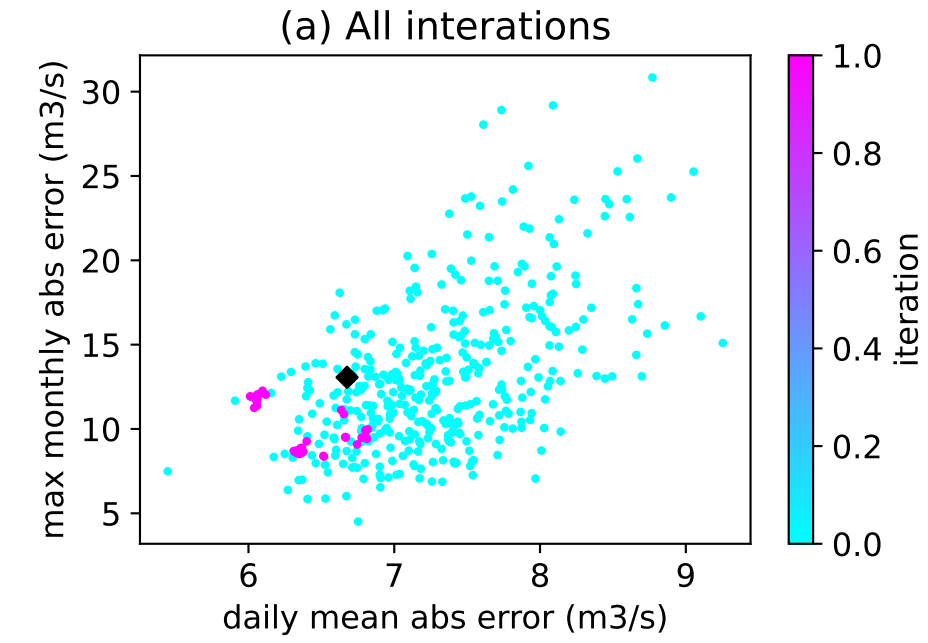

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 13
hru_id: 1123000
lat_cen: 41.75061
lon_cen: -72.05134
AREA: 84.21 km2
elev_mean: 150.39 m

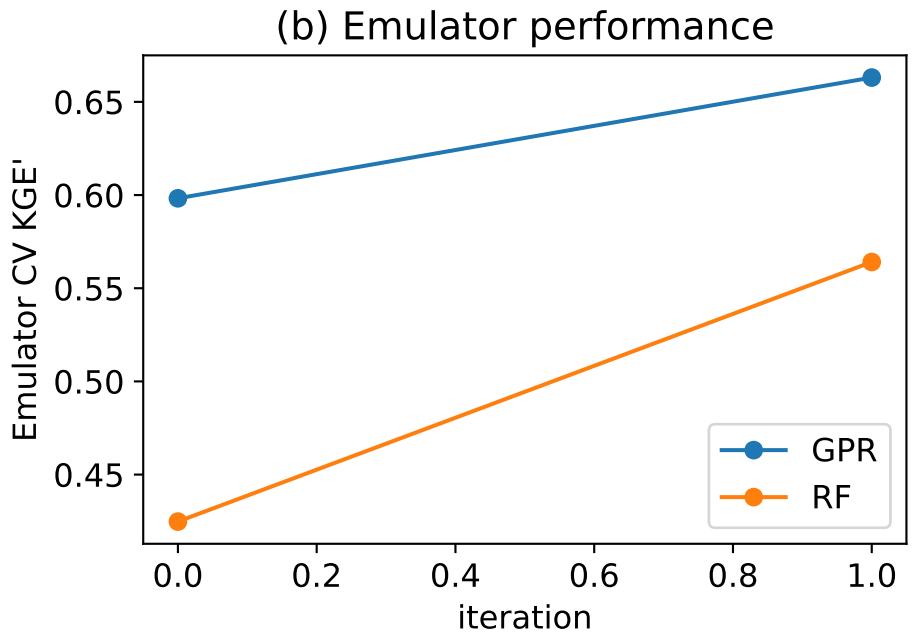


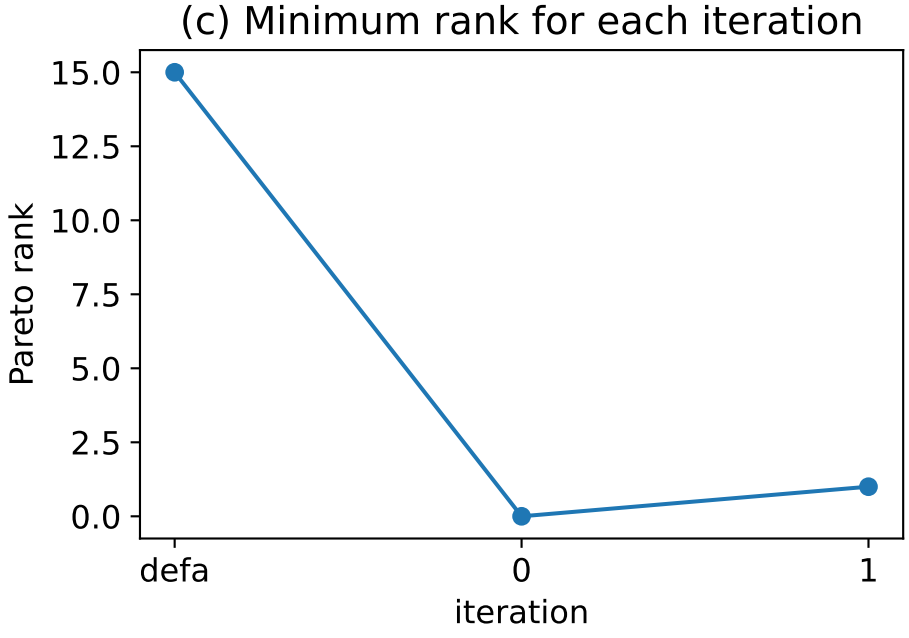




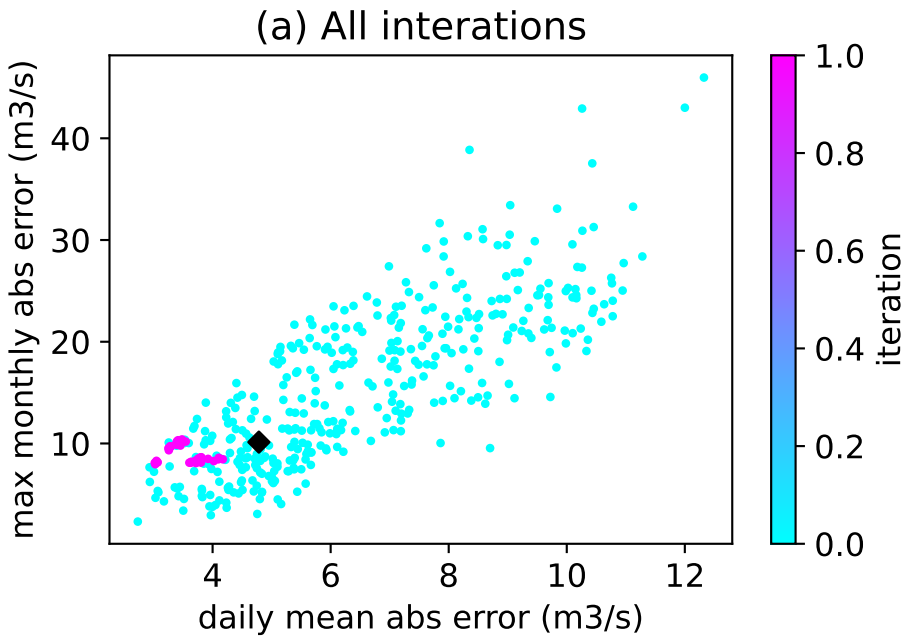
basinid: 14
hru_id: 1134500
lat_cen: 44.57153
lon_cen: -71.80225
AREA: 209.51 km2
elev_mean: 535.54 m

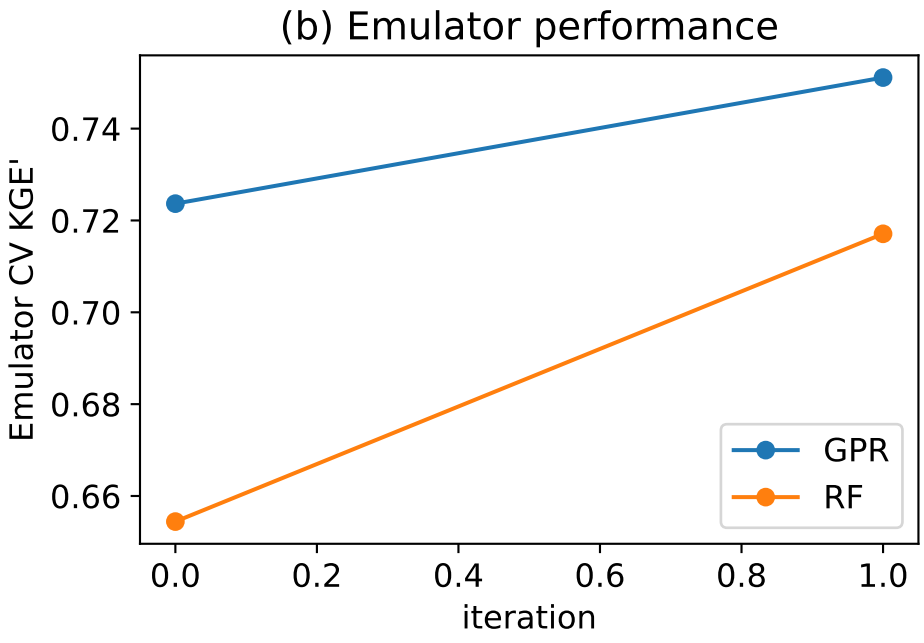


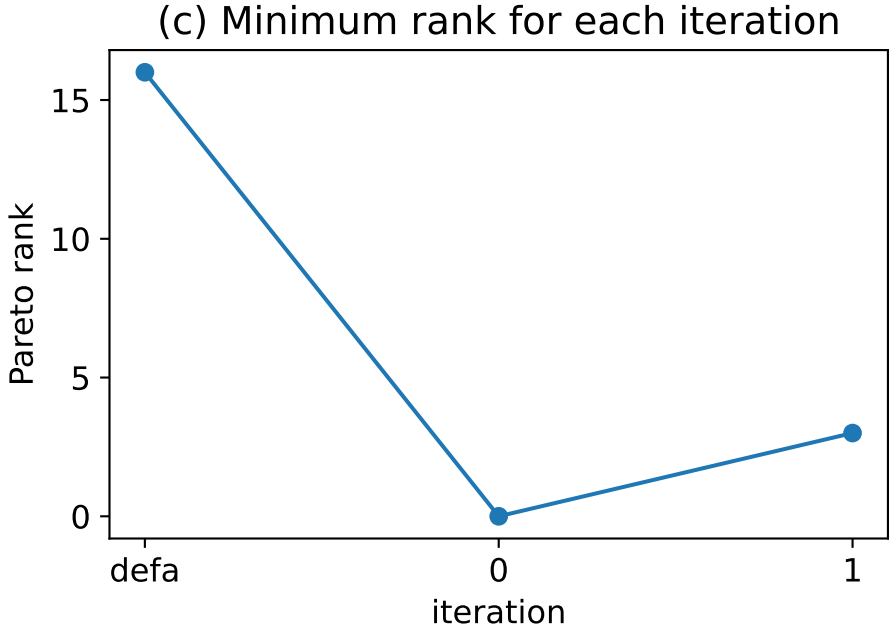




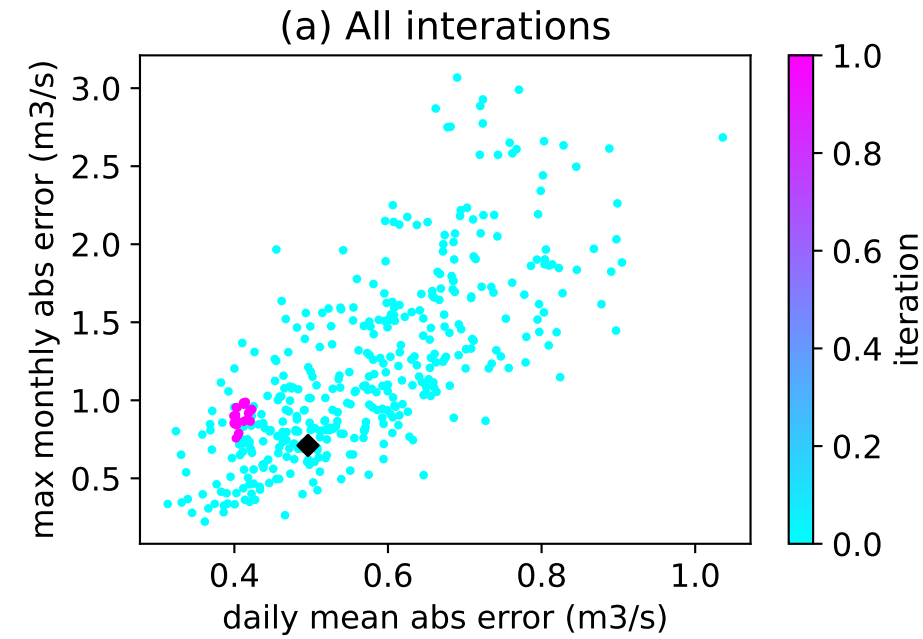
basinid: 15
hru_id: 1137500
lat_cen: 44.25389
lon_cen: -71.47415
AREA: 238.33 km2
elev_mean: 717.69 m

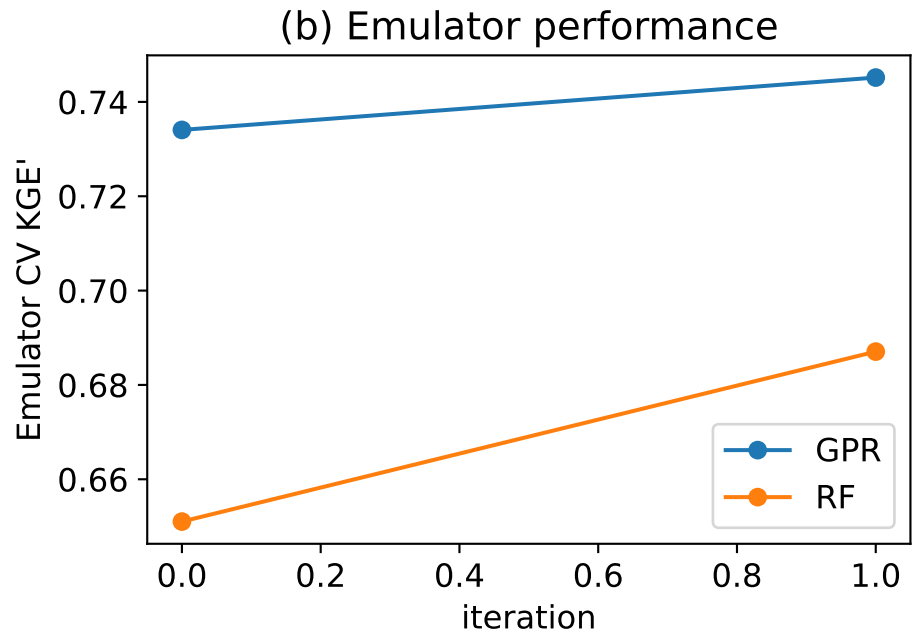


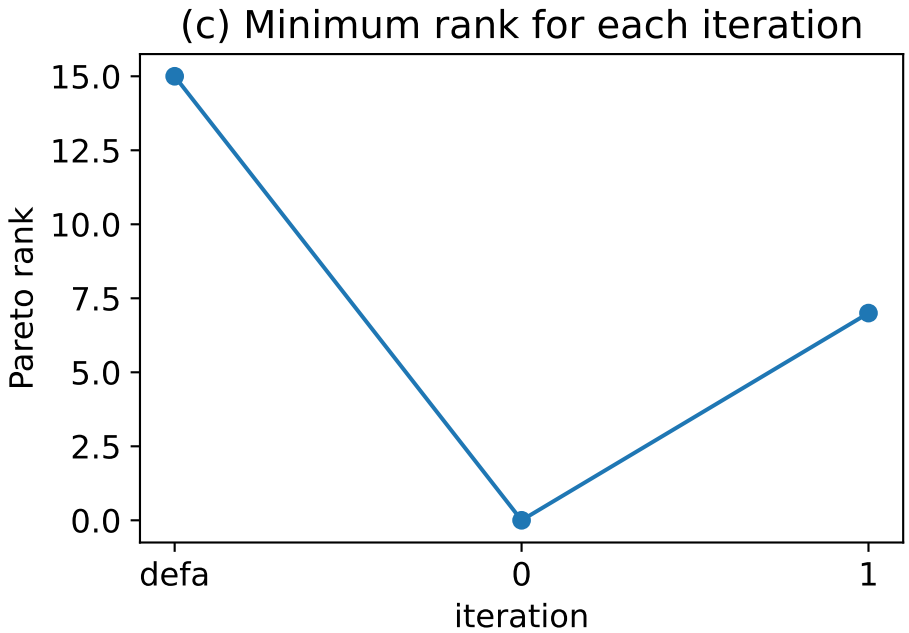




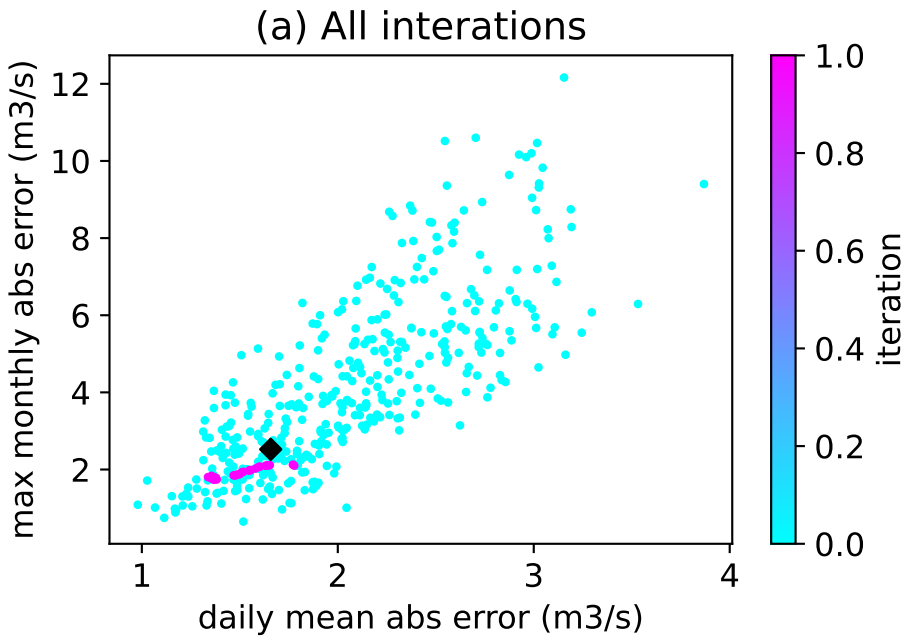
basinid: 16
hru_id: 1139000
lat_cen: 44.21836
lon_cen: -72.21213
AREA: 259.51 km2
elev_mean: 416.47 m

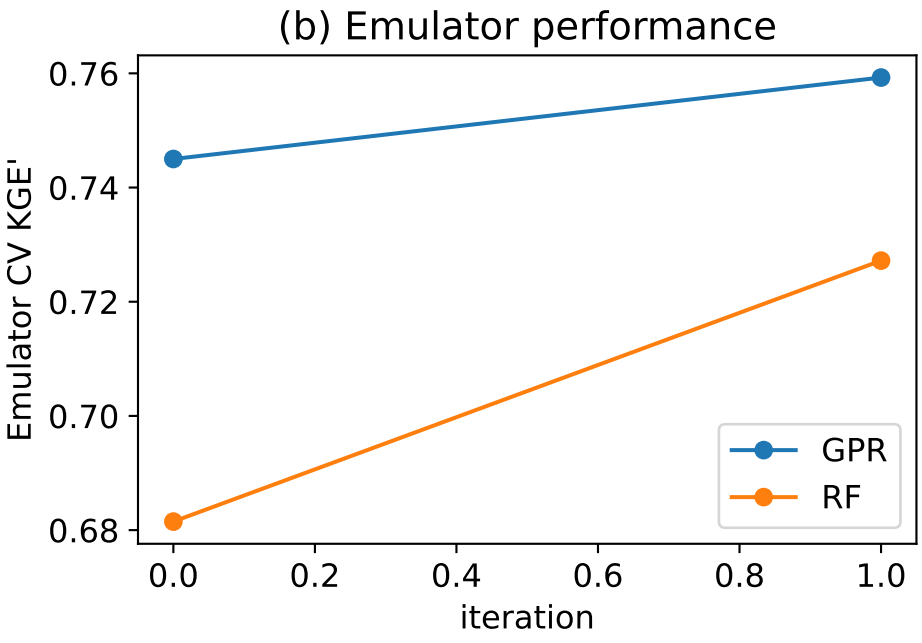


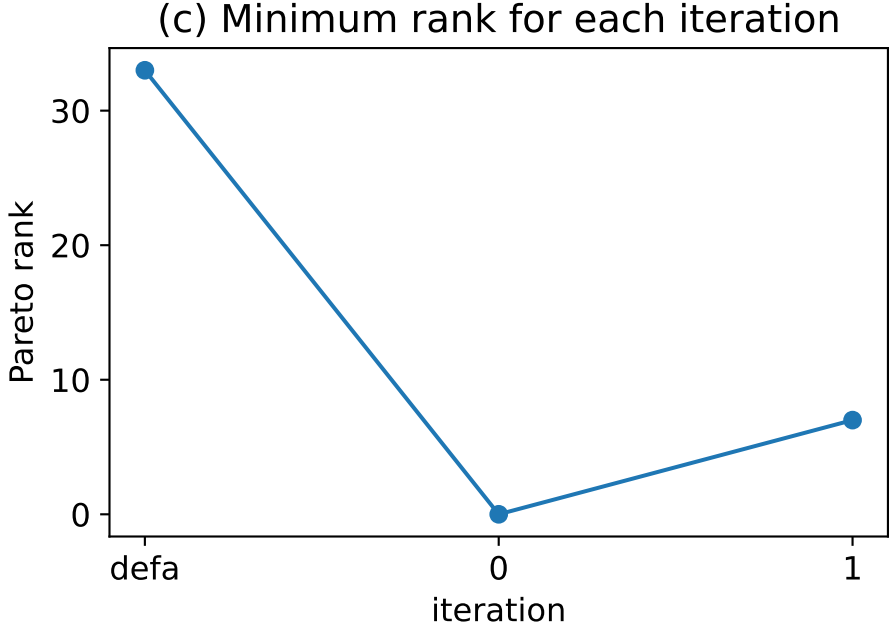




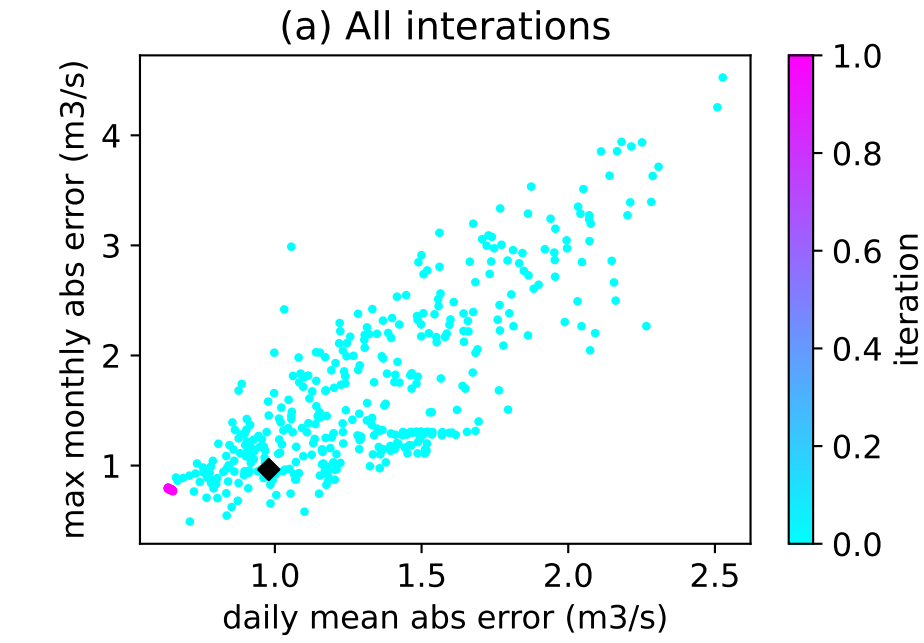
basinid: 17
hru_id: 1139800
lat_cen: 44.09478
lon_cen: -72.36594
AREA: 24.92 km2
elev_mean: 545.12 m

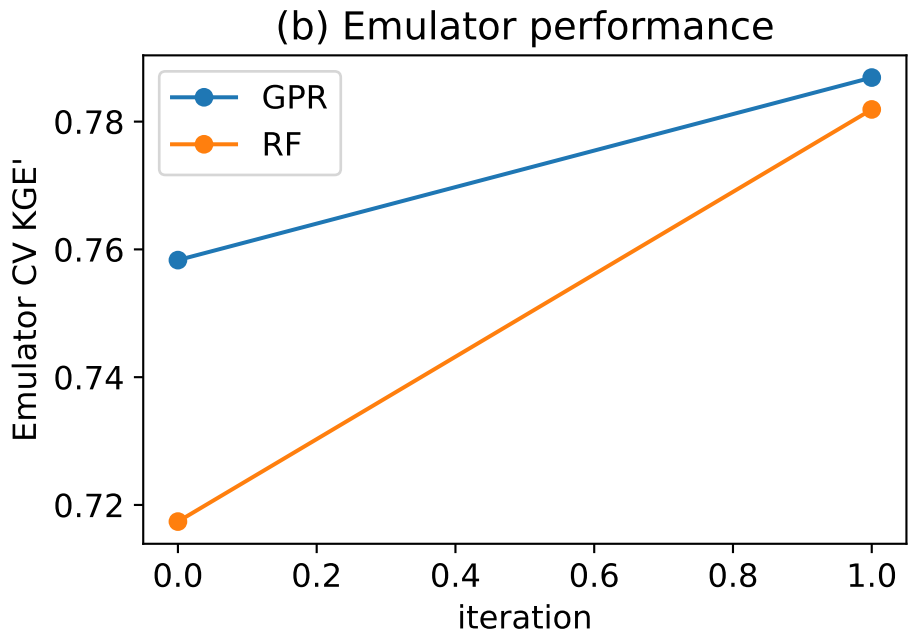


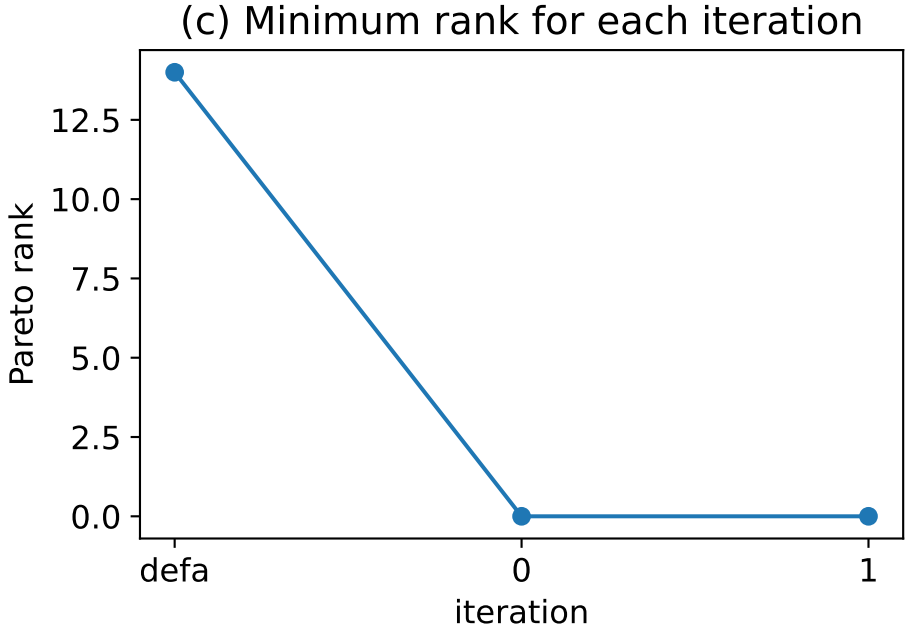




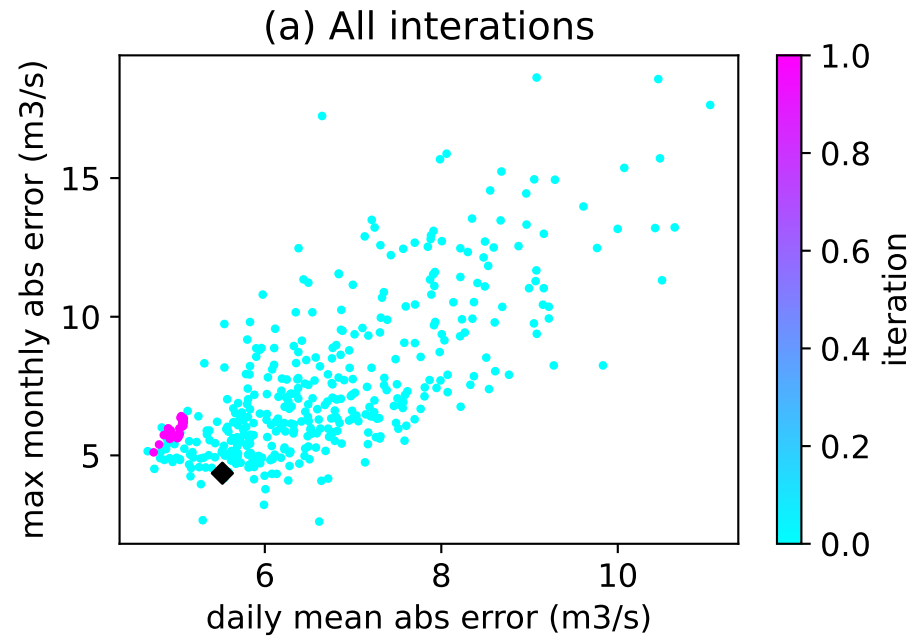
basinid: 18
hru_id: 1142500
lat_cen: 44.00276
lon_cen: -72.66255
AREA: 79.91 km2
elev_mean: 405.91 m

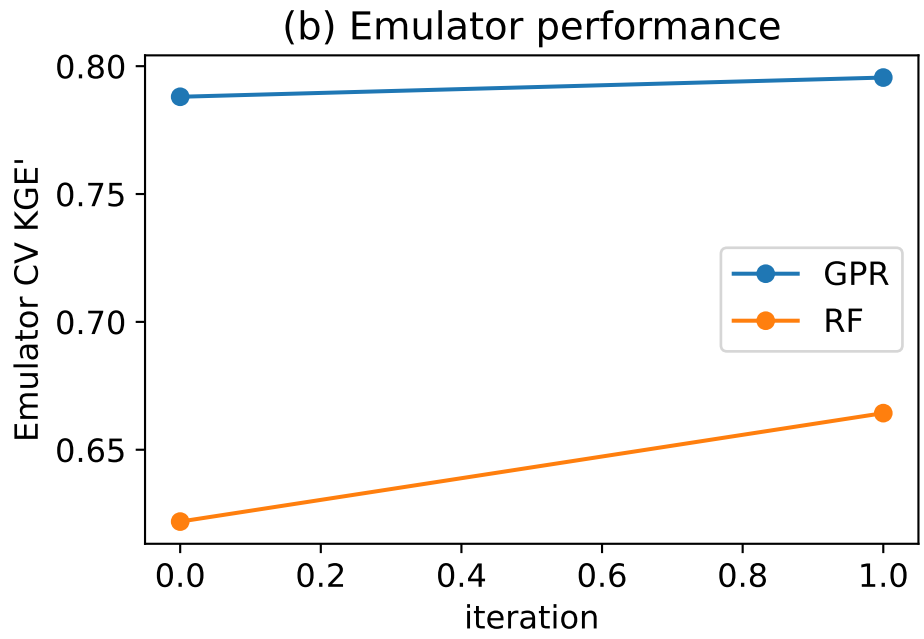


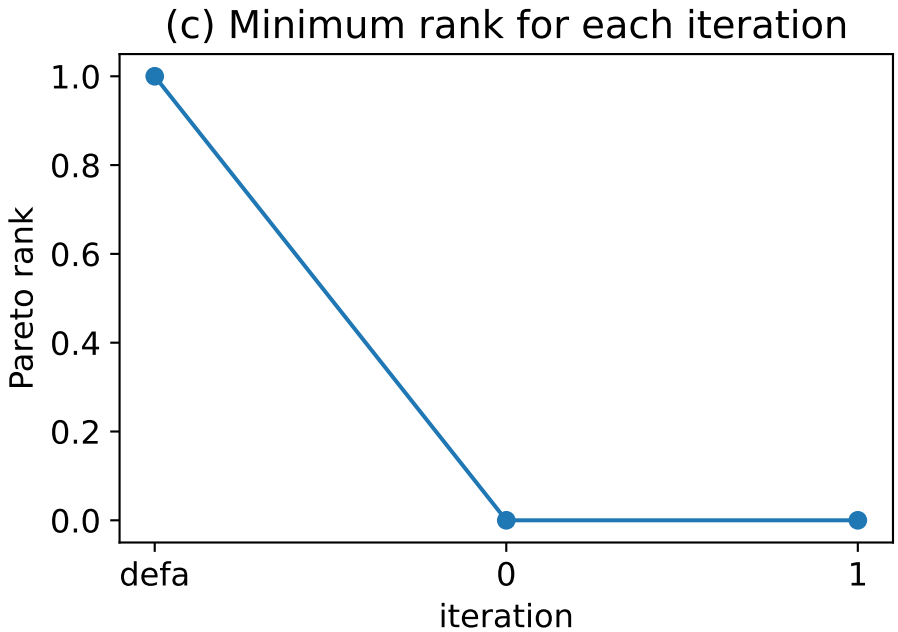




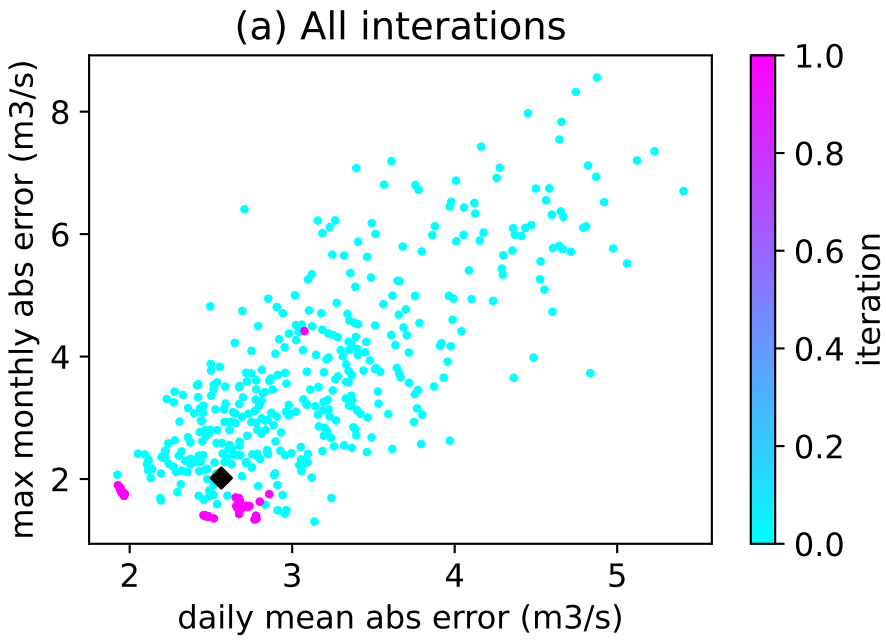
basinid: 19
hru_id: 1162500
lat_cen: 42.75409
lon_cen: -72.14154
AREA: 77.93 km2
elev_mean: 338.22 m

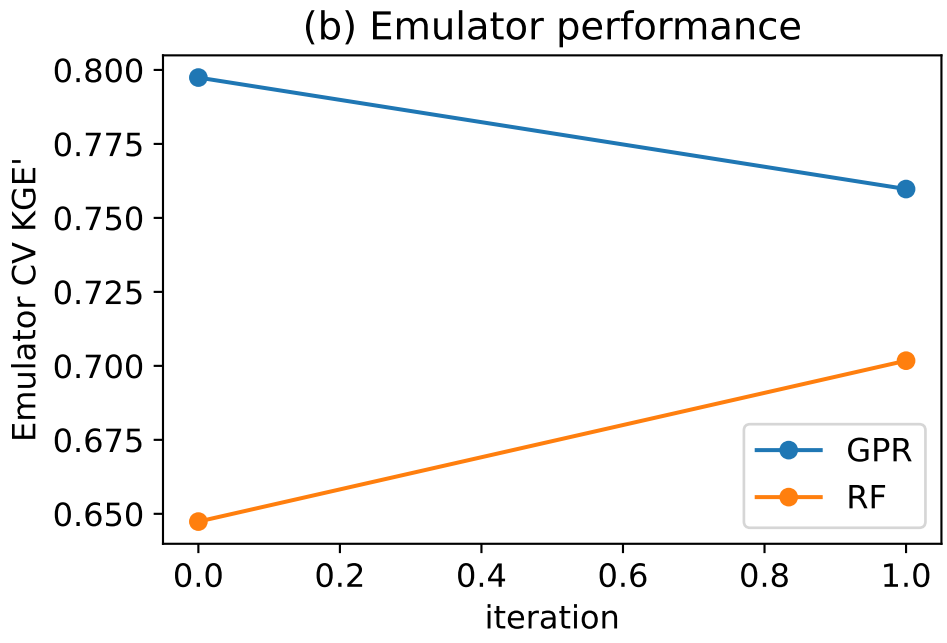


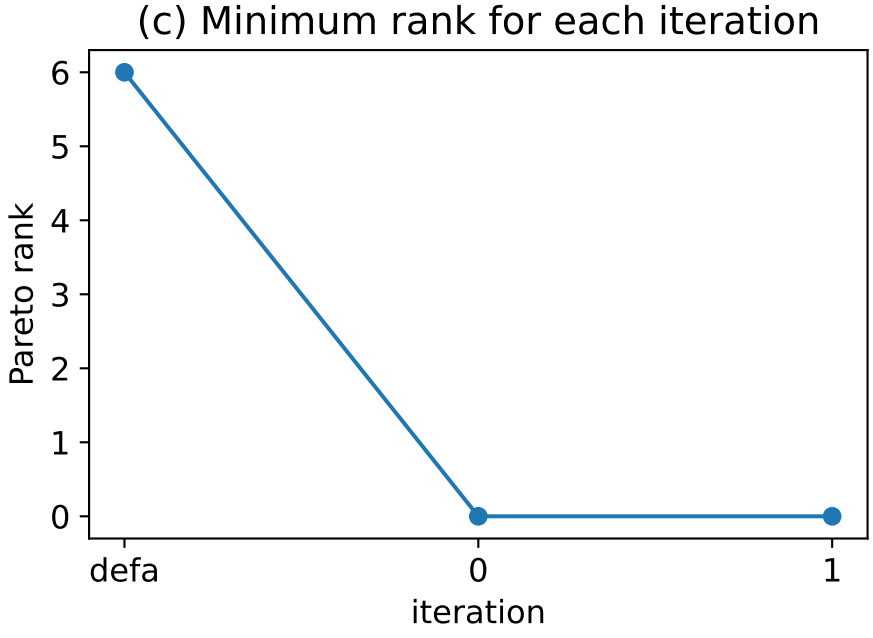




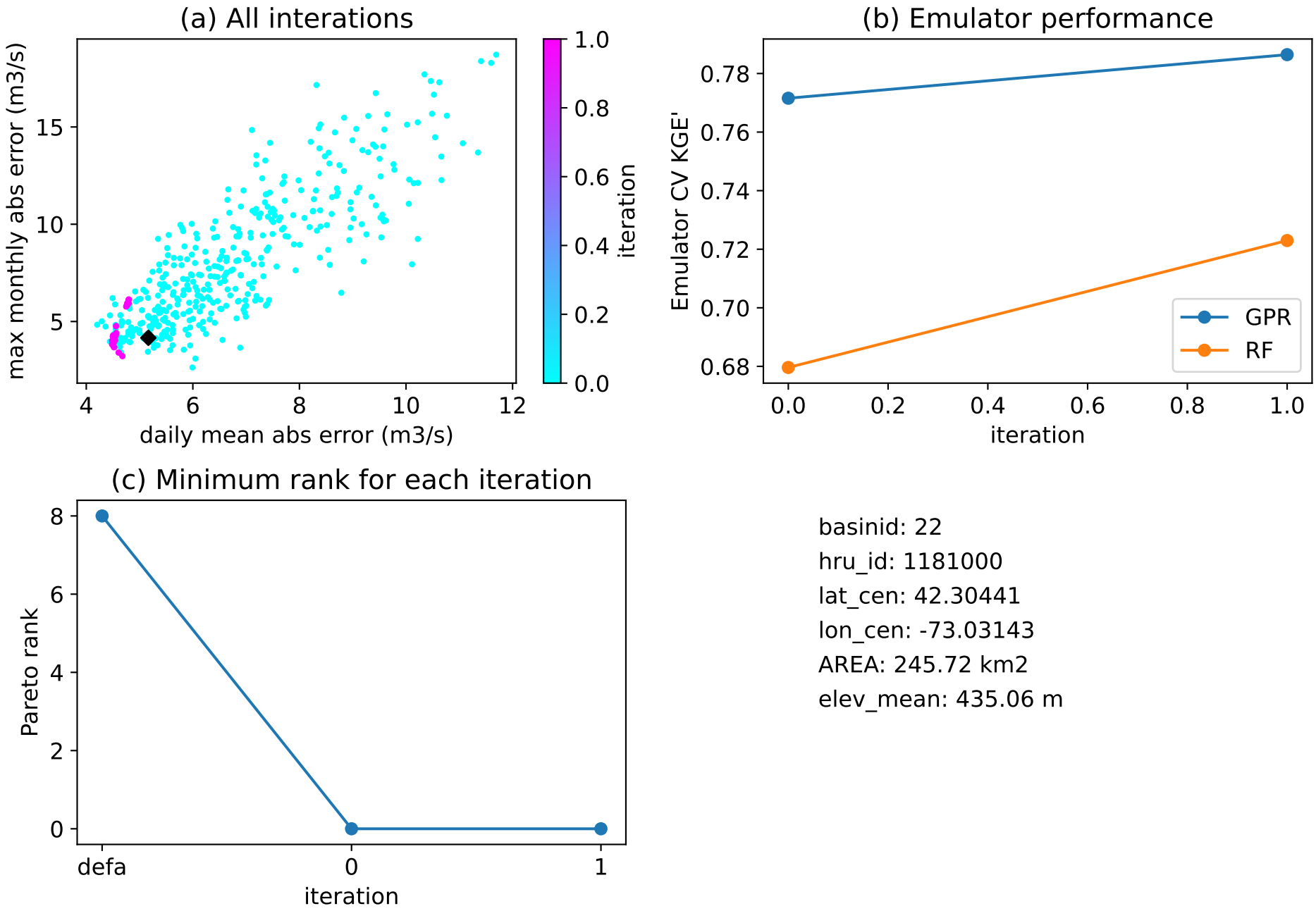
basinid: 20
hru_id: 1169000
lat_cen: 42.73597
lon_cen: -72.77633
AREA: 233.89 km2
elev_mean: 437.12 m

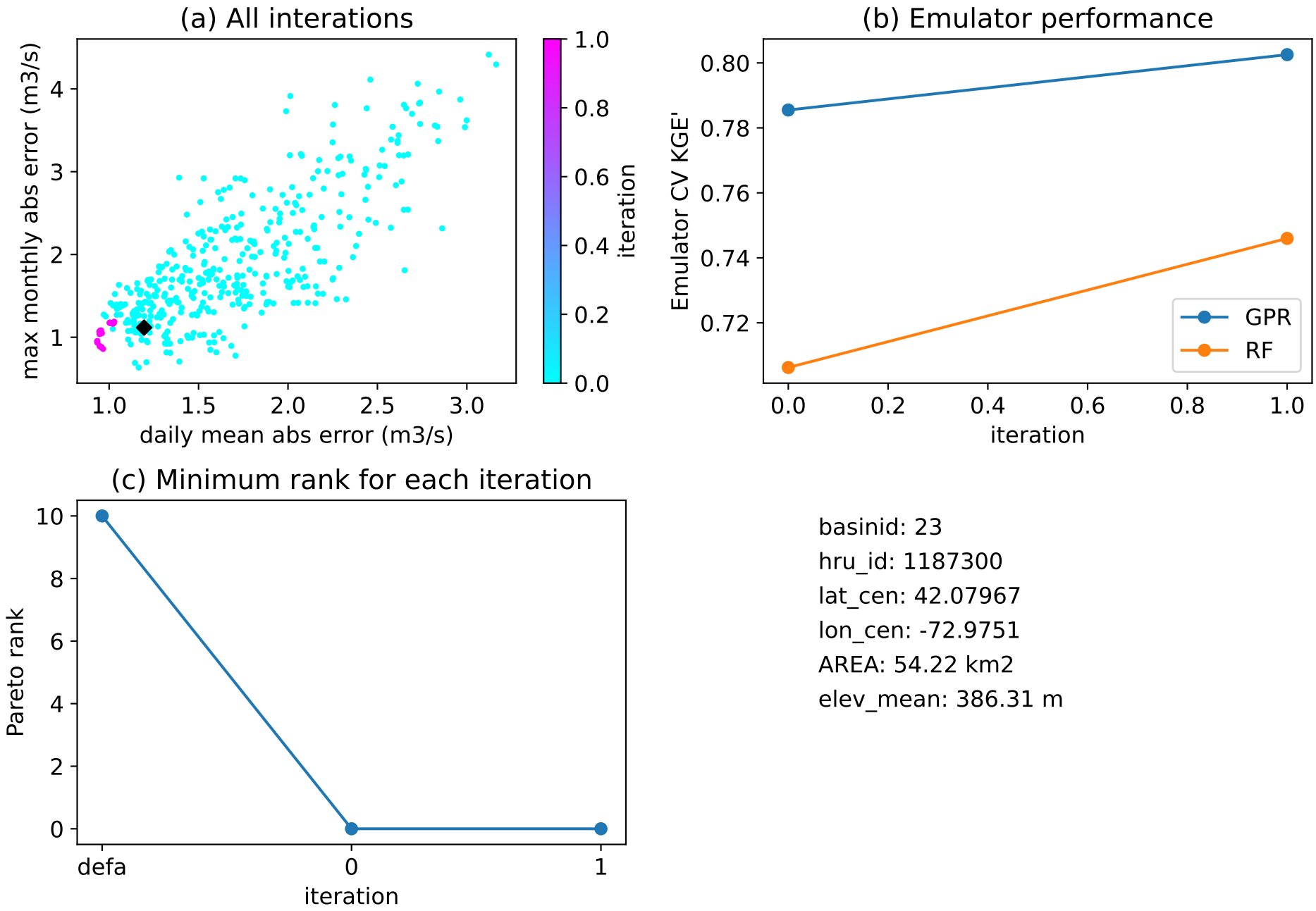


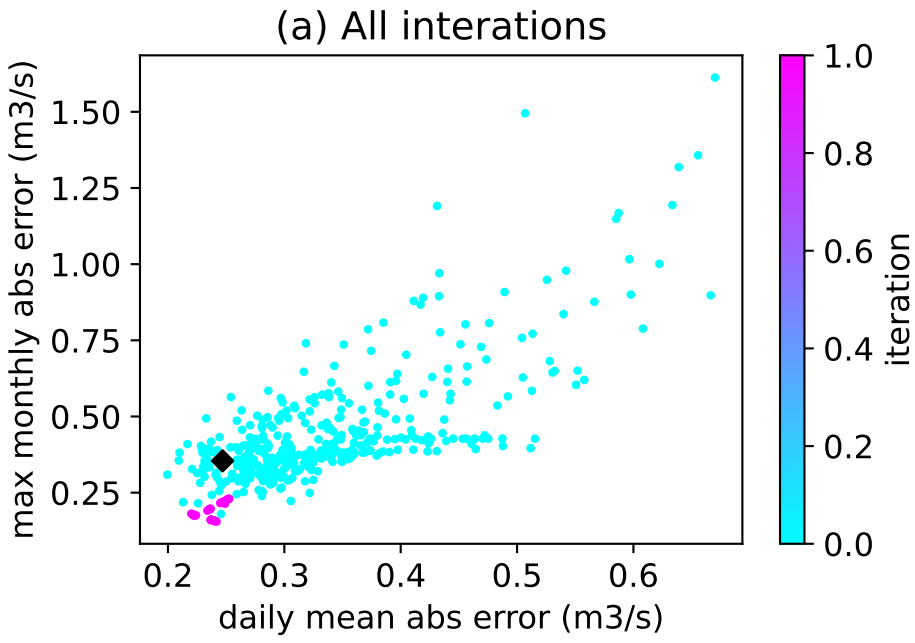


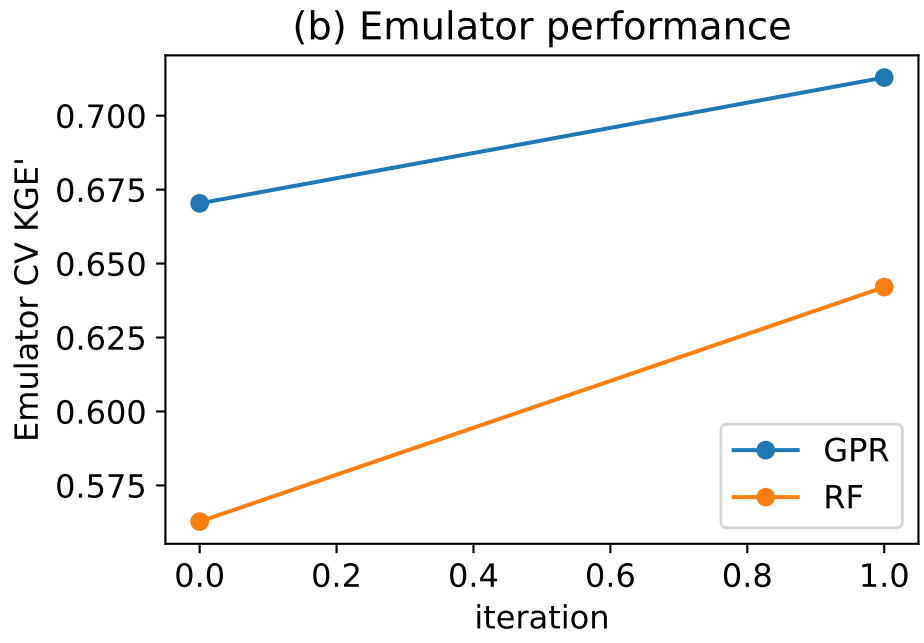


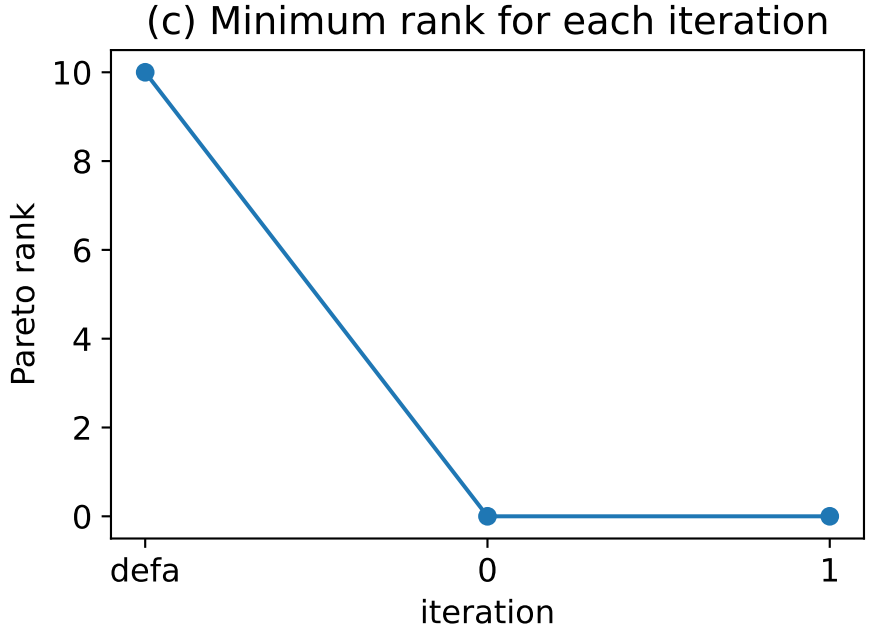
basinid: 21
hru_id: 1170100
lat_cen: 42.79432
lon_cen: -72.70524
AREA: 109.26 km2
elev_mean: 421.47 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 22
hru_id: 1181000
lat_cen: 42.30441
lon_cen: -73.03143
AREA: 245.72 km2
elev_mean: 435.06 m

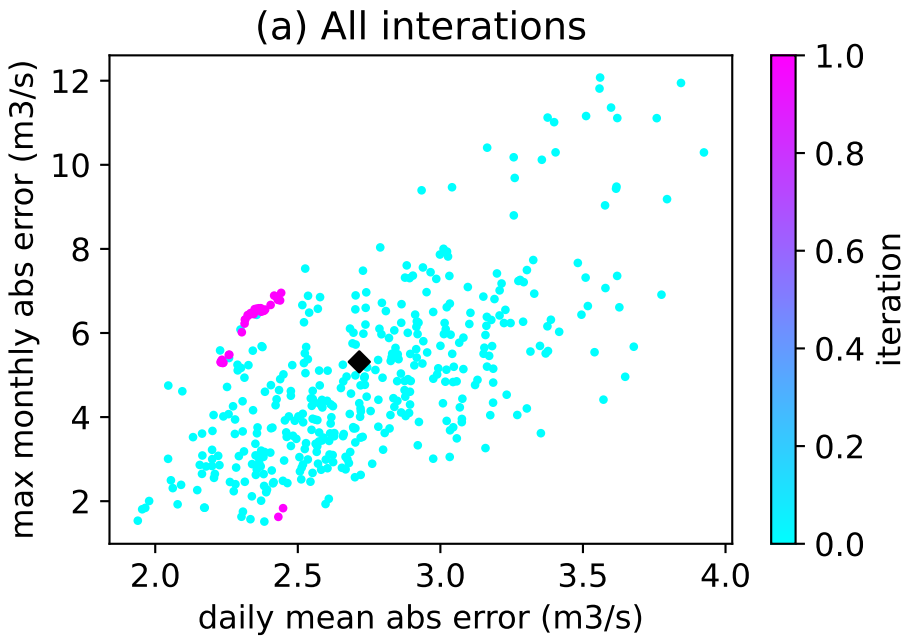

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 23
hru_id: 1187300
lat_cen: 42.07967
lon_cen: -72.9751
AREA: 54.22 km2
elev_mean: 386.31 m

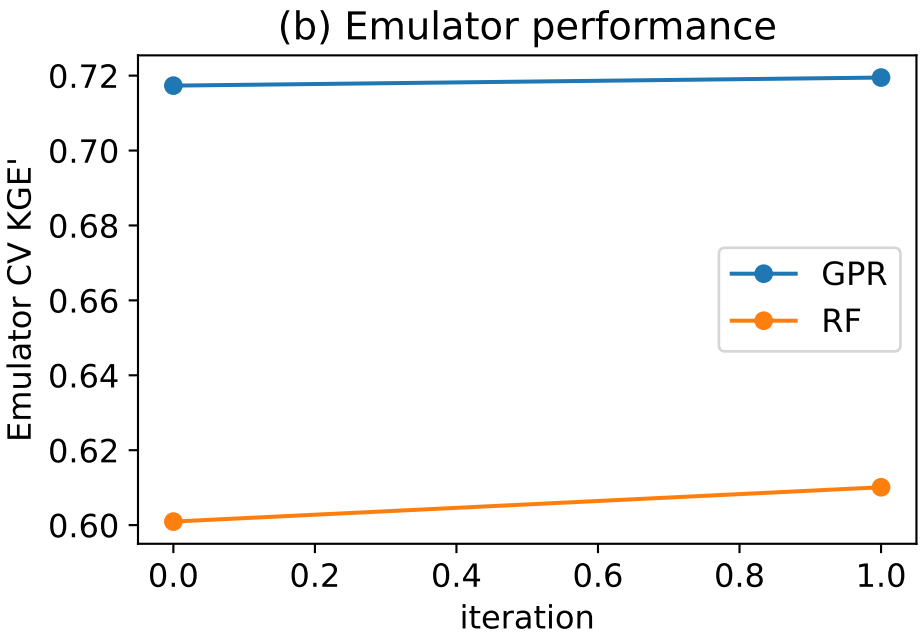


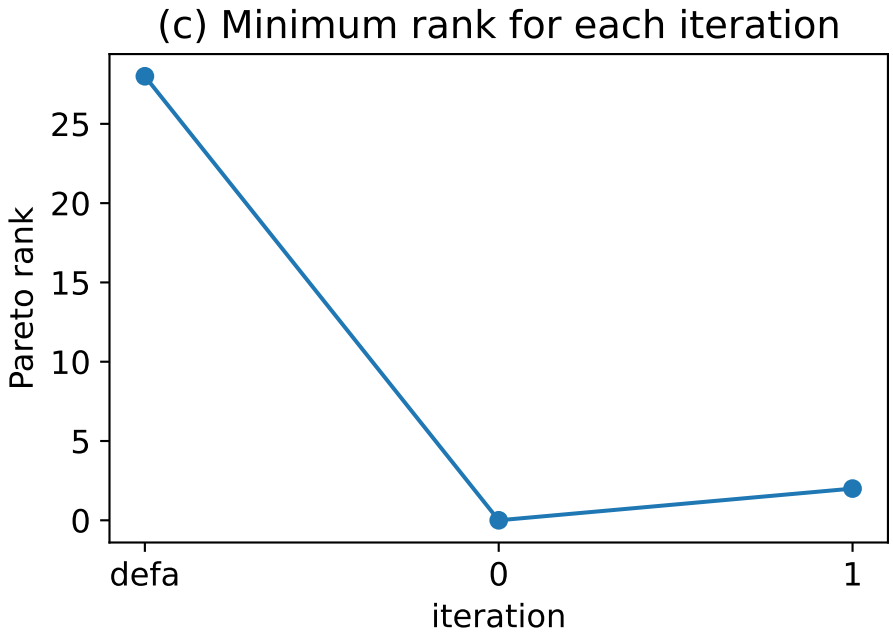




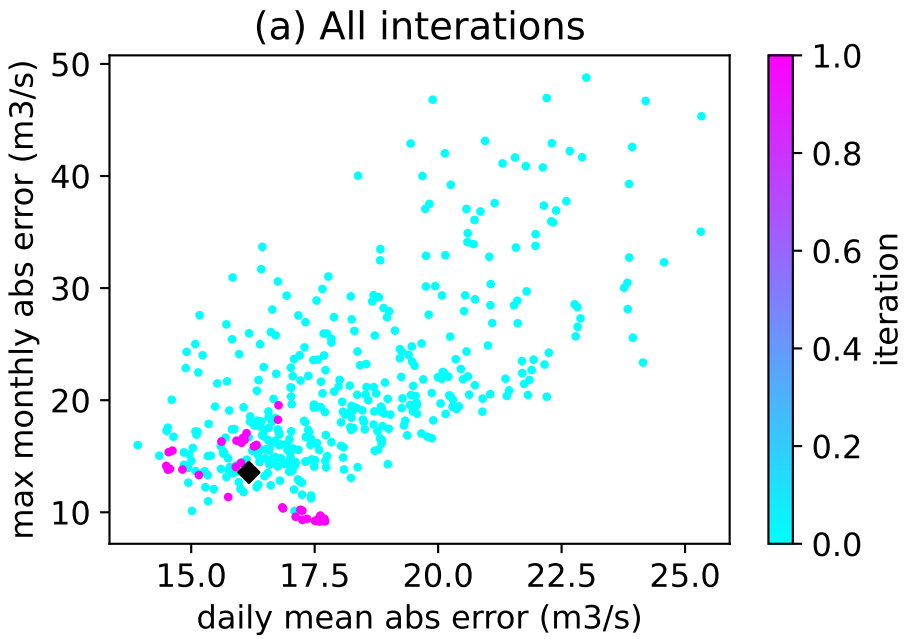
basinid: 24
hru_id: 1195100
lat_cen: 41.32971
lon_cen: -72.54759
AREA: 15.96 km2
elev_mean: 60.40 m

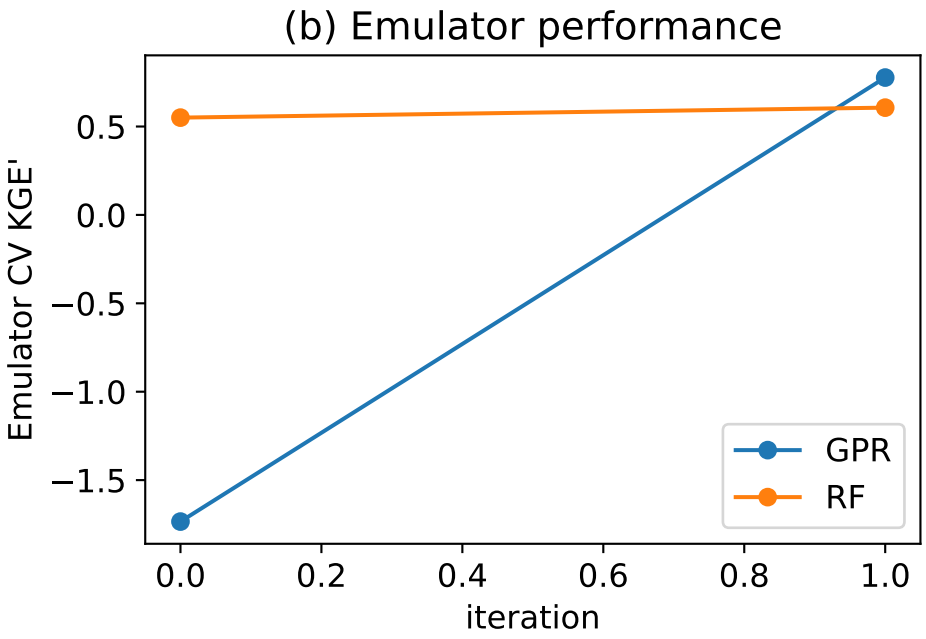


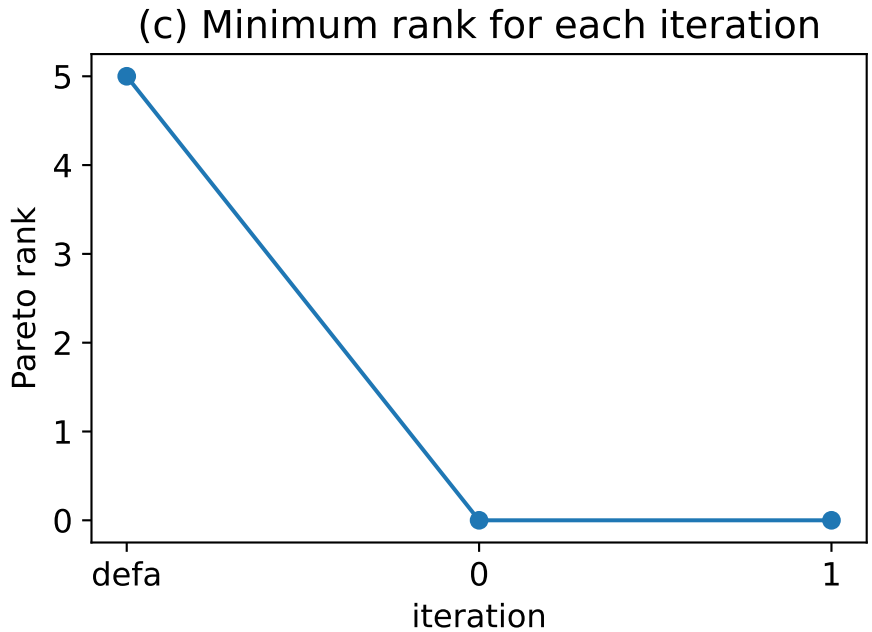




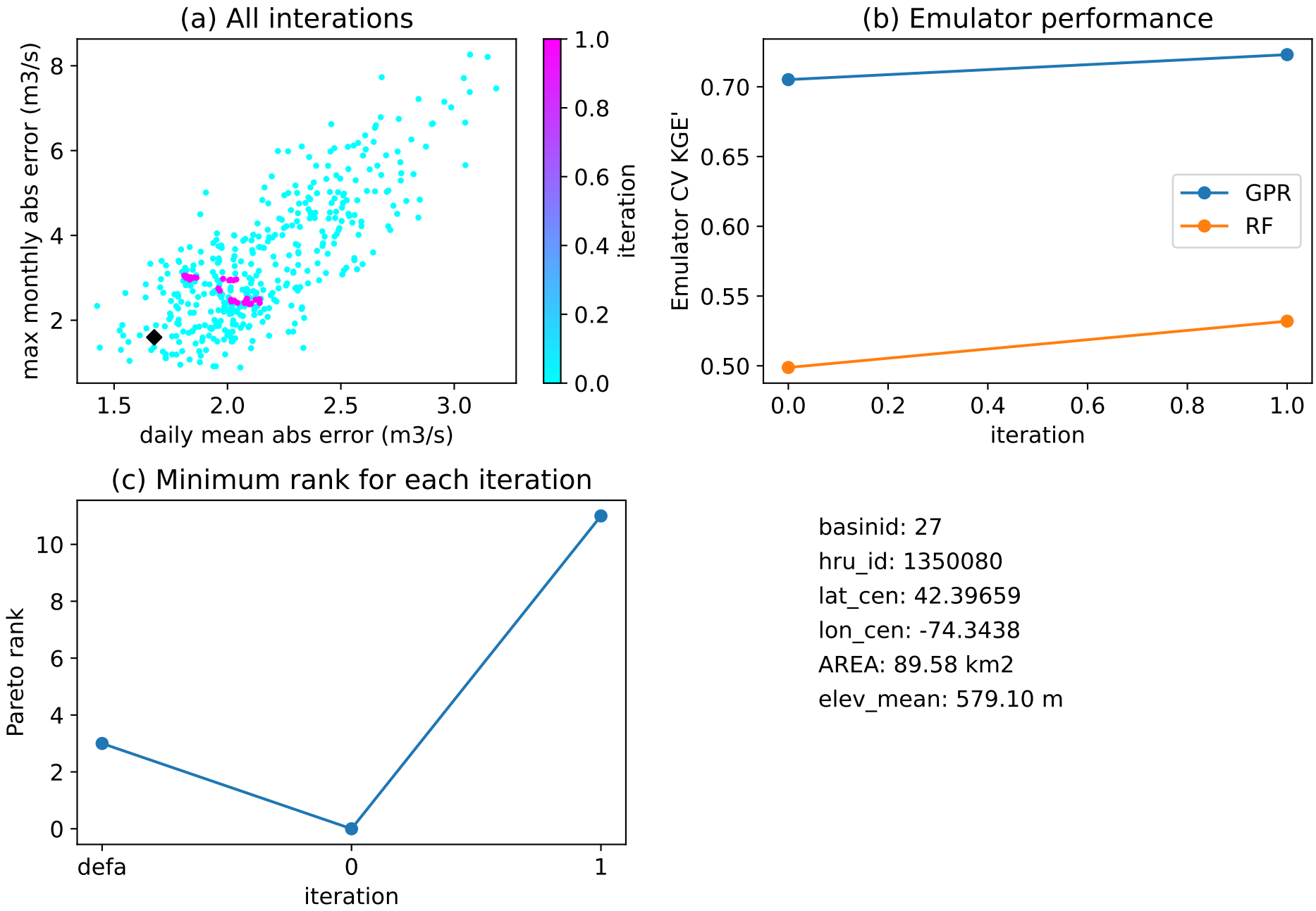
basinid: 25
hru_id: 1333000
lat_cen: 42.63857
lon_cen: -73.23597
AREA: 111.50 km2
elev_mean: 468.28 m

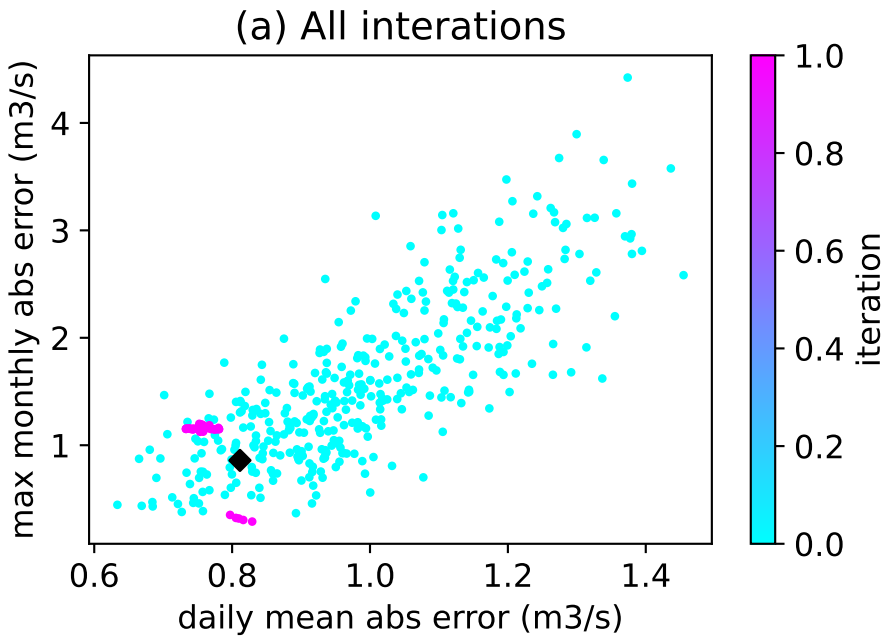


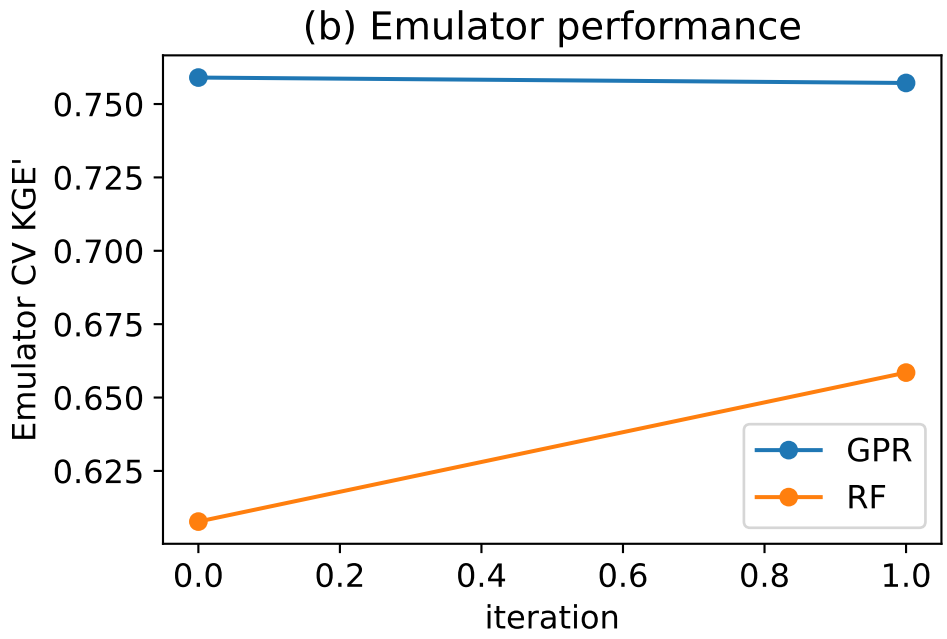


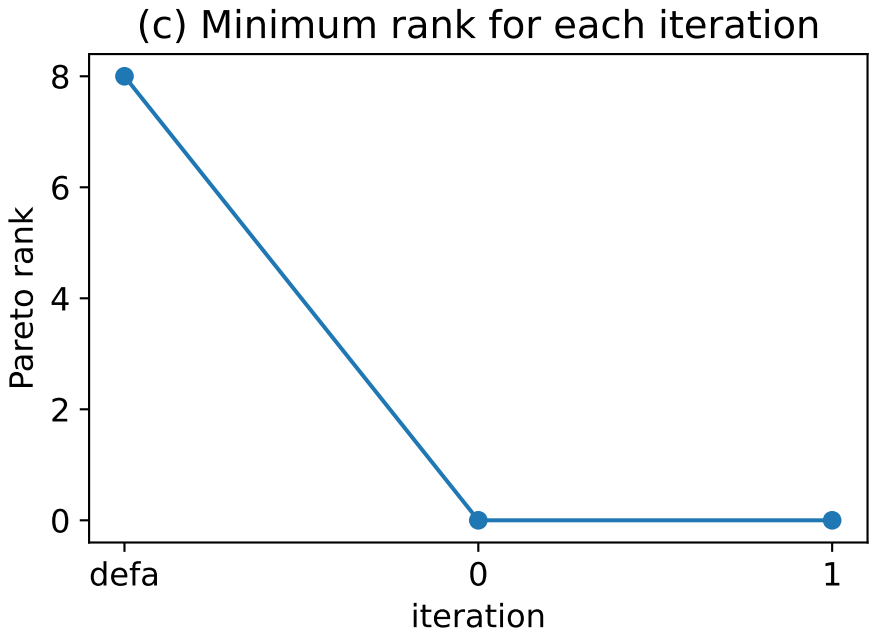


basinid: 26
hru_id: 1350000
lat_cen: 42.25692
lon_cen: -74.26812
AREA: 614.26 km2
elev_mean: 653.02 m

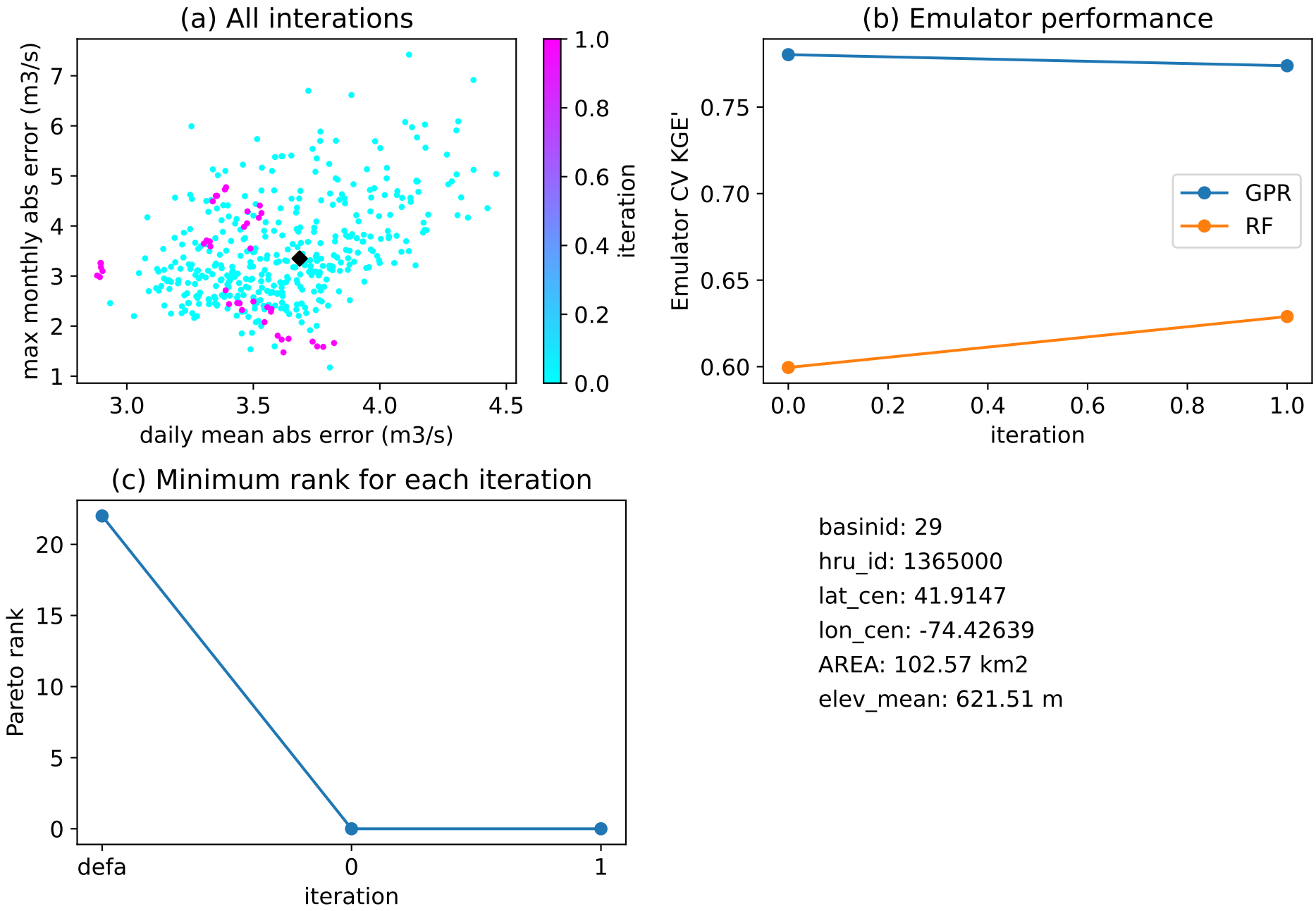

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 27
hru_id: 1350080
lat_cen: 42.39659
lon_cen: -74.3438
AREA: 89.58 km2
elev_mean: 579.10 m

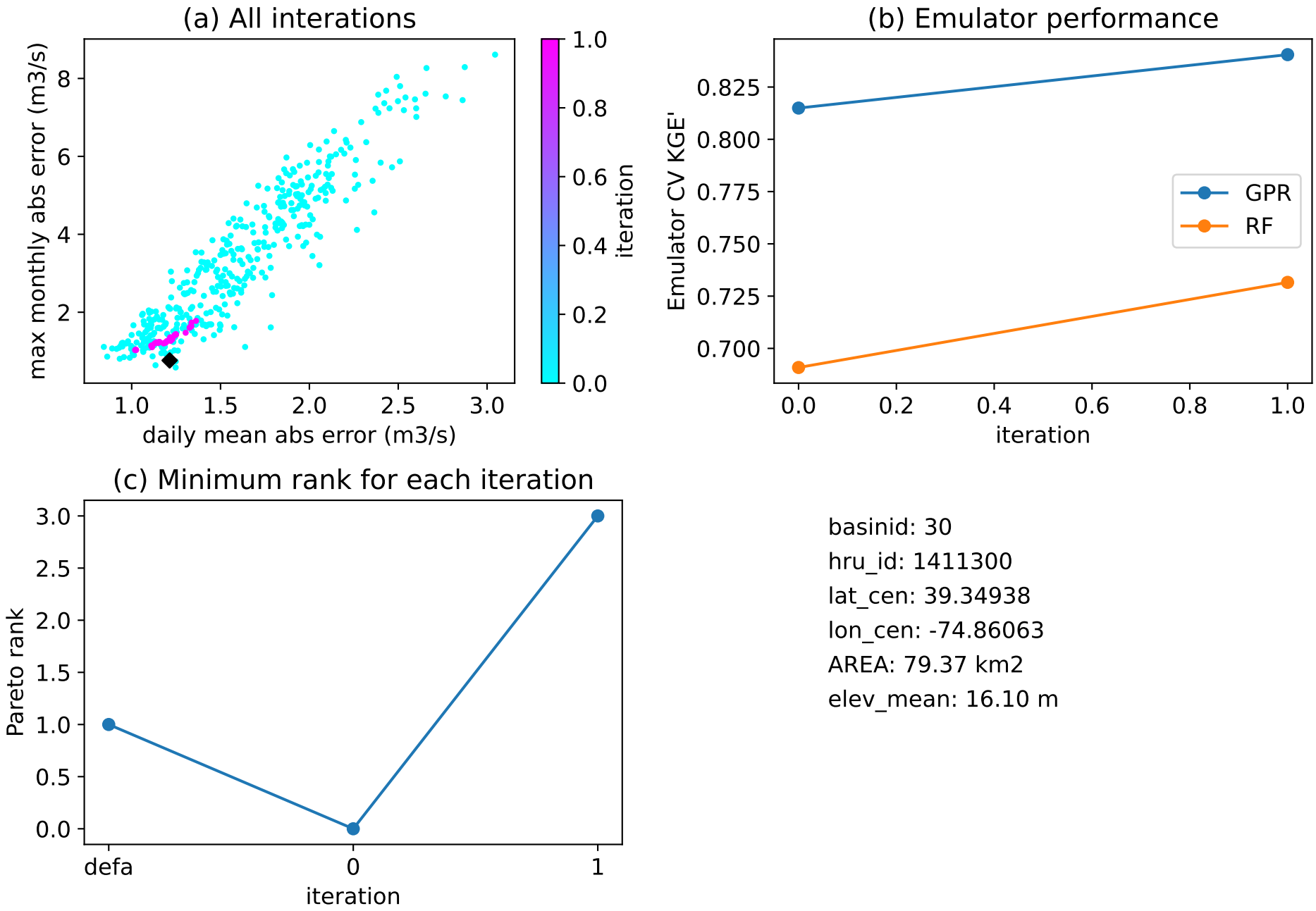


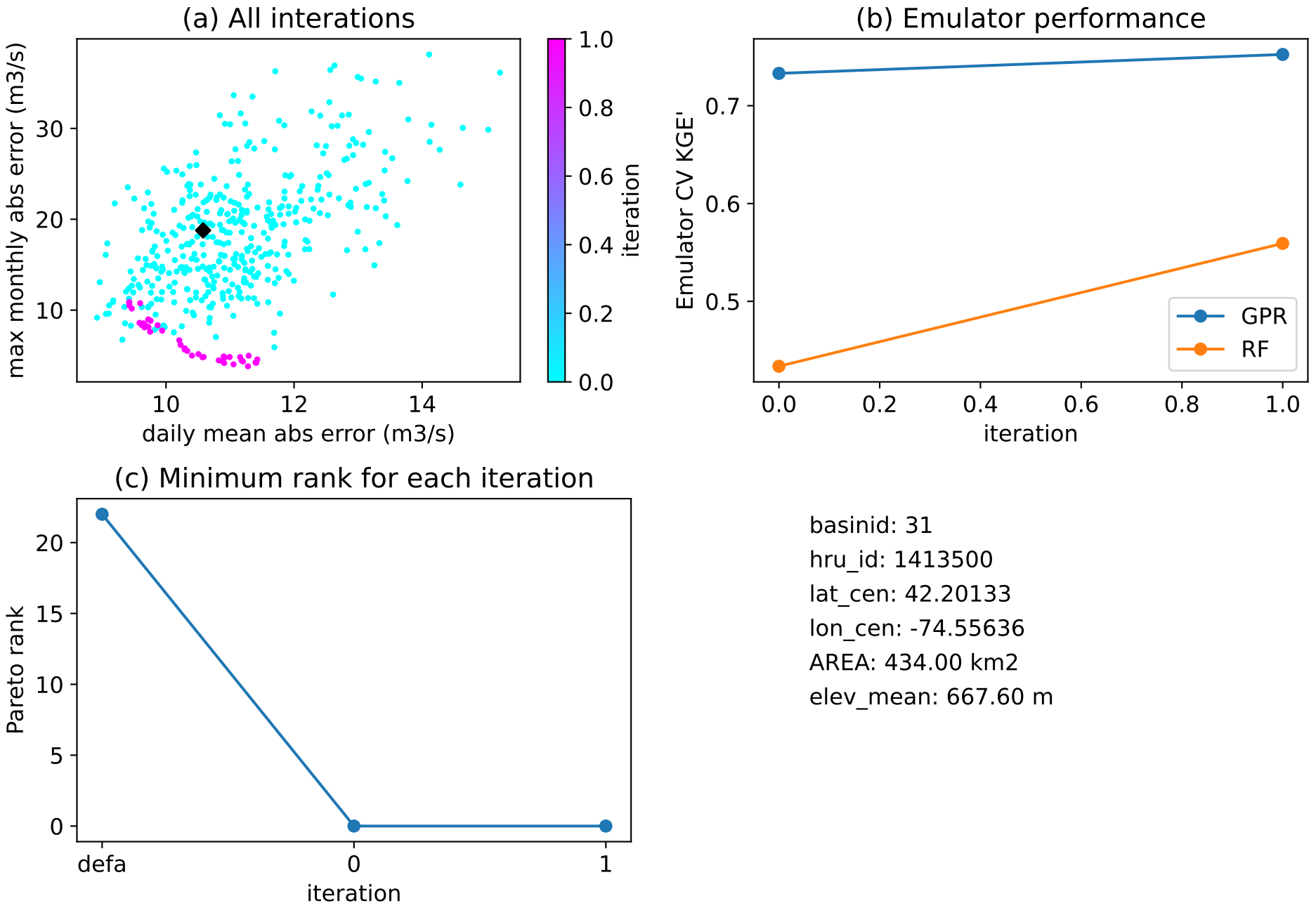


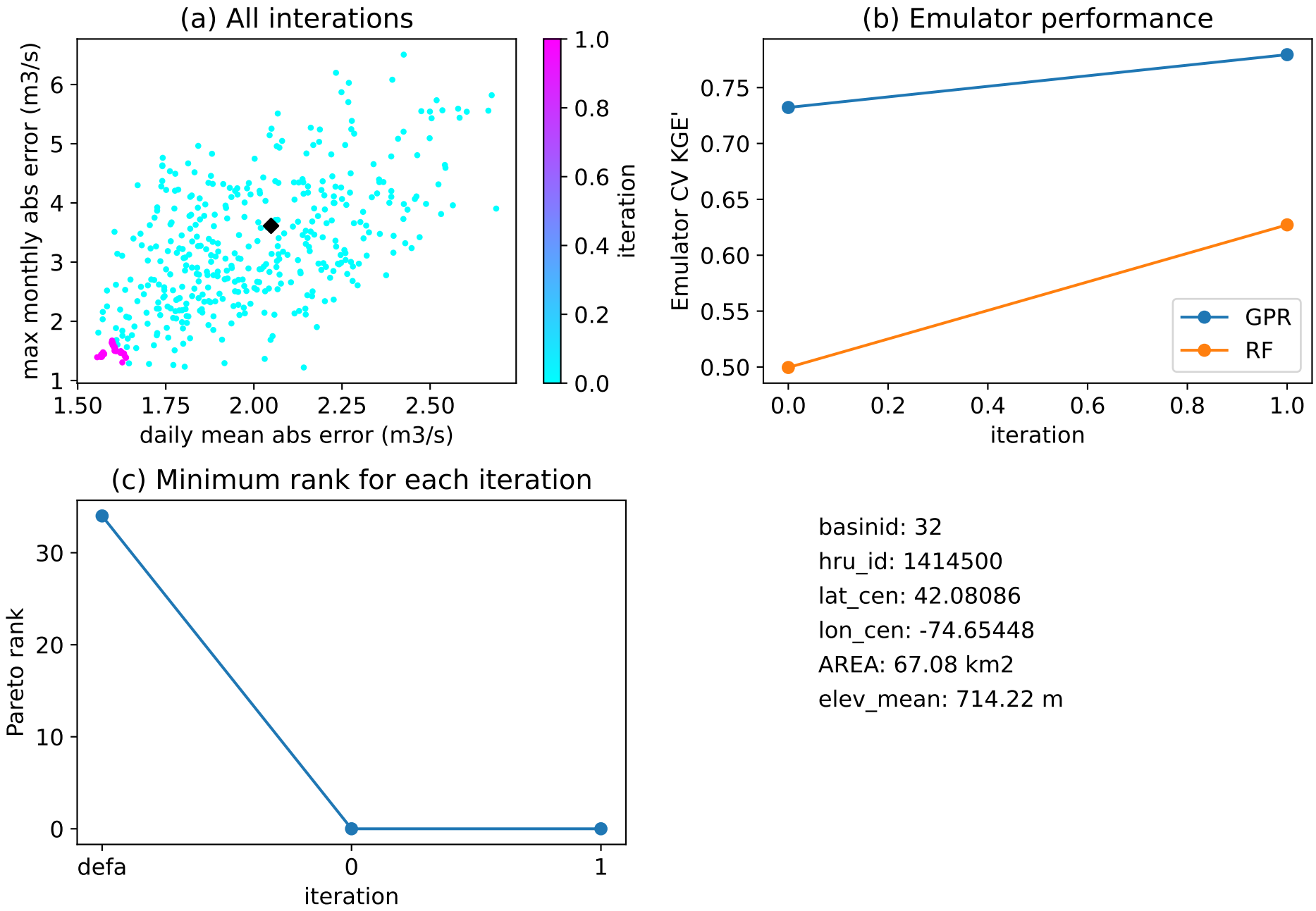


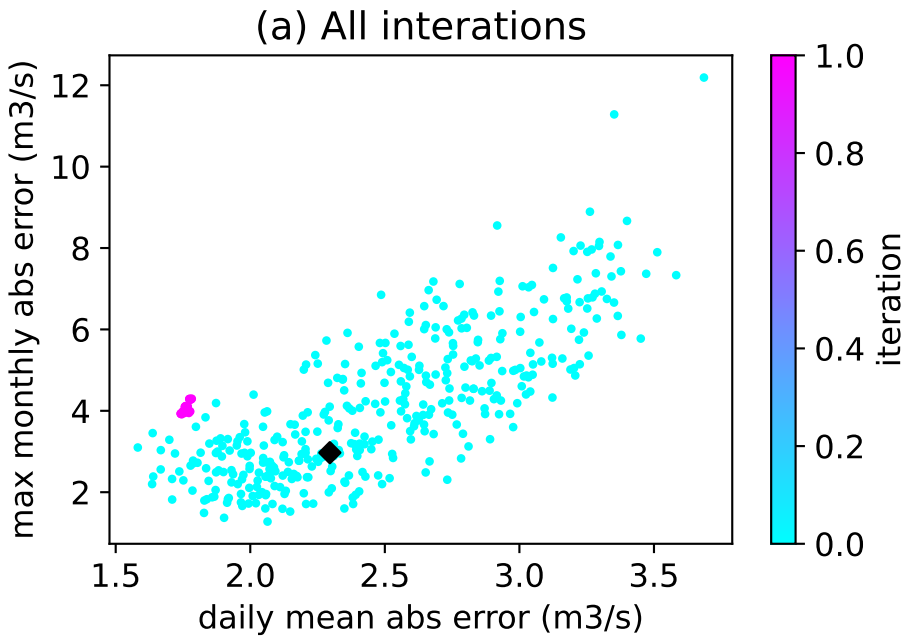
basinid: 28
hru_id: 1350140
lat_cen: 42.44596
lon_cen: -74.53833
AREA: 47.57 km2
elev_mean: 570.44 m

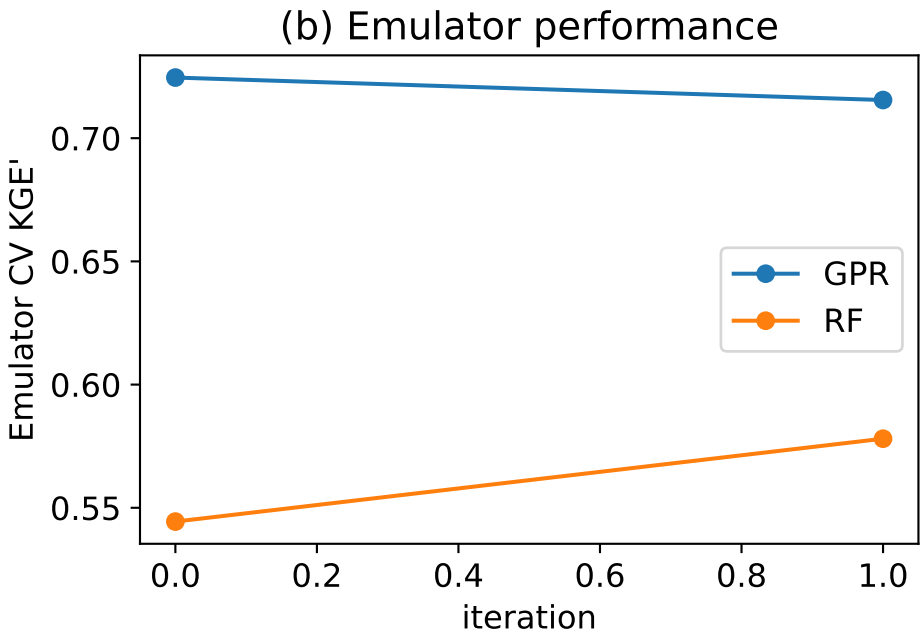

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 29
hru_id: 1365000
lat_cen: 41.9147
lon_cen: -74.42639
AREA: 102.57 km2
elev_mean: 621.51 m

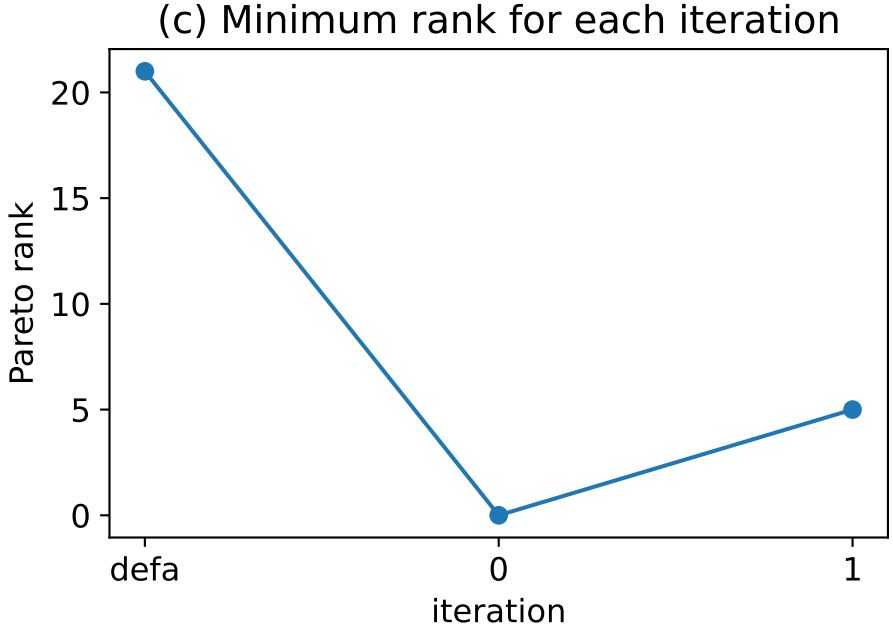

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 30
hru_id: 1411300
lat_cen: 39.34938
lon_cen: -74.86063
AREA: 79.37 km2
elev_mean: 16.10 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 31
hru_id: 1413500
lat_cen: 42.20133
lon_cen: -74.55636
AREA: 434.00 km2
elev_mean: 667.60 m

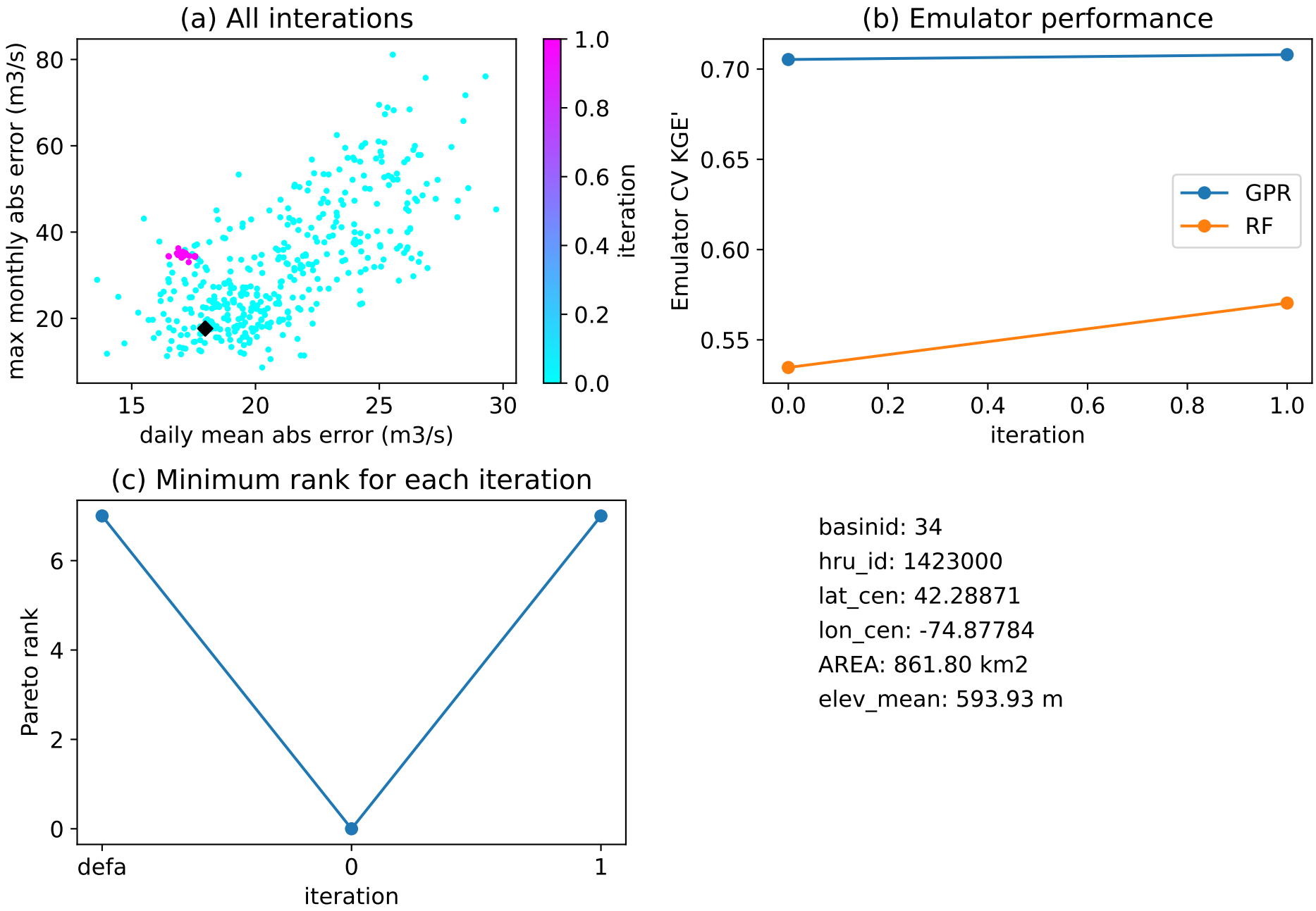

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 32
hru_id: 1414500
lat_cen: 42.08086
lon_cen: -74.65448
AREA: 67.08 km2
elev_mean: 714.22 m

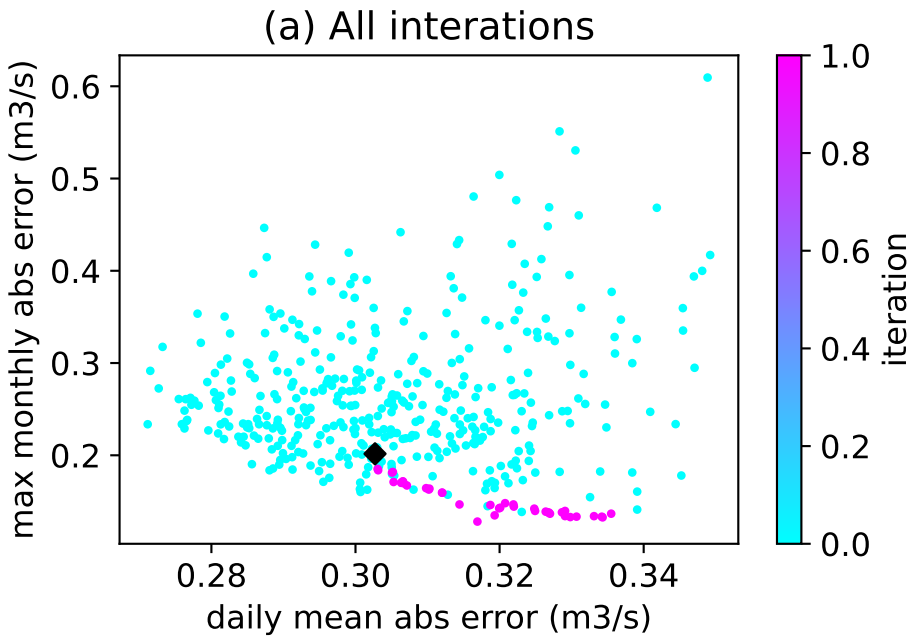


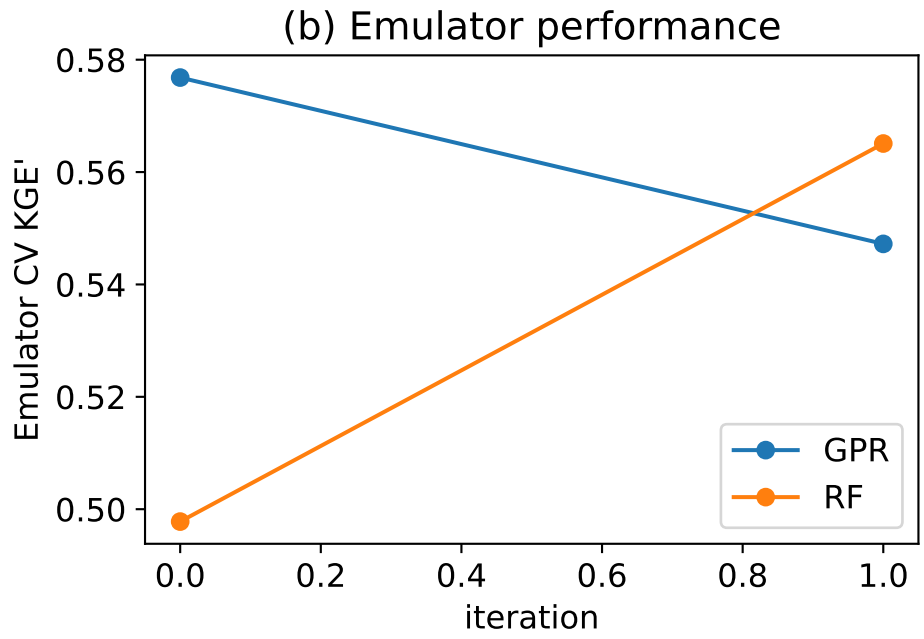


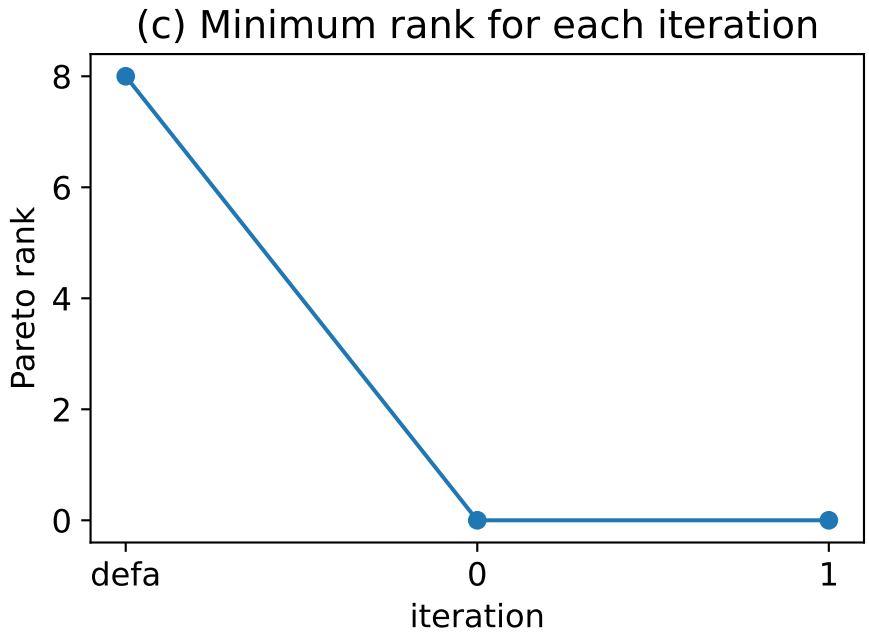


basinid: 33
hru_id: 1415000
lat_cen: 42.18552
lon_cen: -74.80096
AREA: 86.68 km2
elev_mean: 609.23 m

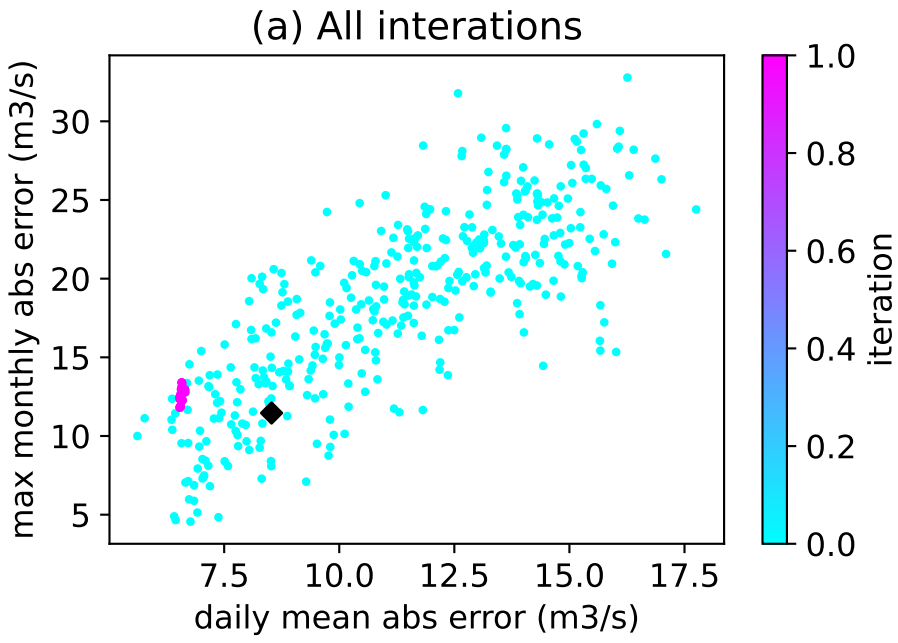

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 34
hru_id: 1423000
lat_cen: 42.28871
lon_cen: -74.87784
AREA: 861.80 km2
elev_mean: 593.93 m

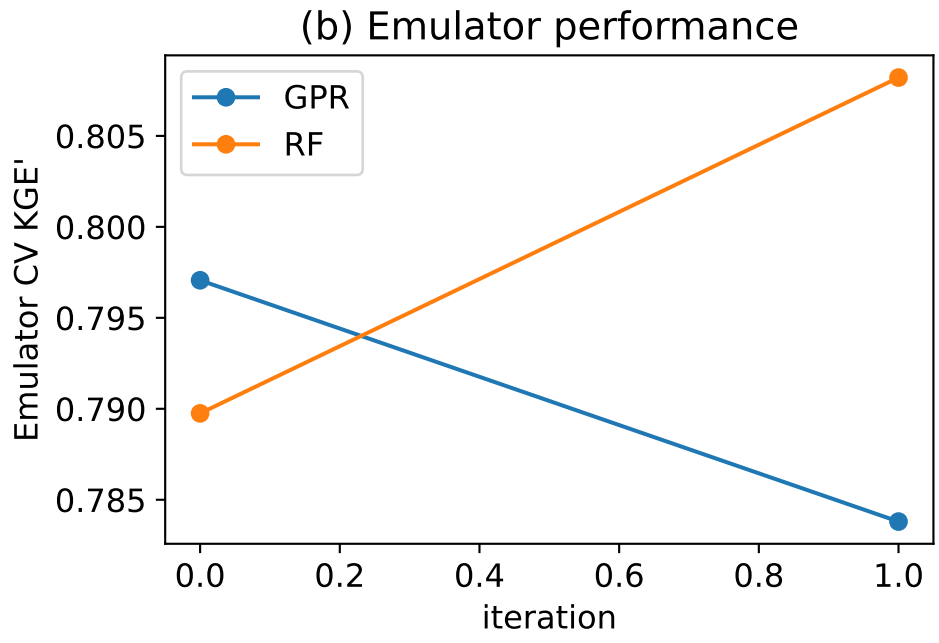


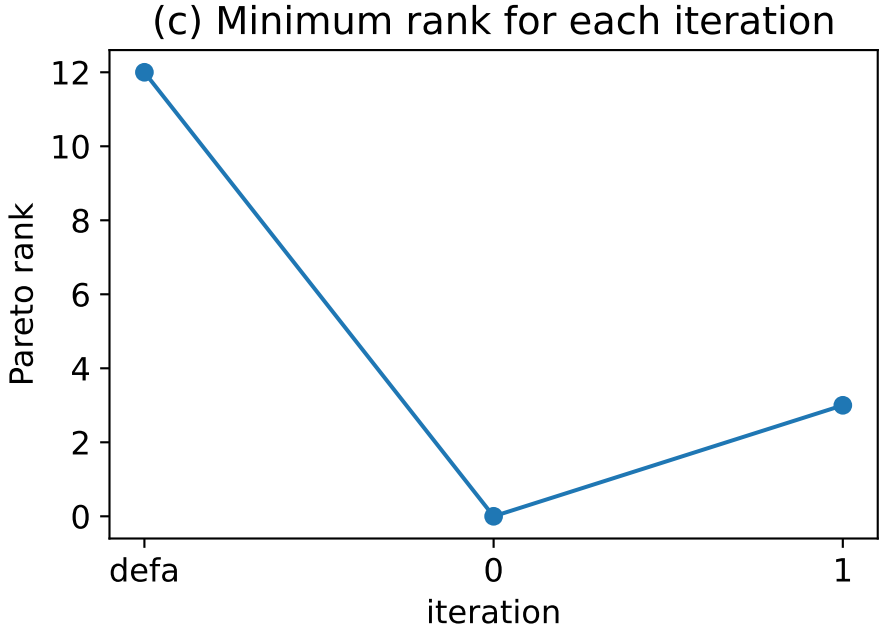




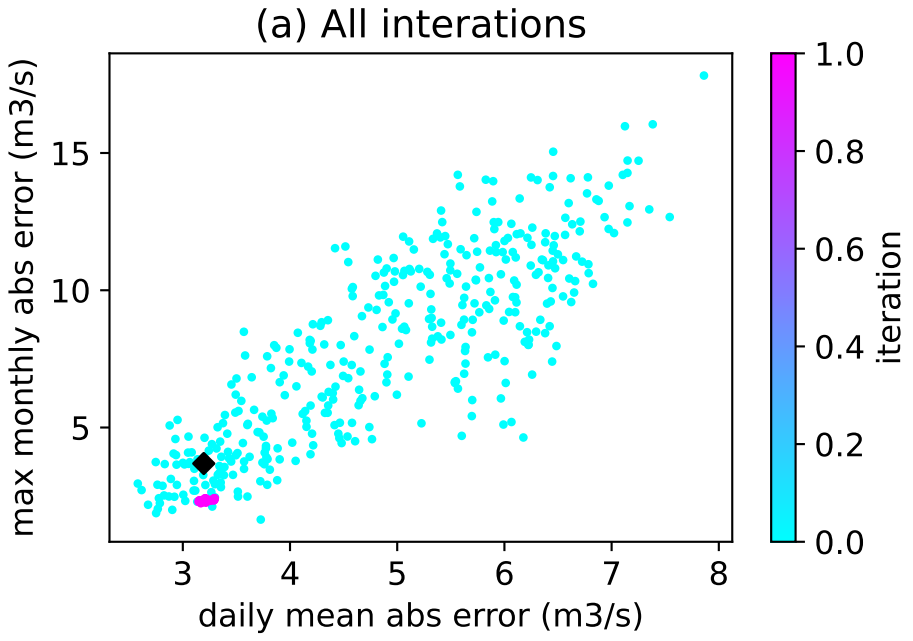
basinid: 35
hru_id: 1434025
lat_cen: 42.01478
lon_cen: -74.48483
AREA: 9.90 km2
elev_mean: 893.44 m

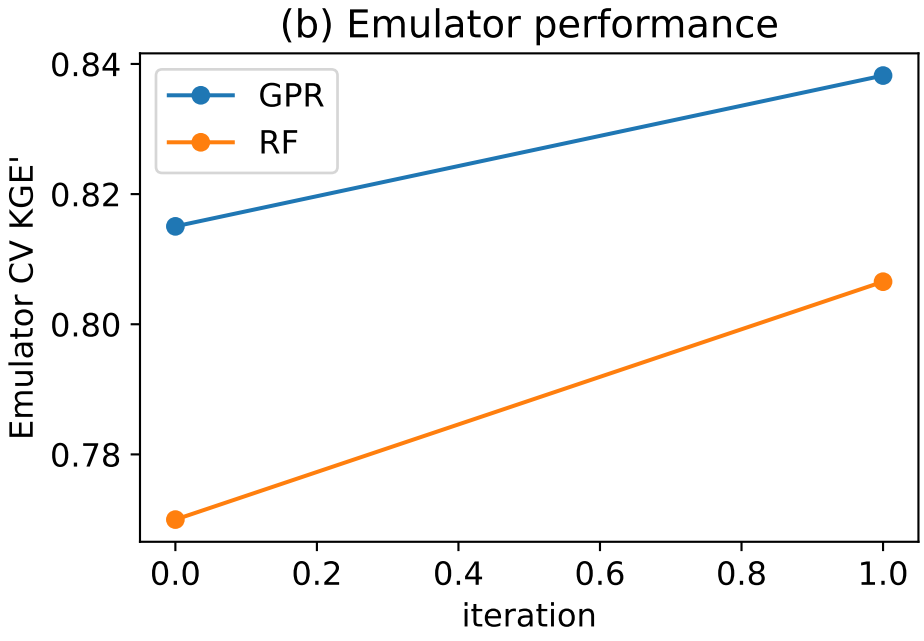


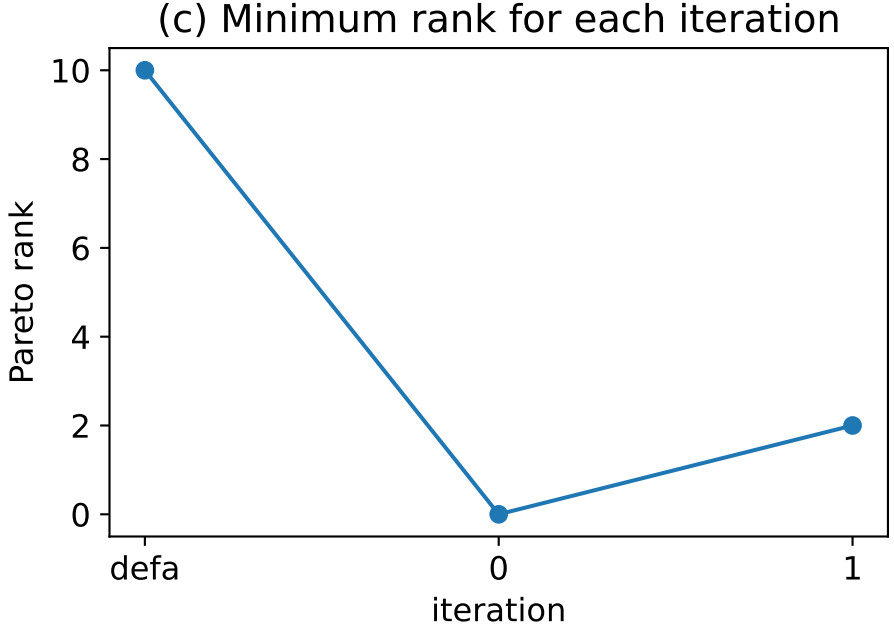




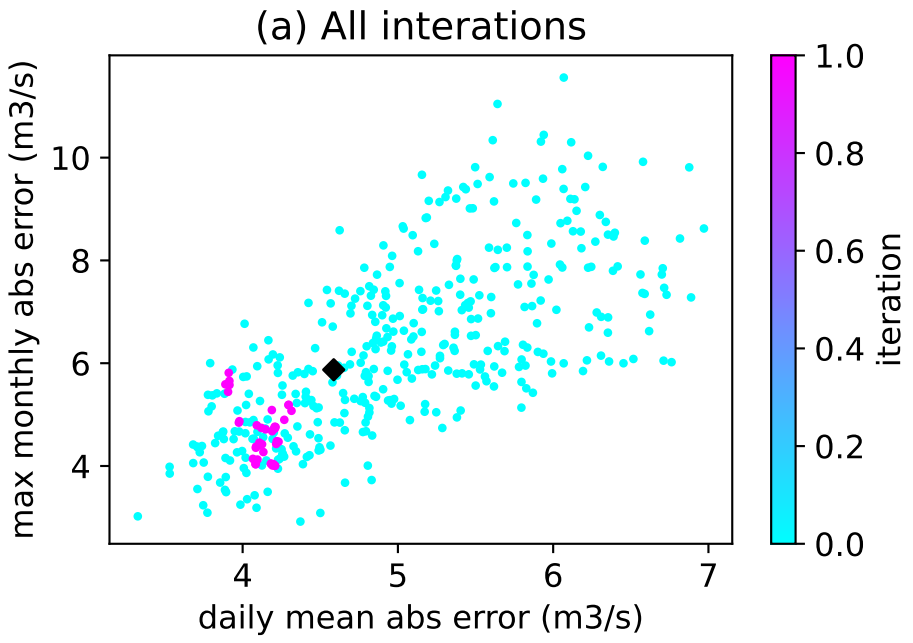
basinid: 36
hru_id: 1439500
lat_cen: 41.20994
lon_cen: -75.0974
AREA: 306.09 km2
elev_mean: 385.62 m

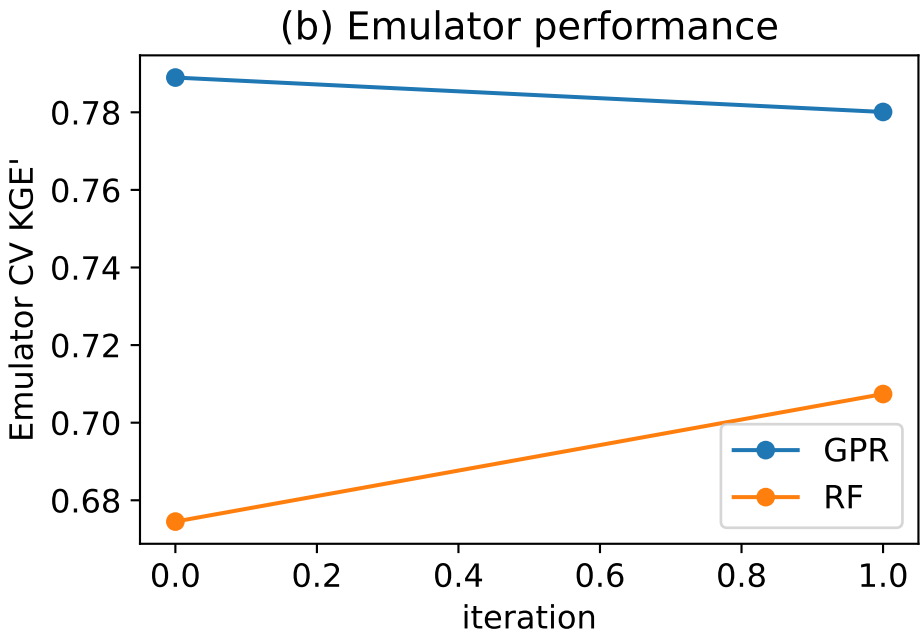


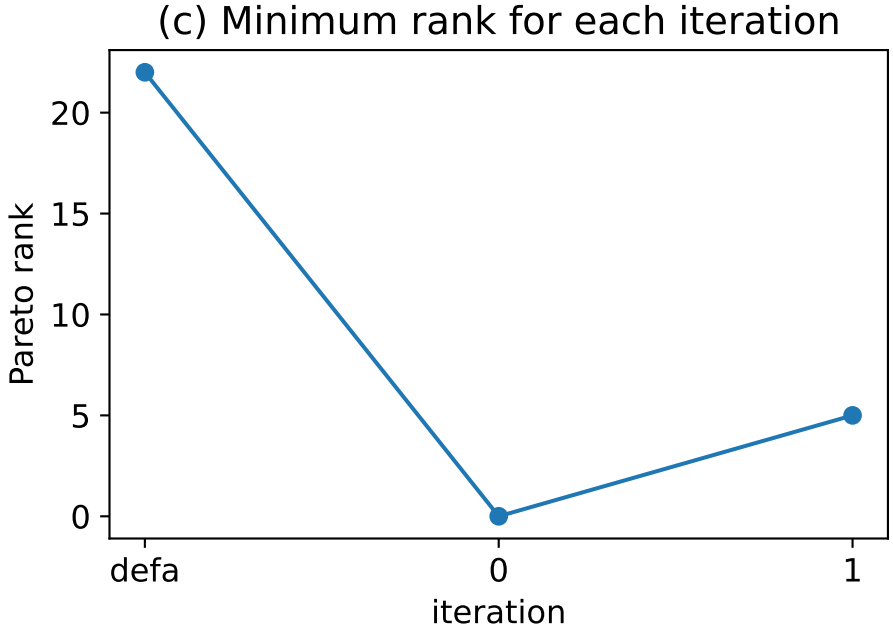




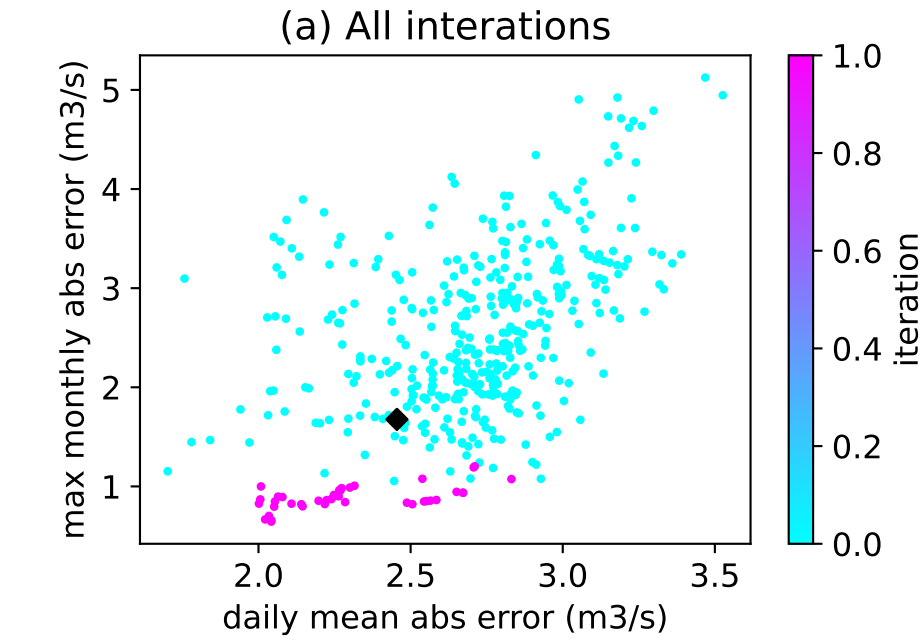
basinid: 37
hru_id: 1440000
lat_cen: 41.21119
lon_cen: -74.79817
AREA: 171.57 km2
elev_mean: 263.30 m

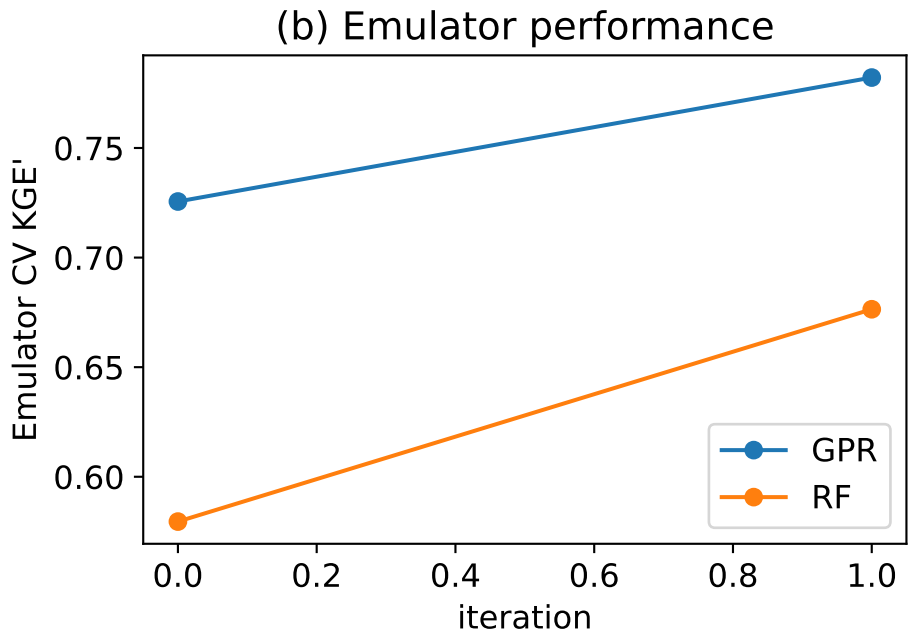


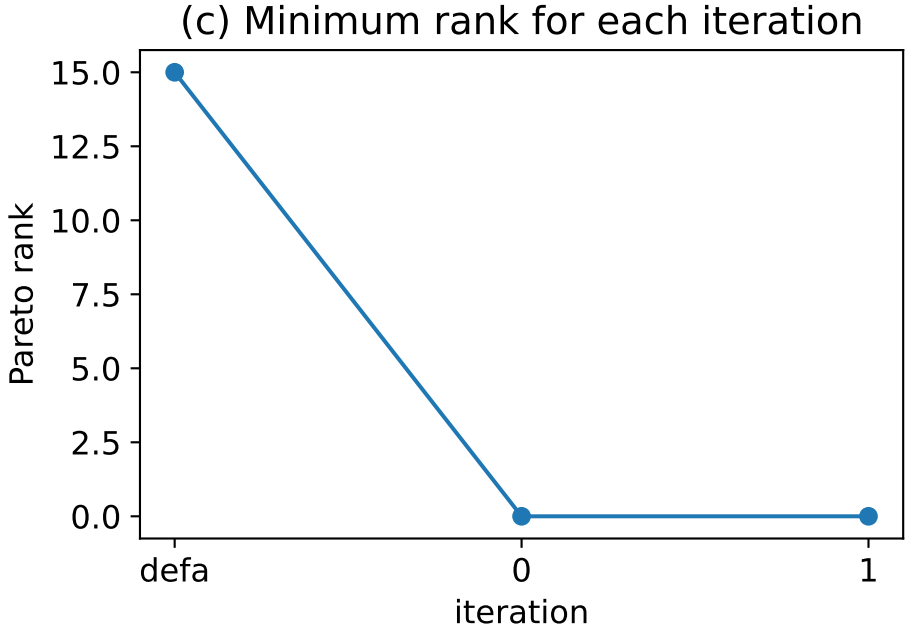




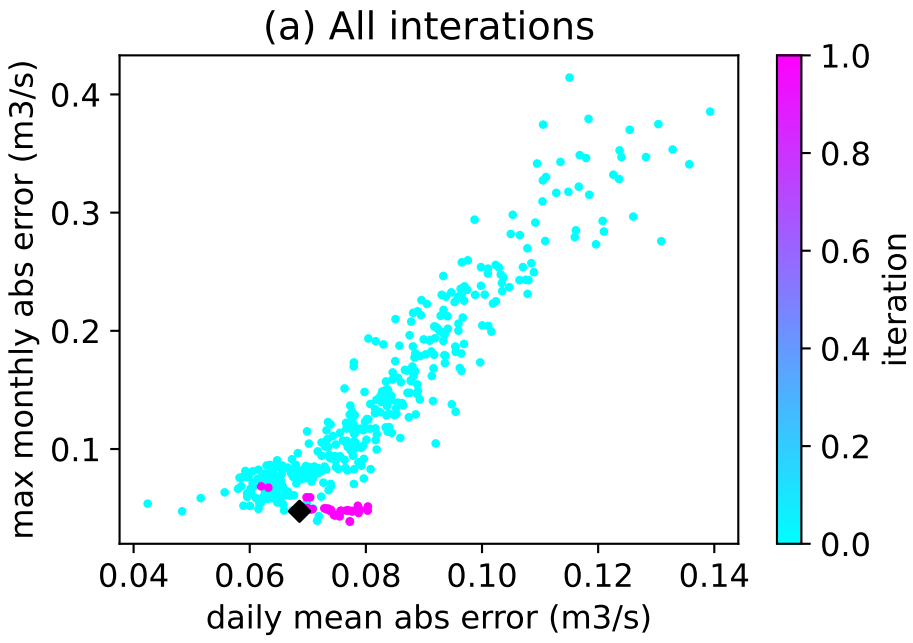
basinid: 38
hru_id: 1440400
lat_cen: 41.18775
lon_cen: -75.24309
AREA: 178.98 km2
elev_mean: 423.12 m

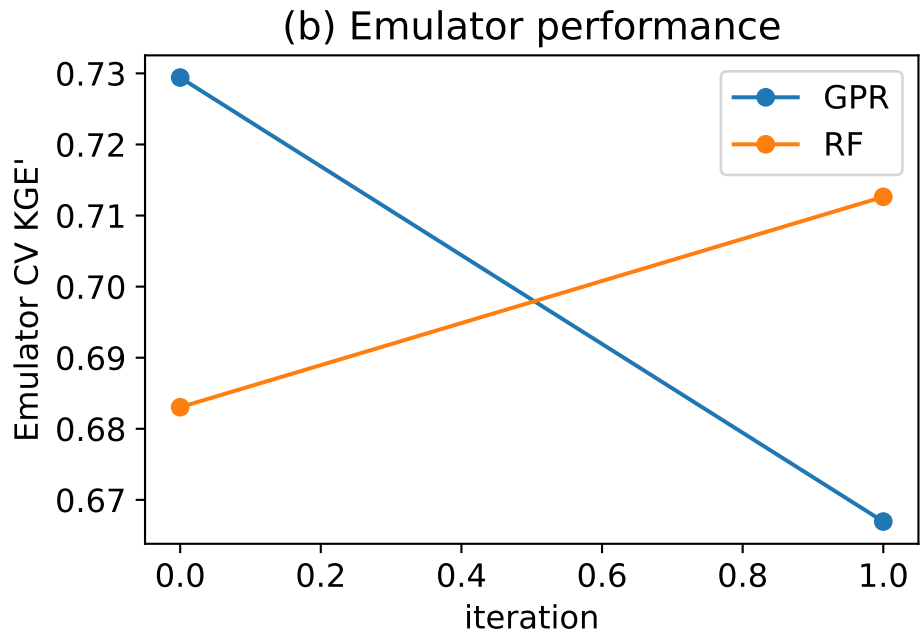


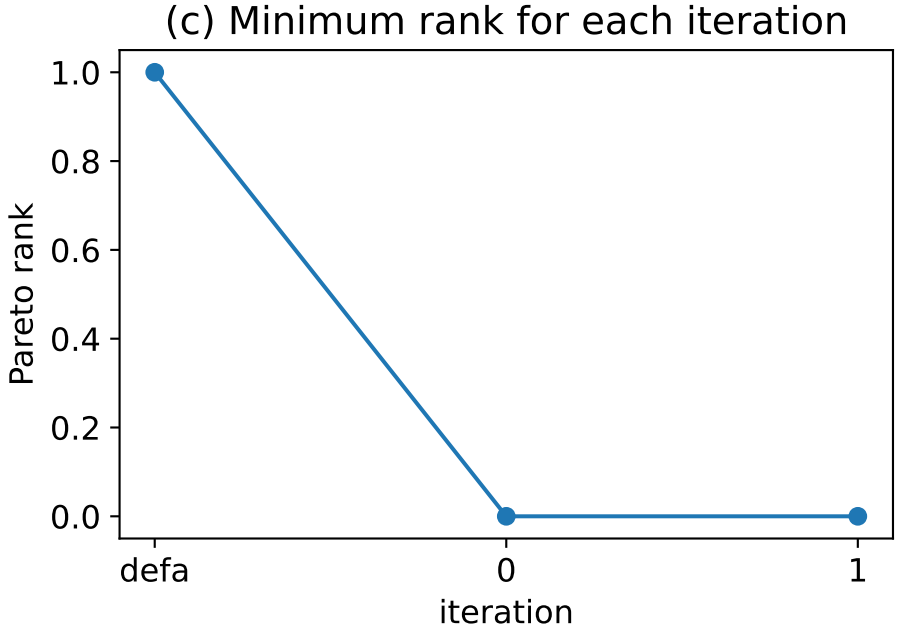




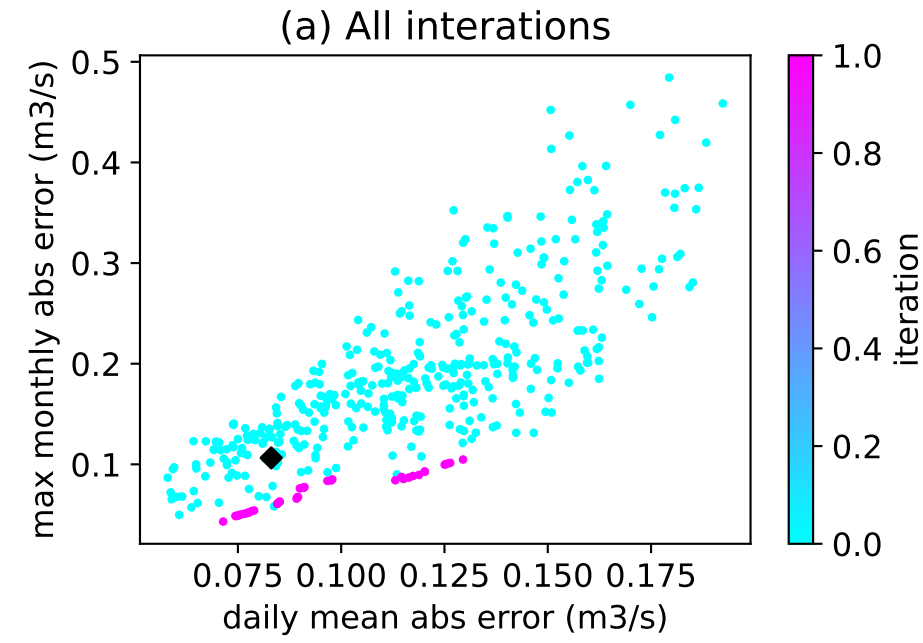
basinid: 39
hru_id: 1451800
lat_cen: 40.6604
lon_cen: -75.68416
AREA: 149.11 km2
elev_mean: 205.36 m

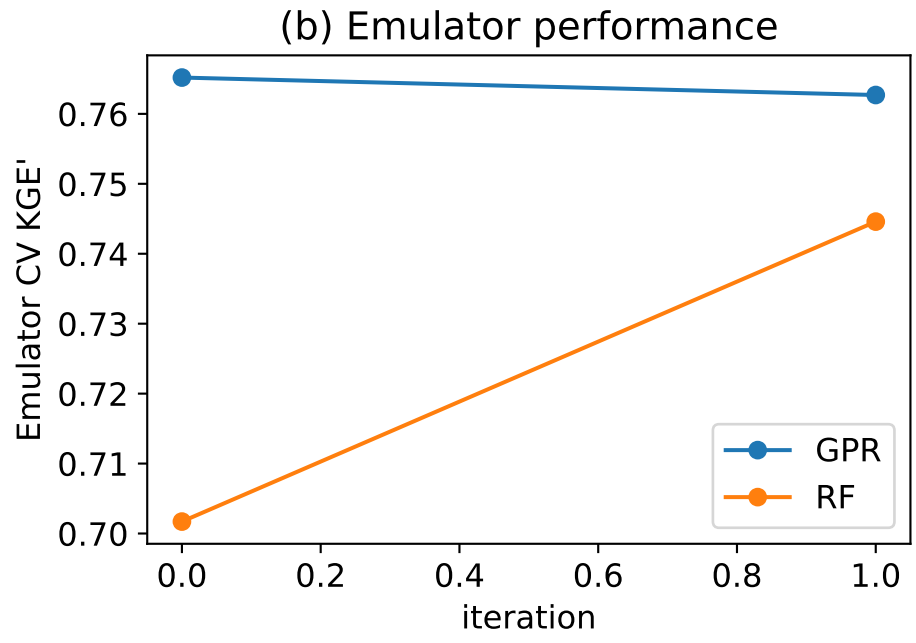


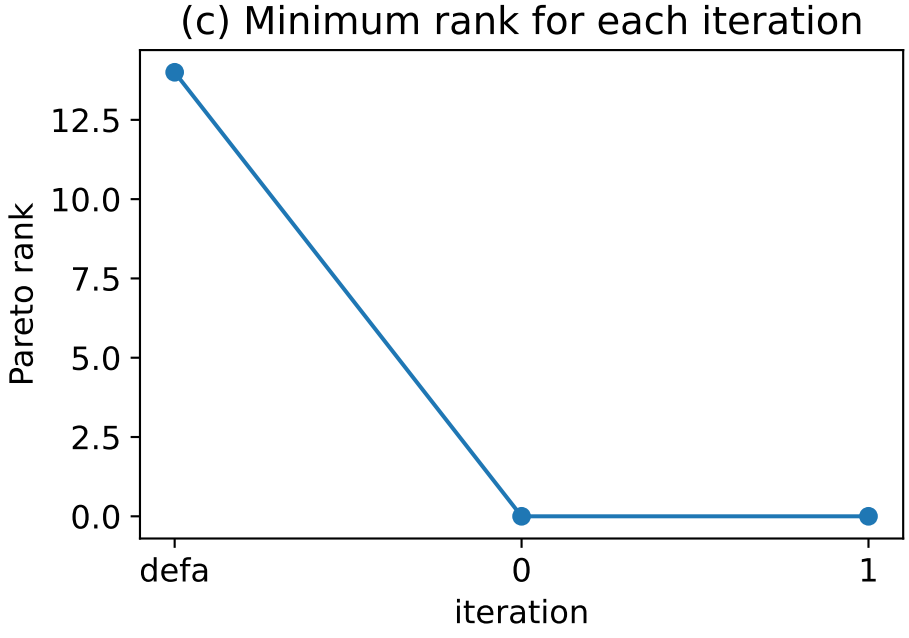




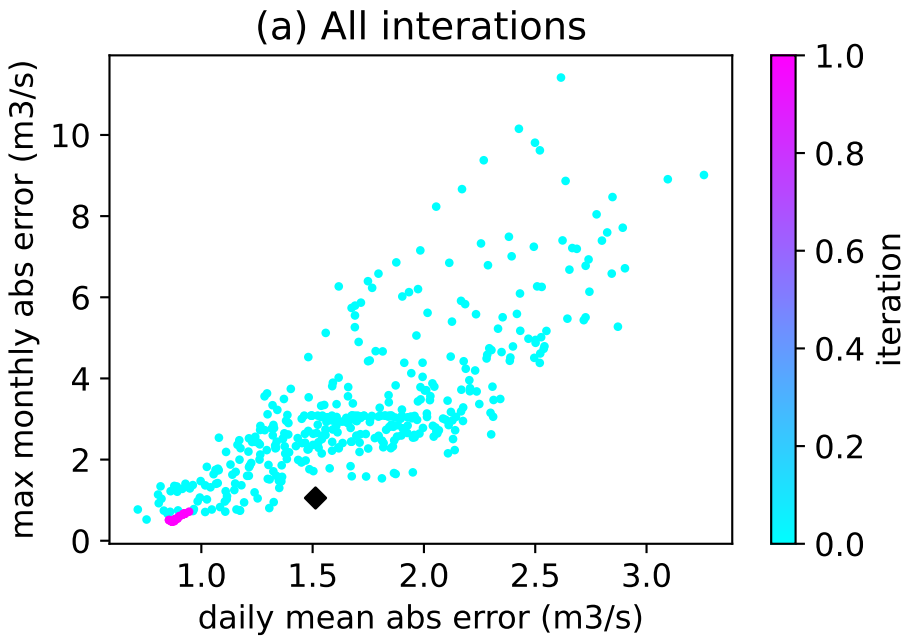
basinid: 40
hru_id: 1466500
lat_cen: 39.87334
lon_cen: -74.49062
AREA: 6.25 km2
elev_mean: 45.00 m

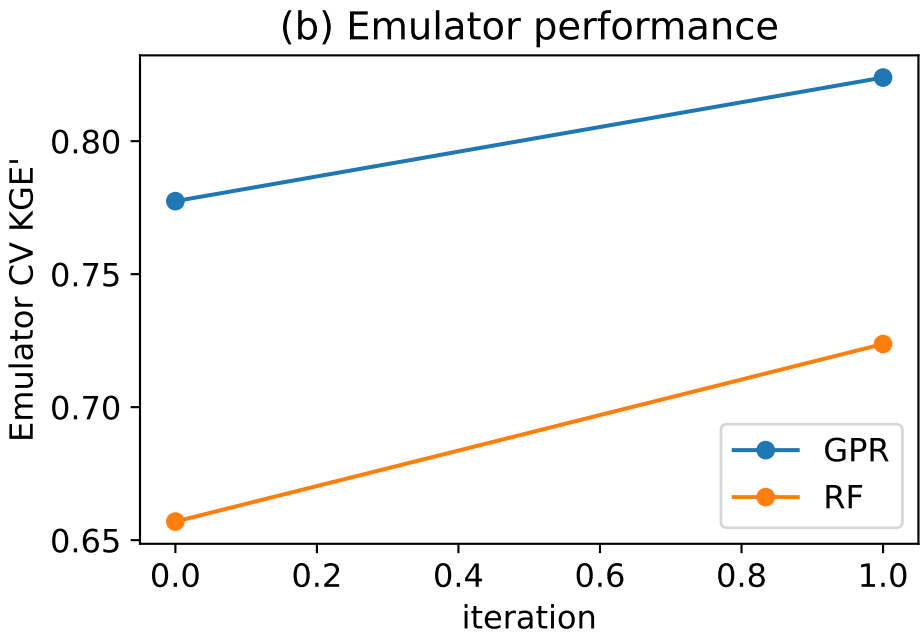


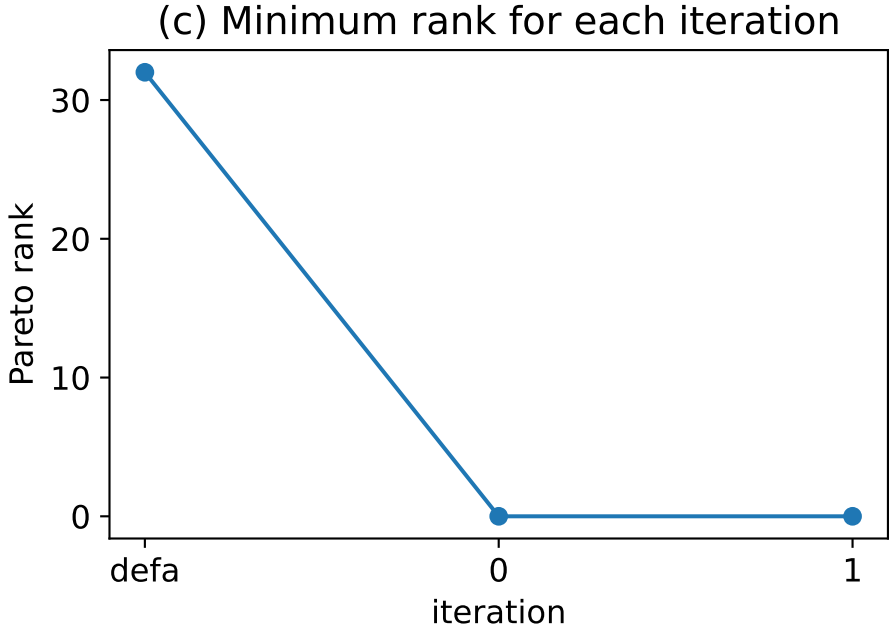




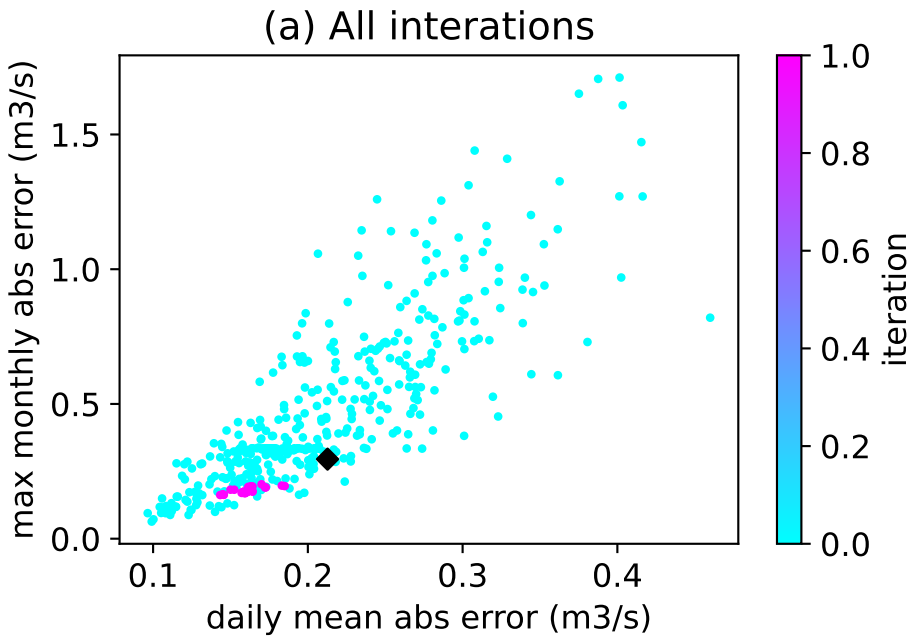
basinid: 41
hru_id: 1484100
lat_cen: 38.89235
lon_cen: -75.52798
AREA: 9.66 km2
elev_mean: 16.00 m

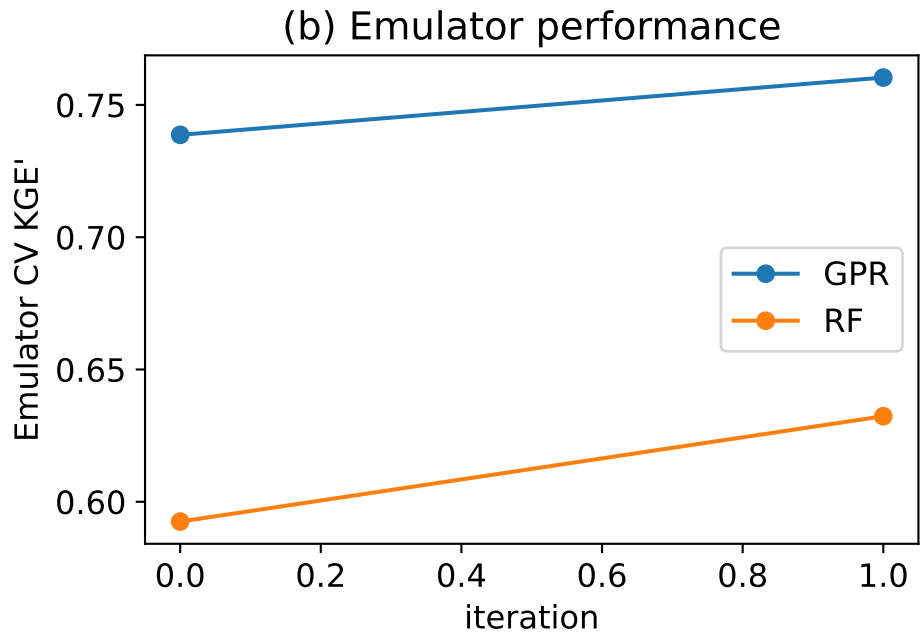


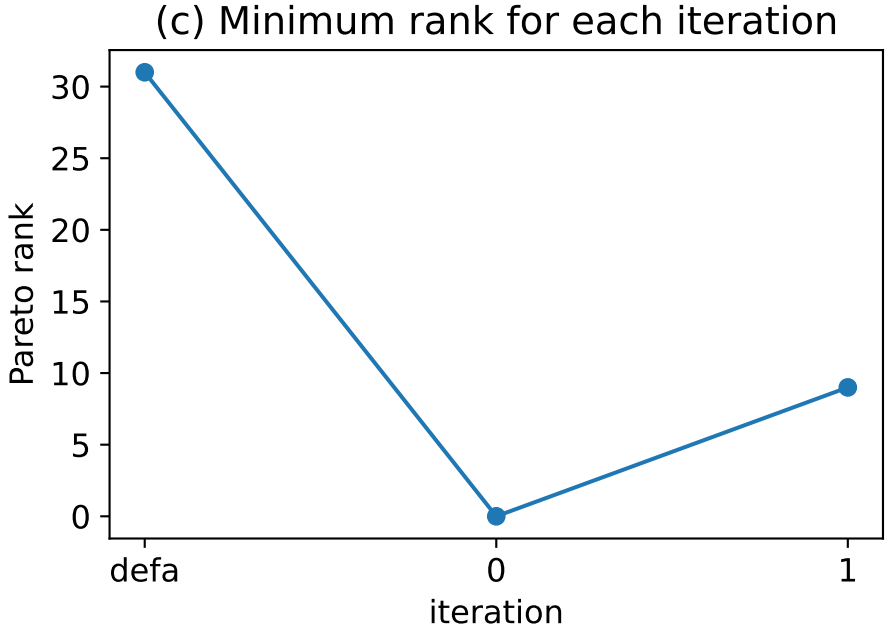




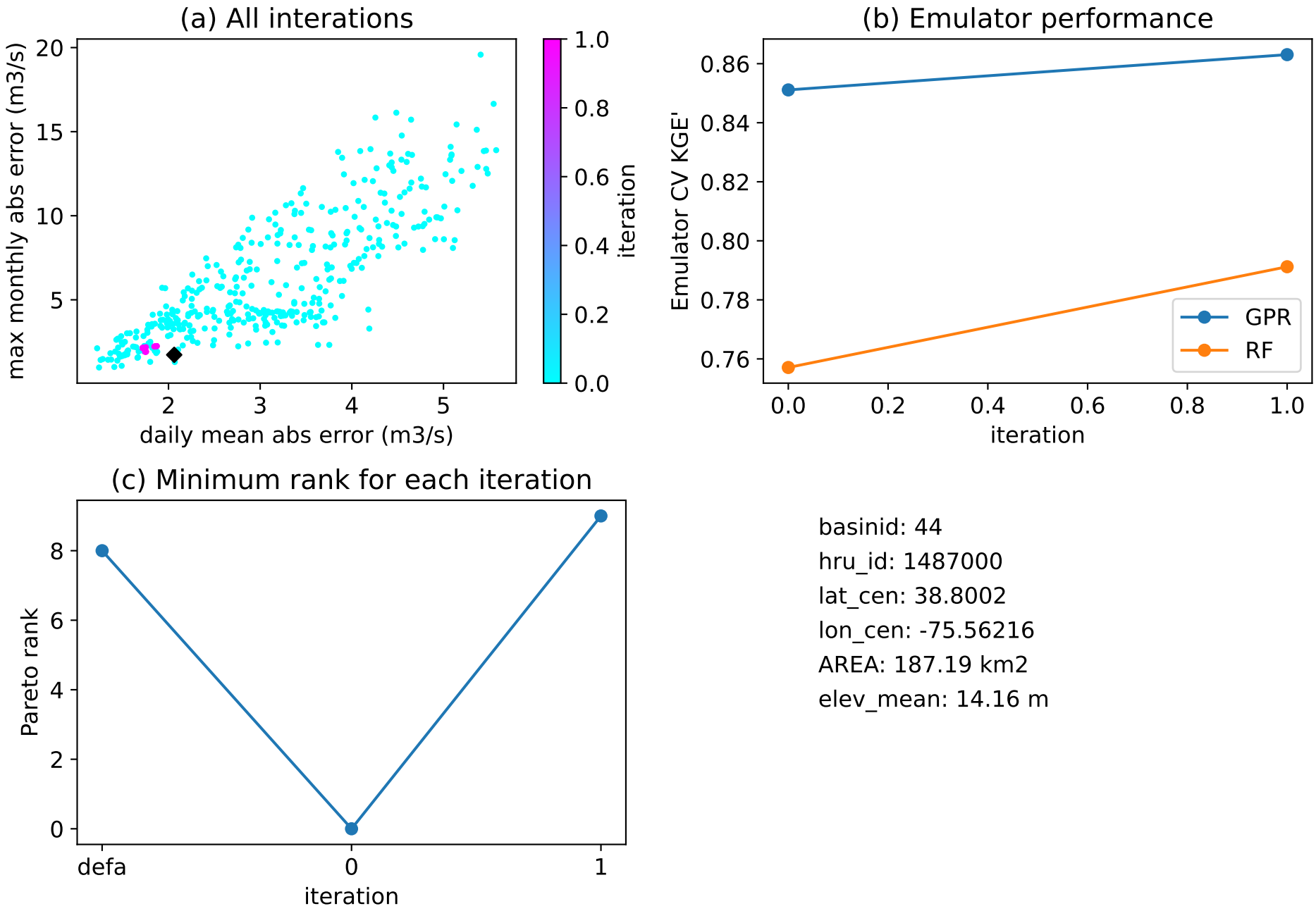
basinid: 42
hru_id: 1485500
lat_cen: 38.29482
lon_cen: -75.46888
AREA: 112.98 km2
elev_mean: 12.87 m

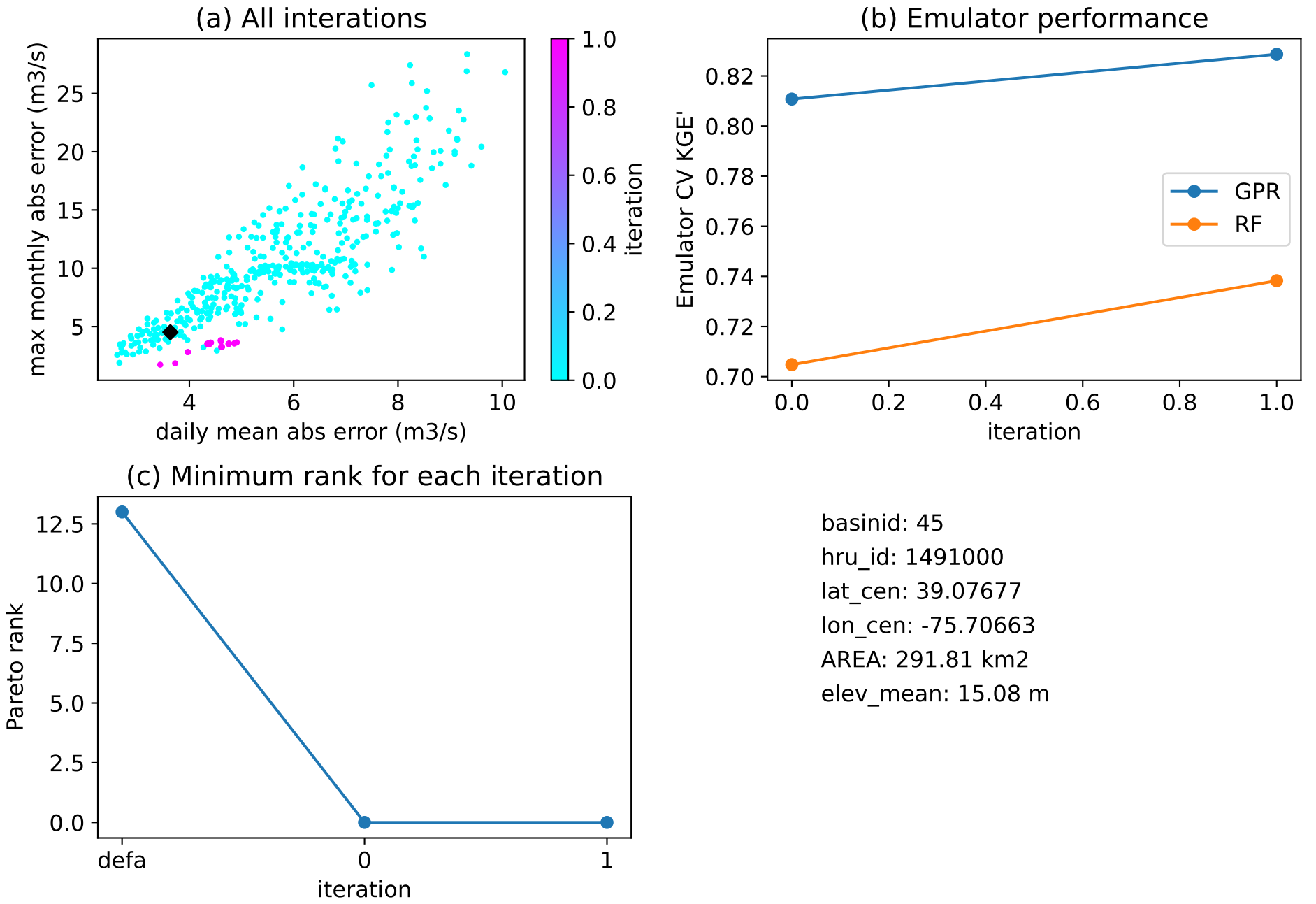


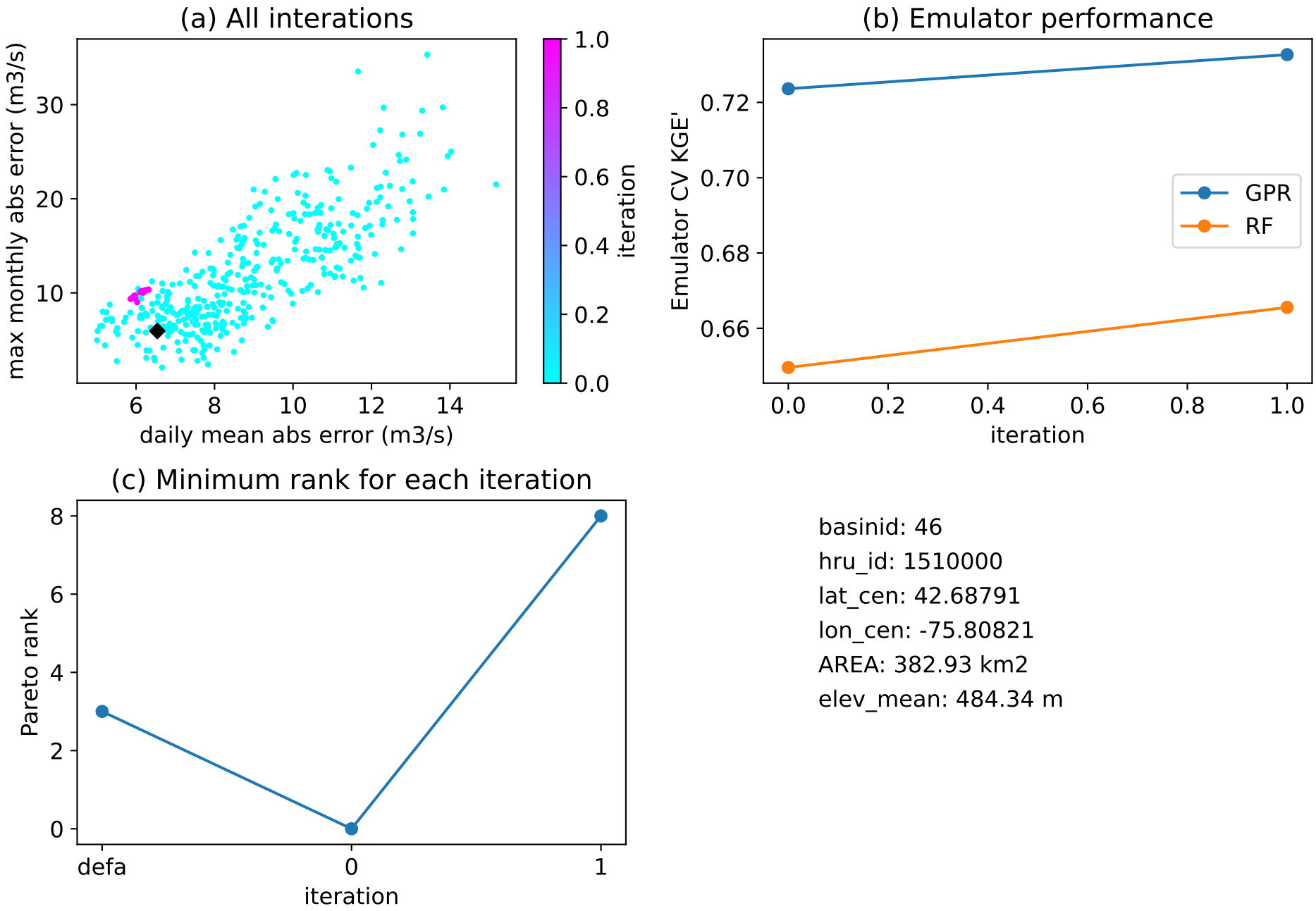


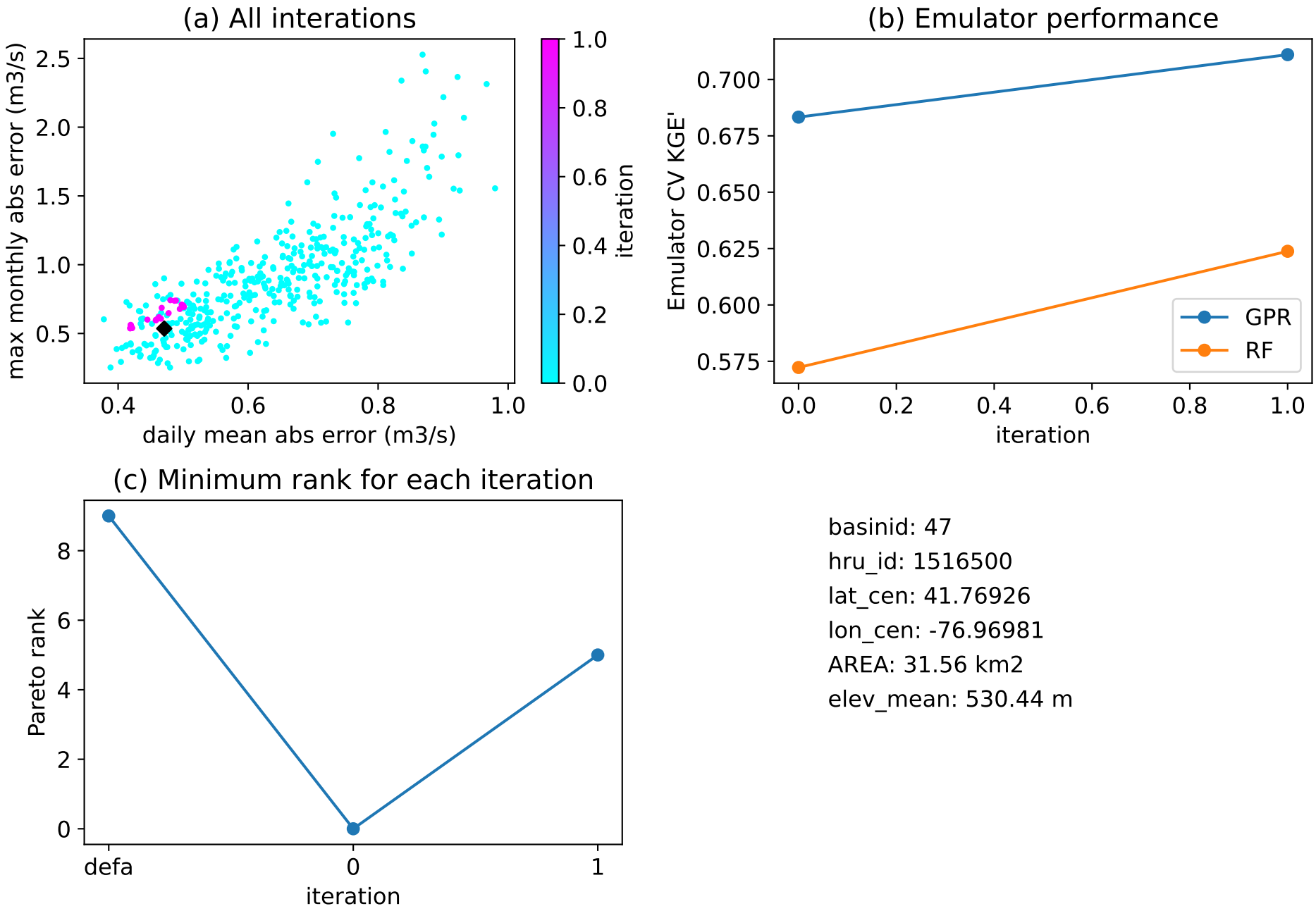


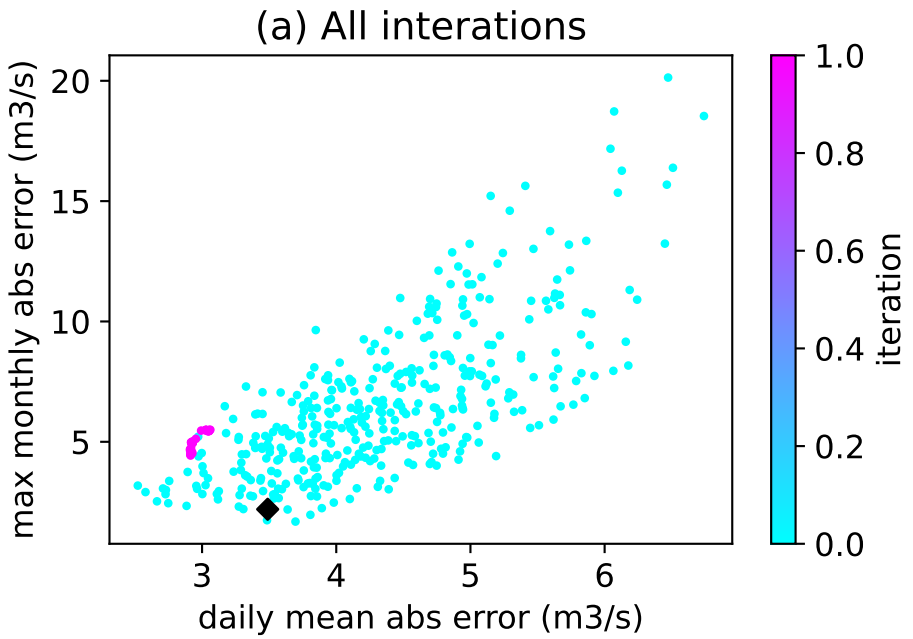
basinid: 43
hru_id: 1486000
lat_cen: 38.21674
lon_cen: -75.65106
AREA: 15.99 km2
elev_mean: 6.60 m

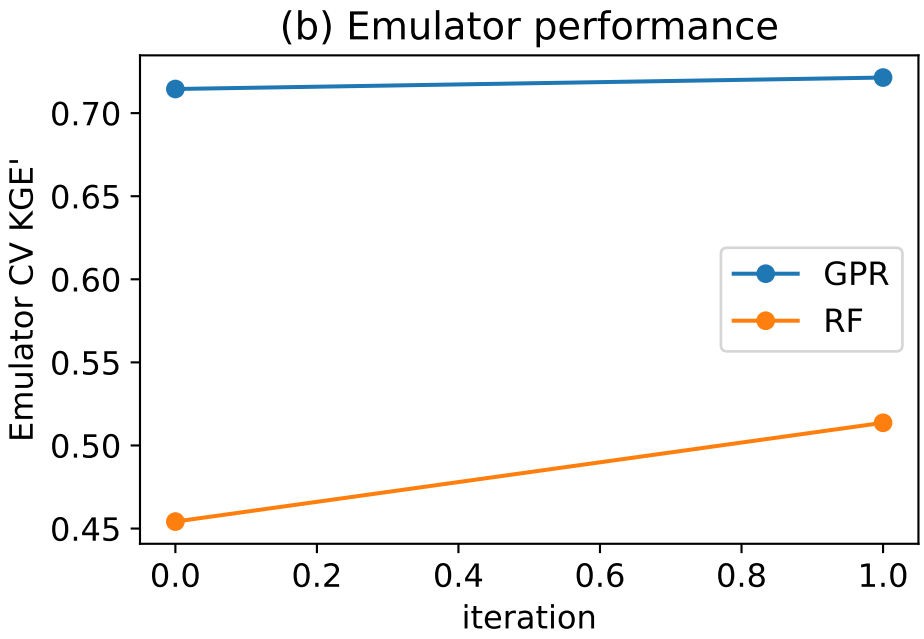

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 44
hru_id: 1487000
lat_cen: 38.8002
lon_cen: -75.56216
AREA: 187.19 km2
elev_mean: 14.16 m

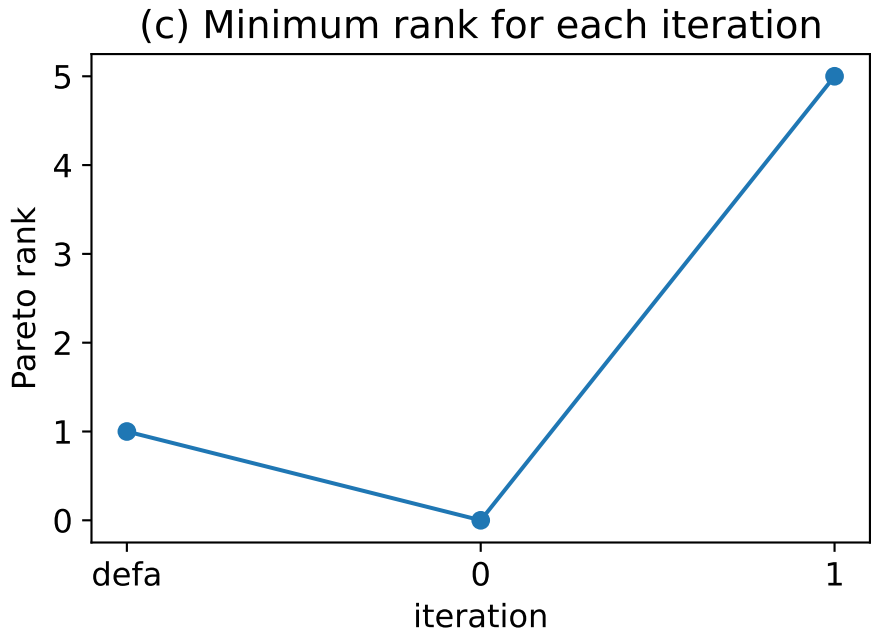

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 45
hru_id: 1491000
lat_cen: 39.07677
lon_cen: -75.70663
AREA: 291.81 km2
elev_mean: 15.08 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 46
hru_id: 1510000
lat_cen: 42.68791
lon_cen: -75.80821
AREA: 382.93 km2
elev_mean: 484.34 m

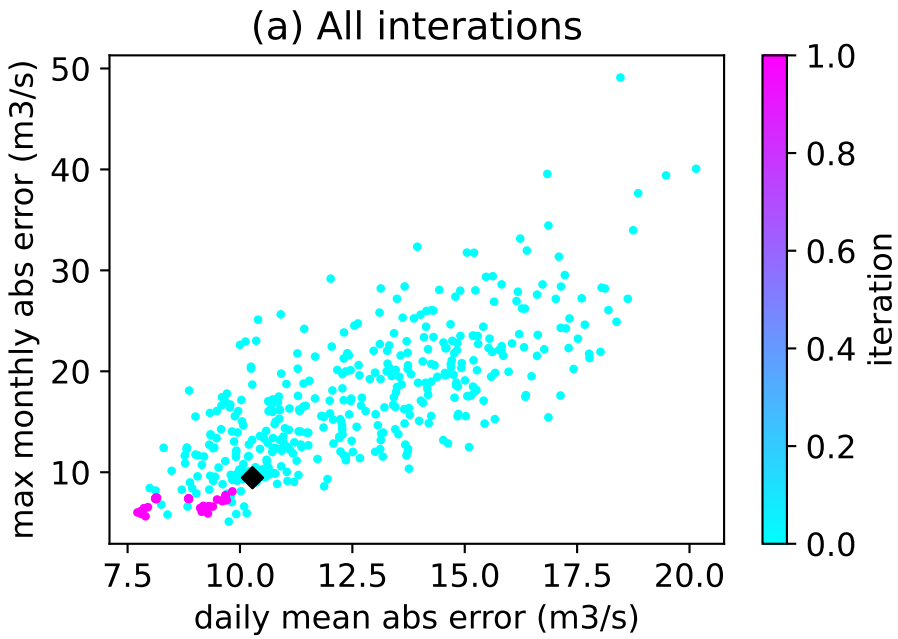

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 47
hru_id: 1516500
lat_cen: 41.76926
lon_cen: -76.96981
AREA: 31.56 km2
elev_mean: 530.44 m

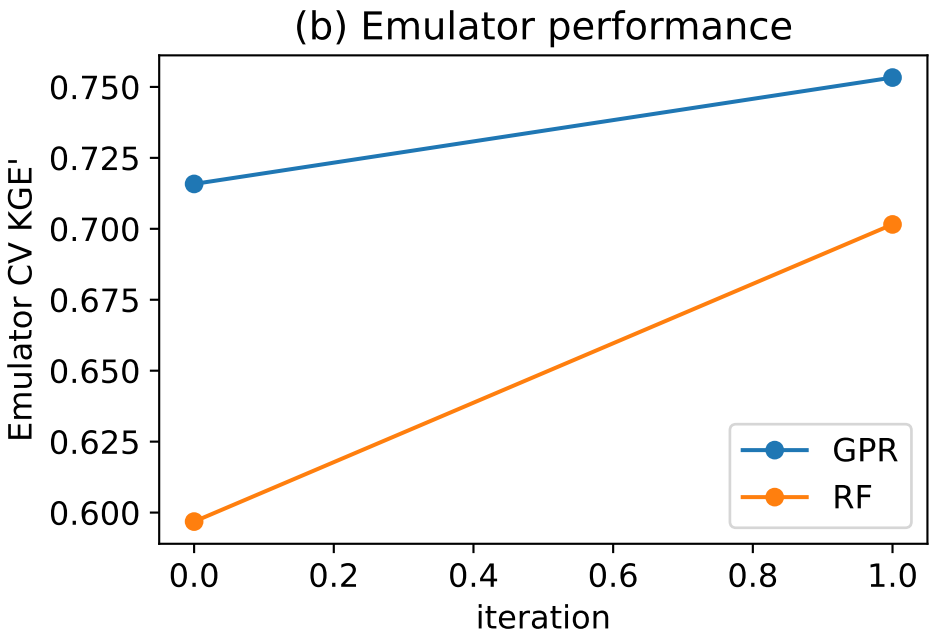


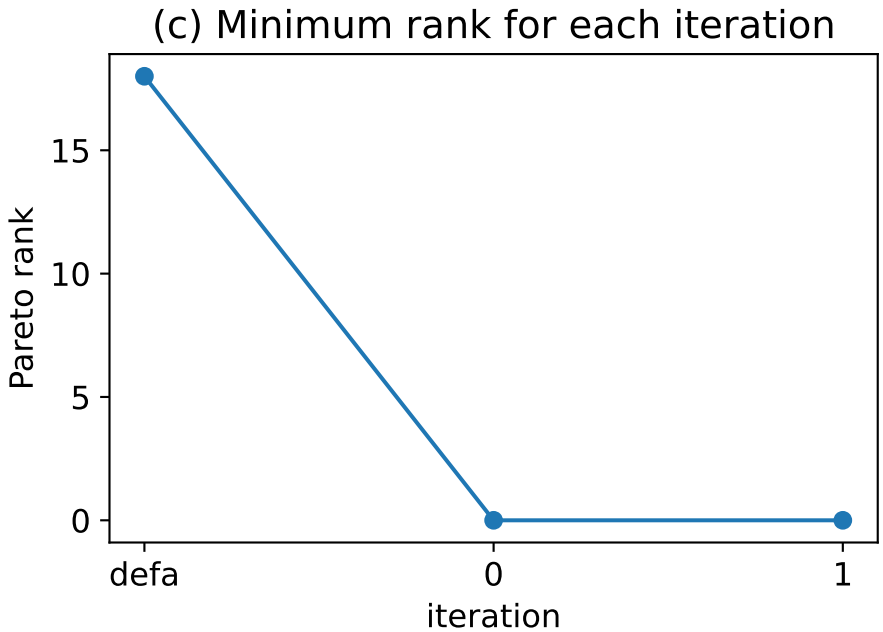




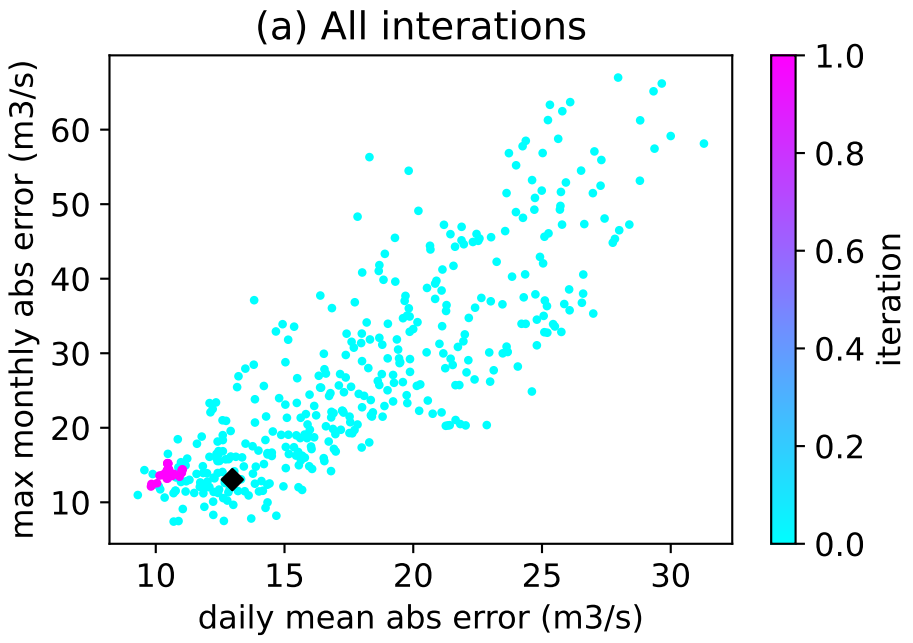
basinid: 48
hru_id: 1518862
lat_cen: 41.93231
lon_cen: -77.6206
AREA: 234.49 km2
elev_mean: 606.67 m

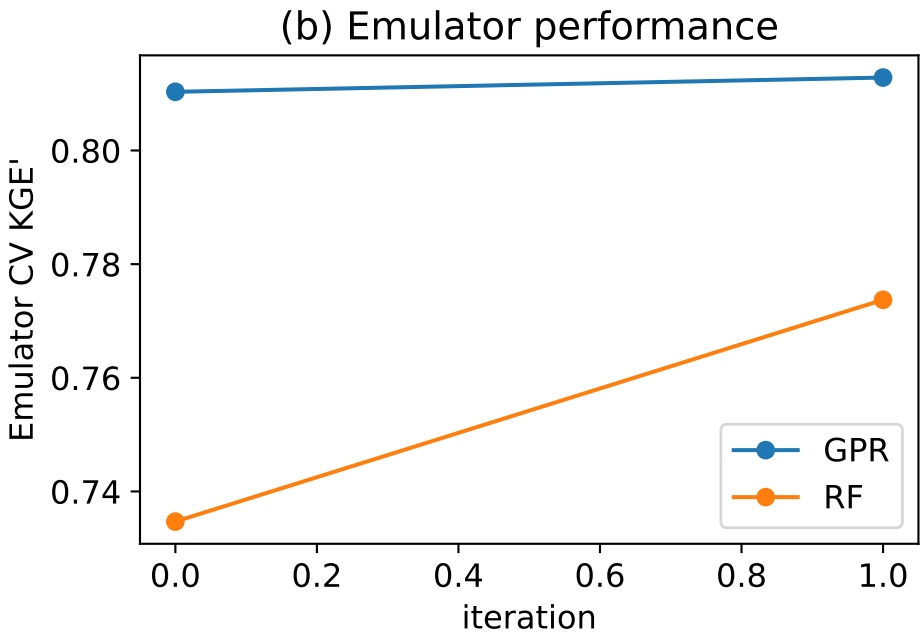


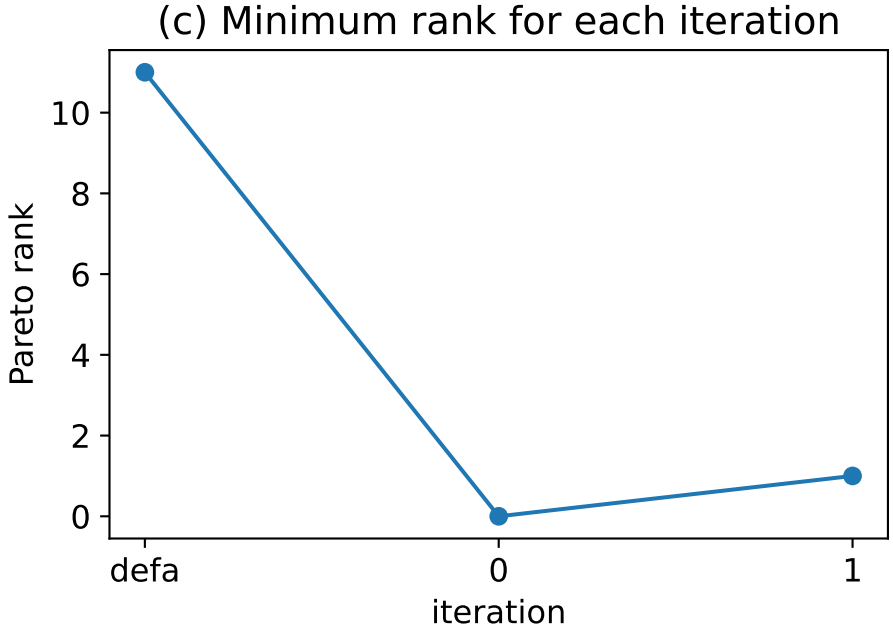




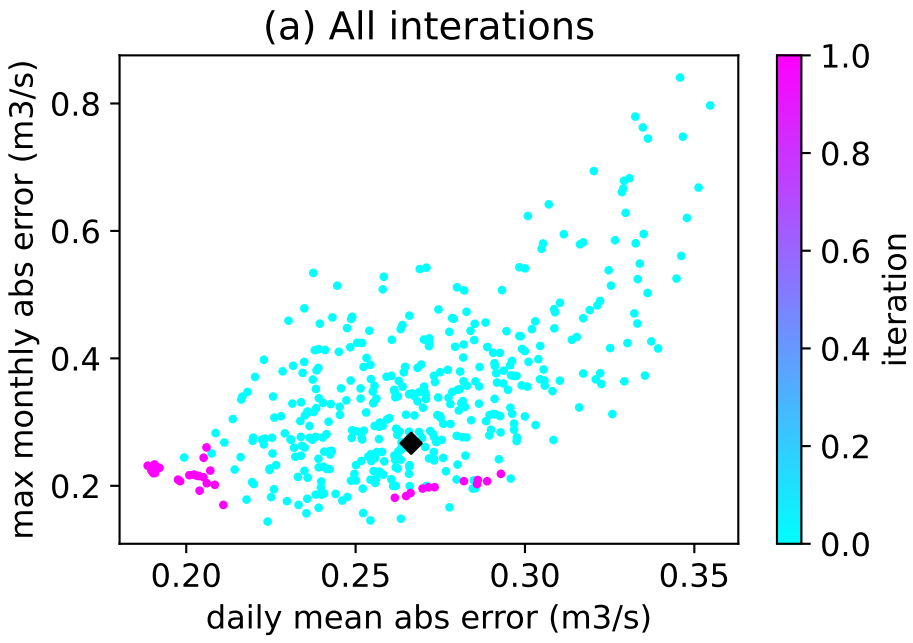
basinid: 49
hru_id: 1532000
lat_cen: 41.66388
lon_cen: -76.6915
AREA: 556.70 km2
elev_mean: 486.78 m

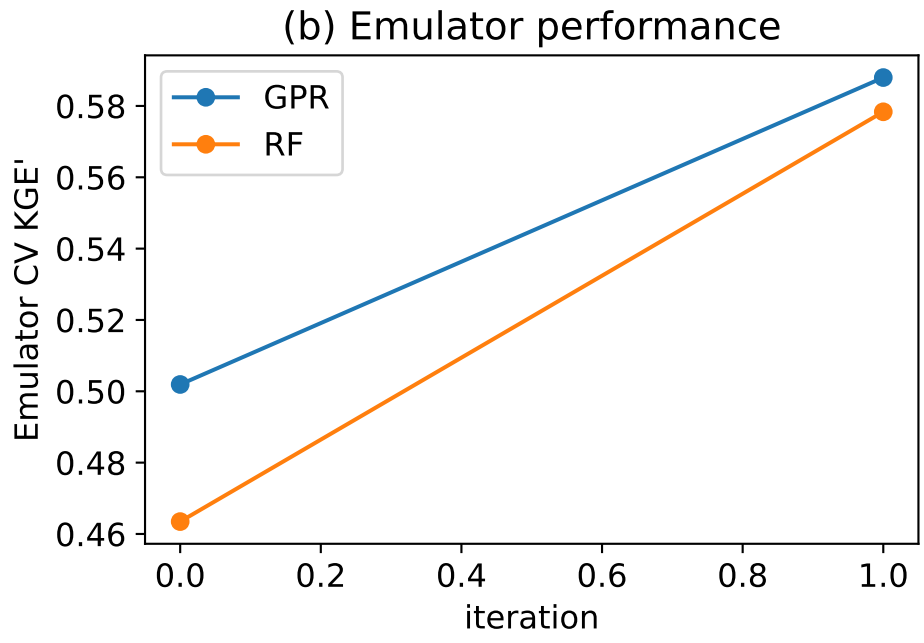


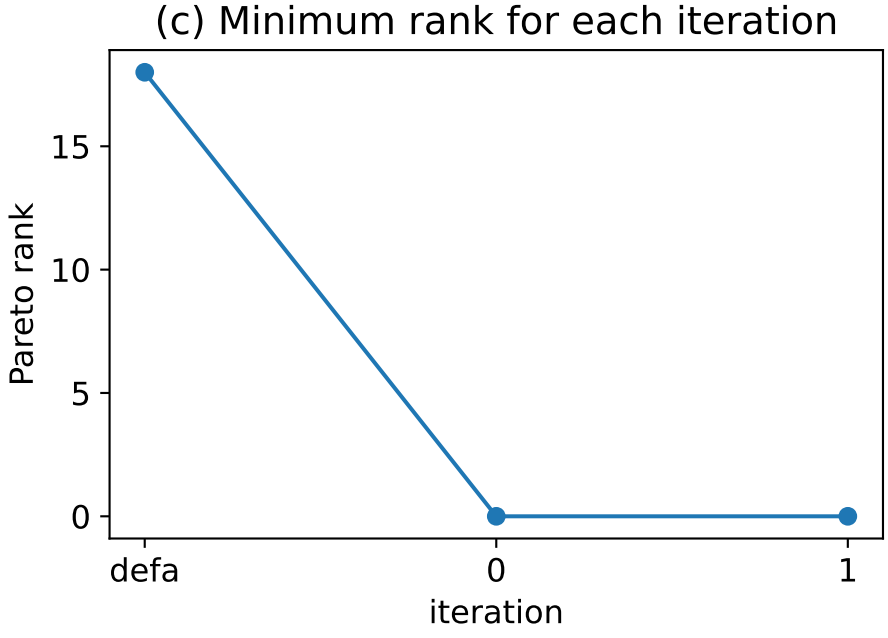




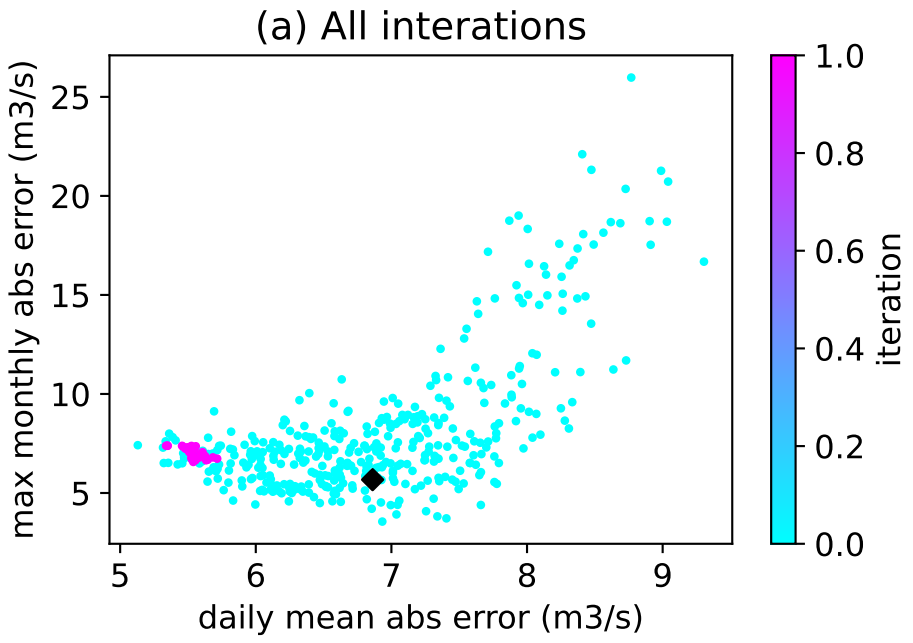
basinid: 50
hru_id: 1539000
lat_cen: 41.23694
lon_cen: -76.3416
AREA: 705.23 km2
elev_mean: 404.01 m

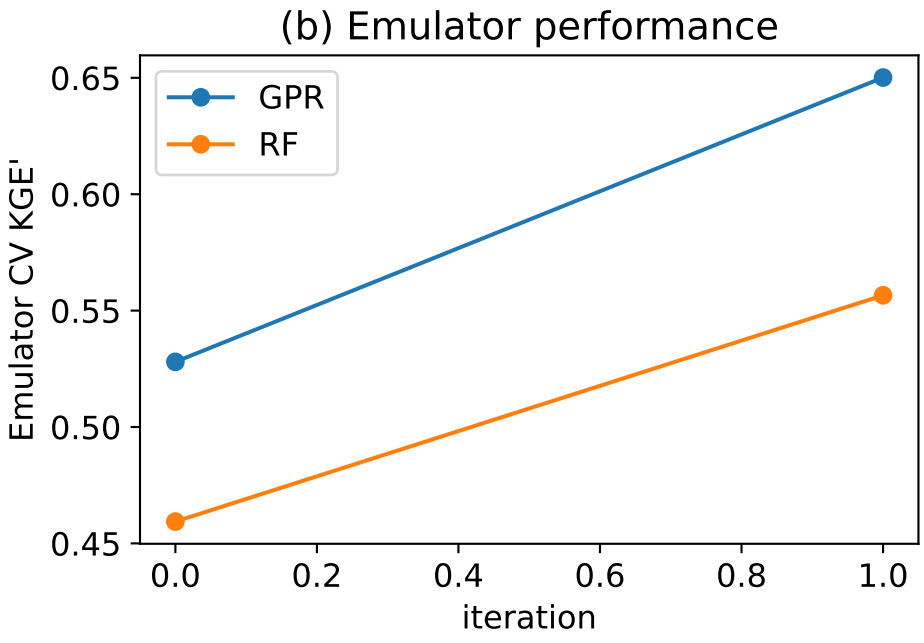


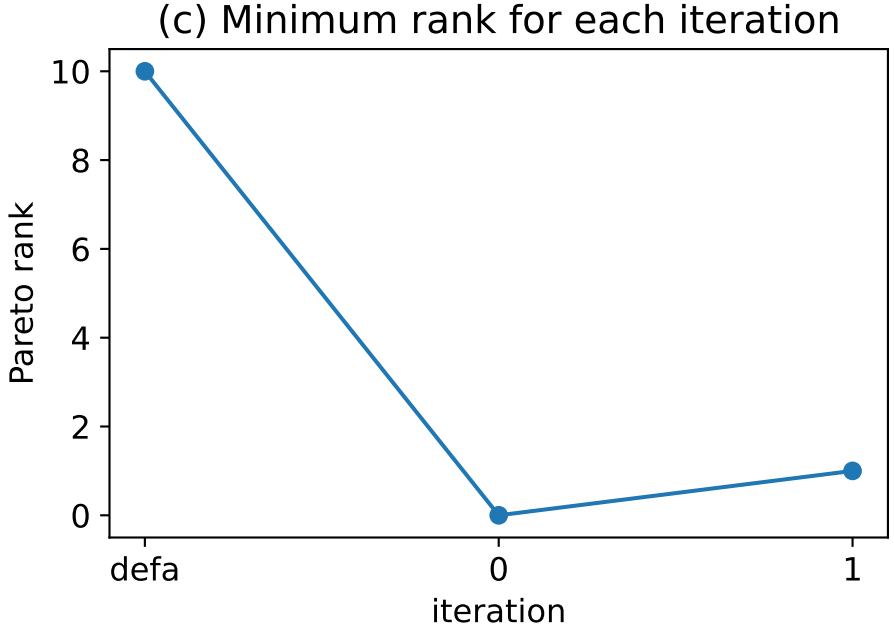




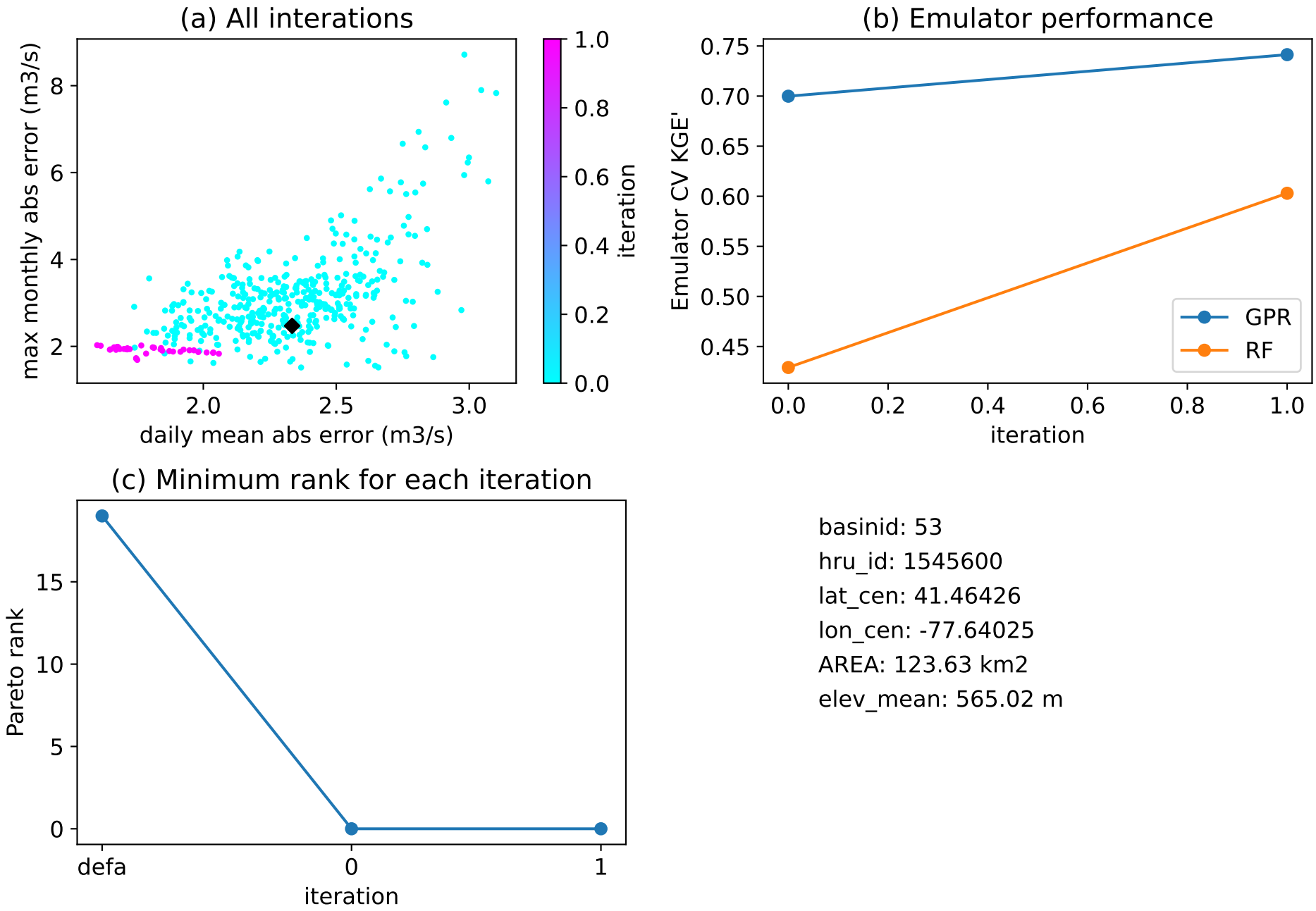
basinid: 51
hru_id: 1542810
lat_cen: 41.6115
lon_cen: -78.2881
AREA: 13.58 km2
elev_mean: 555.46 m

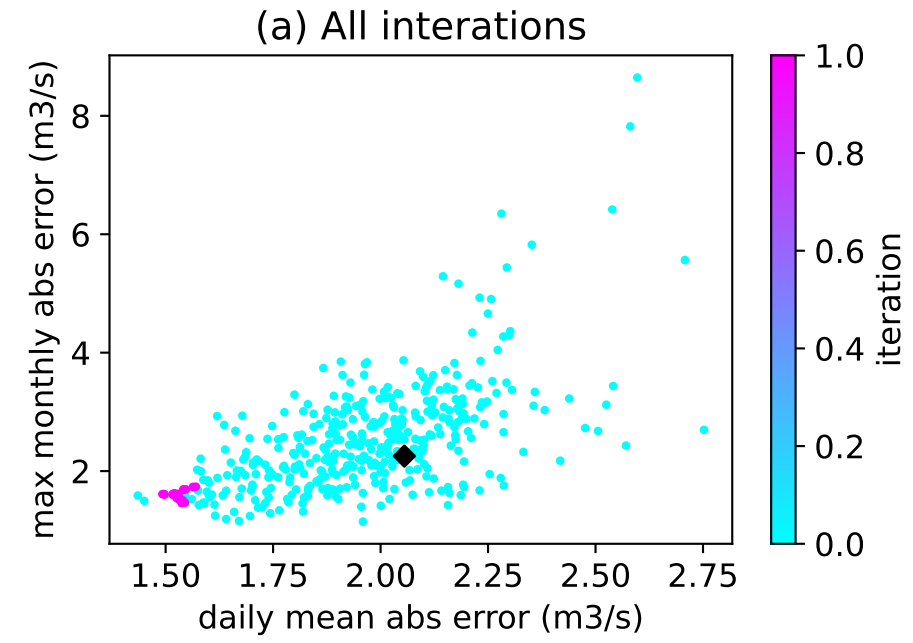


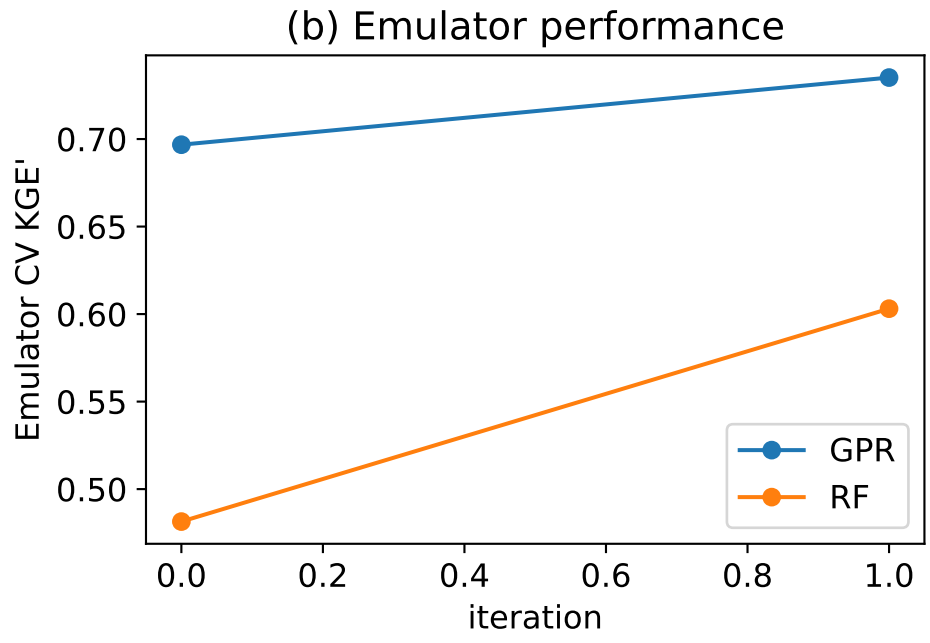


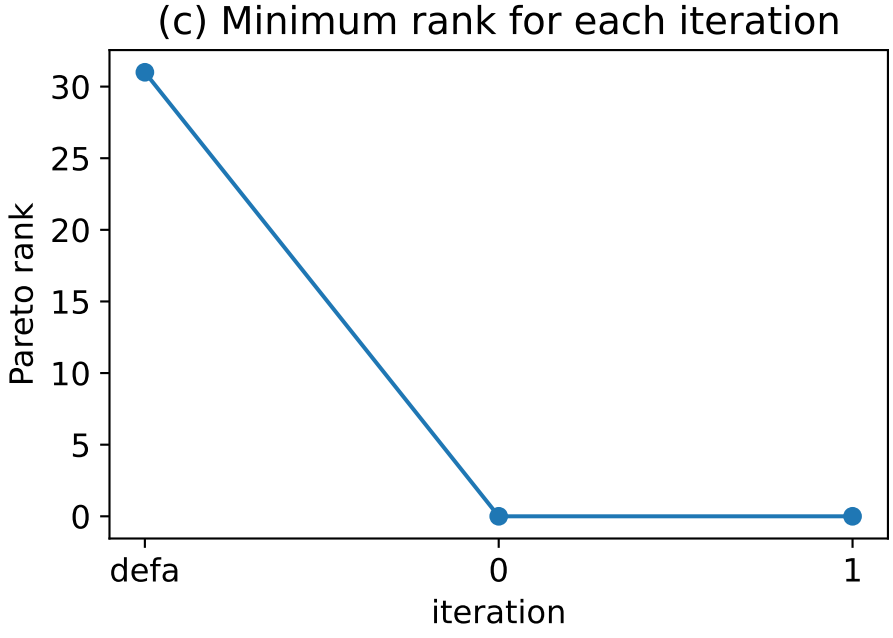


basinid: 52
hru_id: 1544500
lat_cen: 41.58549
lon_cen: -77.72149
AREA: 363.08 km2
elev_mean: 576.87 m

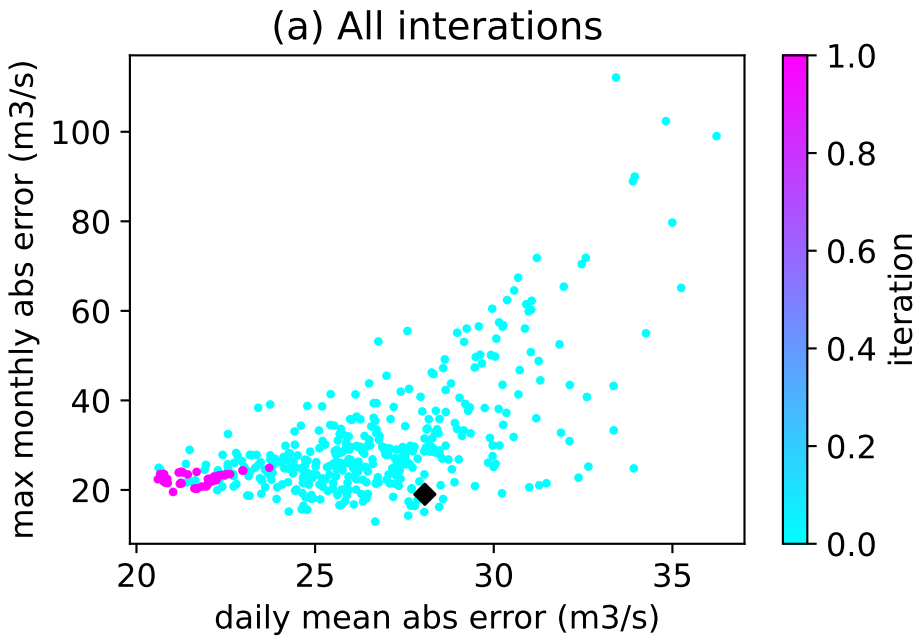

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 53
hru_id: 1545600
lat_cen: 41.46426
lon_cen: -77.64025
AREA: 123.63 km2
elev_mean: 565.02 m

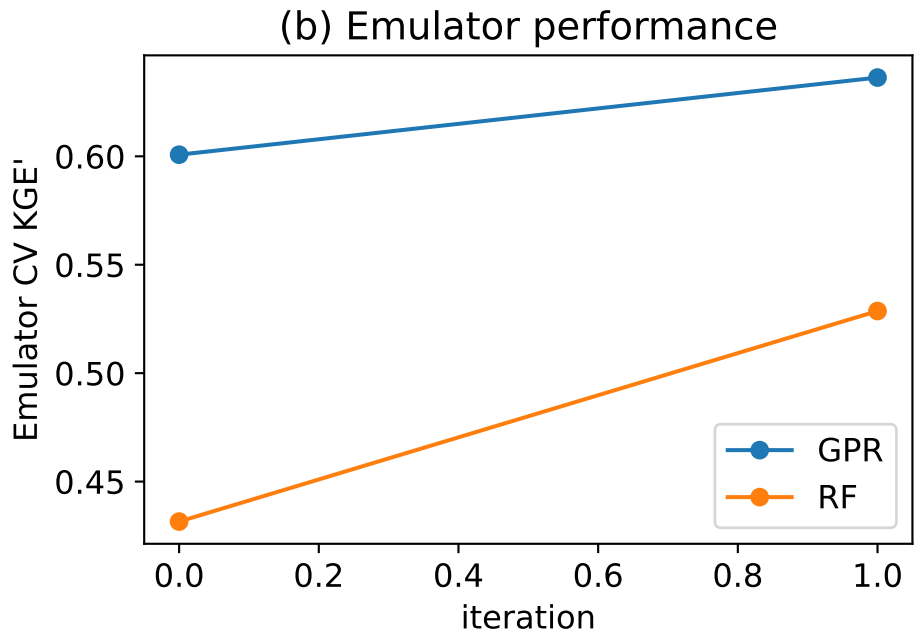


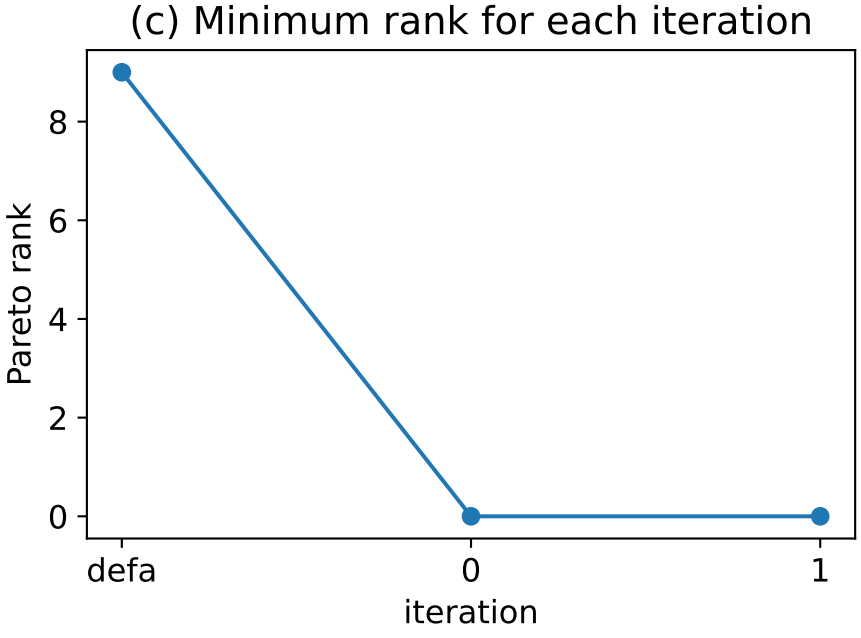




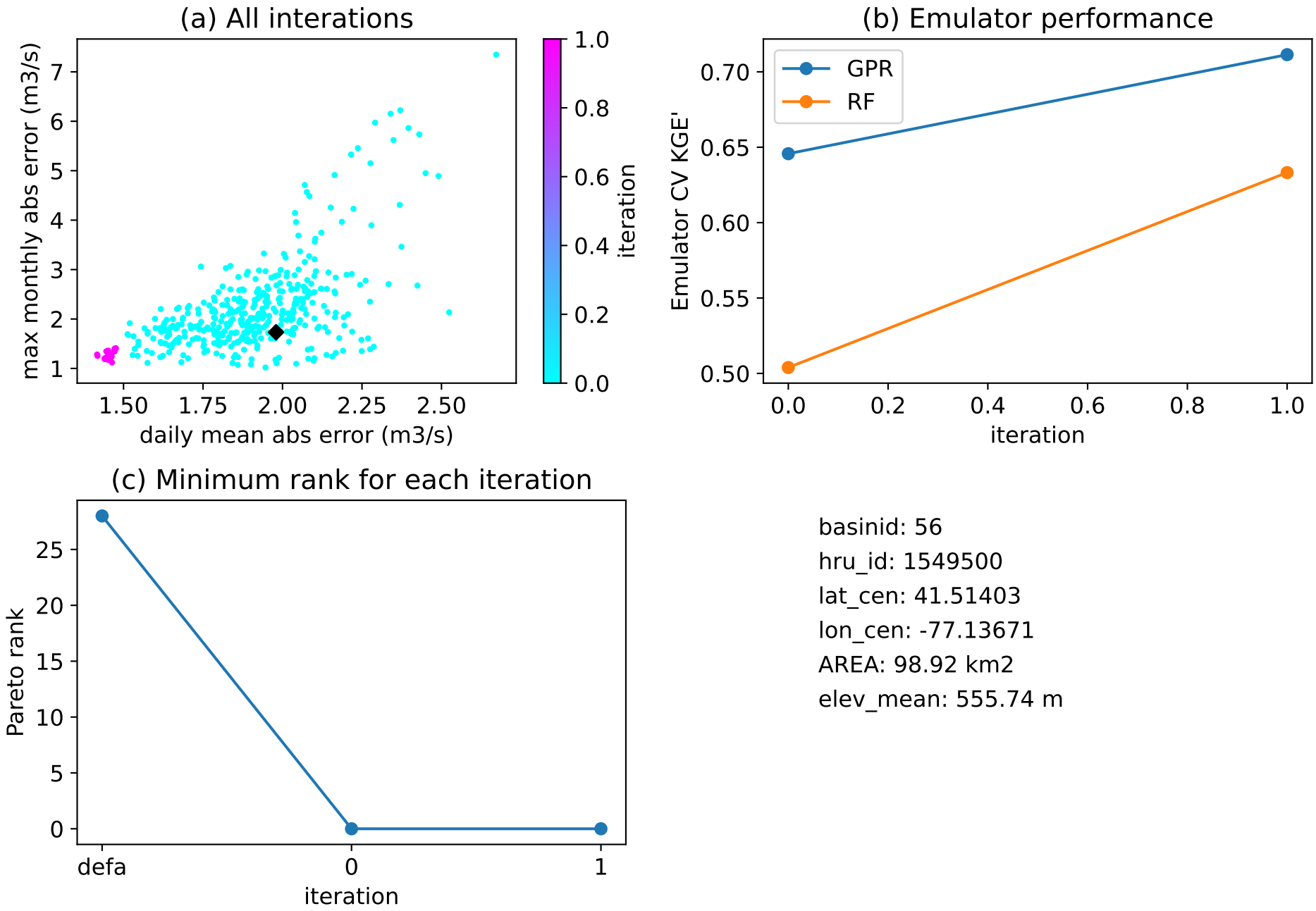
basinid: 54
hru_id: 1547700
lat_cen: 41.04534
lon_cen: -77.74363
AREA: 115.19 km2
elev_mean: 404.93 m

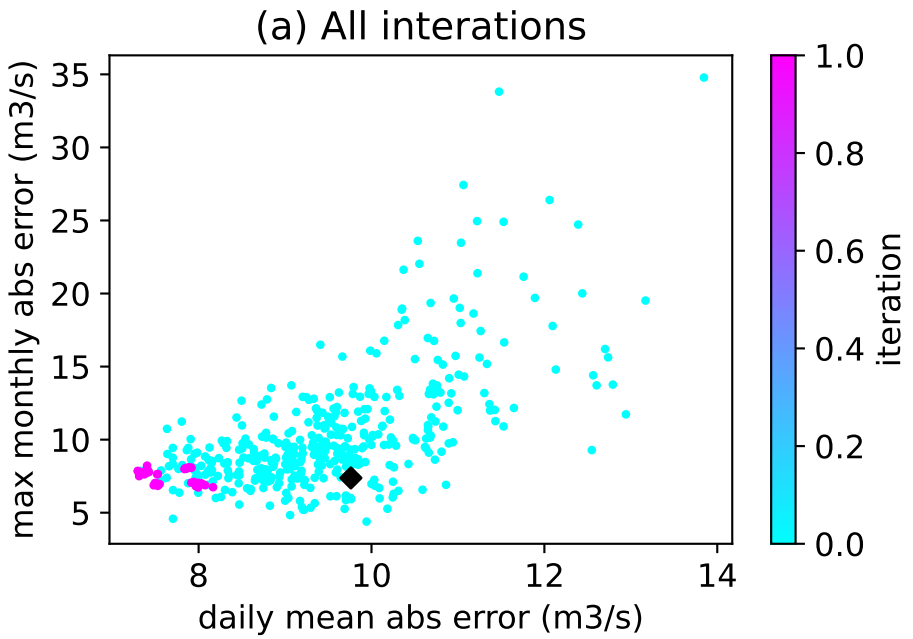


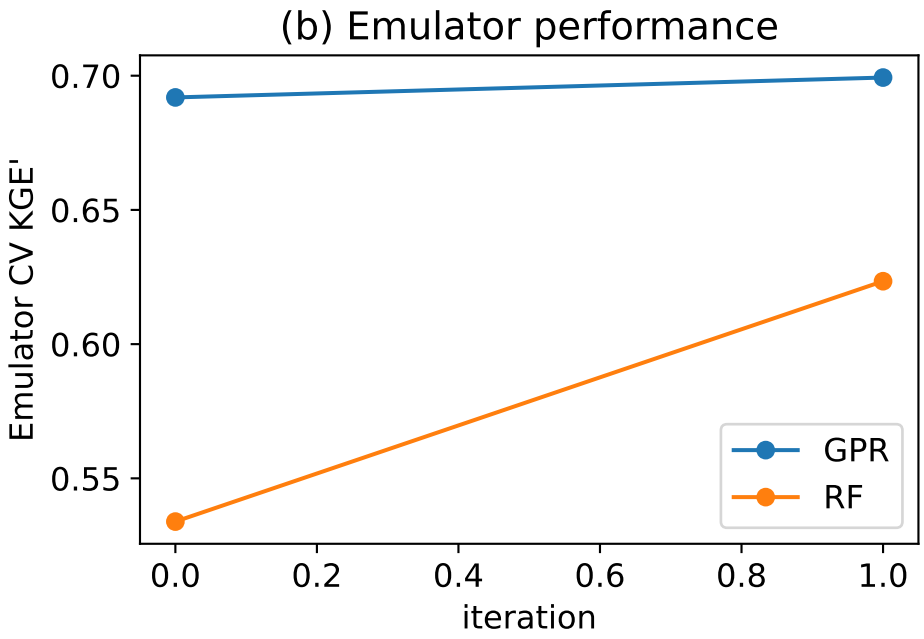


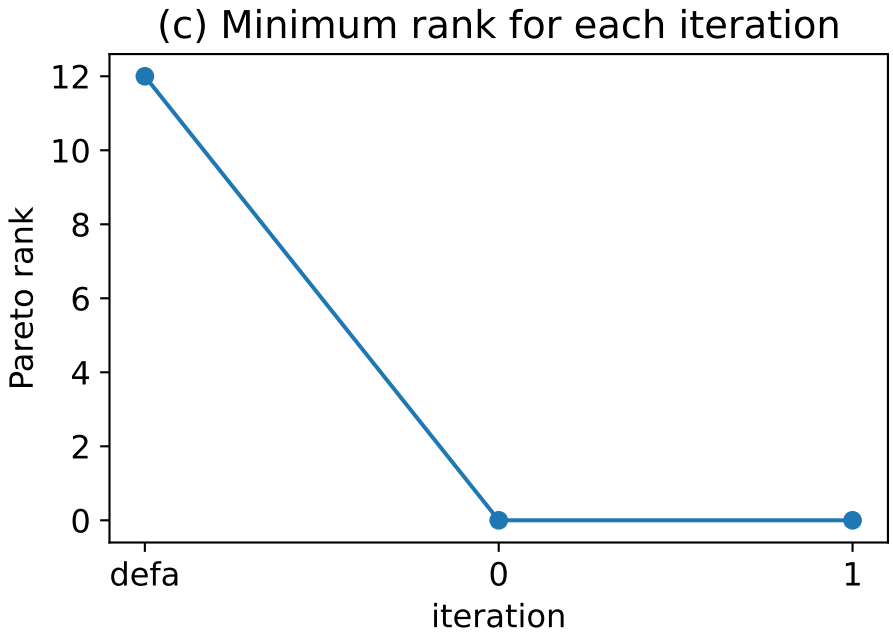


basinid: 55
hru_id: 1548500
lat_cen: 41.71098
lon_cen: -77.50991
AREA: 1558.01 km2
elev_mean: 582.00 m

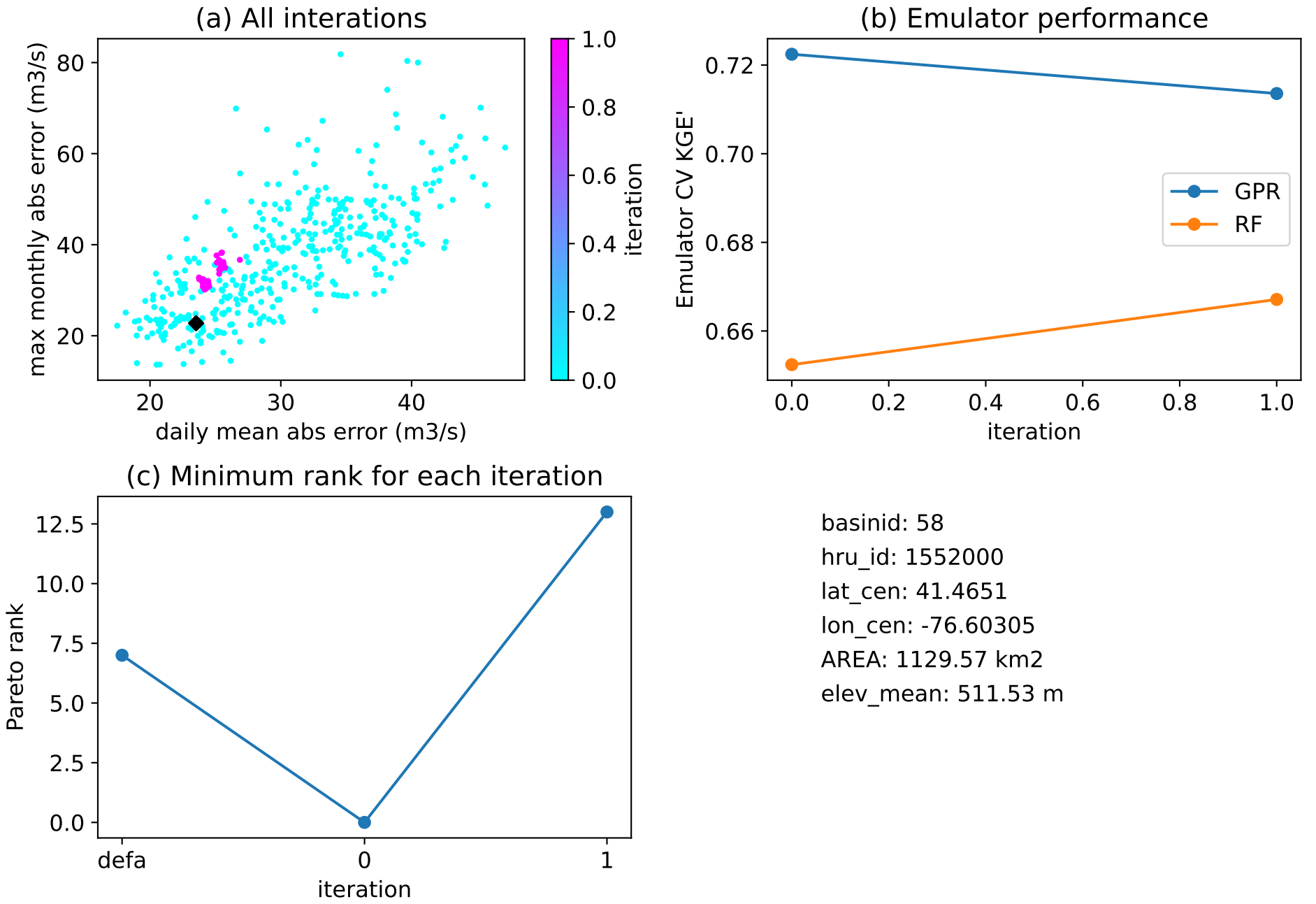

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 56
hru_id: 1549500
lat_cen: 41.51403
lon_cen: -77.13671
AREA: 98.92 km2
elev_mean: 555.74 m

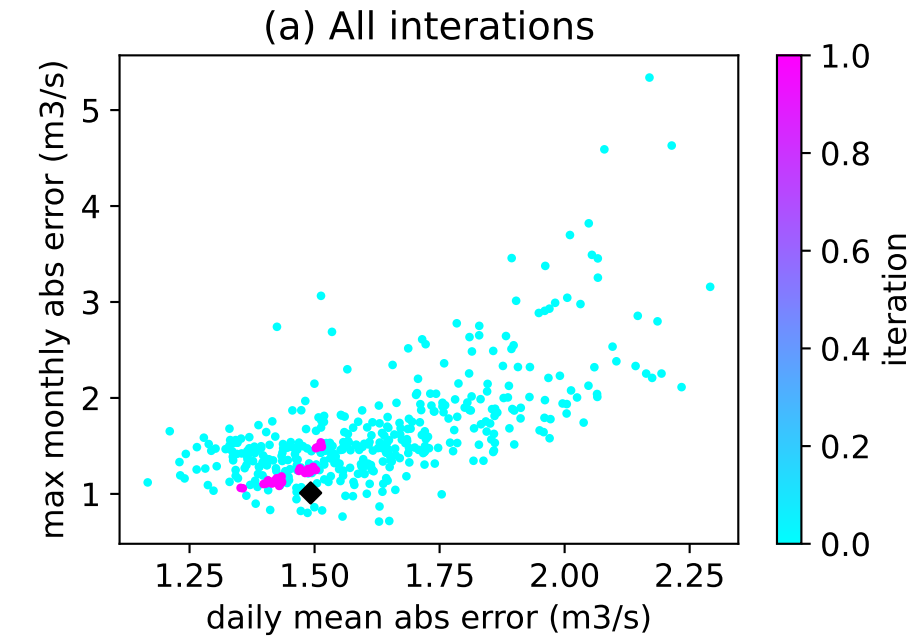


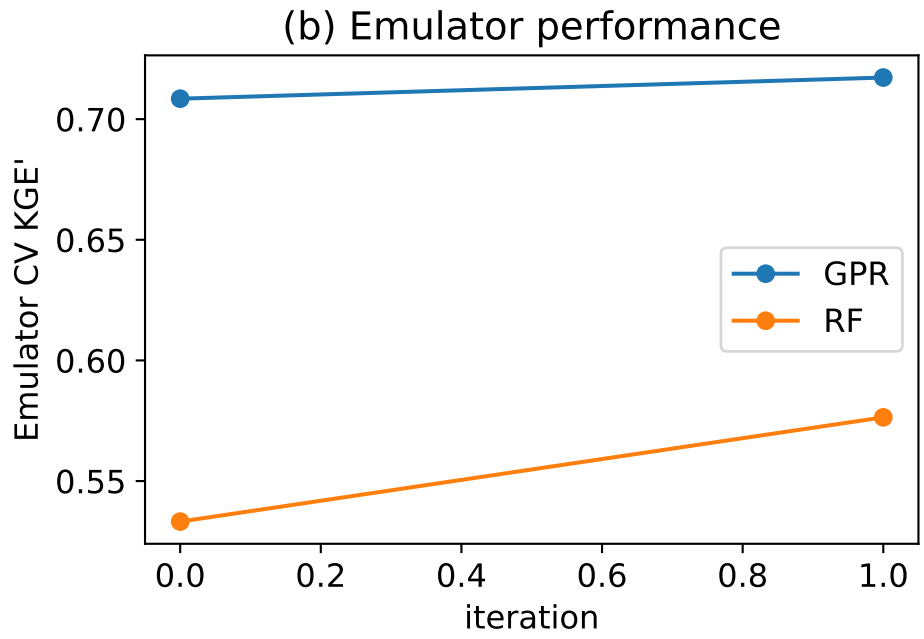


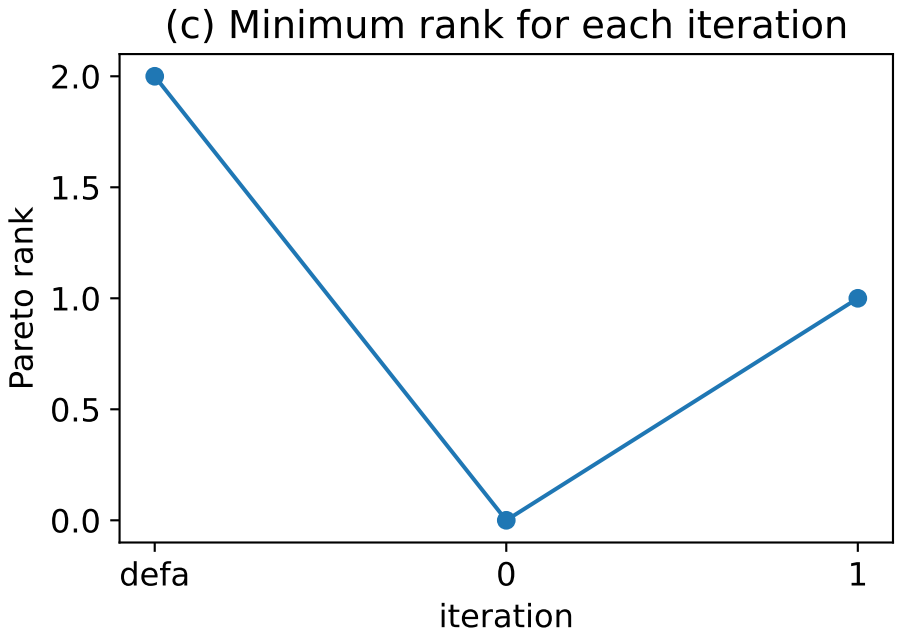


basinid: 57
hru_id: 1550000
lat_cen: 41.53137
lon_cen: -76.9518
AREA: 456.32 km2
elev_mean: 529.75 m

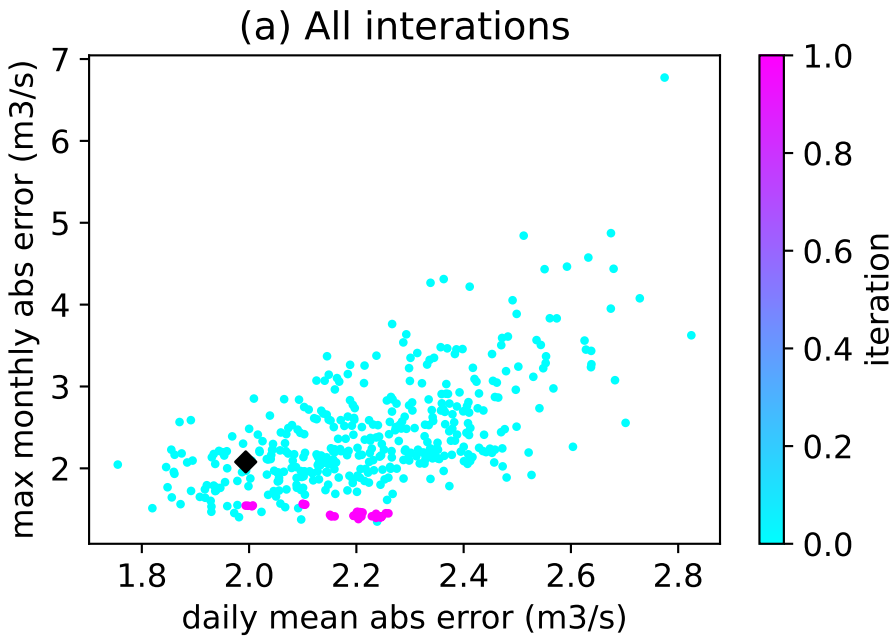

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 58
hru_id: 1552000
lat_cen: 41.4651
lon_cen: -76.60305
AREA: 1129.57 km2
elev_mean: 511.53 m

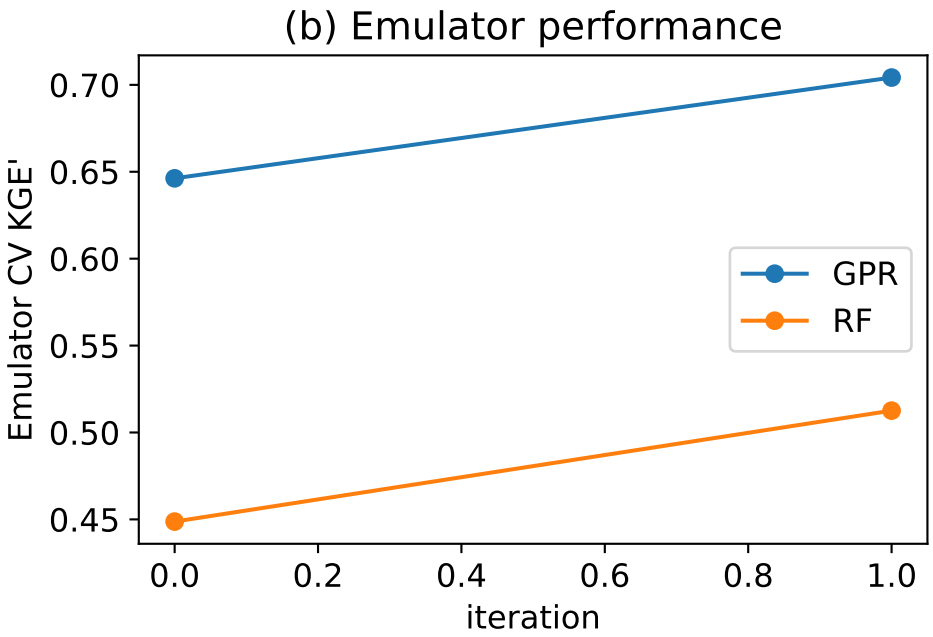


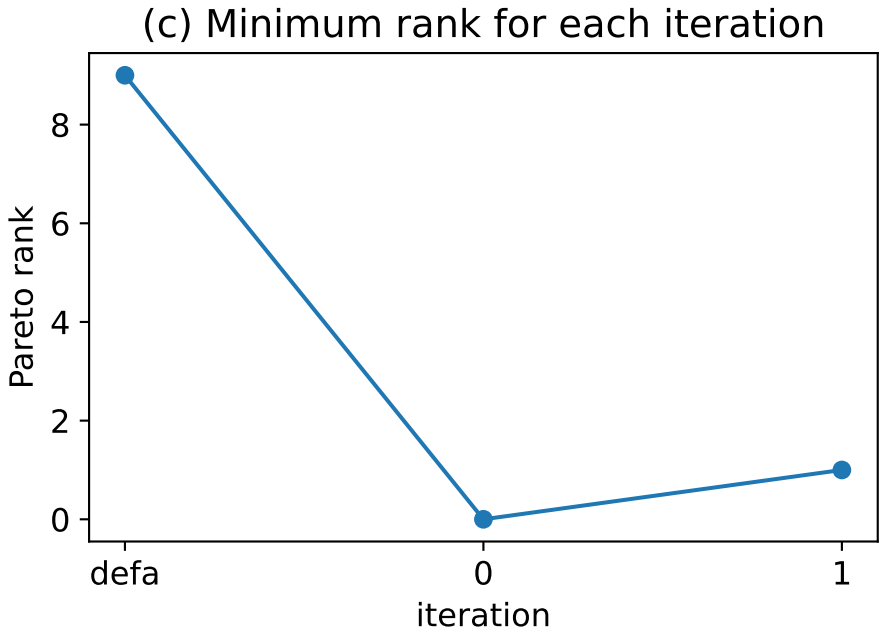




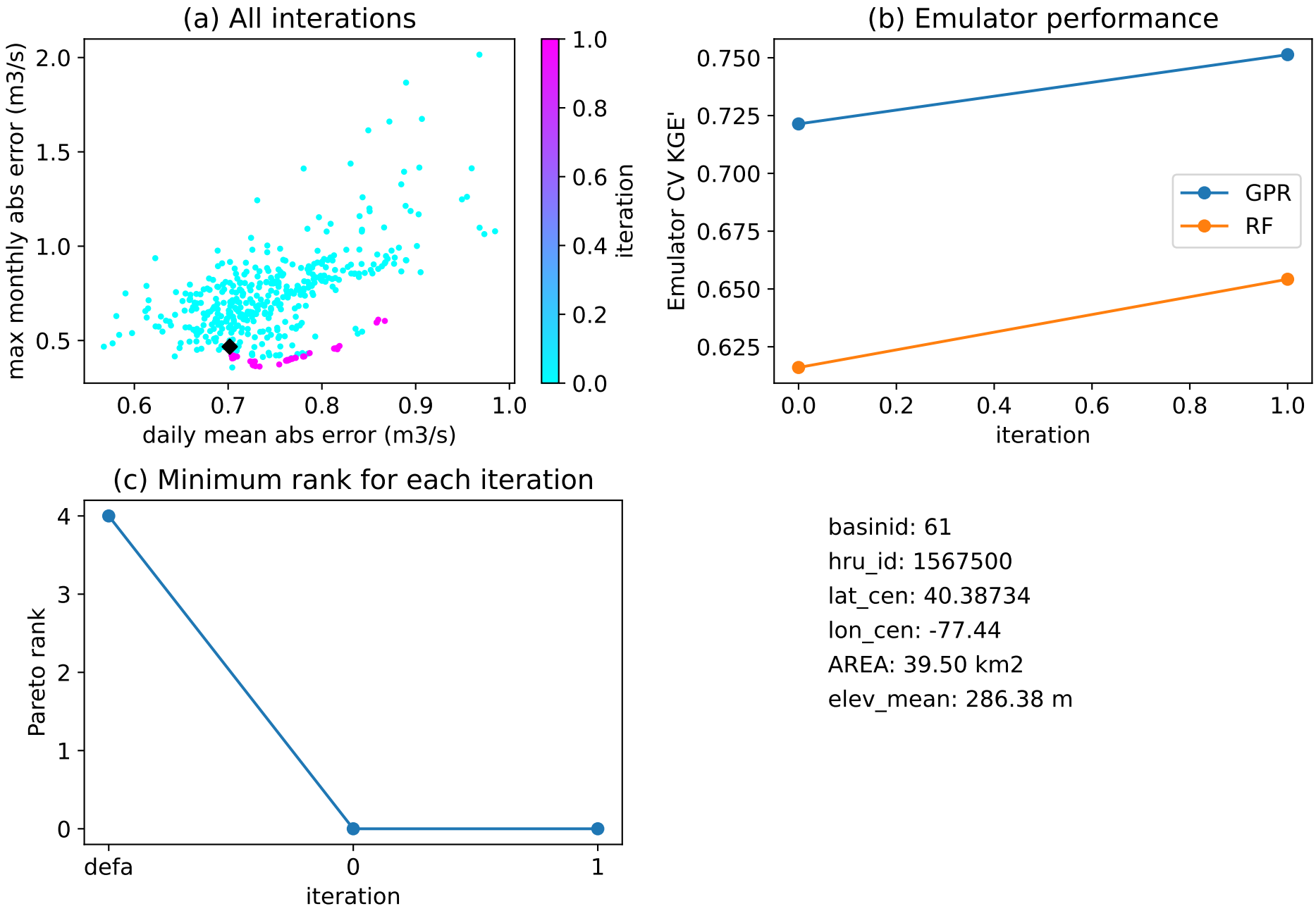
basinid: 59
hru_id: 1552500
lat_cen: 41.37431
lon_cen: -76.46825
AREA: 62.06 km2
elev_mean: 548.08 m

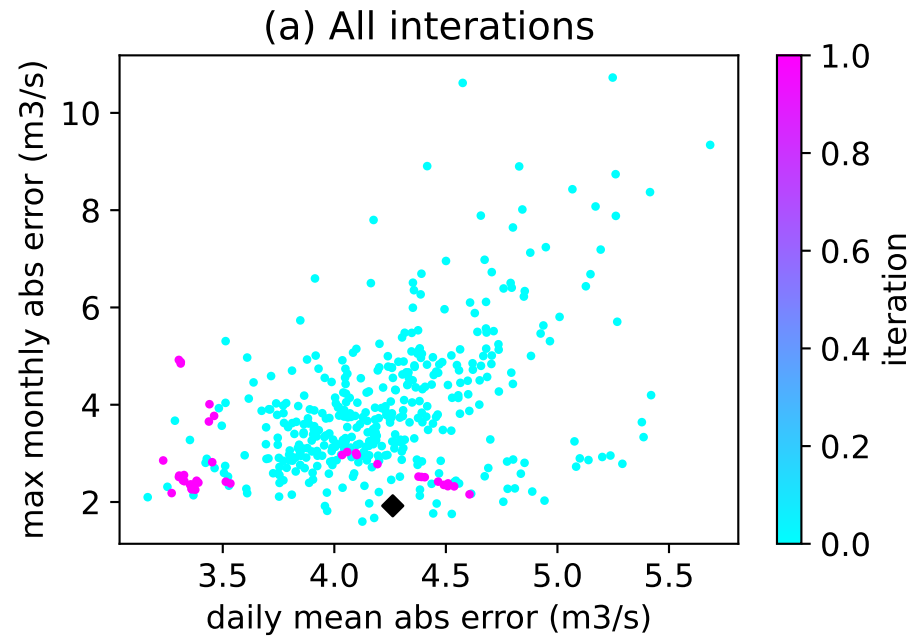


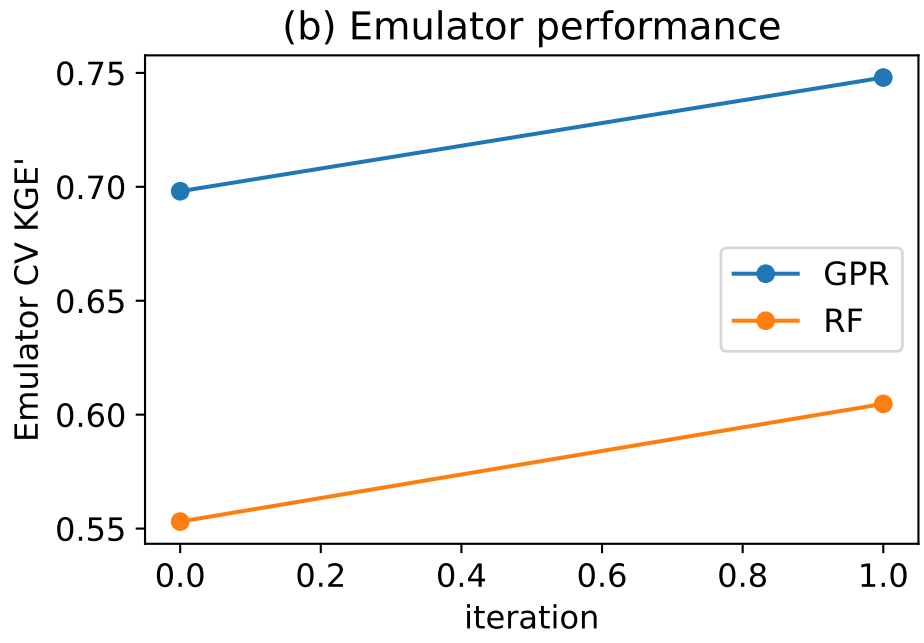


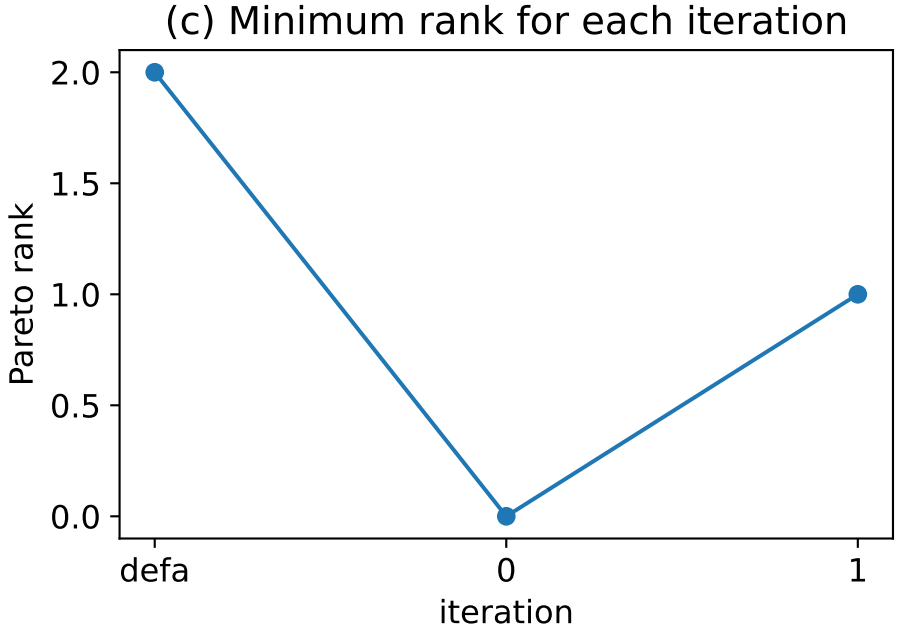


basinid: 60
hru_id: 1557500
lat_cen: 40.74115
lon_cen: -78.21291
AREA: 117.78 km2
elev_mean: 491.40 m

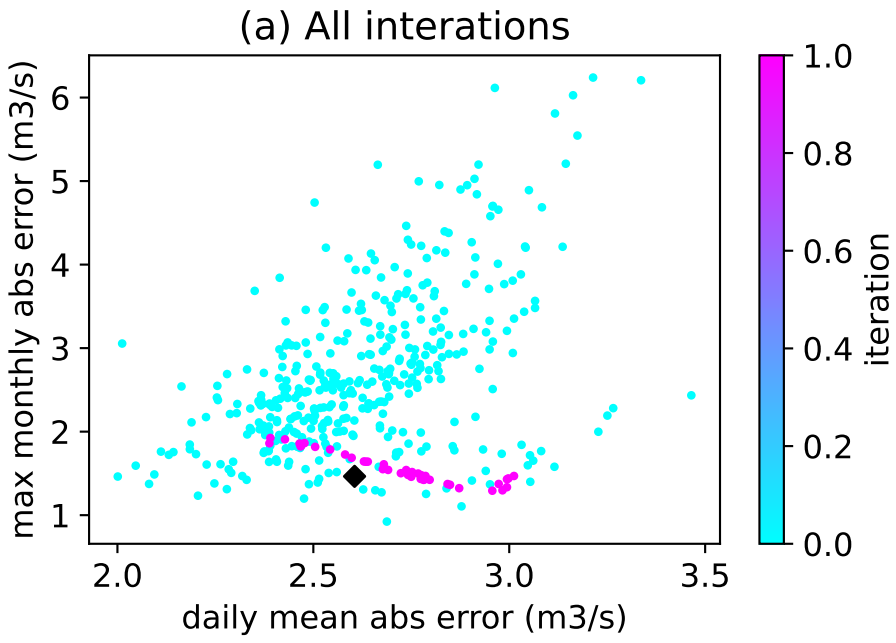

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 61
hru_id: 1567500
lat_cen: 40.38734
lon_cen: -77.44
AREA: 39.50 km2
elev_mean: 286.38 m

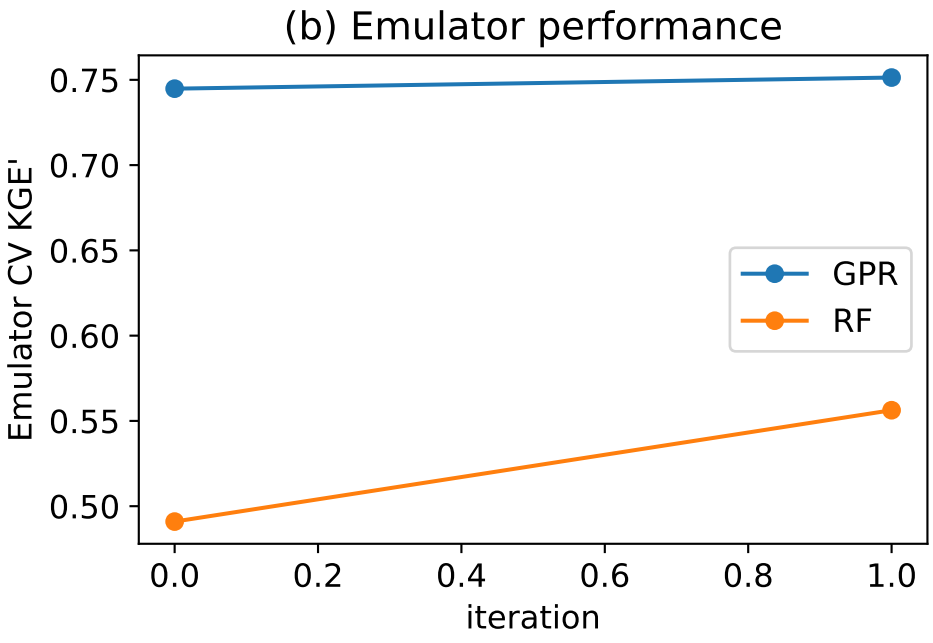


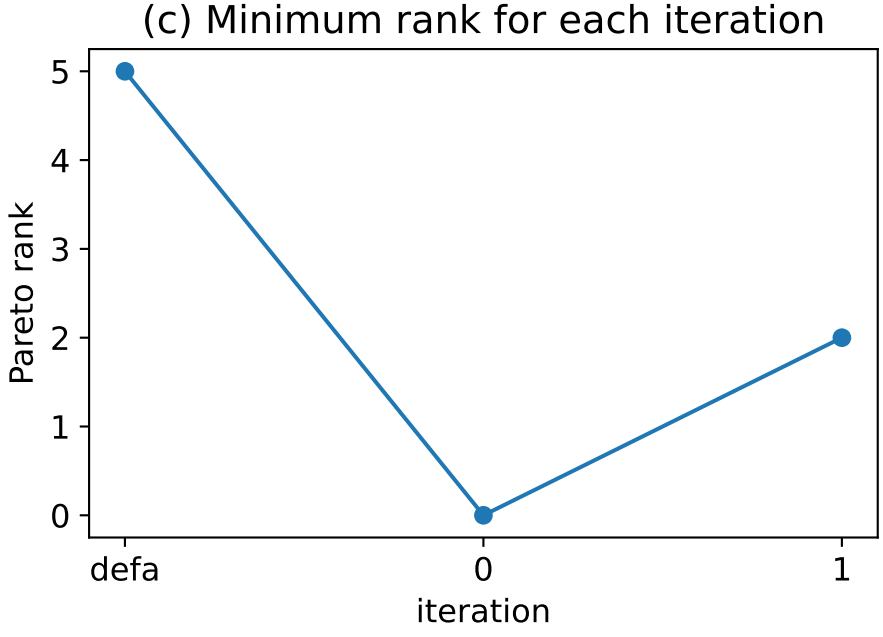




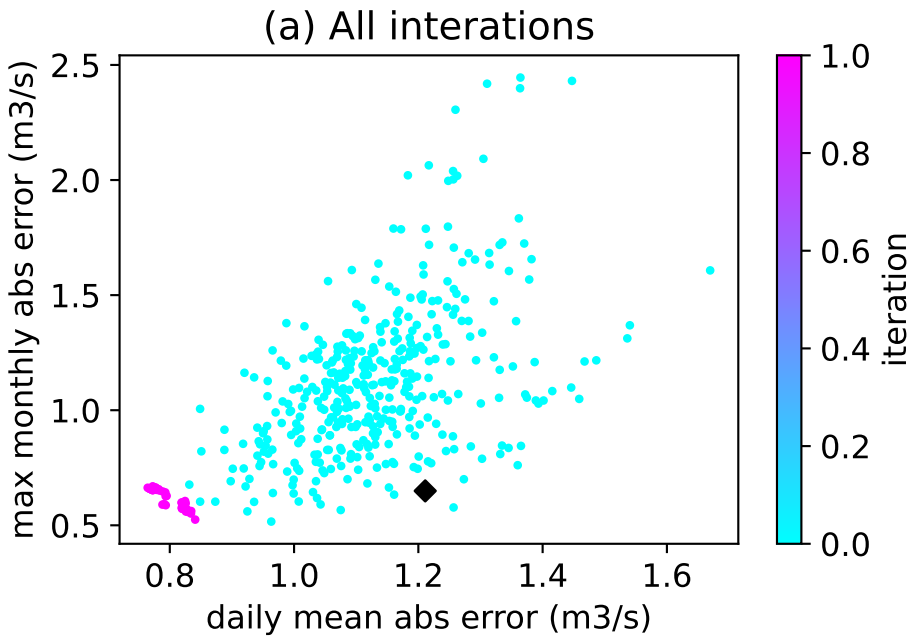
basinid: 62
hru_id: 1580000
lat_cen: 39.693
lon_cen: -76.53141
AREA: 246.97 km2
elev_mean: 195.17 m

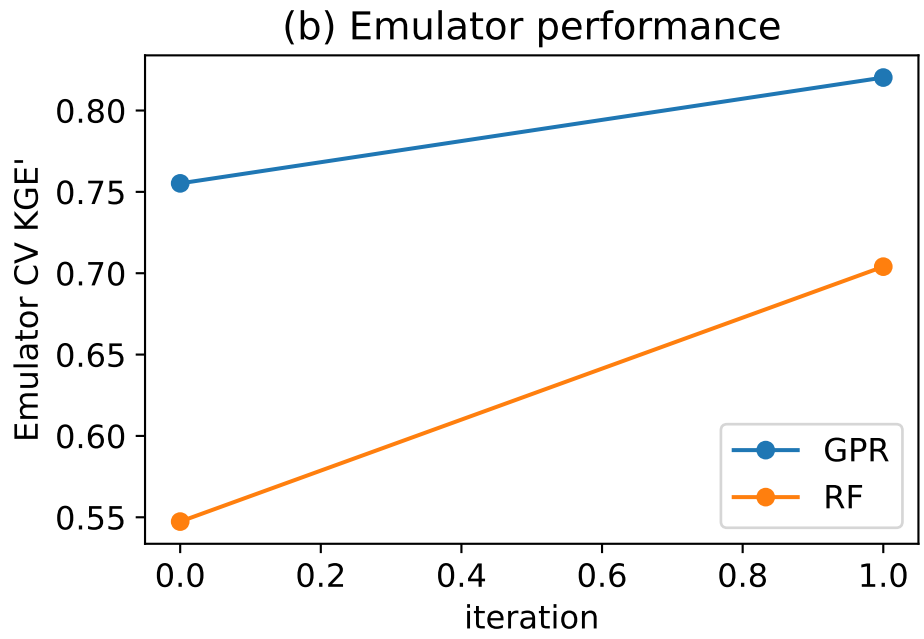


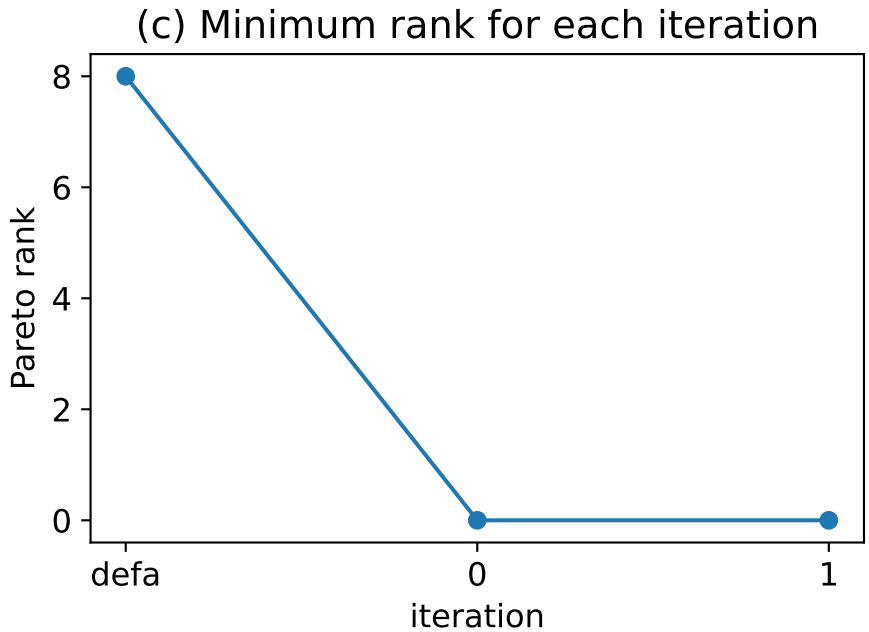




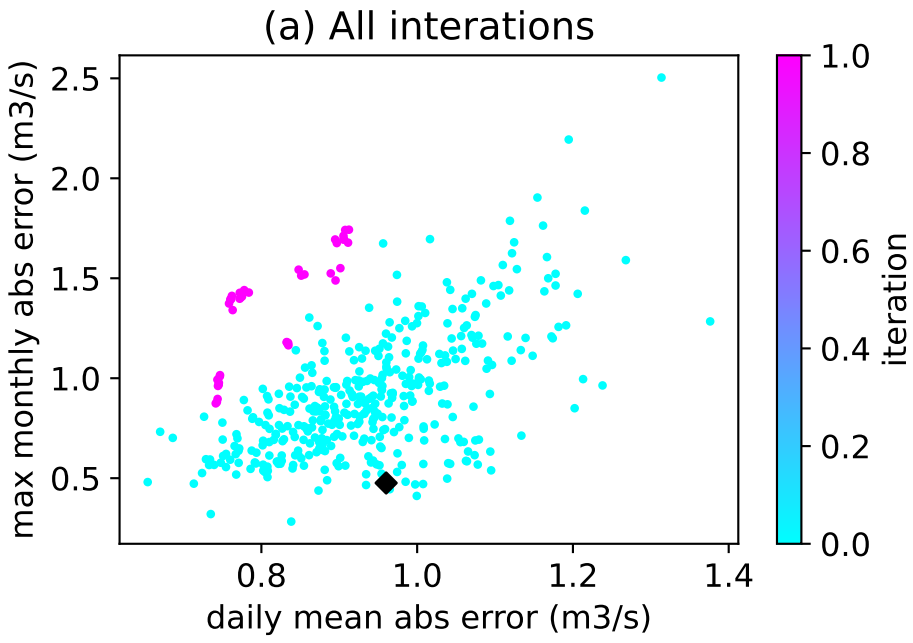
basinid: 63
hru_id: 1583500
lat_cen: 39.53296
lon_cen: -76.76289
AREA: 163.43 km2
elev_mean: 167.85 m

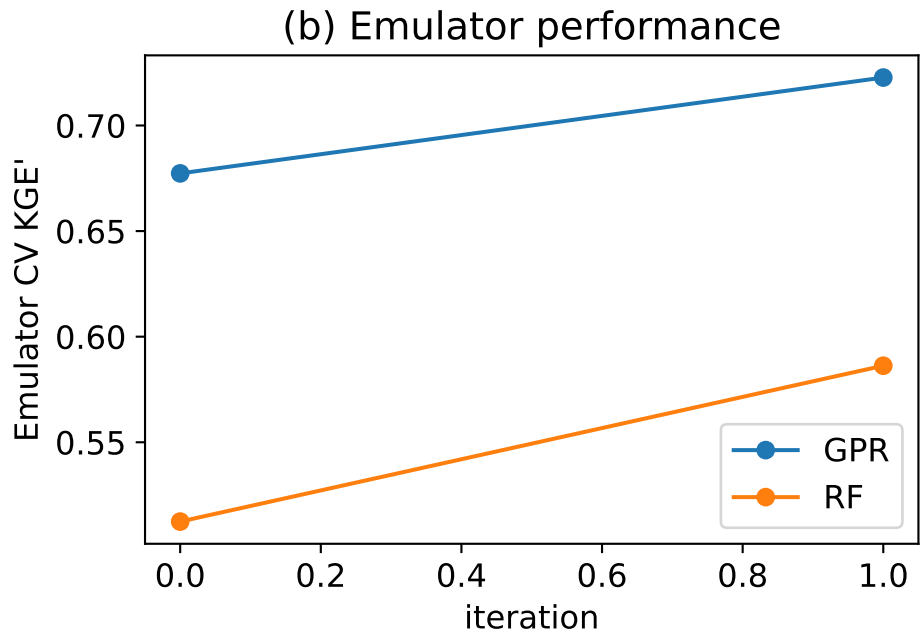


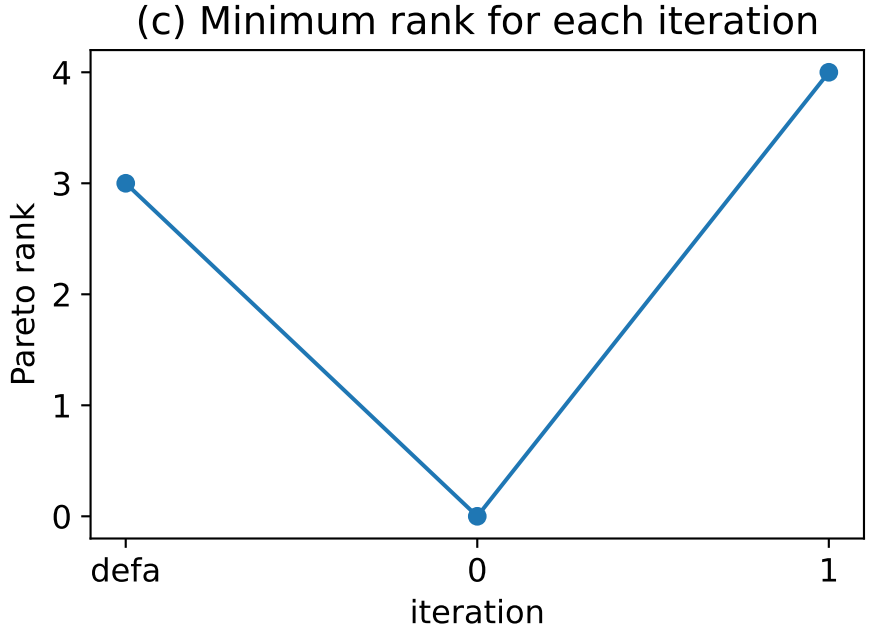




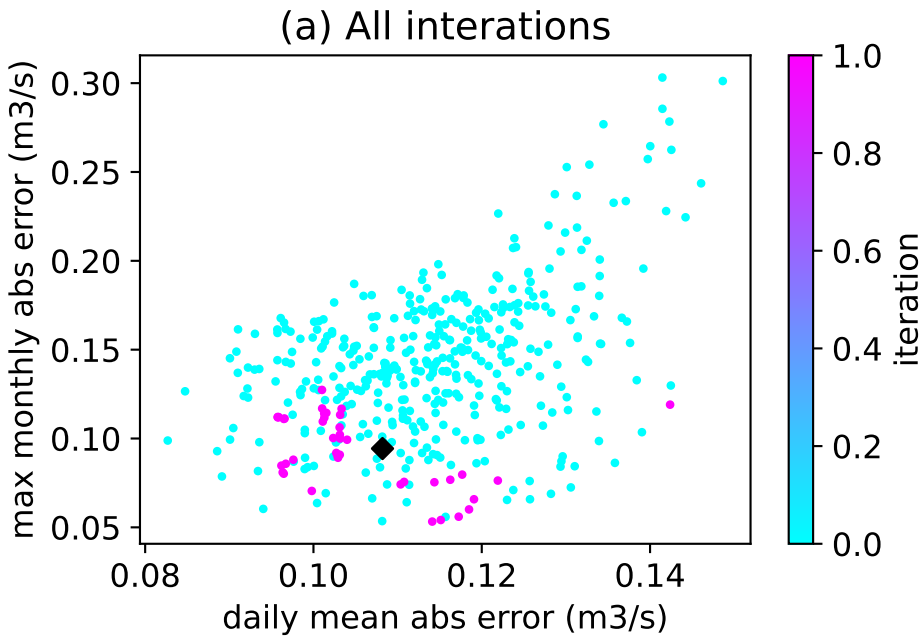
basinid: 64
hru_id: 1586610
lat_cen: 39.48942
lon_cen: -77.01429
AREA: 72.81 km2
elev_mean: 215.72 m

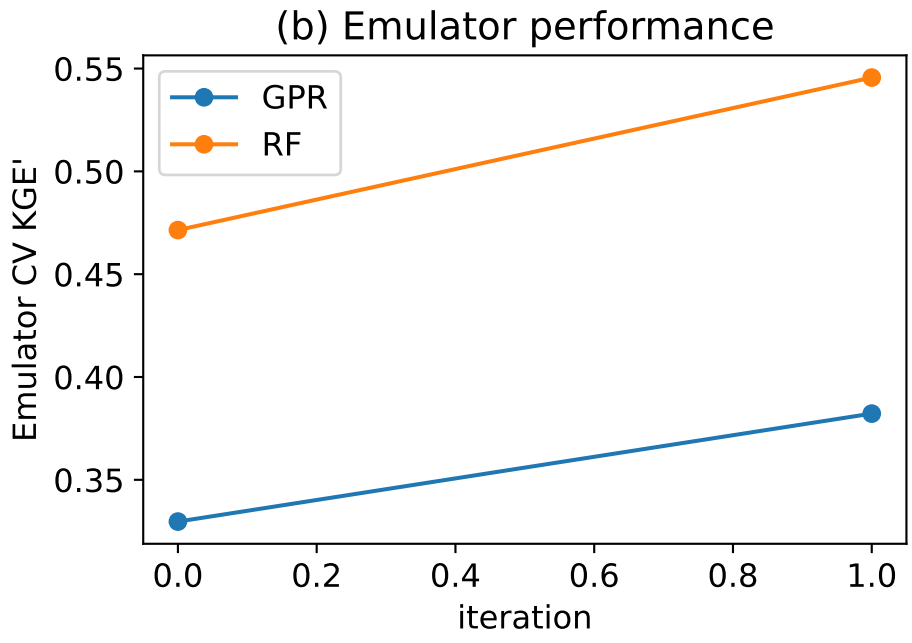


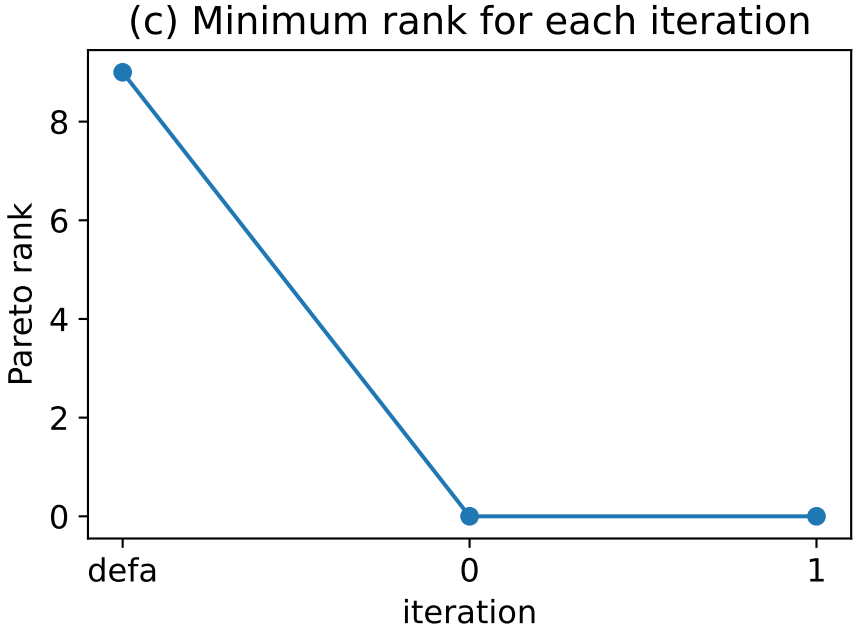




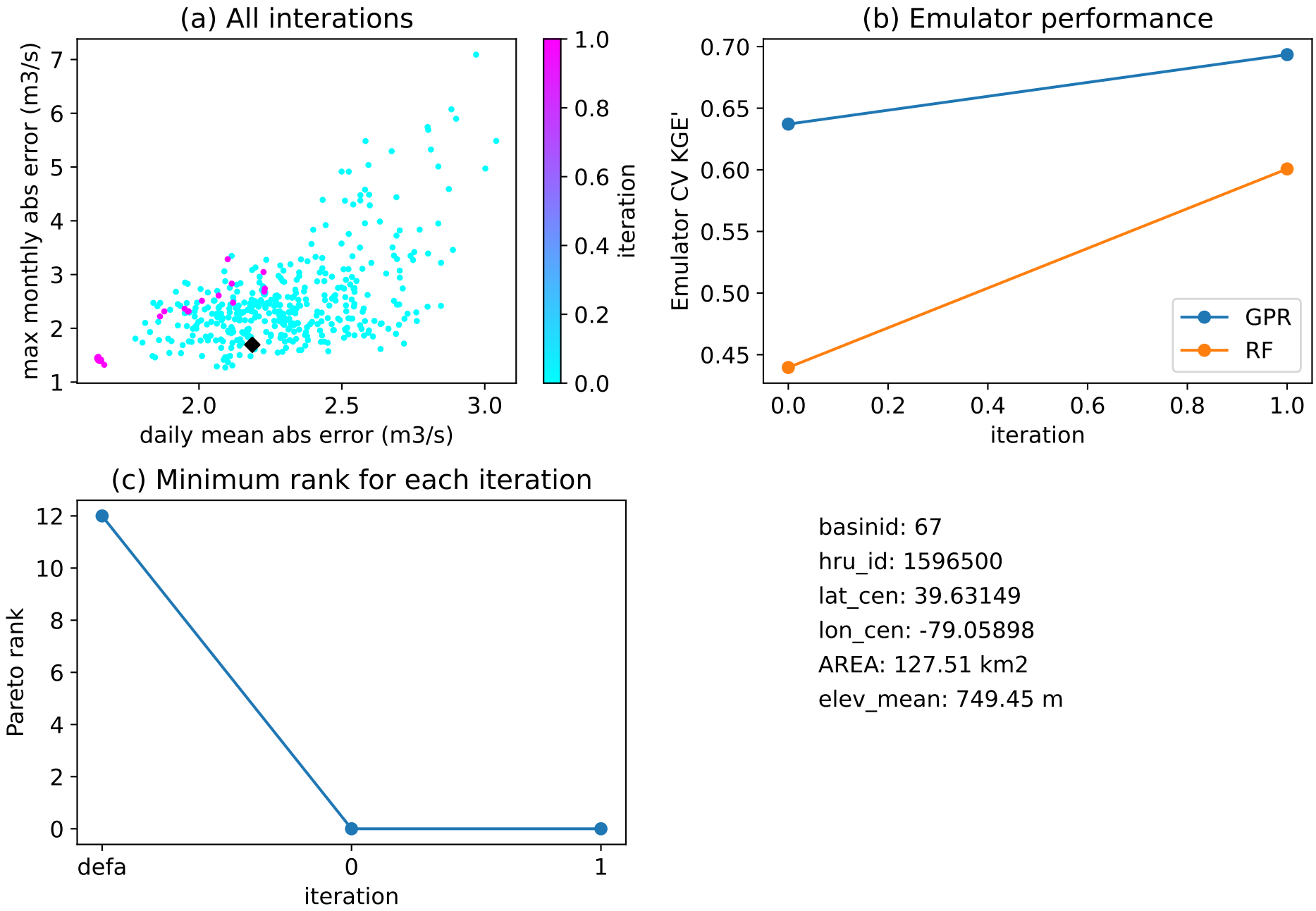
basinid: 65
hru_id: 1591400
lat_cen: 39.30656
lon_cen: -77.06386
AREA: 59.61 km2
elev_mean: 171.45 m

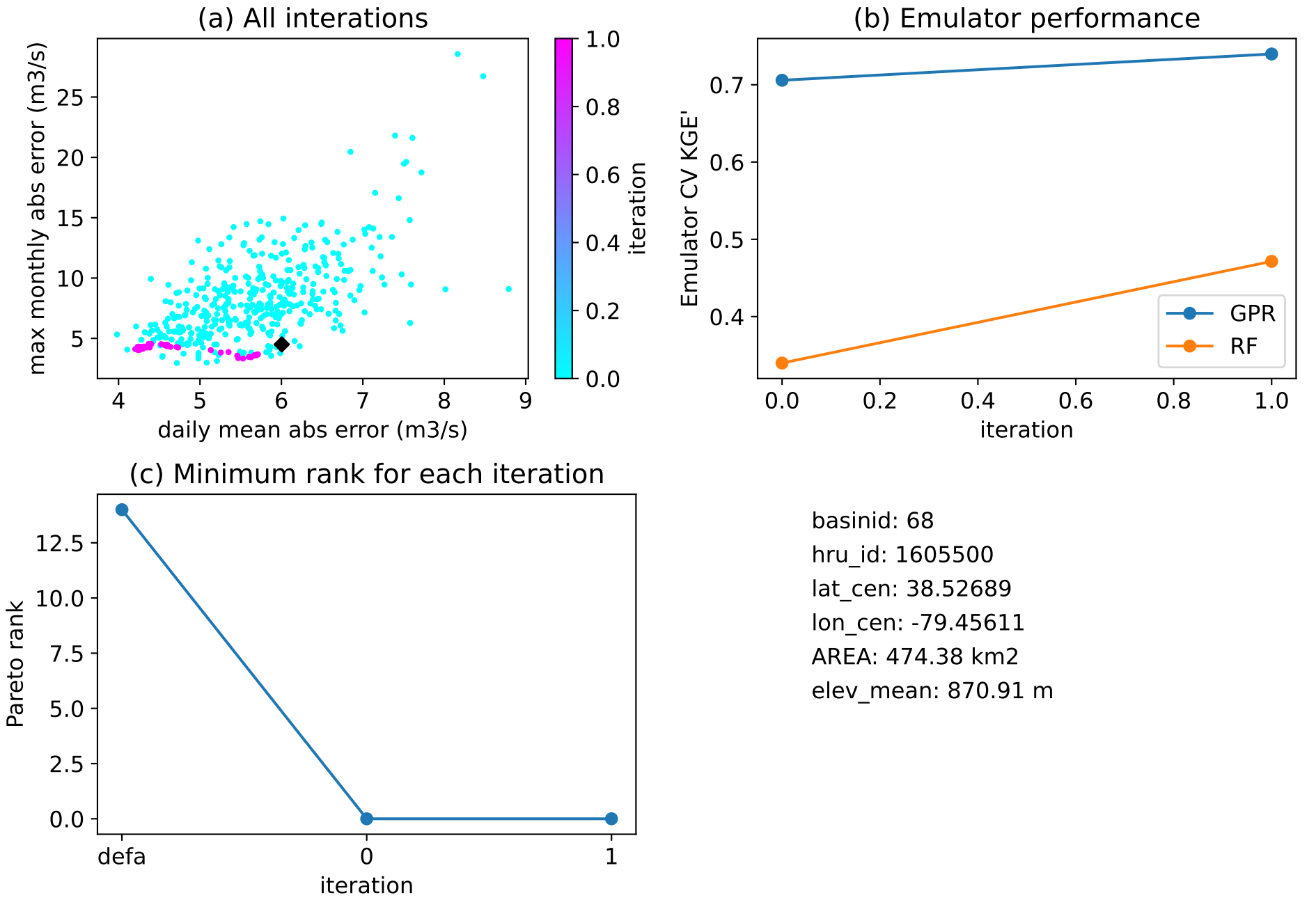


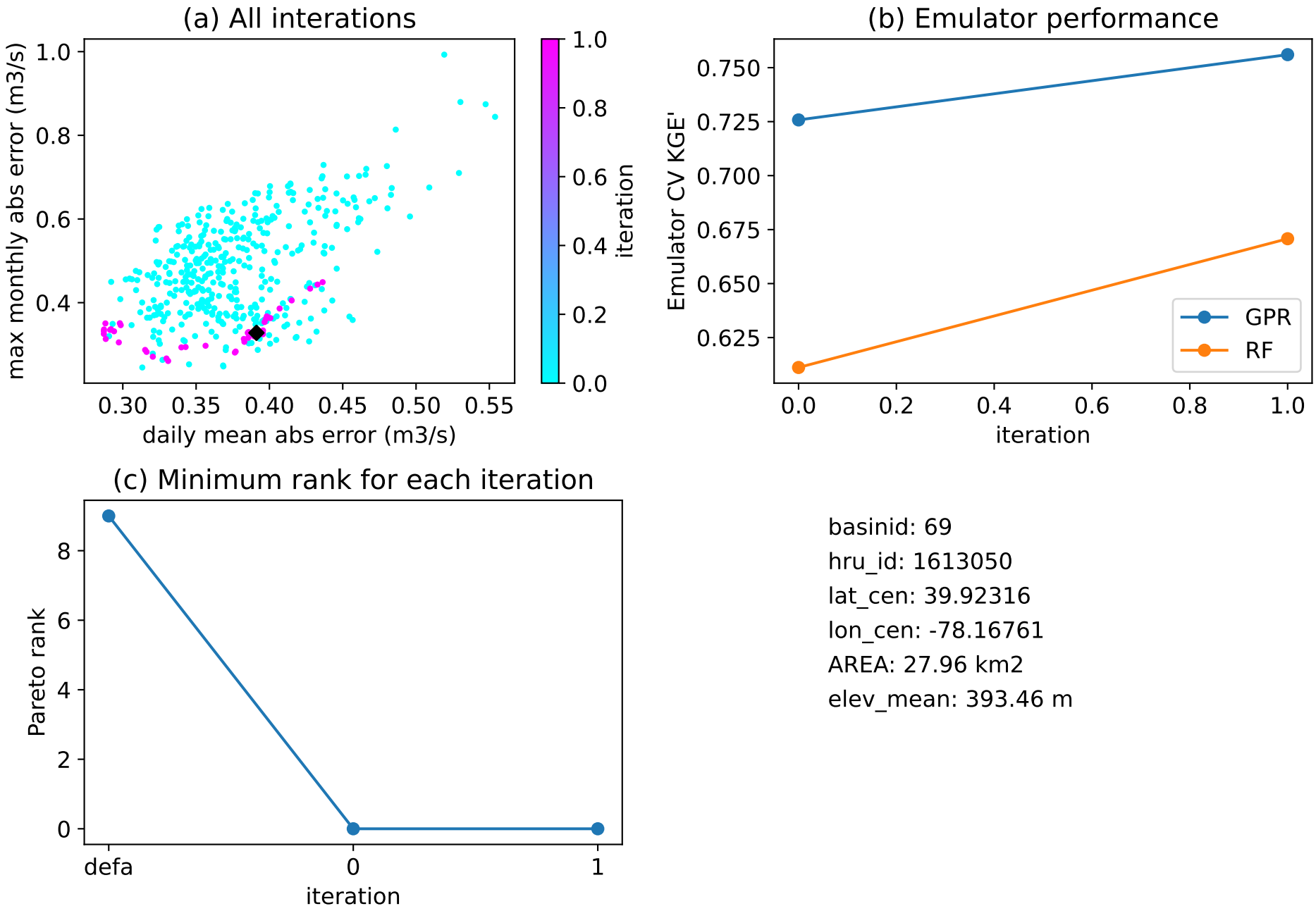


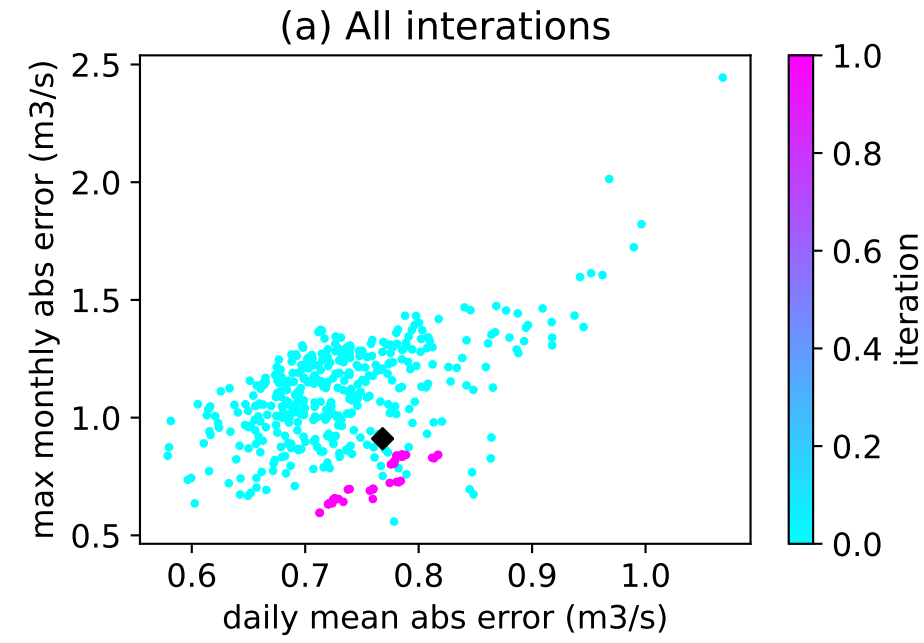


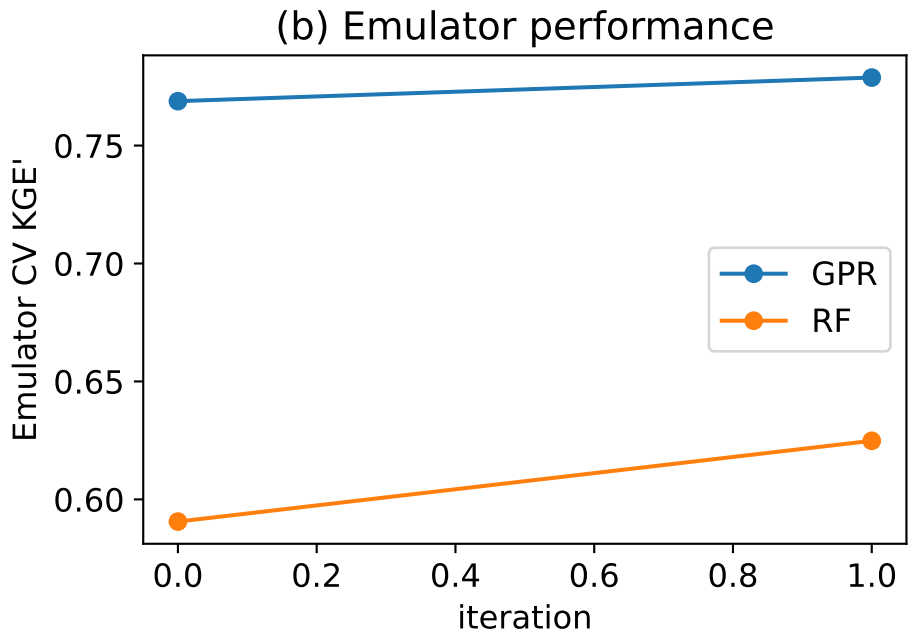
basinid: 66
hru_id: 1594950
lat_cen: 39.28331
lon_cen: -79.41151
AREA: 6.10 km2
elev_mean: 847.67 m

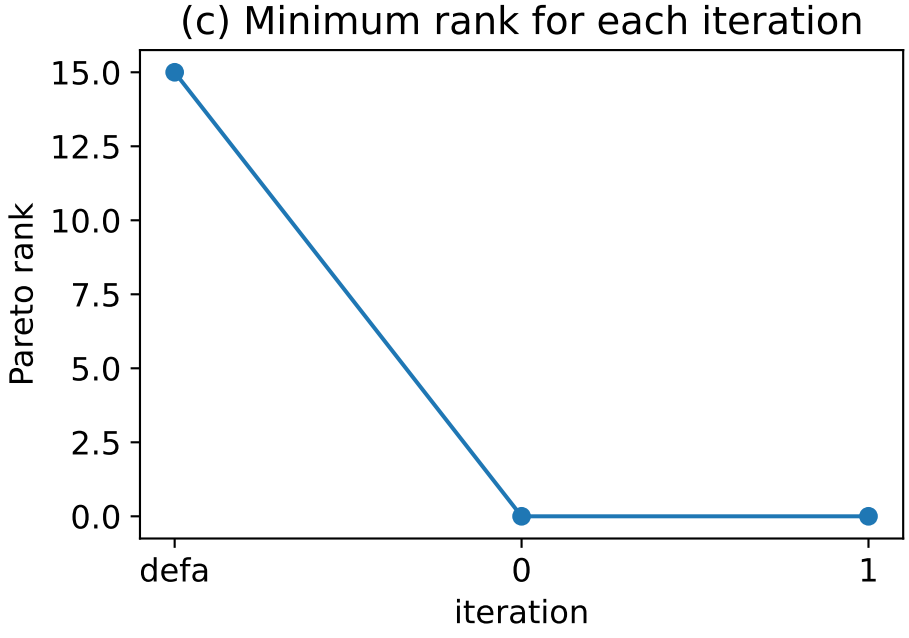

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 67
hru_id: 1596500
lat_cen: 39.63149
lon_cen: -79.05898
AREA: 127.51 km2
elev_mean: 749.45 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 68
hru_id: 1605500
lat_cen: 38.52689
lon_cen: -79.45611
AREA: 474.38 km2
elev_mean: 870.91 m

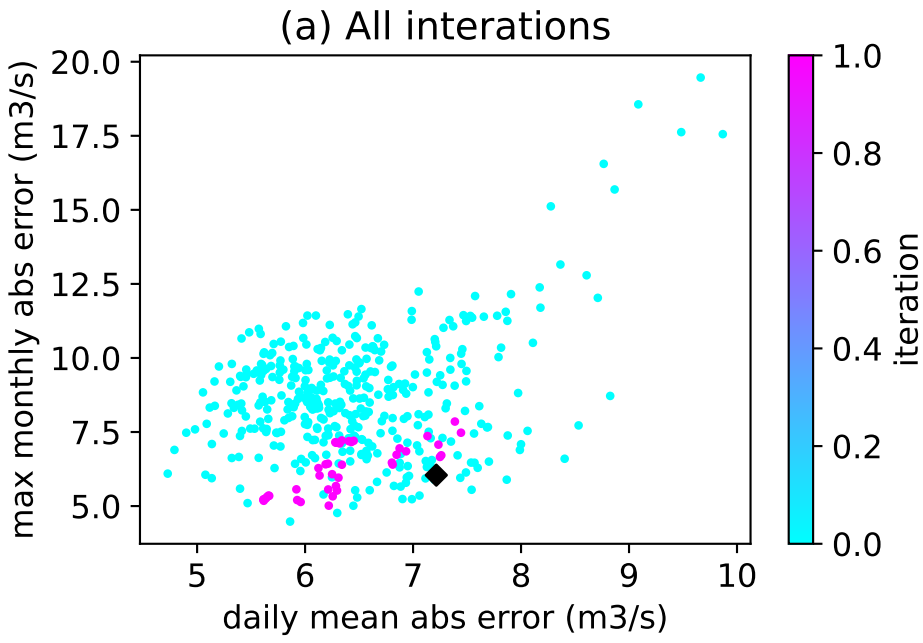

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 69
hru_id: 1613050
lat_cen: 39.92316
lon_cen: -78.16761
AREA: 27.96 km2
elev_mean: 393.46 m

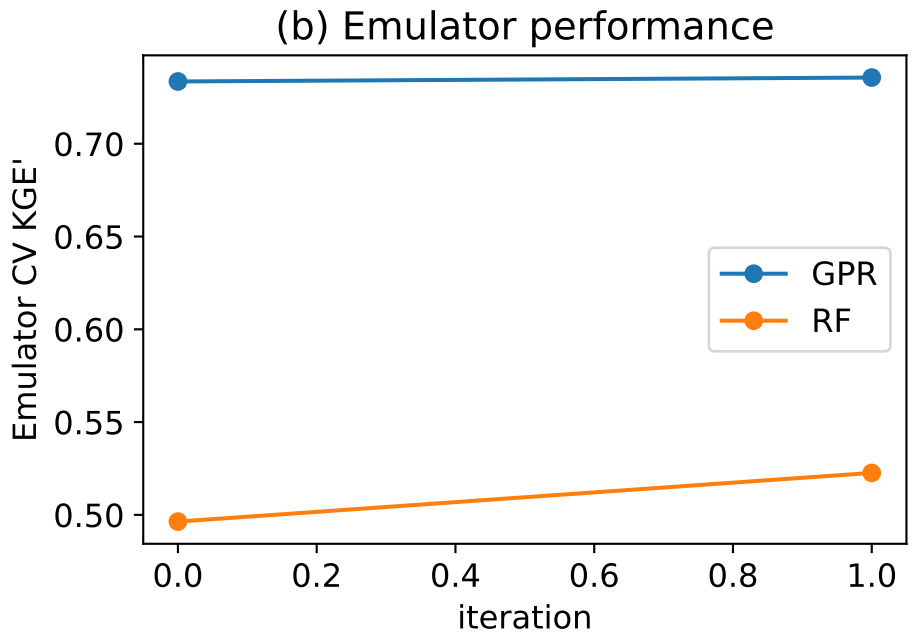


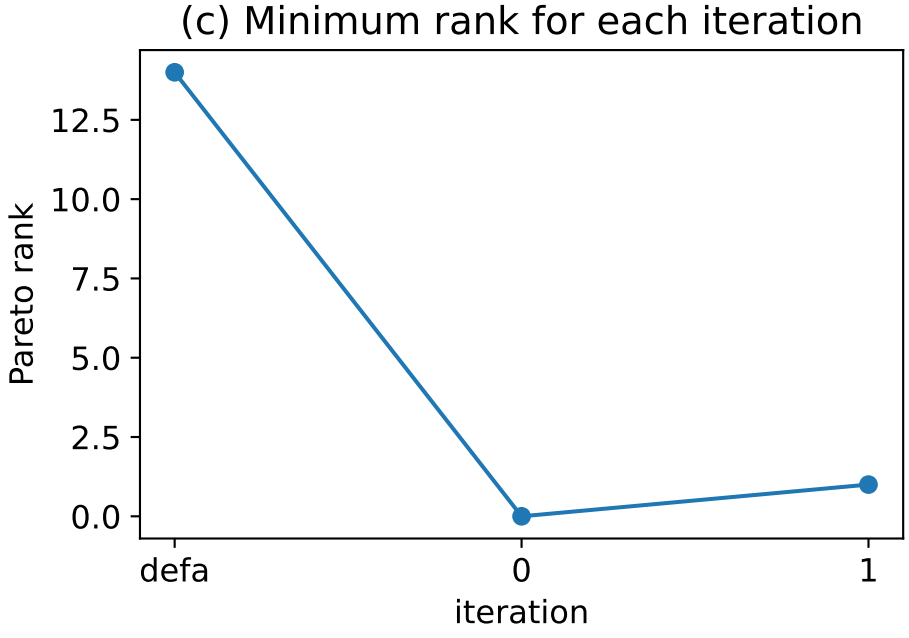




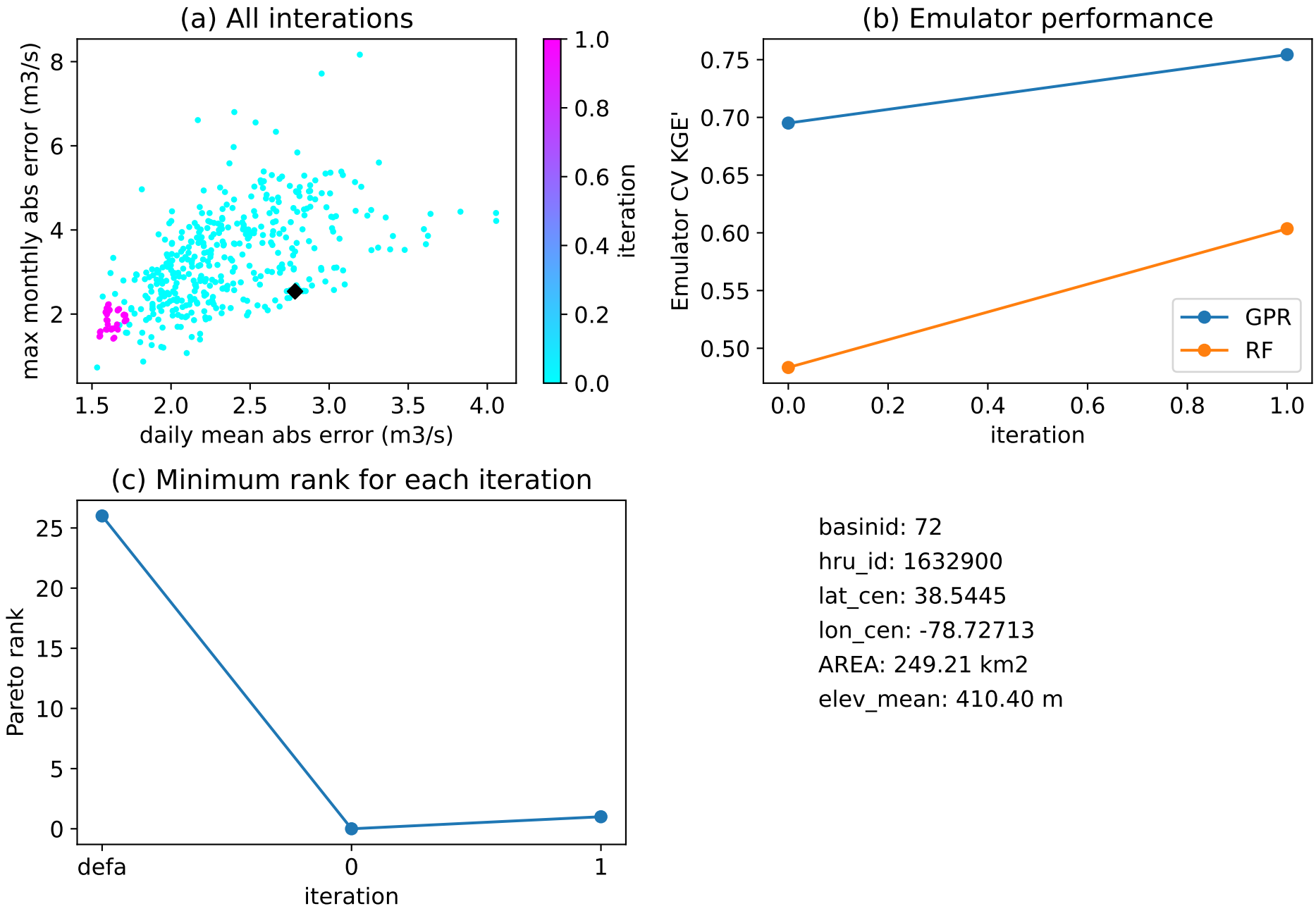
basinid: 70
hru_id: 1620500
lat_cen: 38.37592
lon_cen: -79.27321
AREA: 61.34 km2
elev_mean: 913.14 m

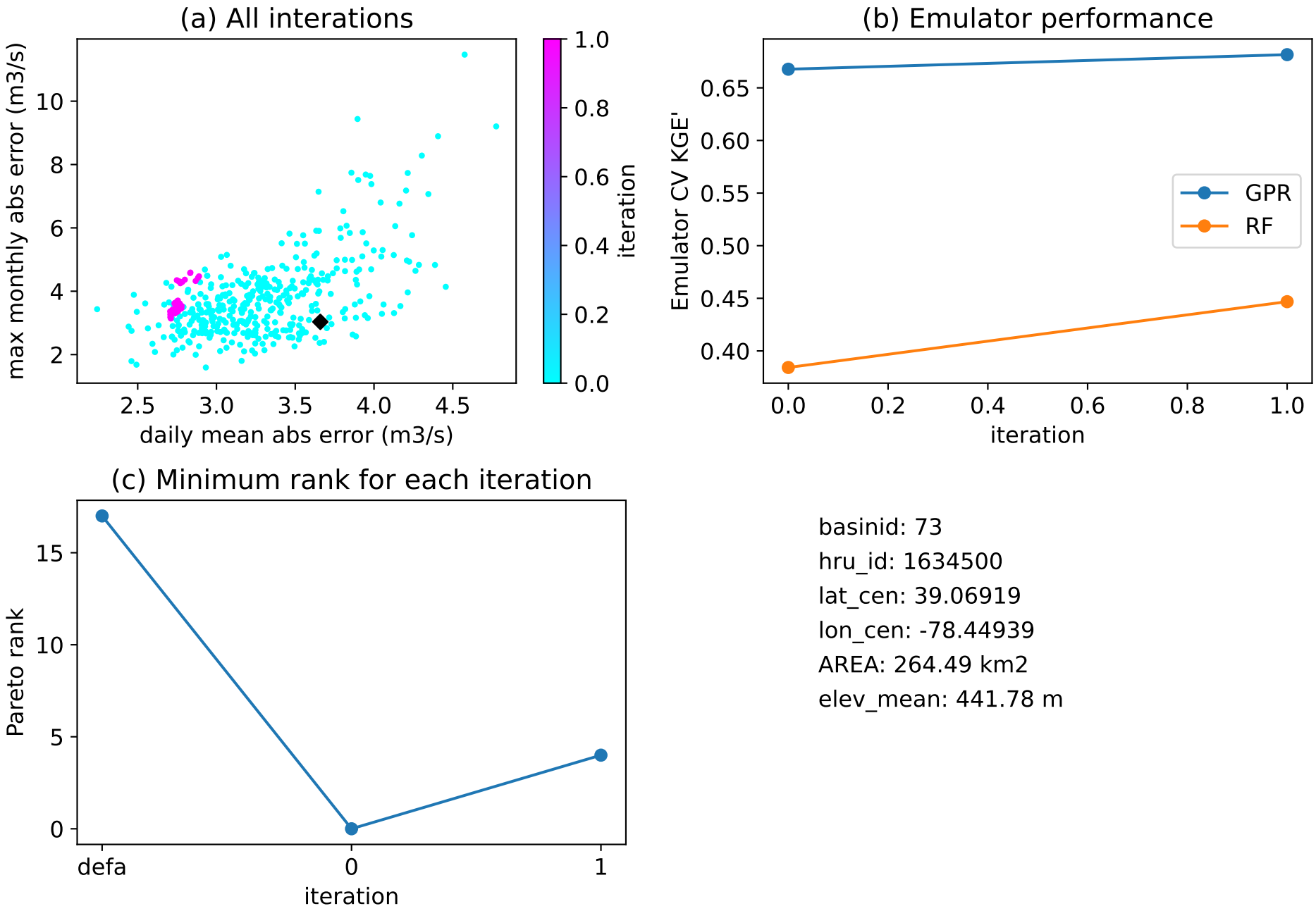


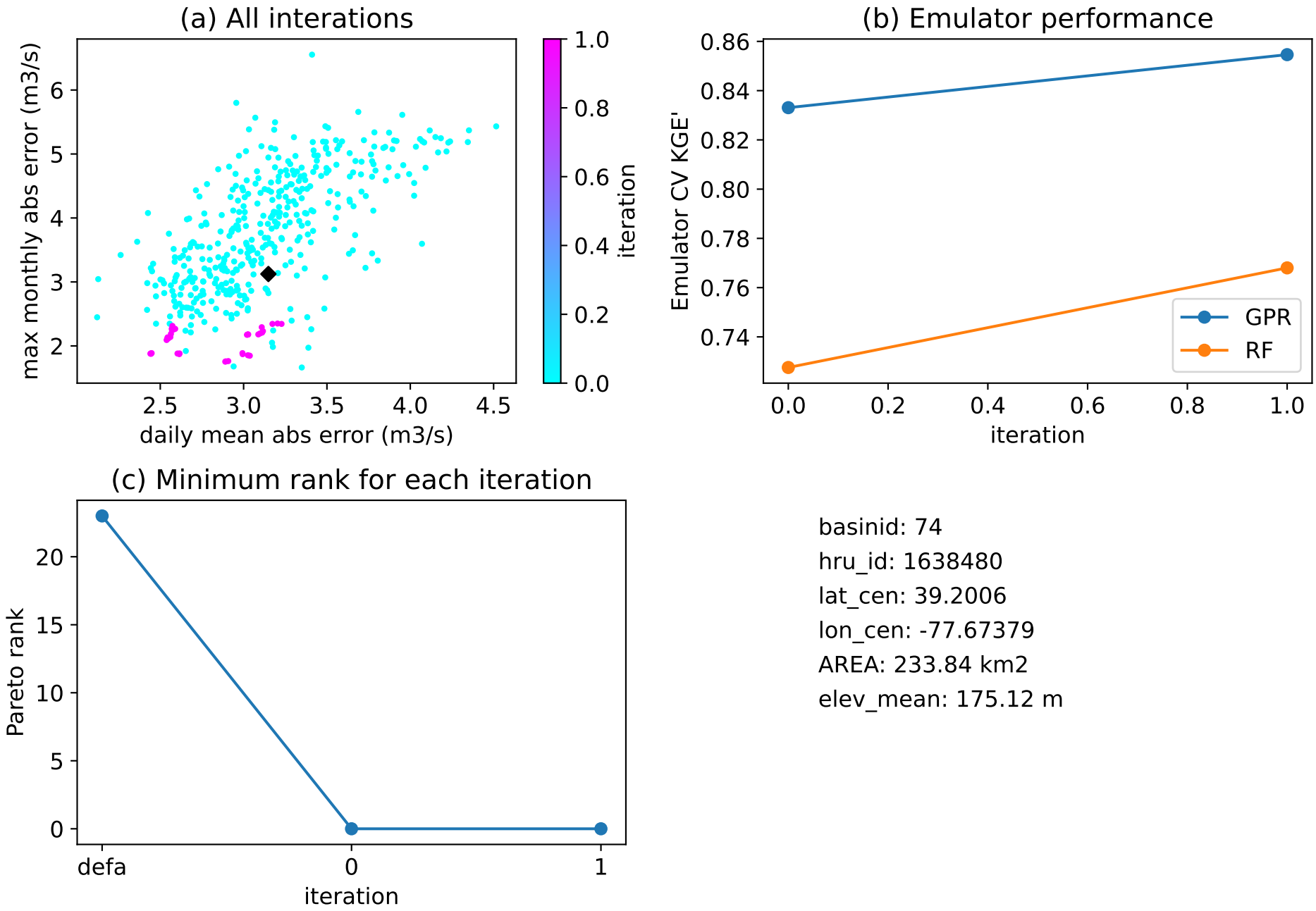


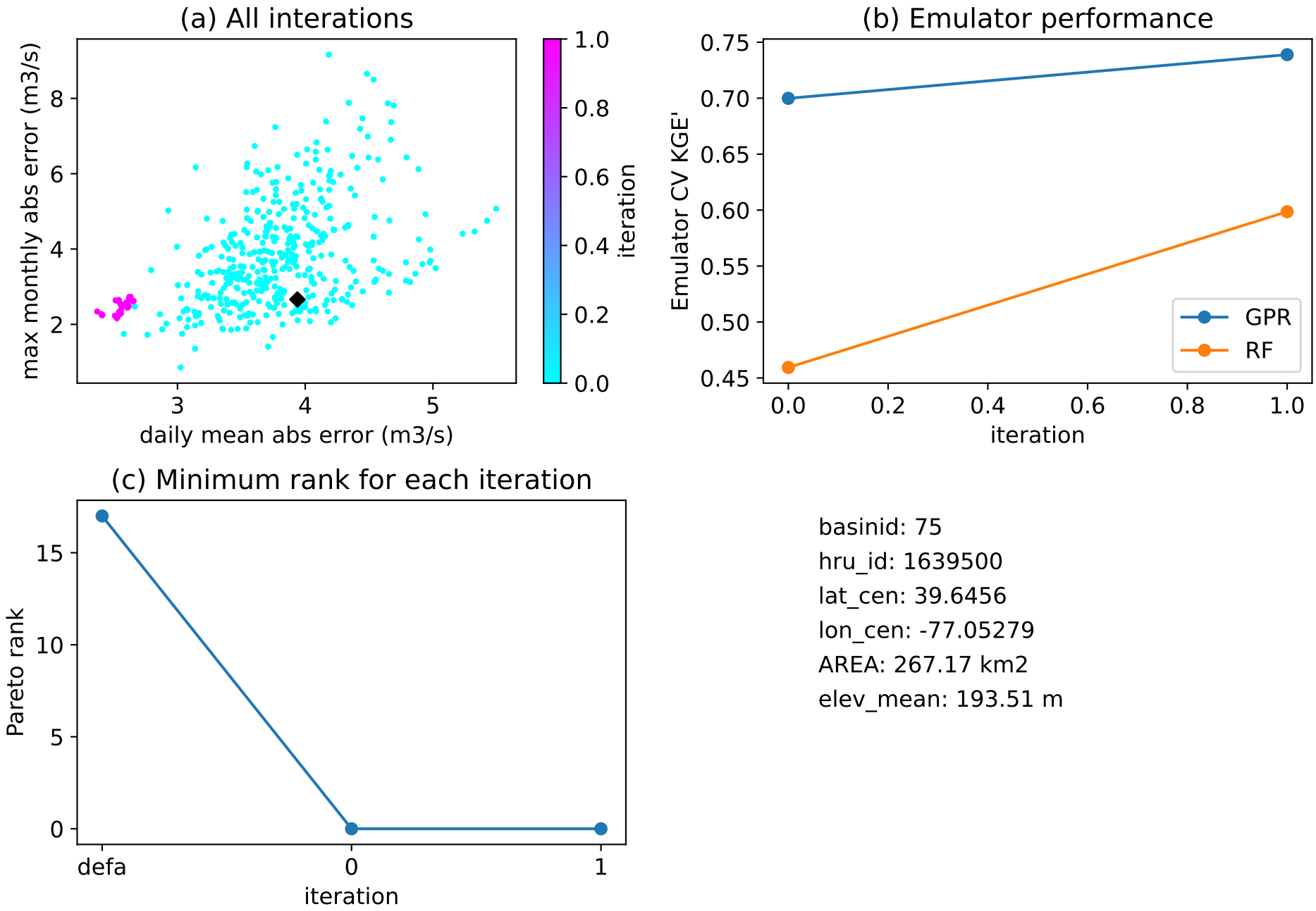


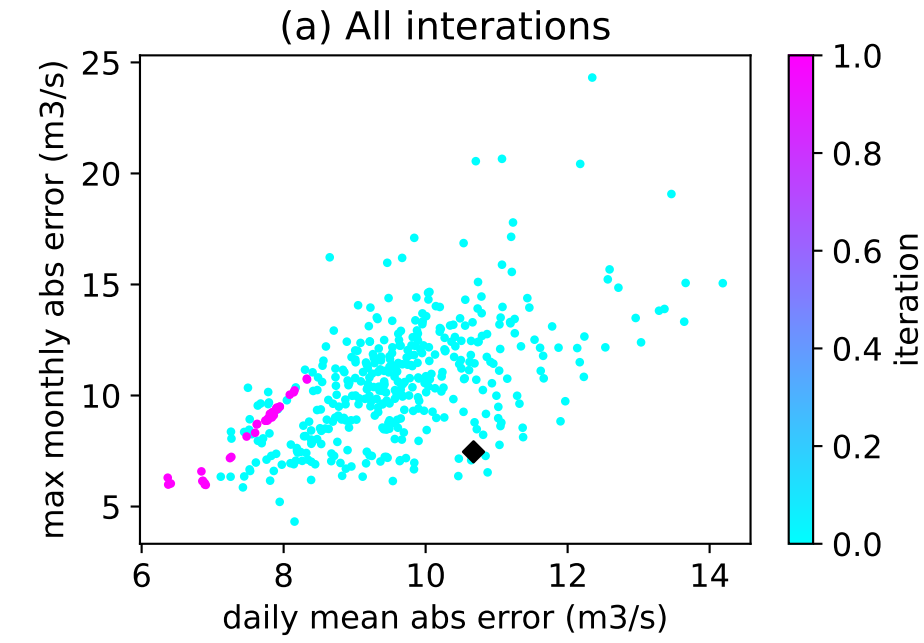
basinid: 71
hru_id: 1632000
lat_cen: 38.70073
lon_cen: -78.96078
AREA: 547.29 km2
elev_mean: 605.69 m

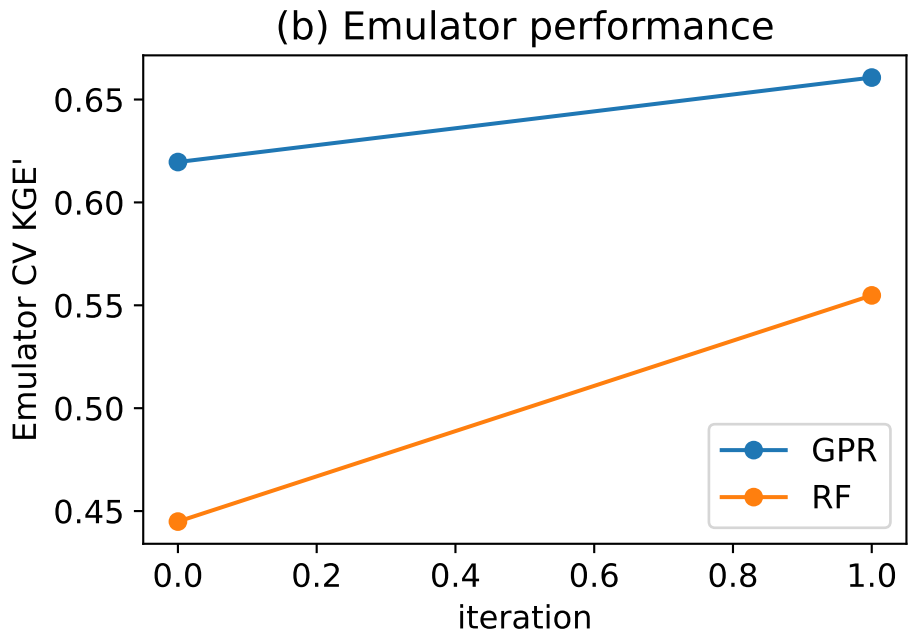

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 72
hru_id: 1632900
lat_cen: 38.5445
lon_cen: -78.72713
AREA: 249.21 km2
elev_mean: 410.40 m

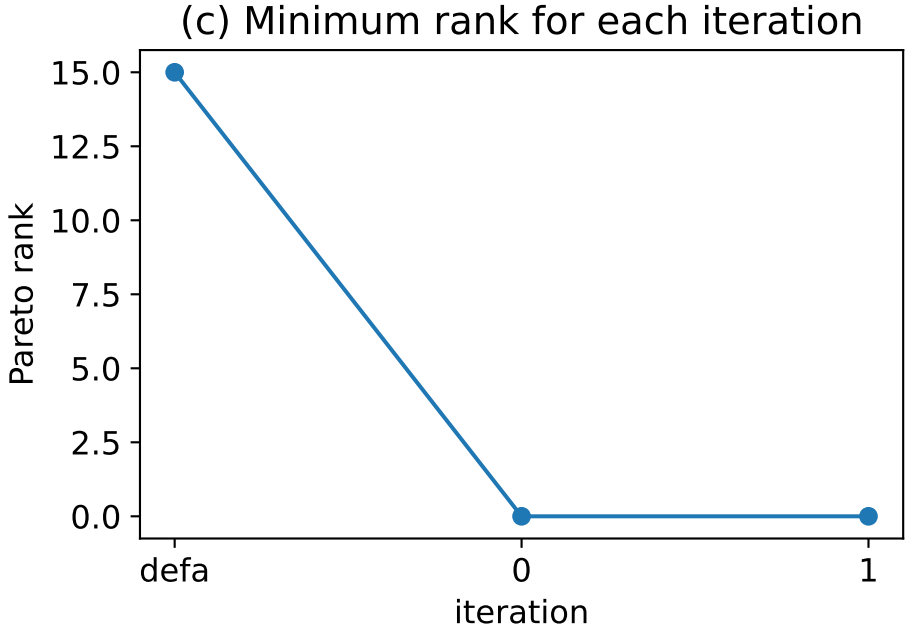

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 73
hru_id: 1634500
lat_cen: 39.06919
lon_cen: -78.44939
AREA: 264.49 km2
elev_mean: 441.78 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 74
hru_id: 1638480
lat_cen: 39.2006
lon_cen: -77.67379
AREA: 233.84 km2
elev_mean: 175.12 m

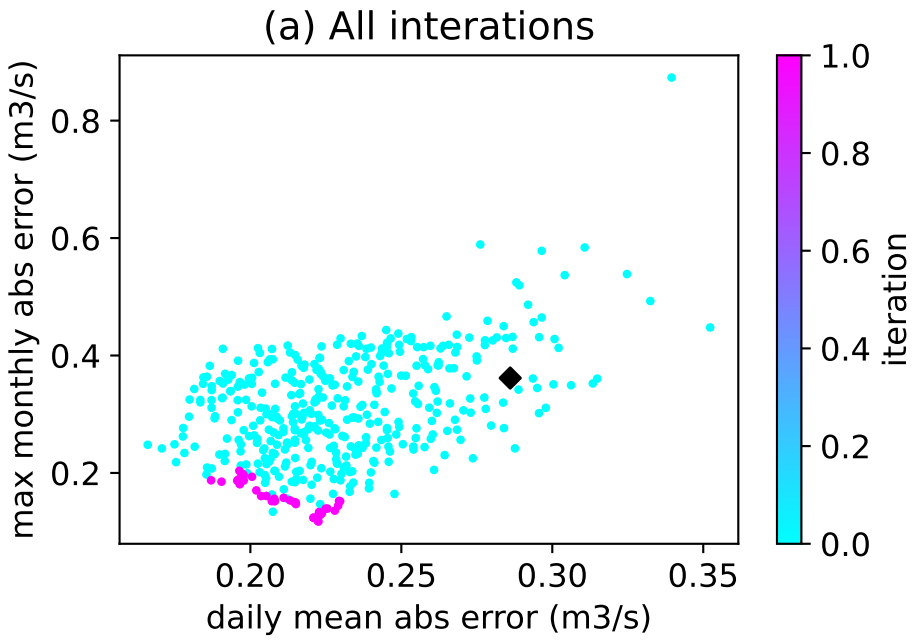

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 75
hru_id: 1639500
lat_cen: 39.6456
lon_cen: -77.05279
AREA: 267.17 km2
elev_mean: 193.51 m

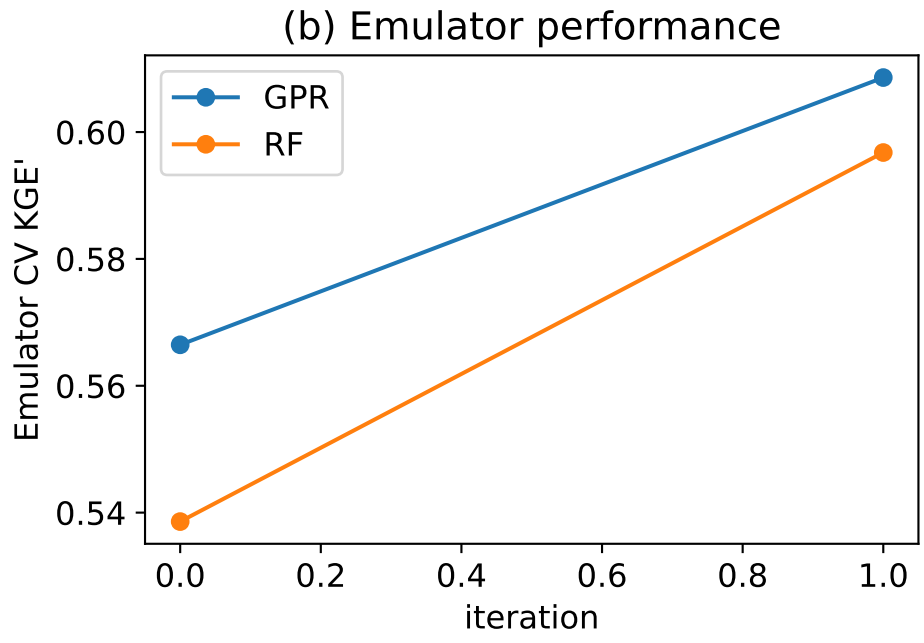


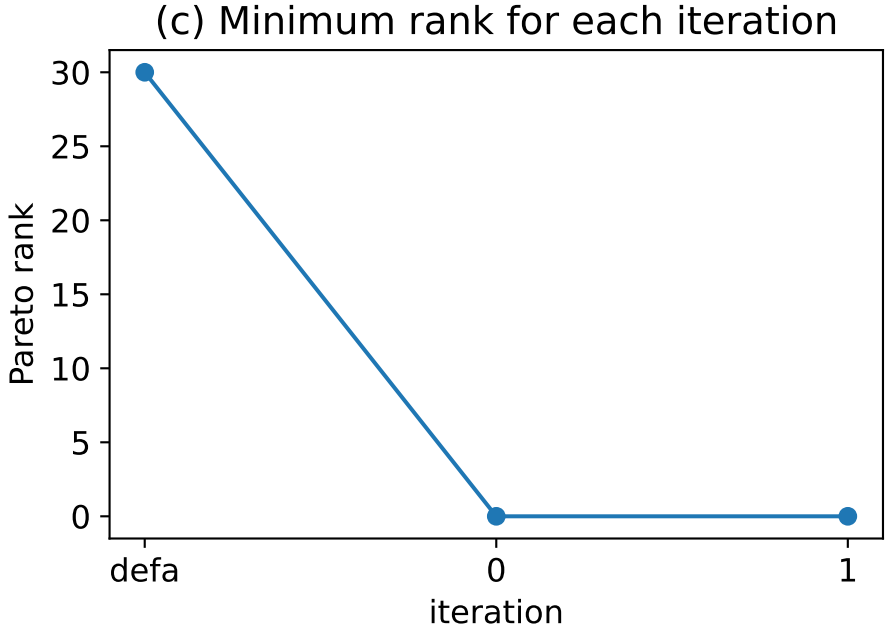




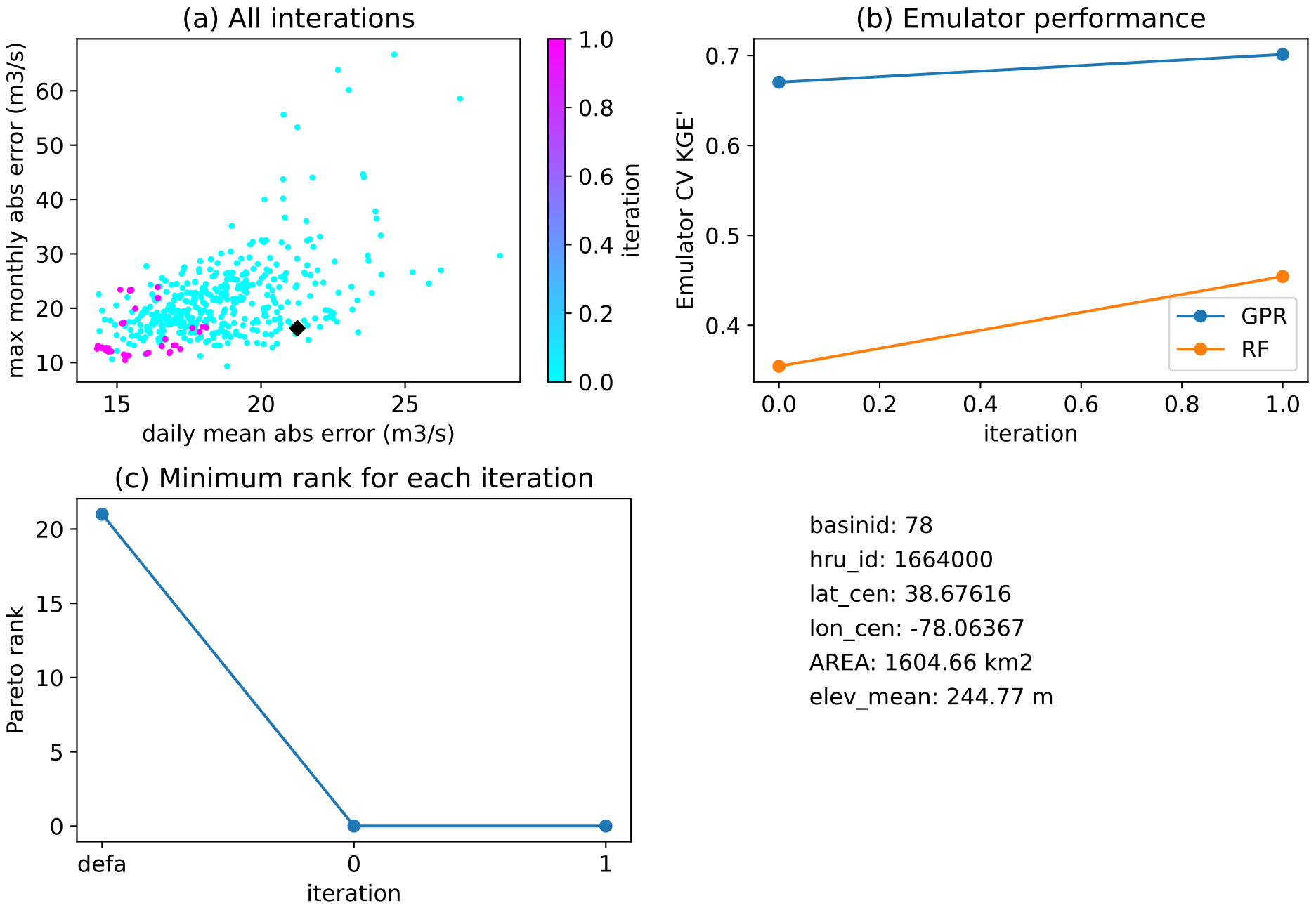
basinid: 76
hru_id: 1644000
lat_cen: 38.99276
lon_cen: -77.80391
AREA: 859.60 km2
elev_mean: 187.09 m

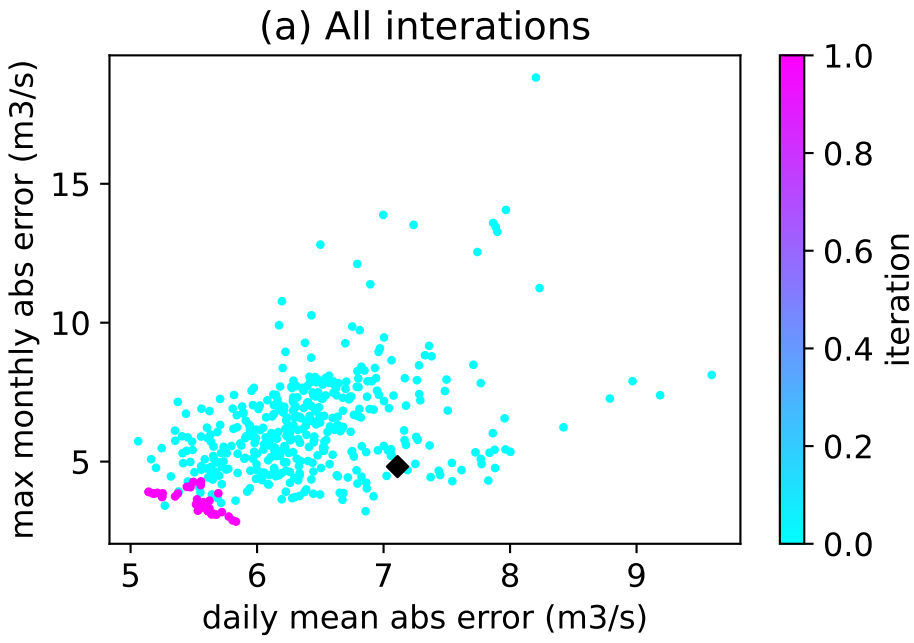


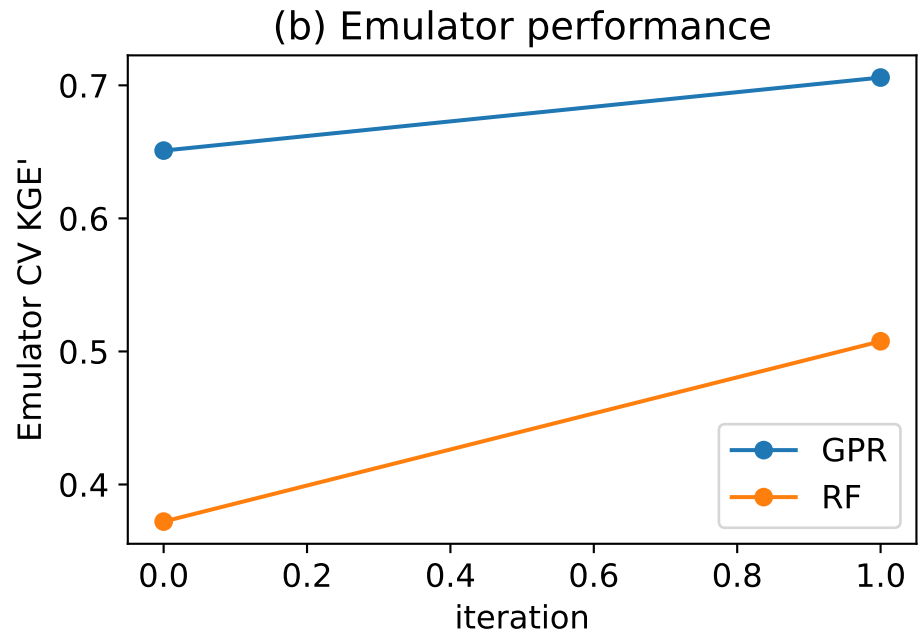


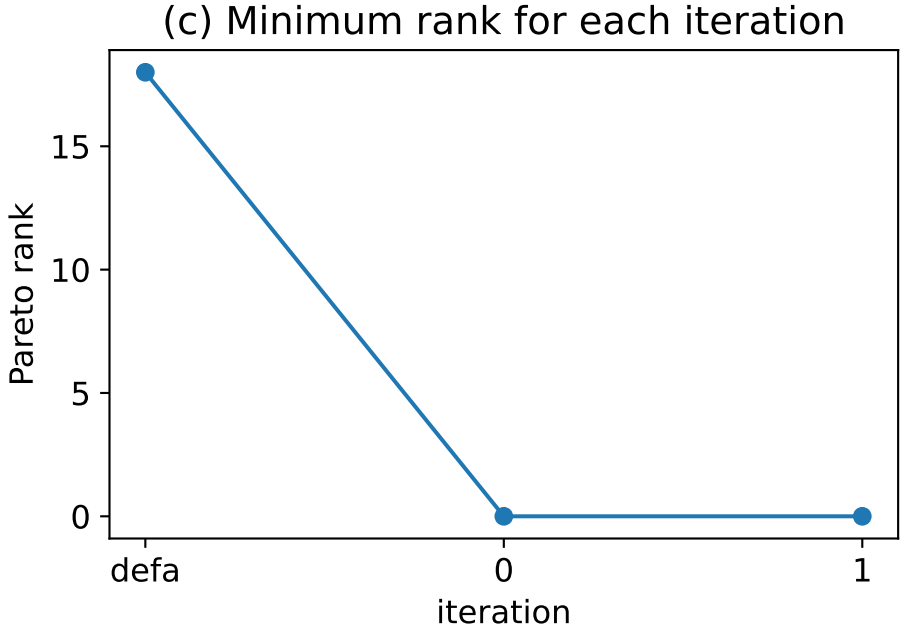


basinid: 77
hru_id: 1658500
lat_cen: 38.6079
lon_cen: -77.44194
AREA: 23.69 km2
elev_mean: 102.32 m

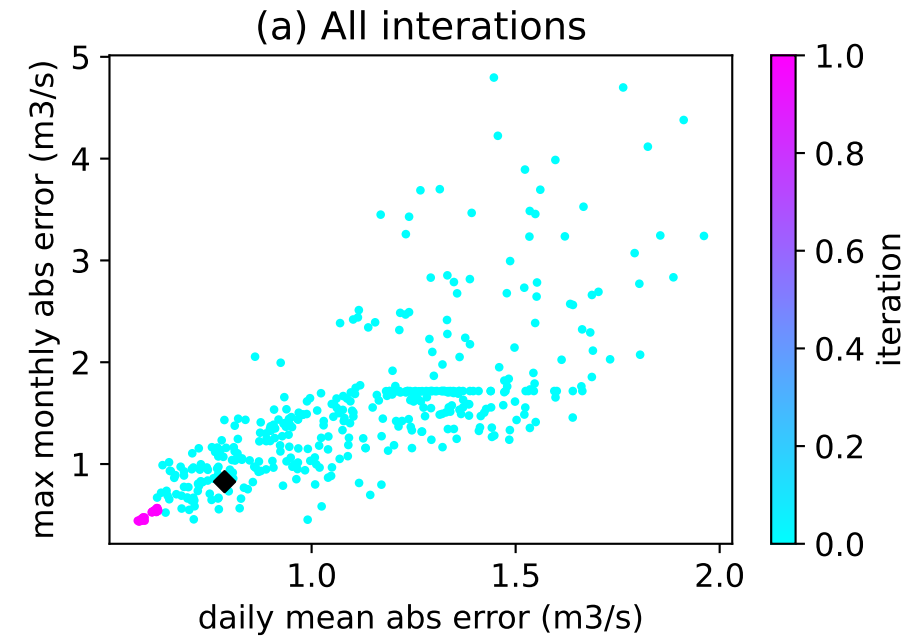

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 78
hru_id: 1664000
lat_cen: 38.67616
lon_cen: -78.06367
AREA: 1604.66 km2
elev_mean: 244.77 m

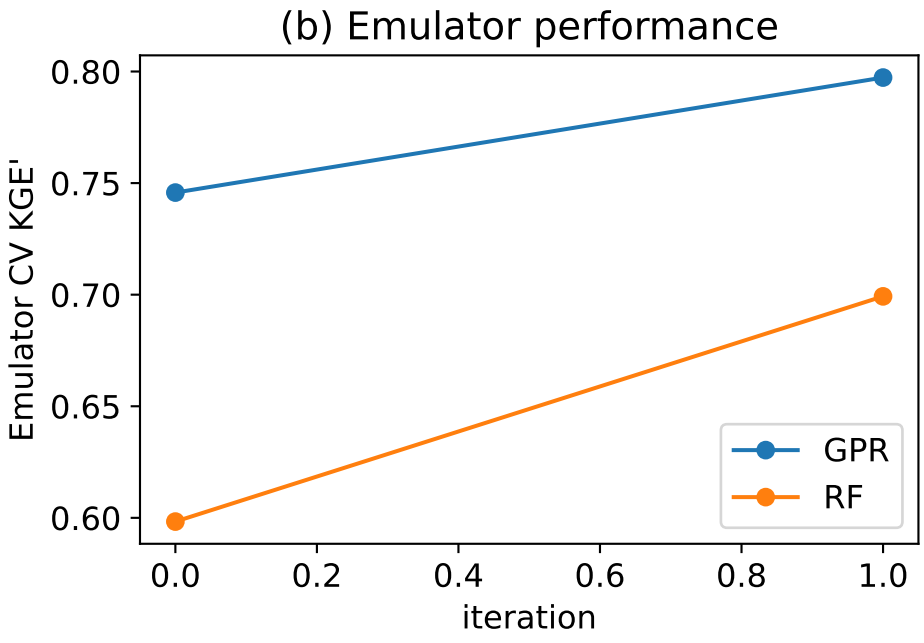


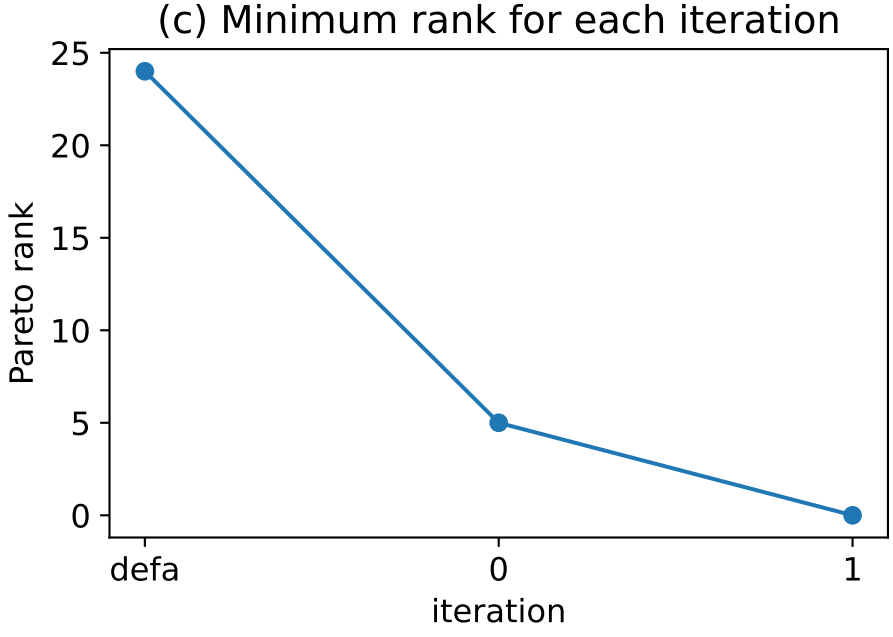




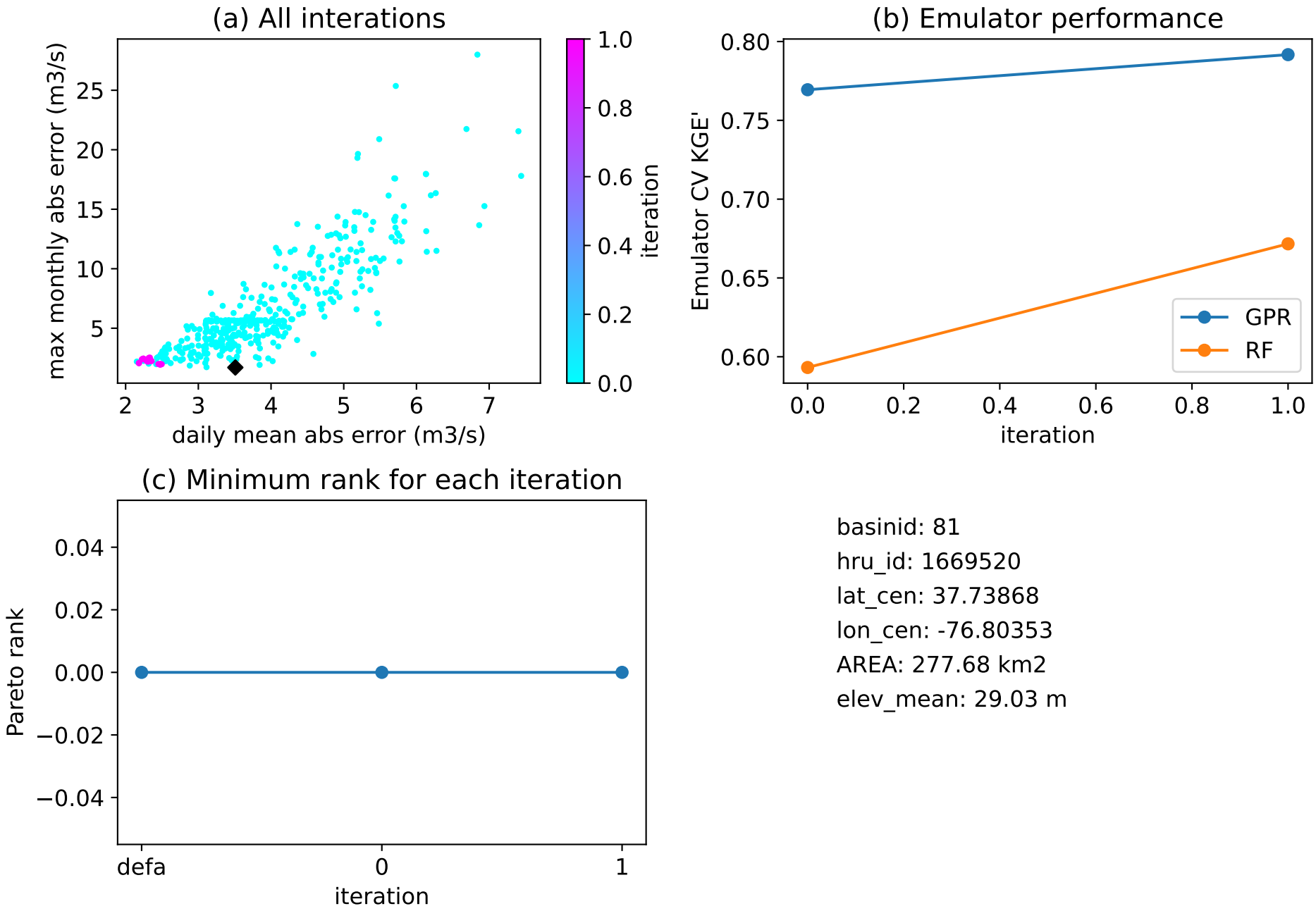
basinid: 79
hru_id: 1666500
lat_cen: 38.43387
lon_cen: -78.24173
AREA: 466.18 km2
elev_mean: 266.17 m

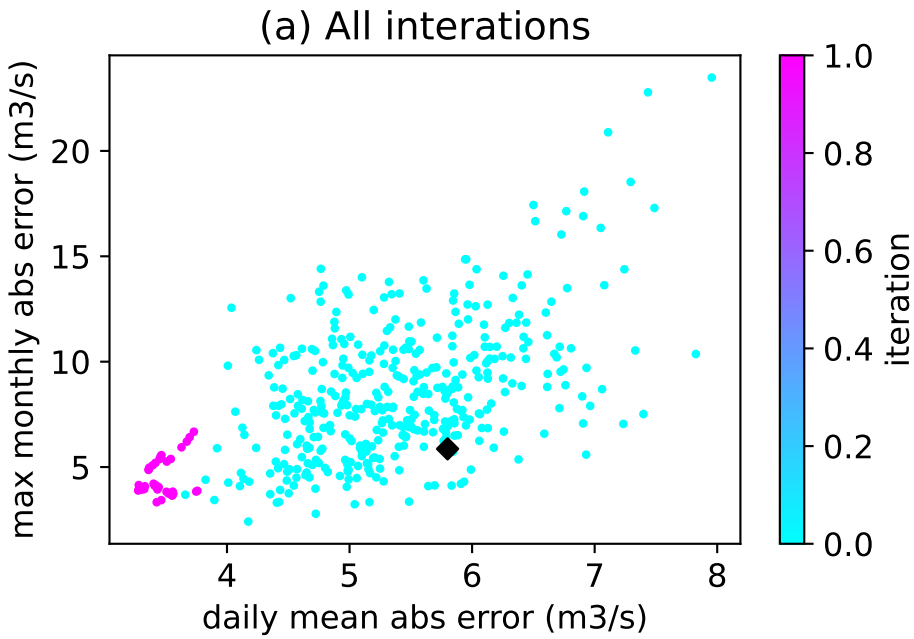


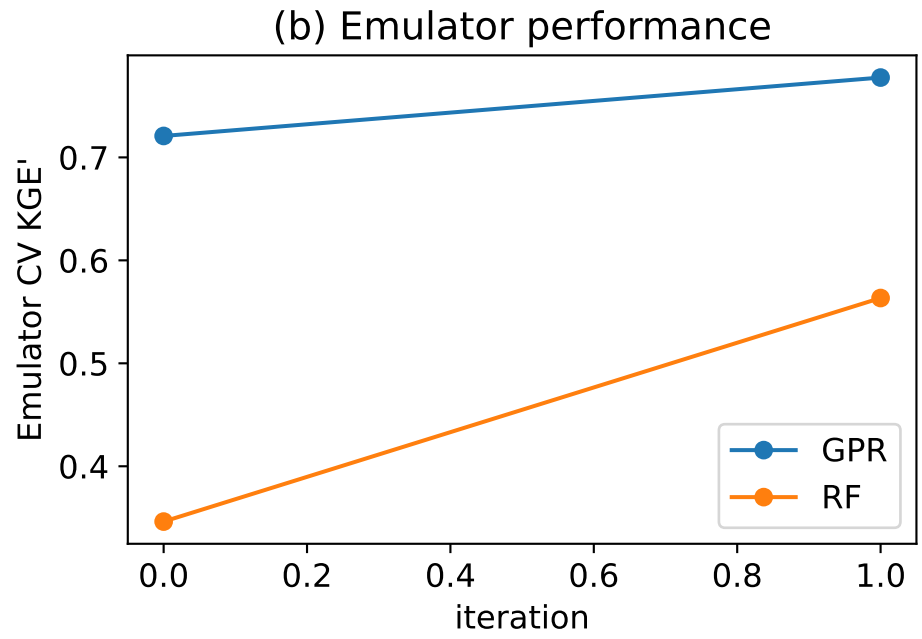


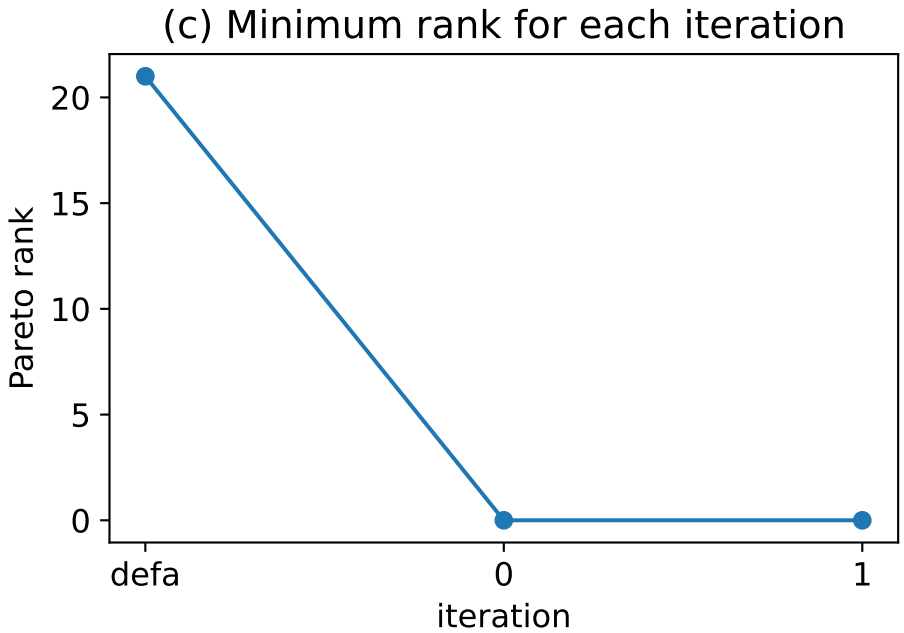


basinid: 80
hru_id: 1669000
lat_cen: 37.86945
lon_cen: -76.96508
AREA: 75.31 km2
elev_mean: 30.84 m

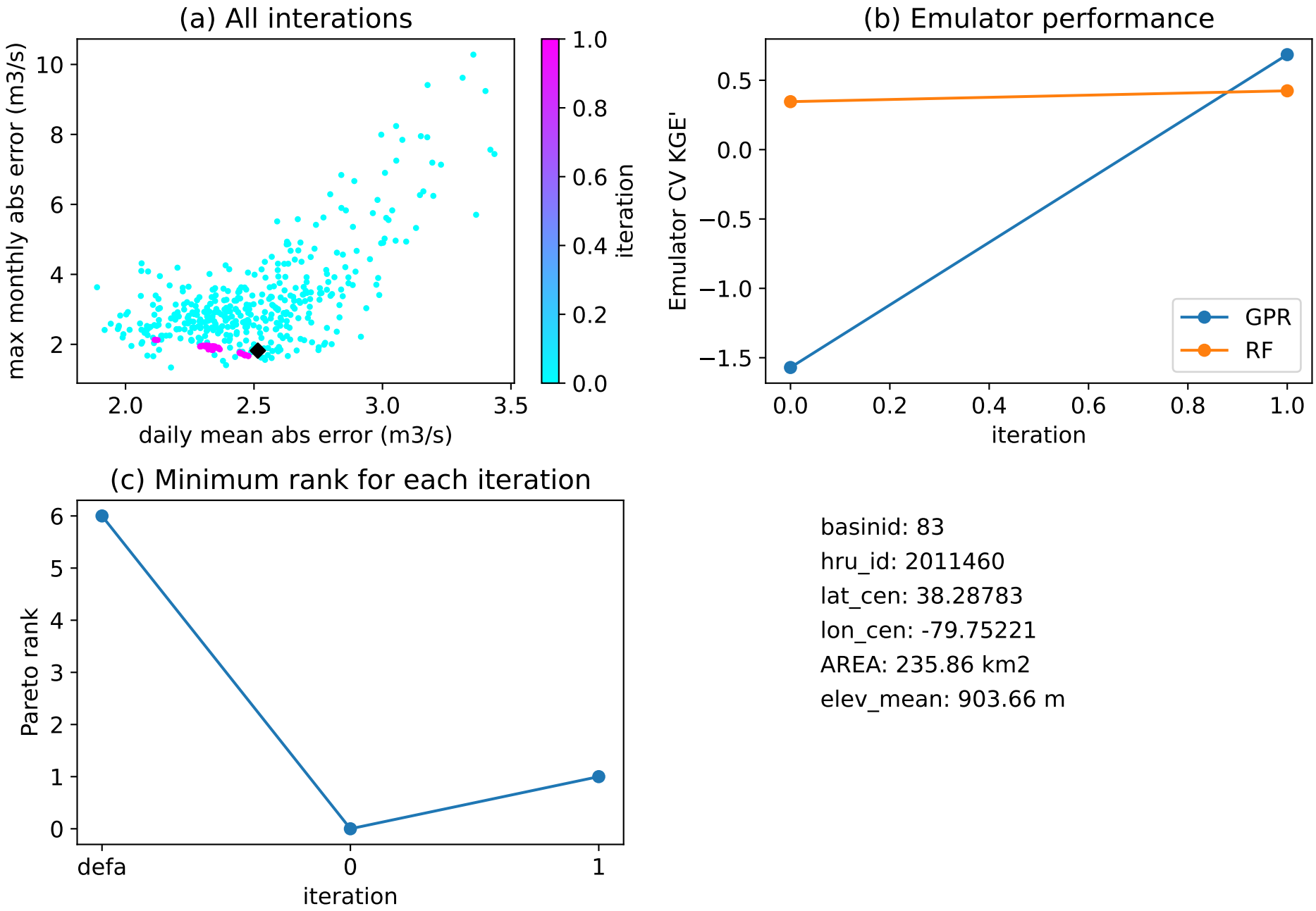

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 81
hru_id: 1669520
lat_cen: 37.73868
lon_cen: -76.80353
AREA: 277.68 km2
elev_mean: 29.03 m

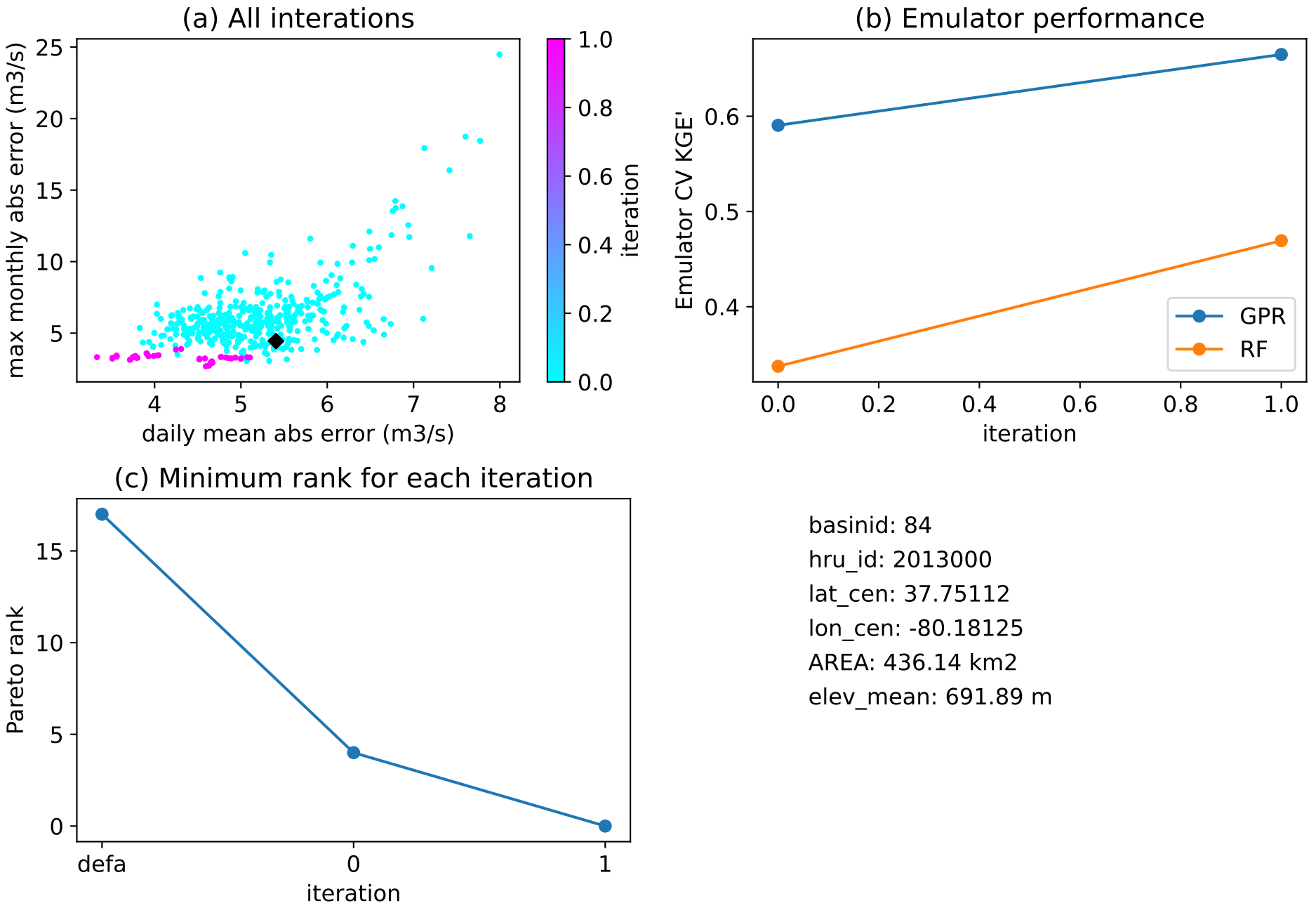


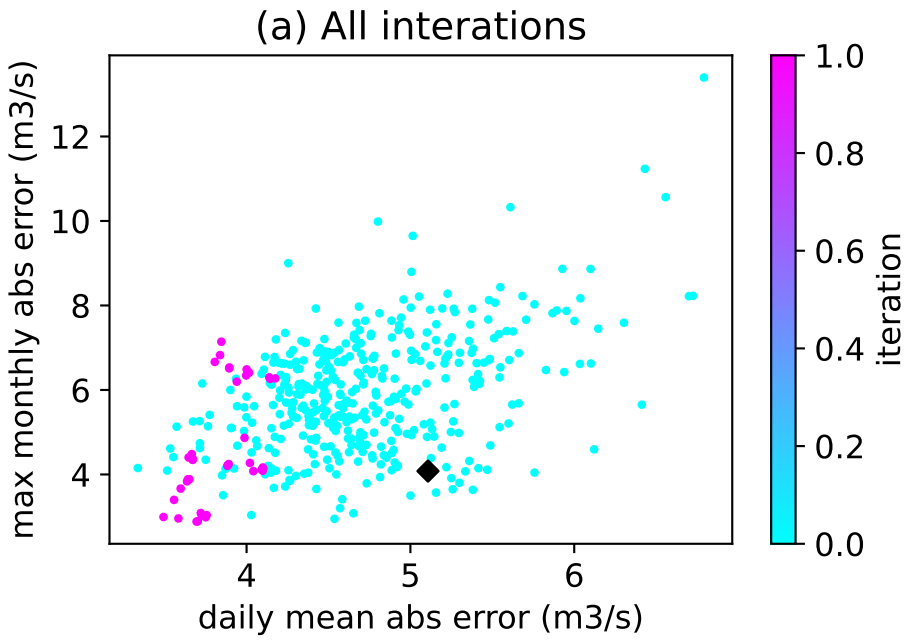


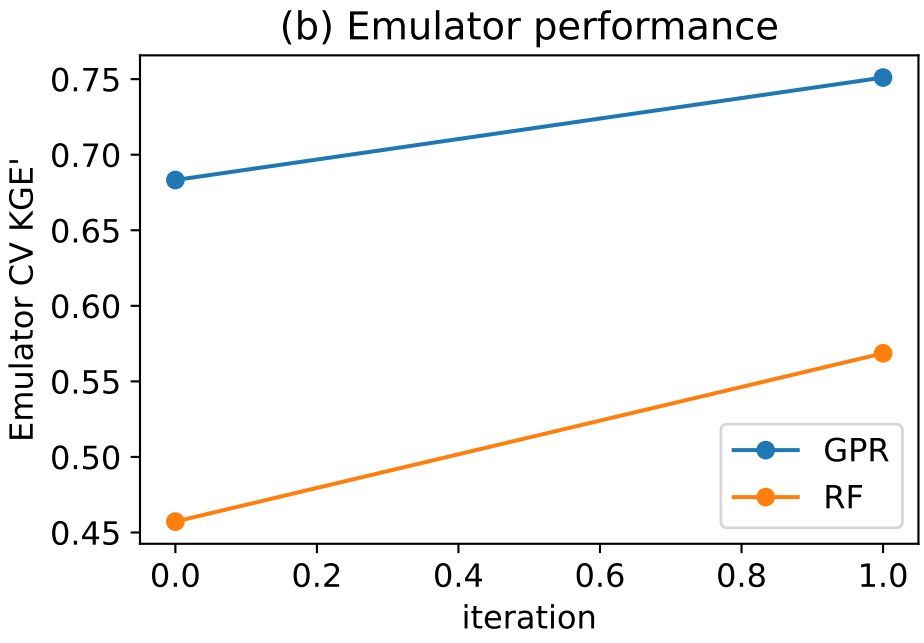


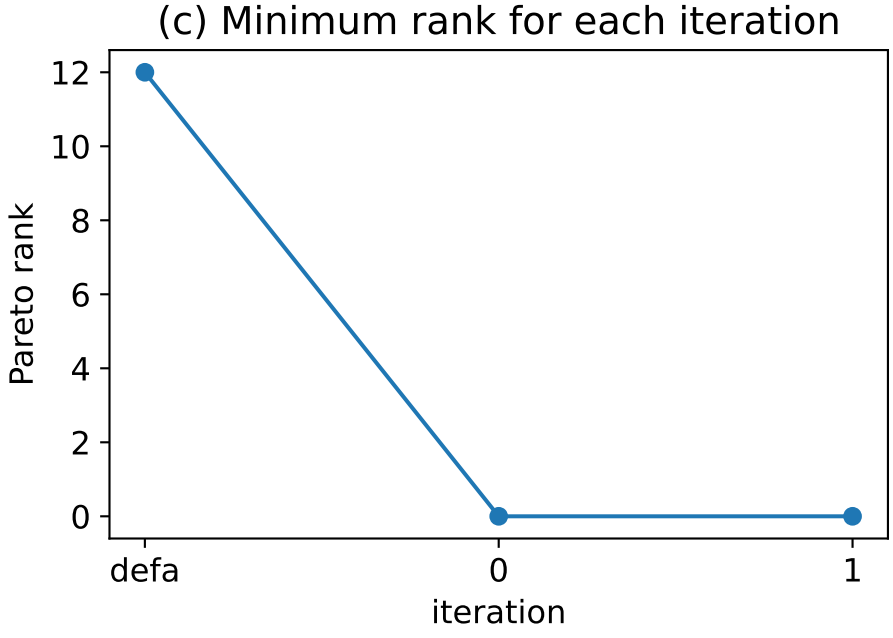
basinid: 82
hru_id: 2011400
lat_cen: 38.20913
lon_cen: -79.7187
AREA: 409.89 km2
elev_mean: 816.08 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 83
hru_id: 2011460
lat_cen: 38.28783
lon_cen: -79.75221
AREA: 235.86 km2
elev_mean: 903.66 m

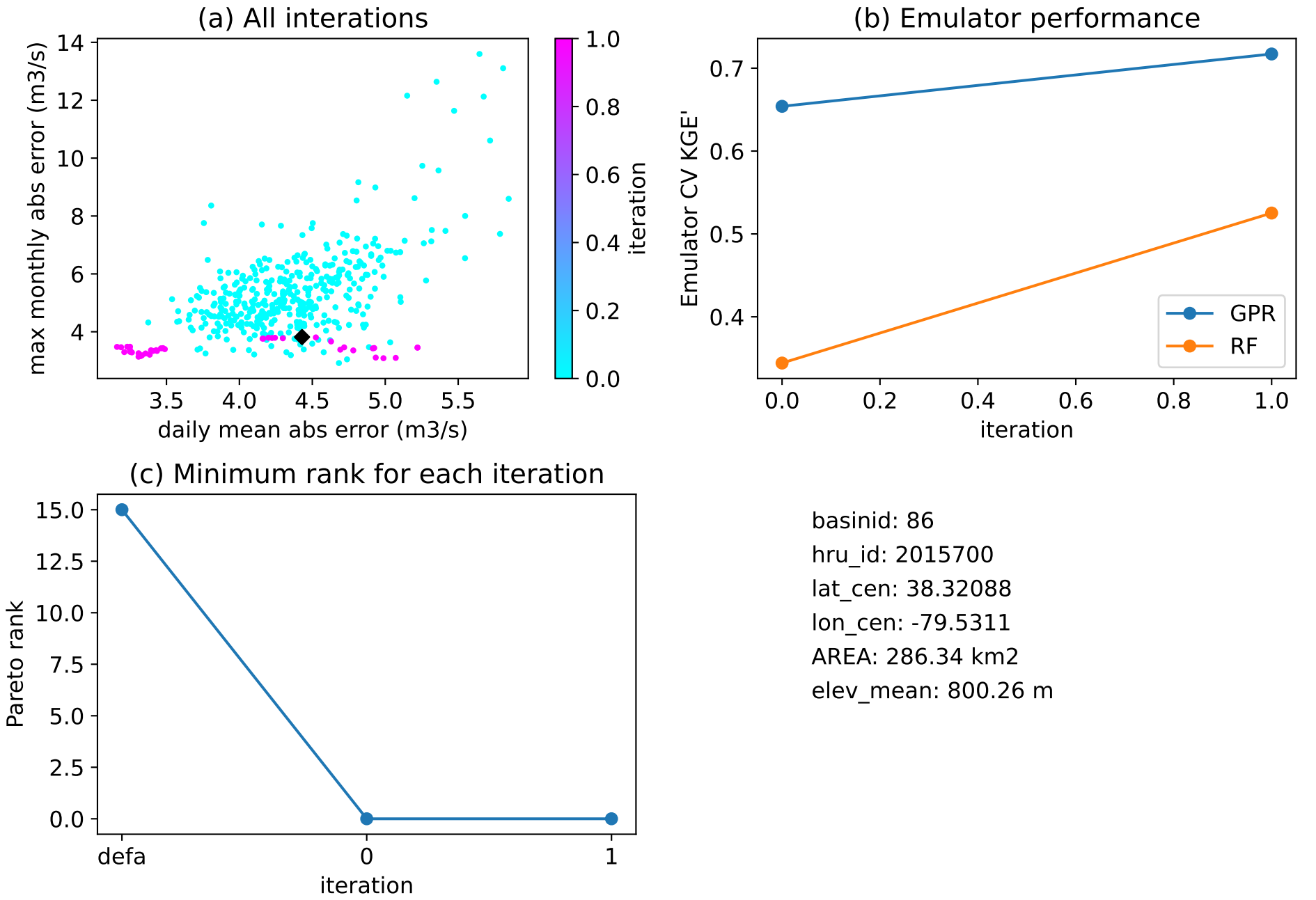

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 84
hru_id: 2013000
lat_cen: 37.75112
lon_cen: -80.18125
AREA: 436.14 km2
elev_mean: 691.89 m

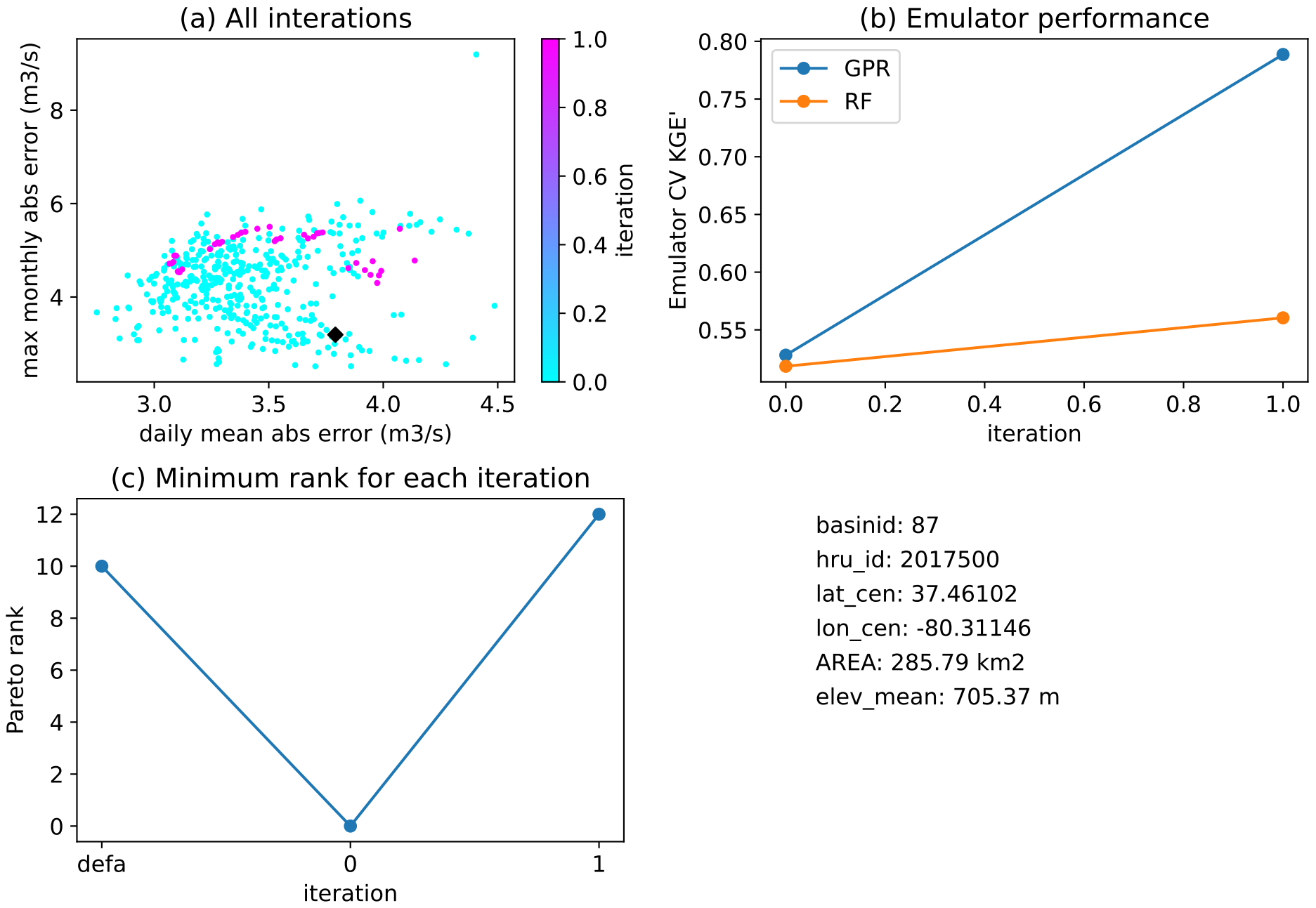


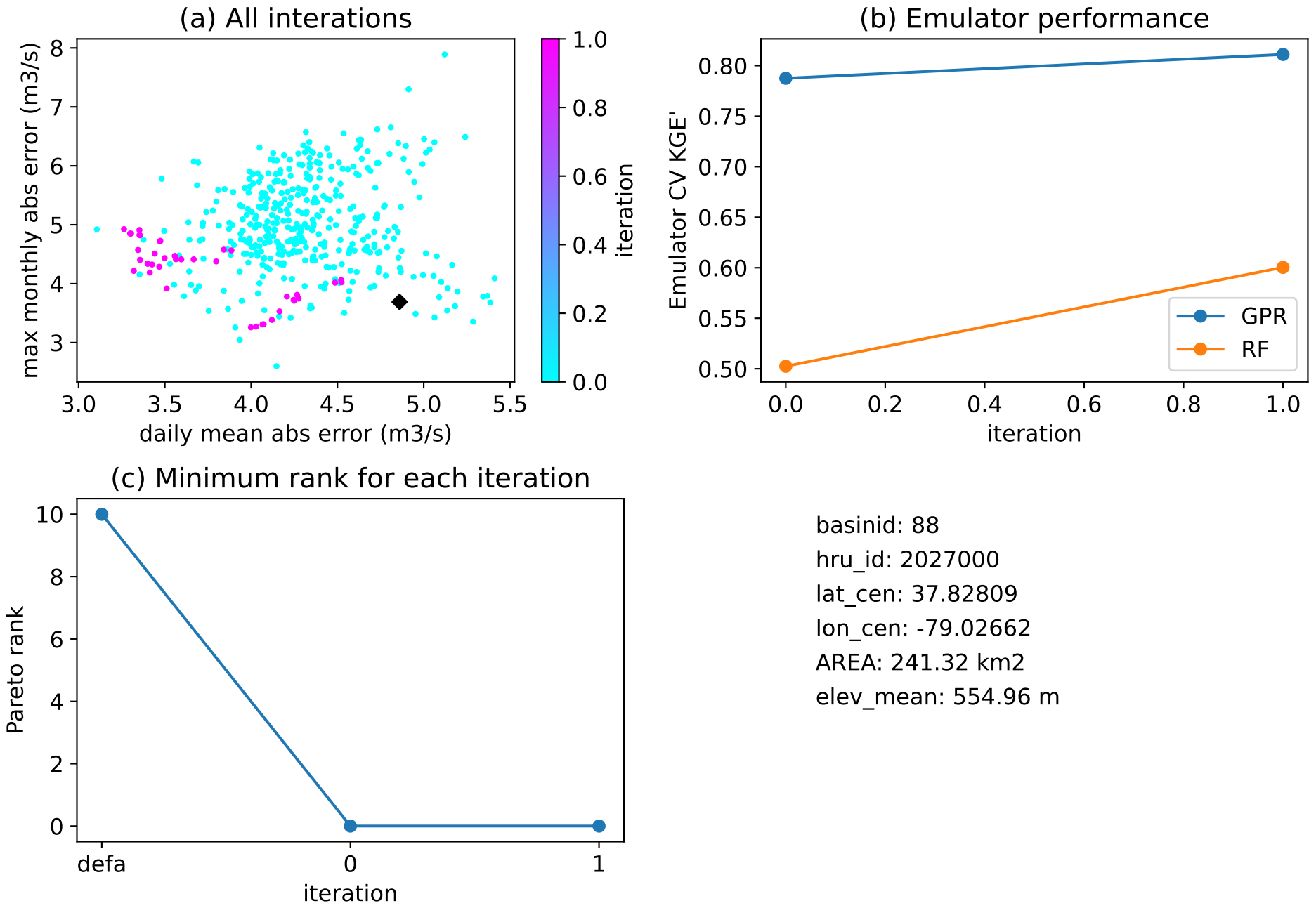


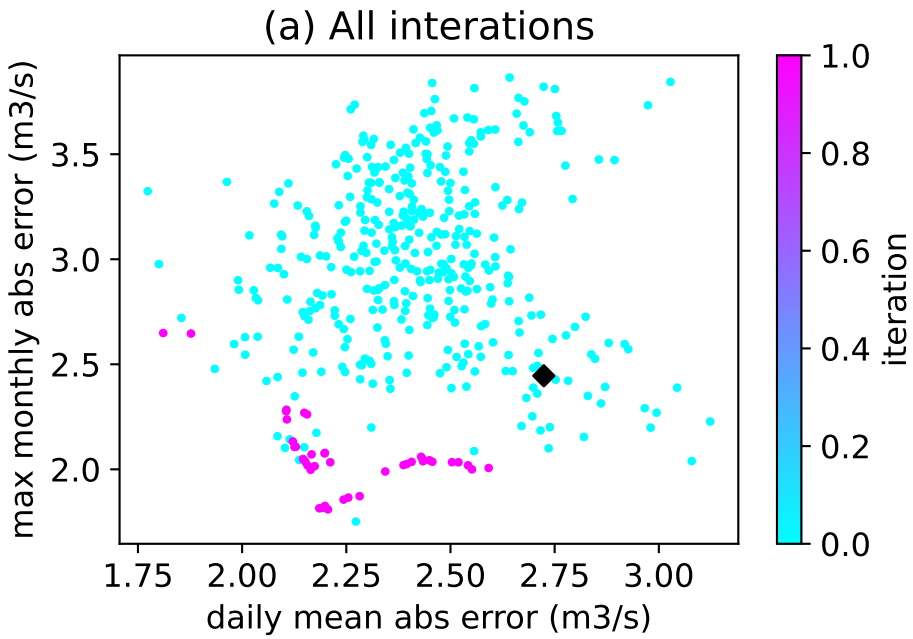


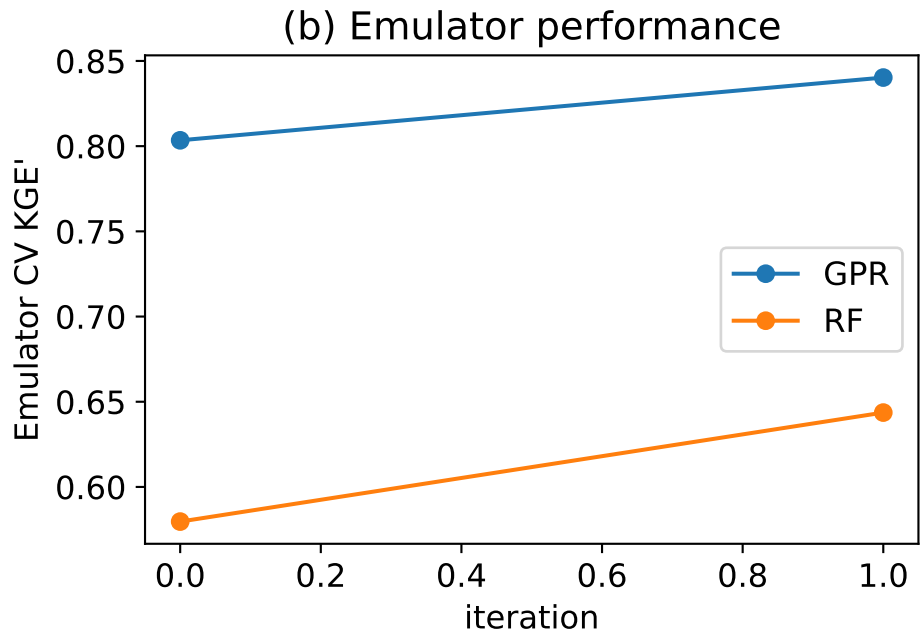
basinid: 85
hru_id: 2014000
lat_cen: 37.59871
lon_cen: -80.21602
AREA: 397.26 km2
elev_mean: 728.30 m

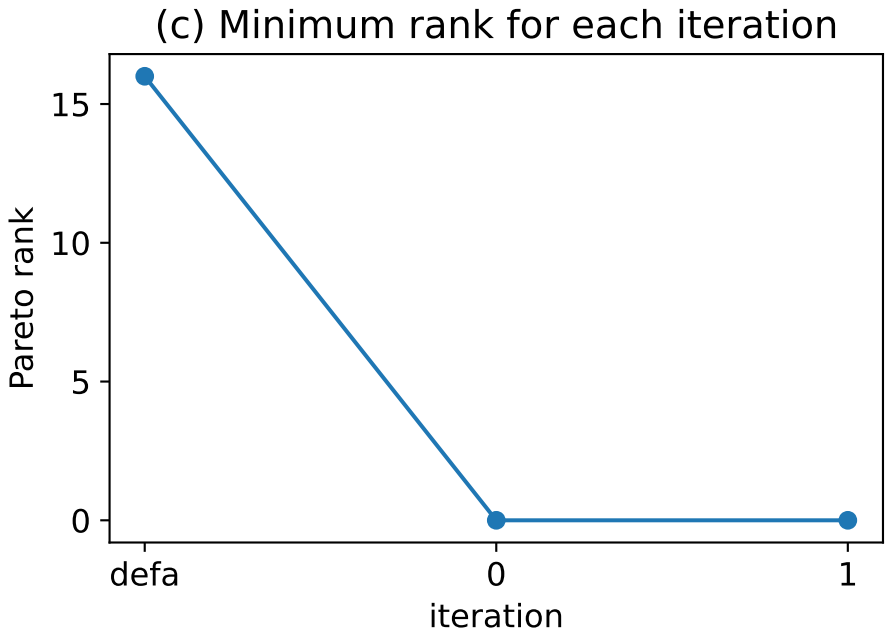

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 86
hru_id: 2015700
lat_cen: 38.32088
lon_cen: -79.5311
AREA: 286.34 km2
elev_mean: 800.26 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 87
hru_id: 2017500
lat_cen: 37.46102
lon_cen: -80.31146
AREA: 285.79 km2
elev_mean: 705.37 m

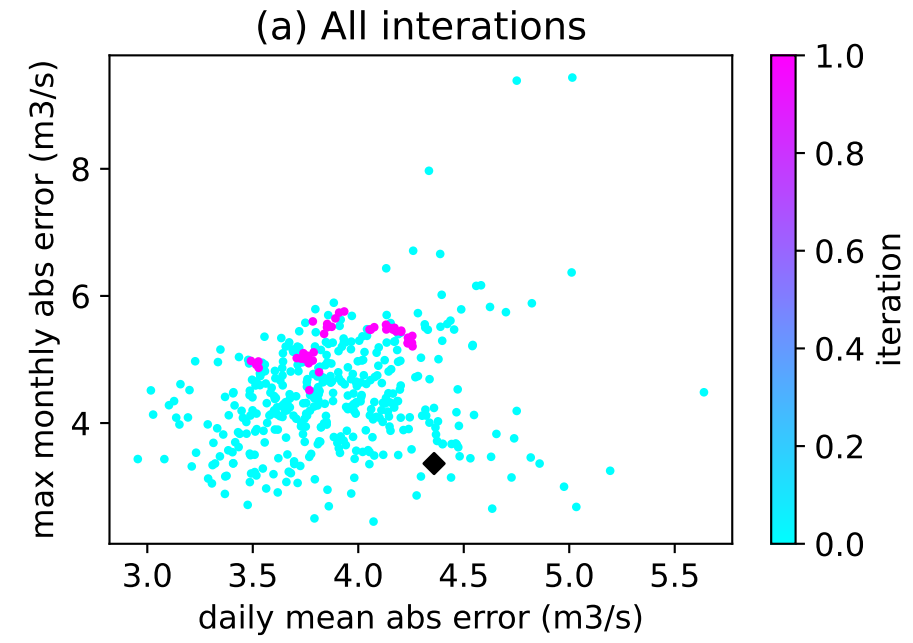

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 88
hru_id: 2027000
lat_cen: 37.82809
lon_cen: -79.02662
AREA: 241.32 km2
elev_mean: 554.96 m

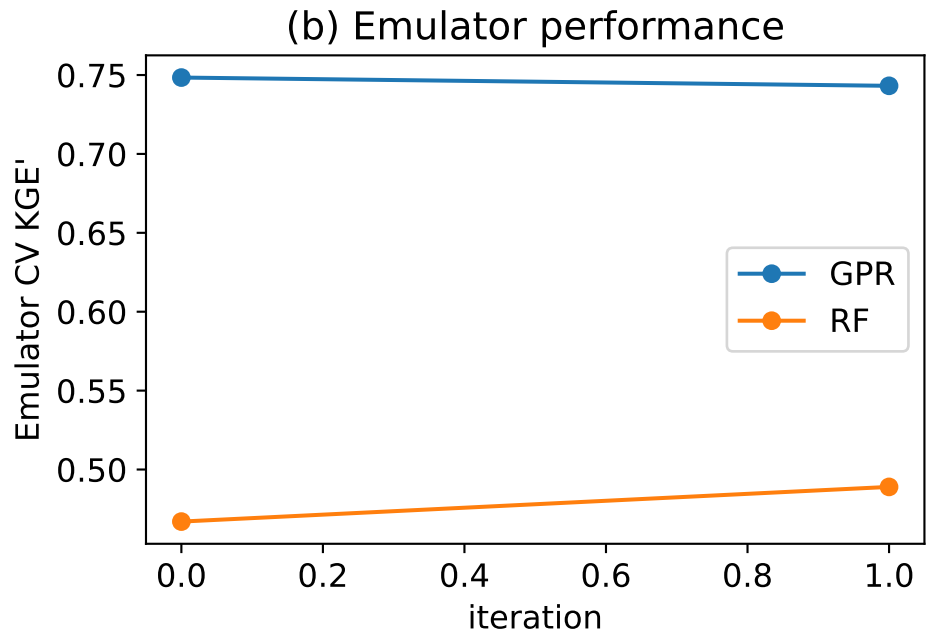


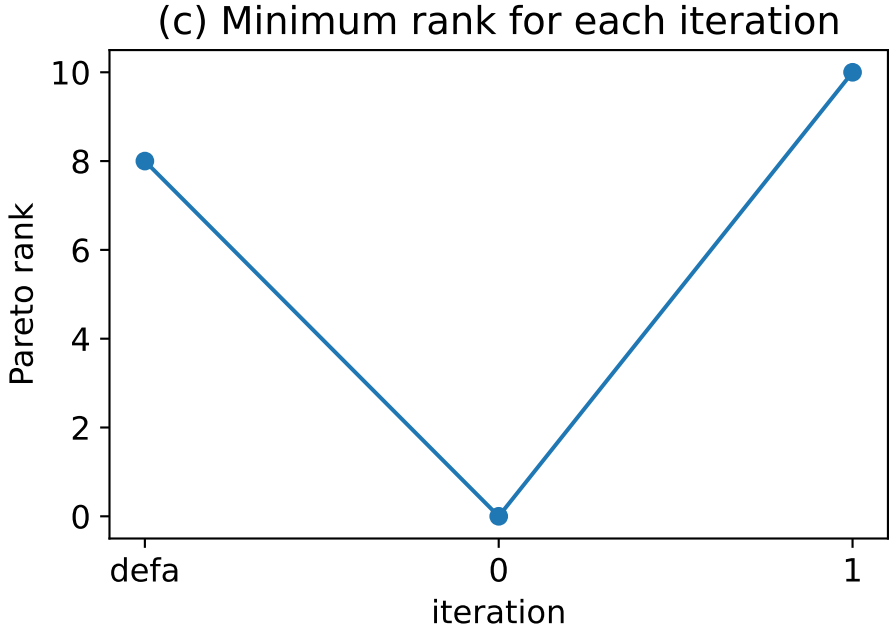




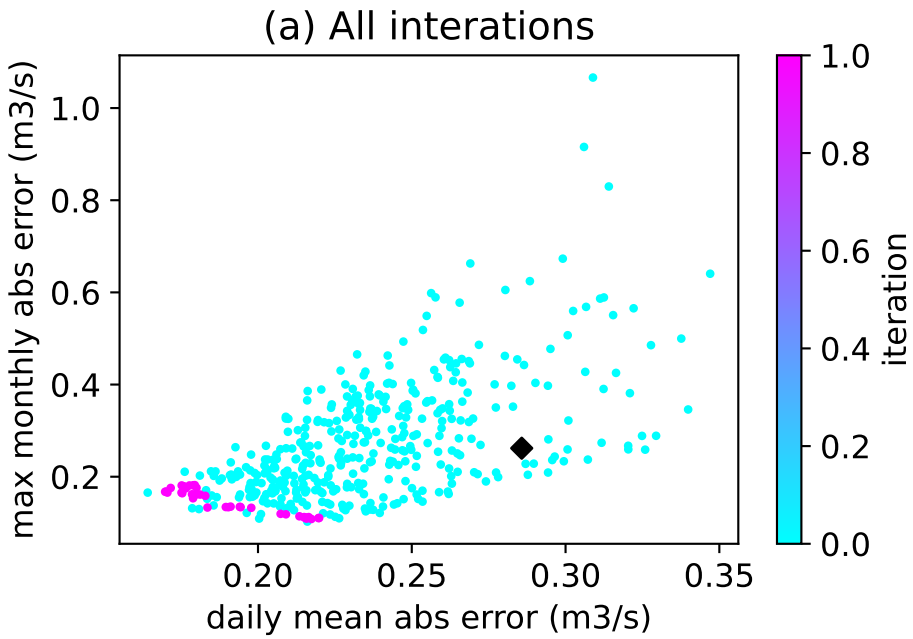
basinid: 89
hru_id: 2027500
lat_cen: 37.76551
lon_cen: -79.10871
AREA: 127.87 km2
elev_mean: 626.12 m

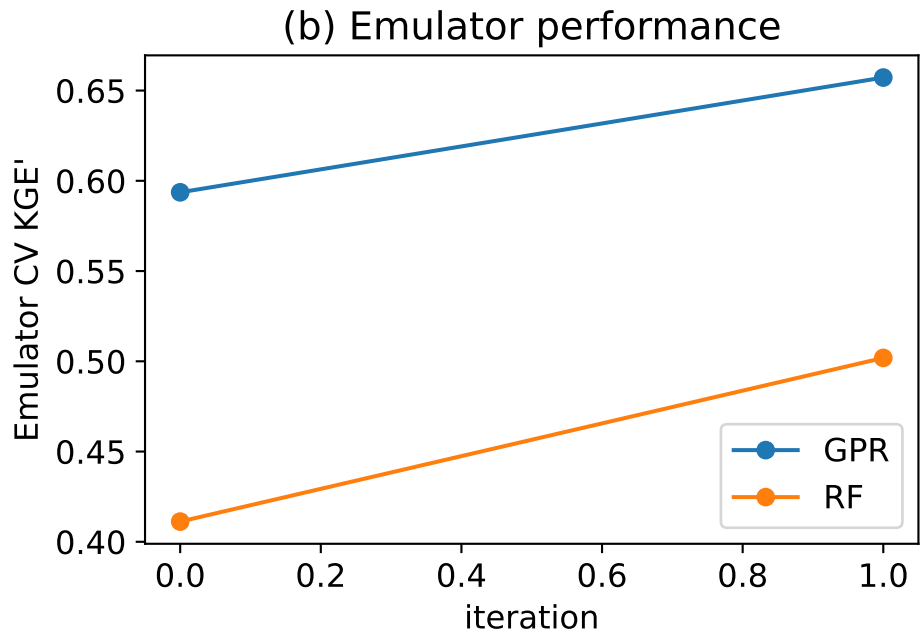


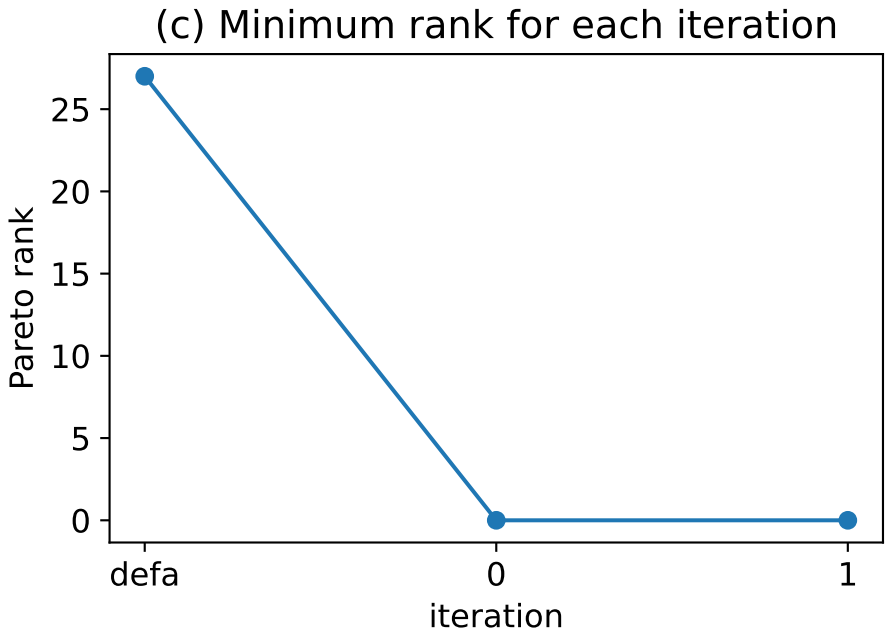




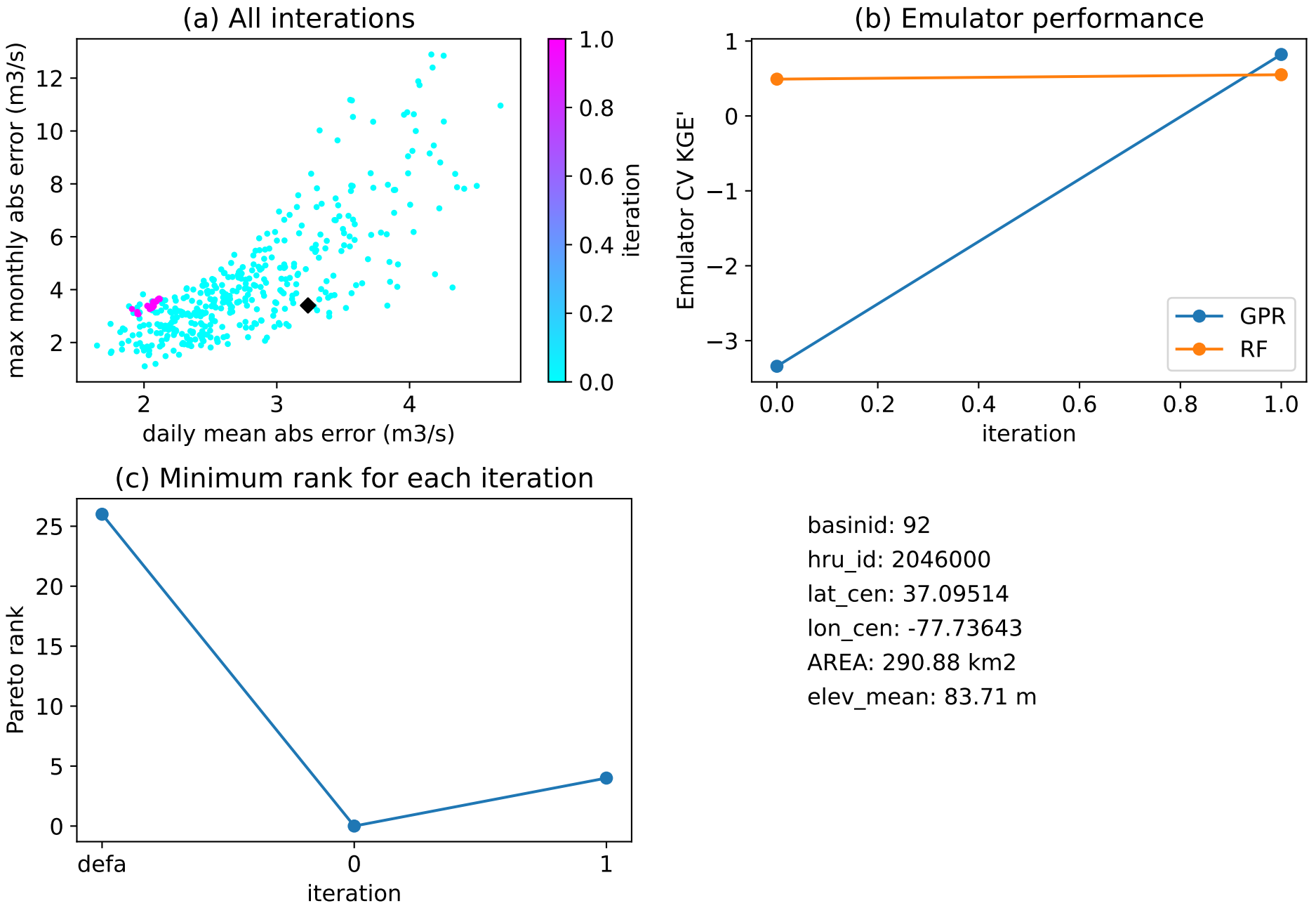
basinid: 90
hru_id: 2028500
lat_cen: 37.9313
lon_cen: -78.86402
AREA: 246.20 km2
elev_mean: 428.40 m

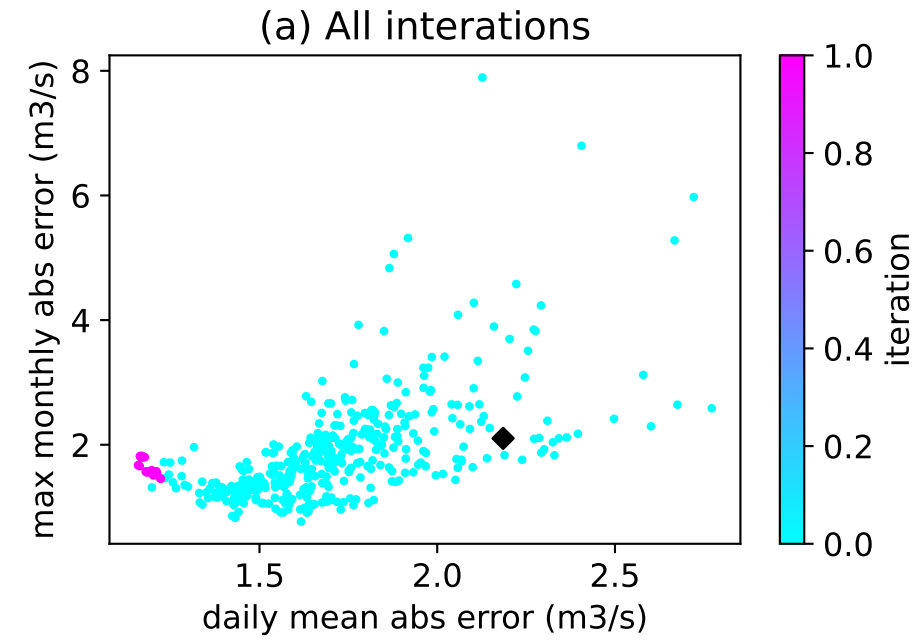


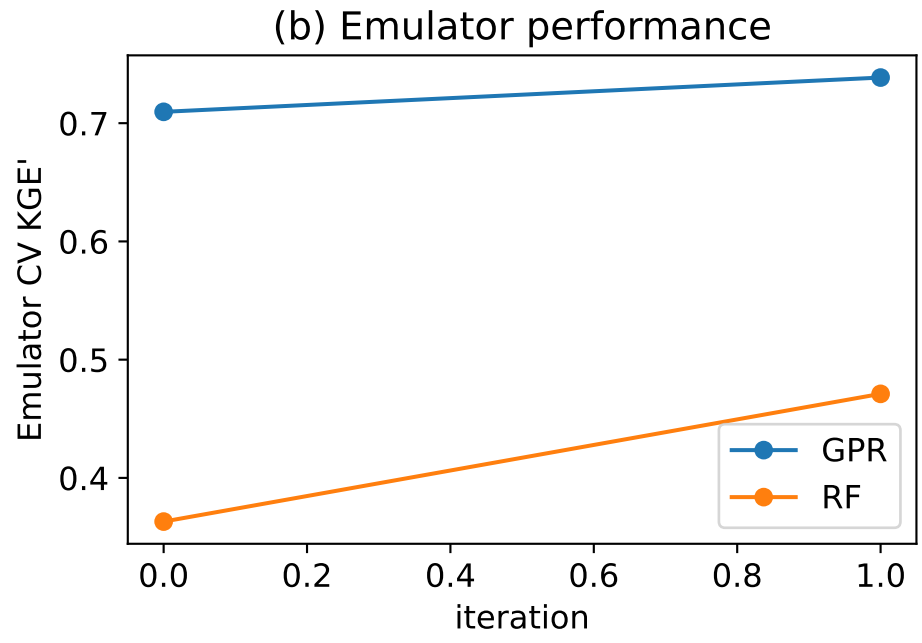


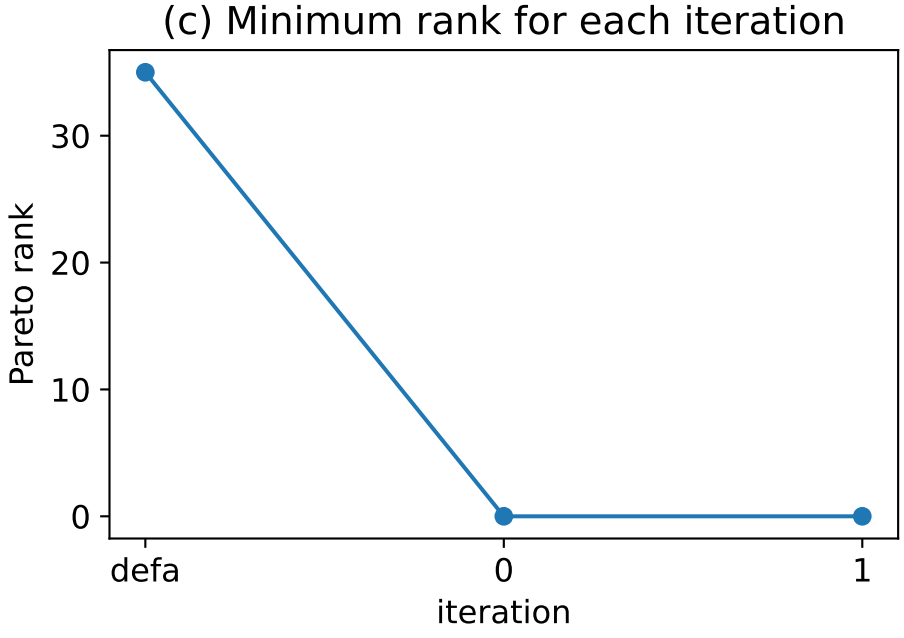


basinid: 91
hru_id: 2038850
lat_cen: 37.43049
lon_cen: -78.66836
AREA: 23.80 km2
elev_mean: 205.29 m

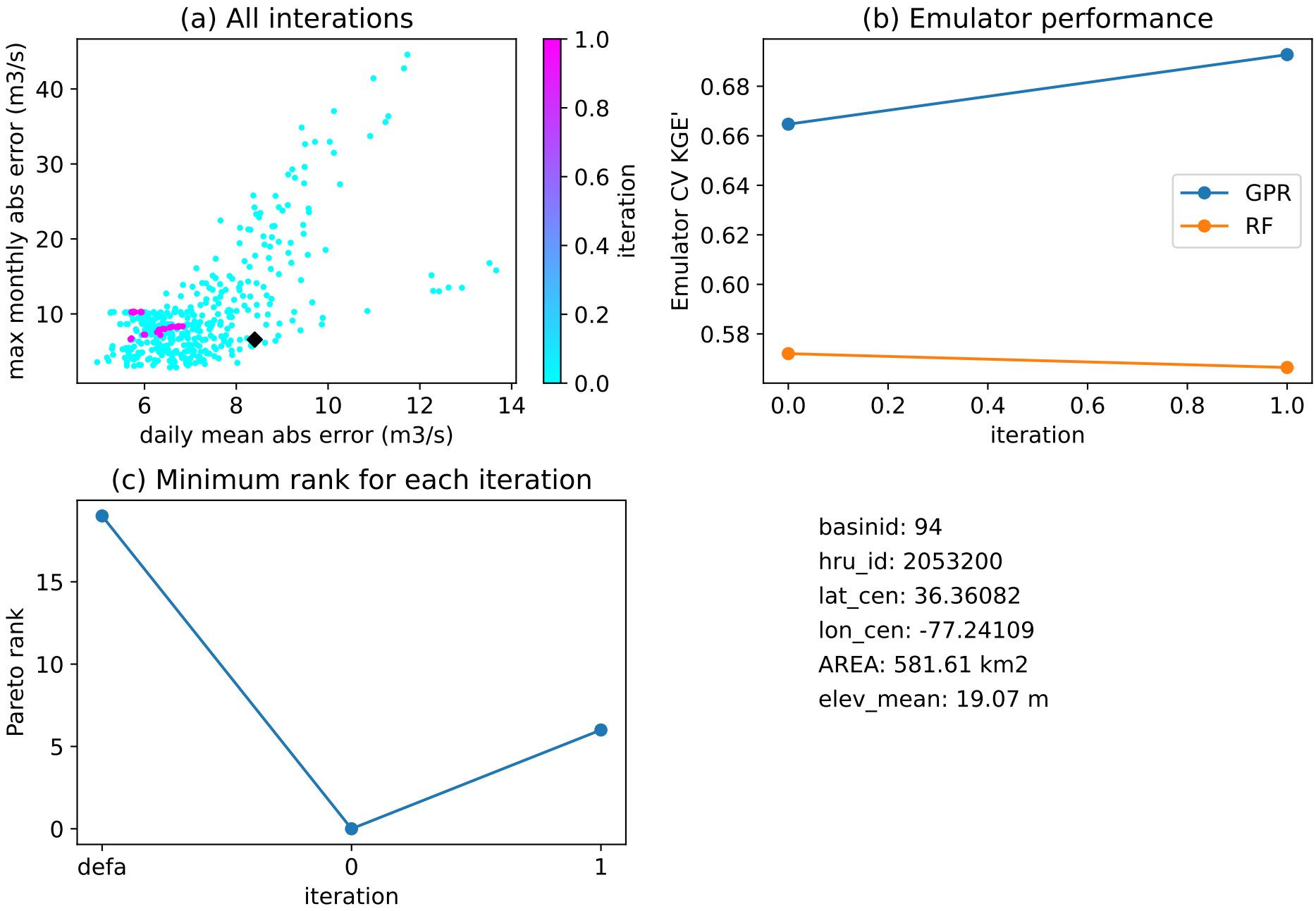

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 92
hru_id: 2046000
lat_cen: 37.09514
lon_cen: -77.73643
AREA: 290.88 km2
elev_mean: 83.71 m

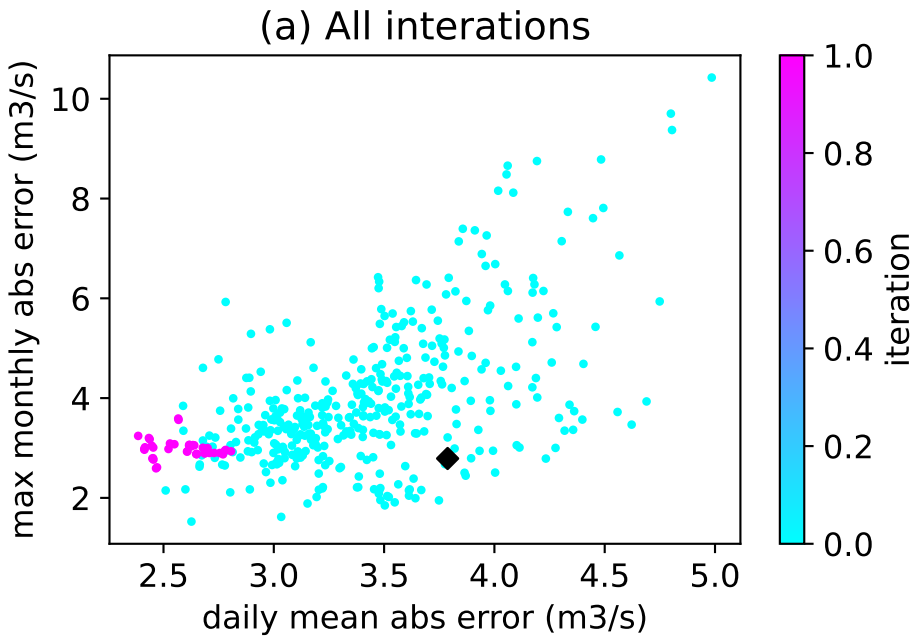


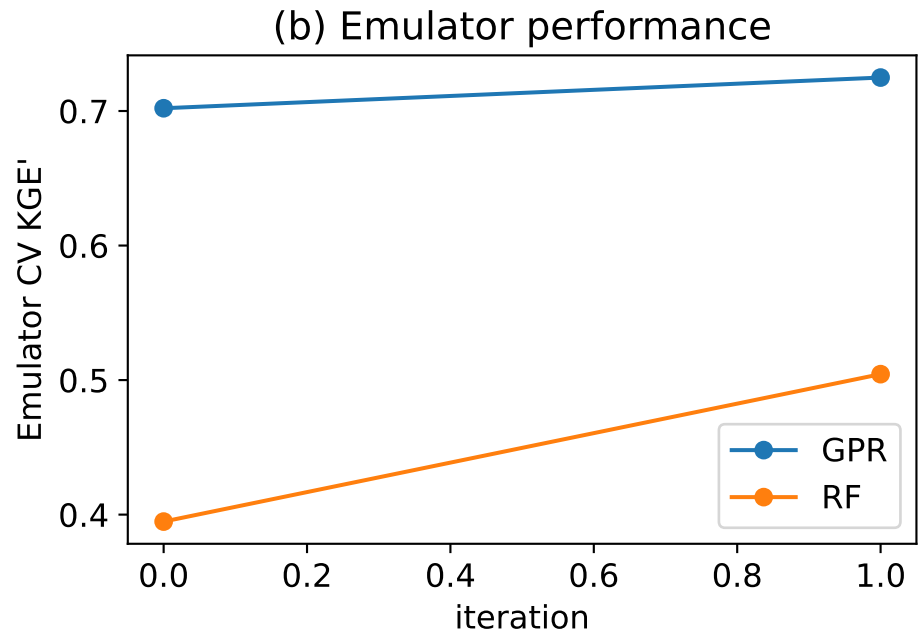


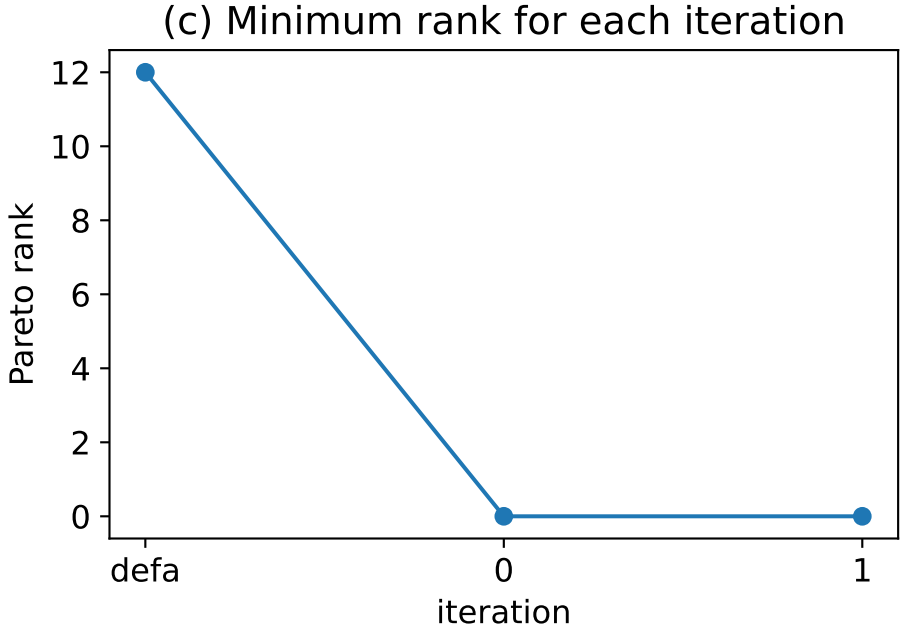


basinid: 93
hru_id: 2051000
lat_cen: 37.05035
lon_cen: -78.37505
AREA: 145.11 km2
elev_mean: 148.06 m

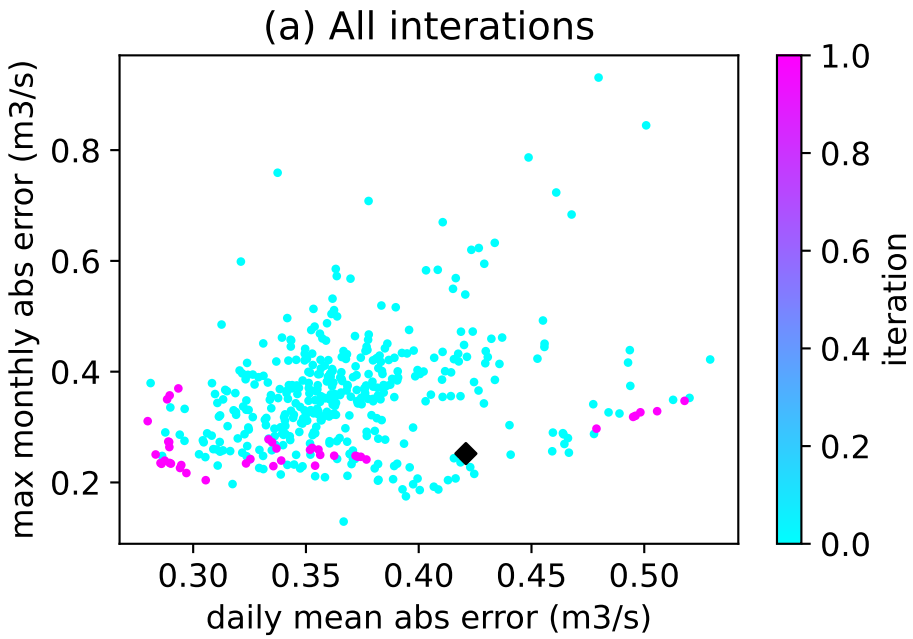

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 94
hru_id: 2053200
lat_cen: 36.36082
lon_cen: -77.24109
AREA: 581.61 km2
elev_mean: 19.07 m

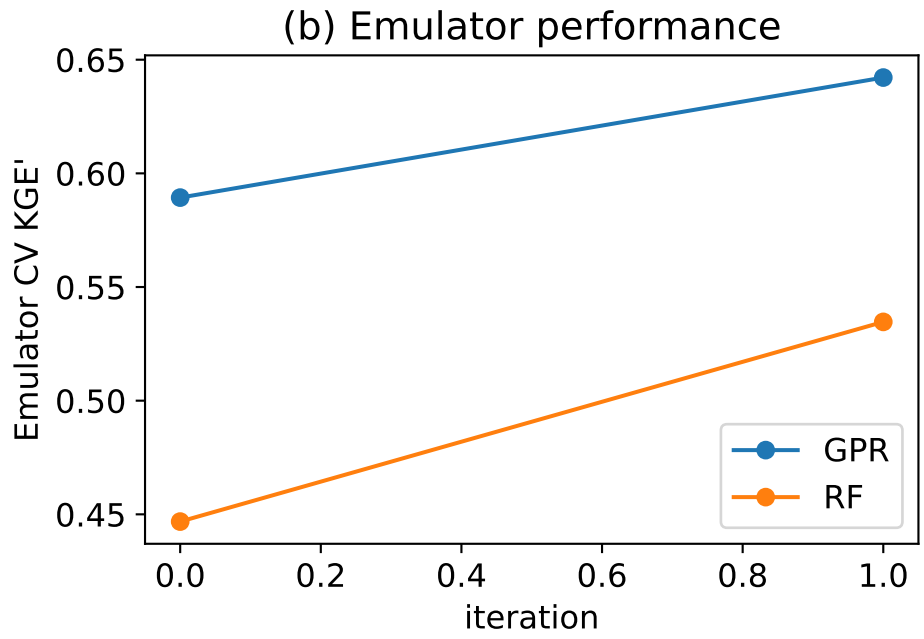


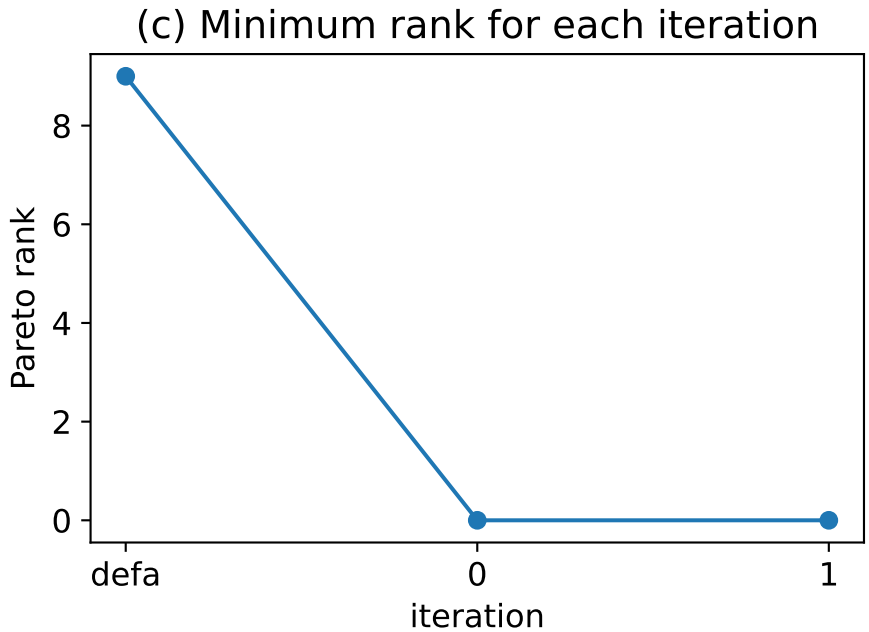




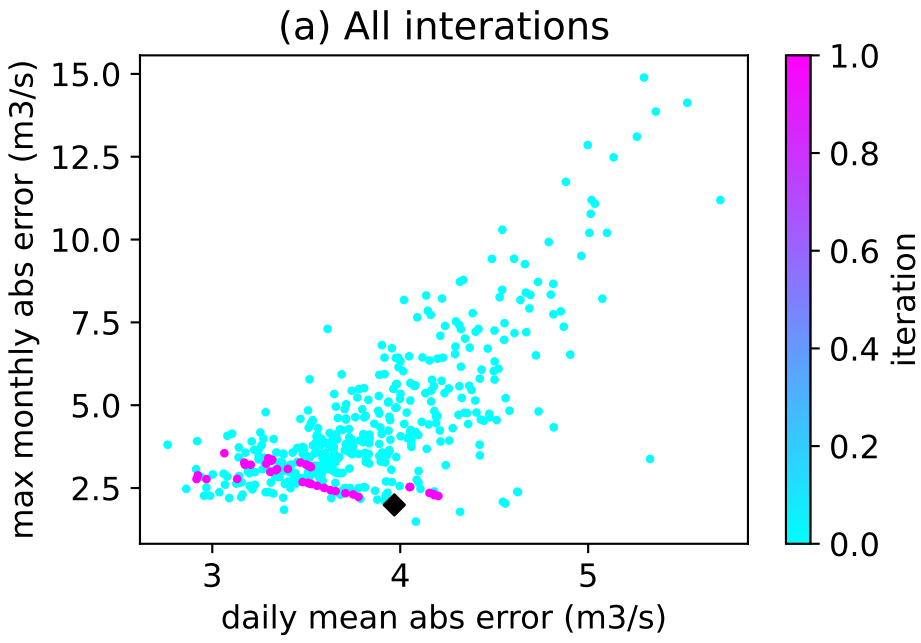
basinid: 95
hru_id: 2053800
lat_cen: 37.10785
lon_cen: -80.25445
AREA: 288.52 km2
elev_mean: 706.61 m

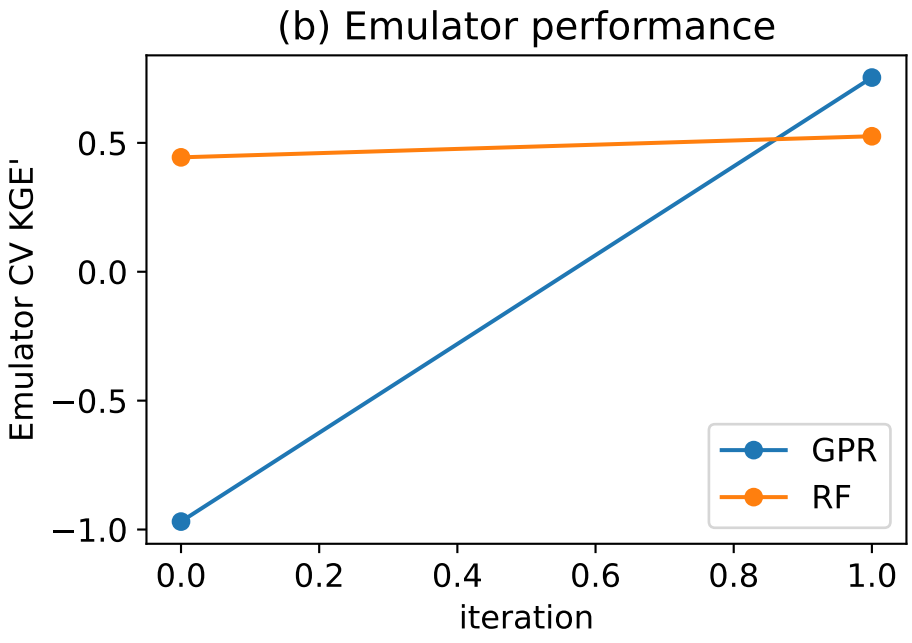


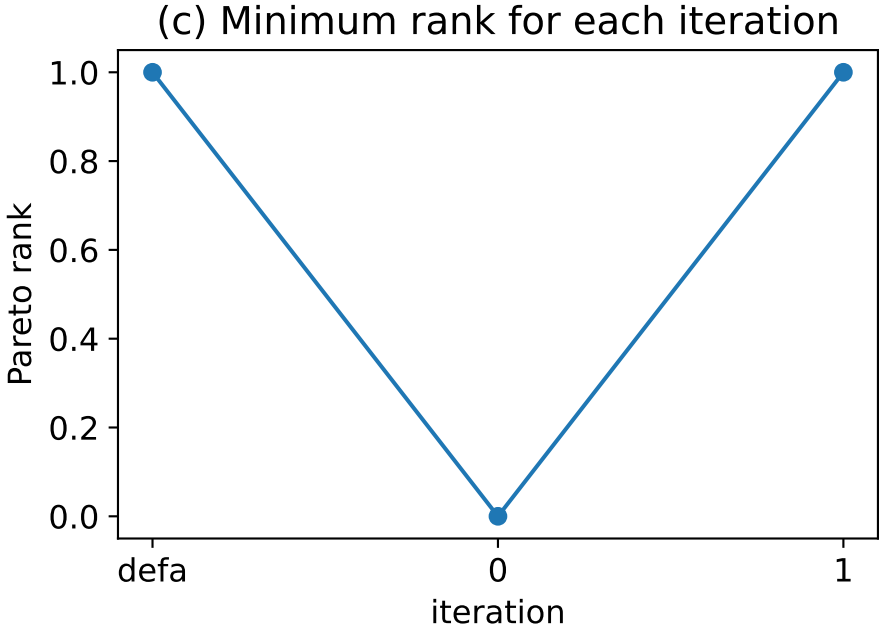




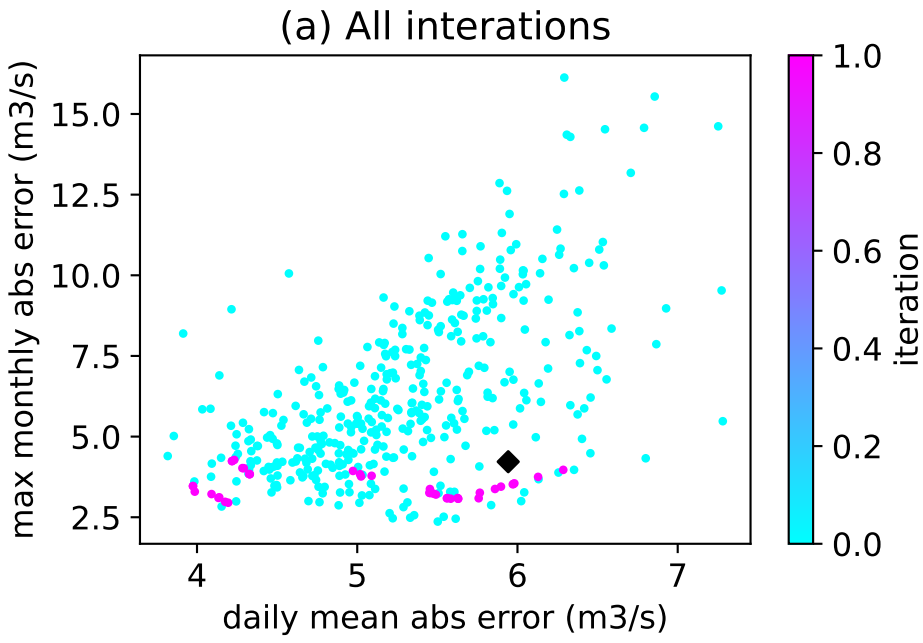
basinid: 96
hru_id: 2055100
lat_cen: 37.43629
lon_cen: -79.93072
AREA: 33.34 km2
elev_mean: 439.35 m

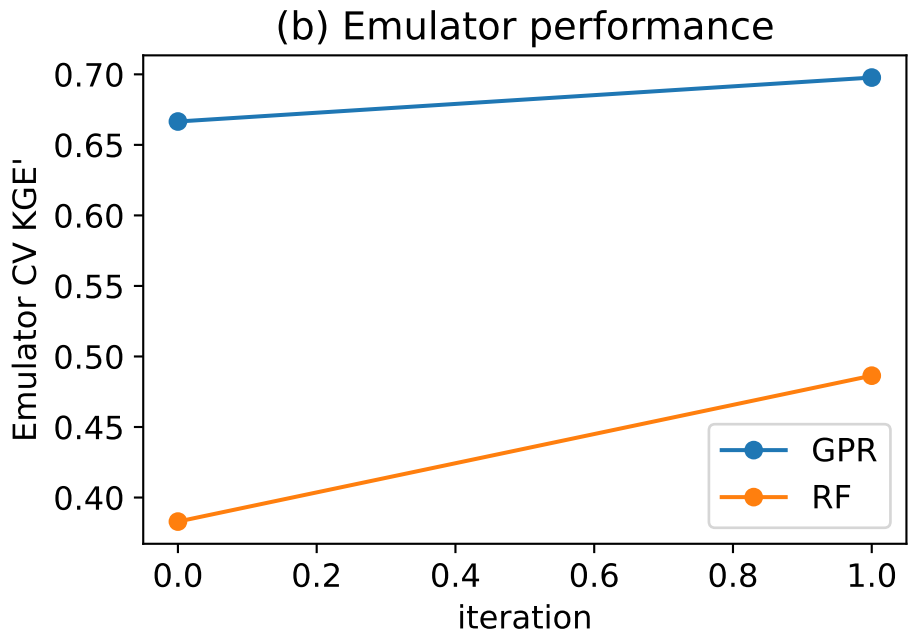


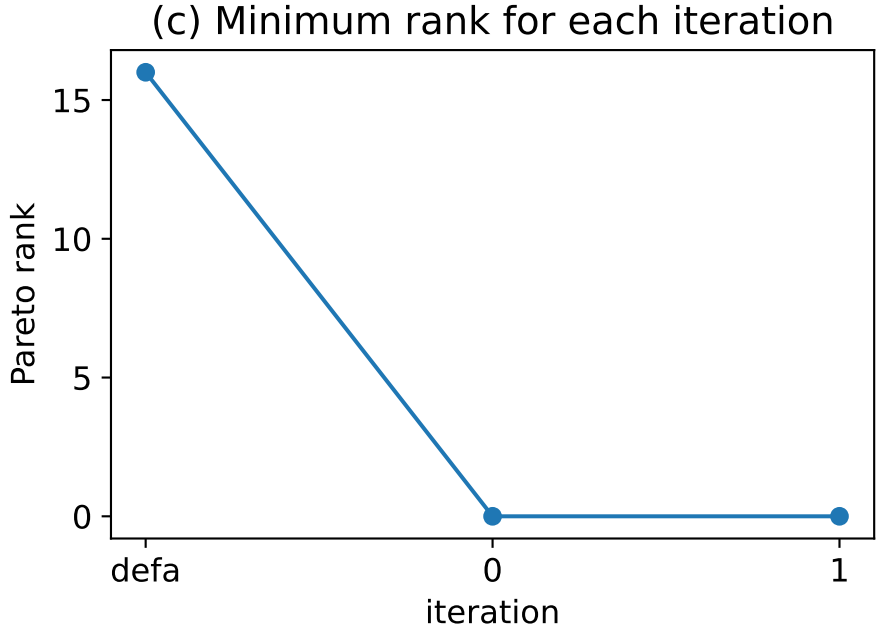




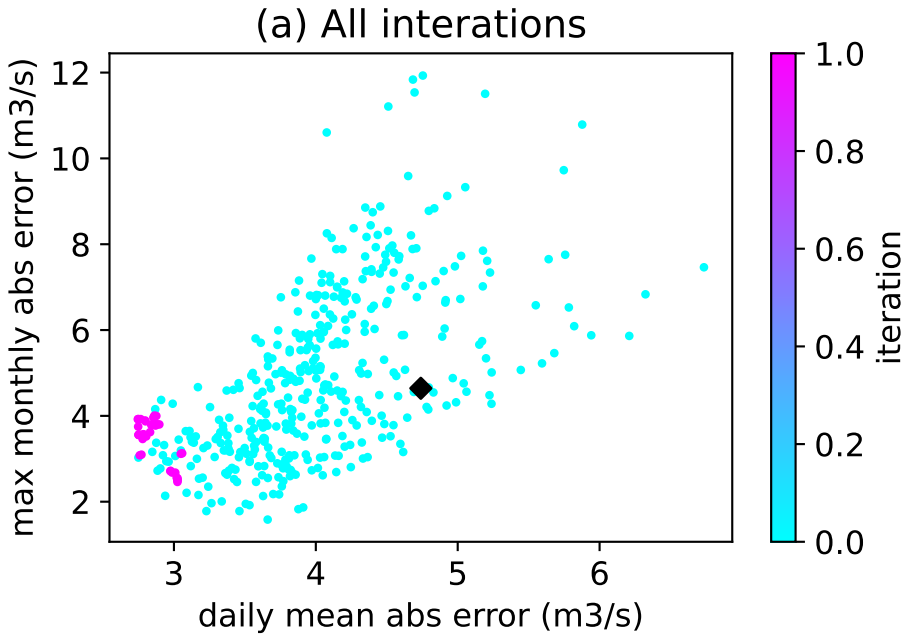
basinid: 97
hru_id: 2056900
lat_cen: 37.06031
lon_cen: -80.00858
AREA: 299.46 km2
elev_mean: 472.11 m

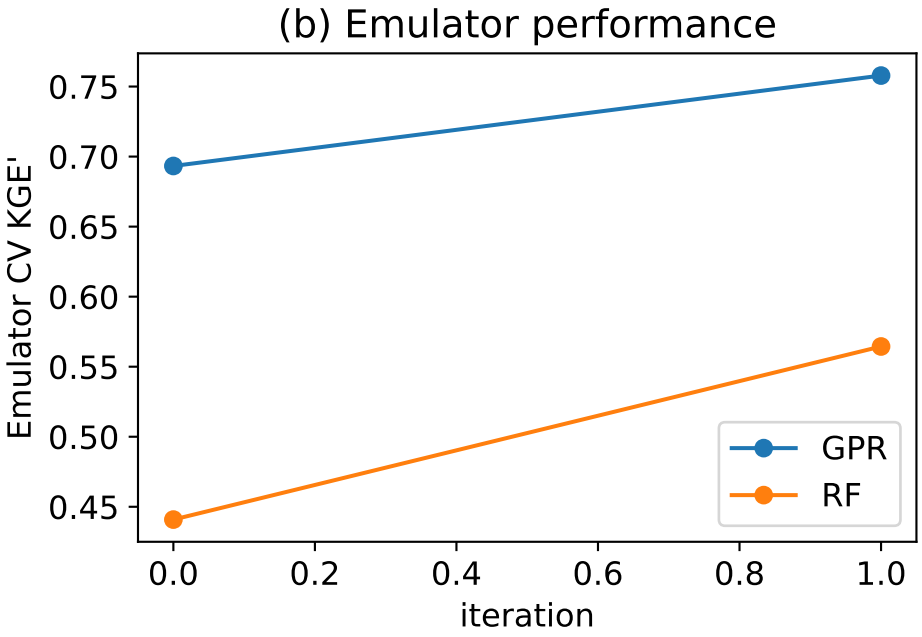


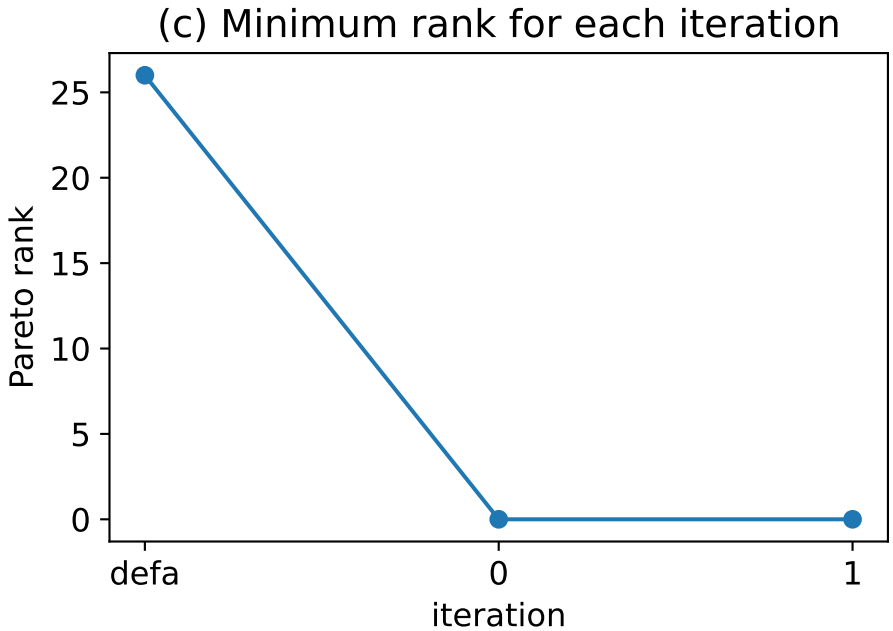




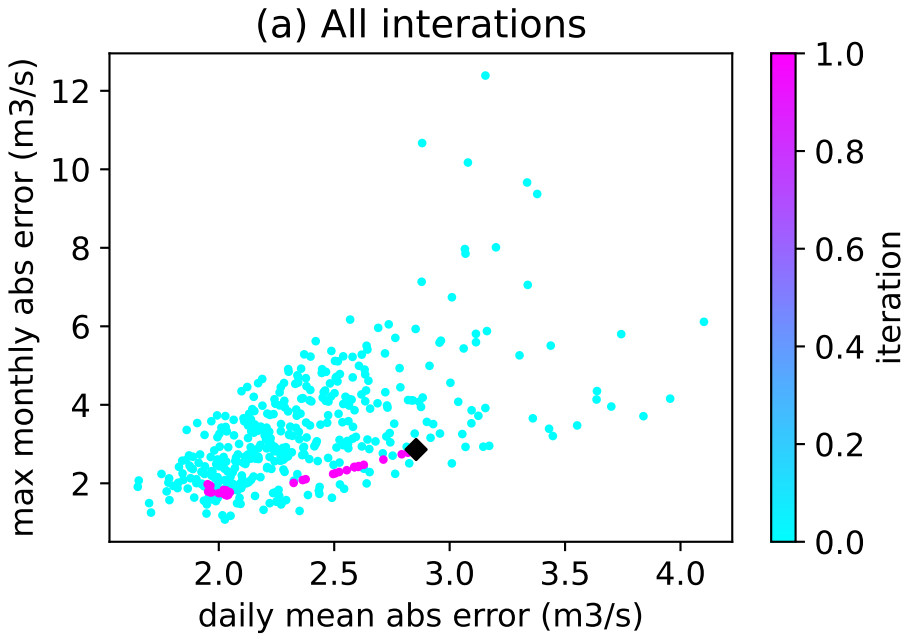
basinid: 98
hru_id: 2059500
lat_cen: 37.30298
lon_cen: -79.65126
AREA: 486.46 km2
elev_mean: 336.32 m

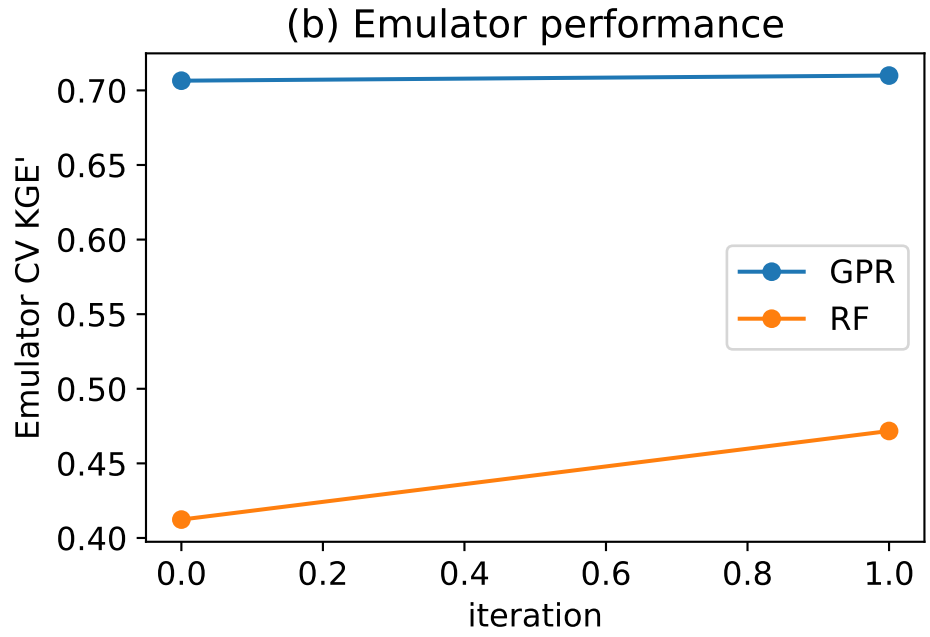


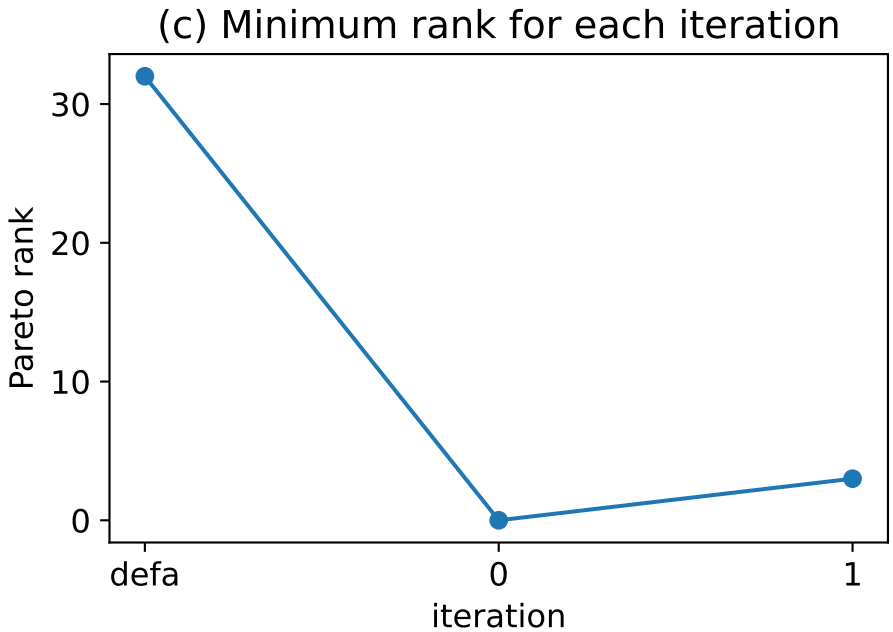




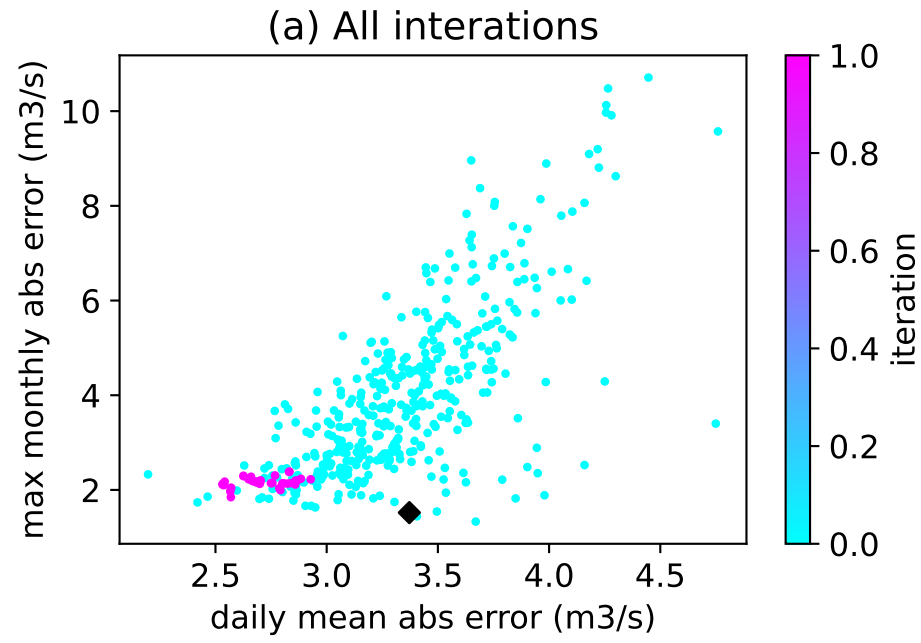
basinid: 99
hru_id: 2064000
lat_cen: 37.24936
lon_cen: -78.97491
AREA: 427.99 km2
elev_mean: 208.21 m

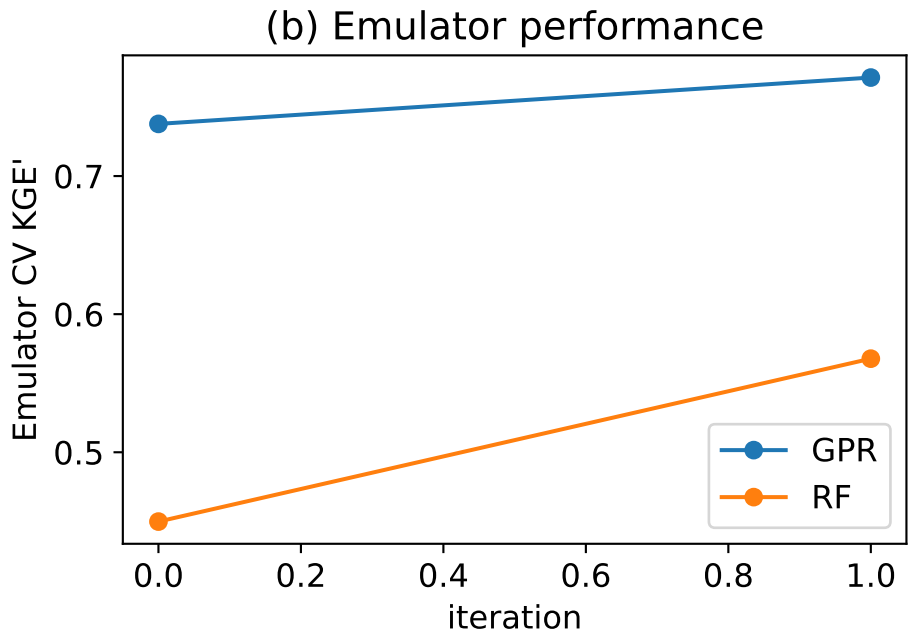


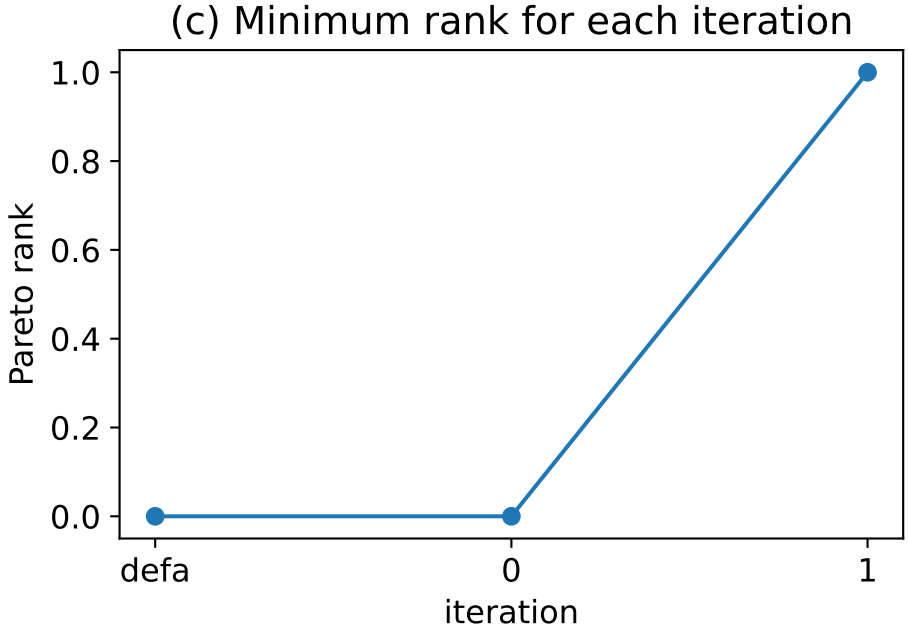




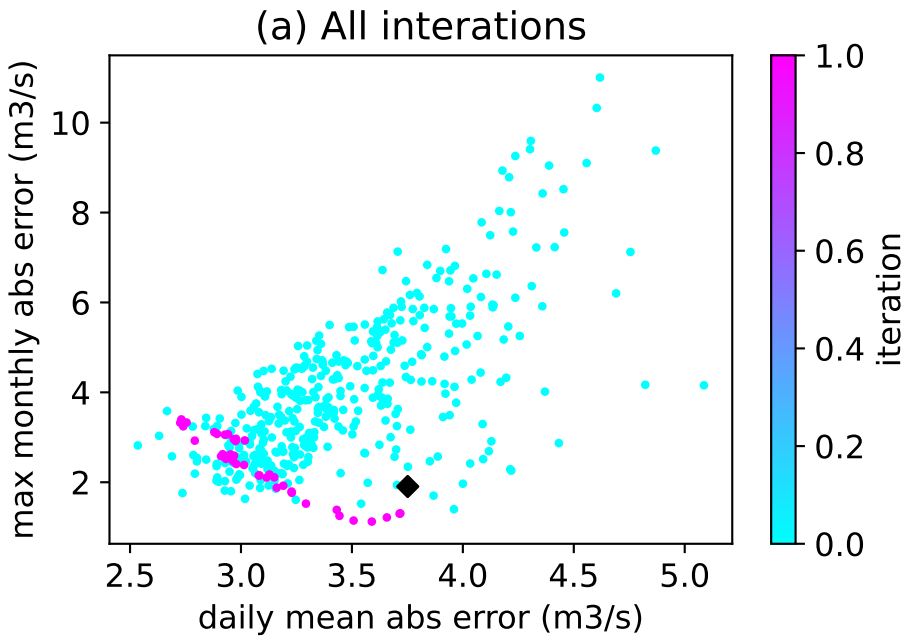
basinid: 100
hru_id: 2065500
lat_cen: 37.21614
lon_cen: -78.76502
AREA: 252.75 km2
elev_mean: 185.35 m

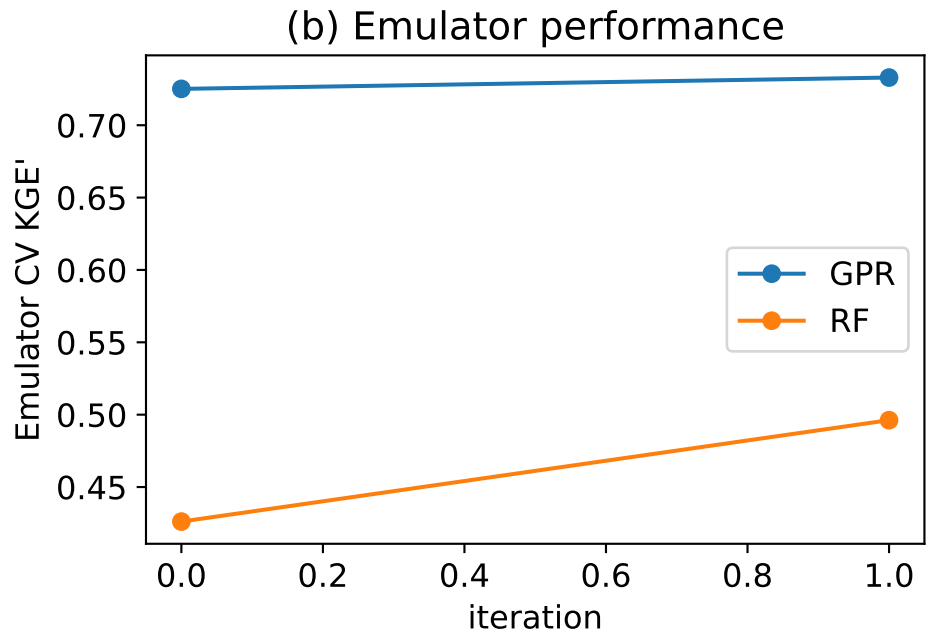


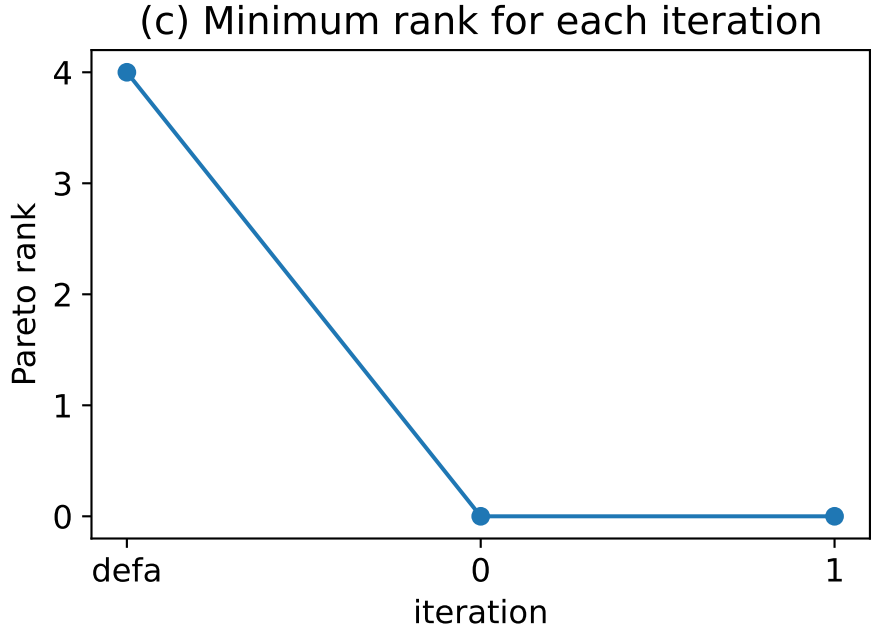




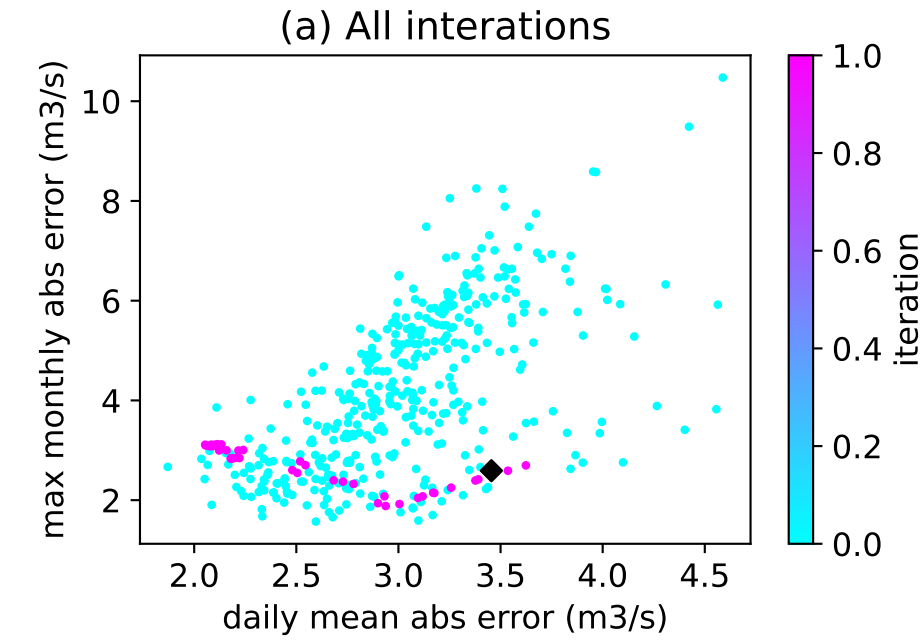
basinid: 101
hru_id: 2069700
lat_cen: 36.62832
lon_cen: -80.24892
AREA: 228.68 km2
elev_mean: 452.77 m

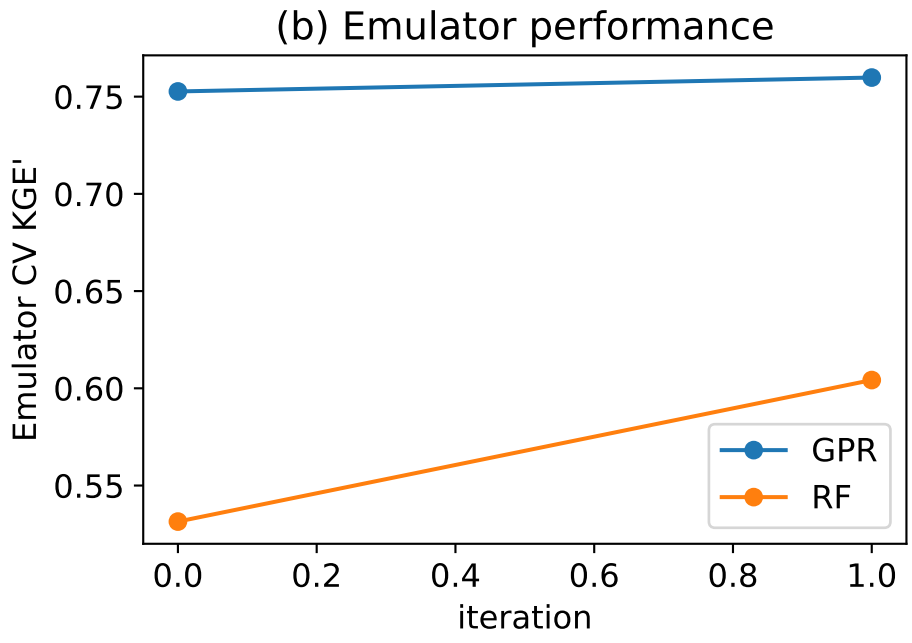


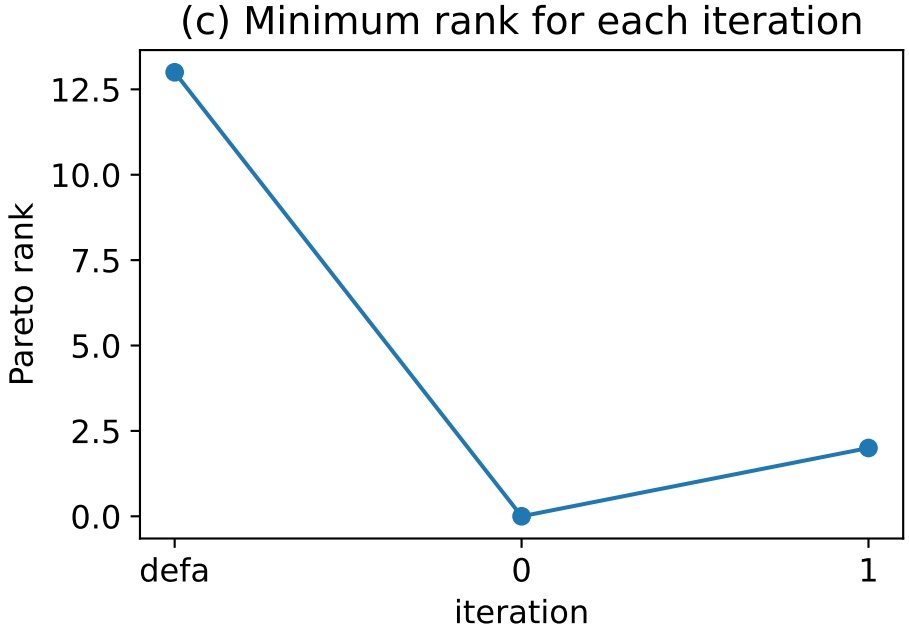




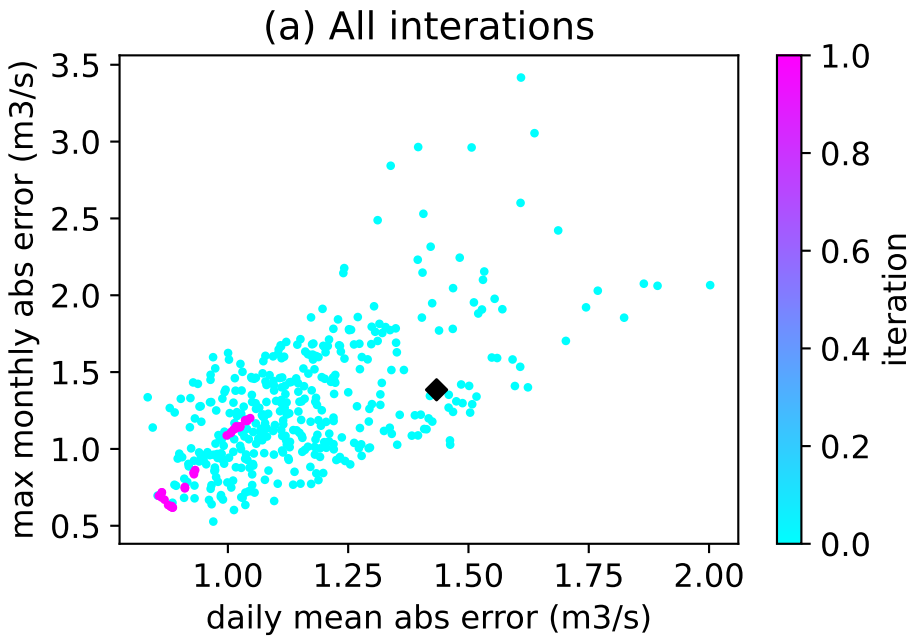
basinid: 102
hru_id: 2070000
lat_cen: 36.66006
lon_cen: -80.07252
AREA: 279.27 km2
elev_mean: 331.99 m

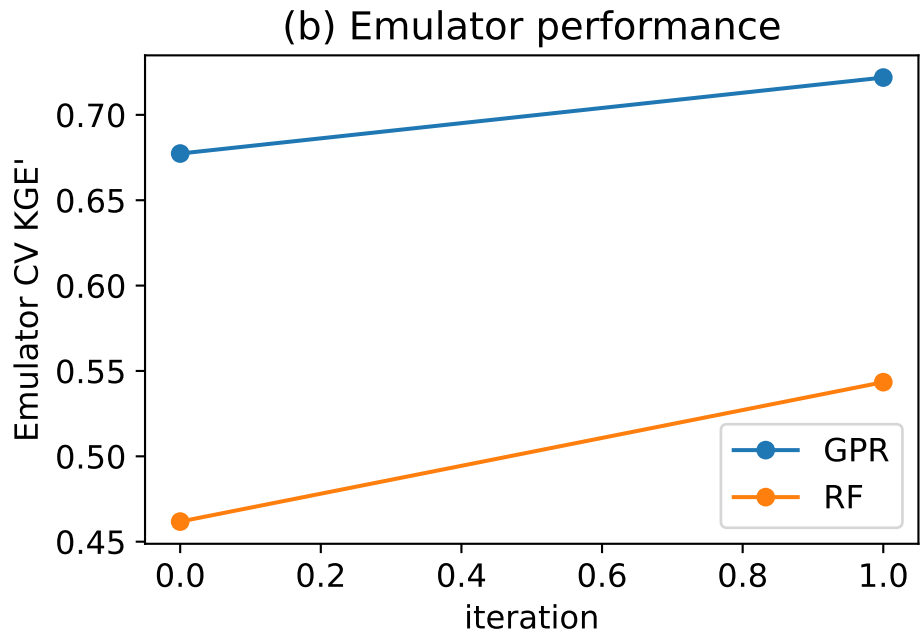


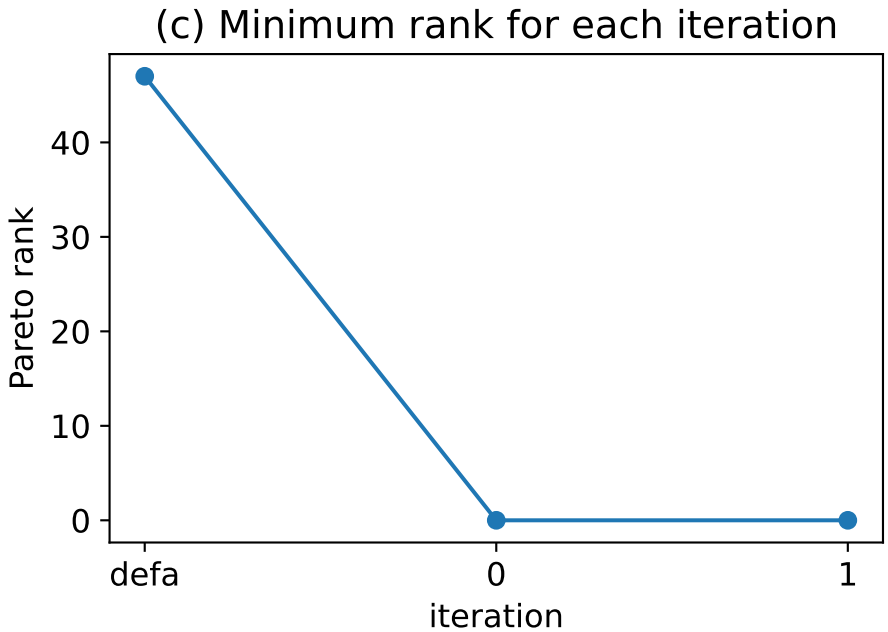




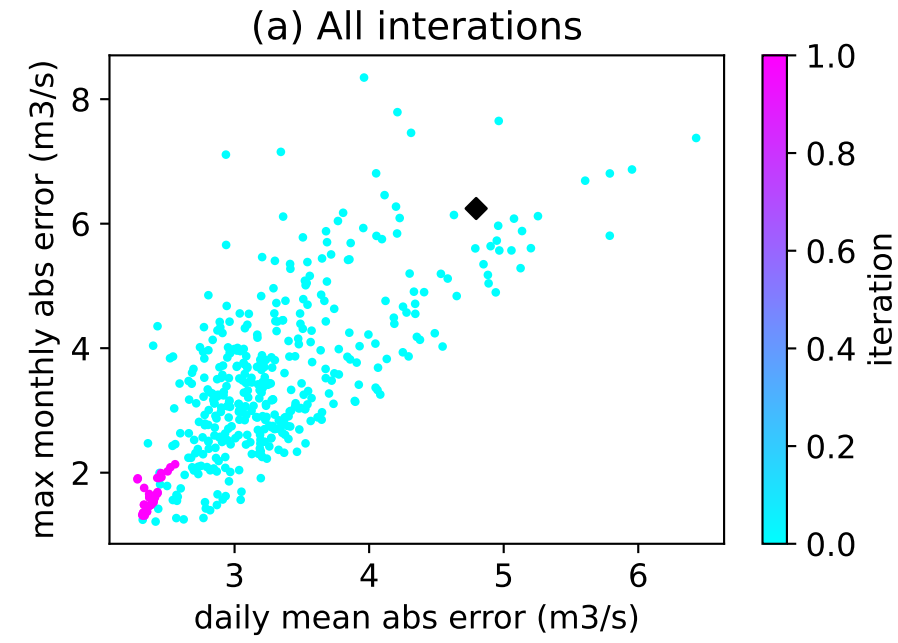
basinid: 103
hru_id: 2074500
lat_cen: 36.6951
lon_cen: -79.60934
AREA: 288.80 km2
elev_mean: 243.85 m

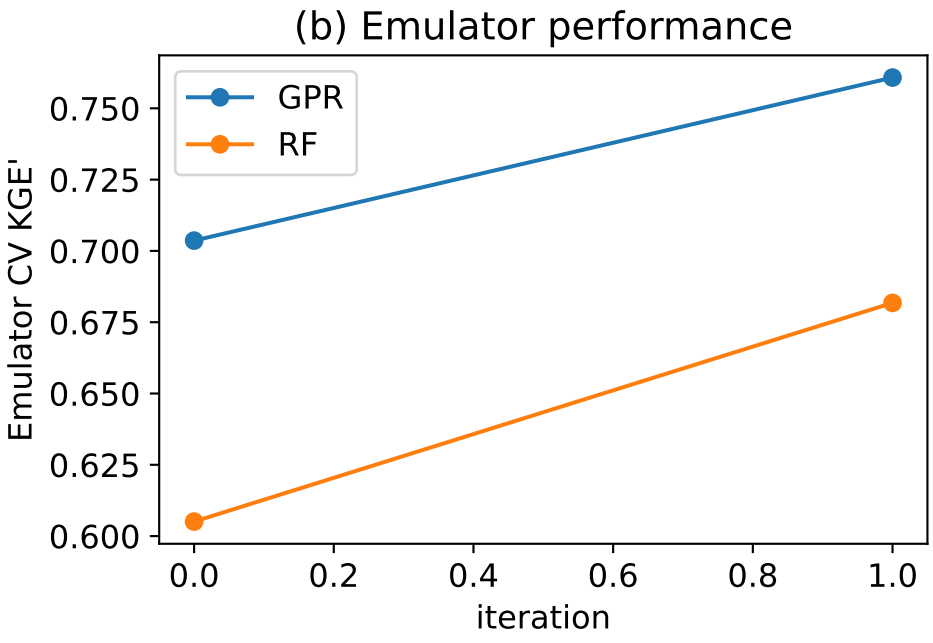


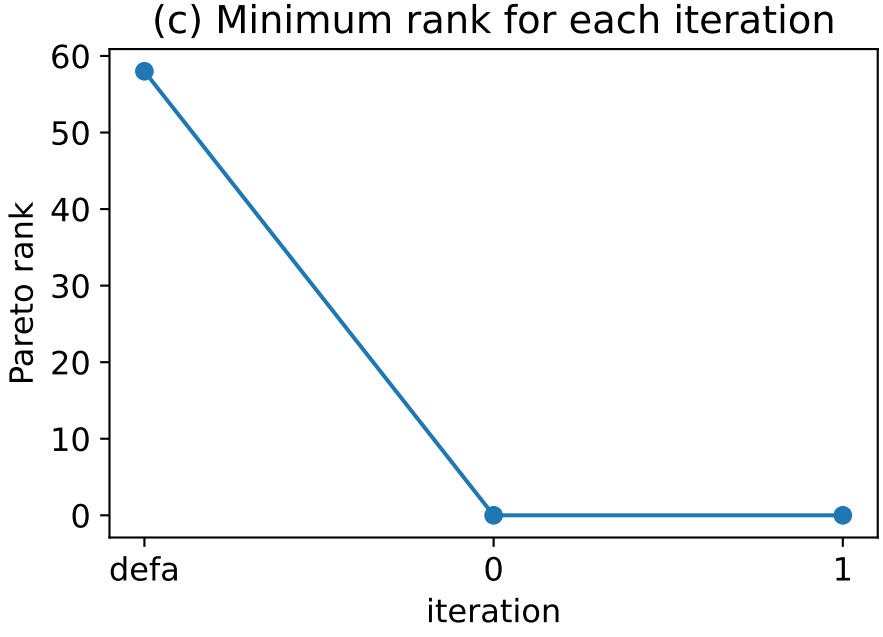




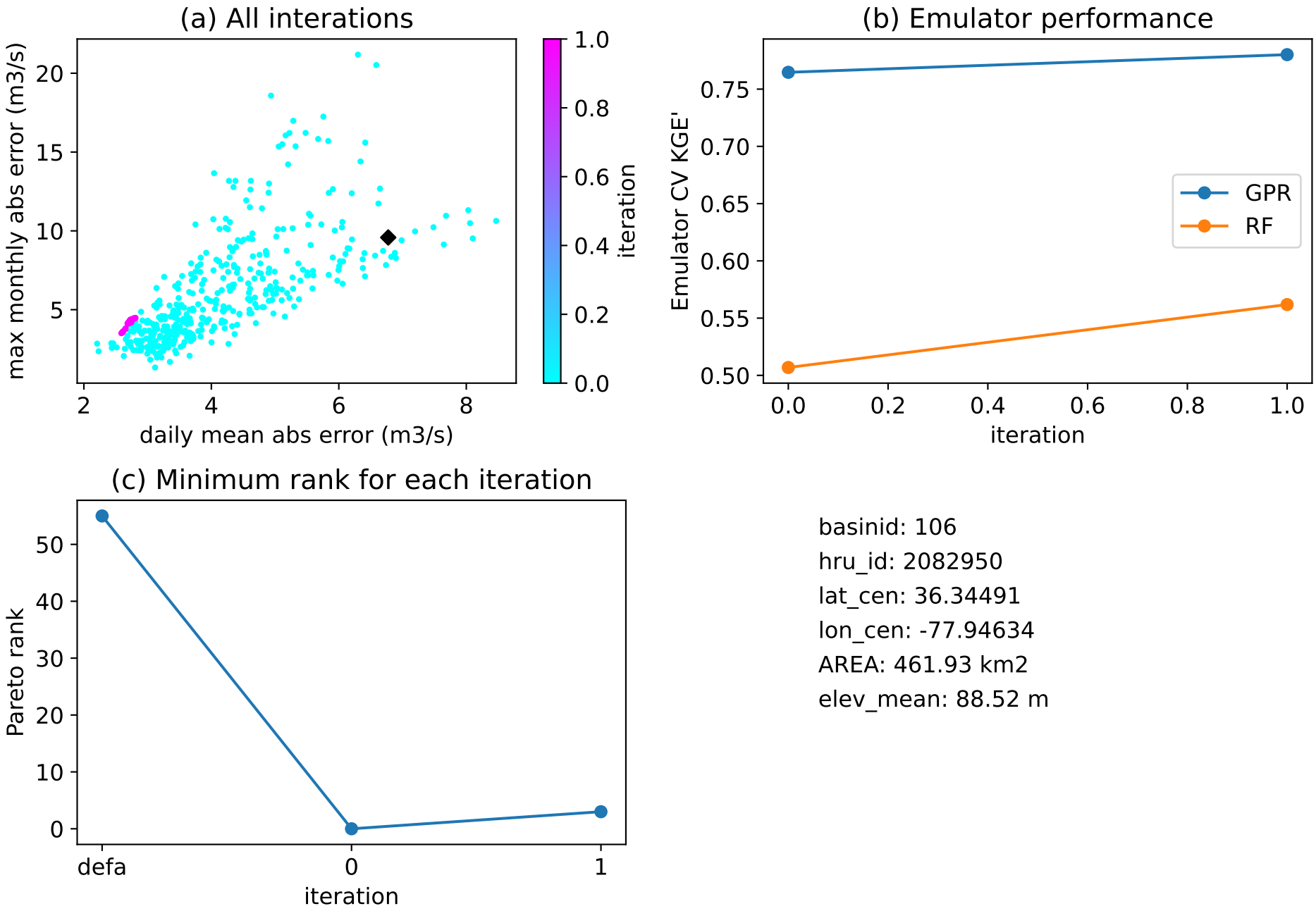
basinid: 104
hru_id: 2077200
lat_cen: 36.3001
lon_cen: -79.22655
AREA: 126.34 km2
elev_mean: 190.34 m

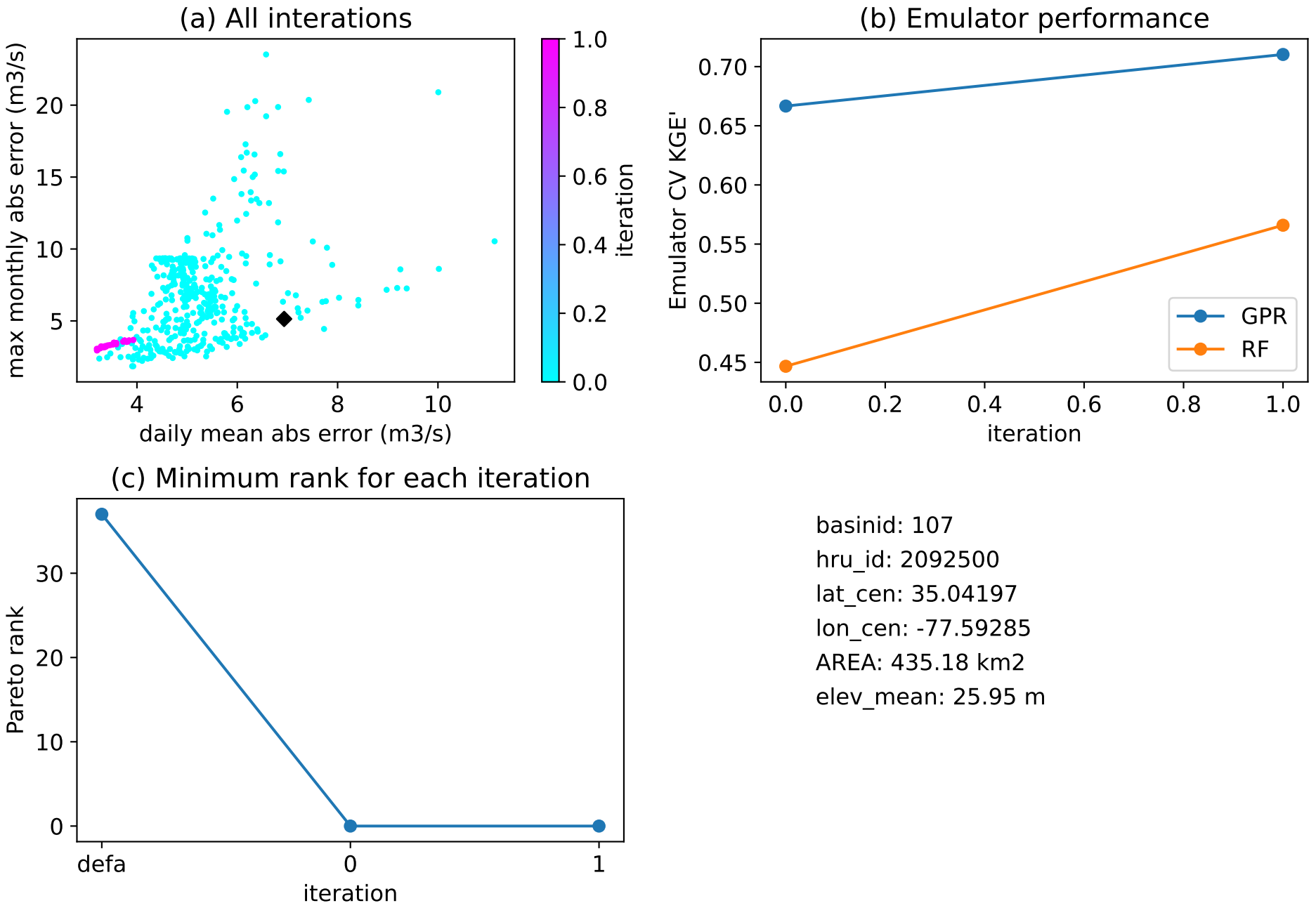


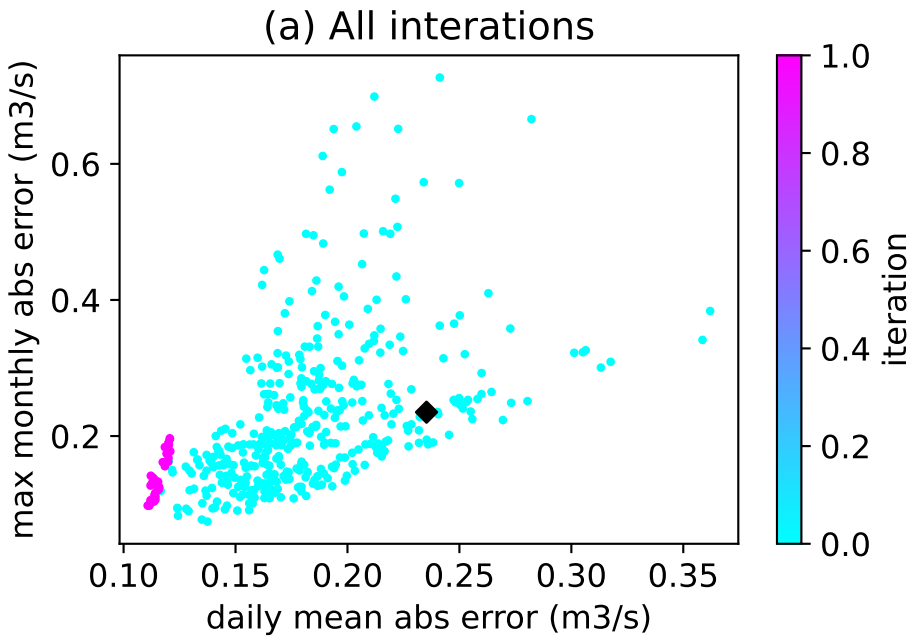


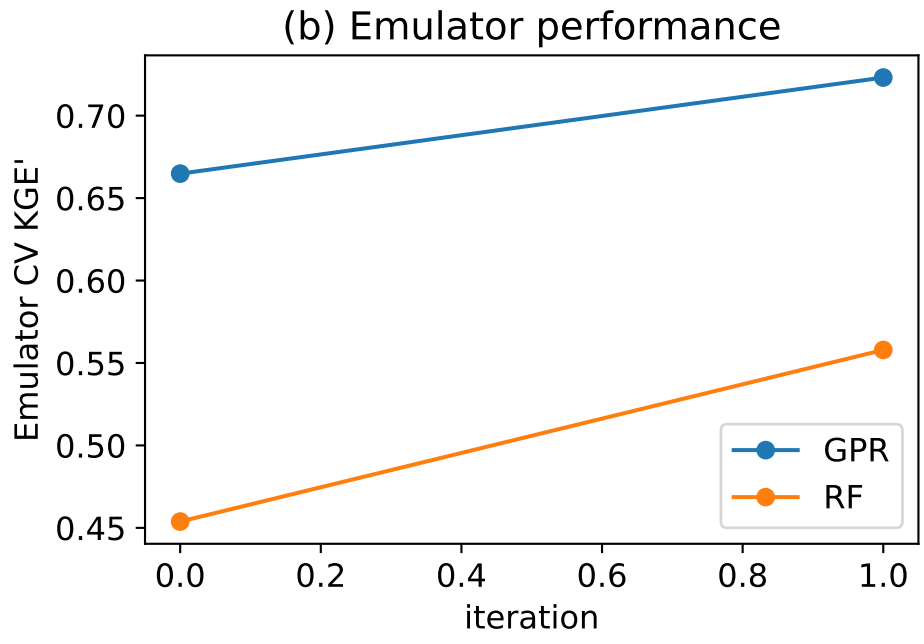


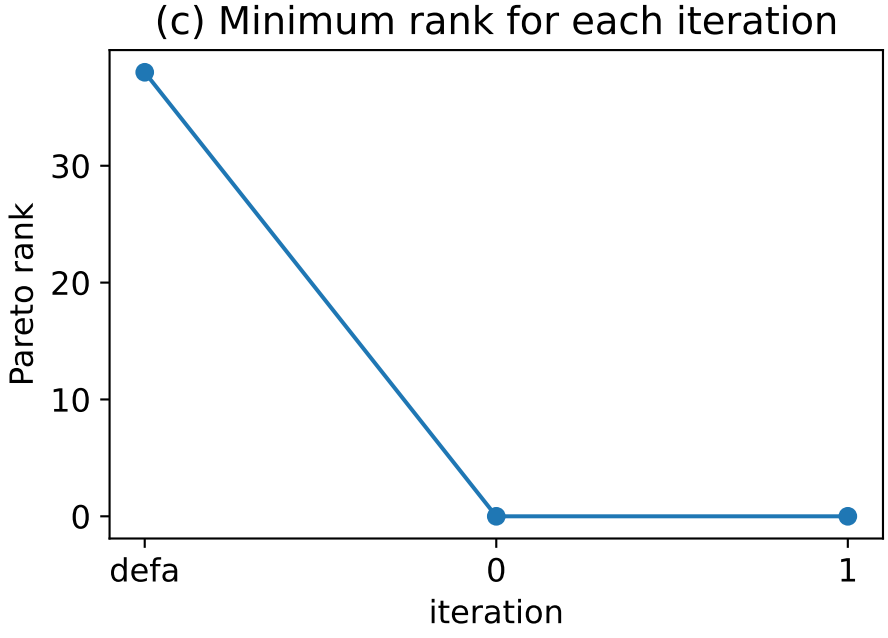
basinid: 105
hru_id: 2081500
lat_cen: 36.30158
lon_cen: -78.71923
AREA: 432.83 km2
elev_mean: 147.76 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 106
hru_id: 2082950
lat_cen: 36.34491
lon_cen: -77.94634
AREA: 461.93 km2
elev_mean: 88.52 m

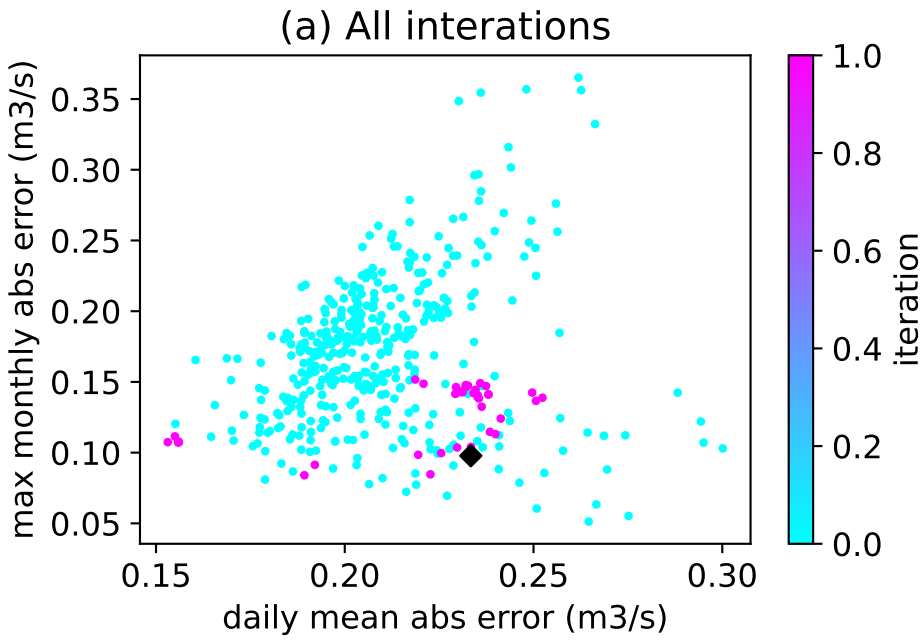

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 107
hru_id: 2092500
lat_cen: 35.04197
lon_cen: -77.59285
AREA: 435.18 km2
elev_mean: 25.95 m

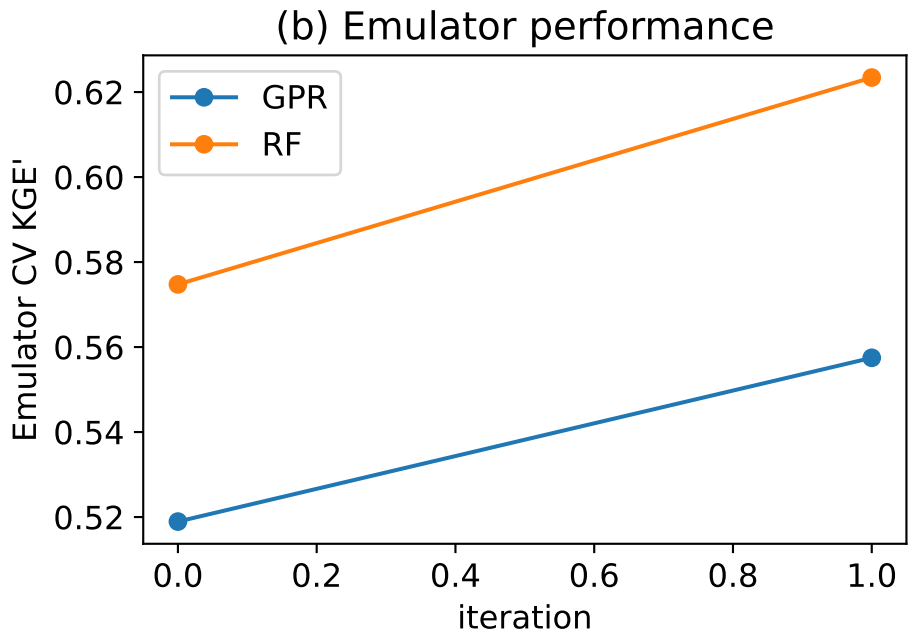


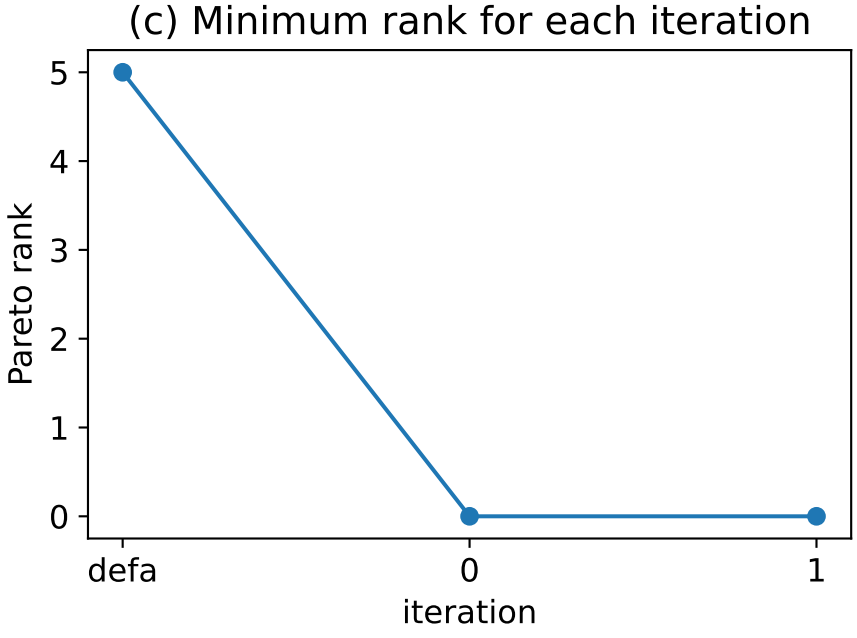




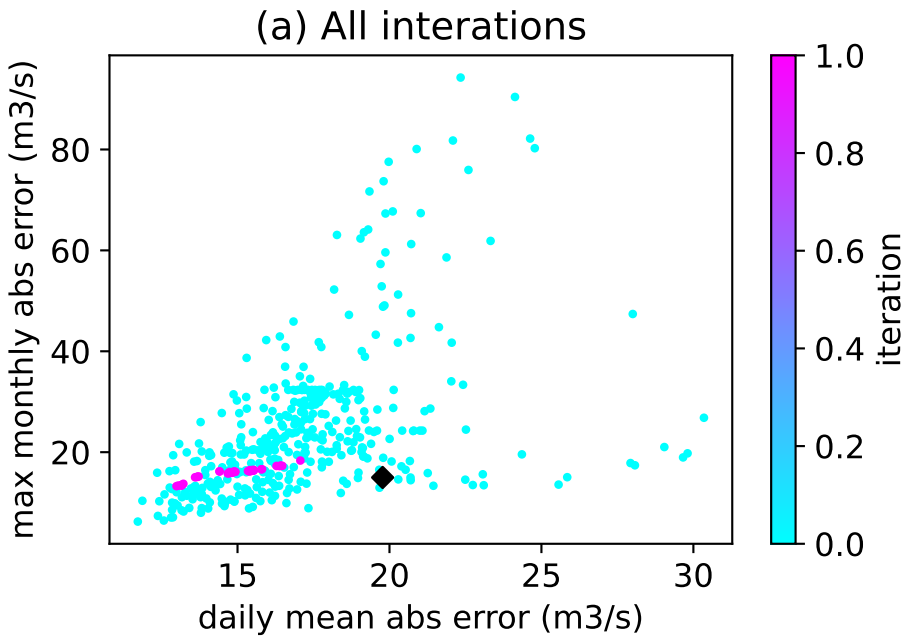
basinid: 108
hru_id: 2096846
lat_cen: 36.00844
lon_cen: -79.18314
AREA: 19.58 km2
elev_mean: 222.95 m

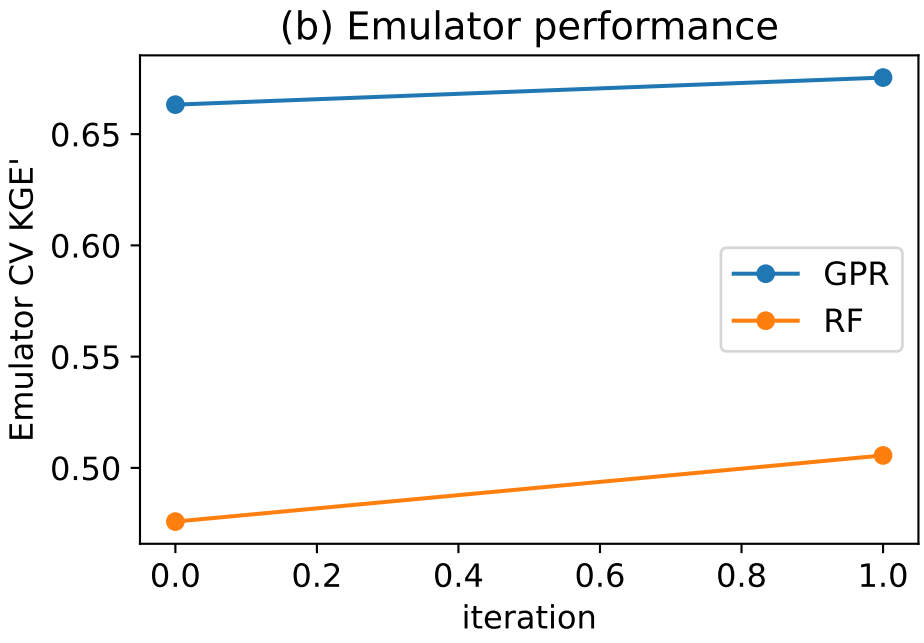


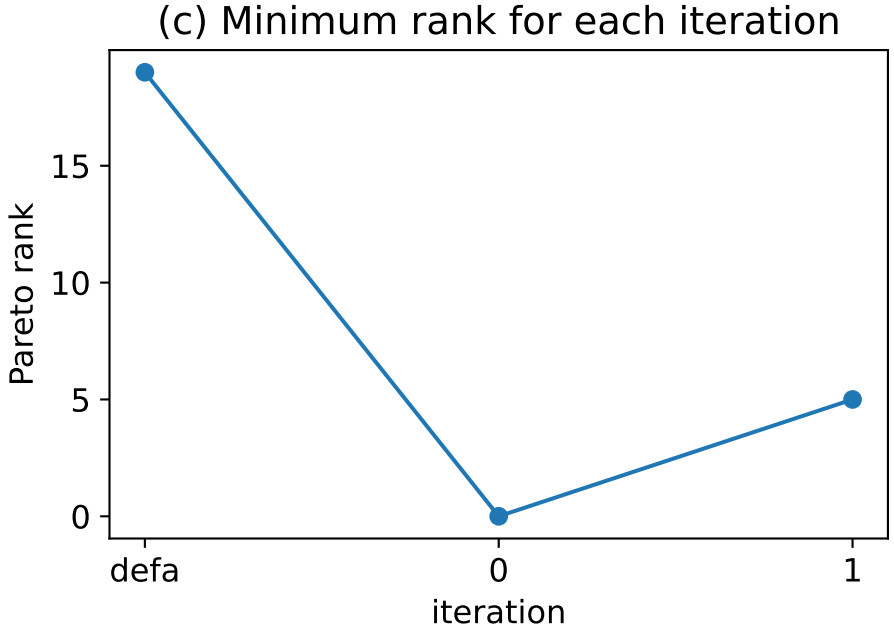




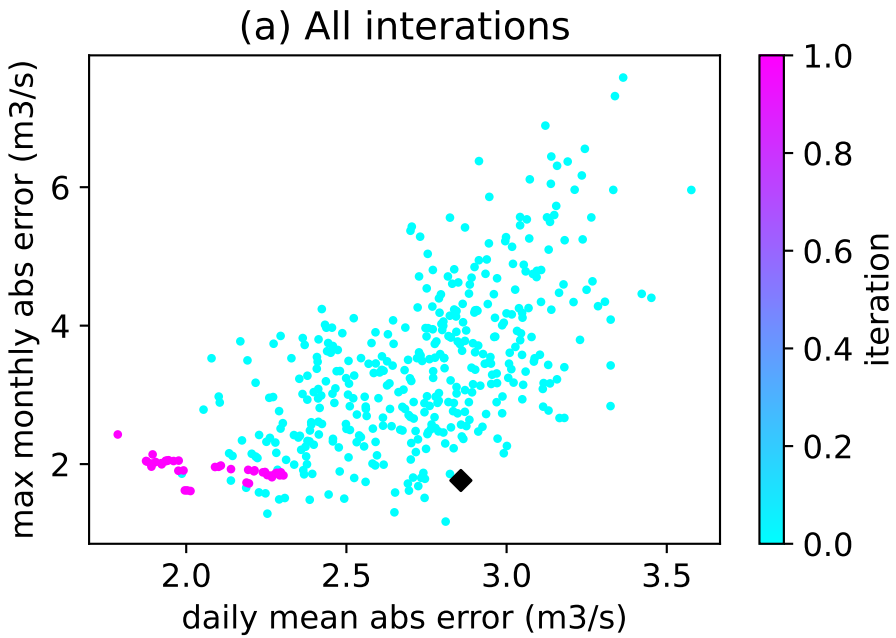
basinid: 109
hru_id: 2102908
lat_cen: 35.15365
lon_cen: -79.20346
AREA: 20.06 km2
elev_mean: 98.94 m

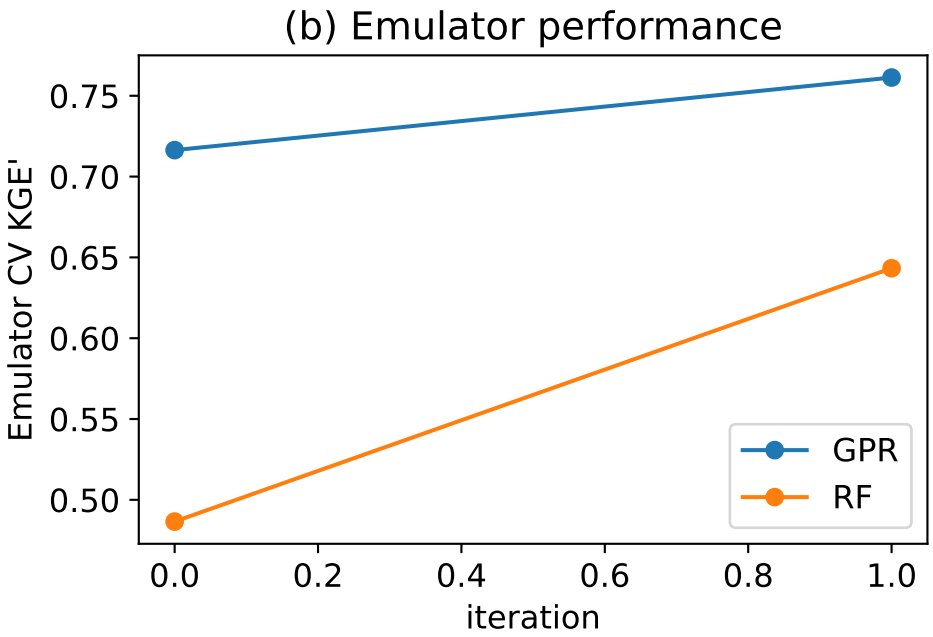


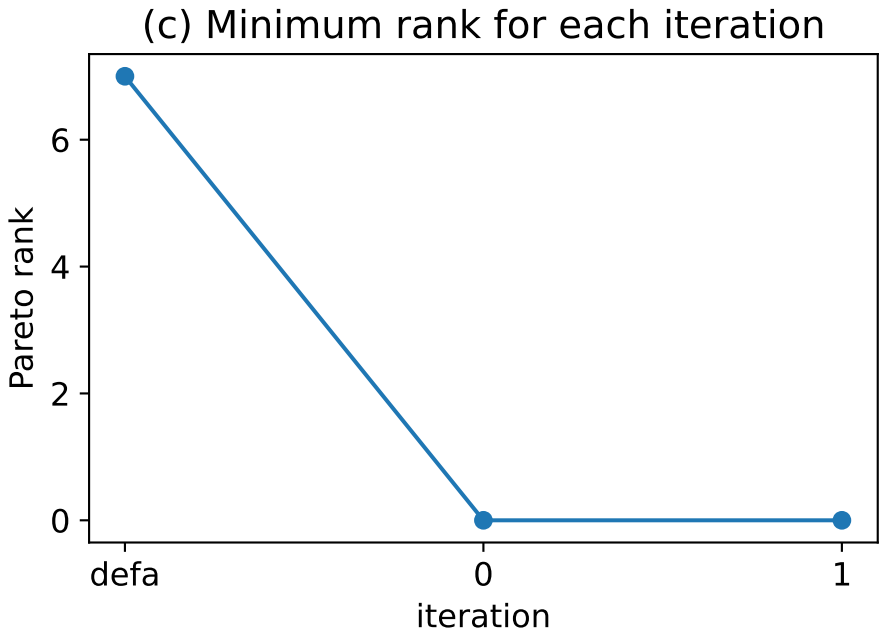




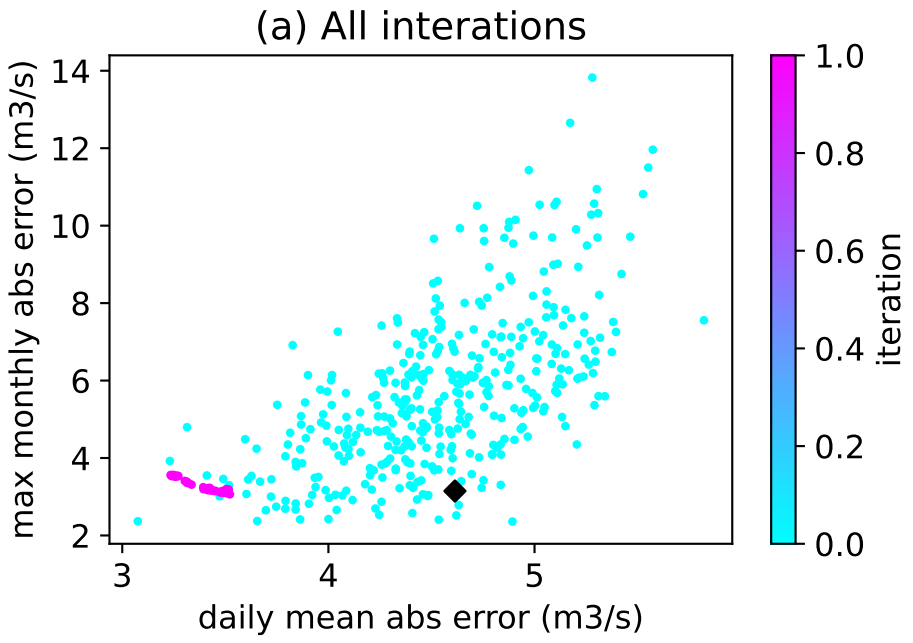
basinid: 110
hru_id: 2108000
lat_cen: 35.03089
lon_cen: -77.93157
AREA: 1566.83 km2
elev_mean: 32.73 m

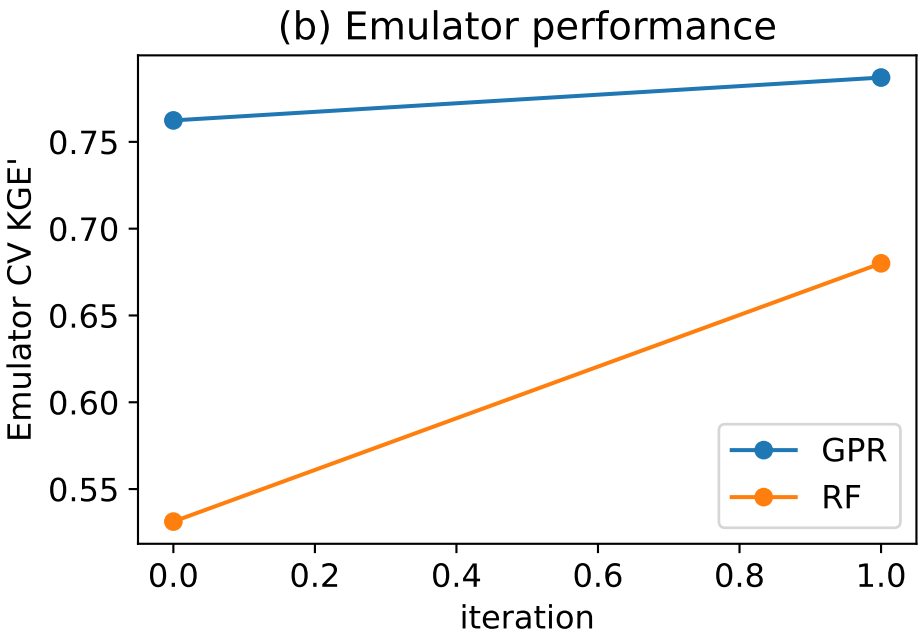


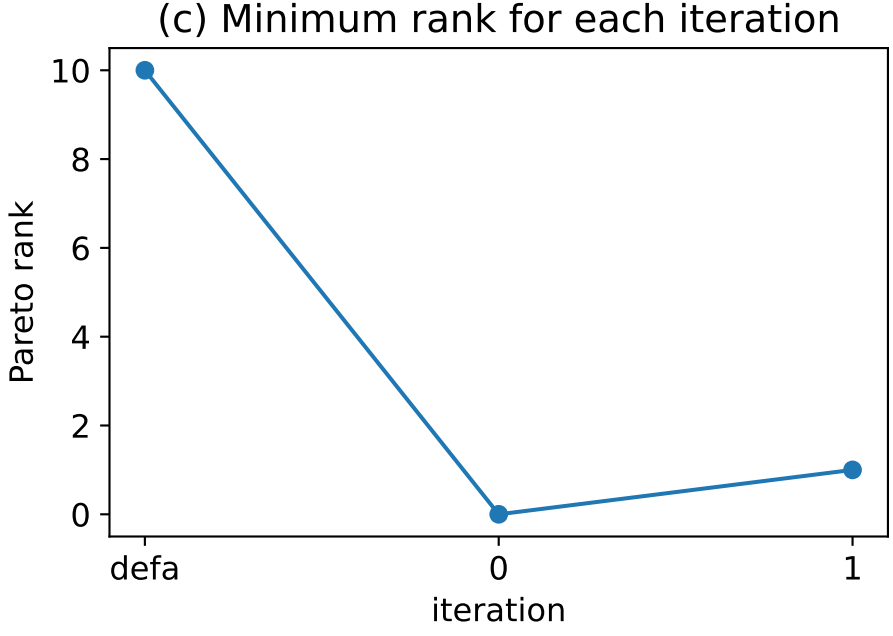




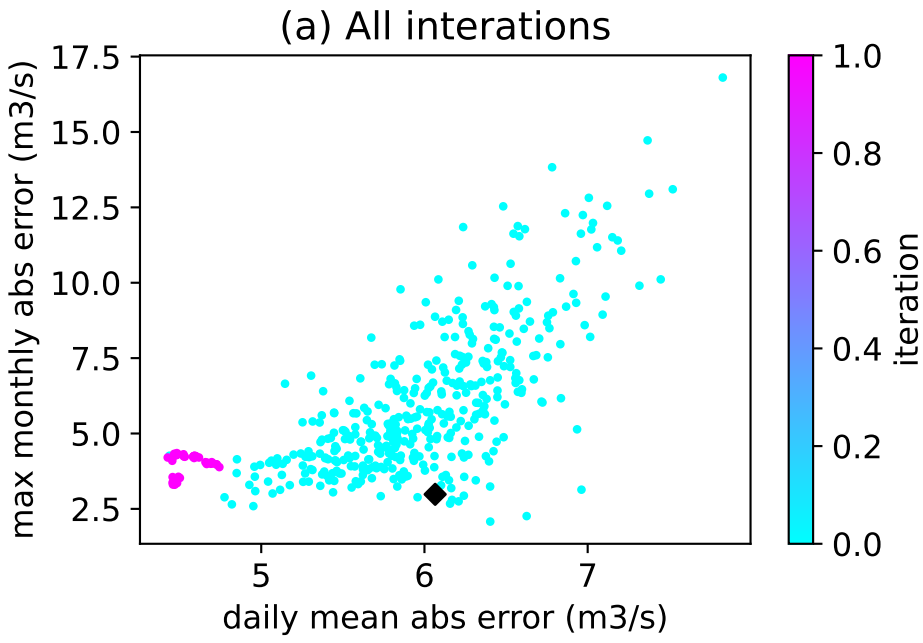
basinid: 111
hru_id: 2111180
lat_cen: 36.15054
lon_cen: -81.51122
AREA: 130.87 km2
elev_mean: 637.28 m

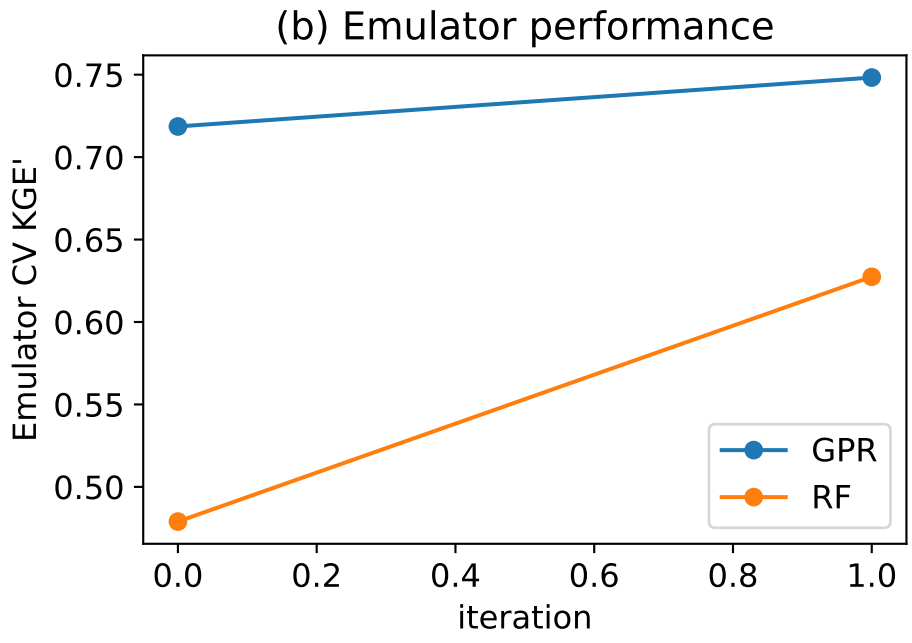


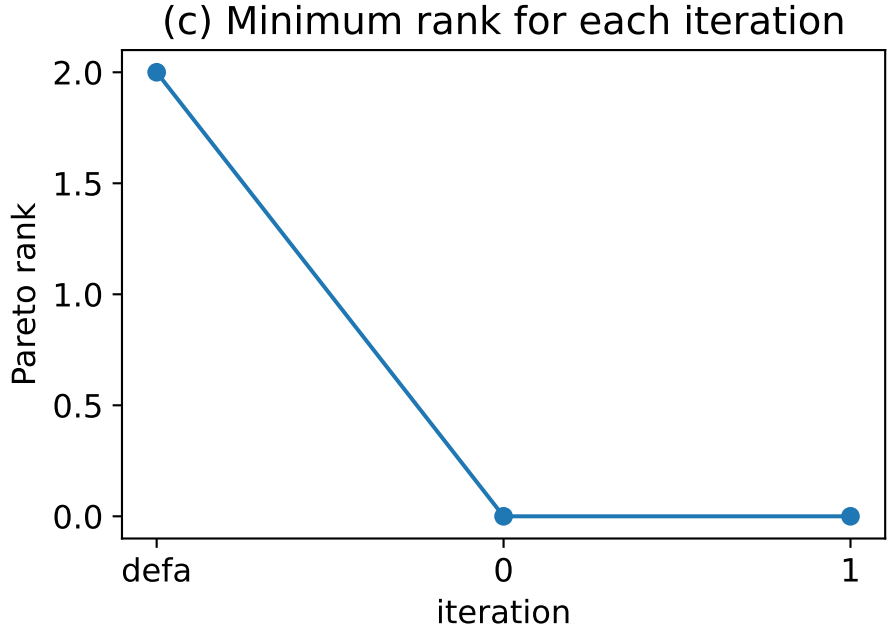




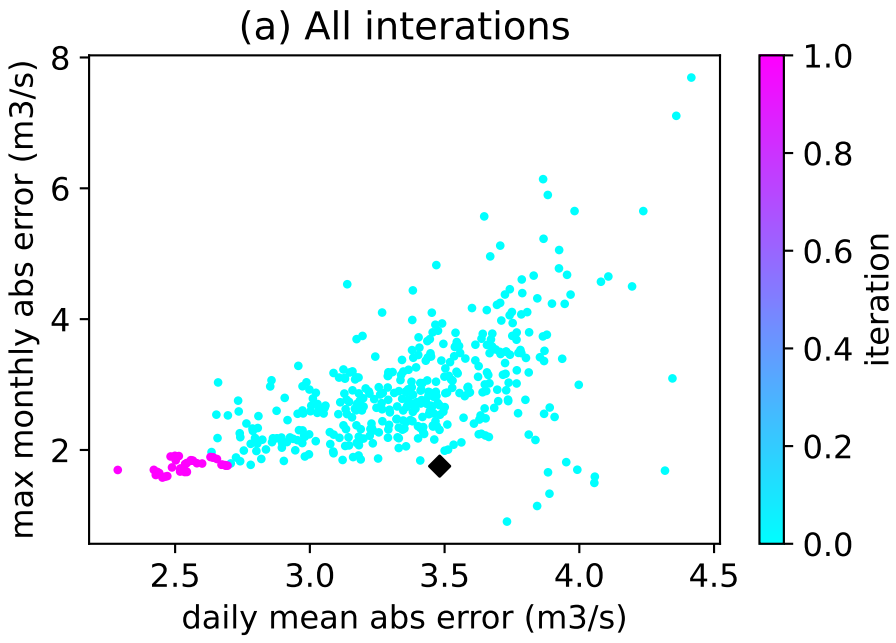
basinid: 112
hru_id: 2111500
lat_cen: 36.27627
lon_cen: -81.27746
AREA: 233.35 km2
elev_mean: 563.41 m

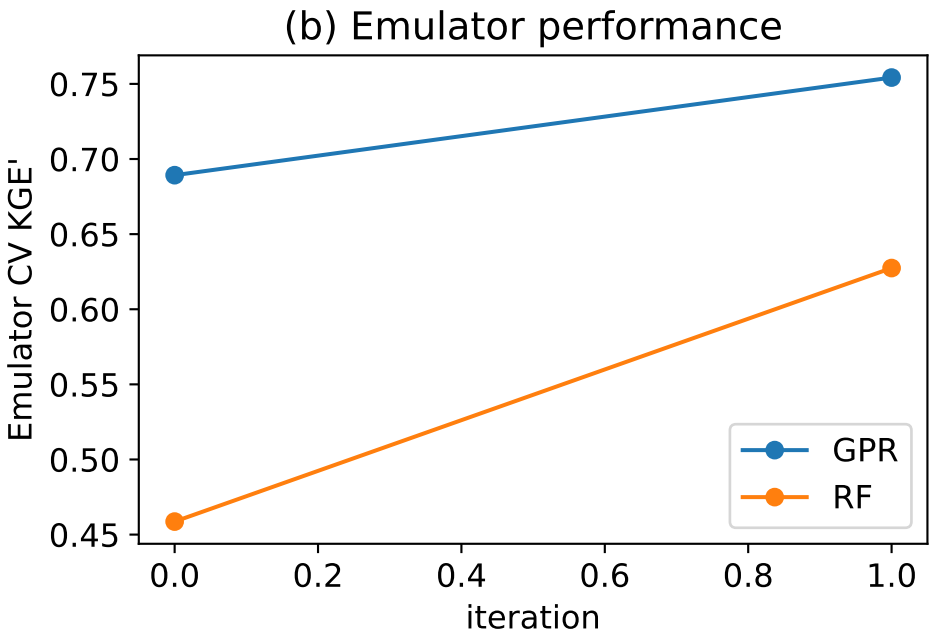


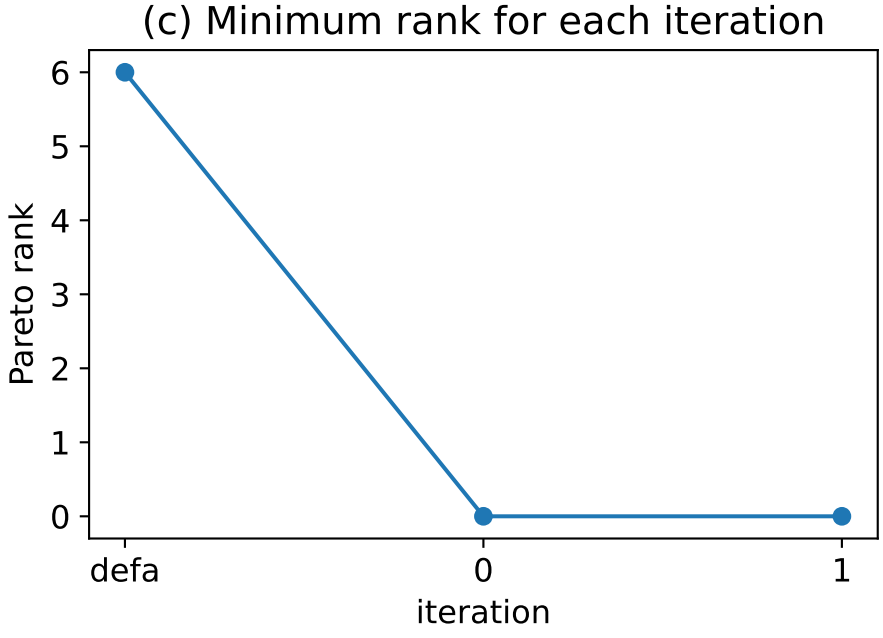




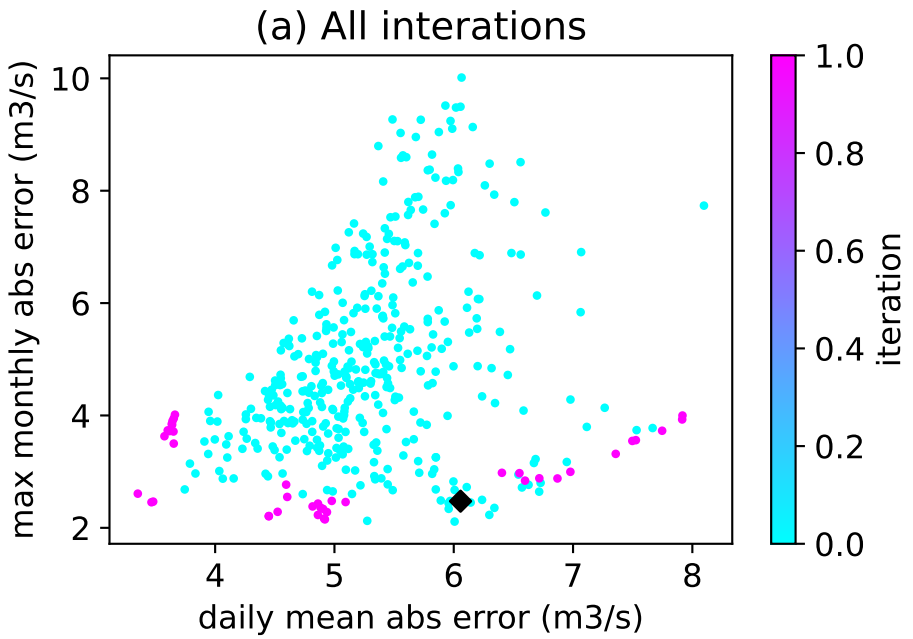
basinid: 113
hru_id: 2112120
lat_cen: 36.34773
lon_cen: -81.09049
AREA: 329.80 km2
elev_mean: 527.91 m

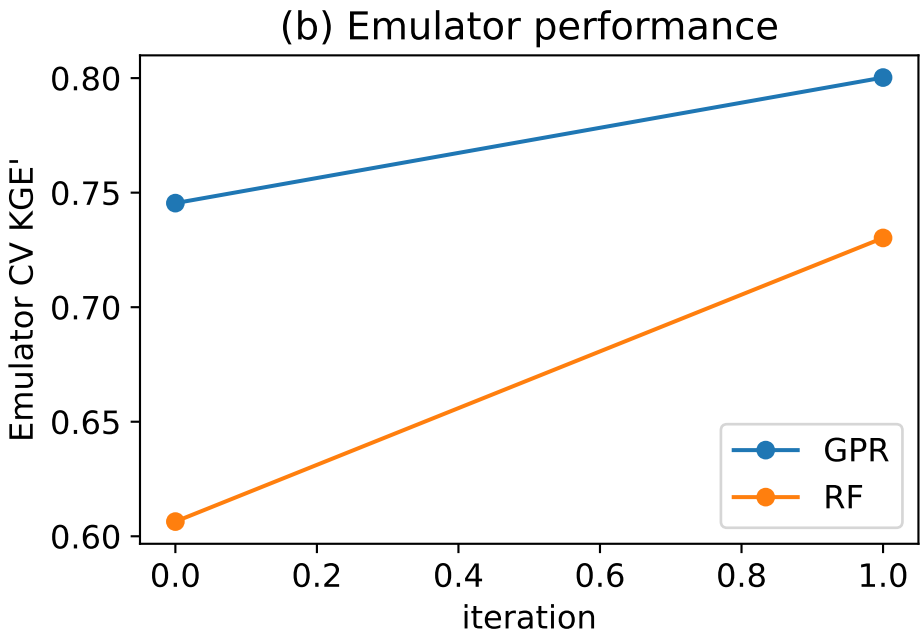


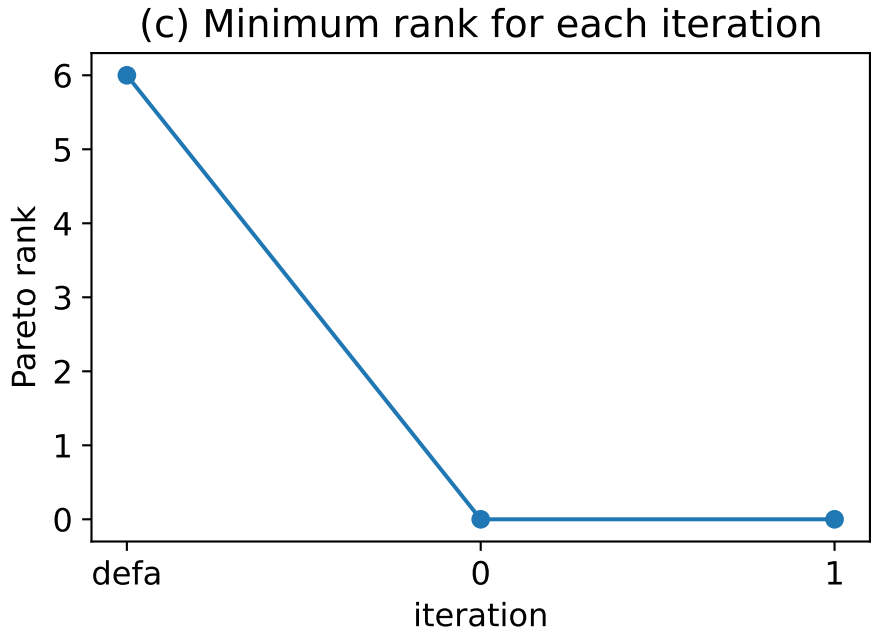




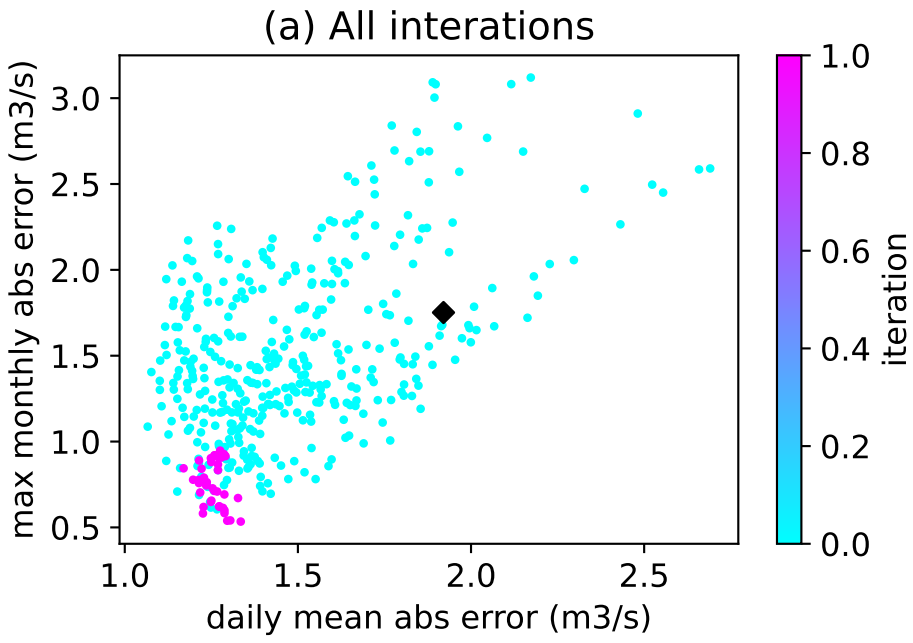
basinid: 114
hru_id: 2112360
lat_cen: 36.40685
lon_cen: -80.89124
AREA: 206.82 km2
elev_mean: 482.80 m

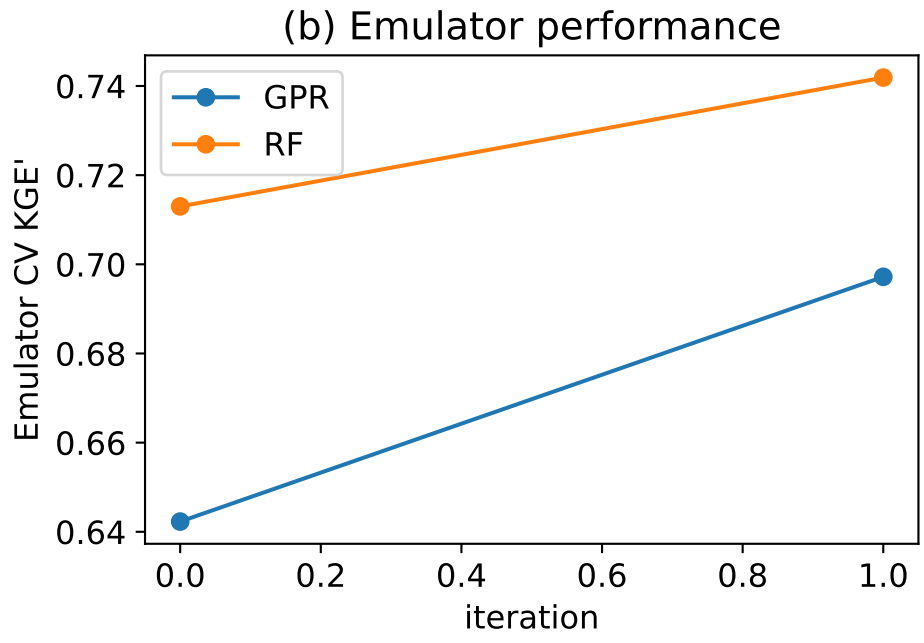


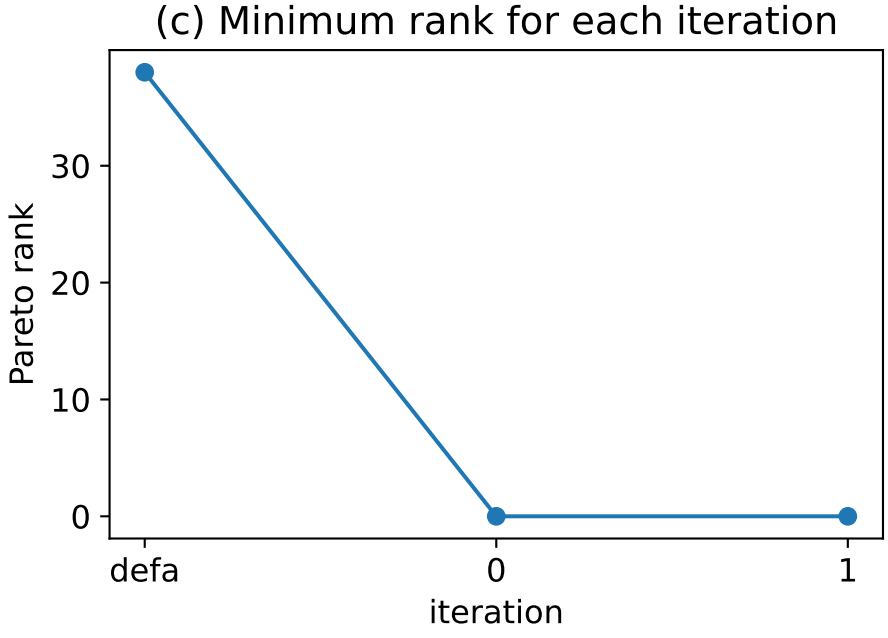




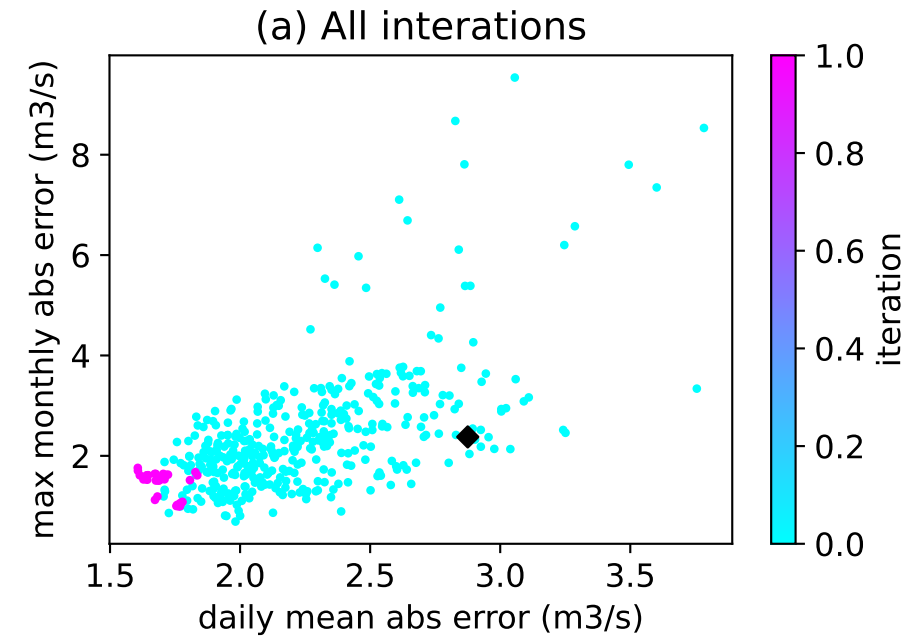
basinid: 115
hru_id: 2118500
lat_cen: 36.08394
lon_cen: -80.90133
AREA: 400.53 km2
elev_mean: 359.48 m

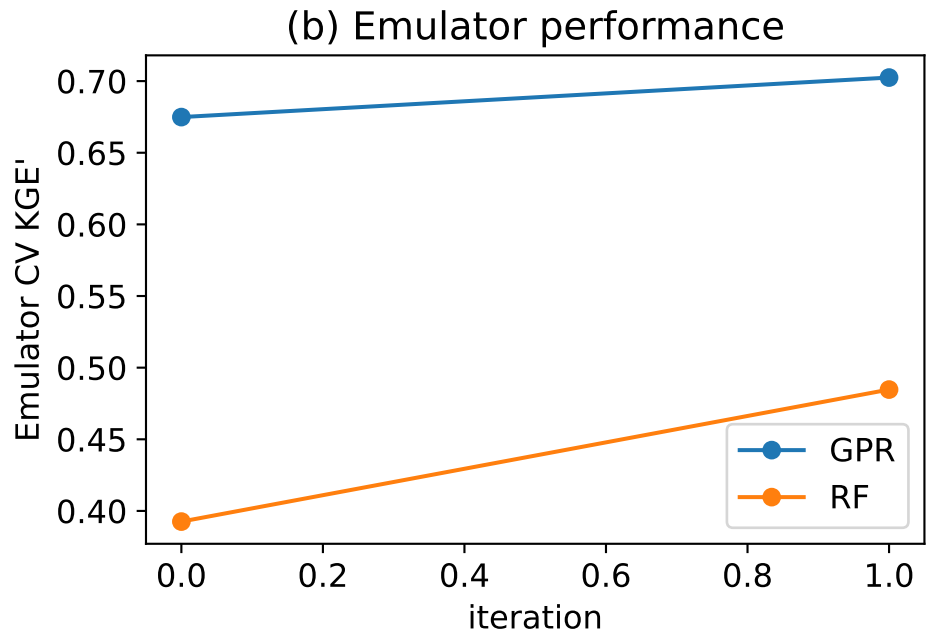


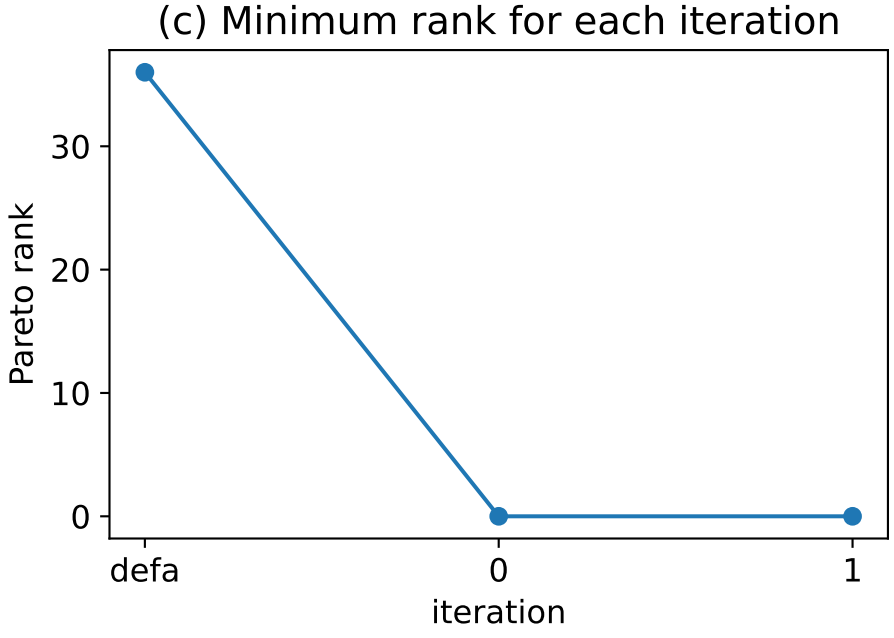




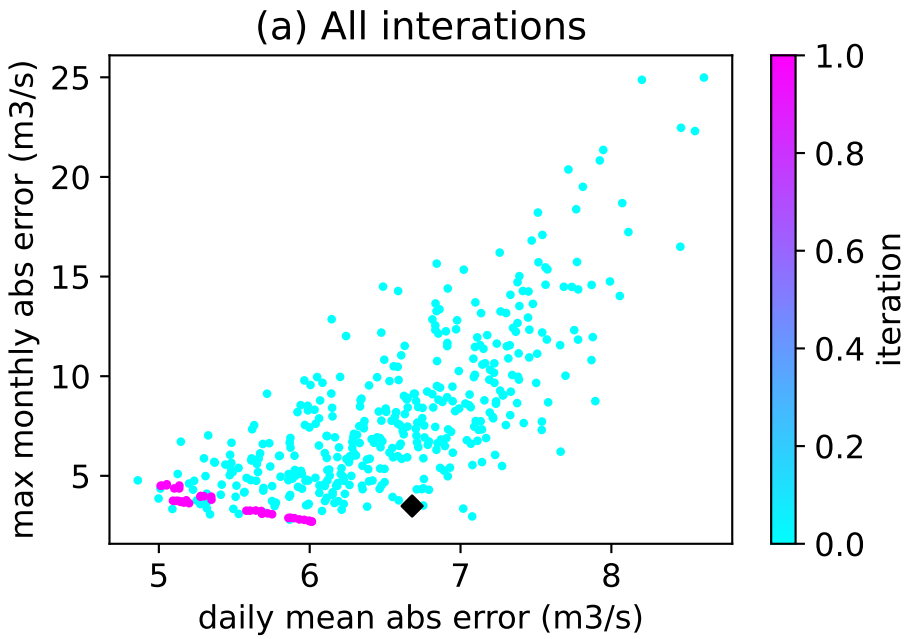
basinid: 116
hru_id: 2125000
lat_cen: 35.39405
lon_cen: -80.35288
AREA: 145.08 km2
elev_mean: 196.97 m

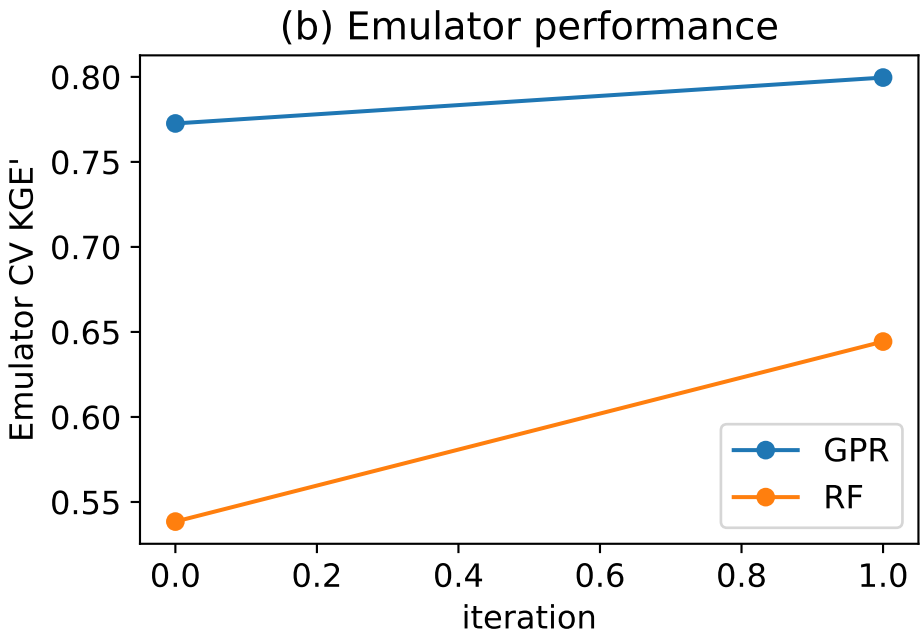


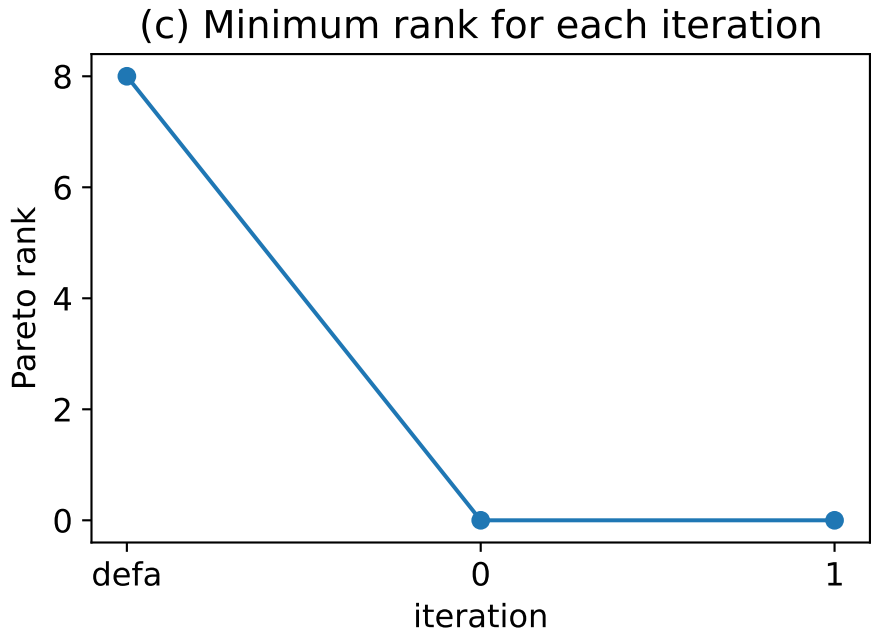




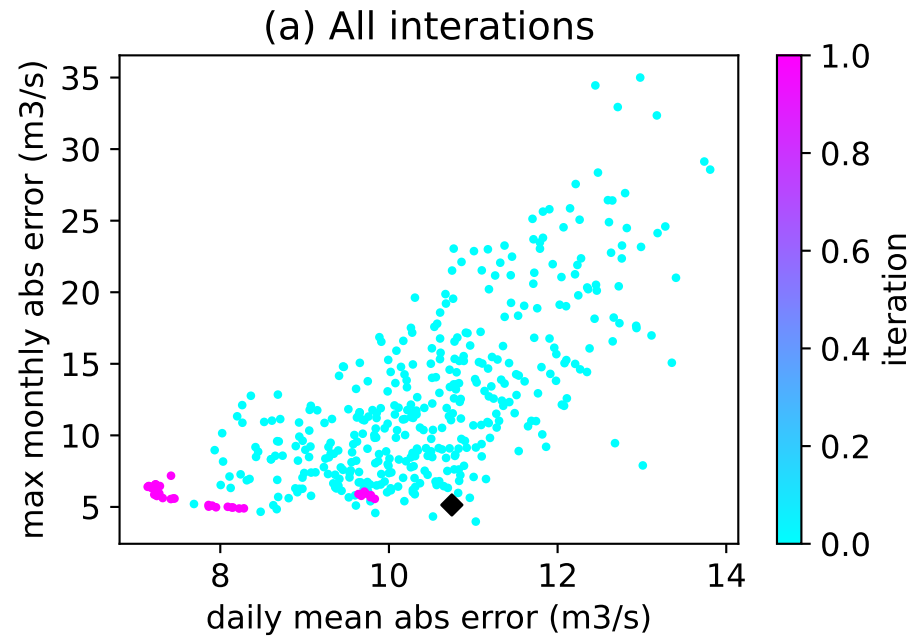
basinid: 117
hru_id: 2128000
lat_cen: 35.52624
lon_cen: -79.83953
AREA: 272.00 km2
elev_mean: 218.68 m

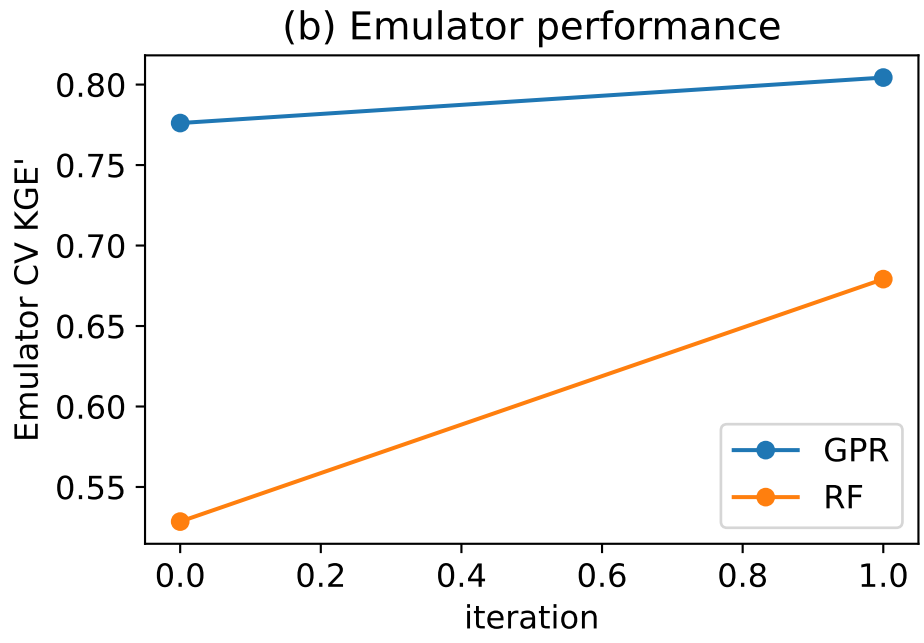


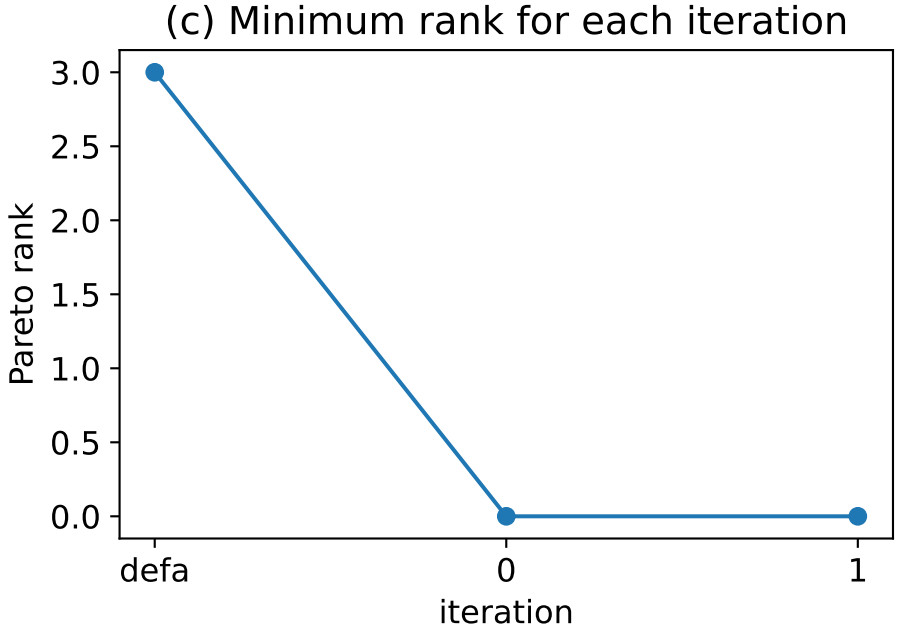




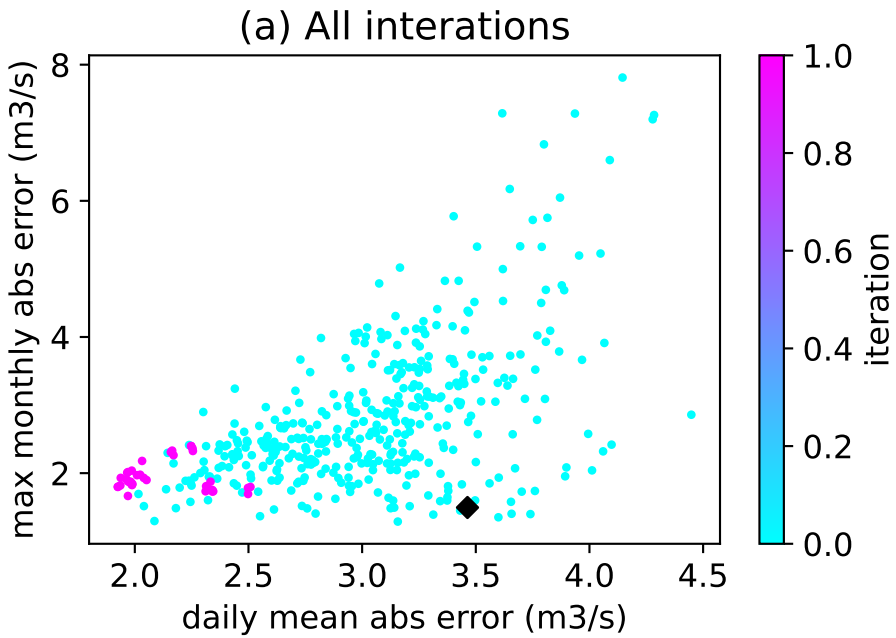
basinid: 118
hru_id: 2137727
lat_cen: 35.63735
lon_cen: -82.17798
AREA: 329.31 km2
elev_mean: 661.70 m

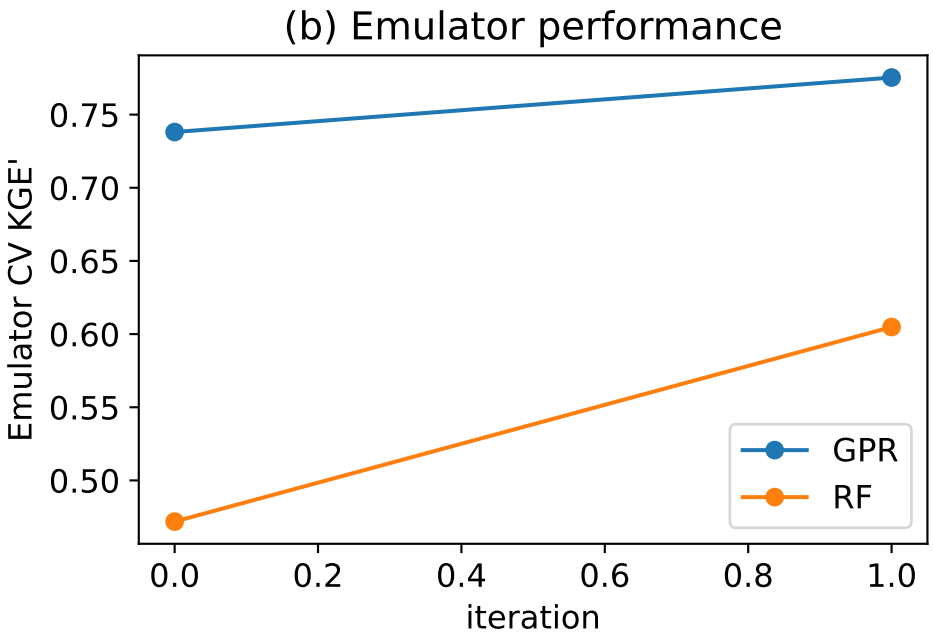


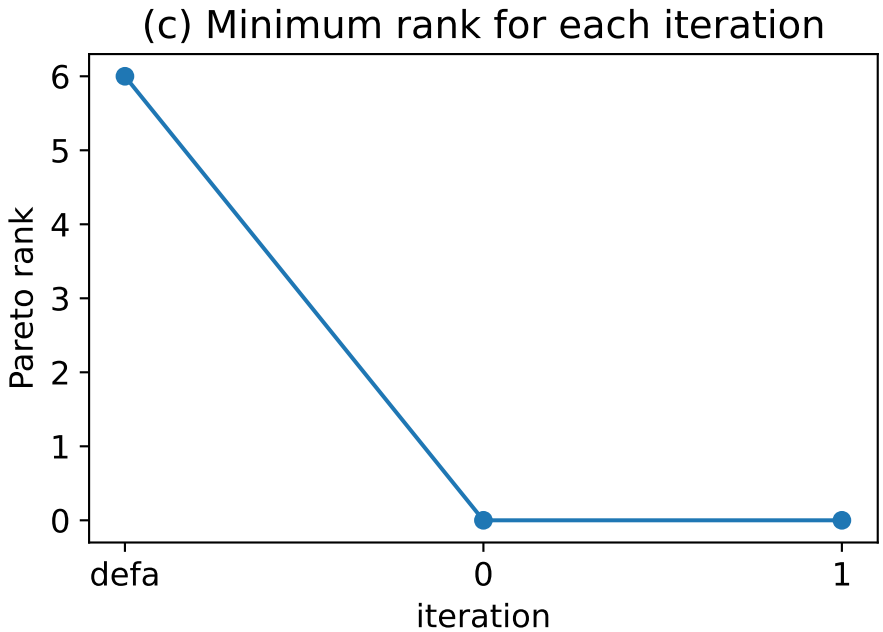




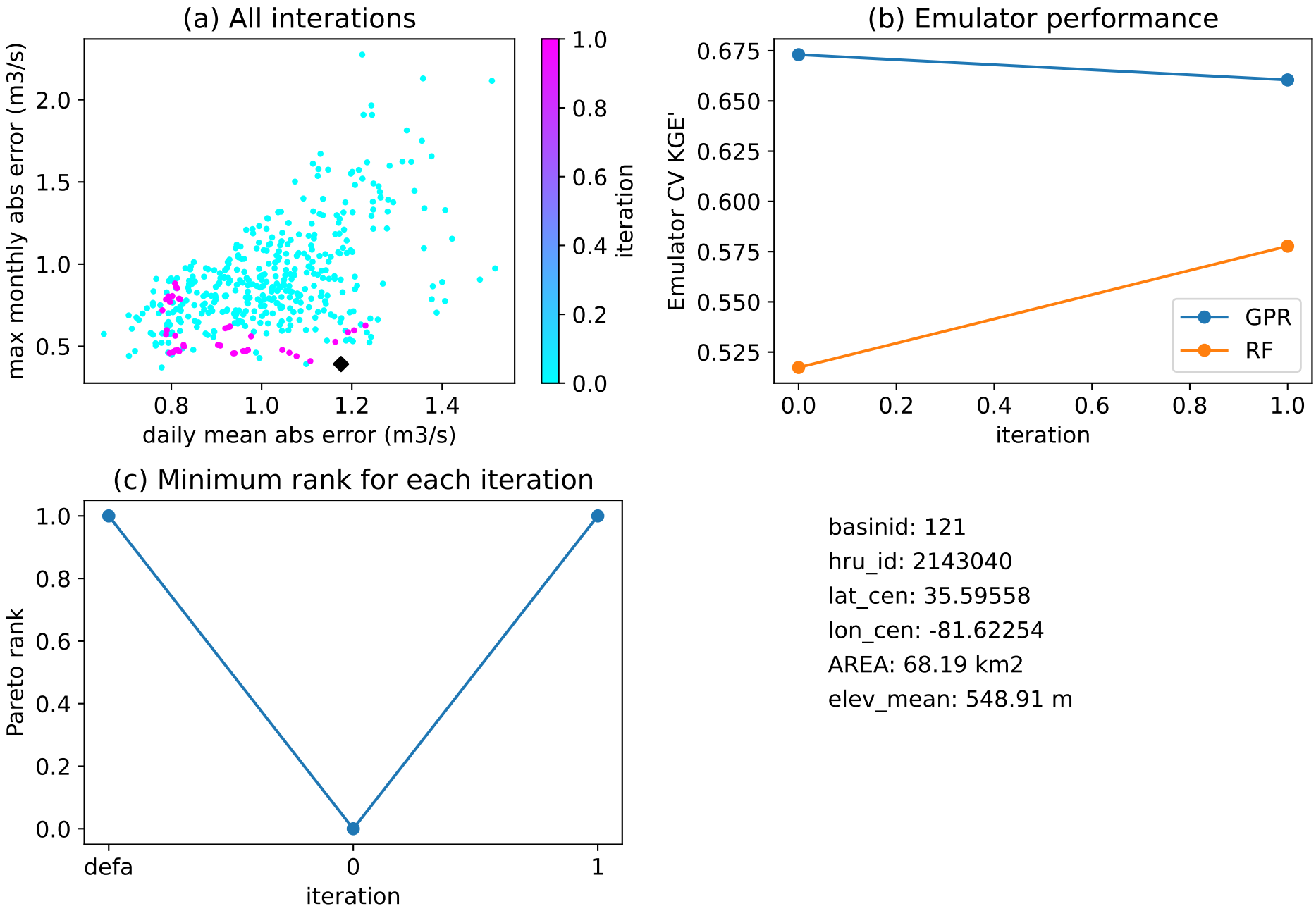
basinid: 119
hru_id: 2140991
lat_cen: 36.00279
lon_cen: -81.72571
AREA: 522.12 km2
elev_mean: 632.10 m

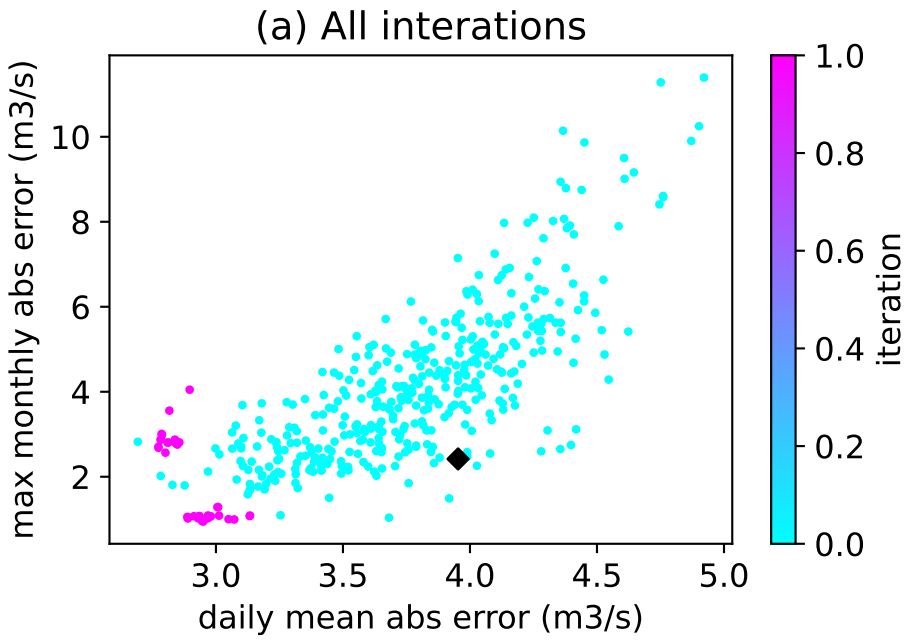


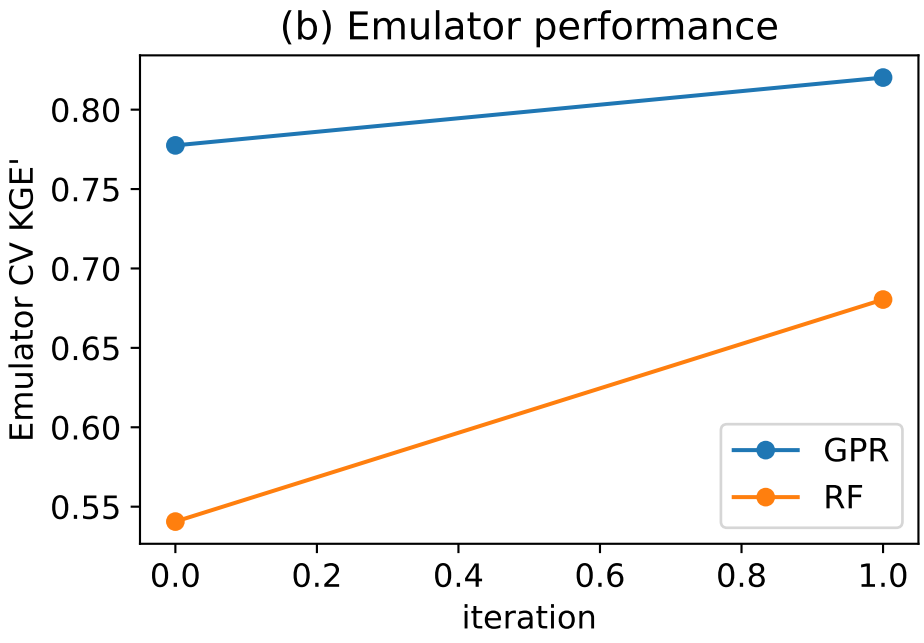


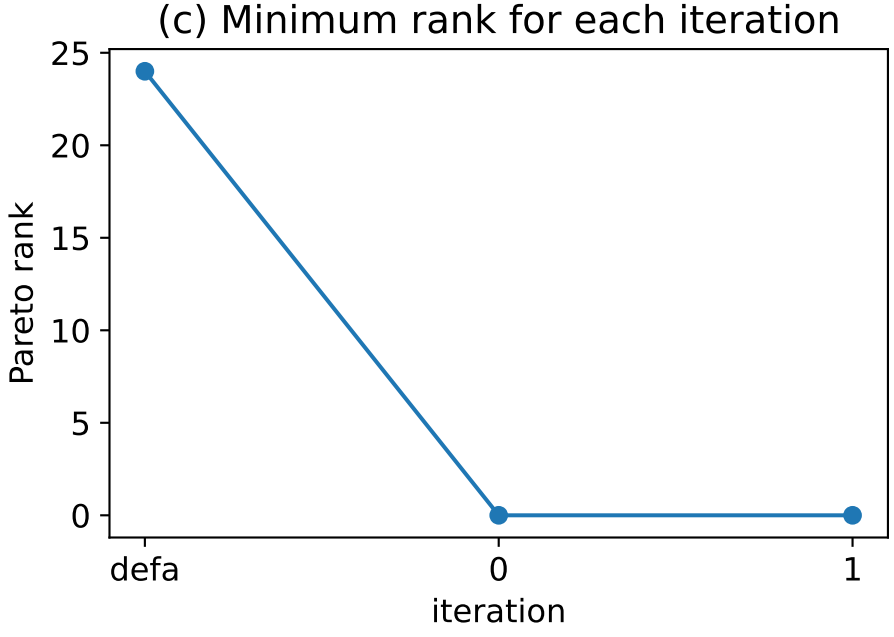


basinid: 120
hru_id: 2143000
lat_cen: 35.66546
lon_cen: -81.57067
AREA: 222.11 km2
elev_mean: 448.06 m

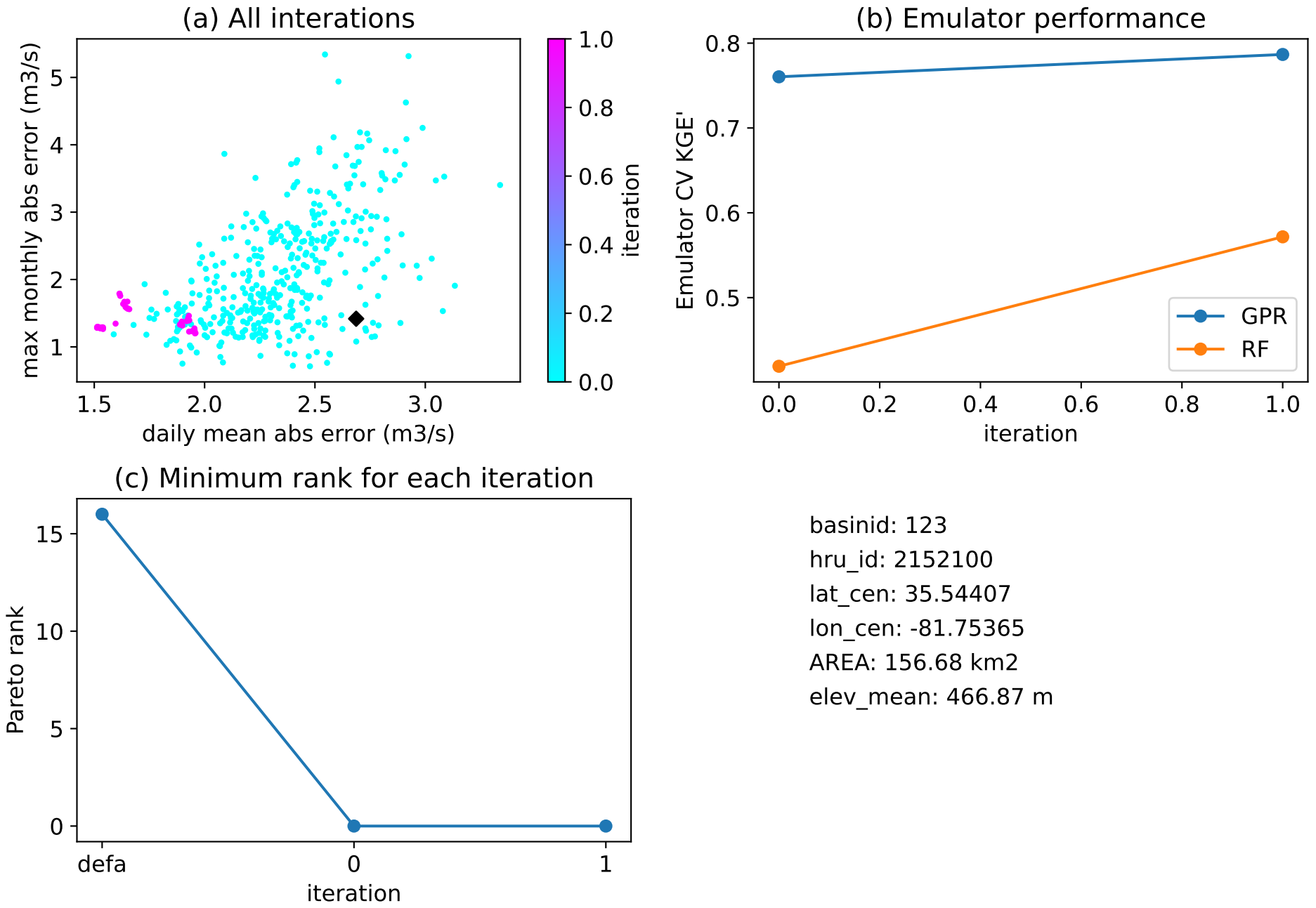

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 121
hru_id: 2143040
lat_cen: 35.59558
lon_cen: -81.62254
AREA: 68.19 km2
elev_mean: 548.91 m

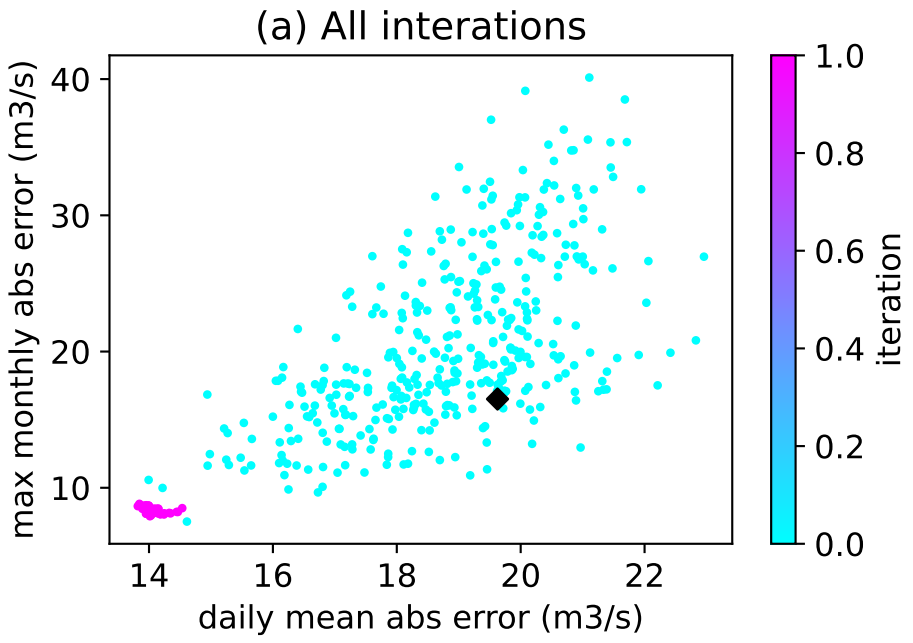


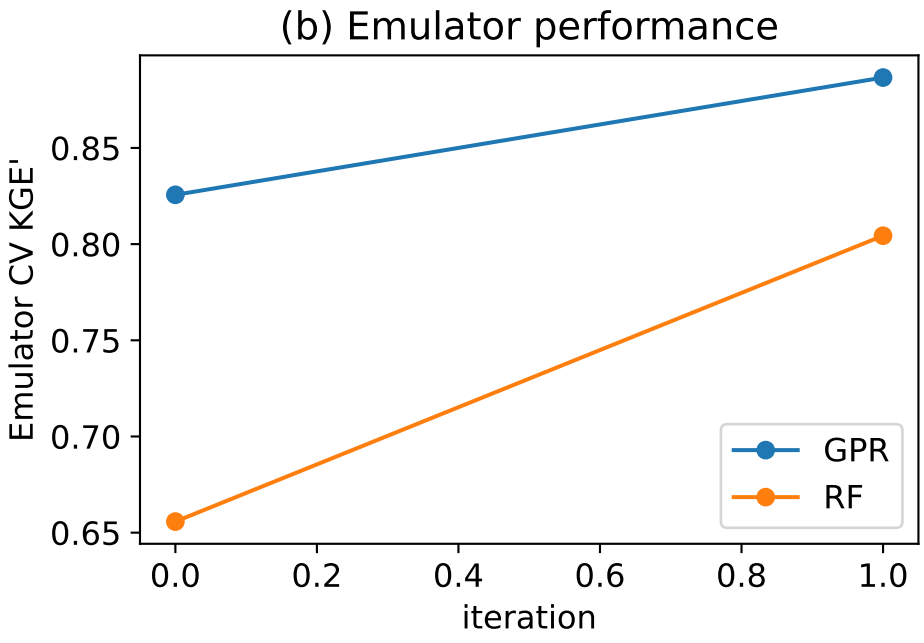


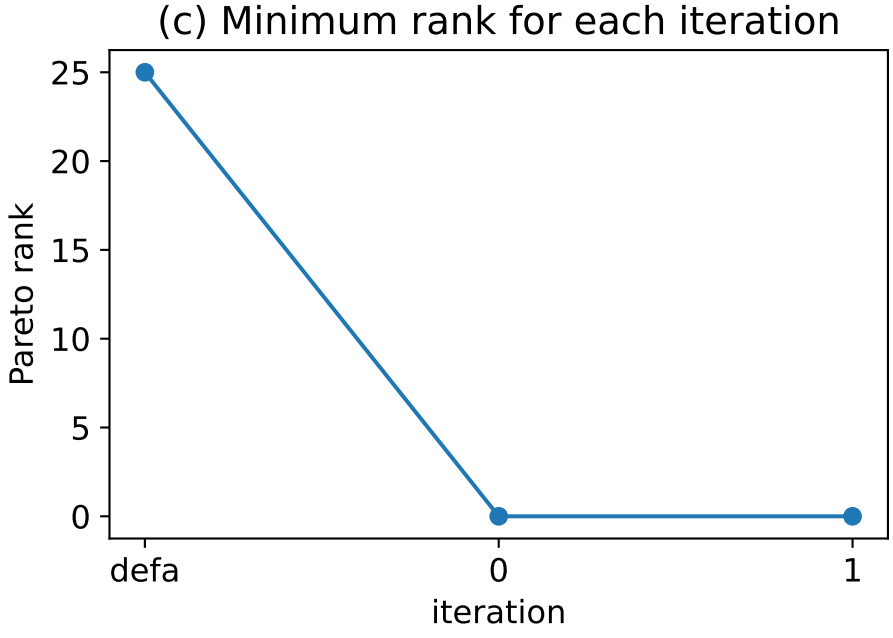


basinid: 122
hru_id: 2149000
lat_cen: 35.51801
lon_cen: -82.1143
AREA: 203.73 km2
elev_mean: 476.61 m

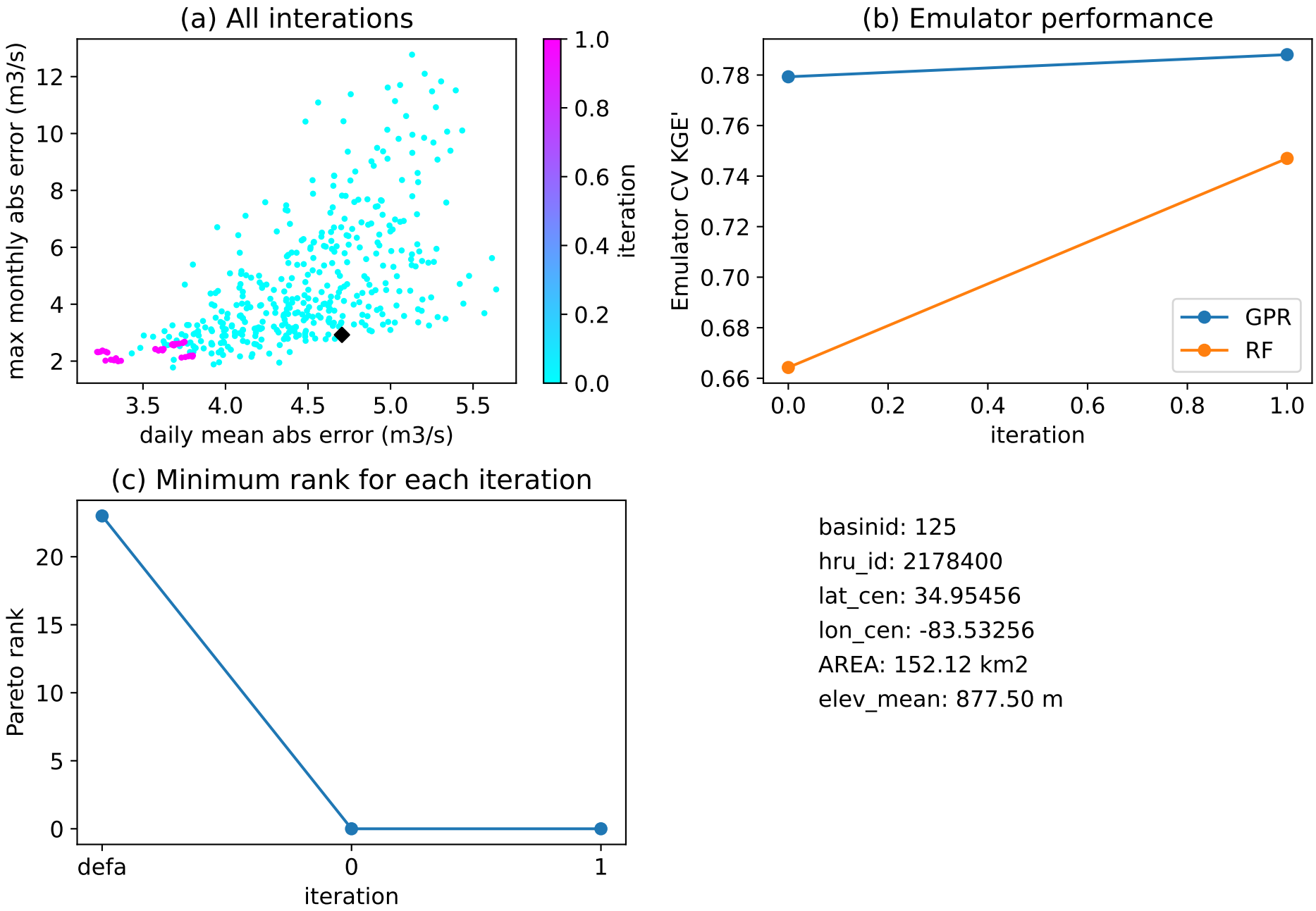

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 123
hru_id: 2152100
lat_cen: 35.54407
lon_cen: -81.75365
AREA: 156.68 km2
elev_mean: 466.87 m

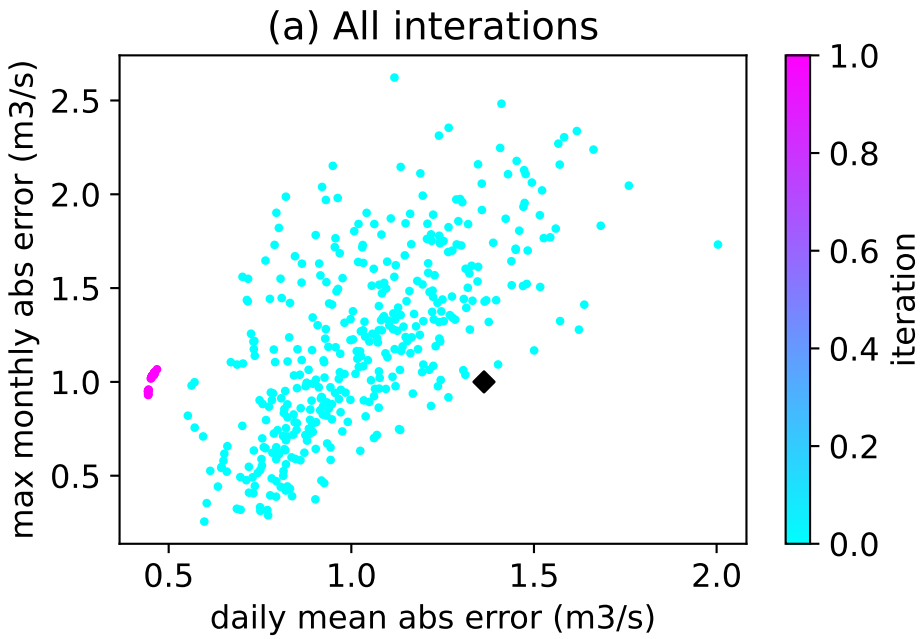


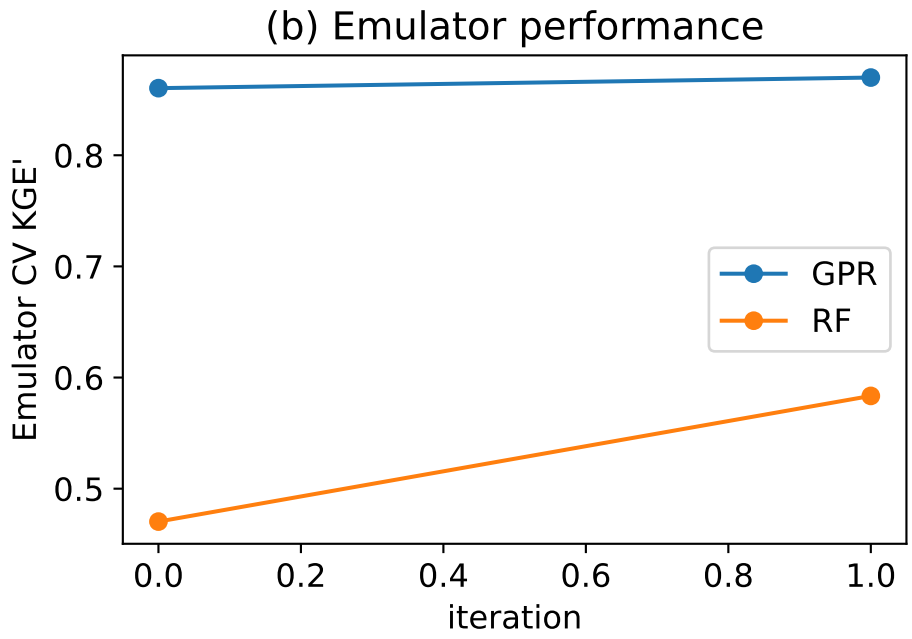


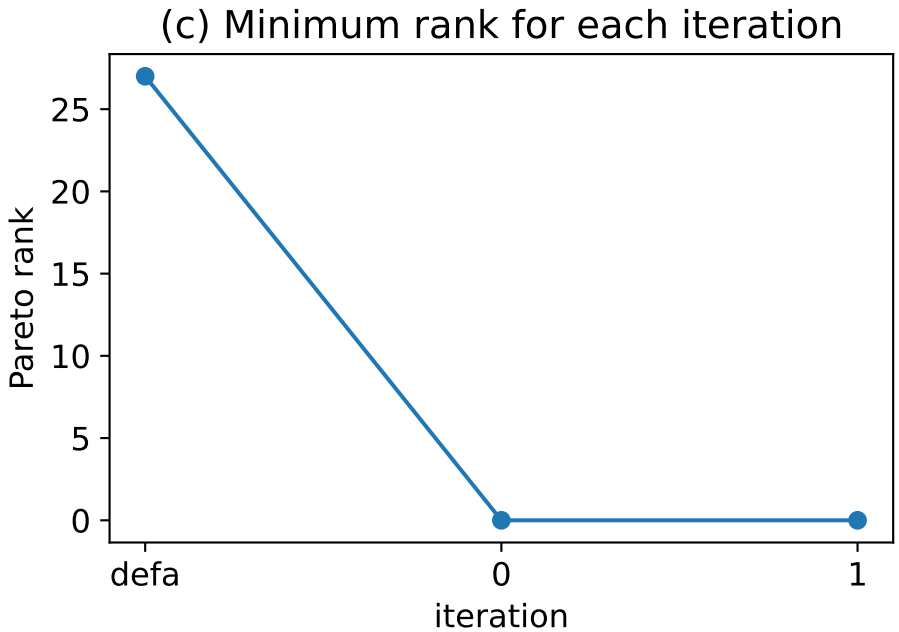


basinid: 124
hru_id: 2177000
lat_cen: 34.95726
lon_cen: -83.20273
AREA: 527.24 km2
elev_mean: 763.70 m

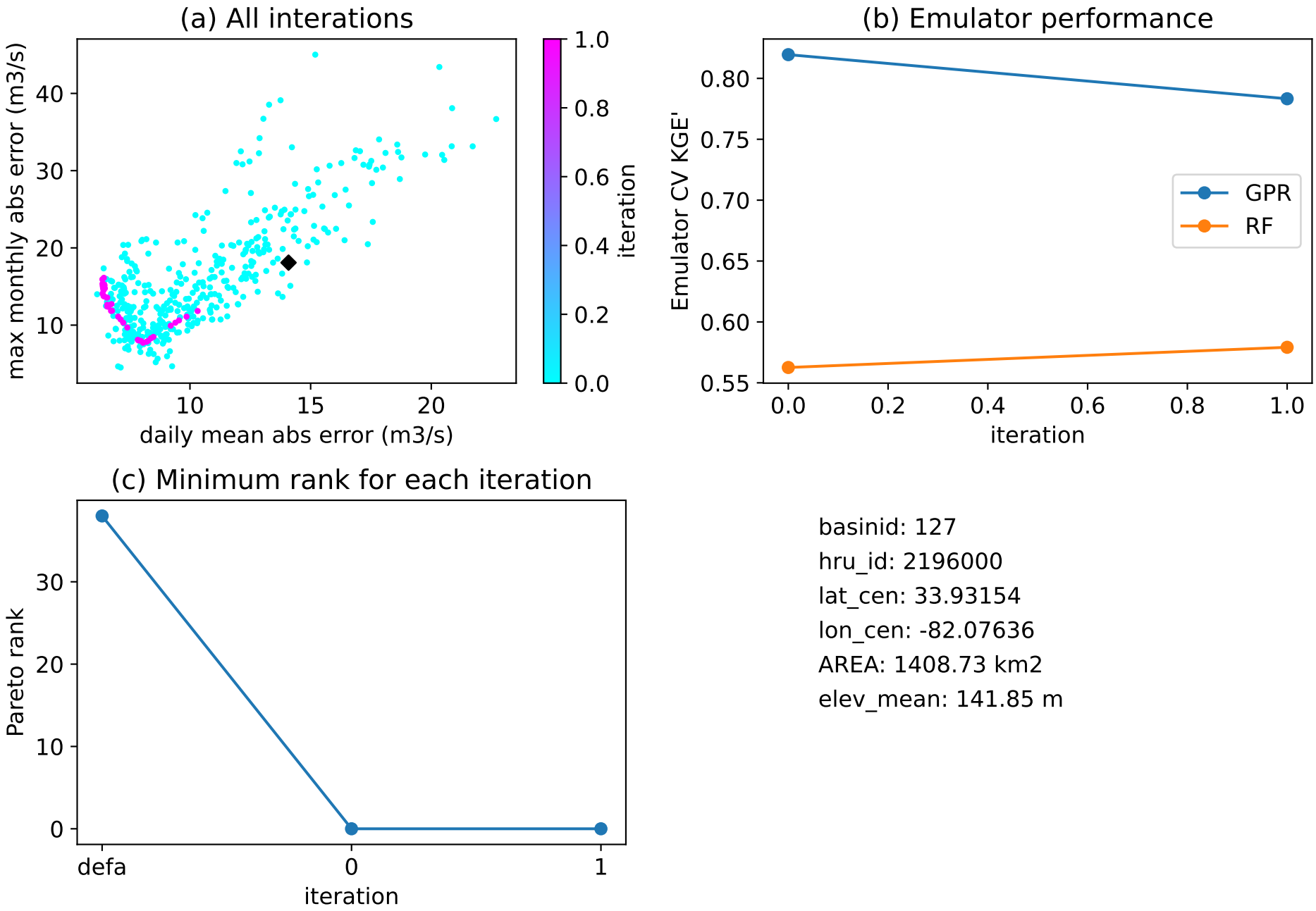

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 125
hru_id: 2178400
lat_cen: 34.95456
lon_cen: -83.53256
AREA: 152.12 km2
elev_mean: 877.50 m

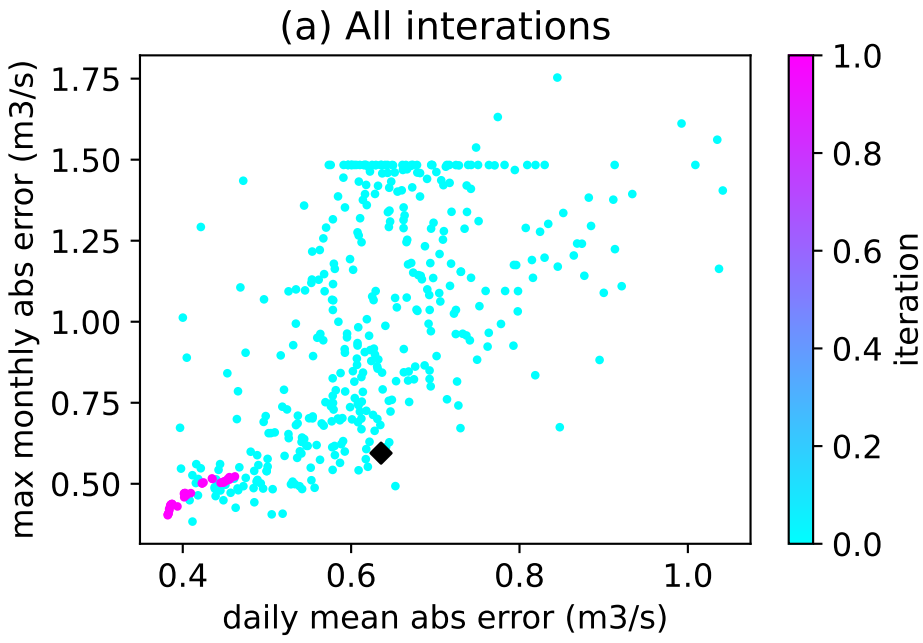


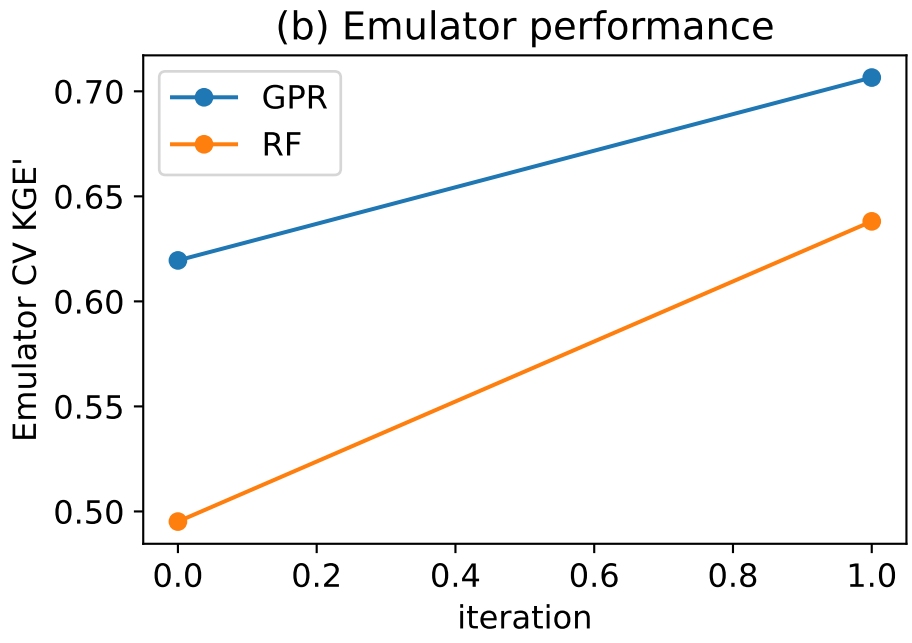


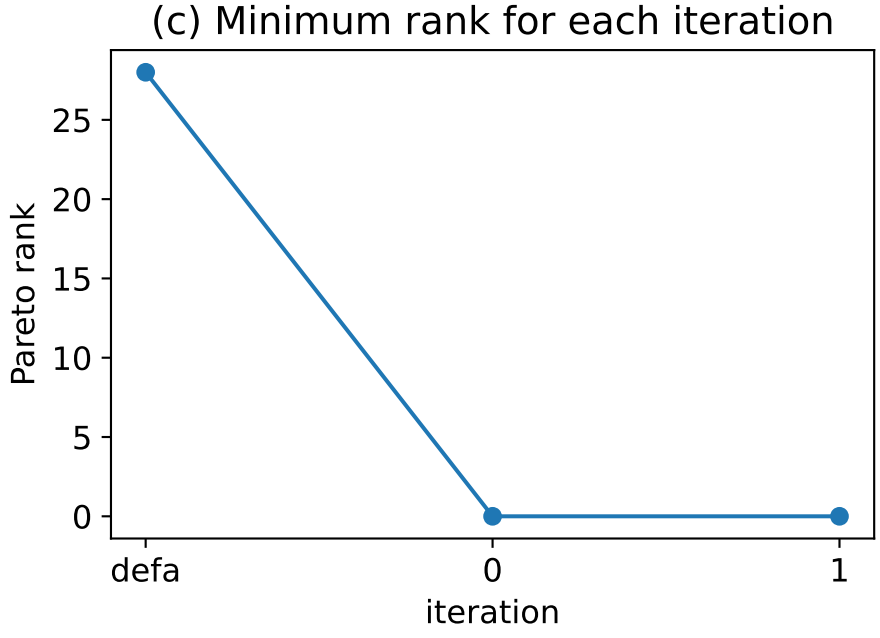


basinid: 126
hru_id: 2193340
lat_cen: 33.72247
lon_cen: -82.91338
AREA: 89.61 km2
elev_mean: 168.64 m

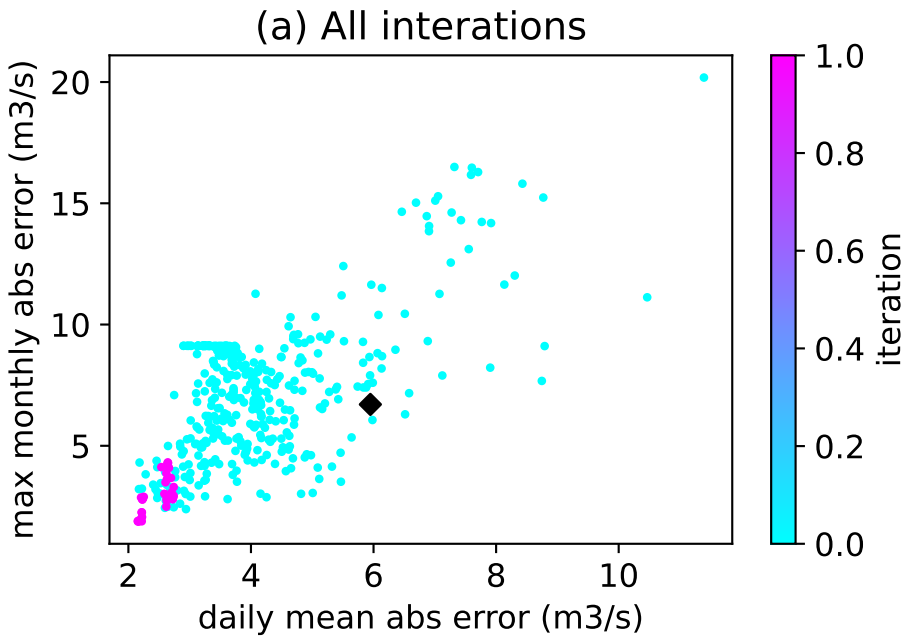

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 127
hru_id: 2196000
lat_cen: 33.93154
lon_cen: -82.07636
AREA: 1408.73 km2
elev_mean: 141.85 m

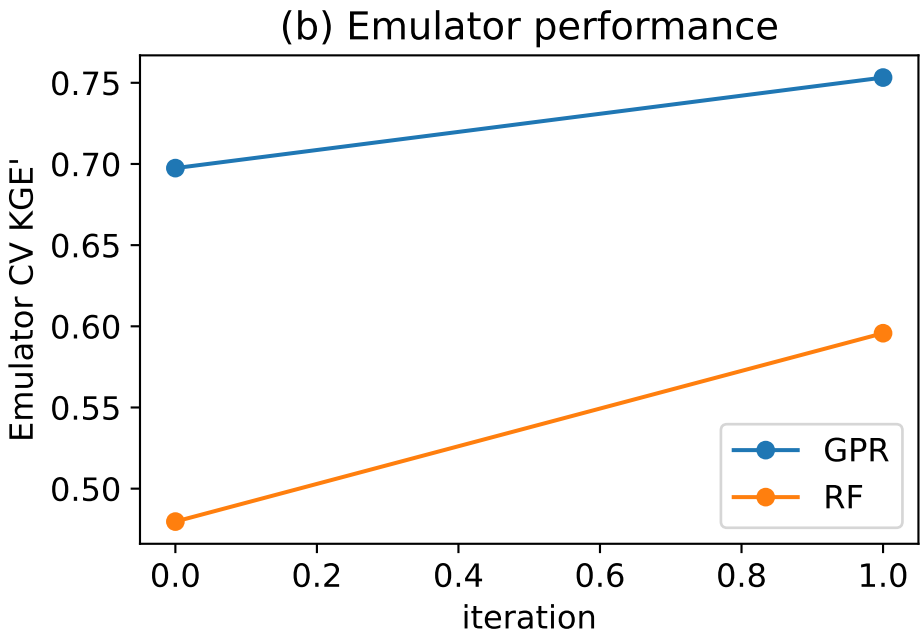


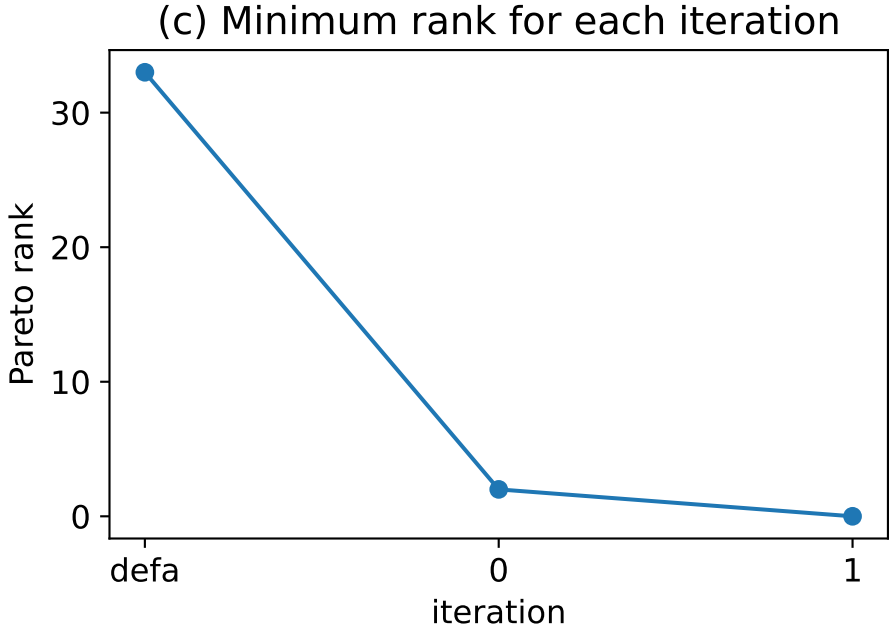




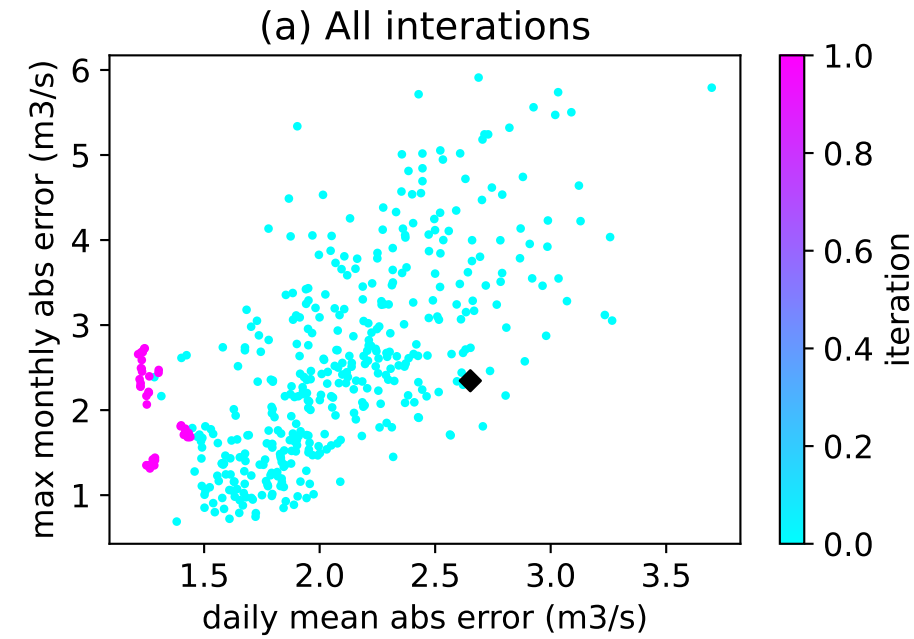
basinid: 128
hru_id: 2198100
lat_cen: 32.96411
lon_cen: -81.87391
AREA: 79.75 km2
elev_mean: 83.14 m

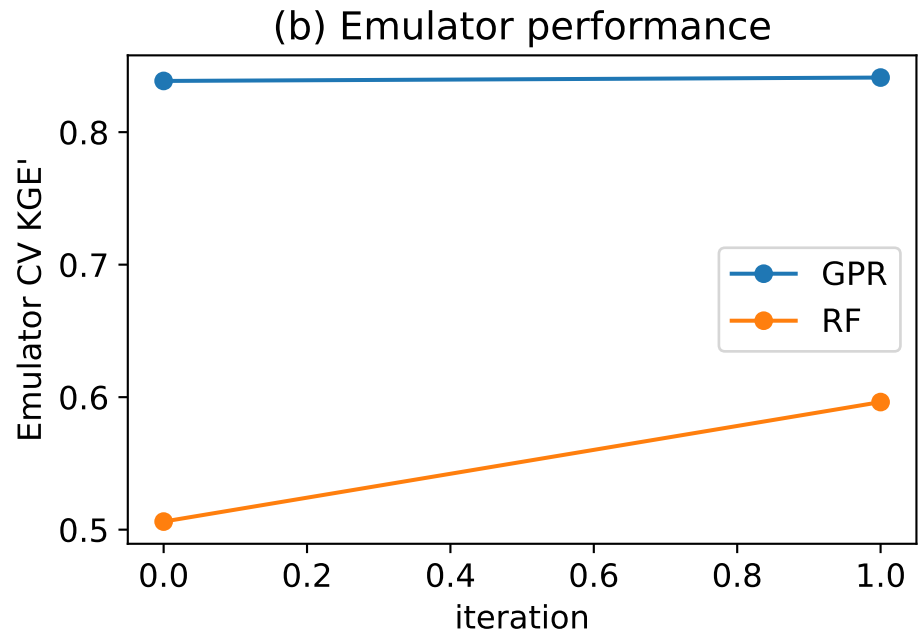


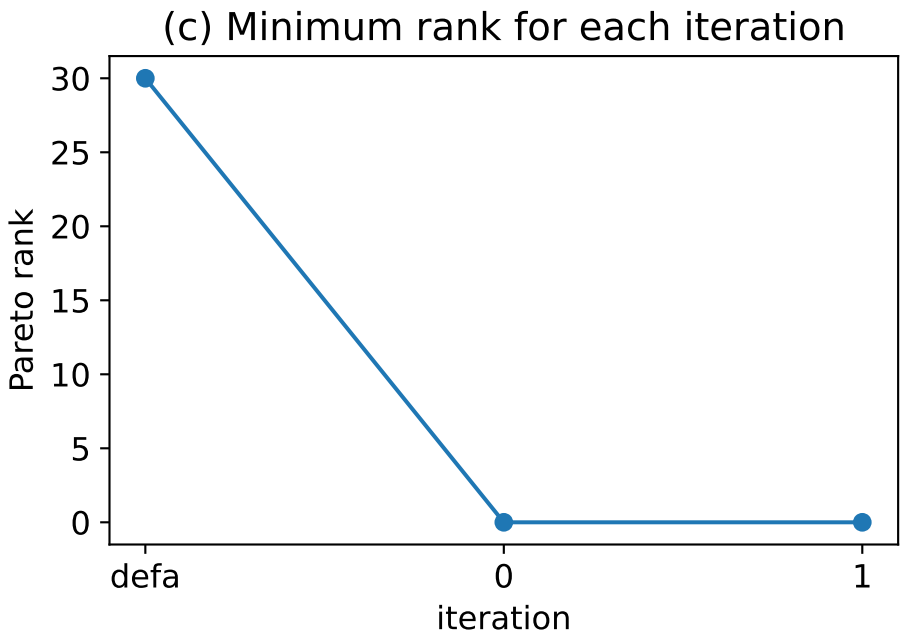




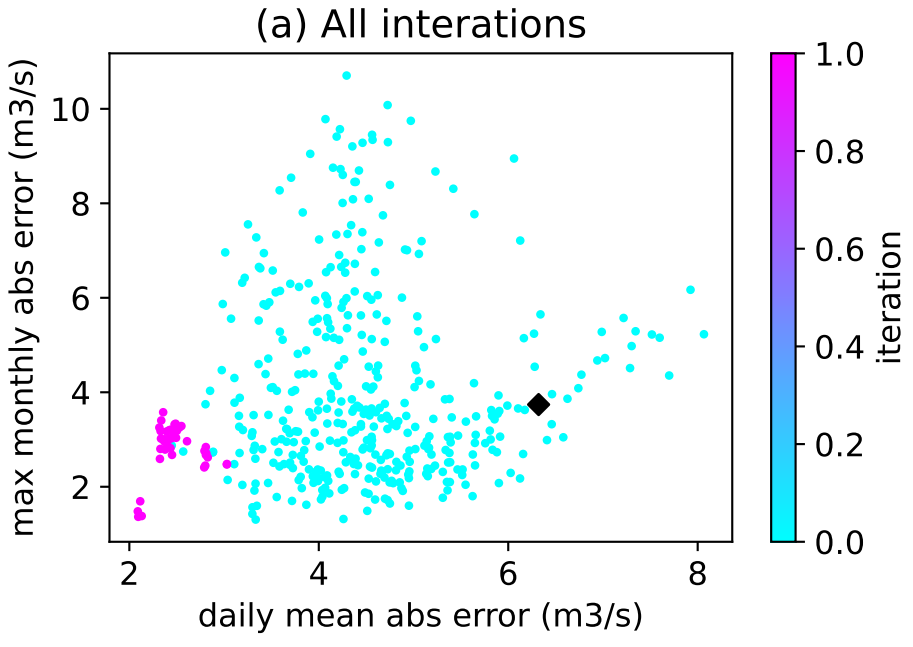
basinid: 129
hru_id: 2202600
lat_cen: 32.27786
lon_cen: -81.63132
AREA: 623.35 km2
elev_mean: 35.21 m

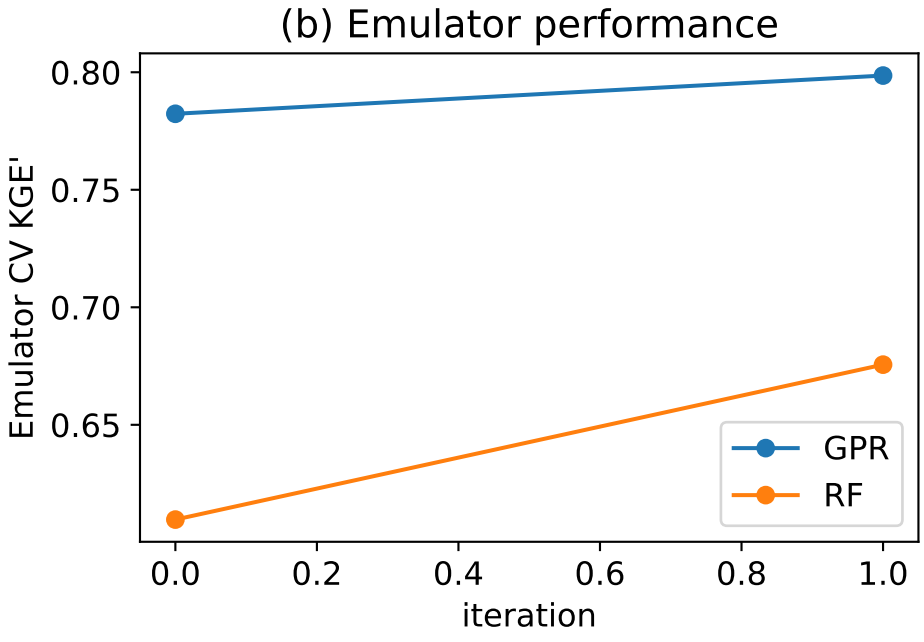


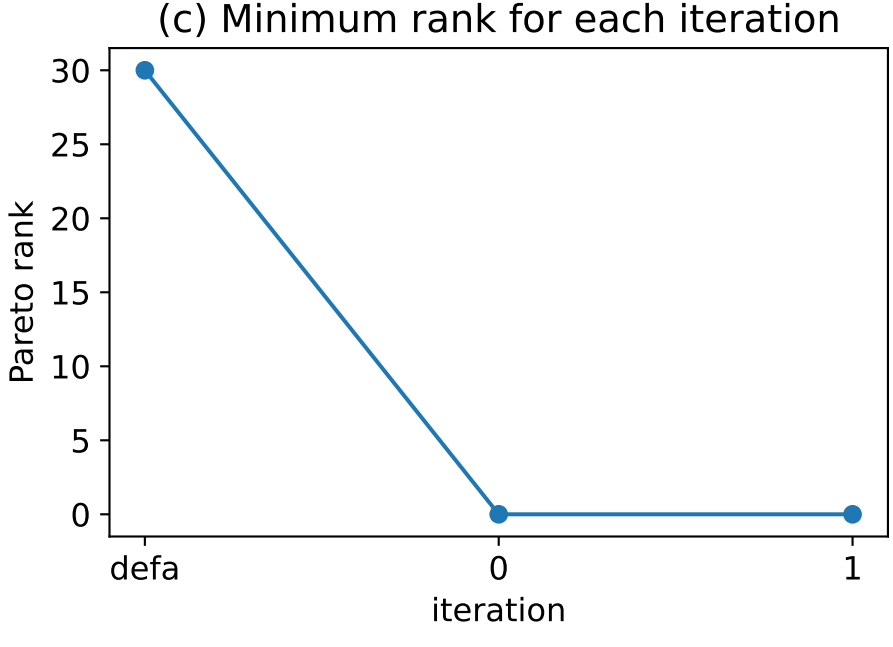




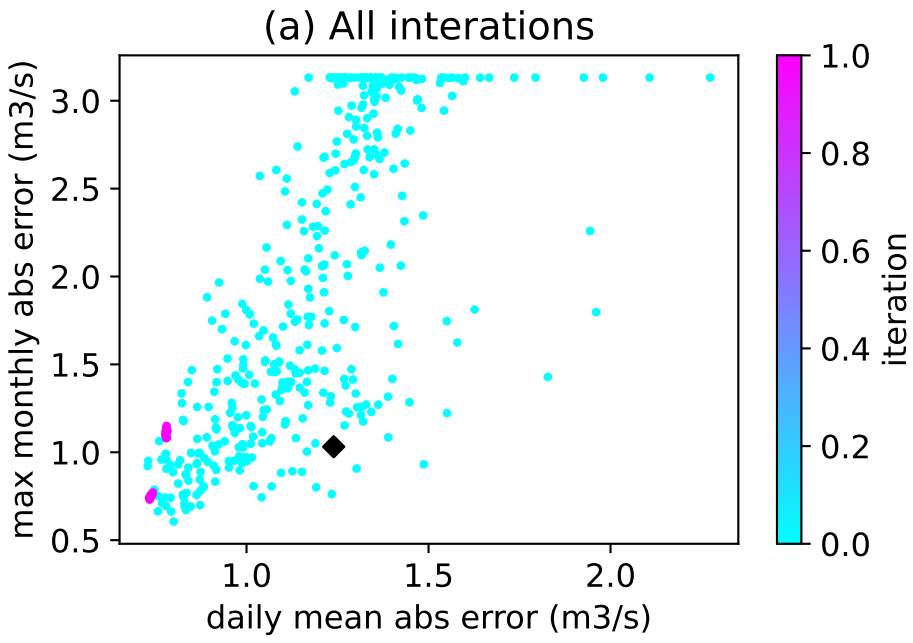
basinid: 130
hru_id: 2212600
lat_cen: 33.17211
lon_cen: -83.71004
AREA: 189.80 km2
elev_mean: 152.46 m

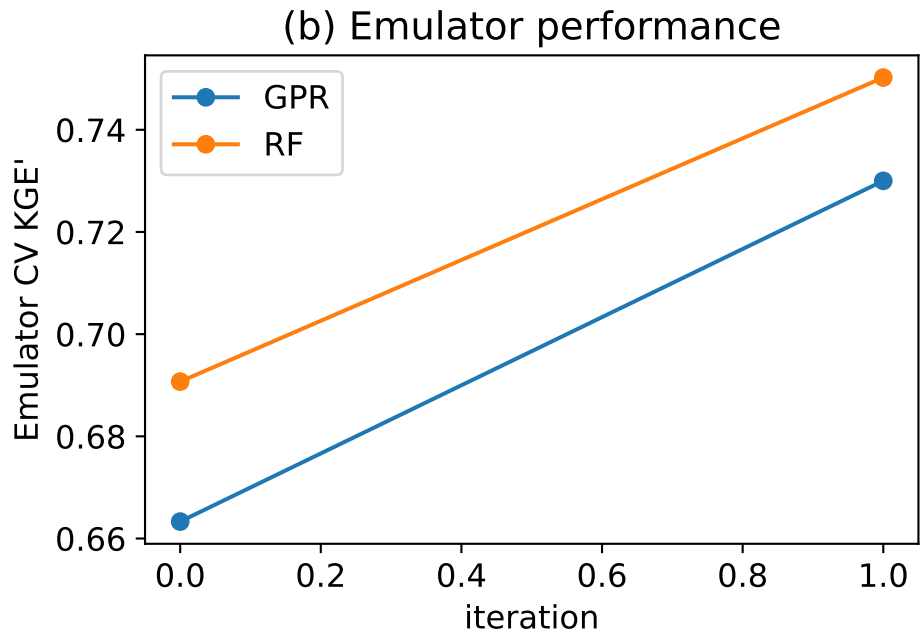


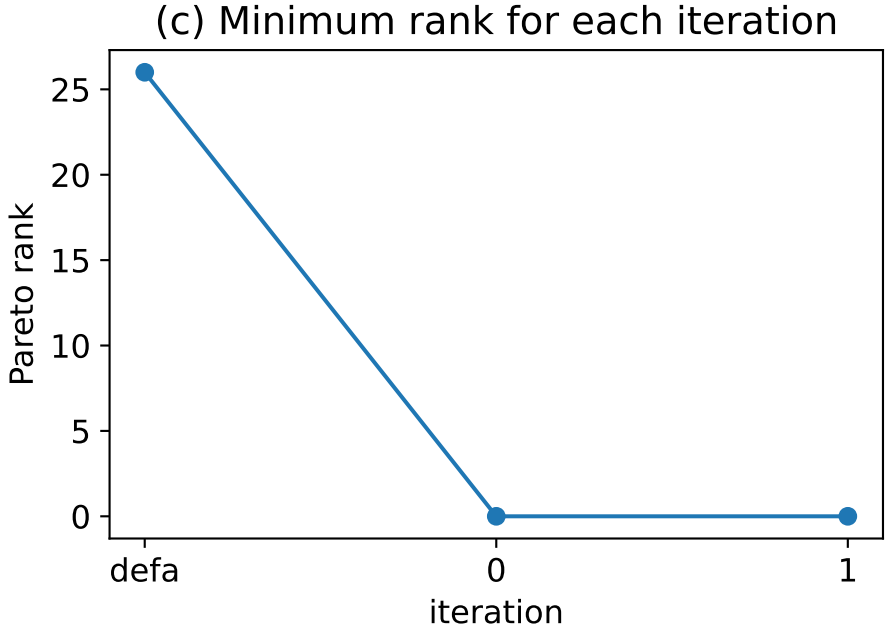




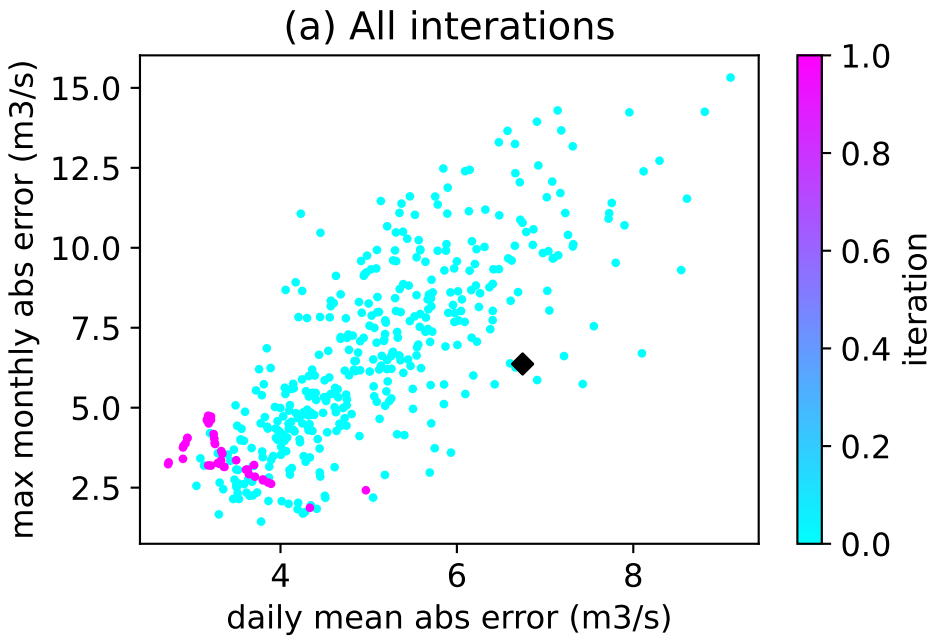
basinid: 131
hru_id: 2215100
lat_cen: 32.28677
lon_cen: -83.68396
AREA: 425.52 km2
elev_mean: 110.27 m

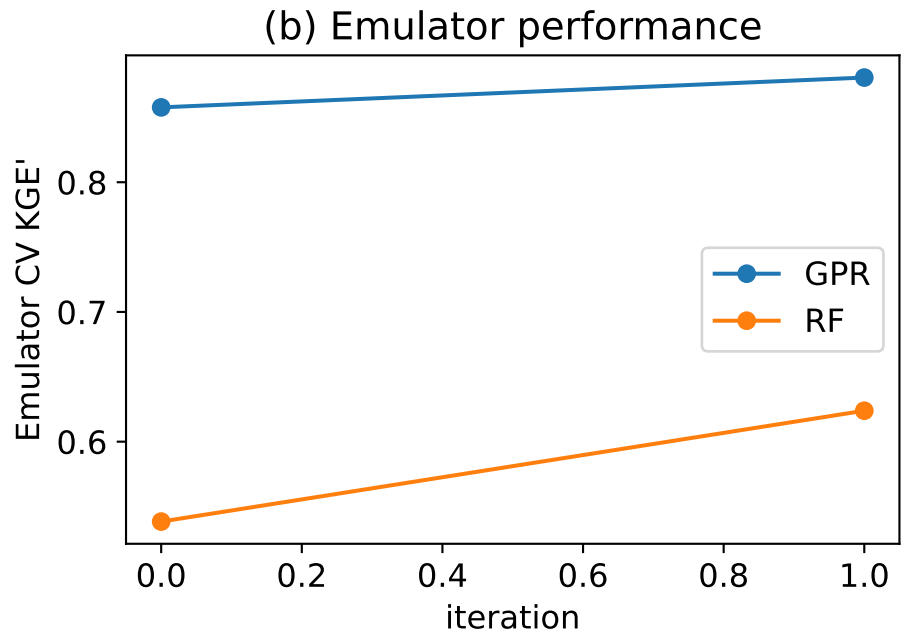


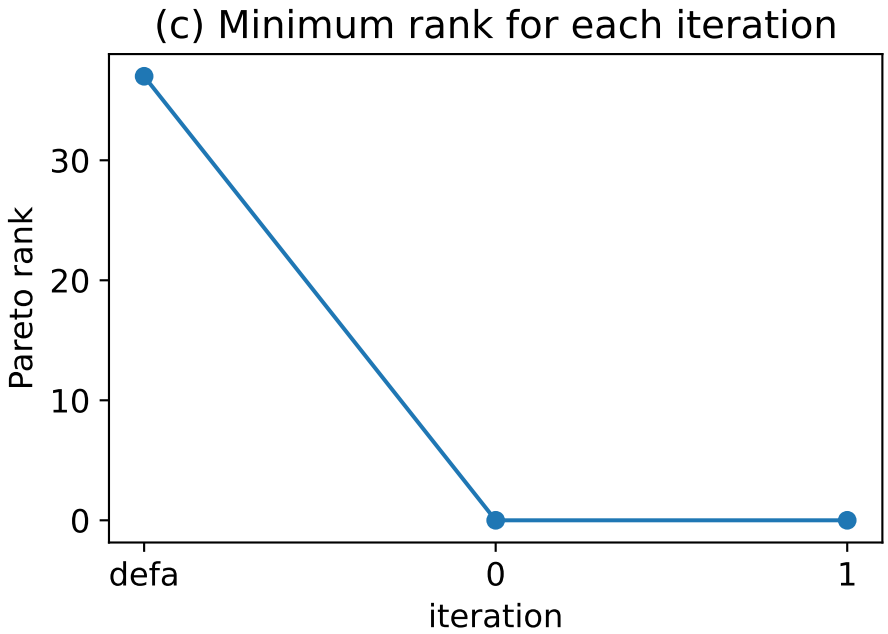




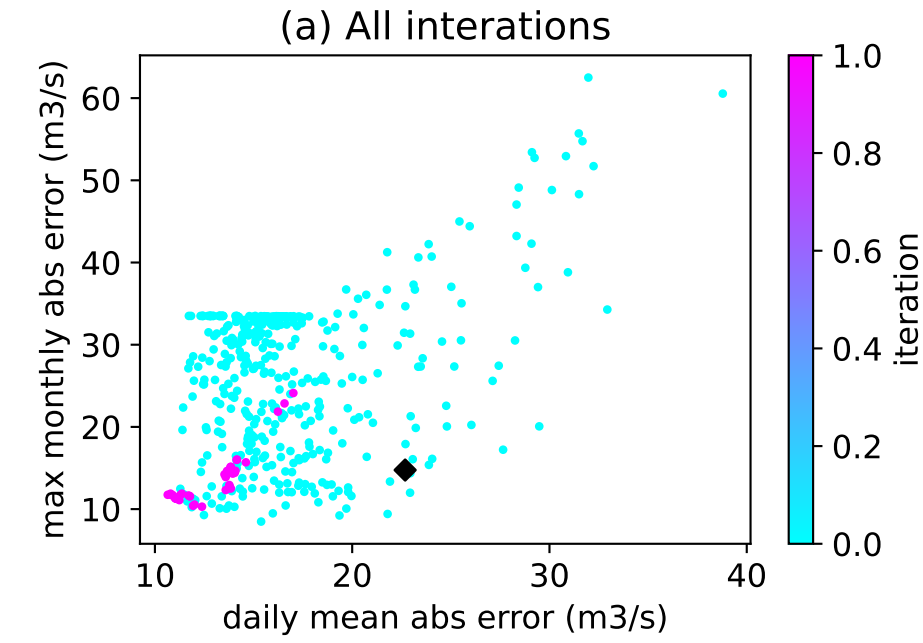
basinid: 132
hru_id: 2216180
lat_cen: 32.033
lon_cen: -83.02374
AREA: 128.08 km2
elev_mean: 82.28 m

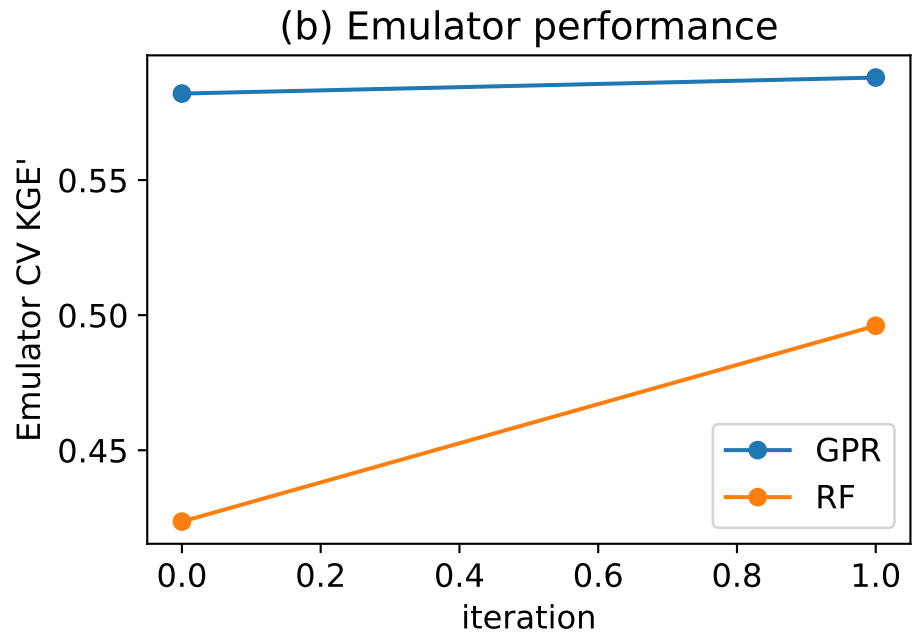


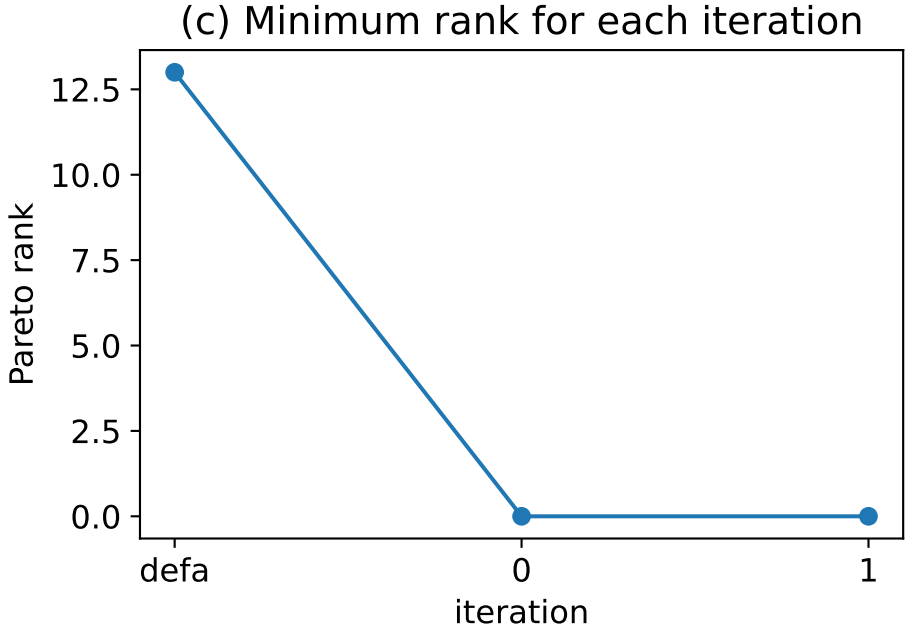




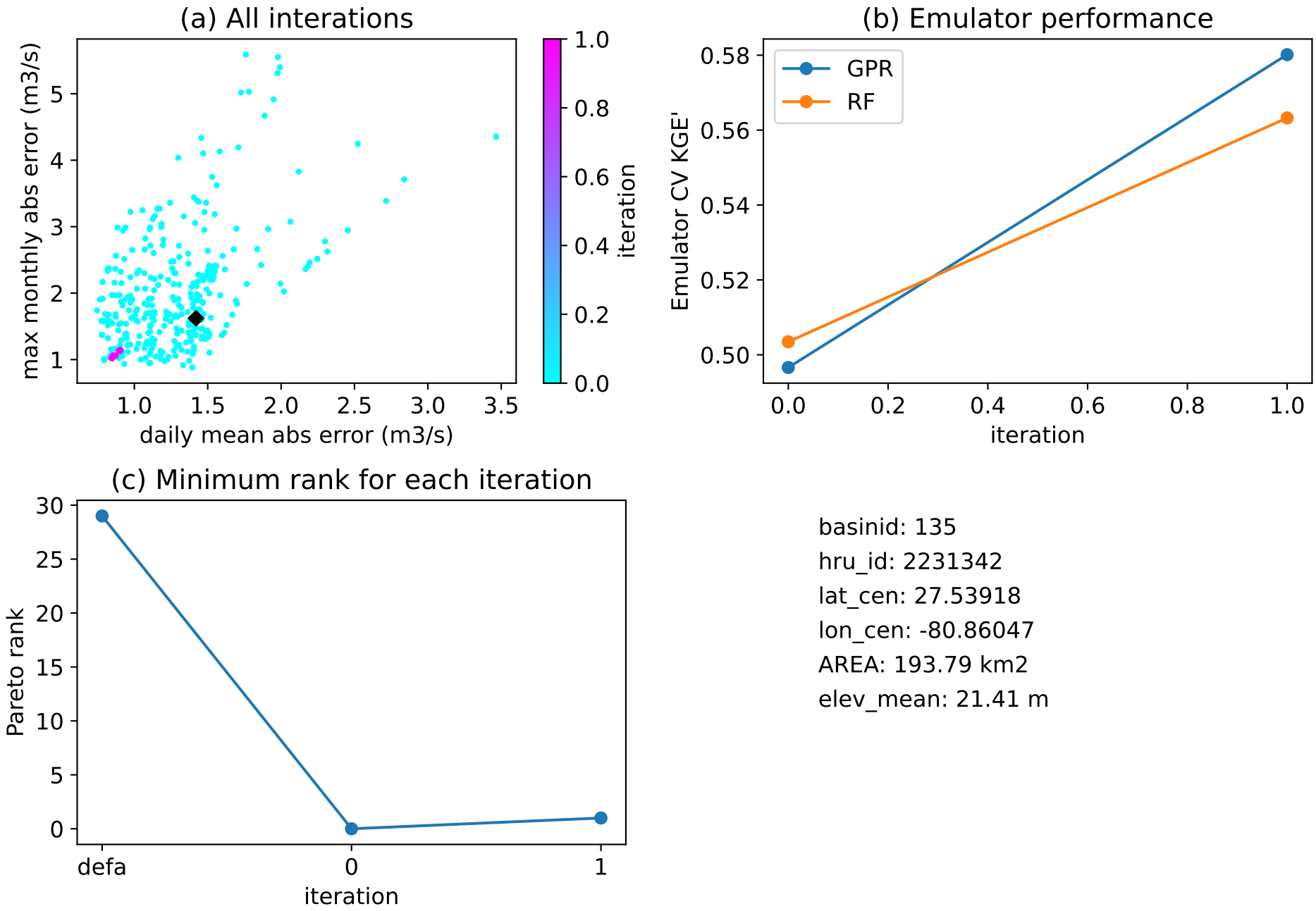
basinid: 133
hru_id: 2221525
lat_cen: 33.35787
lon_cen: -83.63598
AREA: 493.29 km2
elev_mean: 167.16 m

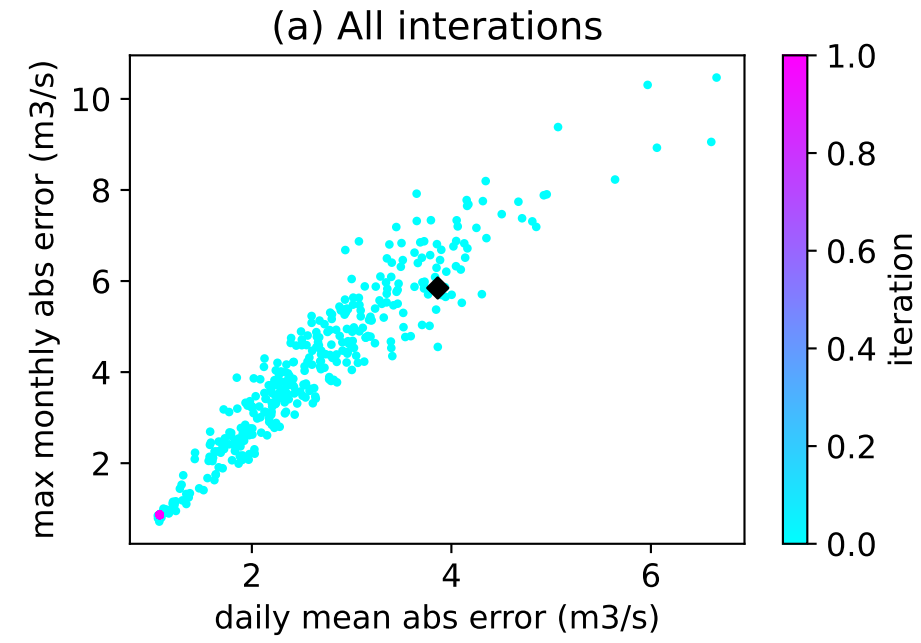


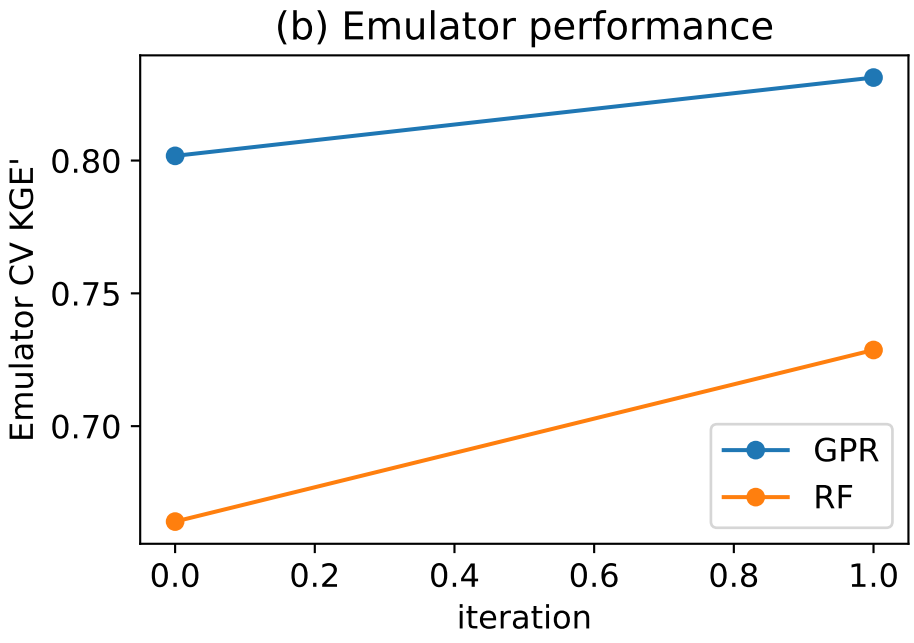


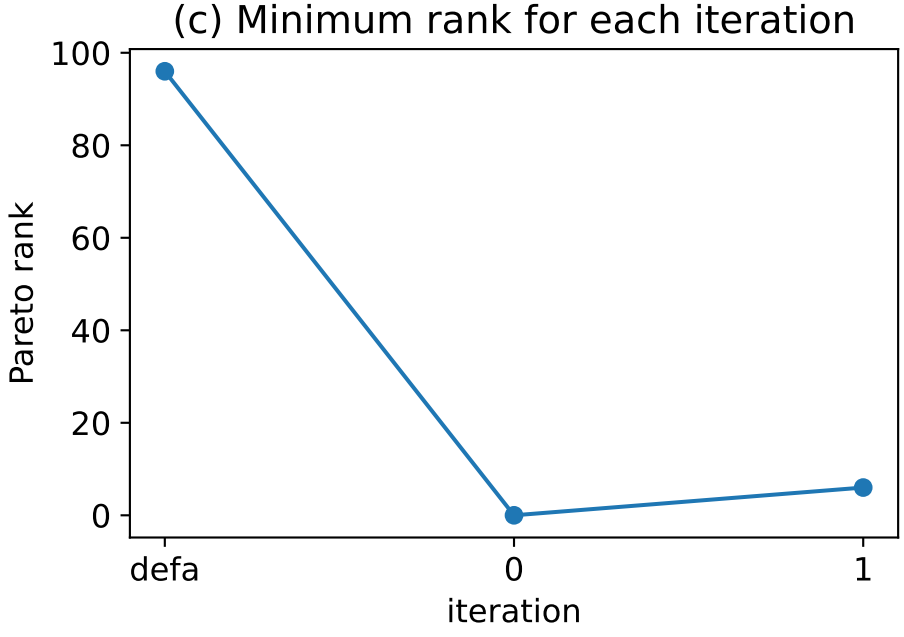


basinid: 134
hru_id: 2231000
lat_cen: 30.39226
lon_cen: -82.25822
AREA: 1857.40 km2
elev_mean: 38.25 m

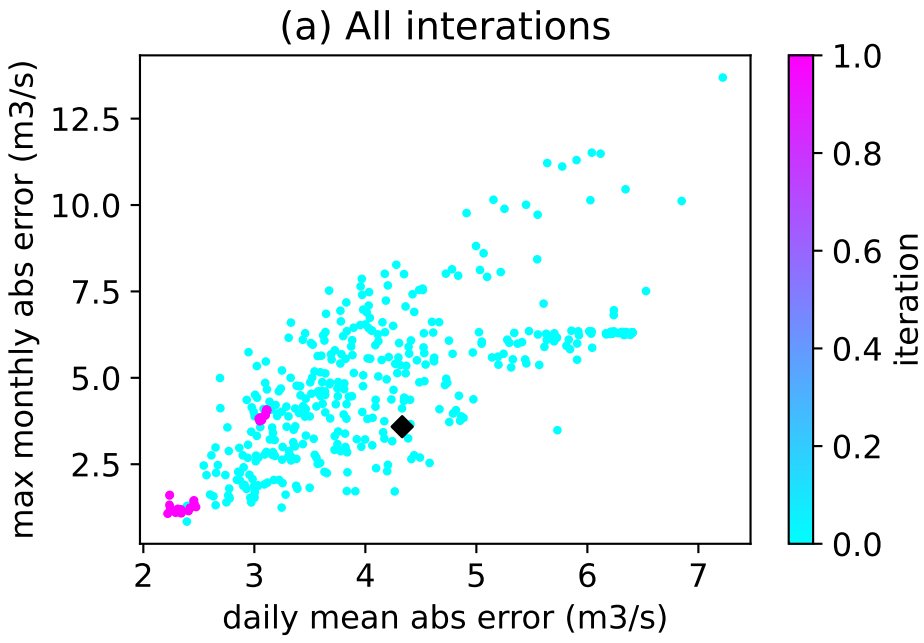

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
defa
iteration
basinid: 135
hru_id: 2231342
lat_cen: 27.53918
lon_cen: -80.86047
AREA: 193.79 km2
elev_mean: 21.41 m

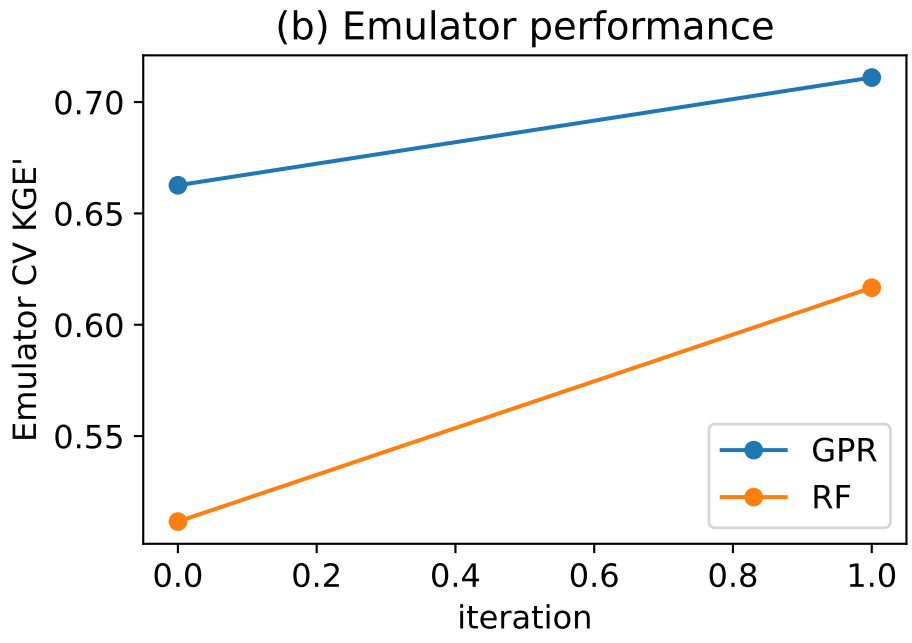


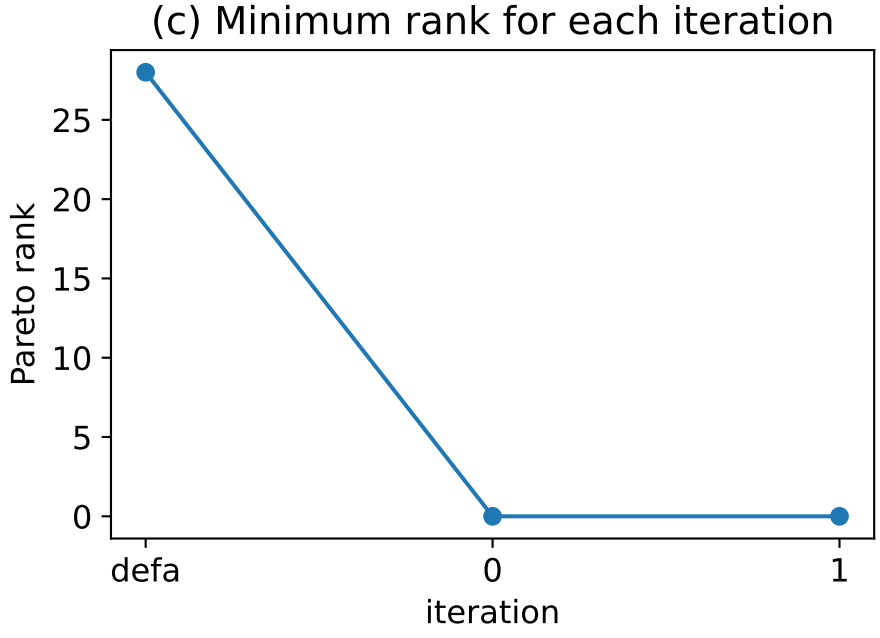




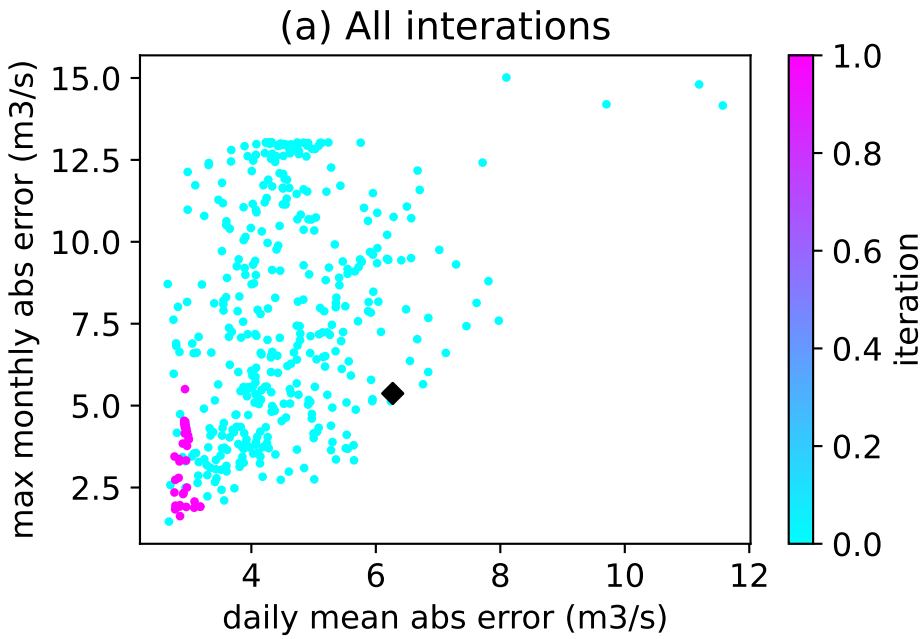
basinid: 136
hru_id: 2235200
lat_cen: 28.94932
lon_cen: -81.56596
AREA: 300.68 km2
elev_mean: 21.69 m

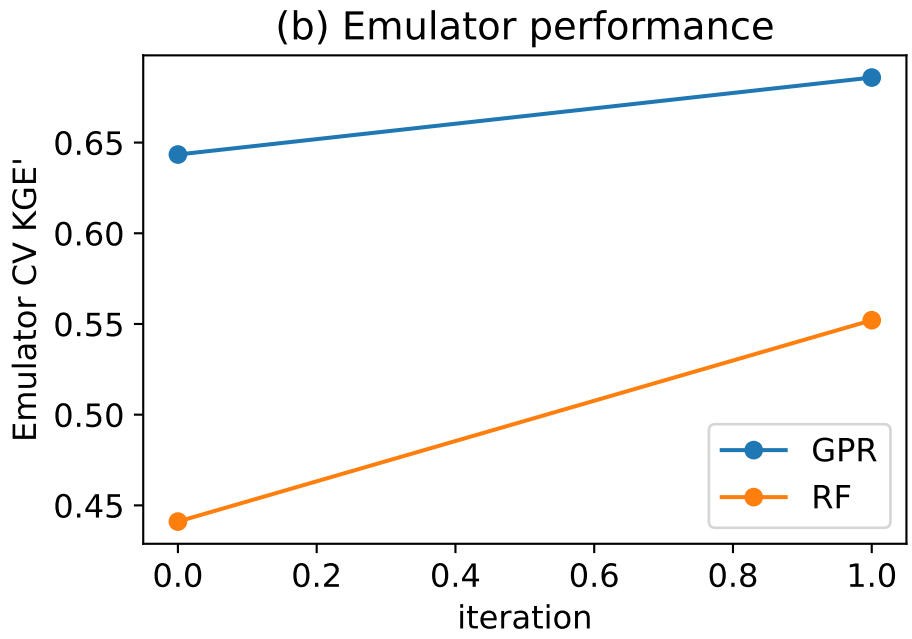


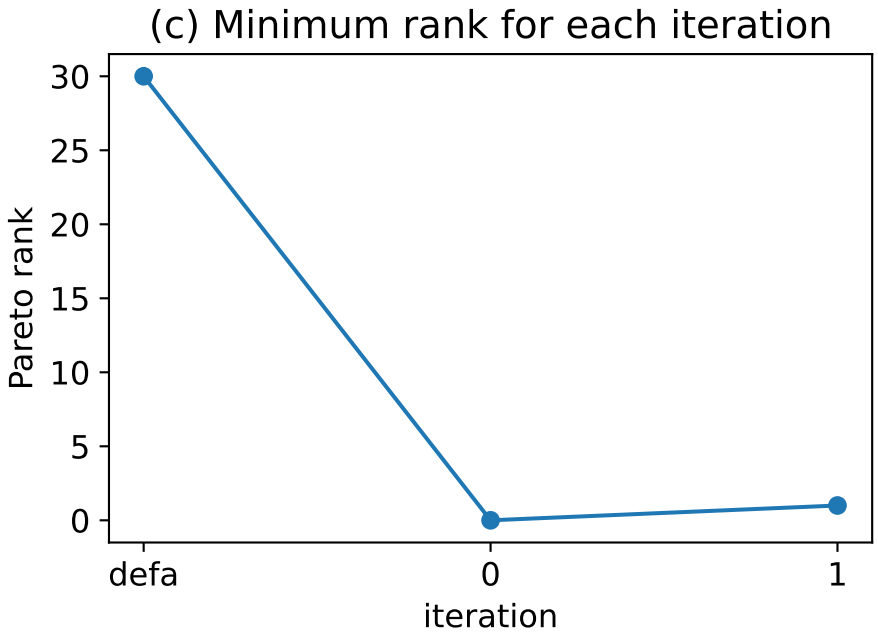




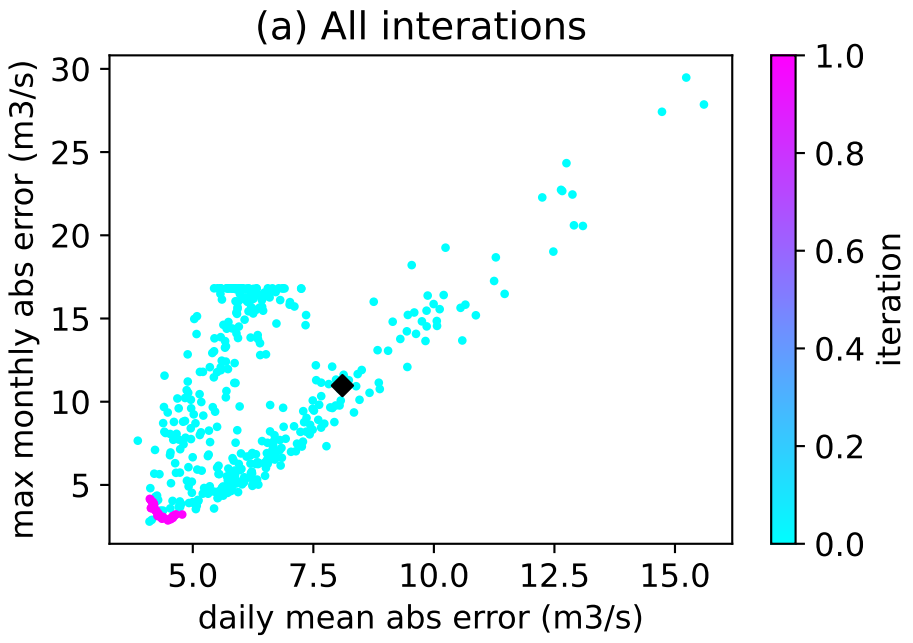
basinid: 137
hru_id: 2245500
lat_cen: 29.90454
lon_cen: -81.87821
AREA: 351.11 km2
elev_mean: 36.27 m

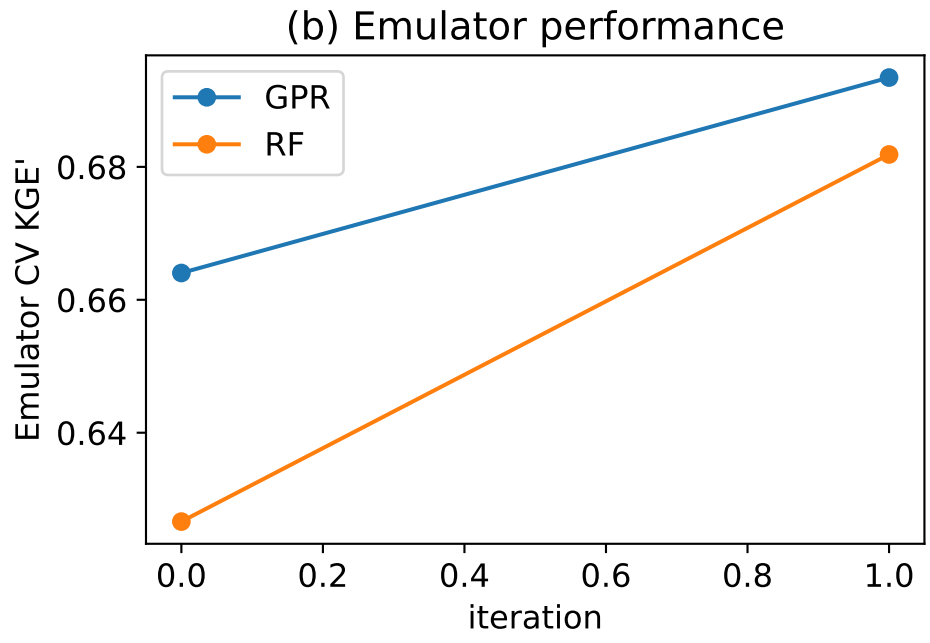


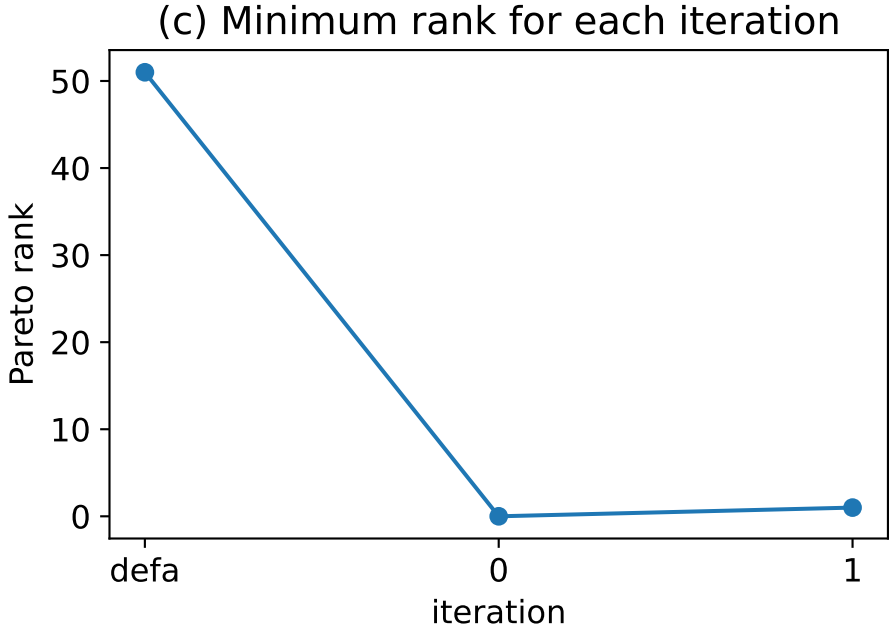




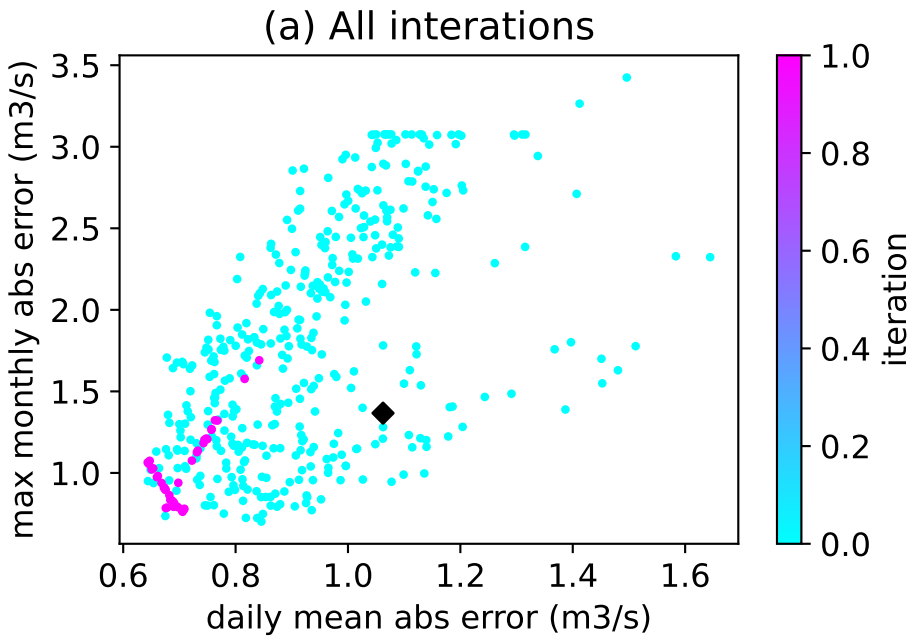
basinid: 138
hru_id: 2246000
lat_cen: 30.14773
lon_cen: -81.96393
AREA: 451.23 km2
elev_mean: 32.66 m

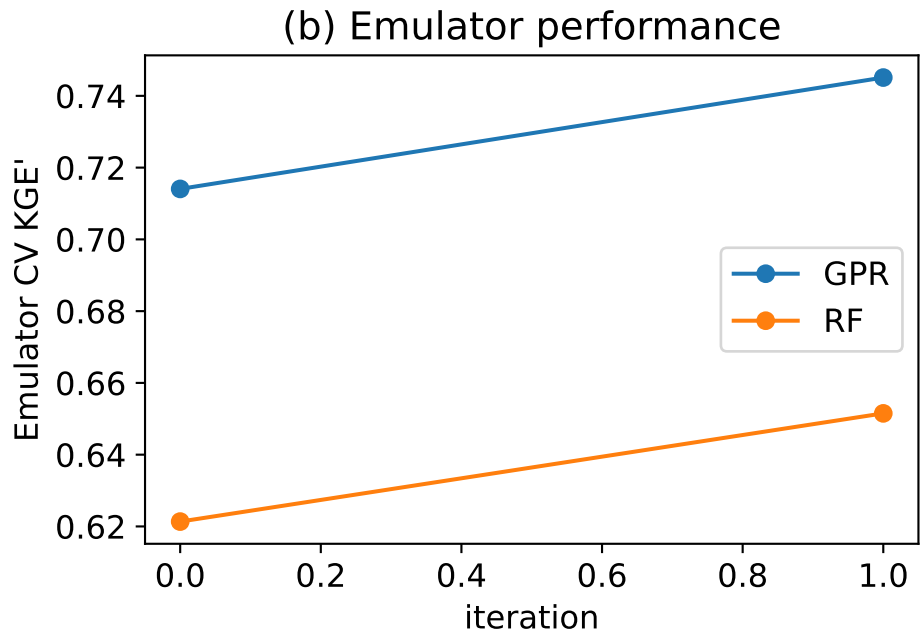


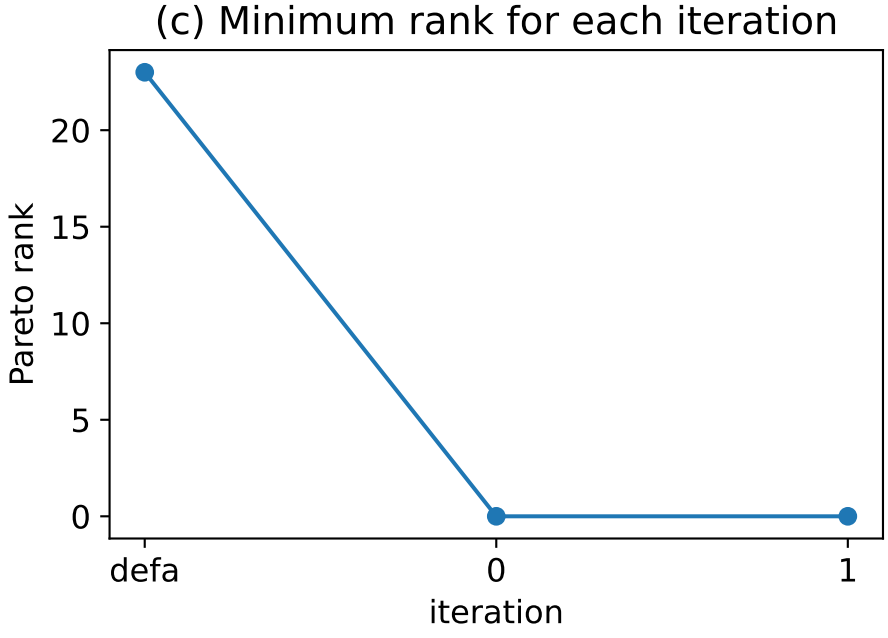




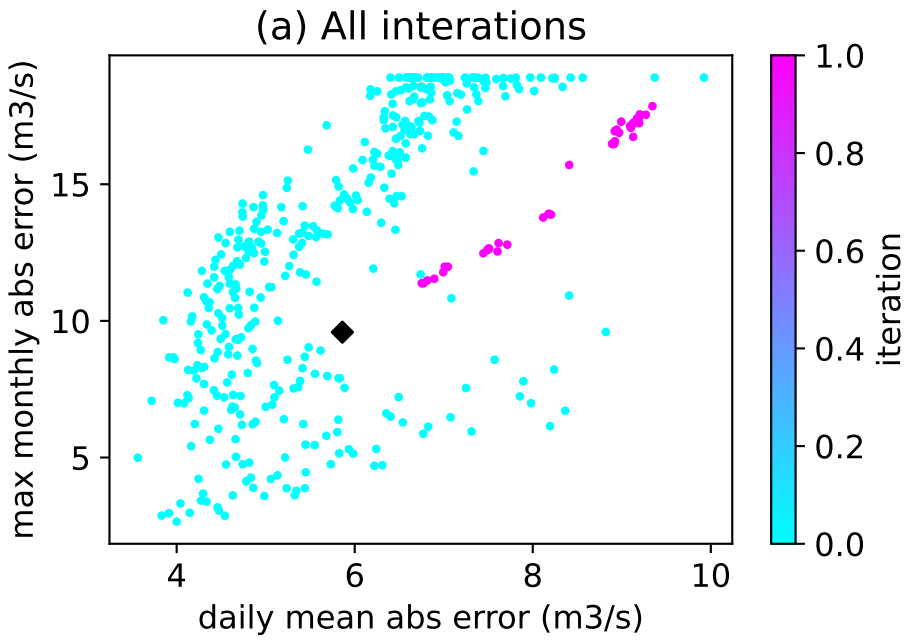
basinid: 139
hru_id: 2296500
lat_cen: 27.46053
lon_cen: -81.62867
AREA: 892.25 km2
elev_mean: 27.38 m

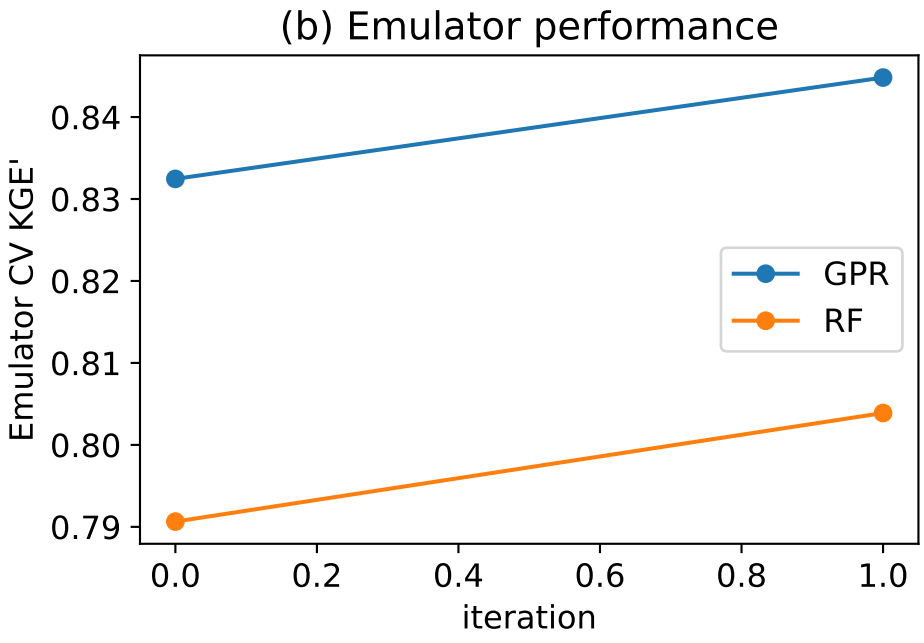


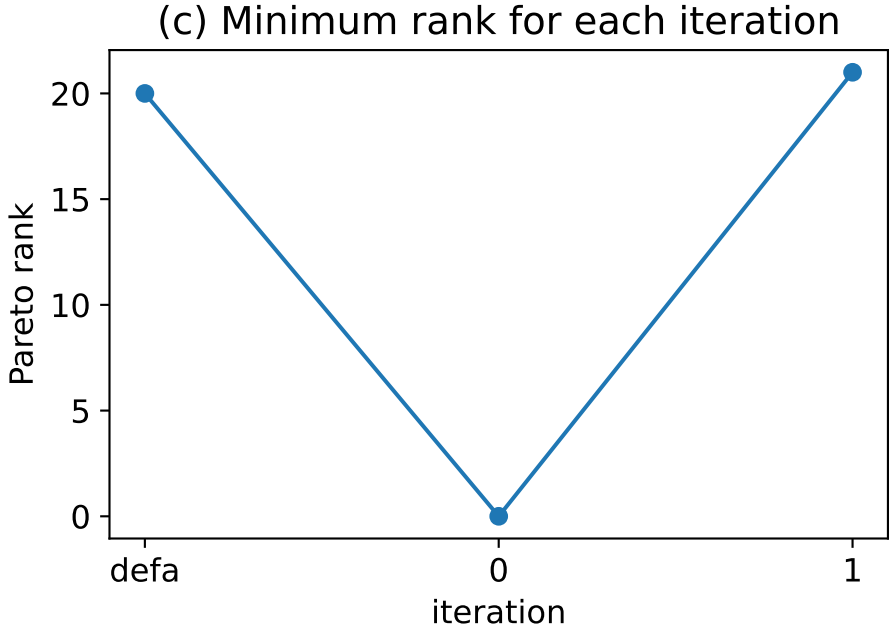




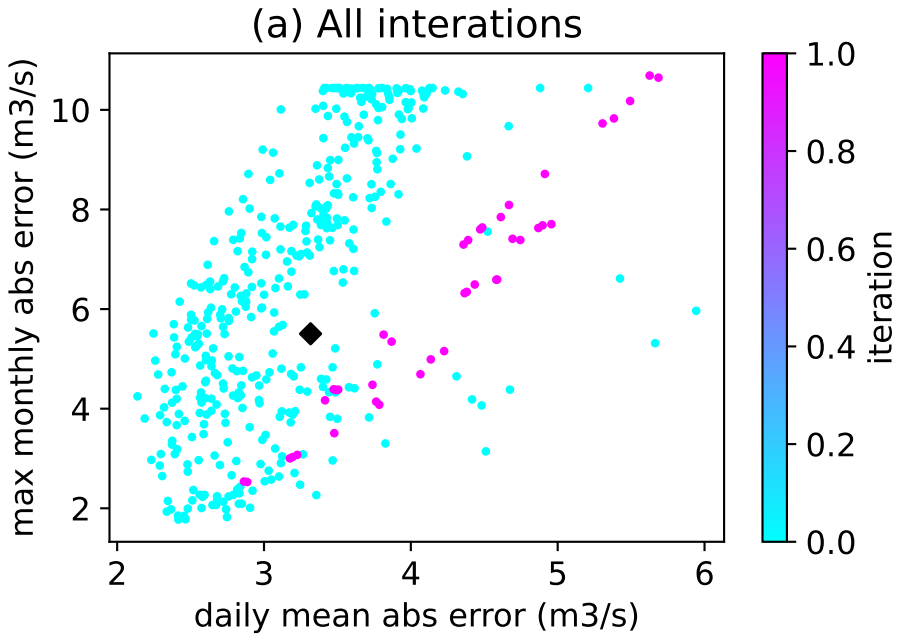
basinid: 140
hru_id: 2297155
lat_cen: 27.55556
lon_cen: -82.04248
AREA: 97.92 km2
elev_mean: 34.20 m

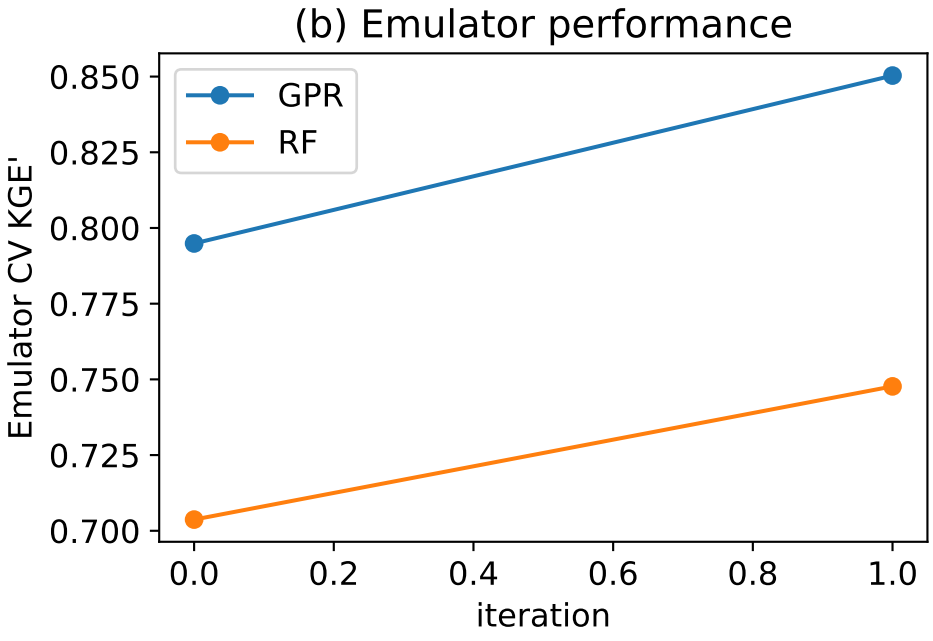


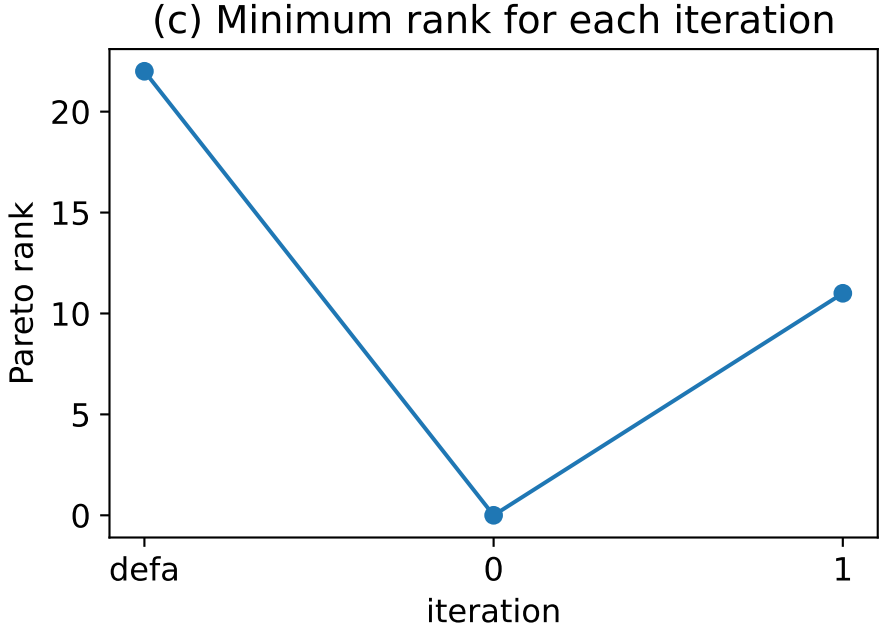




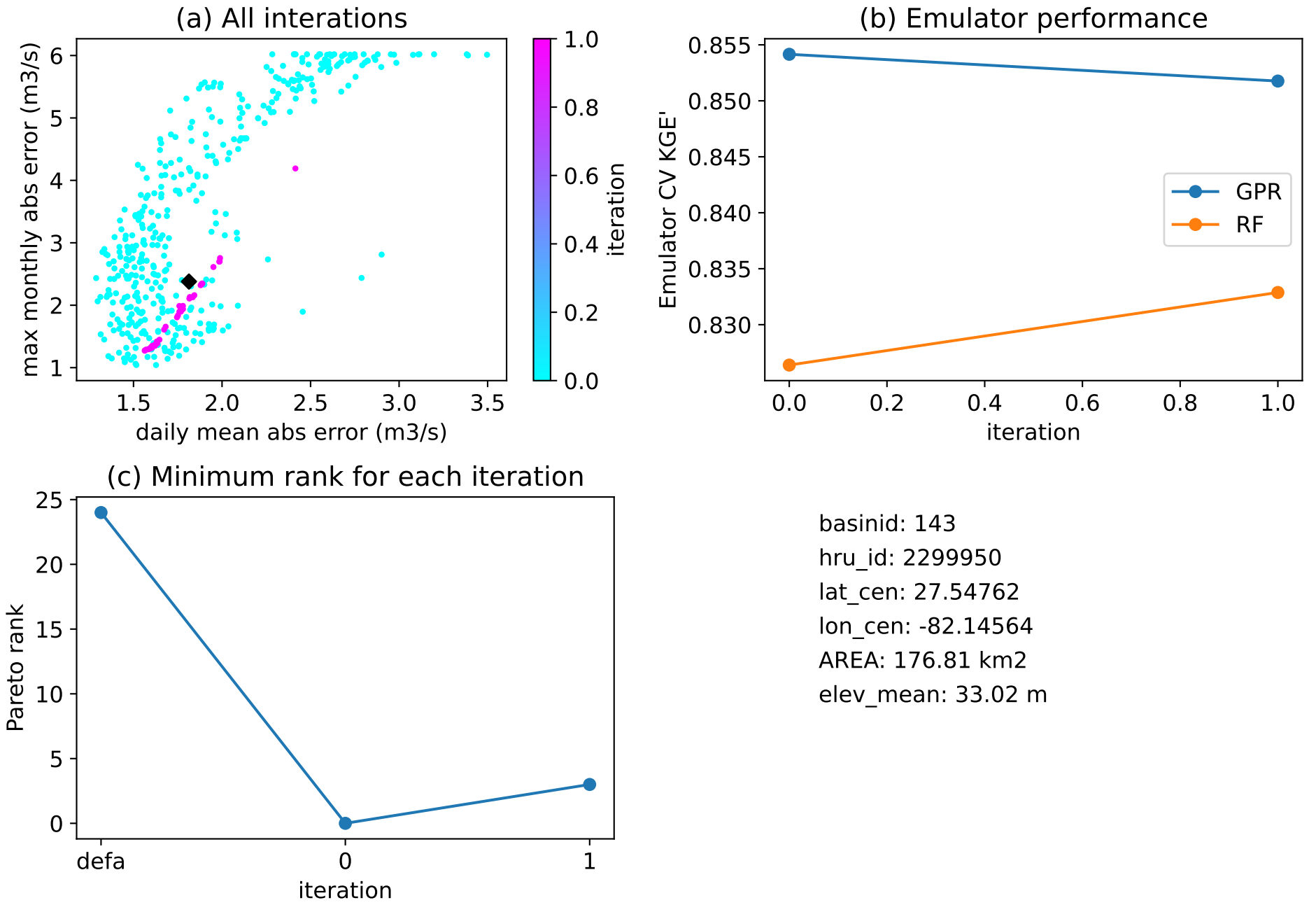
basinid: 141
hru_id: 2298123
lat_cen: 27.11558
lon_cen: -81.64642
AREA: 541.31 km2
elev_mean: 19.15 m

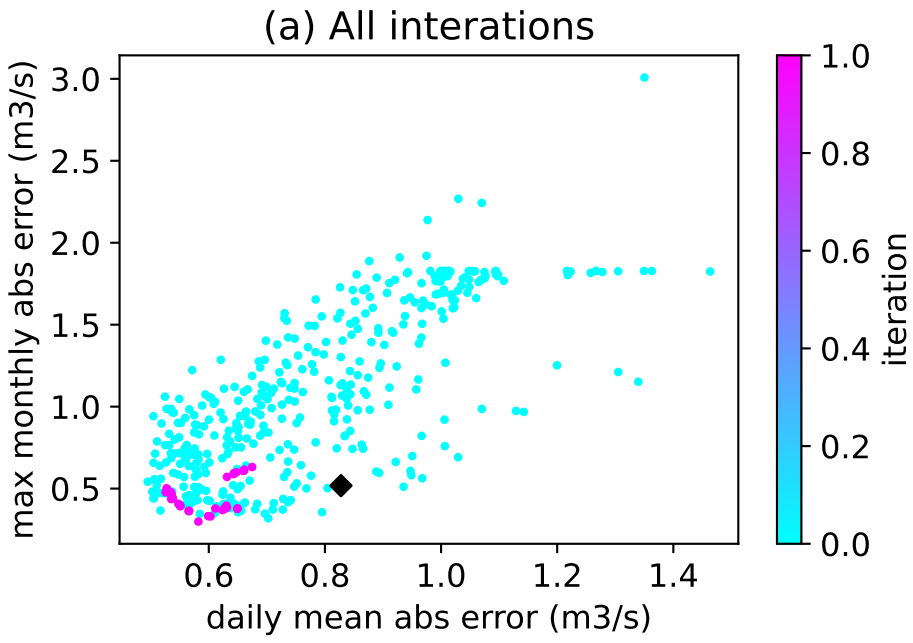


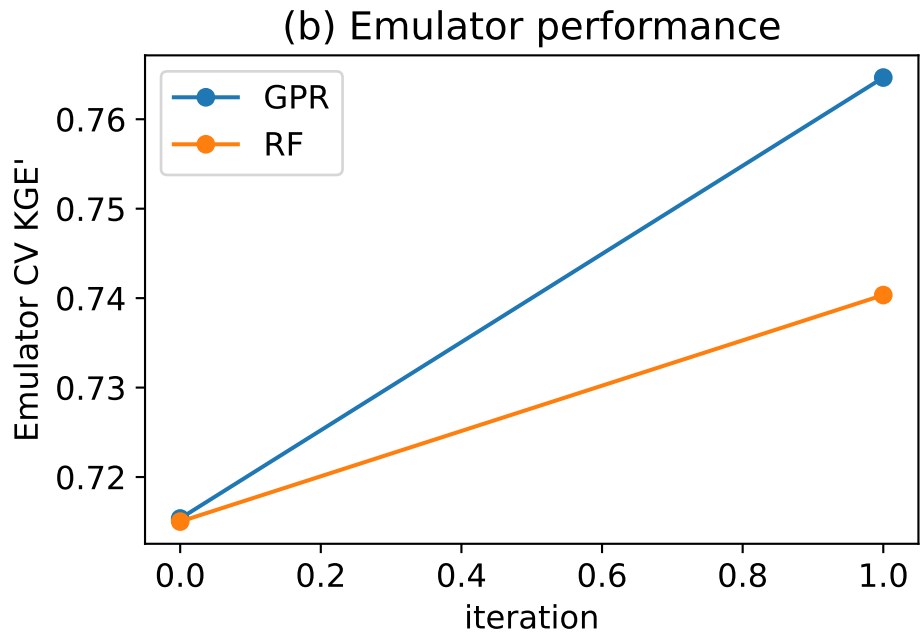


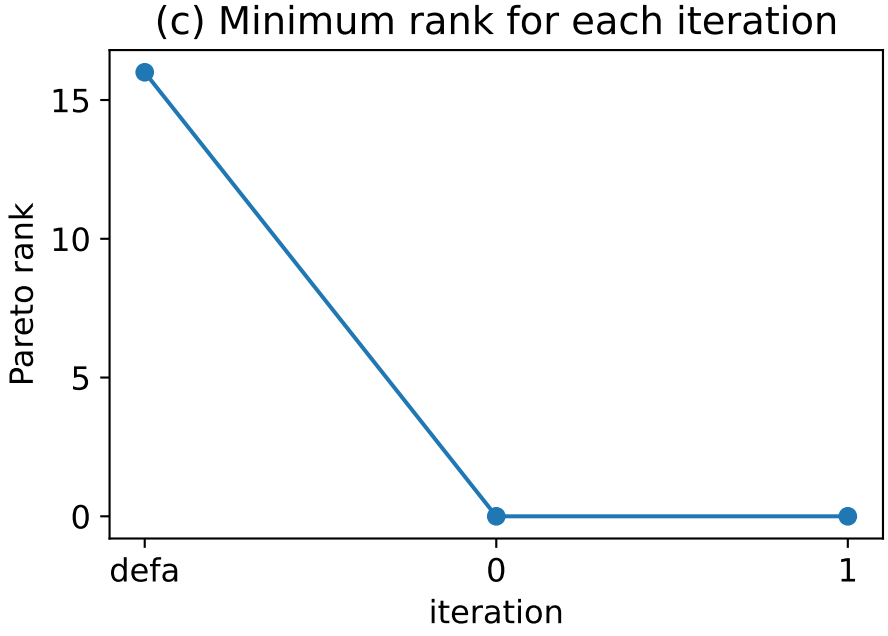


basinid: 142
hru_id: 2298608
lat_cen: 27.40547
lon_cen: -82.13156
AREA: 313.86 km2
elev_mean: 21.58 m

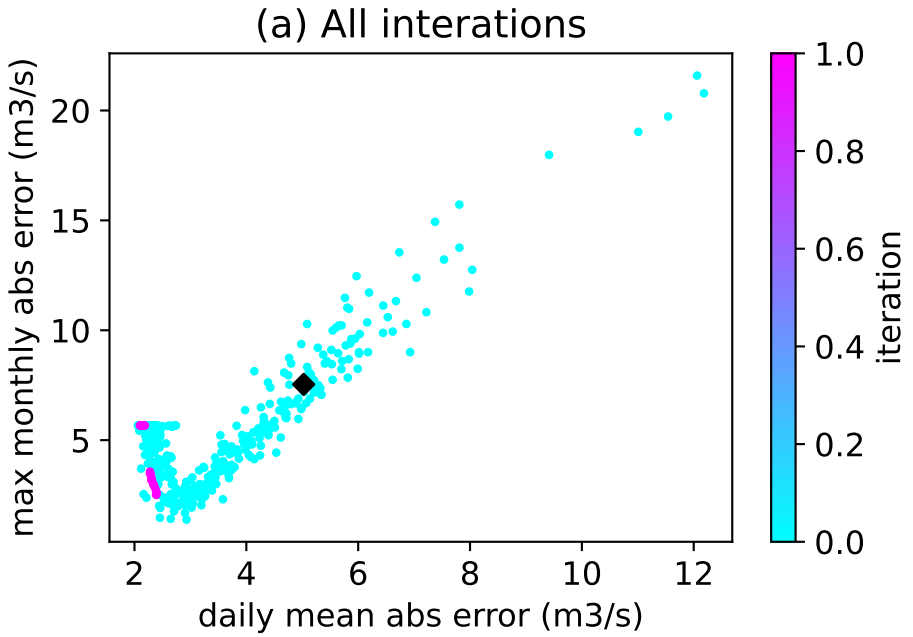

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 143
hru_id: 2299950
lat_cen: 27.54762
lon_cen: -82.14564
AREA: 176.81 km2
elev_mean: 33.02 m

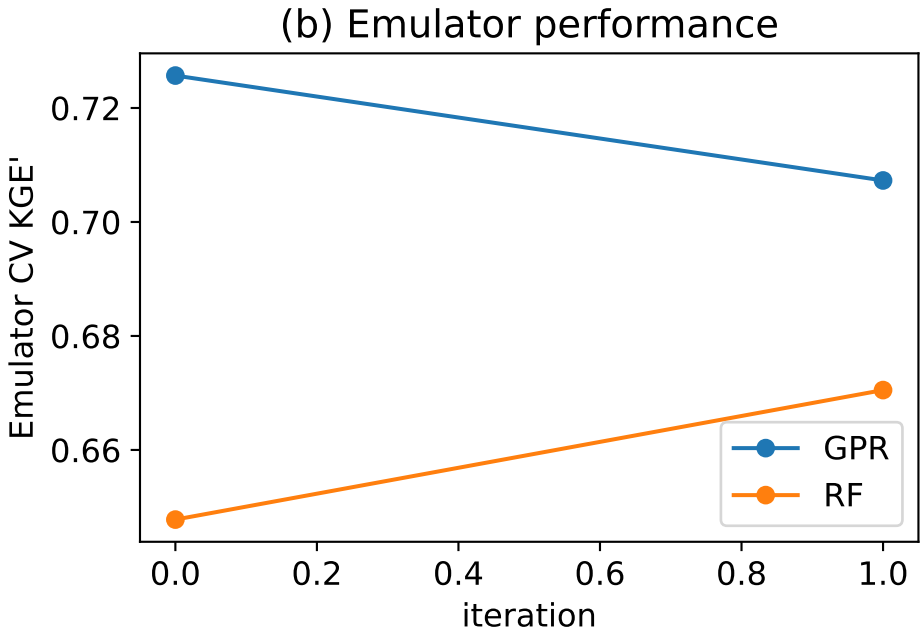


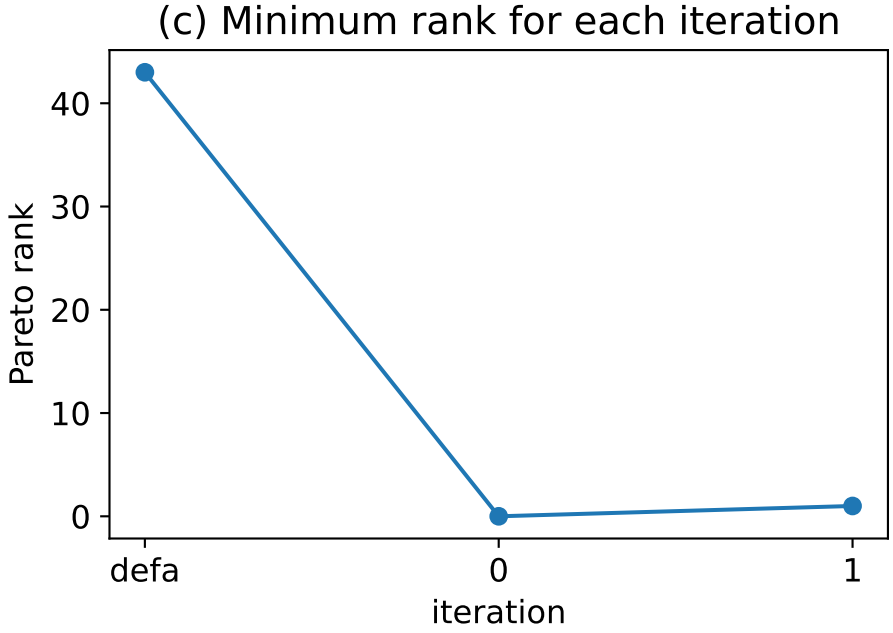




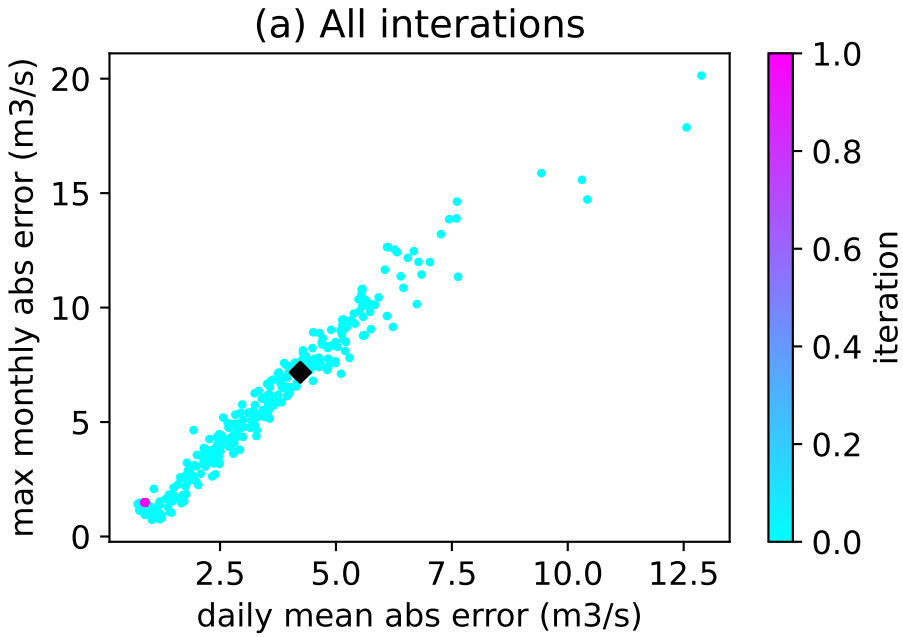
basinid: 144
hru_id: 2300700
lat_cen: 27.76227
lon_cen: -82.31141
AREA: 85.85 km2
elev_mean: 22.43 m

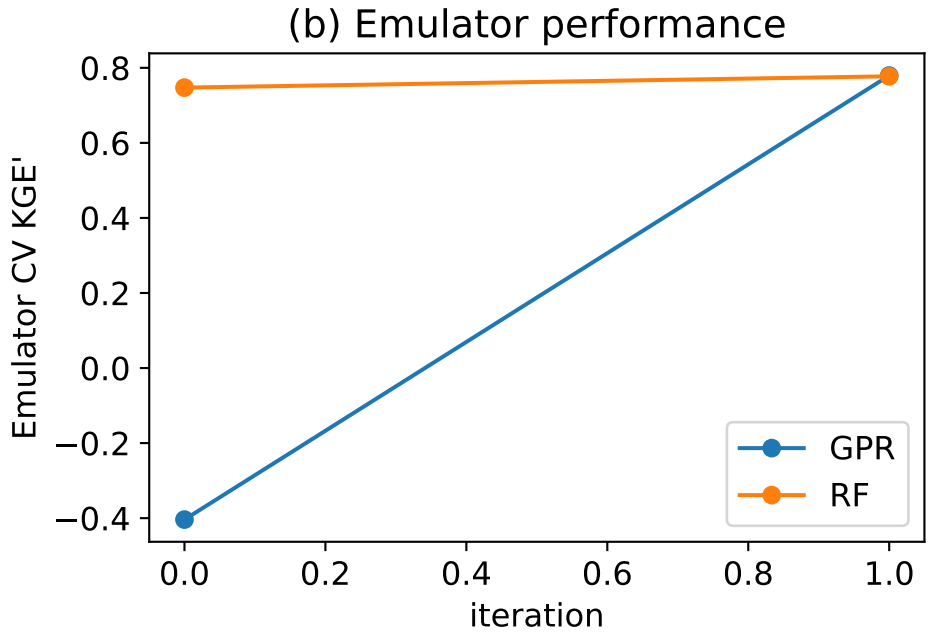


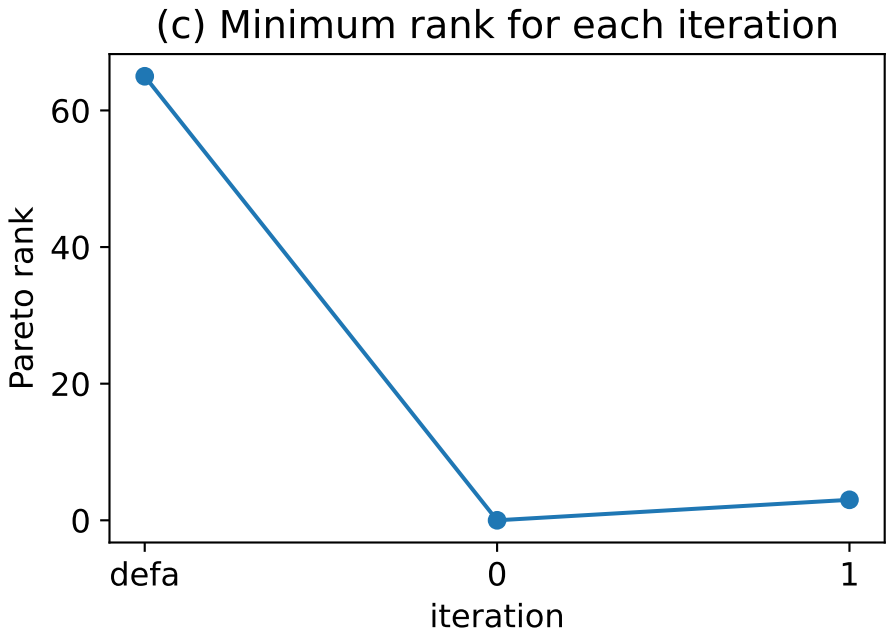




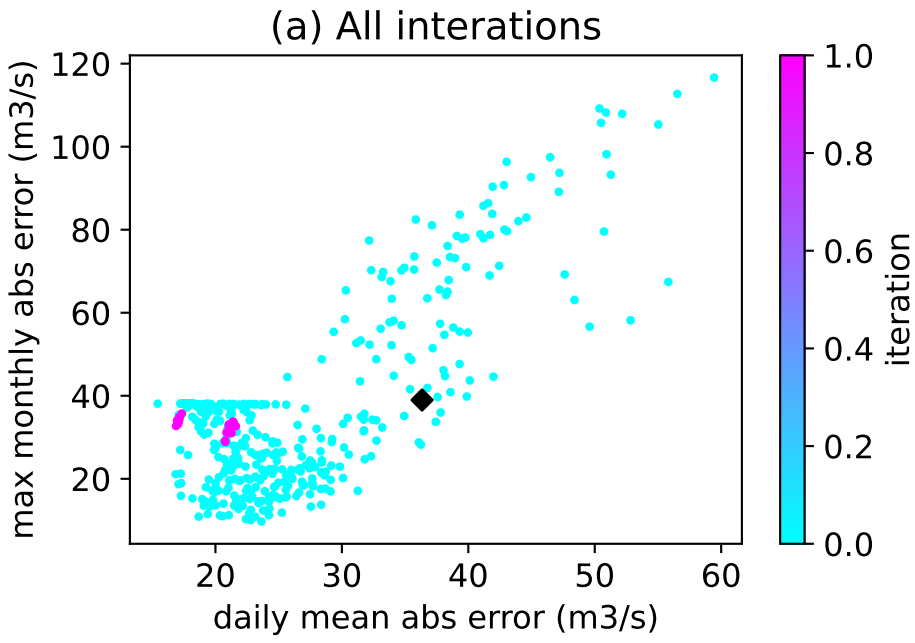
basinid: 145
hru_id: 2310947
lat_cen: 28.29261
lon_cen: -81.86051
AREA: 581.56 km2
elev_mean: 36.17 m

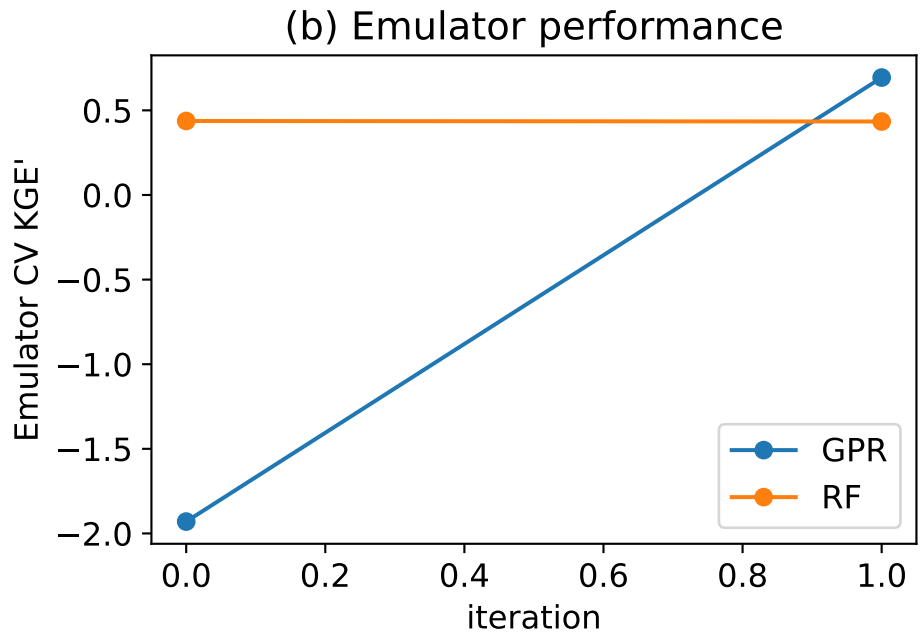


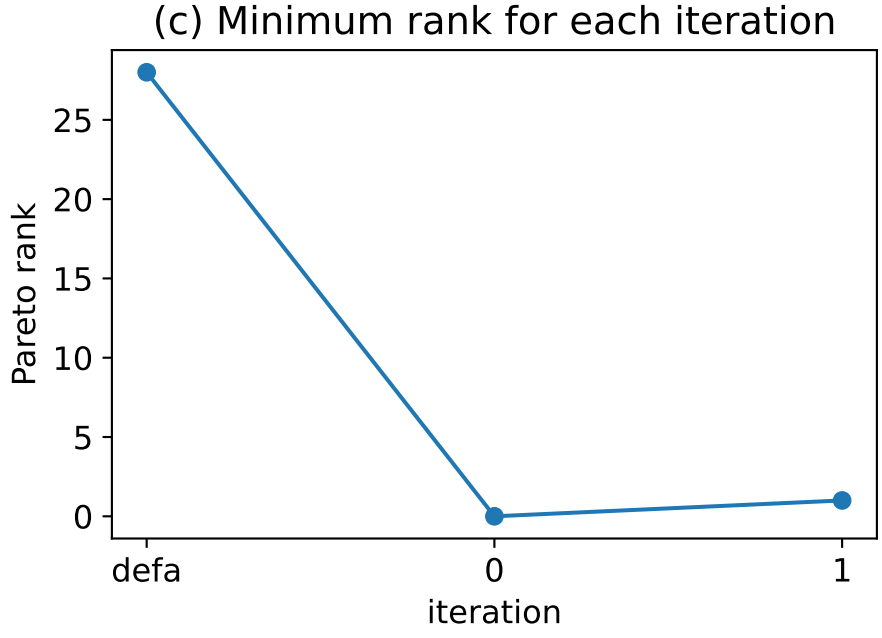




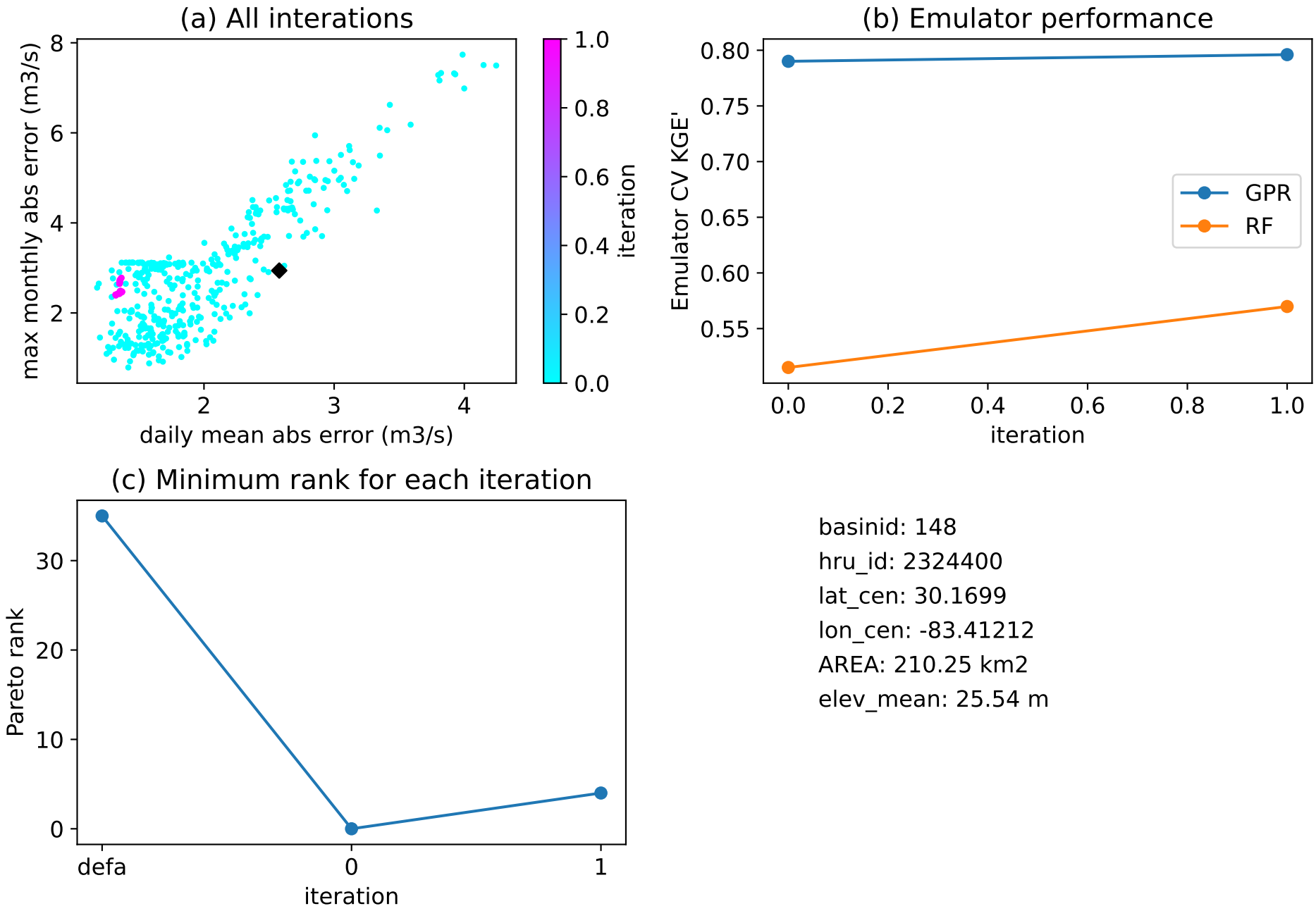
basinid: 146
hru_id: 2312200
lat_cen: 28.52137
lon_cen: -81.99847
AREA: 466.71 km2
elev_mean: 28.76 m

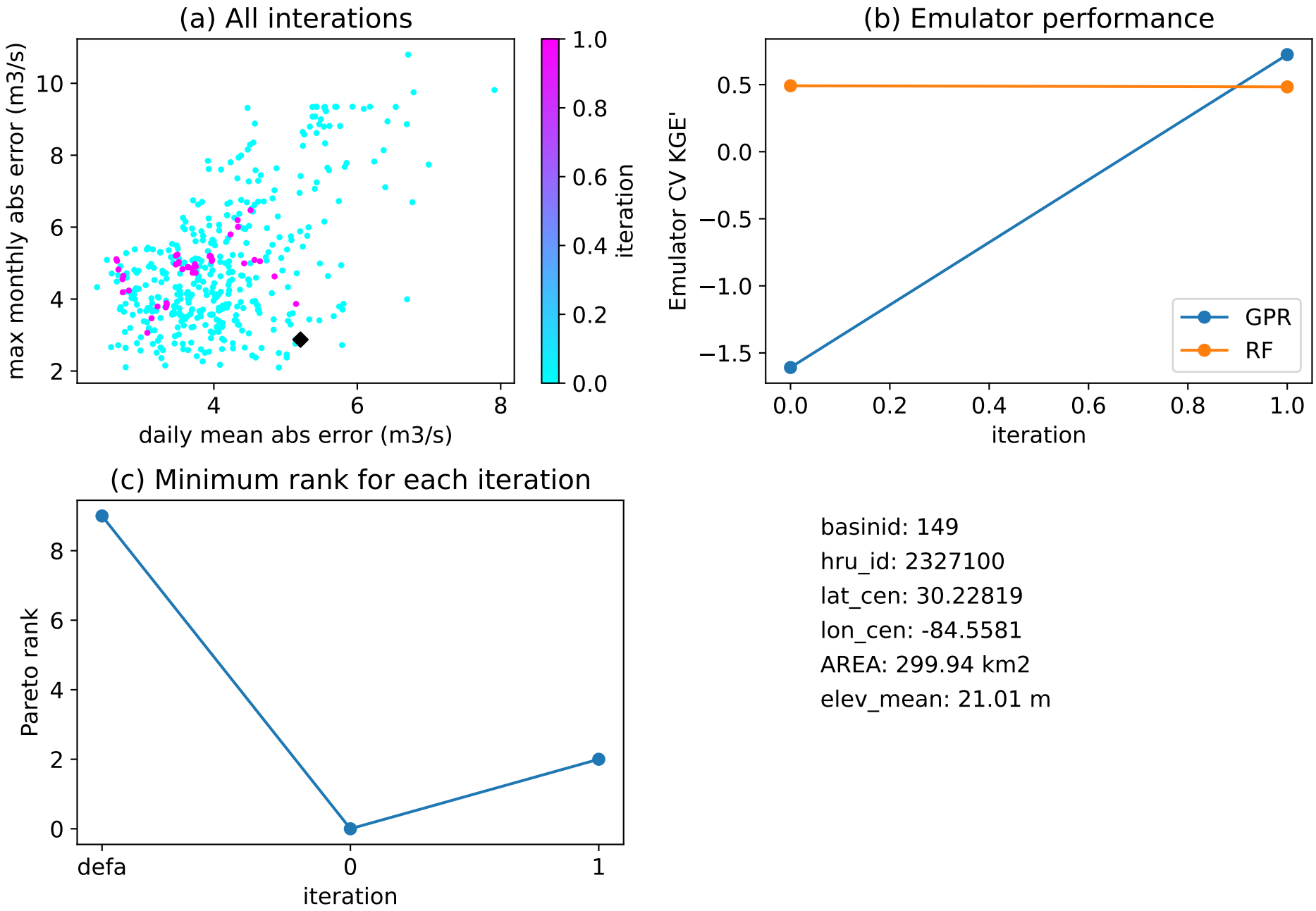


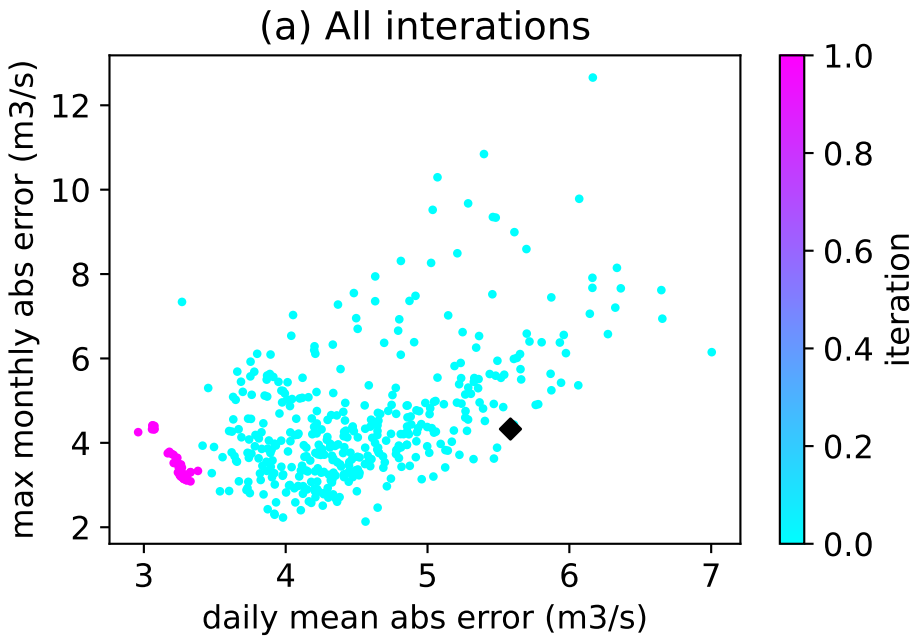


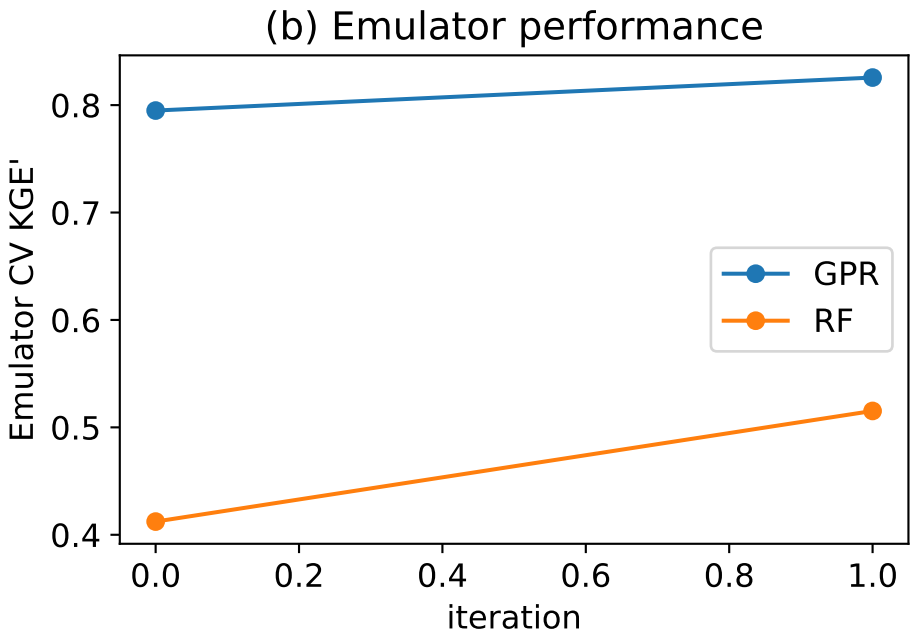


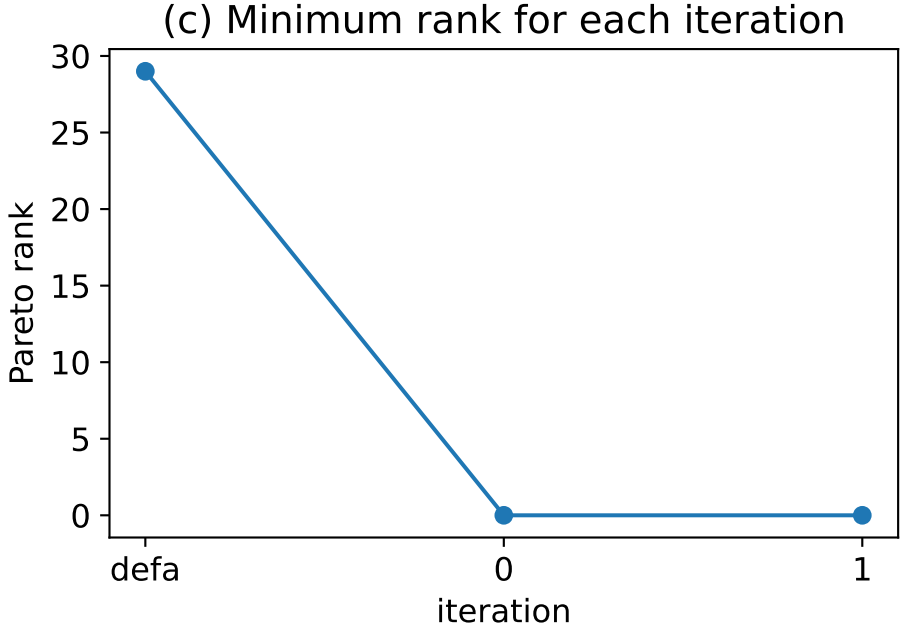
basinid: 147
hru_id: 2314500
lat_cen: 30.96462
lon_cen: -82.48767
AREA: 2808.50 km2
elev_mean: 41.54 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 148
hru_id: 2324400
lat_cen: 30.1699
lon_cen: -83.41212
AREA: 210.25 km2
elev_mean: 25.54 m

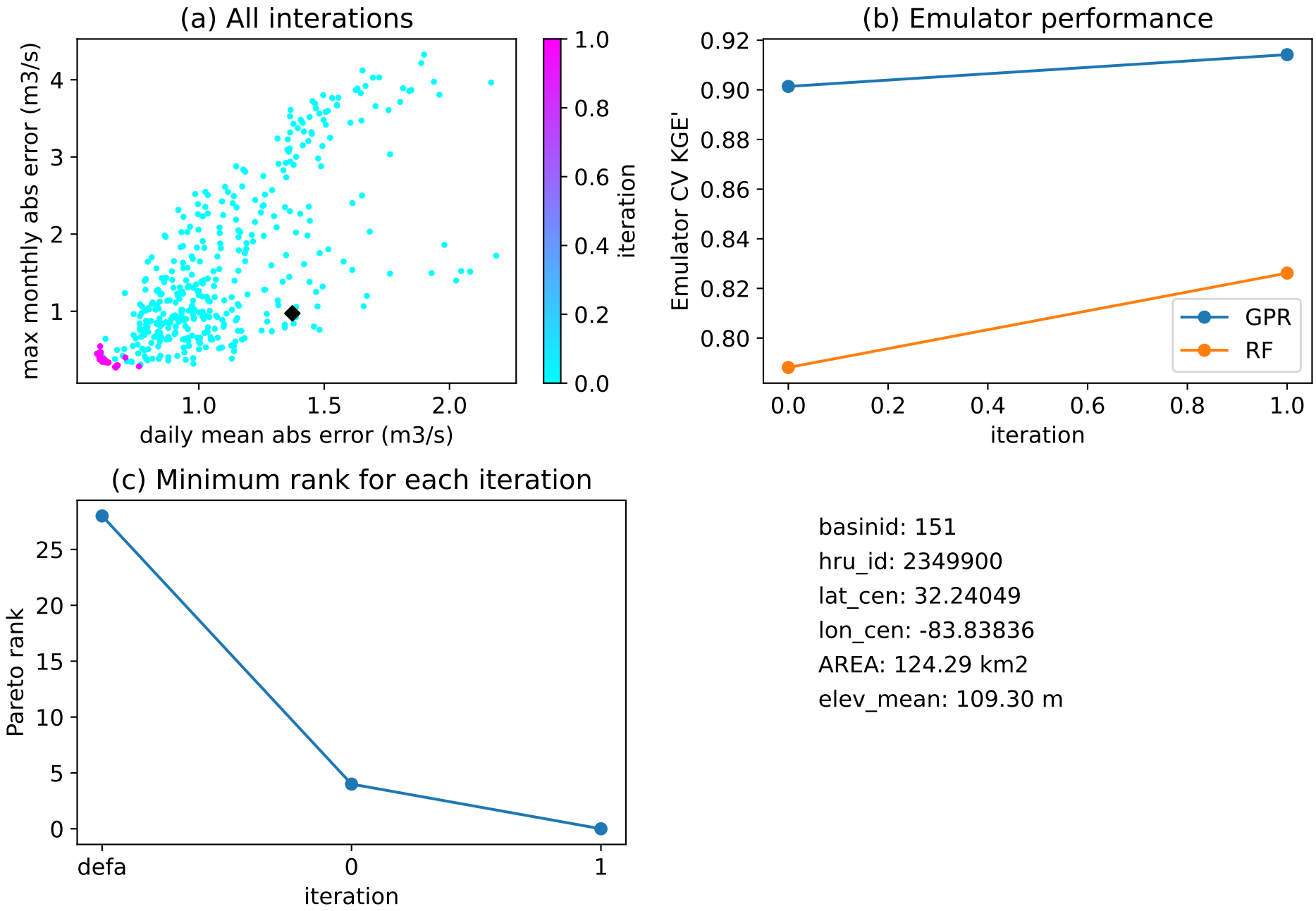

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 149
hru_id: 2327100
lat_cen: 30.22819
lon_cen: -84.5581
AREA: 299.94 km2
elev_mean: 21.01 m

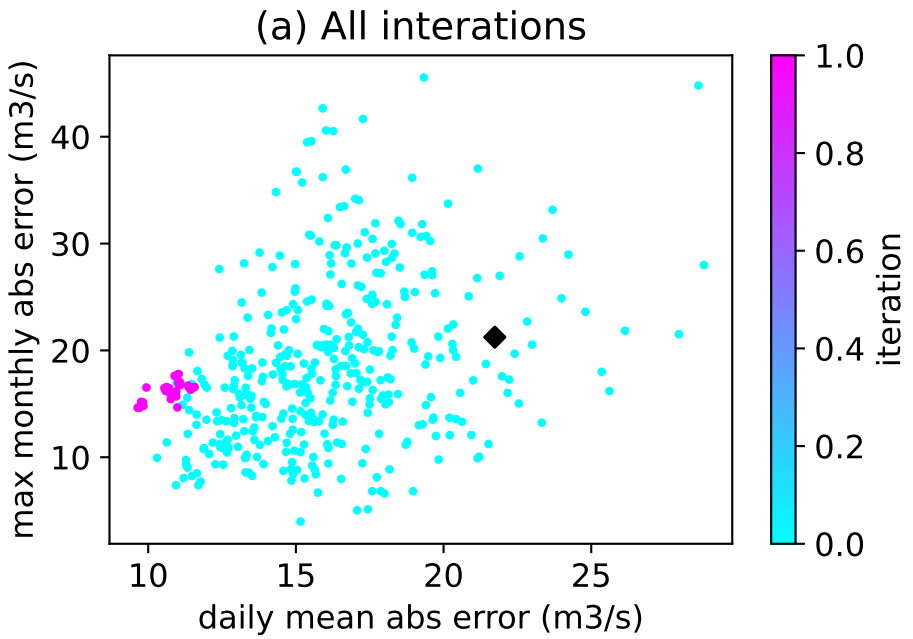


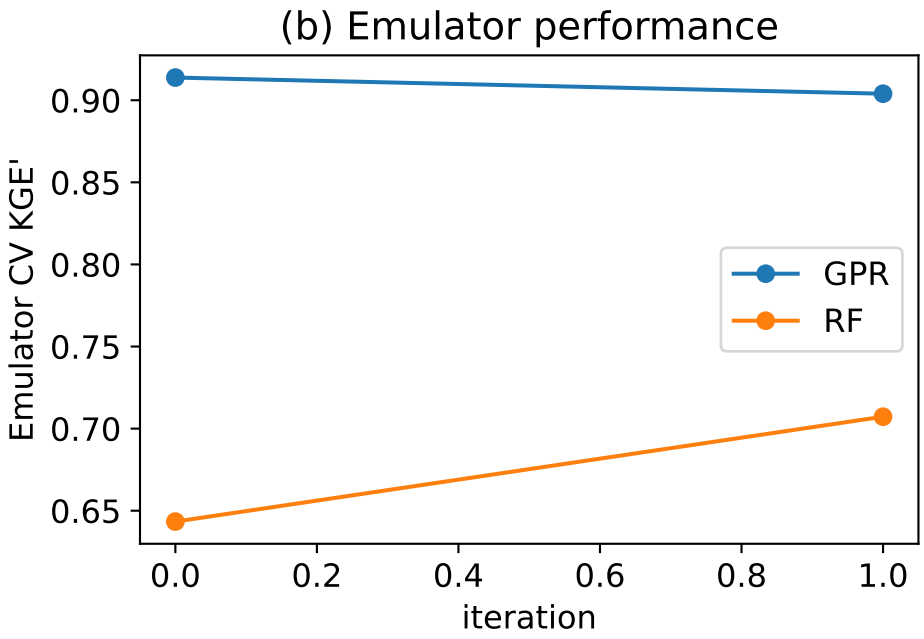


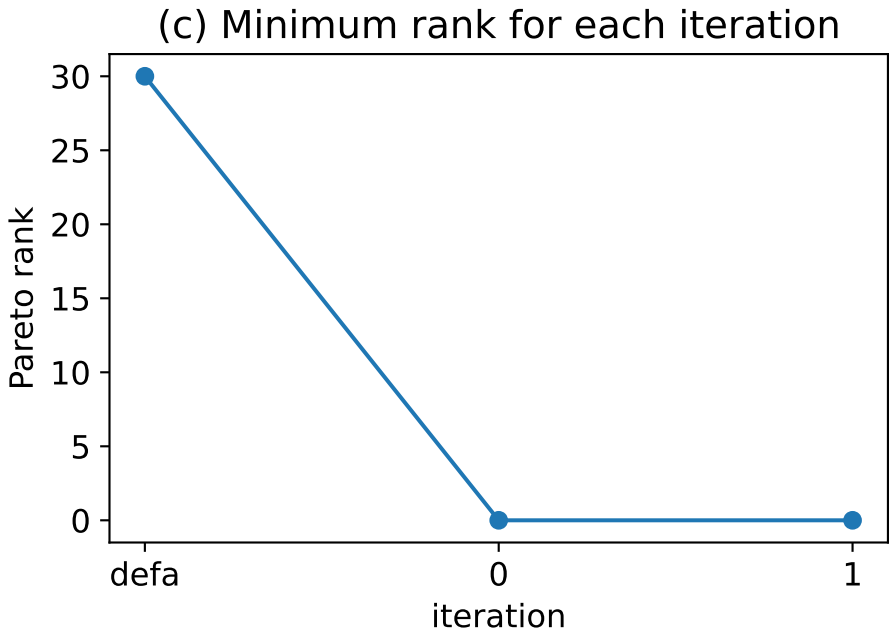


basinid: 150
hru_id: 2342933
lat_cen: 32.0259
lon_cen: -85.41945
AREA: 290.05 km2
elev_mean: 112.02 m

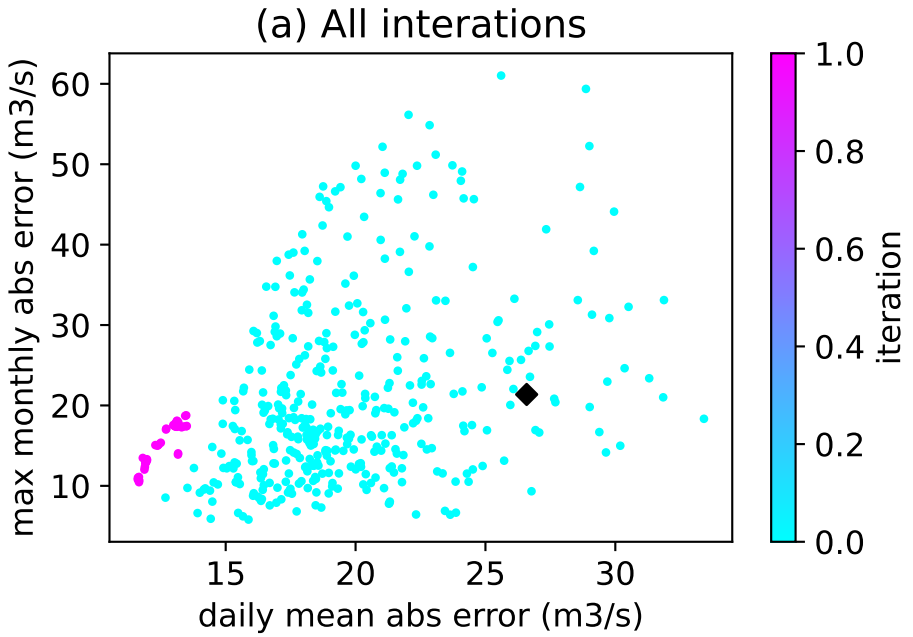

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 151
hru_id: 2349900
lat_cen: 32.24049
lon_cen: -83.83836
AREA: 124.29 km2
elev_mean: 109.30 m

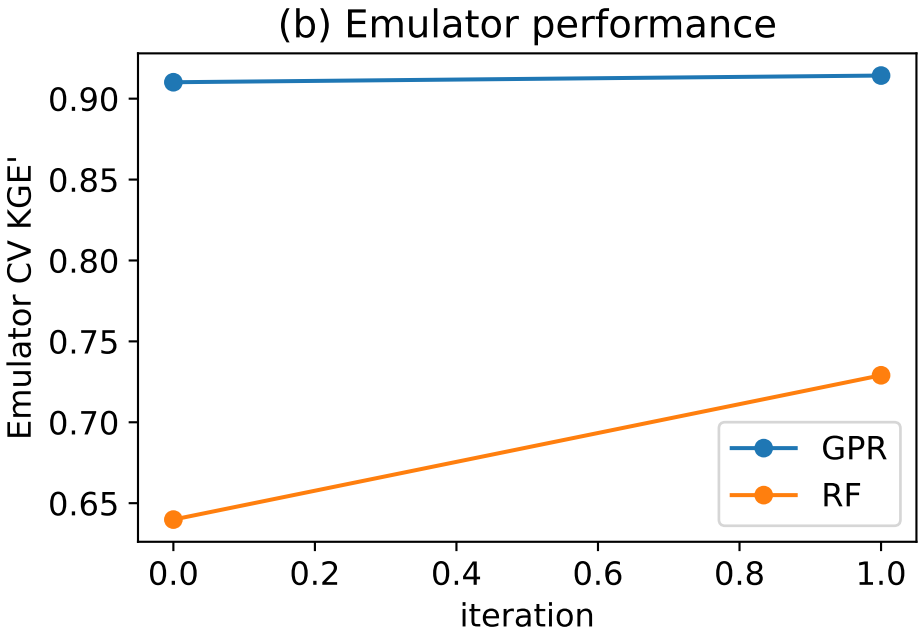


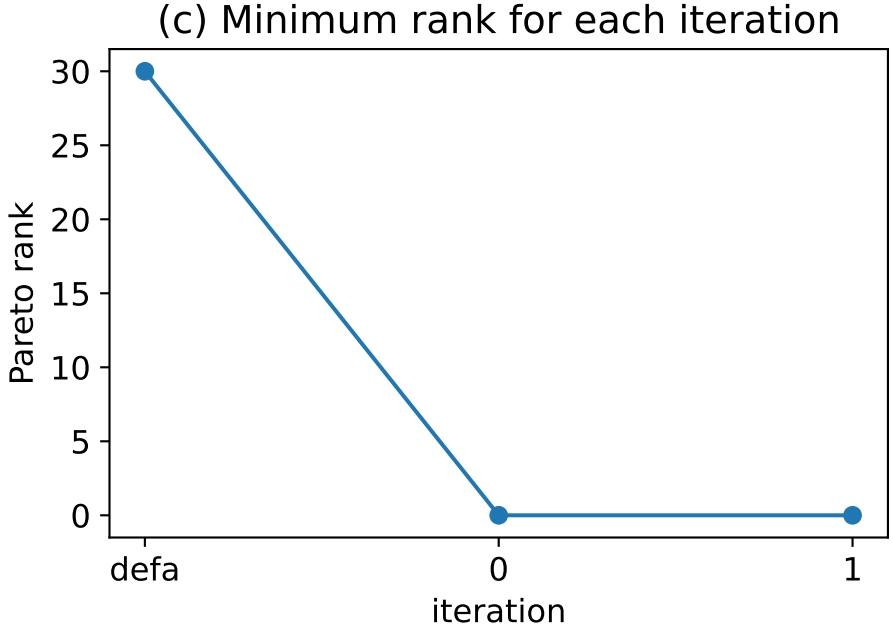




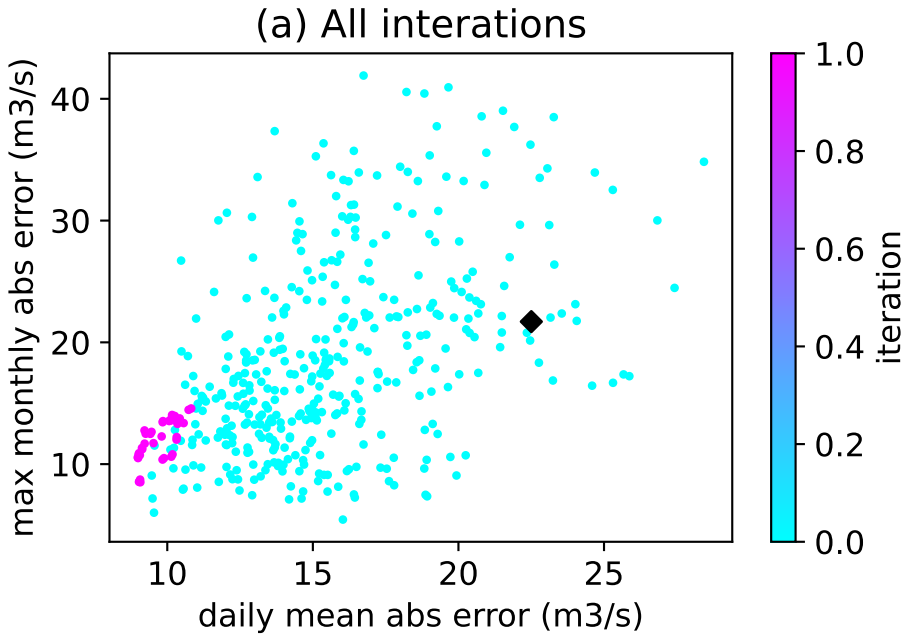
basinid: 152
hru_id: 2350900
lat_cen: 32.06963
lon_cen: -84.50098
AREA: 1365.62 km2
elev_mean: 140.63 m

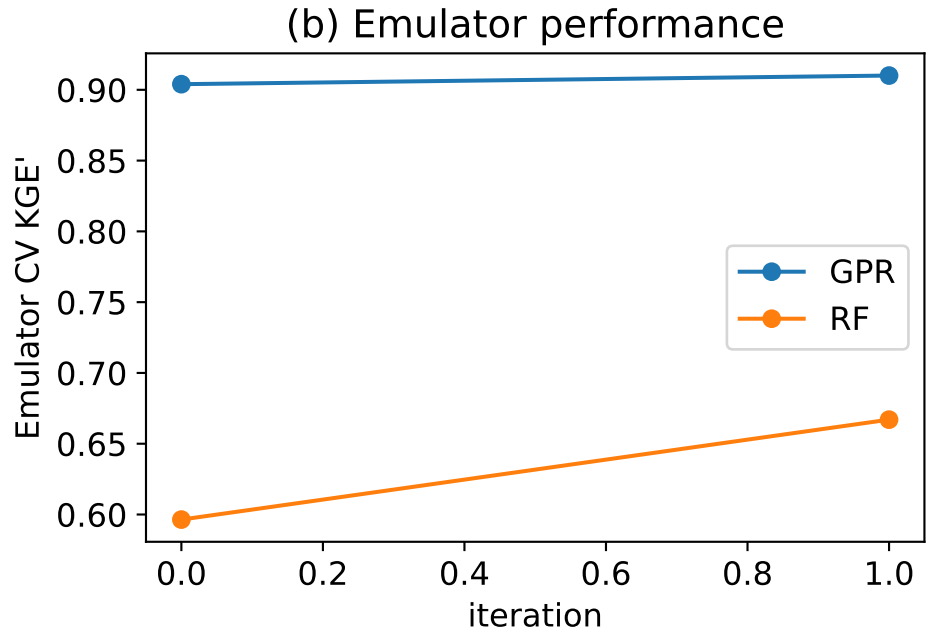


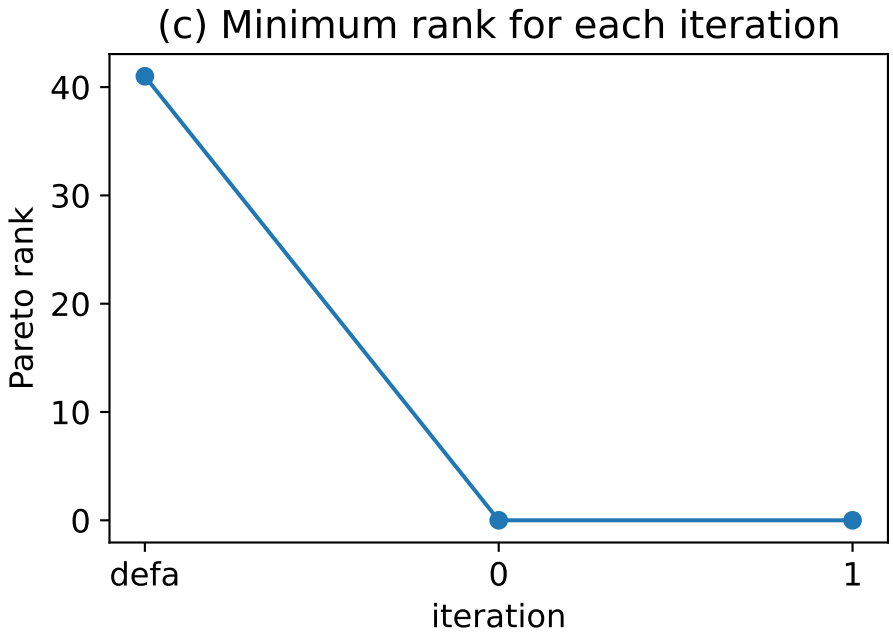




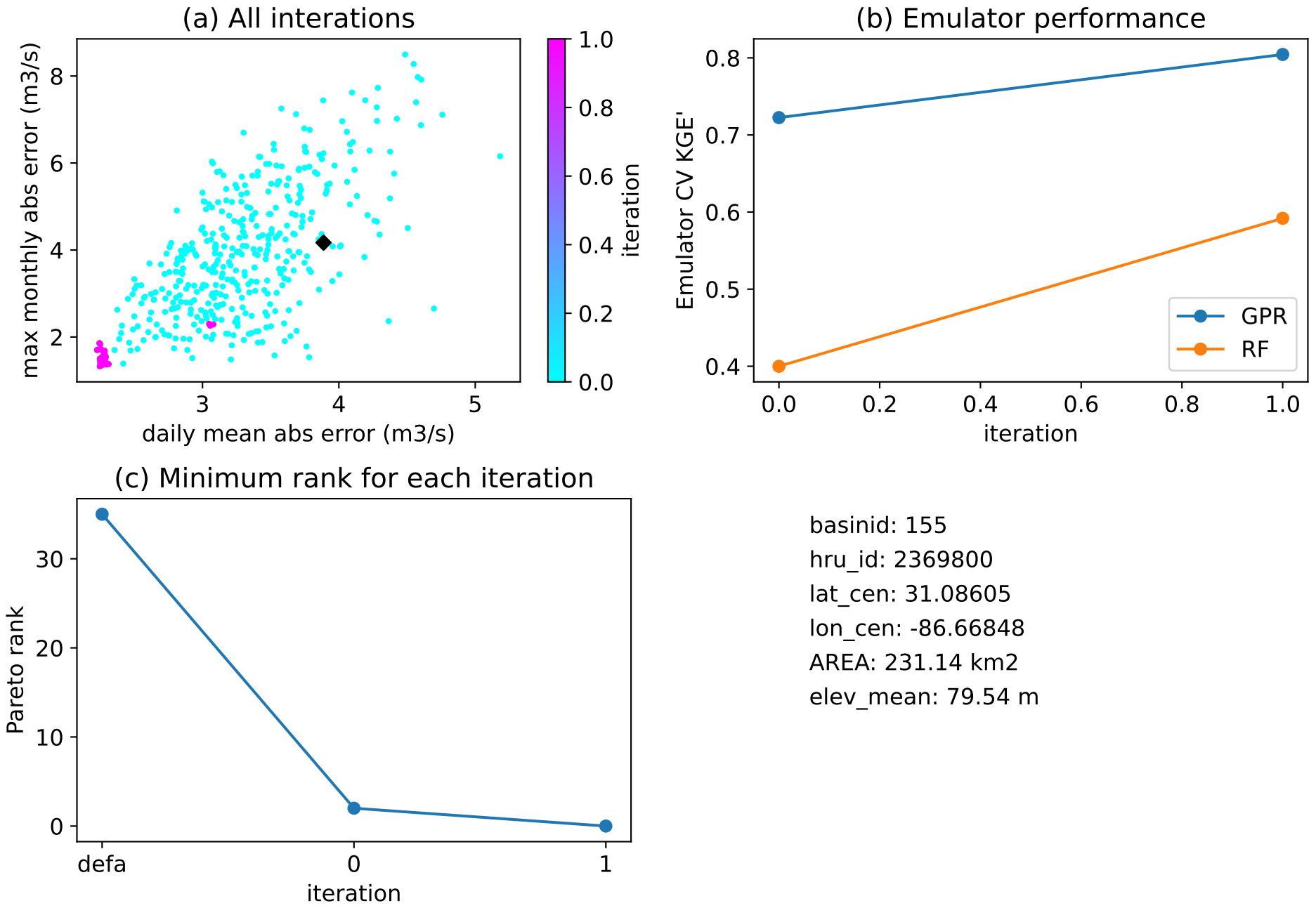
basinid: 153
hru_id: 2361000
lat_cen: 31.5878
lon_cen: -85.4648
AREA: 1779.33 km2
elev_mean: 115.22 m

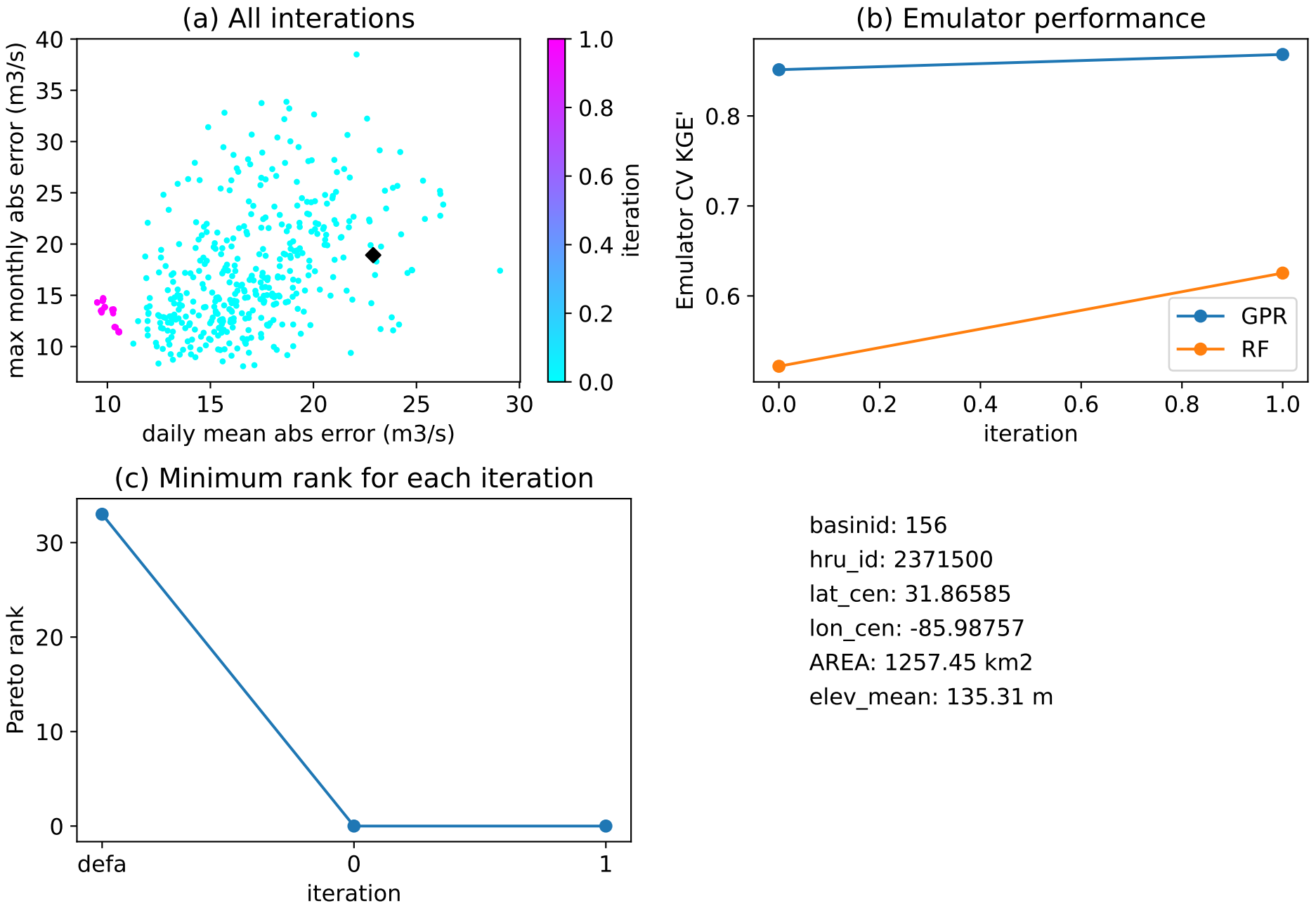


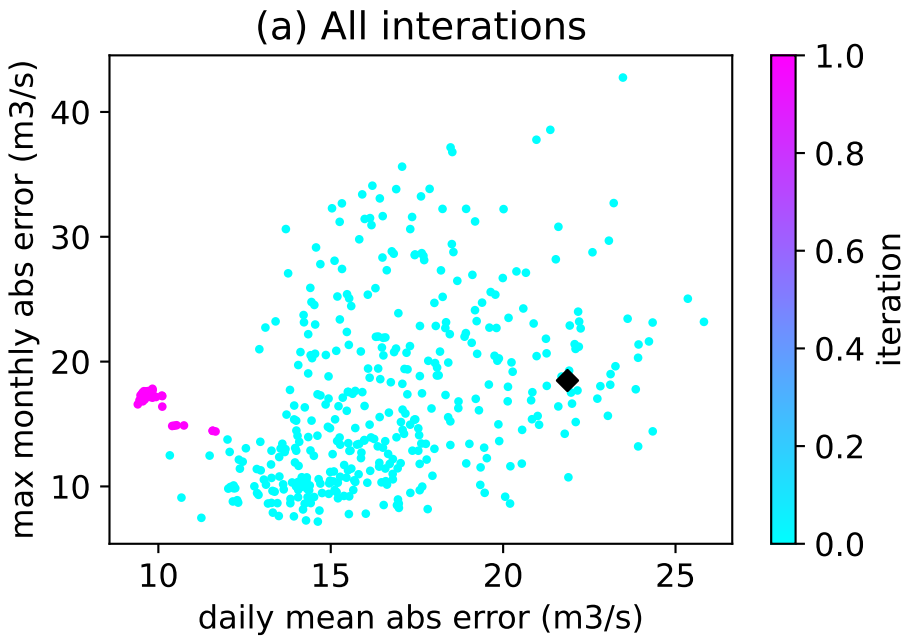


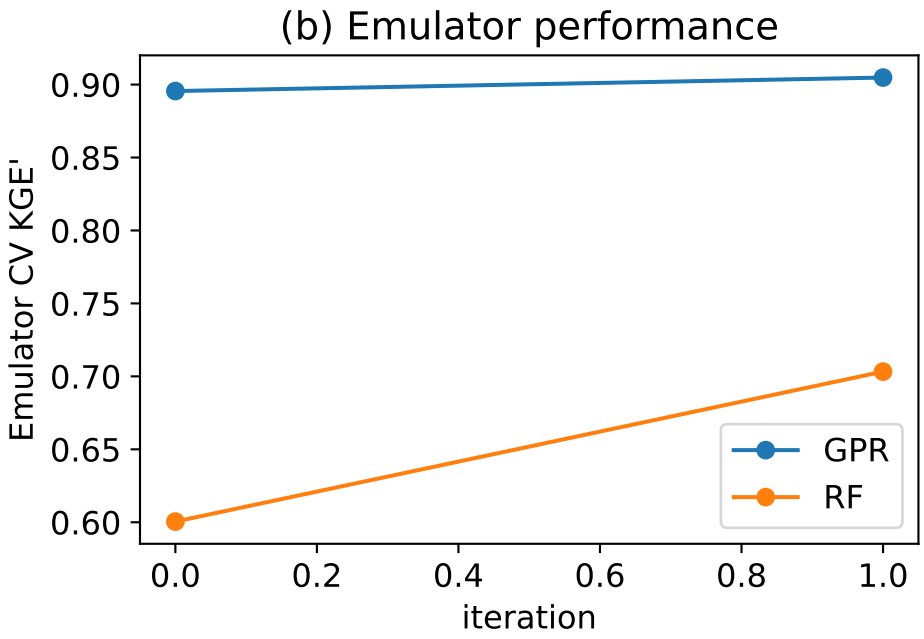


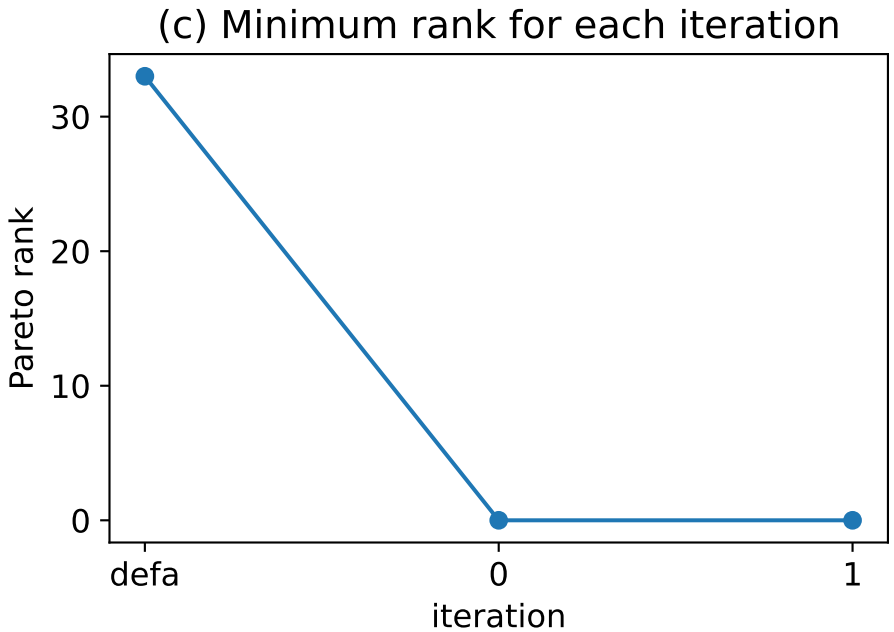
basinid: 154
hru_id: 2363000
lat_cen: 31.86853
lon_cen: -85.65737
AREA: 1292.64 km2
elev_mean: 137.30 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 155
hru_id: 2369800
lat_cen: 31.08605
lon_cen: -86.66848
AREA: 231.14 km2
elev_mean: 79.54 m

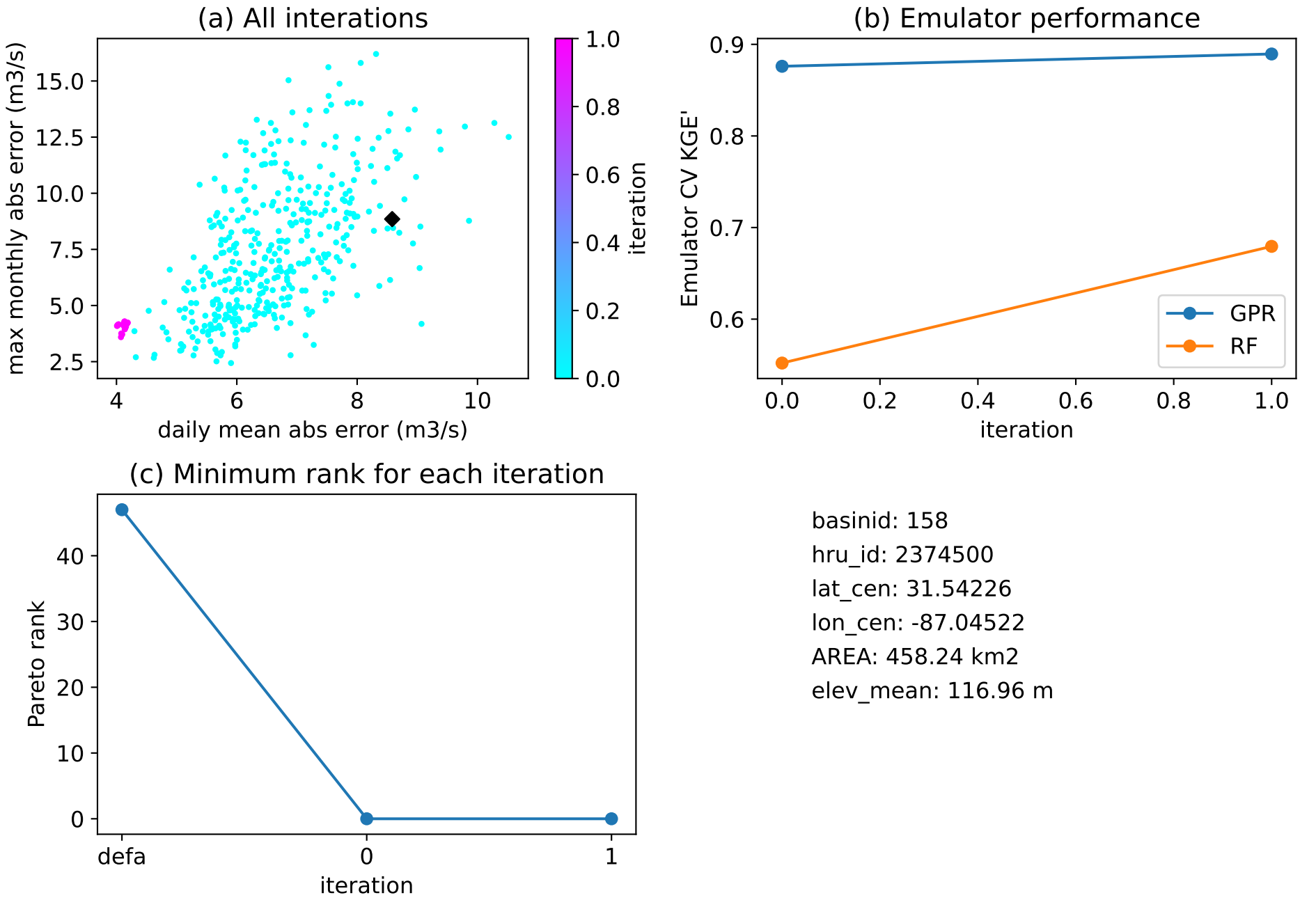

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 156
hru_id: 2371500
lat_cen: 31.86585
lon_cen: -85.98757
AREA: 1257.45 km2
elev_mean: 135.31 m

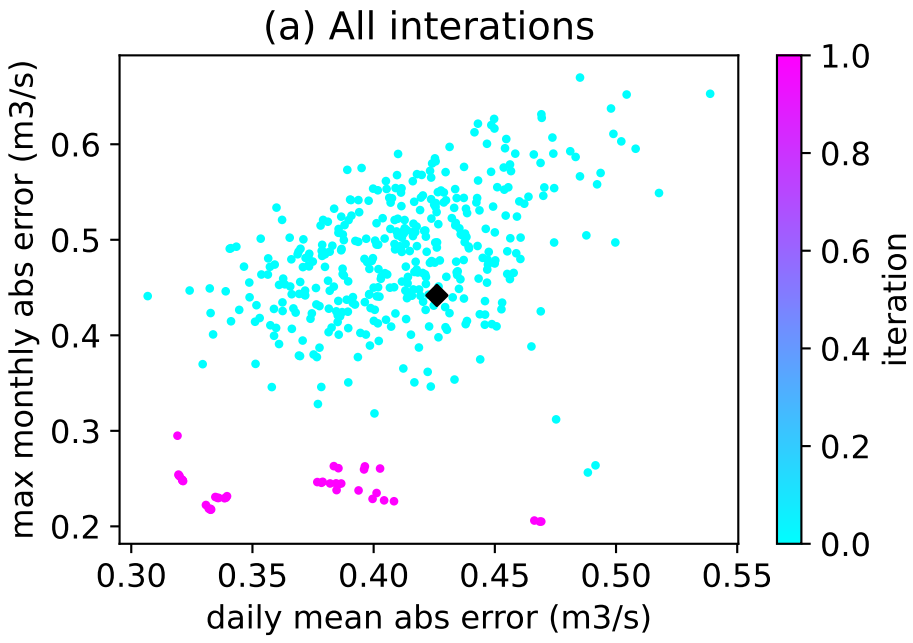


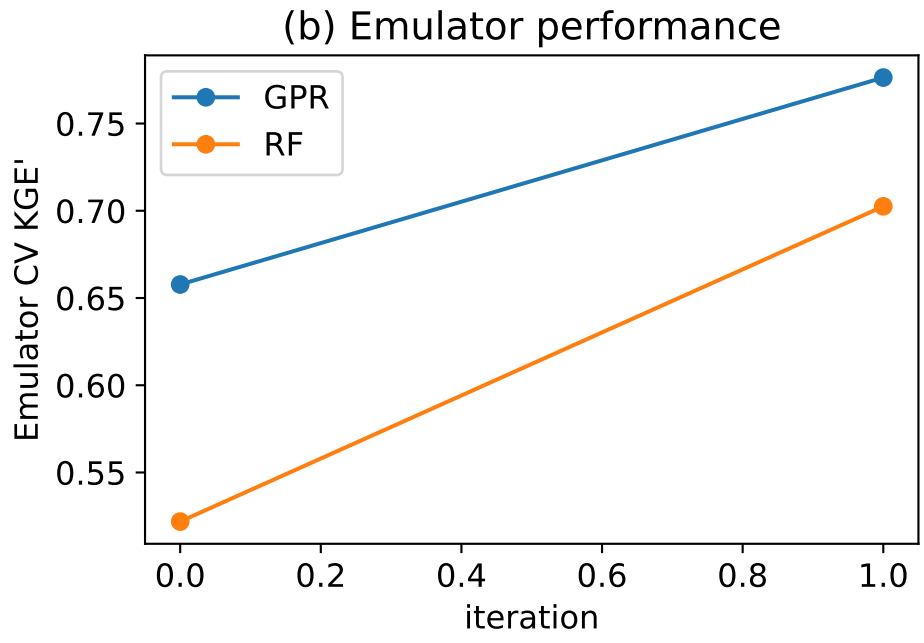


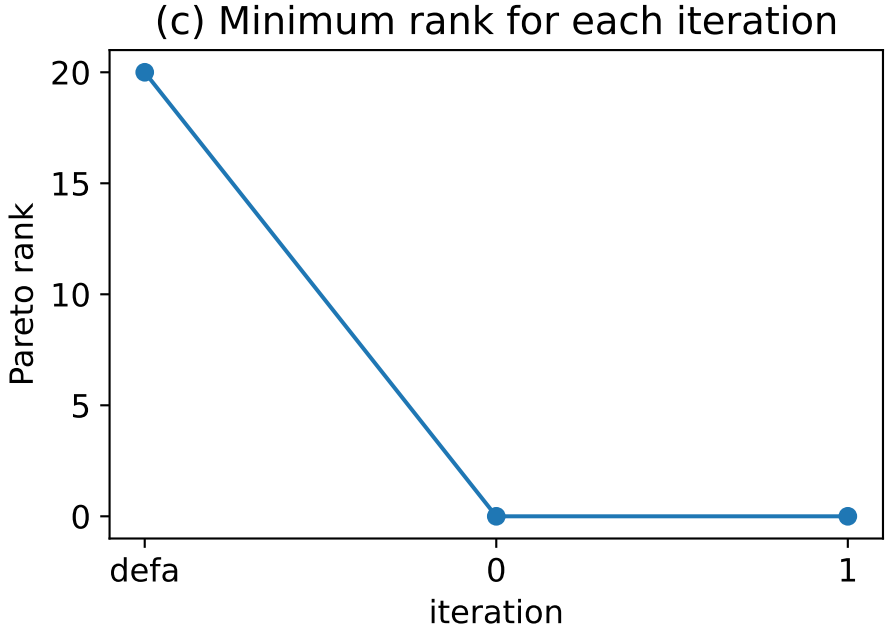


basinid: 157
hru_id: 2372250
lat_cen: 31.85455
lon_cen: -86.26075
AREA: 1145.58 km2
elev_mean: 136.96 m

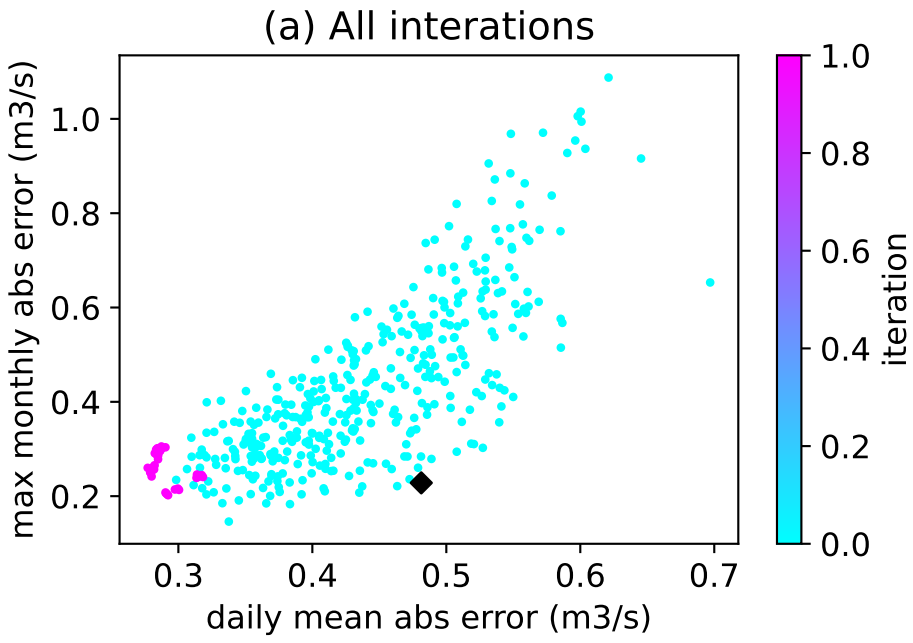

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 158
hru_id: 2374500
lat_cen: 31.54226
lon_cen: -87.04522
AREA: 458.24 km2
elev_mean: 116.96 m

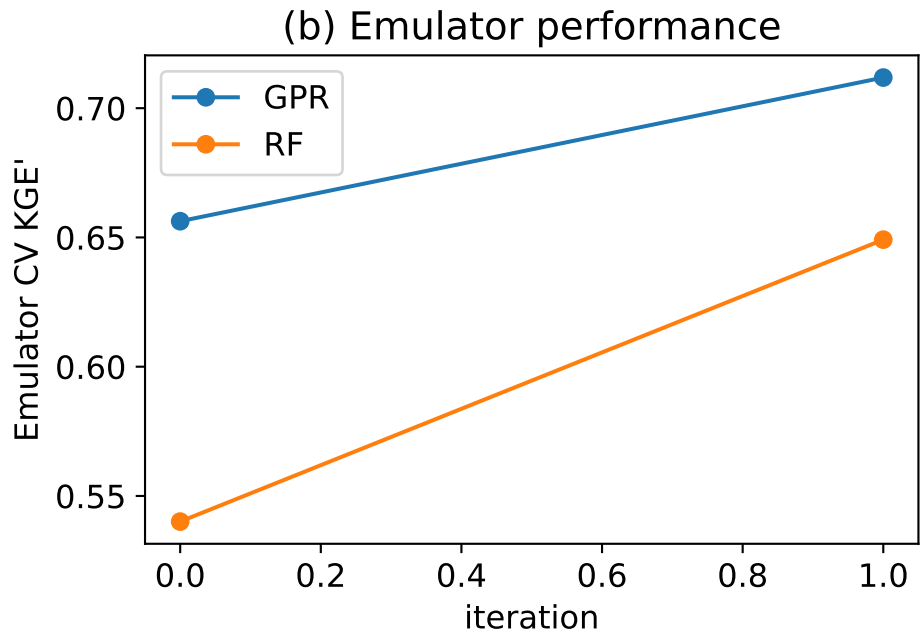


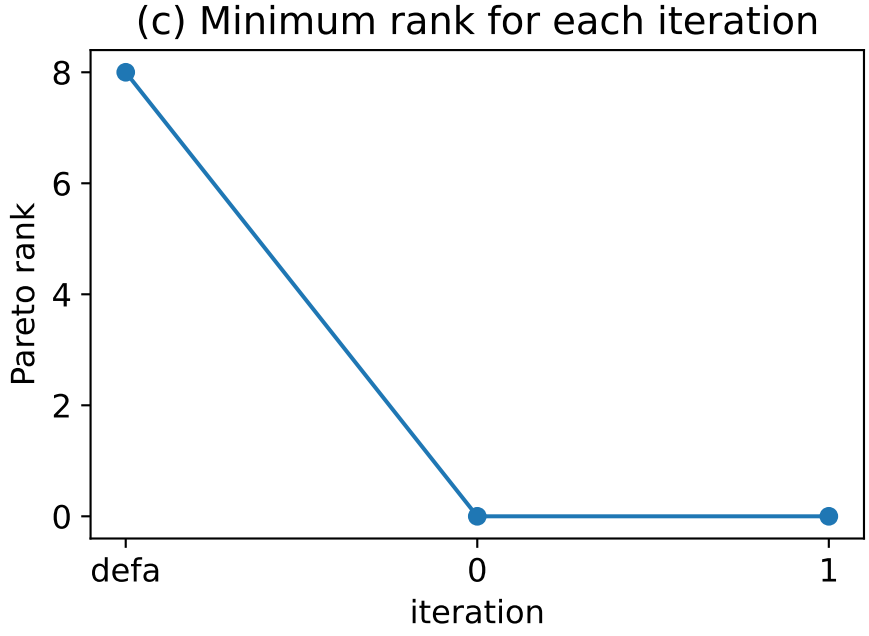




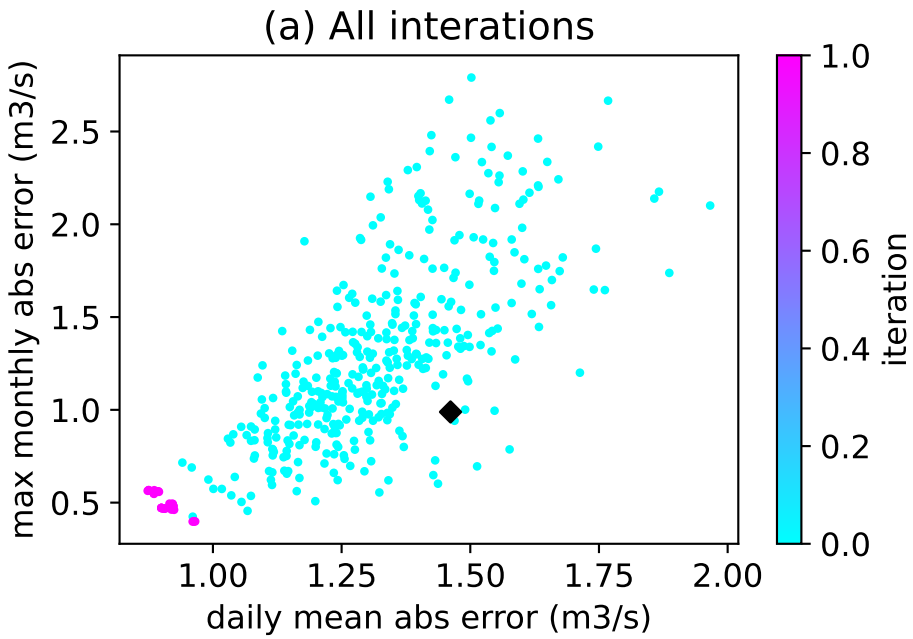
basinid: 159
hru_id: 2381600
lat_cen: 34.58065
lon_cen: -84.44773
AREA: 10.33 km2
elev_mean: 487.50 m

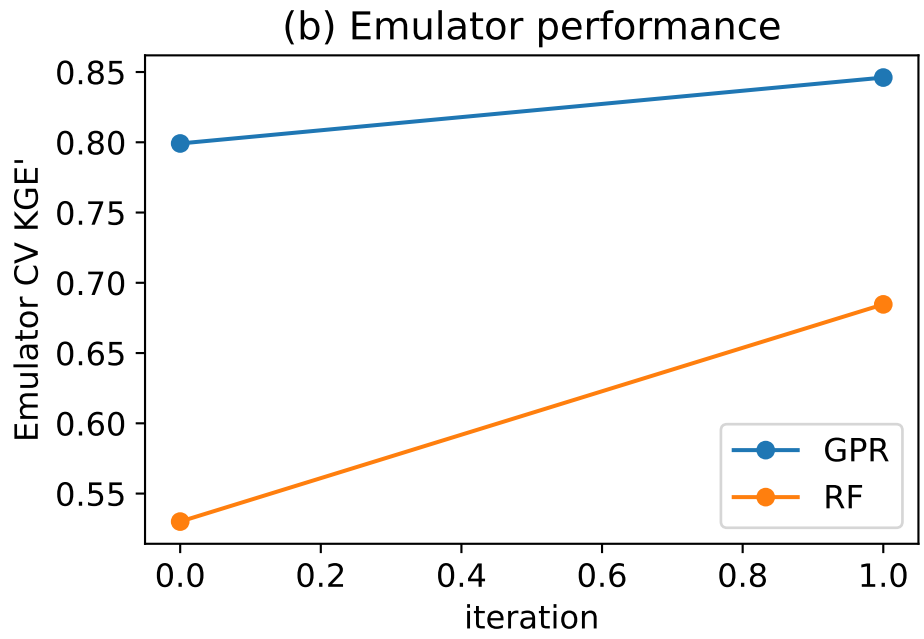


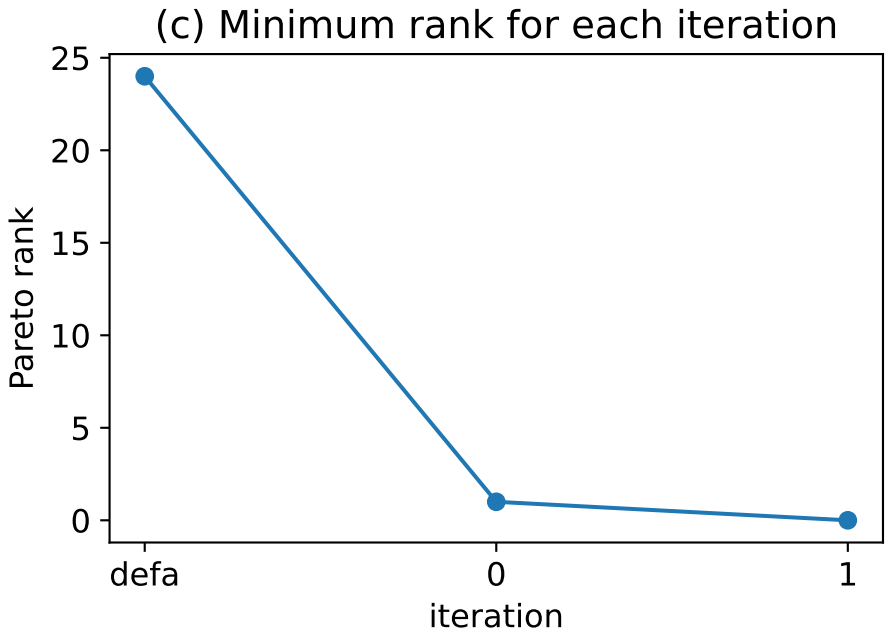




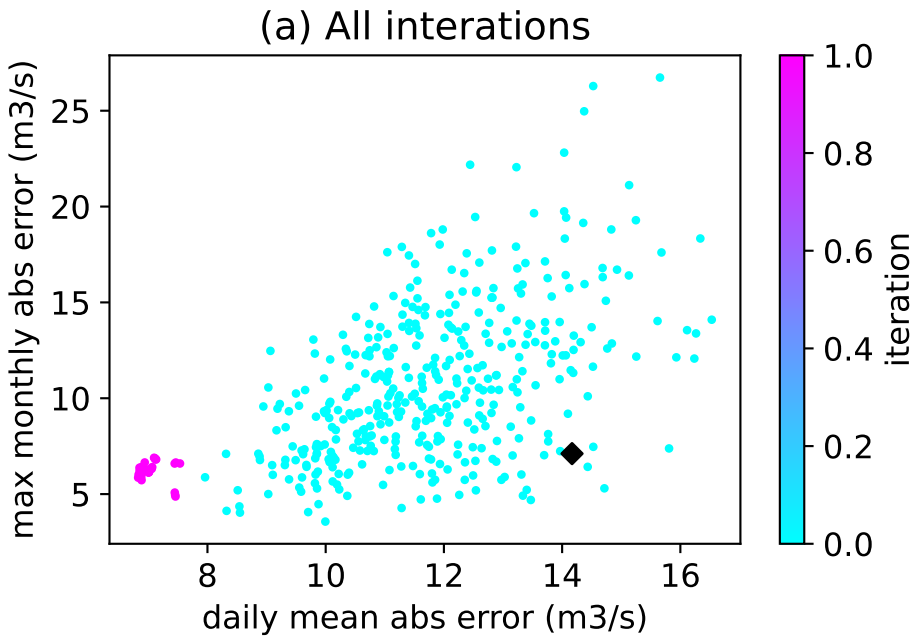
basinid: 160
hru_id: 2384540
lat_cen: 34.87645
lon_cen: -84.67944
AREA: 22.13 km2
elev_mean: 683.14 m

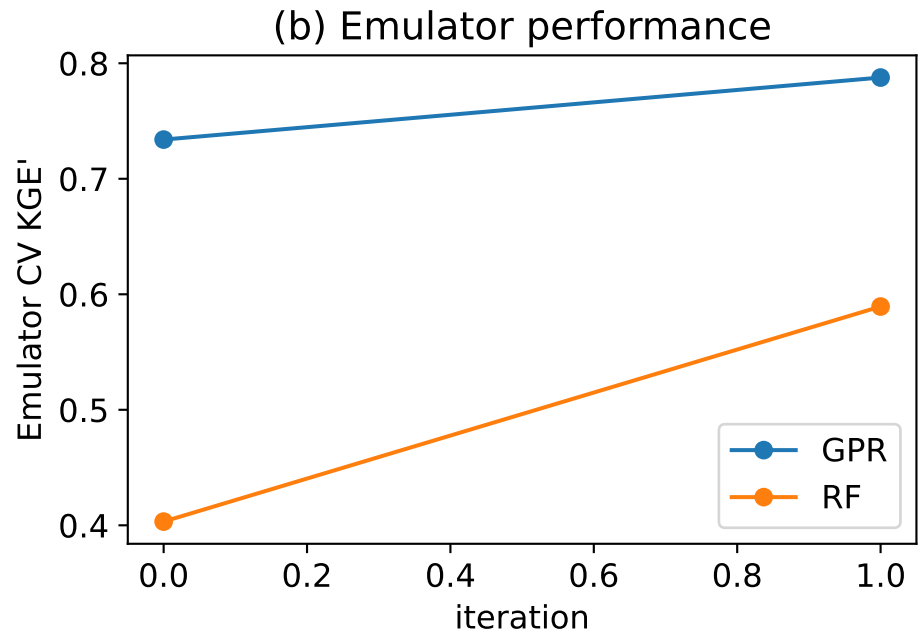


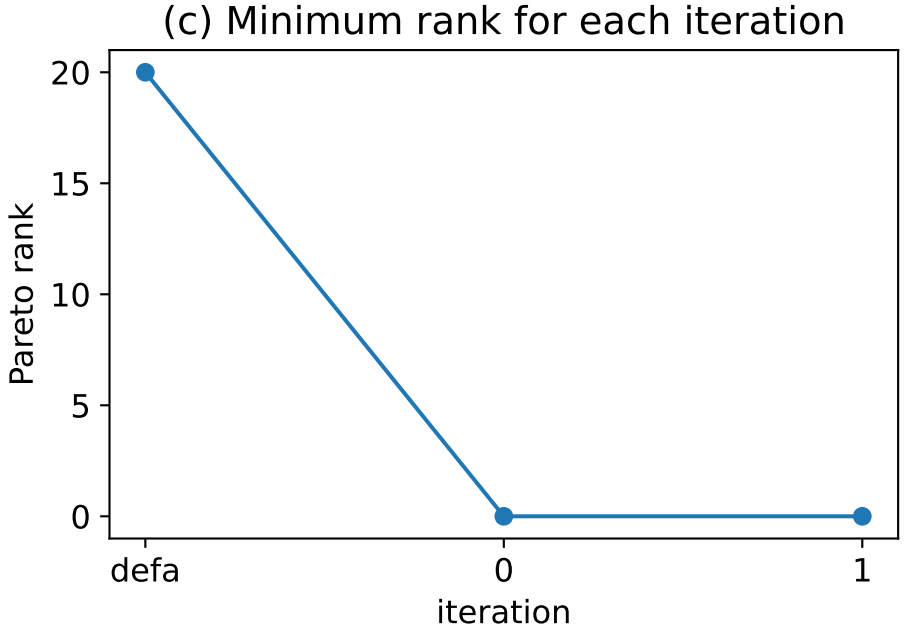




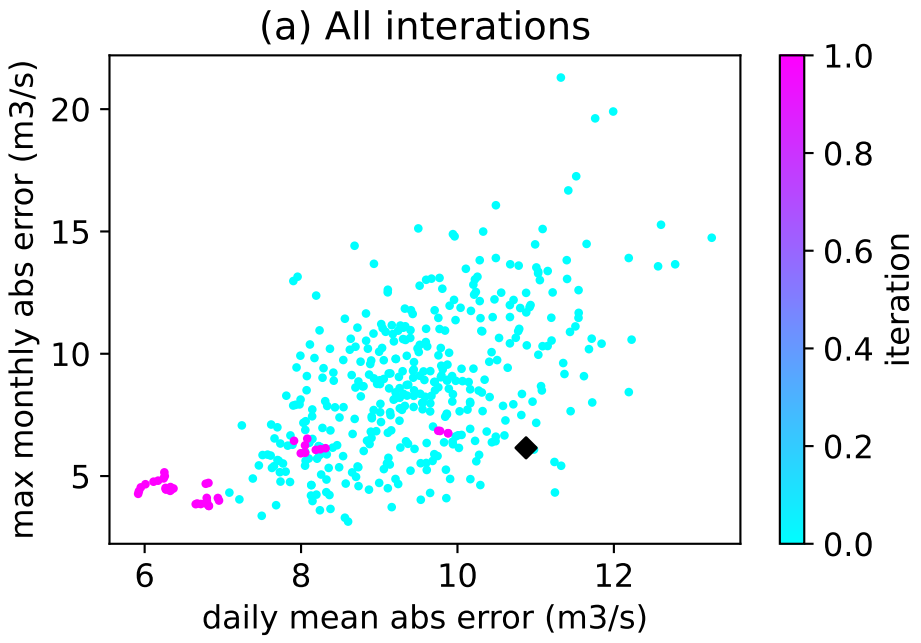
basinid: 161
hru_id: 2395120
lat_cen: 34.29213
lon_cen: -84.85154
AREA: 85.27 km2
elev_mean: 269.55 m

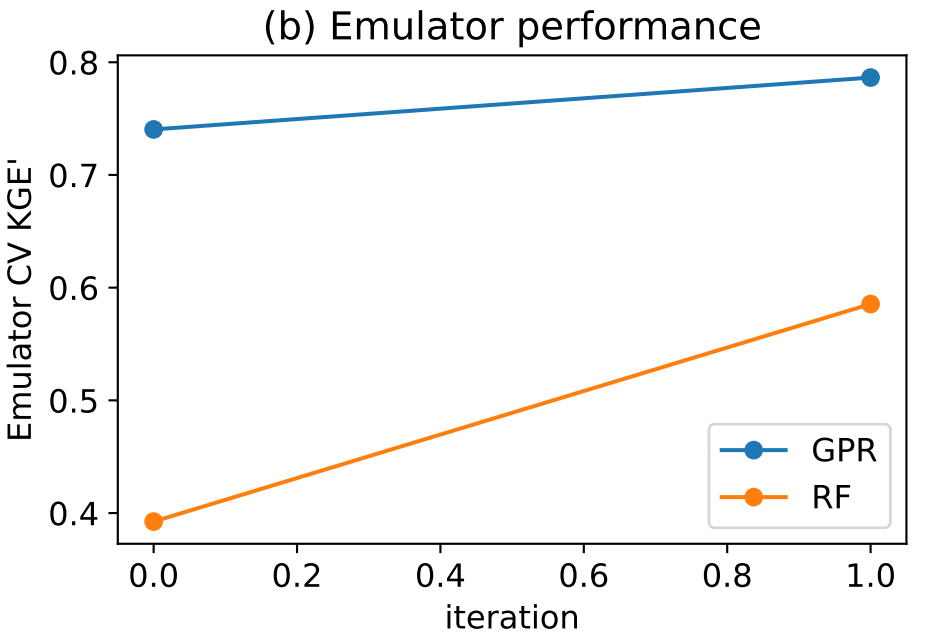


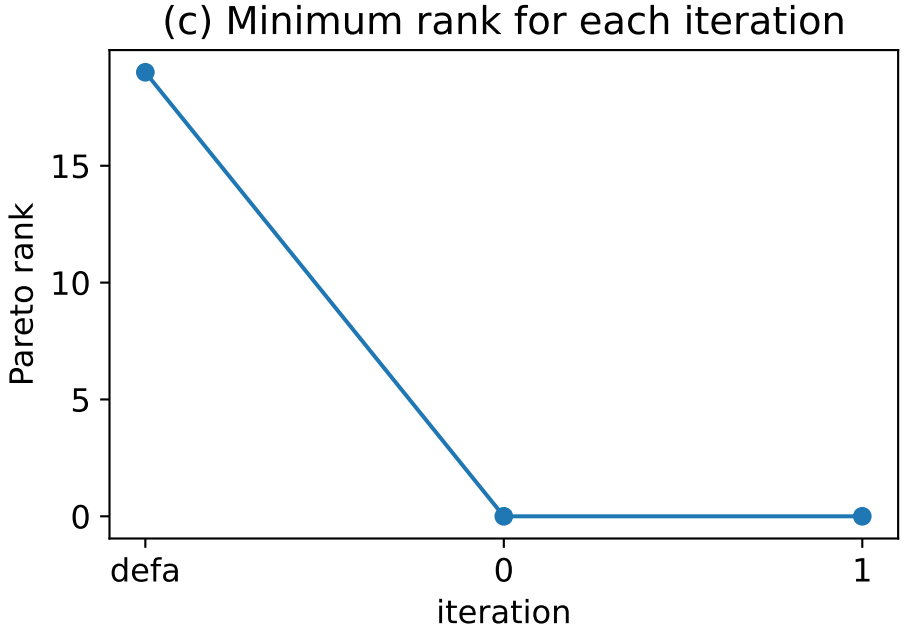




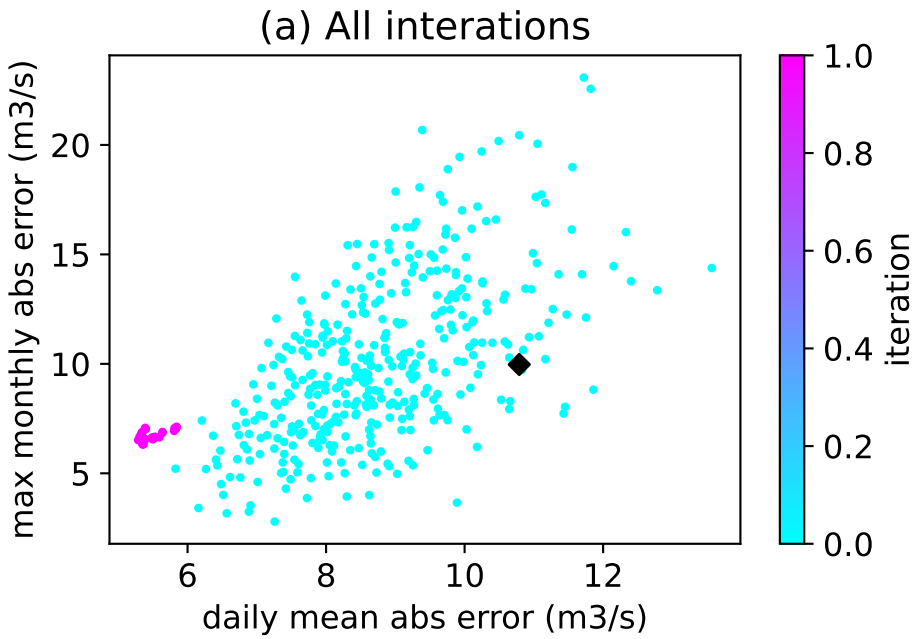
basinid: 162
hru_id: 2408540
lat_cen: 33.0645
lon_cen: -86.10783
AREA: 683.87 km2
elev_mean: 248.09 m

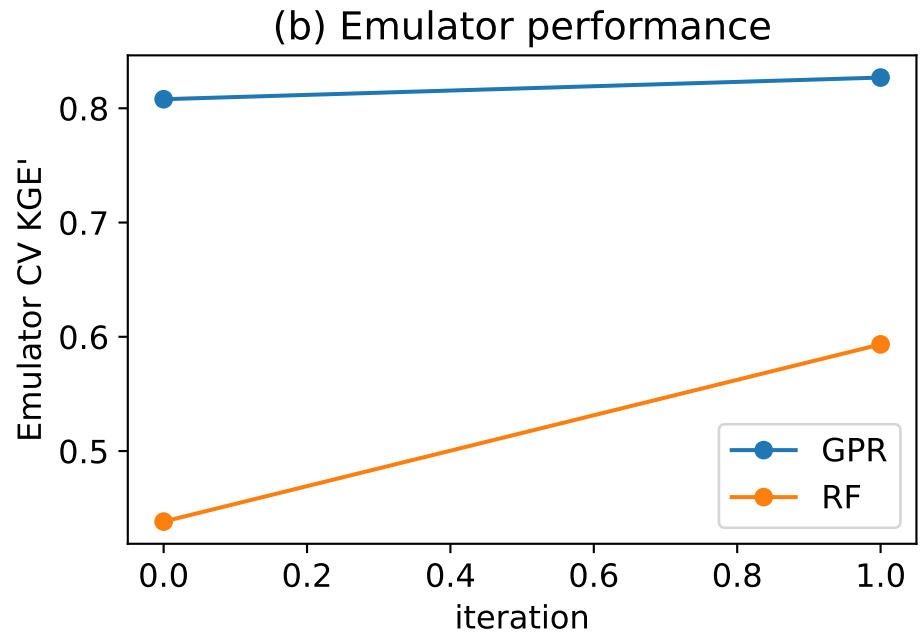


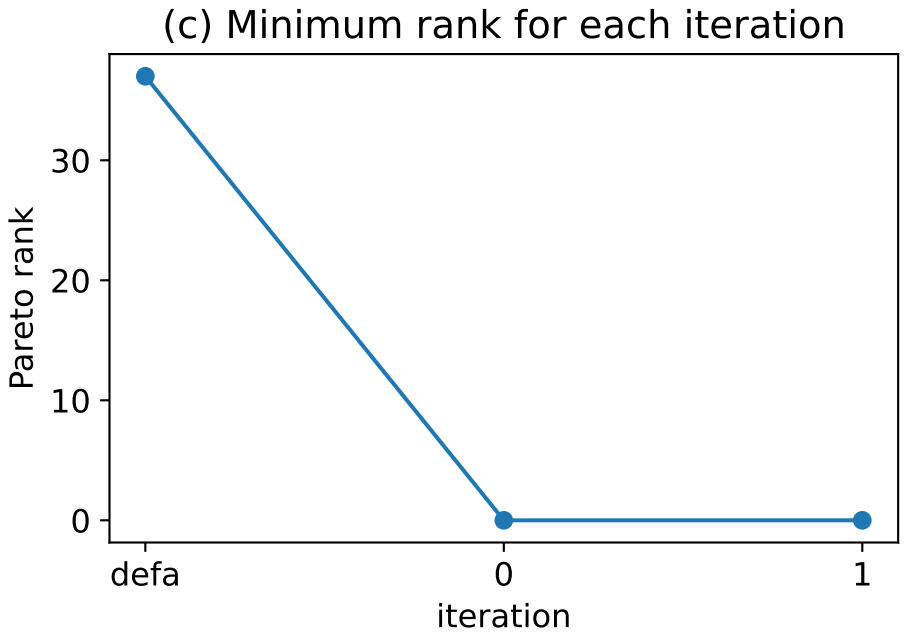




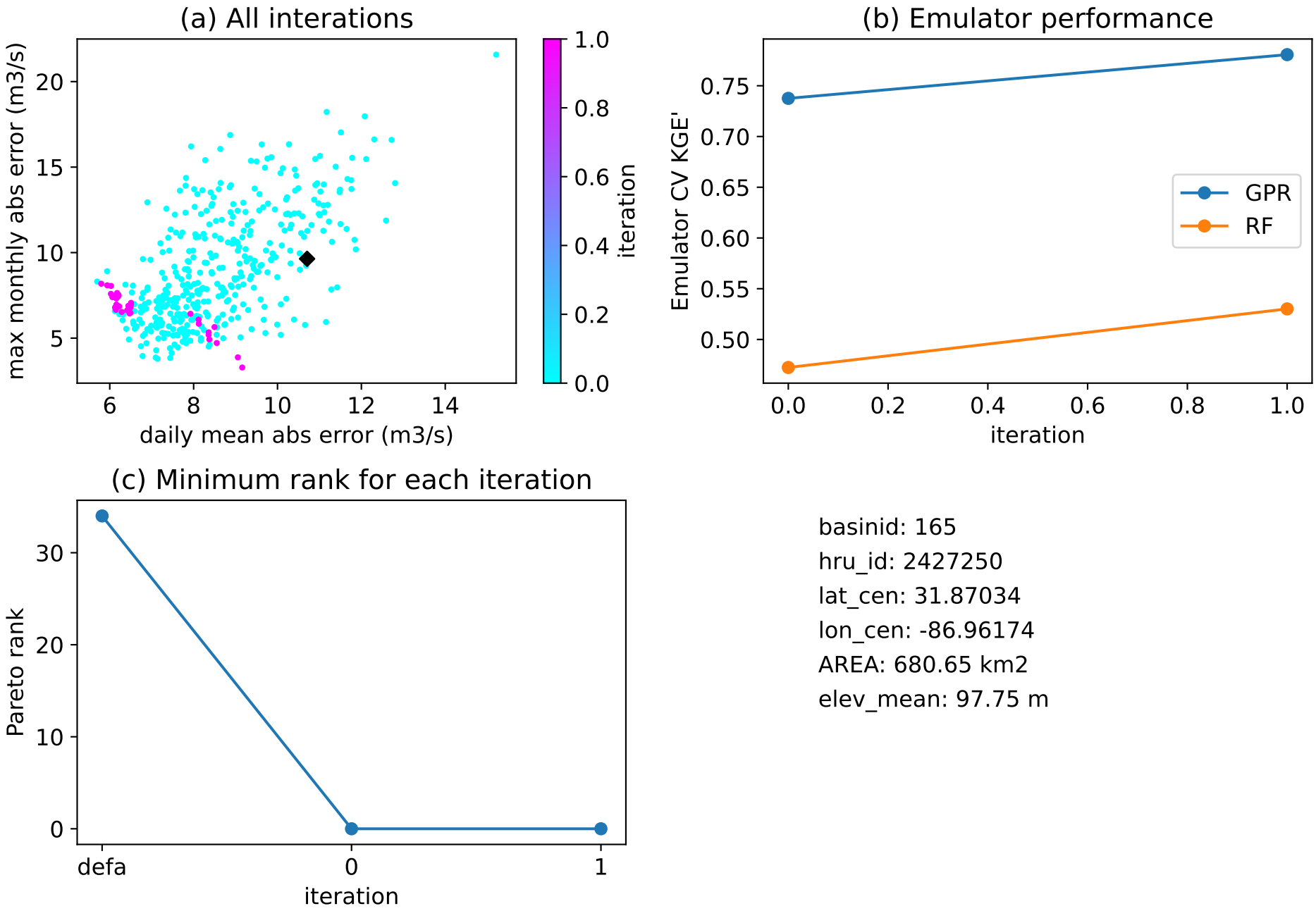
basinid: 163
hru_id: 2415000
lat_cen: 33.1761
lon_cen: -85.8773
AREA: 491.75 km2
elev_mean: 284.87 m

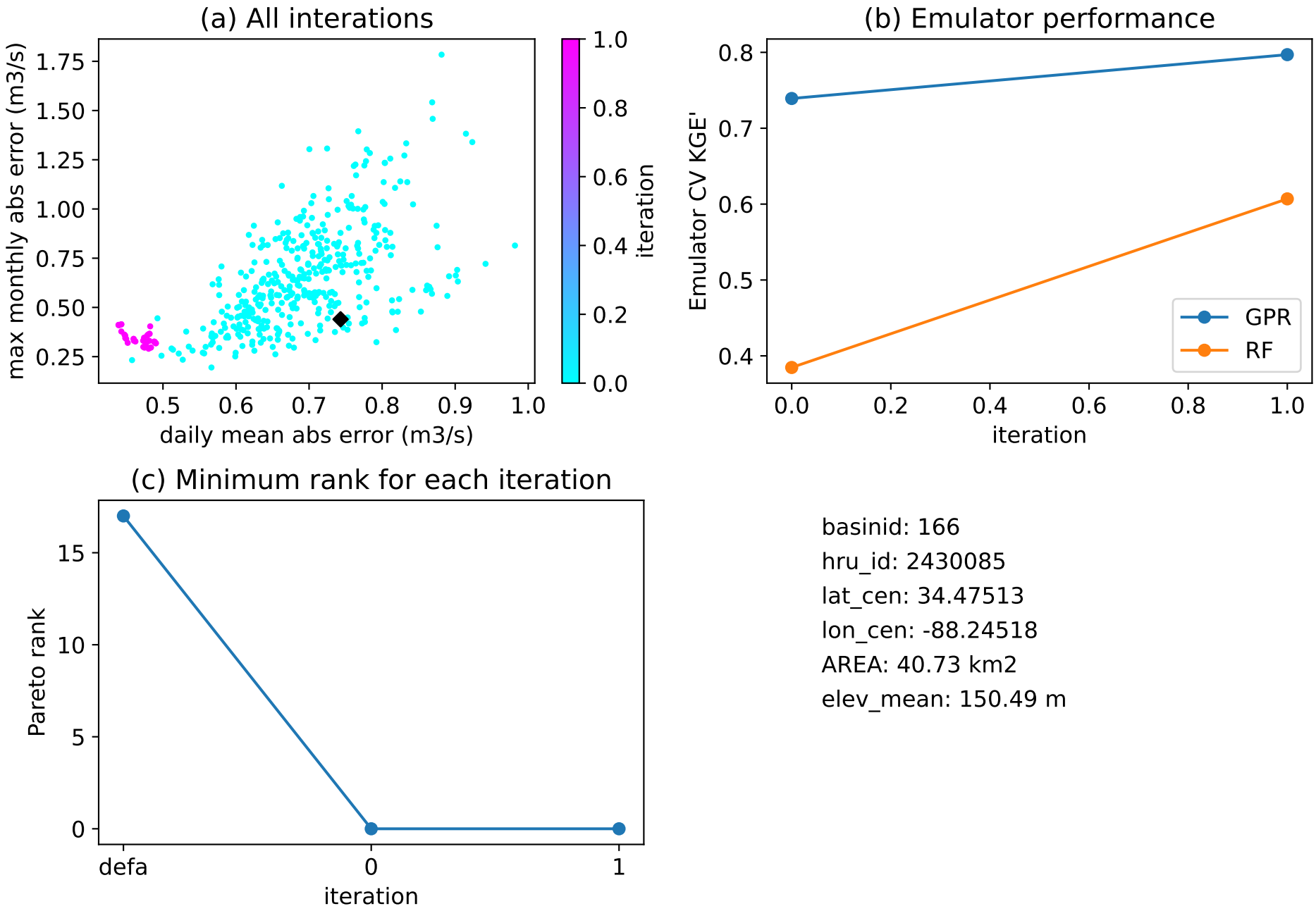


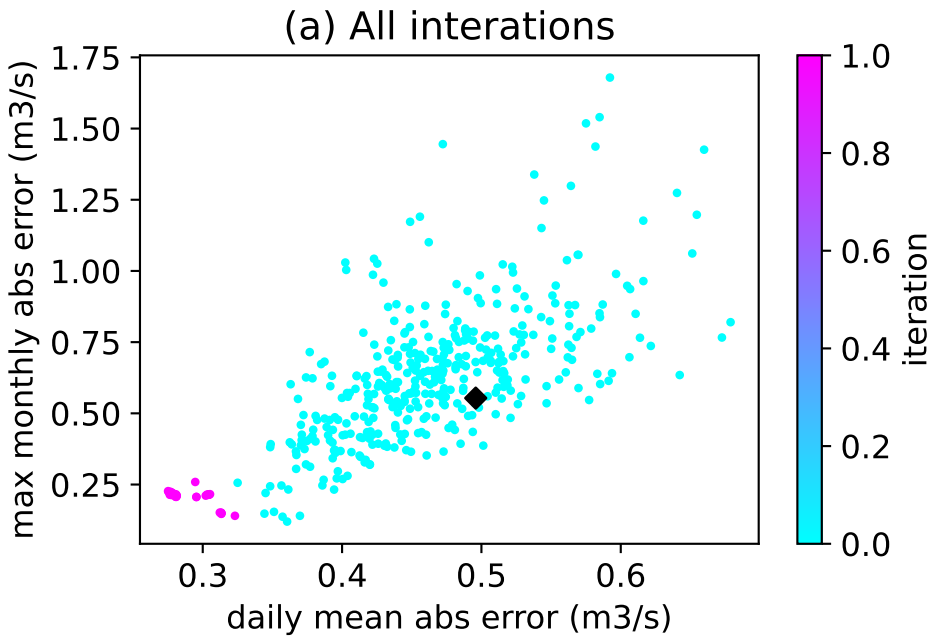


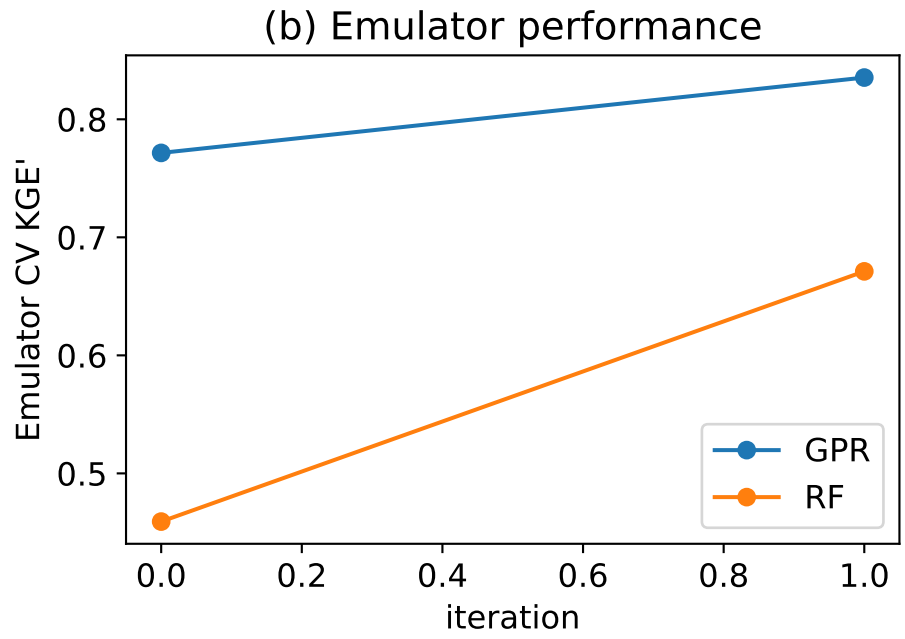


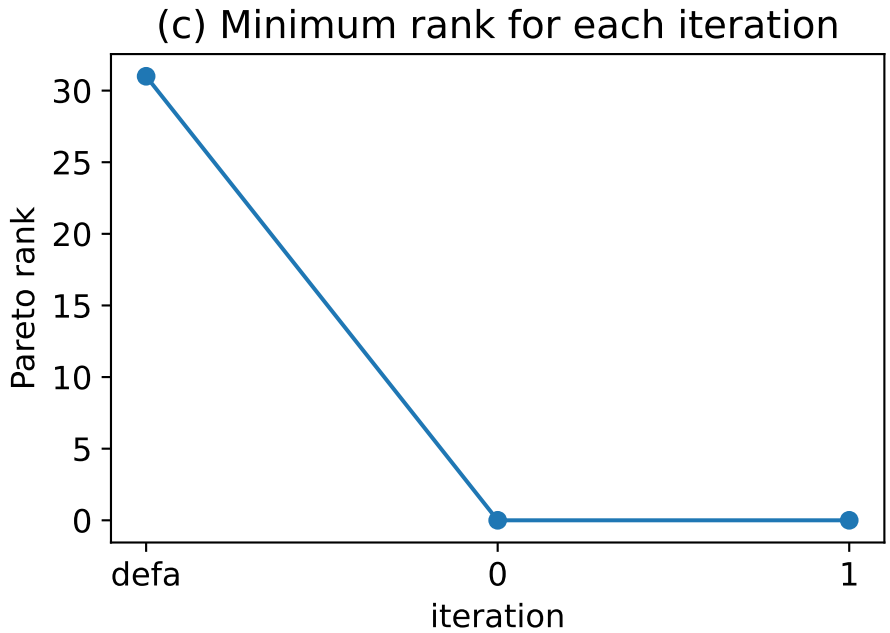
basinid: 164
hru_id: 2422500
lat_cen: 32.80011
lon_cen: -86.8317
AREA: 599.96 km2
elev_mean: 145.43 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 165
hru_id: 2427250
lat_cen: 31.87034
lon_cen: -86.96174
AREA: 680.65 km2
elev_mean: 97.75 m

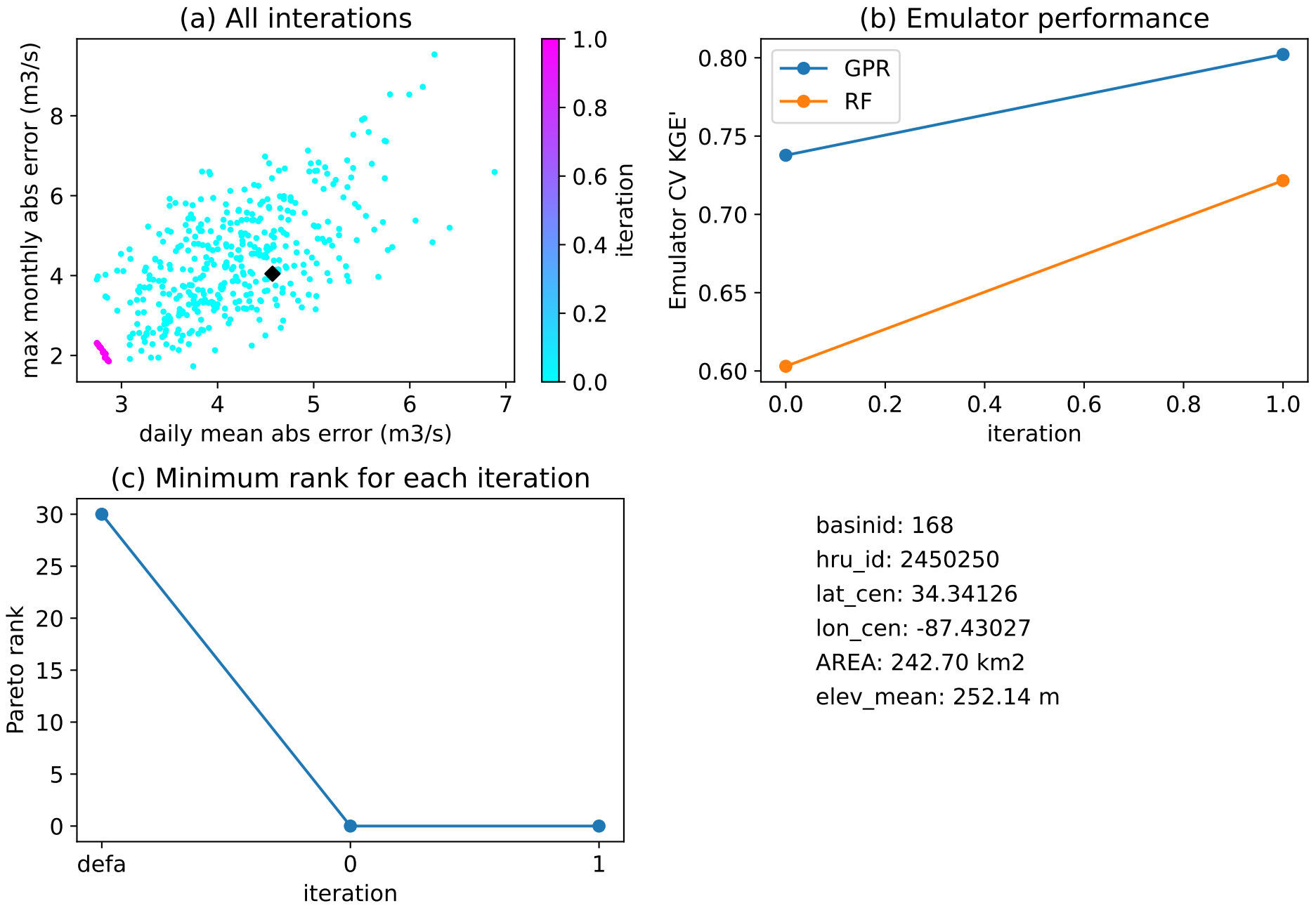

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 166
hru_id: 2430085
lat_cen: 34.47513
lon_cen: -88.24518
AREA: 40.73 km2
elev_mean: 150.49 m

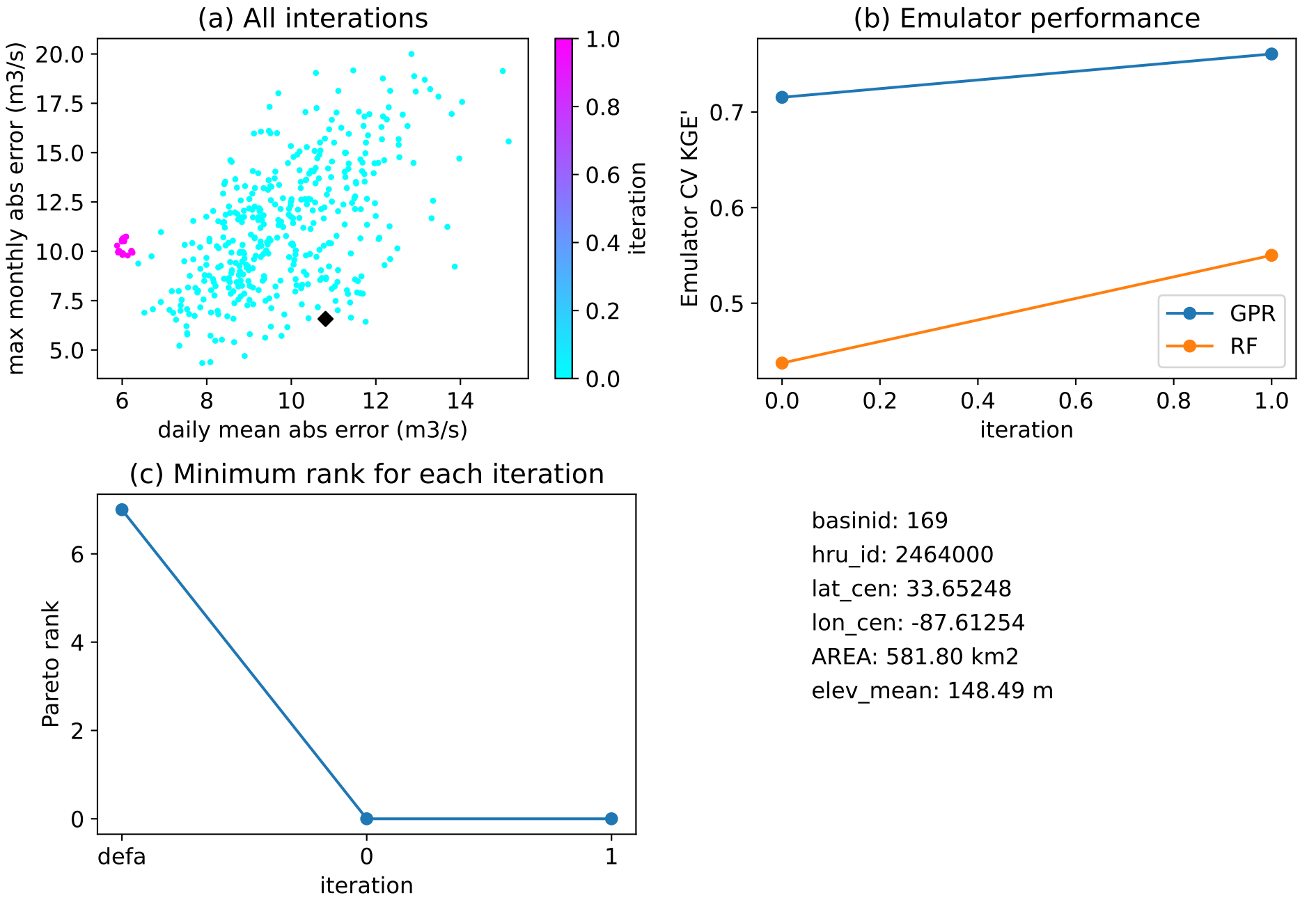


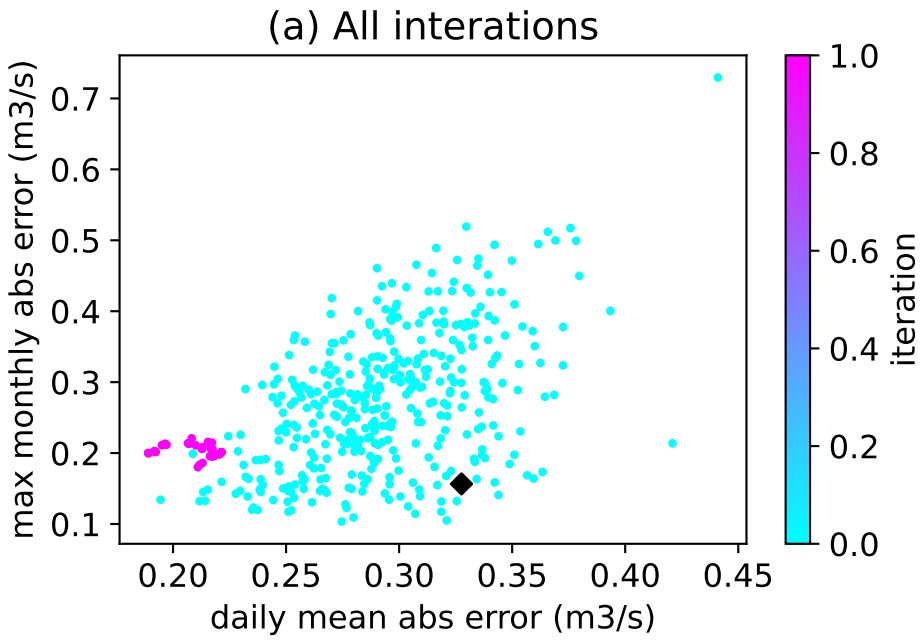


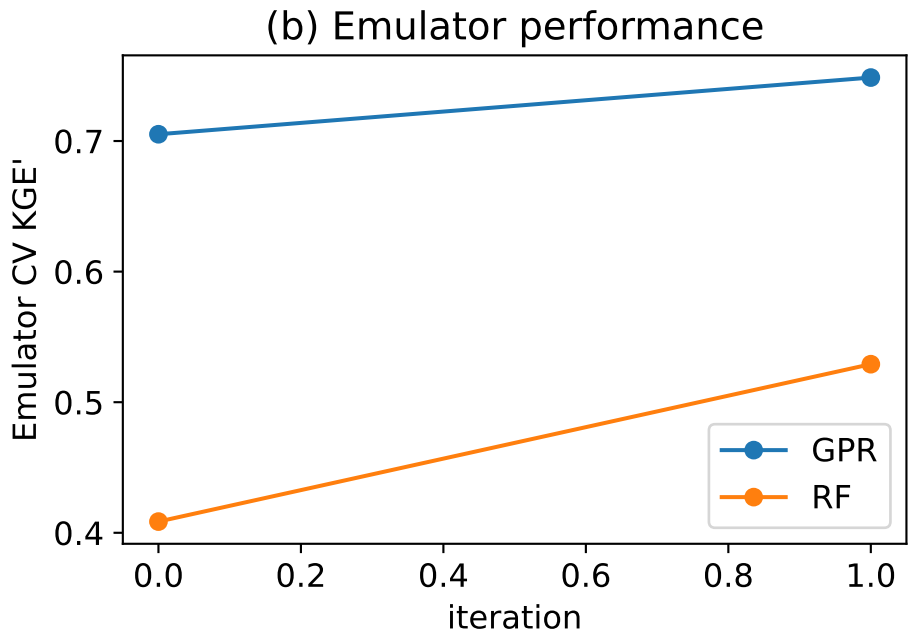


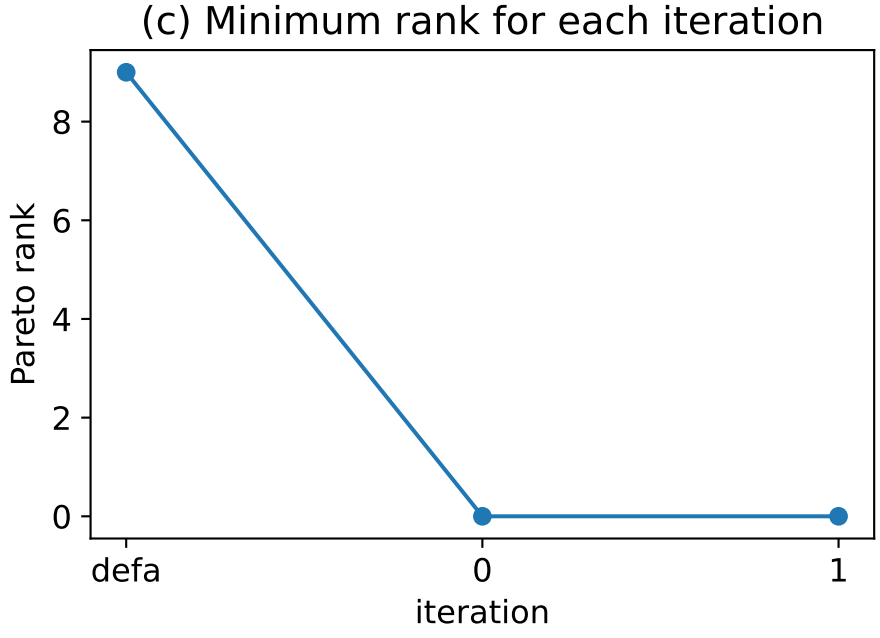
basinid: 167
hru_id: 2430615
lat_cen: 34.40587
lon_cen: -88.33822
AREA: 32.52 km2
elev_mean: 146.45 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 168
hru_id: 2450250
lat_cen: 34.34126
lon_cen: -87.43027
AREA: 242.70 km2
elev_mean: 252.14 m

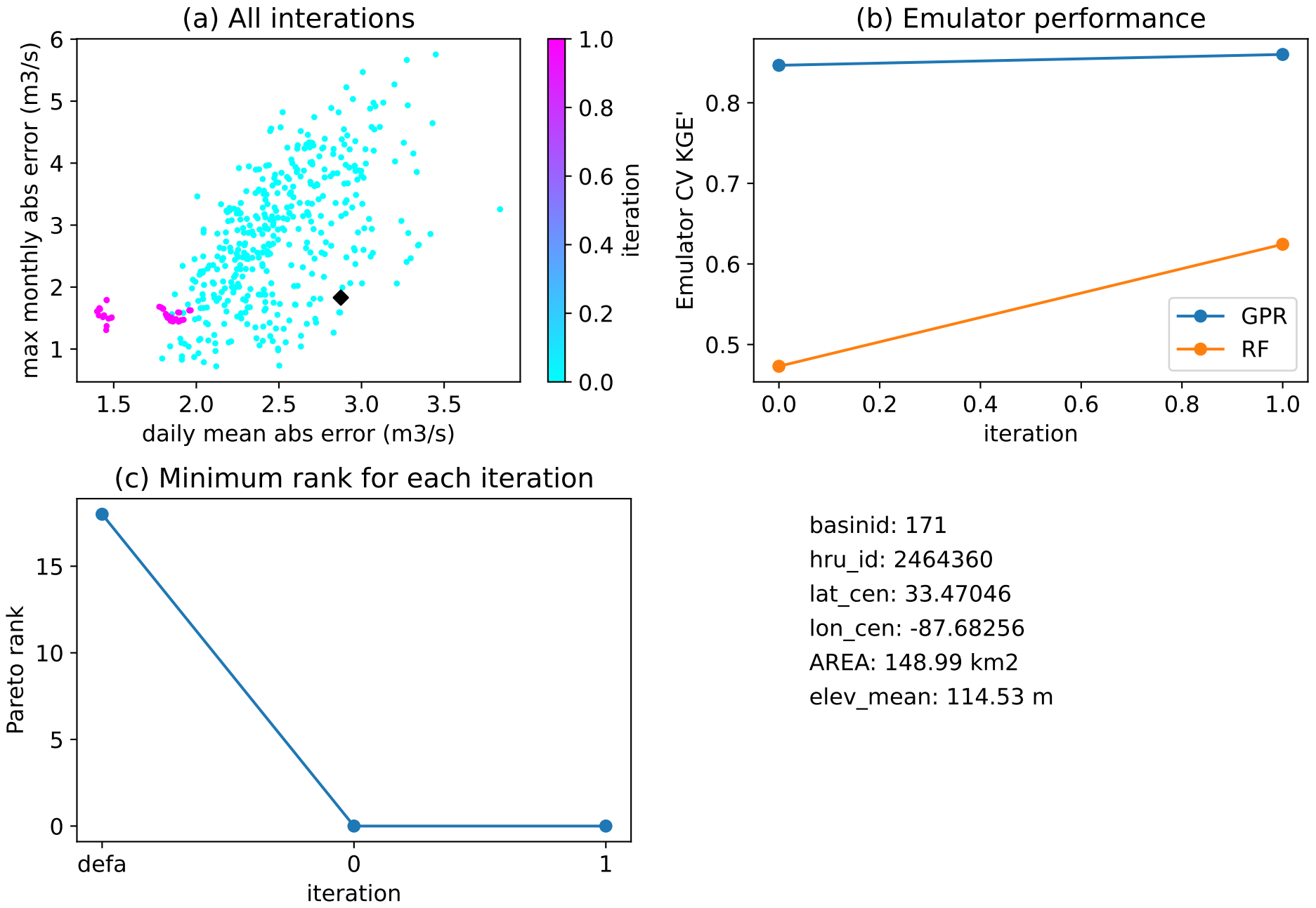

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 169
hru_id: 2464000
lat_cen: 33.65248
lon_cen: -87.61254
AREA: 581.80 km2
elev_mean: 148.49 m

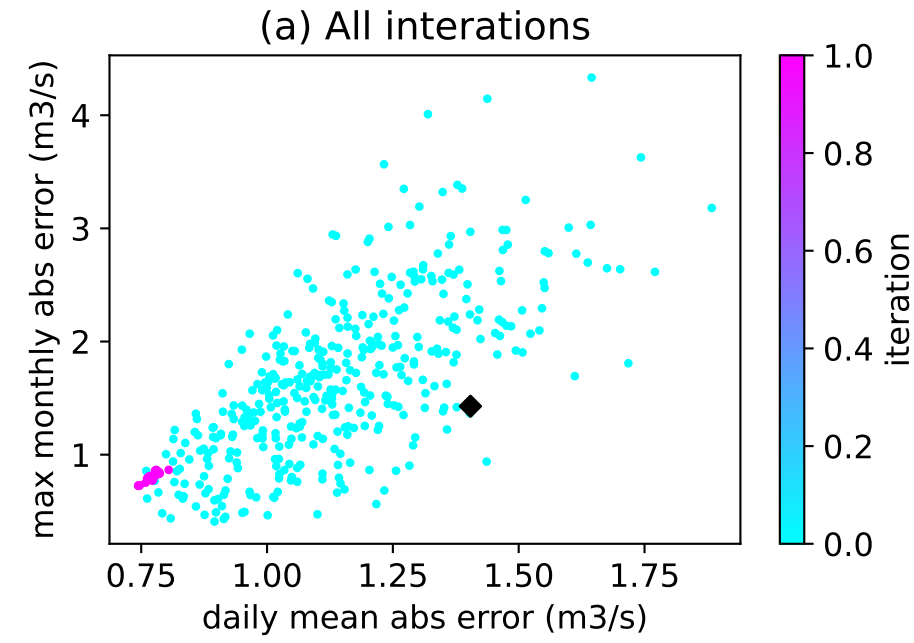


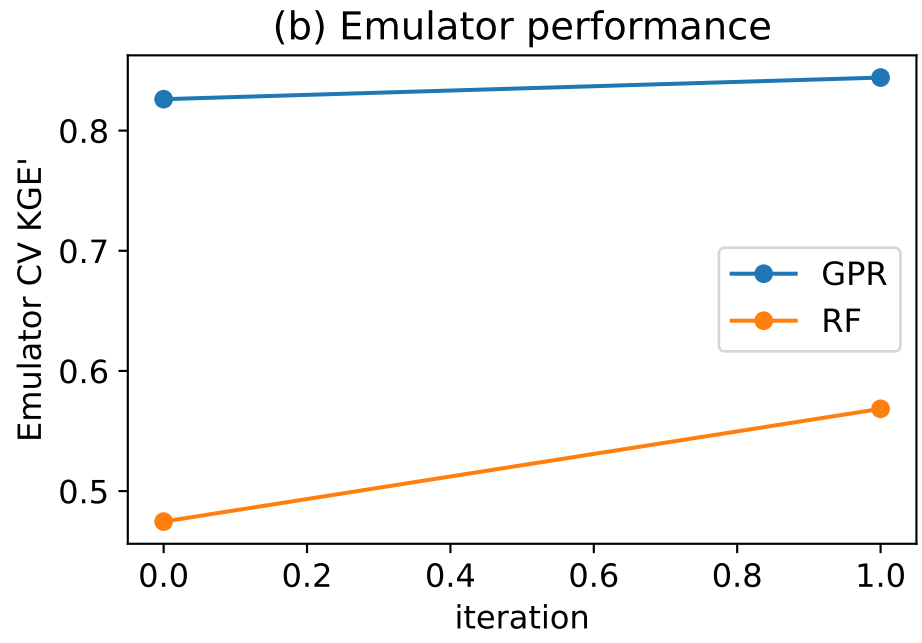


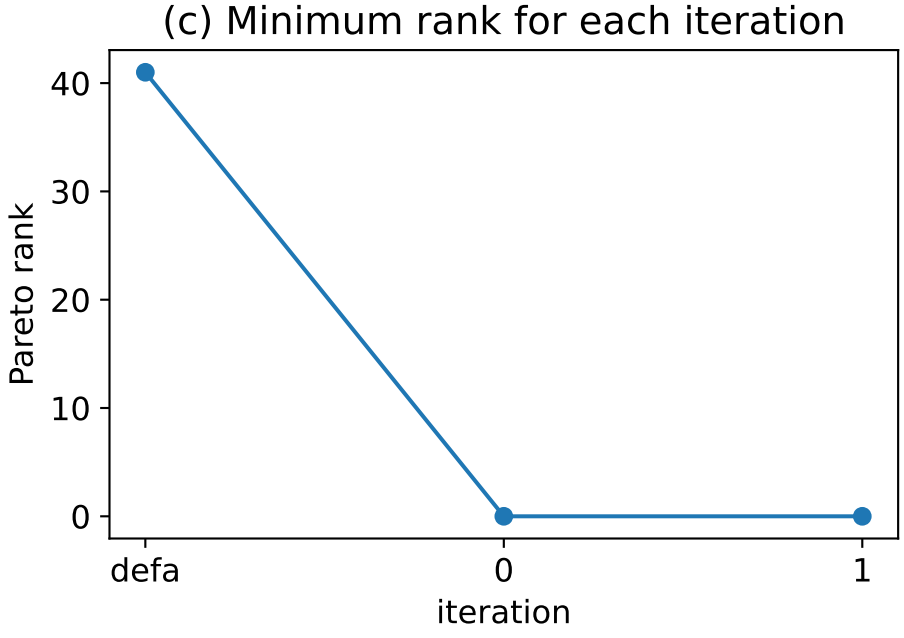


basinid: 170
hru_id: 2464146
lat_cen: 33.40951
lon_cen: -87.49377
AREA: 15.84 km2
elev_mean: 139.71 m

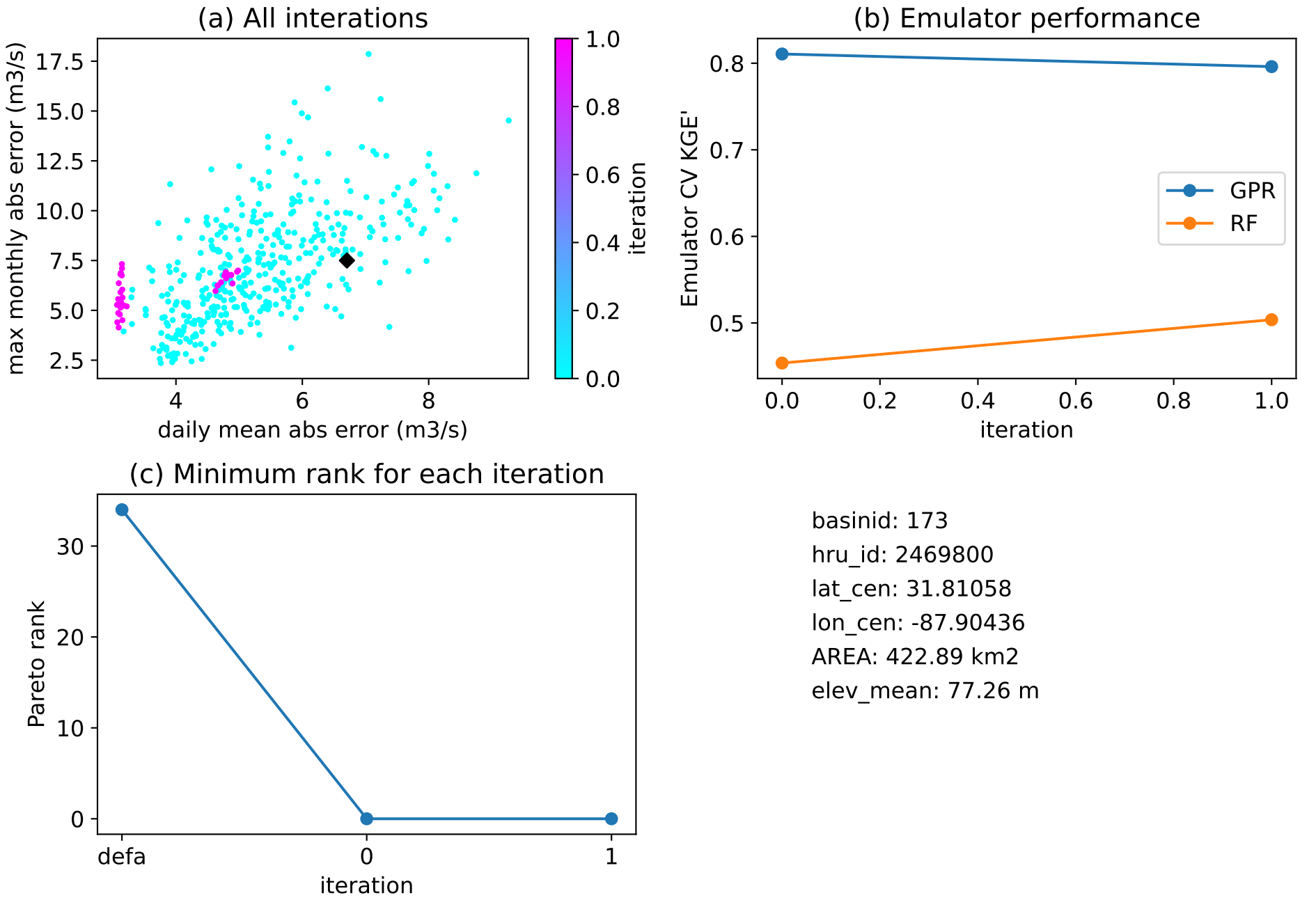

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 171
hru_id: 2464360
lat_cen: 33.47046
lon_cen: -87.68256
AREA: 148.99 km2
elev_mean: 114.53 m

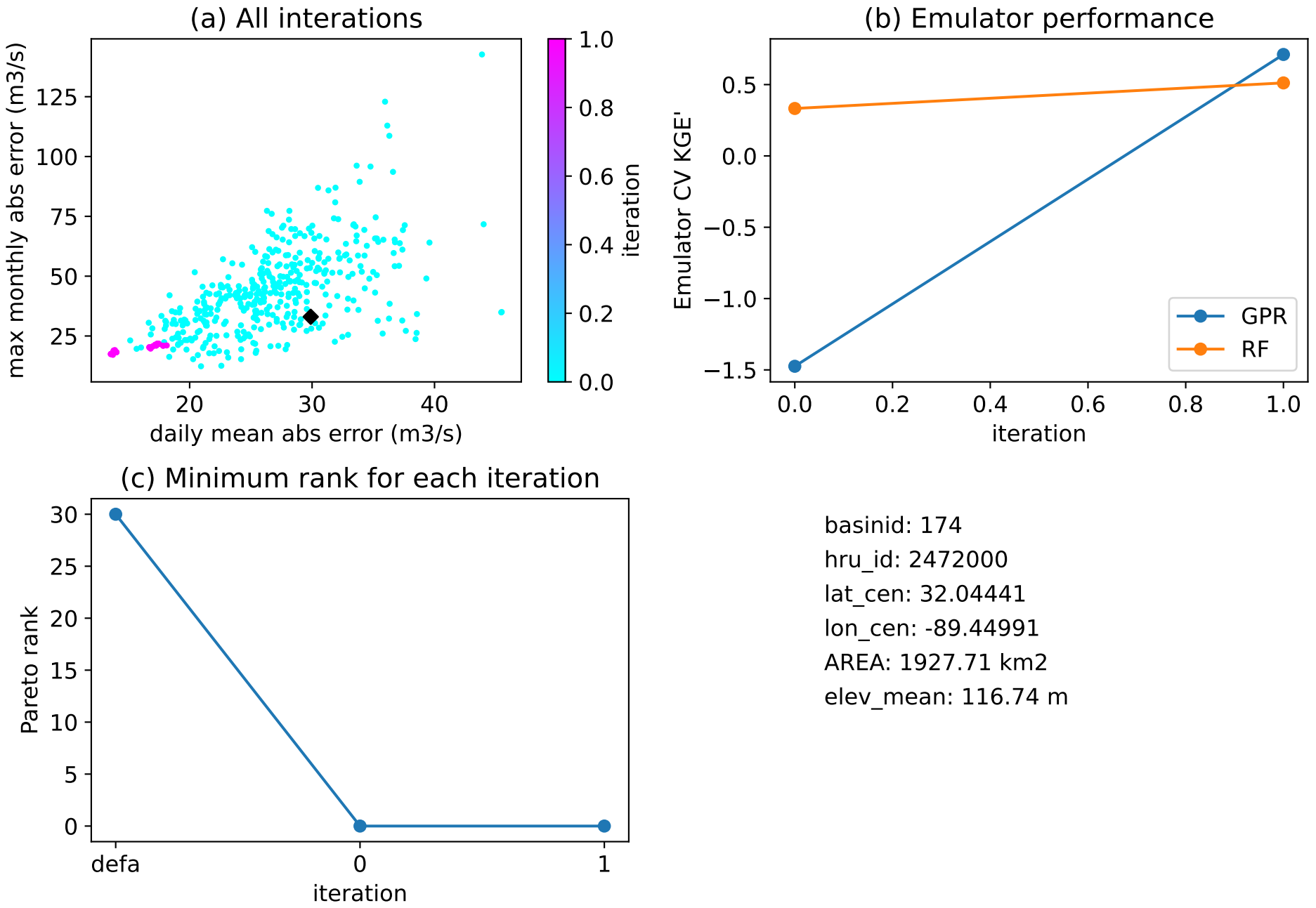


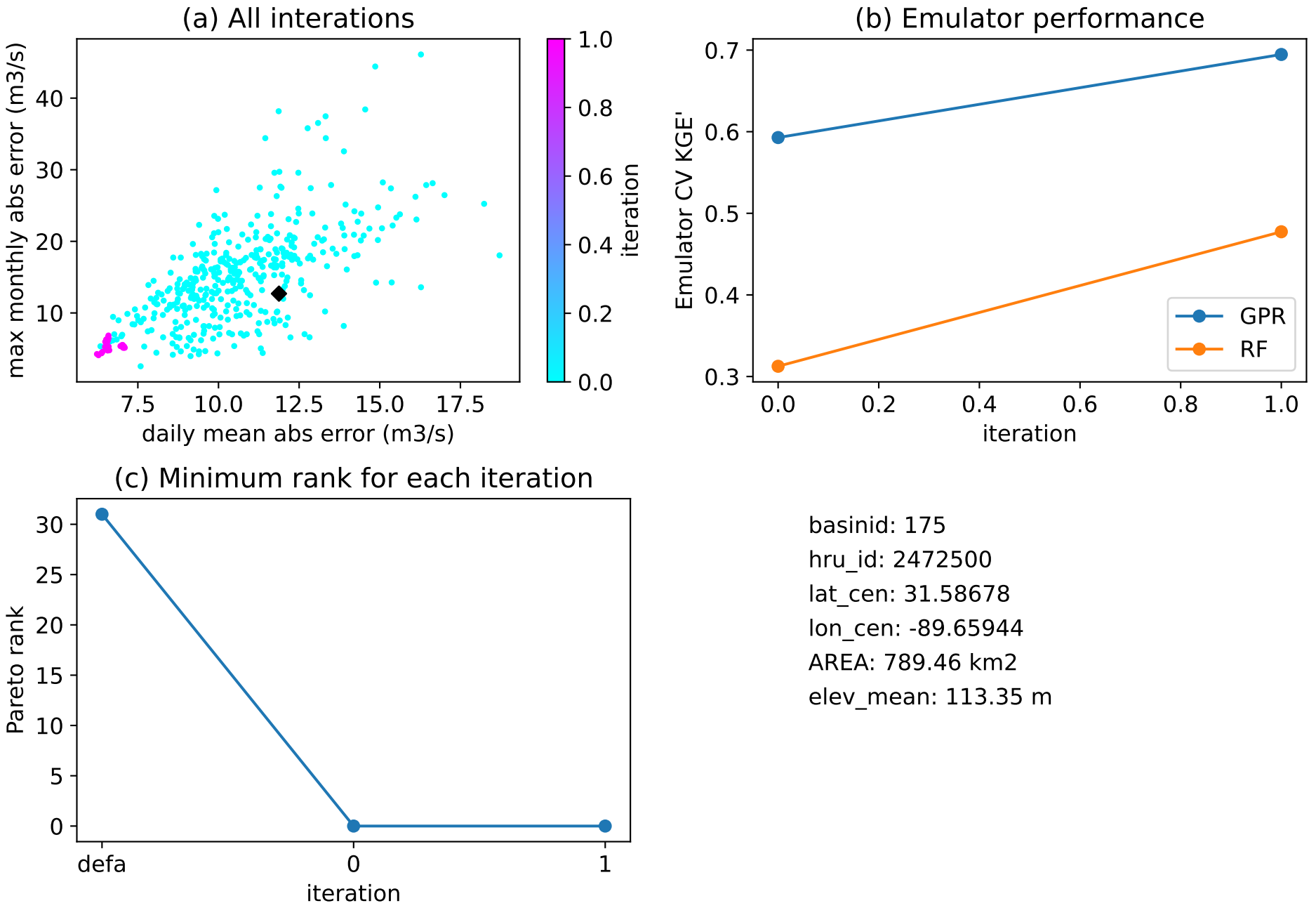


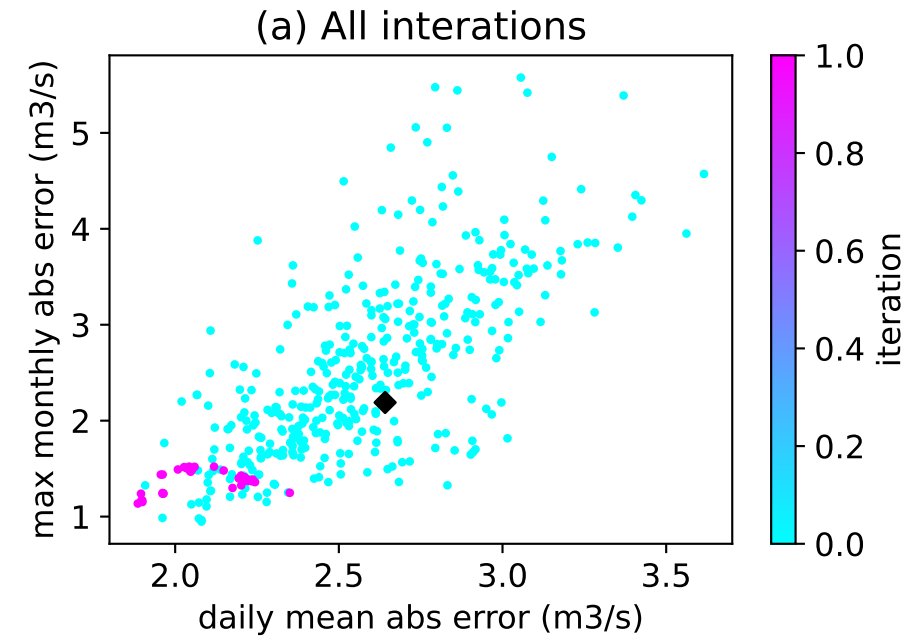


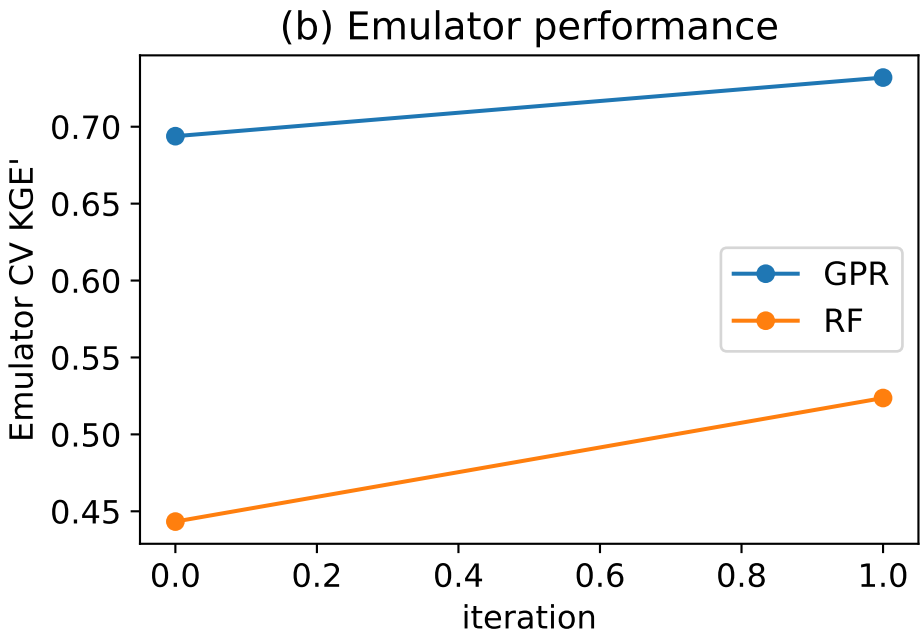
basinid: 172
hru_id: 2465493
lat_cen: 32.96997
lon_cen: -87.52709
AREA: 86.62 km2
elev_mean: 110.34 m

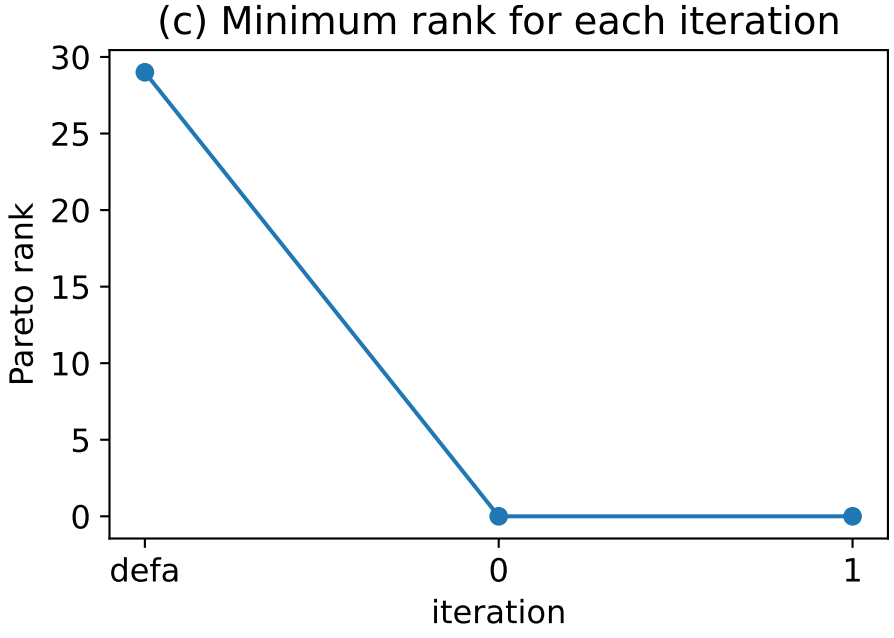

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 173
hru_id: 2469800
lat_cen: 31.81058
lon_cen: -87.90436
AREA: 422.89 km2
elev_mean: 77.26 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 174
hru_id: 2472000
lat_cen: 32.04441
lon_cen: -89.44991
AREA: 1927.71 km2
elev_mean: 116.74 m

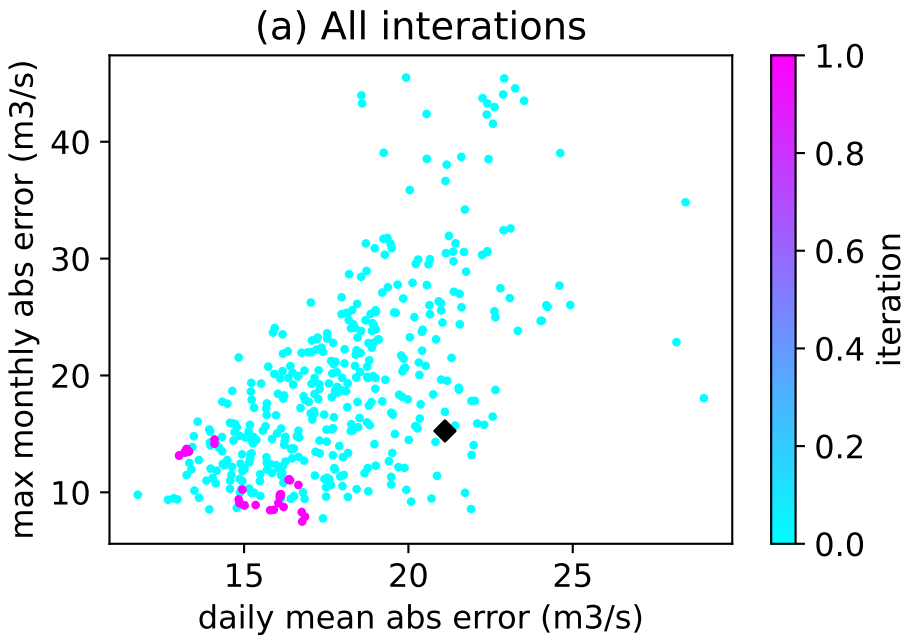

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 175
hru_id: 2472500
lat_cen: 31.58678
lon_cen: -89.65944
AREA: 789.46 km2
elev_mean: 113.35 m

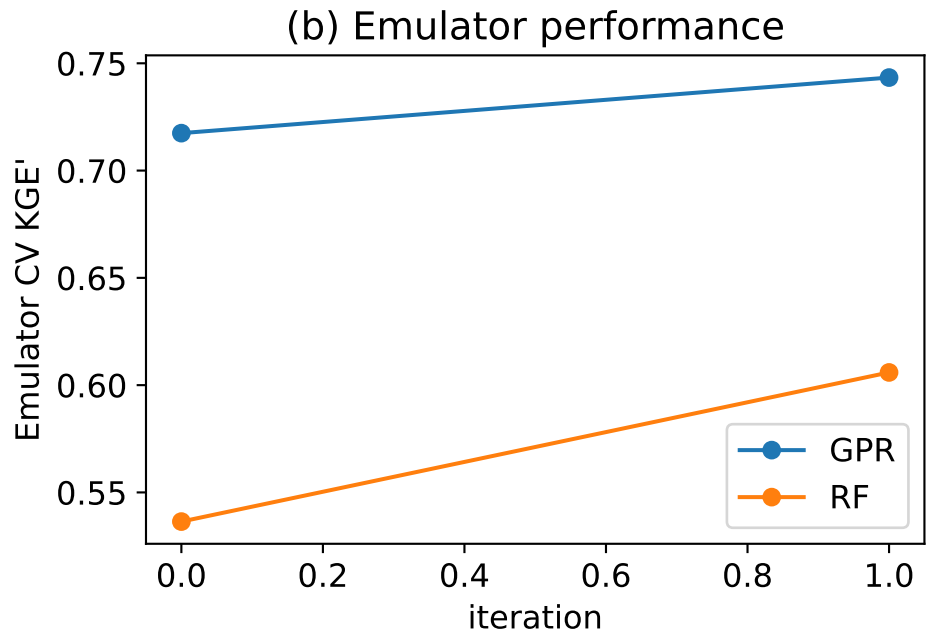


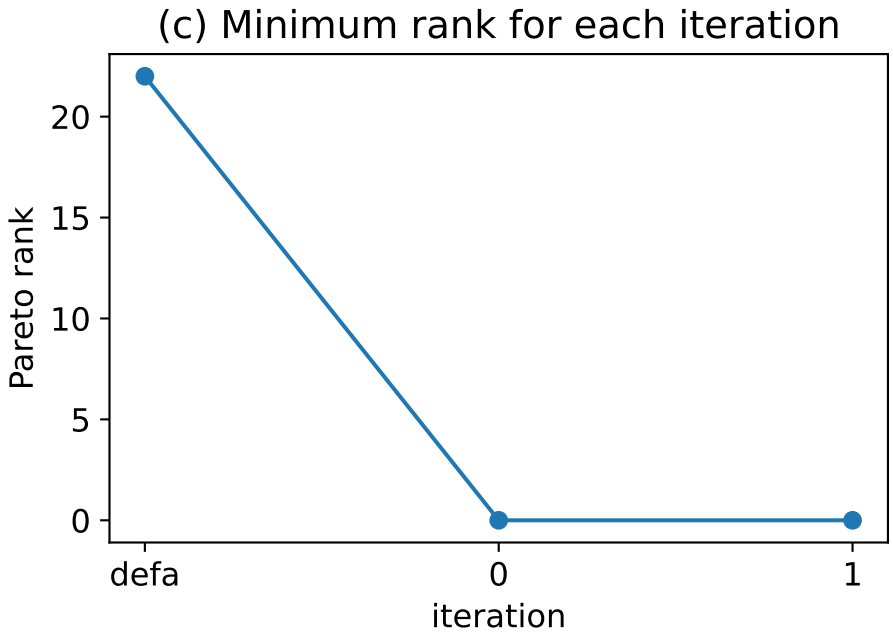




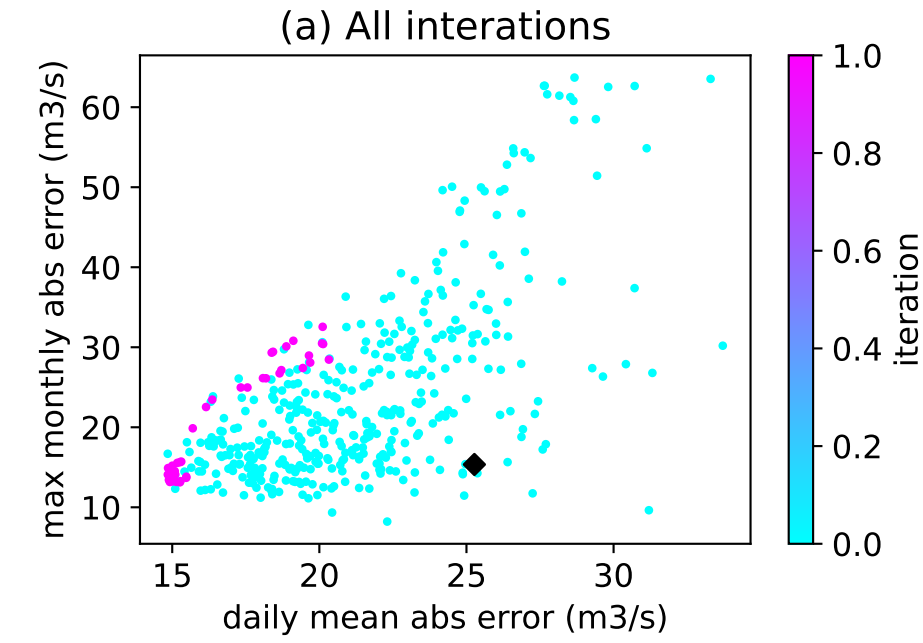
basinid: 176
hru_id: 2479155
lat_cen: 31.09826
lon_cen: -89.00637
AREA: 138.17 km2
elev_mean: 65.49 m

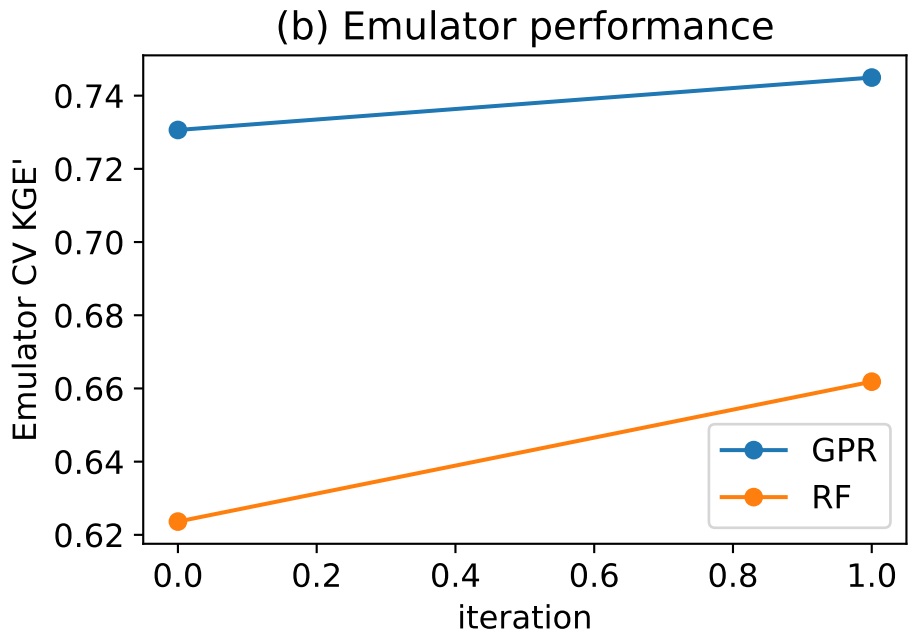


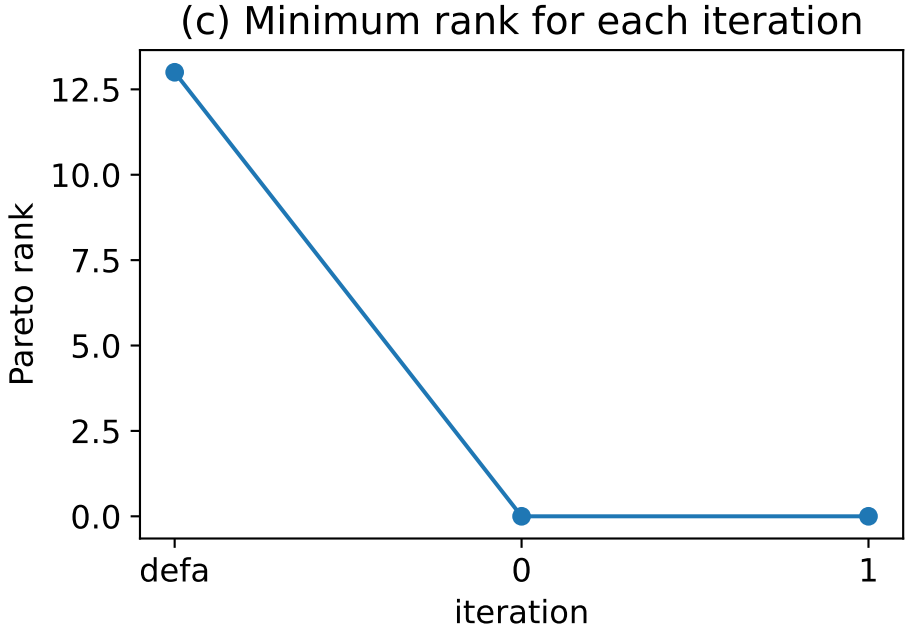




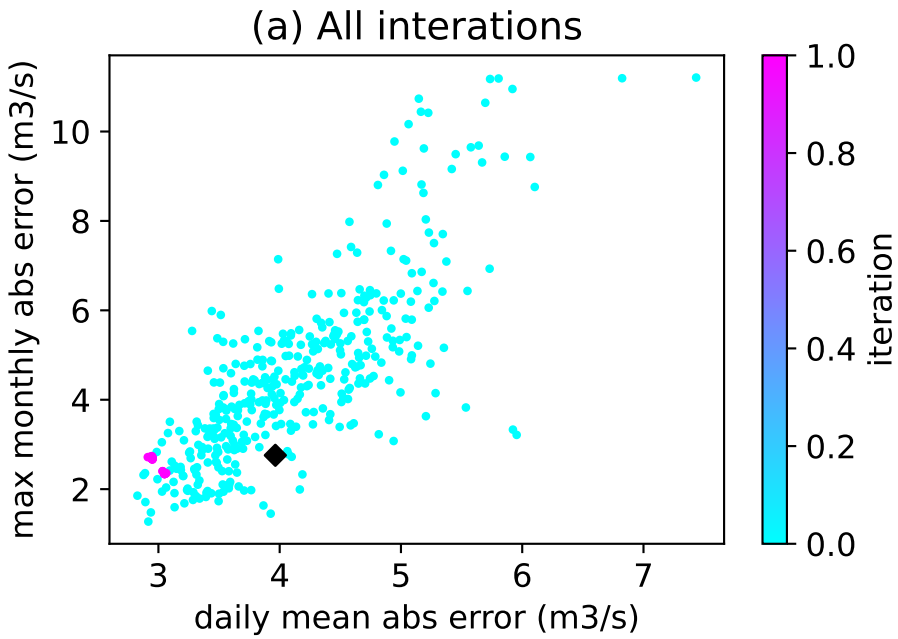
basinid: 177
hru_id: 2479300
lat_cen: 30.86789
lon_cen: -89.16585
AREA: 1153.44 km2
elev_mean: 61.06 m

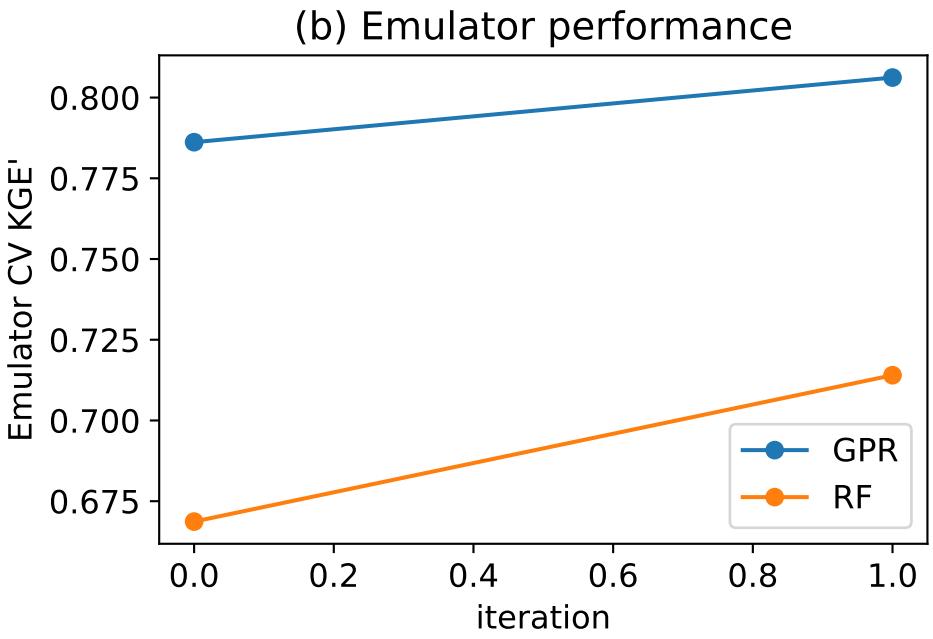


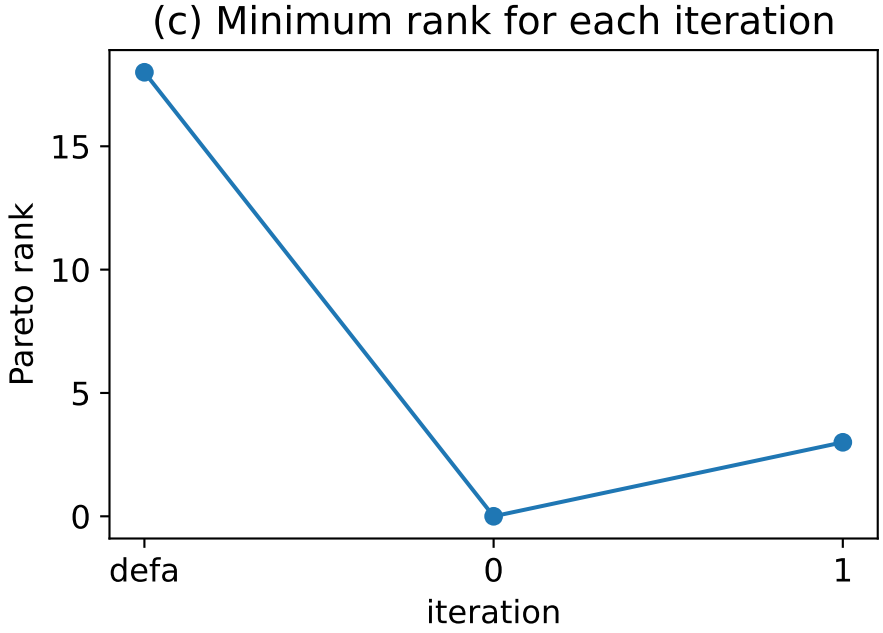




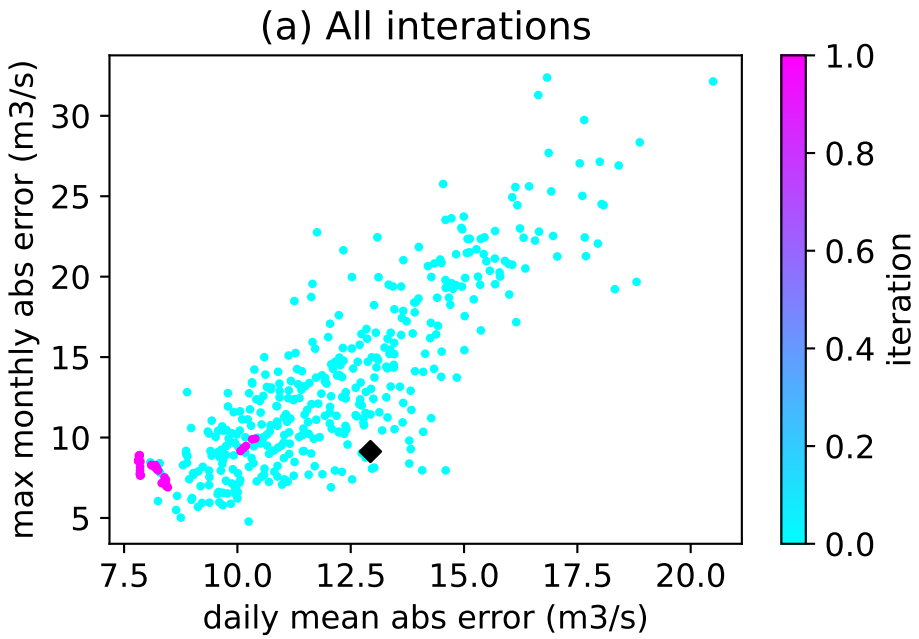
basinid: 178
hru_id: 2479560
lat_cen: 31.15039
lon_cen: -88.38732
AREA: 1455.86 km2
elev_mean: 65.39 m

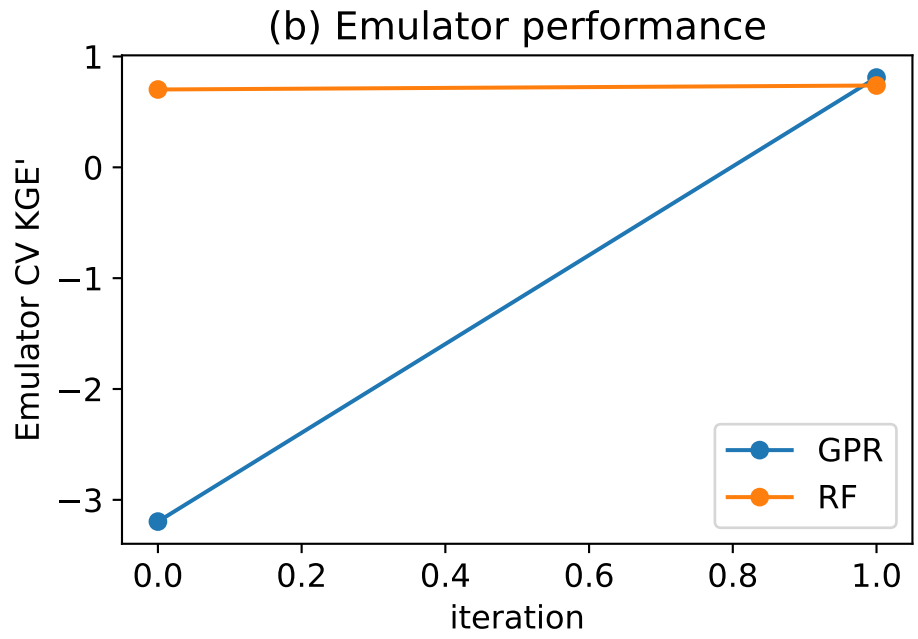


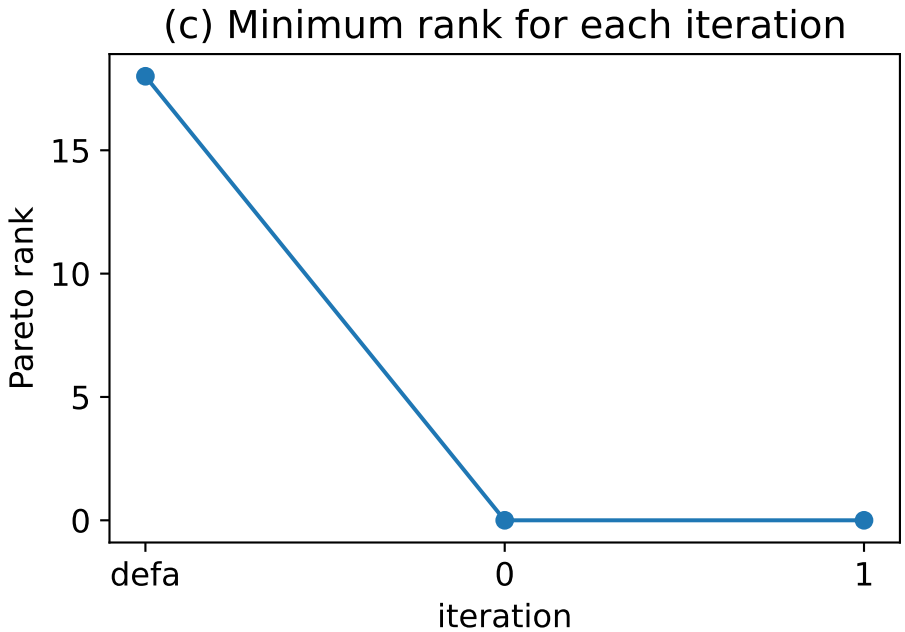




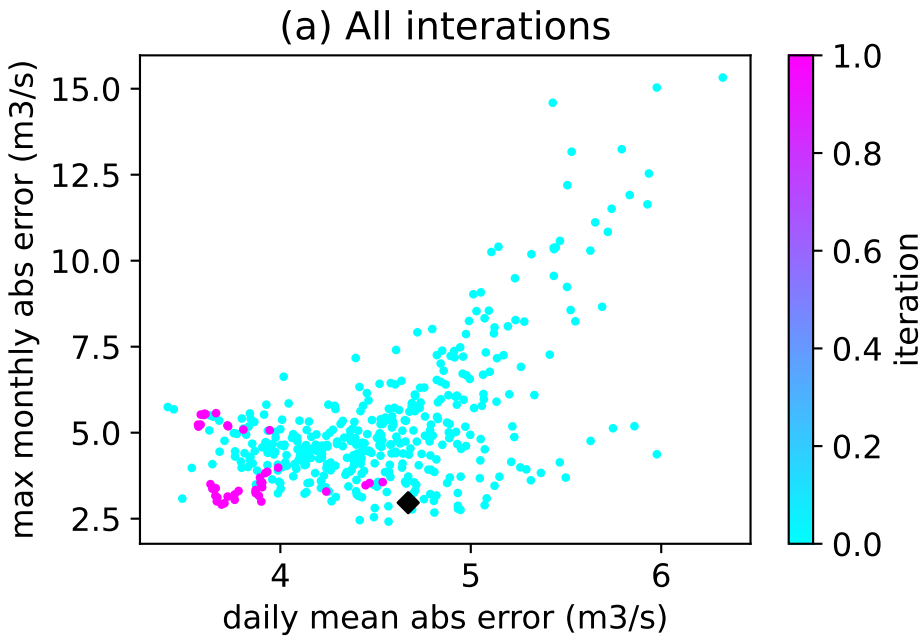
basinid: 179
hru_id: 2481000
lat_cen: 30.68013
lon_cen: -89.20747
AREA: 250.49 km2
elev_mean: 48.14 m

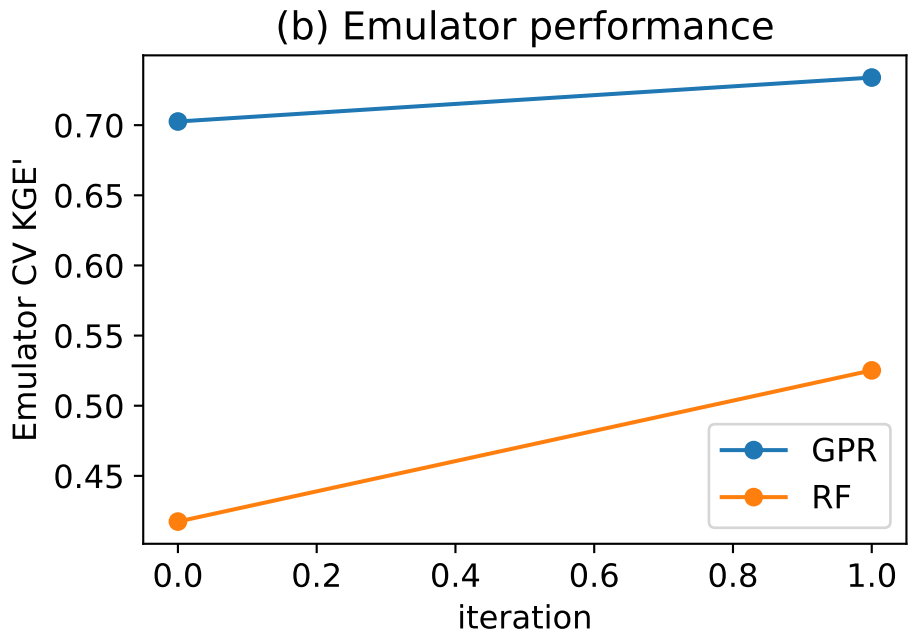


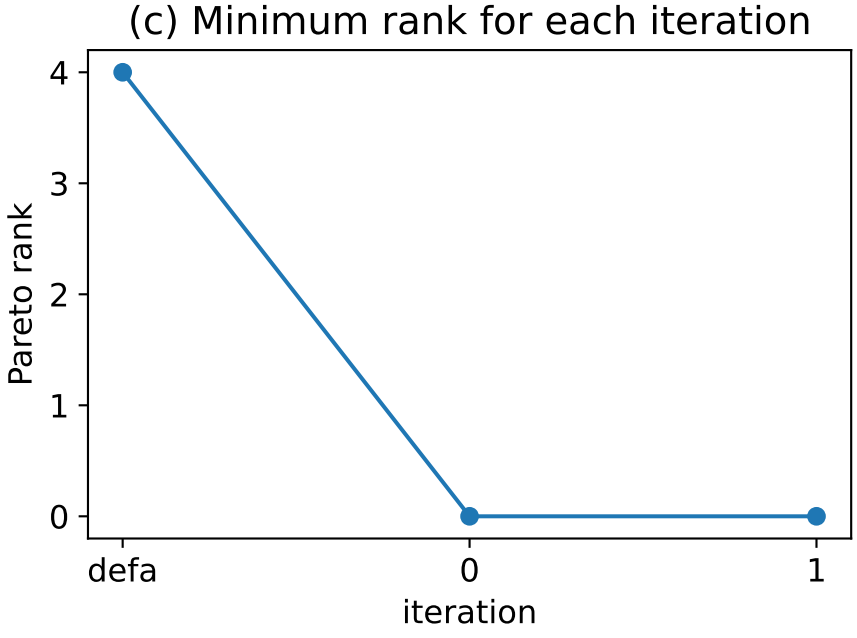




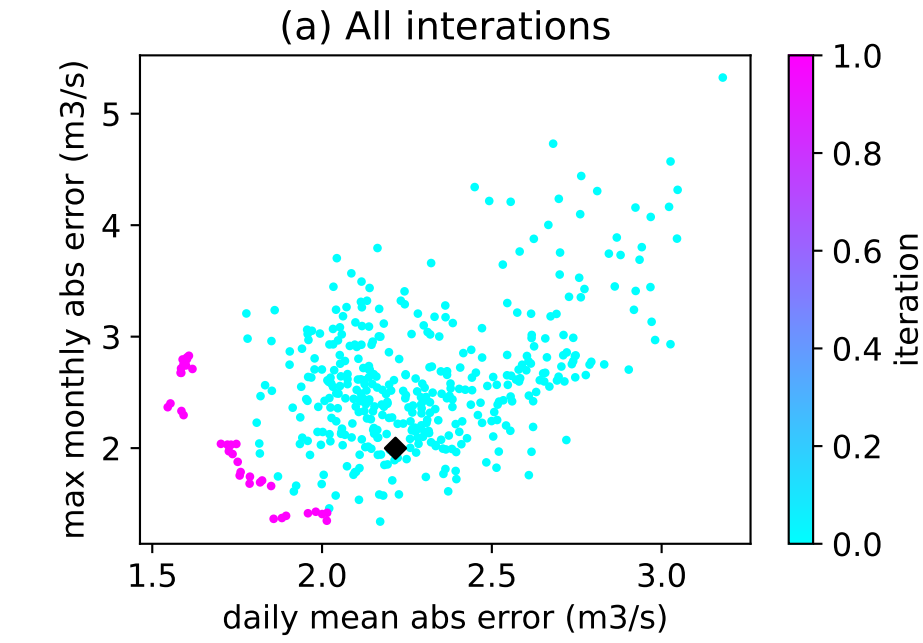
basinid: 180
hru_id: 2481510
lat_cen: 30.76983
lon_cen: -89.41421
AREA: 801.50 km2
elev_mean: 66.07 m

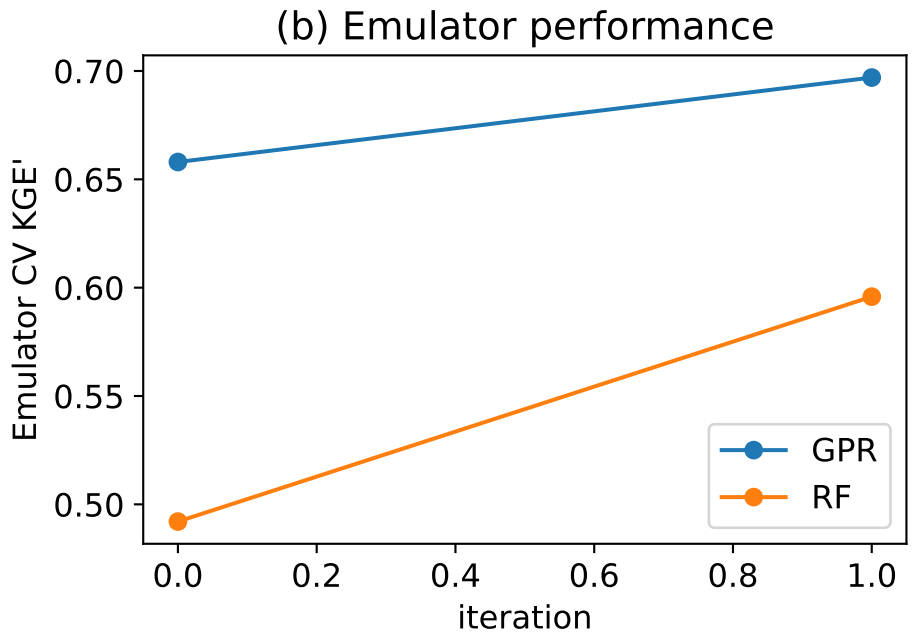


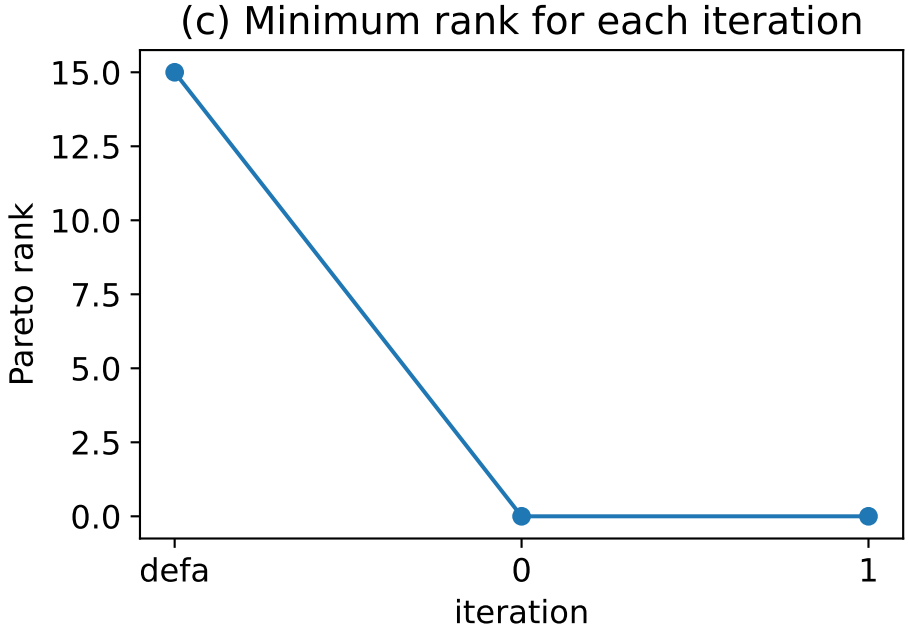




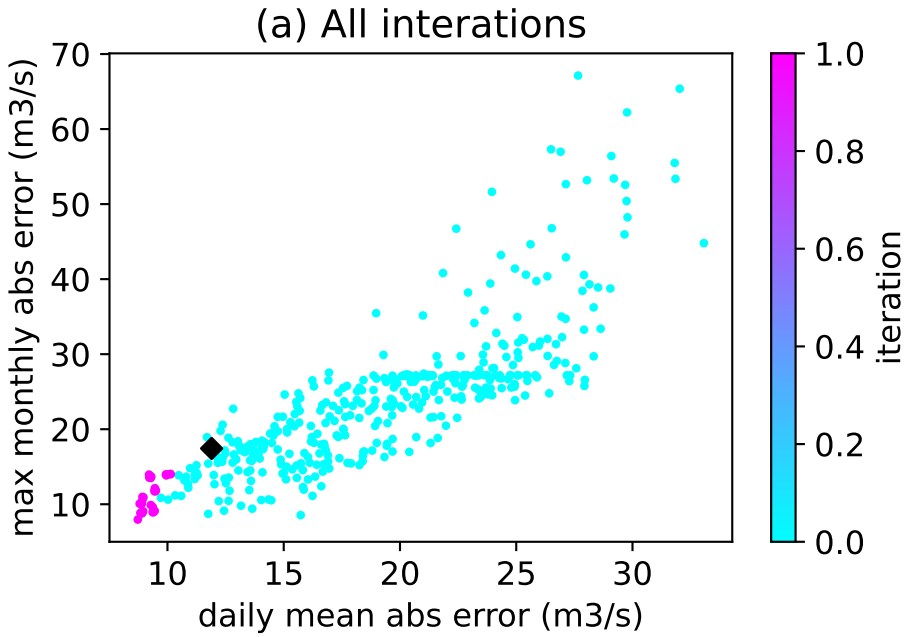
basinid: 181
hru_id: 3010655
lat_cen: 41.917
lon_cen: -78.05065
AREA: 255.12 km2
elev_mean: 623.18 m

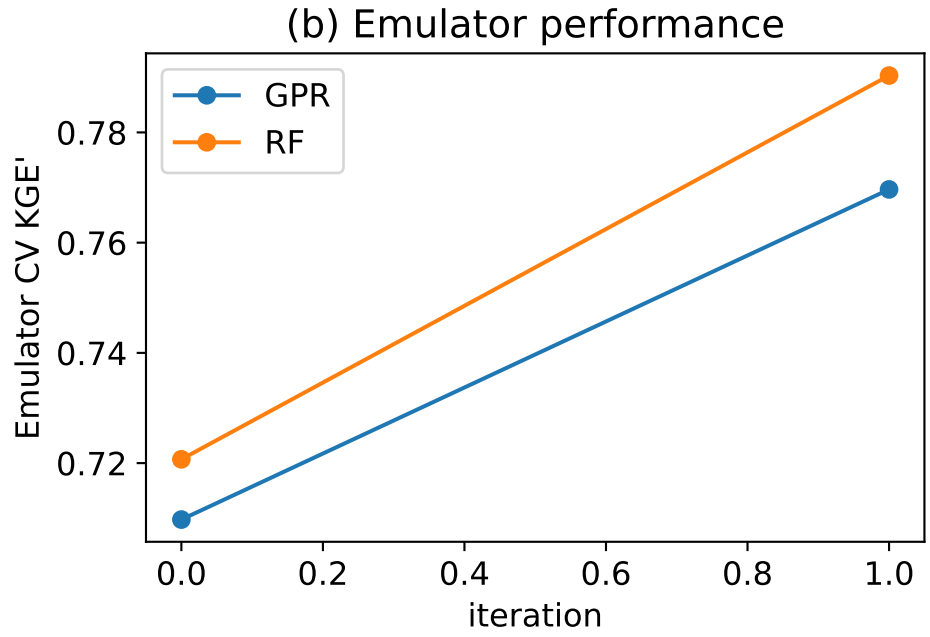


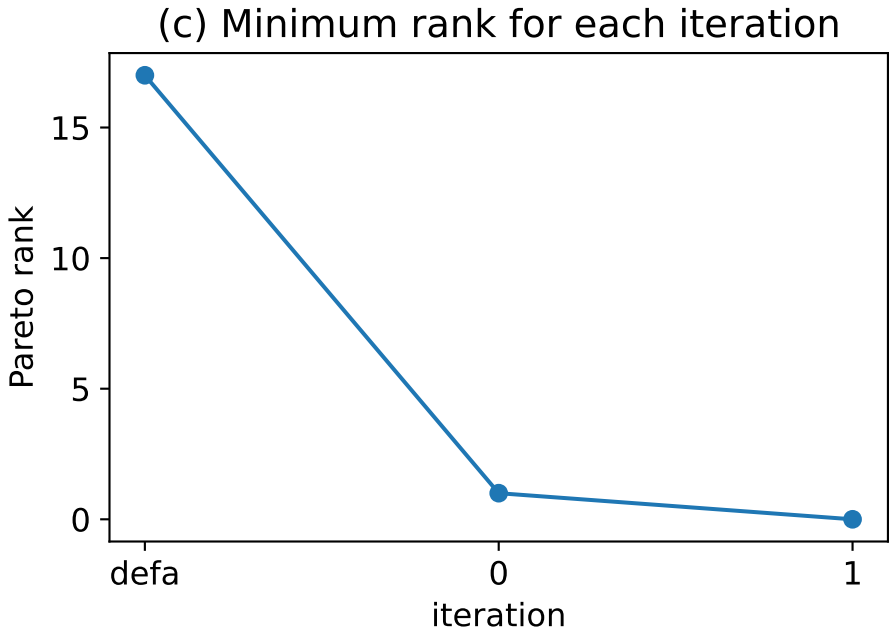




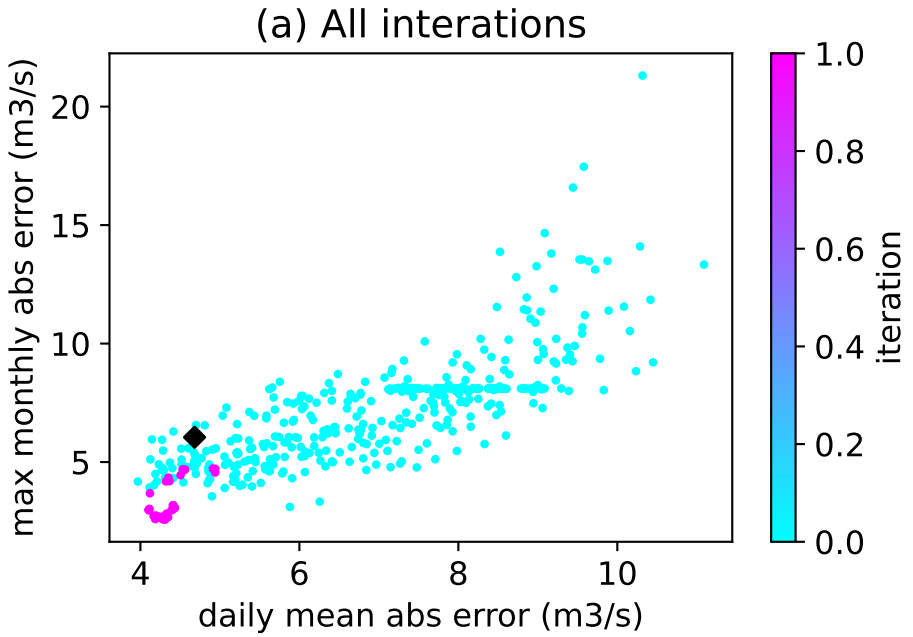
basinid: 182
hru_id: 3011800
lat_cen: 41.77314
lon_cen: -78.6213
AREA: 101.16 km2
elev_mean: 633.07 m

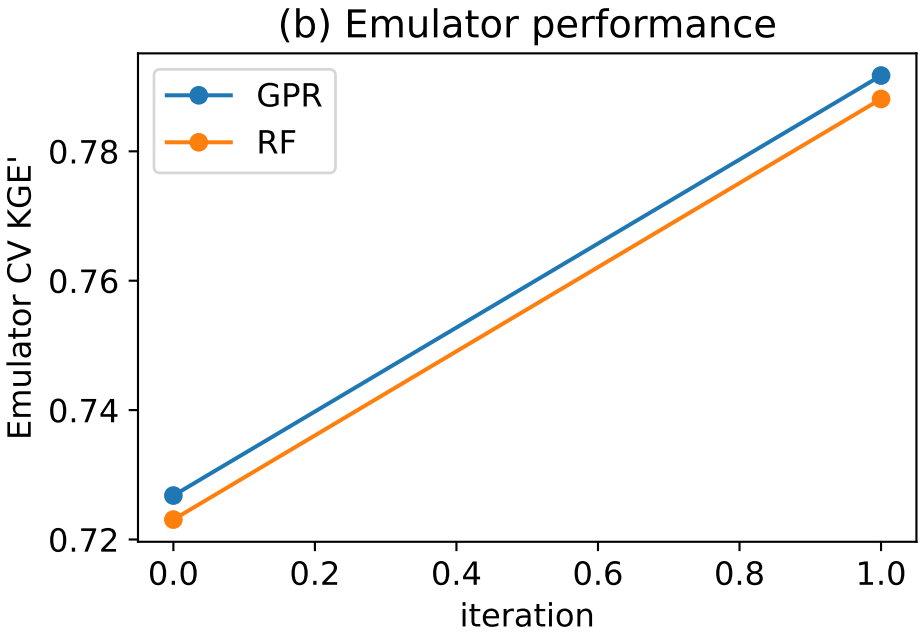


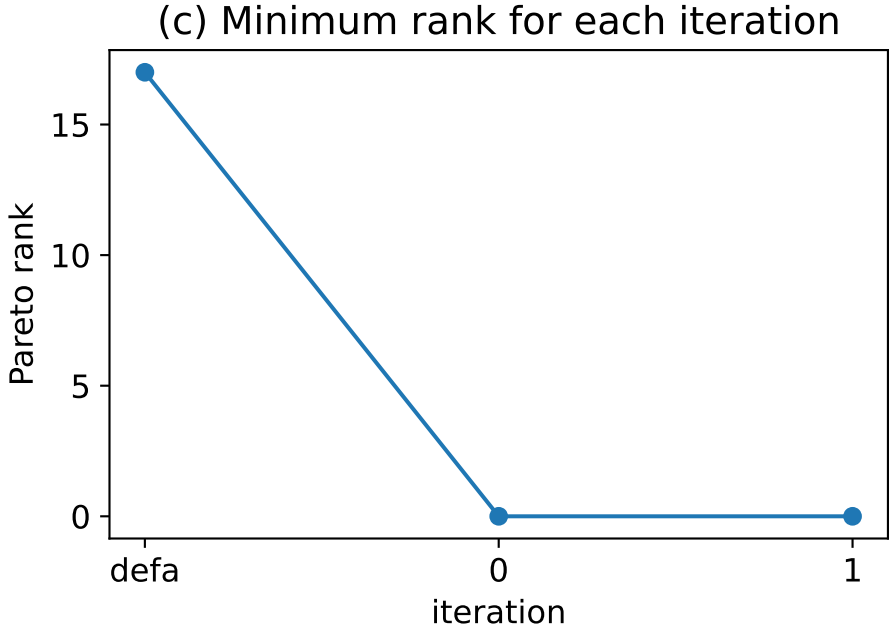




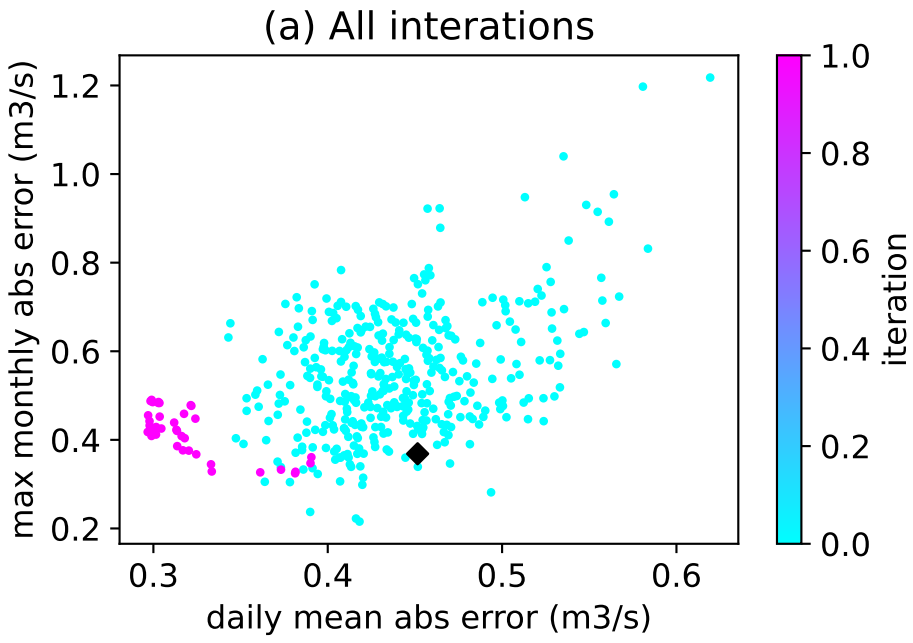
basinid: 183
hru_id: 3015500
lat_cen: 41.92132
lon_cen: -79.50262
AREA: 831.40 km2
elev_mean: 489.29 m

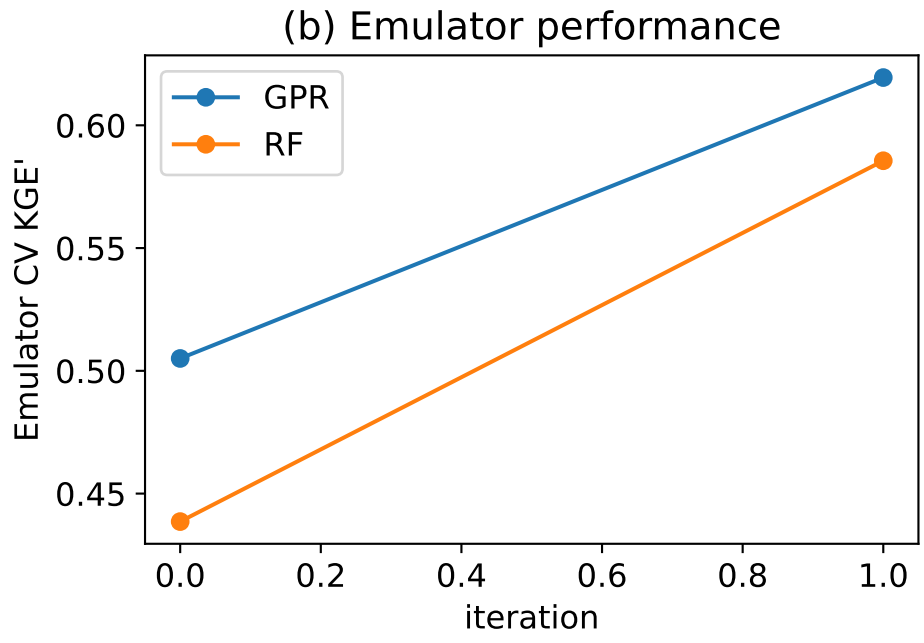


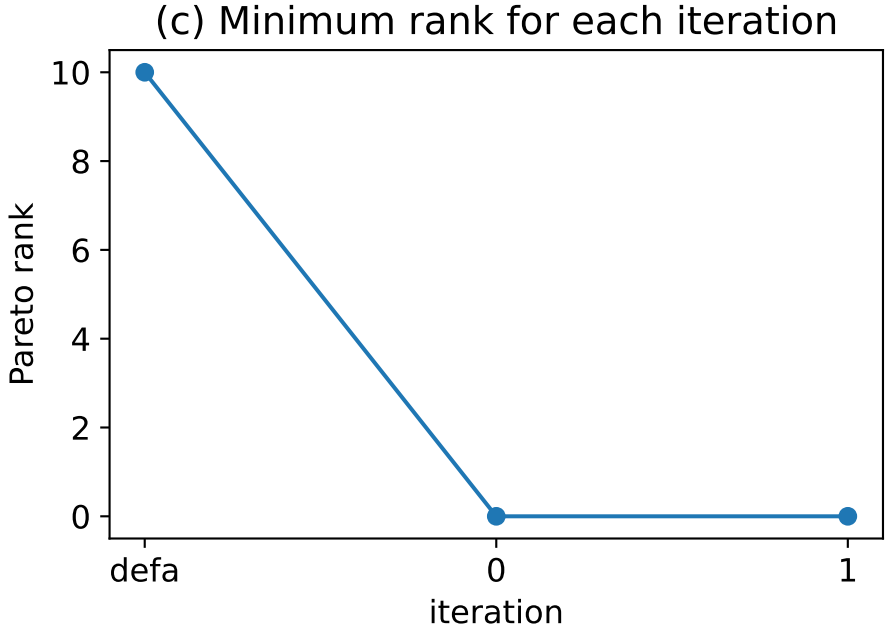




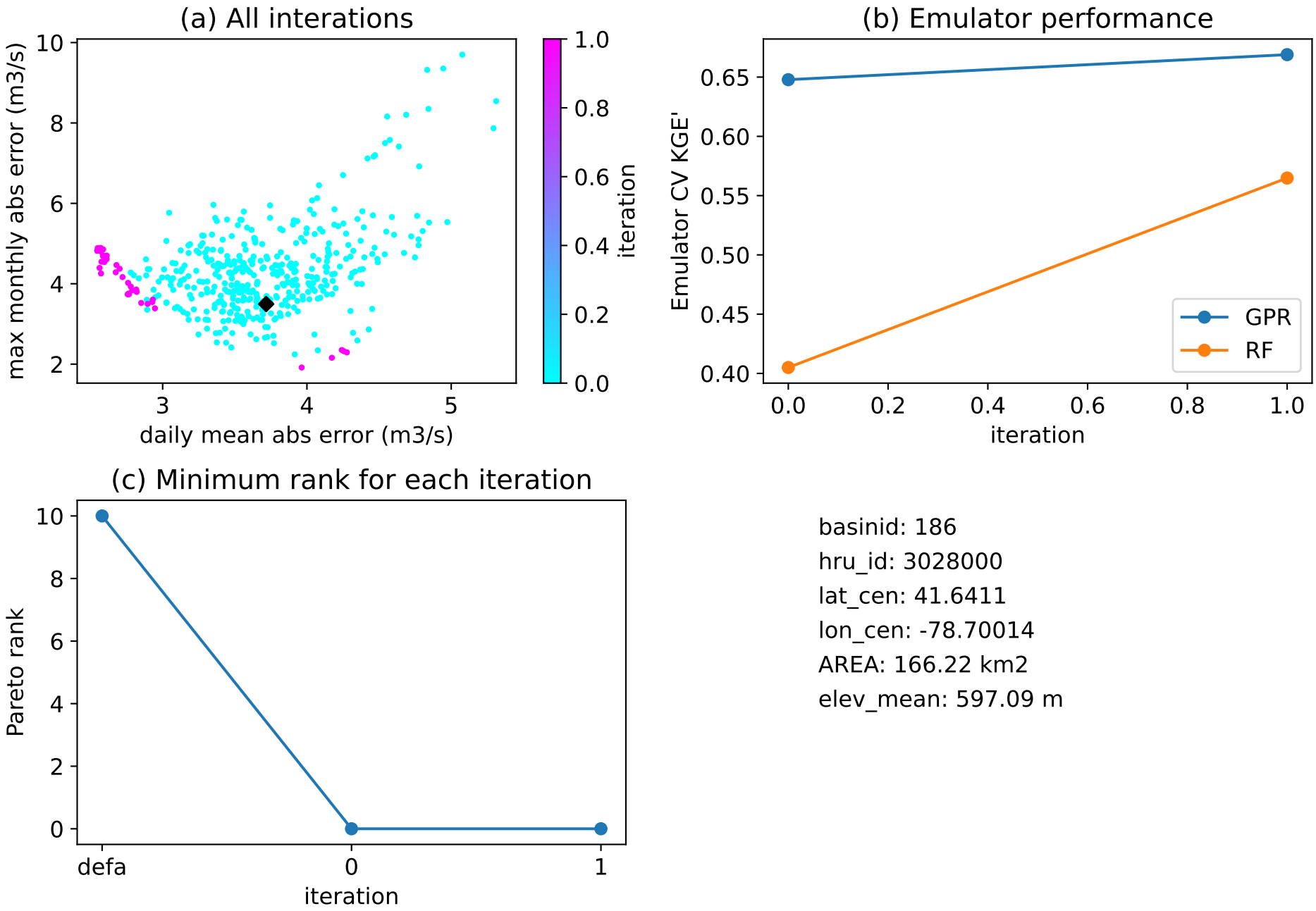
basinid: 184
hru_id: 3021350
lat_cen: 42.08496
lon_cen: -79.65858
AREA: 249.01 km2
elev_mean: 485.07 m

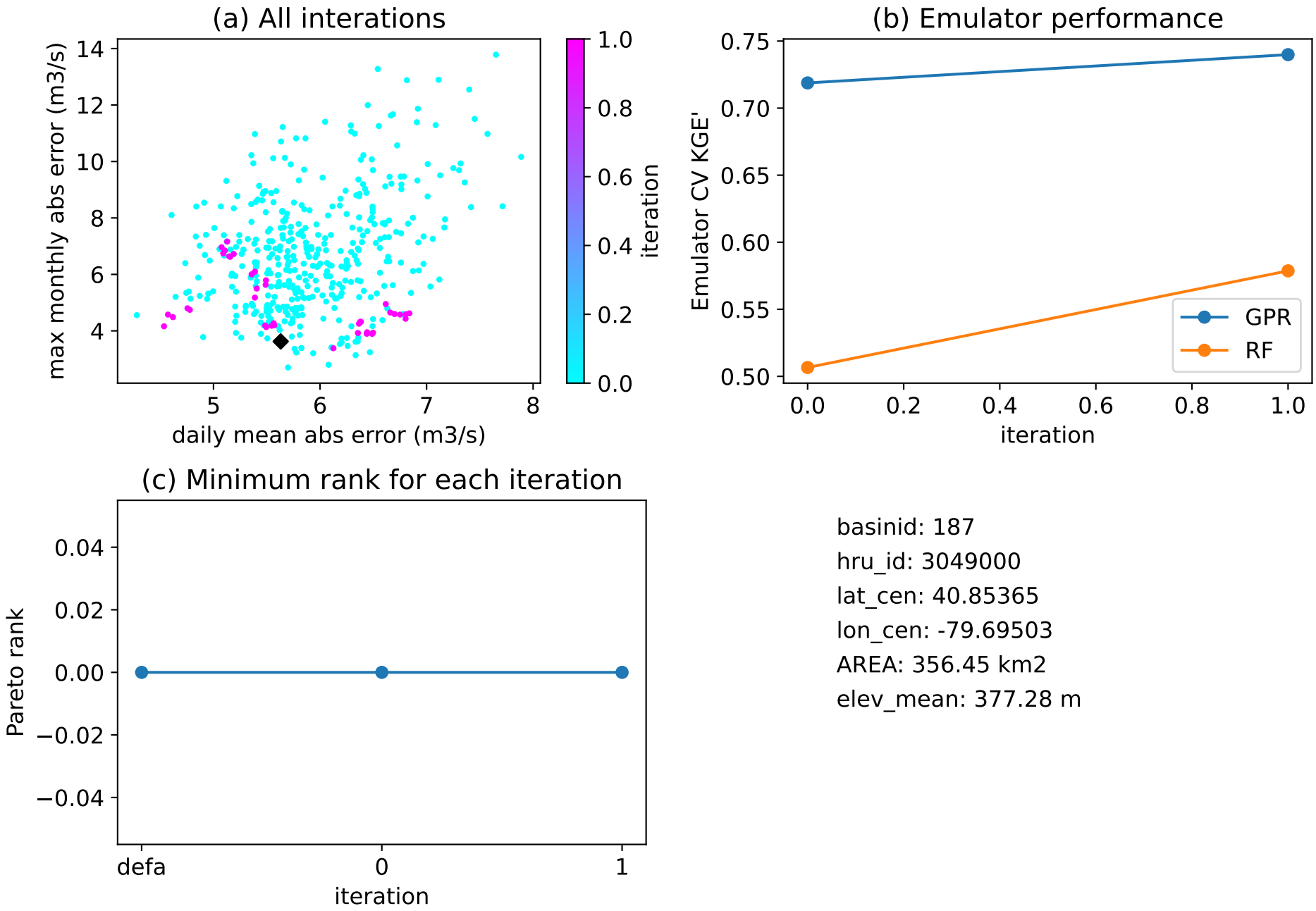


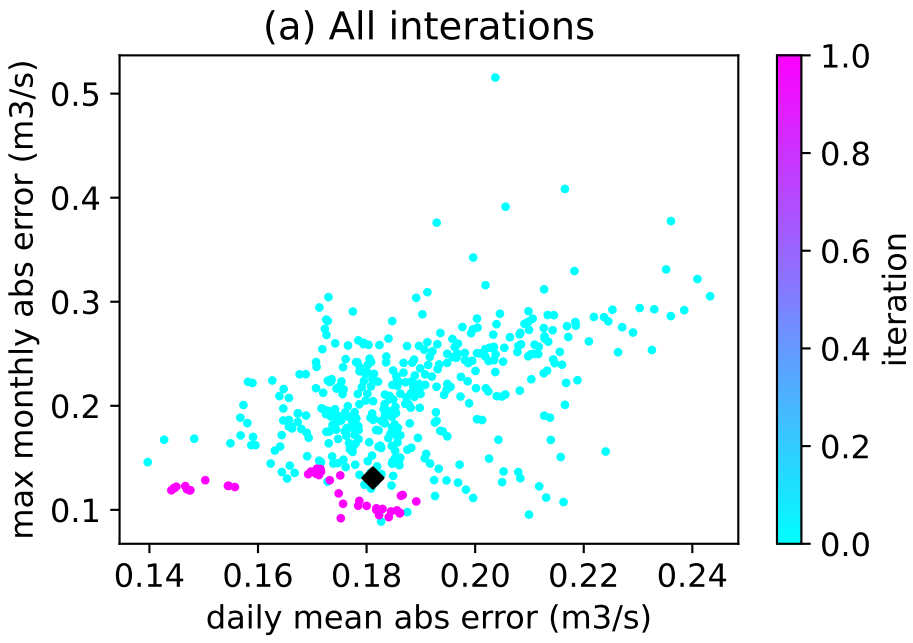


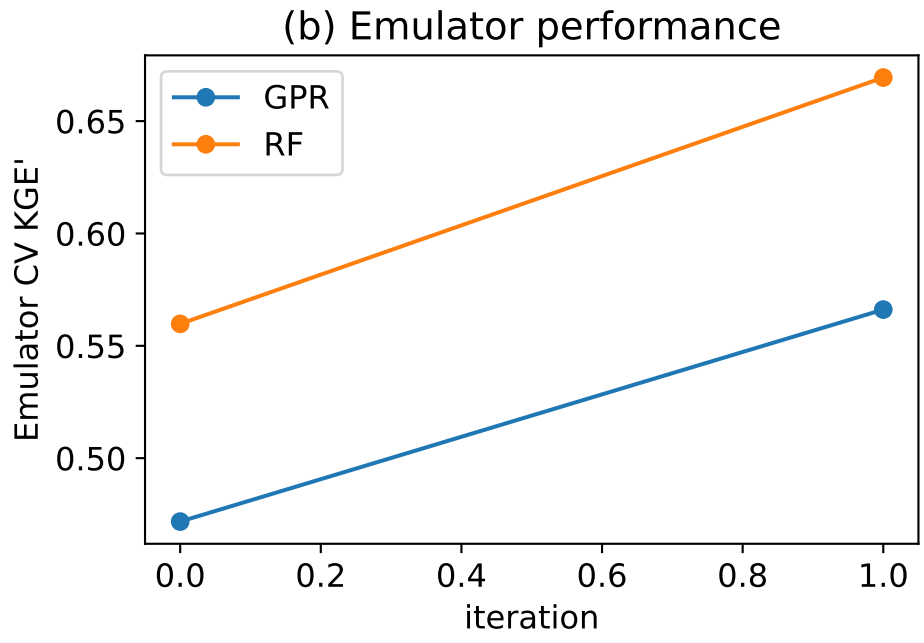


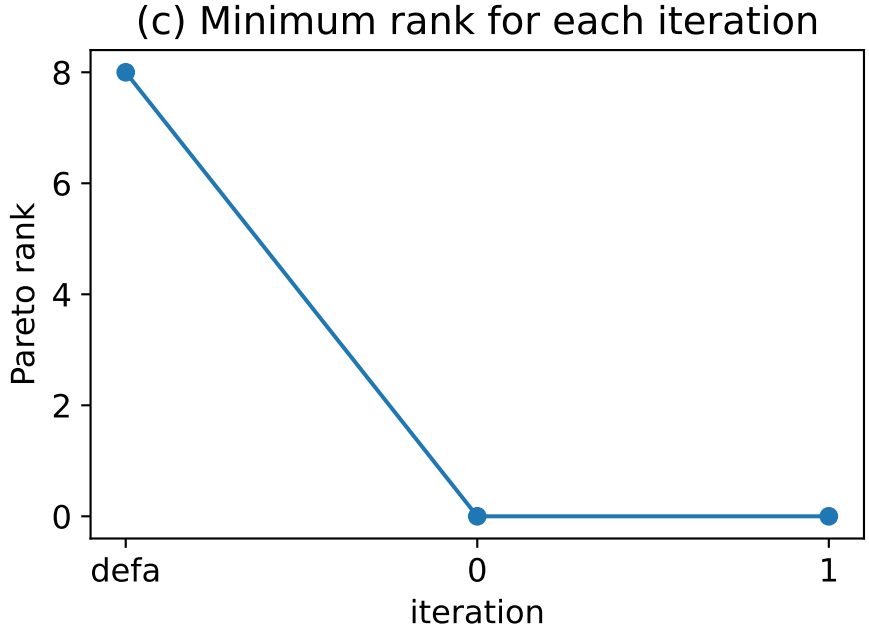
basinid: 185
hru_id: 3026500
lat_cen: 41.66179
lon_cen: -78.60745
AREA: 20.33 km2
elev_mean: 615.52 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 186
hru_id: 3028000
lat_cen: 41.6411
lon_cen: -78.70014
AREA: 166.22 km2
elev_mean: 597.09 m

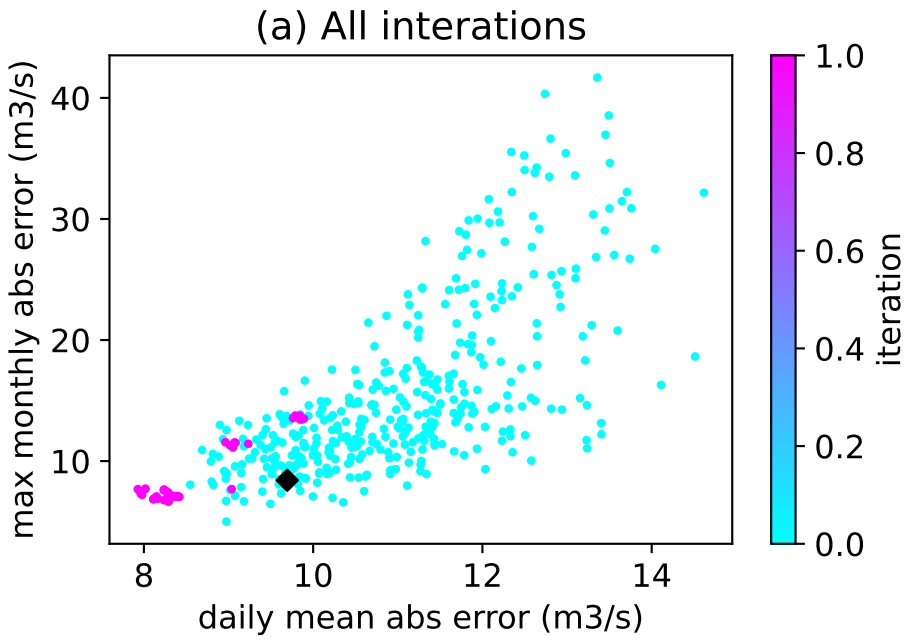

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 187
hru_id: 3049000
lat_cen: 40.85365
lon_cen: -79.69503
AREA: 356.45 km2
elev_mean: 377.28 m

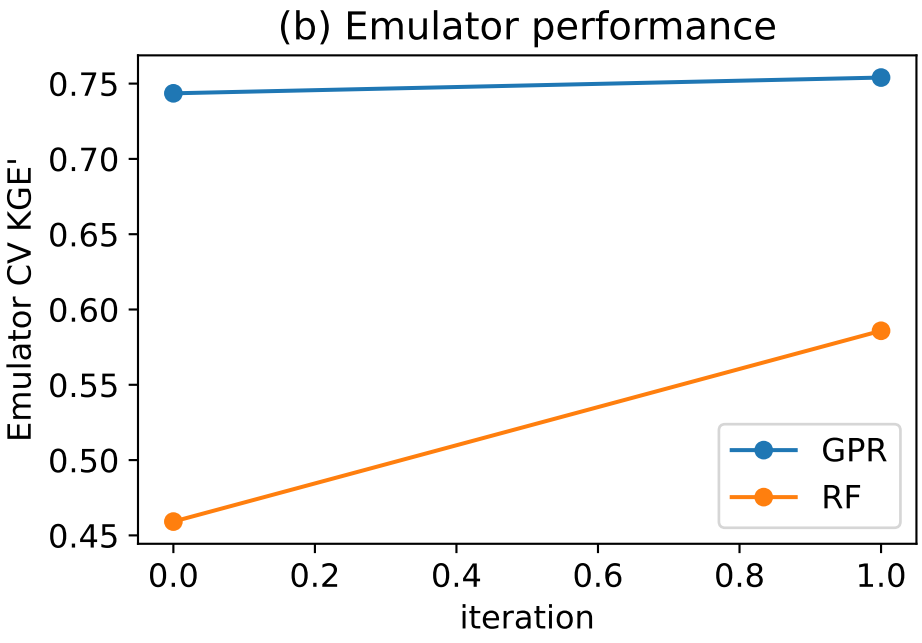


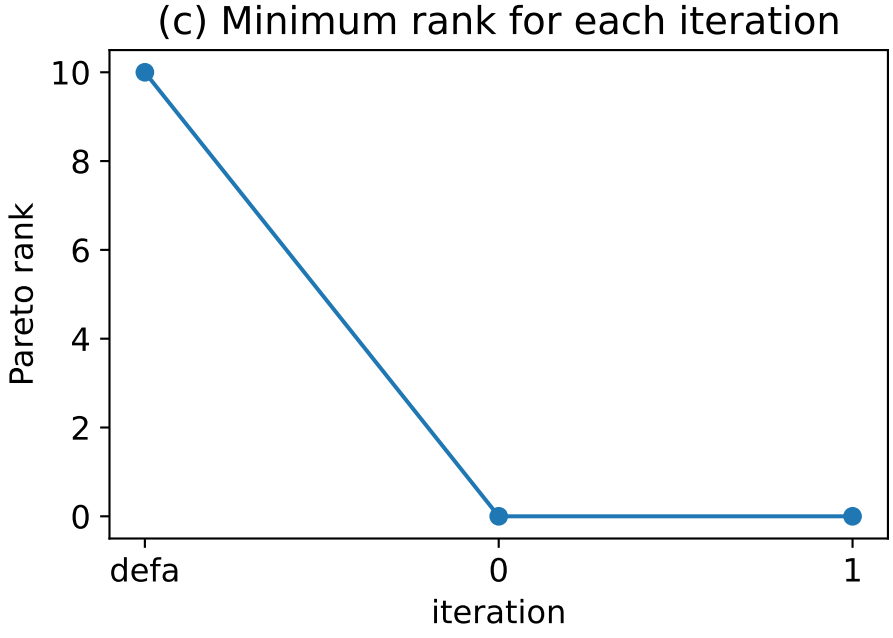




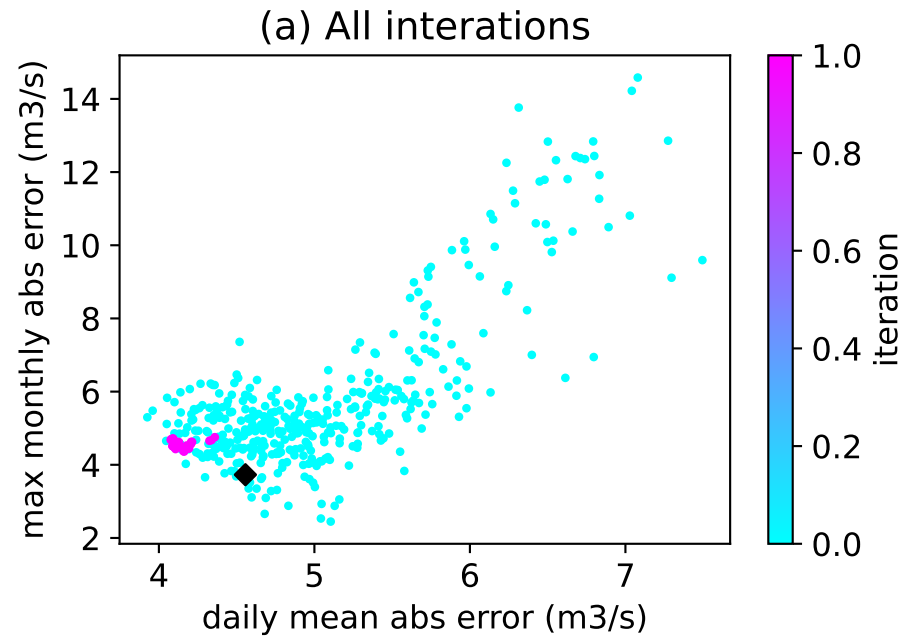
basinid: 188
hru_id: 3049800
lat_cen: 40.54501
lon_cen: -79.92033
AREA: 16.00 km2
elev_mean: 337.82 m

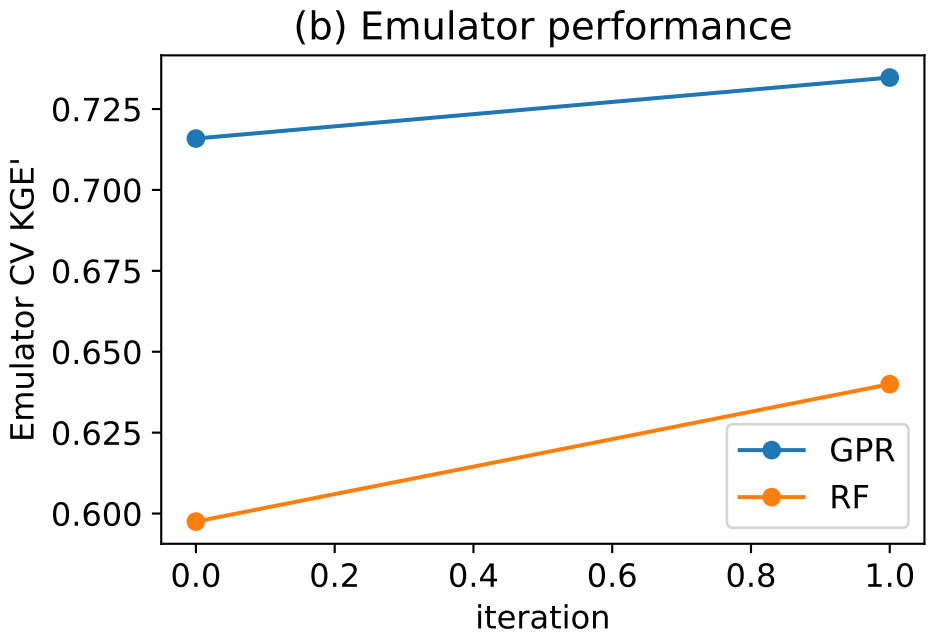


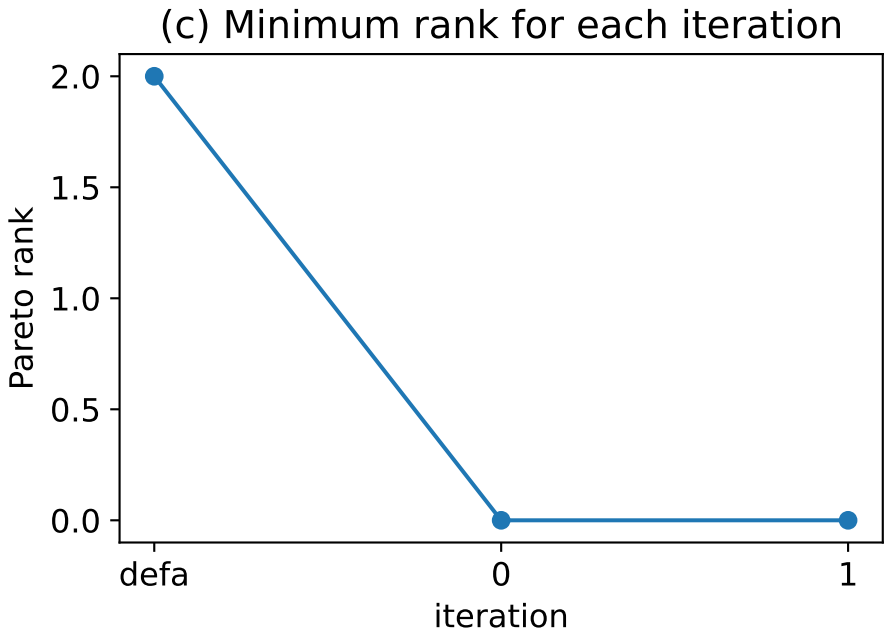




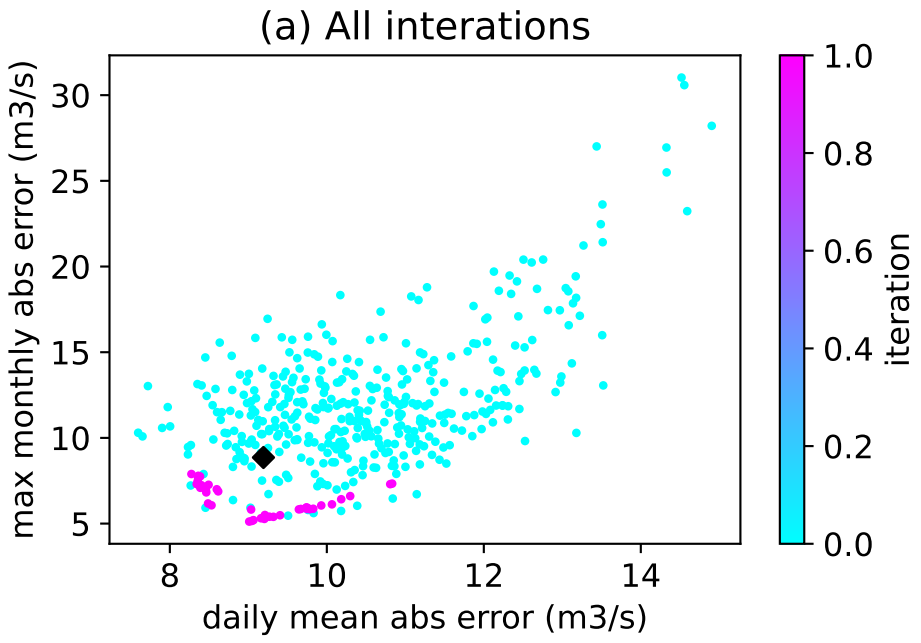
basinid: 189
hru_id: 3050000
lat_cen: 38.63665
lon_cen: -79.9917
AREA: 489.50 km2
elev_mean: 868.04 m

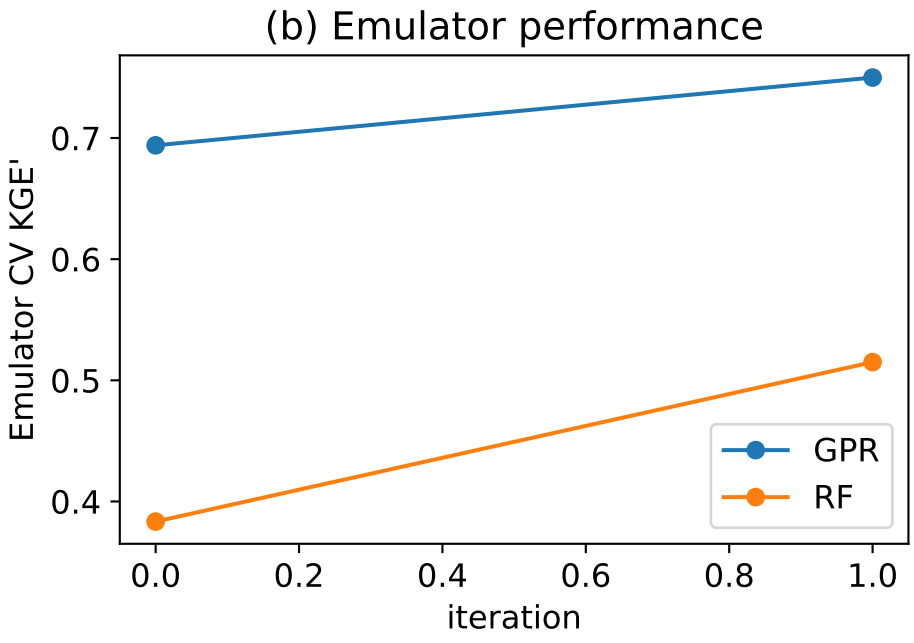


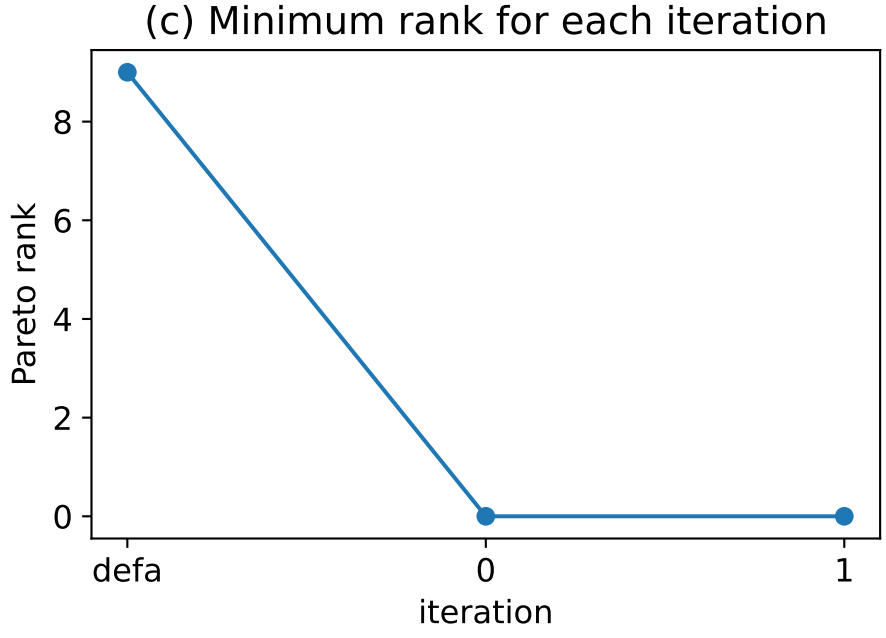




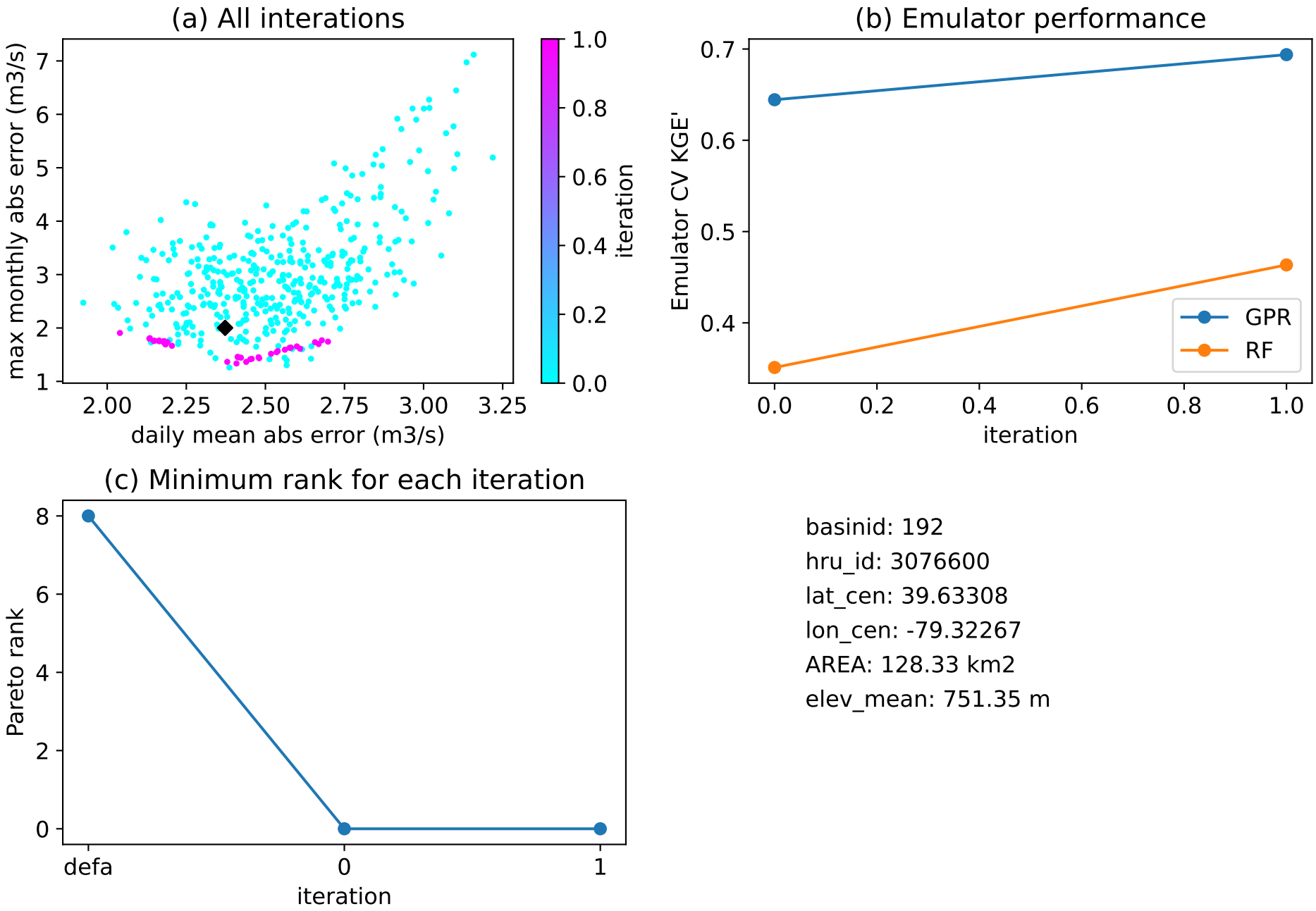
basinid: 190
hru_id: 3066000
lat_cen: 39.1121
lon_cen: -79.40344
AREA: 225.24 km2
elev_mean: 1021.14 m

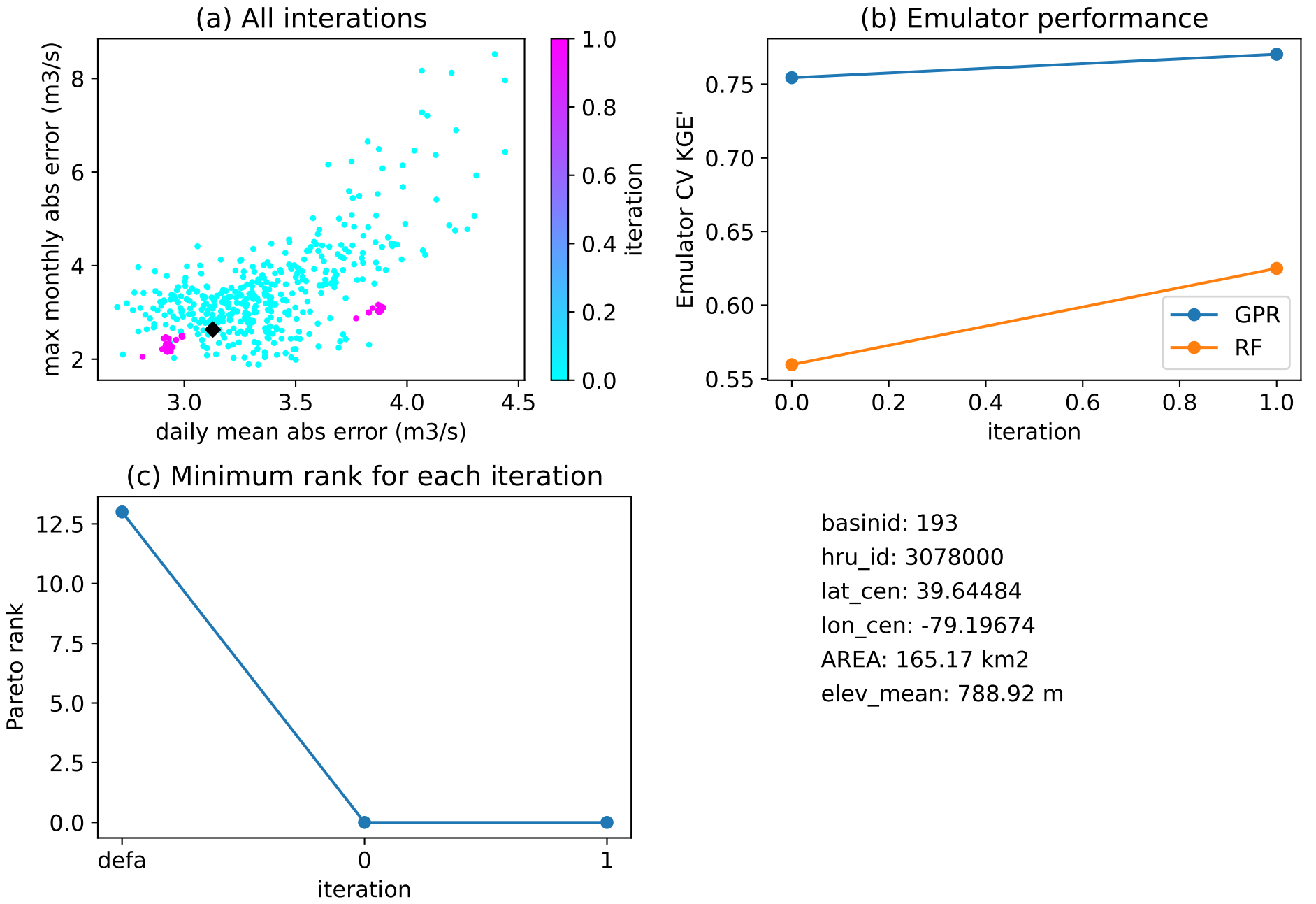


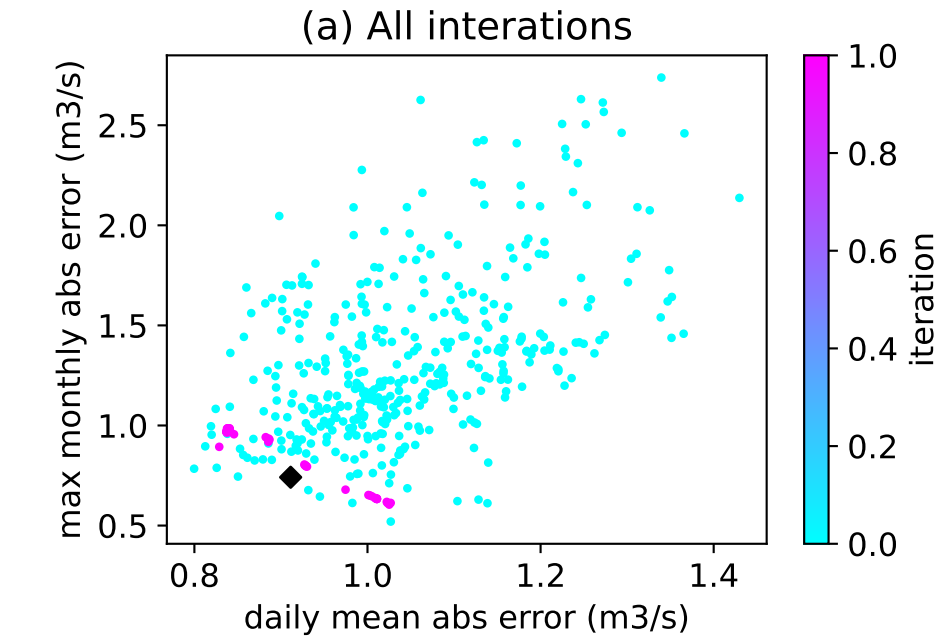


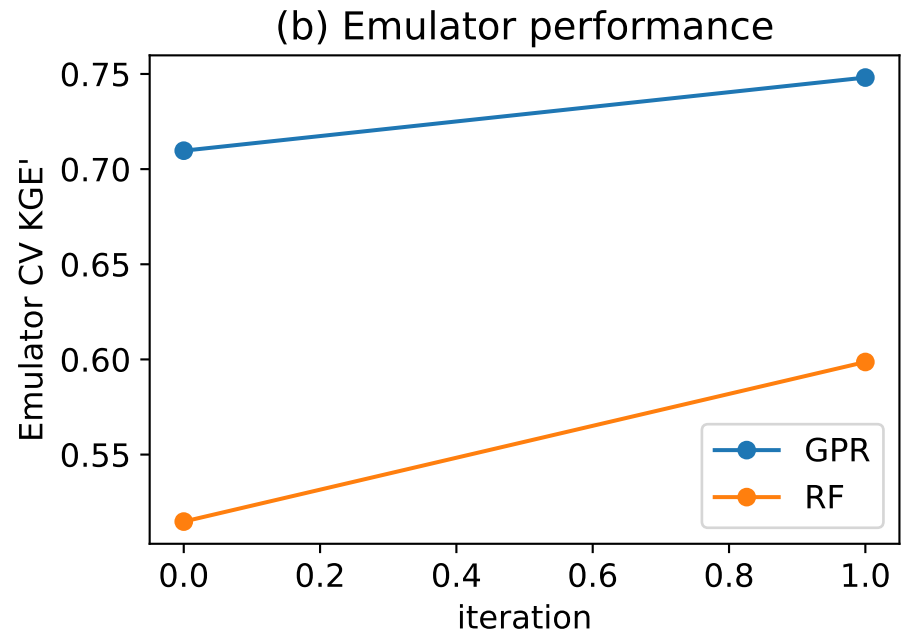


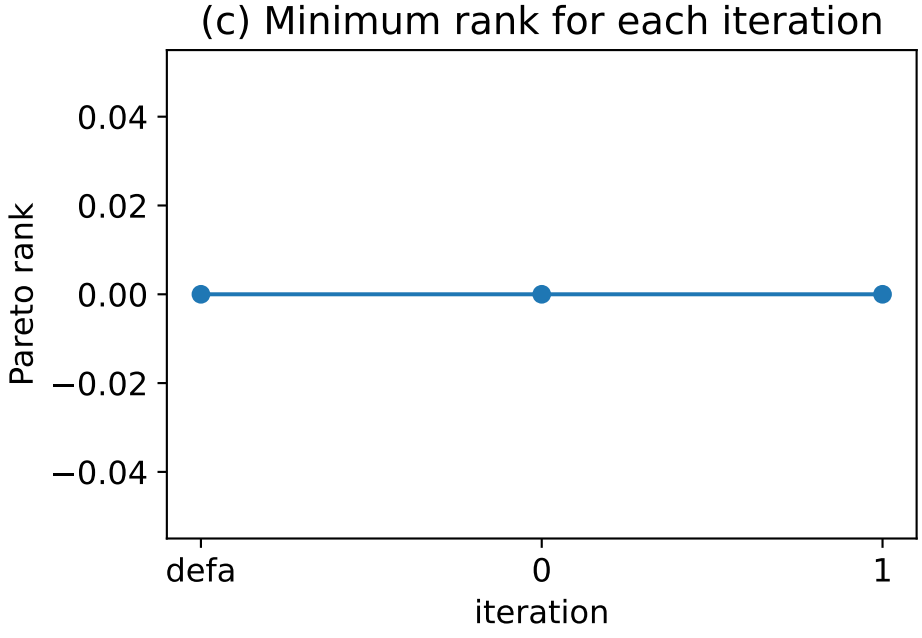
basinid: 191
hru_id: 3070500
lat_cen: 39.70254
lon_cen: -79.61803
AREA: 518.45 km2
elev_mean: 609.34 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 192
hru_id: 3076600
lat_cen: 39.63308
lon_cen: -79.32267
AREA: 128.33 km2
elev_mean: 751.35 m

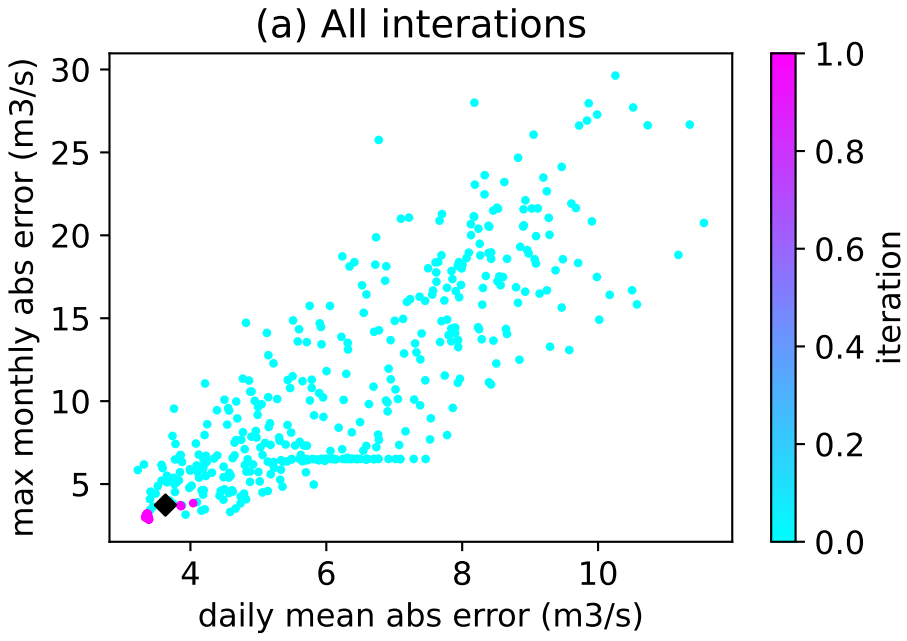

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 193
hru_id: 3078000
lat_cen: 39.64484
lon_cen: -79.19674
AREA: 165.17 km2
elev_mean: 788.92 m

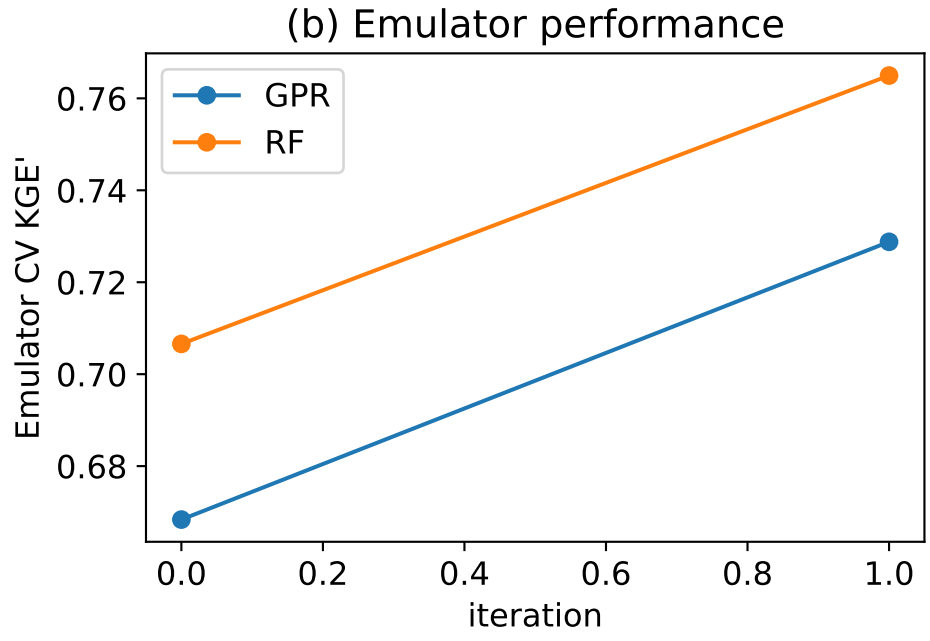


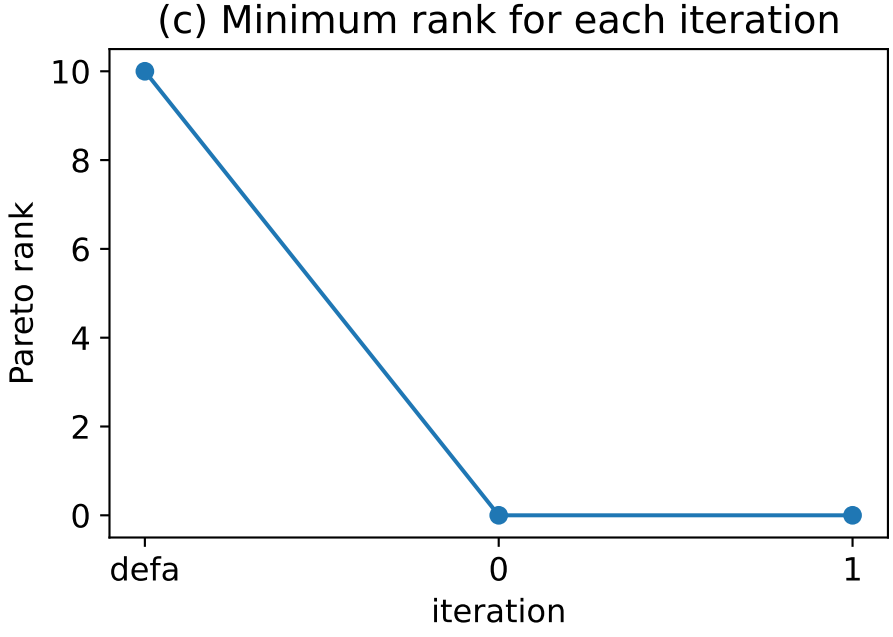




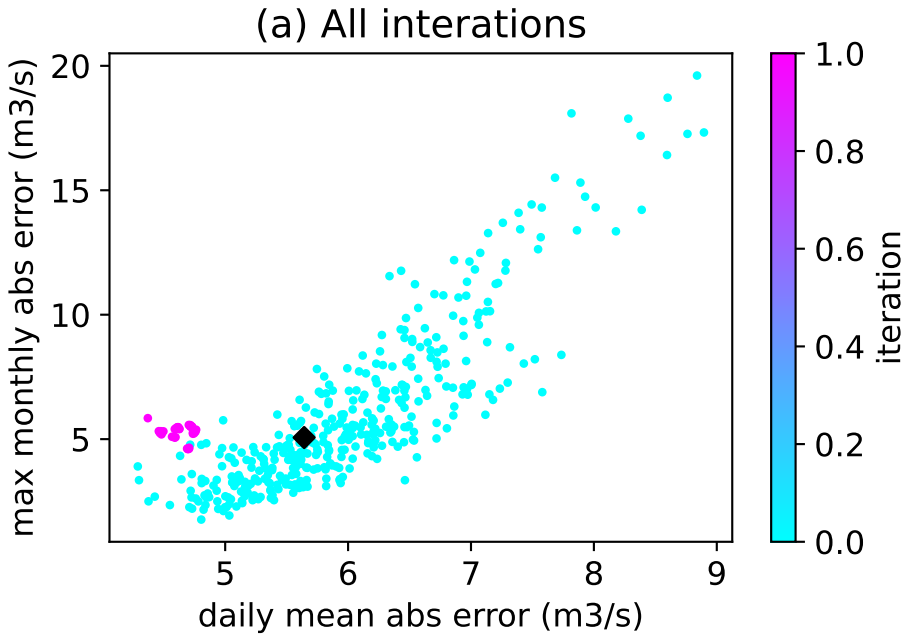
basinid: 194
hru_id: 3140000
lat_cen: 40.41155
lon_cen: -81.82219
AREA: 71.31 km2
elev_mean: 305.78 m

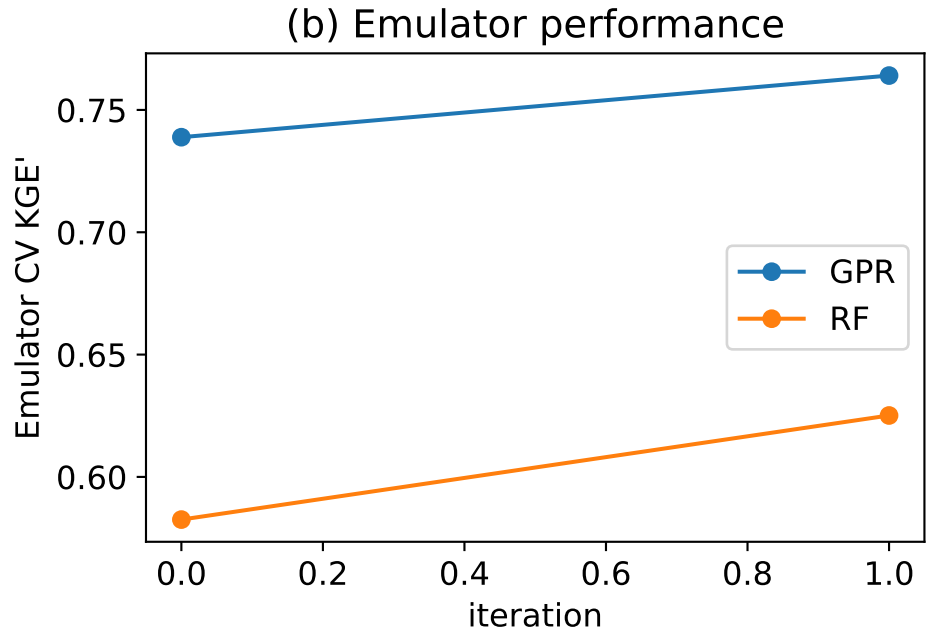


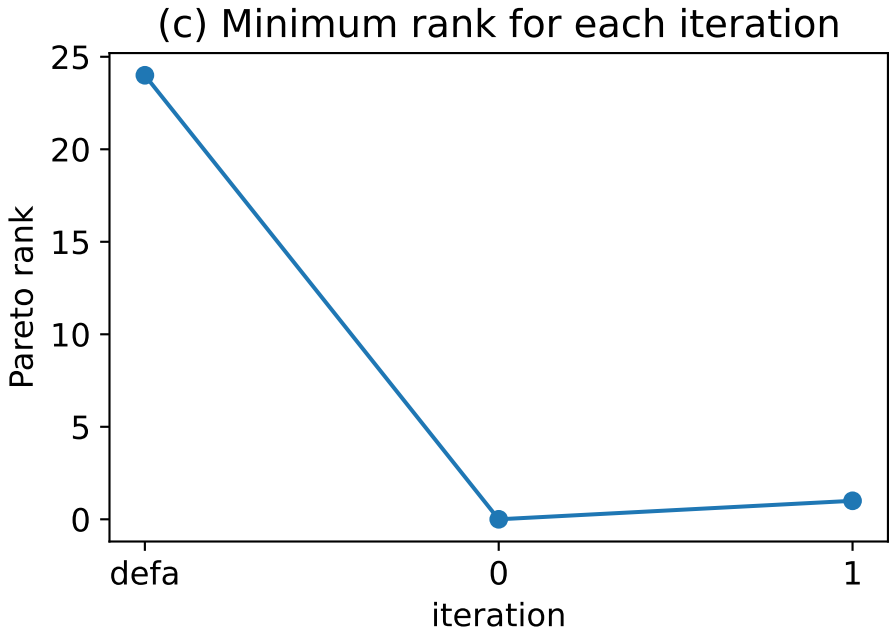




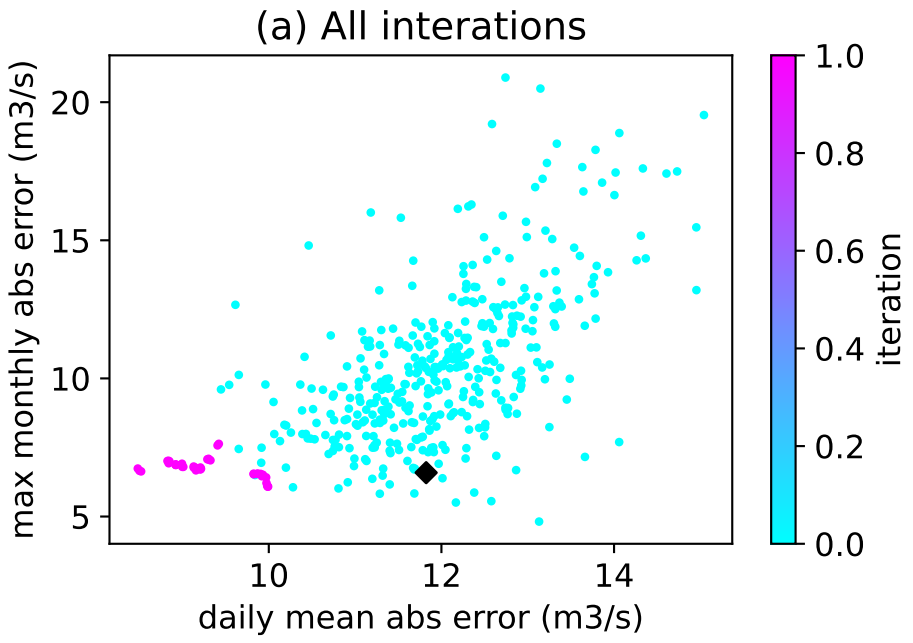
basinid: 195
hru_id: 3144000
lat_cen: 40.22812
lon_cen: -82.20653
AREA: 365.11 km2
elev_mean: 304.97 m

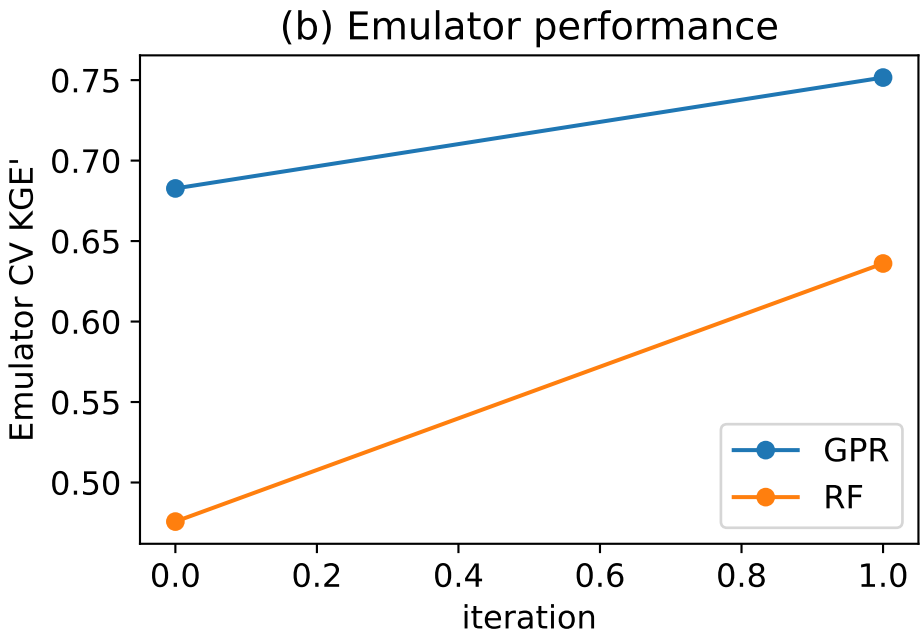


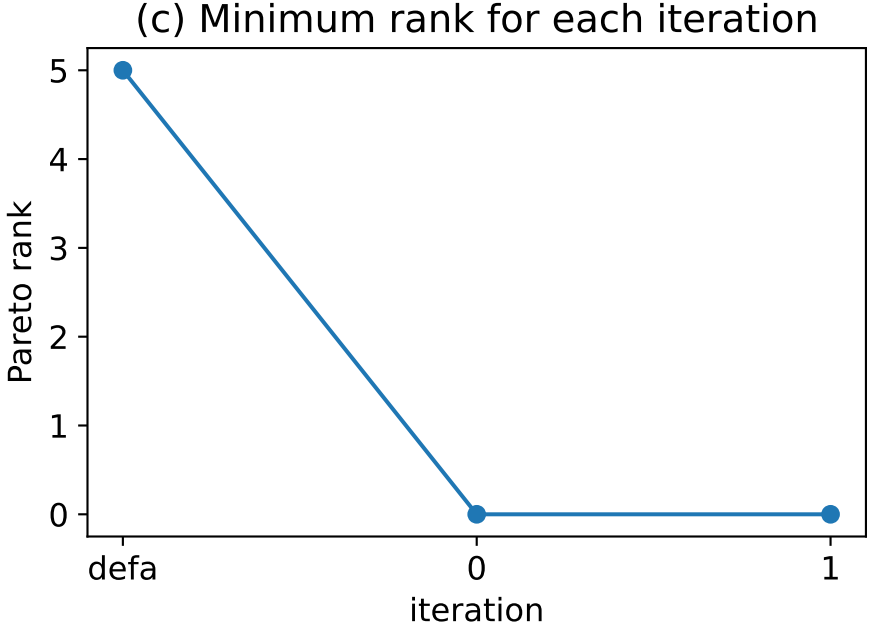




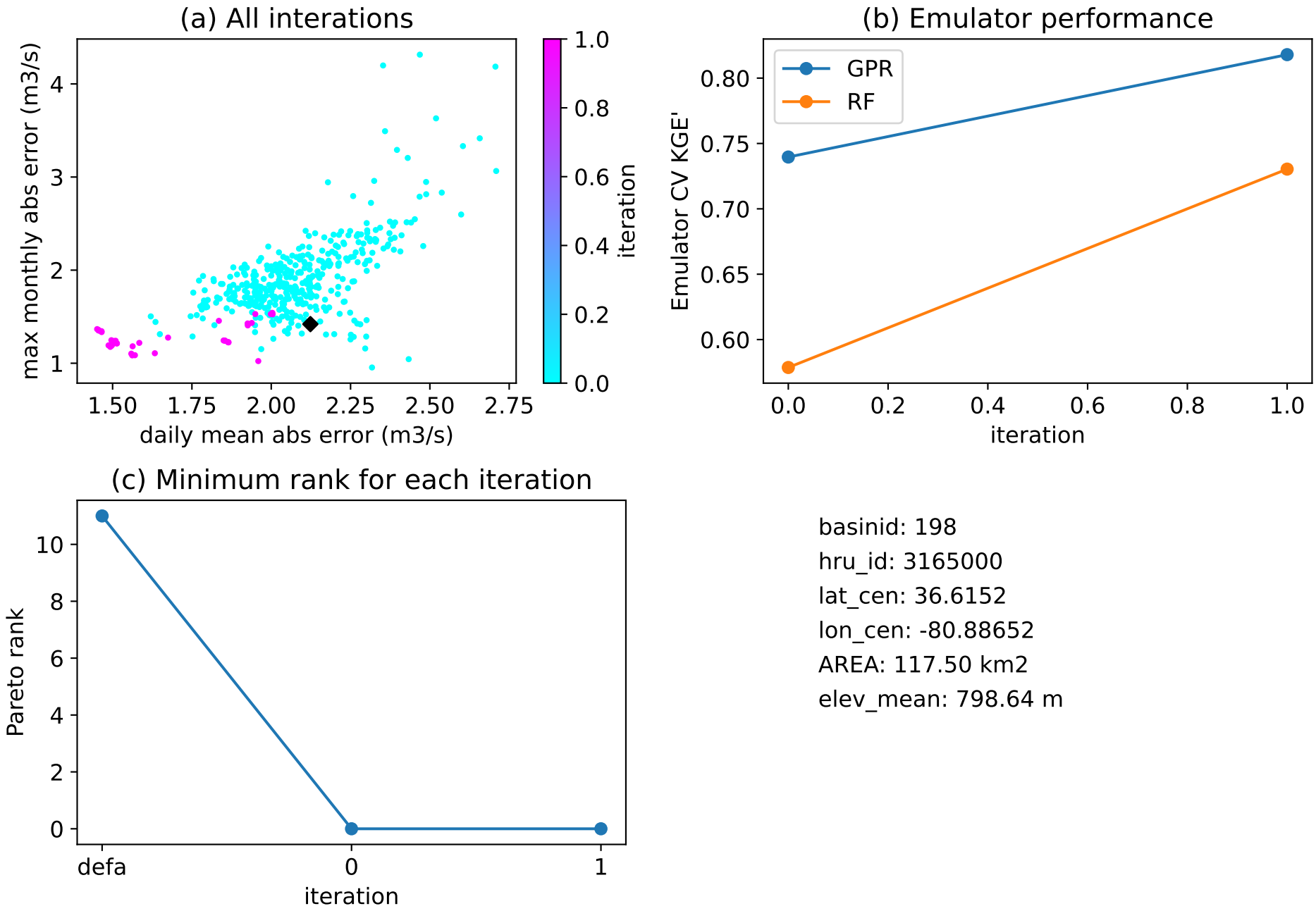
basinid: 196
hru_id: 3159540
lat_cen: 39.15754
lon_cen: -82.00967
AREA: 400.87 km2
elev_mean: 251.40 m

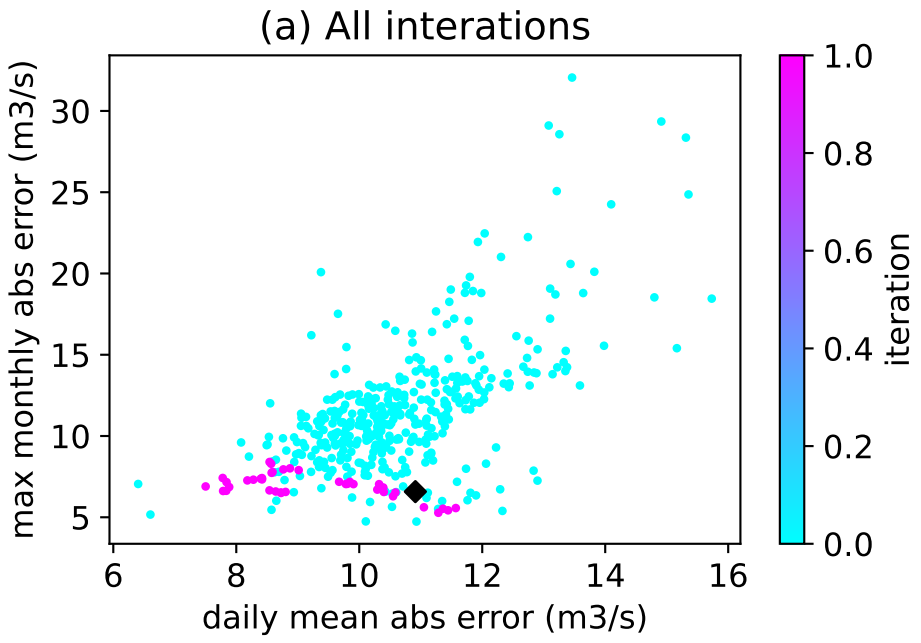


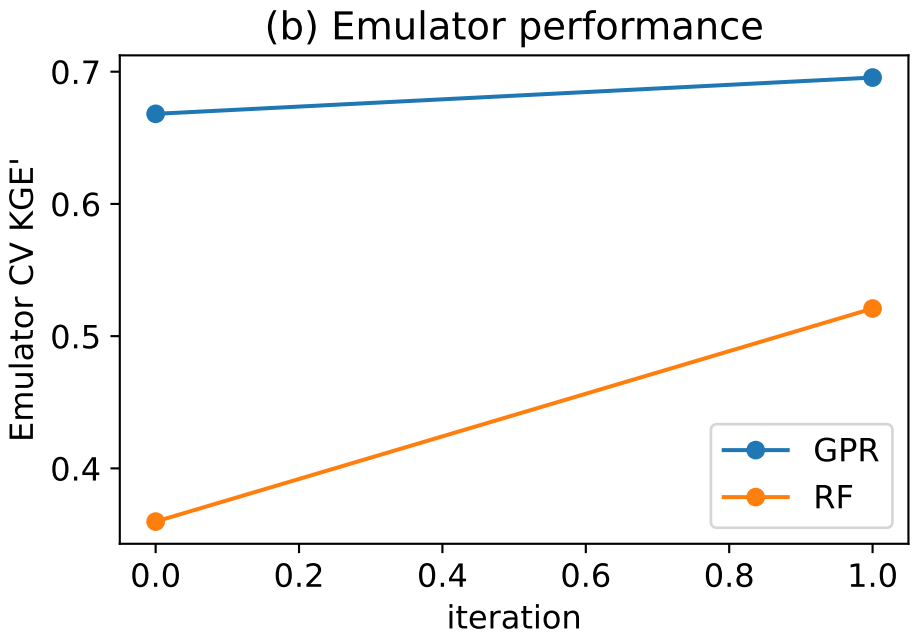


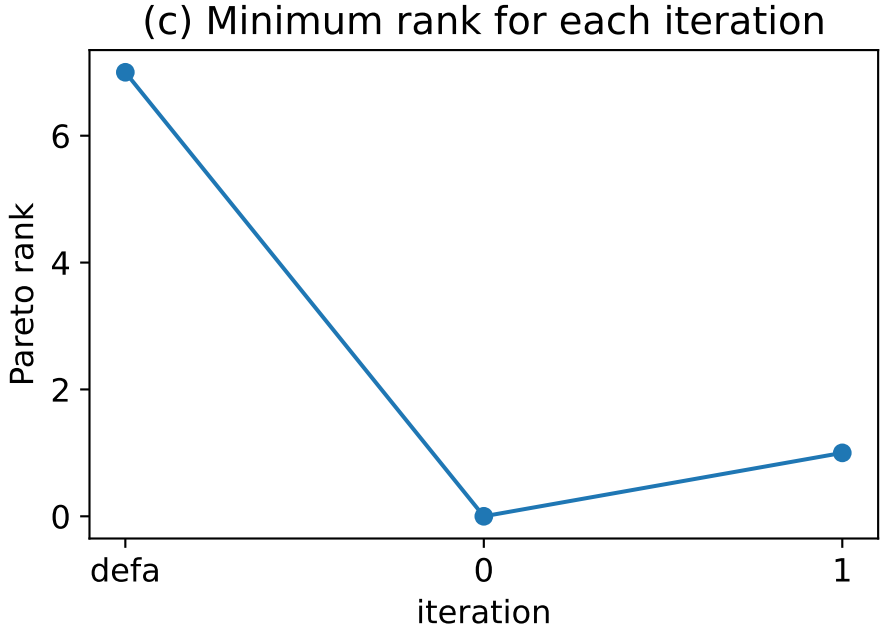


basinid: 197
hru_id: 3161000
lat_cen: 36.2835
lon_cen: -81.56
AREA: 533.64 km2
elev_mean: 1028.04 m

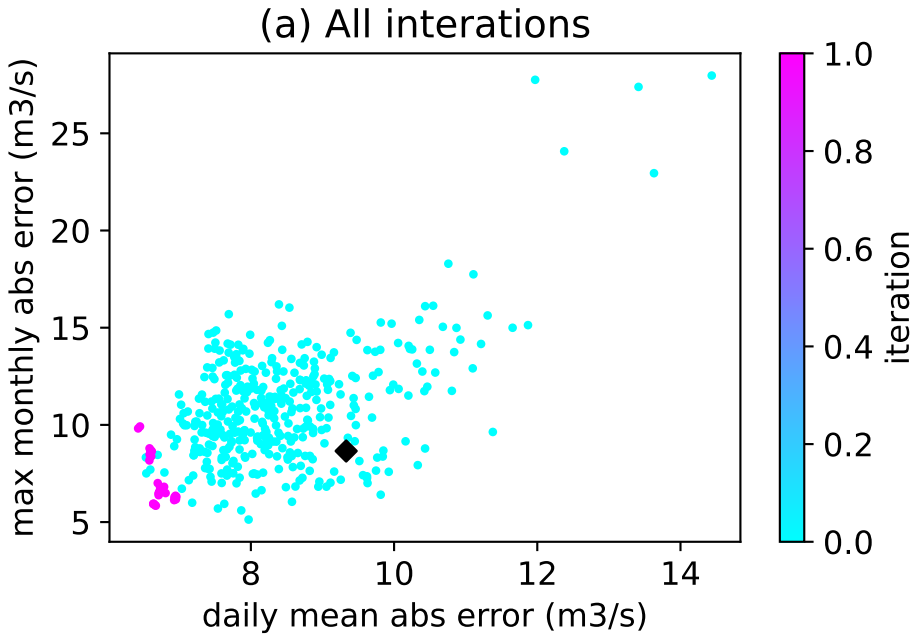

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 198
hru_id: 3165000
lat_cen: 36.6152
lon_cen: -80.88652
AREA: 117.50 km2
elev_mean: 798.64 m

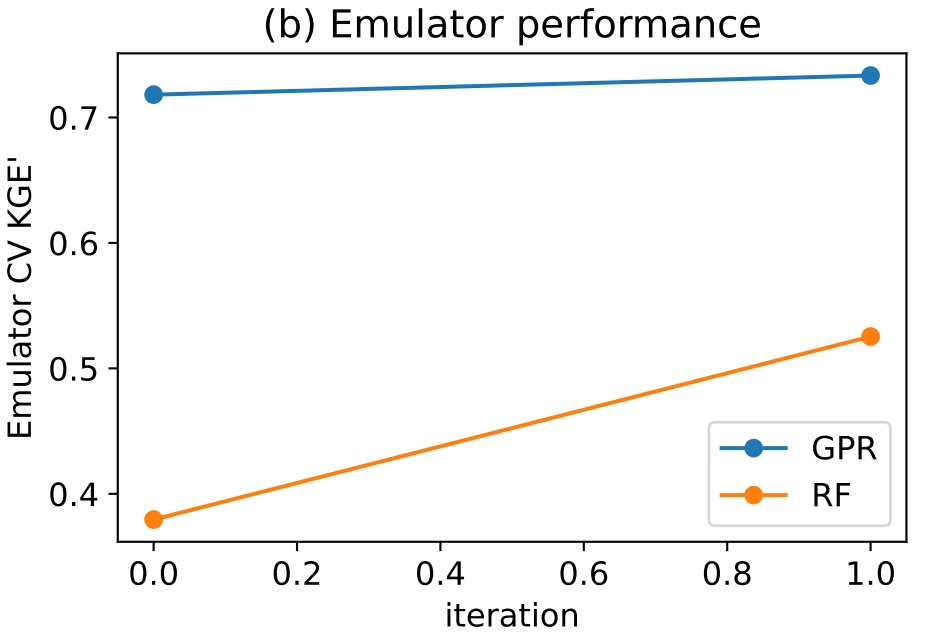


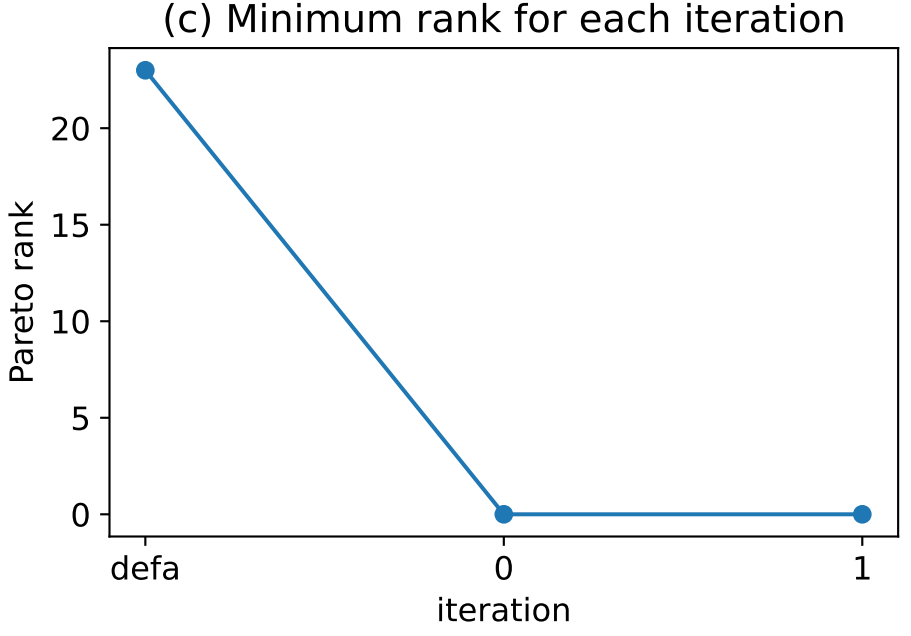




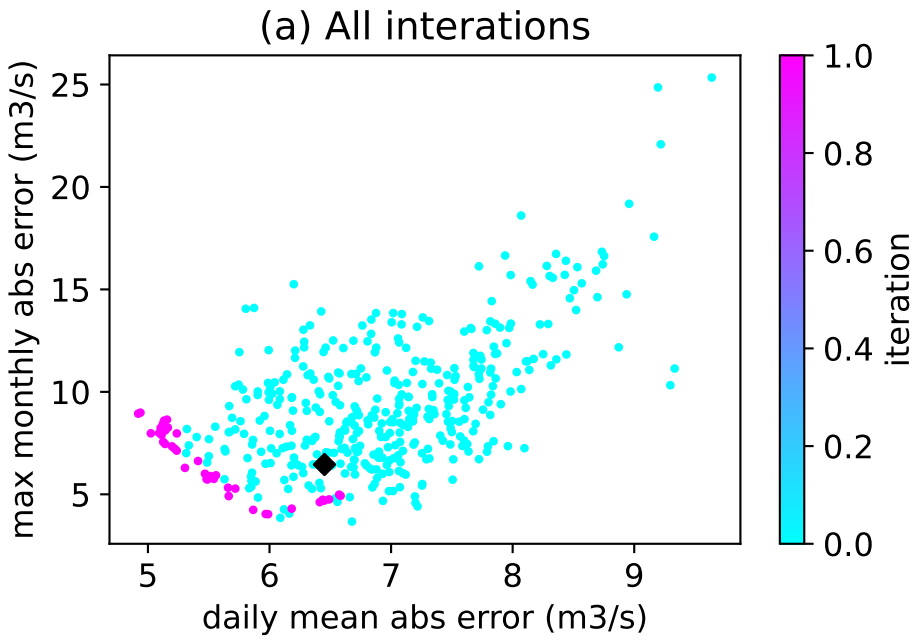
basinid: 199
hru_id: 3170000
lat_cen: 36.96028
lon_cen: -80.36053
AREA: 800.07 km2
elev_mean: 757.82 m

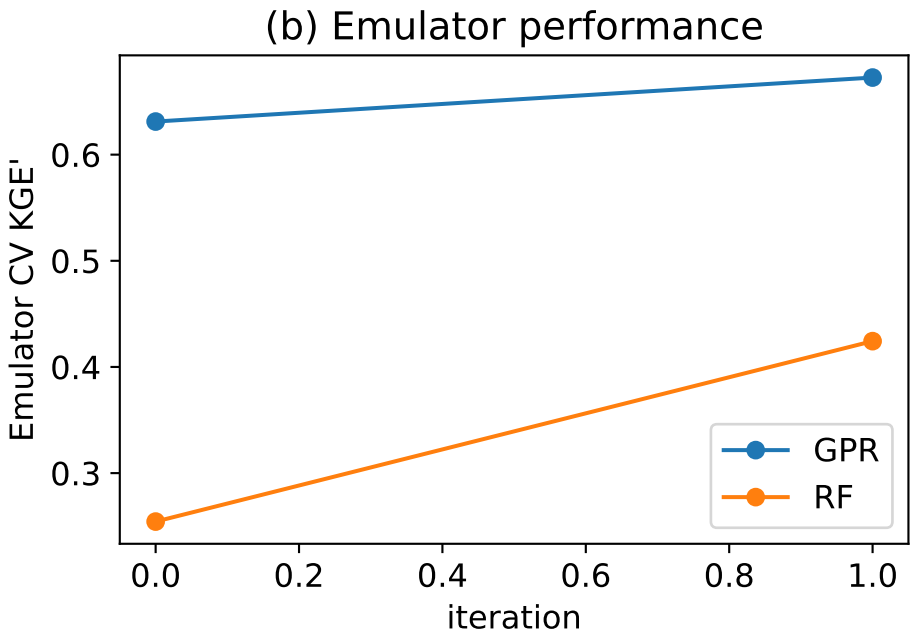


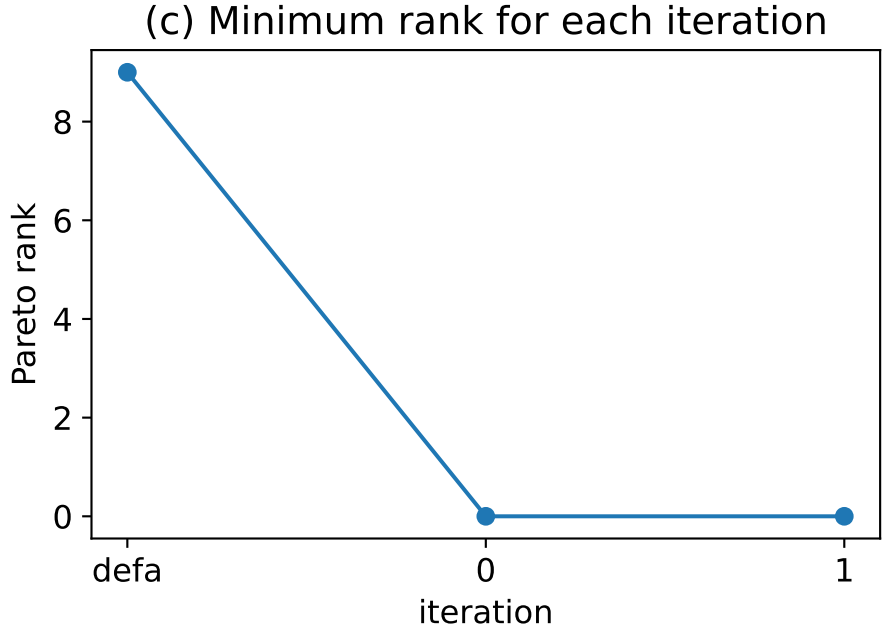




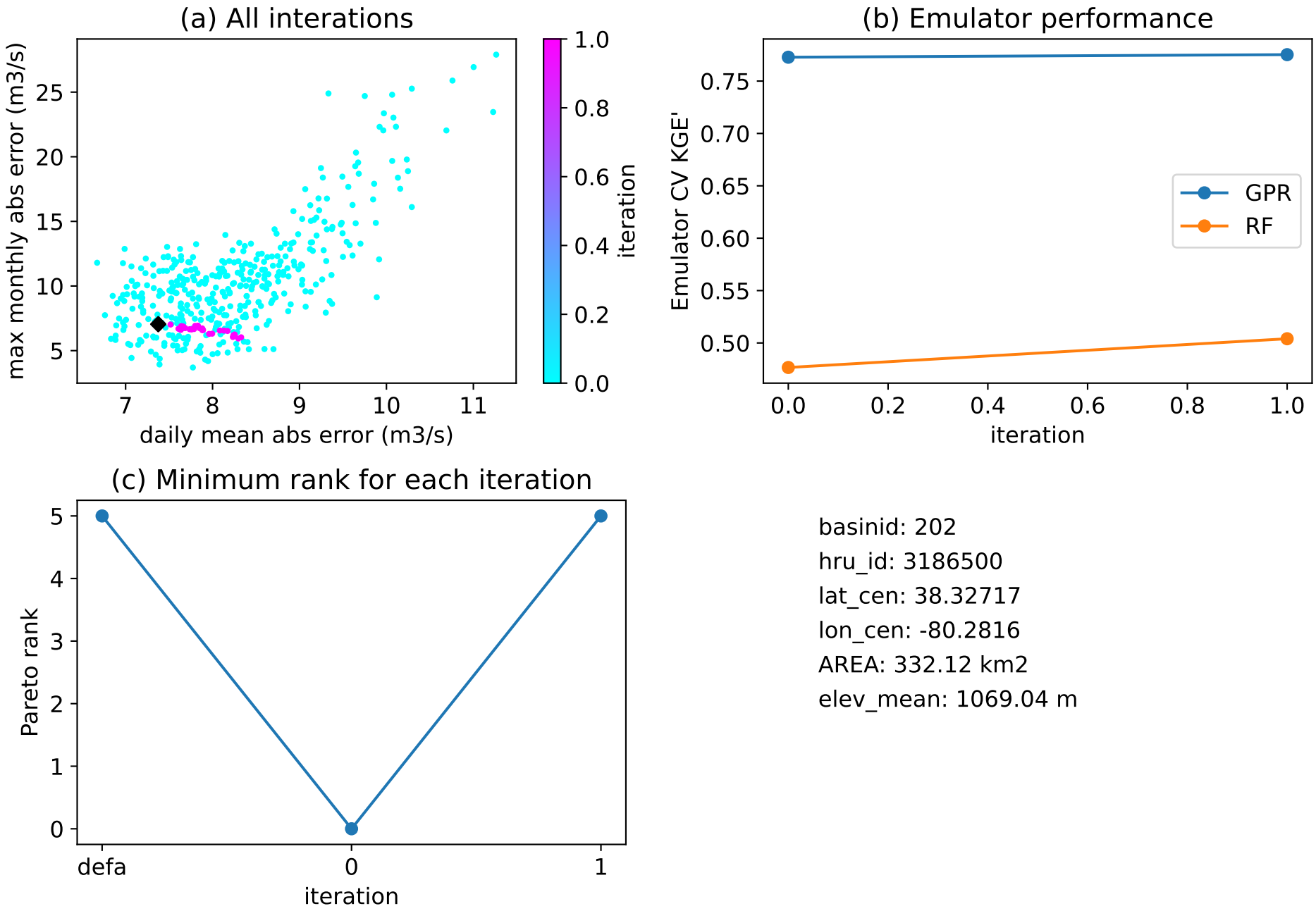
basinid: 200
hru_id: 3173000
lat_cen: 37.15808
lon_cen: -80.94939
AREA: 775.86 km2
elev_mean: 785.36 m

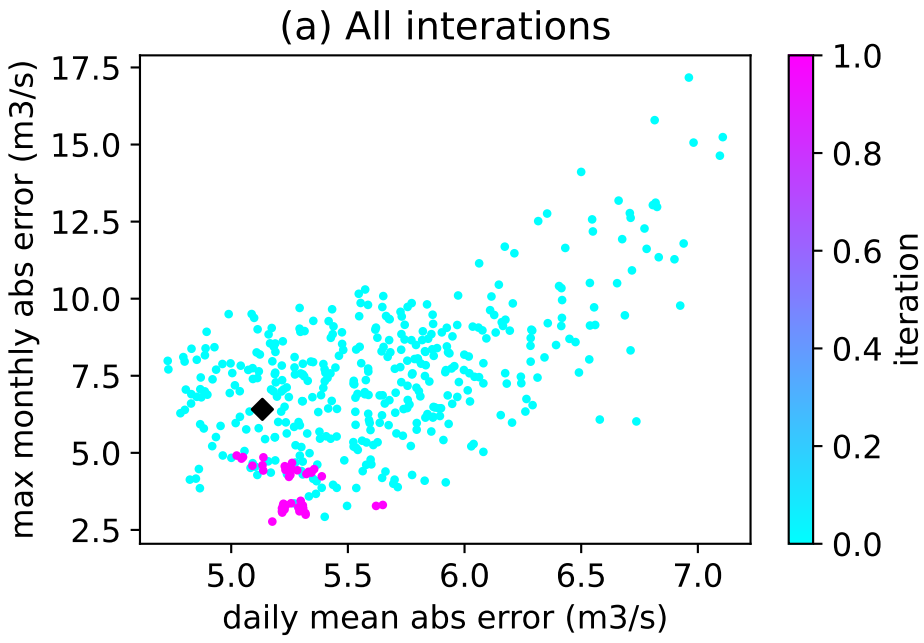


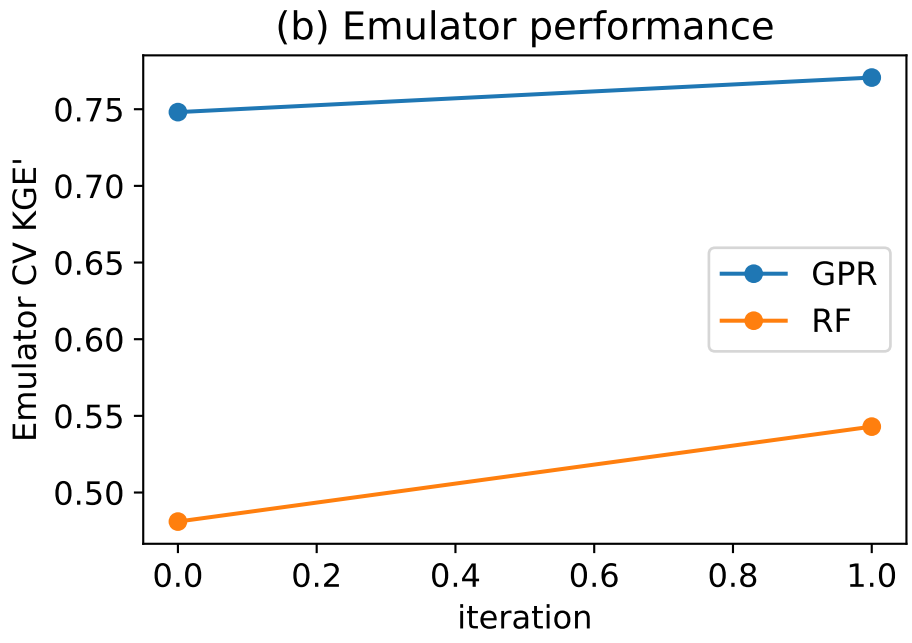


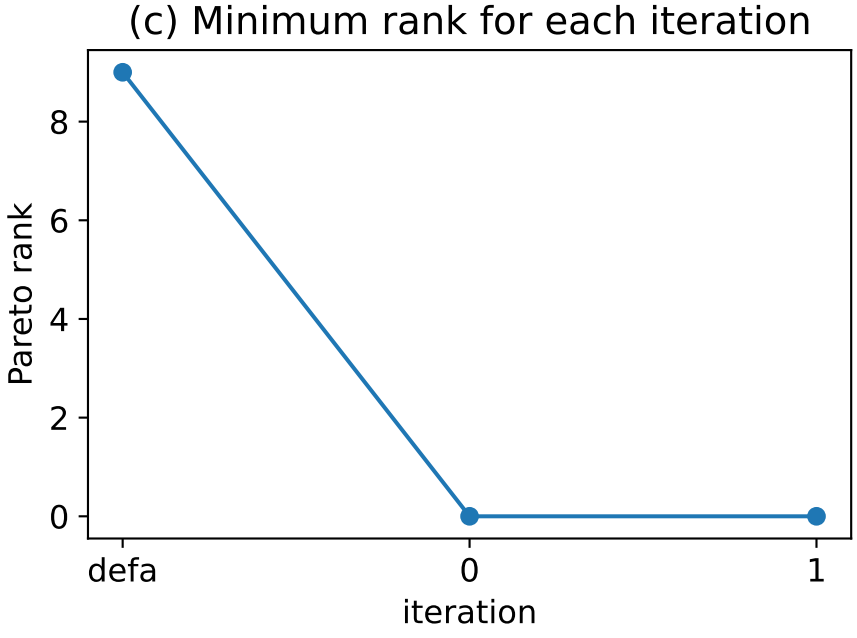


basinid: 201
hru_id: 3180500
lat_cen: 38.60639
lon_cen: -79.7417
AREA: 346.49 km2
elev_mean: 1055.54 m

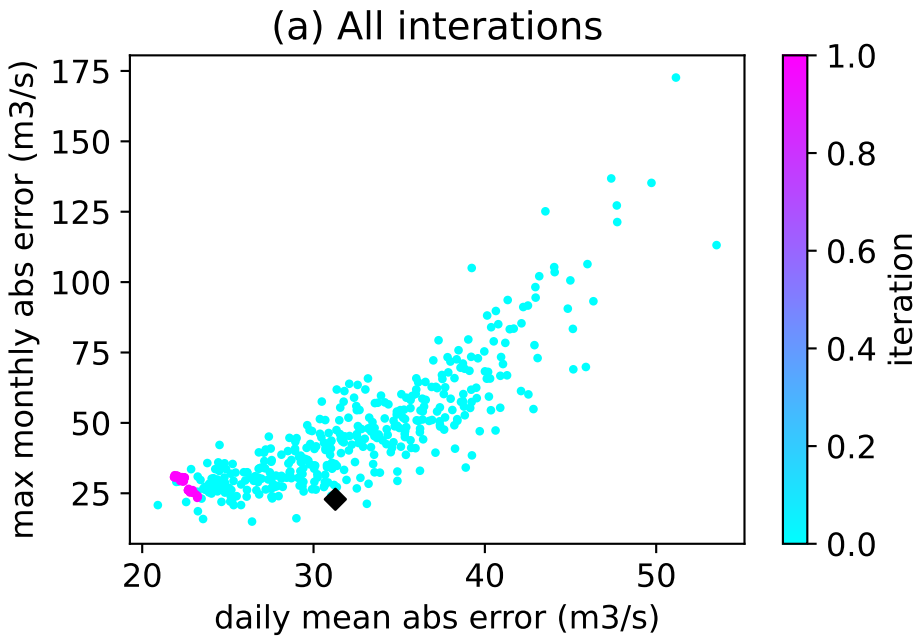

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 202
hru_id: 3186500
lat_cen: 38.32717
lon_cen: -80.2816
AREA: 332.12 km2
elev_mean: 1069.04 m

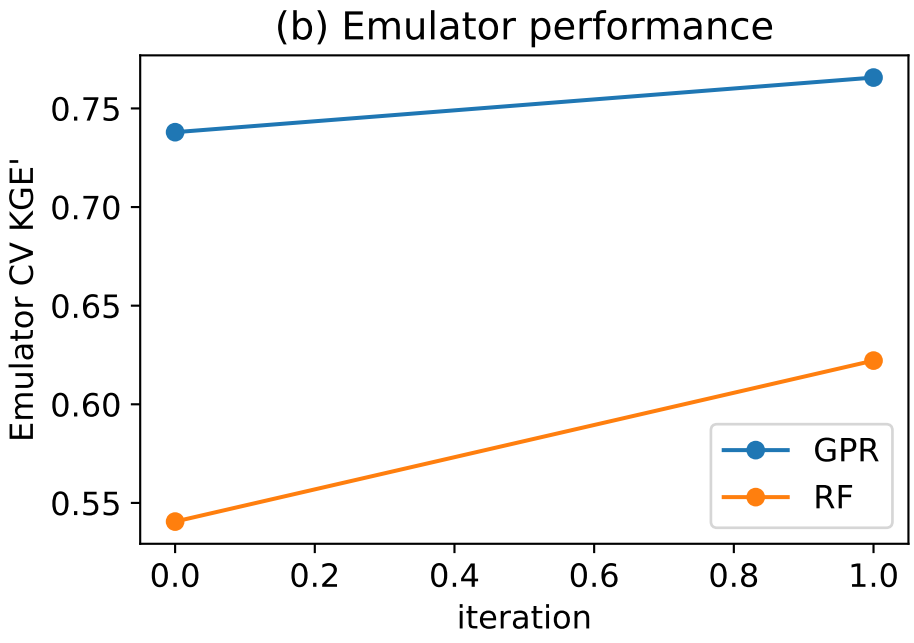


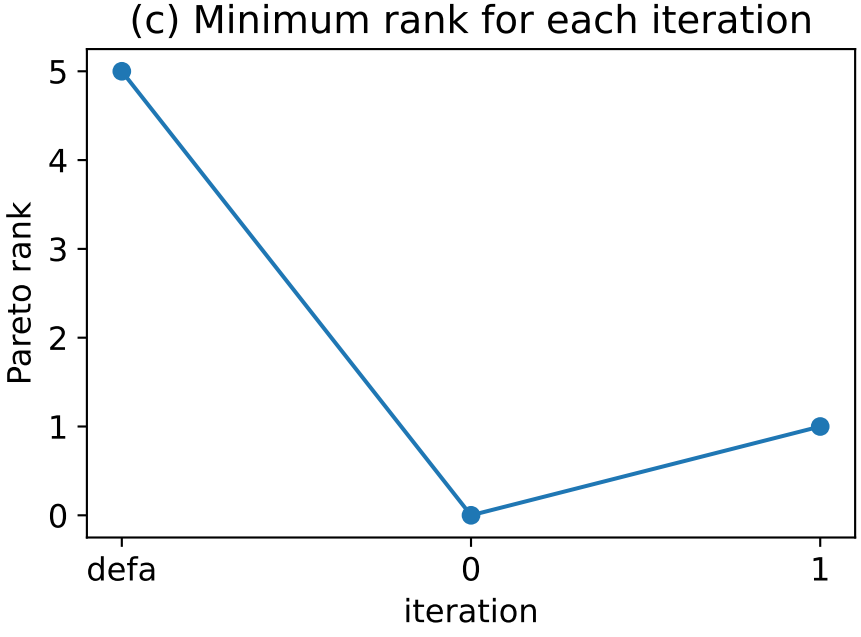




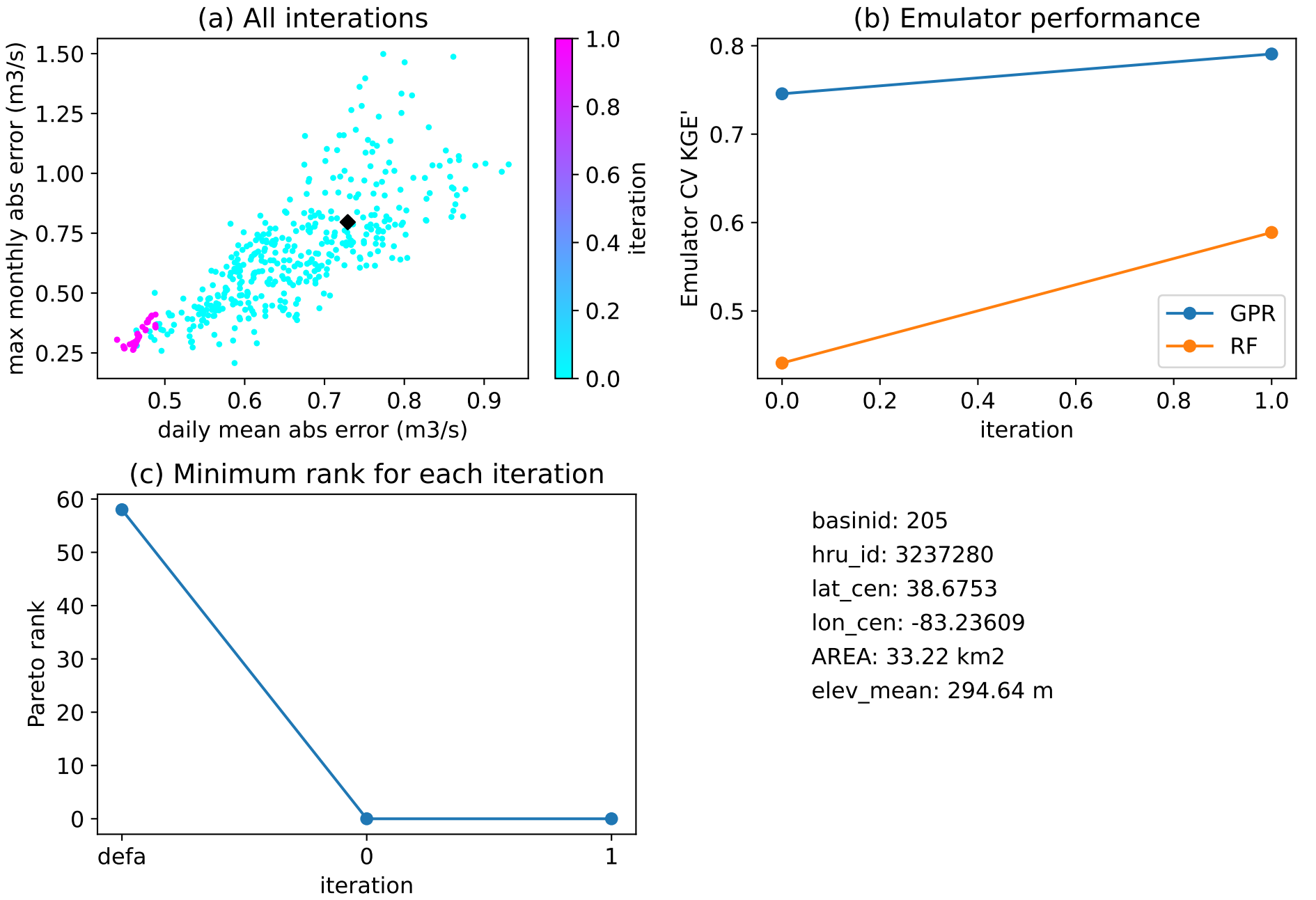
basinid: 203
hru_id: 3187500
lat_cen: 38.26585
lon_cen: -80.36093
AREA: 208.00 km2
elev_mean: 1073.87 m

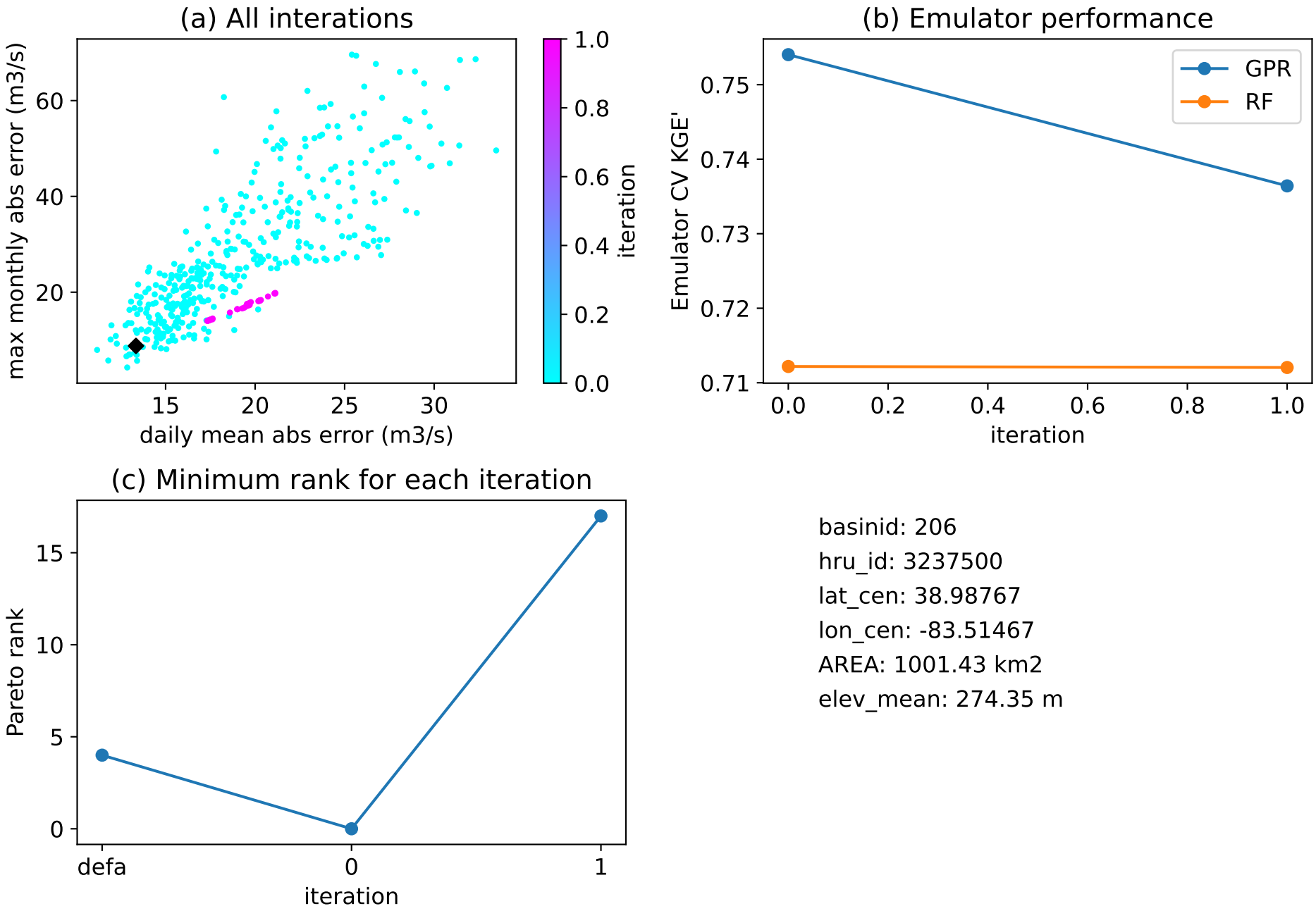


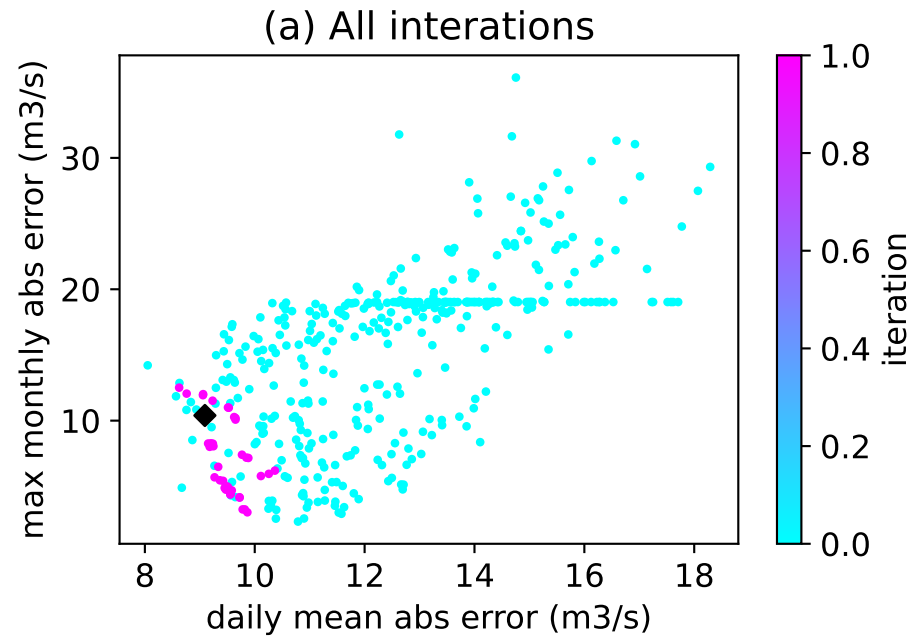


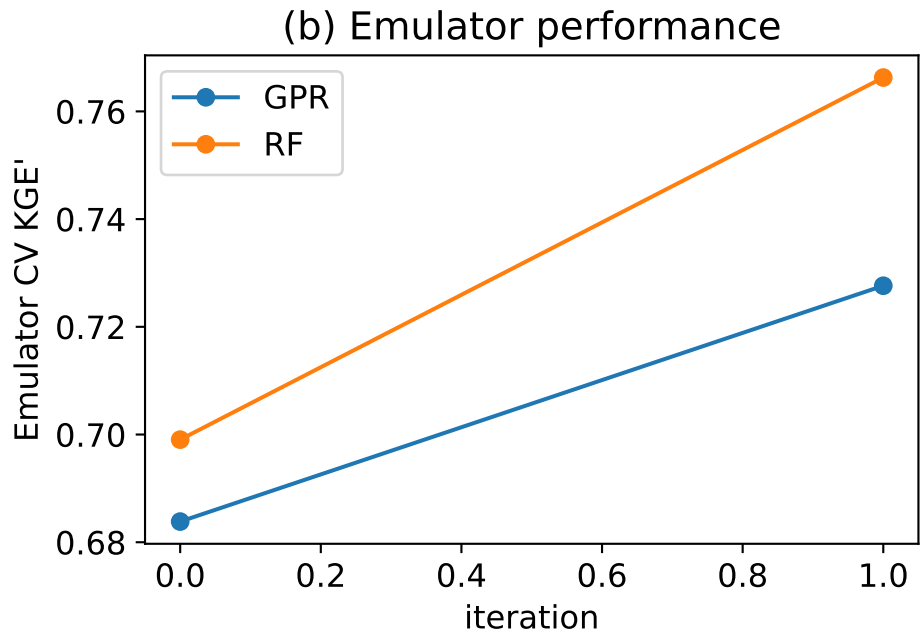


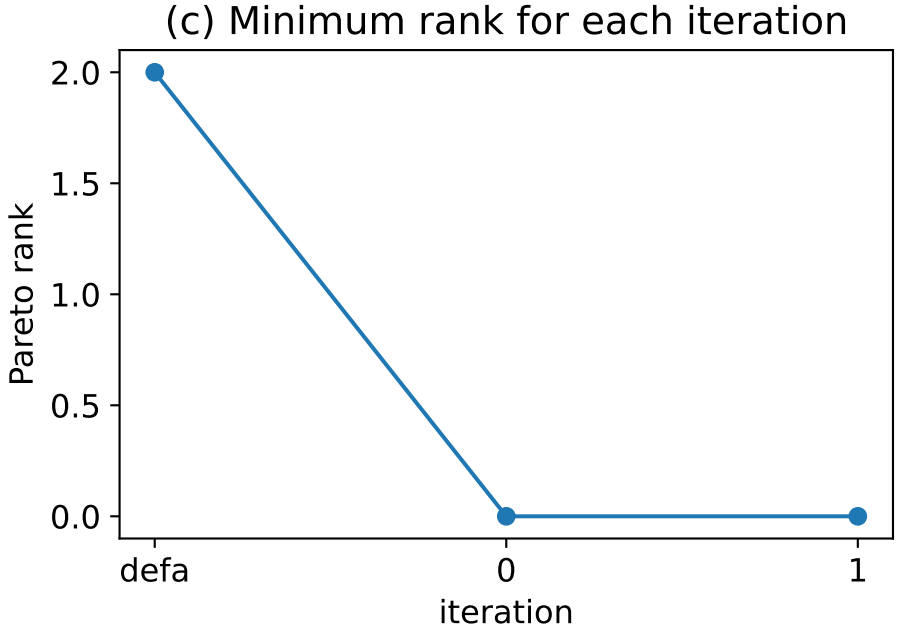
basinid: 204
hru_id: 3213700
lat_cen: 37.42337
lon_cen: -81.81715
AREA: 2431.42 km2
elev_mean: 530.45 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 205
hru_id: 3237280
lat_cen: 38.6753
lon_cen: -83.23609
AREA: 33.22 km2
elev_mean: 294.64 m

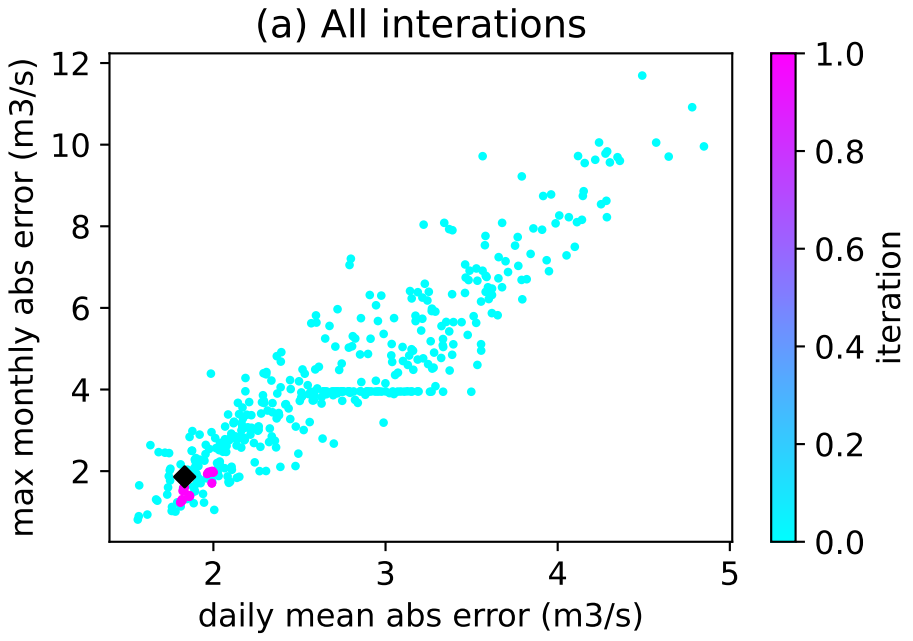

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 206
hru_id: 3237500
lat_cen: 38.98767
lon_cen: -83.51467
AREA: 1001.43 km2
elev_mean: 274.35 m

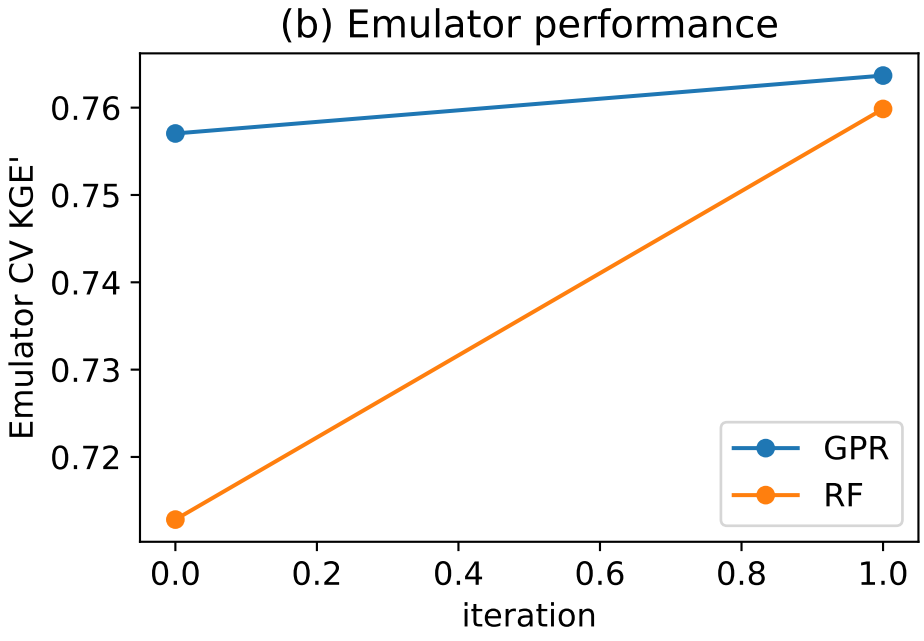


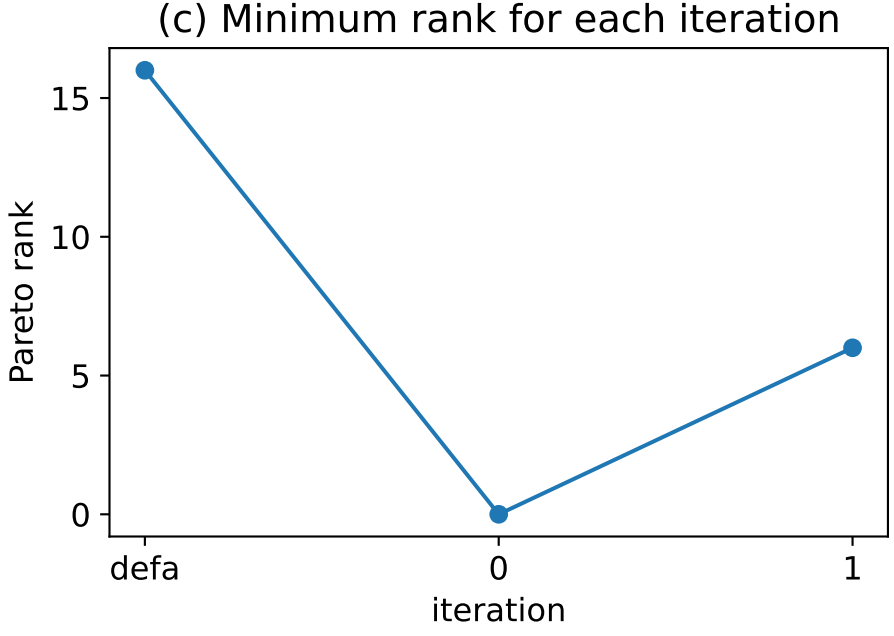




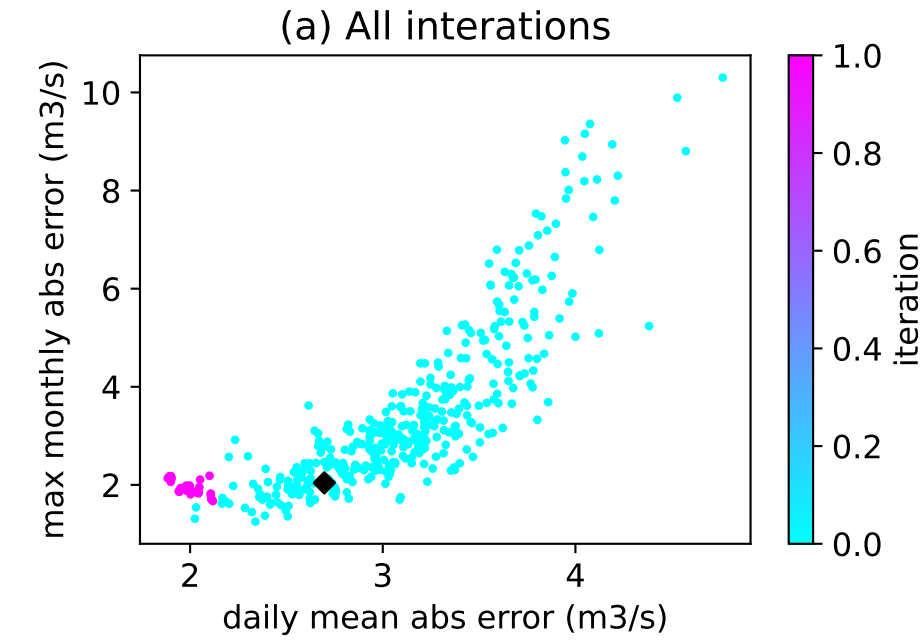
basinid: 207
hru_id: 3238500
lat_cen: 39.04821
lon_cen: -83.8235
AREA: 564.17 km2
elev_mean: 288.04 m

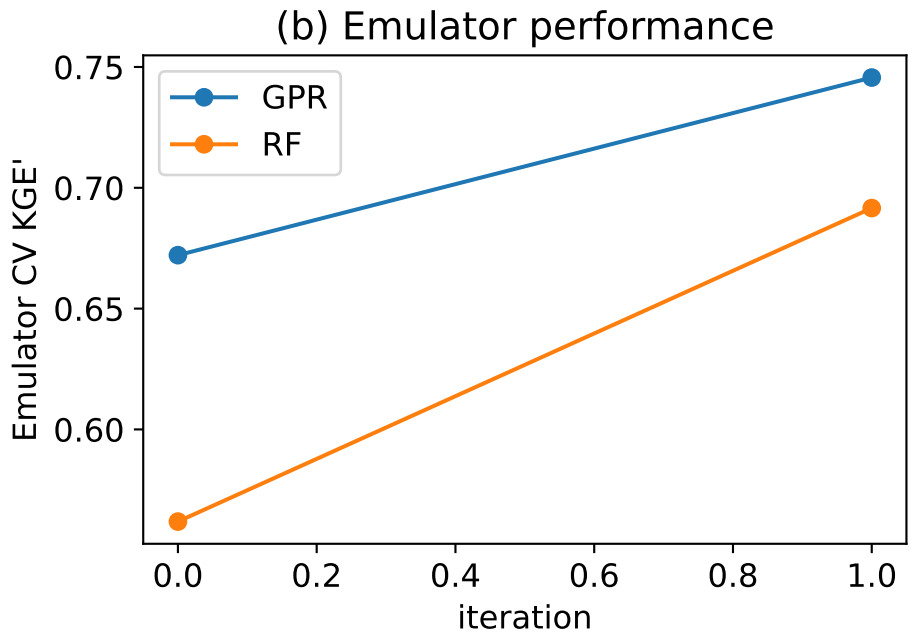


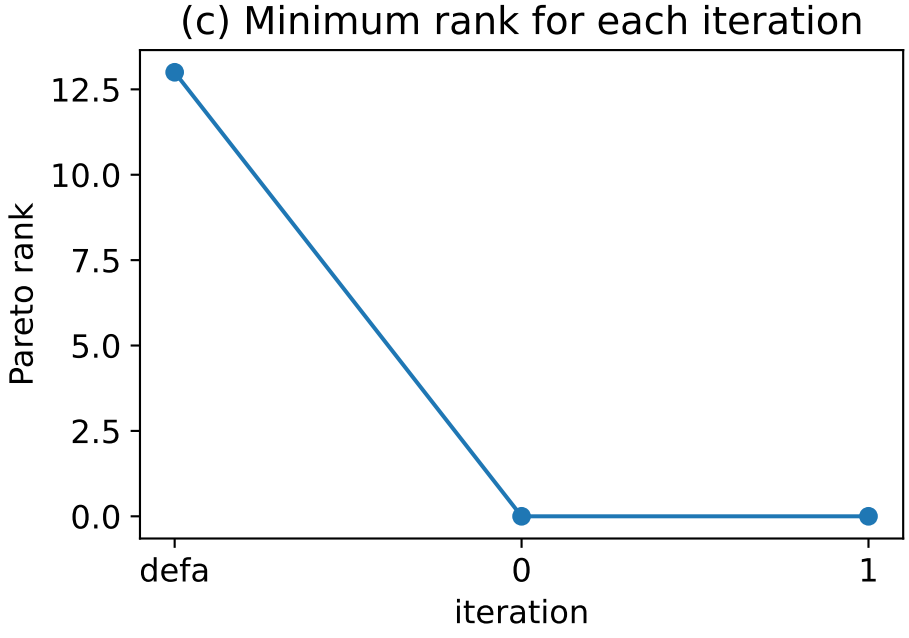




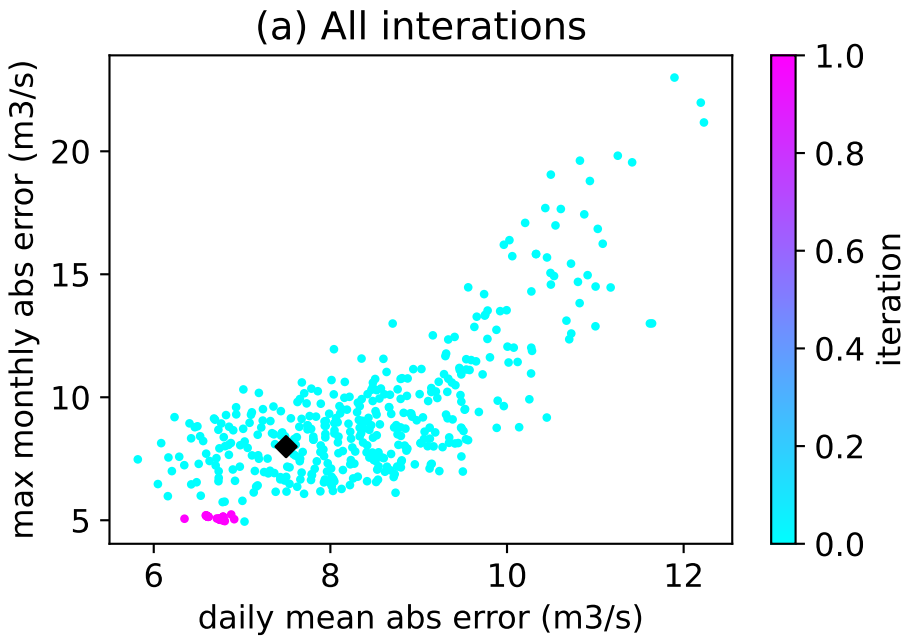
basinid: 208
hru_id: 3241500
lat_cen: 39.75141
lon_cen: -83.73149
AREA: 173.48 km2
elev_mean: 321.38 m

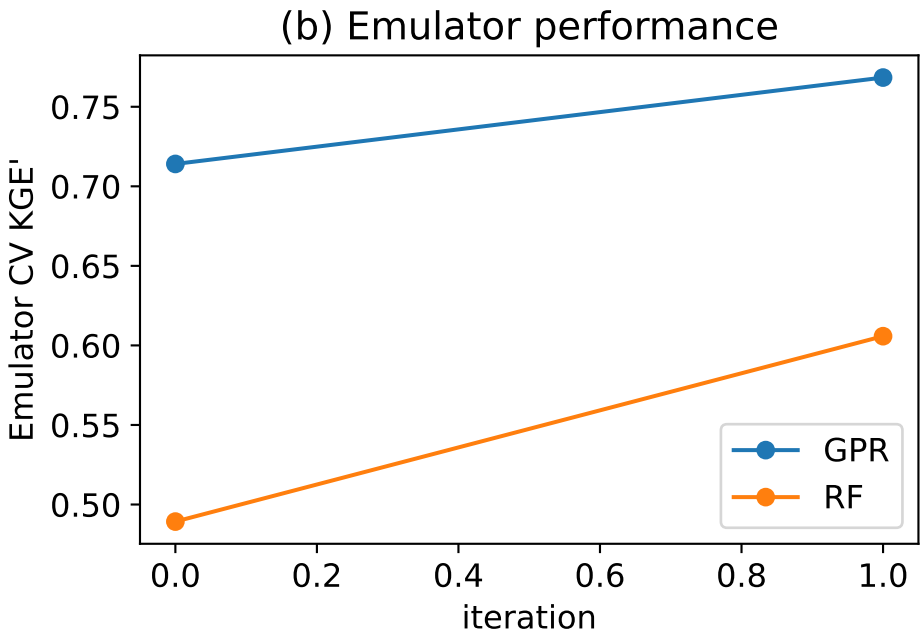


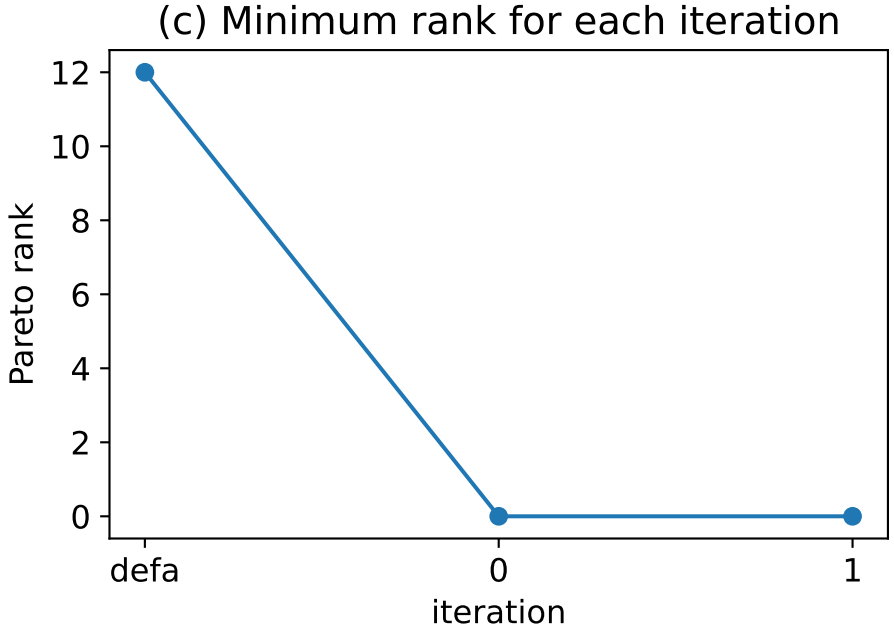




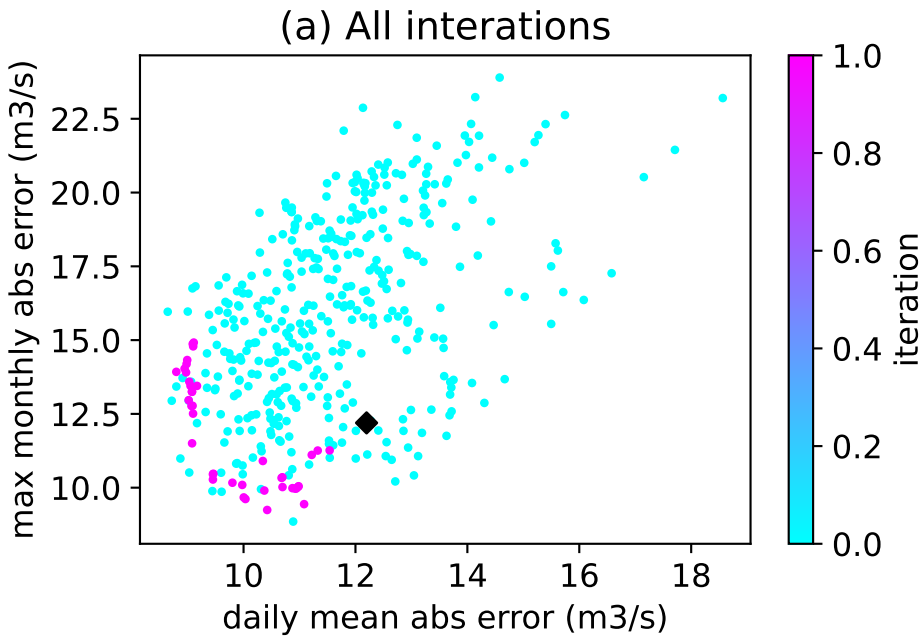
basinid: 209
hru_id: 3280700
lat_cen: 37.08573
lon_cen: -83.24657
AREA: 158.56 km2
elev_mean: 465.76 m

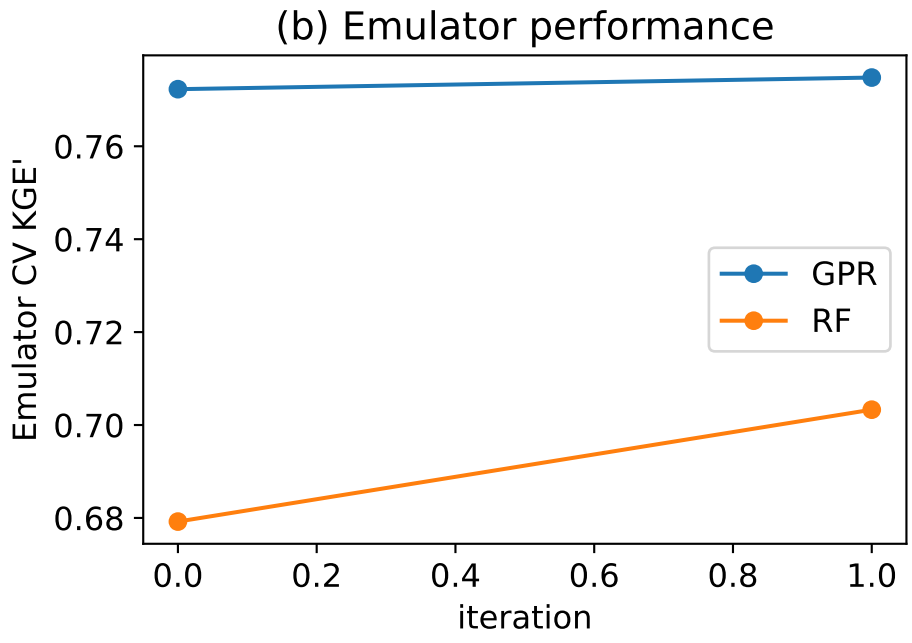


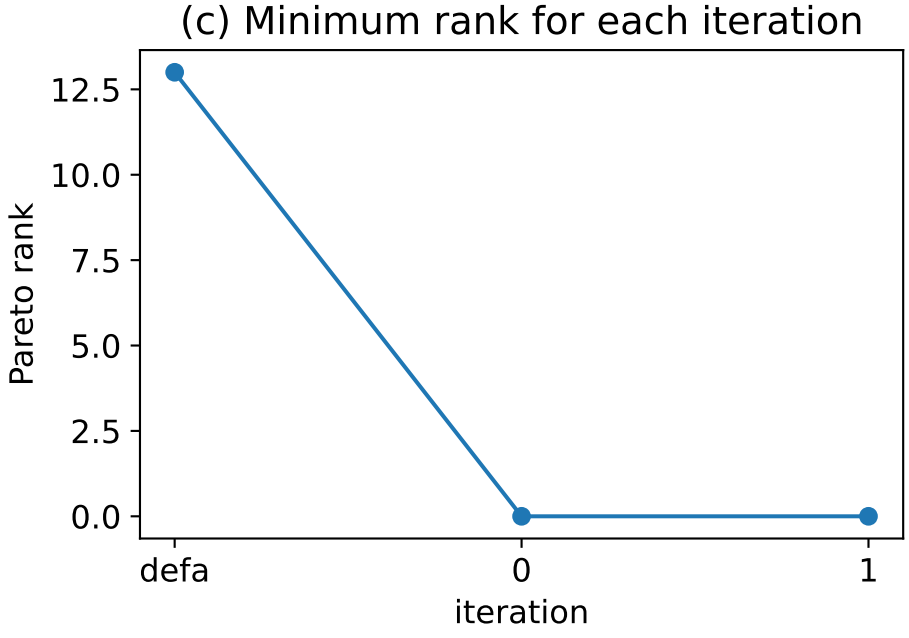




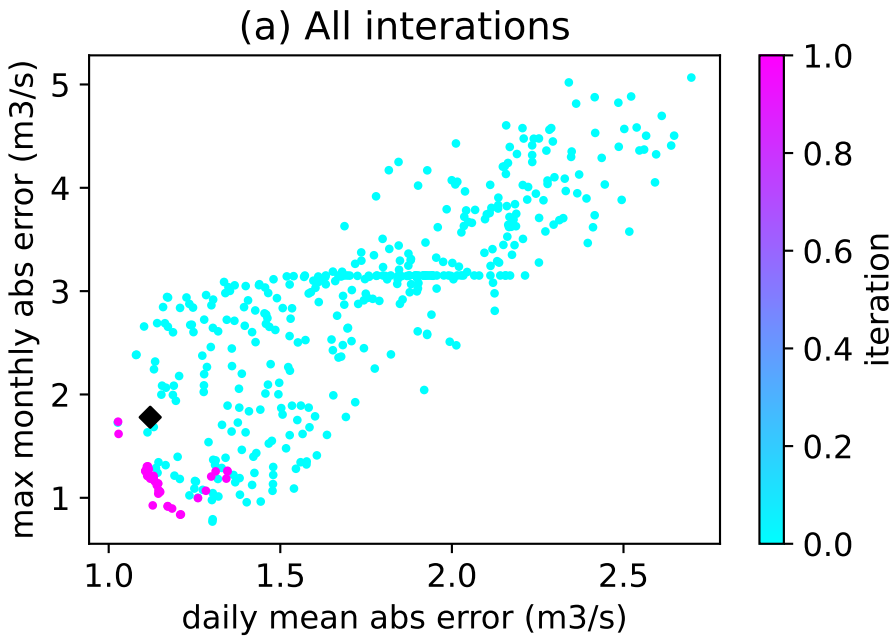
basinid: 210
hru_id: 3281100
lat_cen: 37.04821
lon_cen: -83.74724
AREA: 425.26 km2
elev_mean: 377.83 m

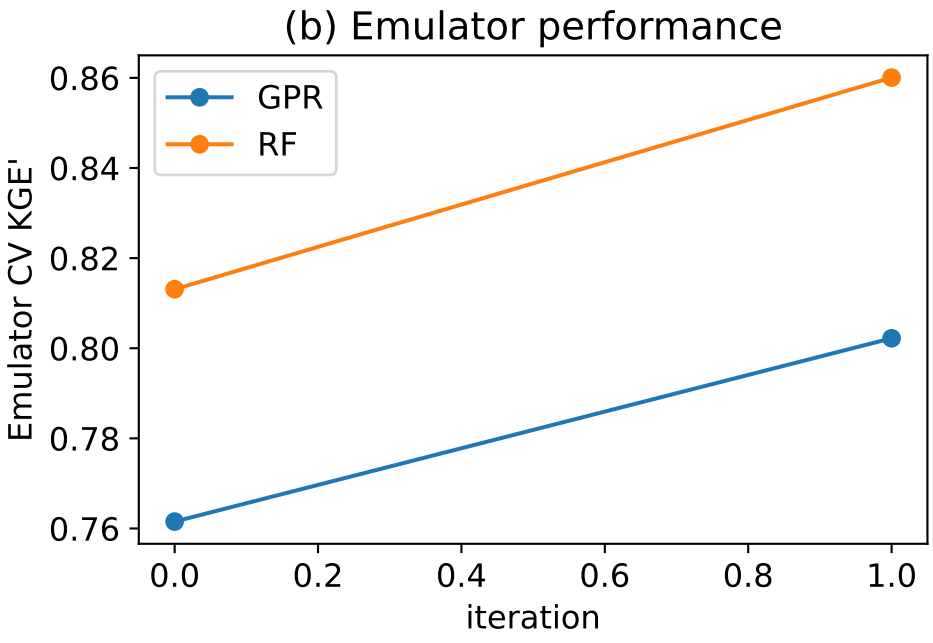


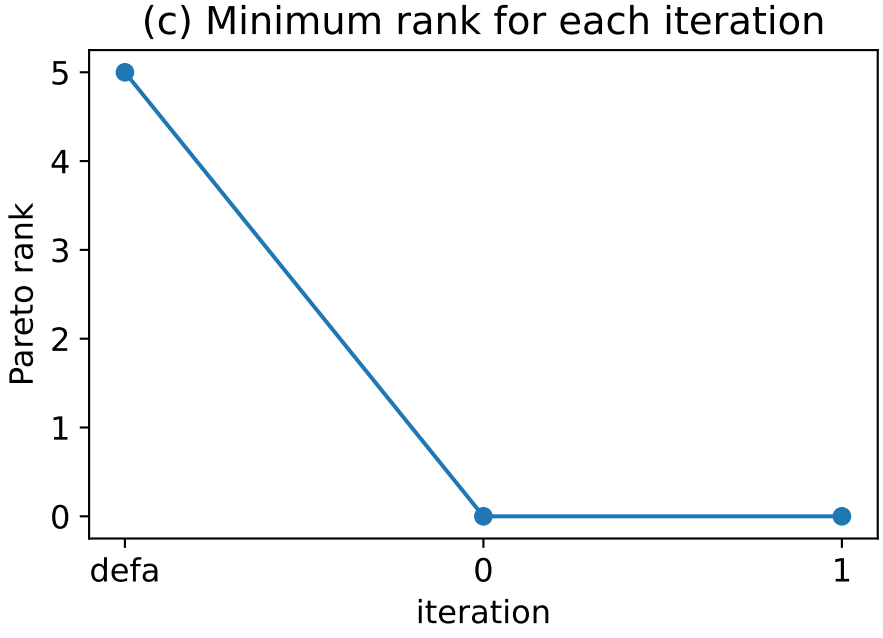




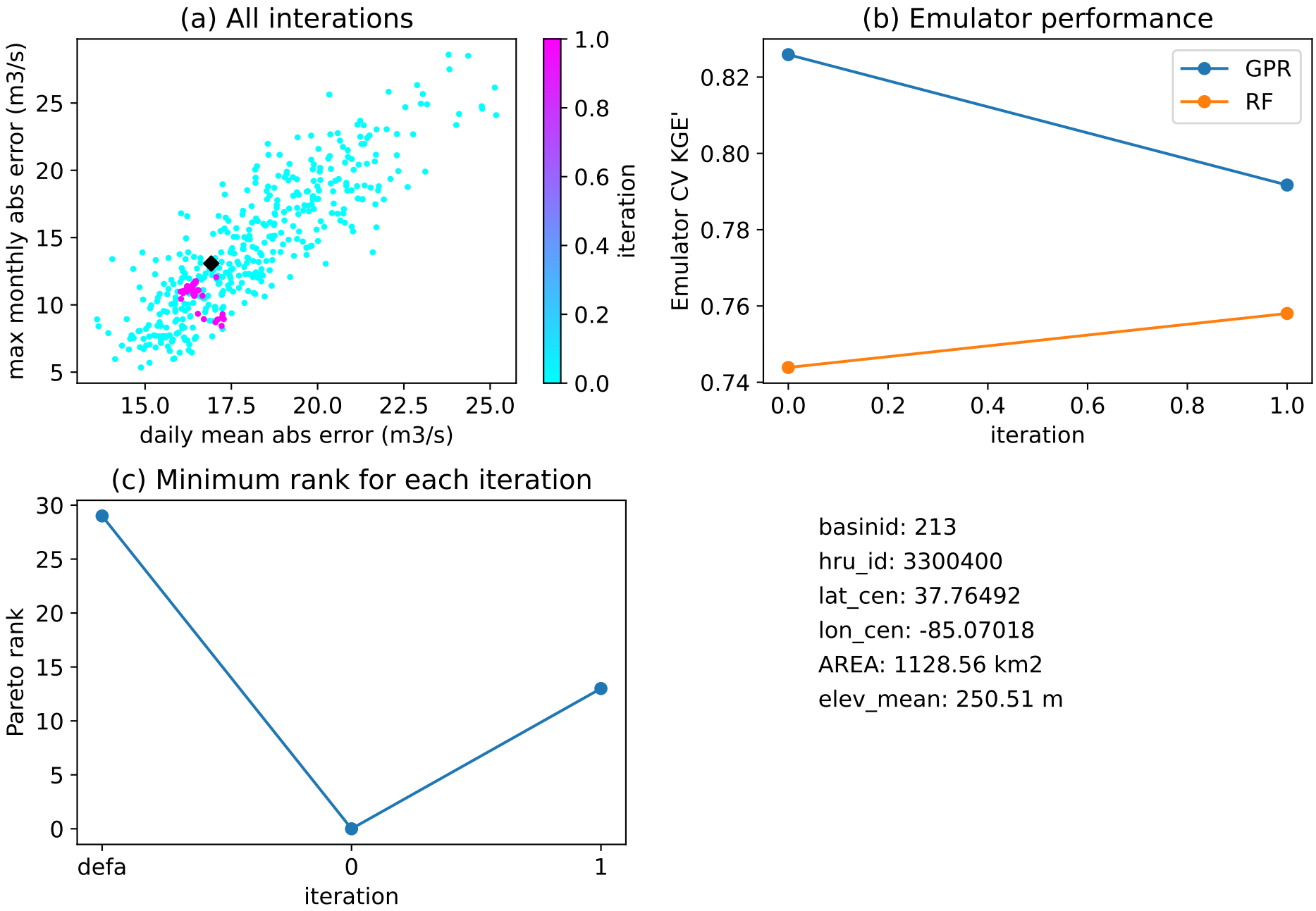
basinid: 211
hru_id: 3285000
lat_cen: 37.50358
lon_cen: -84.59942
AREA: 823.30 km2
elev_mean: 312.34 m

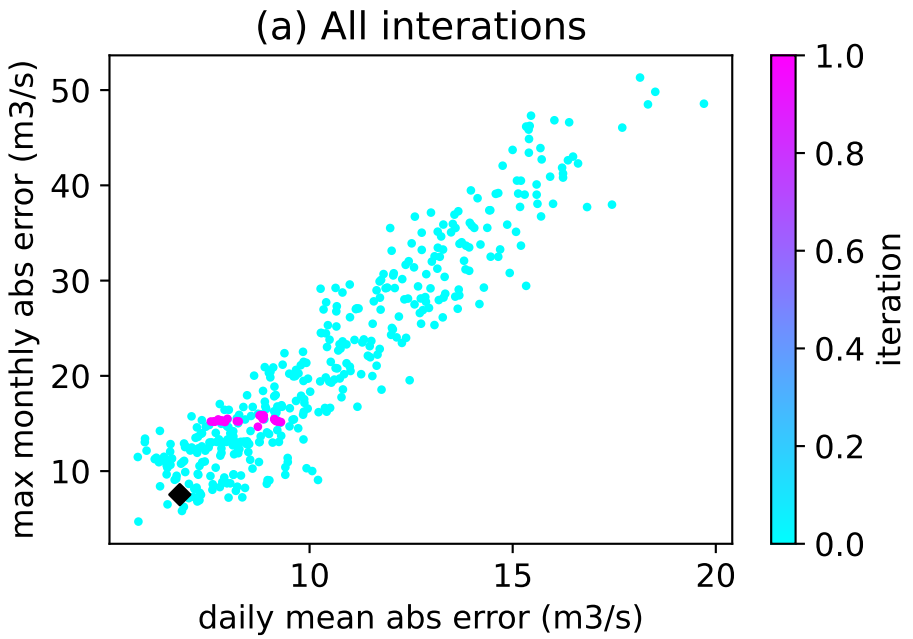


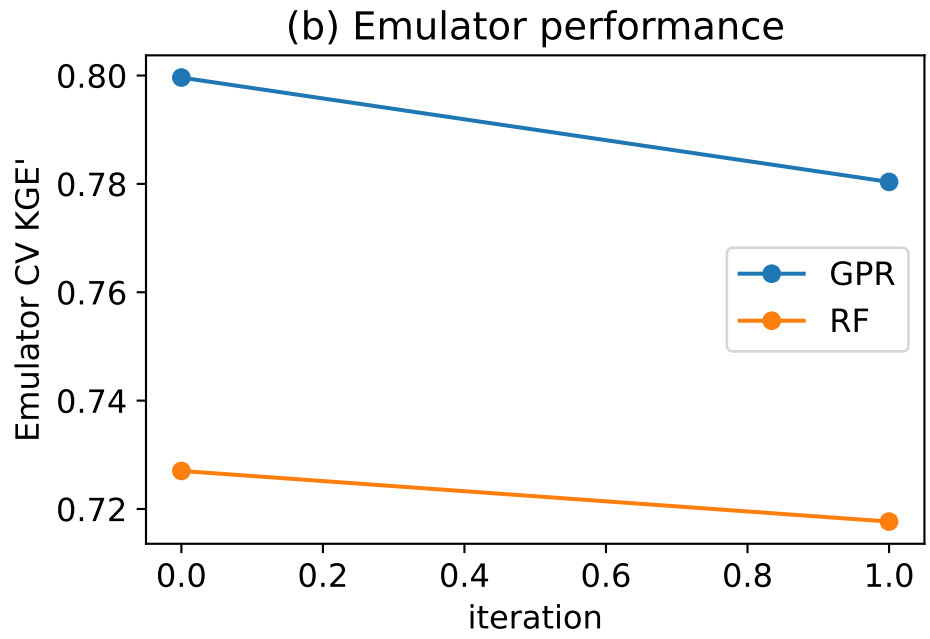


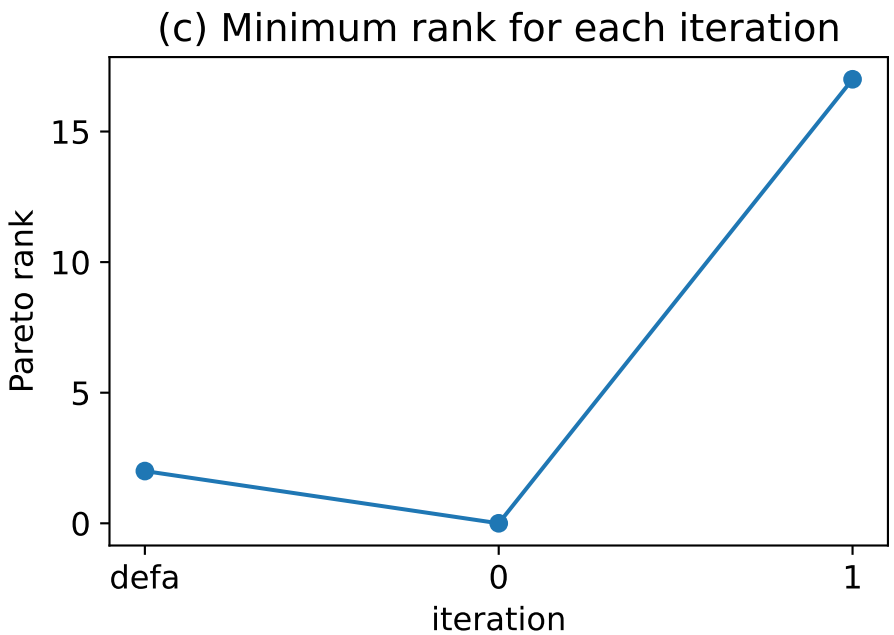


basinid: 212
hru_id: 3291780
lat_cen: 38.93342
lon_cen: -85.28097
AREA: 71.52 km2
elev_mean: 262.85 m

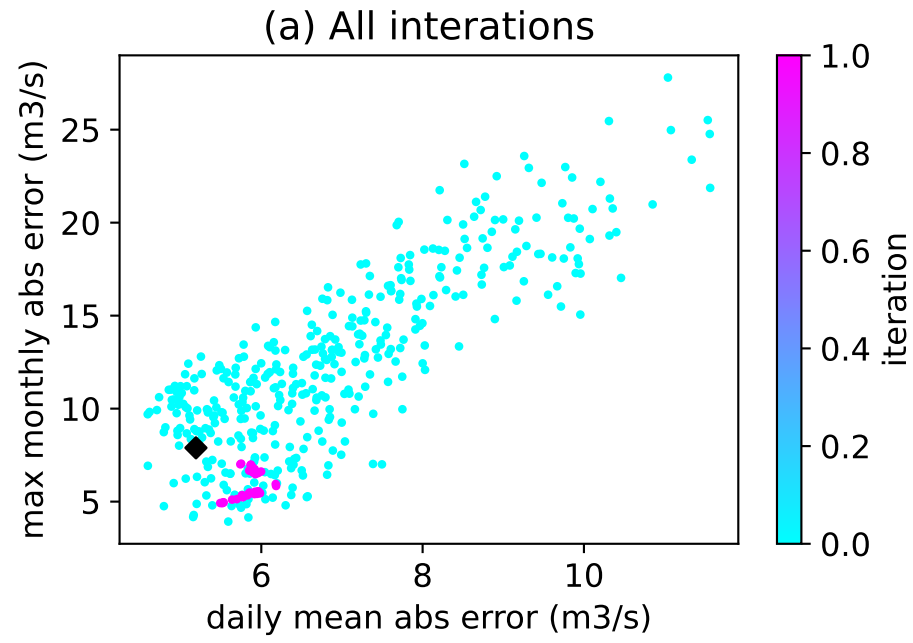

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 213
hru_id: 3300400
lat_cen: 37.76492
lon_cen: -85.07018
AREA: 1128.56 km2
elev_mean: 250.51 m

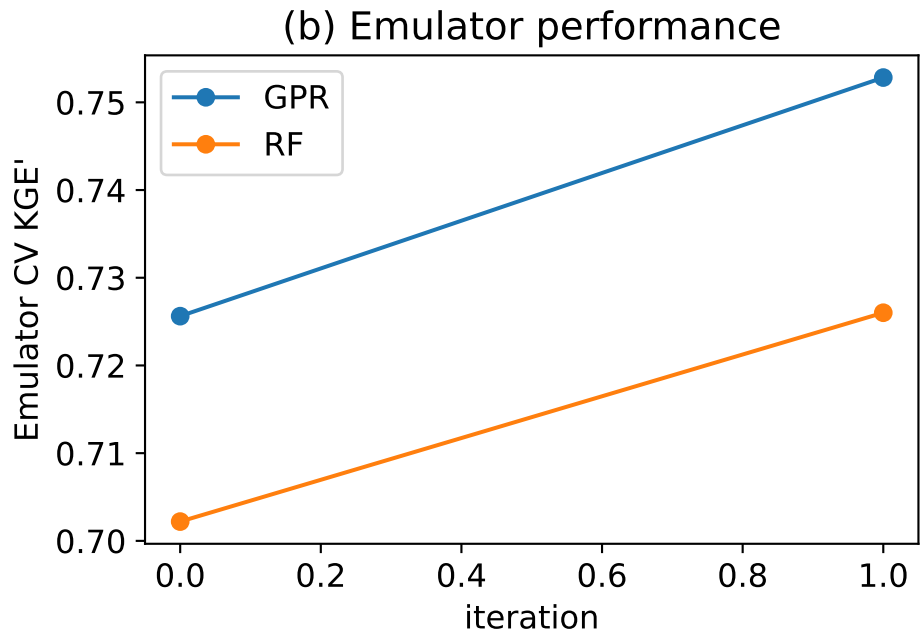


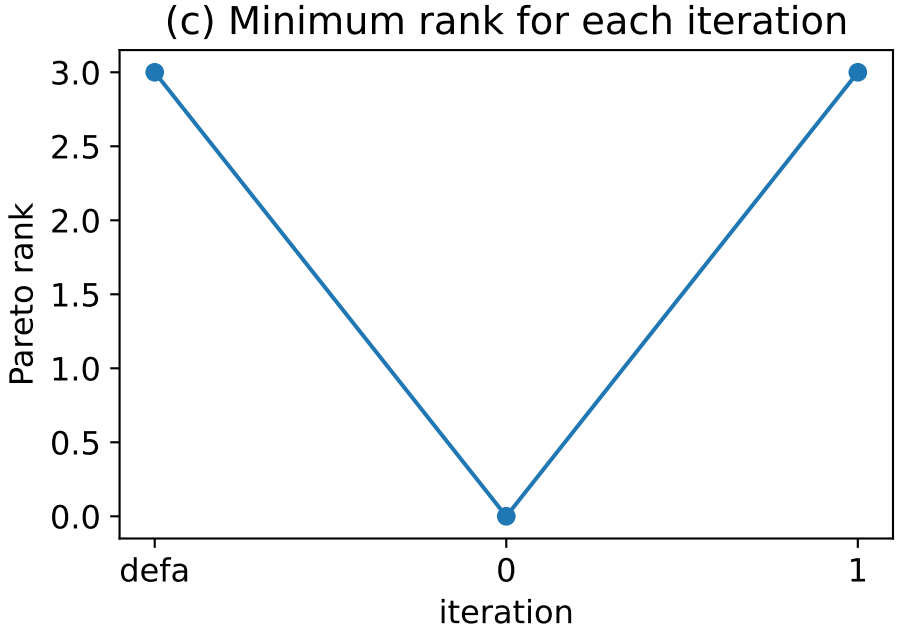




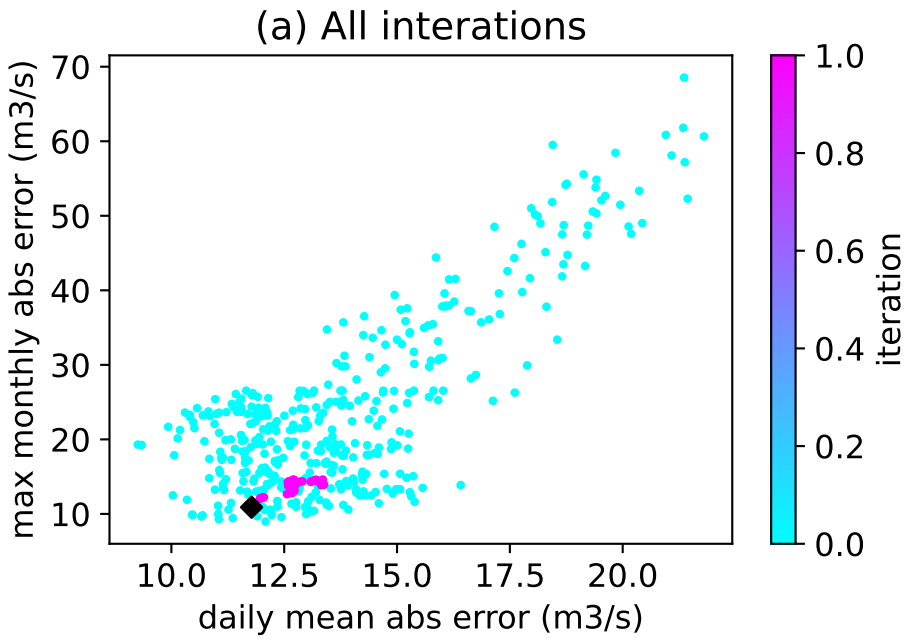
basinid: 214
hru_id: 3338780
lat_cen: 40.4083
lon_cen: -87.57334
AREA: 691.78 km2
elev_mean: 218.85 m

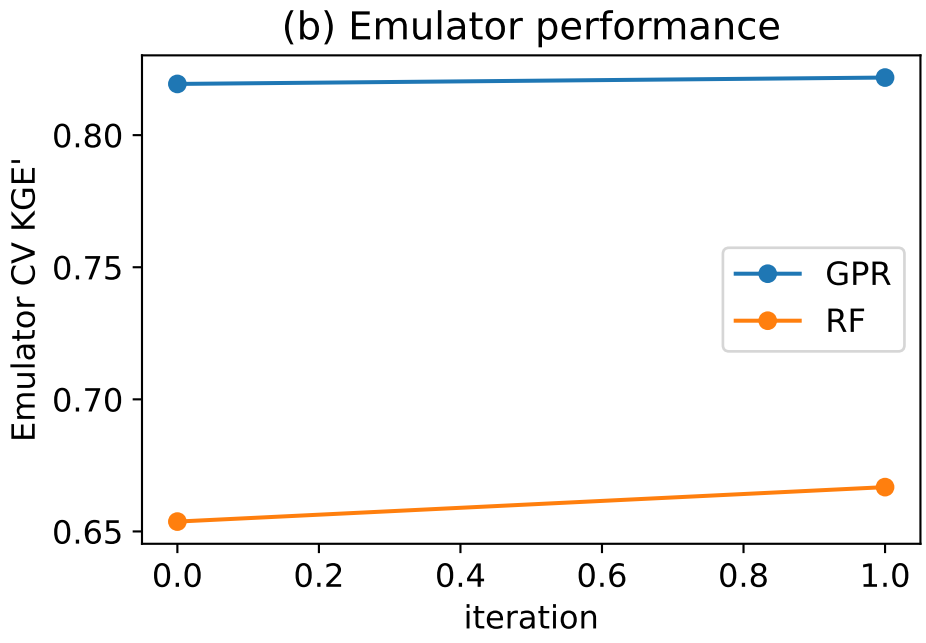


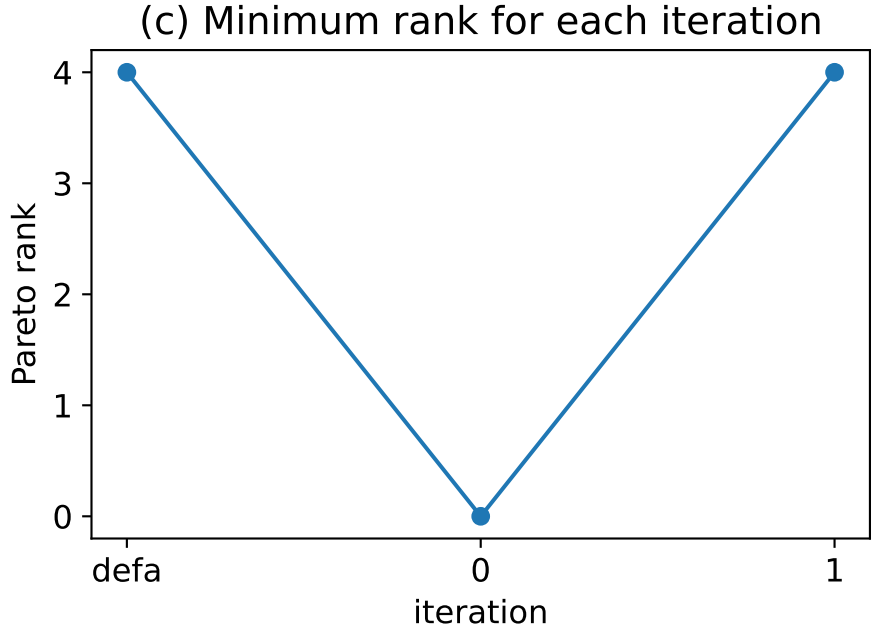




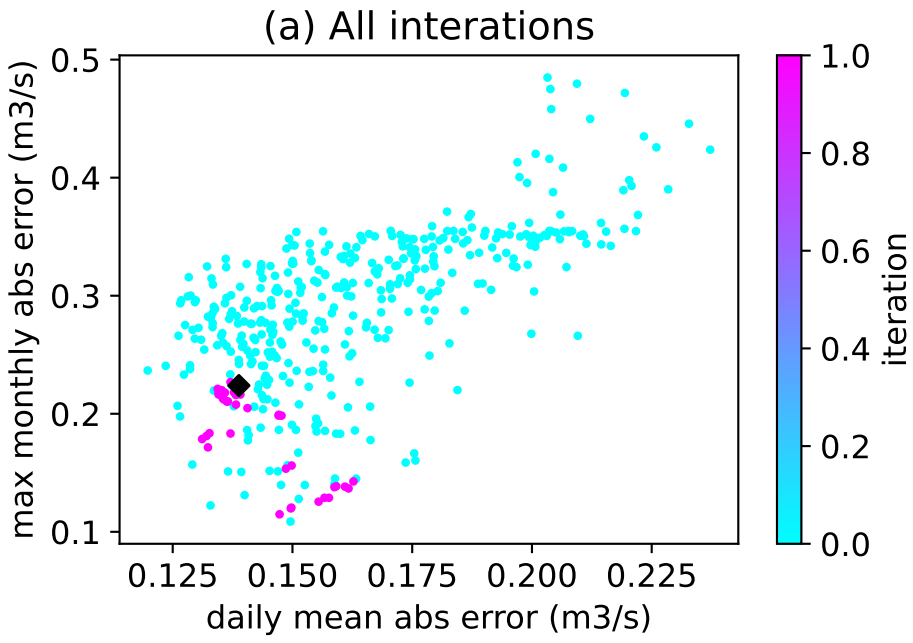
basinid: 215
hru_id: 3340800
lat_cen: 39.9127
lon_cen: -86.76077
AREA: 363.41 km2
elev_mean: 264.73 m

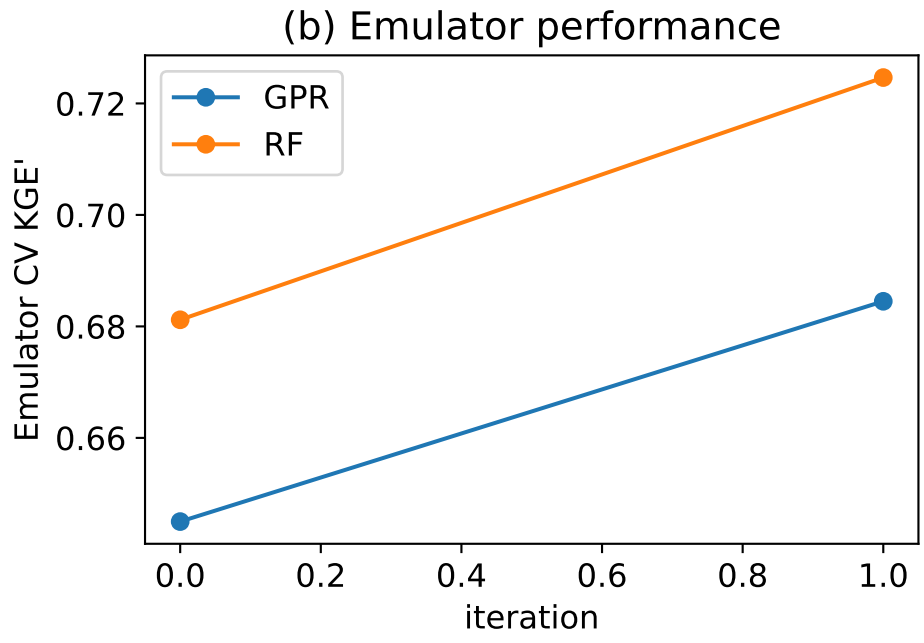


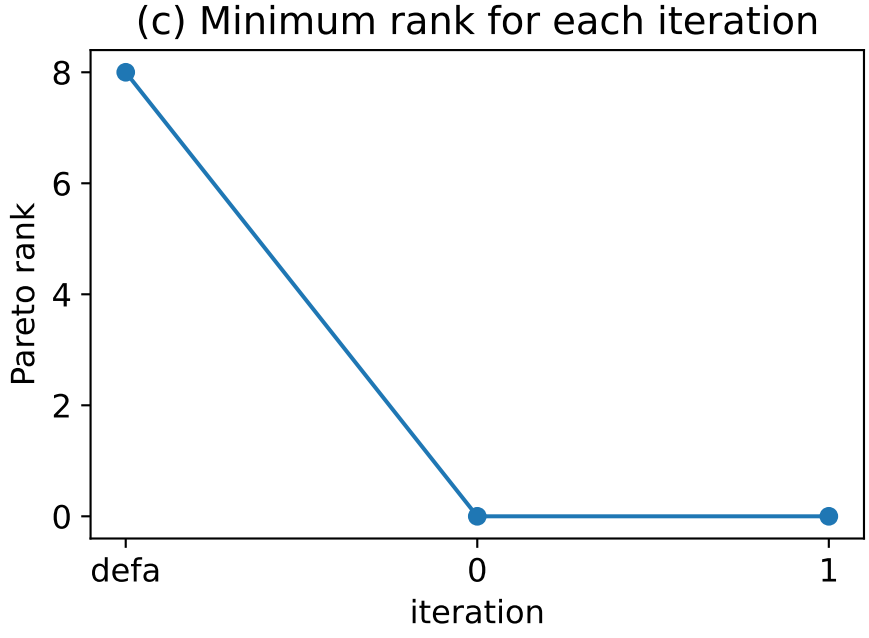




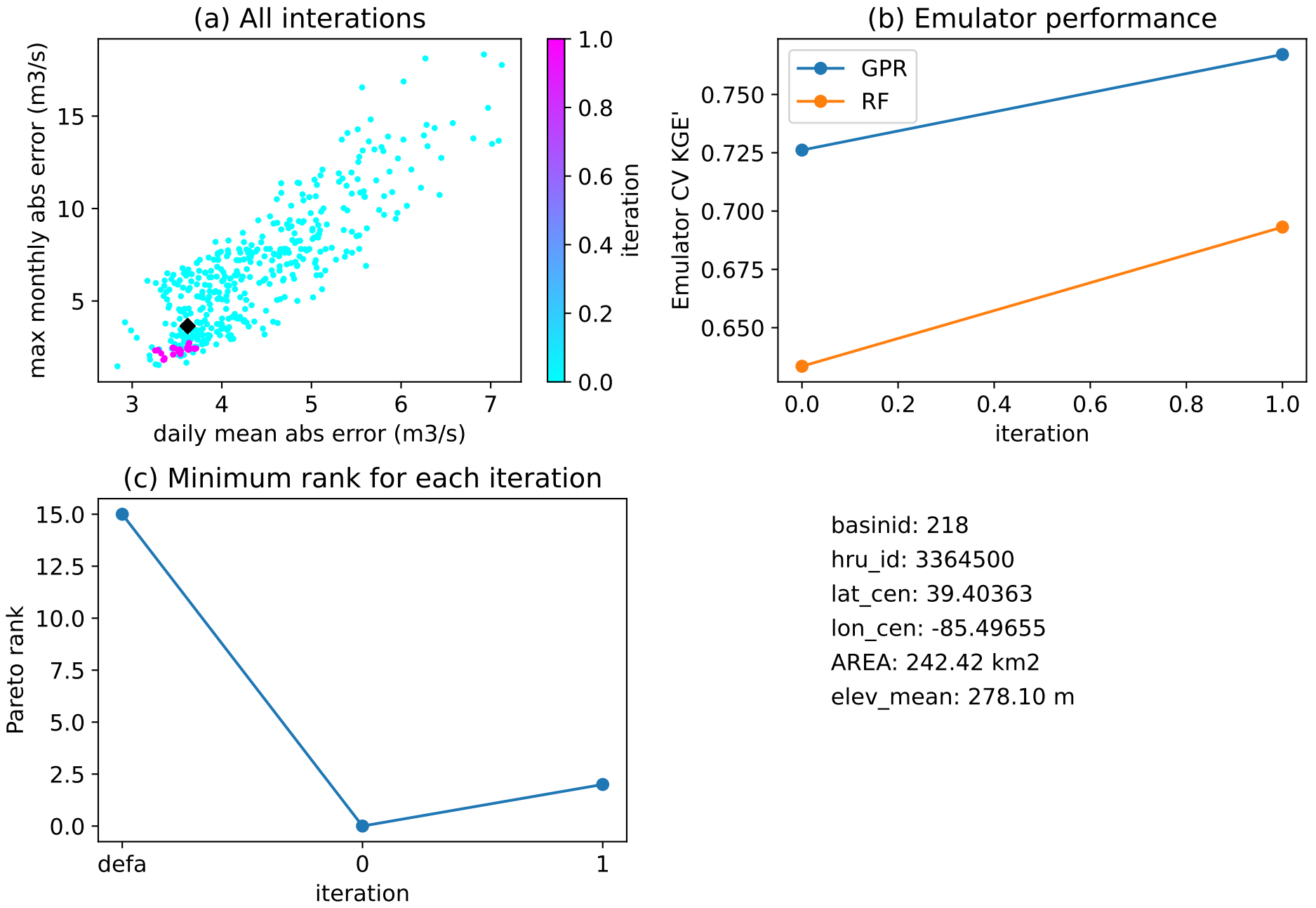
basinid: 216
hru_id: 3346000
lat_cen: 39.26438
lon_cen: -87.91749
AREA: 828.75 km2
elev_mean: 182.03 m

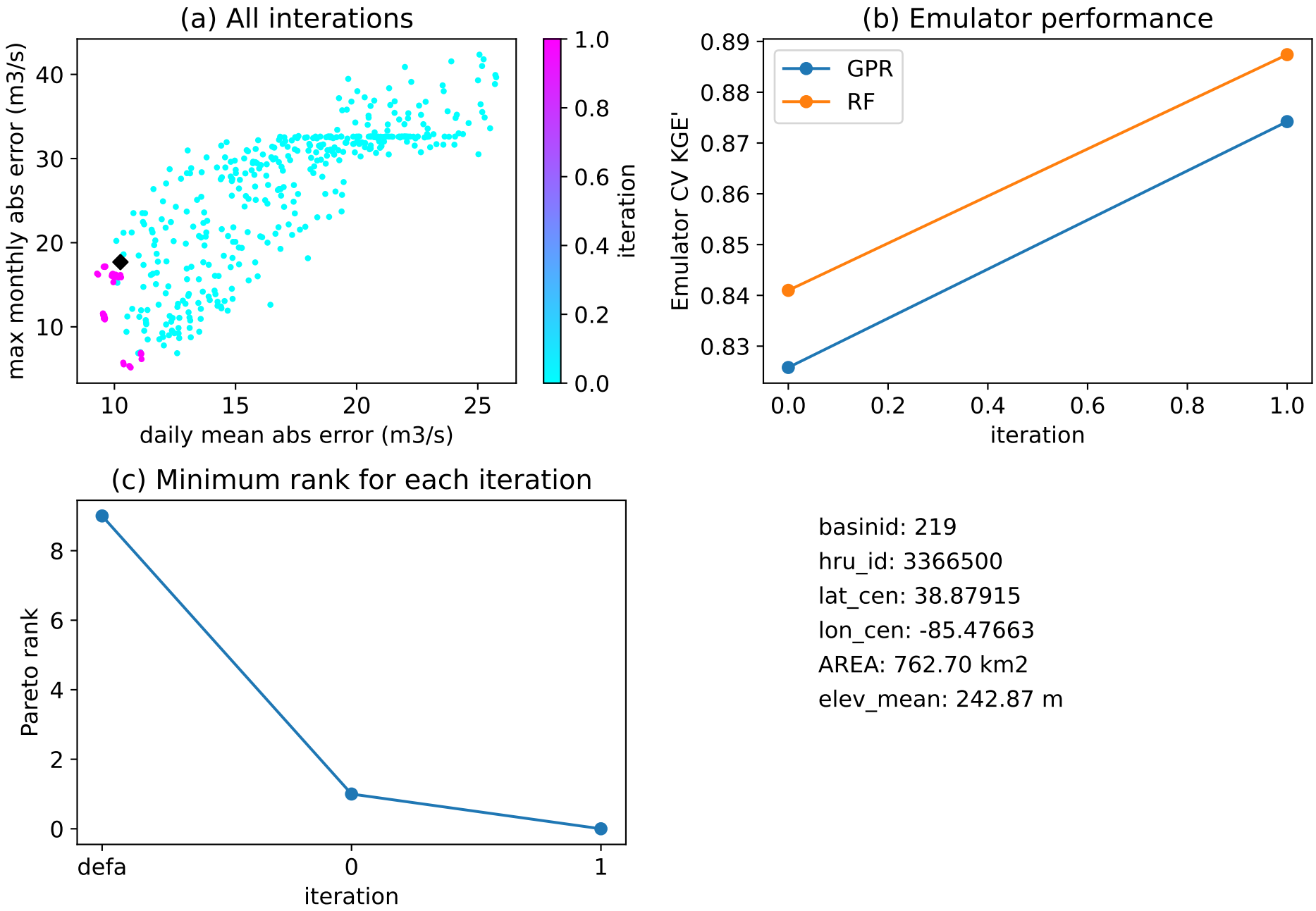


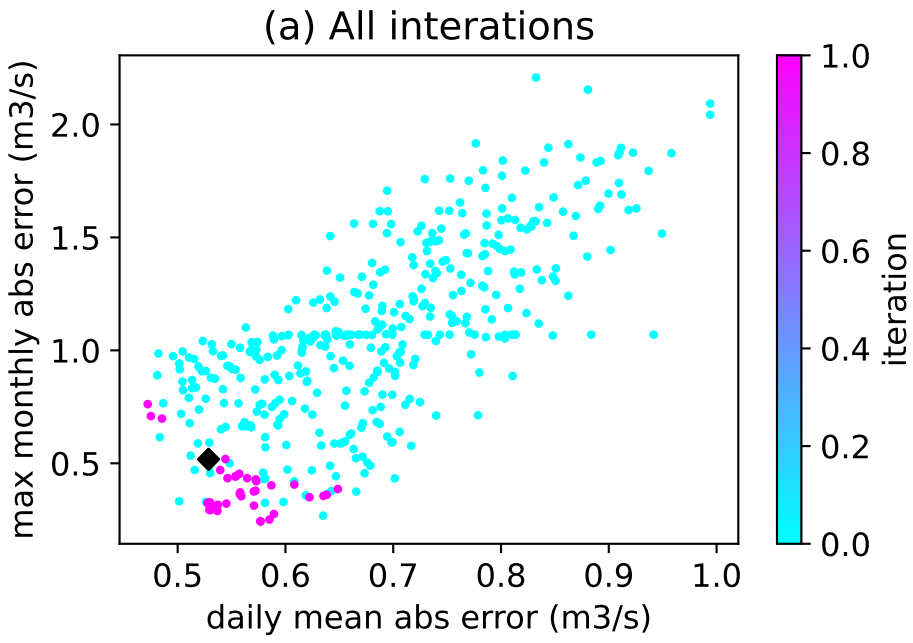


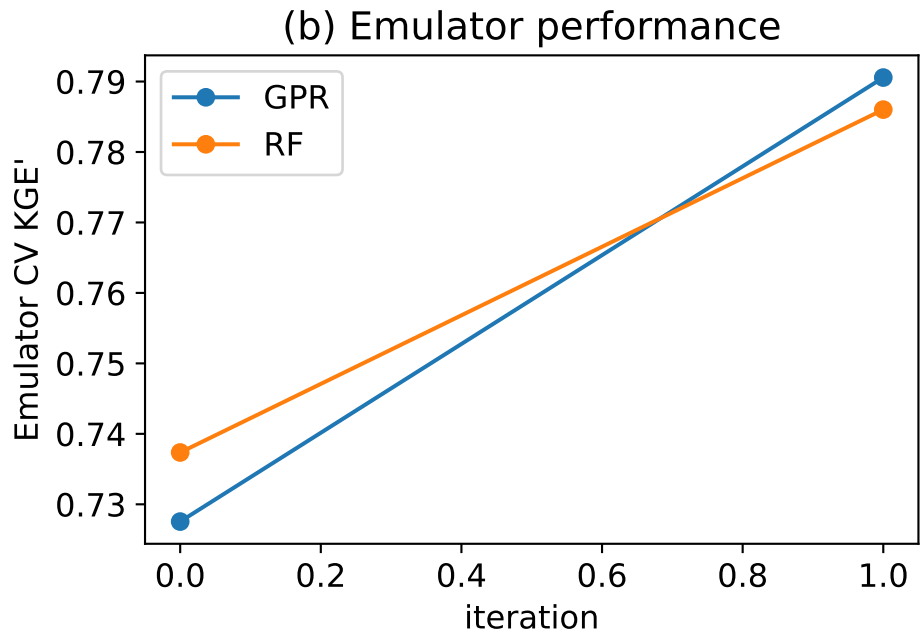


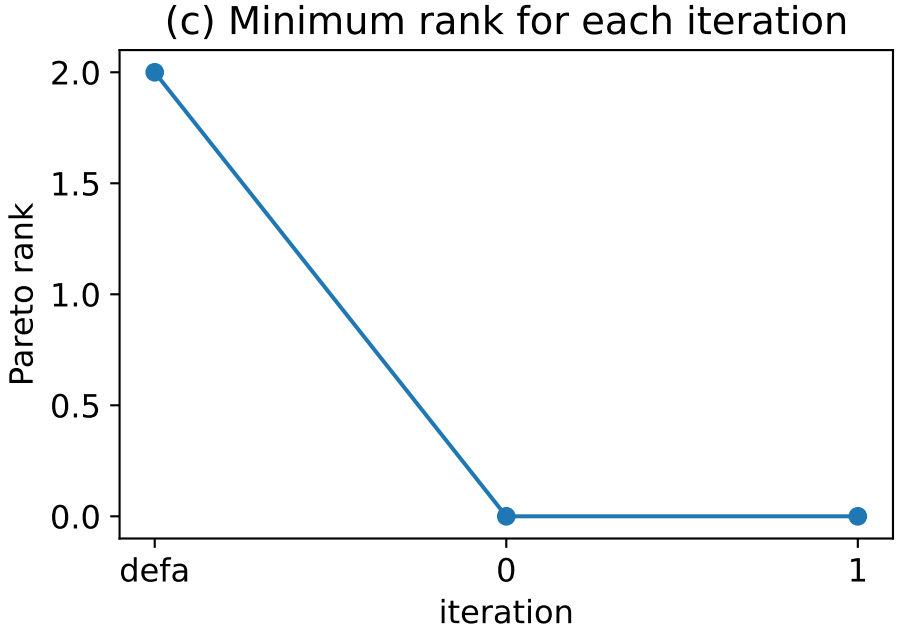
basinid: 217
hru_id: 3357350
lat_cen: 39.76604
lon_cen: -86.73865
AREA: 26.11 km2
elev_mean: 262.12 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 218
hru_id: 3364500
lat_cen: 39.40363
lon_cen: -85.49655
AREA: 242.42 km2
elev_mean: 278.10 m

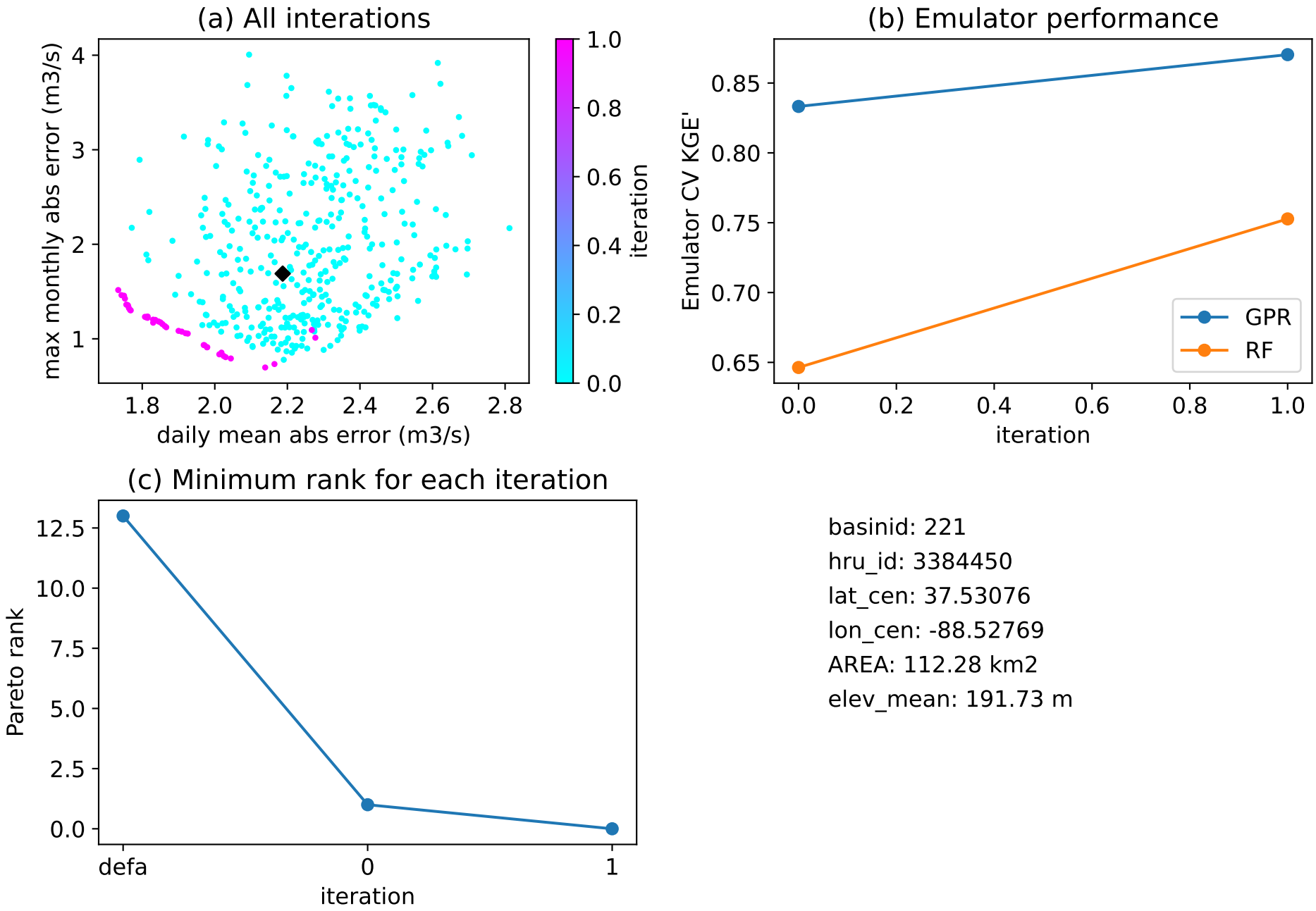

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 219
hru_id: 3366500
lat_cen: 38.87915
lon_cen: -85.47663
AREA: 762.70 km2
elev_mean: 242.87 m

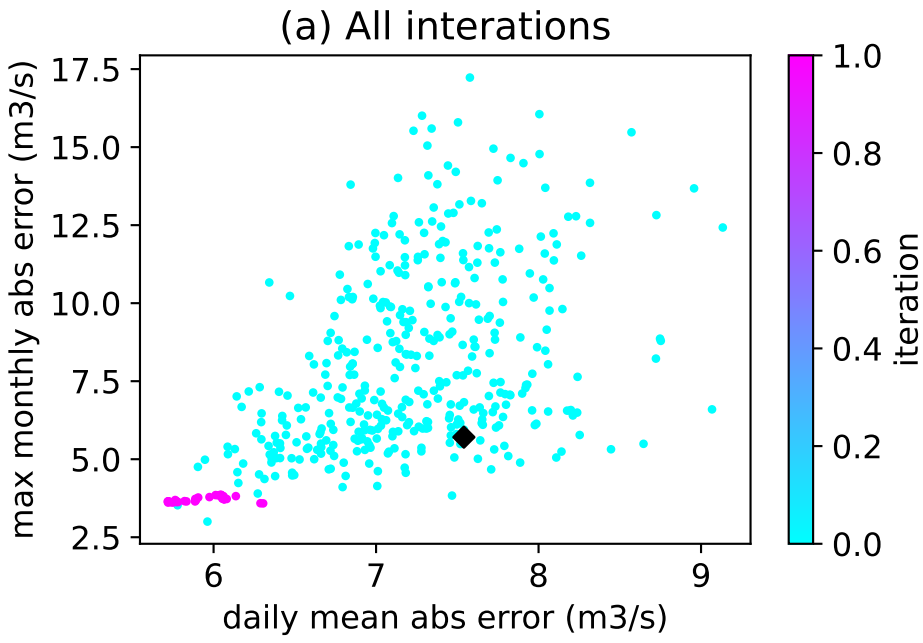


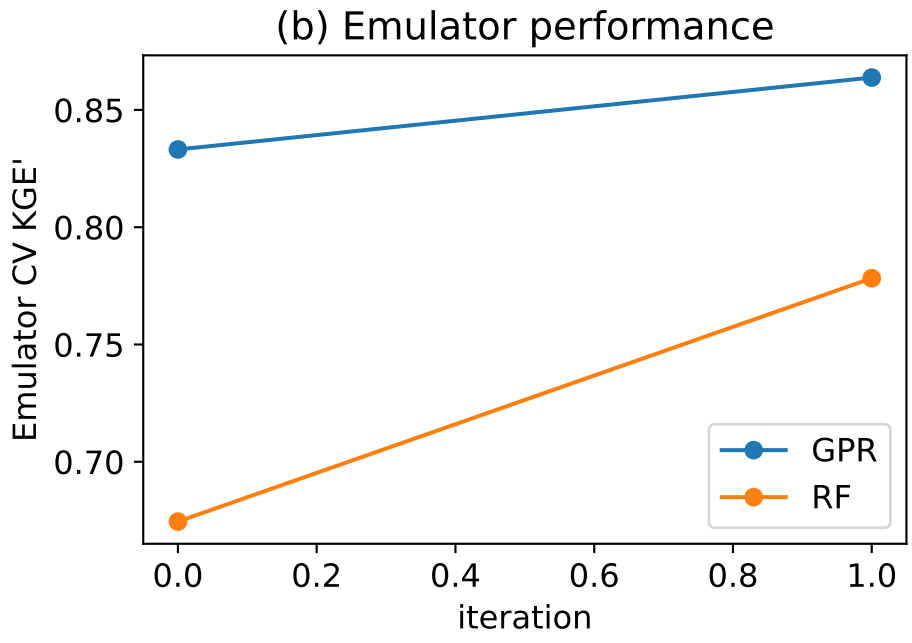


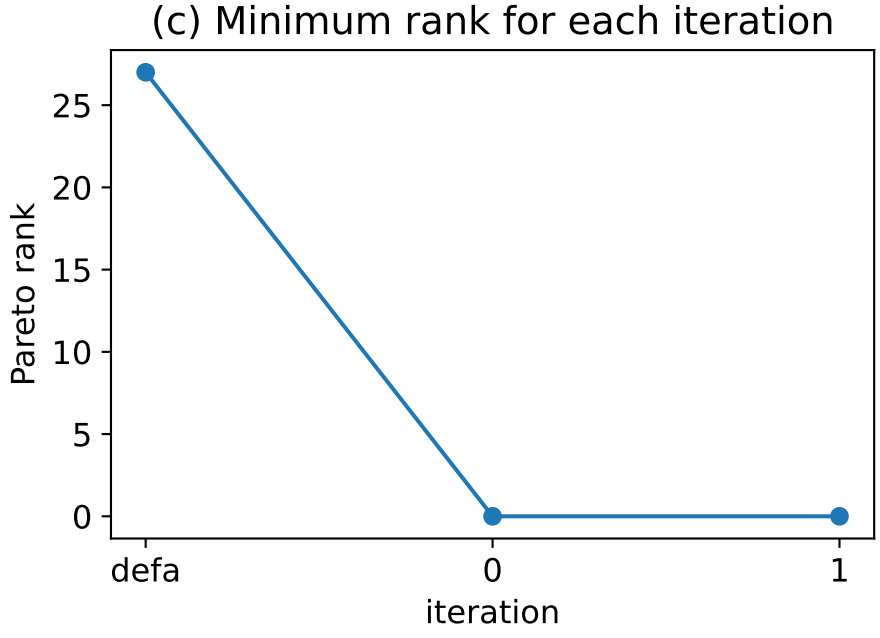


basinid: 220
hru_id: 3368000
lat_cen: 39.09304
lon_cen: -85.44026
AREA: 32.49 km2
elev_mean: 260.09 m

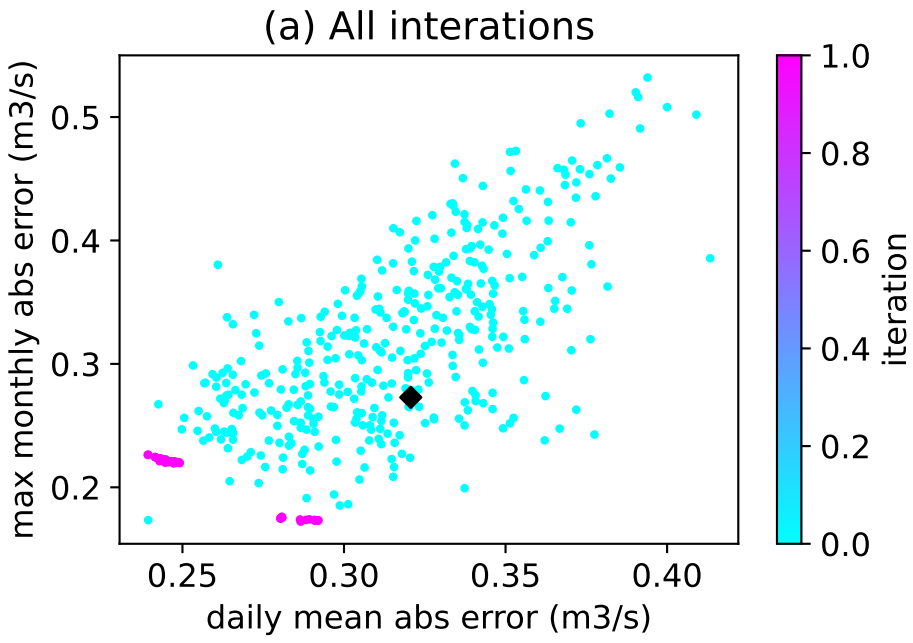

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 221
hru_id: 3384450
lat_cen: 37.53076
lon_cen: -88.52769
AREA: 112.28 km2
elev_mean: 191.73 m

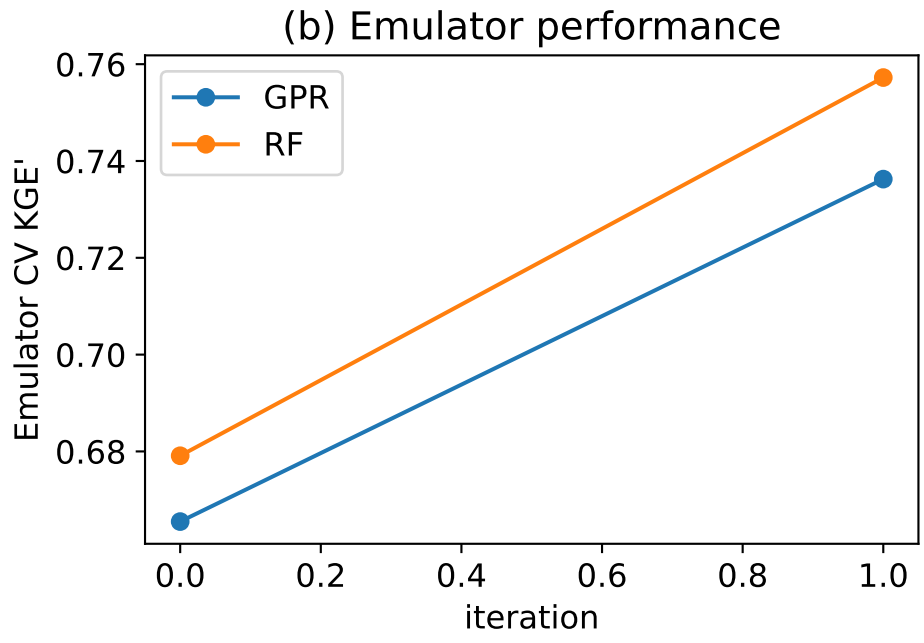


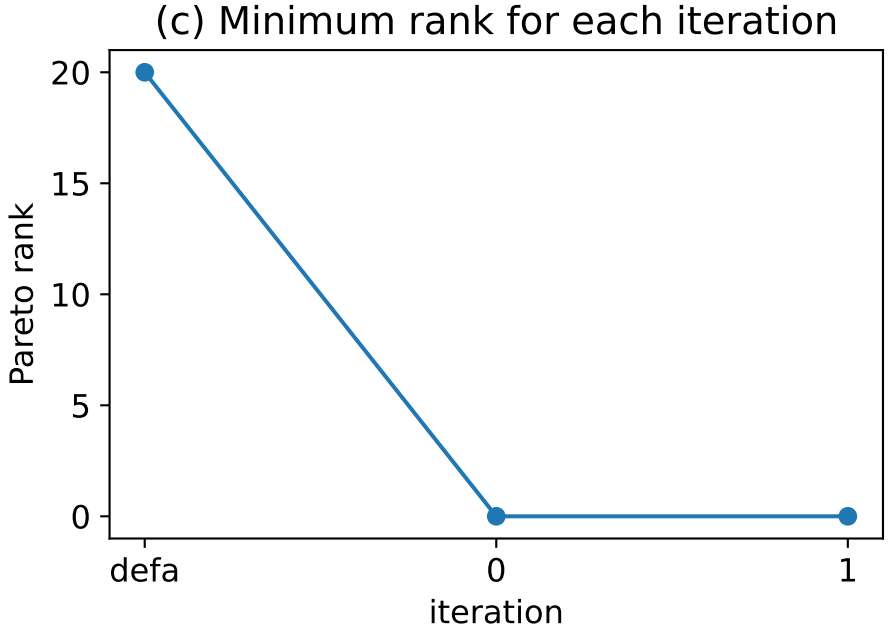




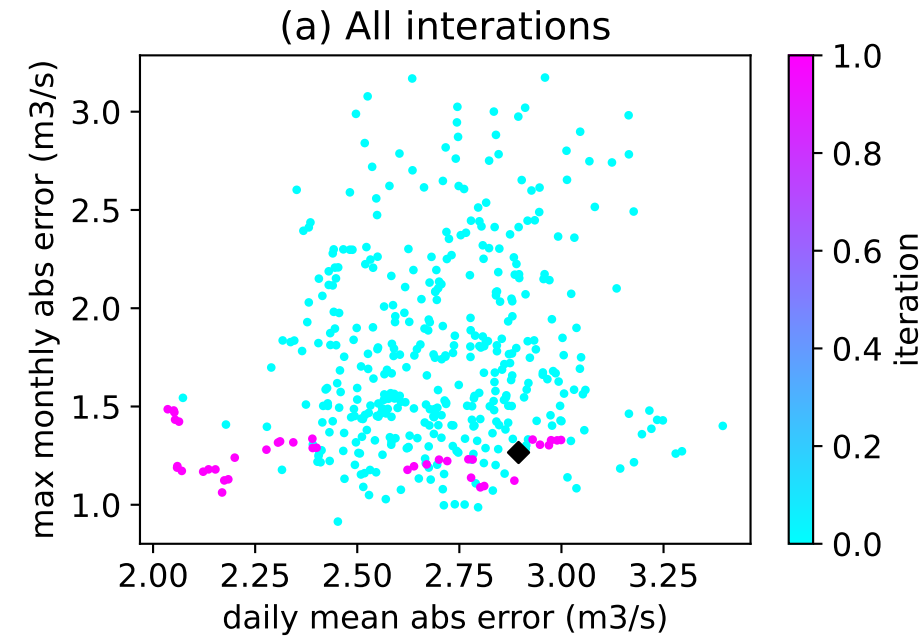
basinid: 222
hru_id: 3439000
lat_cen: 35.20181
lon_cen: -82.89101
AREA: 178.19 km2
elev_mean: 976.18 m

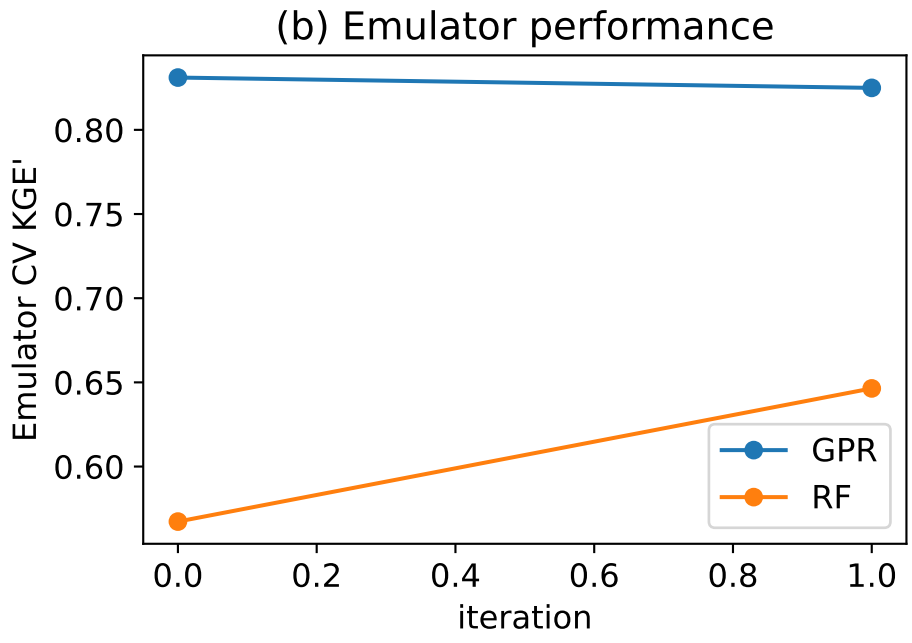


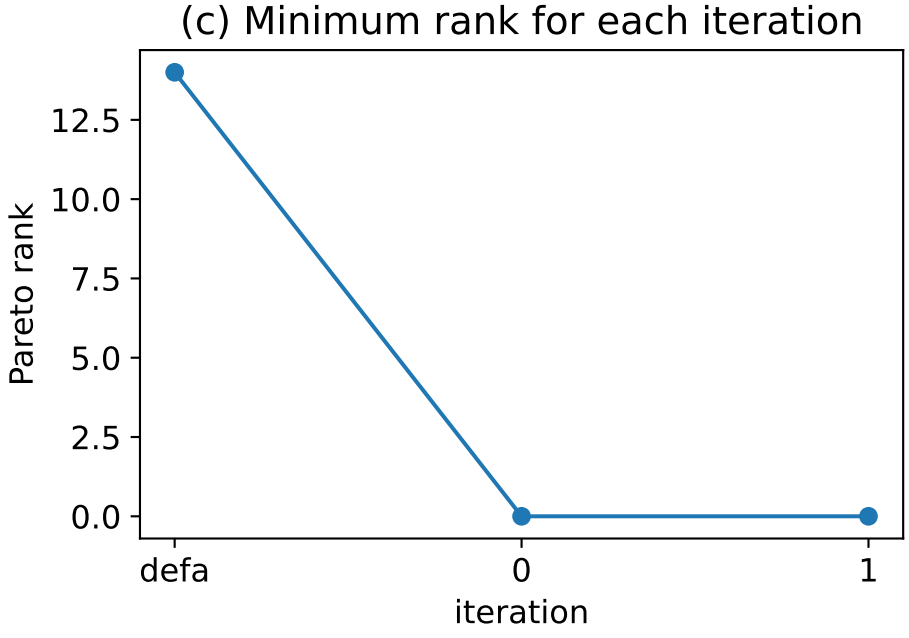




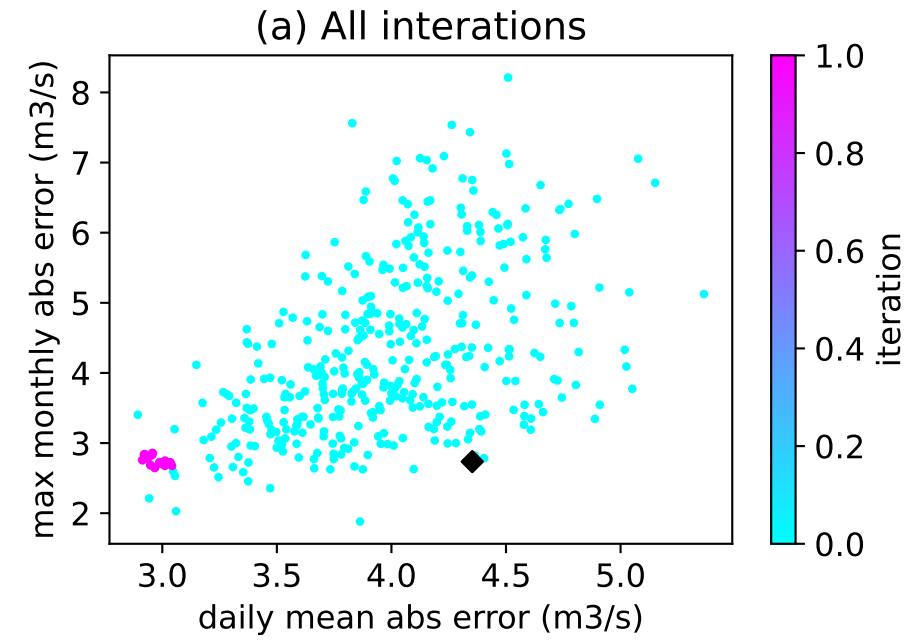
basinid: 223
hru_id: 3450000
lat_cen: 35.67619
lon_cen: -82.39731
AREA: 14.13 km2
elev_mean: 1215.33 m

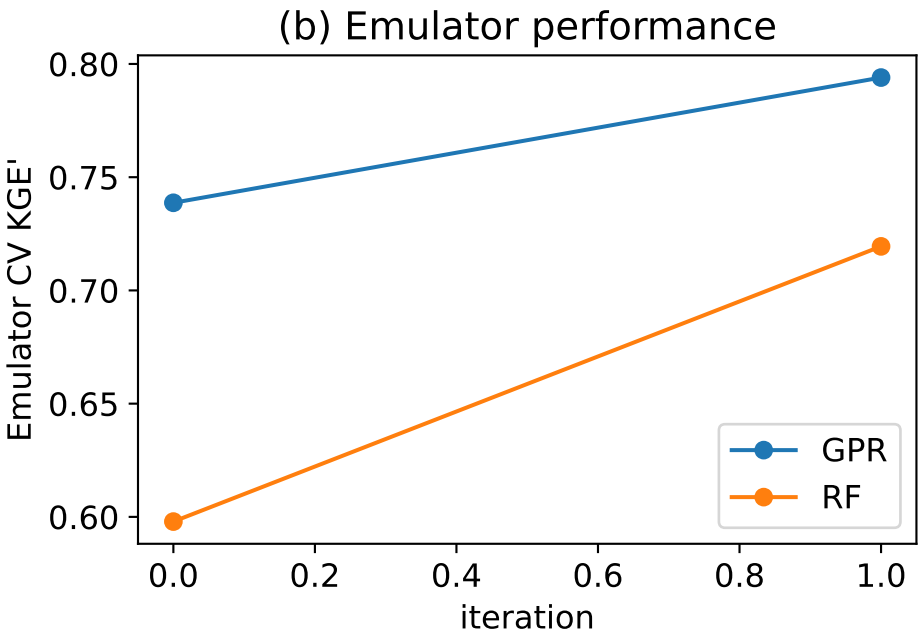


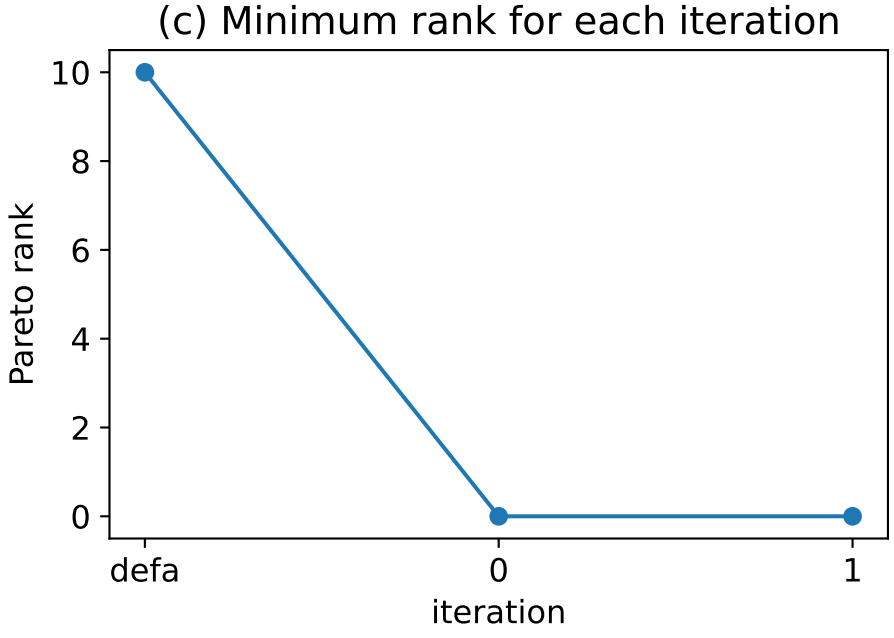




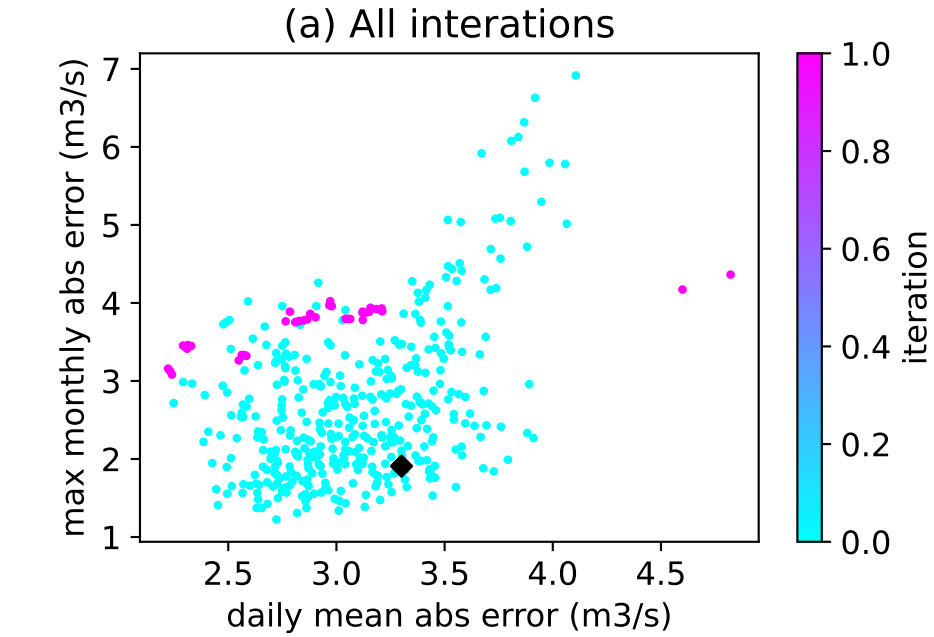
basinid: 224
hru_id: 3455500
lat_cen: 35.34507
lon_cen: -82.93173
AREA: 71.47 km2
elev_mean: 1453.99 m

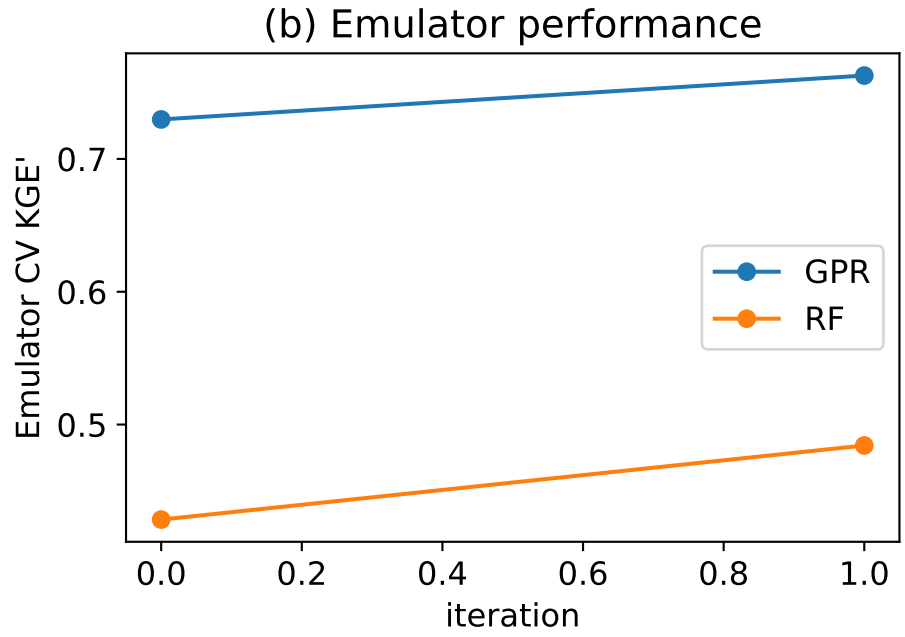


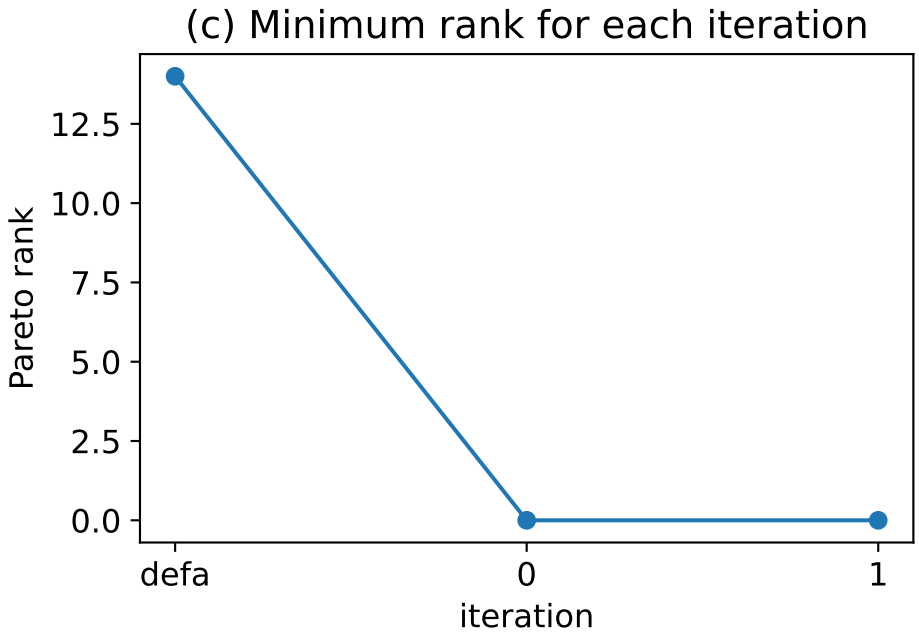




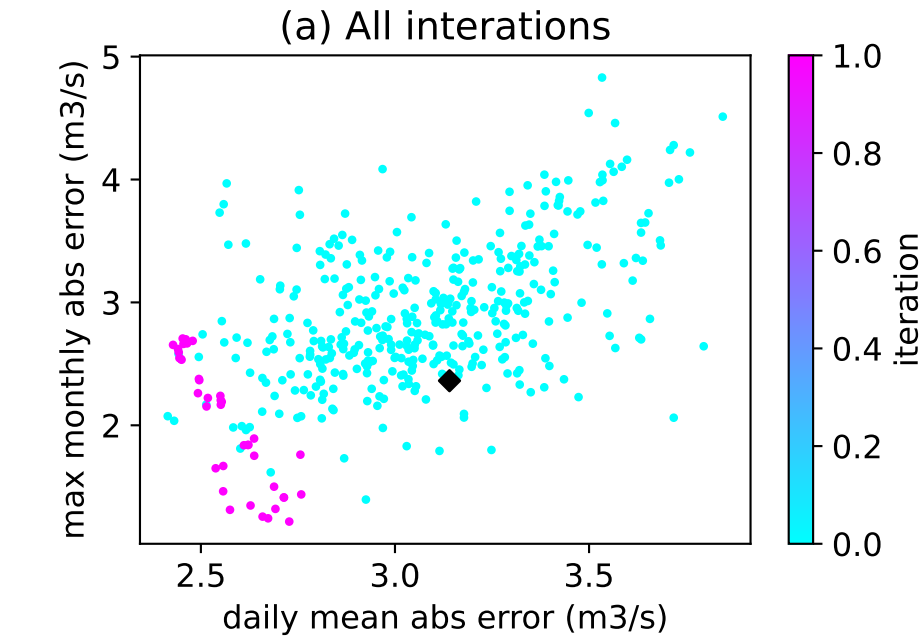
basinid: 225
hru_id: 3456500
lat_cen: 35.4052
lon_cen: -82.82776
AREA: 137.33 km2
elev_mean: 1239.22 m

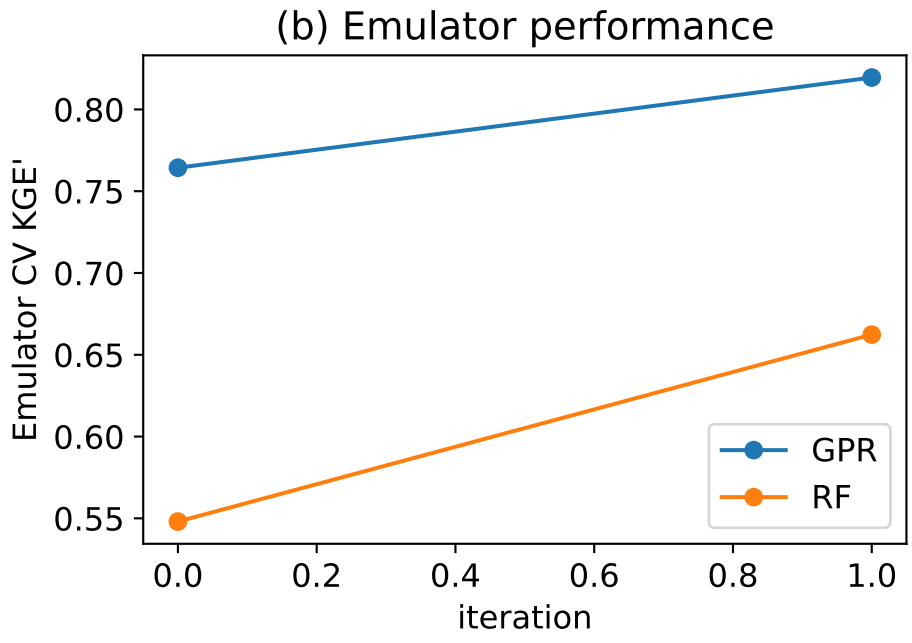


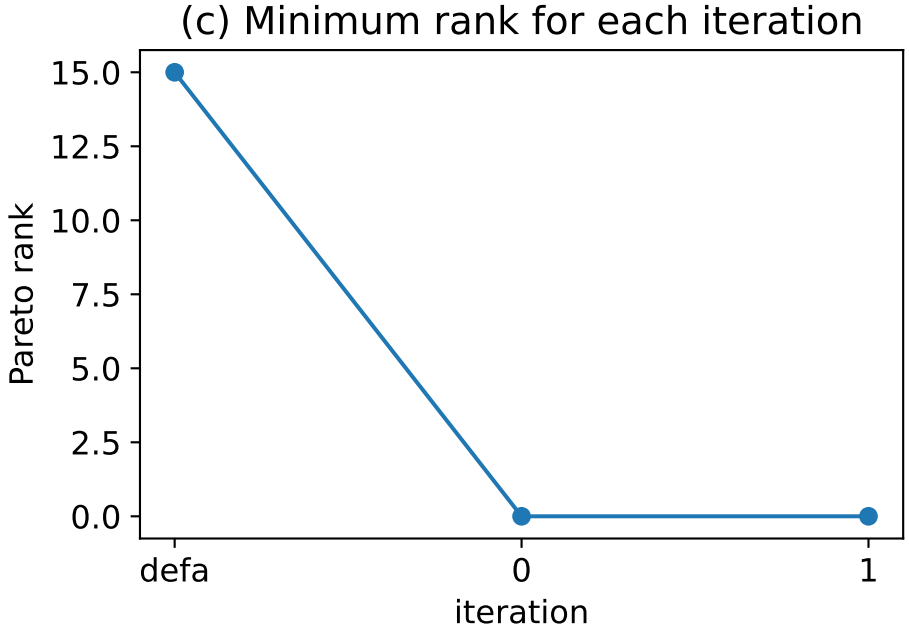




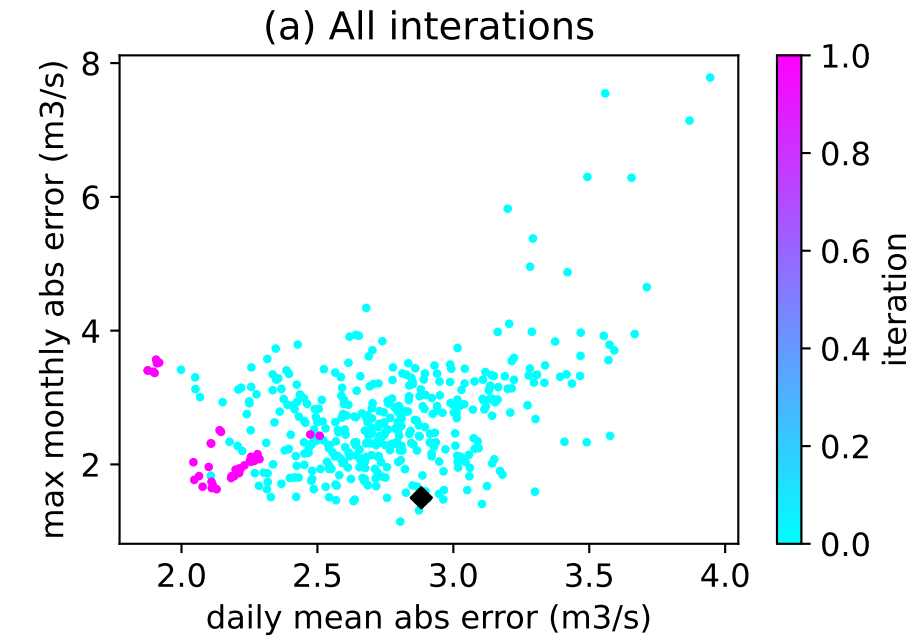
basinid: 226
hru_id: 3460000
lat_cen: 35.61913
lon_cen: -83.12672
AREA: 127.62 km2
elev_mean: 1233.35 m

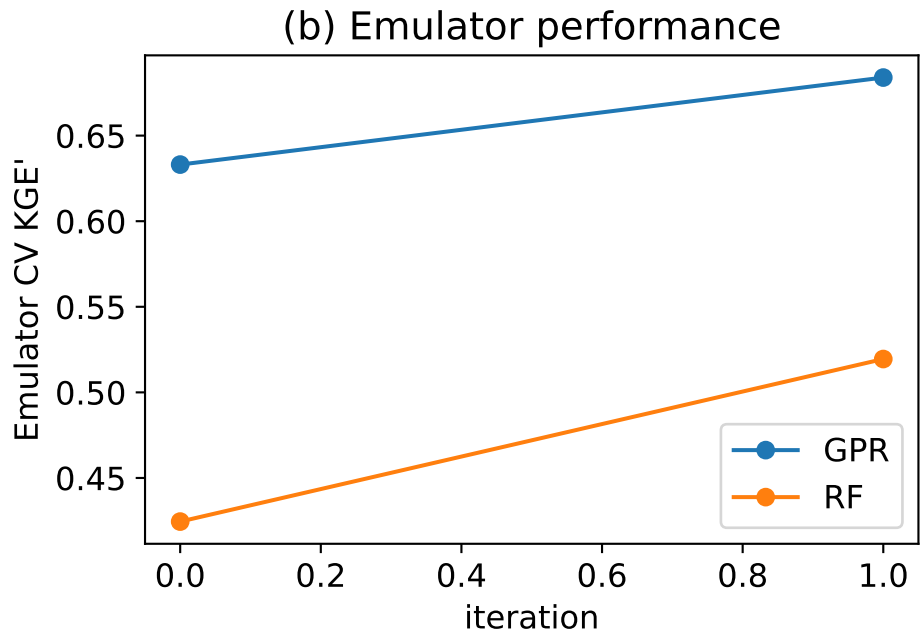


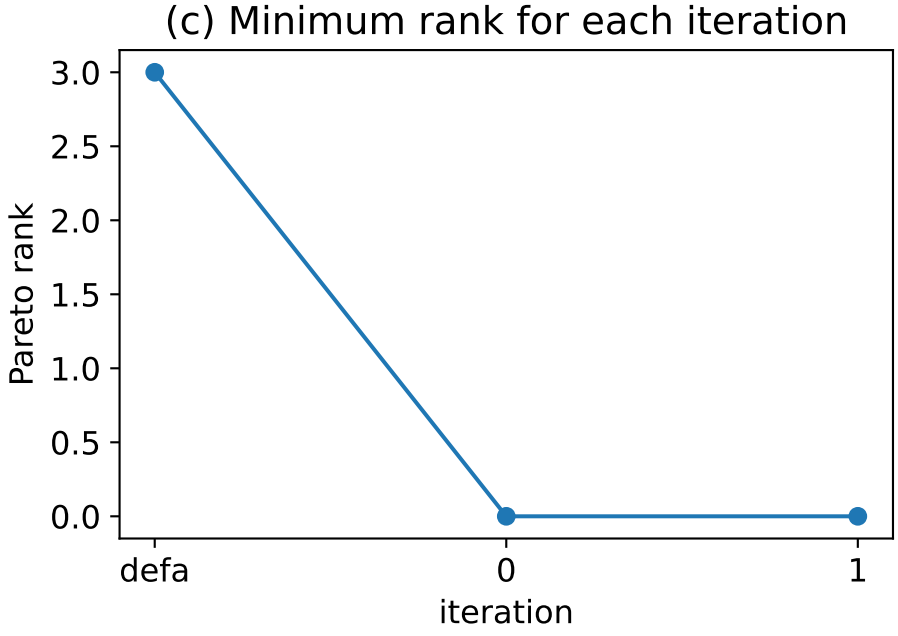




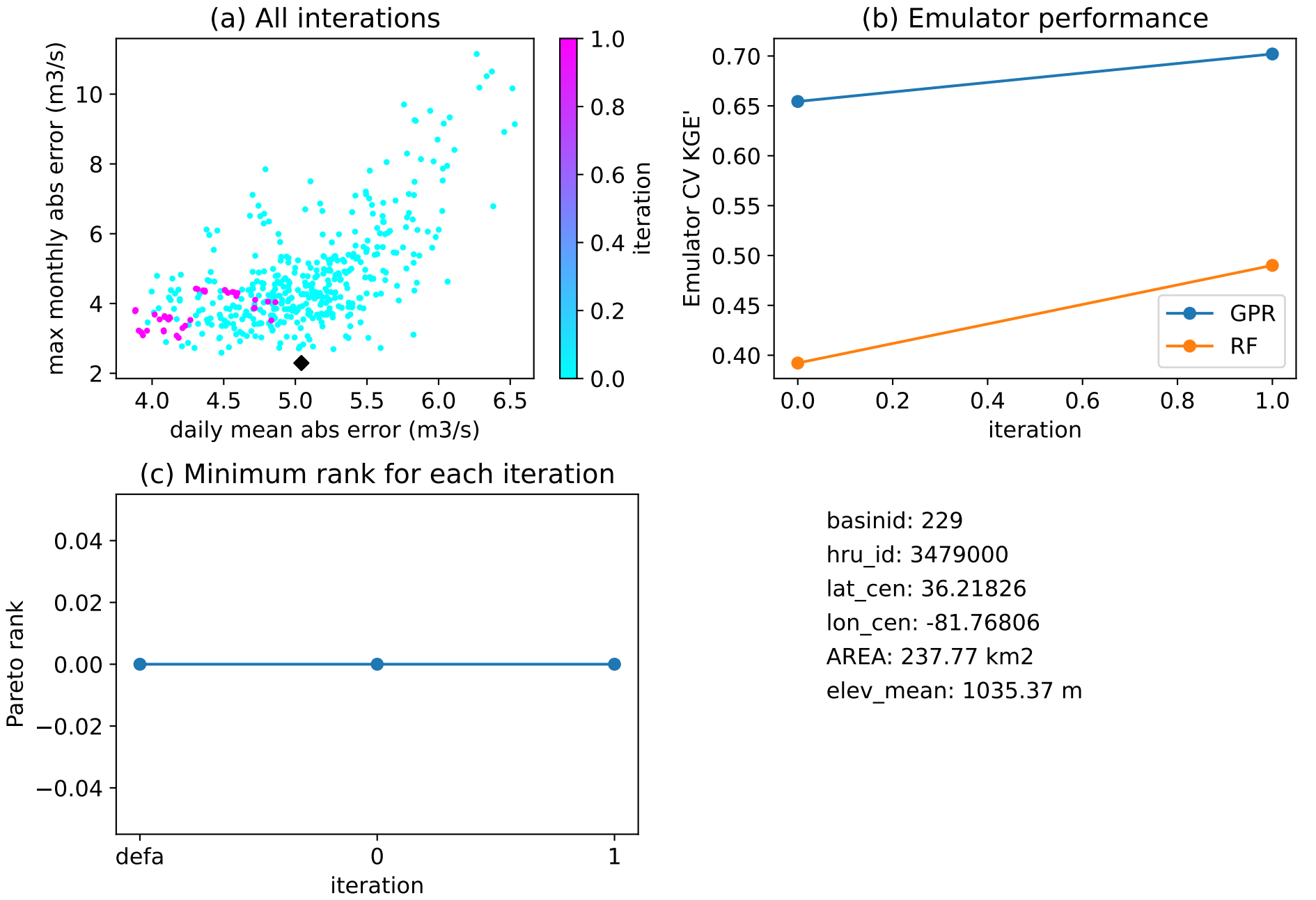
basinid: 227
hru_id: 3463300
lat_cen: 35.77672
lon_cen: -82.22239
AREA: 113.16 km2
elev_mean: 1213.29 m

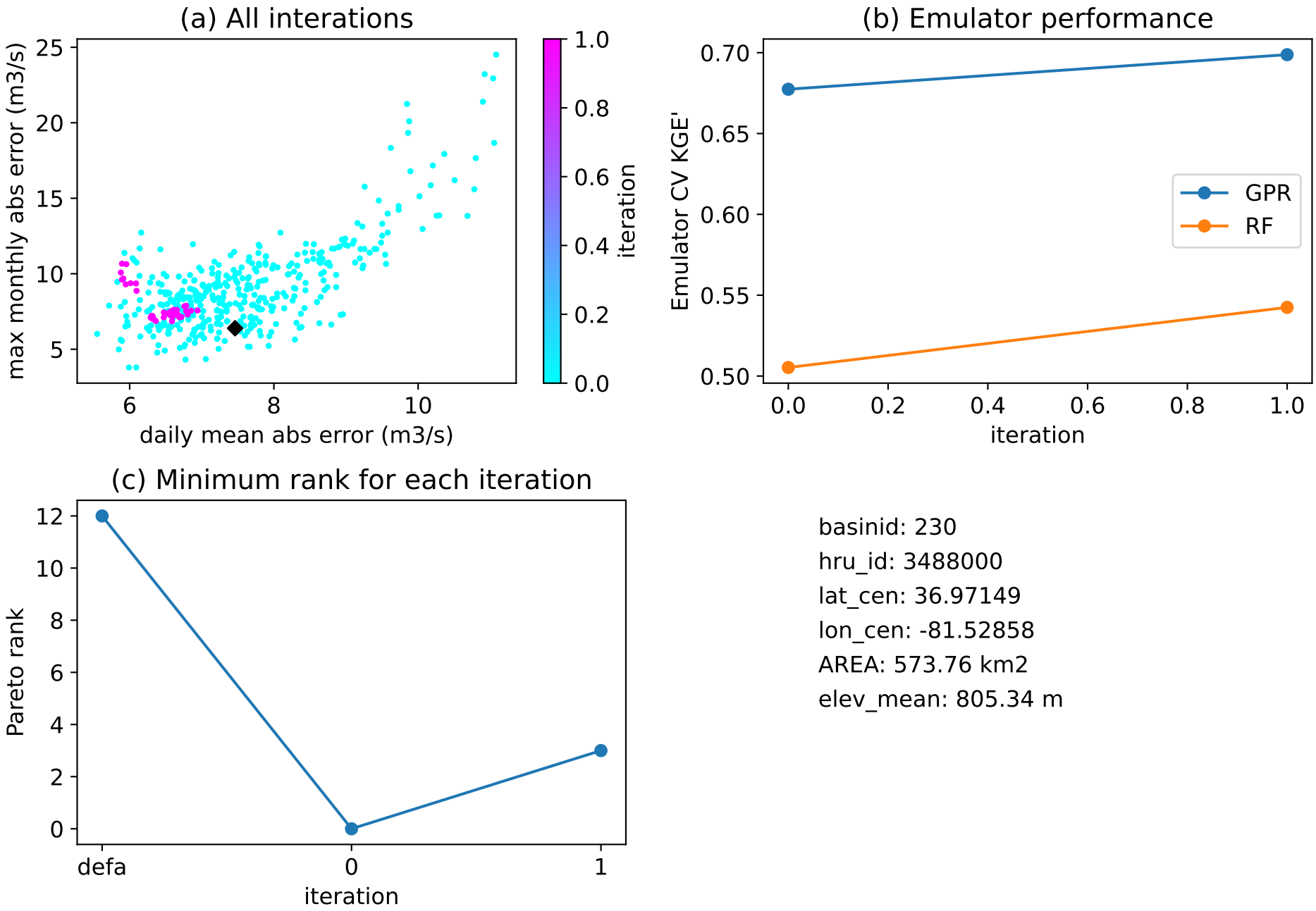


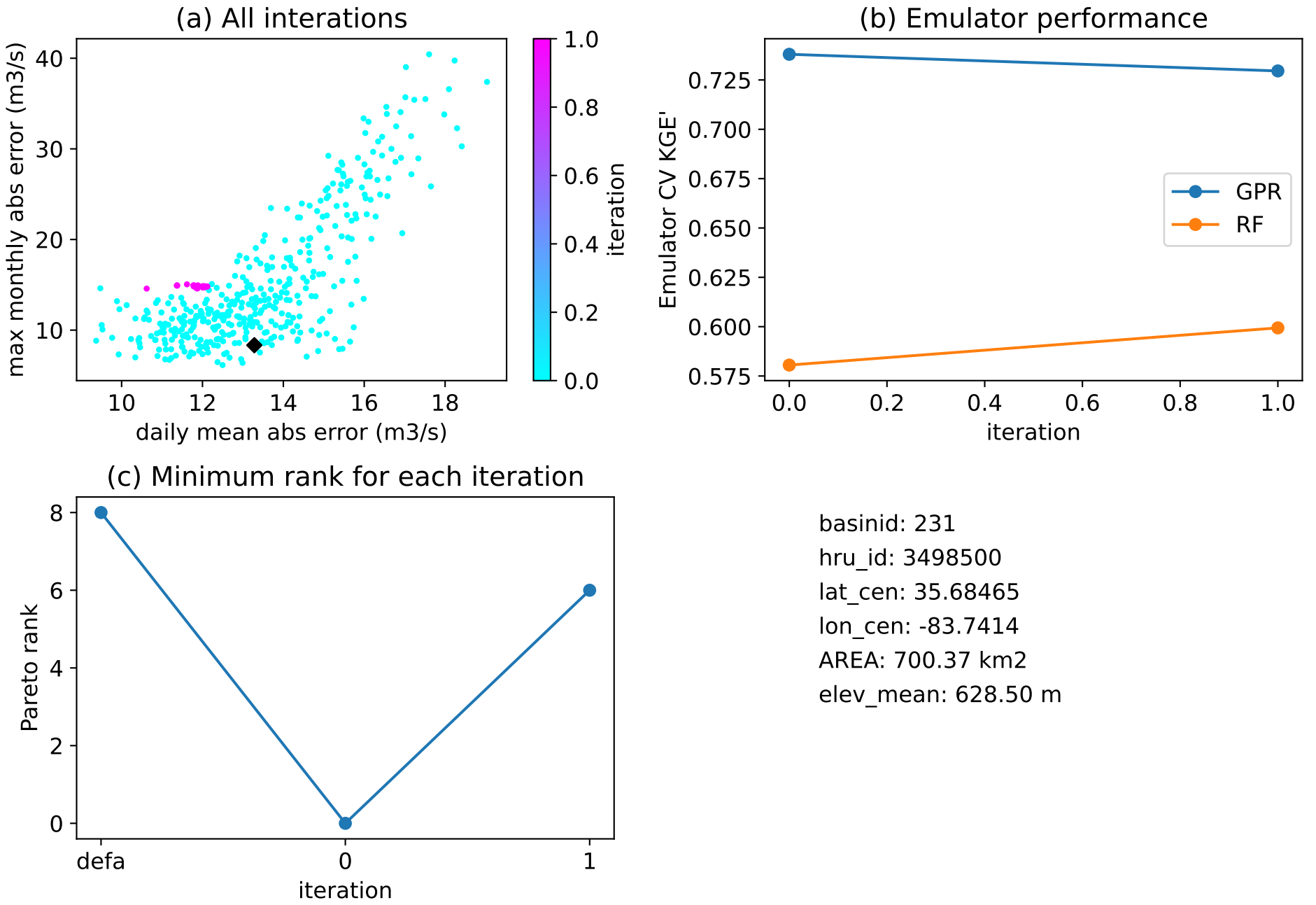


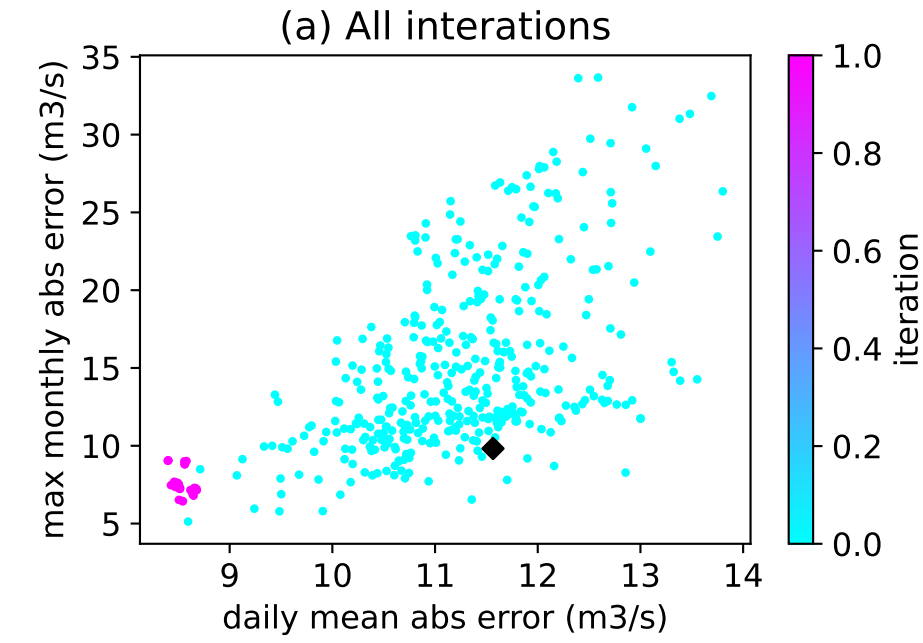


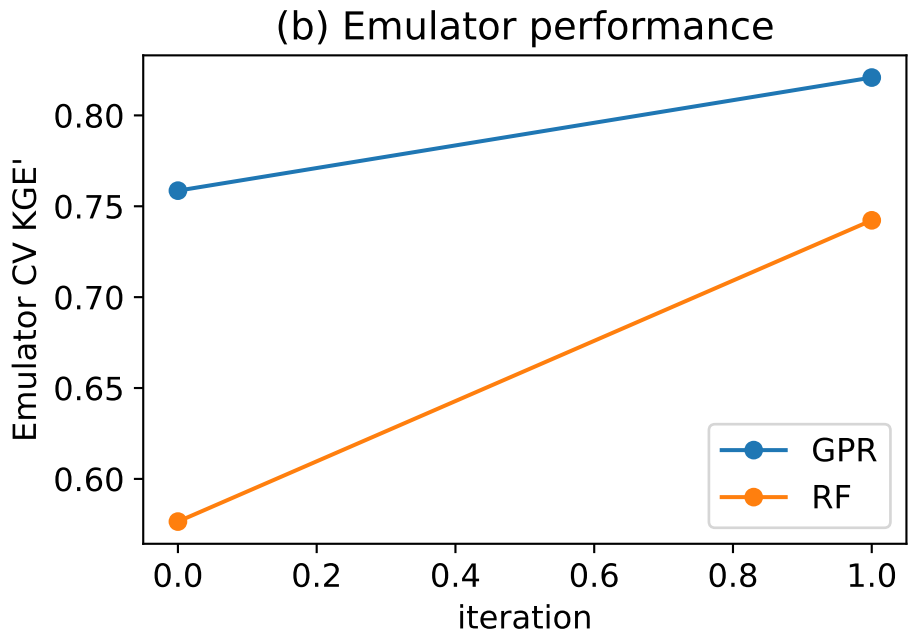
basinid: 228
hru_id: 3471500
lat_cen: 36.75424
lon_cen: -81.48407
AREA: 198.30 km2
elev_mean: 902.54 m

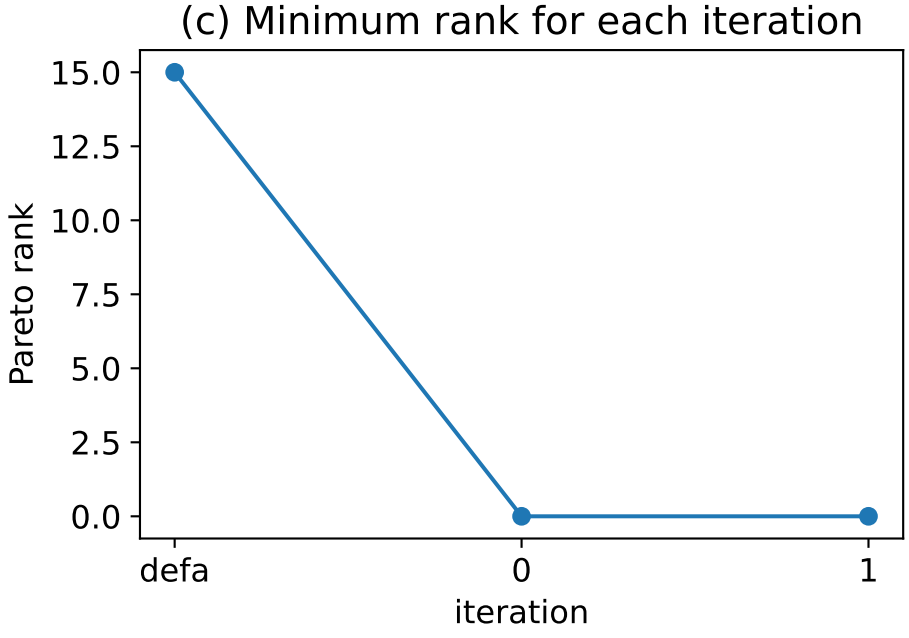

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 229
hru_id: 3479000
lat_cen: 36.21826
lon_cen: -81.76806
AREA: 237.77 km2
elev_mean: 1035.37 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 230
hru_id: 3488000
lat_cen: 36.97149
lon_cen: -81.52858
AREA: 573.76 km2
elev_mean: 805.34 m

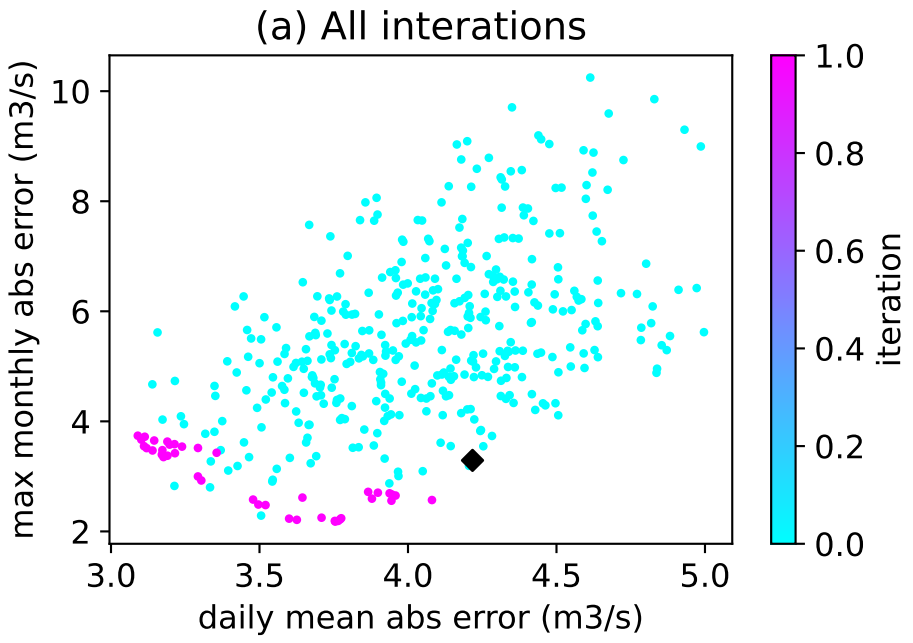

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 231
hru_id: 3498500
lat_cen: 35.68465
lon_cen: -83.7414
AREA: 700.37 km2
elev_mean: 628.50 m

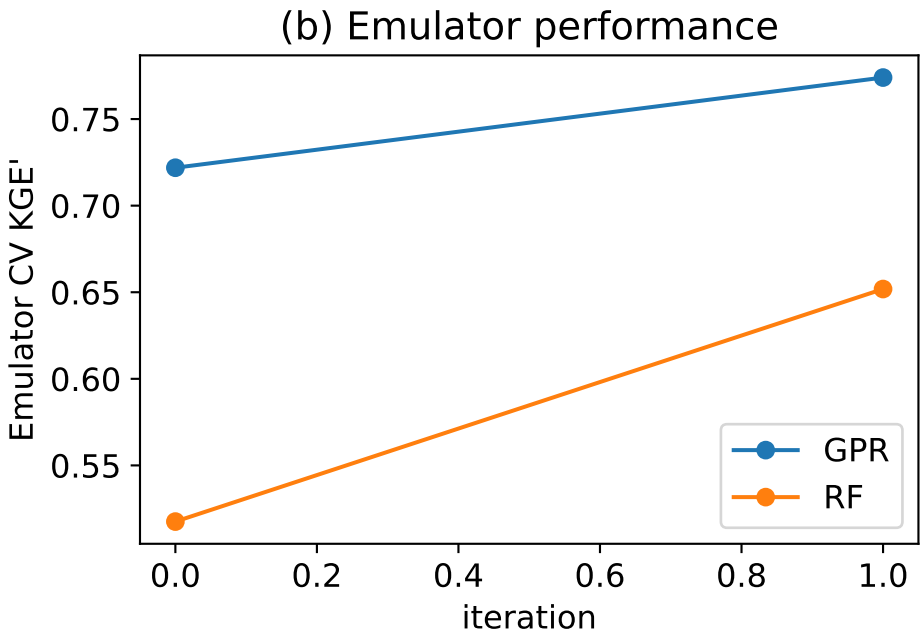


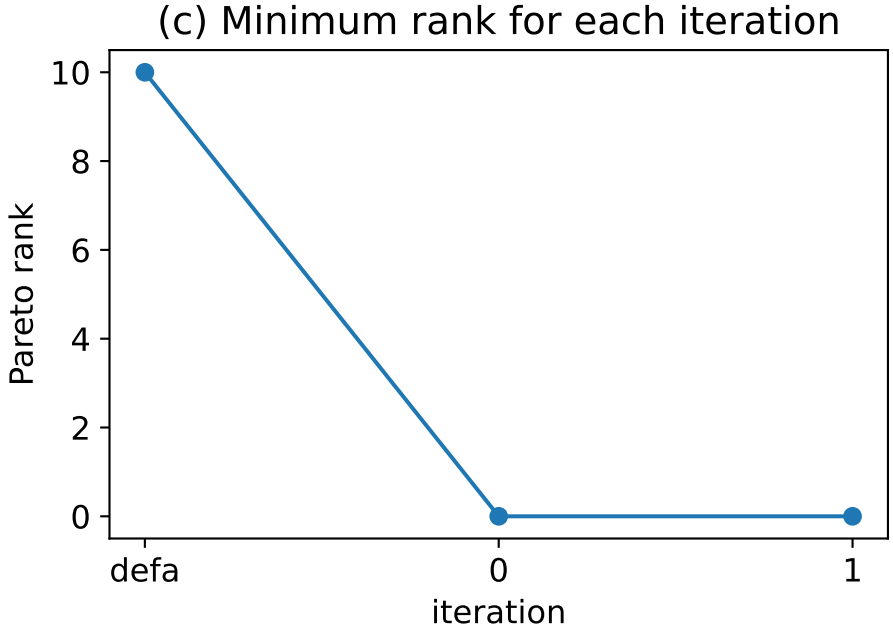




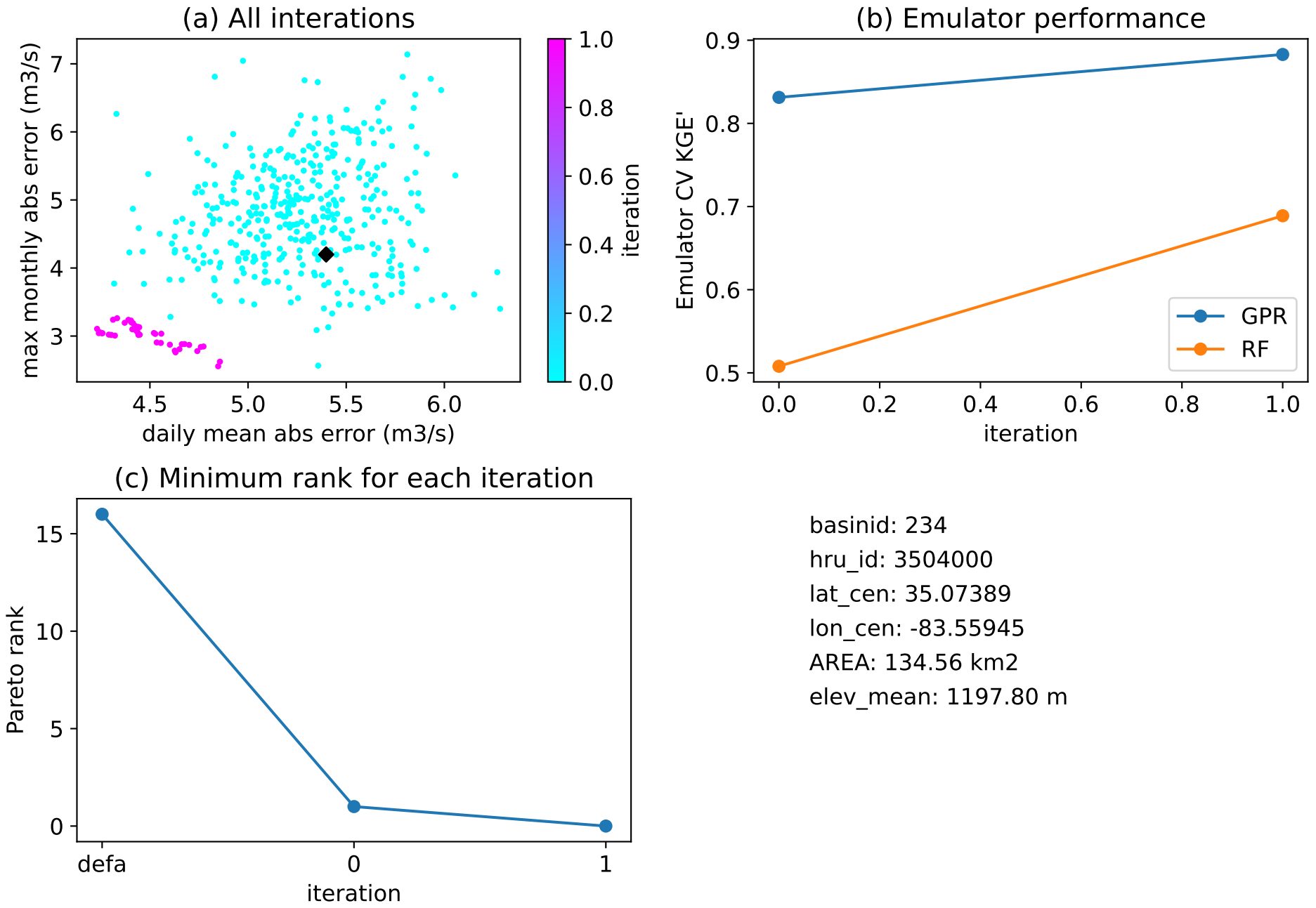
basinid: 232
hru_id: 3500000
lat_cen: 35.02575
lon_cen: -83.38489
AREA: 362.47 km2
elev_mean: 848.23 m

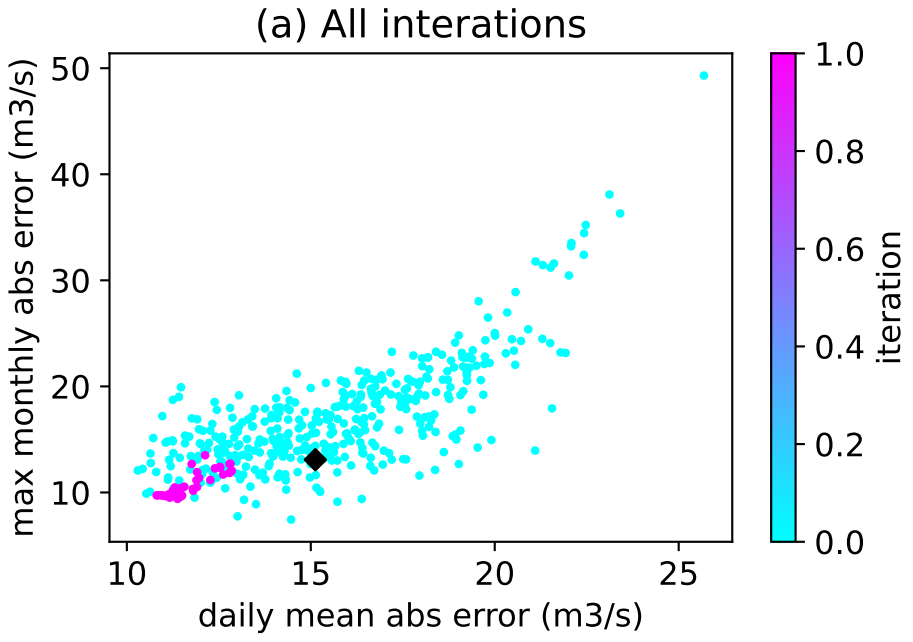


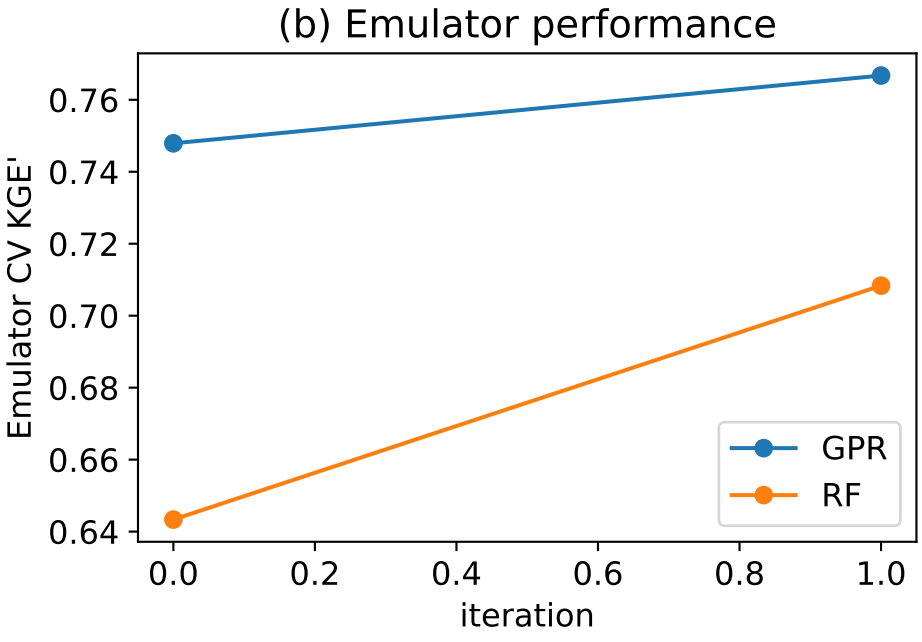


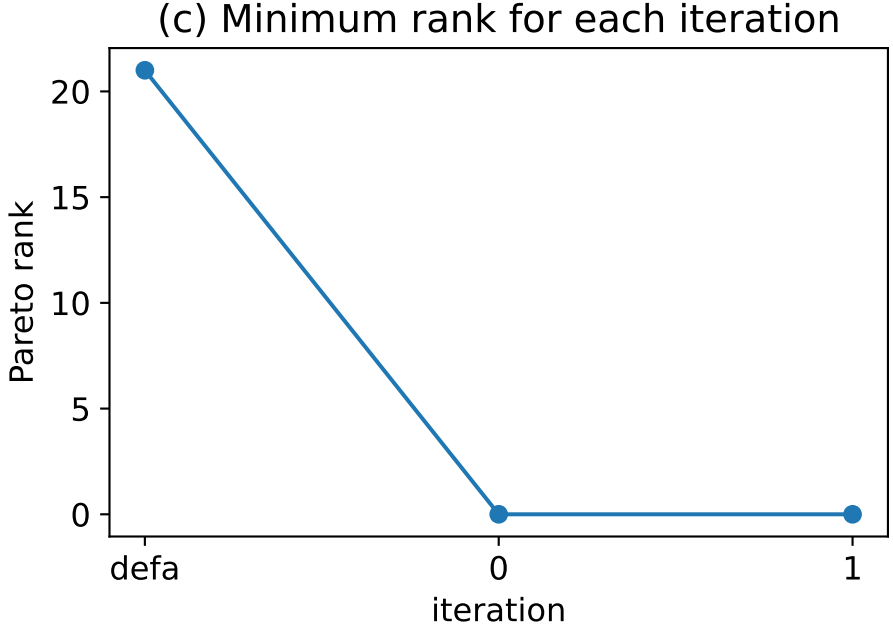


basinid: 233
hru_id: 3500240
lat_cen: 35.14094
lon_cen: -83.48454
AREA: 148.94 km2
elev_mean: 892.60 m

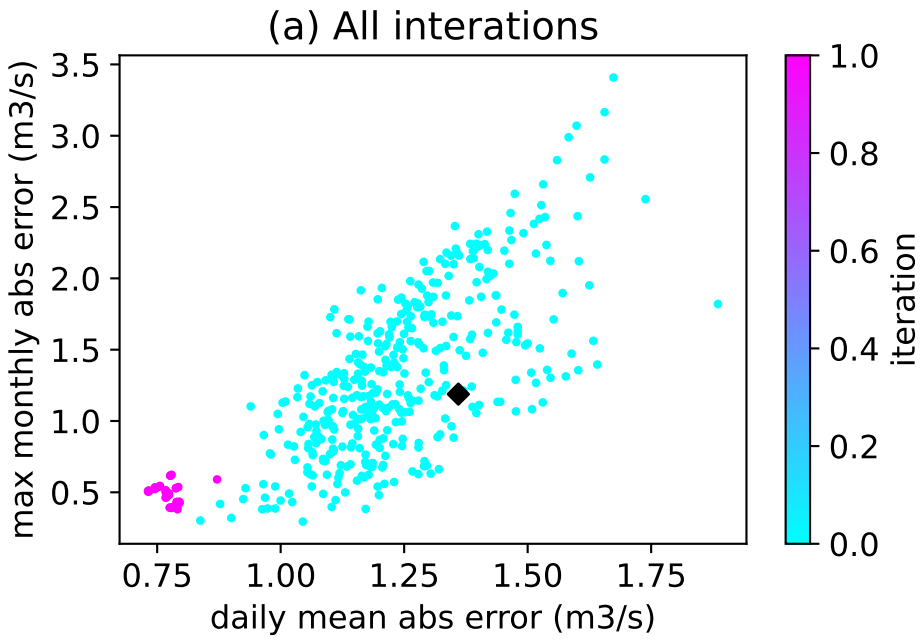

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 234
hru_id: 3504000
lat_cen: 35.07389
lon_cen: -83.55945
AREA: 134.56 km2
elev_mean: 1197.80 m

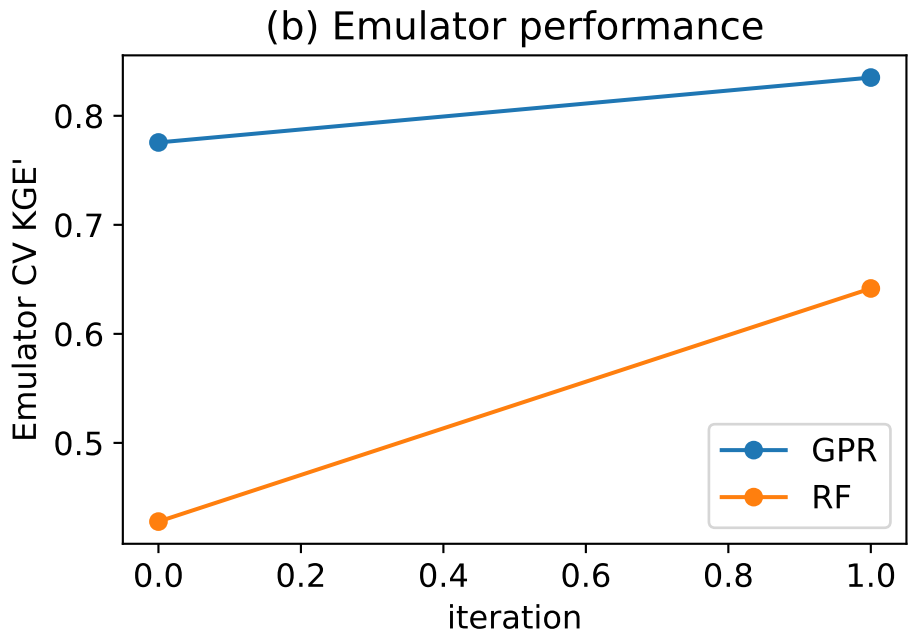


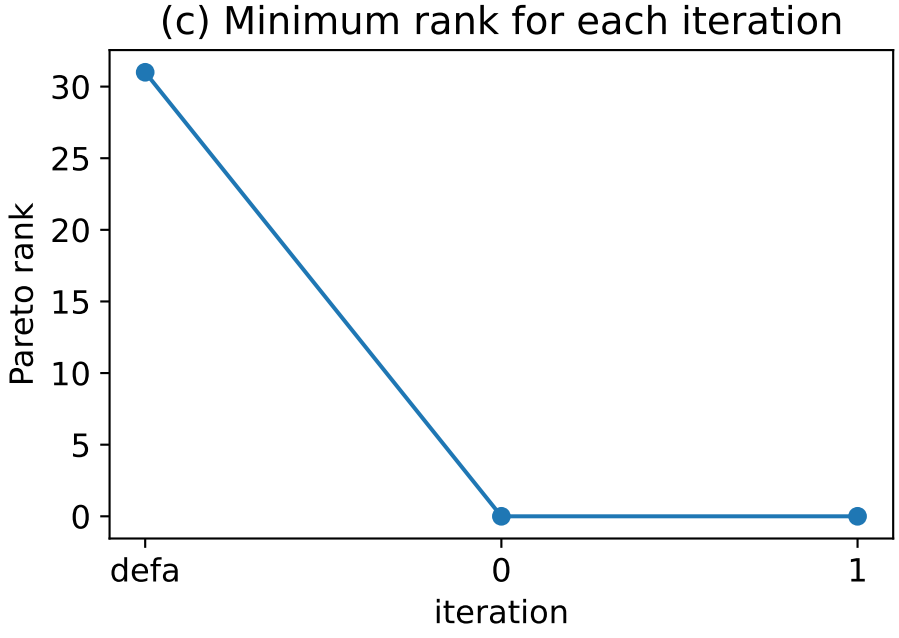




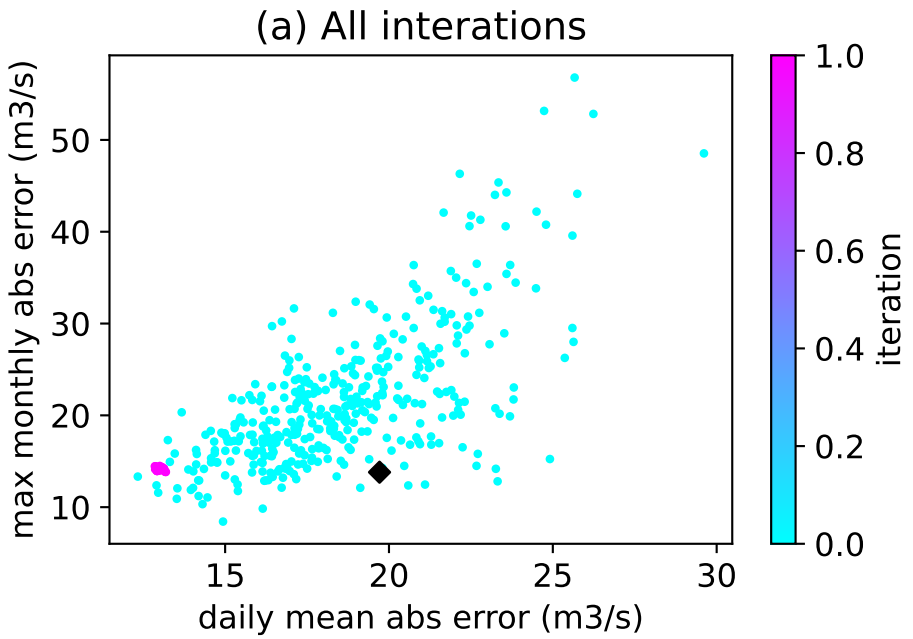
basinid: 235
hru_id: 3574500
lat_cen: 34.87494
lon_cen: -86.20704
AREA: 859.23 km2
elev_mean: 376.91 m

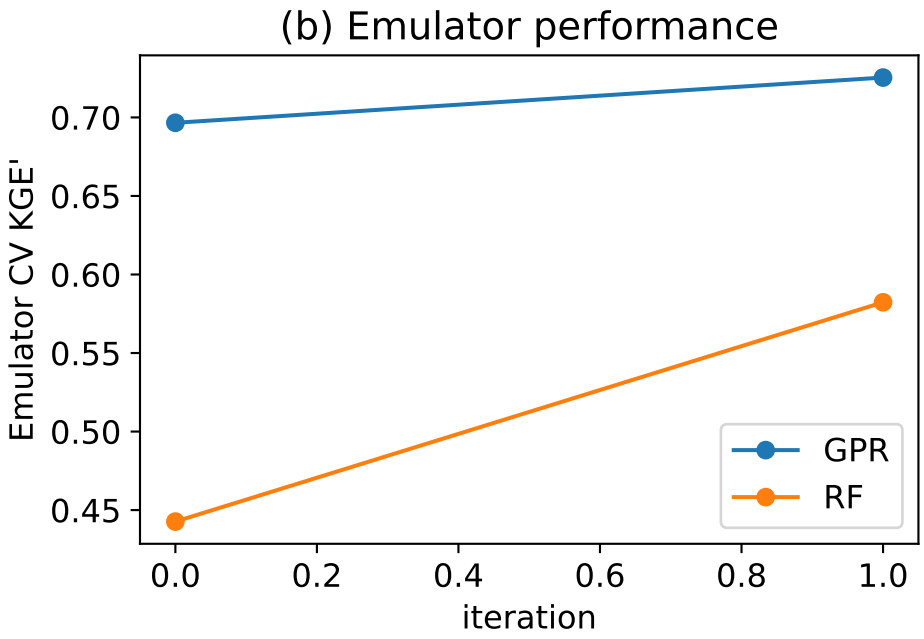


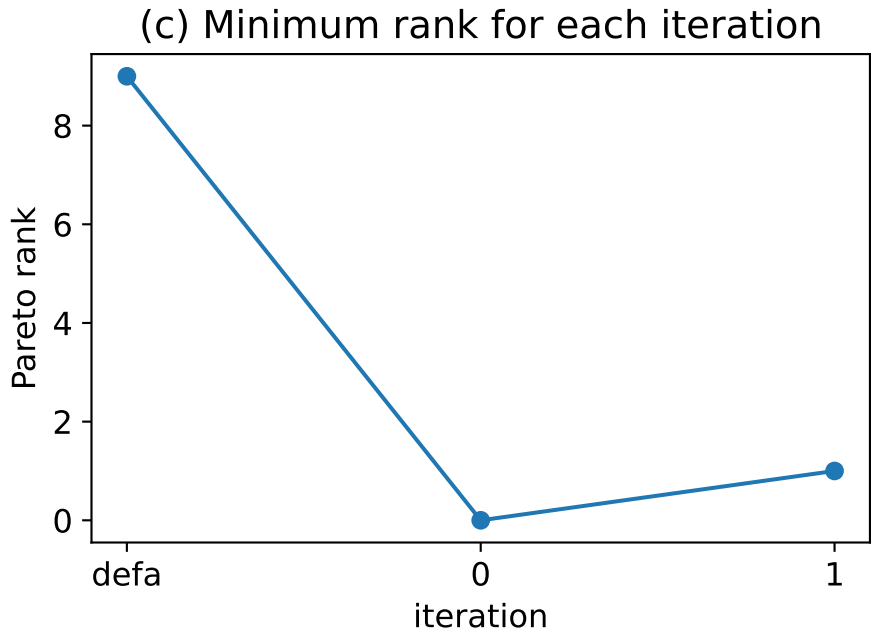




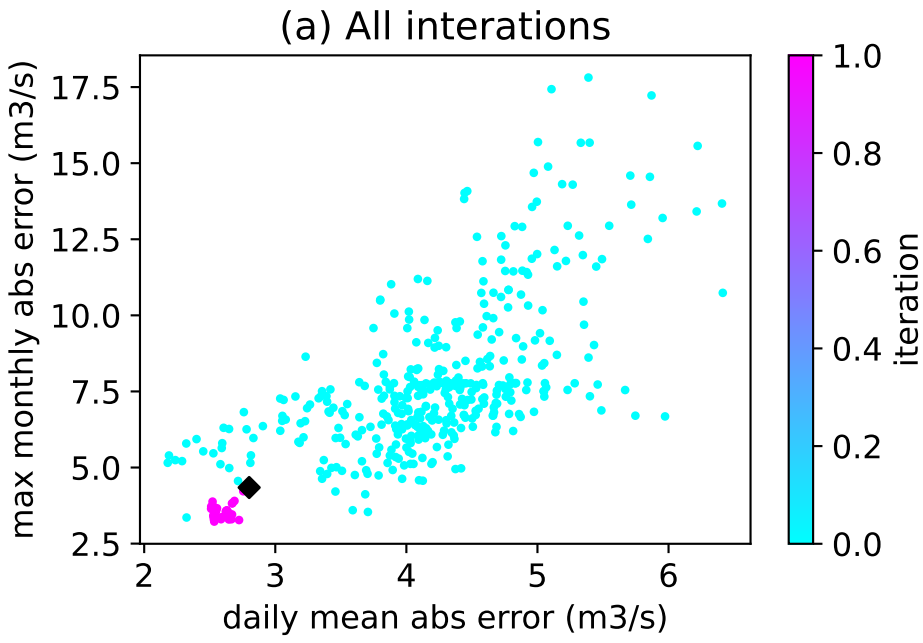
basinid: 236
hru_id: 3592718
lat_cen: 34.79907
lon_cen: -88.25998
AREA: 67.00 km2
elev_mean: 162.00 m

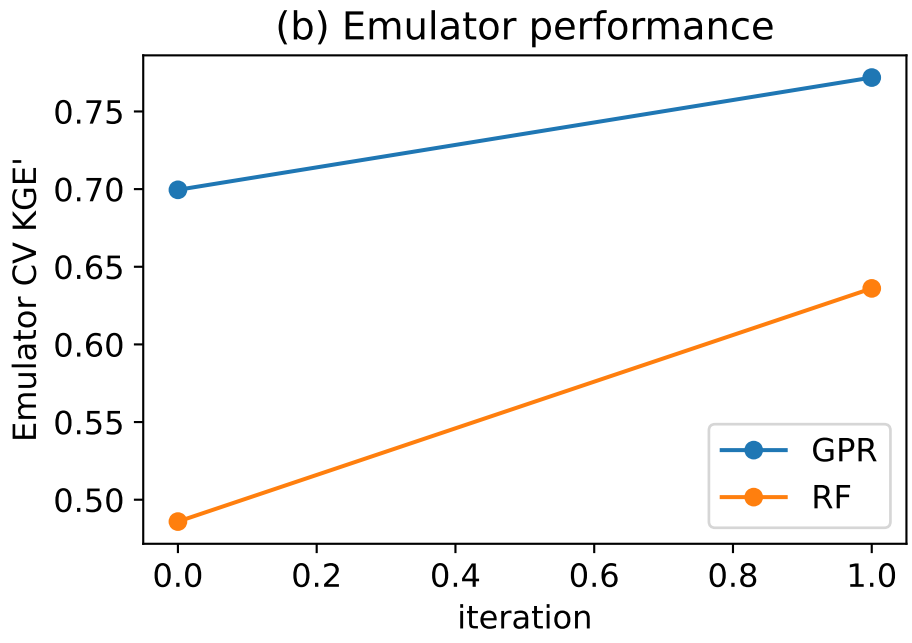


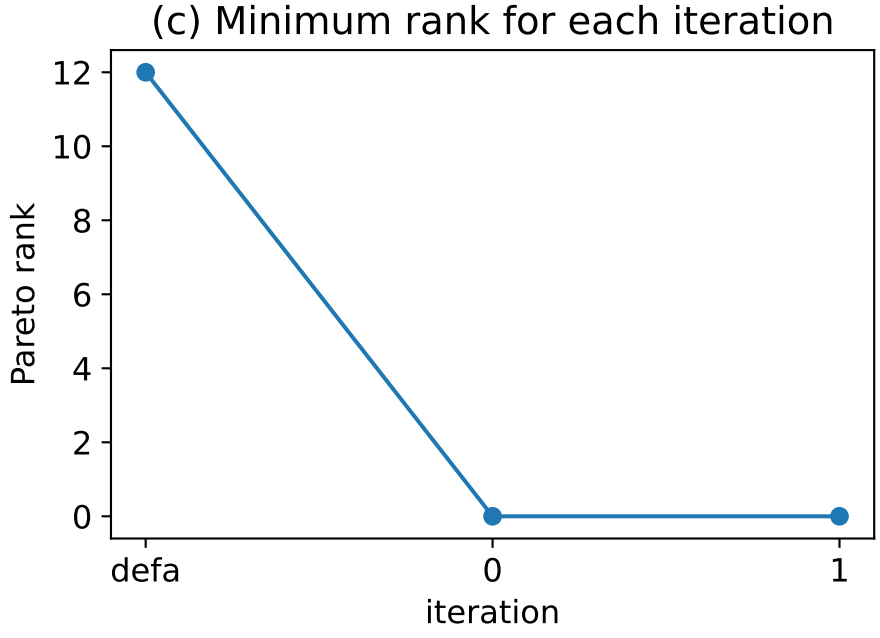




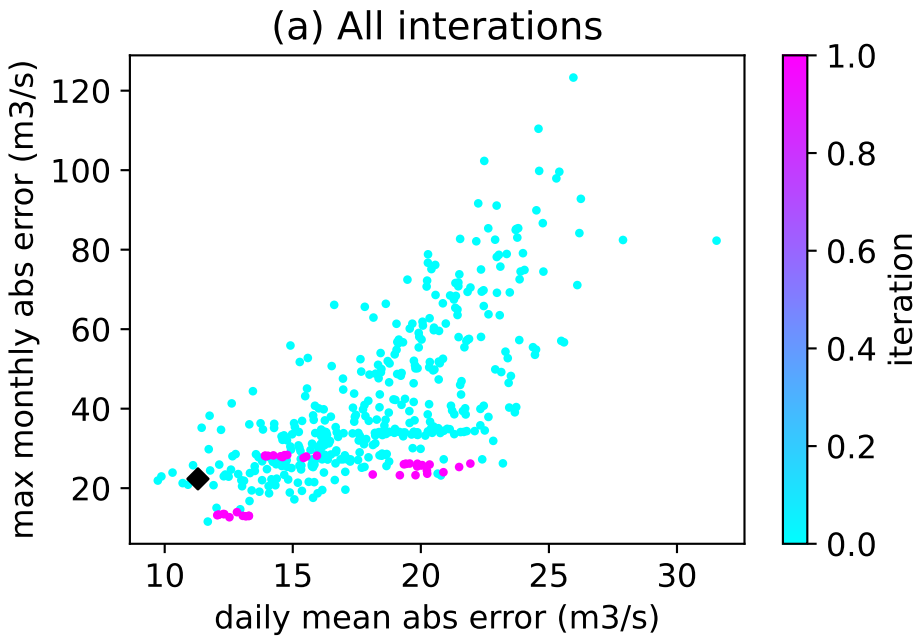
basinid: 237
hru_id: 3604000
lat_cen: 35.4039
lon_cen: -87.56998
AREA: 1163.38 km2
elev_mean: 264.88 m

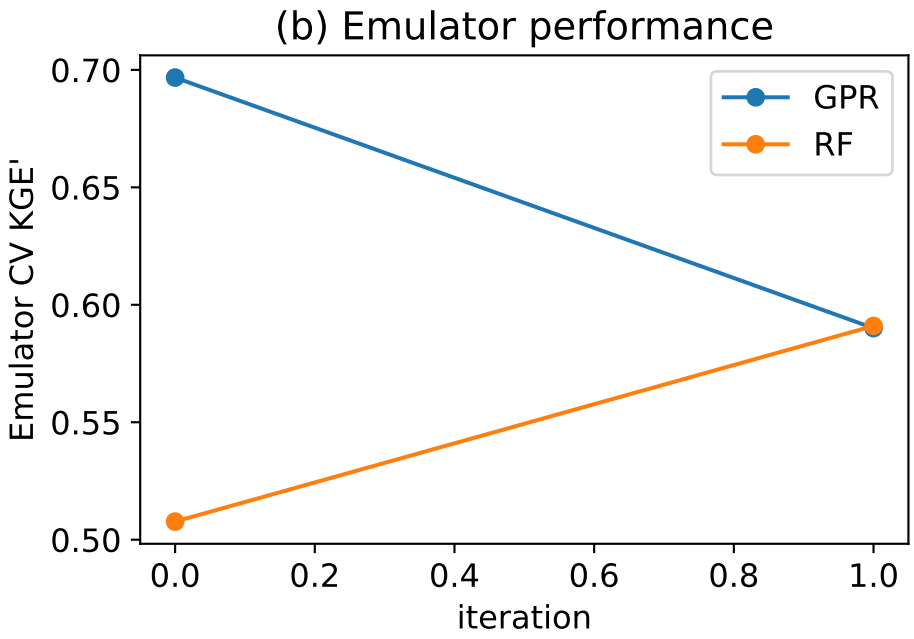


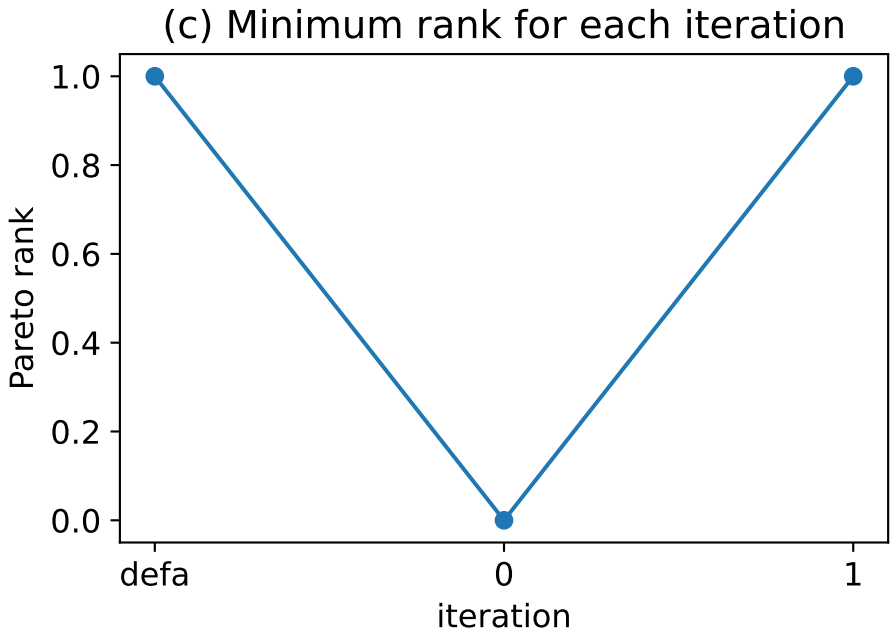




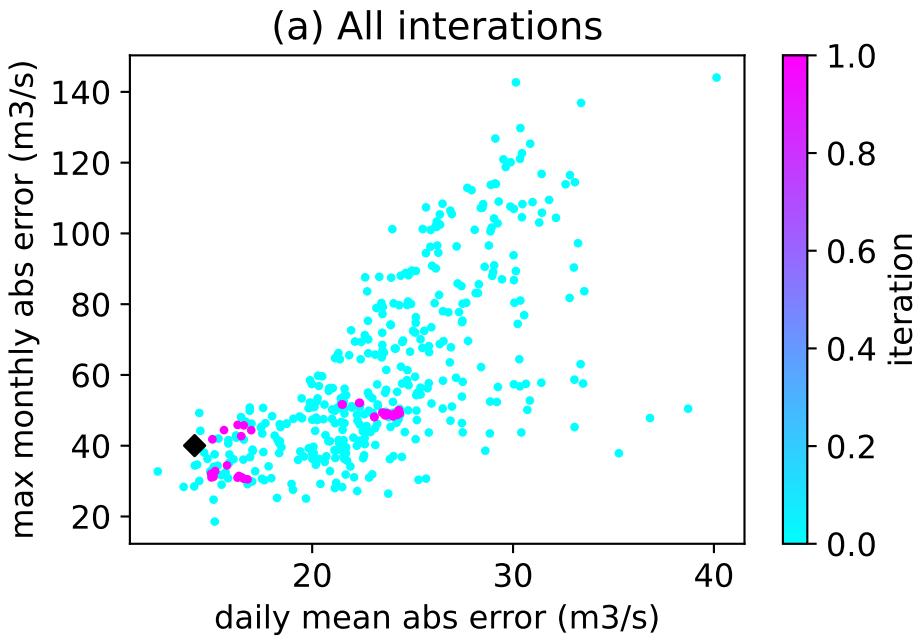
basinid: 238
hru_id: 4015330
lat_cen: 47.04074
lon_cen: -91.81157
AREA: 225.84 km2
elev_mean: 377.12 m

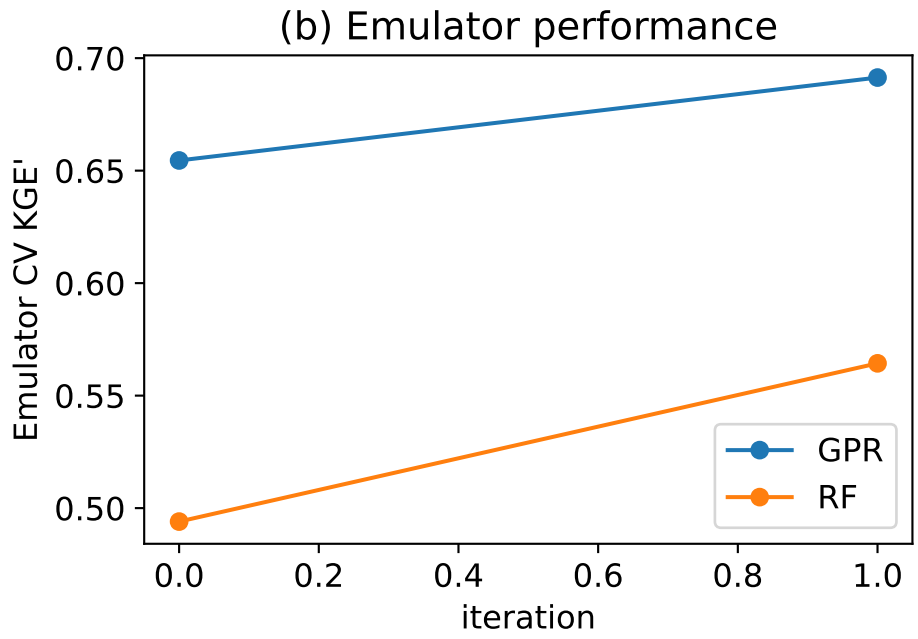


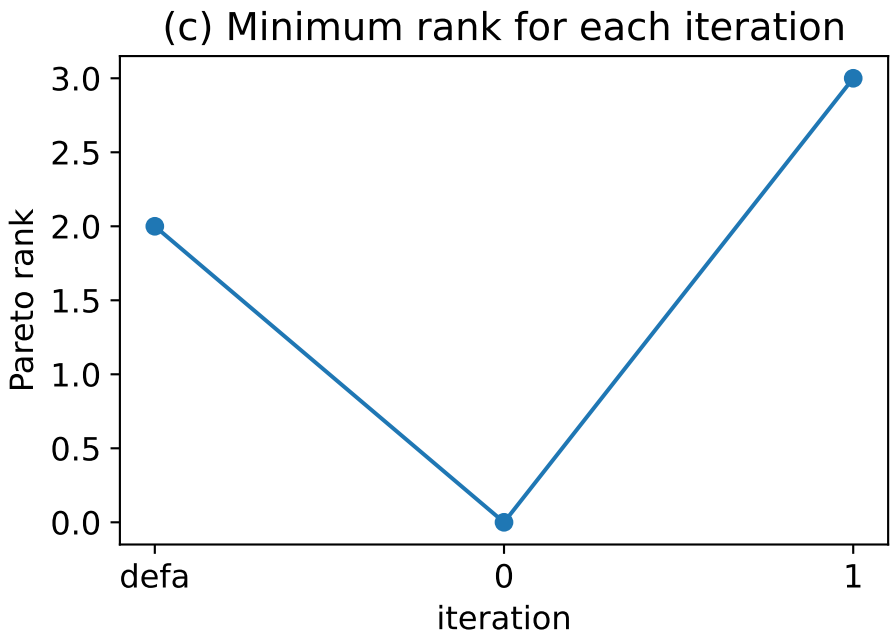




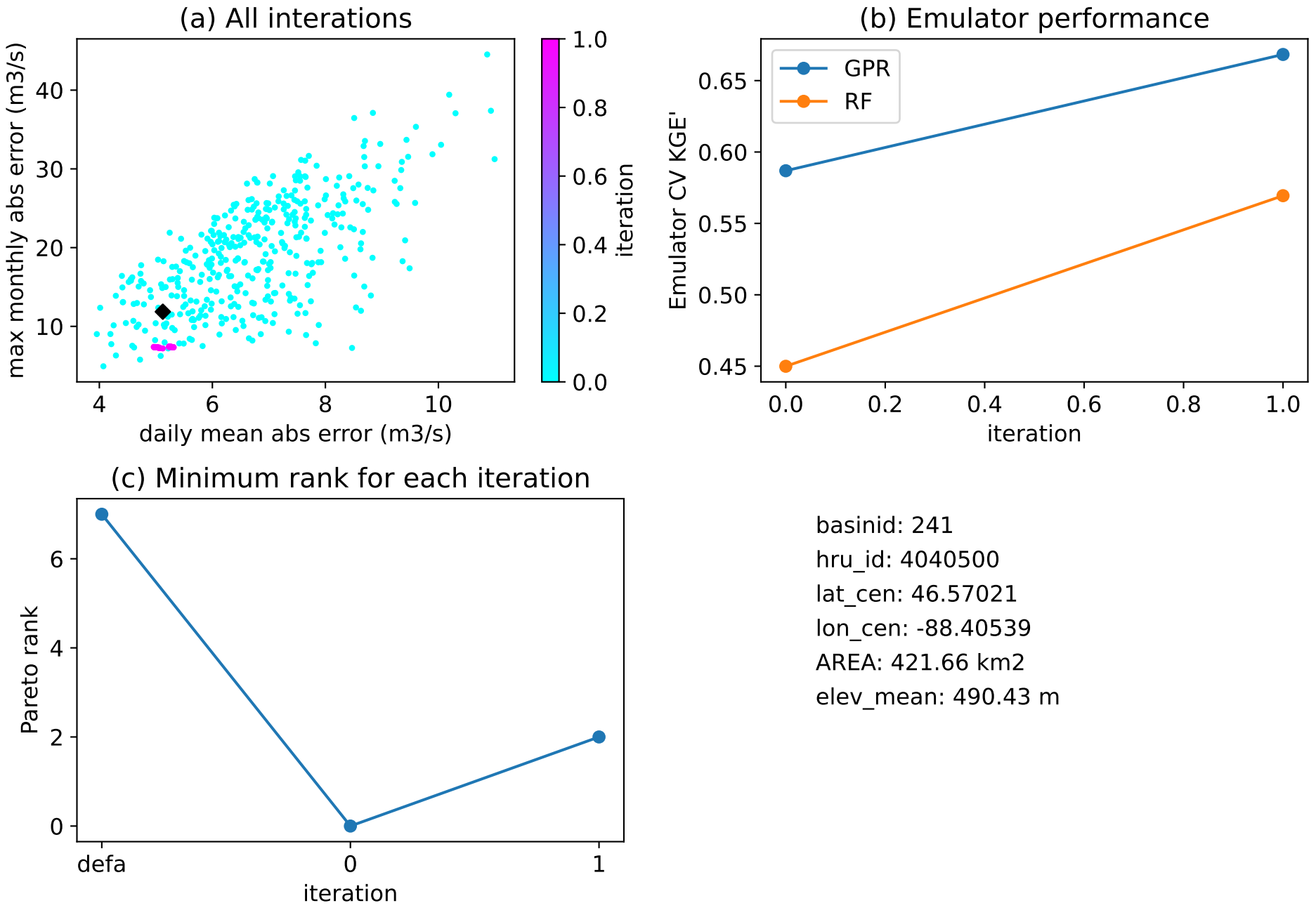
basinid: 239
hru_id: 4024430
lat_cen: 46.49096
lon_cen: -92.35951
AREA: 1094.57 km2
elev_mean: 326.52 m

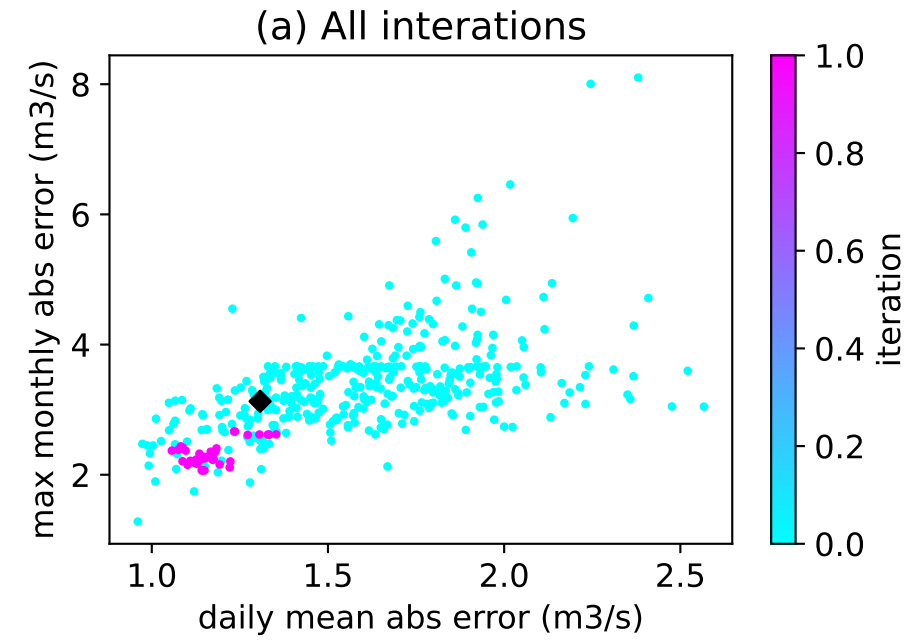


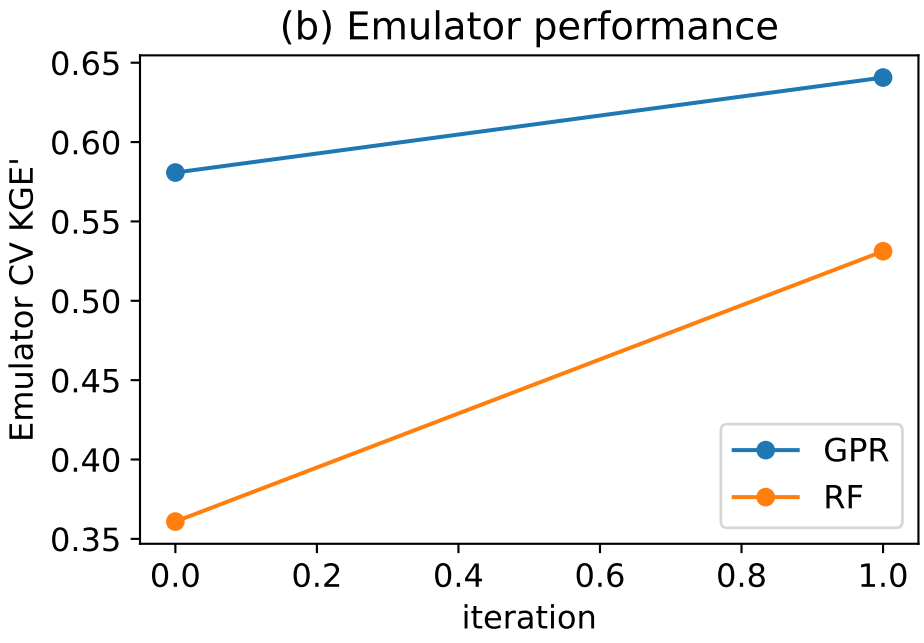


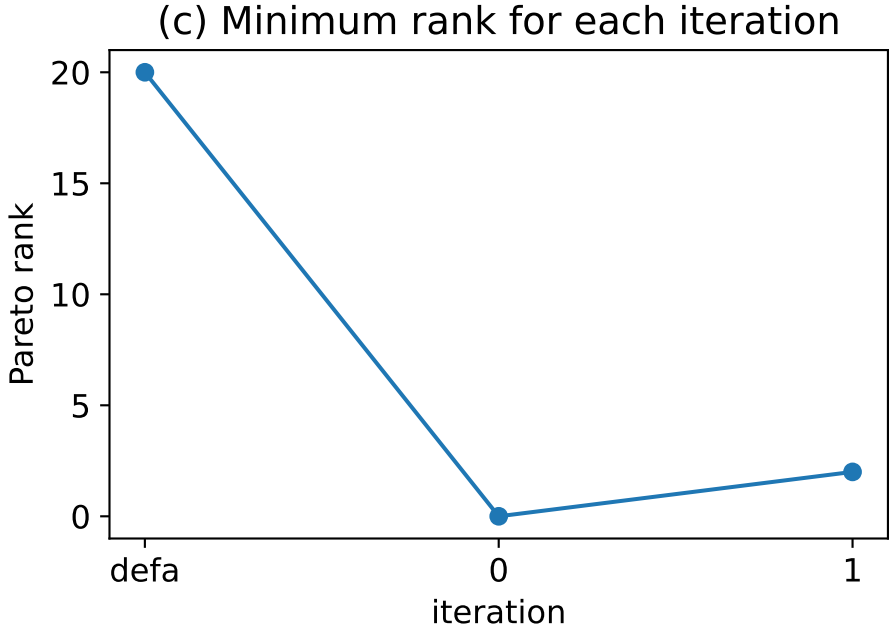


basinid: 240
hru_id: 4027000
lat_cen: 46.34832
lon_cen: -90.65961
AREA: 1547.18 km2
elev_mean: 398.52 m

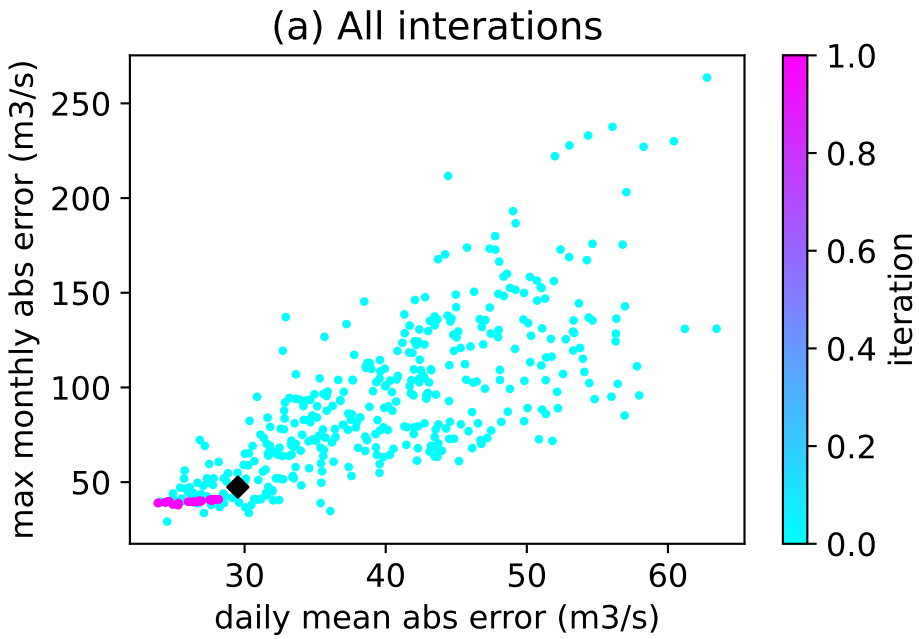

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 241
hru_id: 4040500
lat_cen: 46.57021
lon_cen: -88.40539
AREA: 421.66 km2
elev_mean: 490.43 m

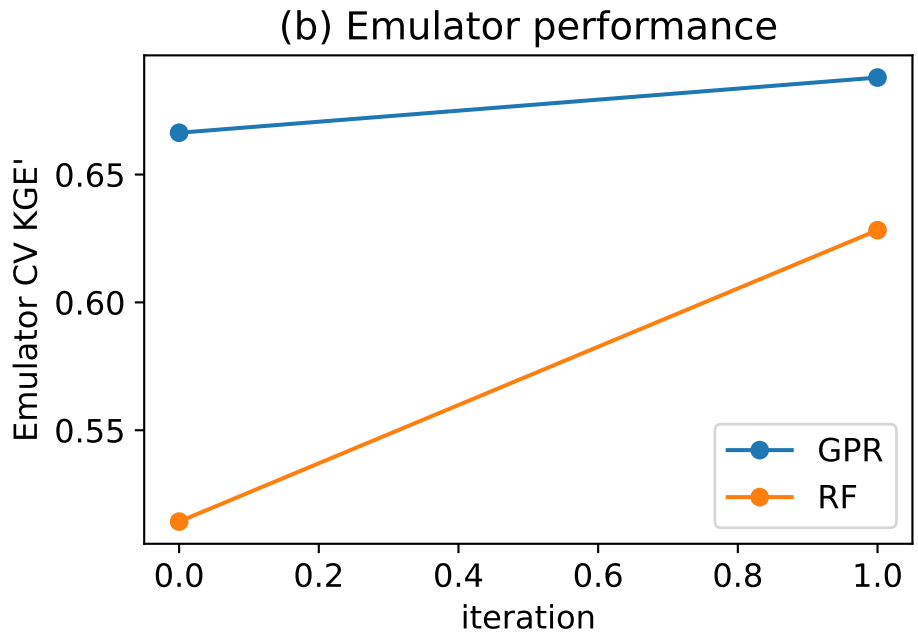


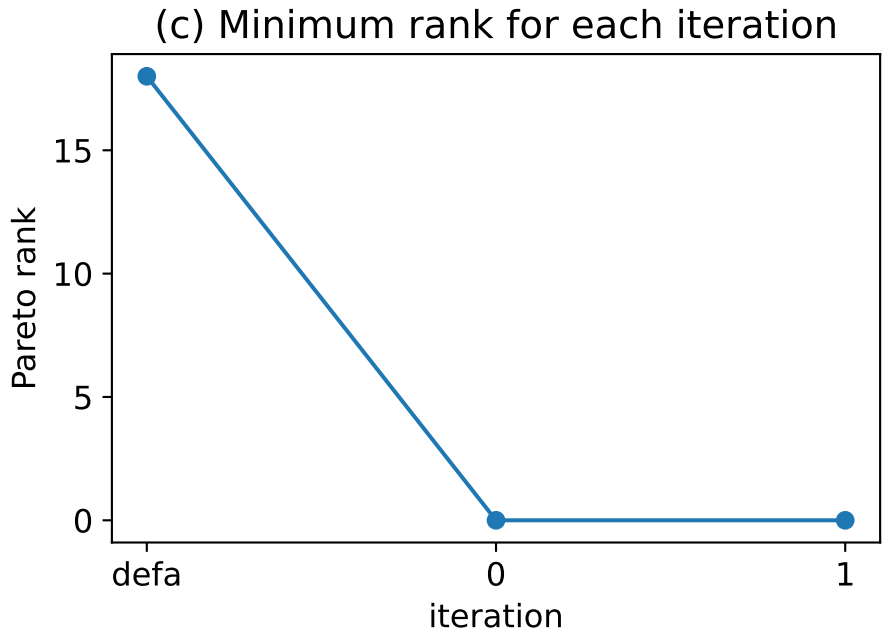




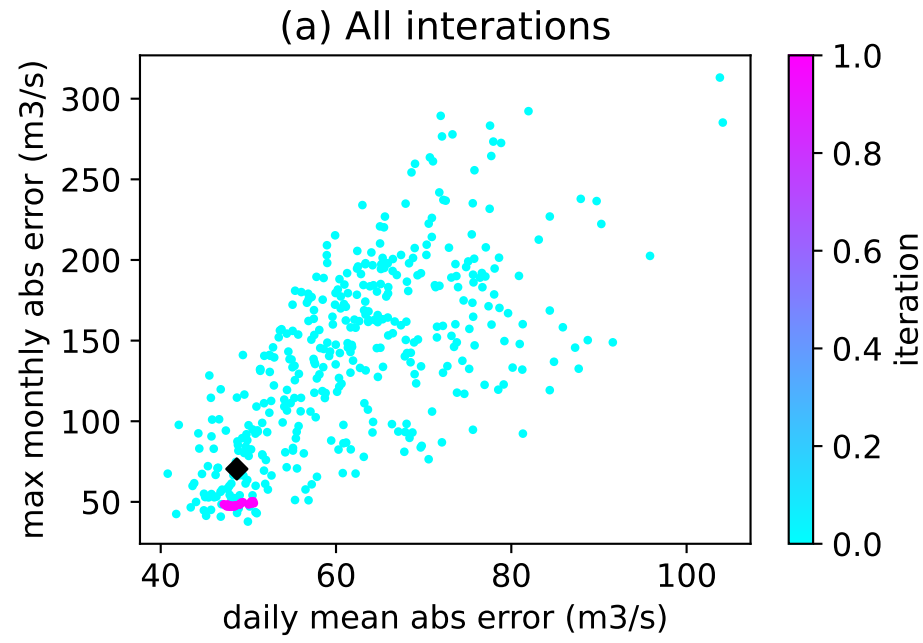
basinid: 242
hru_id: 4043050
lat_cen: 47.27758
lon_cen: -88.35696
AREA: 76.66 km2
elev_mean: 295.31 m

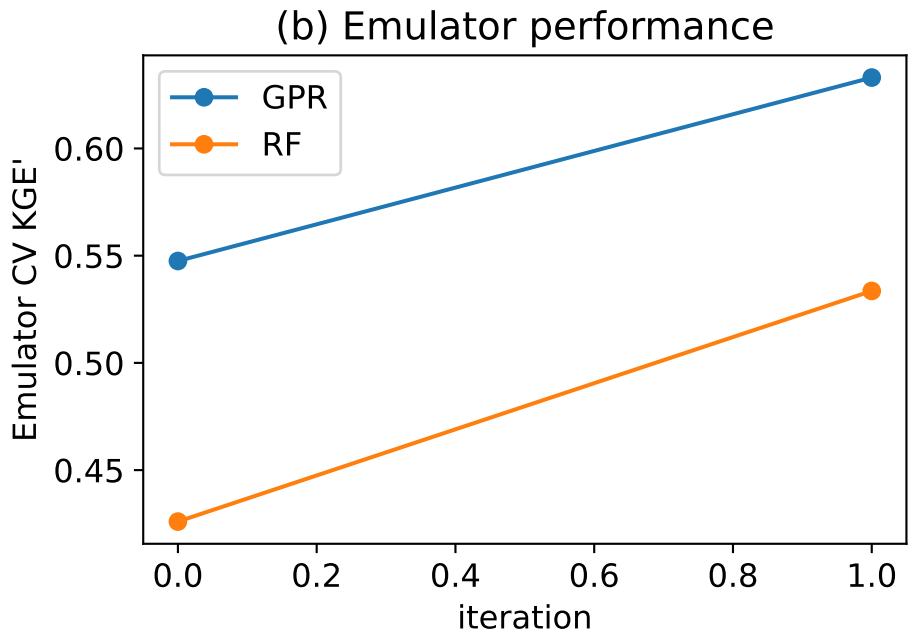


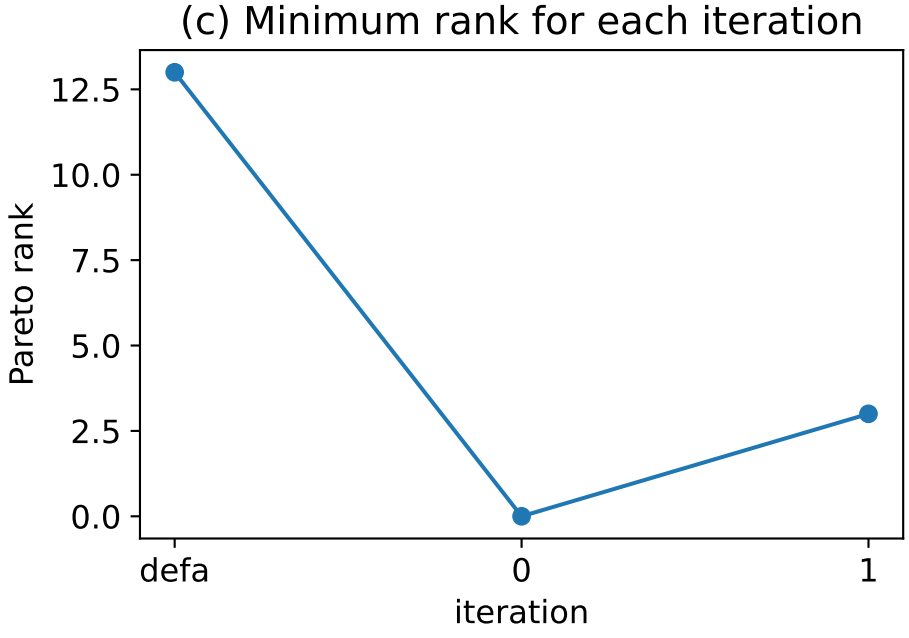




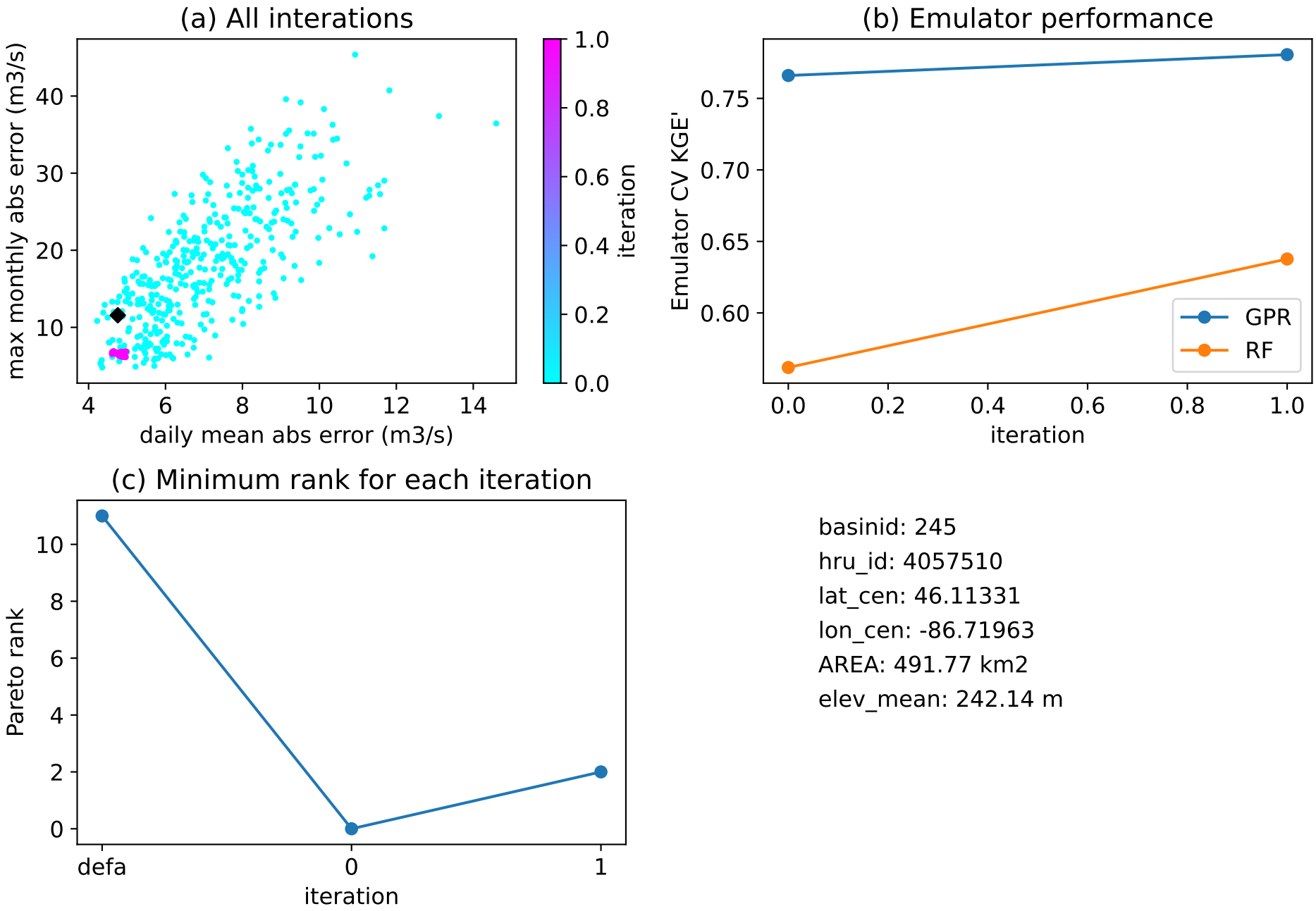
basinid: 243
hru_id: 4045500
lat_cen: 46.36934
lon_cen: -85.35636
AREA: 1967.48 km2
elev_mean: 246.37 m

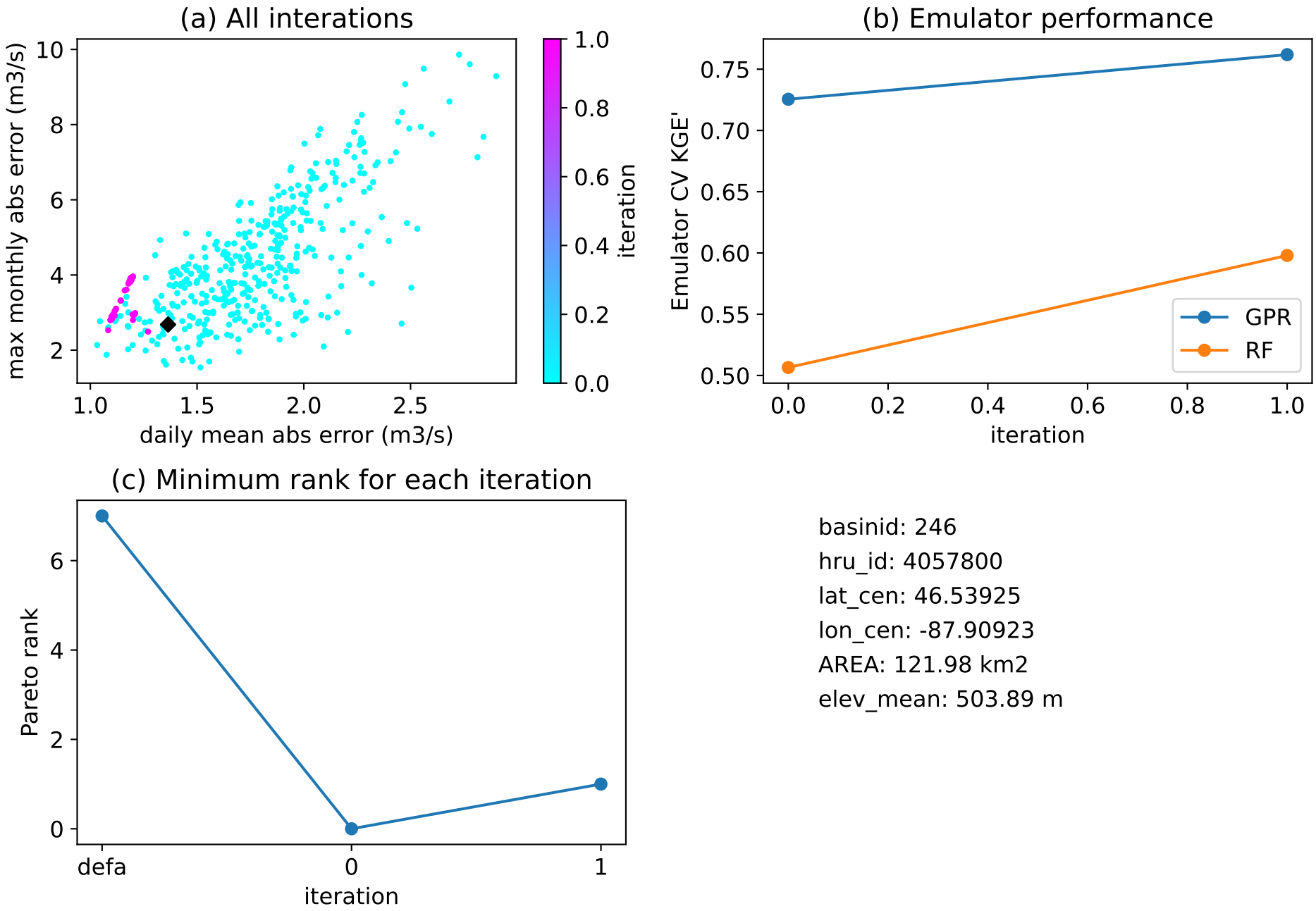


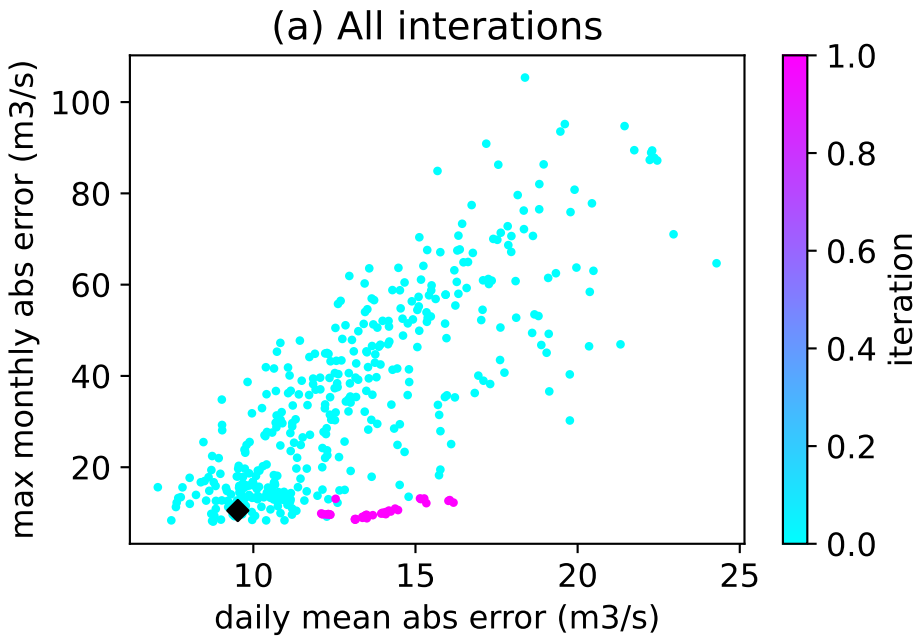


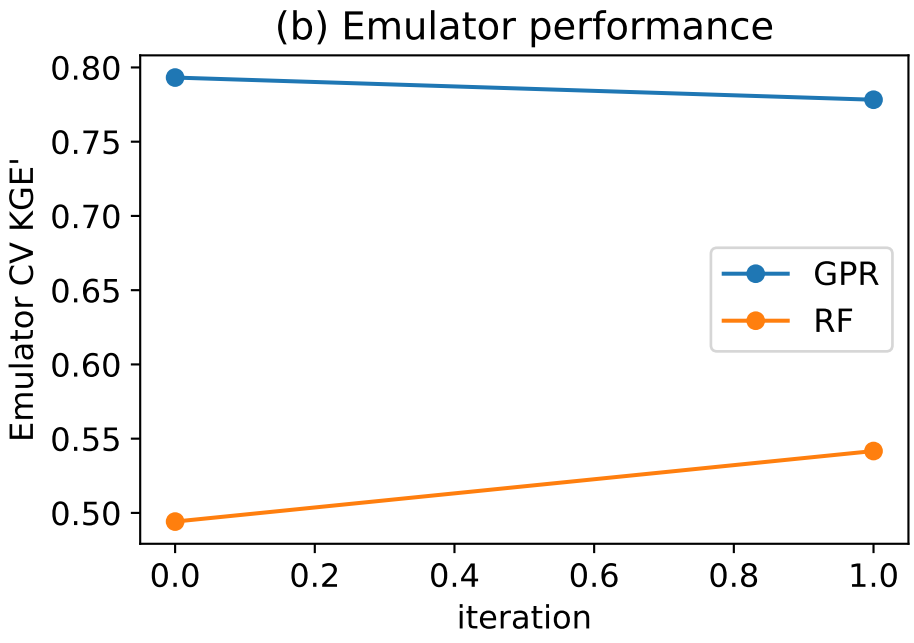


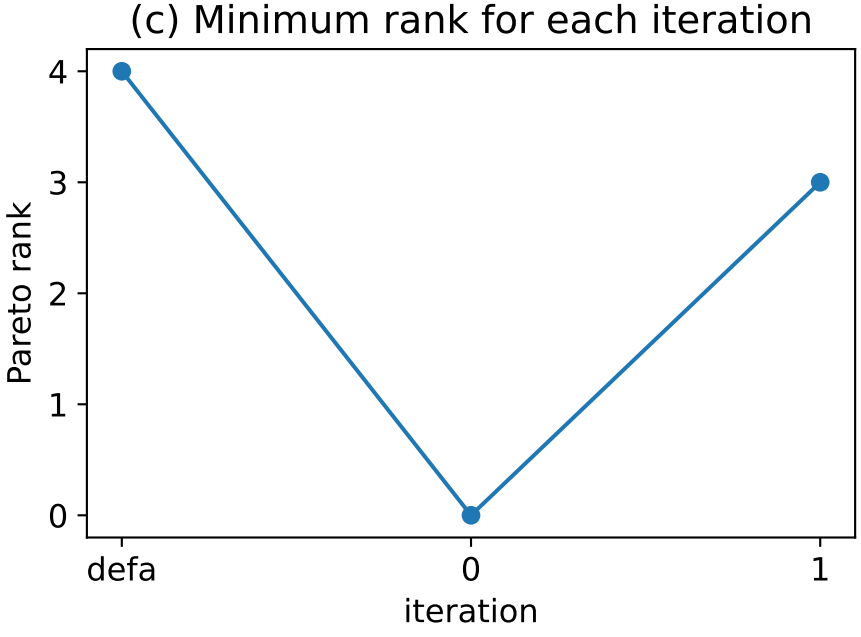
basinid: 244
hru_id: 4056500
lat_cen: 46.30359
lon_cen: -86.12346
AREA: 2984.09 km2
elev_mean: 241.13 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 245
hru_id: 4057510
lat_cen: 46.11331
lon_cen: -86.71963
AREA: 491.77 km2
elev_mean: 242.14 m

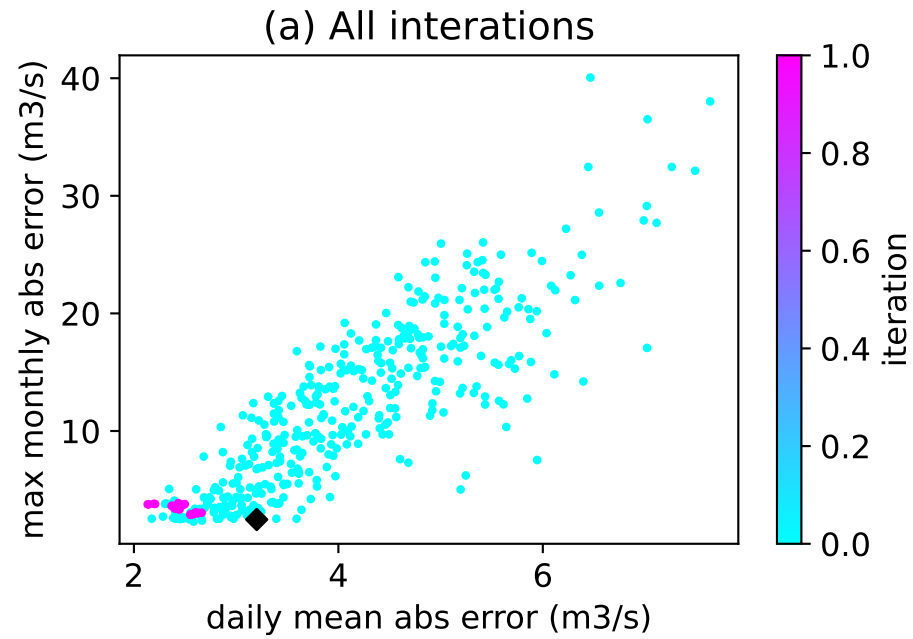

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 246
hru_id: 4057800
lat_cen: 46.53925
lon_cen: -87.90923
AREA: 121.98 km2
elev_mean: 503.89 m

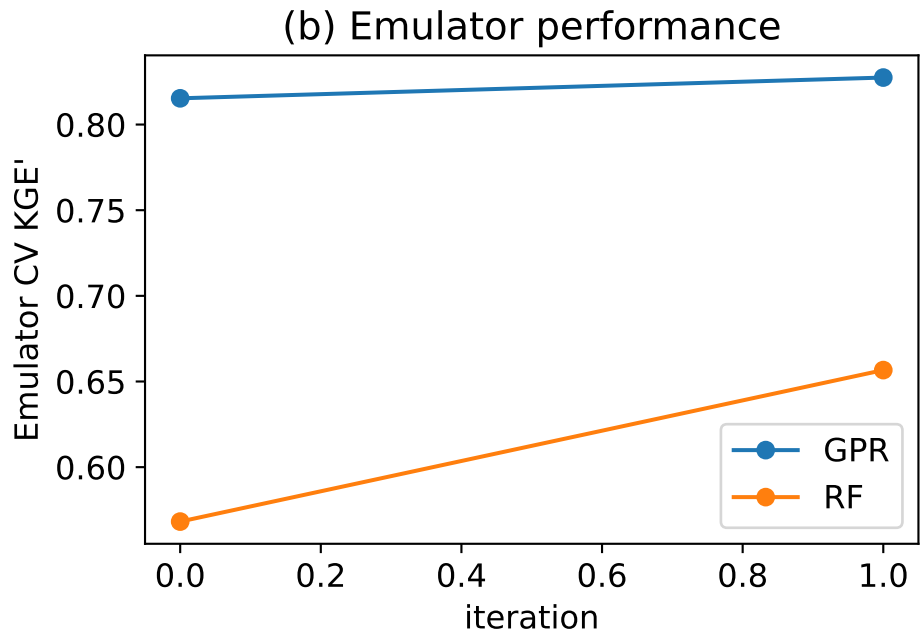


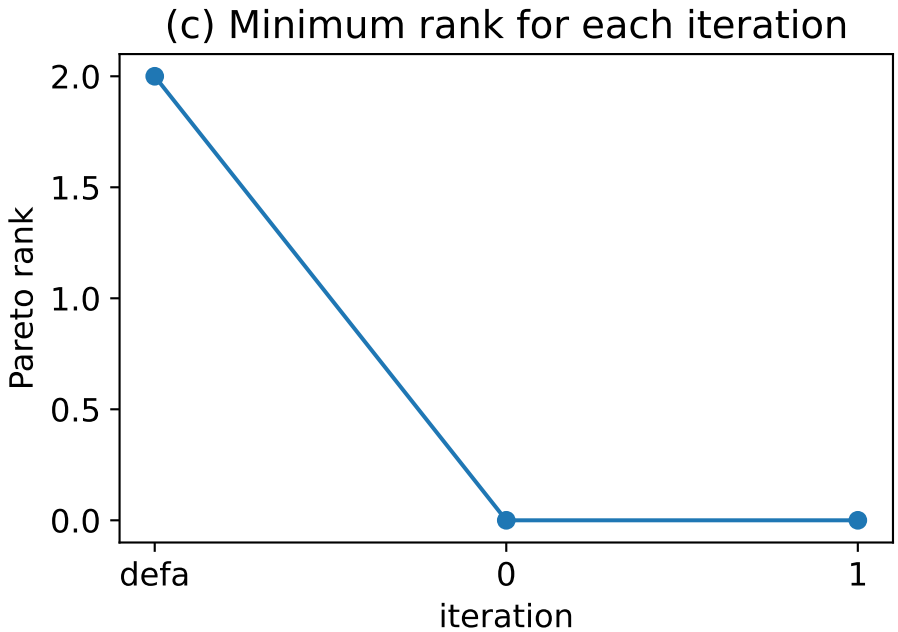




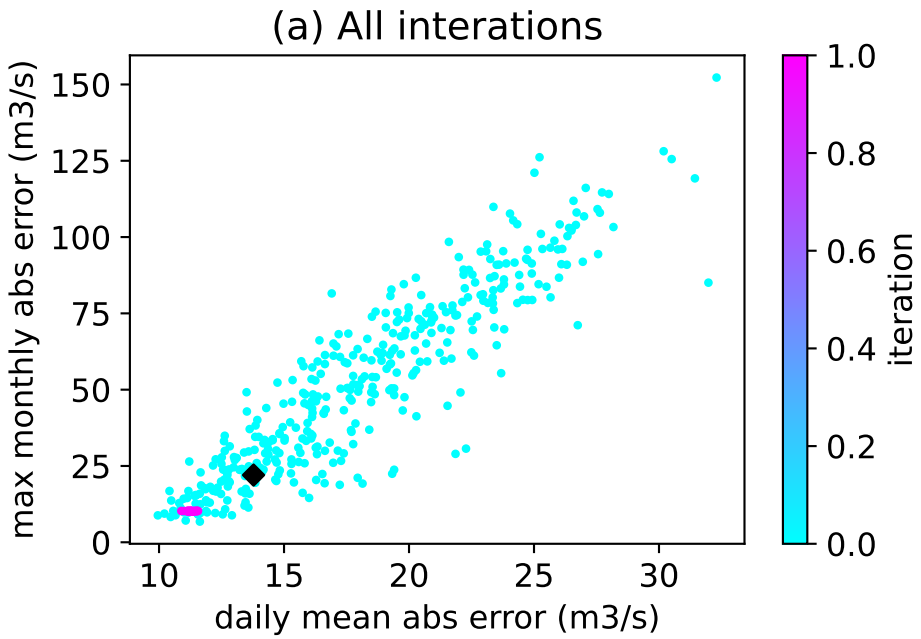
basinid: 247
hru_id: 4059500
lat_cen: 46.00745
lon_cen: -87.60948
AREA: 1188.84 km2
elev_mean: 332.07 m

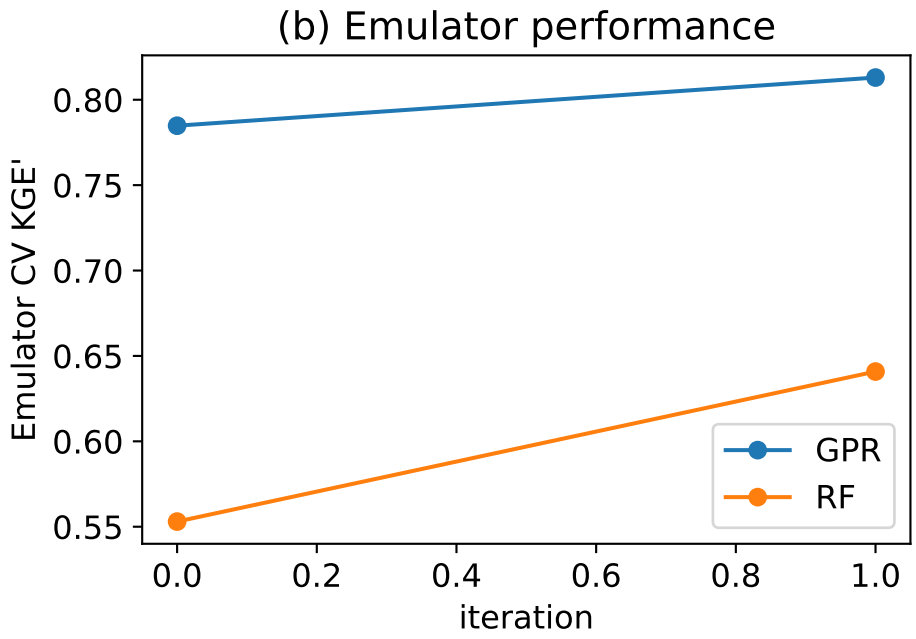


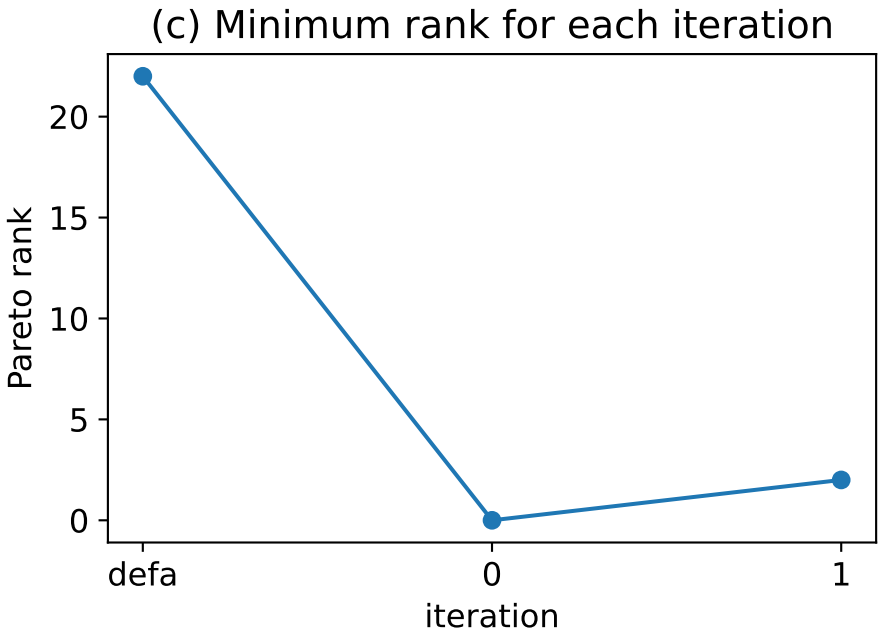




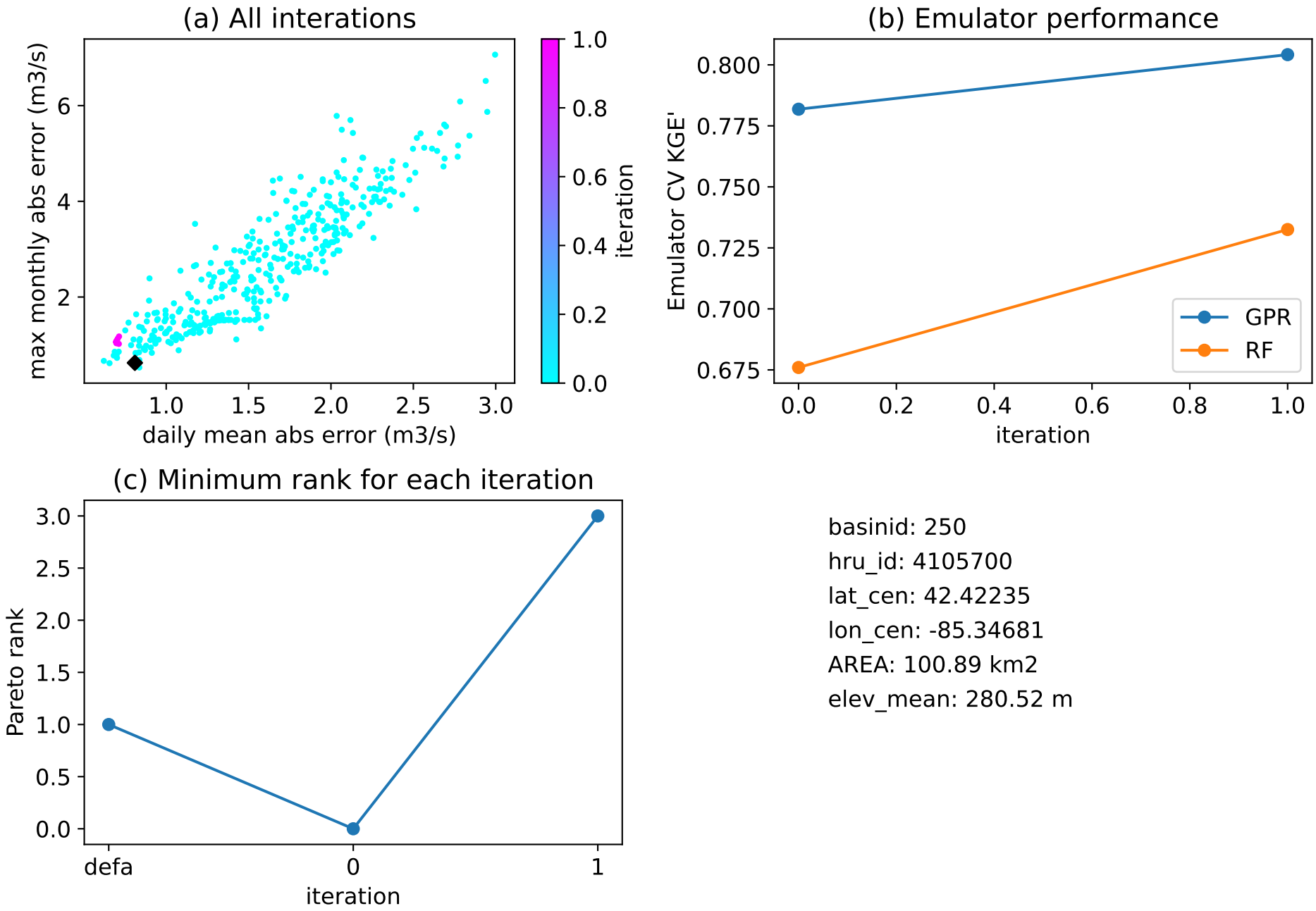
basinid: 248
hru_id: 4063700
lat_cen: 45.75714
lon_cen: -88.66187
AREA: 371.32 km2
elev_mean: 470.85 m

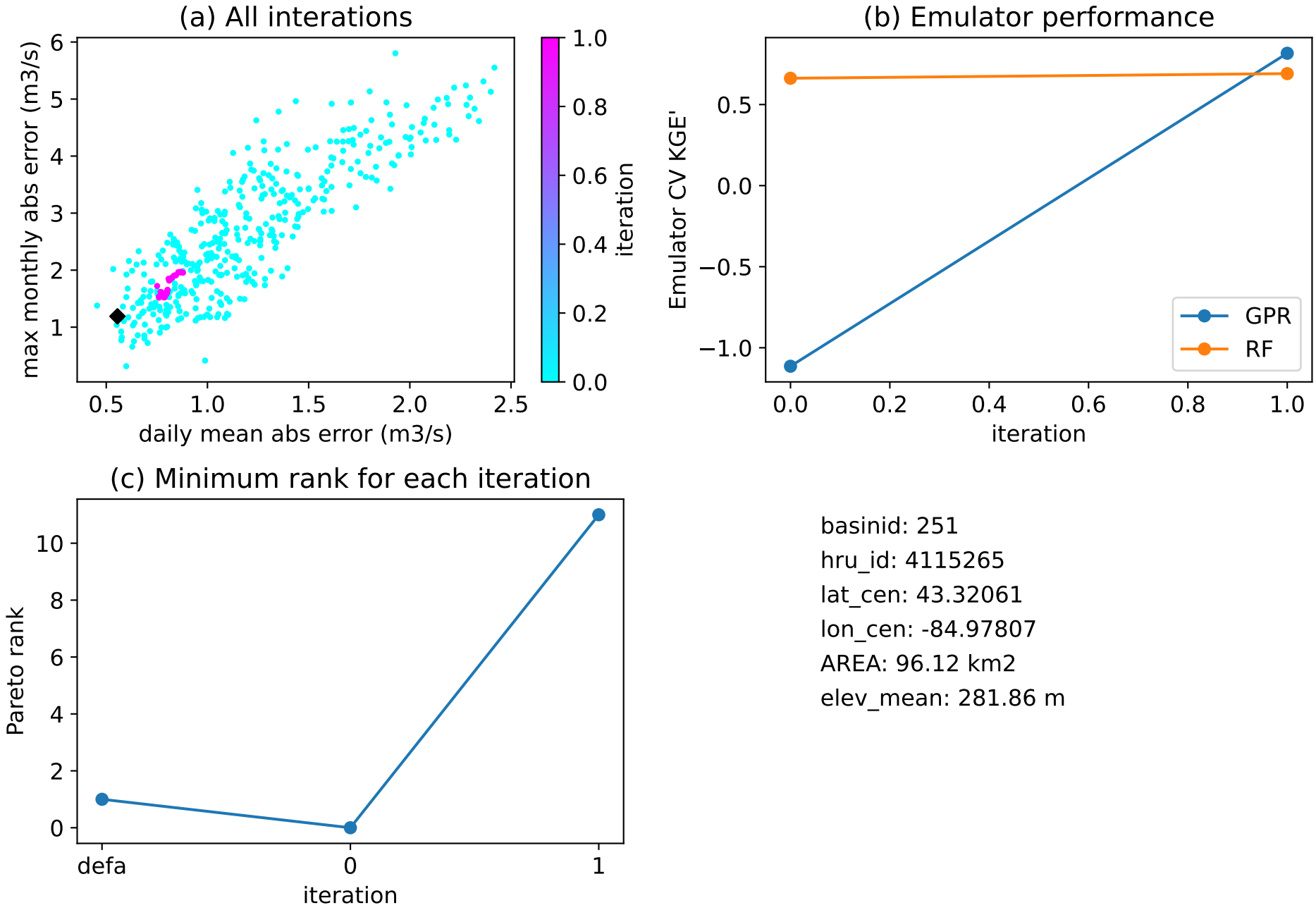


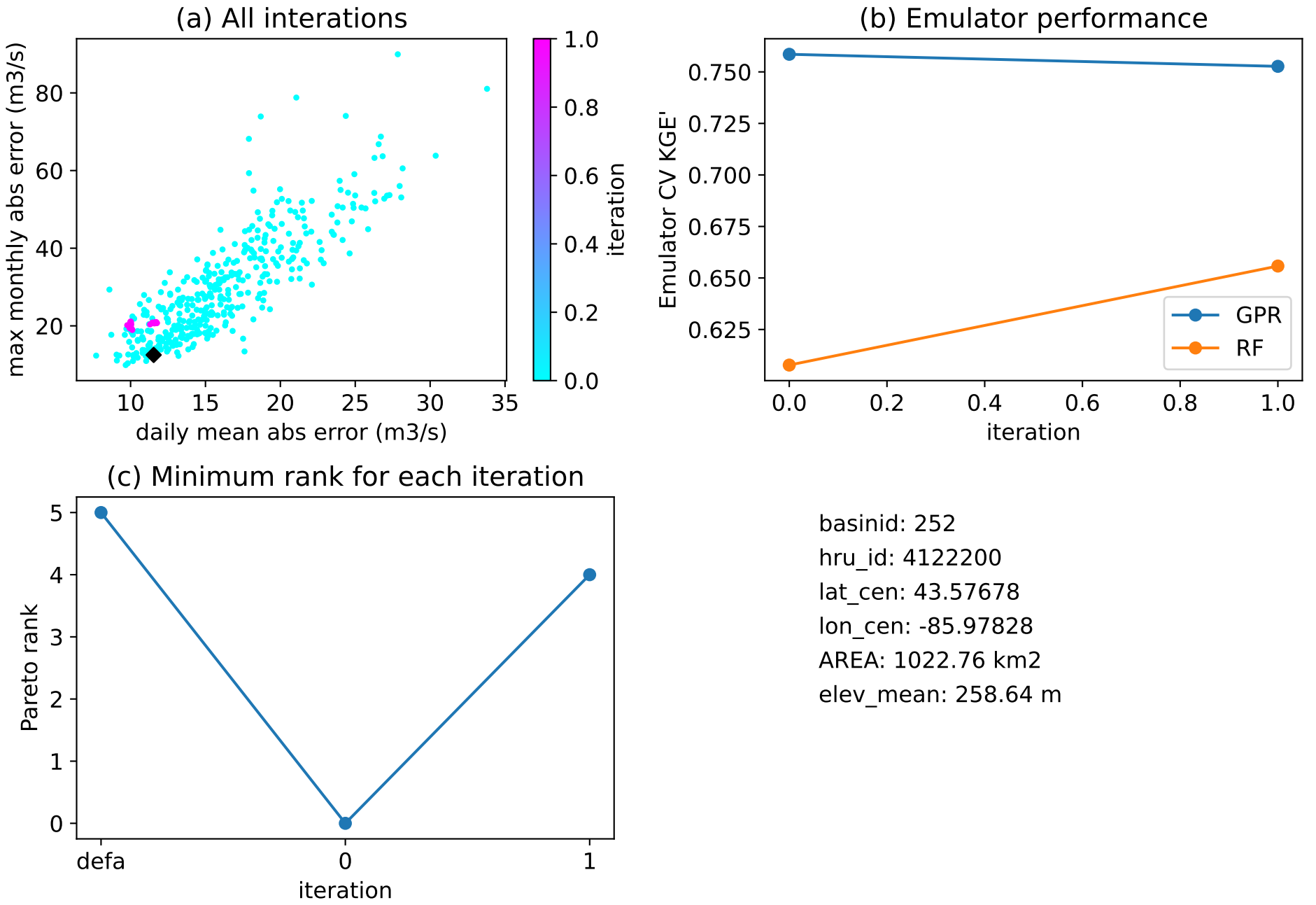


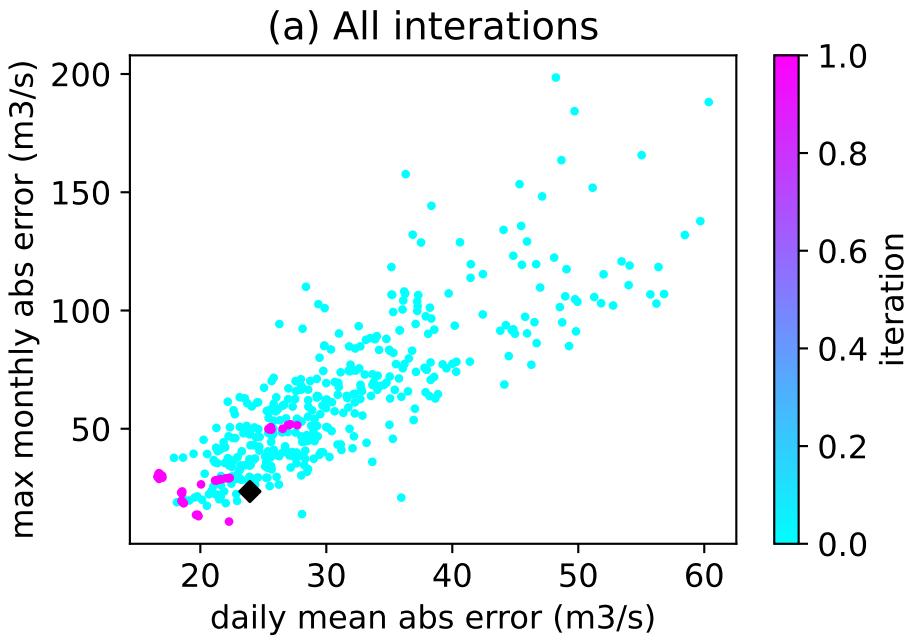


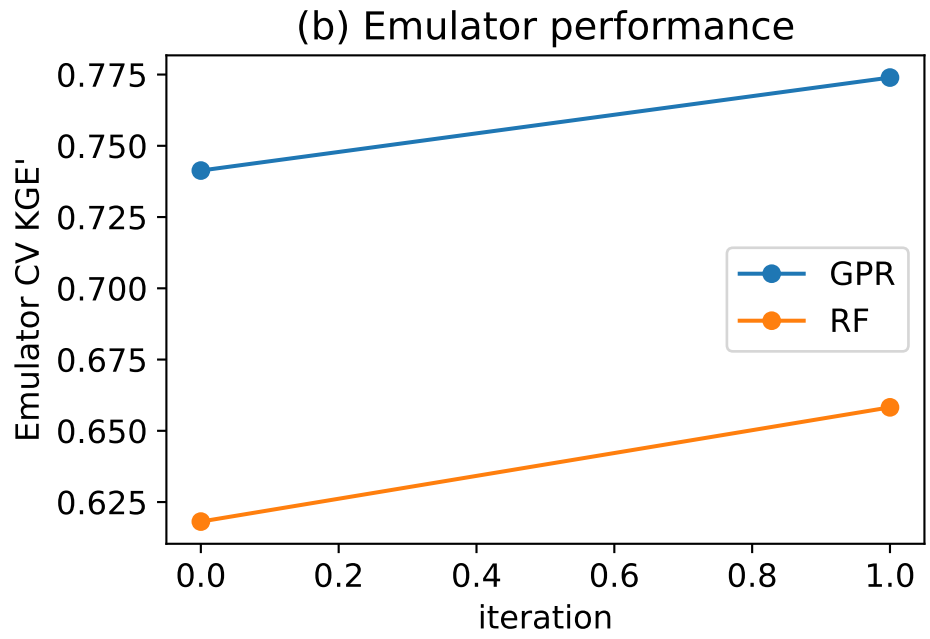
basinid: 249
hru_id: 4074950
lat_cen: 45.44013
lon_cen: -88.9448
AREA: 1216.31 km2
elev_mean: 487.81 m

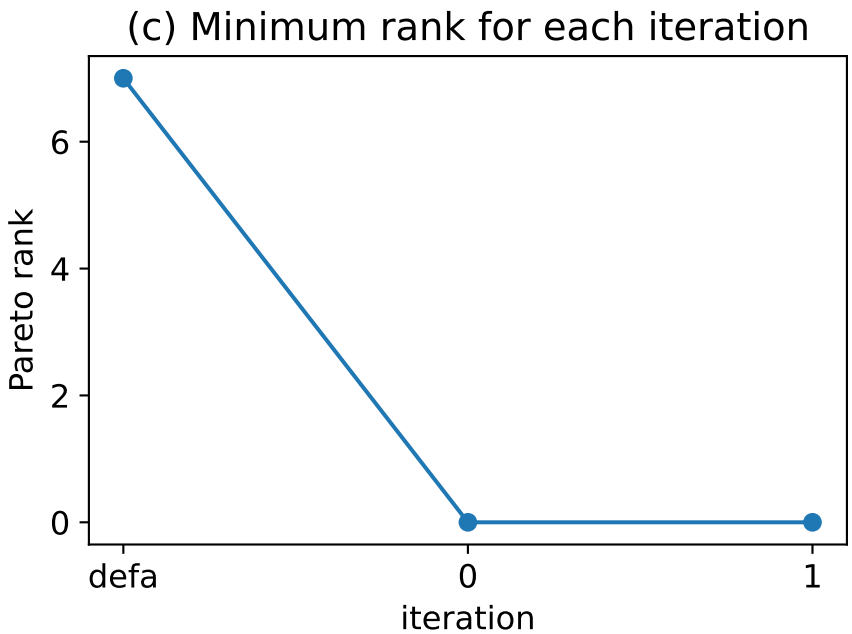

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 250
hru_id: 4105700
lat_cen: 42.42235
lon_cen: -85.34681
AREA: 100.89 km2
elev_mean: 280.52 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 251
hru_id: 4115265
lat_cen: 43.32061
lon_cen: -84.97807
AREA: 96.12 km2
elev_mean: 281.86 m

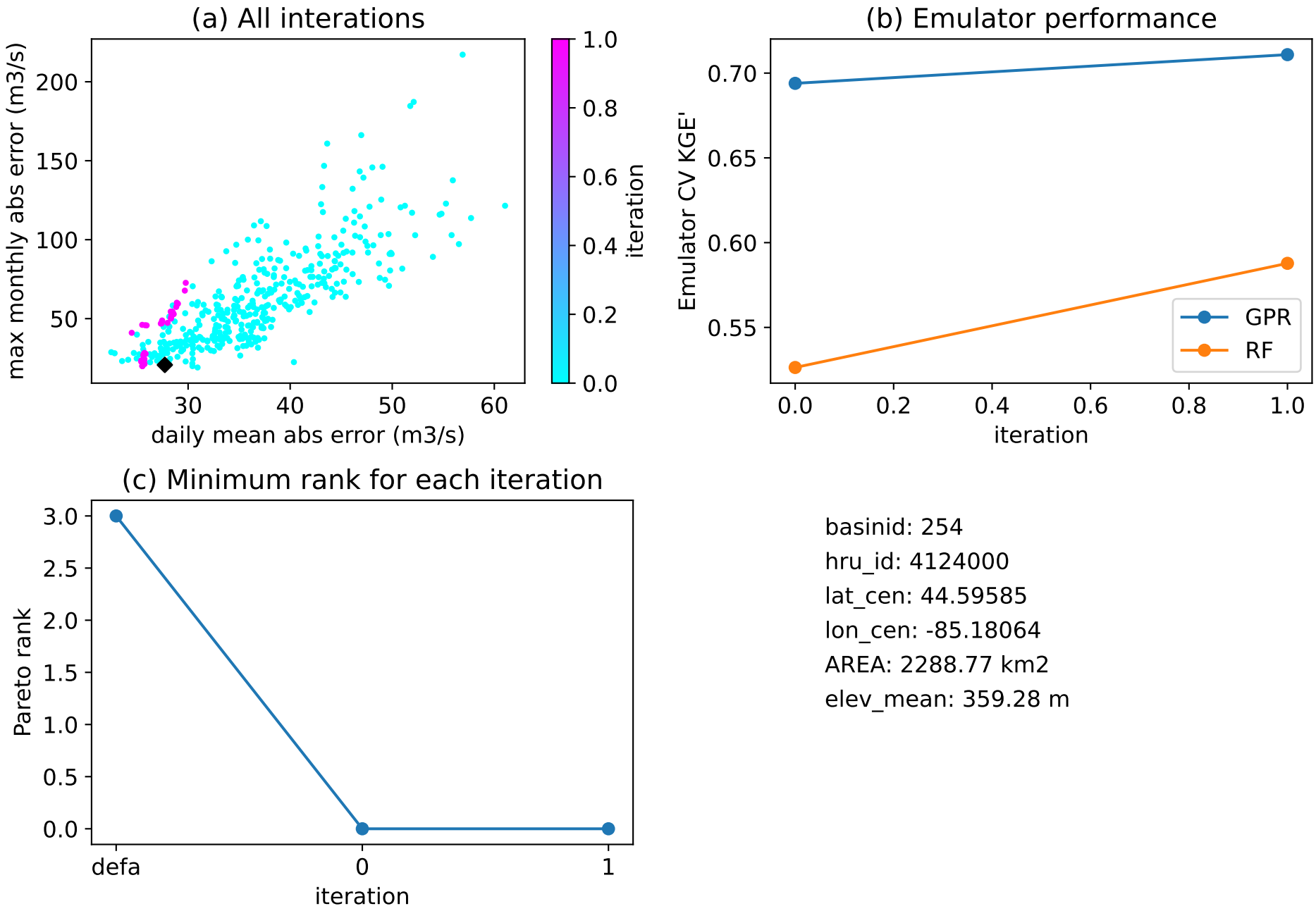

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 252
hru_id: 4122200
lat_cen: 43.57678
lon_cen: -85.97828
AREA: 1022.76 km2
elev_mean: 258.64 m

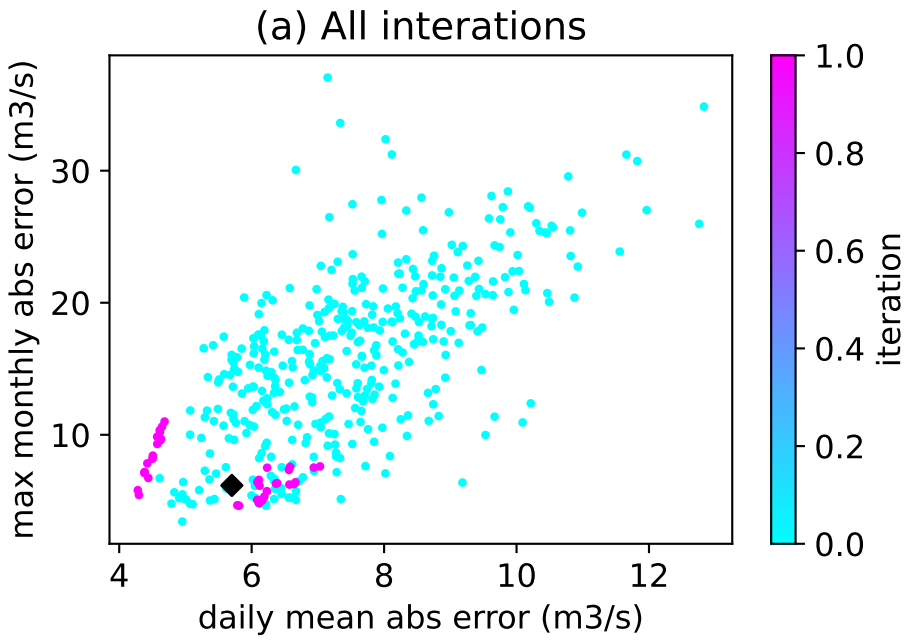


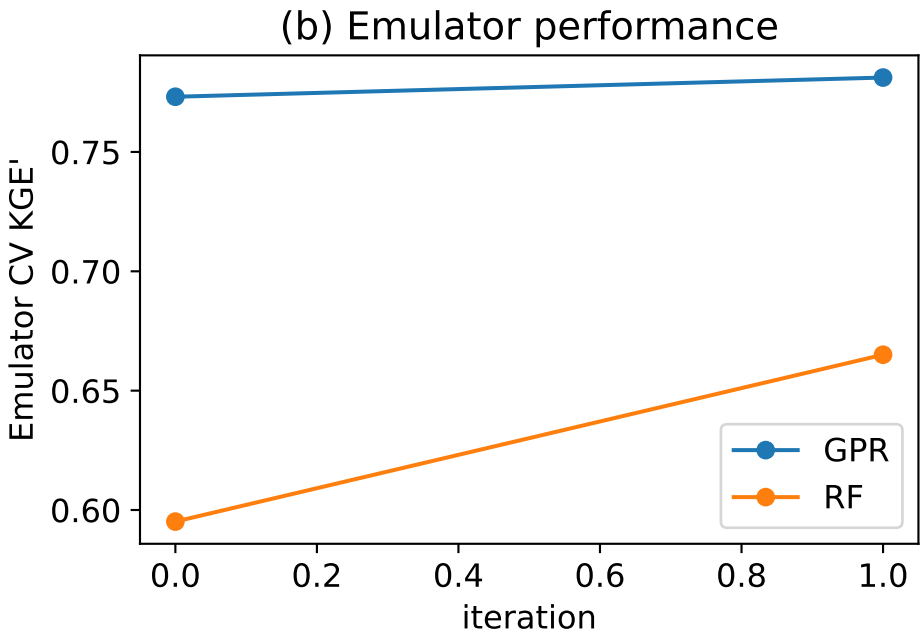


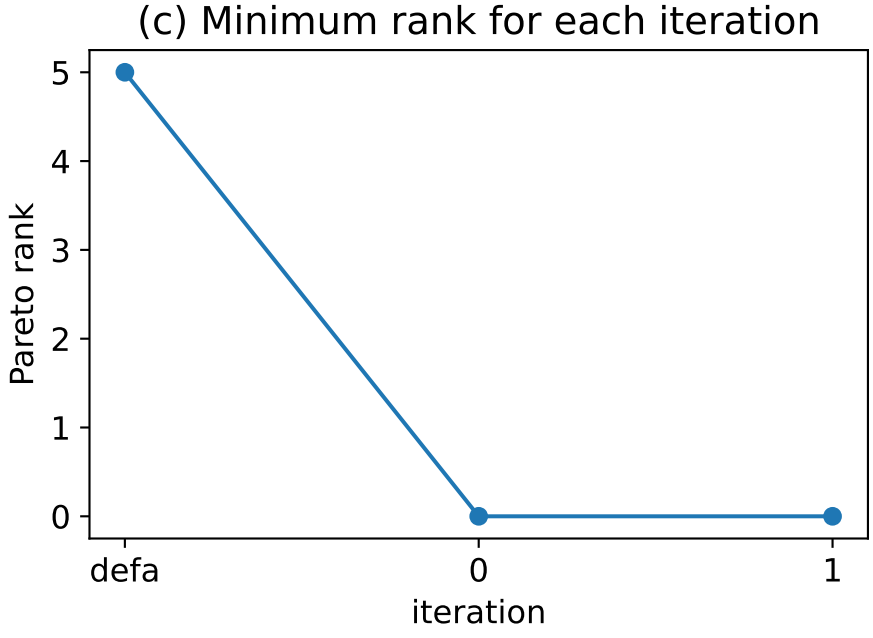


basinid: 253
hru_id: 4122500
lat_cen: 43.83757
lon_cen: -85.90229
AREA: 1800.67 km2
elev_mean: 274.29 m

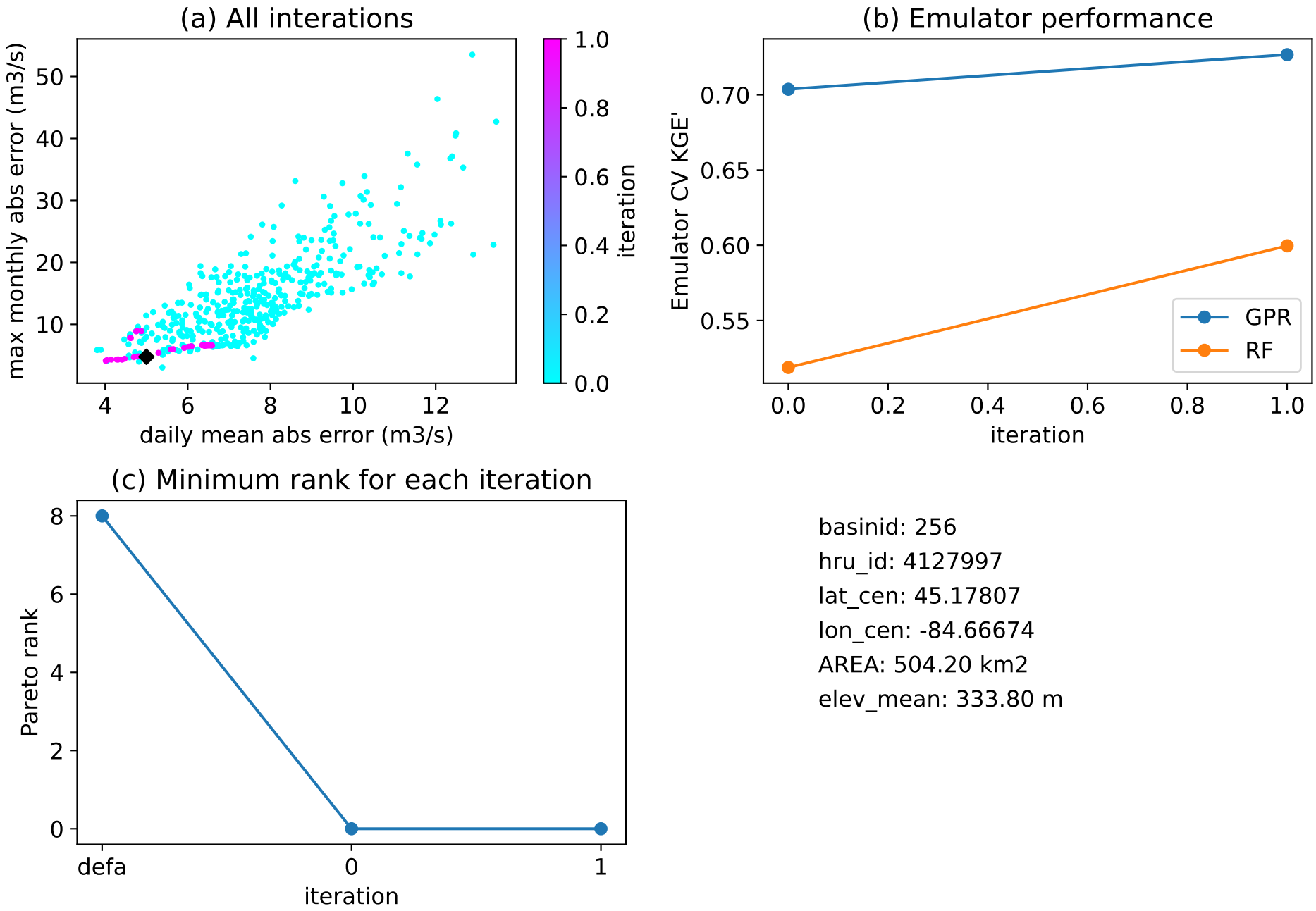

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 254
hru_id: 4124000
lat_cen: 44.59585
lon_cen: -85.18064
AREA: 2288.77 km2
elev_mean: 359.28 m

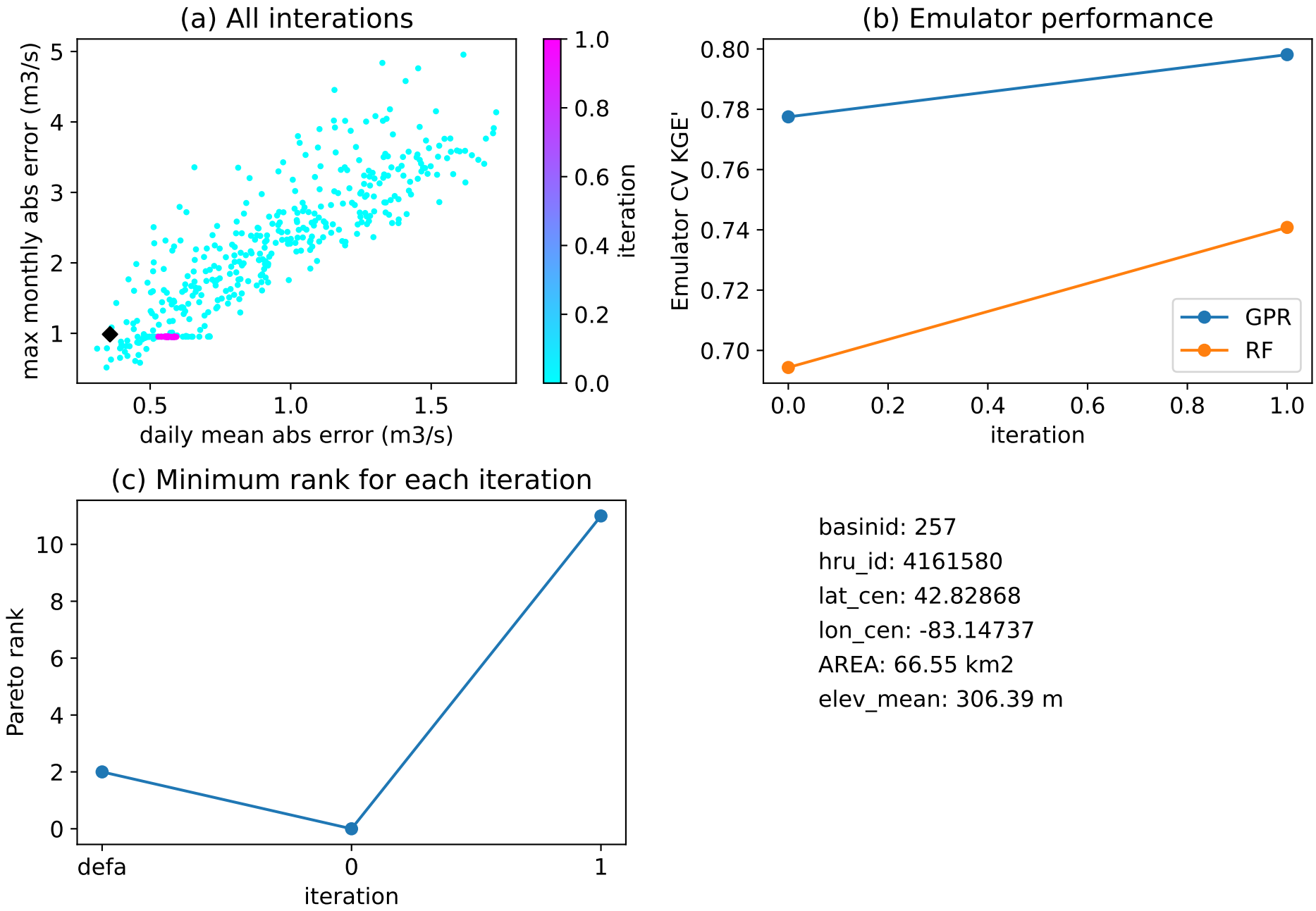


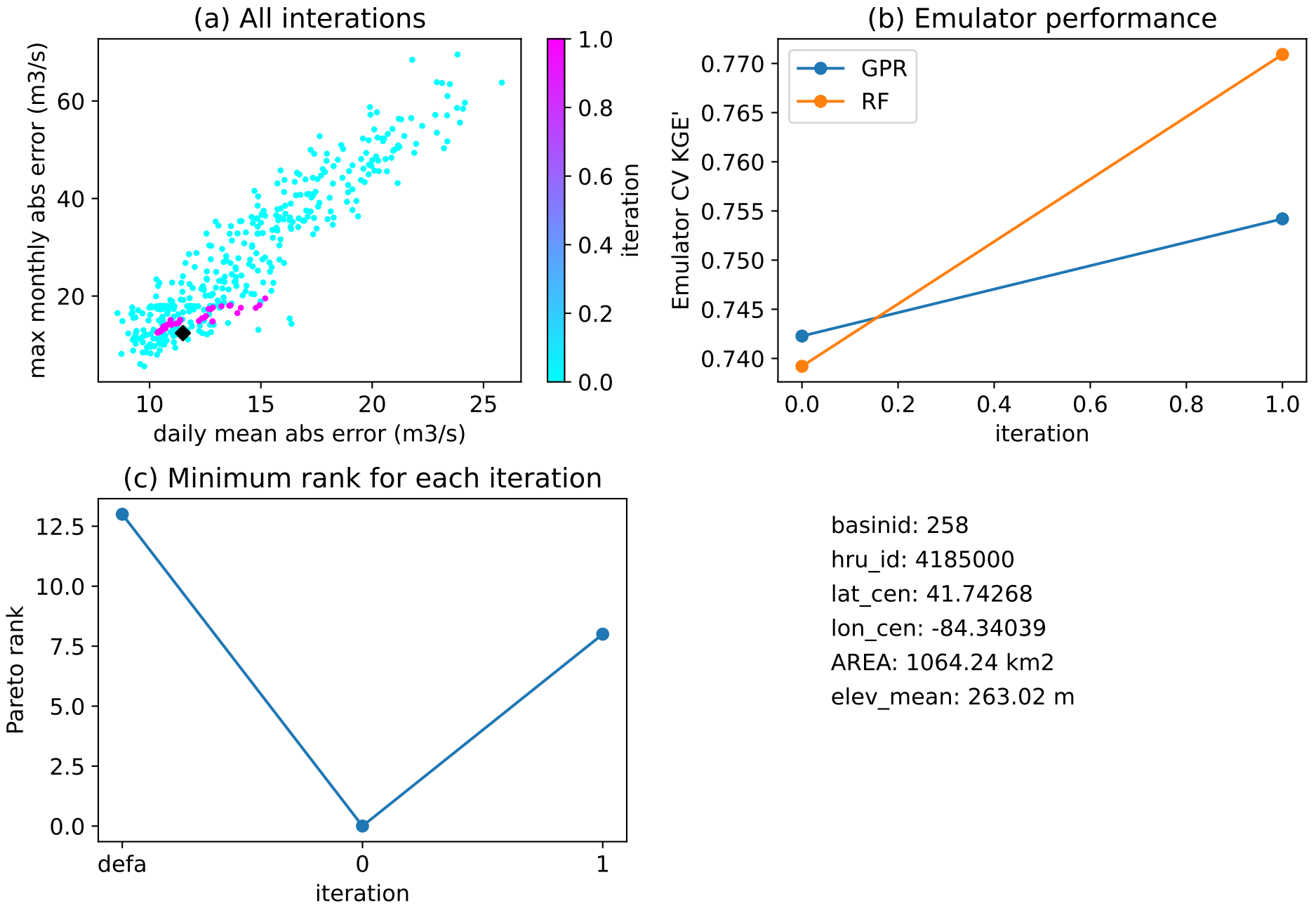


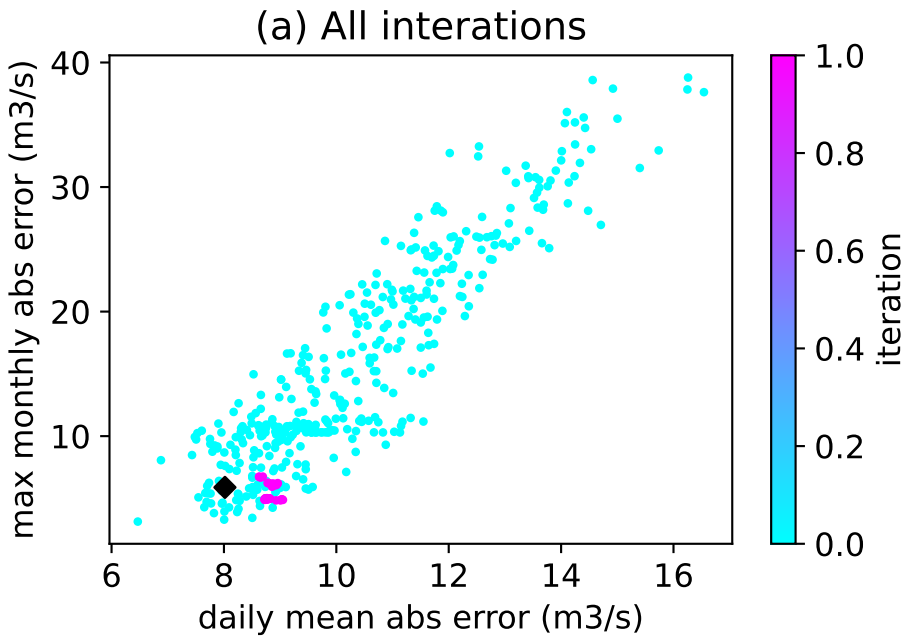


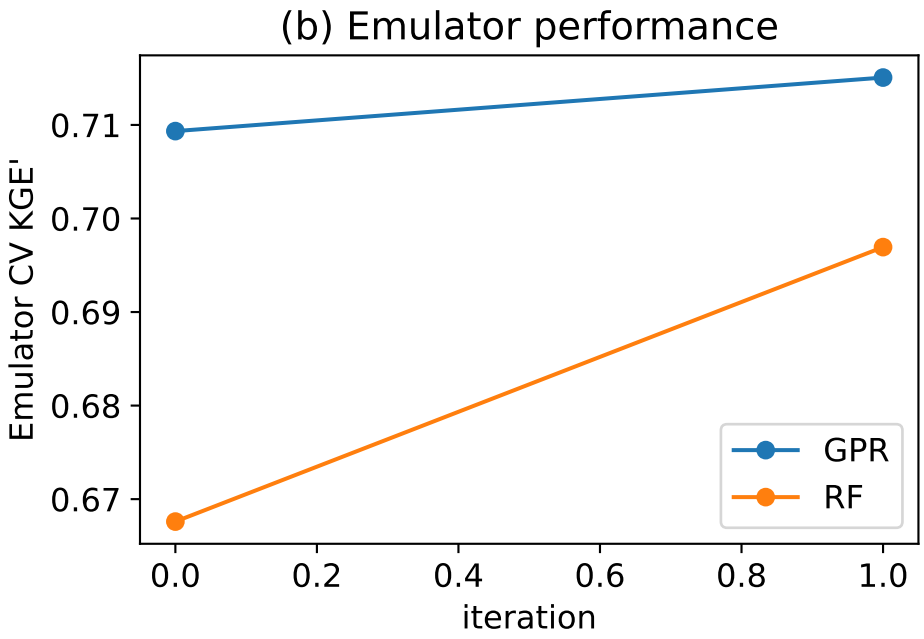
basinid: 255
hru_id: 4127918
lat_cen: 46.25035
lon_cen: -84.80878
AREA: 602.48 km2
elev_mean: 241.01 m

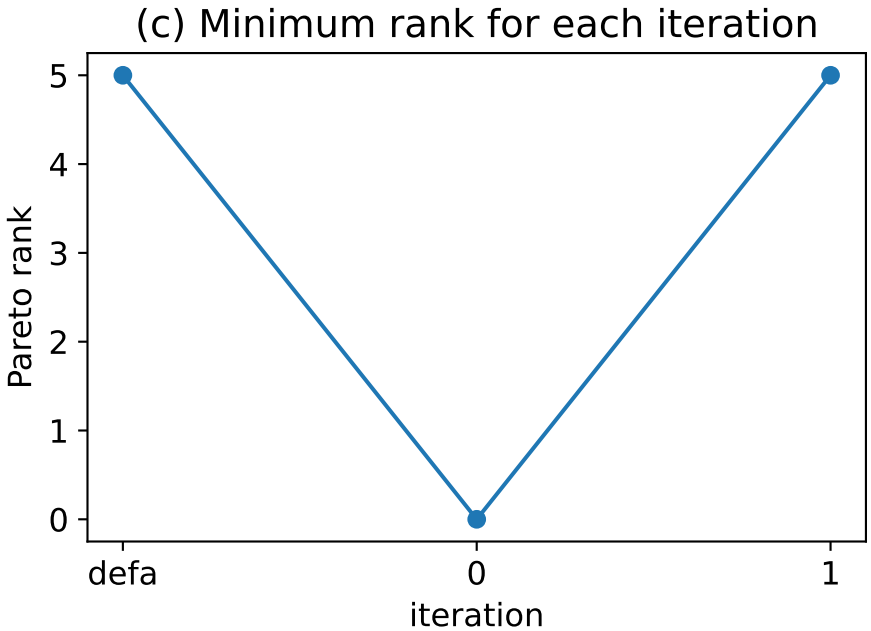

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 256
hru_id: 4127997
lat_cen: 45.17807
lon_cen: -84.66674
AREA: 504.20 km2
elev_mean: 333.80 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 257
hru_id: 4161580
lat_cen: 42.82868
lon_cen: -83.14737
AREA: 66.55 km2
elev_mean: 306.39 m

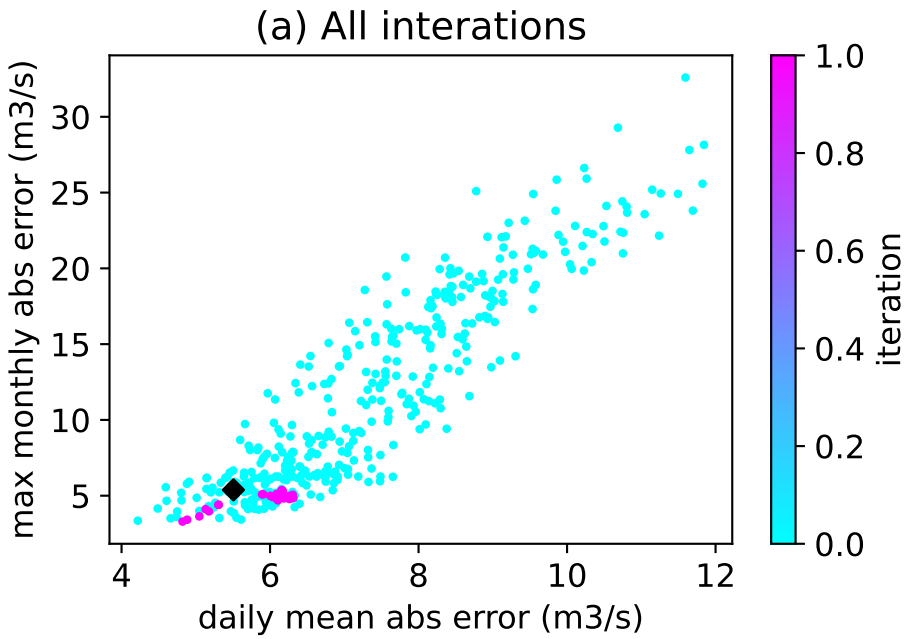

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 258
hru_id: 4185000
lat_cen: 41.74268
lon_cen: -84.34039
AREA: 1064.24 km2
elev_mean: 263.02 m

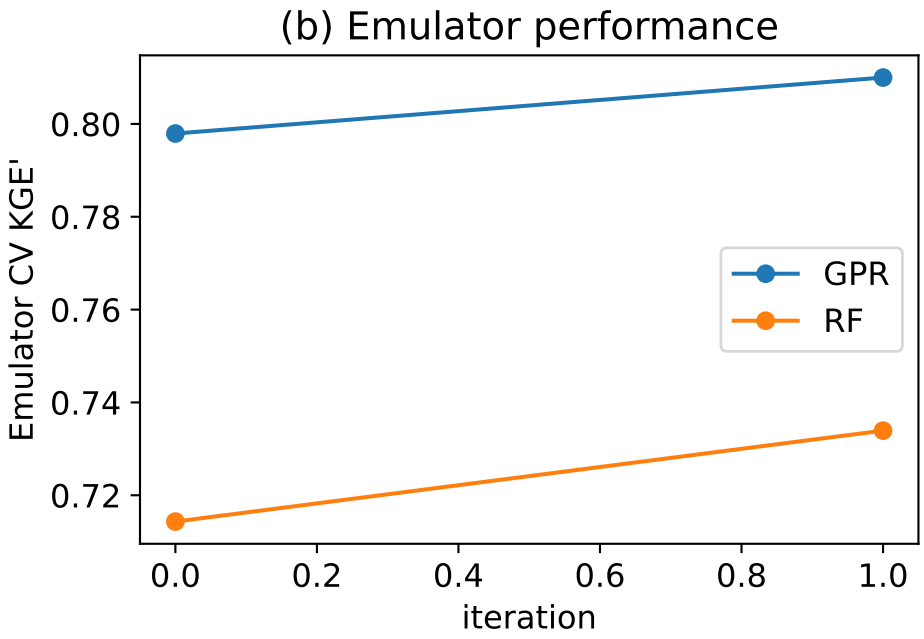


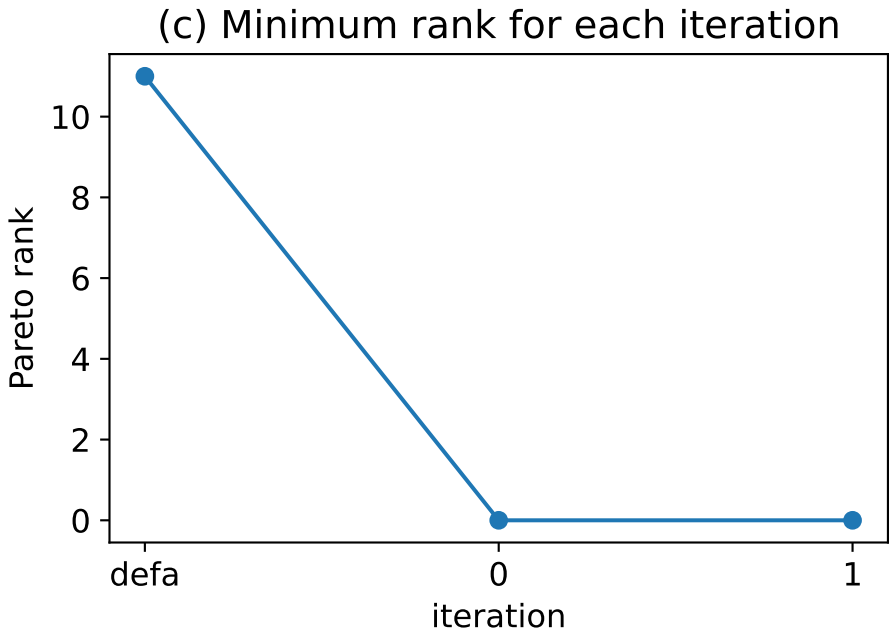




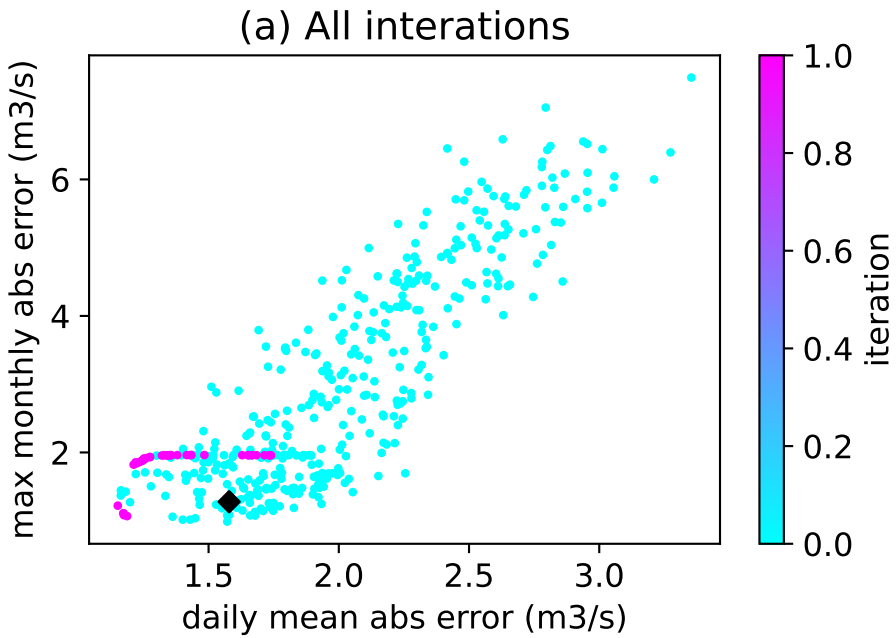
basinid: 259
hru_id: 4196800
lat_cen: 40.72635
lon_cen: -83.38813
AREA: 608.09 km2
elev_mean: 269.26 m

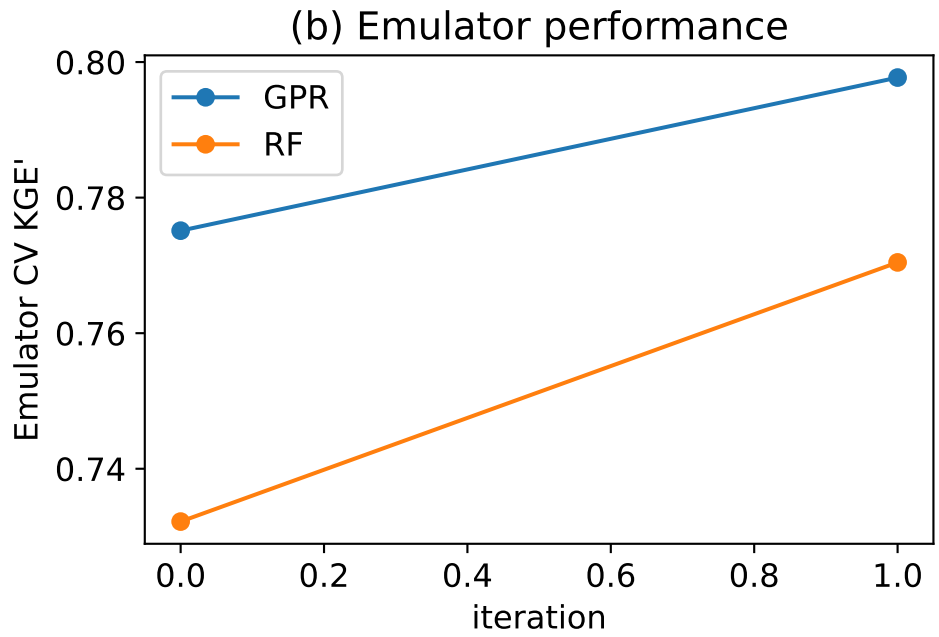


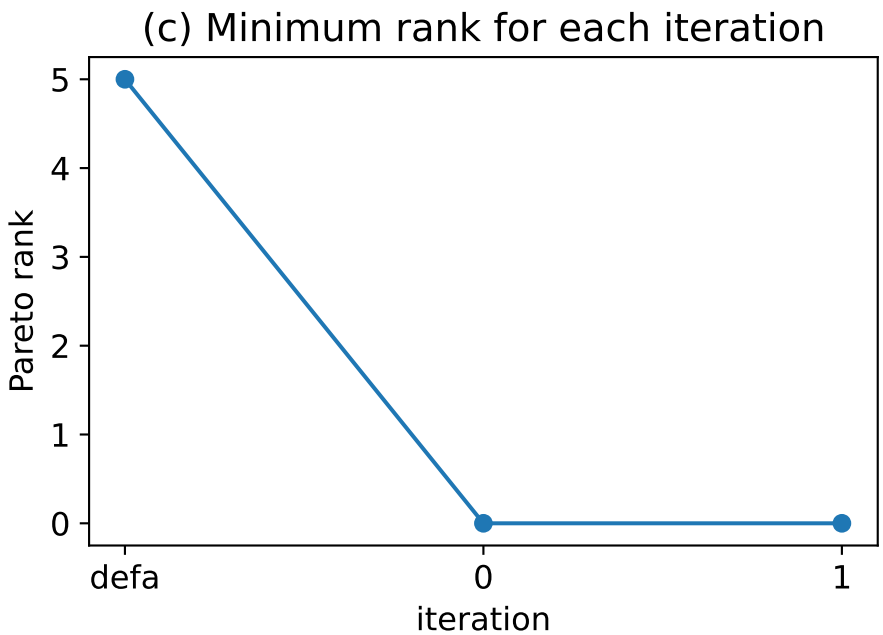




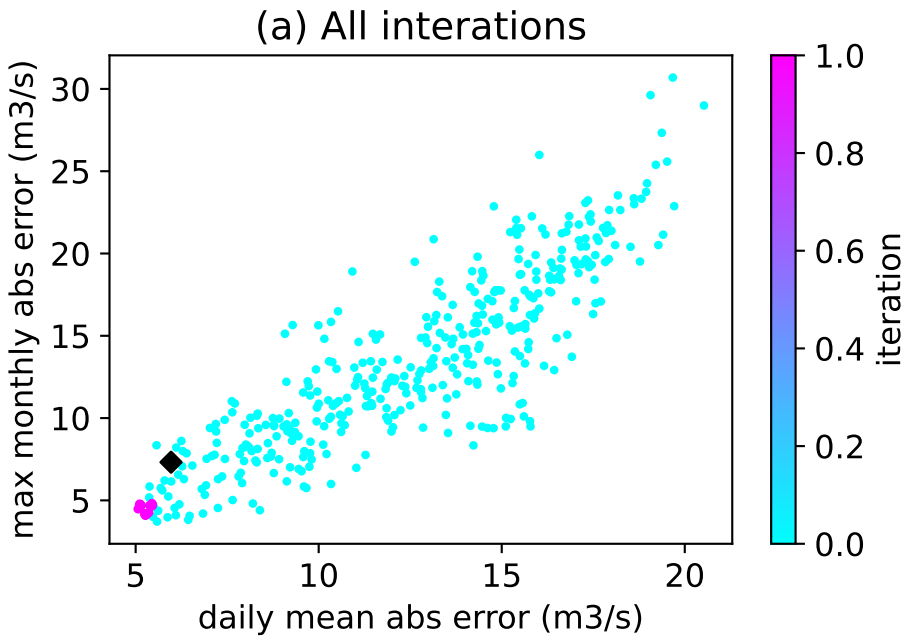
basinid: 260
hru_id: 4197100
lat_cen: 41.00882
lon_cen: -82.89848
AREA: 388.91 km2
elev_mean: 289.15 m

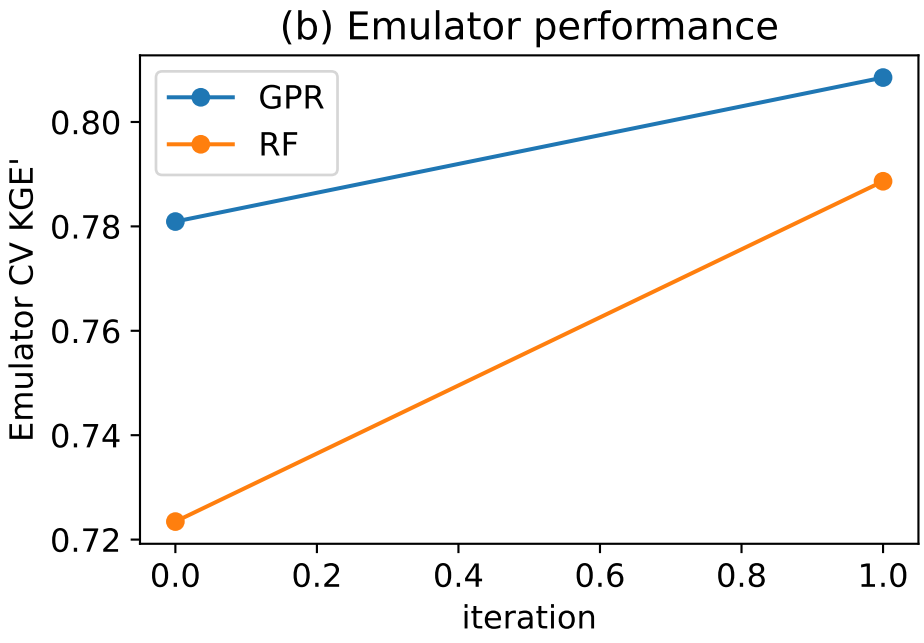


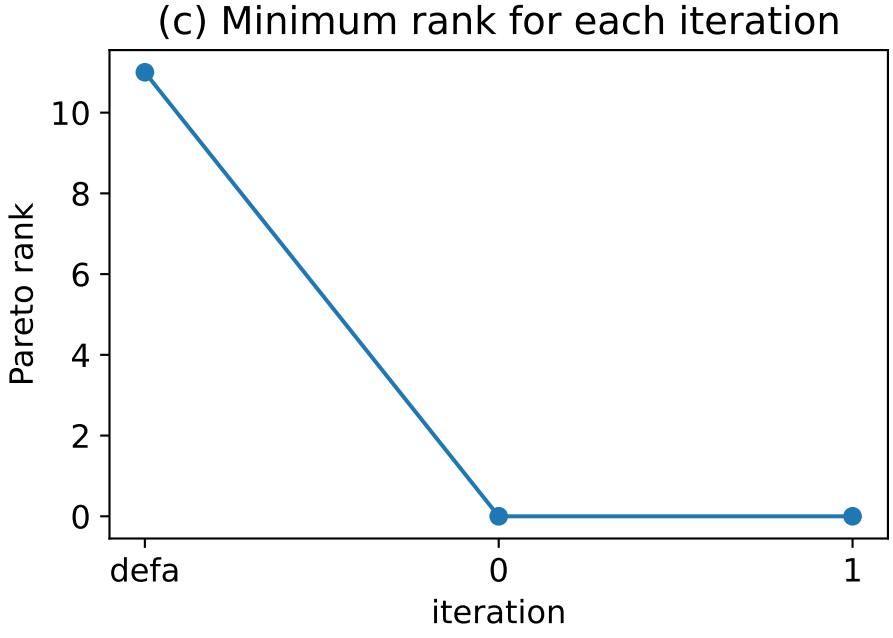




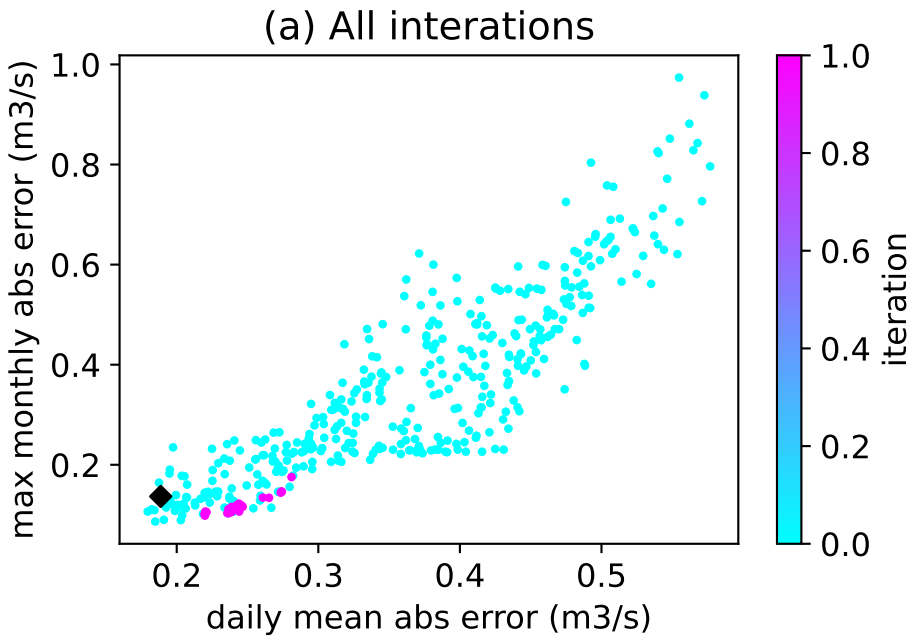
basinid: 261
hru_id: 4197170
lat_cen: 41.09424
lon_cen: -83.03923
AREA: 95.97 km2
elev_mean: 262.32 m

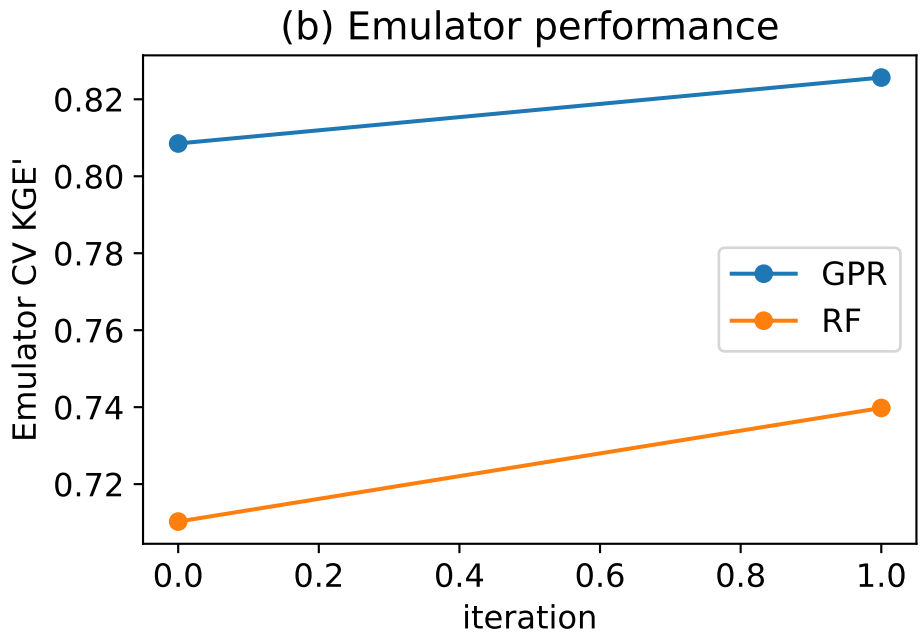


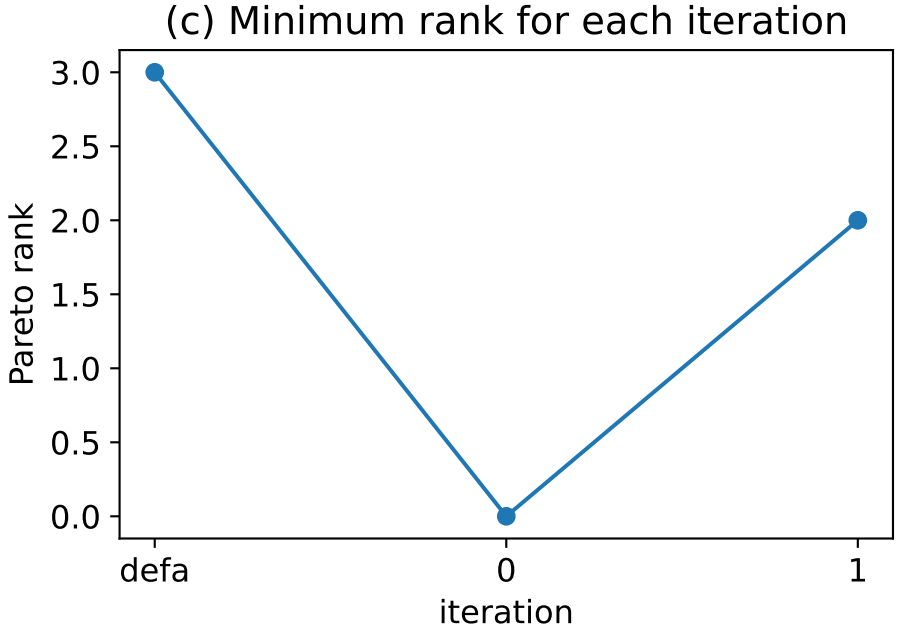




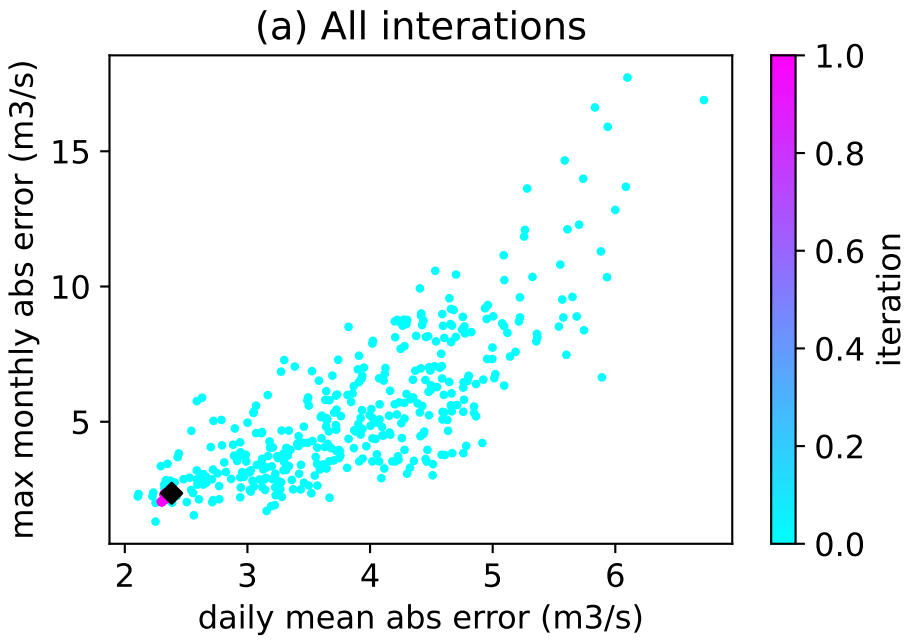
basinid: 262
hru_id: 4213000
lat_cen: 41.82698
lon_cen: -80.42422
AREA: 466.14 km2
elev_mean: 303.88 m

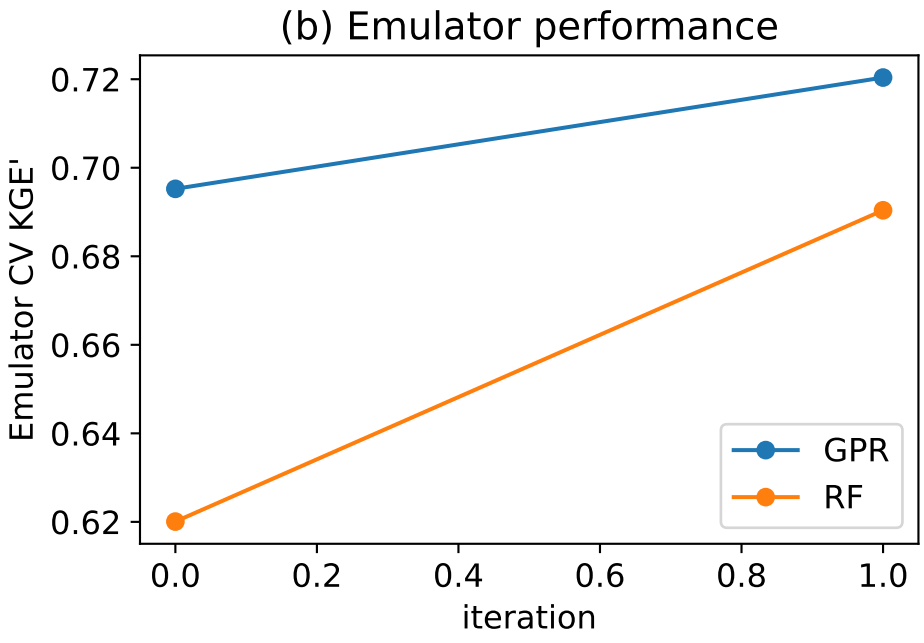


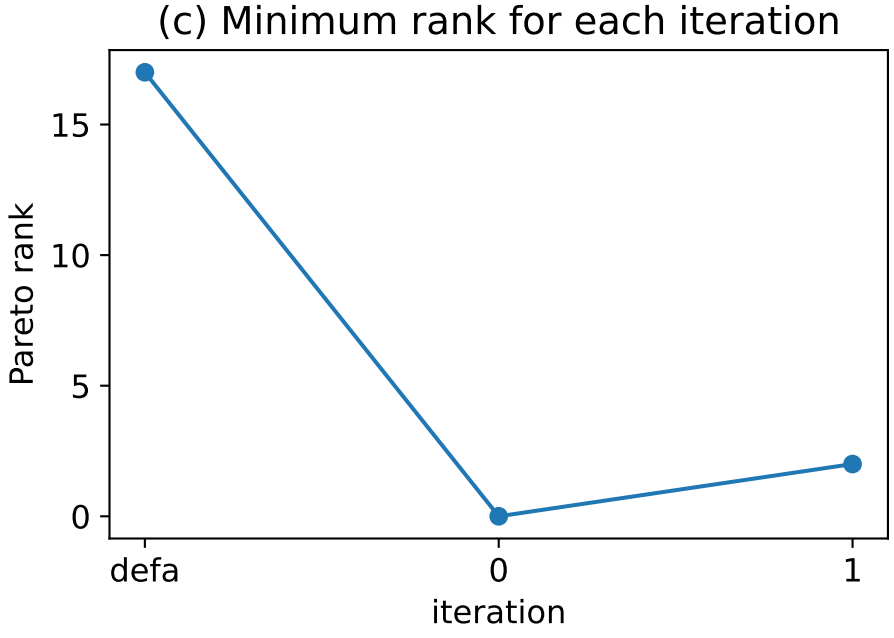




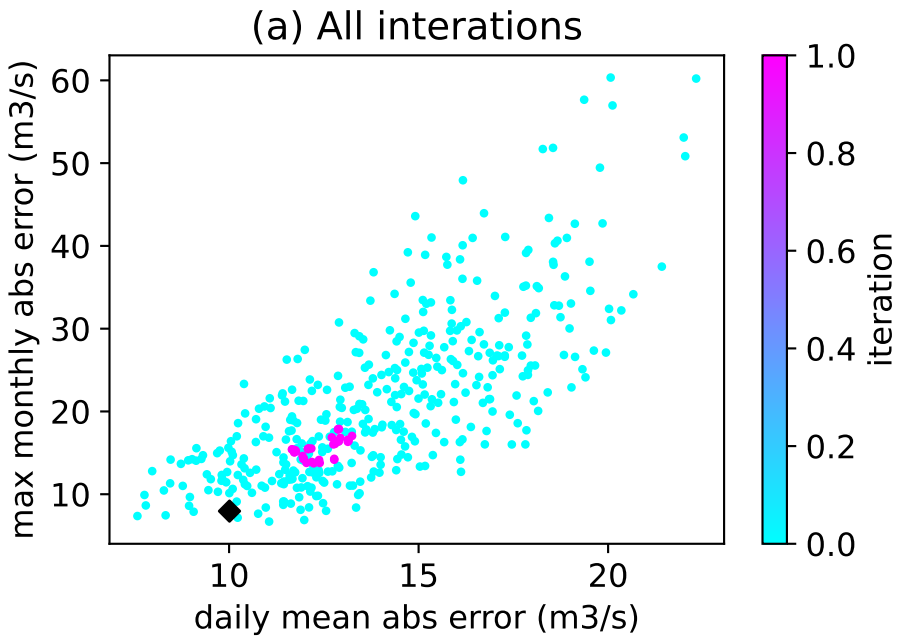
basinid: 263
hru_id: 4213075
lat_cen: 42.00196
lon_cen: -80.25421
AREA: 11.94 km2
elev_mean: 268.00 m

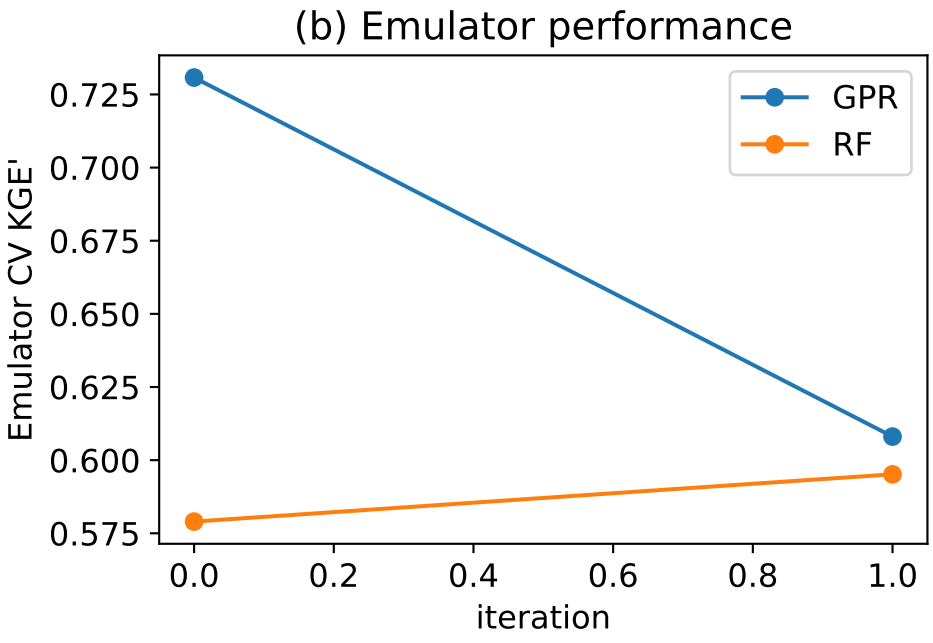


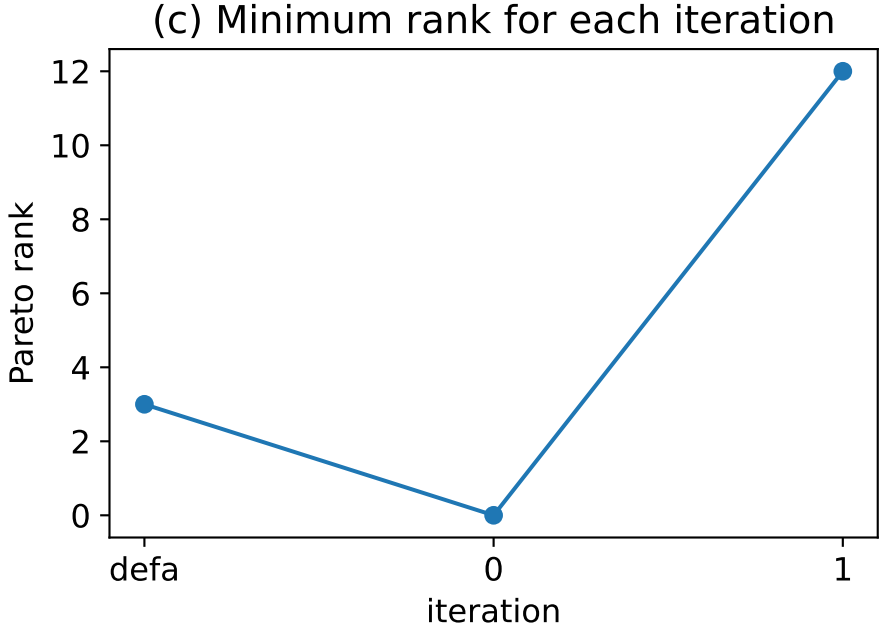




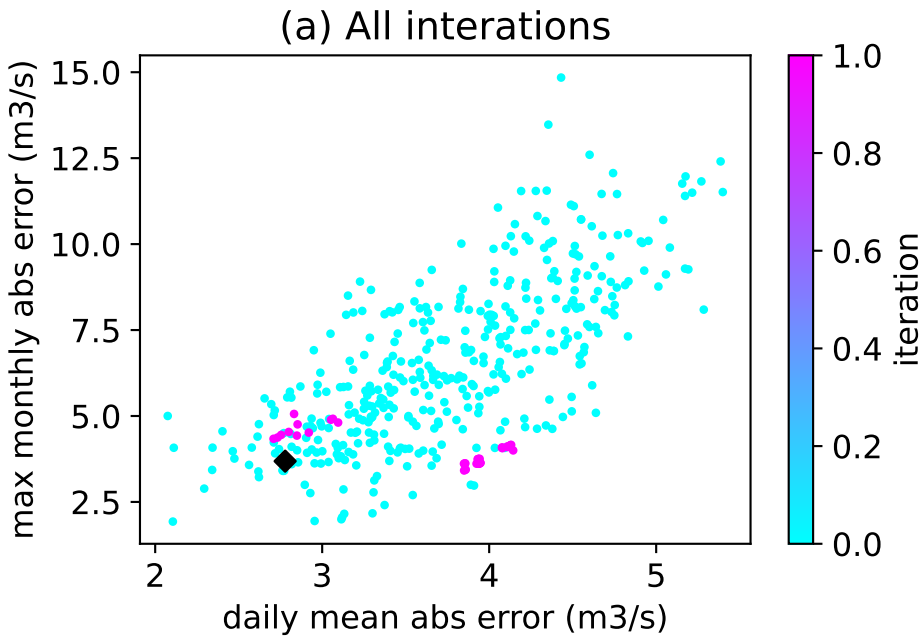
basinid: 264
hru_id: 4216418
lat_cen: 42.75192
lon_cen: -78.29011
AREA: 196.97 km2
elev_mean: 465.67 m

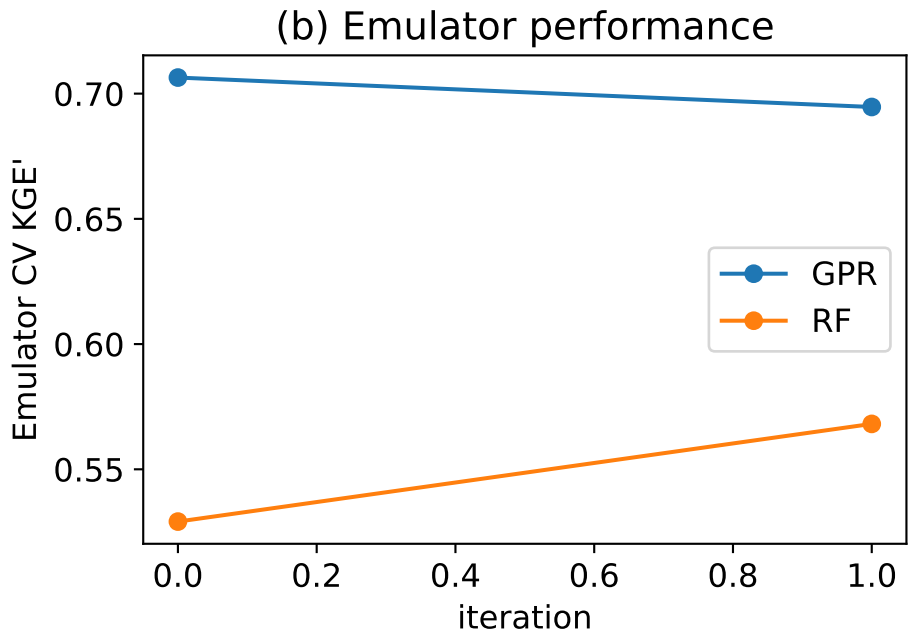


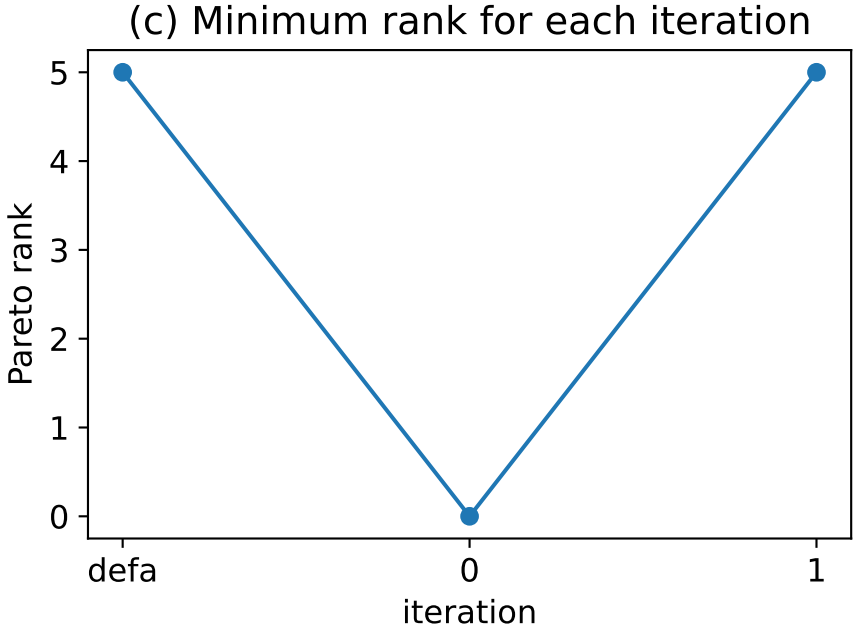




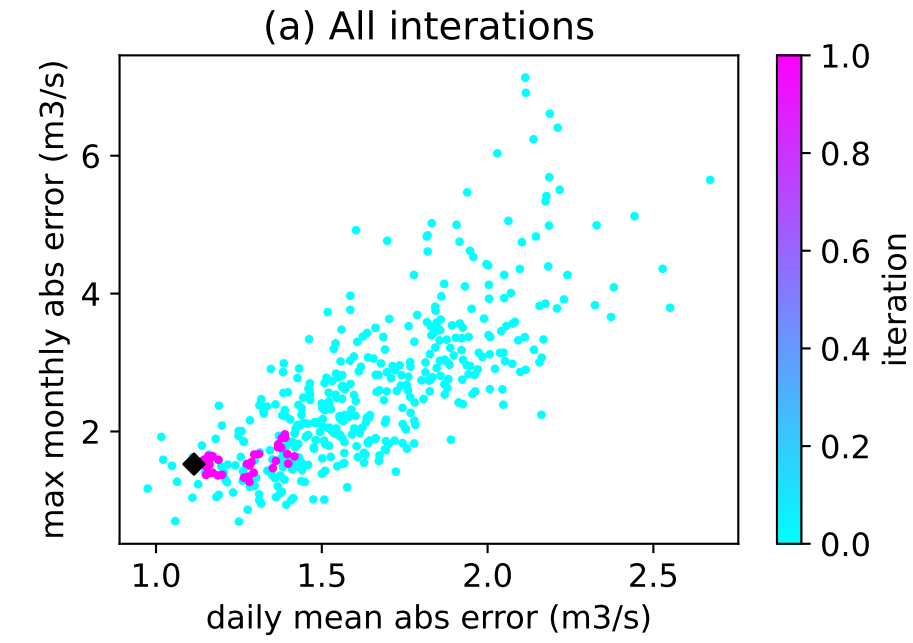
basinid: 265
hru_id: 4221000
lat_cen: 42.04271
lon_cen: -77.83314
AREA: 751.80 km2
elev_mean: 627.77 m

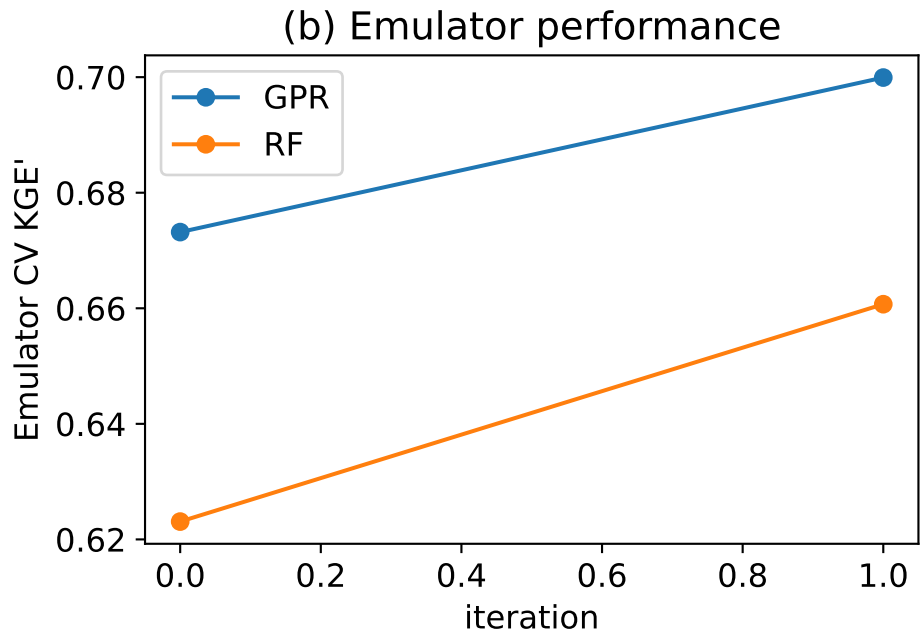


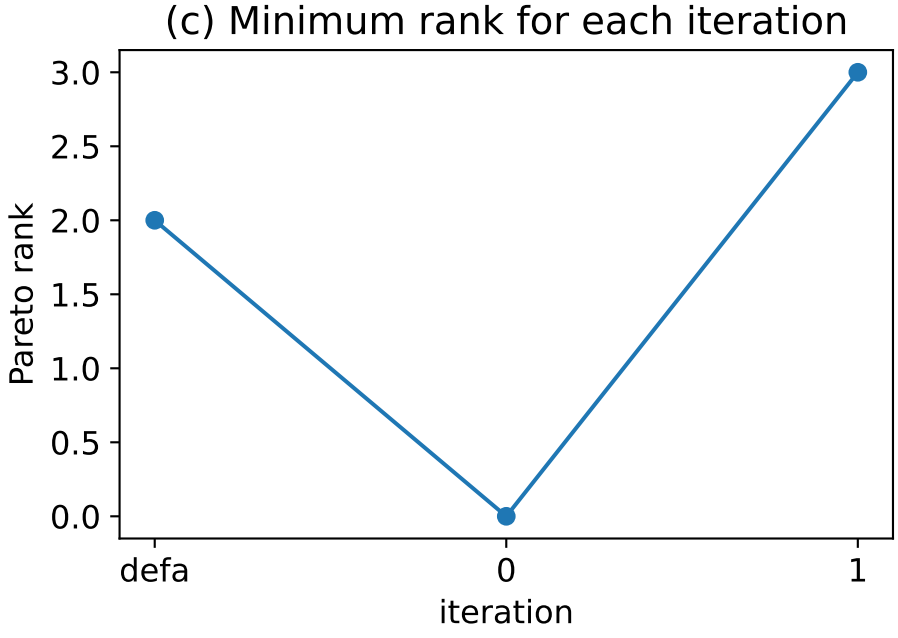




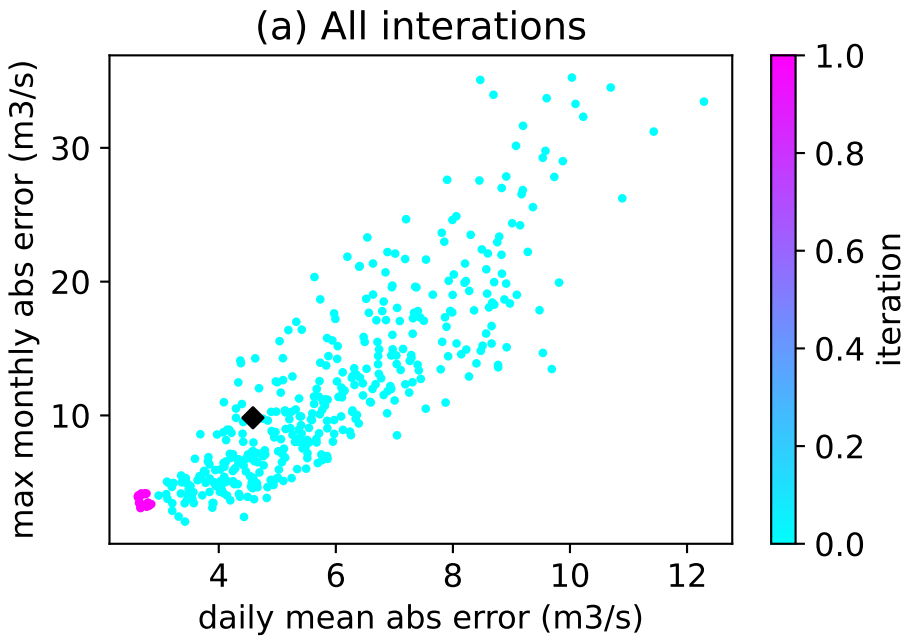
basinid: 266
hru_id: 4224775
lat_cen: 42.48247
lon_cen: -77.81241
AREA: 232.59 km2
elev_mean: 494.71 m

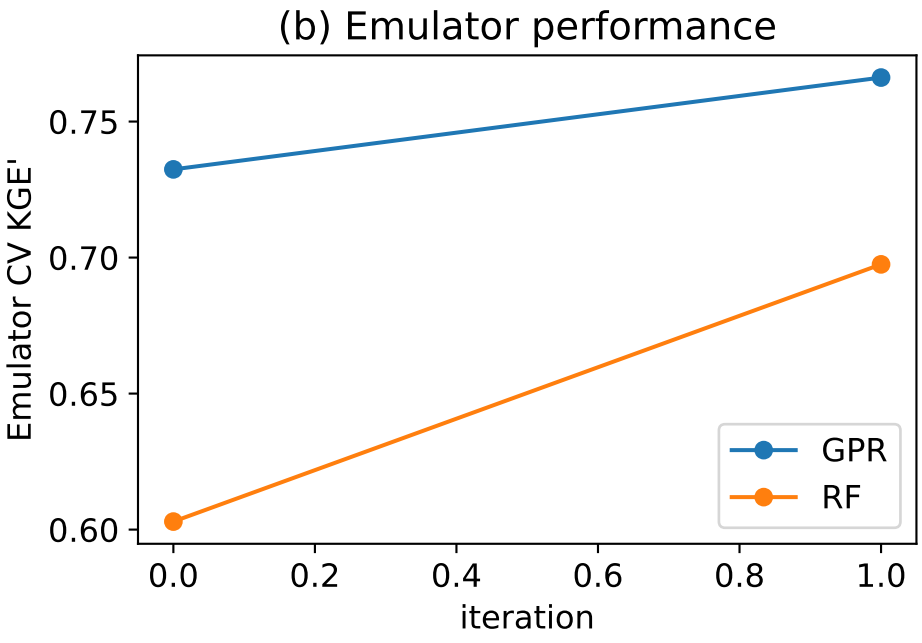


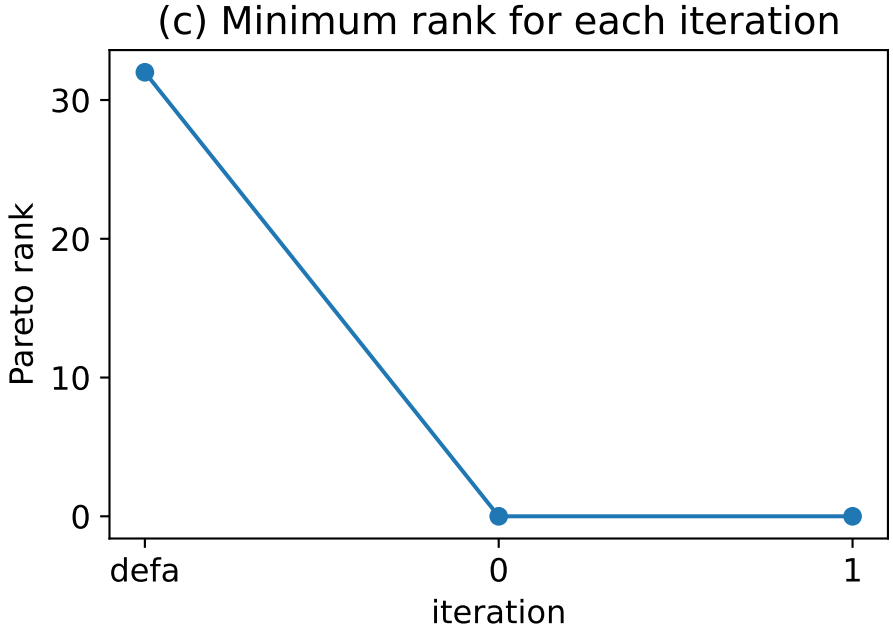




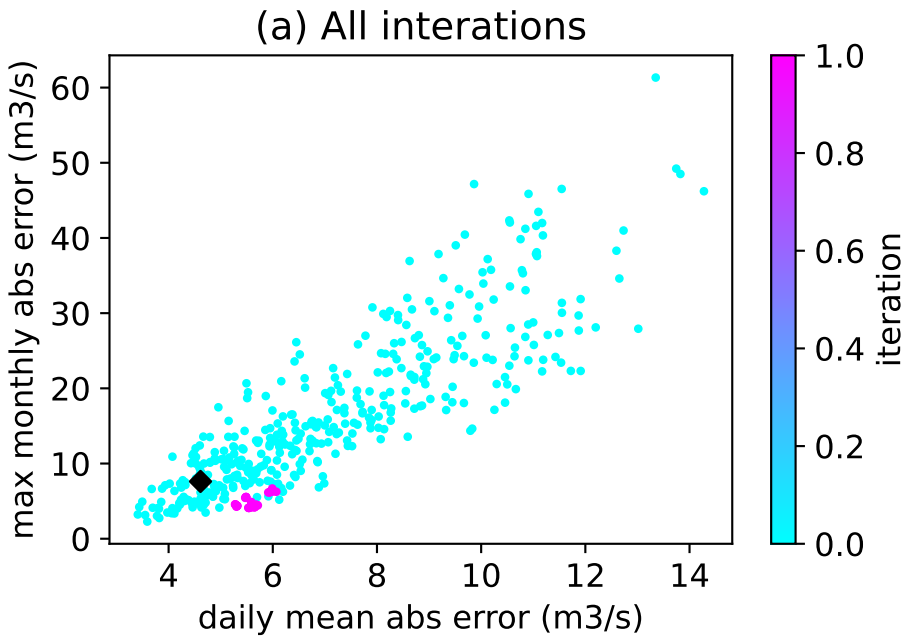
basinid: 267
hru_id: 4233000
lat_cen: 42.33949
lon_cen: -76.56091
AREA: 92.63 km2
elev_mean: 374.59 m

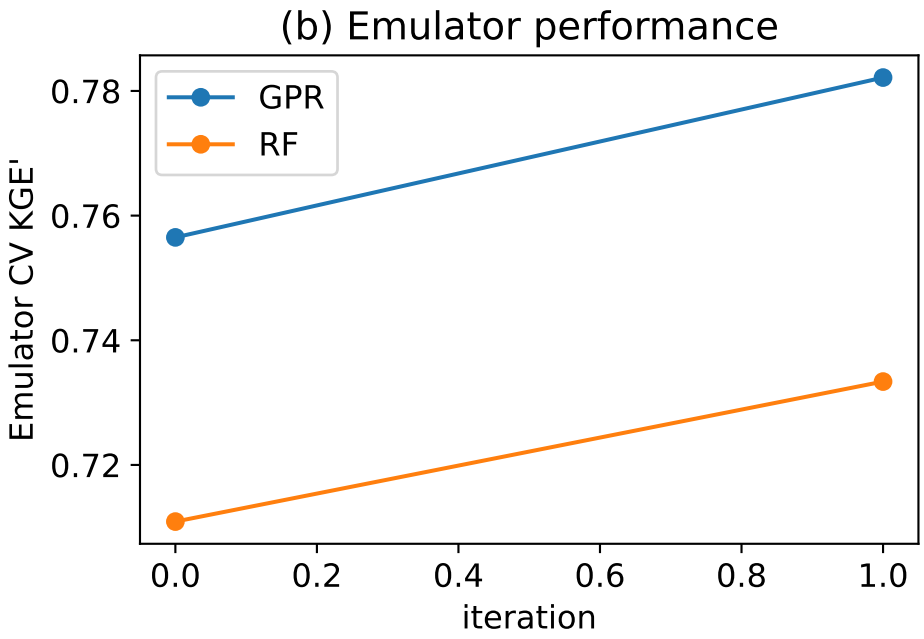


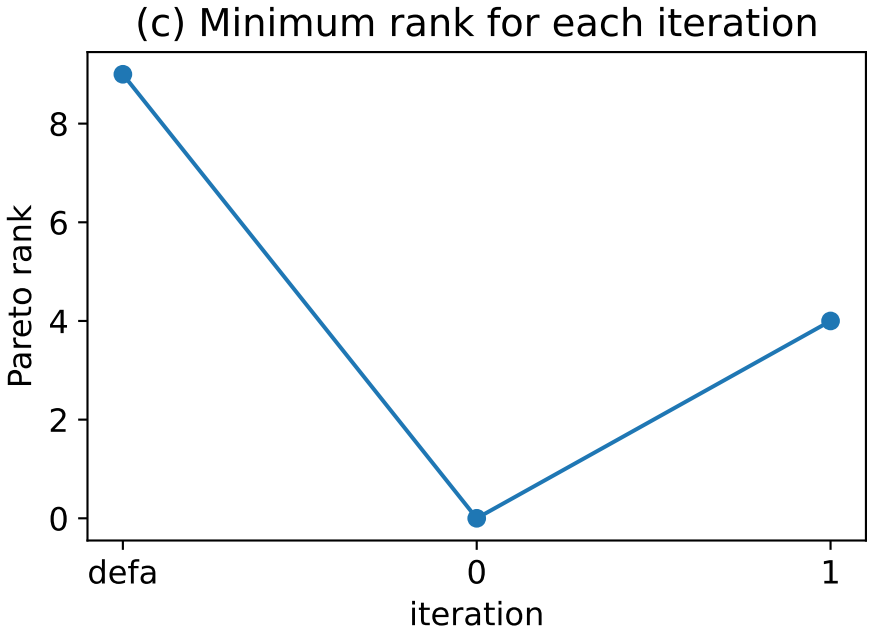




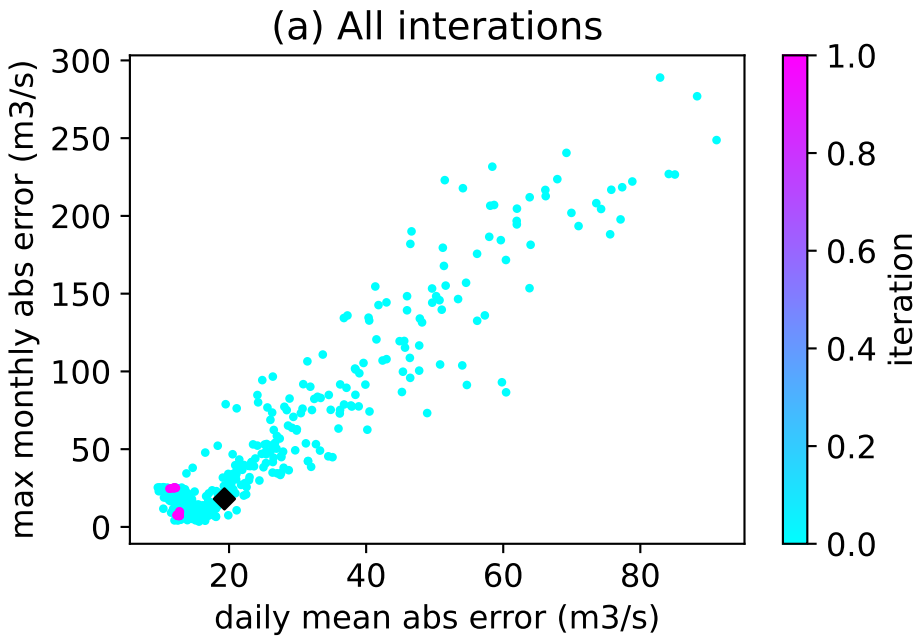
basinid: 268
hru_id: 4256000
lat_cen: 43.80078
lon_cen: -75.13987
AREA: 238.28 km2
elev_mean: 493.99 m

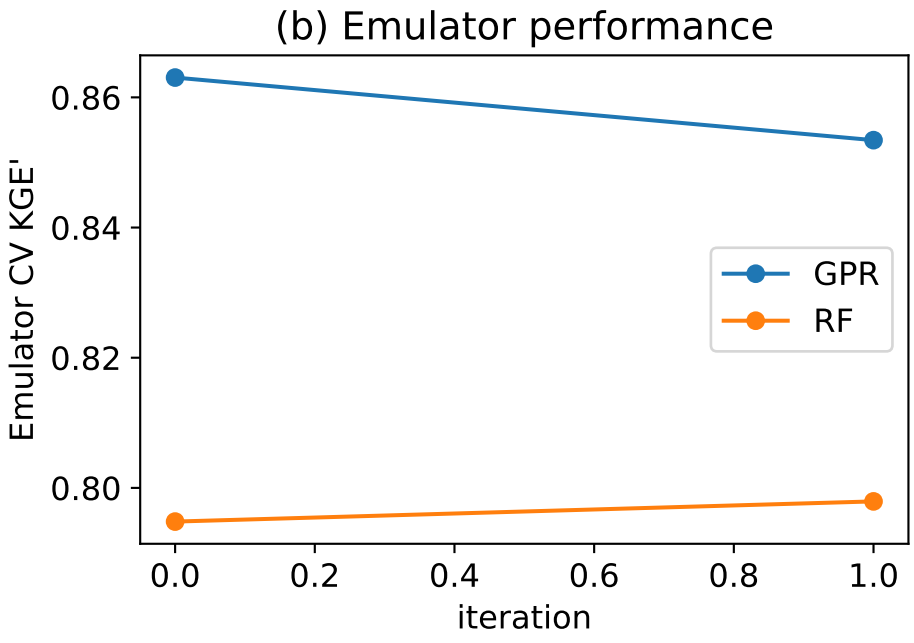


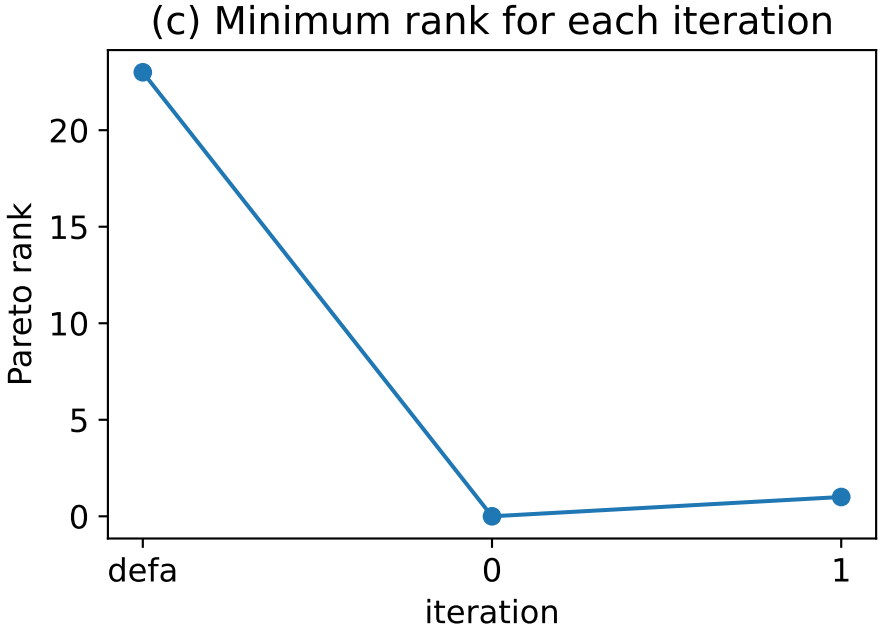




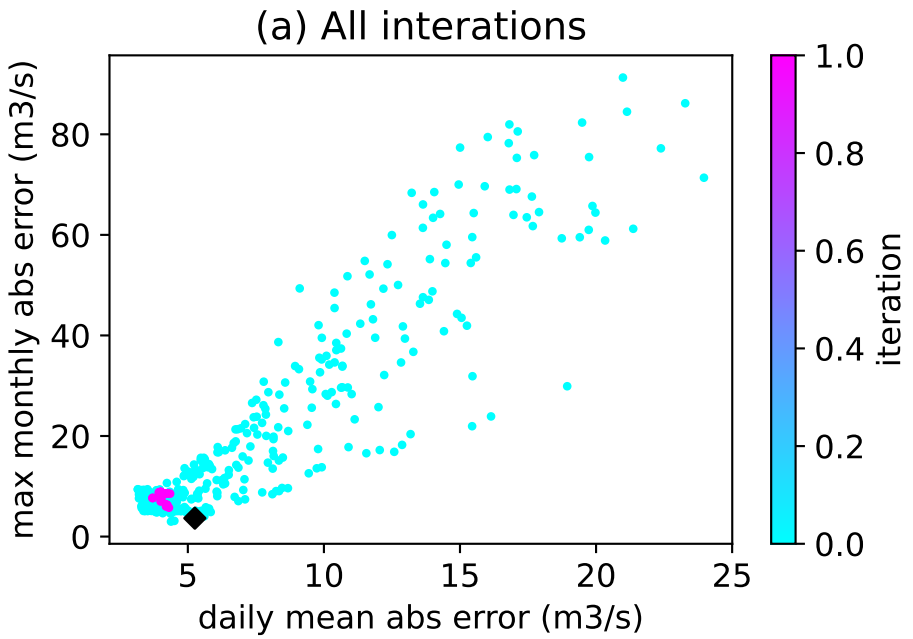
basinid: 269
hru_id: 4296000
lat_cen: 44.73579
lon_cen: -72.33451
AREA: 301.13 km2
elev_mean: 385.74 m

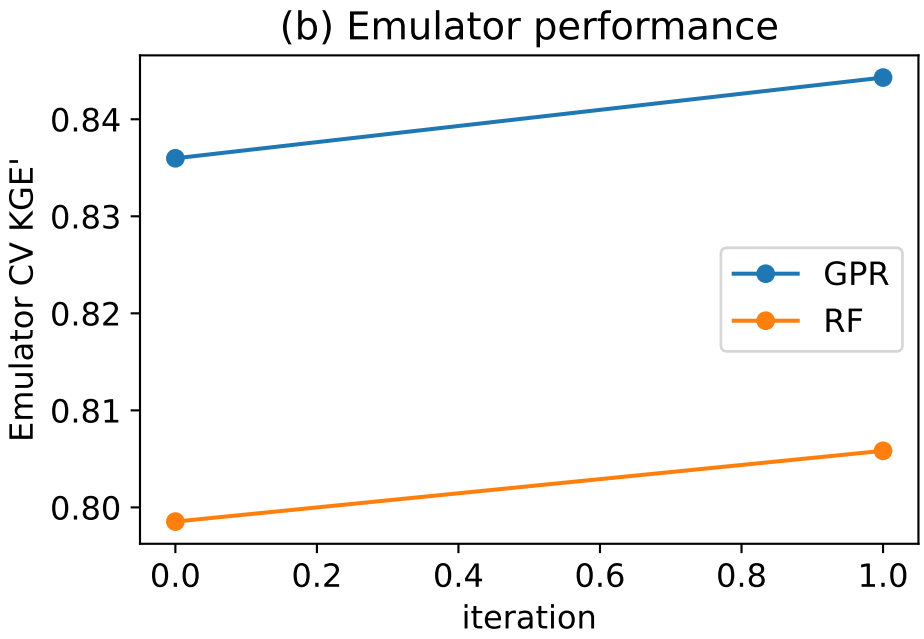


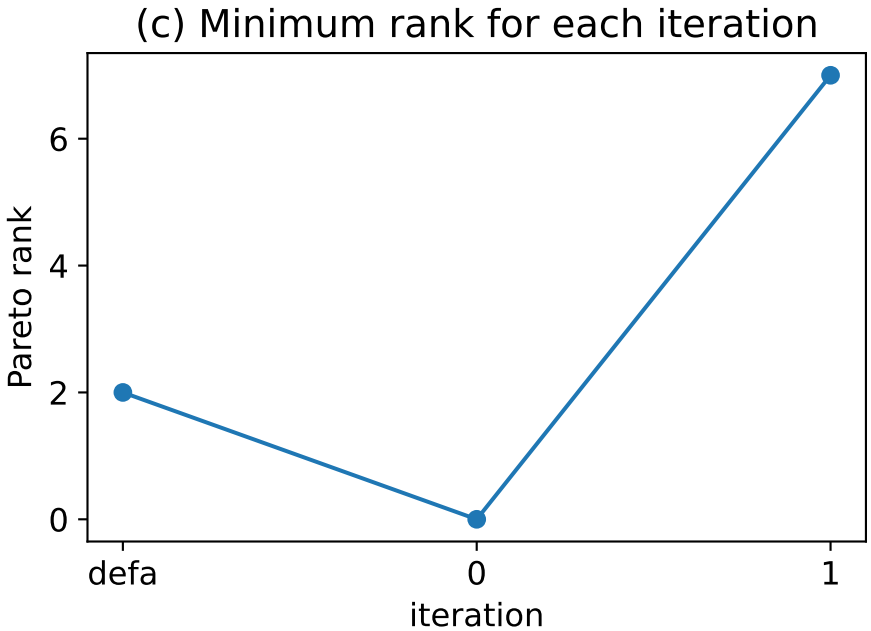




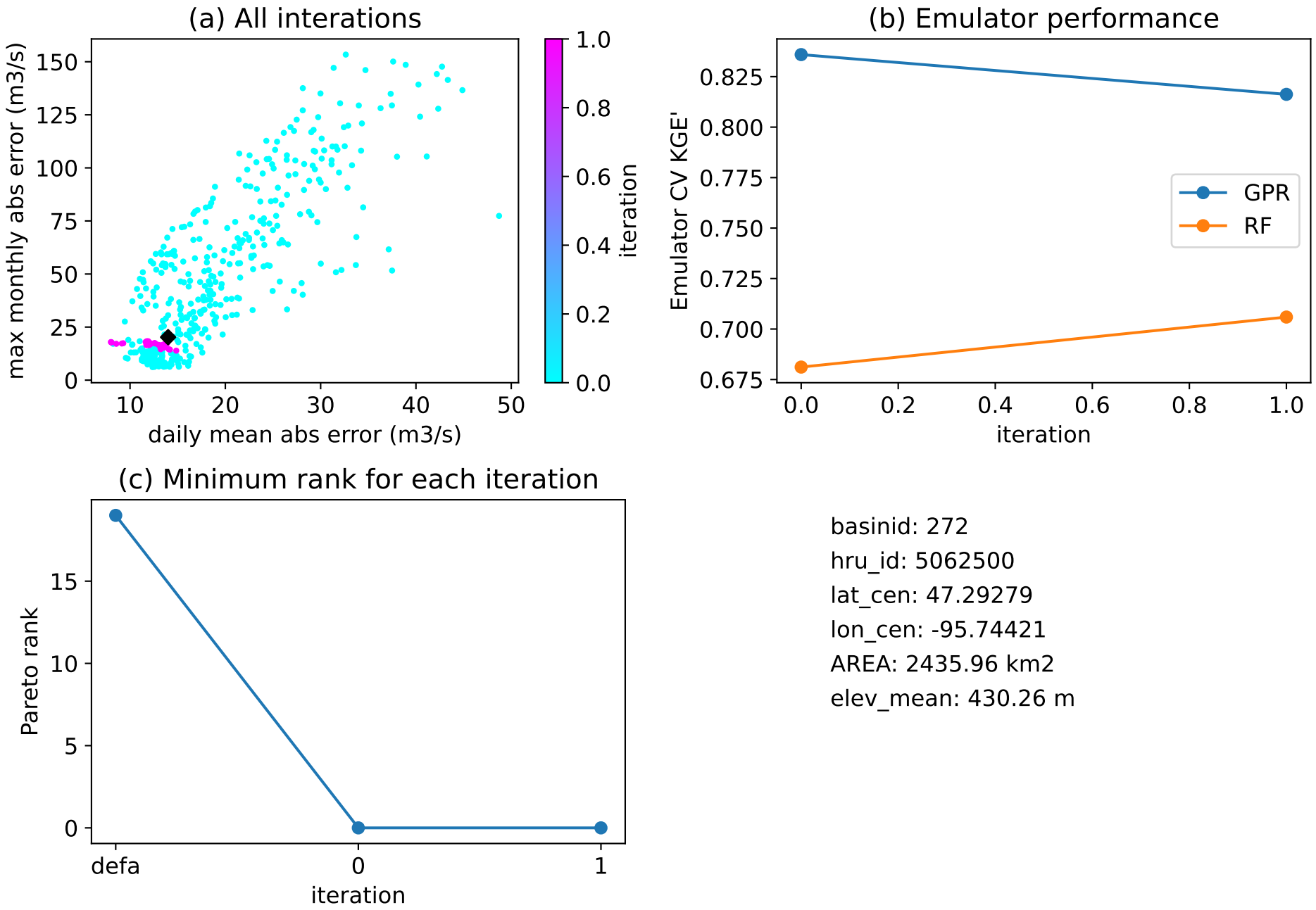
basinid: 270
hru_id: 5056000
lat_cen: 47.89041
lon_cen: -99.78578
AREA: 5648.20 km2
elev_mean: 497.80 m

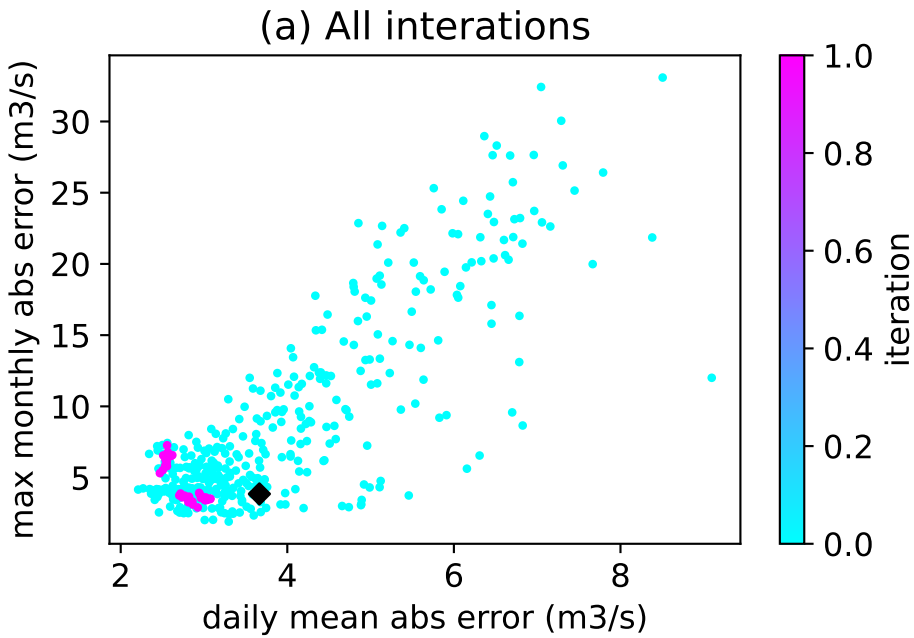


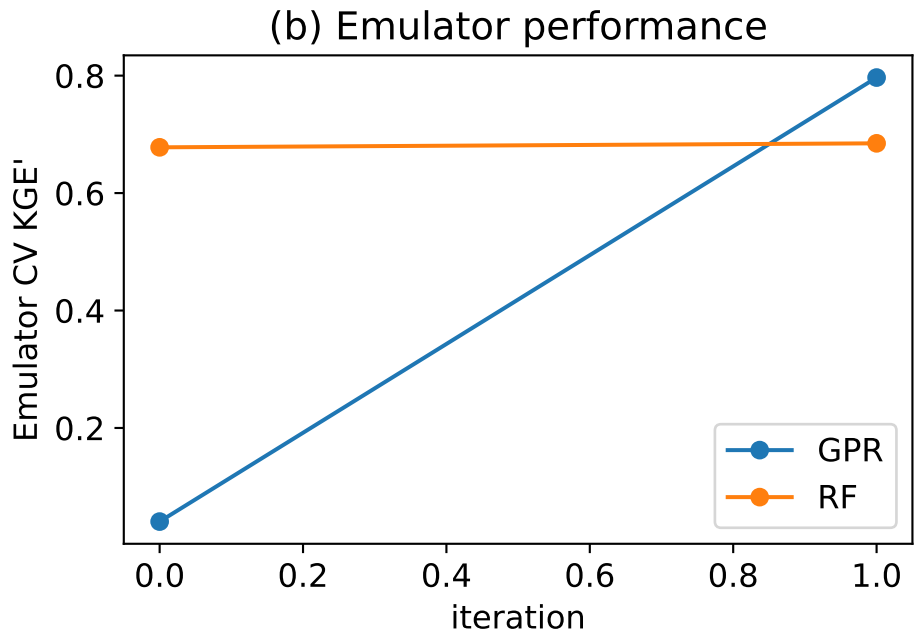


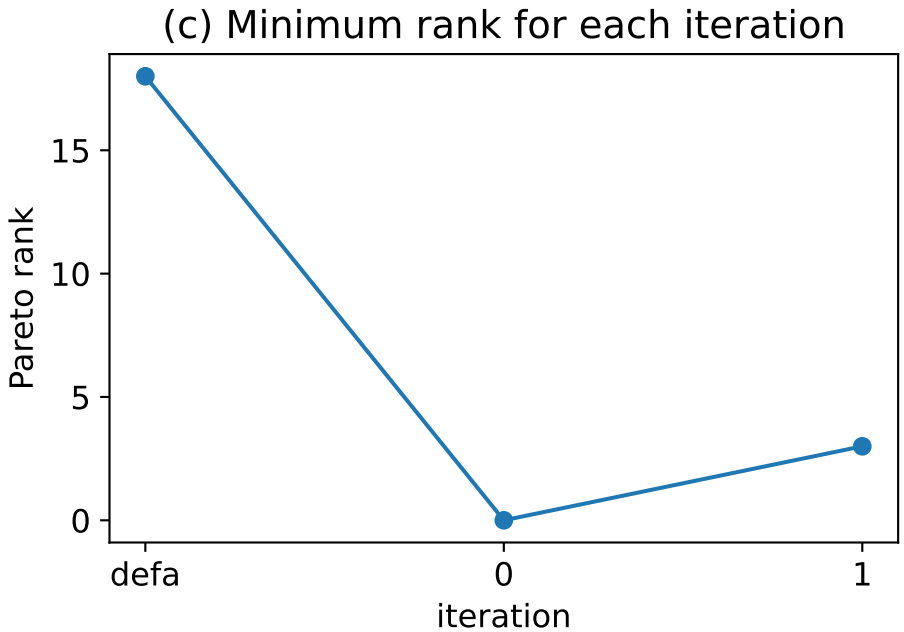


basinid: 271
hru_id: 5057200
lat_cen: 47.38532
lon_cen: -98.4633
AREA: 1900.43 km2
elev_mean: 452.31 m

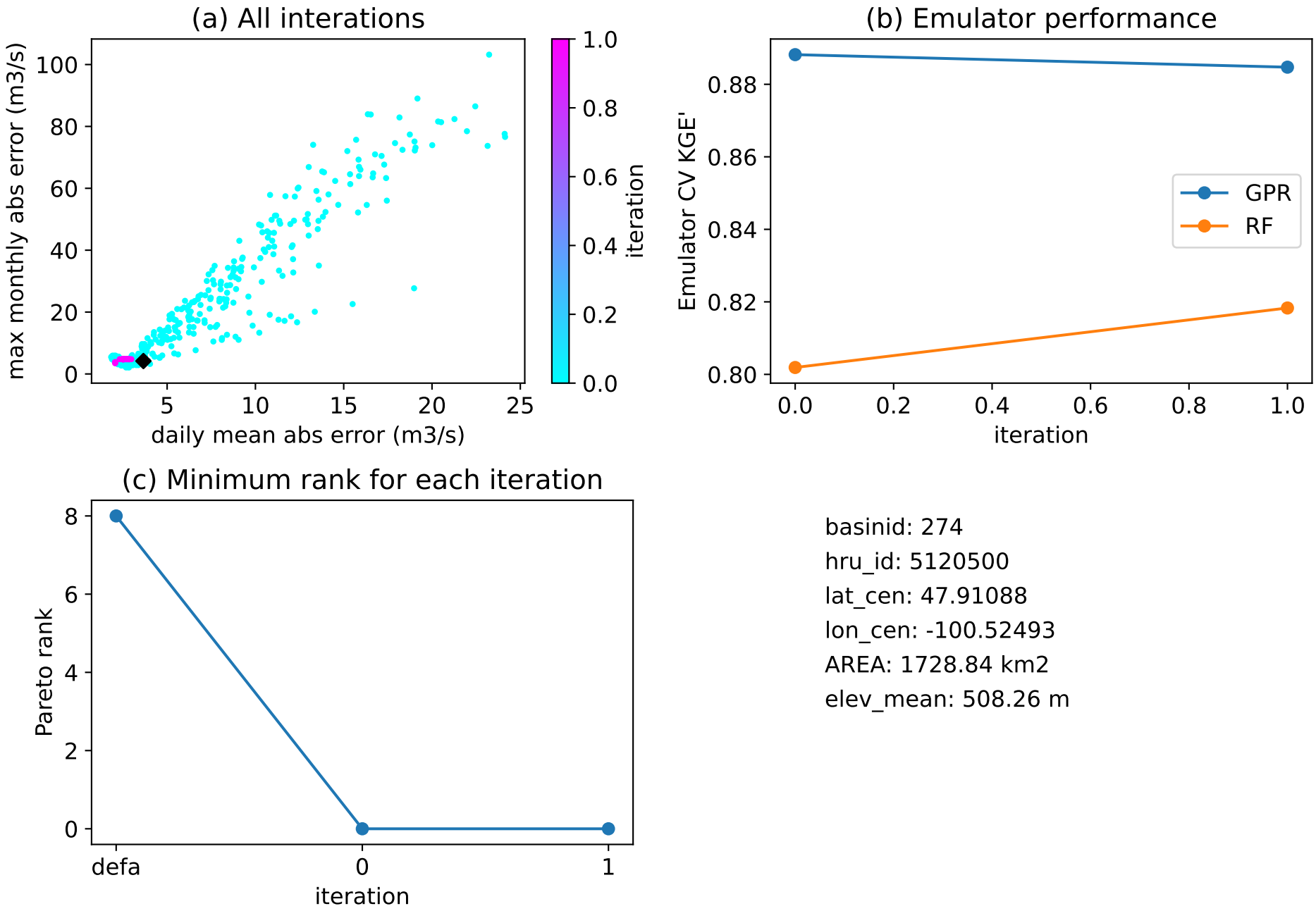

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 272
hru_id: 5062500
lat_cen: 47.29279
lon_cen: -95.74421
AREA: 2435.96 km2
elev_mean: 430.26 m

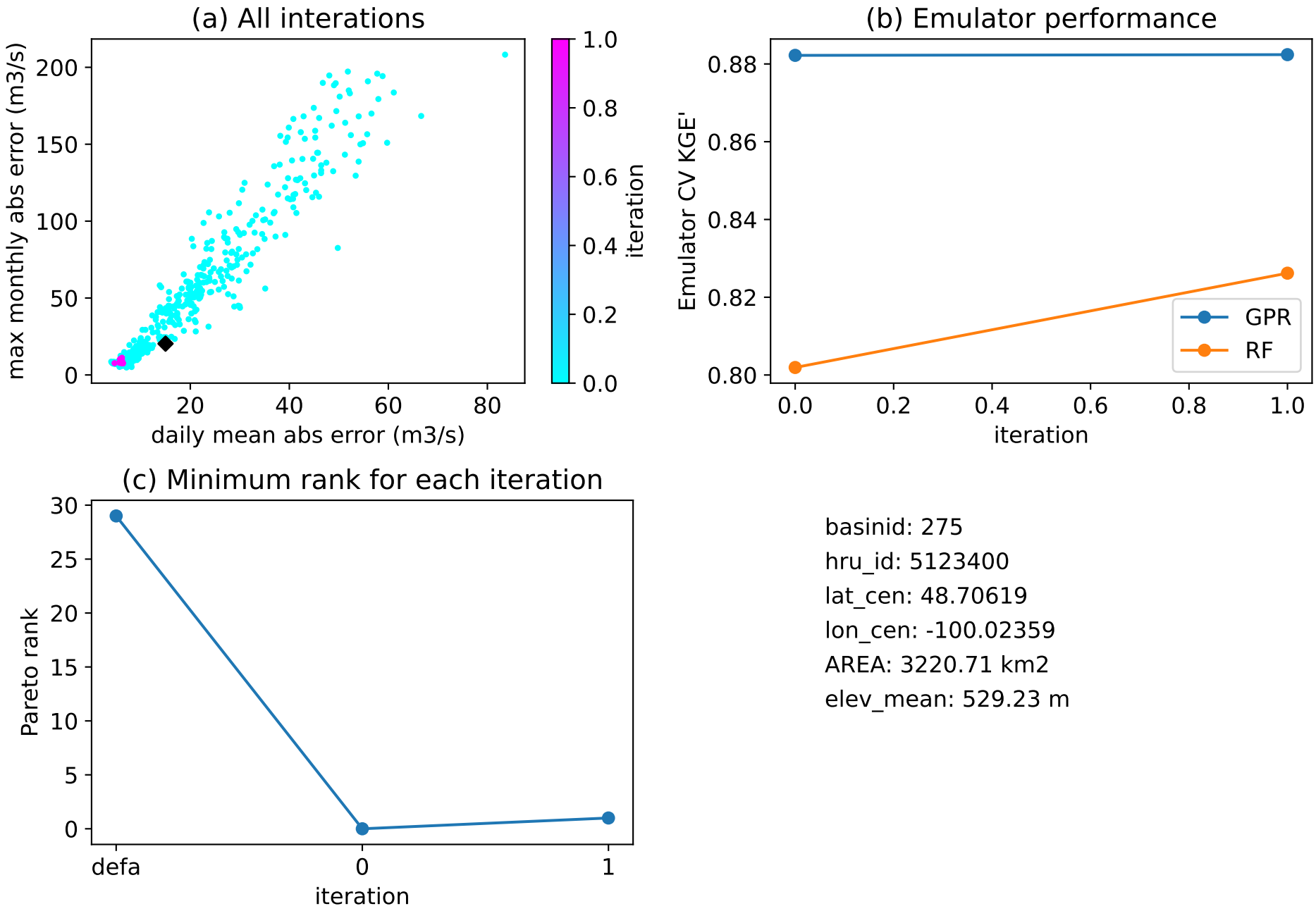


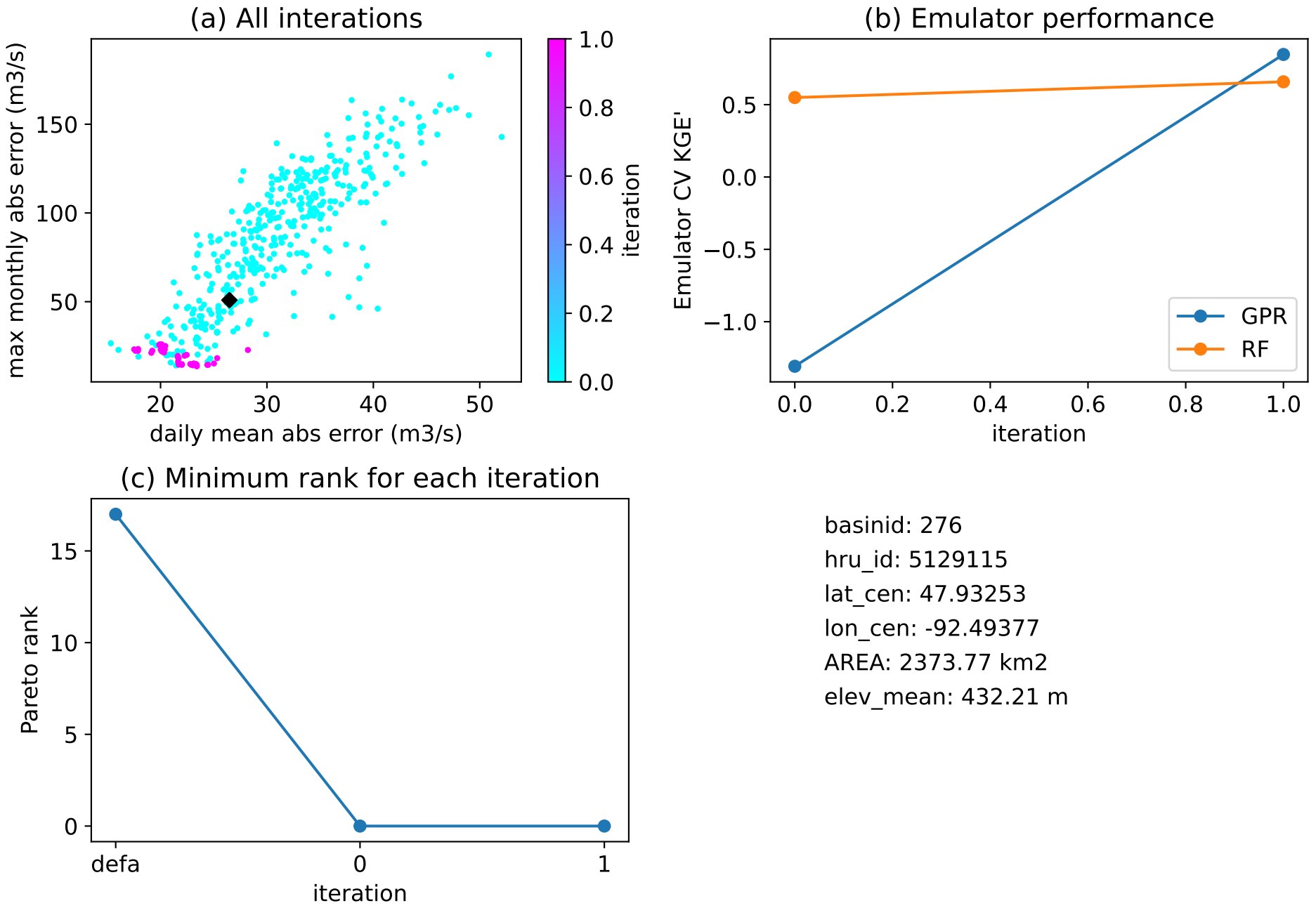


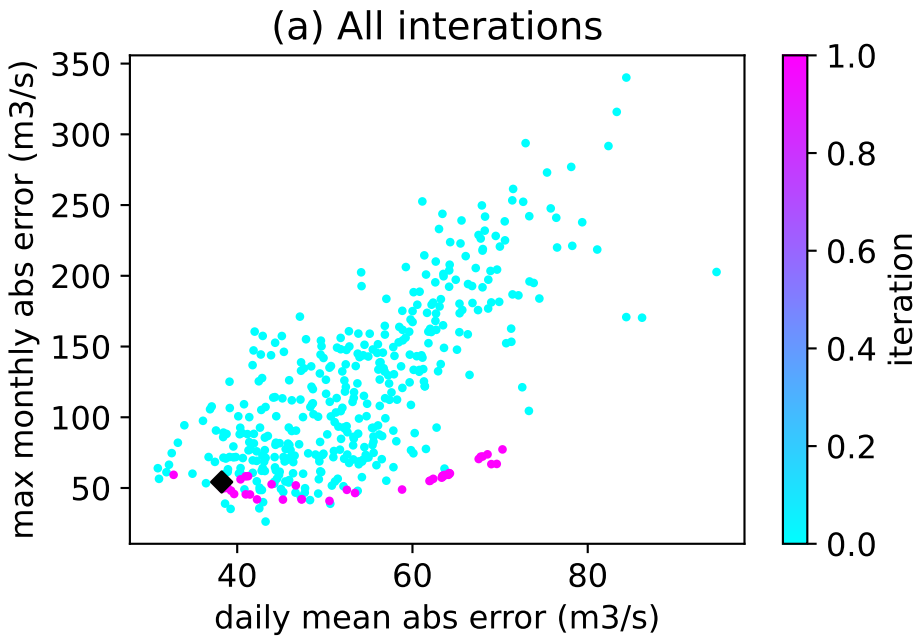


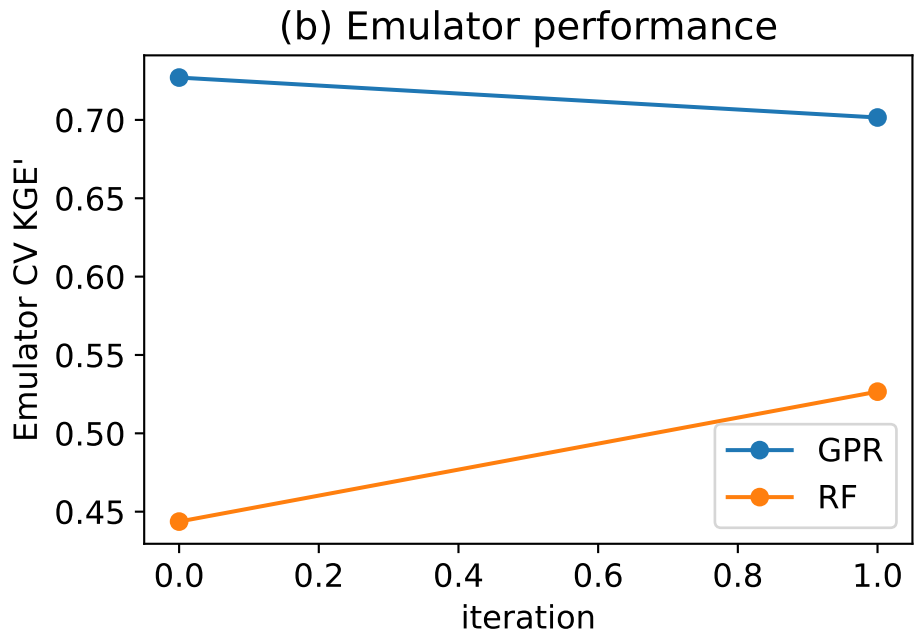
basinid: 273
hru_id: 5087500
lat_cen: 48.38709
lon_cen: -96.33644
AREA: 720.87 km2
elev_mean: 325.84 m

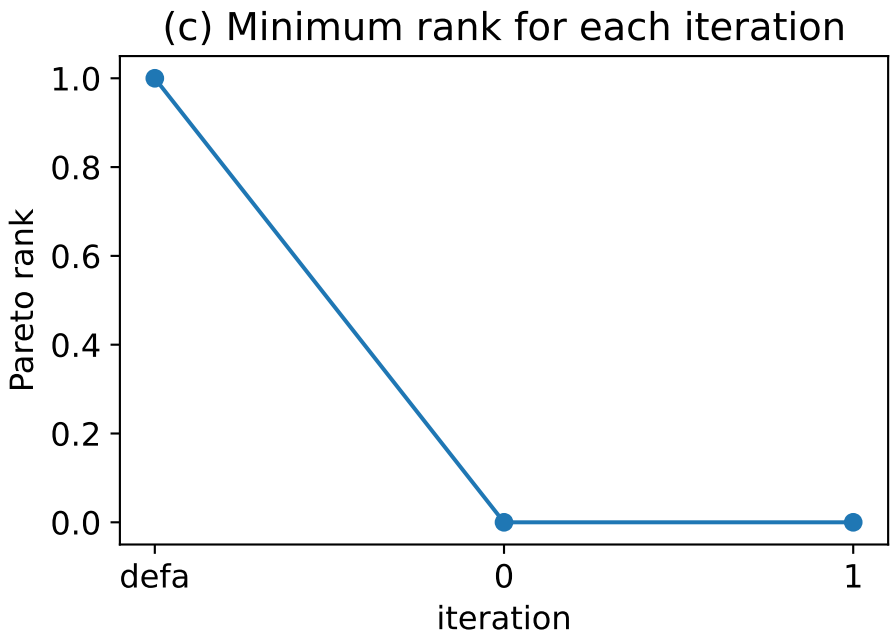

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 274
hru_id: 5120500
lat_cen: 47.91088
lon_cen: -100.52493
AREA: 1728.84 km2
elev_mean: 508.26 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 275
hru_id: 5123400
lat_cen: 48.70619
lon_cen: -100.02359
AREA: 3220.71 km2
elev_mean: 529.23 m

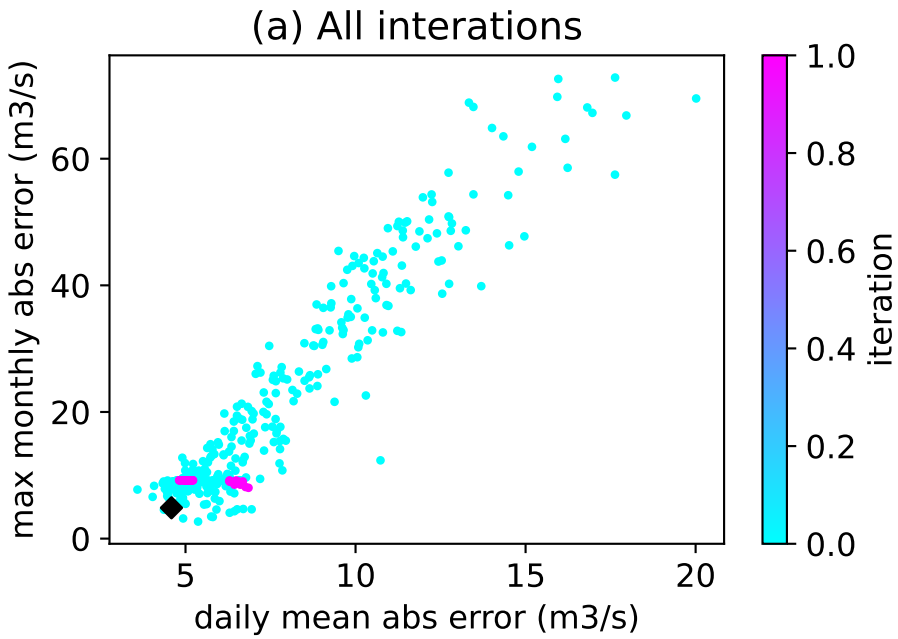

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 276
hru_id: 5129115
lat_cen: 47.93253
lon_cen: -92.49377
AREA: 2373.77 km2
elev_mean: 432.21 m

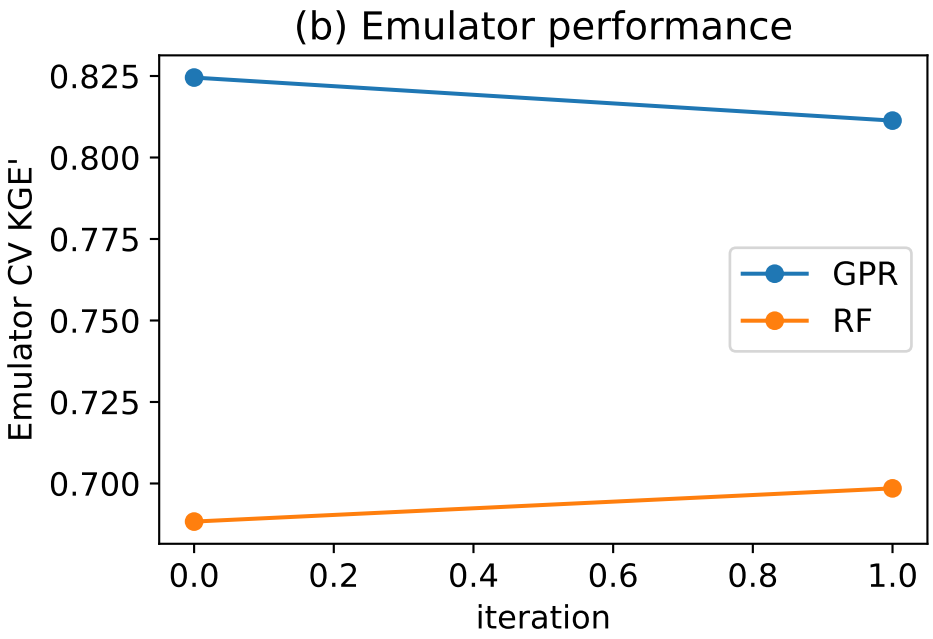


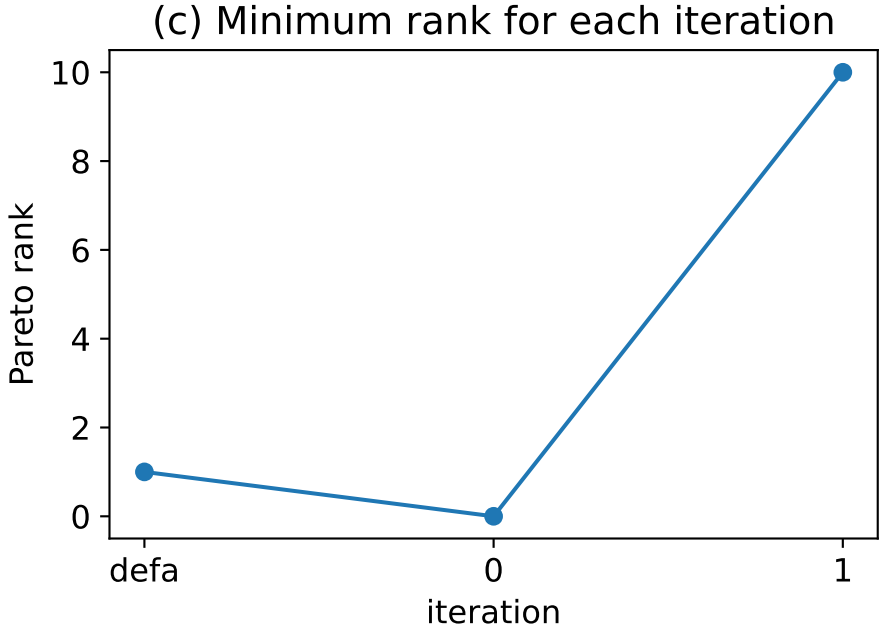




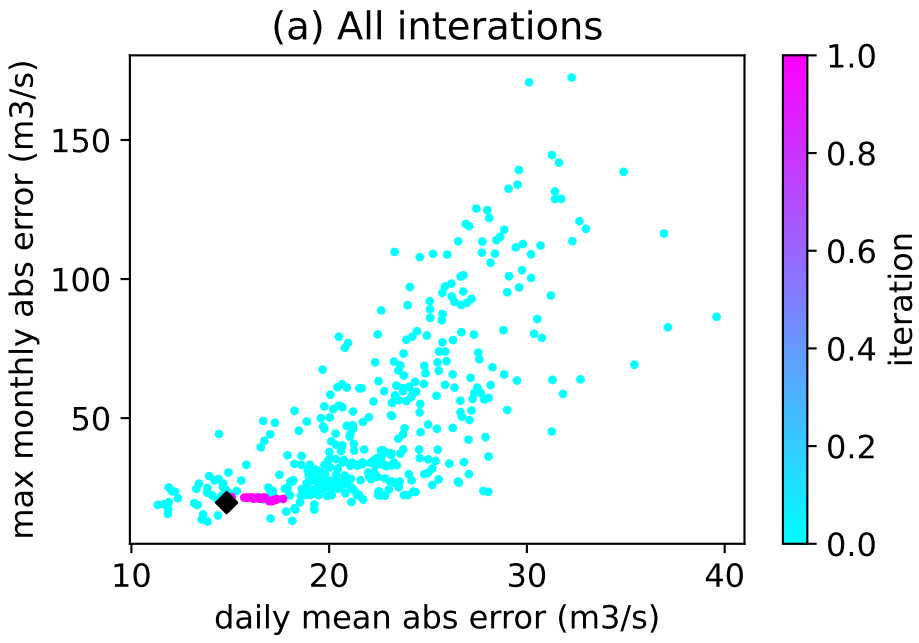
basinid: 277
hru_id: 5131500
lat_cen: 47.89957
lon_cen: -93.04927
AREA: 4344.21 km2
elev_mean: 409.83 m

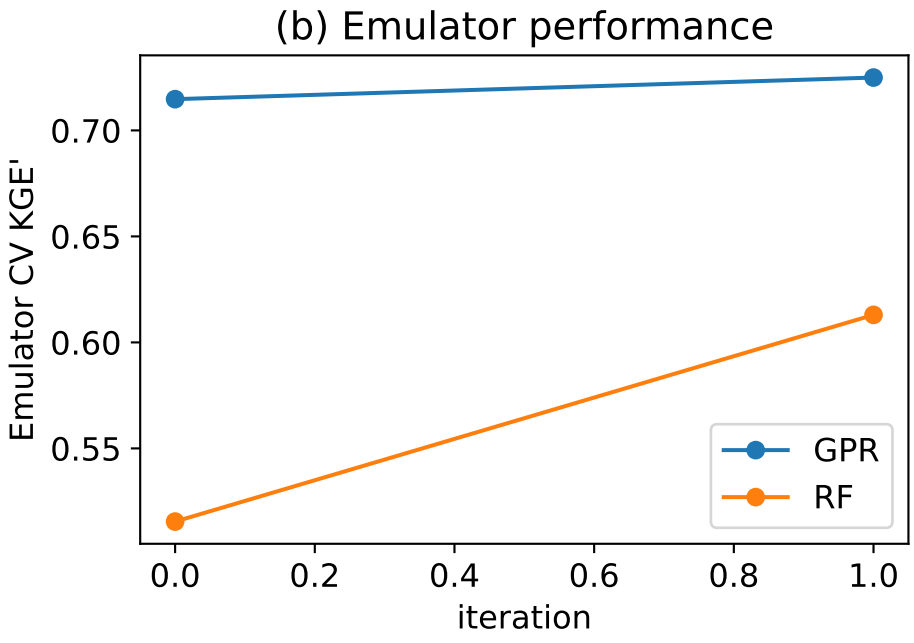


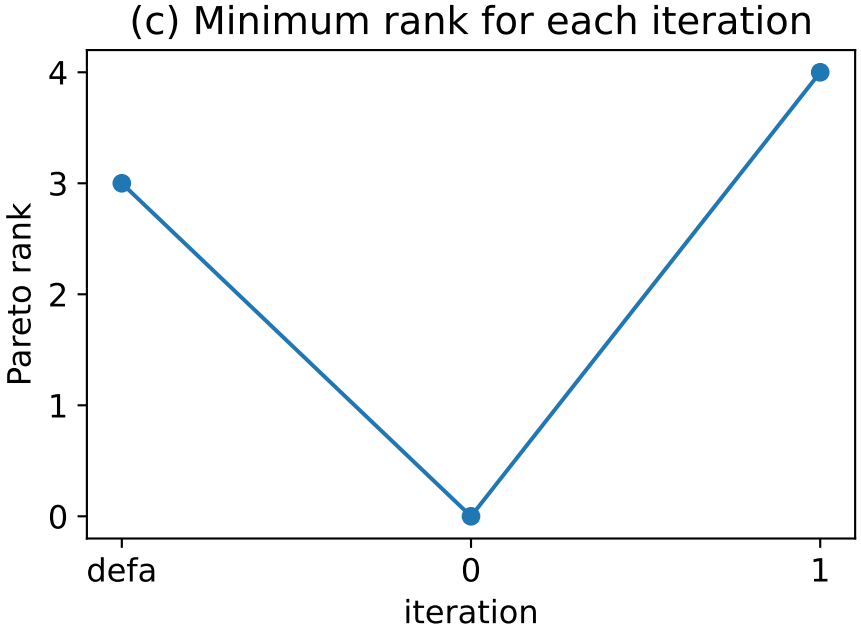




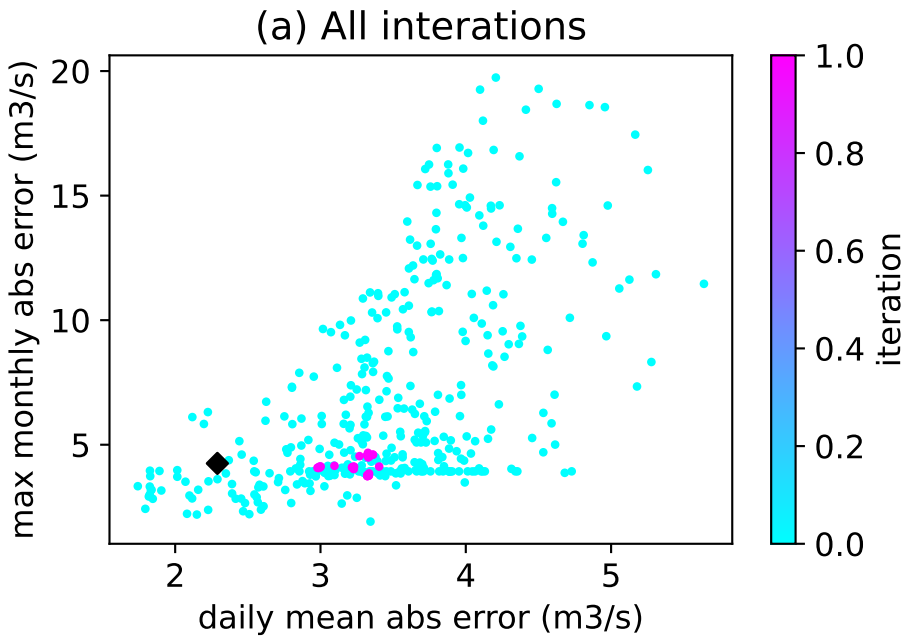
basinid: 278
hru_id: 5291000
lat_cen: 45.3101
lon_cen: -96.82433
AREA: 1058.84 km2
elev_mean: 419.02 m

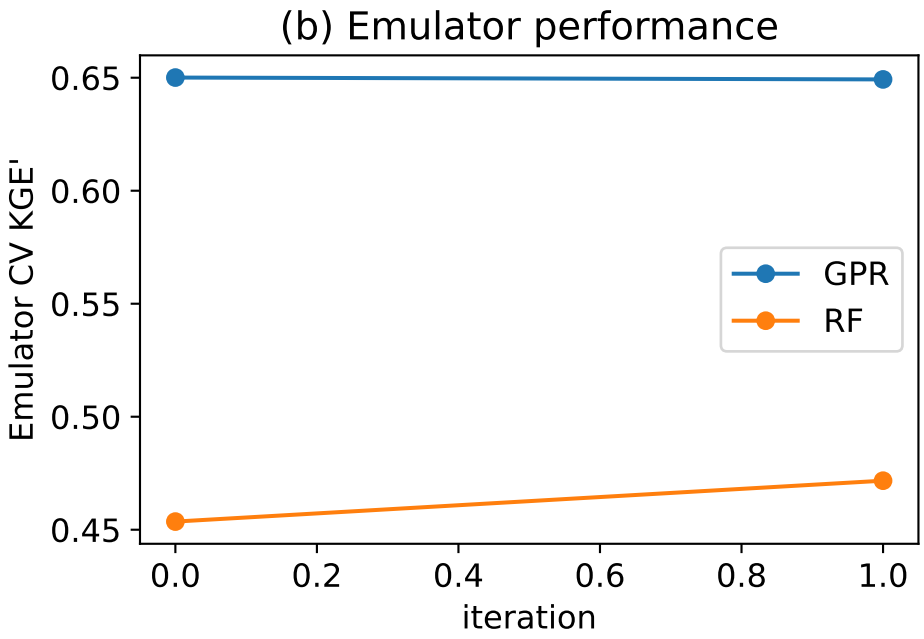


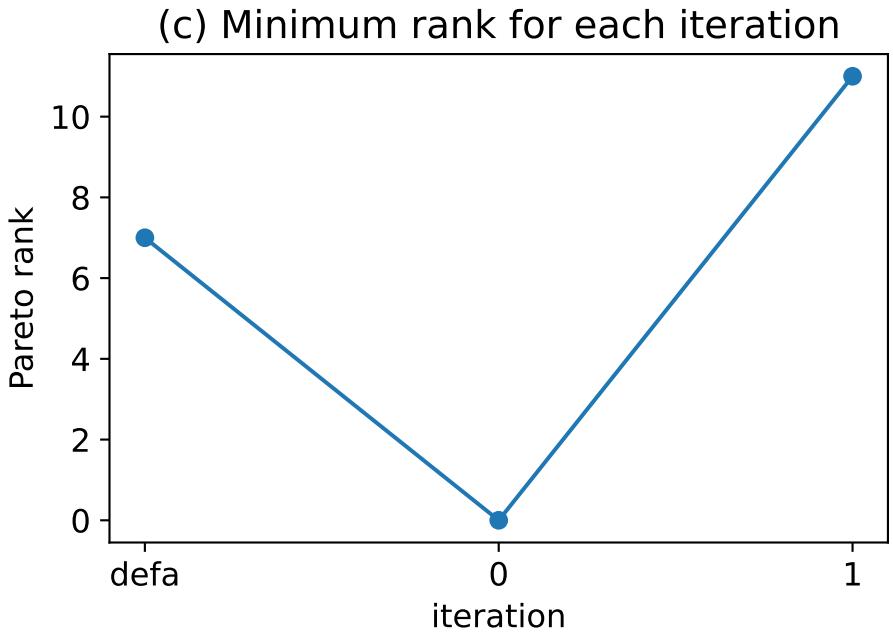




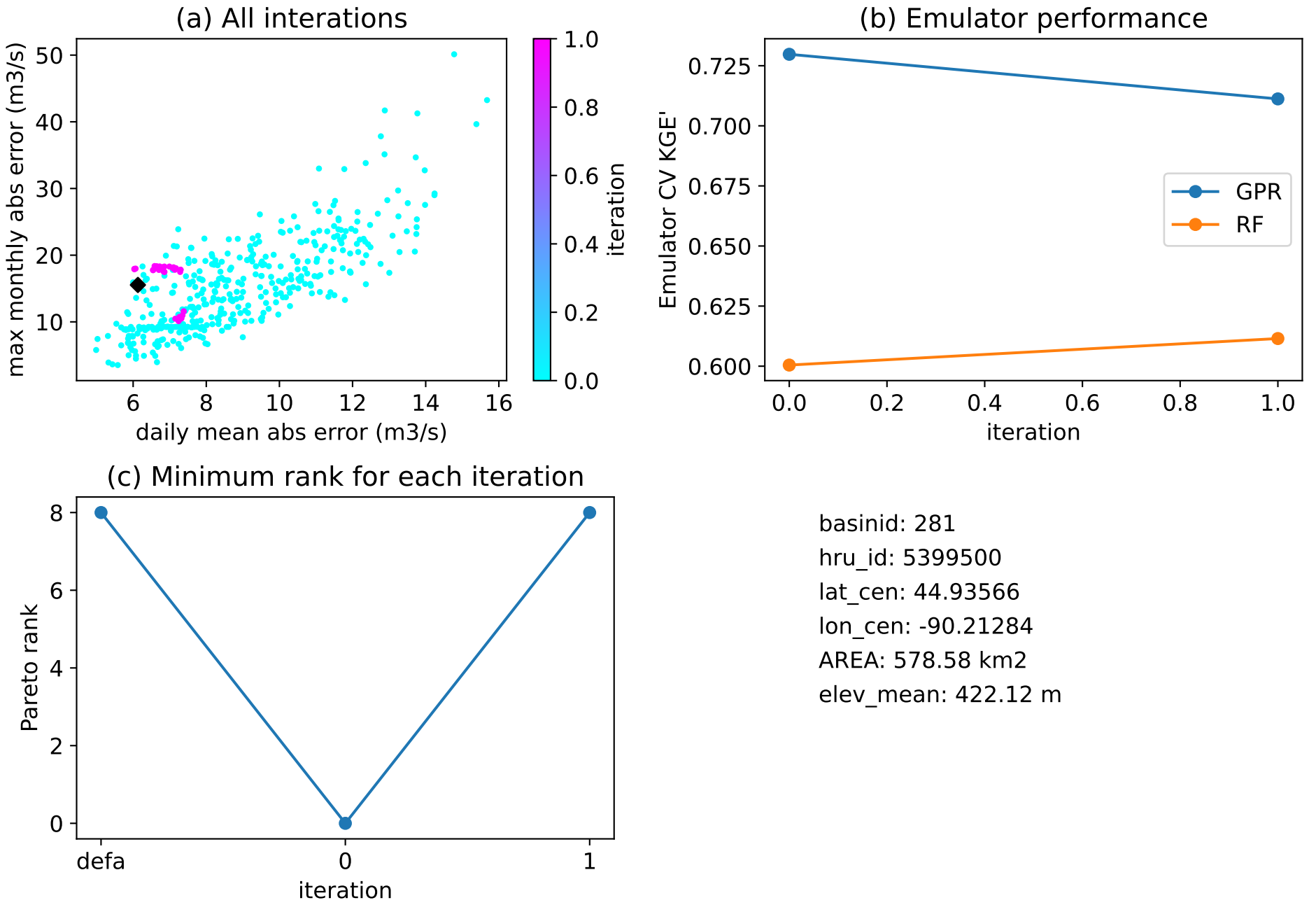
basinid: 279
hru_id: 5362000
lat_cen: 45.46055
lon_cen: -90.42755
AREA: 1494.34 km2
elev_mean: 451.84 m

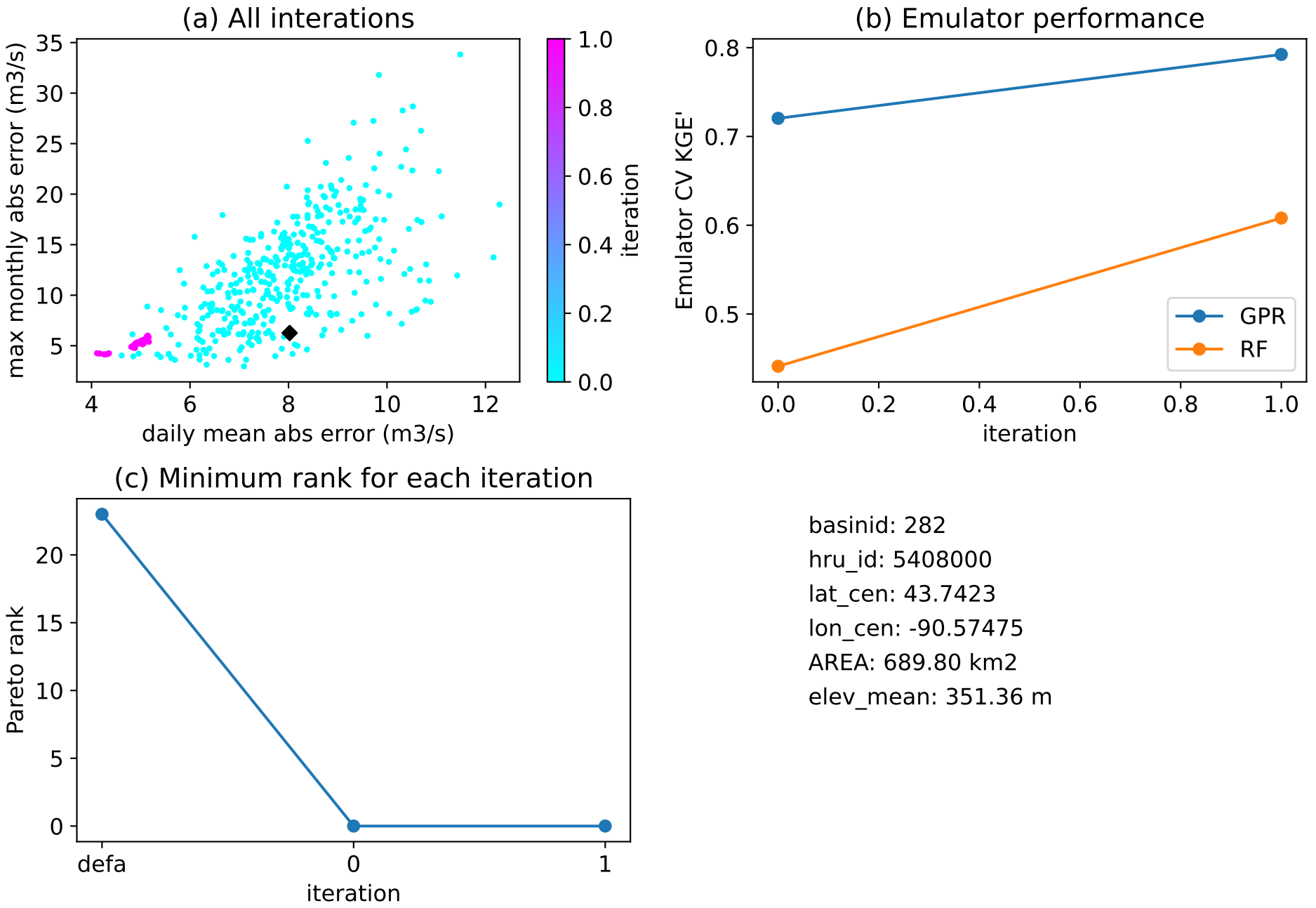


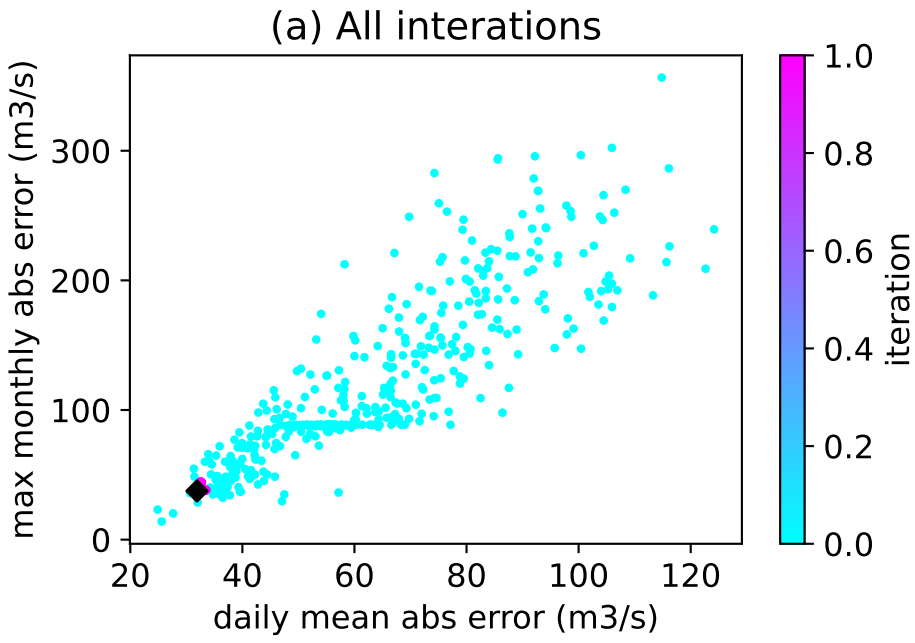


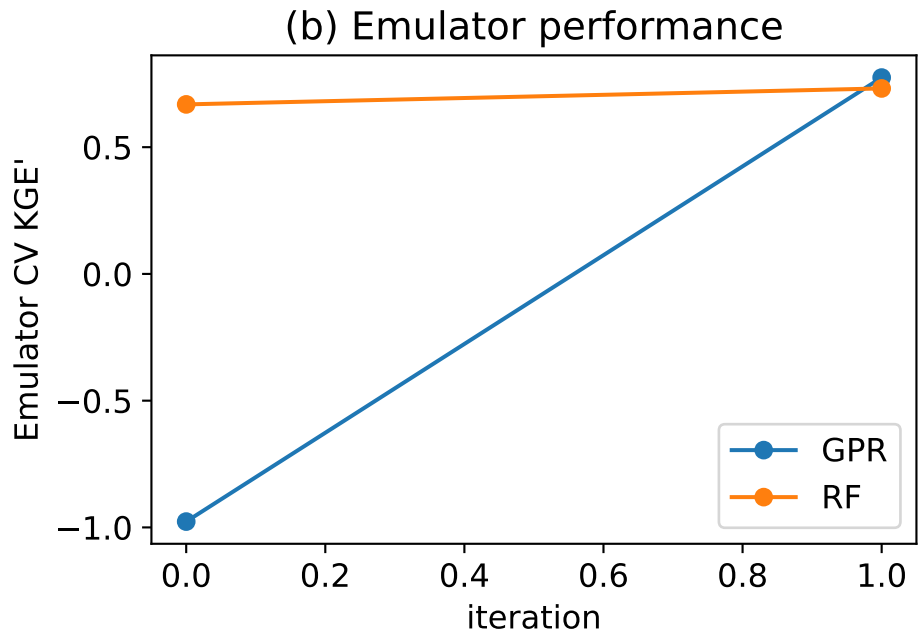


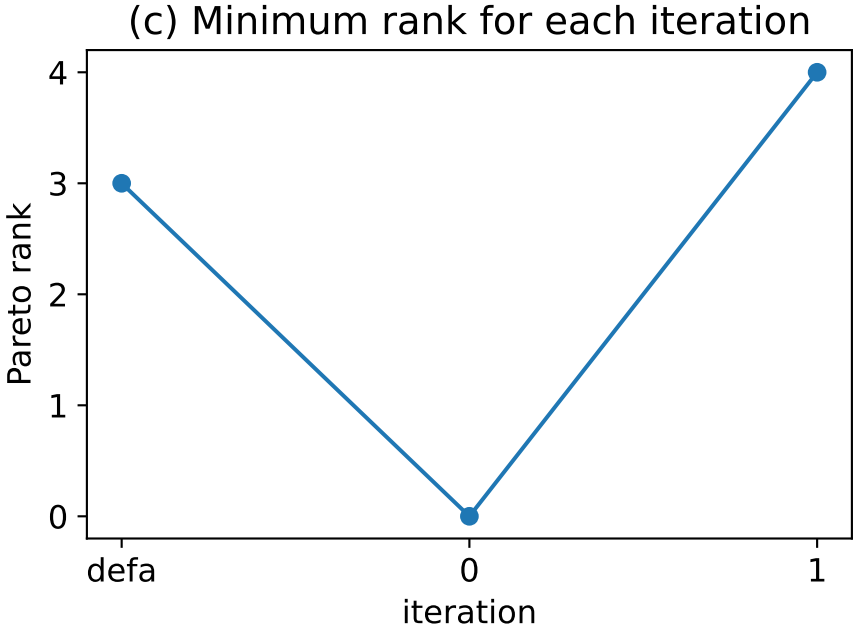
basinid: 280
hru_id: 5393500
lat_cen: 45.44003
lon_cen: -90.10102
AREA: 225.96 km2
elev_mean: 503.05 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 281
hru_id: 5399500
lat_cen: 44.93566
lon_cen: -90.21284
AREA: 578.58 km2
elev_mean: 422.12 m

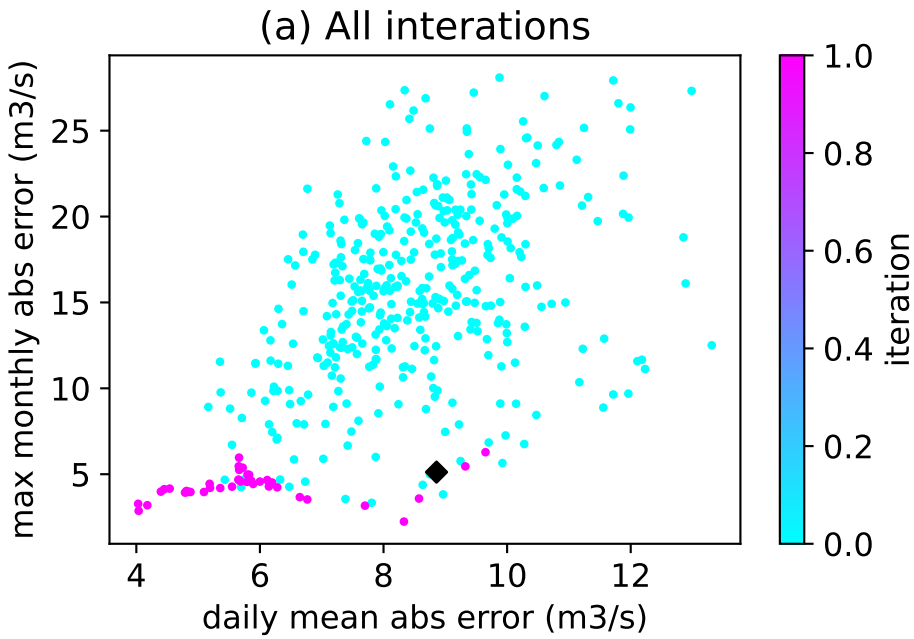

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 282
hru_id: 5408000
lat_cen: 43.7423
lon_cen: -90.57475
AREA: 689.80 km2
elev_mean: 351.36 m

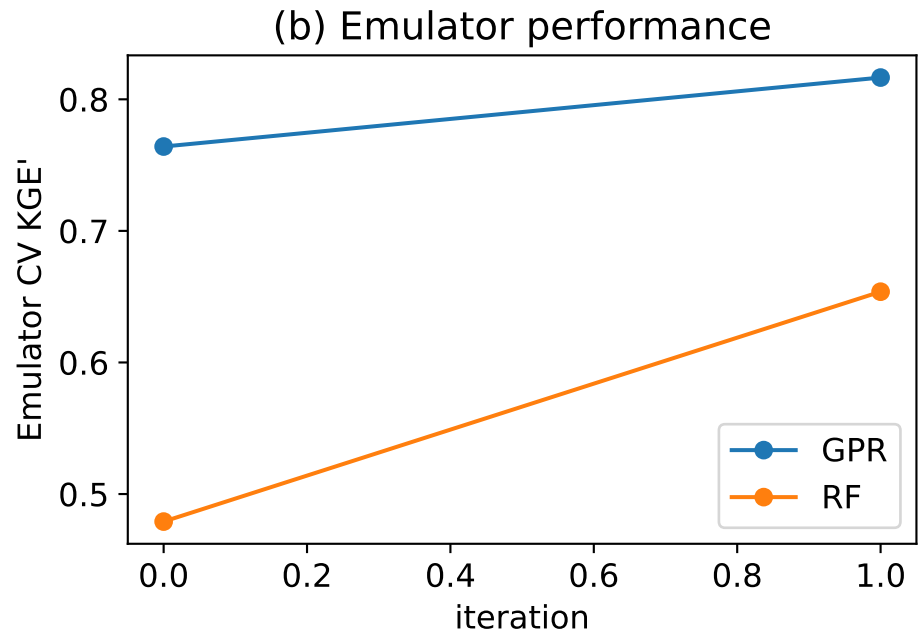


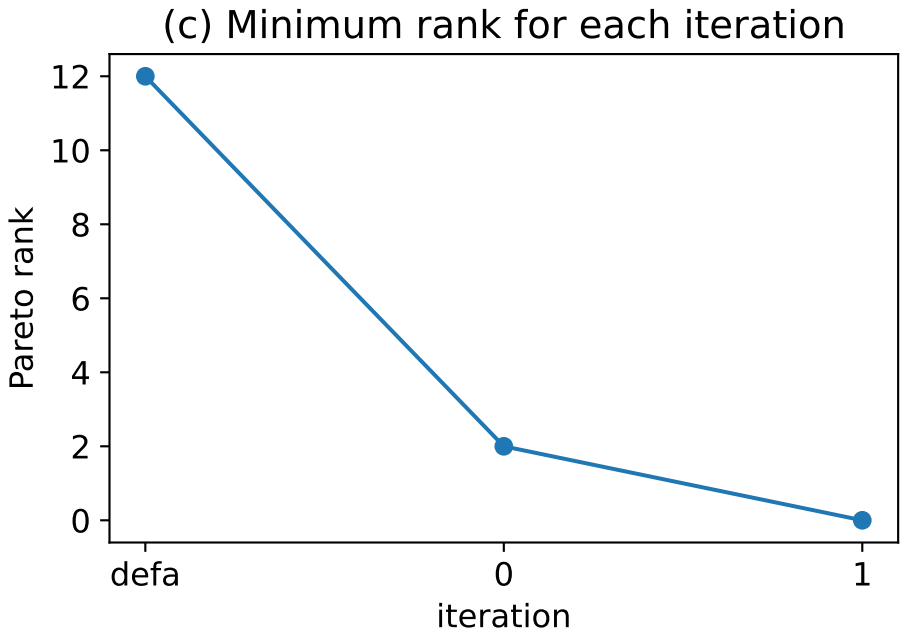




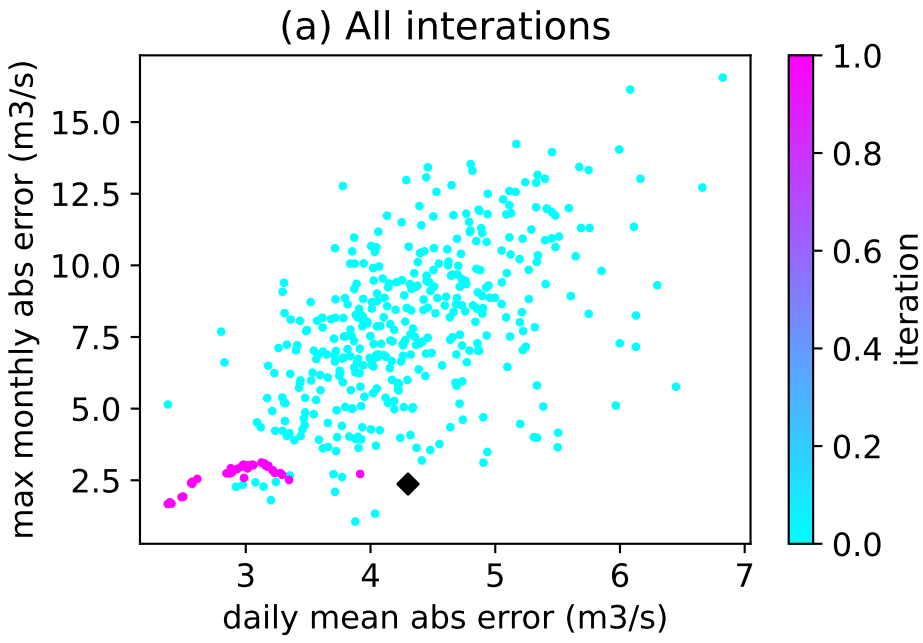
basinid: 283
hru_id: 5412500
lat_cen: 43.00549
lon_cen: -91.80977
AREA: 4026.25 km2
elev_mean: 338.36 m

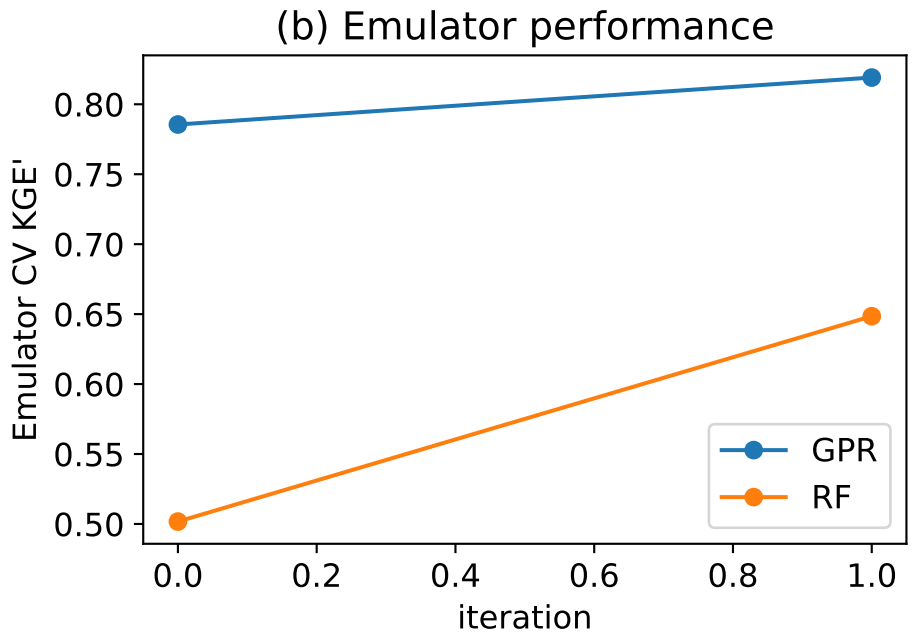


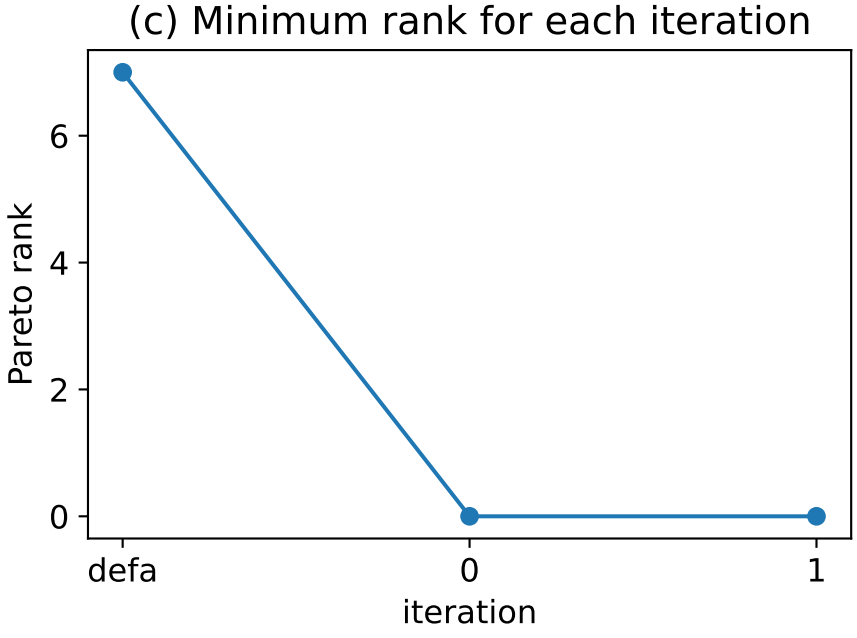




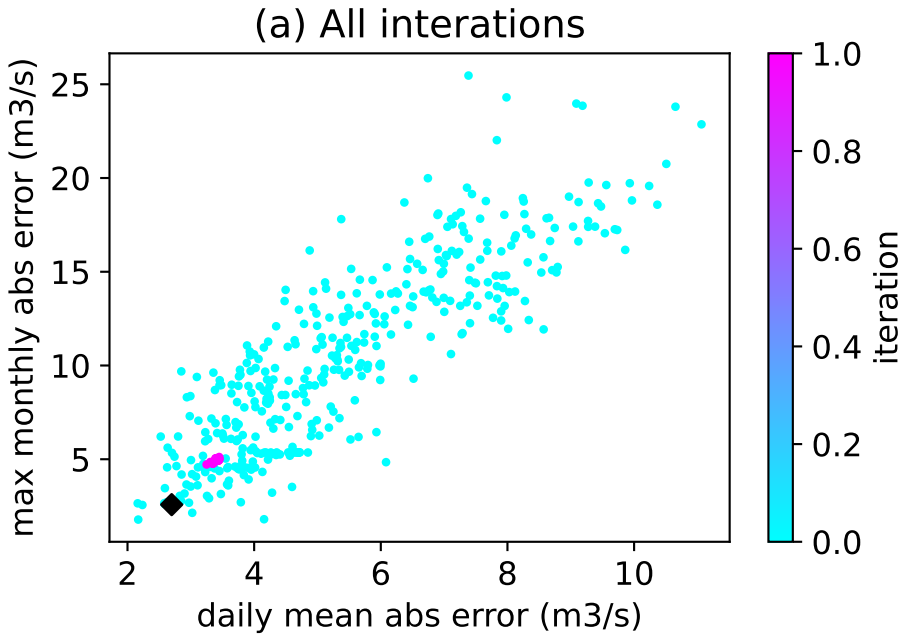
basinid: 284
hru_id: 5413500
lat_cen: 42.86026
lon_cen: -90.83821
AREA: 710.48 km2
elev_mean: 298.03 m

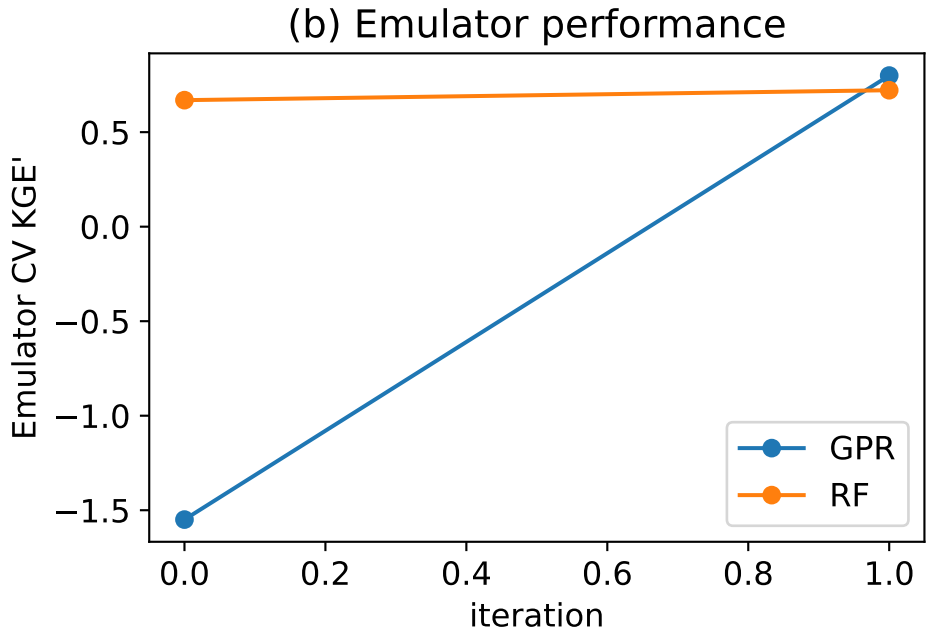


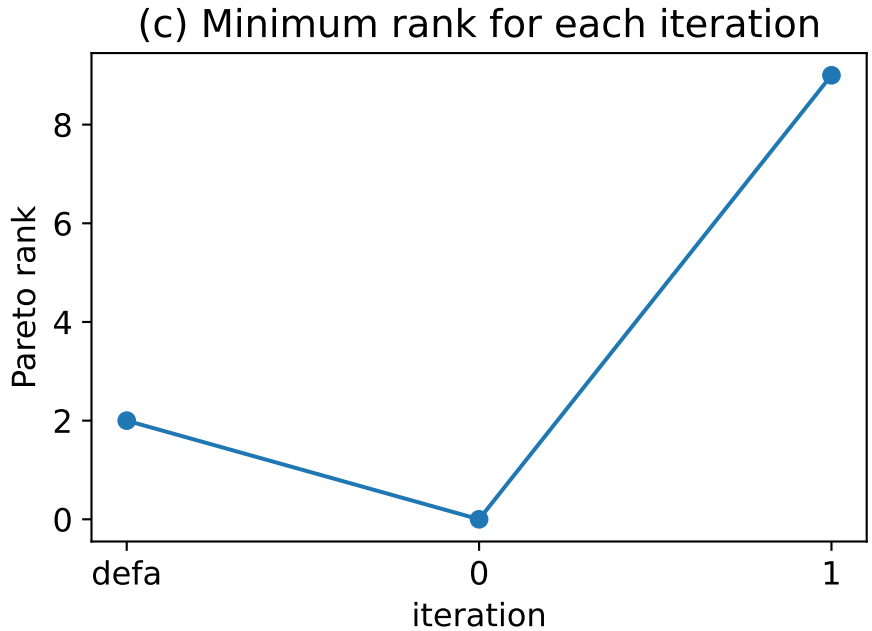




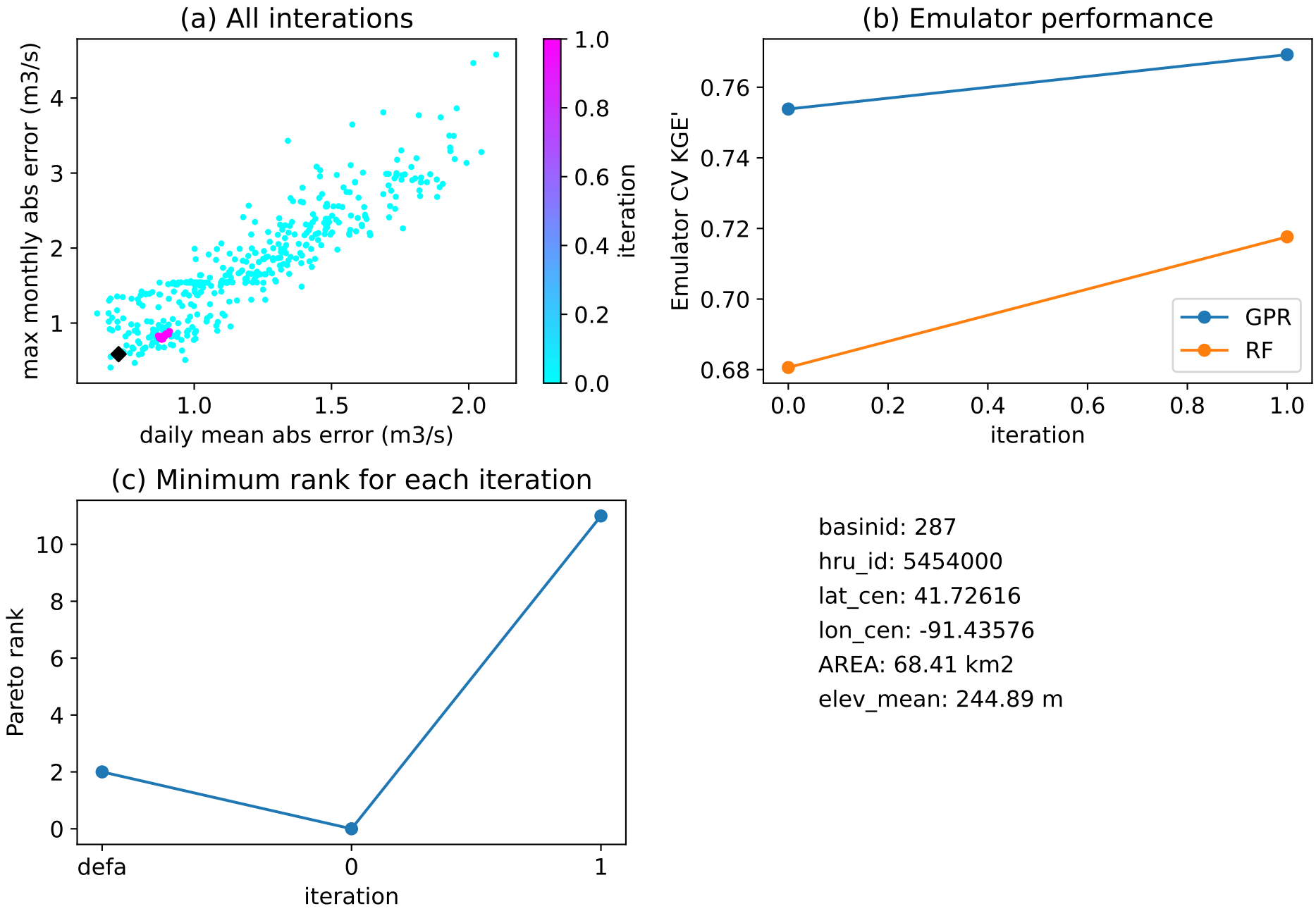
basinid: 285
hru_id: 5414000
lat_cen: 42.86922
lon_cen: -90.57086
AREA: 368.72 km2
elev_mean: 306.26 m

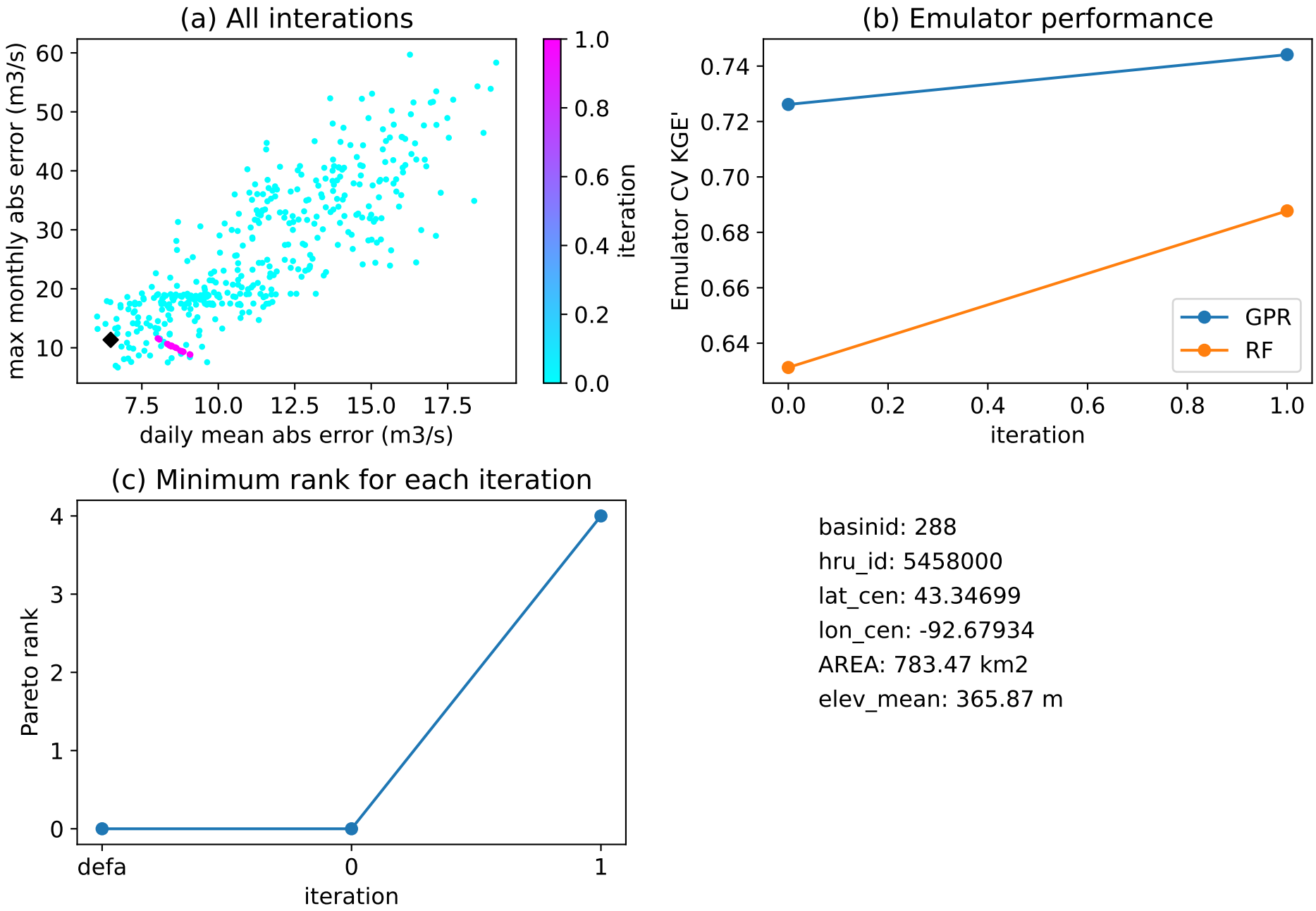


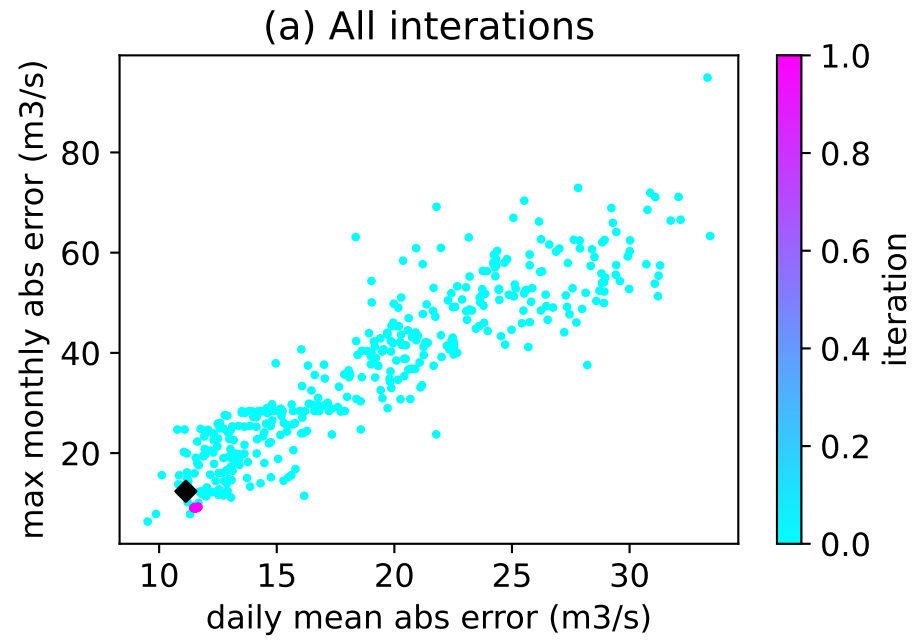


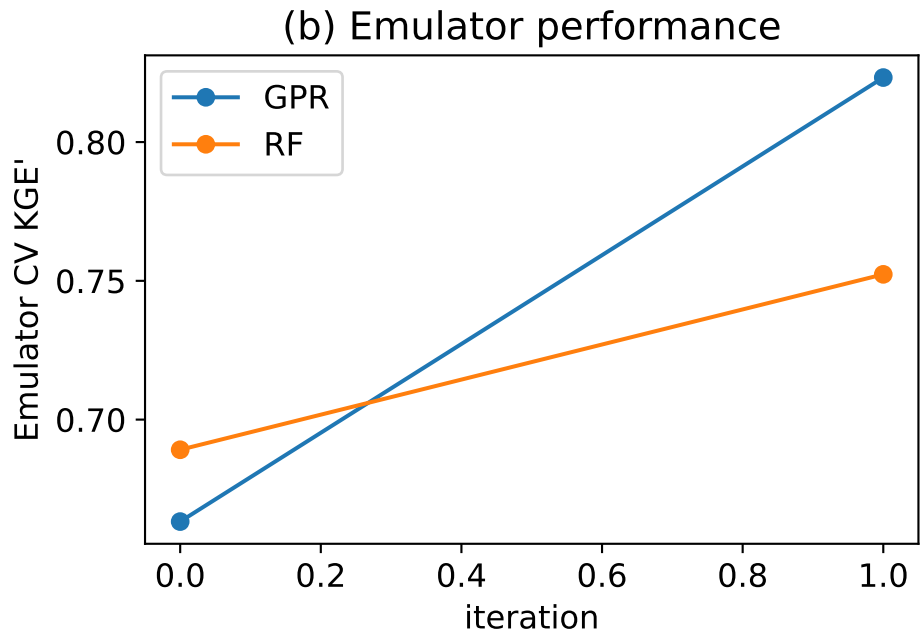


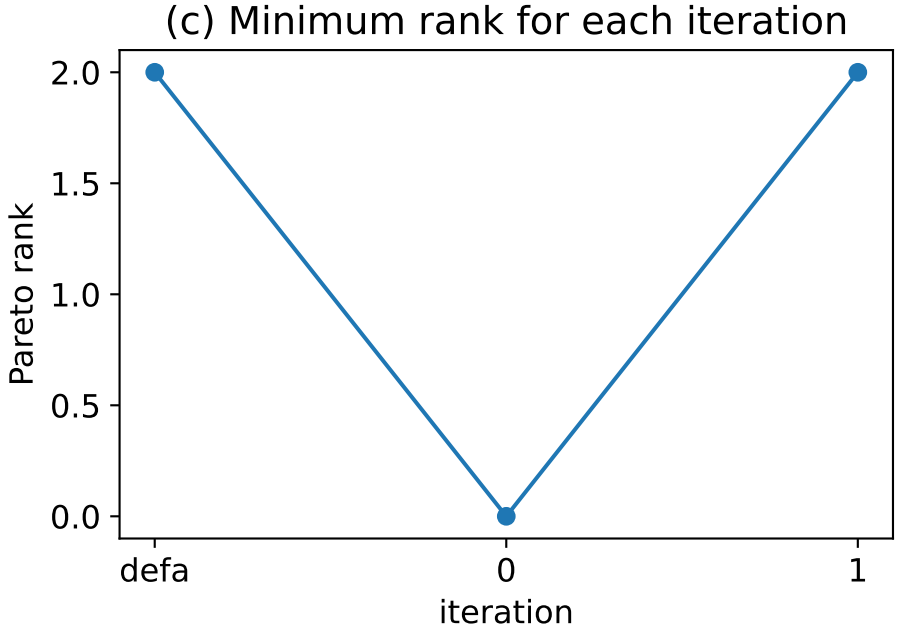
basinid: 286
hru_id: 5444000
lat_cen: 42.01625
lon_cen: -89.66494
AREA: 377.29 km2
elev_mean: 253.47 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 287
hru_id: 5454000
lat_cen: 41.72616
lon_cen: -91.43576
AREA: 68.41 km2
elev_mean: 244.89 m

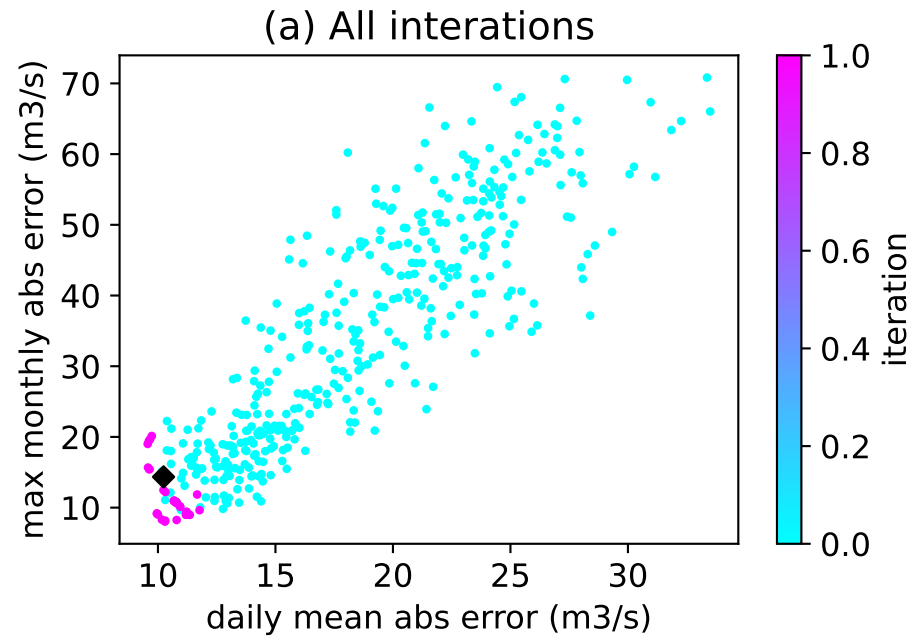

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 288
hru_id: 5458000
lat_cen: 43.34699
lon_cen: -92.67934
AREA: 783.47 km2
elev_mean: 365.87 m

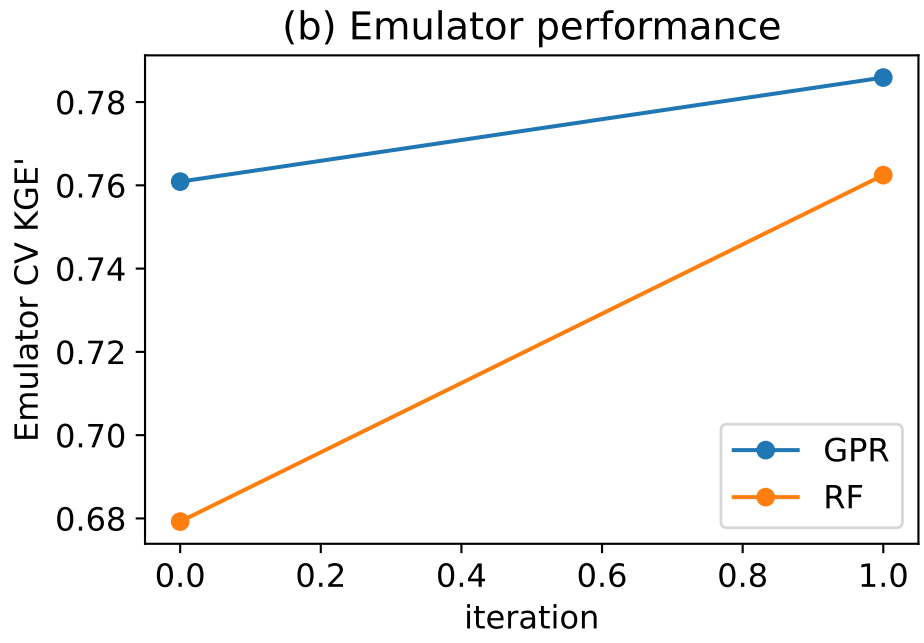


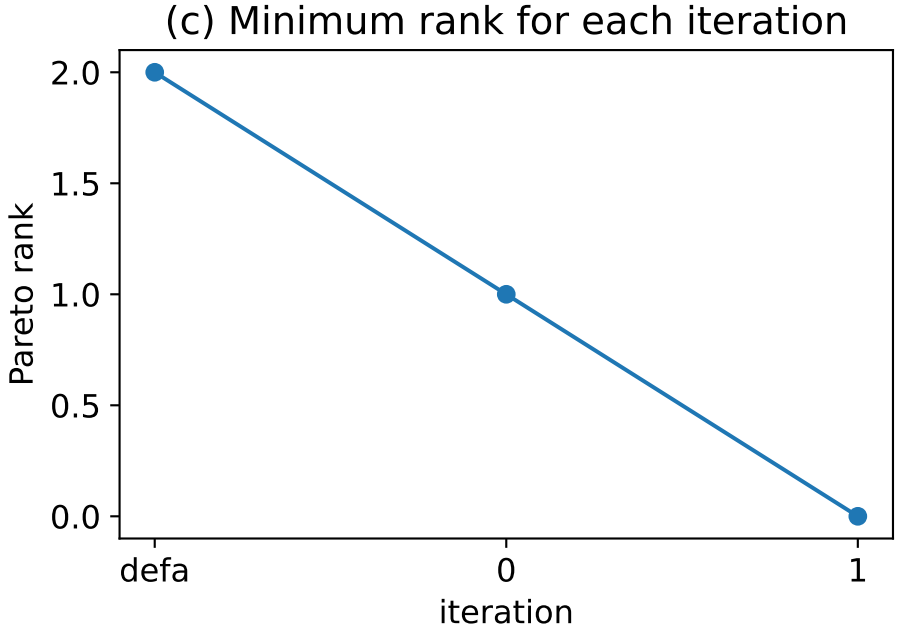




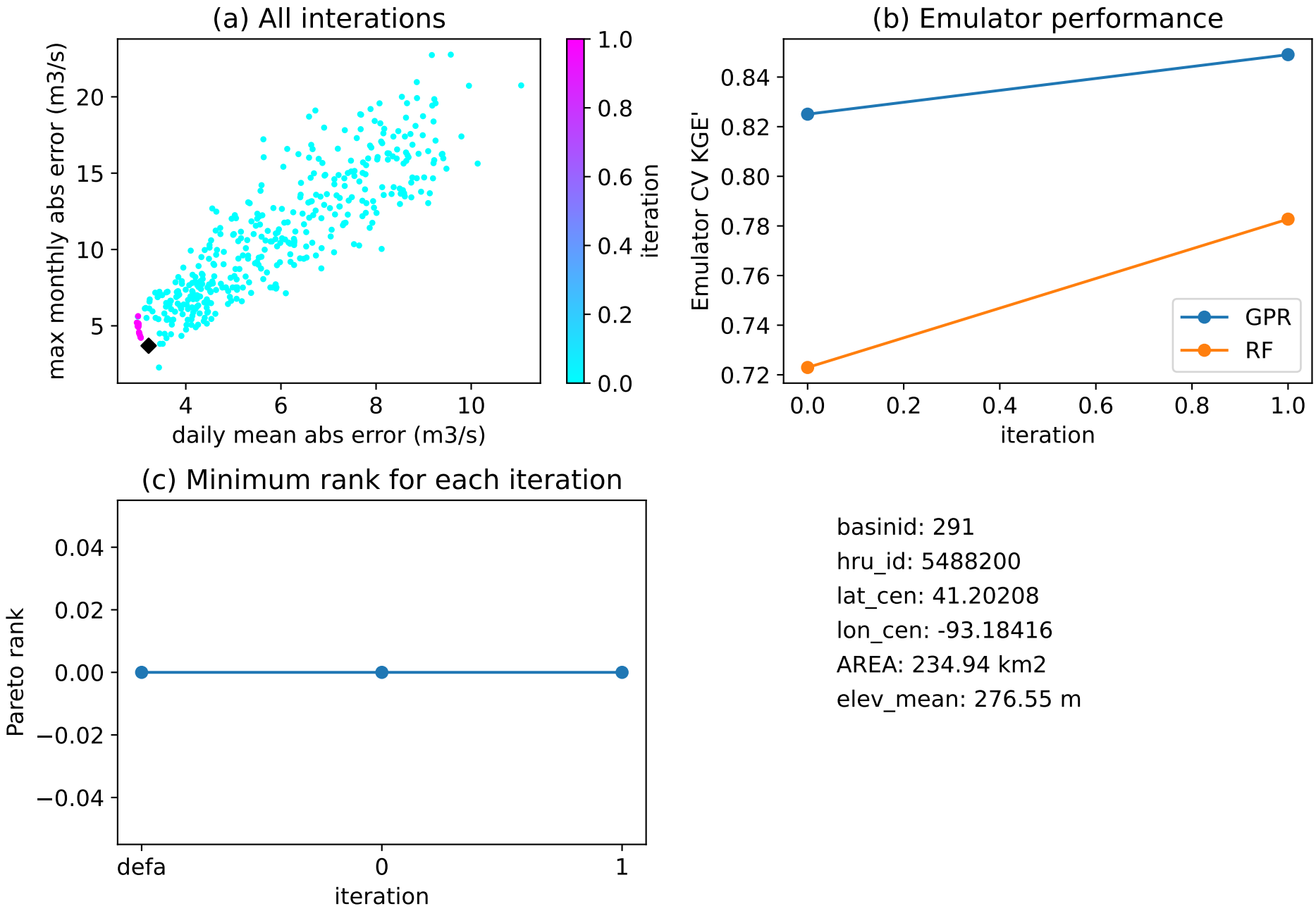
basinid: 289
hru_id: 5466500
lat_cen: 41.25057
lon_cen: -90.44661
AREA: 1163.88 km2
elev_mean: 224.47 m

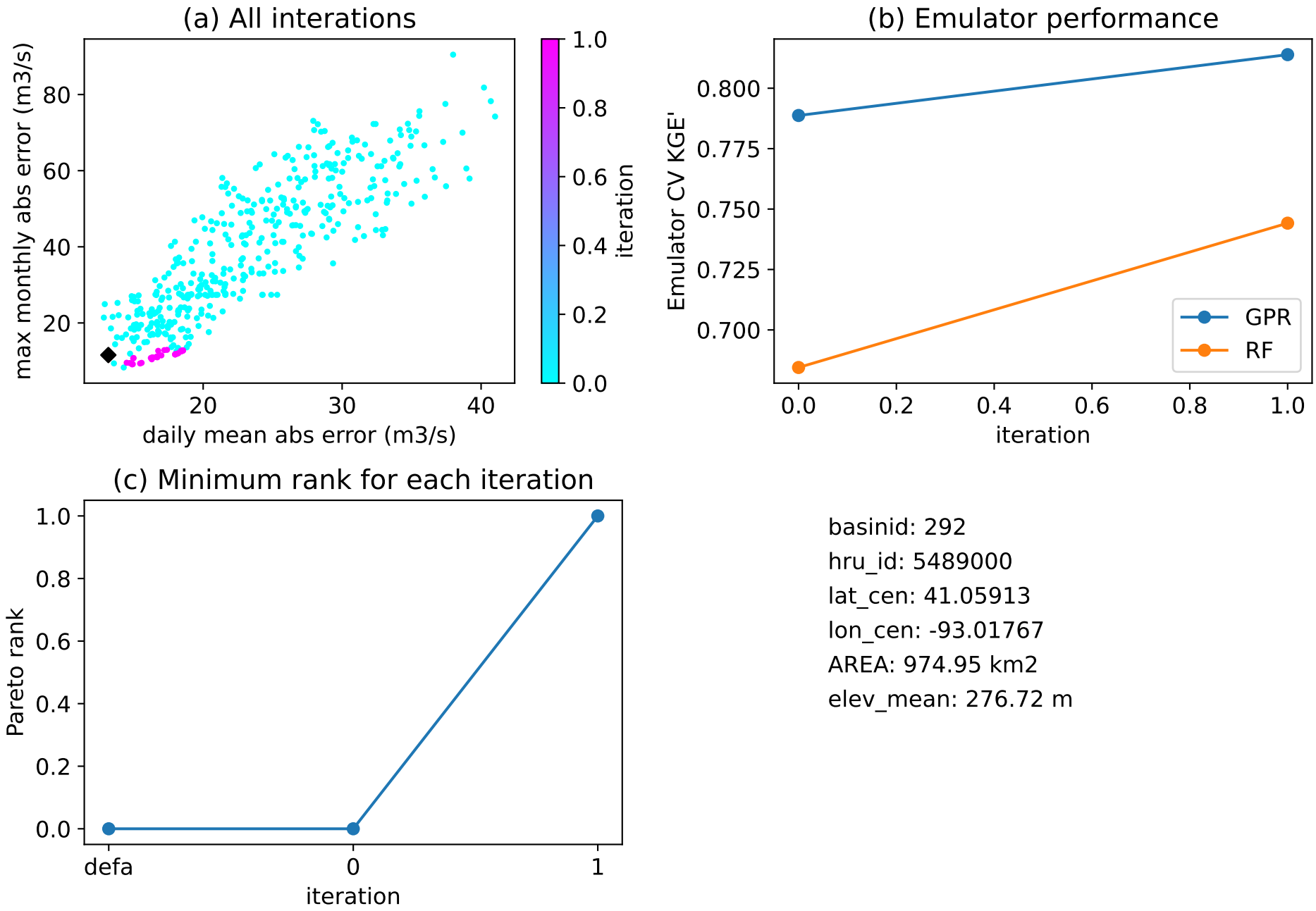


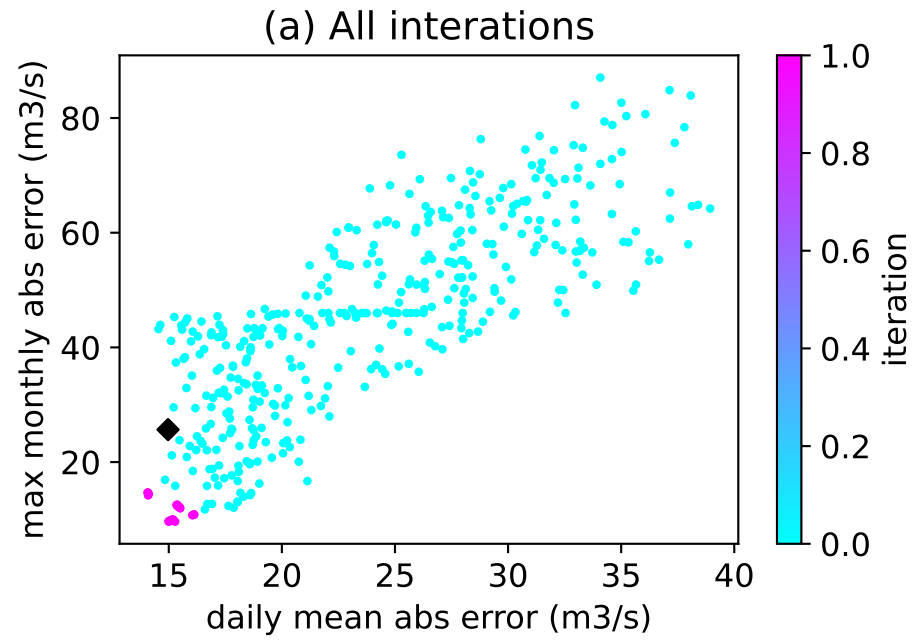


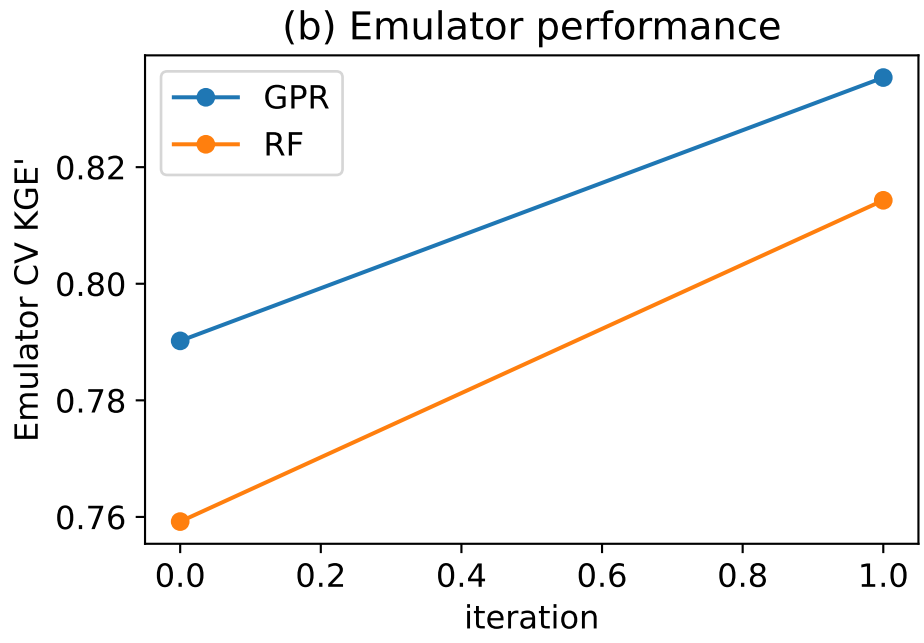


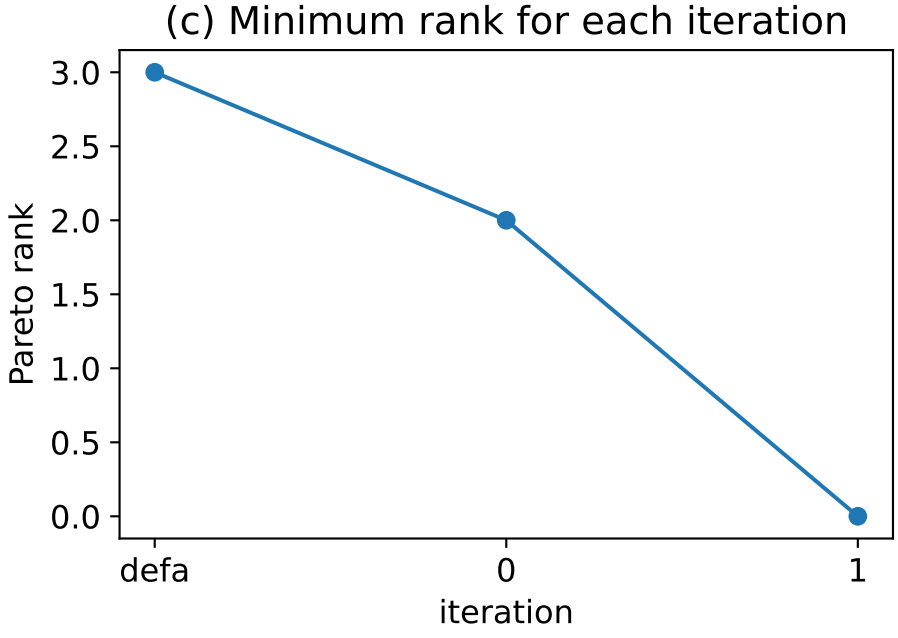
basinid: 290
hru_id: 5487980
lat_cen: 41.07717
lon_cen: -93.48353
AREA: 878.10 km2
elev_mean: 301.94 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 291
hru_id: 5488200
lat_cen: 41.20208
lon_cen: -93.18416
AREA: 234.94 km2
elev_mean: 276.55 m

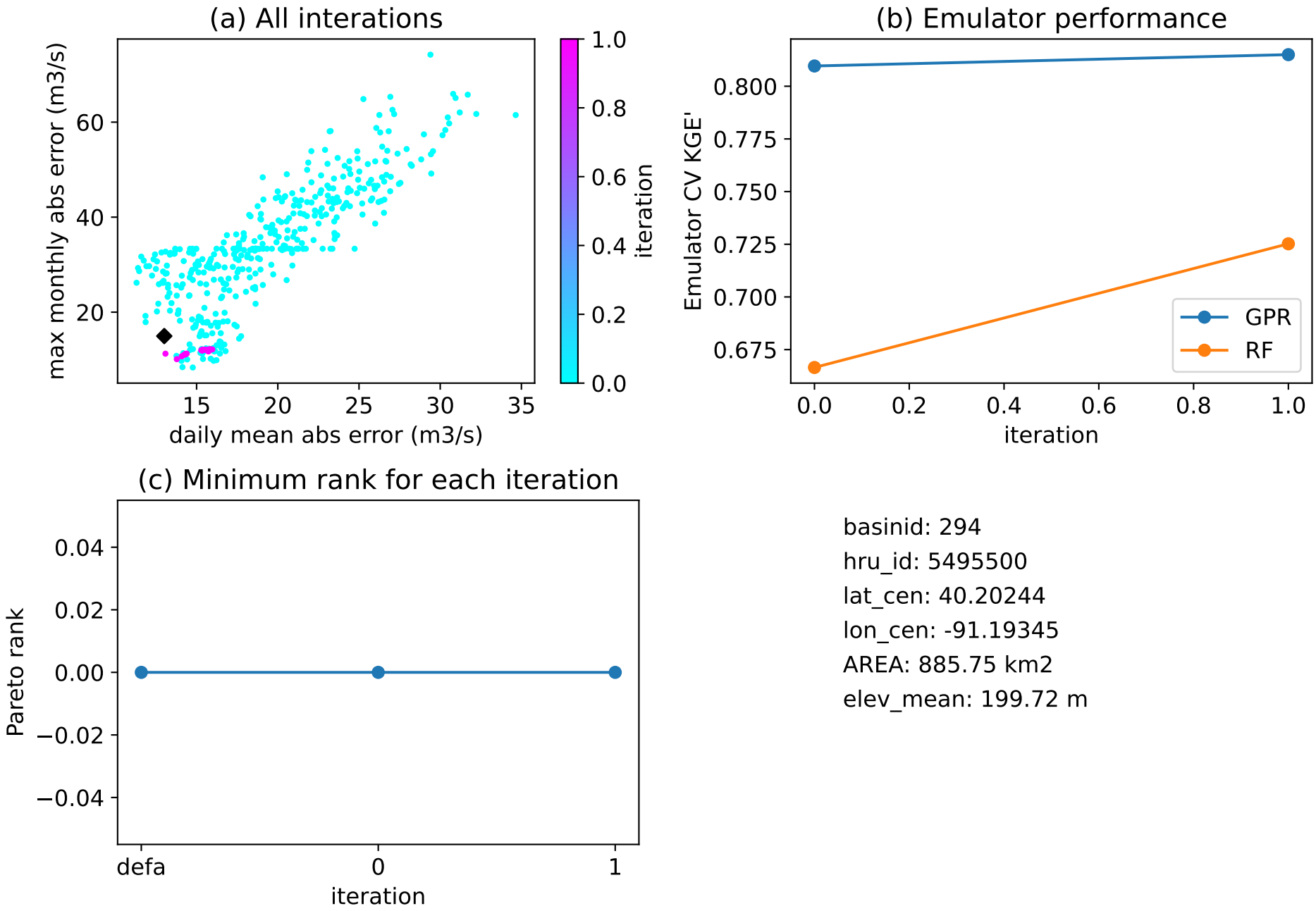

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 292
hru_id: 5489000
lat_cen: 41.05913
lon_cen: -93.01767
AREA: 974.95 km2
elev_mean: 276.72 m

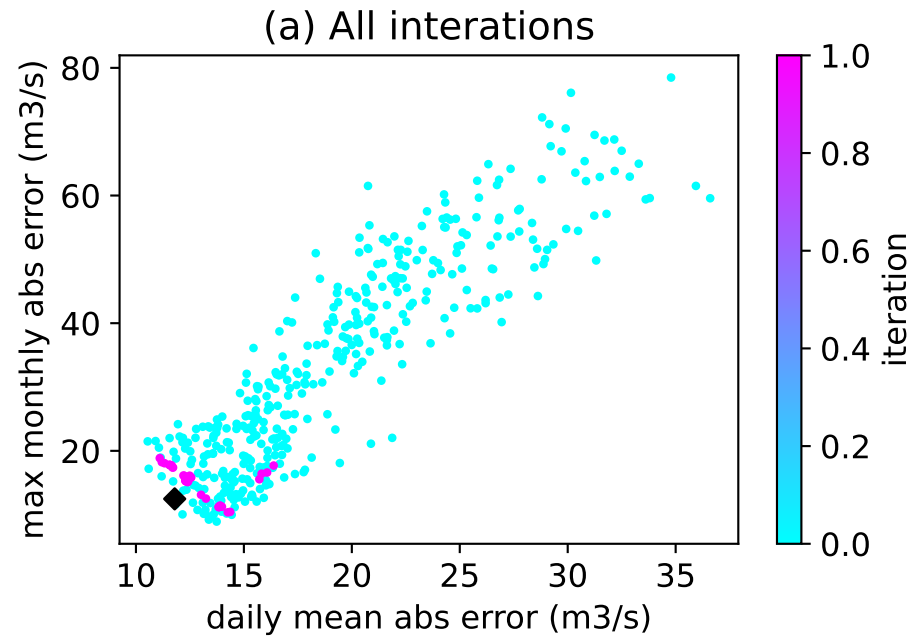


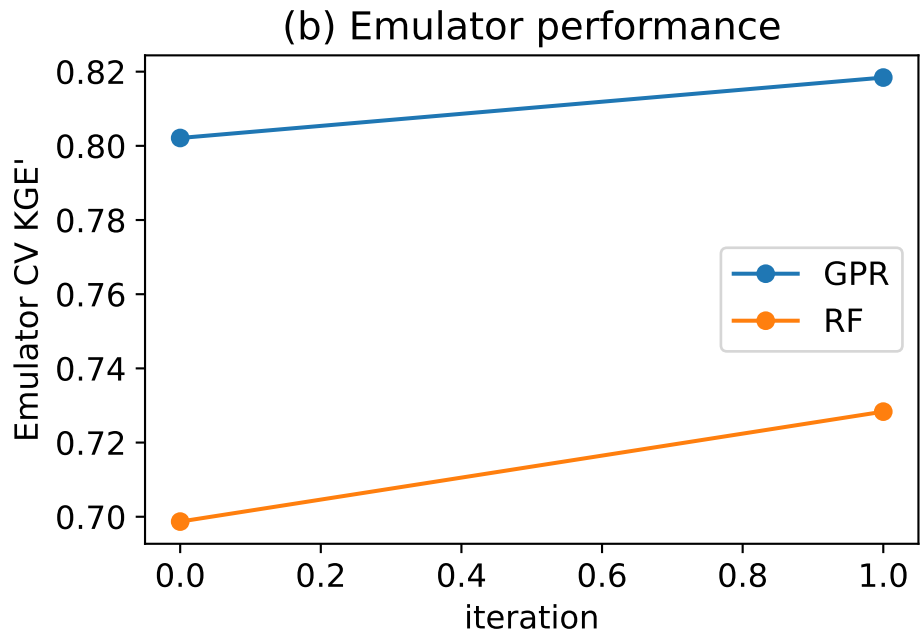


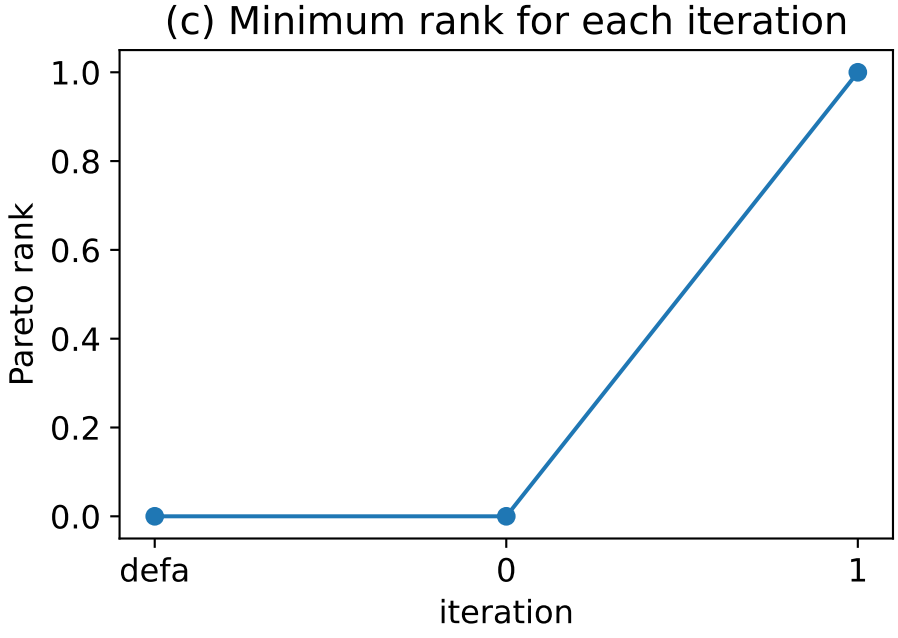


basinid: 293
hru_id: 5495000
lat_cen: 40.62587
lon_cen: -92.1206
AREA: 1029.88 km2
elev_mean: 236.00 m

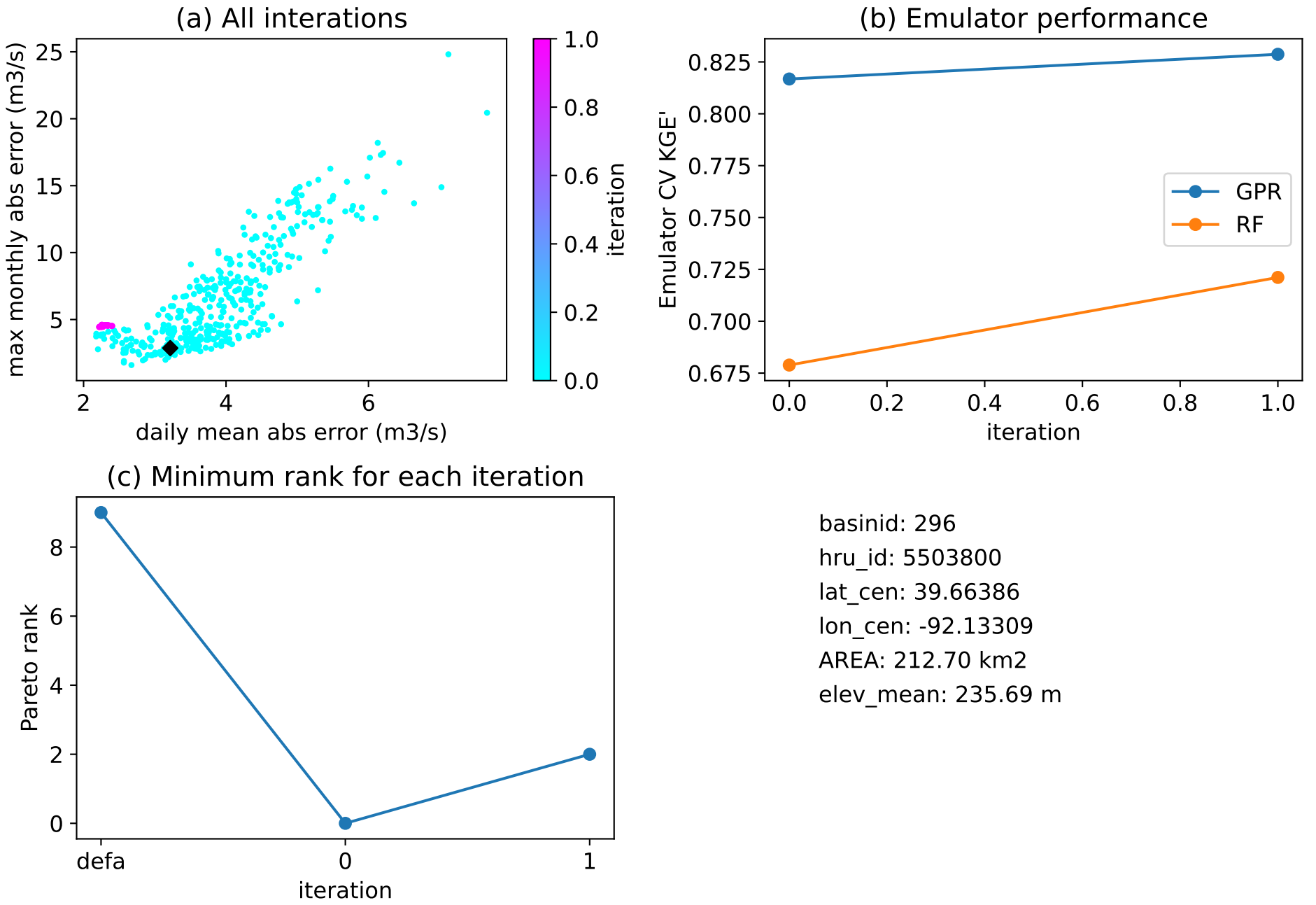

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 294
hru_id: 5495500
lat_cen: 40.20244
lon_cen: -91.19345
AREA: 885.75 km2
elev_mean: 199.72 m

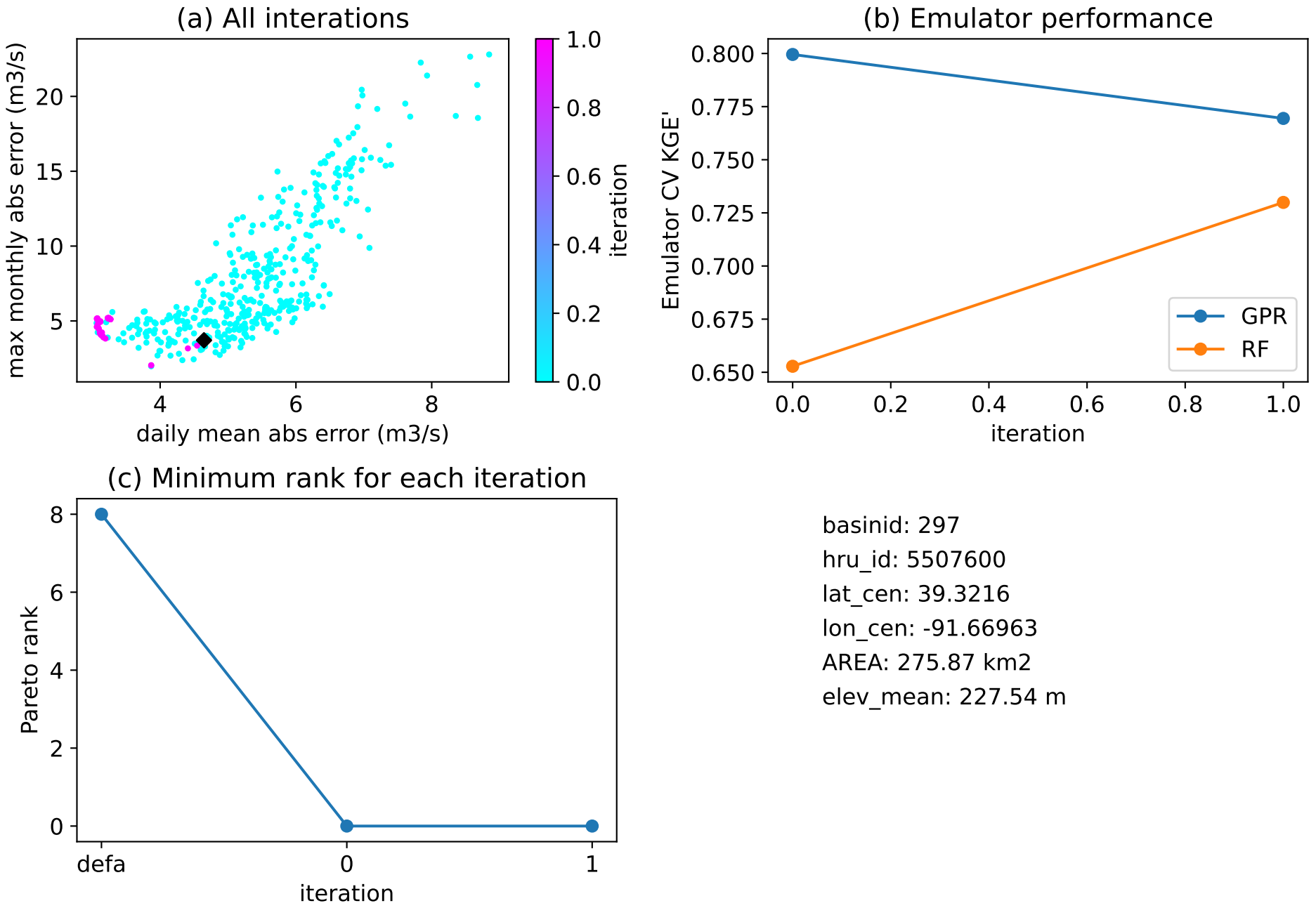


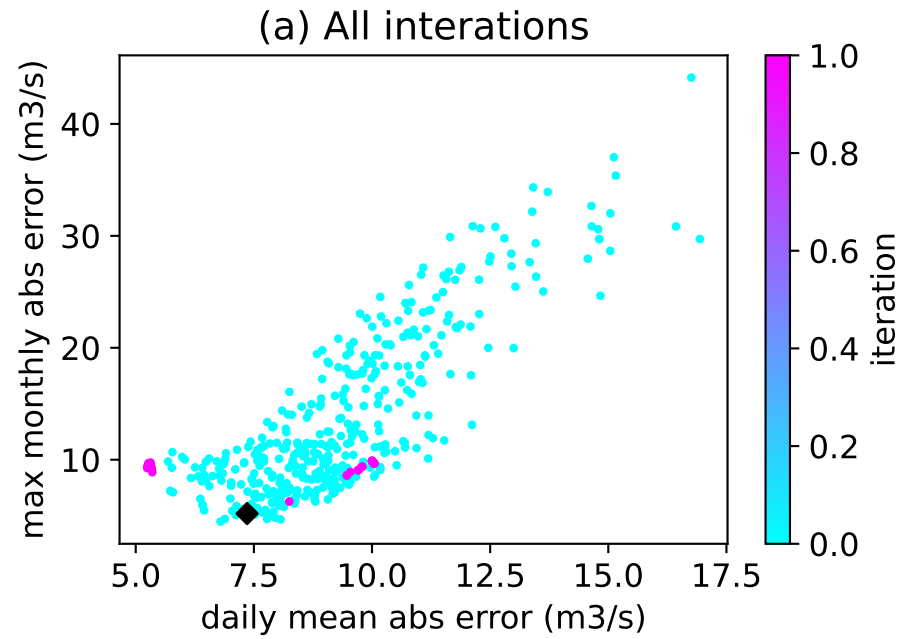


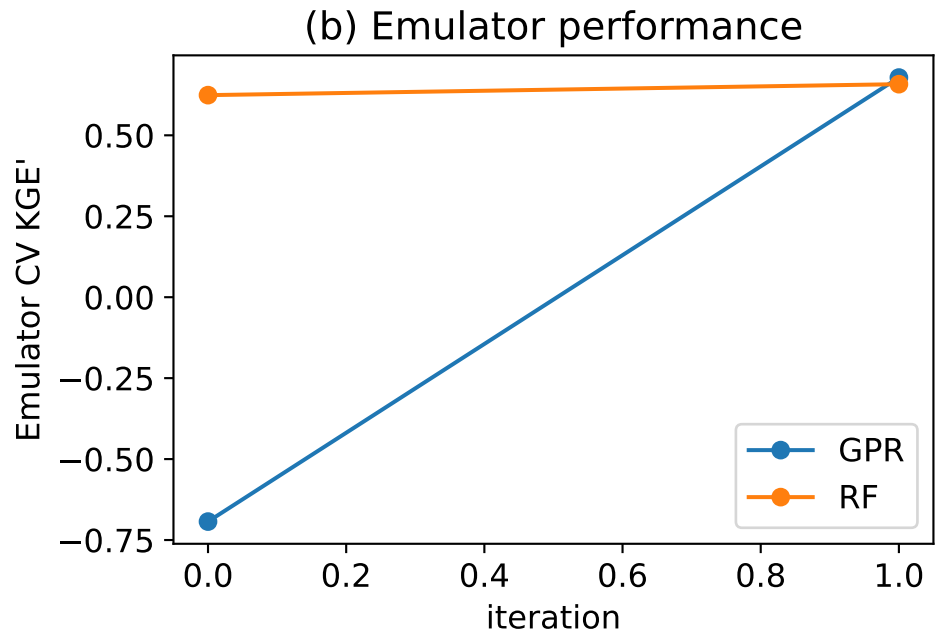


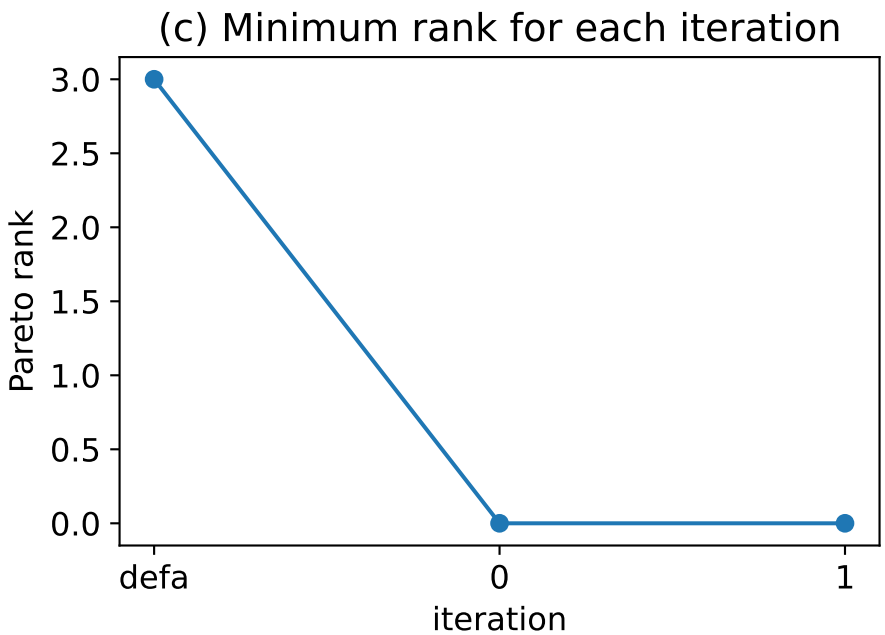
basinid: 295
hru_id: 5501000
lat_cen: 39.81869
lon_cen: -91.85982
AREA: 929.88 km2
elev_mean: 218.23 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 296
hru_id: 5503800
lat_cen: 39.66386
lon_cen: -92.13309
AREA: 212.70 km2
elev_mean: 235.69 m

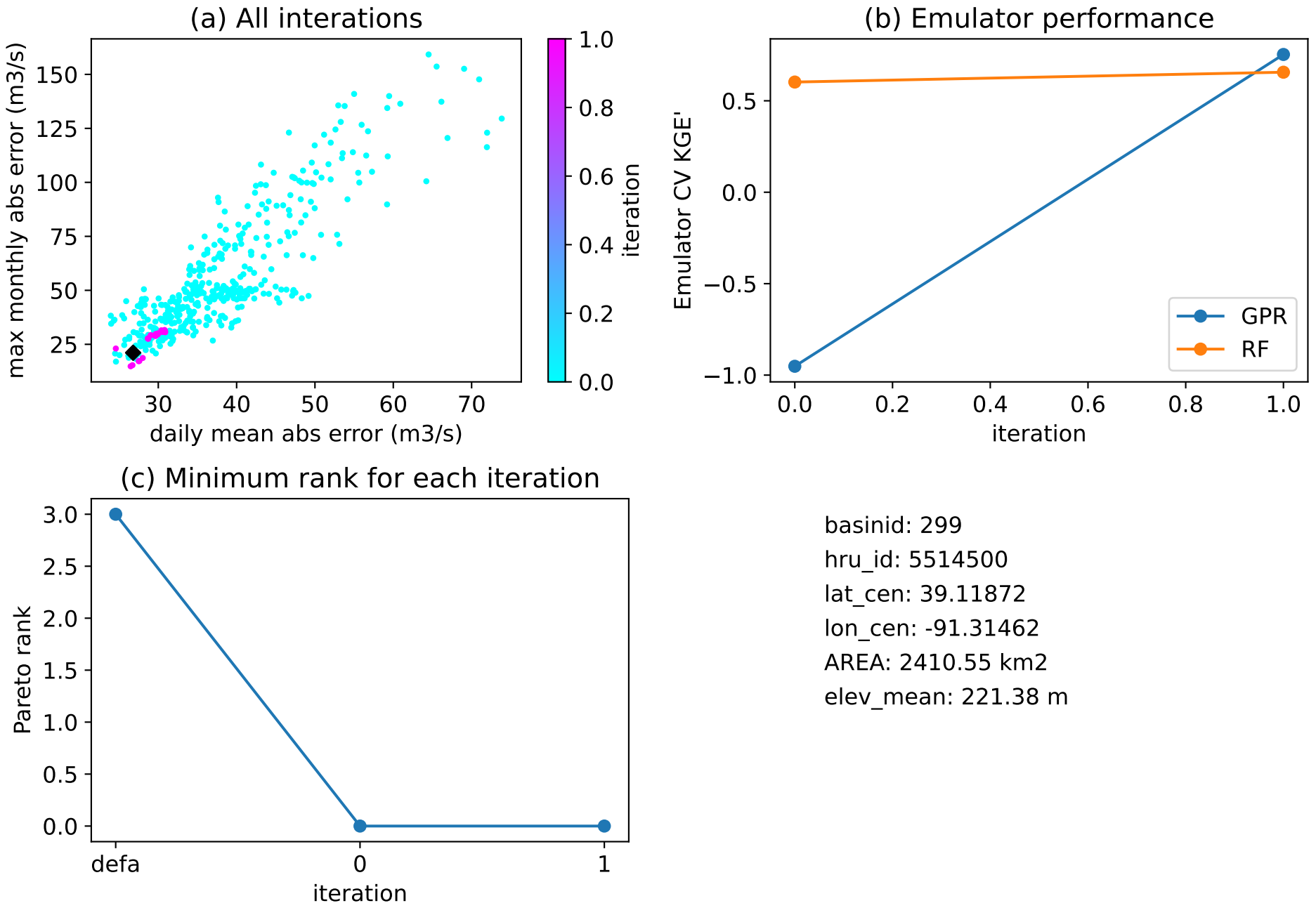

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 297
hru_id: 5507600
lat_cen: 39.3216
lon_cen: -91.66963
AREA: 275.87 km2
elev_mean: 227.54 m

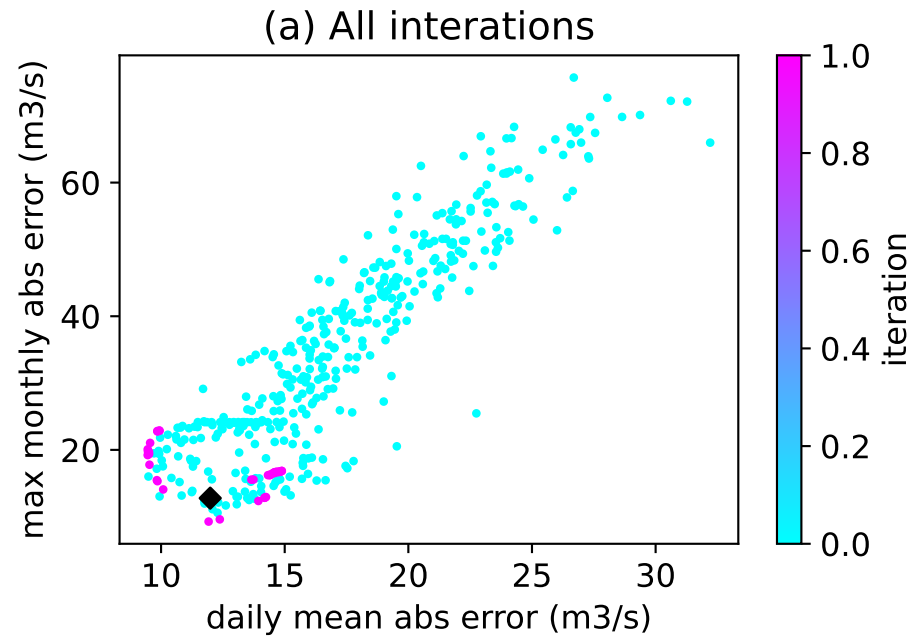


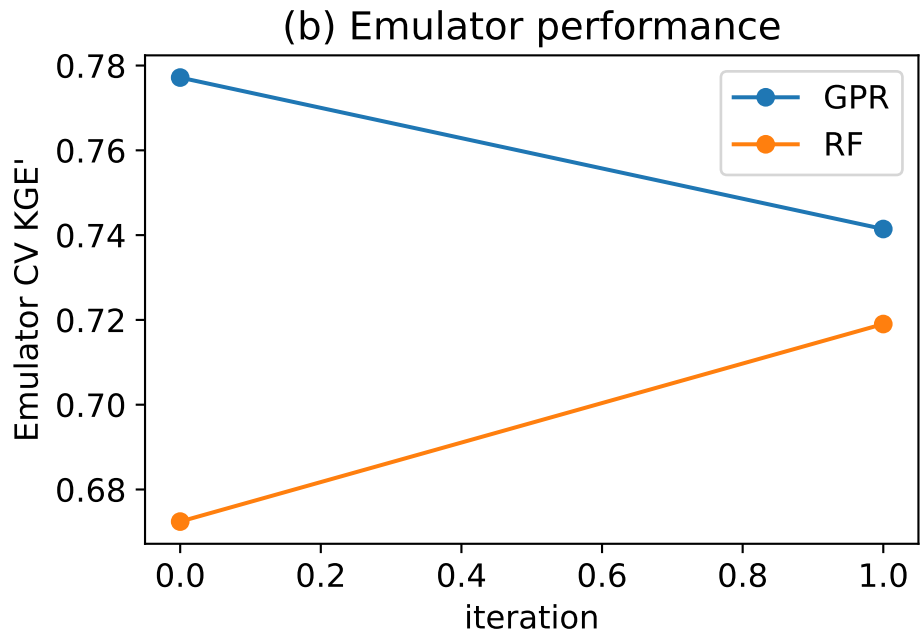


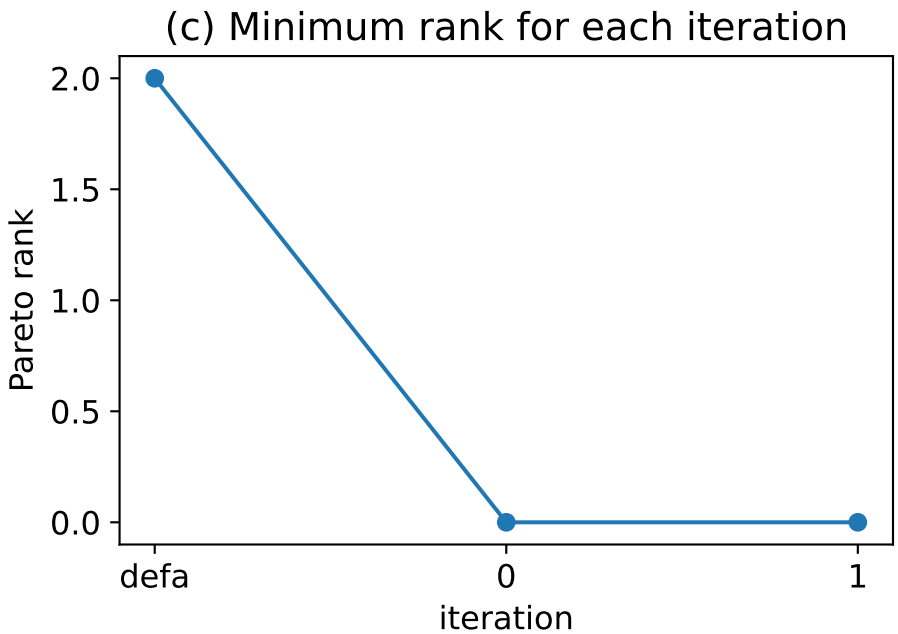


basinid: 298
hru_id: 5508805
lat_cen: 39.41802
lon_cen: -91.46657
AREA: 536.52 km2
elev_mean: 218.06 m

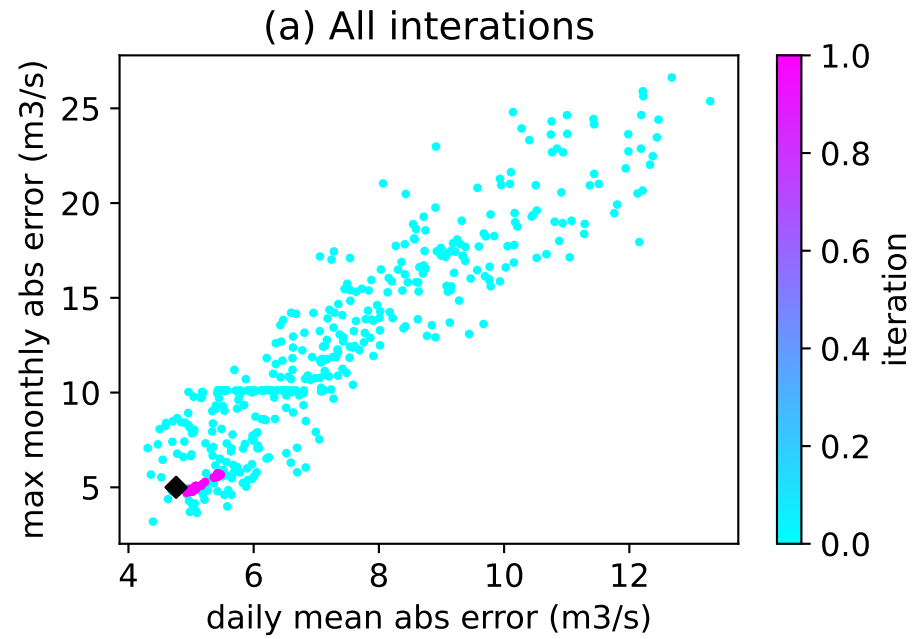

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 299
hru_id: 5514500
lat_cen: 39.11872
lon_cen: -91.31462
AREA: 2410.55 km2
elev_mean: 221.38 m

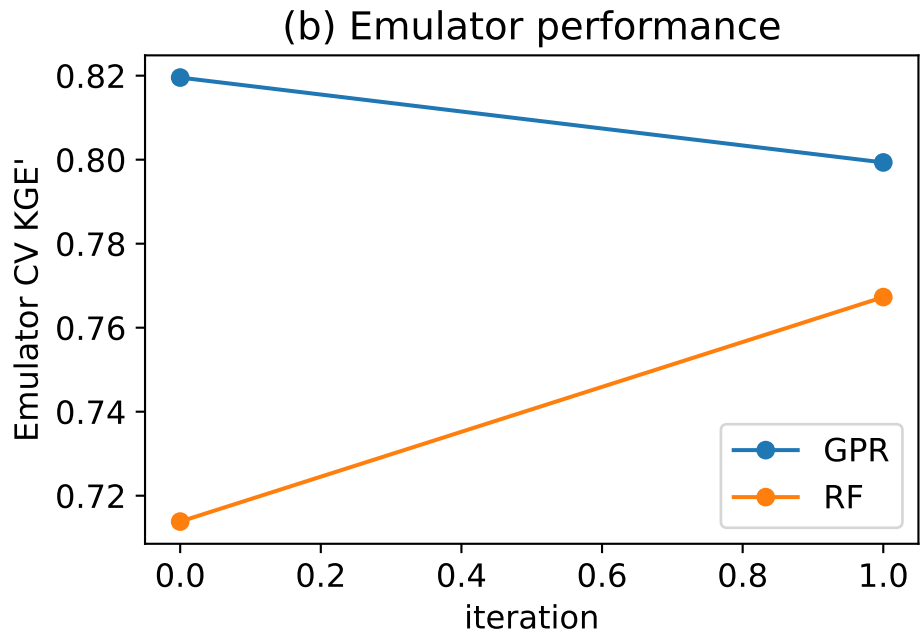


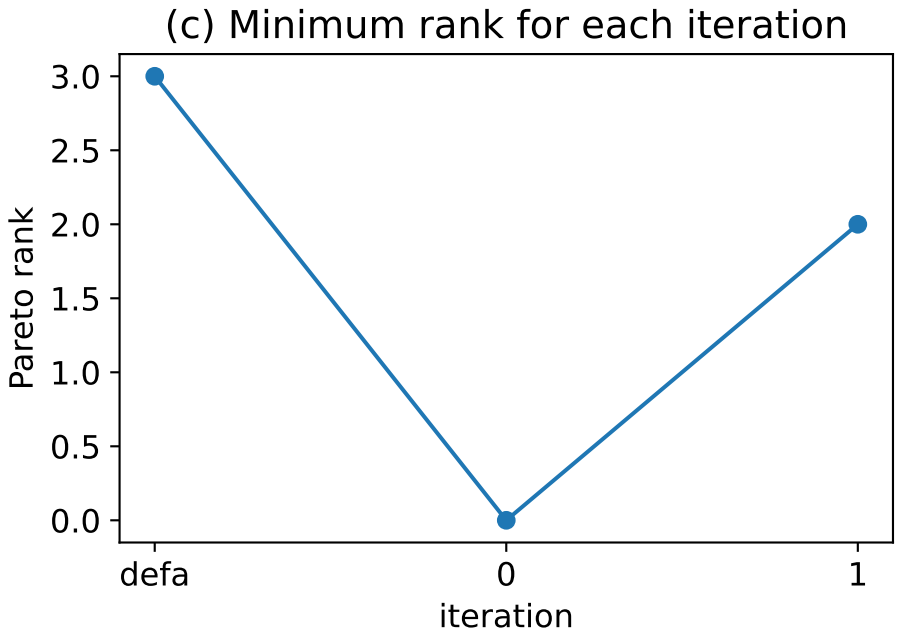




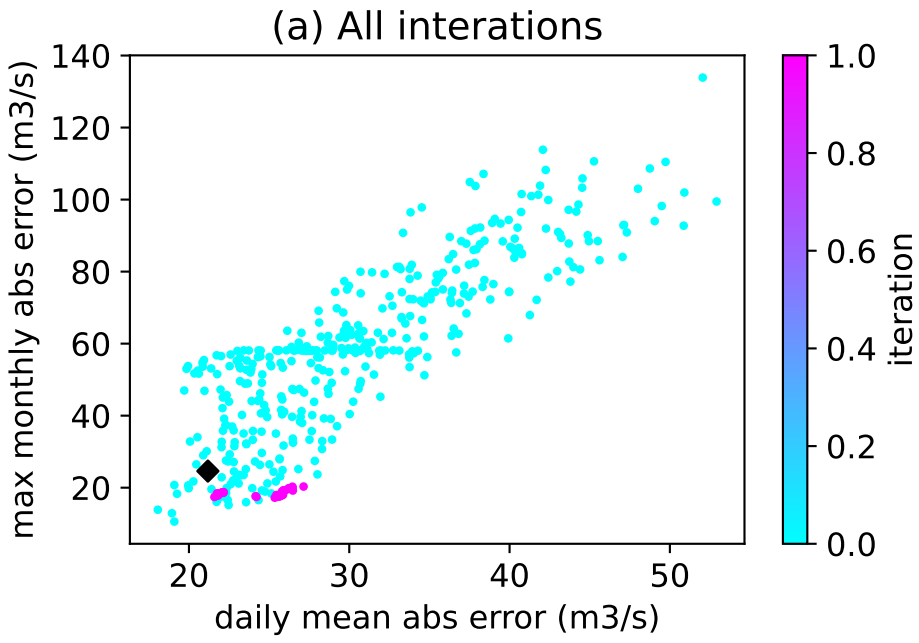
basinid: 300
hru_id: 5525500
lat_cen: 40.56901
lon_cen: -87.69909
AREA: 1158.26 km2
elev_mean: 217.42 m

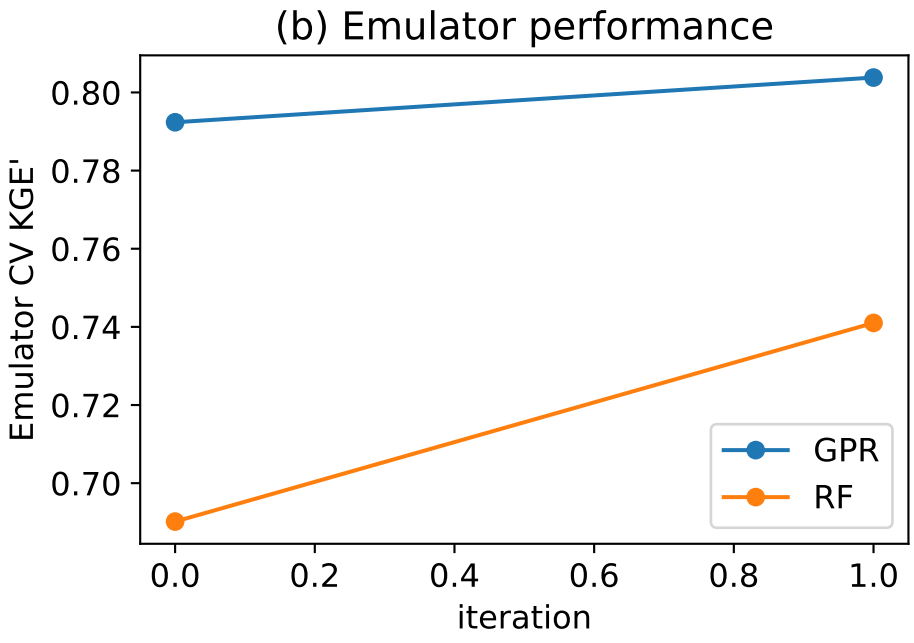


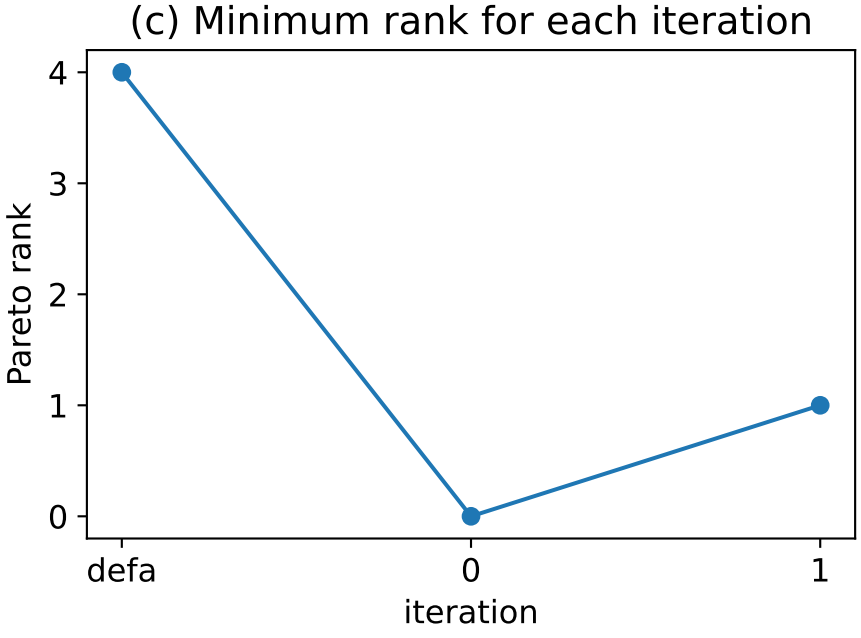




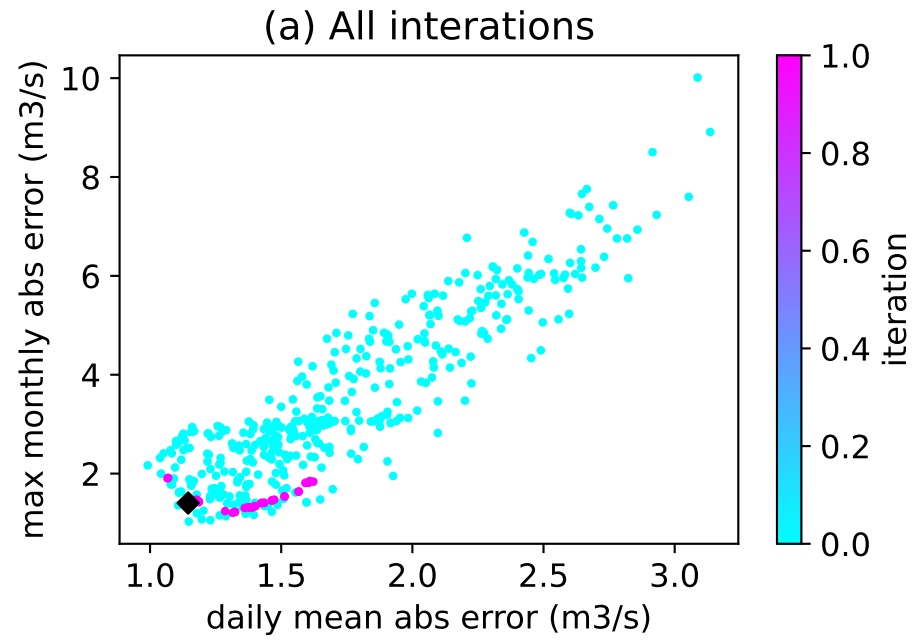
basinid: 301
hru_id: 5556500
lat_cen: 41.55567
lon_cen: -89.29558
AREA: 507.09 km2
elev_mean: 248.71 m

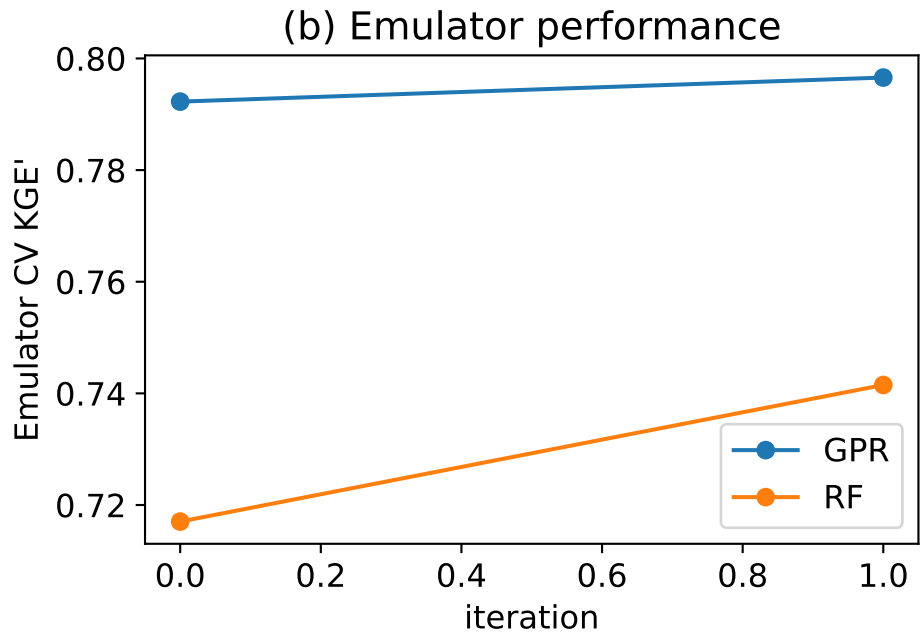


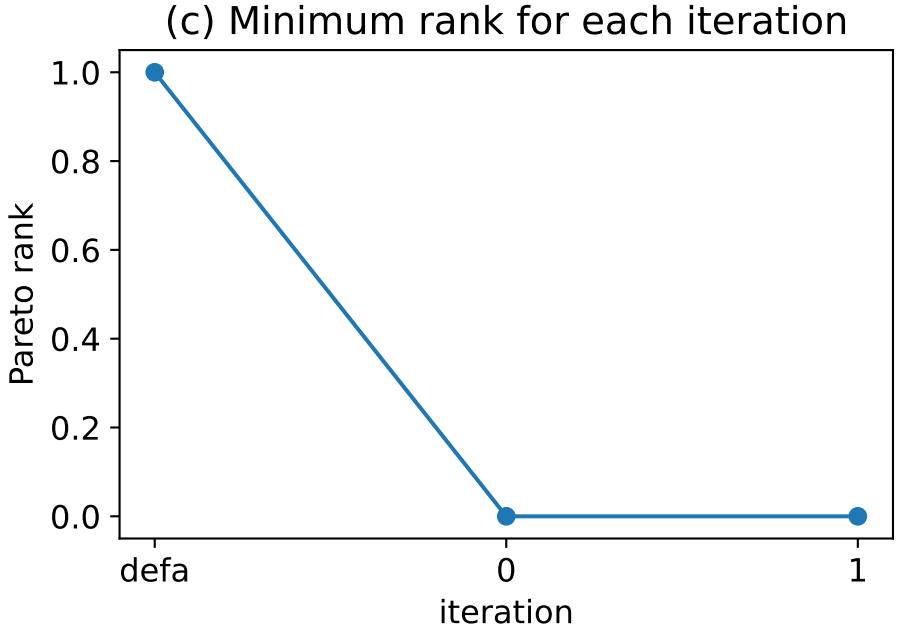




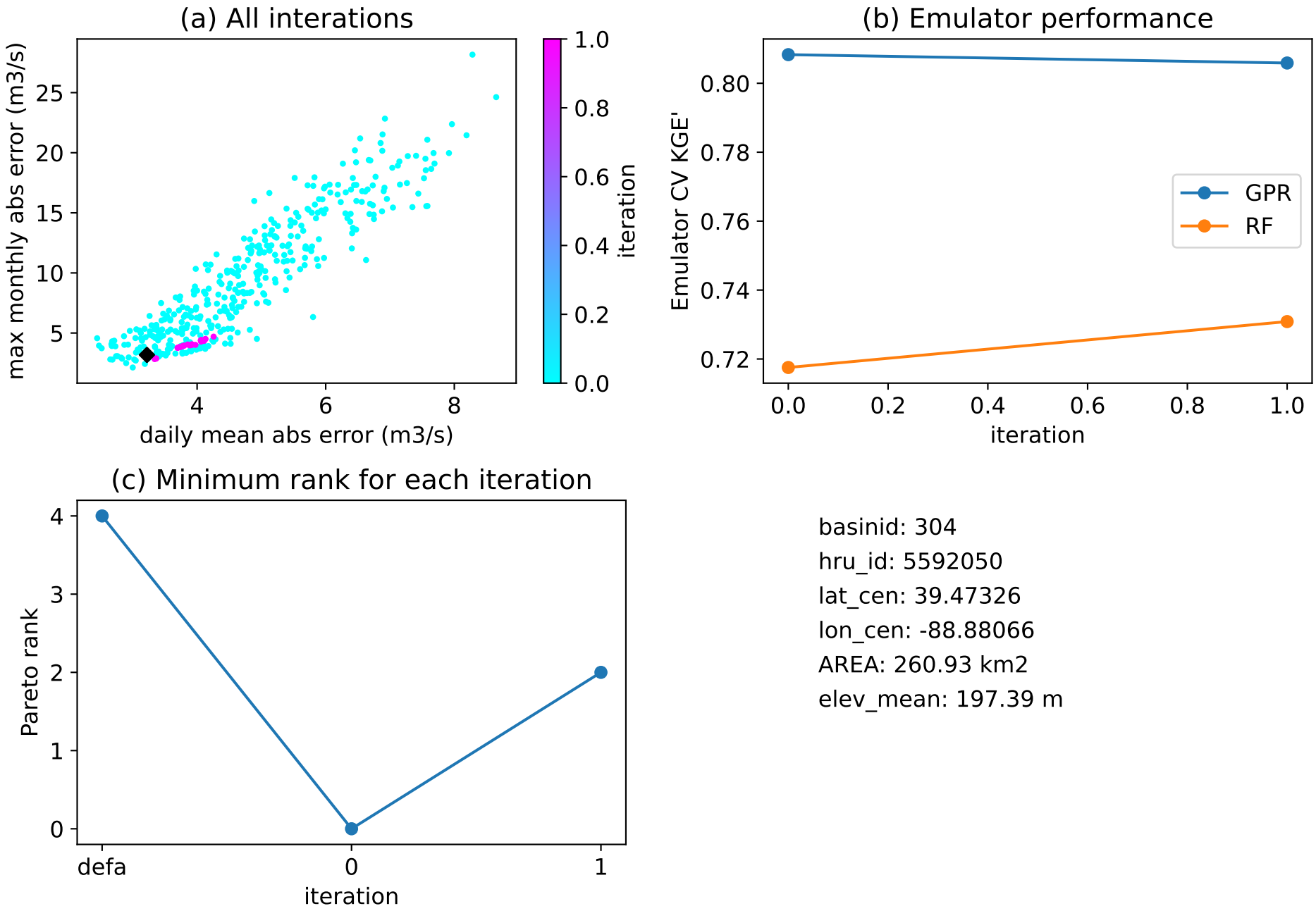
basinid: 302
hru_id: 5584500
lat_cen: 40.49562
lon_cen: -90.88143
AREA: 1711.92 km2
elev_mean: 205.07 m

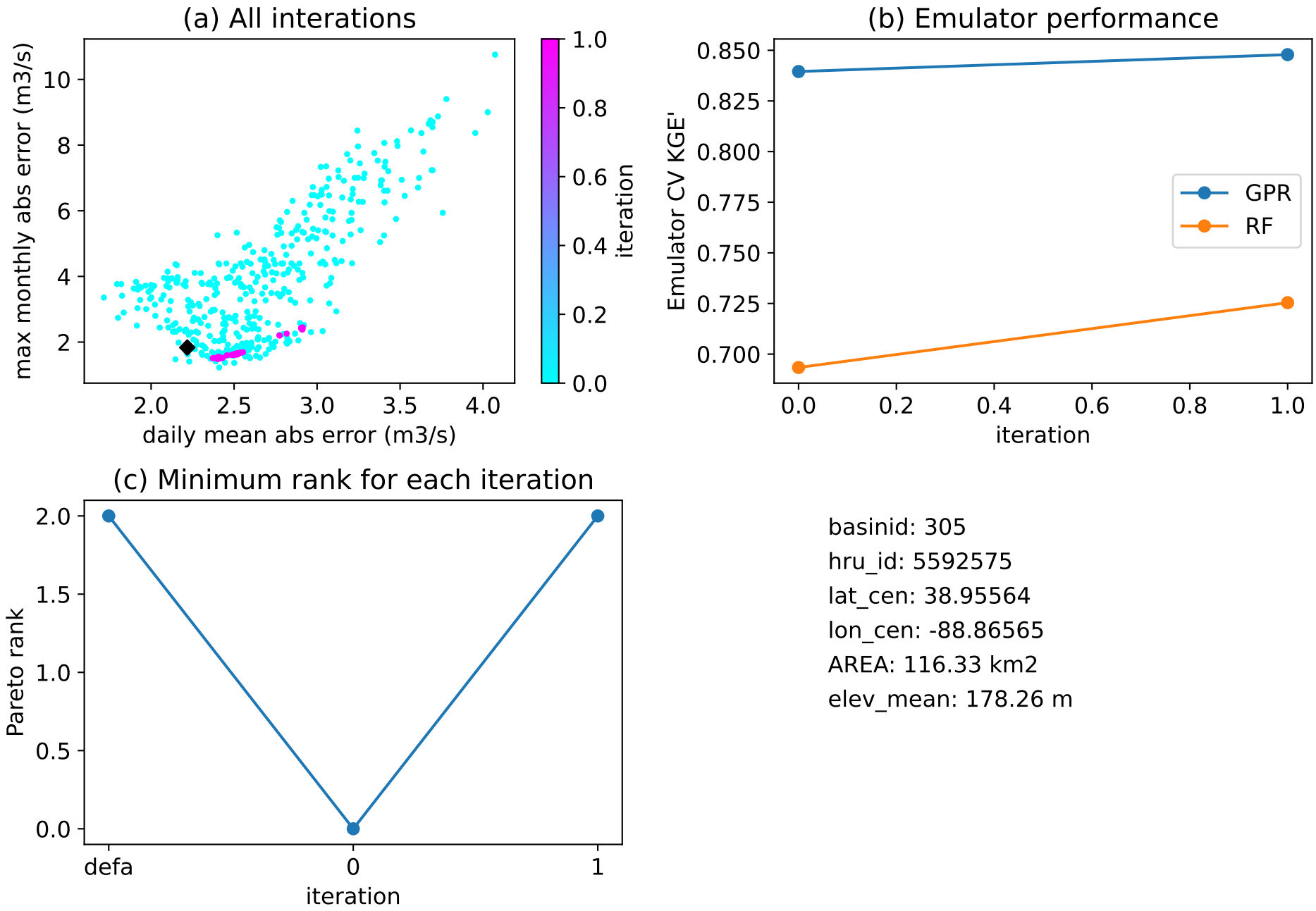


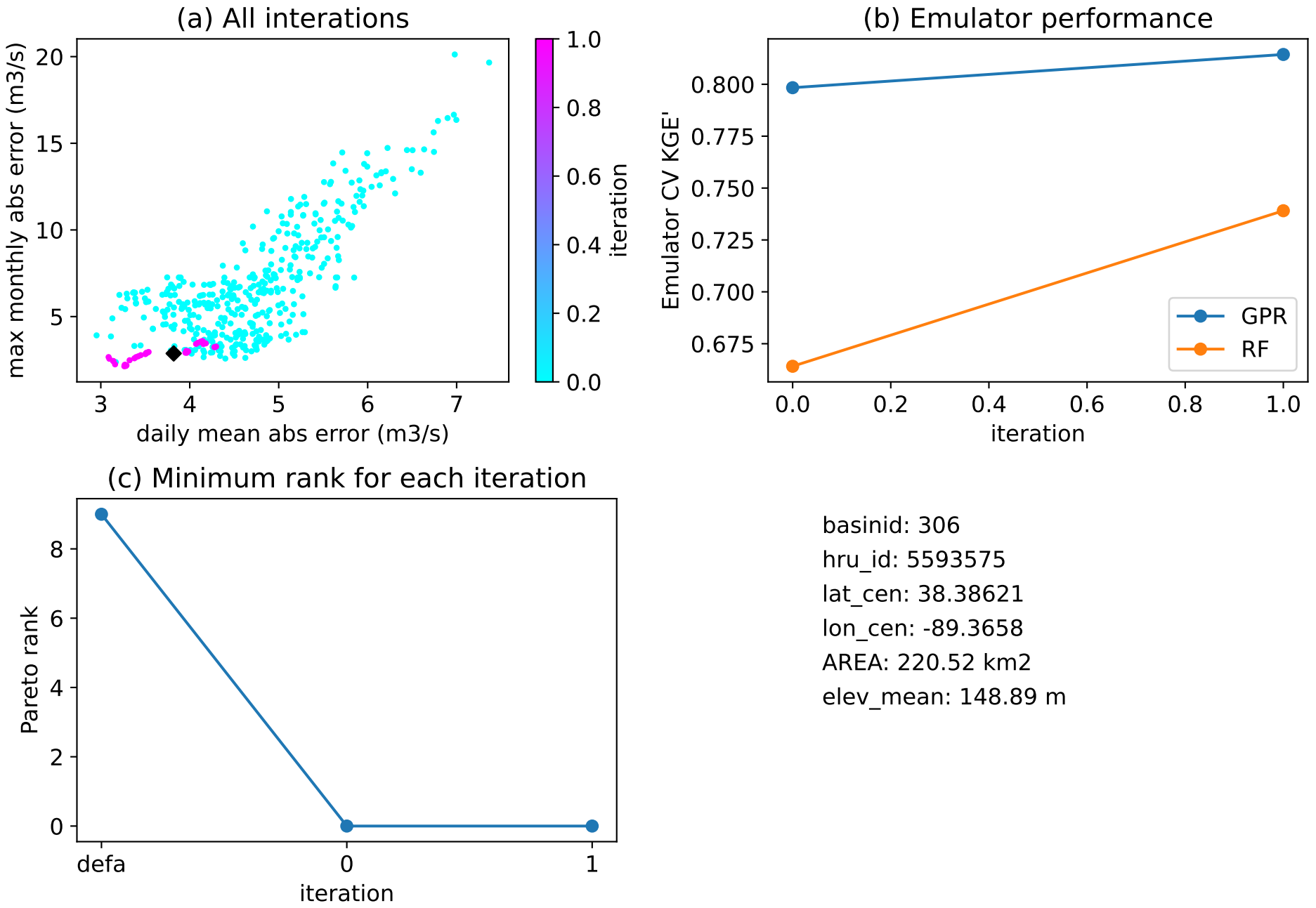


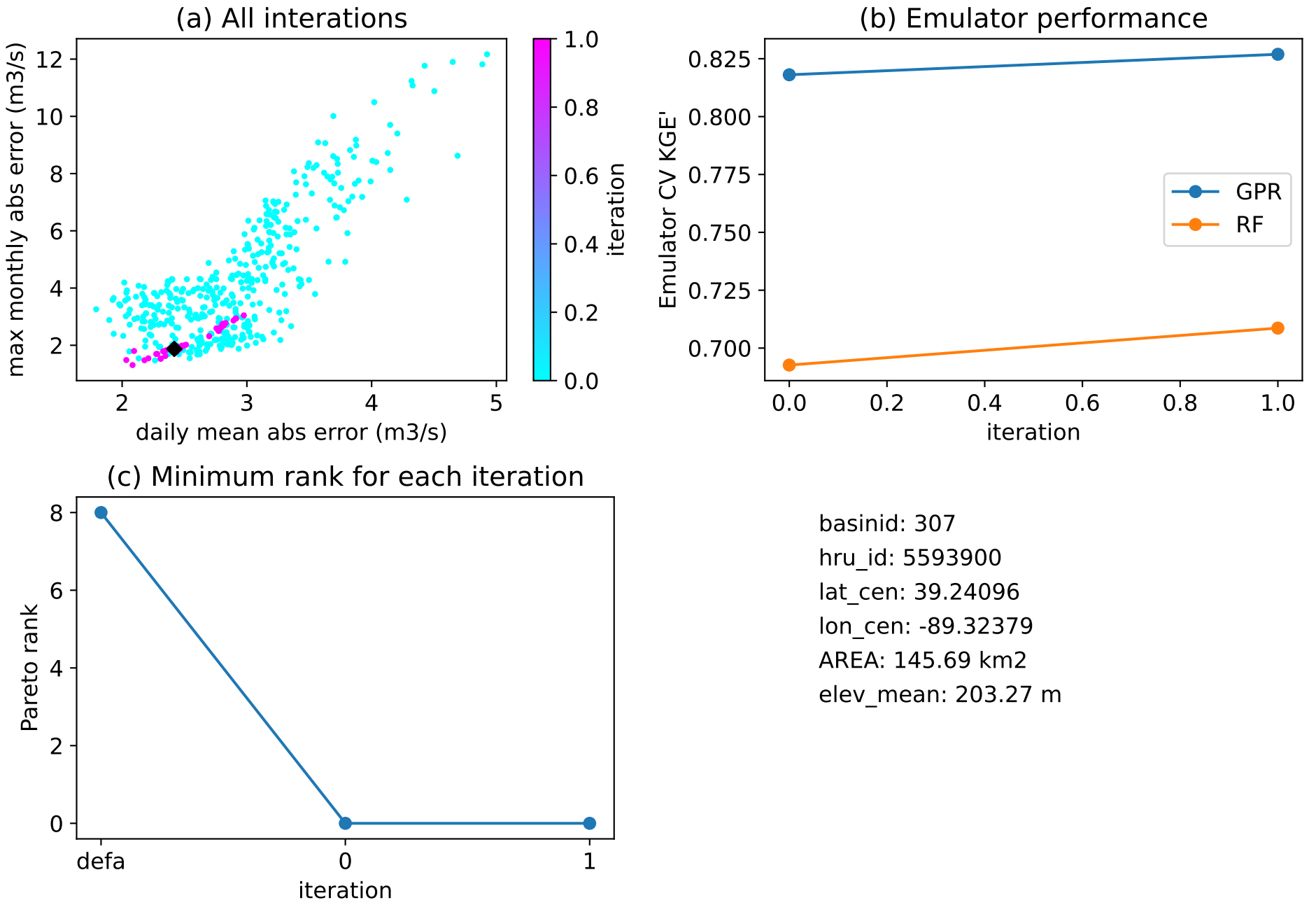


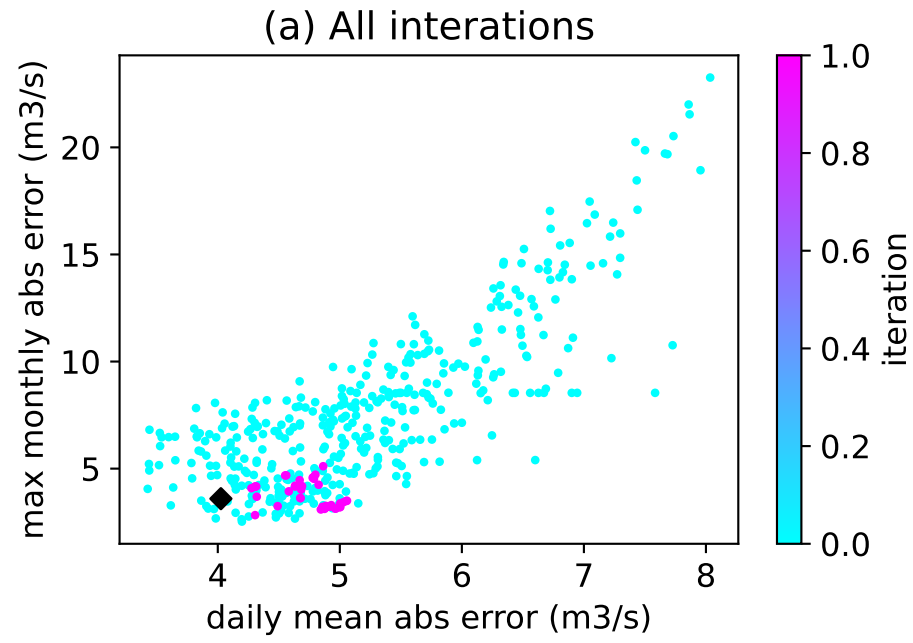
basinid: 303
hru_id: 5591550
lat_cen: 39.50988
lon_cen: -88.43897
AREA: 97.12 km2
elev_mean: 209.64 m

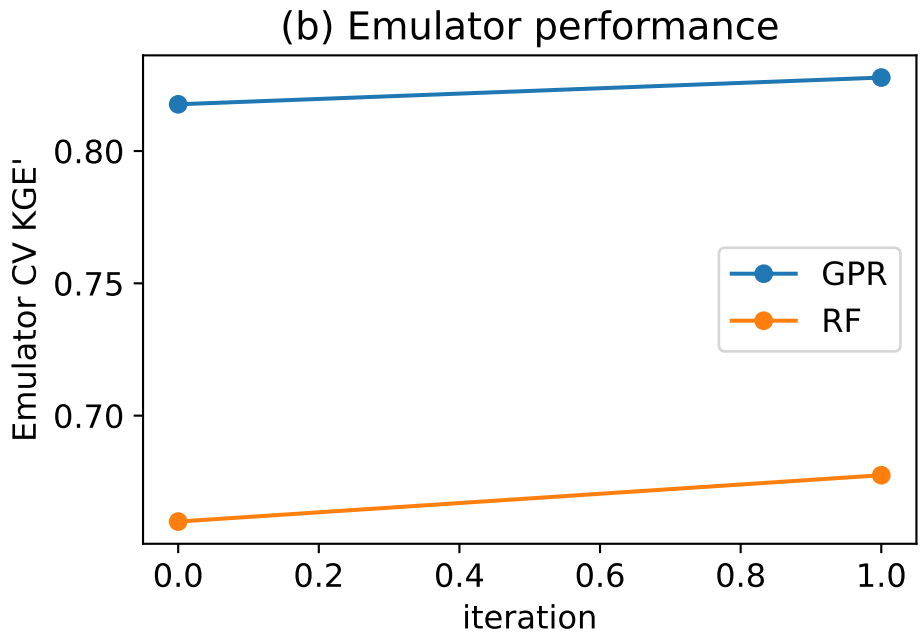

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 304
hru_id: 5592050
lat_cen: 39.47326
lon_cen: -88.88066
AREA: 260.93 km2
elev_mean: 197.39 m

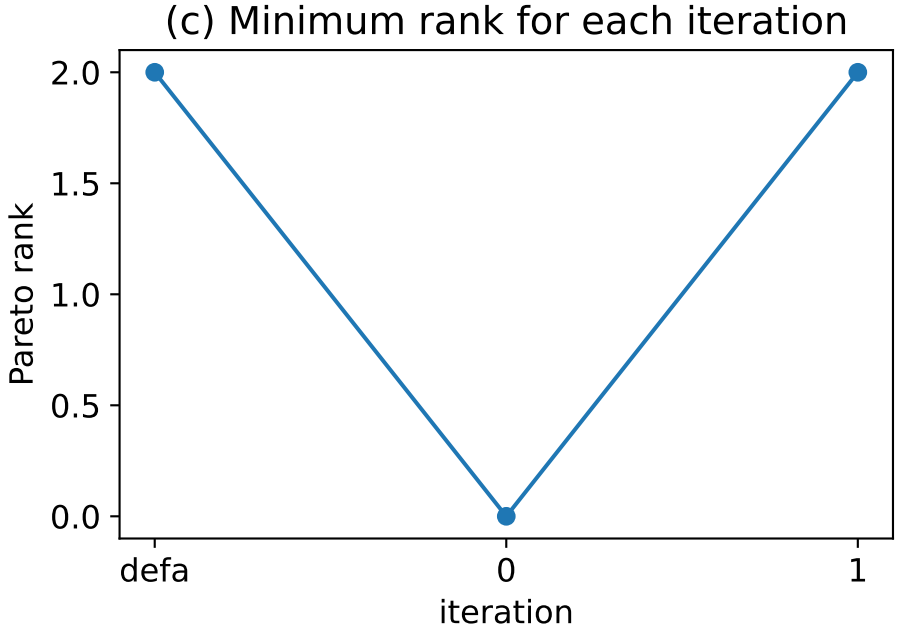

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 305
hru_id: 5592575
lat_cen: 38.95564
lon_cen: -88.86565
AREA: 116.33 km2
elev_mean: 178.26 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 306
hru_id: 5593575
lat_cen: 38.38621
lon_cen: -89.3658
AREA: 220.52 km2
elev_mean: 148.89 m

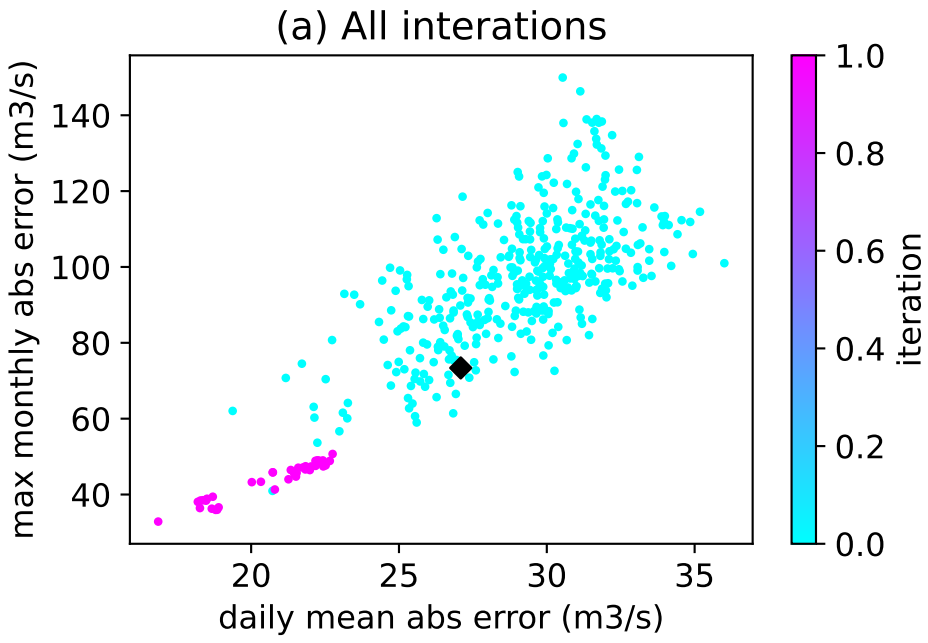

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 307
hru_id: 5593900
lat_cen: 39.24096
lon_cen: -89.32379
AREA: 145.69 km2
elev_mean: 203.27 m

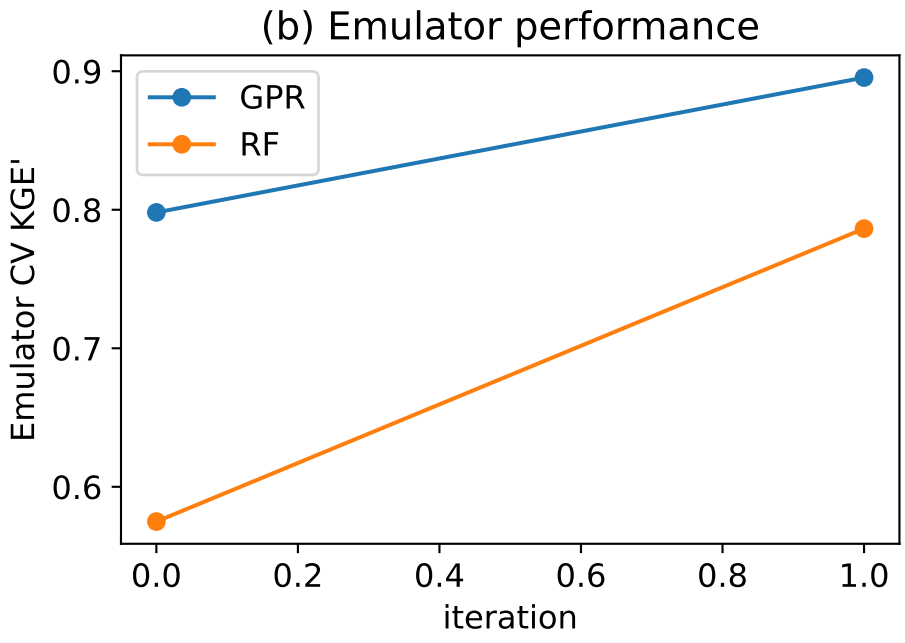


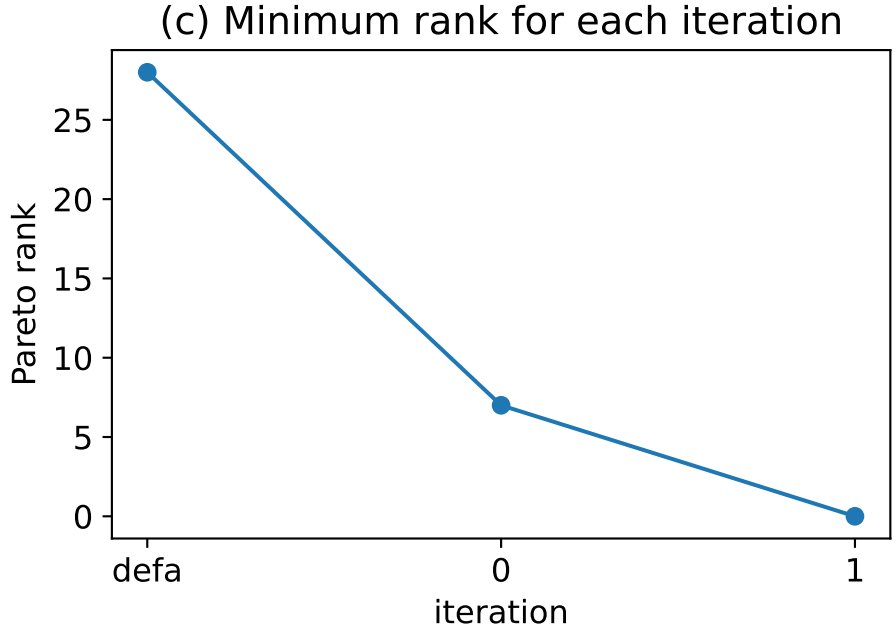




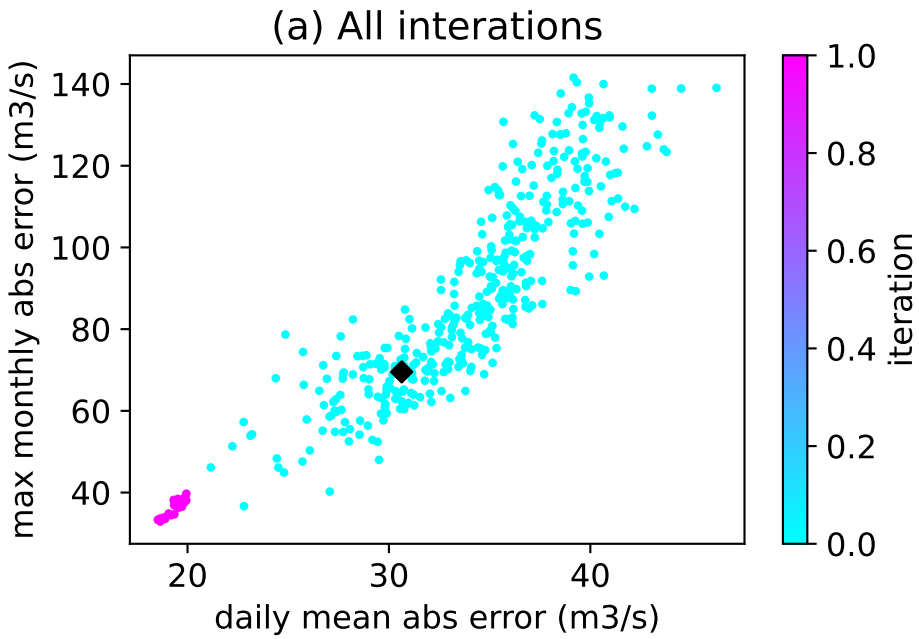
basinid: 308
hru_id: 5595730
lat_cen: 38.33481
lon_cen: -89.10923
AREA: 233.33 km2
elev_mean: 154.00 m

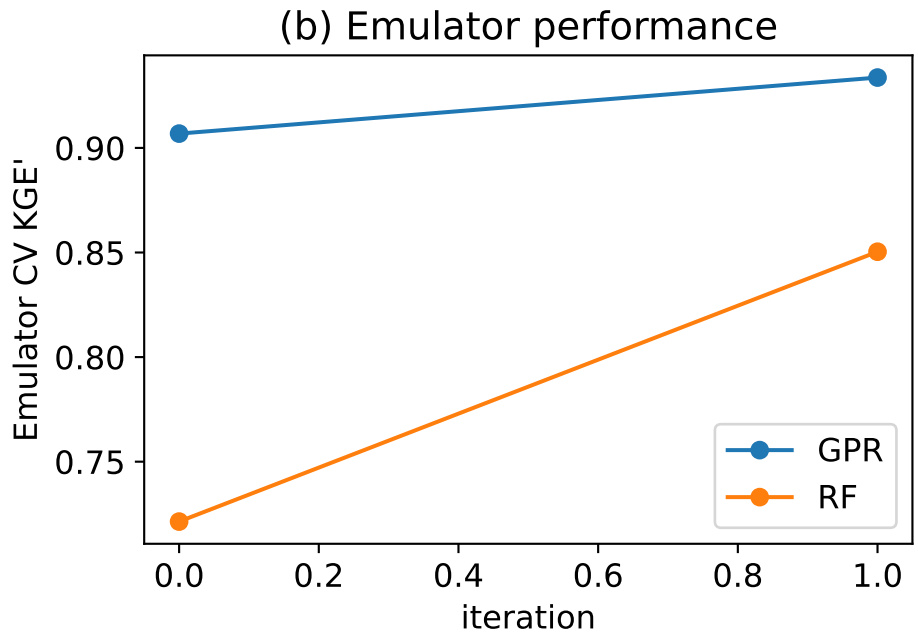


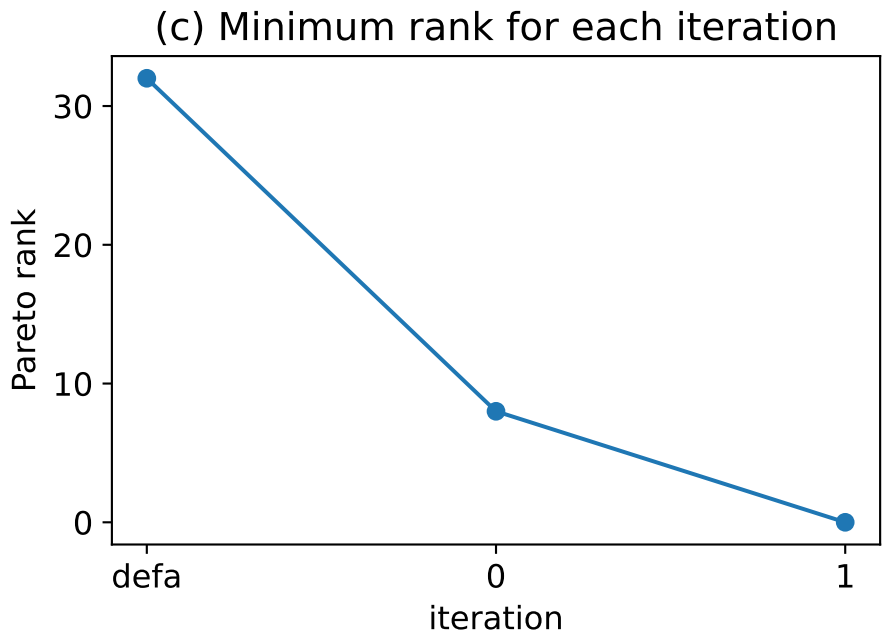




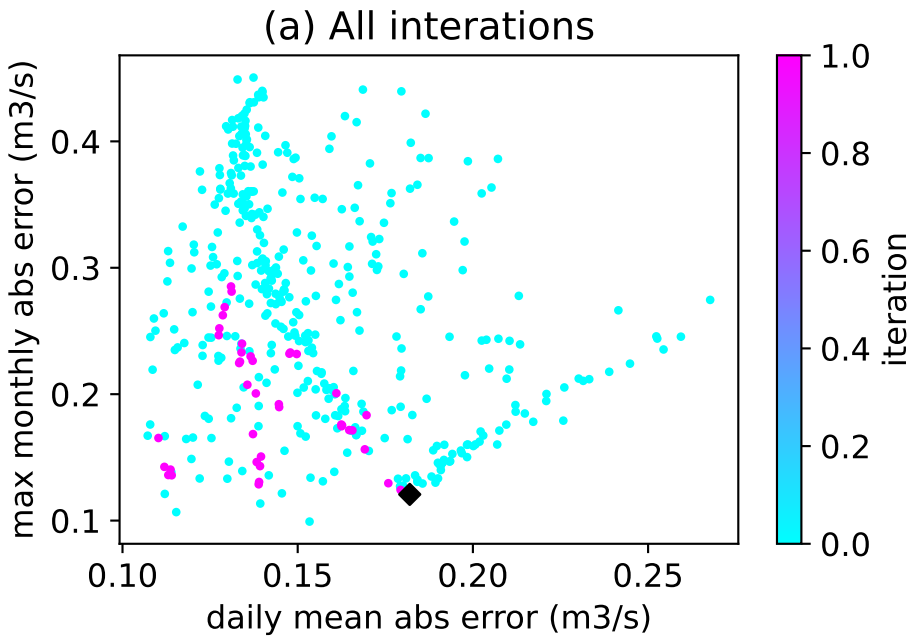
basinid: 309
hru_id: 6037500
lat_cen: 44.58498
lon_cen: -110.78422
AREA: 1127.60 km2
elev_mean: 2408.53 m

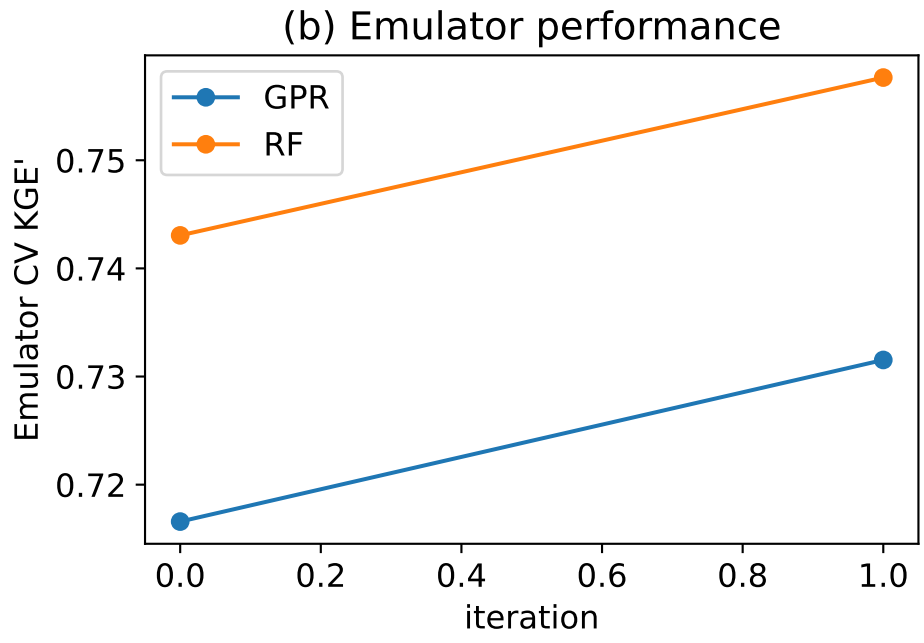


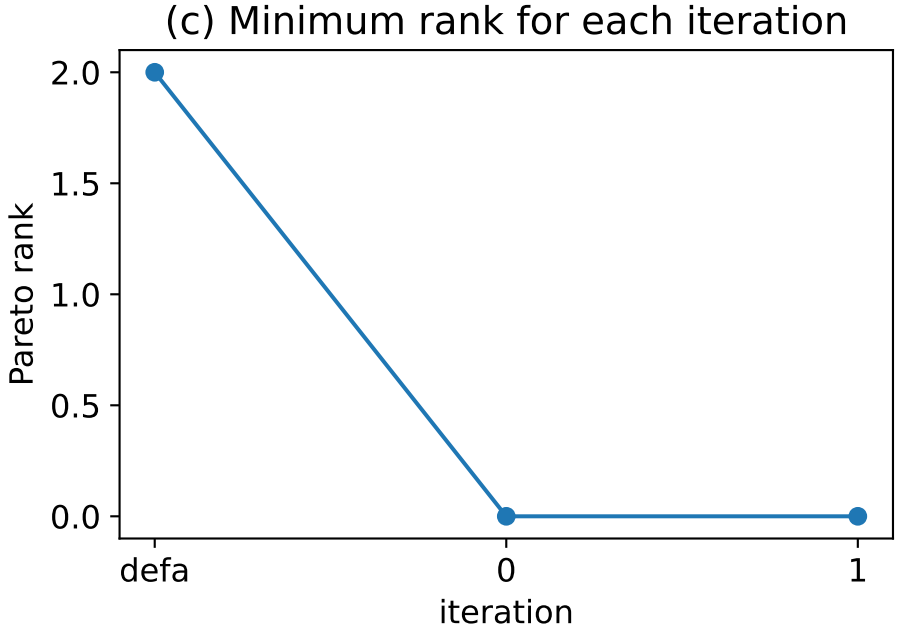




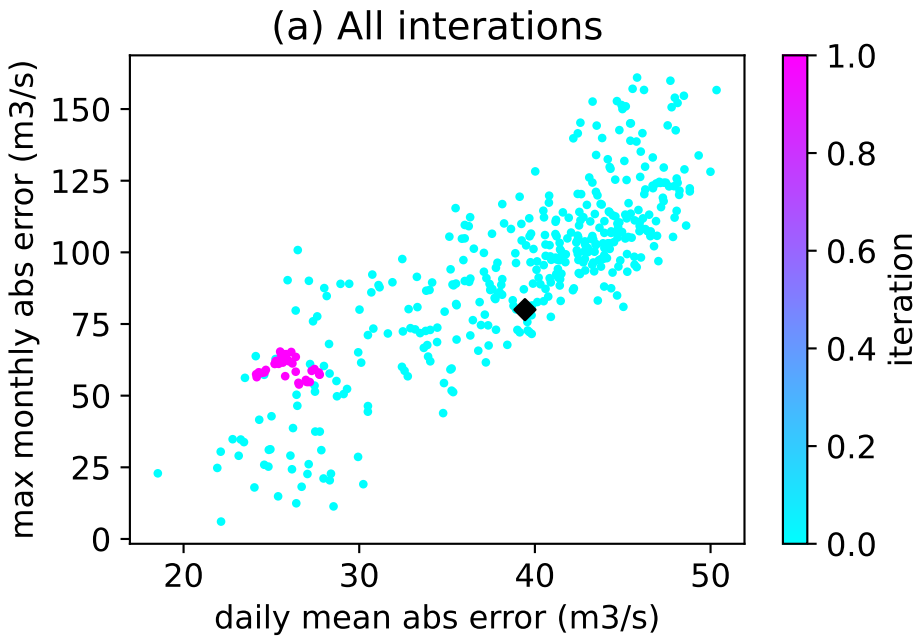
basinid: 310
hru_id: 6043500
lat_cen: 45.19387
lon_cen: -111.22098
AREA: 2120.50 km2
elev_mean: 2408.76 m

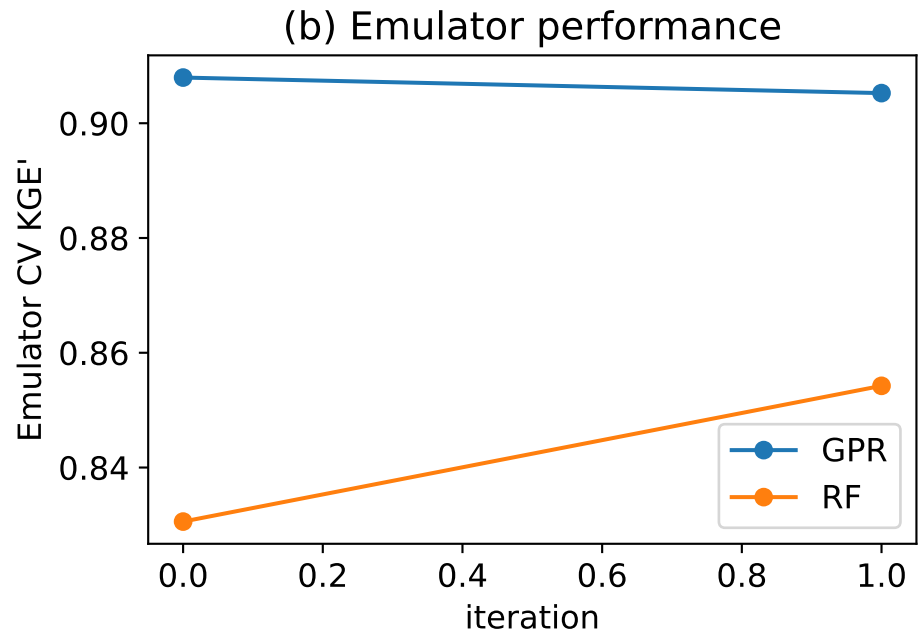


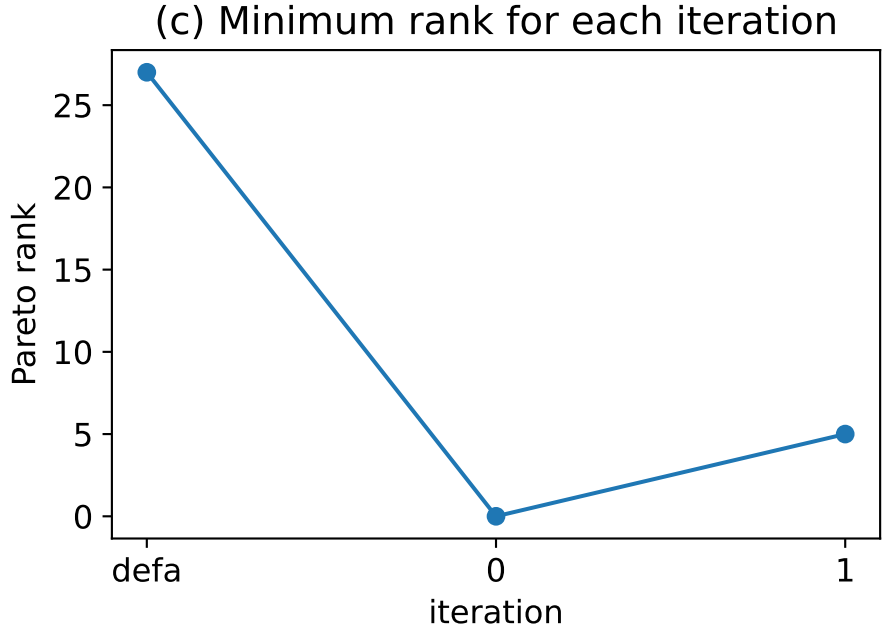




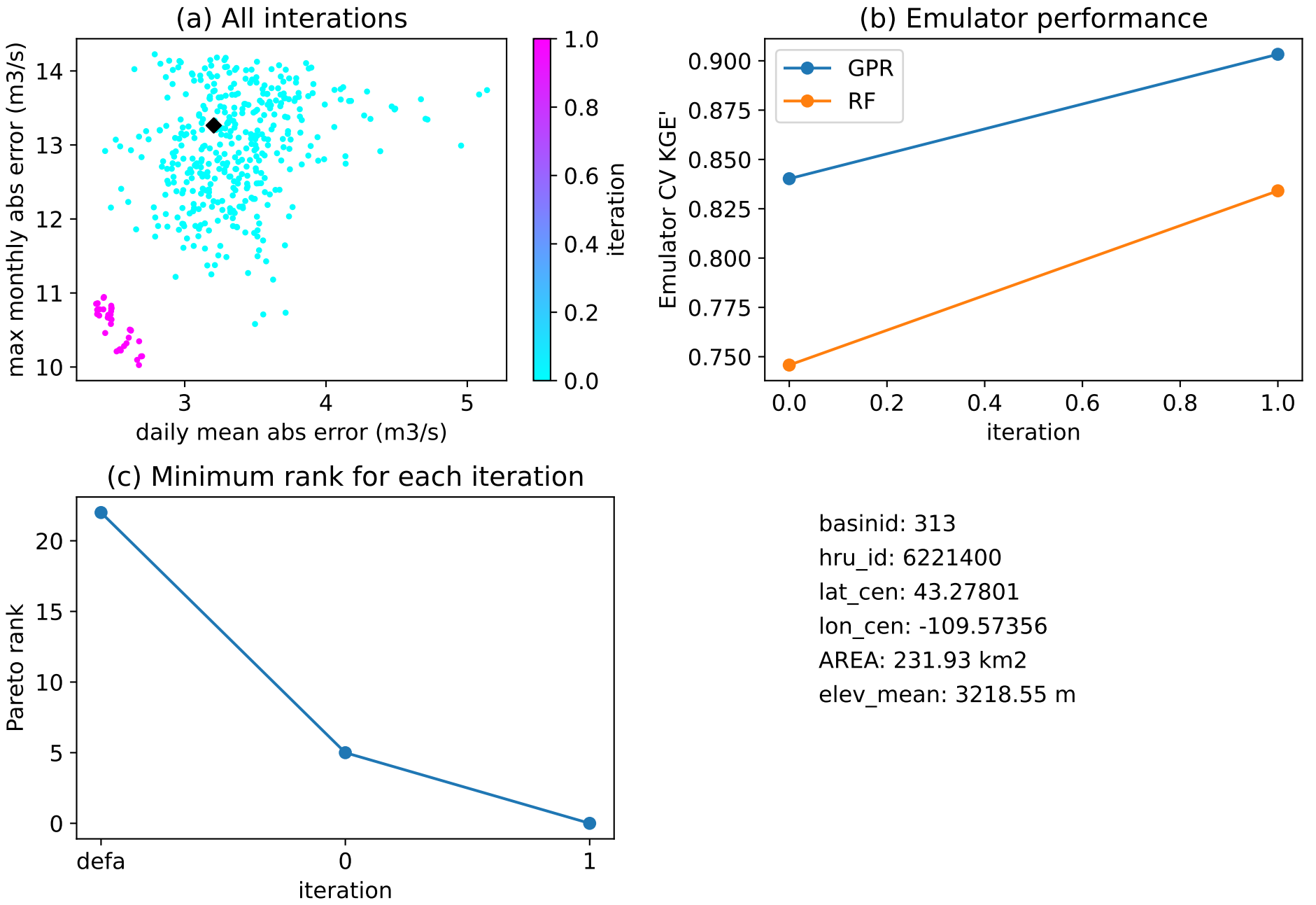
basinid: 311
hru_id: 6154410
lat_cen: 47.95907
lon_cen: -108.63415
AREA: 47.72 km2
elev_mean: 1321.98 m

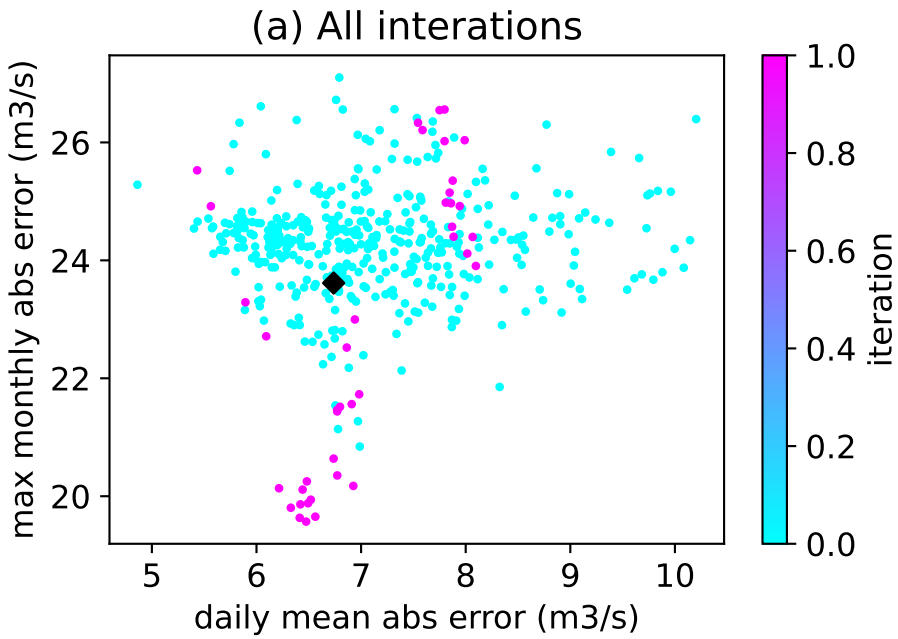


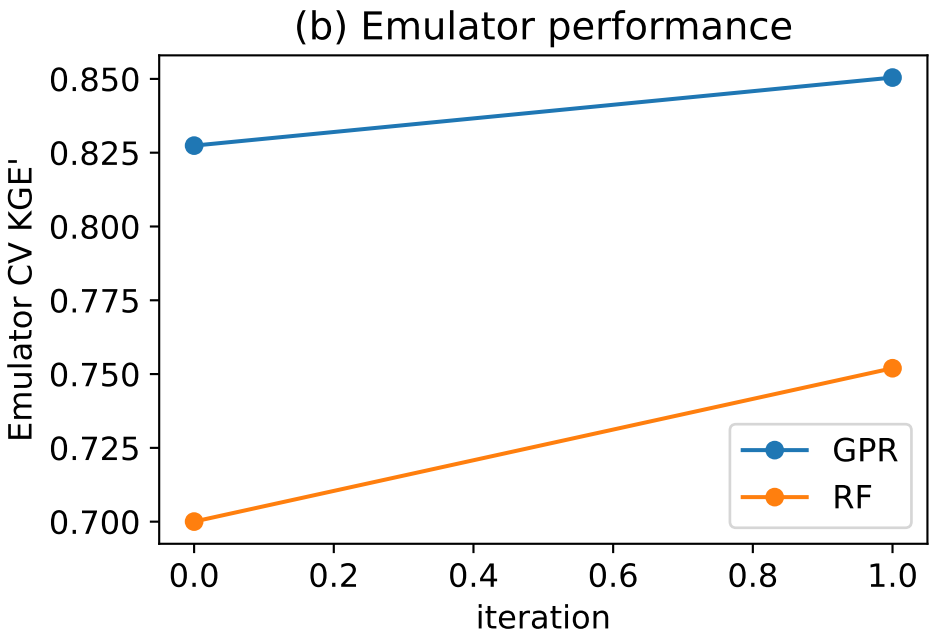


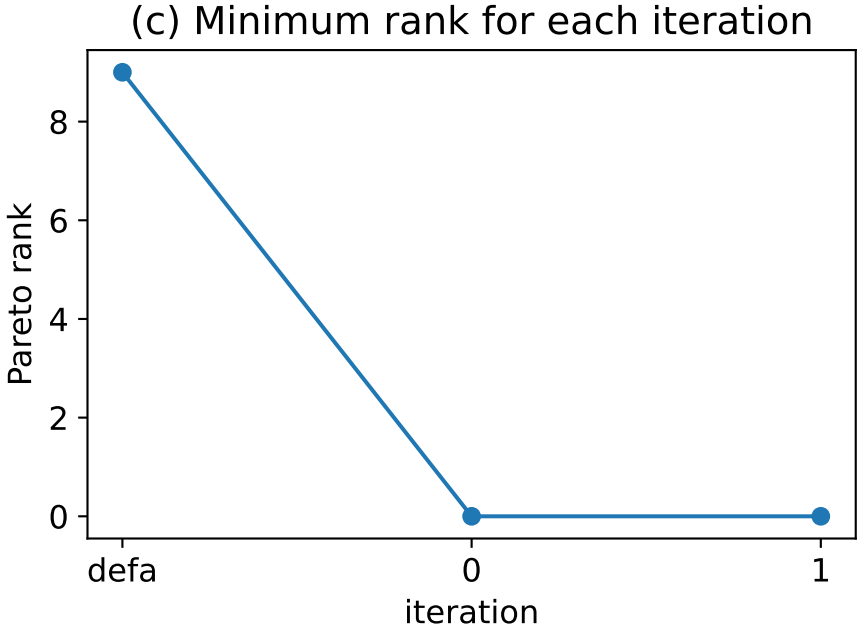


basinid: 312
hru_id: 6188000
lat_cen: 44.90139
lon_cen: -110.10971
AREA: 1730.65 km2
elev_mean: 2544.56 m

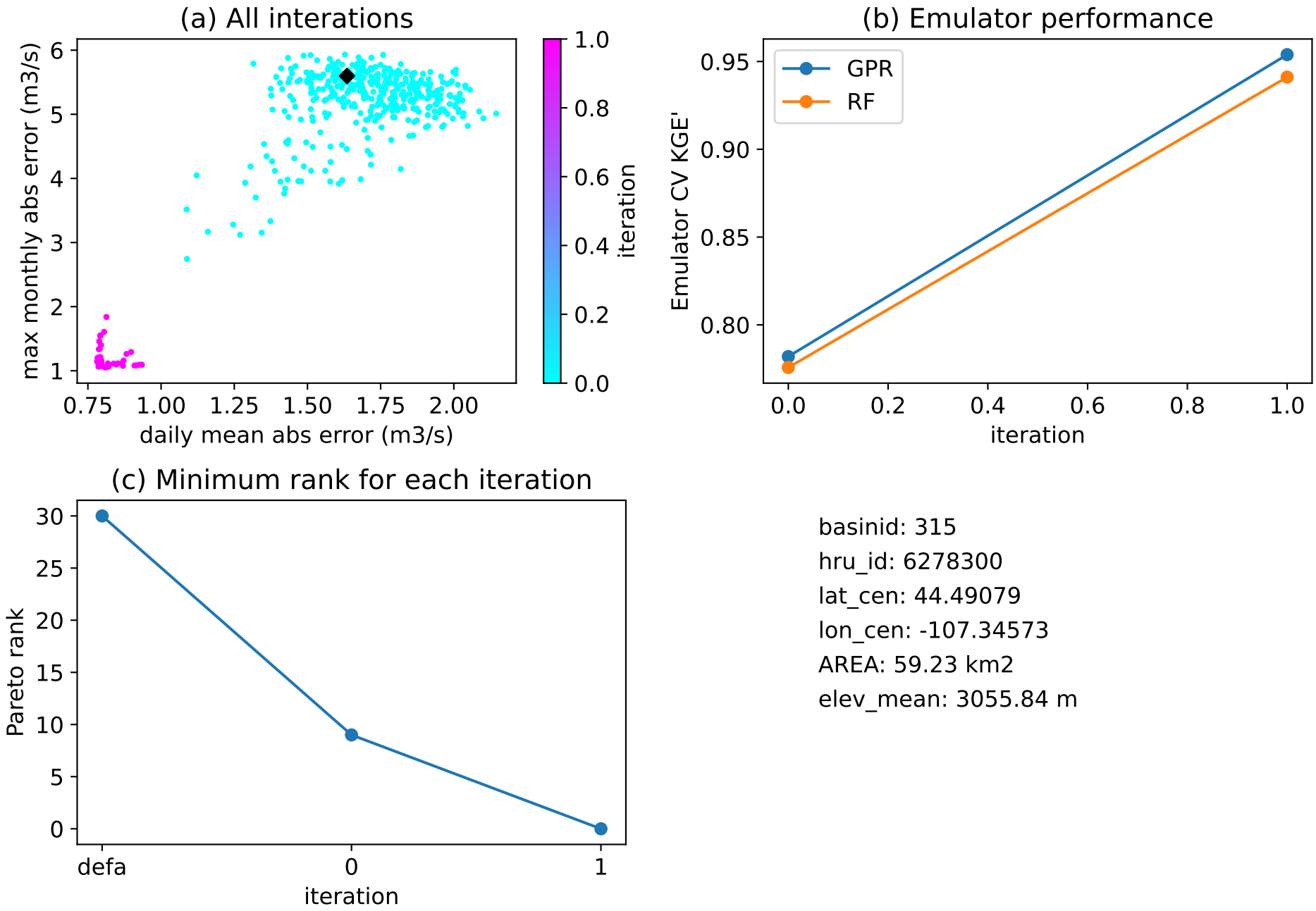

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 313
hru_id: 6221400
lat_cen: 43.27801
lon_cen: -109.57356
AREA: 231.93 km2
elev_mean: 3218.55 m

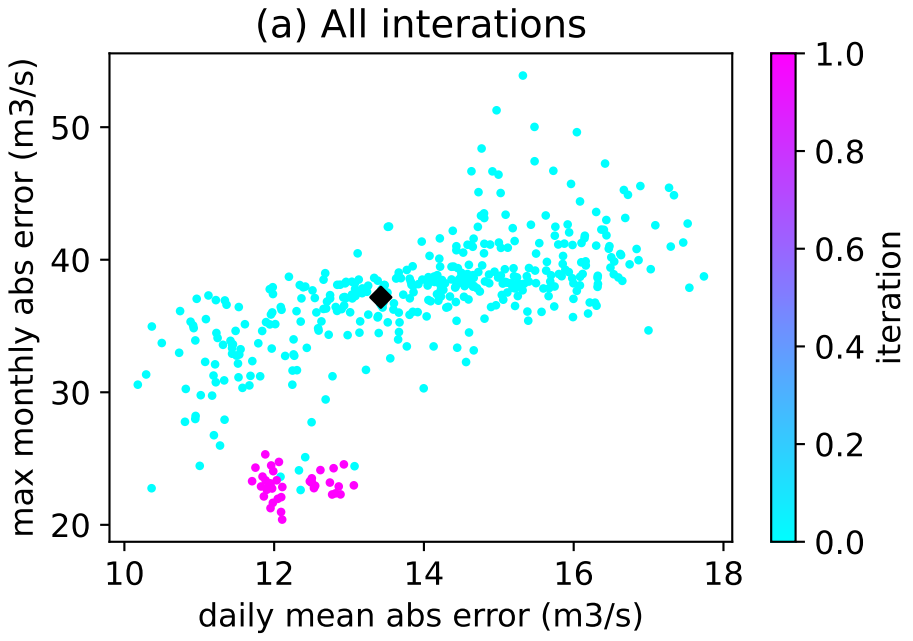


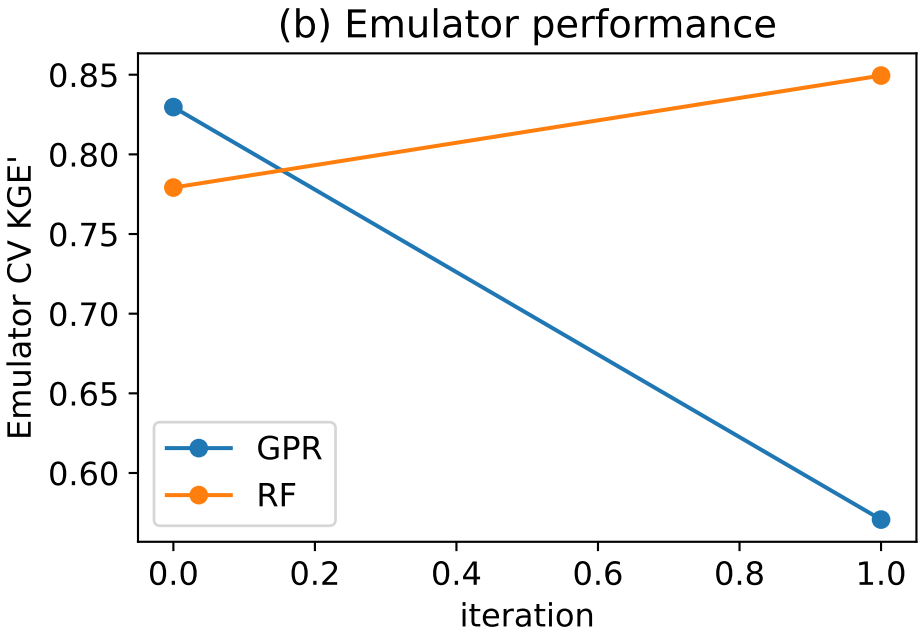


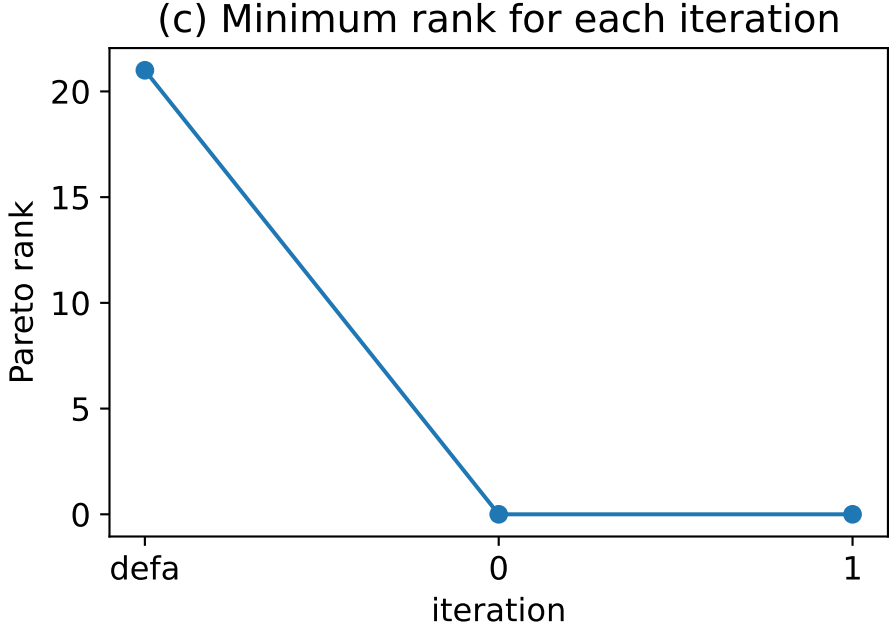


basinid: 314
hru_id: 6224000
lat_cen: 43.08602
lon_cen: -109.42326
AREA: 485.70 km2
elev_mean: 3139.84 m

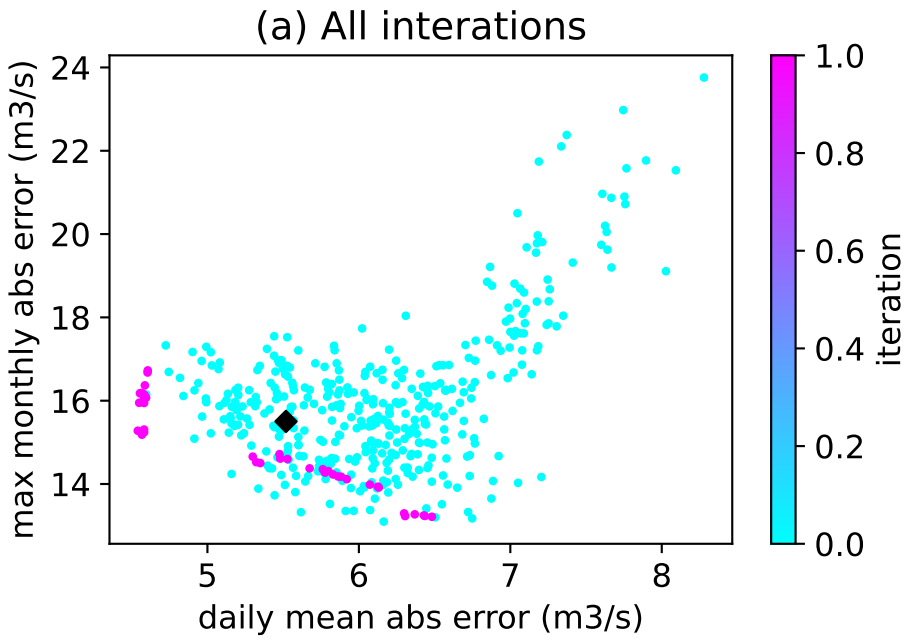

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 315
hru_id: 6278300
lat_cen: 44.49079
lon_cen: -107.34573
AREA: 59.23 km2
elev_mean: 3055.84 m

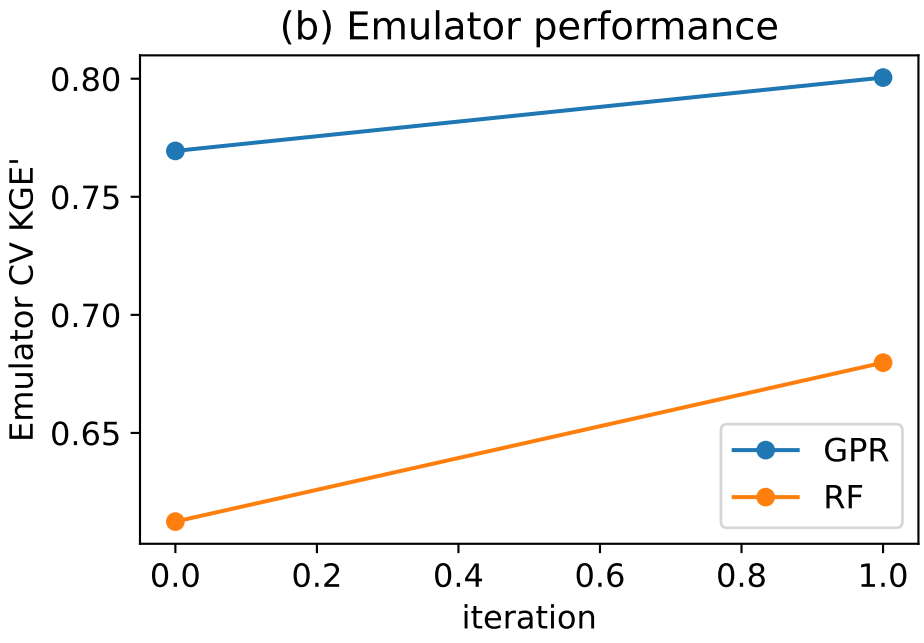


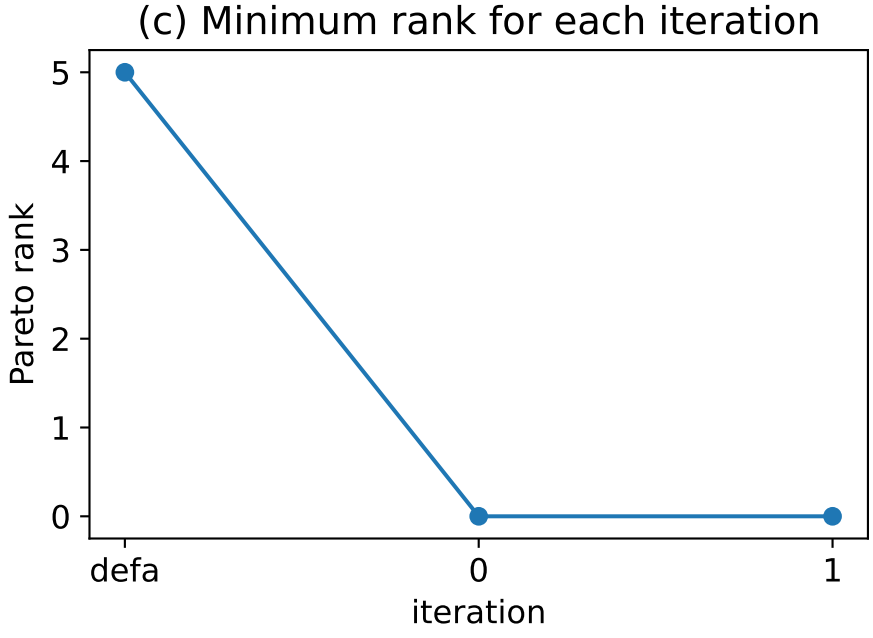




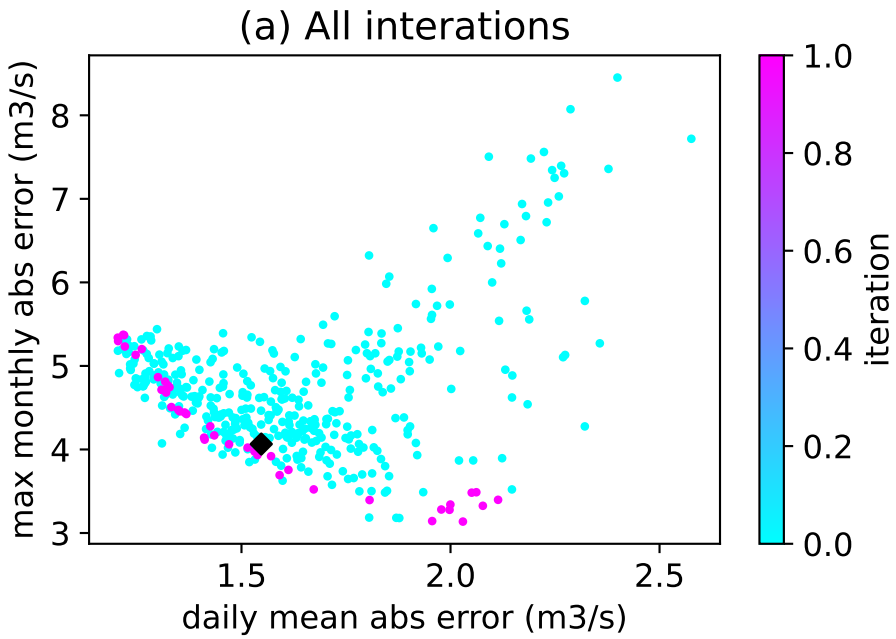
basinid: 316
hru_id: 6280300
lat_cen: 44.02544
lon_cen: -109.66937
AREA: 793.86 km2
elev_mean: 2903.78 m

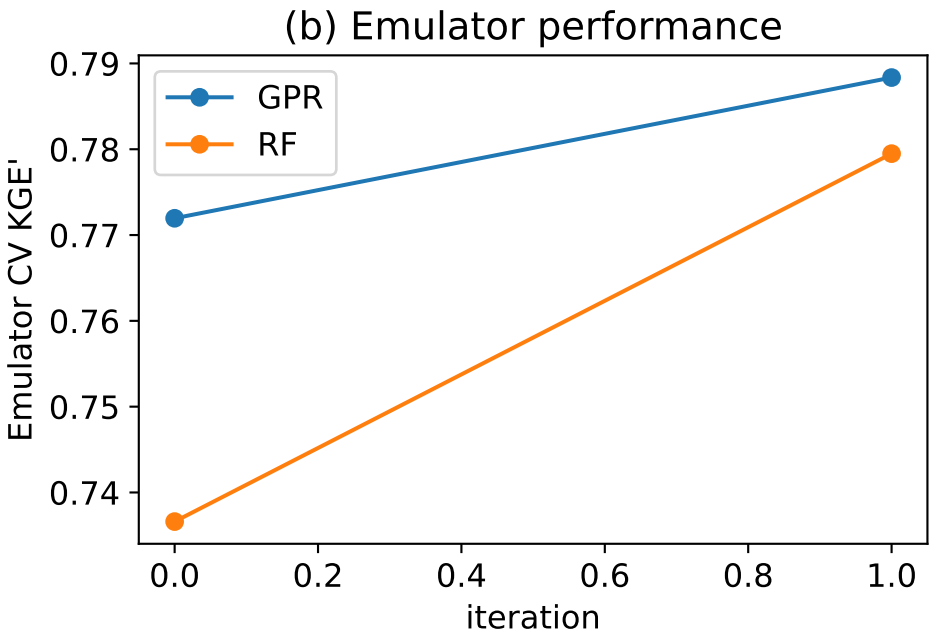


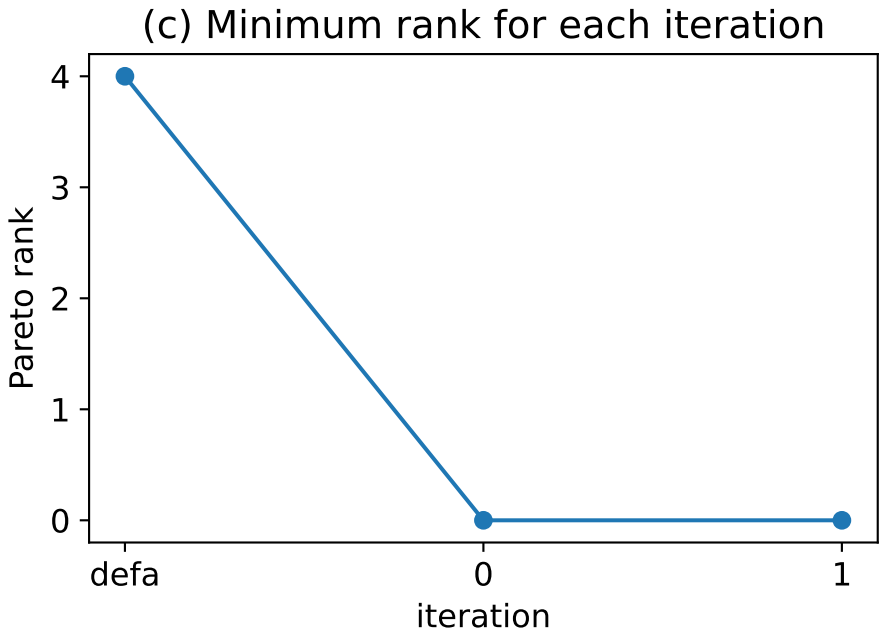




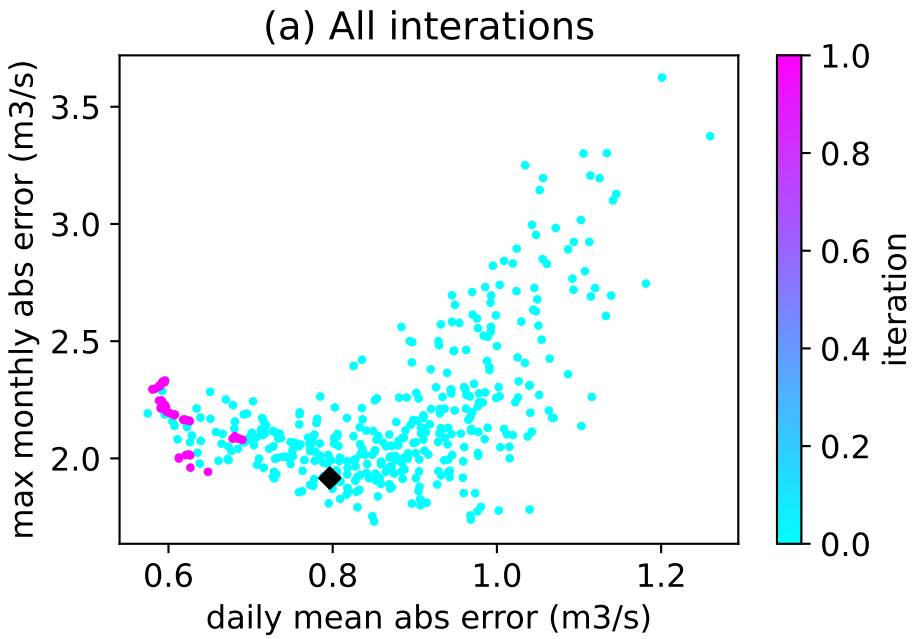
basinid: 317
hru_id: 6289000
lat_cen: 44.88307
lon_cen: -107.70408
AREA: 472.41 km2
elev_mean: 2416.14 m

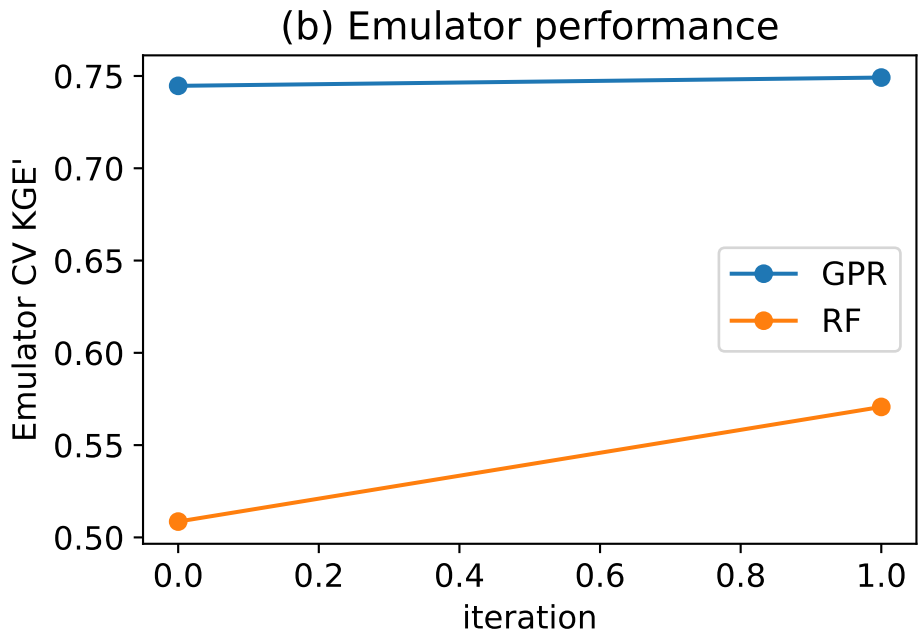


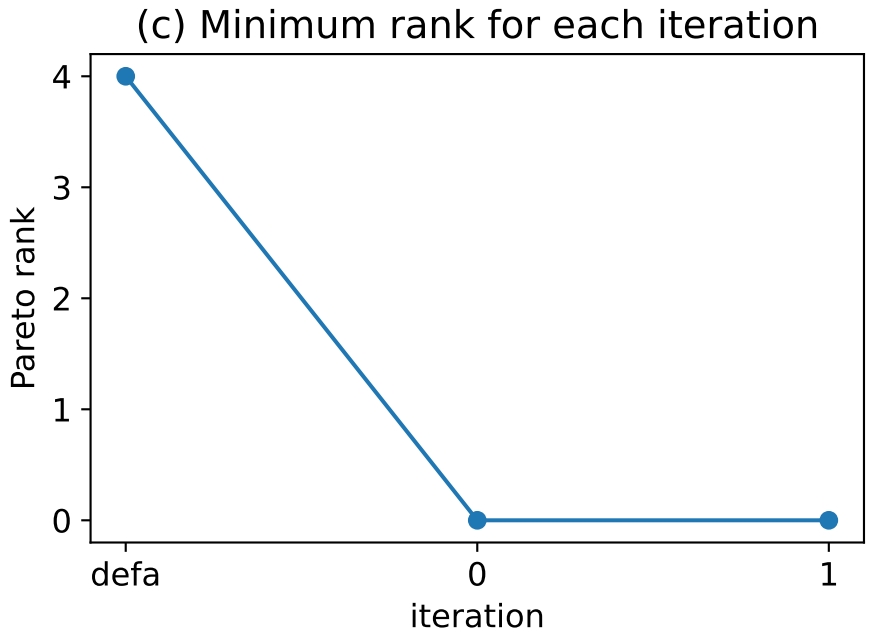




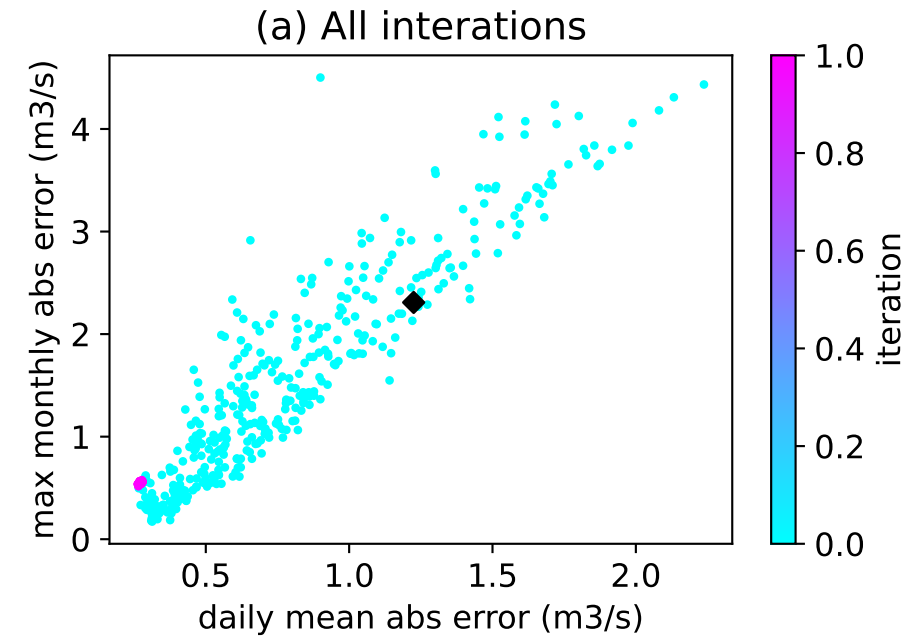
basinid: 318
hru_id: 6291500
lat_cen: 45.03547
lon_cen: -107.7447
AREA: 220.73 km2
elev_mean: 1950.98 m

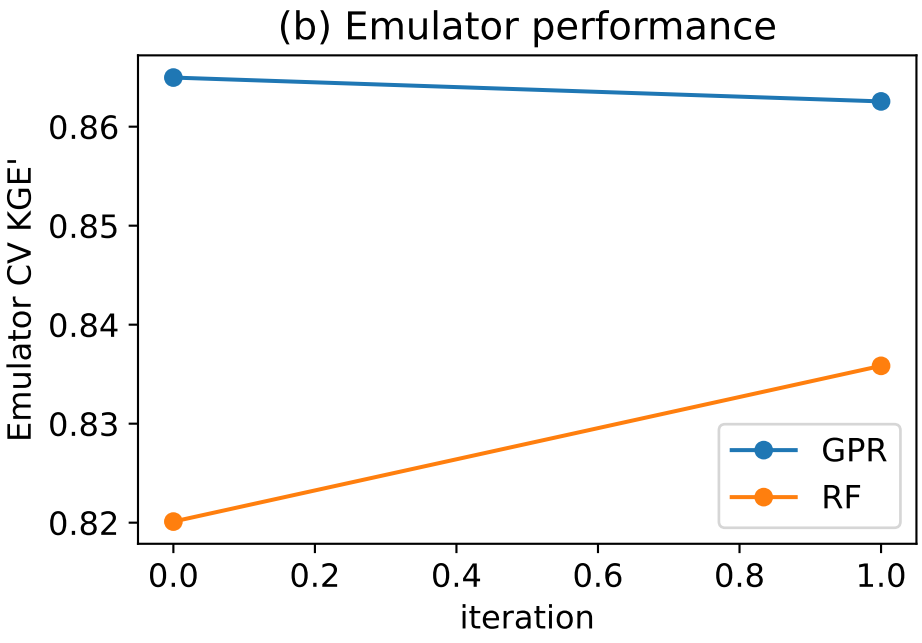


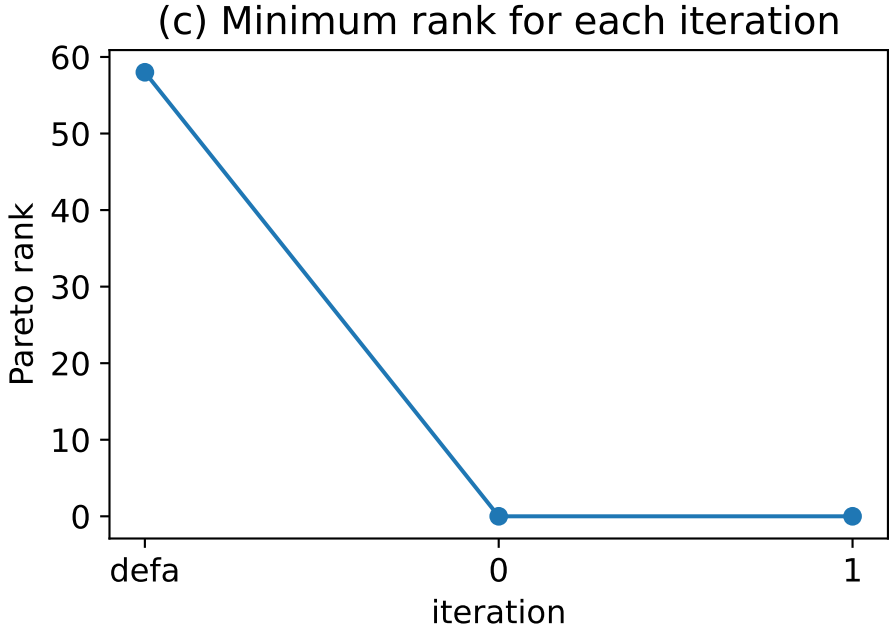




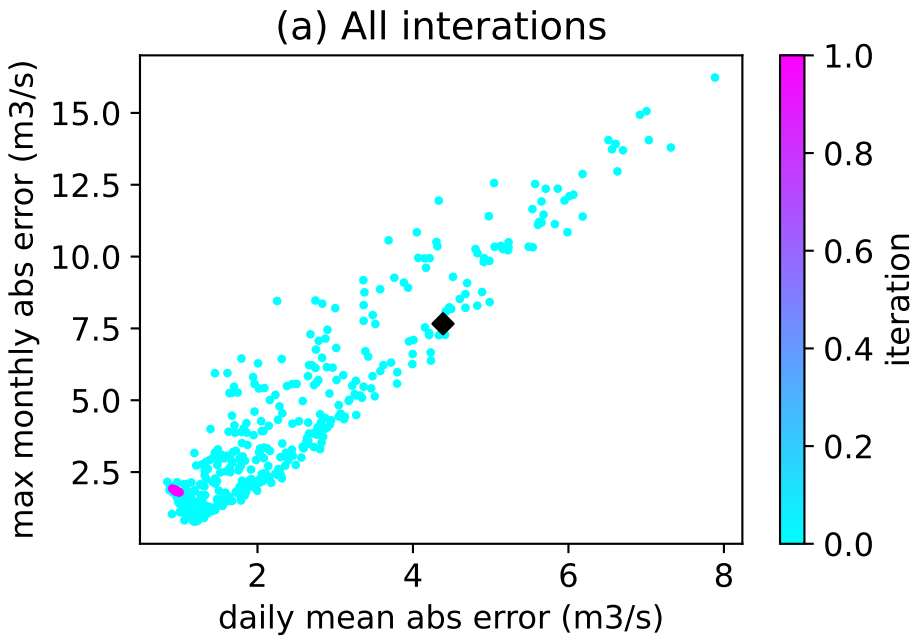
basinid: 319
hru_id: 6311000
lat_cen: 44.09419
lon_cen: -107.08611
AREA: 62.96 km2
elev_mean: 2721.05 m

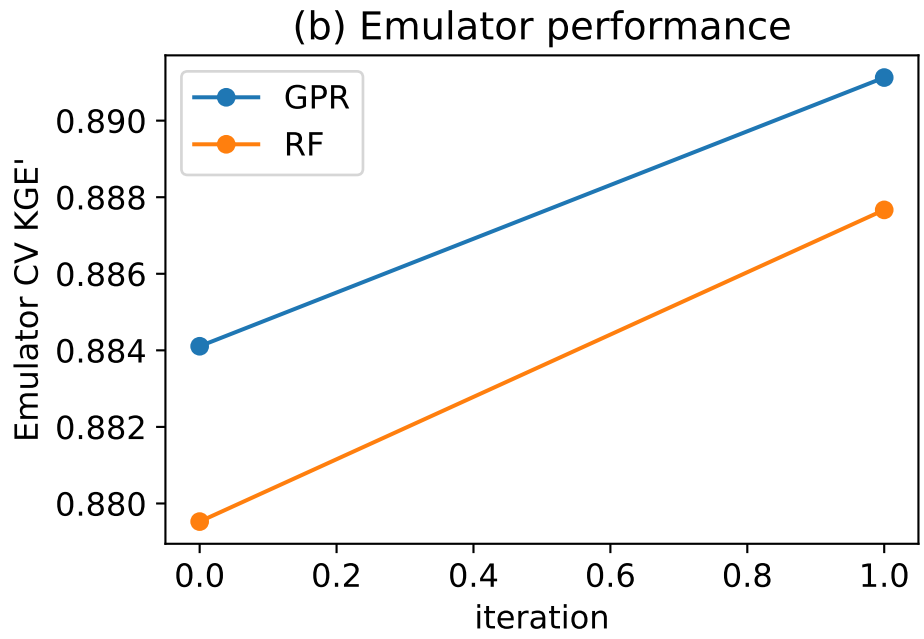


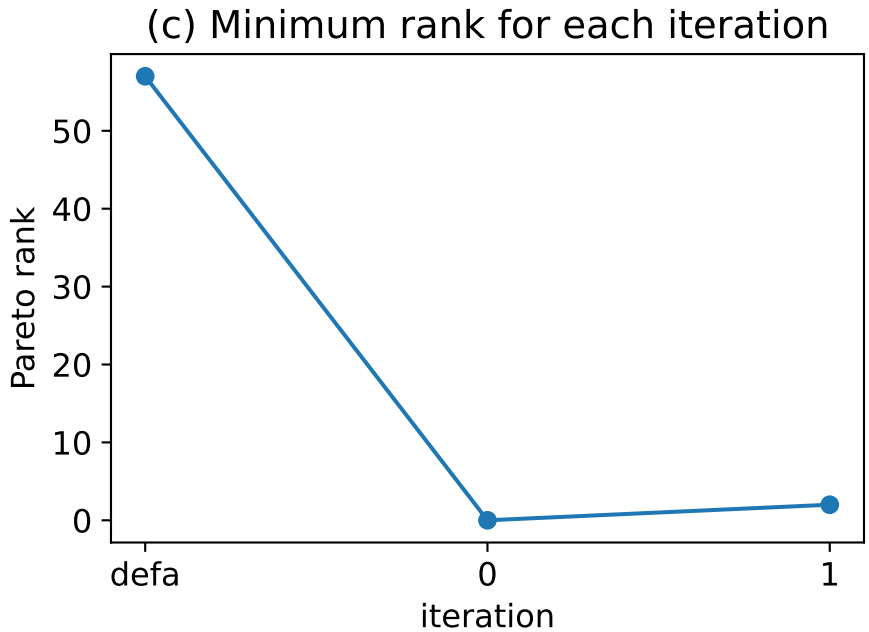




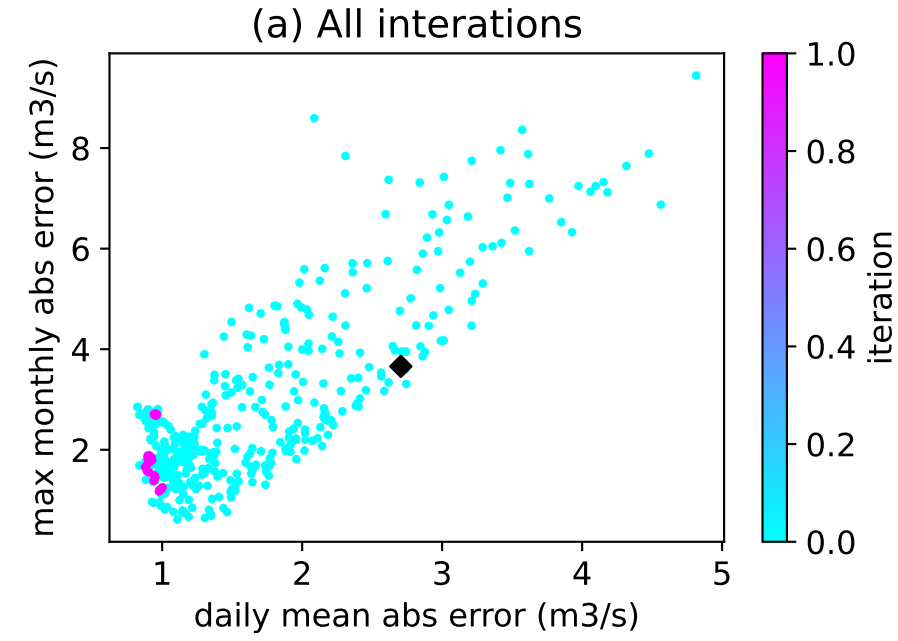
basinid: 320
hru_id: 6332515
lat_cen: 47.74909
lon_cen: -102.83901
AREA: 191.55 km2
elev_mean: 715.06 m

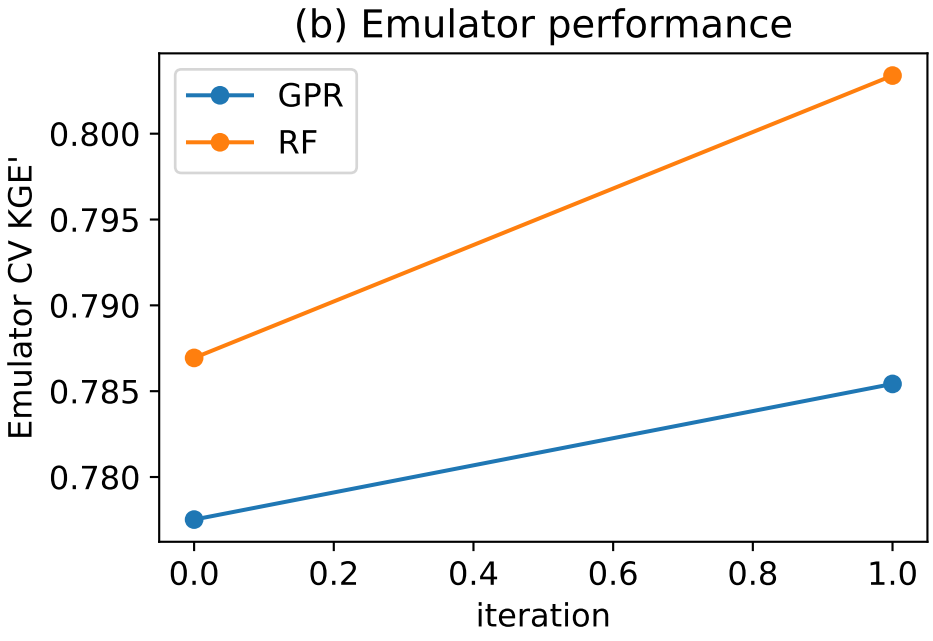


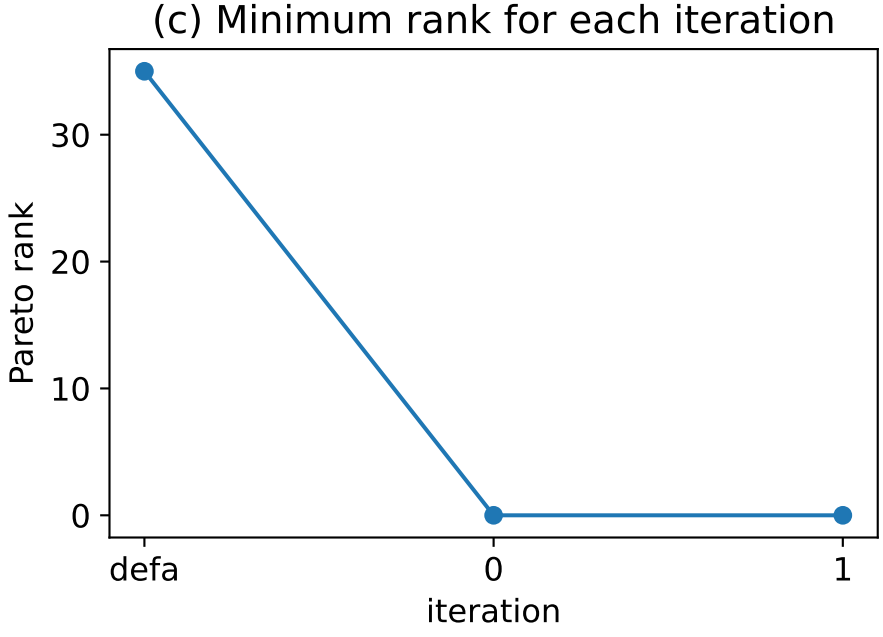




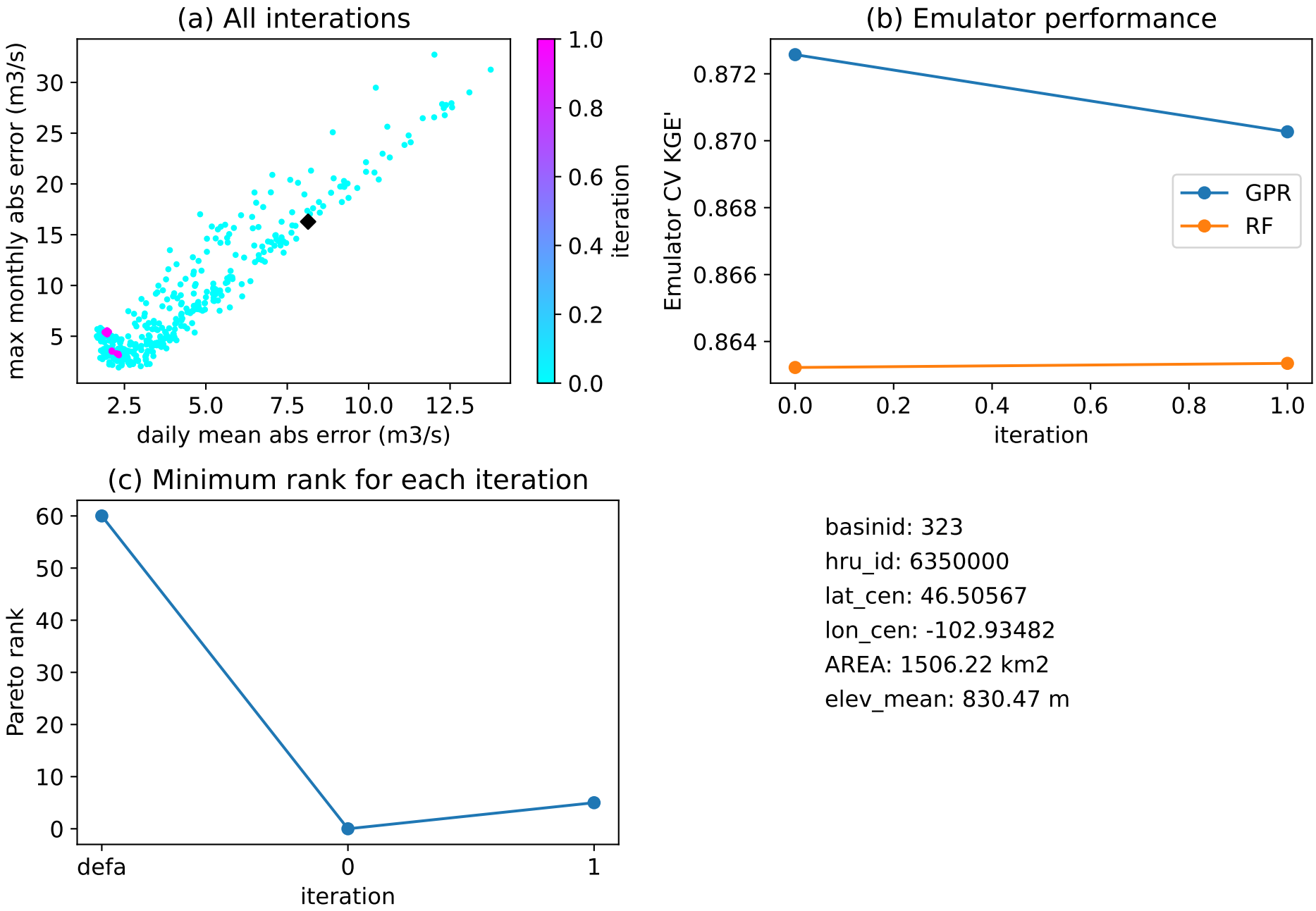
basinid: 321
hru_id: 6339100
lat_cen: 47.27559
lon_cen: -103.00956
AREA: 529.57 km2
elev_mean: 756.76 m

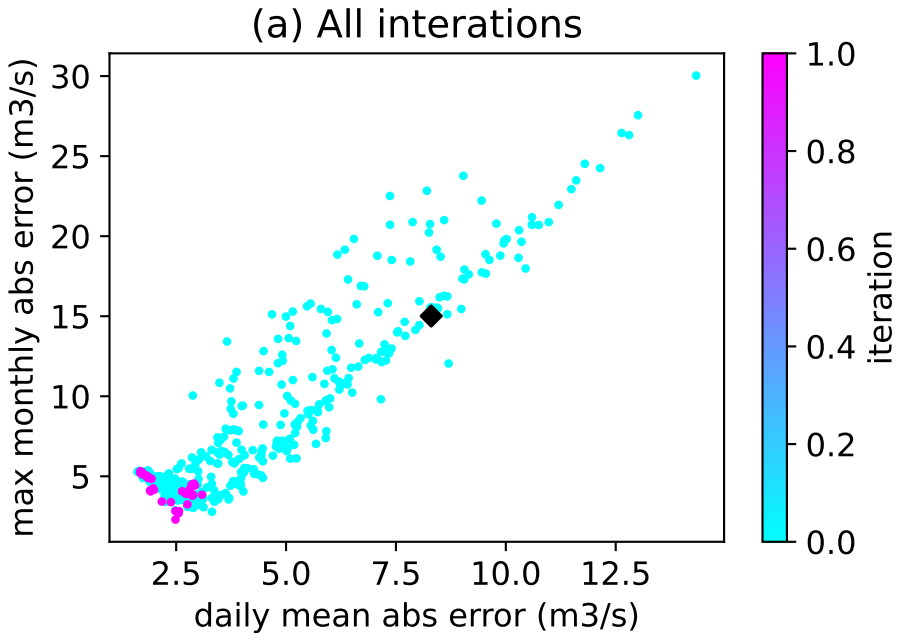


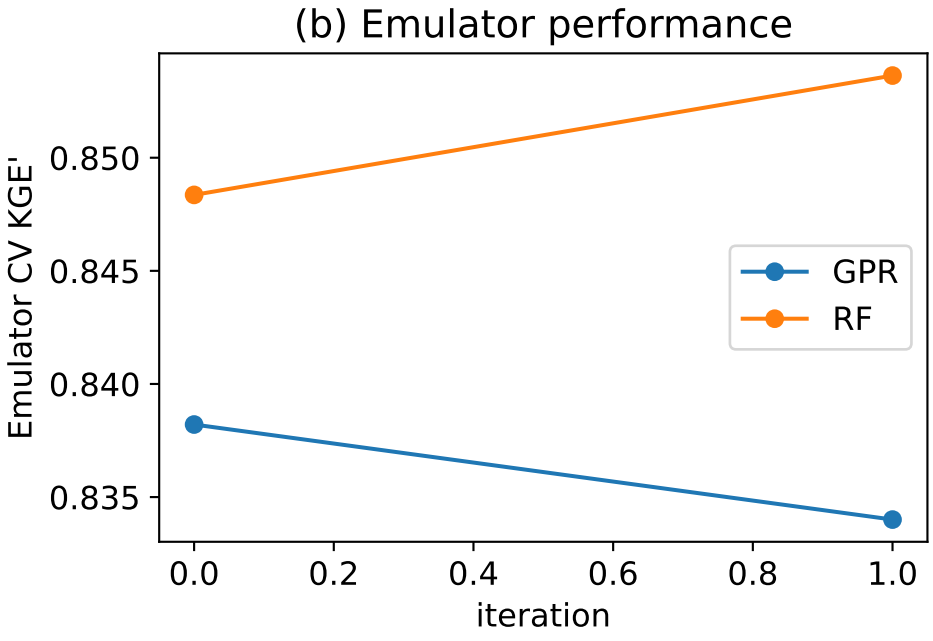


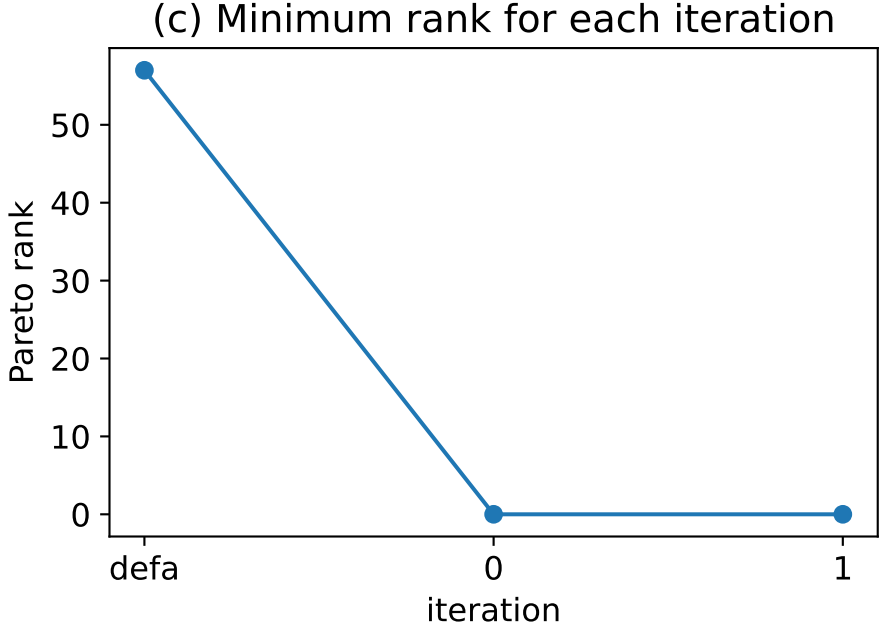


basinid: 322
hru_id: 6344600
lat_cen: 47.08057
lon_cen: -103.18072
AREA: 408.92 km2
elev_mean: 820.11 m

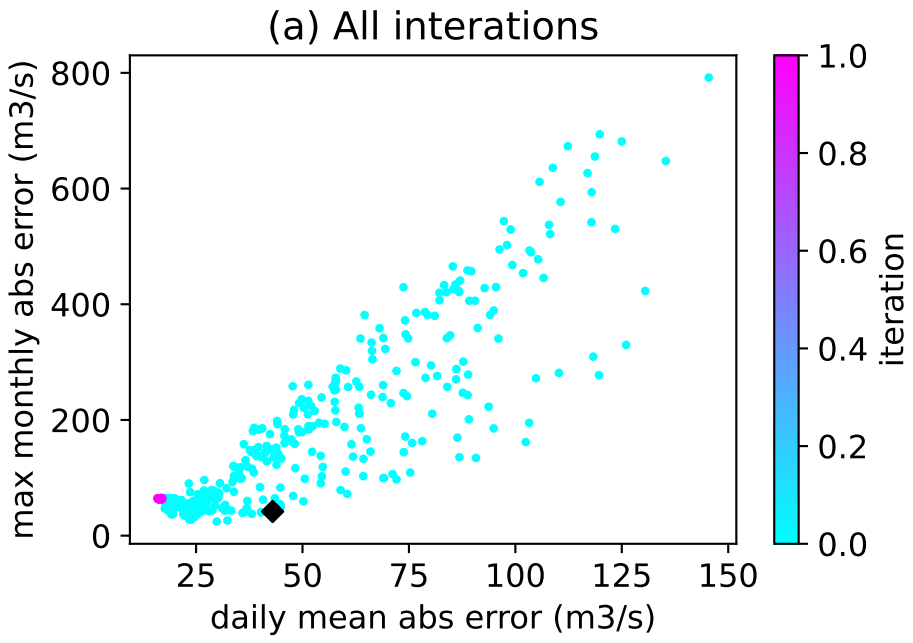

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 323
hru_id: 6350000
lat_cen: 46.50567
lon_cen: -102.93482
AREA: 1506.22 km2
elev_mean: 830.47 m

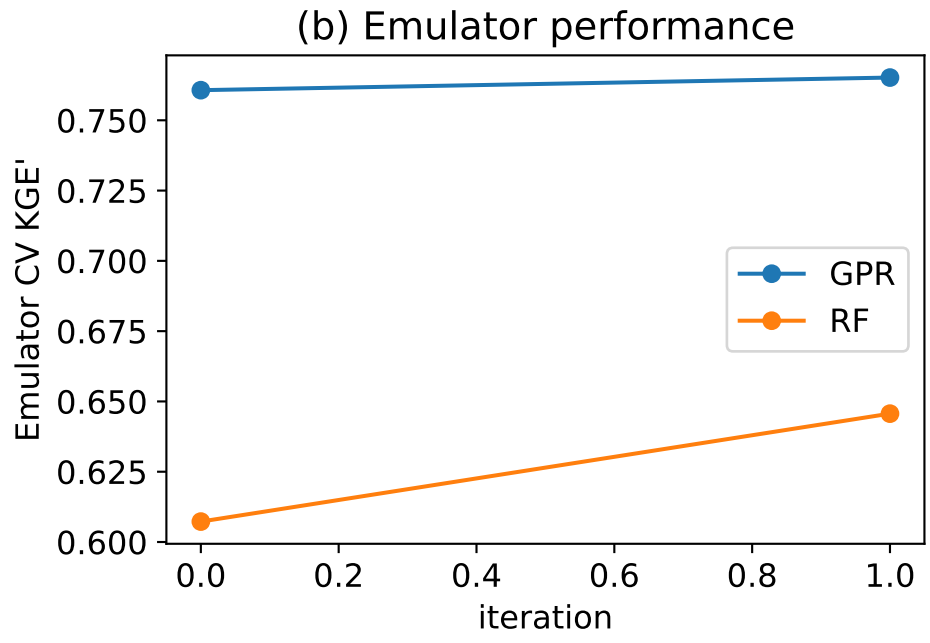


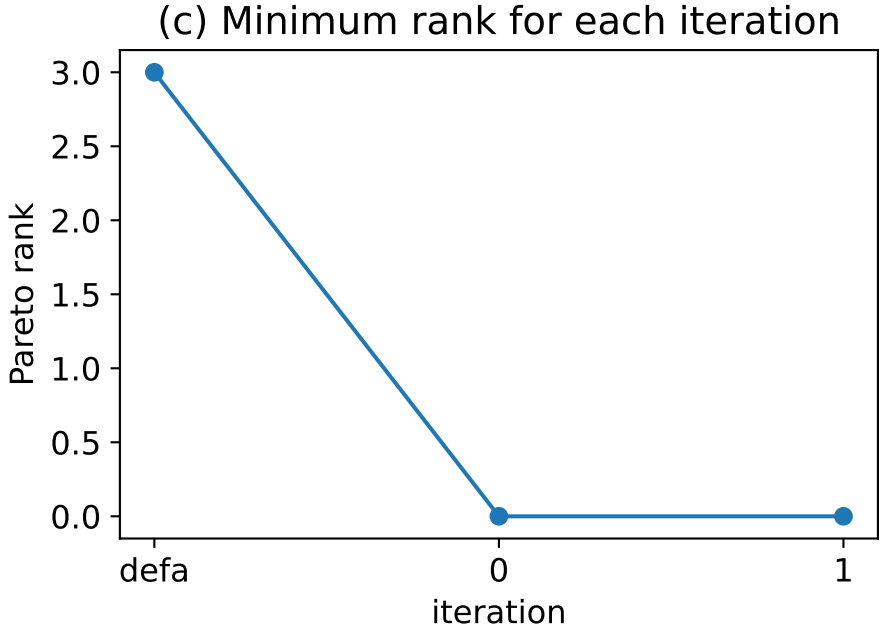




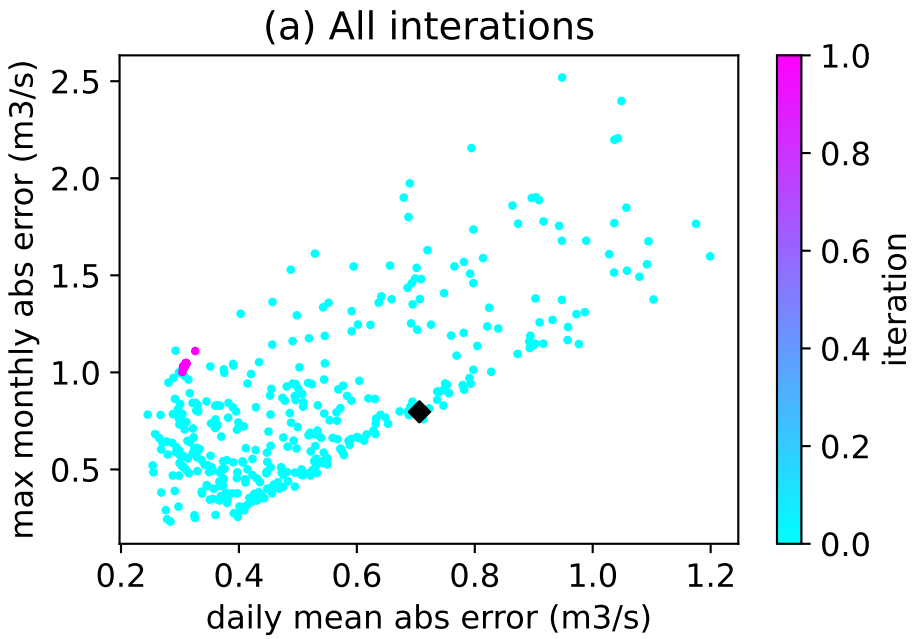
basinid: 324
hru_id: 6352000
lat_cen: 46.28588
lon_cen: -102.95035
AREA: 1443.16 km2
elev_mean: 855.58 m

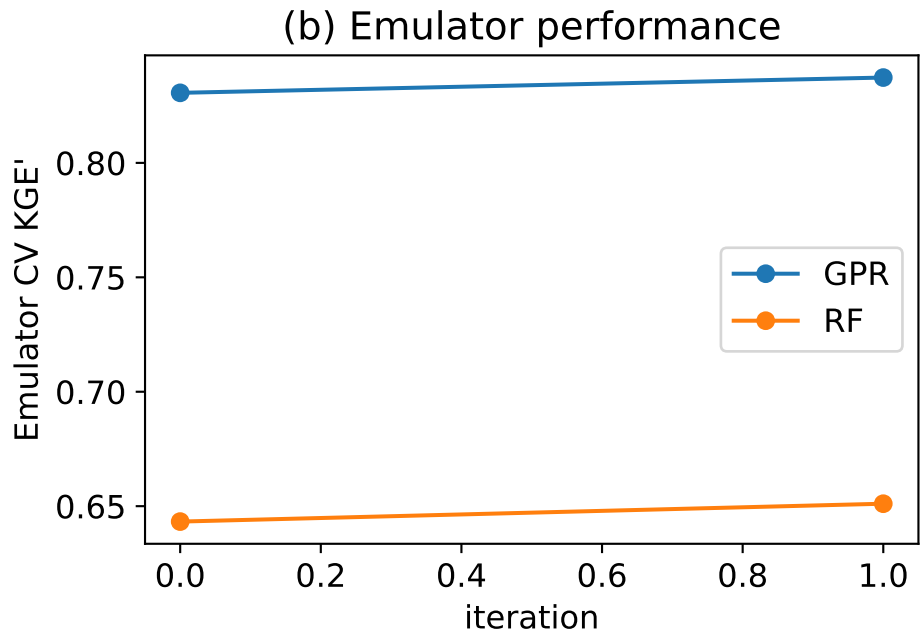


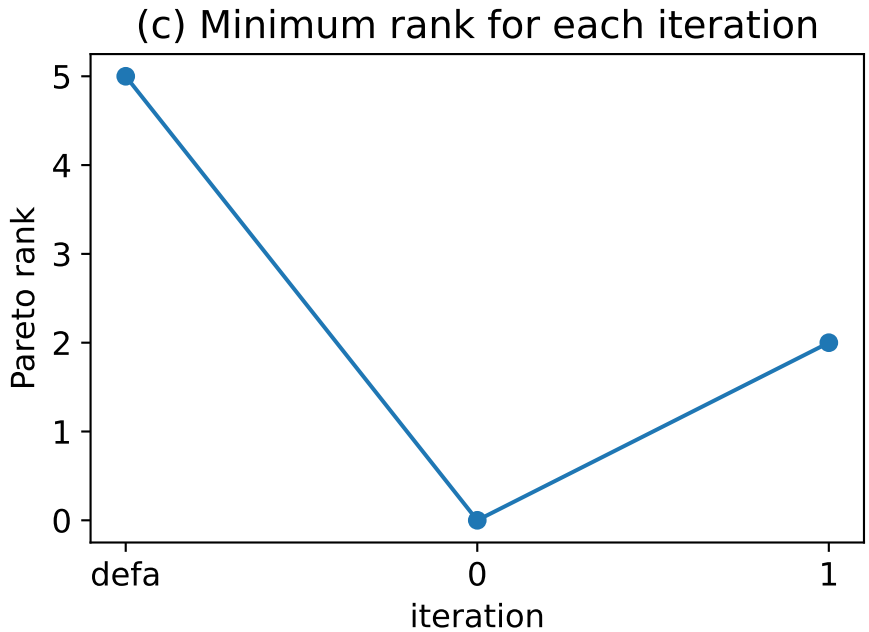




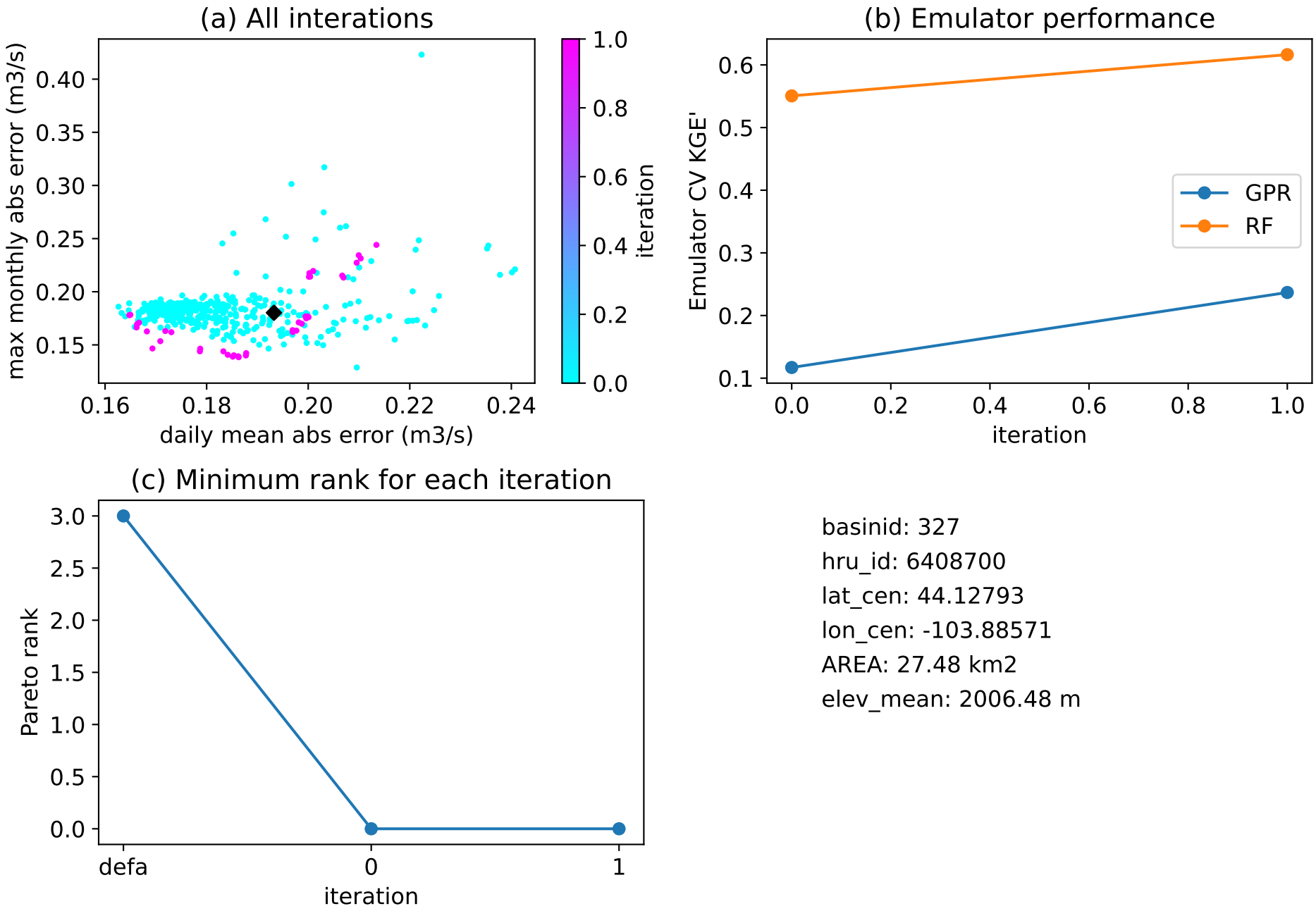
basinid: 325
hru_id: 6360500
lat_cen: 45.23328
lon_cen: -102.38514
AREA: 12601.70 km2
elev_mean: 803.04 m

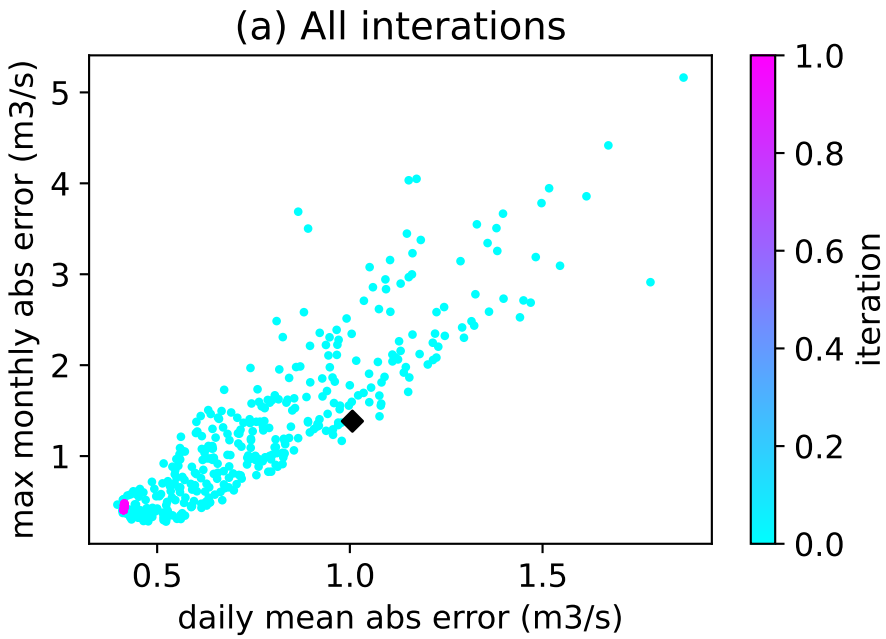


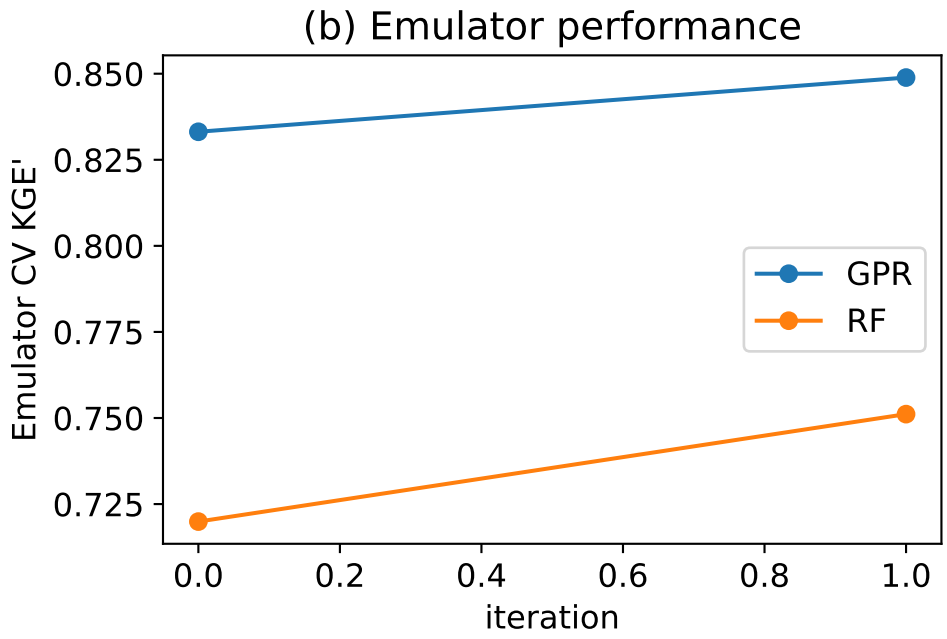


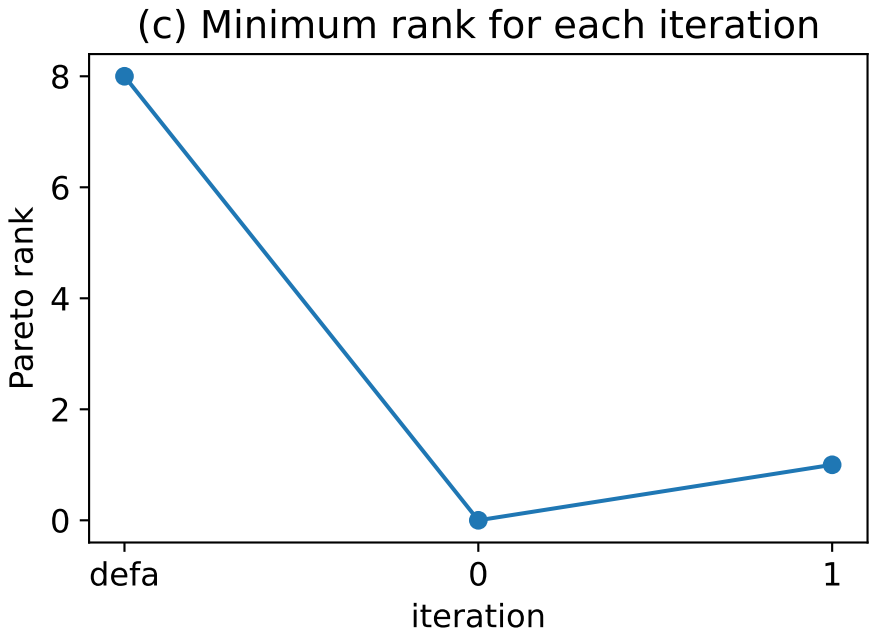


basinid: 326
hru_id: 6404000
lat_cen: 43.8806
lon_cen: -103.44596
AREA: 151.88 km2
elev_mean: 1533.56 m

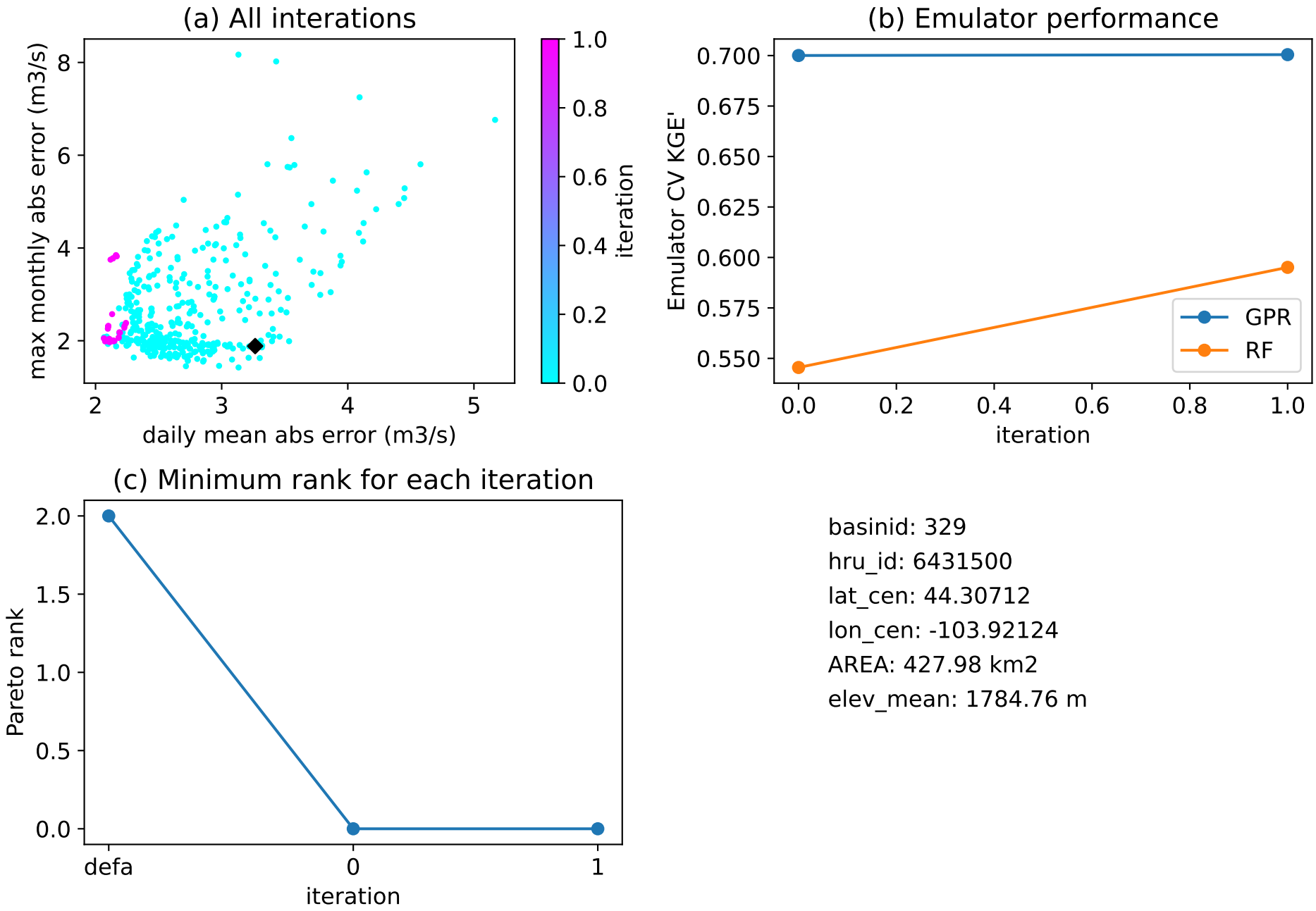

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 327
hru_id: 6408700
lat_cen: 44.12793
lon_cen: -103.88571
AREA: 27.48 km2
elev_mean: 2006.48 m

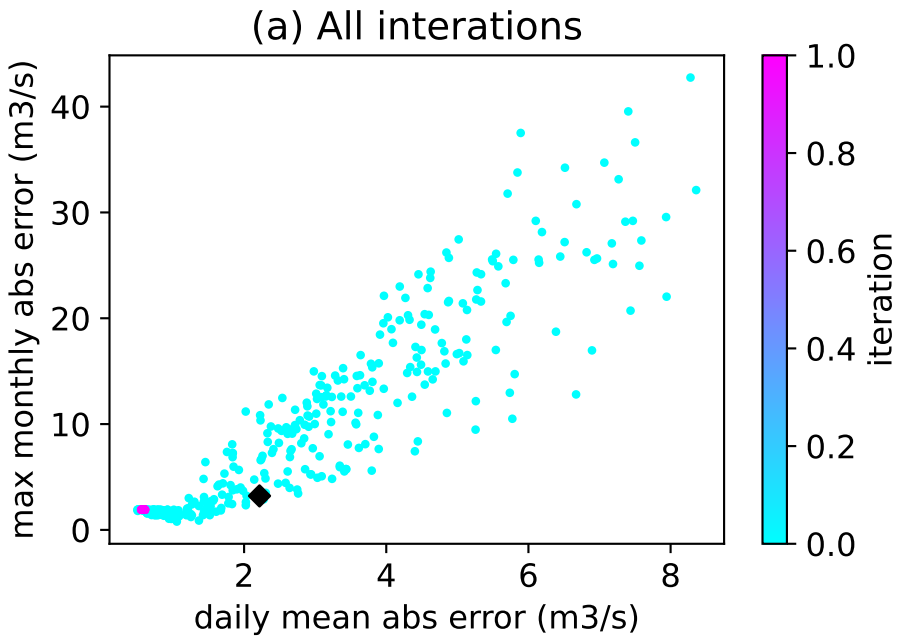


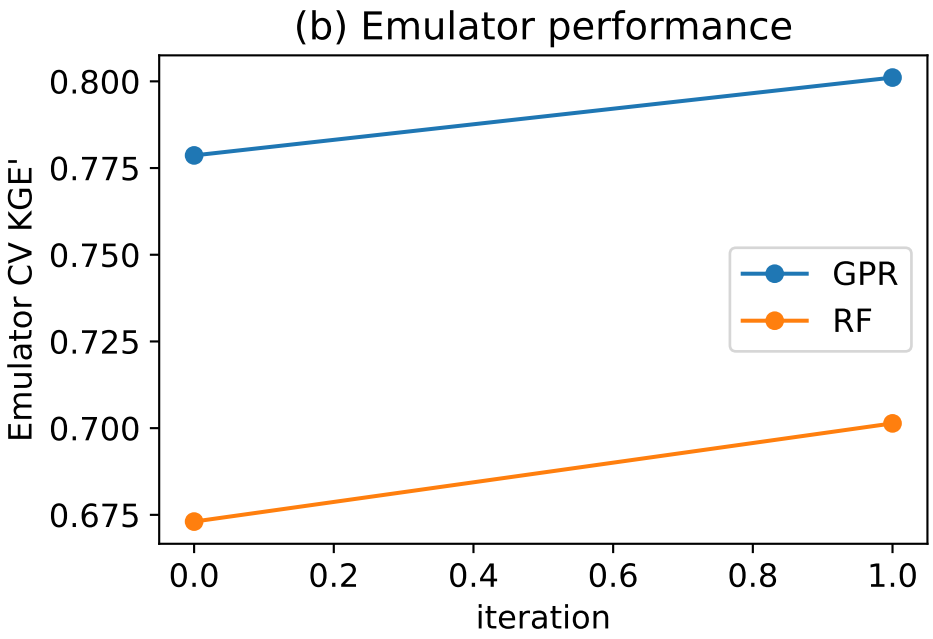


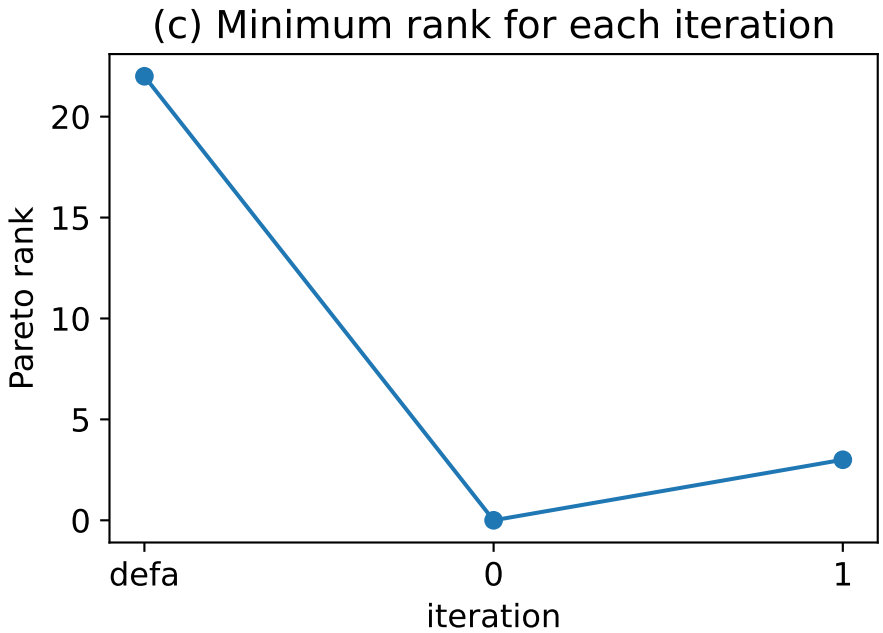


basinid: 328
hru_id: 6409000
lat_cen: 44.0179
lon_cen: -103.8816
AREA: 209.41 km2
elev_mean: 2022.69 m

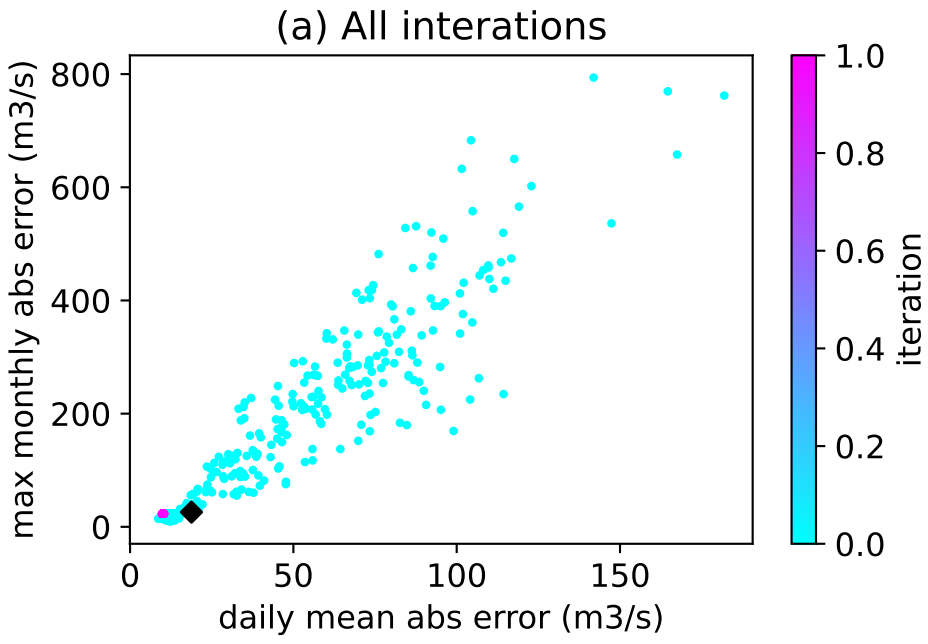

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 329
hru_id: 6431500
lat_cen: 44.30712
lon_cen: -103.92124
AREA: 427.98 km2
elev_mean: 1784.76 m

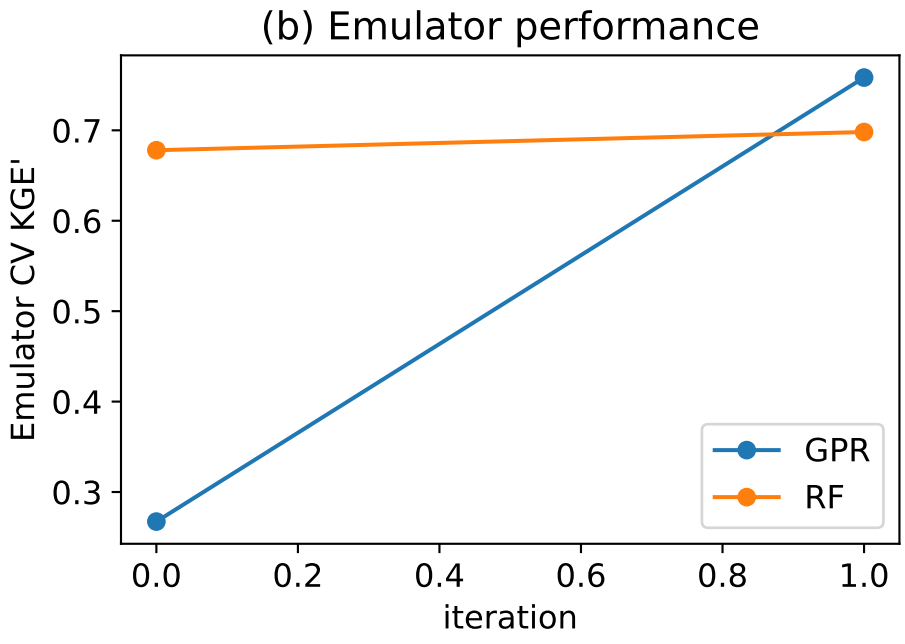


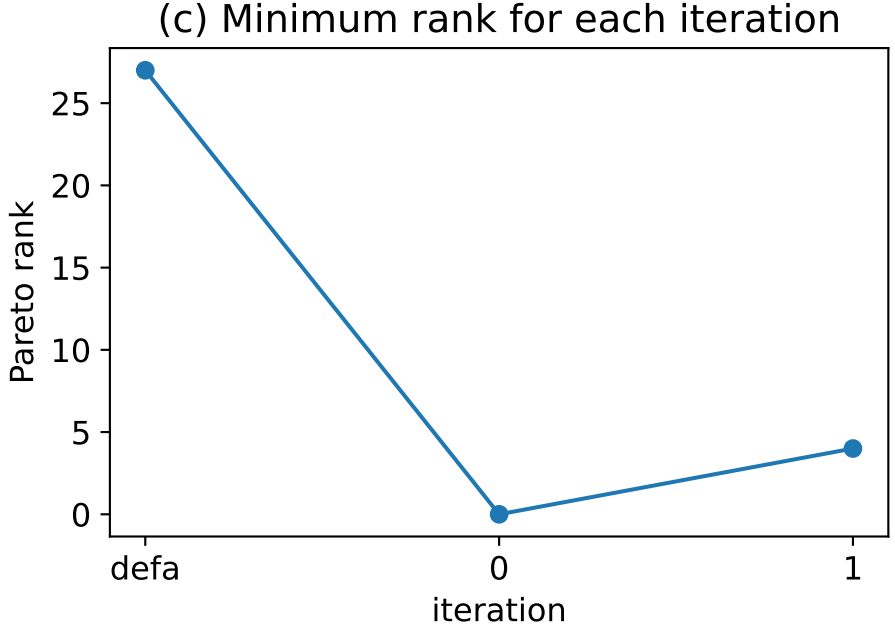




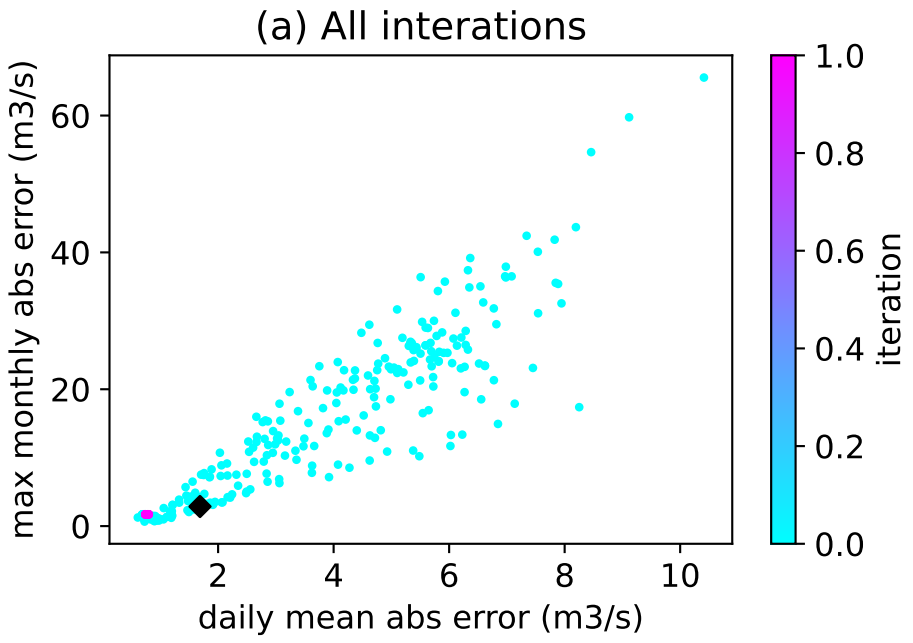
basinid: 330
hru_id: 6440200
lat_cen: 43.86969
lon_cen: -101.9572
AREA: 654.71 km2
elev_mean: 786.26 m

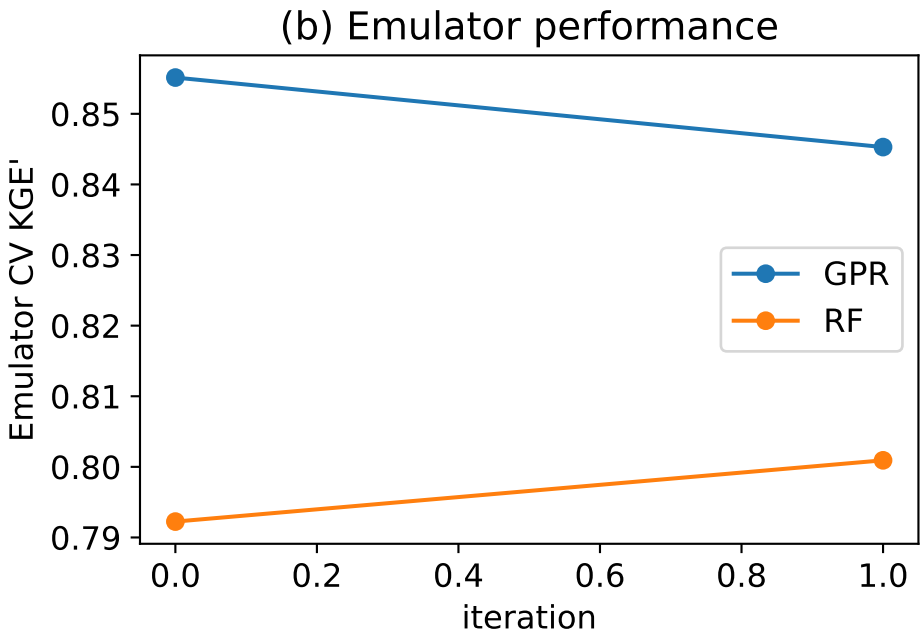


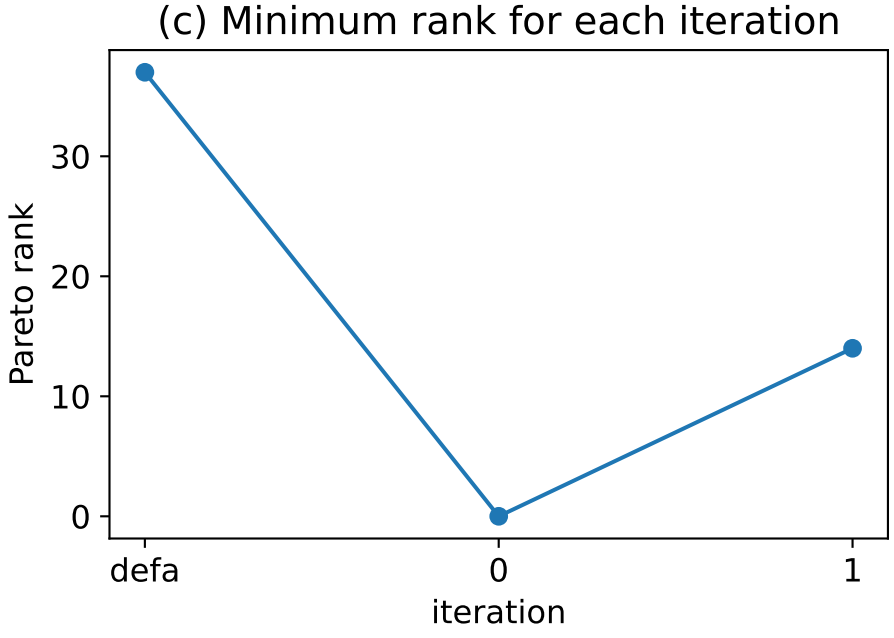




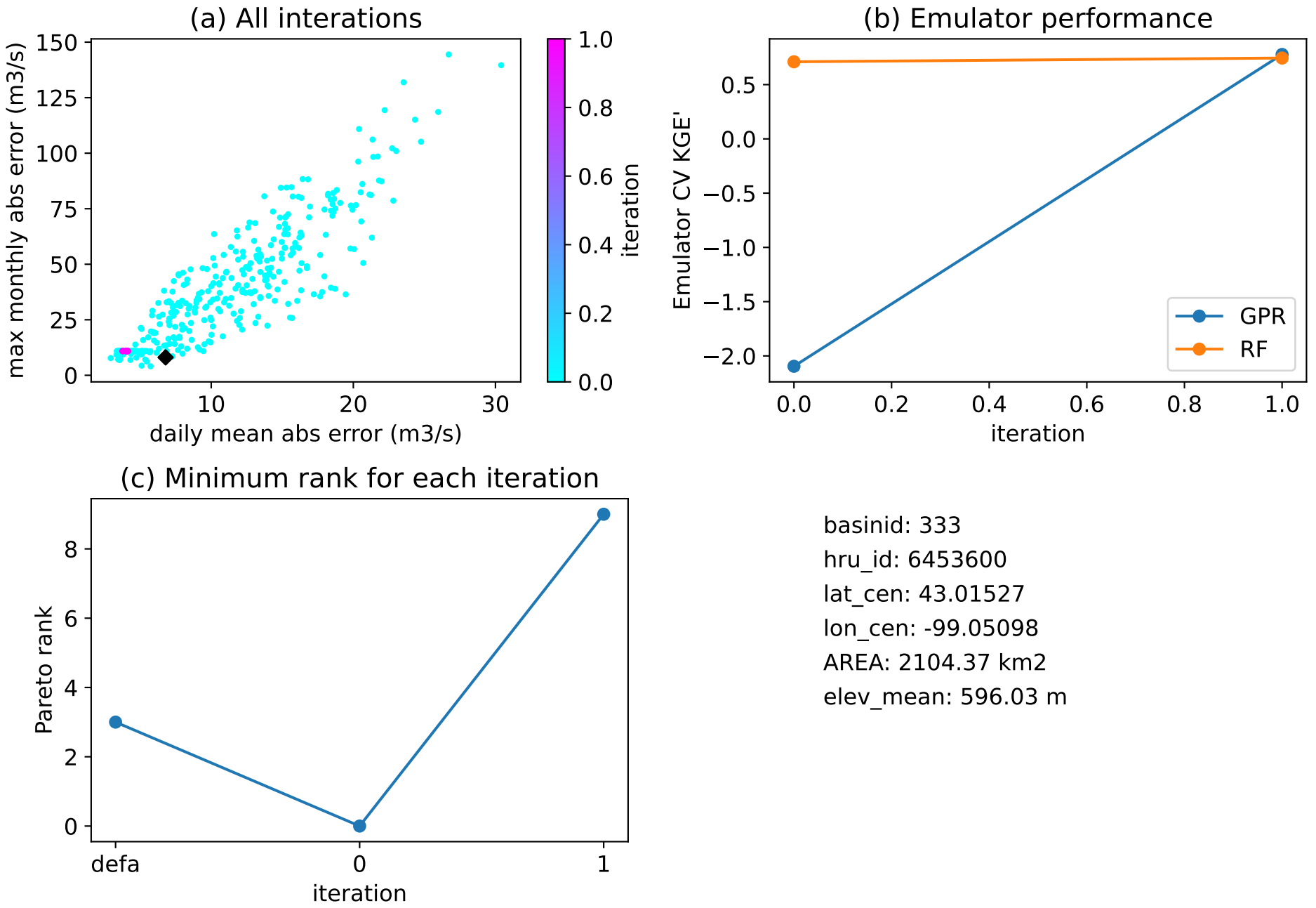
basinid: 331
hru_id: 6447000
lat_cen: 43.2028
lon_cen: -102.56251
AREA: 12869.70 km2
elev_mean: 992.79 m

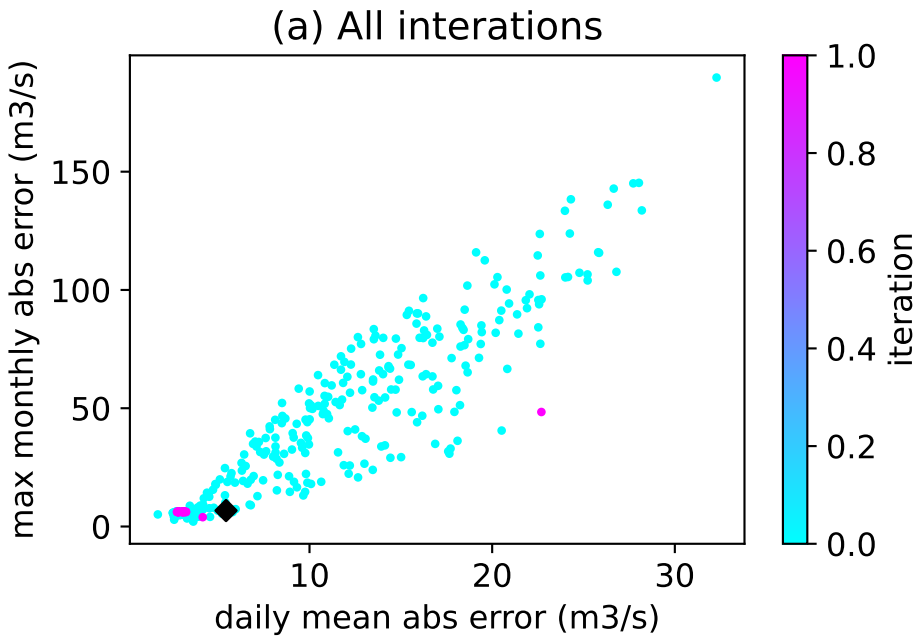


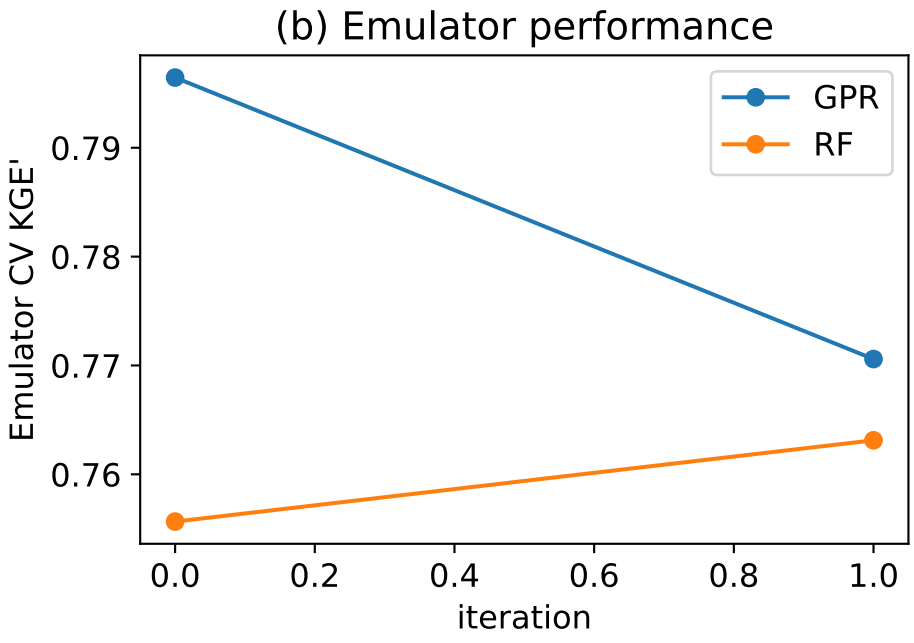


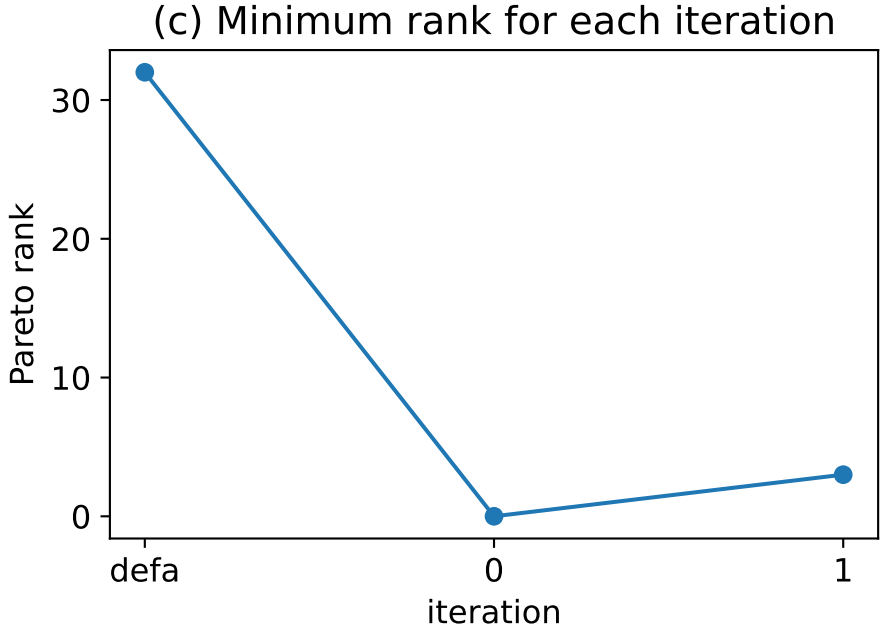


basinid: 332
hru_id: 6447500
lat_cen: 43.11077
lon_cen: -101.97741
AREA: 793.17 km2
elev_mean: 1035.48 m

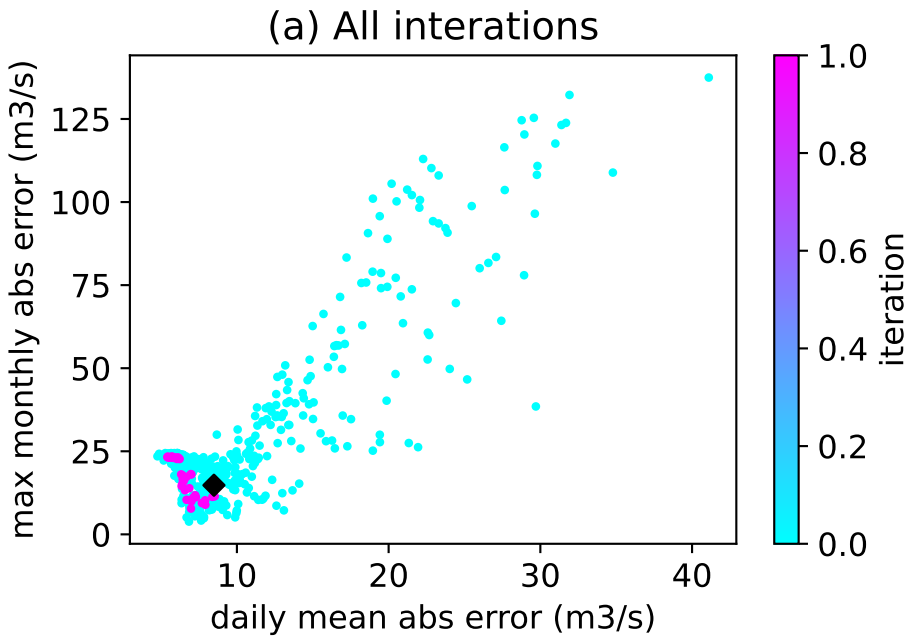

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 333
hru_id: 6453600
lat_cen: 43.01527
lon_cen: -99.05098
AREA: 2104.37 km2
elev_mean: 596.03 m

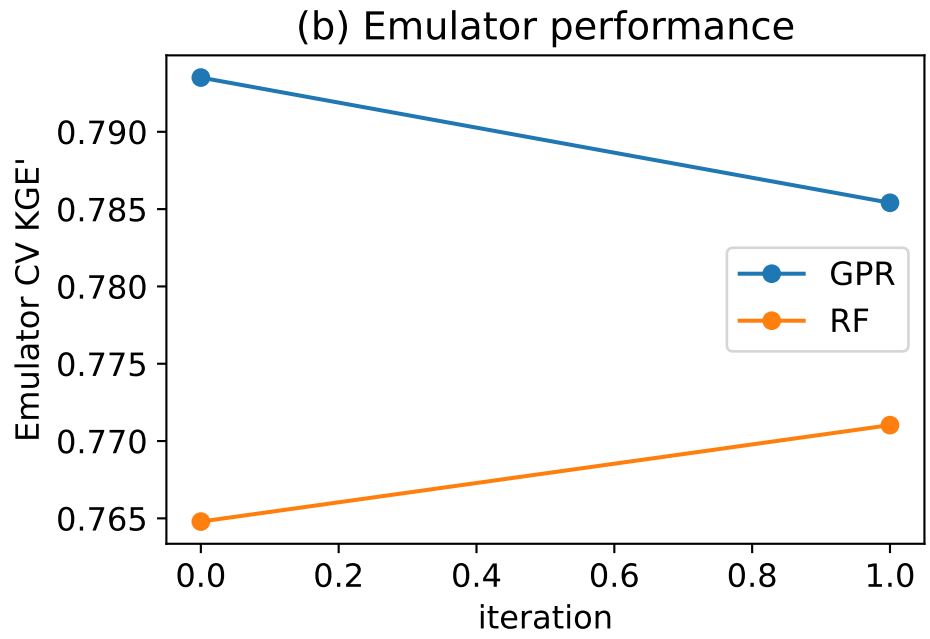


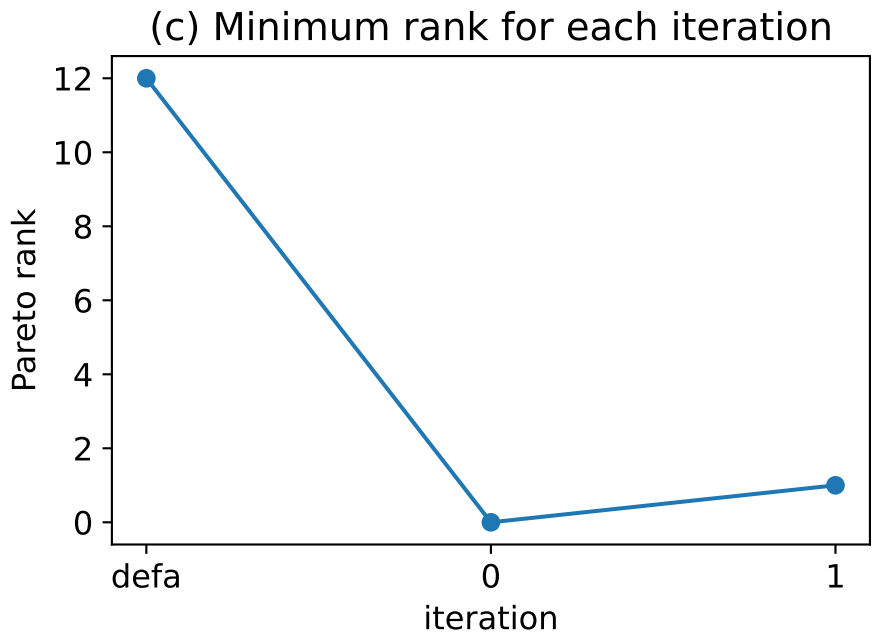




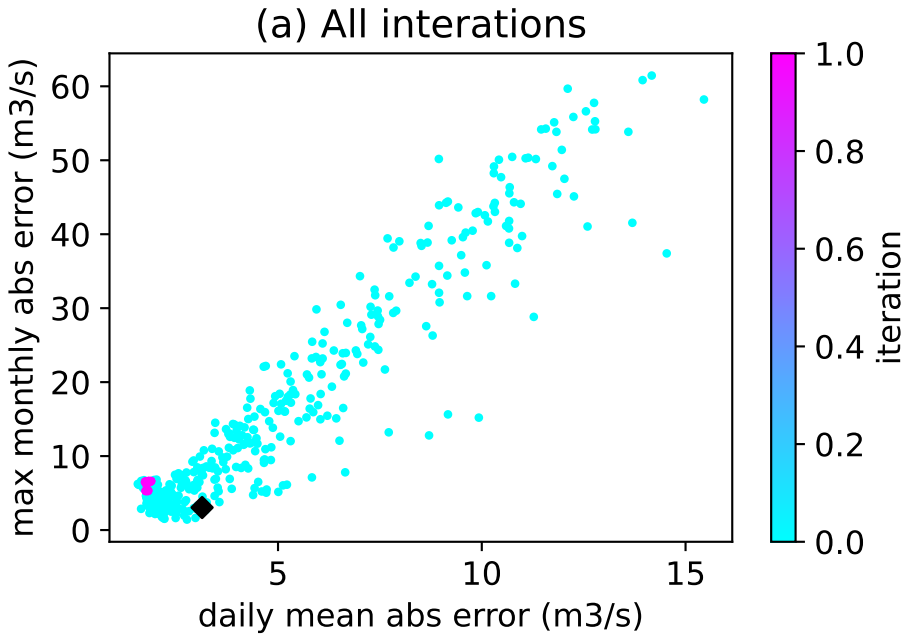
basinid: 334
hru_id: 6464500
lat_cen: 43.11313
lon_cen: -100.25694
AREA: 2924.73 km2
elev_mean: 764.73 m

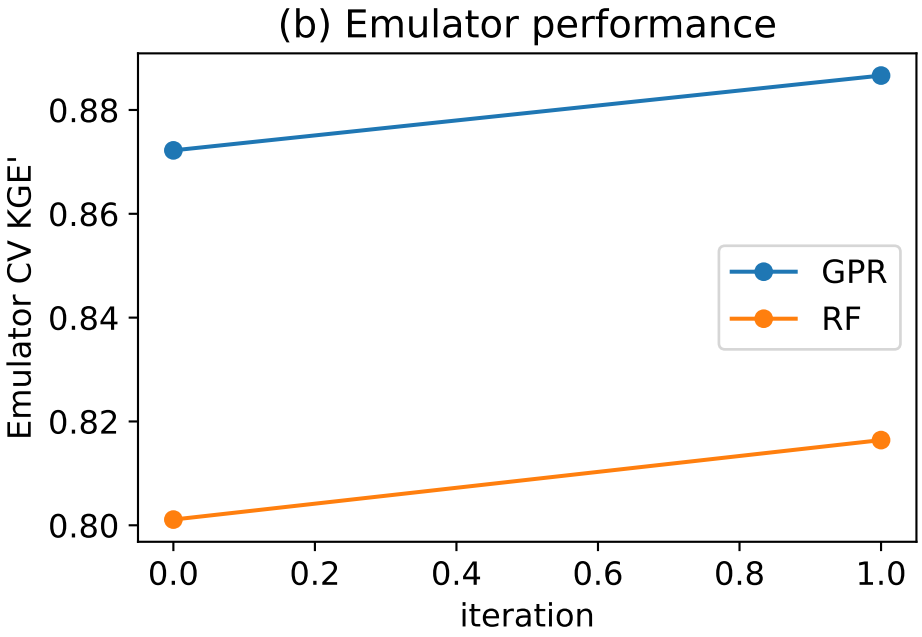


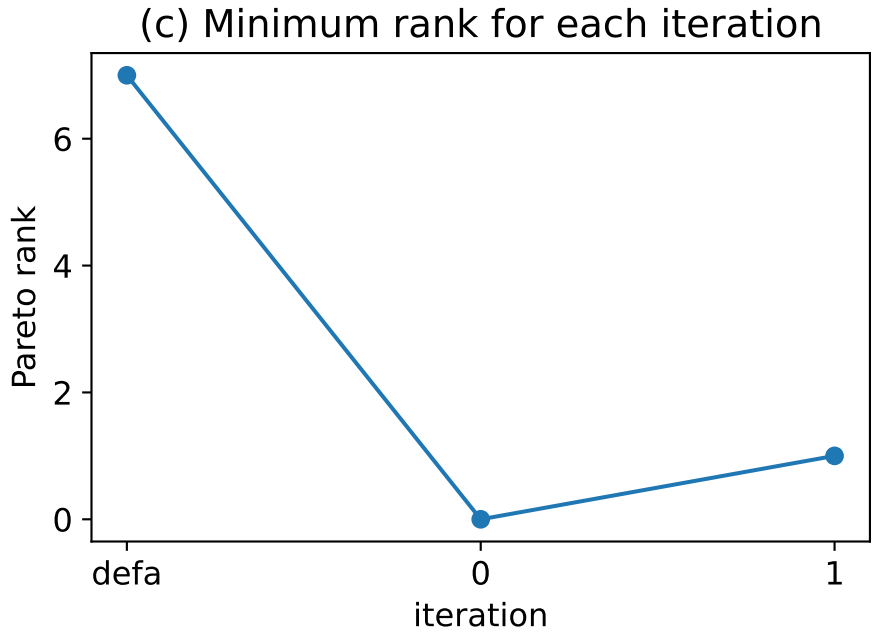




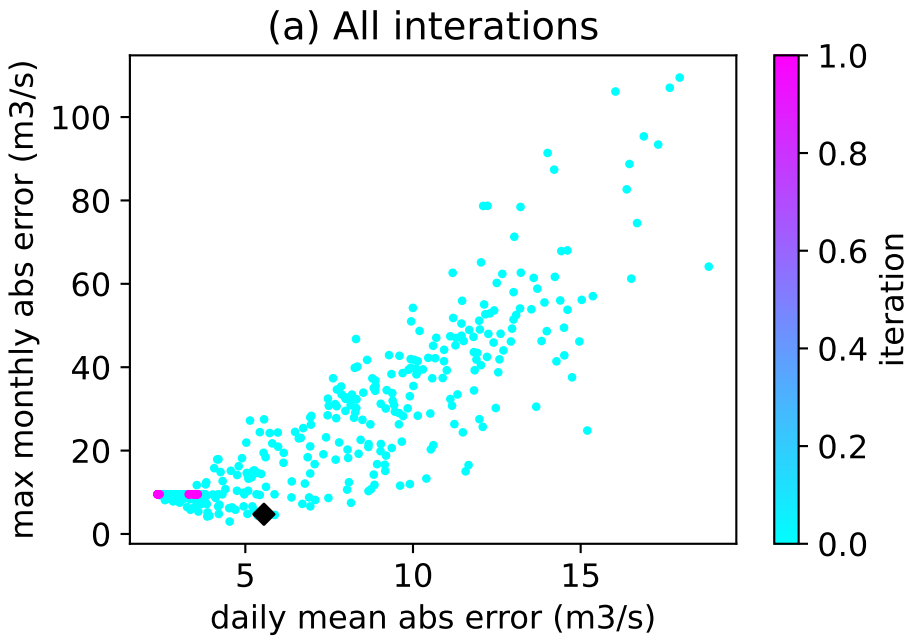
basinid: 335
hru_id: 6468170
lat_cen: 47.58715
lon_cen: -99.58698
AREA: 2833.19 km2
elev_mean: 511.84 m

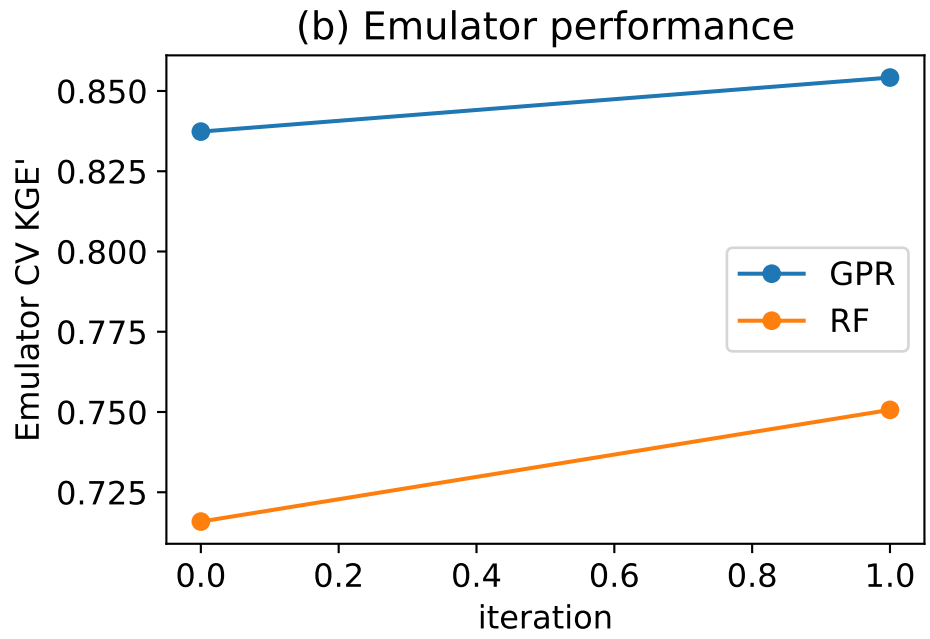


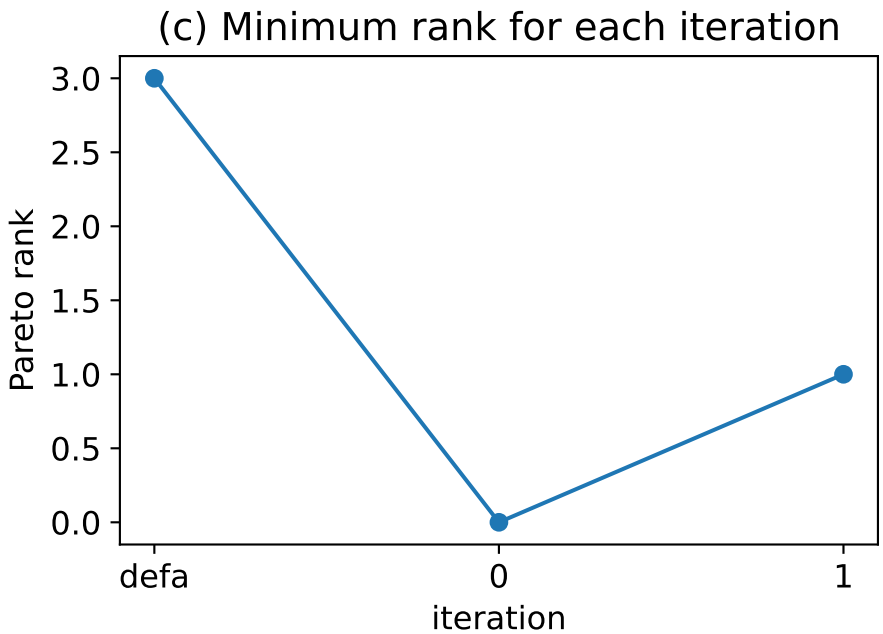




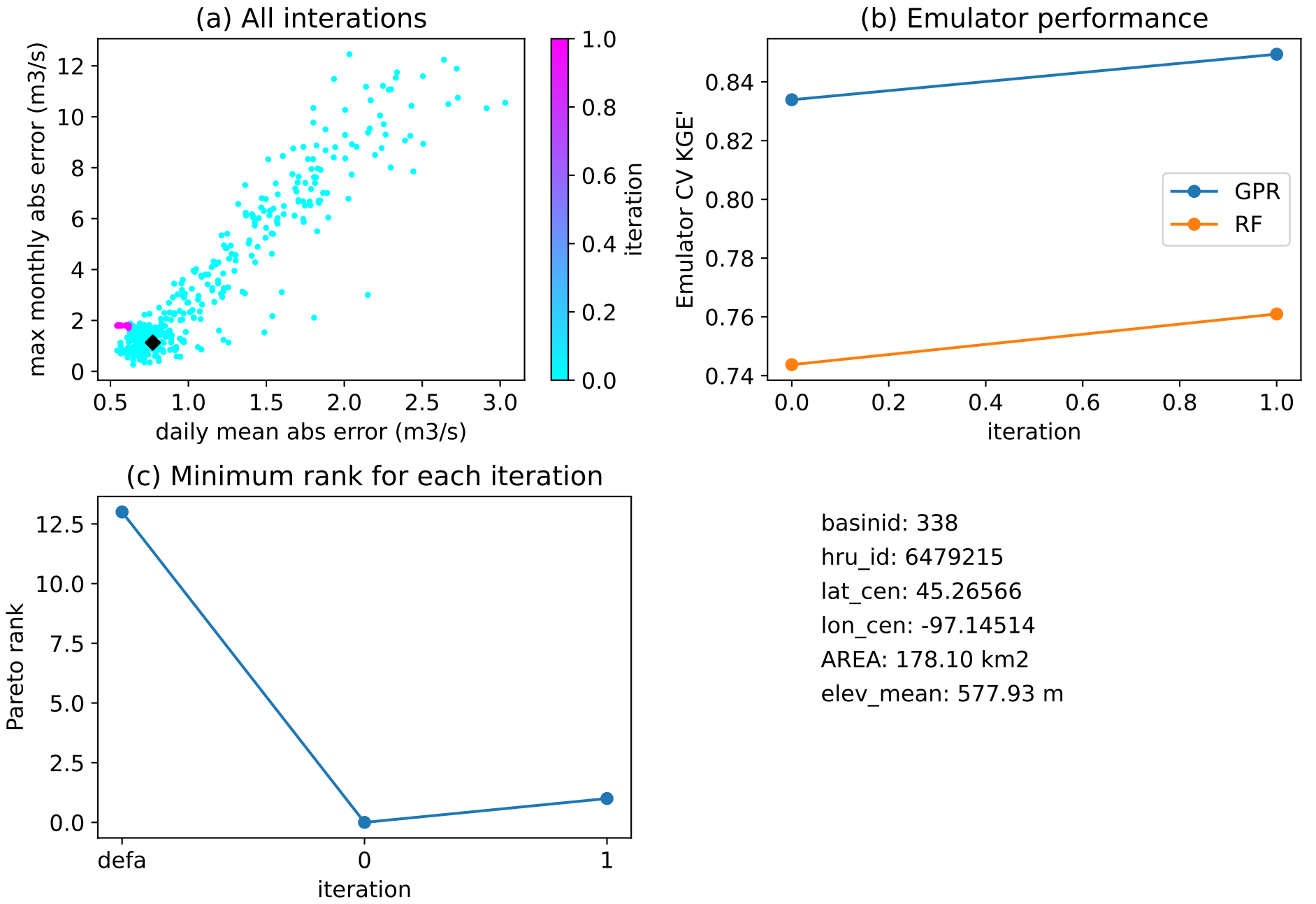
basinid: 336
hru_id: 6470800
lat_cen: 46.53032
lon_cen: -98.14881
AREA: 995.67 km2
elev_mean: 432.00 m

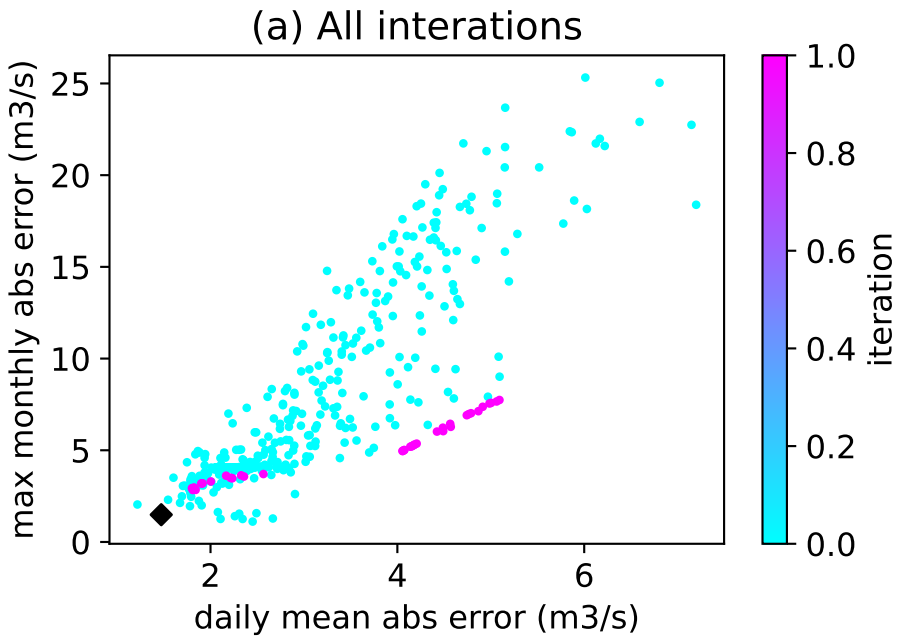


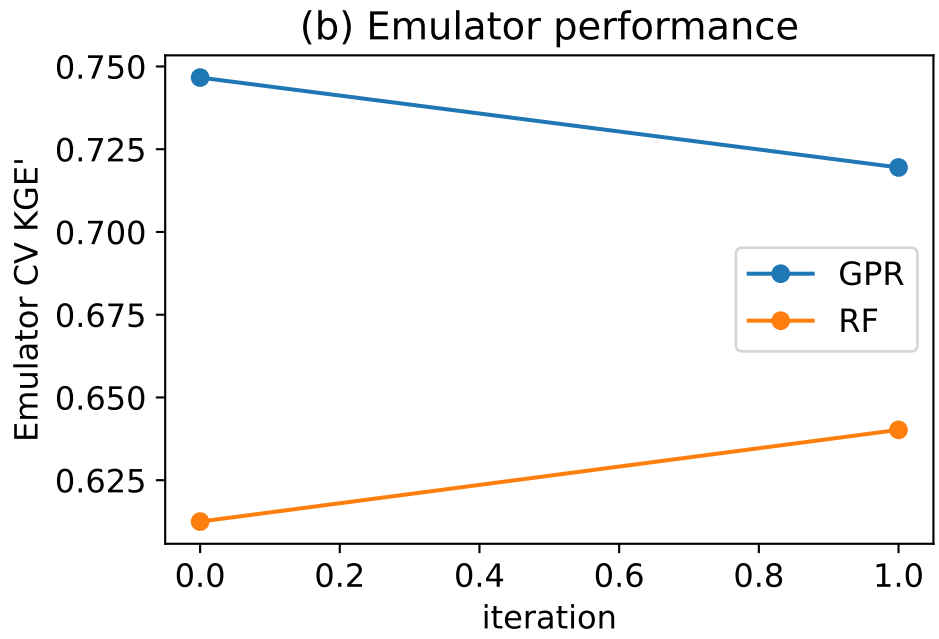


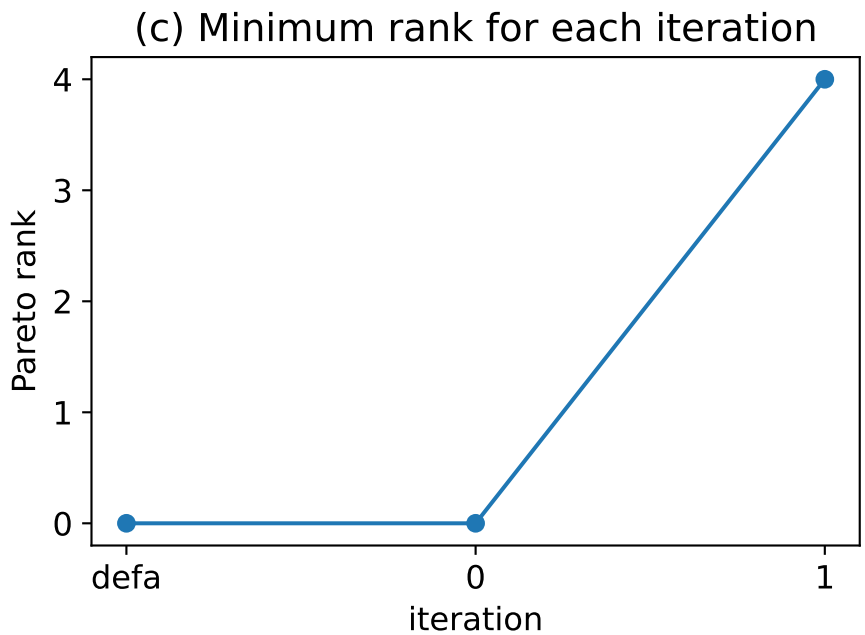


basinid: 337
hru_id: 6477500
lat_cen: 43.83596
lon_cen: -98.52748
AREA: 1533.66 km2
elev_mean: 470.29 m

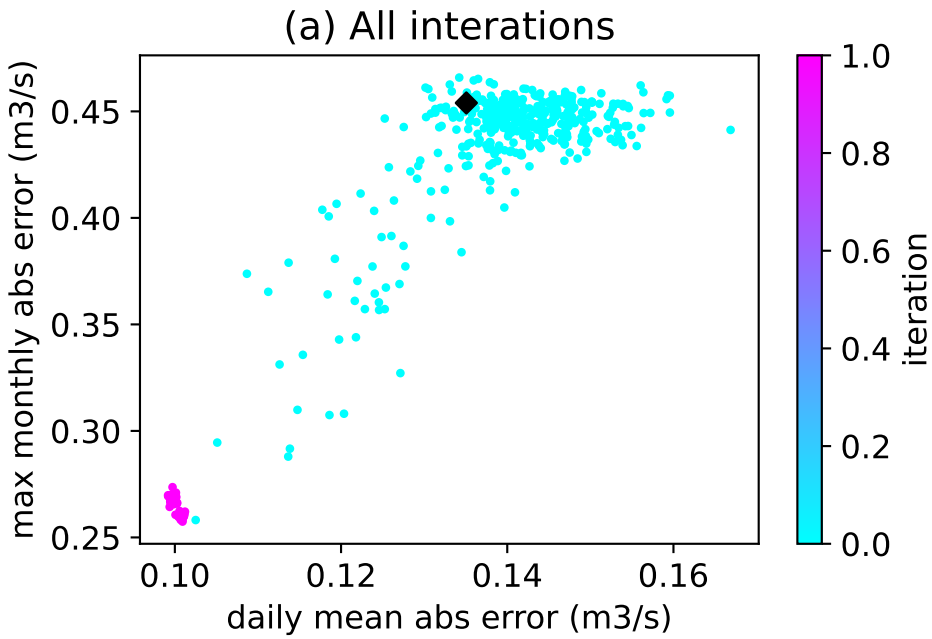

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 338
hru_id: 6479215
lat_cen: 45.26566
lon_cen: -97.14514
AREA: 178.10 km2
elev_mean: 577.93 m

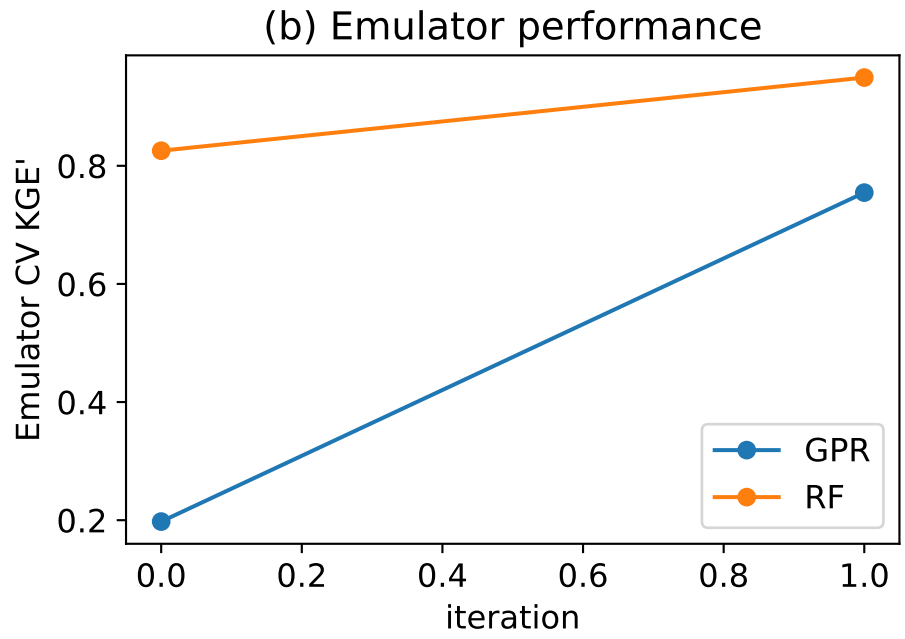


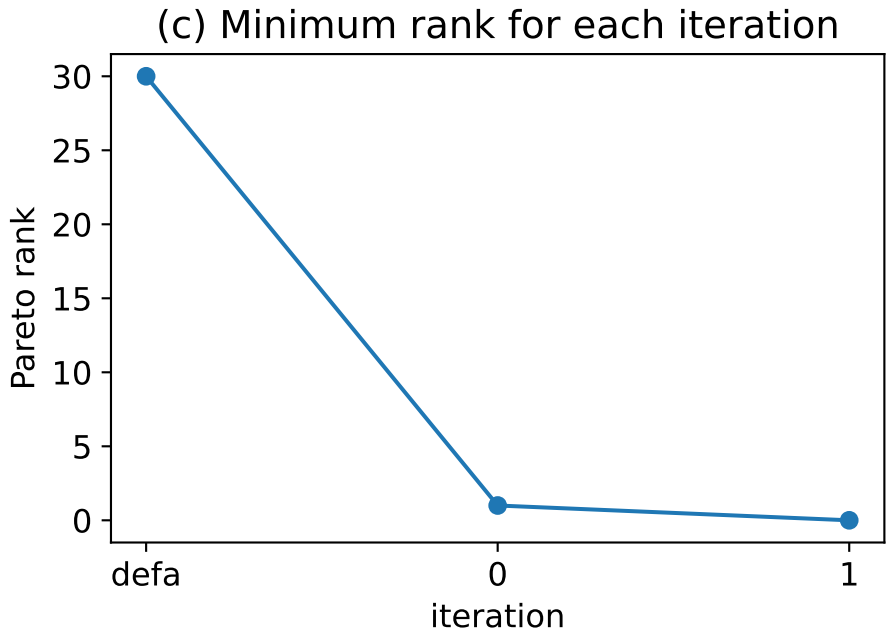




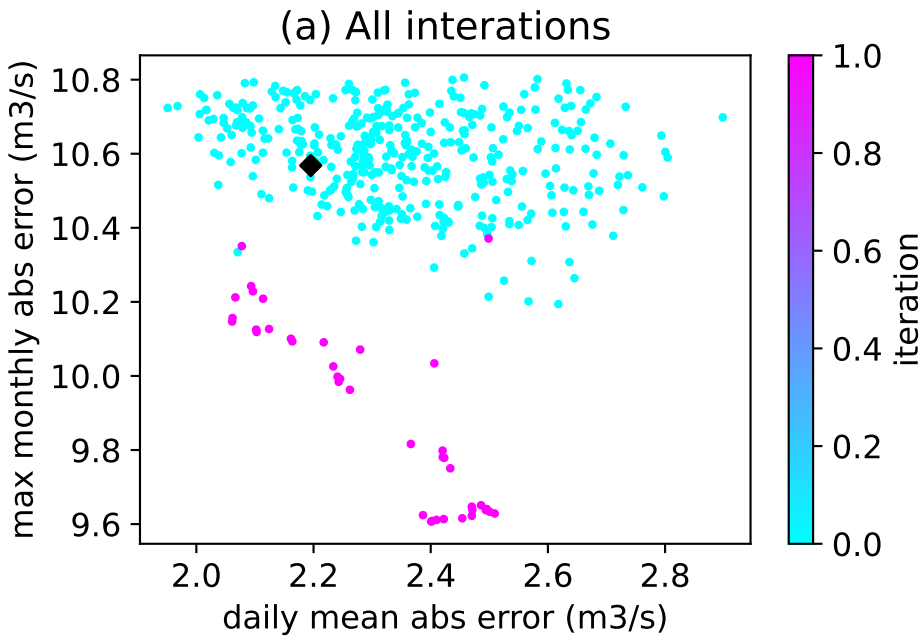
basinid: 339
hru_id: 6601000
lat_cen: 42.21661
lon_cen: -96.54116
AREA: 453.16 km2
elev_mean: 411.25 m

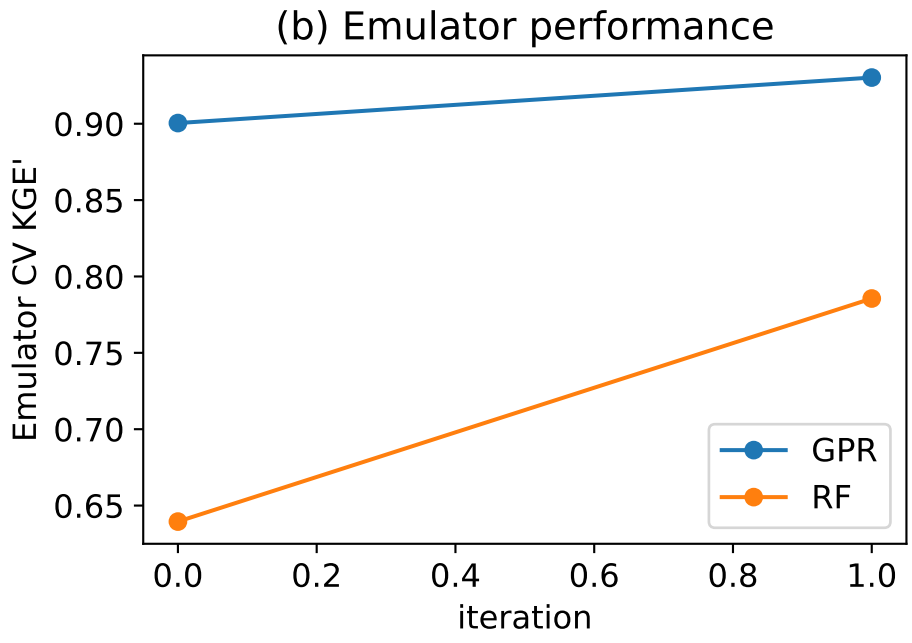


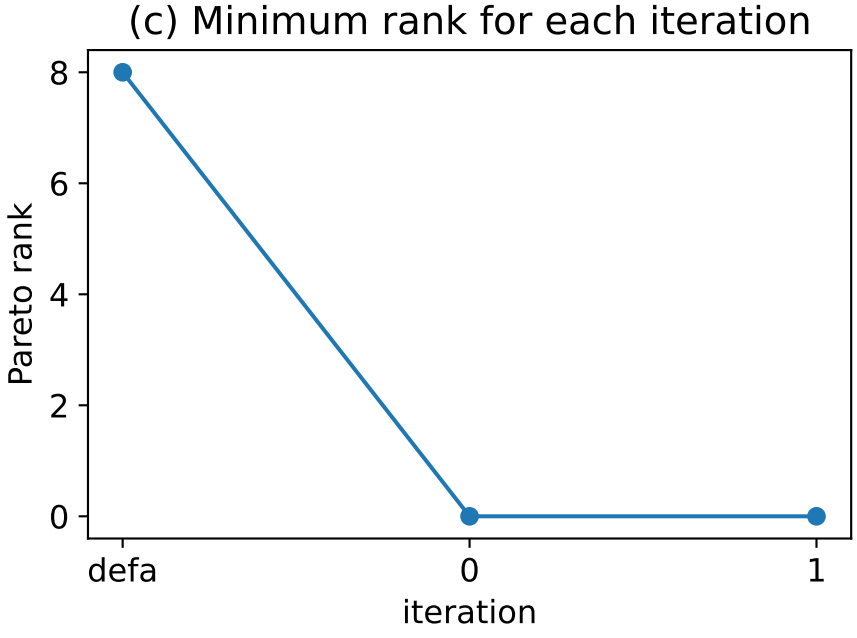




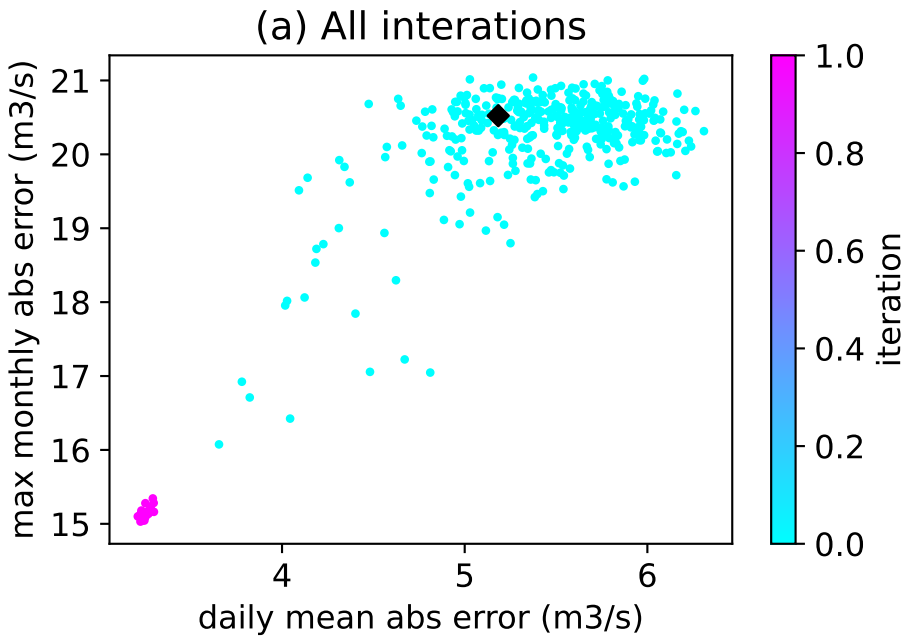
basinid: 340
hru_id: 6614800
lat_cen: 40.48575
lon_cen: -105.87174
AREA: 4.10 km2
elev_mean: 3406.25 m

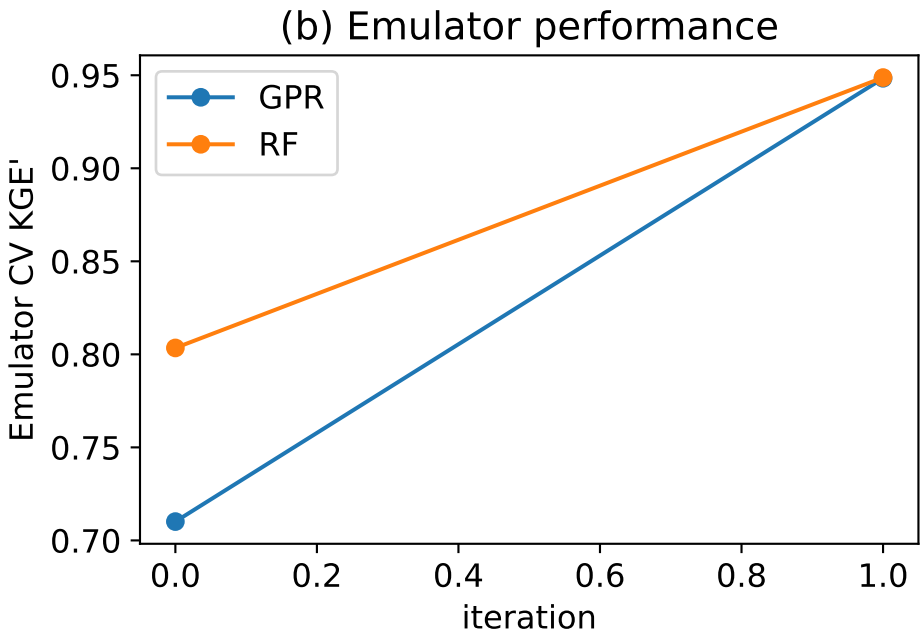


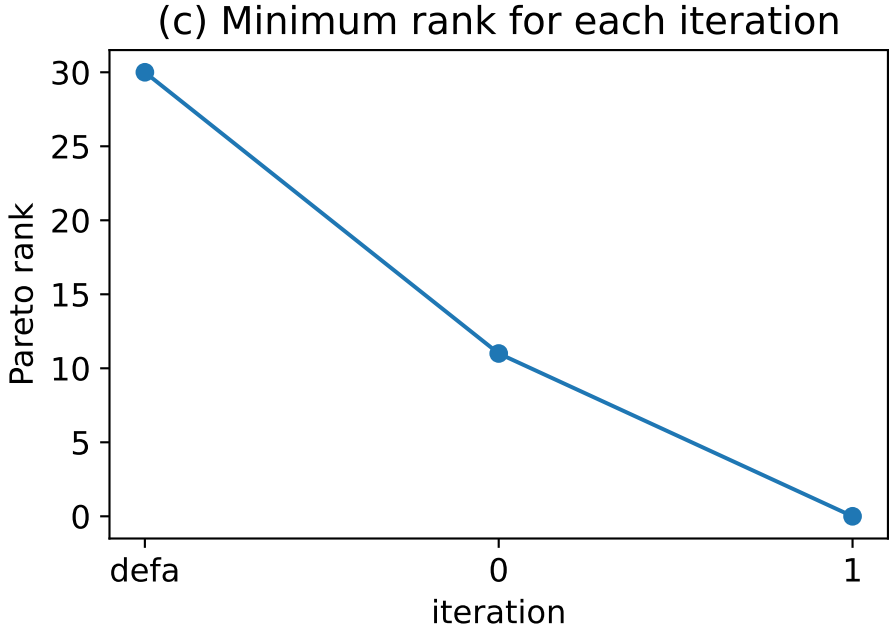




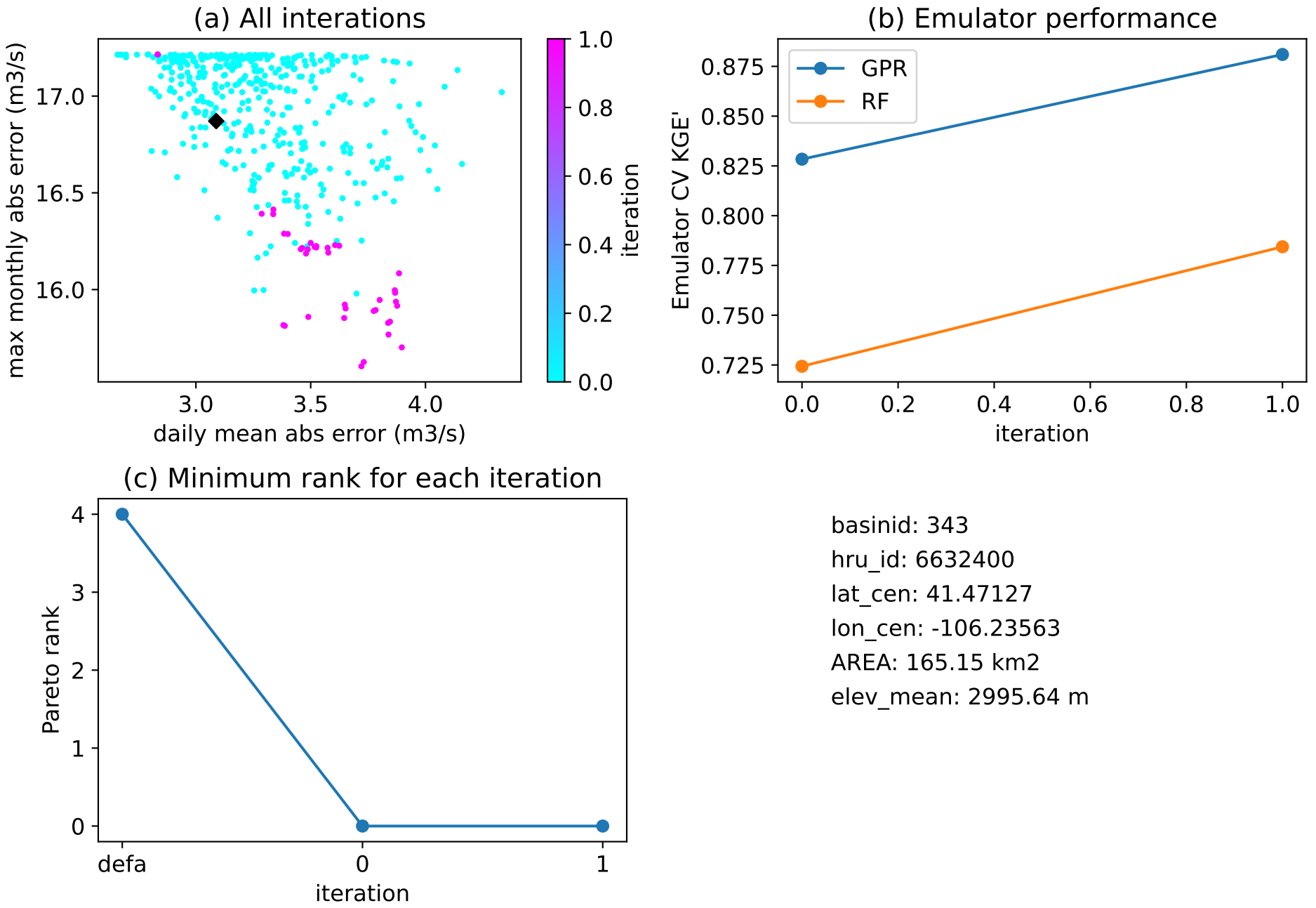
basinid: 341
hru_id: 6622700
lat_cen: 41.39968
lon_cen: -106.45331
AREA: 101.52 km2
elev_mean: 2851.67 m

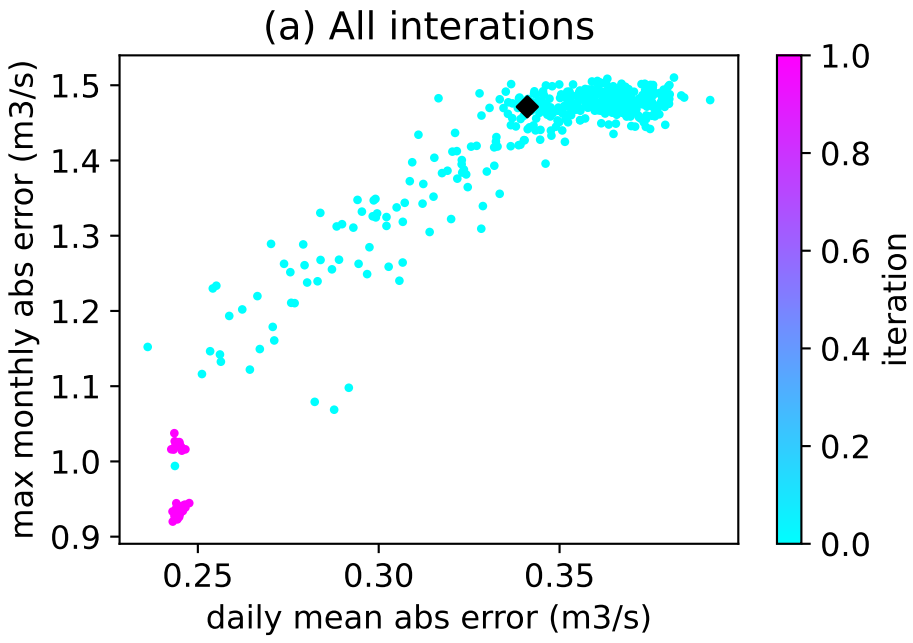


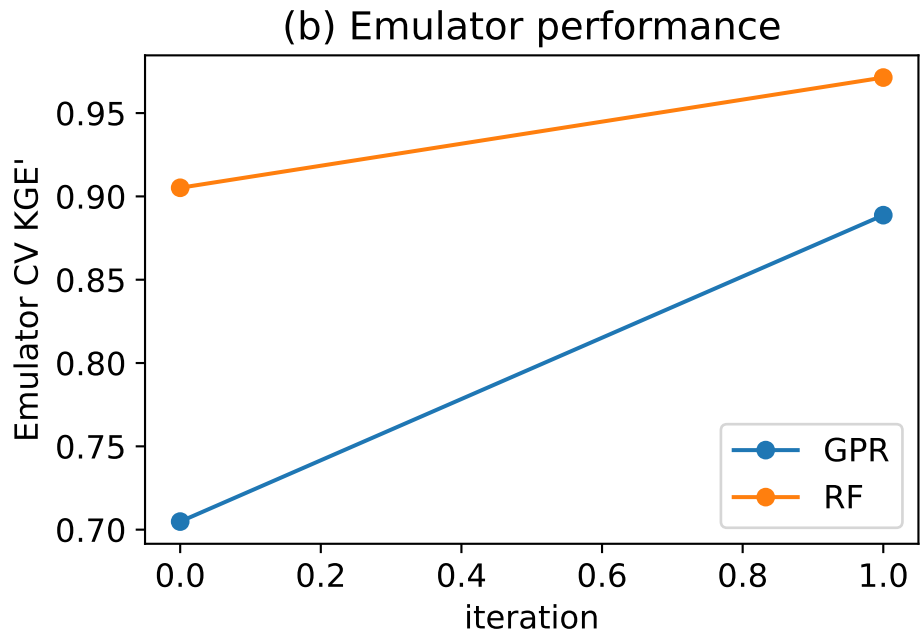


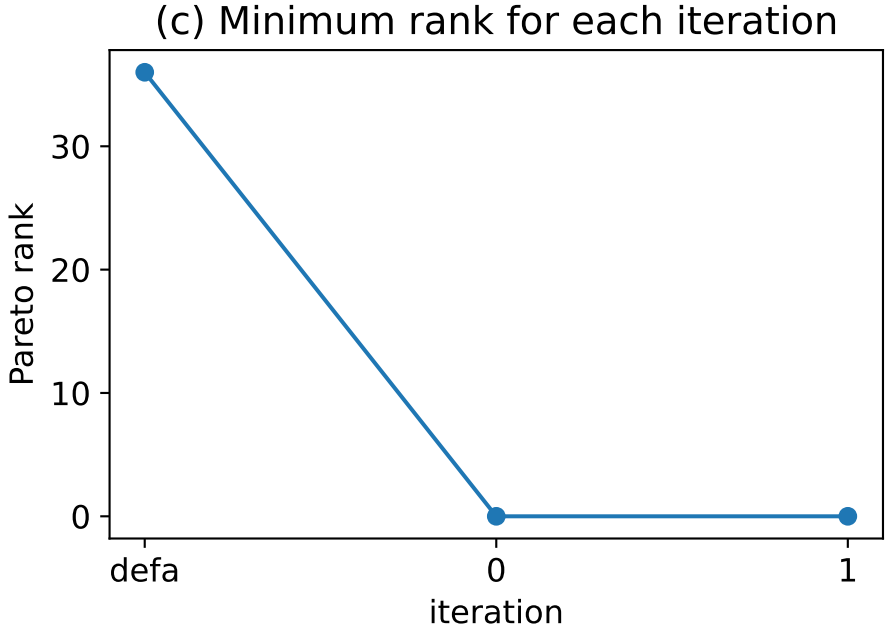


basinid: 342
hru_id: 6623800
lat_cen: 40.96984
lon_cen: -106.75427
AREA: 188.70 km2
elev_mean: 2919.47 m

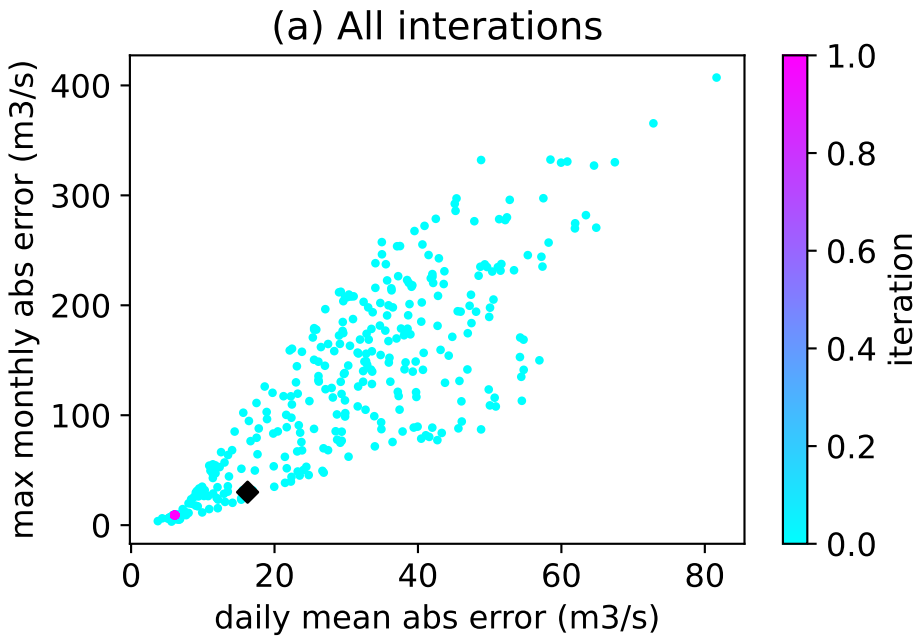

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 343
hru_id: 6632400
lat_cen: 41.47127
lon_cen: -106.23563
AREA: 165.15 km2
elev_mean: 2995.64 m

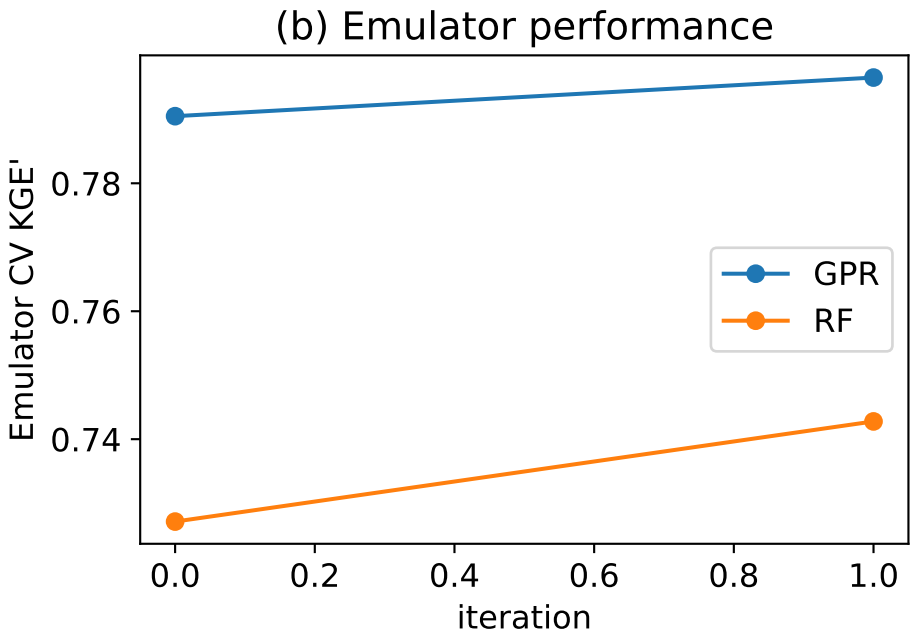


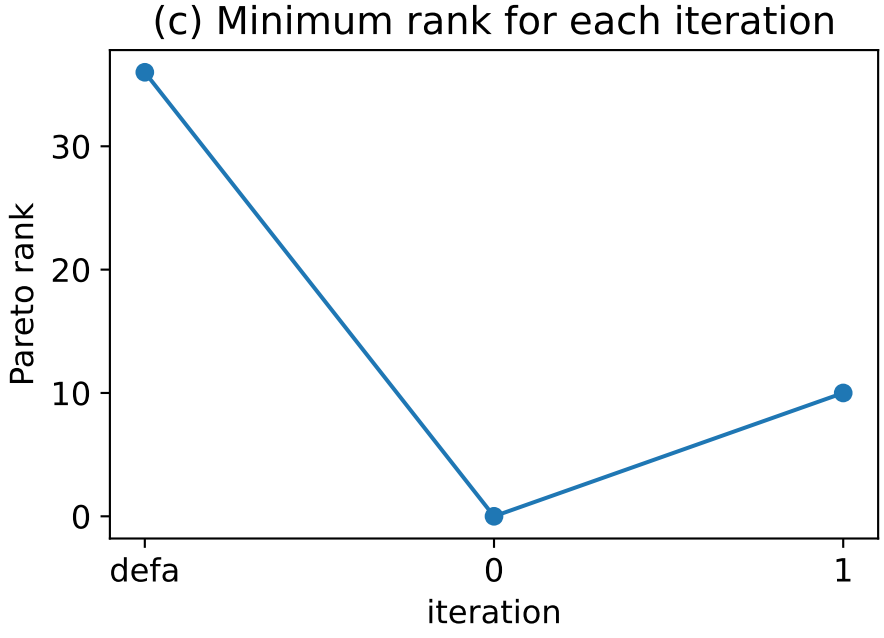




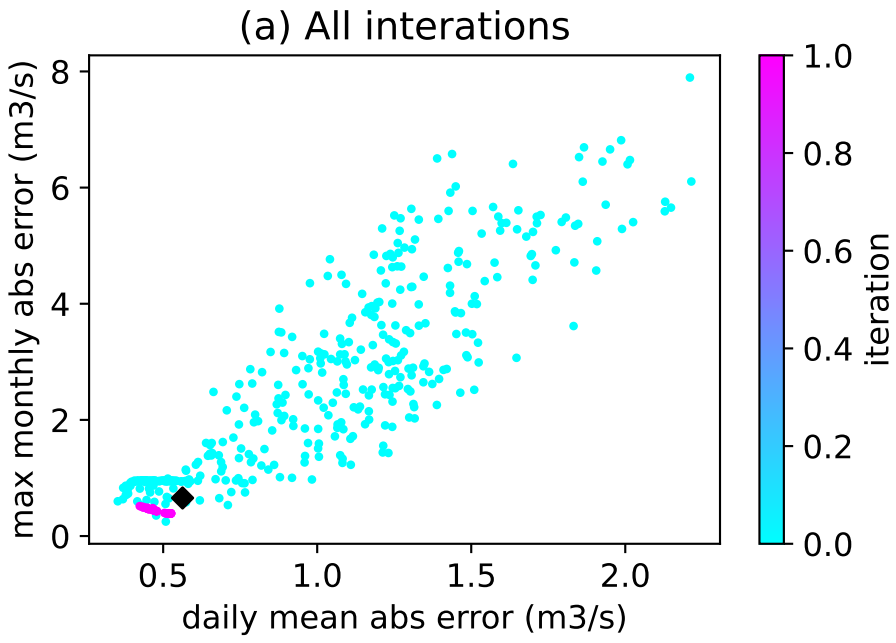
basinid: 344
hru_id: 6746095
lat_cen: 40.52941
lon_cen: -105.88476
AREA: 9.26 km2
elev_mean: 3283.78 m

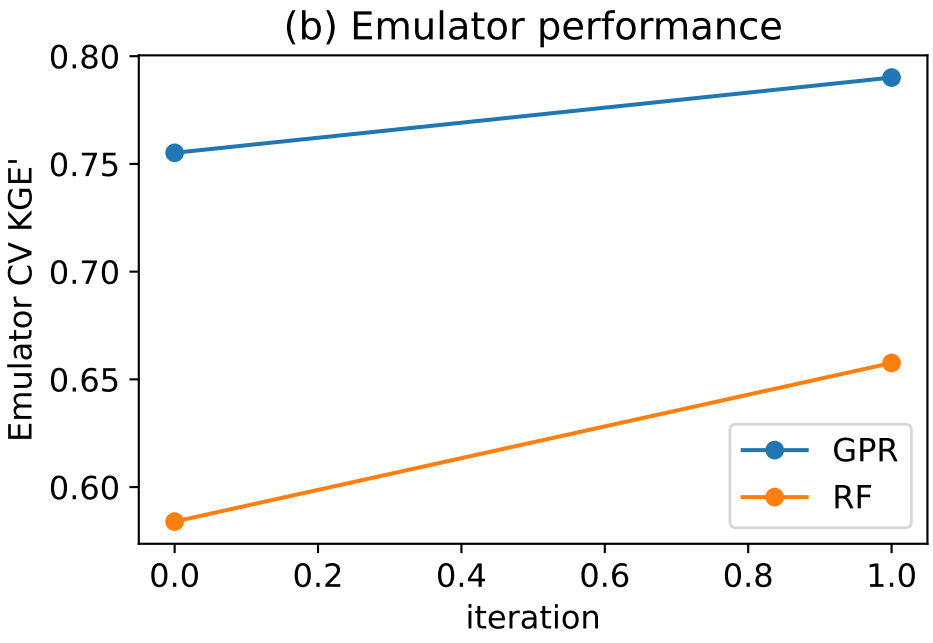


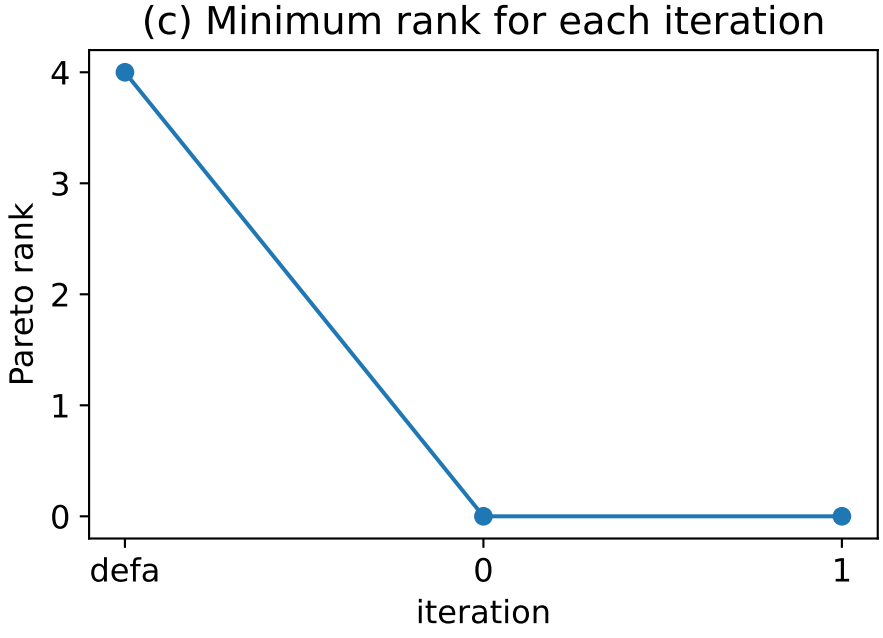




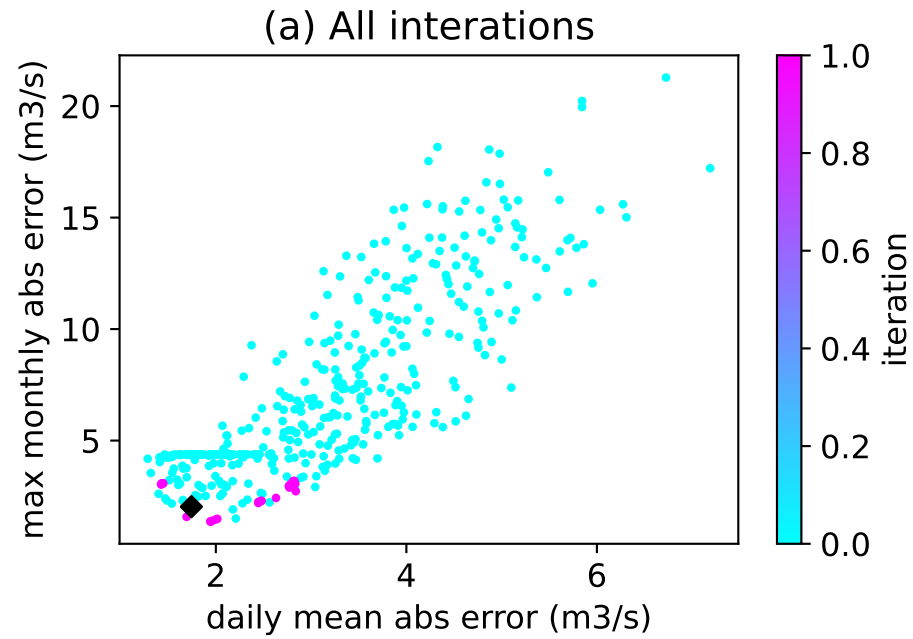
basinid: 345
hru_id: 6784000
lat_cen: 41.3055
lon_cen: -99.71753
AREA: 6387.00 km2
elev_mean: 788.46 m

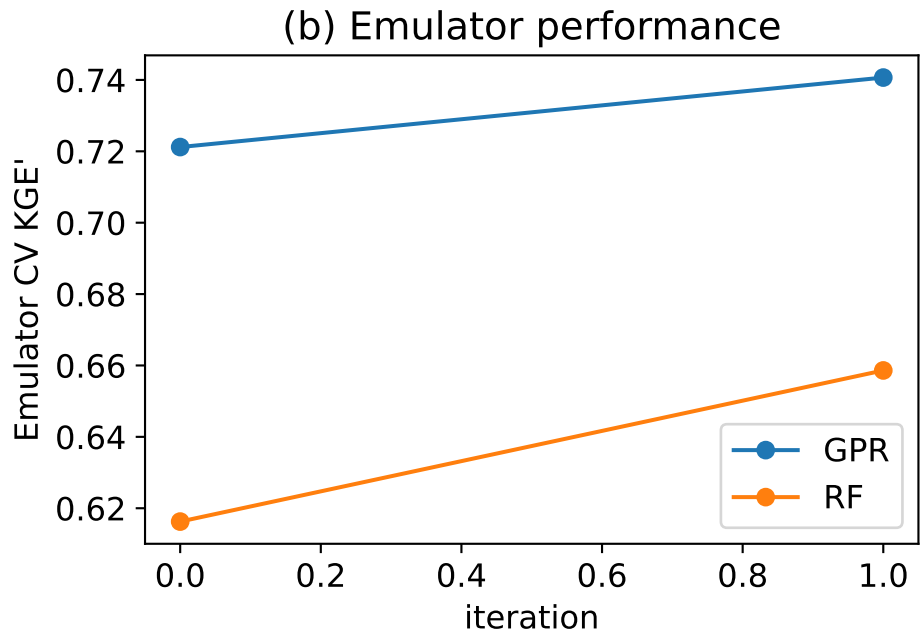


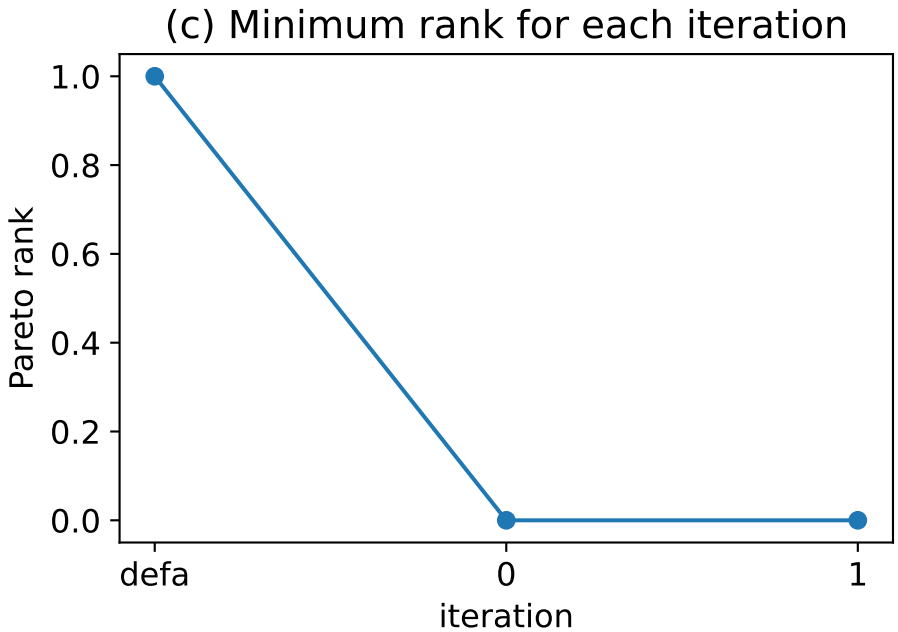




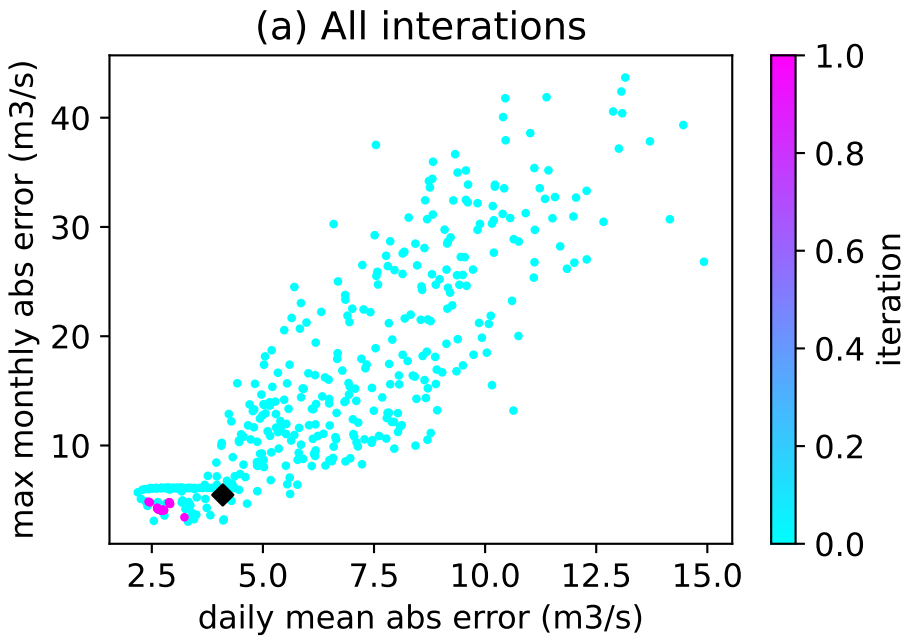
basinid: 346
hru_id: 6803510
lat_cen: 40.95361
lon_cen: -96.7152
AREA: 118.28 km2
elev_mean: 385.40 m

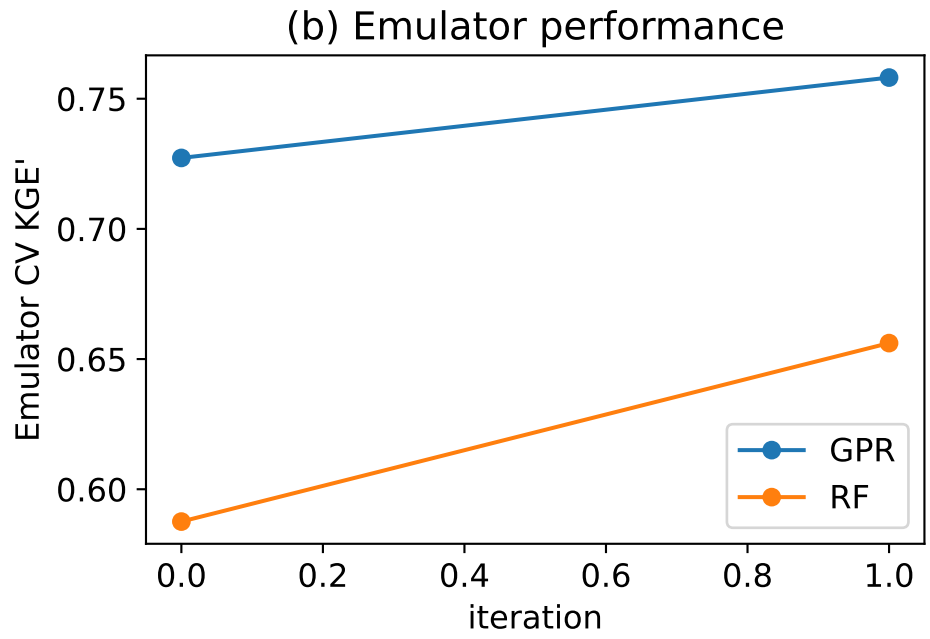


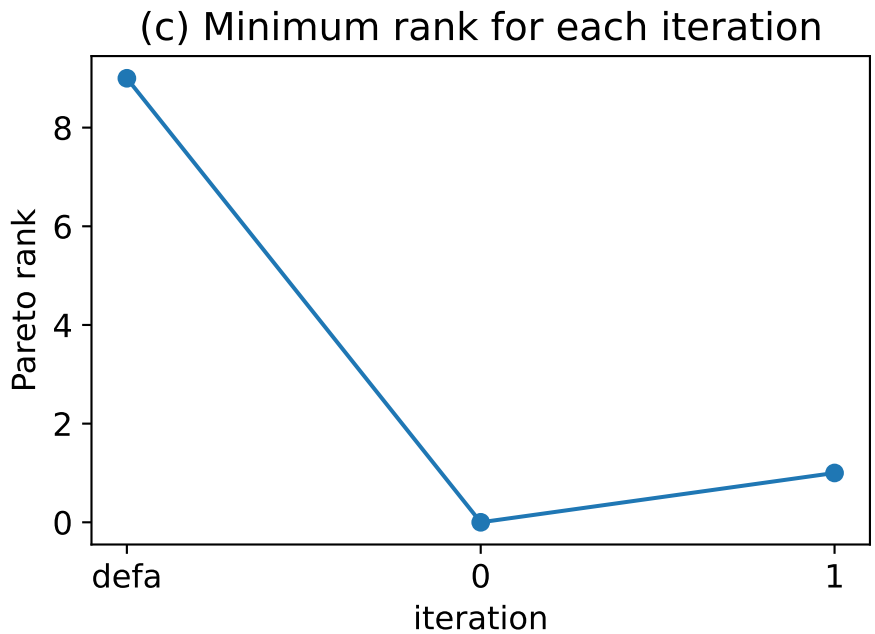




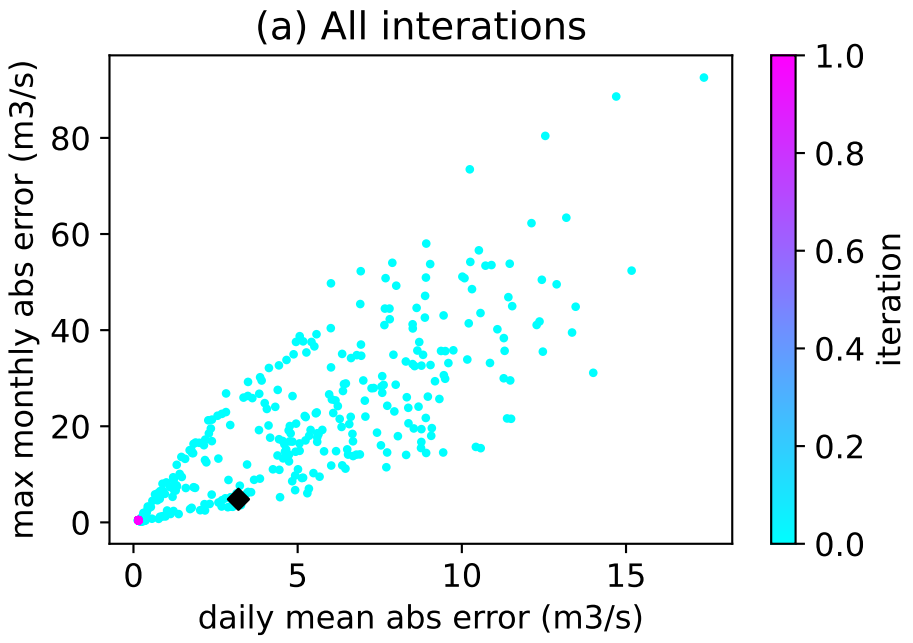
basinid: 347
hru_id: 6803530
lat_cen: 41.06547
lon_cen: -96.6707
AREA: 309.73 km2
elev_mean: 394.56 m

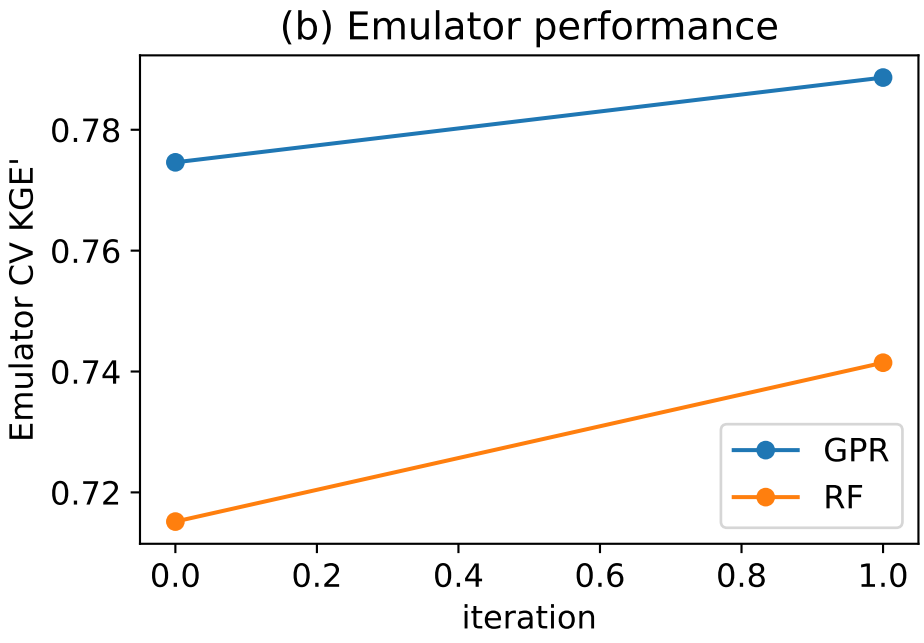


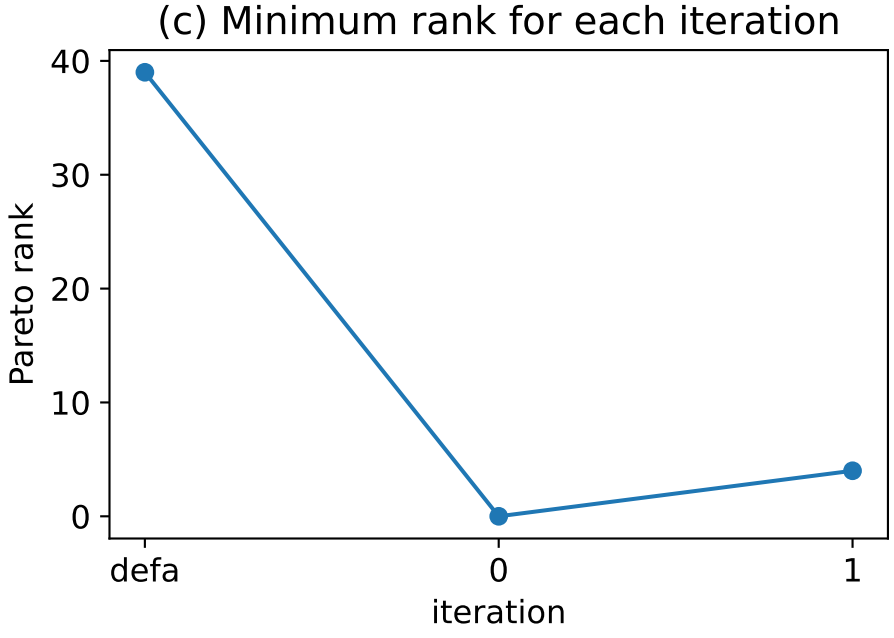




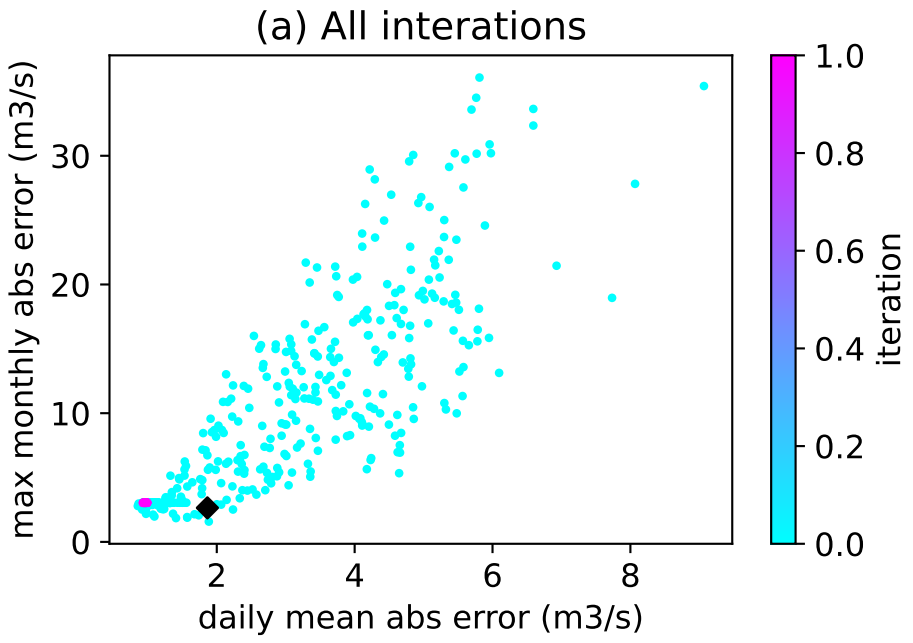
basinid: 348
hru_id: 6814000
lat_cen: 40.08843
lon_cen: -96.2556
AREA: 717.30 km2
elev_mean: 400.85 m

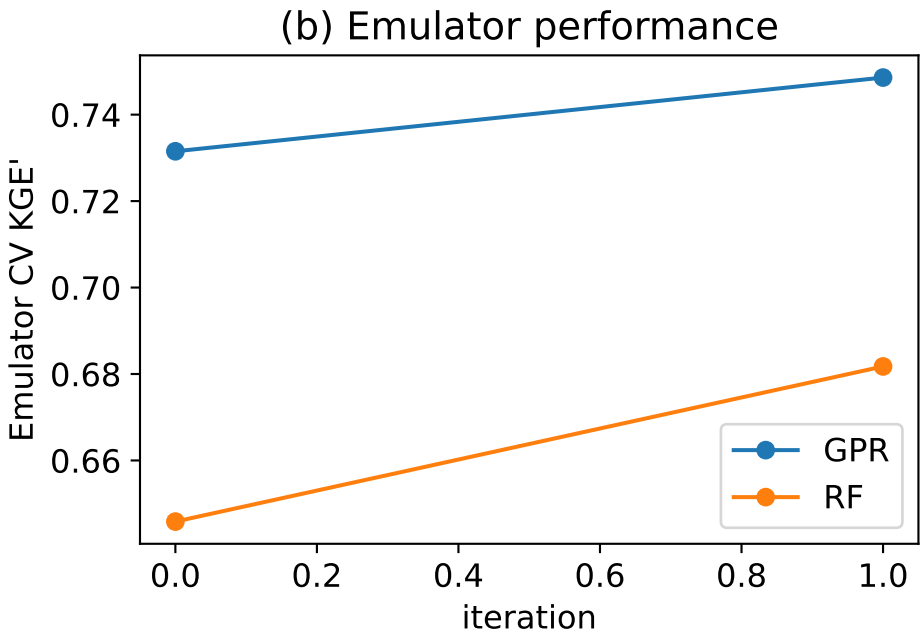


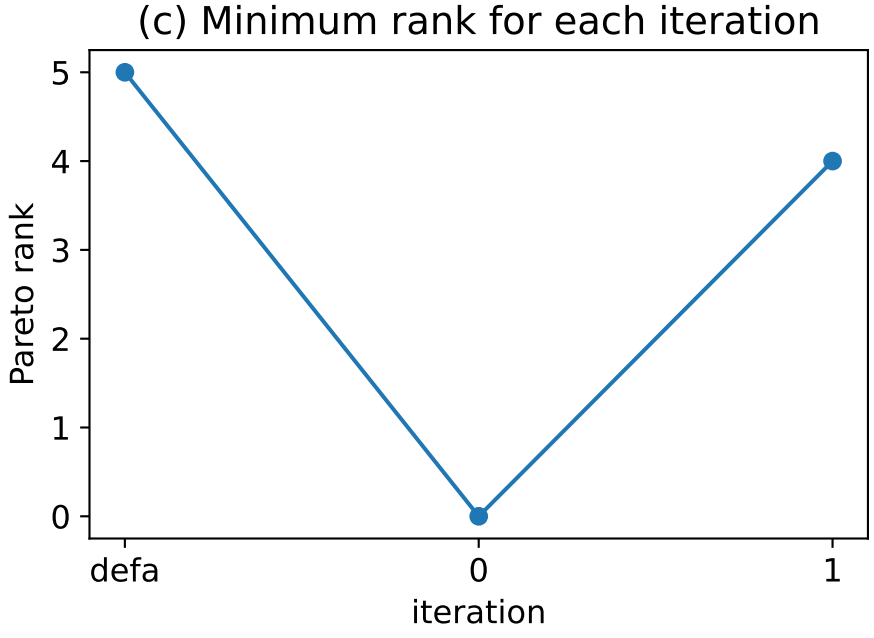




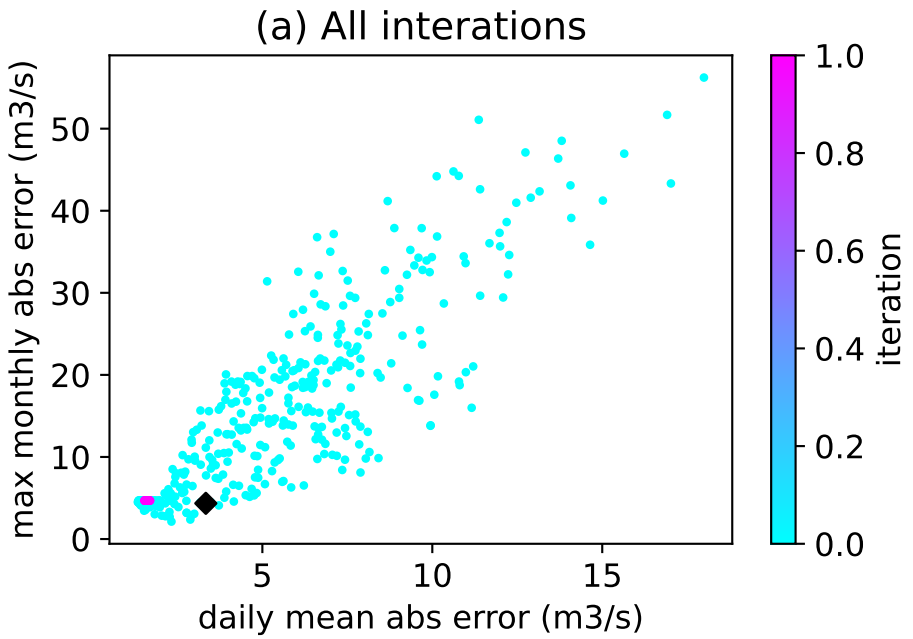
basinid: 349
hru_id: 6847900
lat_cen: 39.60205
lon_cen: -100.5942
AREA: 1539.19 km2
elev_mean: 855.23 m

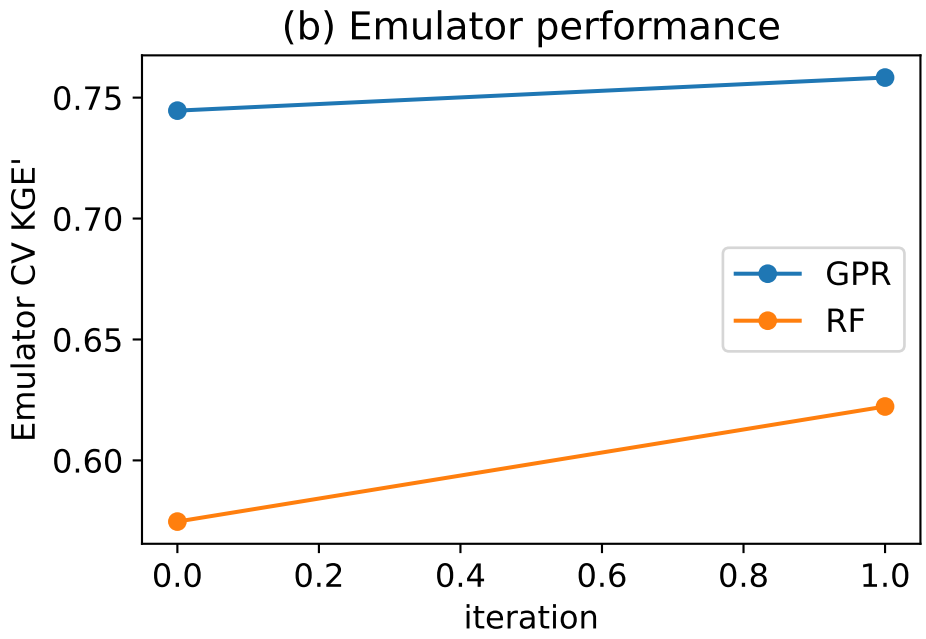


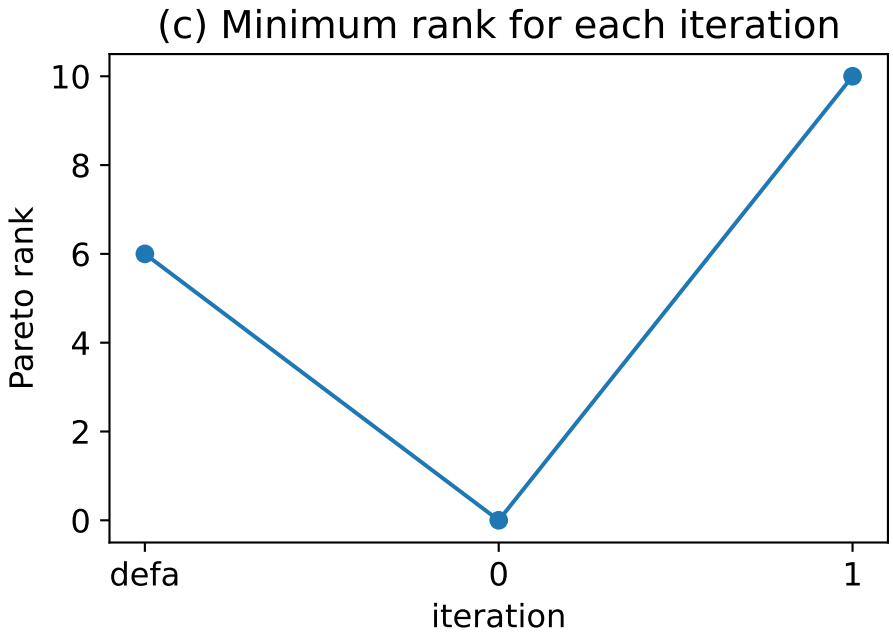




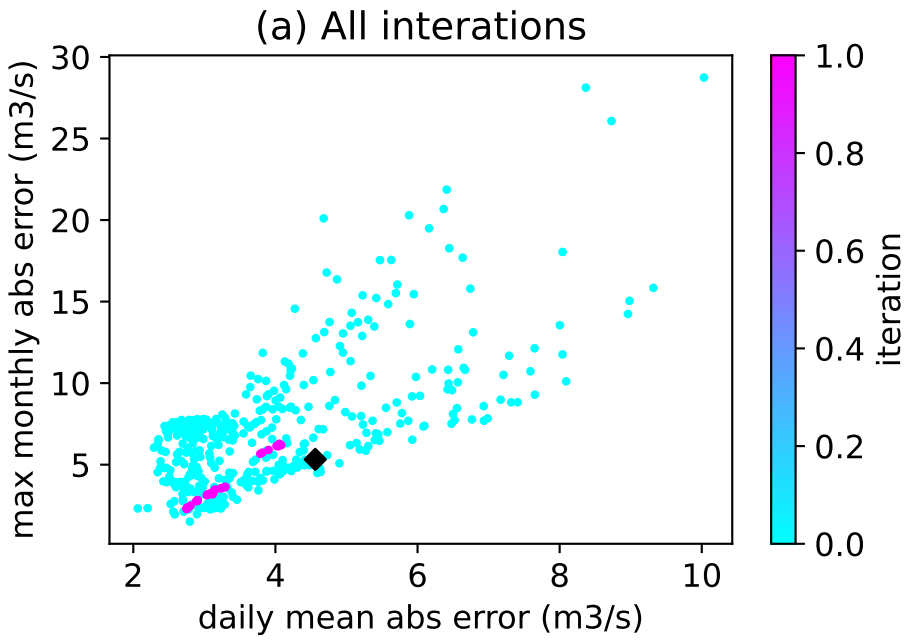
basinid: 350
hru_id: 6853800
lat_cen: 39.911
lon_cen: -98.46654
AREA: 597.20 km2
elev_mean: 566.63 m

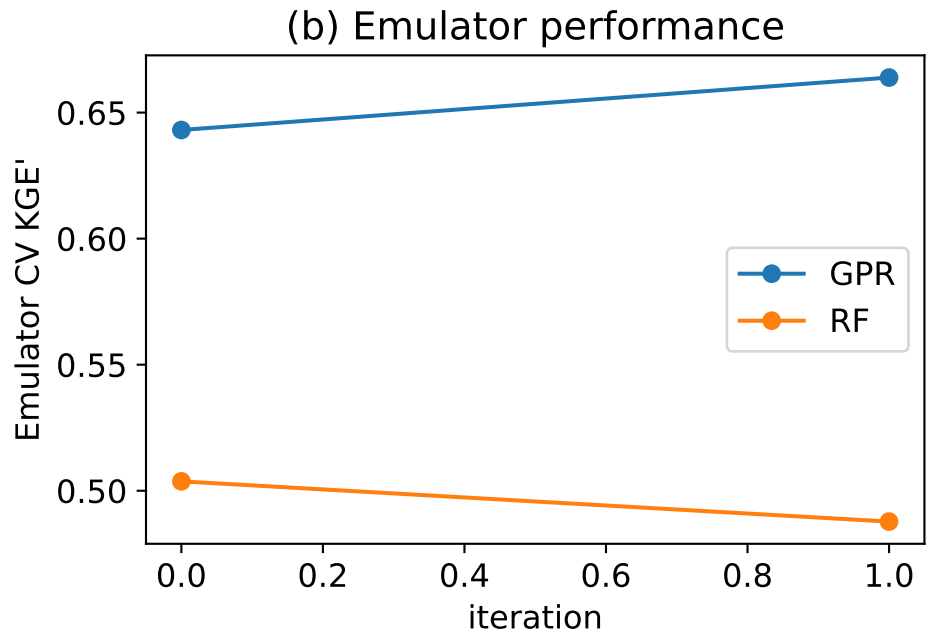


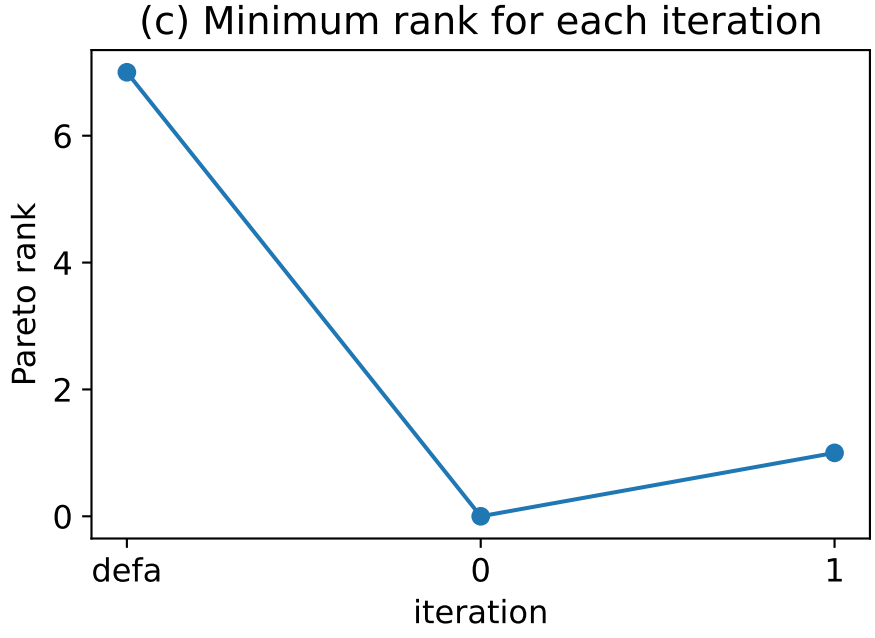




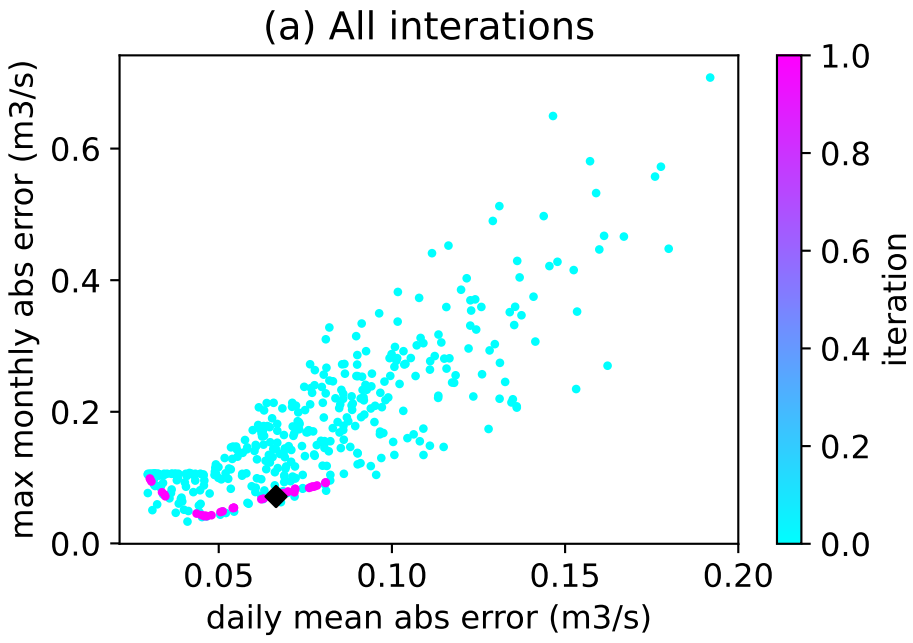
basinid: 351
hru_id: 6876700
lat_cen: 39.21838
lon_cen: -98.0959
AREA: 1054.07 km2
elev_mean: 450.57 m

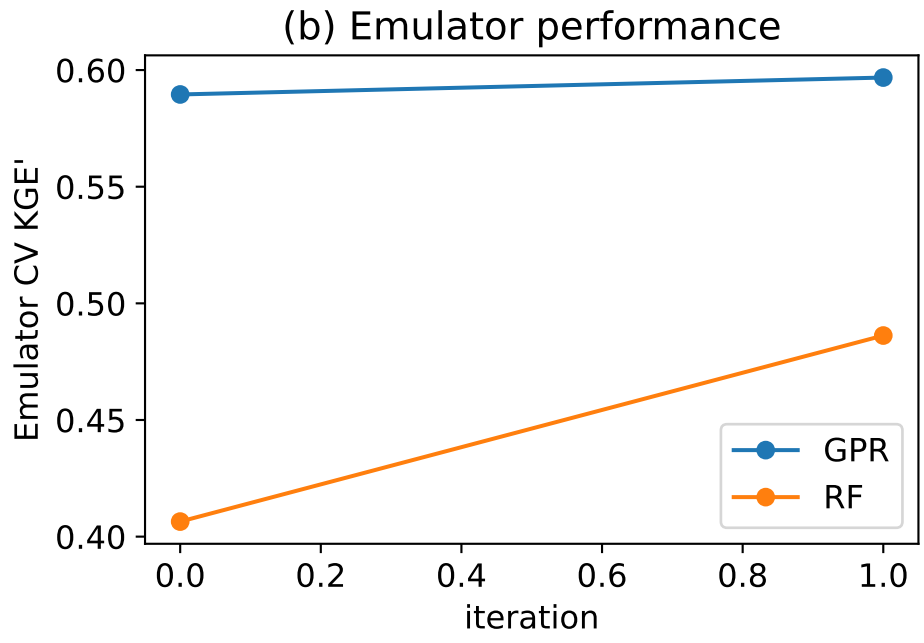


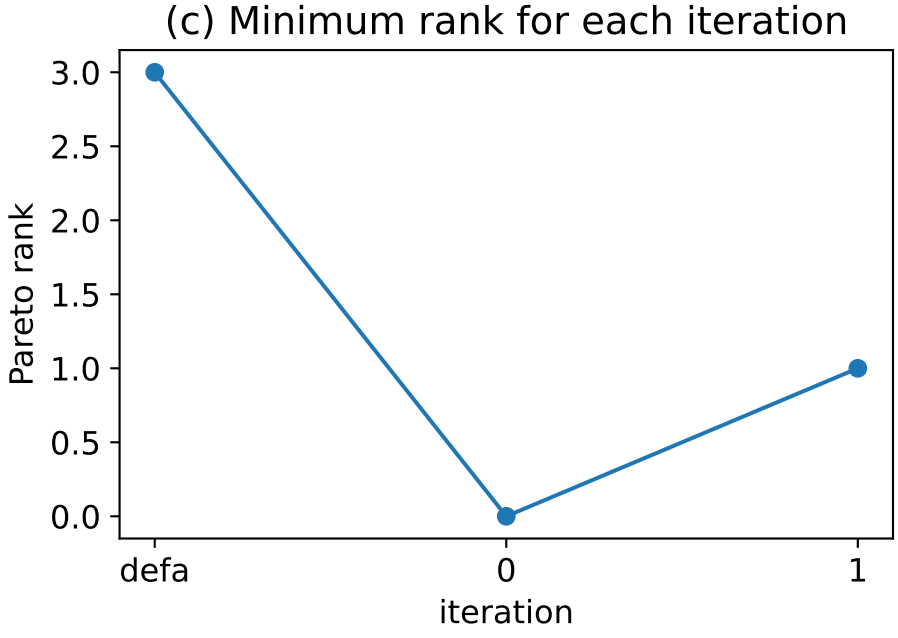




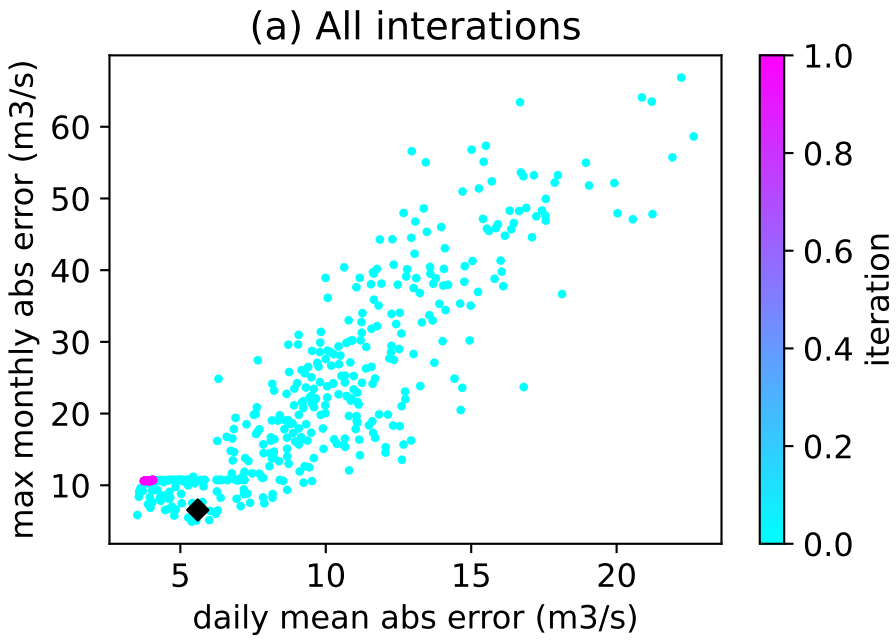
basinid: 352
hru_id: 6878000
lat_cen: 39.19349
lon_cen: -97.27578
AREA: 777.89 km2
elev_mean: 404.34 m

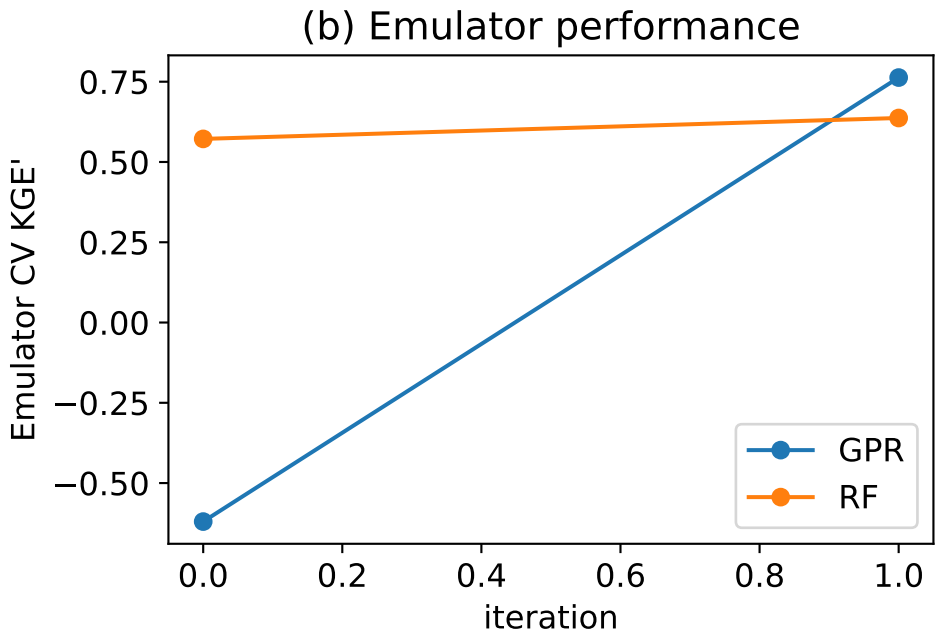


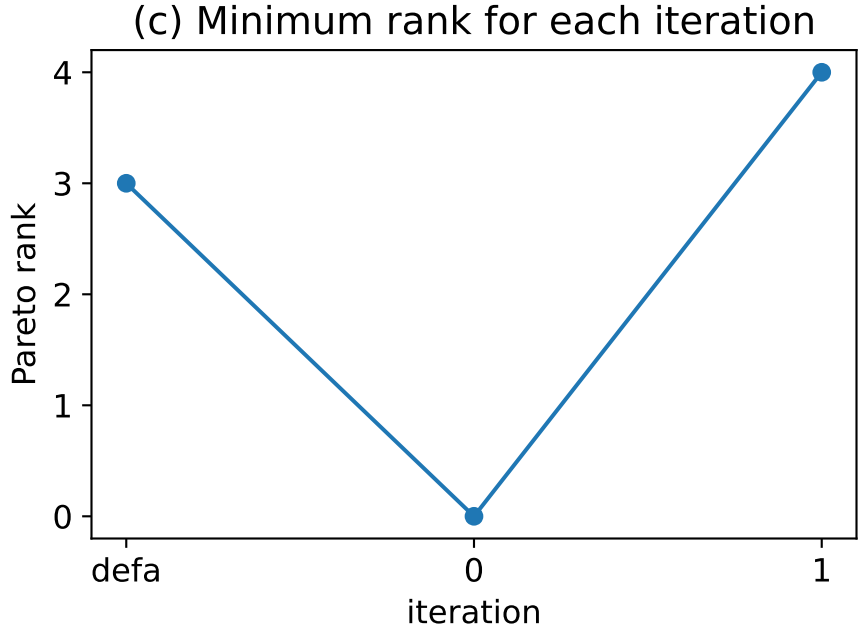




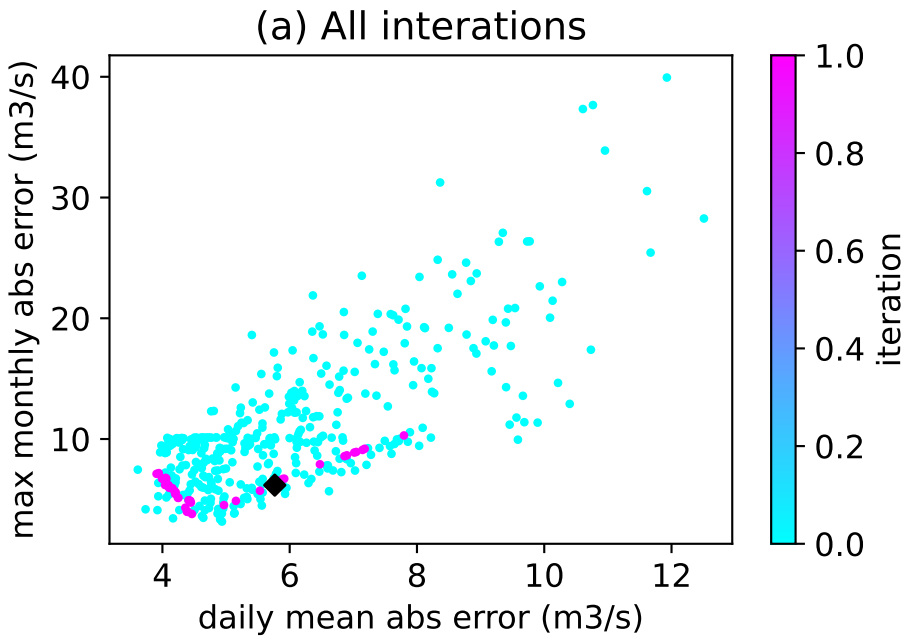
basinid: 353
hru_id: 6879650
lat_cen: 39.09235
lon_cen: -96.57892
AREA: 12.51 km2
elev_mean: 394.13 m

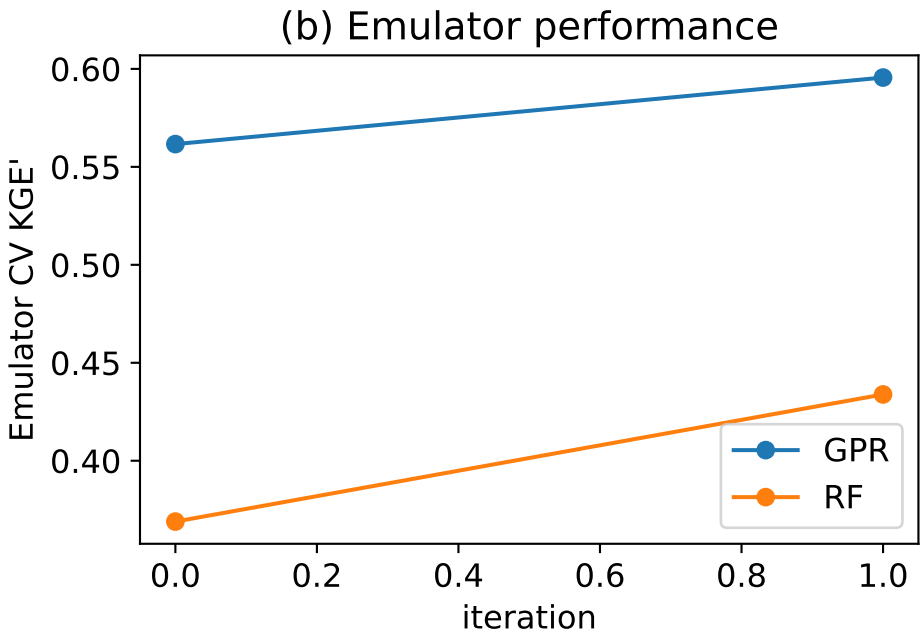


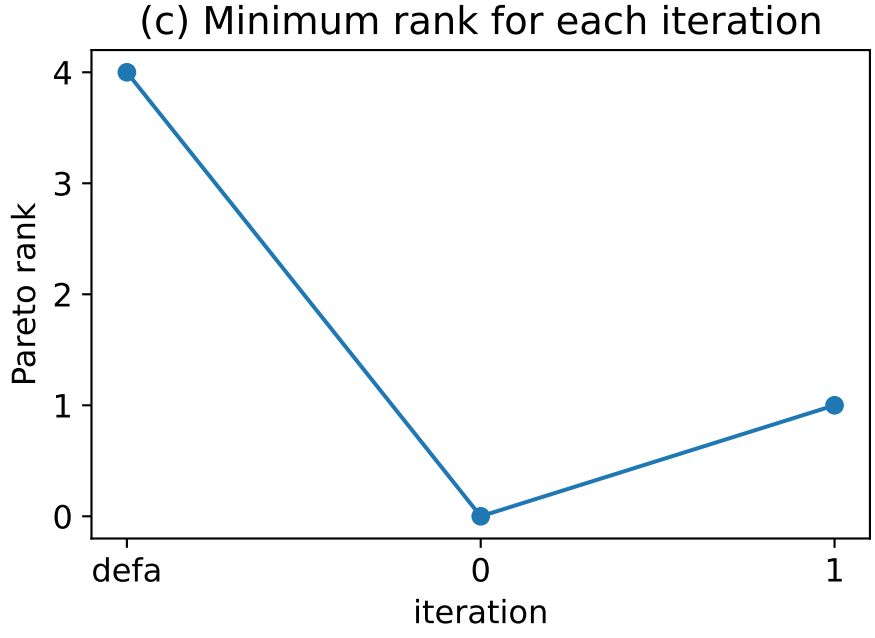




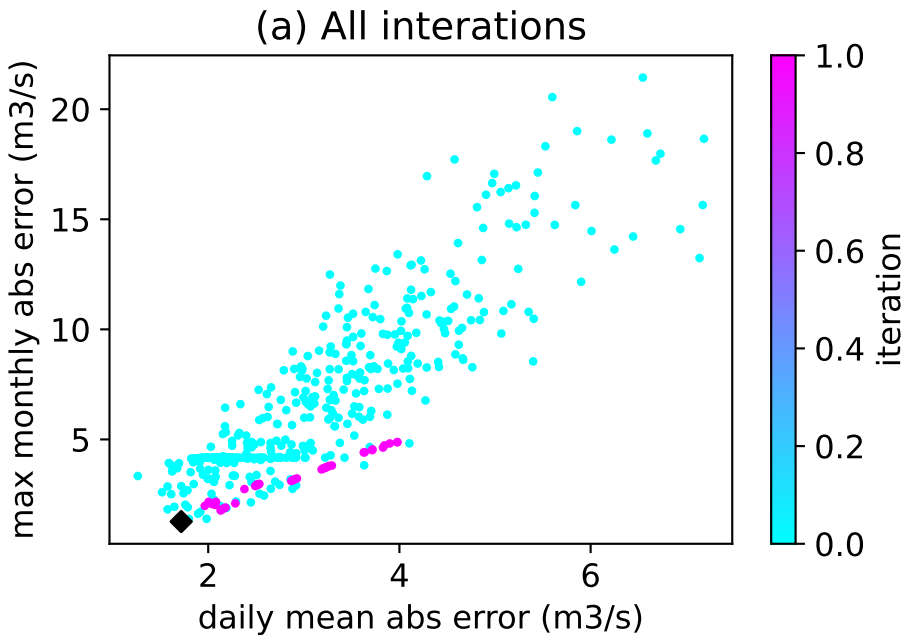
basinid: 354
hru_id: 6885500
lat_cen: 39.77304
lon_cen: -96.31728
AREA: 1075.16 km2
elev_mean: 402.95 m

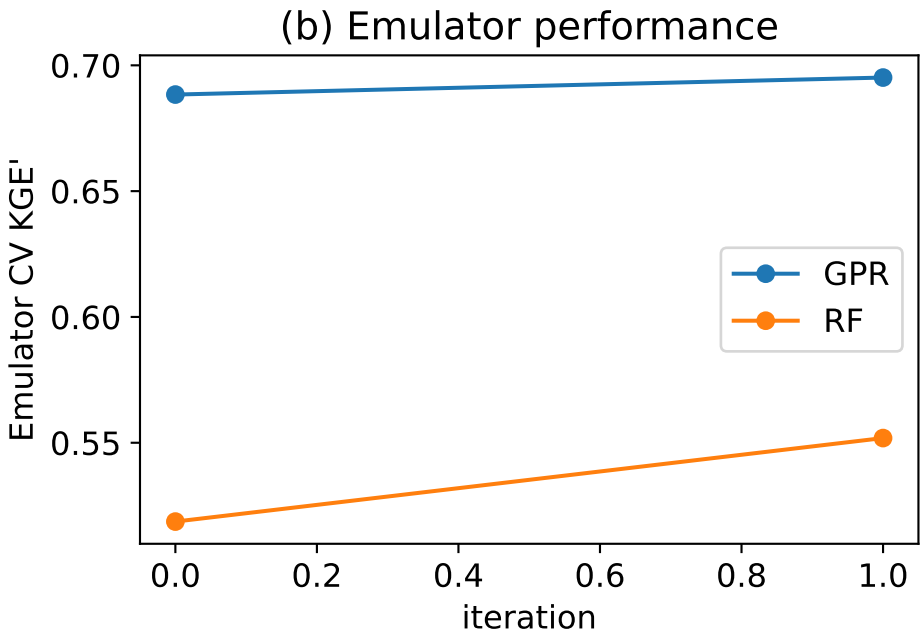


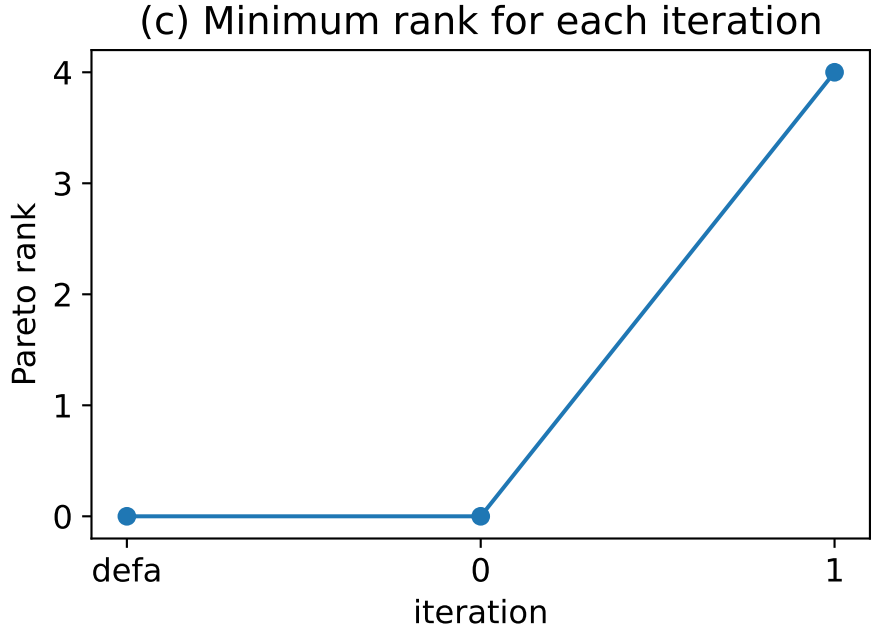




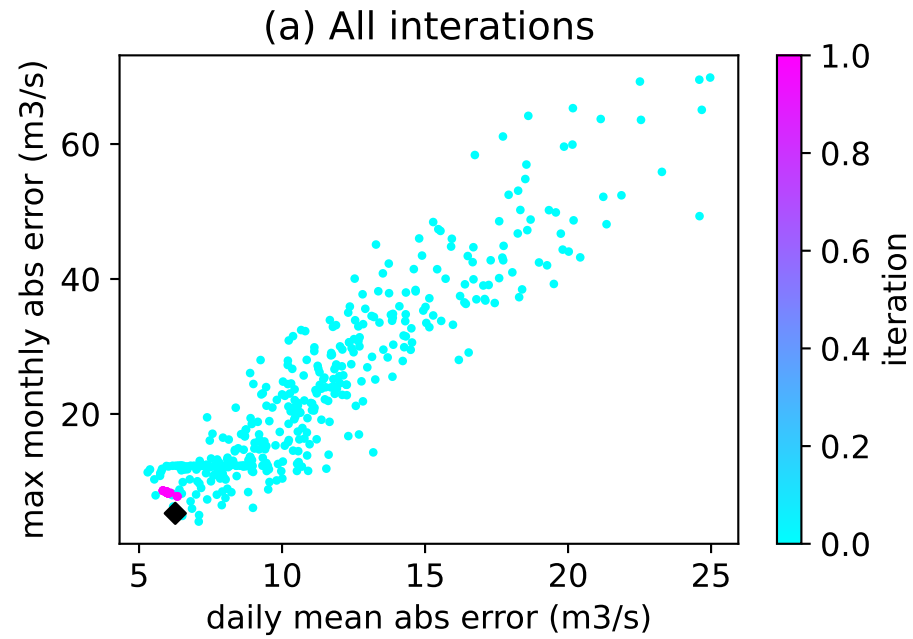
basinid: 355
hru_id: 6888500
lat_cen: 38.95412
lon_cen: -96.31369
AREA: 842.54 km2
elev_mean: 401.27 m

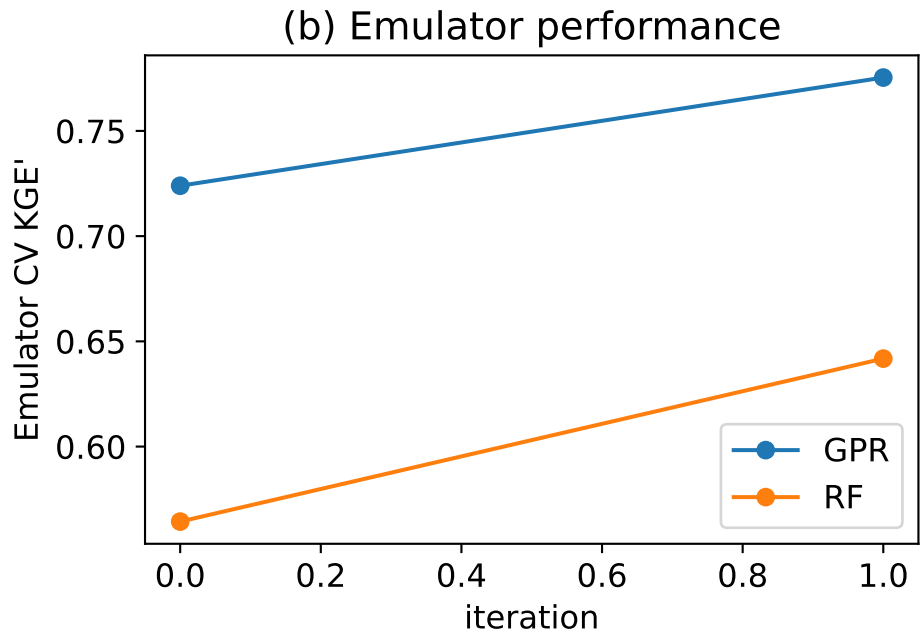


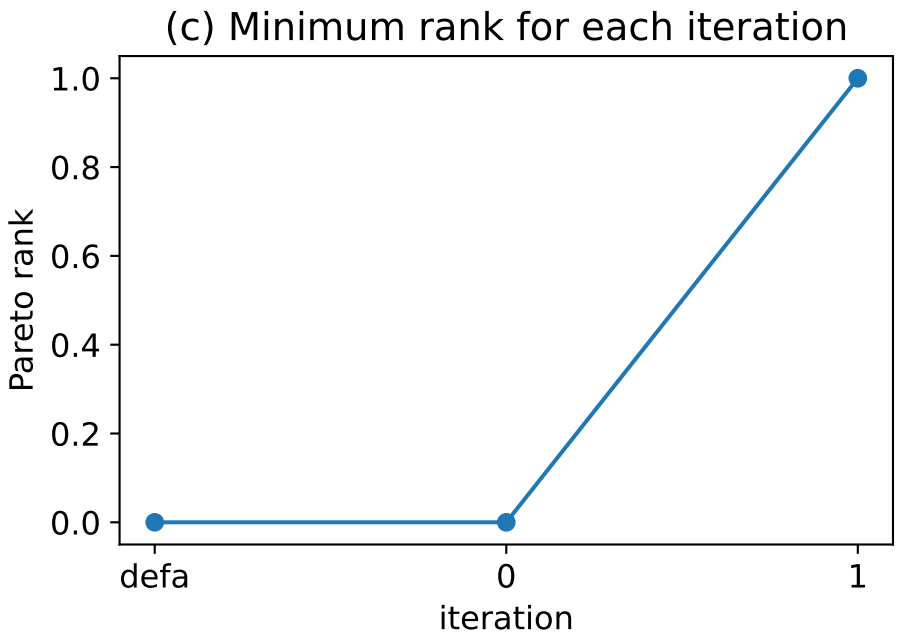




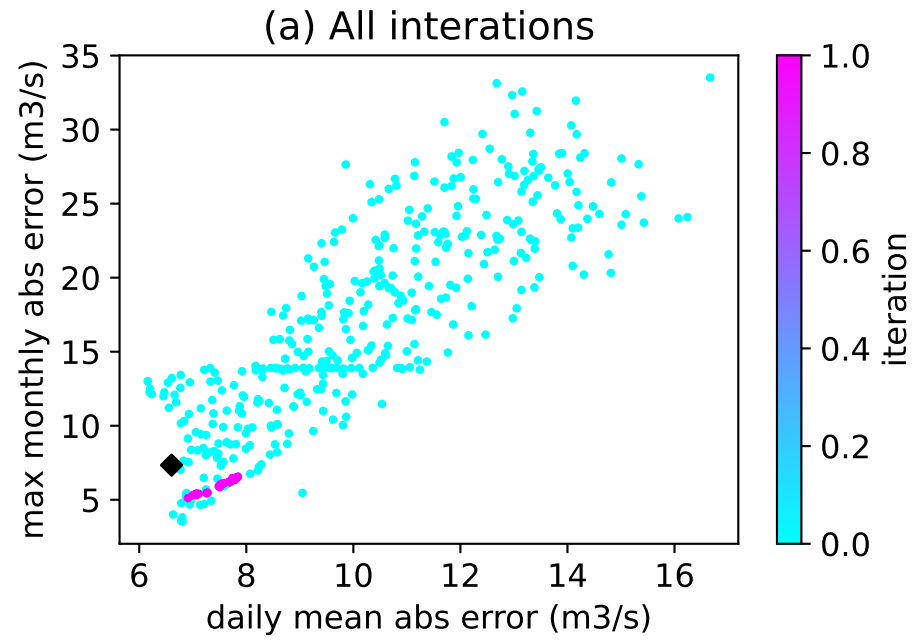
basinid: 356
hru_id: 6889200
lat_cen: 39.40967
lon_cen: -95.91898
AREA: 406.49 km2
elev_mean: 356.82 m

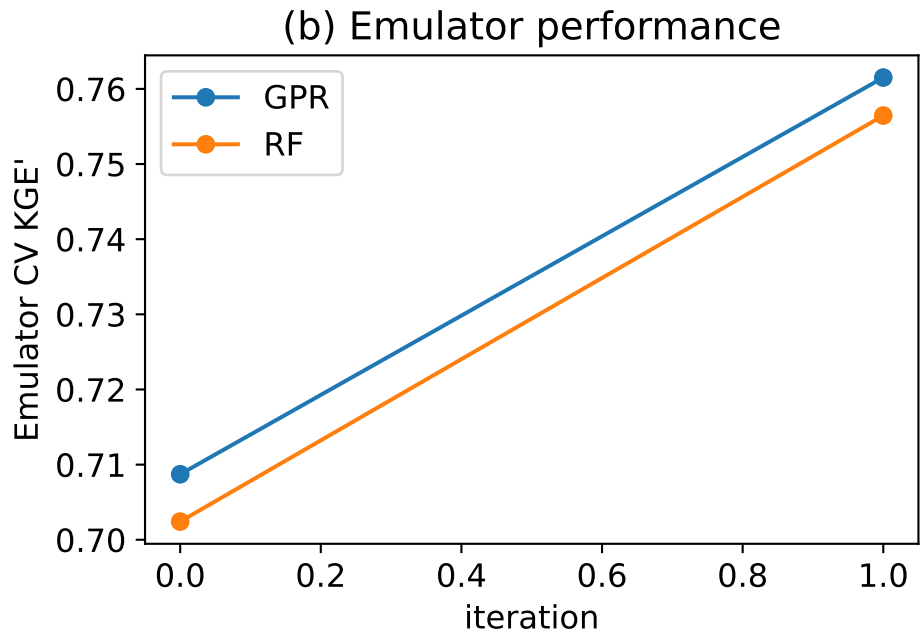


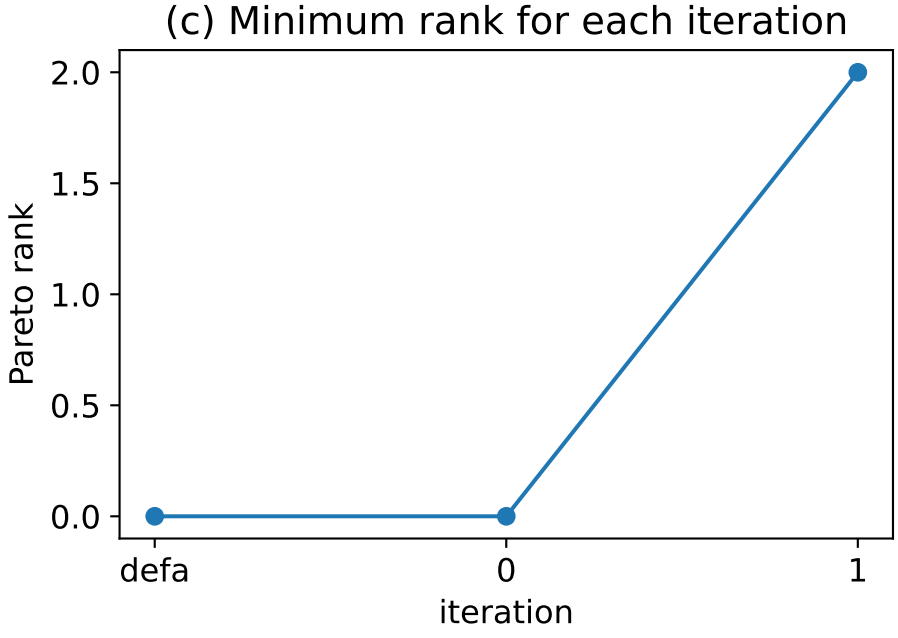




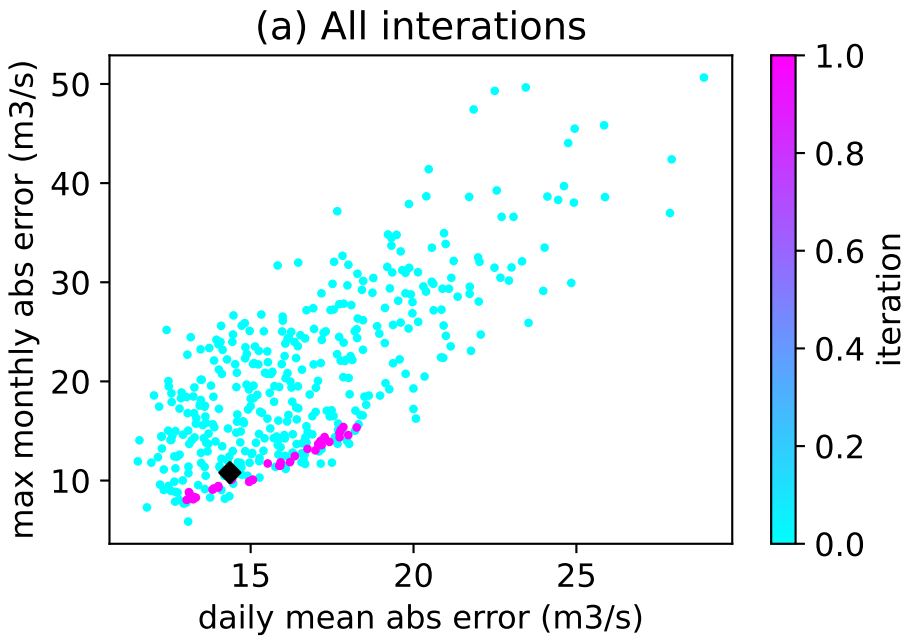
basinid: 357
hru_id: 6892000
lat_cen: 39.34979
lon_cen: -95.18342
AREA: 1091.62 km2
elev_mean: 317.56 m

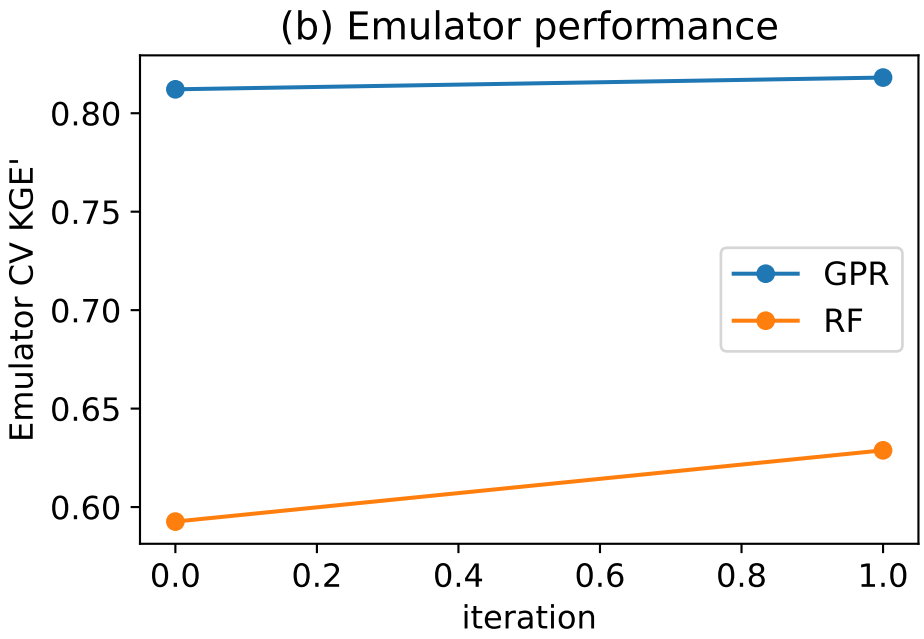


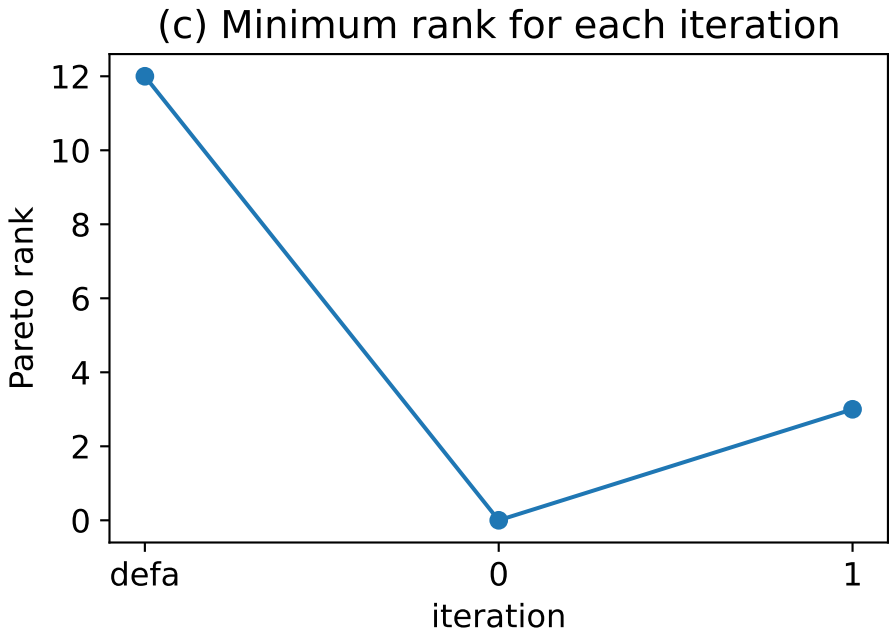




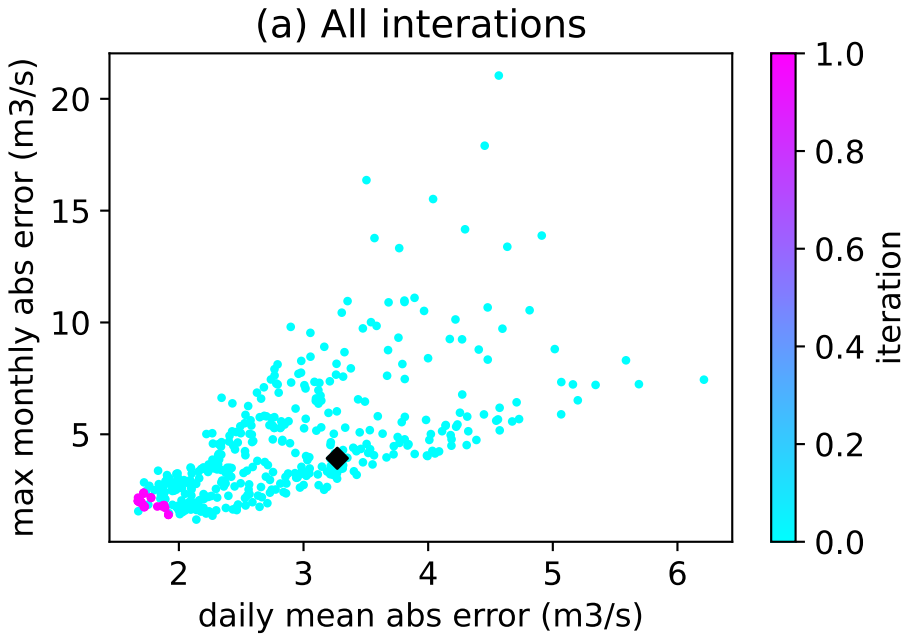
basinid: 358
hru_id: 6903400
lat_cen: 40.91745
lon_cen: -93.44752
AREA: 483.01 km2
elev_mean: 321.13 m

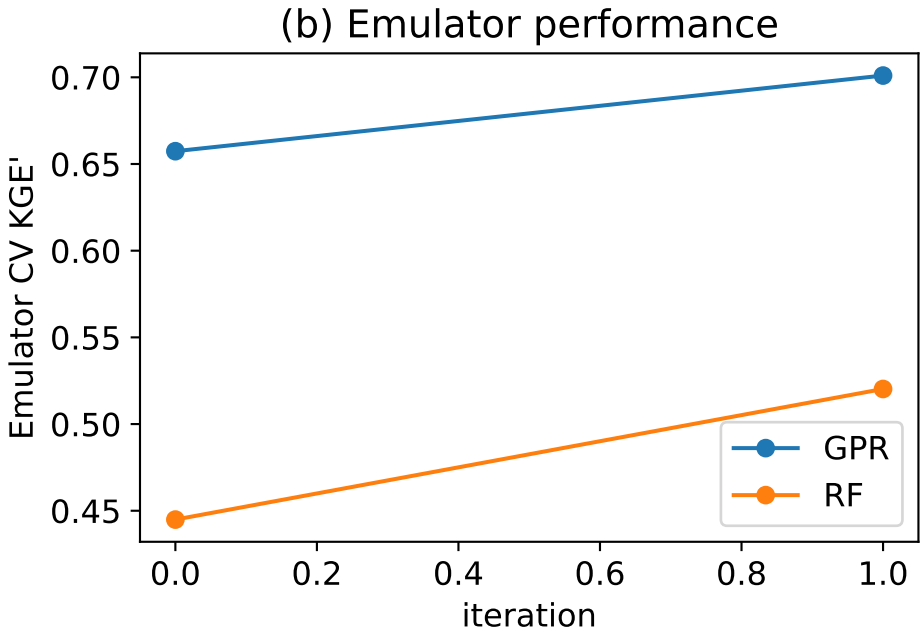


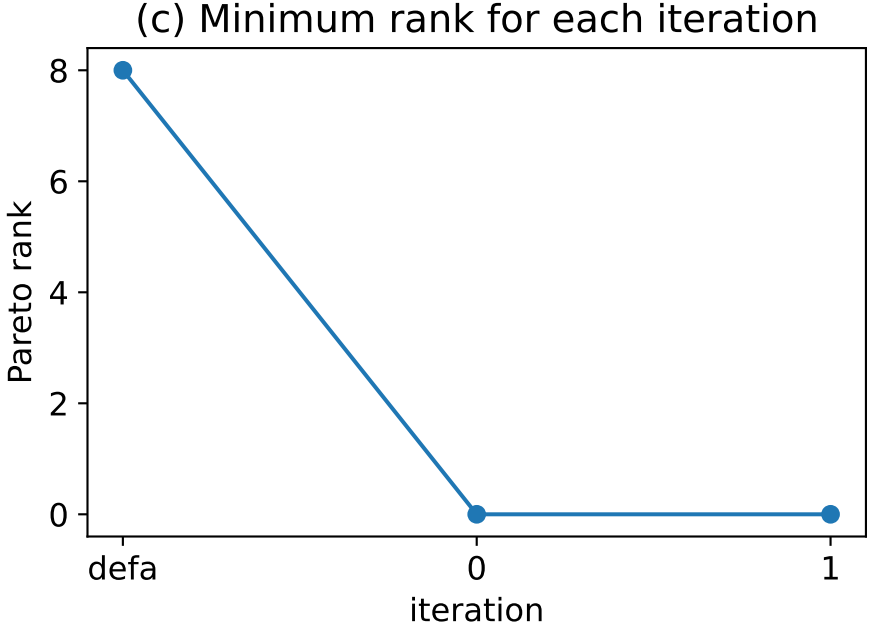




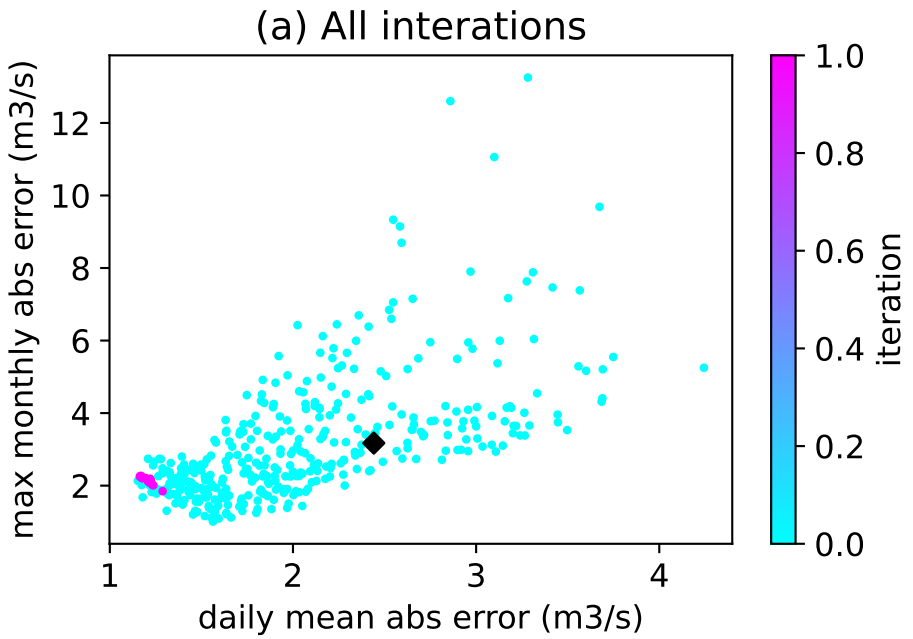
basinid: 359
hru_id: 6906800
lat_cen: 38.56512
lon_cen: -93.13386
AREA: 1411.99 km2
elev_mean: 277.72 m

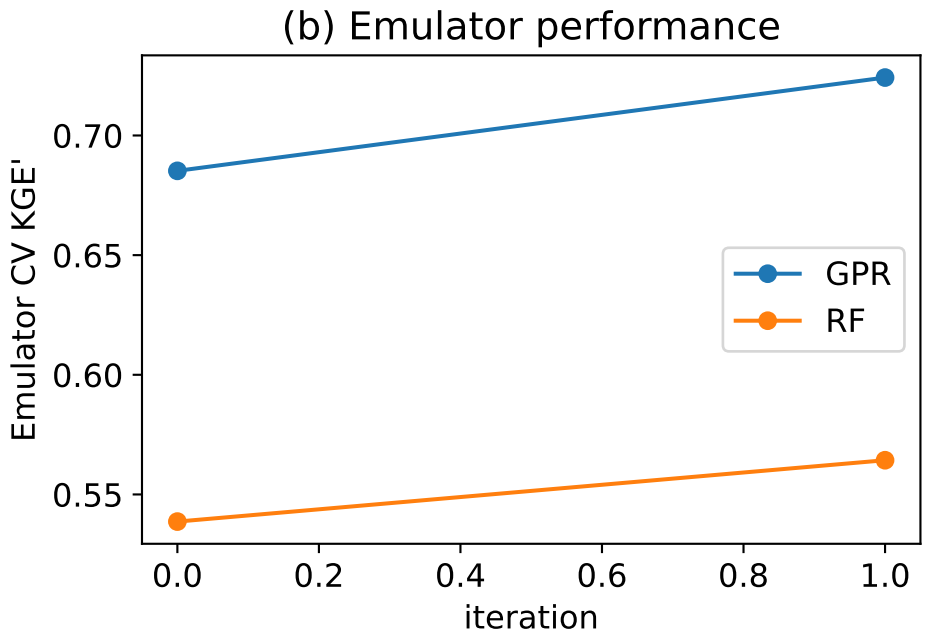


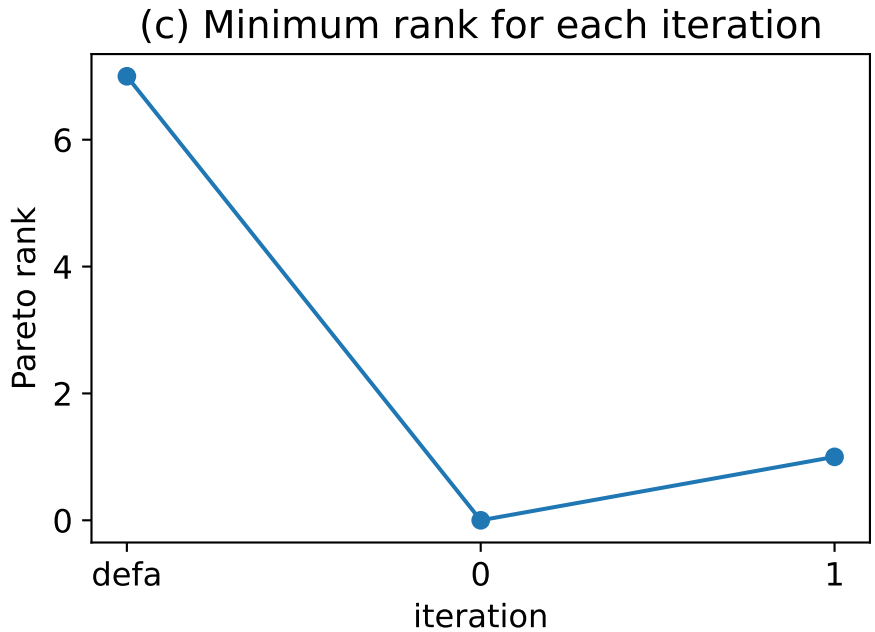




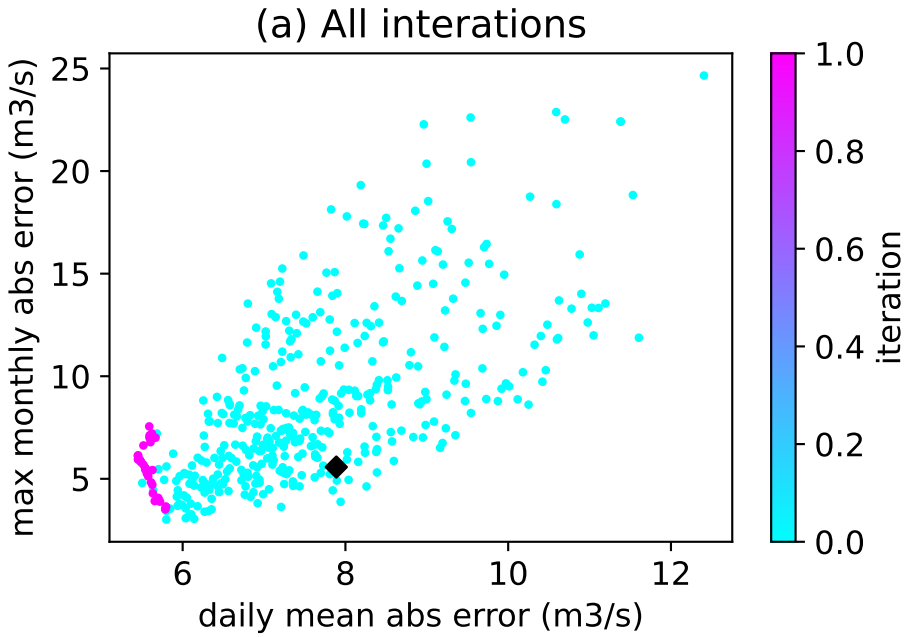
basinid: 360
hru_id: 6910800
lat_cen: 38.69901
lon_cen: -96.08729
AREA: 444.59 km2
elev_mean: 390.90 m

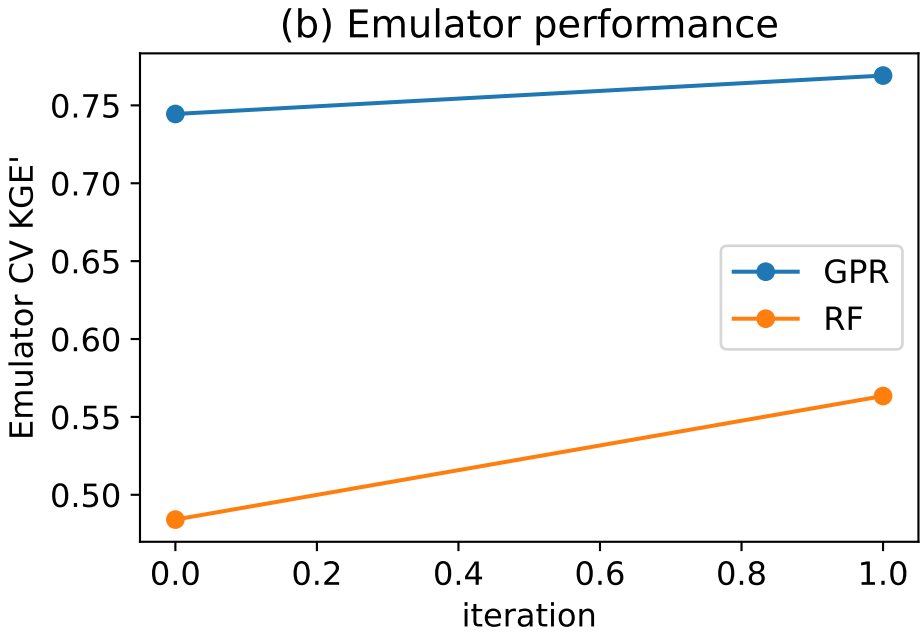


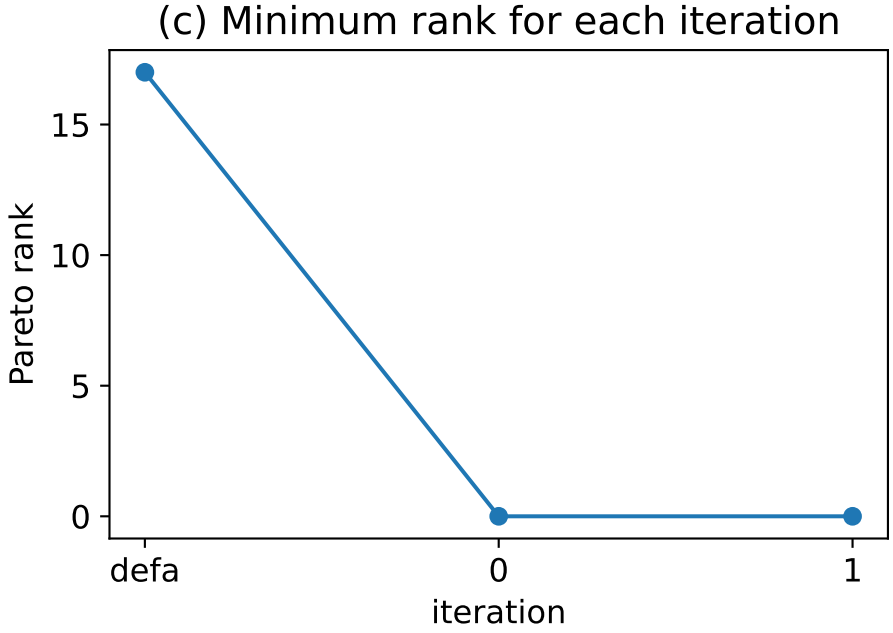




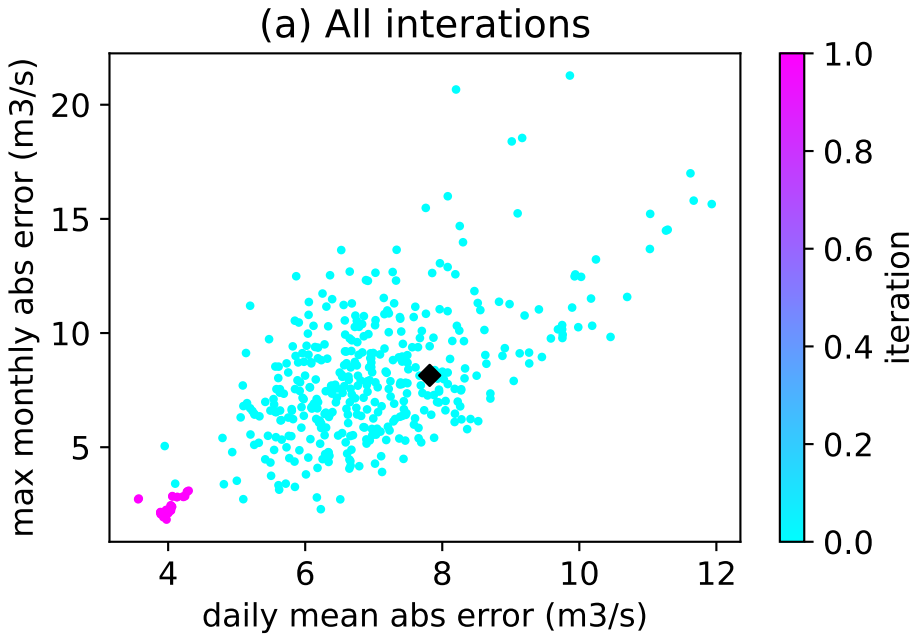
basinid: 361
hru_id: 6911900
lat_cen: 38.78887
lon_cen: -95.97568
AREA: 291.33 km2
elev_mean: 372.16 m

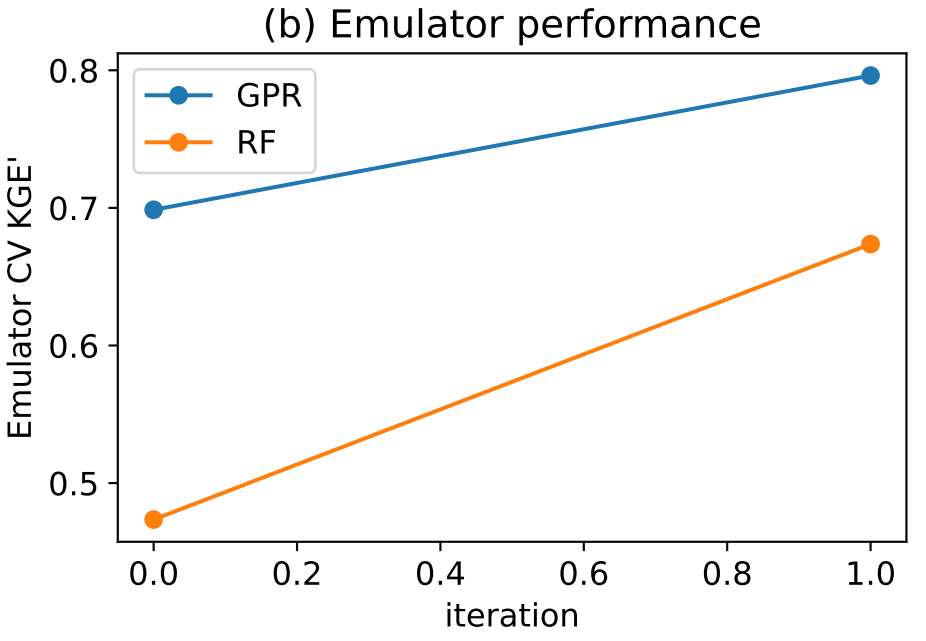


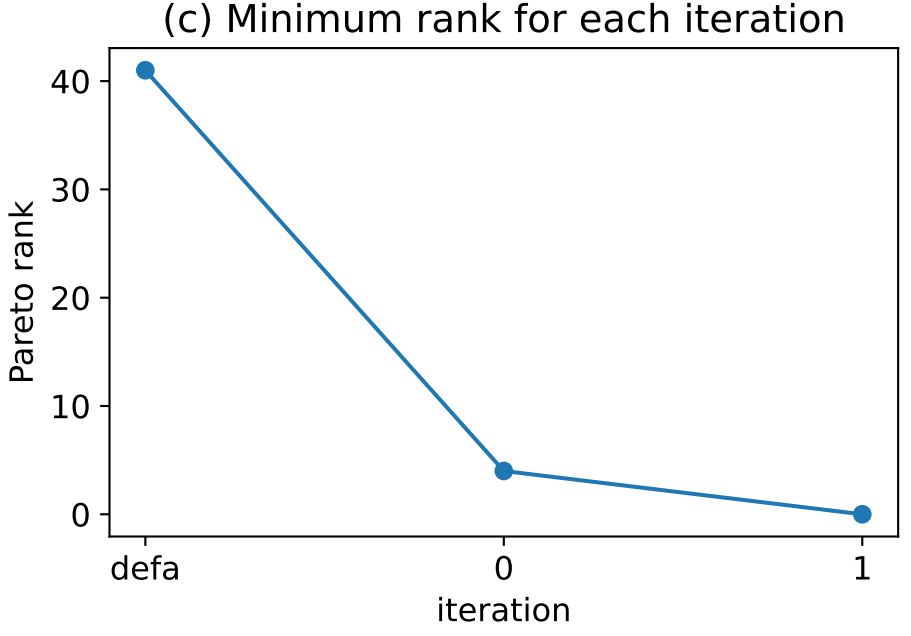




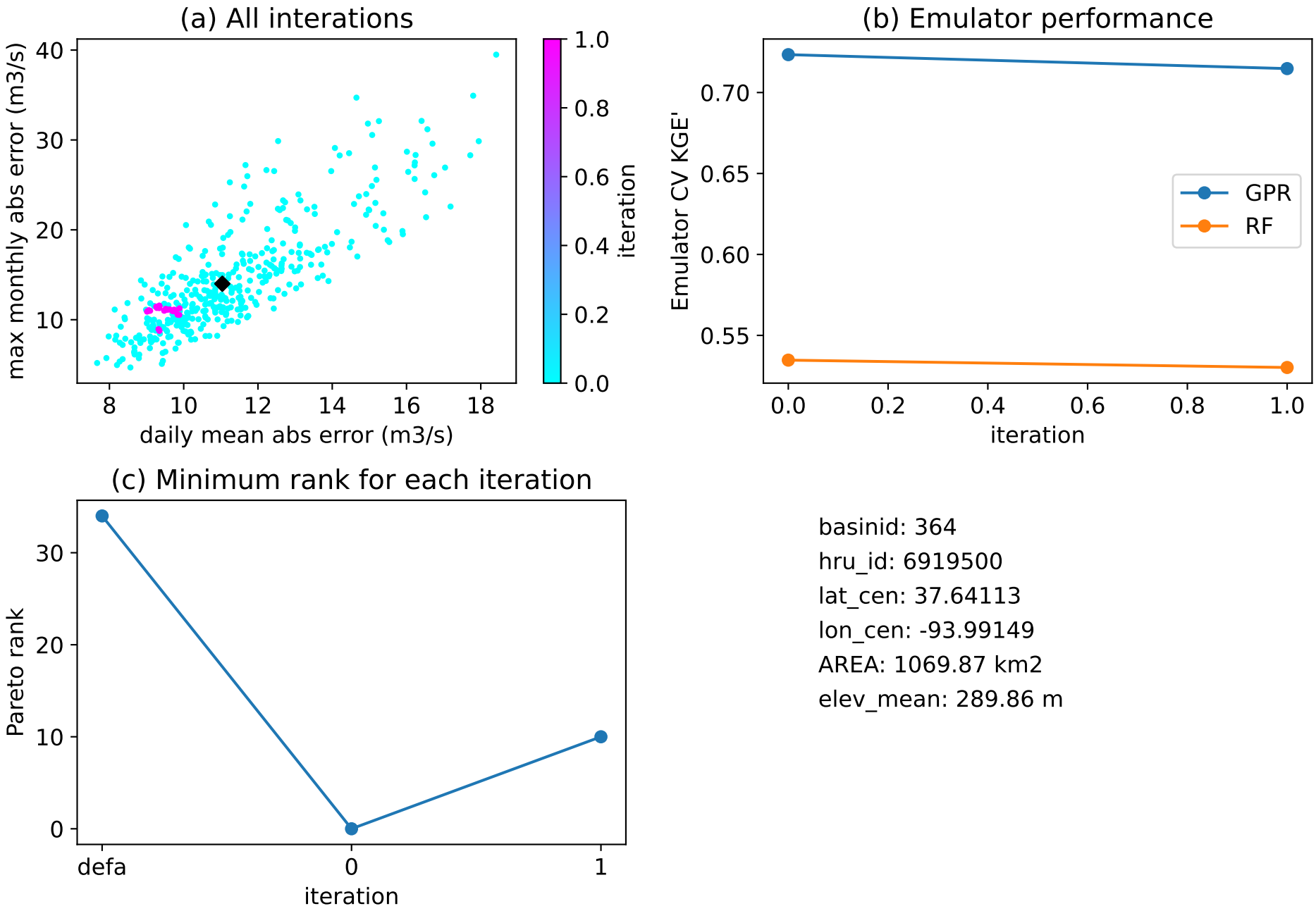
basinid: 362
hru_id: 6917000
lat_cen: 38.01957
lon_cen: -94.97615
AREA: 767.52 km2
elev_mean: 304.43 m

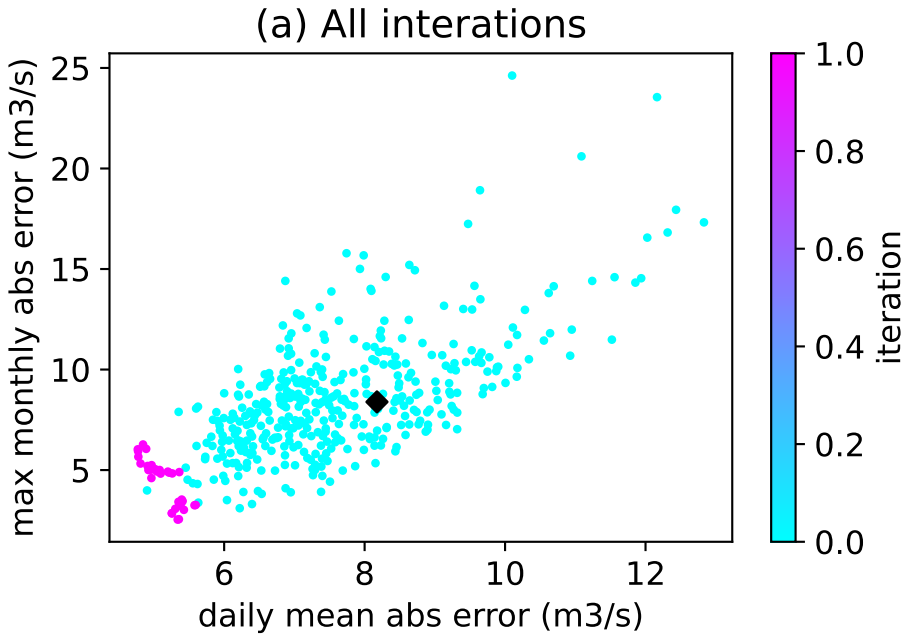


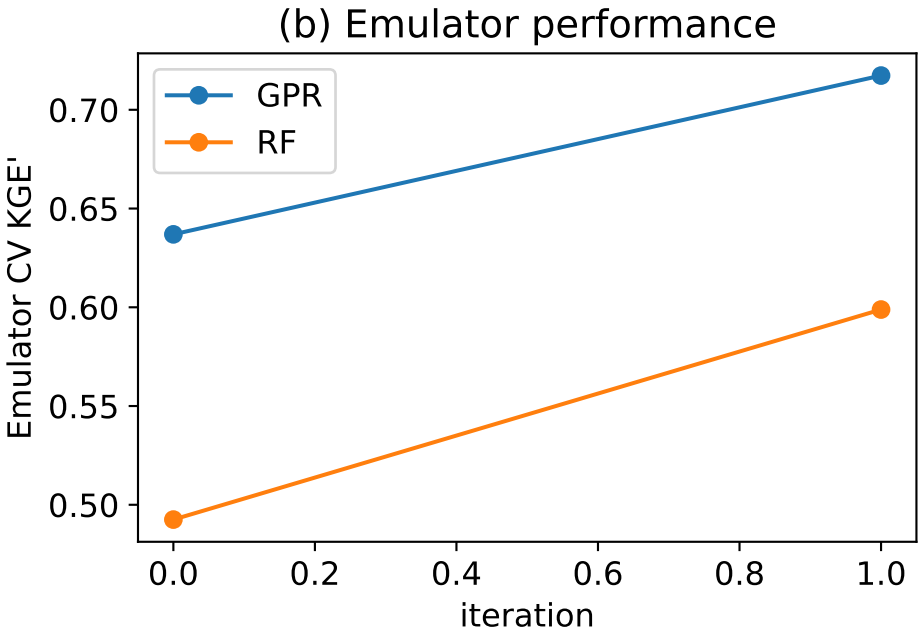


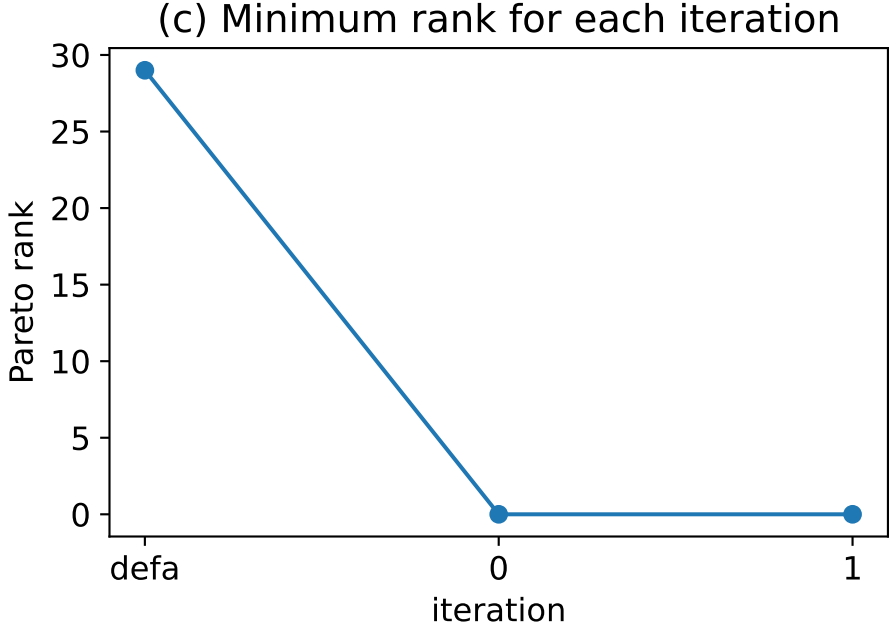


basinid: 363
hru_id: 6918460
lat_cen: 37.2418
lon_cen: -93.73992
AREA: 650.77 km2
elev_mean: 349.55 m

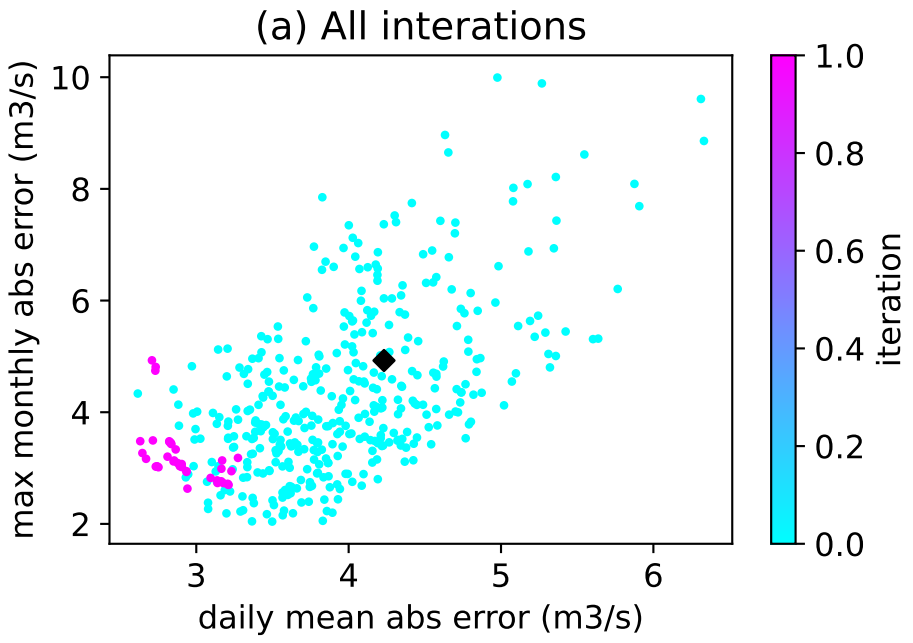

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 364
hru_id: 6919500
lat_cen: 37.64113
lon_cen: -93.99149
AREA: 1069.87 km2
elev_mean: 289.86 m

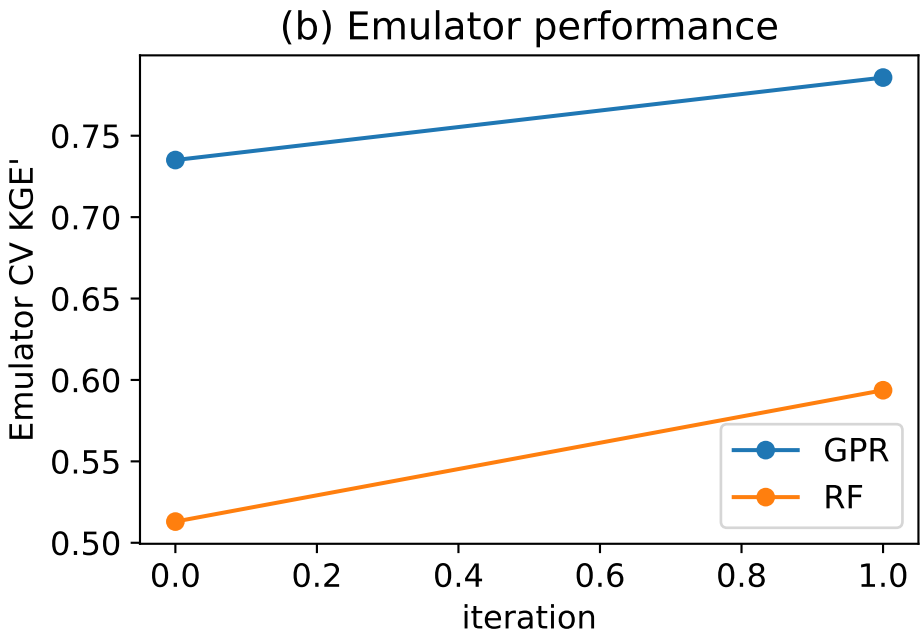


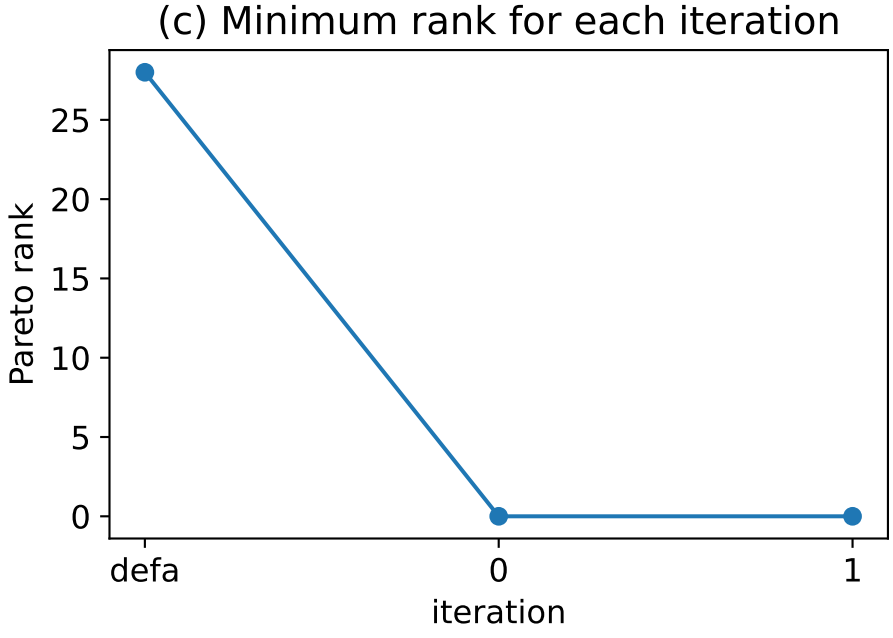




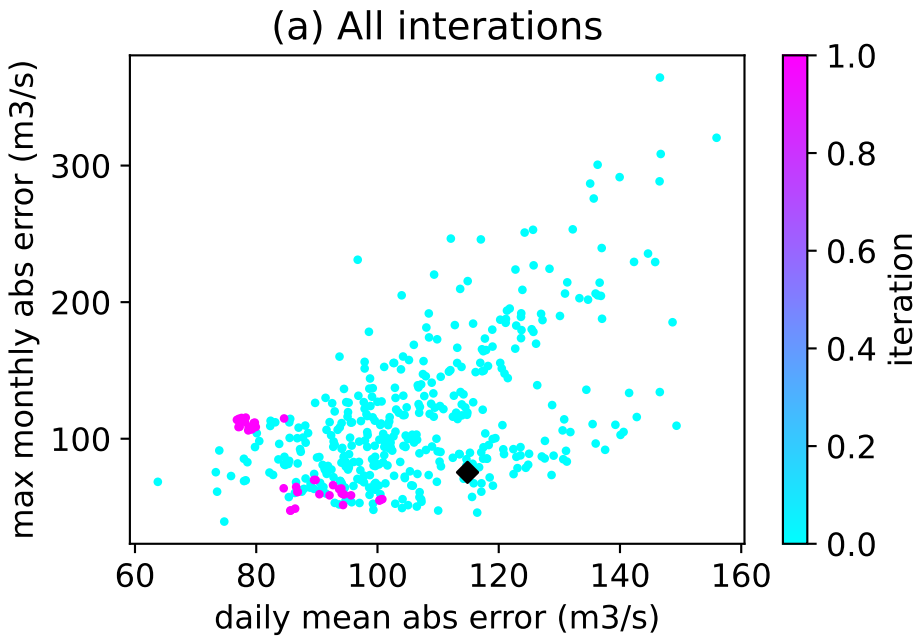
basinid: 365
hru_id: 6921070
lat_cen: 37.46792
lon_cen: -93.18724
AREA: 716.89 km2
elev_mean: 362.30 m

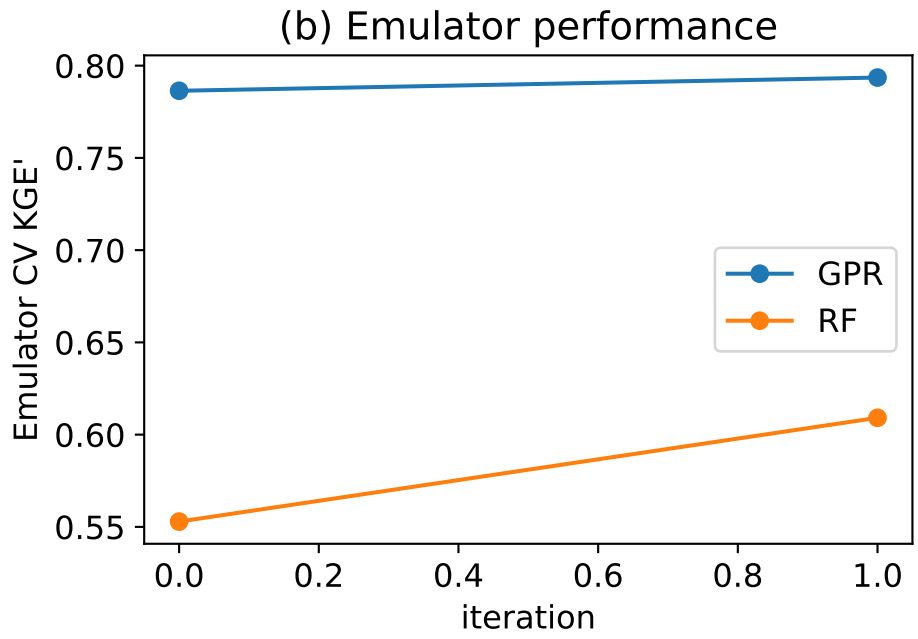


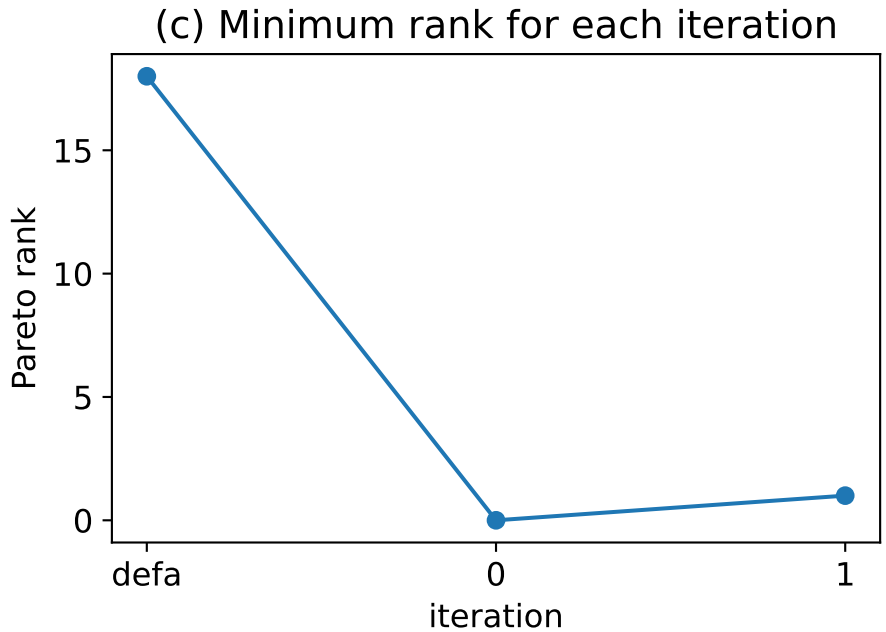




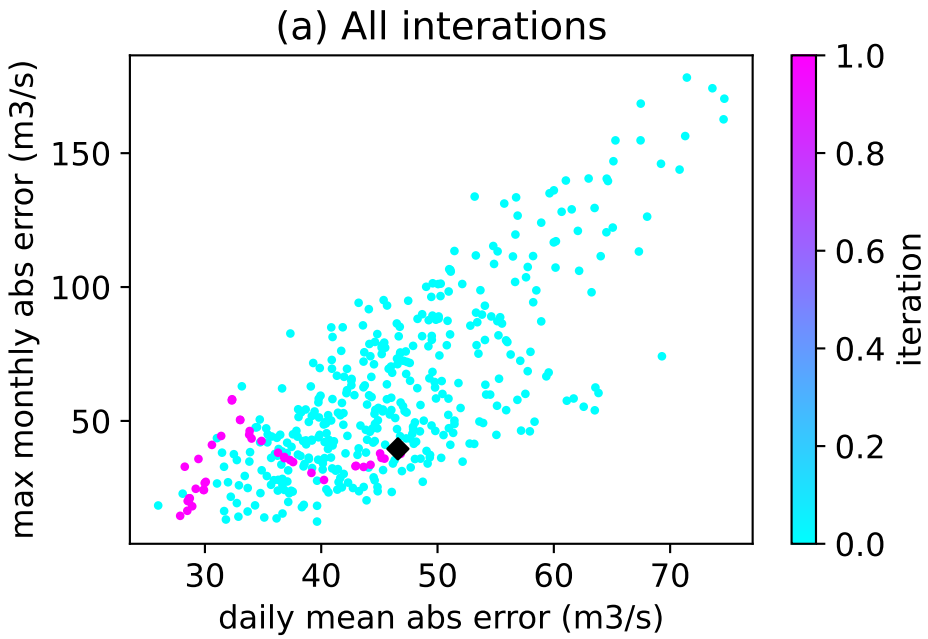
basinid: 366
hru_id: 6921200
lat_cen: 37.68839
lon_cen: -93.18296
AREA: 328.76 km2
elev_mean: 324.20 m

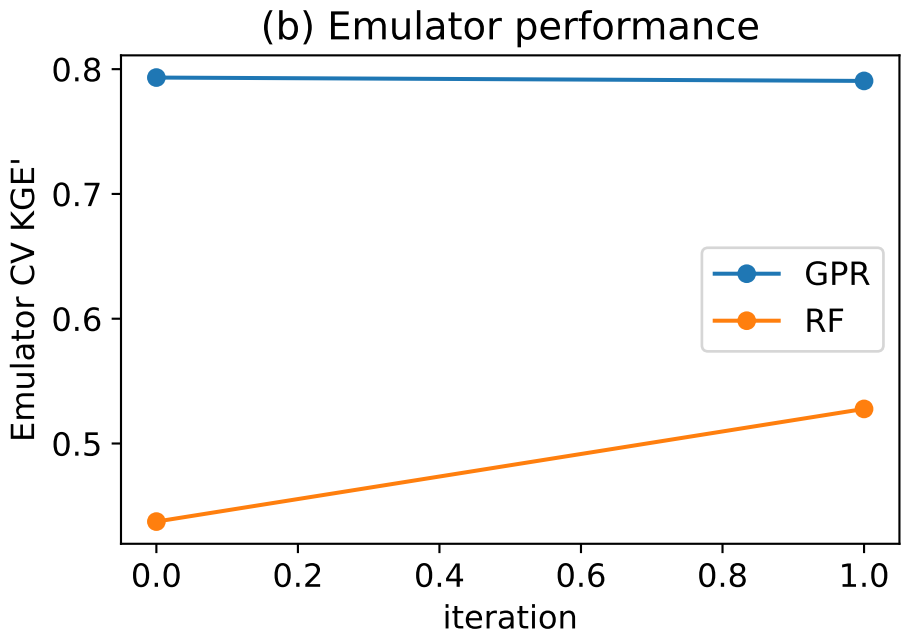


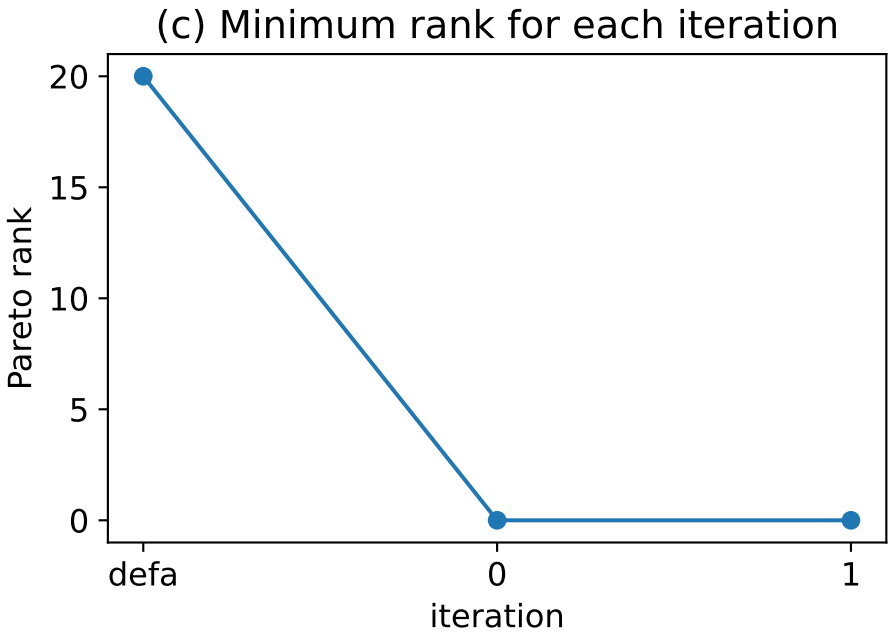




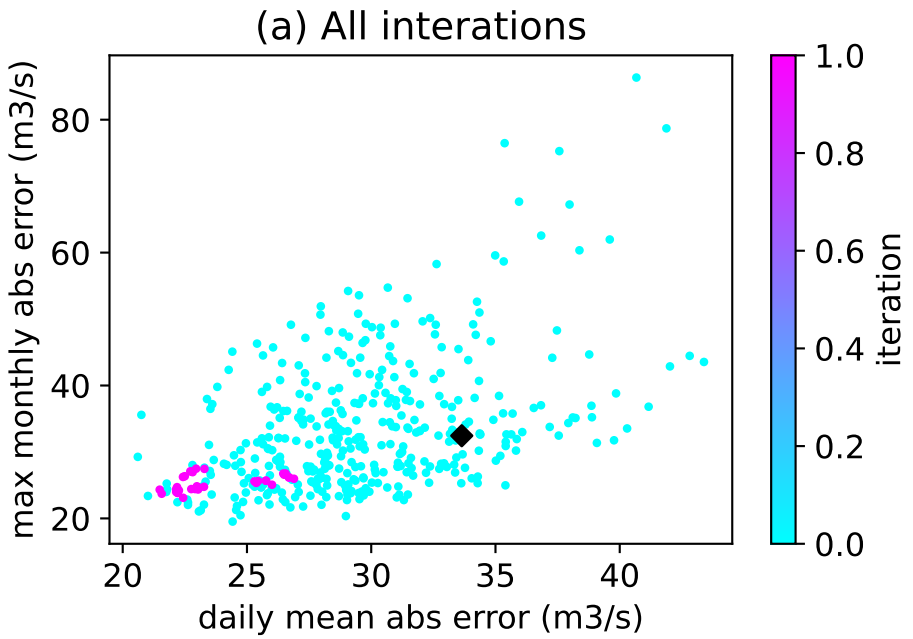
basinid: 367
hru_id: 6934000
lat_cen: 37.57759
lon_cen: -92.2172
AREA: 8267.68 km2
elev_mean: 350.25 m

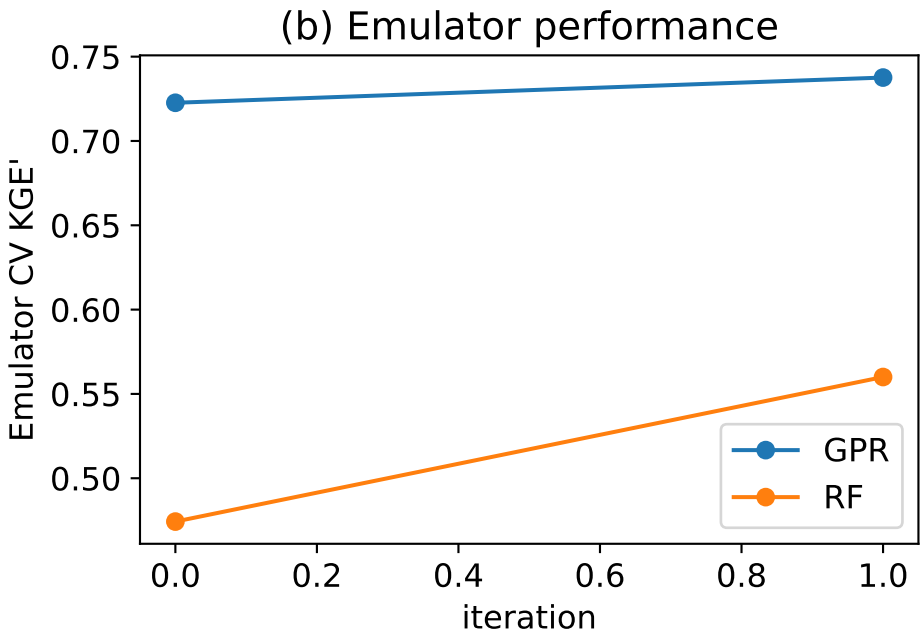


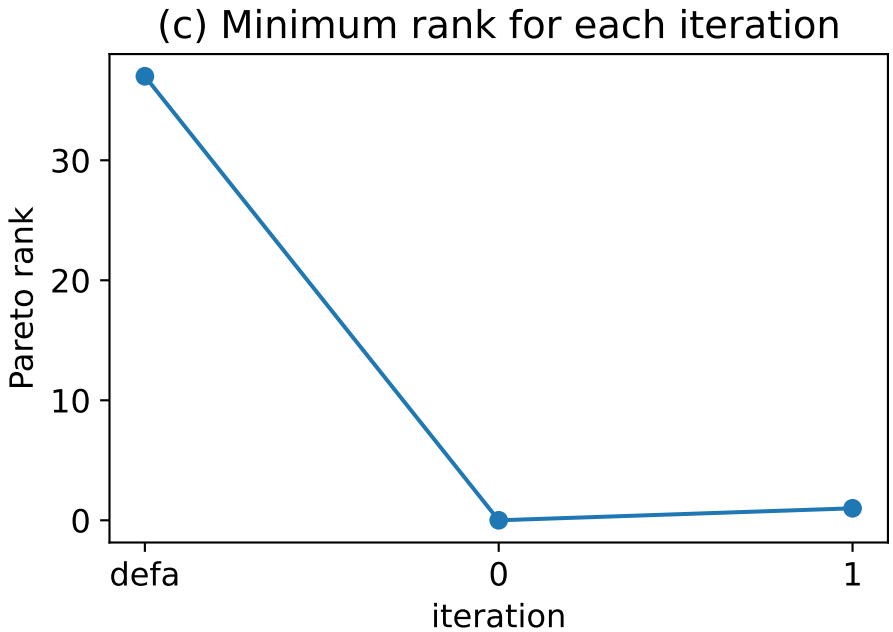




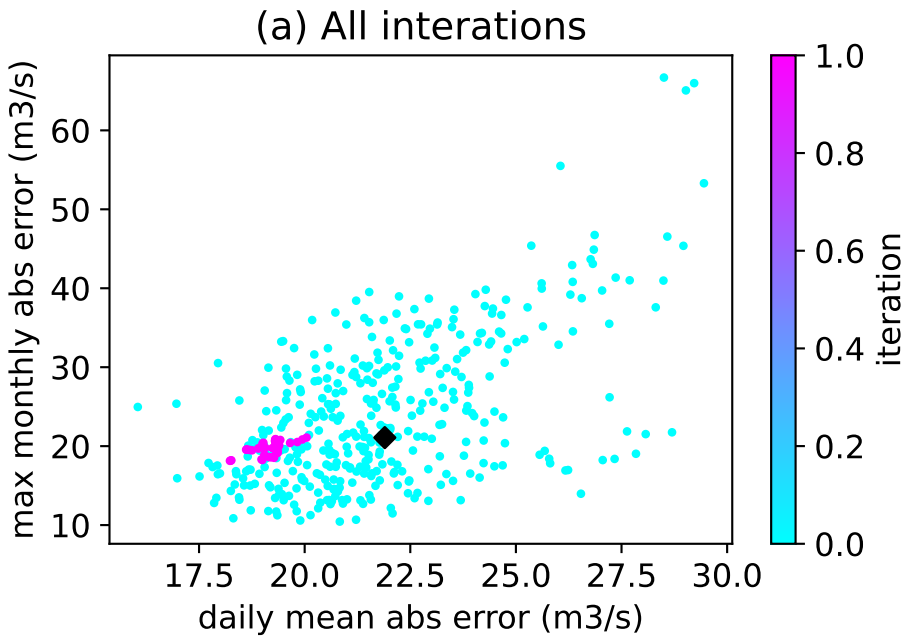
basinid: 368
hru_id: 7014500
lat_cen: 37.81983
lon_cen: -91.3531
AREA: 3851.26 km2
elev_mean: 321.02 m

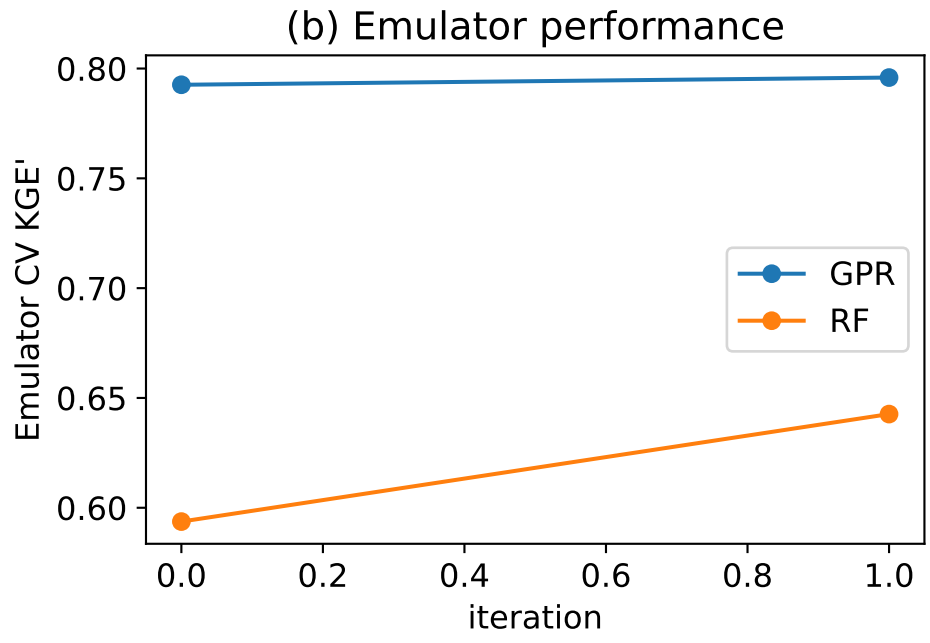


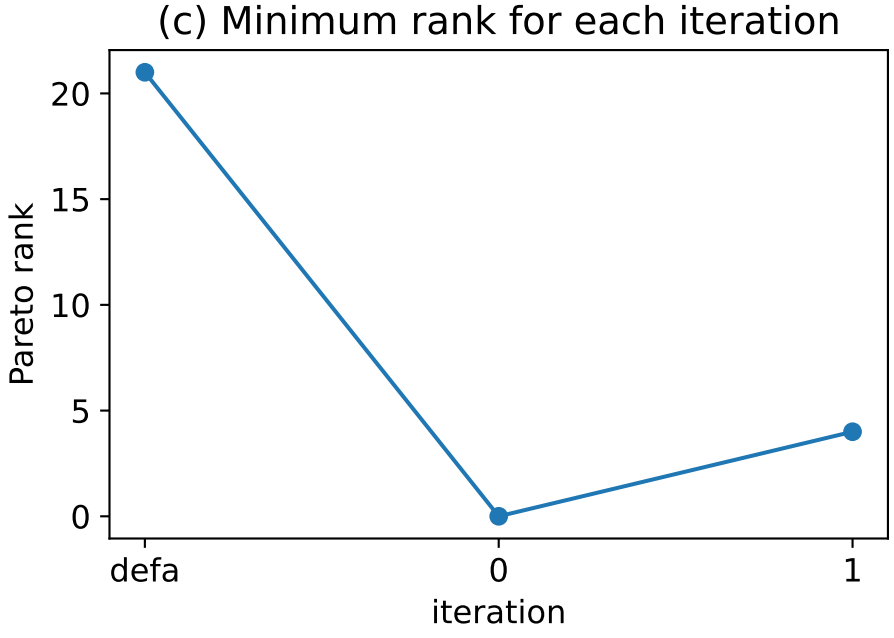




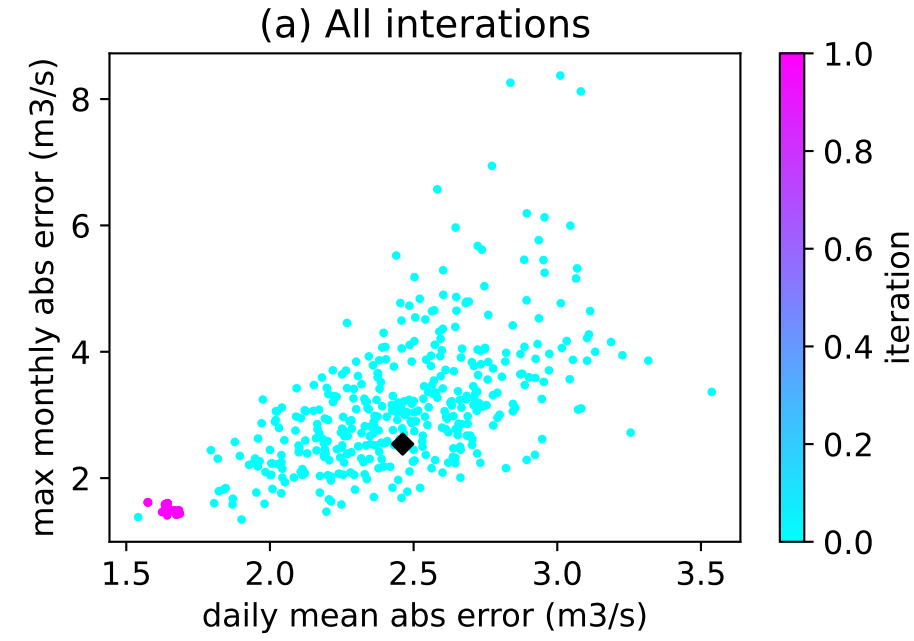
basinid: 369
hru_id: 7056000
lat_cen: 35.93055
lon_cen: -93.11556
AREA: 2147.77 km2
elev_mean: 452.58 m

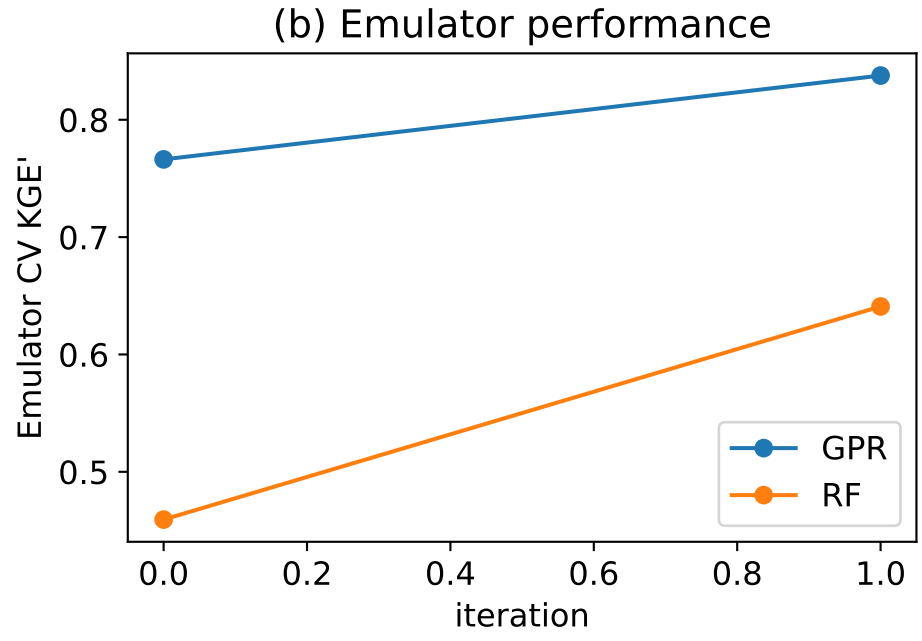


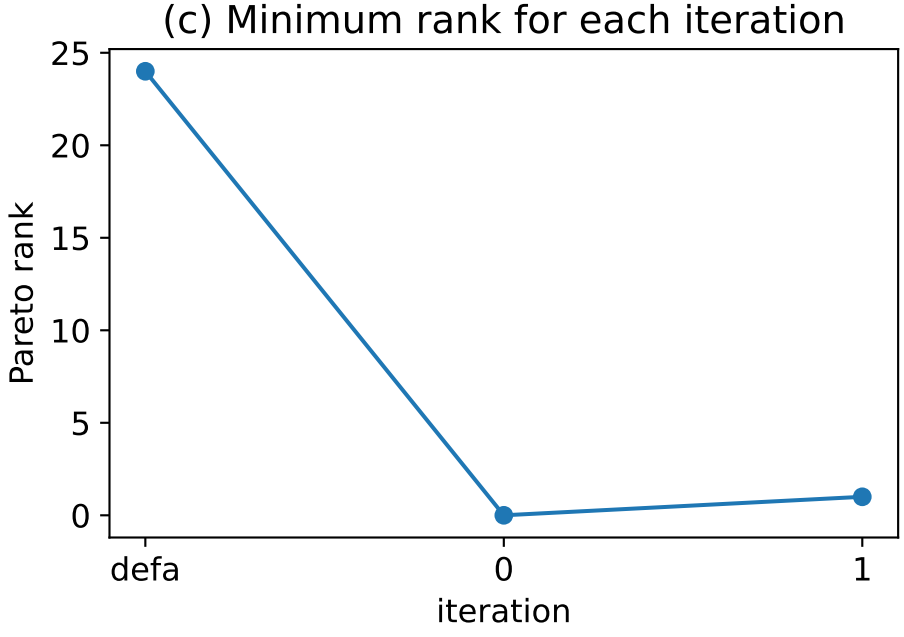




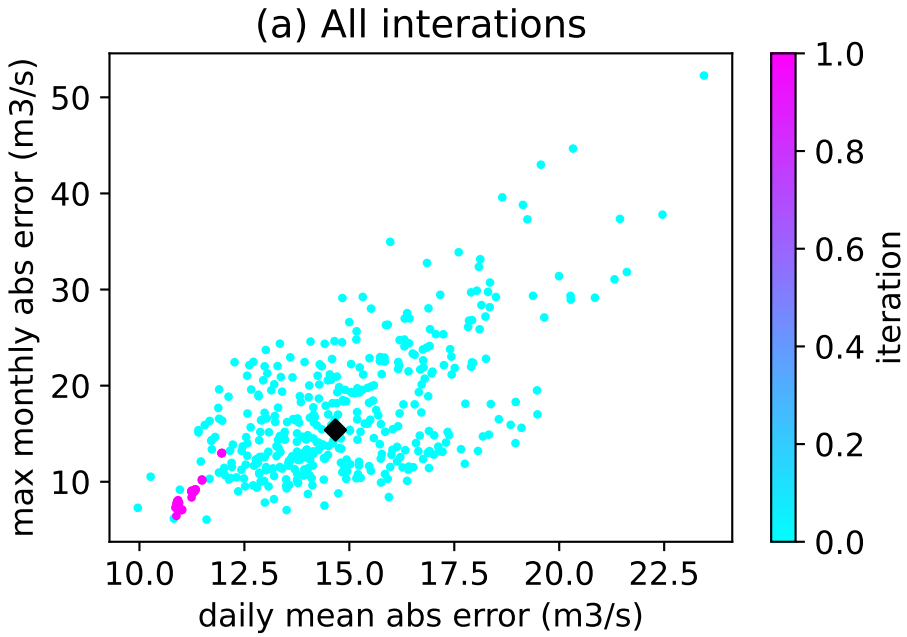
basinid: 370
hru_id: 7057500
lat_cen: 36.85725
lon_cen: -92.10894
AREA: 1456.49 km2
elev_mean: 324.52 m

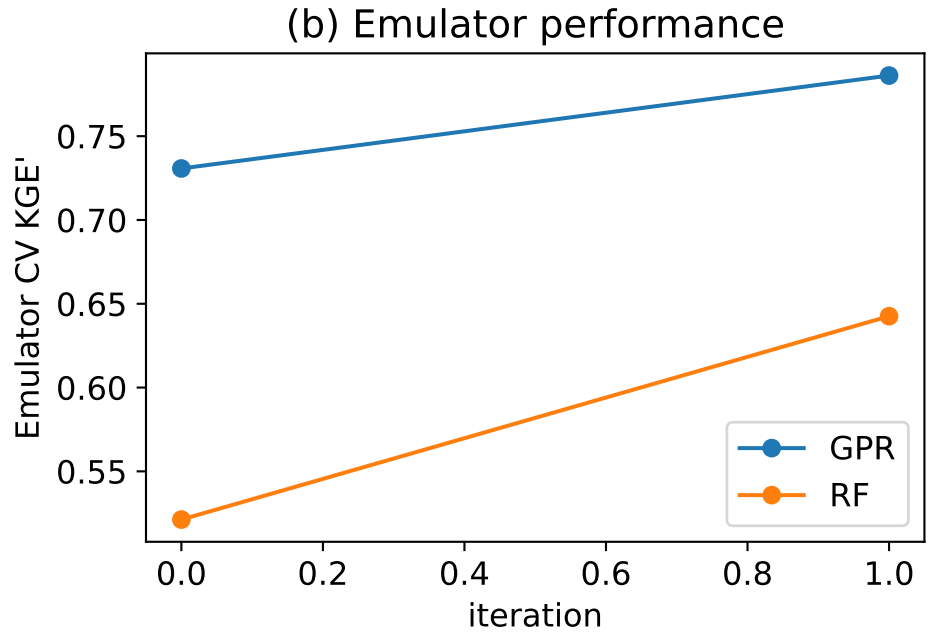


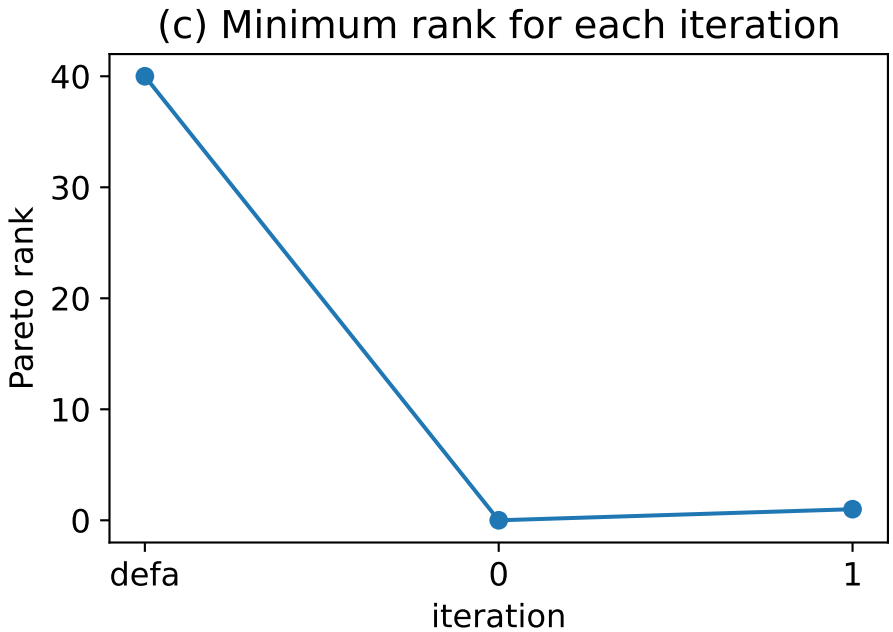




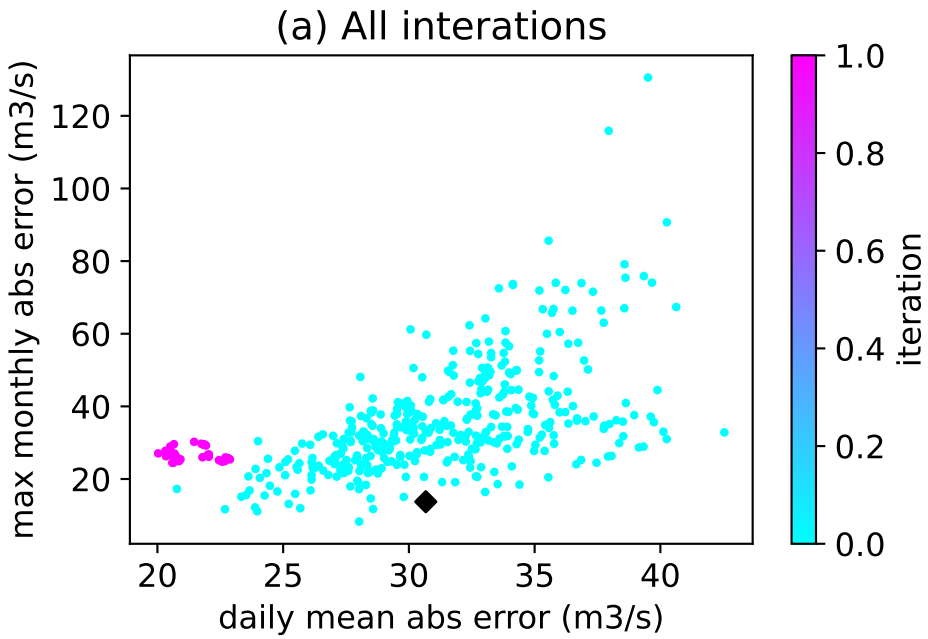
basinid: 371
hru_id: 7060710
lat_cen: 36.04117
lon_cen: -92.28132
AREA: 152.36 km2
elev_mean: 298.48 m

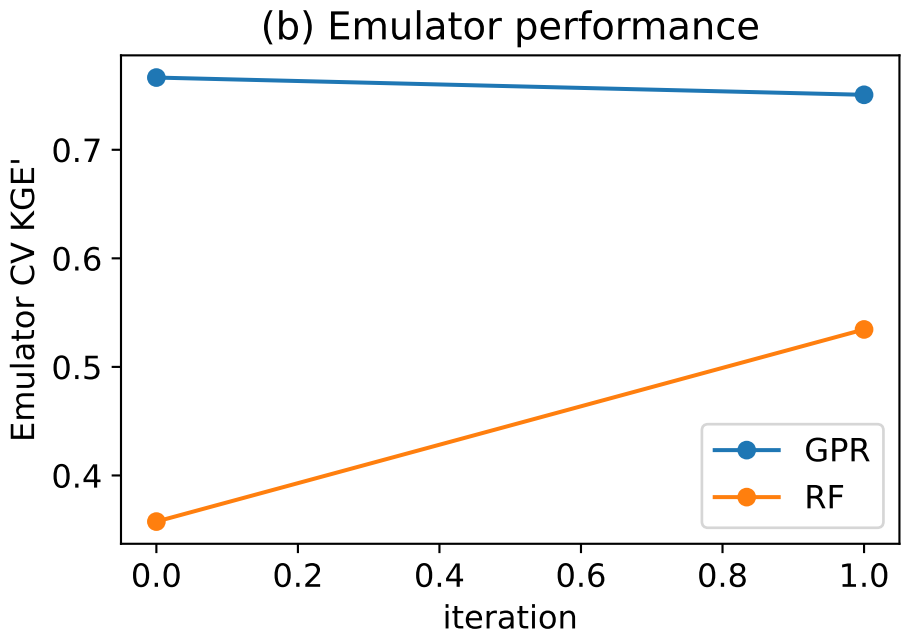


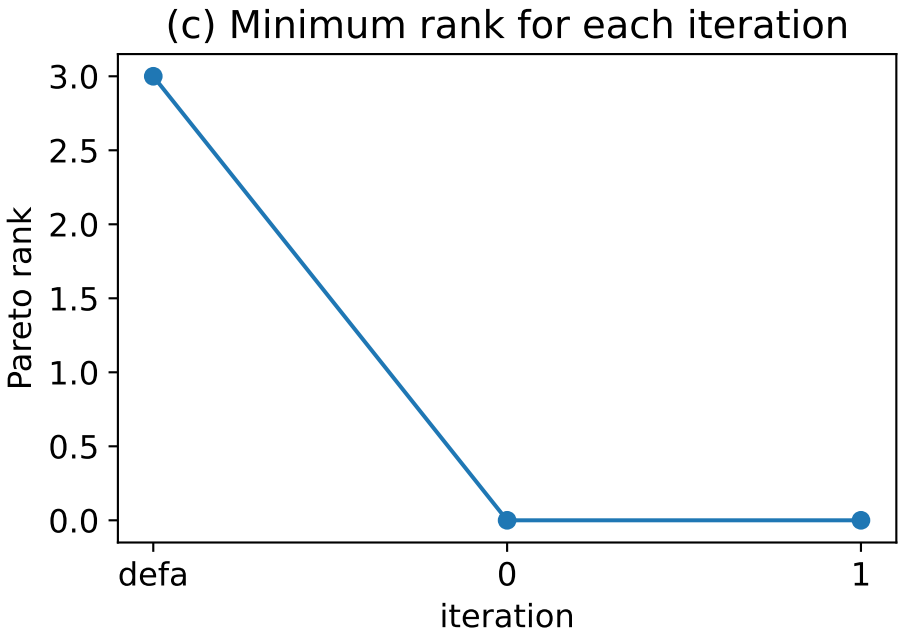




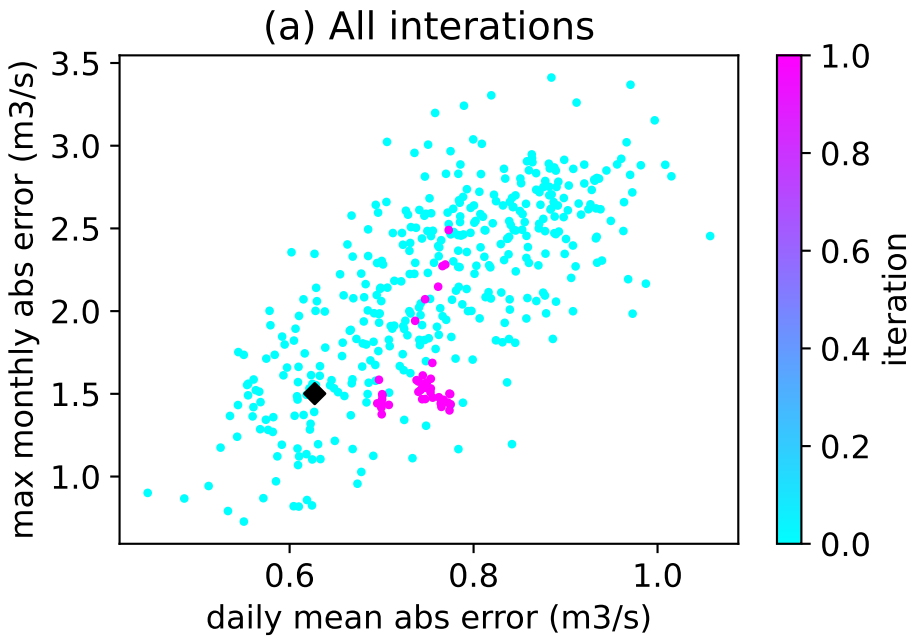
basinid: 372
hru_id: 7066000
lat_cen: 37.0933
lon_cen: -91.65536
AREA: 1050.68 km2
elev_mean: 339.46 m

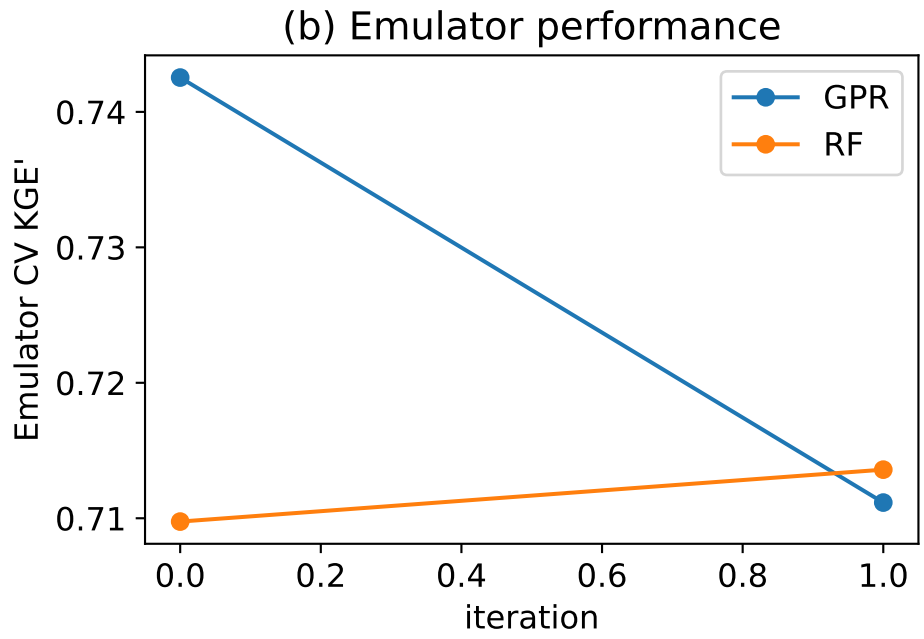


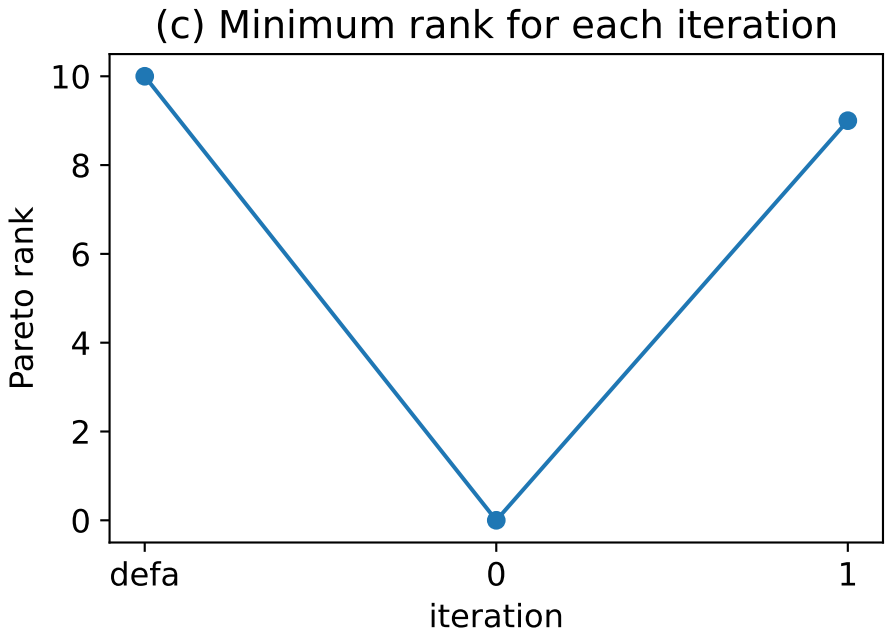




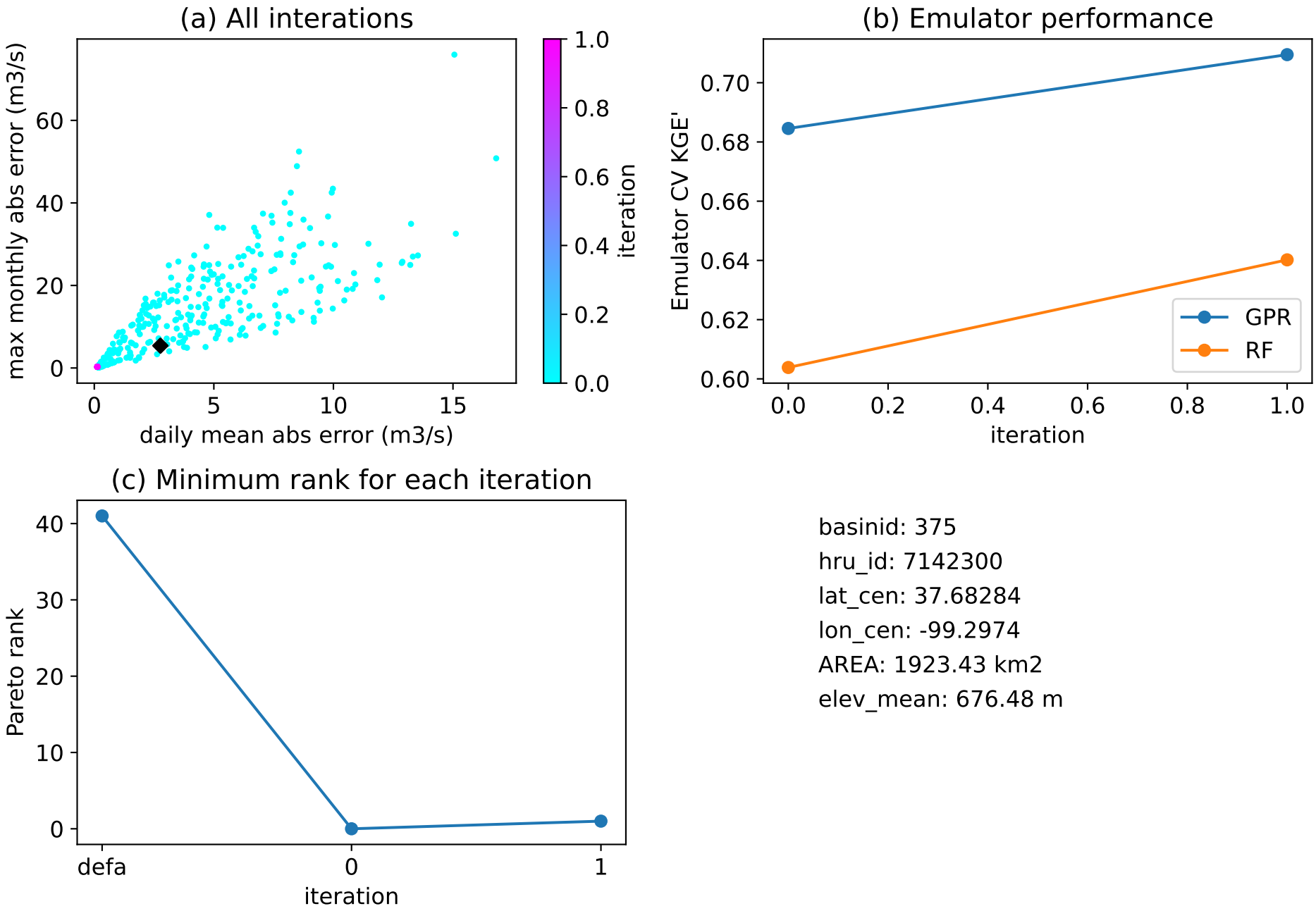
basinid: 373
hru_id: 7071500
lat_cen: 36.85366
lon_cen: -91.54155
AREA: 2030.34 km2
elev_mean: 289.78 m

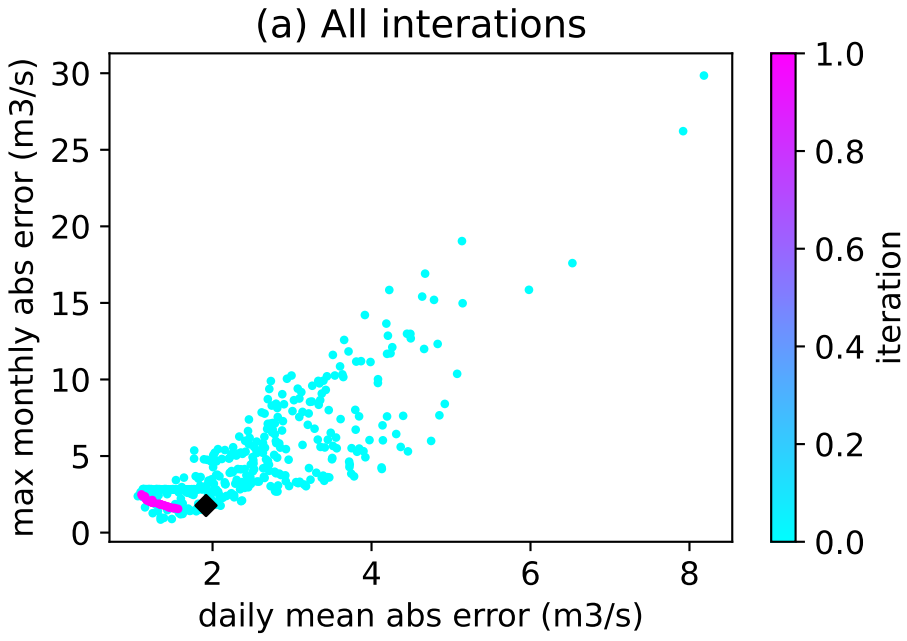


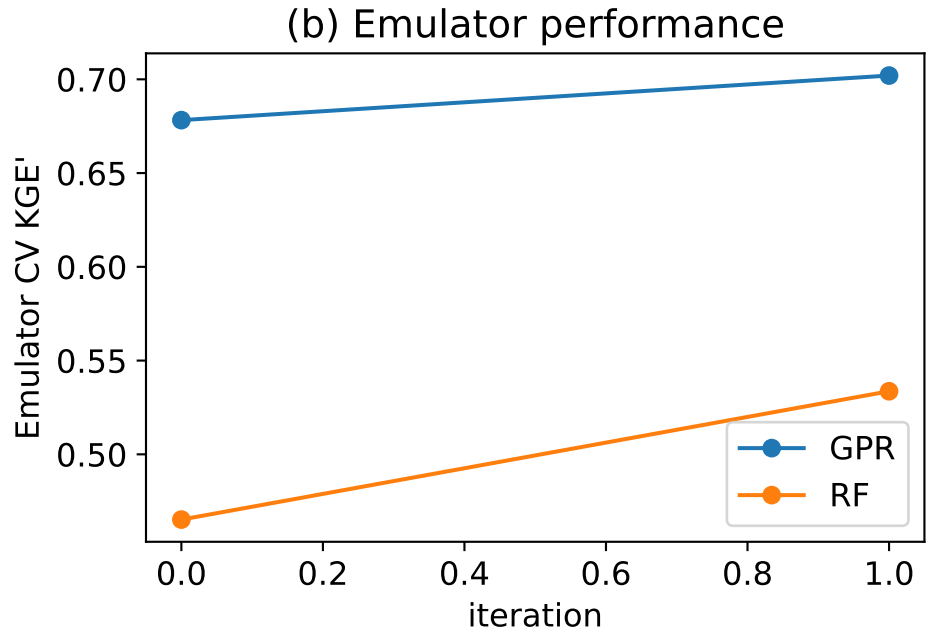


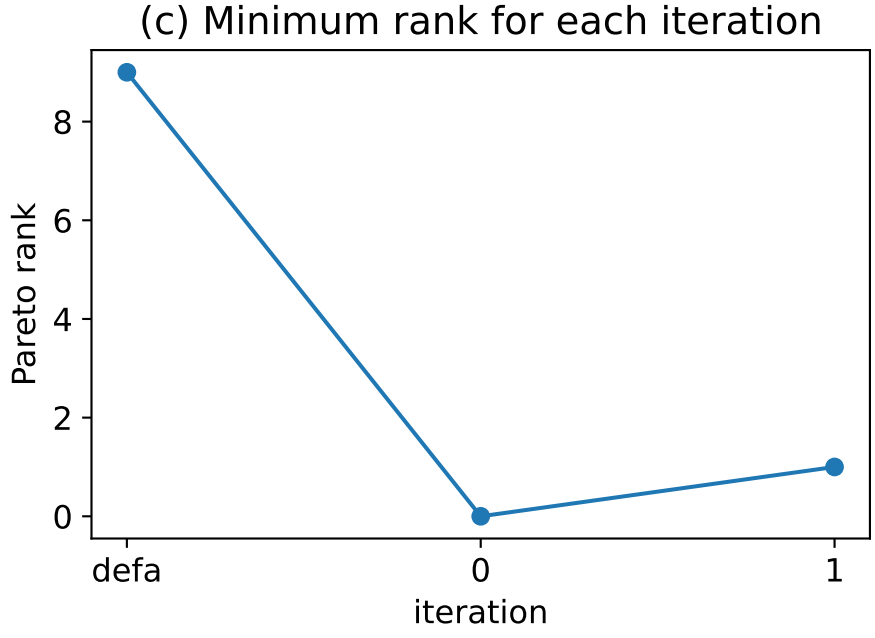


basinid: 374
hru_id: 7083000
lat_cen: 39.15028
lon_cen: -106.45968
AREA: 66.28 km2
elev_mean: 3562.88 m

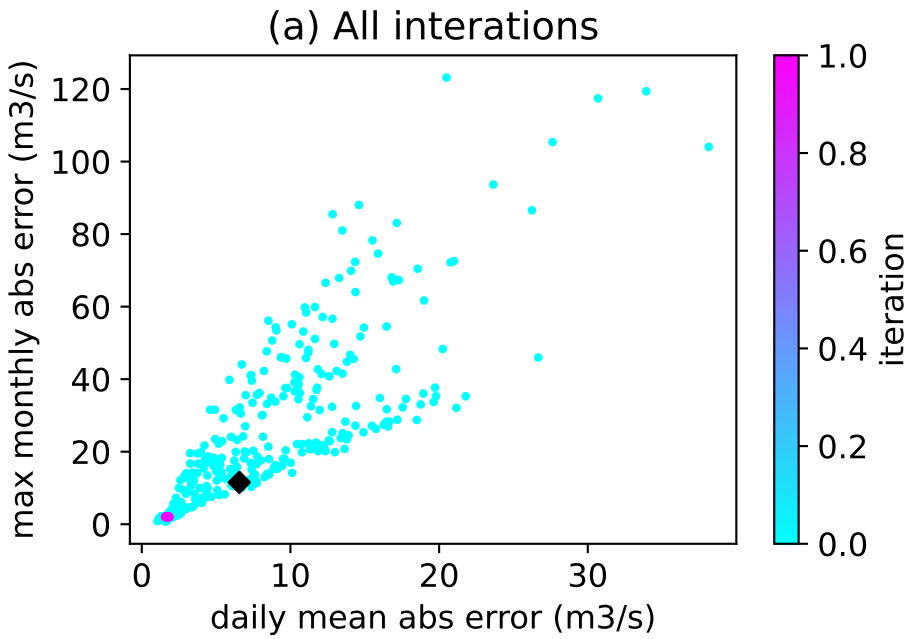

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 375
hru_id: 7142300
lat_cen: 37.68284
lon_cen: -99.2974
AREA: 1923.43 km2
elev_mean: 676.48 m

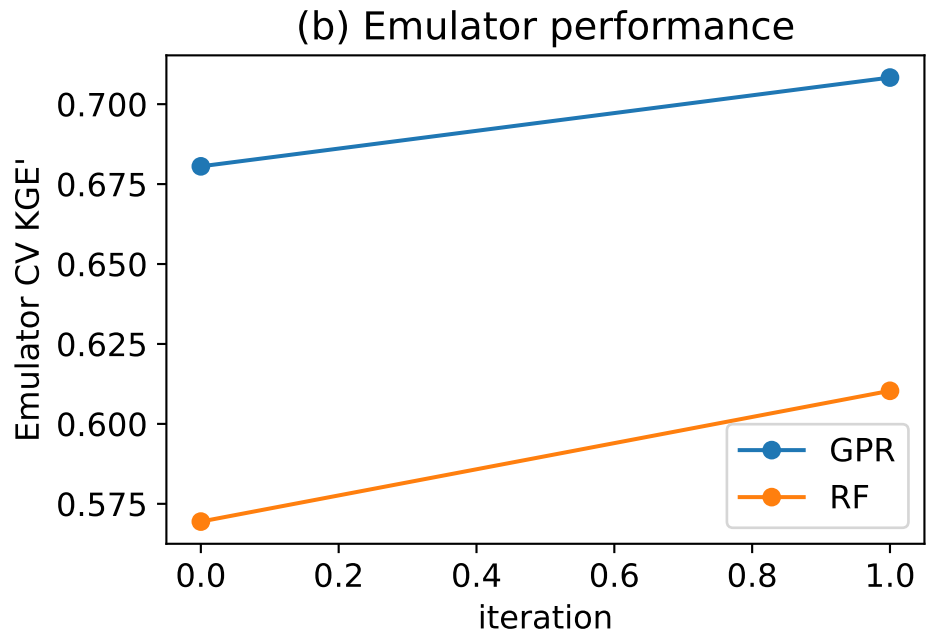


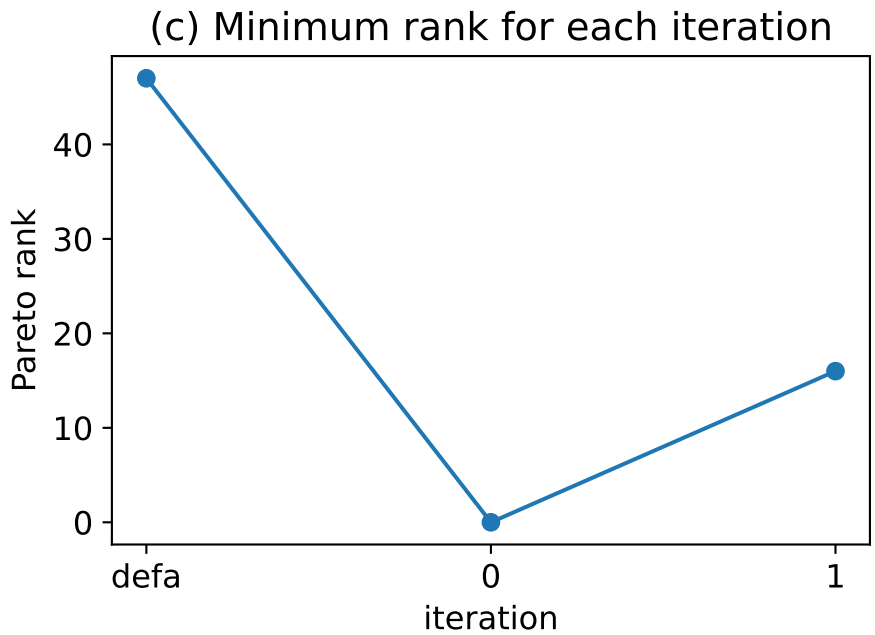




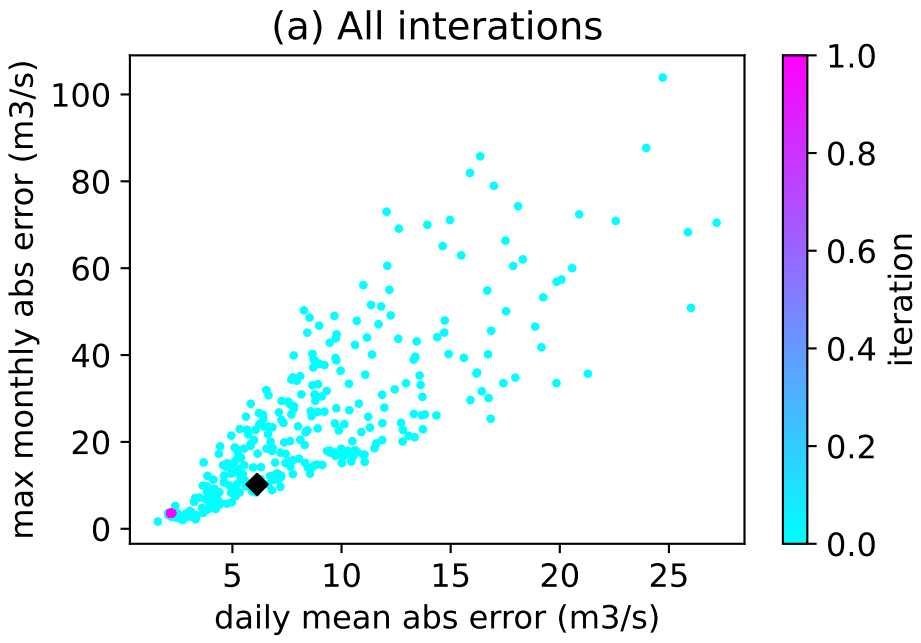
basinid: 376
hru_id: 7145700
lat_cen: 37.37125
lon_cen: -97.5656
AREA: 400.65 km2
elev_mean: 402.00 m

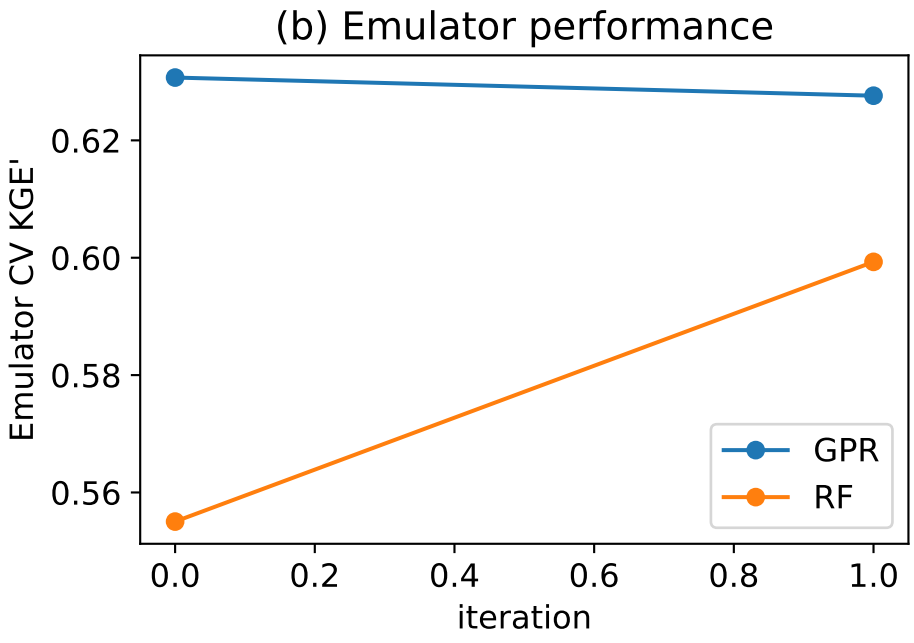


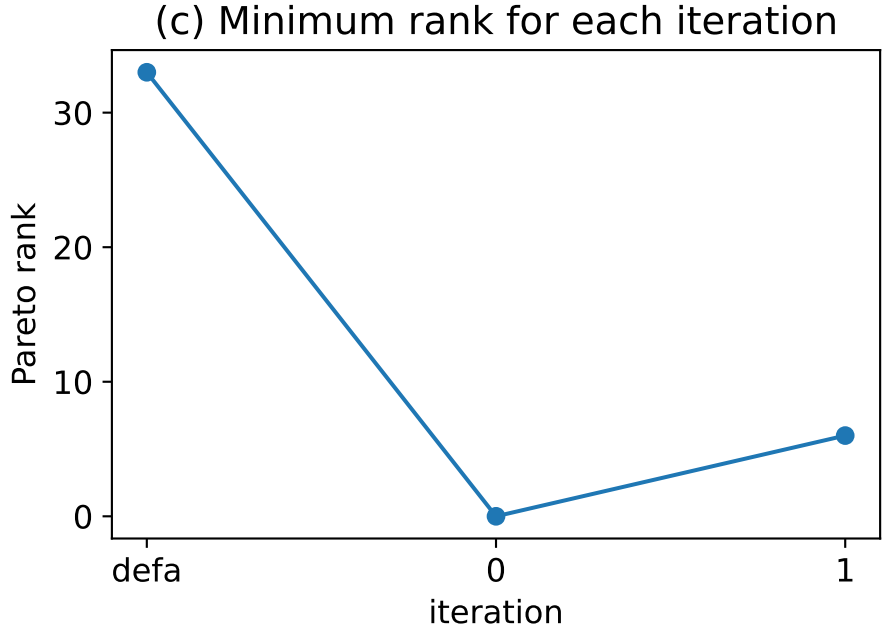




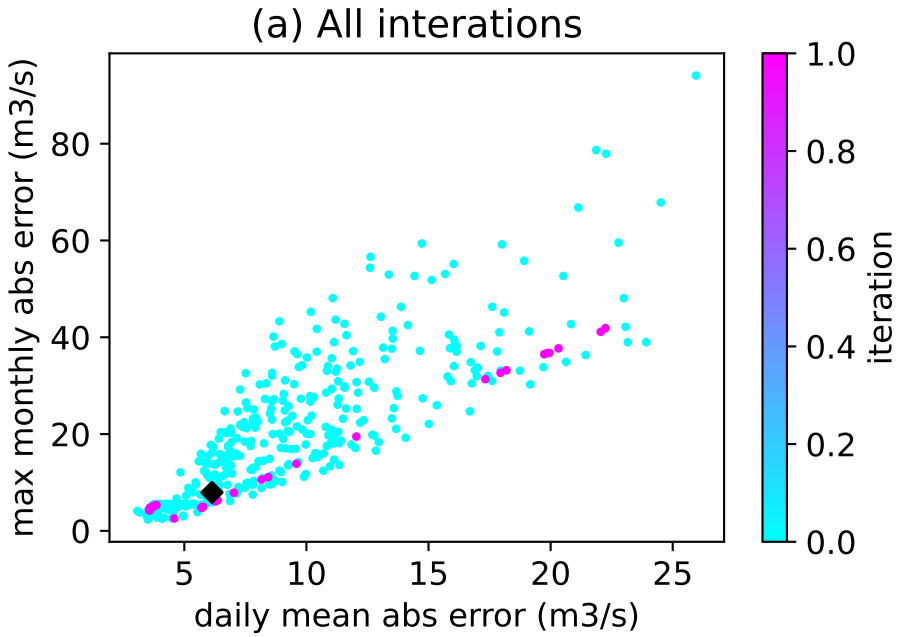
basinid: 377
hru_id: 7148400
lat_cen: 37.10984
lon_cen: -99.03979
AREA: 2560.54 km2
elev_mean: 554.19 m

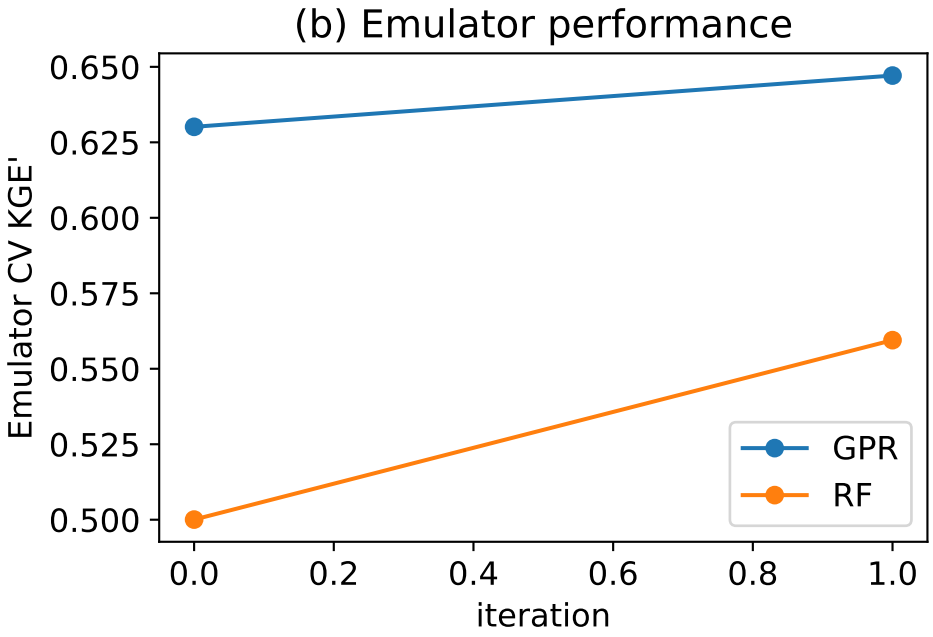


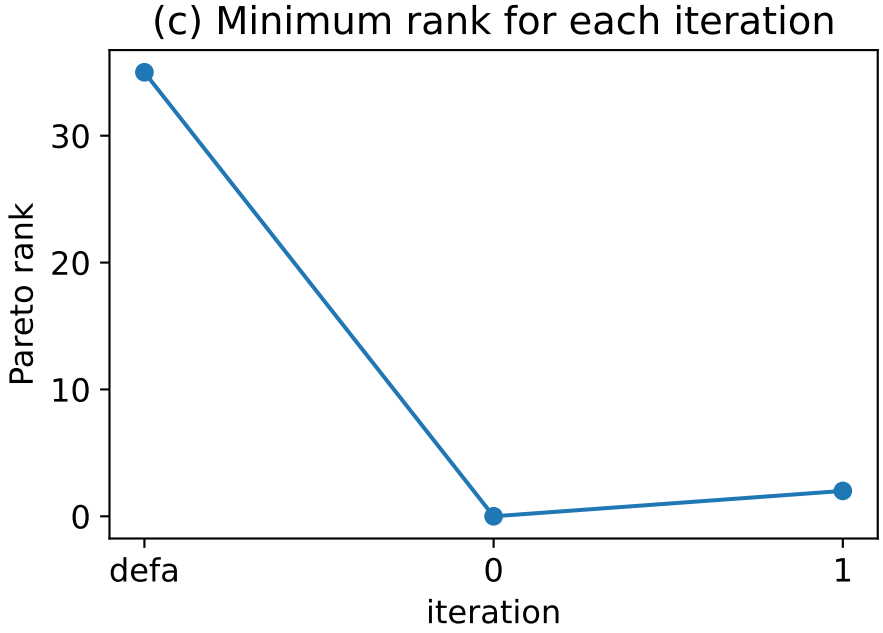




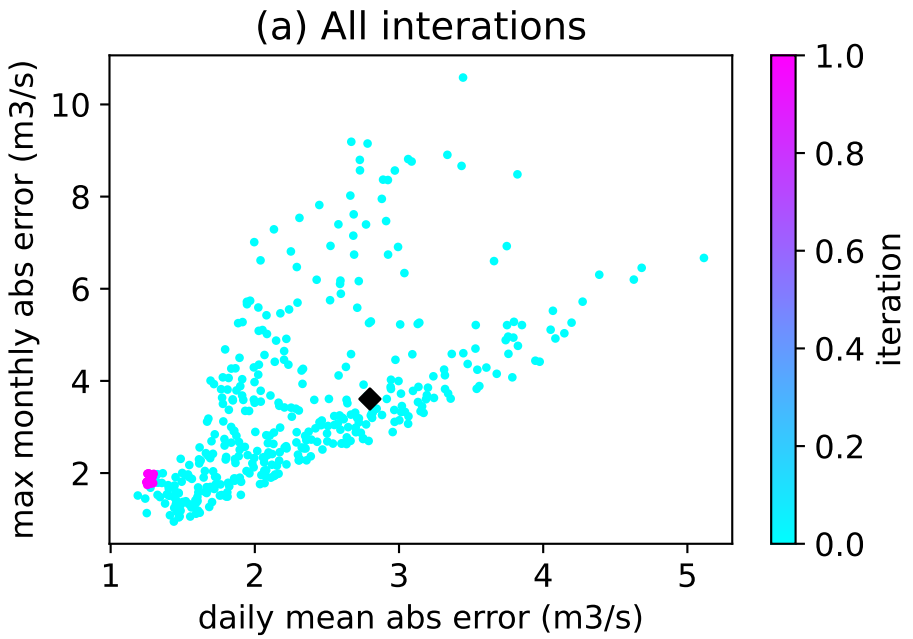
basinid: 378
hru_id: 7149000
lat_cen: 37.38117
lon_cen: -98.84362
AREA: 2263.97 km2
elev_mean: 554.31 m

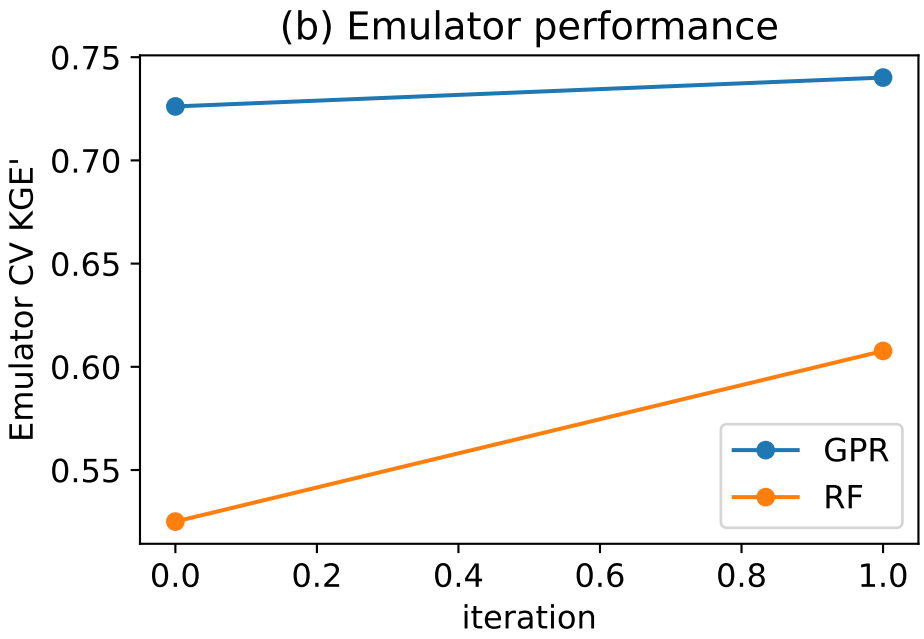


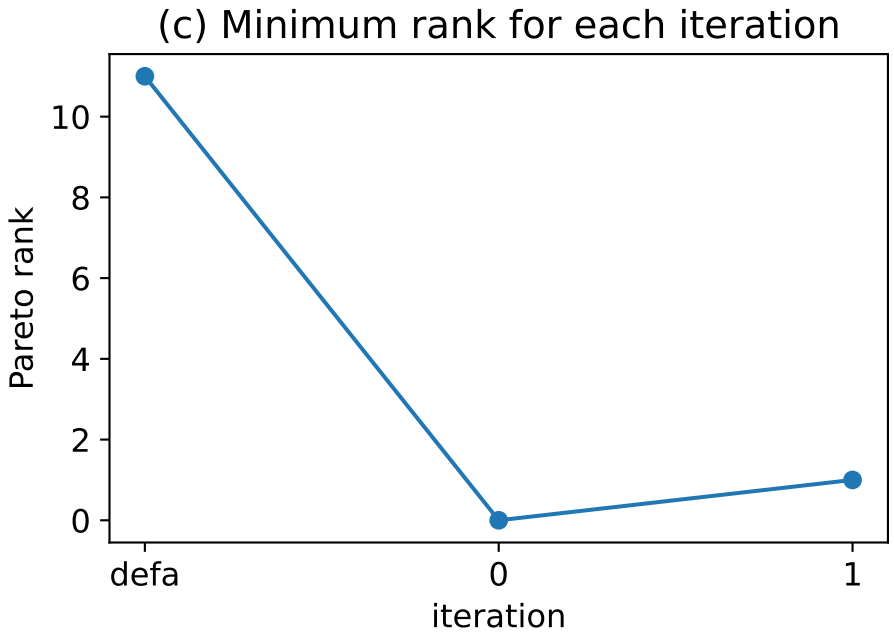




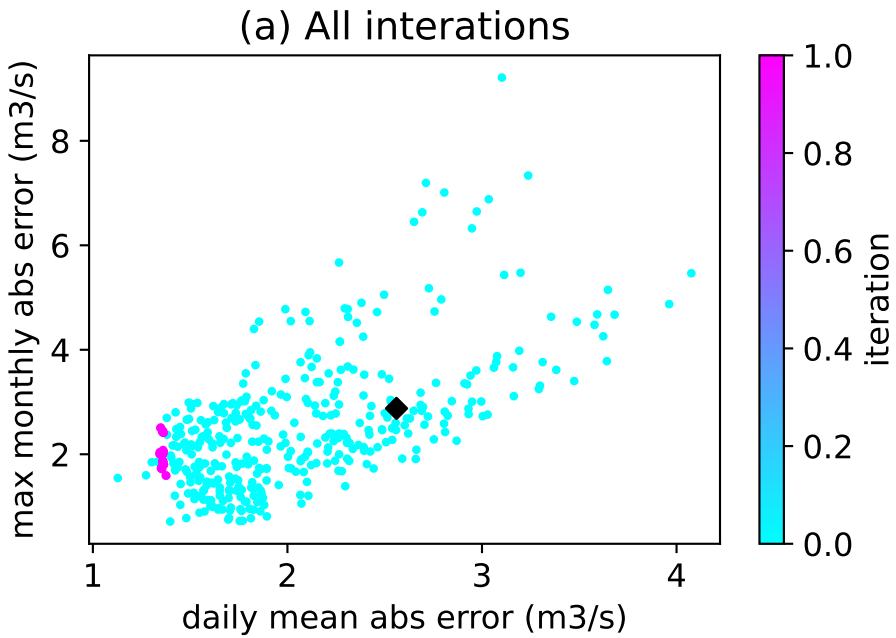
basinid: 379
hru_id: 7151500
lat_cen: 37.39766
lon_cen: -98.08738
AREA: 2111.83 km2
elev_mean: 463.93 m

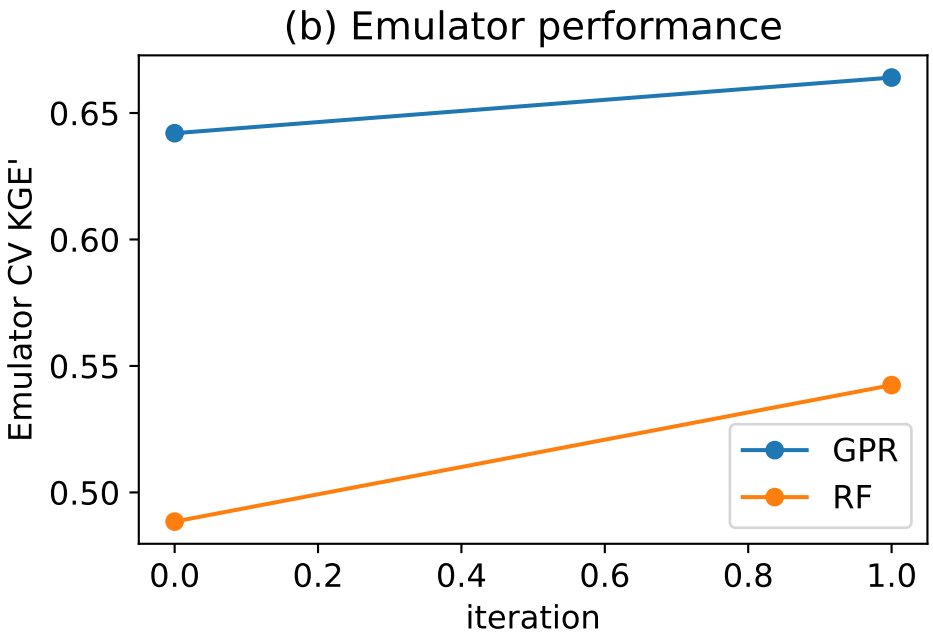


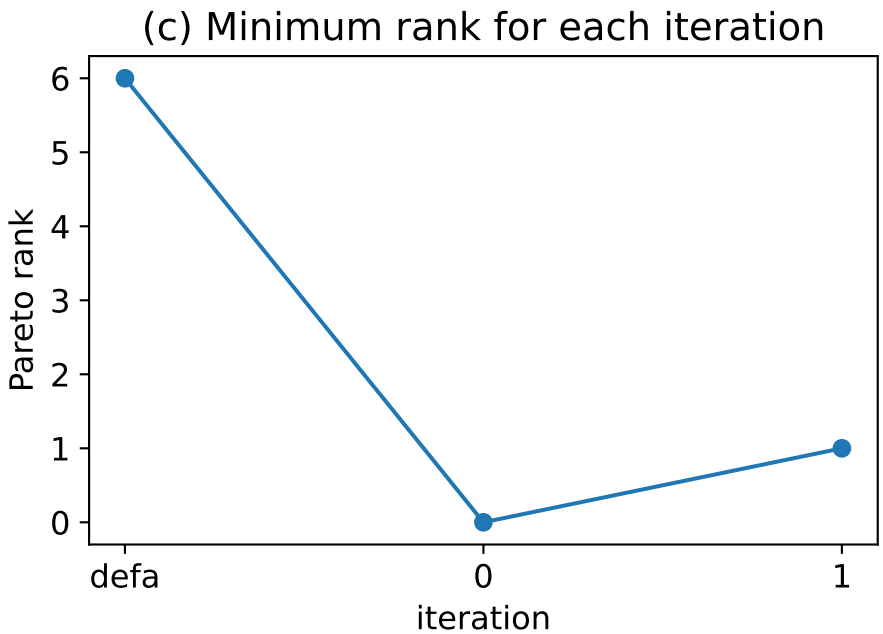




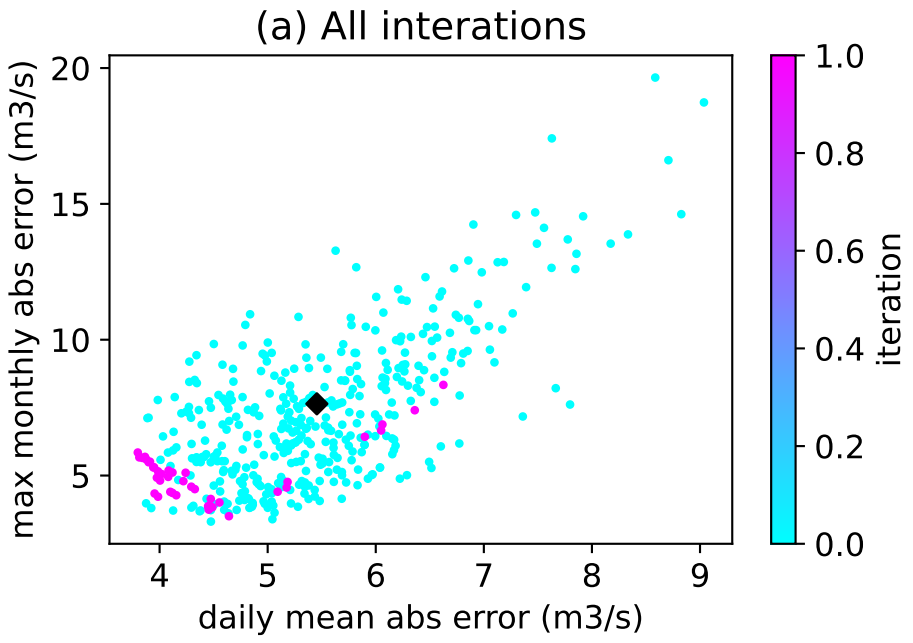
basinid: 380
hru_id: 7167500
lat_cen: 37.67957
lon_cen: -96.37992
AREA: 321.13 km2
elev_mean: 381.68 m

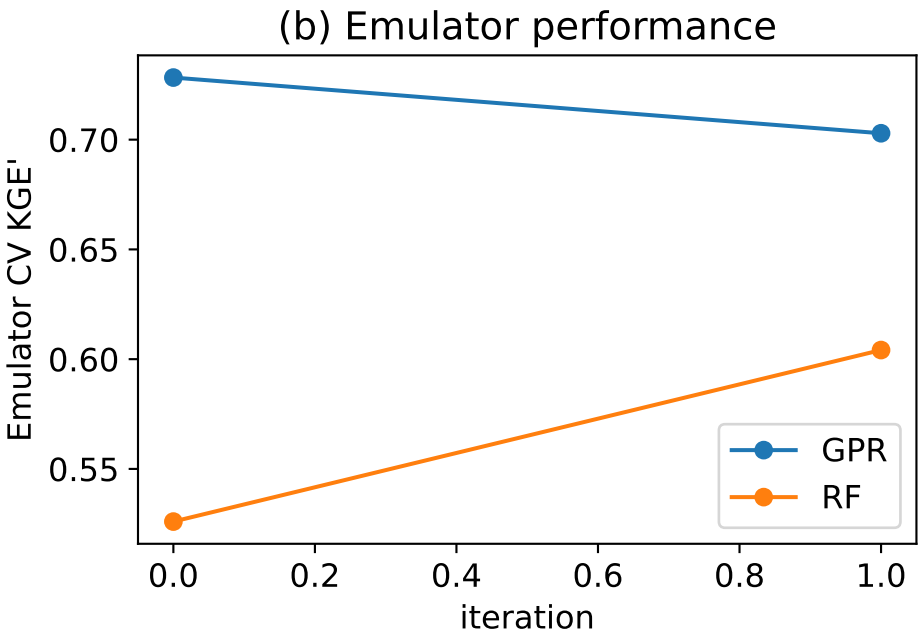


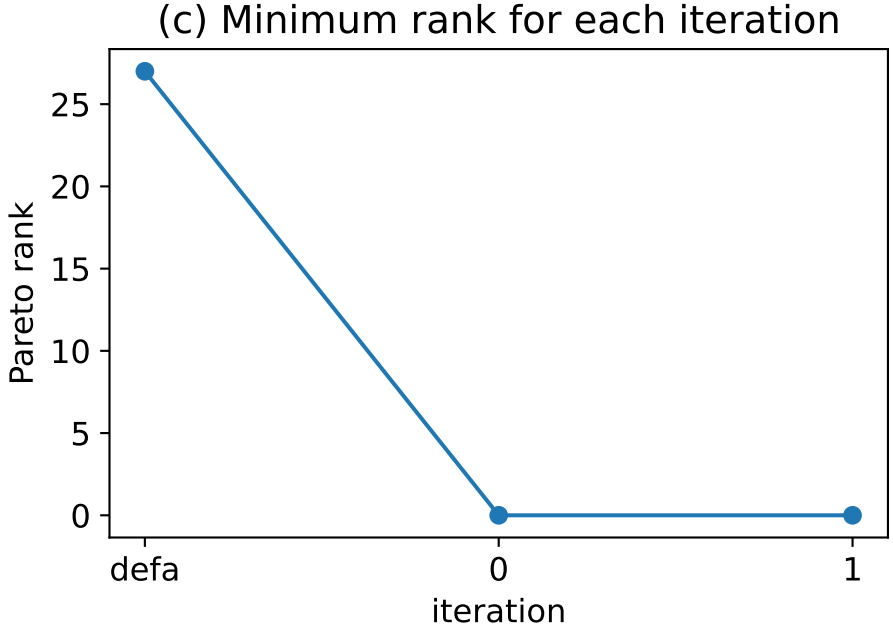




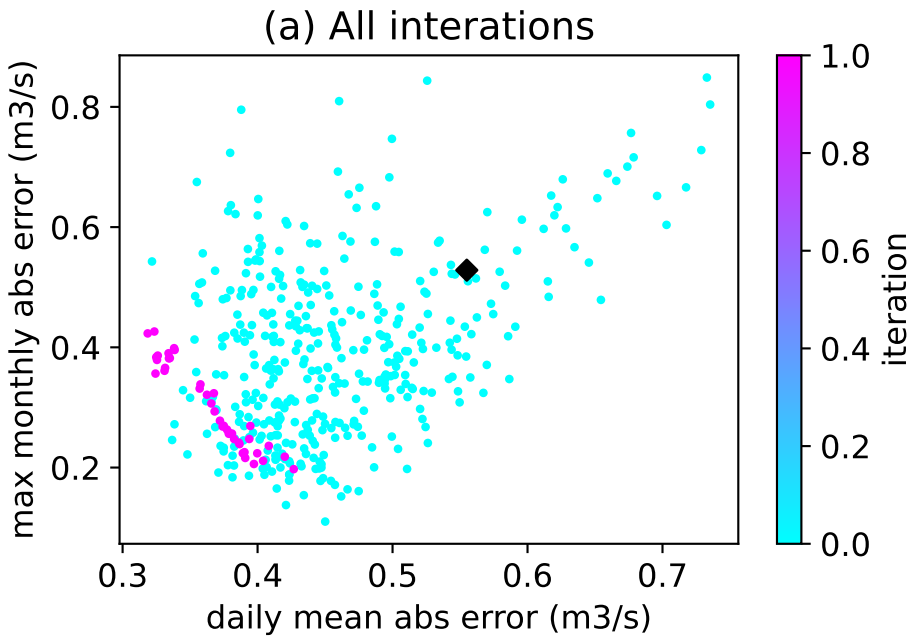
basinid: 381
hru_id: 7180500
lat_cen: 38.13105
lon_cen: -96.77742
AREA: 275.78 km2
elev_mean: 436.21 m

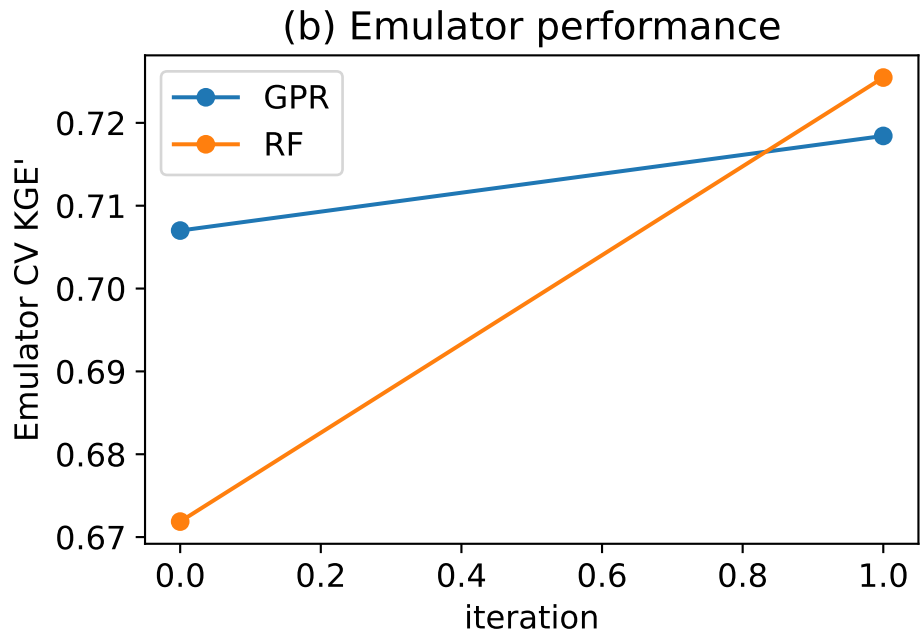


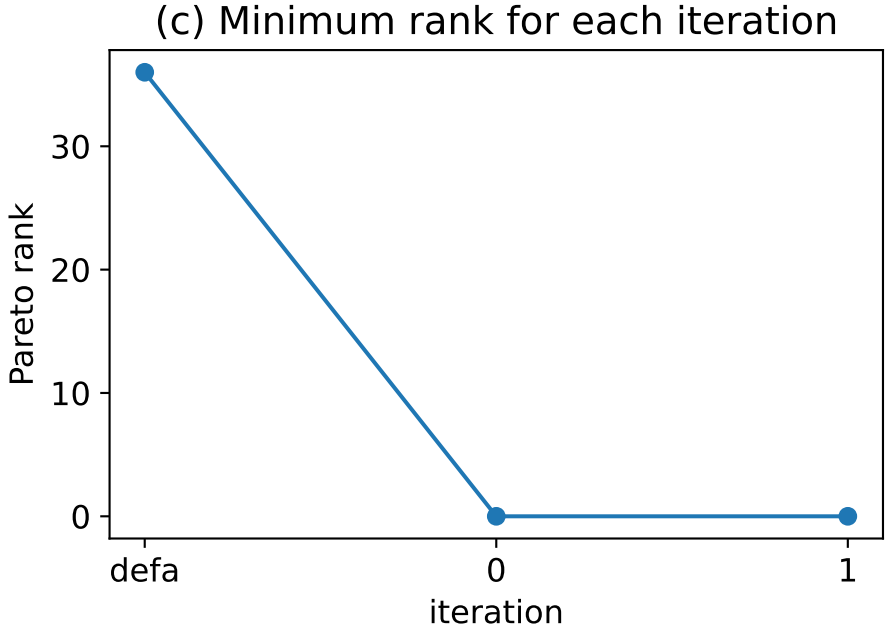




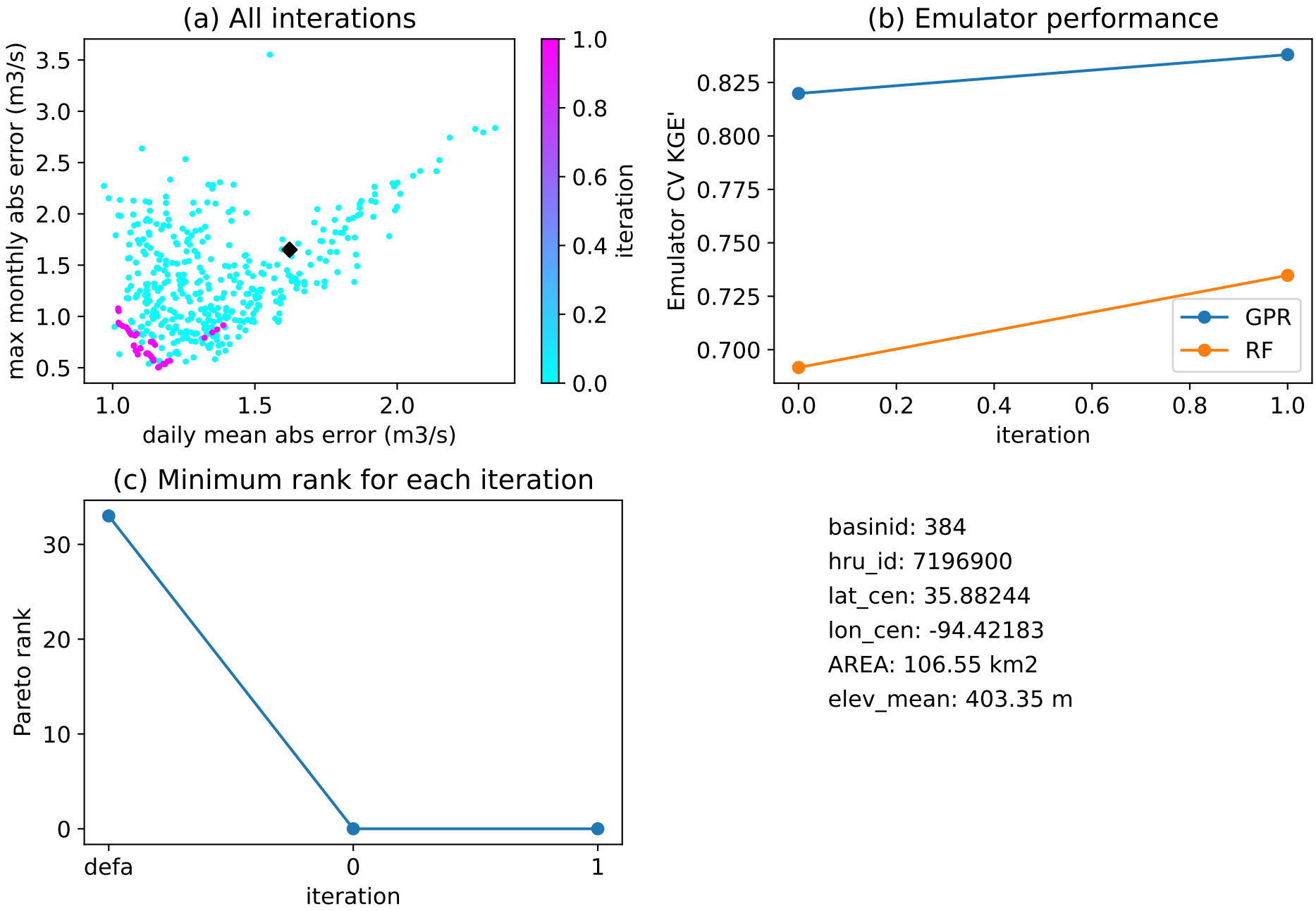
basinid: 382
hru_id: 7184000
lat_cen: 37.4319
lon_cen: -94.91913
AREA: 514.83 km2
elev_mean: 280.95 m

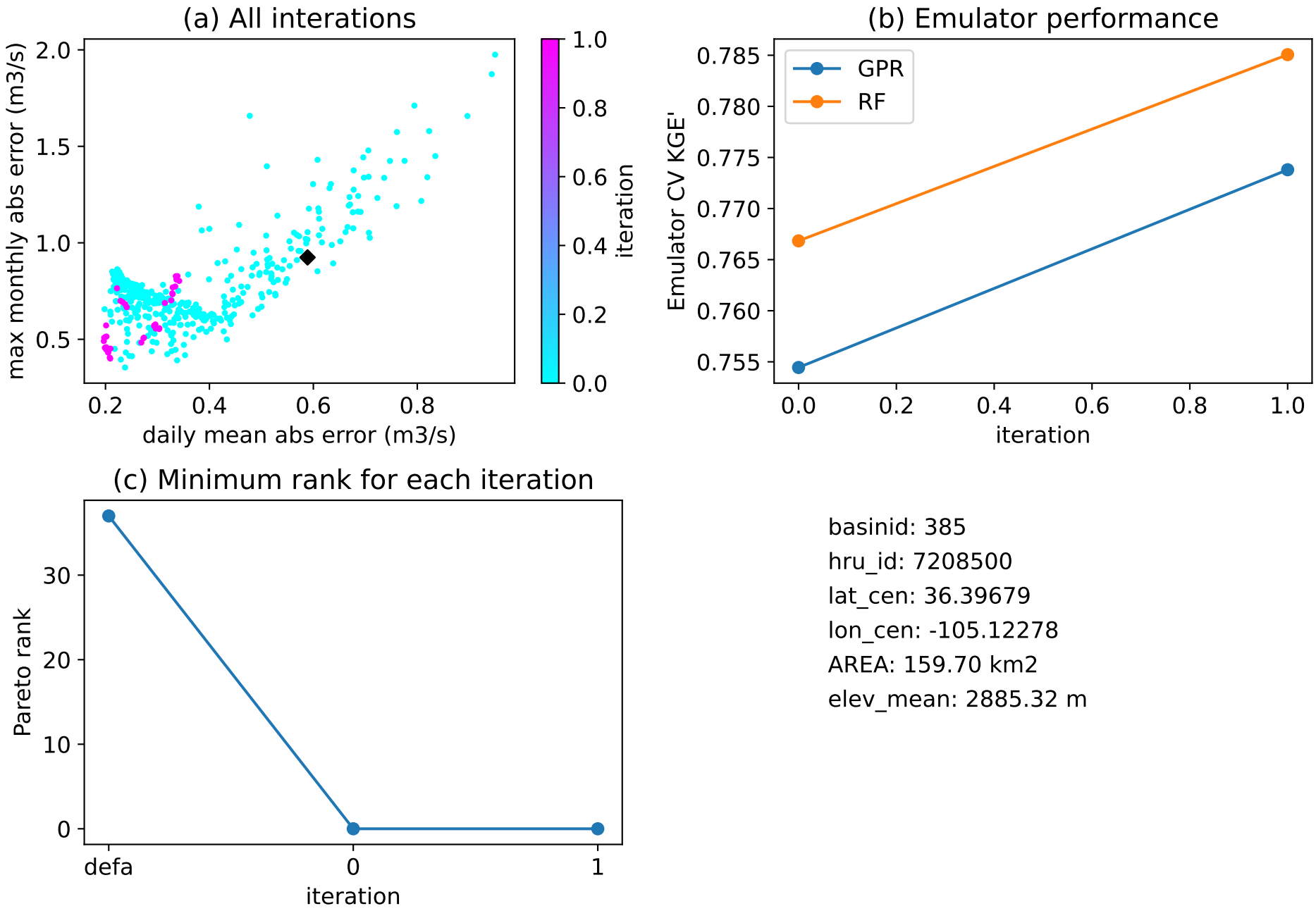


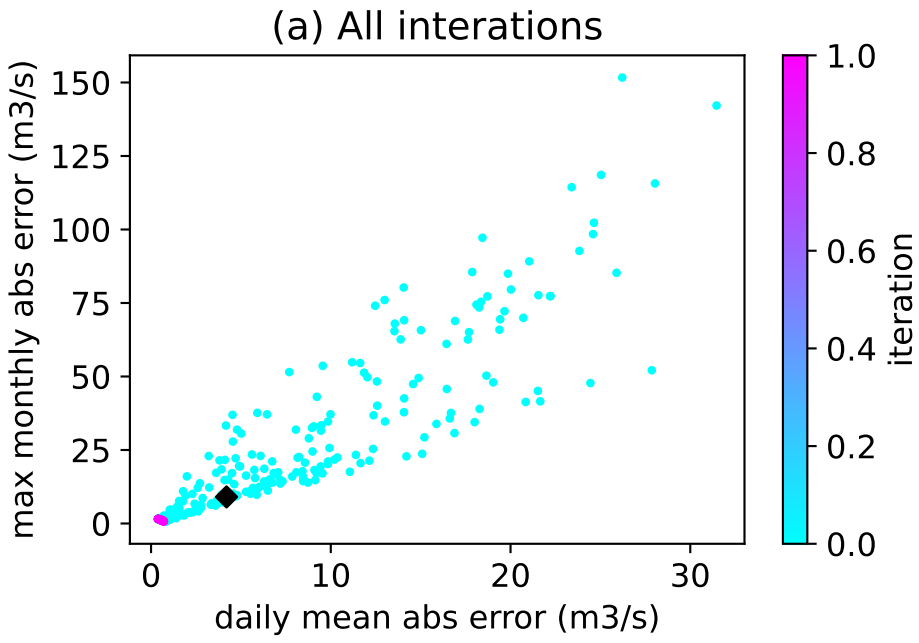


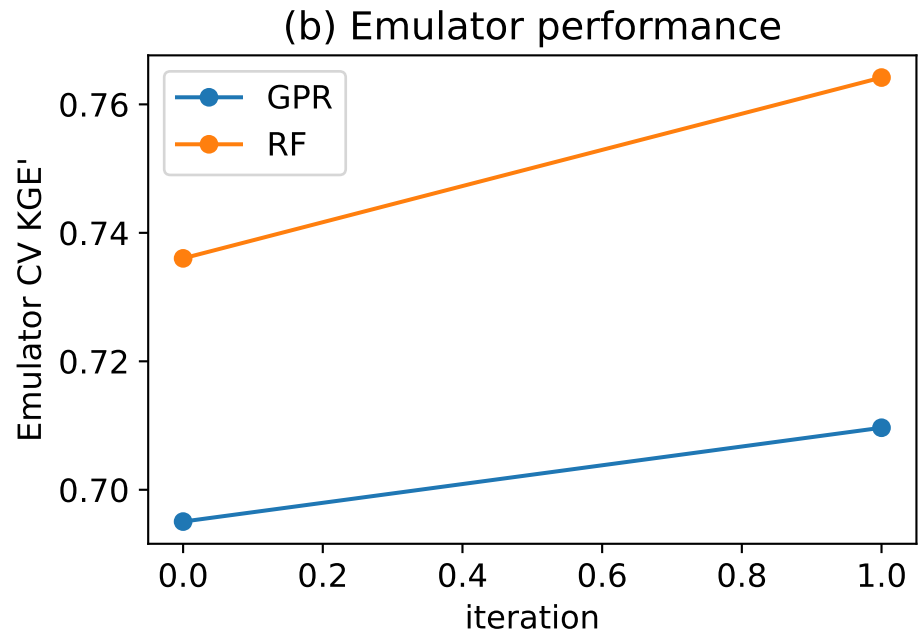


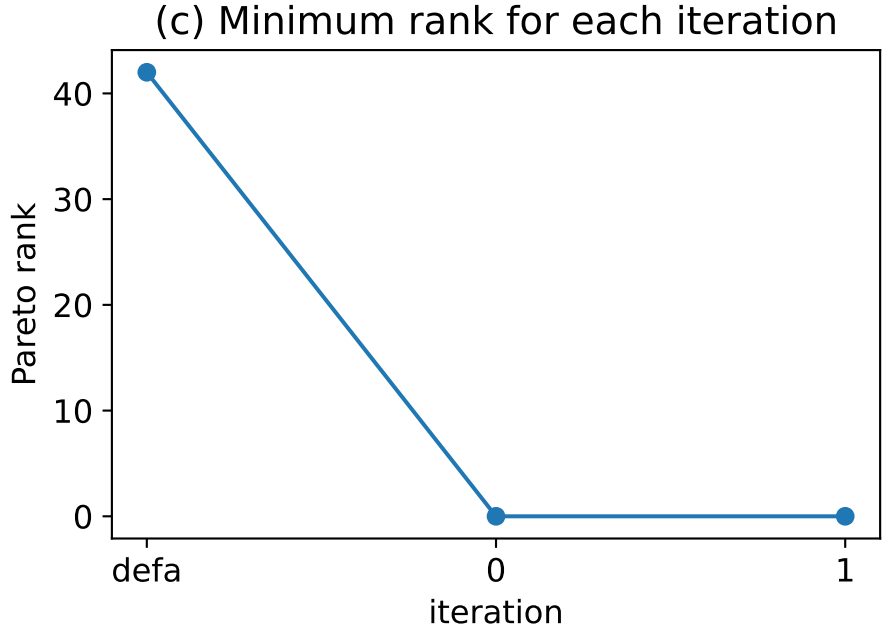
basinid: 383
hru_id: 7195800
lat_cen: 36.28178
lon_cen: -94.40074
AREA: 38.58 km2
elev_mean: 403.82 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 384
hru_id: 7196900
lat_cen: 35.88244
lon_cen: -94.42183
AREA: 106.55 km2
elev_mean: 403.35 m

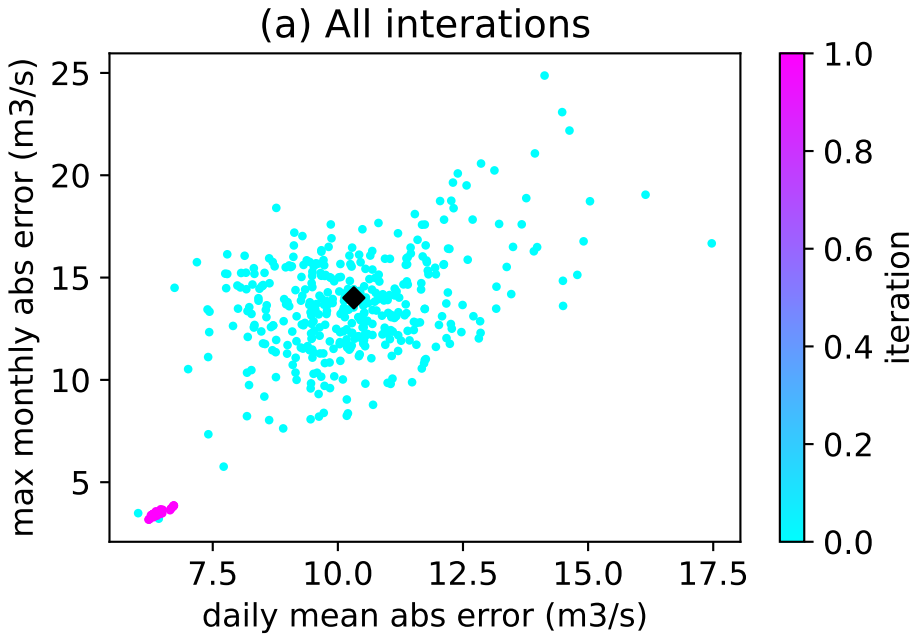

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 385
hru_id: 7208500
lat_cen: 36.39679
lon_cen: -105.12278
AREA: 159.70 km2
elev_mean: 2885.32 m

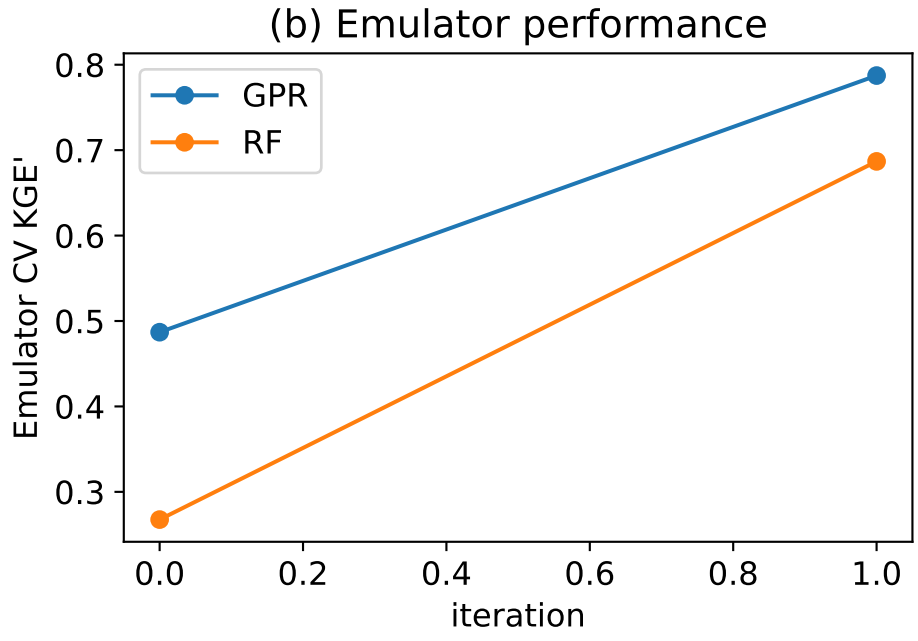


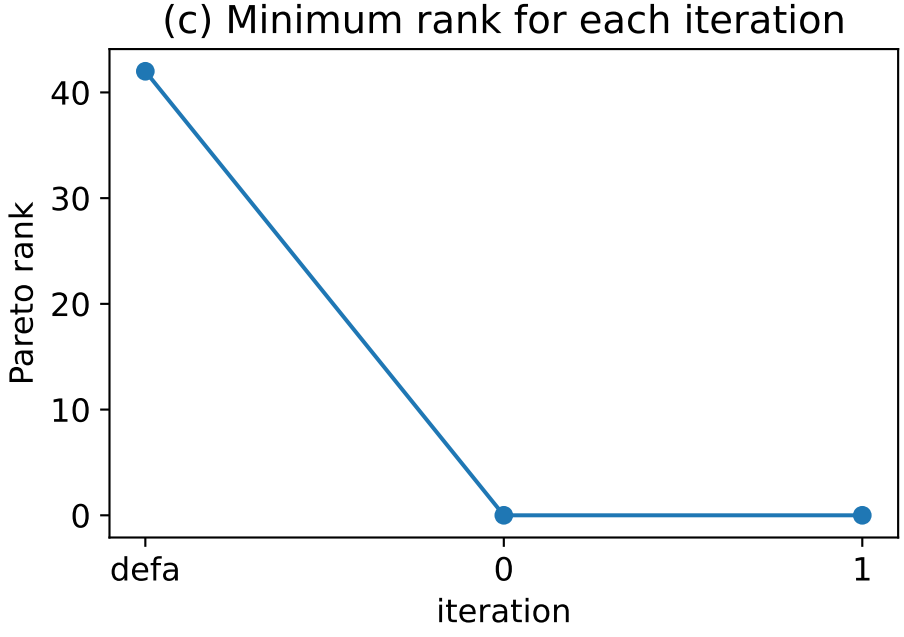




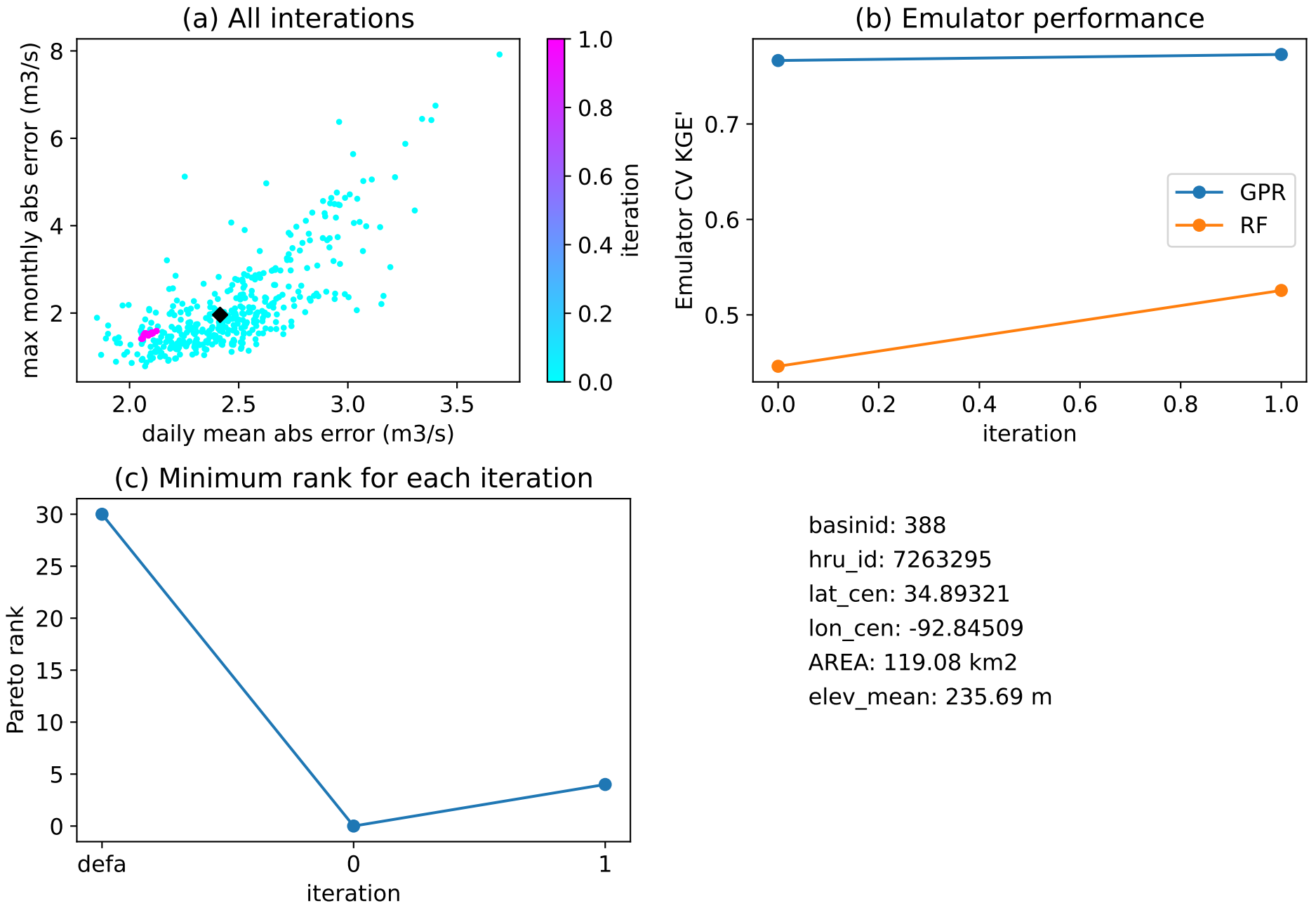
basinid: 386
hru_id: 7226500
lat_cen: 36.02758
lon_cen: -103.84928
AREA: 5245.94 km2
elev_mean: 1636.95 m

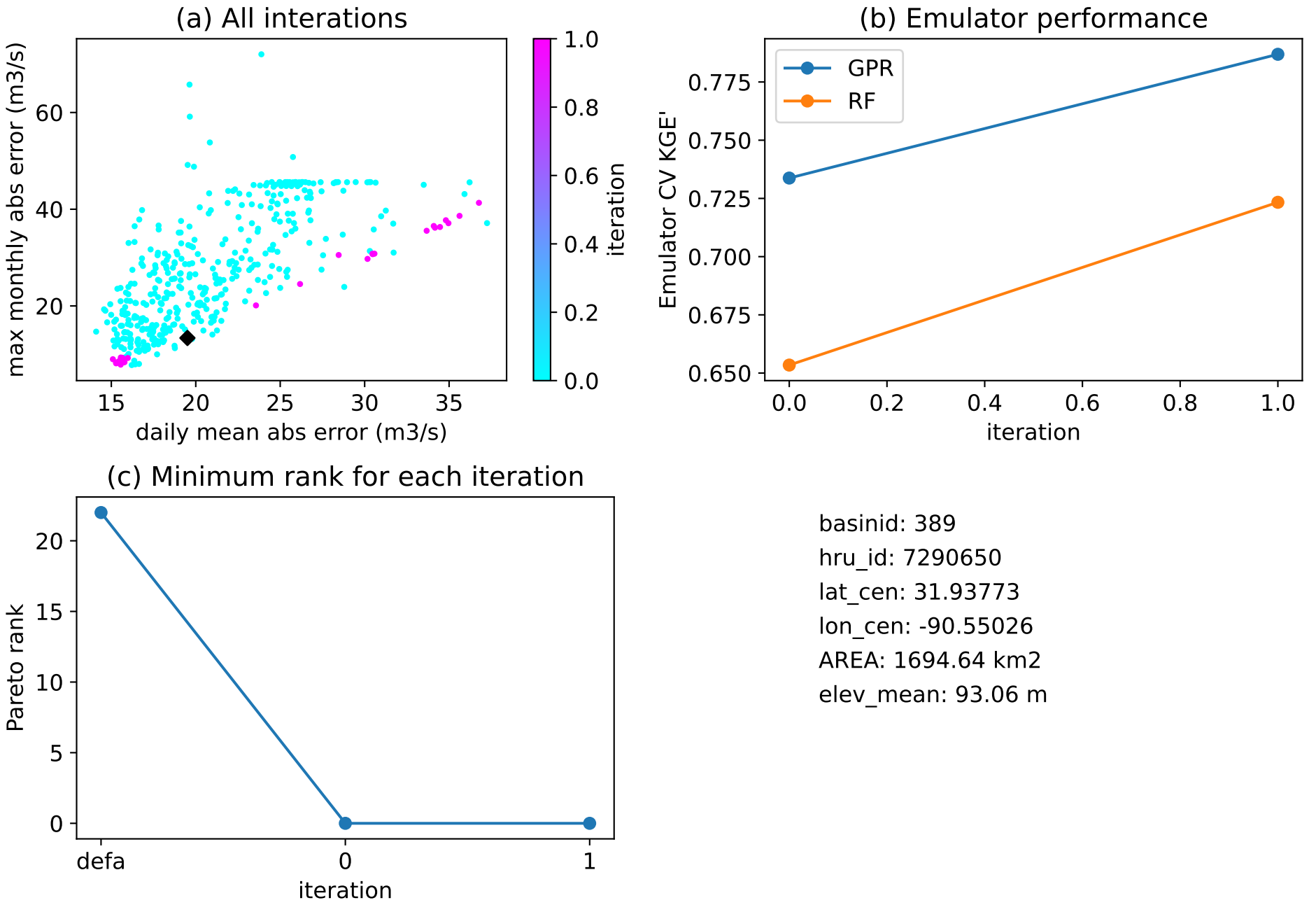


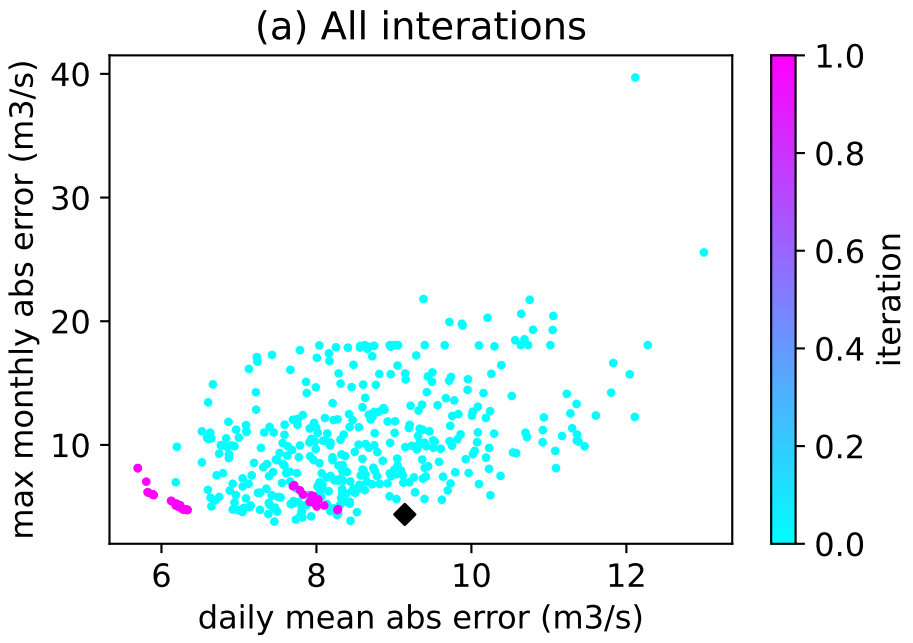


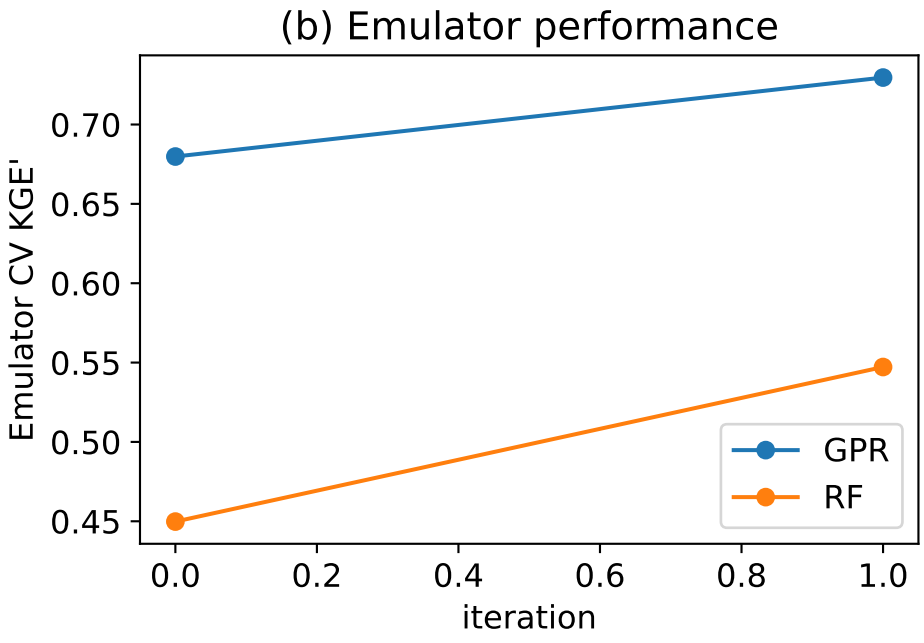


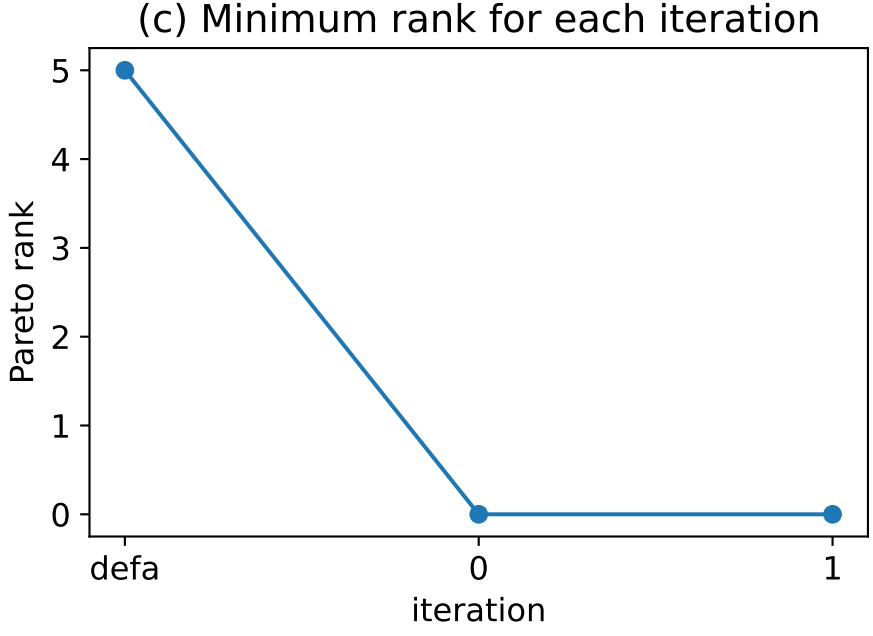
basinid: 387
hru_id: 7261000
lat_cen: 35.41851
lon_cen: -92.25418
AREA: 455.95 km2
elev_mean: 215.52 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 388
hru_id: 7263295
lat_cen: 34.89321
lon_cen: -92.84509
AREA: 119.08 km2
elev_mean: 235.69 m

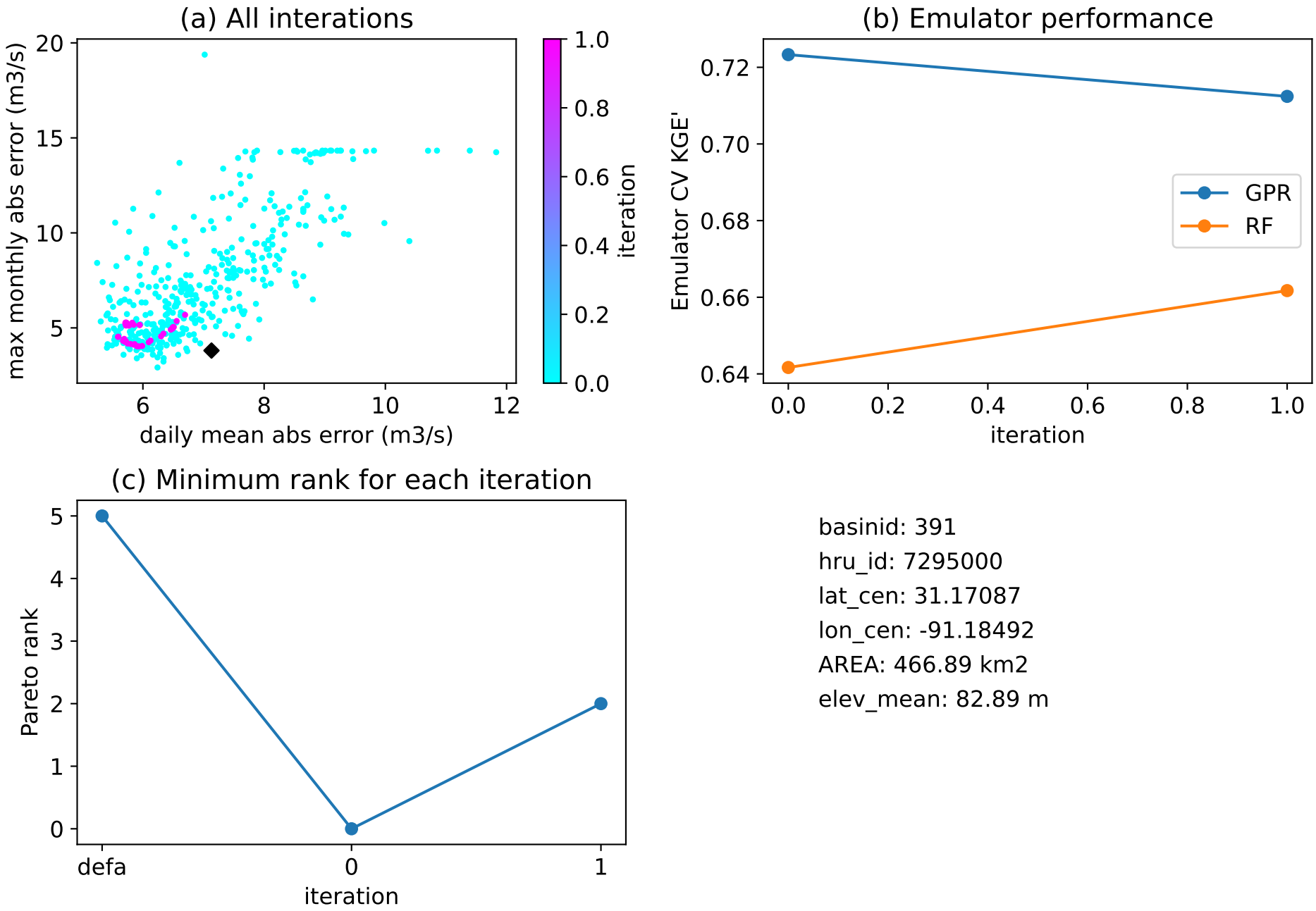

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 389
hru_id: 7290650
lat_cen: 31.93773
lon_cen: -90.55026
AREA: 1694.64 km2
elev_mean: 93.06 m

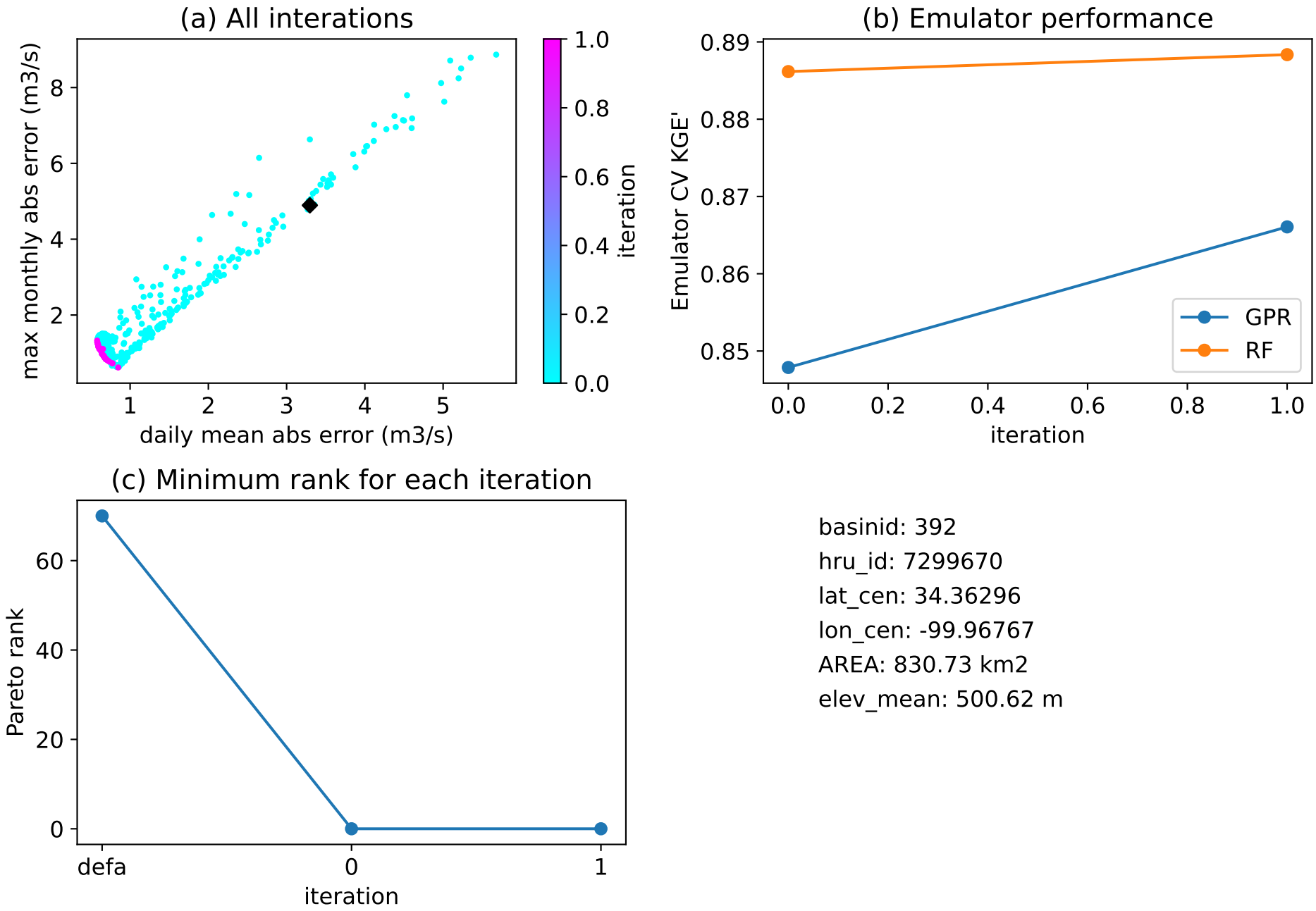


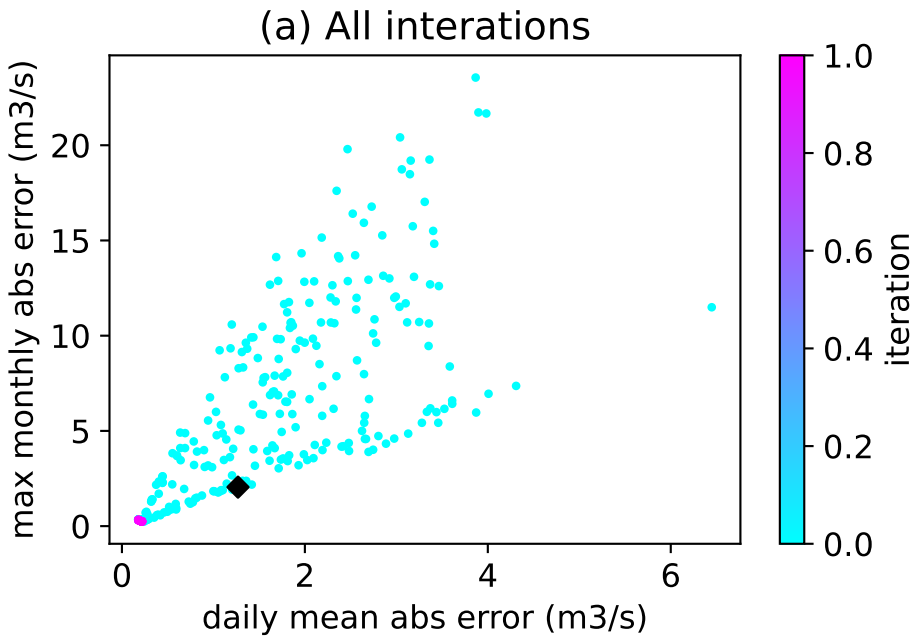


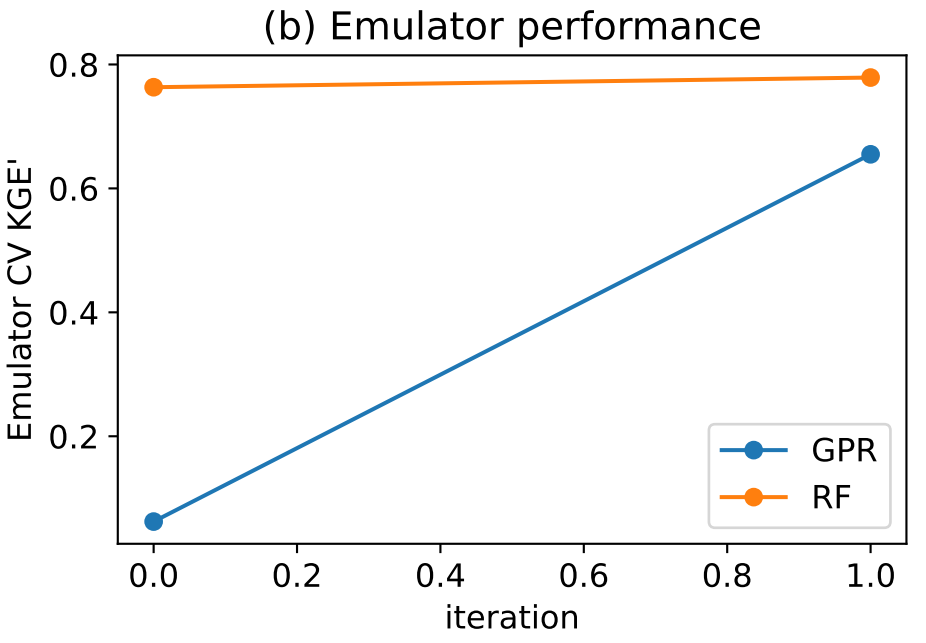


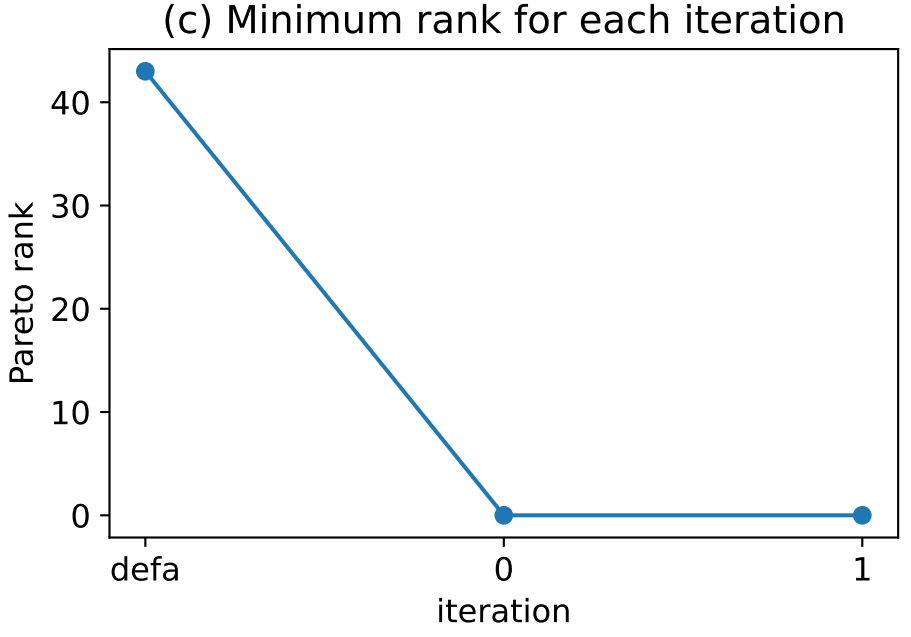
basinid: 390
hru_id: 7291000
lat_cen: 31.65003
lon_cen: -90.71334
AREA: 482.23 km2
elev_mean: 122.78 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 391
hru_id: 7295000
lat_cen: 31.17087
lon_cen: -91.18492
AREA: 466.89 km2
elev_mean: 82.89 m

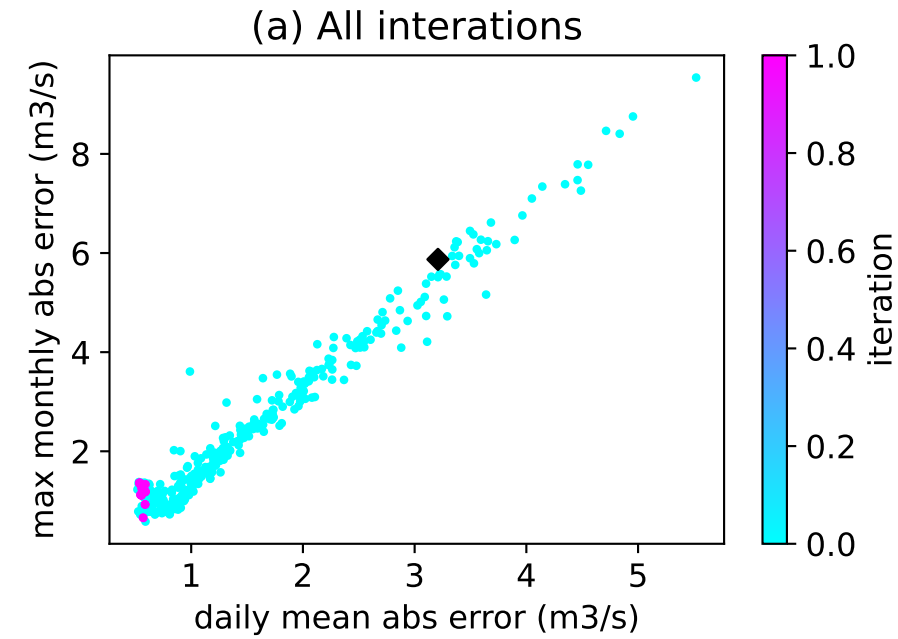

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 392
hru_id: 7299670
lat_cen: 34.36296
lon_cen: -99.96767
AREA: 830.73 km2
elev_mean: 500.62 m

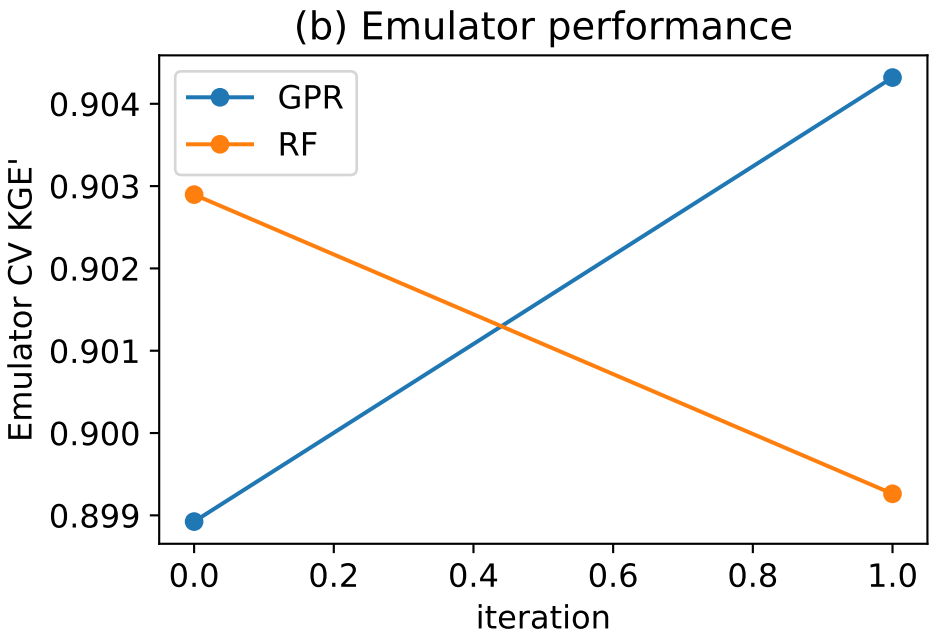


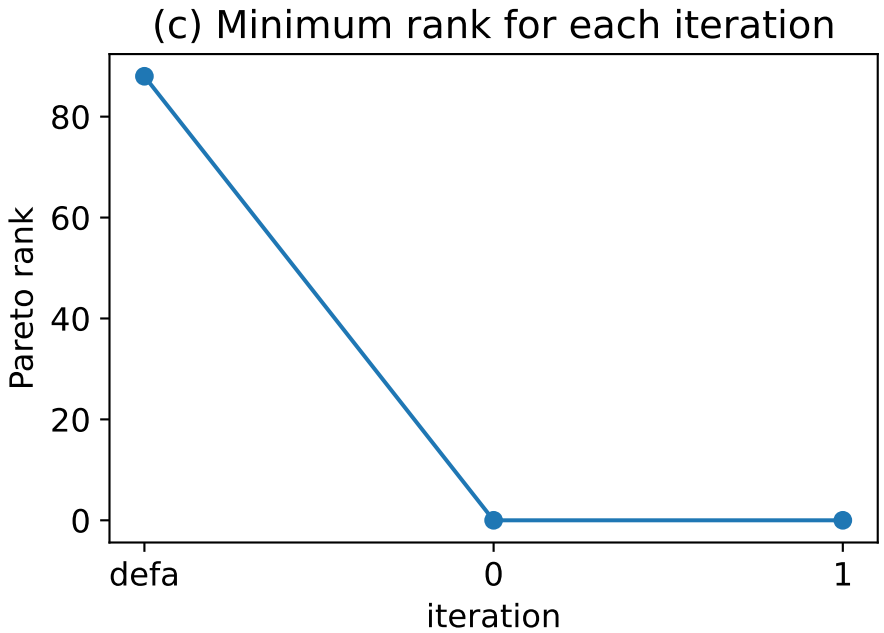




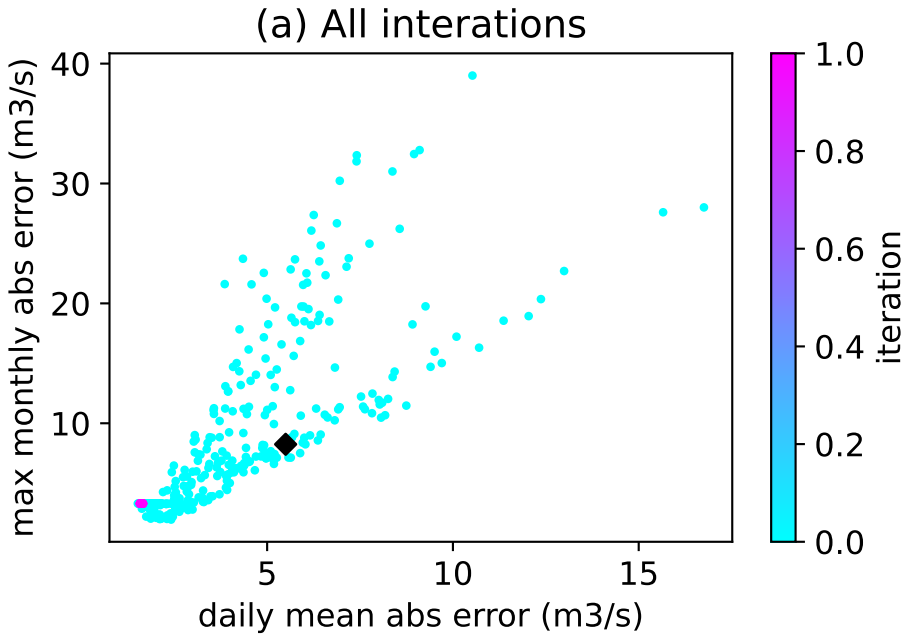
basinid: 393
hru_id: 7301410
lat_cen: 35.51673
lon_cen: -100.36455
AREA: 773.73 km2
elev_mean: 800.07 m

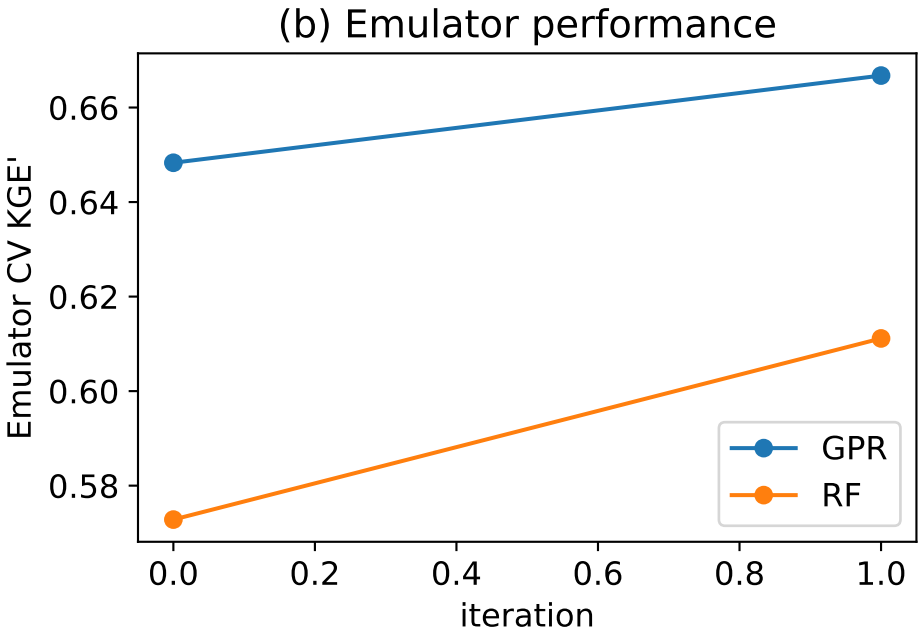


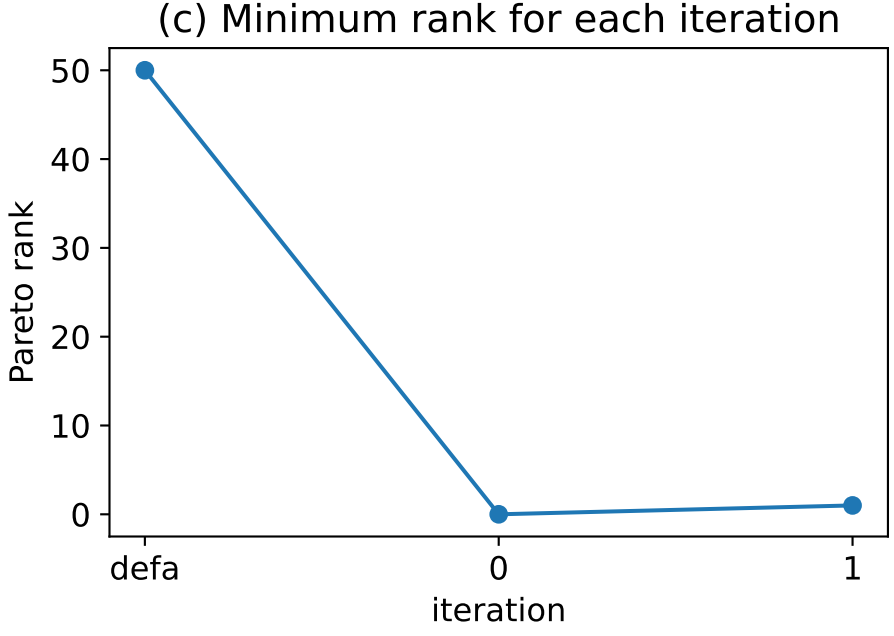




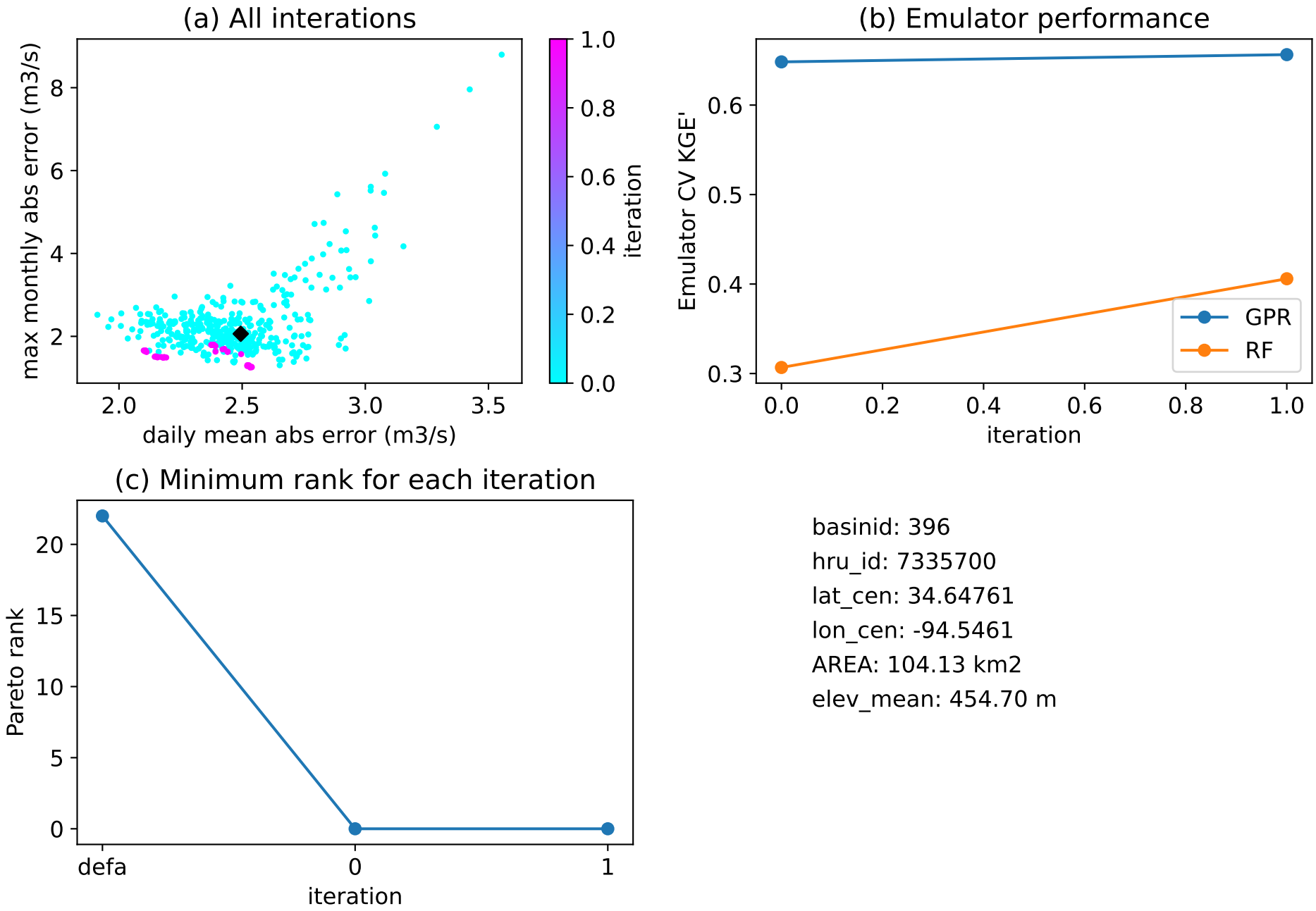
basinid: 394
hru_id: 7315200
lat_cen: 33.6511
lon_cen: -98.12063
AREA: 502.71 km2
elev_mean: 300.83 m

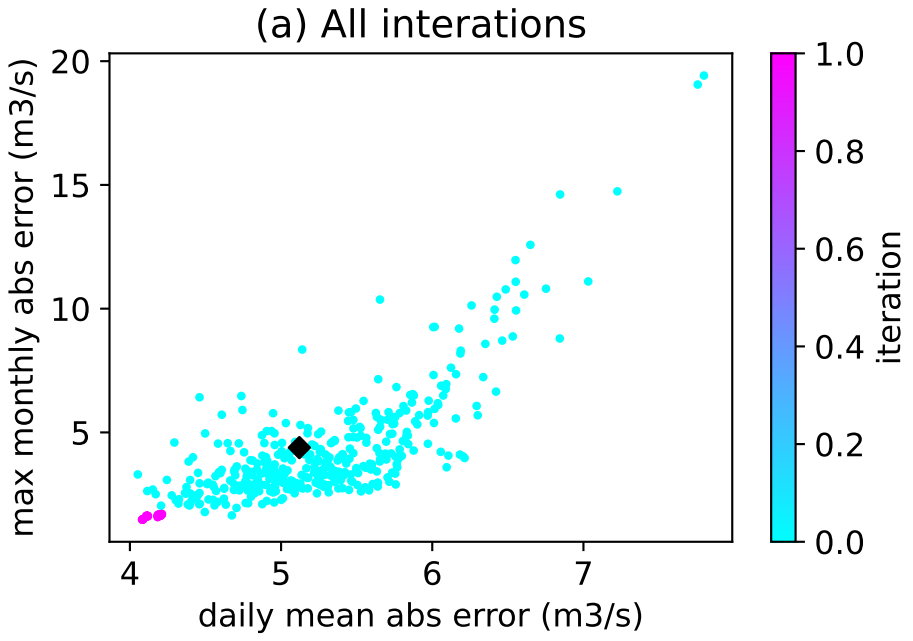


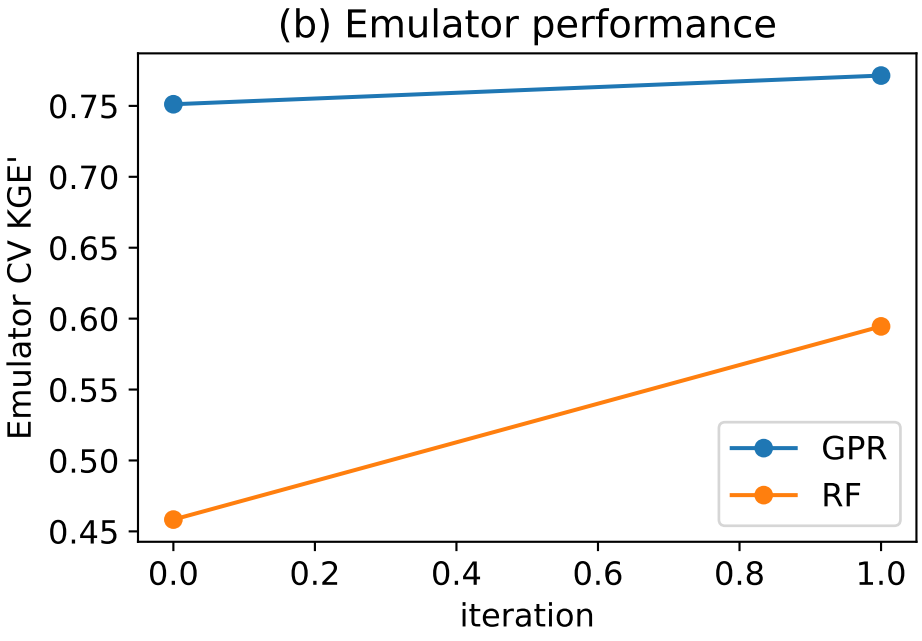


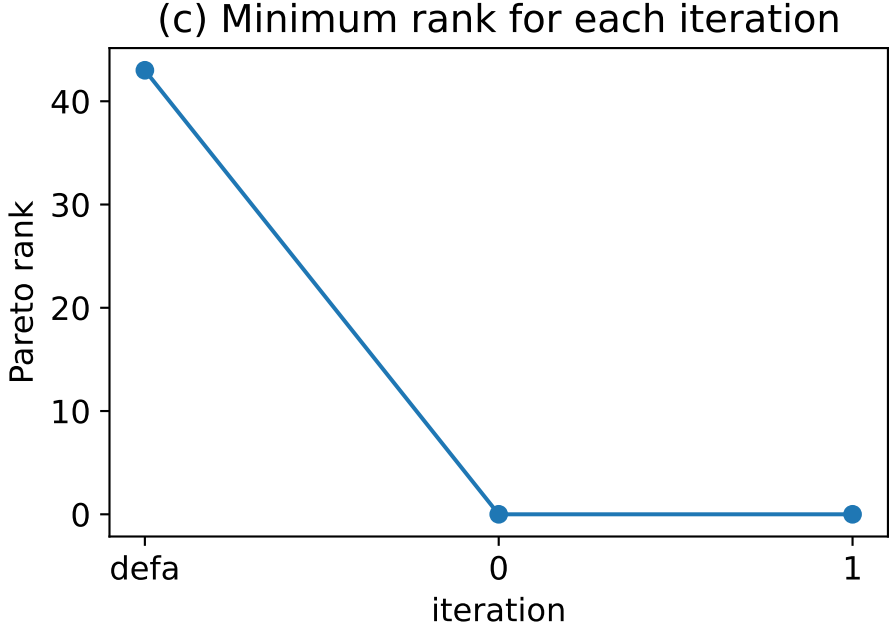


basinid: 395
hru_id: 7315700
lat_cen: 34.24329
lon_cen: -97.72738
AREA: 1491.44 km2
elev_mean: 286.50 m

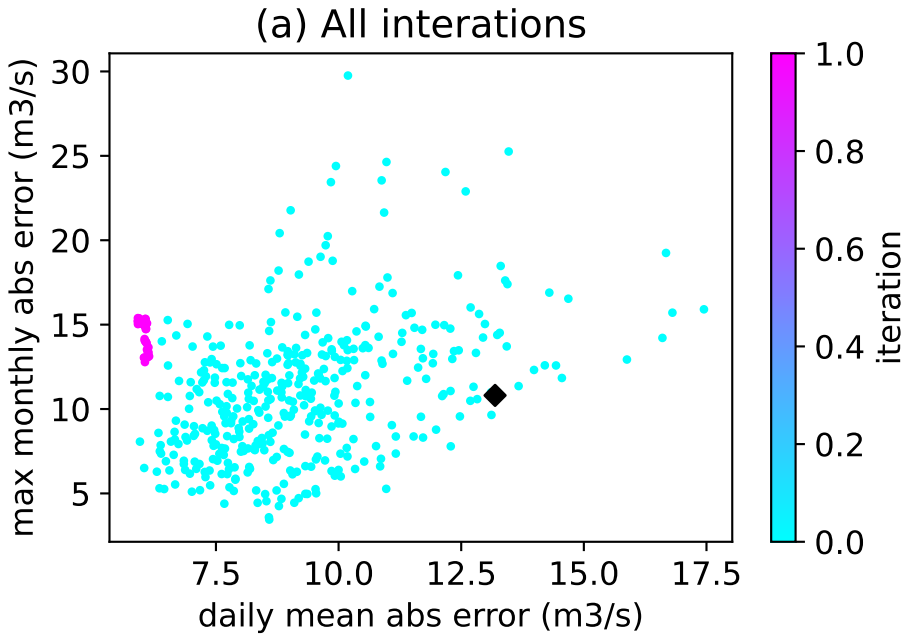

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 396
hru_id: 7335700
lat_cen: 34.64761
lon_cen: -94.5461
AREA: 104.13 km2
elev_mean: 454.70 m

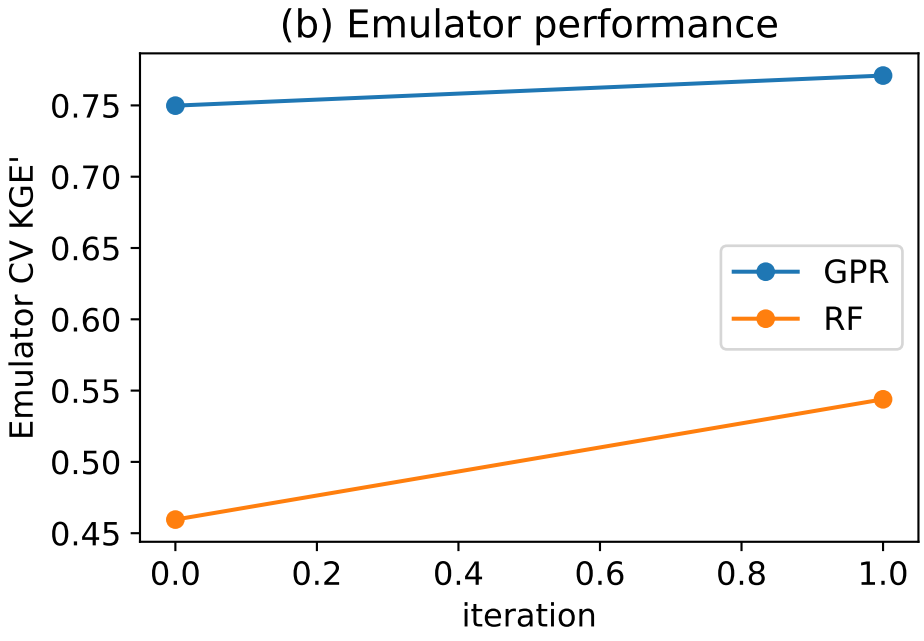


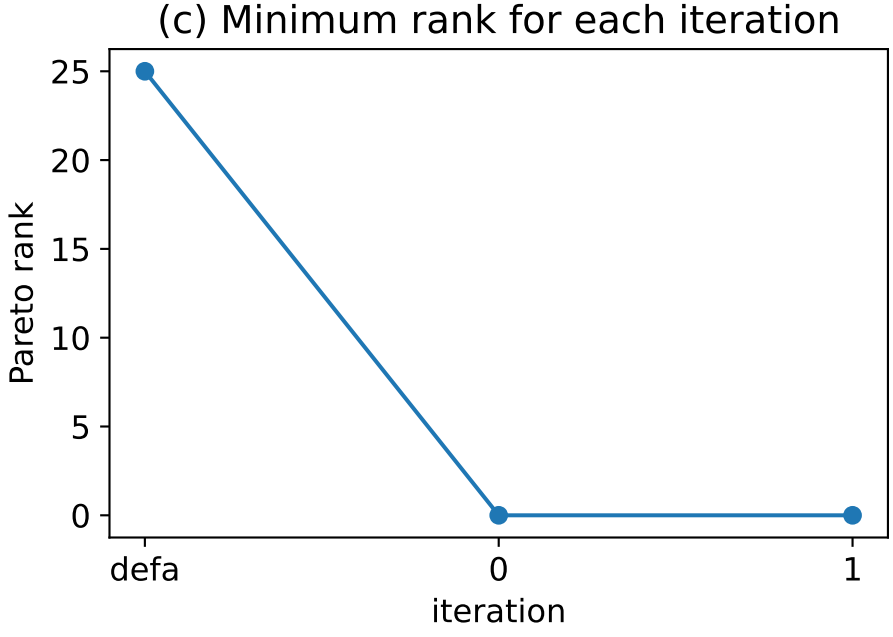




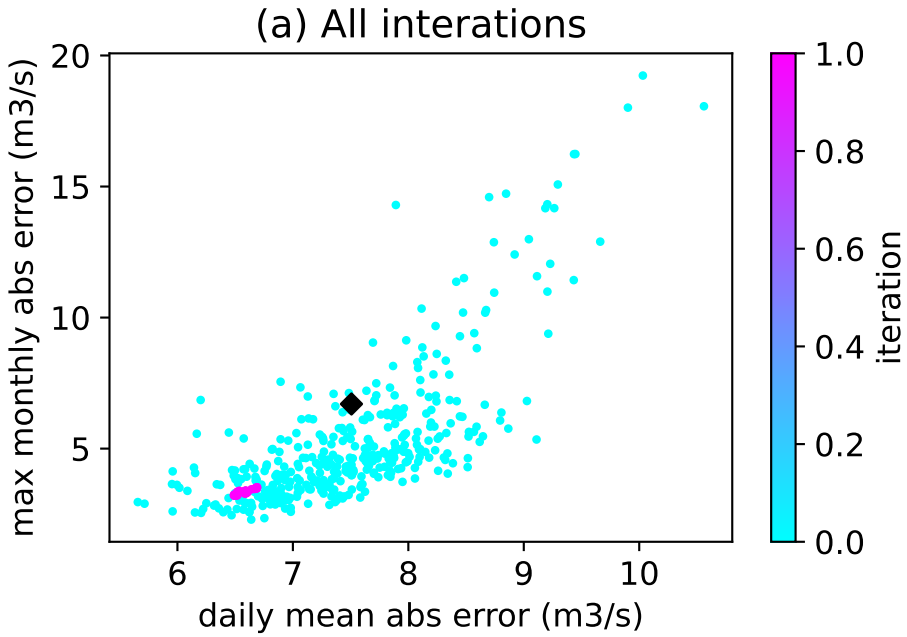
basinid: 397
hru_id: 7340300
lat_cen: 34.42473
lon_cen: -94.17029
AREA: 252.14 km2
elev_mean: 393.65 m

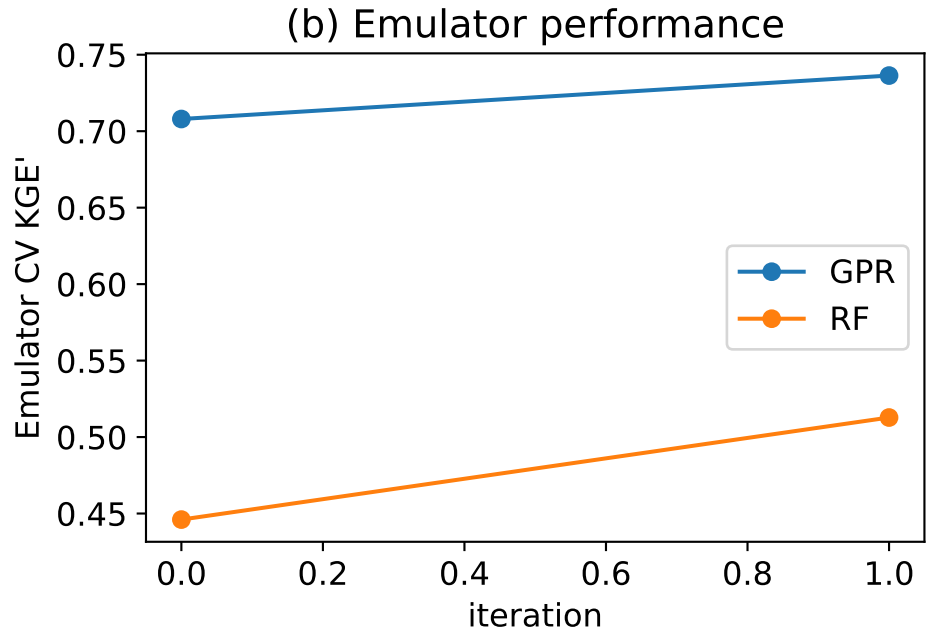


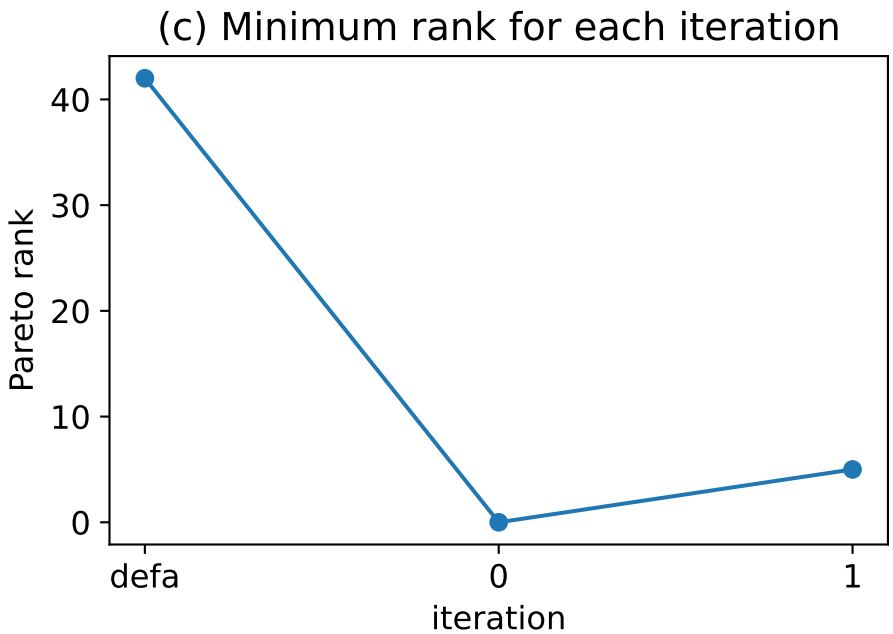




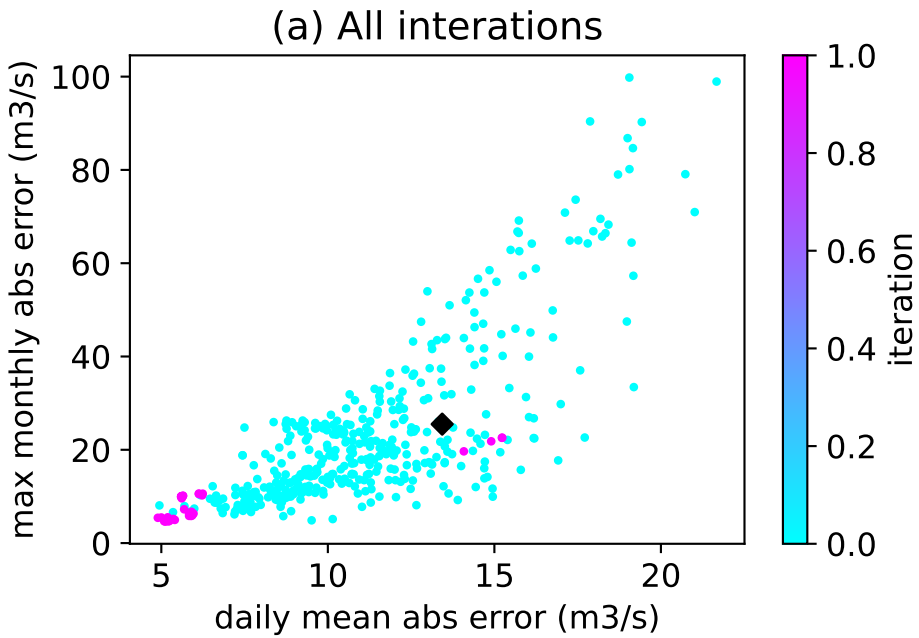
basinid: 398
hru_id: 7346045
lat_cen: 33.01187
lon_cen: -94.52671
AREA: 963.18 km2
elev_mean: 107.39 m

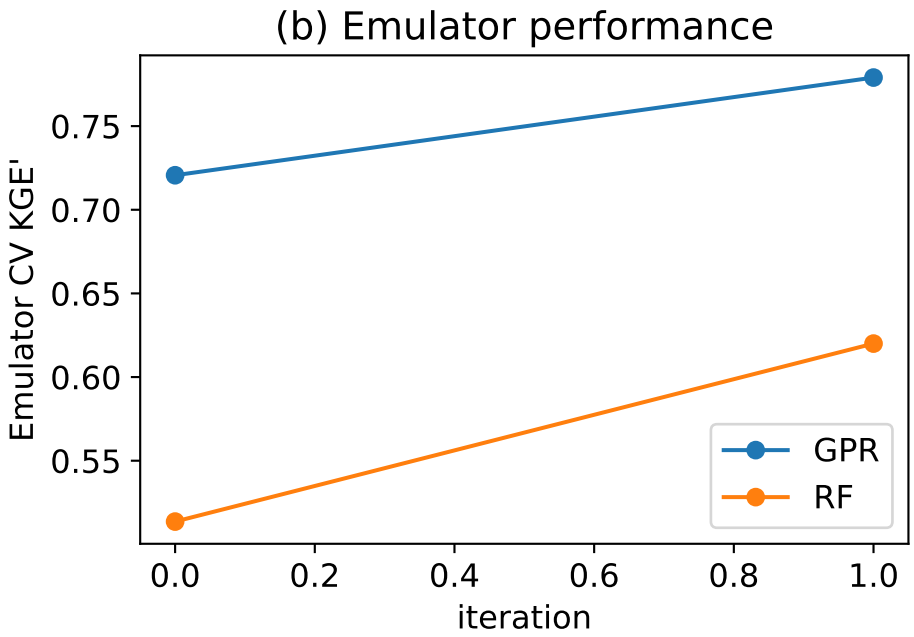


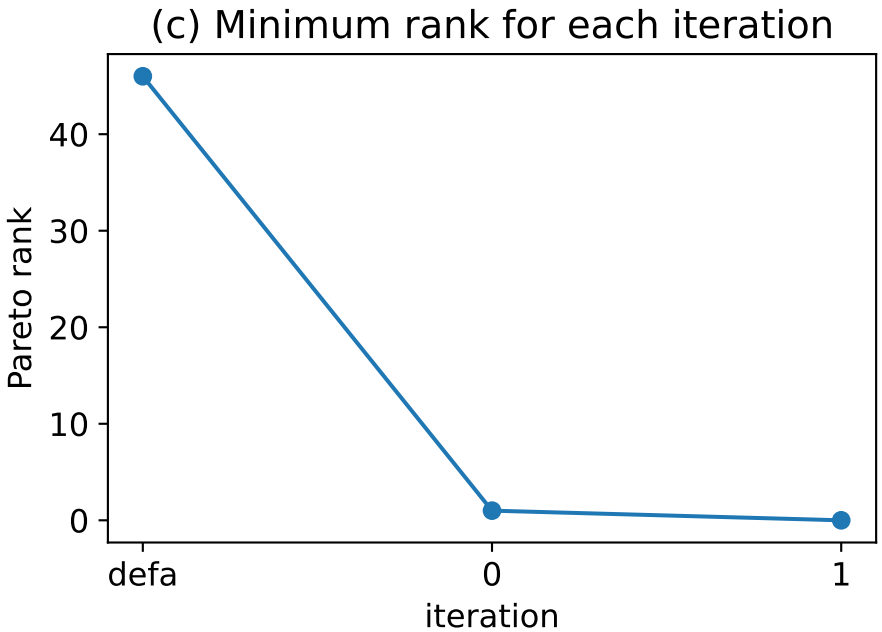




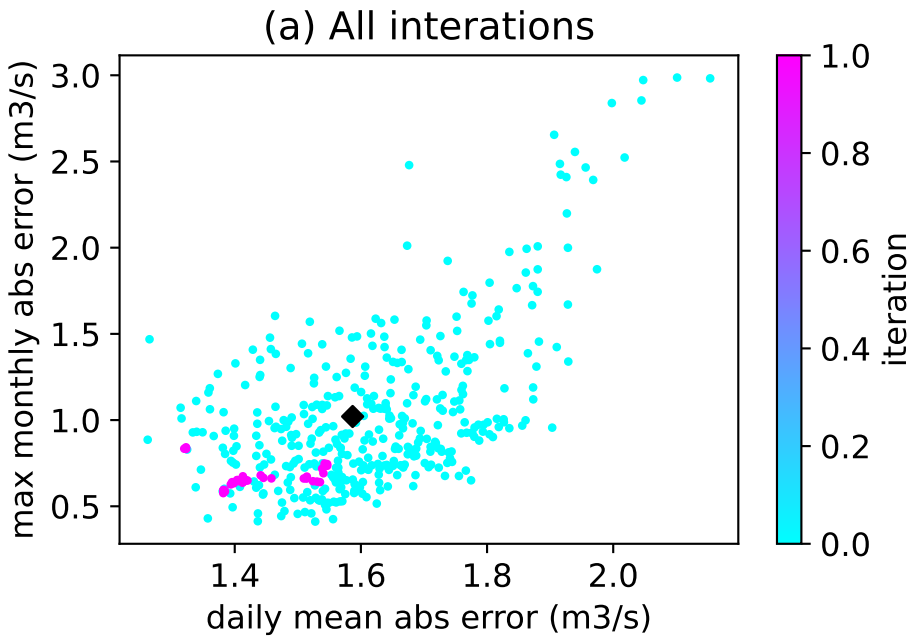
basinid: 399
hru_id: 7359610
lat_cen: 34.44378
lon_cen: -93.70034
AREA: 342.44 km2
elev_mean: 300.58 m

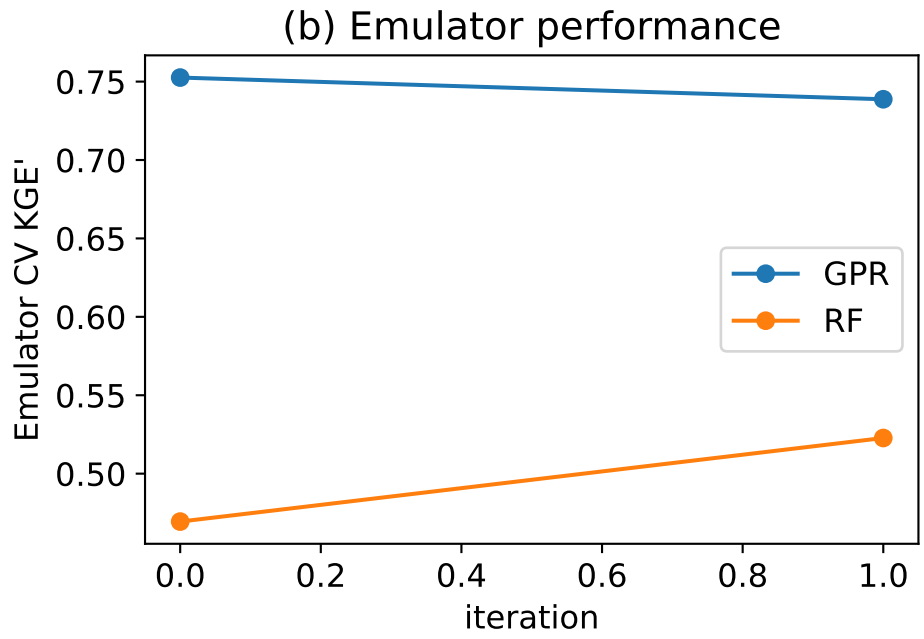


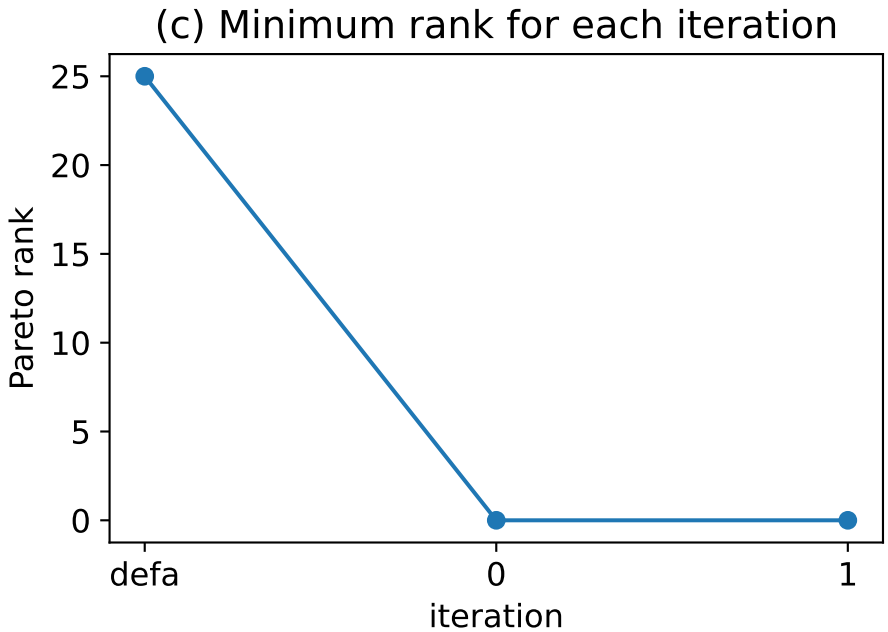




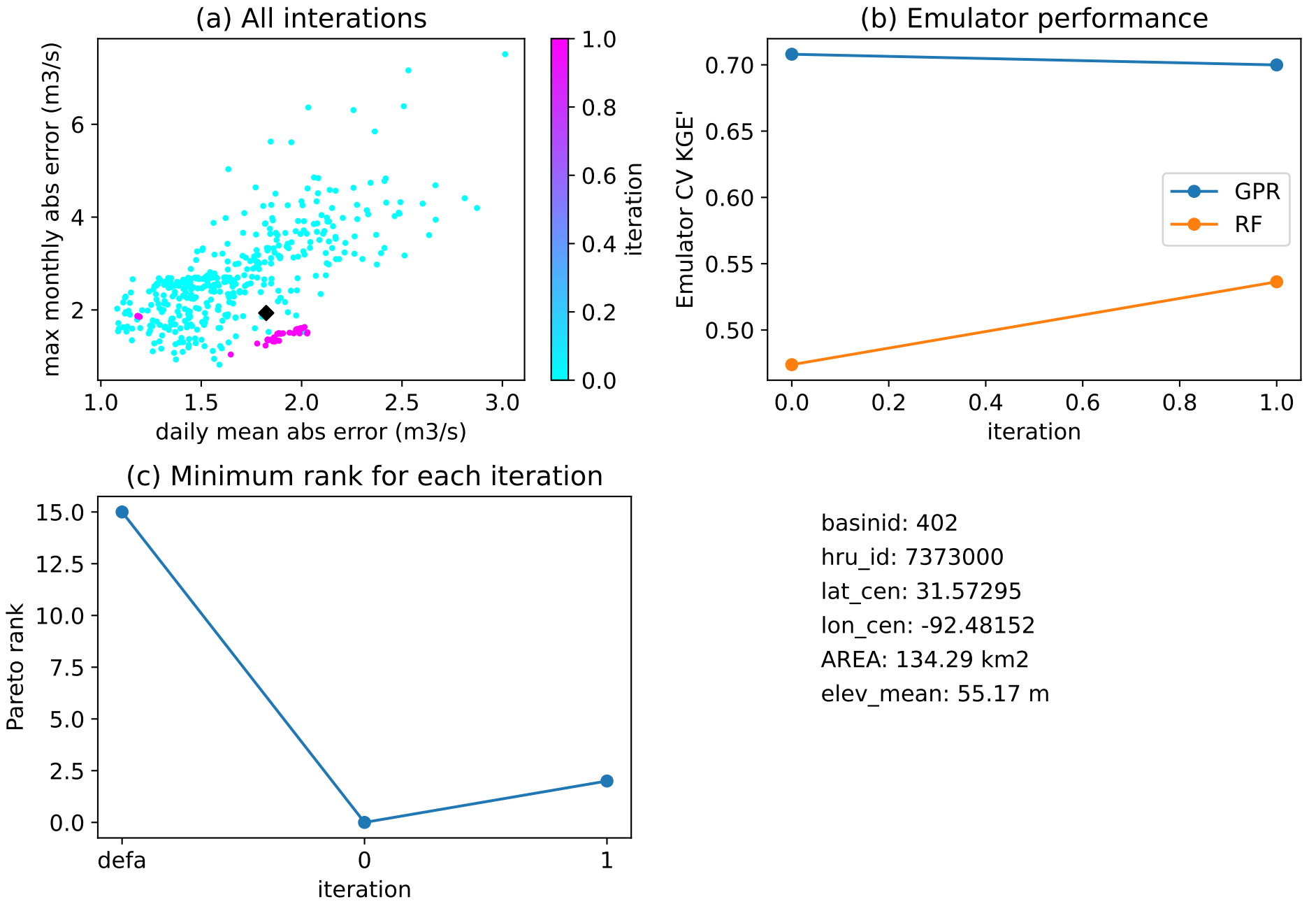
basinid: 400
hru_id: 7362100
lat_cen: 33.38465
lon_cen: -92.98727
AREA: 996.76 km2
elev_mean: 71.54 m

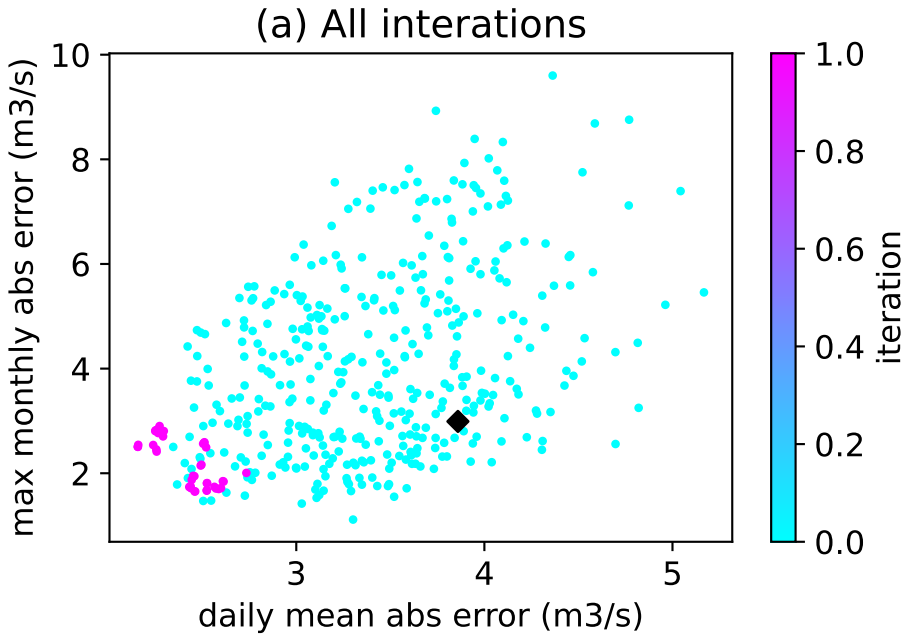


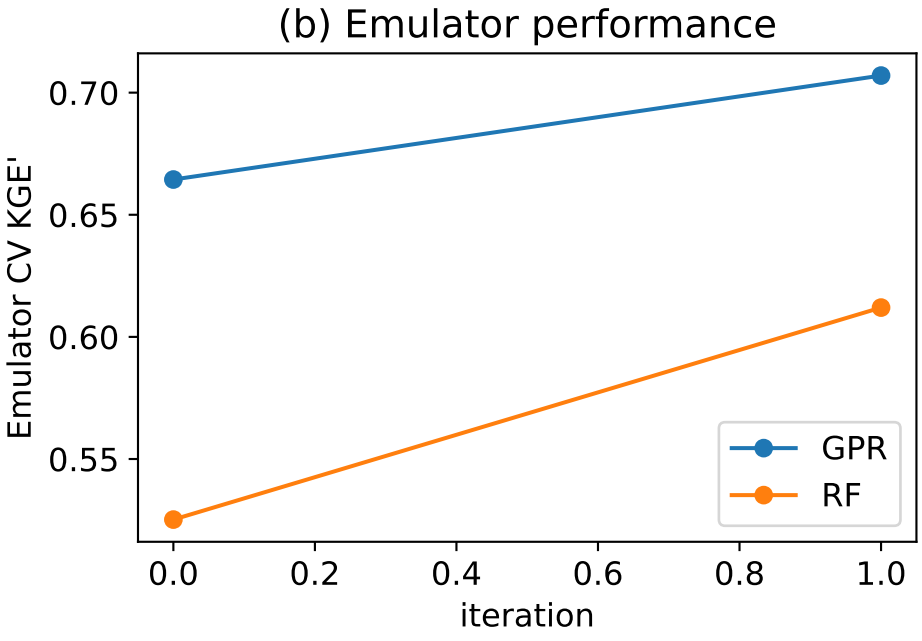


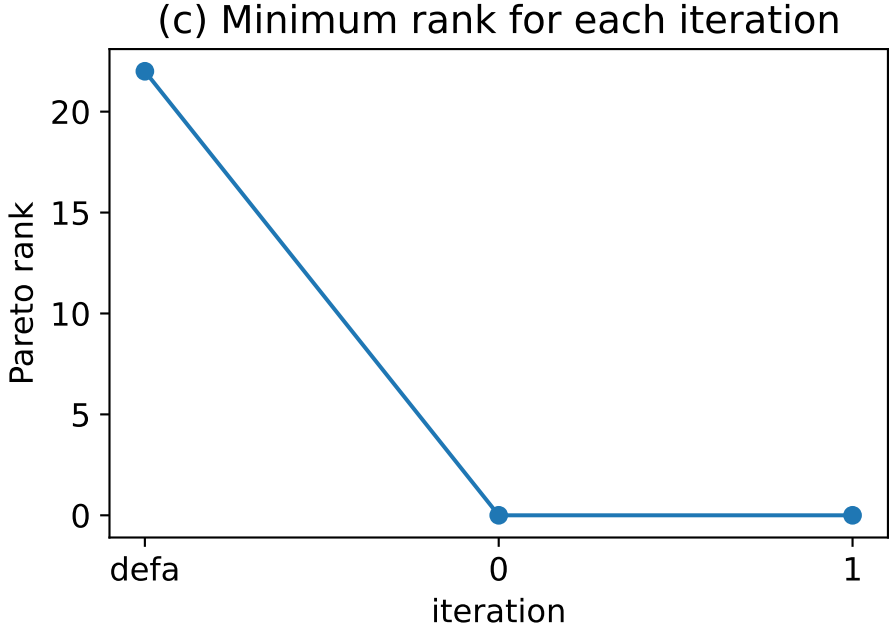


basinid: 401
hru_id: 7362587
lat_cen: 34.80462
lon_cen: -92.99225
AREA: 70.92 km2
elev_mean: 347.14 m

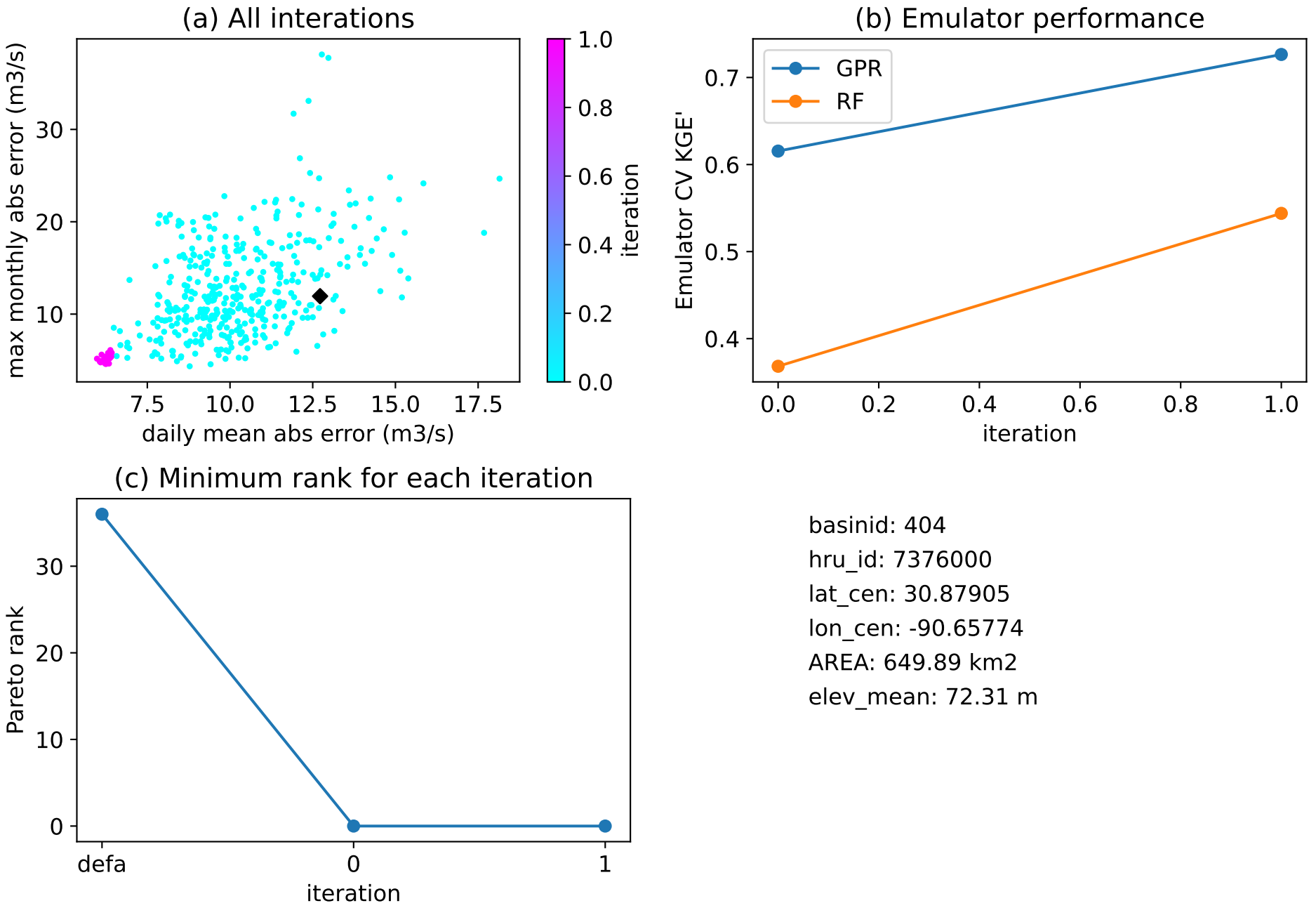

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 402
hru_id: 7373000
lat_cen: 31.57295
lon_cen: -92.48152
AREA: 134.29 km2
elev_mean: 55.17 m

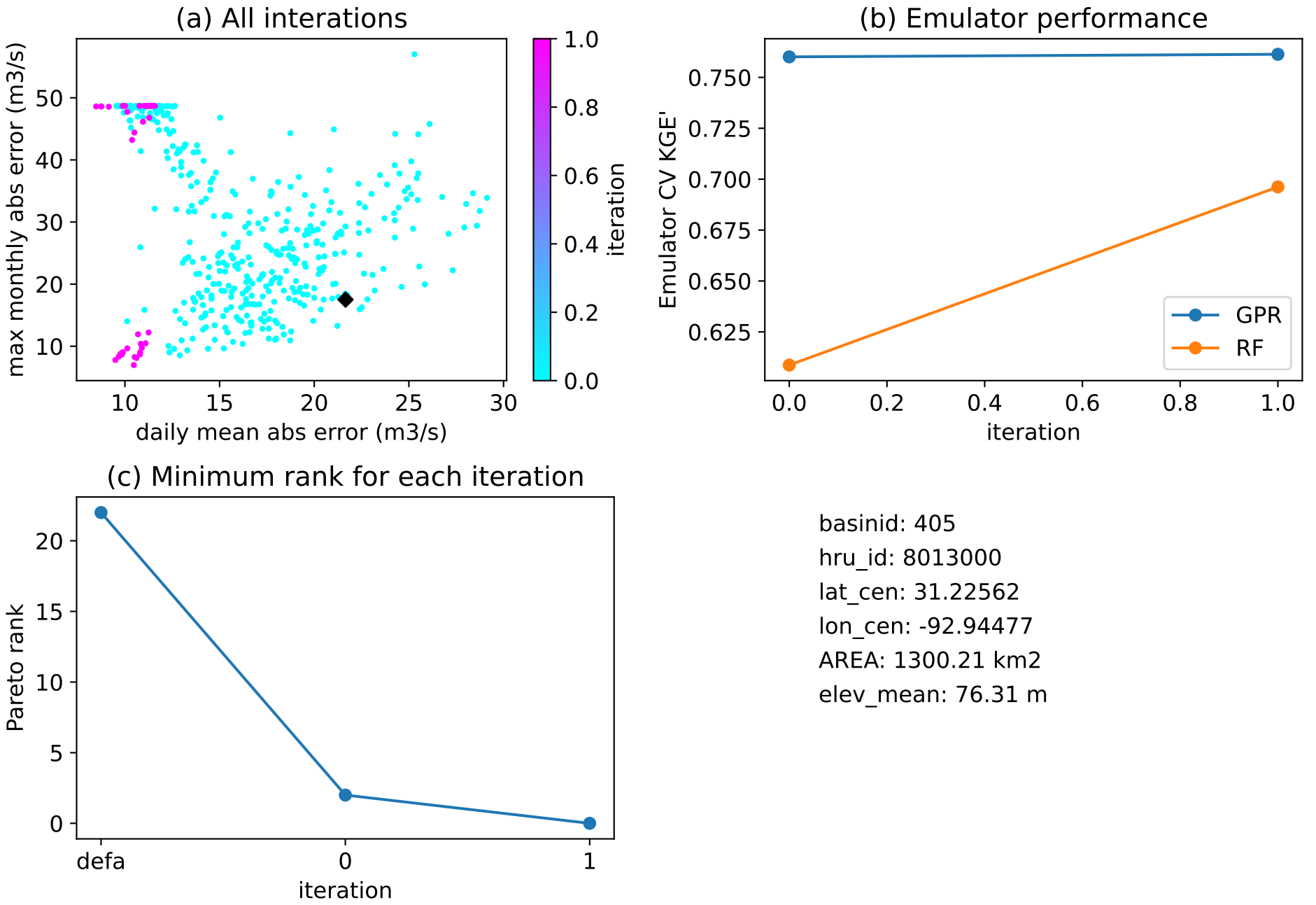


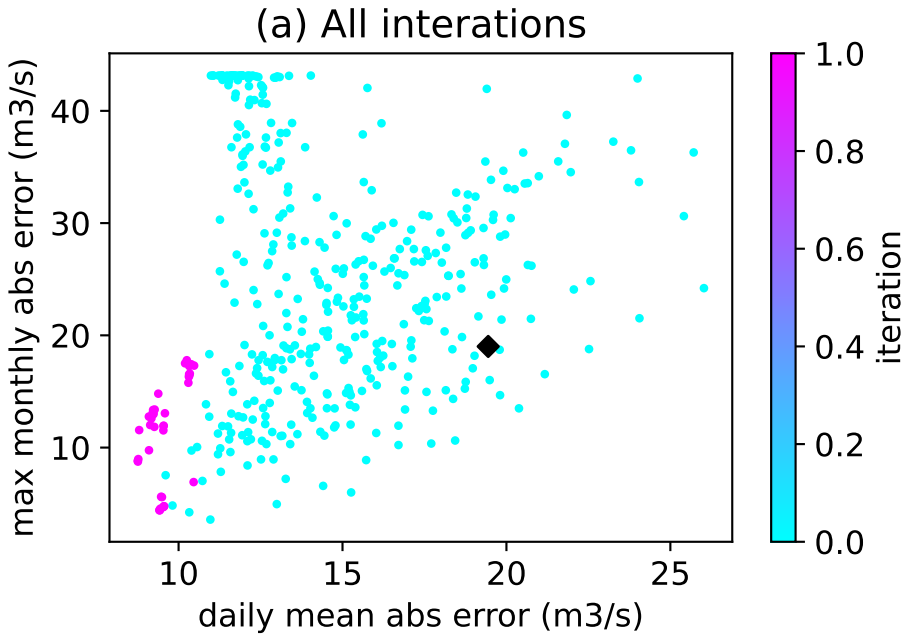


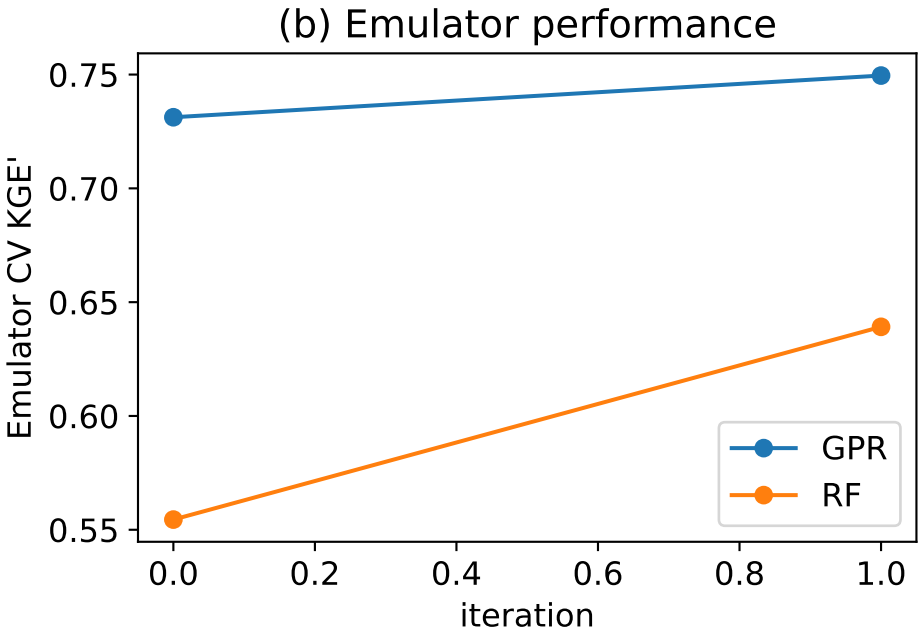


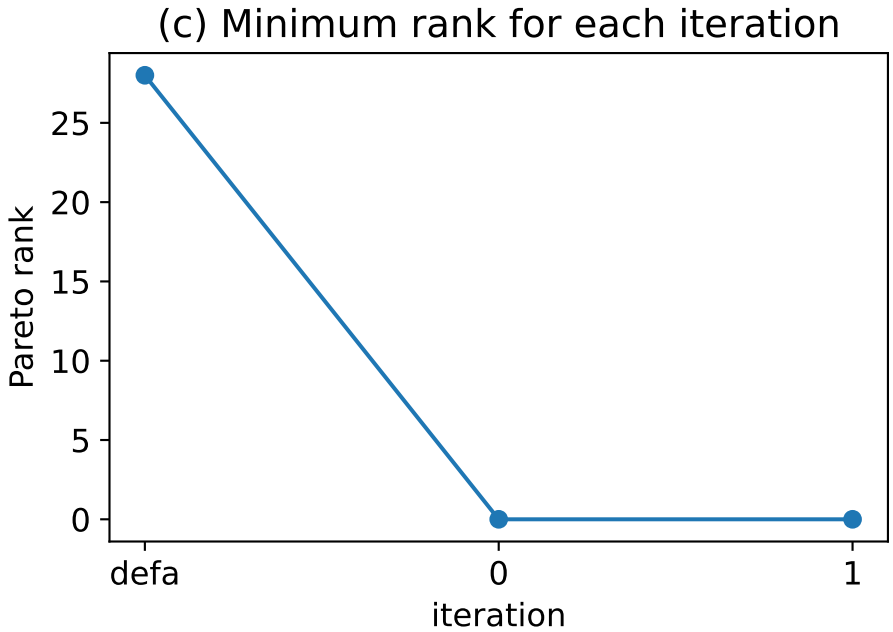
basinid: 403
hru_id: 7375000
lat_cen: 30.77443
lon_cen: -90.26352
AREA: 253.30 km2
elev_mean: 58.87 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 404
hru_id: 7376000
lat_cen: 30.87905
lon_cen: -90.65774
AREA: 649.89 km2
elev_mean: 72.31 m

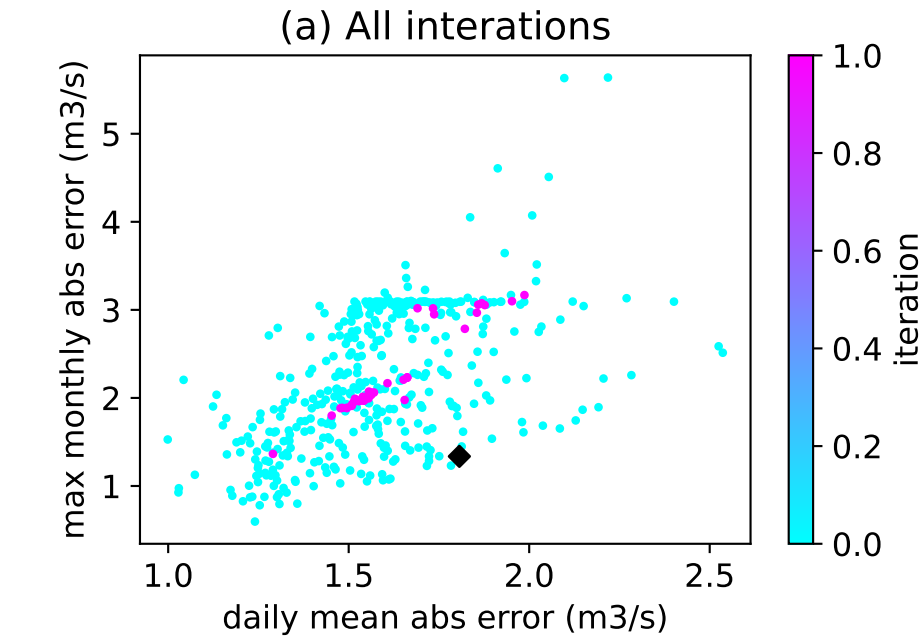

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 405
hru_id: 8013000
lat_cen: 31.22562
lon_cen: -92.94477
AREA: 1300.21 km2
elev_mean: 76.31 m

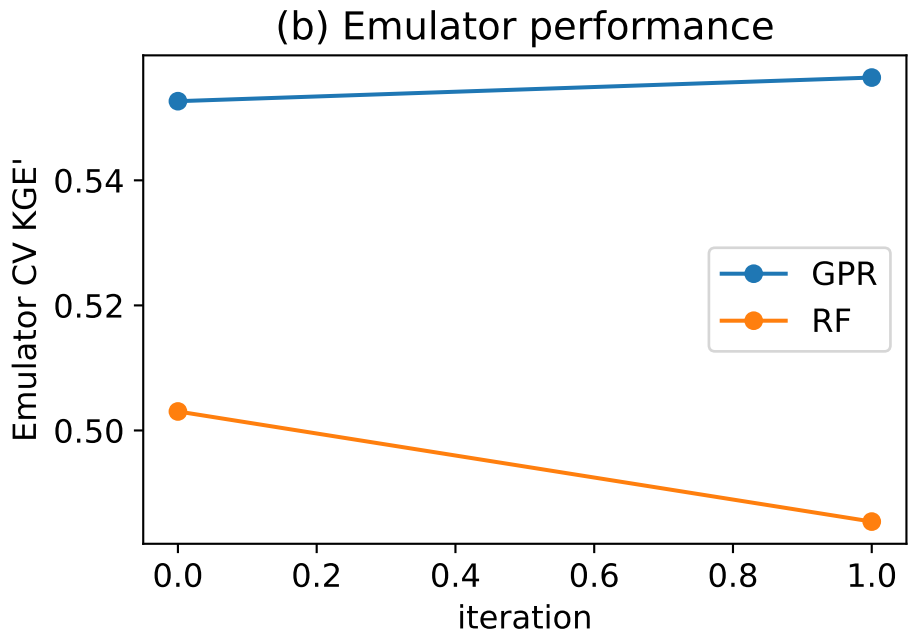


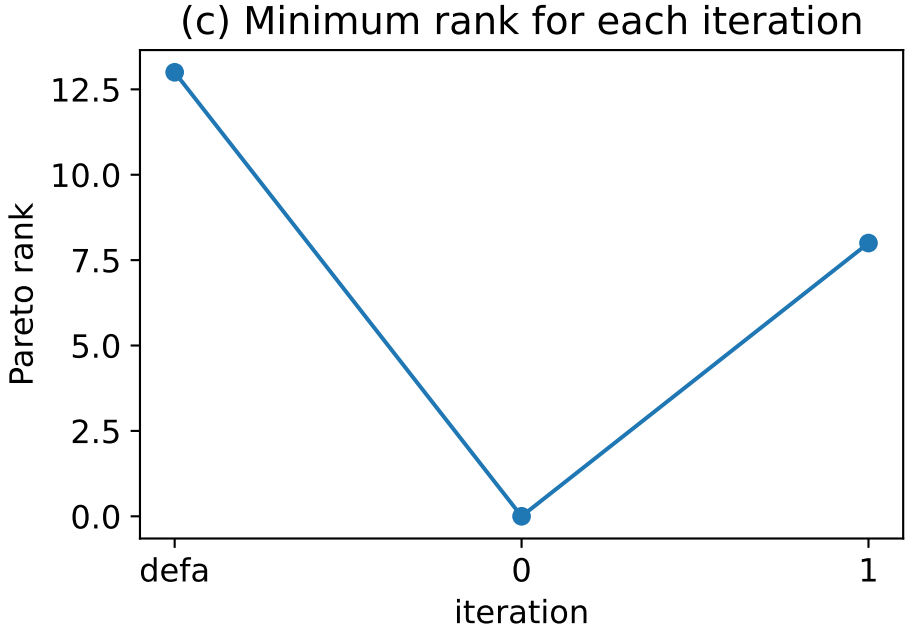




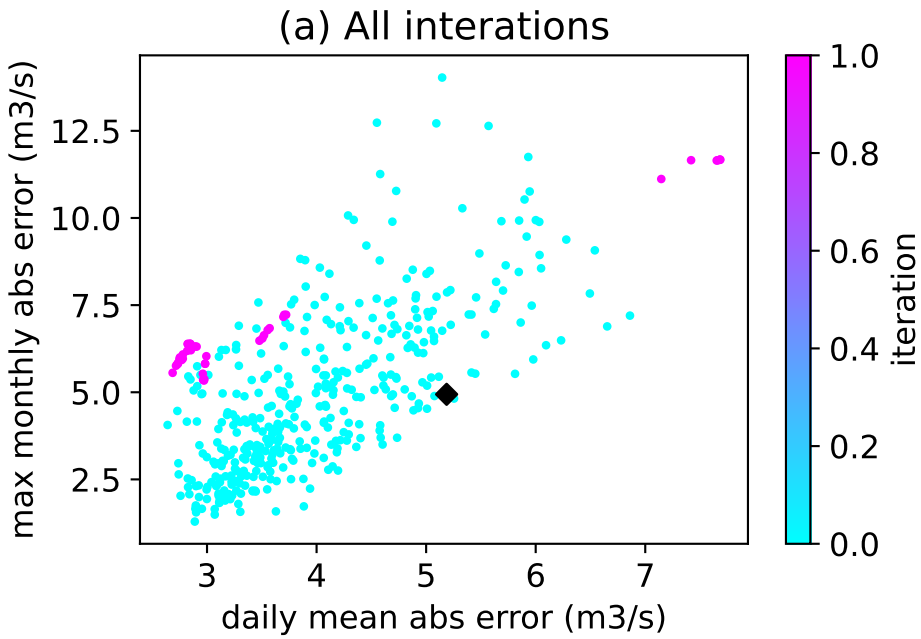
basinid: 406
hru_id: 8014500
lat_cen: 30.94477
lon_cen: -92.98258
AREA: 1325.05 km2
elev_mean: 60.36 m

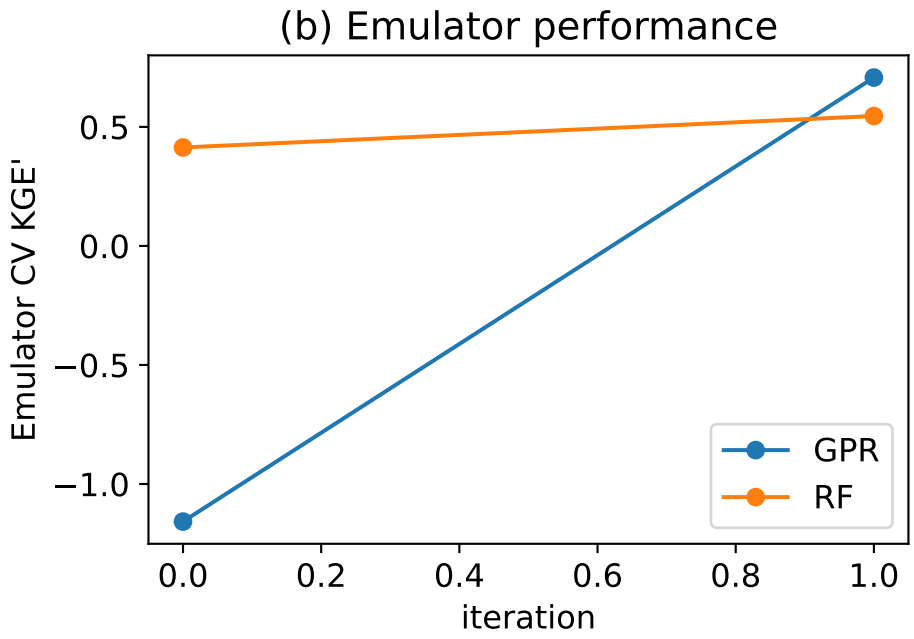


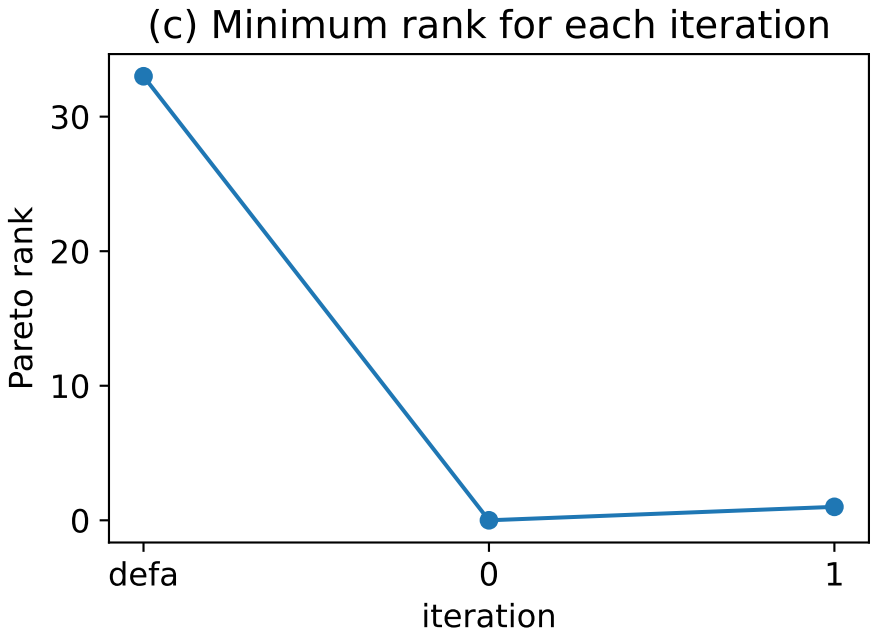




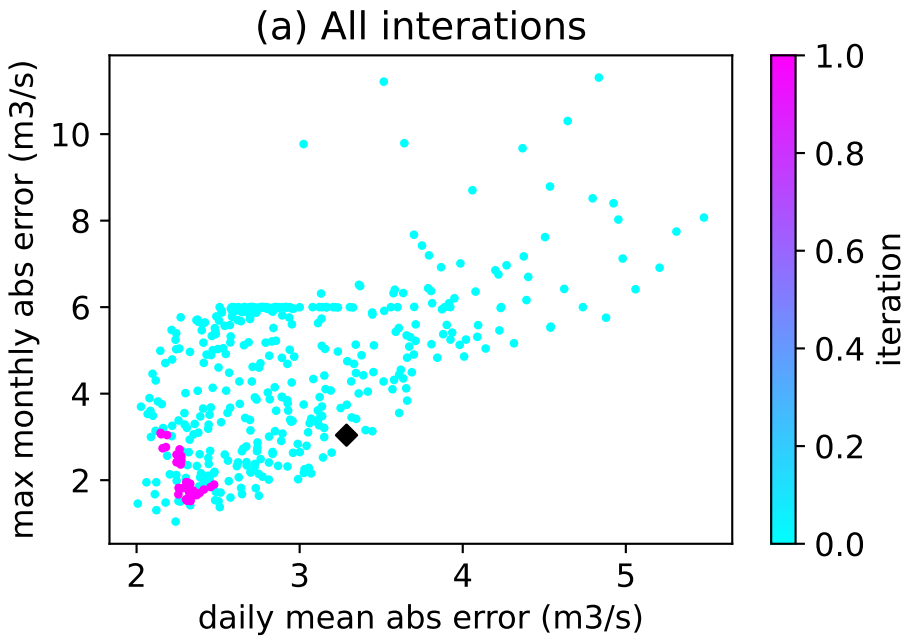
basinid: 407
hru_id: 8023080
lat_cen: 32.04207
lon_cen: -93.85781
AREA: 198.91 km2
elev_mean: 83.08 m

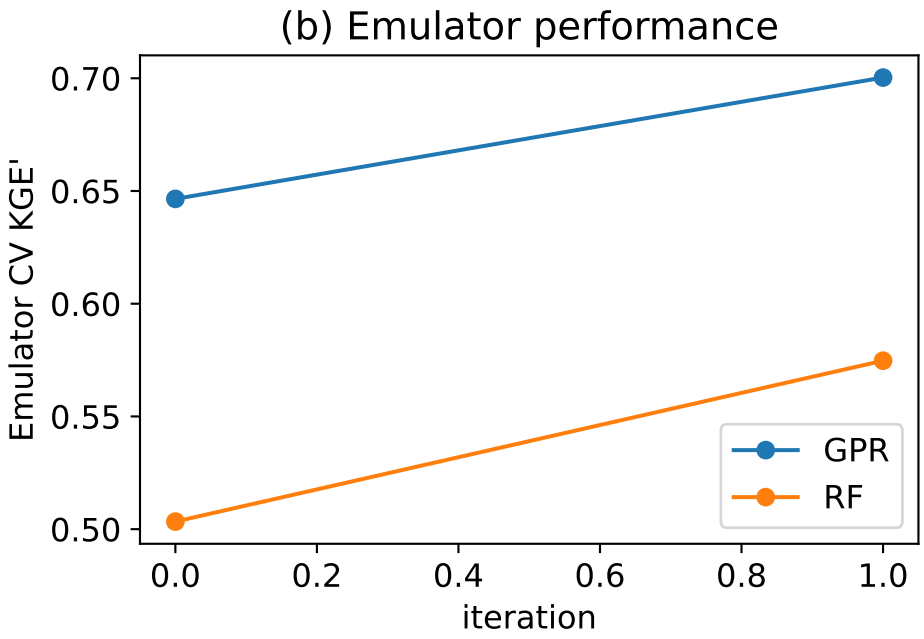


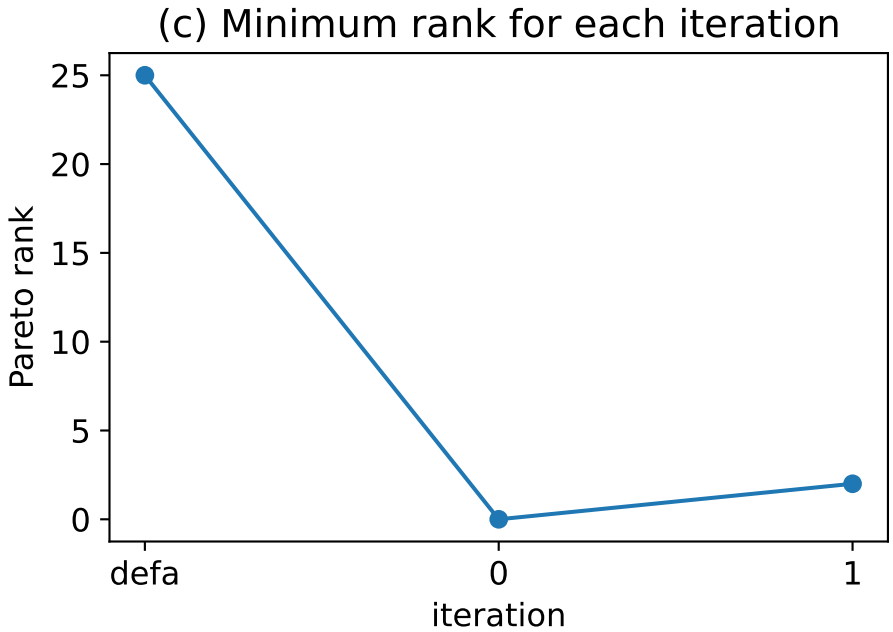




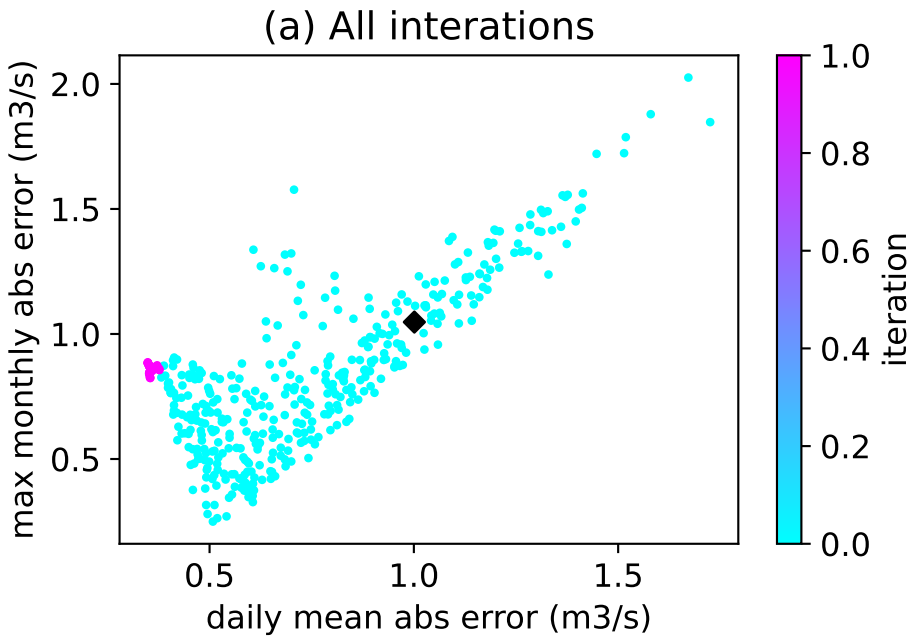
basinid: 408
hru_id: 8025500
lat_cen: 31.42961
lon_cen: -93.4347
AREA: 382.75 km2
elev_mean: 89.71 m

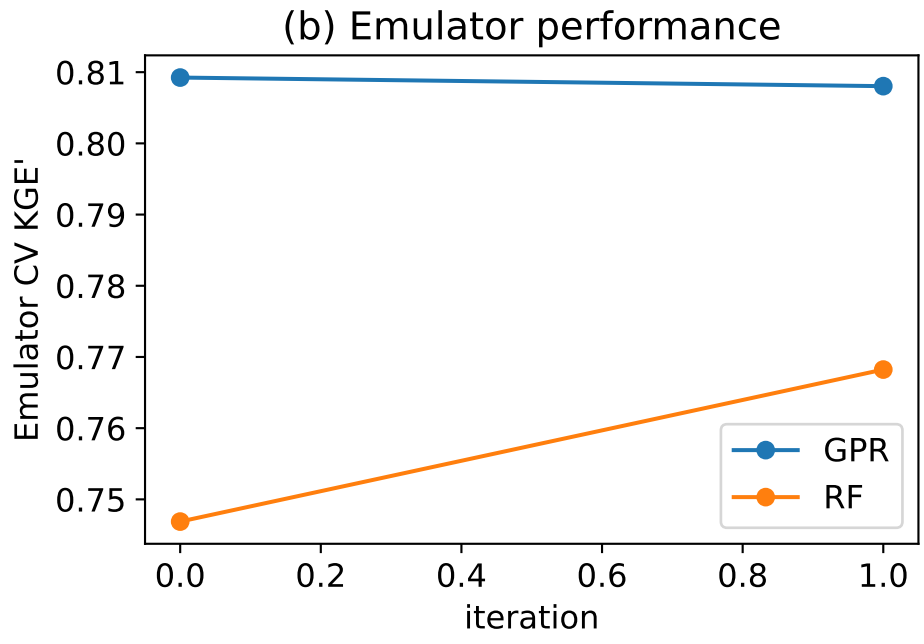


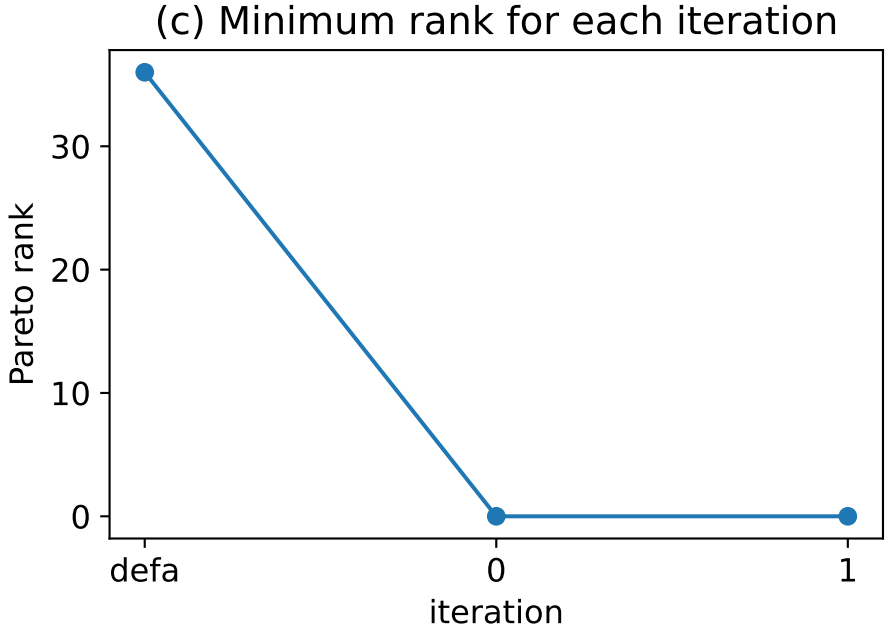




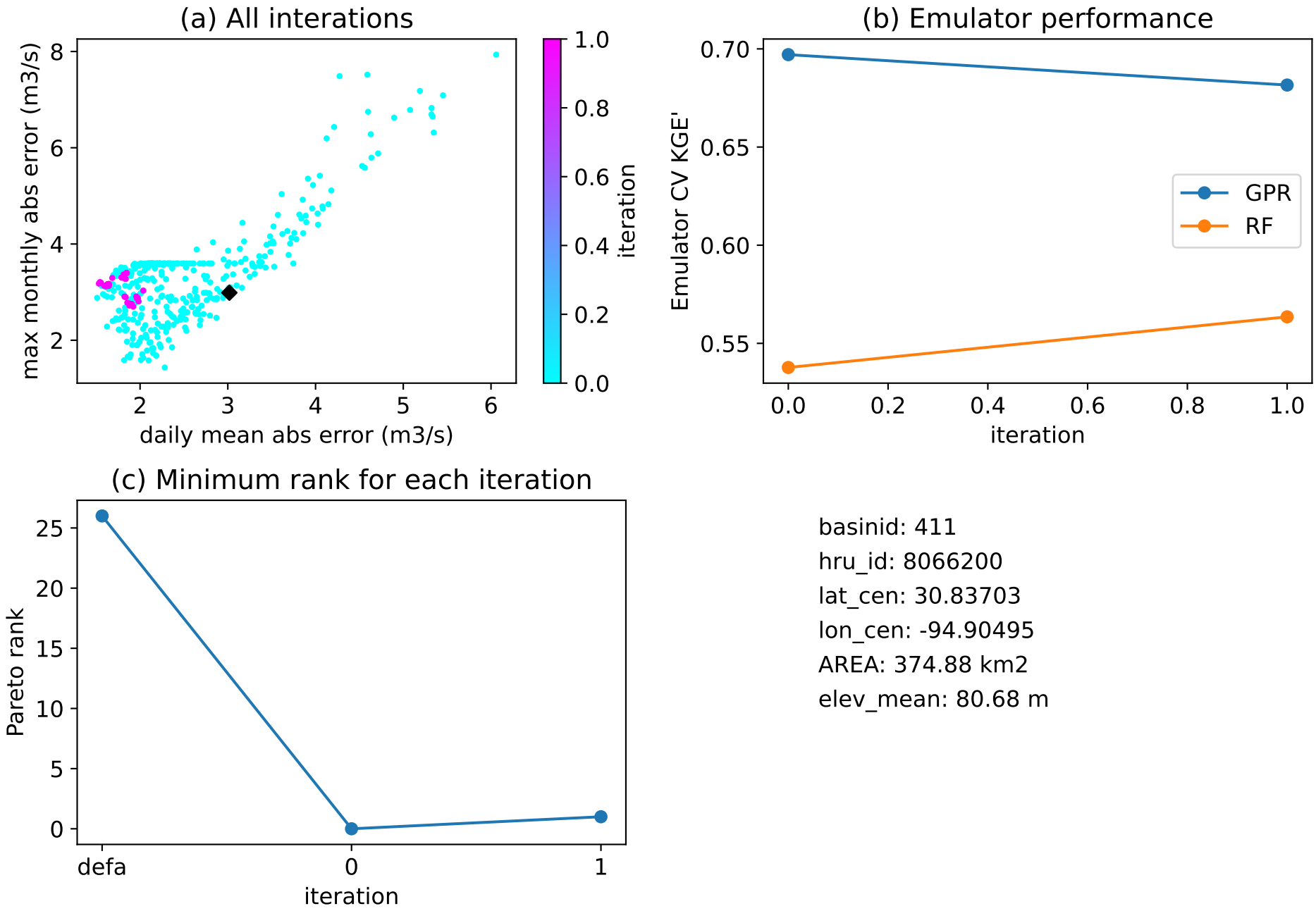
basinid: 409
hru_id: 8029500
lat_cen: 30.9381
lon_cen: -93.84996
AREA: 384.22 km2
elev_mean: 92.69 m

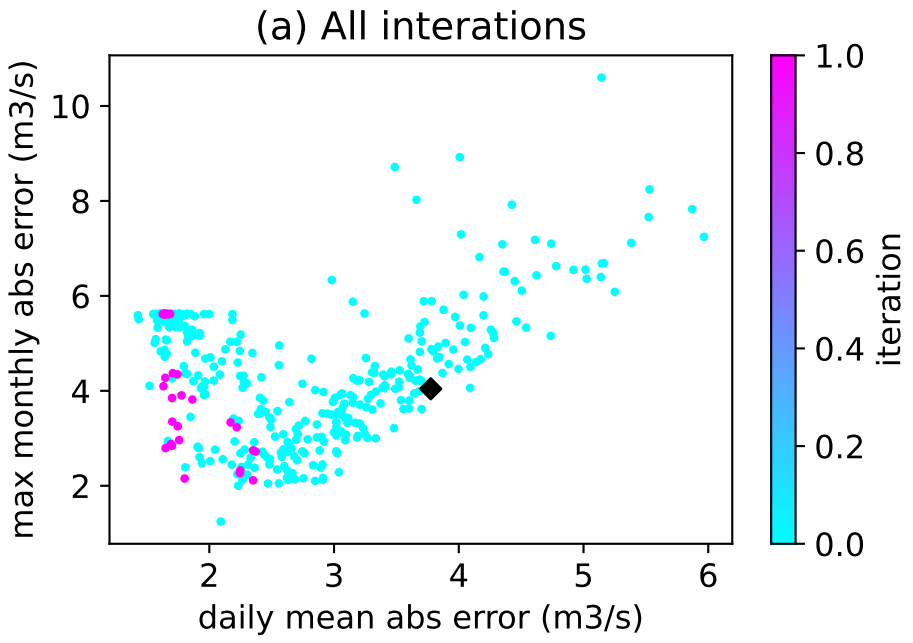


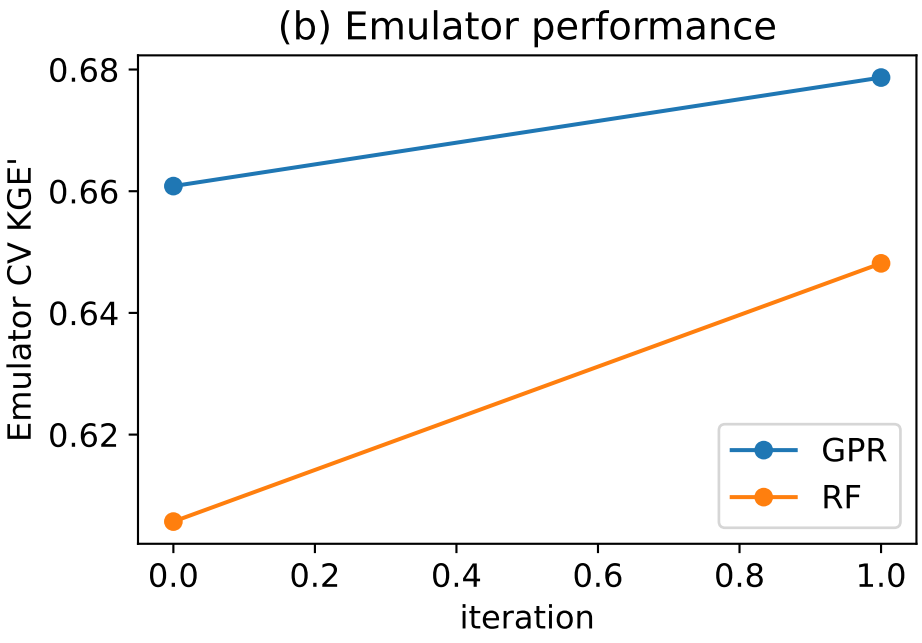


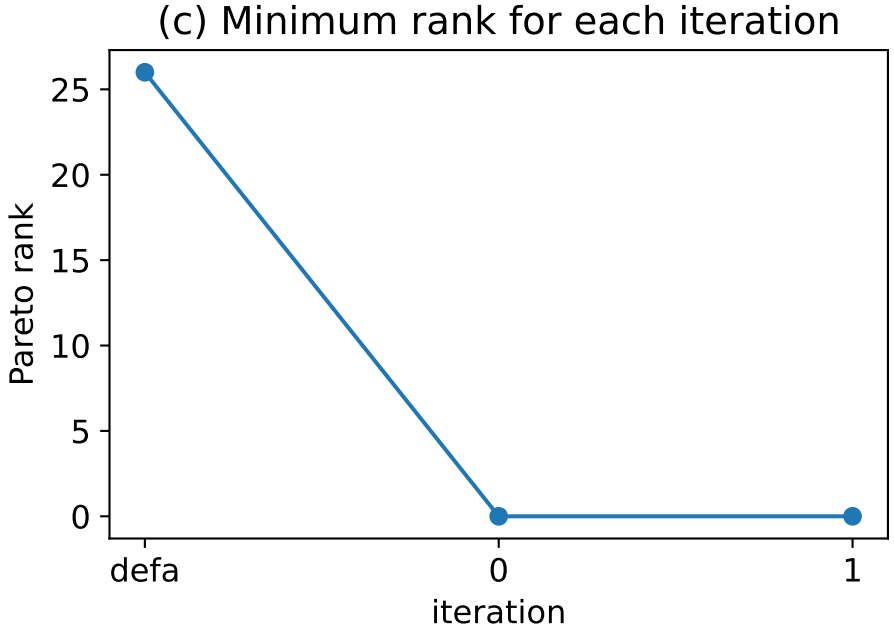


basinid: 410
hru_id: 8050800
lat_cen: 33.62622
lon_cen: -96.98462
AREA: 109.21 km2
elev_mean: 236.14 m

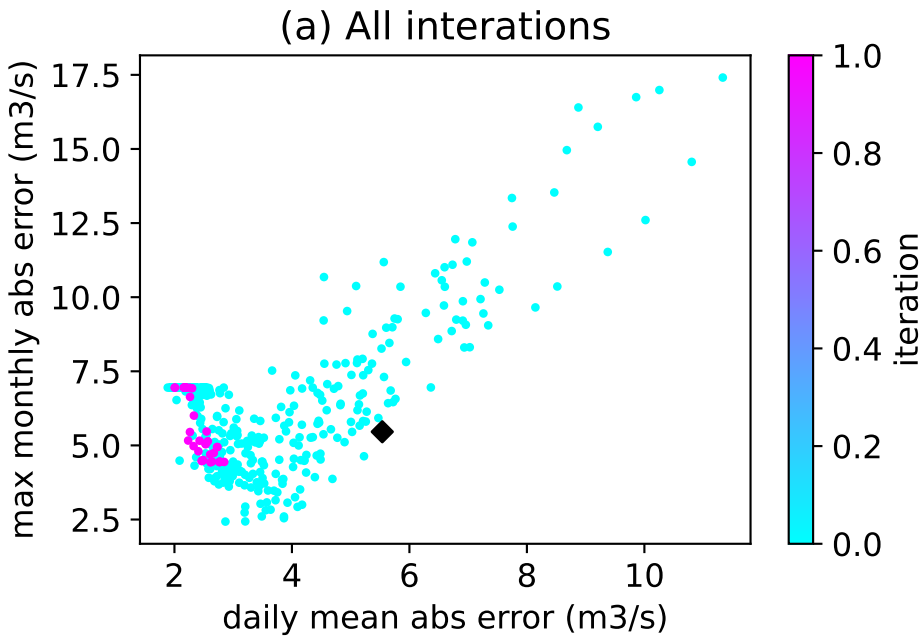

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 411
hru_id: 8066200
lat_cen: 30.83703
lon_cen: -94.90495
AREA: 374.88 km2
elev_mean: 80.68 m

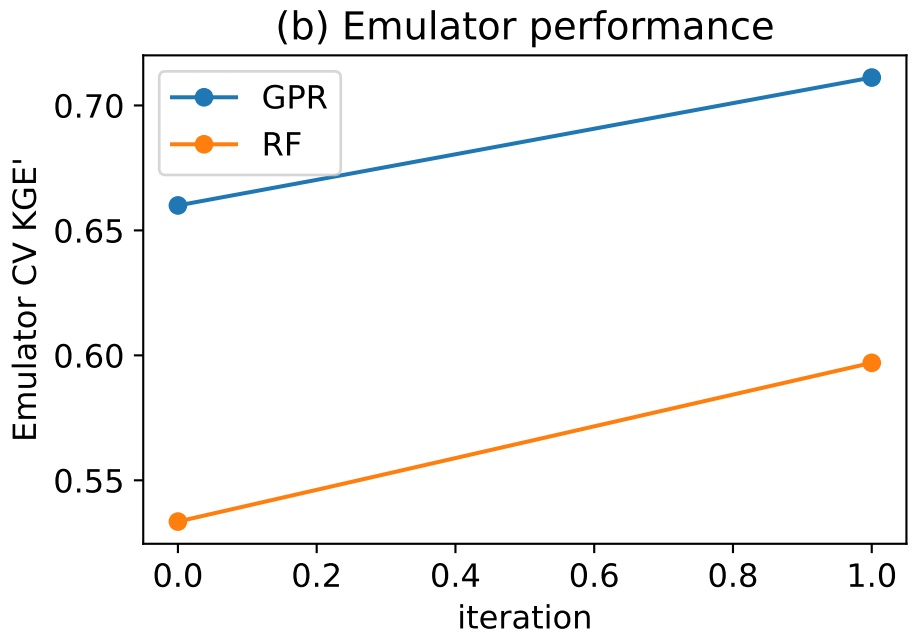


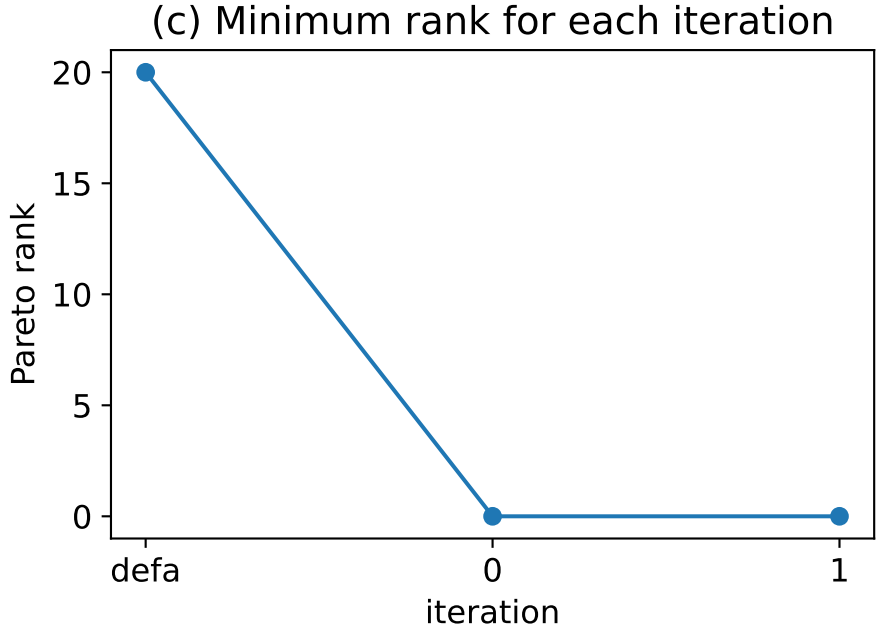




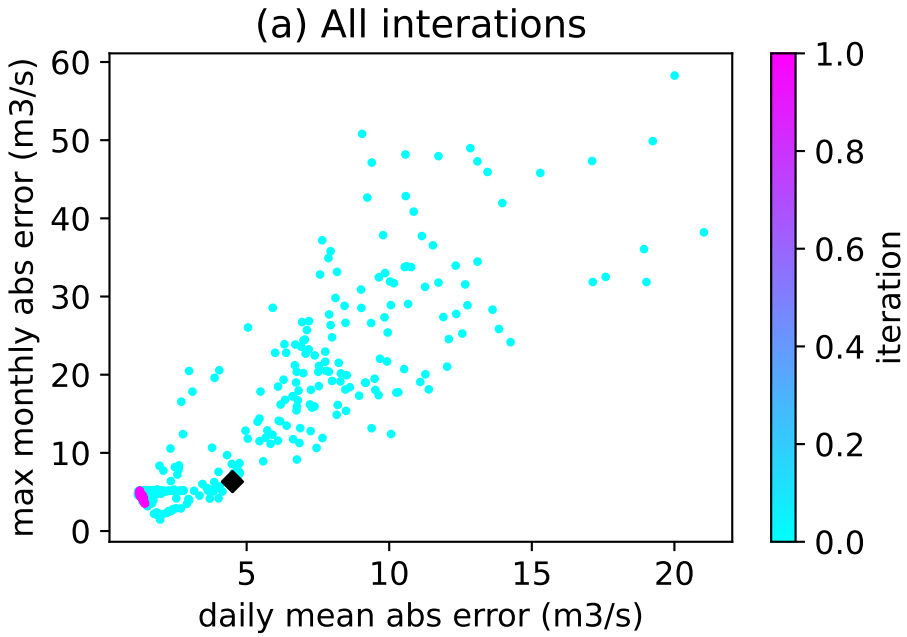
basinid: 412
hru_id: 8066300
lat_cen: 30.60494
lon_cen: -94.77758
AREA: 390.80 km2
elev_mean: 66.75 m

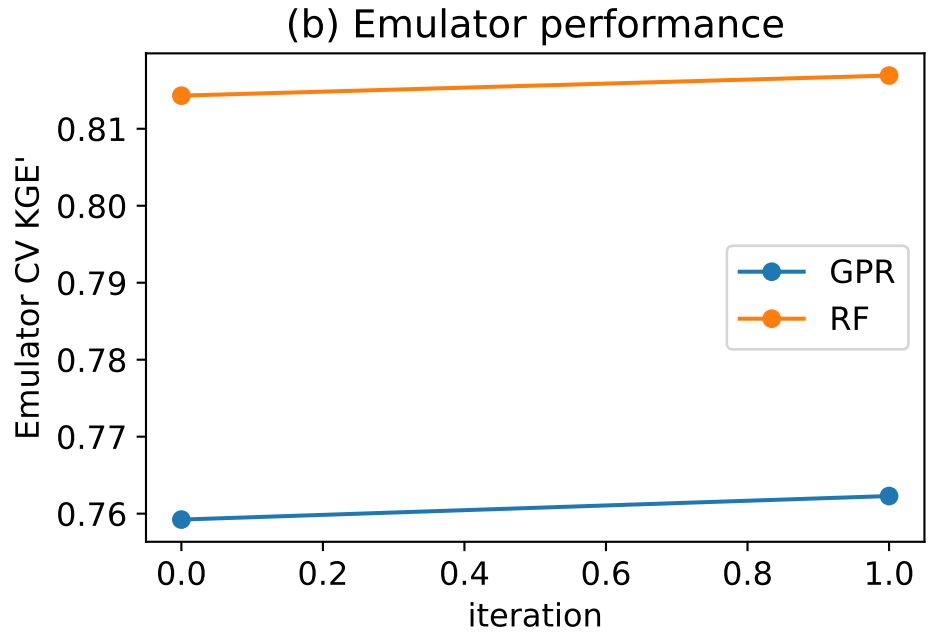


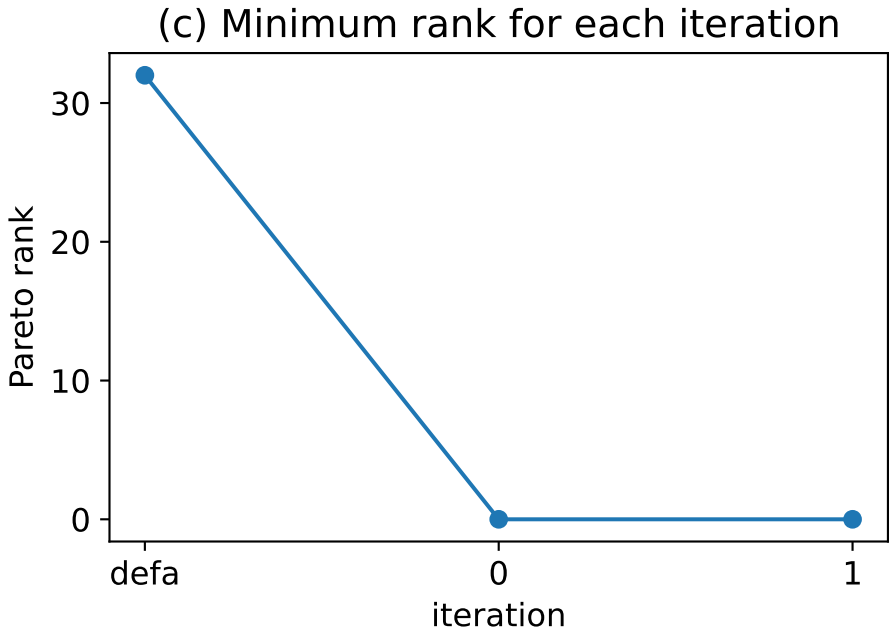




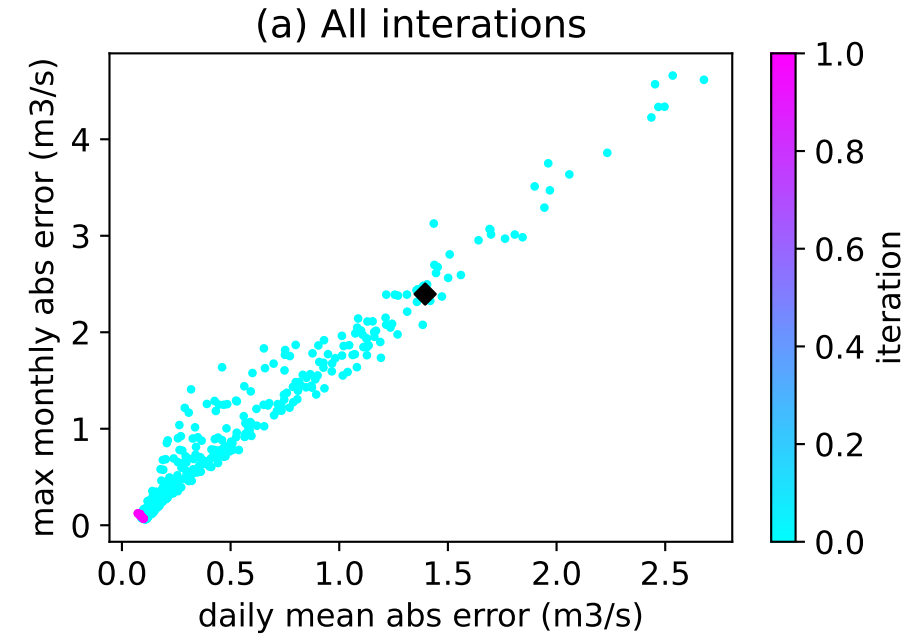
basinid: 413
hru_id: 8070000
lat_cen: 30.58203
lon_cen: -95.29394
AREA: 844.72 km2
elev_mean: 89.34 m

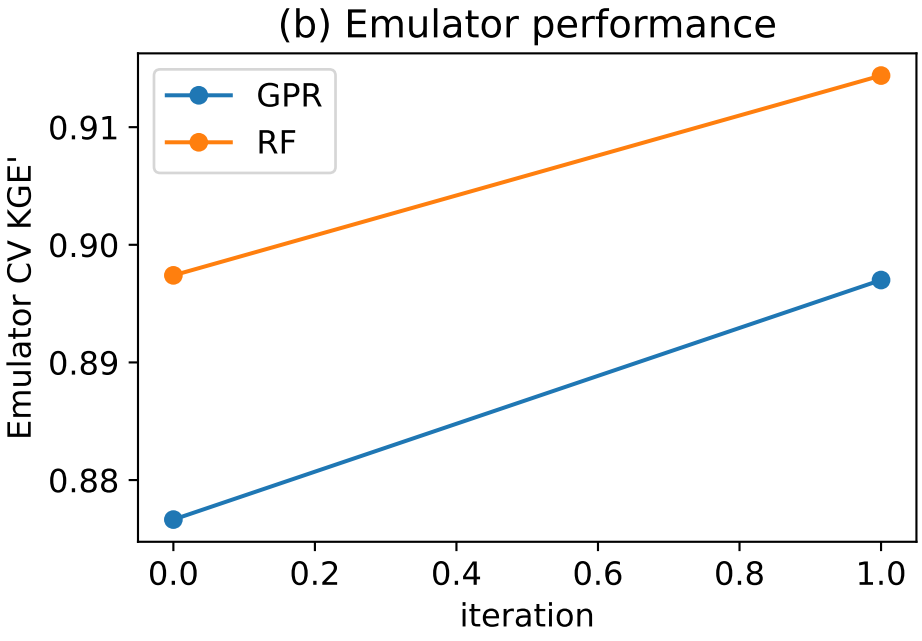


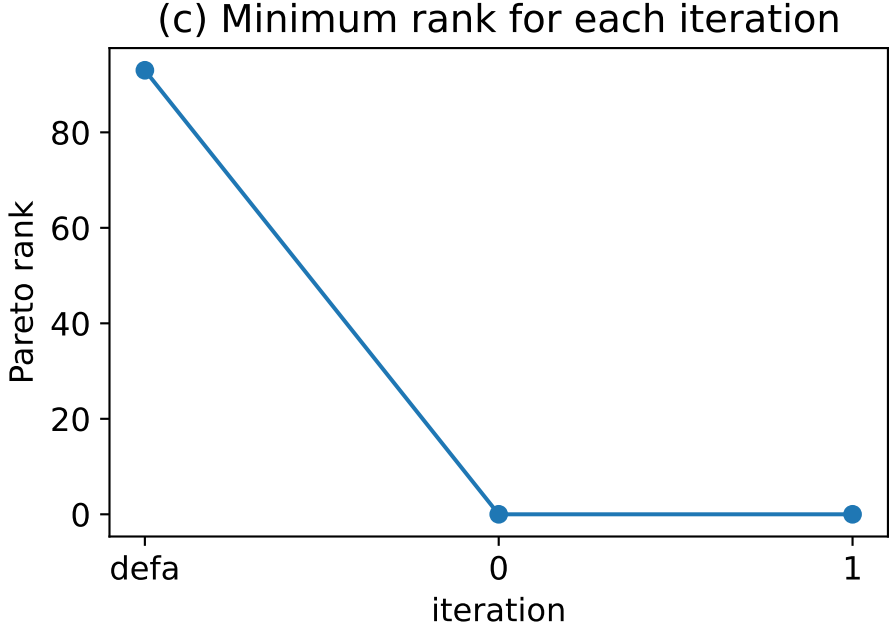




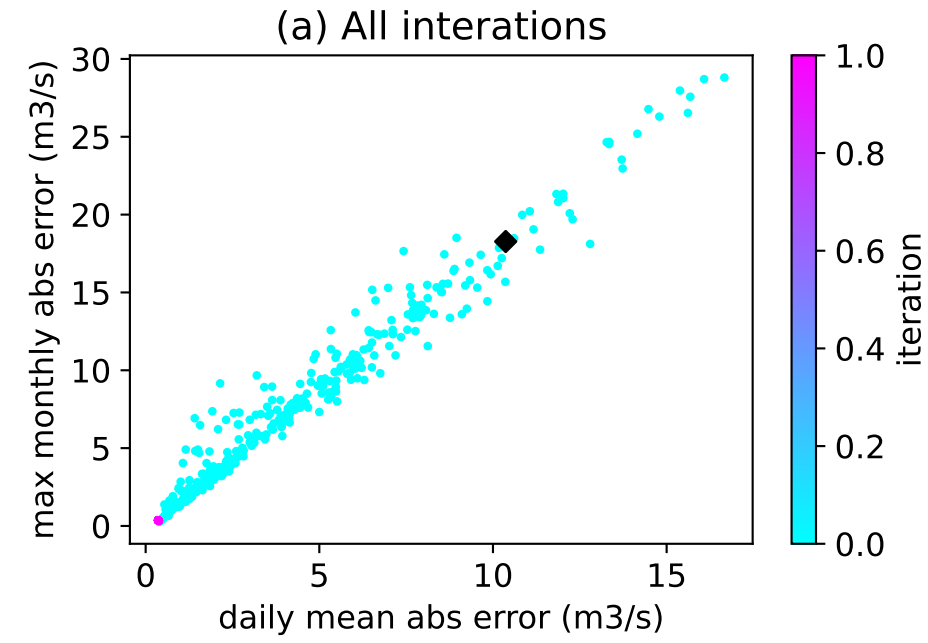
basinid: 414
hru_id: 8079600
lat_cen: 33.24262
lon_cen: -101.85858
AREA: 3512.32 km2
elev_mean: 941.52 m

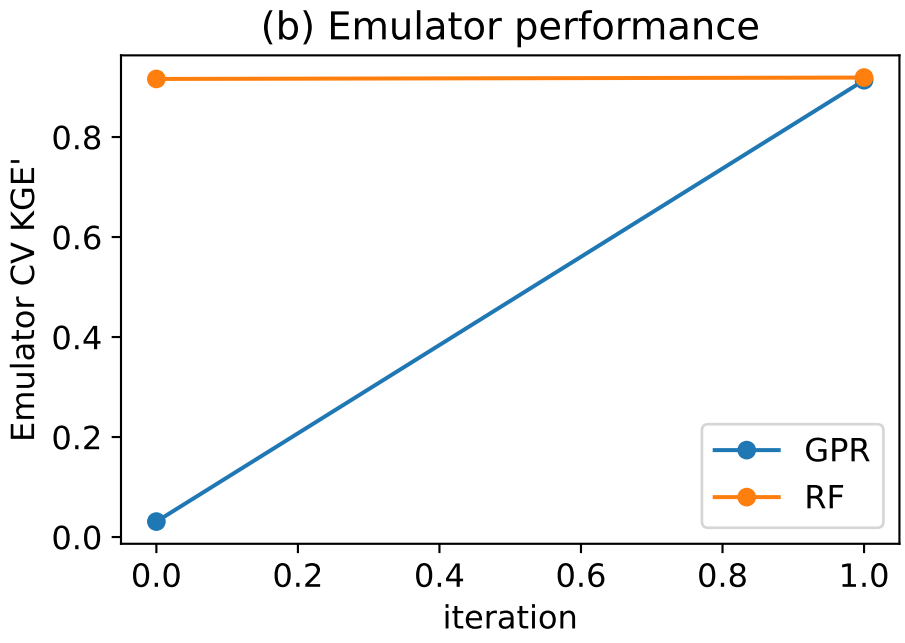


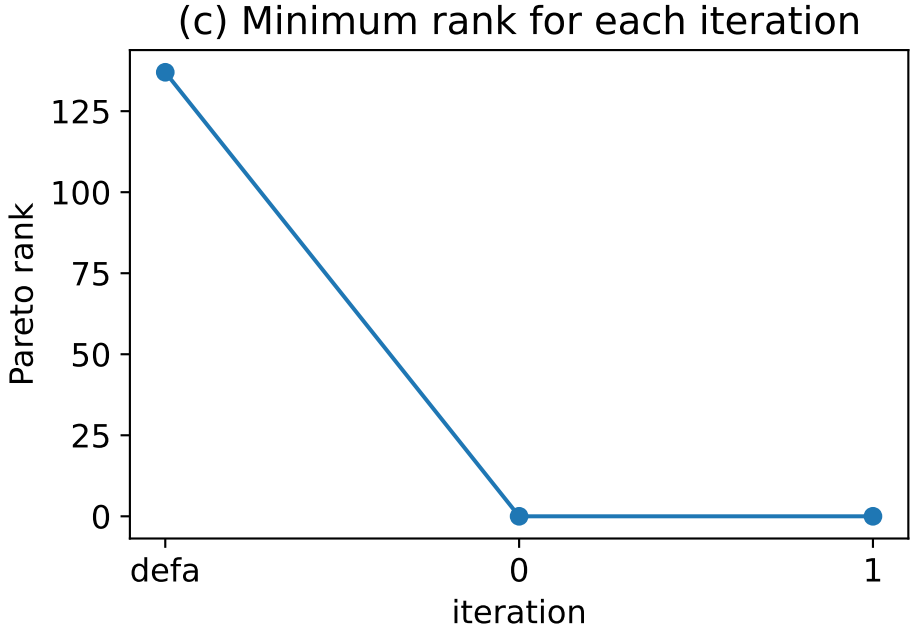




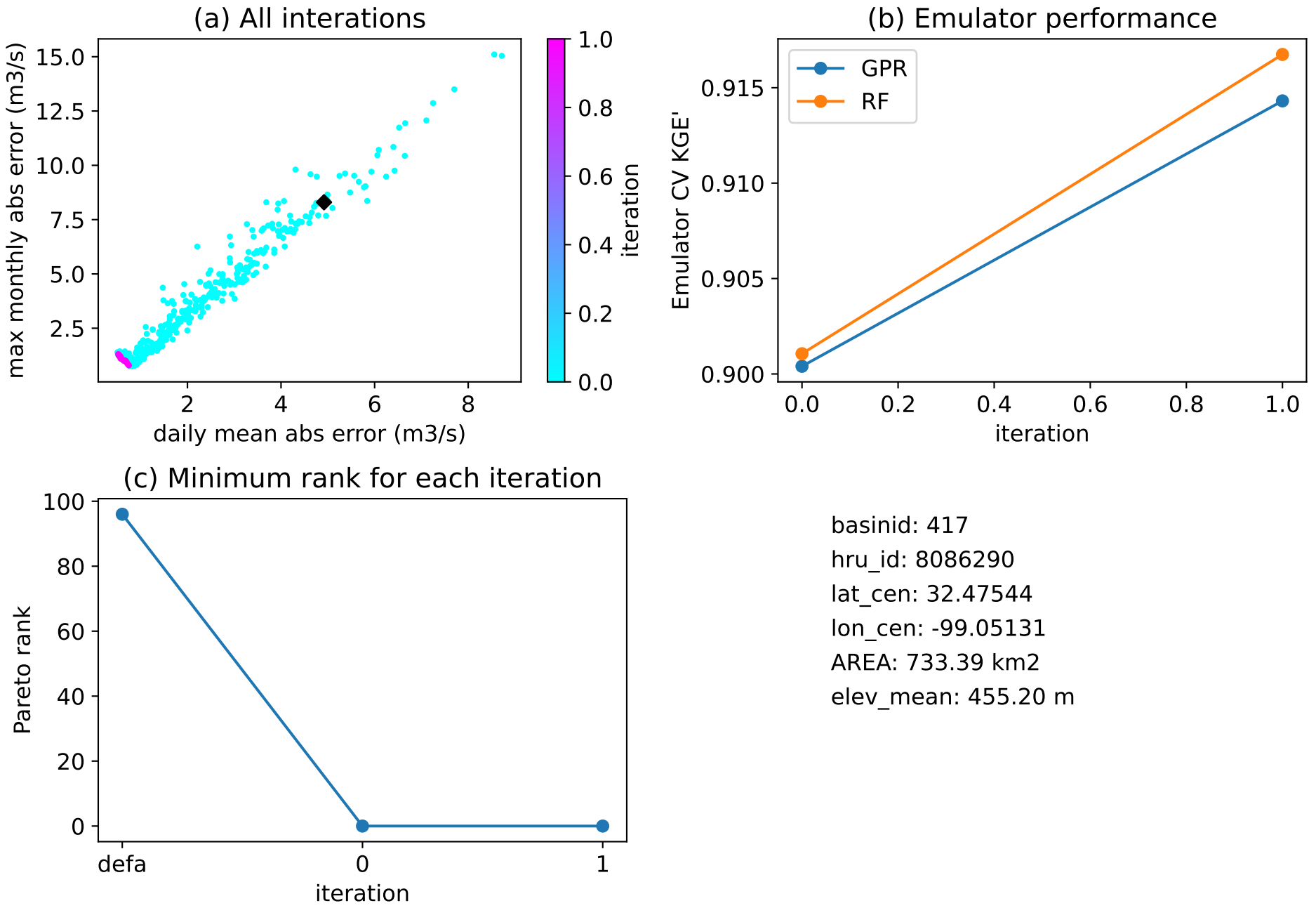
basinid: 415
hru_id: 8082700
lat_cen: 33.27999
lon_cen: -99.58218
AREA: 276.84 km2
elev_mean: 448.48 m

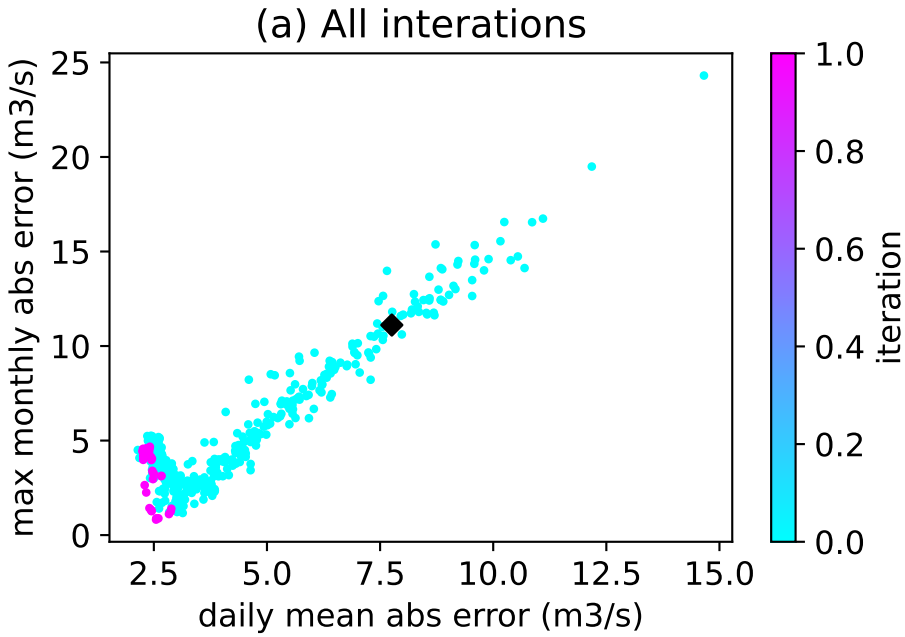


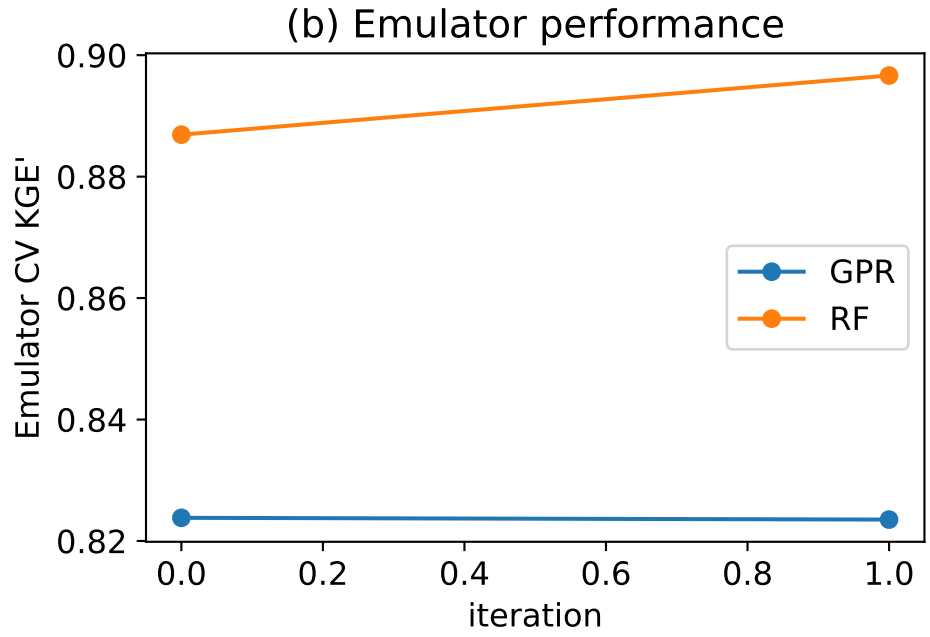


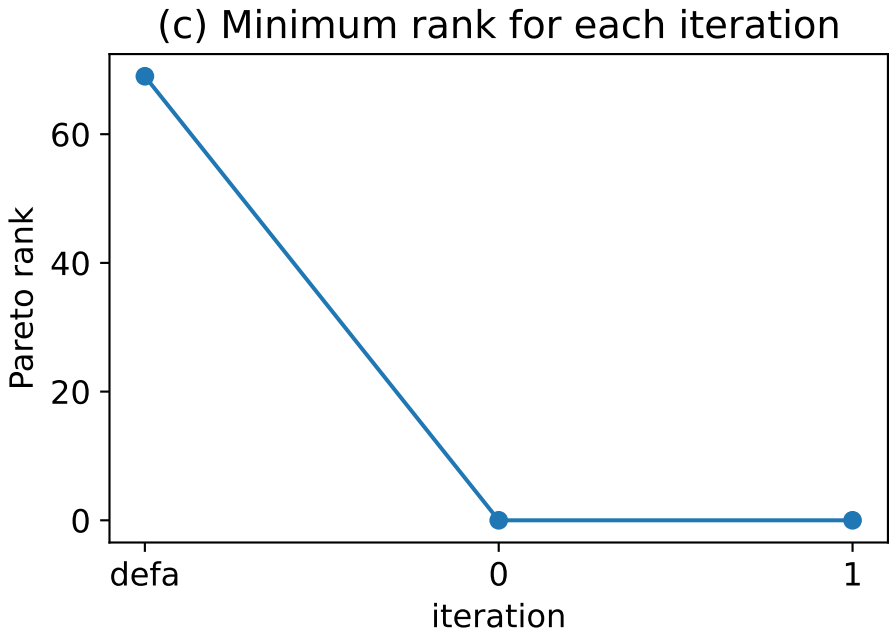


basinid: 416
hru_id: 8086212
lat_cen: 32.52923
lon_cen: -99.29992
AREA: 1590.13 km2
elev_mean: 485.81 m

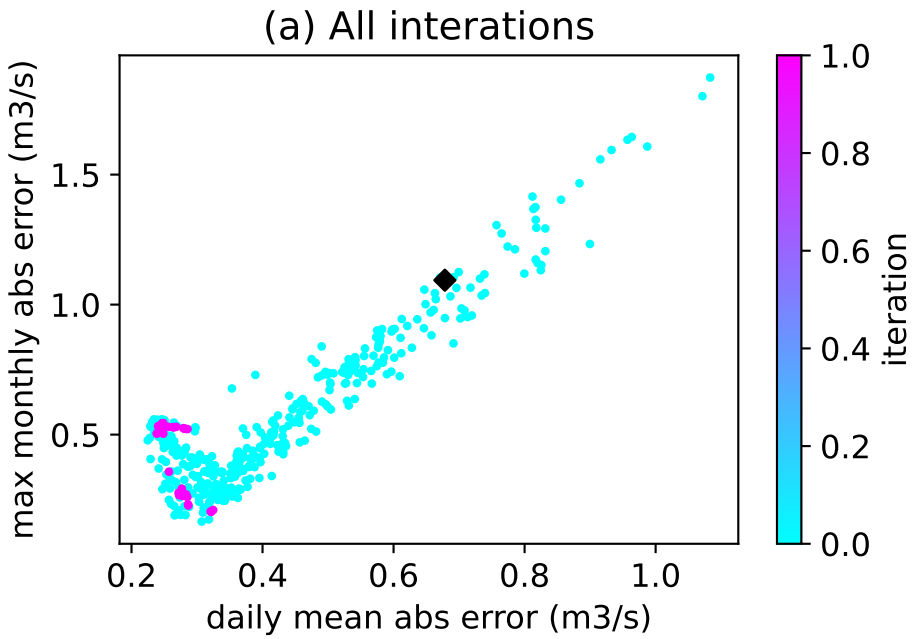

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 417
hru_id: 8086290
lat_cen: 32.47544
lon_cen: -99.05131
AREA: 733.39 km2
elev_mean: 455.20 m

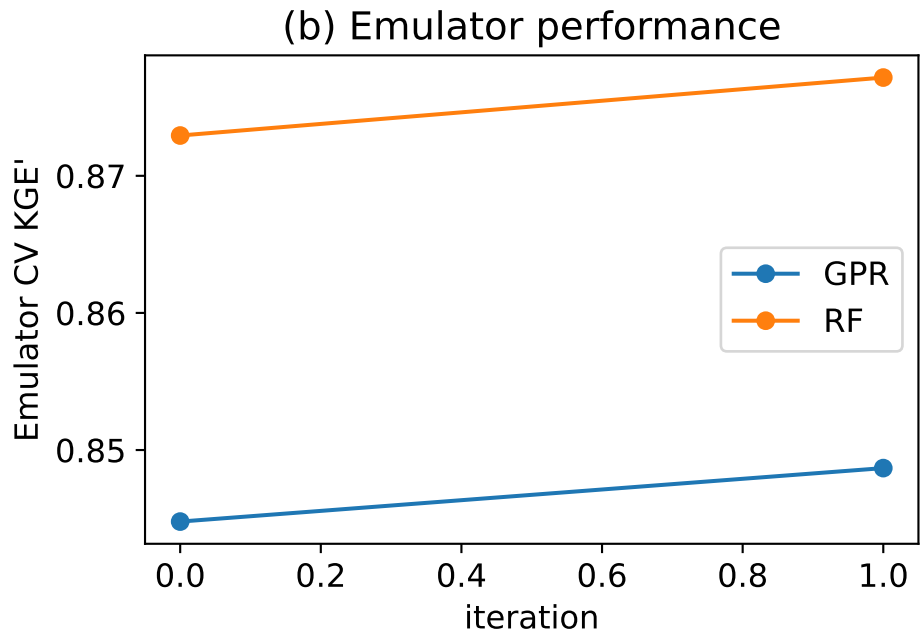


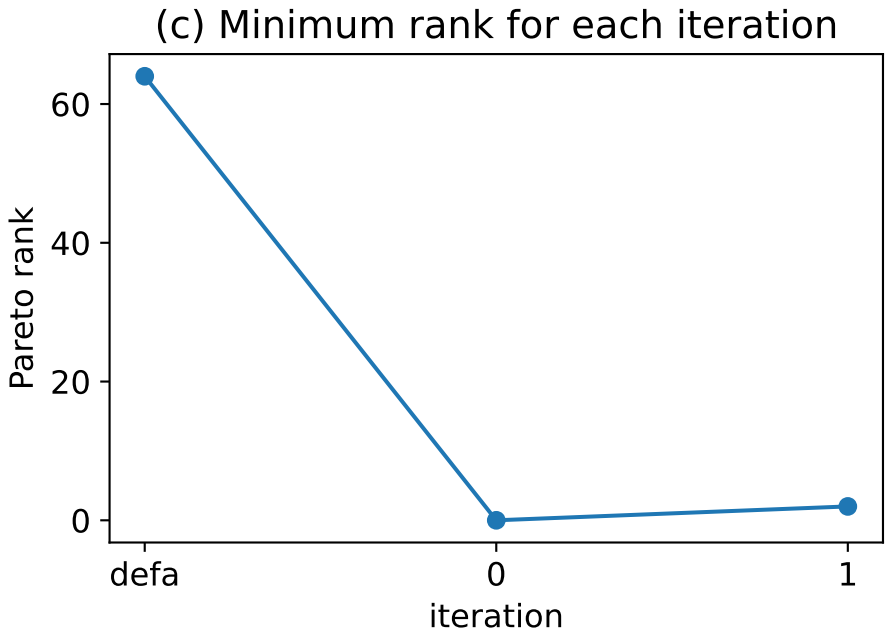




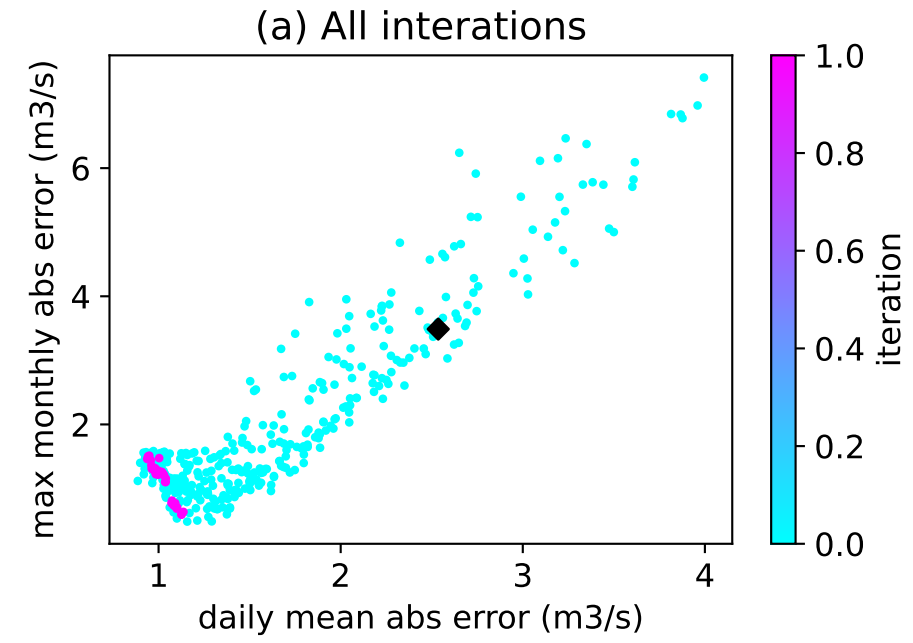
basinid: 418
hru_id: 8101000
lat_cen: 31.50683
lon_cen: -98.15253
AREA: 1184.52 km2
elev_mean: 378.95 m

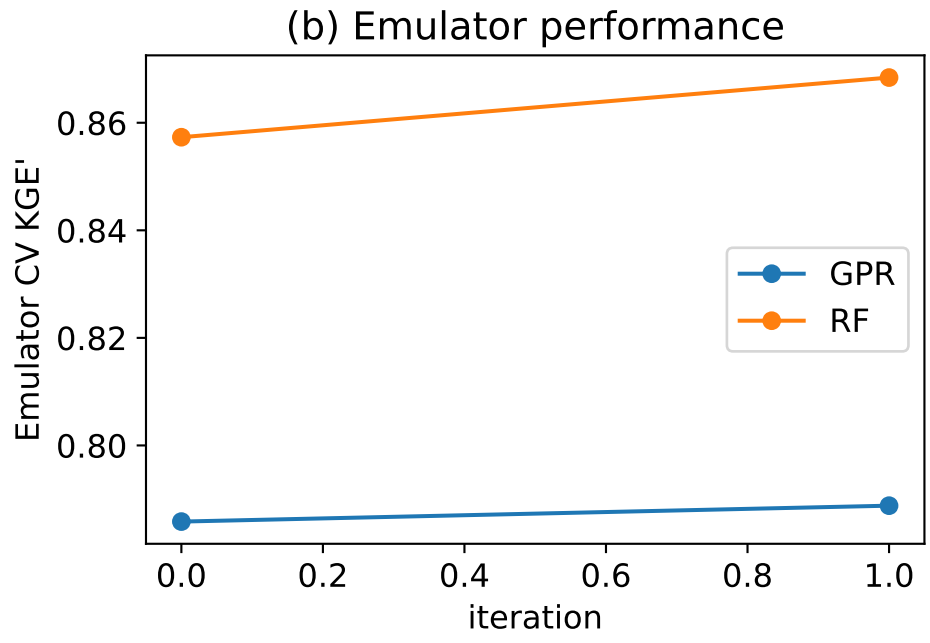


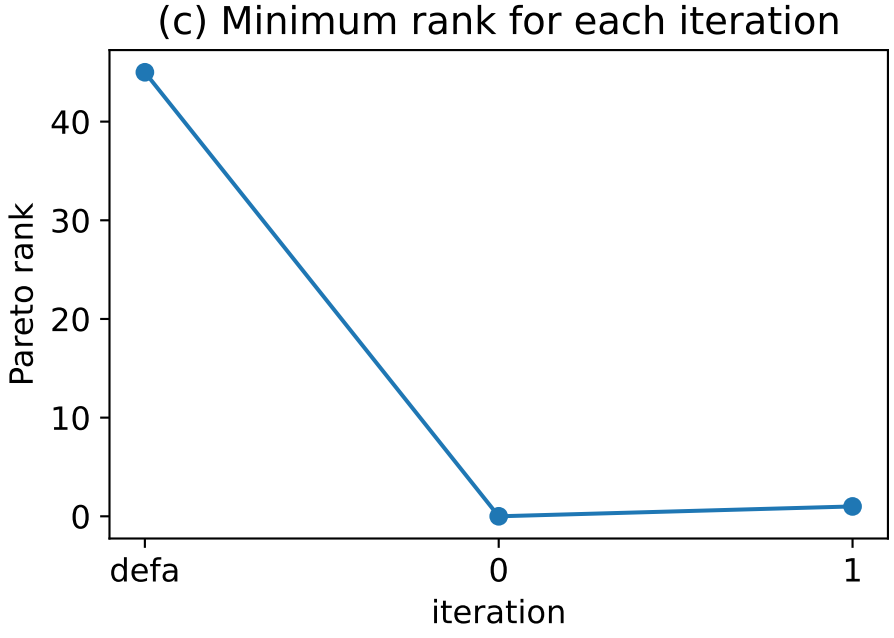




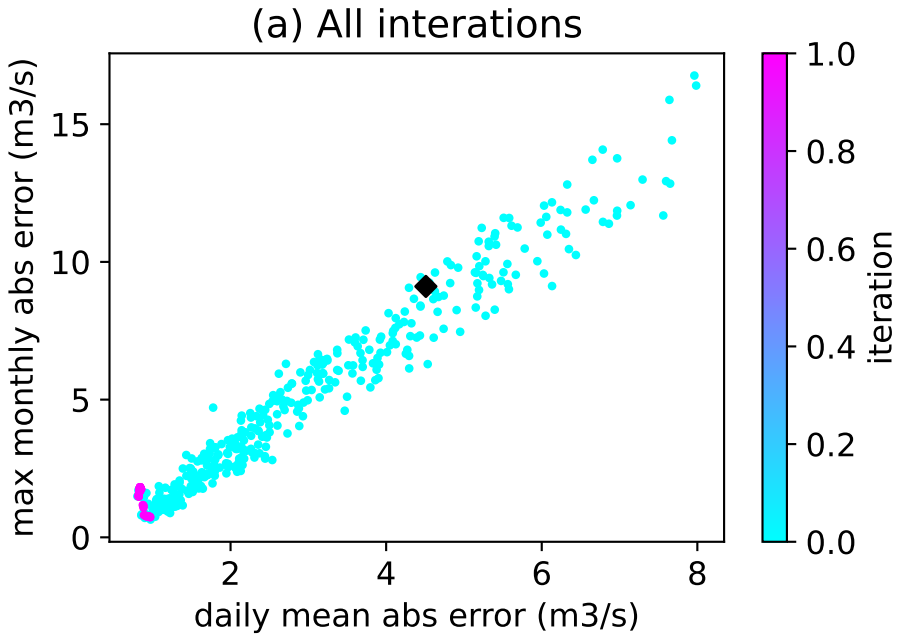
basinid: 419
hru_id: 8103900
lat_cen: 30.91032
lon_cen: -98.11479
AREA: 86.26 km2
elev_mean: 375.91 m

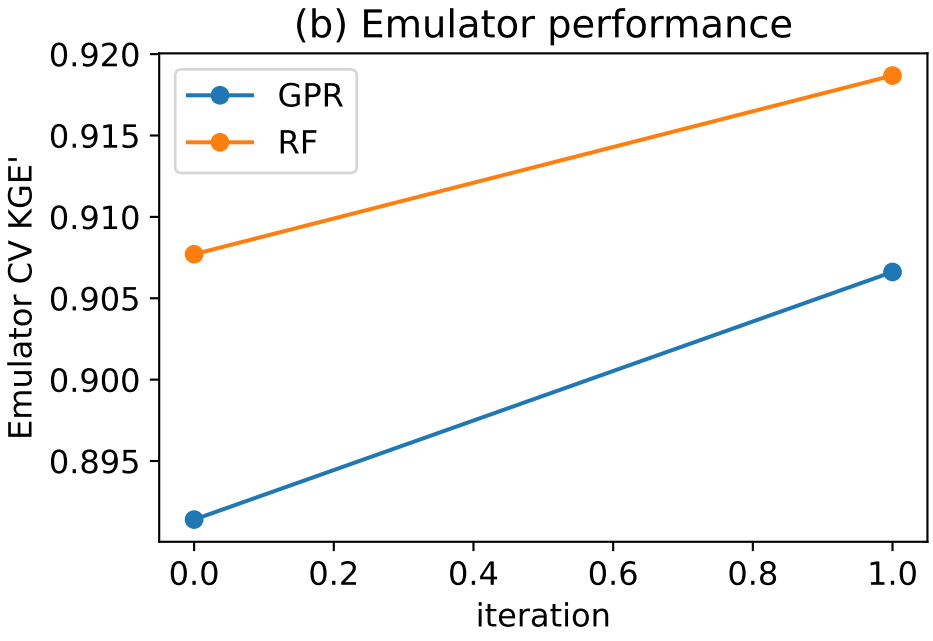


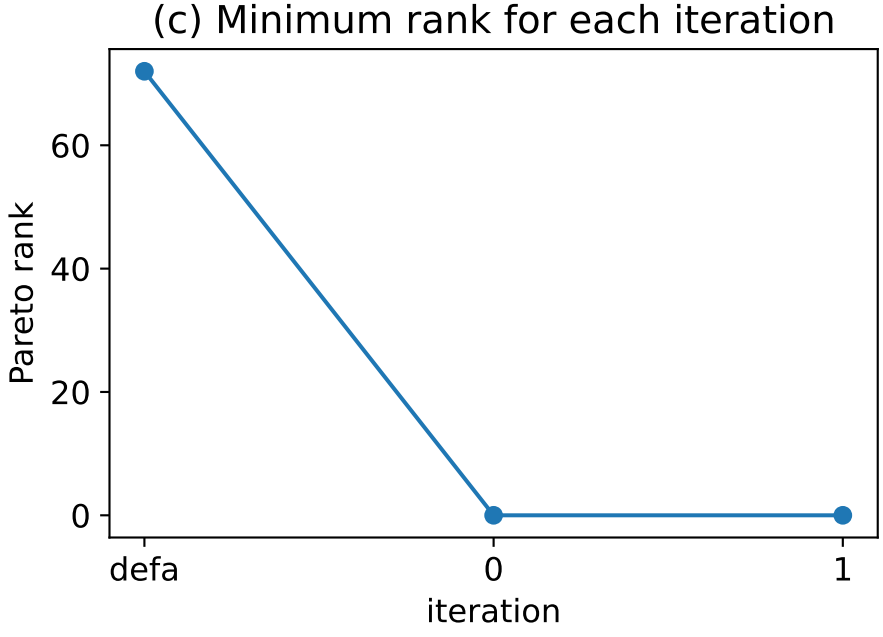




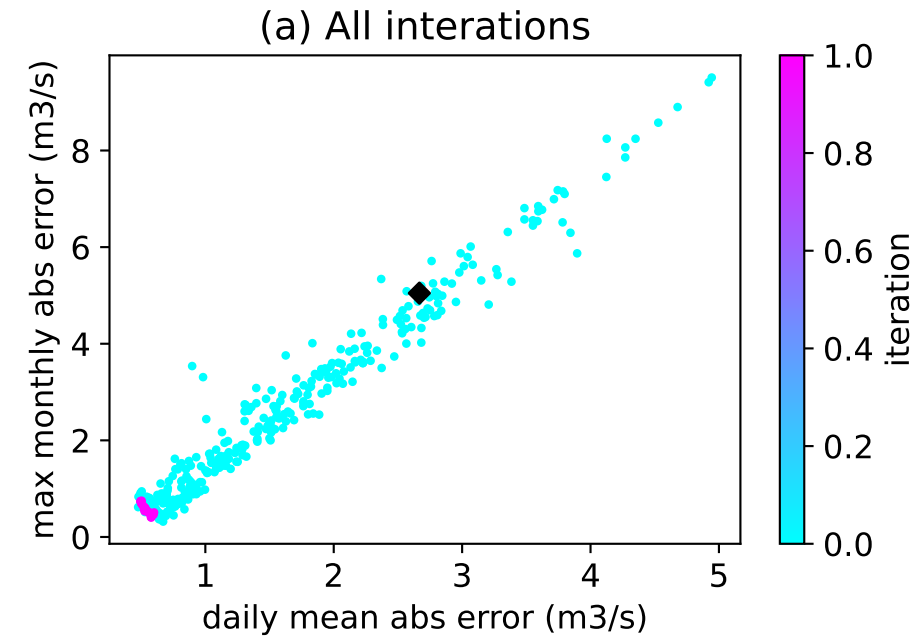
basinid: 420
hru_id: 8104900
lat_cen: 30.66586
lon_cen: -97.97121
AREA: 347.91 km2
elev_mean: 339.75 m

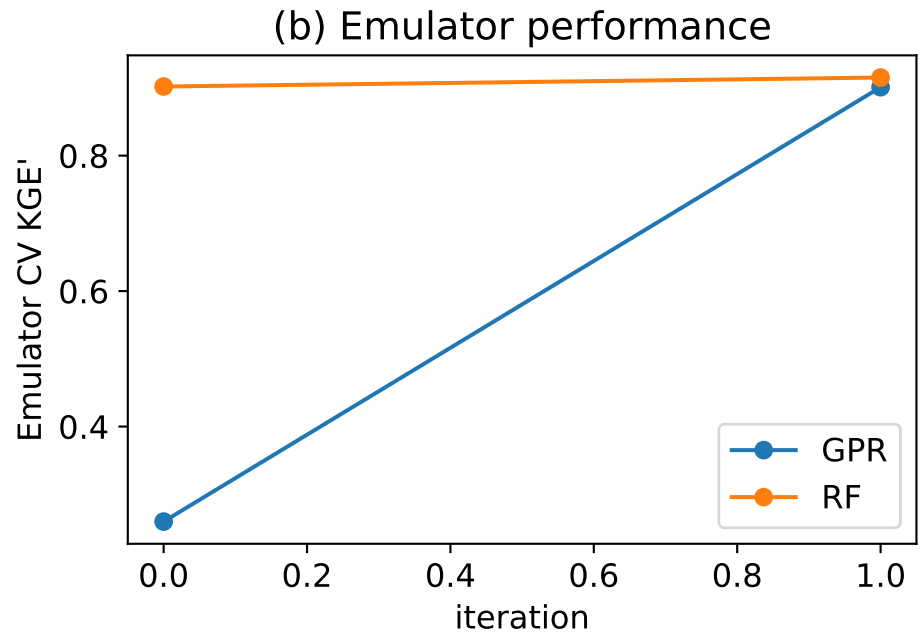


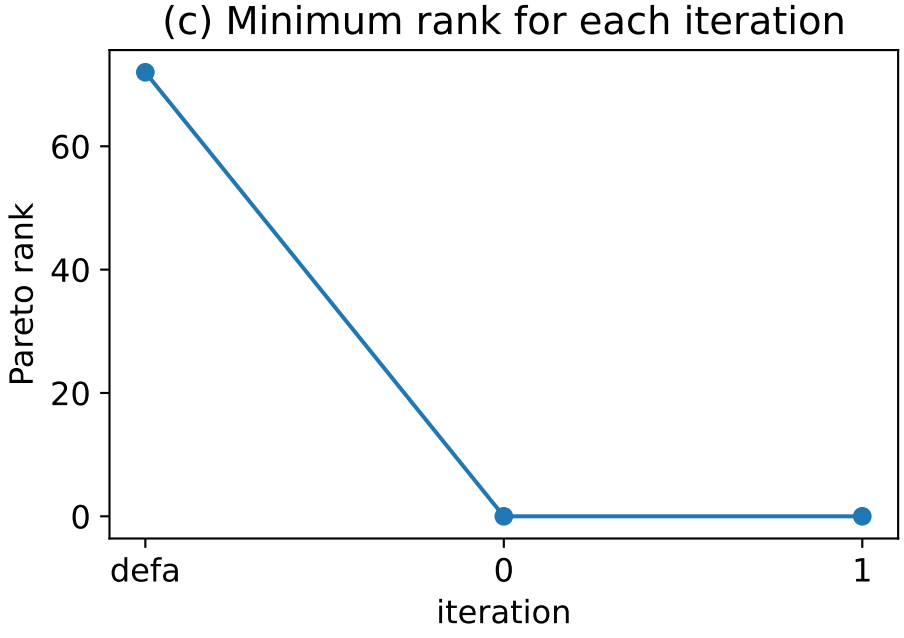




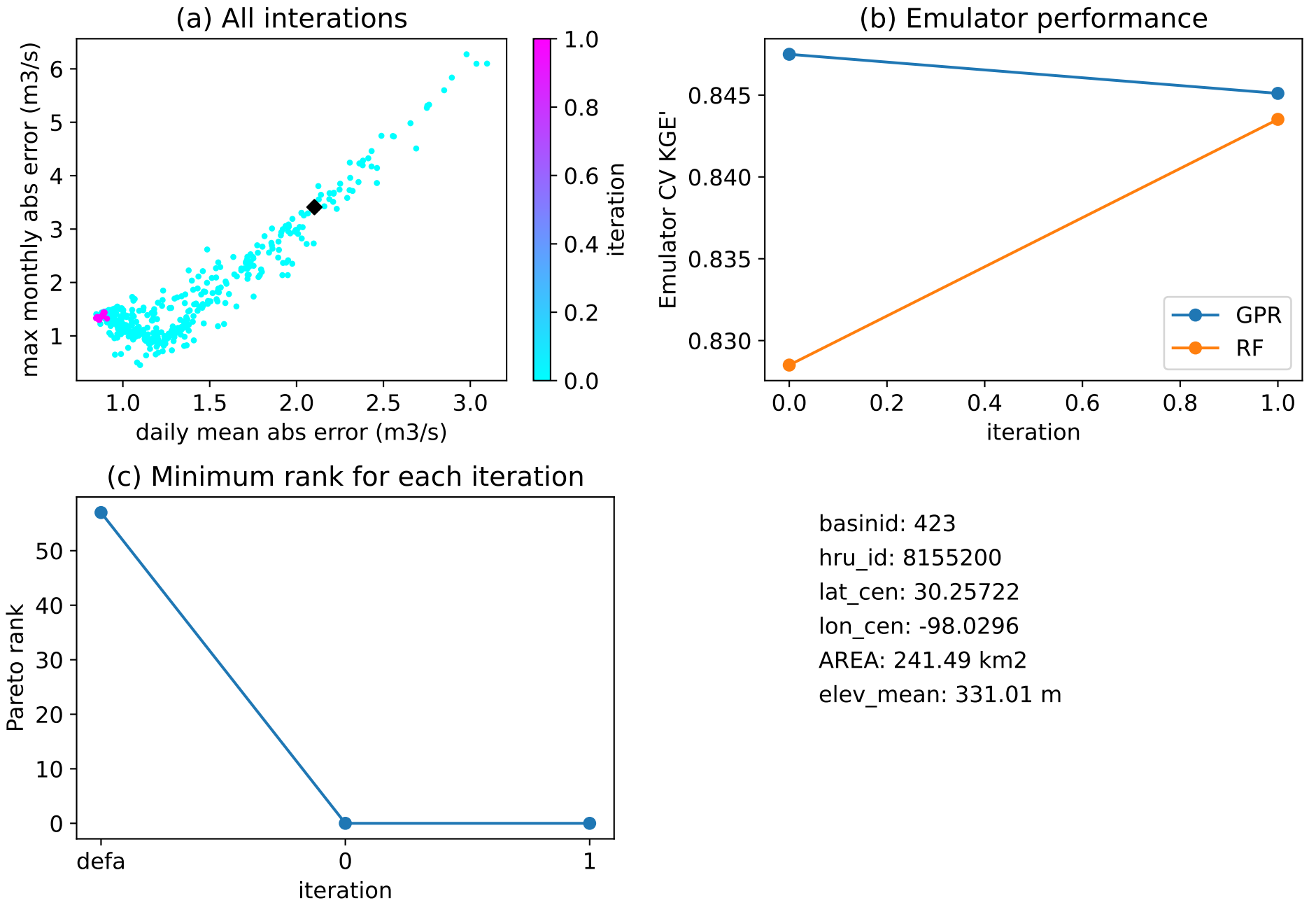
basinid: 421
hru_id: 8109700
lat_cen: 30.41359
lon_cen: -97.11498
AREA: 621.68 km2
elev_mean: 140.24 m

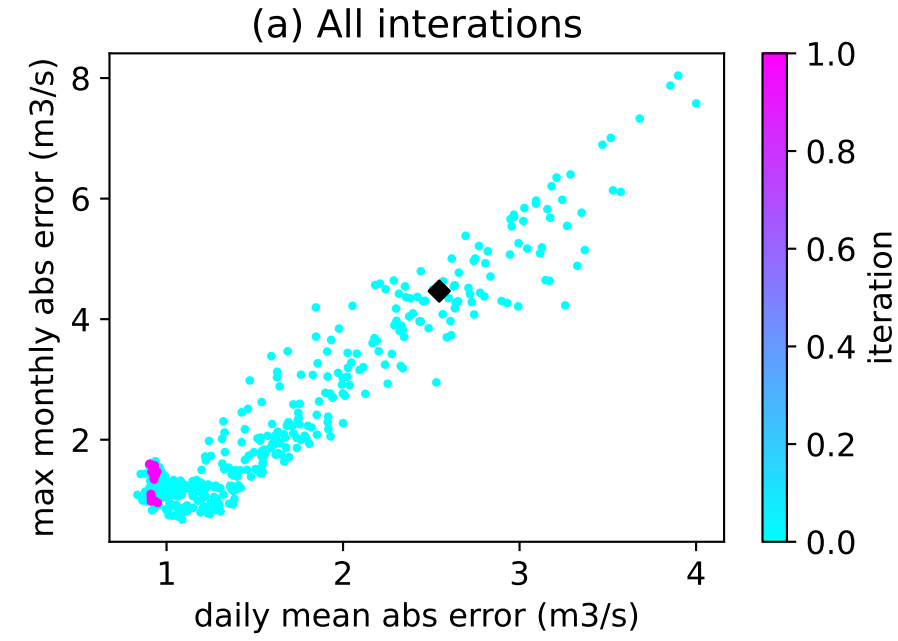


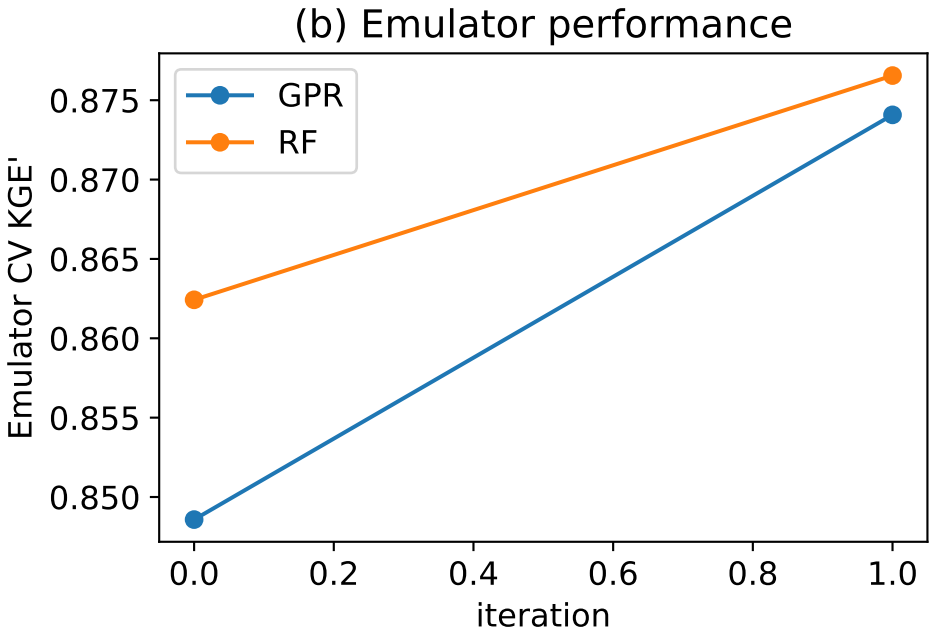


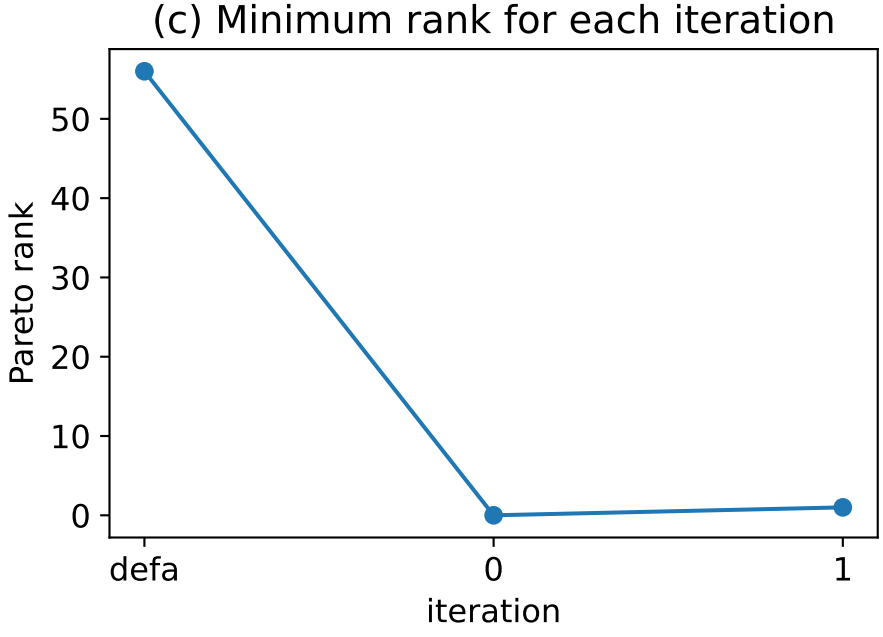


basinid: 422
hru_id: 8150800
lat_cen: 30.46542
lon_cen: -99.1282
AREA: 562.14 km2
elev_mean: 557.69 m

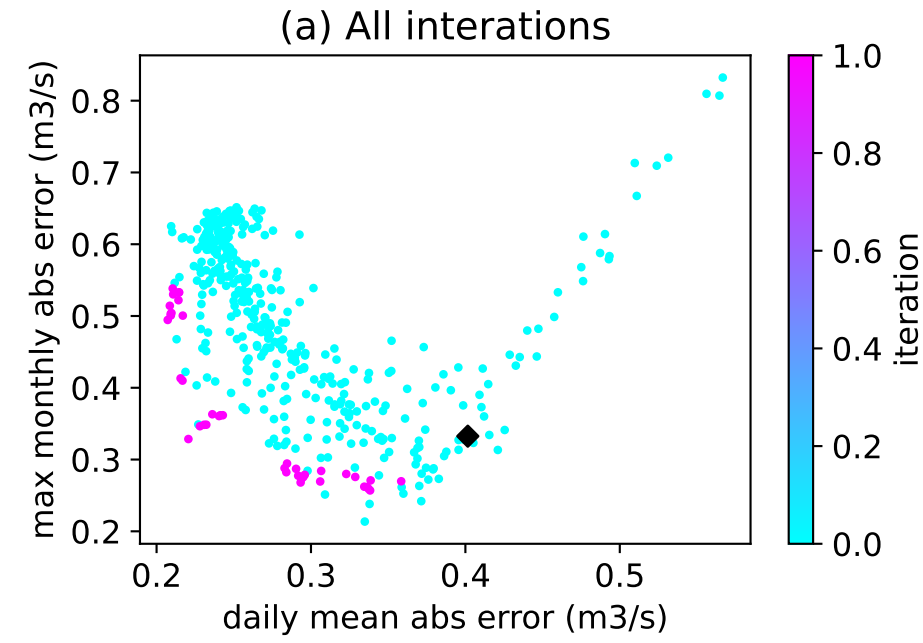

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 423
hru_id: 8155200
lat_cen: 30.25722
lon_cen: -98.0296
AREA: 241.49 km2
elev_mean: 331.01 m

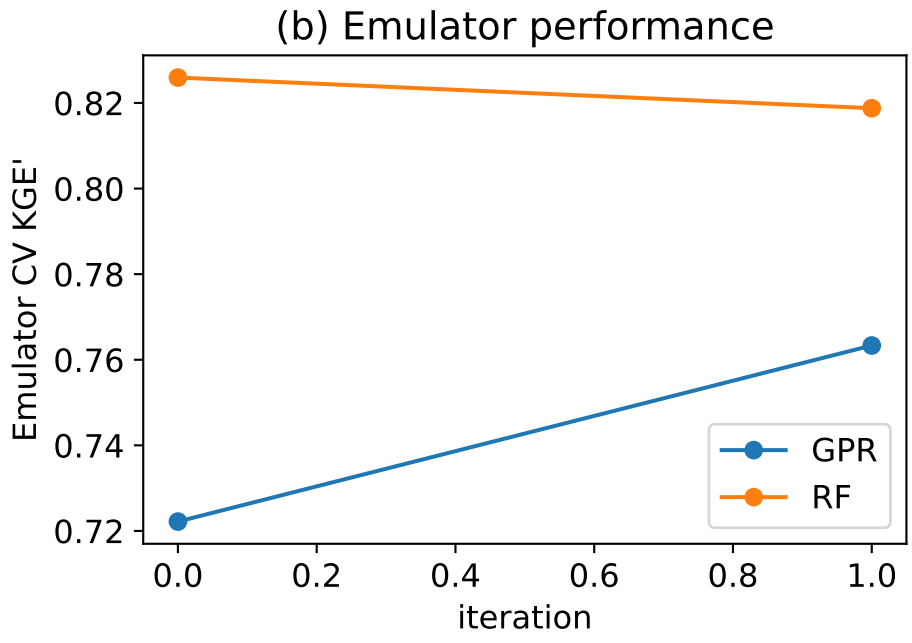


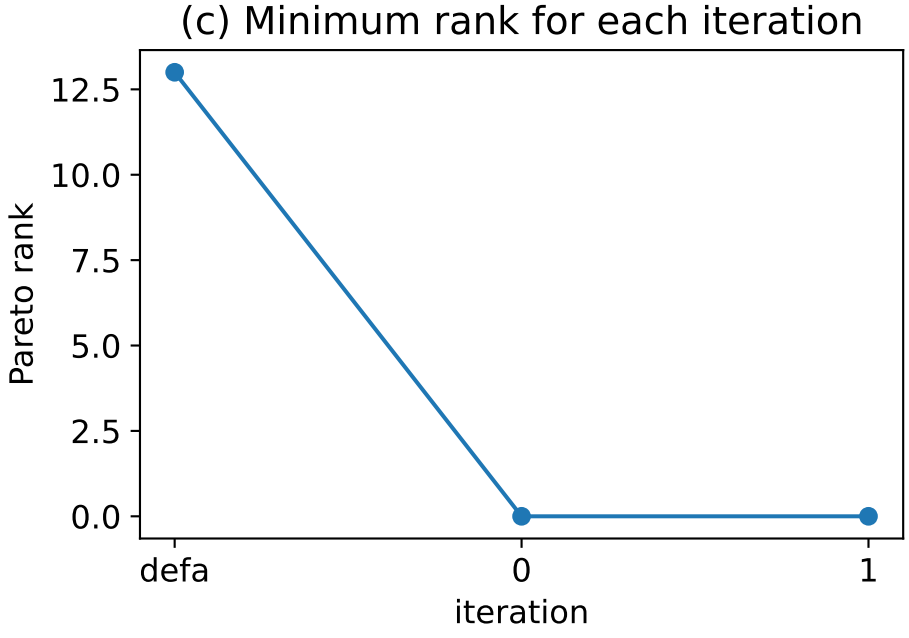




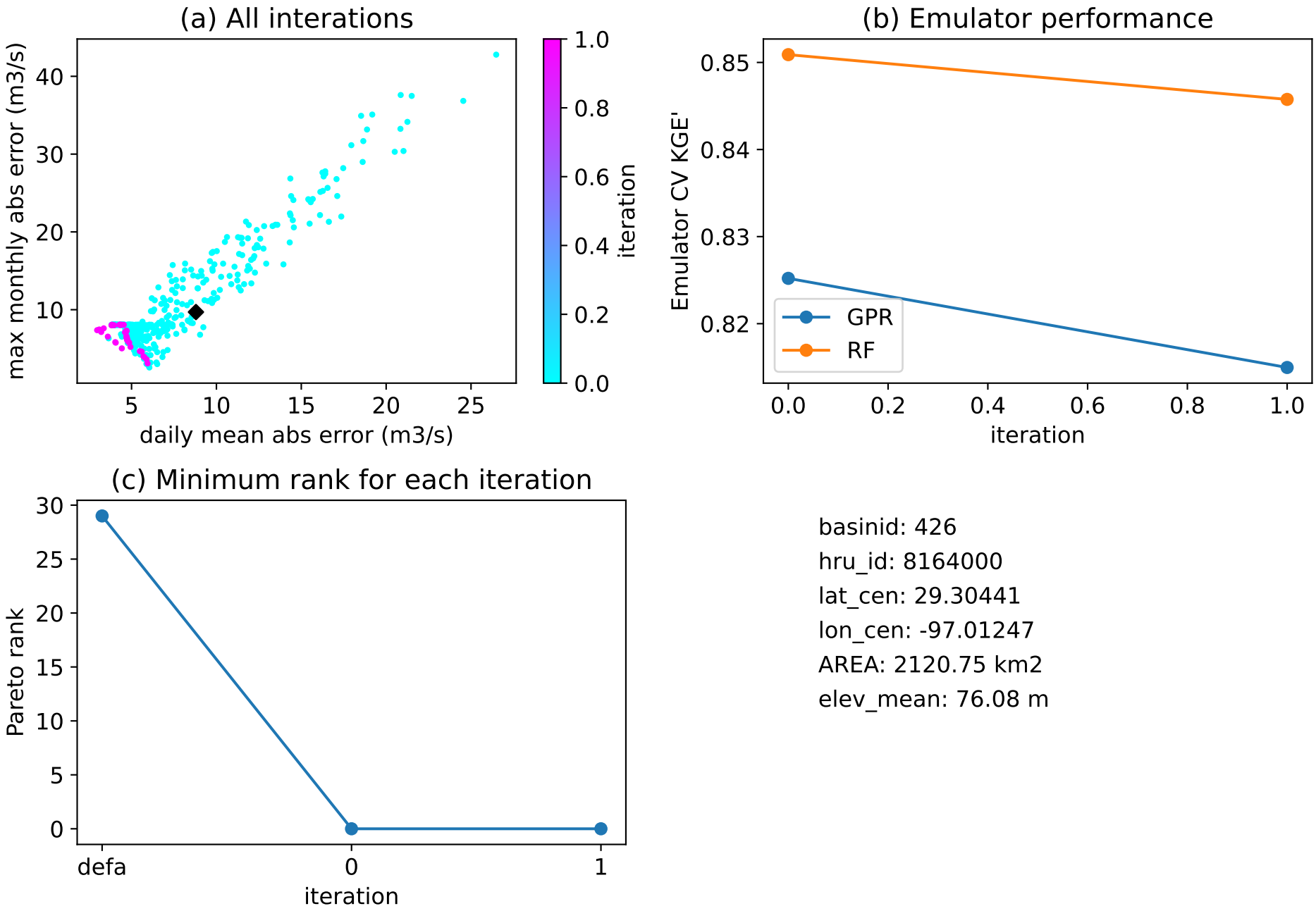
basinid: 424
hru_id: 8158700
lat_cen: 30.1453
lon_cen: -98.12048
AREA: 321.12 km2
elev_mean: 371.32 m

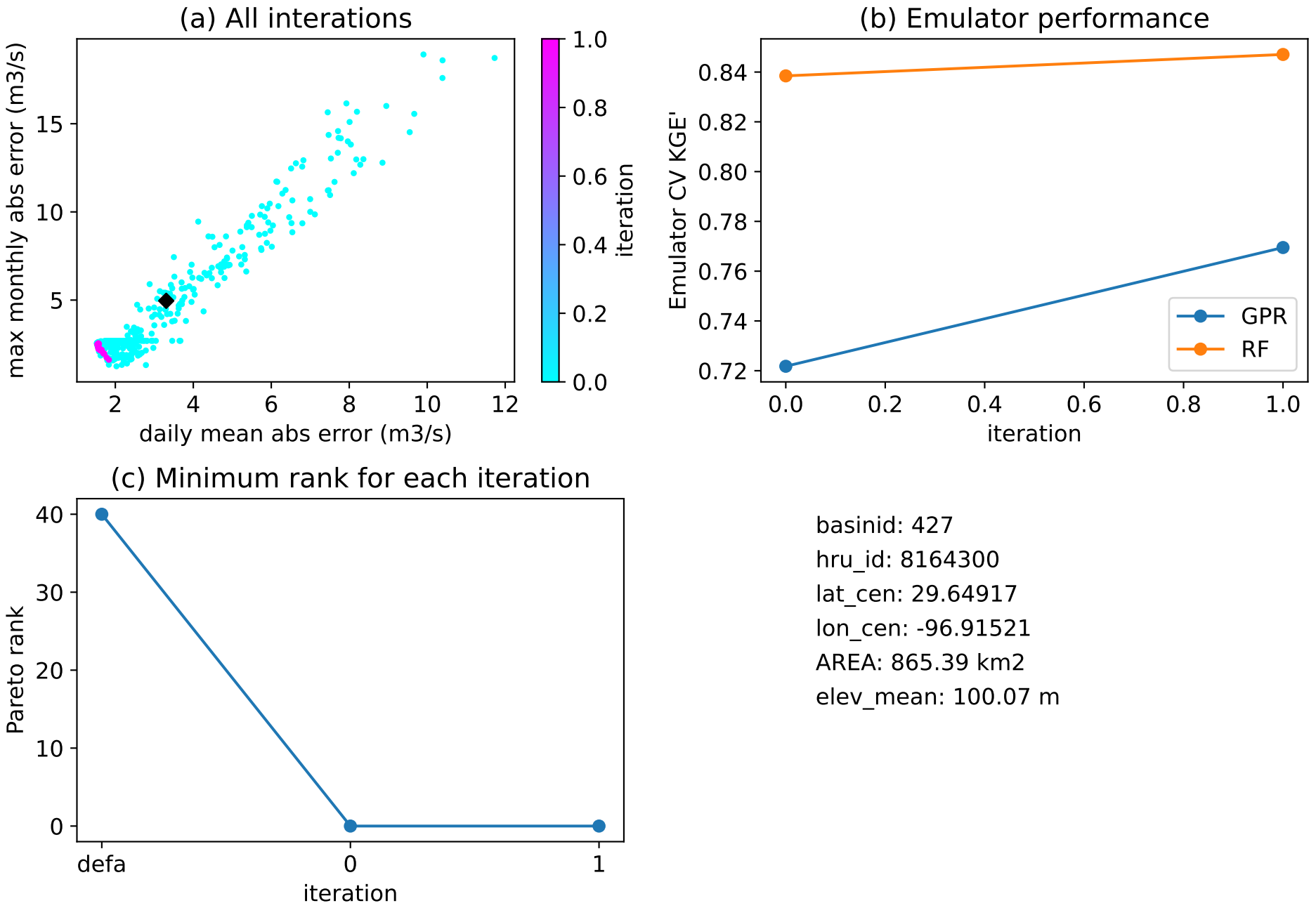


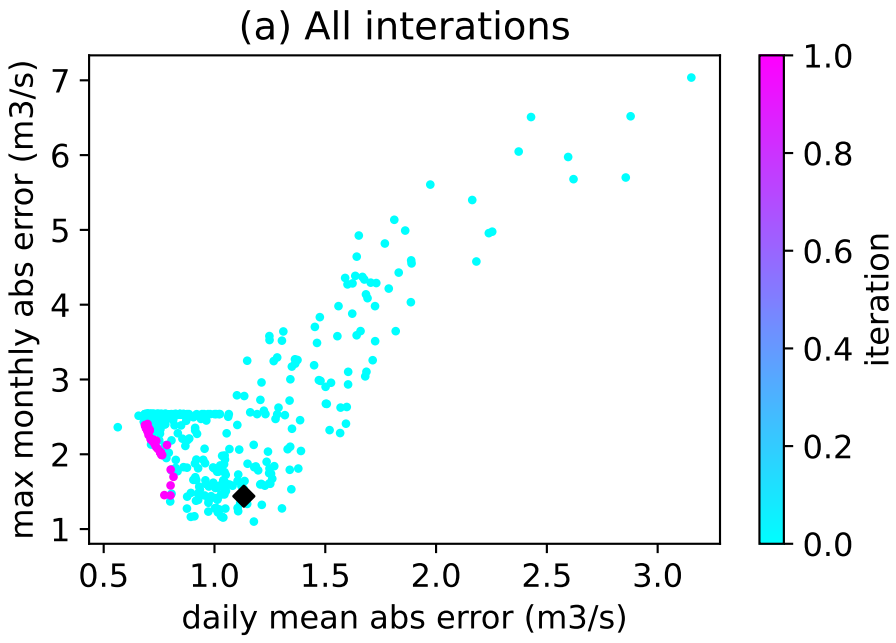


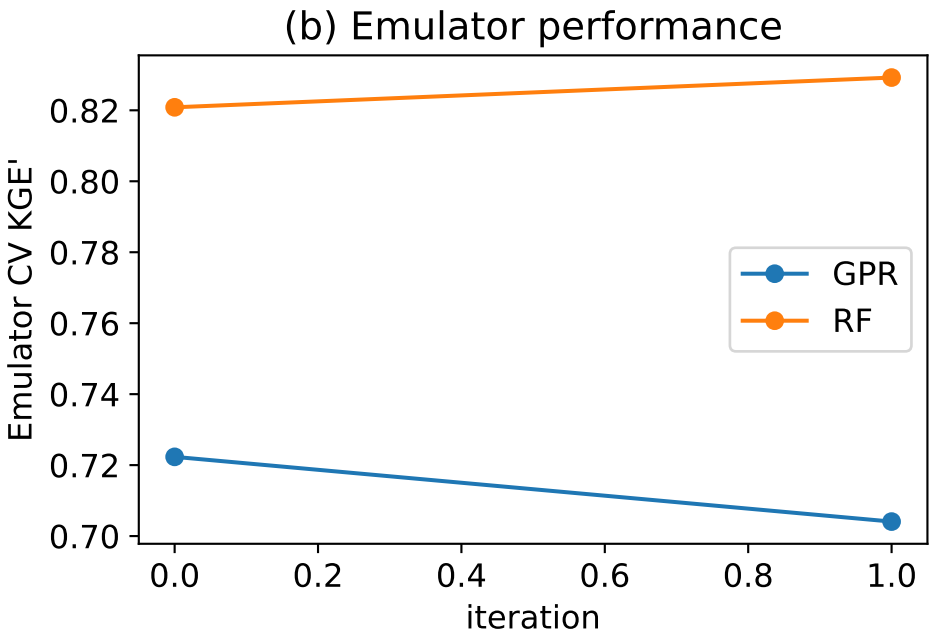


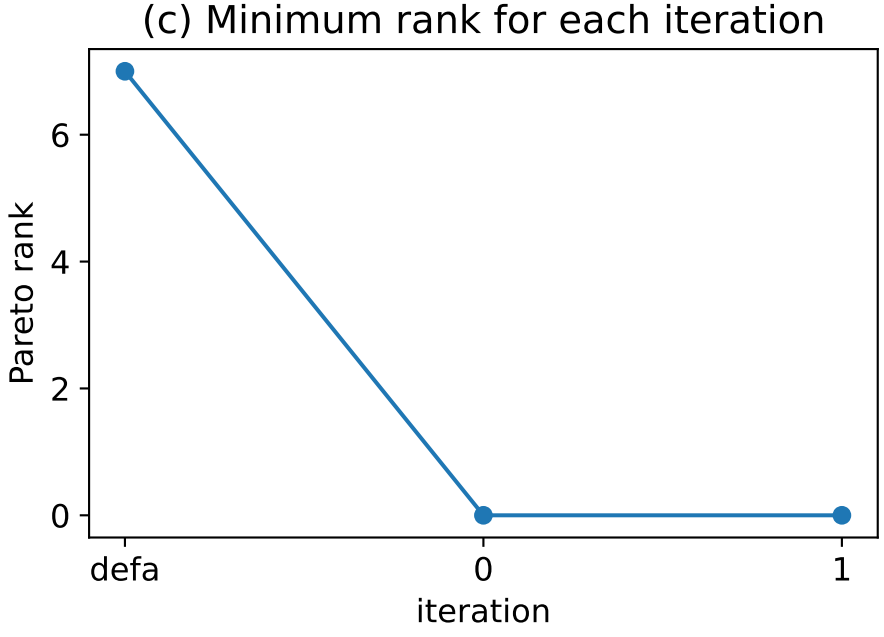
basinid: 425
hru_id: 8158810
lat_cen: 30.16947
lon_cen: -97.97222
AREA: 33.74 km2
elev_mean: 319.49 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 426
hru_id: 8164000
lat_cen: 29.30441
lon_cen: -97.01247
AREA: 2120.75 km2
elev_mean: 76.08 m

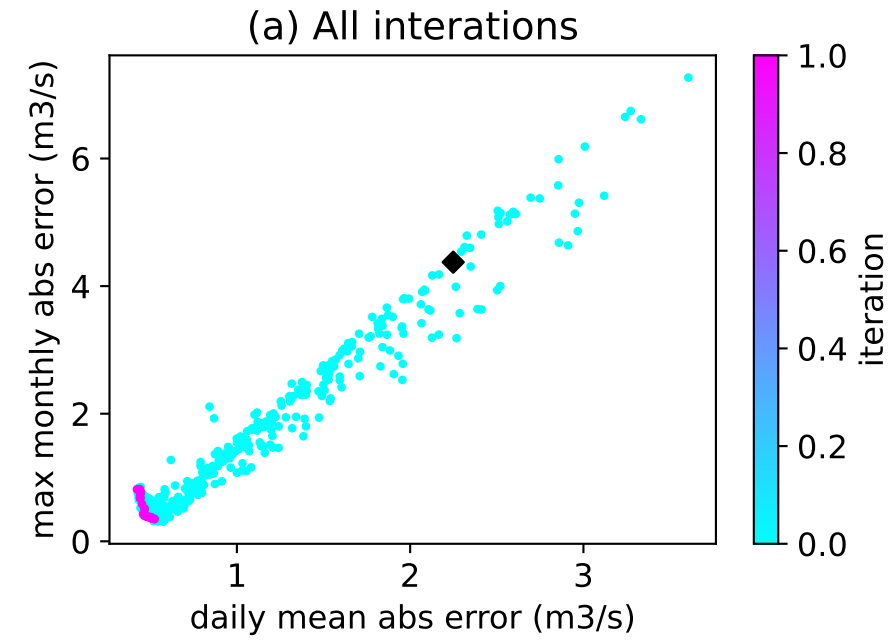

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 427
hru_id: 8164300
lat_cen: 29.64917
lon_cen: -96.91521
AREA: 865.39 km2
elev_mean: 100.07 m

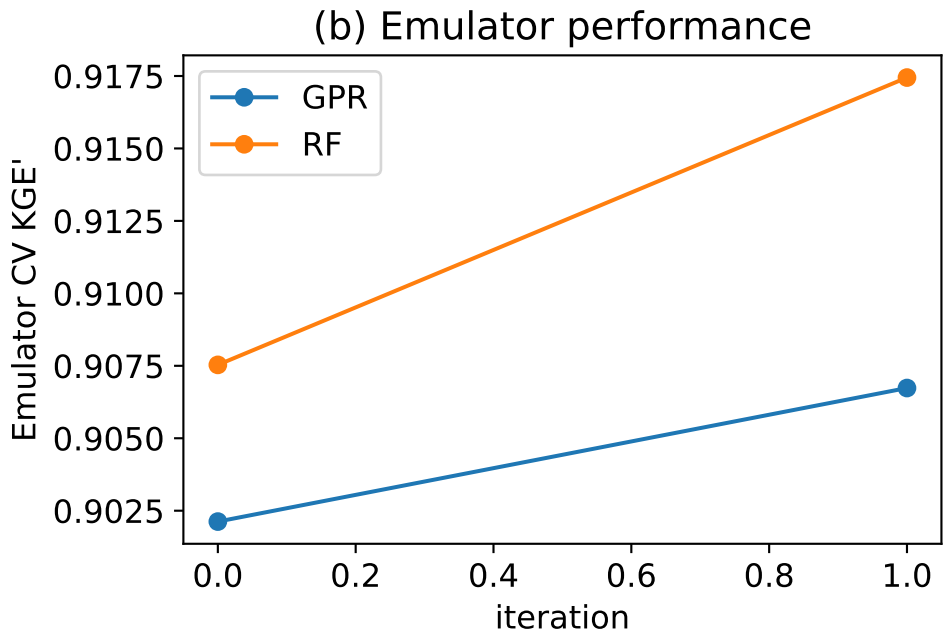


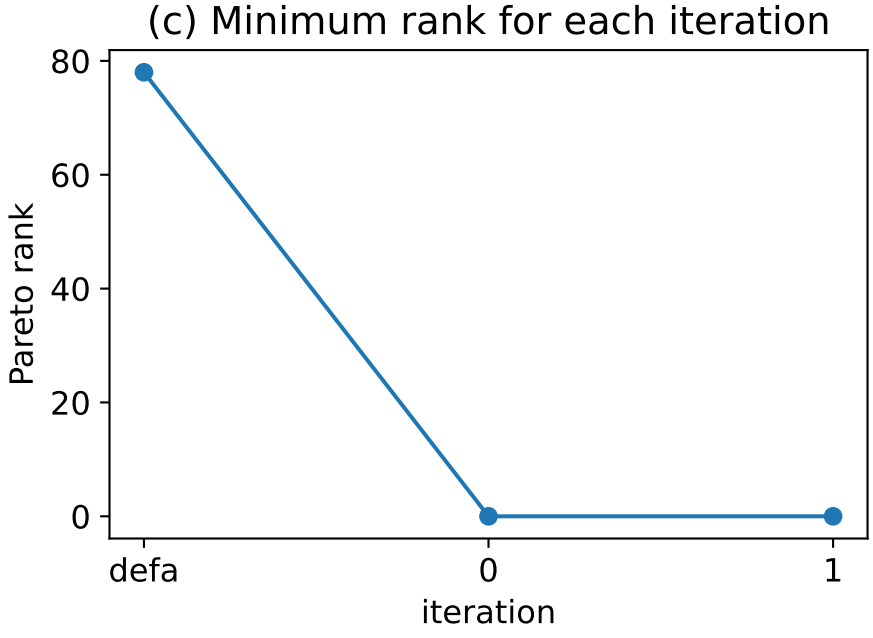




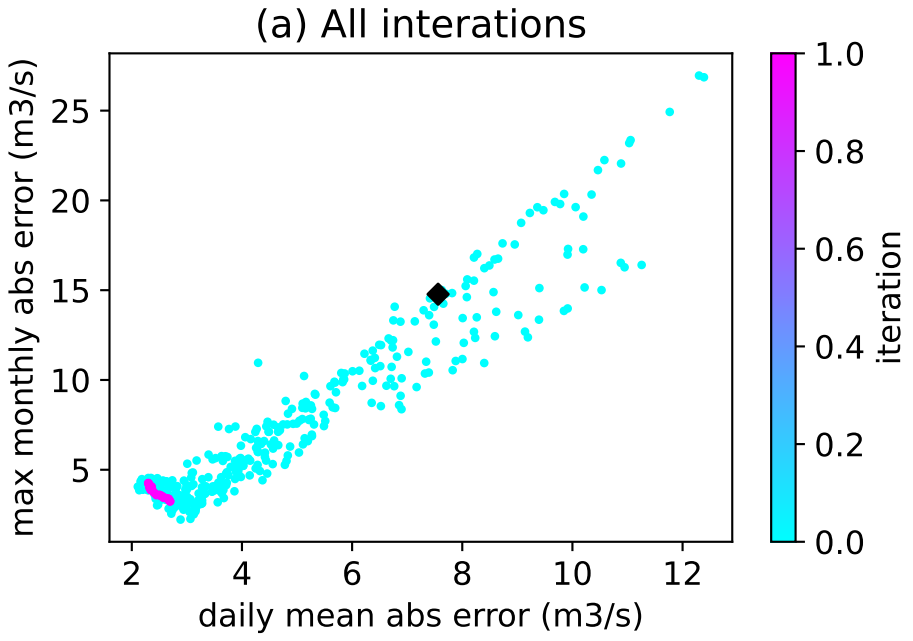
basinid: 428
hru_id: 8164600
lat_cen: 28.95038
lon_cen: -96.96964
AREA: 264.08 km2
elev_mean: 38.62 m

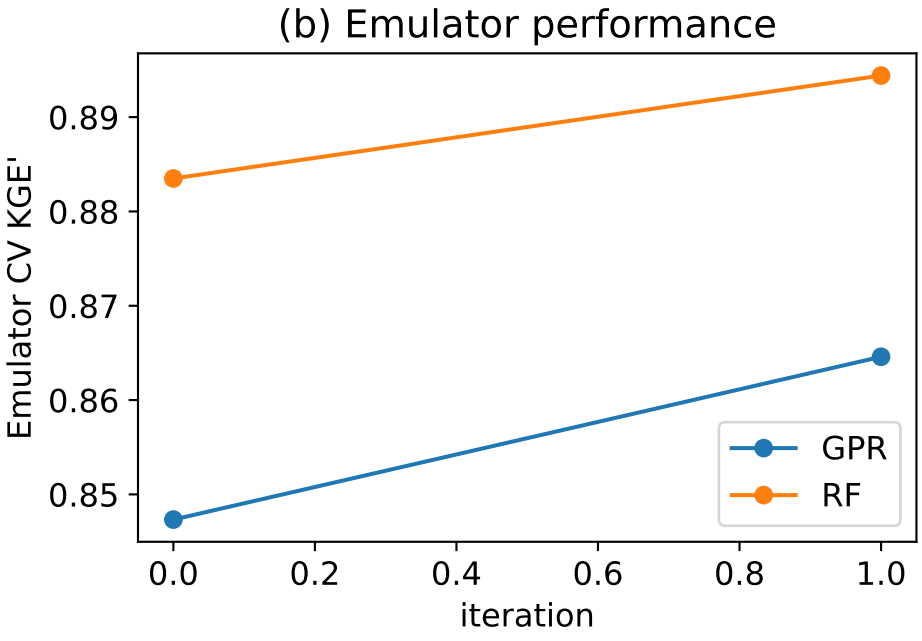


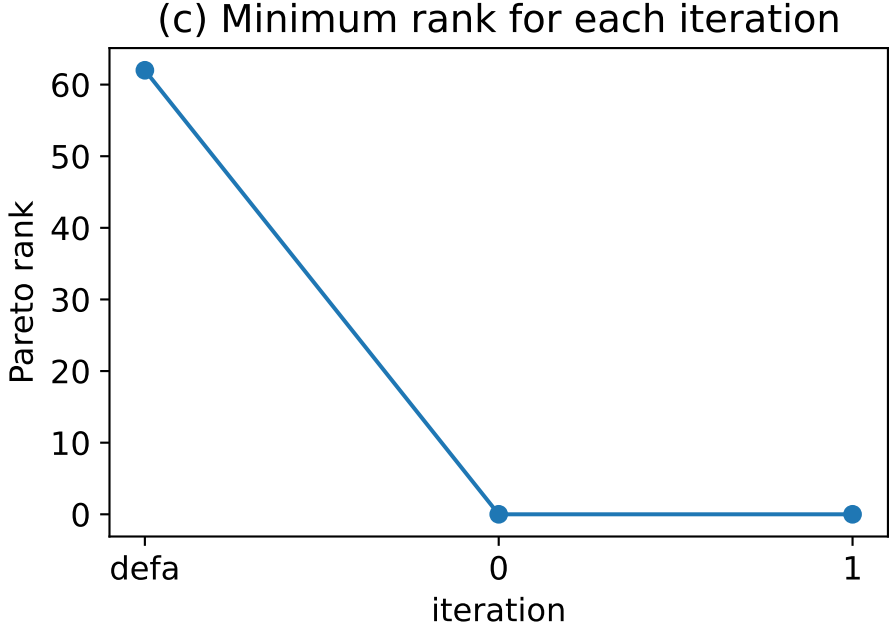




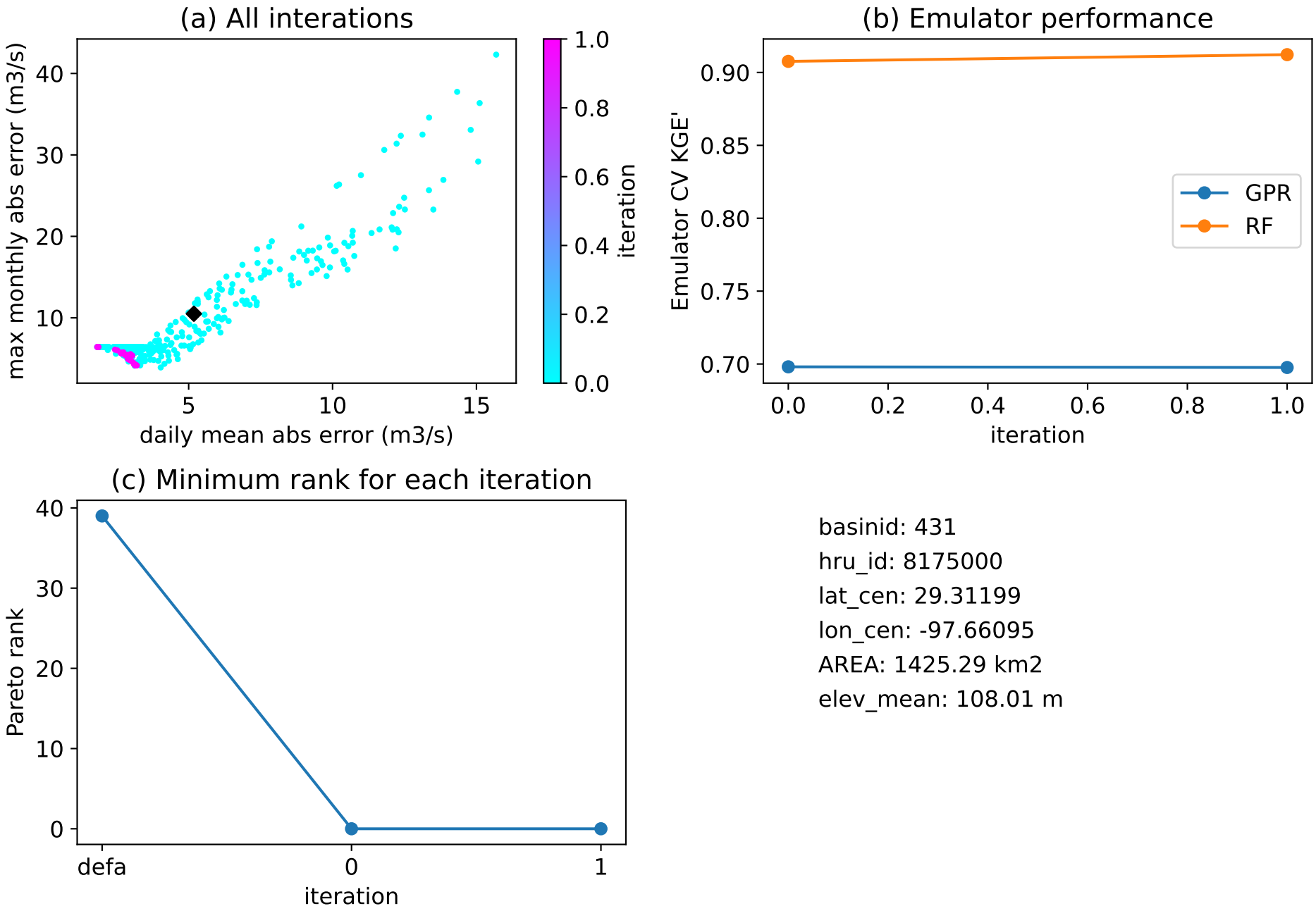
basinid: 429
hru_id: 8165300
lat_cen: 30.05147
lon_cen: -99.5509
AREA: 439.98 km2
elev_mean: 660.67 m

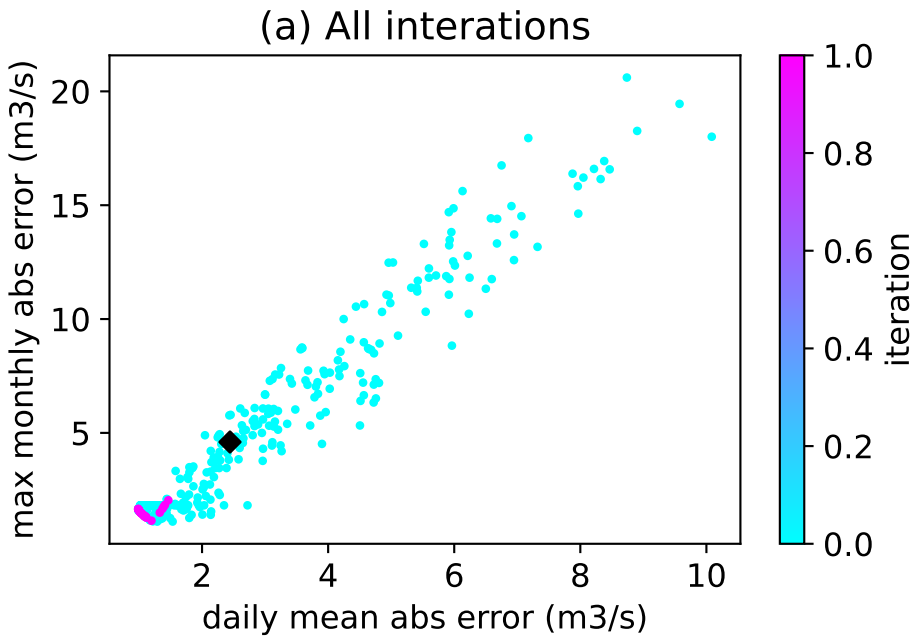


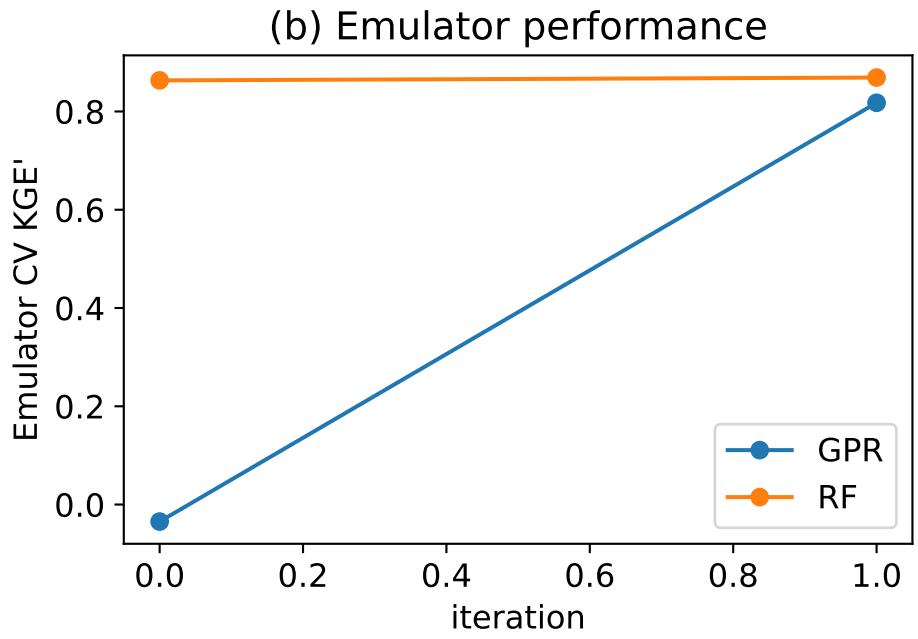


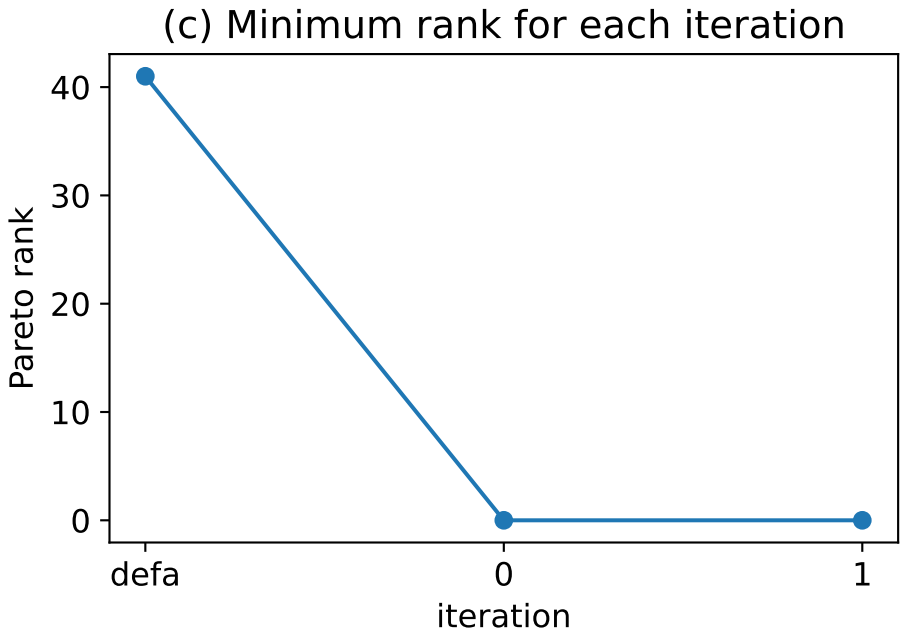


basinid: 430
hru_id: 8171300
lat_cen: 30.04894
lon_cen: -98.31502
AREA: 1073.94 km2
elev_mean: 399.81 m

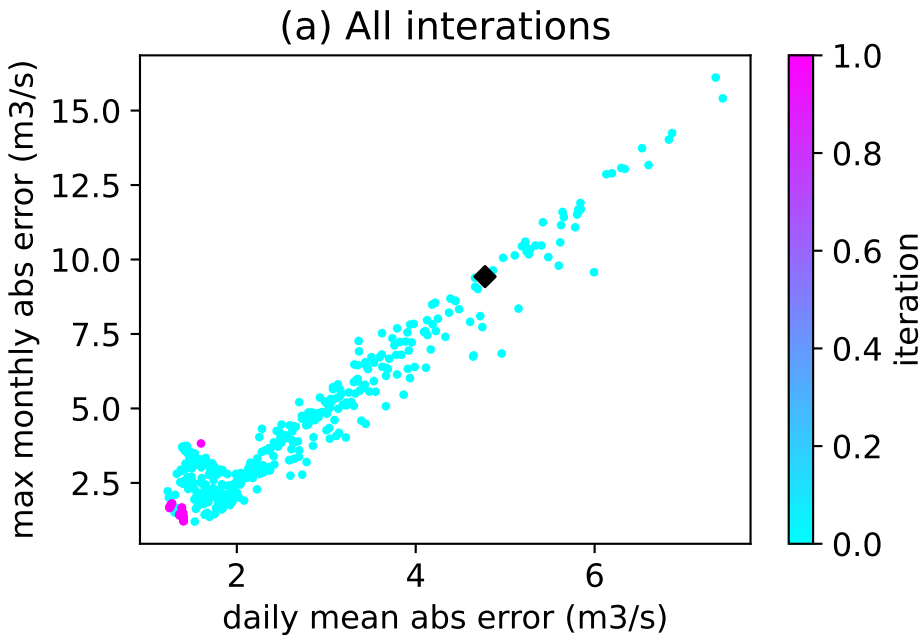

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 431
hru_id: 8175000
lat_cen: 29.31199
lon_cen: -97.66095
AREA: 1425.29 km2
elev_mean: 108.01 m

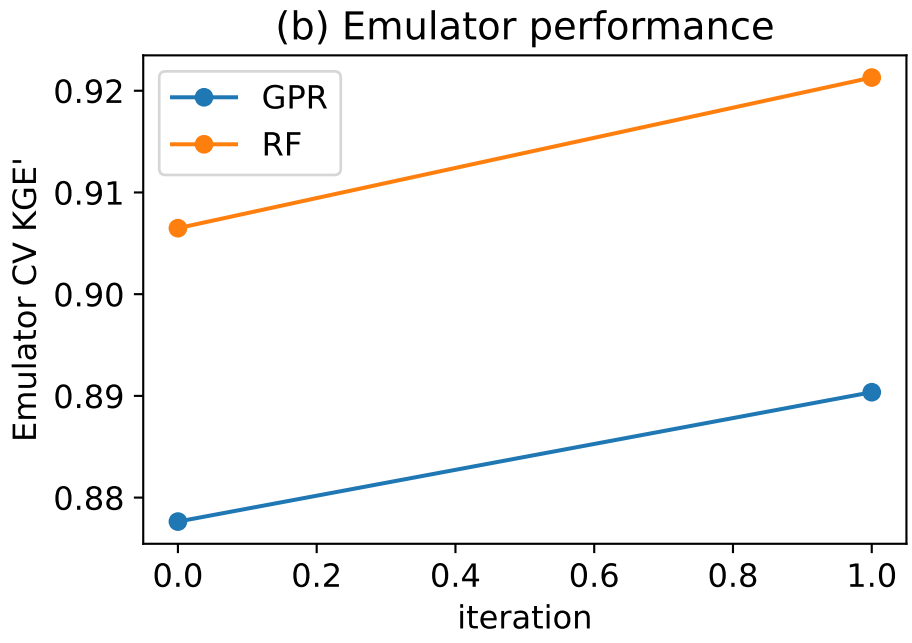


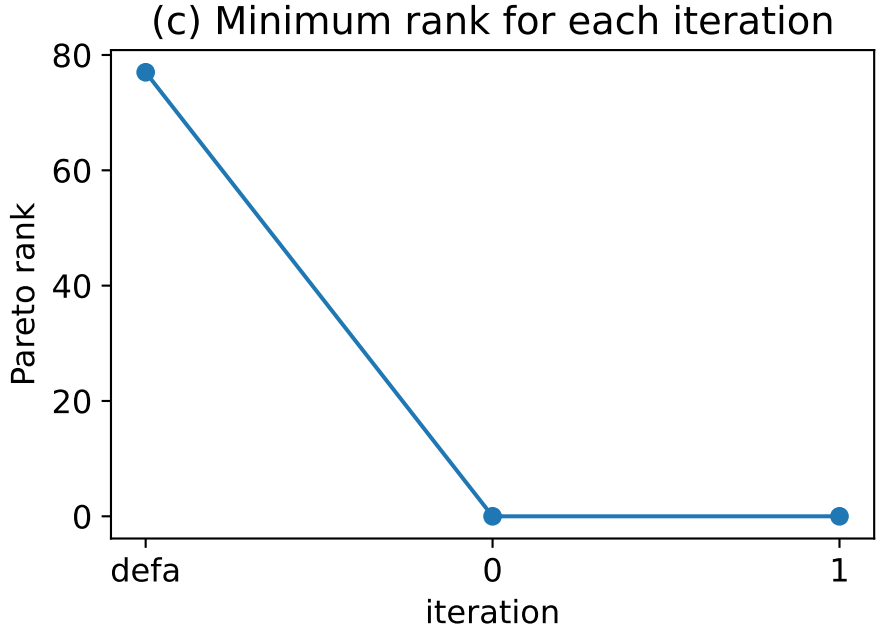




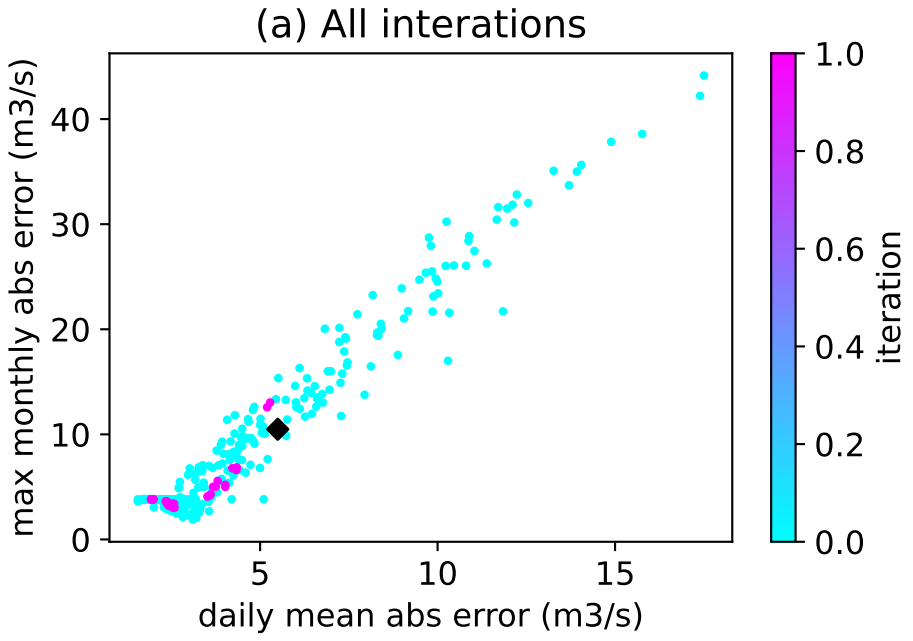
basinid: 432
hru_id: 8176900
lat_cen: 28.95212
lon_cen: -97.44086
AREA: 925.55 km2
elev_mean: 92.20 m

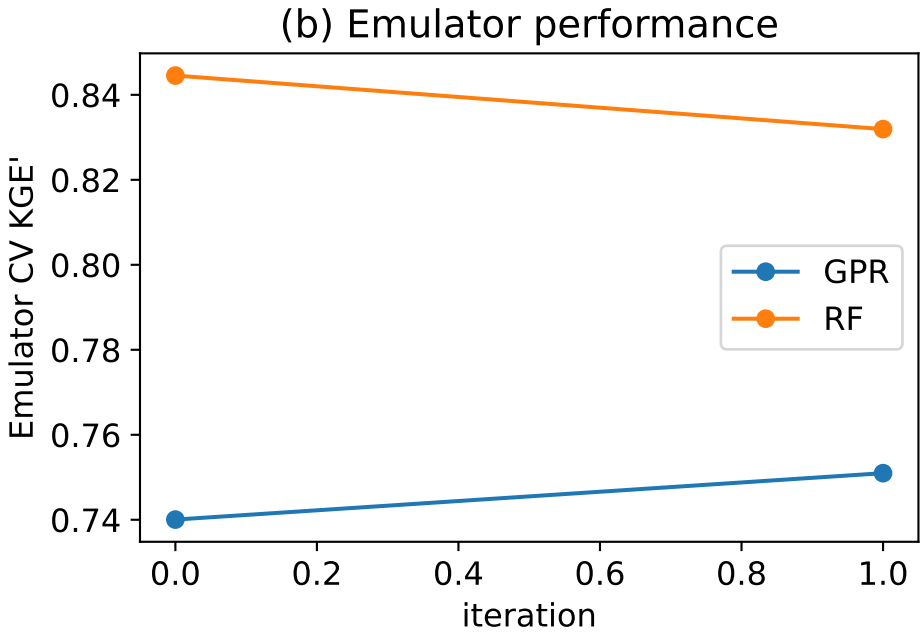


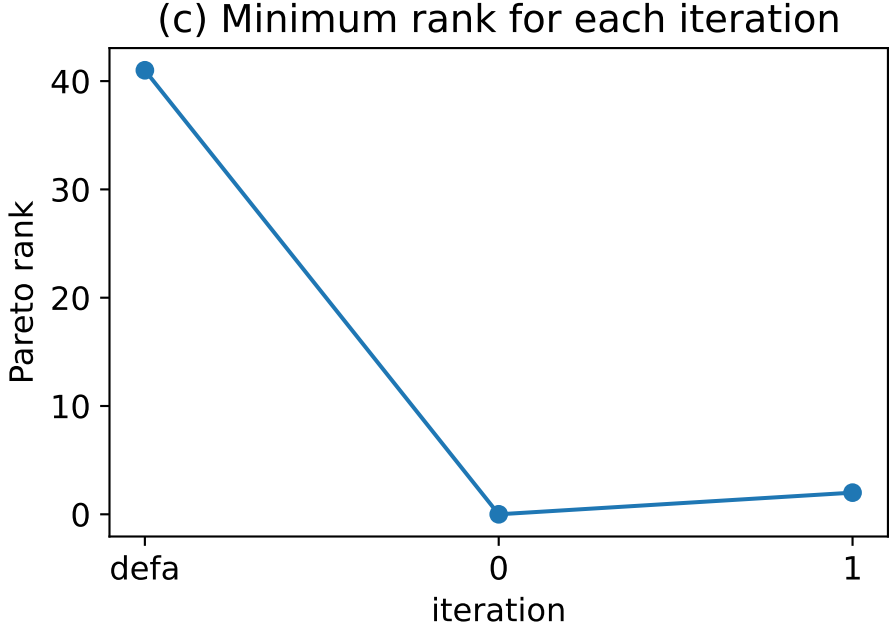




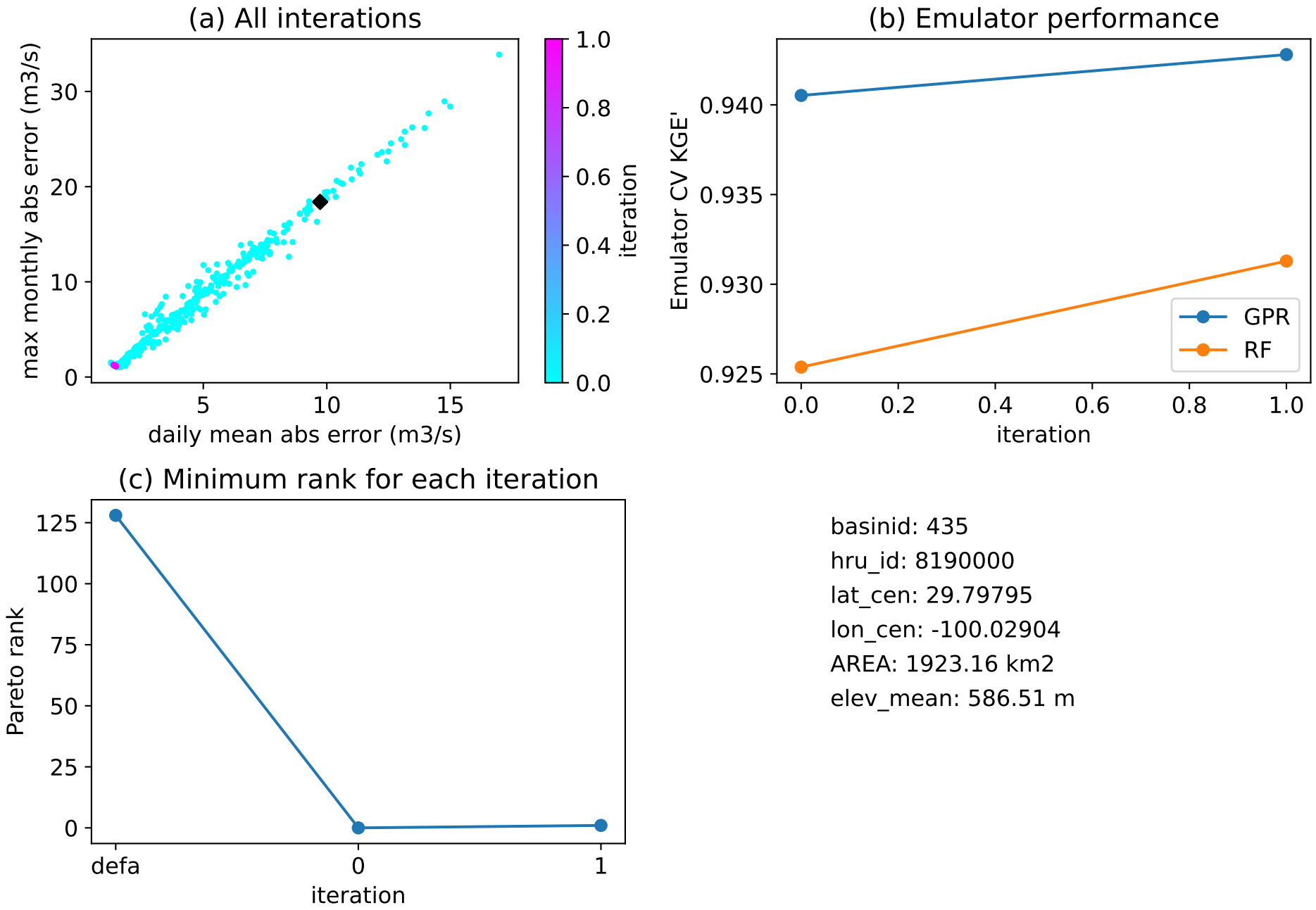
basinid: 433
hru_id: 8178880
lat_cen: 29.81589
lon_cen: -99.31528
AREA: 851.58 km2
elev_mean: 552.06 m

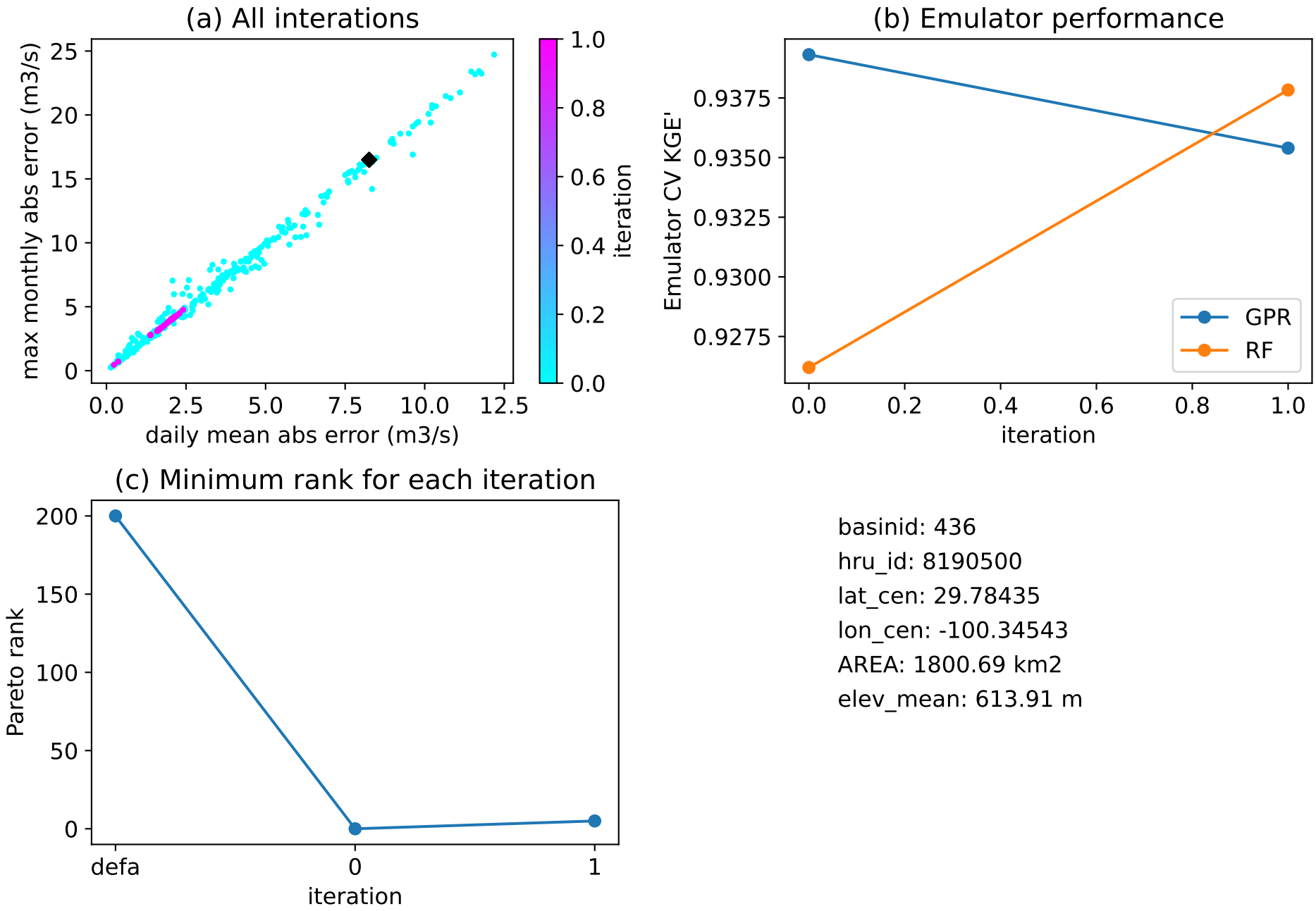


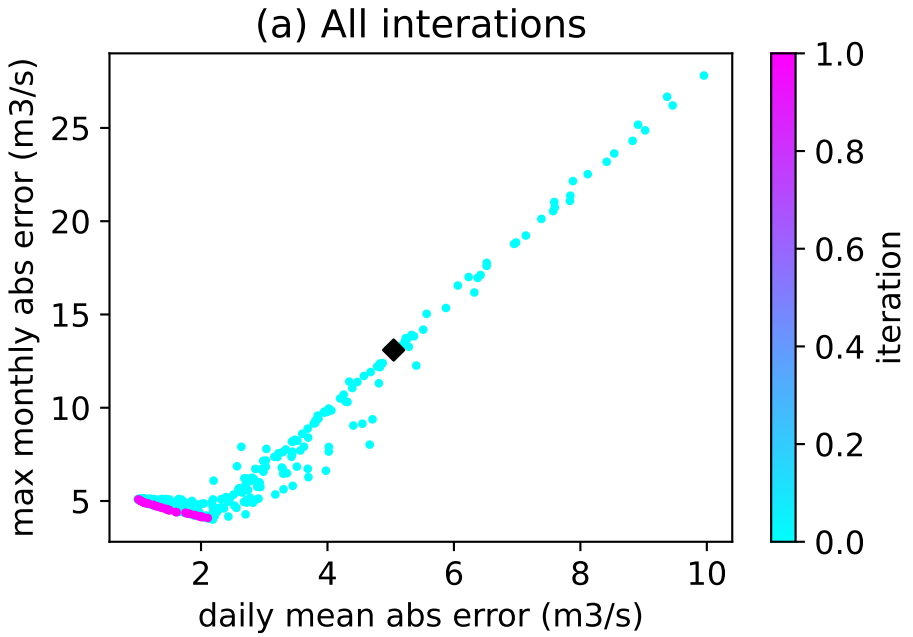


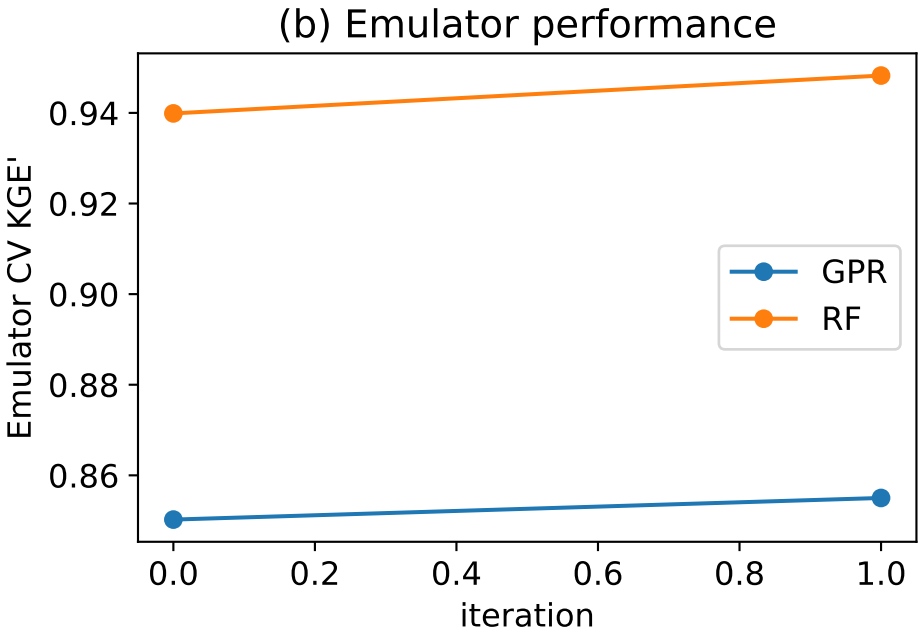


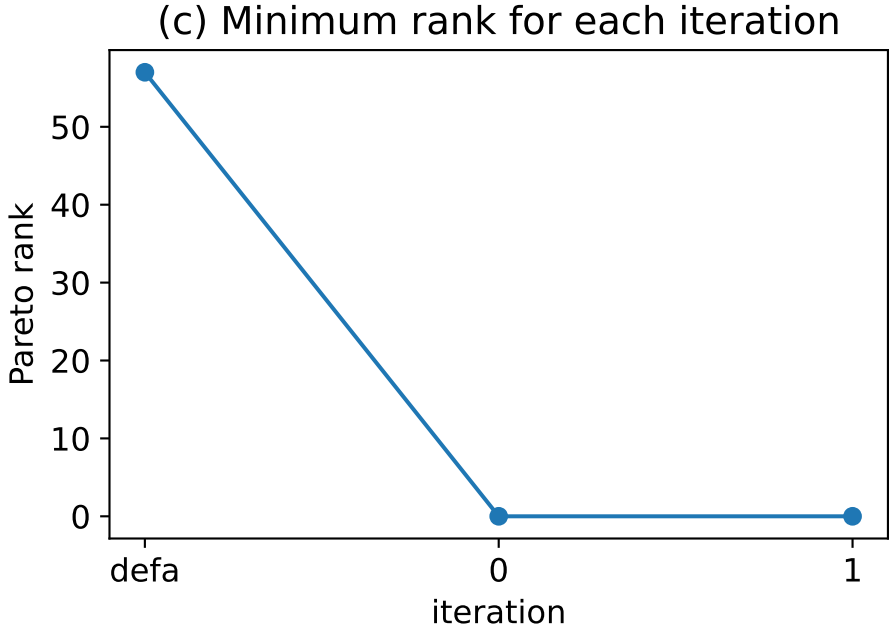
basinid: 434
hru_id: 8189500
lat_cen: 28.51445
lon_cen: -97.6094
AREA: 1816.54 km2
elev_mean: 71.58 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 435
hru_id: 8190000
lat_cen: 29.79795
lon_cen: -100.02904
AREA: 1923.16 km2
elev_mean: 586.51 m

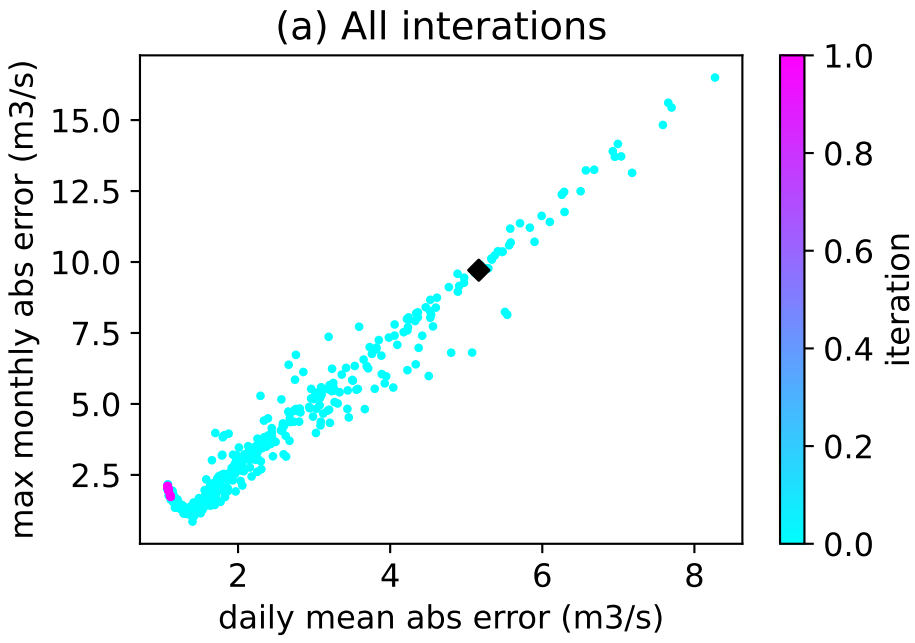

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 436
hru_id: 8190500
lat_cen: 29.78435
lon_cen: -100.34543
AREA: 1800.69 km2
elev_mean: 613.91 m

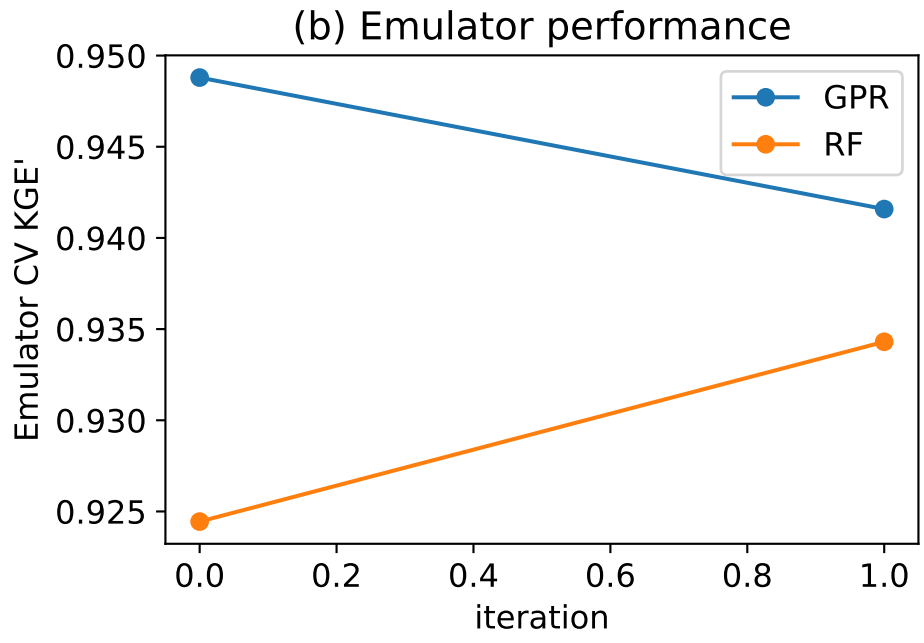


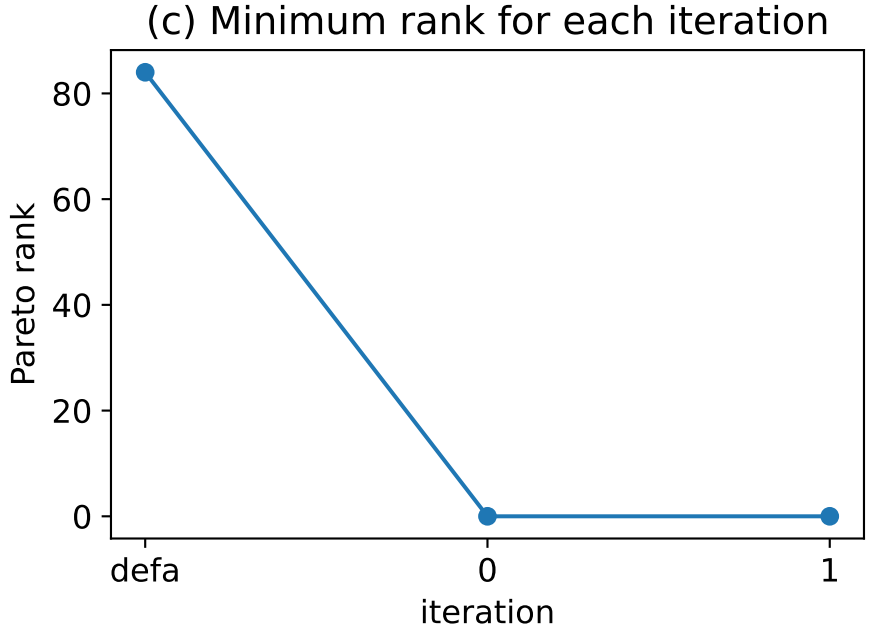




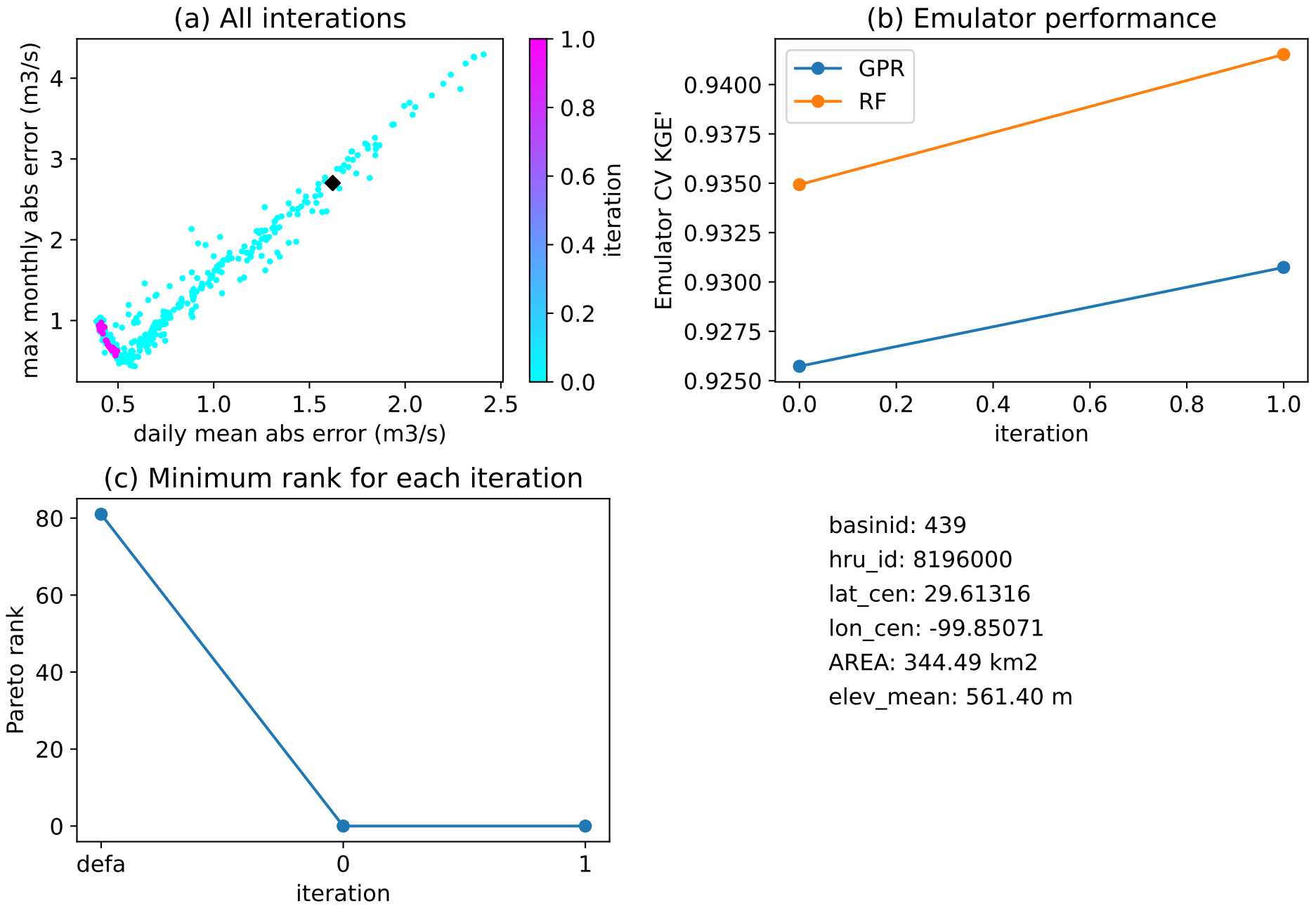
basinid: 437
hru_id: 8194200
lat_cen: 27.75367
lon_cen: -99.10959
AREA: 1233.46 km2
elev_mean: 158.41 m

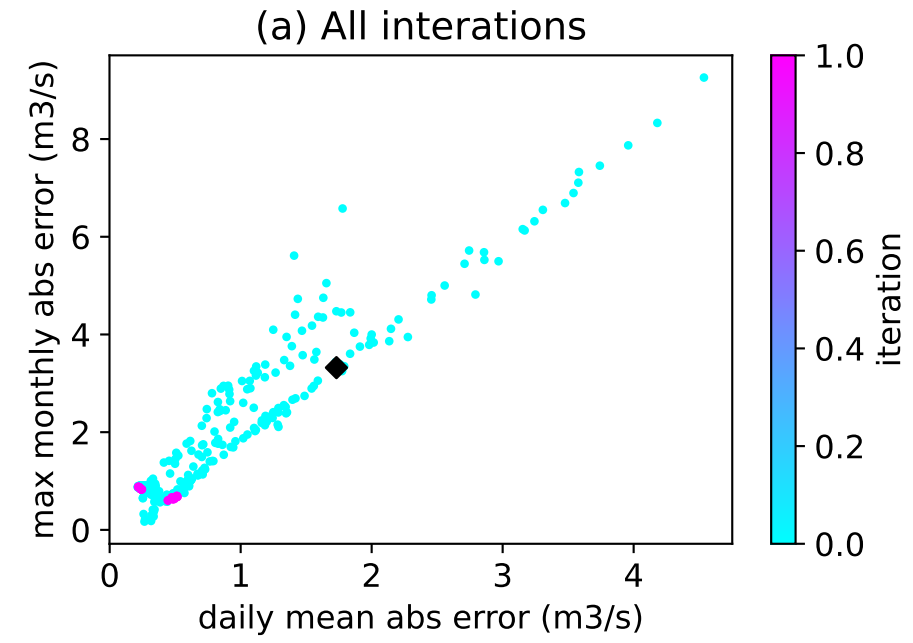


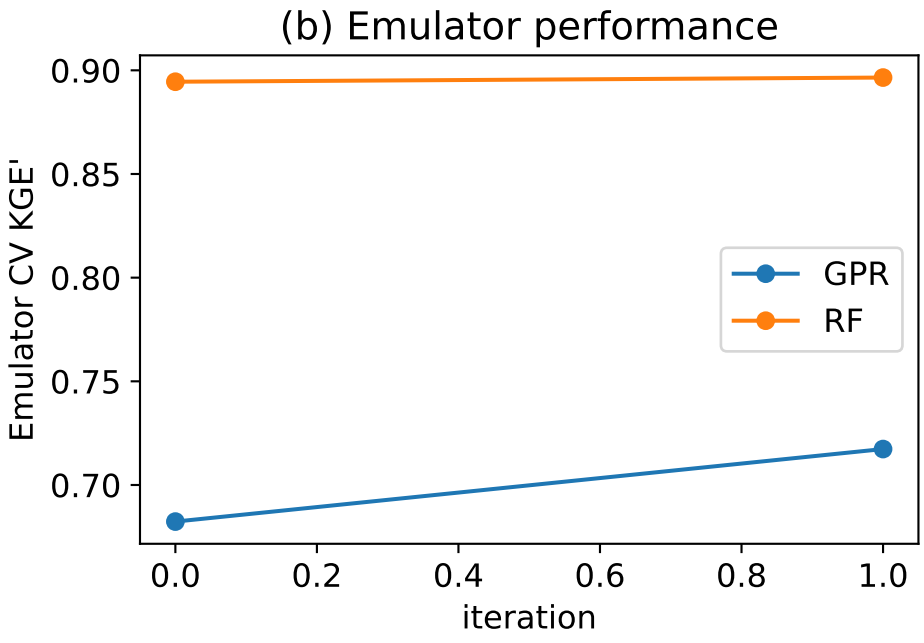


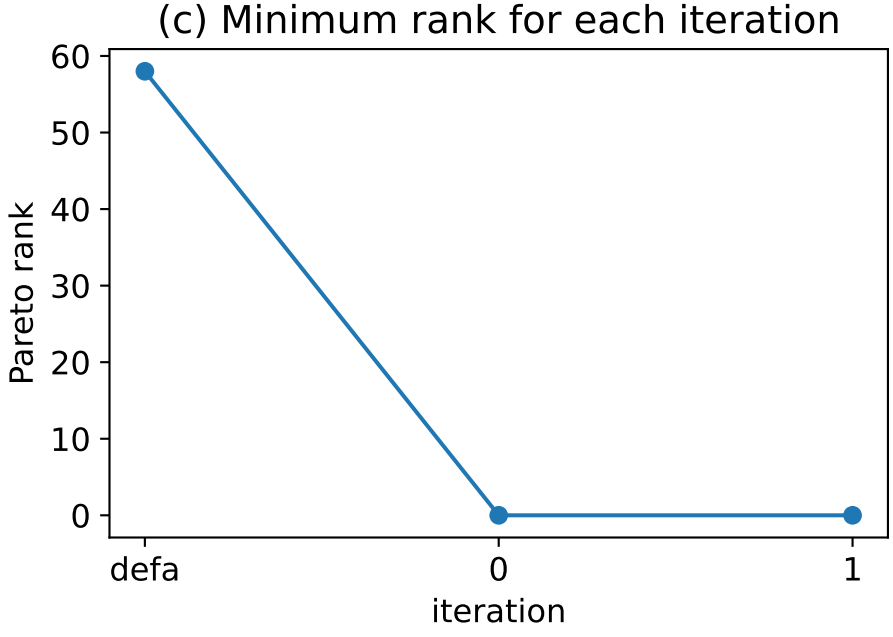


basinid: 438
hru_id: 8195000
lat_cen: 29.77502
lon_cen: -99.72608
AREA: 1009.90 km2
elev_mean: 596.78 m

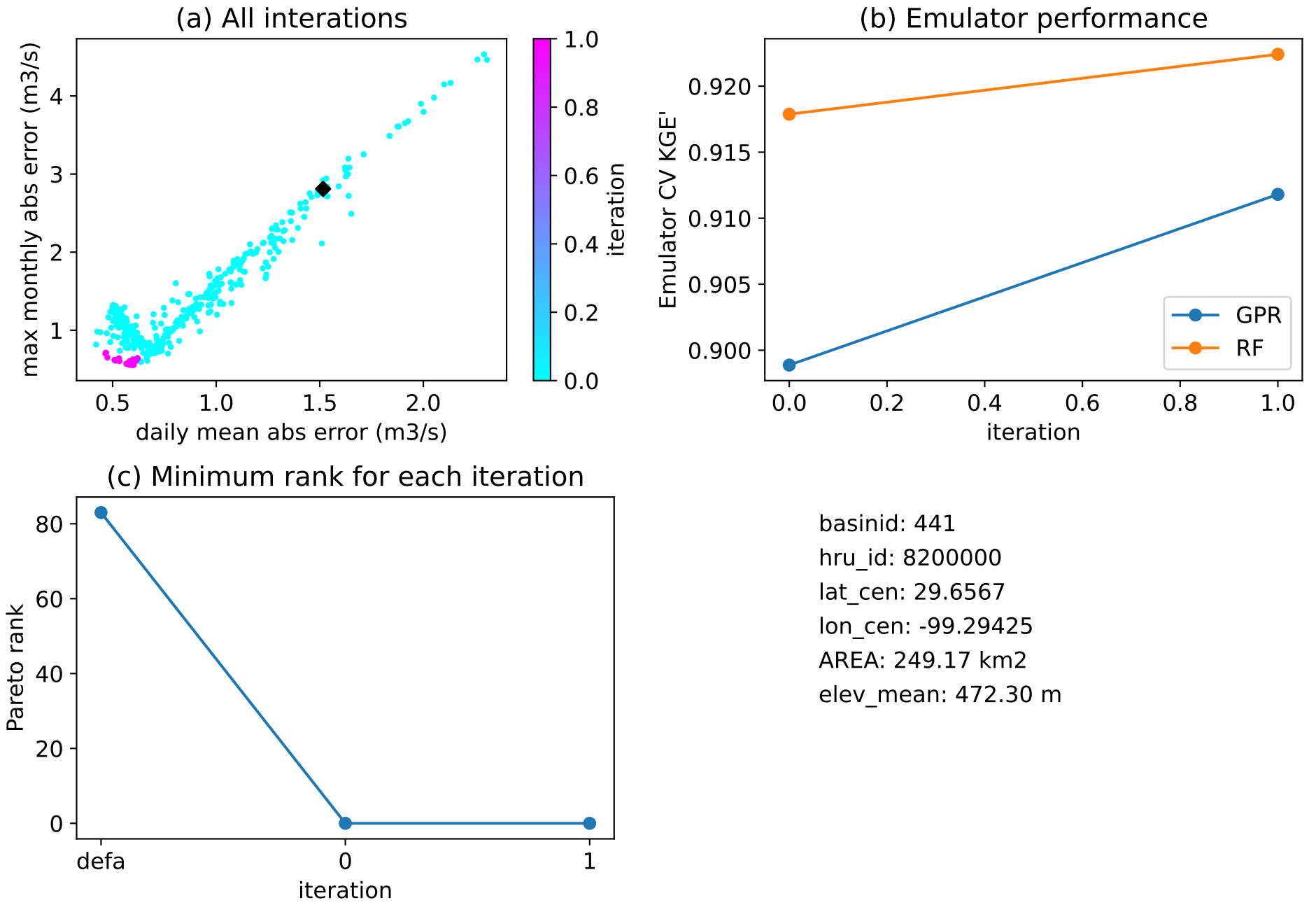

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 439
hru_id: 8196000
lat_cen: 29.61316
lon_cen: -99.85071
AREA: 344.49 km2
elev_mean: 561.40 m

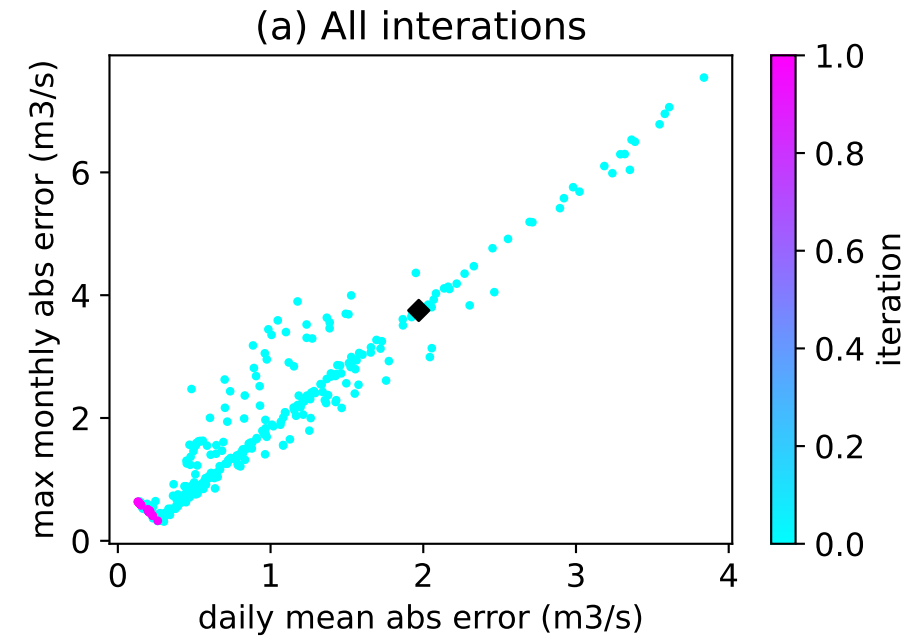


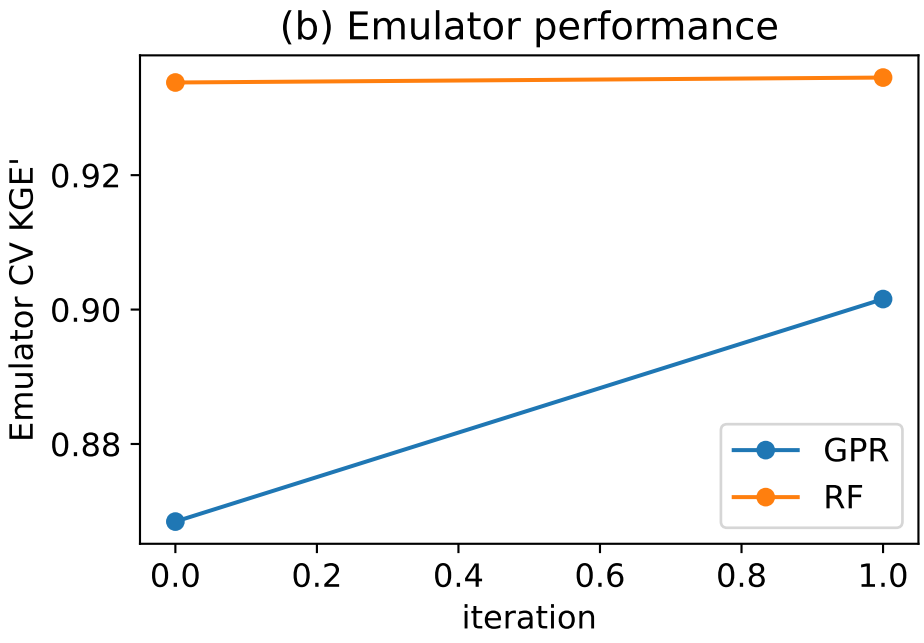


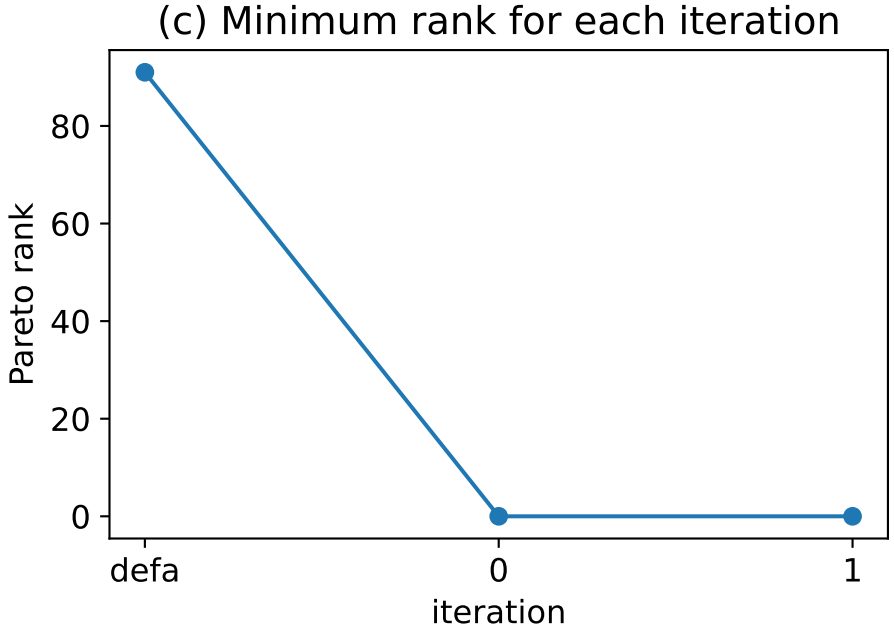


basinid: 440
hru_id: 8198500
lat_cen: 29.63586
lon_cen: -99.5361
AREA: 640.77 km2
elev_mean: 492.03 m

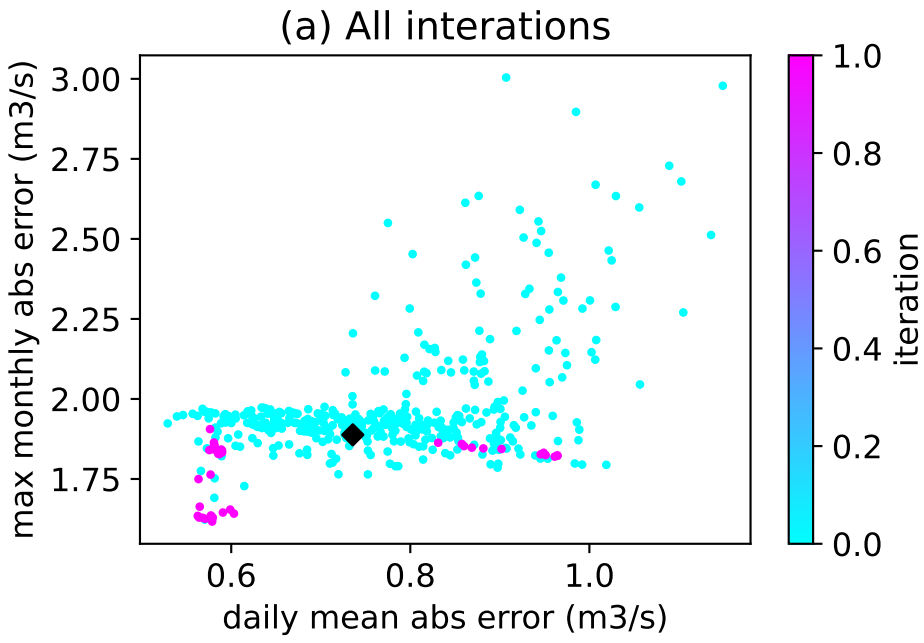

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 441
hru_id: 8200000
lat_cen: 29.6567
lon_cen: -99.29425
AREA: 249.17 km2
elev_mean: 472.30 m

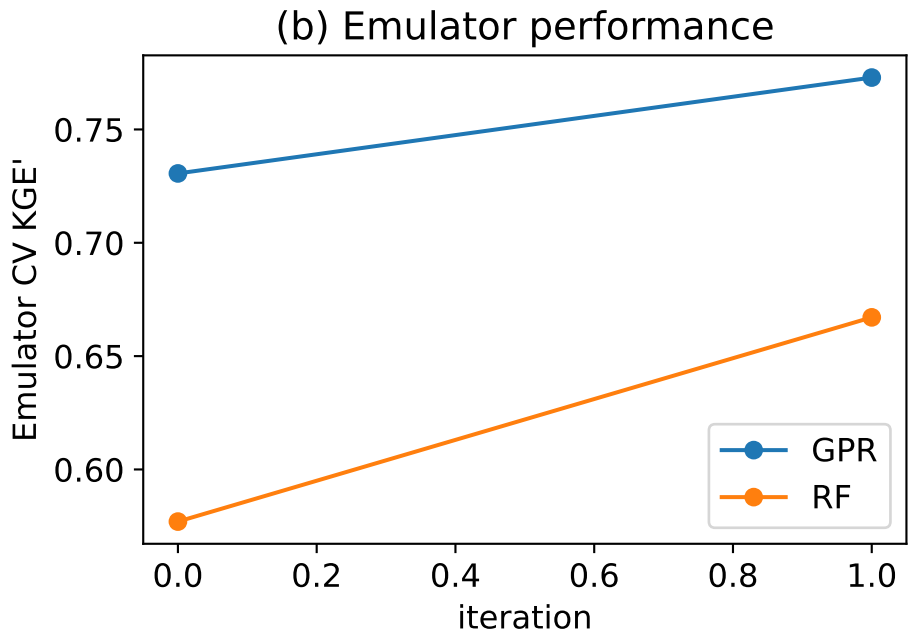


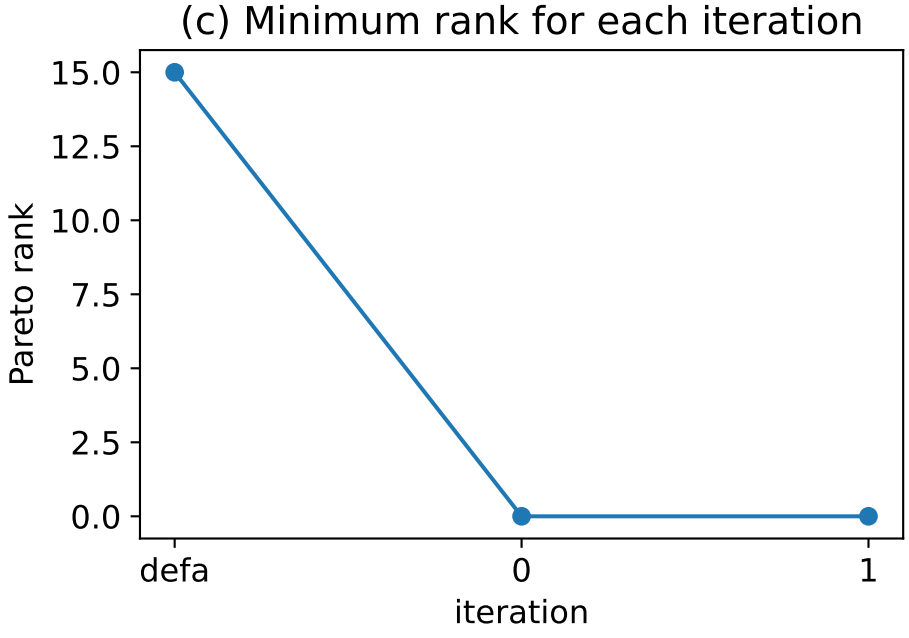




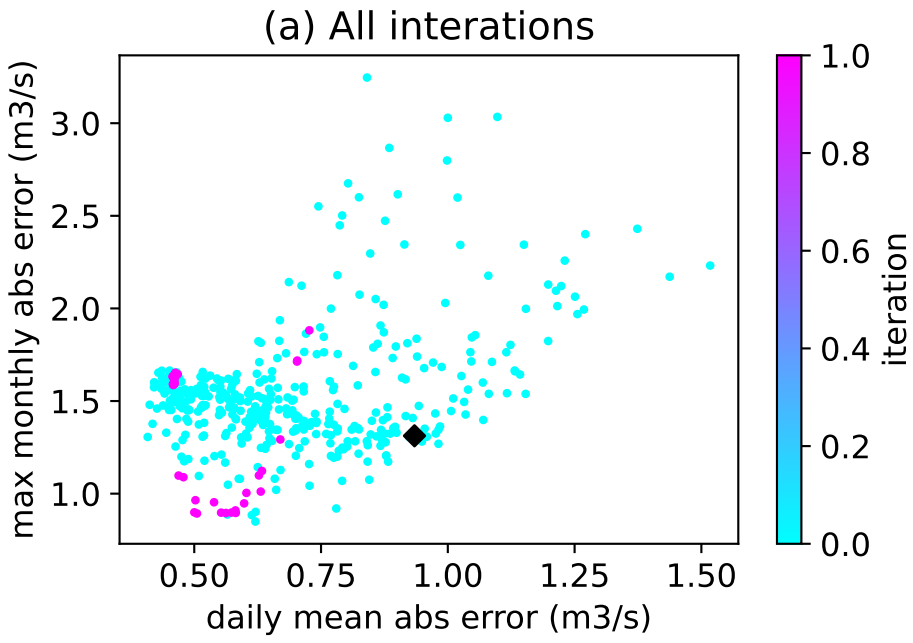
basinid: 442
hru_id: 8202700
lat_cen: 29.54658
lon_cen: -99.3681
AREA: 430.70 km2
elev_mean: 424.91 m

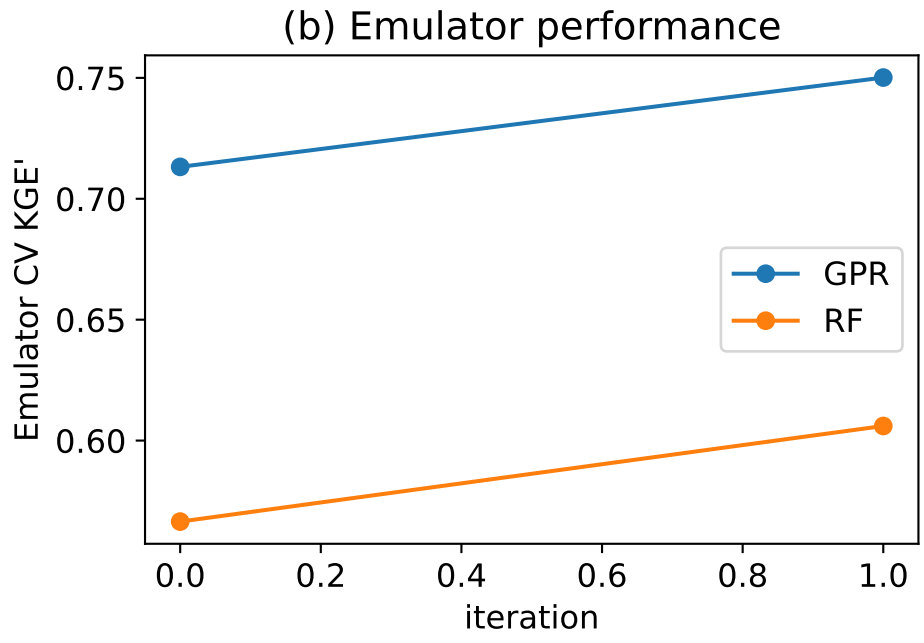


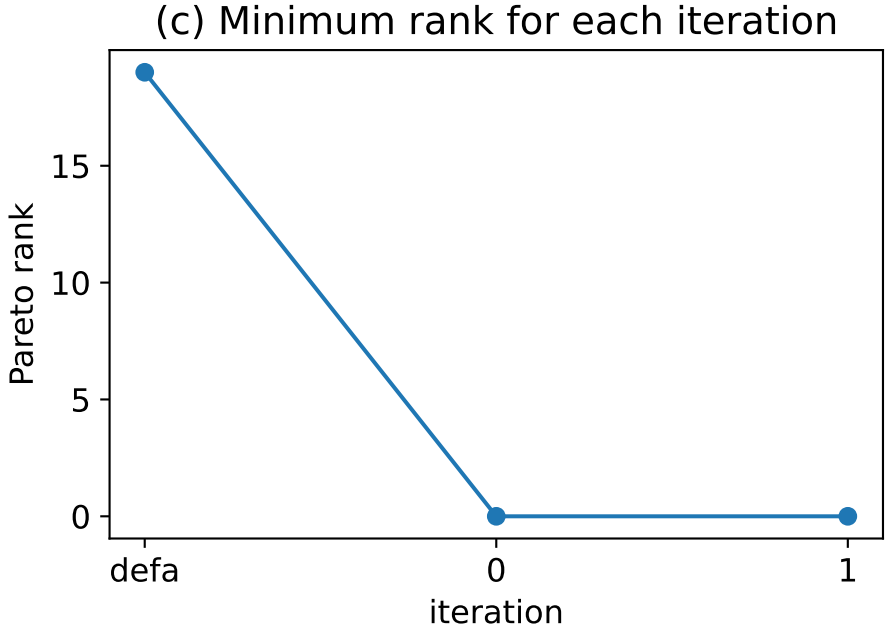




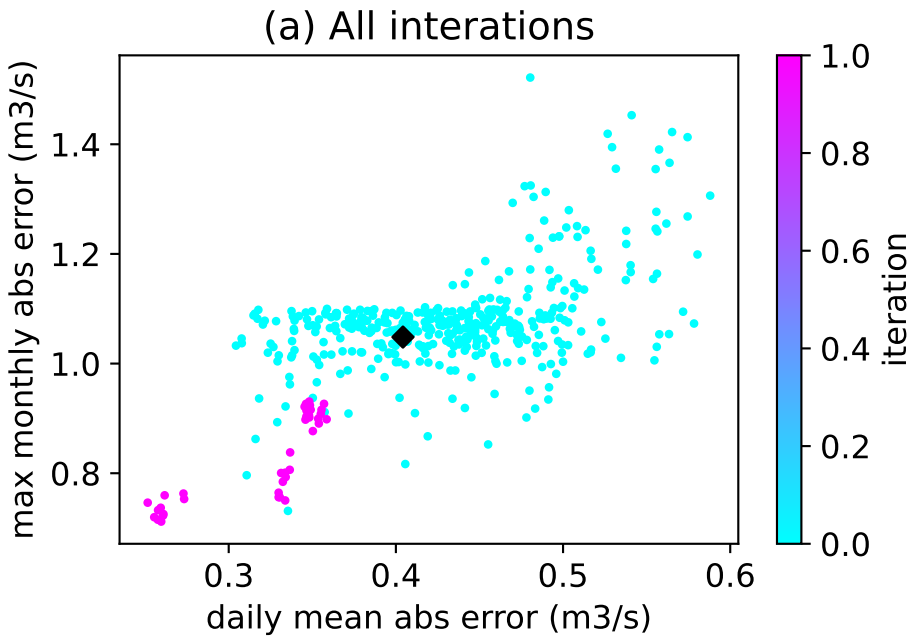
basinid: 443
hru_id: 8267500
lat_cen: 36.57883
lon_cen: -105.4843
AREA: 96.84 km2
elev_mean: 3158.24 m

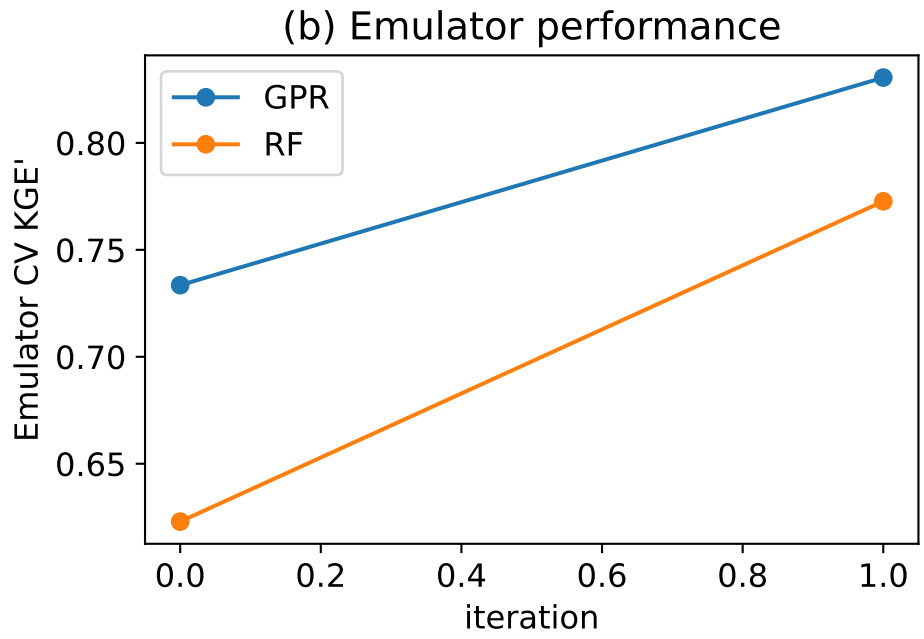


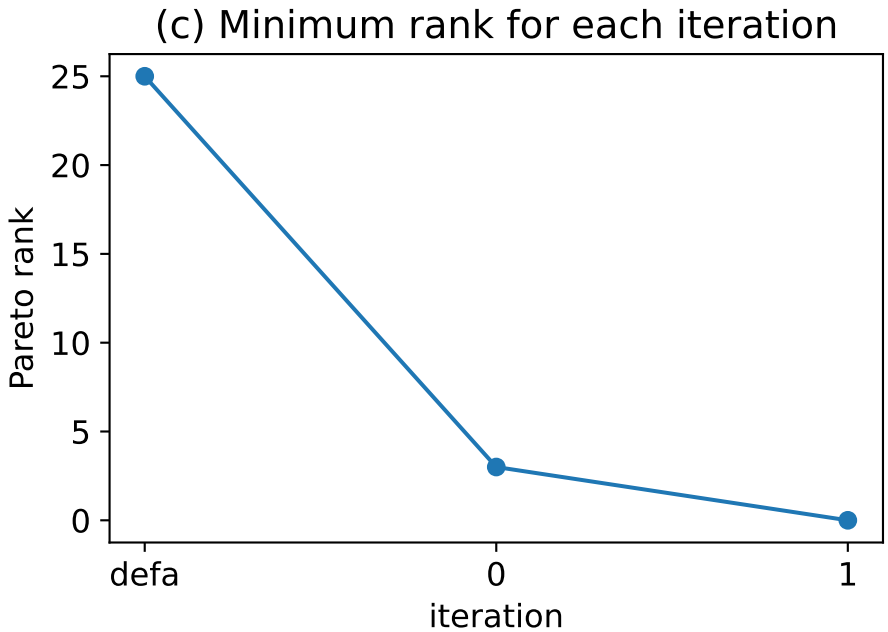




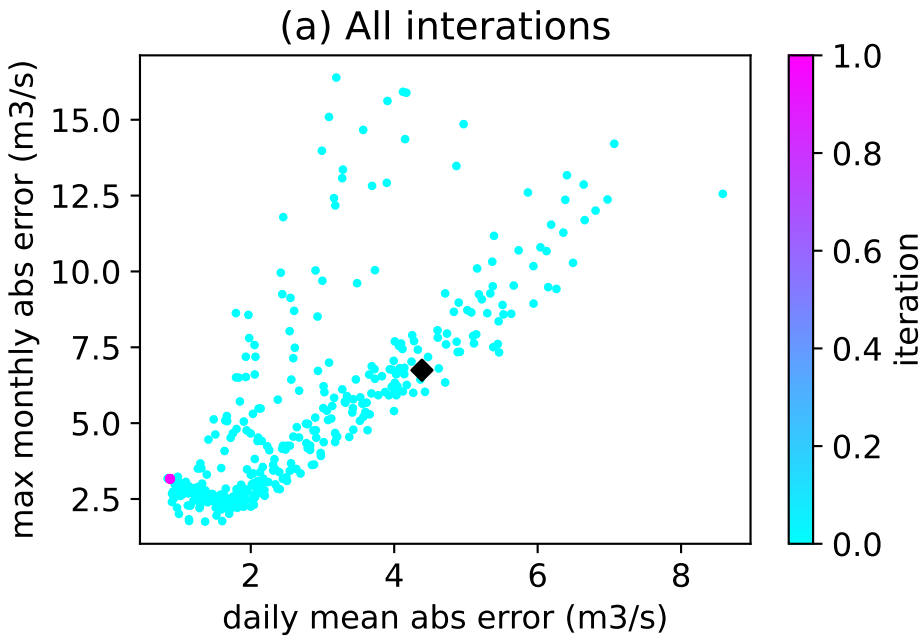
basinid: 444
hru_id: 8269000
lat_cen: 36.46765
lon_cen: -105.41104
AREA: 163.29 km2
elev_mean: 2923.33 m

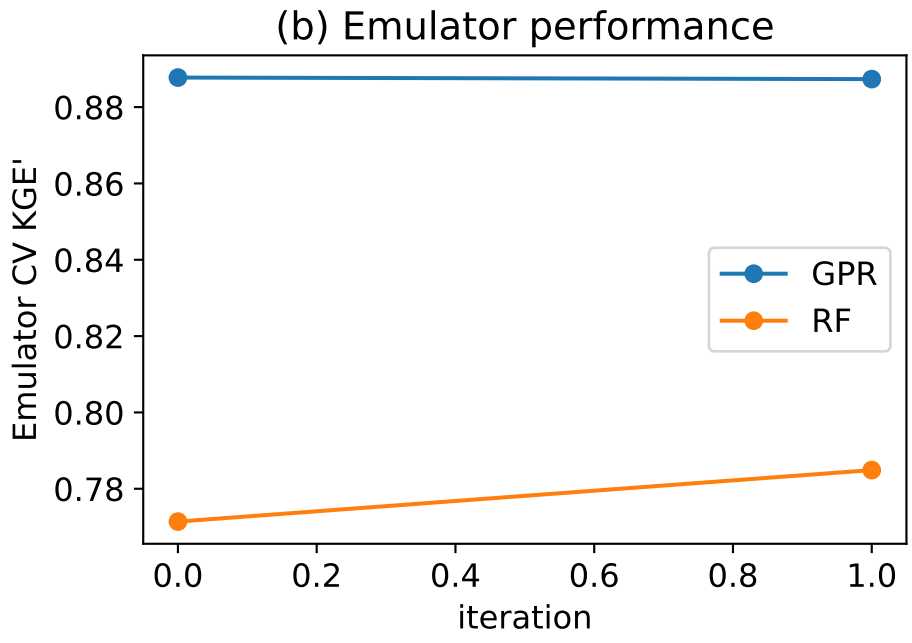


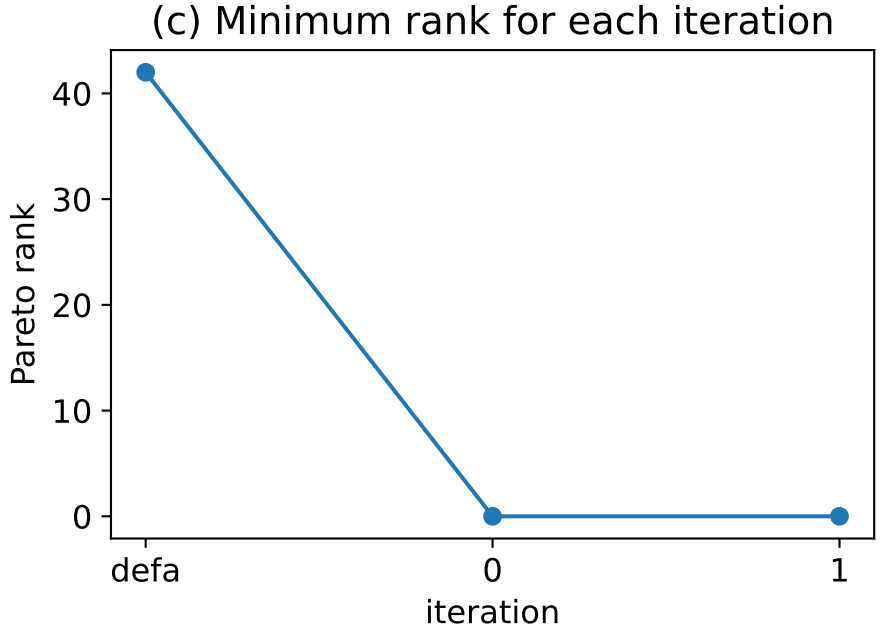




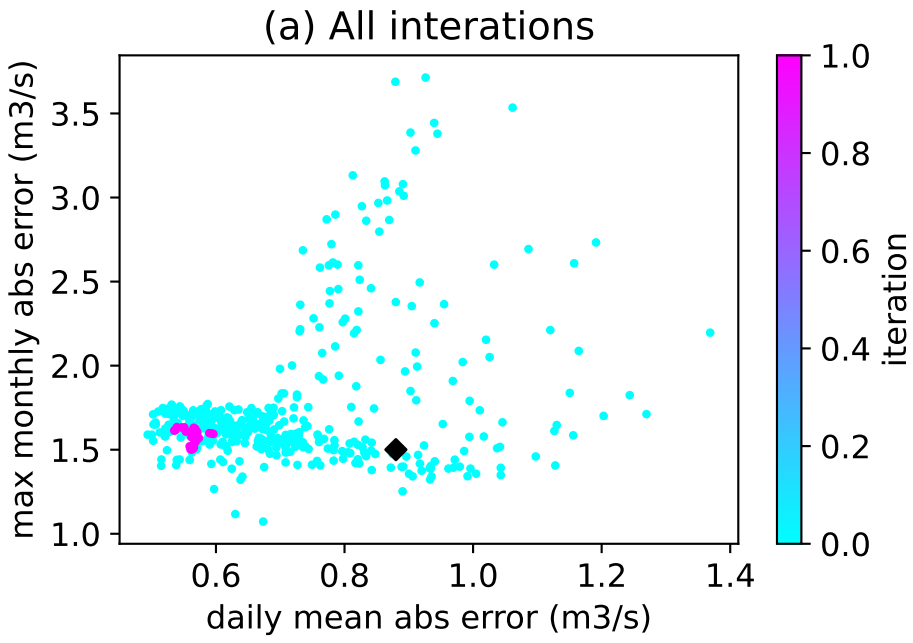
basinid: 445
hru_id: 8271000
lat_cen: 36.51731
lon_cen: -105.46379
AREA: 46.39 km2
elev_mean: 3184.64 m

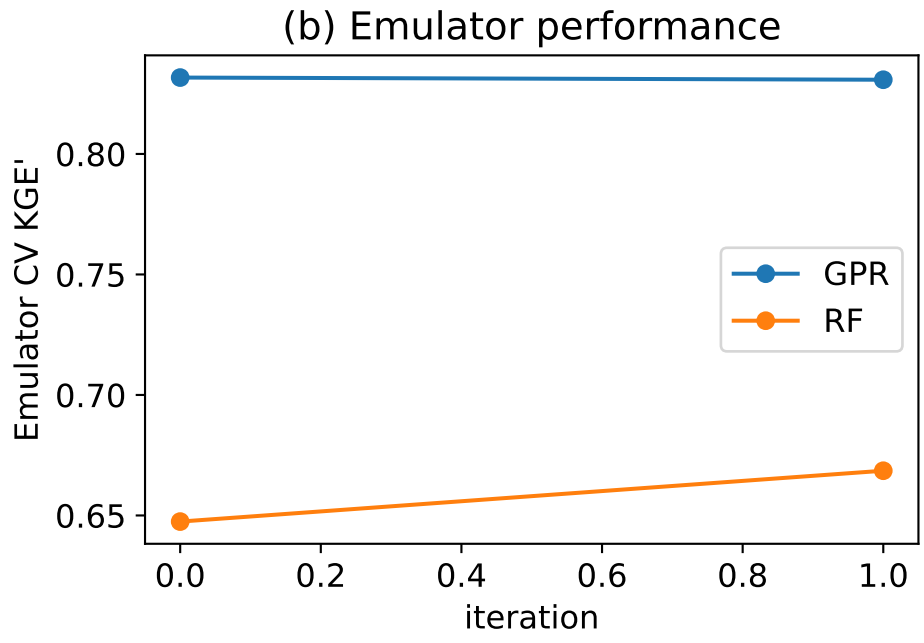


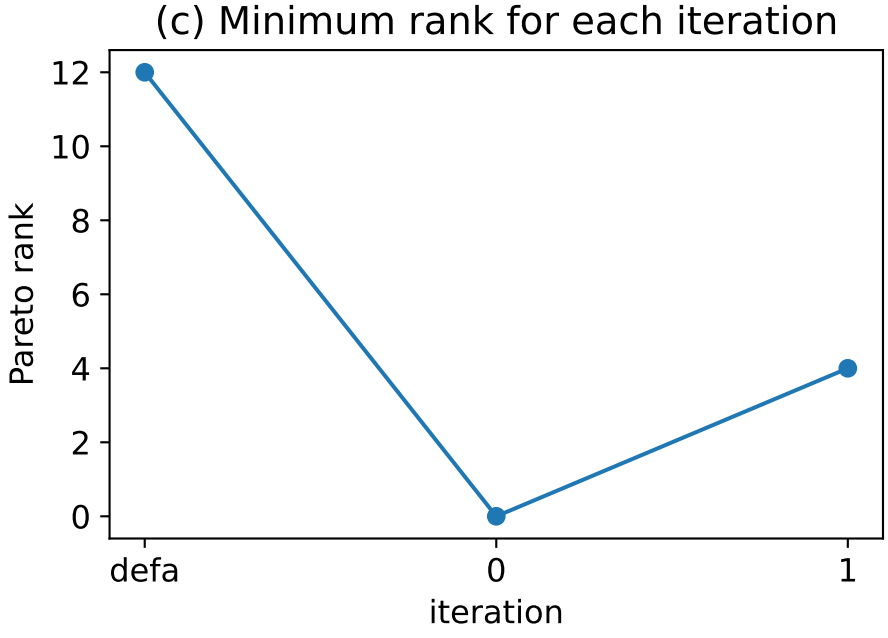




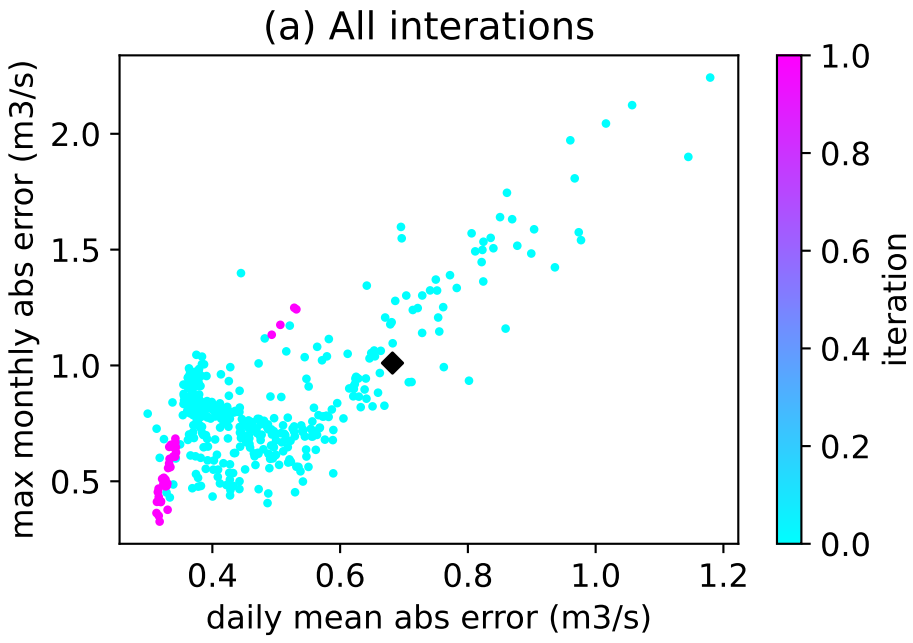
basinid: 446
hru_id: 8324000
lat_cen: 35.89207
lon_cen: -106.67371
AREA: 1222.22 km2
elev_mean: 2590.59 m

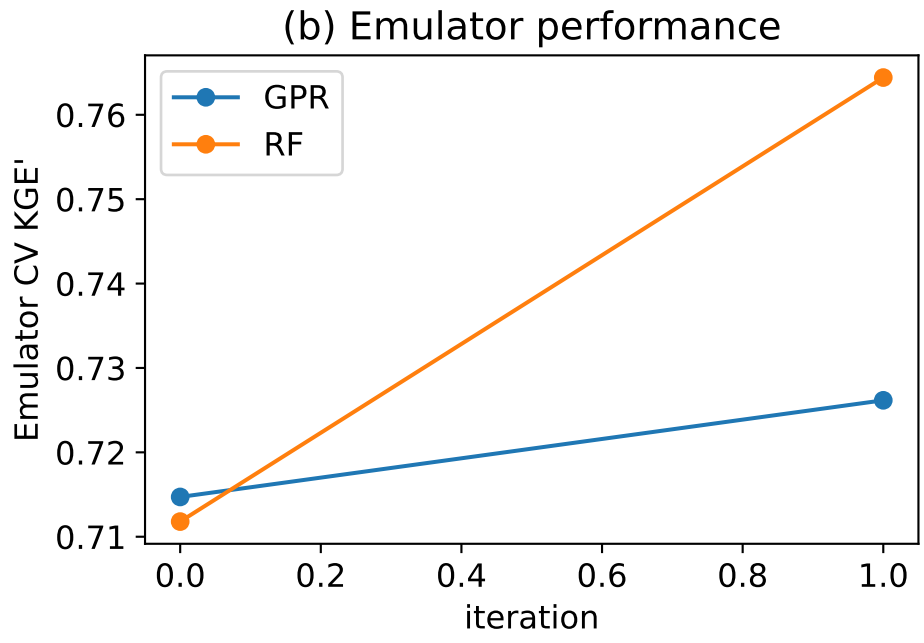


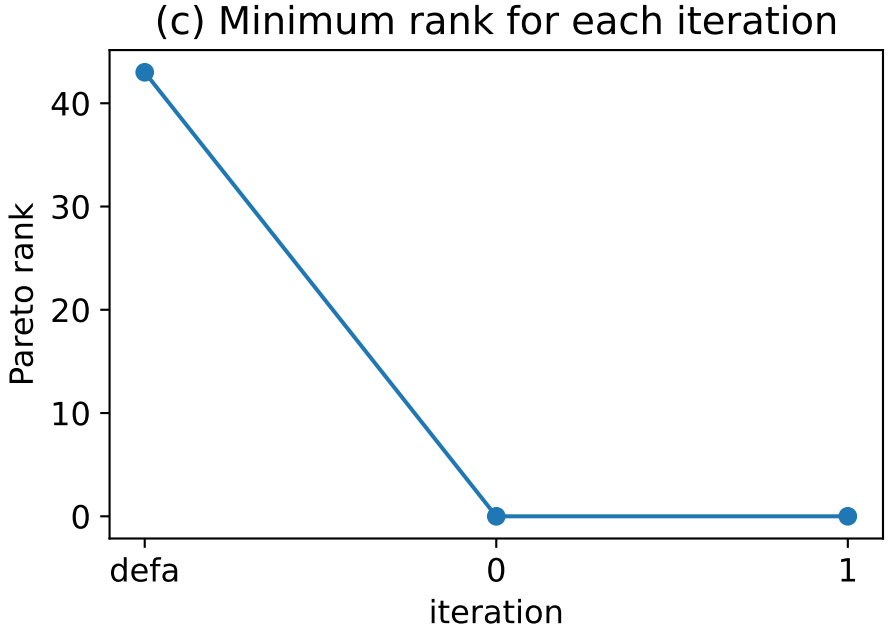




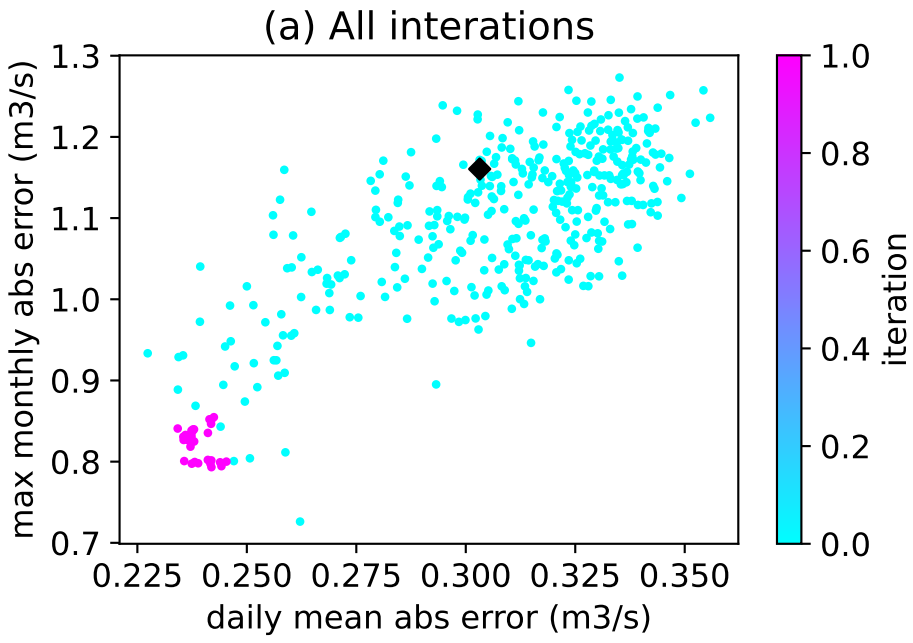
basinid: 447
hru_id: 8377900
lat_cen: 35.8574
lon_cen: -105.56471
AREA: 139.09 km2
elev_mean: 3109.81 m

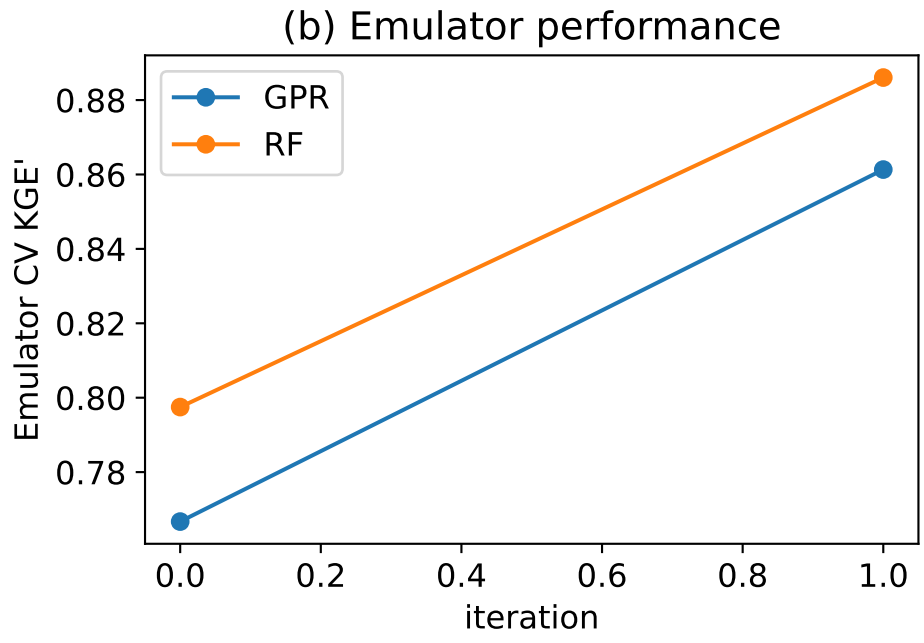


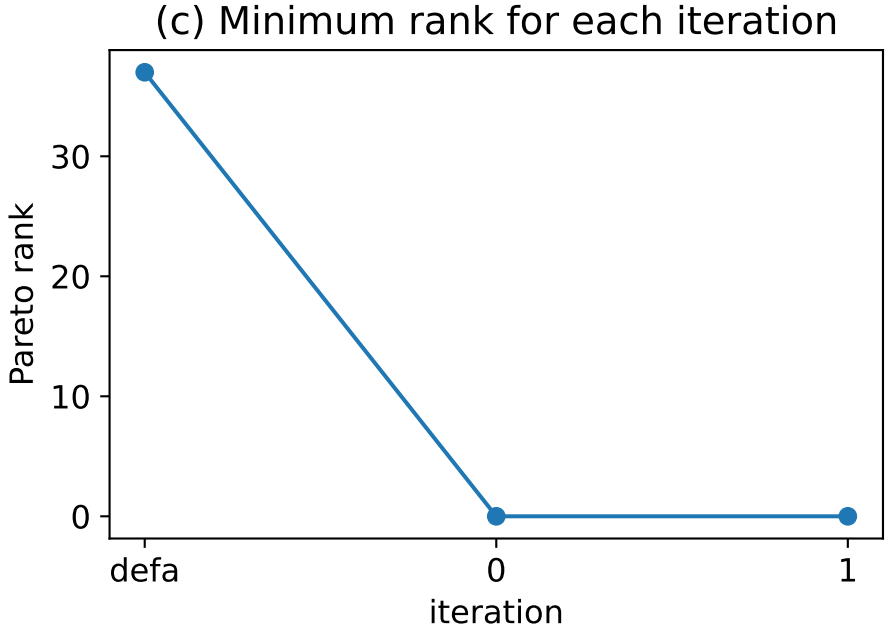




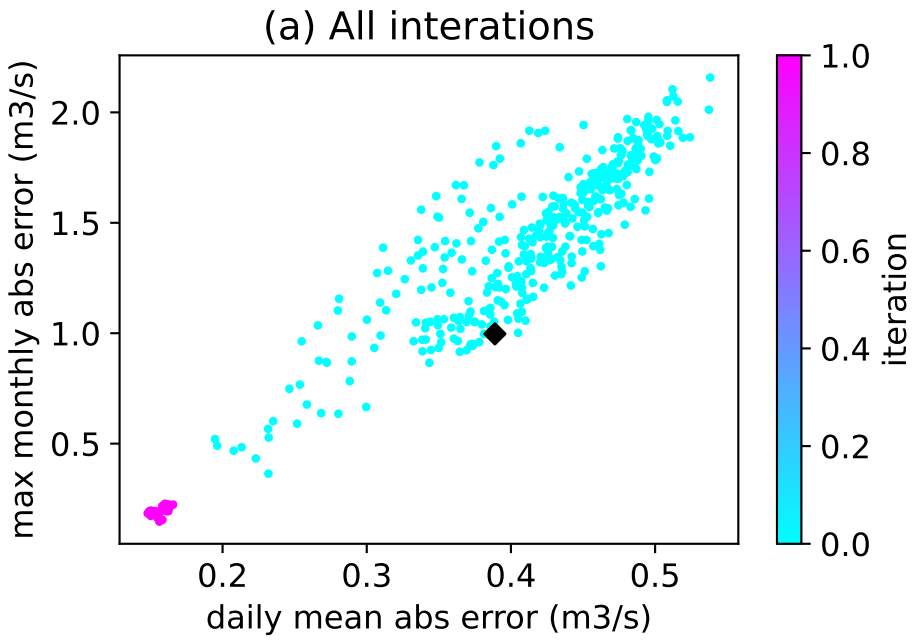
basinid: 448
hru_id: 8380500
lat_cen: 35.72501
lon_cen: -105.43926
AREA: 199.62 km2
elev_mean: 2648.57 m

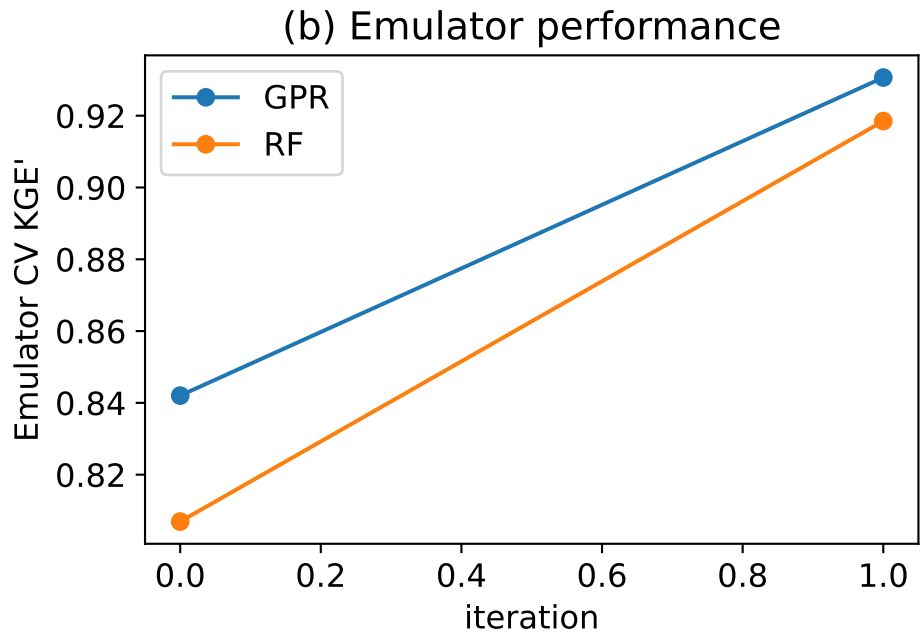


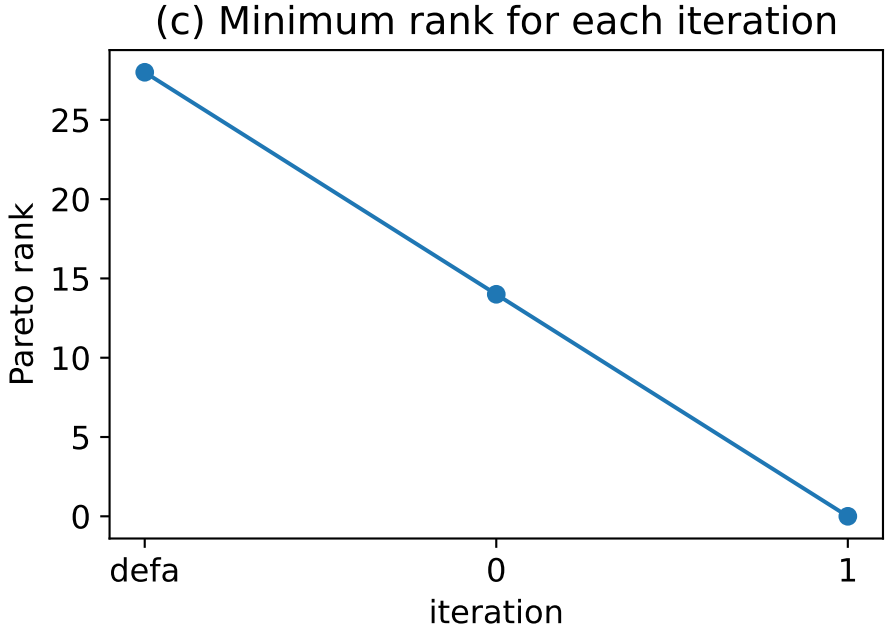




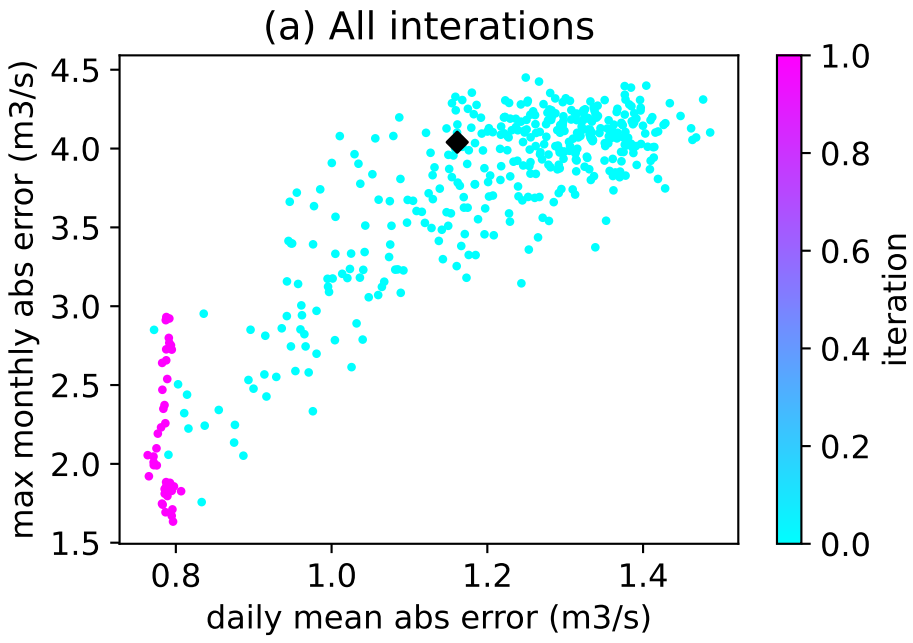
basinid: 449
hru_id: 9034900
lat_cen: 39.74828
lon_cen: -105.90659
AREA: 21.40 km2
elev_mean: 3529.14 m

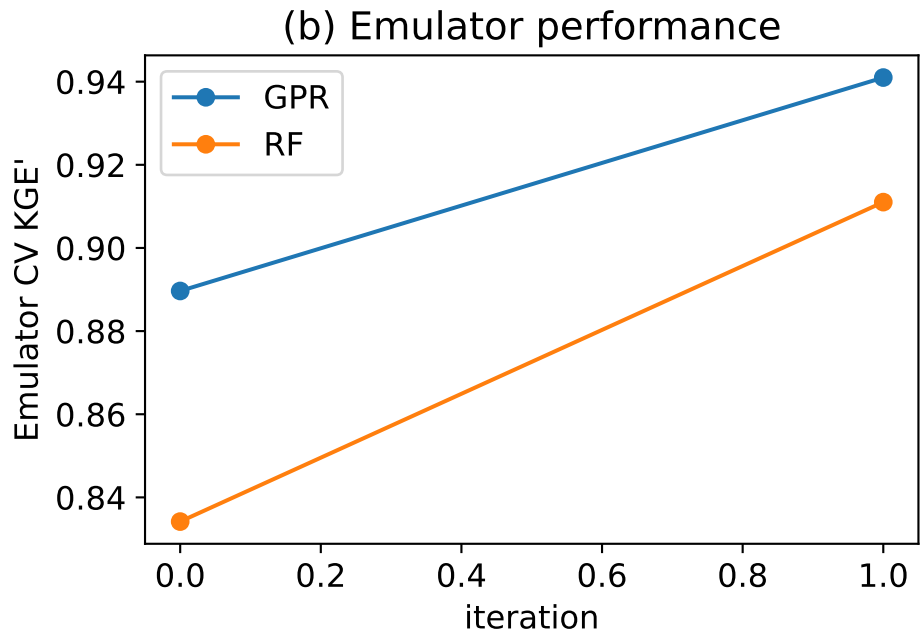


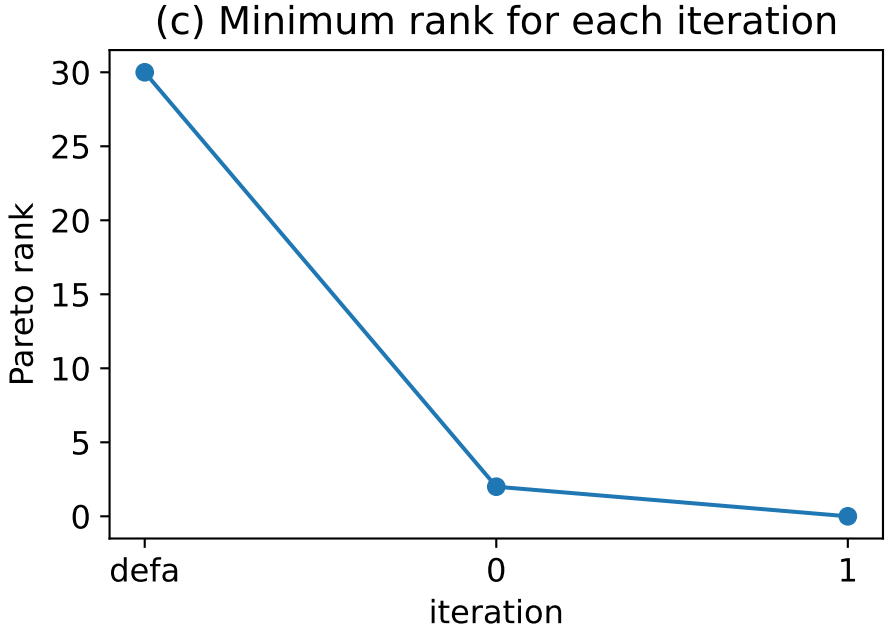




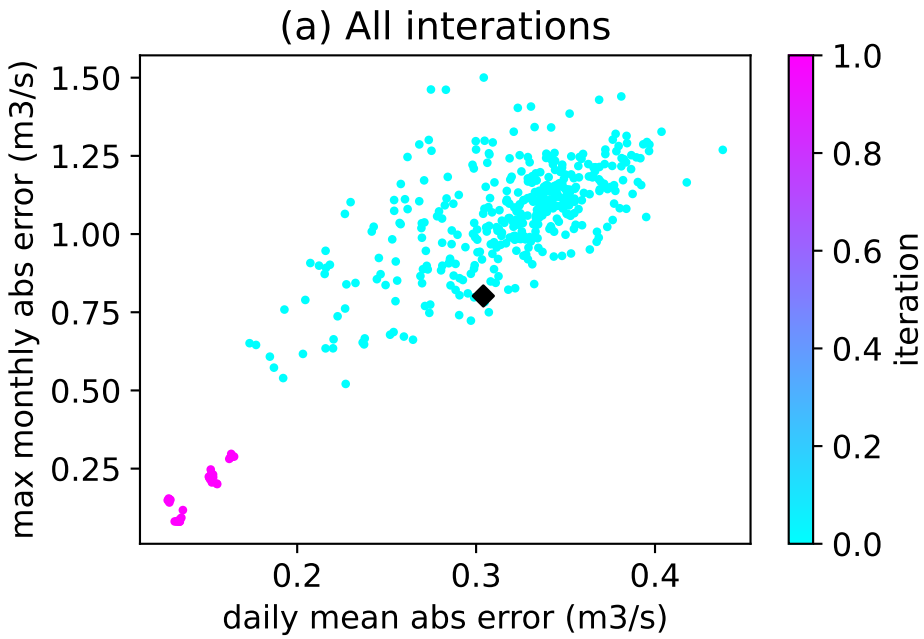
basinid: 450
hru_id: 9035800
lat_cen: 39.81809
lon_cen: -105.98585
AREA: 22.91 km2
elev_mean: 3283.73 m

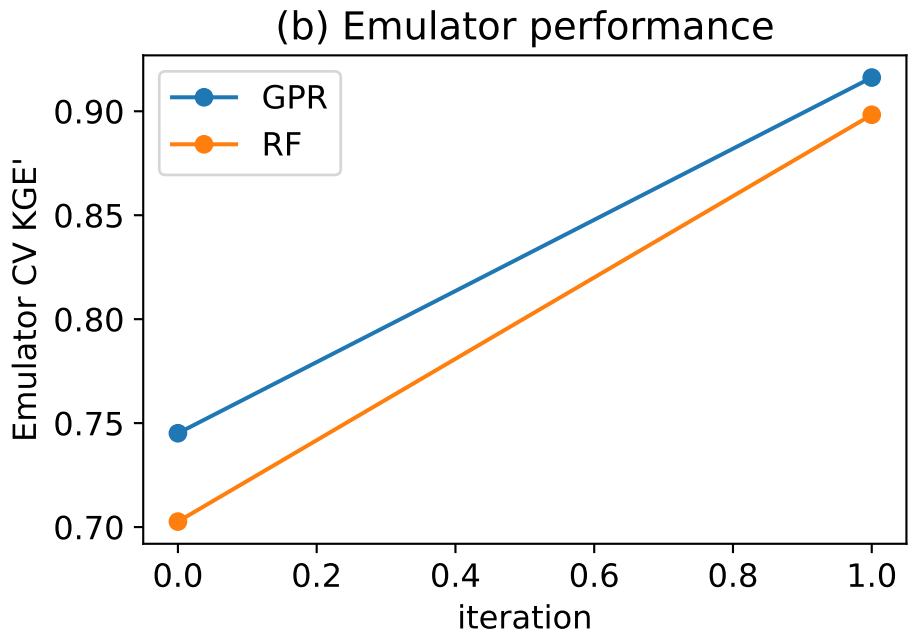


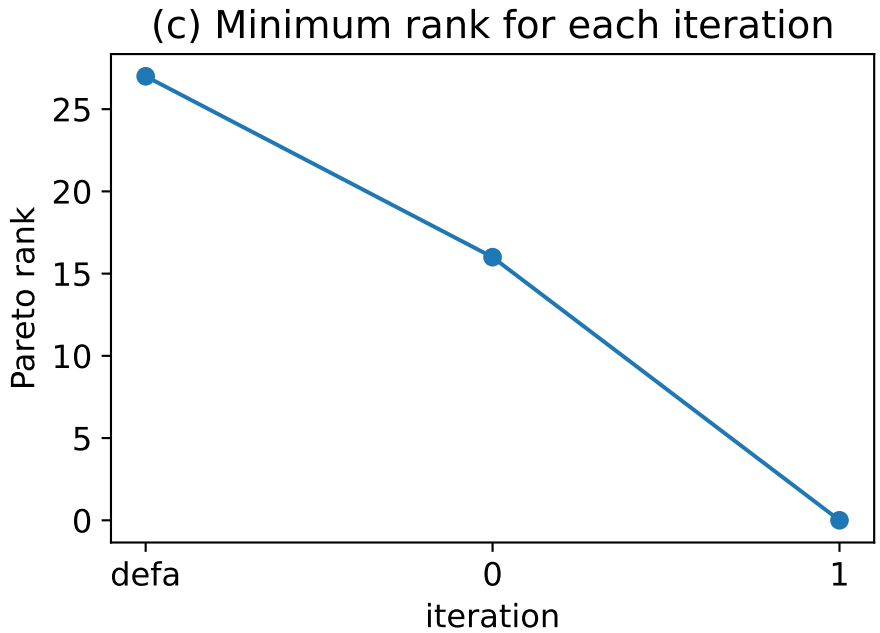




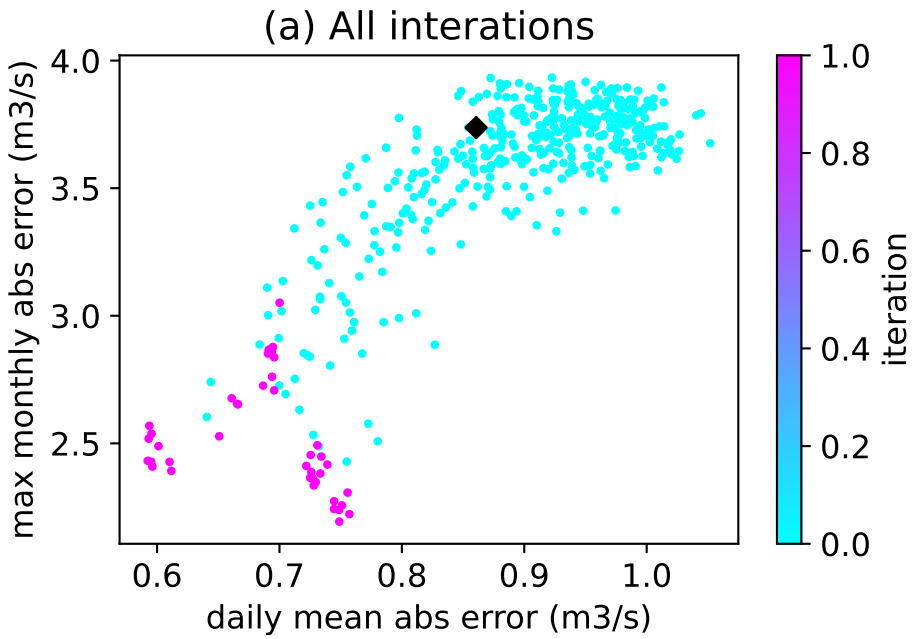
basinid: 451
hru_id: 9035900
lat_cen: 39.73013
lon_cen: -106.0091
AREA: 71.67 km2
elev_mean: 3359.53 m

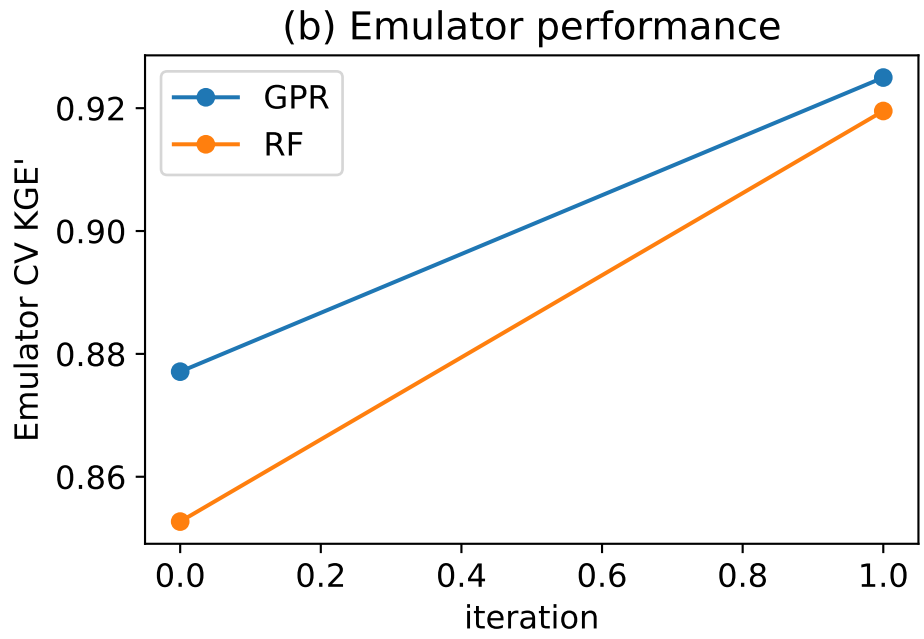


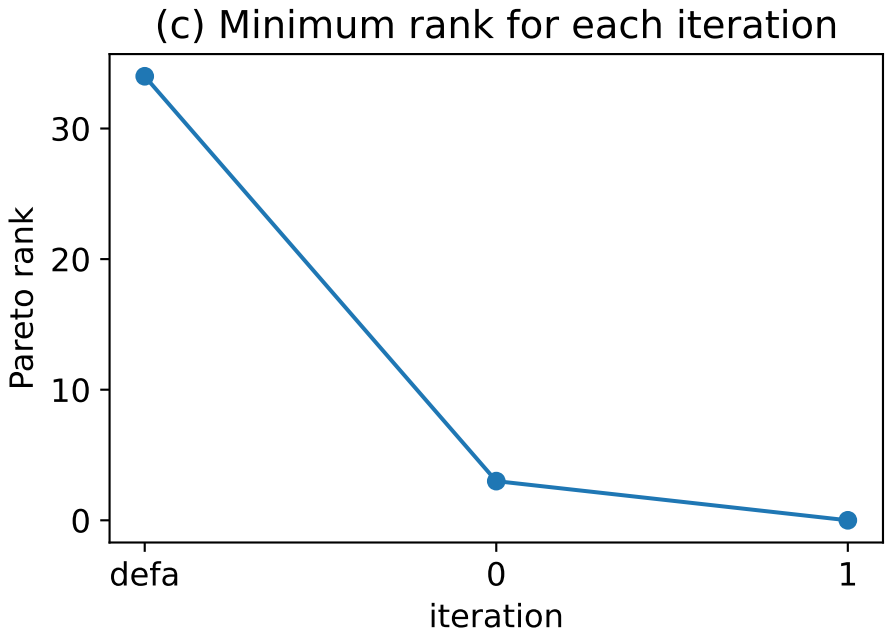




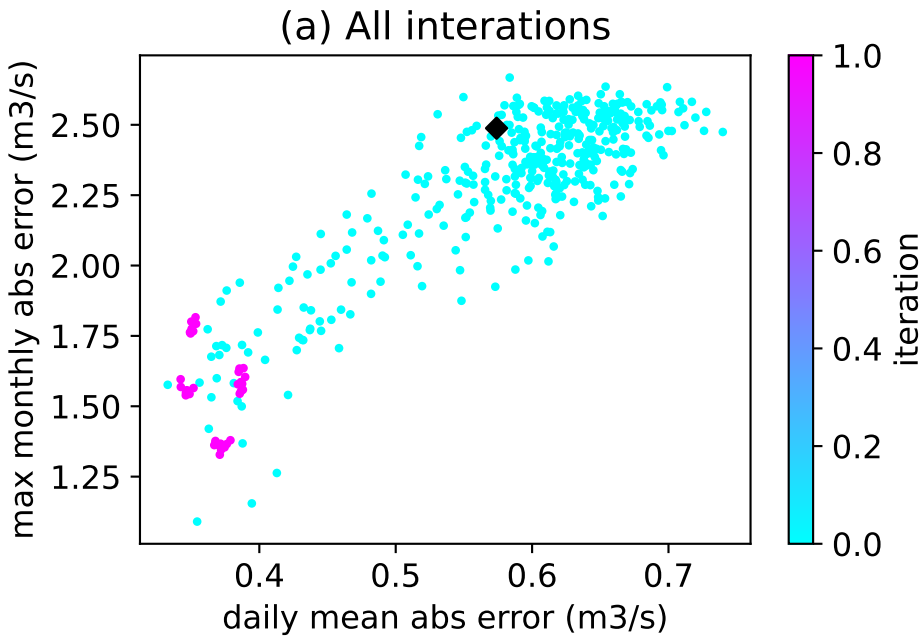
basinid: 452
hru_id: 9047700
lat_cen: 39.56378
lon_cen: -105.94456
AREA: 24.37 km2
elev_mean: 3257.25 m

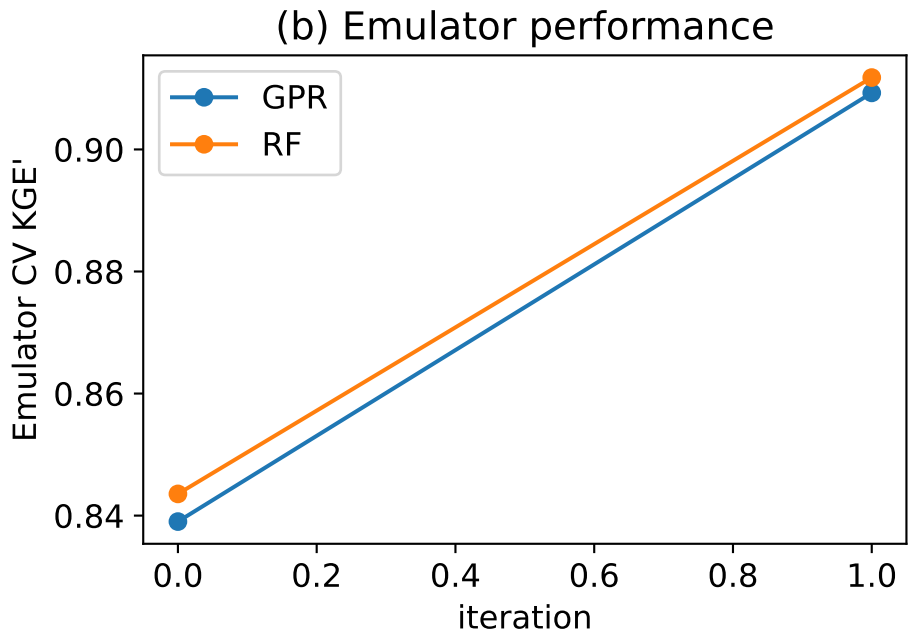


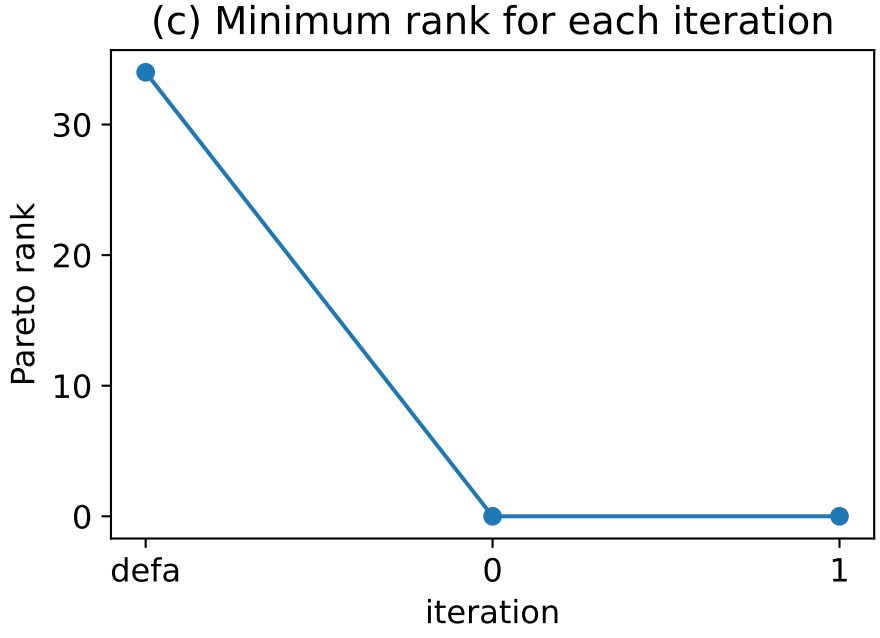




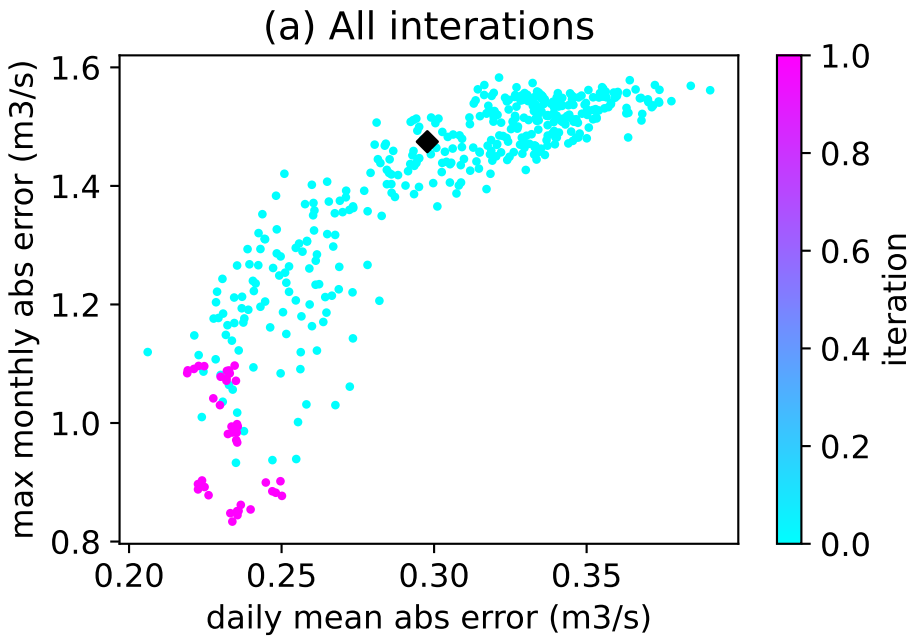
basinid: 453
hru_id: 9065500
lat_cen: 39.63208
lon_cen: -106.22102
AREA: 37.81 km2
elev_mean: 3371.95 m

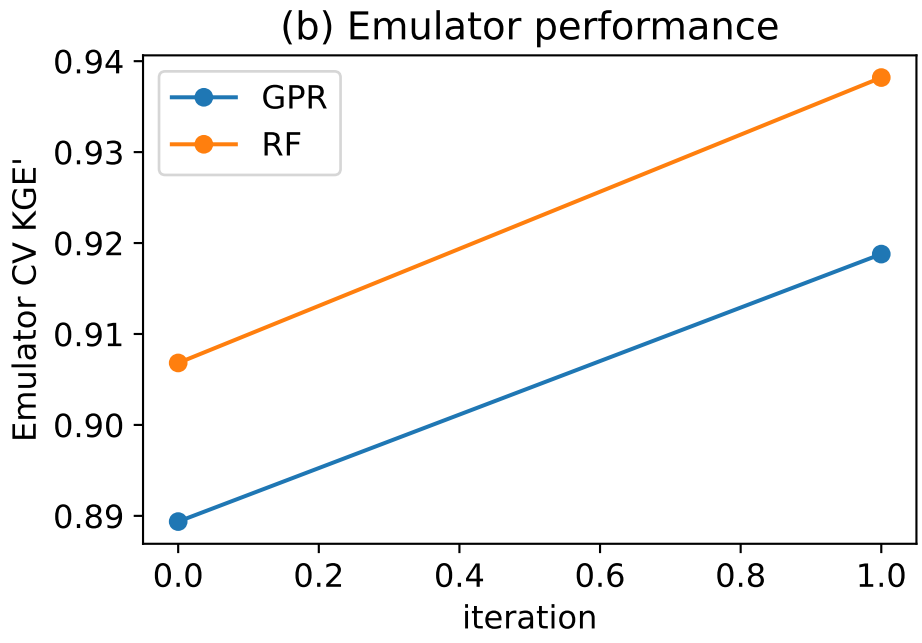


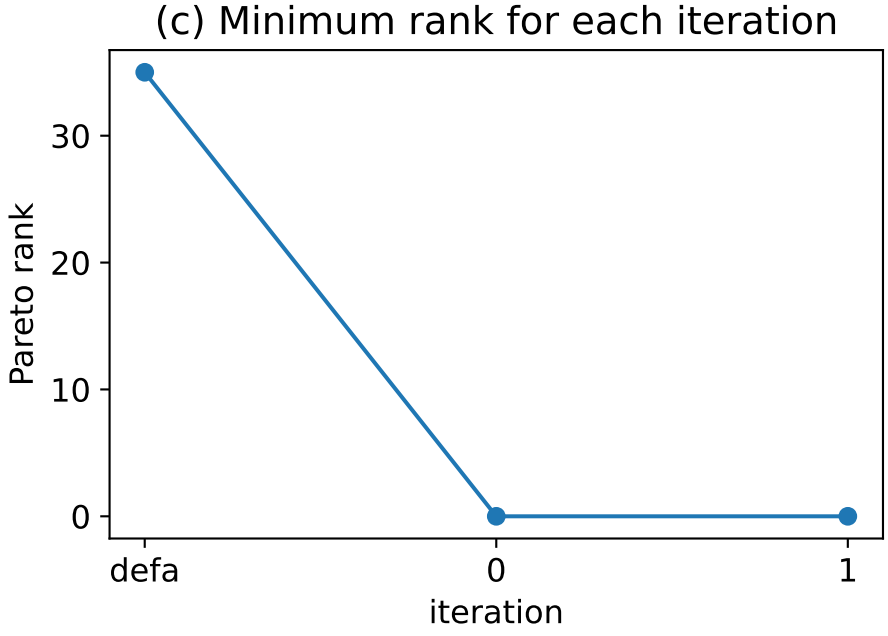




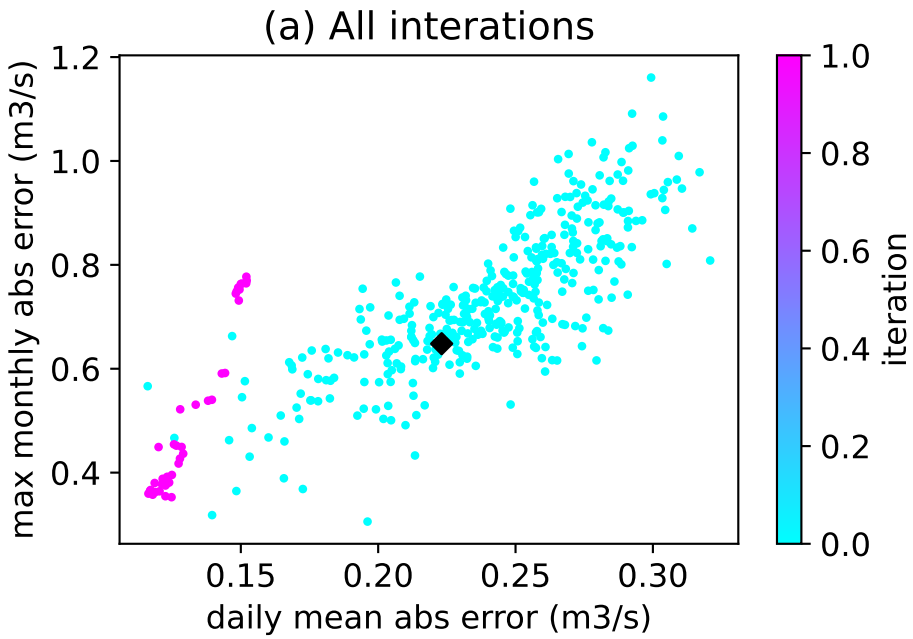
basinid: 454
hru_id: 9066000
lat_cen: 39.57866
lon_cen: -106.23261
AREA: 32.63 km2
elev_mean: 3249.56 m

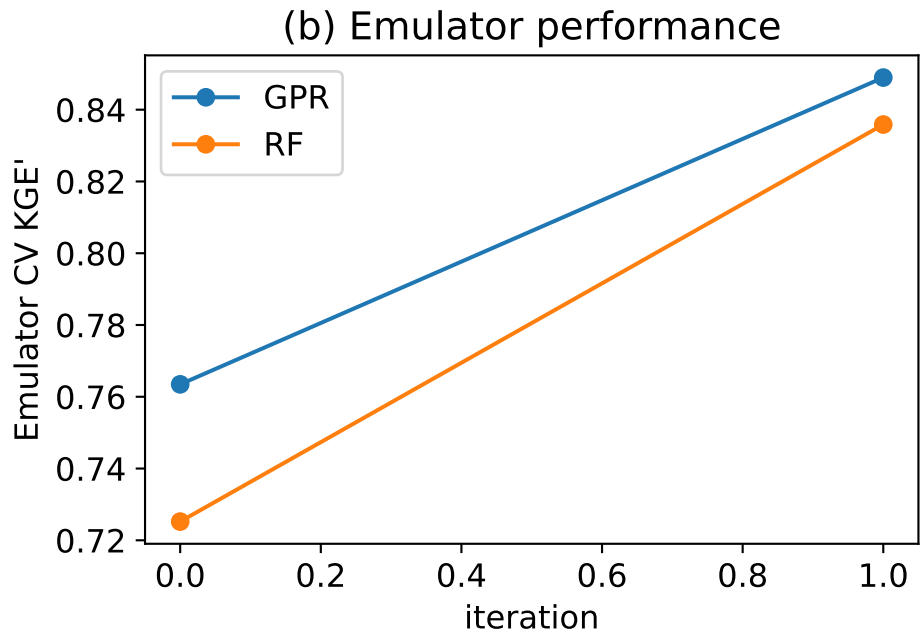


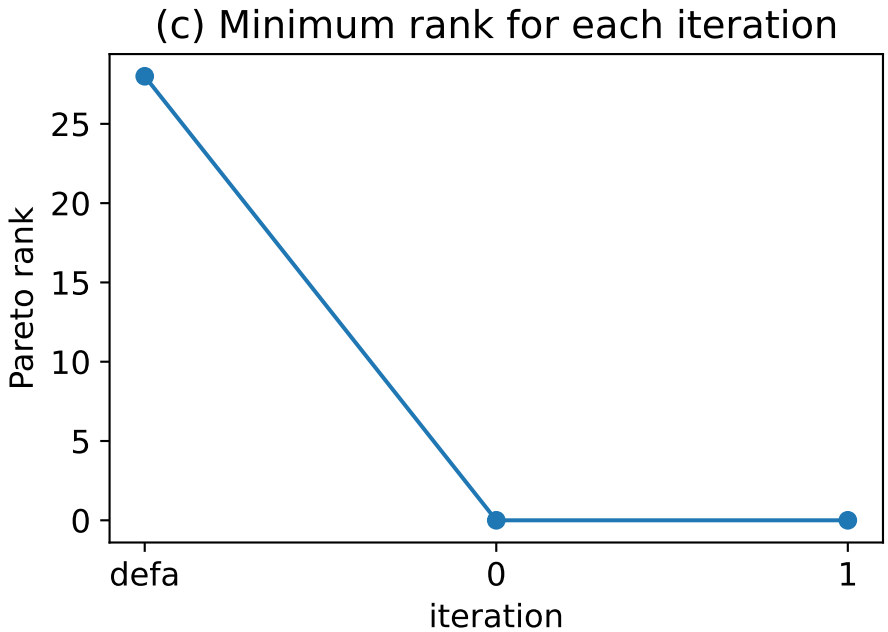




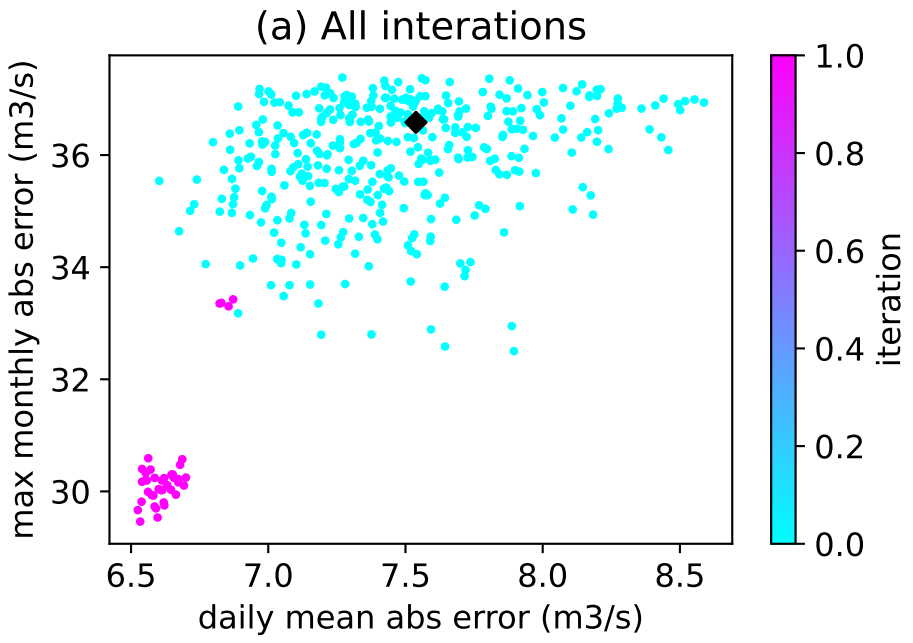
basinid: 455
hru_id: 9066200
lat_cen: 39.67954
lon_cen: -106.31259
AREA: 16.12 km2
elev_mean: 3310.38 m

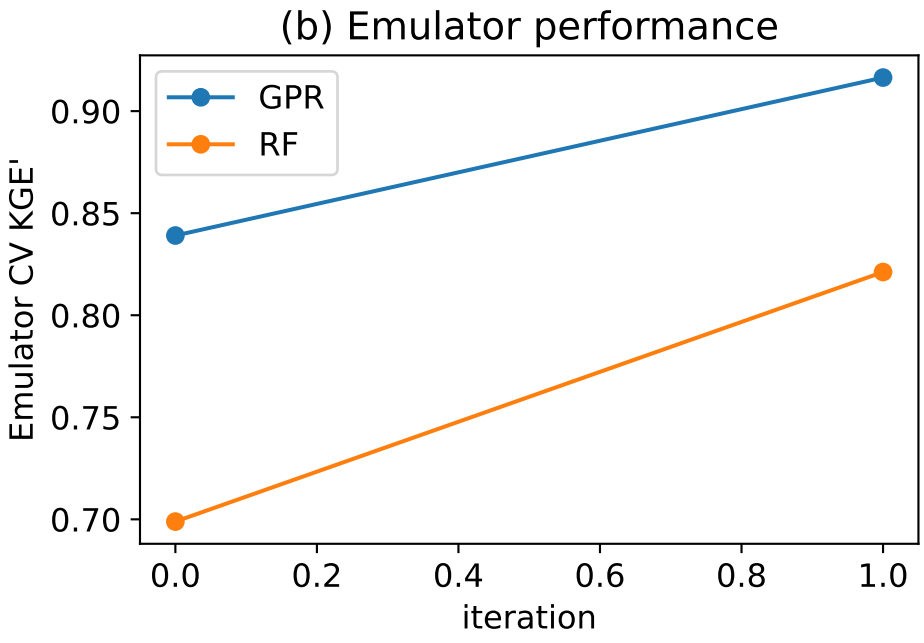


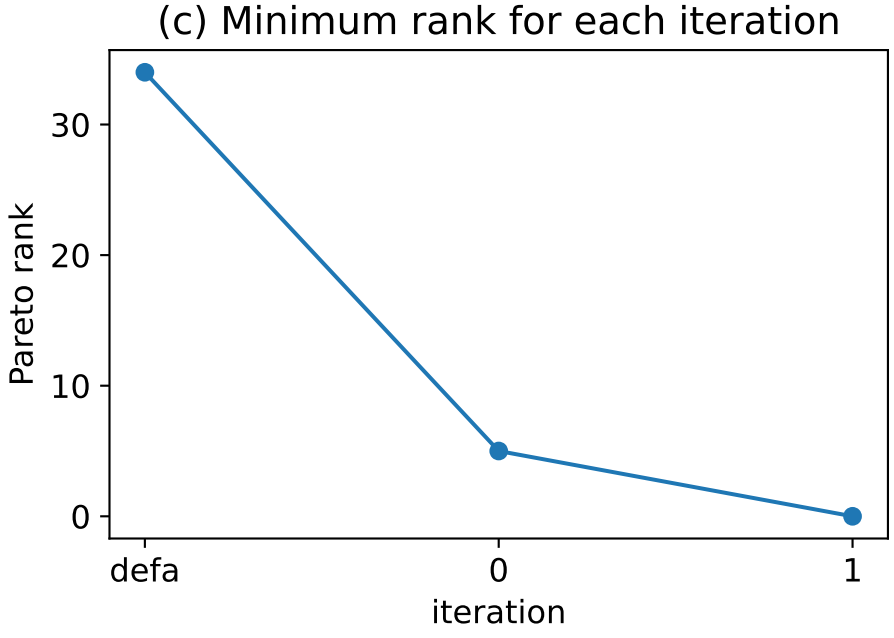




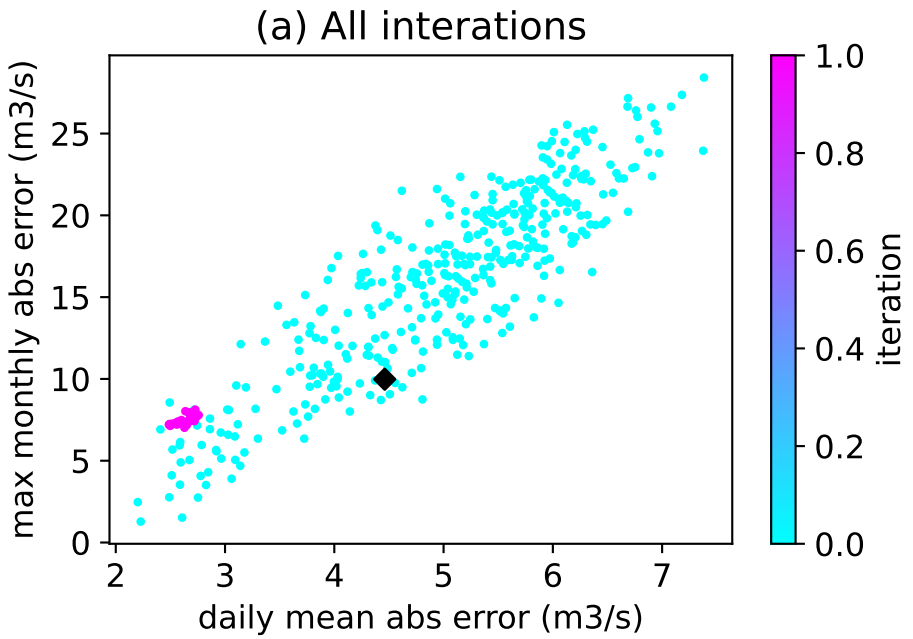
basinid: 456
hru_id: 9066300
lat_cen: 39.67818
lon_cen: -106.35886
AREA: 15.68 km2
elev_mean: 3132.38 m

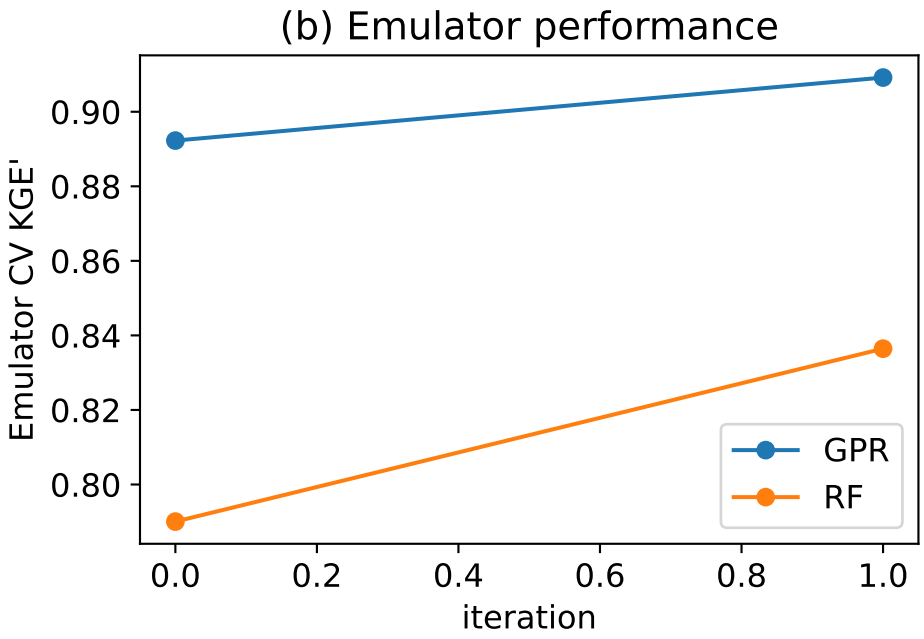


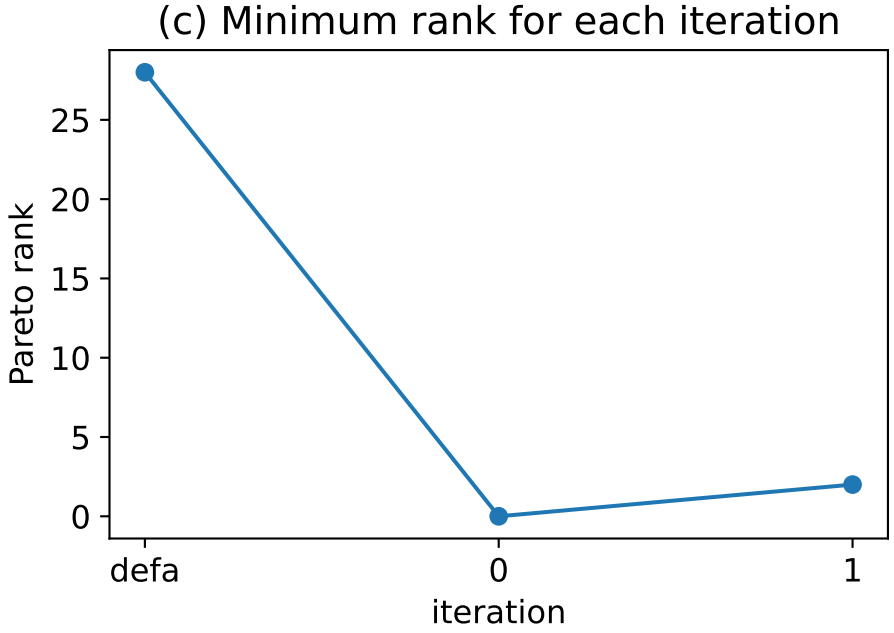




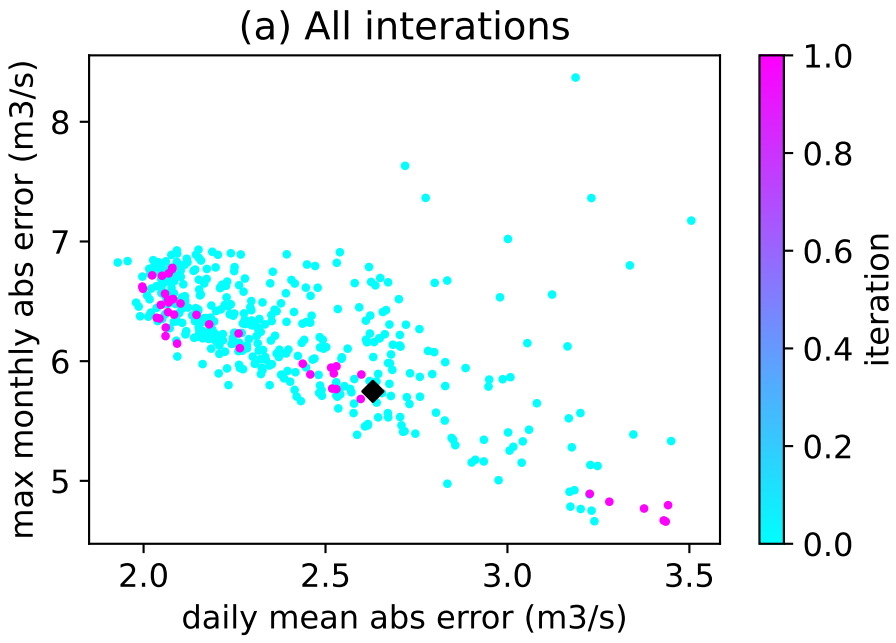
basinid: 457
hru_id: 9081600
lat_cen: 39.10714
lon_cen: -107.18846
AREA: 436.88 km2
elev_mean: 3097.38 m

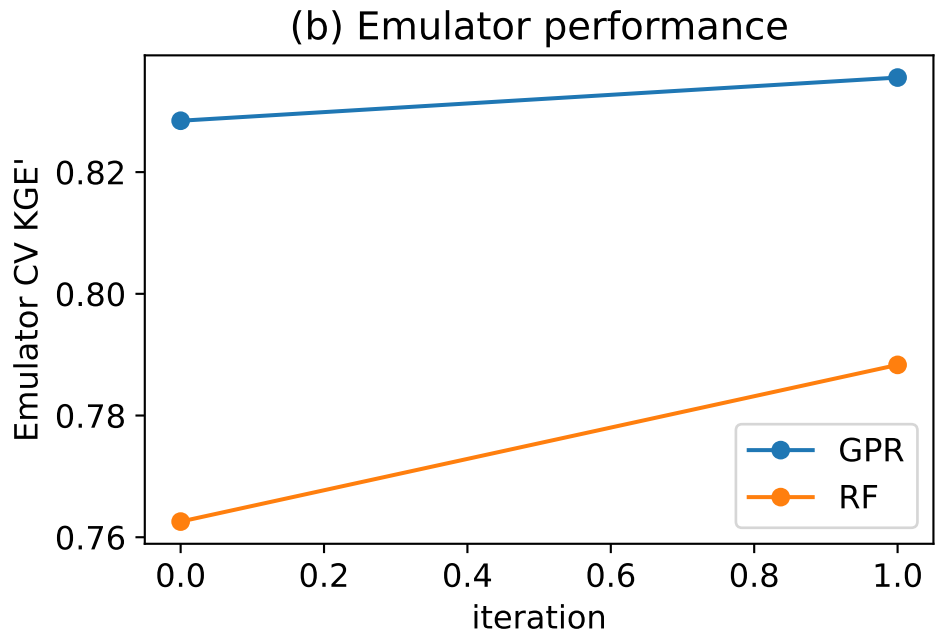


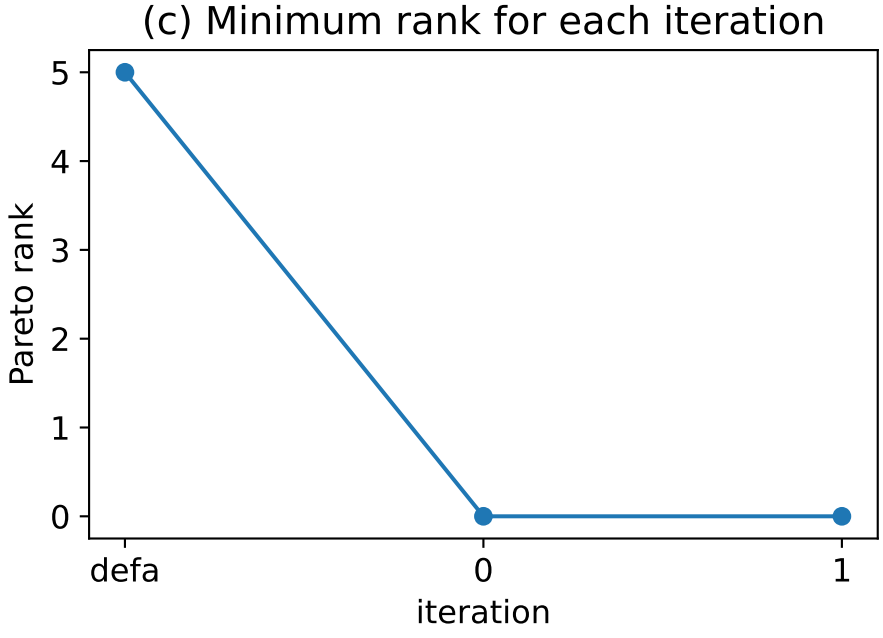




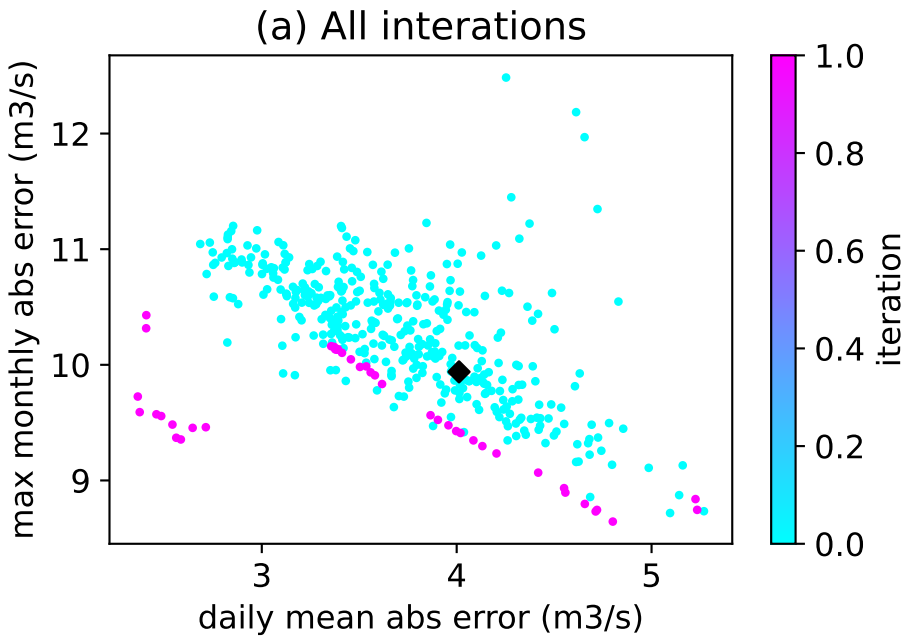
basinid: 458
hru_id: 9107000
lat_cen: 38.95066
lon_cen: -106.62829
AREA: 331.78 km2
elev_mean: 3328.95 m

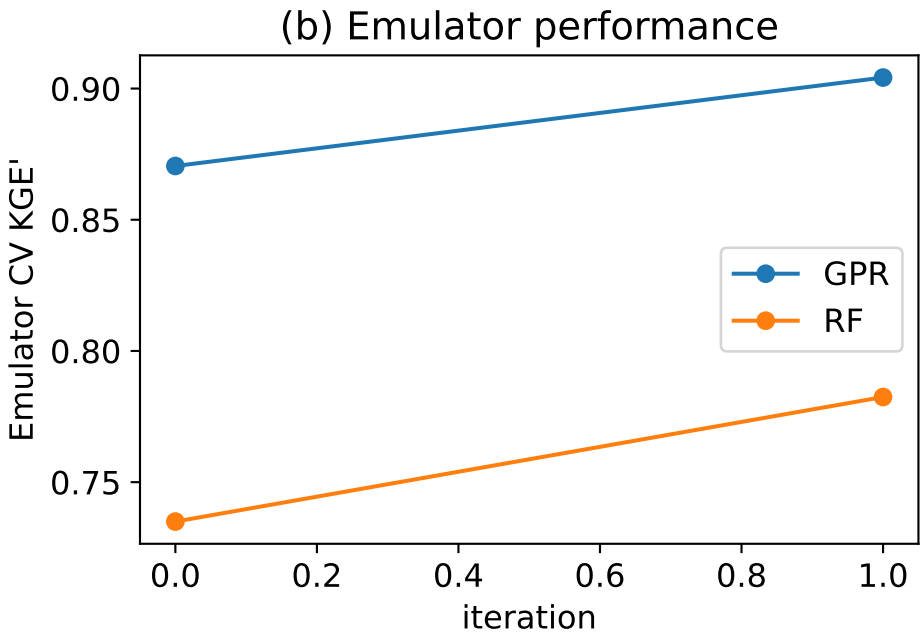


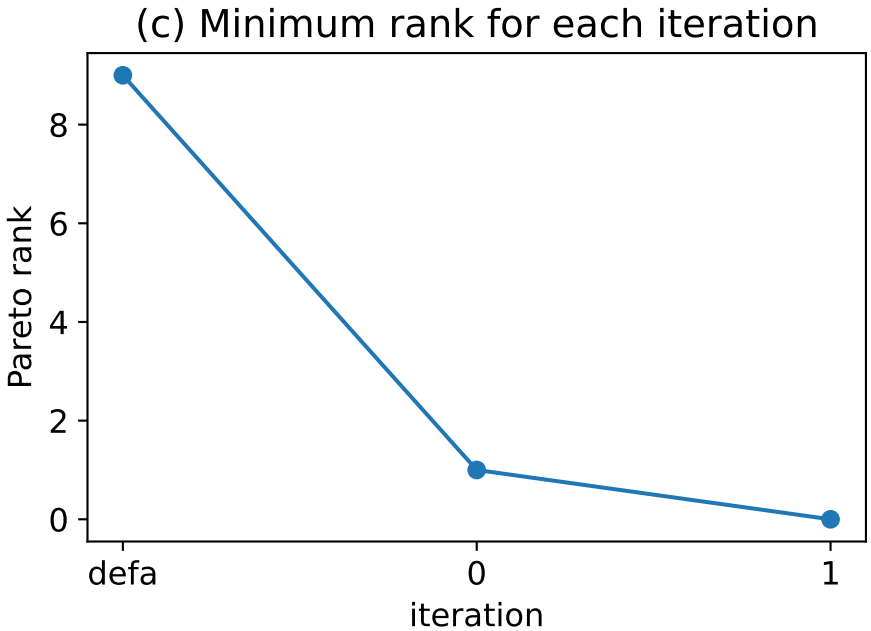




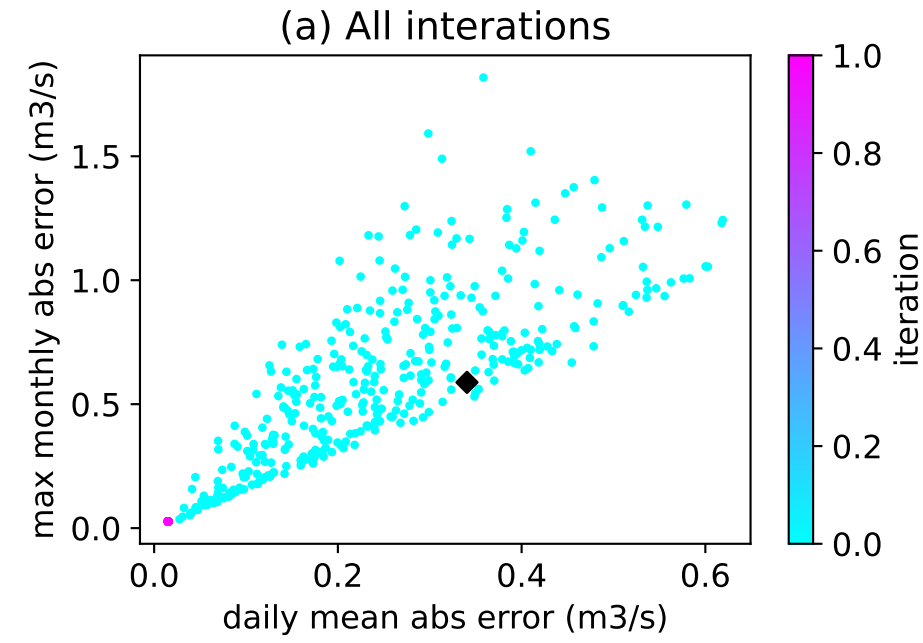
basinid: 459
hru_id: 9210500
lat_cen: 42.18357
lon_cen: -110.54558
AREA: 398.50 km2
elev_mean: 2482.11 m

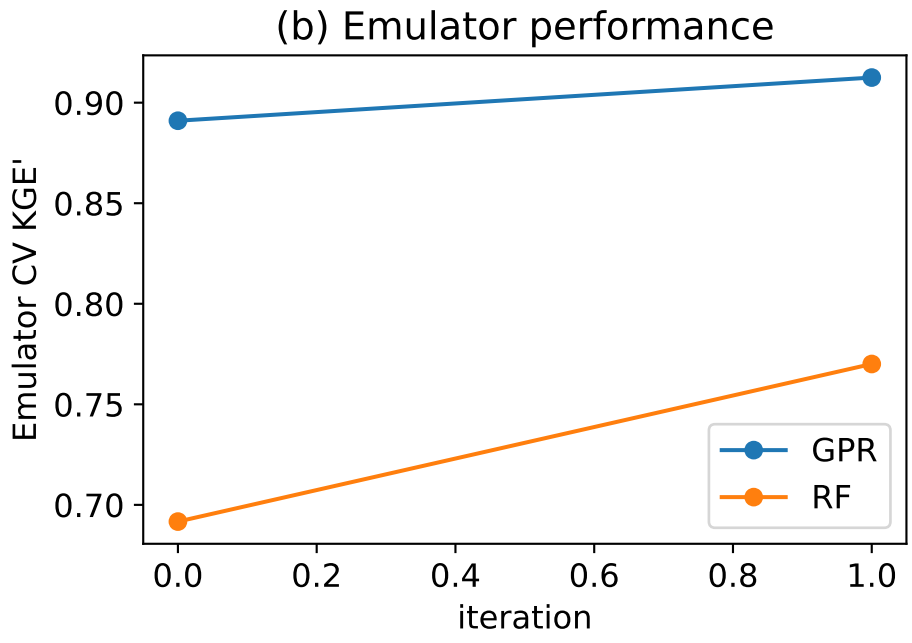


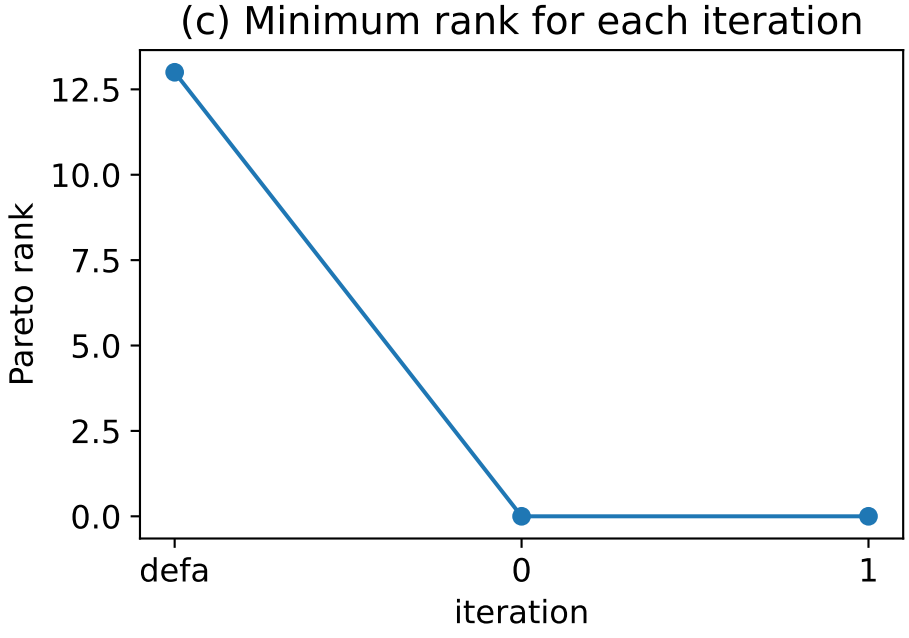




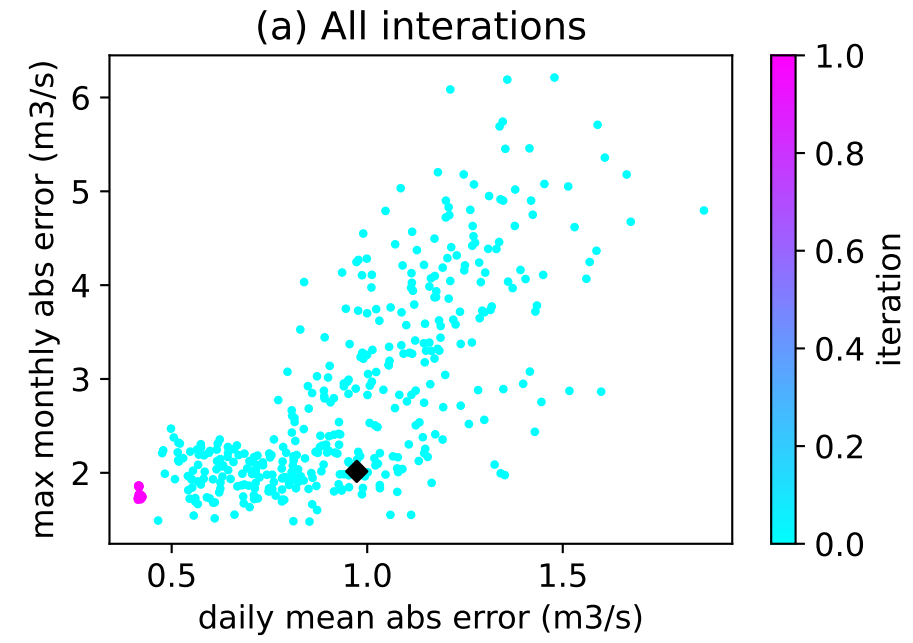
basinid: 460
hru_id: 9223000
lat_cen: 42.23443
lon_cen: -110.72223
AREA: 333.86 km2
elev_mean: 2575.60 m

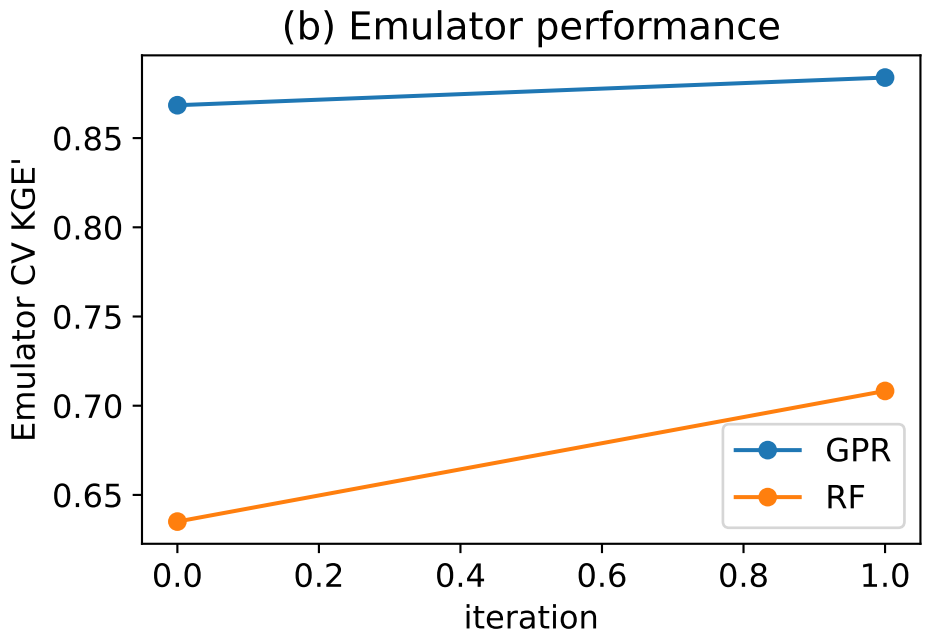


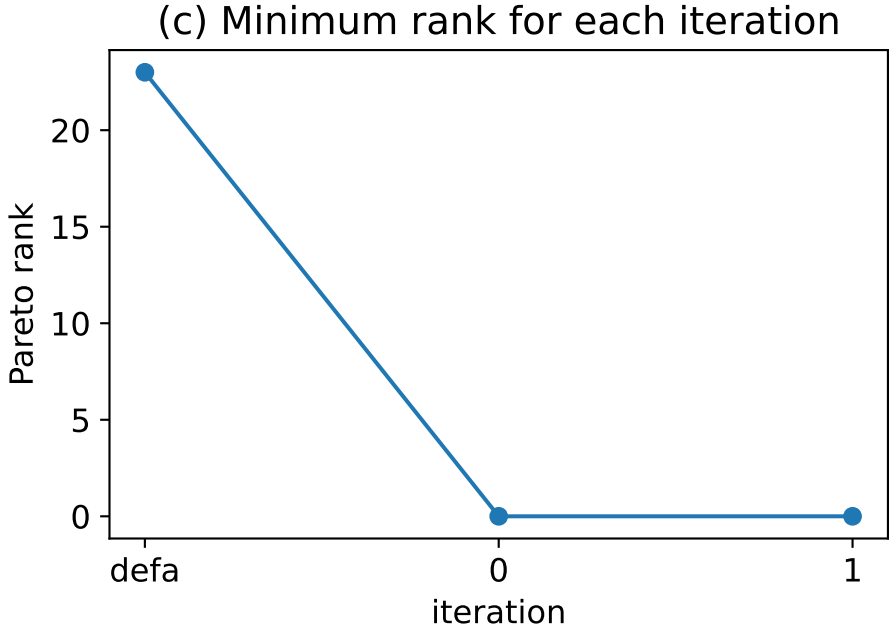




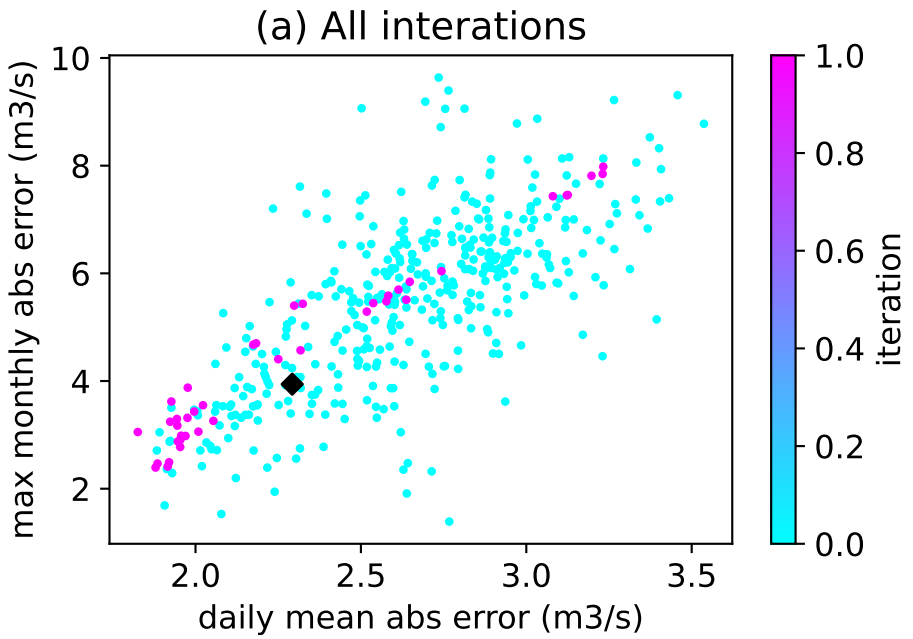
basinid: 461
hru_id: 9306242
lat_cen: 39.89544
lon_cen: -108.54592
AREA: 87.71 km2
elev_mean: 2269.98 m

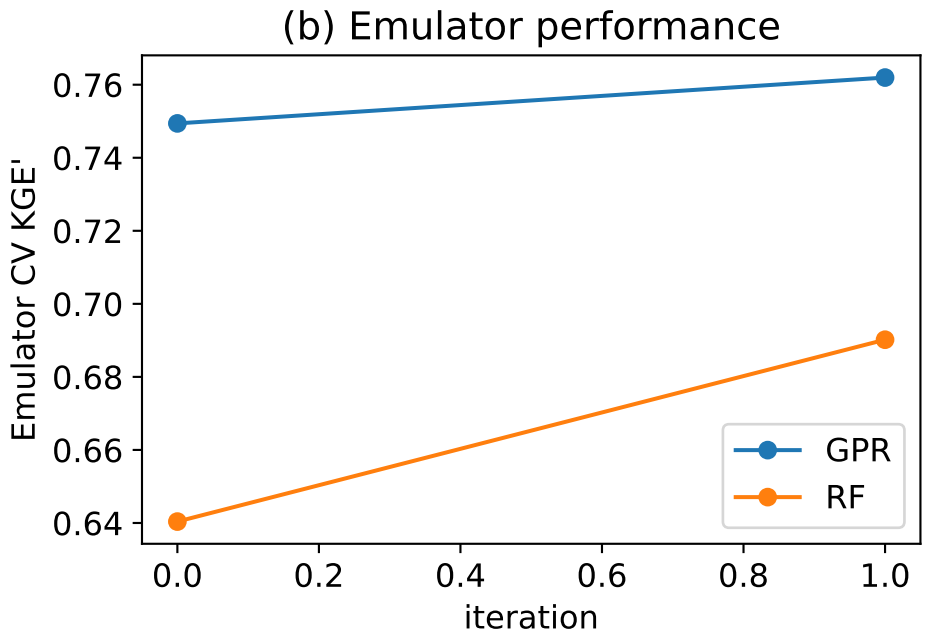


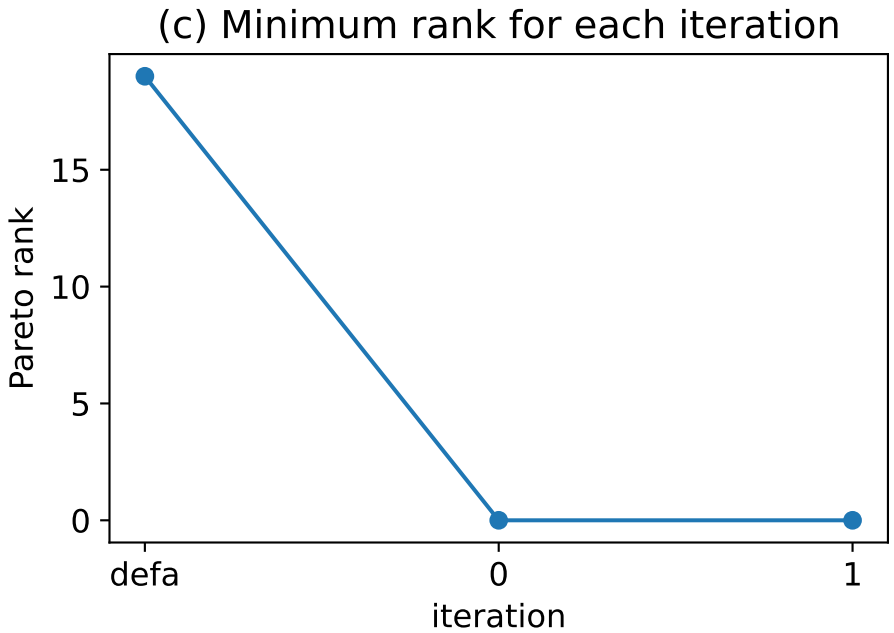




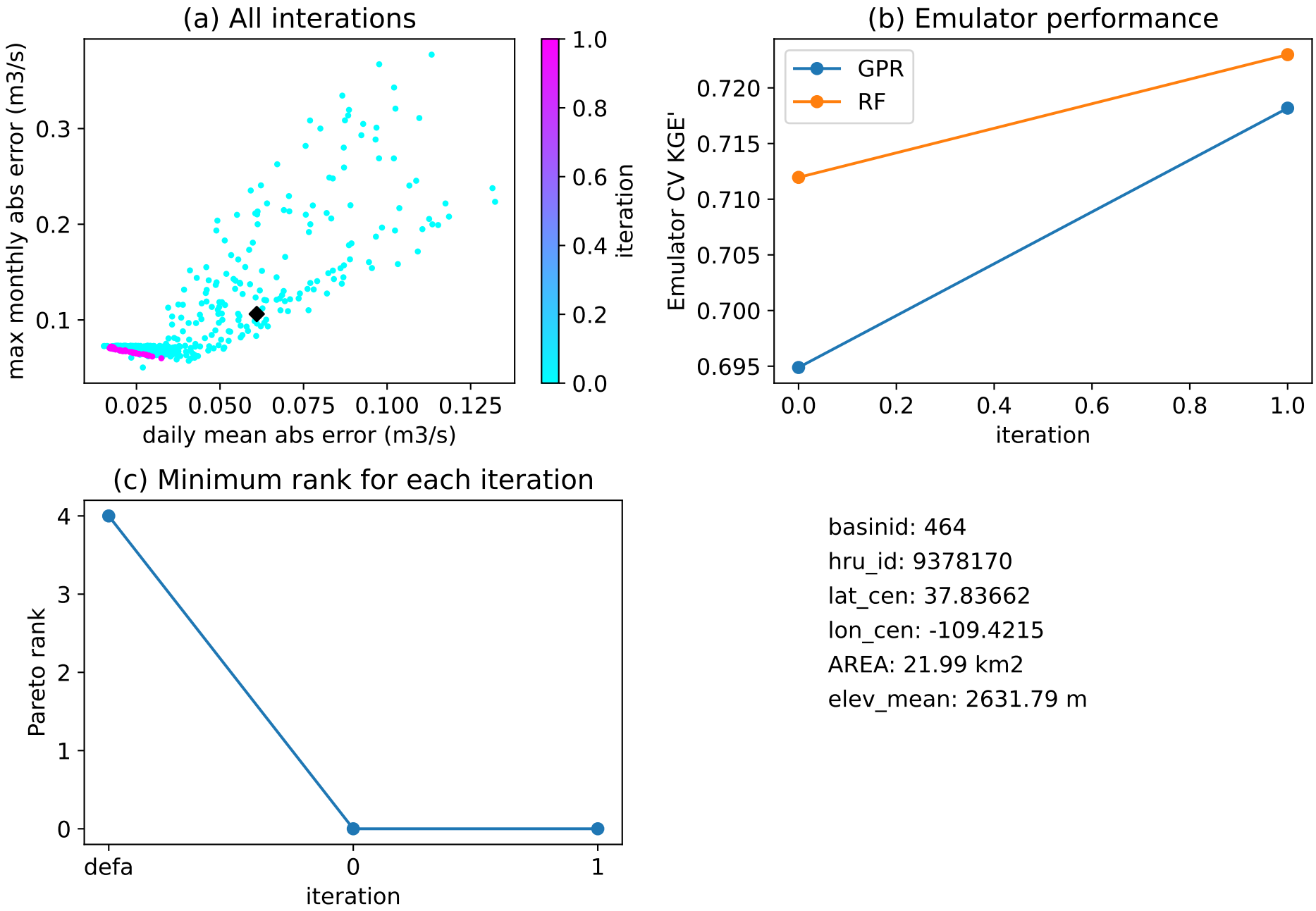
basinid: 462
hru_id: 9312600
lat_cen: 39.94972
lon_cen: -111.04445
AREA: 198.56 km2
elev_mean: 2497.84 m

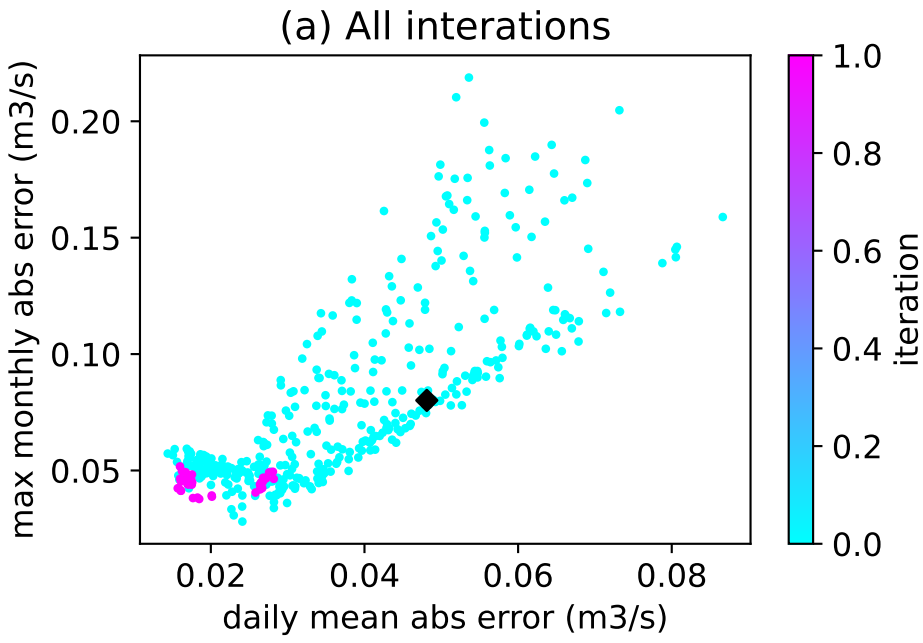


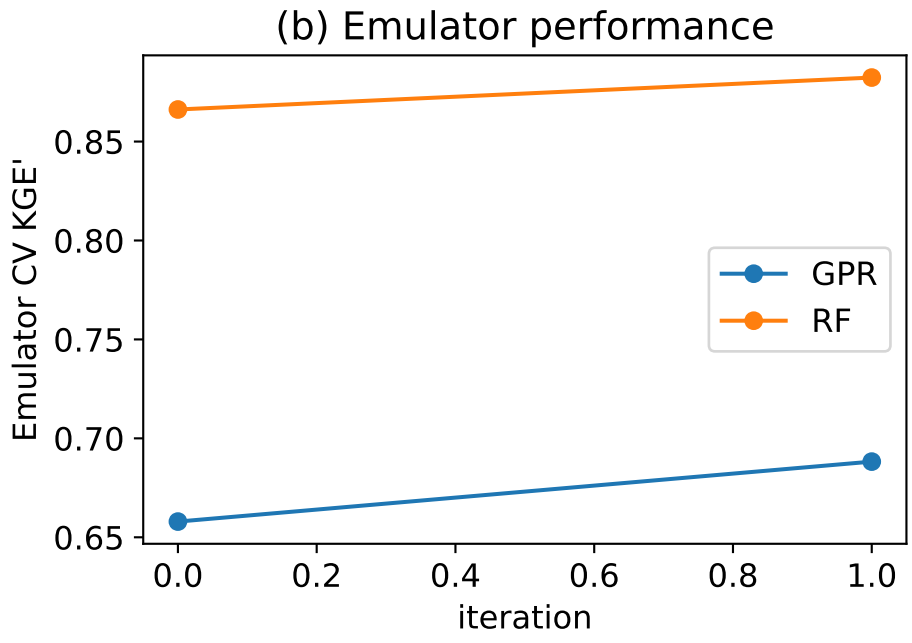


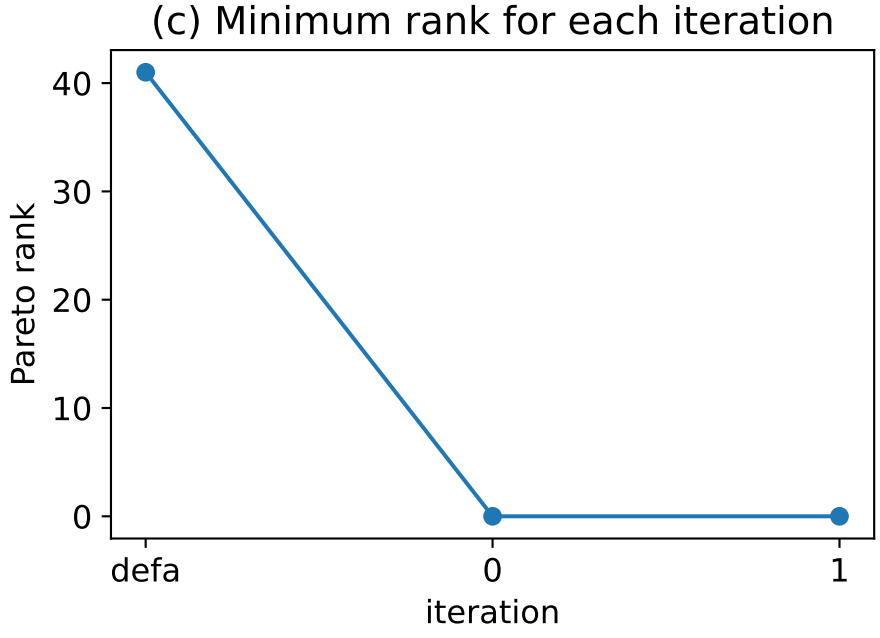


basinid: 463
hru_id: 9352900
lat_cen: 37.59993
lon_cen: -107.53186
AREA: 187.74 km2
elev_mean: 3455.24 m

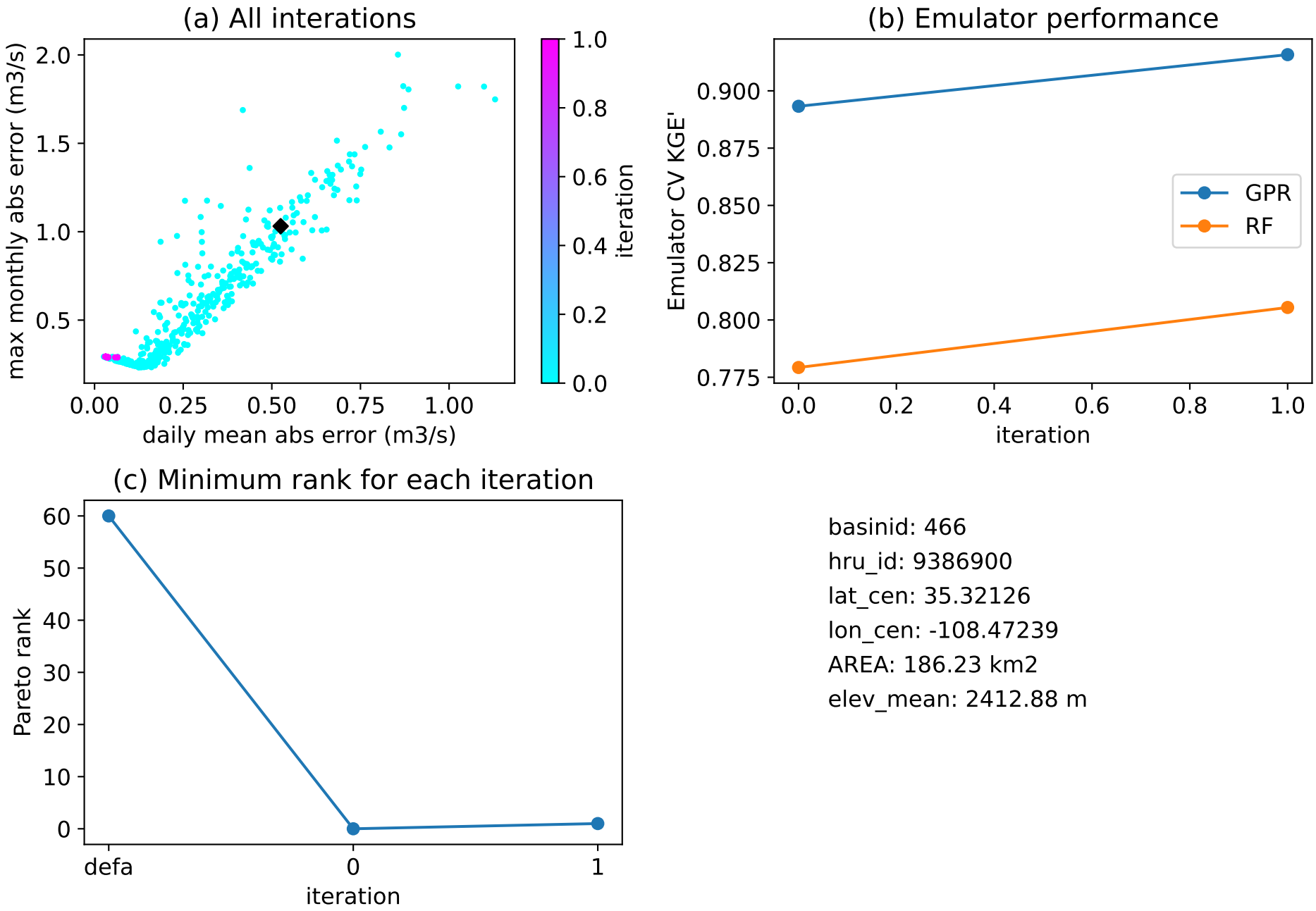

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 464
hru_id: 9378170
lat_cen: 37.83662
lon_cen: -109.4215
AREA: 21.99 km2
elev_mean: 2631.79 m

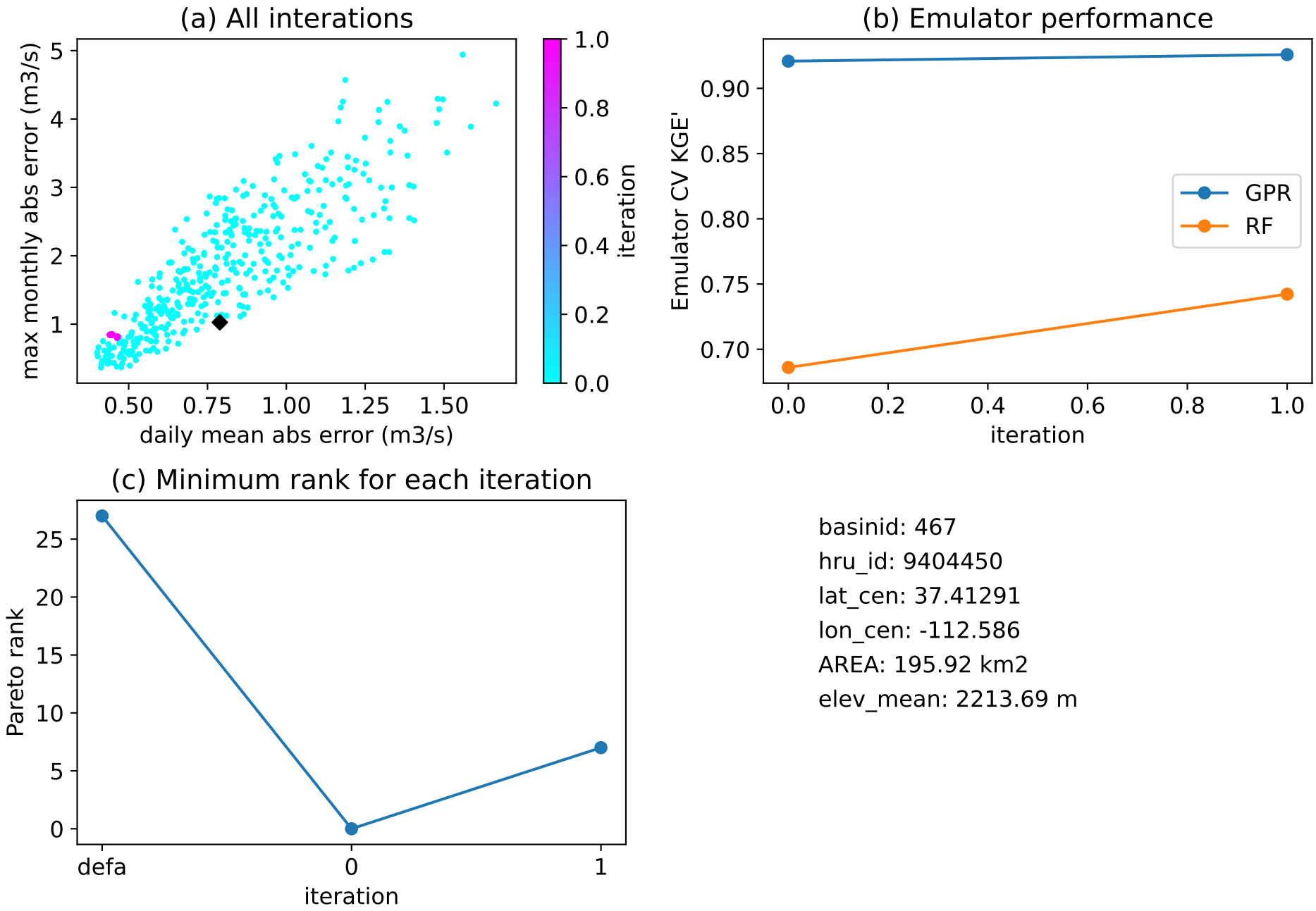


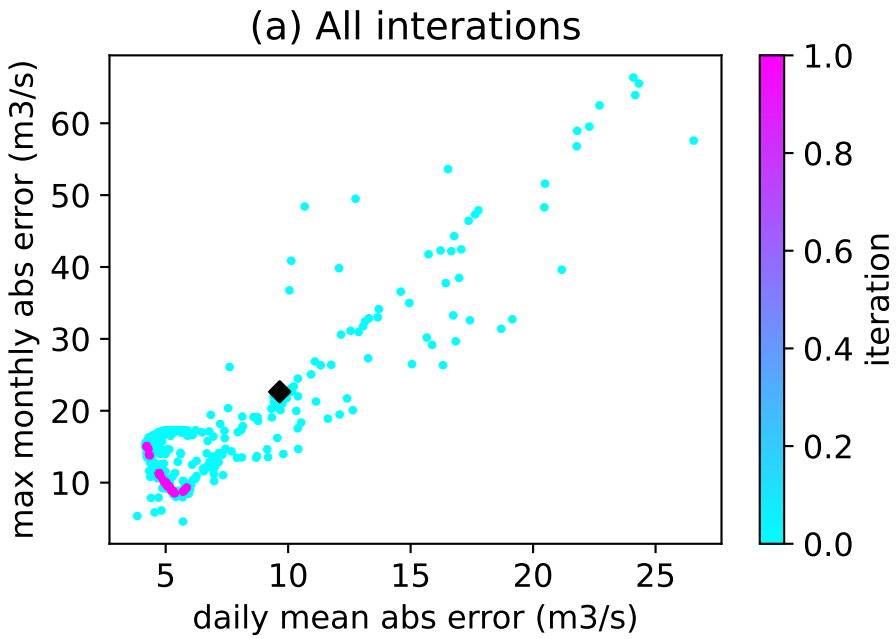


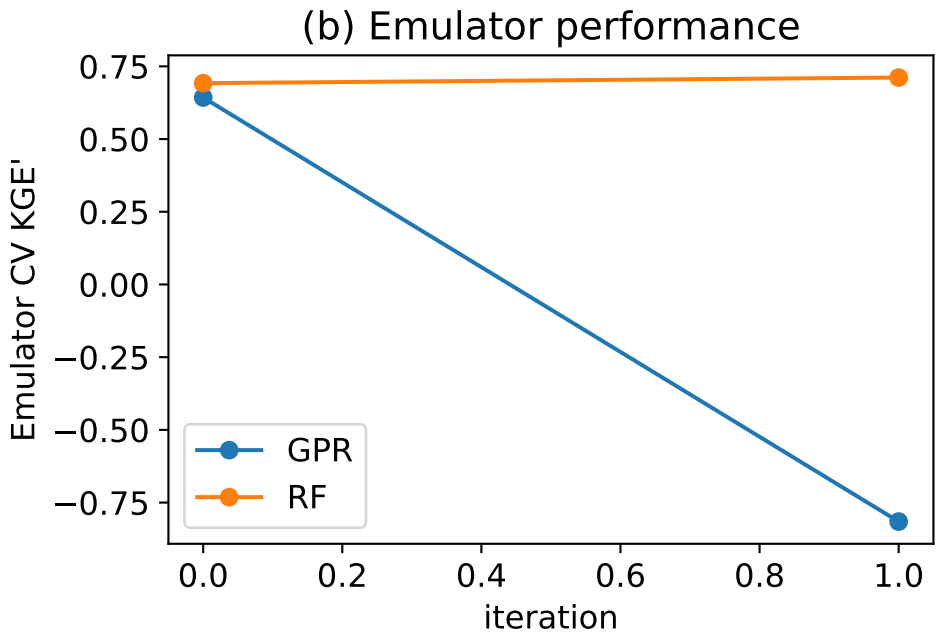


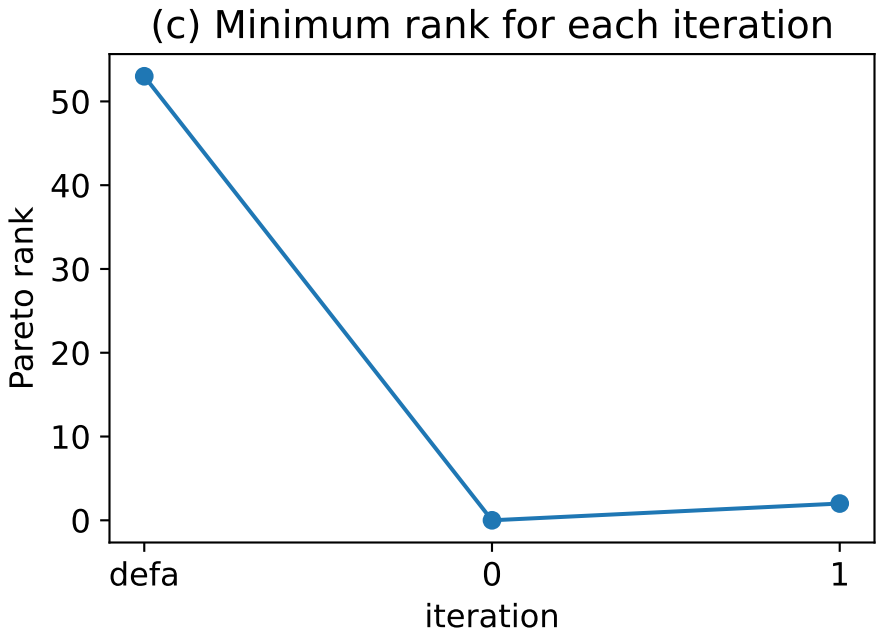
basinid: 465
hru_id: 9378630
lat_cen: 37.78335
lon_cen: -109.4679
AREA: 11.60 km2
elev_mean: 2558.92 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 466
hru_id: 9386900
lat_cen: 35.32126
lon_cen: -108.47239
AREA: 186.23 km2
elev_mean: 2412.88 m

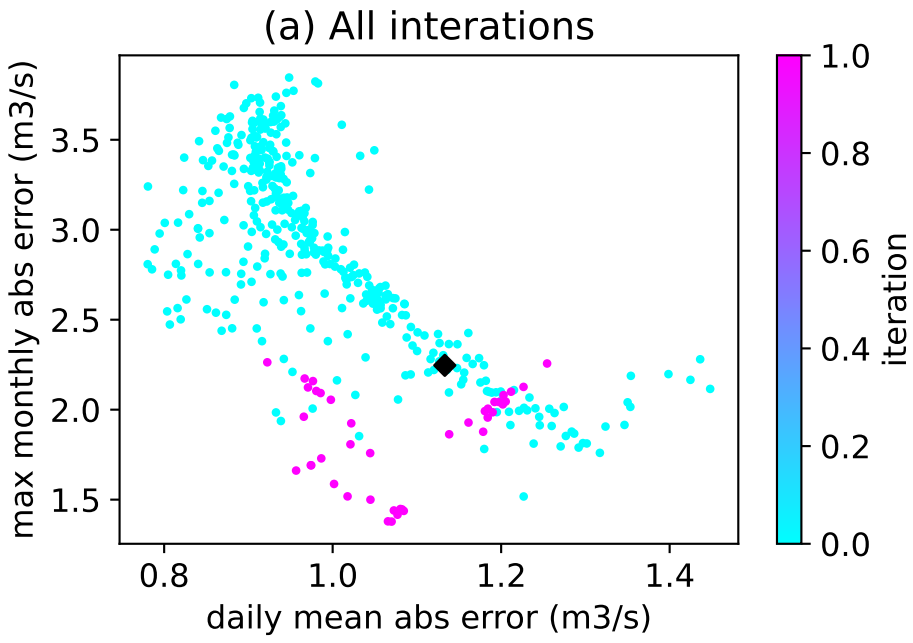

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 467
hru_id: 9404450
lat_cen: 37.41291
lon_cen: -112.586
AREA: 195.92 km2
elev_mean: 2213.69 m

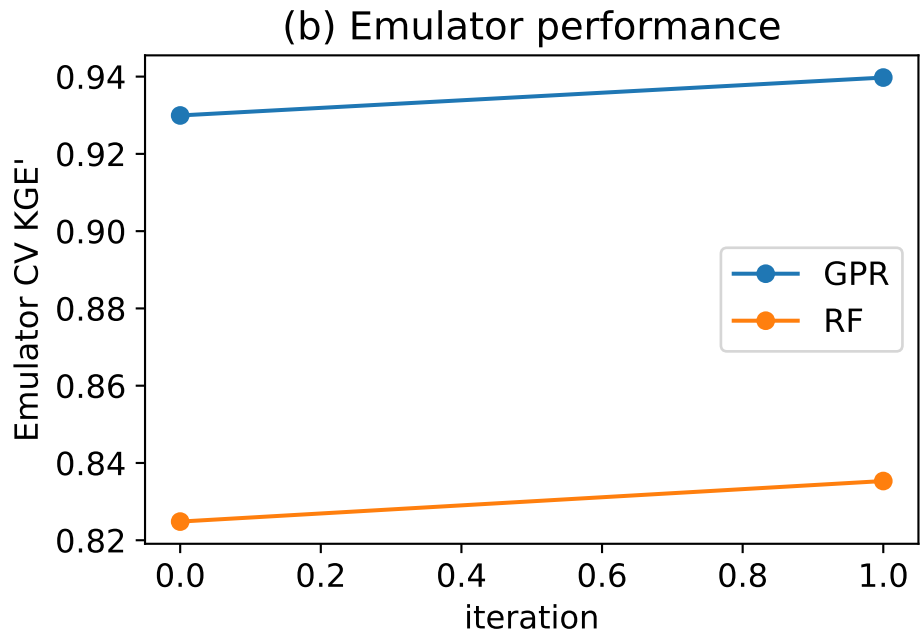


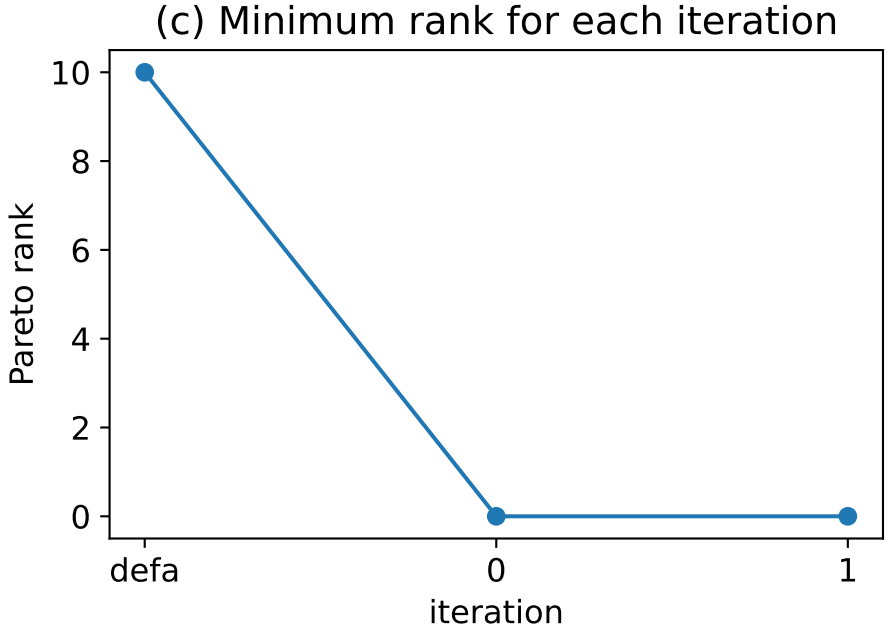




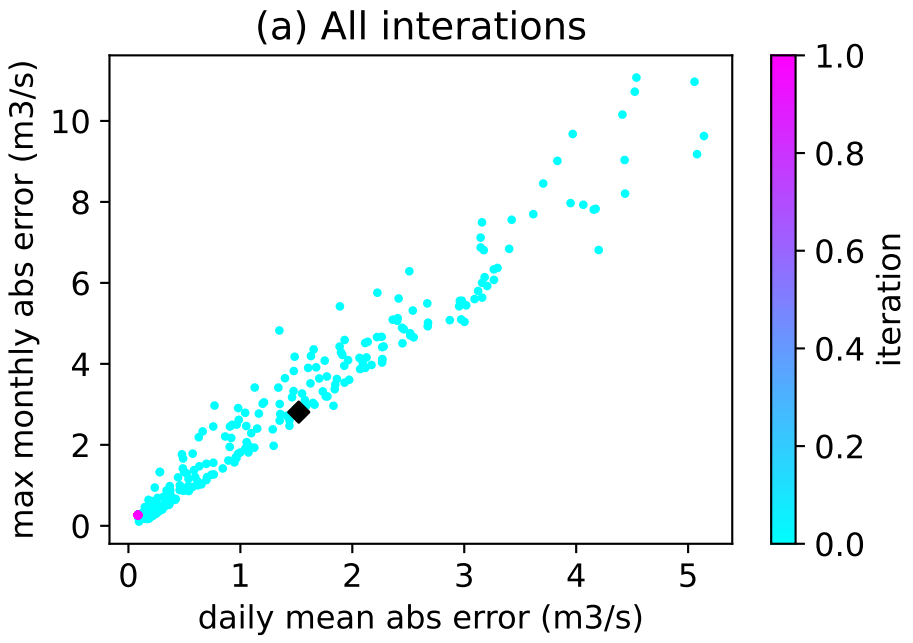
basinid: 468
hru_id: 9430500
lat_cen: 33.34026
lon_cen: -108.18896
AREA: 4809.58 km2
elev_mean: 2268.66 m

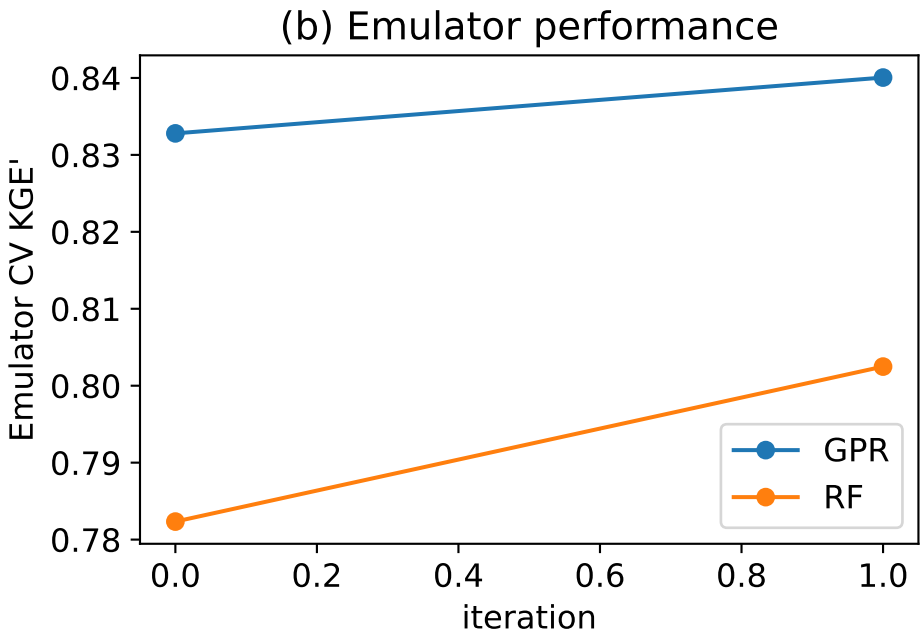


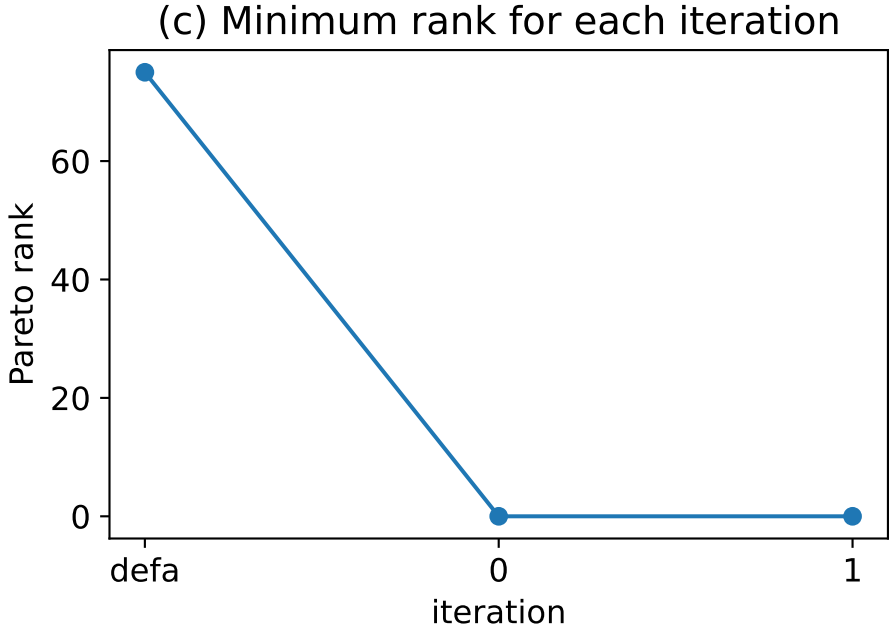




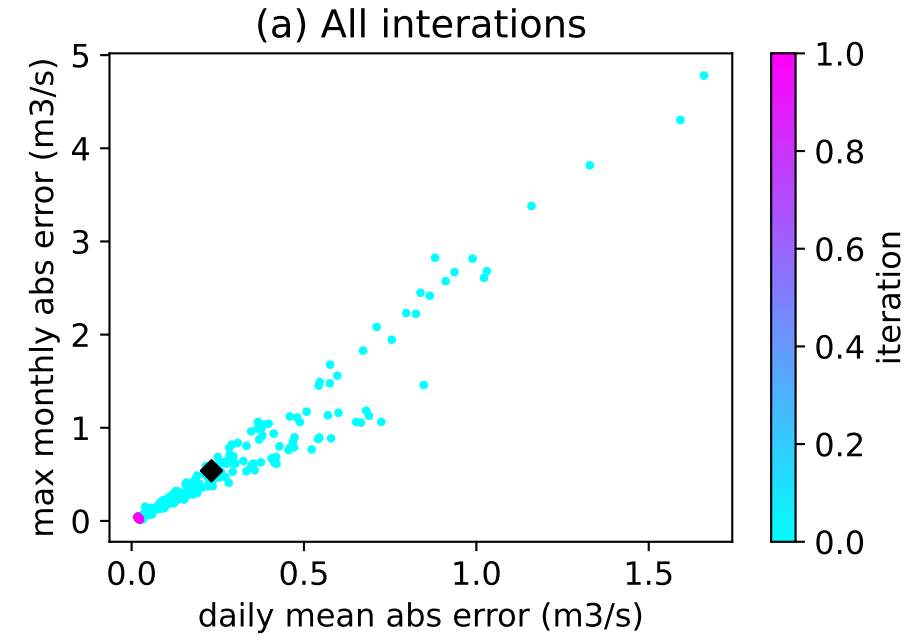
basinid: 469
hru_id: 9430600
lat_cen: 33.2252
lon_cen: -108.59094
AREA: 190.68 km2
elev_mean: 2360.92 m

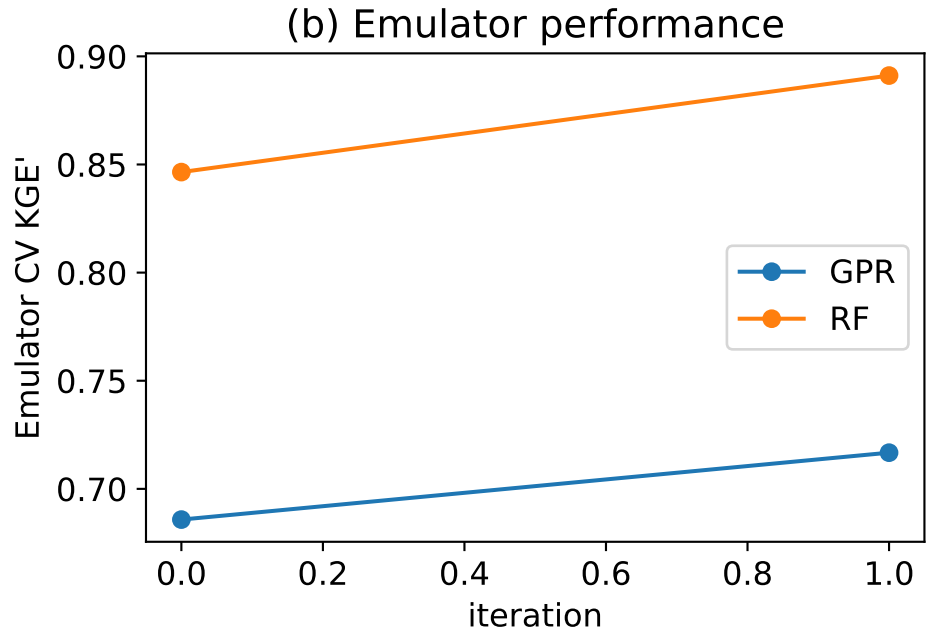


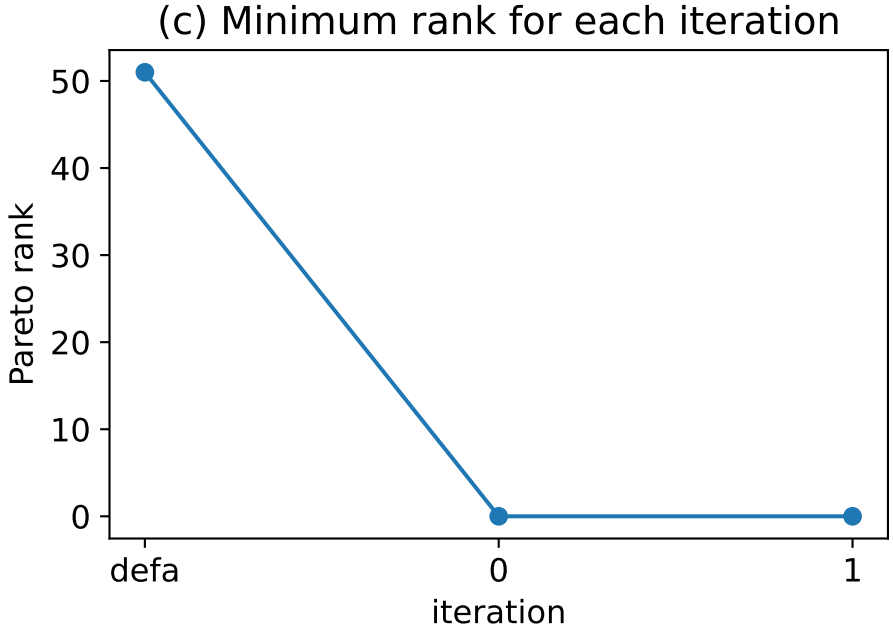




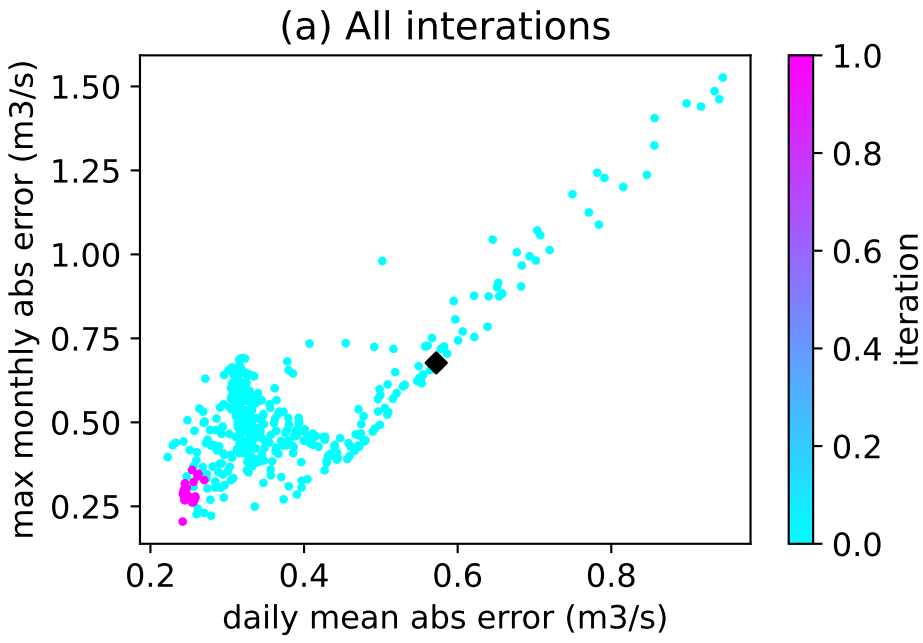
basinid: 470
hru_id: 9447800
lat_cen: 33.14117
lon_cen: -109.69413
AREA: 777.15 km2
elev_mean: 1594.47 m

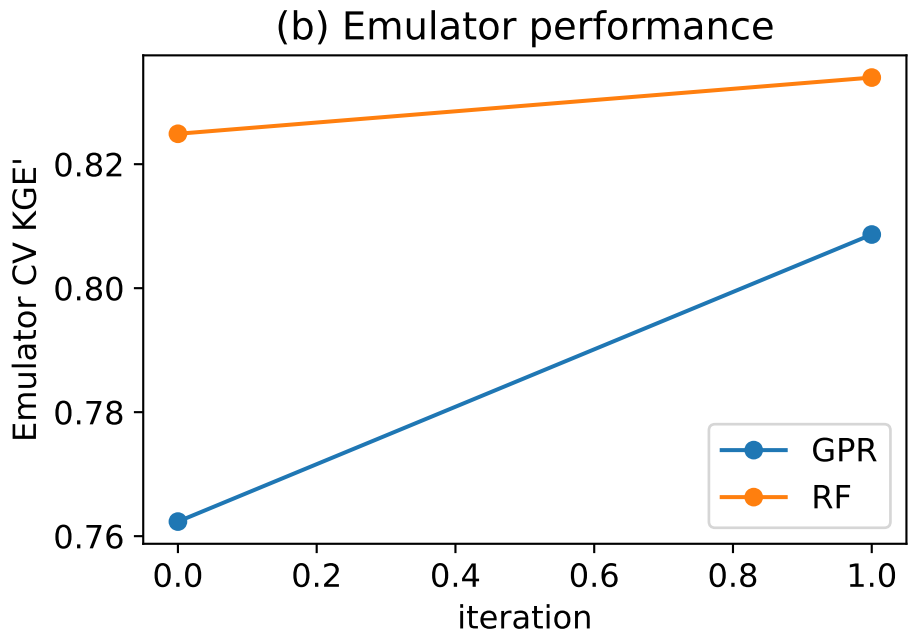


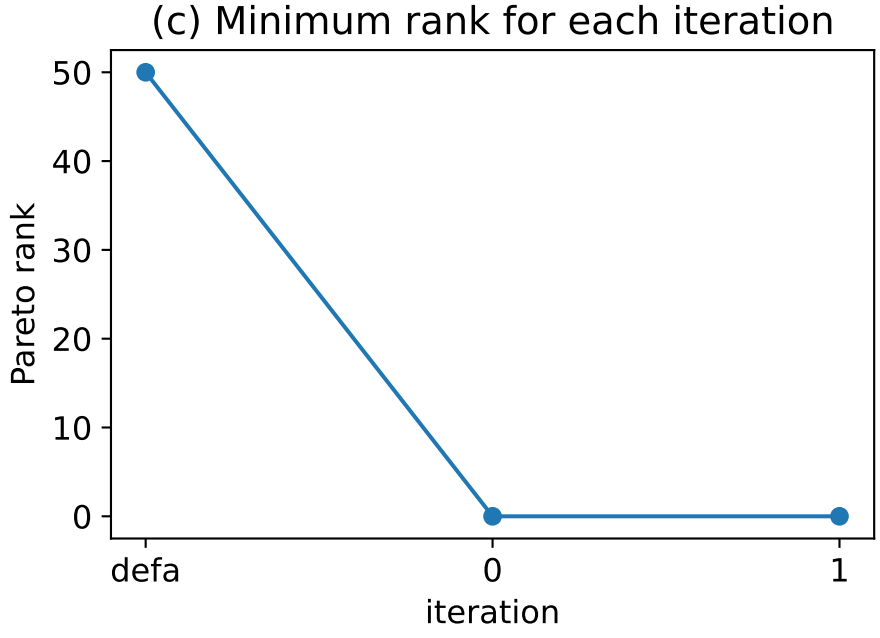




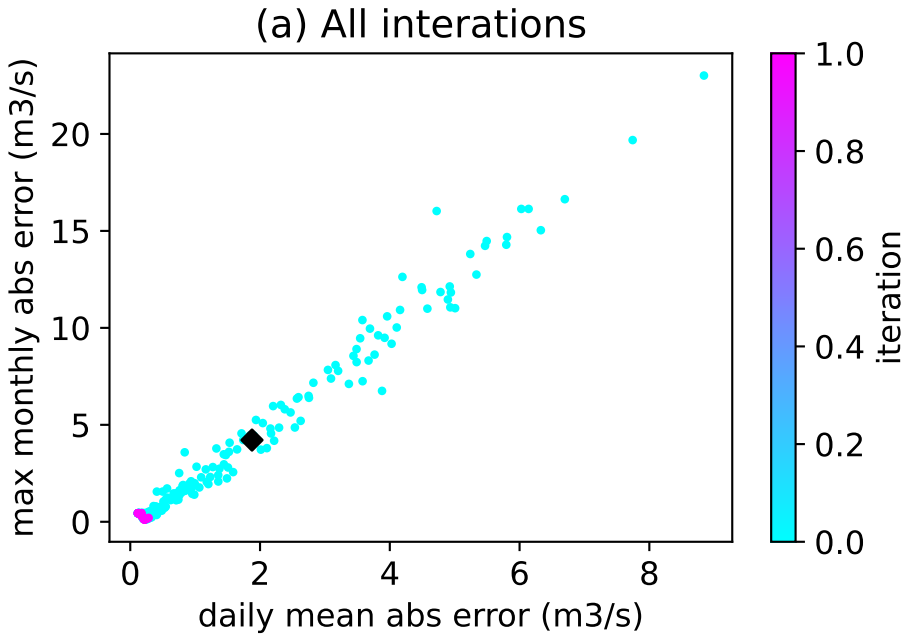
basinid: 471
hru_id: 9480000
lat_cen: 31.42516
lon_cen: -110.58471
AREA: 269.19 km2
elev_mean: 1546.03 m

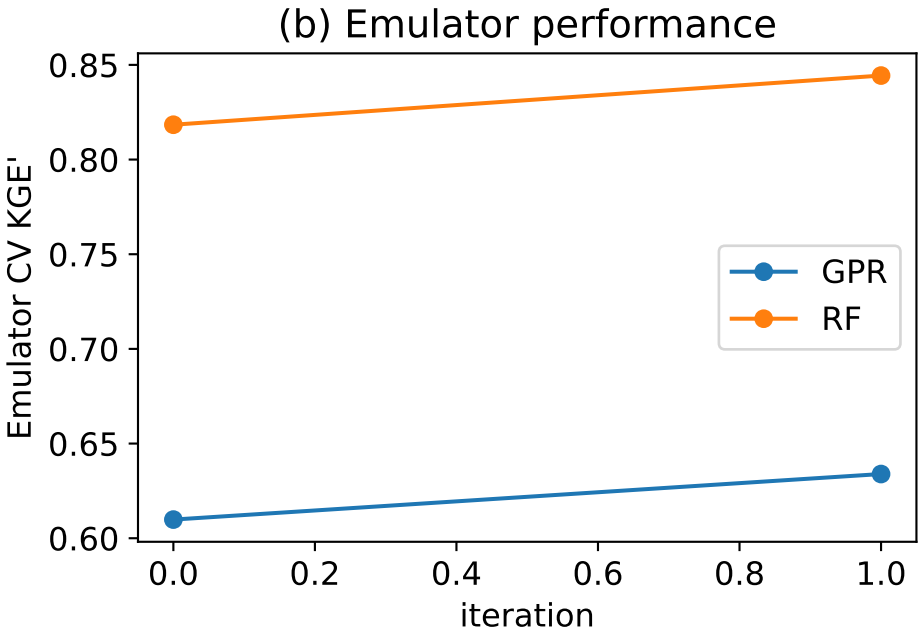


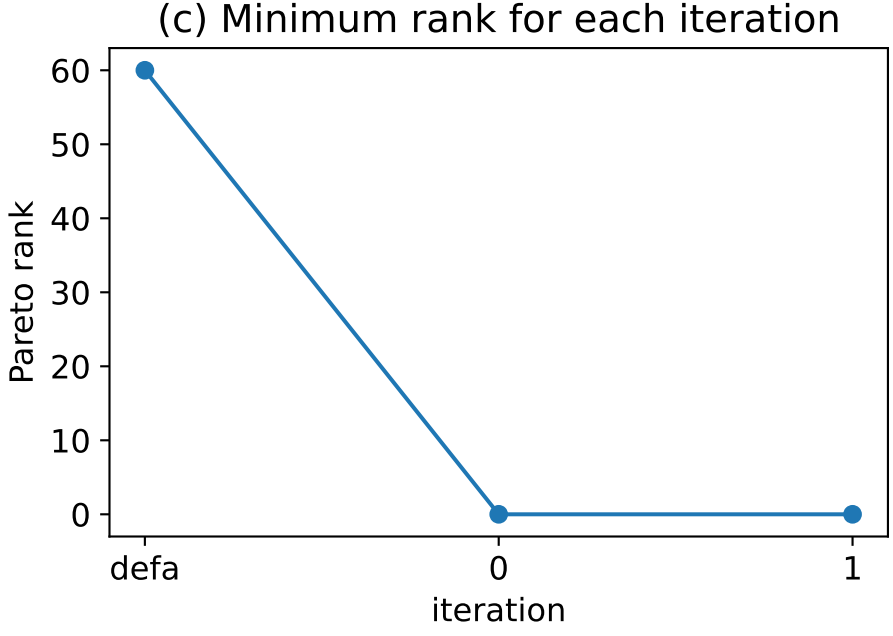




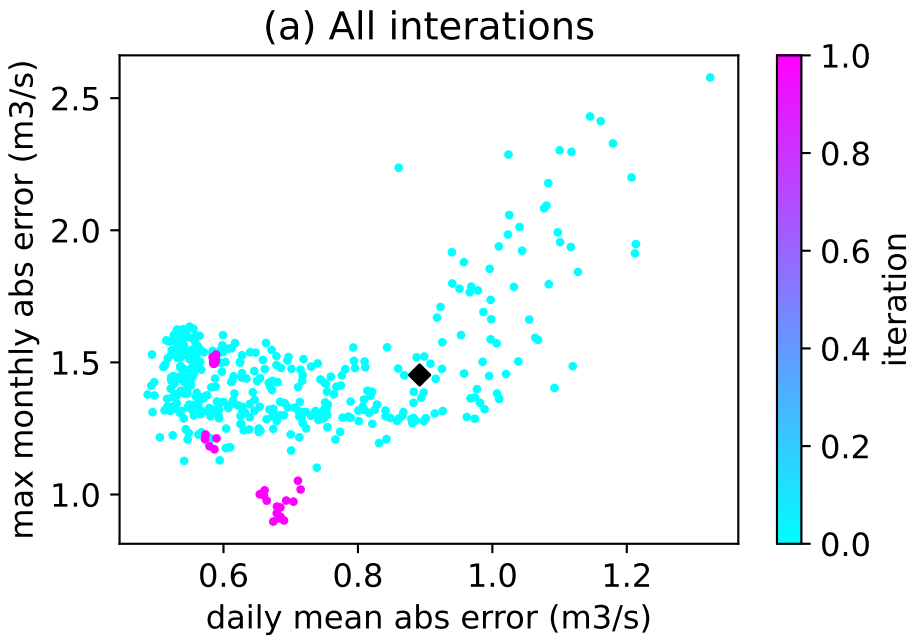
basinid: 472
hru_id: 9484000
lat_cen: 32.38747
lon_cen: -110.77781
AREA: 98.65 km2
elev_mean: 1807.94 m

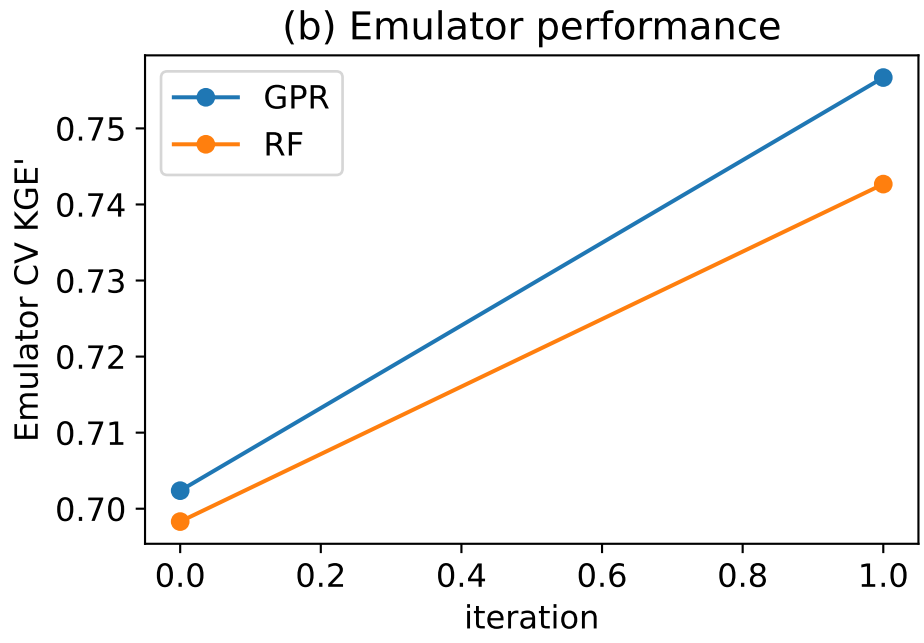


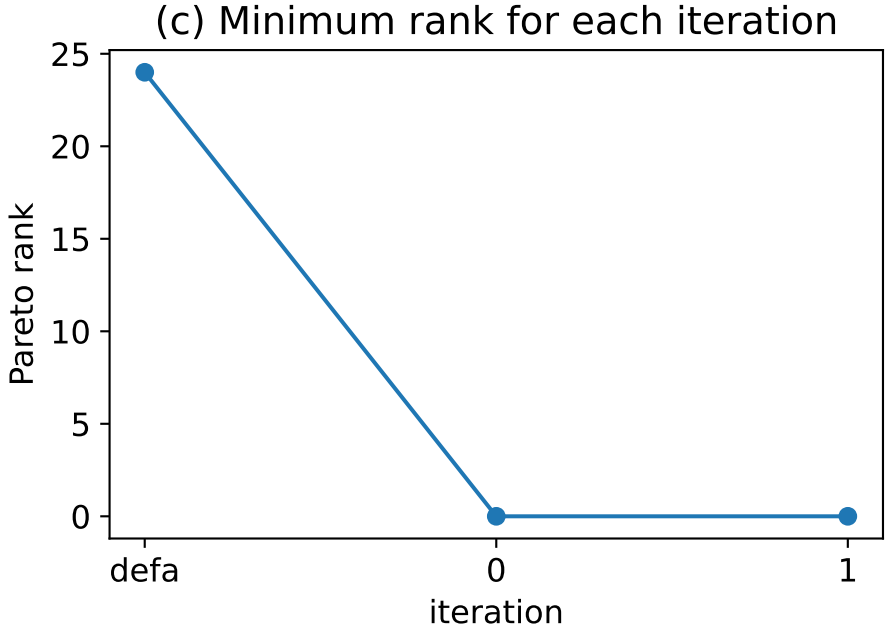




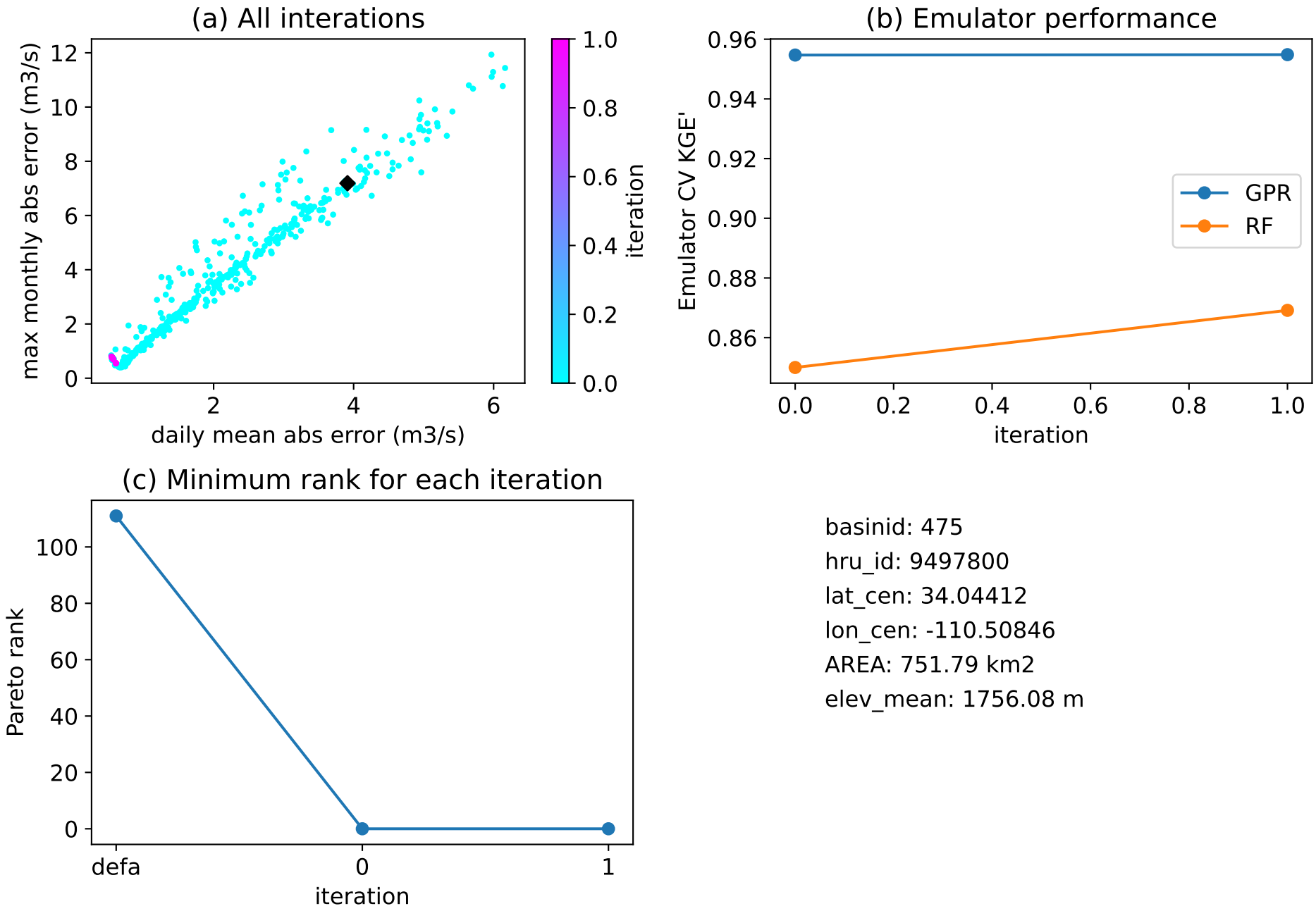
basinid: 473
hru_id: 9484600
lat_cen: 31.86758
lon_cen: -110.6011
AREA: 1240.15 km2
elev_mean: 1401.32 m

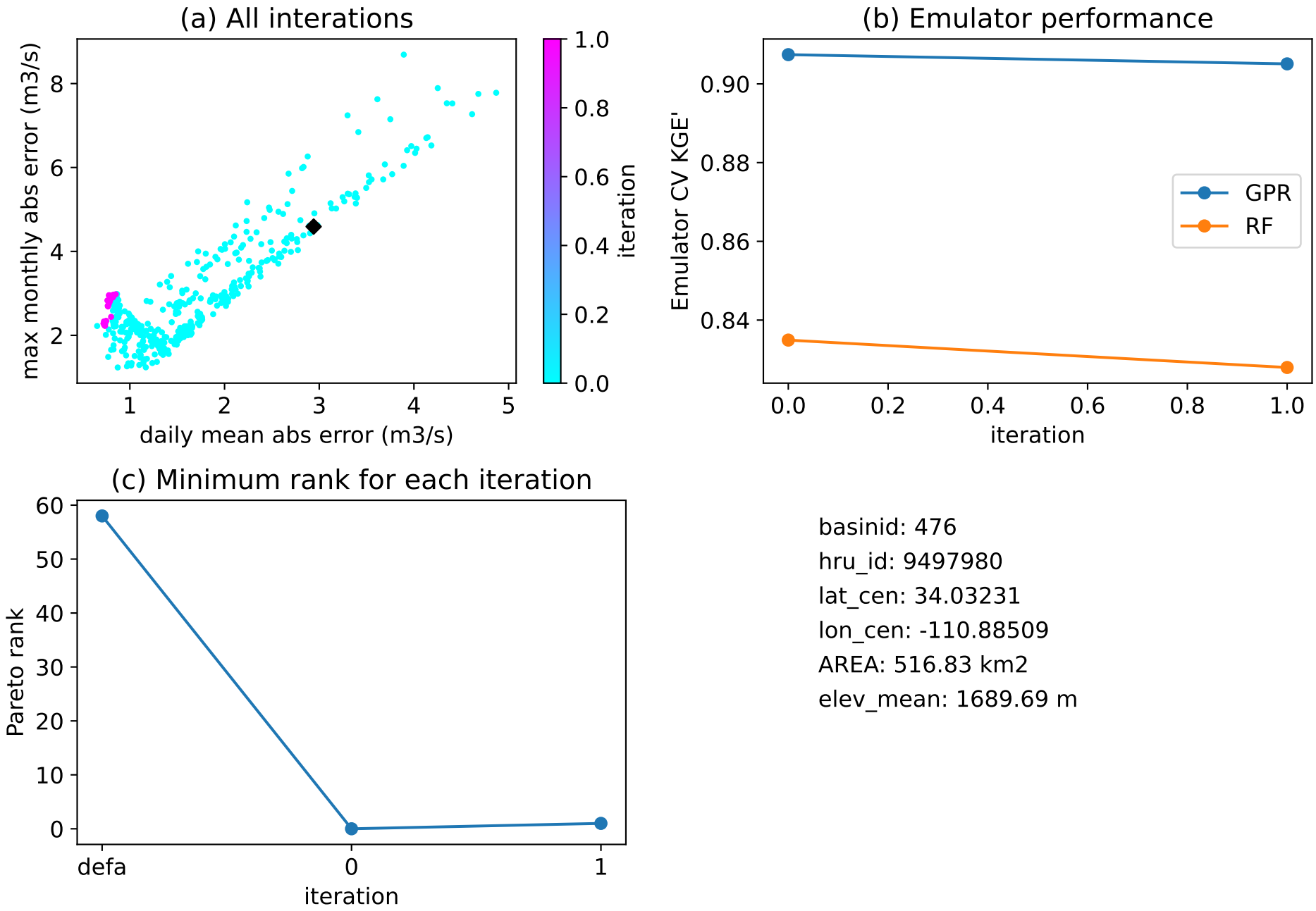


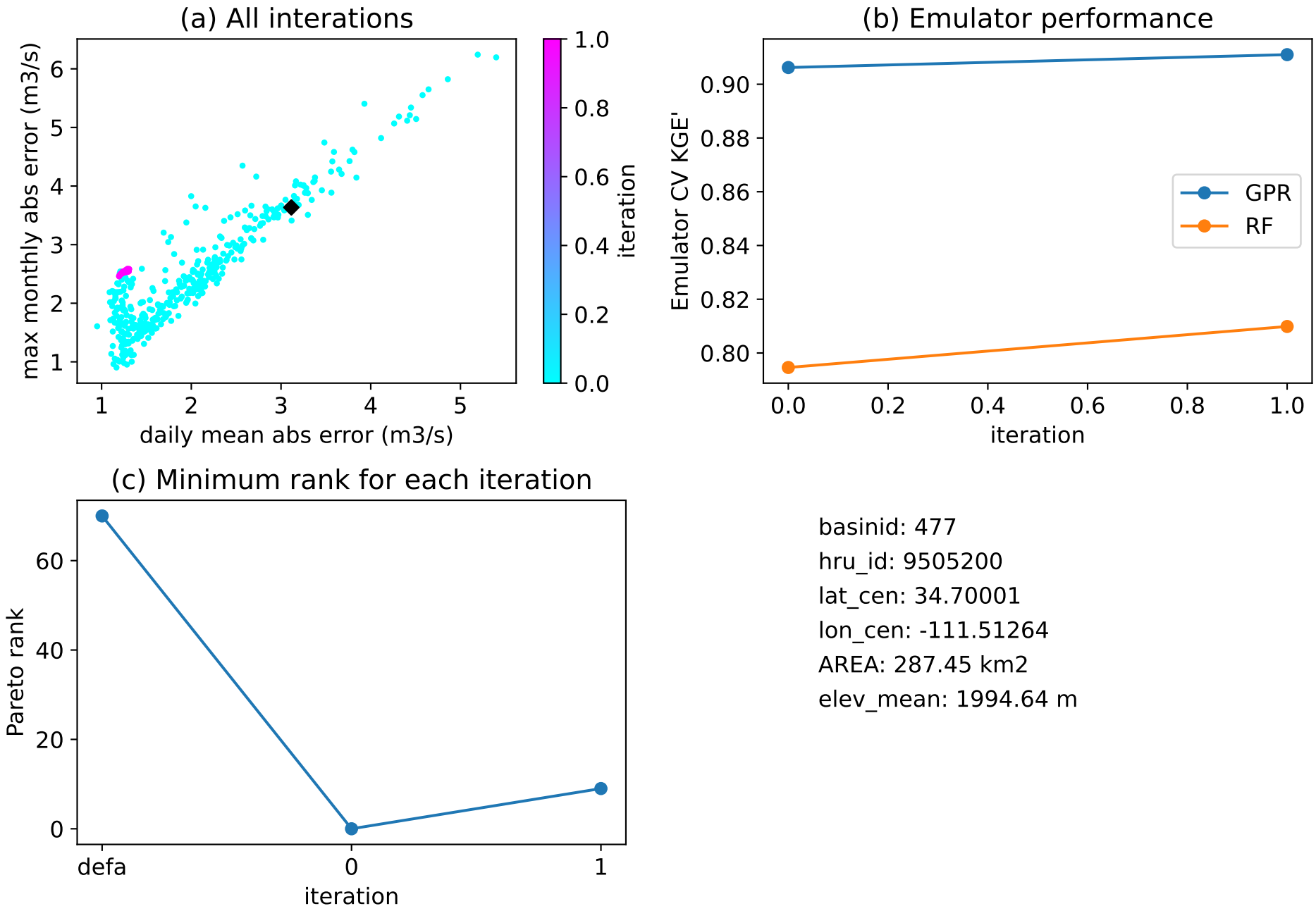


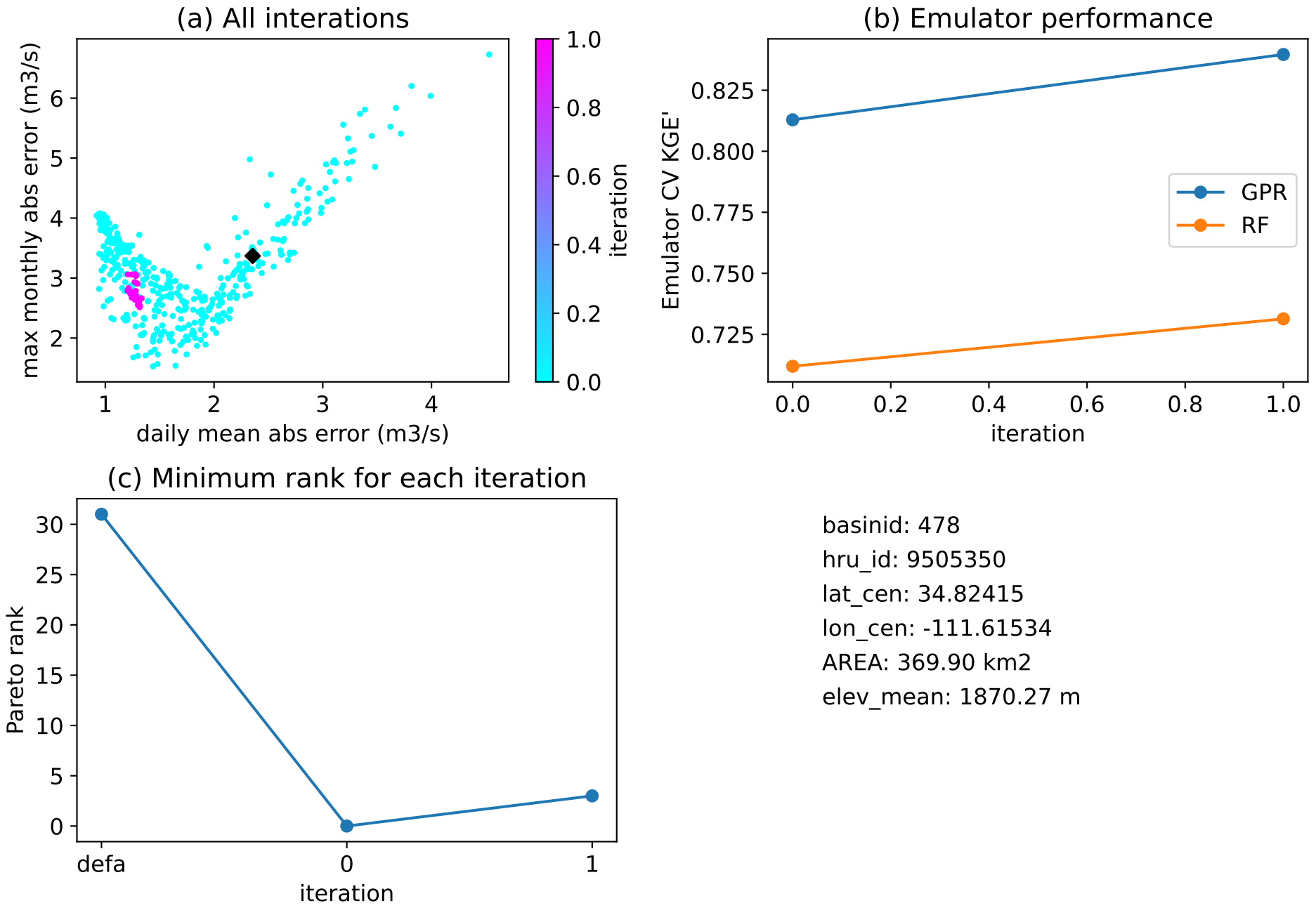


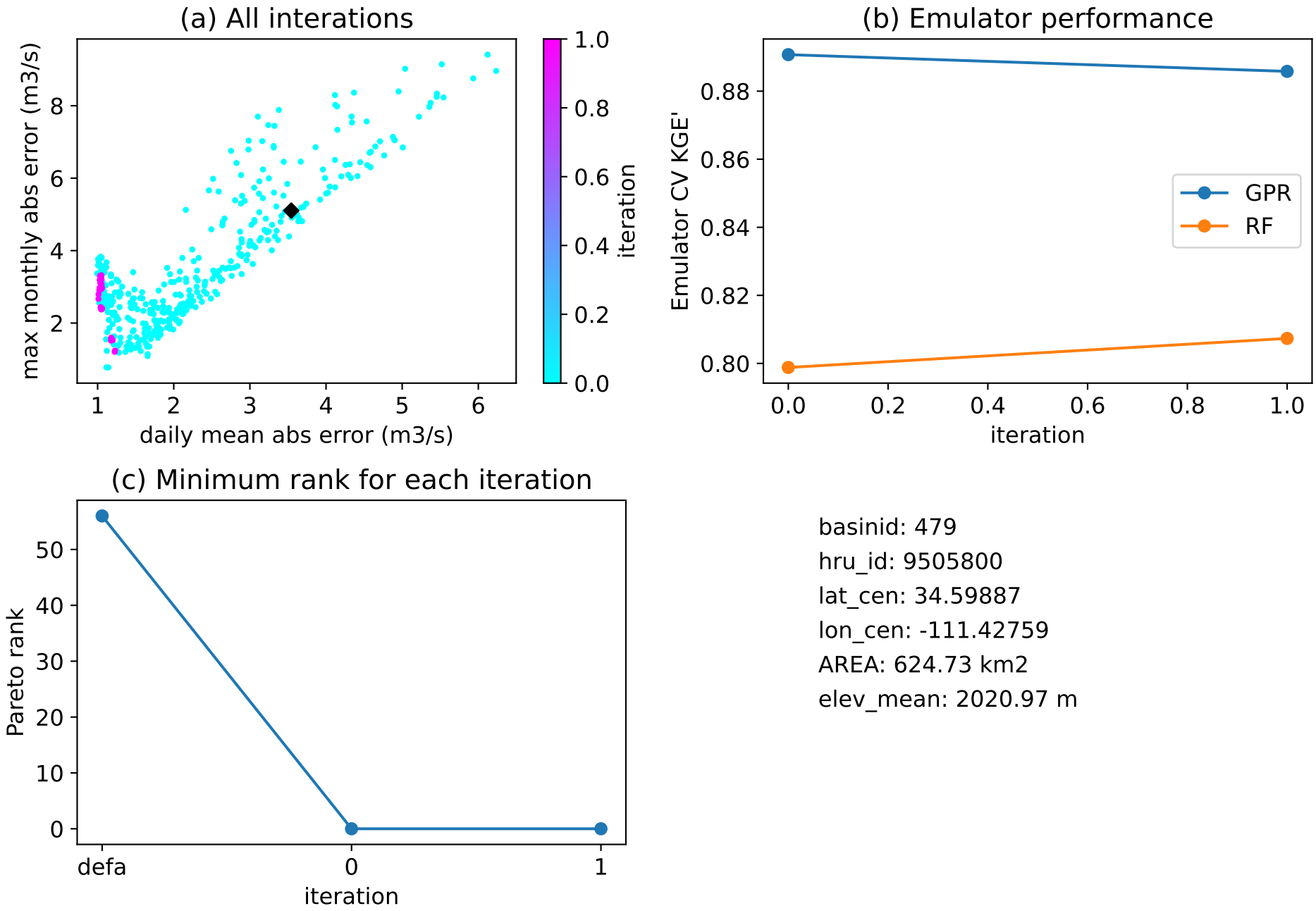
basinid: 474
hru_id: 9492400
lat_cen: 33.86829
lon_cen: -109.70757
AREA: 120.27 km2
elev_mean: 2567.82 m

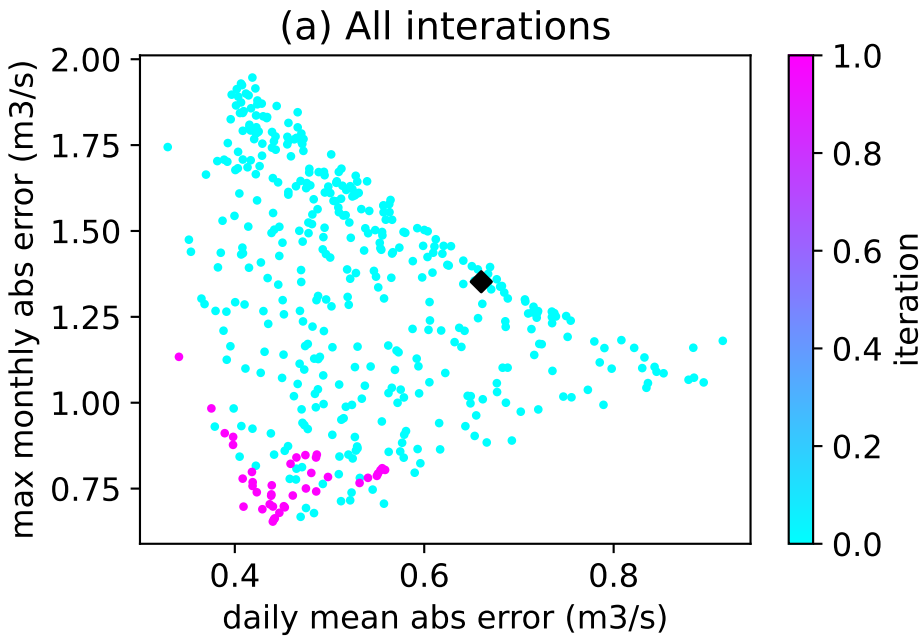

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 475
hru_id: 9497800
lat_cen: 34.04412
lon_cen: -110.50846
AREA: 751.79 km2
elev_mean: 1756.08 m

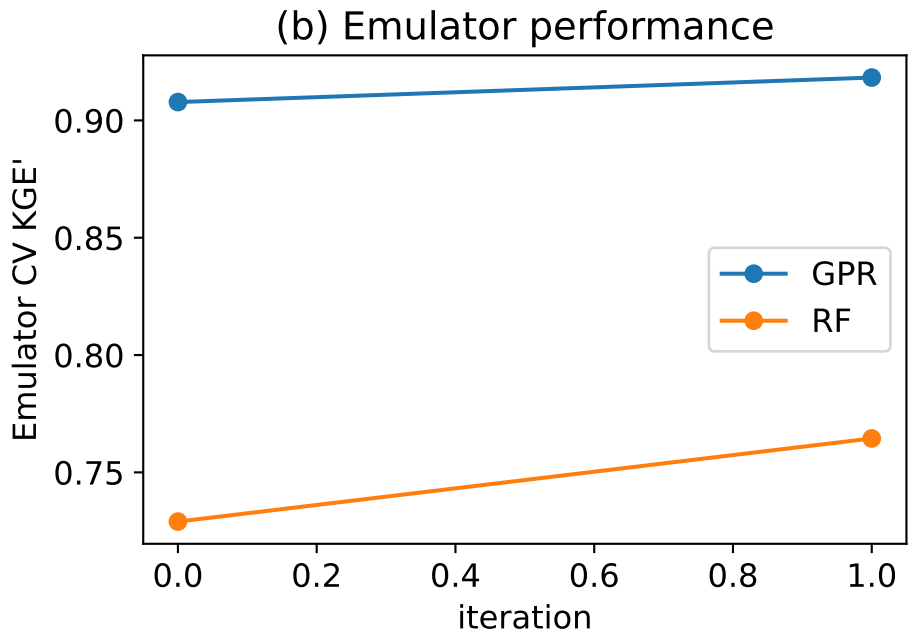

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 476
hru_id: 9497980
lat_cen: 34.03231
lon_cen: -110.88509
AREA: 516.83 km2
elev_mean: 1689.69 m

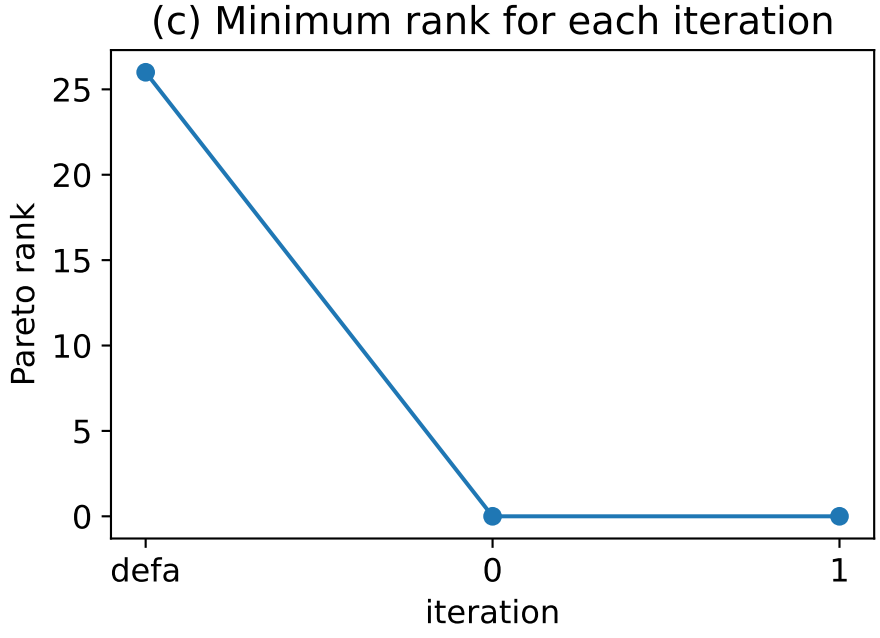

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 477
hru_id: 9505200
lat_cen: 34.70001
lon_cen: -111.51264
AREA: 287.45 km2
elev_mean: 1994.64 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 478
hru_id: 9505350
lat_cen: 34.82415
lon_cen: -111.61534
AREA: 369.90 km2
elev_mean: 1870.27 m

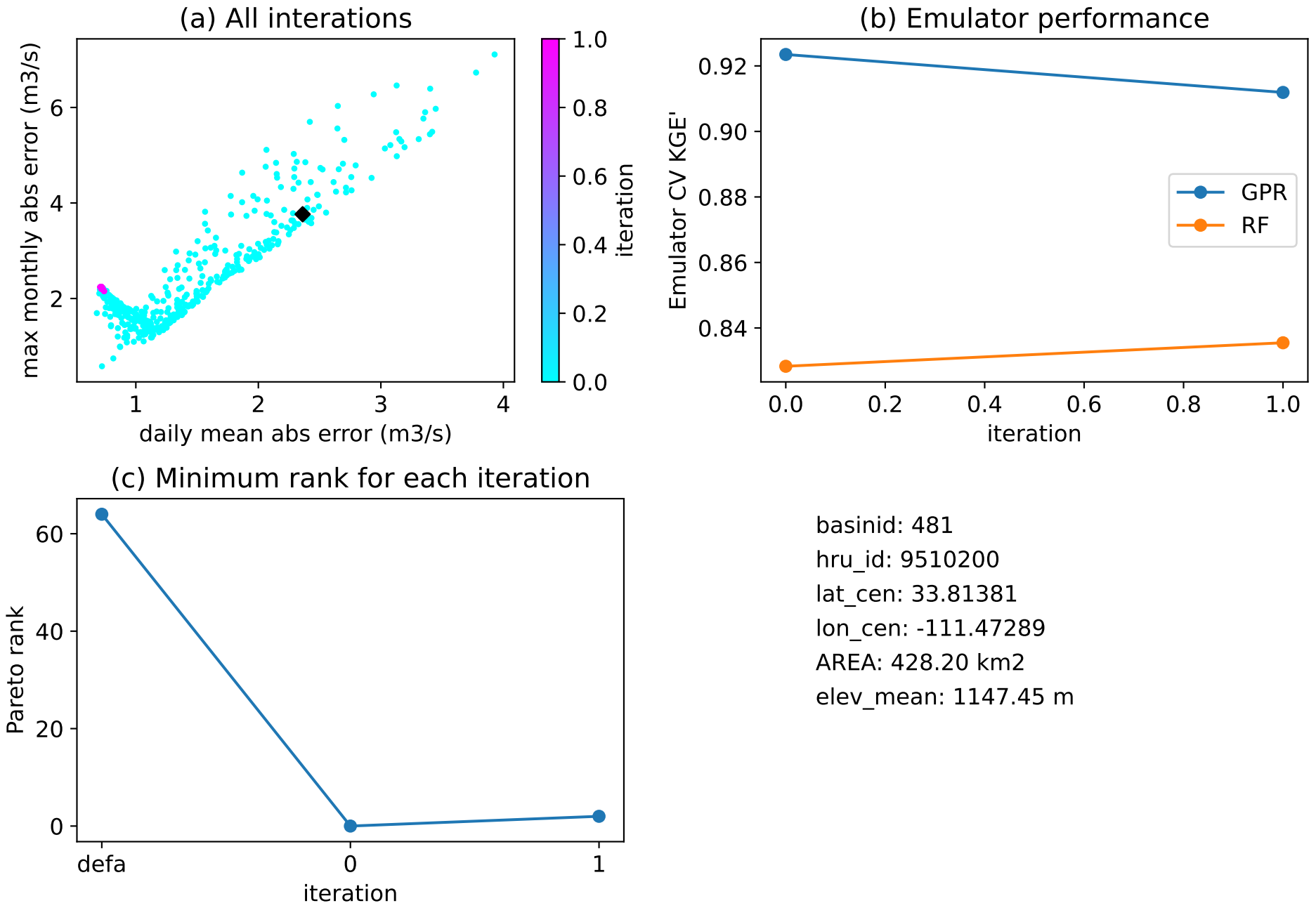

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 479
hru_id: 9505800
lat_cen: 34.59887
lon_cen: -111.42759
AREA: 624.73 km2
elev_mean: 2020.97 m

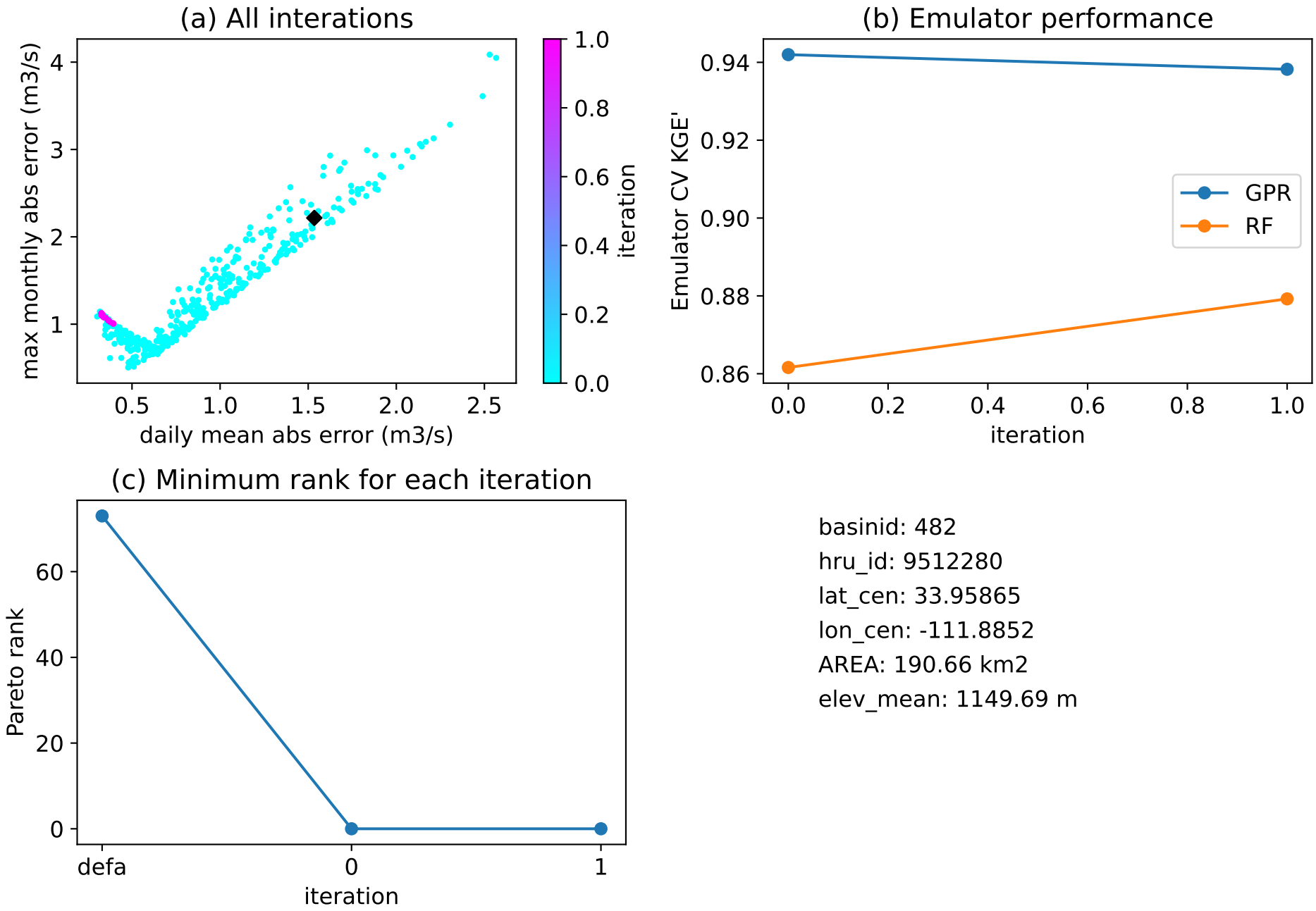


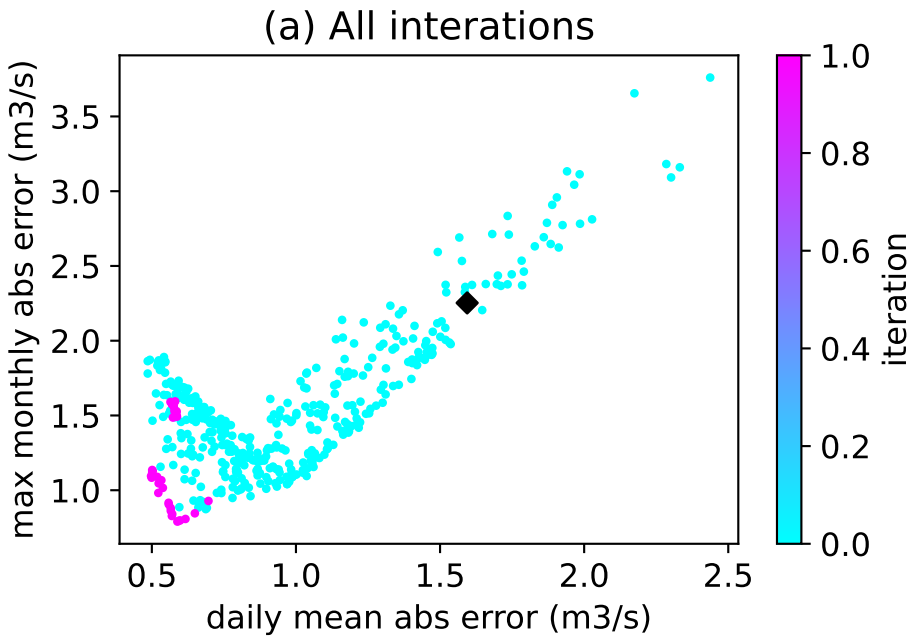


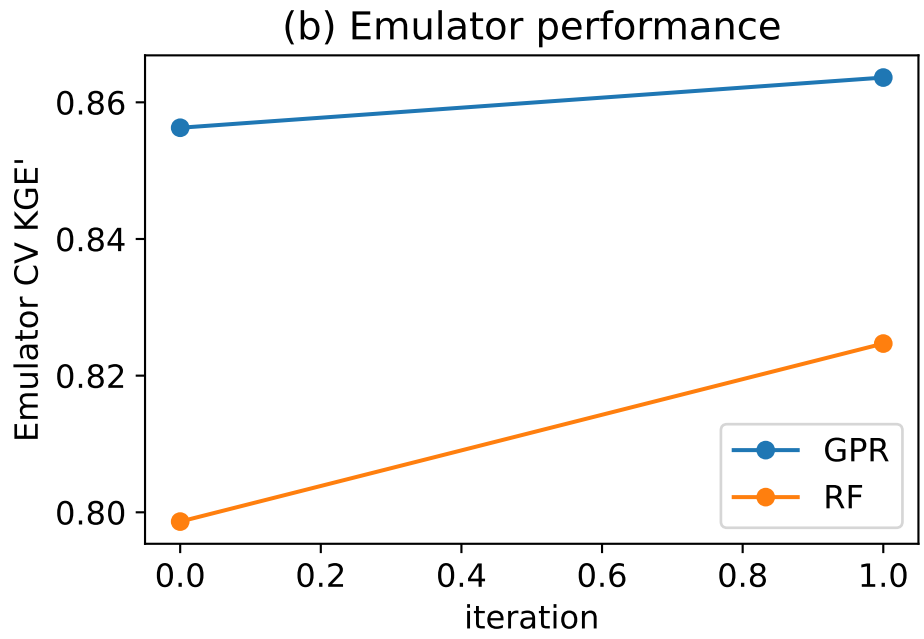


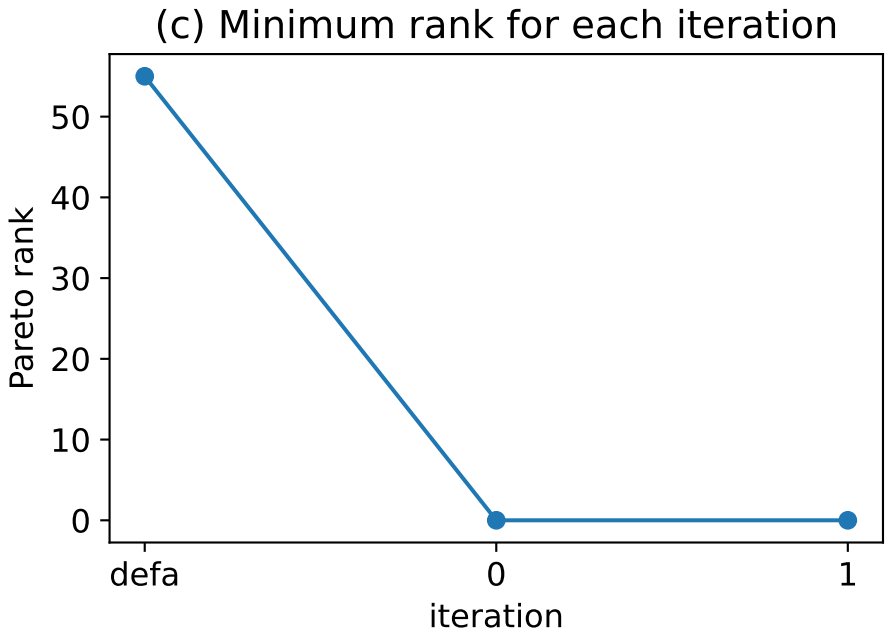
basinid: 480
hru_id: 9508300
lat_cen: 34.17229
lon_cen: -111.58172
AREA: 97.86 km2
elev_mean: 1485.26 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 481
hru_id: 9510200
lat_cen: 33.81381
lon_cen: -111.47289
AREA: 428.20 km2
elev_mean: 1147.45 m

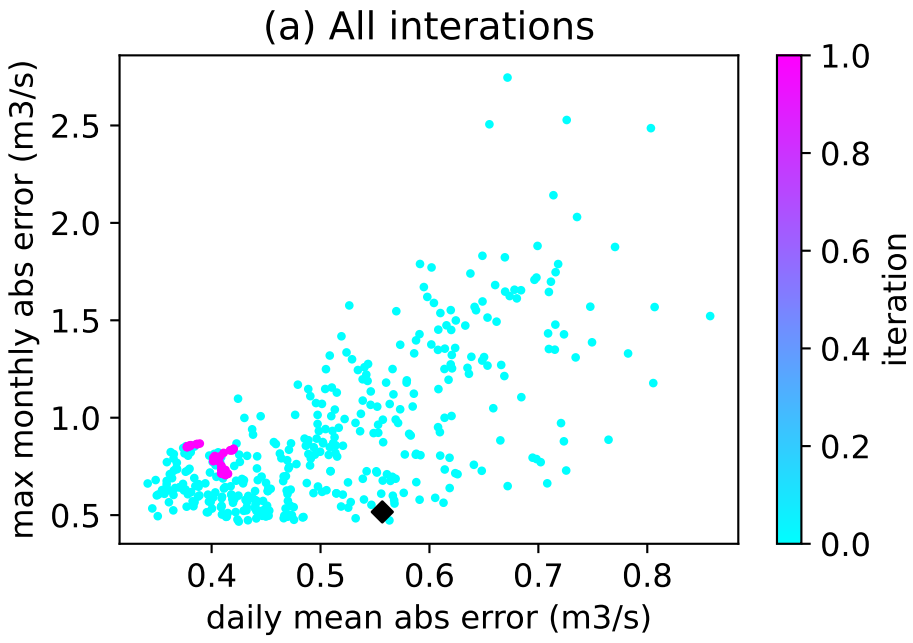

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 482
hru_id: 9512280
lat_cen: 33.95865
lon_cen: -111.8852
AREA: 190.66 km2
elev_mean: 1149.69 m

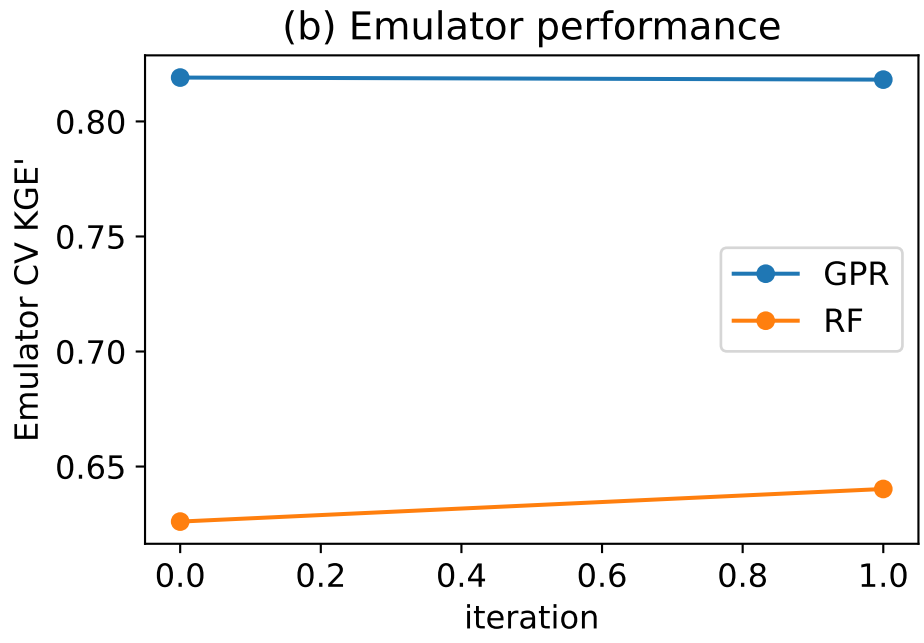


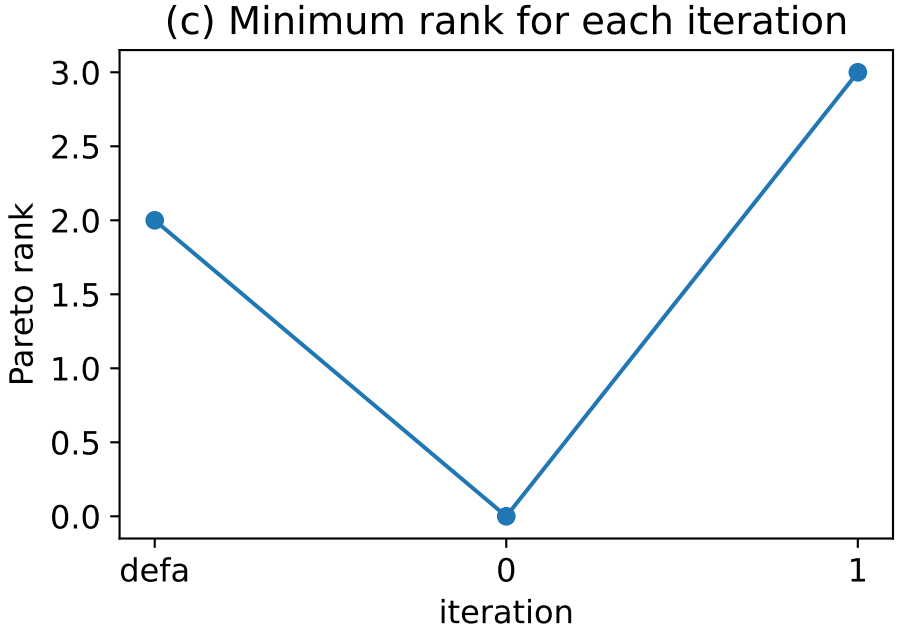




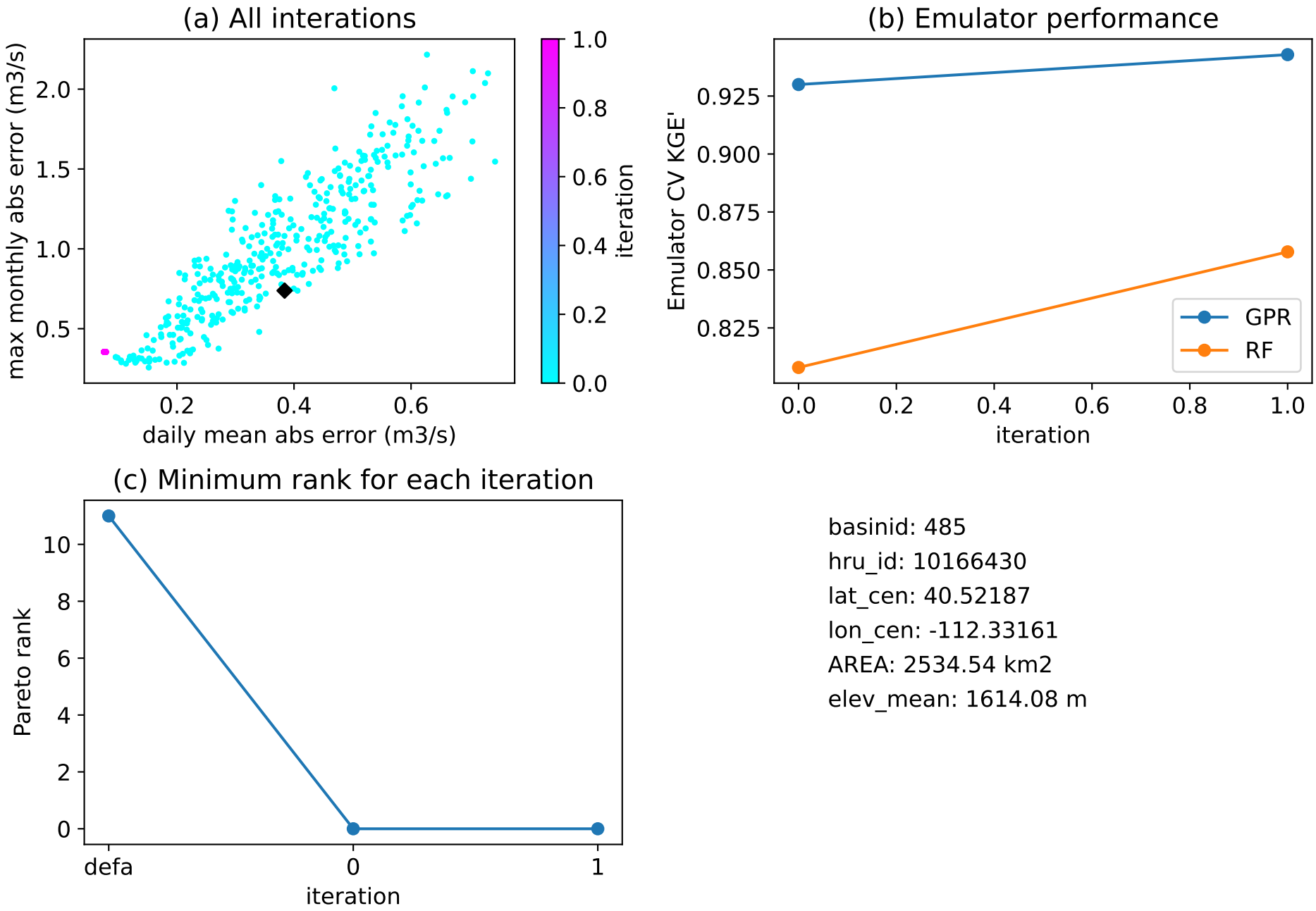
basinid: 483
hru_id: 9513780
lat_cen: 34.01047
lon_cen: -111.98727
AREA: 190.98 km2
elev_mean: 1153.02 m

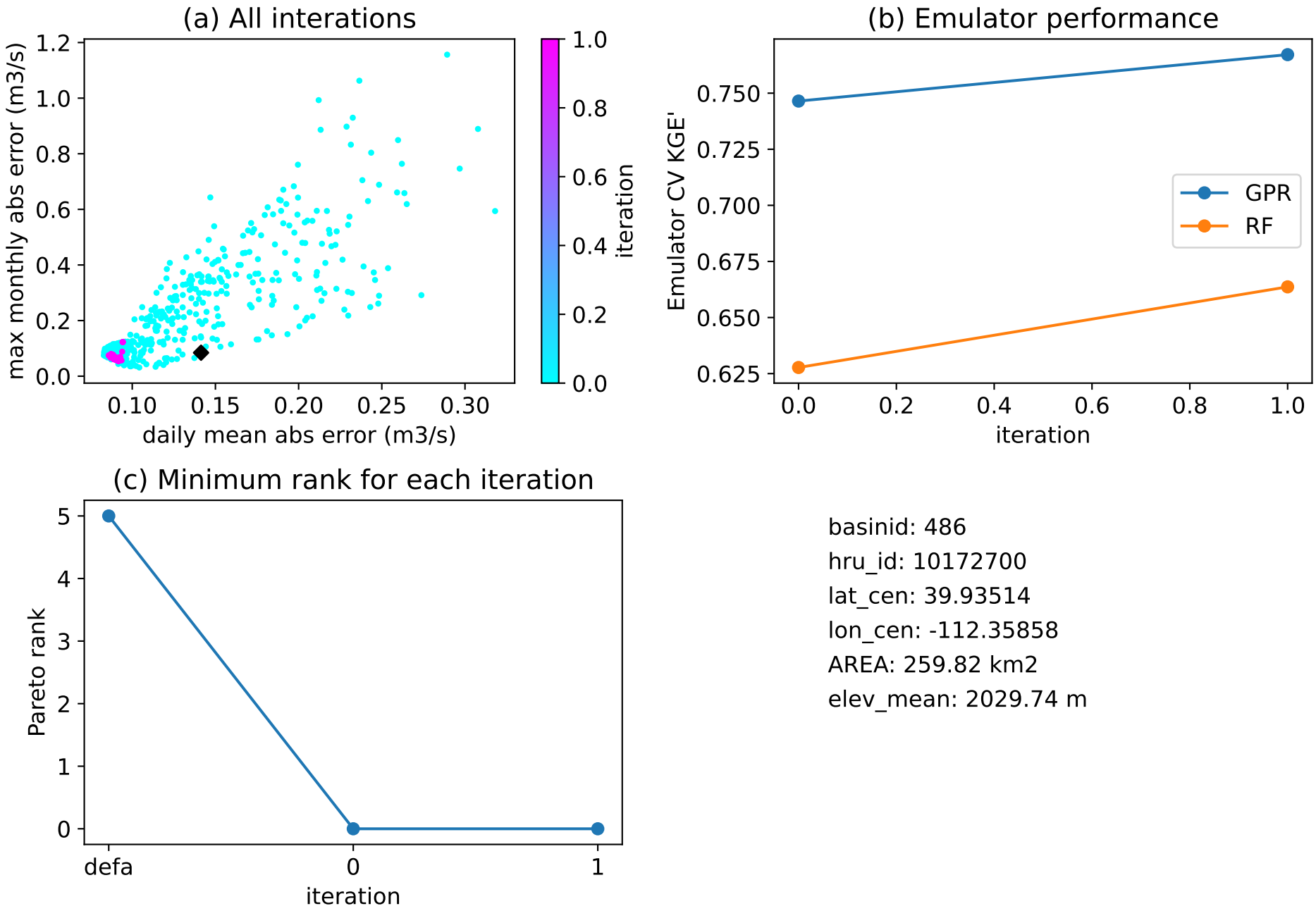


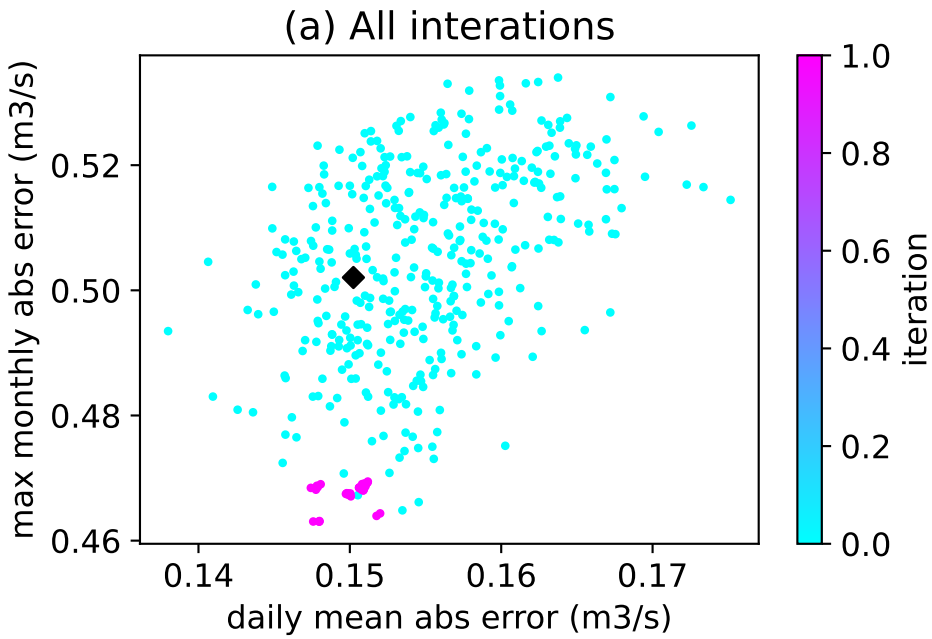


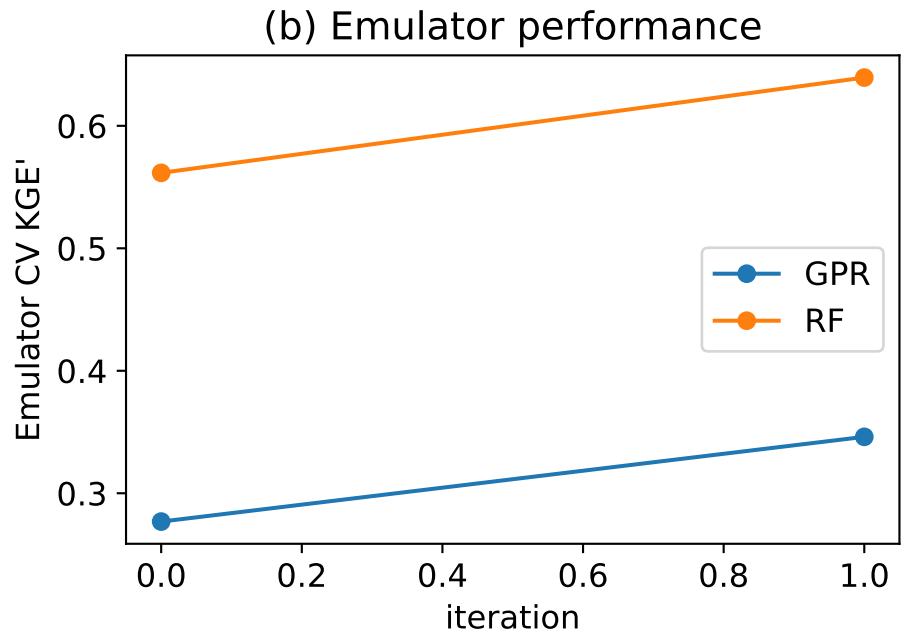


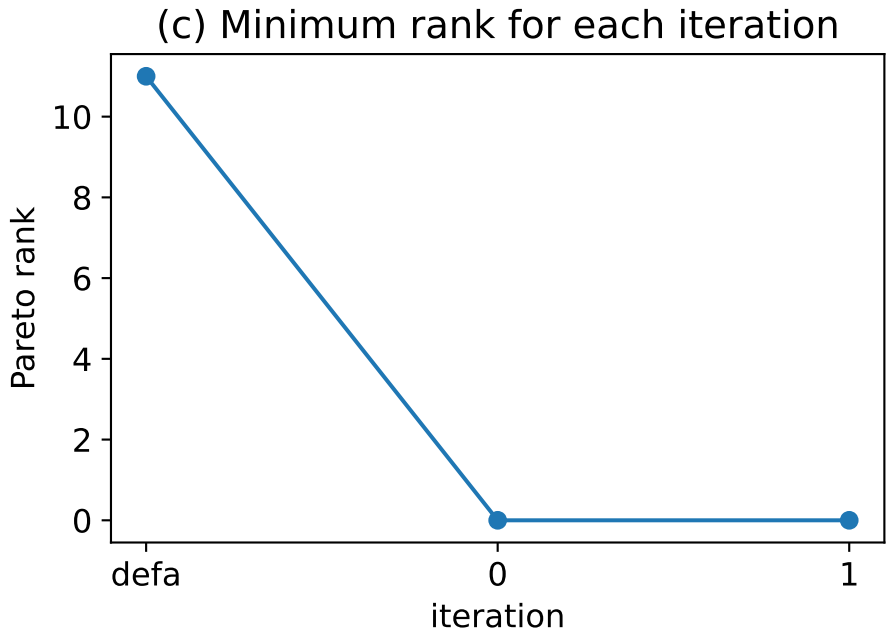
basinid: 484
hru_id: 10023000
lat_cen: 41.5837
lon_cen: -111.34368
AREA: 147.45 km2
elev_mean: 2230.56 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 485
hru_id: 10166430
lat_cen: 40.52187
lon_cen: -112.33161
AREA: 2534.54 km2
elev_mean: 1614.08 m

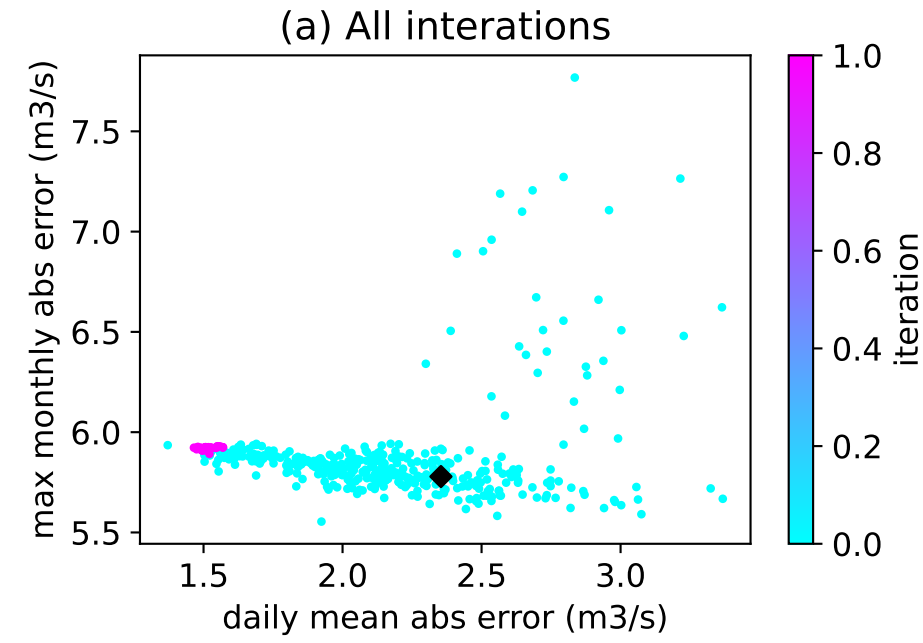

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 486
hru_id: 10172700
lat_cen: 39.93514
lon_cen: -112.35858
AREA: 259.82 km2
elev_mean: 2029.74 m

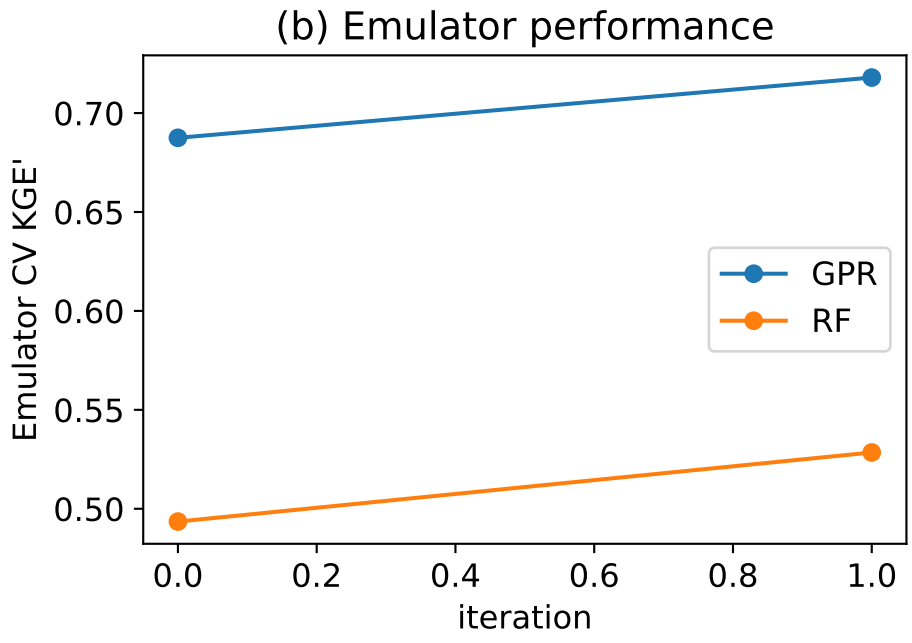


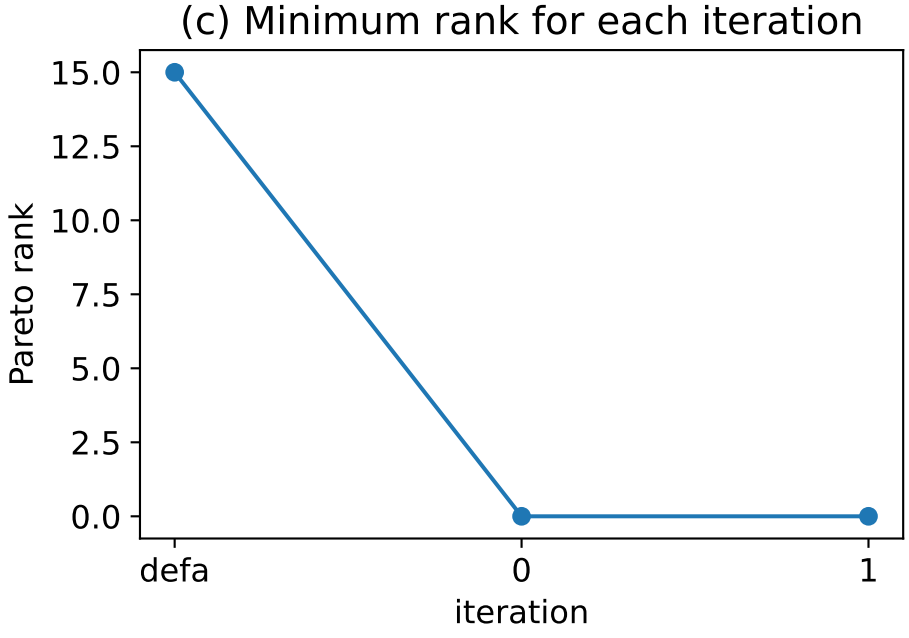




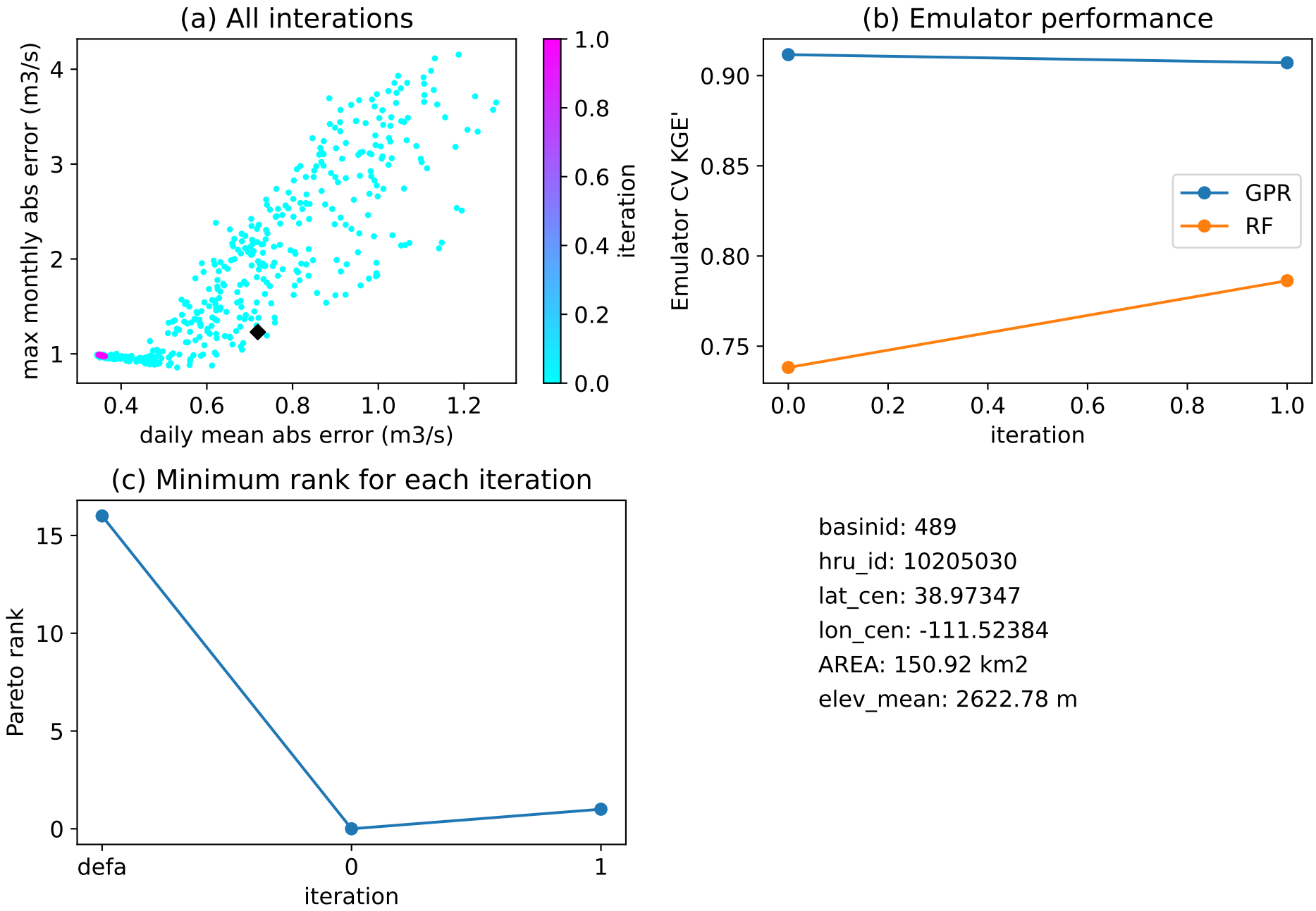
basinid: 487
hru_id: 10172800
lat_cen: 40.50197
lon_cen: -112.57788
AREA: 76.51 km2
elev_mean: 2205.58 m

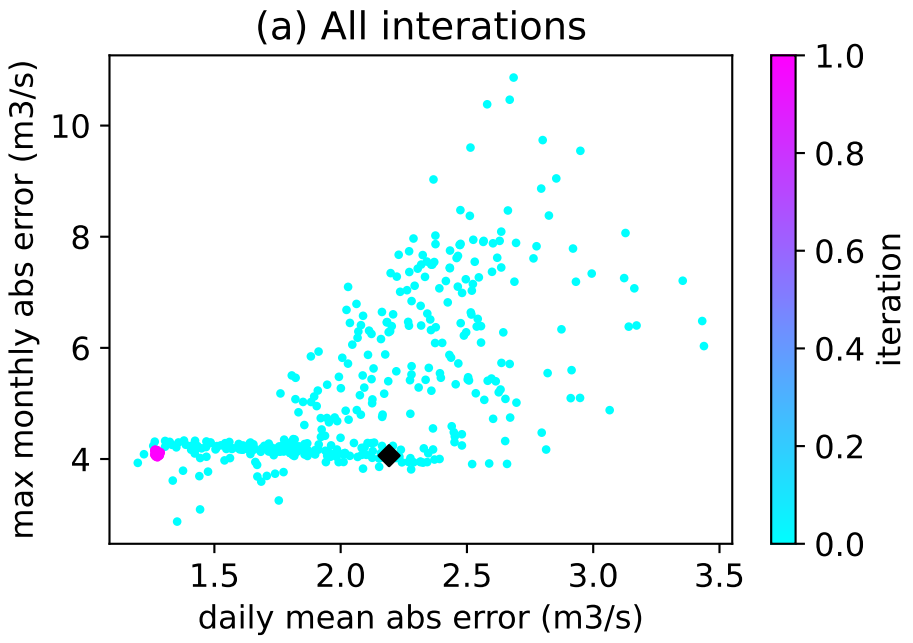


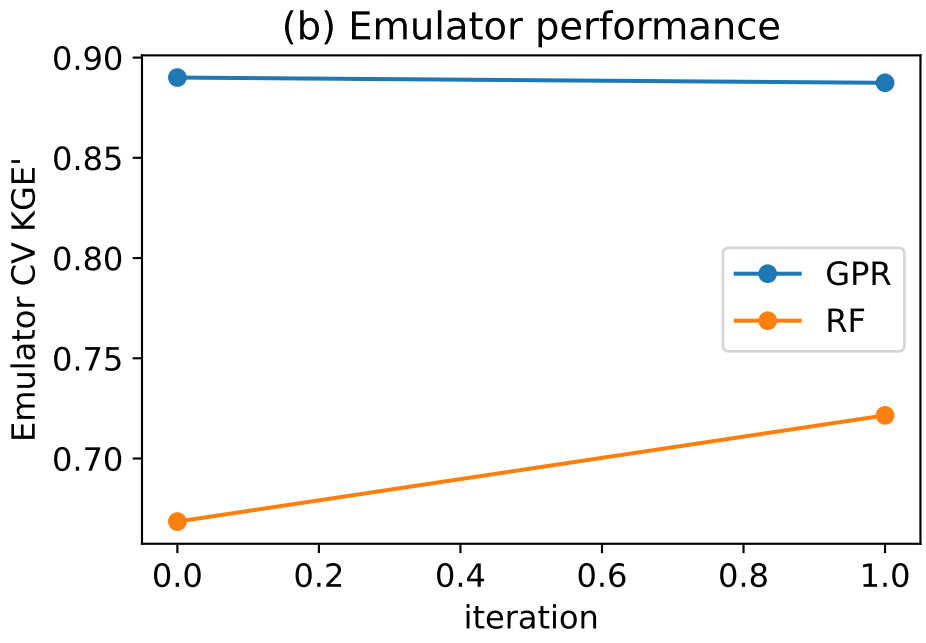


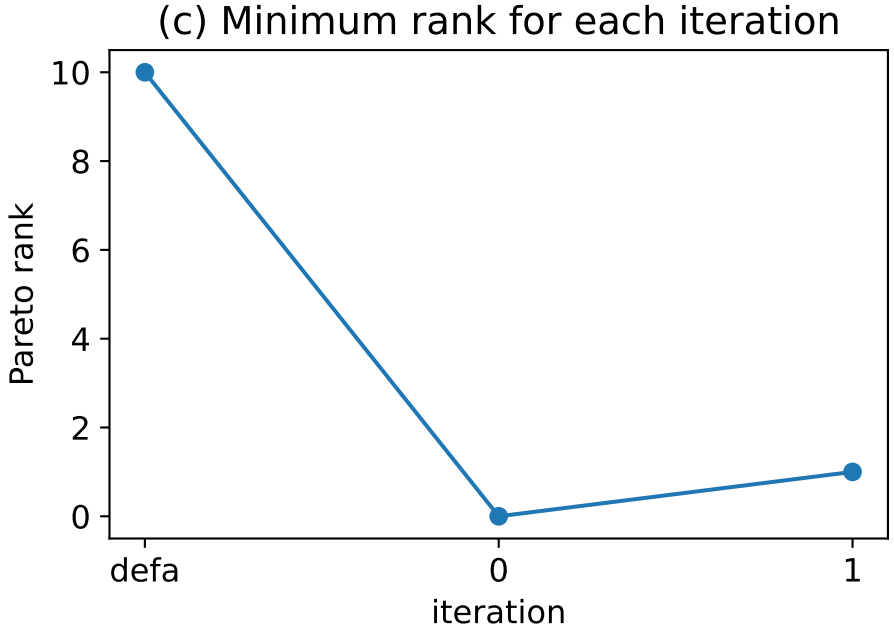


basinid: 488
hru_id: 10173450
lat_cen: 37.62724
lon_cen: -112.69434
AREA: 281.69 km2
elev_mean: 2780.68 m

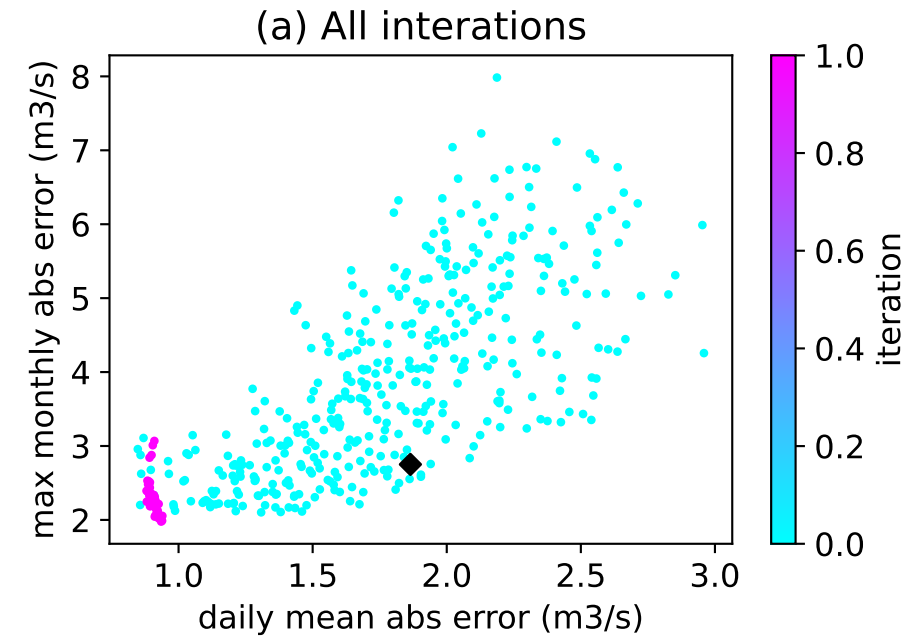

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 489
hru_id: 10205030
lat_cen: 38.97347
lon_cen: -111.52384
AREA: 150.92 km2
elev_mean: 2622.78 m

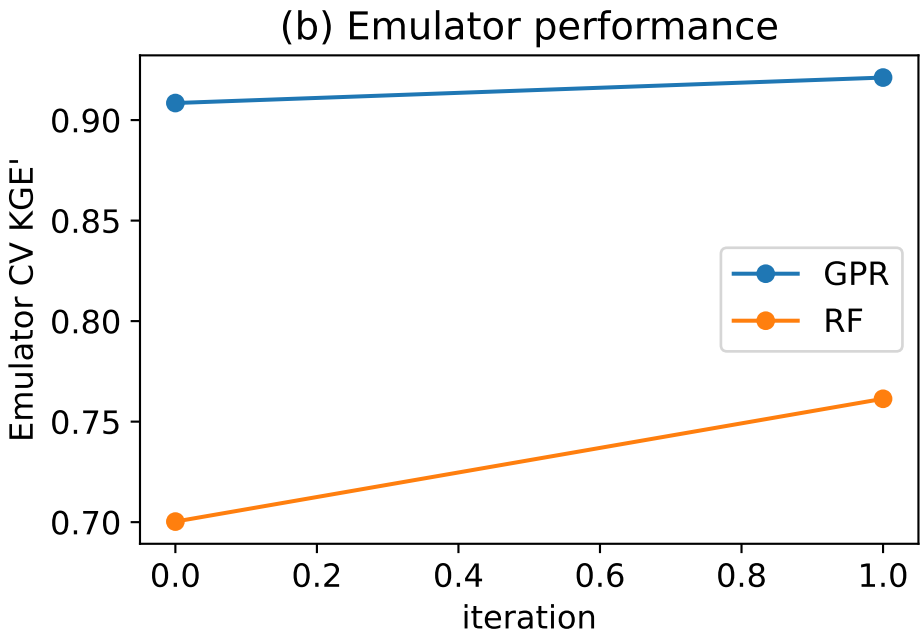


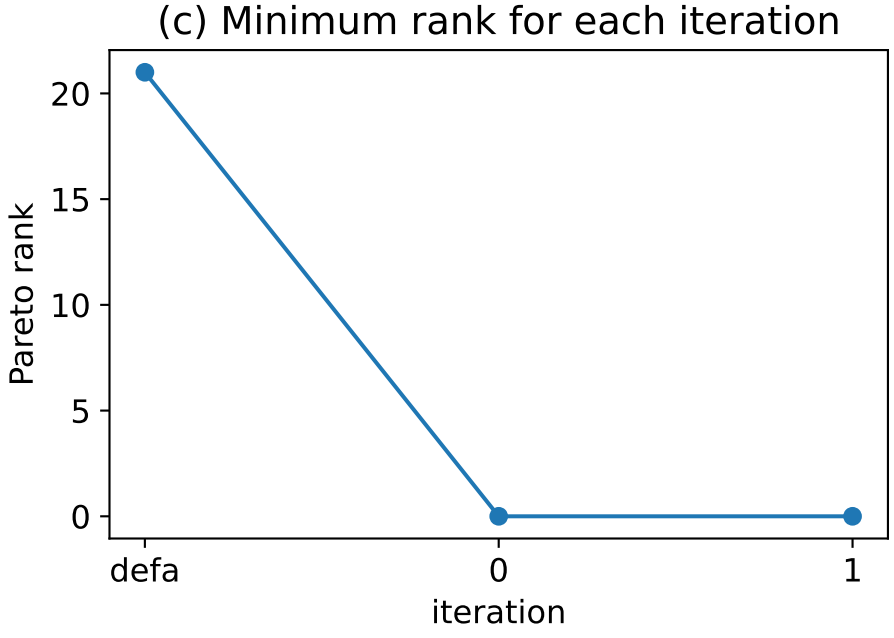




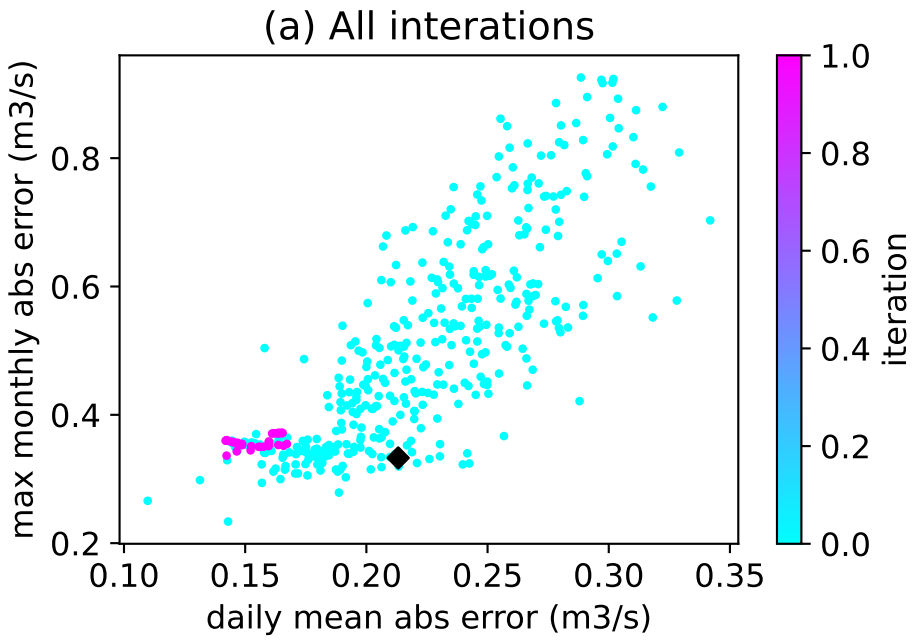
basinid: 490
hru_id: 10234500
lat_cen: 38.28442
lon_cen: -112.43792
AREA: 238.37 km2
elev_mean: 2802.59 m

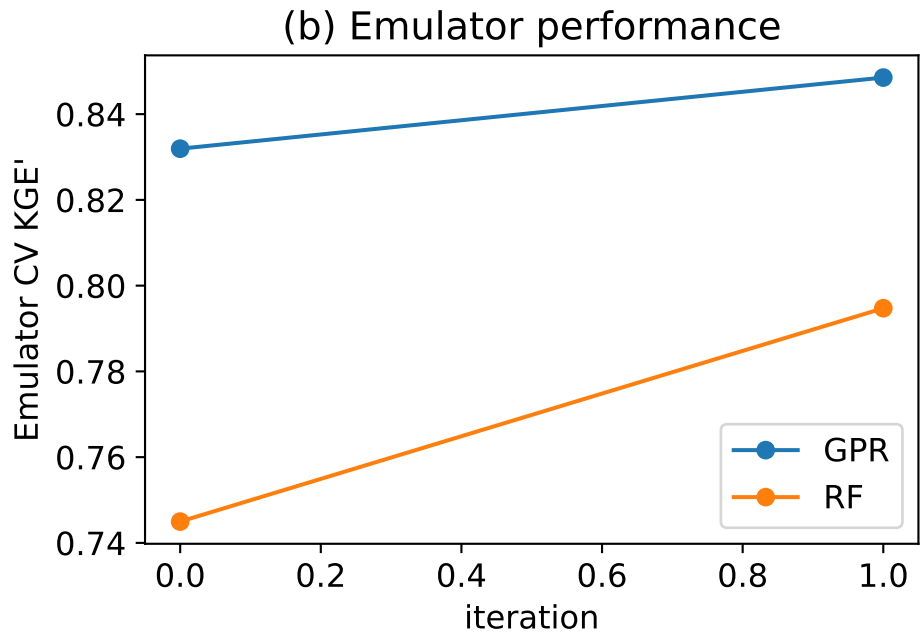


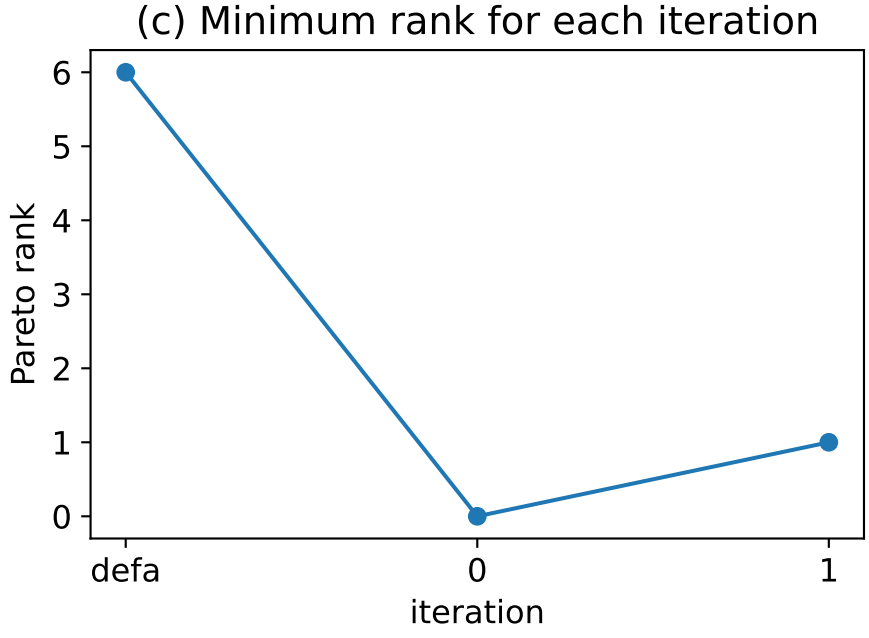




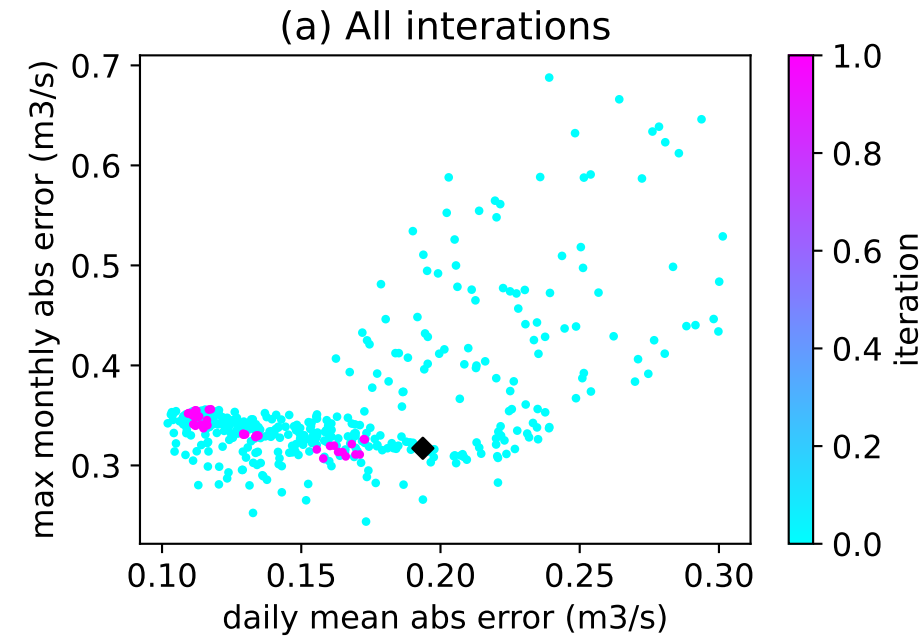
basinid: 491
hru_id: 10242000
lat_cen: 37.70364
lon_cen: -113.19201
AREA: 1903.42 km2
elev_mean: 1936.22 m

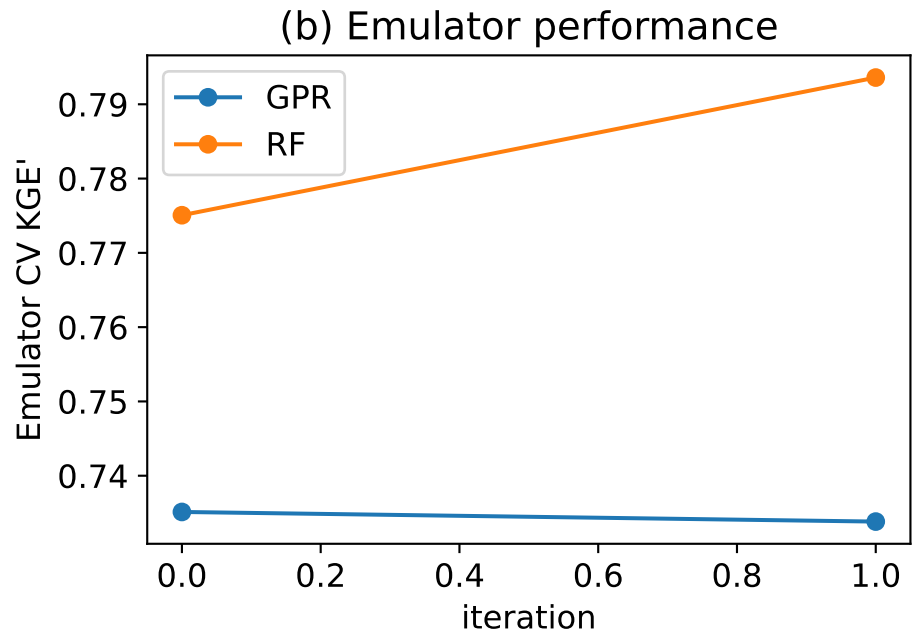


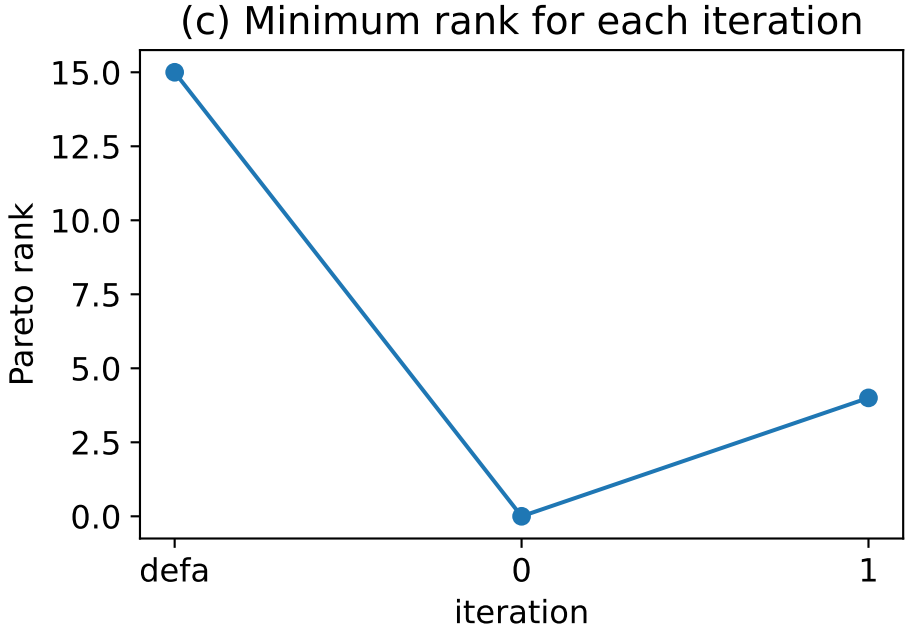




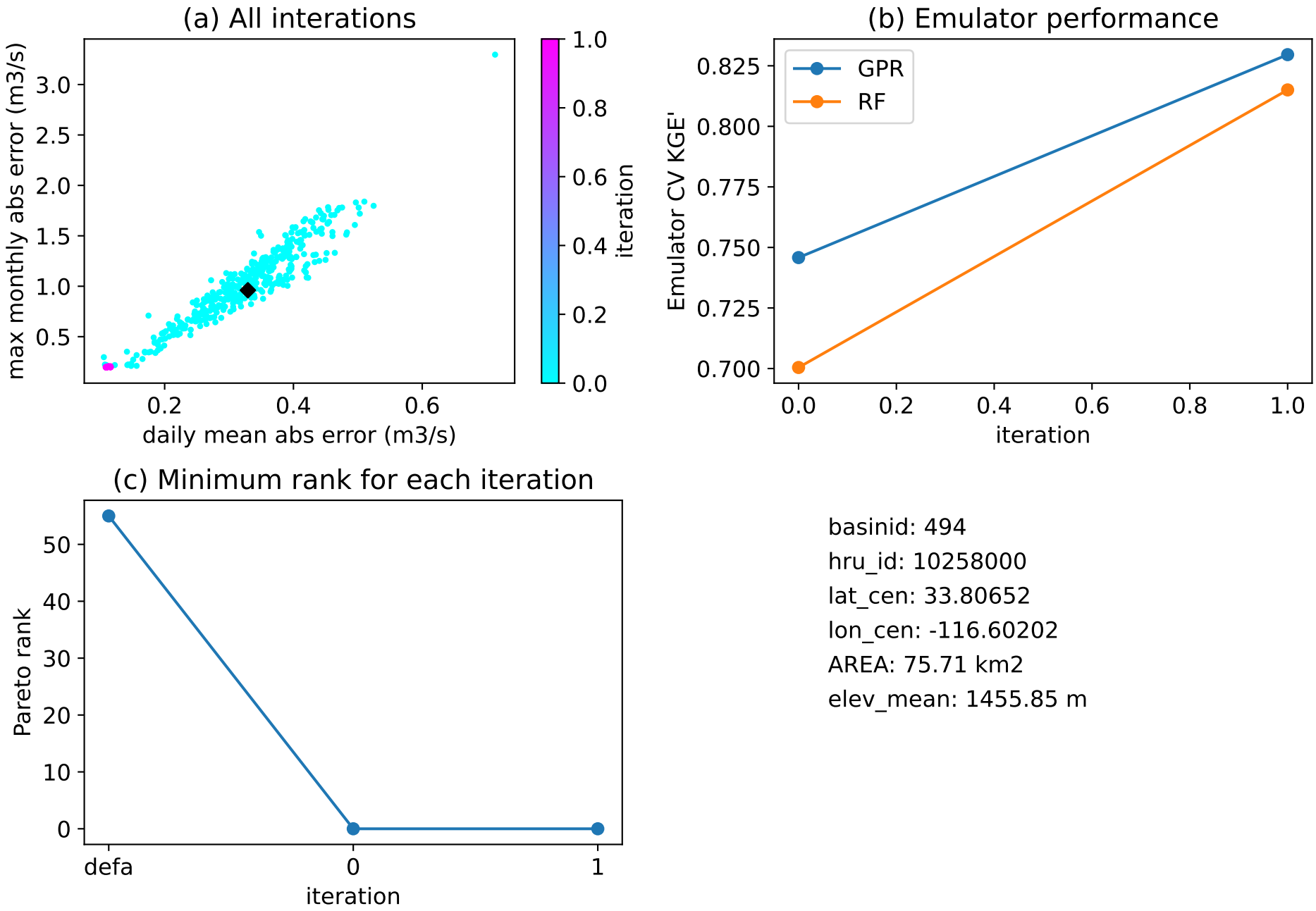
basinid: 492
hru_id: 10244950
lat_cen: 39.23253
lon_cen: -114.67992
AREA: 28.92 km2
elev_mean: 2712.93 m

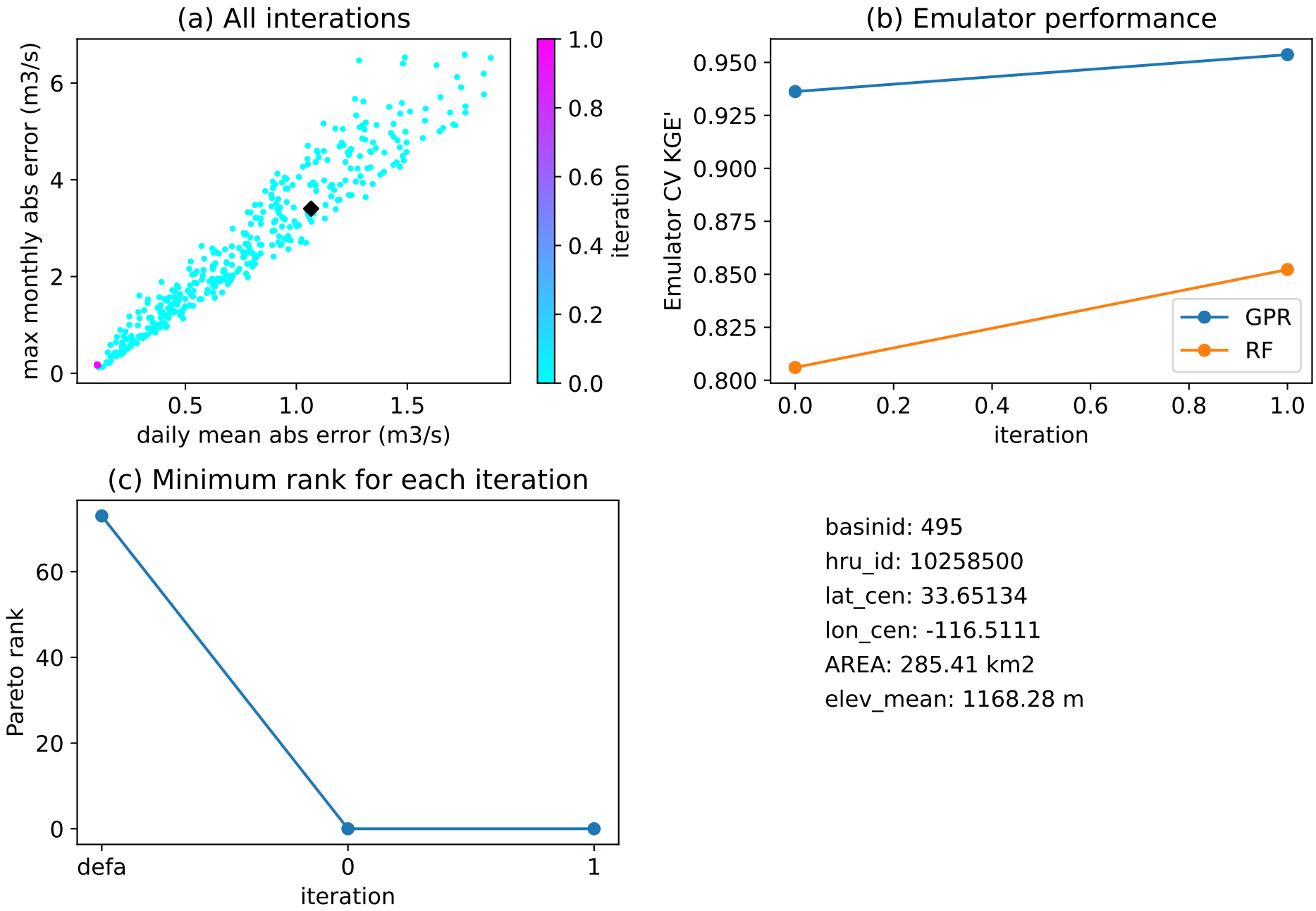


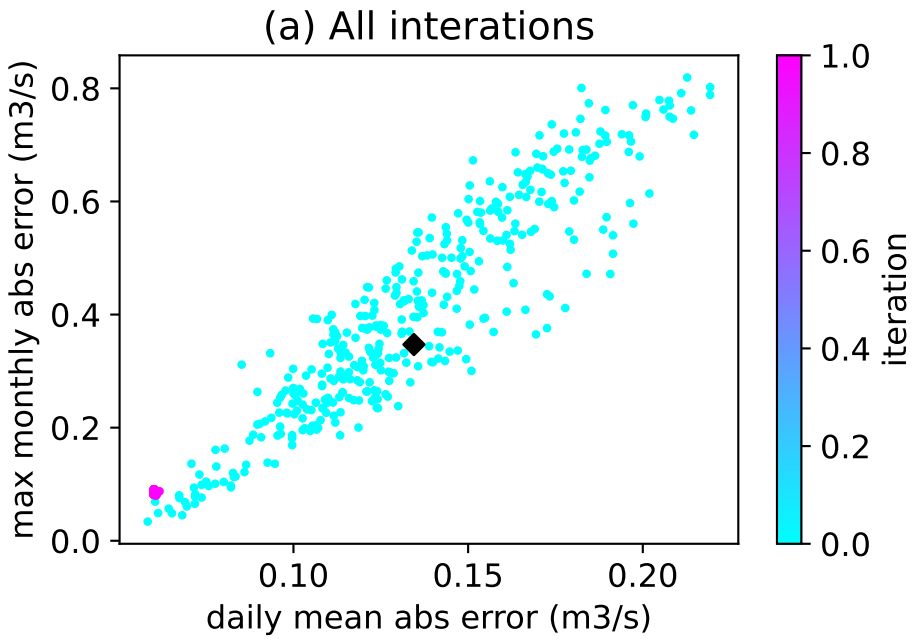


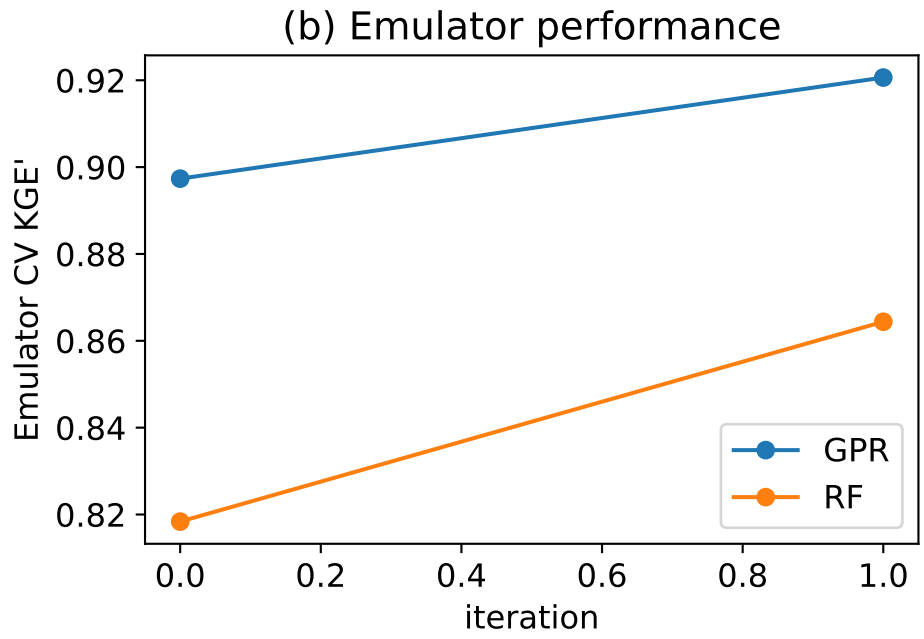


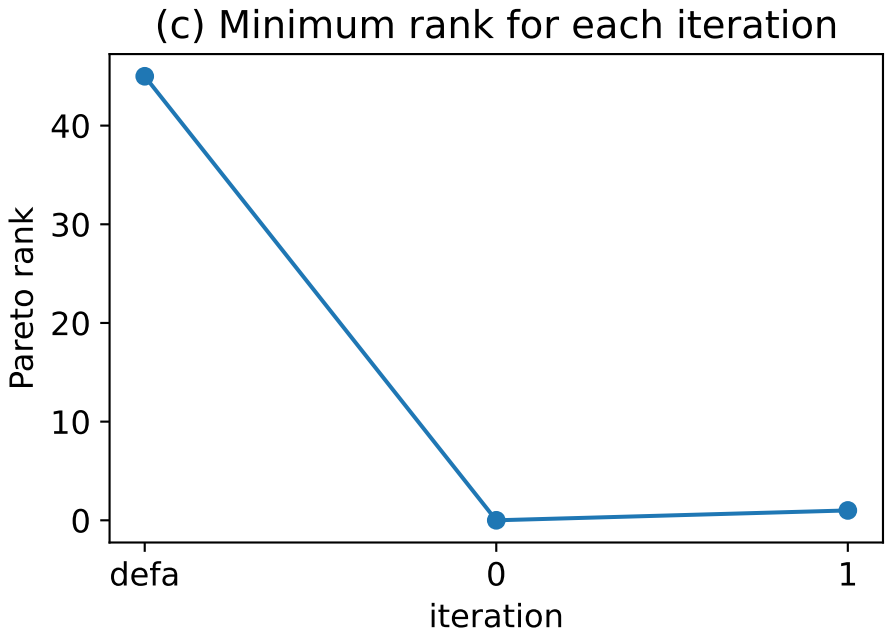
basinid: 493
hru_id: 10249300
lat_cen: 38.78975
lon_cen: -117.13061
AREA: 609.01 km2
elev_mean: 2069.22 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 494
hru_id: 10258000
lat_cen: 33.80652
lon_cen: -116.60202
AREA: 75.71 km2
elev_mean: 1455.85 m

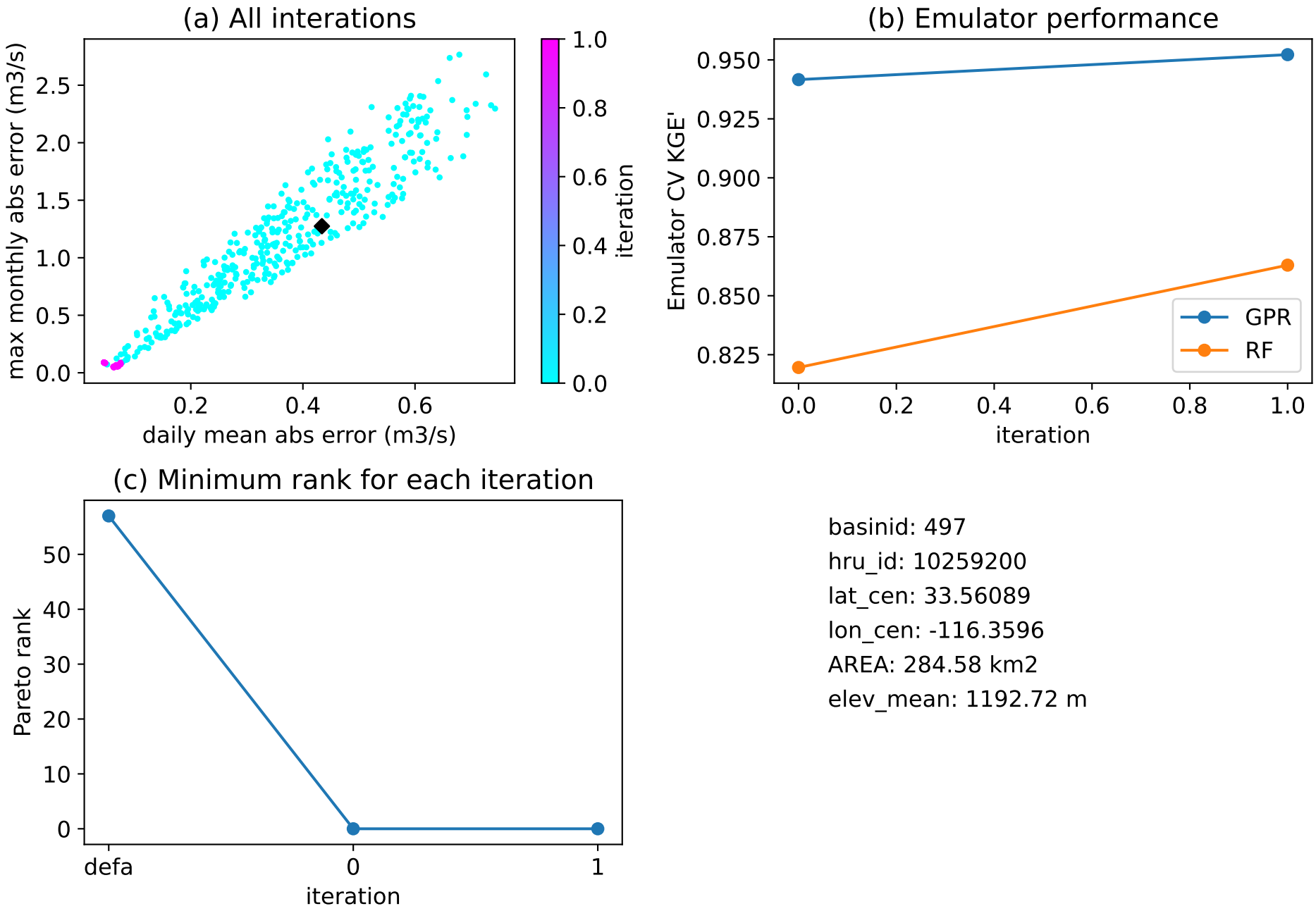

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 495
hru_id: 10258500
lat_cen: 33.65134
lon_cen: -116.5111
AREA: 285.41 km2
elev_mean: 1168.28 m

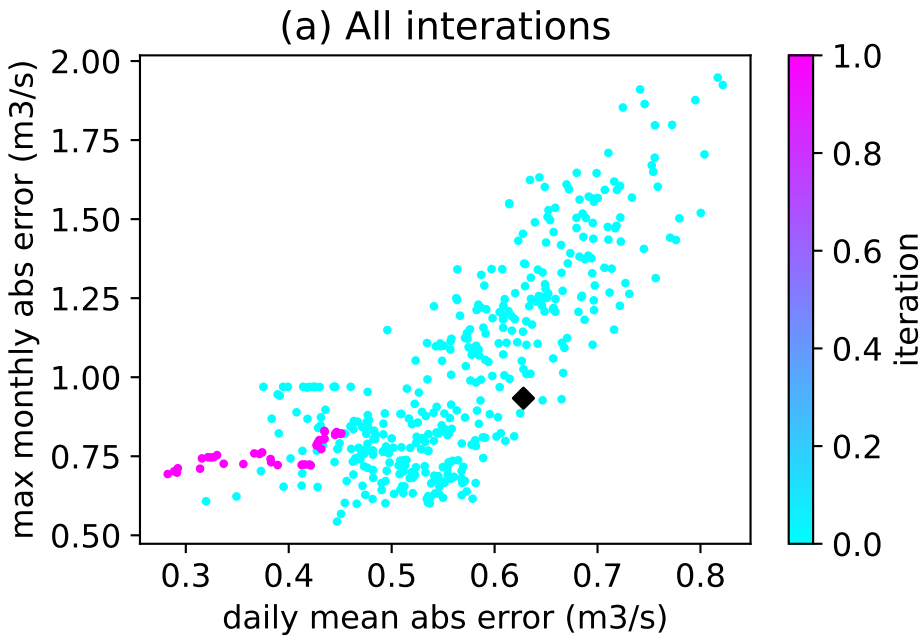


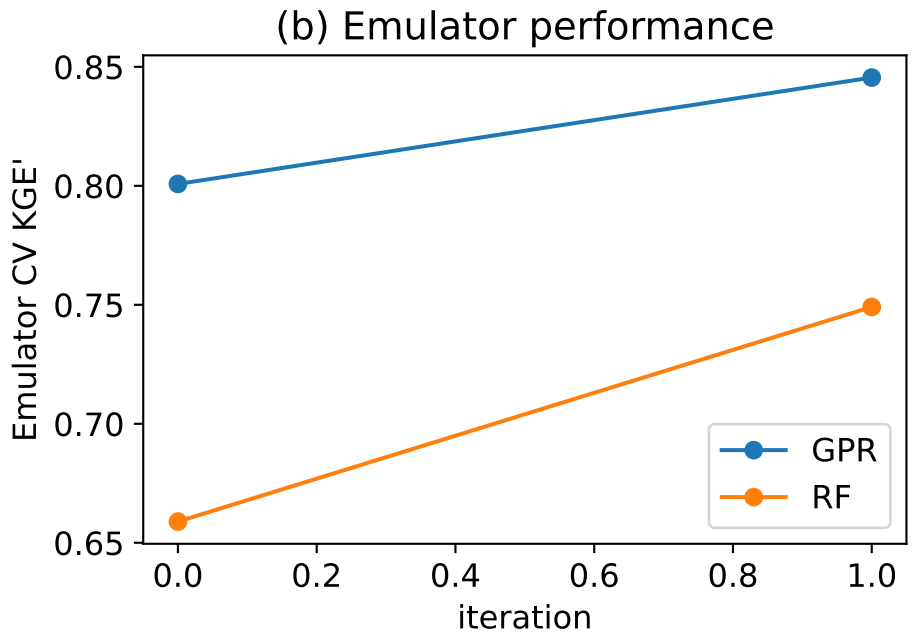


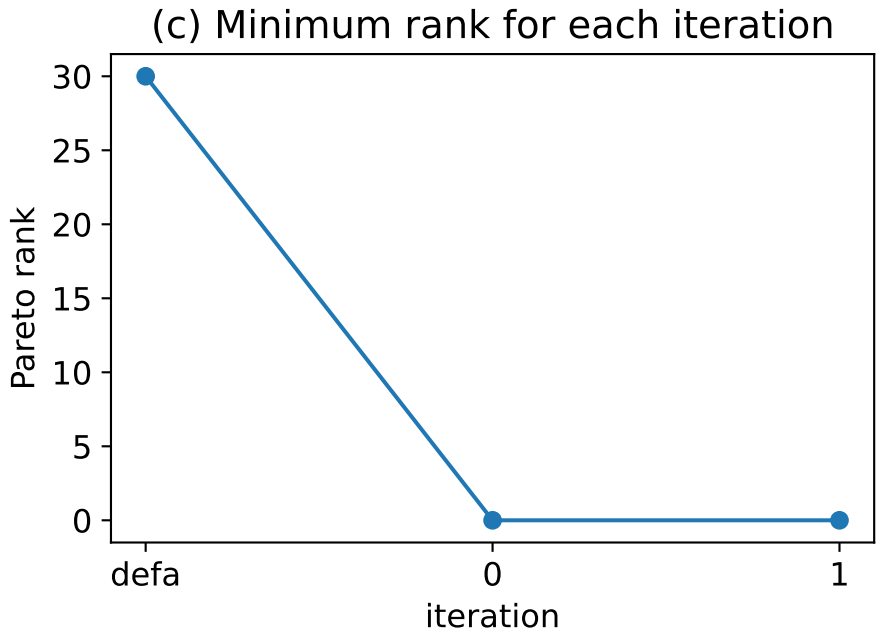


basinid: 496
hru_id: 10259000
lat_cen: 33.76269
lon_cen: -116.59863
AREA: 23.66 km2
elev_mean: 1362.23 m

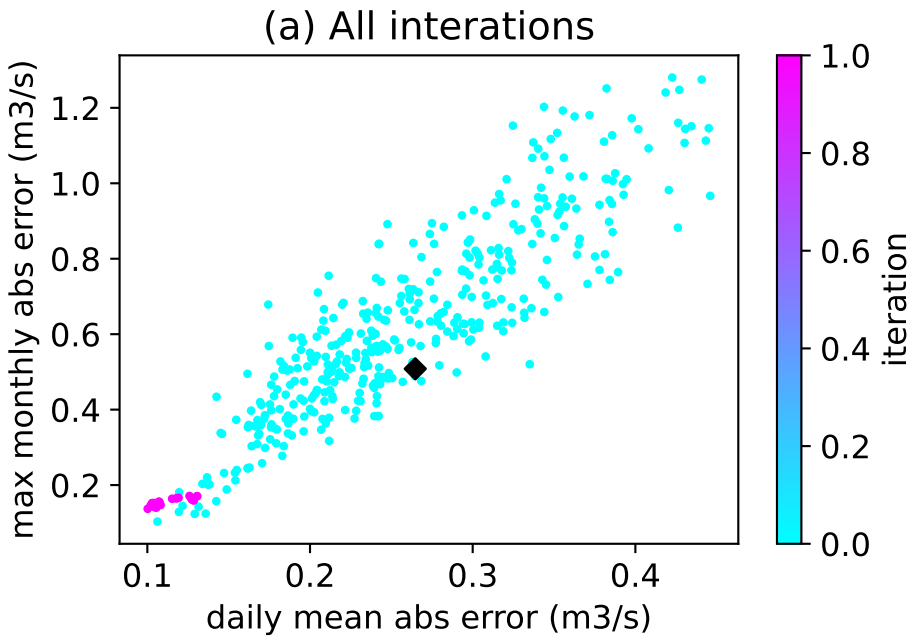

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 497
hru_id: 10259200
lat_cen: 33.56089
lon_cen: -116.3596
AREA: 284.58 km2
elev_mean: 1192.72 m

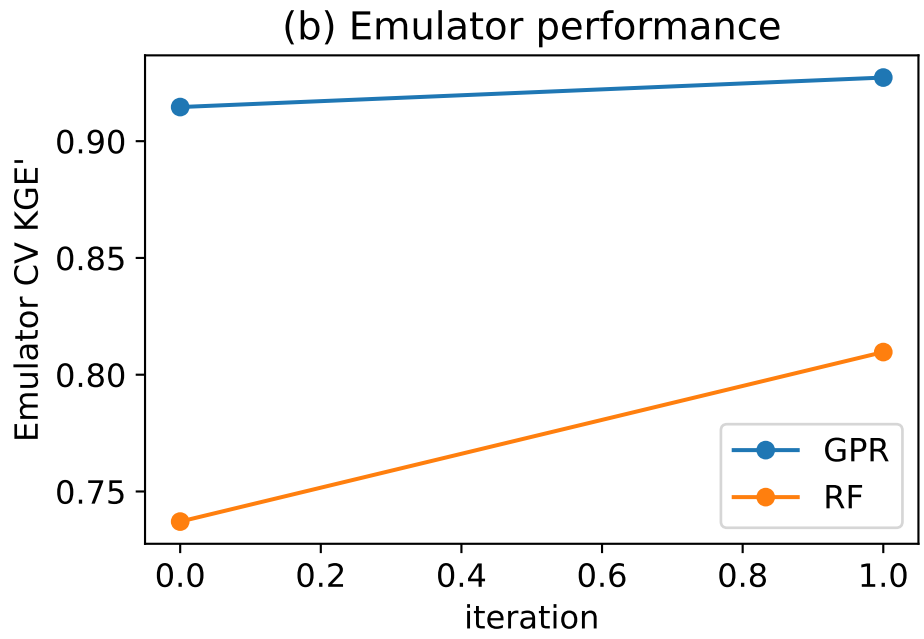


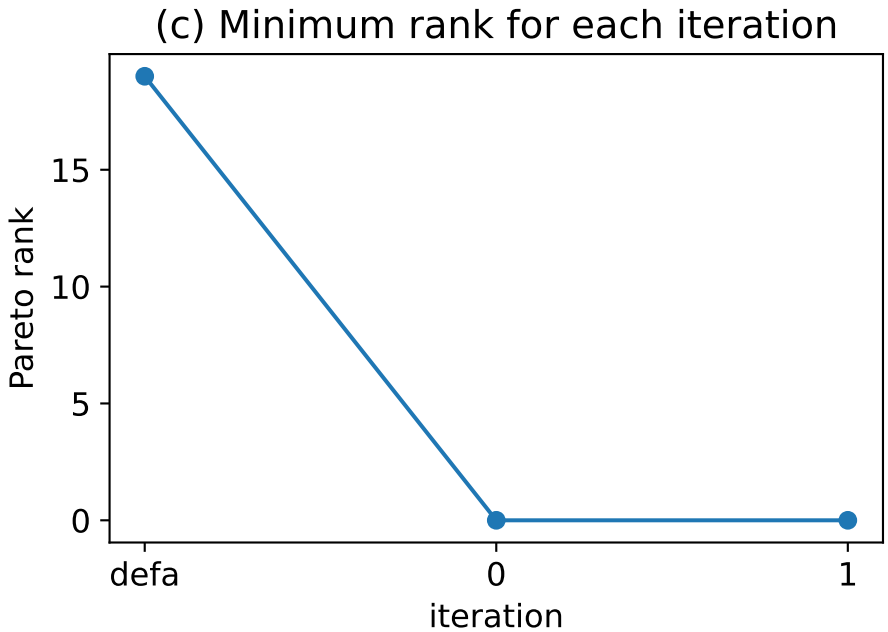




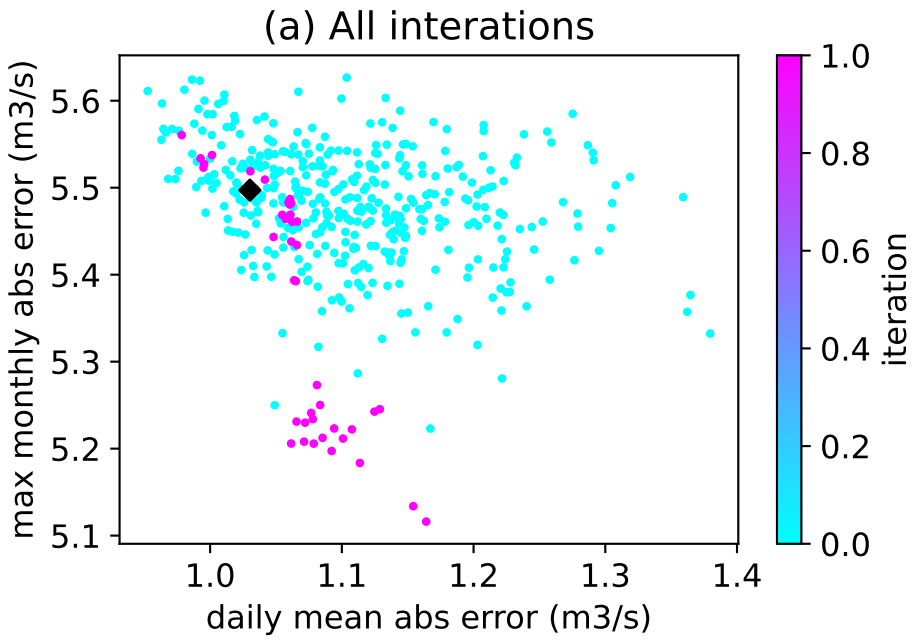
basinid: 498
hru_id: 10263500
lat_cen: 34.42903
lon_cen: -117.74868
AREA: 310.26 km2
elev_mean: 1480.09 m

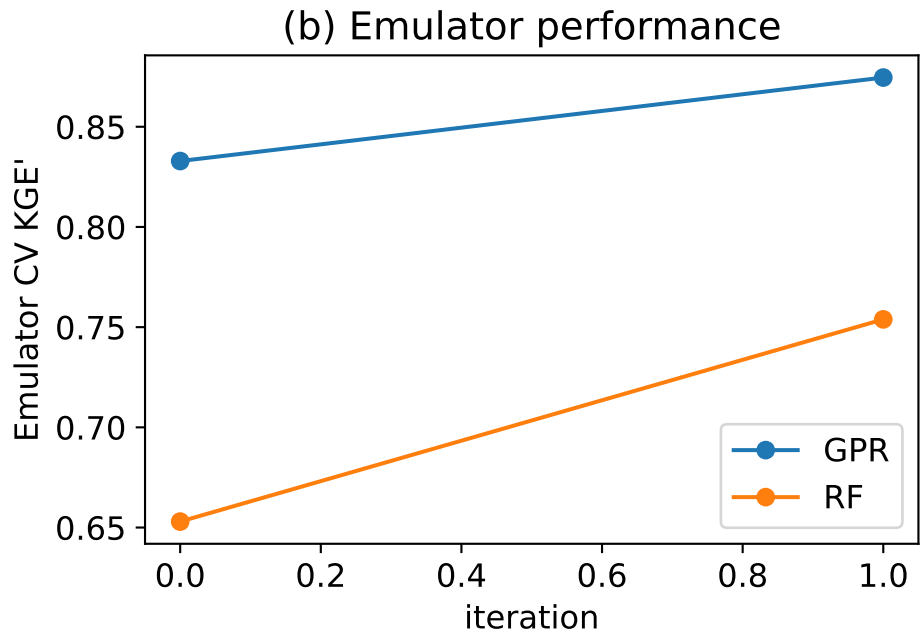


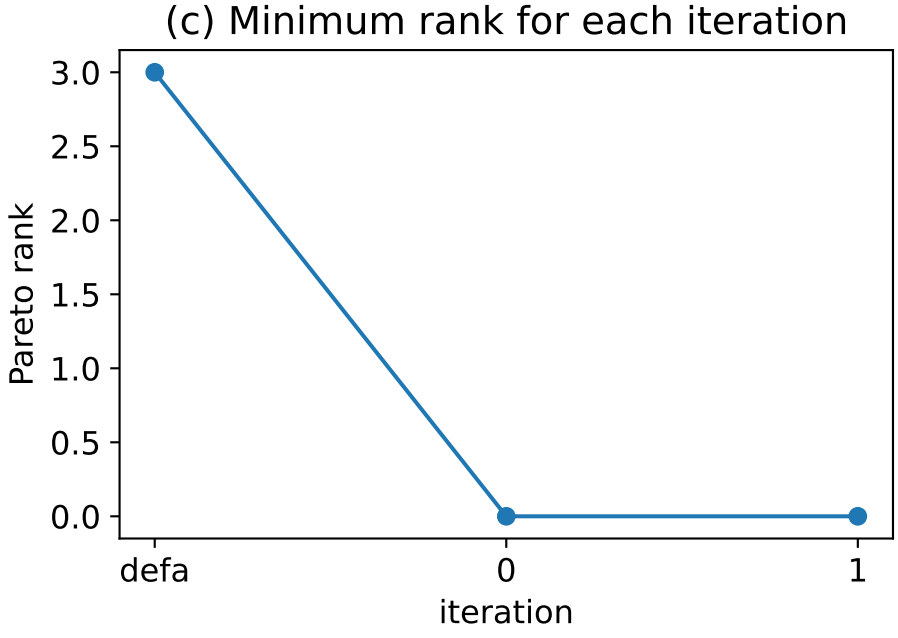




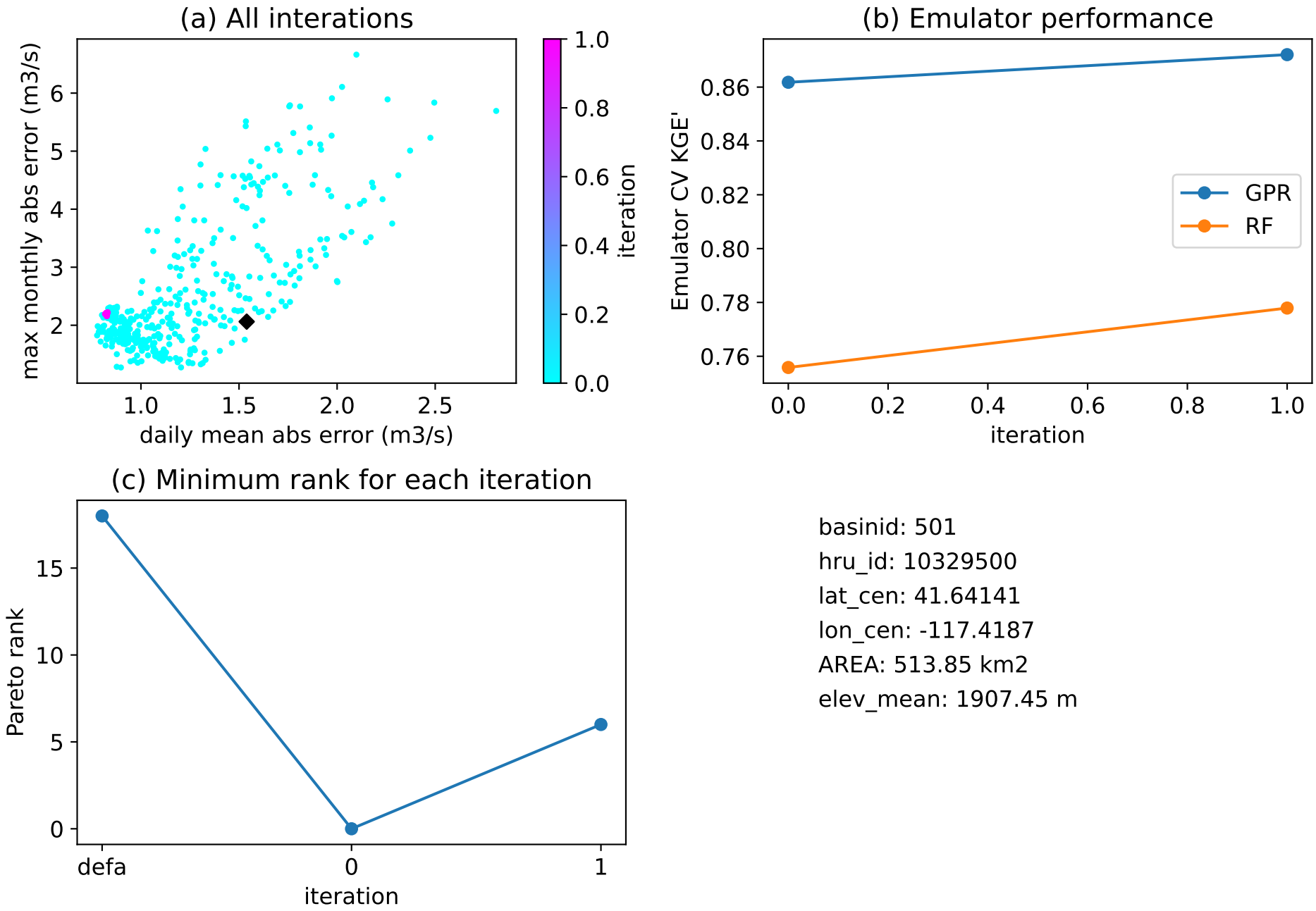
basinid: 499
hru_id: 10310500
lat_cen: 39.11748
lon_cen: -119.84657
AREA: 47.65 km2
elev_mean: 1983.66 m

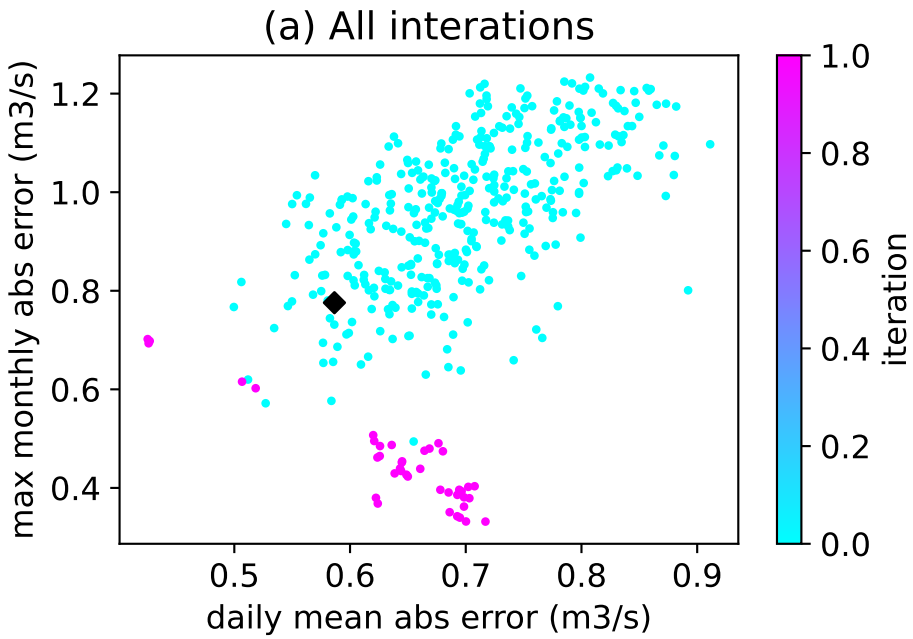


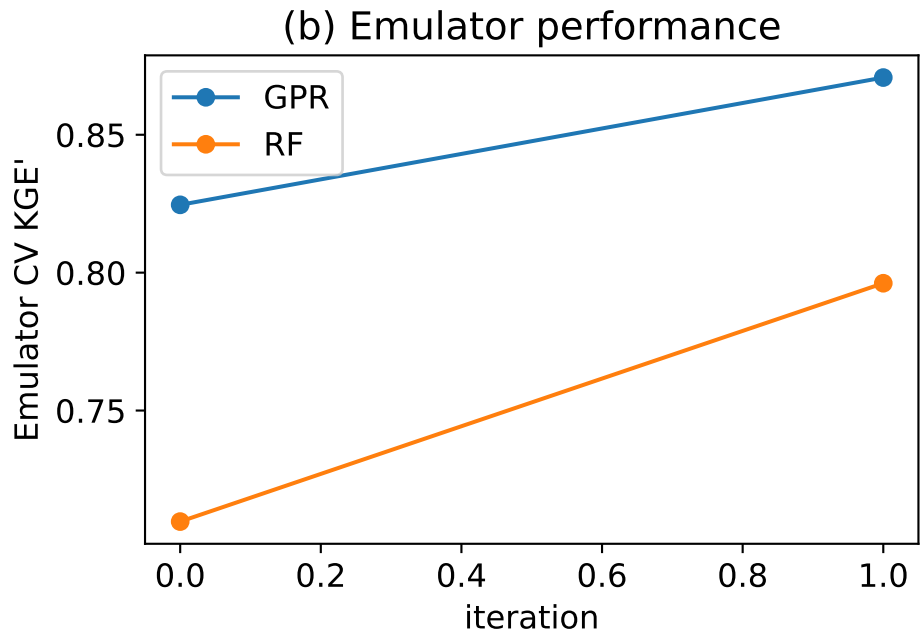


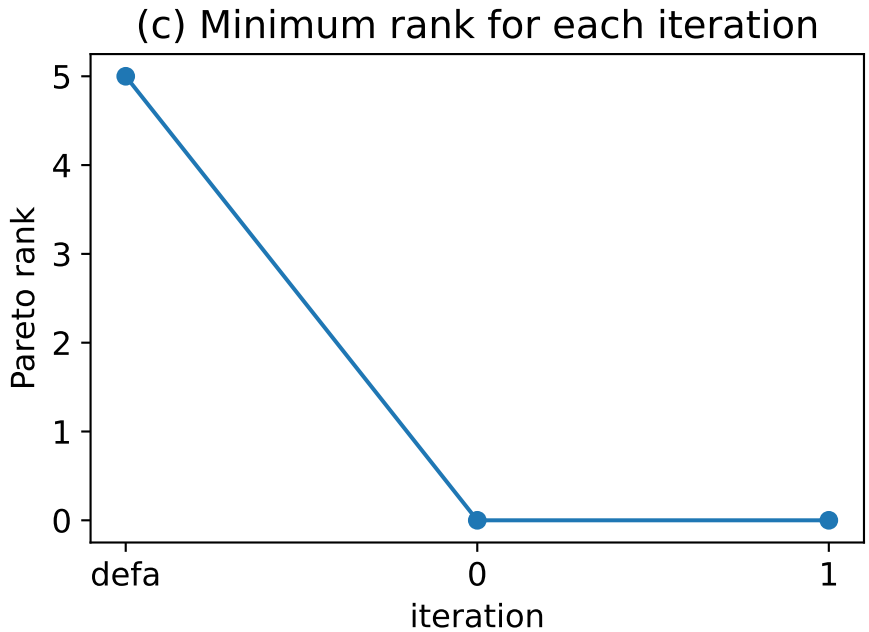


basinid: 500
hru_id: 10316500
lat_cen: 40.62362
lon_cen: -115.39398
AREA: 90.88 km2
elev_mean: 2714.34 m

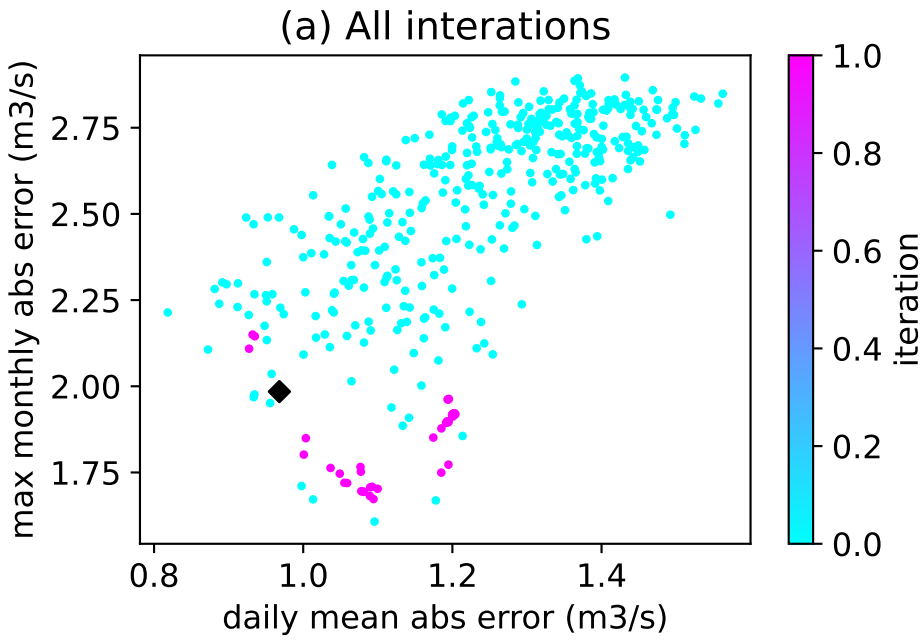

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 501
hru_id: 10329500
lat_cen: 41.64141
lon_cen: -117.4187
AREA: 513.85 km2
elev_mean: 1907.45 m

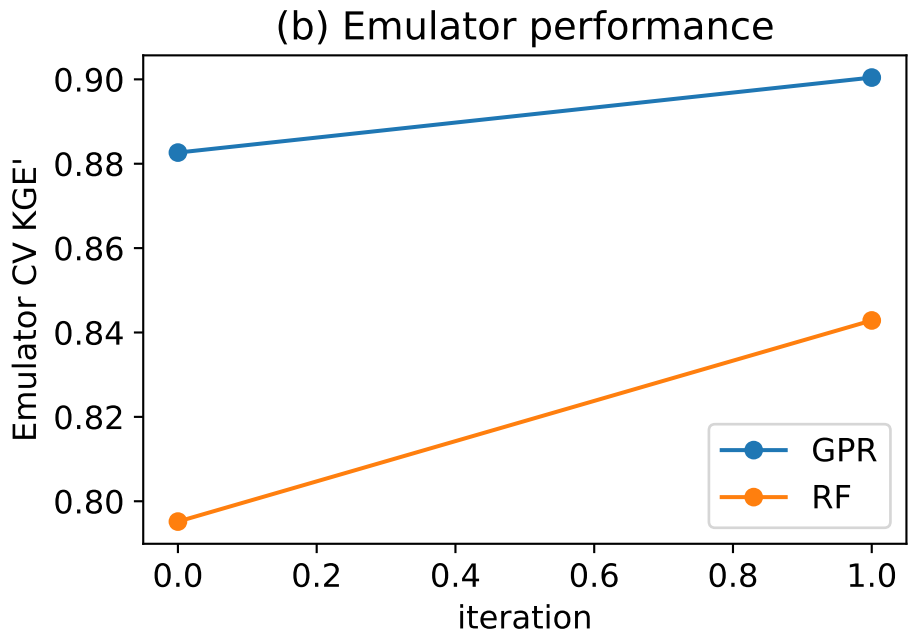


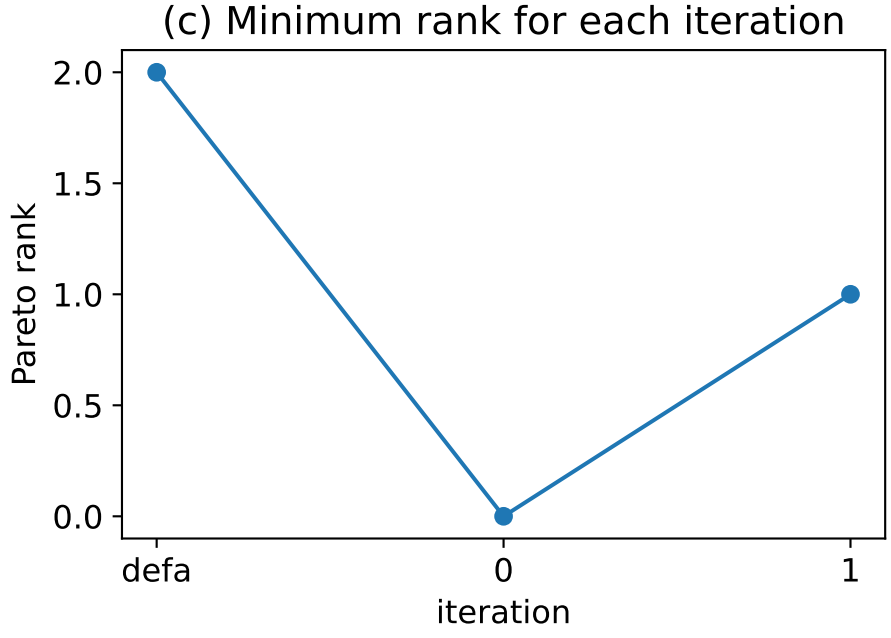




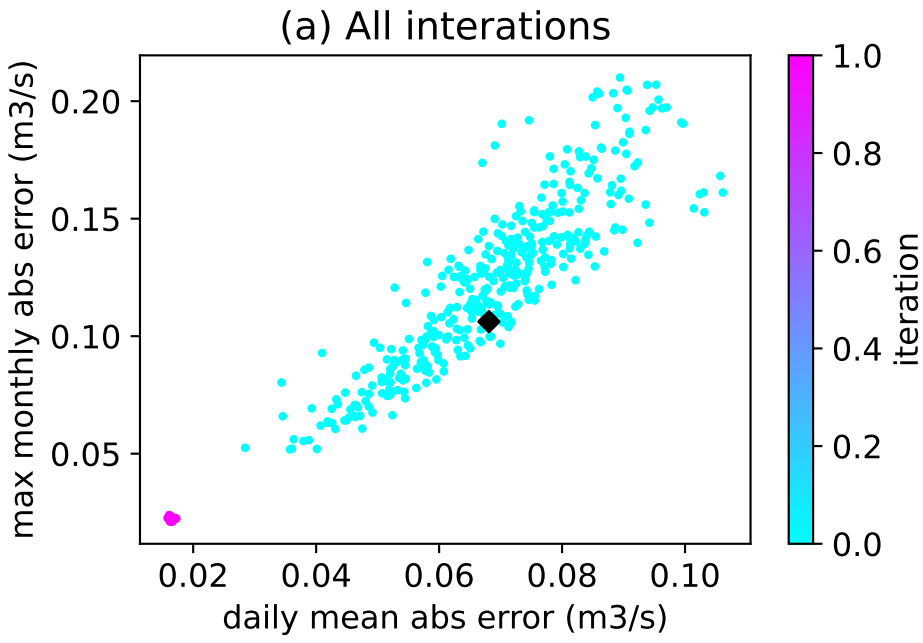
basinid: 502
hru_id: 10336645
lat_cen: 39.02197
lon_cen: -120.16849
AREA: 20.09 km2
elev_mean: 2216.32 m

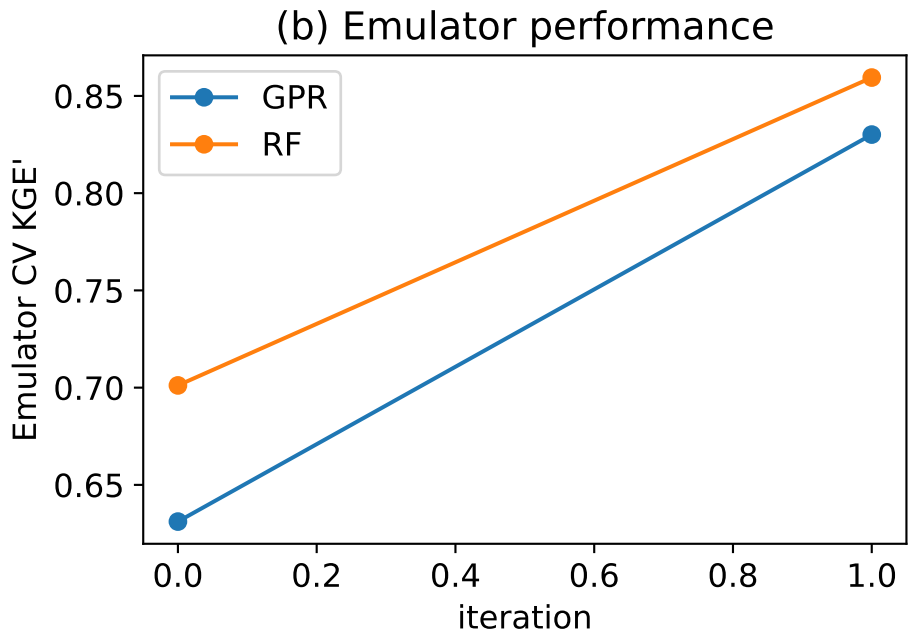


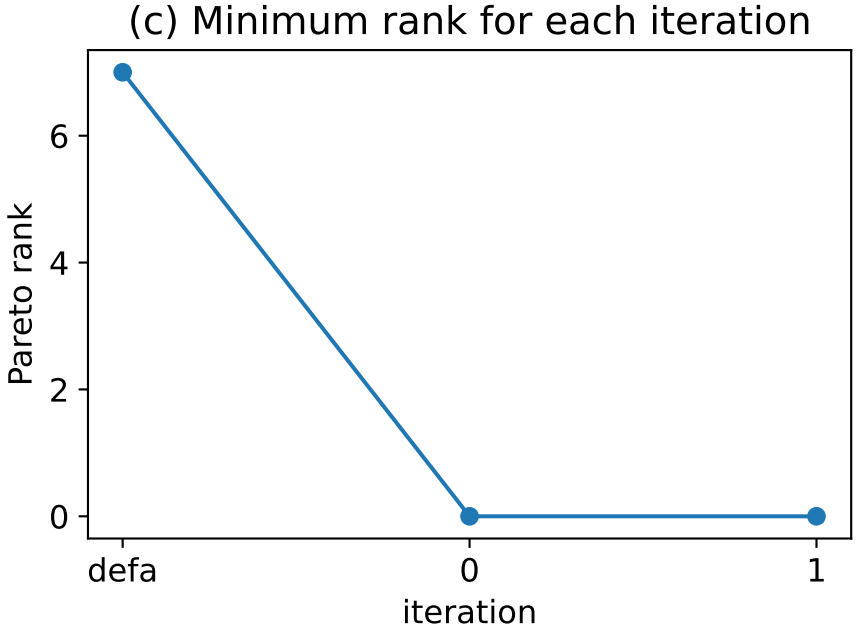




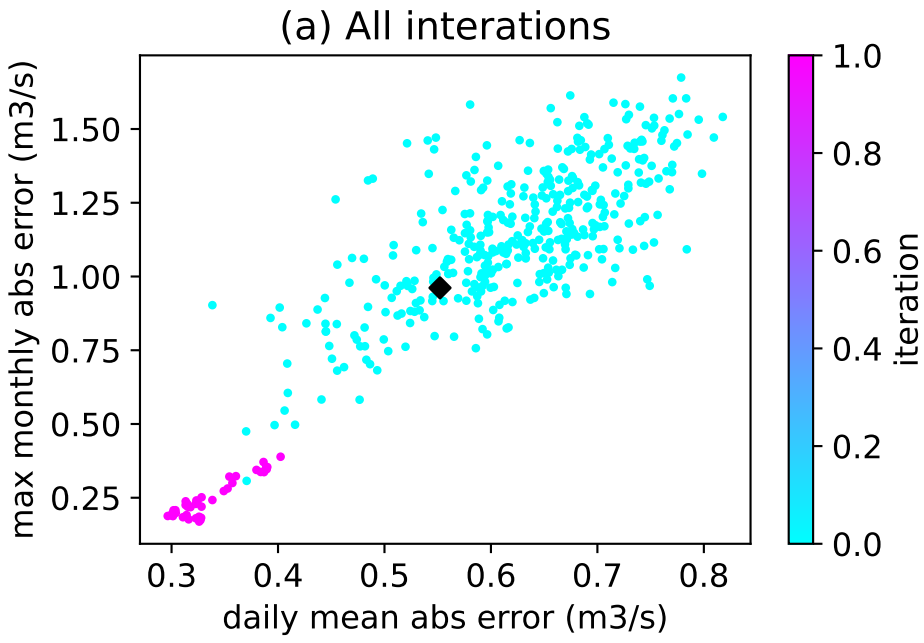
basinid: 503
hru_id: 10336660
lat_cen: 39.09663
lon_cen: -120.20516
AREA: 32.46 km2
elev_mean: 2216.90 m

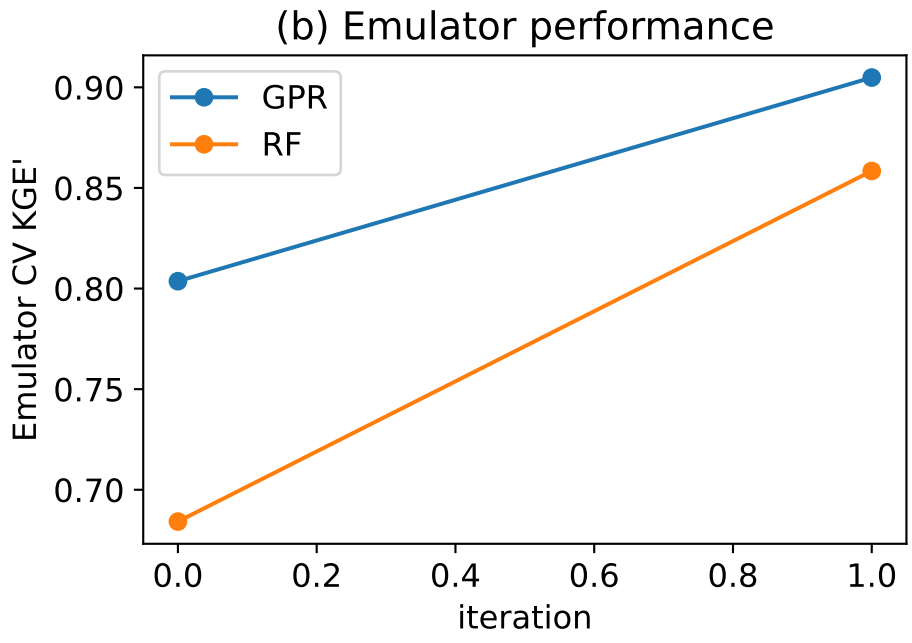


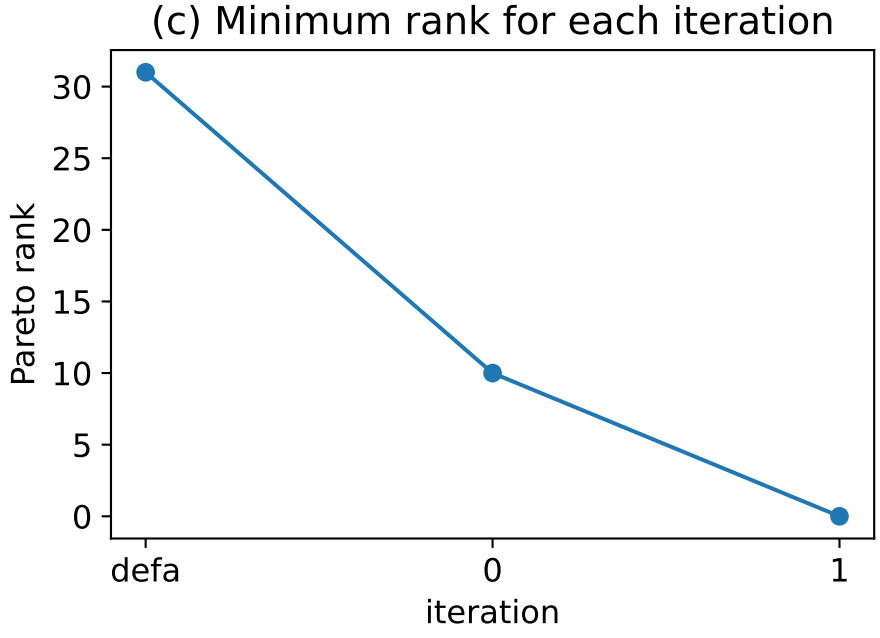




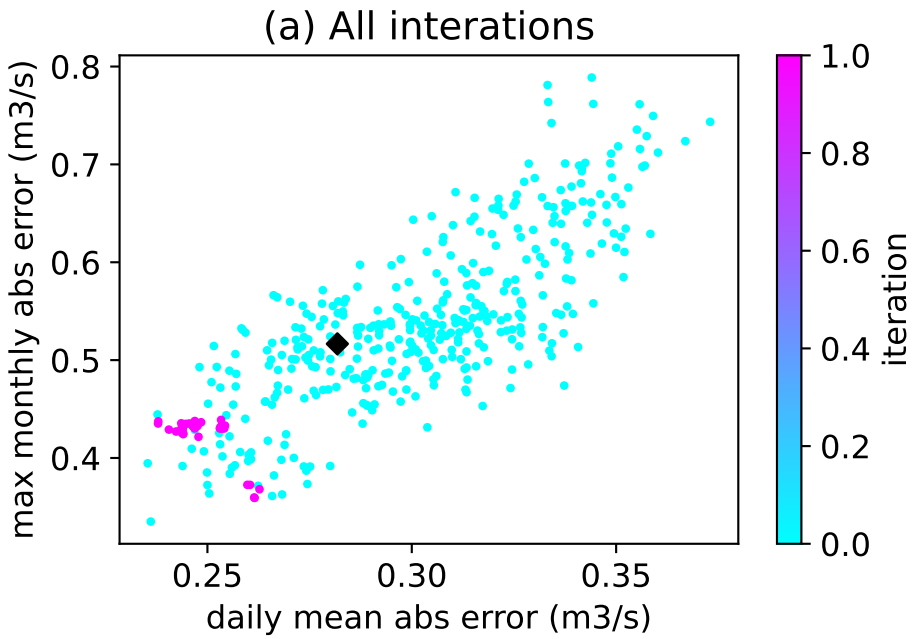
basinid: 504
hru_id: 10336740
lat_cen: 39.05474
lon_cen: -119.91651
AREA: 7.94 km2
elev_mean: 2301.88 m

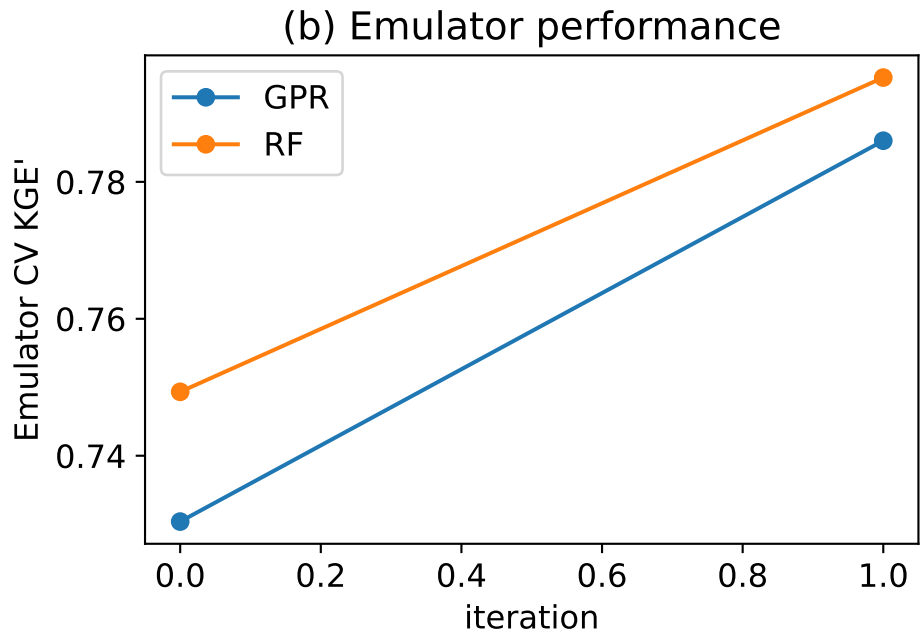


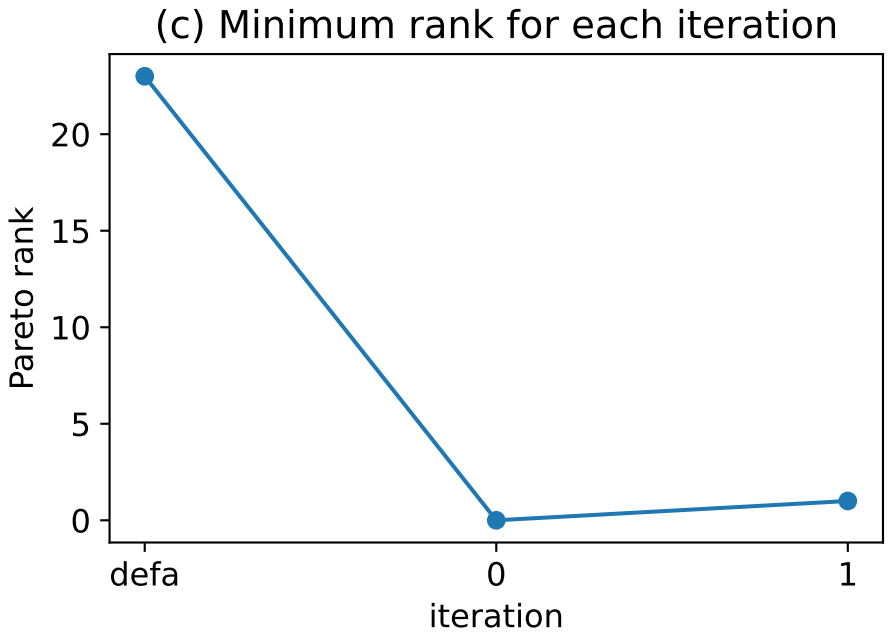




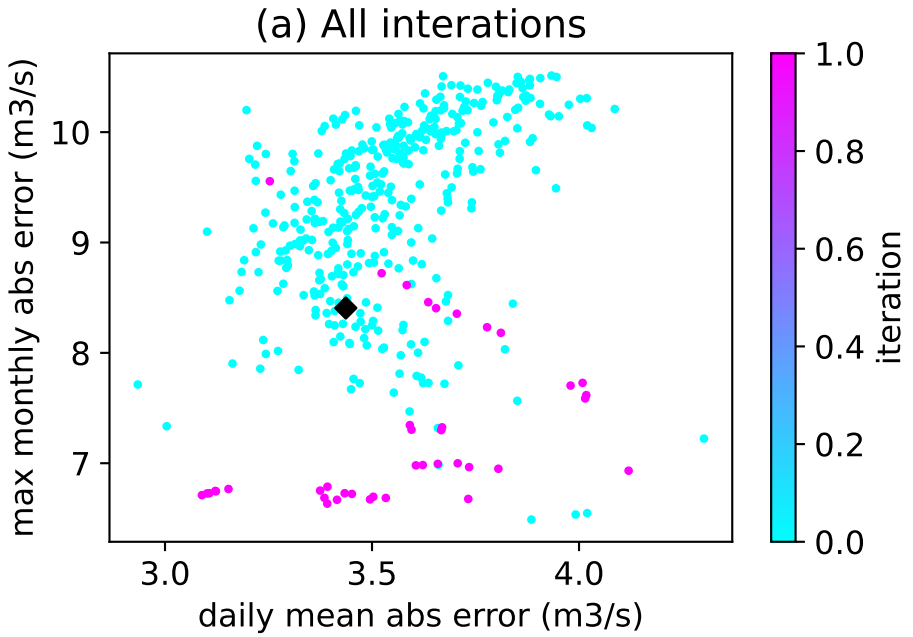
basinid: 505
hru_id: 10343500
lat_cen: 39.42957
lon_cen: -120.27148
AREA: 27.34 km2
elev_mean: 2188.48 m

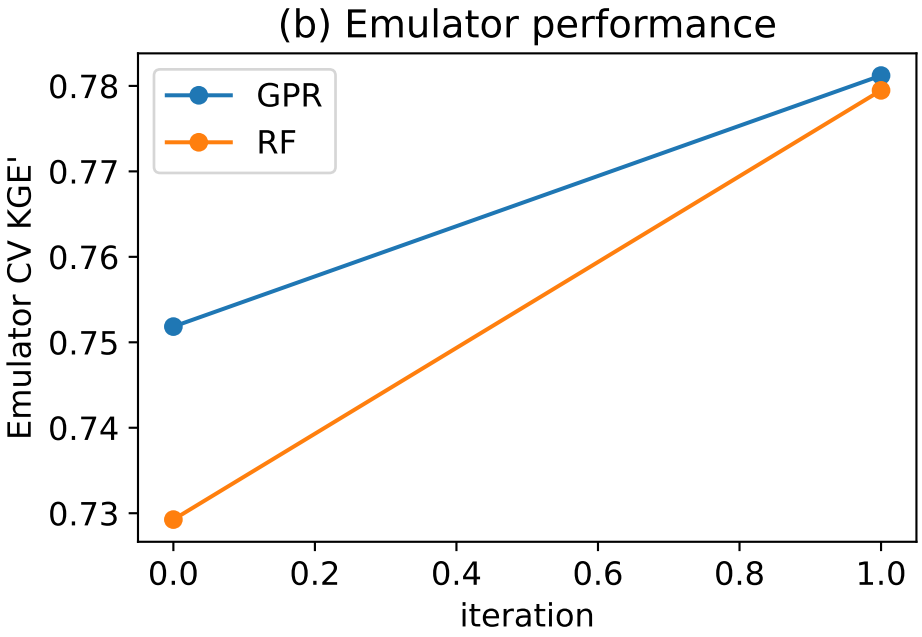


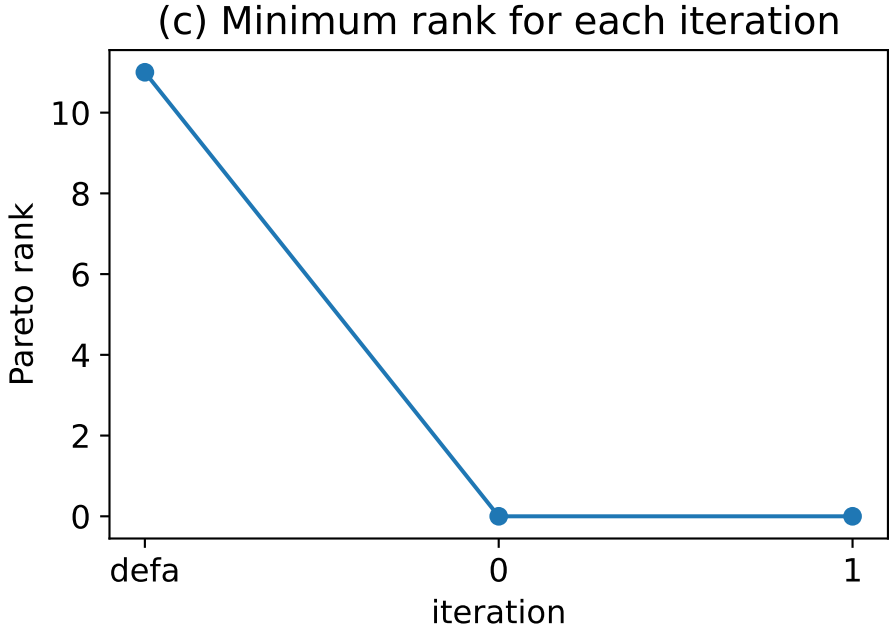




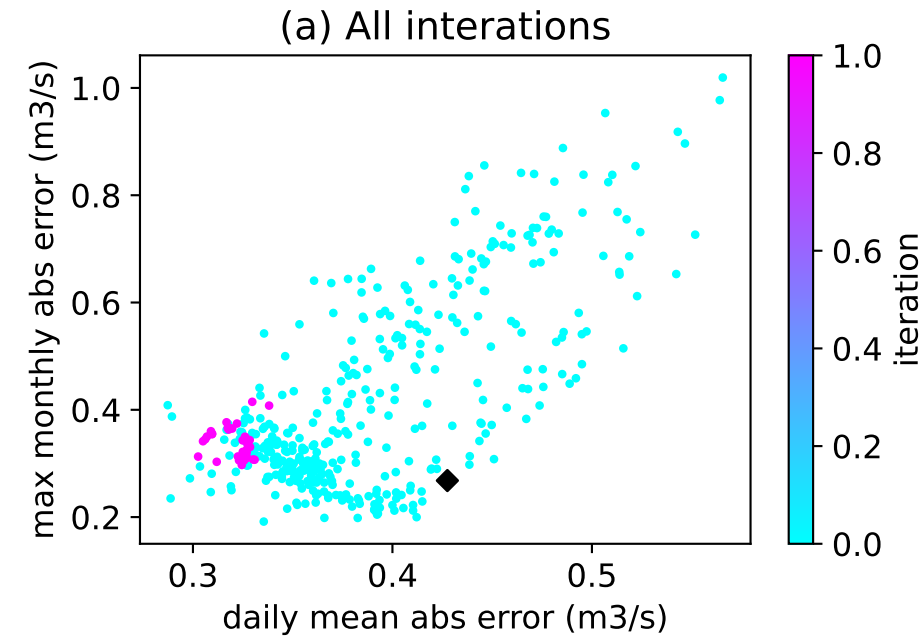
basinid: 506
hru_id: 10348850
lat_cen: 39.33875
lon_cen: -119.89175
AREA: 22.37 km2
elev_mean: 2539.64 m

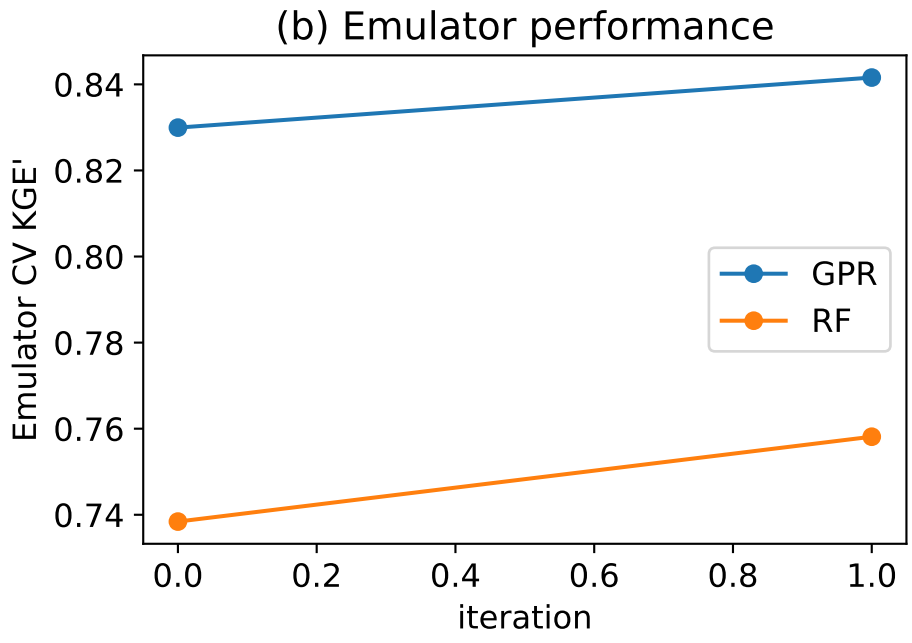


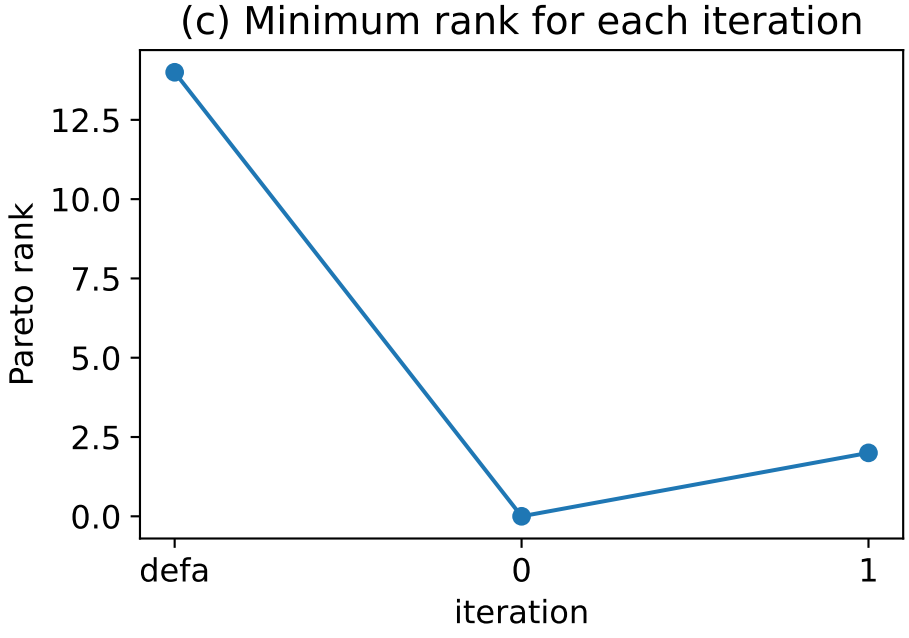




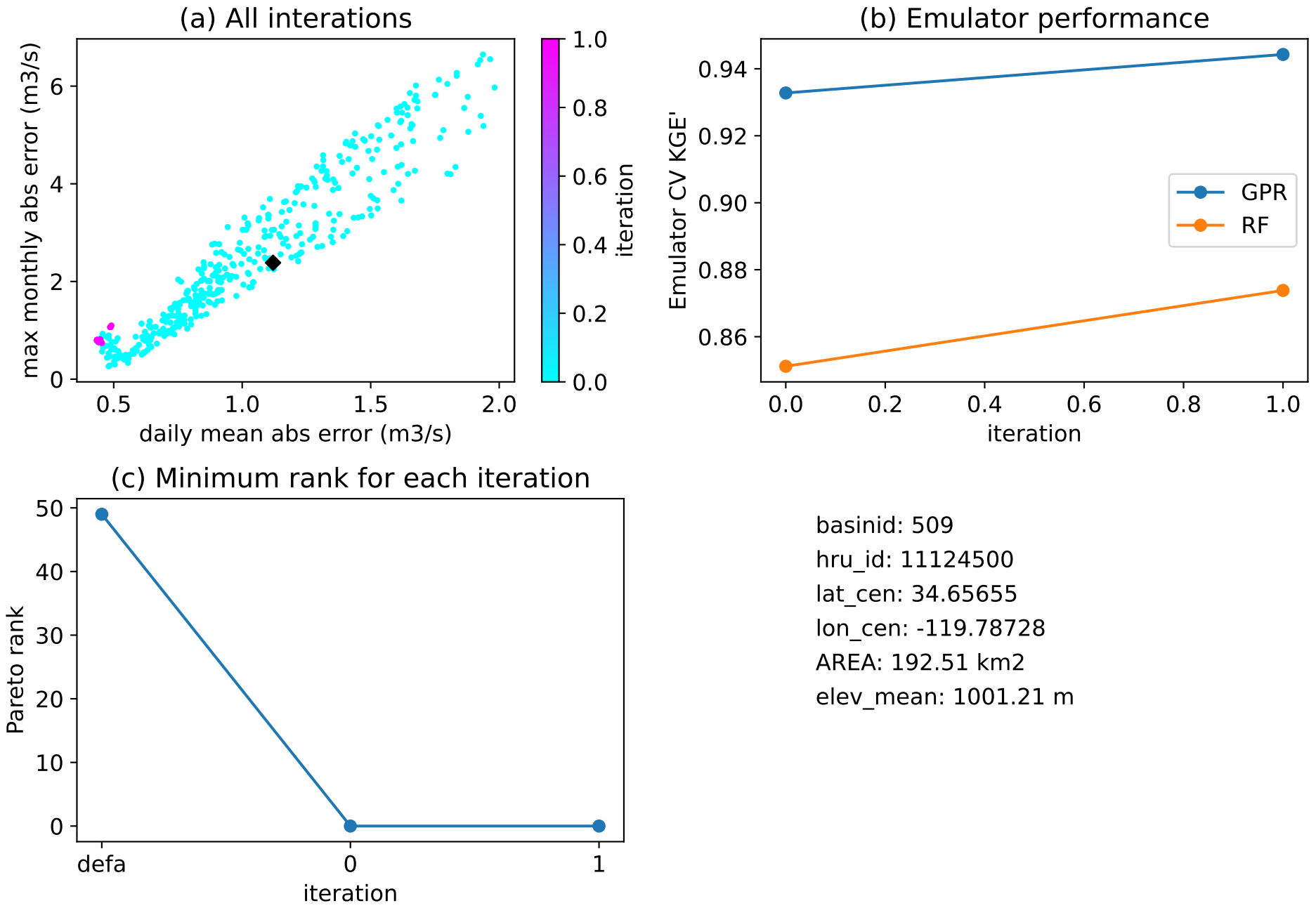
basinid: 507
hru_id: 10396000
lat_cen: 42.64567
lon_cen: -118.73118
AREA: 969.59 km2
elev_mean: 1815.58 m

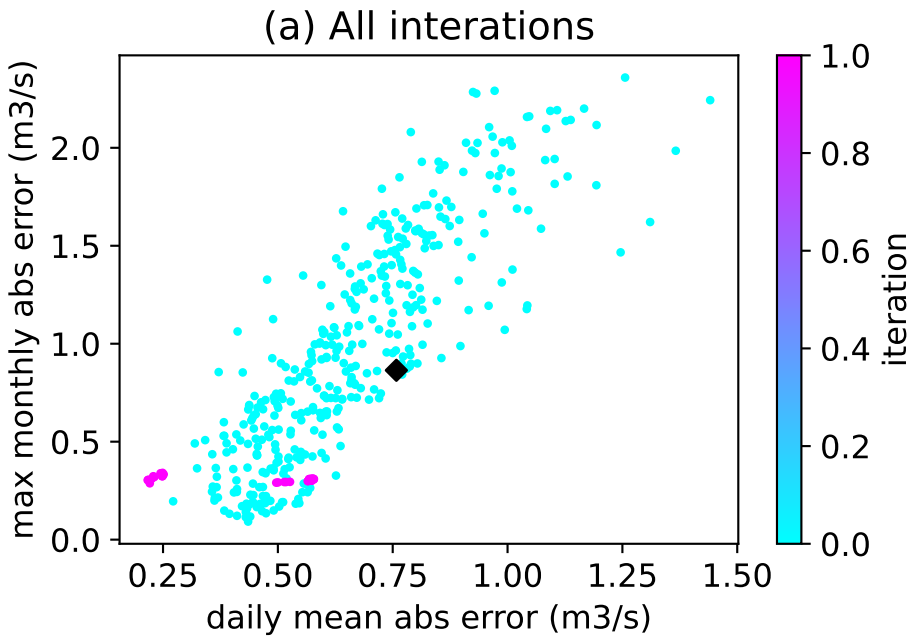


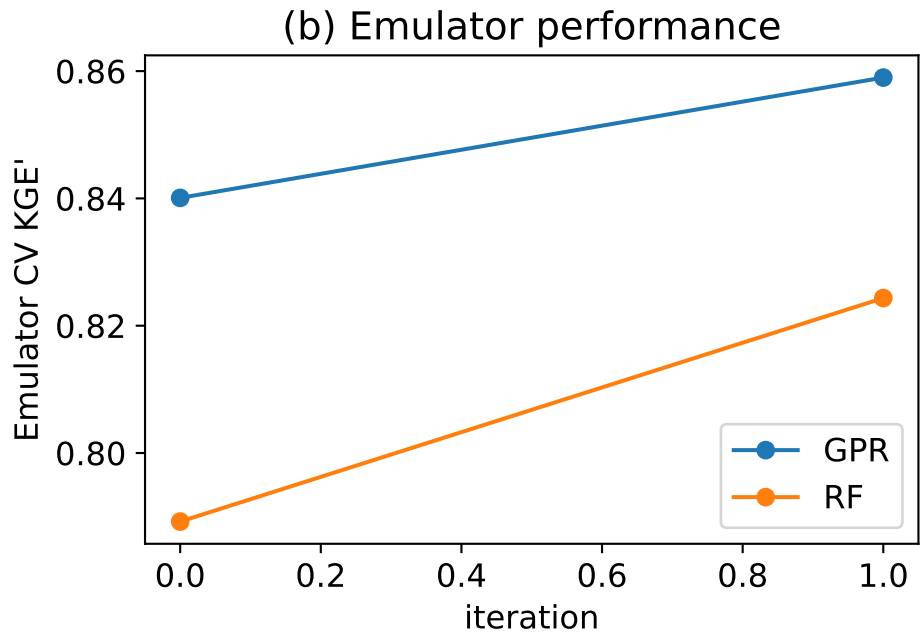


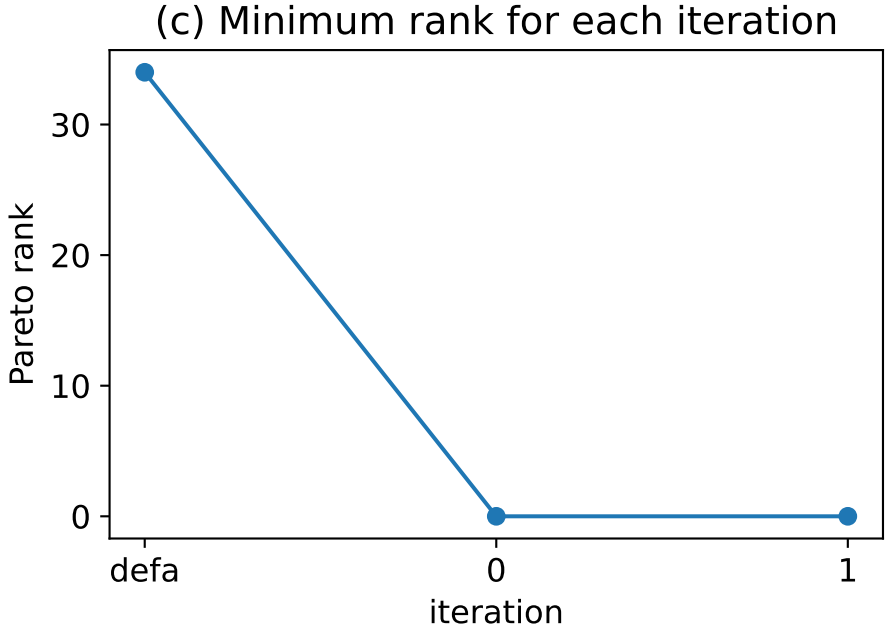


basinid: 508
hru_id: 11098000
lat_cen: 34.25045
lon_cen: -118.14938
AREA: 46.67 km2
elev_mean: 1066.28 m

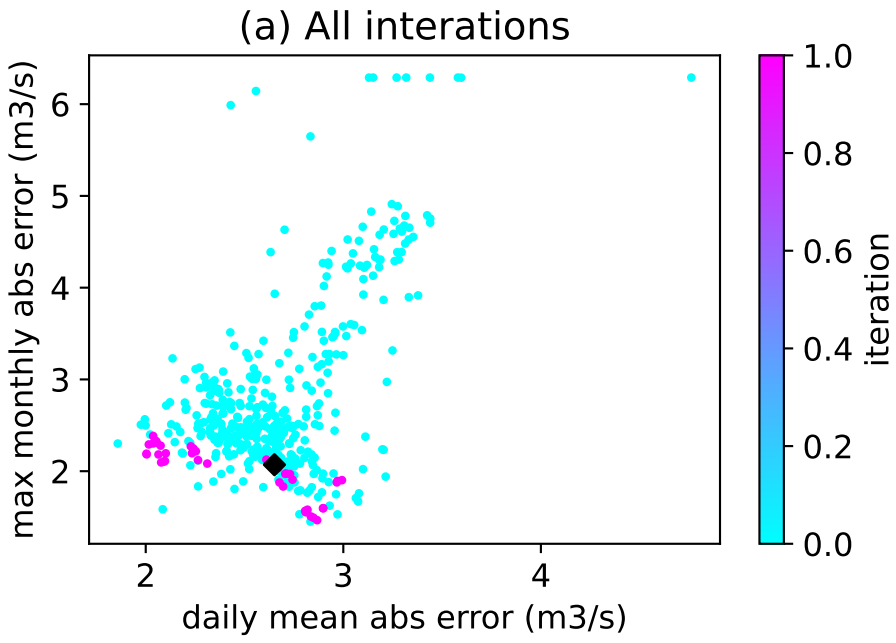

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 509
hru_id: 11124500
lat_cen: 34.65655
lon_cen: -119.78728
AREA: 192.51 km2
elev_mean: 1001.21 m

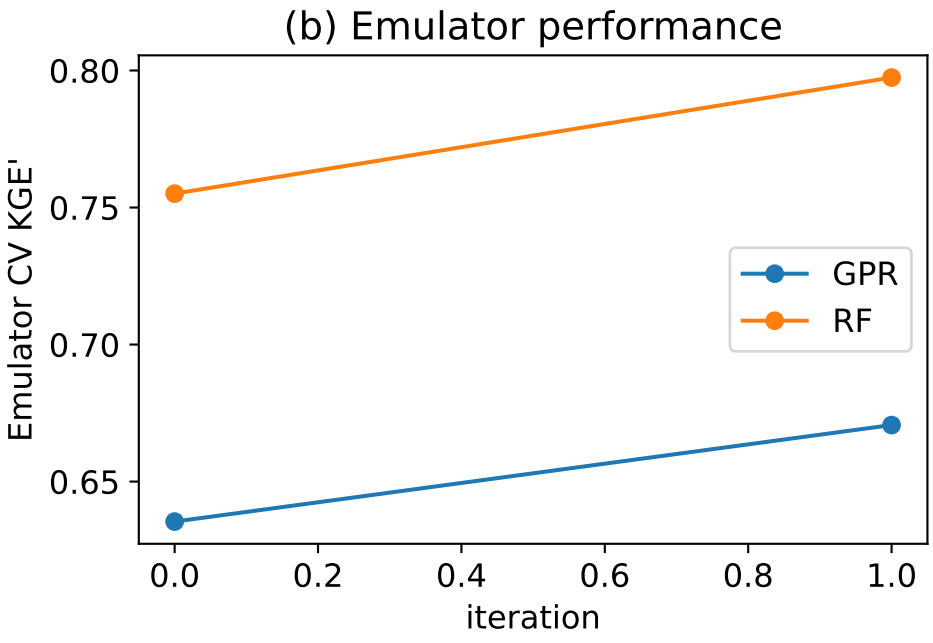


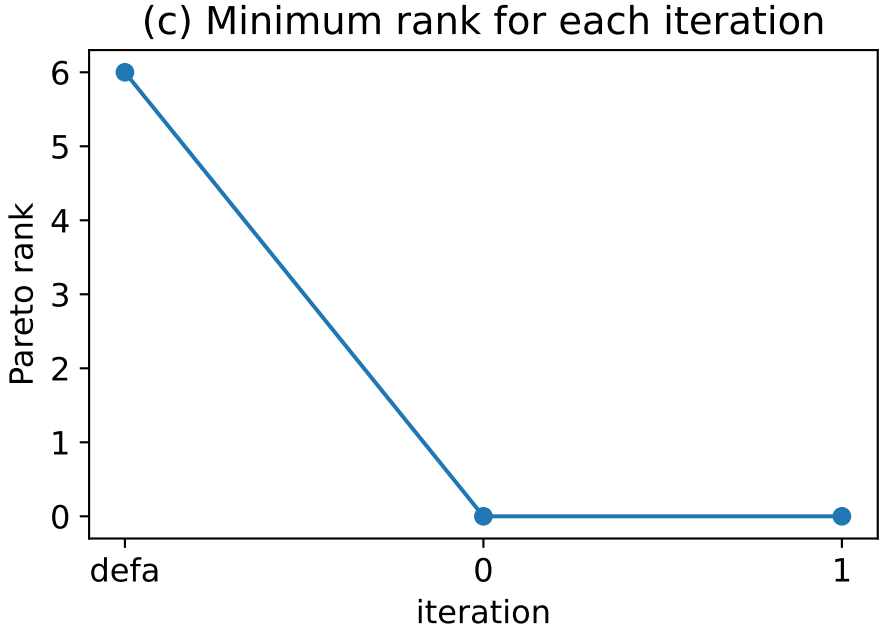




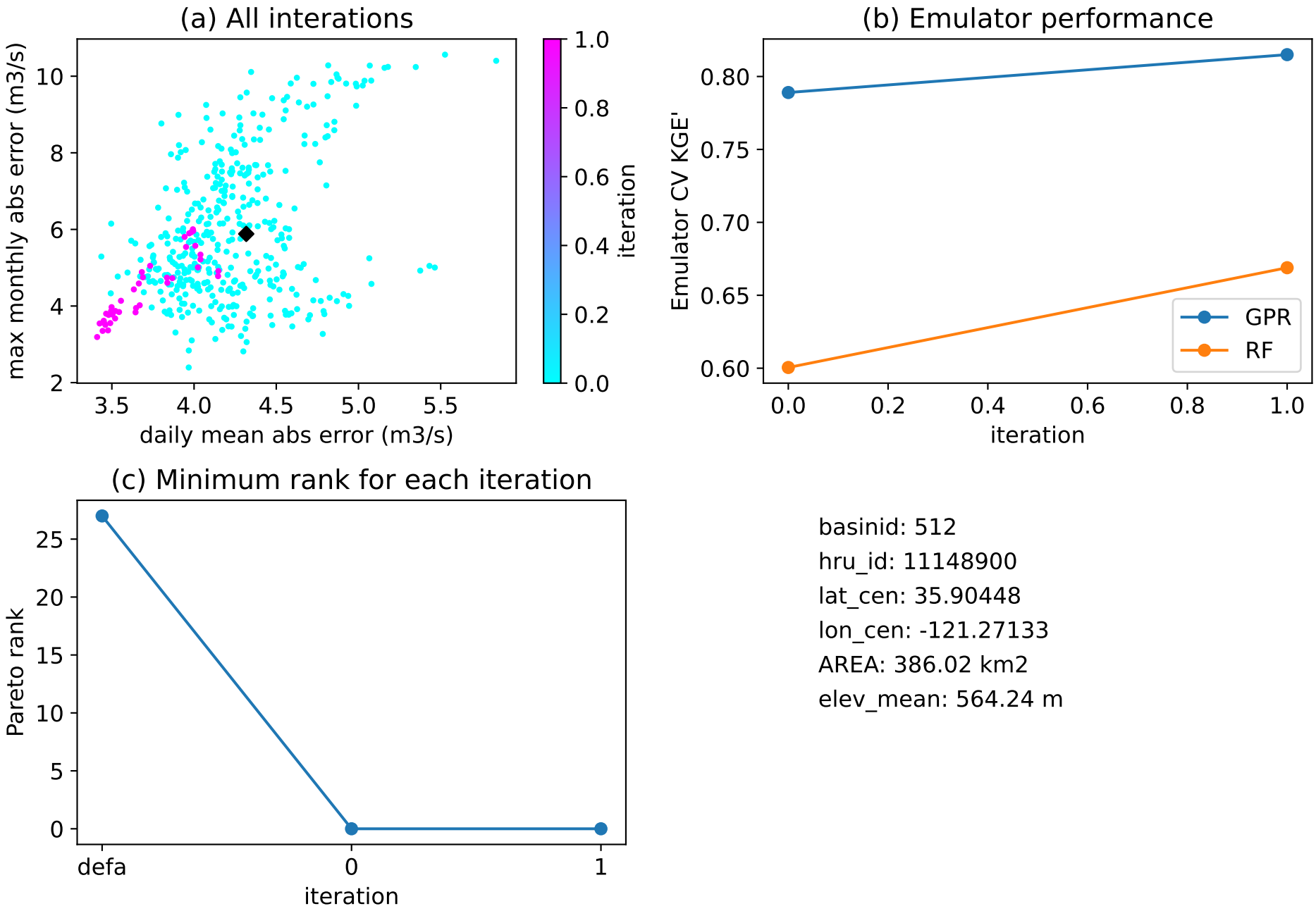
basinid: 510
hru_id: 11141280
lat_cen: 35.27825
lon_cen: -120.52704
AREA: 56.05 km2
elev_mean: 562.46 m

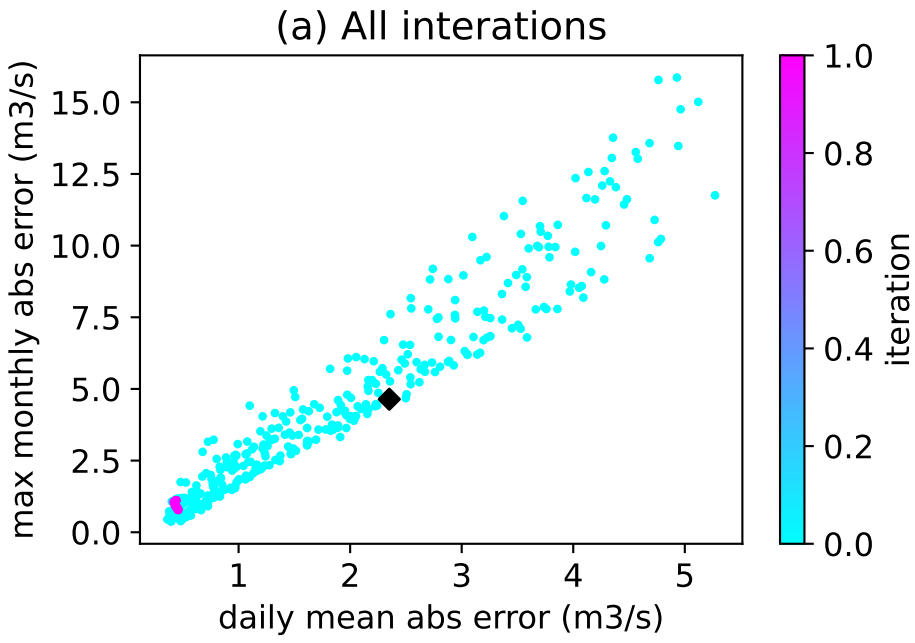


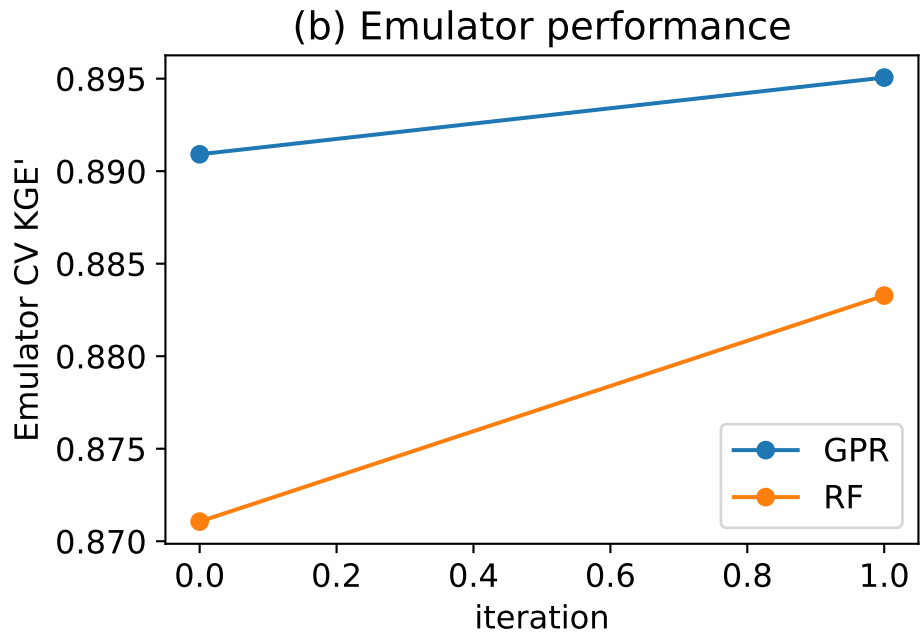


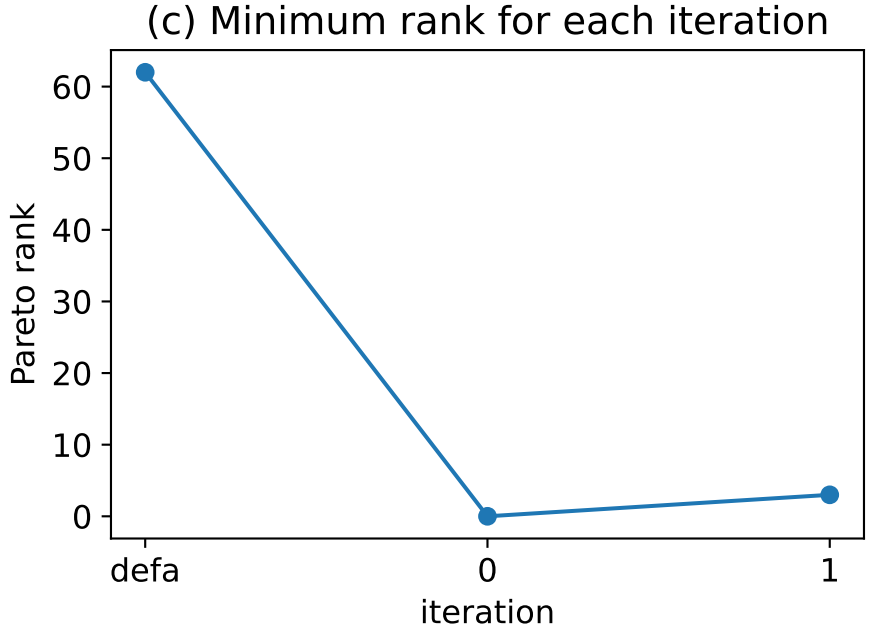


basinid: 511
hru_id: 11143000
lat_cen: 36.24347
lon_cen: -121.68131
AREA: 121.32 km2
elev_mean: 770.22 m

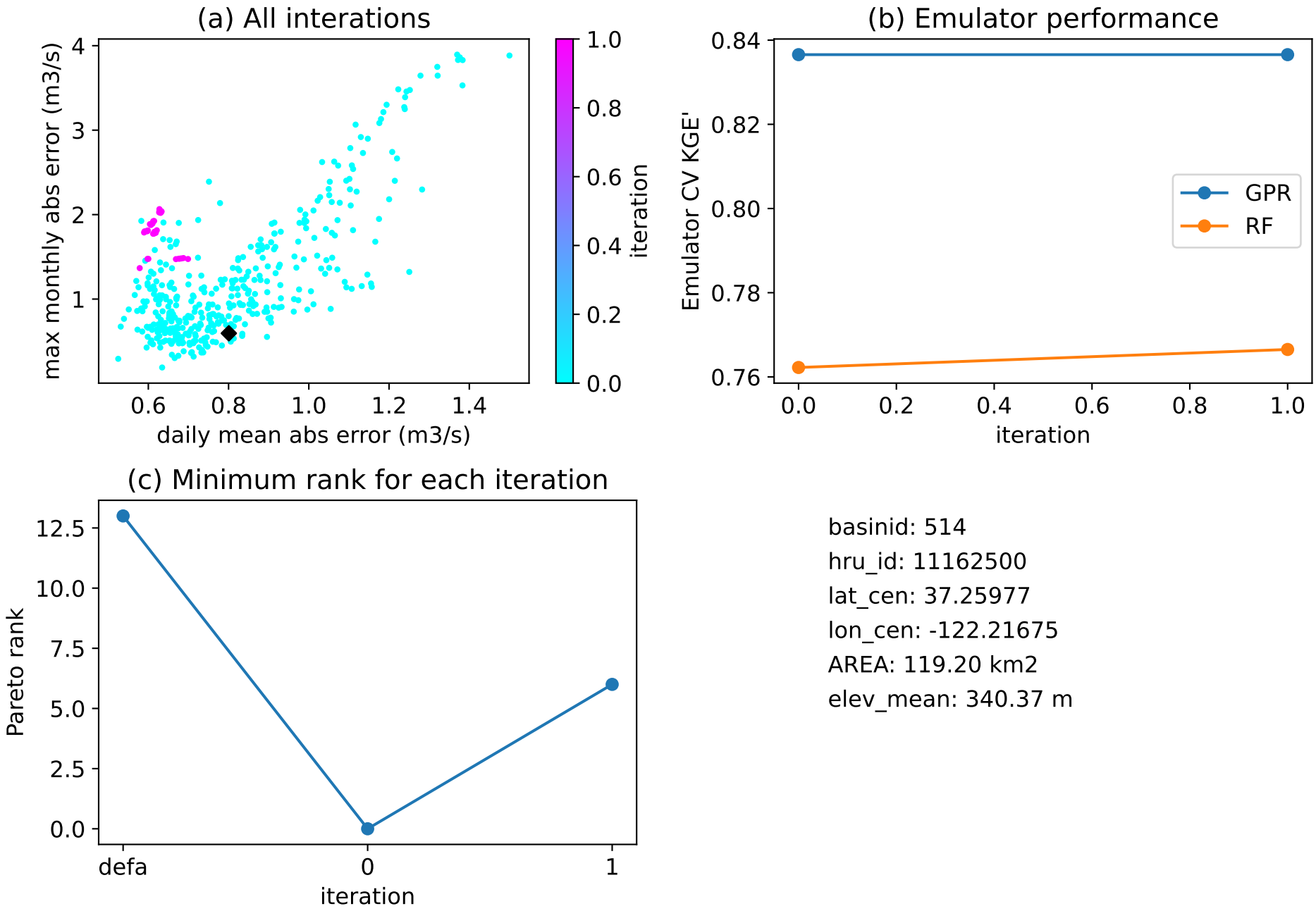

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 512
hru_id: 11148900
lat_cen: 35.90448
lon_cen: -121.27133
AREA: 386.02 km2
elev_mean: 564.24 m

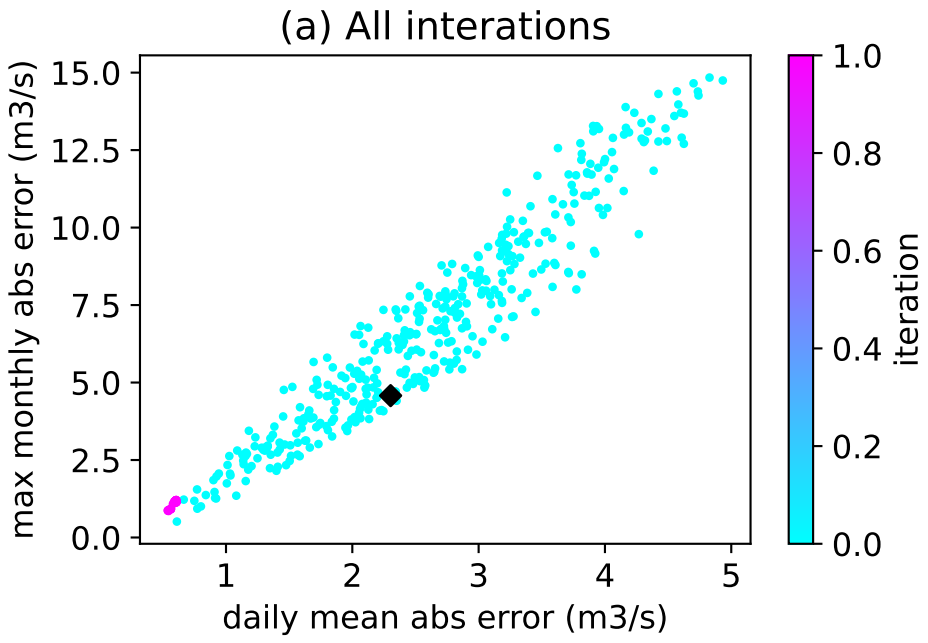


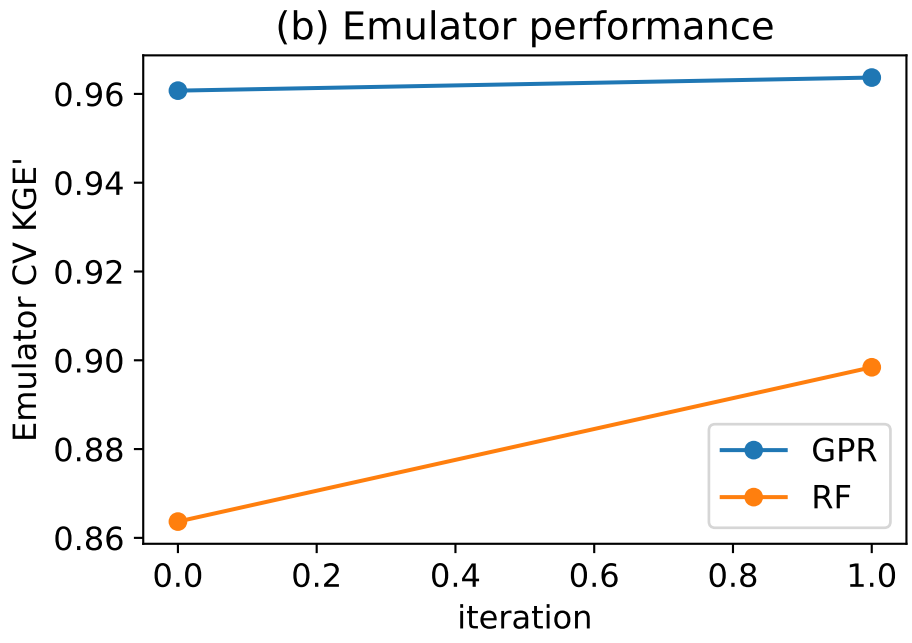


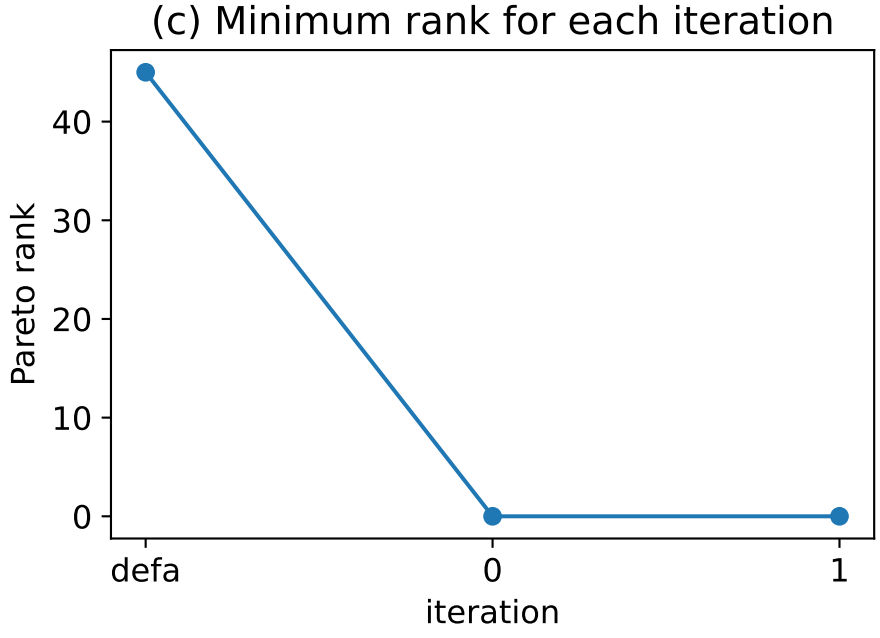


basinid: 513
hru_id: 11151300
lat_cen: 36.26131
lon_cen: -120.8604
AREA: 648.42 km2
elev_mean: 608.74 m

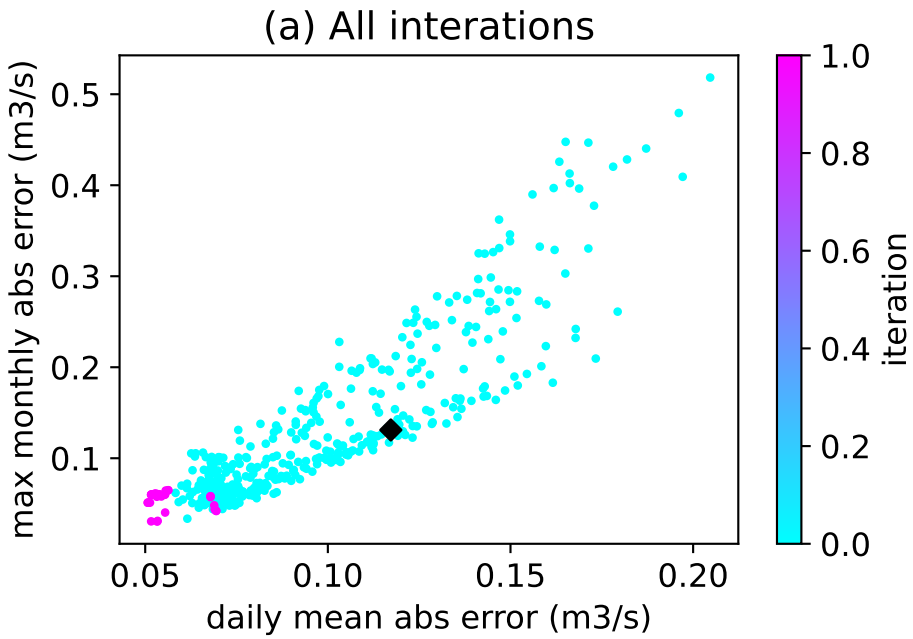

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 514
hru_id: 11162500
lat_cen: 37.25977
lon_cen: -122.21675
AREA: 119.20 km2
elev_mean: 340.37 m

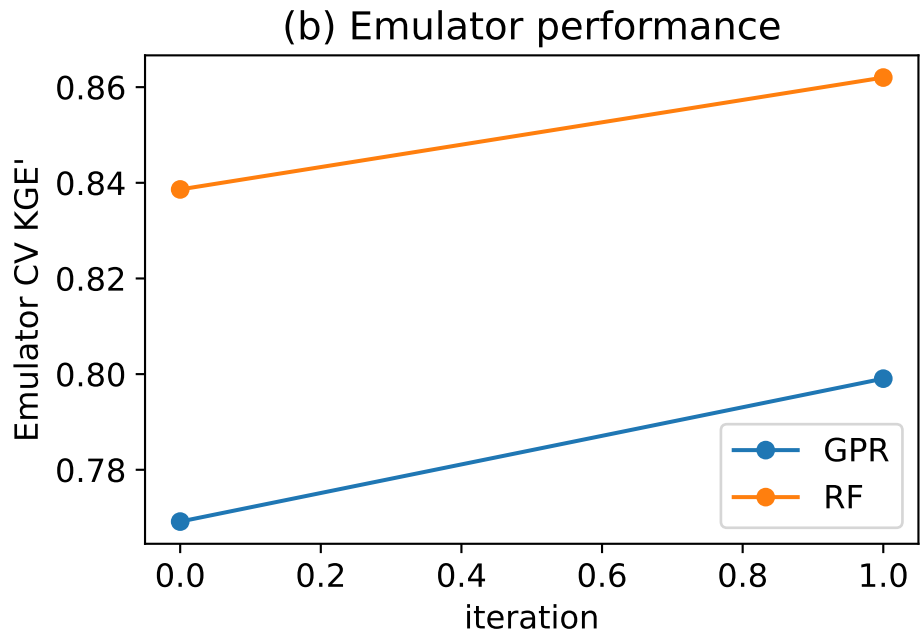


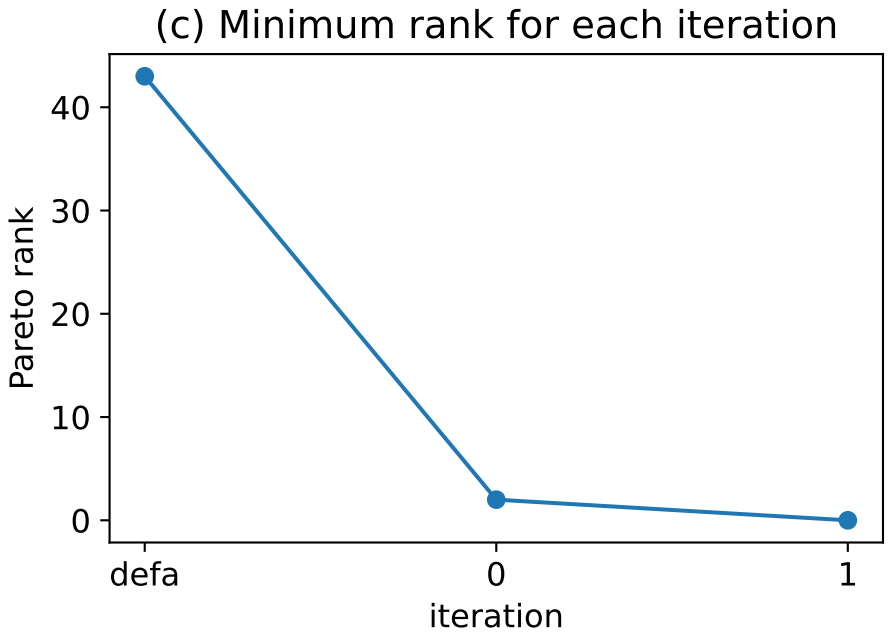




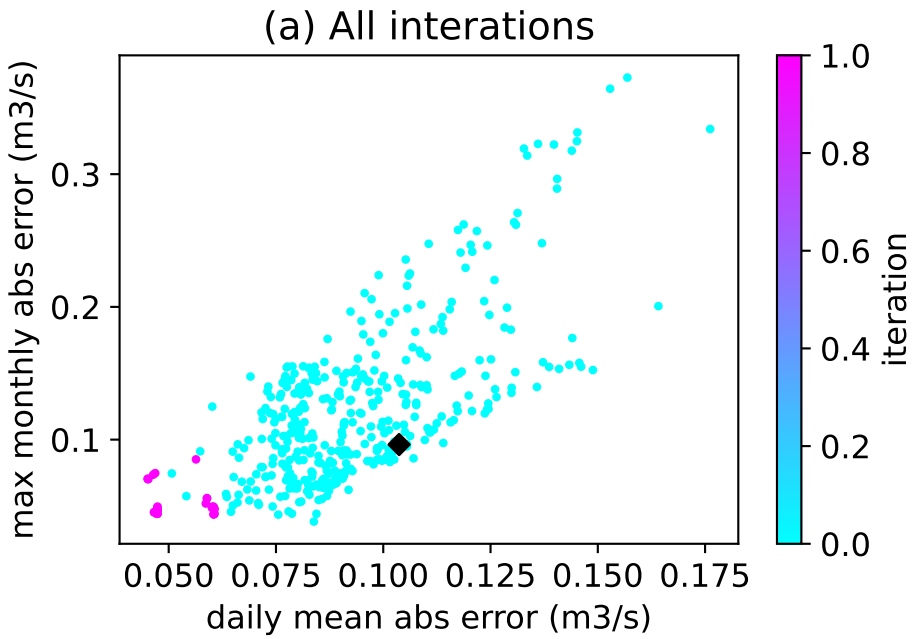
basinid: 515
hru_id: 11176400
lat_cen: 37.4268
lon_cen: -121.5492
AREA: 336.78 km2
elev_mean: 750.99 m

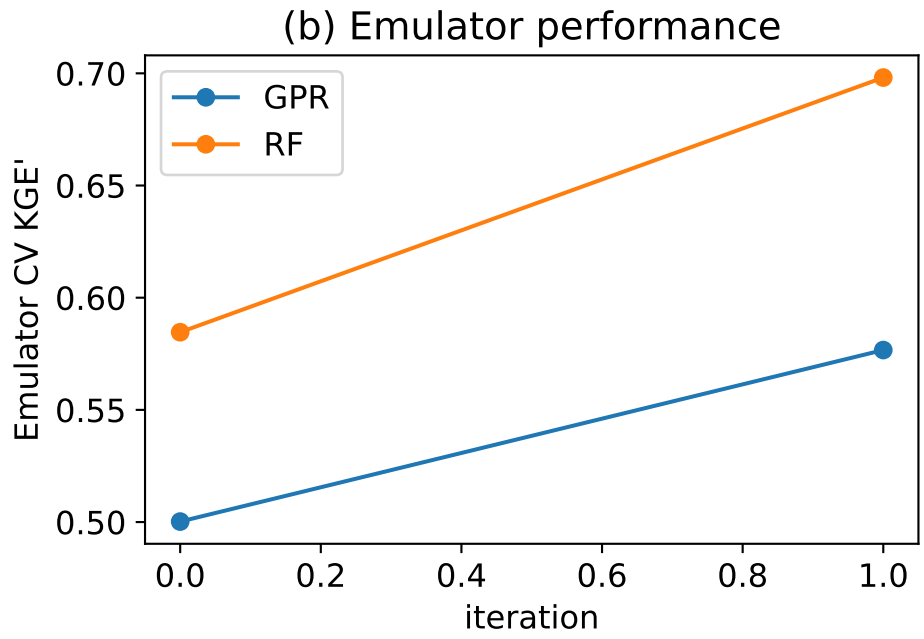


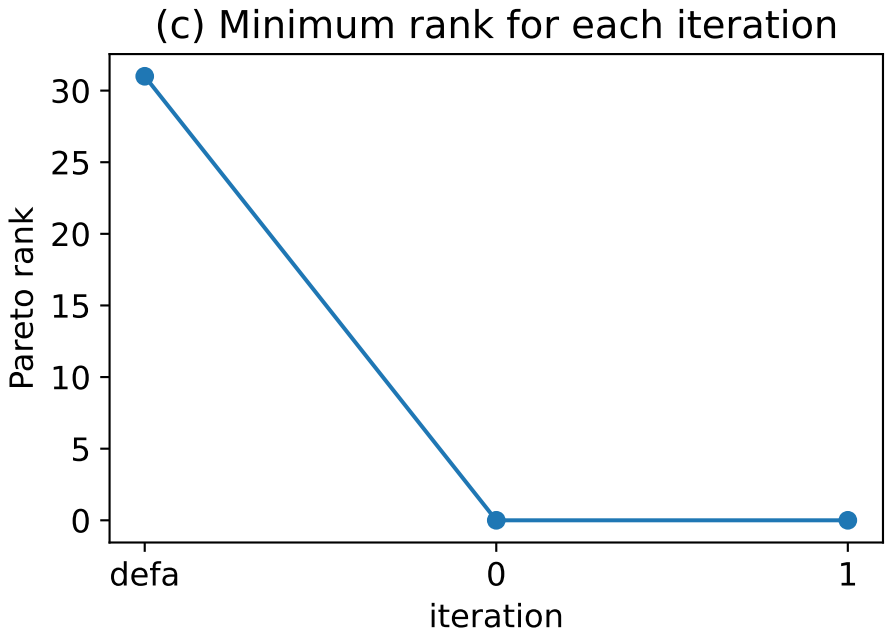




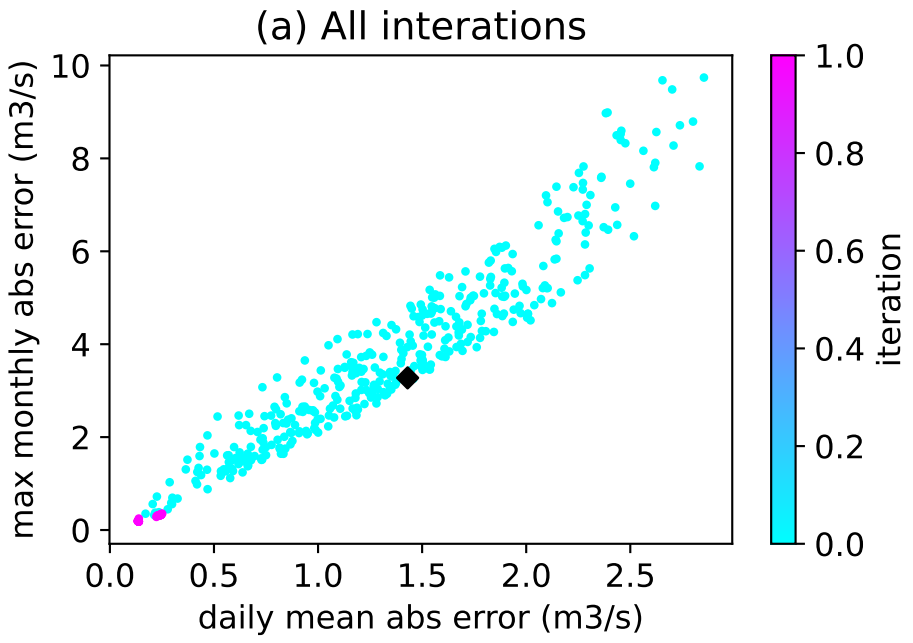
basinid: 516
hru_id: 11180500
lat_cen: 37.62082
lon_cen: -122.00207
AREA: 27.03 km2
elev_mean: 245.17 m

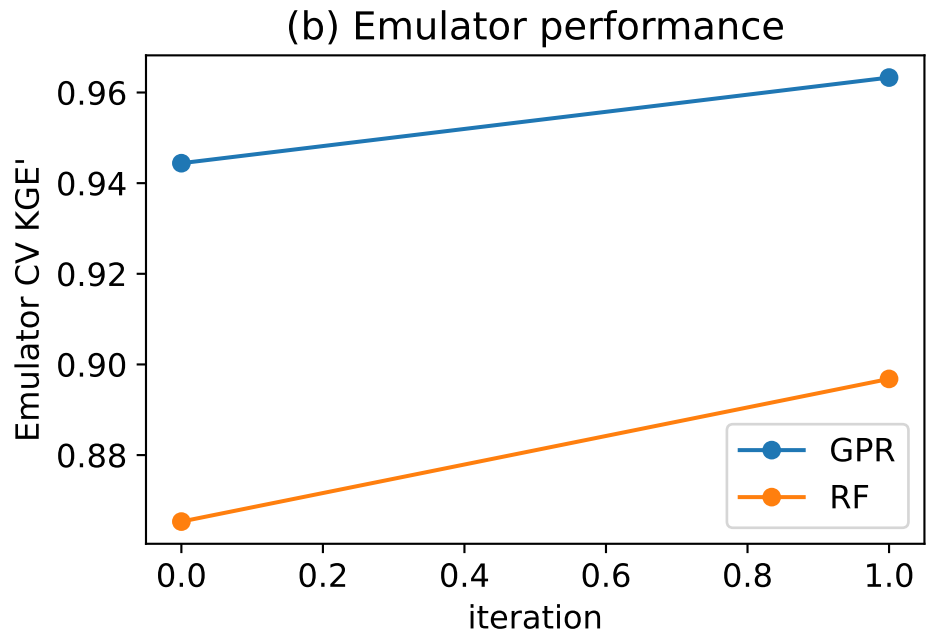


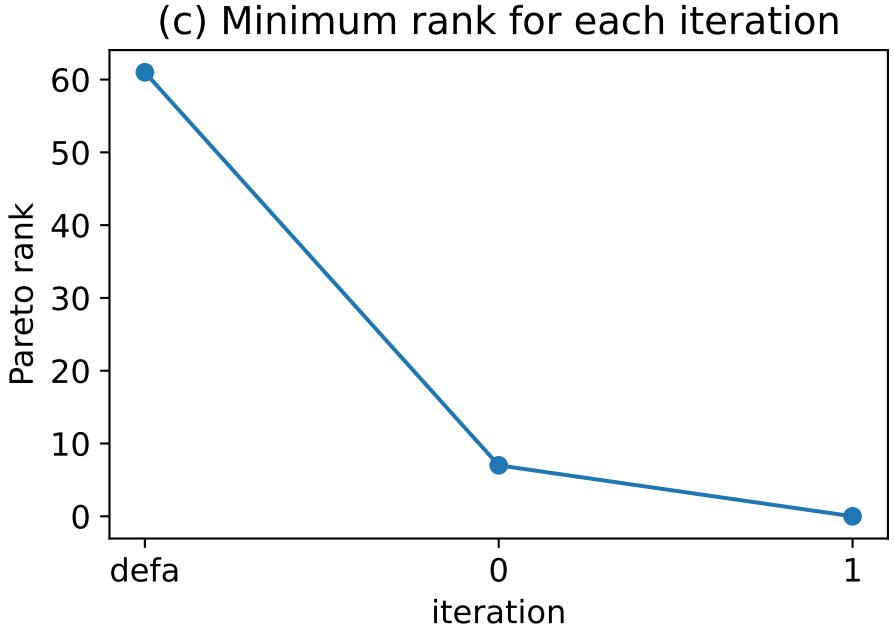




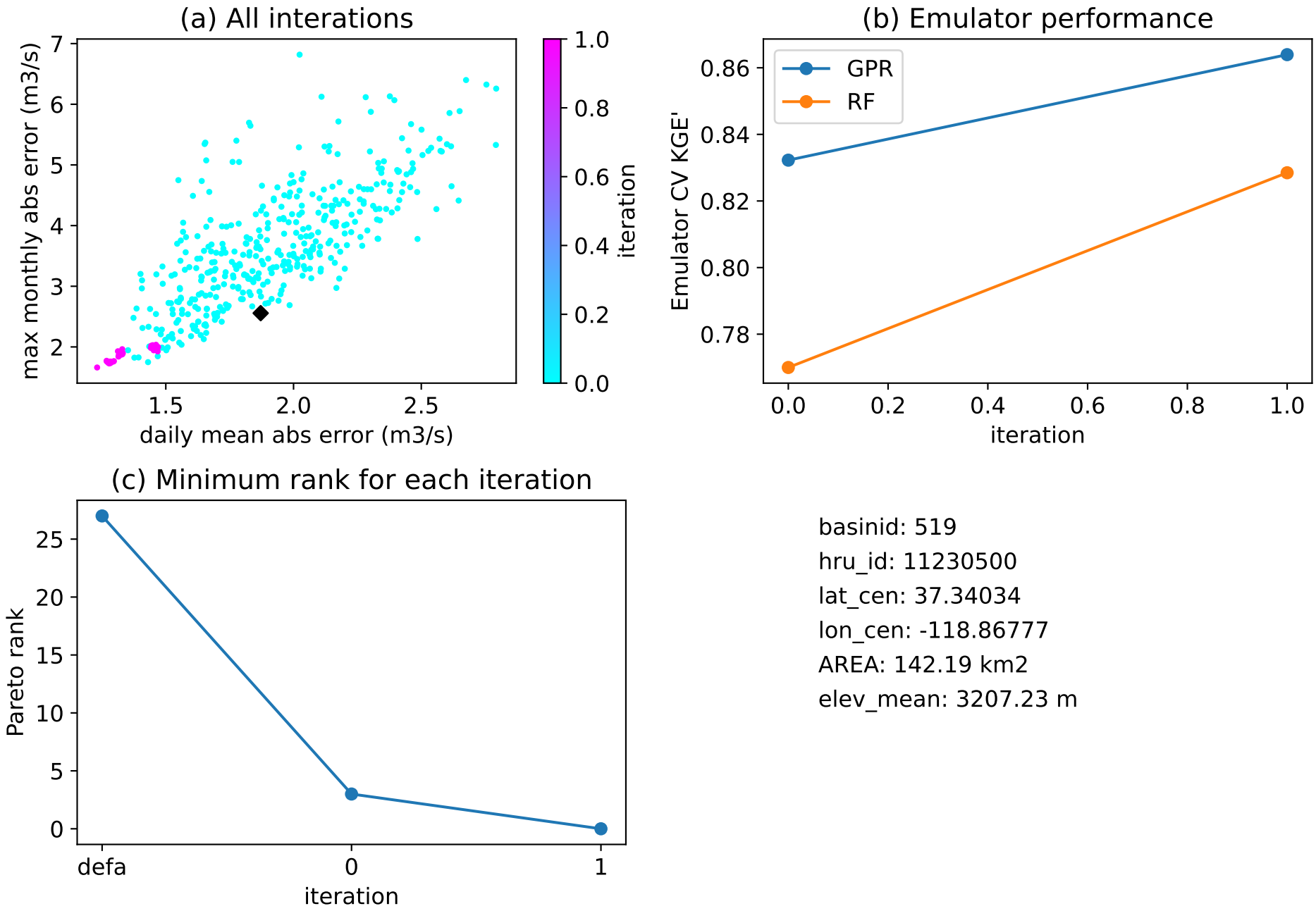
basinid: 517
hru_id: 11180960
lat_cen: 37.76372
lon_cen: -122.05706
AREA: 17.99 km2
elev_mean: 242.76 m

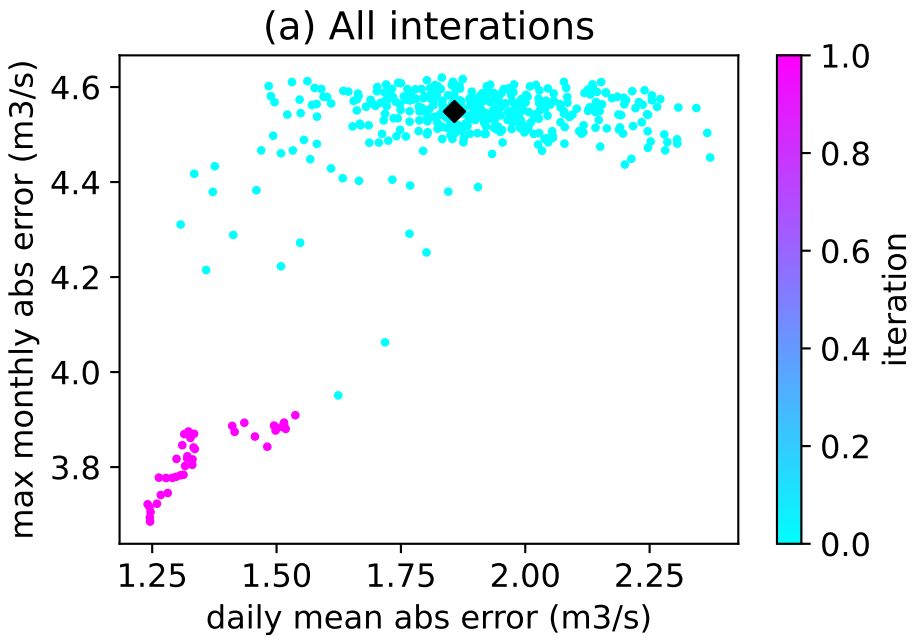


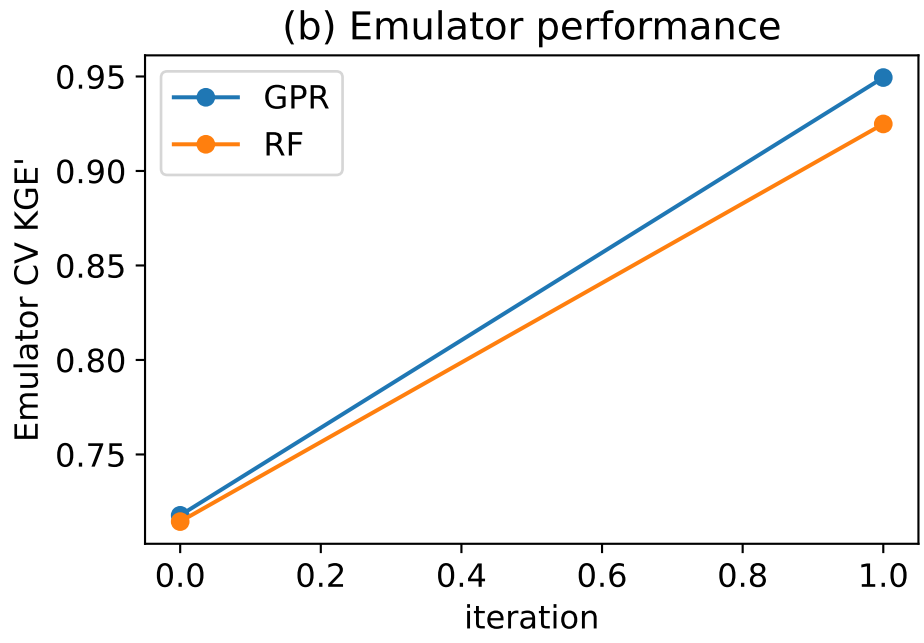


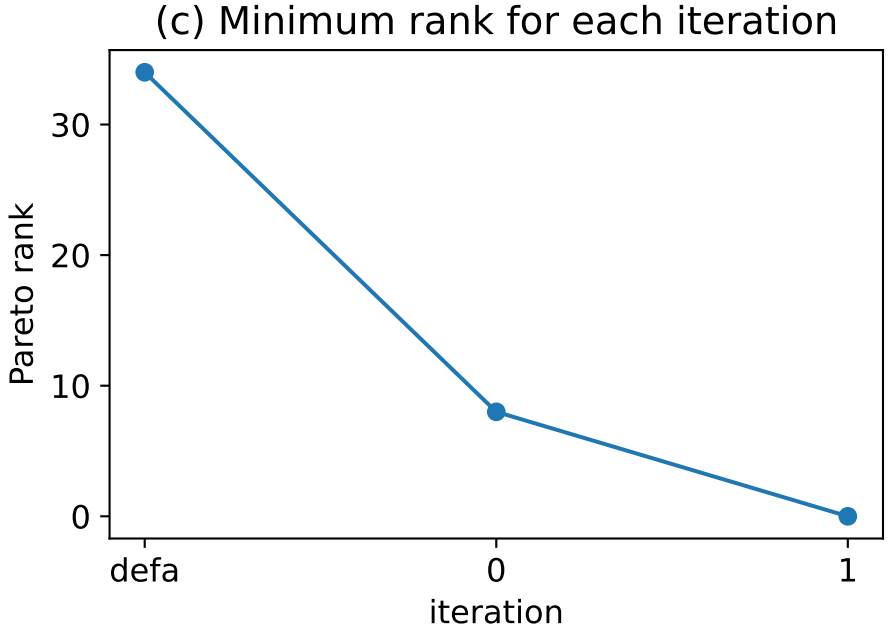


basinid: 518
hru_id: 11224500
lat_cen: 36.2753
lon_cen: -120.53071
AREA: 325.25 km2
elev_mean: 797.46 m

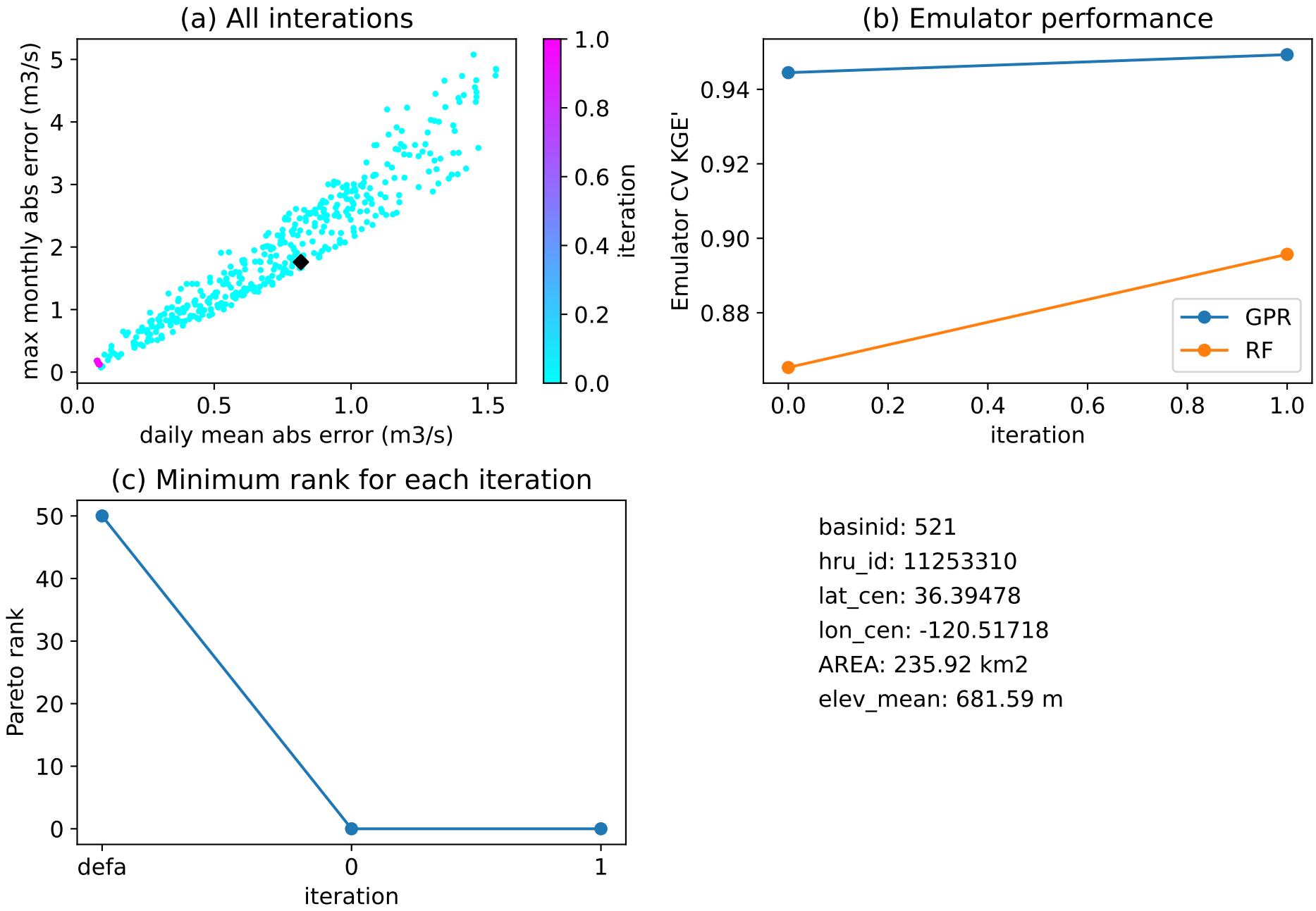

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 519
hru_id: 11230500
lat_cen: 37.34034
lon_cen: -118.86777
AREA: 142.19 km2
elev_mean: 3207.23 m

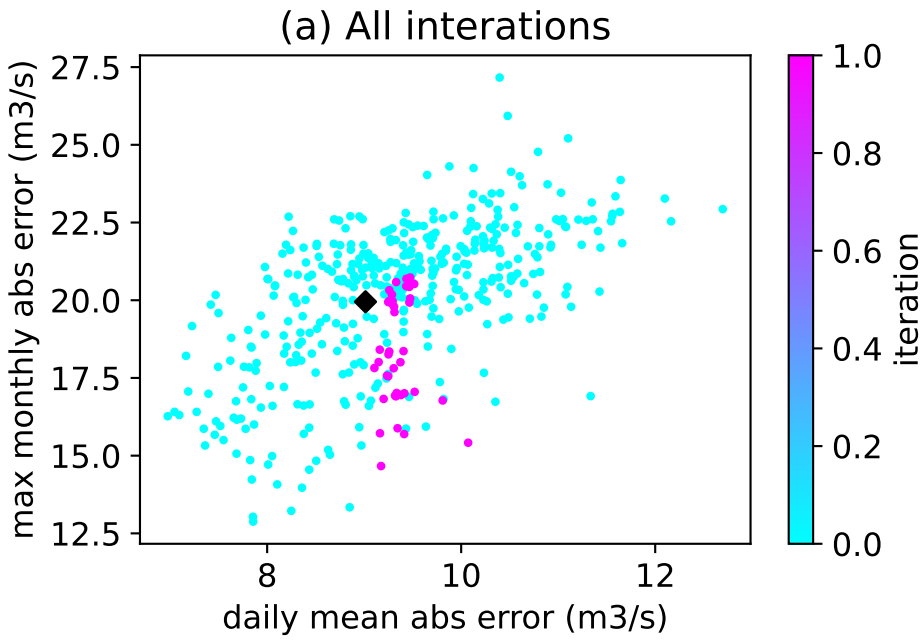


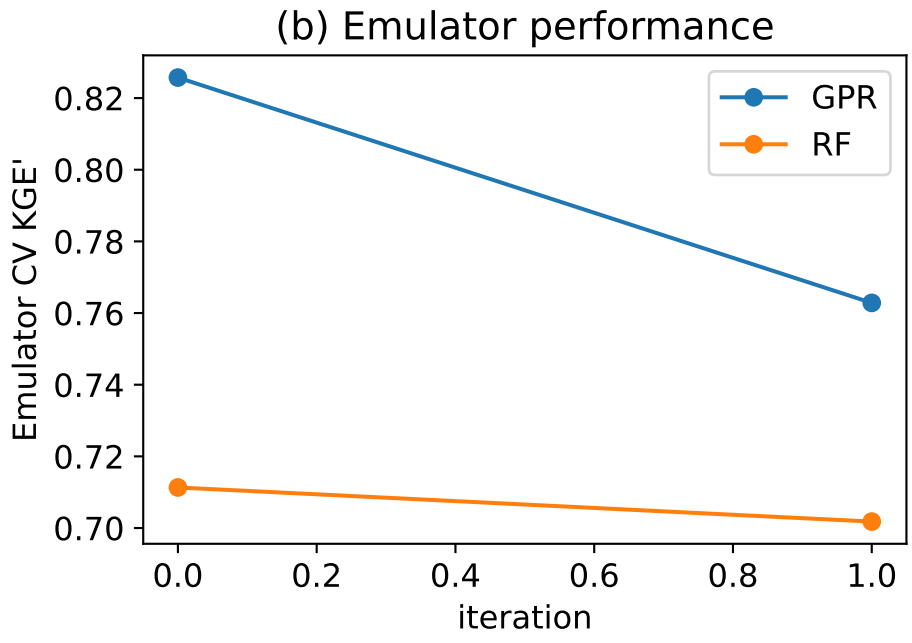


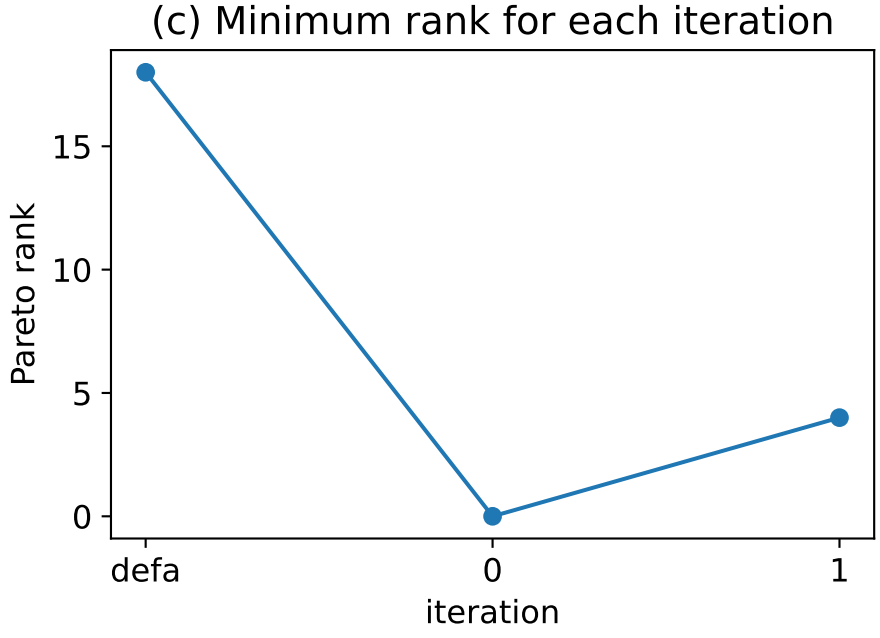


basinid: 520
hru_id: 11237500
lat_cen: 37.18005
lon_cen: -119.16989
AREA: 65.21 km2
elev_mean: 2377.53 m

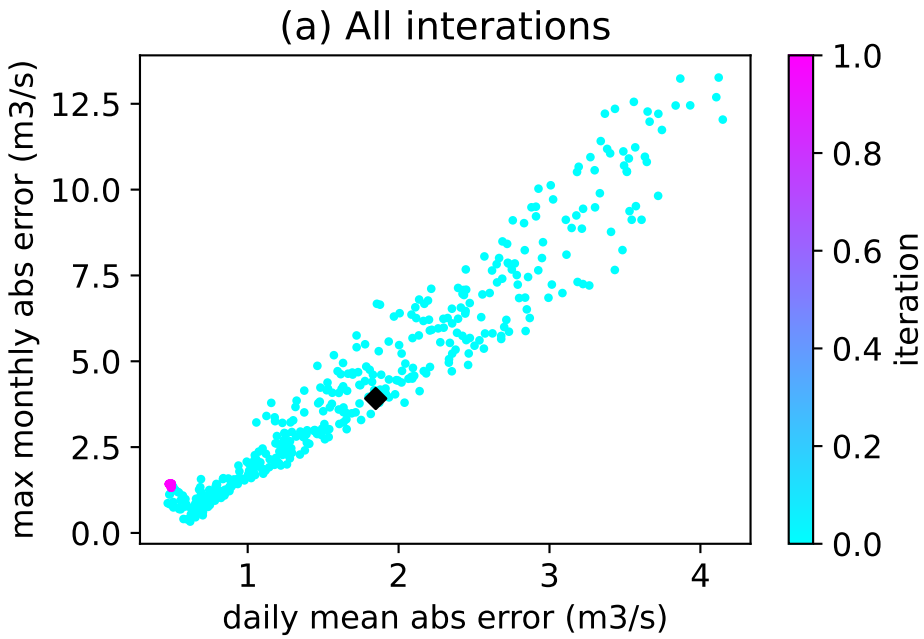

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 521
hru_id: 11253310
lat_cen: 36.39478
lon_cen: -120.51718
AREA: 235.92 km2
elev_mean: 681.59 m

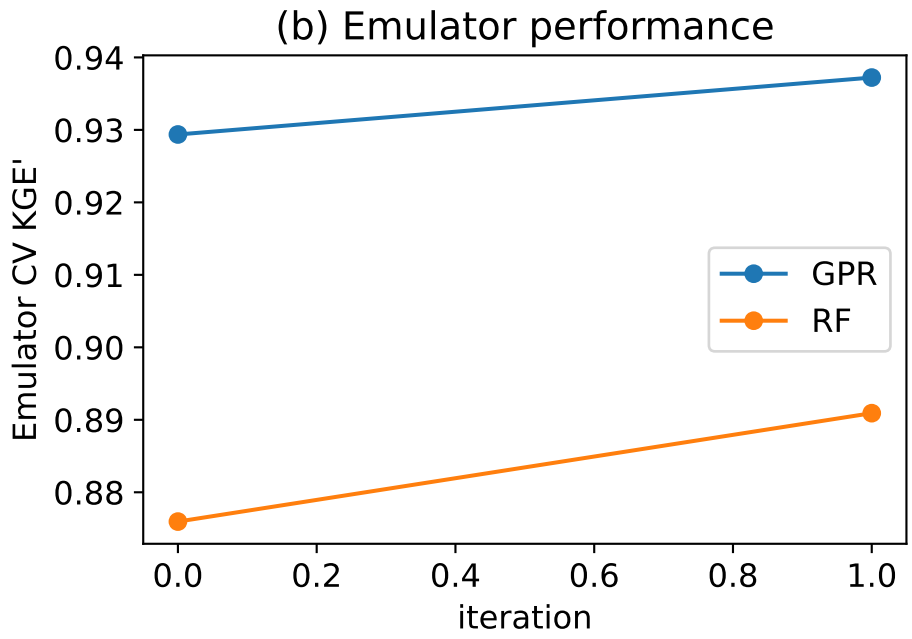


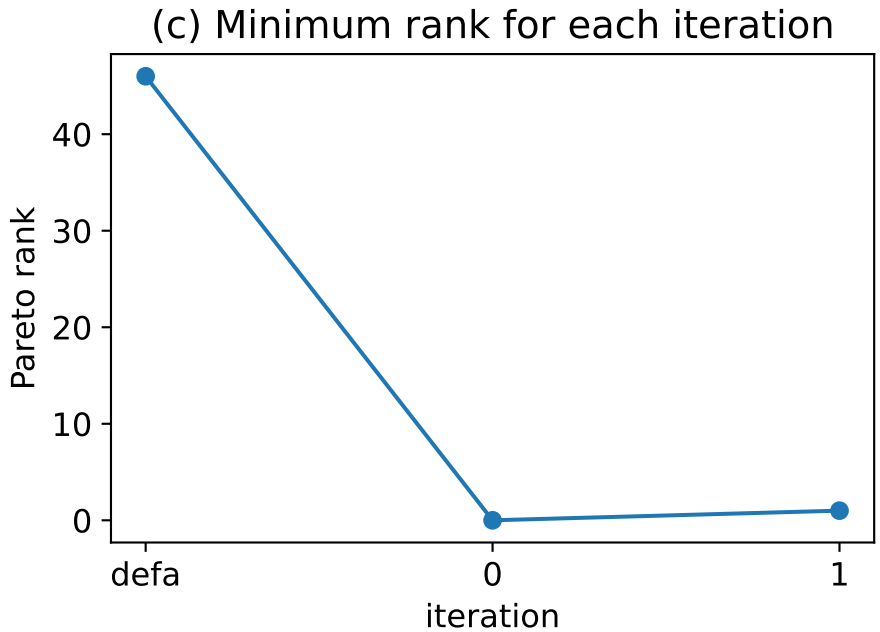




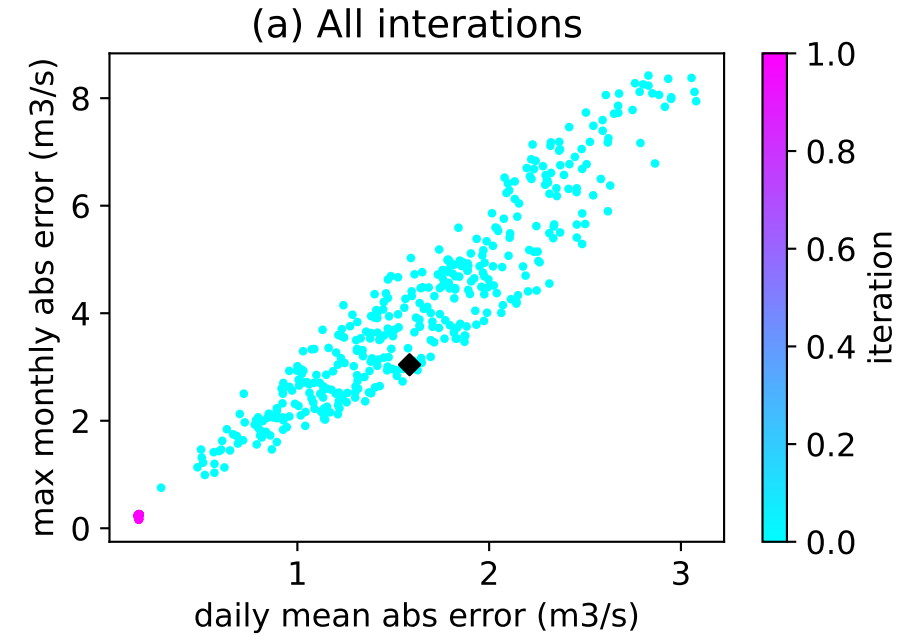
basinid: 522
hru_id: 11264500
lat_cen: 37.70889
lon_cen: -119.42502
AREA: 472.31 km2
elev_mean: 2731.96 m

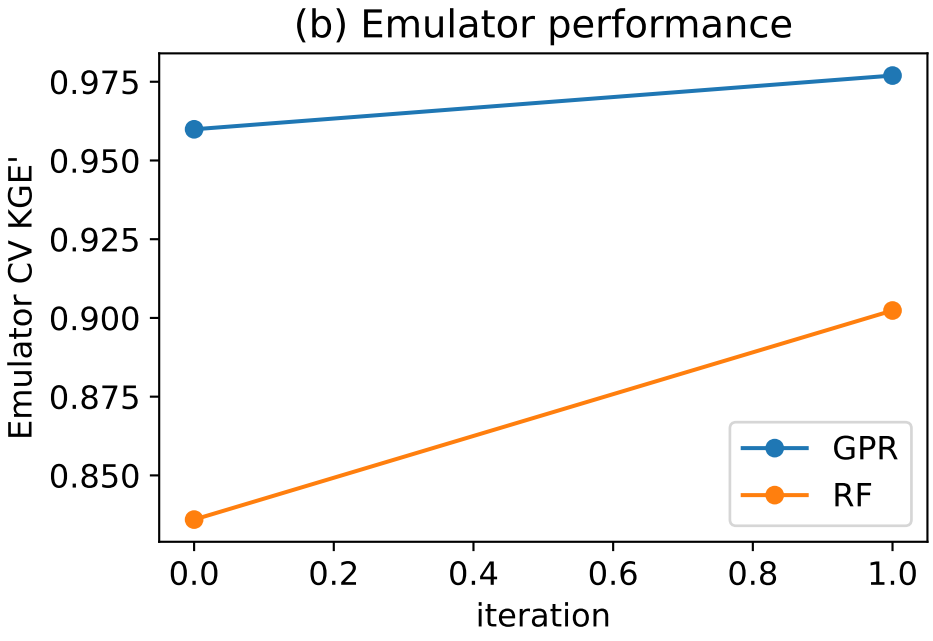


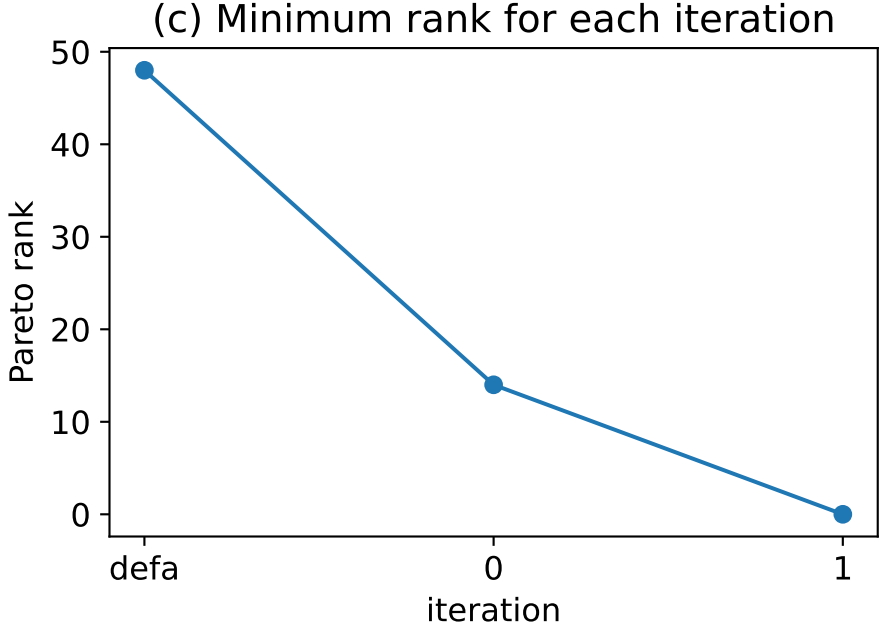




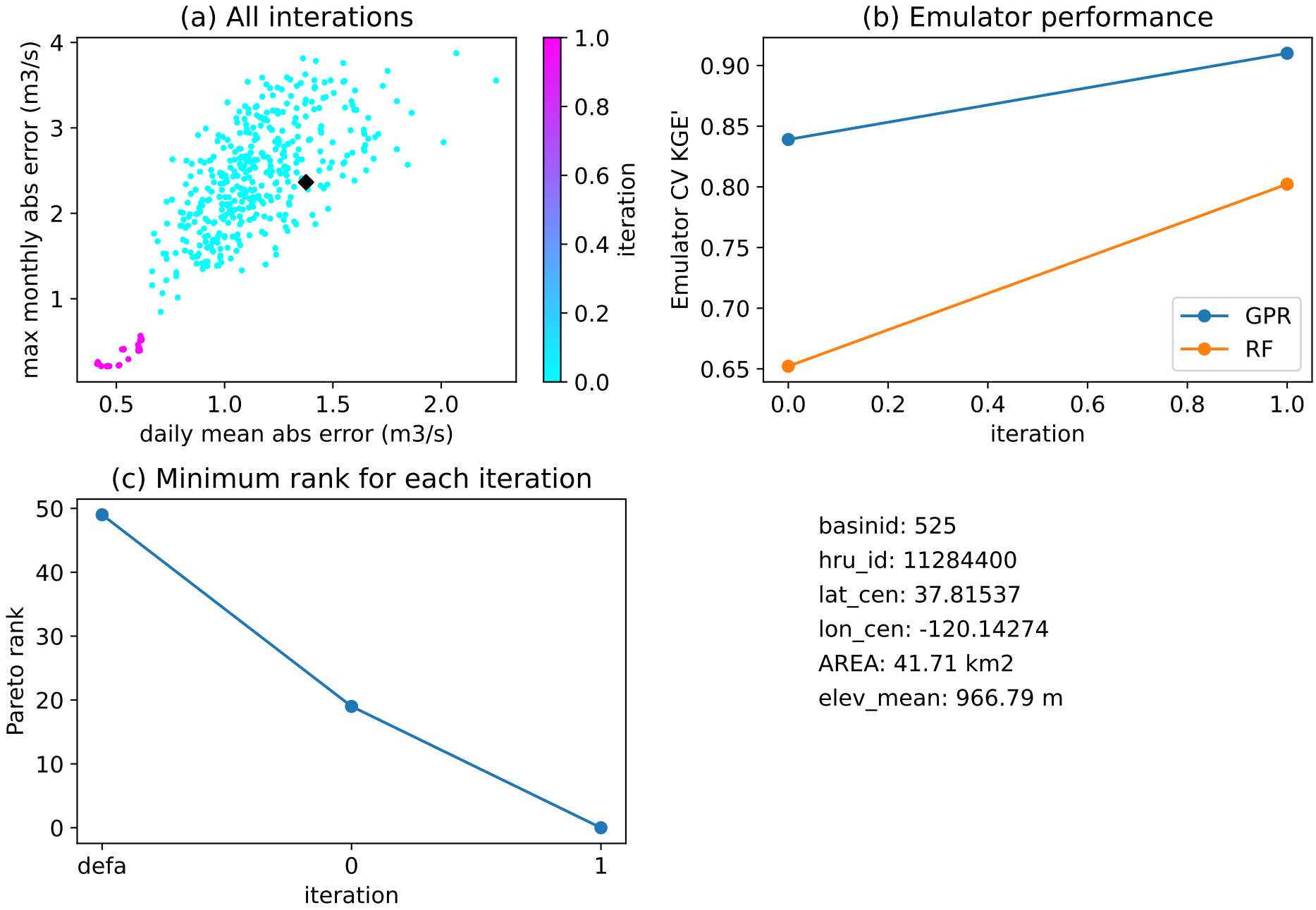
basinid: 523
hru_id: 11274500
lat_cen: 37.28551
lon_cen: -121.2949
AREA: 530.17 km2
elev_mean: 439.07 m

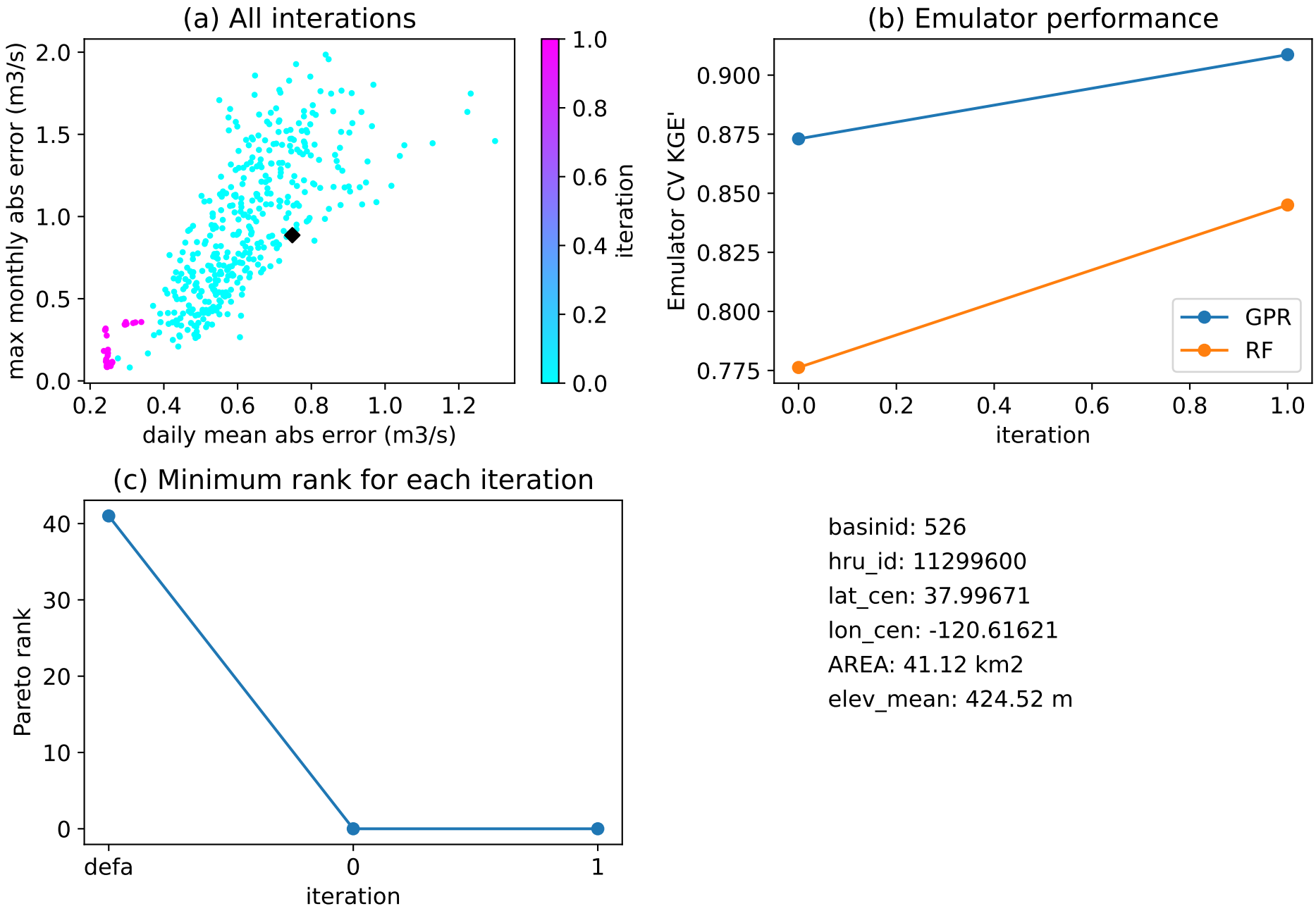


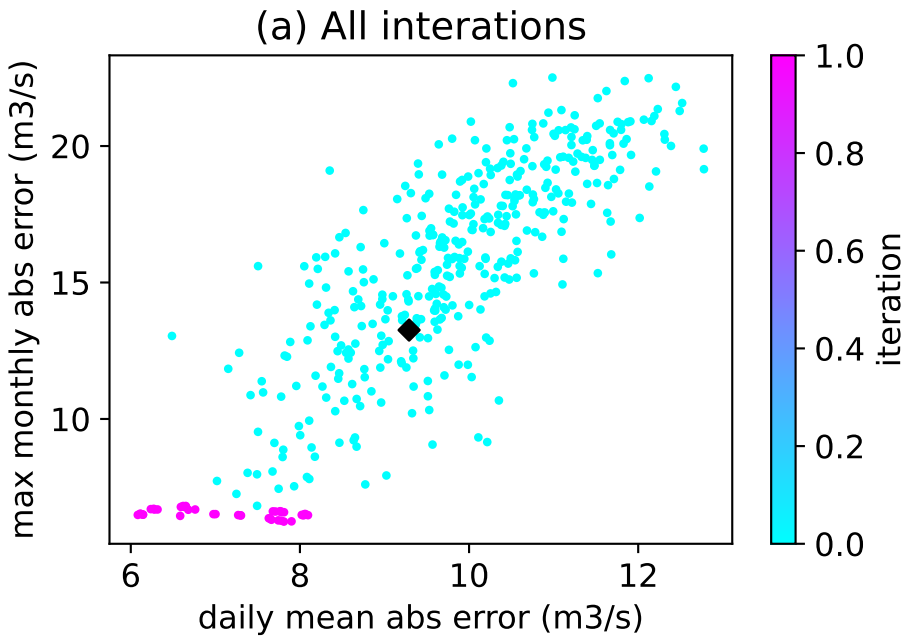


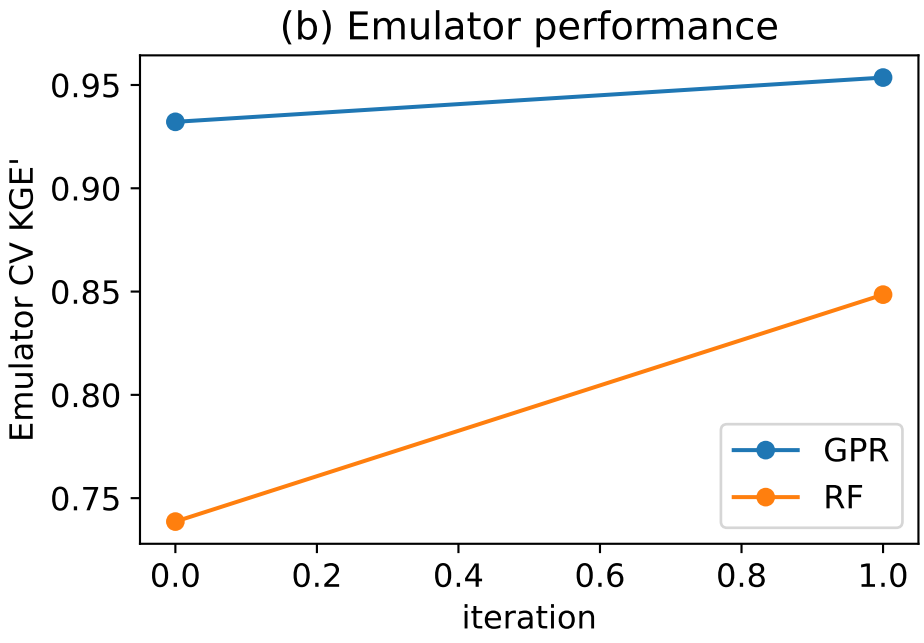


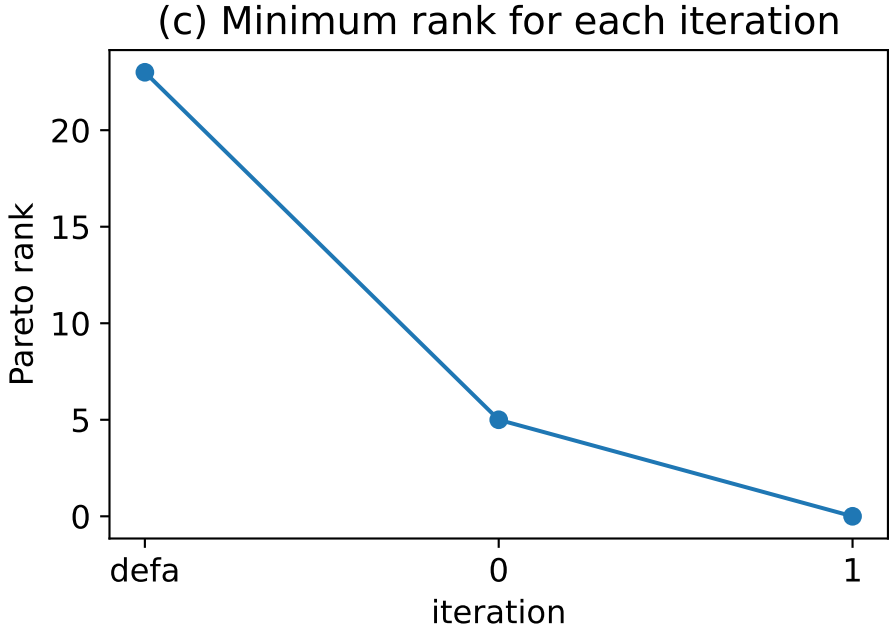
basinid: 524
hru_id: 11274630
lat_cen: 37.44805
lon_cen: -121.34566
AREA: 284.39 km2
elev_mean: 547.28 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 525
hru_id: 11284400
lat_cen: 37.81537
lon_cen: -120.14274
AREA: 41.71 km2
elev_mean: 966.79 m

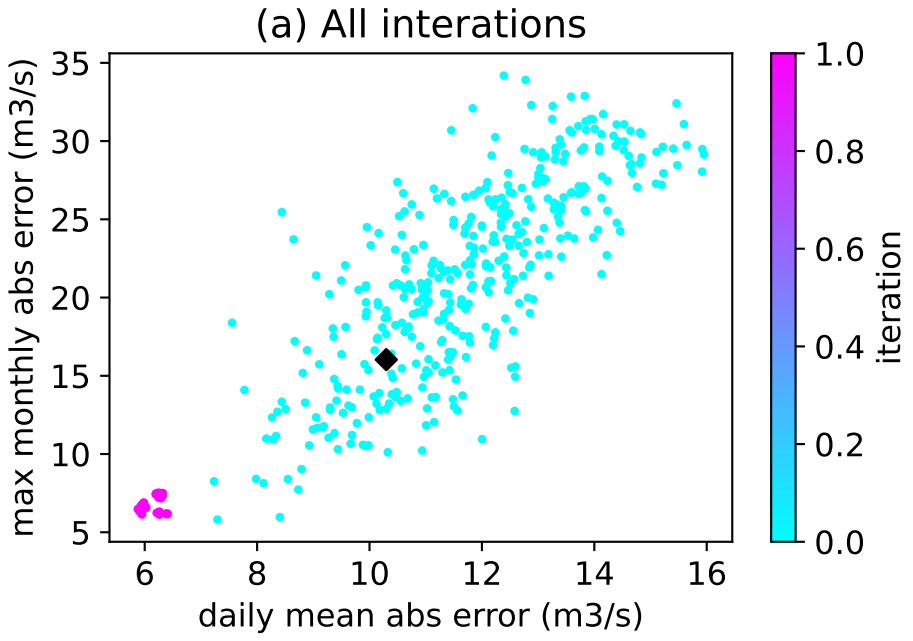

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 526
hru_id: 11299600
lat_cen: 37.99671
lon_cen: -120.61621
AREA: 41.12 km2
elev_mean: 424.52 m

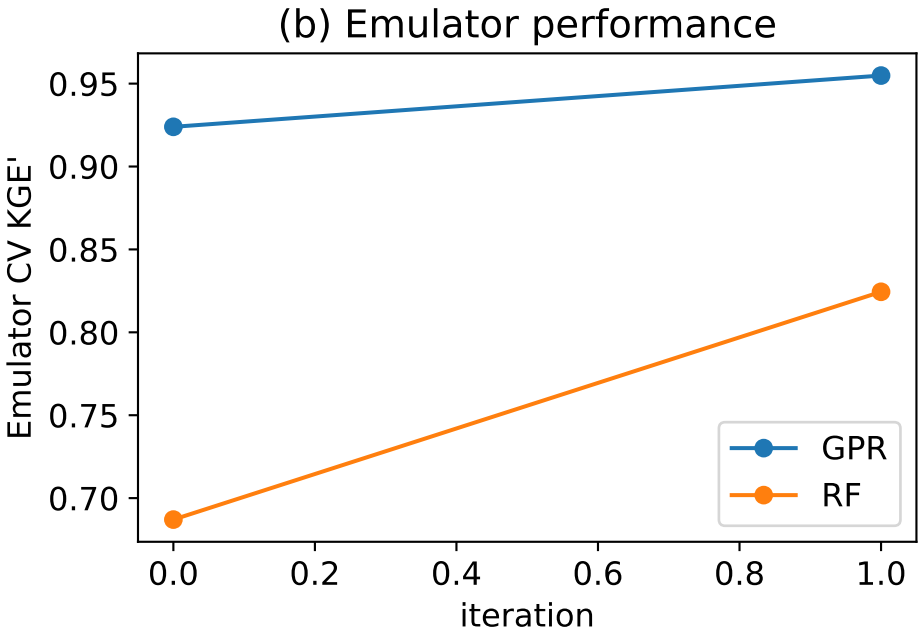


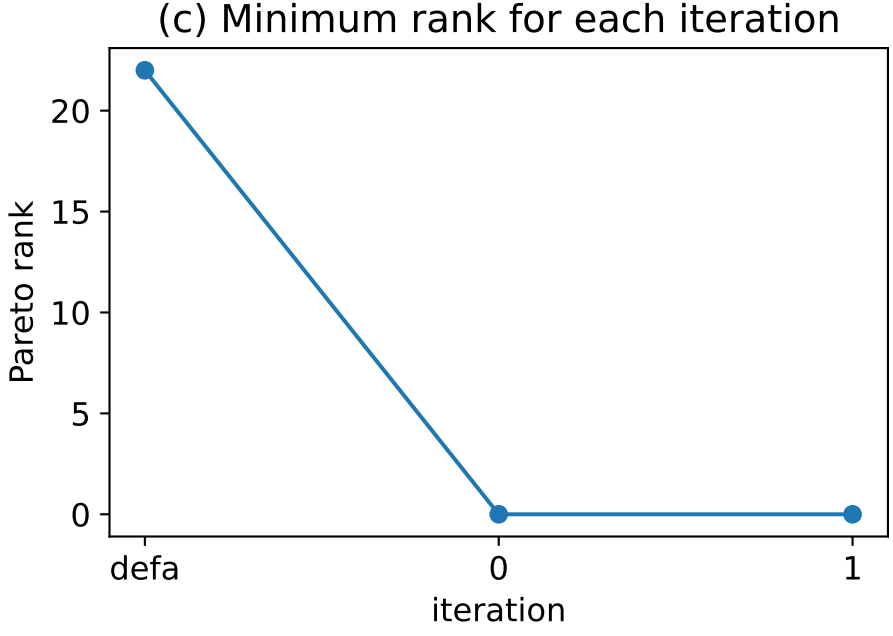




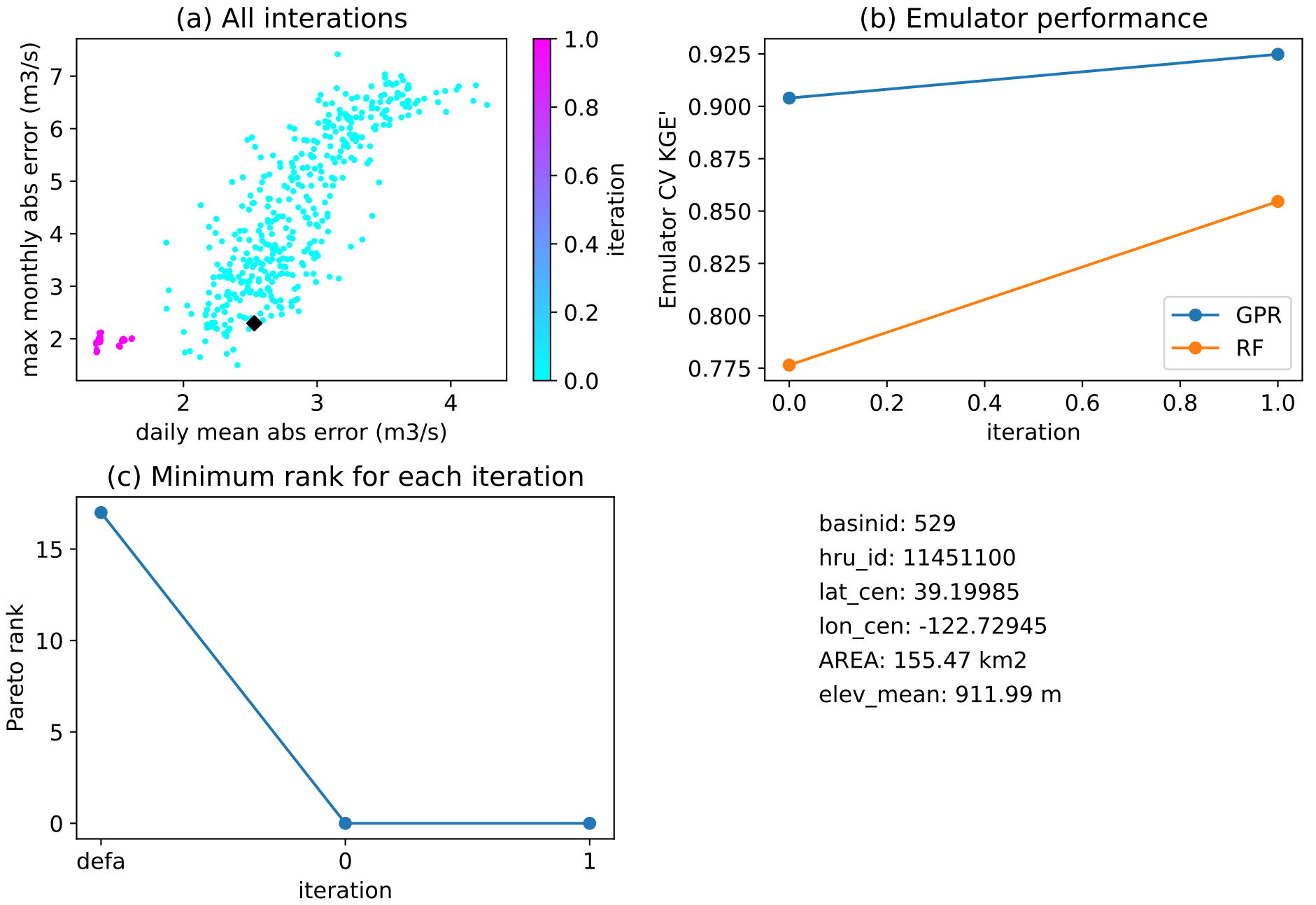
basinid: 527
hru_id: 11381500
lat_cen: 40.23865
lon_cen: -121.67376
AREA: 341.30 km2
elev_mean: 1200.01 m

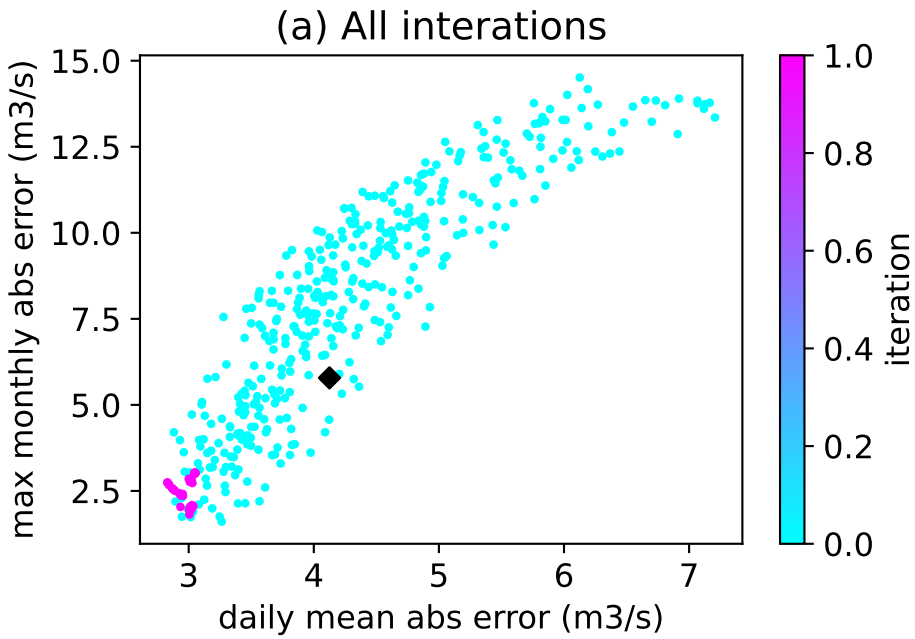


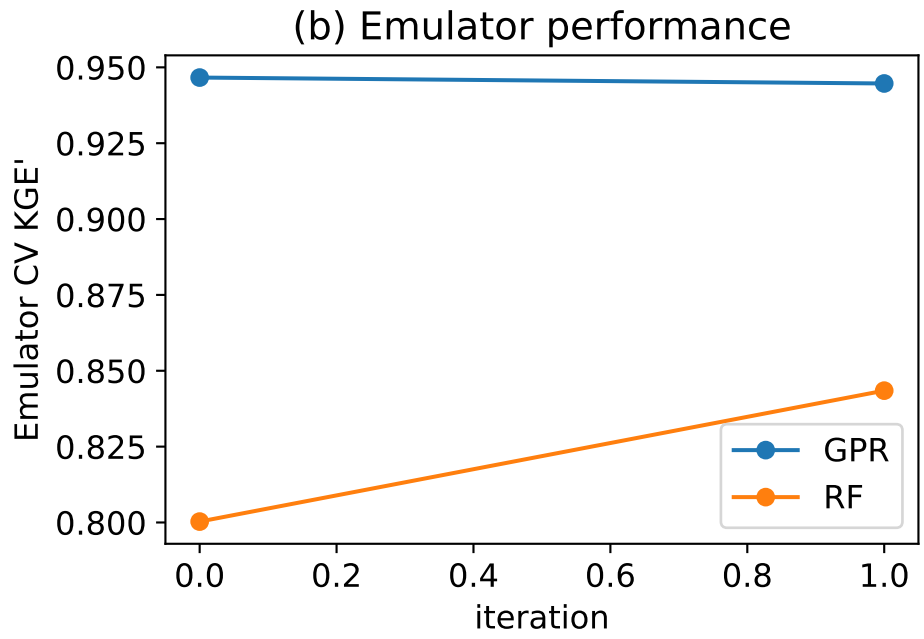


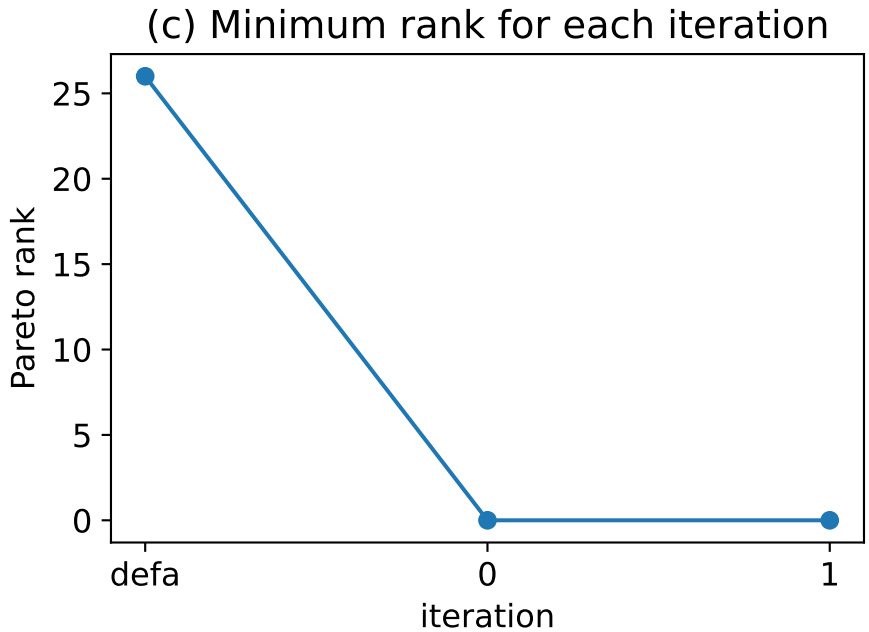


basinid: 528
hru_id: 11383500
lat_cen: 40.15139
lon_cen: -121.61053
AREA: 634.10 km2
elev_mean: 1168.12 m

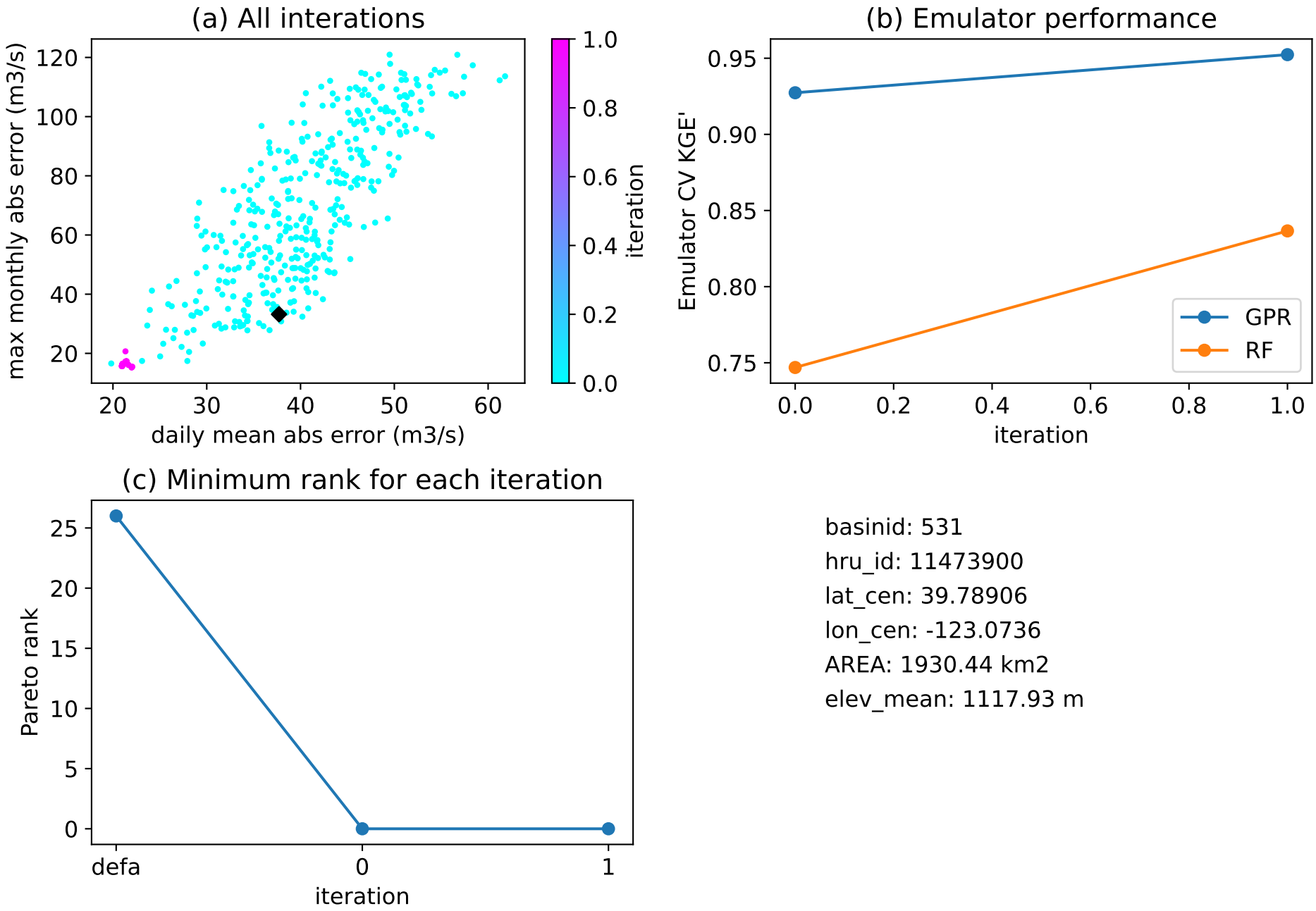

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 529
hru_id: 11451100
lat_cen: 39.19985
lon_cen: -122.72945
AREA: 155.47 km2
elev_mean: 911.99 m

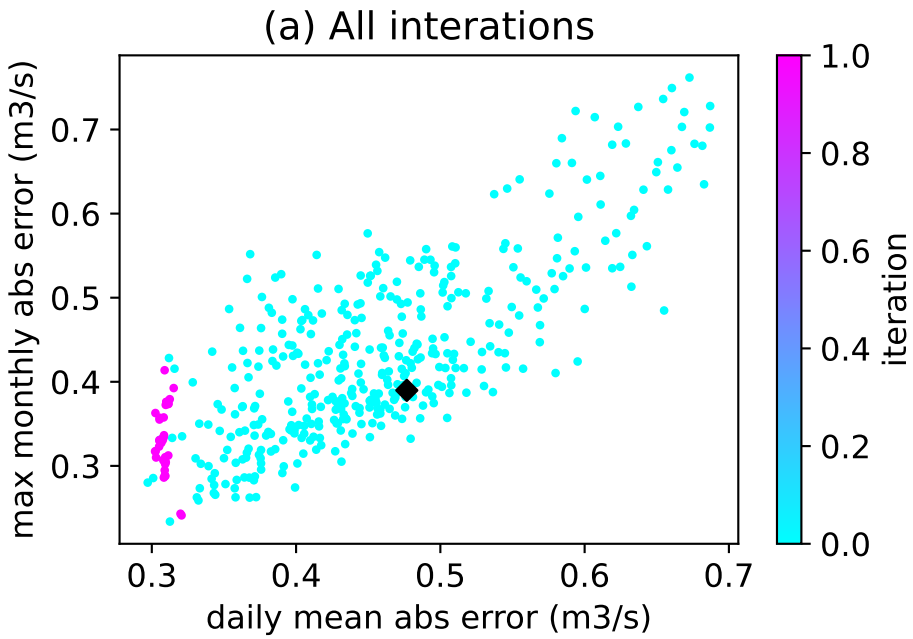


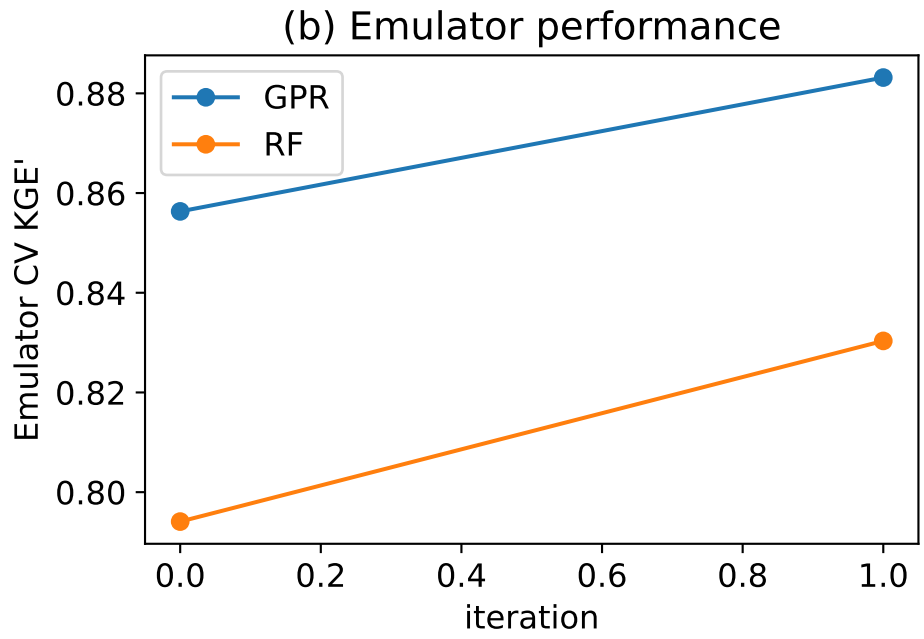


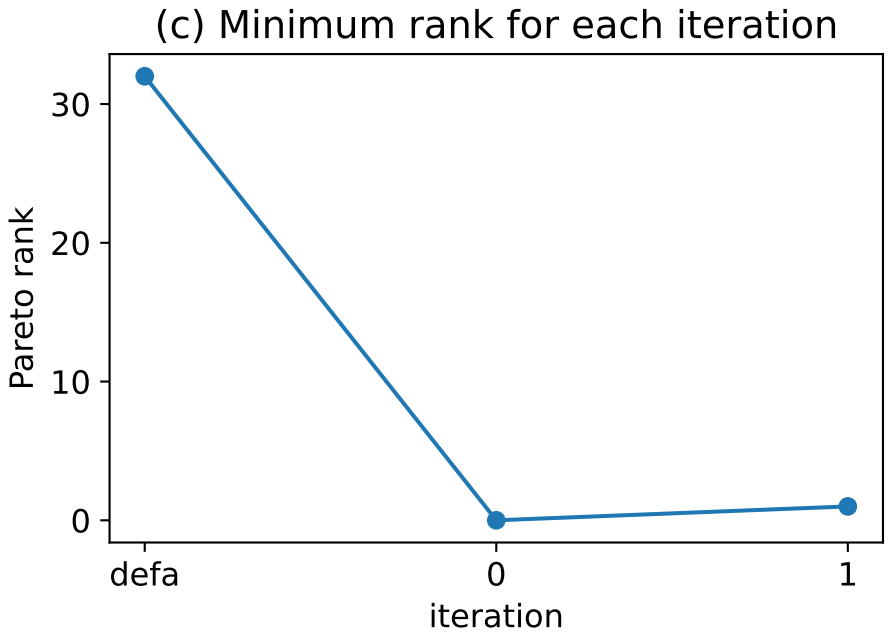


basinid: 530
hru_id: 11468500
lat_cen: 39.43312
lon_cen: -123.56776
AREA: 273.61 km2
elev_mean: 283.59 m

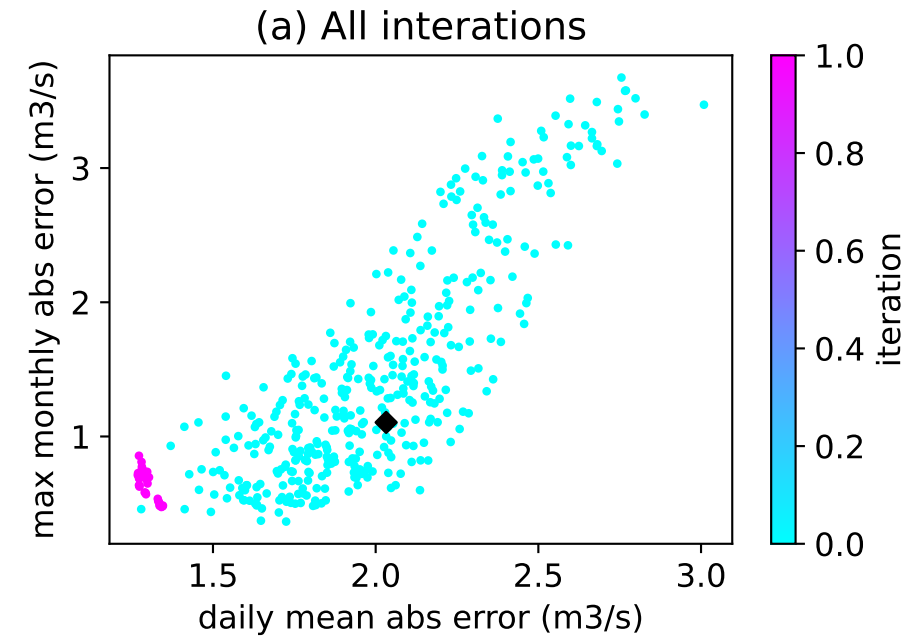

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 531
hru_id: 11473900
lat_cen: 39.78906
lon_cen: -123.0736
AREA: 1930.44 km2
elev_mean: 1117.93 m

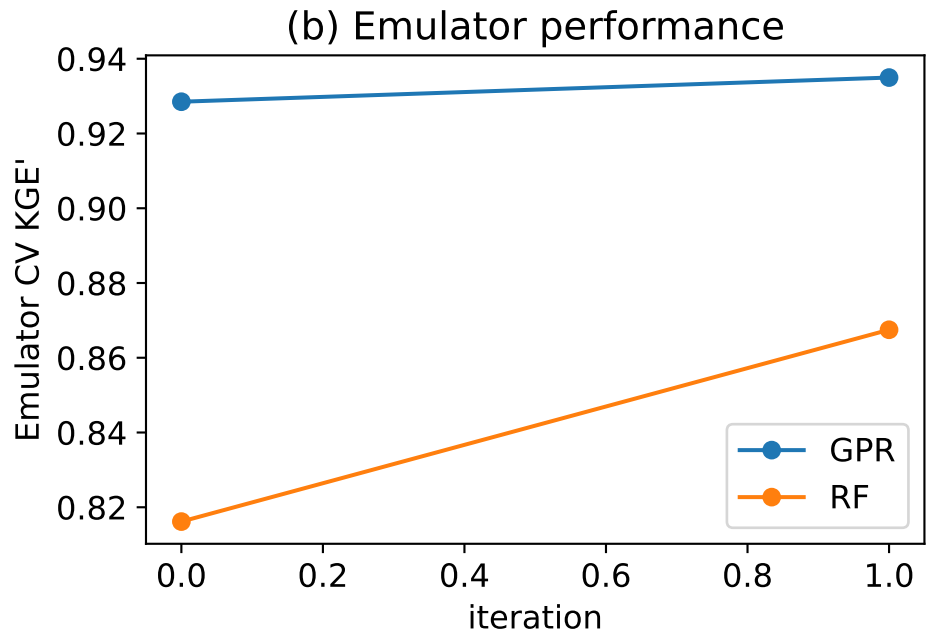


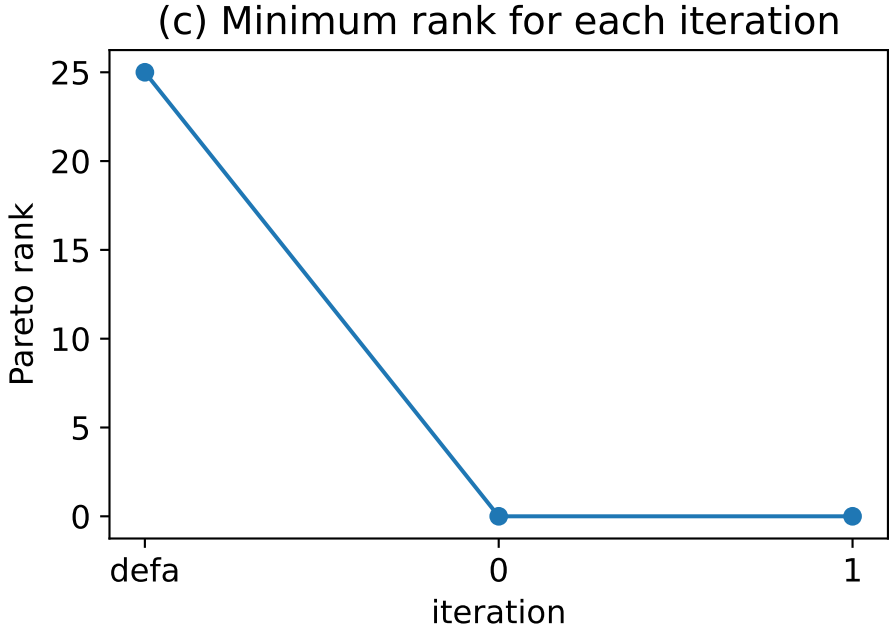




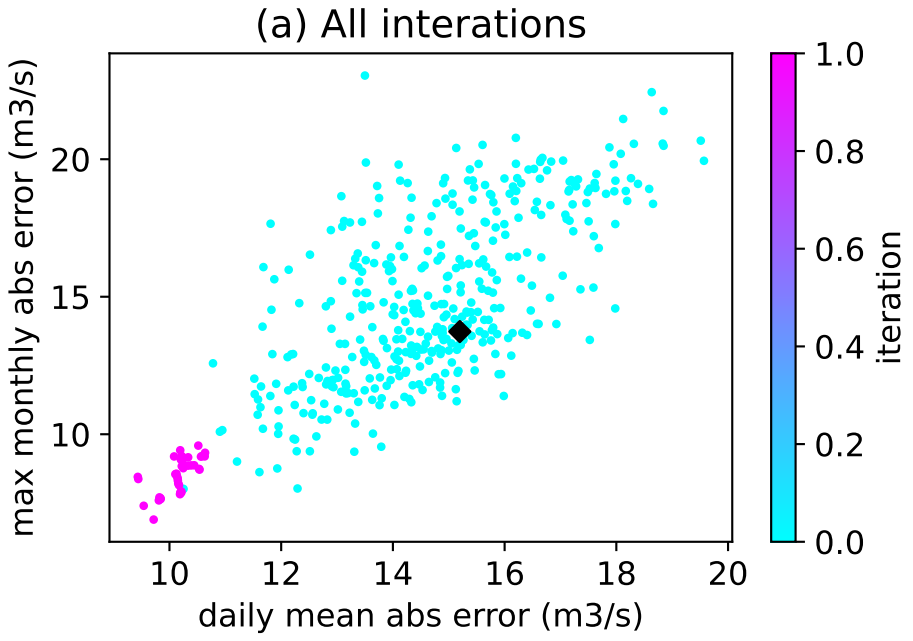
basinid: 532
hru_id: 11475560
lat_cen: 39.71402
lon_cen: -123.60395
AREA: 16.87 km2
elev_mean: 863.74 m

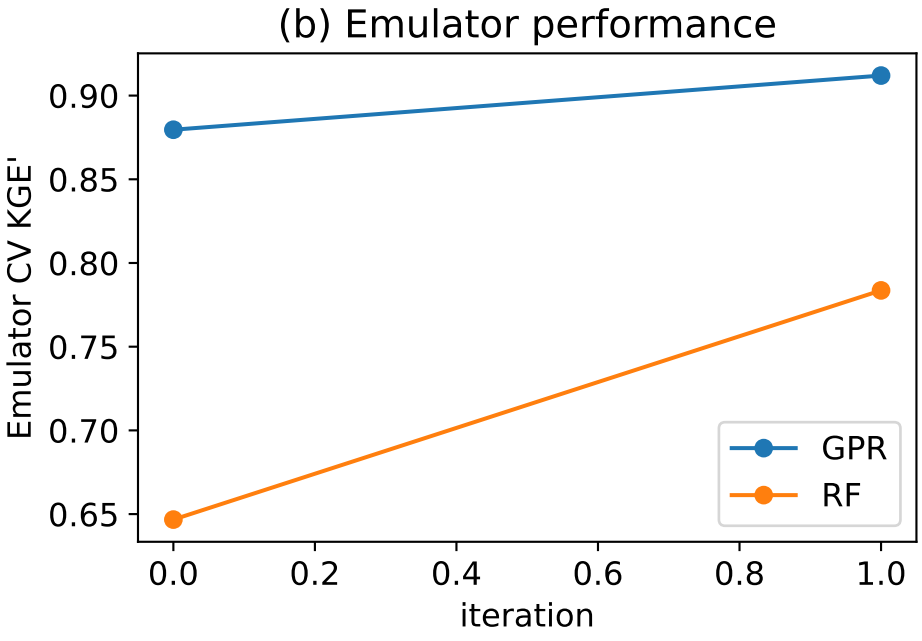


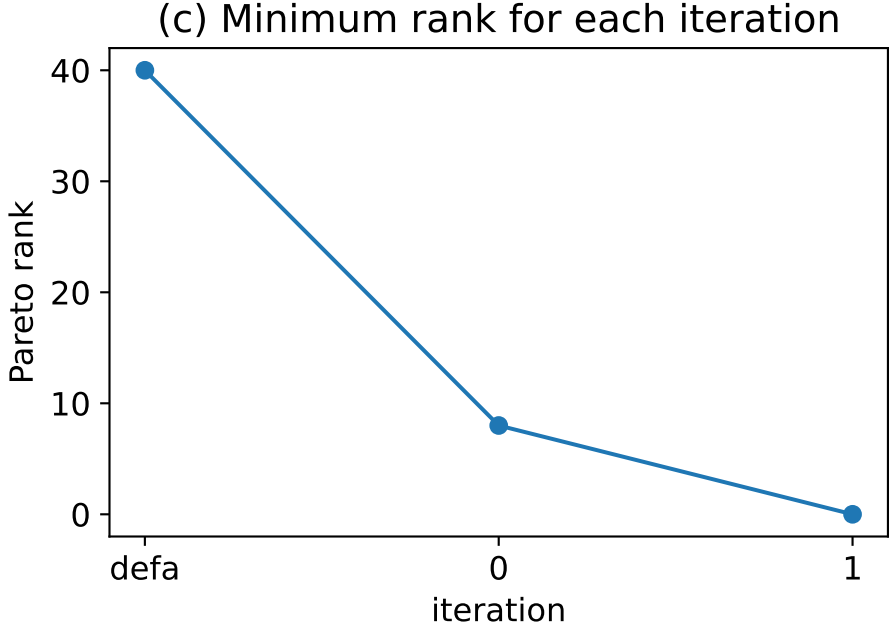




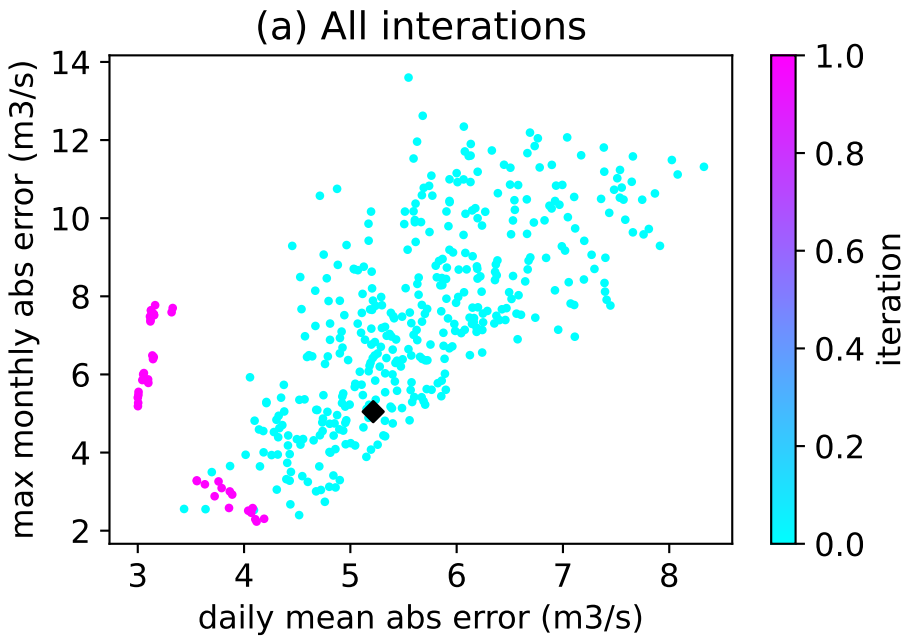
basinid: 533
hru_id: 11476600
lat_cen: 40.31625
lon_cen: -124.02728
AREA: 72.29 km2
elev_mean: 492.66 m

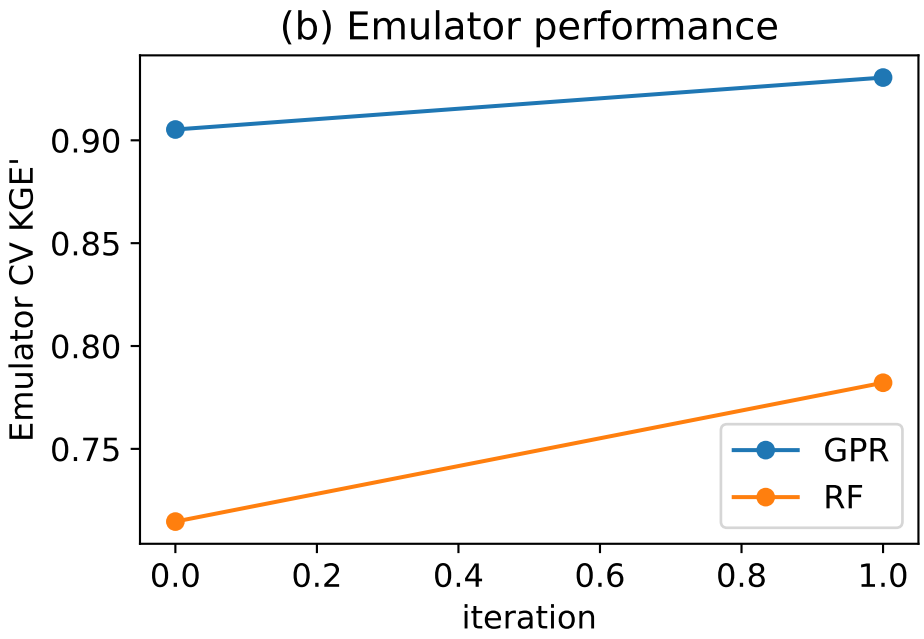


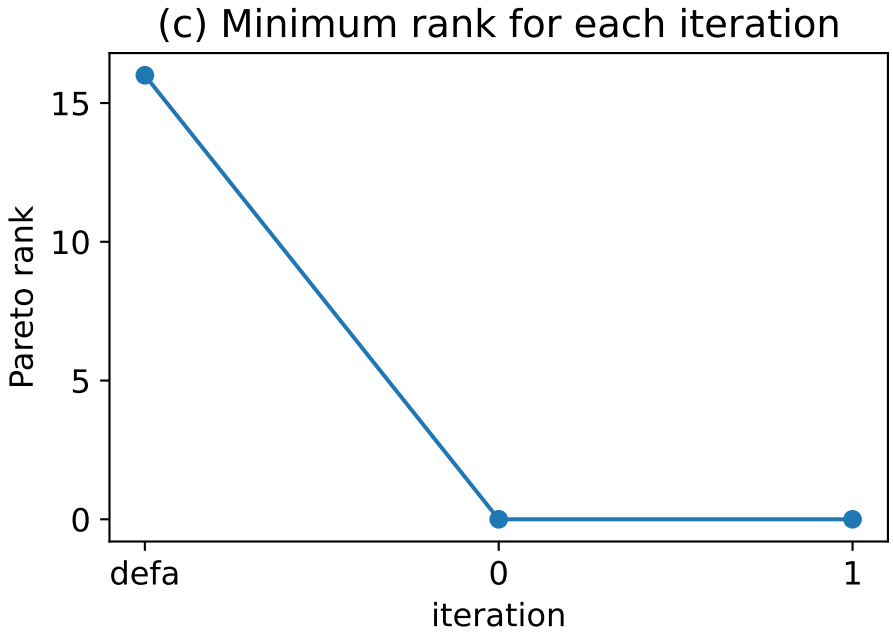




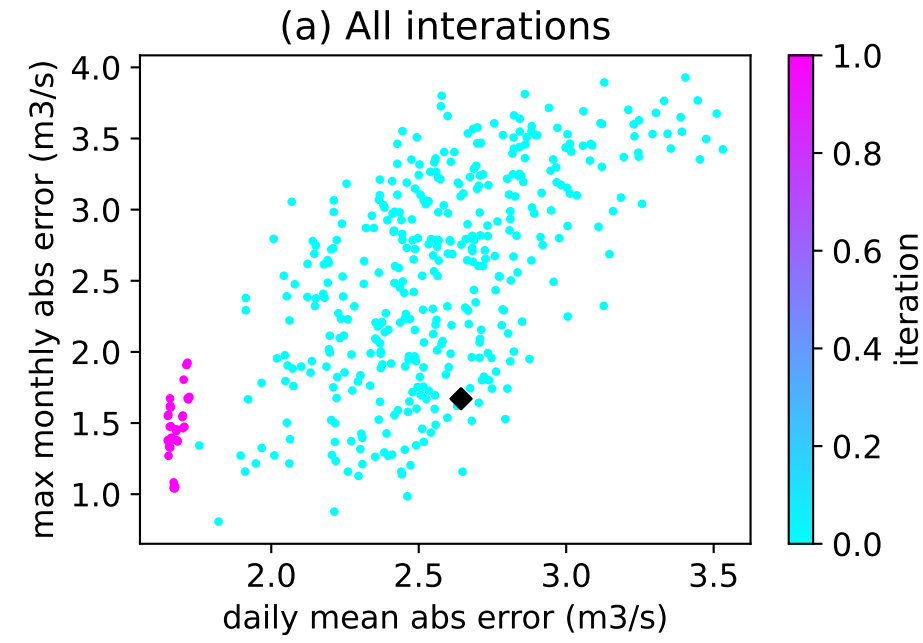
basinid: 534
hru_id: 11478500
lat_cen: 40.42245
lon_cen: -123.63329
AREA: 574.99 km2
elev_mean: 929.22 m

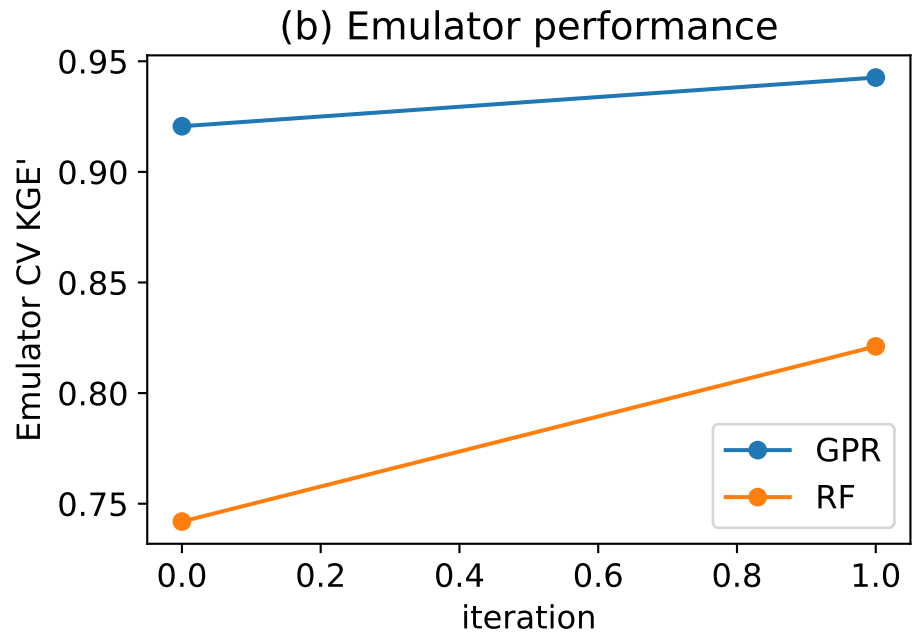


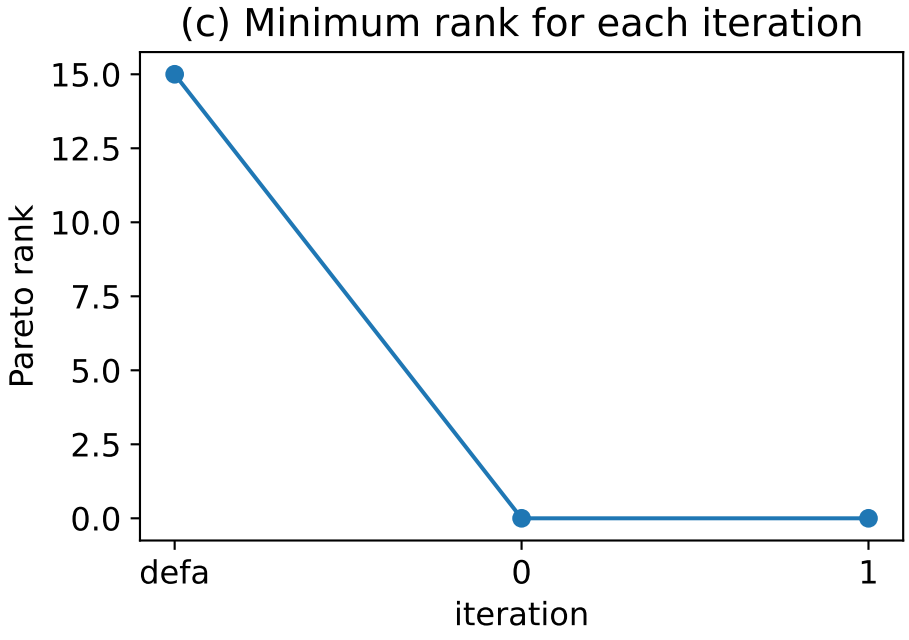




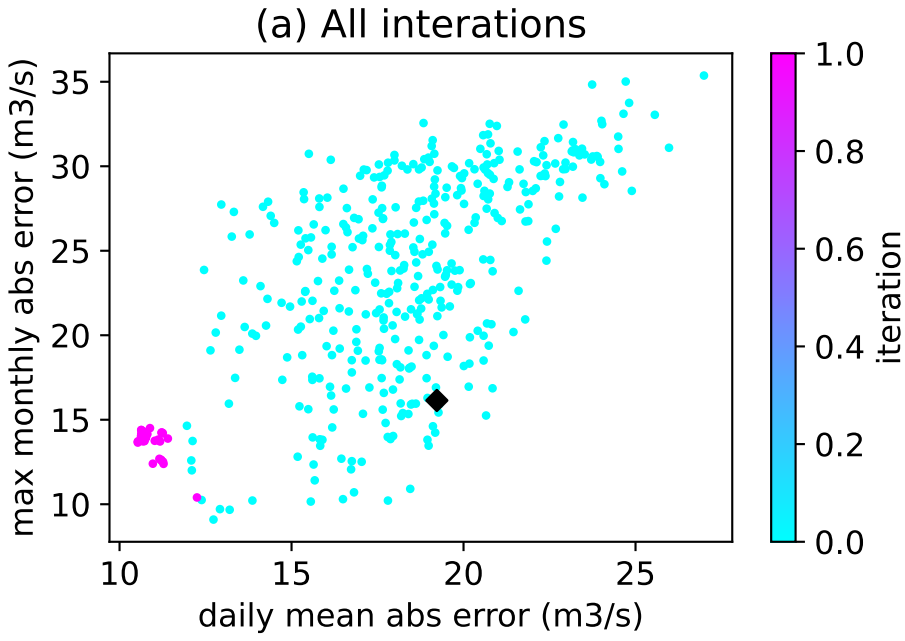
basinid: 535
hru_id: 11480390
lat_cen: 40.19288
lon_cen: -123.24386
AREA: 243.15 km2
elev_mean: 1124.45 m

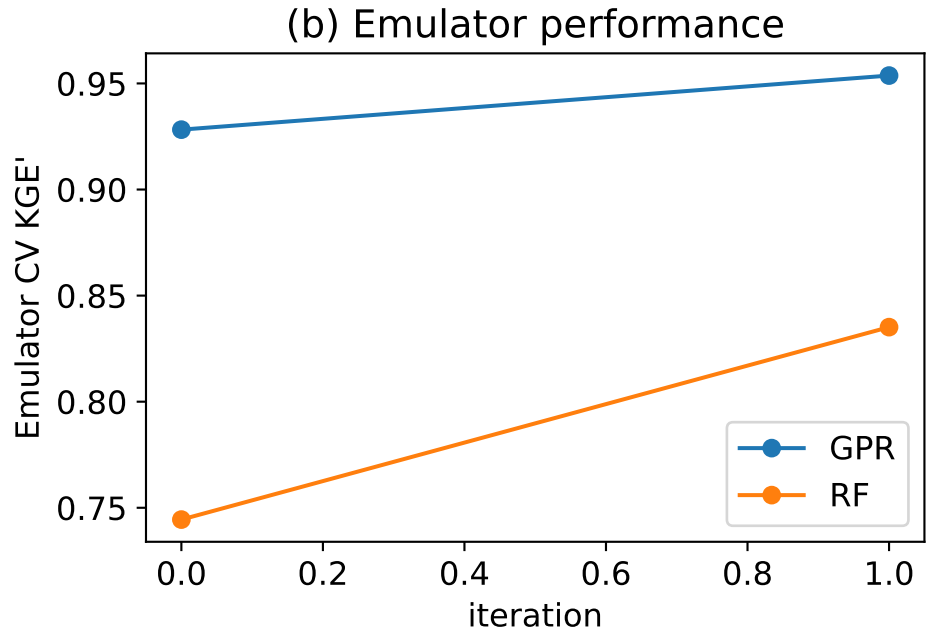


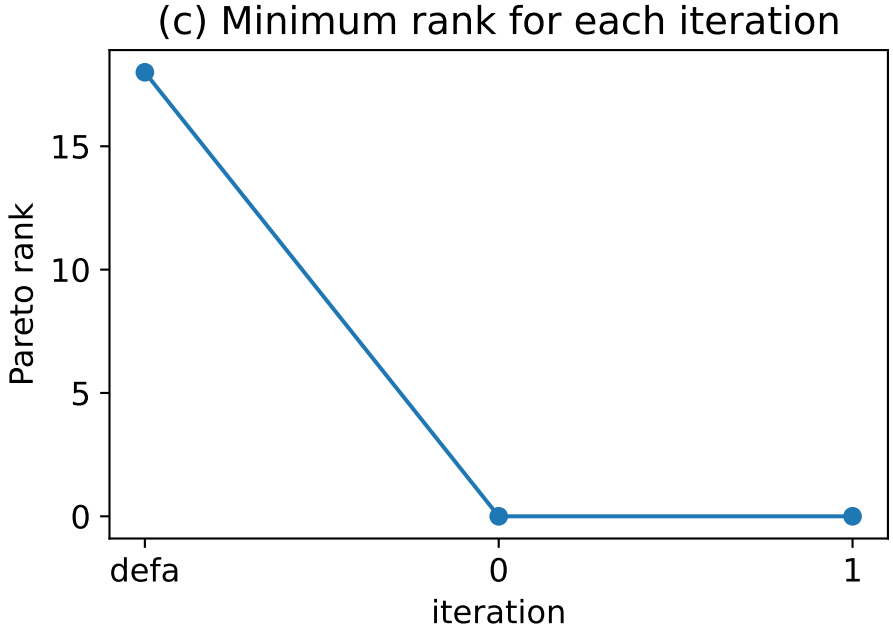




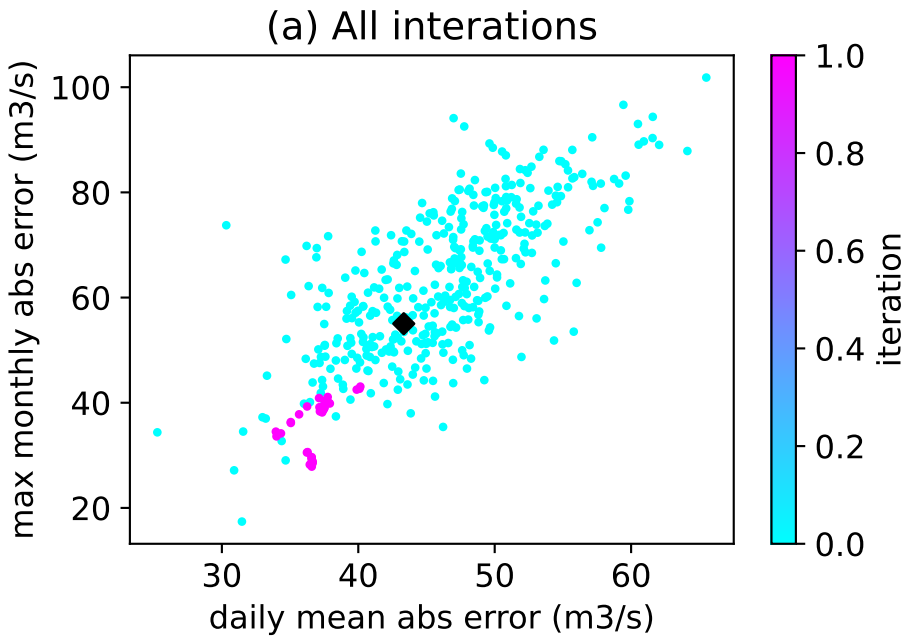
basinid: 536
hru_id: 11481200
lat_cen: 41.02266
lon_cen: -123.99714
AREA: 106.85 km2
elev_mean: 313.88 m

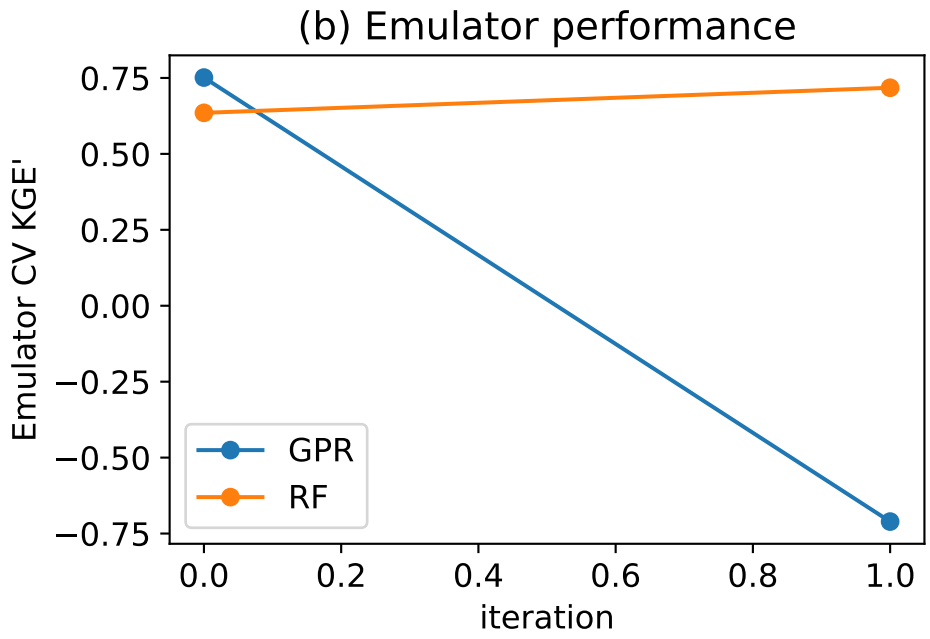


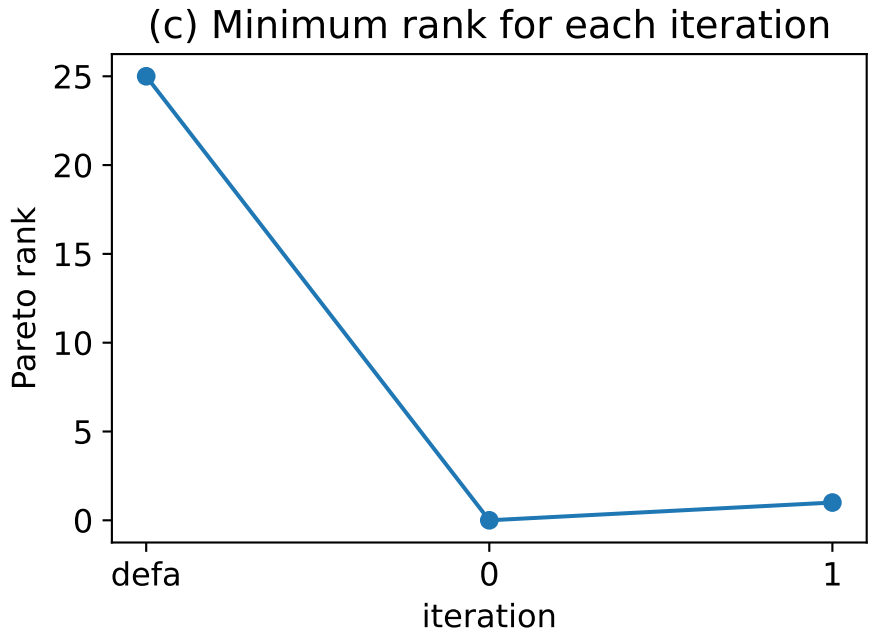




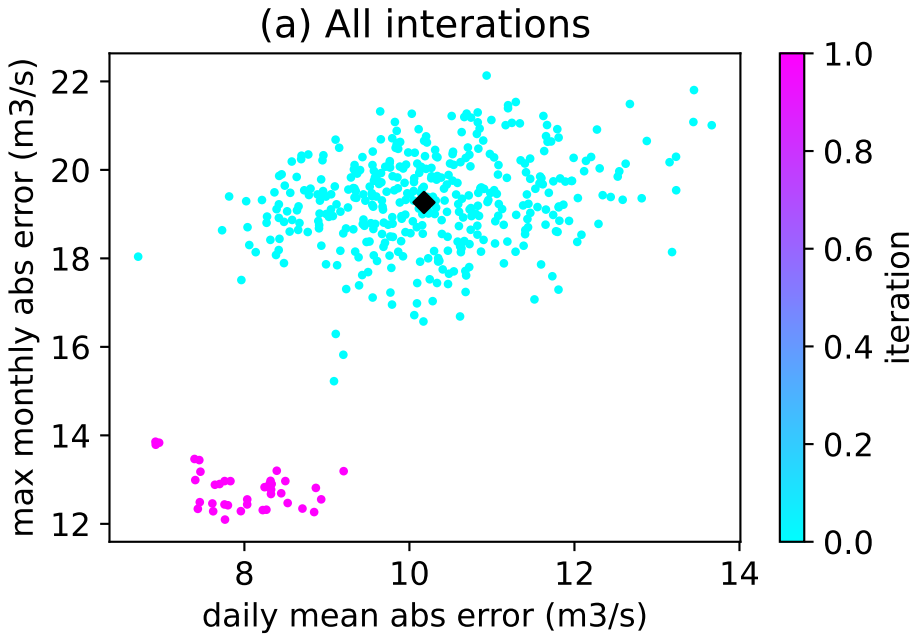
basinid: 537
hru_id: 11482500
lat_cen: 41.06113
lon_cen: -123.89077
AREA: 724.01 km2
elev_mean: 567.17 m

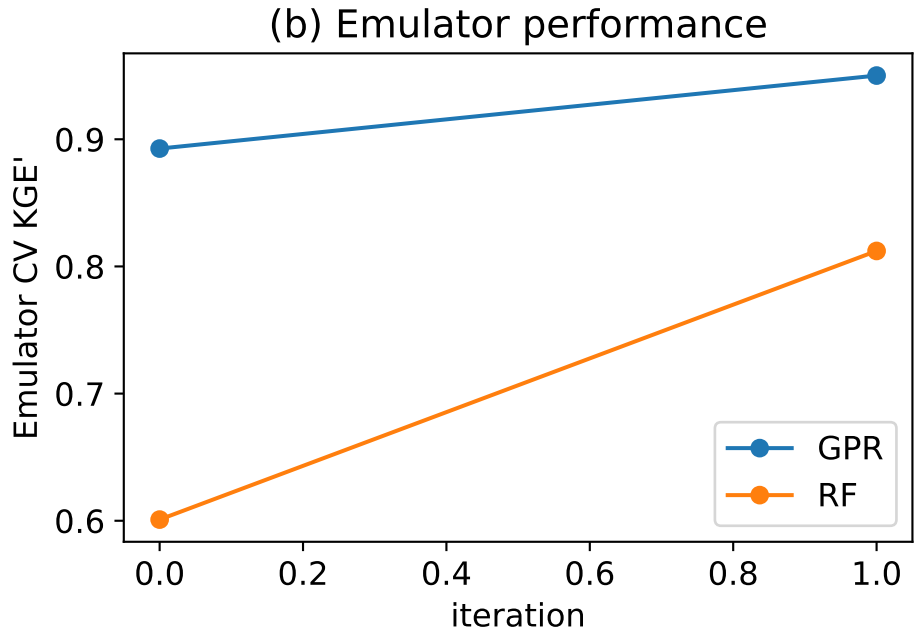


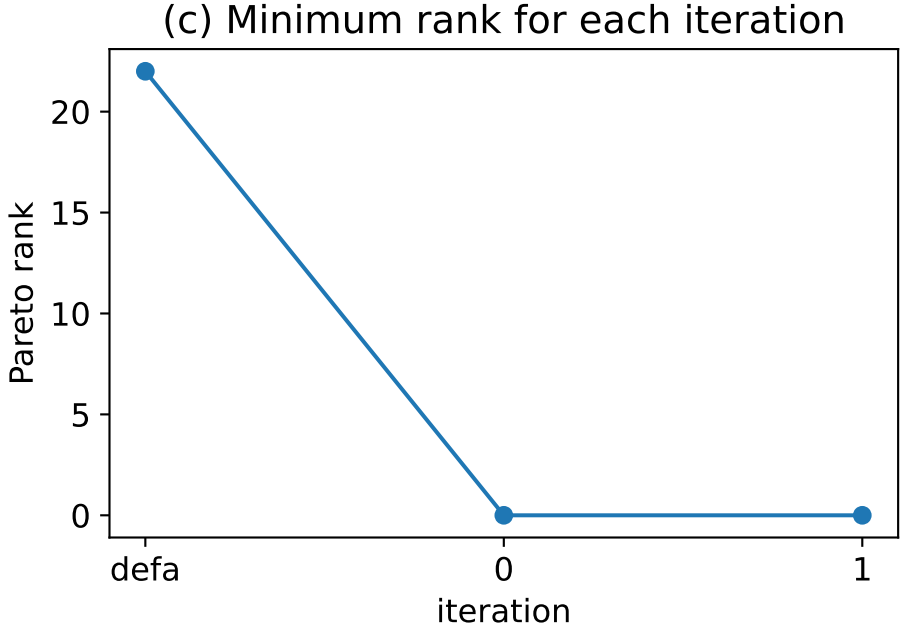




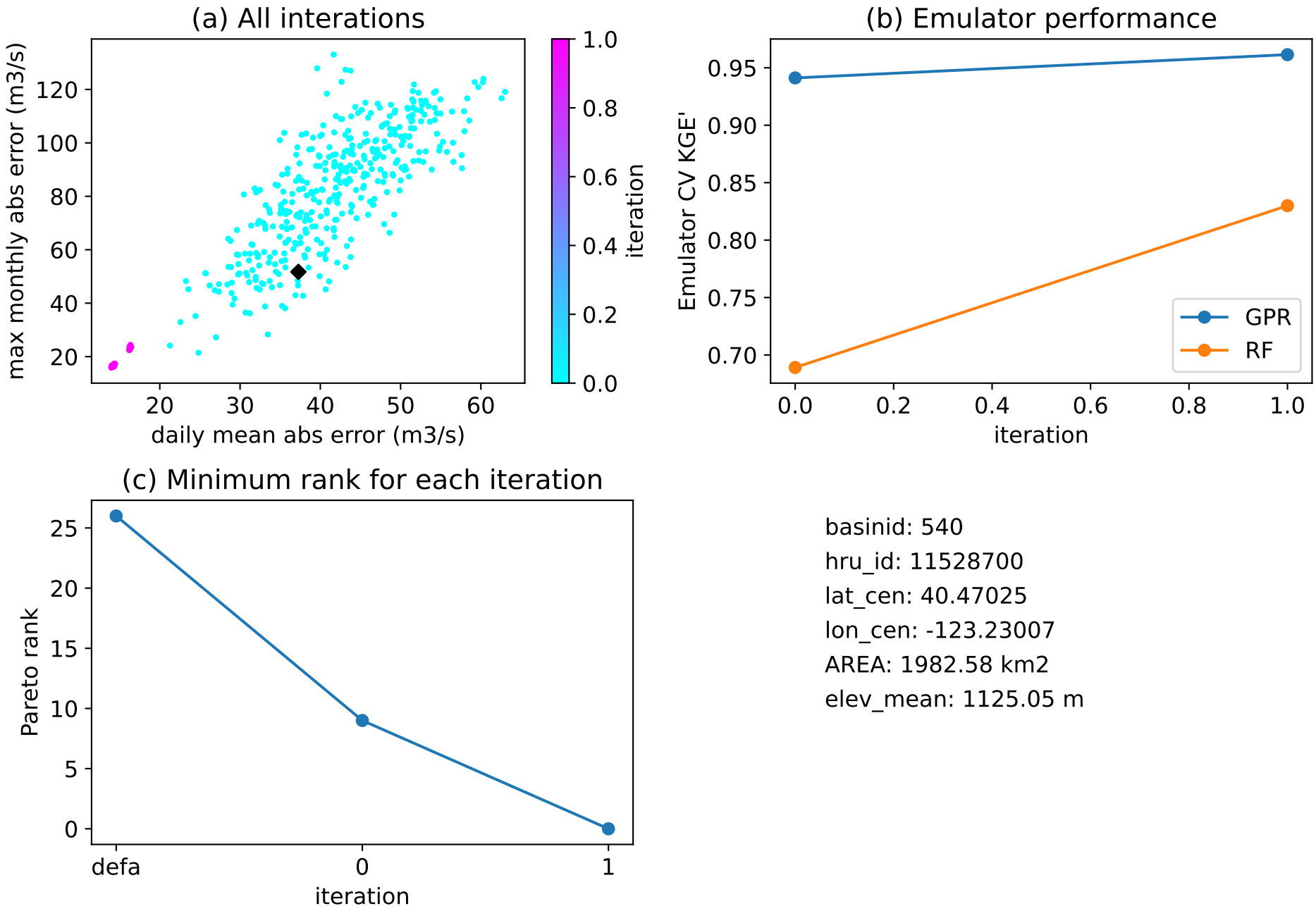
basinid: 538
hru_id: 11522500
lat_cen: 41.29337
lon_cen: -123.19039
AREA: 1946.34 km2
elev_mean: 1292.88 m

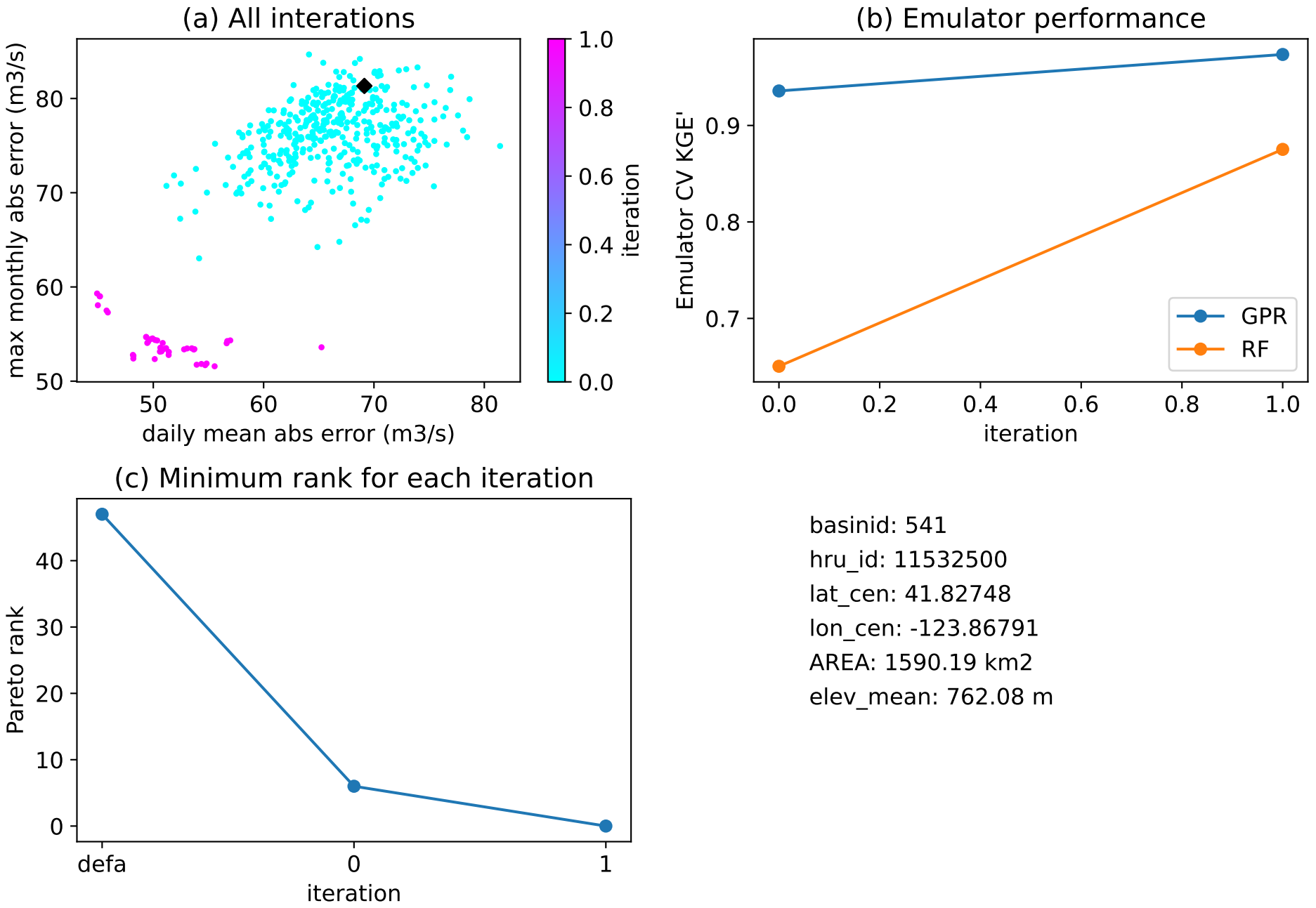


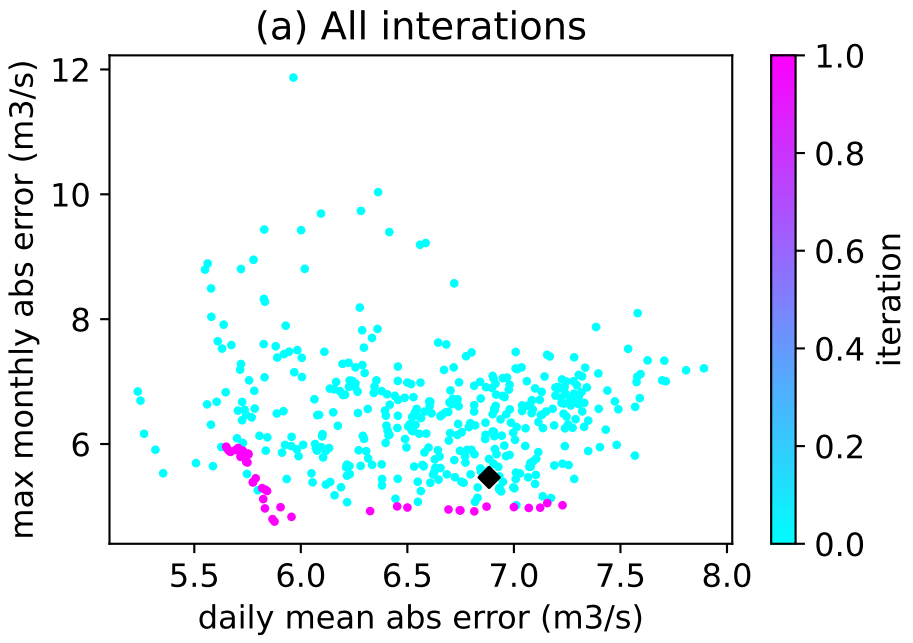


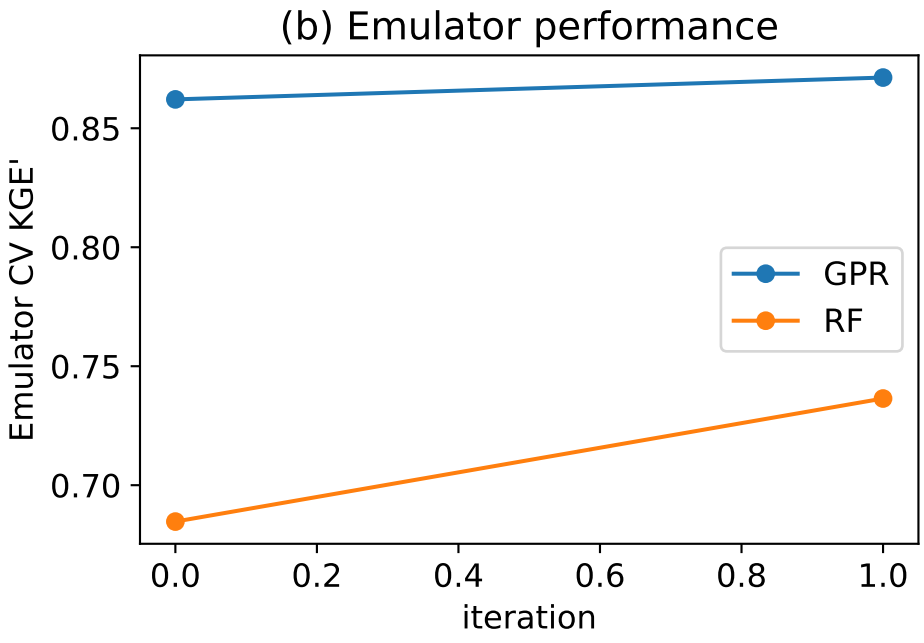


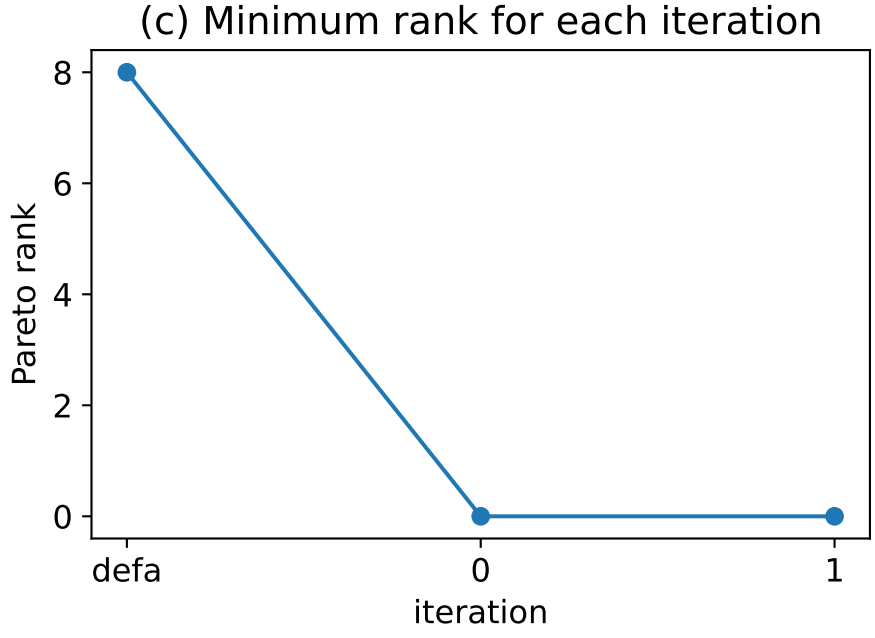
basinid: 539
hru_id: 11523200
lat_cen: 41.22828
lon_cen: -122.64033
AREA: 385.09 km2
elev_mean: 1623.57 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 540
hru_id: 11528700
lat_cen: 40.47025
lon_cen: -123.23007
AREA: 1982.58 km2
elev_mean: 1125.05 m

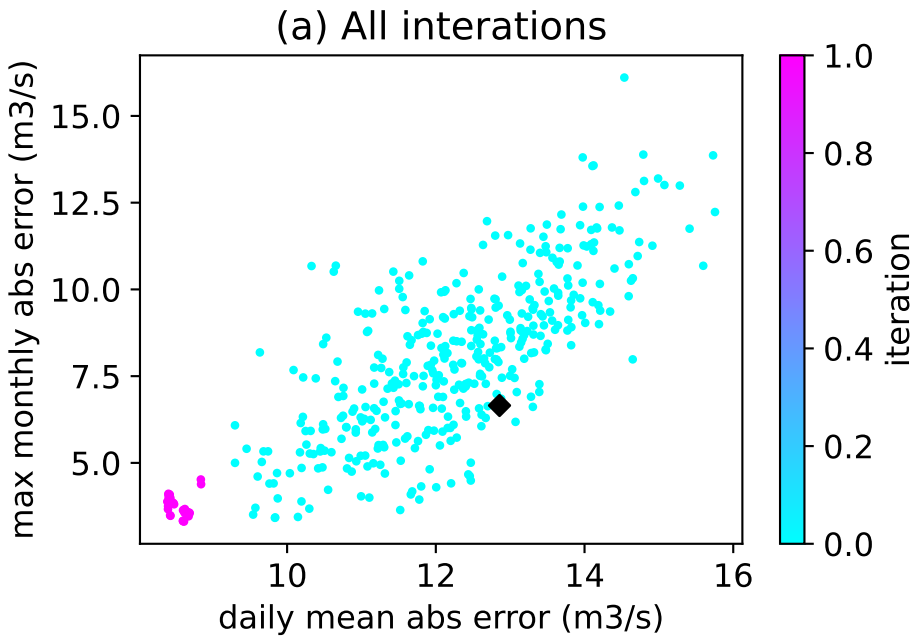

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 541
hru_id: 11532500
lat_cen: 41.82748
lon_cen: -123.86791
AREA: 1590.19 km2
elev_mean: 762.08 m

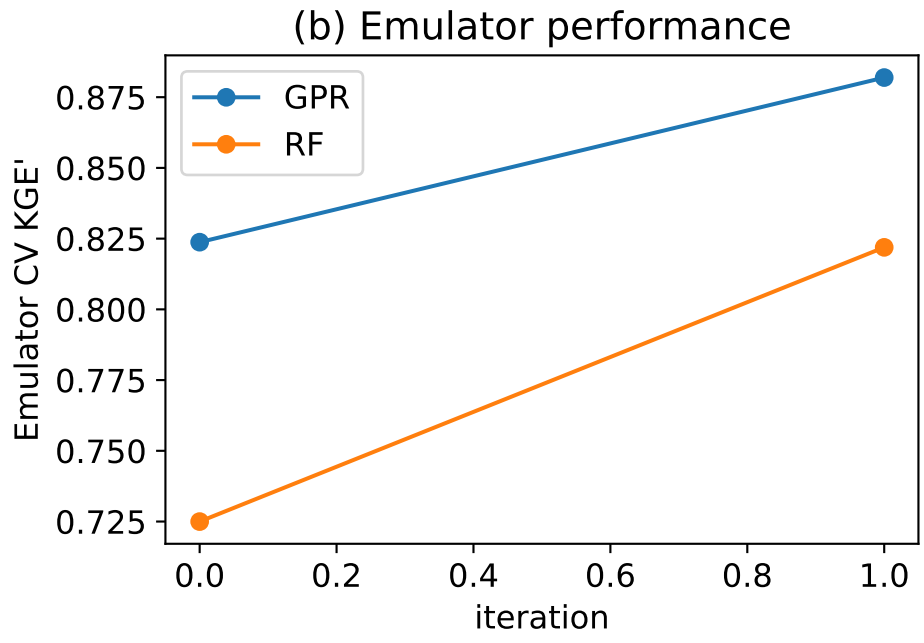


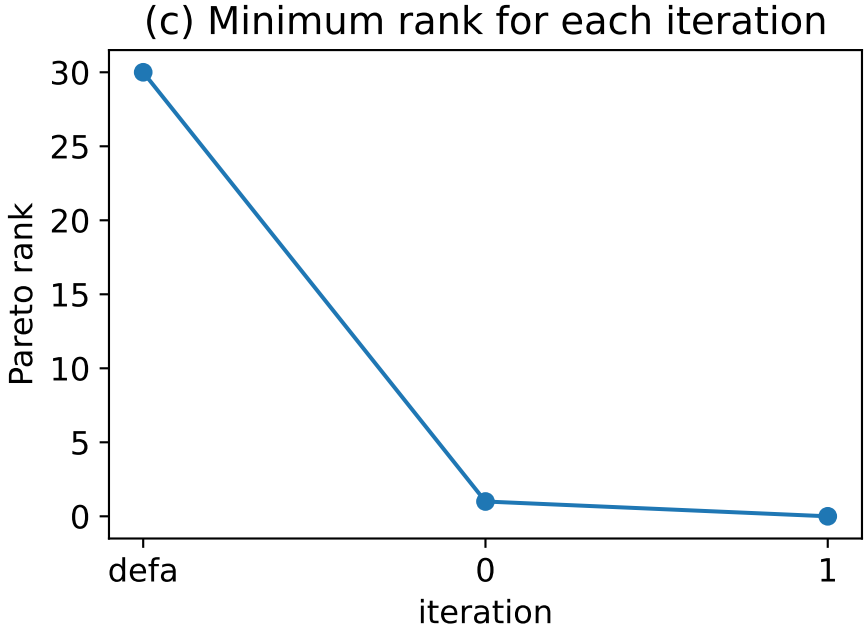




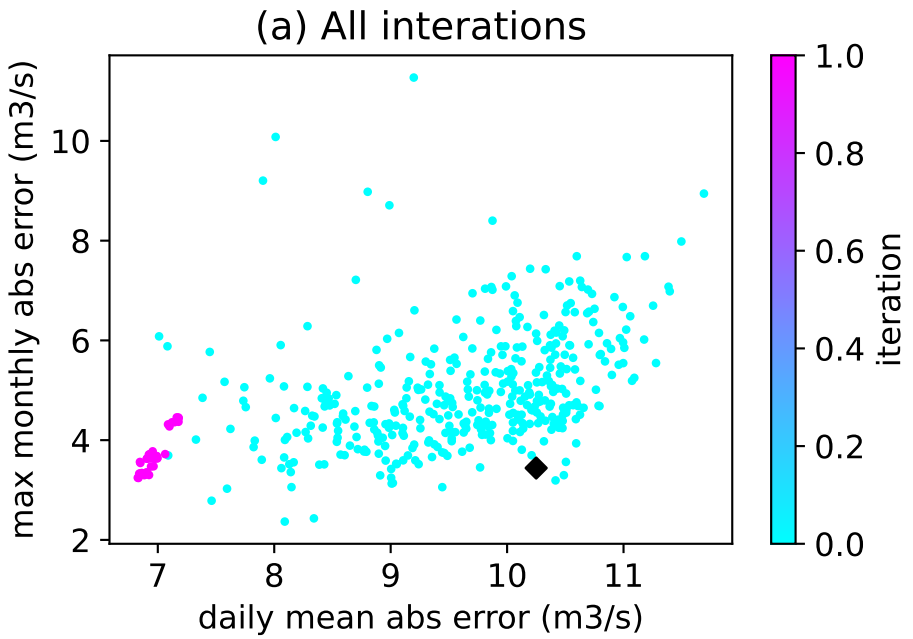
basinid: 542
hru_id: 12010000
lat_cen: 46.46081
lon_cen: -123.6762
AREA: 142.61 km2
elev_mean: 279.43 m

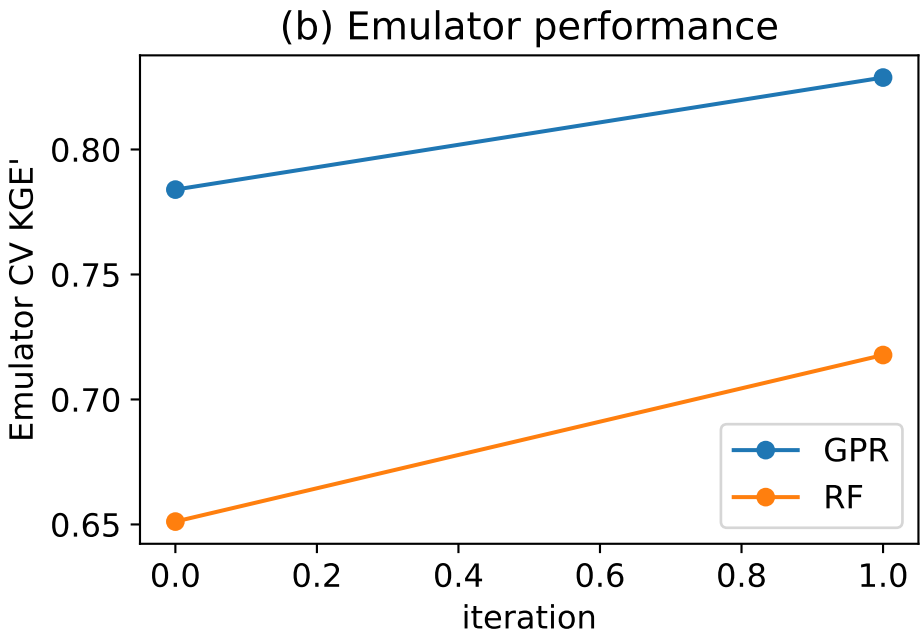


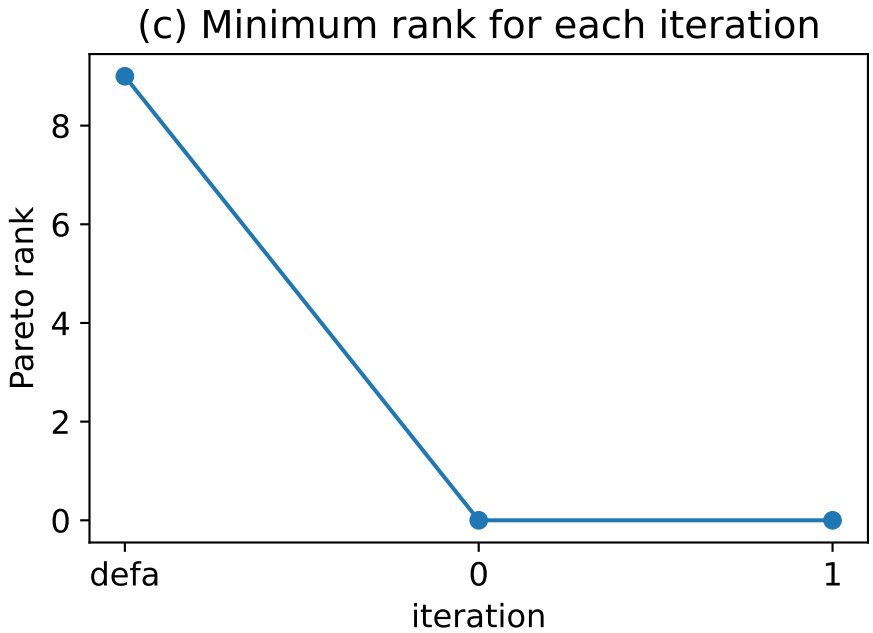




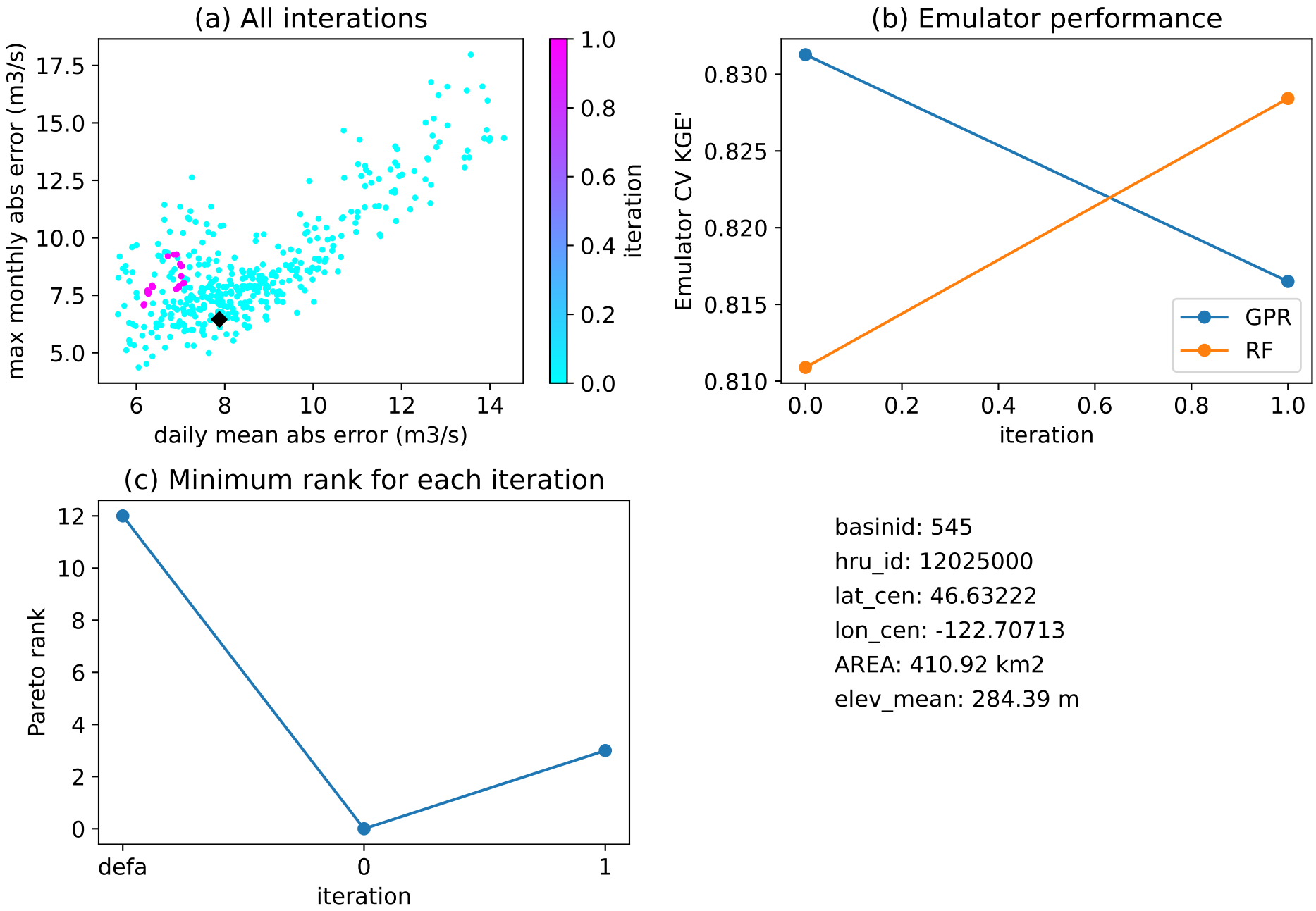
basinid: 543
hru_id: 12013500
lat_cen: 46.56312
lon_cen: -123.55386
AREA: 340.71 km2
elev_mean: 209.86 m

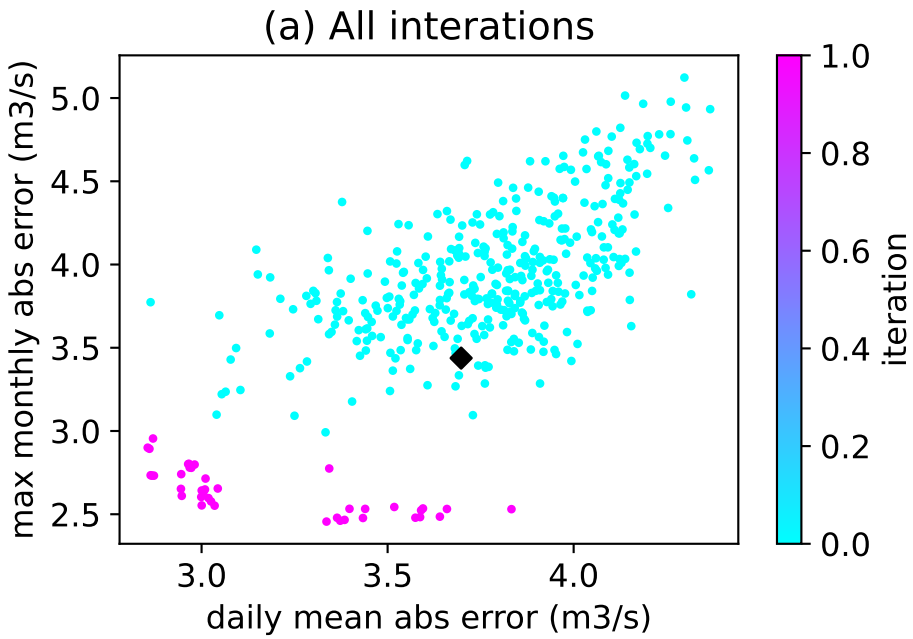


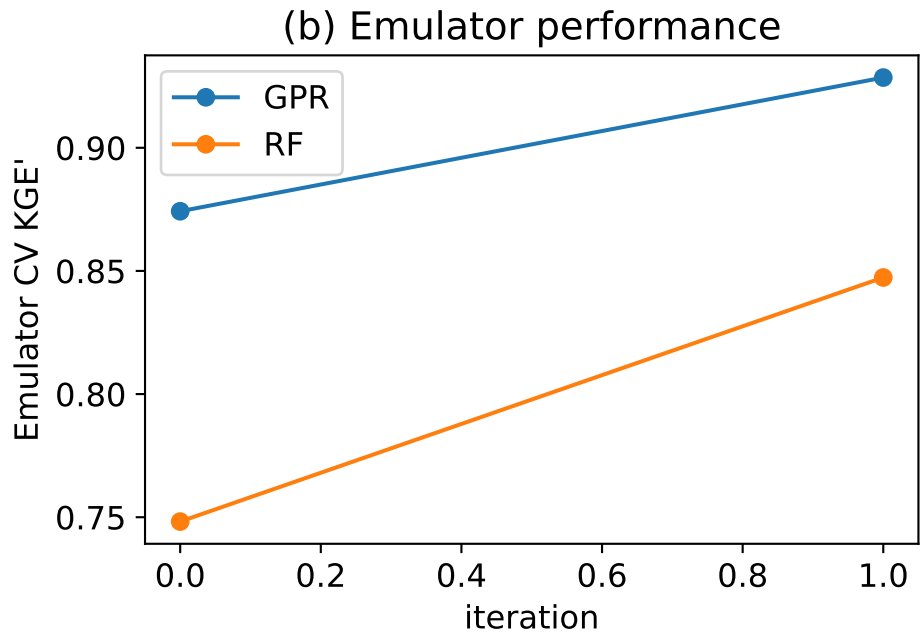


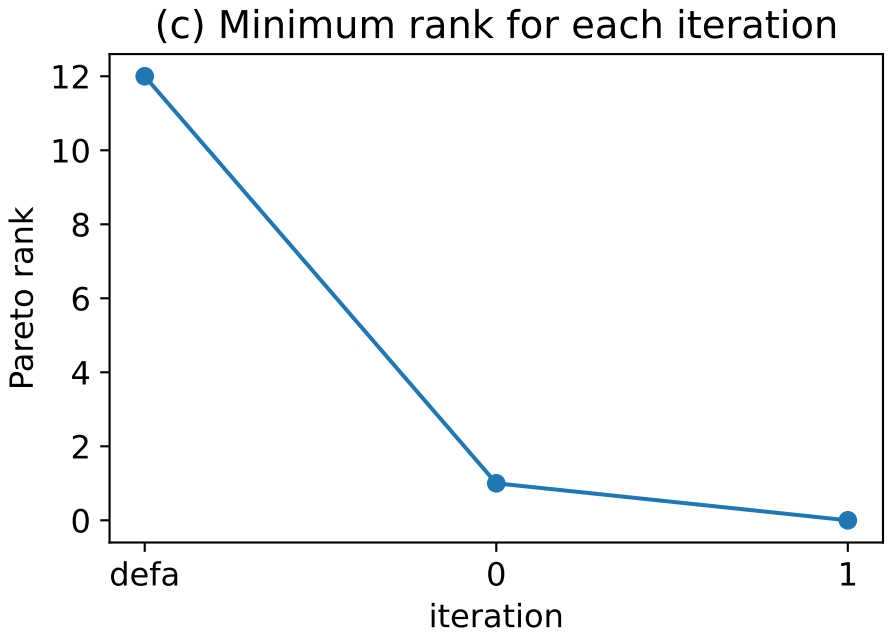


basinid: 544
hru_id: 12020000
lat_cen: 46.50506
lon_cen: -123.30769
AREA: 296.75 km2
elev_mean: 388.25 m

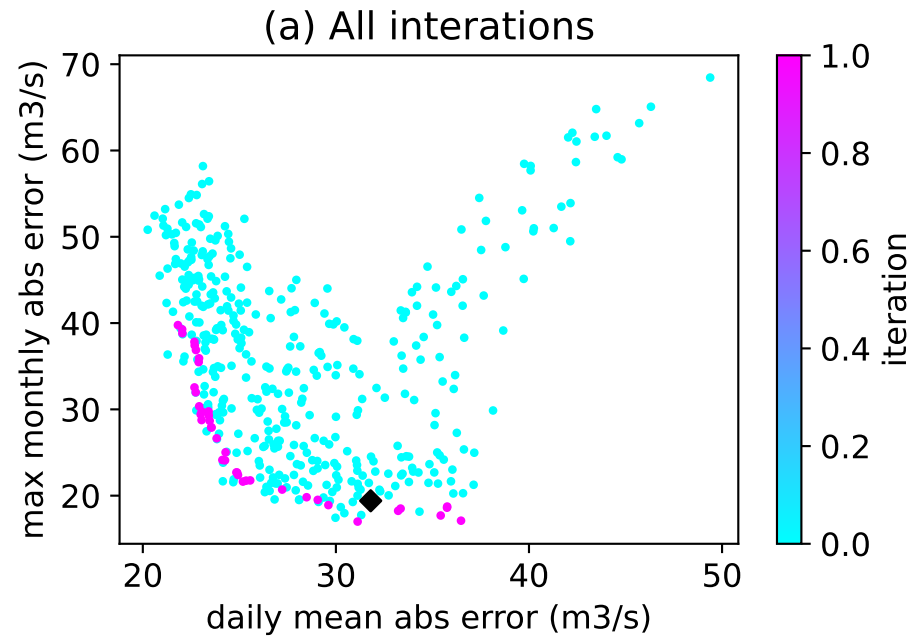

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 545
hru_id: 12025000
lat_cen: 46.63222
lon_cen: -122.70713
AREA: 410.92 km2
elev_mean: 284.39 m

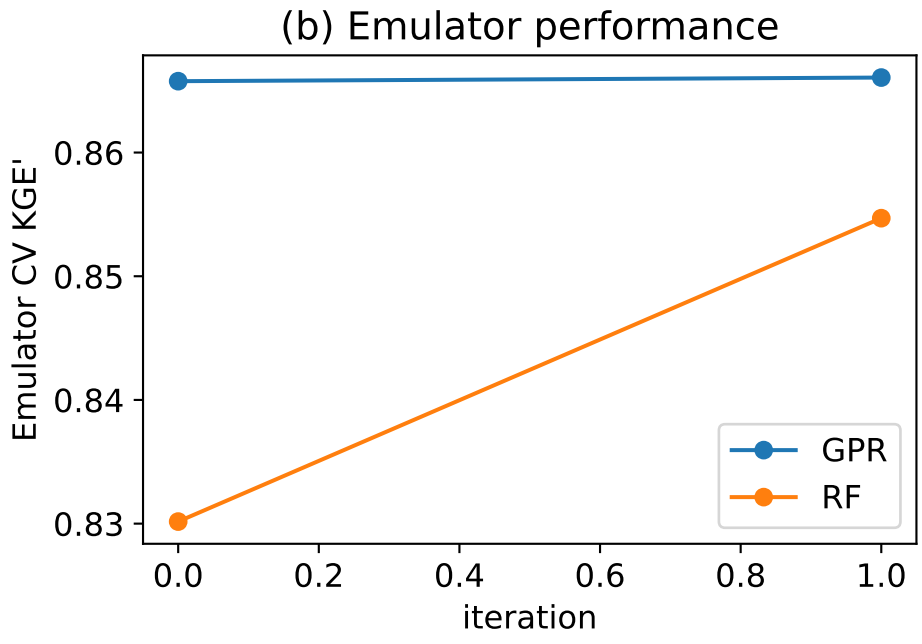


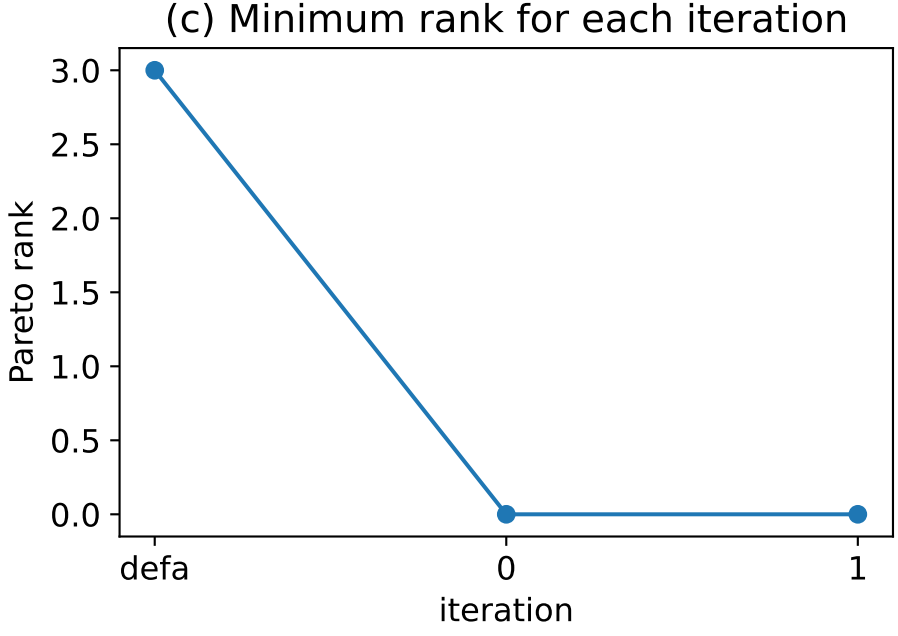




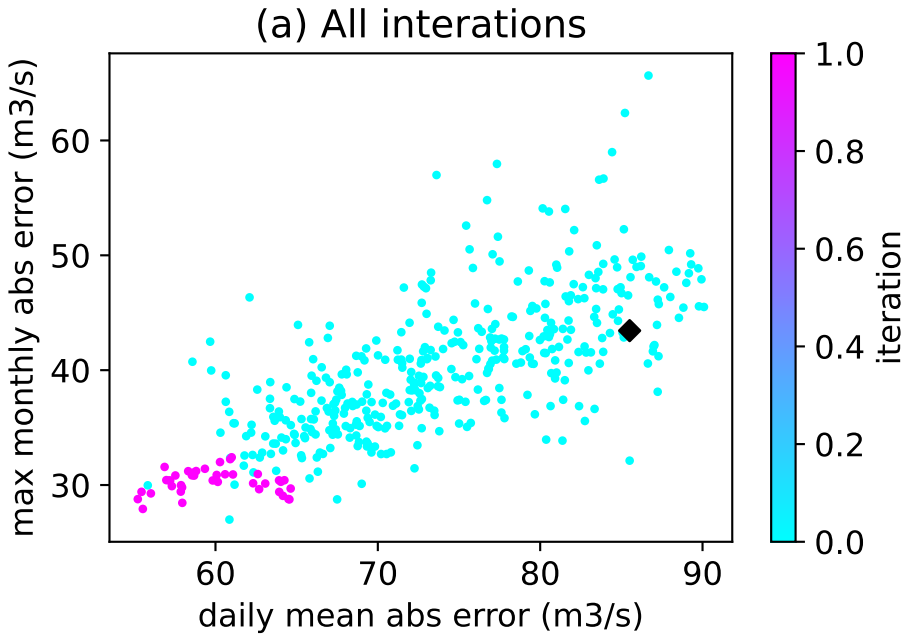
basinid: 546
hru_id: 12025700
lat_cen: 46.7305
lon_cen: -122.53443
AREA: 105.49 km2
elev_mean: 605.15 m

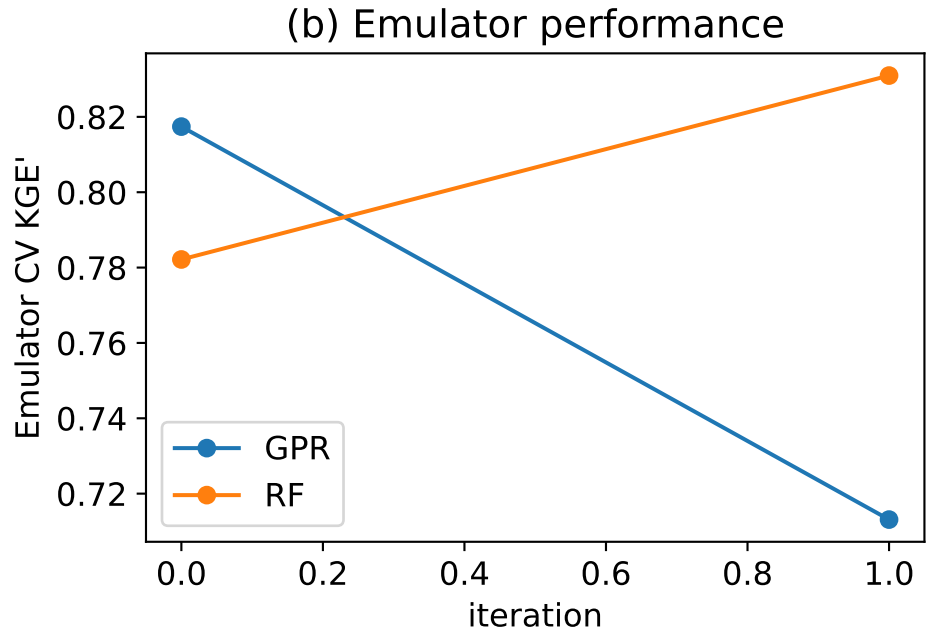


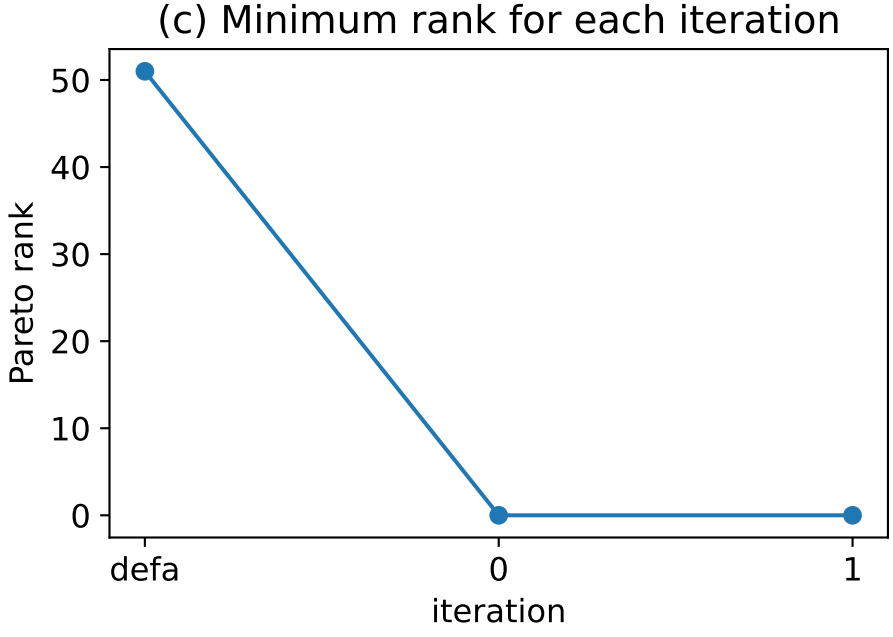




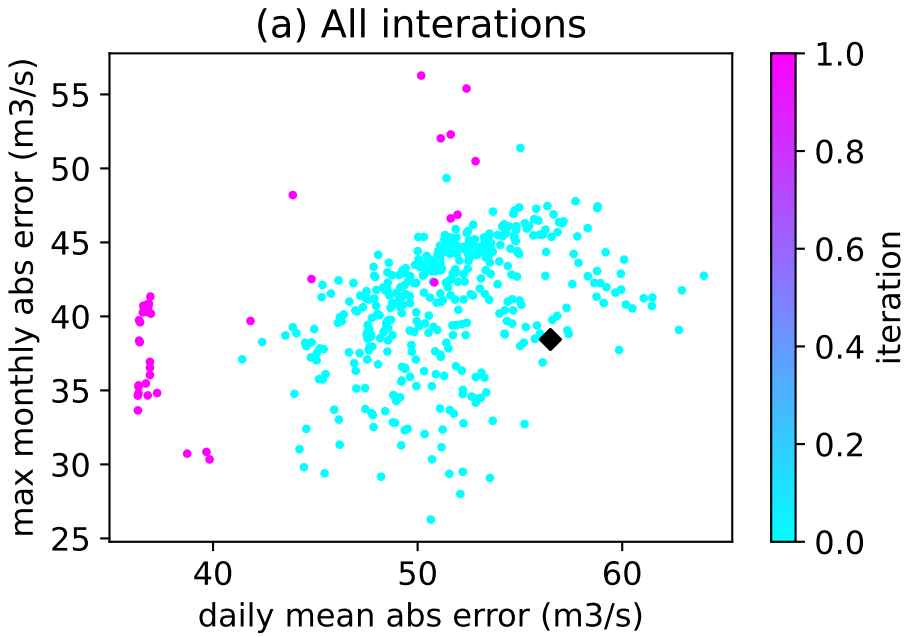
basinid: 547
hru_id: 12035000
lat_cen: 47.22589
lon_cen: -123.46073
AREA: 769.00 km2
elev_mean: 225.66 m

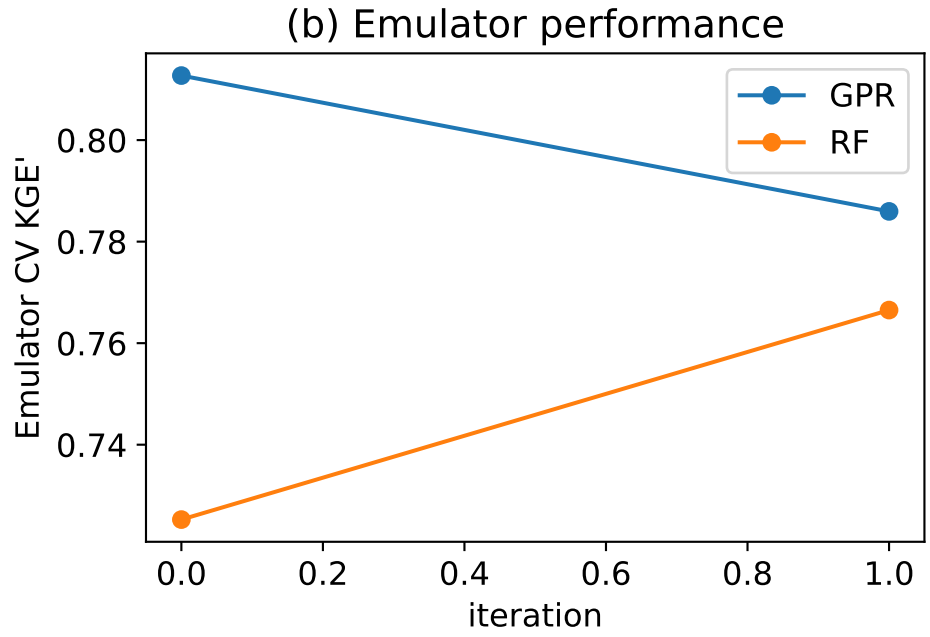


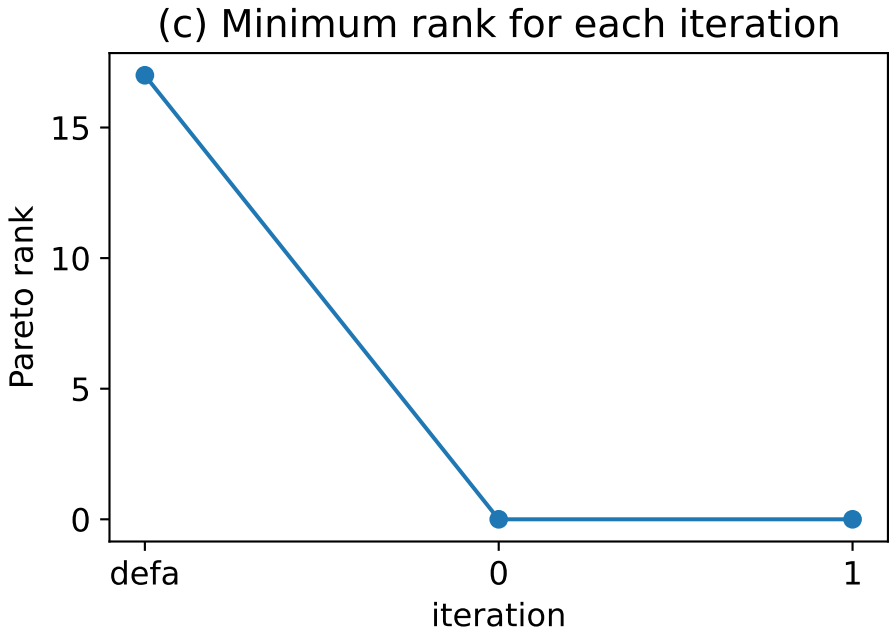




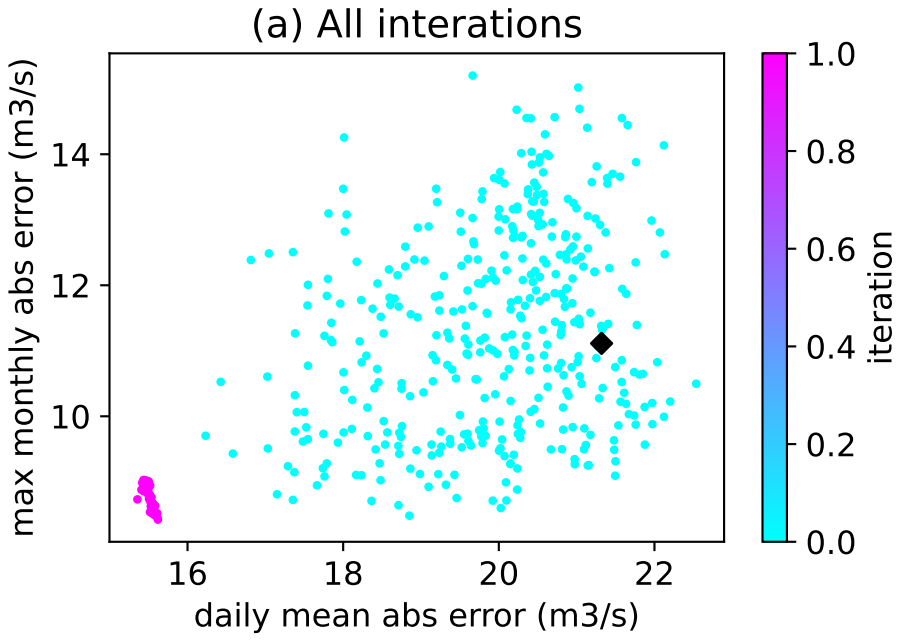
basinid: 548
hru_id: 12040500
lat_cen: 47.64279
lon_cen: -124.00019
AREA: 1155.73 km2
elev_mean: 478.89 m

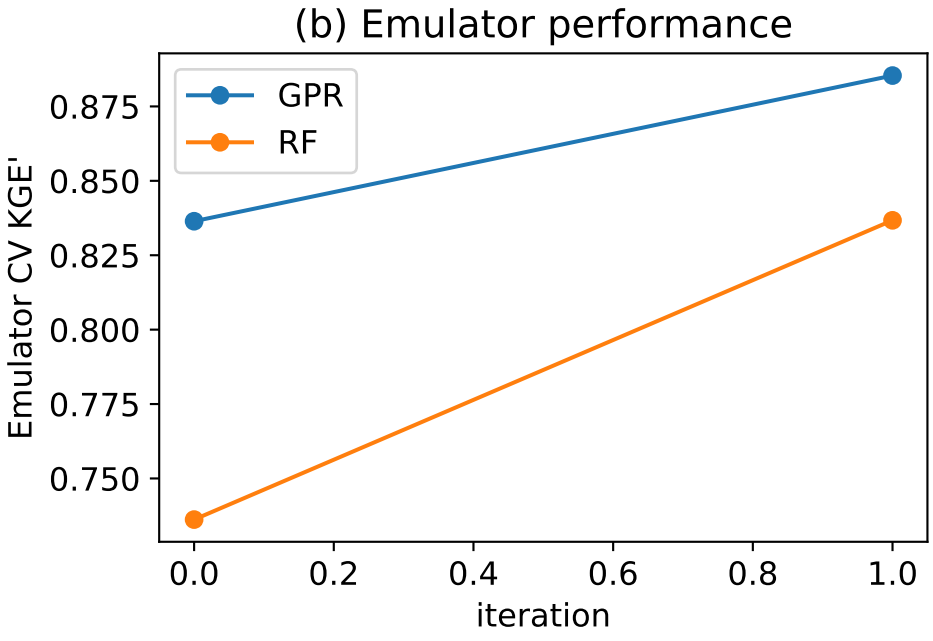


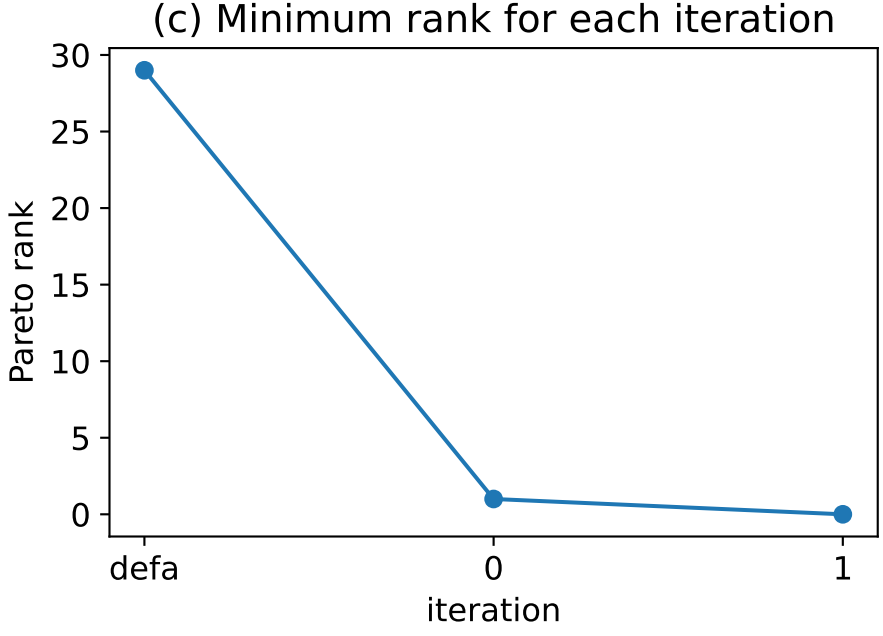




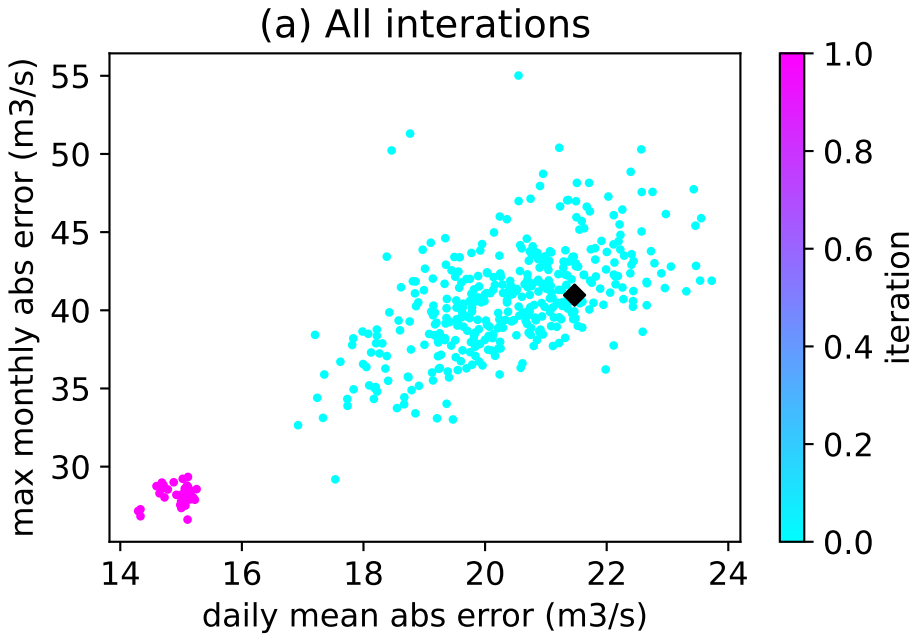
basinid: 549
hru_id: 12041200
lat_cen: 47.81638
lon_cen: -123.90702
AREA: 662.49 km2
elev_mean: 733.10 m

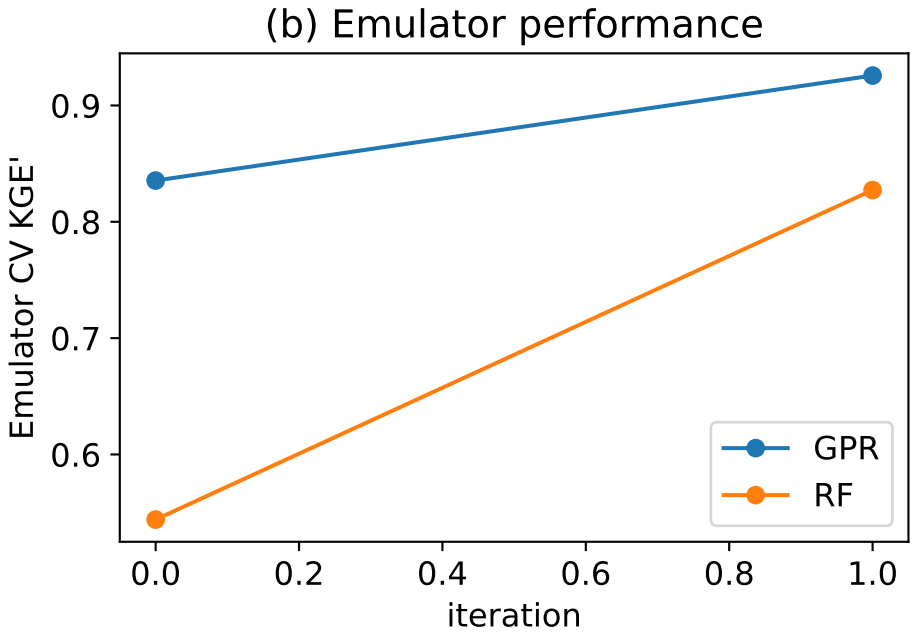


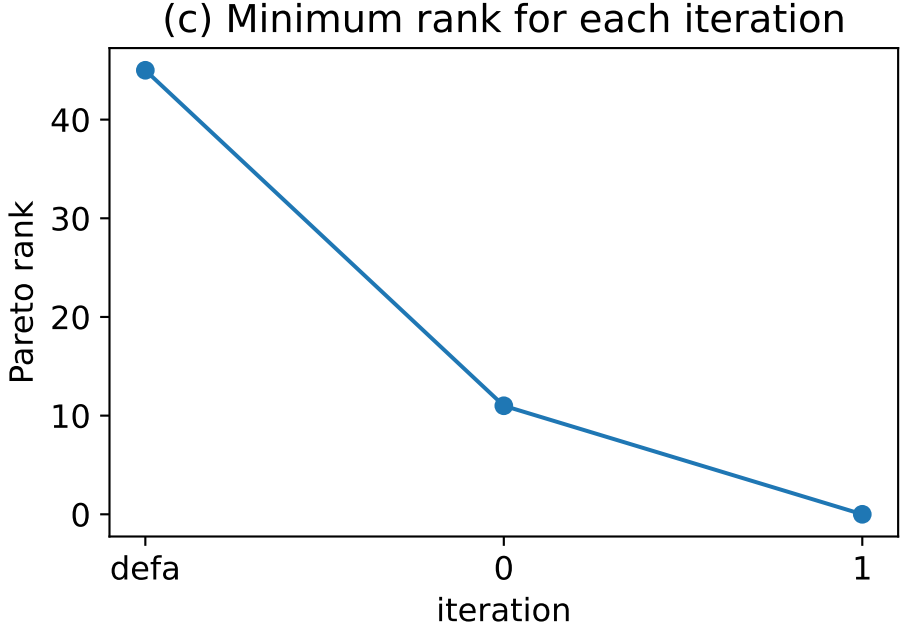




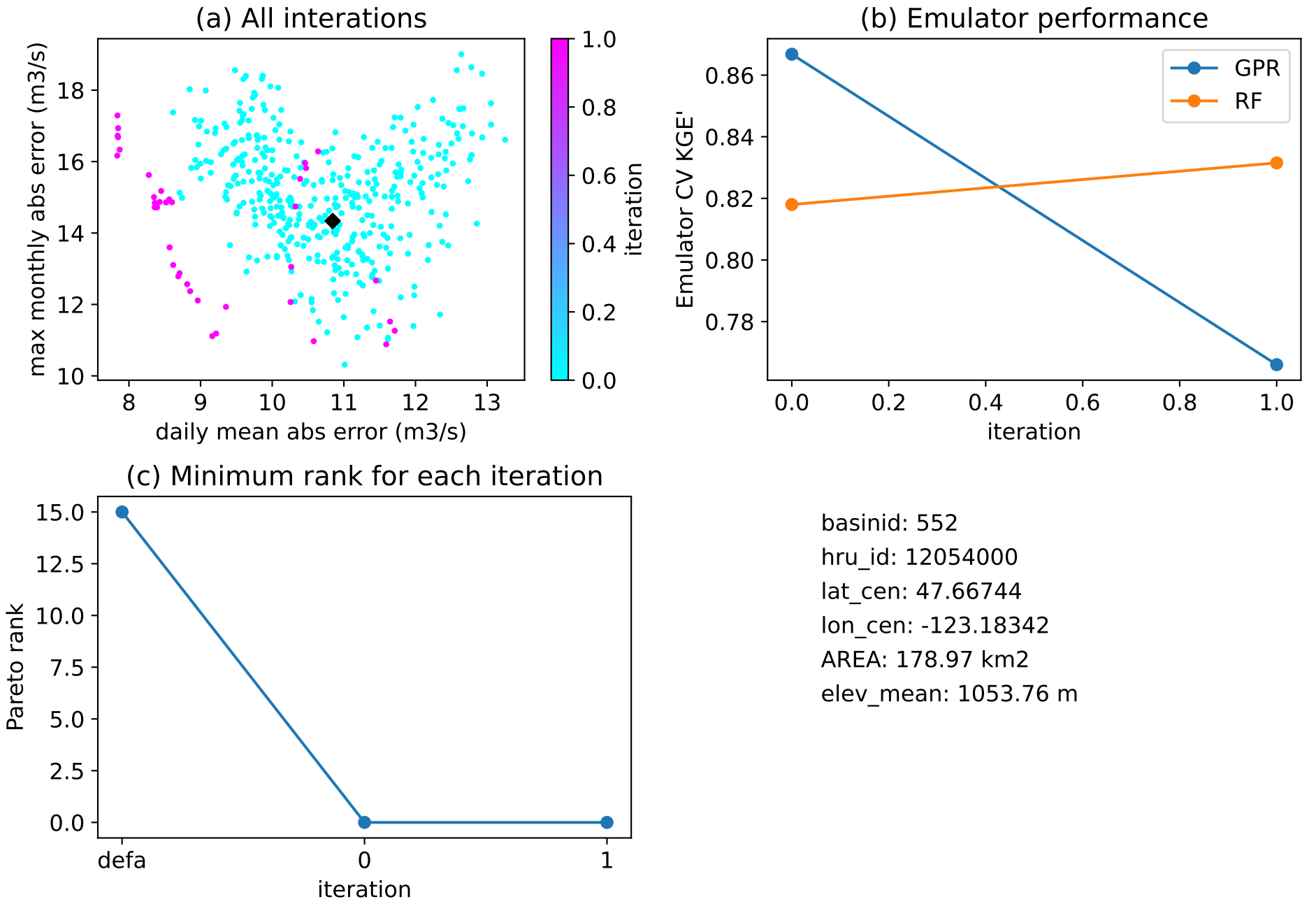
basinid: 550
hru_id: 12043000
lat_cen: 47.97022
lon_cen: -124.17418
AREA: 348.41 km2
elev_mean: 440.04 m

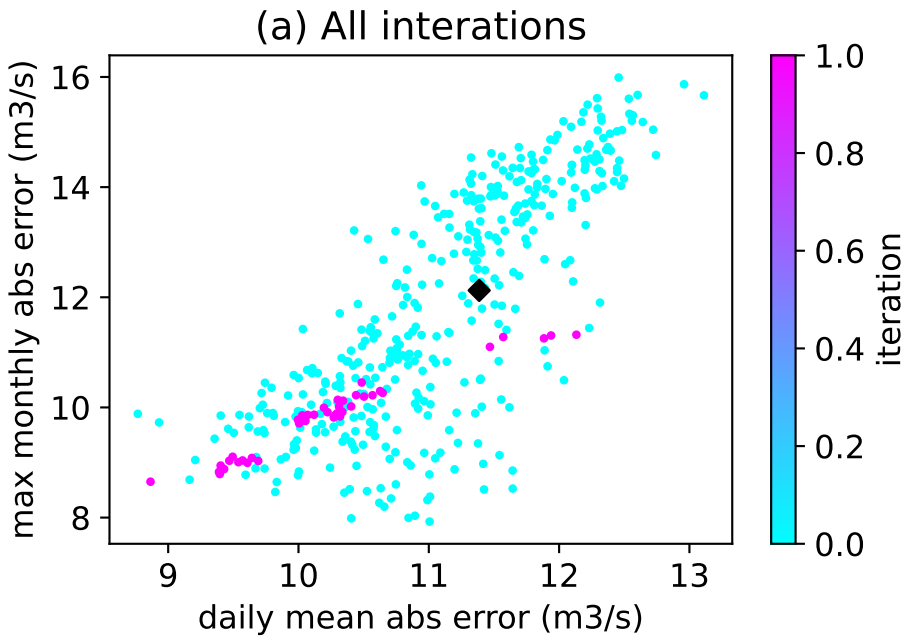


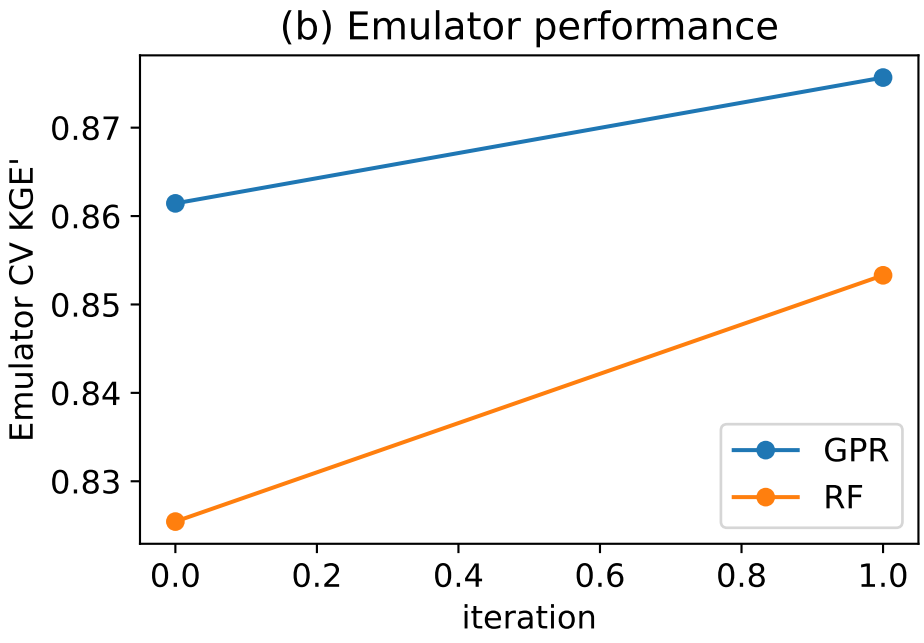


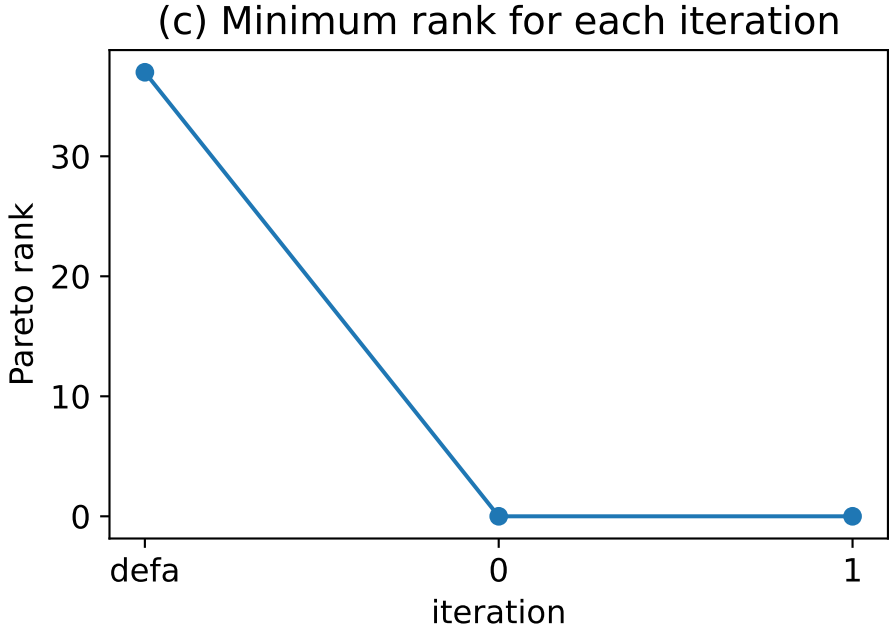


basinid: 551
hru_id: 12048000
lat_cen: 47.89068
lon_cen: -123.1907
AREA: 408.24 km2
elev_mean: 1269.55 m

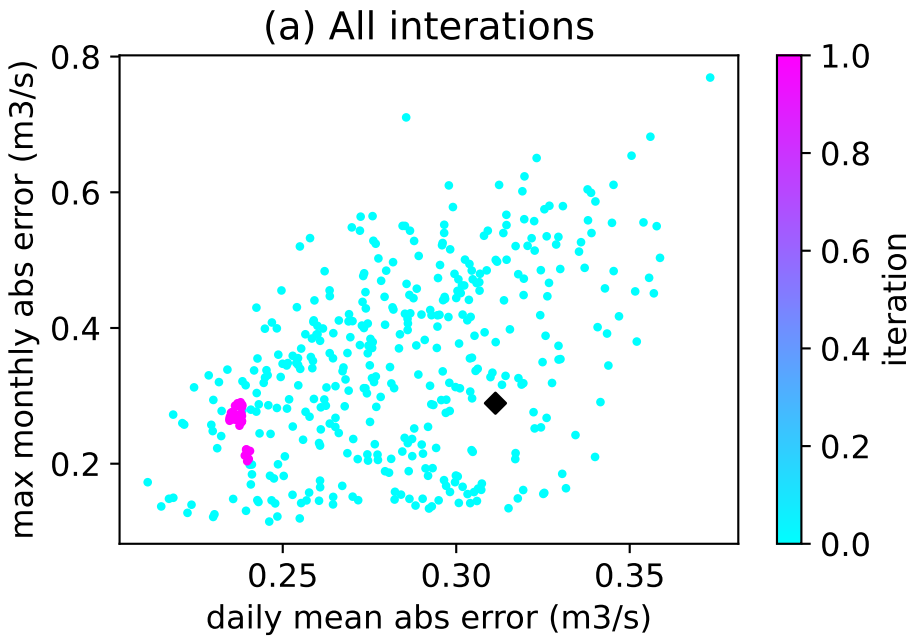

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 552
hru_id: 12054000
lat_cen: 47.66744
lon_cen: -123.18342
AREA: 178.97 km2
elev_mean: 1053.76 m

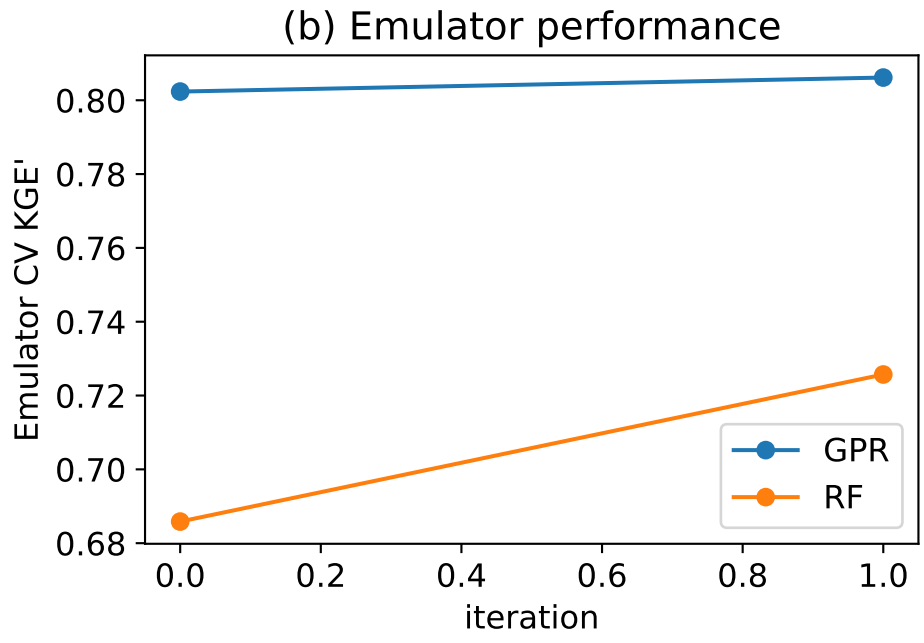


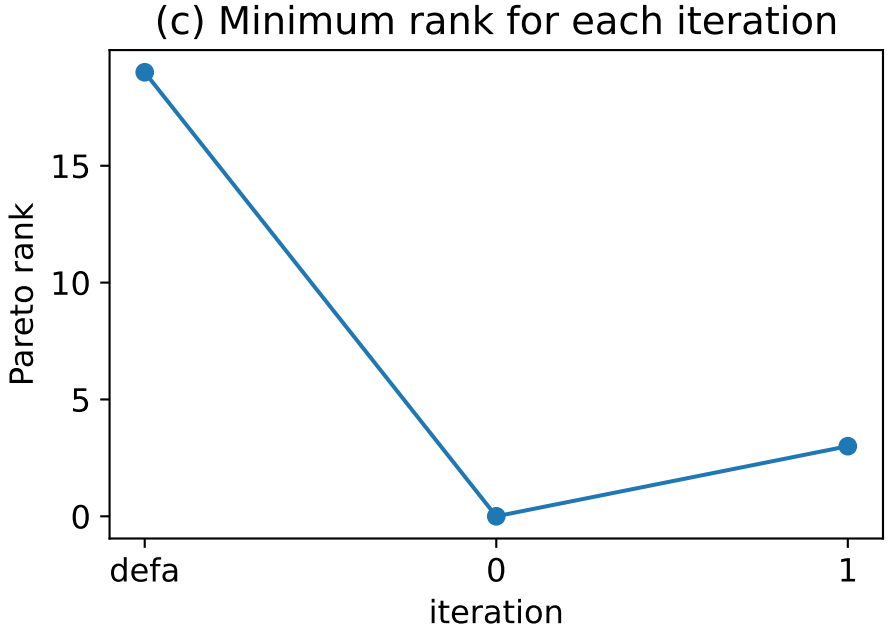




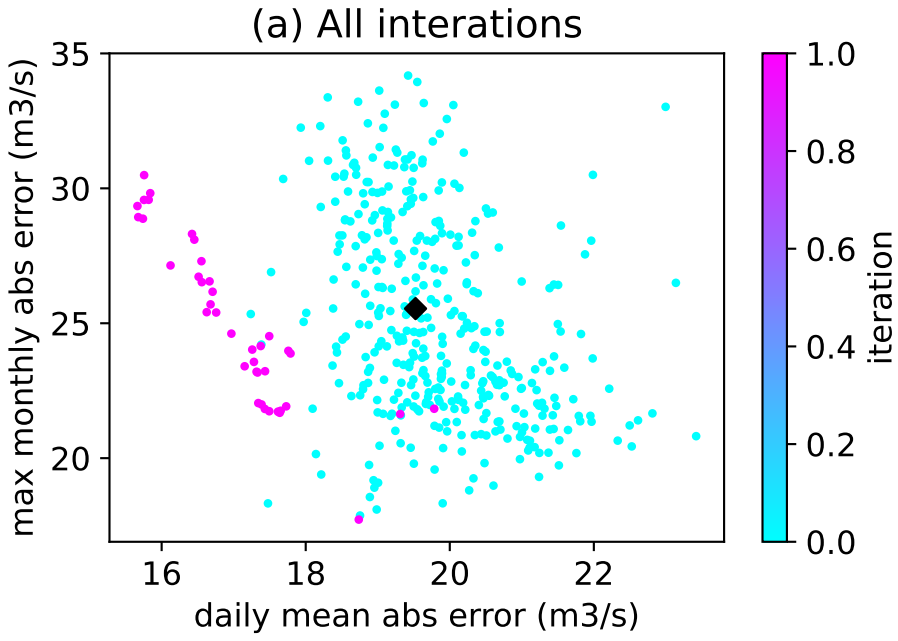
basinid: 553
hru_id: 12056500
lat_cen: 47.55524
lon_cen: -123.37884
AREA: 147.55 km2
elev_mean: 1004.34 m

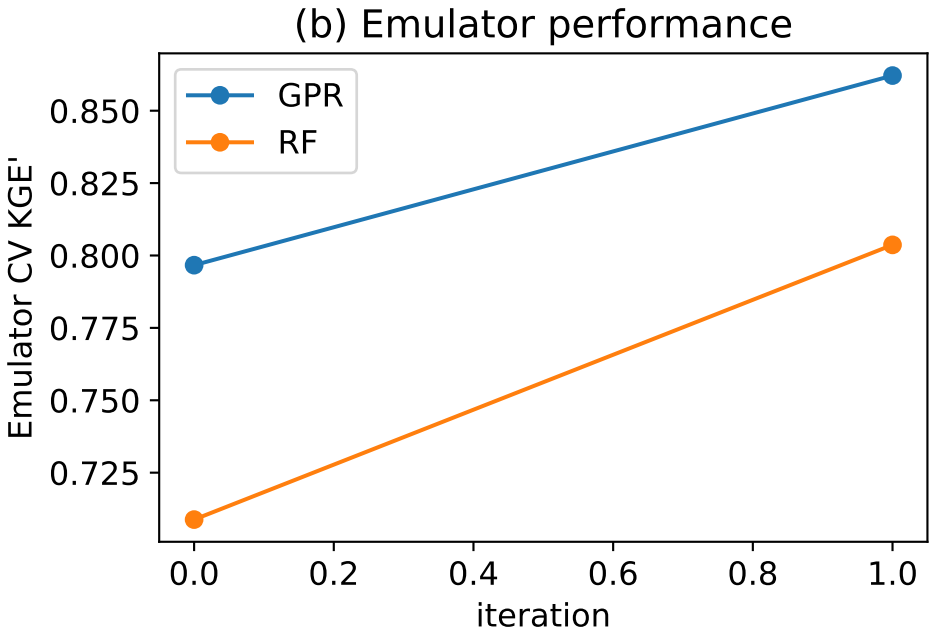


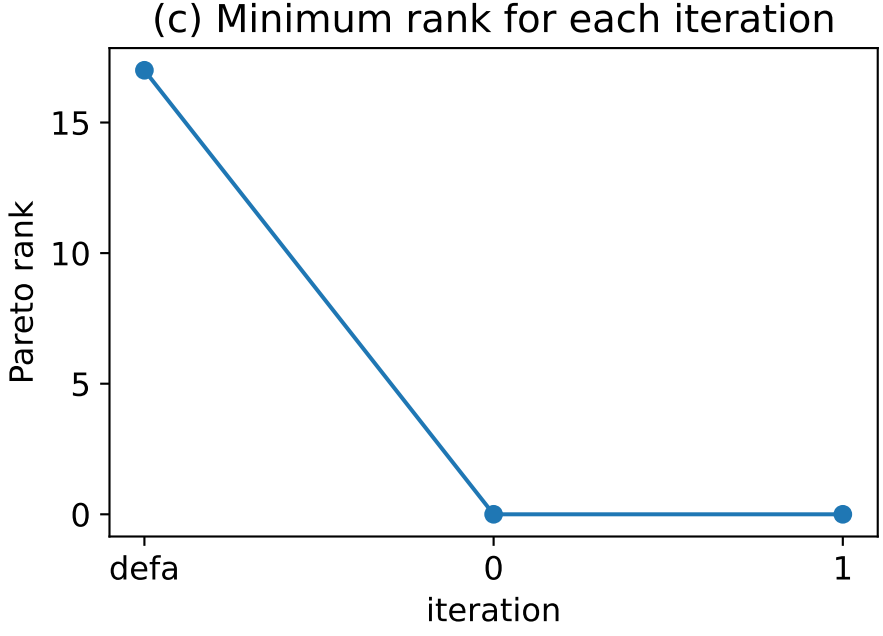




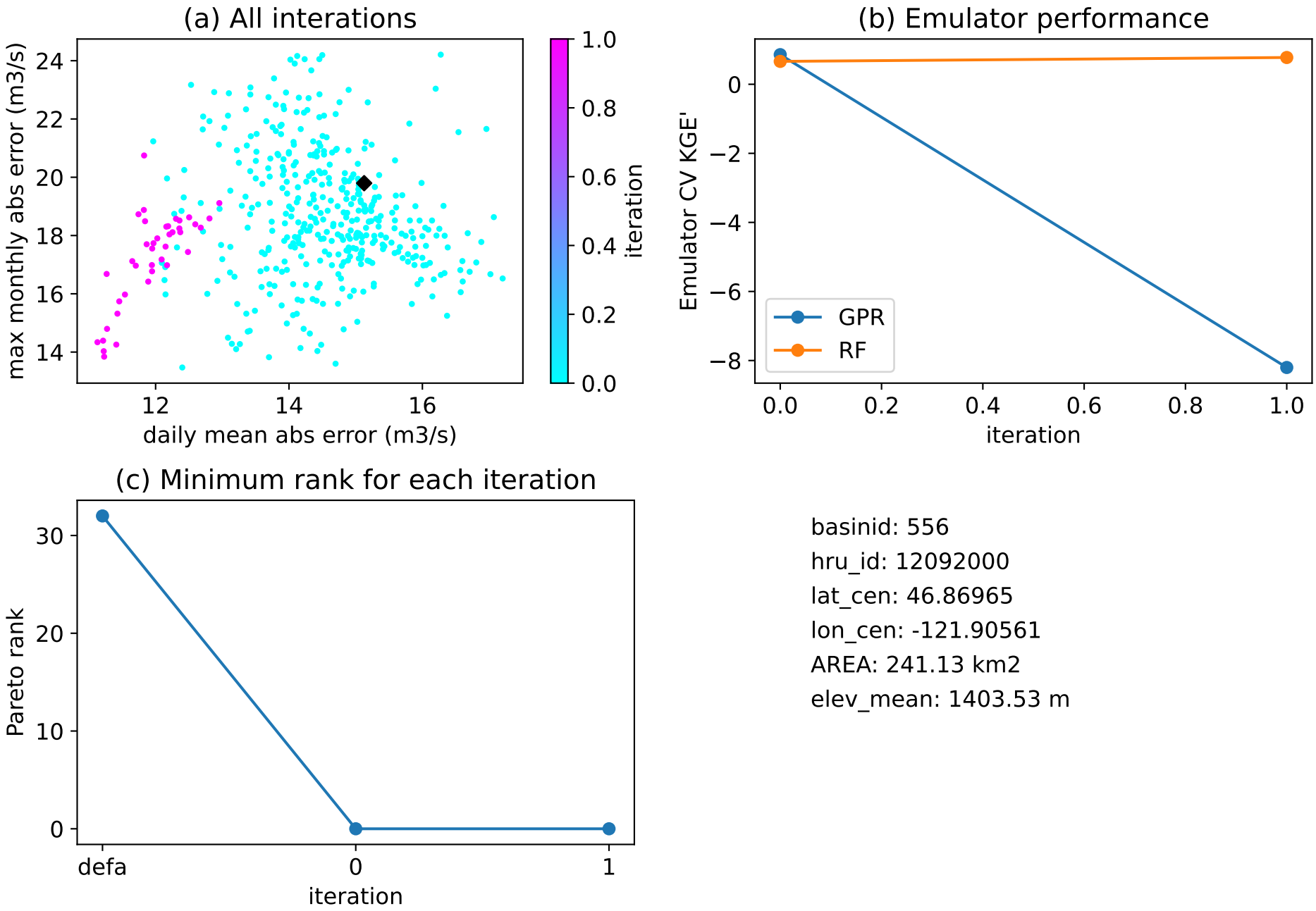
basinid: 554
hru_id: 12073500
lat_cen: 47.42608
lon_cen: -122.70479
AREA: 15.82 km2
elev_mean: 101.14 m

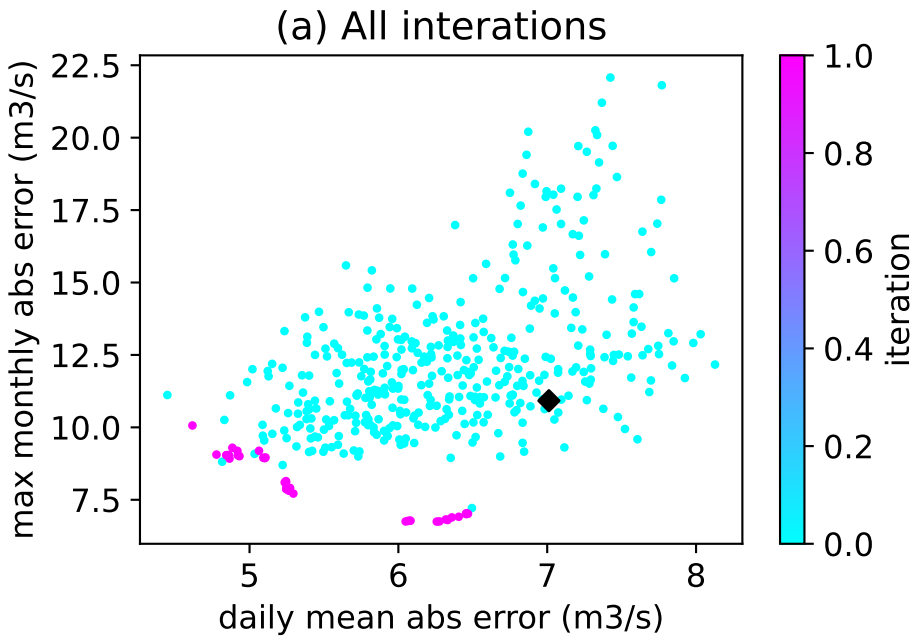


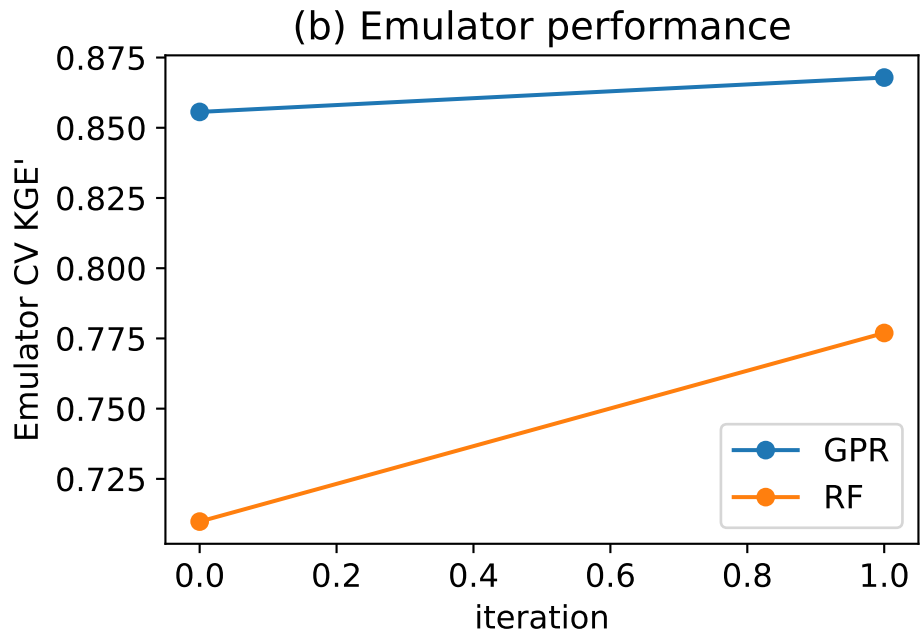


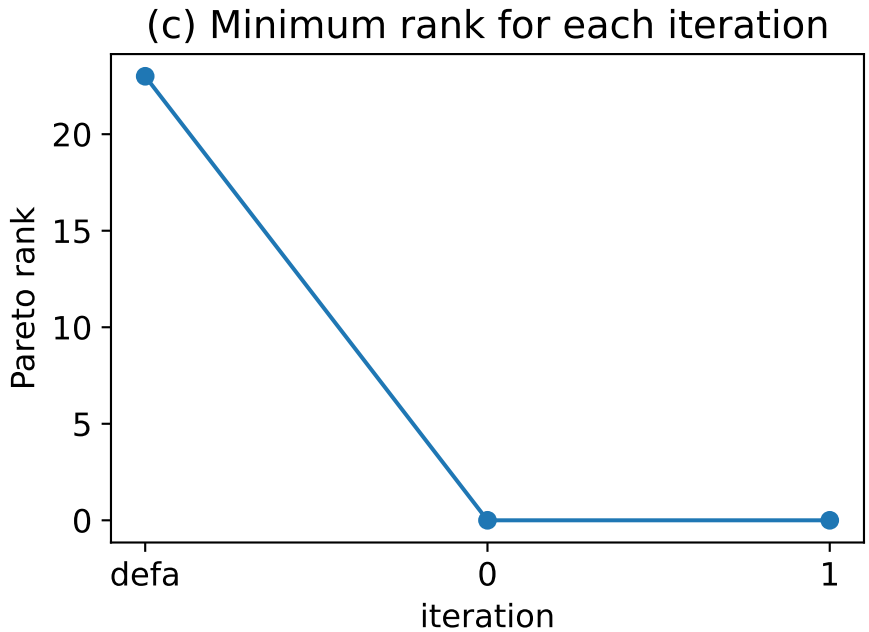


basinid: 555
hru_id: 12082500
lat_cen: 46.74625
lon_cen: -121.90131
AREA: 360.09 km2
elev_mean: 1155.83 m

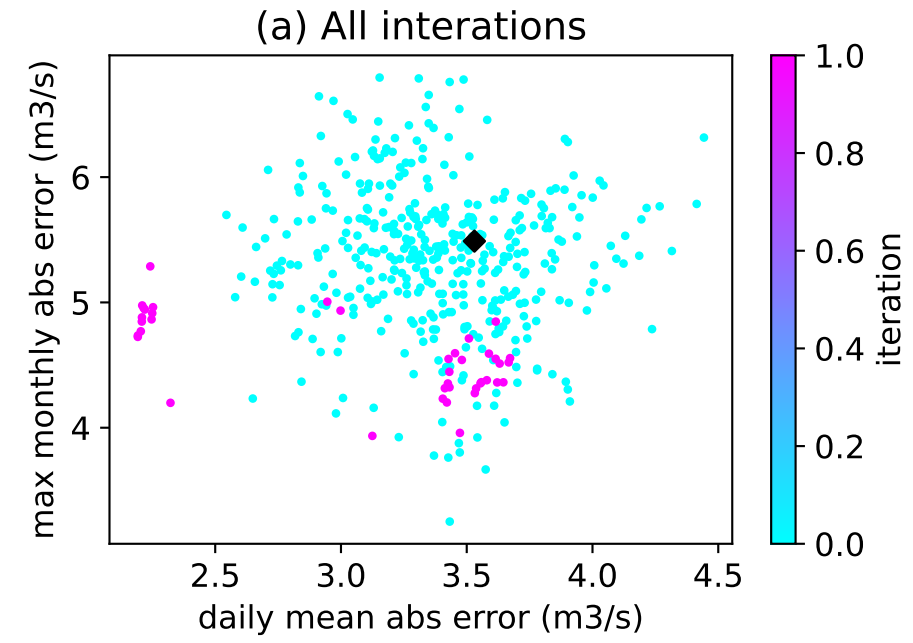

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 556
hru_id: 12092000
lat_cen: 46.86965
lon_cen: -121.90561
AREA: 241.13 km2
elev_mean: 1403.53 m

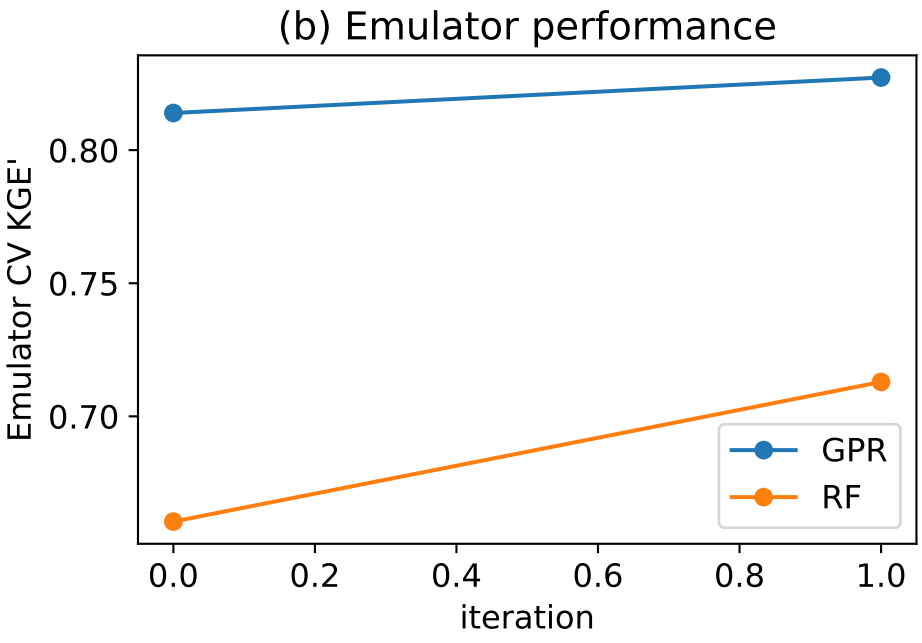


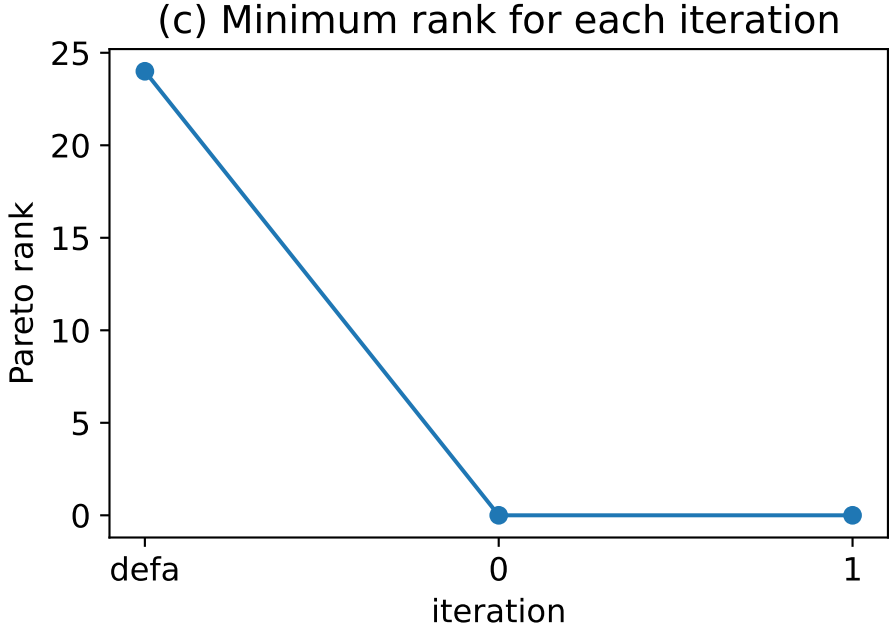




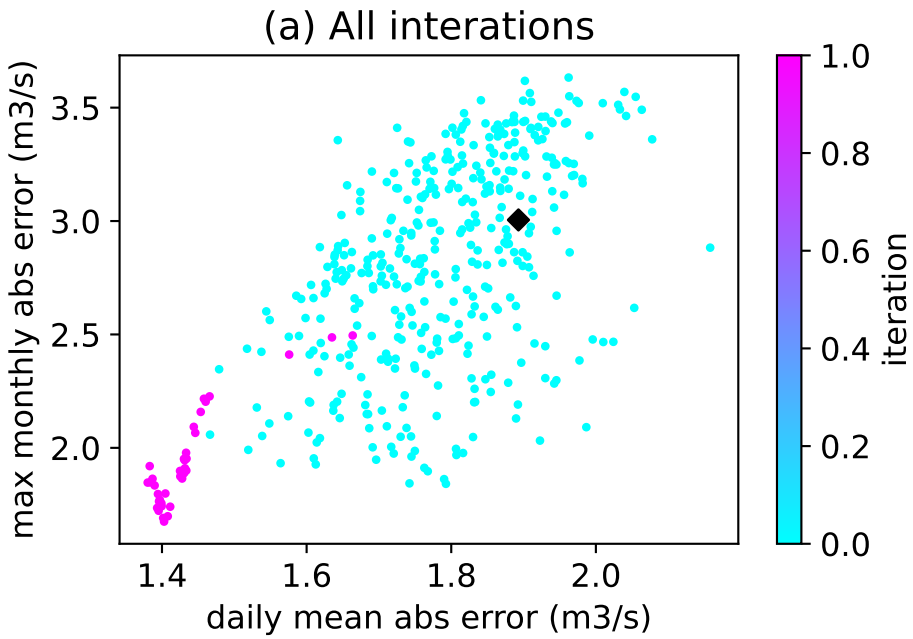
basinid: 557
hru_id: 12095000
lat_cen: 47.08944
lon_cen: -121.98308
AREA: 233.35 km2
elev_mean: 622.77 m

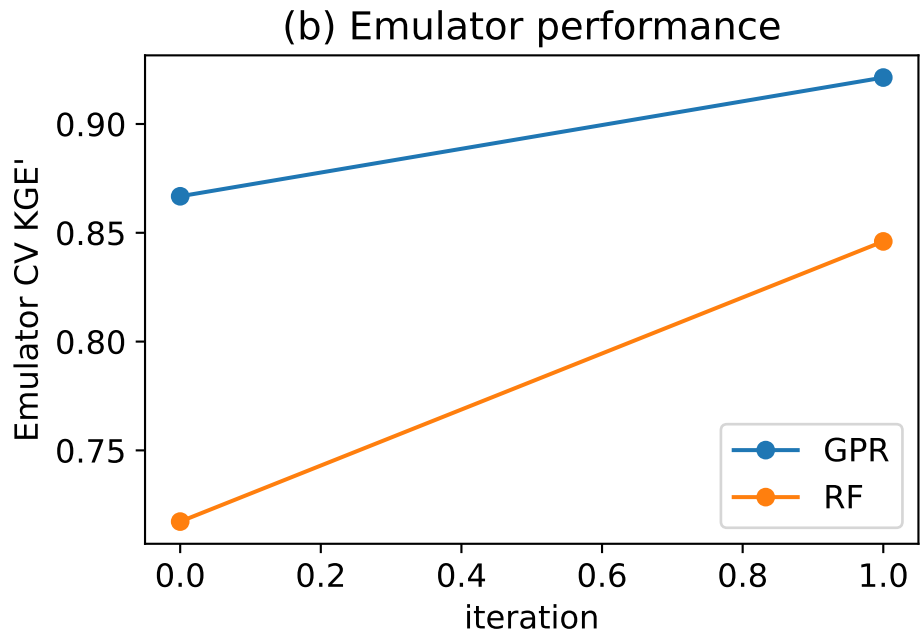


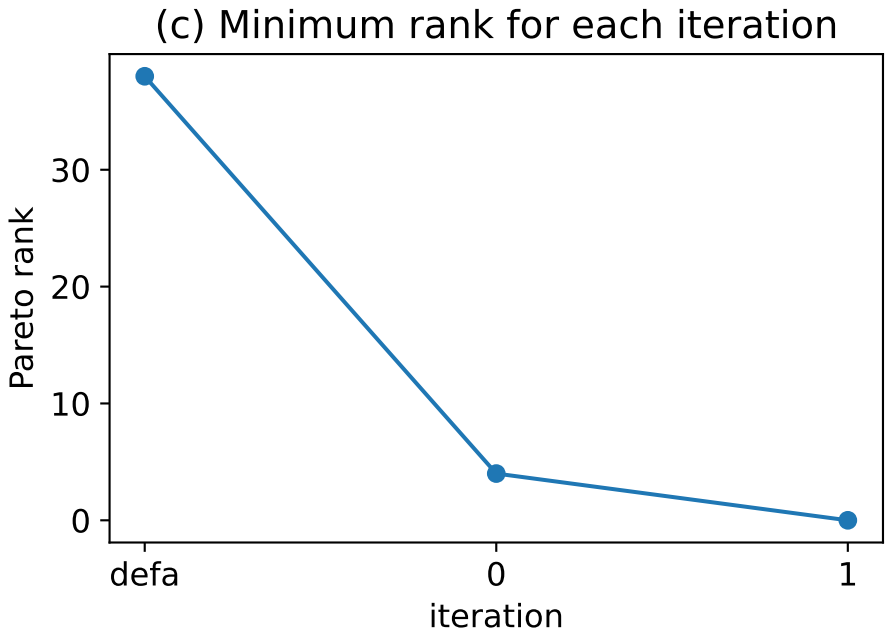




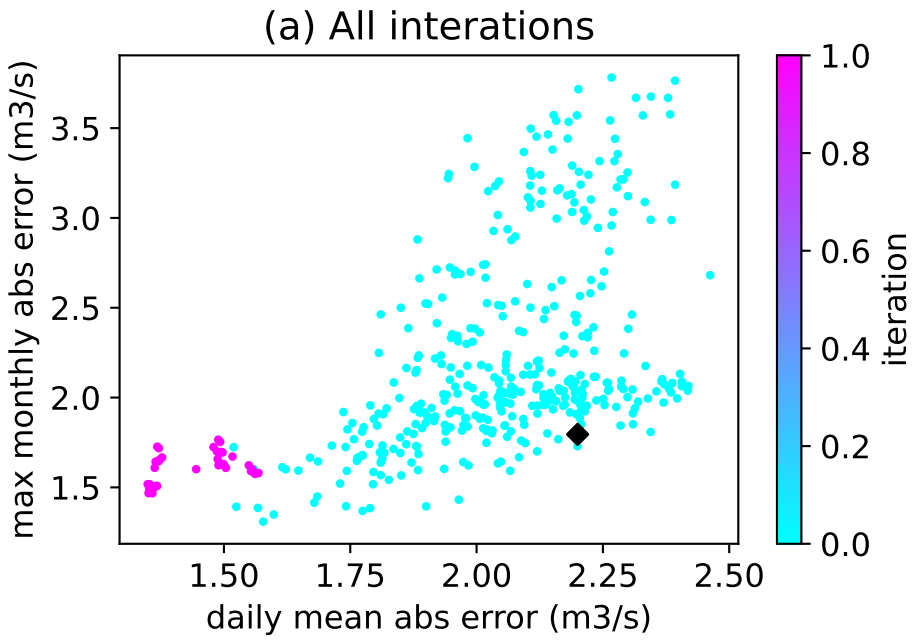
basinid: 558
hru_id: 12114500
lat_cen: 47.31609
lon_cen: -121.49688
AREA: 66.57 km2
elev_mean: 1078.33 m

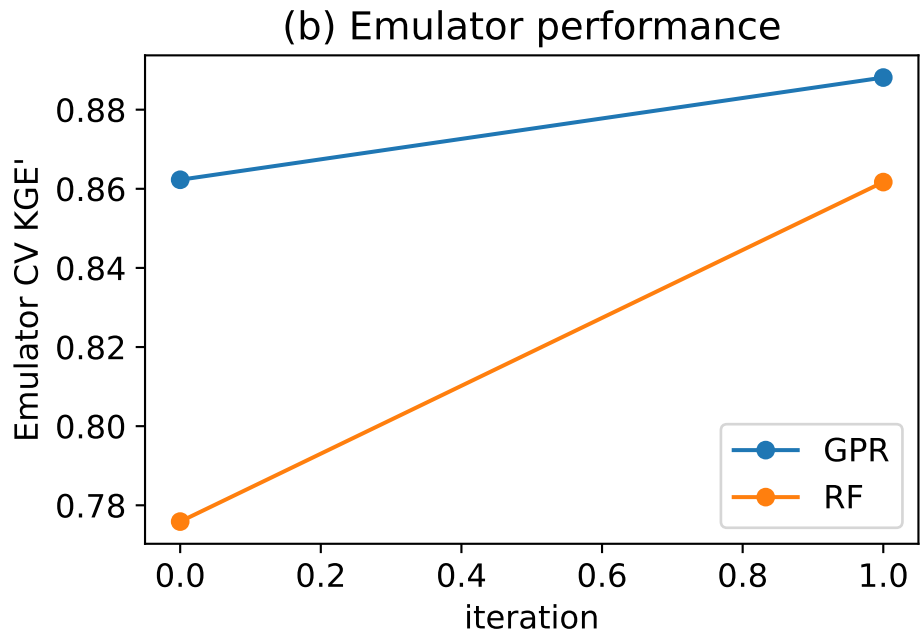


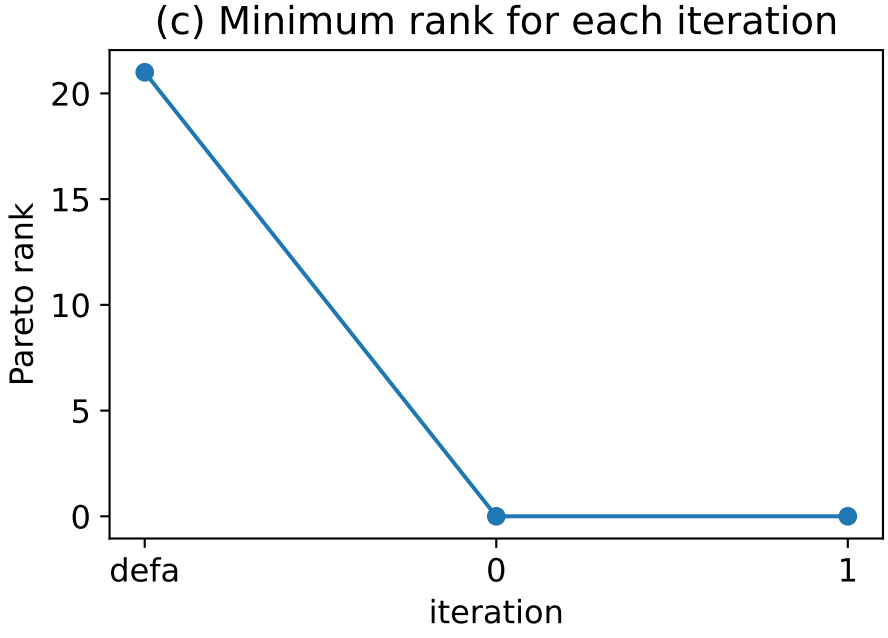




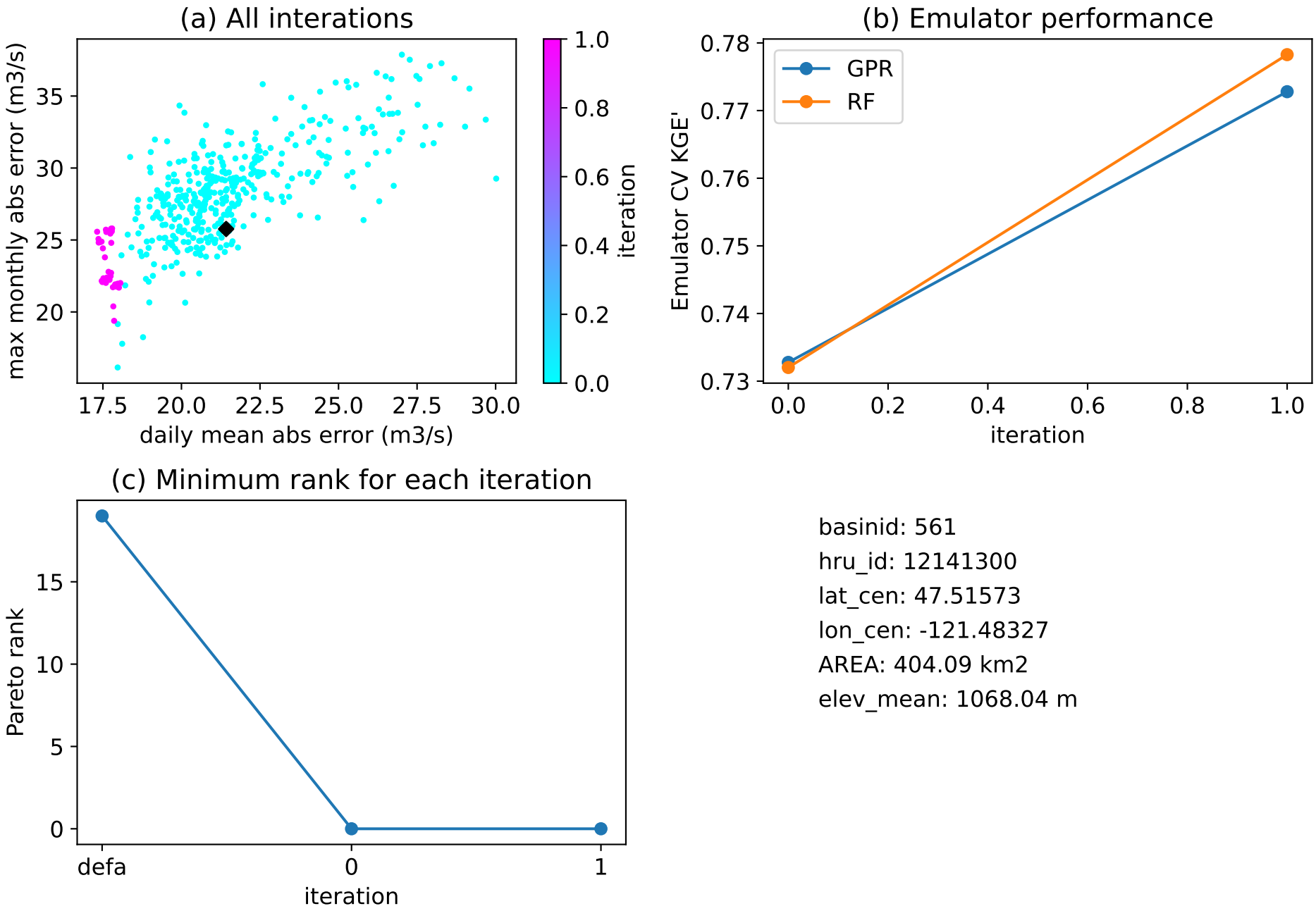
basinid: 559
hru_id: 12115500
lat_cen: 47.3286
lon_cen: -121.64408
AREA: 43.34 km2
elev_mean: 963.47 m

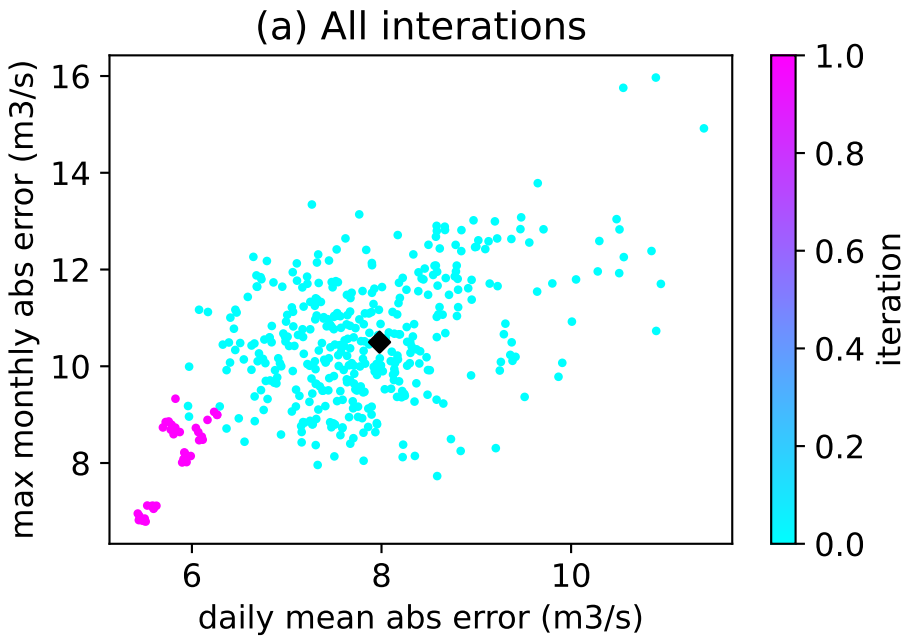


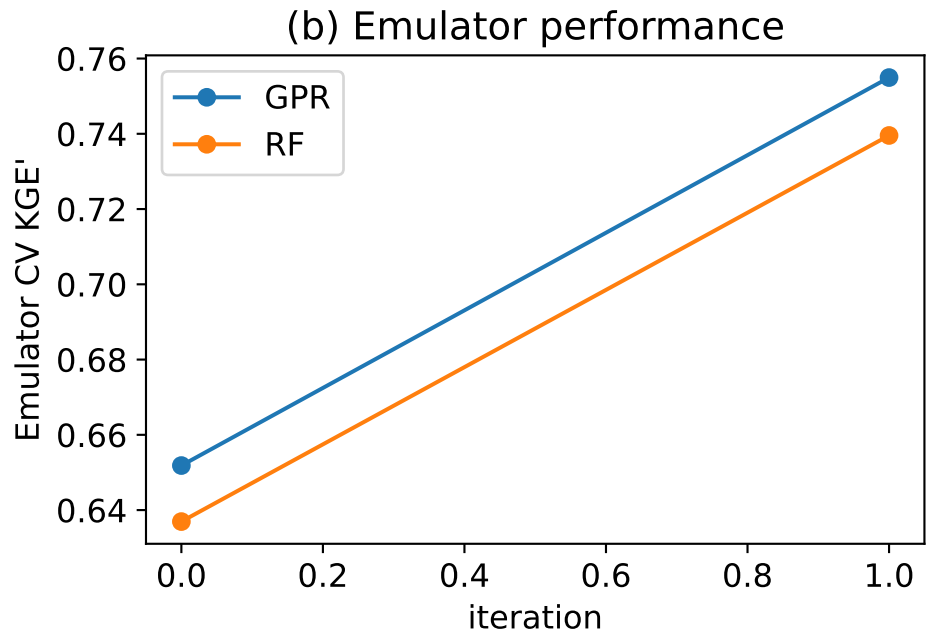


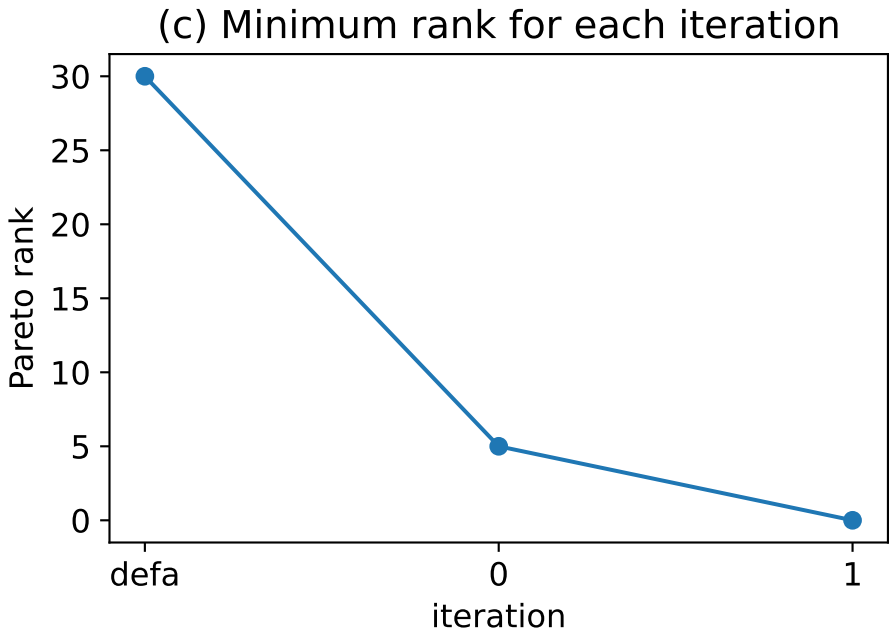


basinid: 560
hru_id: 12117000
lat_cen: 47.36518
lon_cen: -121.78525
AREA: 45.22 km2
elev_mean: 661.26 m

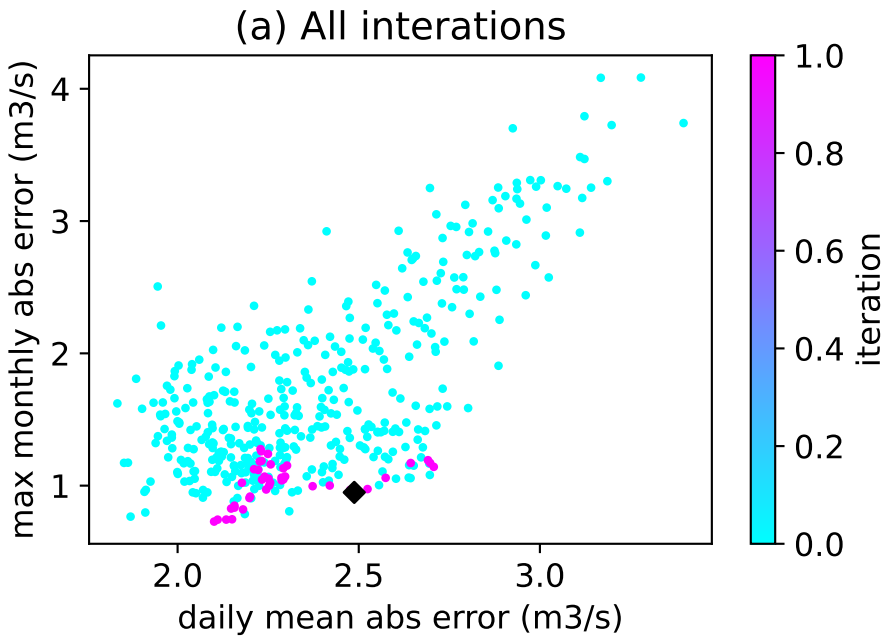

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 561
hru_id: 12141300
lat_cen: 47.51573
lon_cen: -121.48327
AREA: 404.09 km2
elev_mean: 1068.04 m

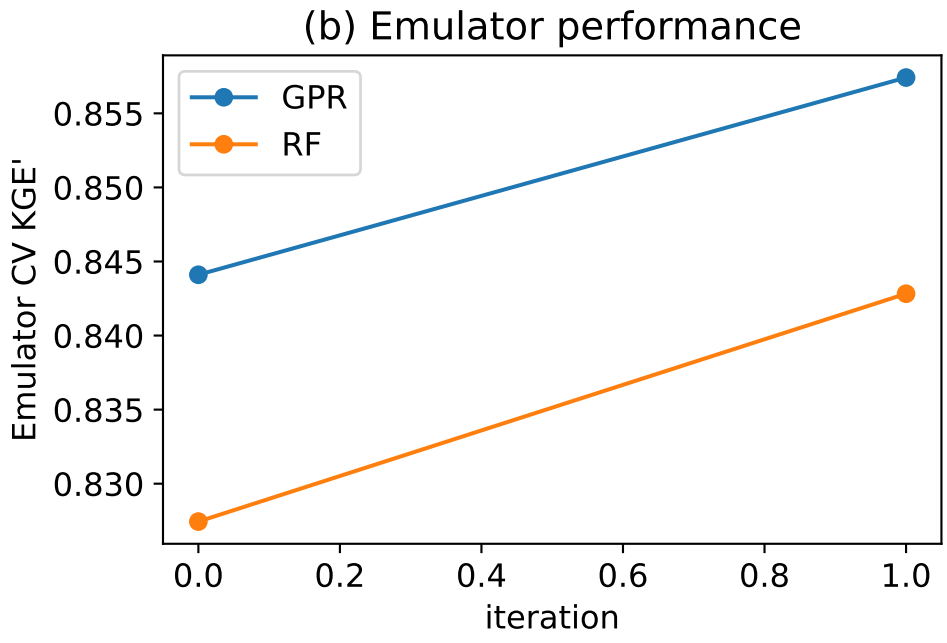


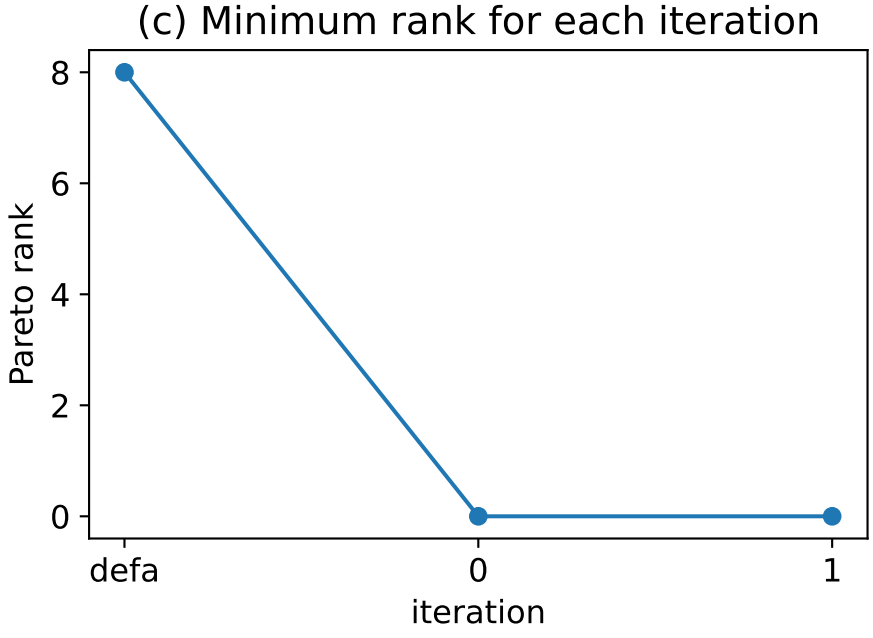




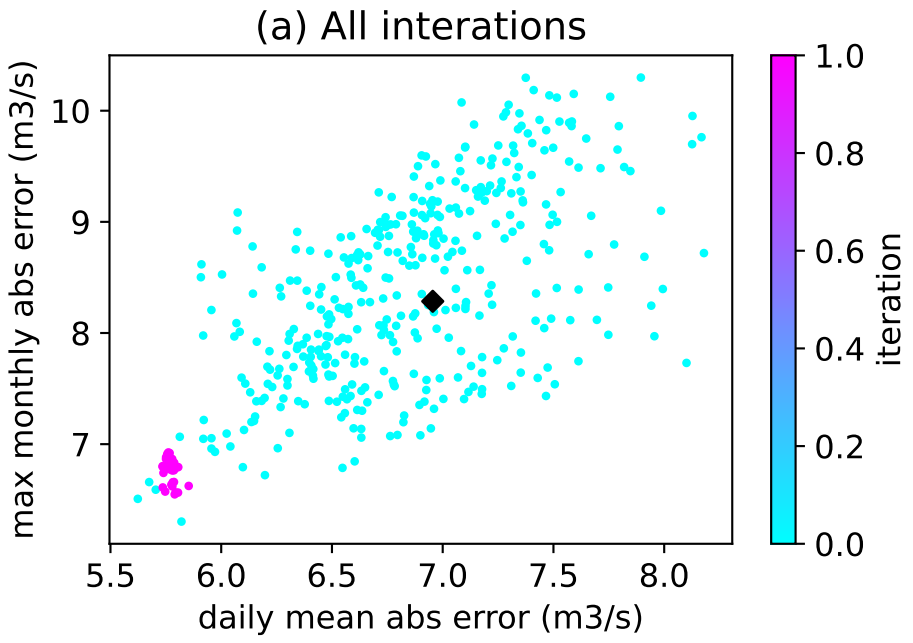
basinid: 562
hru_id: 12143600
lat_cen: 47.41115
lon_cen: -121.54207
AREA: 165.05 km2
elev_mean: 993.26 m

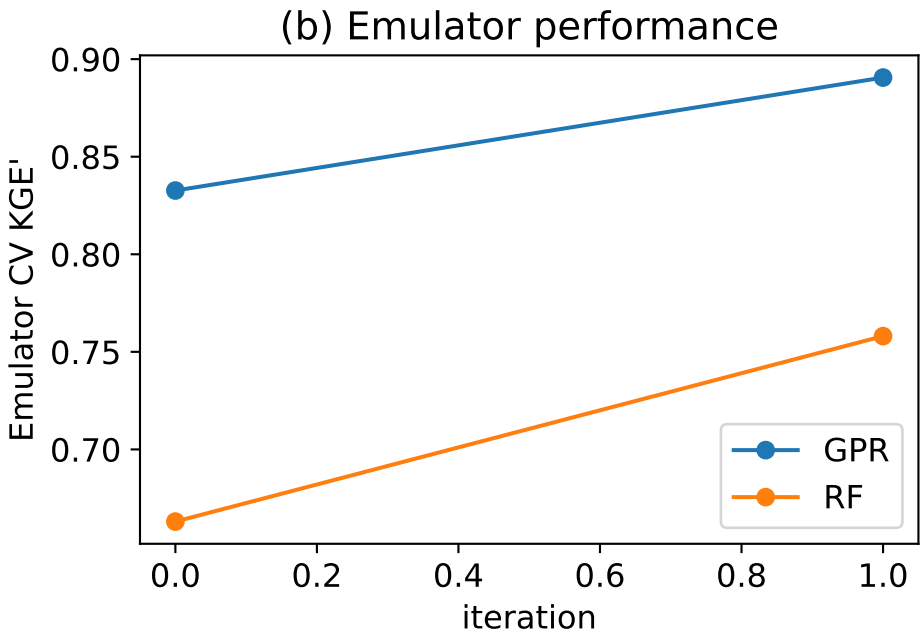


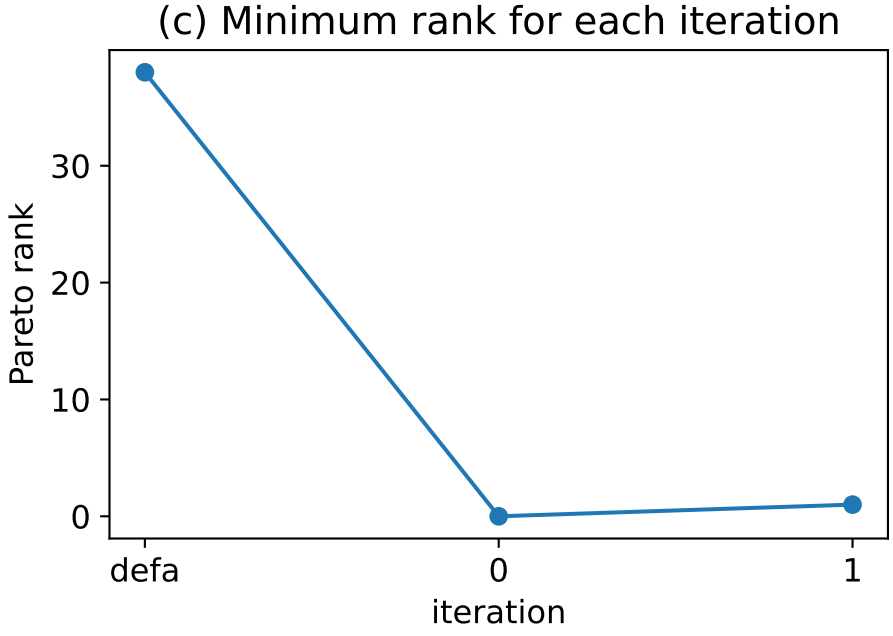




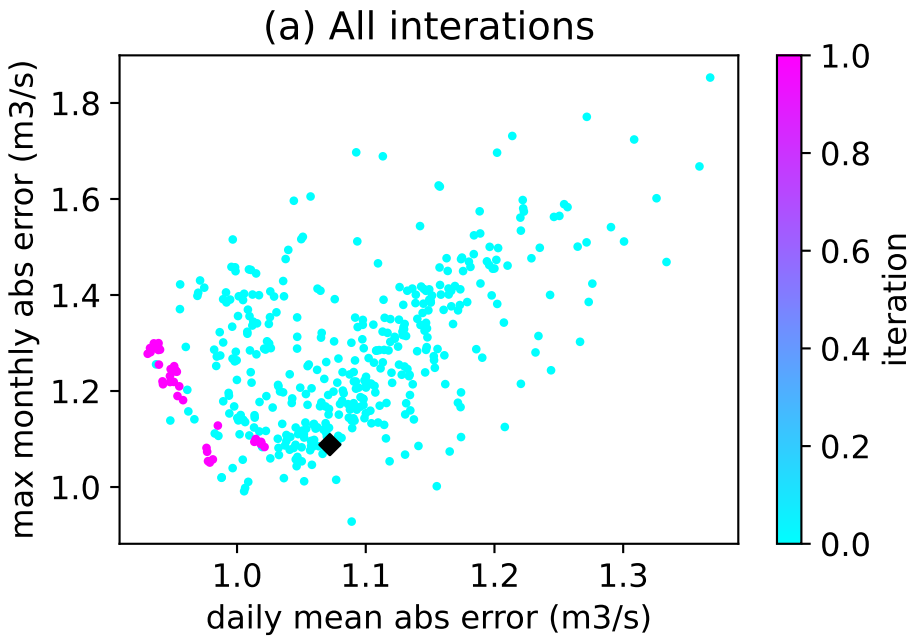
basinid: 563
hru_id: 12145500
lat_cen: 47.48509
lon_cen: -121.88298
AREA: 83.89 km2
elev_mean: 440.13 m

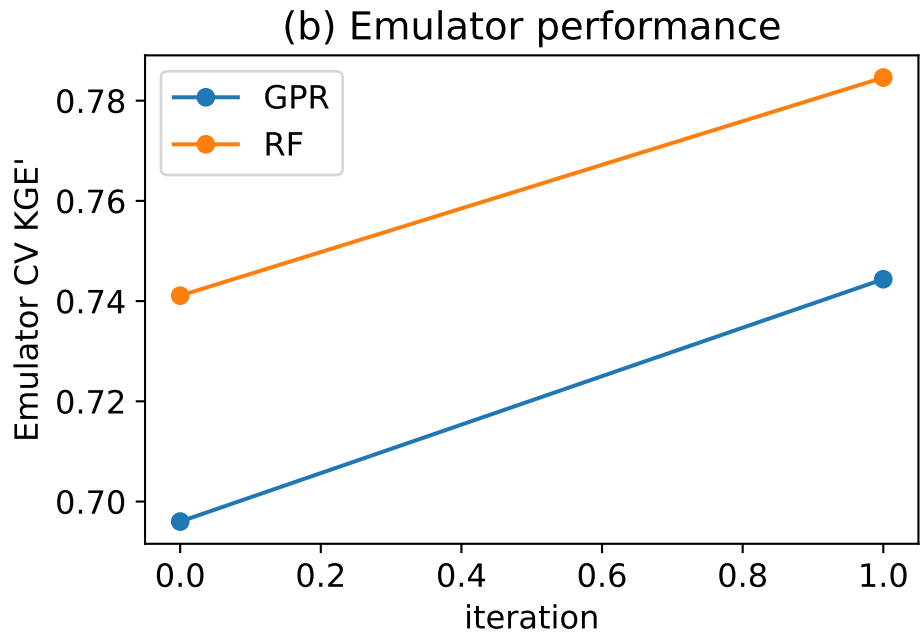


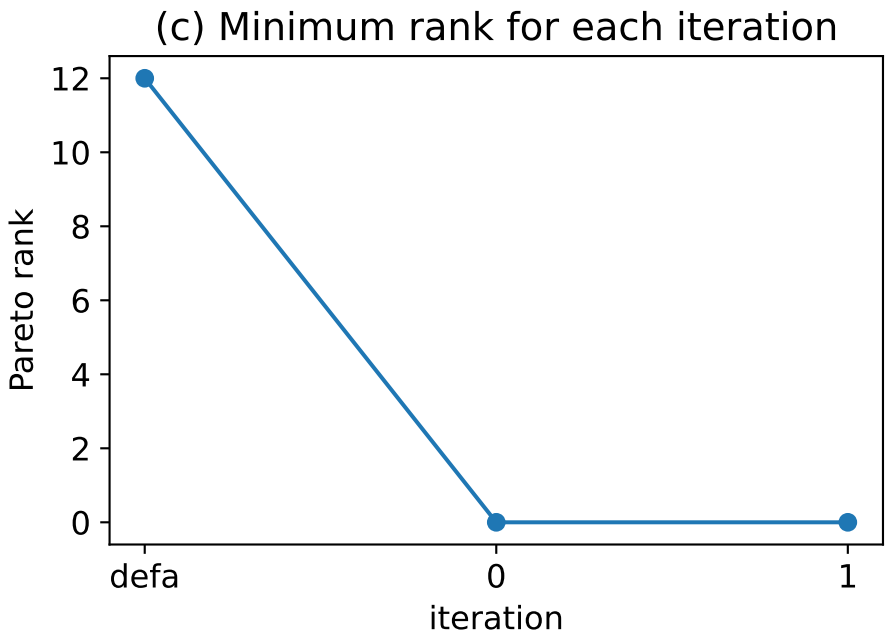




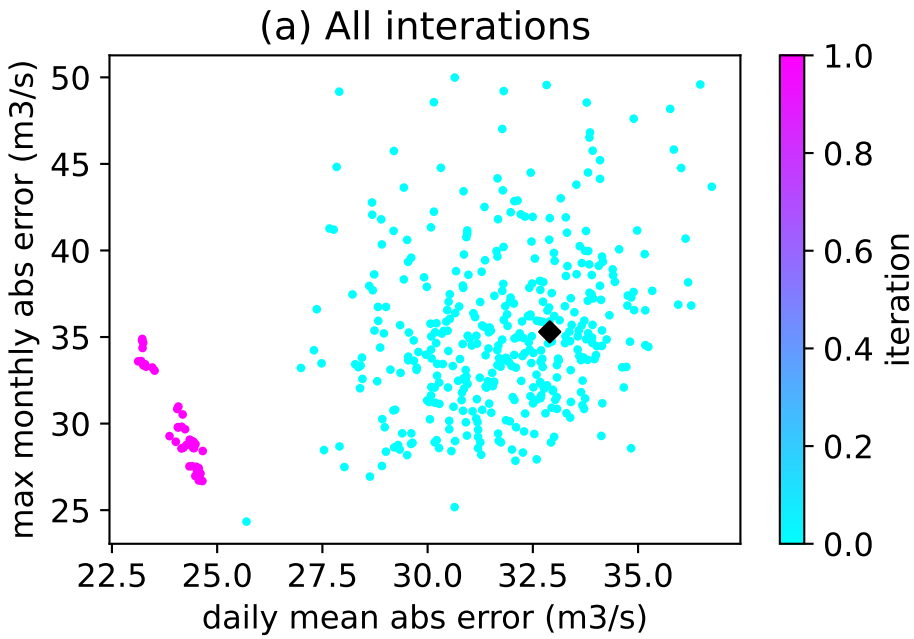
basinid: 564
hru_id: 12147500
lat_cen: 47.74545
lon_cen: -121.67296
AREA: 105.38 km2
elev_mean: 771.61 m

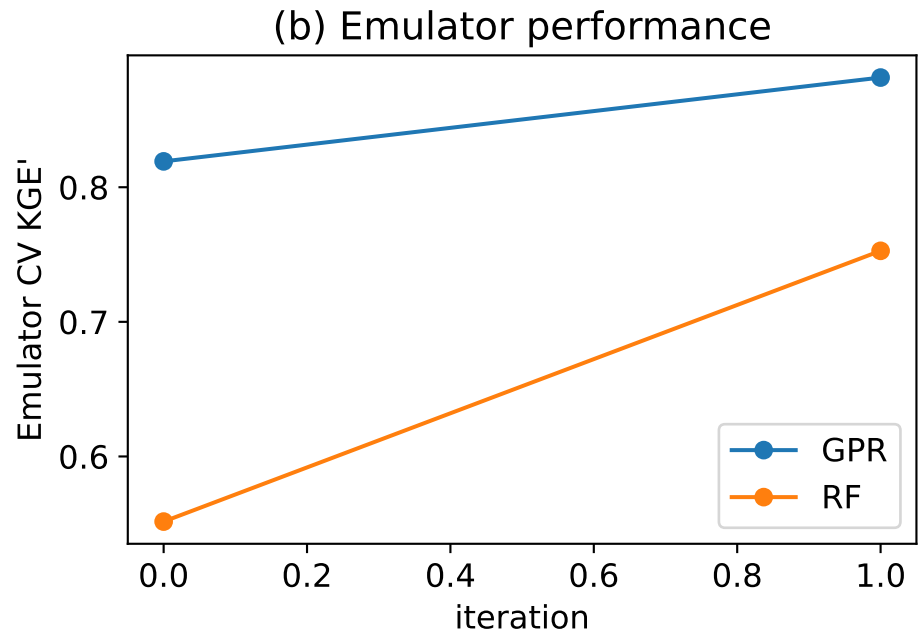


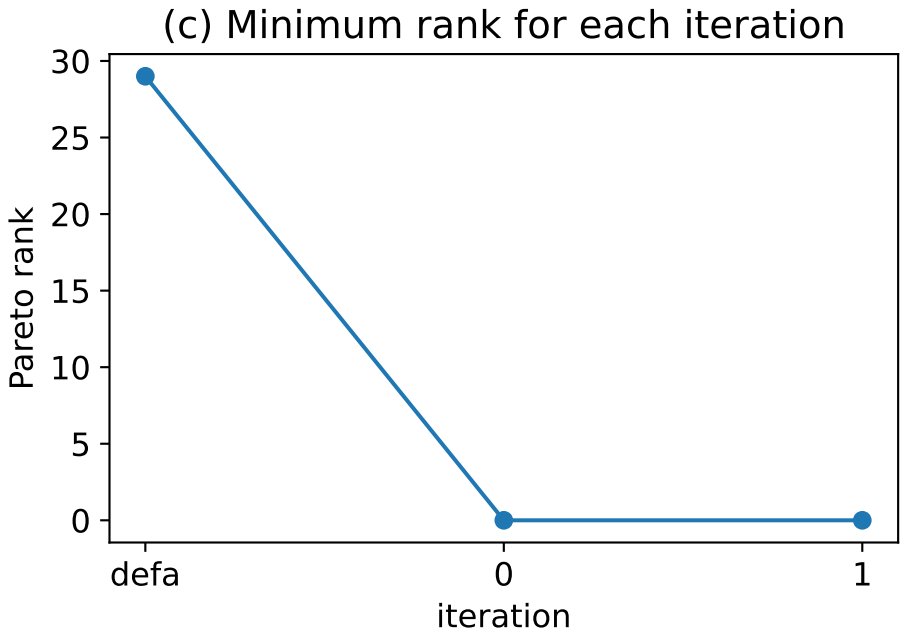




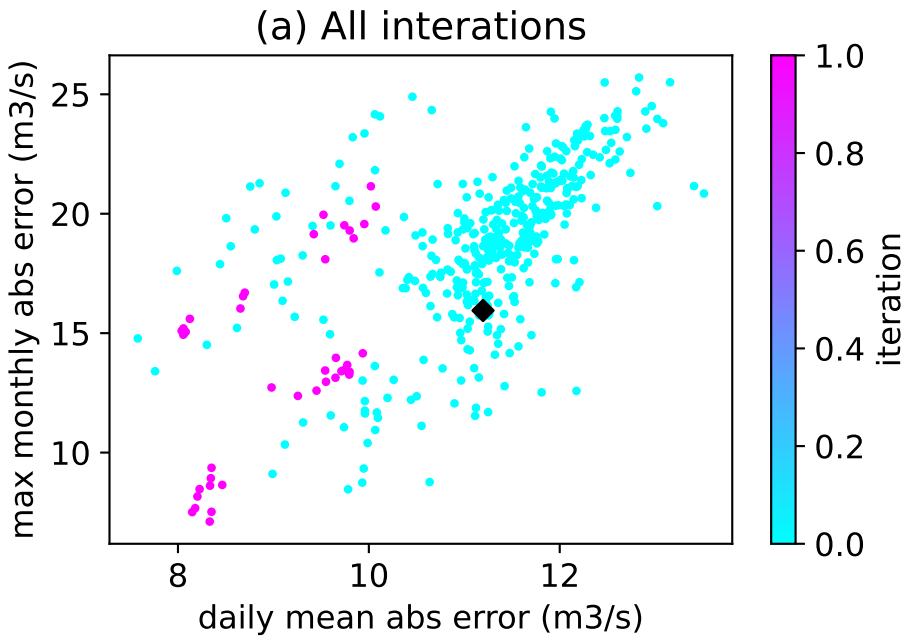
basinid: 565
hru_id: 12147600
lat_cen: 47.70613
lon_cen: -121.5639
AREA: 16.07 km2
elev_mean: 951.94 m

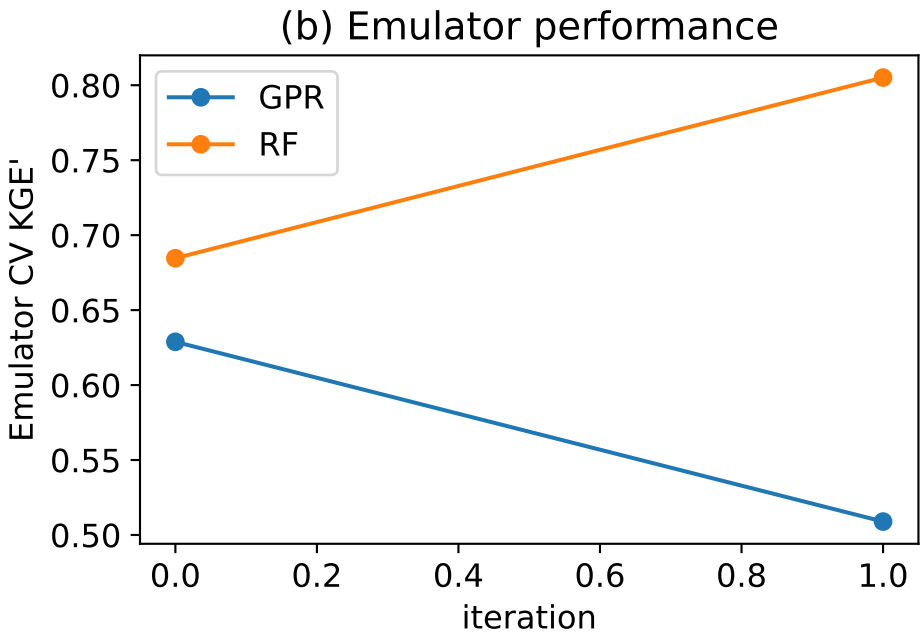


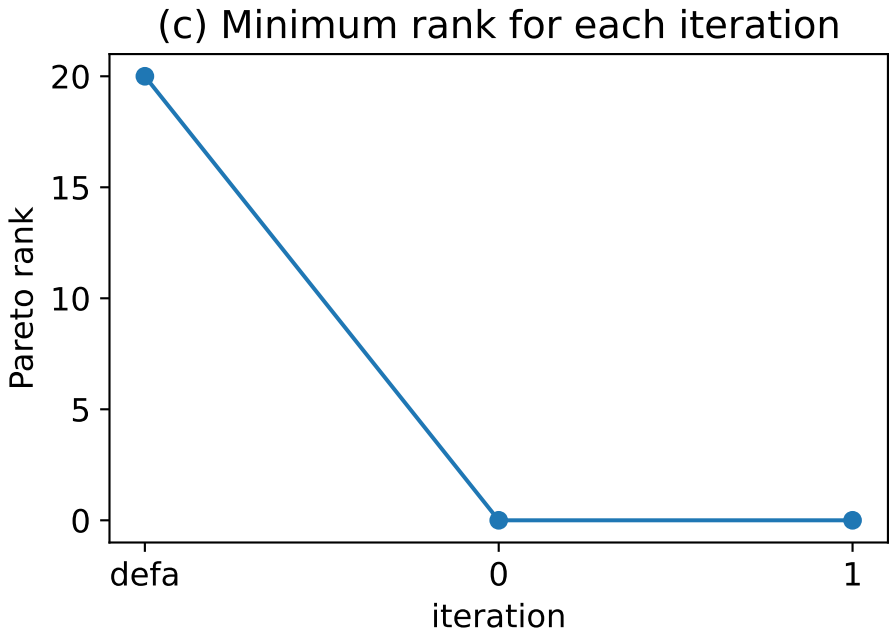




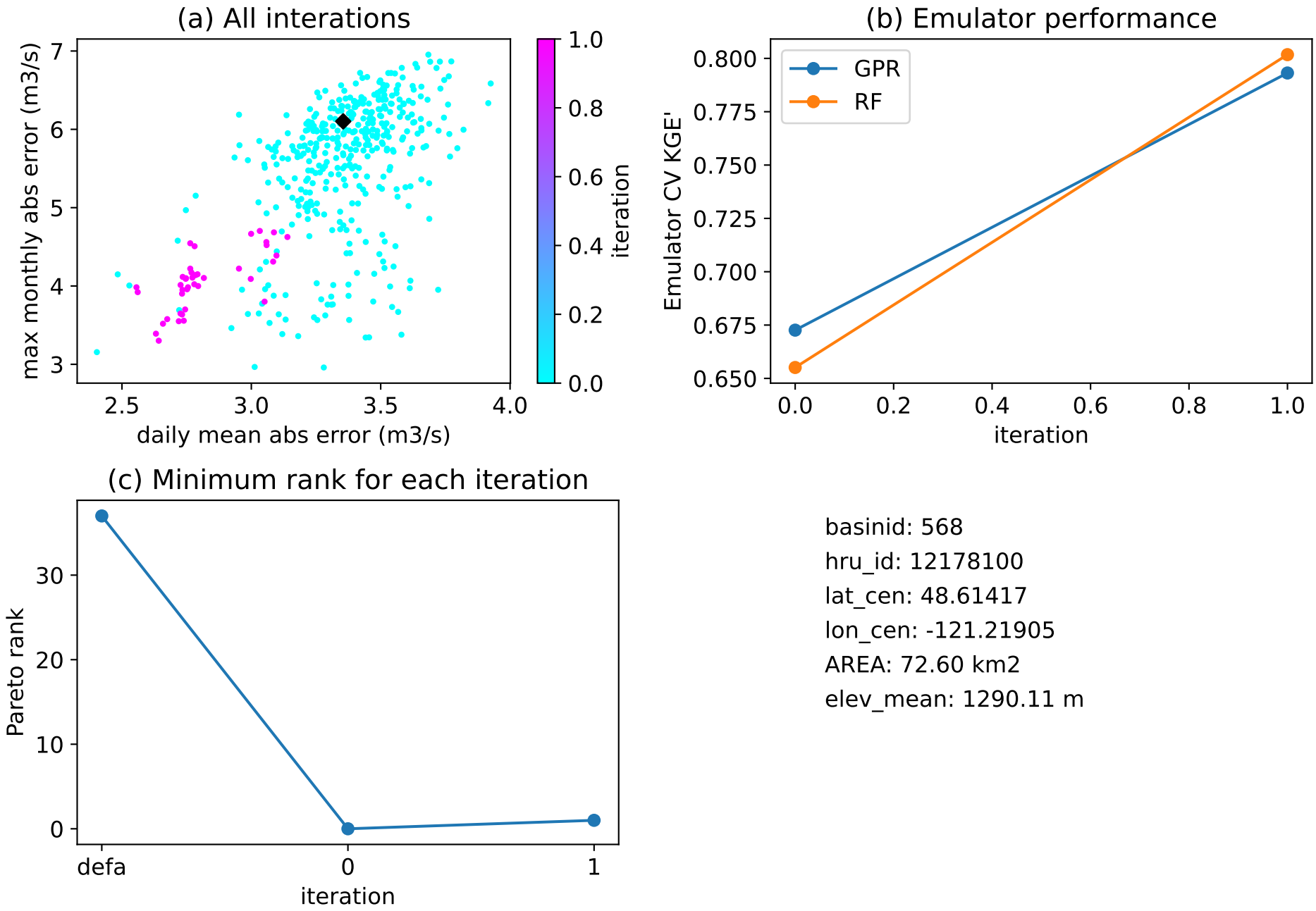
basinid: 566
hru_id: 12167000
lat_cen: 48.30477
lon_cen: -121.79333
AREA: 691.89 km2
elev_mean: 657.43 m

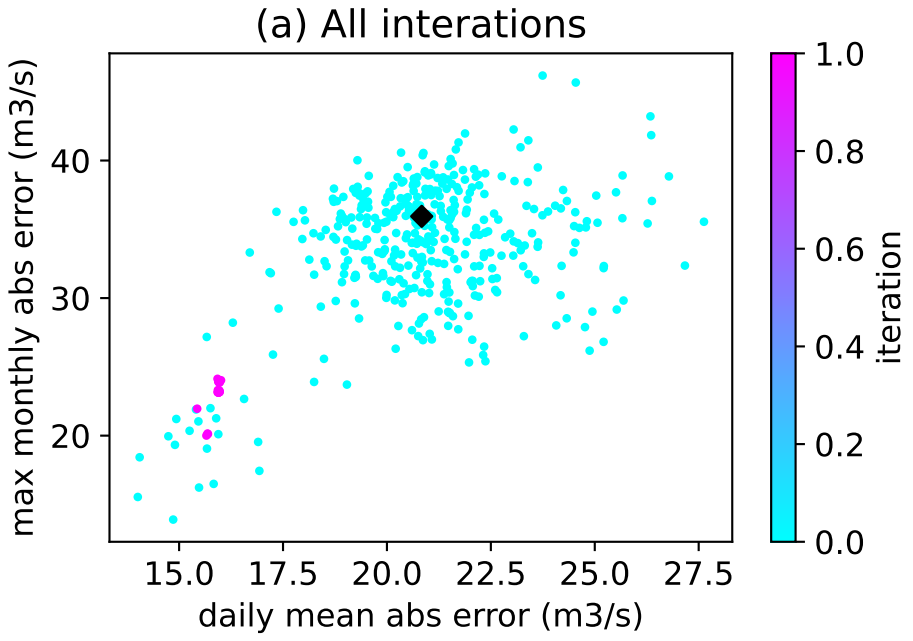


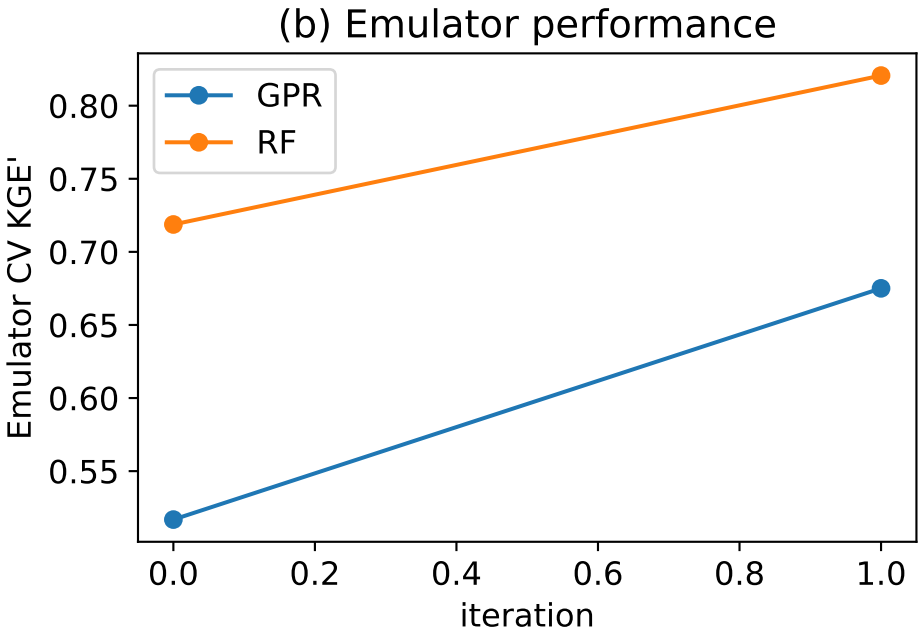


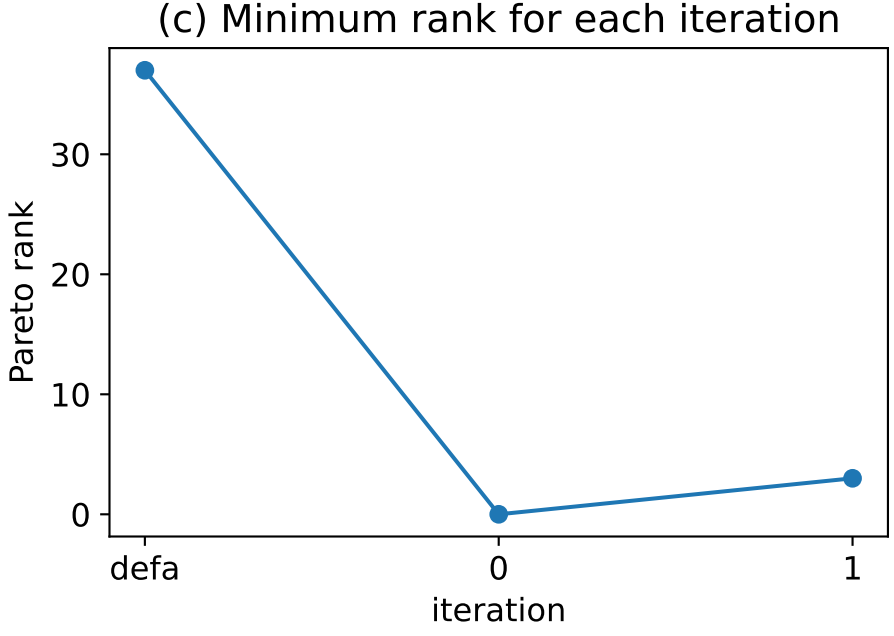


basinid: 567
hru_id: 12175500
lat_cen: 48.57632
lon_cen: -121.03261
AREA: 274.05 km2
elev_mean: 1575.34 m

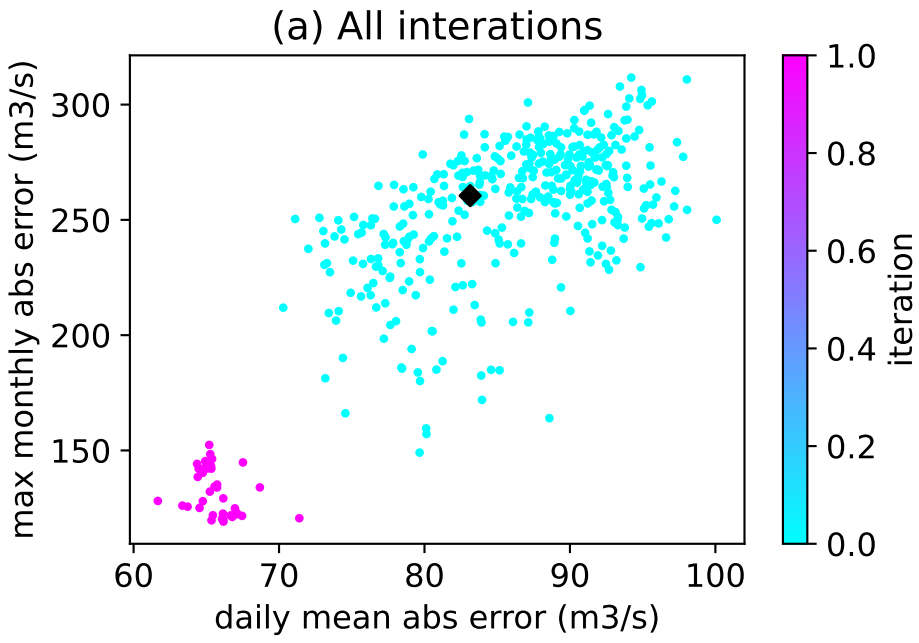

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 568
hru_id: 12178100
lat_cen: 48.61417
lon_cen: -121.21905
AREA: 72.60 km2
elev_mean: 1290.11 m

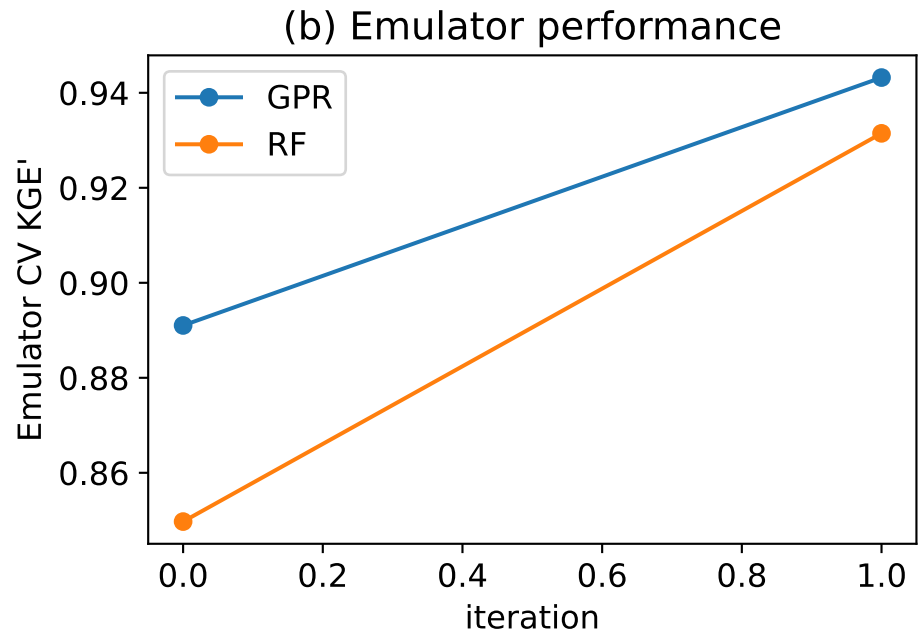


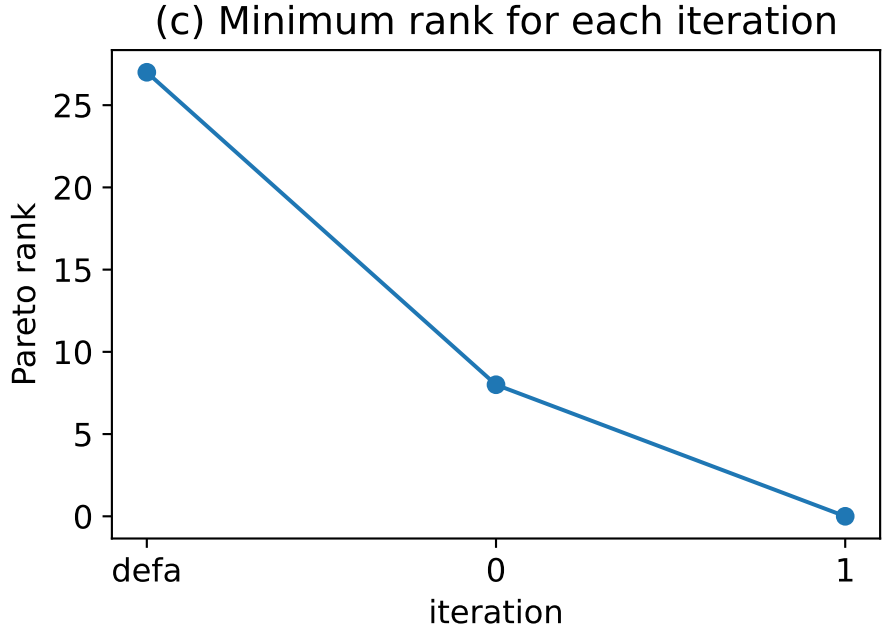




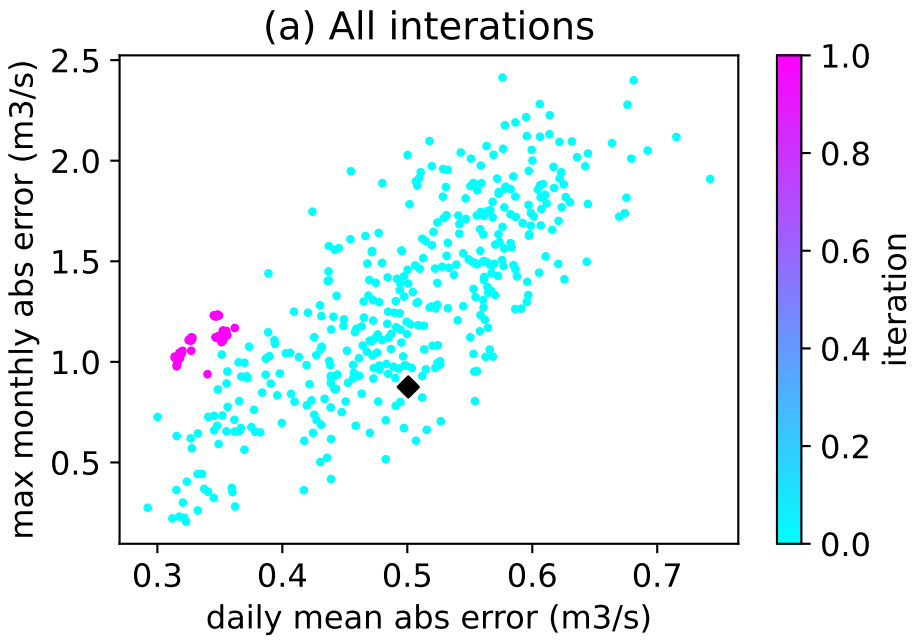
basinid: 569
hru_id: 12186000
lat_cen: 48.0522
lon_cen: -121.33279
AREA: 398.64 km2
elev_mean: 1167.68 m

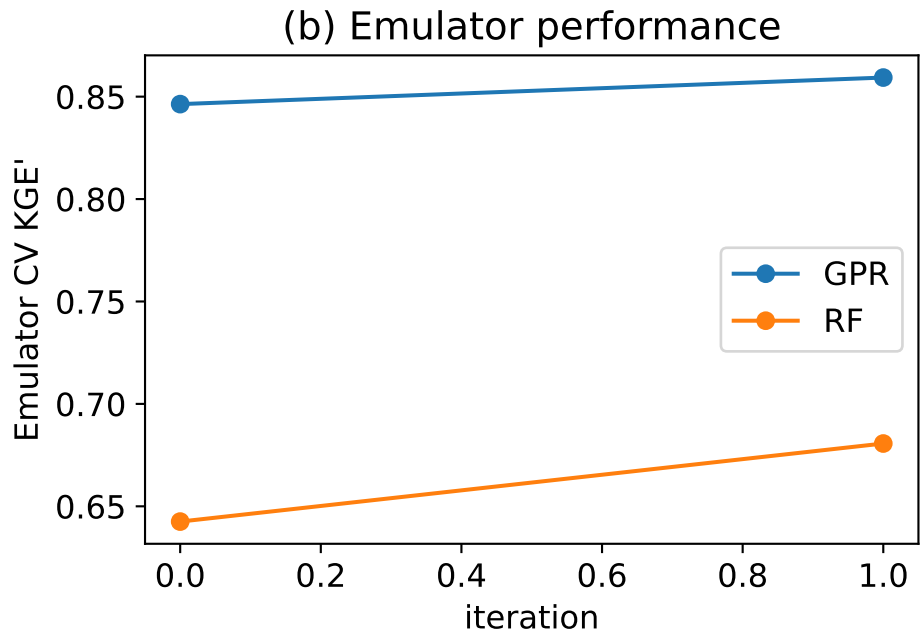


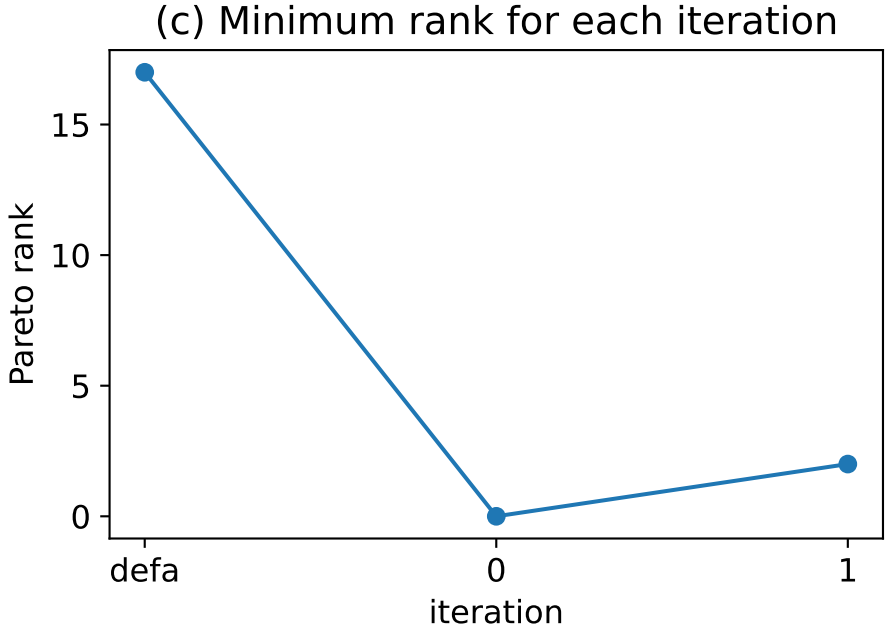




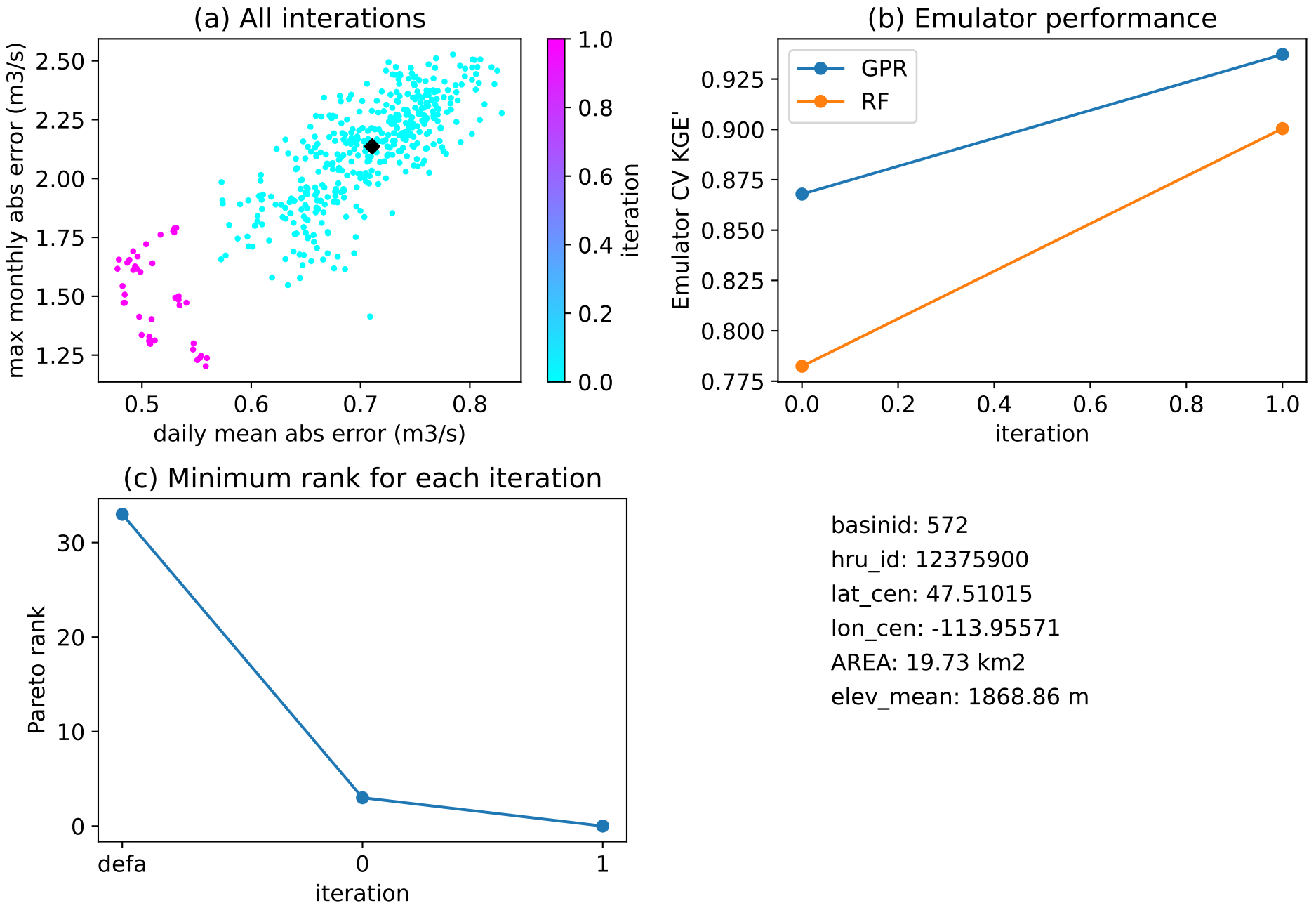
basinid: 570
hru_id: 12358500
lat_cen: 48.33106
lon_cen: -113.52549
AREA: 2917.03 km2
elev_mean: 1729.77 m

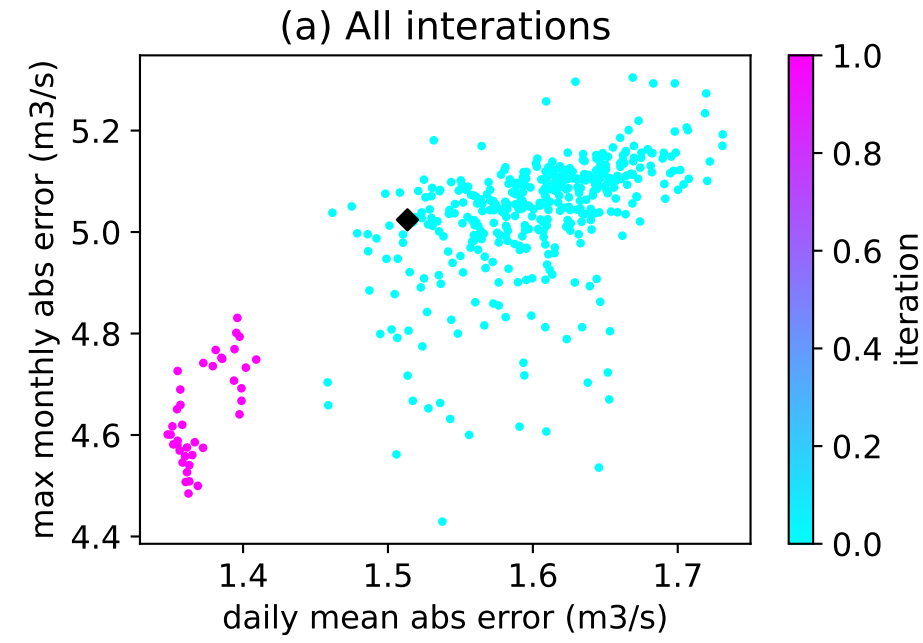


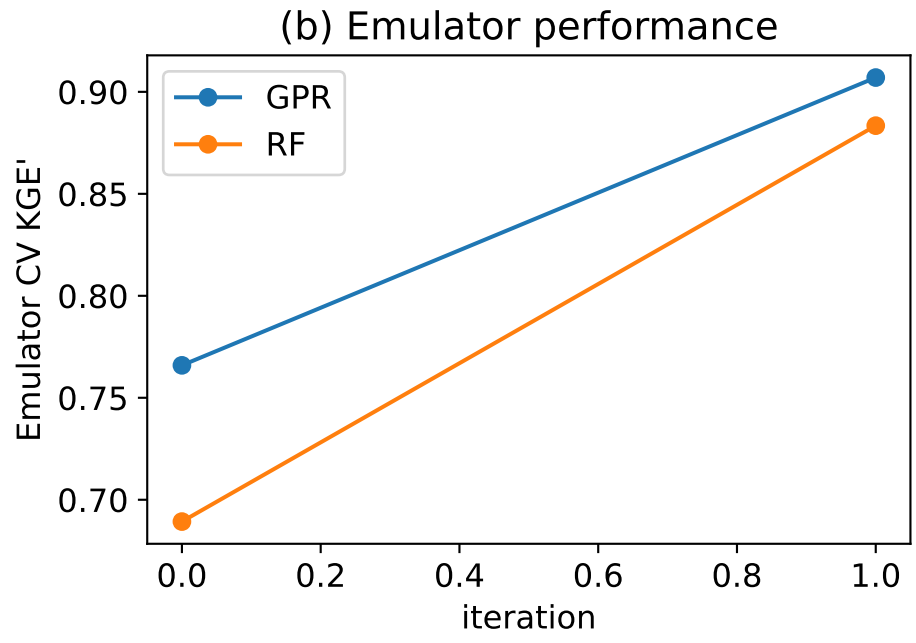


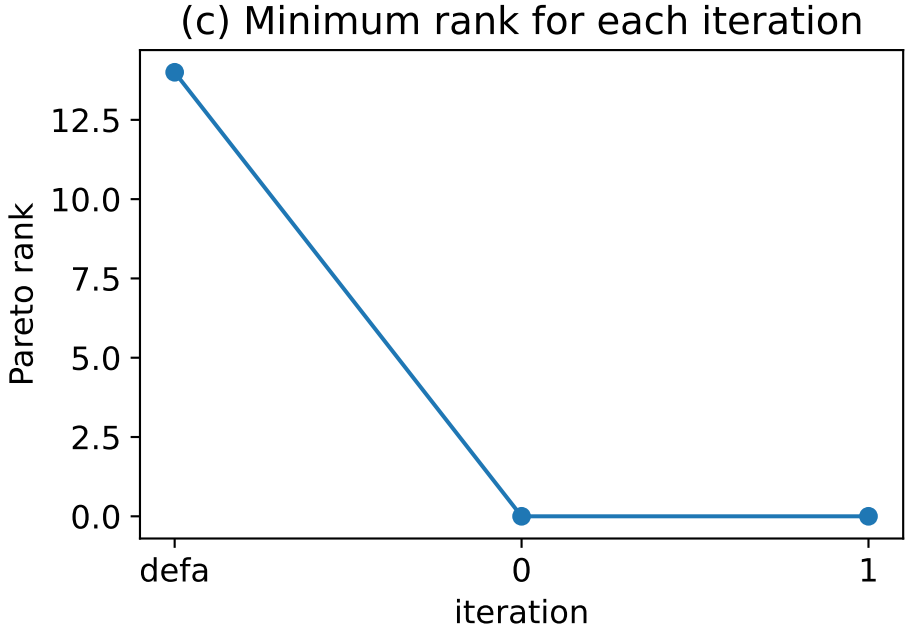


basinid: 571
hru_id: 12374250
lat_cen: 47.79958
lon_cen: -114.77652
AREA: 53.30 km2
elev_mean: 1464.62 m

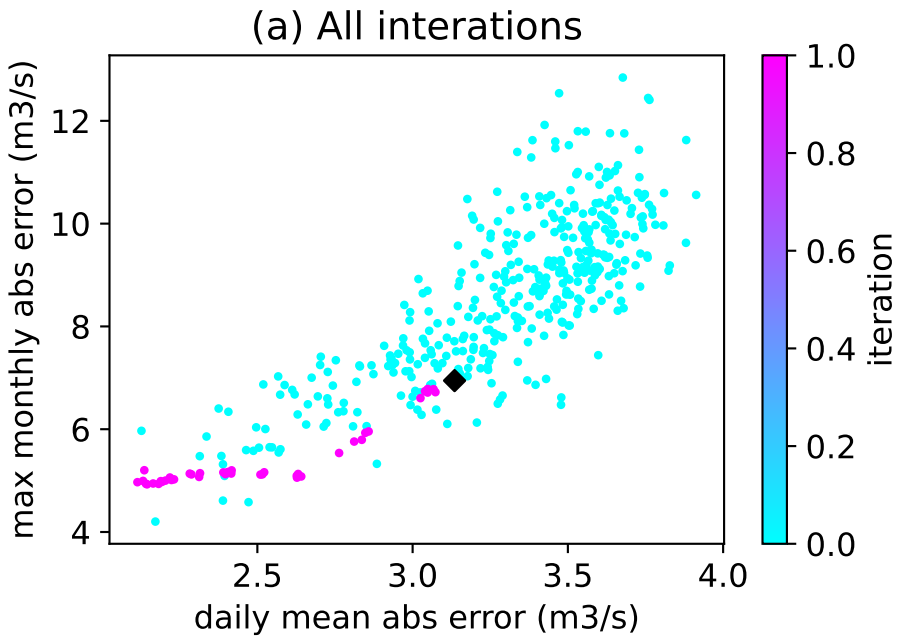

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 572
hru_id: 12375900
lat_cen: 47.51015
lon_cen: -113.95571
AREA: 19.73 km2
elev_mean: 1868.86 m

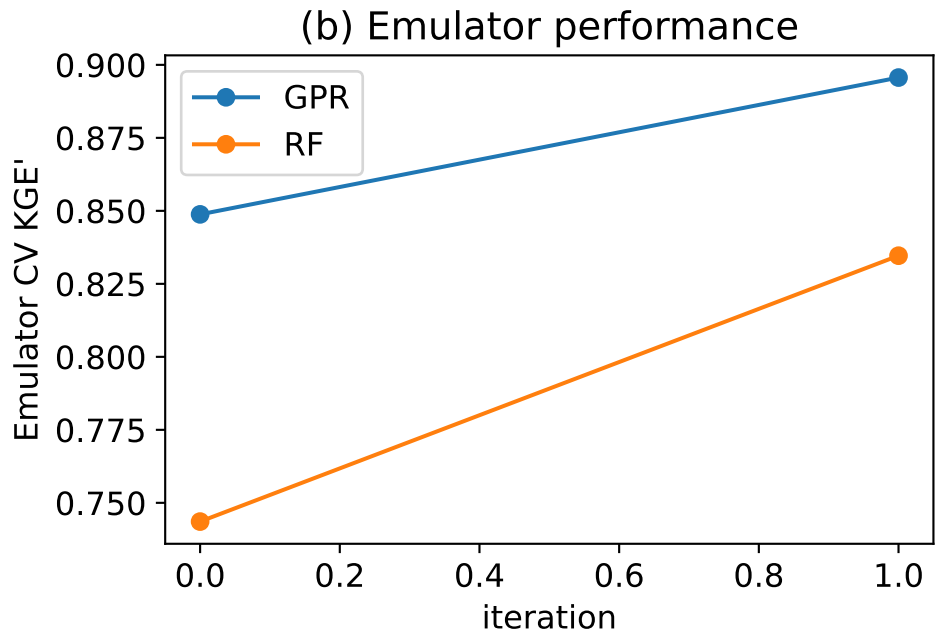


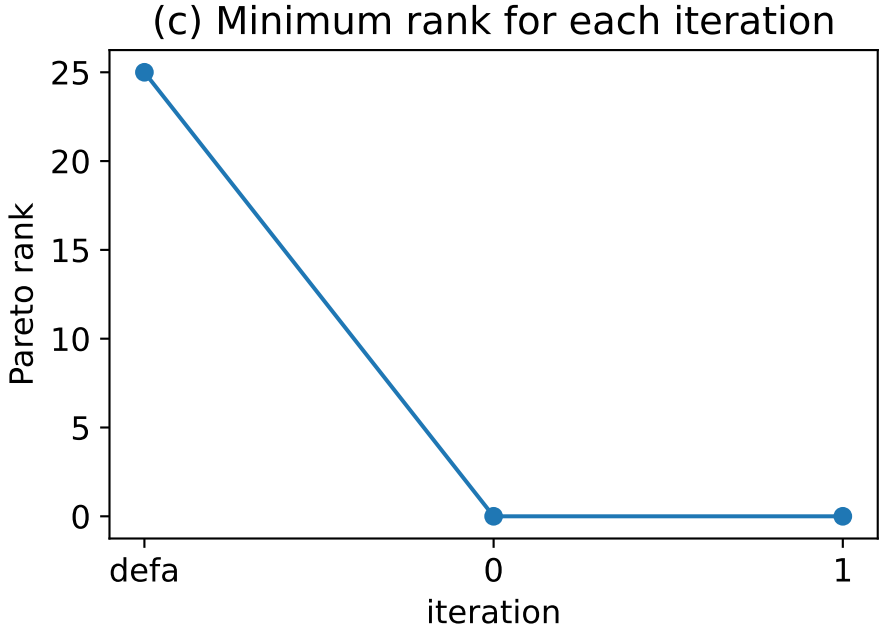




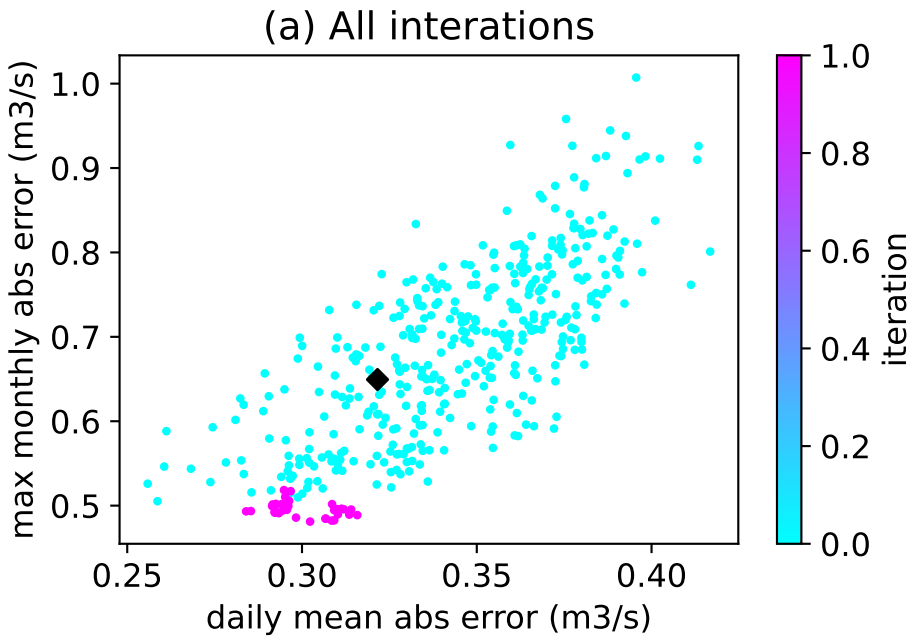
basinid: 573
hru_id: 12377150
lat_cen: 47.33686
lon_cen: -113.92516
AREA: 32.39 km2
elev_mean: 2128.66 m

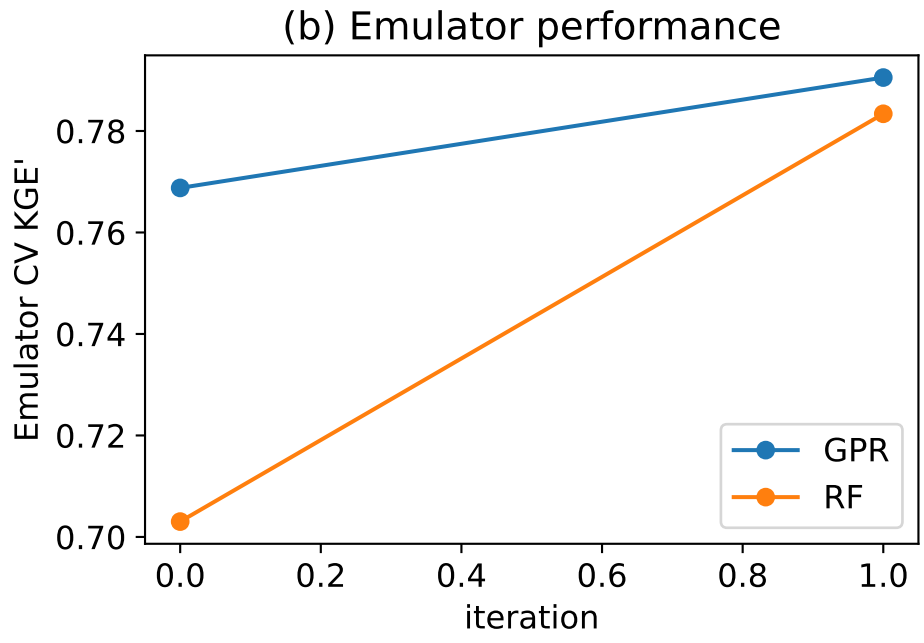


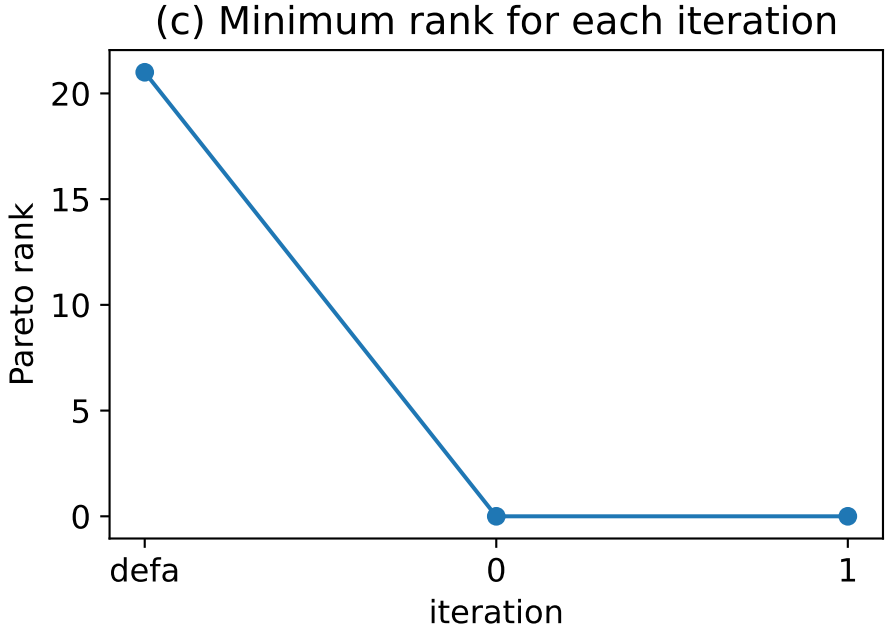




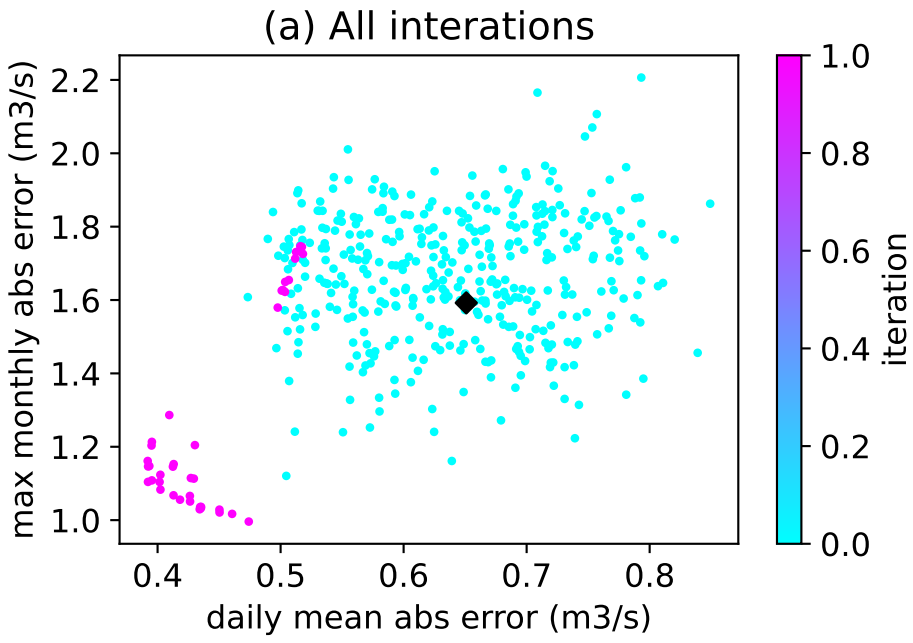
basinid: 574
hru_id: 12381400
lat_cen: 47.13612
lon_cen: -113.79674
AREA: 148.95 km2
elev_mean: 1828.60 m

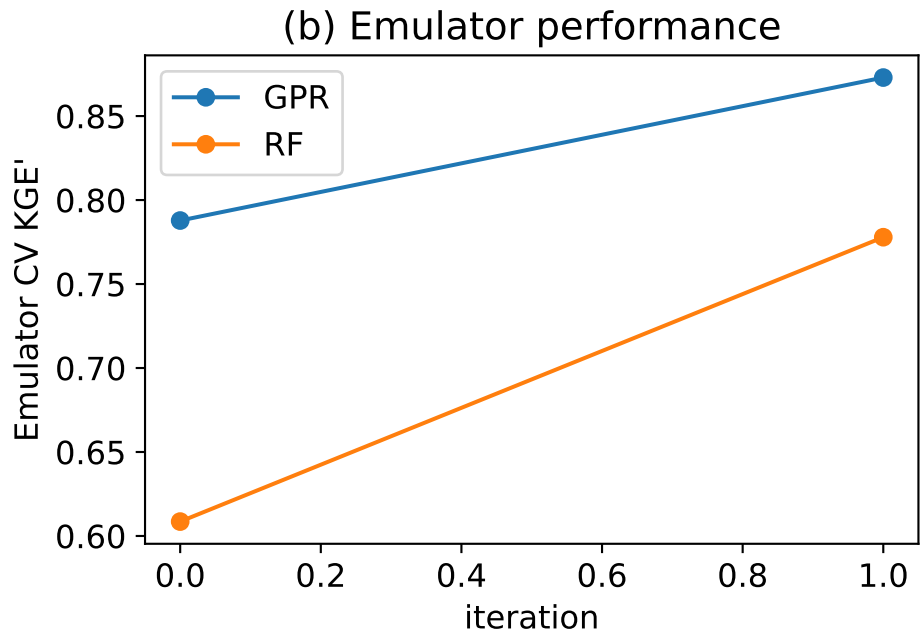


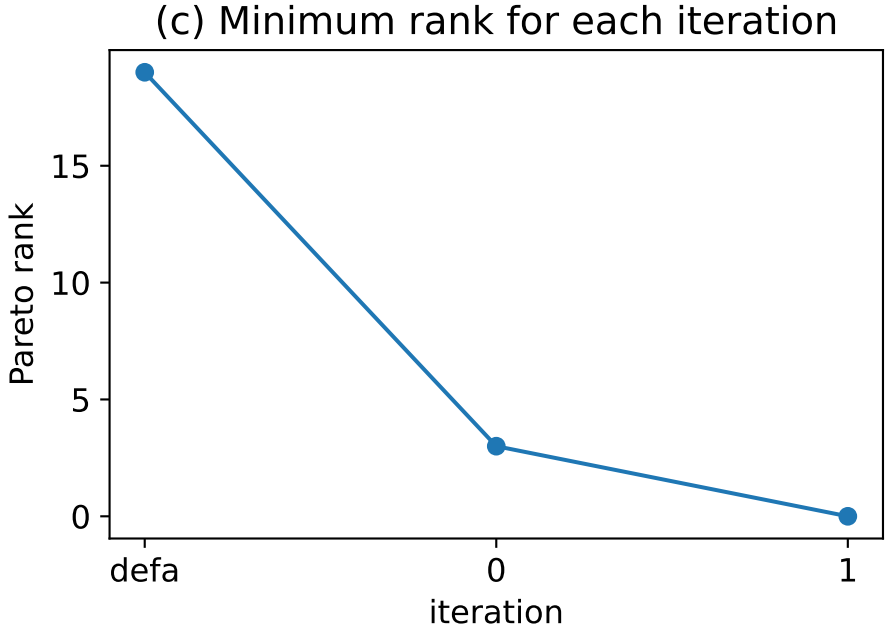




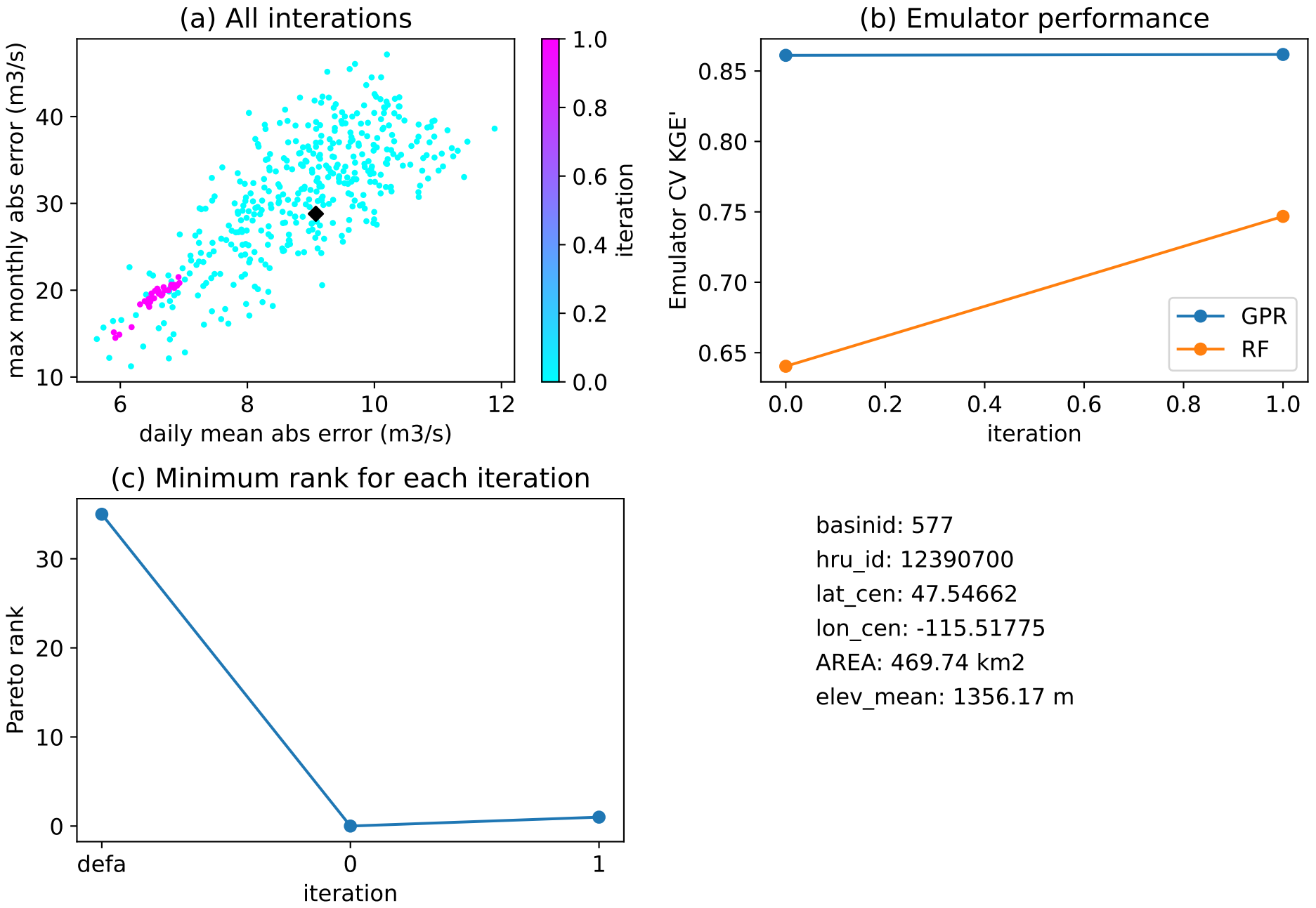
basinid: 575
hru_id: 12383500
lat_cen: 47.13778
lon_cen: -113.92311
AREA: 17.70 km2
elev_mean: 1923.67 m

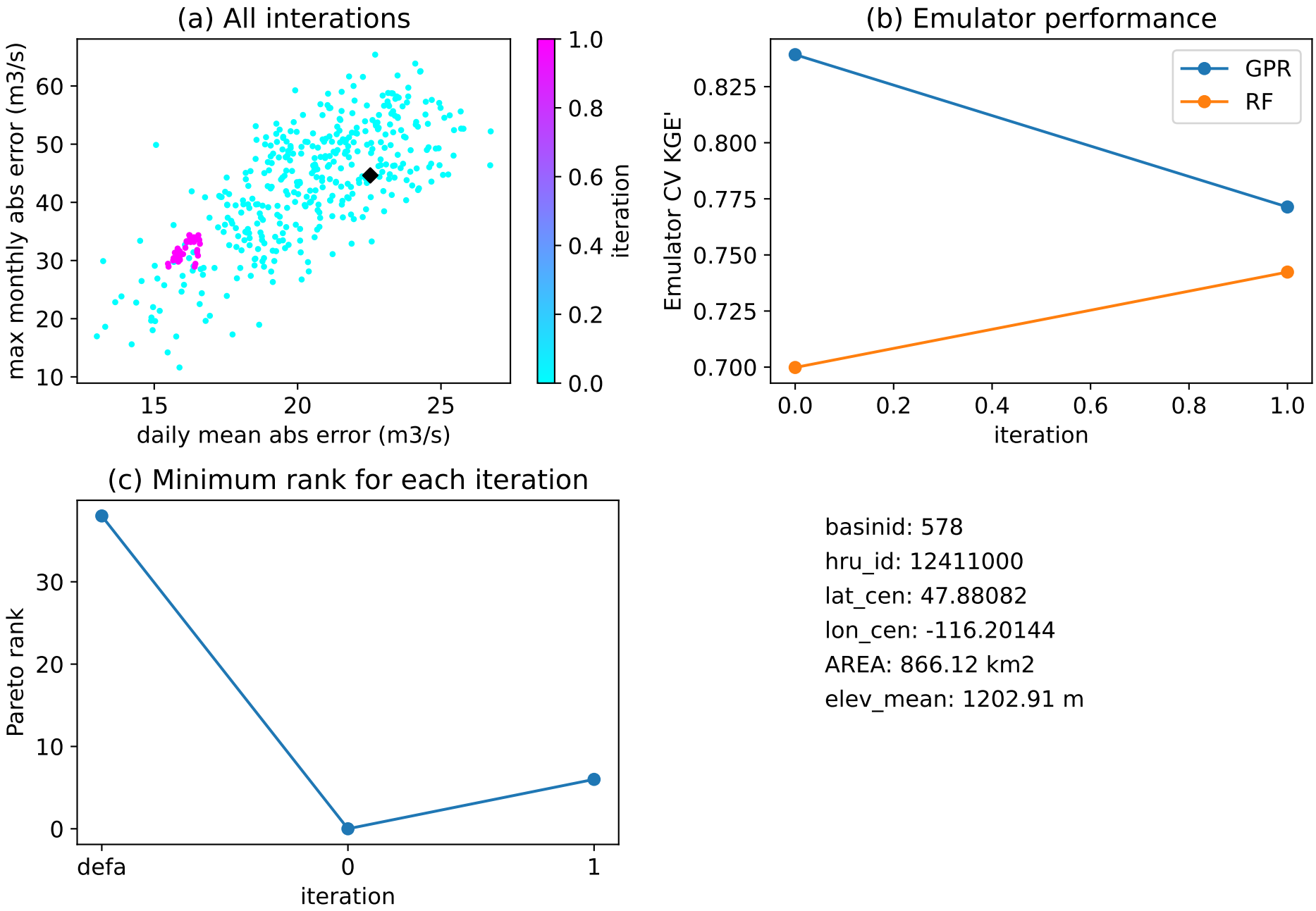


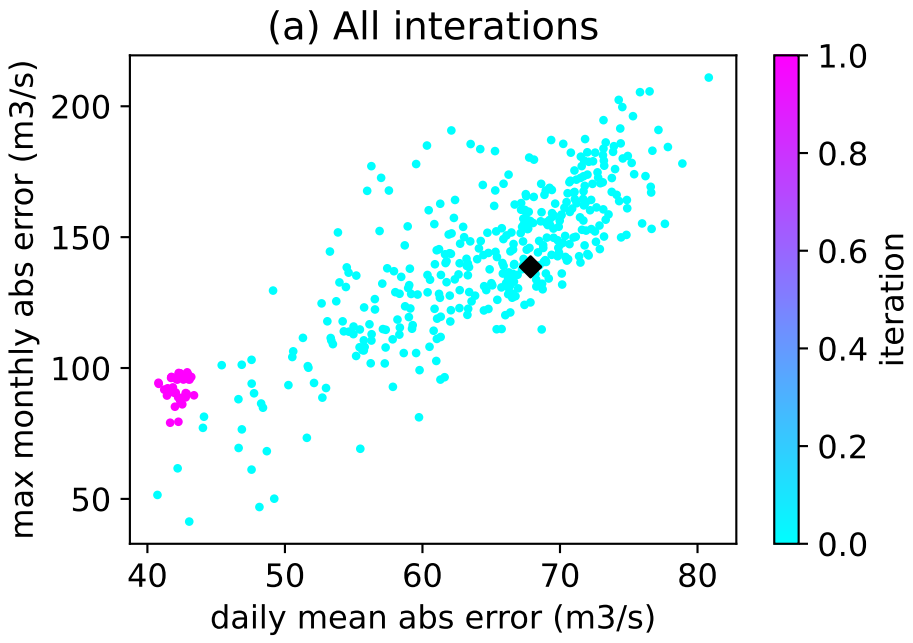


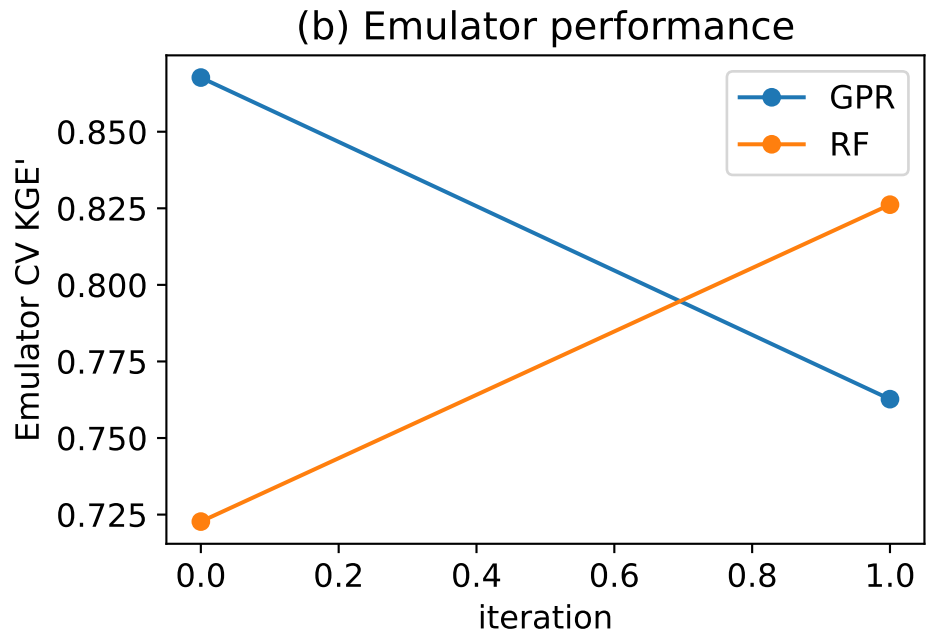


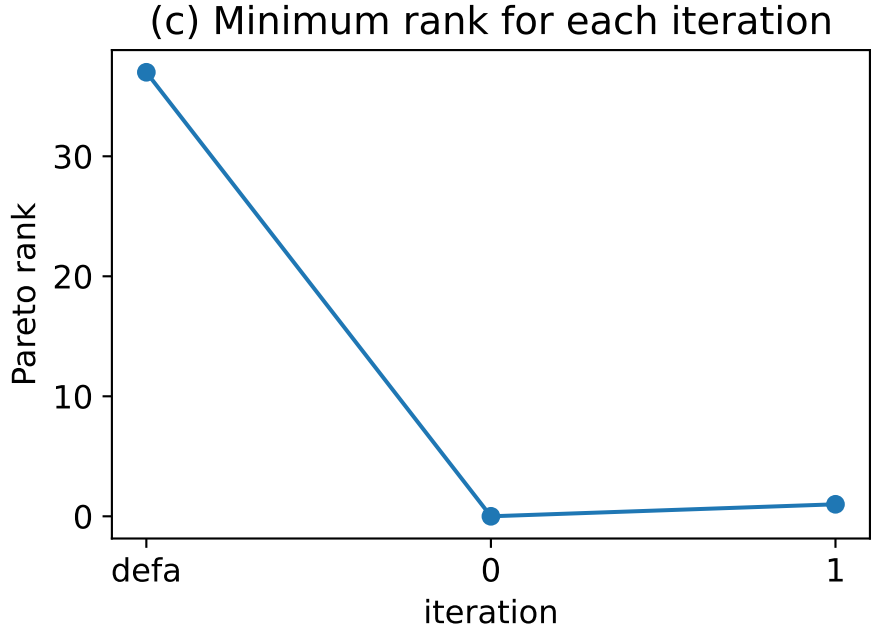
basinid: 576
hru_id: 12388400
lat_cen: 47.24214
lon_cen: -114.39995
AREA: 76.56 km2
elev_mean: 1572.70 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 577
hru_id: 12390700
lat_cen: 47.54662
lon_cen: -115.51775
AREA: 469.74 km2
elev_mean: 1356.17 m

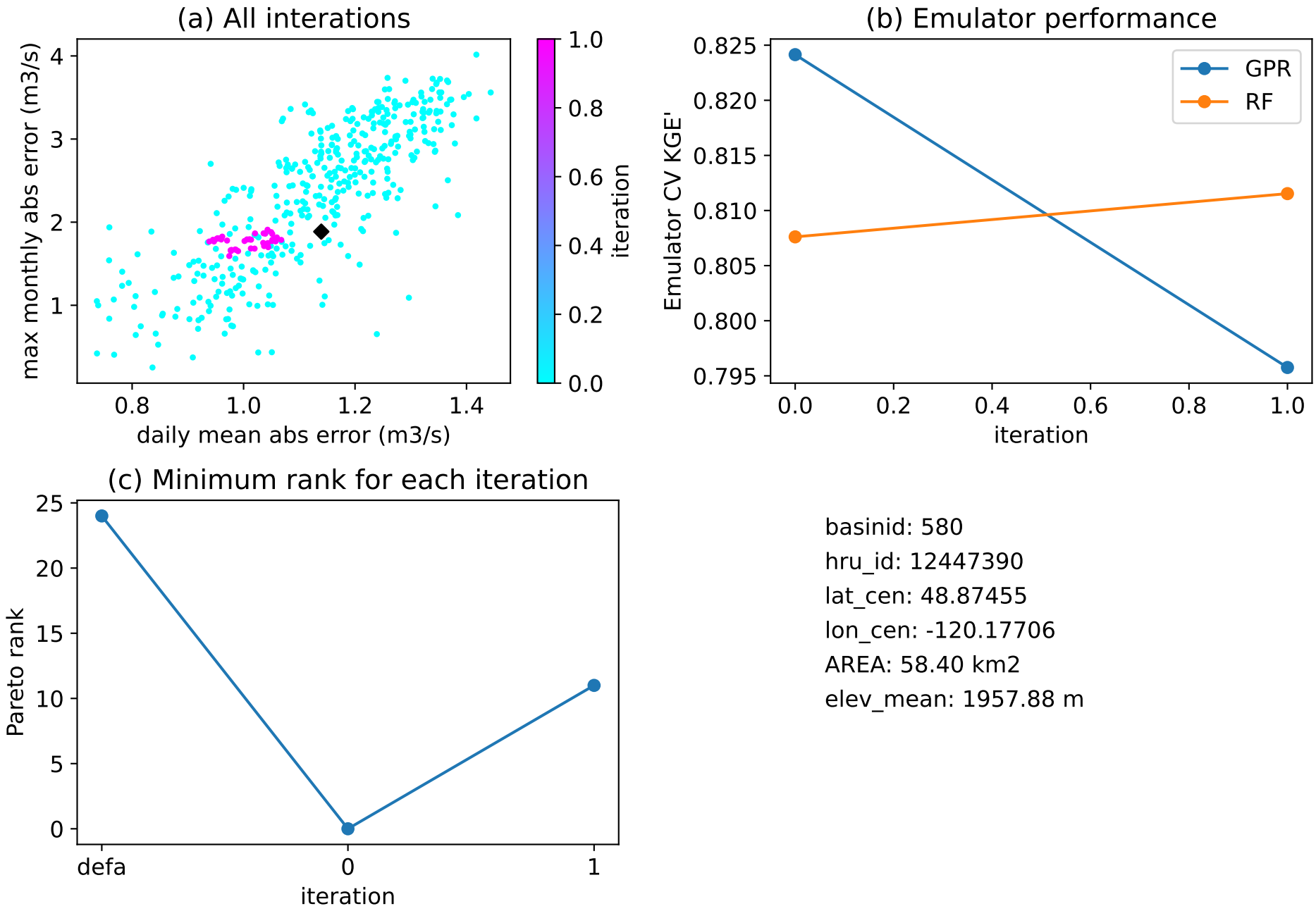

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 578
hru_id: 12411000
lat_cen: 47.88082
lon_cen: -116.20144
AREA: 866.12 km2
elev_mean: 1202.91 m

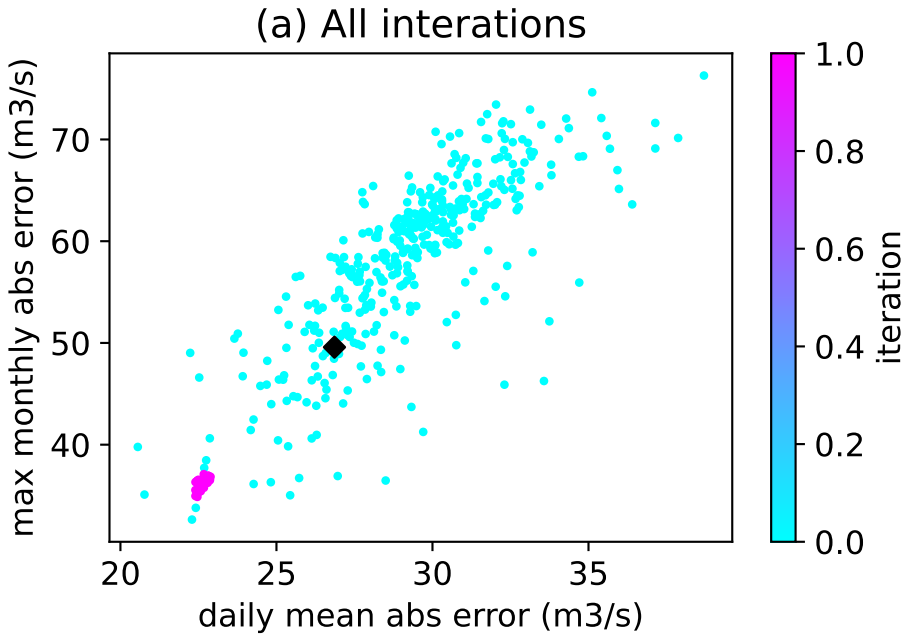


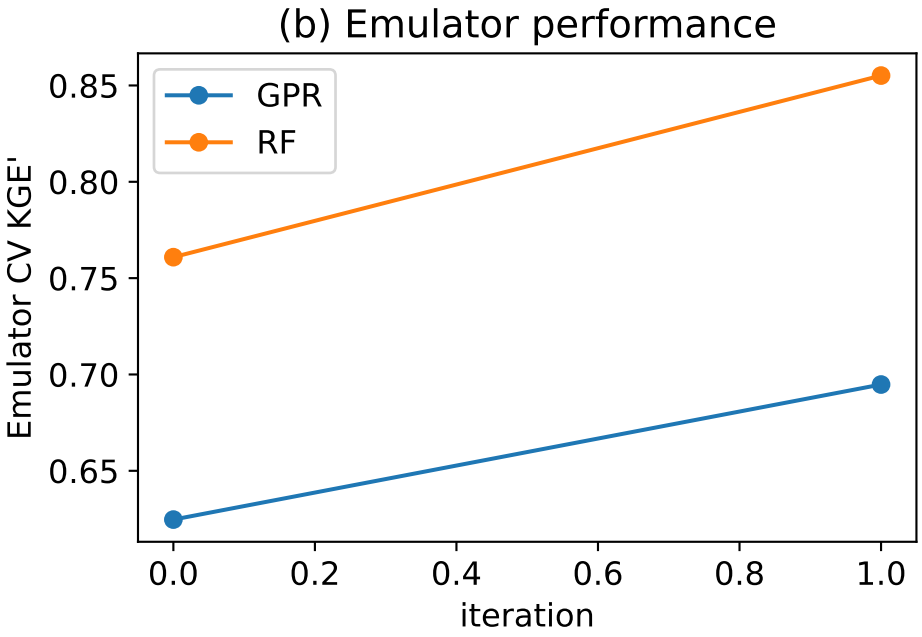


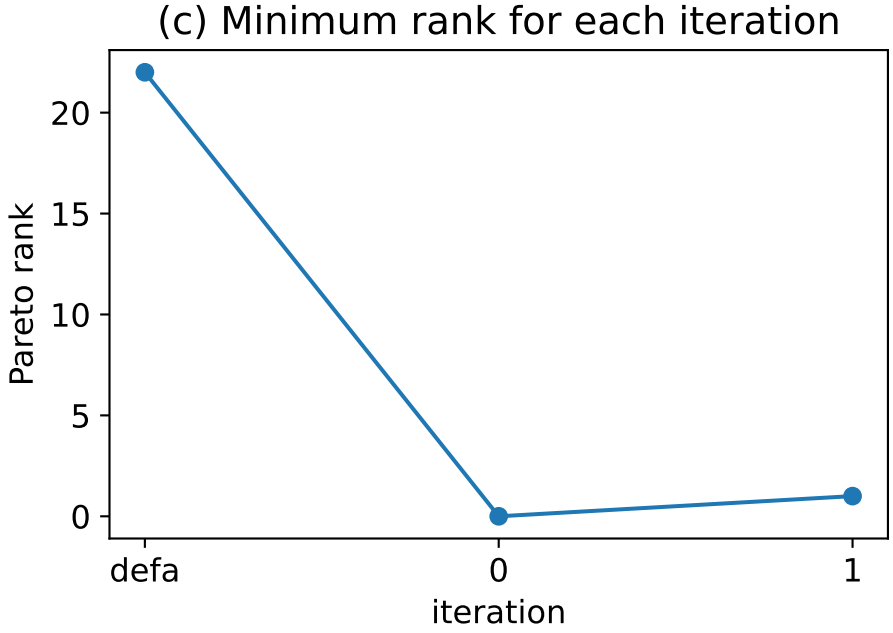


basinid: 579
hru_id: 12414500
lat_cen: 47.20179
lon_cen: -115.73029
AREA: 2660.42 km2
elev_mean: 1387.42 m

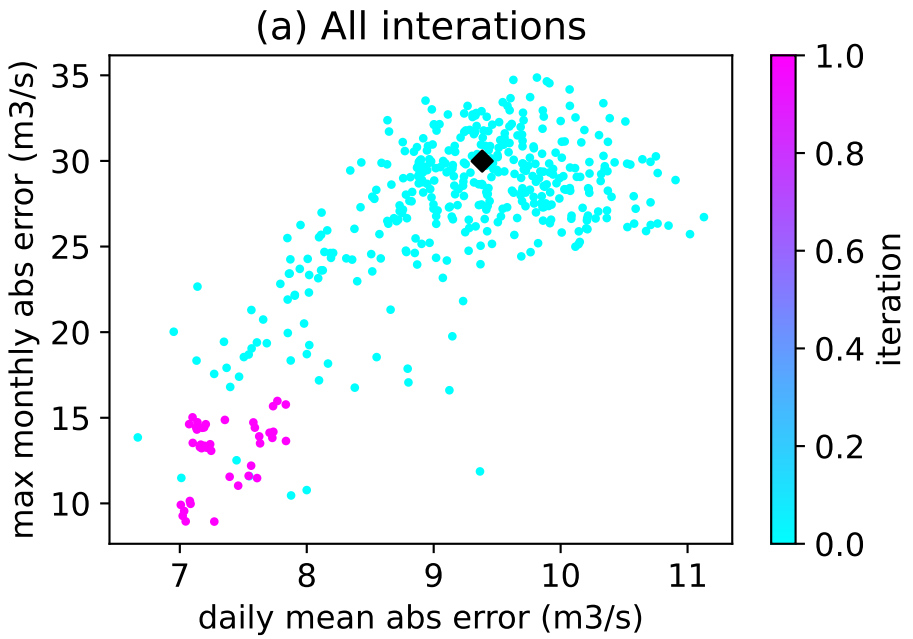

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 580
hru_id: 12447390
lat_cen: 48.87455
lon_cen: -120.17706
AREA: 58.40 km2
elev_mean: 1957.88 m

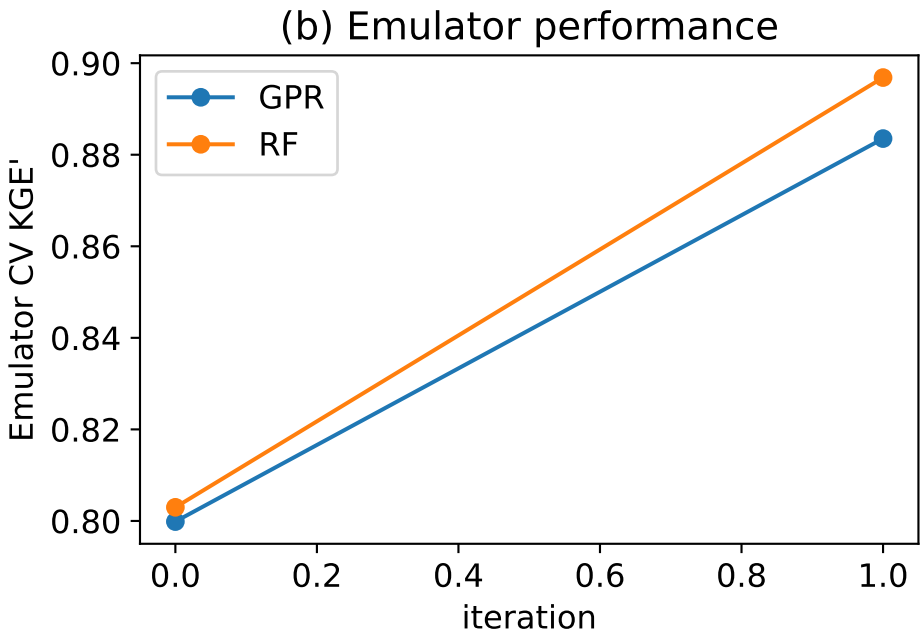


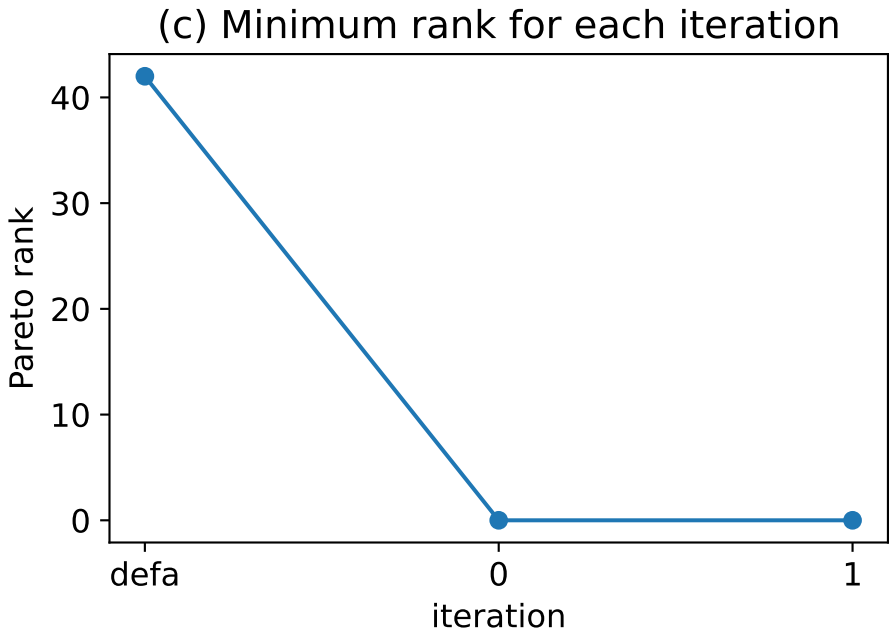




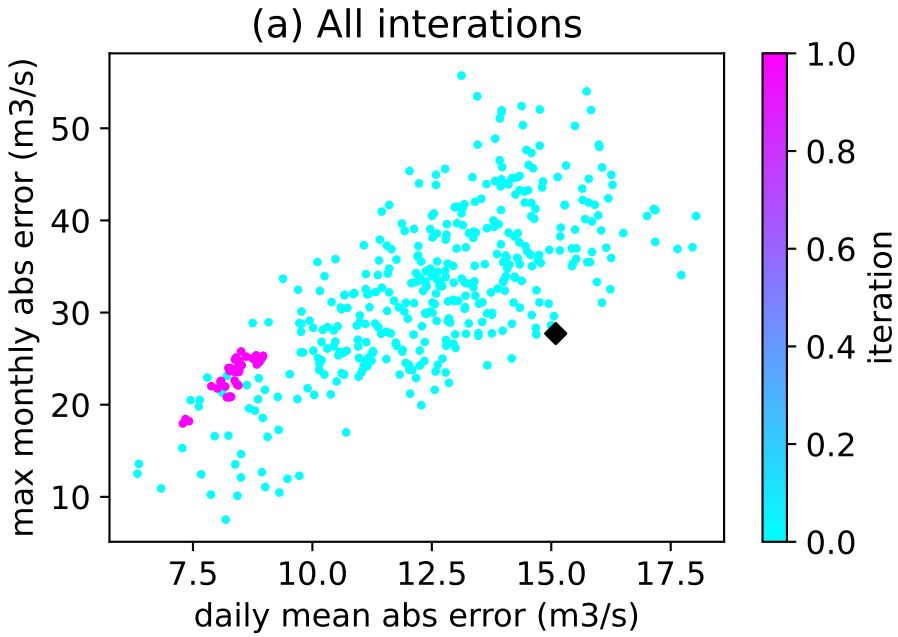
basinid: 581
hru_id: 12451000
lat_cen: 48.39009
lon_cen: -120.85942
AREA: 830.33 km2
elev_mean: 1528.59 m

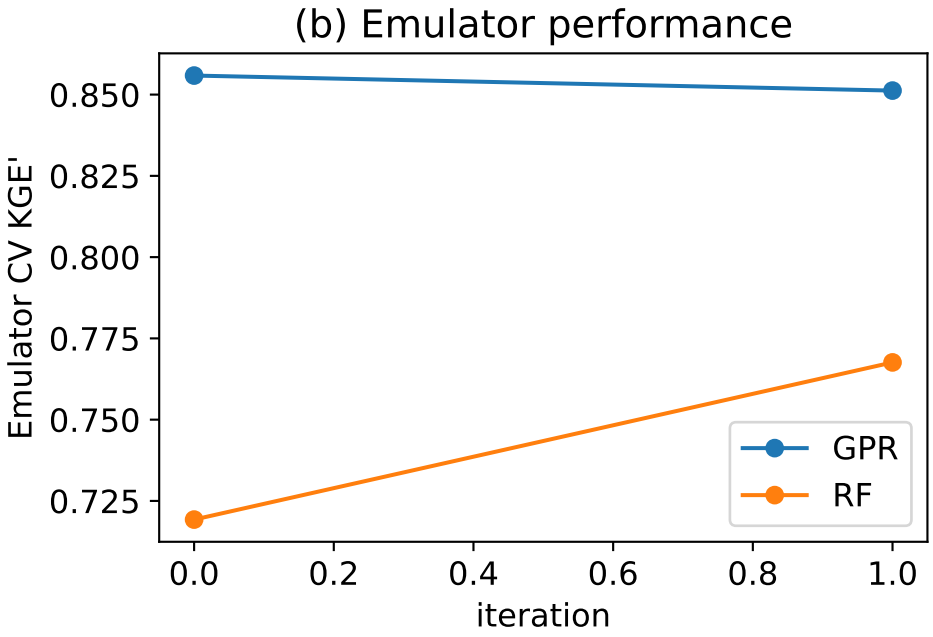


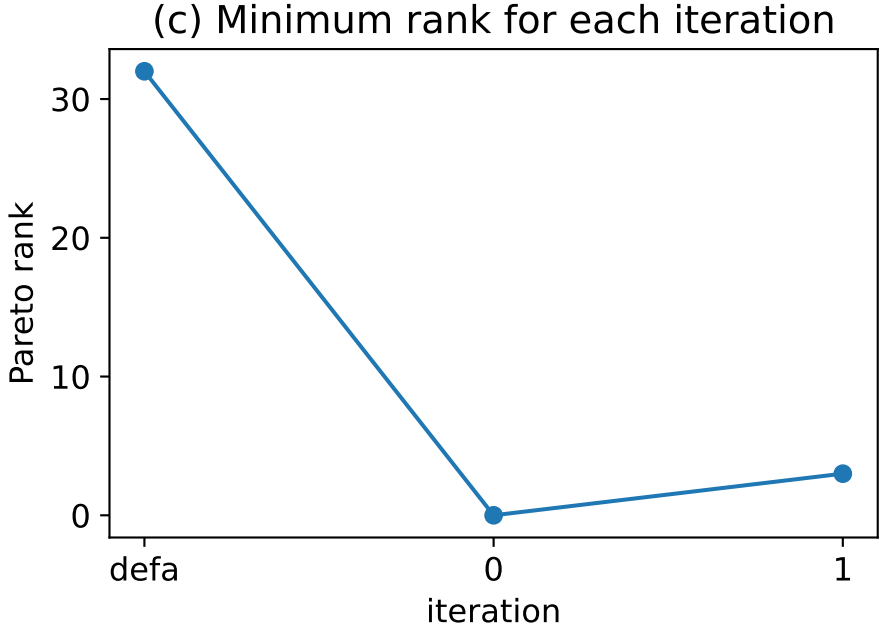




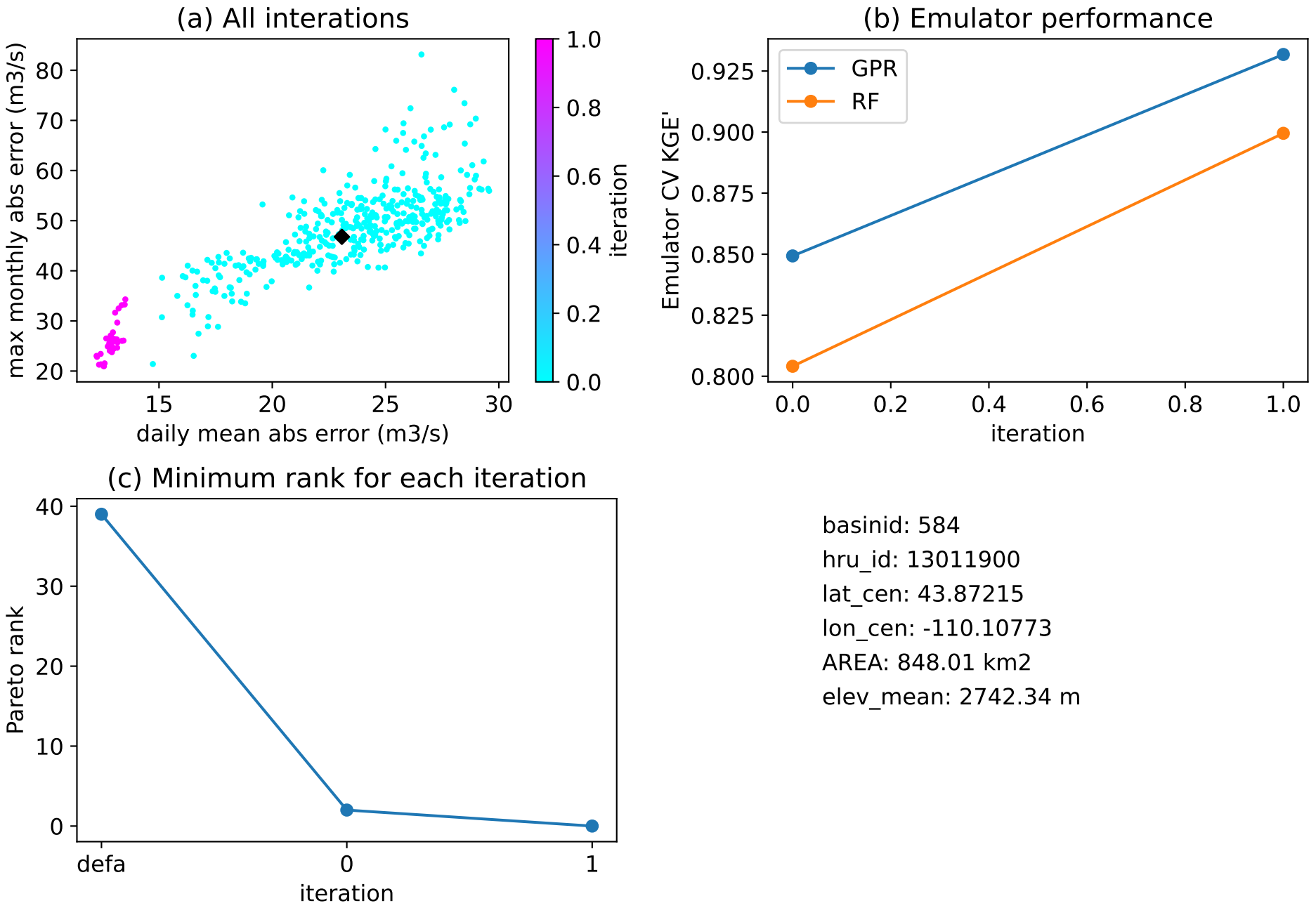
basinid: 582
hru_id: 12488500
lat_cen: 46.91894
lon_cen: -121.37304
AREA: 206.11 km2
elev_mean: 1483.15 m

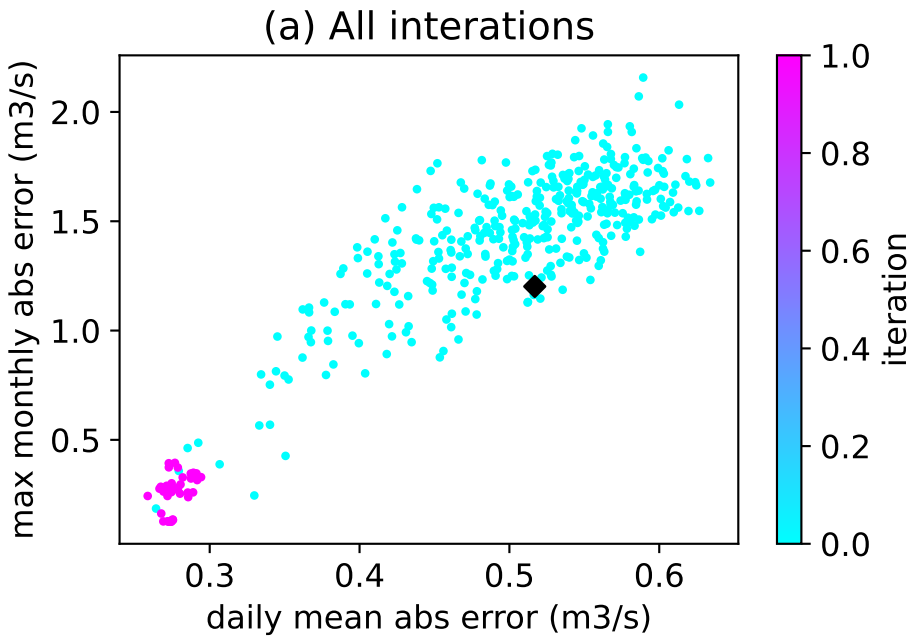


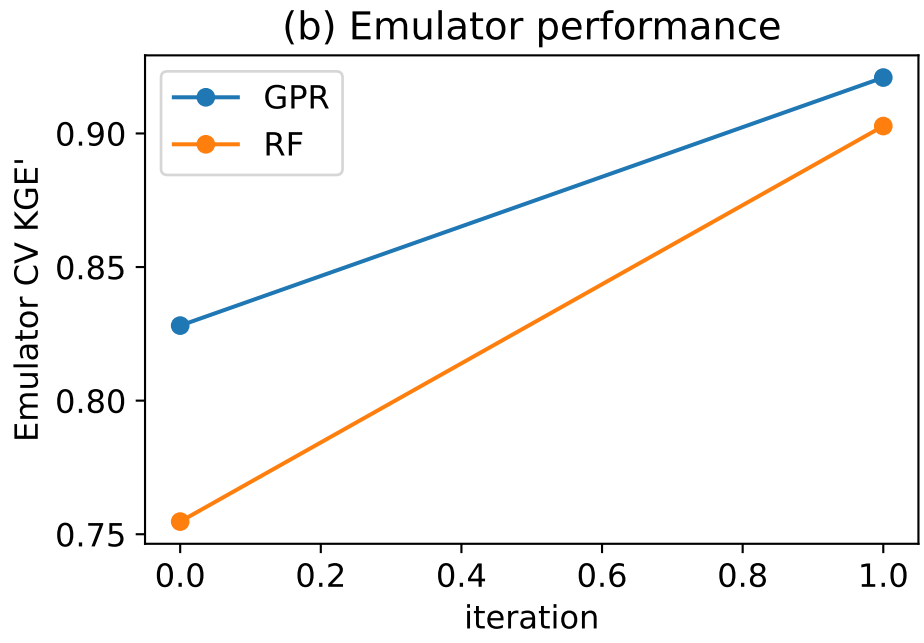


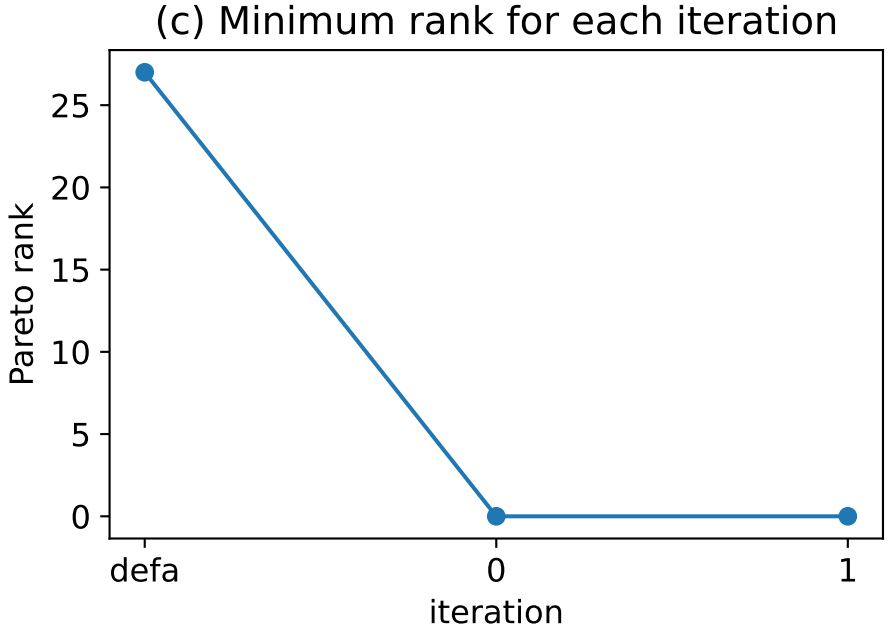


basinid: 583
hru_id: 13011500
lat_cen: 43.988
lon_cen: -110.35561
AREA: 405.21 km2
elev_mean: 2469.09 m

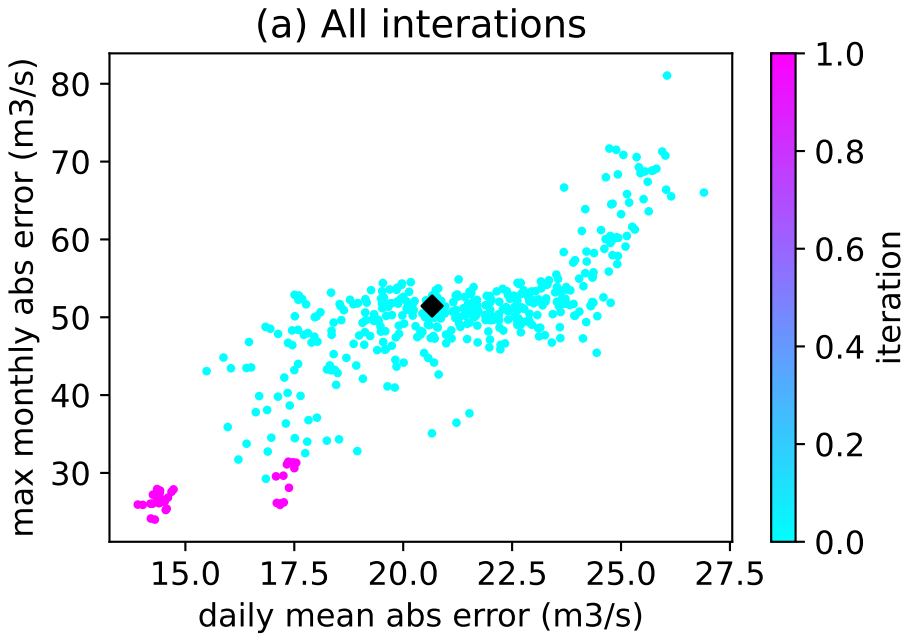

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
GPR
RF
Emulator CV KGE'
iteration
(c) Minimum rank for each iteration
Pareto rank
defa
iteration
basinid: 584
hru_id: 13011900
lat_cen: 43.87215
lon_cen: -110.10773
AREA: 848.01 km2
elev_mean: 2742.34 m

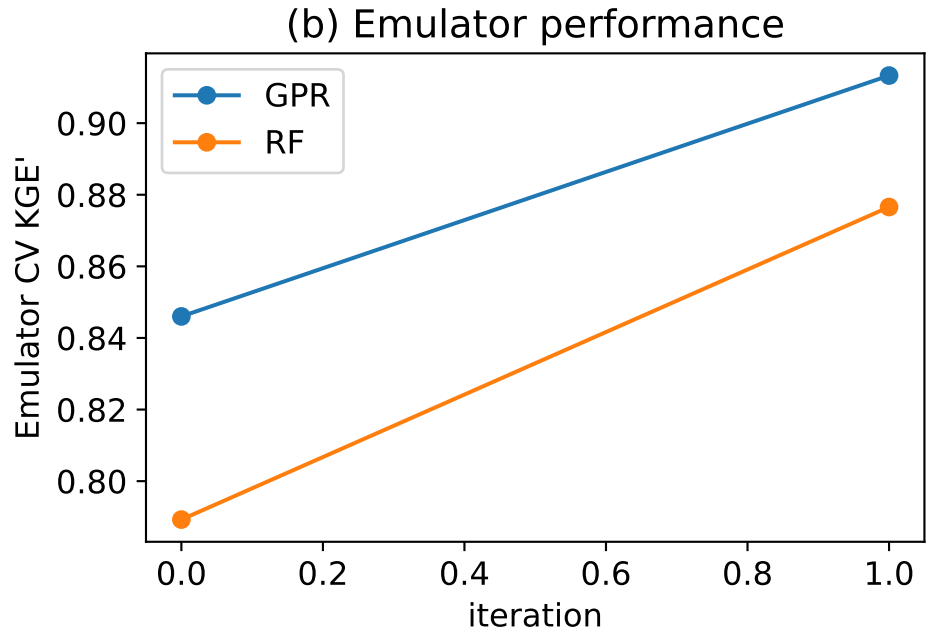


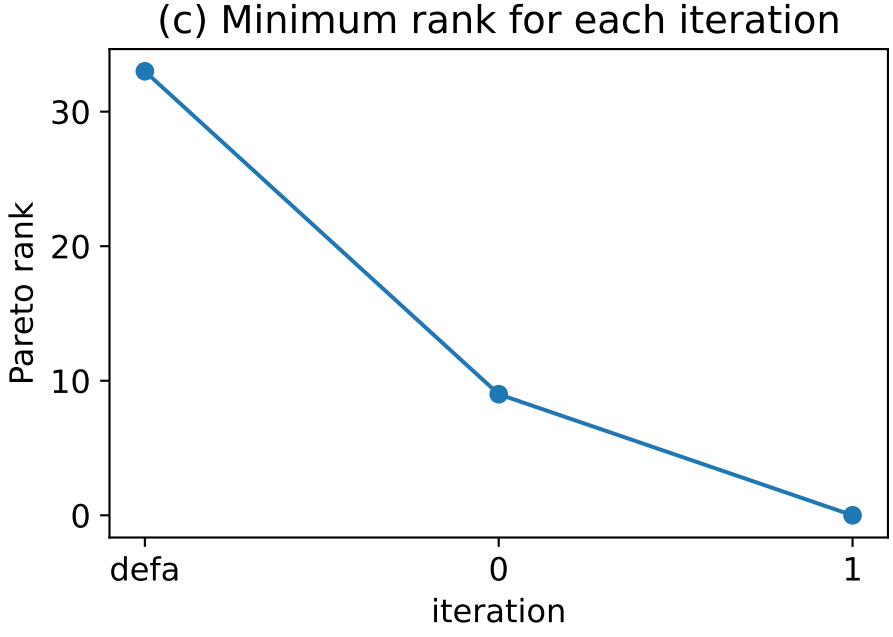




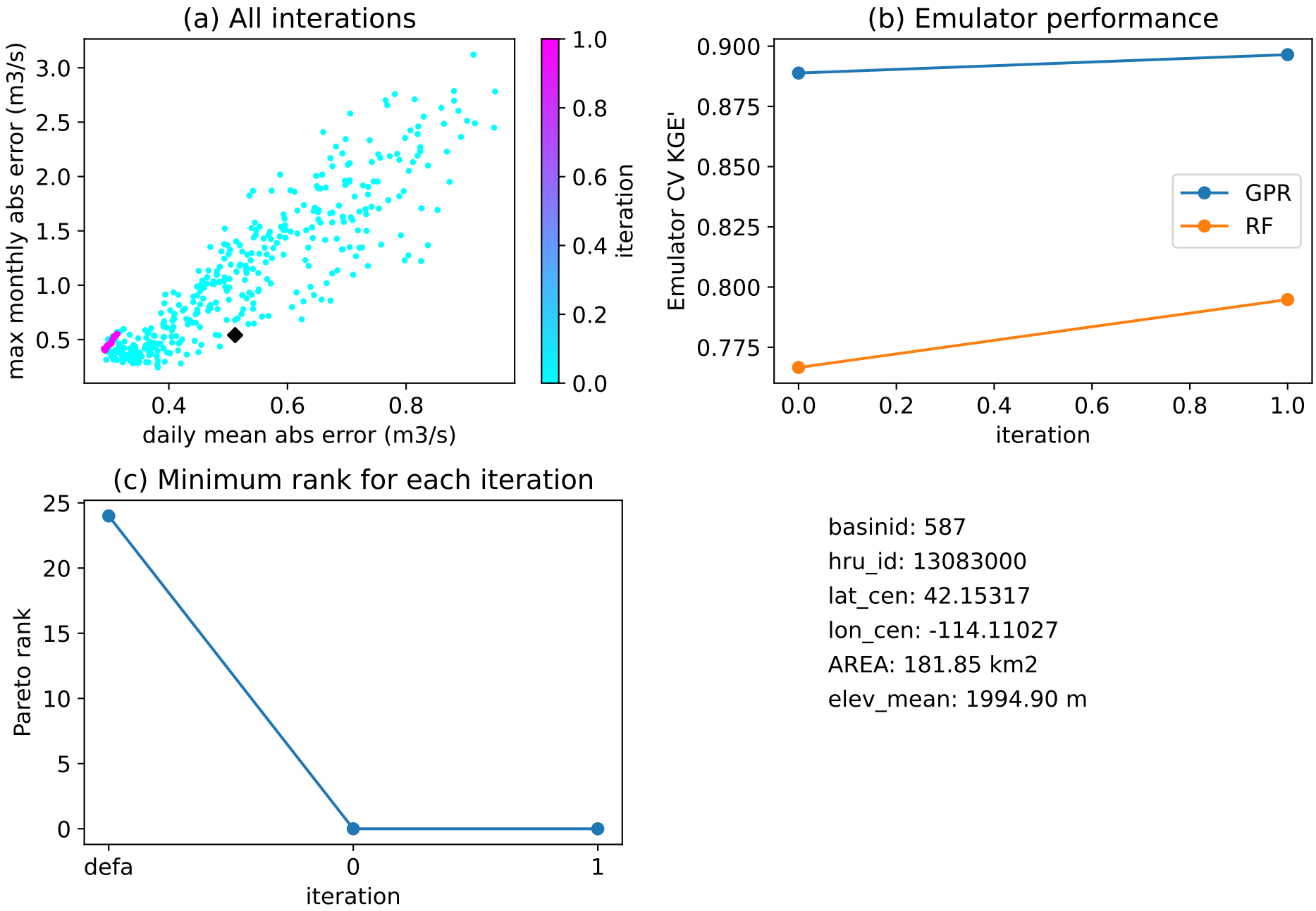
basinid: 585
hru_id: 13018300
lat_cen: 43.44024
lon_cen: -110.65675
AREA: 29.47 km2
elev_mean: 2544.87 m

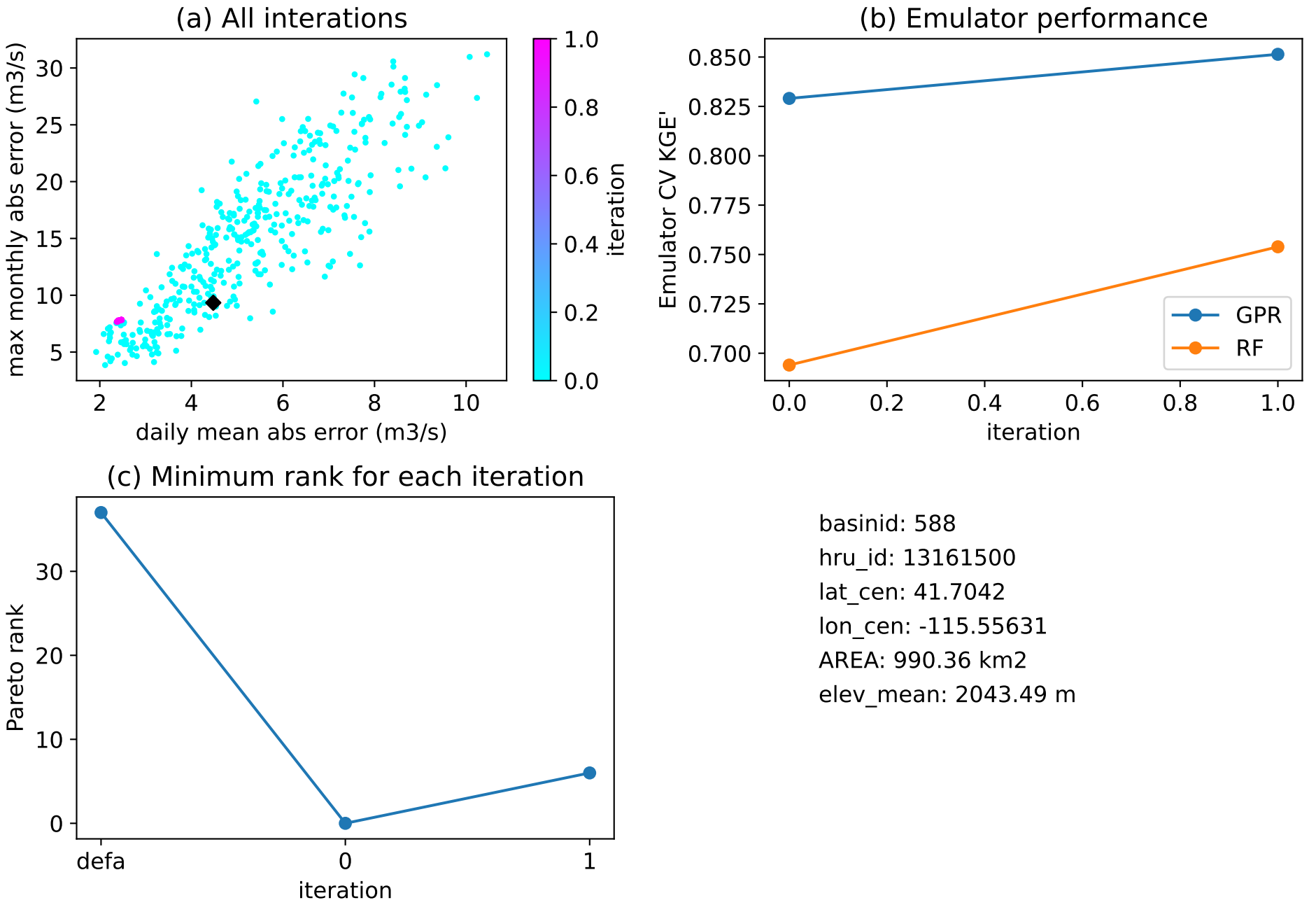


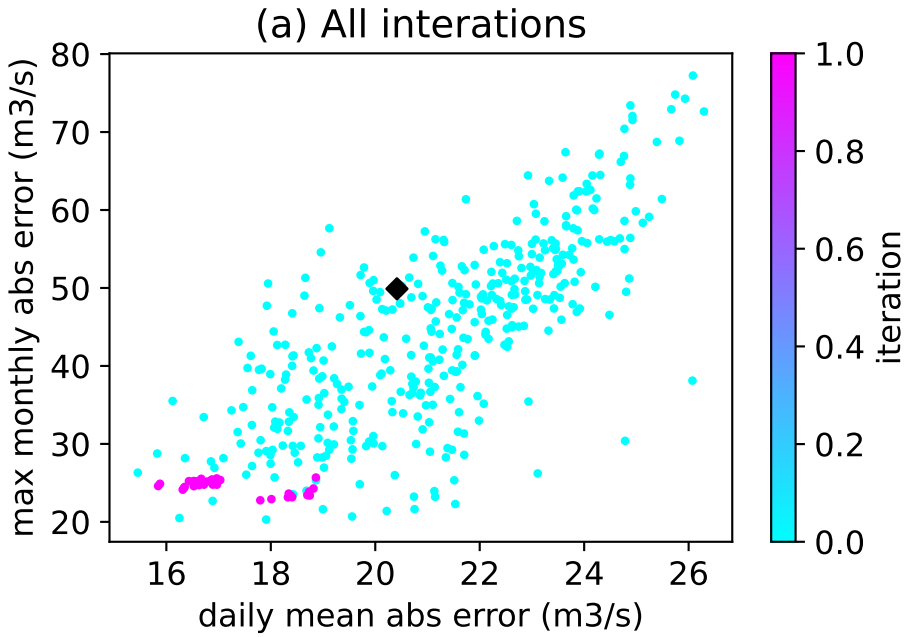


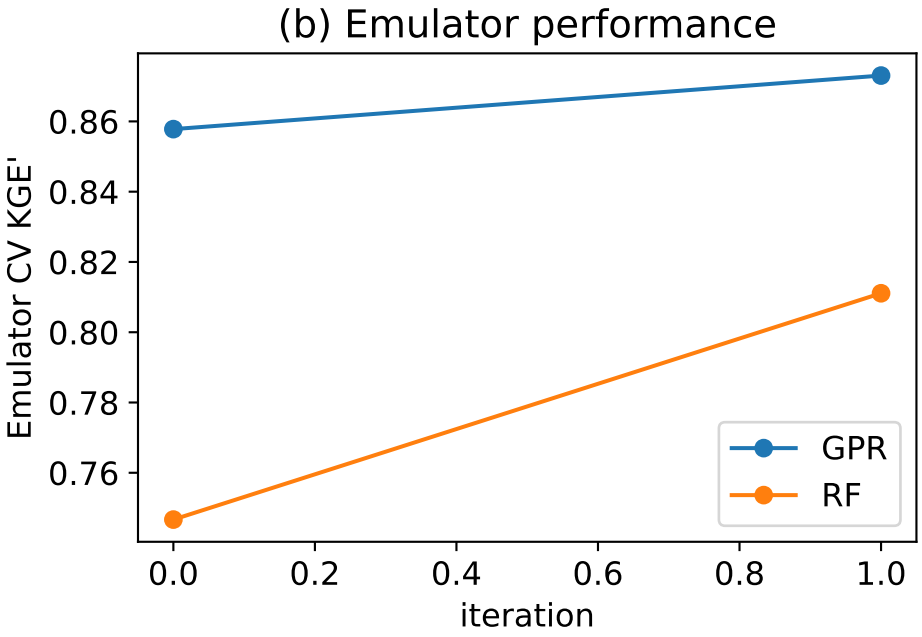


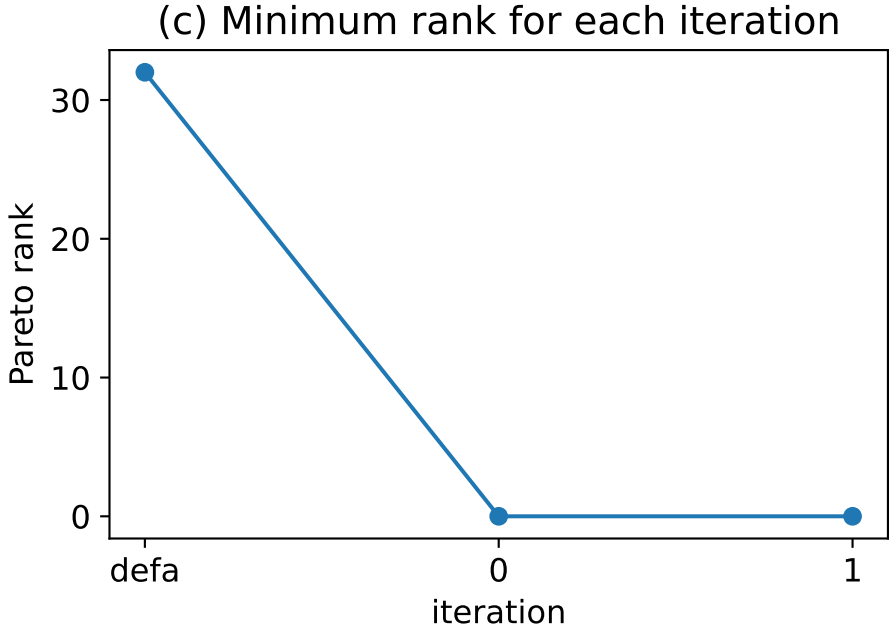
basinid: 586
hru_id: 13023000
lat_cen: 42.90541
lon_cen: -110.73945
AREA: 1163.74 km2
elev_mean: 2468.38 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 587
hru_id: 13083000
lat_cen: 42.15317
lon_cen: -114.11027
AREA: 181.85 km2
elev_mean: 1994.90 m

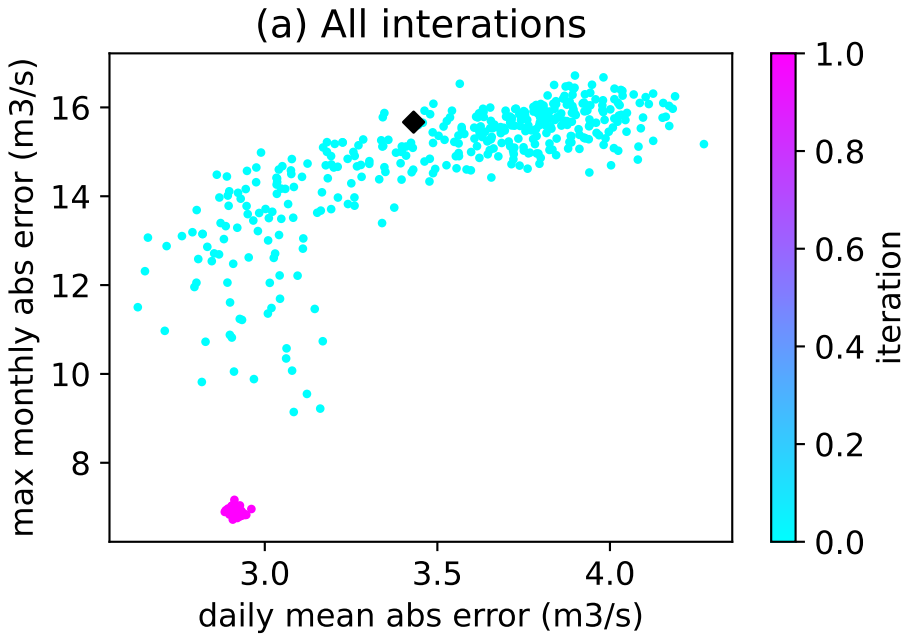

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 588
hru_id: 13161500
lat_cen: 41.7042
lon_cen: -115.55631
AREA: 990.36 km2
elev_mean: 2043.49 m

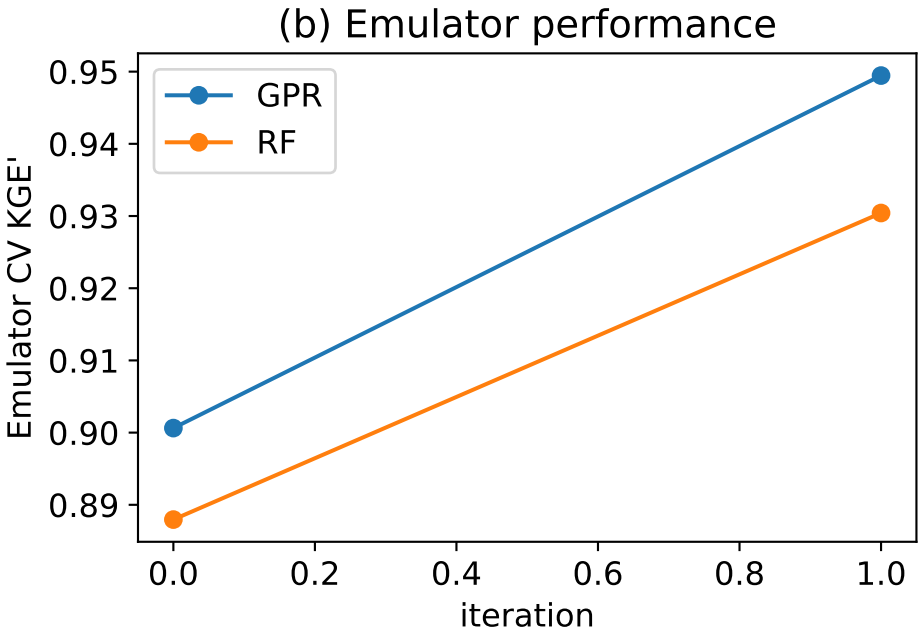


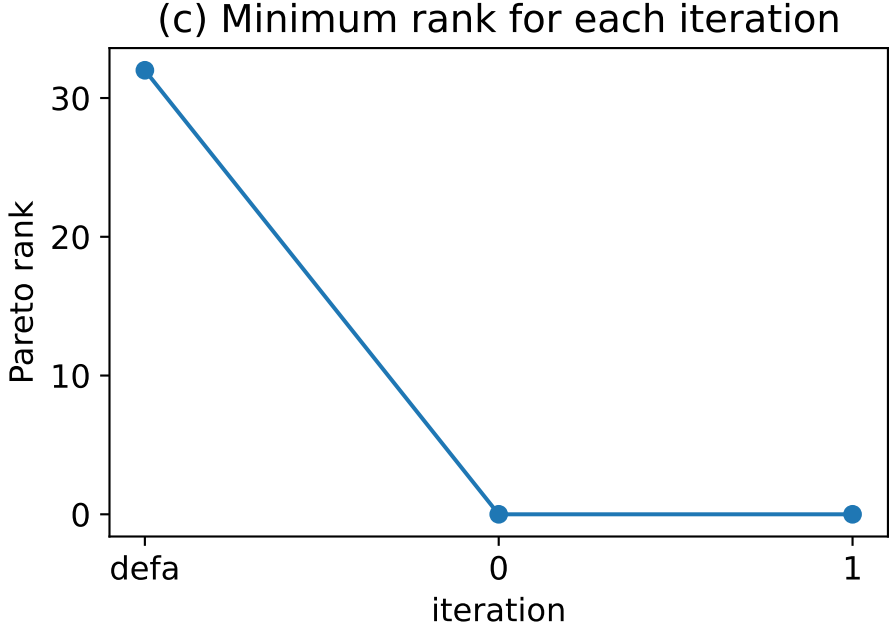




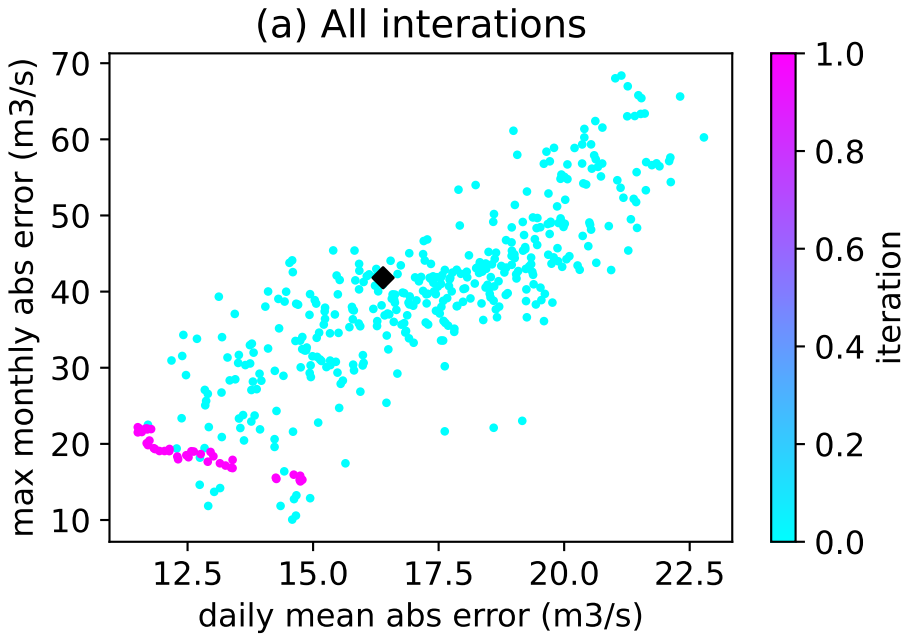
basinid: 589
hru_id: 13235000
lat_cen: 44.14179
lon_cen: -115.30613
AREA: 1158.49 km2
elev_mean: 2093.45 m

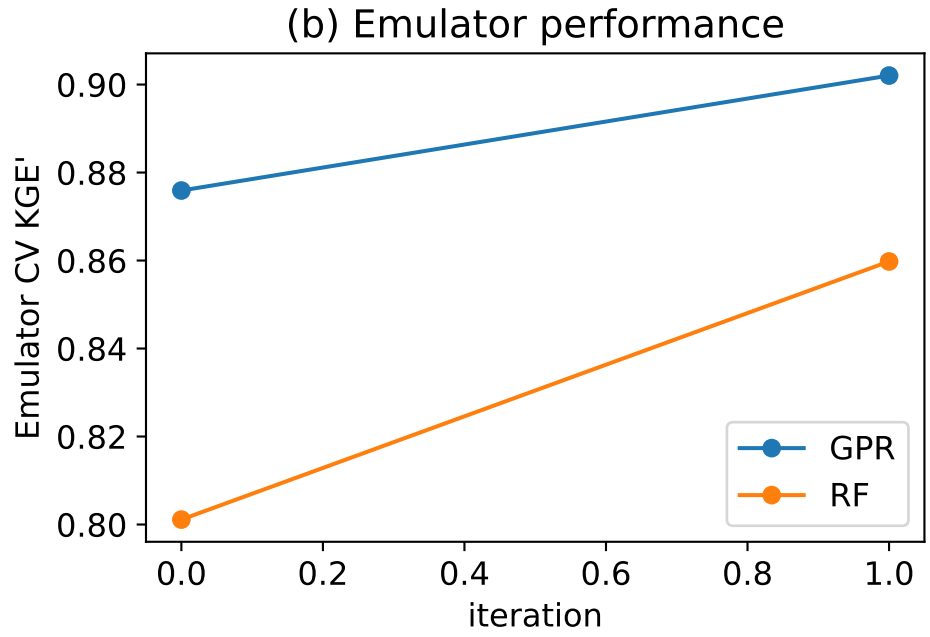


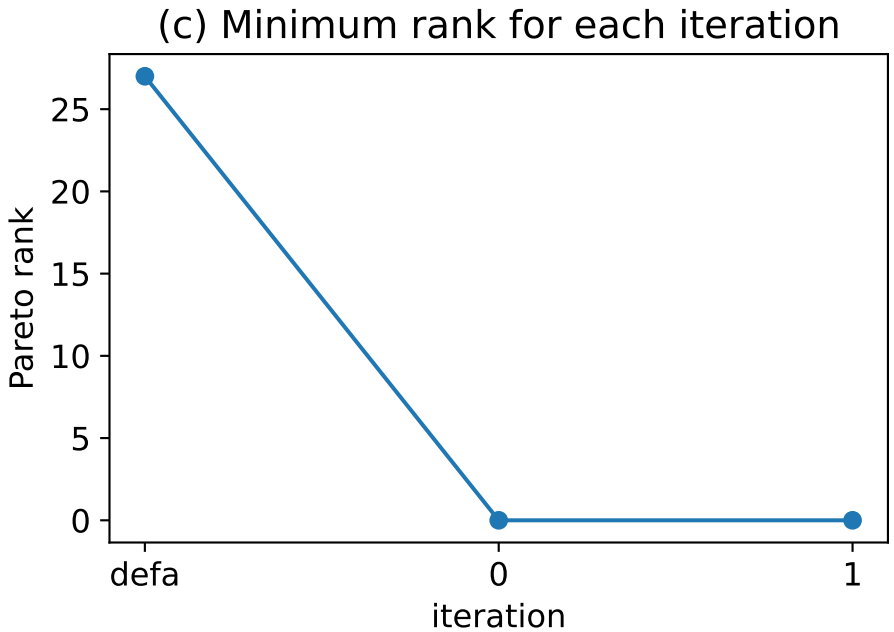




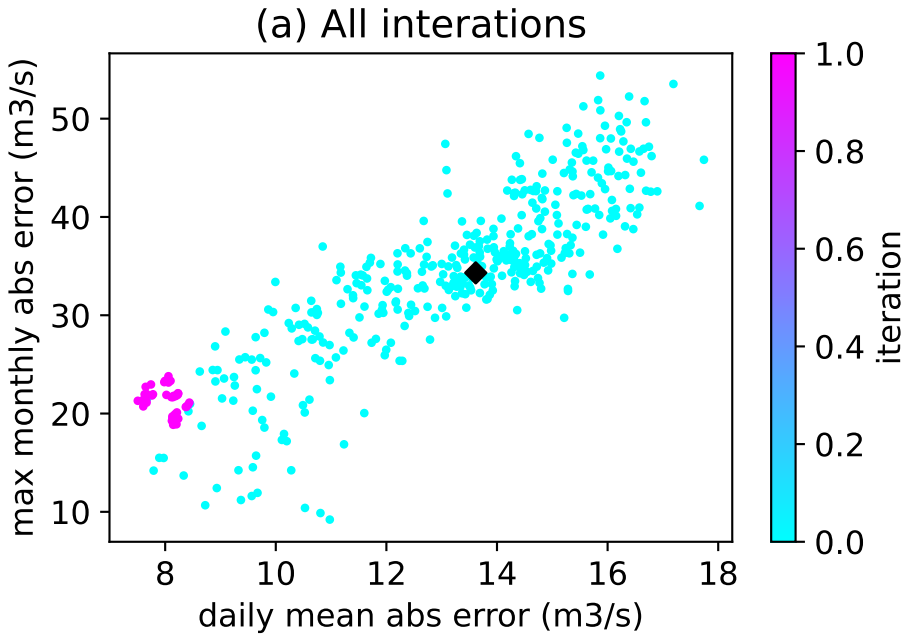
basinid: 590
hru_id: 13240000
lat_cen: 44.95118
lon_cen: -115.92988
AREA: 126.02 km2
elev_mean: 2131.40 m

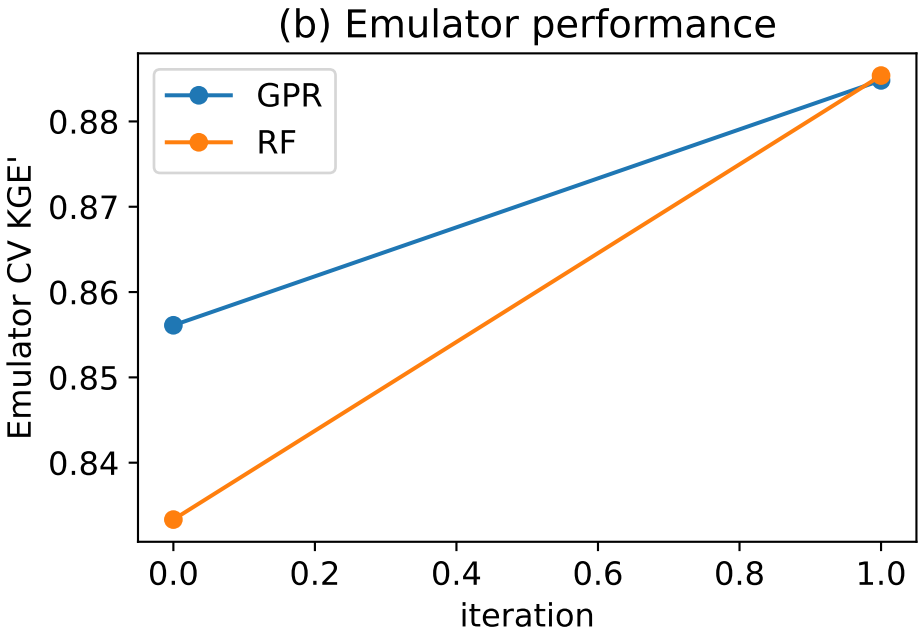


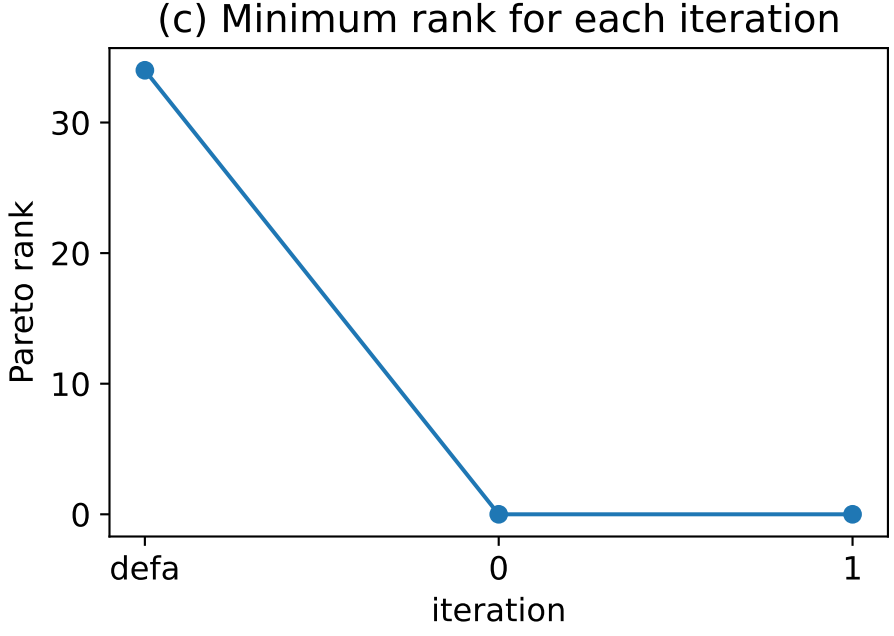




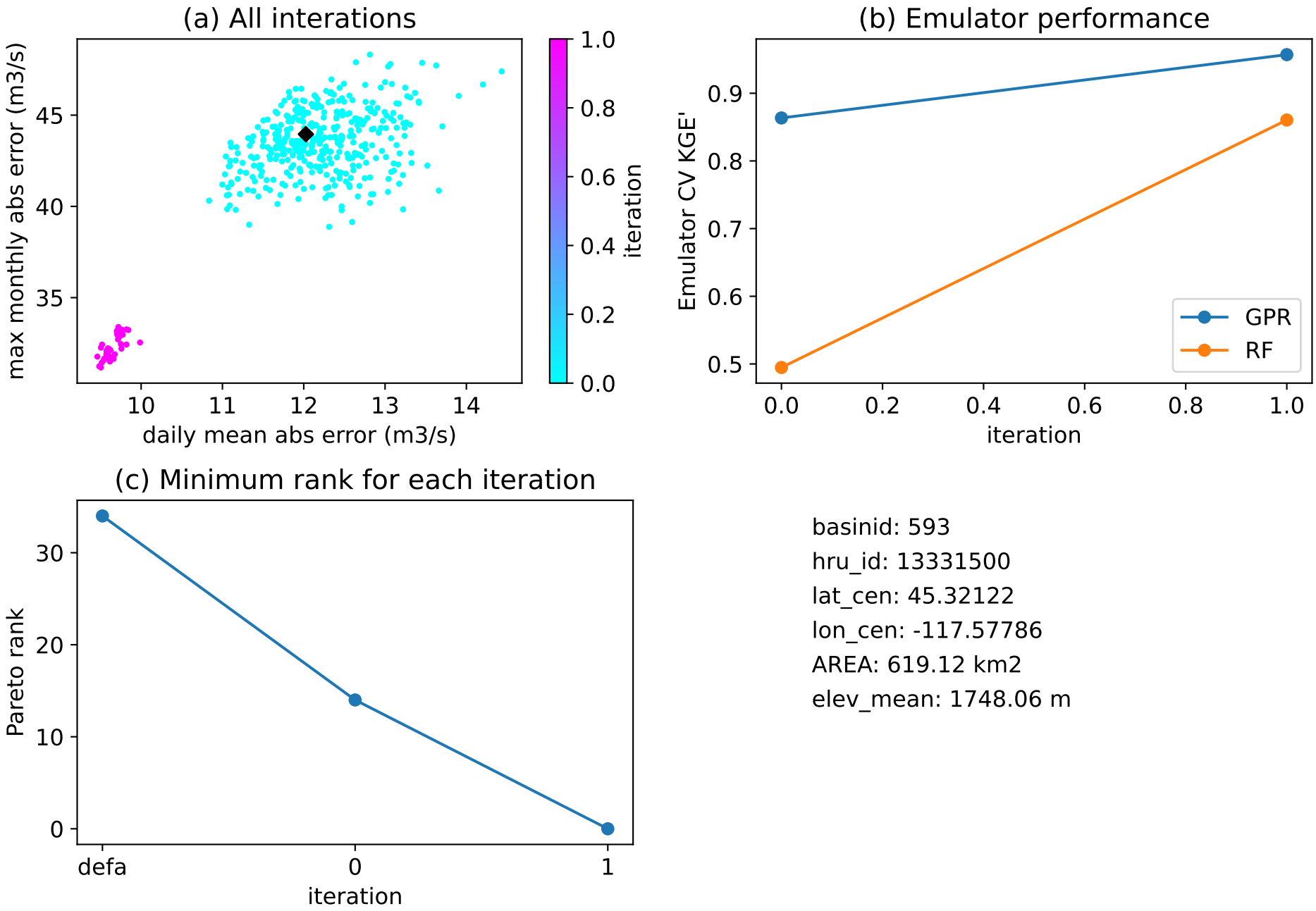
basinid: 591
hru_id: 13310700
lat_cen: 44.74935
lon_cen: -115.71912
AREA: 854.76 km2
elev_mean: 1935.79 m

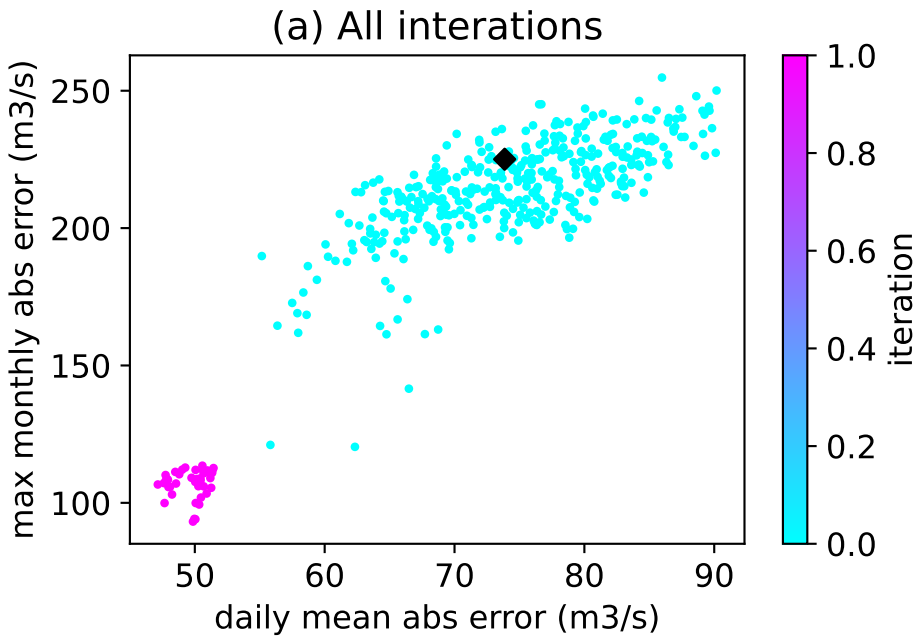


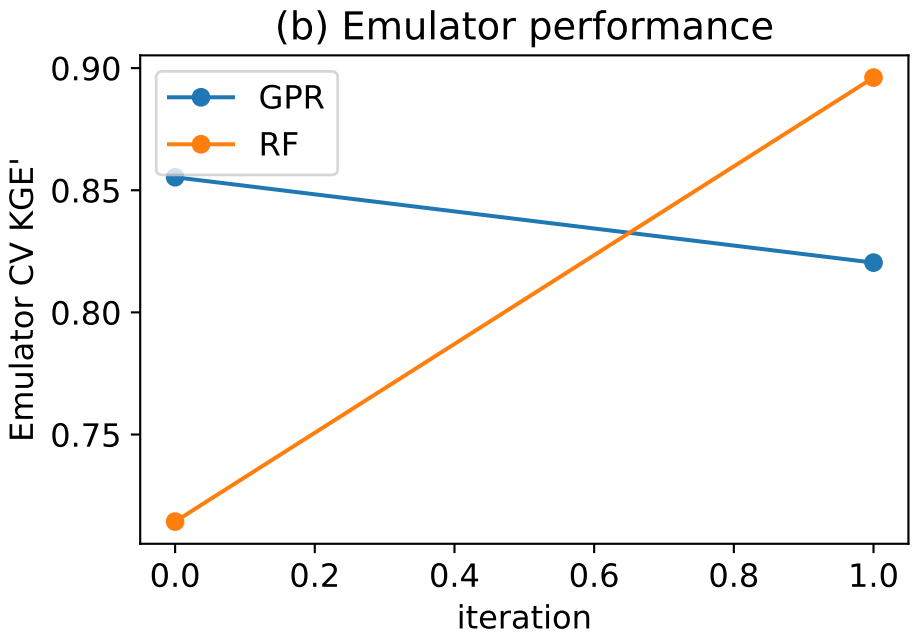


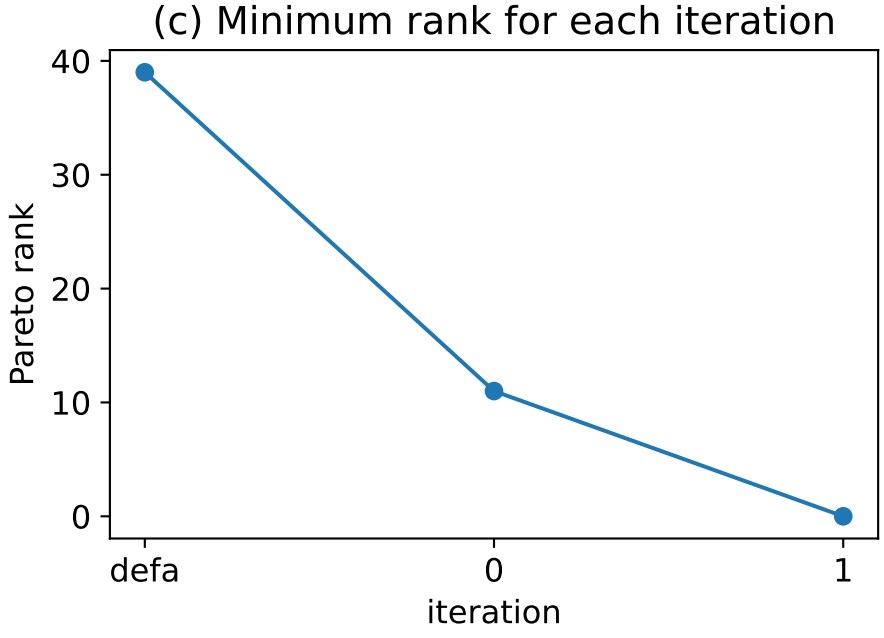


basinid: 592
hru_id: 13313000
lat_cen: 44.74458
lon_cen: -115.50648
AREA: 564.97 km2
elev_mean: 2182.05 m

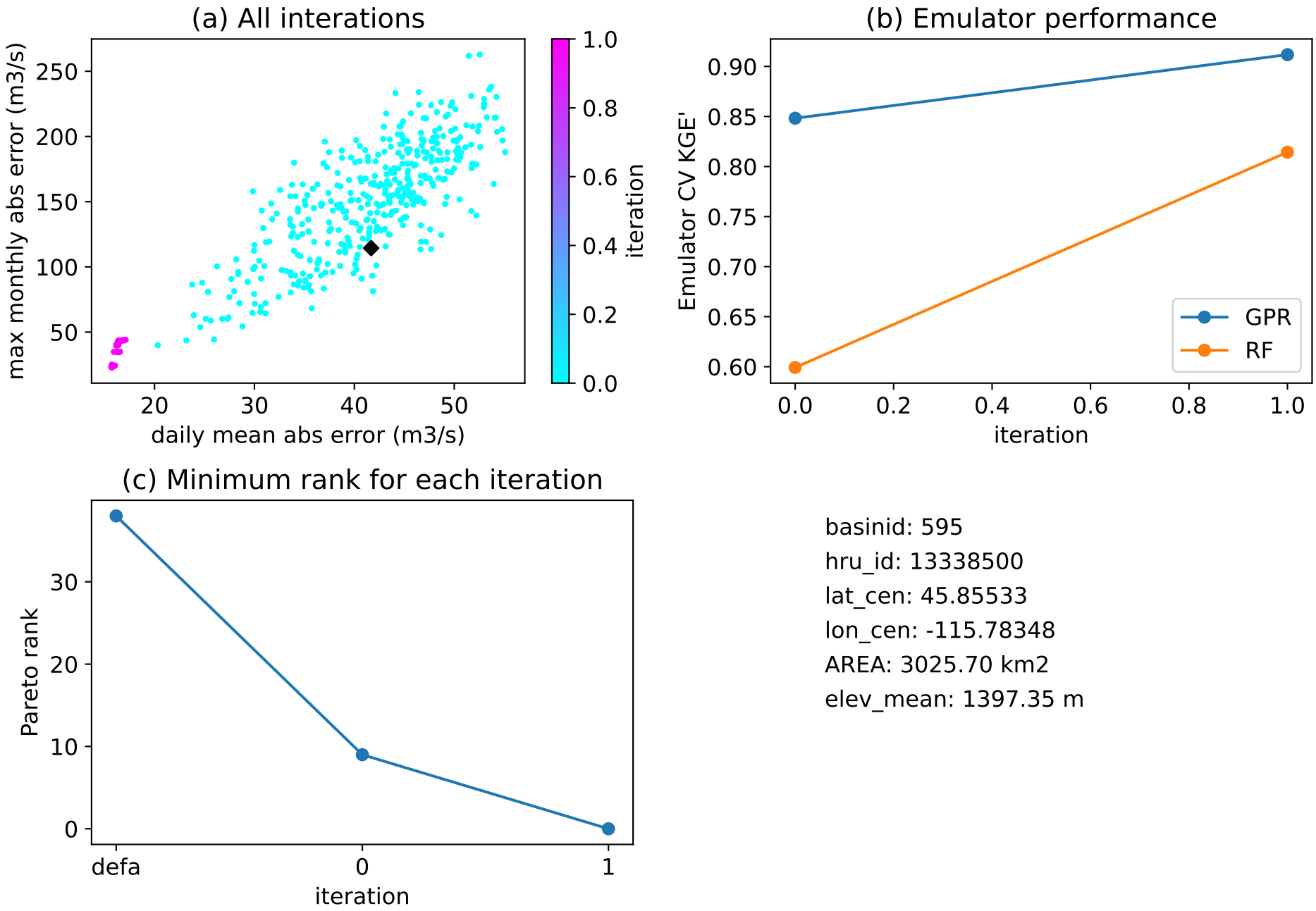

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 593
hru_id: 13331500
lat_cen: 45.32122
lon_cen: -117.57786
AREA: 619.12 km2
elev_mean: 1748.06 m

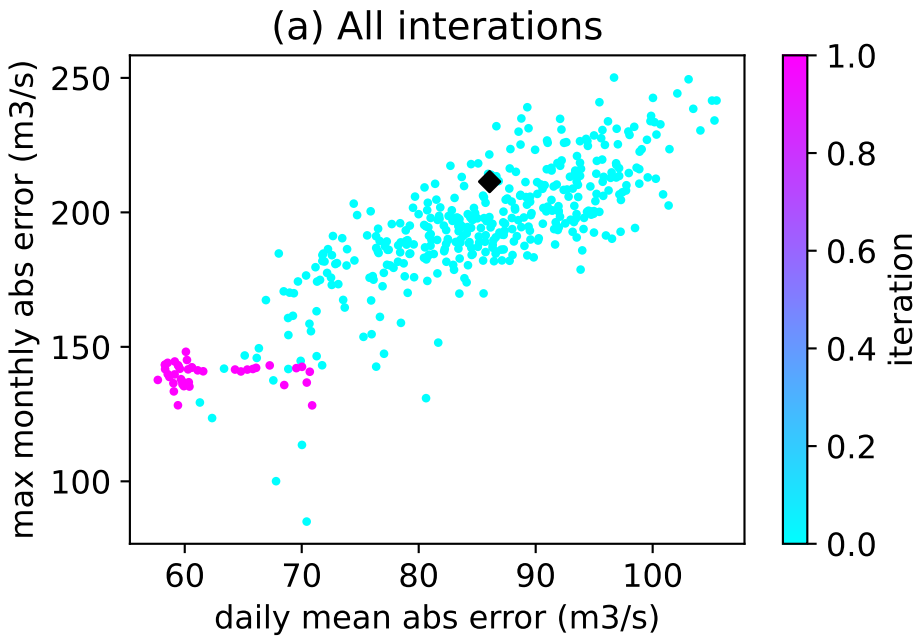


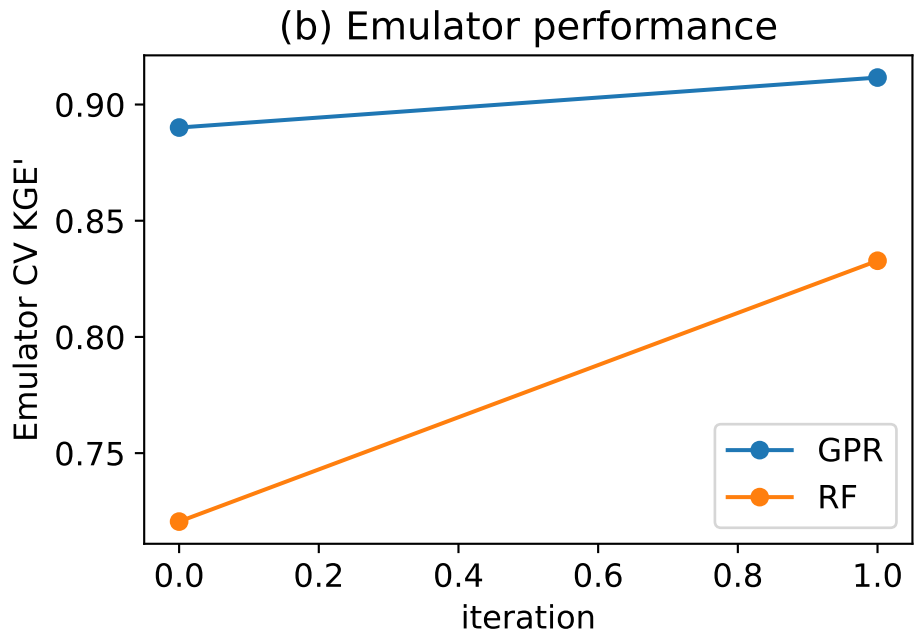


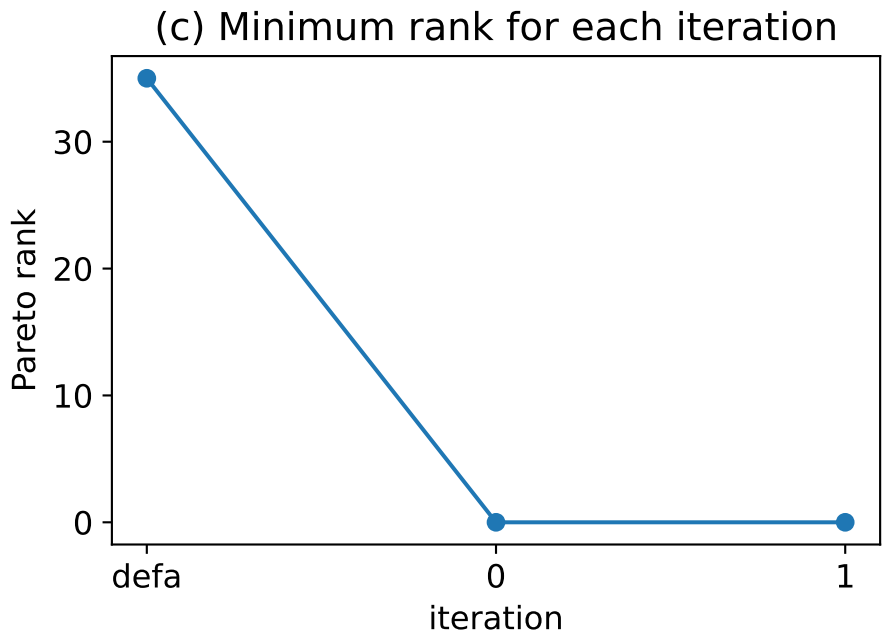


basinid: 594
hru_id: 13337000
lat_cen: 46.41229
lon_cen: -114.95985
AREA: 3052.72 km2
elev_mean: 1594.98 m

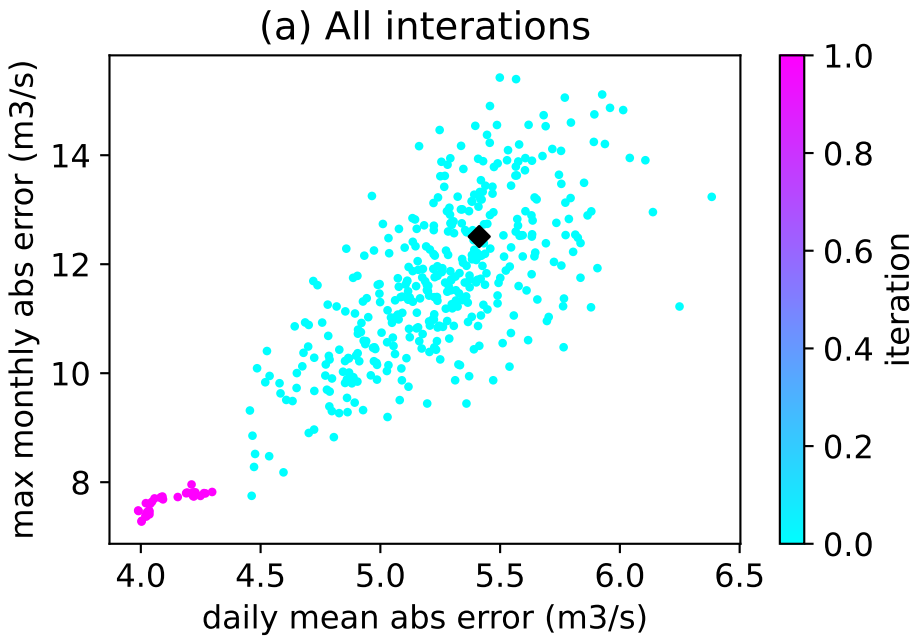

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 595
hru_id: 13338500
lat_cen: 45.85533
lon_cen: -115.78348
AREA: 3025.70 km2
elev_mean: 1397.35 m

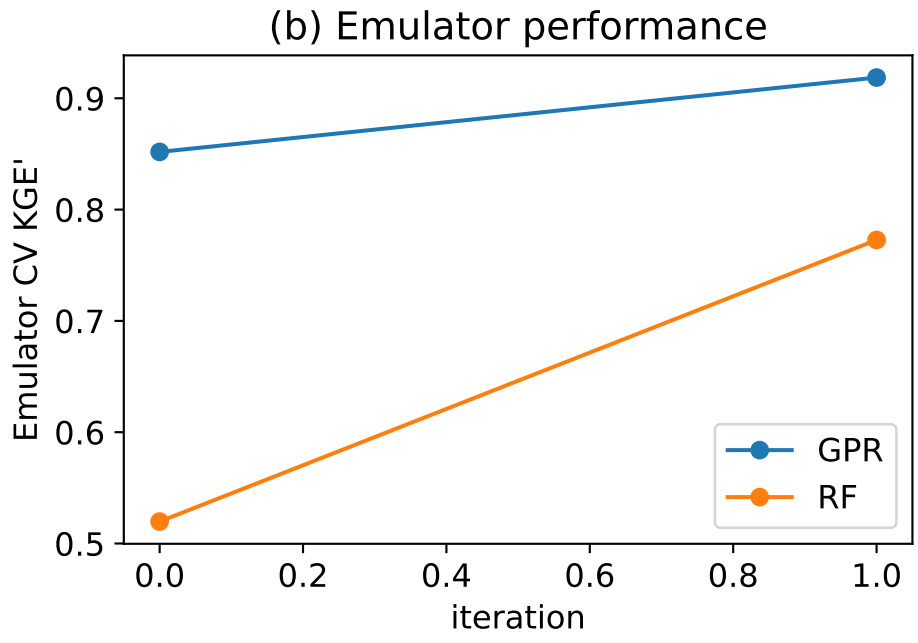


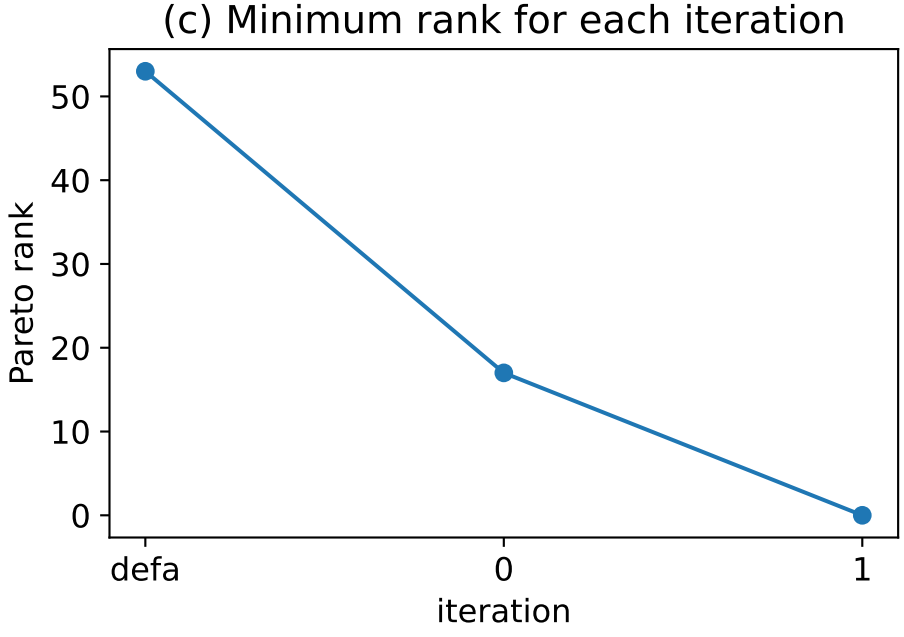




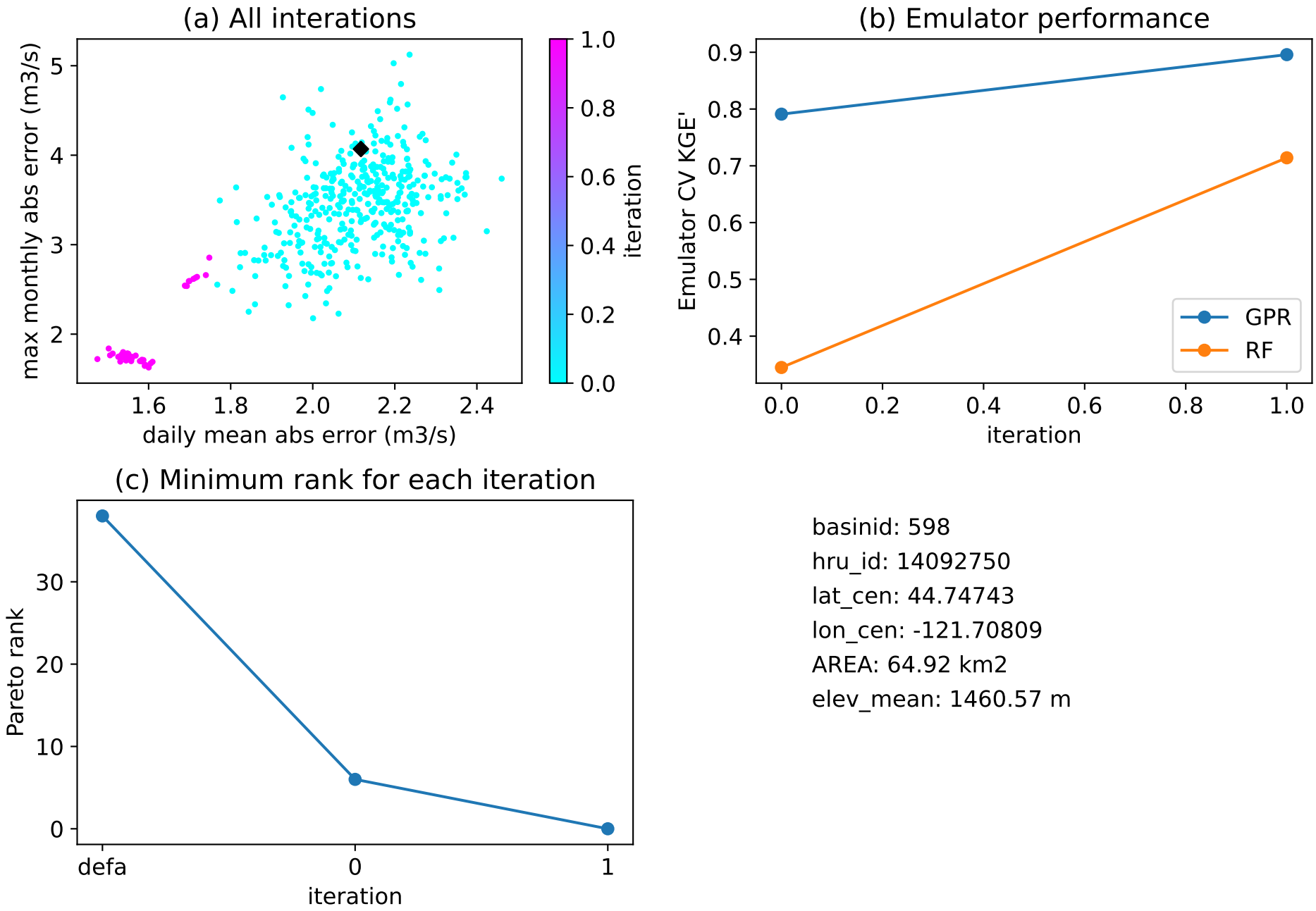
basinid: 596
hru_id: 13340600
lat_cen: 46.70034
lon_cen: -115.27194
AREA: 3354.67 km2
elev_mean: 1461.89 m

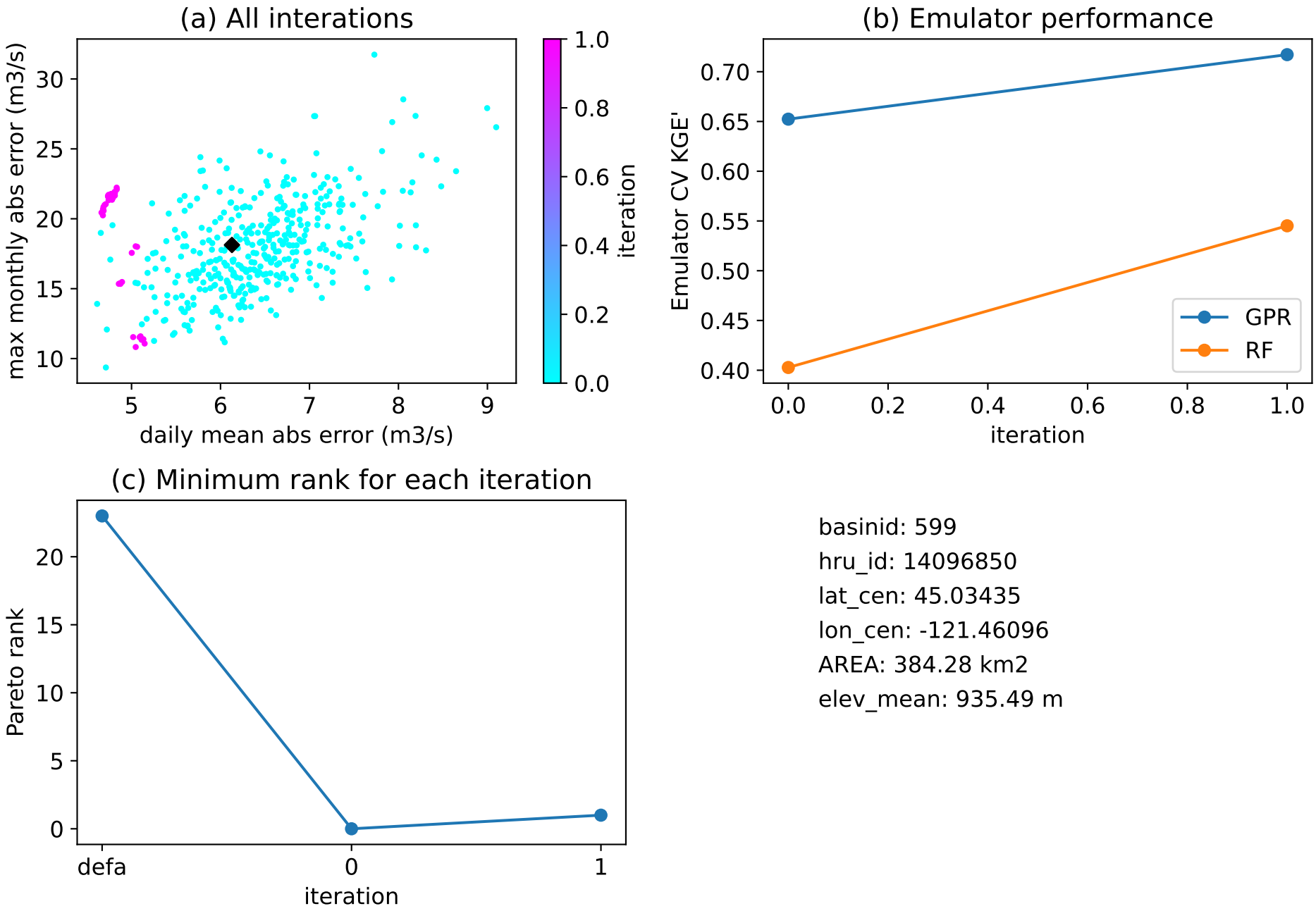


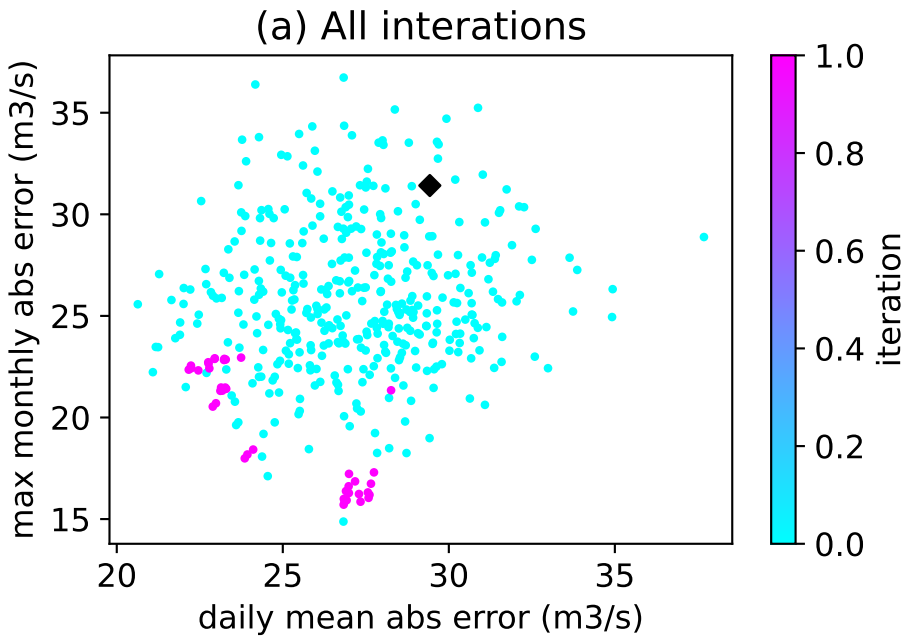


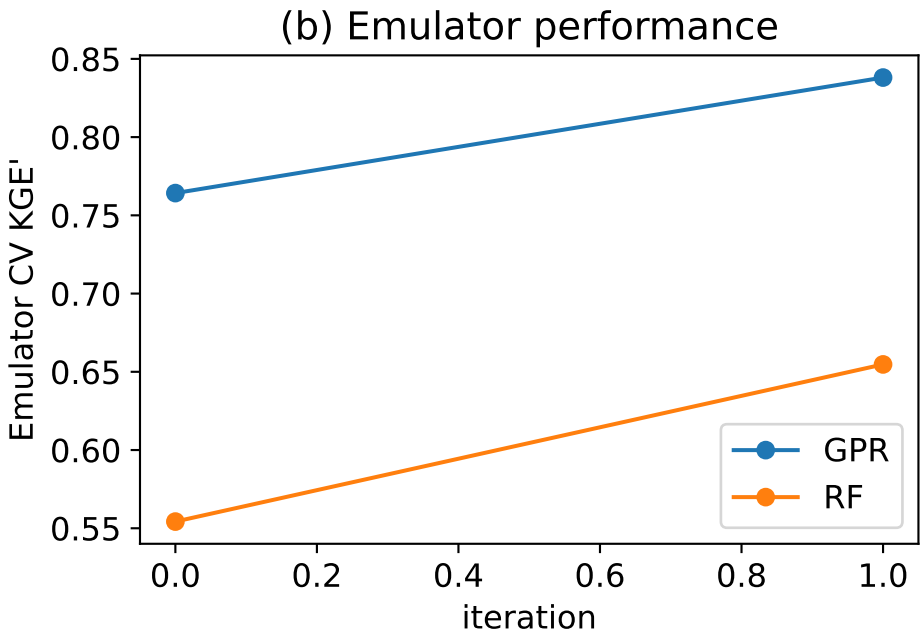


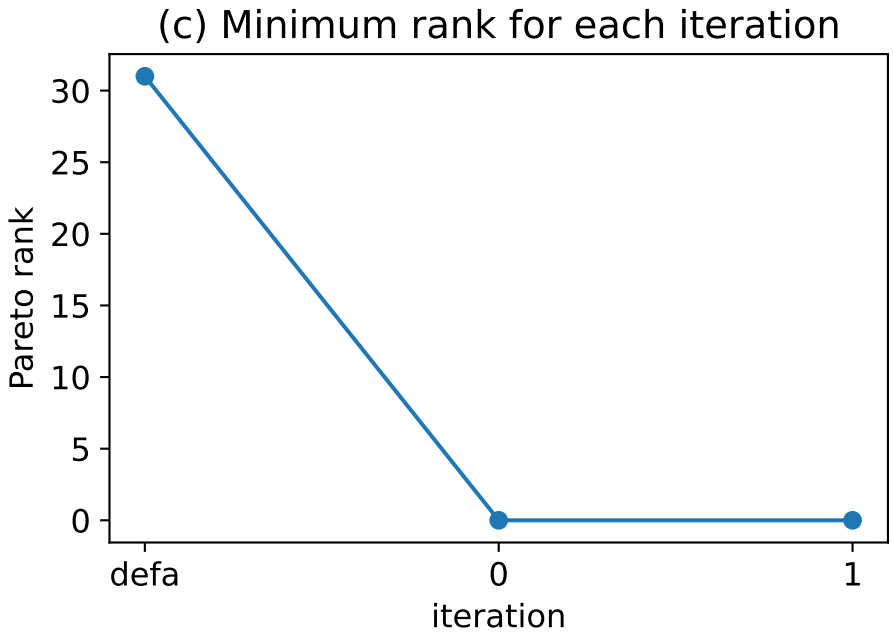
basinid: 597
hru_id: 14020000
lat_cen: 45.69477
lon_cen: -118.18835
AREA: 343.47 km2
elev_mean: 1207.14 m


(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 598
hru_id: 14092750
lat_cen: 44.74743
lon_cen: -121.70809
AREA: 64.92 km2
elev_mean: 1460.57 m

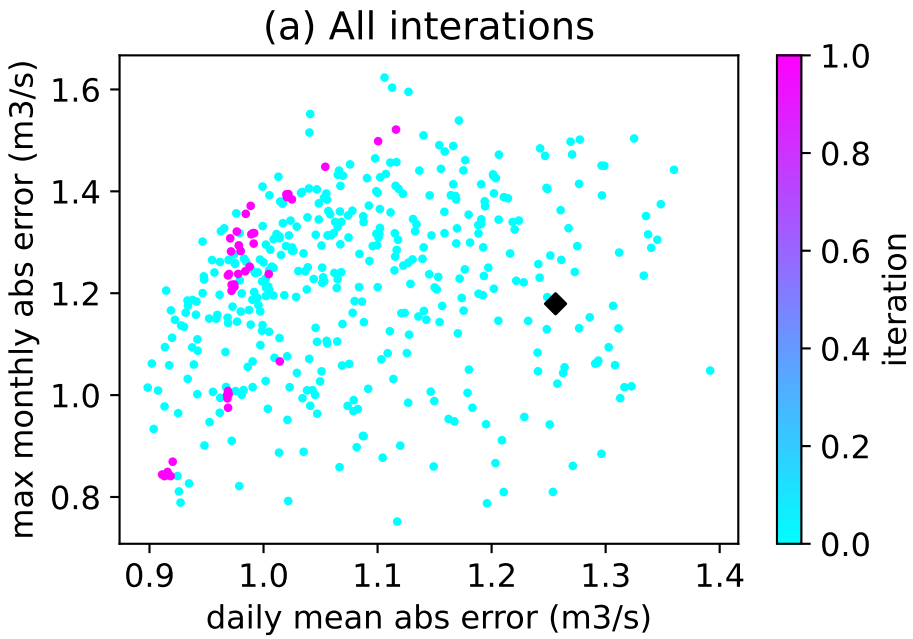

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 599
hru_id: 14096850
lat_cen: 45.03435
lon_cen: -121.46096
AREA: 384.28 km2
elev_mean: 935.49 m

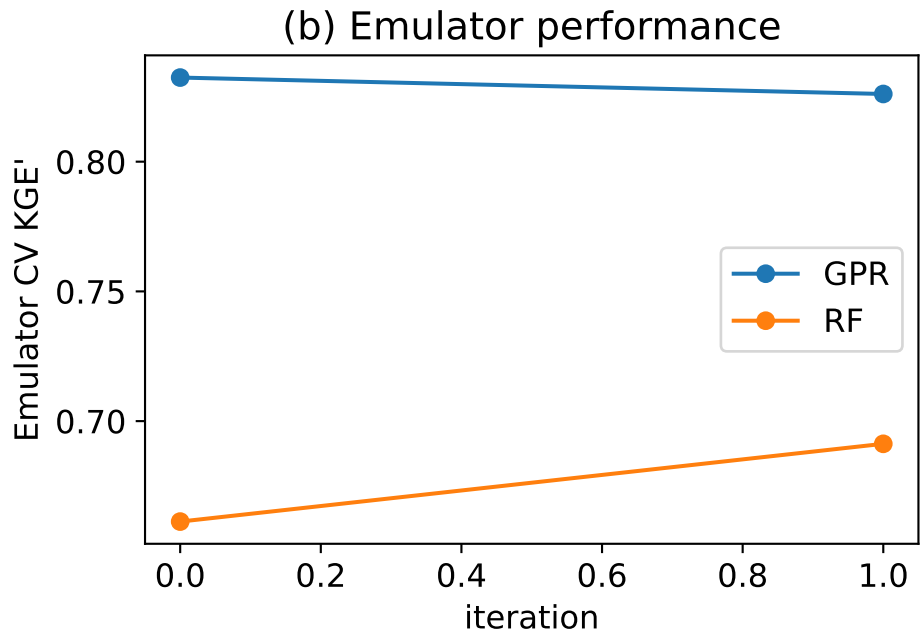


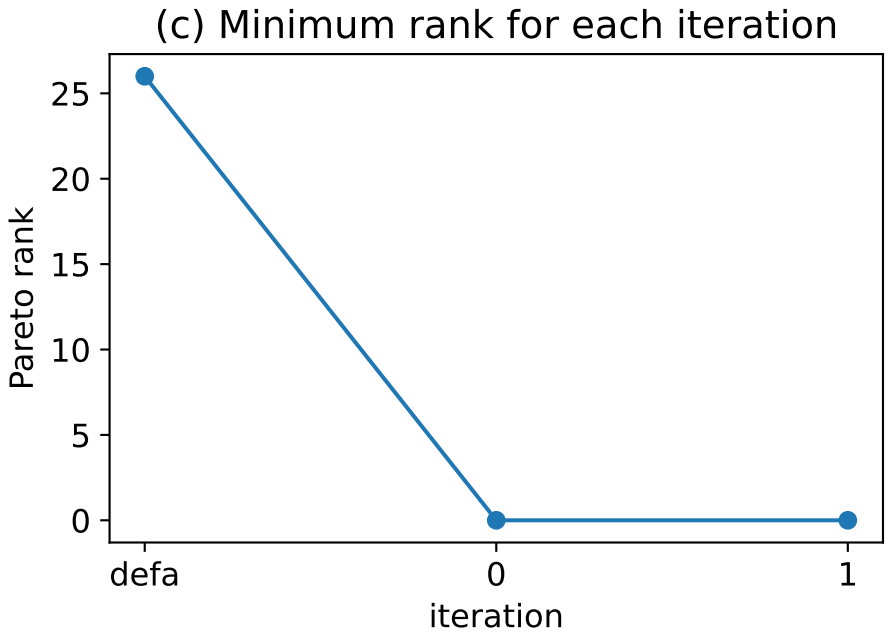




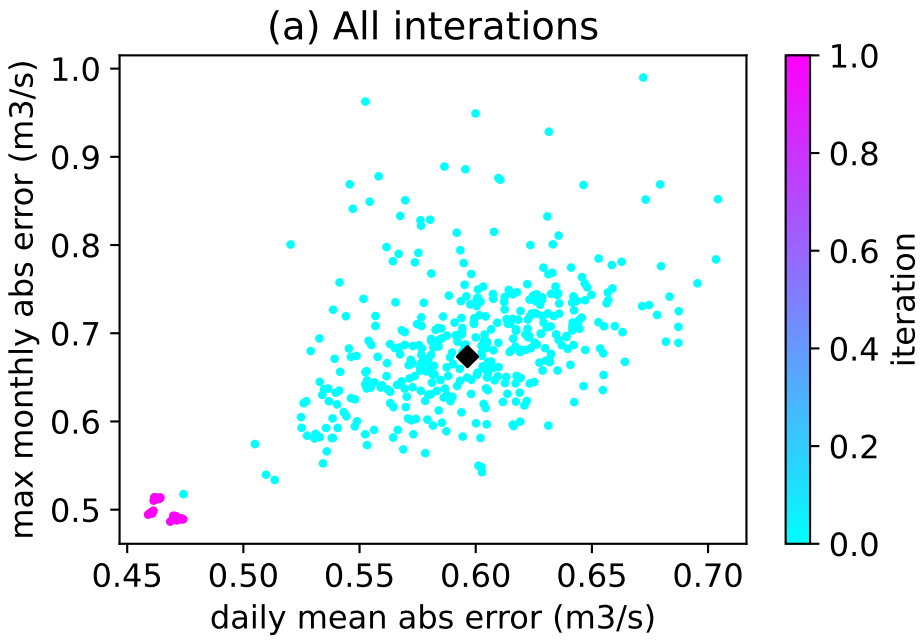
basinid: 600
hru_id: 14137000
lat_cen: 45.30801
lon_cen: -121.87651
AREA: 676.46 km2
elev_mean: 999.87 m

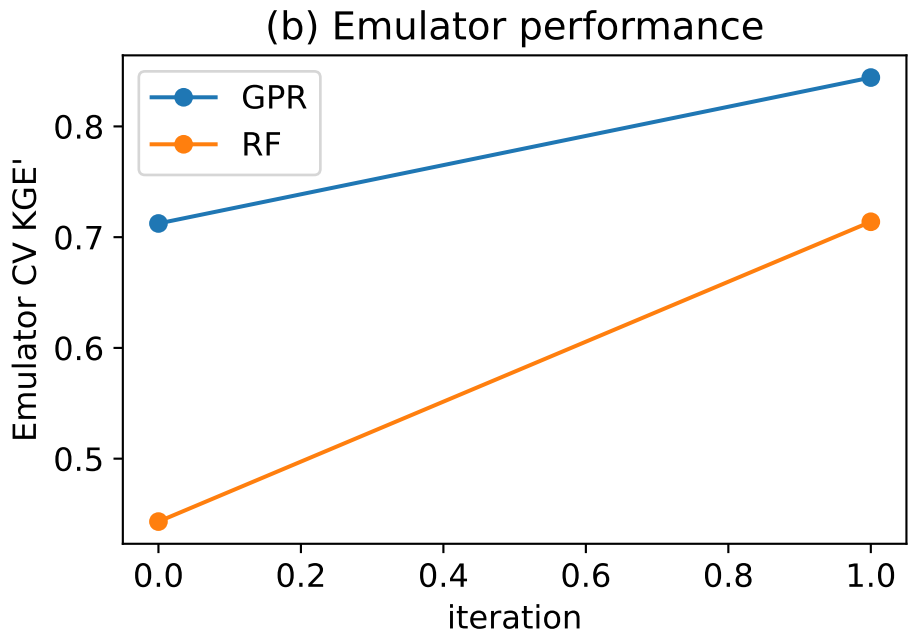


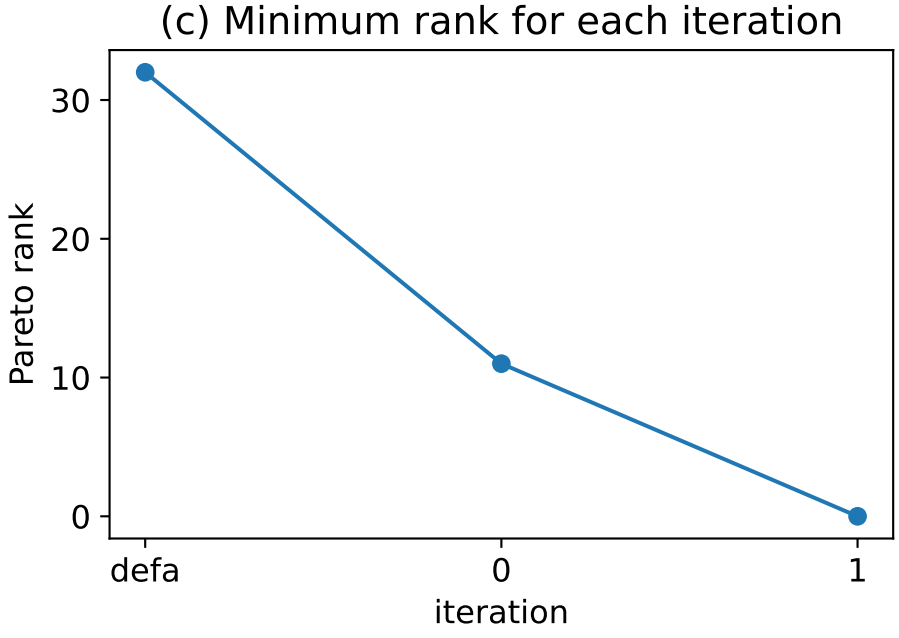




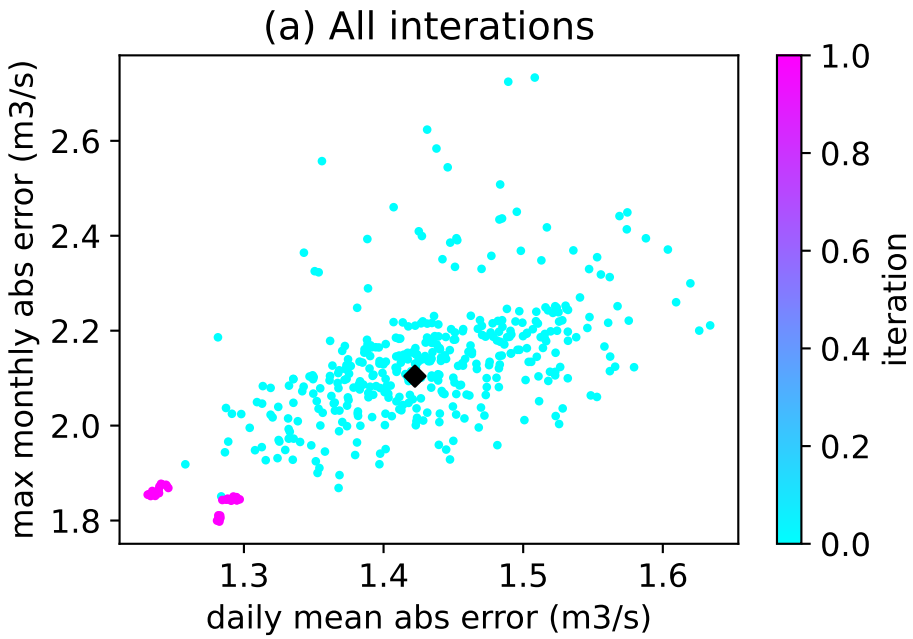
basinid: 601
hru_id: 14138800
lat_cen: 45.43958
lon_cen: -121.87952
AREA: 21.83 km2
elev_mean: 1009.95 m

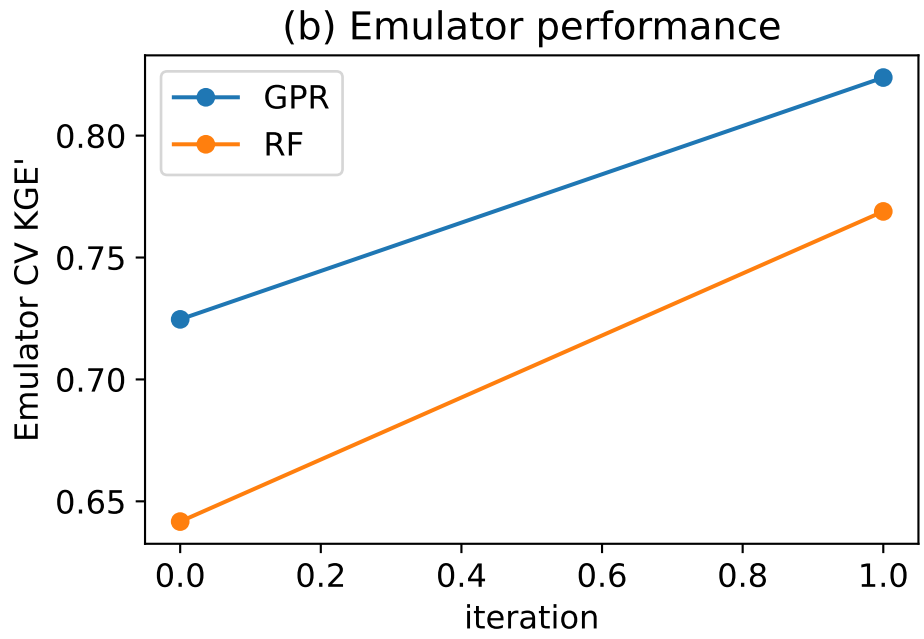


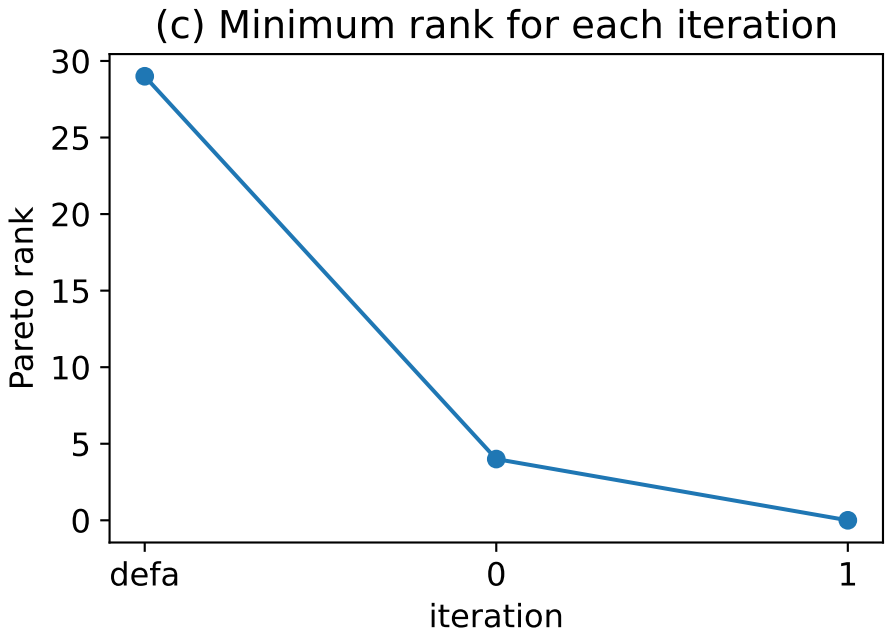




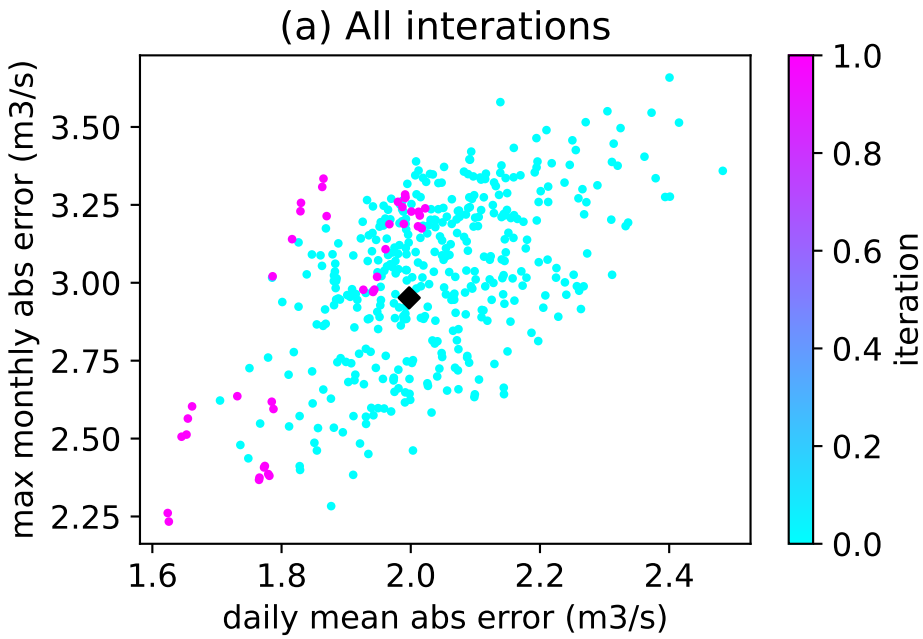
basinid: 602
hru_id: 14138870
lat_cen: 45.4718
lon_cen: -121.9875
AREA: 15.34 km2
elev_mean: 882.31 m

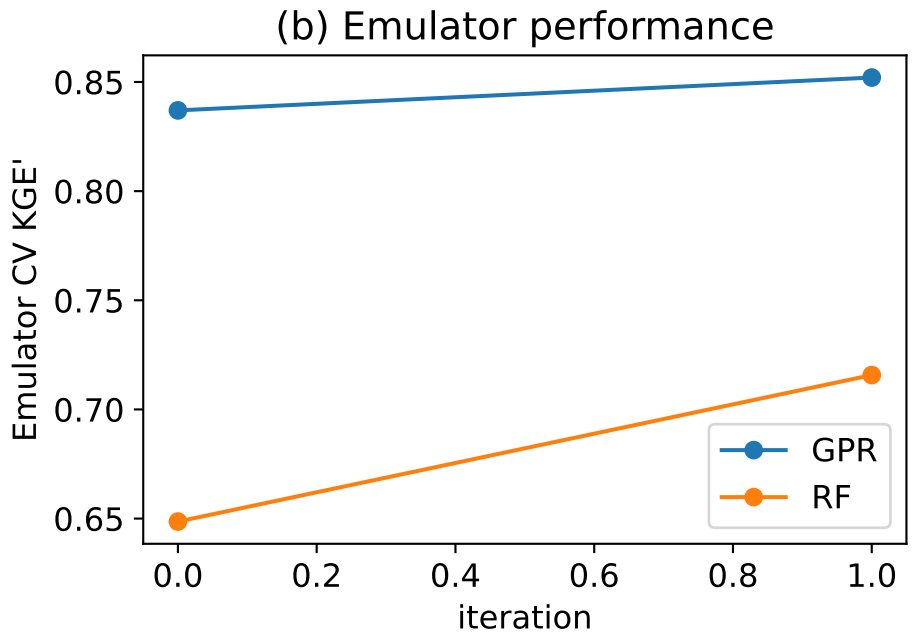


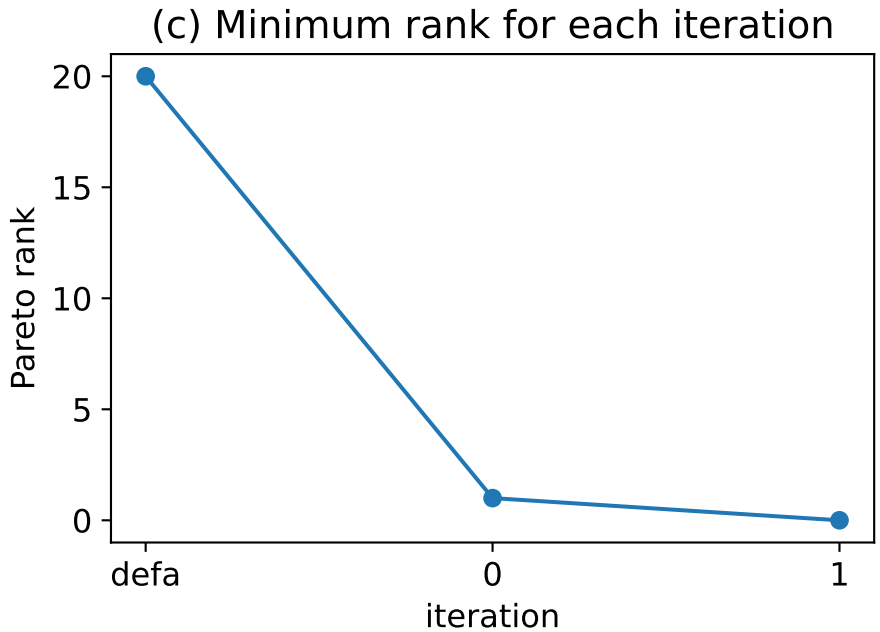




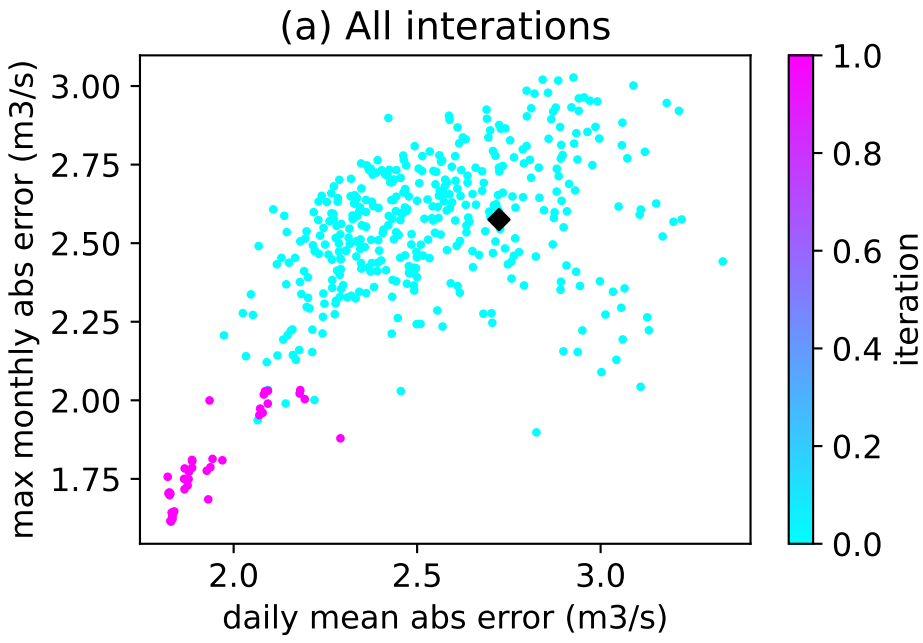
basinid: 603
hru_id: 14138900
lat_cen: 45.53408
lon_cen: -122.01723
AREA: 21.99 km2
elev_mean: 829.48 m

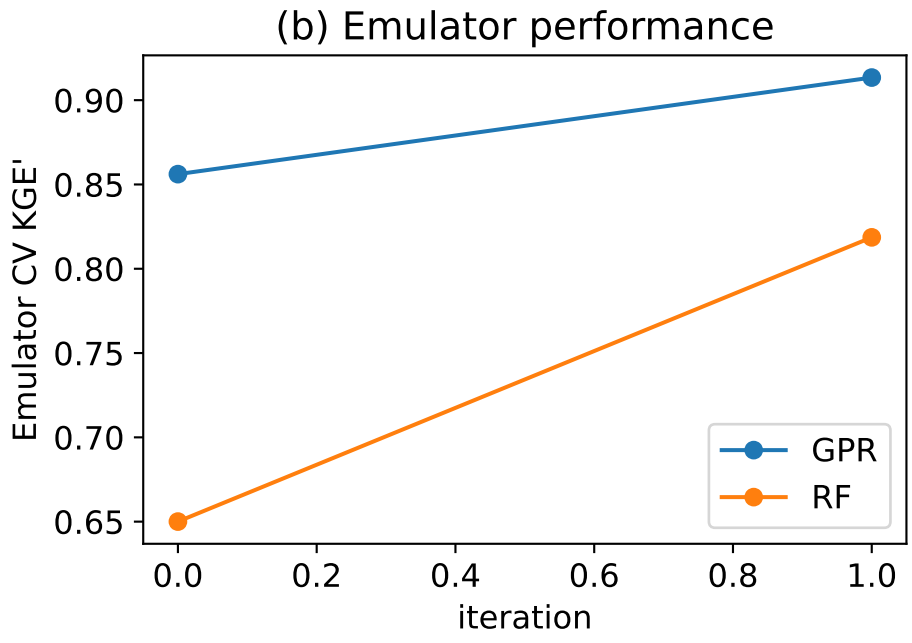


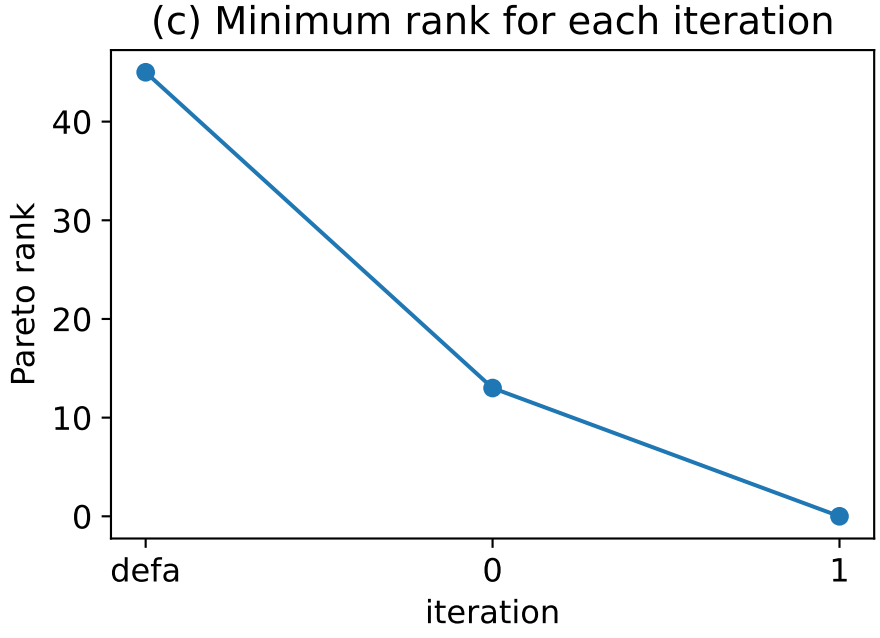




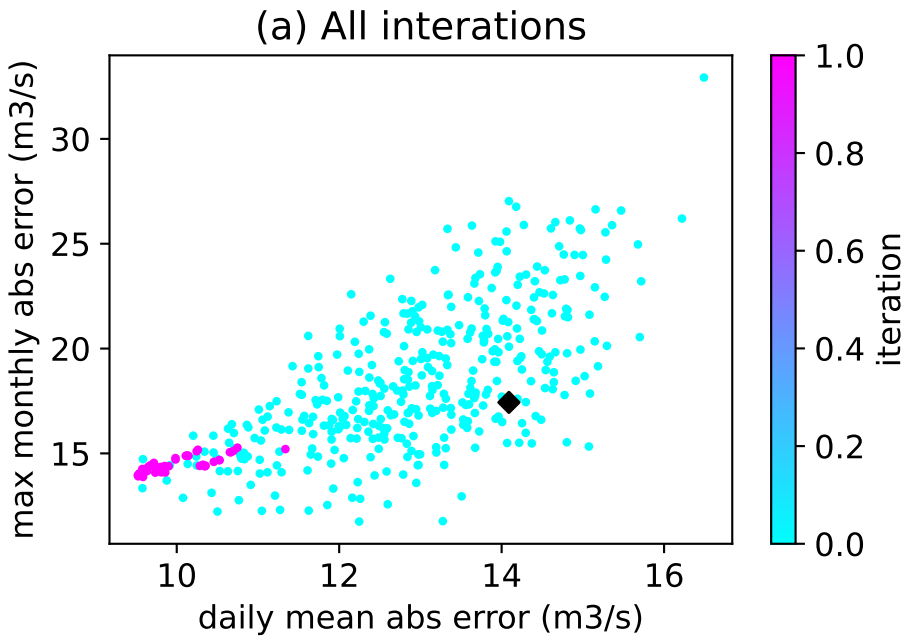
basinid: 604
hru_id: 14139800
lat_cen: 45.44413
lon_cen: -122.01432
AREA: 41.21 km2
elev_mean: 786.00 m

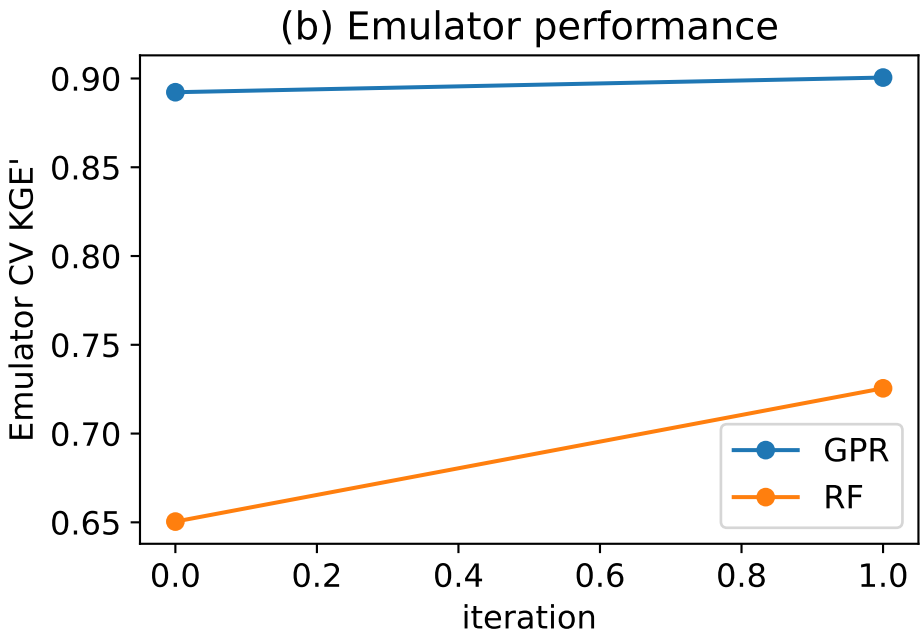


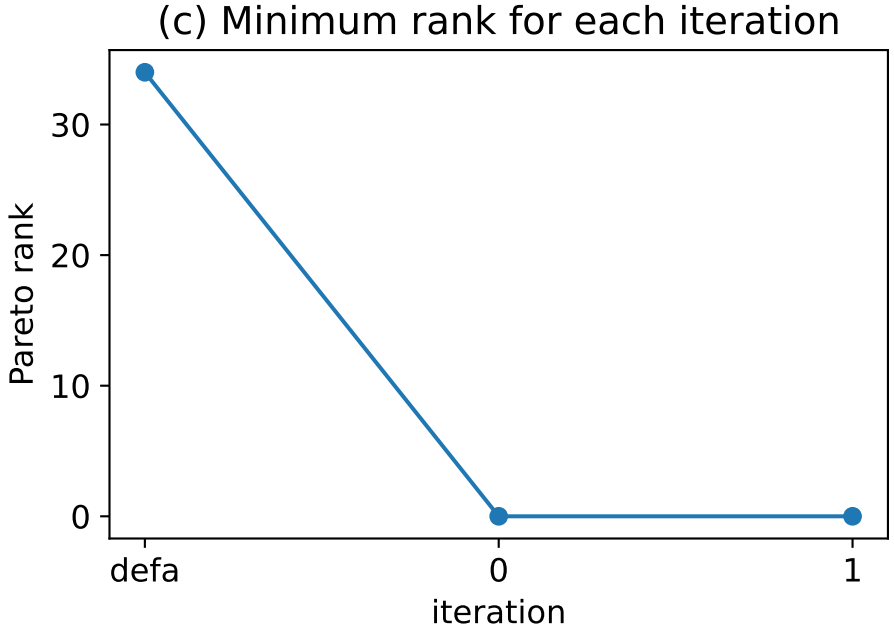




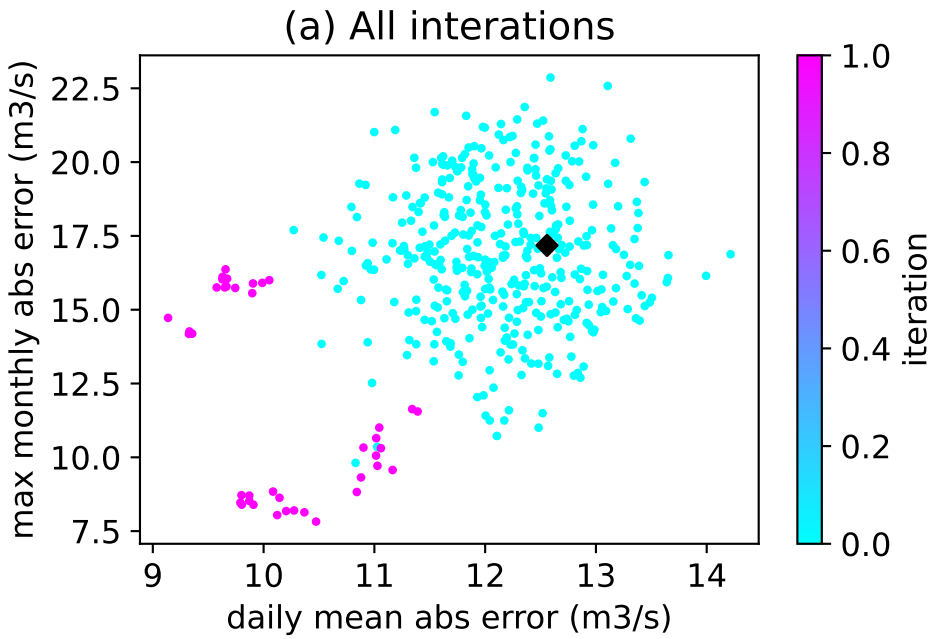
basinid: 605
hru_id: 14141500
lat_cen: 45.41544
lon_cen: -122.04301
AREA: 60.33 km2
elev_mean: 725.64 m

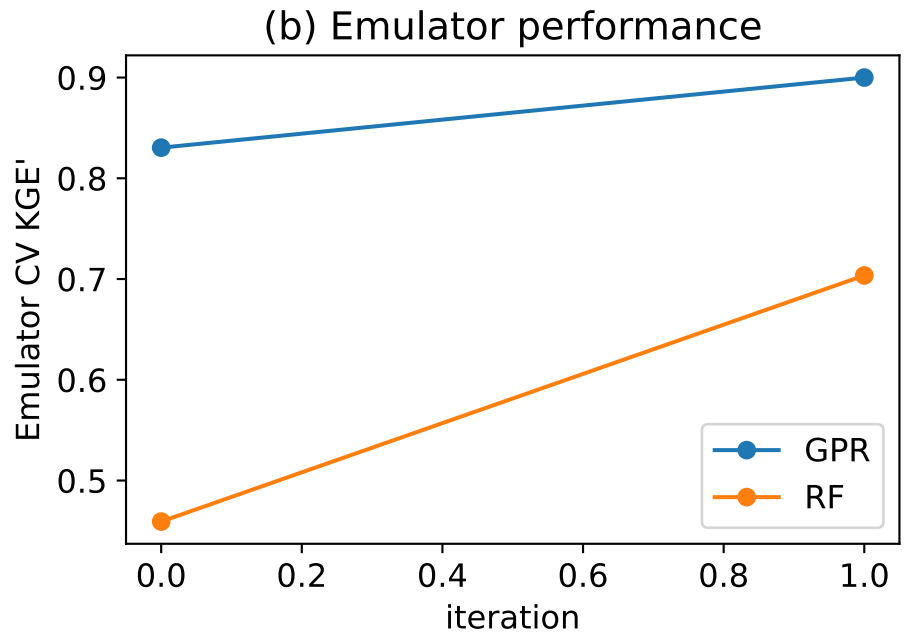


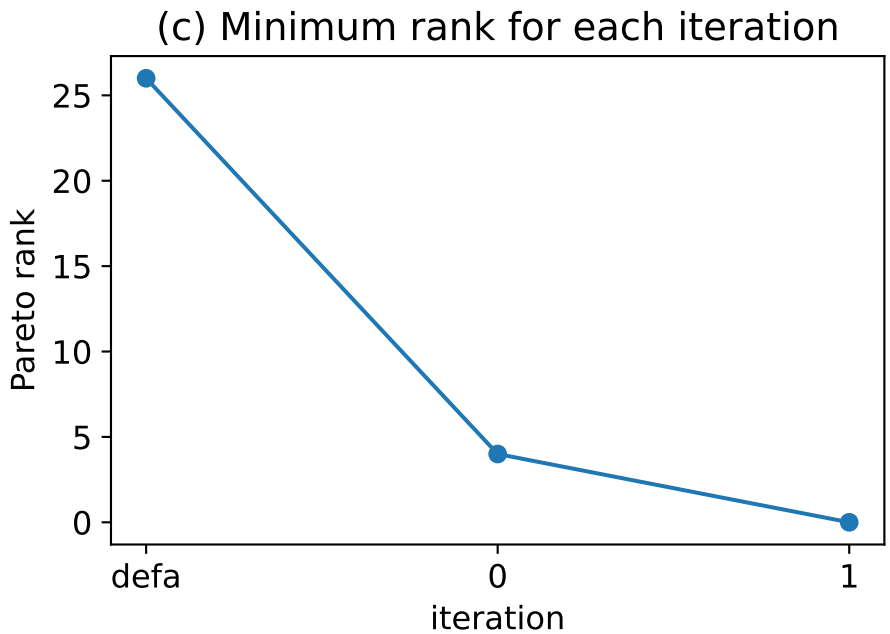




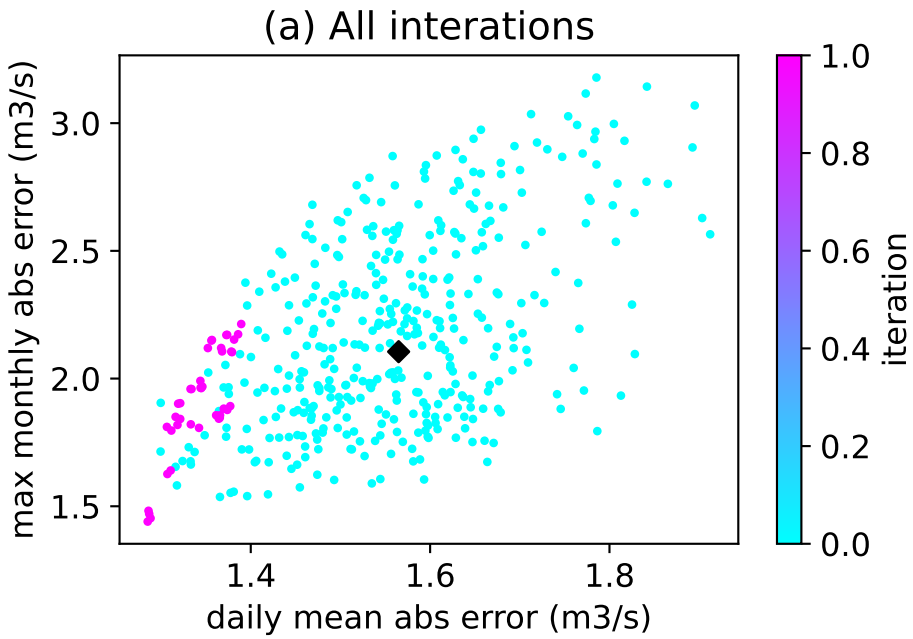
basinid: 606
hru_id: 14154500
lat_cen: 43.66204
lon_cen: -122.71525
AREA: 549.58 km2
elev_mean: 851.74 m

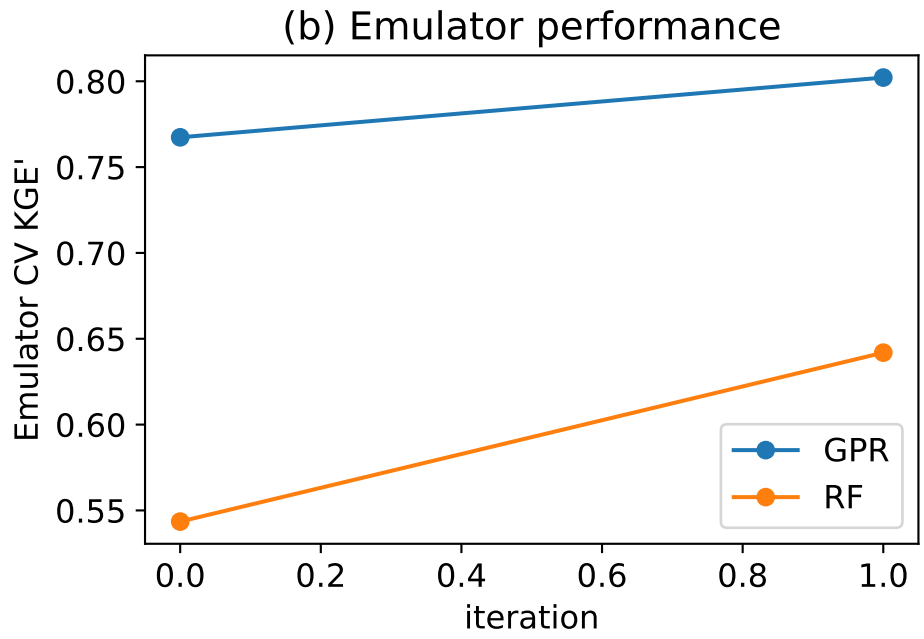


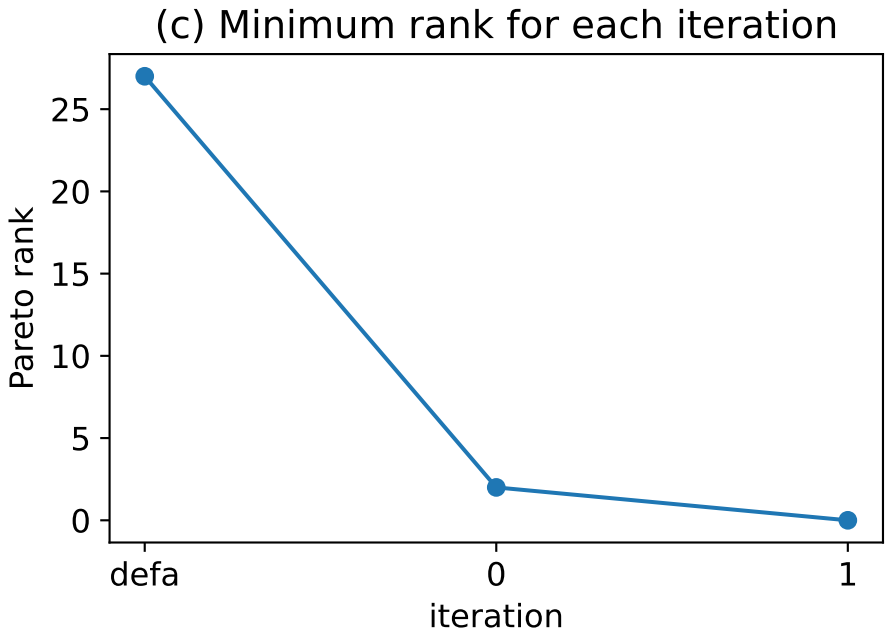




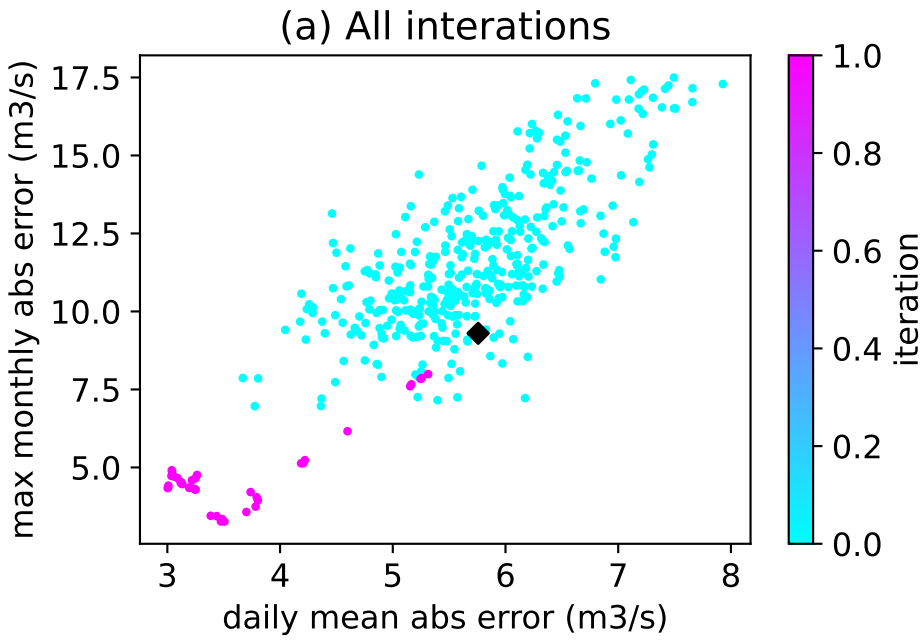
basinid: 607
hru_id: 14158500
lat_cen: 44.39672
lon_cen: -122.00186
AREA: 122.91 km2
elev_mean: 1178.91 m

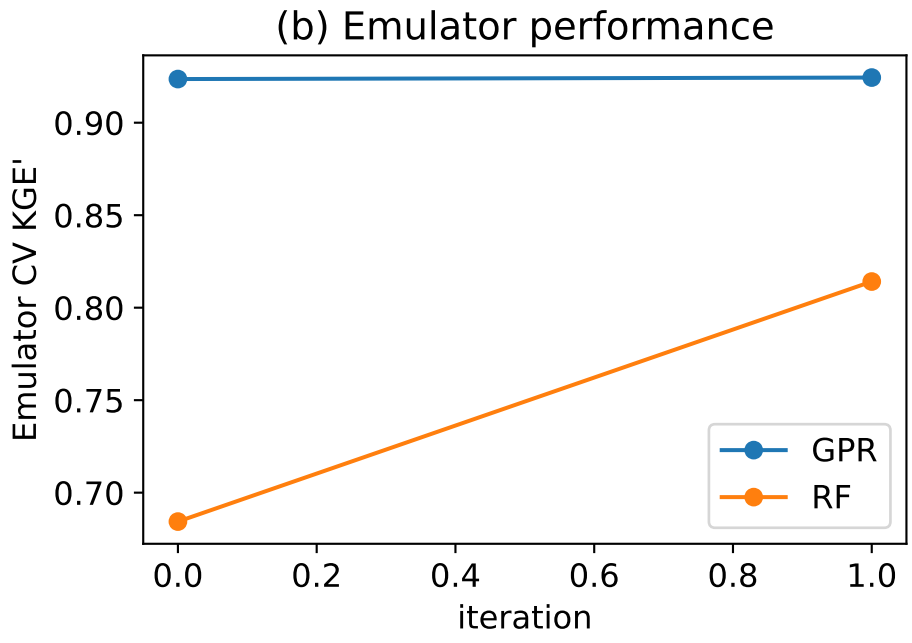


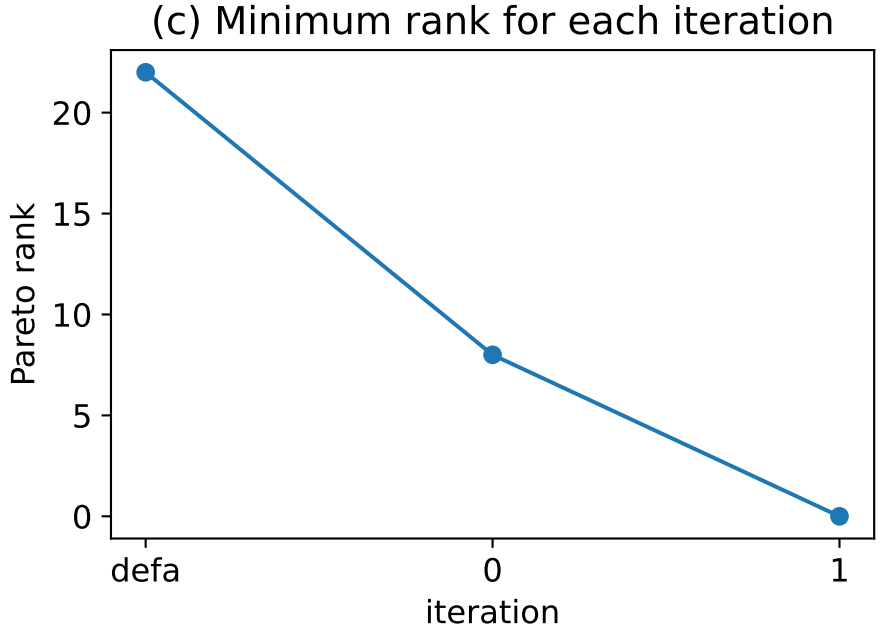




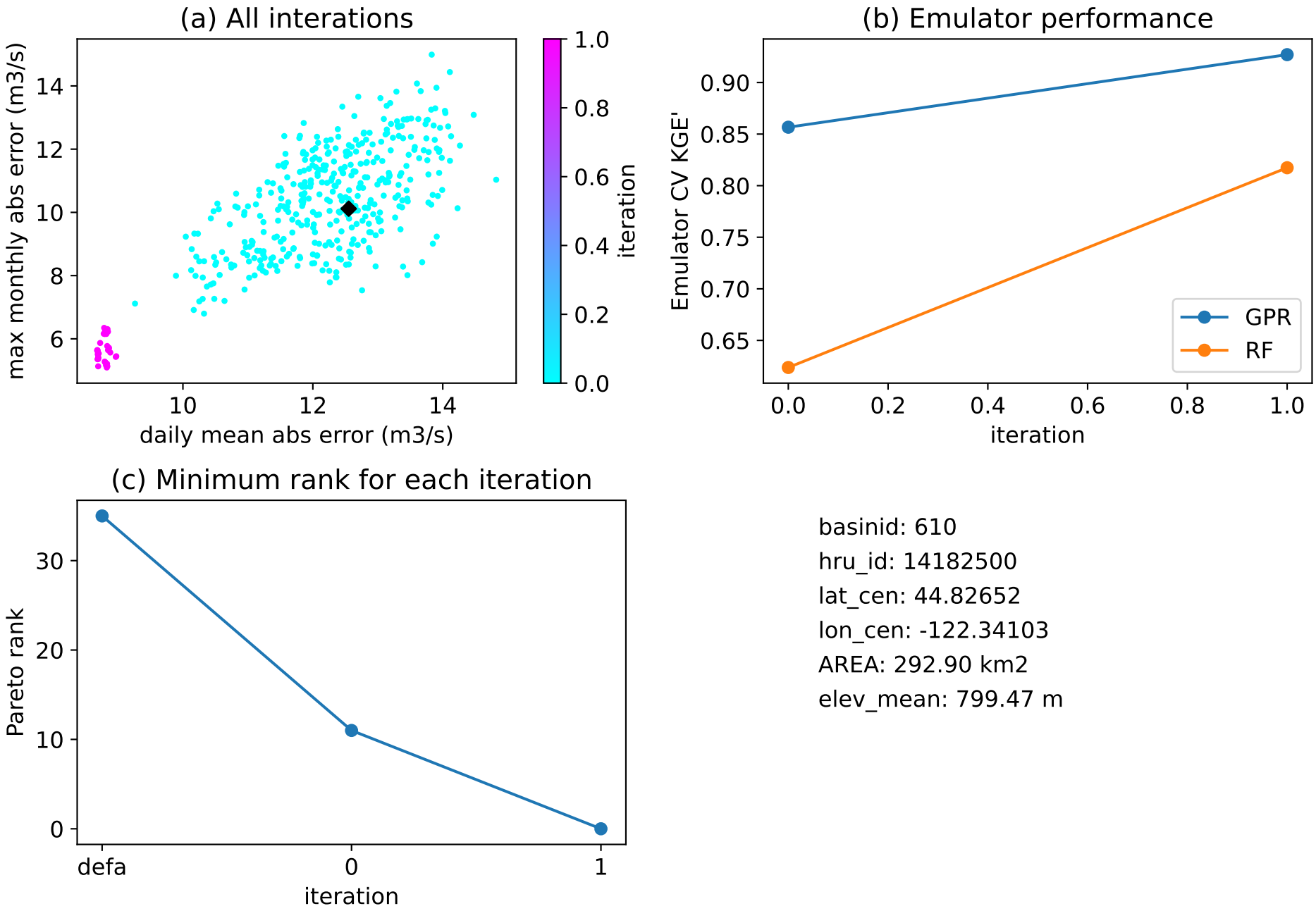
basinid: 608
hru_id: 14158790
lat_cen: 44.36002
lon_cen: -122.07449
AREA: 40.77 km2
elev_mean: 1225.86 m

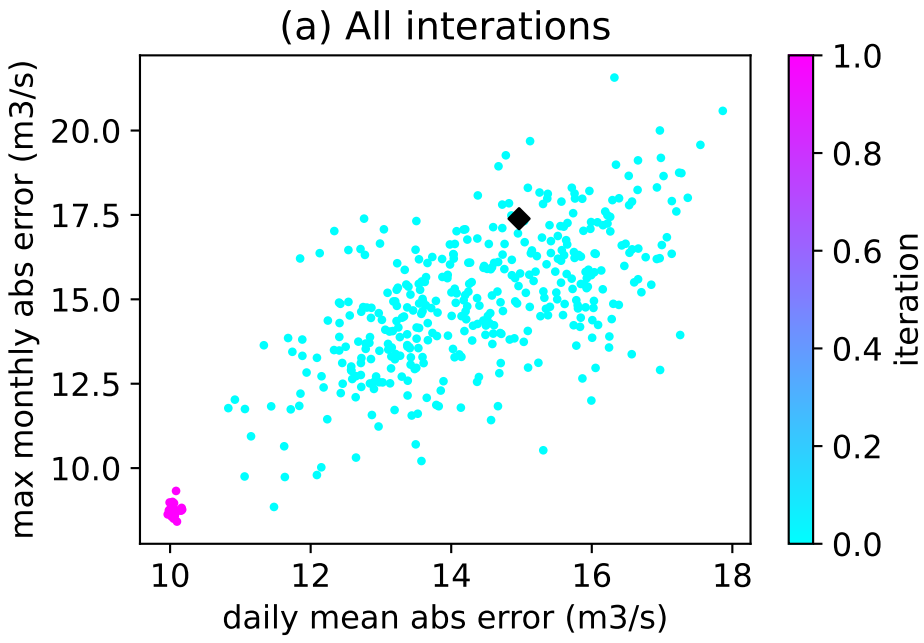


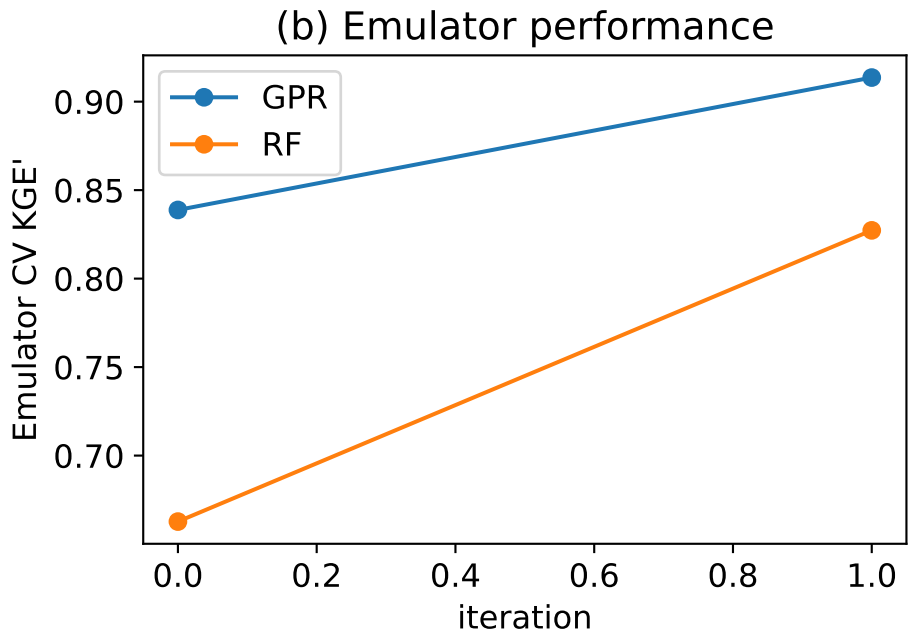


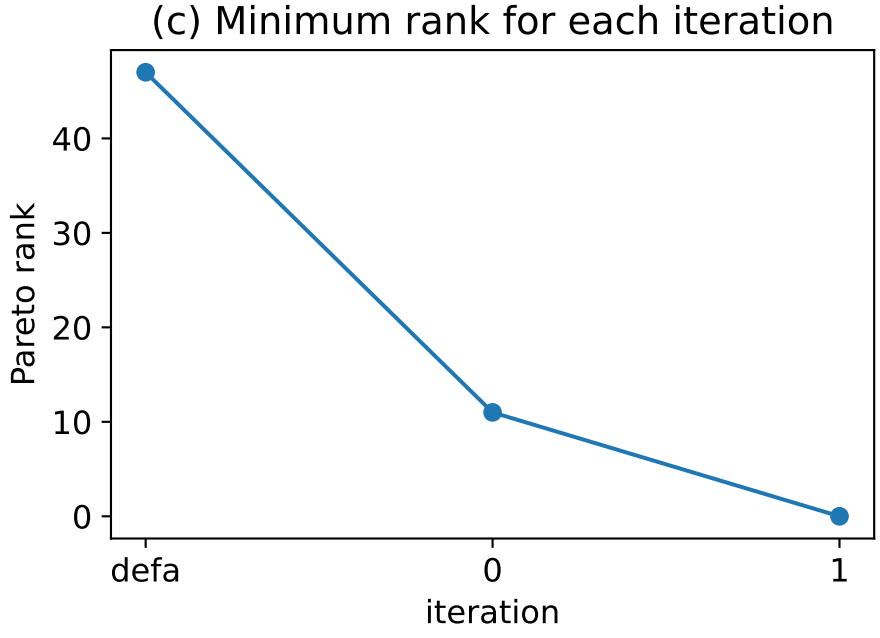


basinid: 609
hru_id: 14166500
lat_cen: 44.10252
lon_cen: -123.45066
AREA: 238.14 km2
elev_mean: 255.89 m

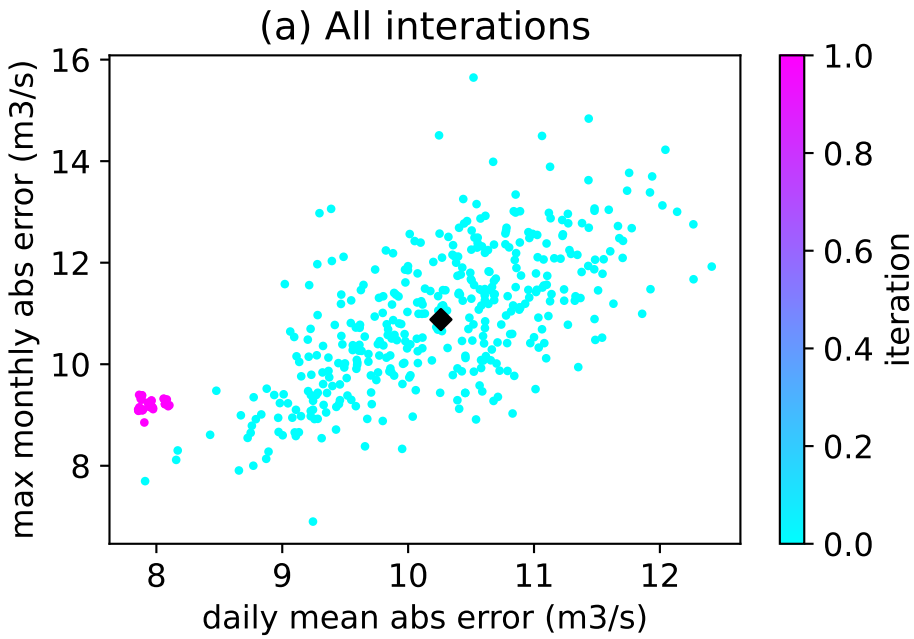

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 610
hru_id: 14182500
lat_cen: 44.82652
lon_cen: -122.34103
AREA: 292.90 km2
elev_mean: 799.47 m

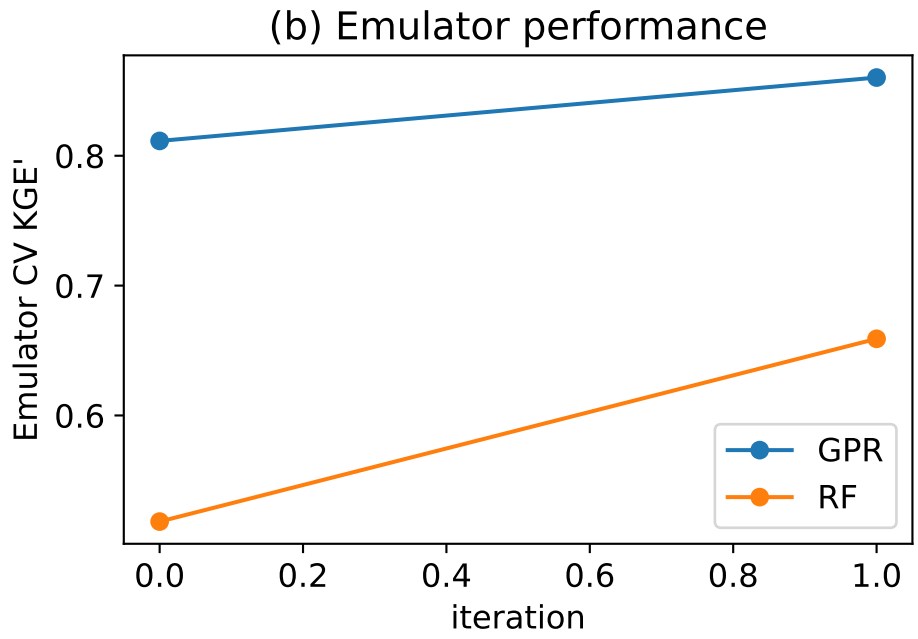


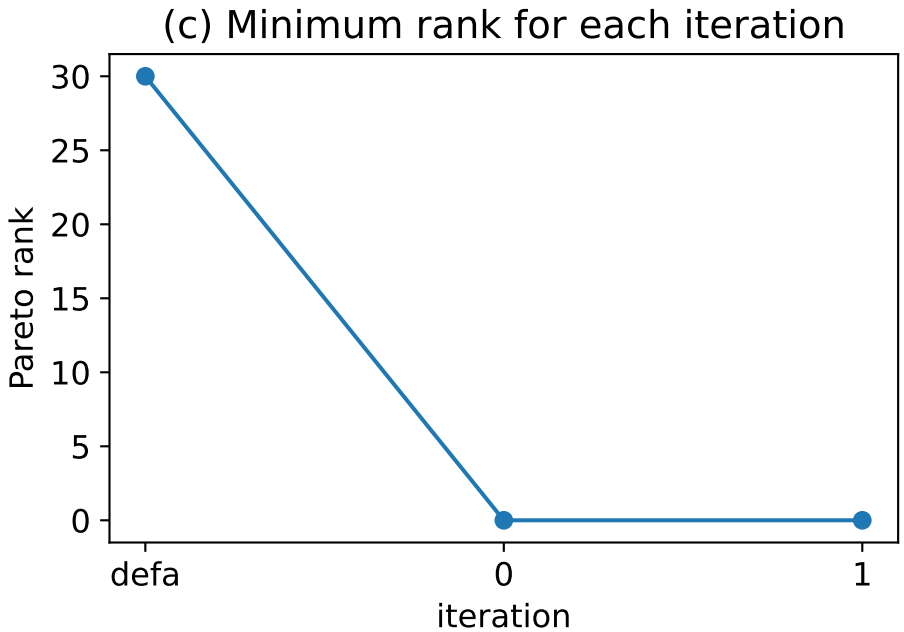




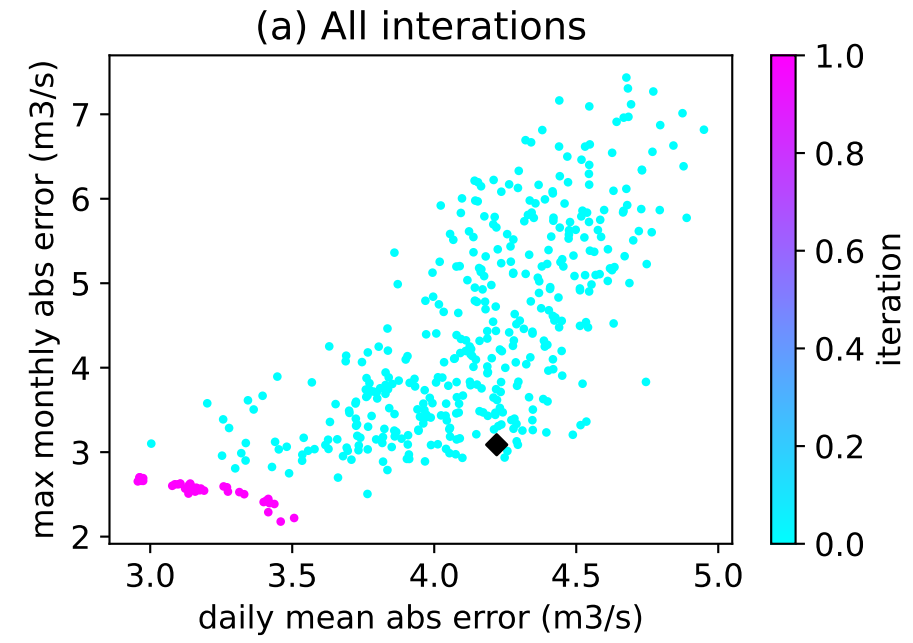
basinid: 611
hru_id: 14185000
lat_cen: 44.37924
lon_cen: -122.31802
AREA: 449.70 km2
elev_mean: 883.19 m

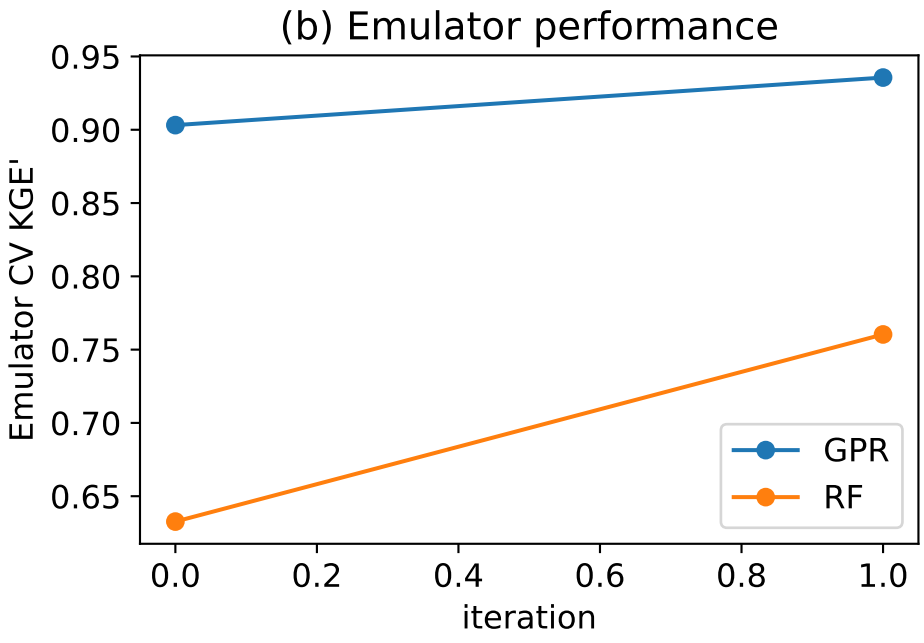


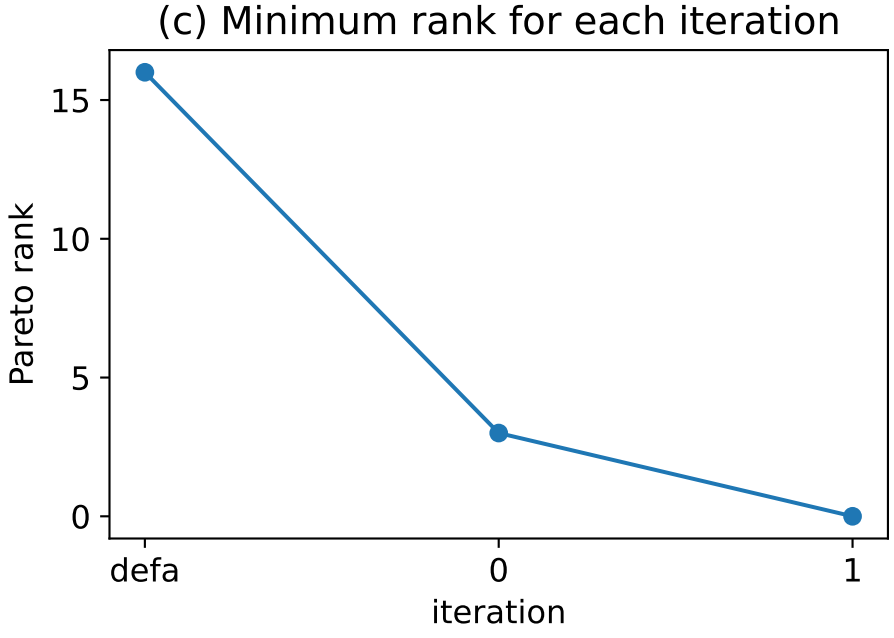




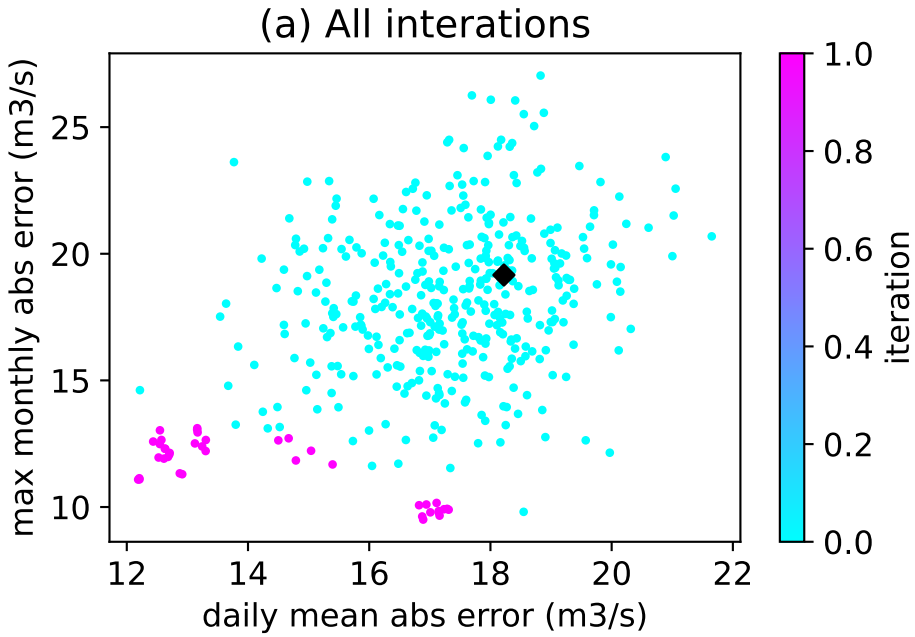
basinid: 612
hru_id: 14185900
lat_cen: 44.58919
lon_cen: -122.31096
AREA: 258.39 km2
elev_mean: 917.57 m

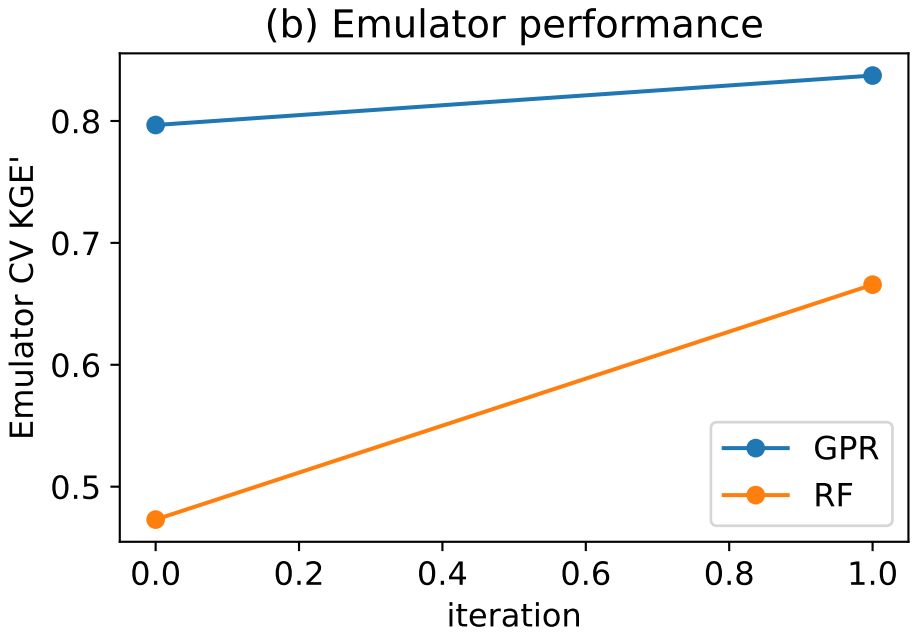


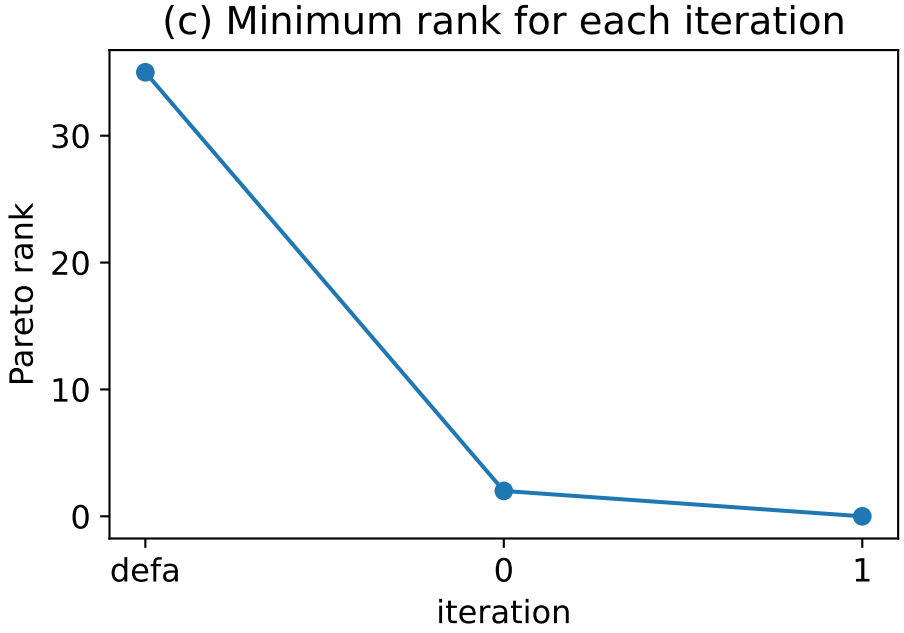




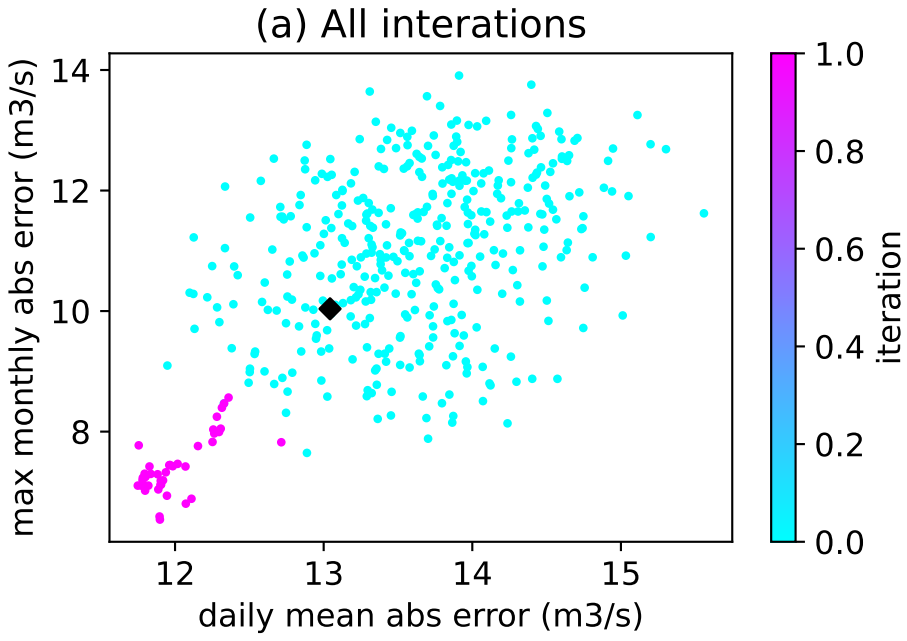
basinid: 613
hru_id: 14187000
lat_cen: 44.32938
lon_cen: -122.53038
AREA: 137.76 km2
elev_mean: 718.22 m

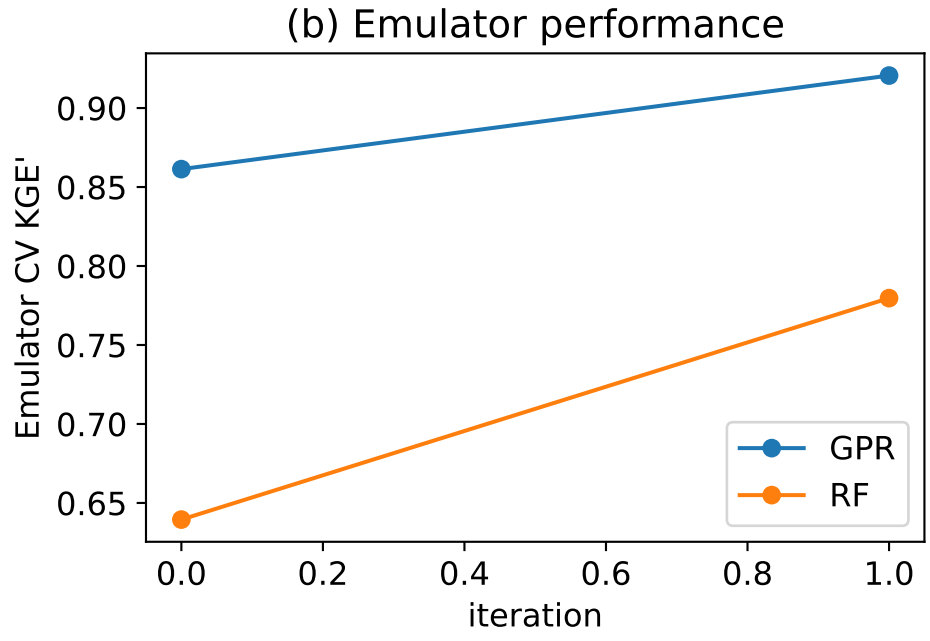


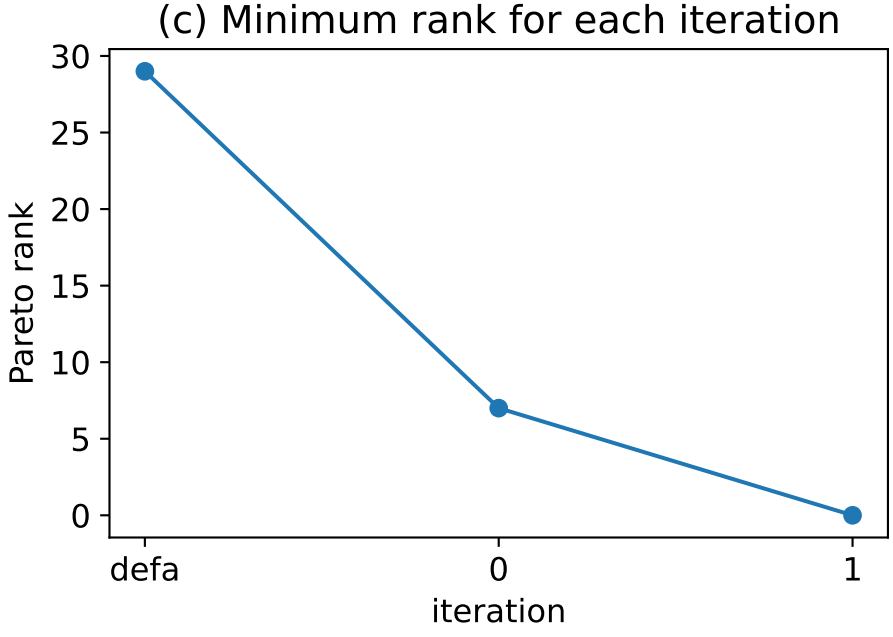




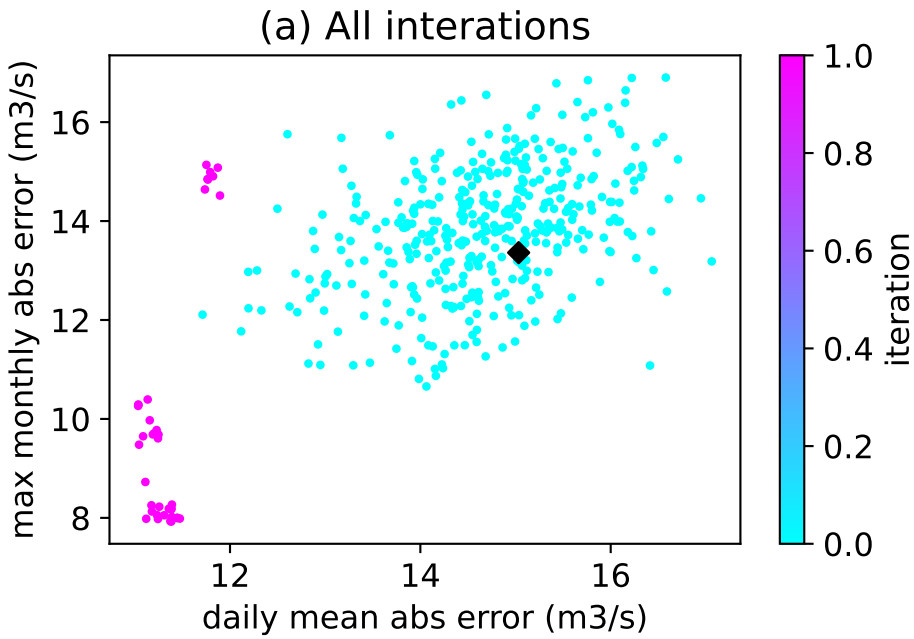
basinid: 614
hru_id: 14216500
lat_cen: 46.21386
lon_cen: -122.01595
AREA: 349.92 km2
elev_mean: 929.87 m

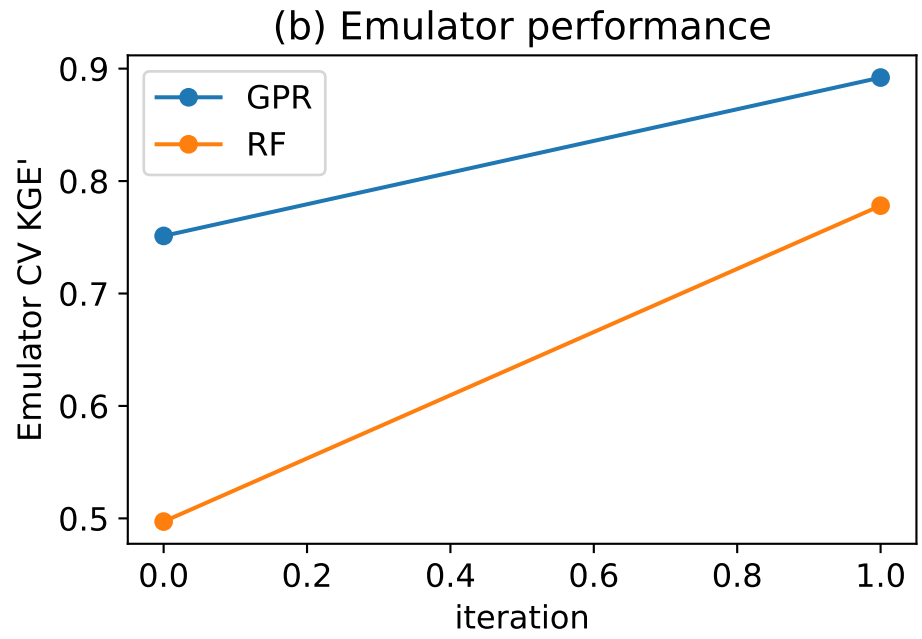


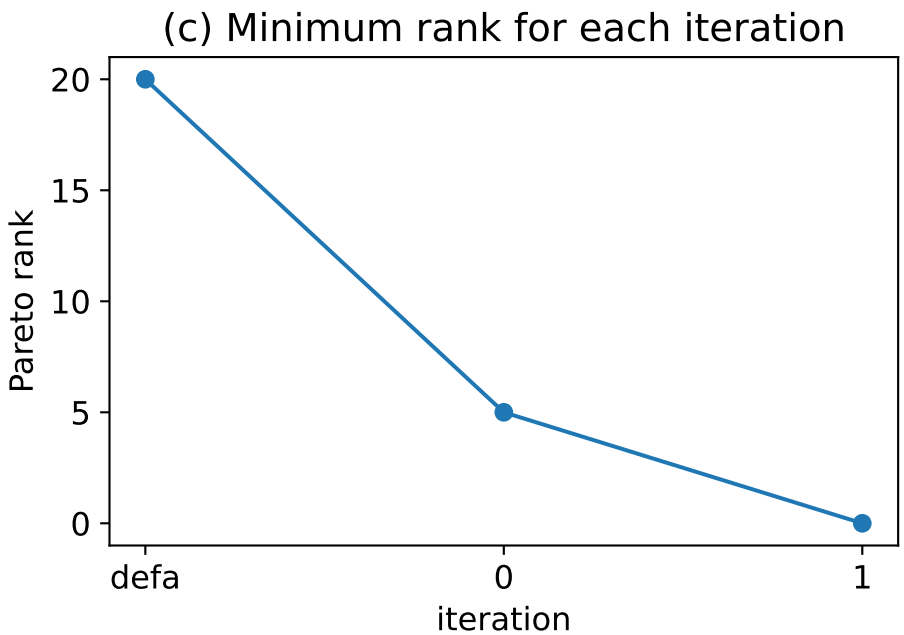




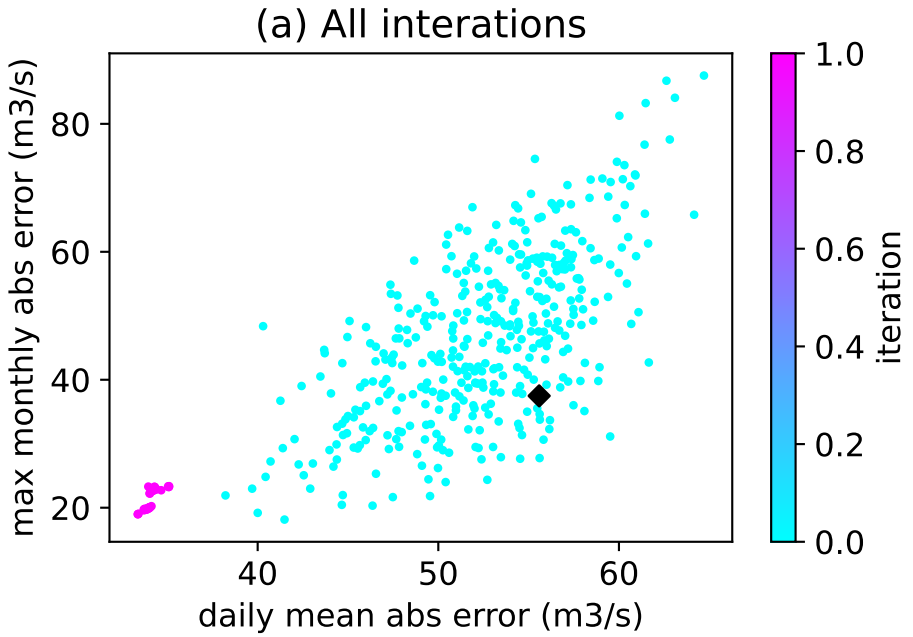
basinid: 615
hru_id: 14222500
lat_cen: 45.80792
lon_cen: -122.28502
AREA: 329.06 km2
elev_mean: 559.15 m

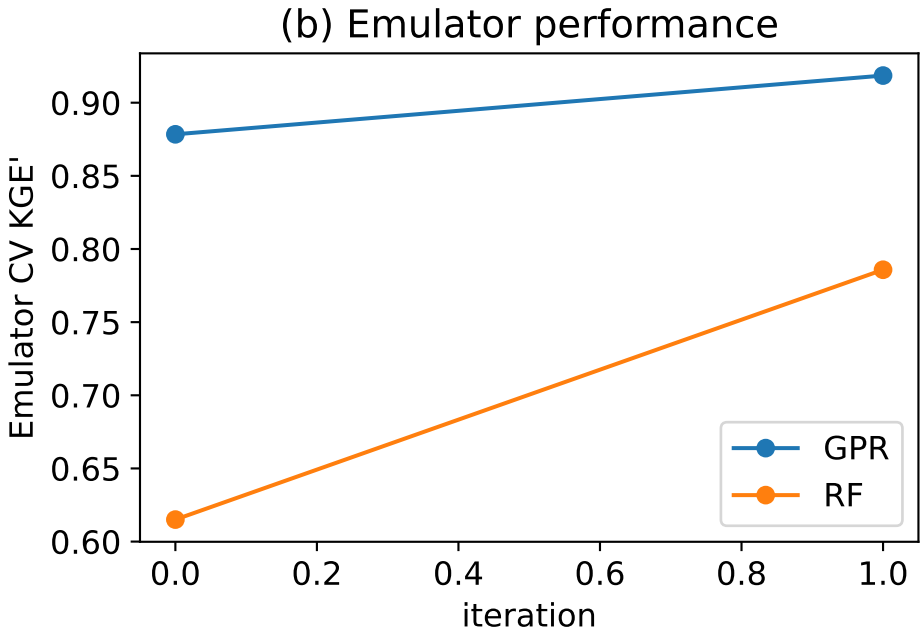


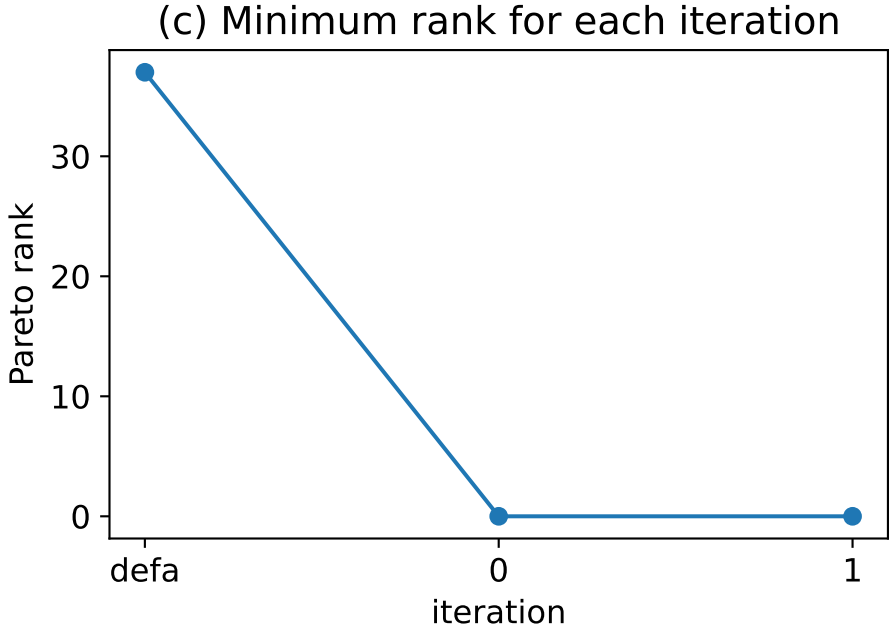




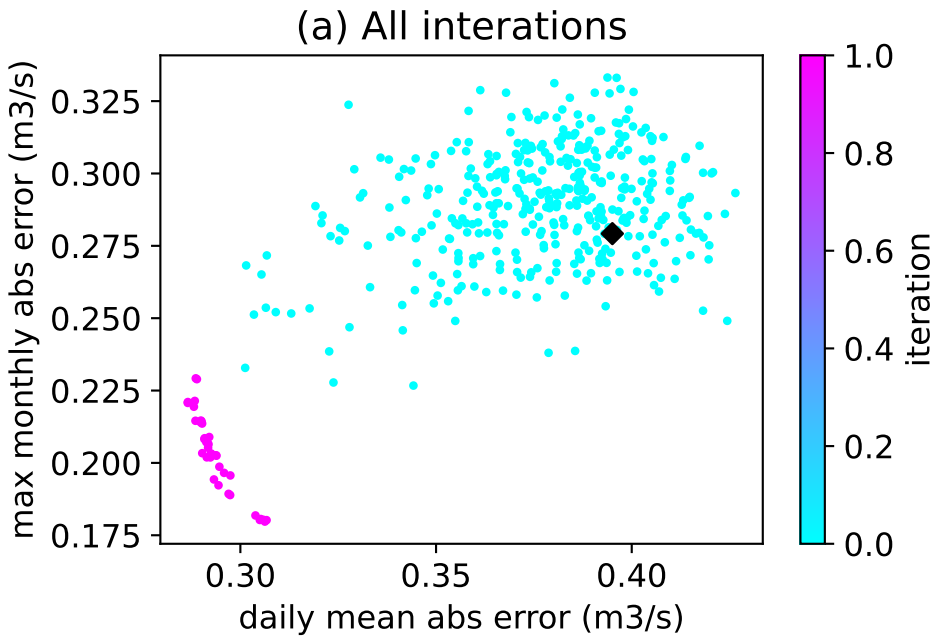
basinid: 616
hru_id: 14236200
lat_cen: 46.605
lon_cen: -122.28922
AREA: 364.50 km2
elev_mean: 660.38 m

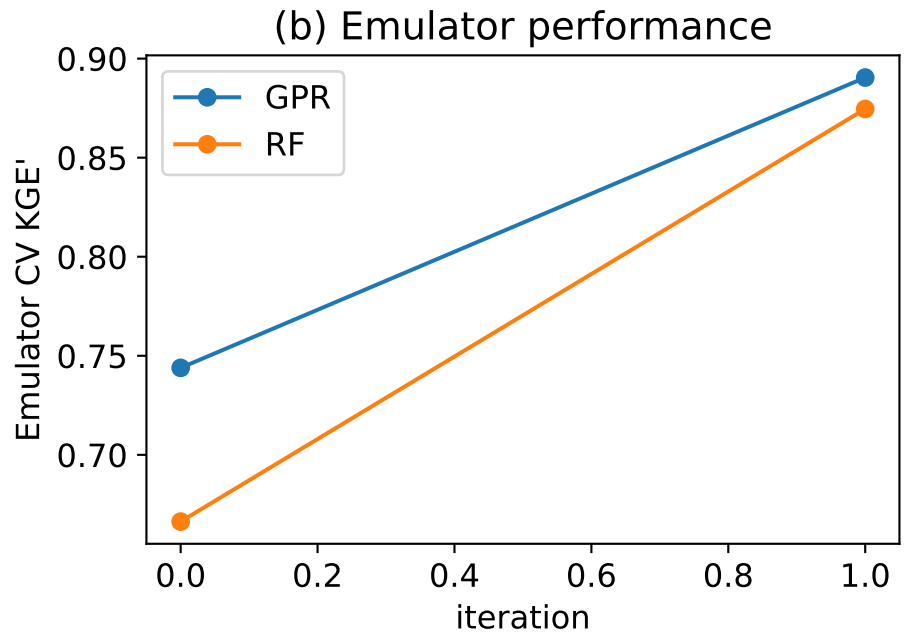


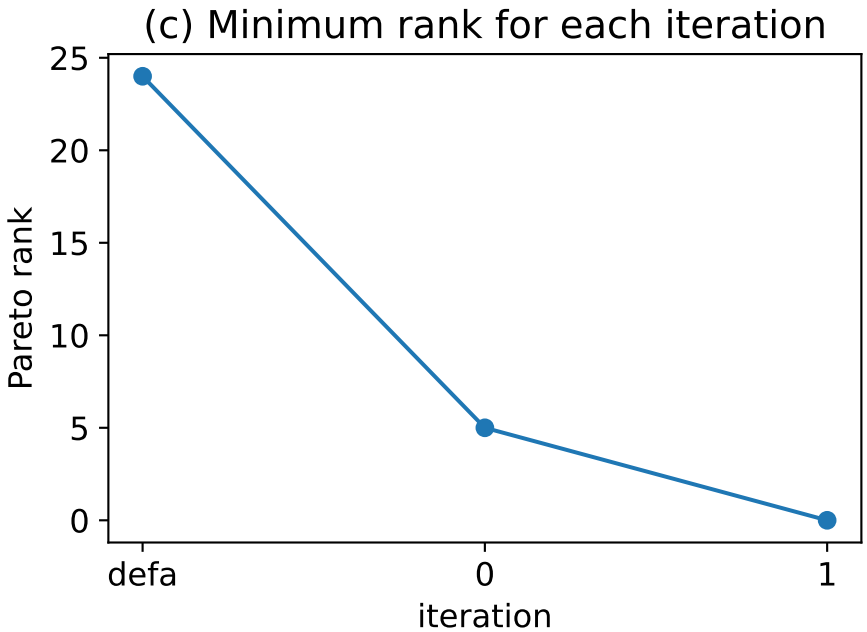




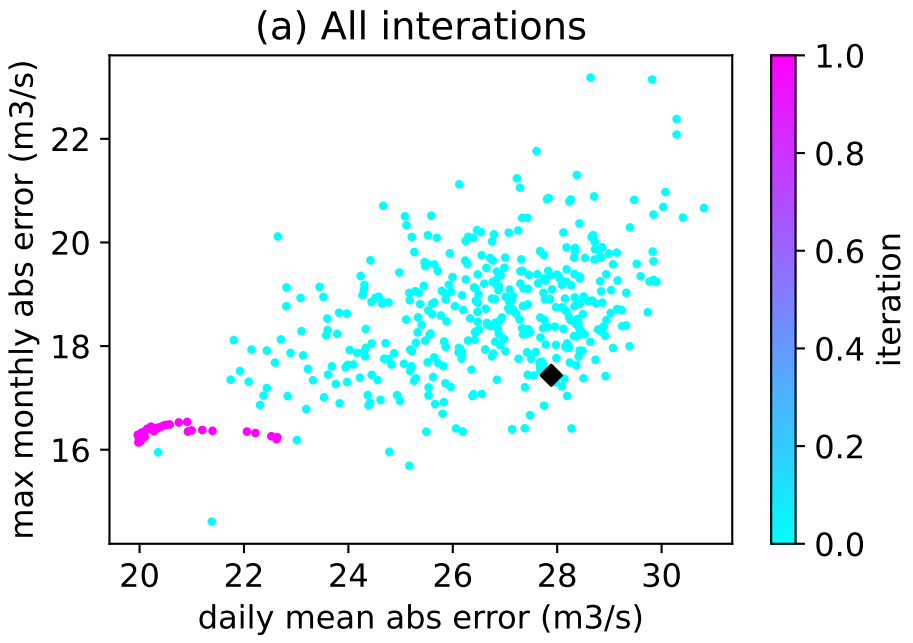
basinid: 617
hru_id: 14301000
lat_cen: 45.86674
lon_cen: -123.39198
AREA: 1745.23 km2
elev_mean: 357.69 m

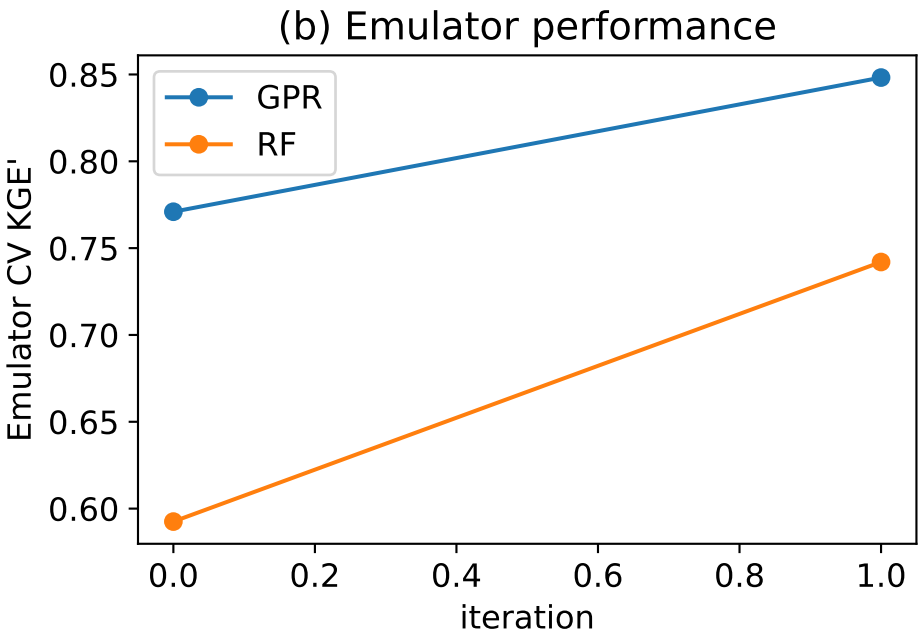


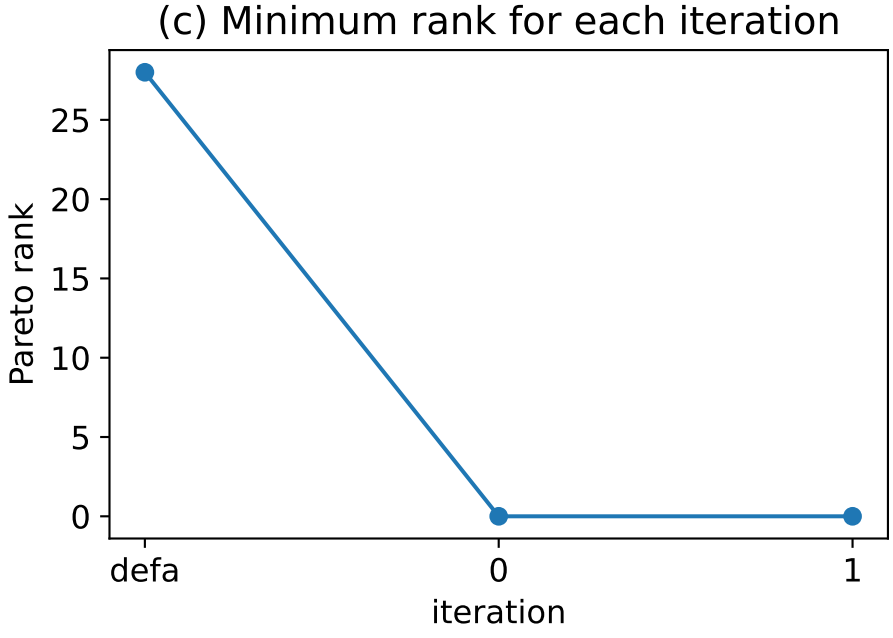




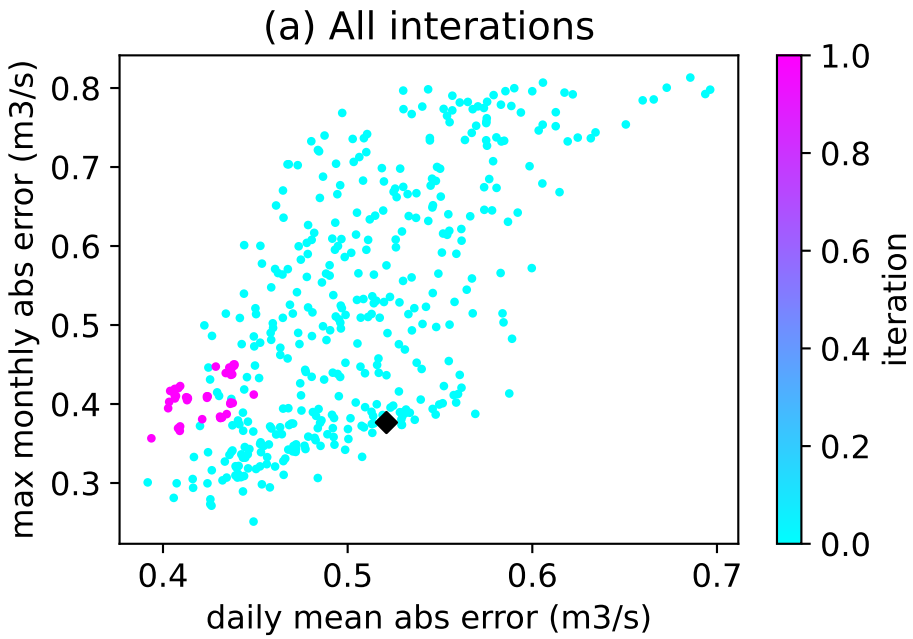
basinid: 618
hru_id: 14303200
lat_cen: 45.3237
lon_cen: -123.53069
AREA: 8.07 km2
elev_mean: 646.40 m

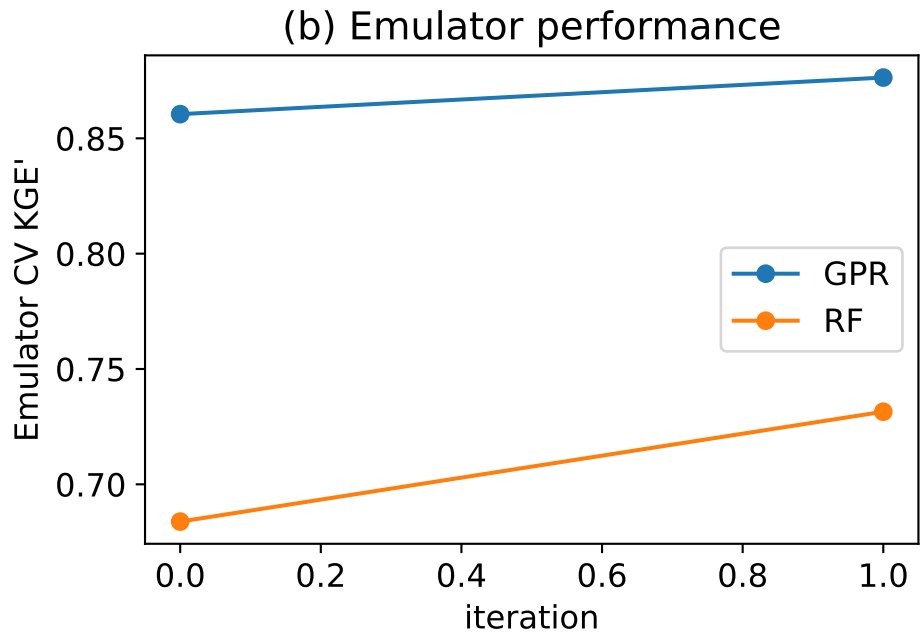


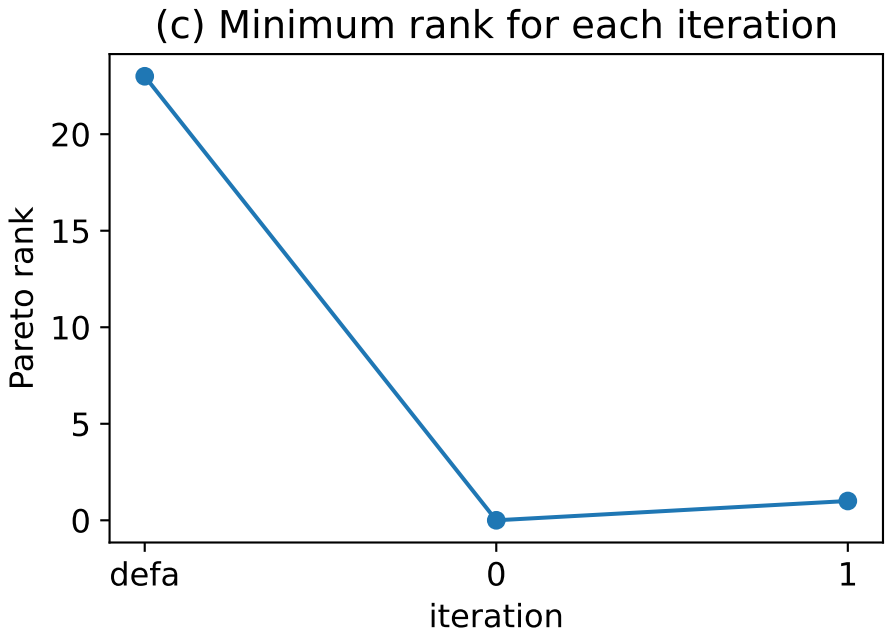




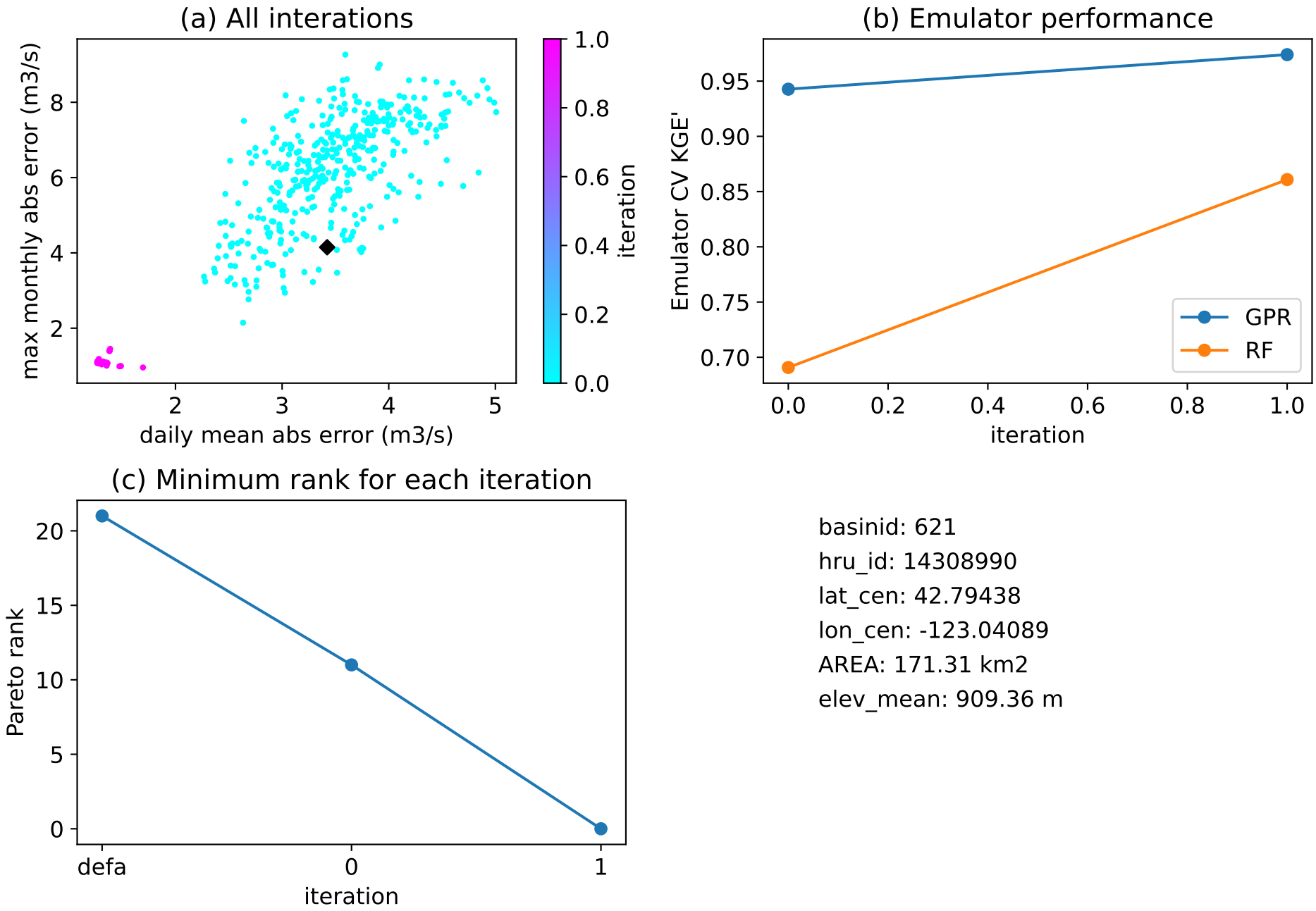
basinid: 619
hru_id: 14305500
lat_cen: 44.81731
lon_cen: -123.71999
AREA: 526.42 km2
elev_mean: 397.57 m

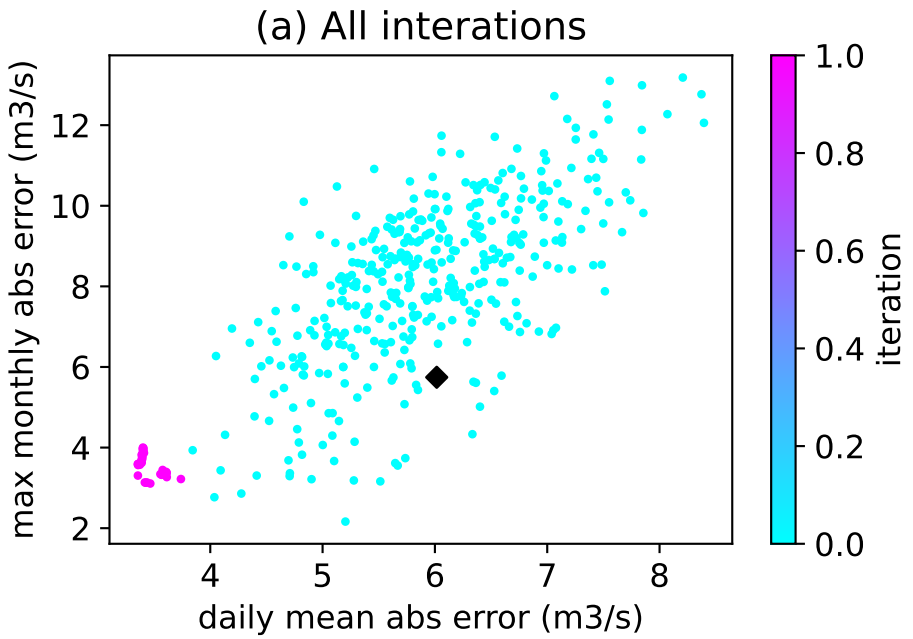


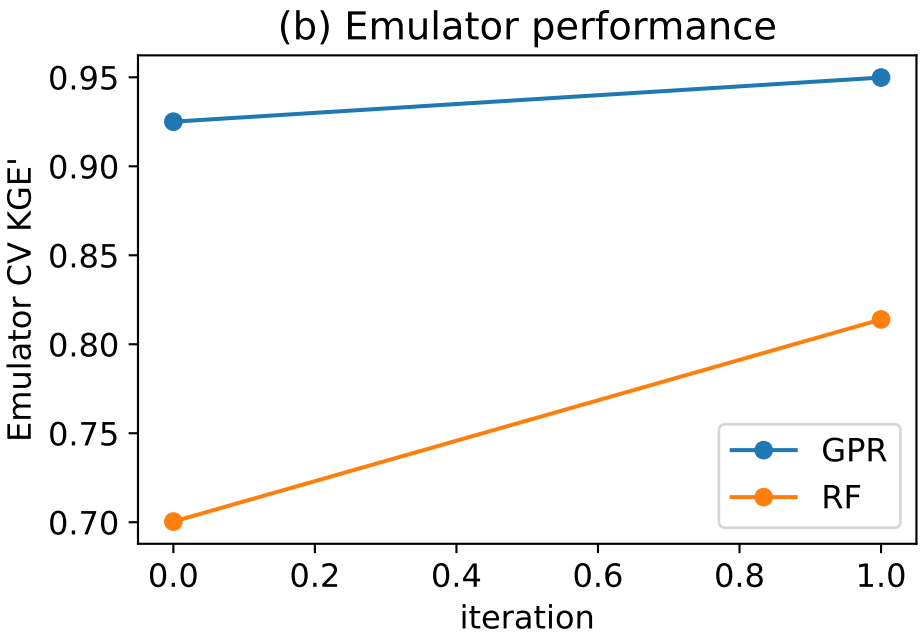


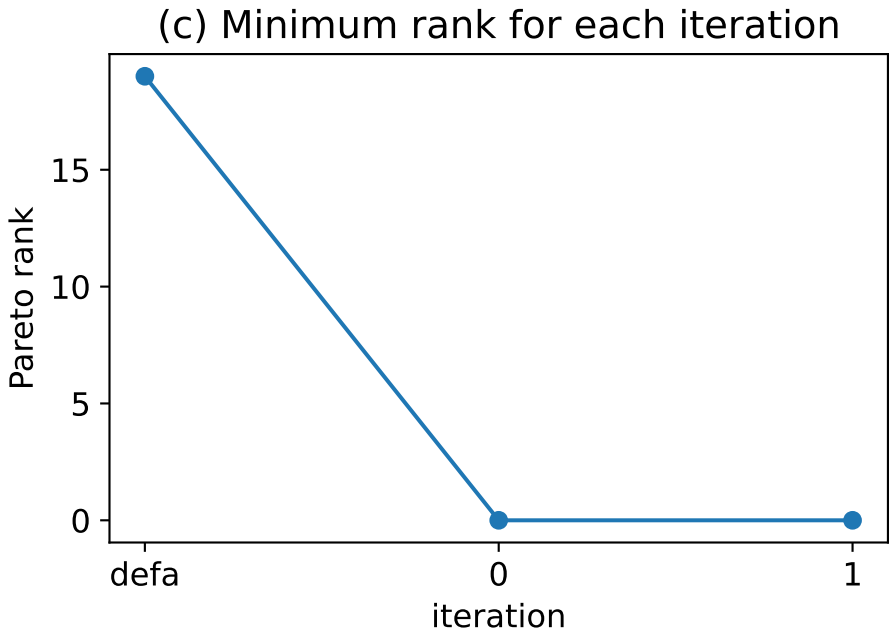


basinid: 620
hru_id: 14306340
lat_cen: 44.26003
lon_cen: -123.60289
AREA: 14.76 km2
elev_mean: 507.50 m

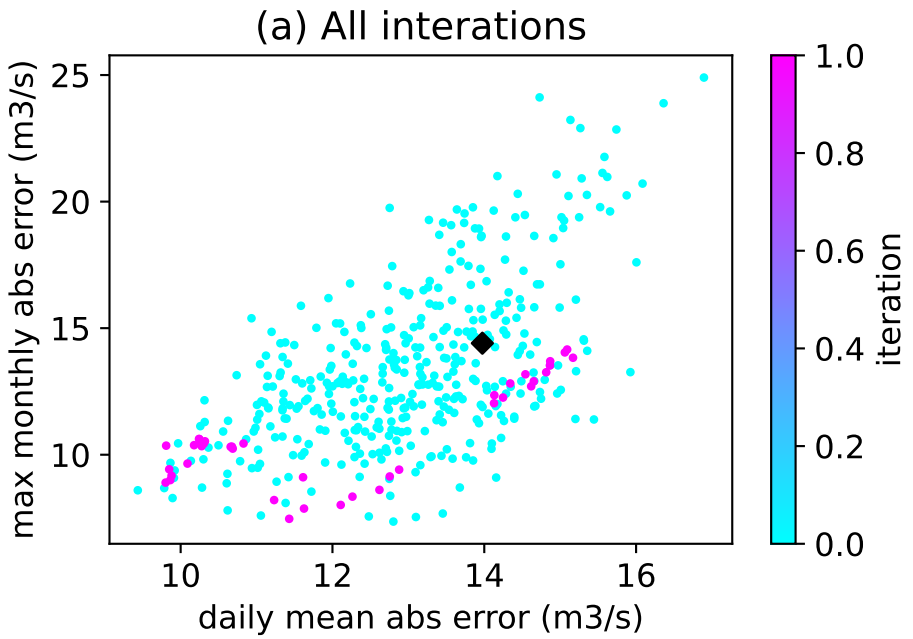

(a) All interations
max monthly abs error (m3/s)
daily mean abs error (m3/s)
iteration
(b) Emulator performance
Emulator CV KGE'
iteration
GPR
RF
(c) Minimum rank for each iteration
Pareto rank
iteration
defa
basinid: 621
hru_id: 14308990
lat_cen: 42.79438
lon_cen: -123.04089
AREA: 171.31 km2
elev_mean: 909.36 m

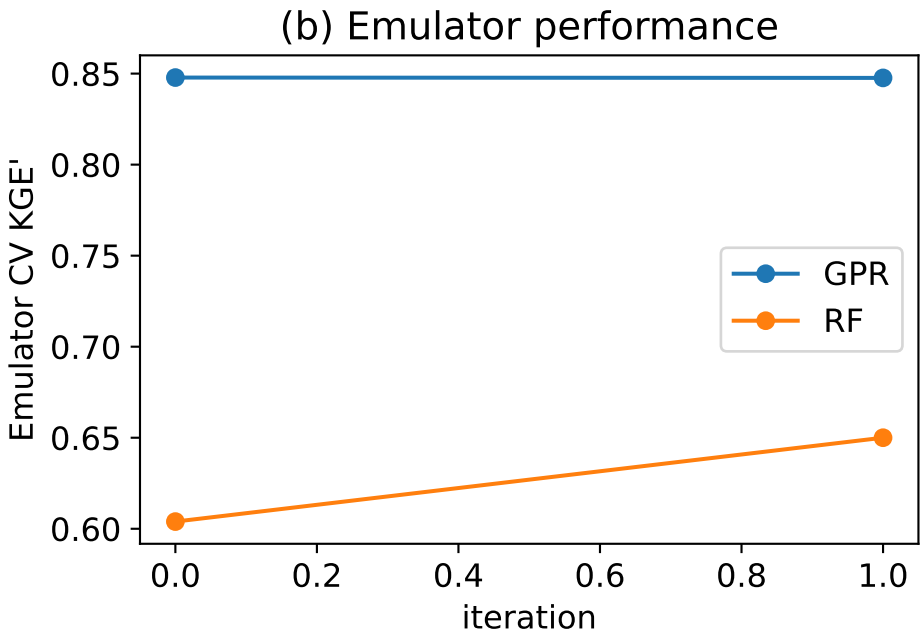


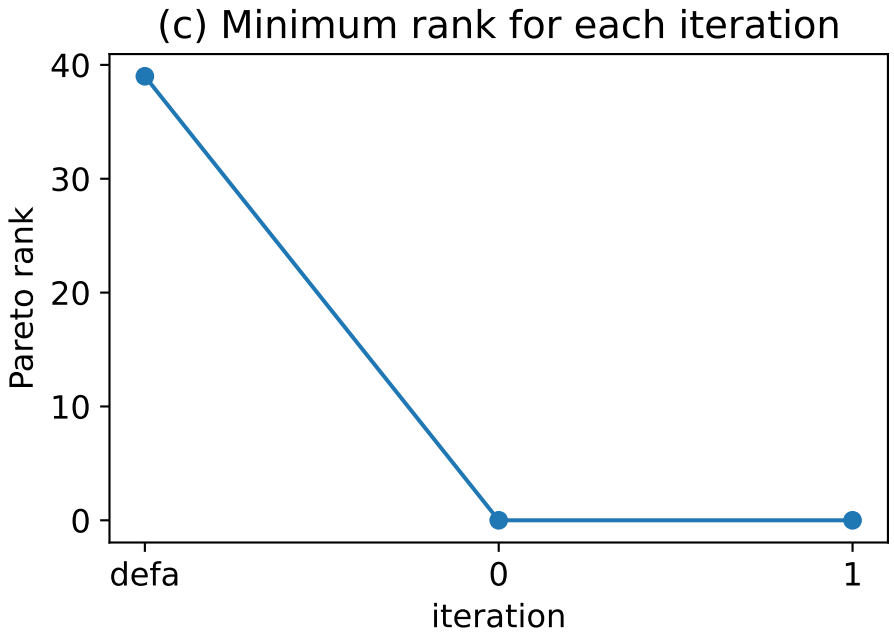




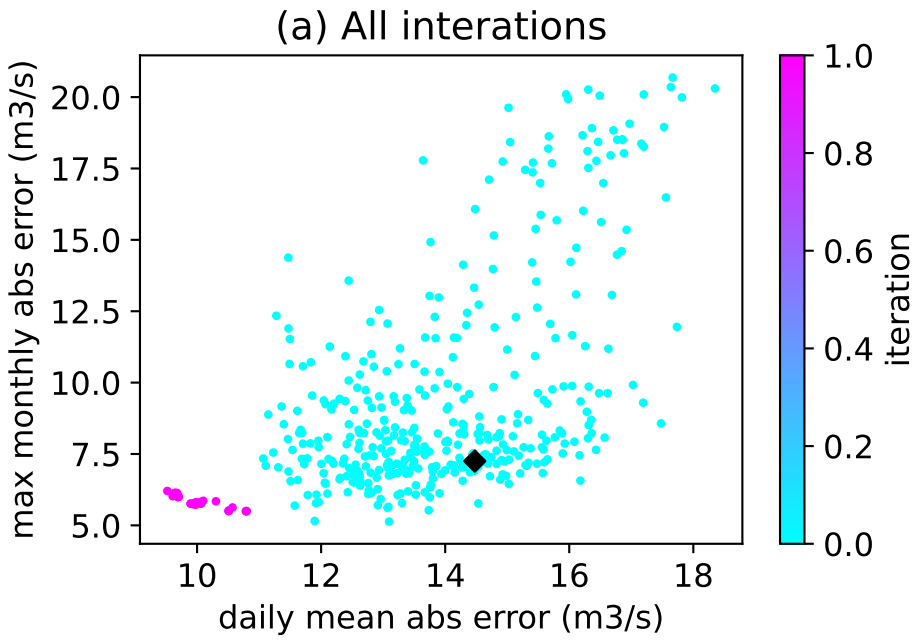
basinid: 622
hru_id: 14309500
lat_cen: 42.83017
lon_cen: -123.74216
AREA: 226.31 km2
elev_mean: 737.62 m

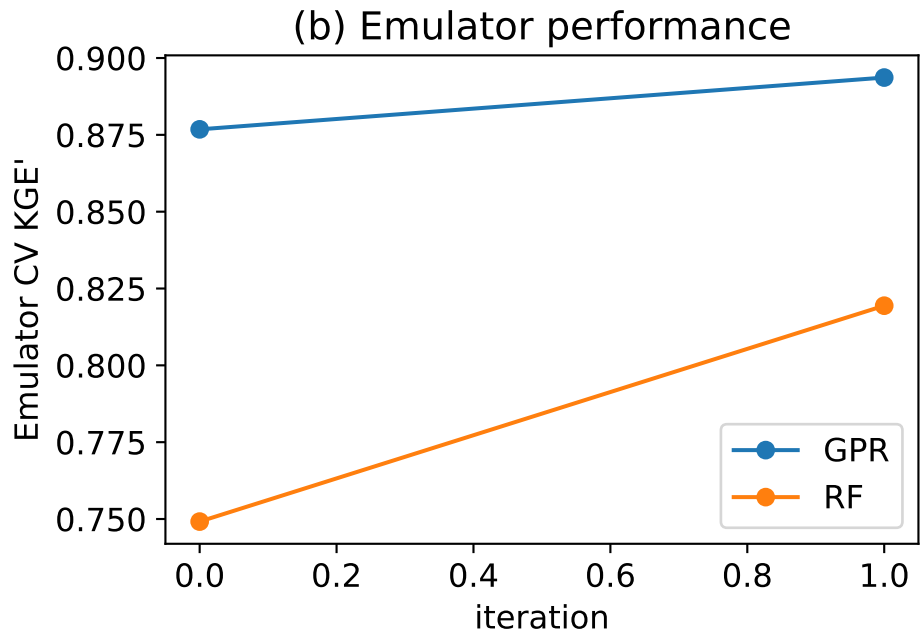


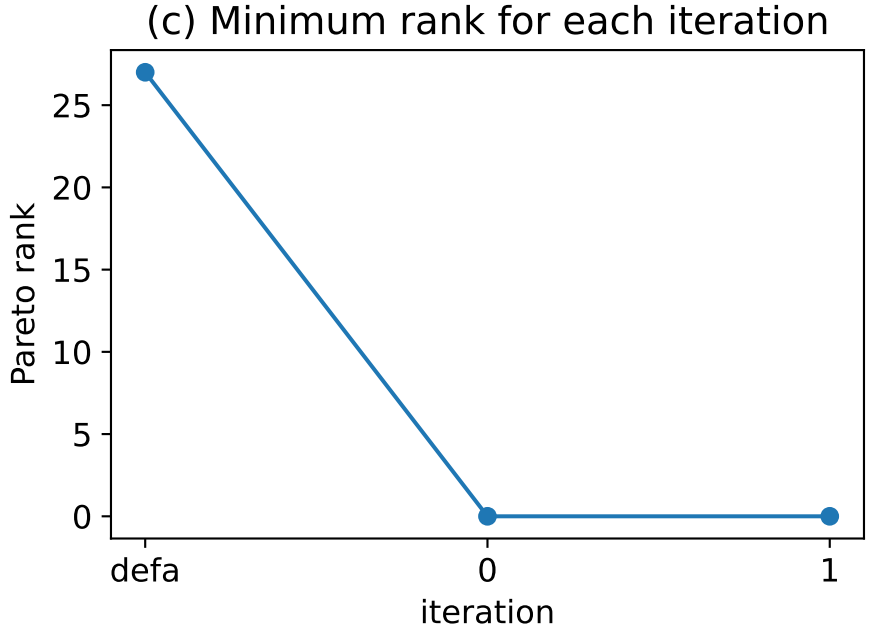




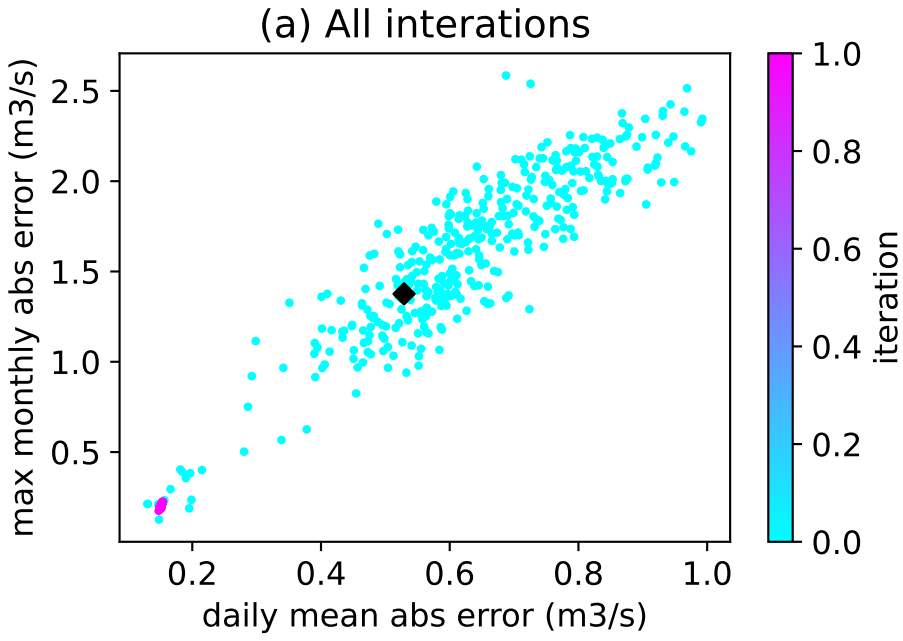
basinid: 623
hru_id: 14316700
lat_cen: 43.4529
lon_cen: -122.64677
AREA: 588.03 km2
elev_mean: 947.55 m

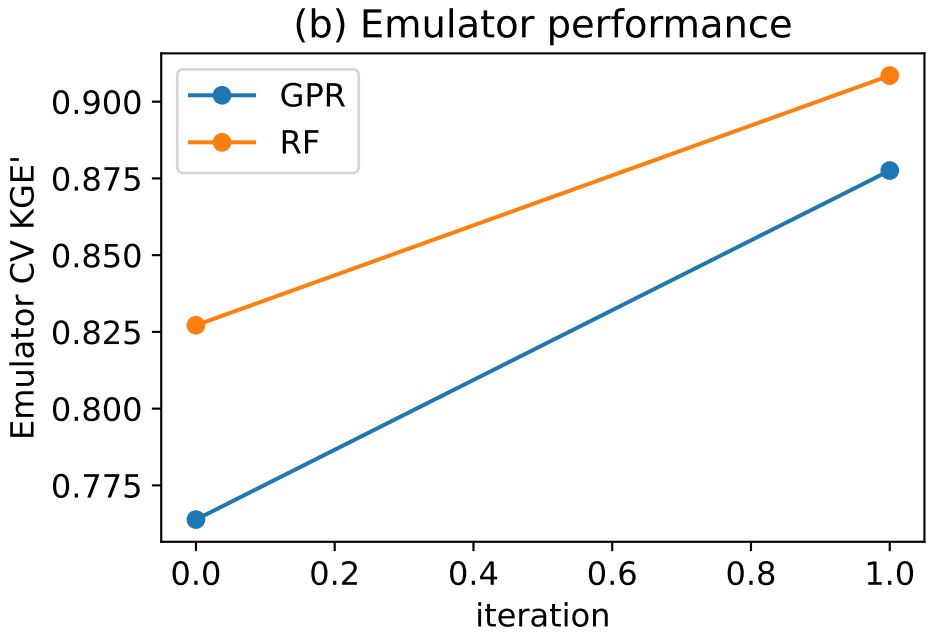


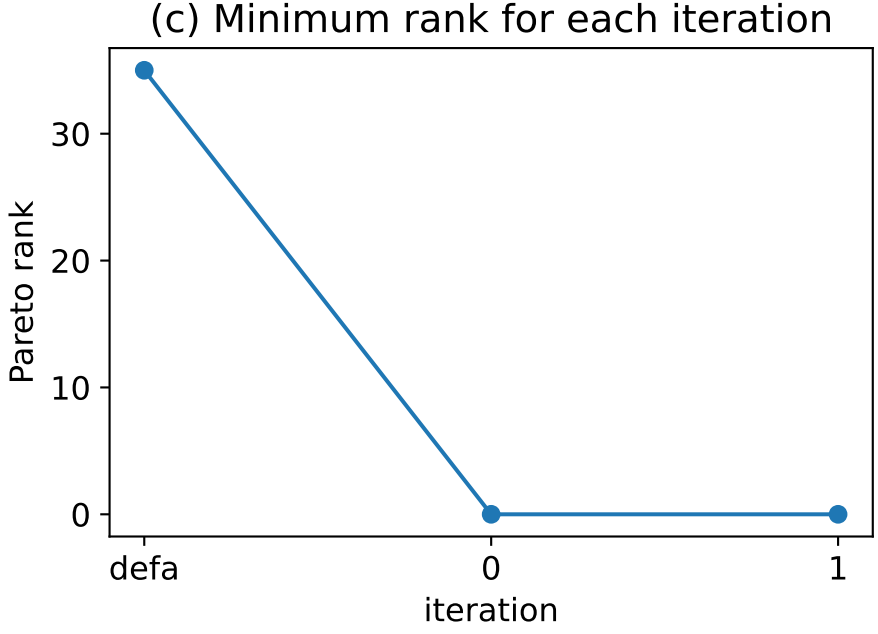




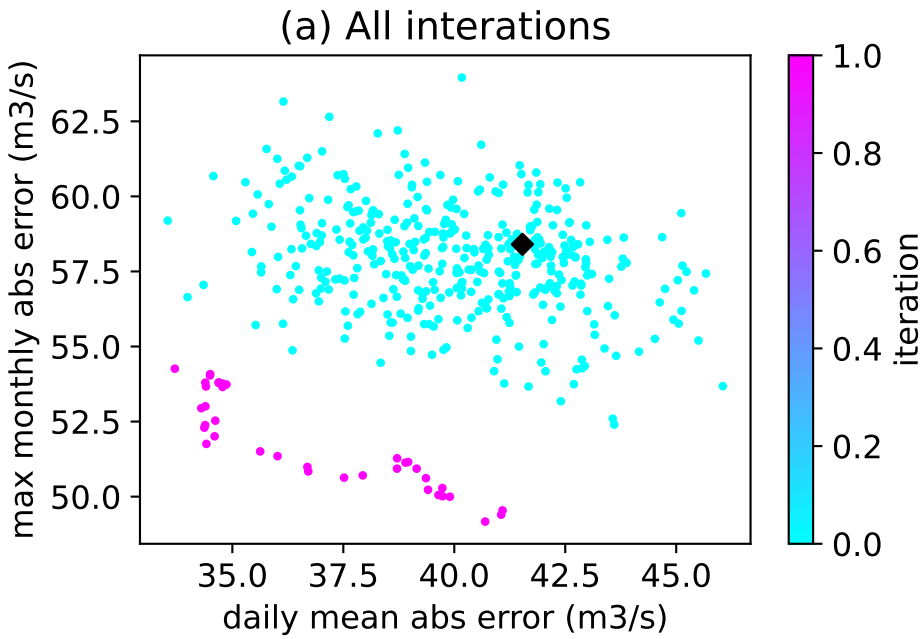
basinid: 624
hru_id: 14325000
lat_cen: 42.79249
lon_cen: -124.02763
AREA: 444.93 km2
elev_mean: 649.24 m

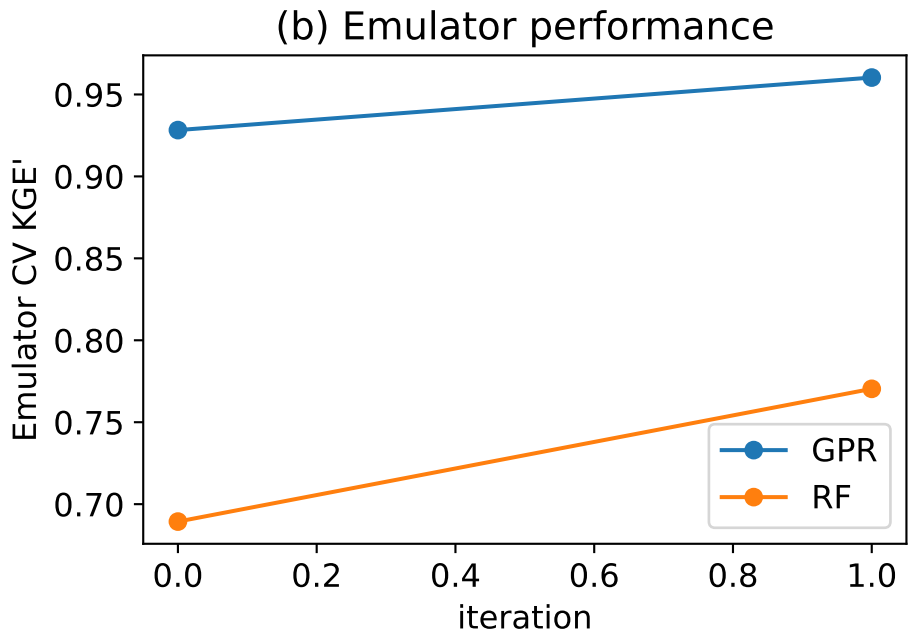


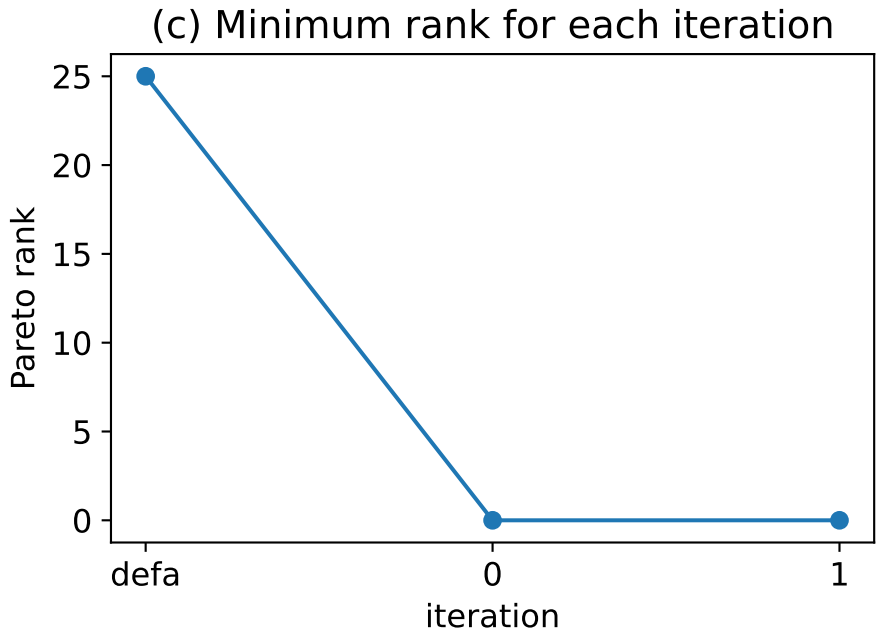




basinid: 625
hru_id: 14362250
lat_cen: 42.16583
lon_cen: -123.12535
AREA: 43.88 km2
elev_mean: 939.58 m







basinid: 626
hru_id: 14400000
lat_cen: 42.23303
lon_cen: -124.00527
AREA: 703.39 km2
elev_mean: 668.43 m