/ScenarioA.csv_OUT_2020.03.03.10.46.01.pdf

f_{re} = 1.35

point # = 5 (@ 100 m)

drop factor = 0.1

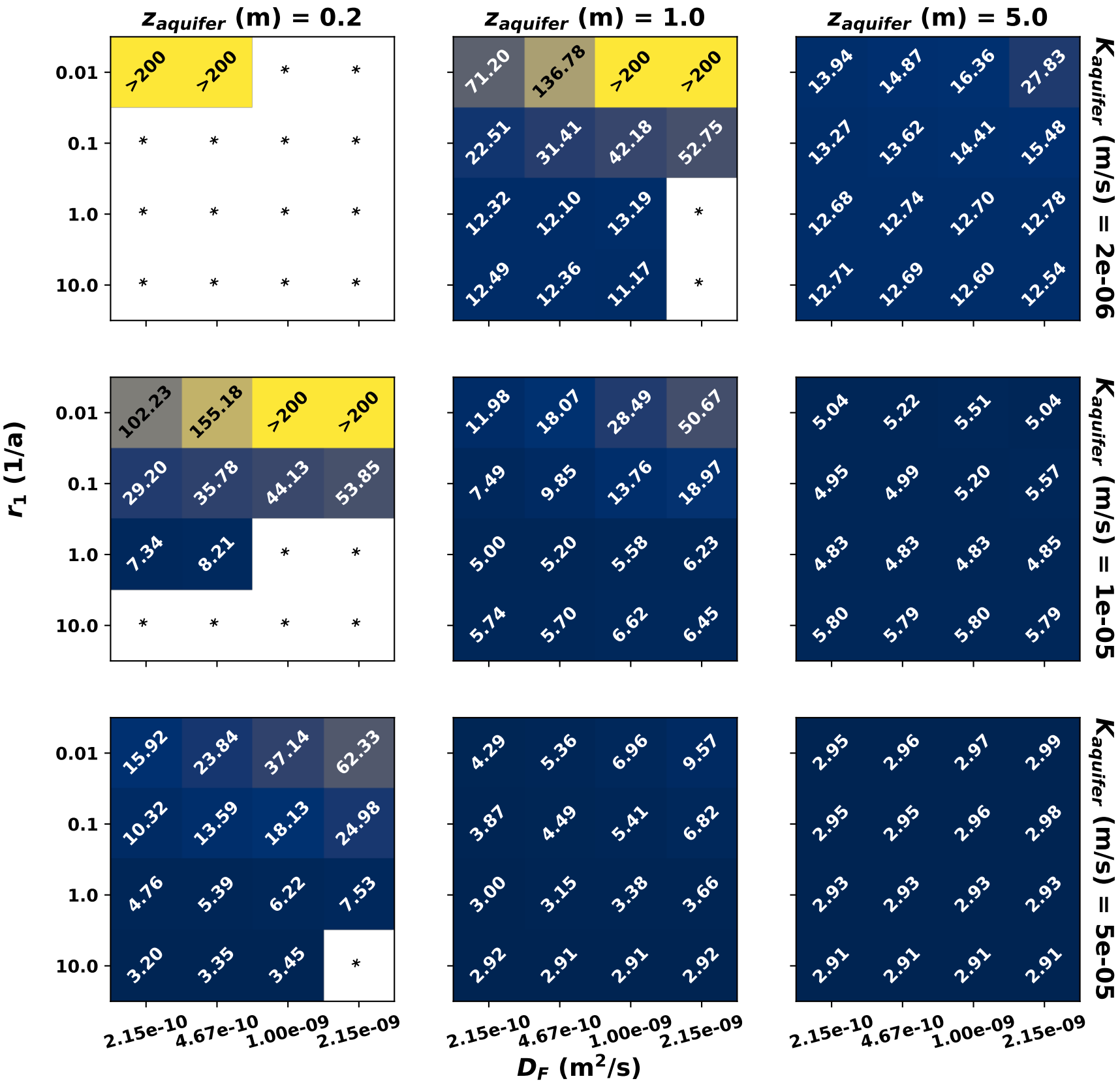
cutOffC = 1e-05

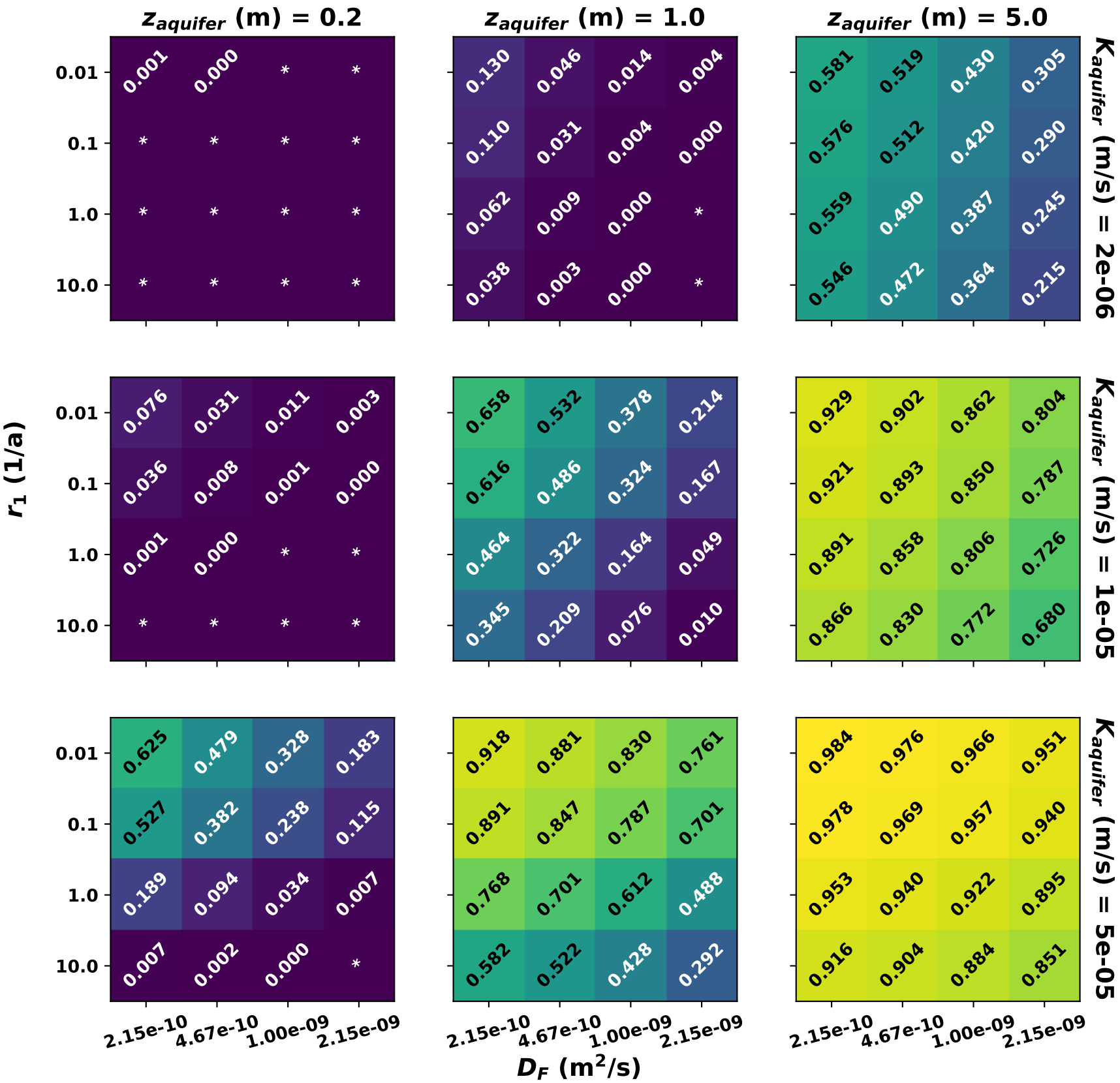
order of figures:

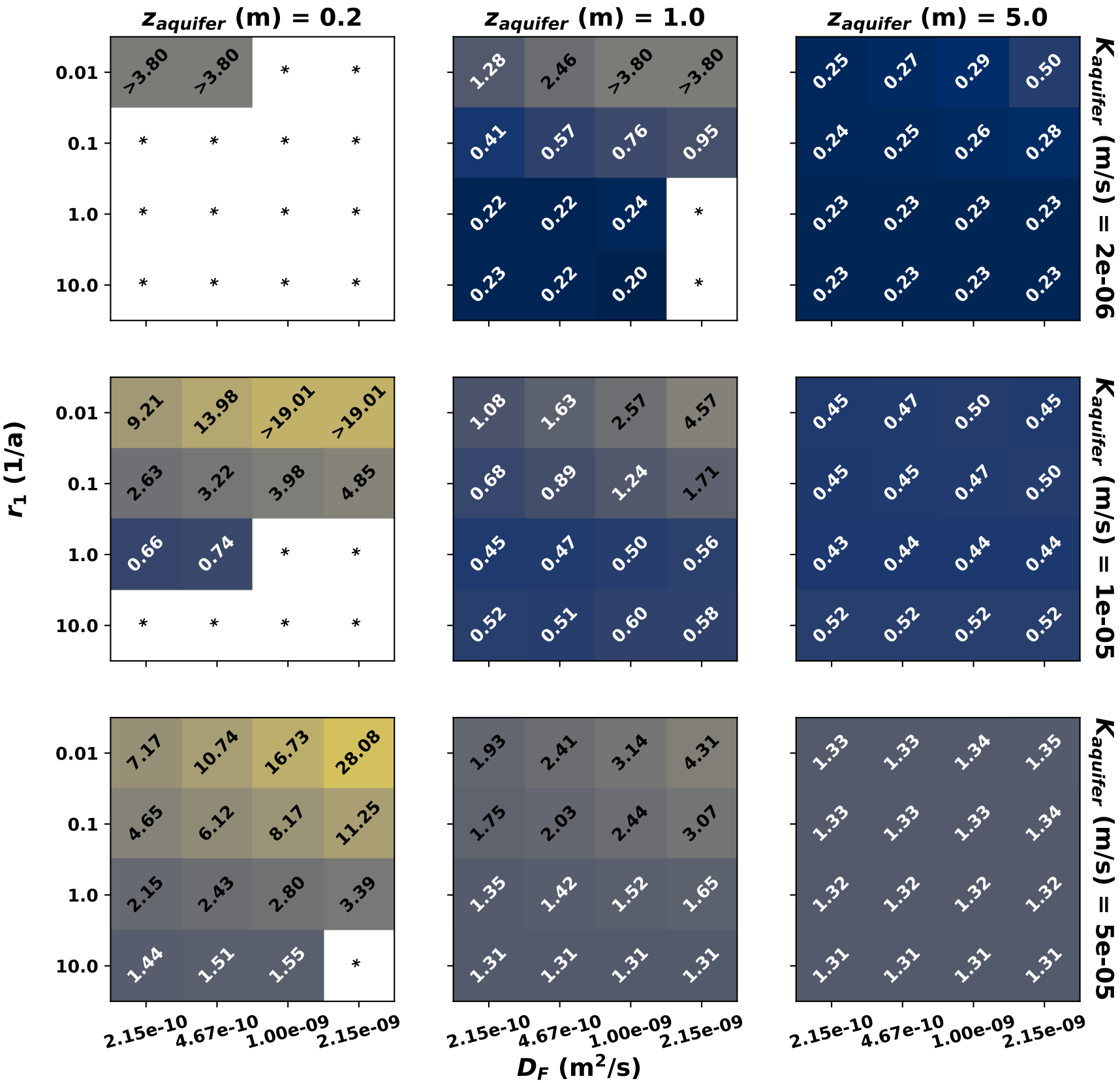
time (years) for attenuation after peak

peak value (mol/m^3)

n pore volumes for attenuation after peak


$z_{aquifer}$ (m) = 0.2
$z_{aquifer}$ (m) = 1.0
$z_{aquifer}$ (m) = 5.0
$K_{aquifer}$ (m/s) = 2e-06
$K_{aquifer}$ (m/s) = 1e-05
$K_{aquifer}$ (m/s) = 5e-05
r_1 (1/a)
0.01
0.1
1.0
10.0
>200 >200 * *
* * * *
* * * *
* * * *
71.20 136.78 >200 >200
22.51 31.41 42.18 52.75
12.32 12.10 13.19 *
12.49 12.36 11.17 *
13.94 14.87 16.36 27.83
13.27 13.62 14.41 15.48
12.68 12.74 12.70 12.78
12.71 12.69 12.60 12.54
102.23 155.18 >200 >200
29.20 35.78 44.13 53.85
7.34 8.21 * *
* * * *
11.98 18.07 28.49 50.67
7.49 9.85 13.76 18.97
5.00 5.20 5.58 6.23
5.74 5.70 6.62 6.45
5.04 5.22 5.51 5.04
4.95 4.99 5.20 5.57
4.83 4.83 4.83 4.85
5.80 5.79 5.80 5.79
15.92 23.84 37.14 62.33
10.32 13.59 18.13 24.98
4.76 5.39 6.22 7.53
3.20 3.35 3.45 *
4.29 5.36 6.96 9.57
3.87 4.49 5.41 6.82
3.00 3.15 3.38 3.66
2.92 2.91 2.91 2.92
2.95 2.96 2.97 2.99
2.95 2.95 2.96 2.98
2.93 2.93 2.93 2.93
2.91 2.91 2.91 2.91
2.15e-10 4.67e-10 1.00e-09 2.15e-09
D_F (m²/s)


$z_{aquifer}$ (m) = 0.2
$z_{aquifer}$ (m) = 1.0
$z_{aquifer}$ (m) = 5.0
$K_{aquifer}$ (m/s) = 2e-06
$K_{aquifer}$ (m/s) = 1e-05
$K_{aquifer}$ (m/s) = 5e-05
r_1 (1/a)
0.01
0.1
1.0
10.0
0.001 0.000 * *
* * * *
* * * *
* * * *
0.130 0.046 0.014 0.004
0.110 0.031 0.004 0.000
0.062 0.009 0.000 *
0.038 0.003 0.000 *
0.581 0.519 0.430 0.305
0.576 0.512 0.420 0.290
0.559 0.490 0.387 0.245
0.546 0.472 0.364 0.215
0.076 0.031 0.011 0.003
0.036 0.008 0.001 0.000
0.001 0.000 * *
* * * *
0.658 0.532 0.378 0.214
0.616 0.486 0.324 0.167
0.464 0.322 0.164 0.049
0.345 0.209 0.076 0.010
0.929 0.902 0.862 0.804
0.921 0.893 0.850 0.787
0.891 0.858 0.806 0.726
0.866 0.830 0.772 0.680
0.625 0.479 0.328 0.183
0.527 0.382 0.238 0.115
0.189 0.094 0.034 0.007
0.007 0.002 0.000 *
0.918 0.881 0.830 0.761
0.891 0.847 0.787 0.701
0.768 0.701 0.612 0.488
0.582 0.522 0.428 0.292
0.984 0.976 0.966 0.951
0.978 0.969 0.957 0.940
0.953 0.940 0.922 0.895
0.916 0.904 0.884 0.851
2.15e-10
4.67e-10
1.00e-09
2.15e-09
D_F (m²/s)


$z_{aquifer}$ (m) = 0.2
$z_{aquifer}$ (m) = 1.0
$z_{aquifer}$ (m) = 5.0
$K_{aquifer}$ (m/s) = 2e-06
$K_{aquifer}$ (m/s) = 1e-05
$K_{aquifer}$ (m/s) = 5e-05
r_1 (1/a)
0.01
0.1
1.0
10.0
>3.80 >3.80 * *
* * * *
* * * *
* * * *
1.28 2.46 >3.80 >3.80
0.41 0.57 0.76 0.95
0.22 0.22 0.24 *
0.23 0.22 0.20 *
0.25 0.27 0.29 0.50
0.24 0.25 0.26 0.28
0.23 0.23 0.23 0.23
0.23 0.23 0.23 0.23
9.21 13.98 >19.01 >19.01
2.63 3.22 3.98 4.85
0.66 0.74 * *
* * * *
1.08 1.63 2.57 4.57
0.68 0.89 1.24 1.71
0.45 0.47 0.50 0.56
0.52 0.51 0.60 0.58
0.45 0.47 0.50 0.45
0.45 0.45 0.47 0.50
0.43 0.44 0.44 0.44
0.52 0.52 0.52 0.52
7.17 10.74 16.73 28.08
4.65 6.12 8.17 11.25
2.15 2.43 2.80 3.39
1.44 1.51 1.55 *
1.93 2.41 3.14 4.31
1.75 2.03 2.44 3.07
1.35 1.42 1.52 1.65
1.31 1.31 1.31 1.31
1.33 1.33 1.34 1.35
1.33 1.33 1.33 1.34
1.32 1.32 1.32 1.32
1.31 1.31 1.31 1.31
2.15e-10 4.67e-10 1.00e-09 2.15e-09
D_F (m^2/s)

/ScenarioA.csv_OUT_2020.03.03.10.46.01.pdf

f_{re} = 3.5

point # = 5 (@ 100 m)

drop factor = 0.1

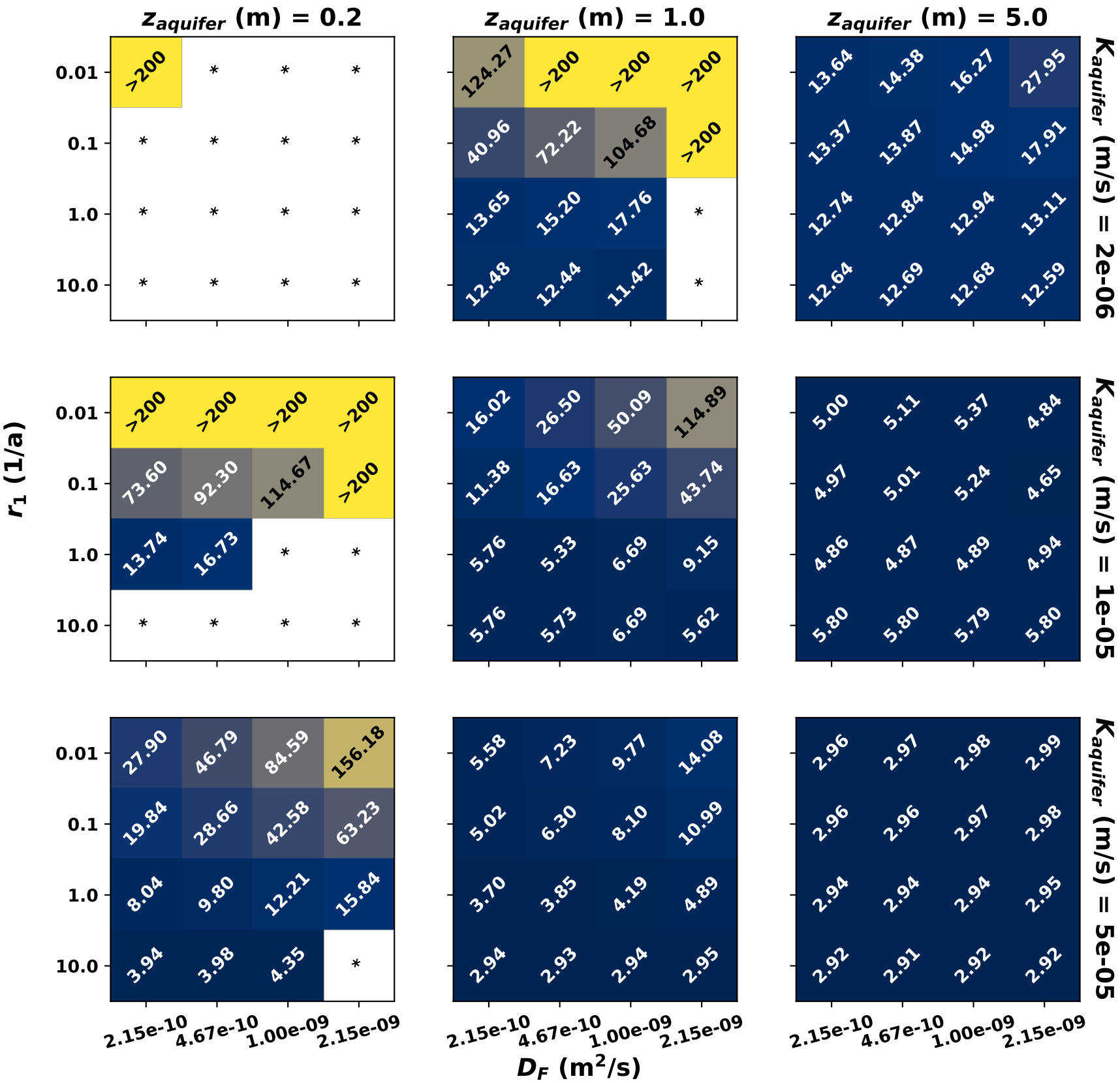
cutOffC = 1e-05

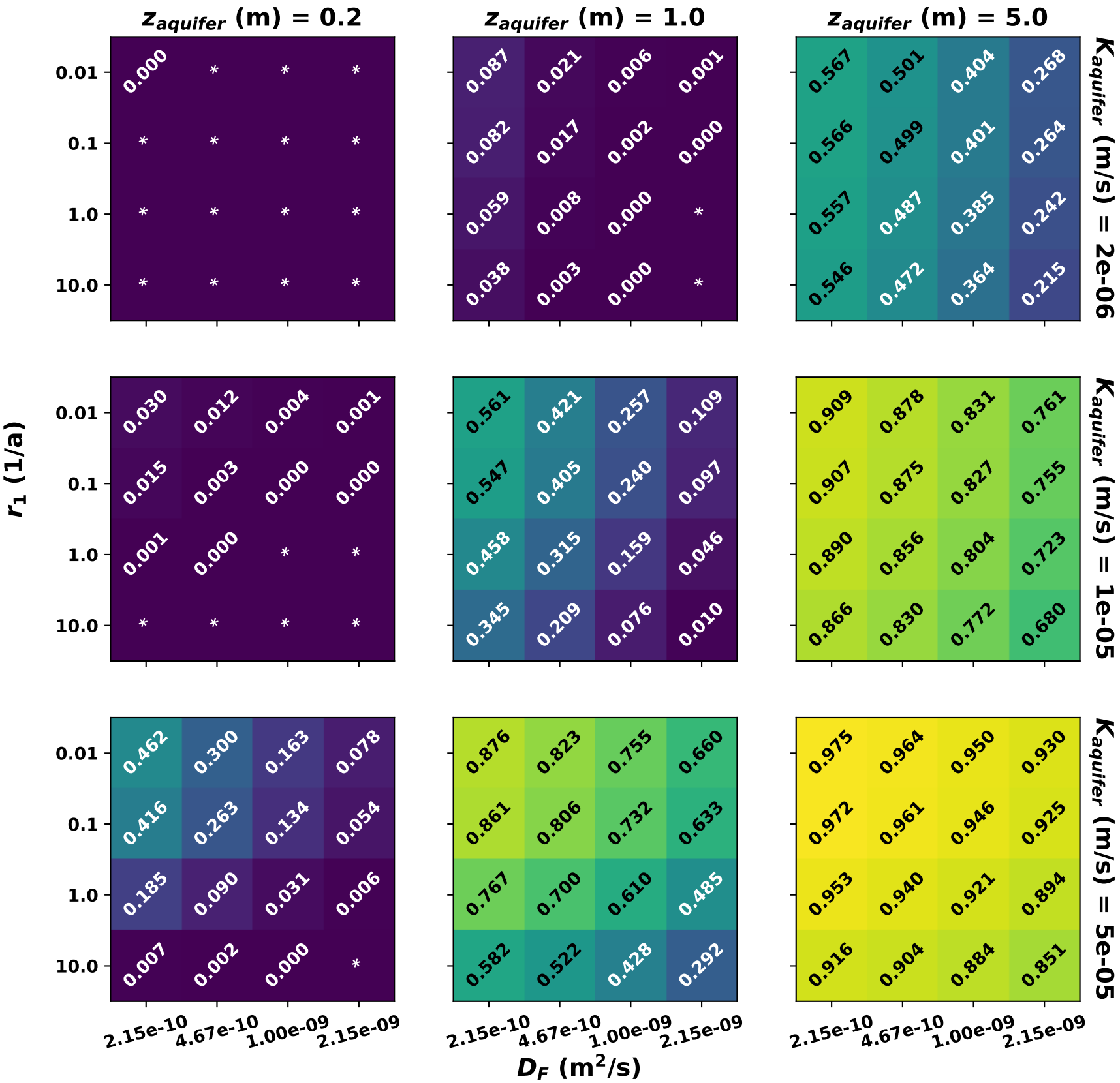
order of figures:

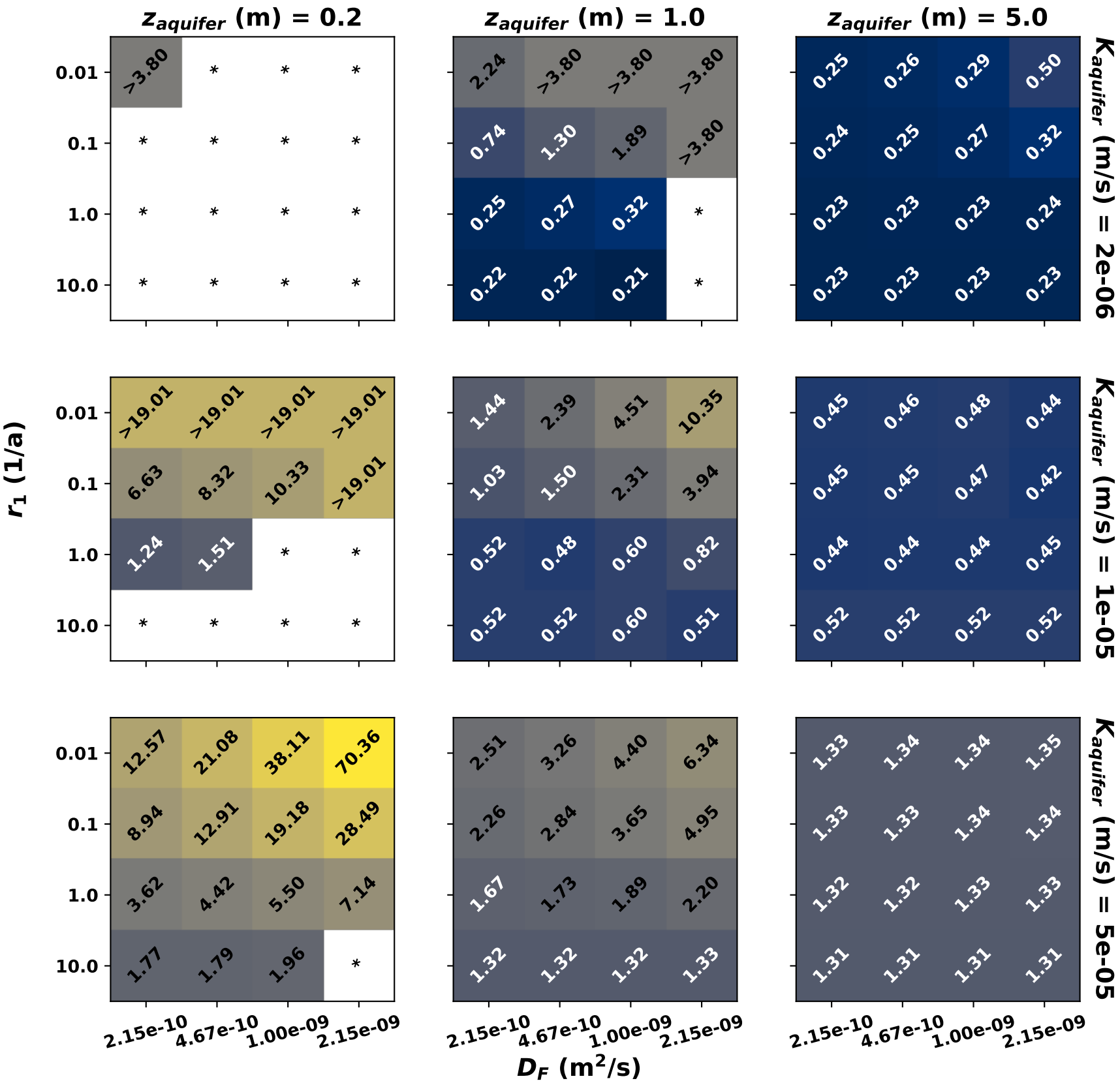
time (years) for attenuation after peak

peak value (mol/m^3)

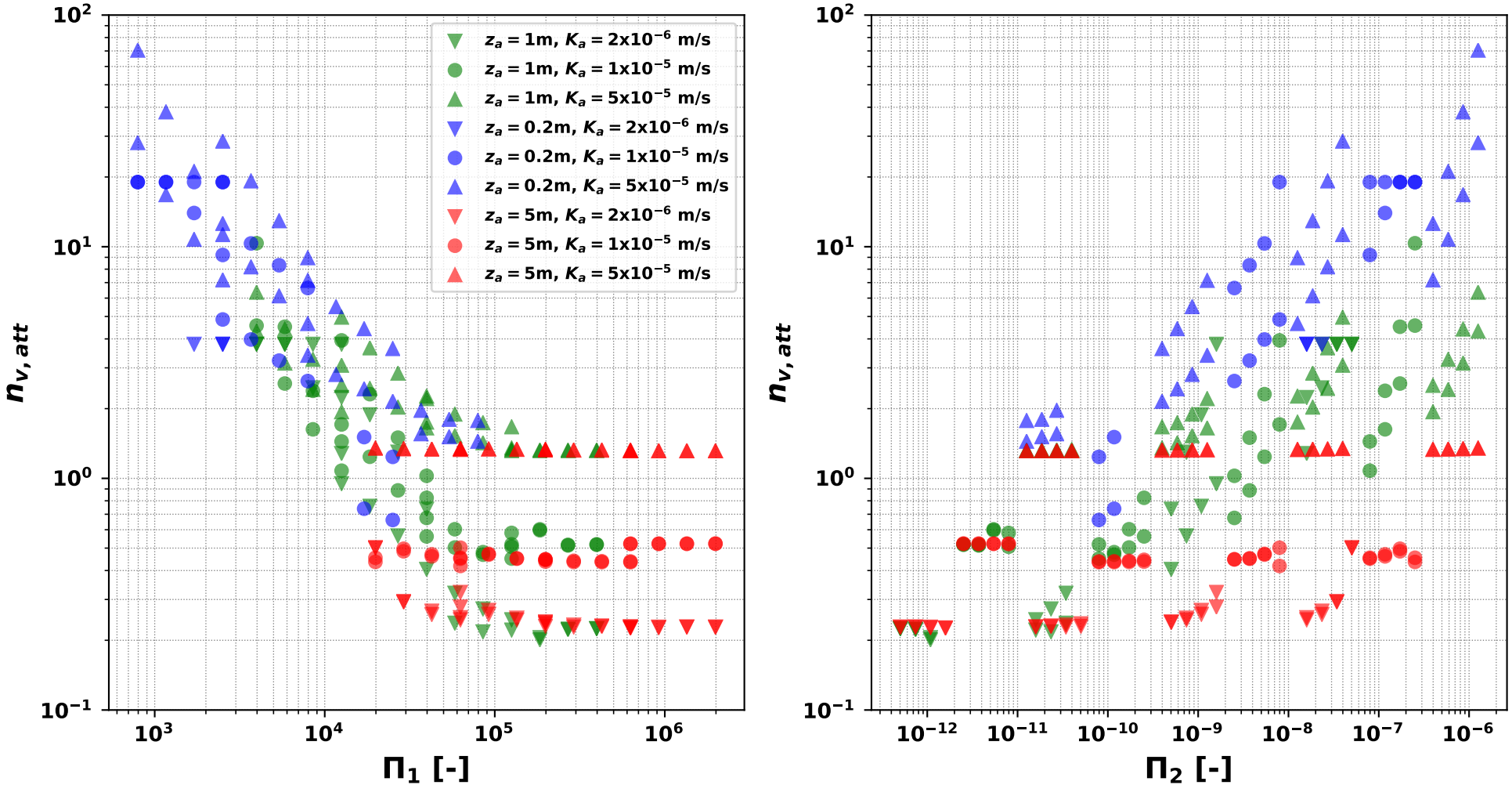
n pore volumes for attenuation after peak

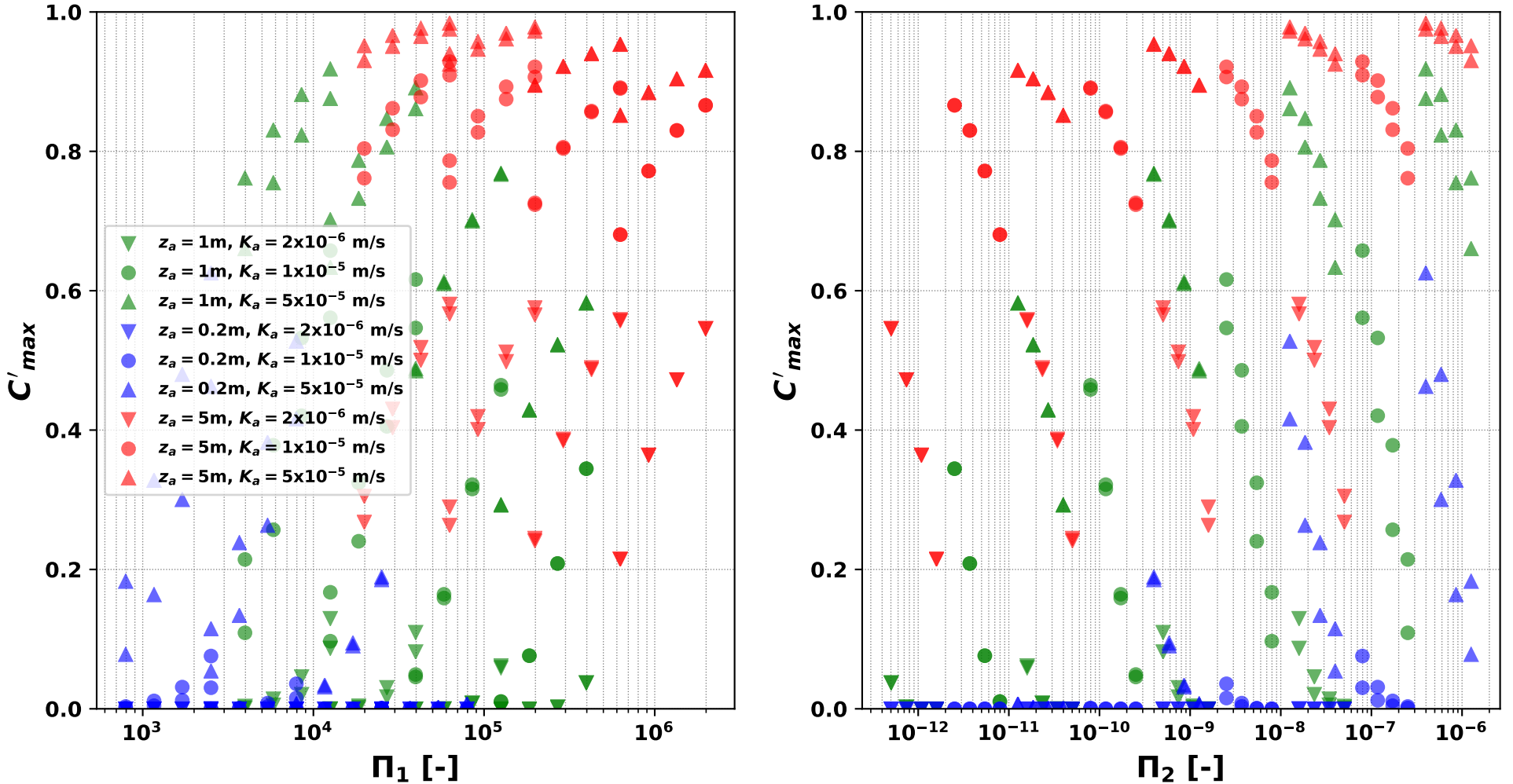

$z_{aquifer}$ (m) = 0.2
$z_{aquifer}$ (m) = 1.0
$z_{aquifer}$ (m) = 5.0
$K_{aquifer}$ (m/s) = 2e-06
$K_{aquifer}$ (m/s) = 1e-05
$K_{aquifer}$ (m/s) = 5e-05
r_1 (1/a)
0.01
0.1
1.0
10.0
>200
124.27
40.96
72.22
104.68
13.65
15.20
17.76
12.48
12.44
11.42
13.64
14.38
16.27
27.95
13.37
13.87
14.98
17.91
12.74
12.84
12.94
13.11
12.64
12.69
12.68
12.59
73.60
92.30
114.67
13.74
16.73
16.02
26.50
50.09
114.89
11.38
16.63
25.63
43.74
5.76
5.33
6.69
9.15
5.73
5.62
5.00
5.11
5.37
4.84
4.97
5.01
5.24
4.65
4.86
4.87
4.89
4.94
5.80
5.79
27.90
46.79
84.59
156.18
19.84
28.66
42.58
63.23
8.04
9.80
12.21
15.84
3.94
3.98
4.35
5.58
7.23
9.77
14.08
5.02
6.30
8.10
10.99
3.70
3.85
4.19
4.89
2.93
2.96
2.97
2.98
2.99
2.95
2.92
2.91
2.15e-10
4.67e-10
1.00e-09
2.15e-09
D_F (m^2/s)

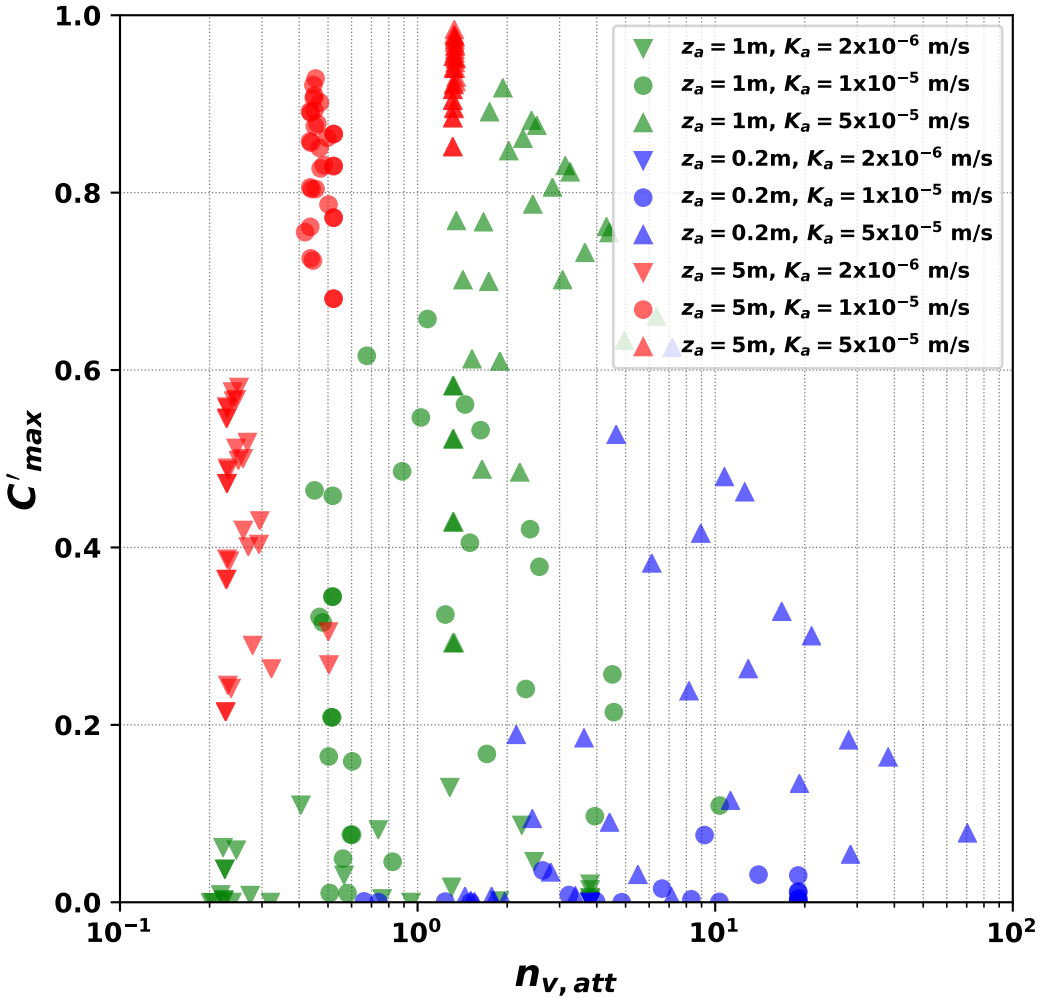

$z_{aquifer}$ (m) = 0.2
$z_{aquifer}$ (m) = 1.0
$z_{aquifer}$ (m) = 5.0
$K_{aquifer}$ (m/s) = 2e-06
$K_{aquifer}$ (m/s) = 1e-05
$K_{aquifer}$ (m/s) = 5e-05
r_1 (1/a)
0.01
0.1
1.0
10.0
0.000 * * *
* * * *
* * * *
* * * *
0.087 0.021 0.006 0.001
0.082 0.017 0.002 0.000
0.059 0.008 0.000 *
0.038 0.003 0.000 *
0.567 0.501 0.404 0.268
0.566 0.499 0.401 0.264
0.557 0.487 0.385 0.242
0.546 0.472 0.364 0.215
0.030 0.012 0.004 0.001
0.015 0.003 0.000 0.000
0.001 0.000 * *
* * * *
0.561 0.421 0.257 0.109
0.547 0.405 0.240 0.097
0.458 0.315 0.159 0.046
0.345 0.209 0.076 0.010
0.909 0.878 0.831 0.761
0.907 0.875 0.827 0.755
0.890 0.856 0.804 0.723
0.866 0.830 0.772 0.680
0.462 0.300 0.163 0.078
0.416 0.263 0.134 0.054
0.185 0.090 0.031 0.006
0.007 0.002 0.000 *
0.876 0.823 0.755 0.660
0.861 0.806 0.732 0.633
0.767 0.700 0.610 0.485
0.582 0.522 0.428 0.292
0.975 0.964 0.950 0.930
0.972 0.961 0.946 0.925
0.953 0.940 0.921 0.894
0.916 0.904 0.884 0.851
2.15e-10
4.67e-10
1.00e-09
2.15e-09
D_F (m^2/s)

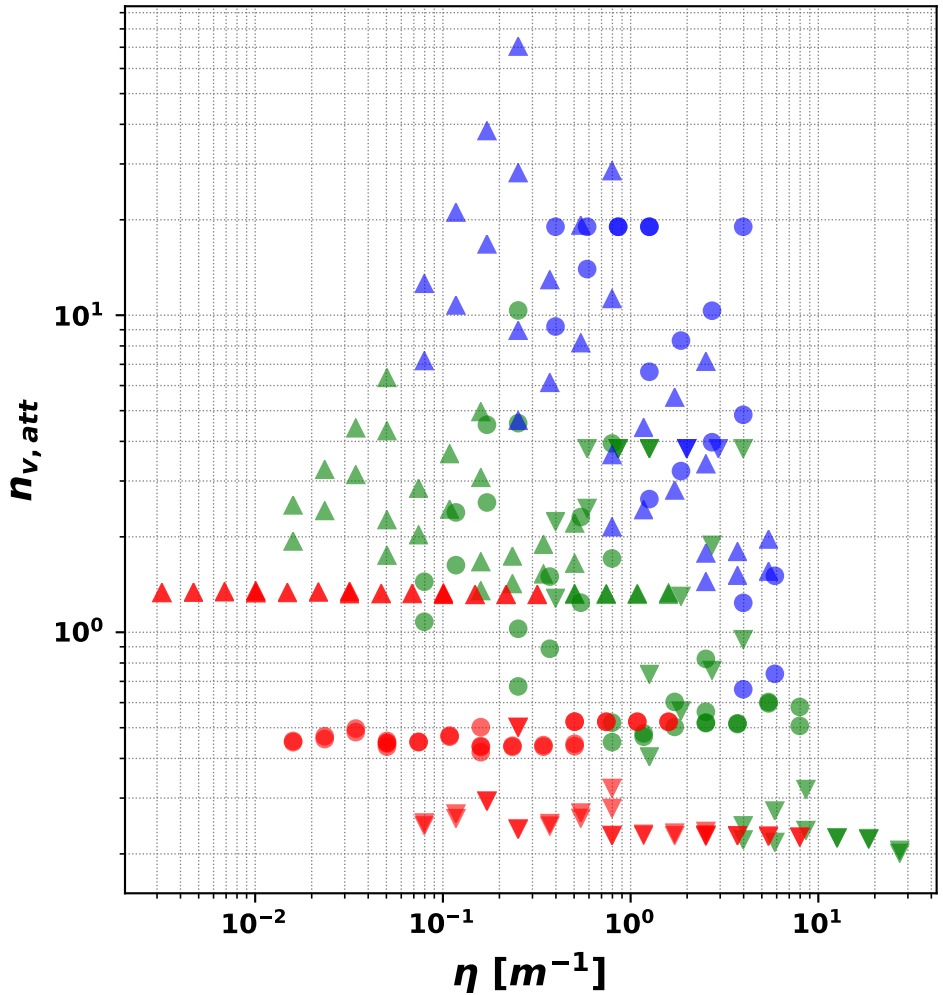

$z_{aquifer}$ (m) = 0.2
$z_{aquifer}$ (m) = 1.0
$z_{aquifer}$ (m) = 5.0
$K_{aquifer}$ (m/s) = 2e-06
$K_{aquifer}$ (m/s) = 1e-05
$K_{aquifer}$ (m/s) = 5e-05
r_1 (1/a)
0.01
0.1
1.0
10.0
>3.80
2.24
0.74
1.30
1.89
0.25
0.27
0.32
0.22
0.21
0.25
0.26
0.29
0.50
0.24
0.25
0.27
0.32
0.23
0.23
0.23
0.24
>19.01
6.63
8.32
10.33
1.24
1.51
1.44
2.39
4.51
10.35
1.03
1.50
2.31
3.94
0.52
0.48
0.60
0.82
0.51
0.45
0.46
0.48
0.44
0.45
0.47
0.42
0.44
0.45
12.57
21.08
38.11
70.36
8.94
12.91
19.18
28.49
3.62
4.42
5.50
7.14
1.77
1.79
1.96
2.51
3.26
4.40
6.34
2.26
2.84
3.65
4.95
1.67
1.73
1.89
2.20
1.32
1.33
1.34
1.35
1.31
2.15e-10
4.67e-10
1.00e-09
2.15e-09
D_F (m^2/s)

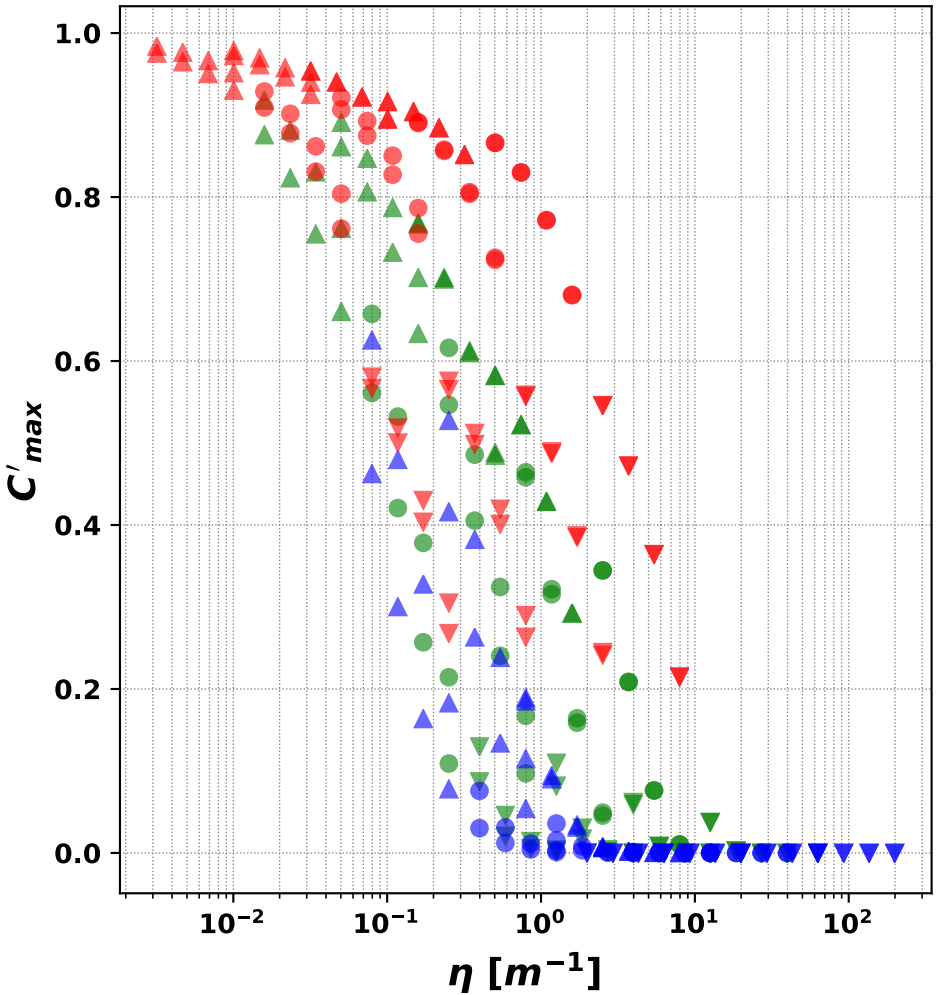
'ScenarioA.csv_OUT_2020.03.03.10.46.01.pdf
nvolving combined parameters Pi_1, Pi_2, and η...


z_a = 1m, K_a = 2x10^{-6} m/s
z_a = 1m, K_a = 1x10^{-5} m/s
z_a = 1m, K_a = 5x10^{-5} m/s
z_a = 0.2m, K_a = 2x10^{-6} m/s
z_a = 0.2m, K_a = 1x10^{-5} m/s
z_a = 0.2m, K_a = 5x10^{-5} m/s
z_a = 5m, K_a = 2x10^{-6} m/s
z_a = 5m, K_a = 1x10^{-5} m/s
z_a = 5m, K_a = 5x10^{-5} m/s
$n_{v,att}$
Π_1 [-]
Π_2 [-]


1.0
0.8
0.6
0.4
0.2
0.0
C'_{max}
10^3
10^4
10^5
10^6
Π_1 [-]
z_a = 1m, K_a = 2x10^{-6} m/s
z_a = 1m, K_a = 1x10^{-5} m/s
z_a = 1m, K_a = 5x10^{-5} m/s
z_a = 0.2m, K_a = 2x10^{-6} m/s
z_a = 0.2m, K_a = 1x10^{-5} m/s
z_a = 0.2m, K_a = 5x10^{-5} m/s
z_a = 5m, K_a = 2x10^{-6} m/s
z_a = 5m, K_a = 1x10^{-5} m/s
z_a = 5m, K_a = 5x10^{-5} m/s
1.0
0.8
0.6
0.4
0.2
0.0
C'_{max}
10^{-12}
10^{-11}
10^{-10}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
Π_2 [-]


1.0
0.8
0.6
0.4
0.2
0.0
C'_{max}
10^{-1}
10^{0}
10^{1}
10^{2}
$n_{v,att}$
$z_a = 1$m, $K_a = 2\text{x}10^{-6}$ m/s
$z_a = 1$m, $K_a = 1\text{x}10^{-5}$ m/s
$z_a = 1$m, $K_a = 5\text{x}10^{-5}$ m/s
$z_a = 0.2$m, $K_a = 2\text{x}10^{-6}$ m/s
$z_a = 0.2$m, $K_a = 1\text{x}10^{-5}$ m/s
$z_a = 0.2$m, $K_a = 5\text{x}10^{-5}$ m/s
$z_a = 5$m, $K_a = 2\text{x}10^{-6}$ m/s
$z_a = 5$m, $K_a = 1\text{x}10^{-5}$ m/s
$z_a = 5$m, $K_a = 5\text{x}10^{-5}$ m/s


$n_{v,att}$
10^1
10^0
10^{-2}
10^{-1}
10^0
10^1
η [m^{-1}]


C'_{max}
1.0
0.8
0.6
0.4
0.2
0.0
10^{-2}
10^{-1}
10^0
10^1
10^2
η [m^{-1}]