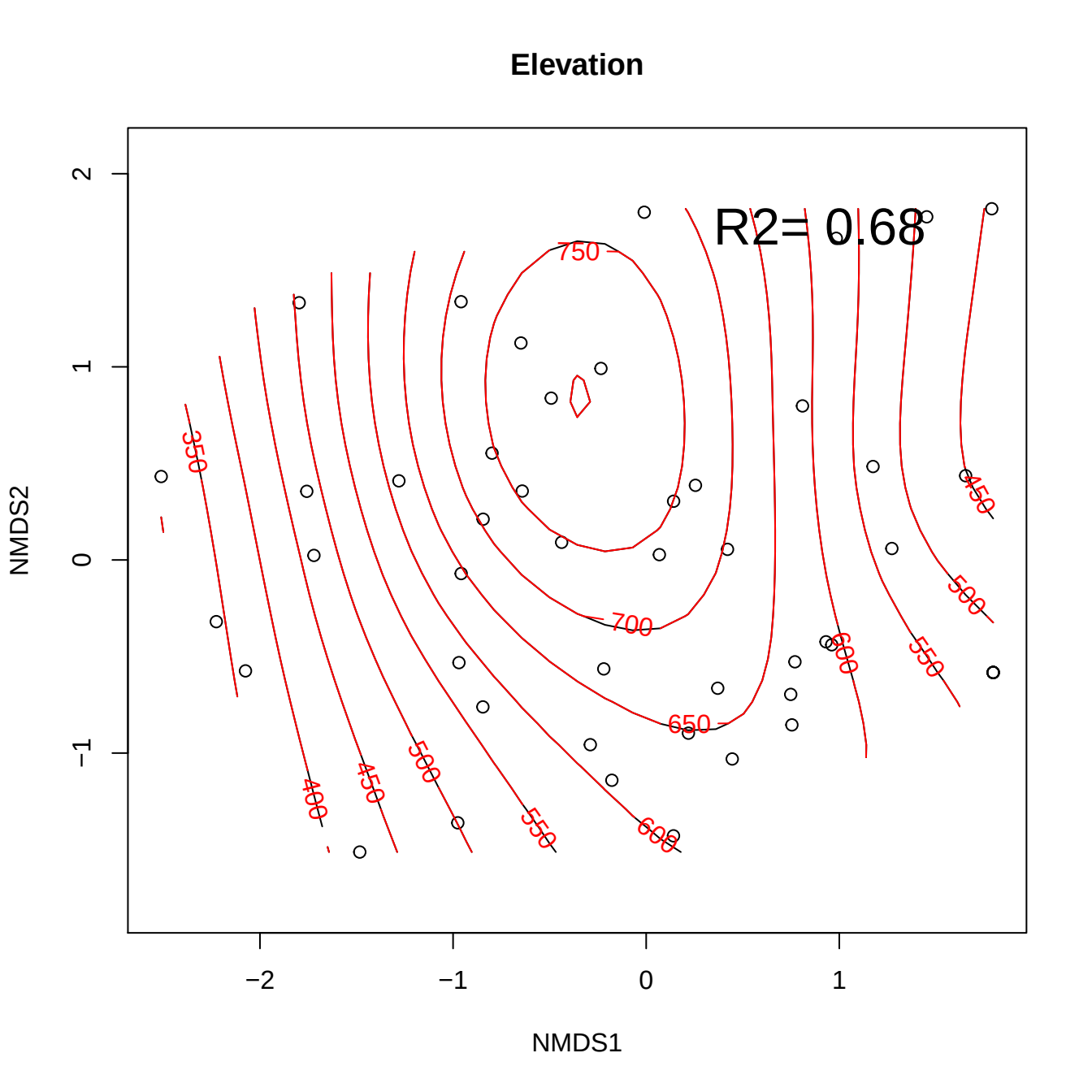
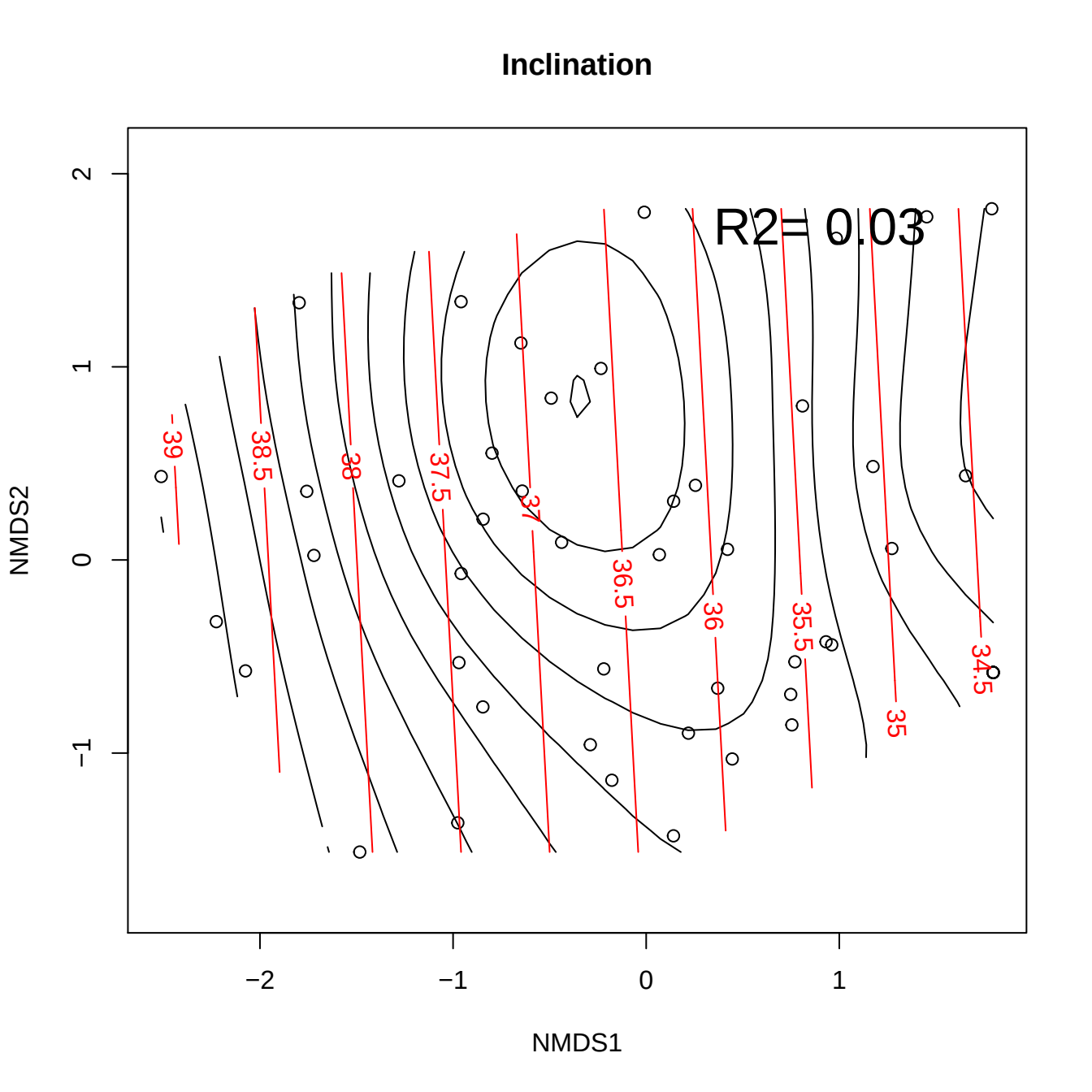
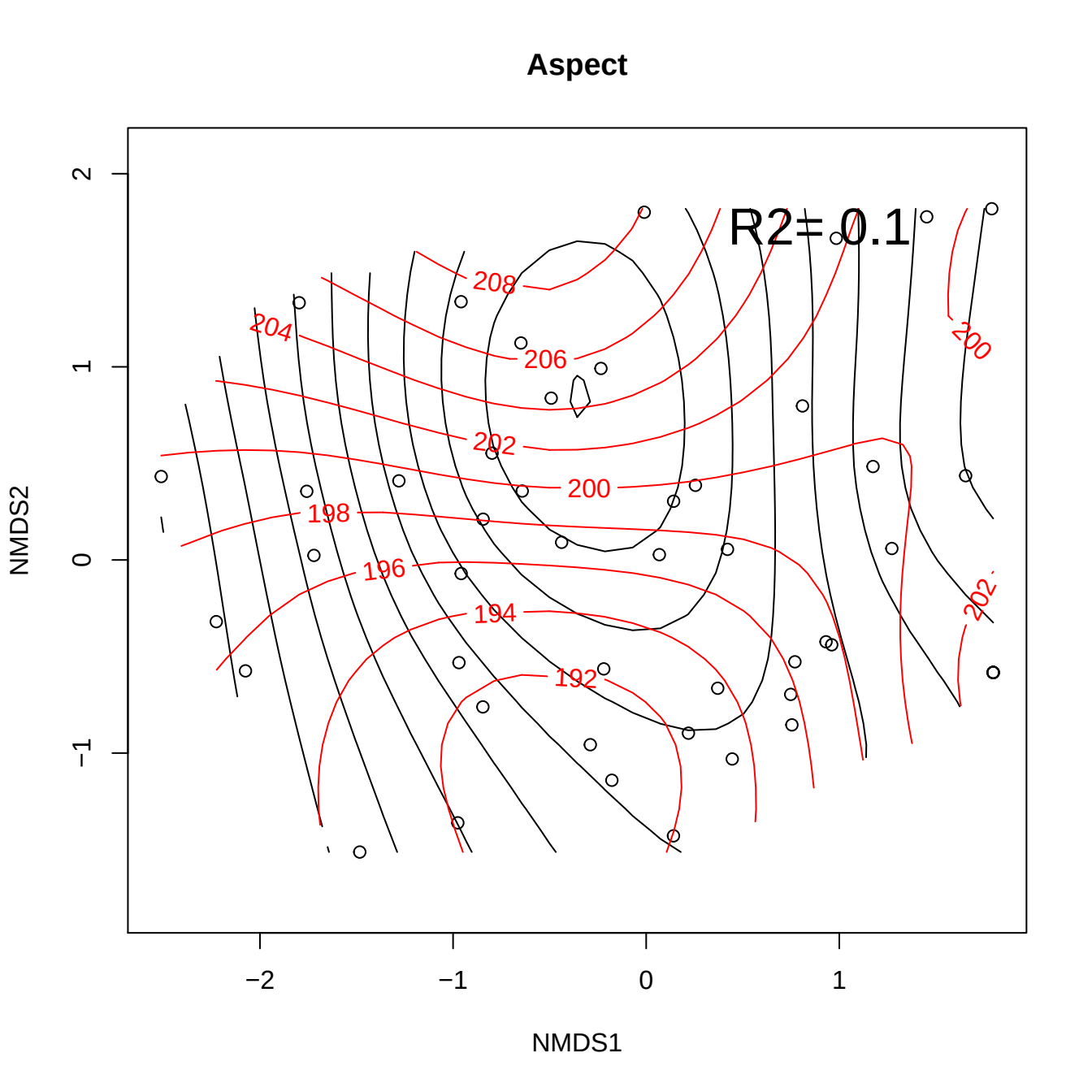
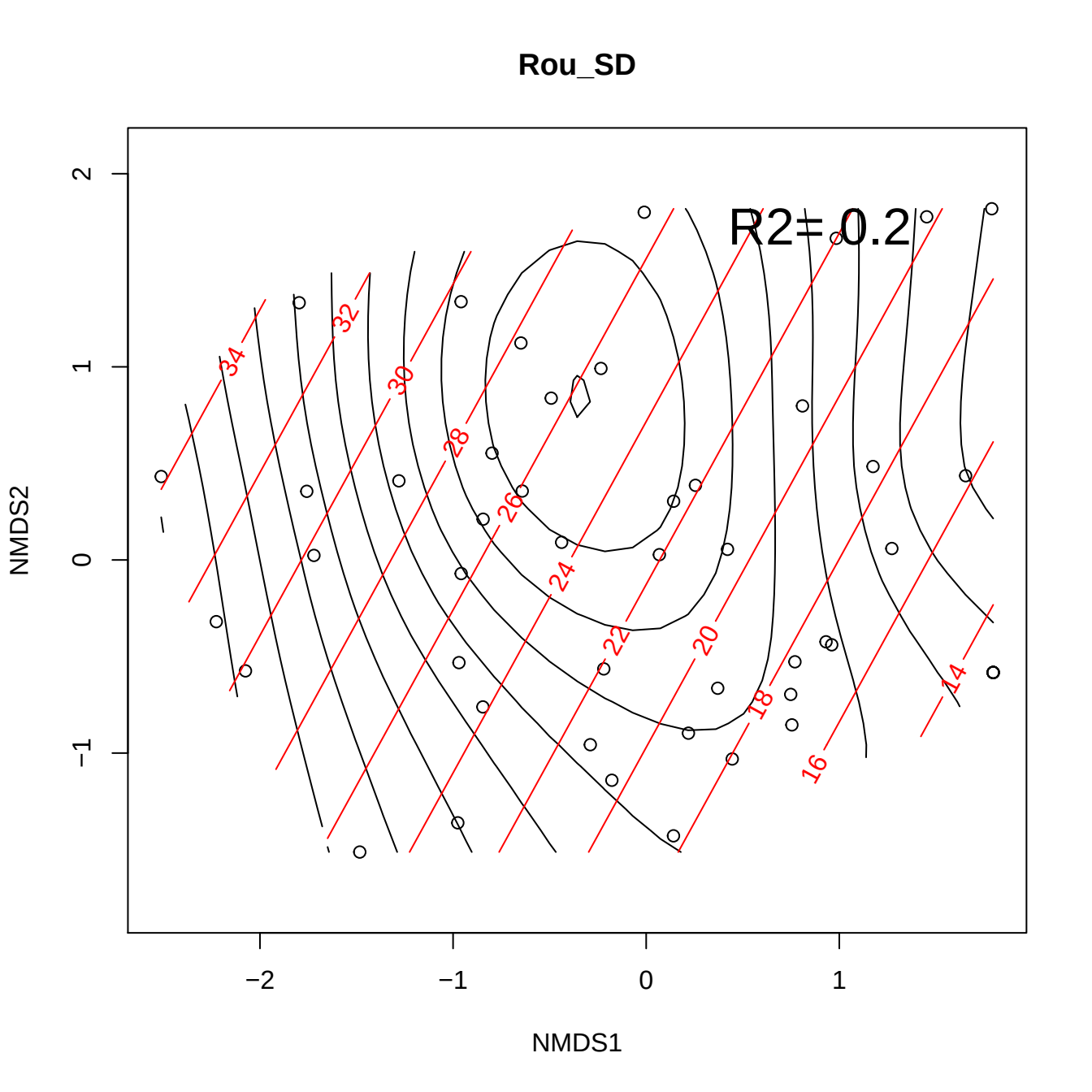
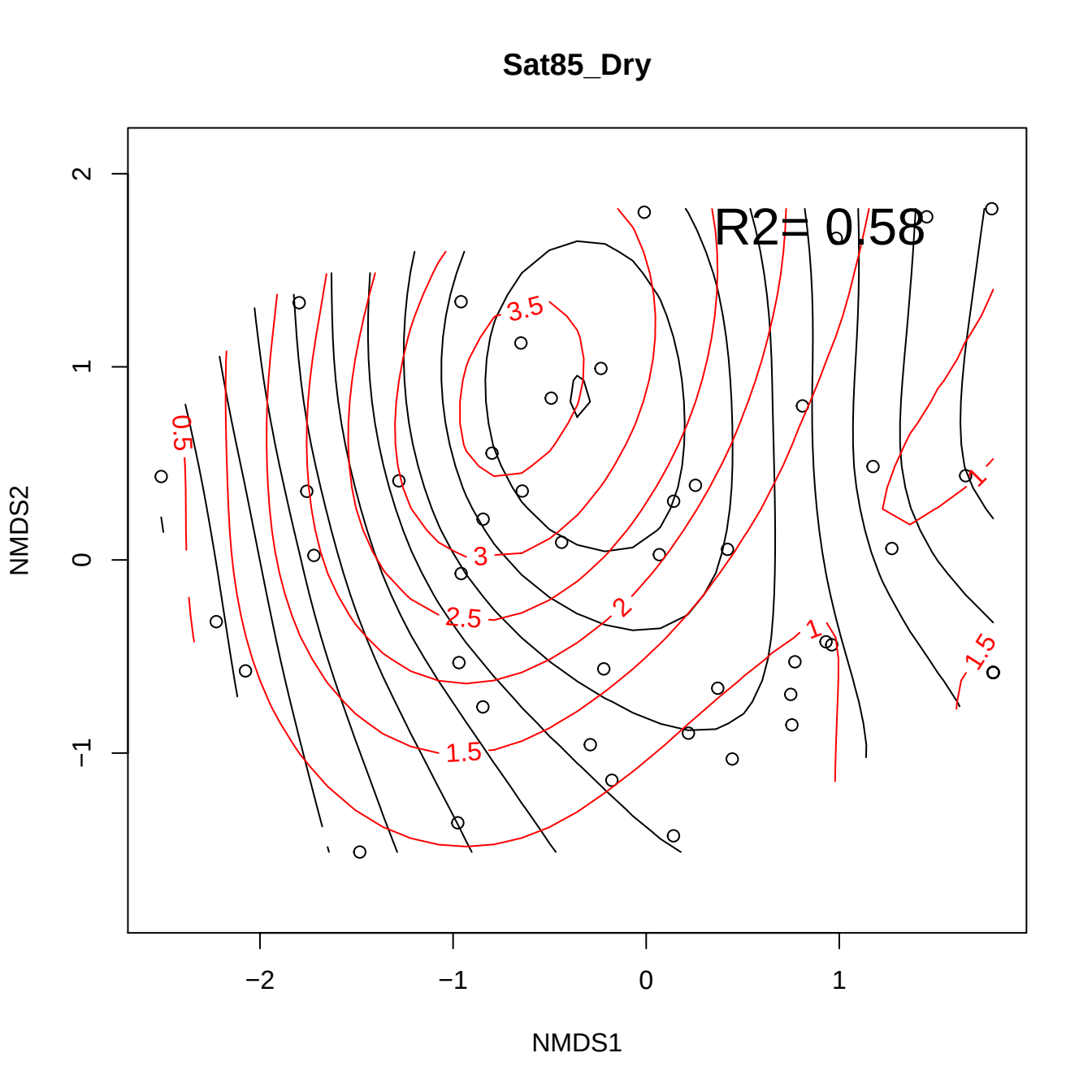
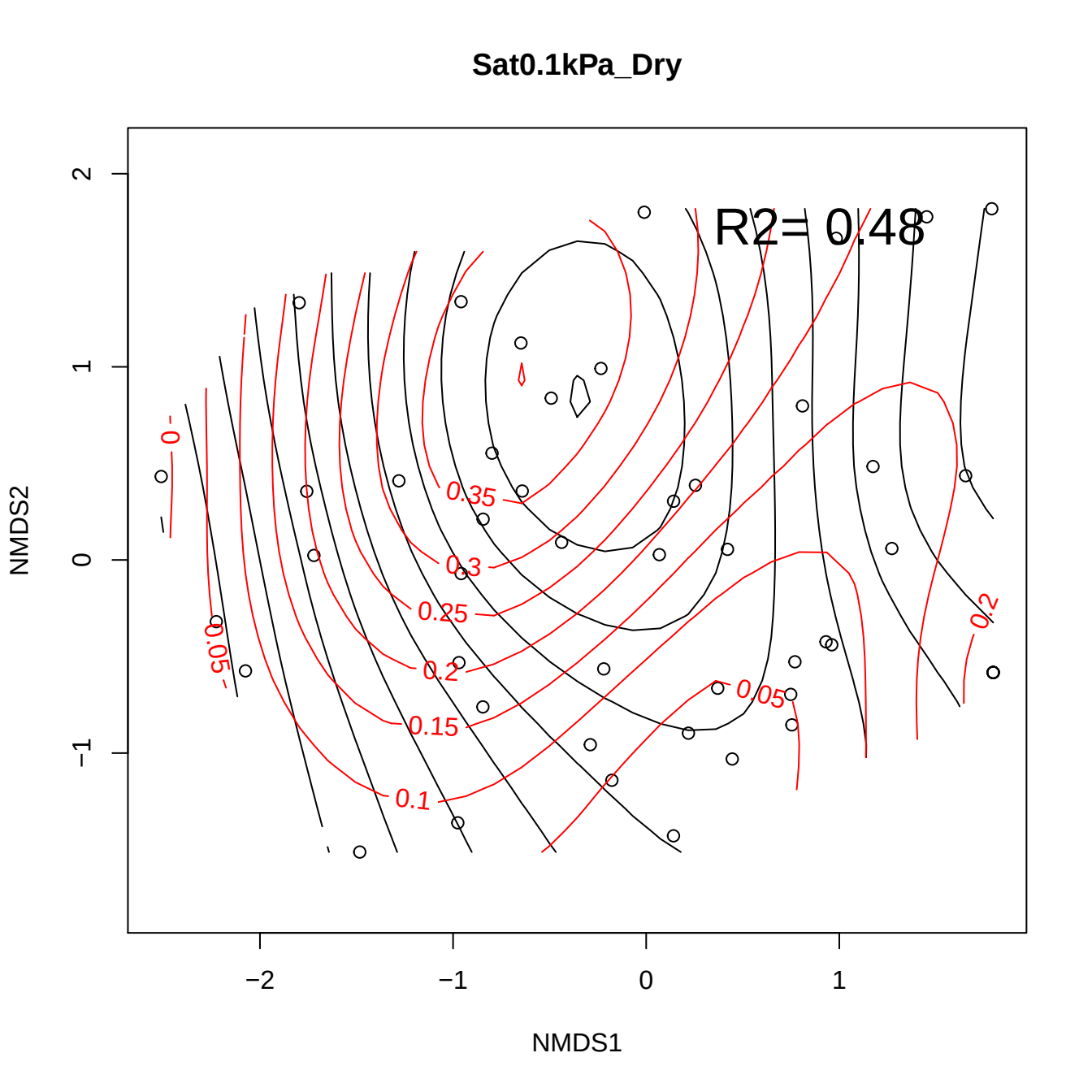

Elevation
R2= 0.68
NMDS1
NMDS2
−2
−1
0
1
2
350
400
450
500
550
600
650
700
750

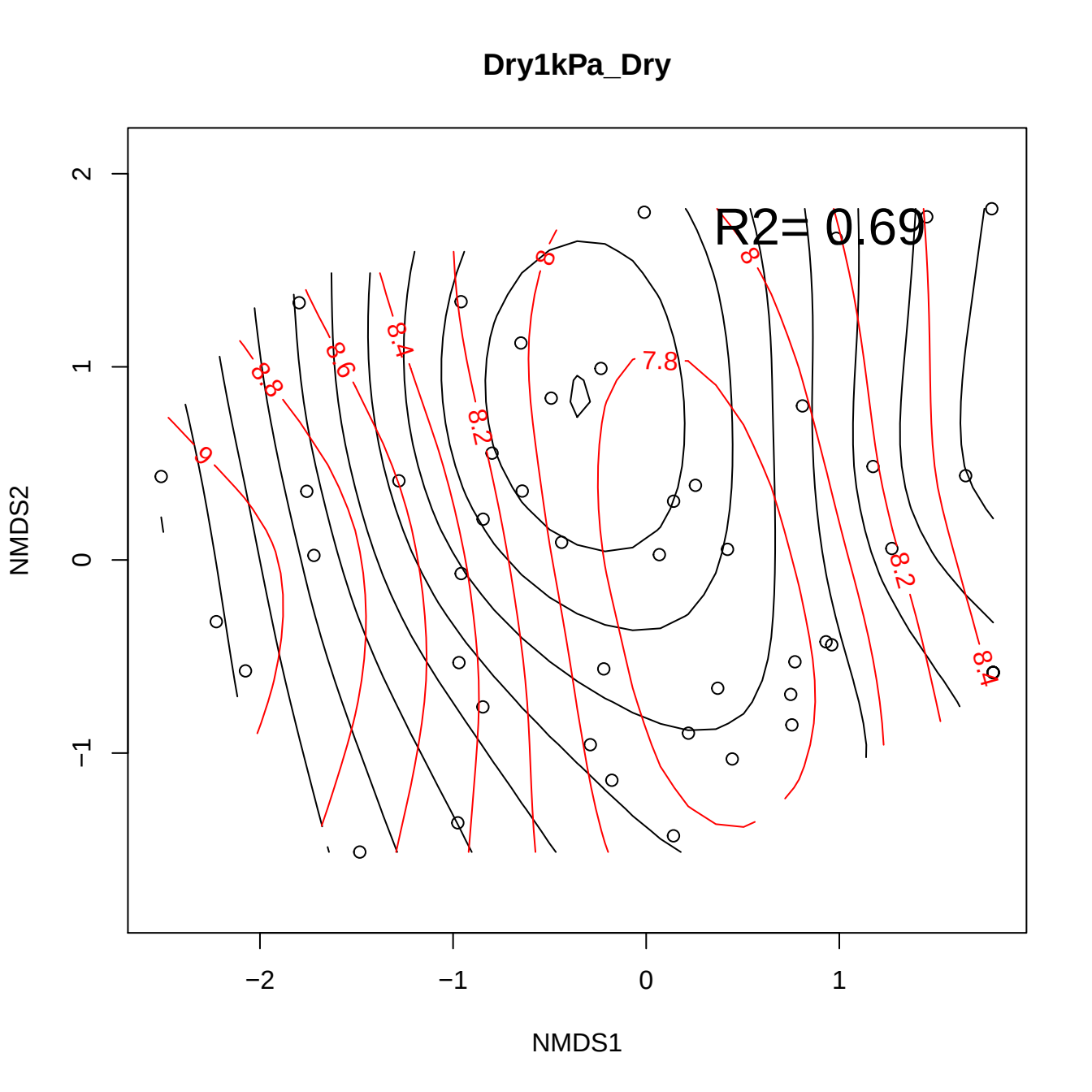

Inclination
R2 = 0.03
NMDS1
NMDS2
−2
−1
0
1
2
39
38.5
38
37.5
37
36.5
36
35.5
35
34.5

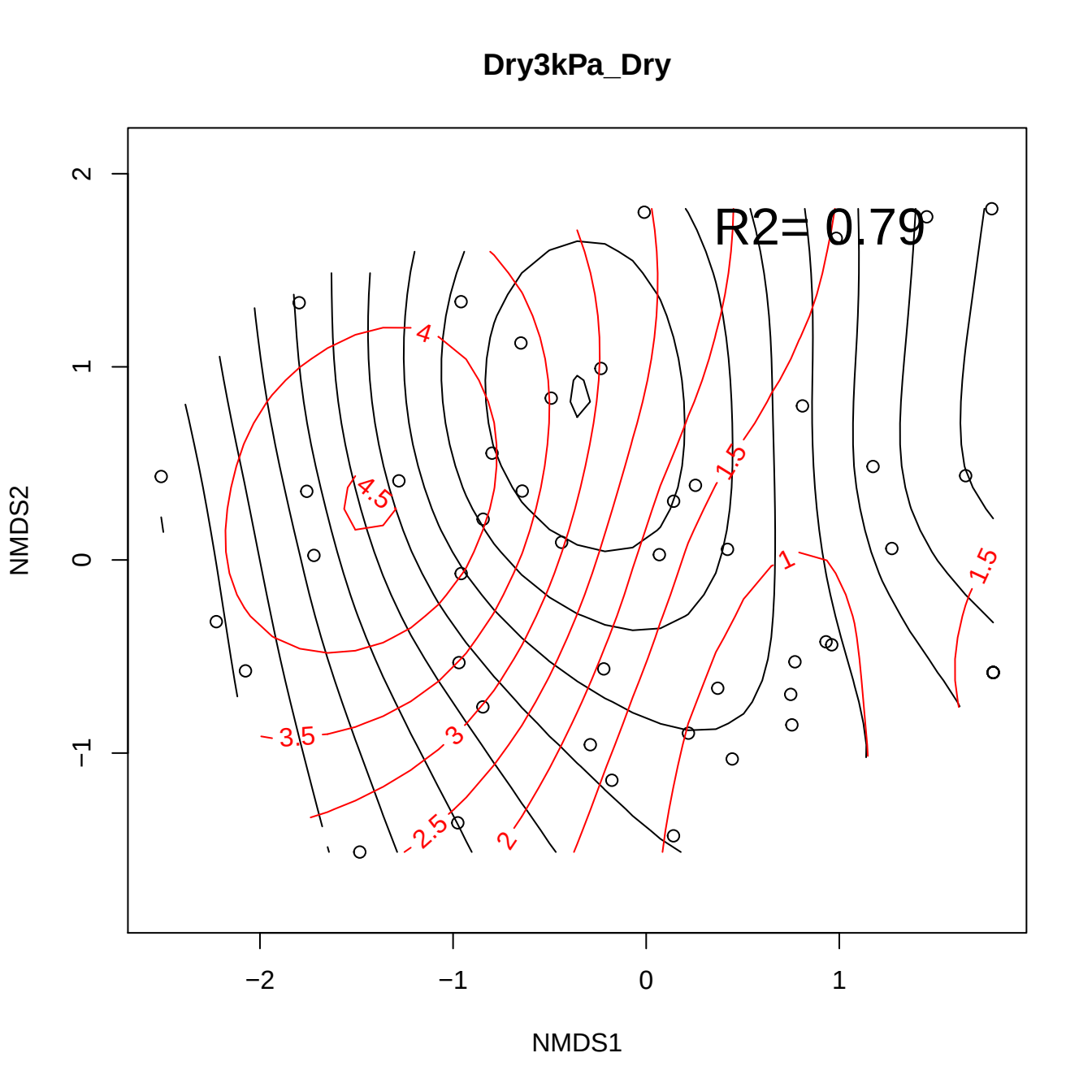

Aspect
R2=0.1
208
206
204
202
200
198
196
194
192
200
202
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

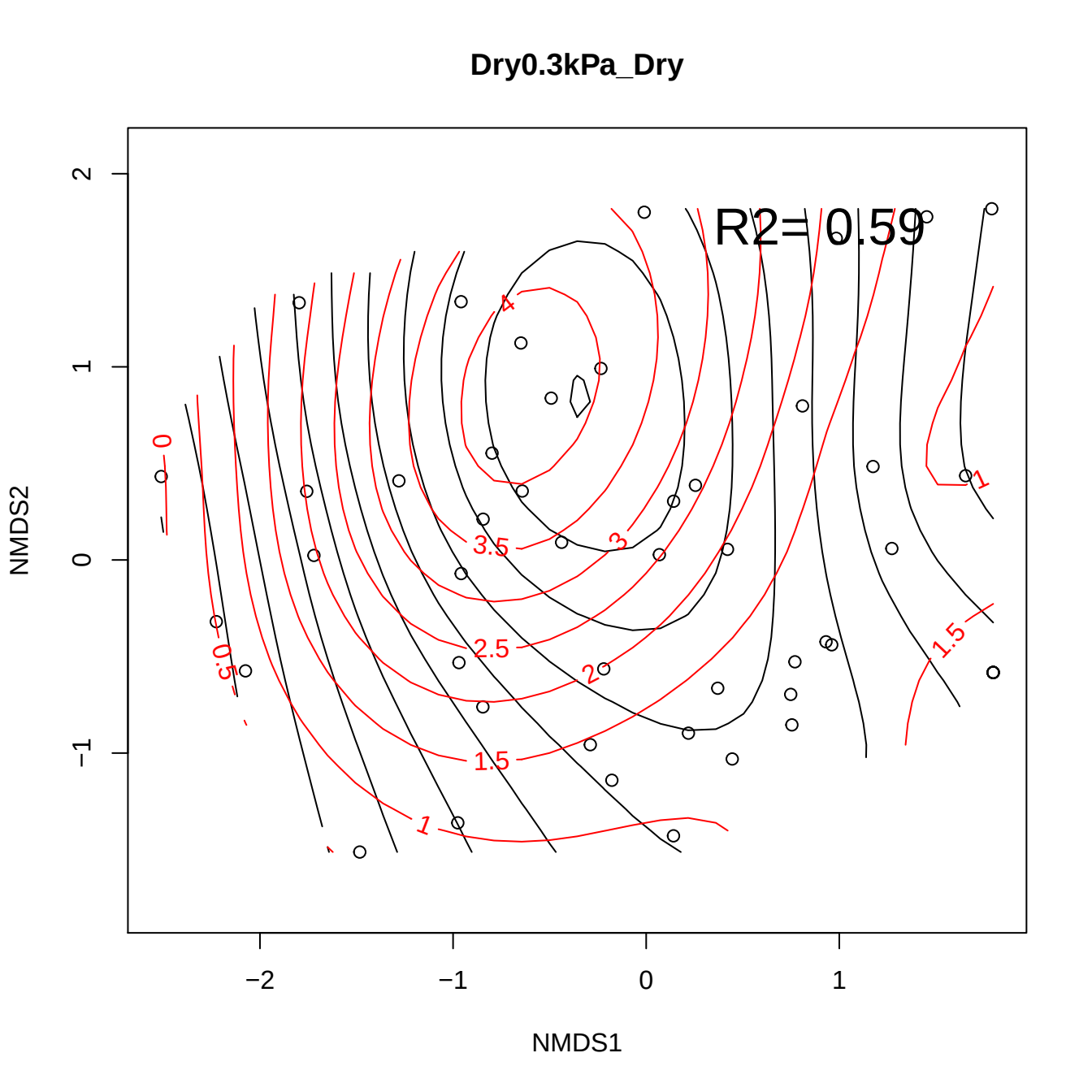

Rou_SD
R2=0.2
NMDS1
NMDS2
−2
−1
0
1
2
34
32
30
28
26
24
22
20
18
16
14

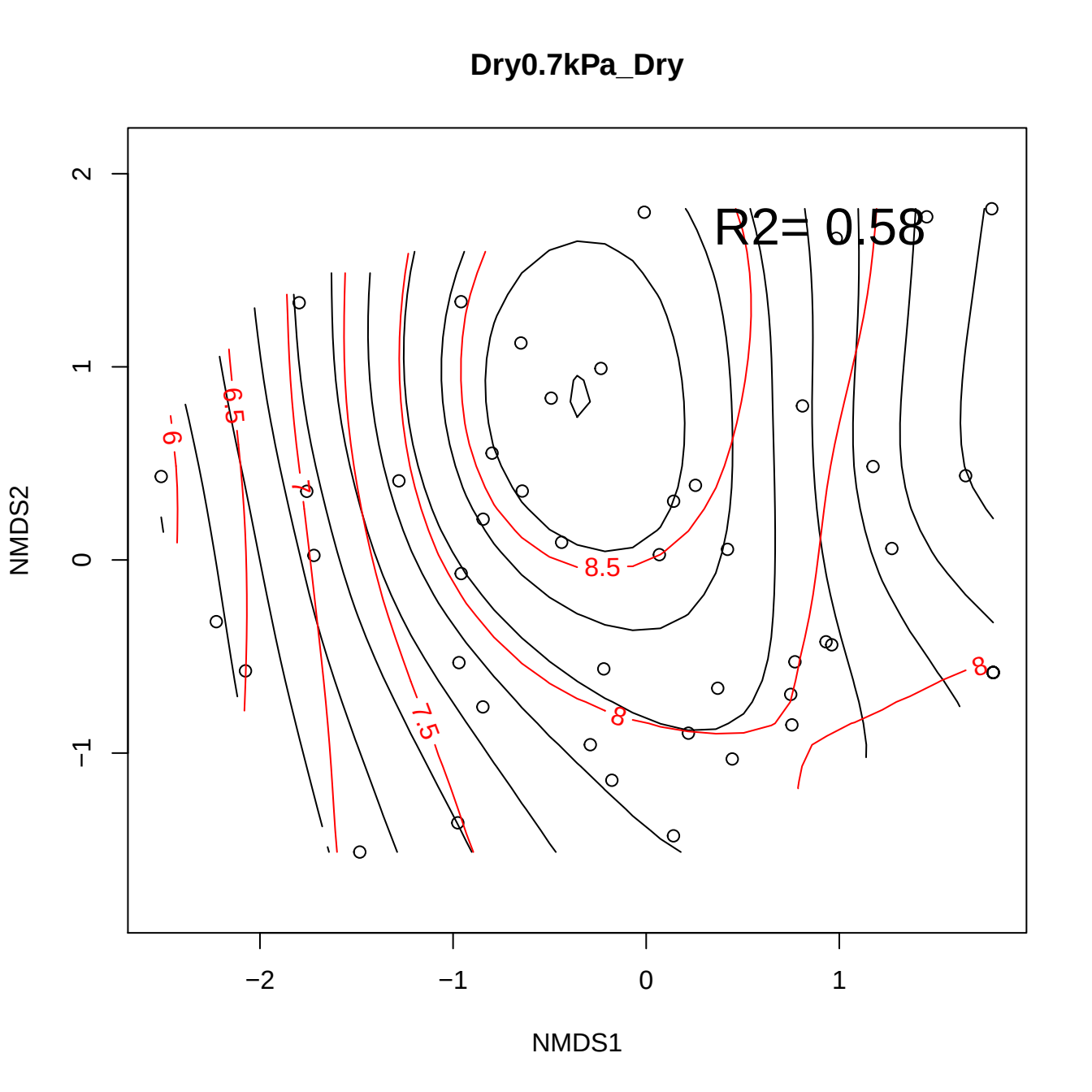

Sat85_Dry
R2= 0.58
NMDS1
NMDS2
−2
−1
0
1
2
0.5
1
1.5
2
2.5
3
3.5

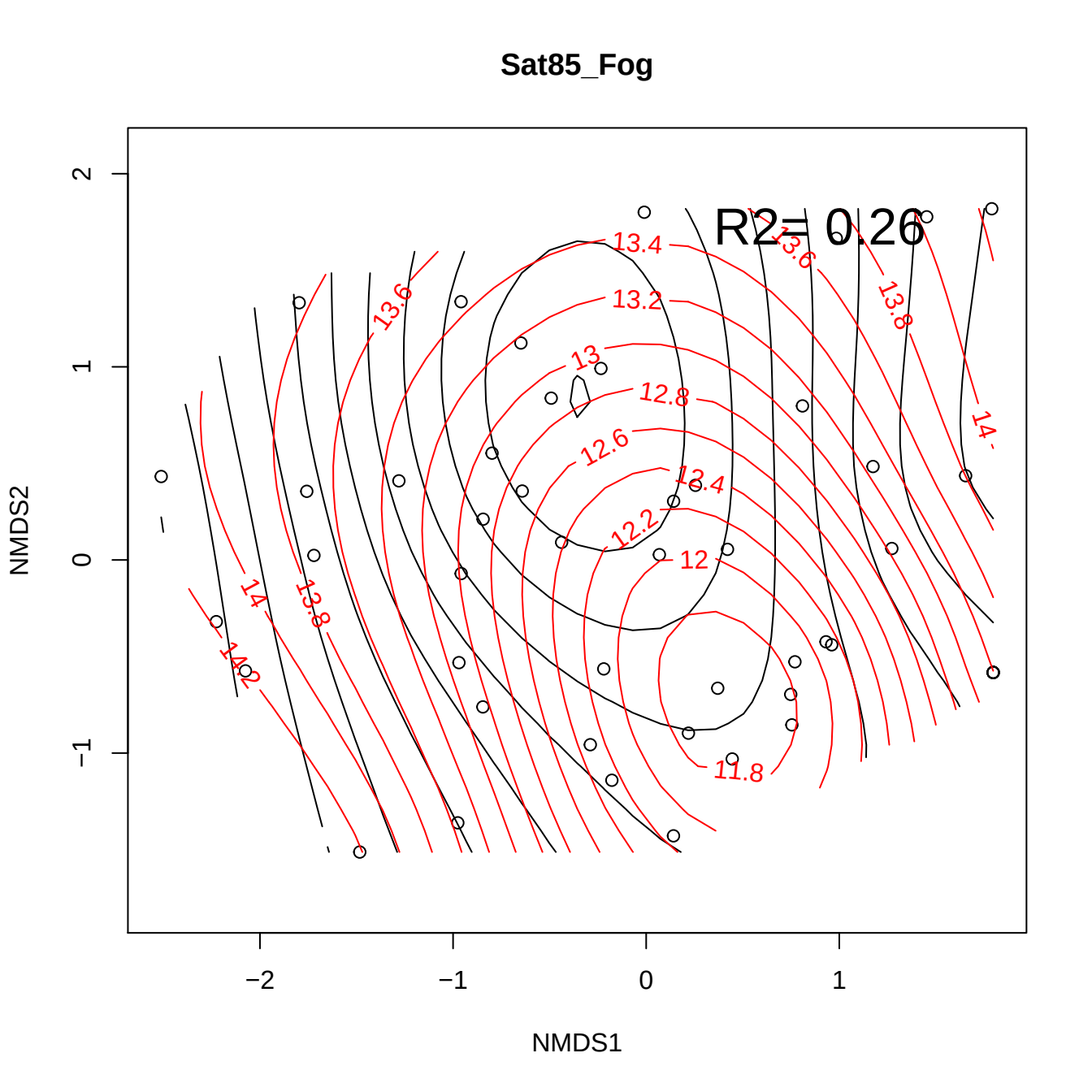

Sat0.1kPa_Dry
R2= 0.48
NMDS1
NMDS2
−2
−1
0
1
2
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35

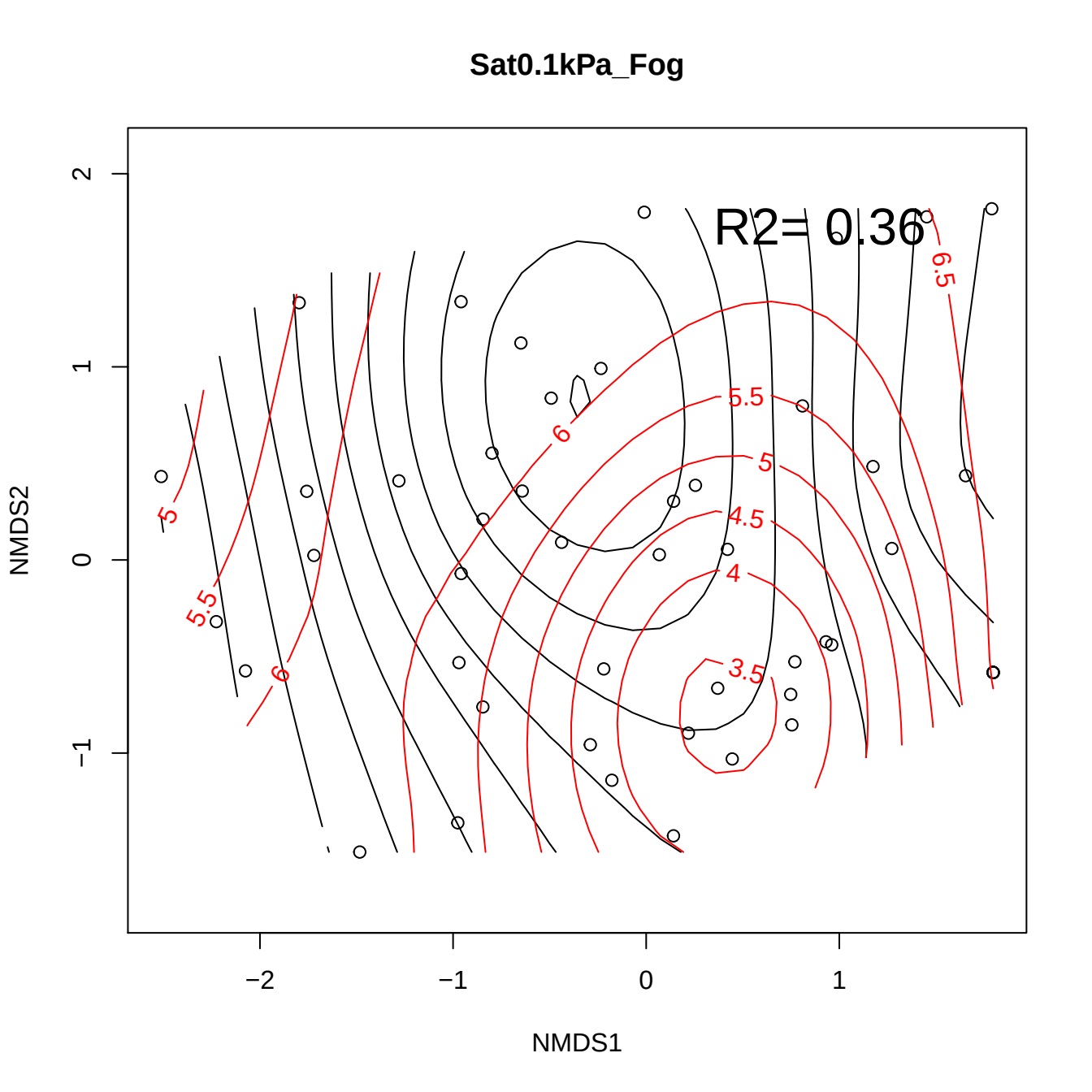

Dry1kPa_Dry
R2= 0.69
NMDS1
NMDS2
−2
−1
0
1
2
9
8.8
8.6
8.4
8.2
8
7.8

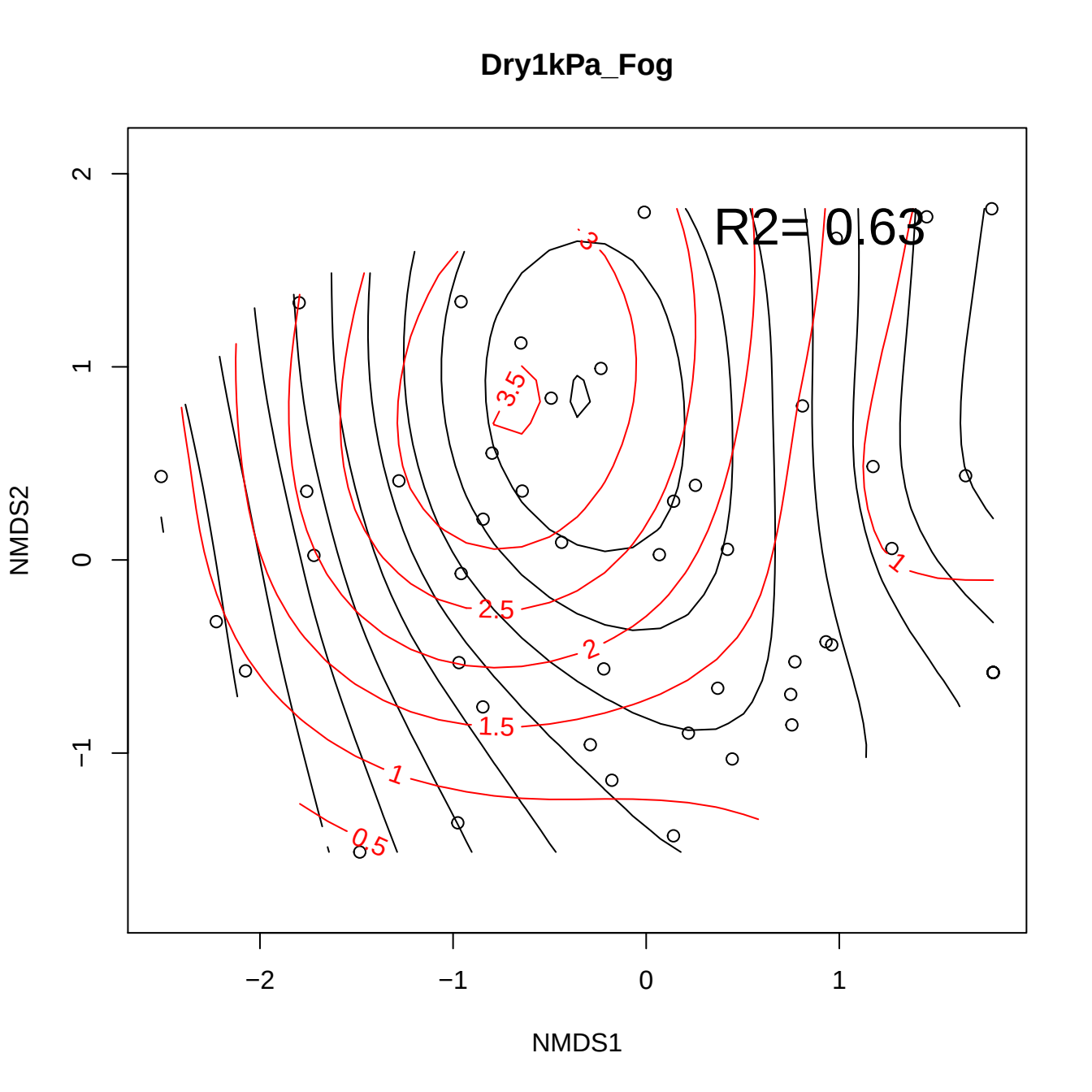

Dry3kPa_Dry
R2= 0.79
NMDS1
NMDS2
−2
−1
0
1
2
4
4.5
3.5
3
2.5
2
1.5
1
1.5

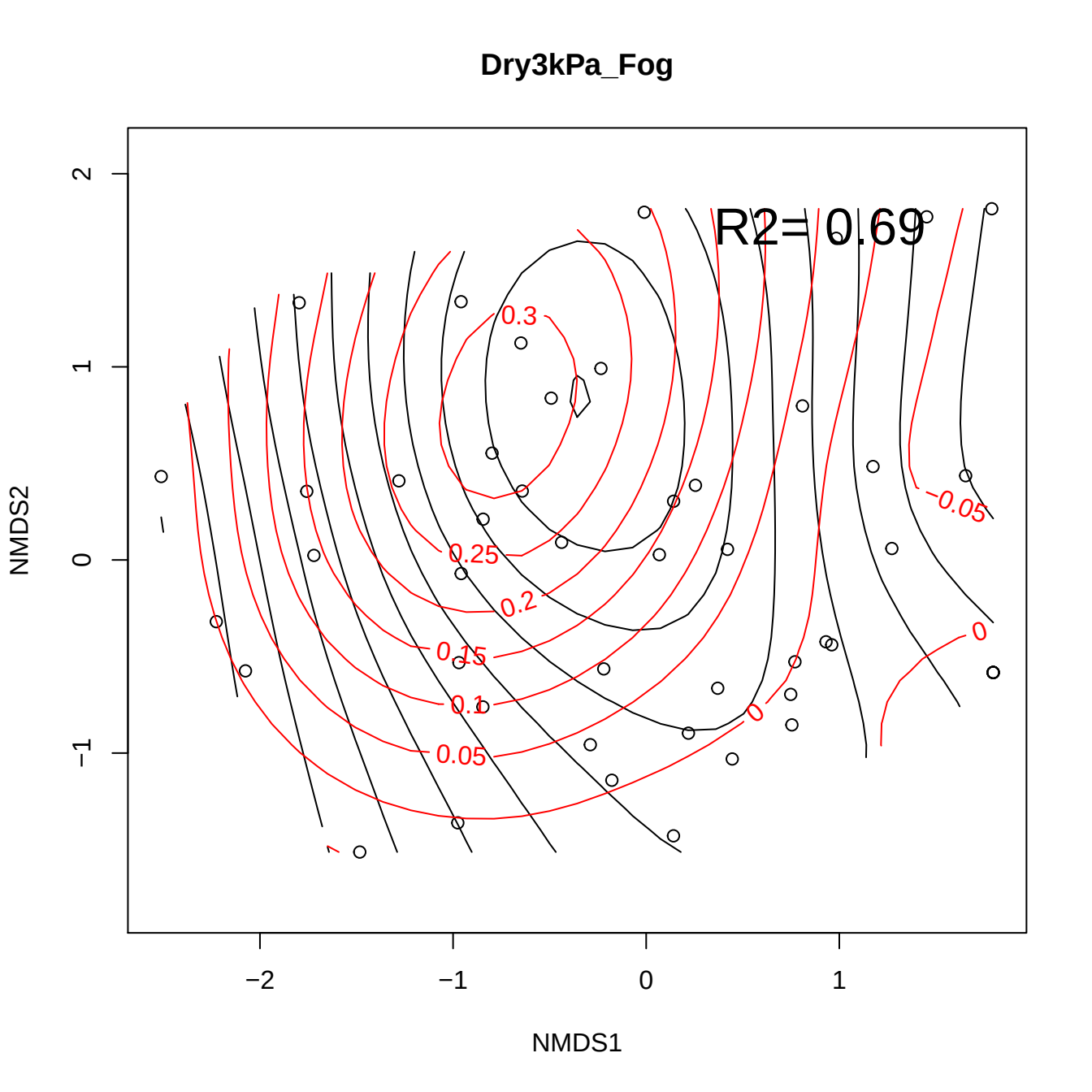

Dry0.3kPa_Dry
R2= 0.59
NMDS1
NMDS2
−2
−1
0
1
2
0
0.5
1
1.5
2
2.5
3
3.5
4

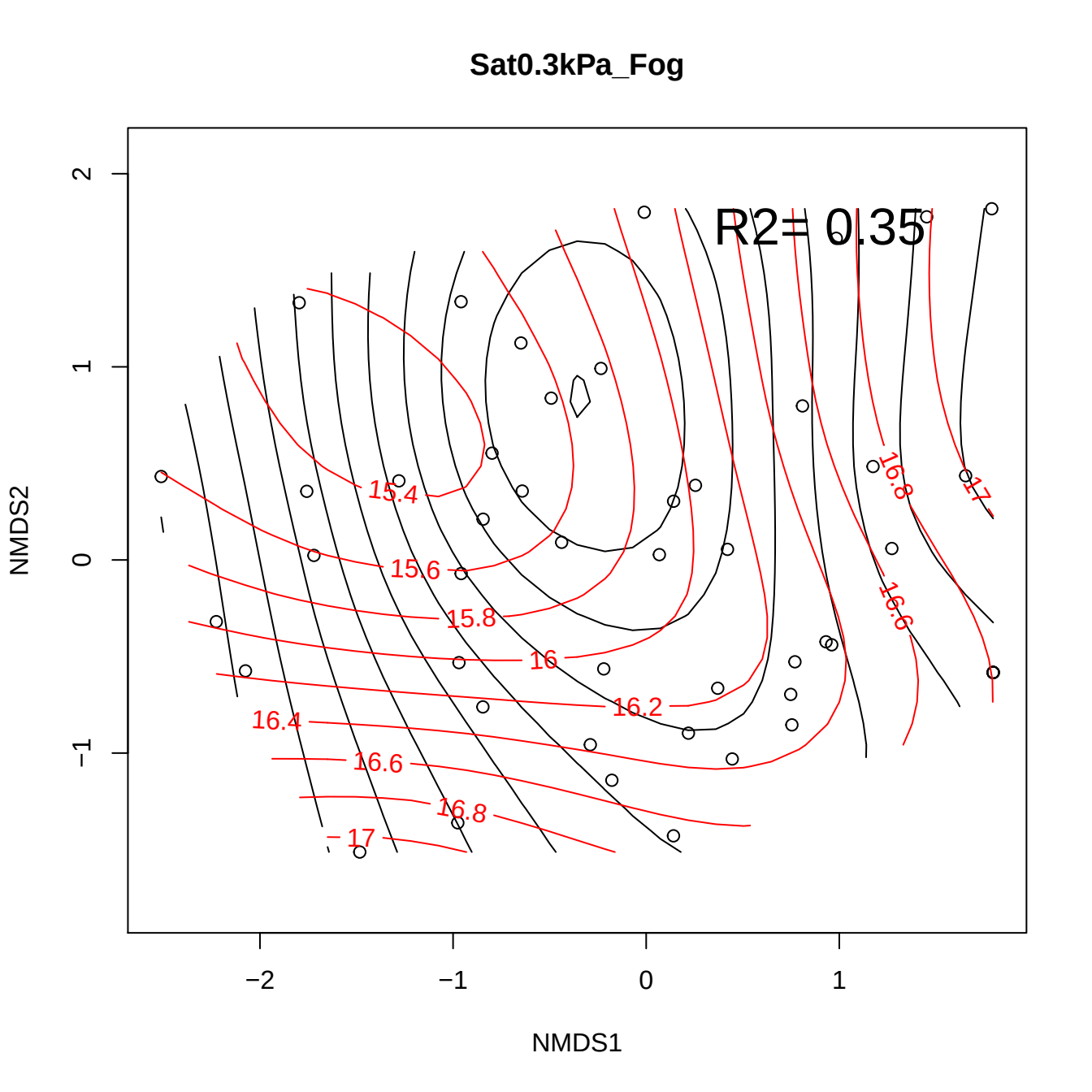

Dry0.7kPa_Dry
R2= 0.58
NMDS1
NMDS2
−2
−1
0
1
2
6
6.5
7
7.5
8
8.5

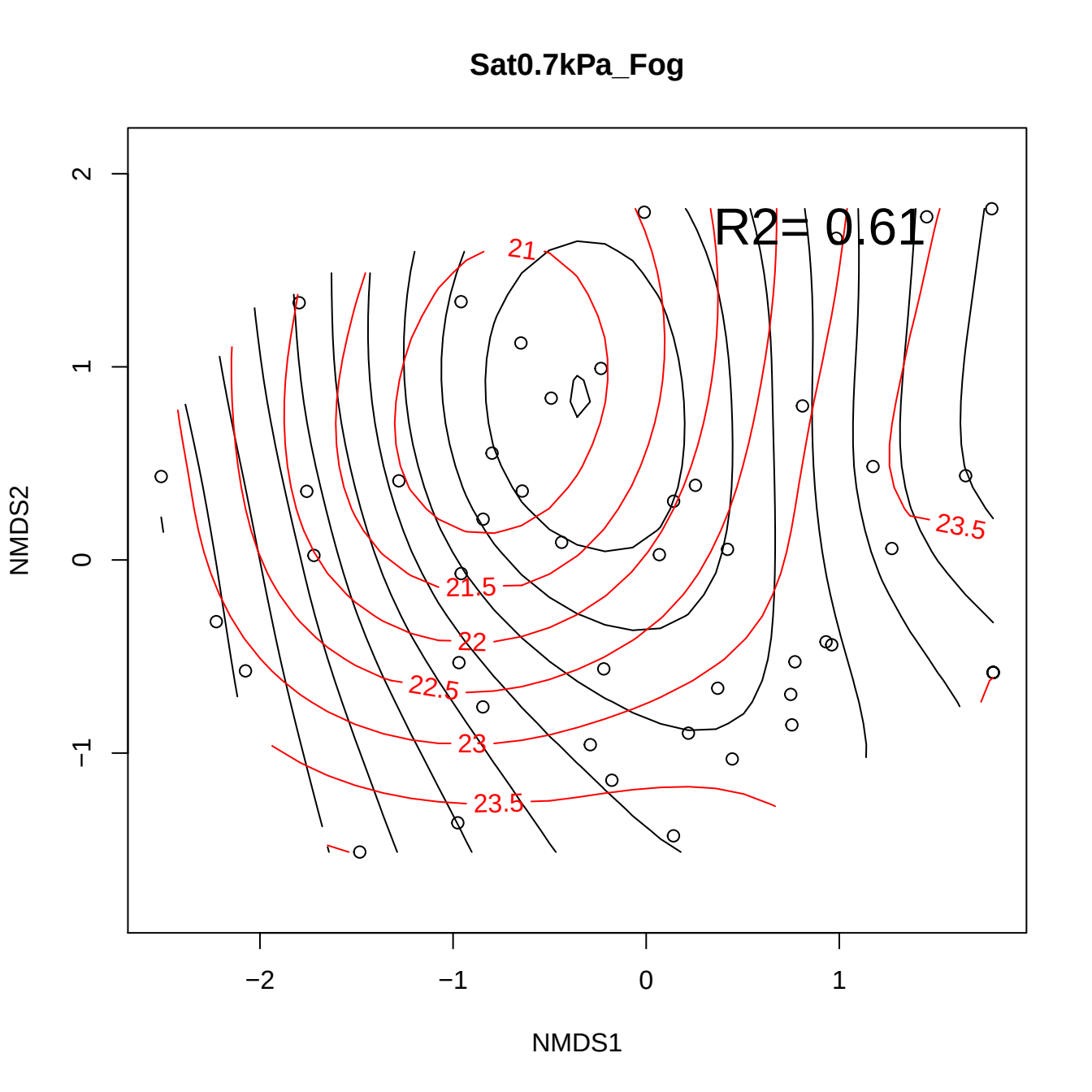

Sat85_Fog
R2= 0.26
NMDS1
NMDS2
−2
−1
0
1
2
13.4
13.2
13
12.8
12.6
12.4
12.2
12
11.8
13.6
13.8
14
14.2

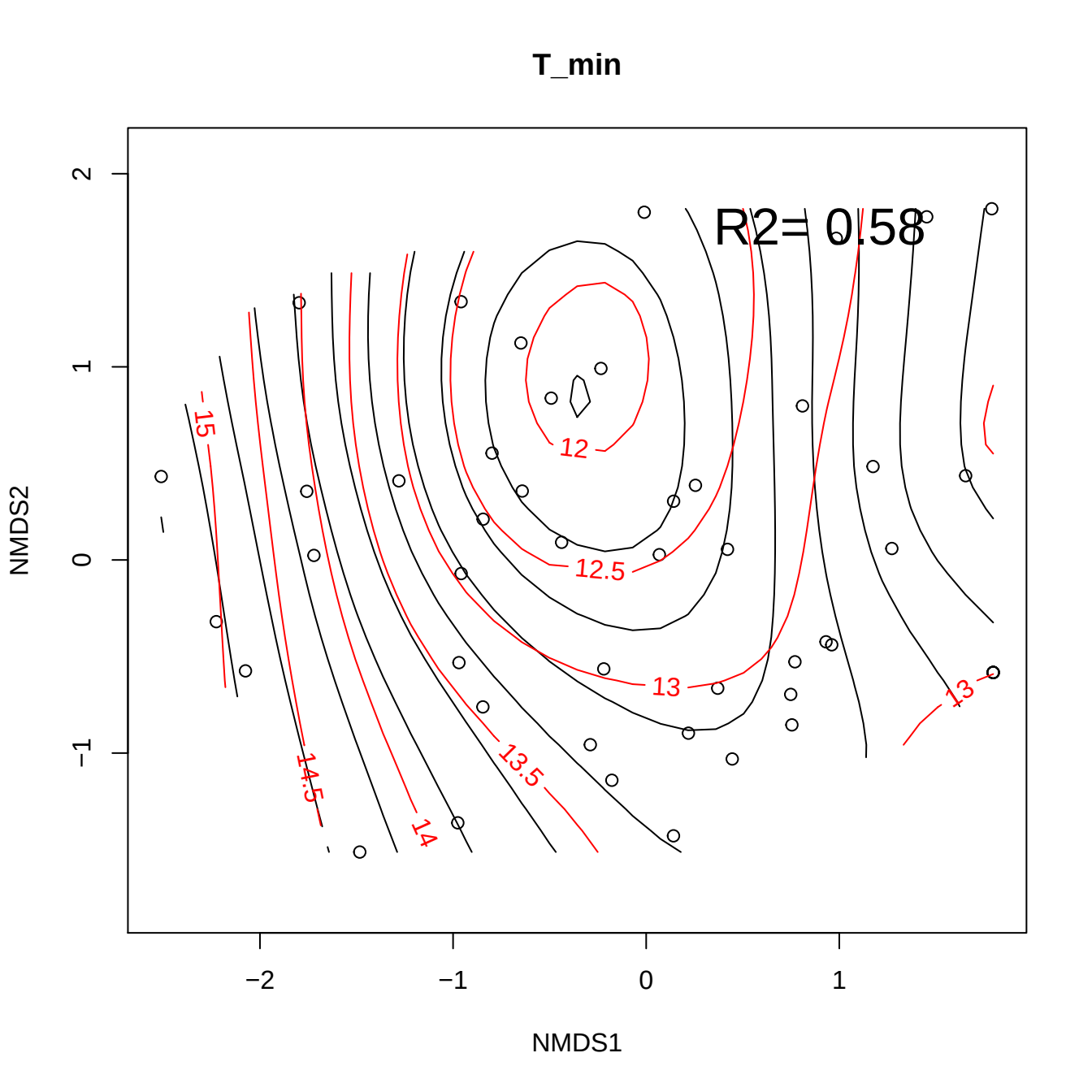

Sat0.1kPa_Fog
R2= 0.36
NMDS1
NMDS2
−2
−1
0
1
2
6.5
5.5
5
4.5
4
3.5
6
5.5
5

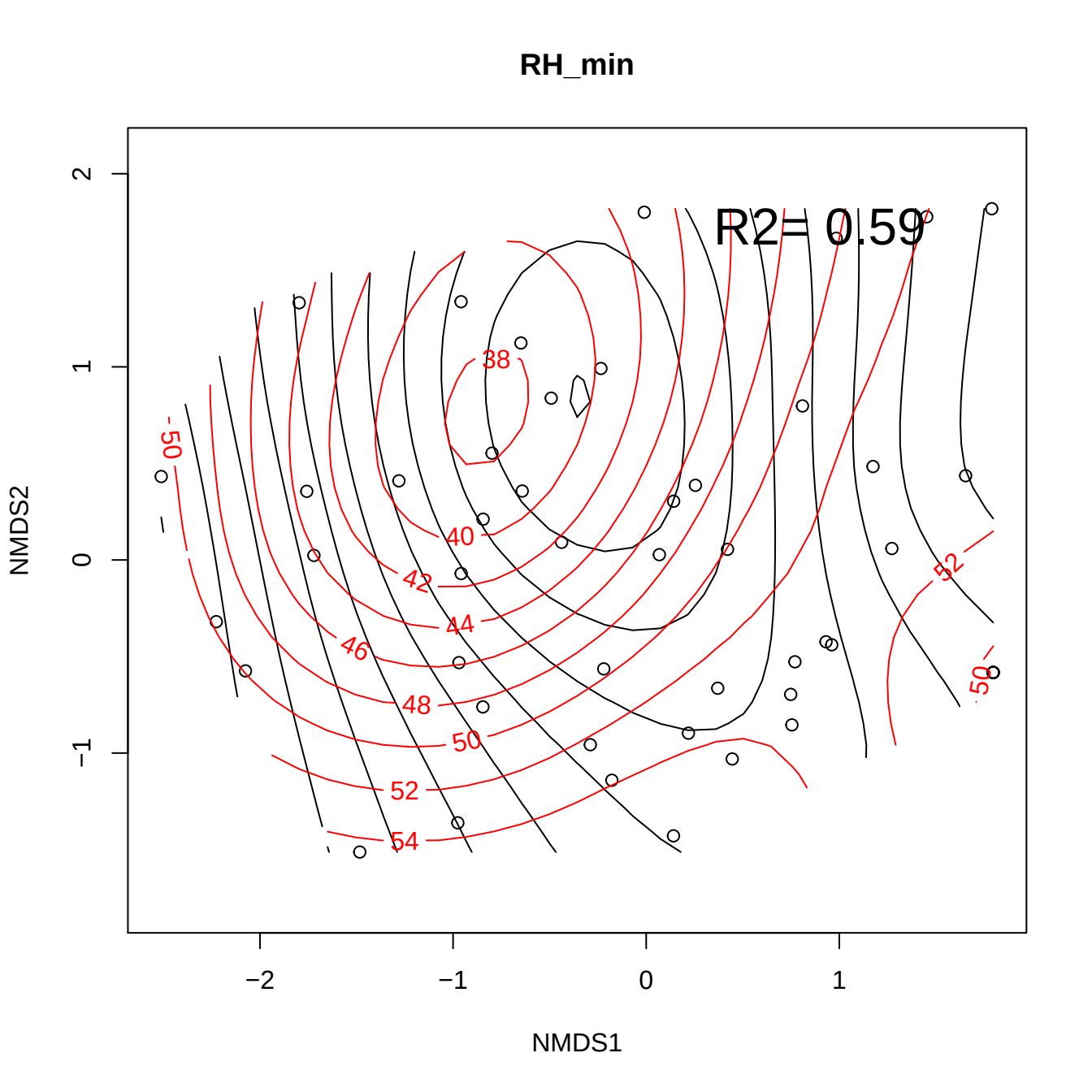

Dry1kPa_Fog
R2= 0.63
NMDS1
NMDS2
−2
−1
0
1
2
3.5
3
2.5
2
1.5
1
0.5

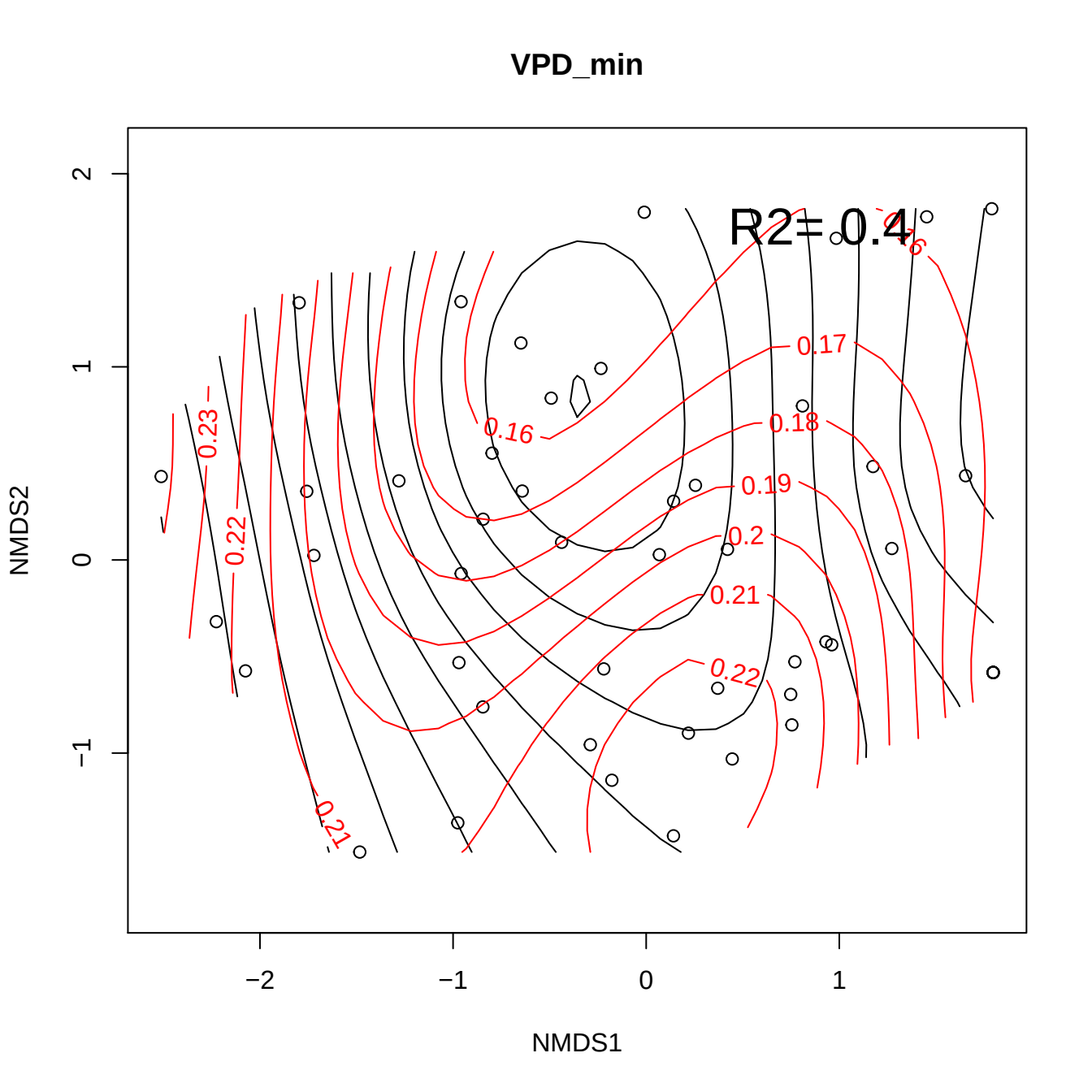

Dry3kPa_Fog
R2= 0.69
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
NMDS1
NMDS2
−2
−1
0
1
2

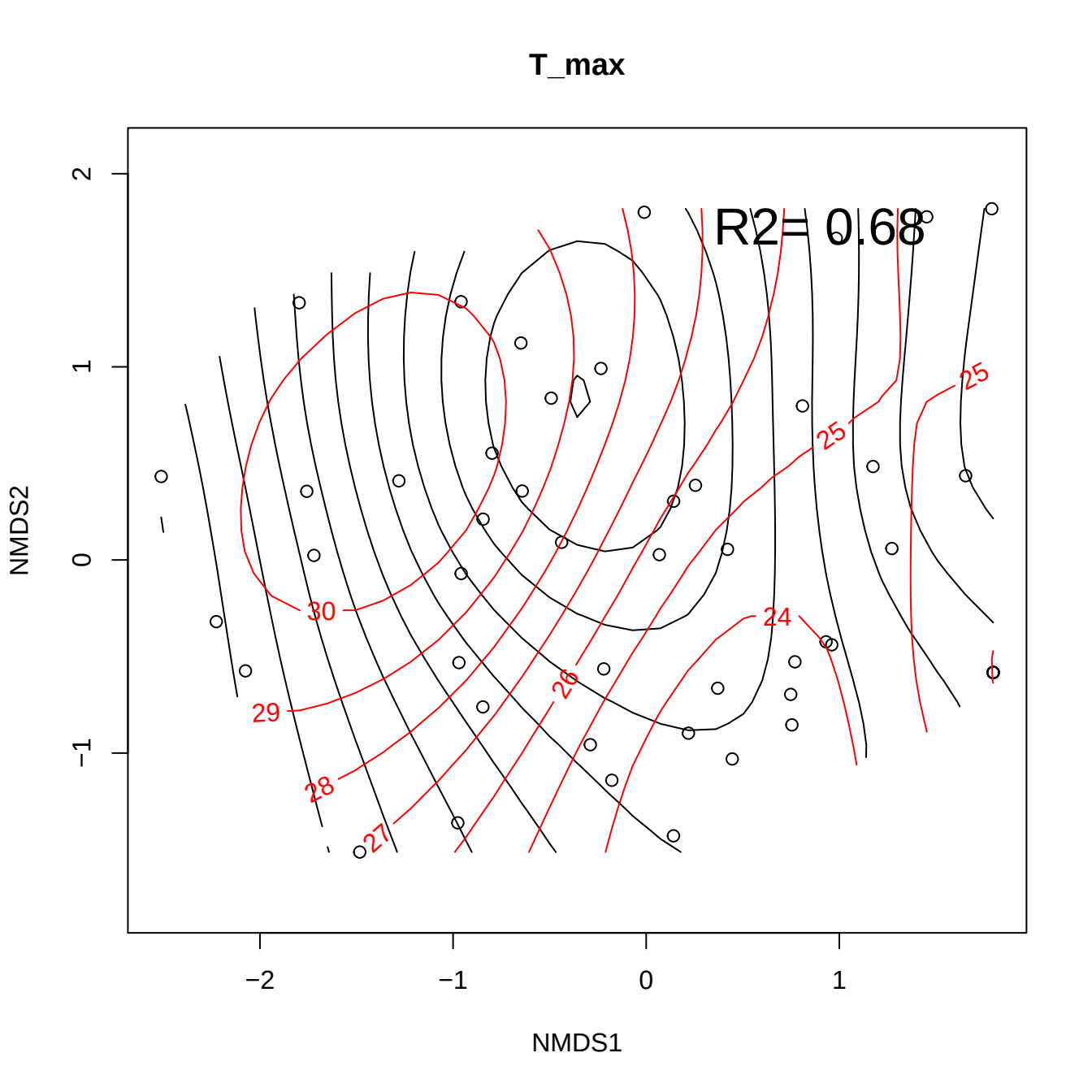

Sat0.3kPa_Fog
R2= 0.35
15.4
15.6
15.8
16
16.2
16.4
16.6
16.8
17
NMDS1
NMDS2
−2
−1
0
1
2

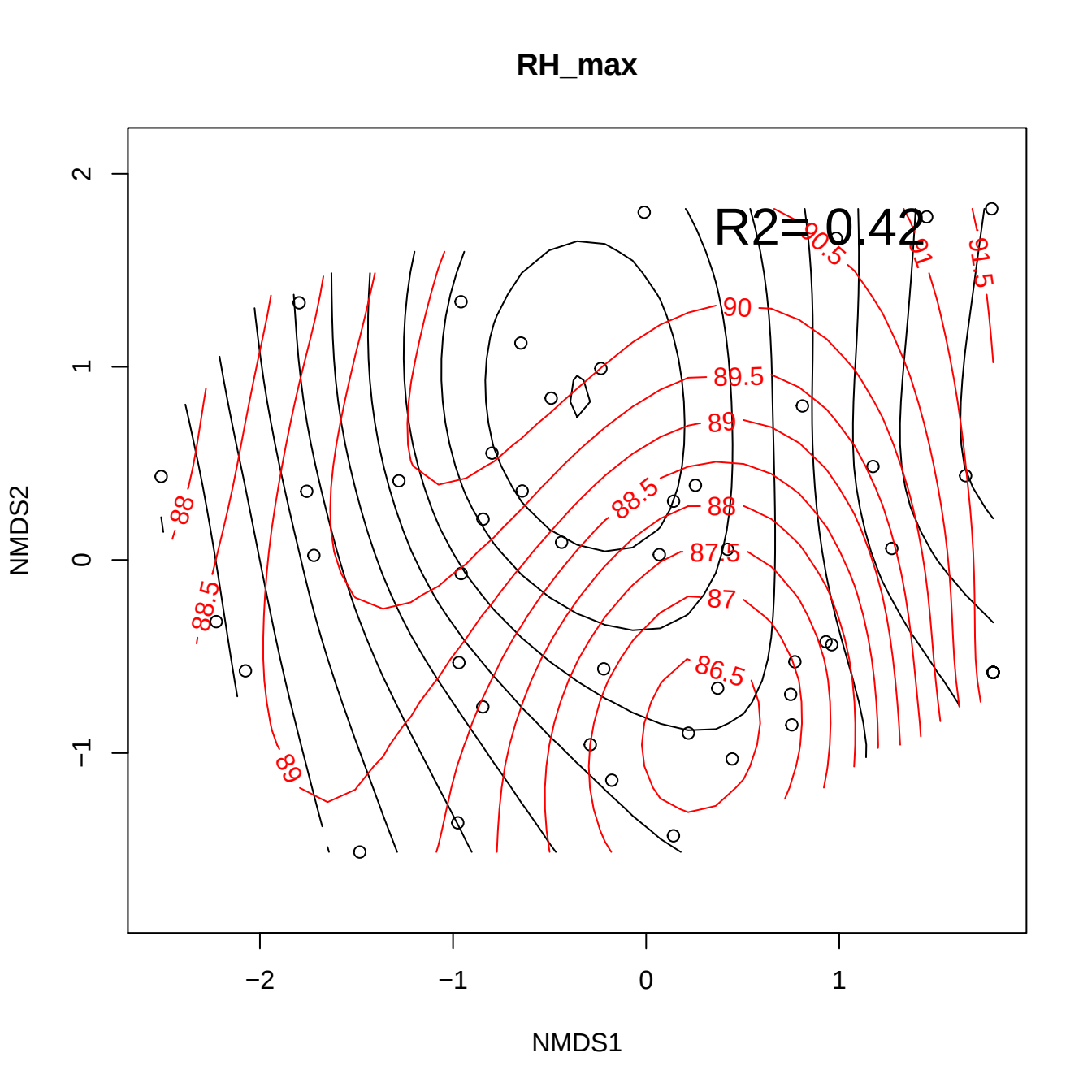

Sat0.7kPa_Fog
R2= 0.61
21
21.5
22
22.5
23
23.5
23.5
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

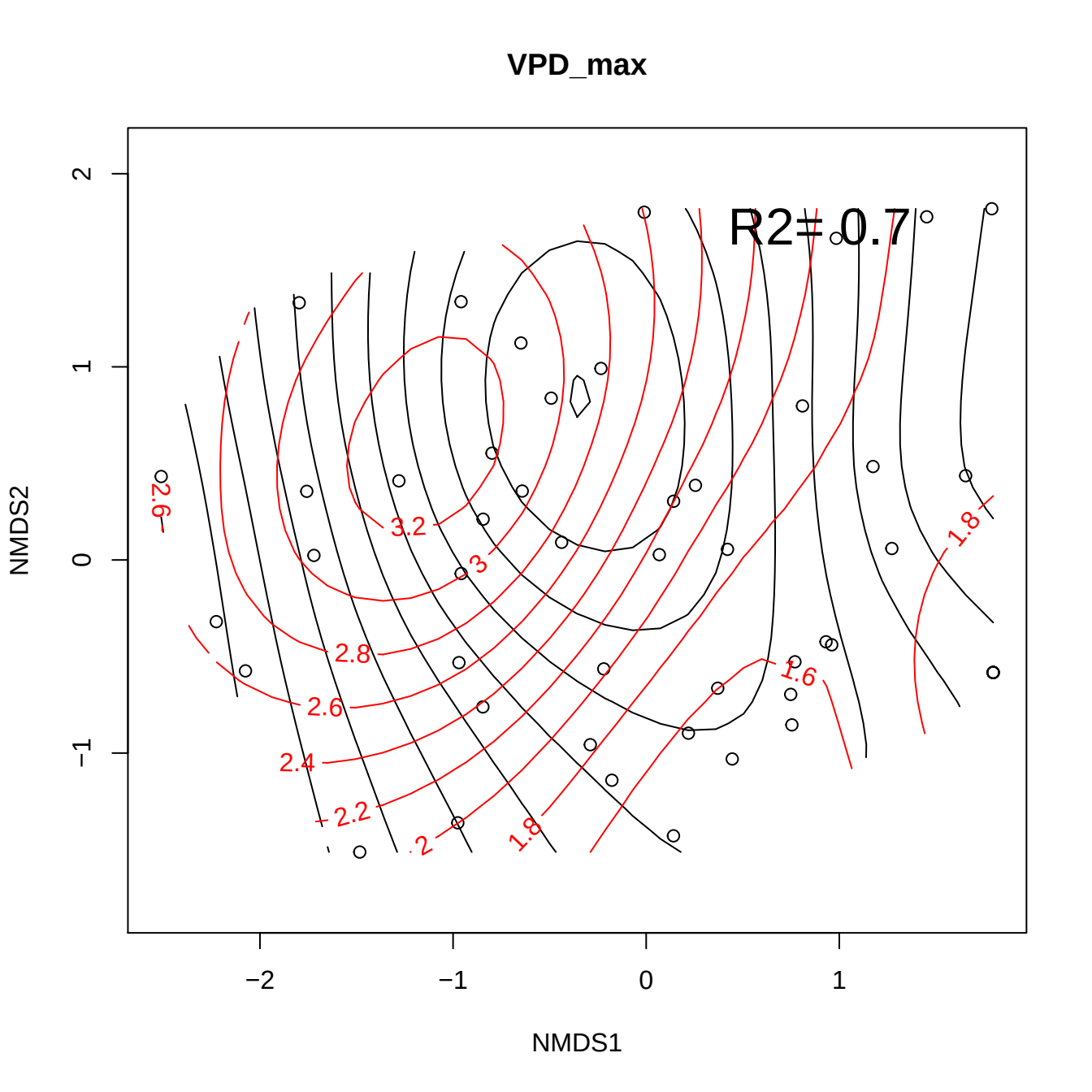

T_min
R2= 0.58
NMDS1
NMDS2
−2
−1
0
1
2
15
12
12.5
13
13
13.5
14
14.5

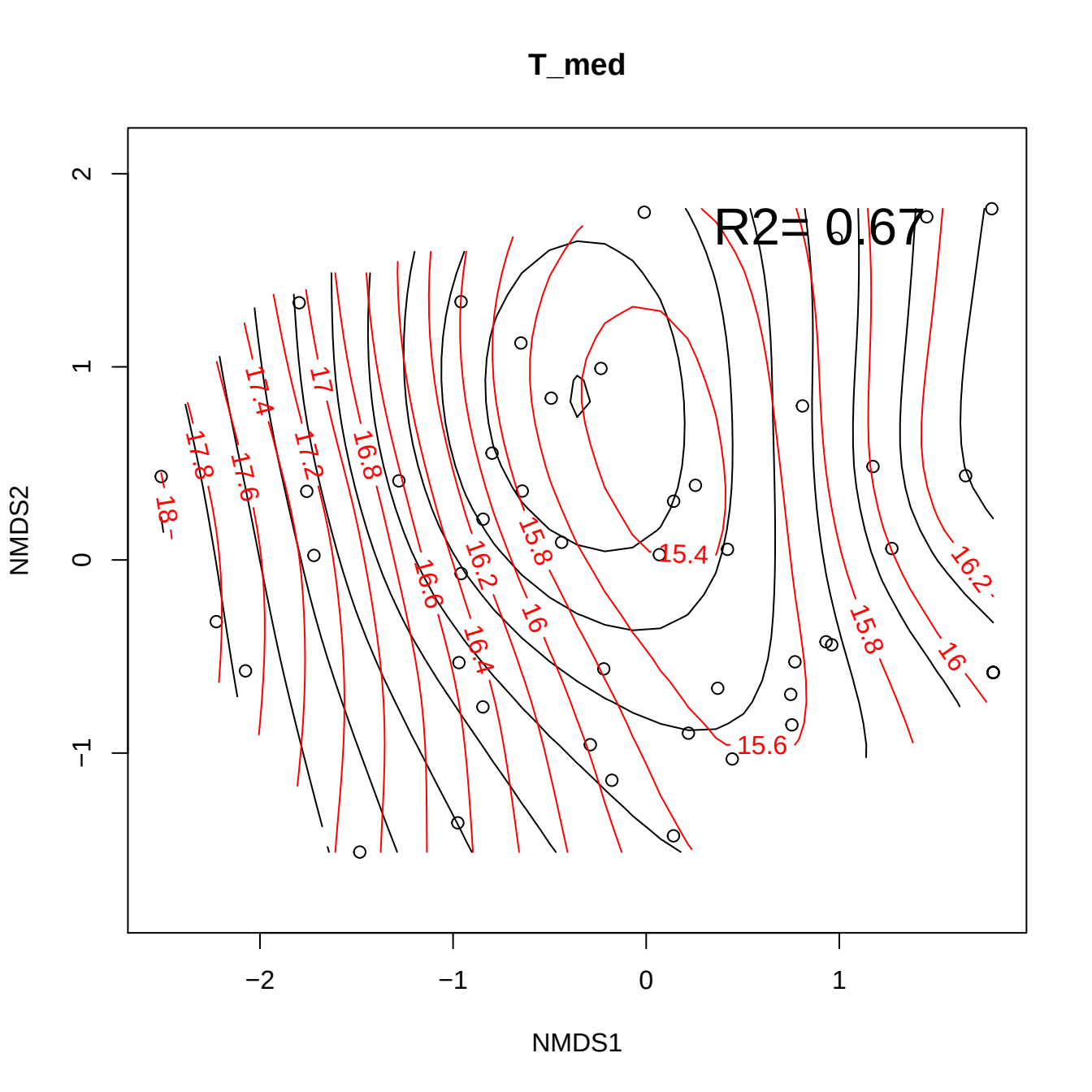

RH_min
R2= 0.59
38
40
42
44
46
48
50
52
54
NMDS1
NMDS2
−2
−1
0
1
2

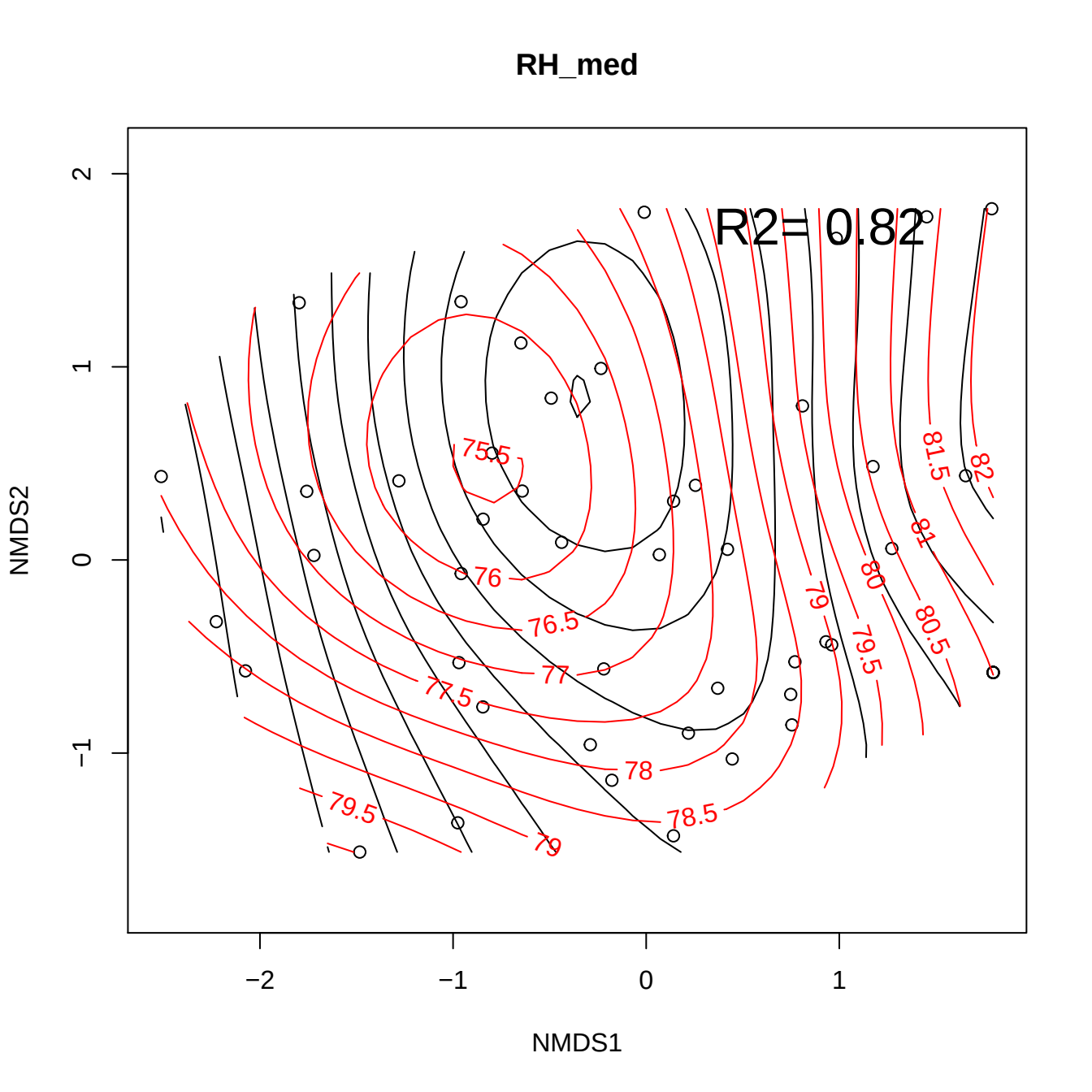

VPD_min
R2= 0.4
0.16
0.17
0.18
0.19
0.2
0.21
0.22
0.23
NMDS1
NMDS2
−2
−1
0
1
2

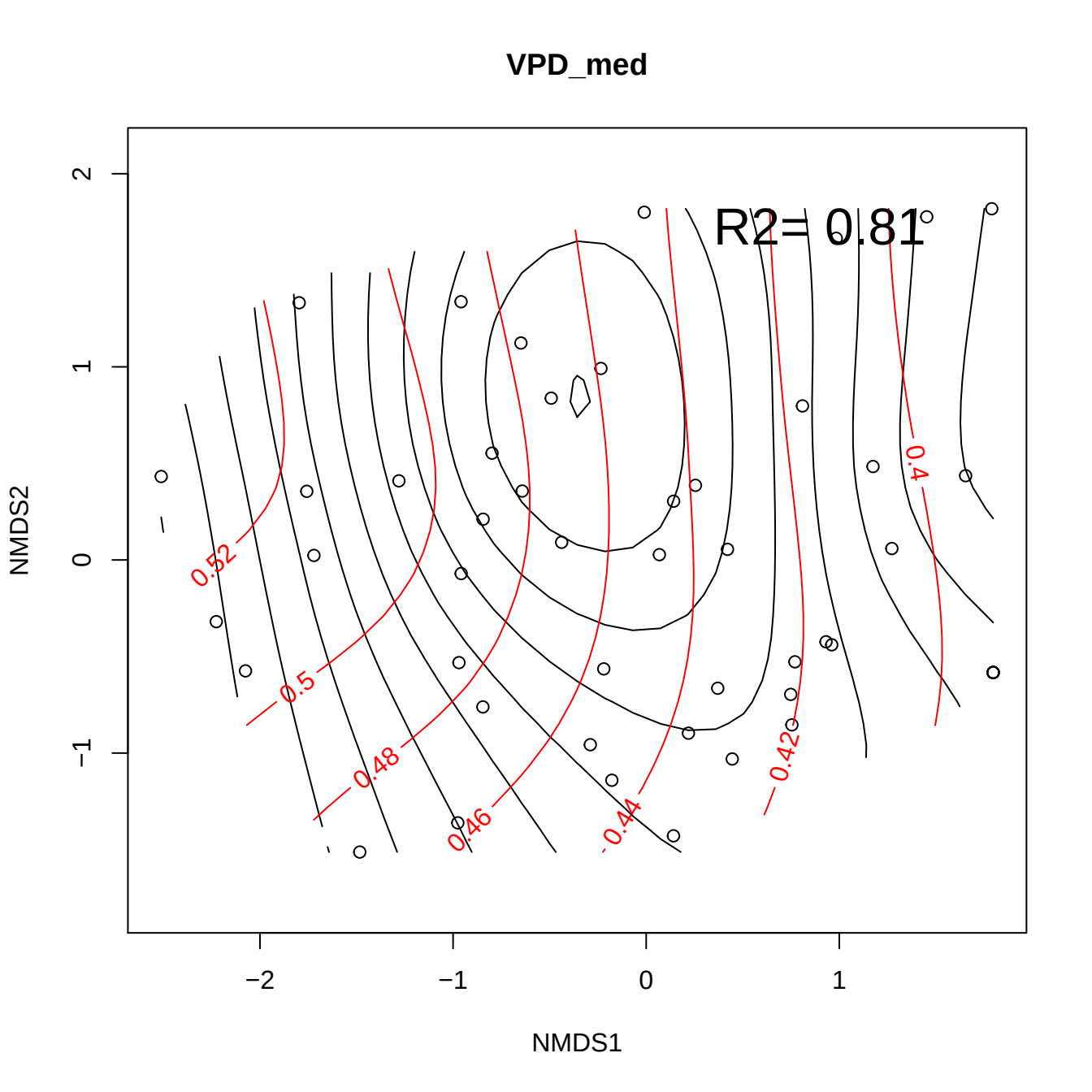

T_max
R2= 0.68
NMDS1
NMDS2
−2
−1
0
1
2
30
29
28
27
26
25
25
24

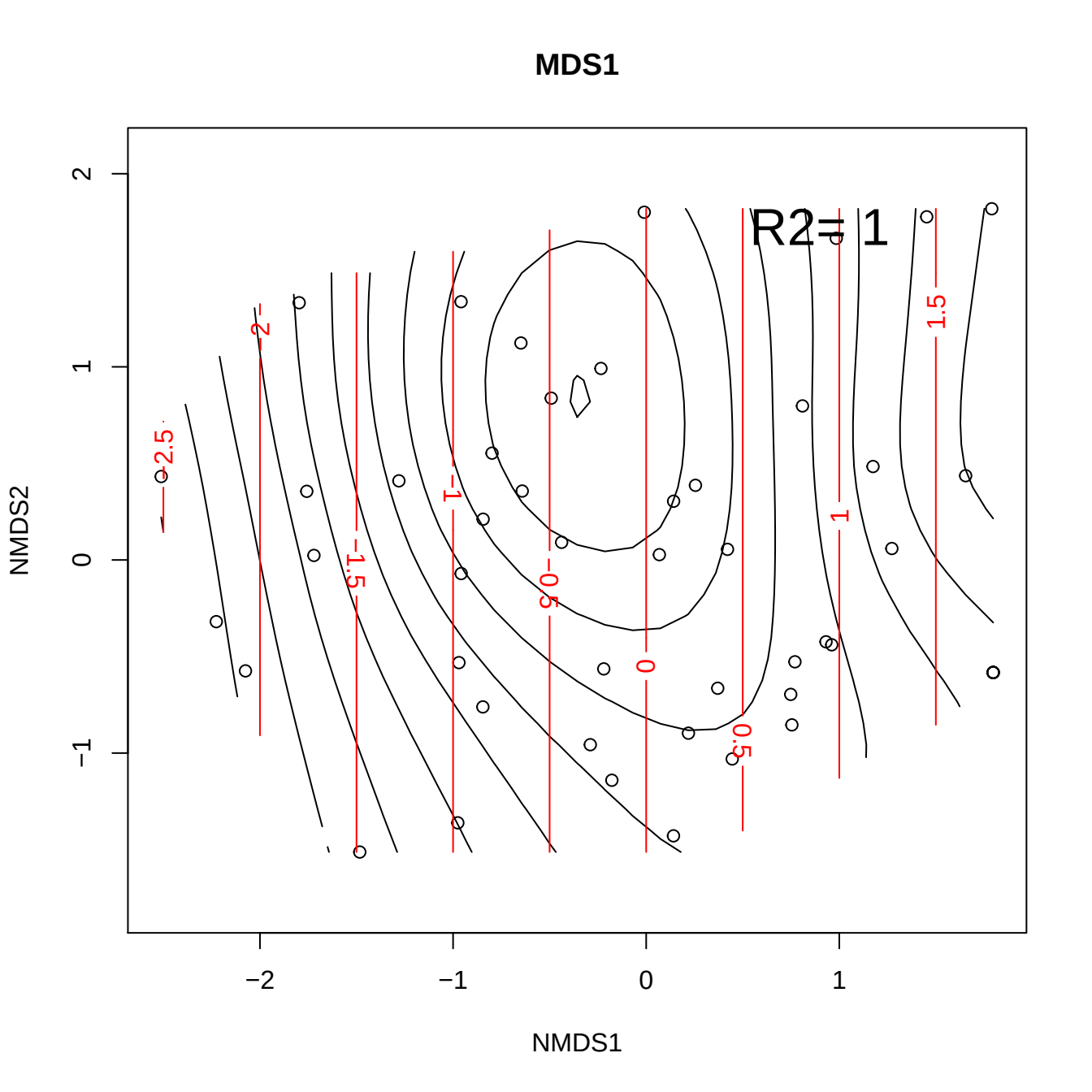

RH_max
R2= 0.42
NMDS1
NMDS2
−2
−1
0
1
2
90
89.5
89
88.5
88
87.5
87
86.5
91
91.5
90.5
89
88.5
88

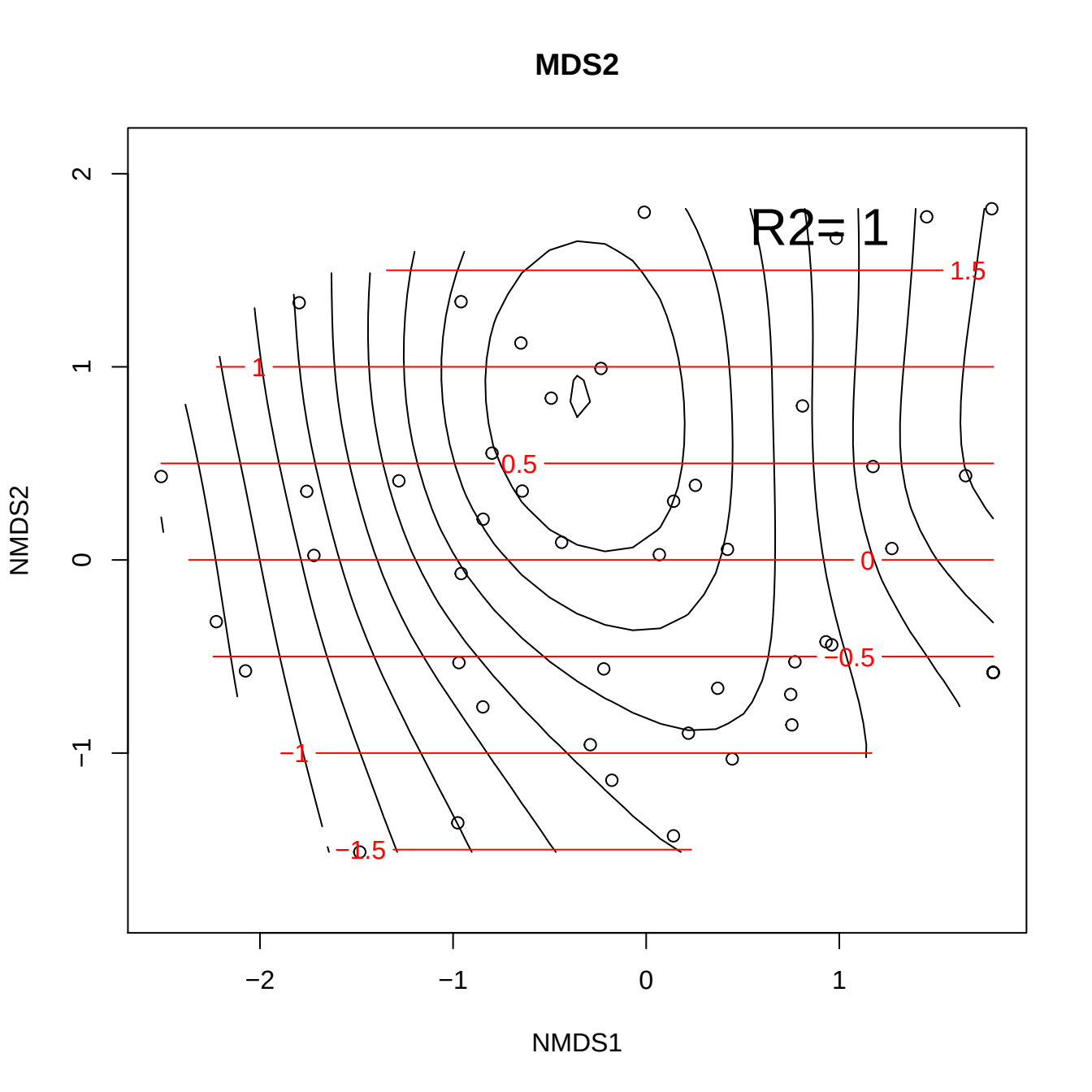

VPD_max
R2=0.7
NMDS1
NMDS2
−2
−1
0
1
2
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.8

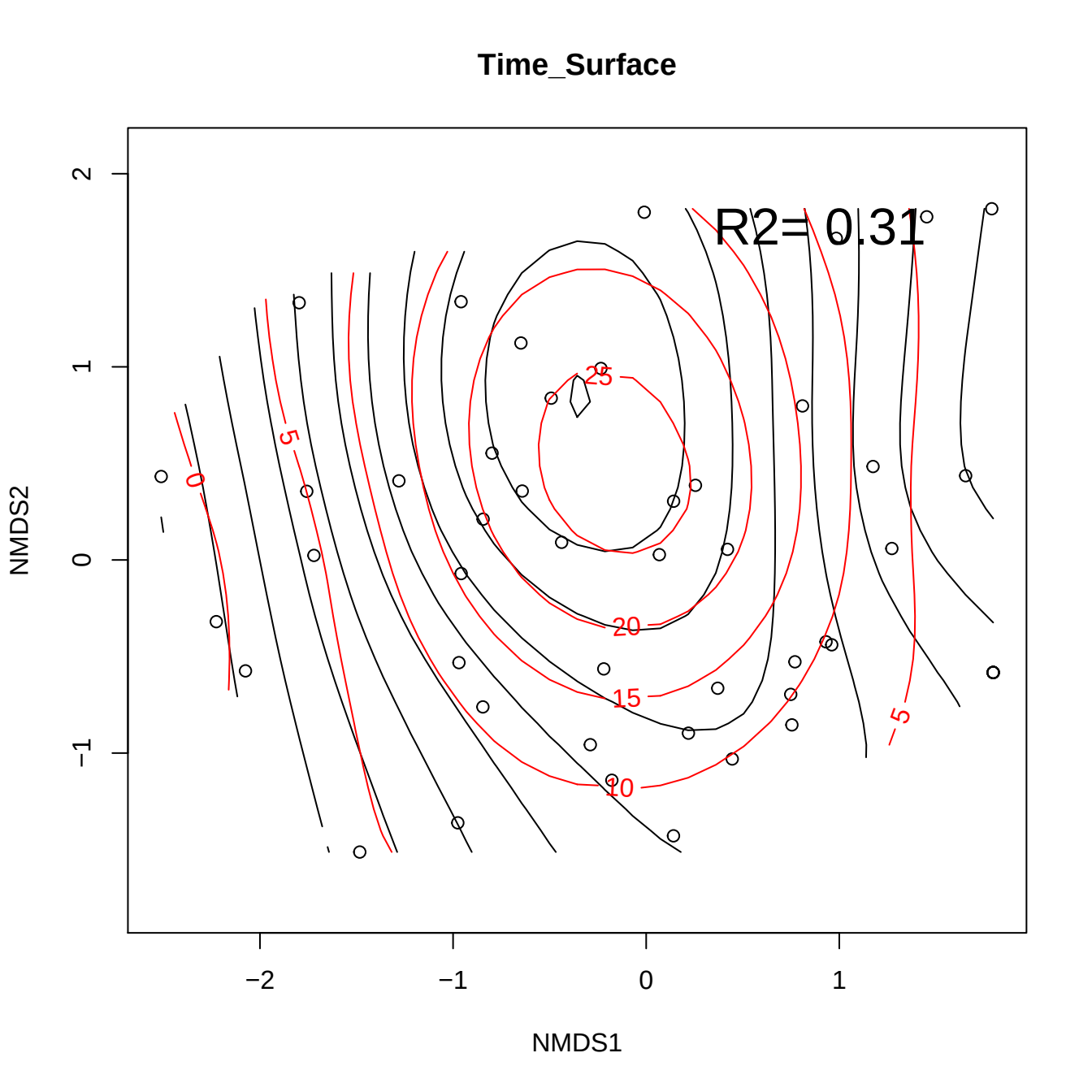

T_med
R2= 0.67
NMDS1
NMDS2
−2
−1
0
1
2
18
17.8
17.6
17.4
17.2
17
16.8
16.6
16.4
16.2
16
15.8
15.6
15.4

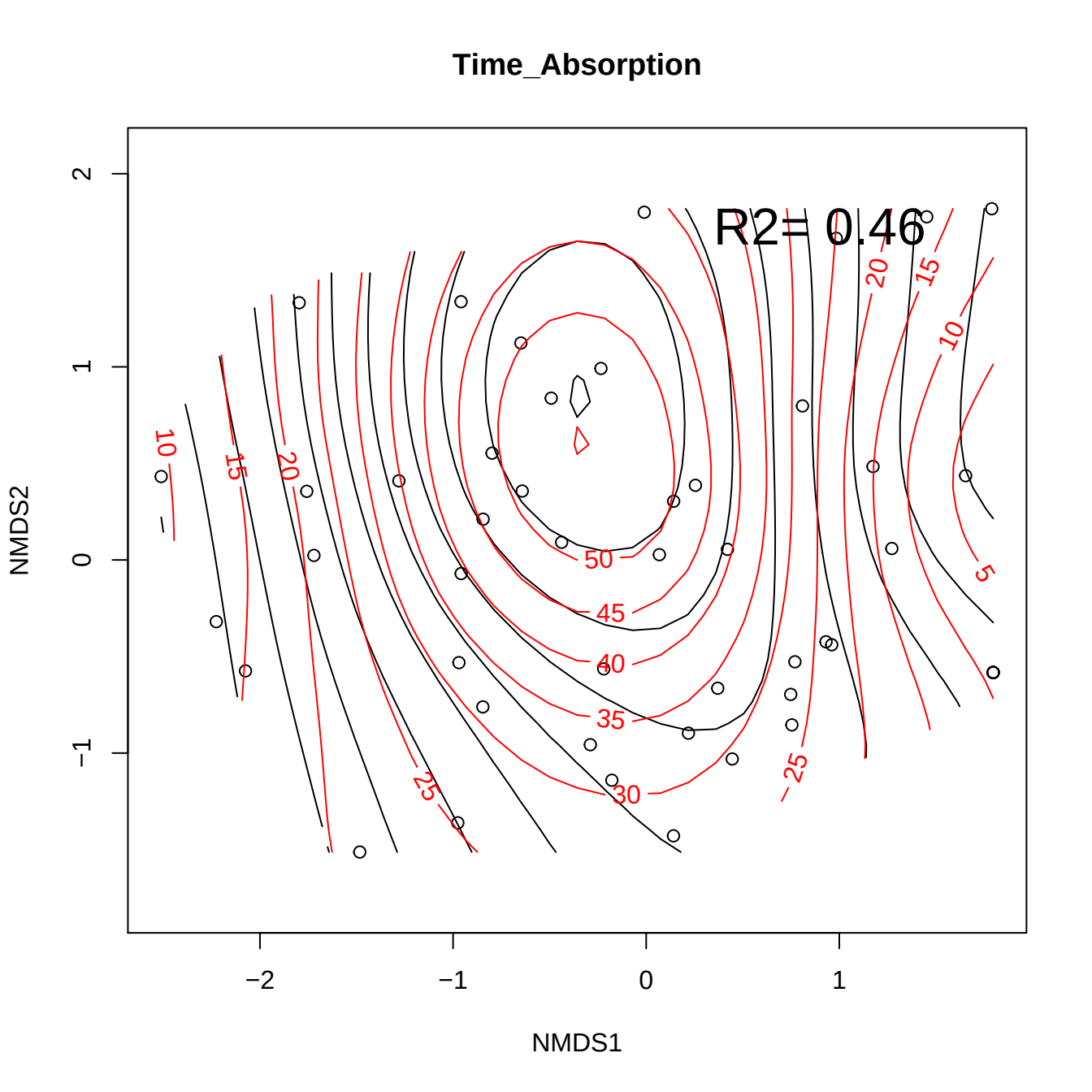

RH_med
R2= 0.82
NMDS1
NMDS2
−2
−1
0
1
2
75.5
76
76.5
77
77.5
78
78.5
79
79.5
80
80.5
81
81.5
82

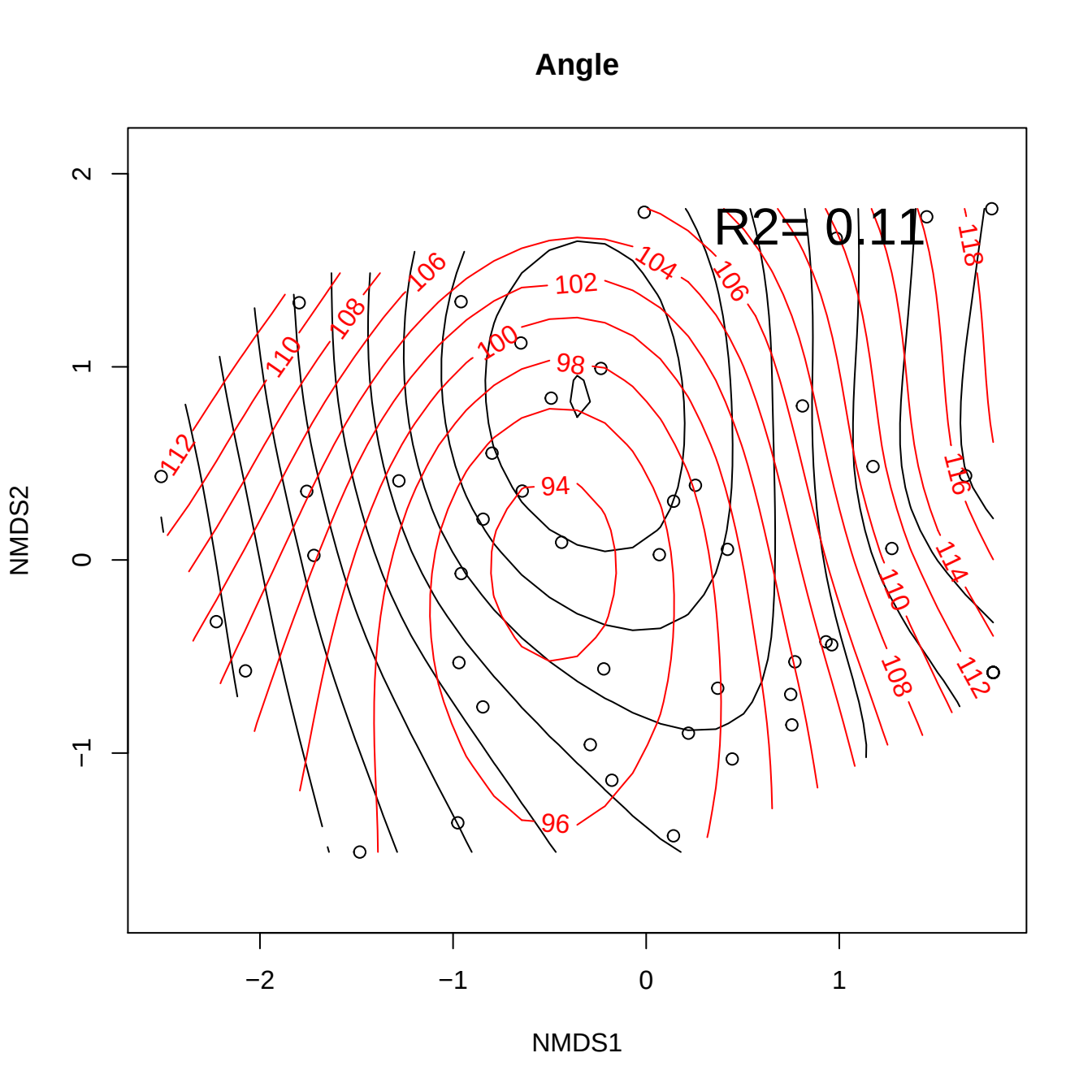

VPD_med
R2= 0.81
NMDS1
NMDS2
−2
−1
0
1
2
0.52
0.5
0.48
0.46
0.44
0.42
0.4

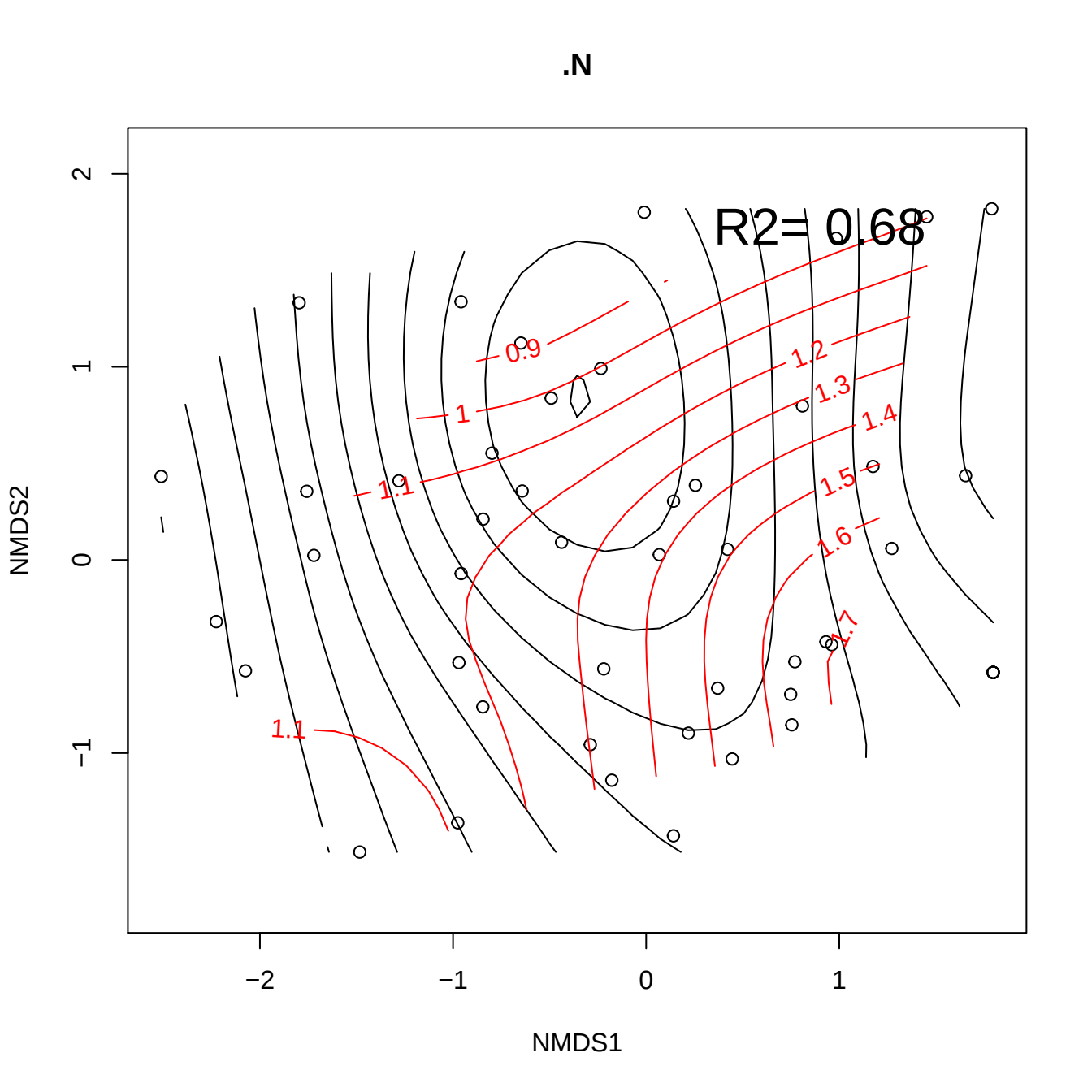

MDS1
R2= 1
NMDS1
NMDS2
−2
−1
0
1
2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

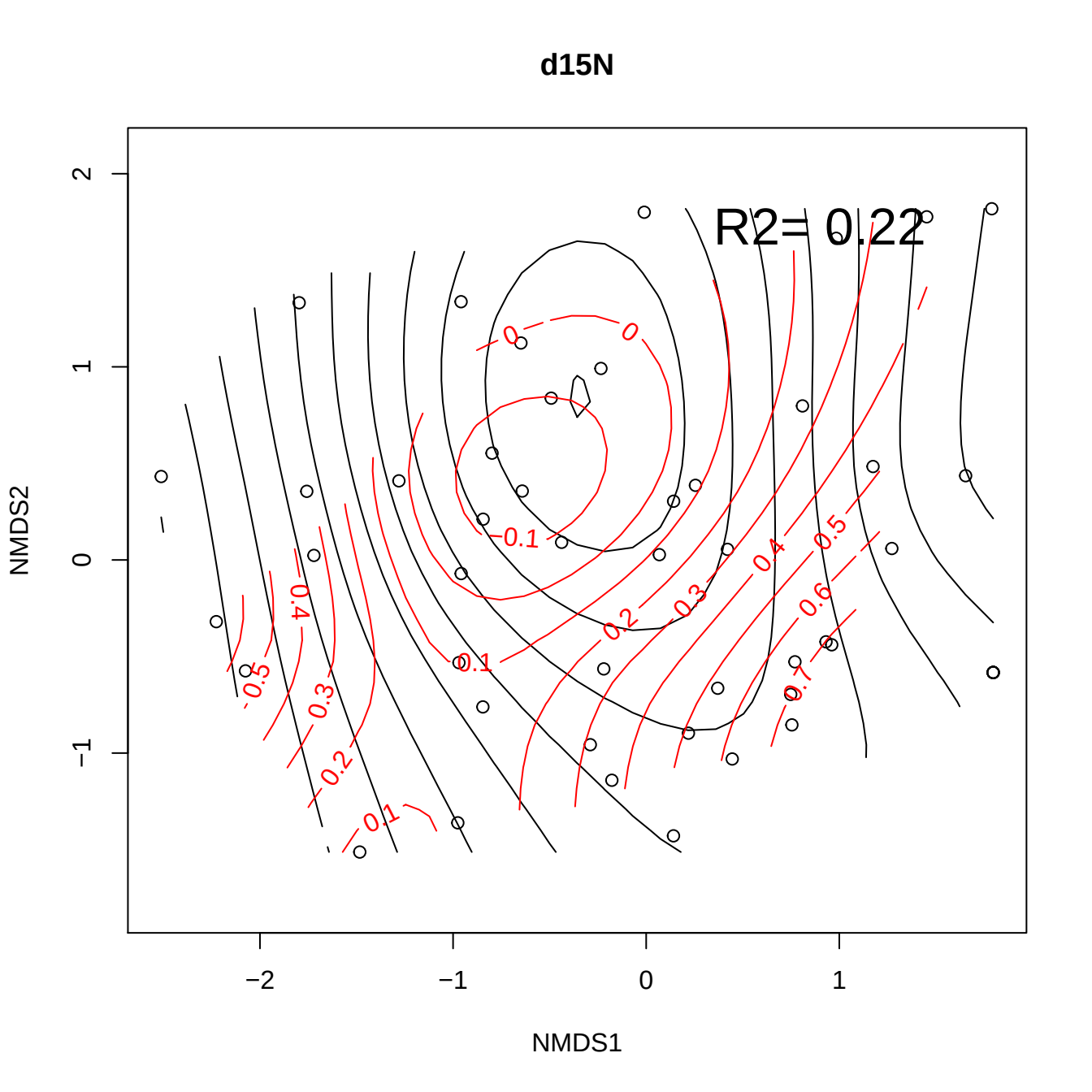

MDS2
R2= 1
1.5
1
0.5
0
−0.5
−1
−1.5
NMDS2
NMDS1
2
1
0
−1
−2
−1
0
1

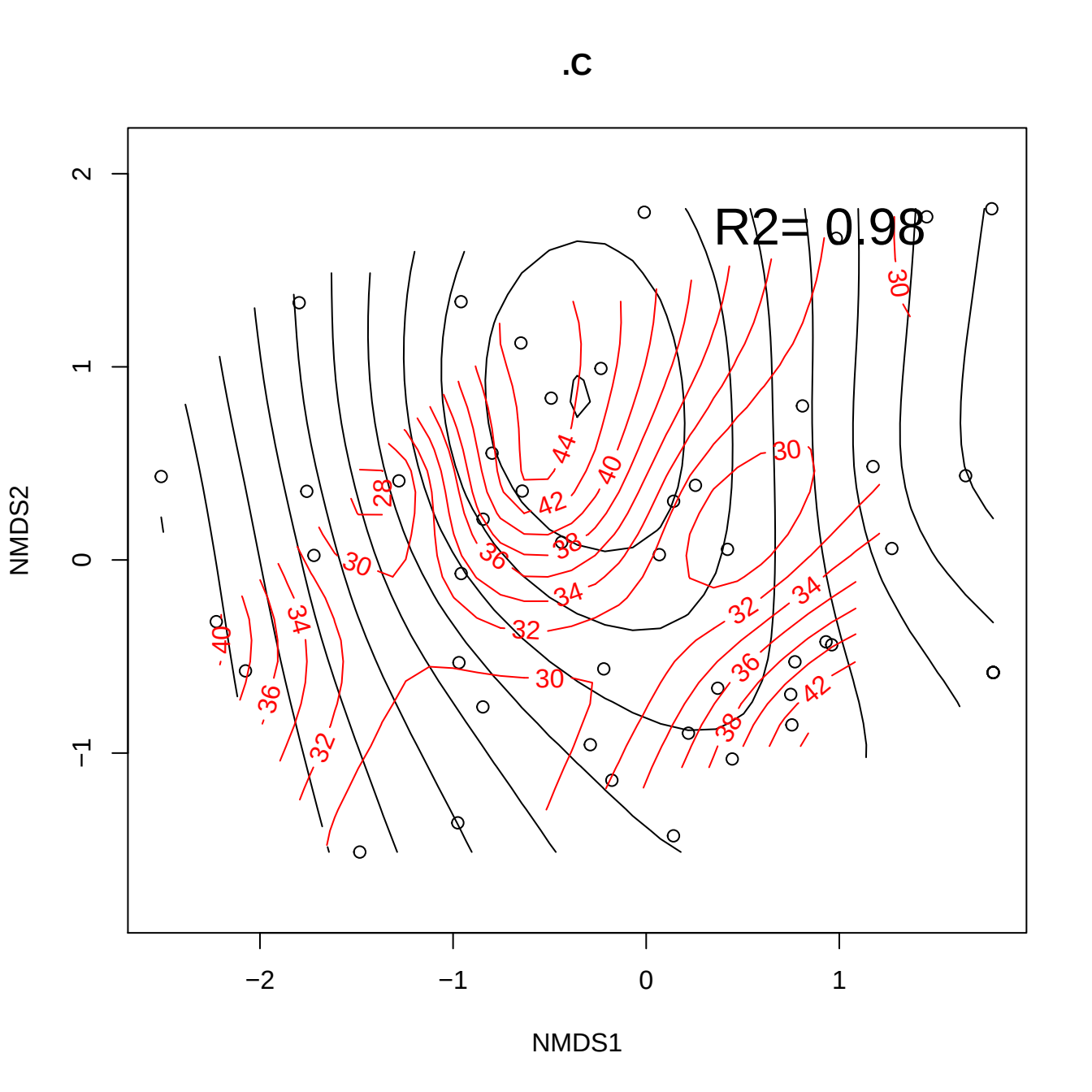

Time_Surface
R2= 0.31
NMDS1
NMDS2
−2
−1
0
1
2
25
20
15
10
5
0
−5

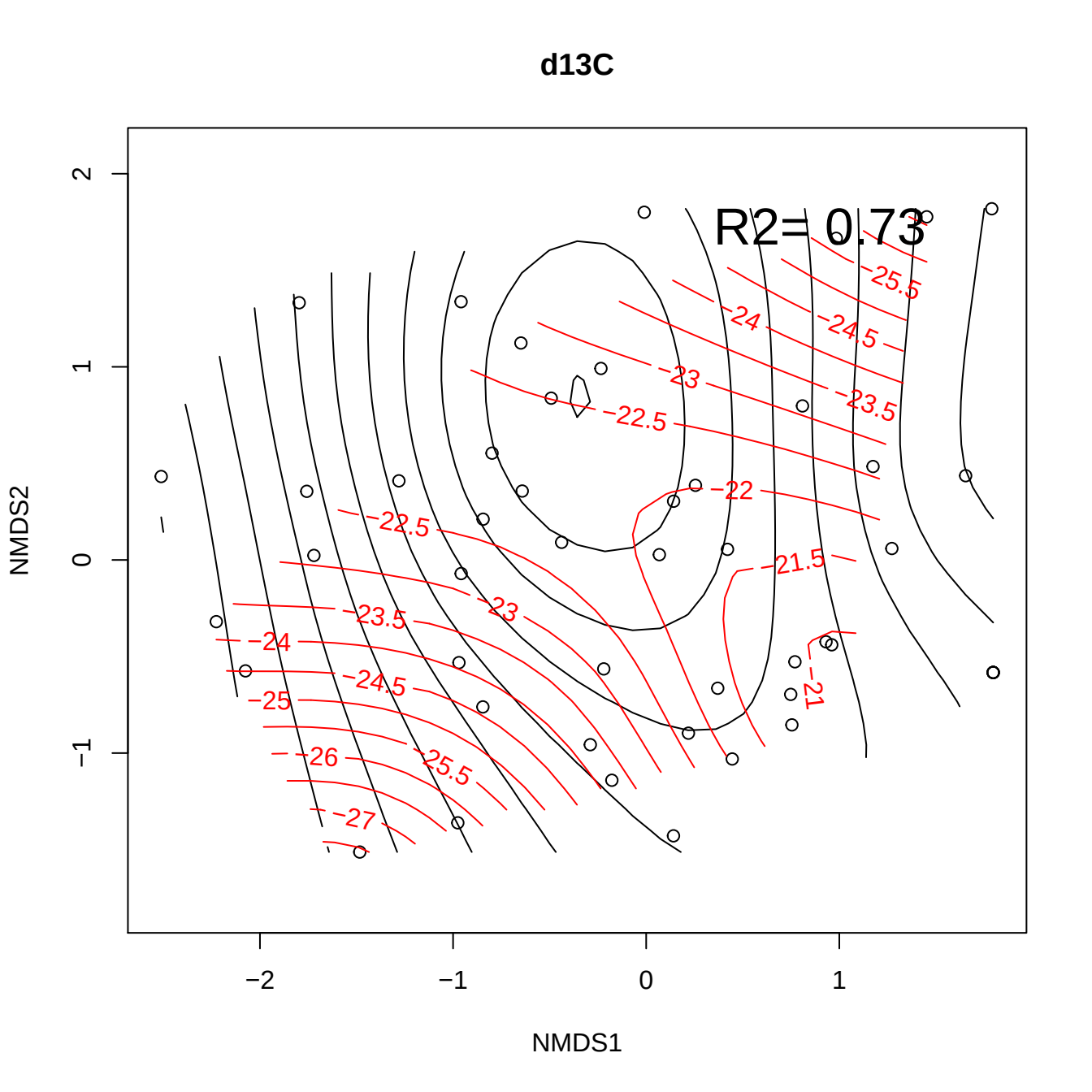

Time_Absorption
R2= 0.46
NMDS1
NMDS2
−2
−1
0
1
2
10
15
20
25
30
35
40
45
50
5

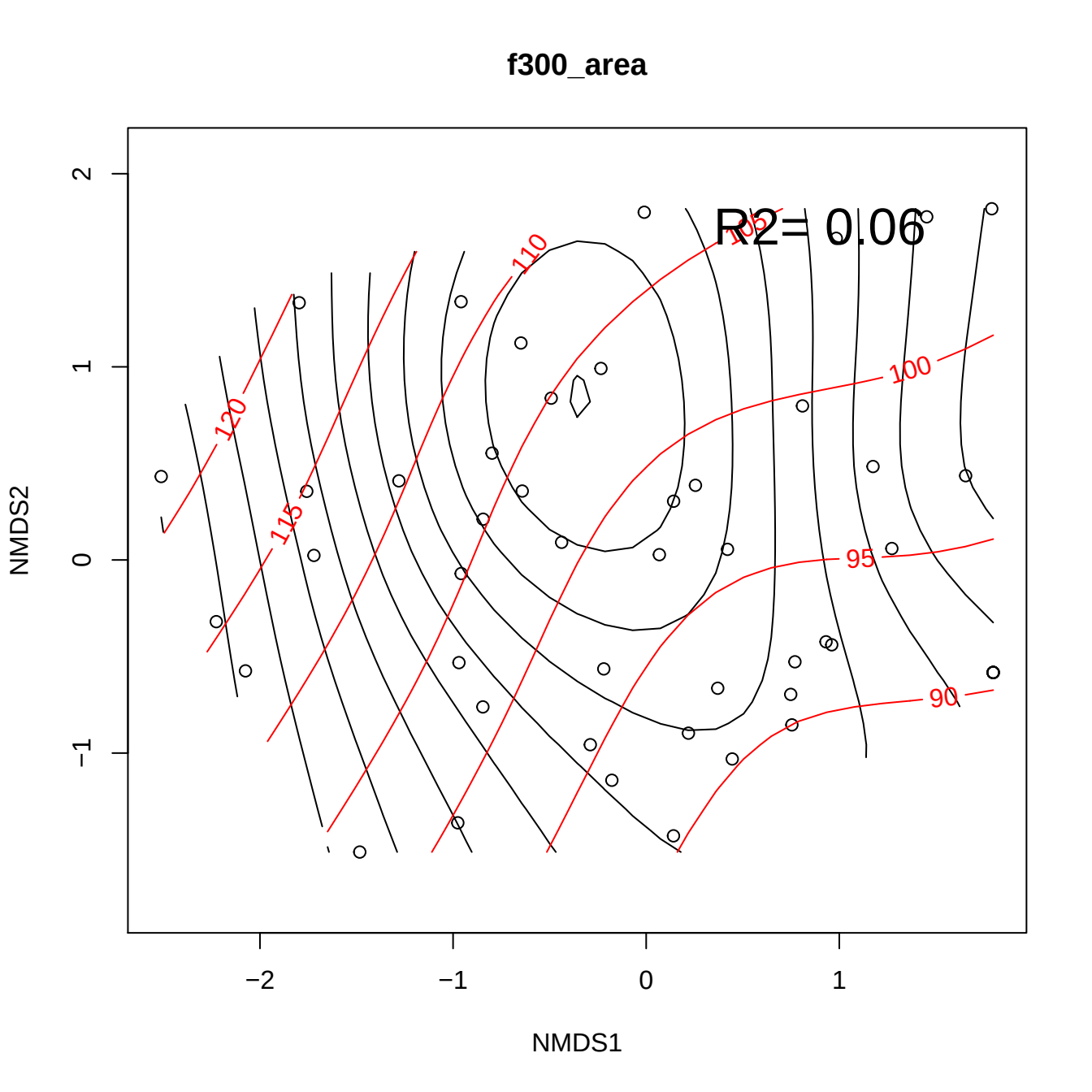

Angle
R2= 0.11
NMDS1
NMDS2
−2
−1
0
1
2
94
96
98
100
102
104
106
108
110
112
114
116
118

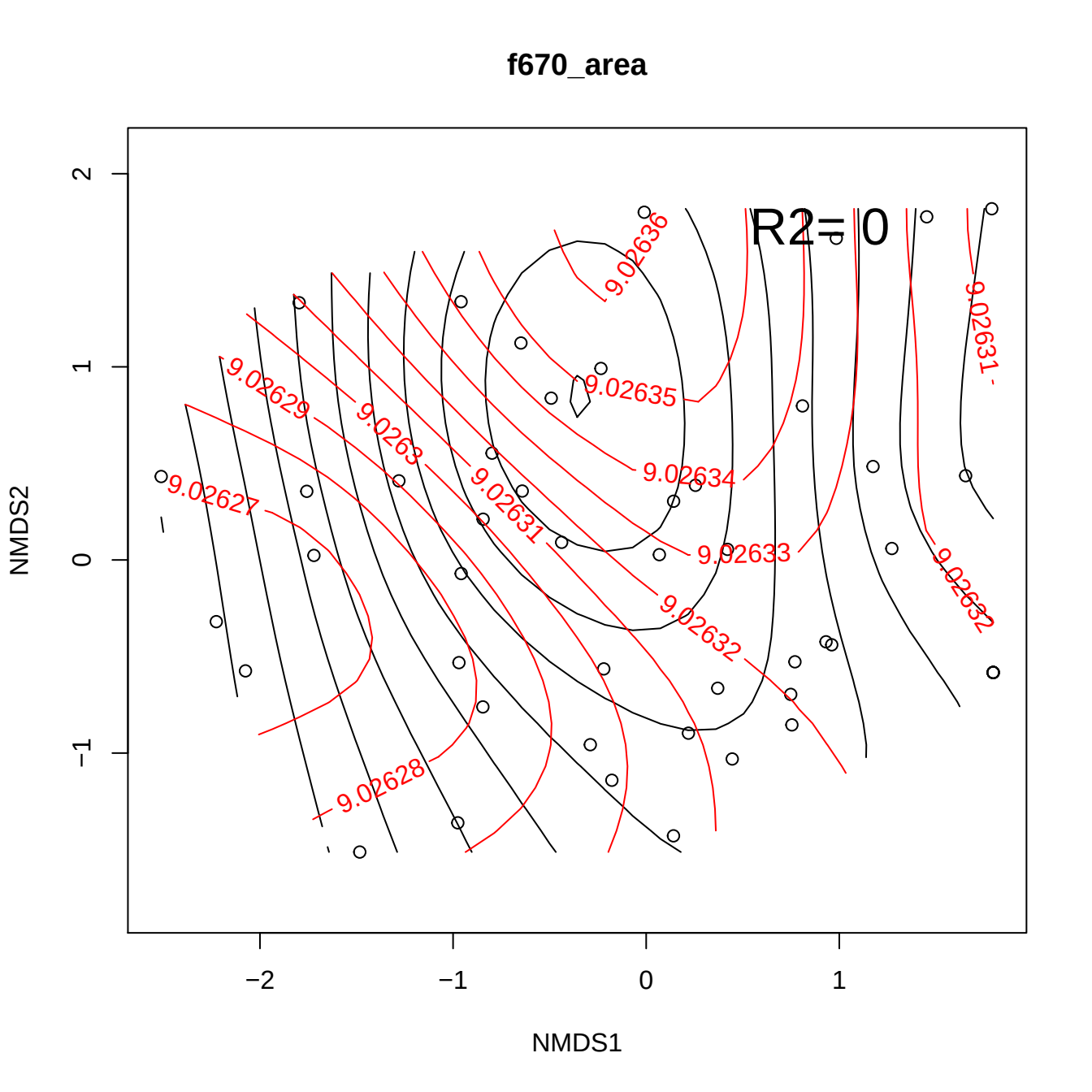

.N
R2= 0.68
0.9
1
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.1
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

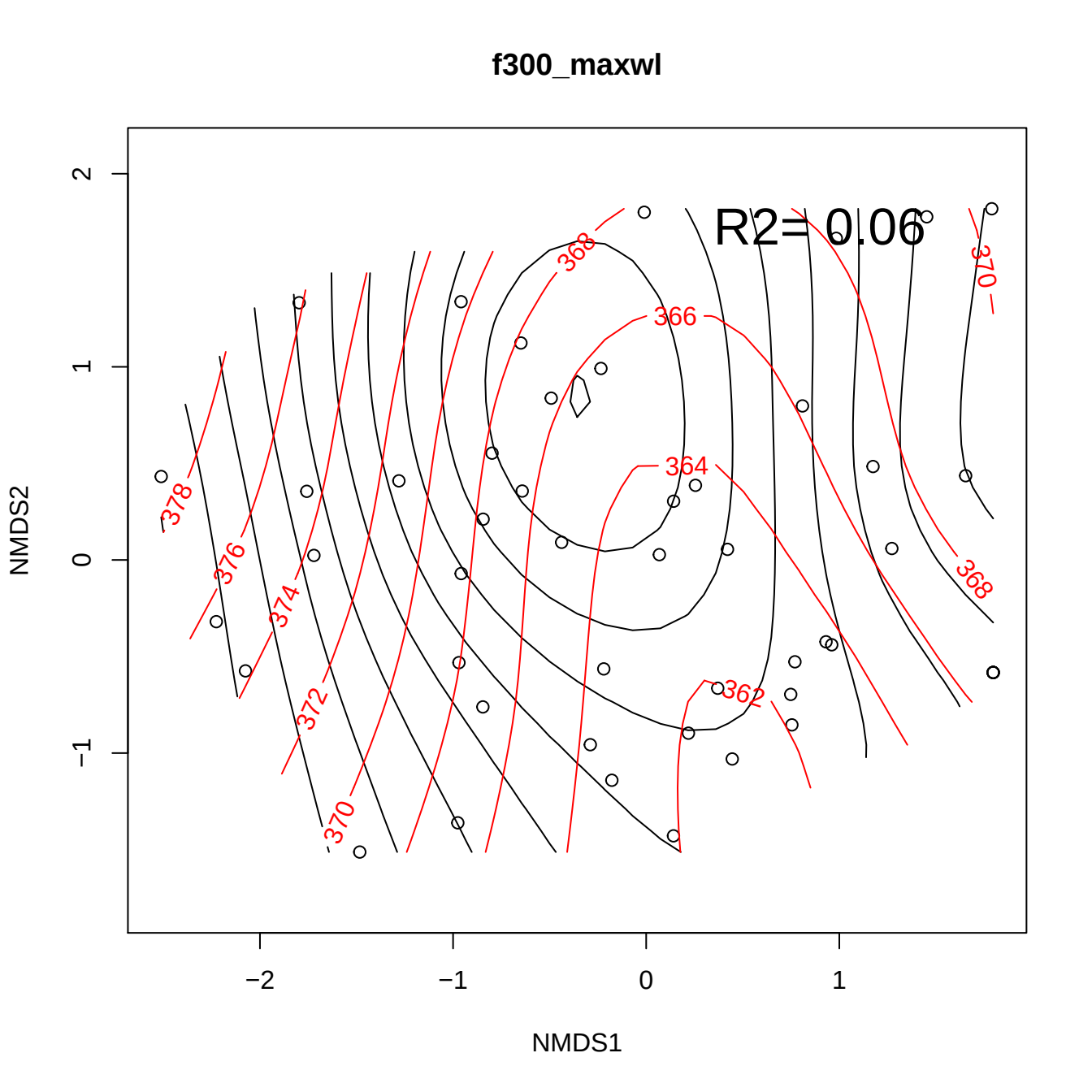

d15N
R2= 0.22
NMDS1
NMDS2
−2
−1
0
1
2
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
−0.1
−0.2
−0.3
−0.4
−0.5

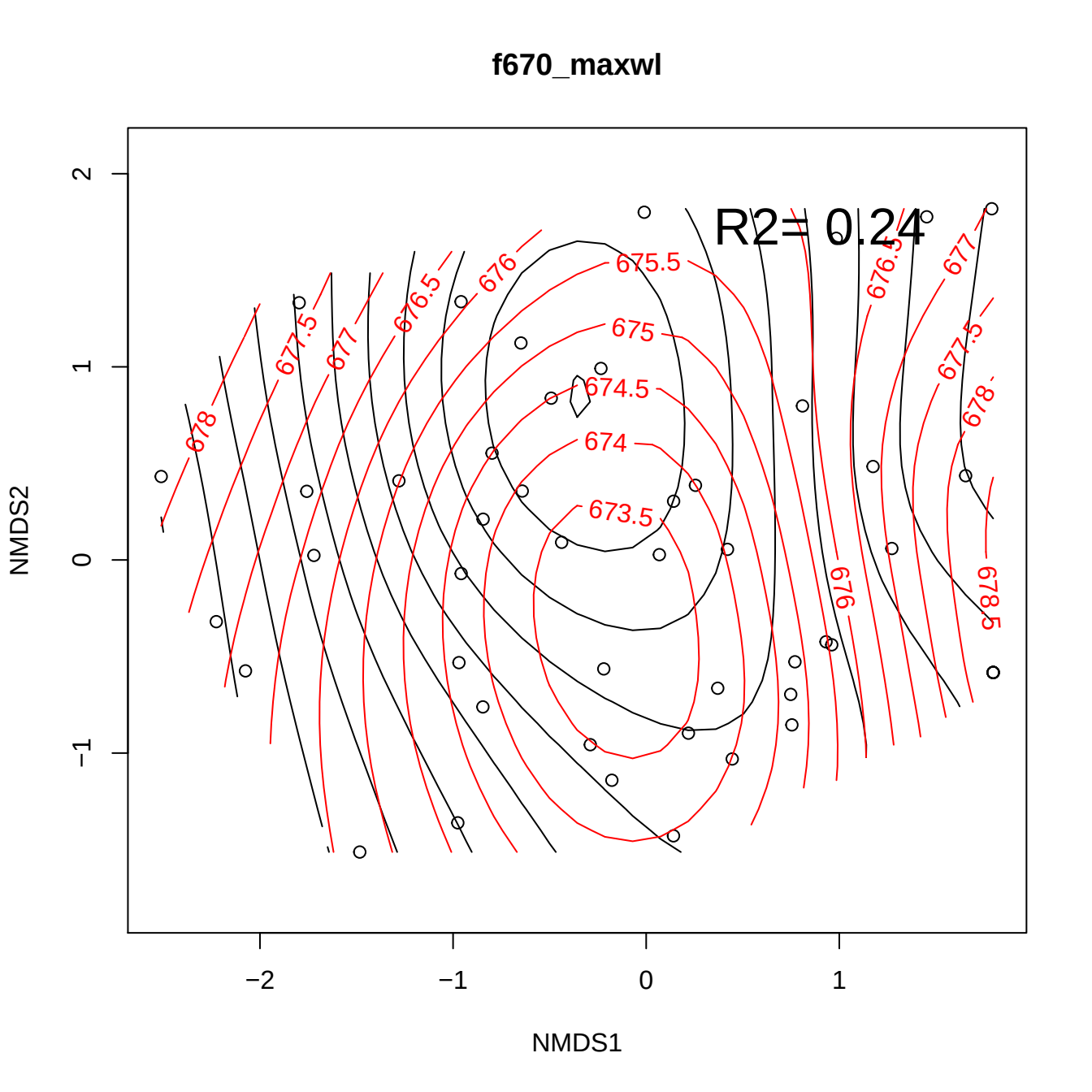

.c
R2= 0.98
NMDS1
NMDS2
−2
−1
0
1
2
28
30
32
34
36
38
40
42
44

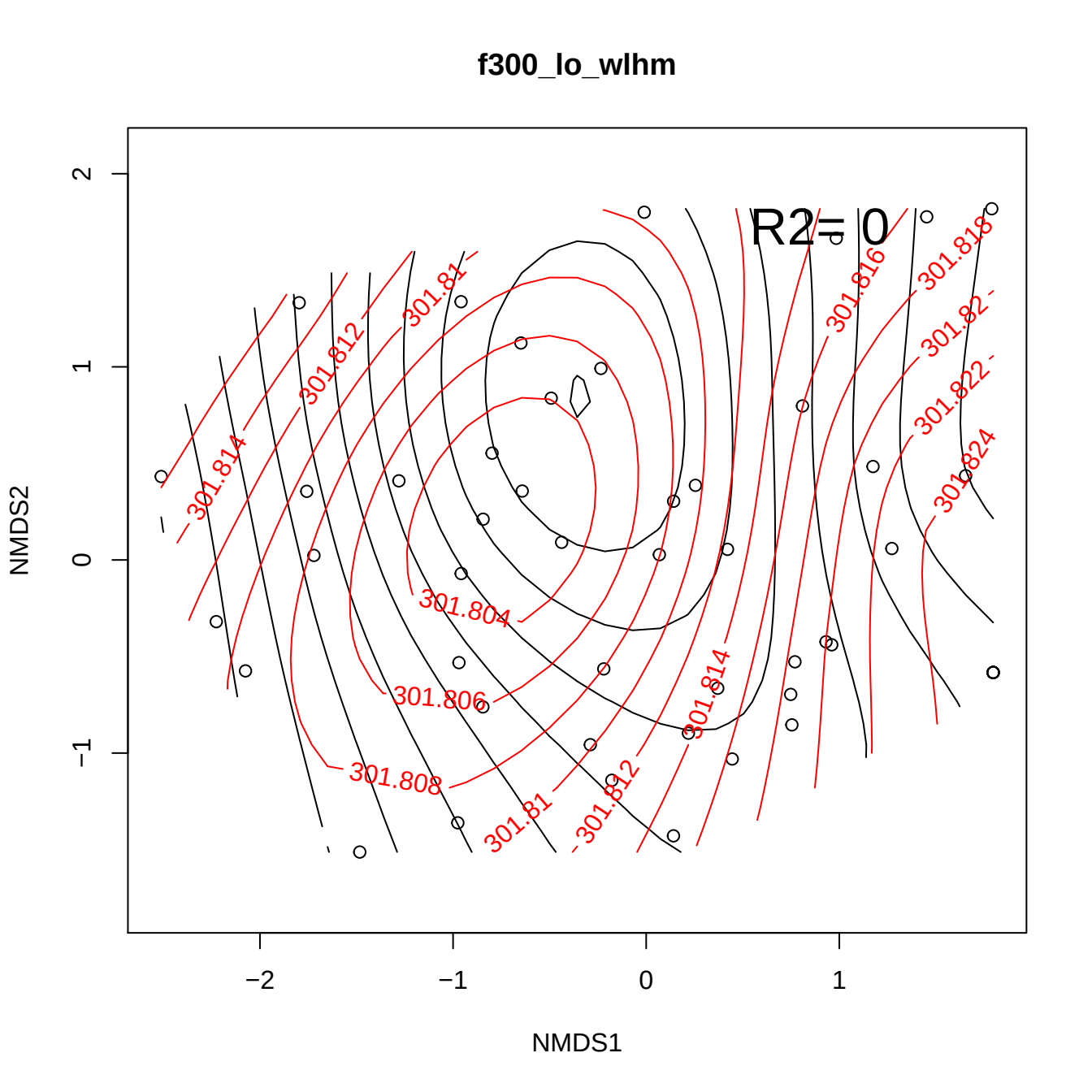

d13C
R2= 0.73
NMDS1
NMDS2
−2
−1
0
1
2
−22.5
−23
−23.5
−24
−24.5
−25
−26
−25.5
−27
−22
−21.5
−21

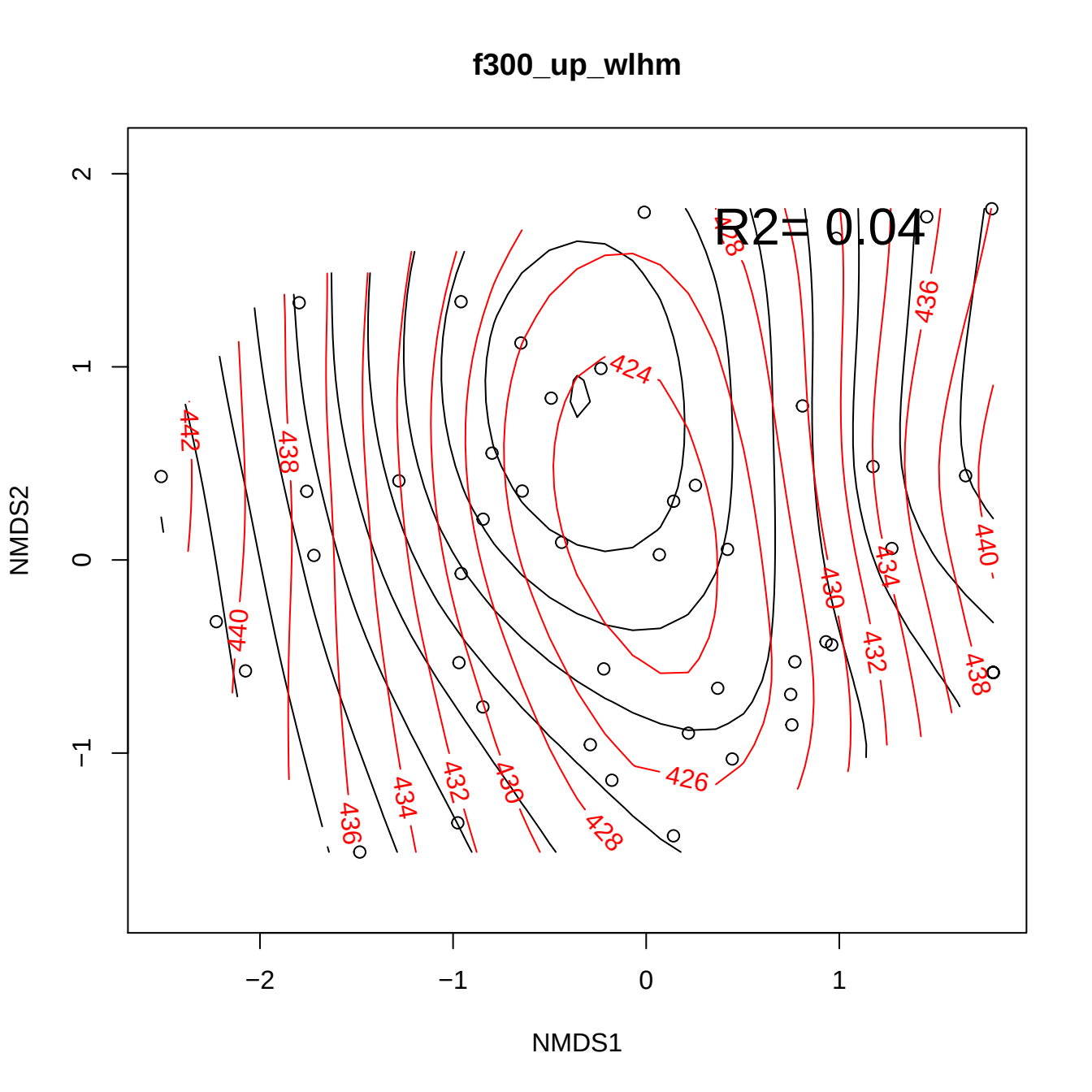

f300_area
R2= 0.06
NMDS1
NMDS2
−2
−1
0
1
2
120
115
110
105
100
95
90

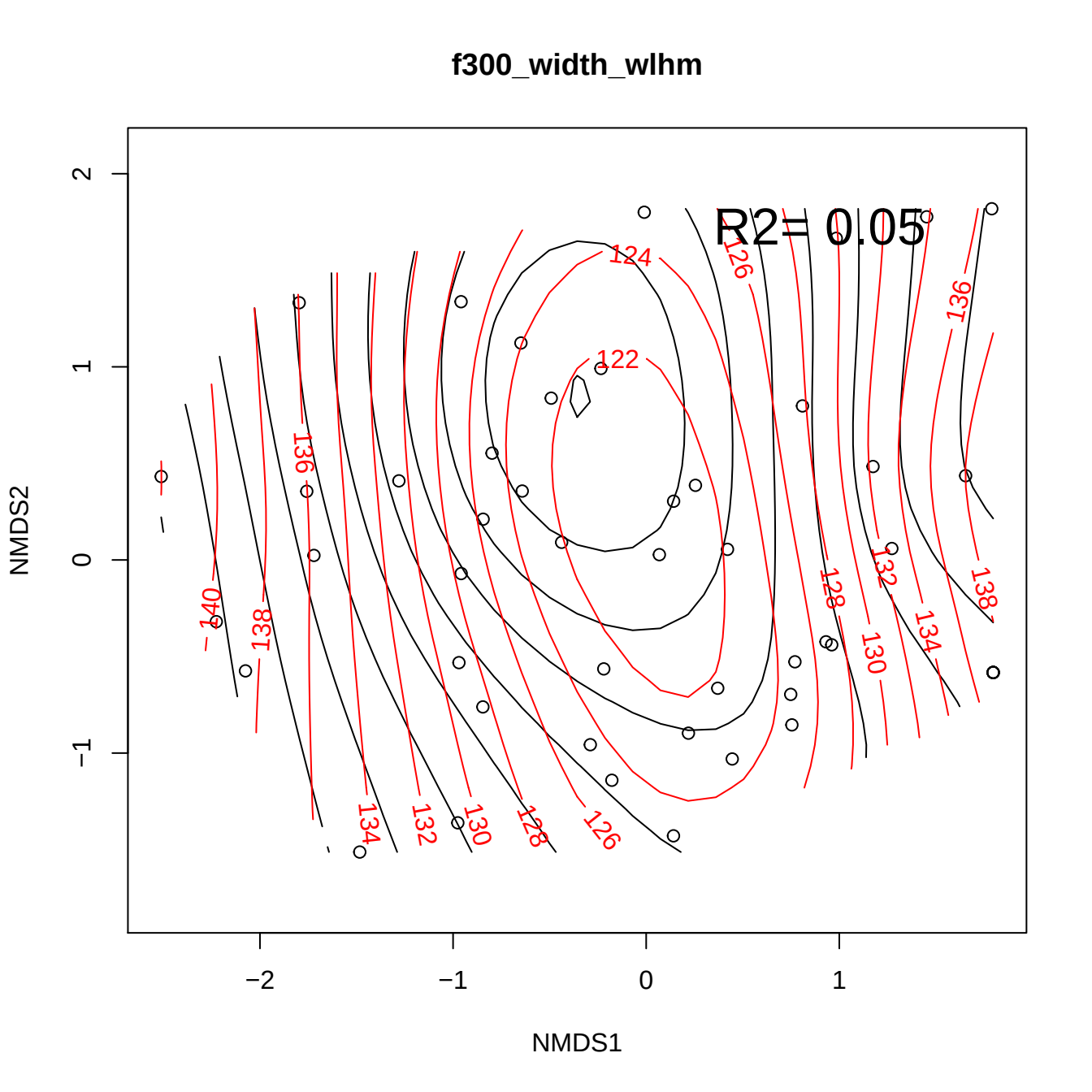

f670_area
R2= 0
9.02636
9.02635
9.02634
9.02633
9.02632
9.02631
9.02629
9.0263
9.02627
9.02628
NMDS1
NMDS2
−2
−1
0
1
2

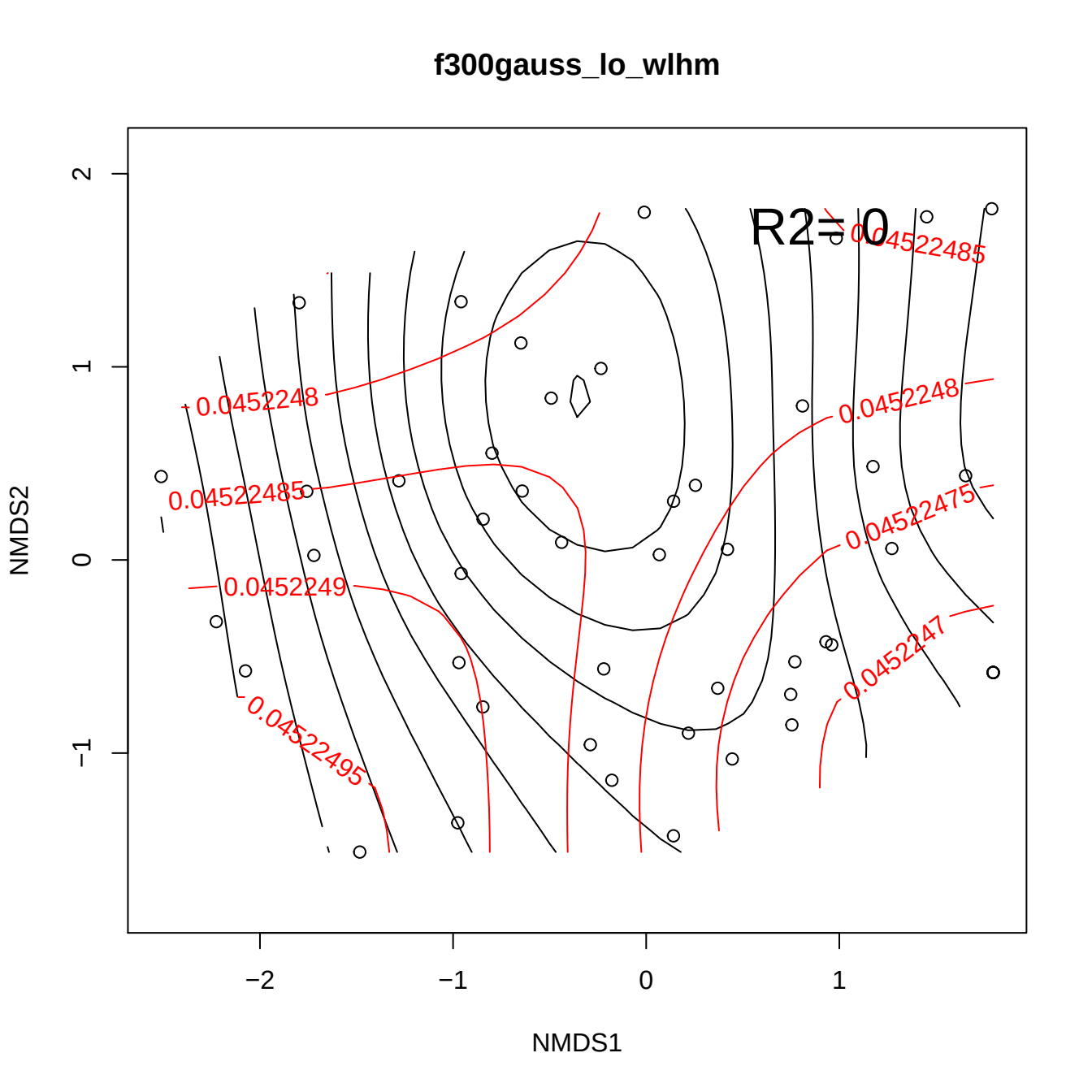

f300_maxwl
R2= 0.06
NMDS1
NMDS2
−2
−1
0
1
2
378
376
374
372
370
368
366
364
362
370
368

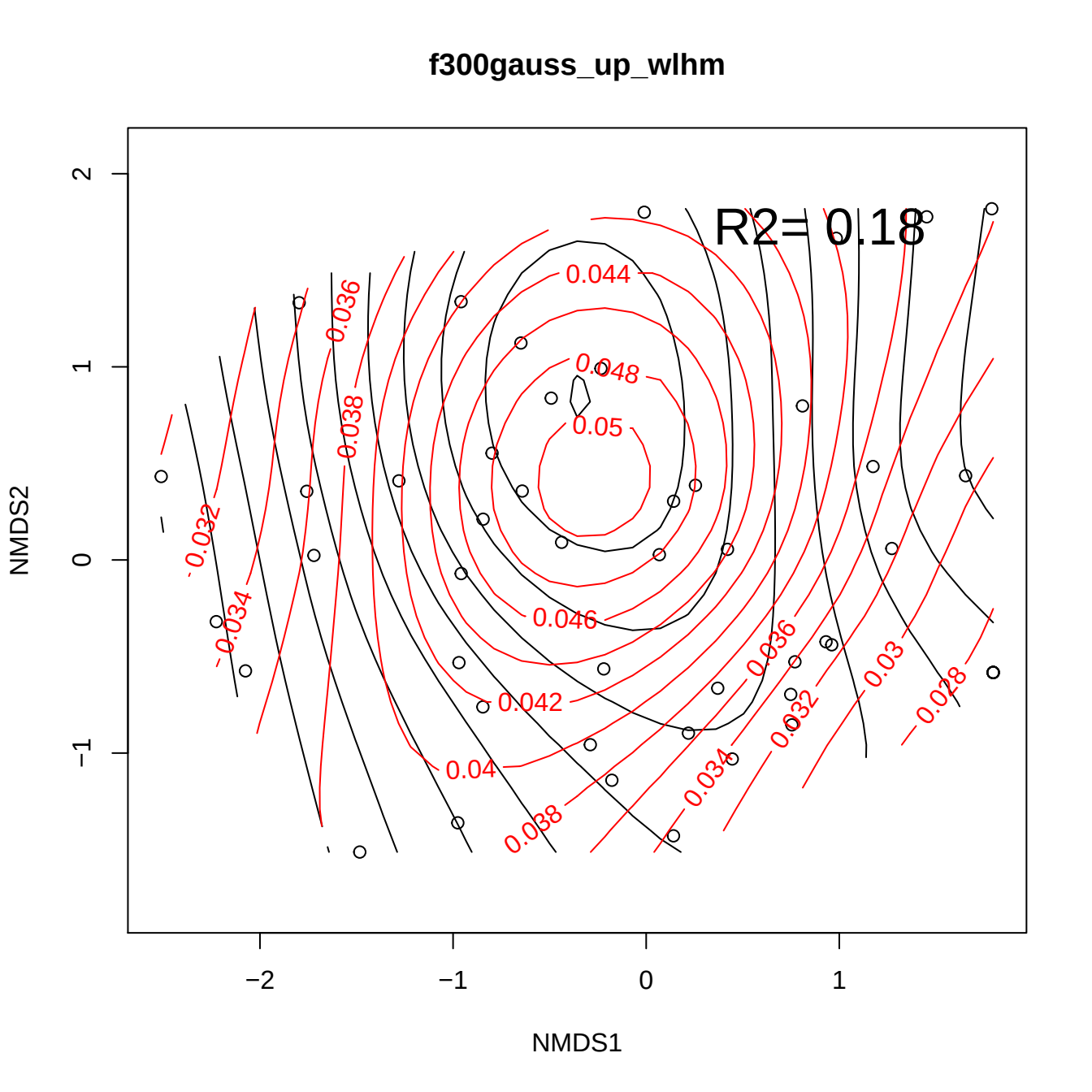

f670_maxwl
R2= 0.24
675.5
675
674.5
674
673.5
676
676.5
677
677.5
678
678.5
NMDS1
NMDS2
−2
−1
0
1
2

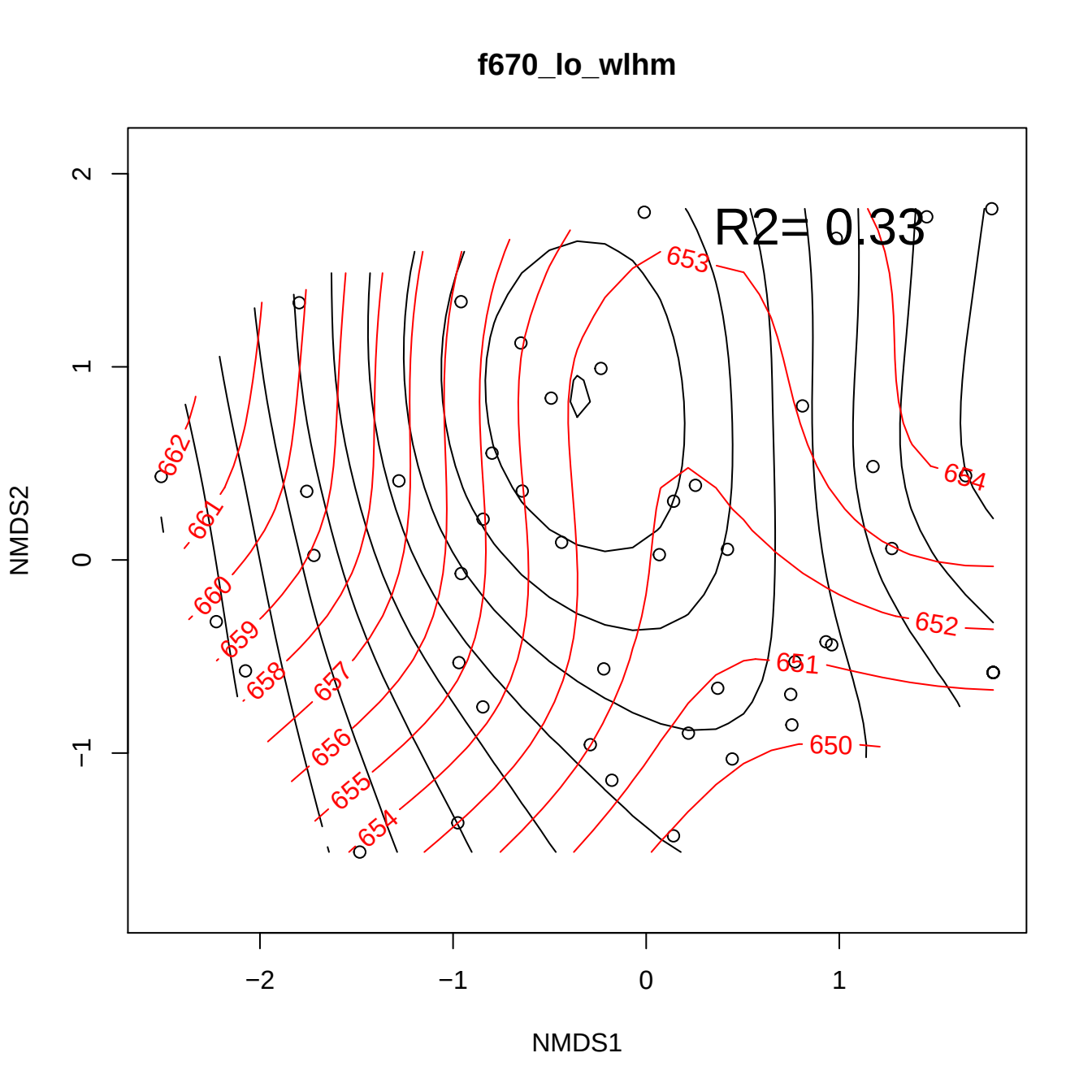

f300_lo_wlhm
R2= 0
301.81
301.812
301.814
301.804
301.806
301.808
301.816
301.818
301.82
301.822
301.824
NMDS1
NMDS2
−2
−1
0
1
2

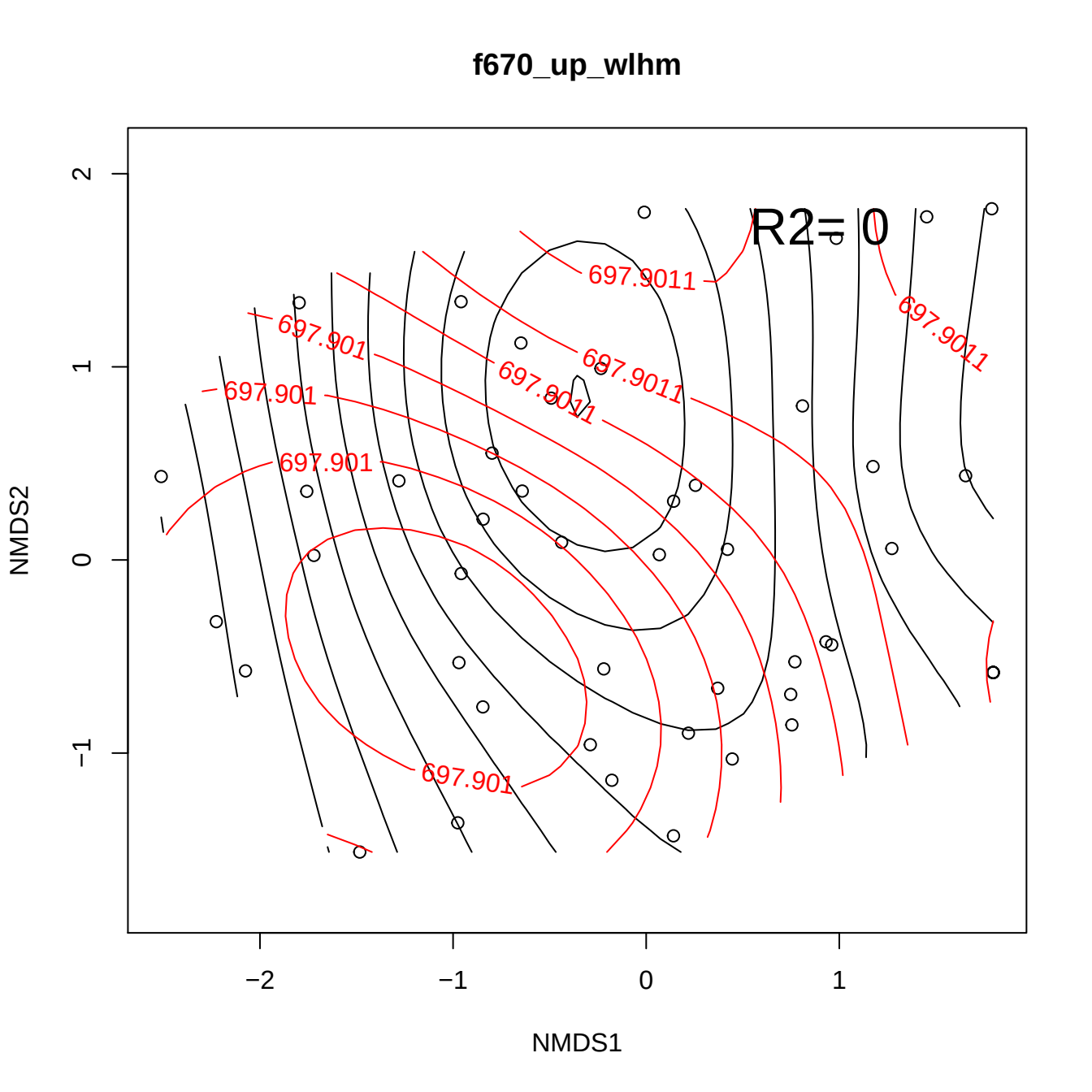

f300_up_wlhm
R2= 0.04
NMDS1
NMDS2
−2
−1
0
1
2
424
426
428
430
432
434
436
438
440
442
444

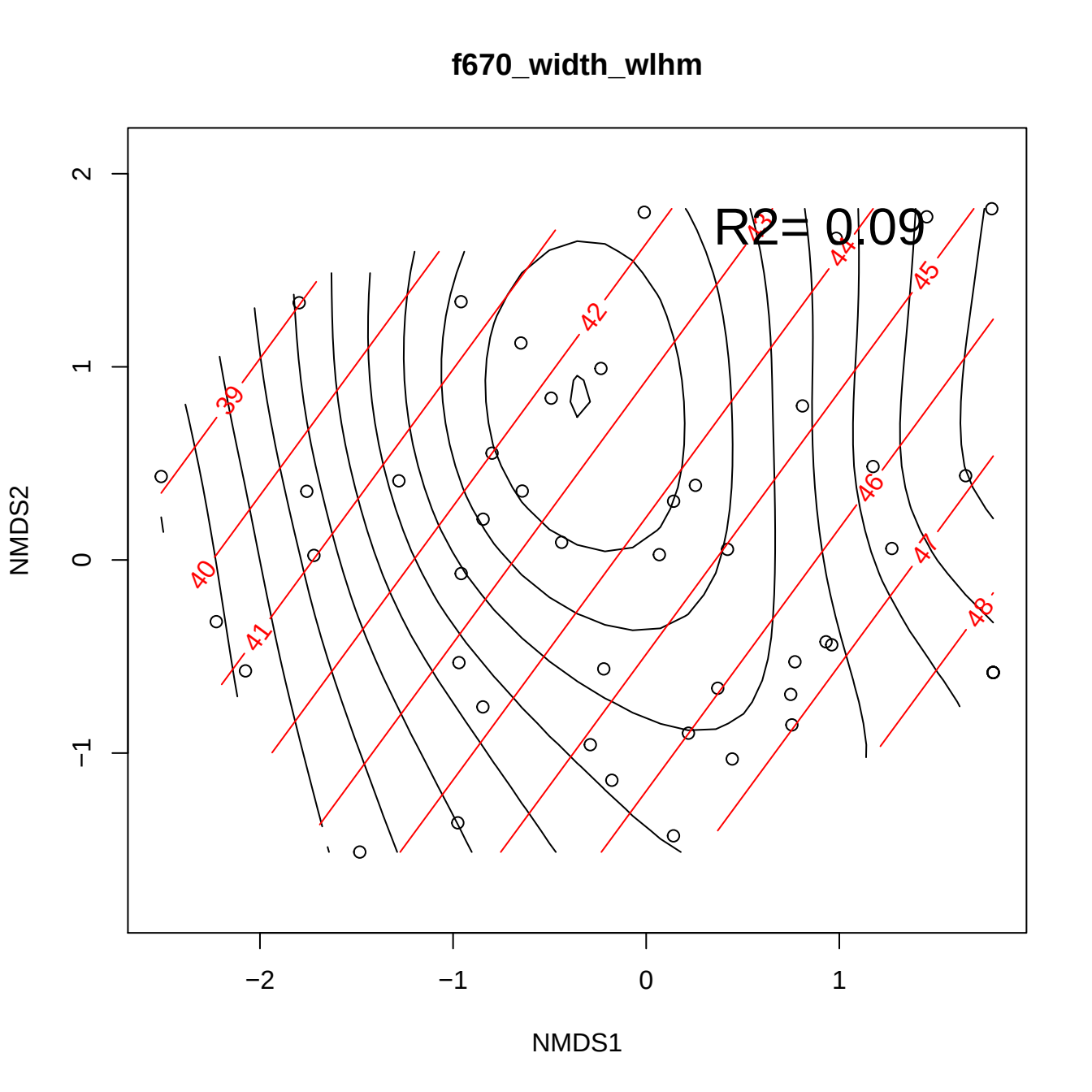

f300_width_wlhm
R2= 0.05
NMDS1
NMDS2
−2
−1
0
1
2
122
124
126
128
130
132
134
136
138
140

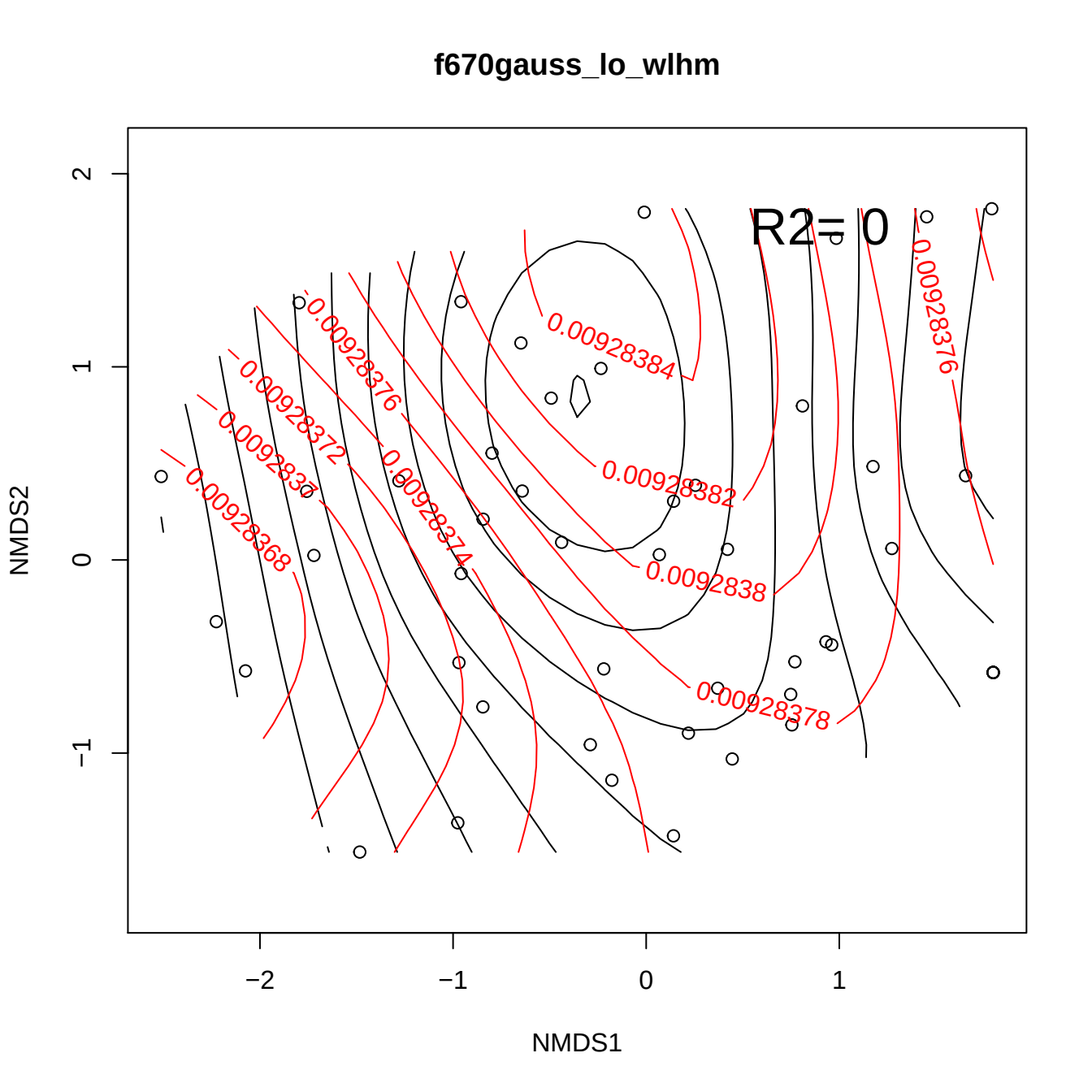

f300gauss_lo_wlhm
R2=0
0.04522485
0.0452248
0.04522485
0.0452249
0.0452248
0.04522475
0.0452247
0.0452249
0.04522495
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

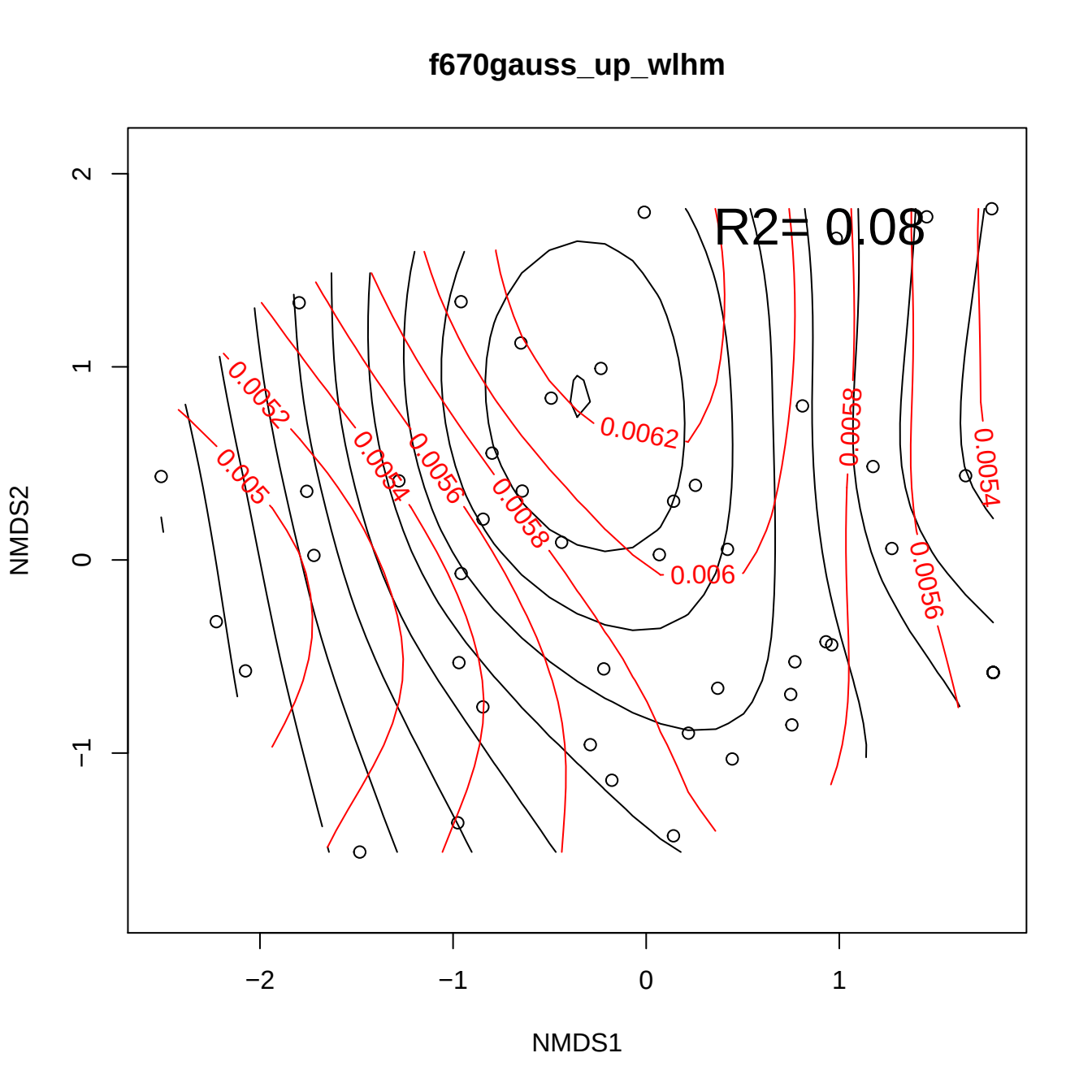

f300gauss_up_wlhm
R2= 0.18
0.044
0.048
0.05
0.046
0.042
0.04
0.038
0.036
0.034
0.032
0.03
0.028
0.036
0.038
0.034
0.032
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

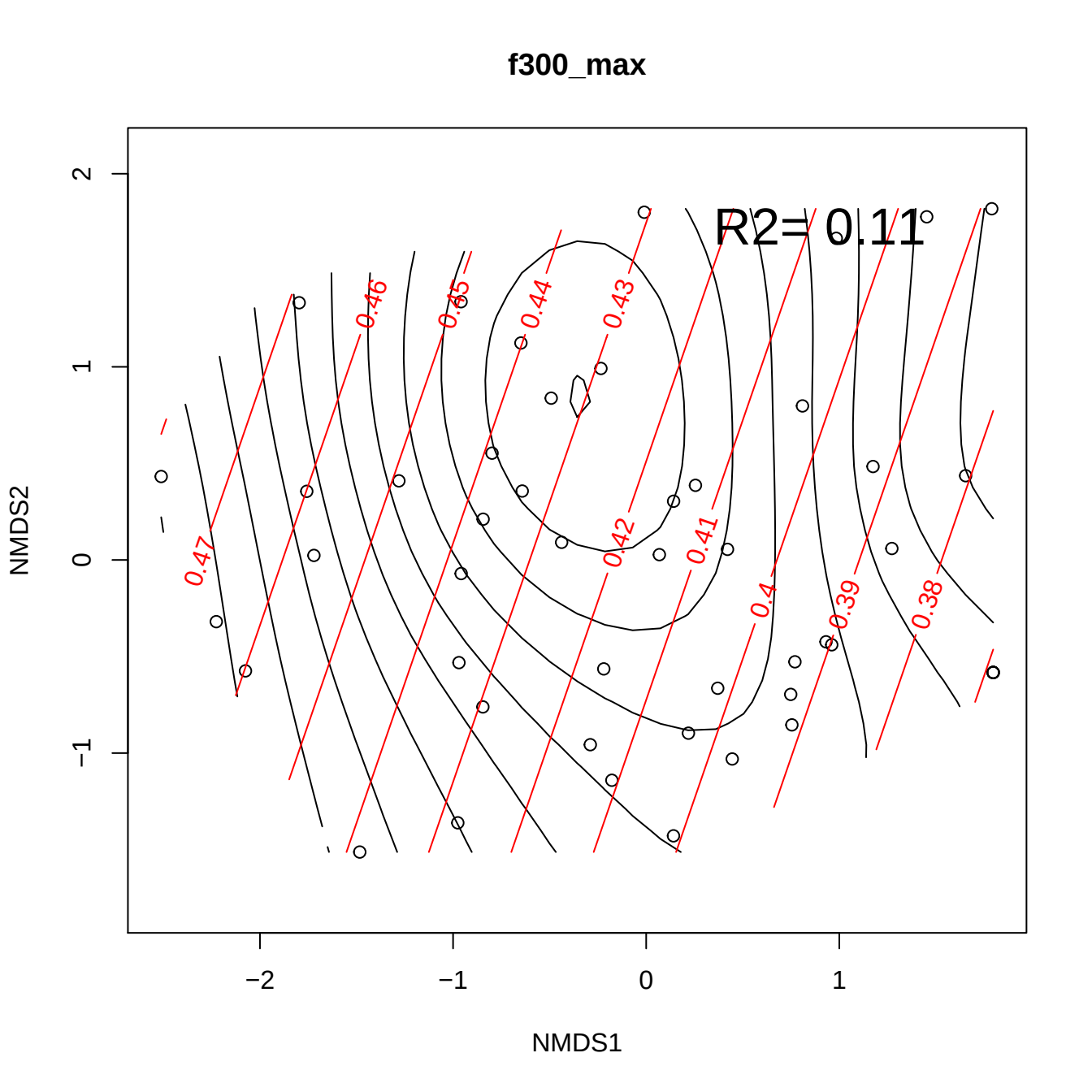

f670_lo_wlhm
R2= 0.33
NMDS1
NMDS2
−2
−1
0
1
2
650
651
652
653
654
655
656
657
658
659
660
661
662

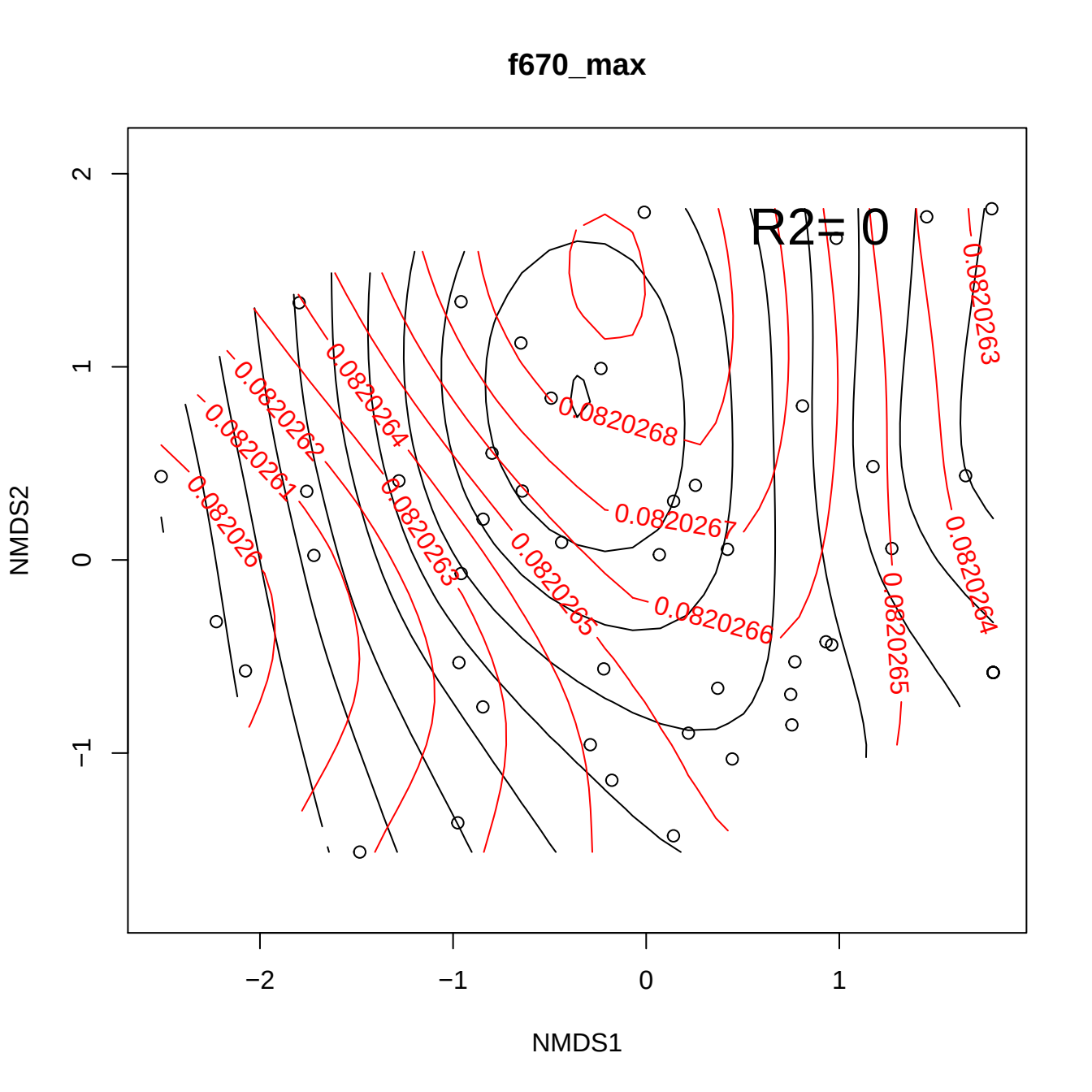

f670_up_wlhm
R2= 0
697.9011
697.9011
697.9011
697.9011
697.901
697.901
697.901
697.901
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

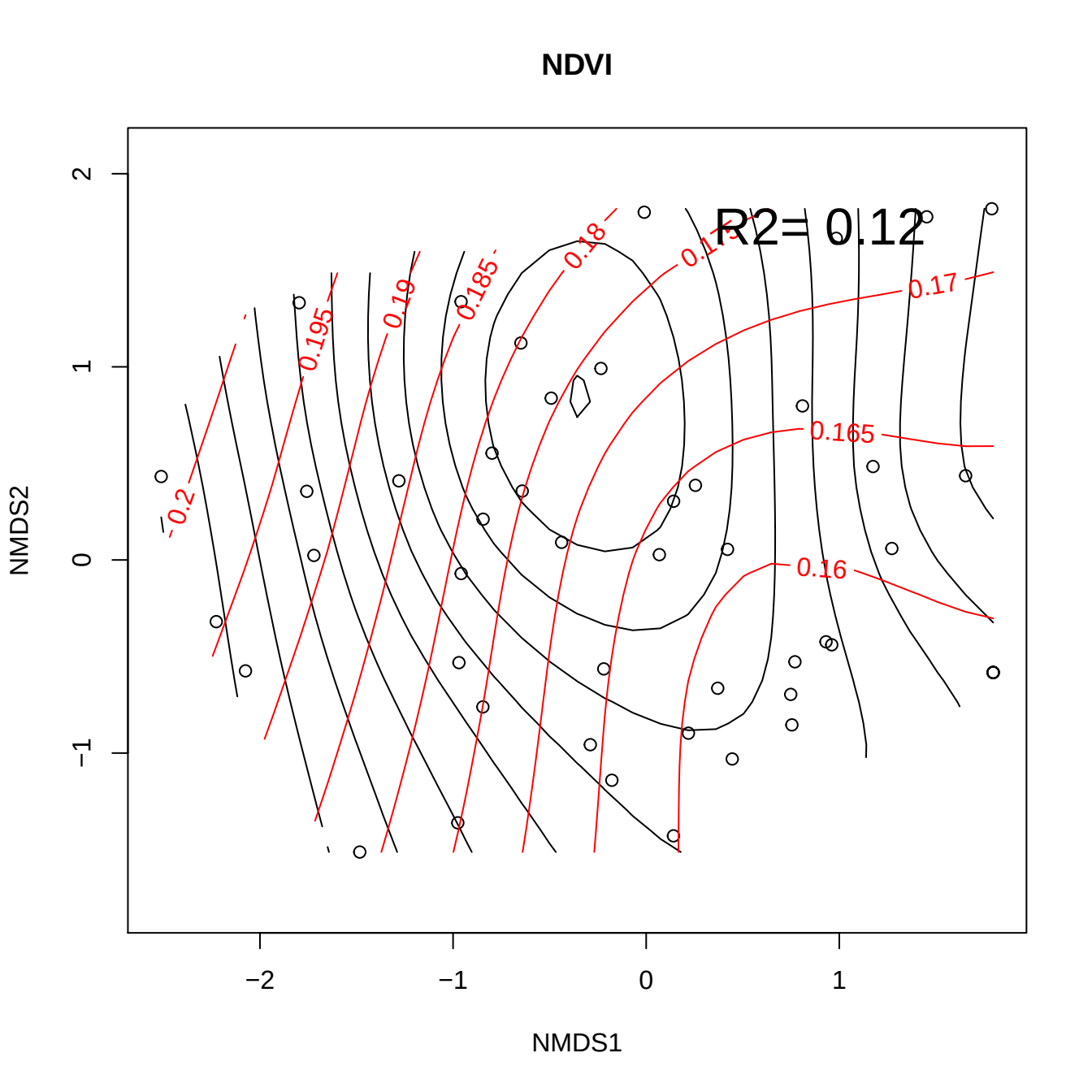

f670_width_wlhm
R2= 0.09
NMDS1
NMDS2
−2
−1
0
1
2
39
40
41
42
43
44
45
46
47
48

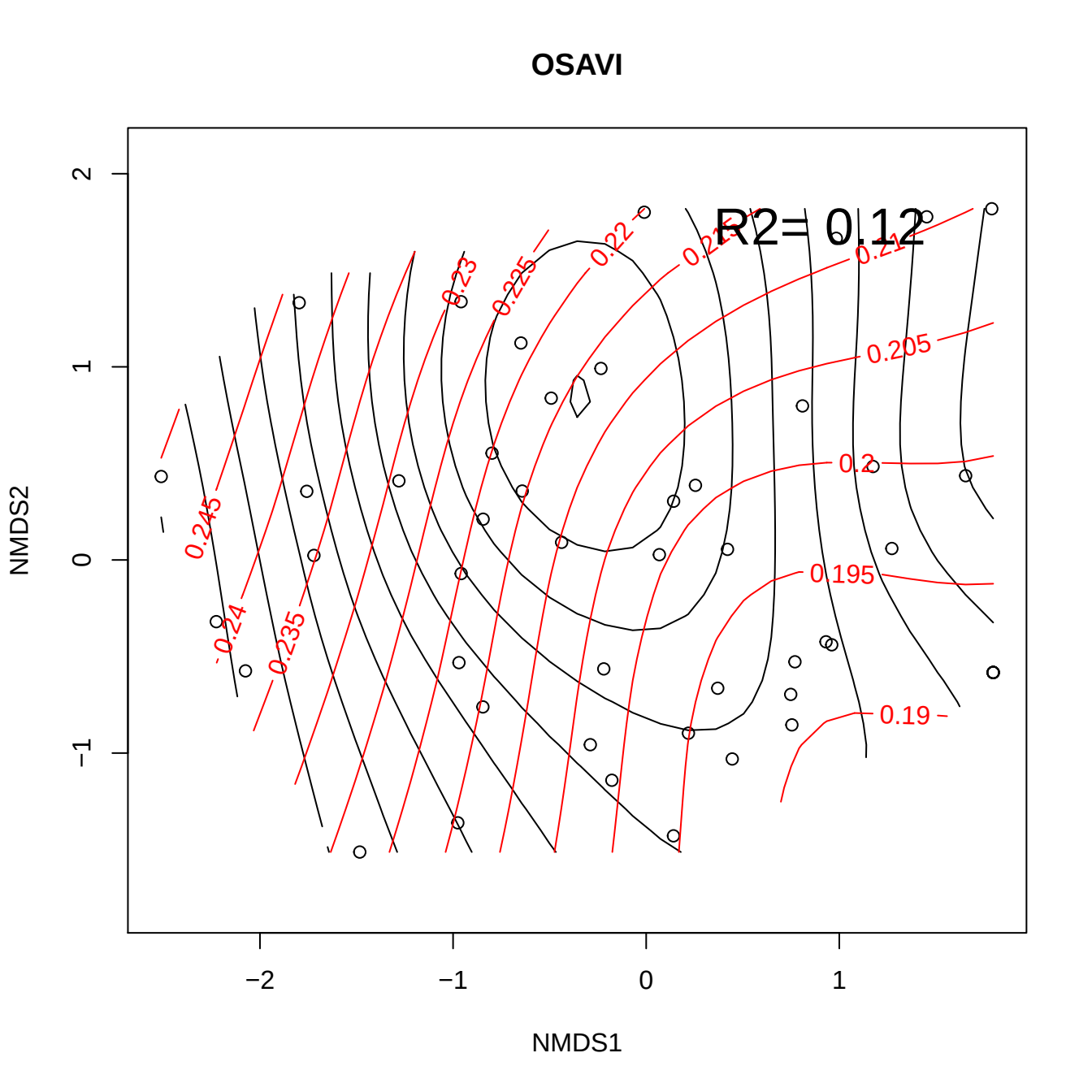

f670gauss_lo_wlhm
R2= 0
0.00928384
0.00928382
0.0092838
0.00928378
0.00928376
0.00928374
0.00928372
0.0092837
0.00928368
0.00928376
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

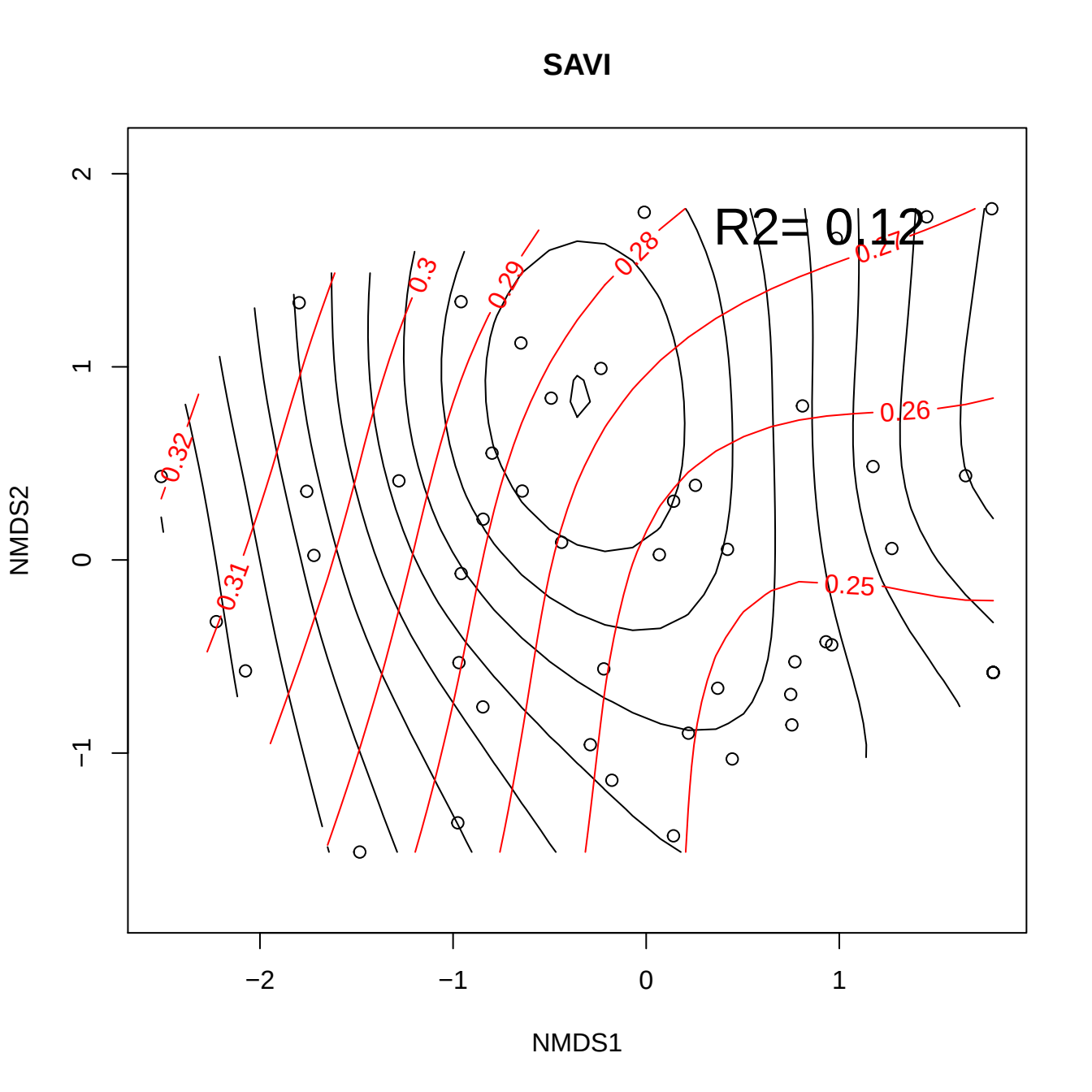

f670gauss_up_wlhm
R2= 0.08
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
NMDS1
NMDS2
−2
−1
0
1
2

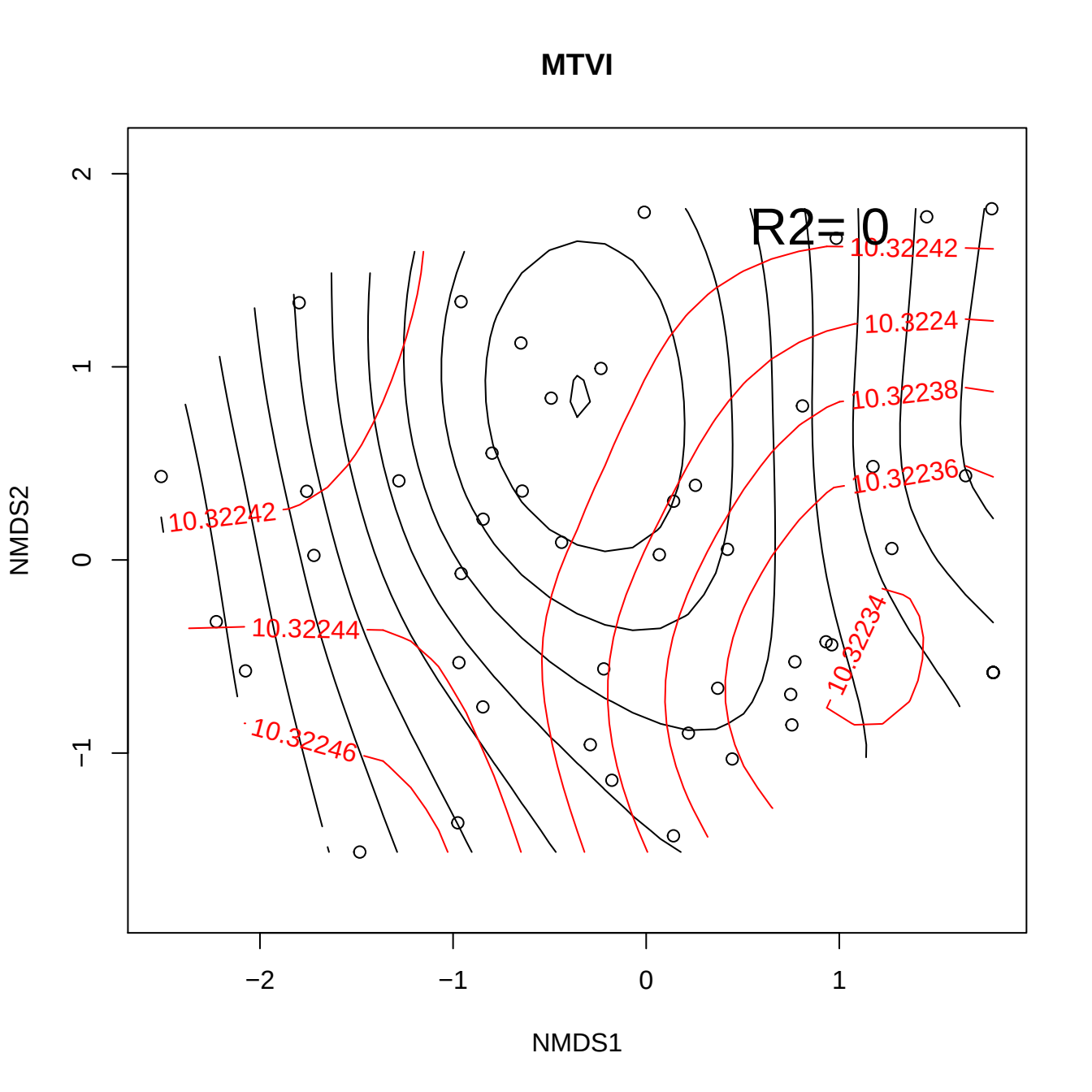

f300_max
R2= 0.11
0.47
0.46
0.45
0.44
0.43
0.42
0.41
0.4
0.39
0.38
NMDS1
NMDS2
−2
−1
0
1
2

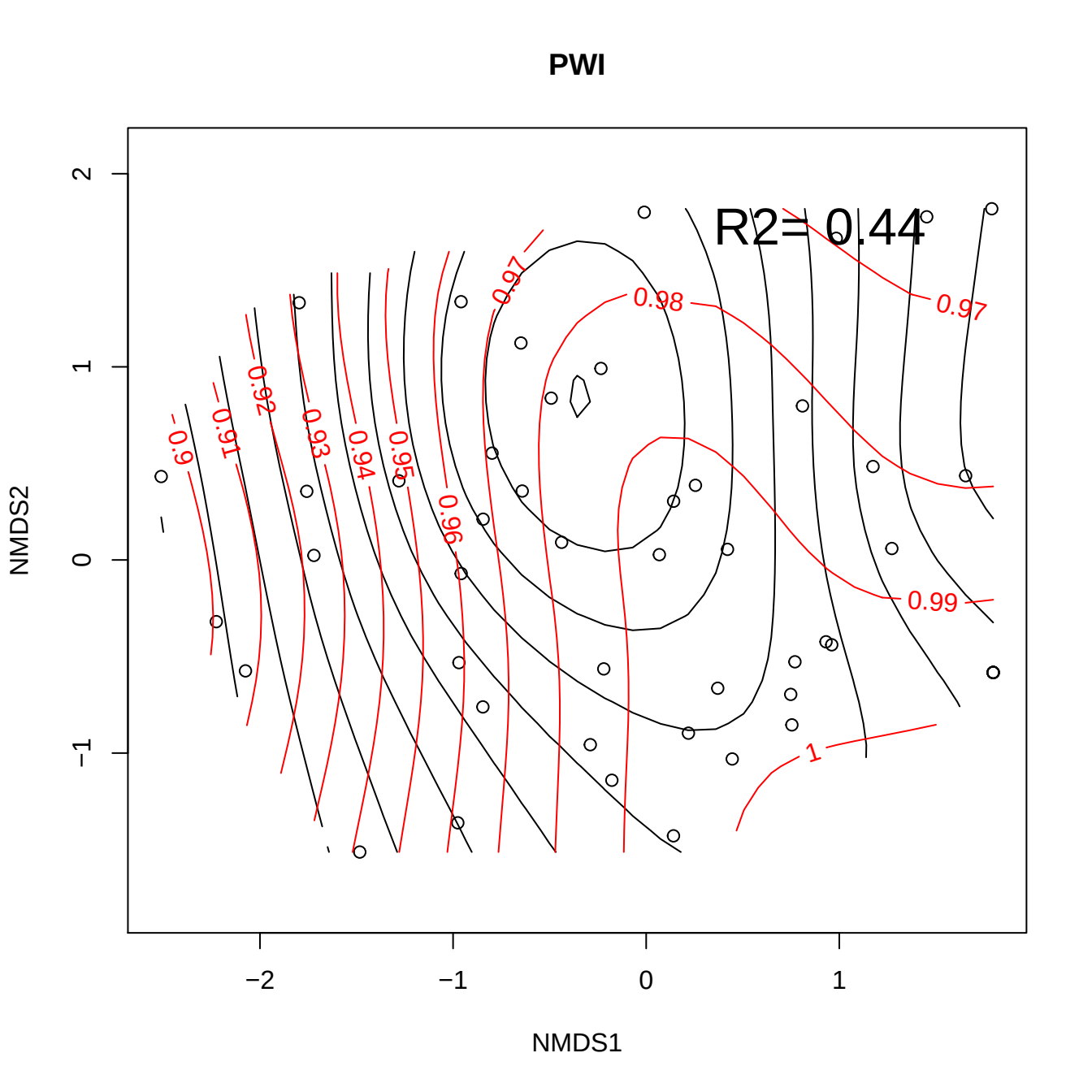

f670_max
R2= 0
NMDS1
NMDS2
−2
−1
0
1
2
0.0820263
0.0820264
0.0820265
0.0820266
0.0820267
0.0820268
0.0820263
0.0820264
0.0820262
0.0820261
0.082026
0.0820263
0.0820265

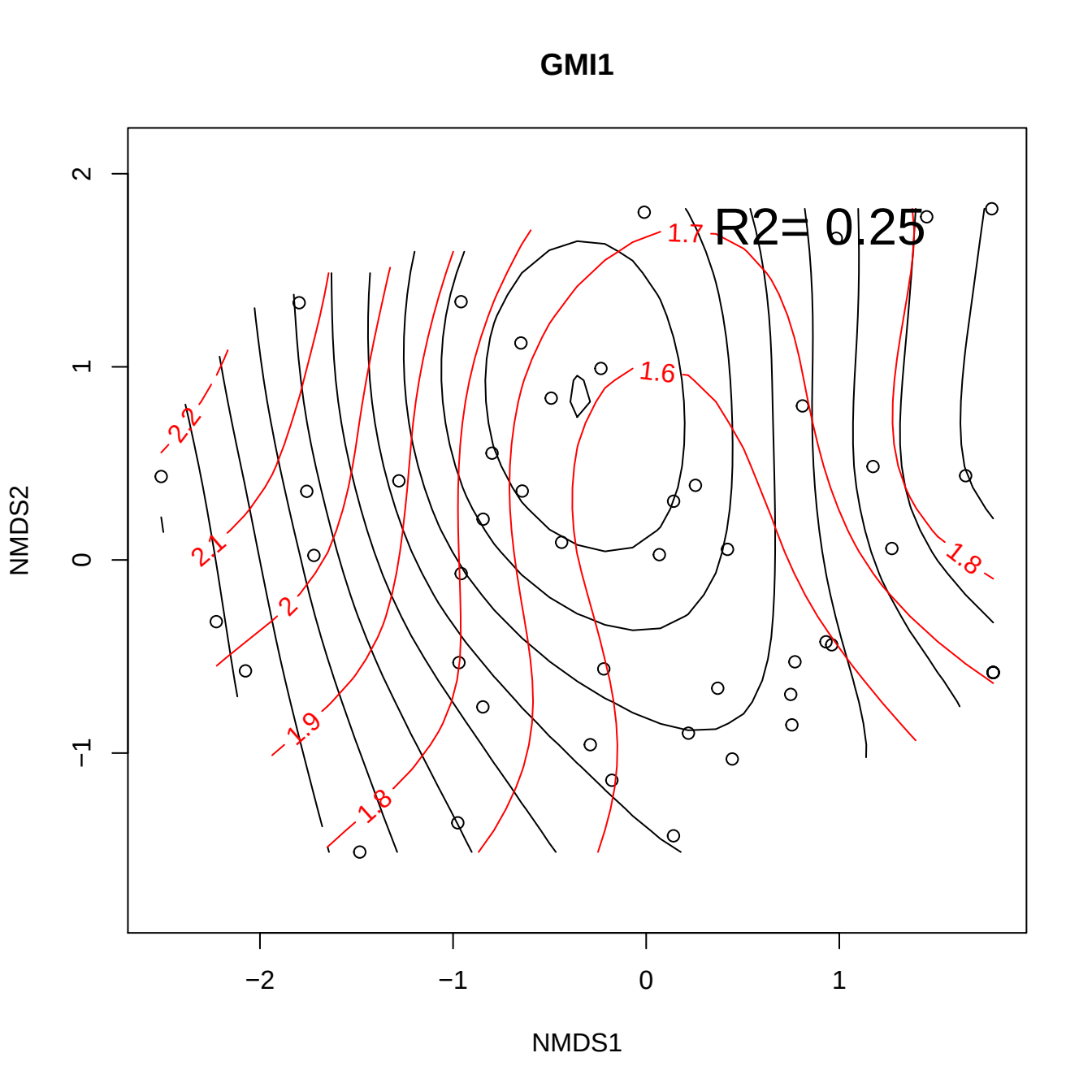

NDVI
R2= 0.12
0.2
0.195
0.19
0.185
0.18
0.175
0.17
0.165
0.16
NMDS1
NMDS2
−2
−1
0
1
2

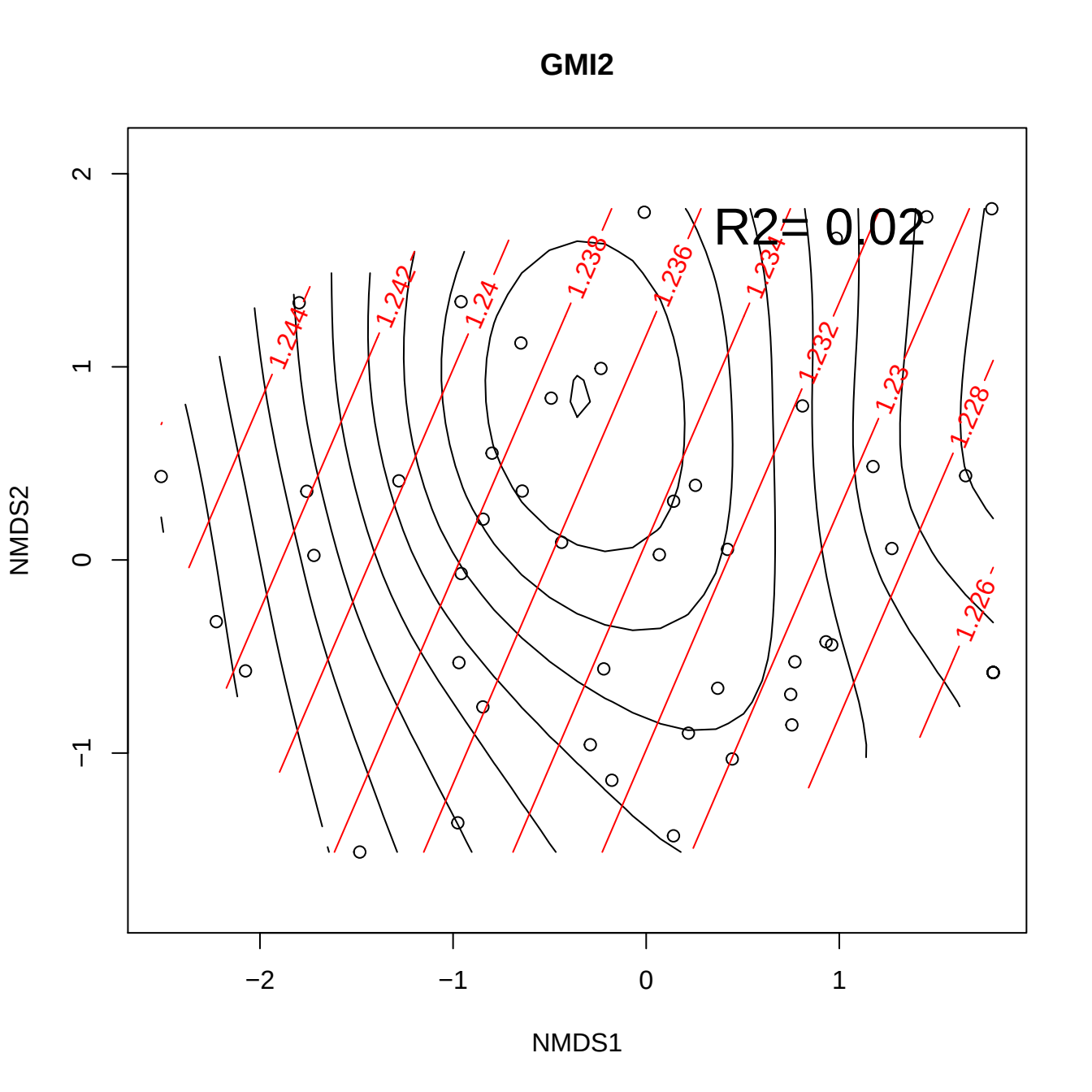

OSAVI
R2= 0.12
0.245
0.24
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
0.195
0.19
NMDS1
NMDS2
−2
−1
0
1
2

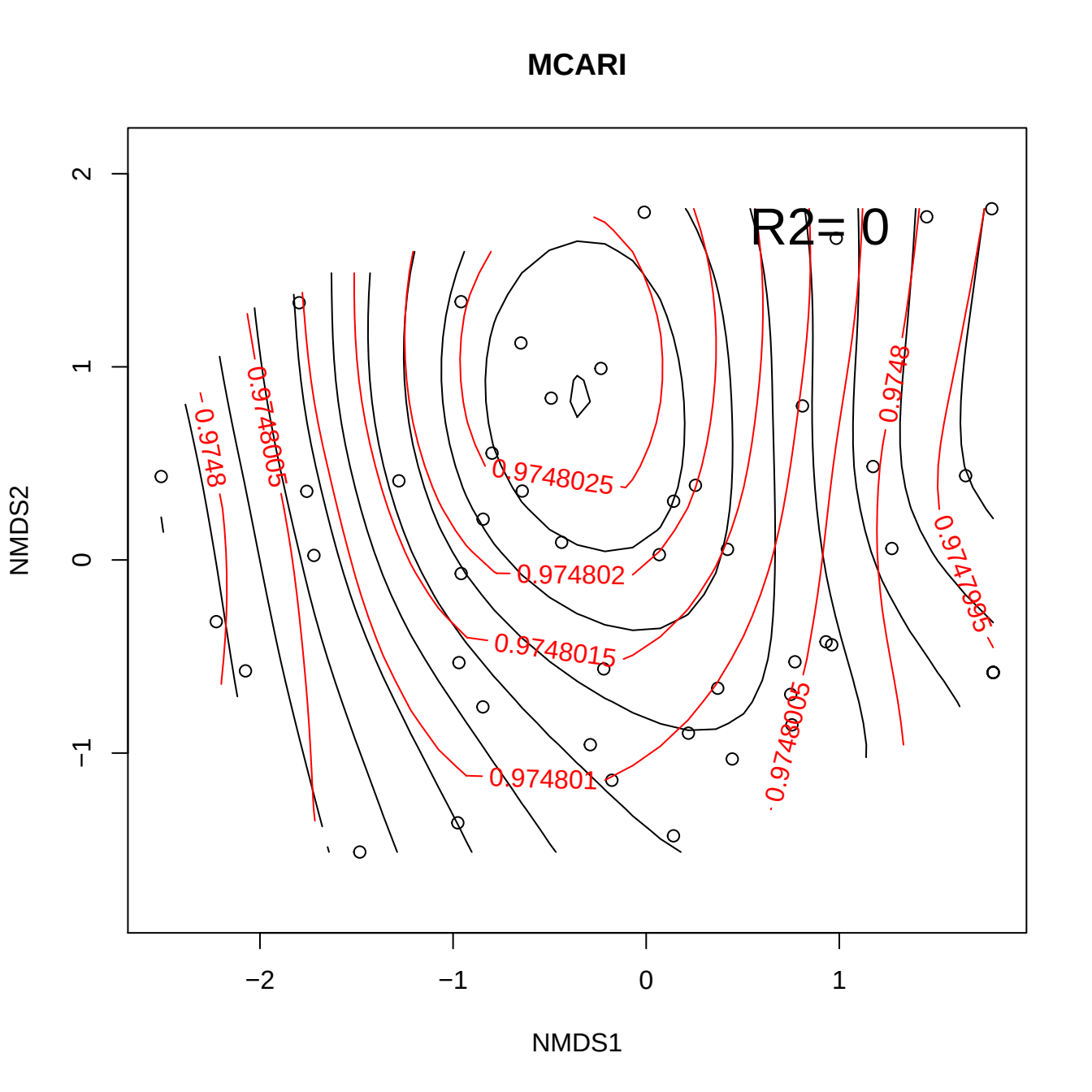

SAVI
R2= 0.12
0.32
0.31
0.3
0.29
0.28
0.27
0.26
0.25
NMDS1
NMDS2
−2
−1
0
1
2

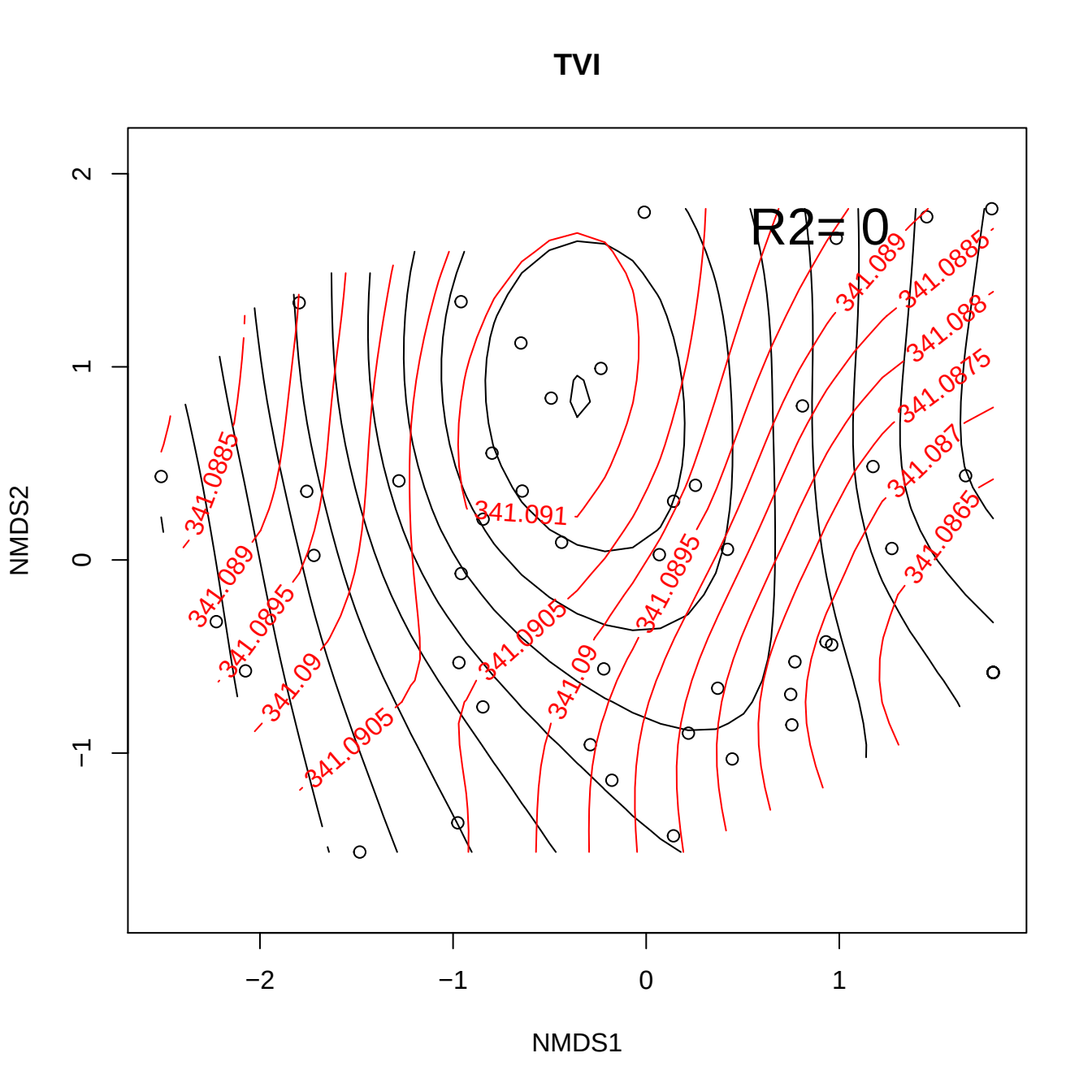

MTVI
R2= 0
10.32242
10.3224
10.32238
10.32236
10.32234
10.32242
10.32244
10.32246
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

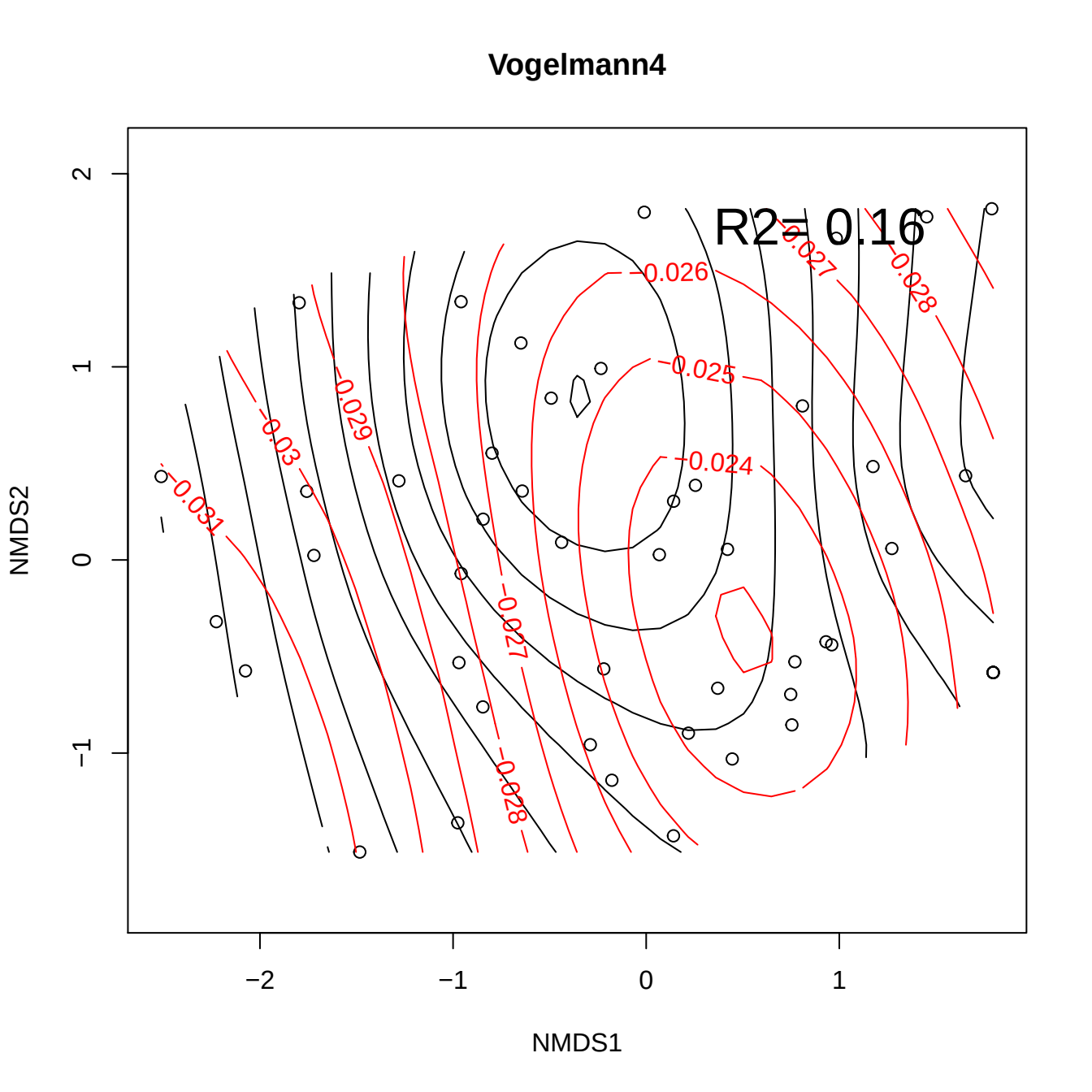

PWI
R2= 0.44
0.9
0.91
0.92
0.93
0.94
0.95
0.96
0.97
0.98
0.97
0.99
1
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

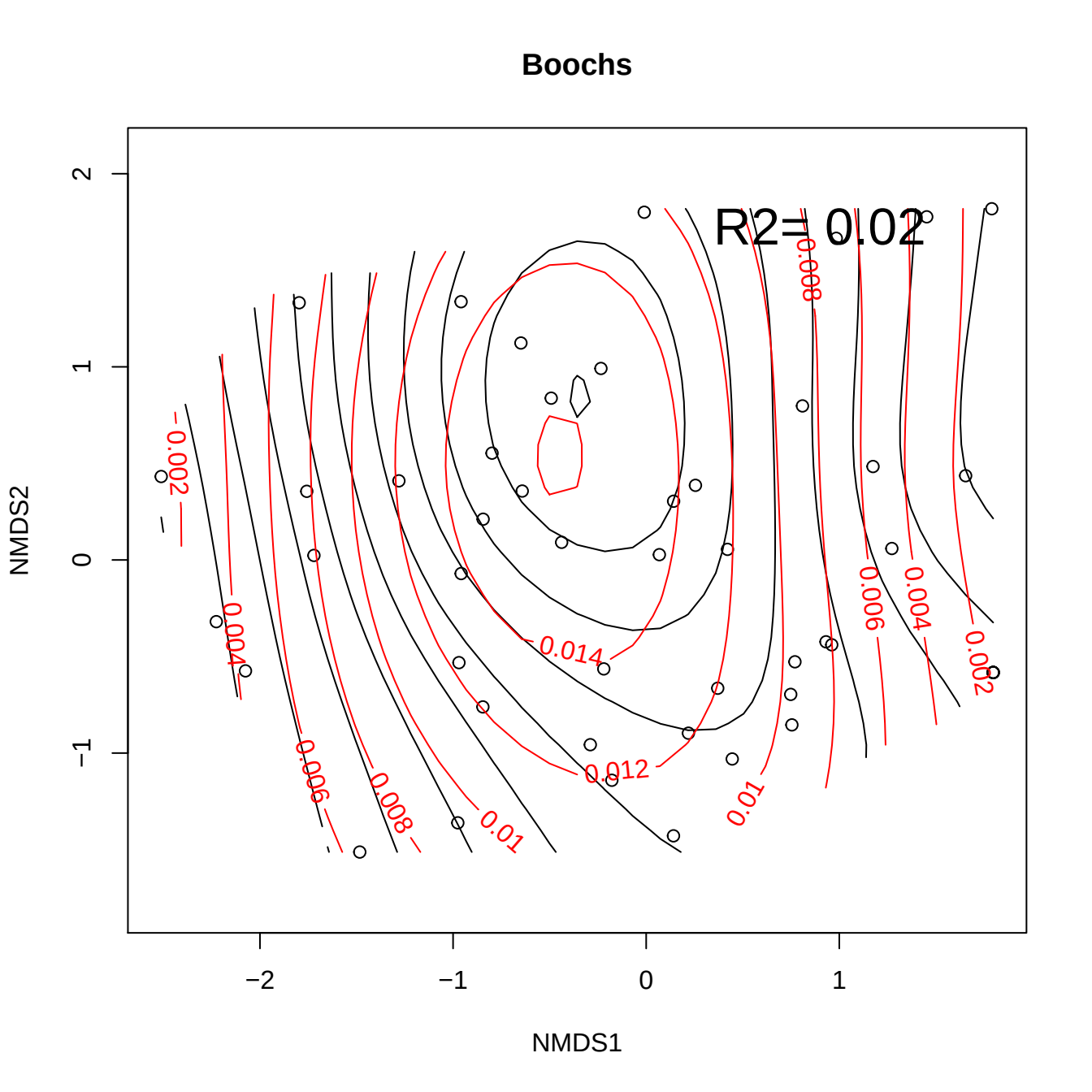

GMI1
R2= 0.25
1.7
1.6
1.8
2.2
2.1
2
1.9
1.8
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

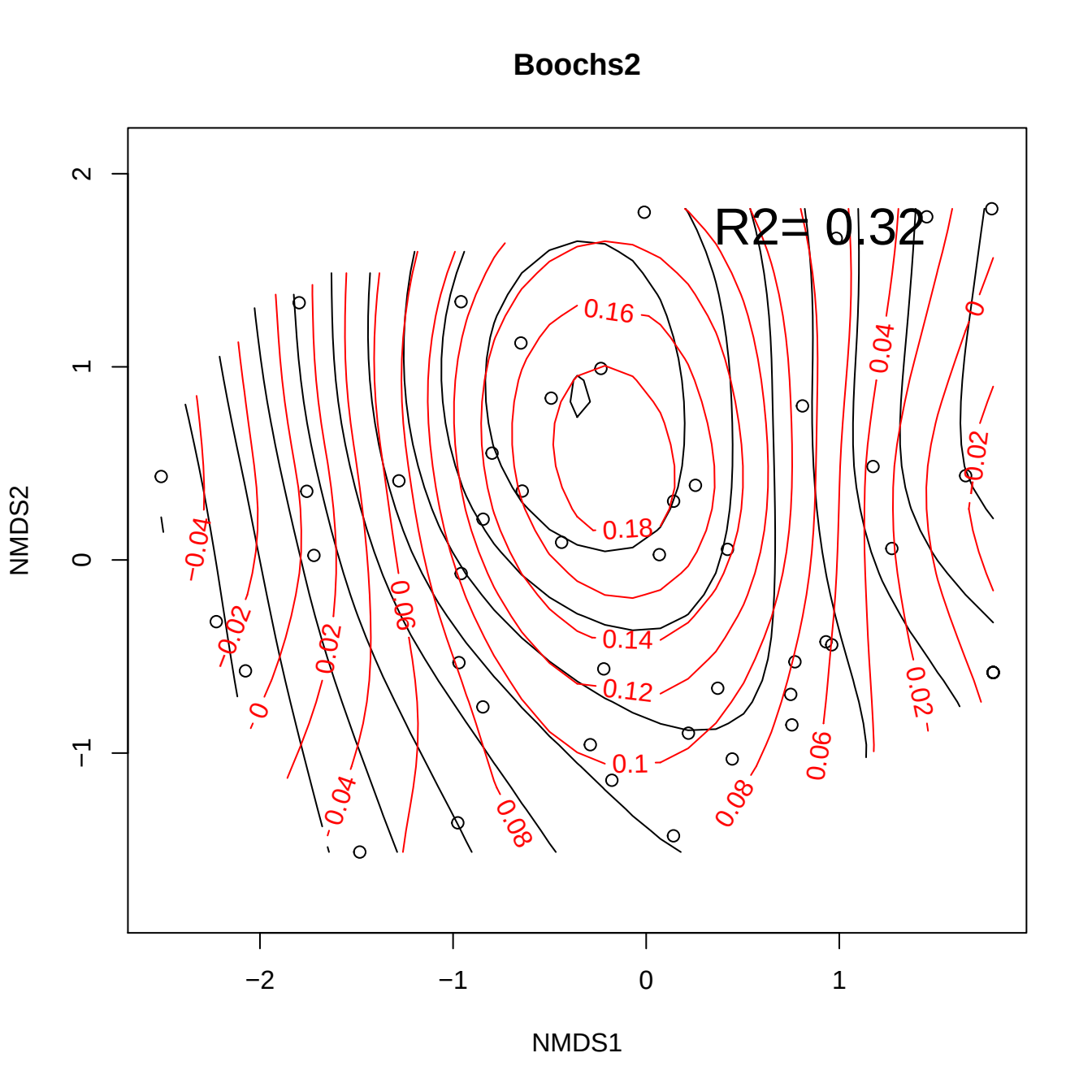

GMI2
R2= 0.02
1.244
1.242
1.24
1.238
1.236
1.234
1.232
1.23
1.228
1.226
NMDS1
NMDS2
−2
−1
0
1
2

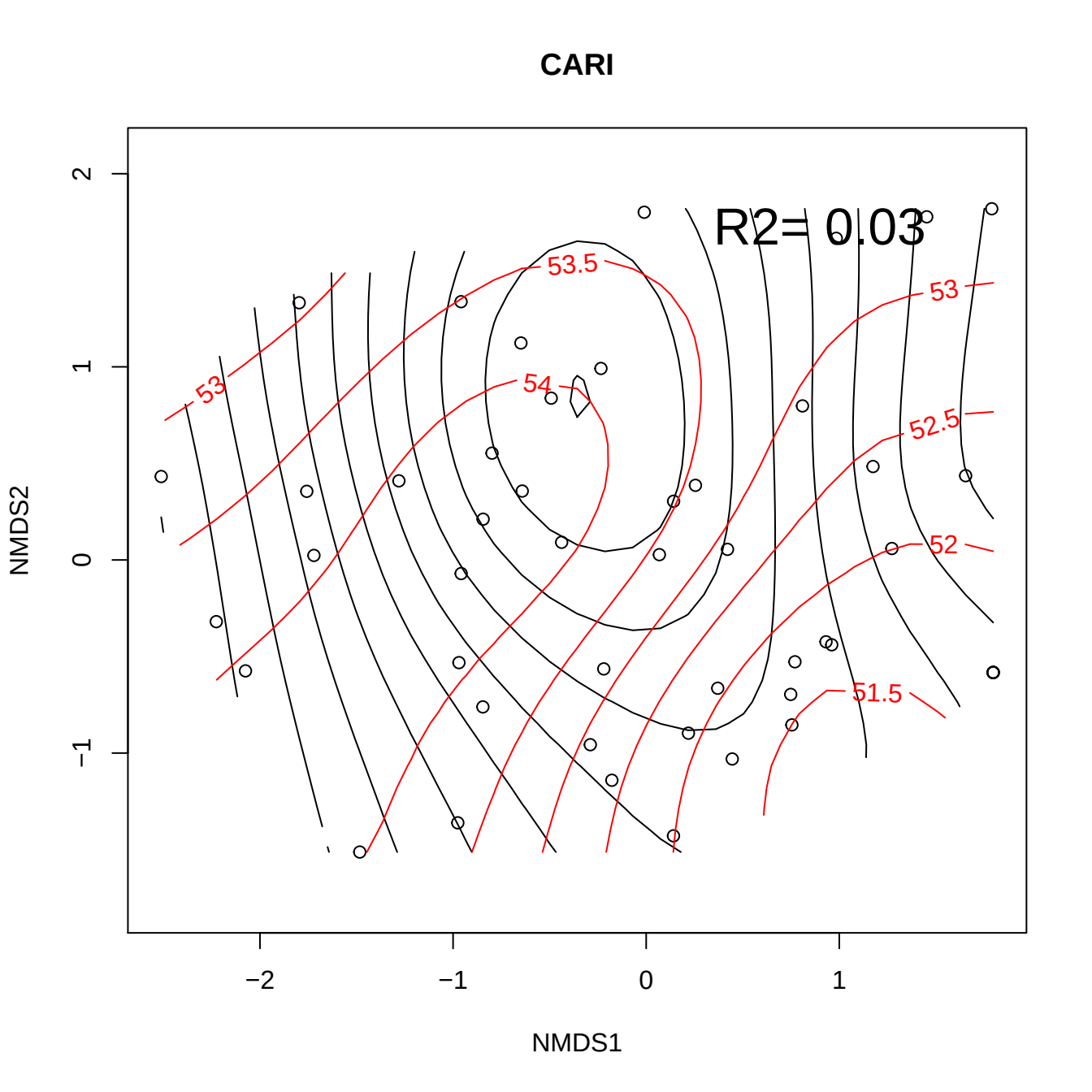

MCARI
R2= 0
0.9748025
0.974802
0.9748015
0.974801
0.9748005
0.9748
0.9747995
NMDS1
NMDS2
−2
−1
0
1
2

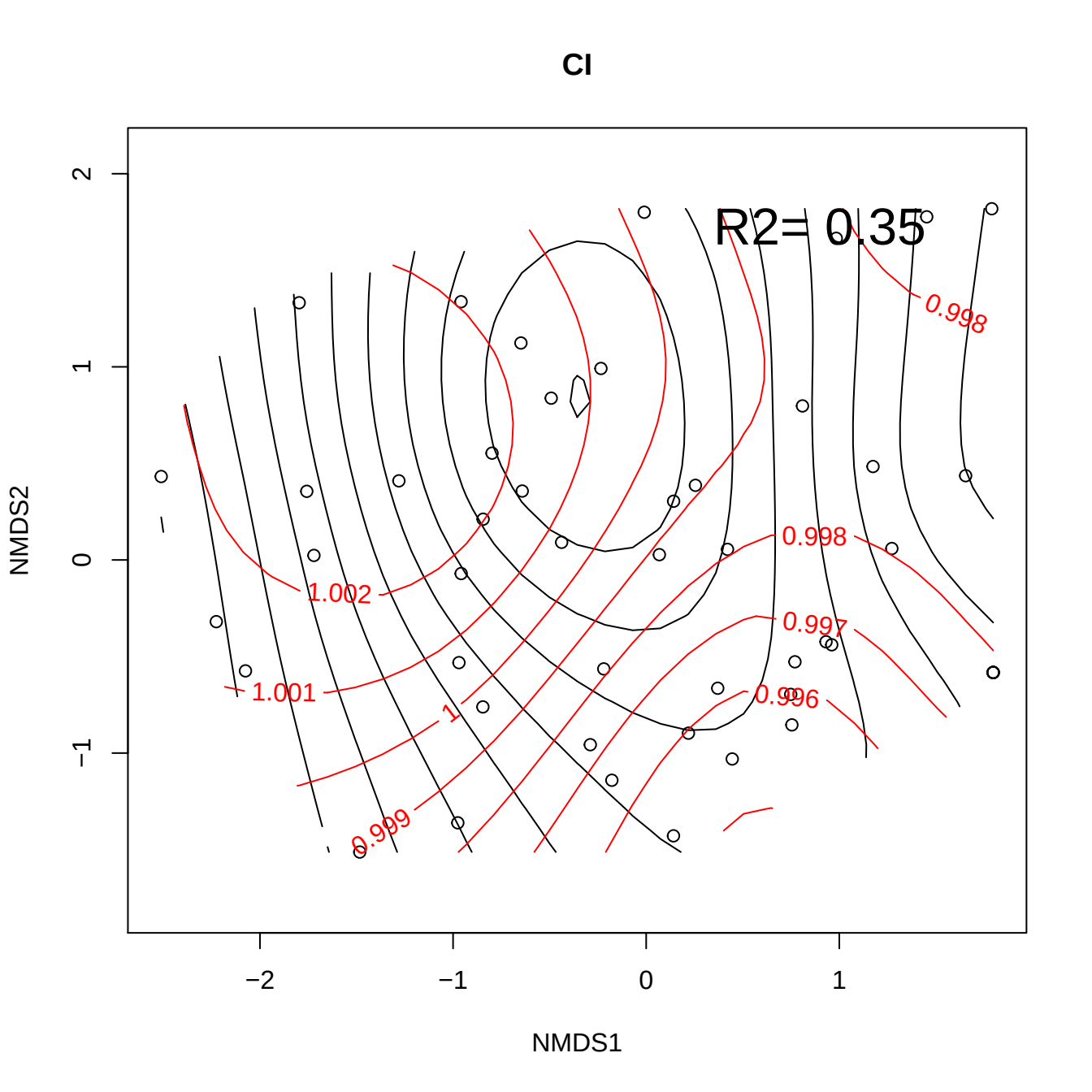

TVI
R2= 0
NMDS1
NMDS2
−2
−1
0
1
2
341.091
341.09
341.089
341.0895
341.0885
341.088
341.0875
341.087
341.0865
341.0905

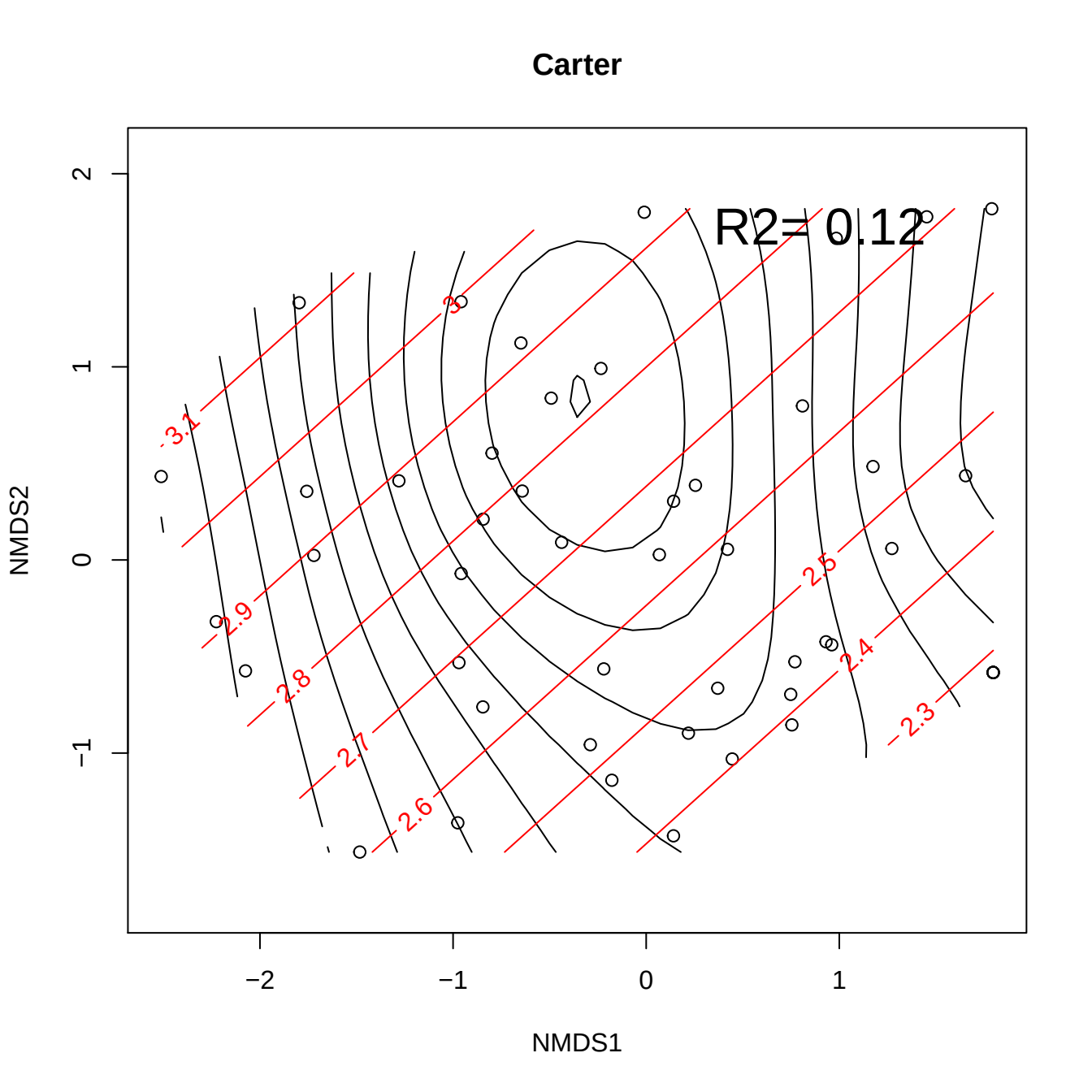

Vogelmann4
R2= 0.16
−0.026
−0.025
−0.024
−0.027
−0.028
−0.029
−0.03
−0.031
−0.027
−0.028
NMDS1
NMDS2
−2
−1
0
1
2

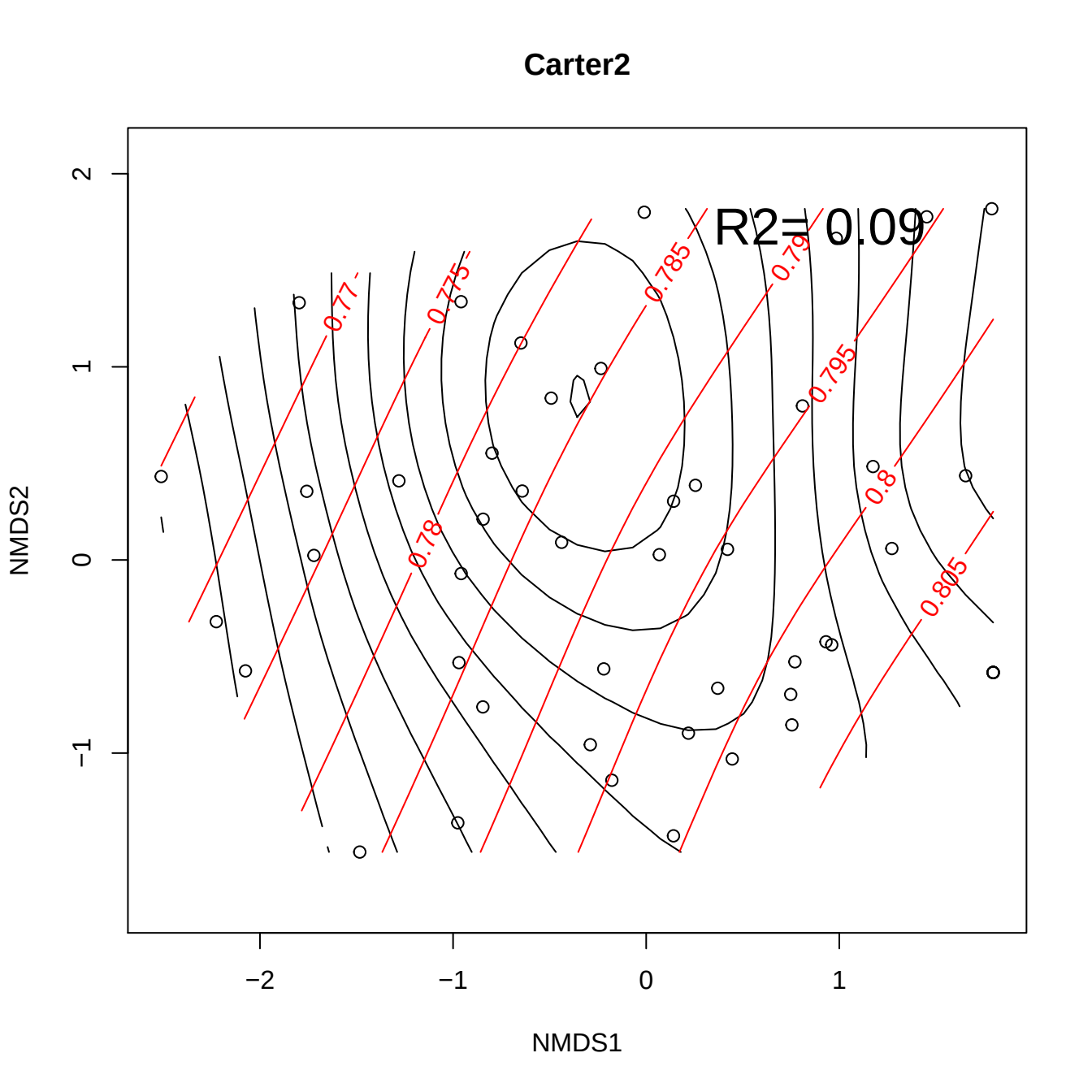

Boochs
R2= 0.02
NMDS1
NMDS2
−2
−1
0
1
2
0.002
0.004
0.006
0.008
0.01
0.012
0.014
0.008
0.006
0.004
0.002
0.01

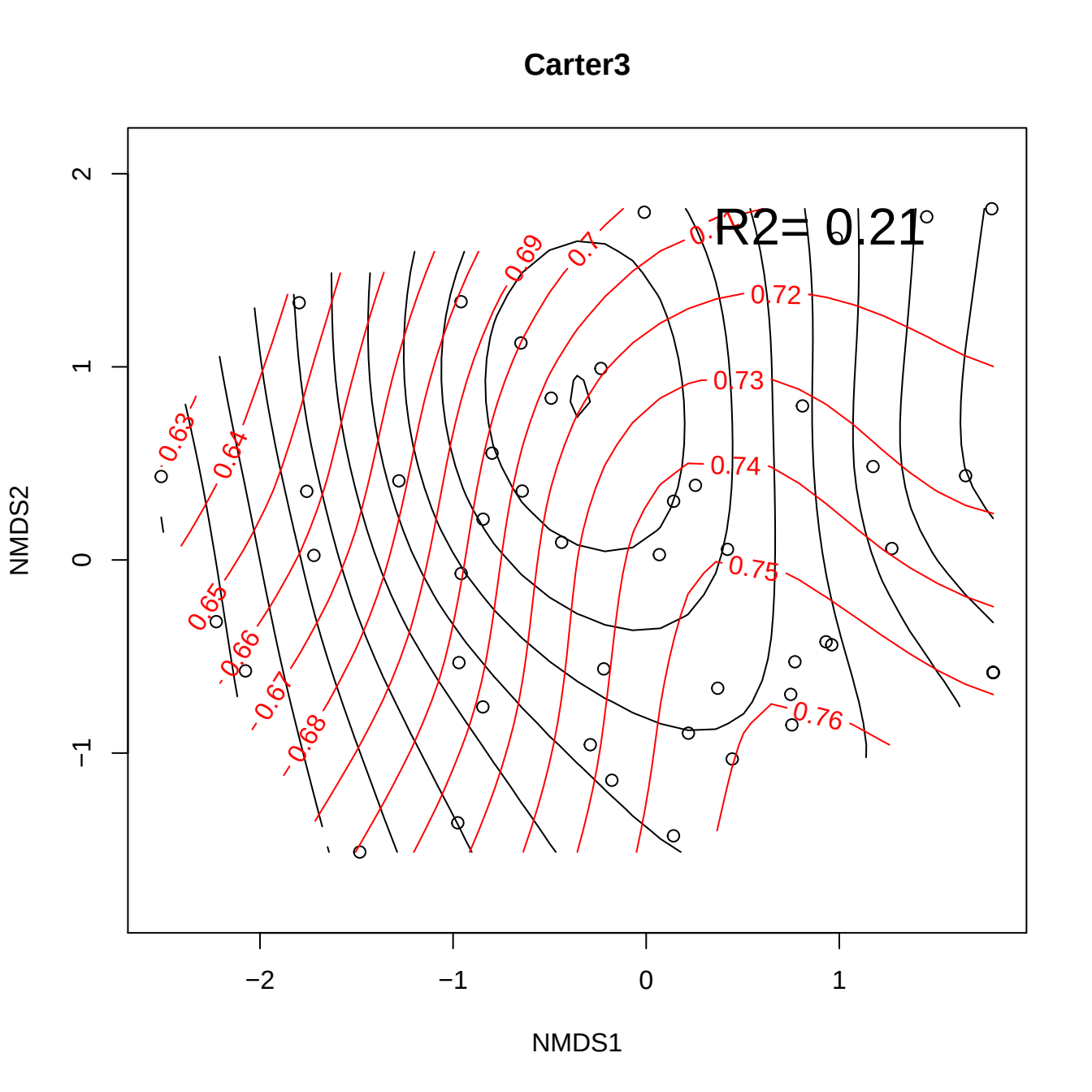

Boochs2
R2= 0.32
NMDS1
NMDS2
−2
−1
0
1
2
0.16
0.18
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04

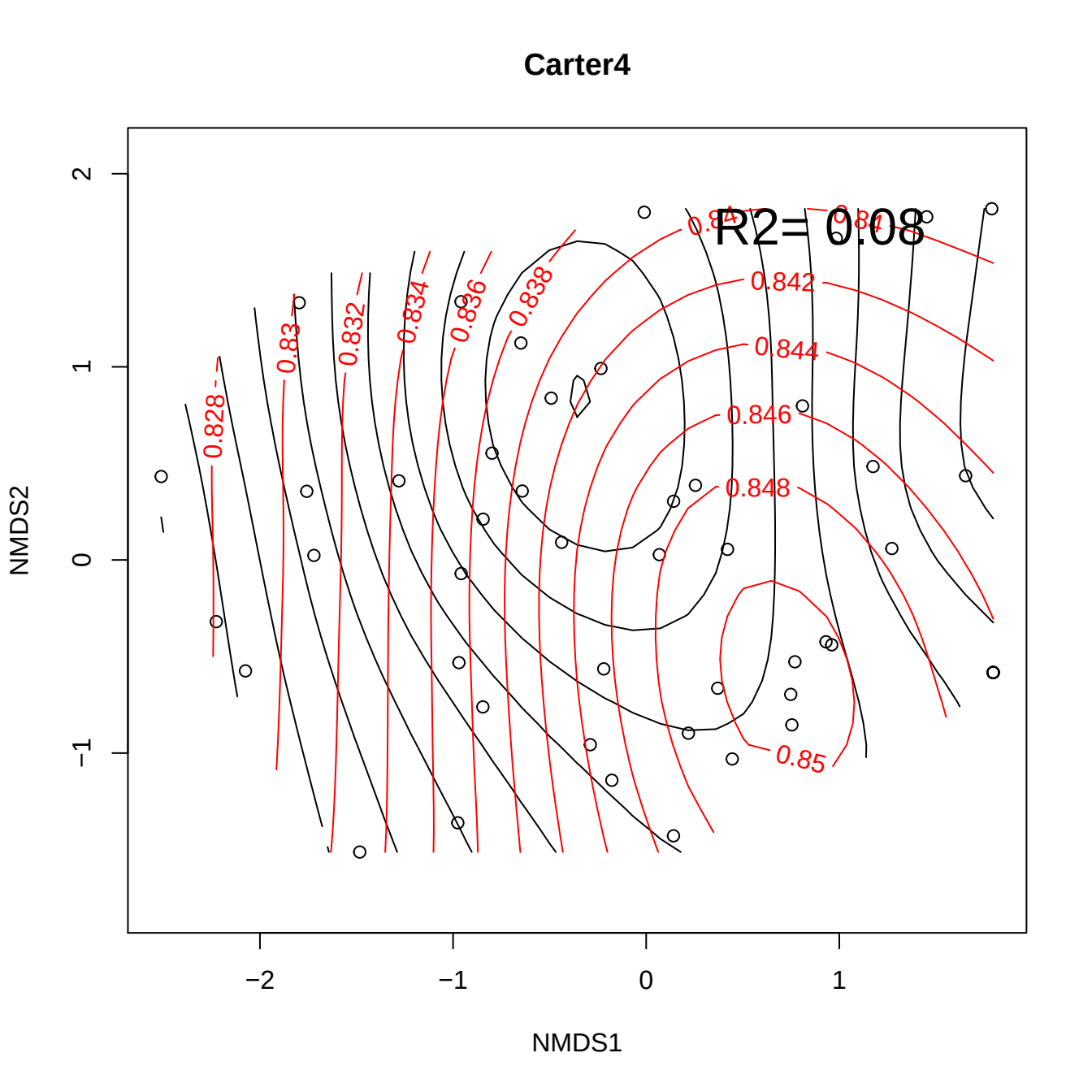

CARI
R2= 0.03
53.5
53
54
53
52.5
52
51.5
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

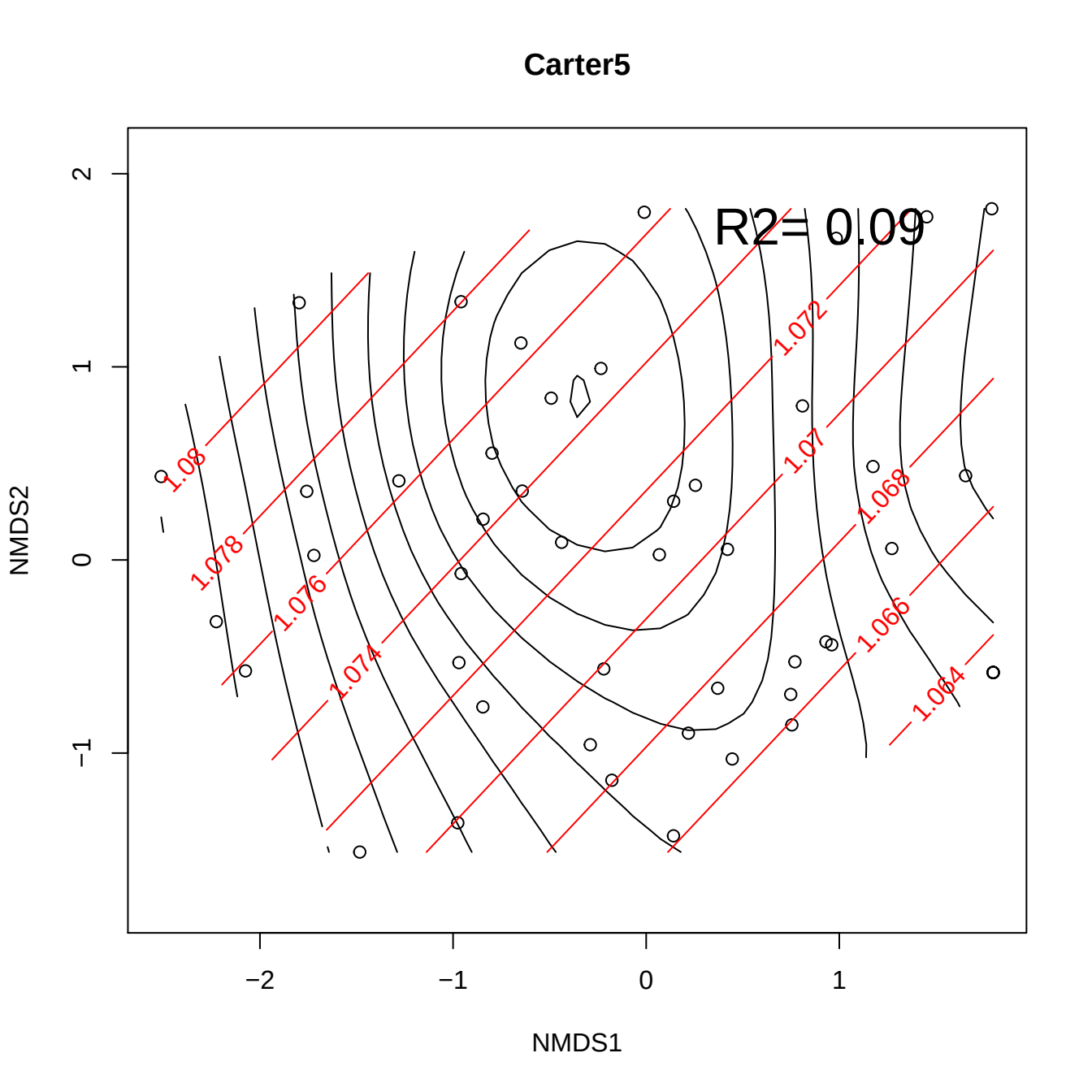

CI
R2= 0.35
0.998
0.998
1.002
0.997
1.001
0.996
1
0.999
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

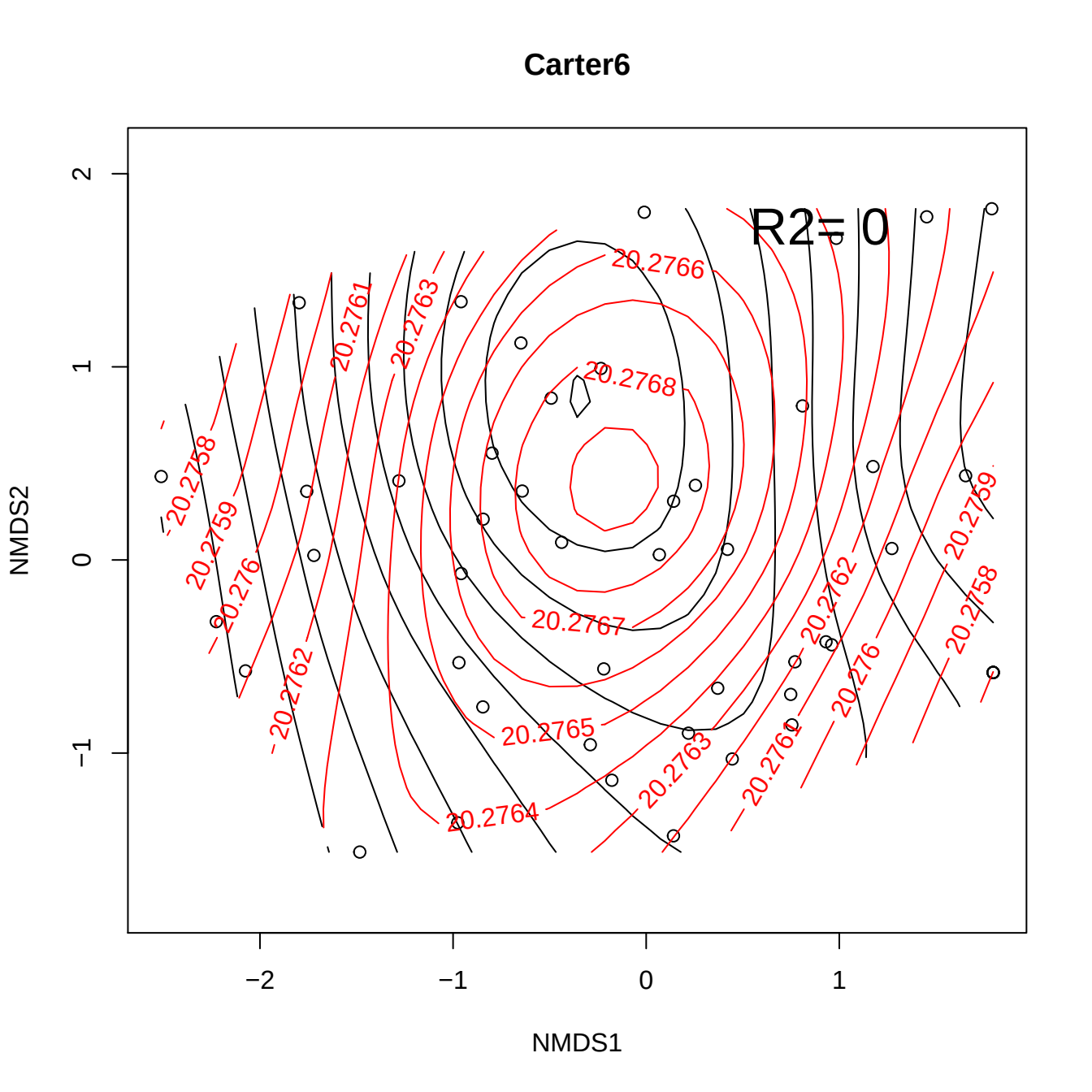

Carter
R2= 0.12
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

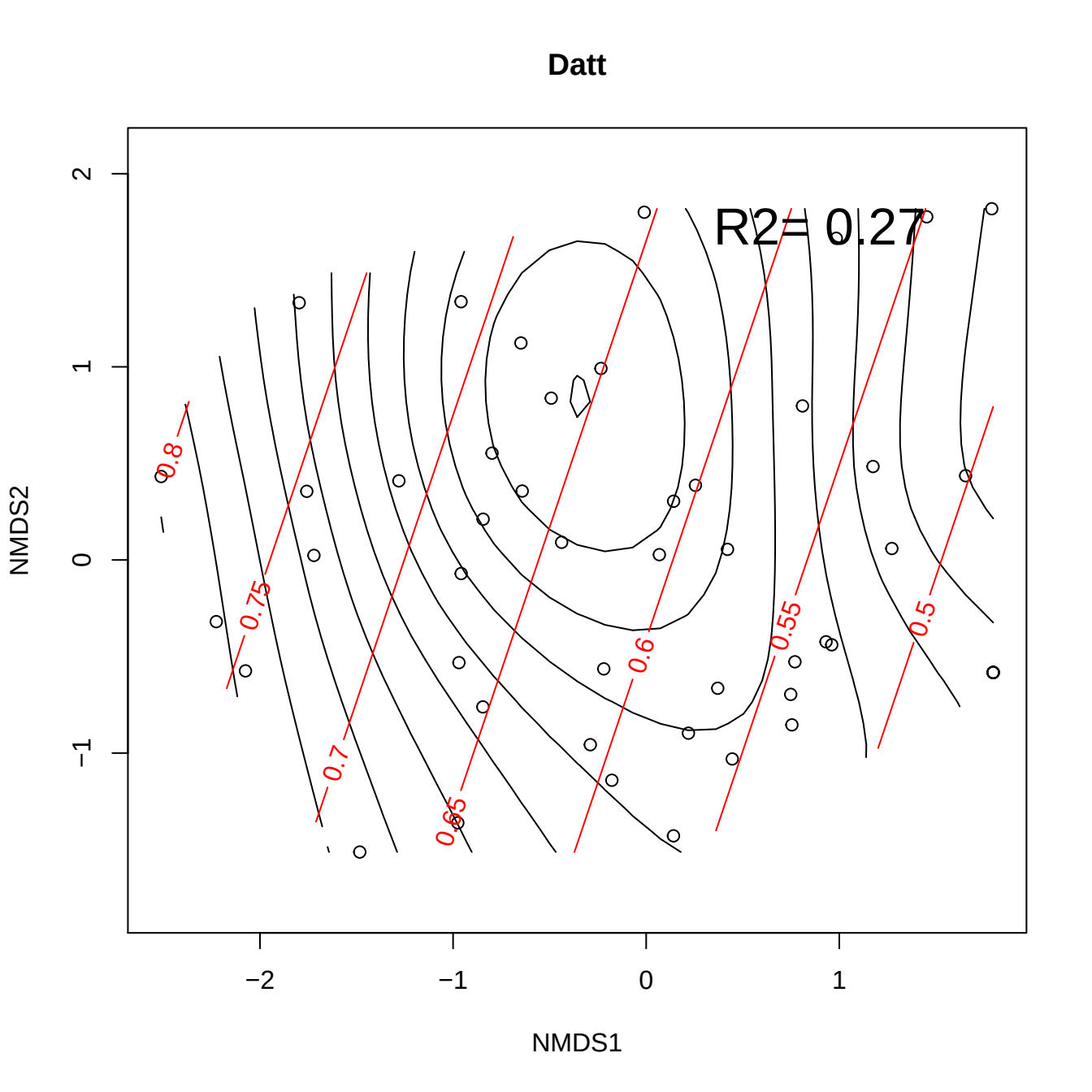

Carter2
R2= 0.09
0.77
0.775
0.78
0.785
0.79
0.795
0.8
0.805
NMDS1
NMDS2
−2
−1
0
1
2

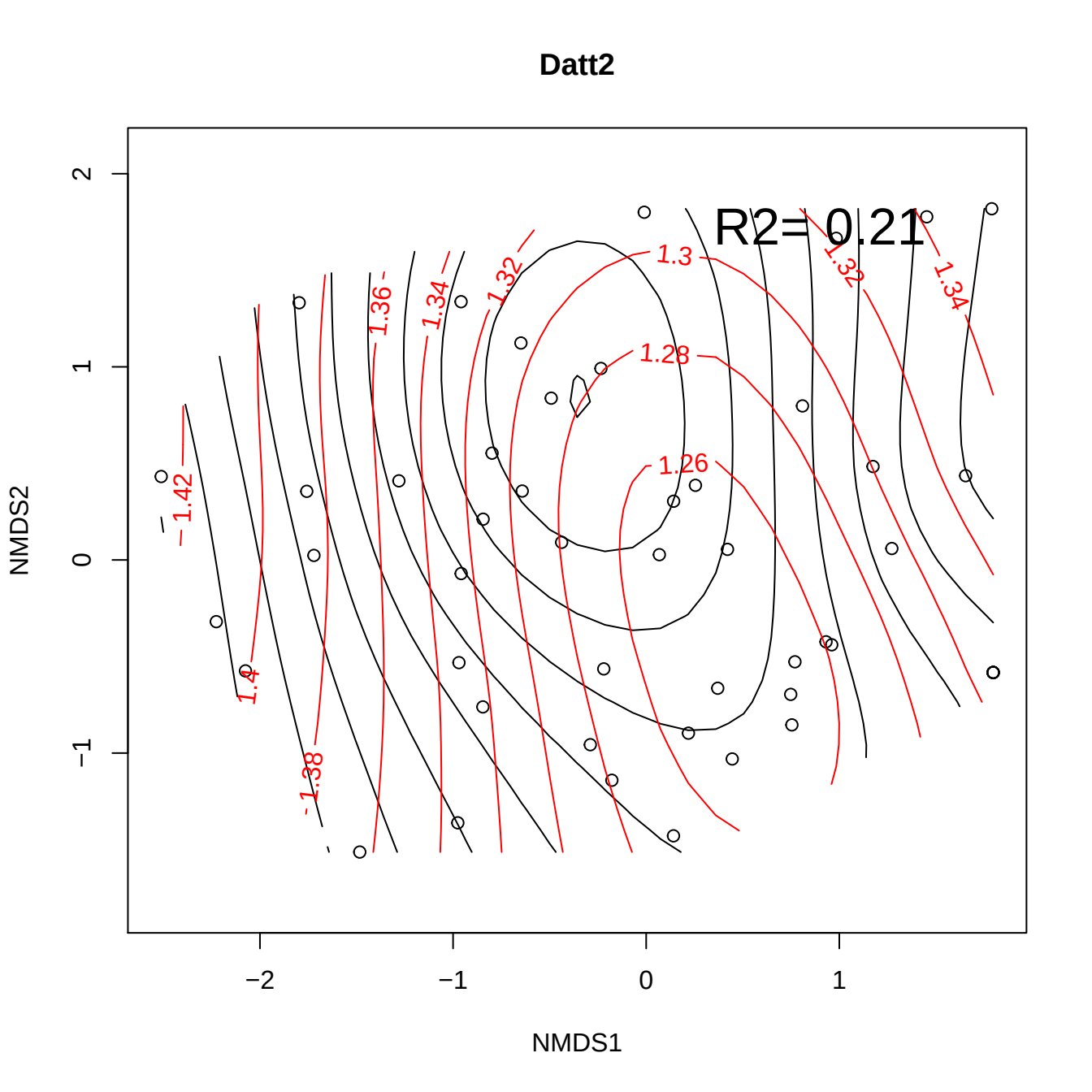

Carter3
R2= 0.21
0.63
0.64
0.65
0.66
0.67
0.68
0.69
0.7
0.72
0.73
0.74
0.75
0.76
NMDS1
NMDS2
−2
−1
0
1
2

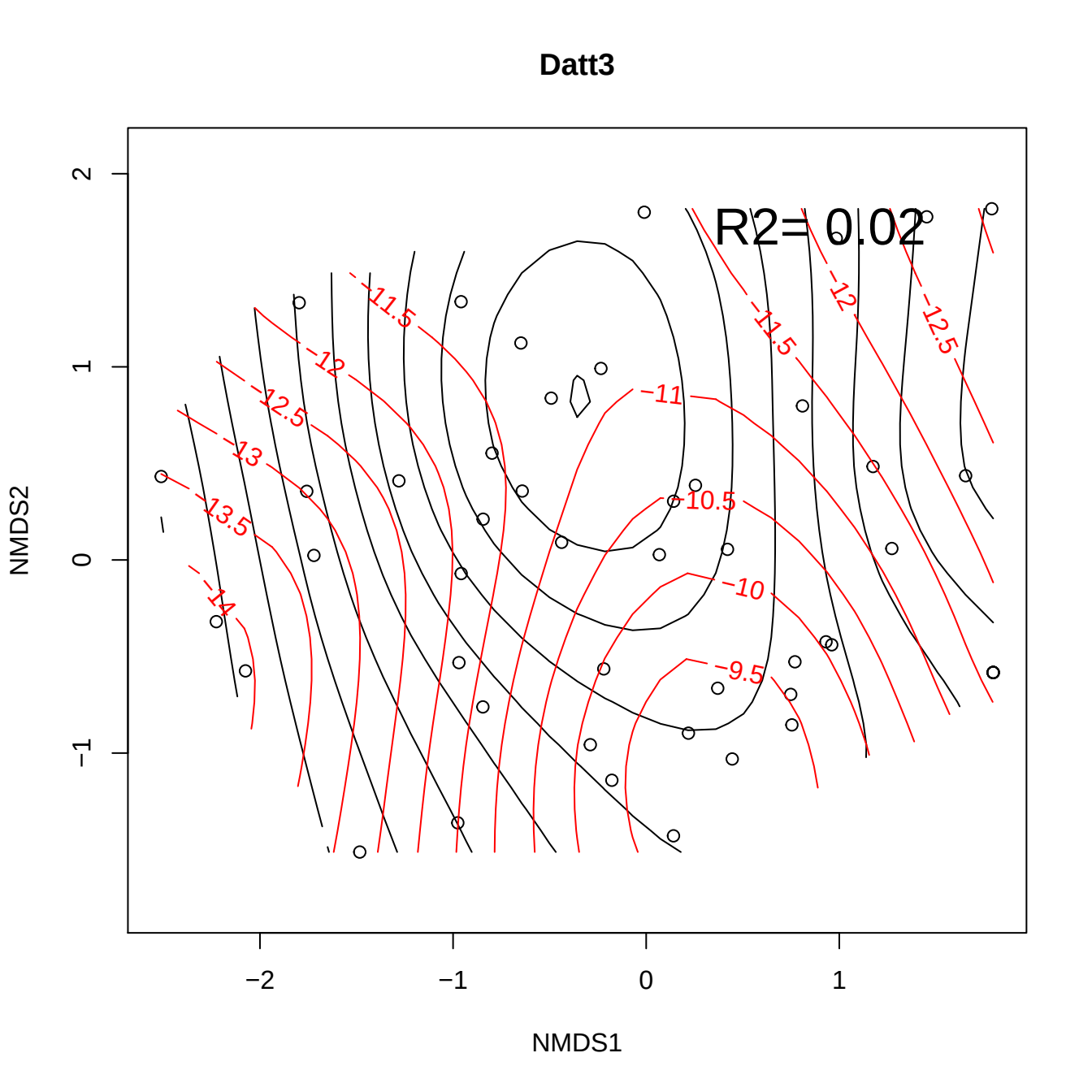

Carter4
R2= 0.08
NMDS1
NMDS2
−2
−1
0
1
2
0.828
0.83
0.832
0.834
0.836
0.838
0.84
0.842
0.844
0.846
0.848
0.85

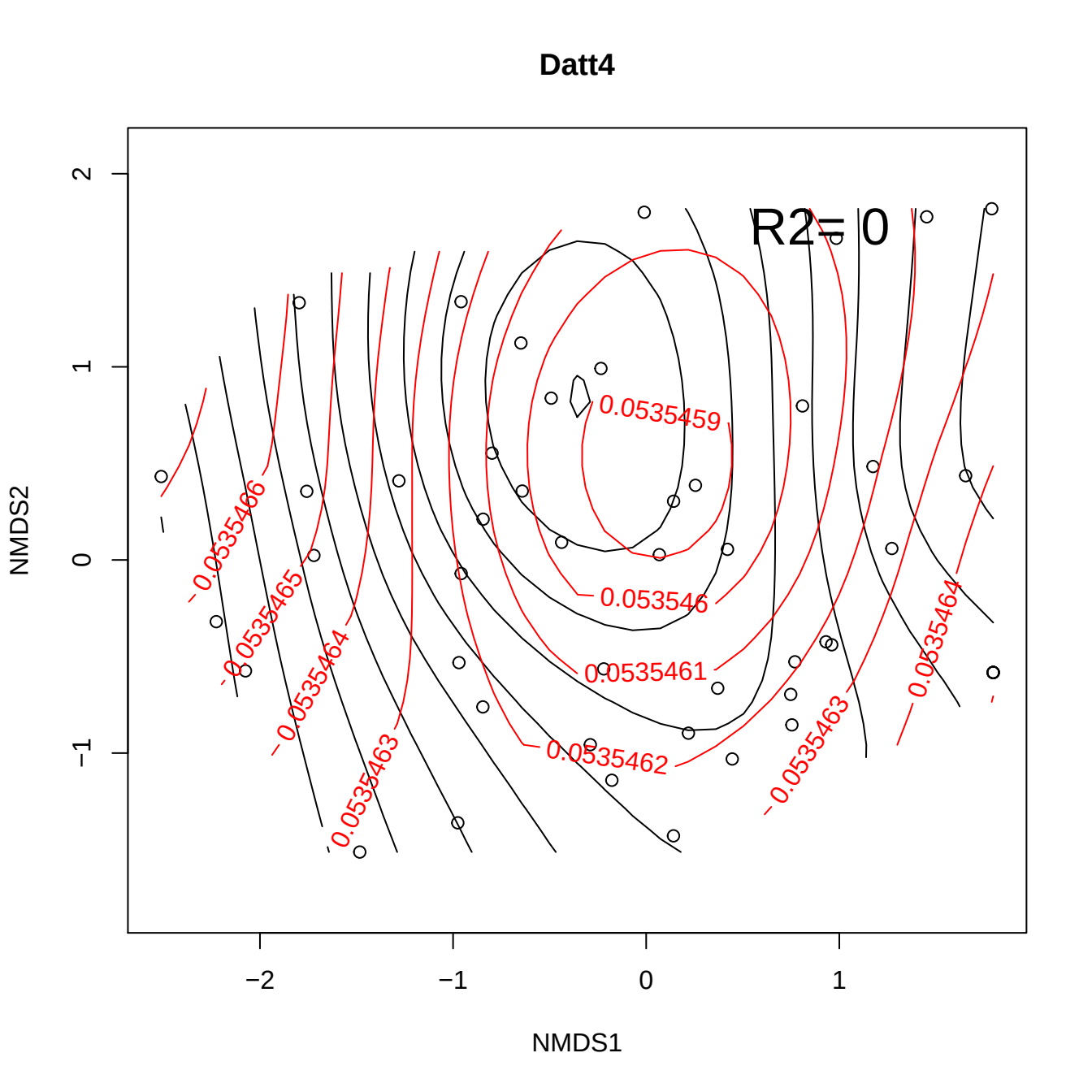

Carter5
R2= 0.09
1.08
1.078
1.076
1.074
1.072
1.07
1.068
1.066
1.064
NMDS1
NMDS2
−2
−1
0
1
2

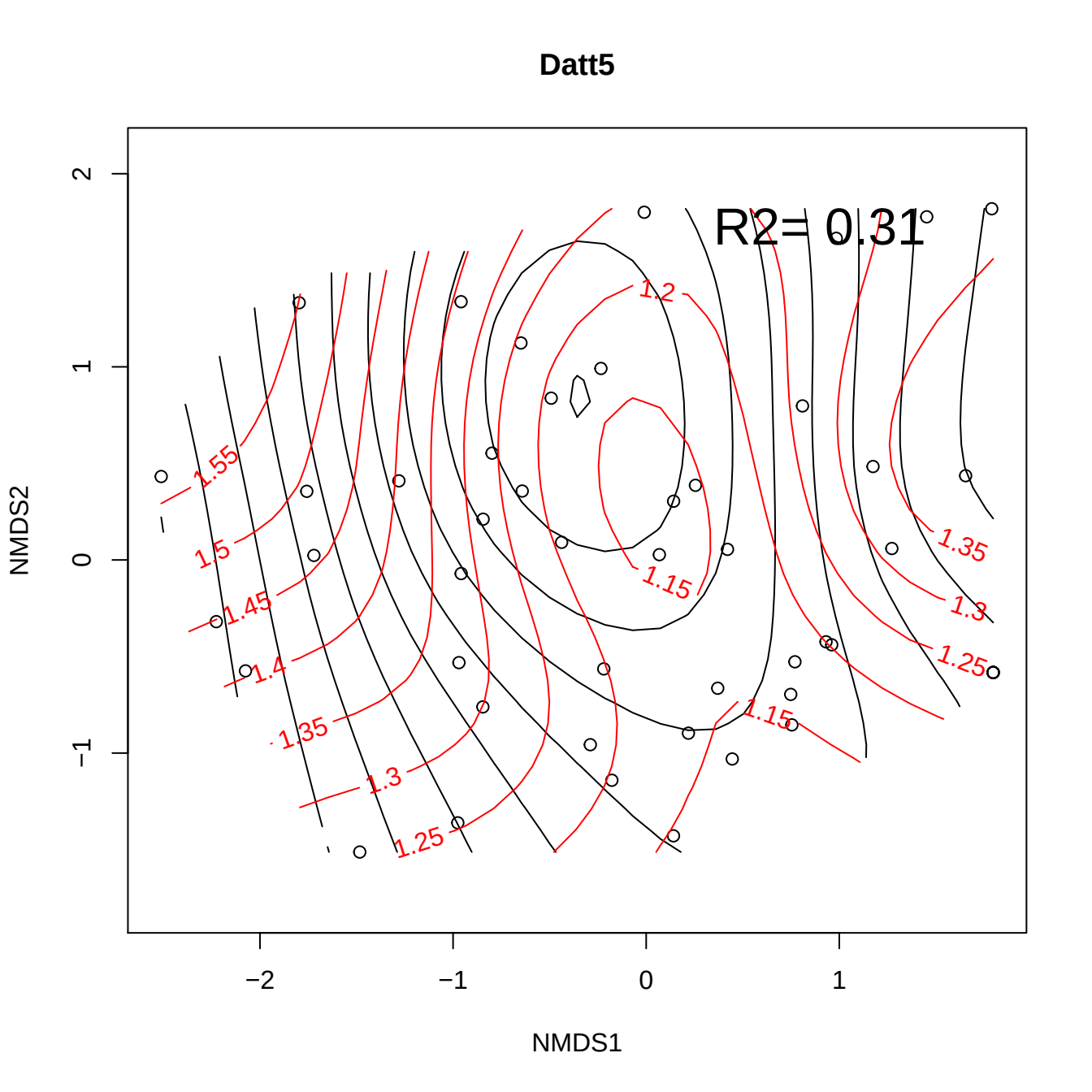

Carter6
R2= 0
20.2766
20.2768
20.2767
20.2765
20.2764
20.2763
20.2762
20.2761
20.276
20.2759
20.2758
NMDS1
NMDS2
−2
−1
0
1
2

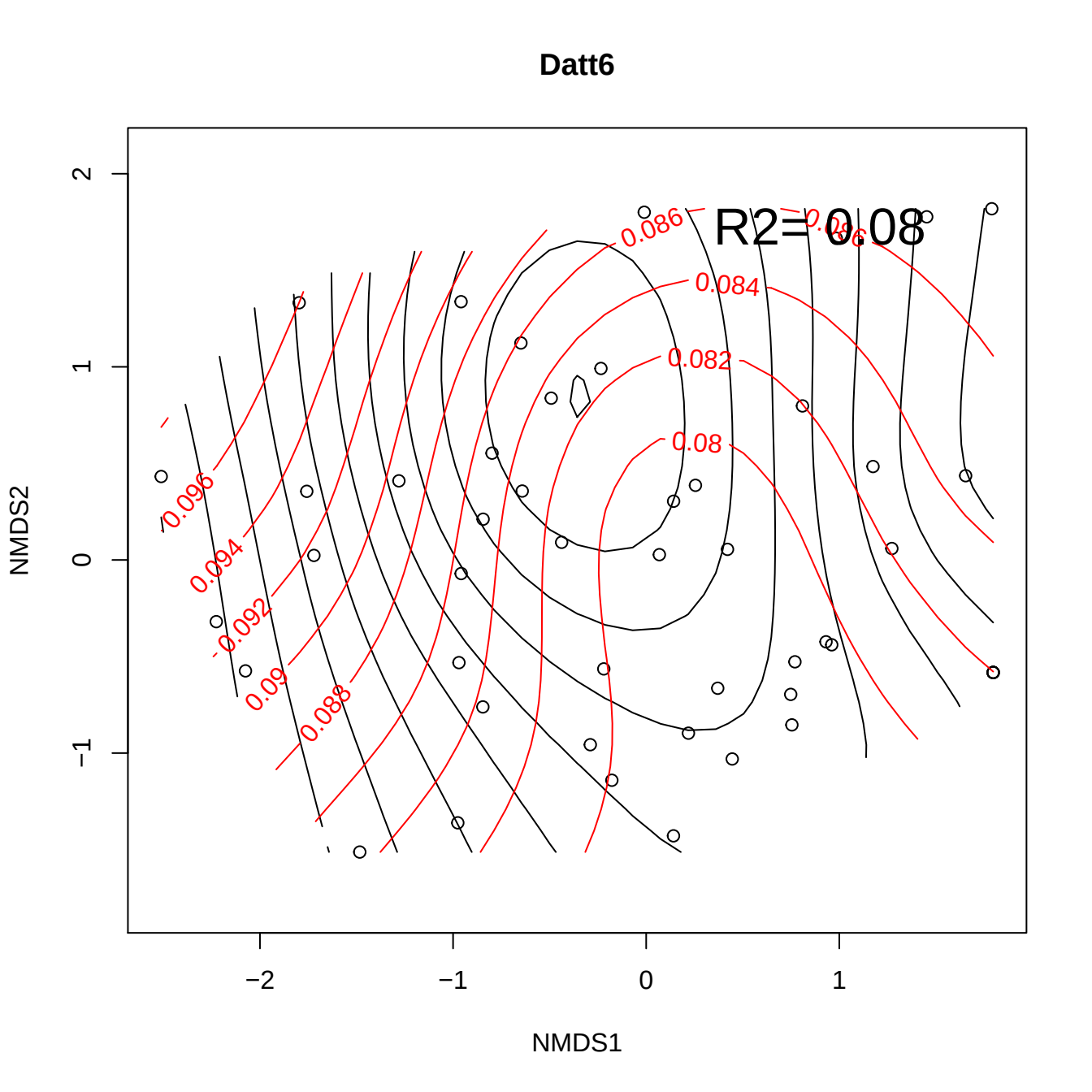

Datt
R2= 0.27
NMDS1
NMDS2
−2
−1
0
1
2
0.8
0.75
0.7
0.65
0.6
0.55
0.5

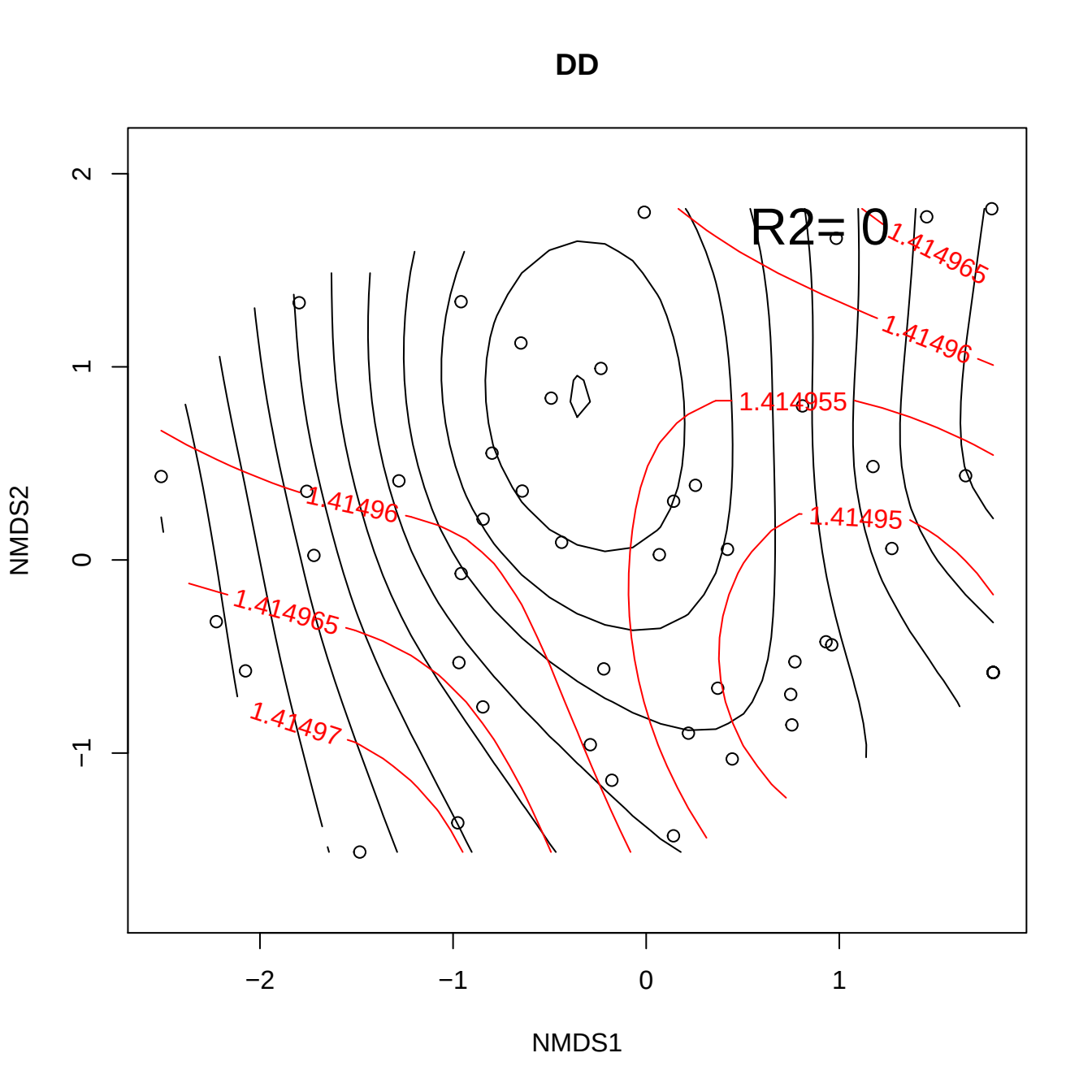

Datt2
R2= 0.21
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.32
1.34
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

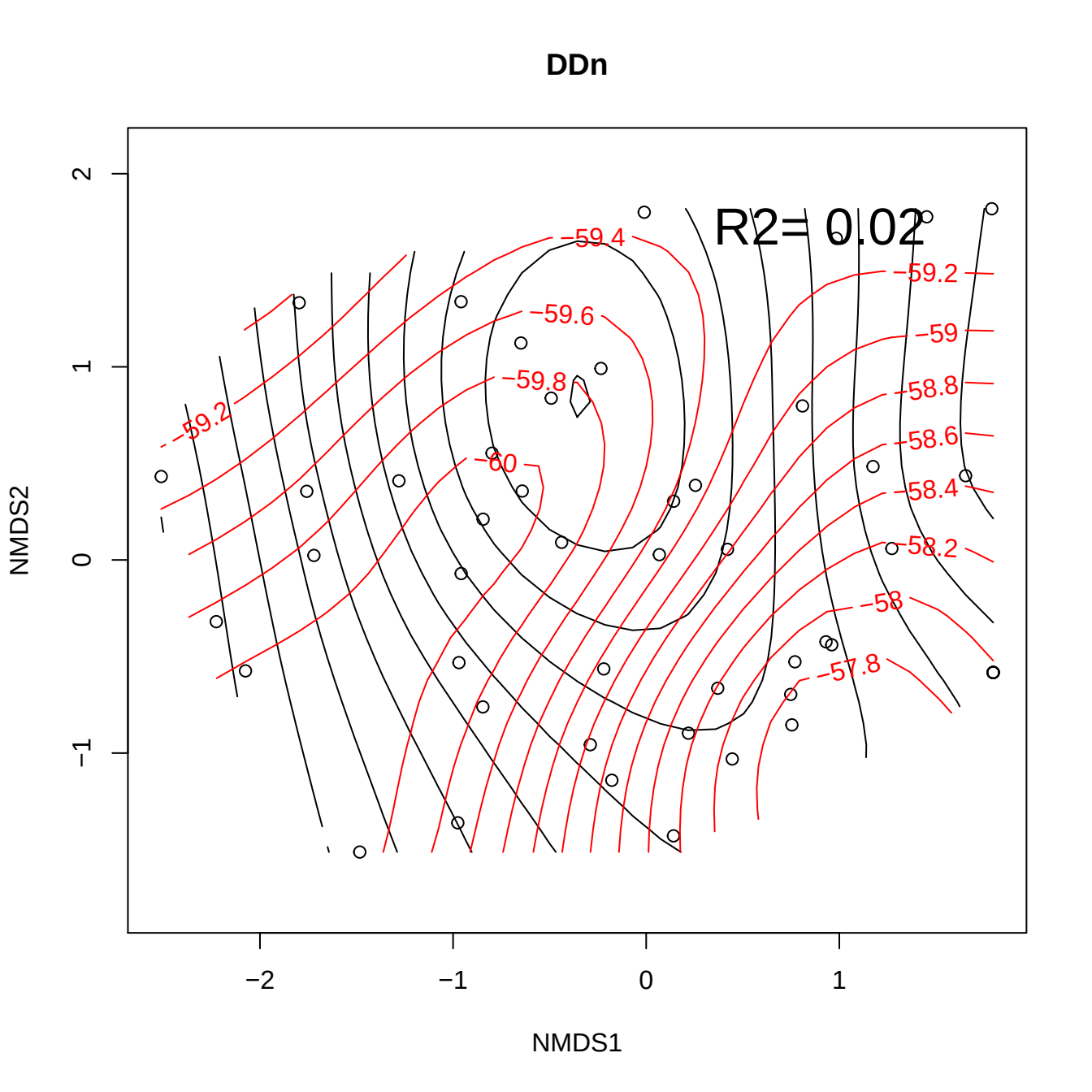

Datt3
R2= 0.02
NMDS1
NMDS2
−2
−1
0
1
2
−11.5
−12
−12.5
−13
−13.5
−14
−11
−10.5
−10
−9.5

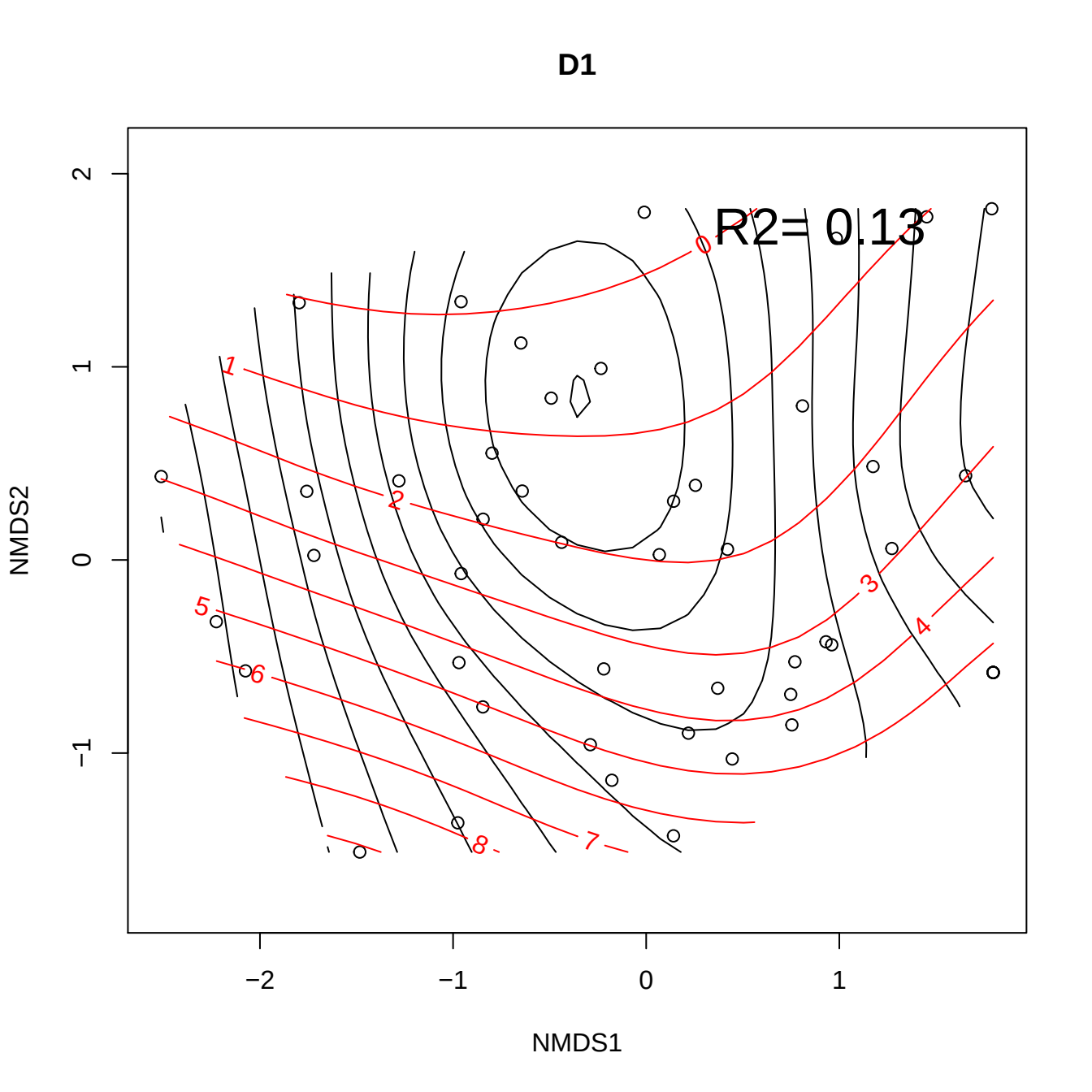

Datt4
R2= 0
0.0535459
0.053546
0.0535461
0.0535462
0.0535463
0.0535464
0.0535465
0.0535466
NMDS1
NMDS2
−2
−1
0
1
2

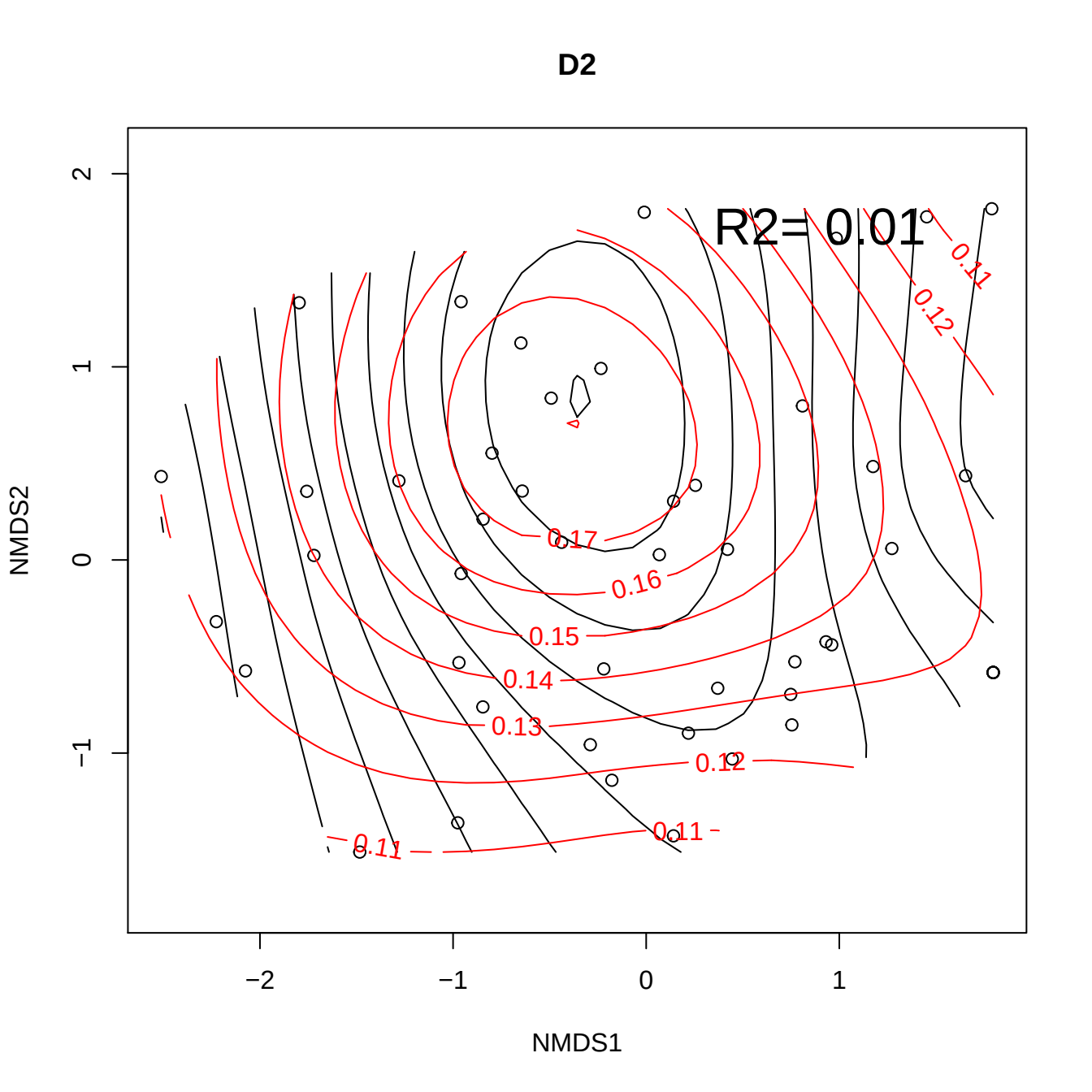

Datt5
R2= 0.31
1.55
1.5
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.15
1.35
1.3
1.25
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

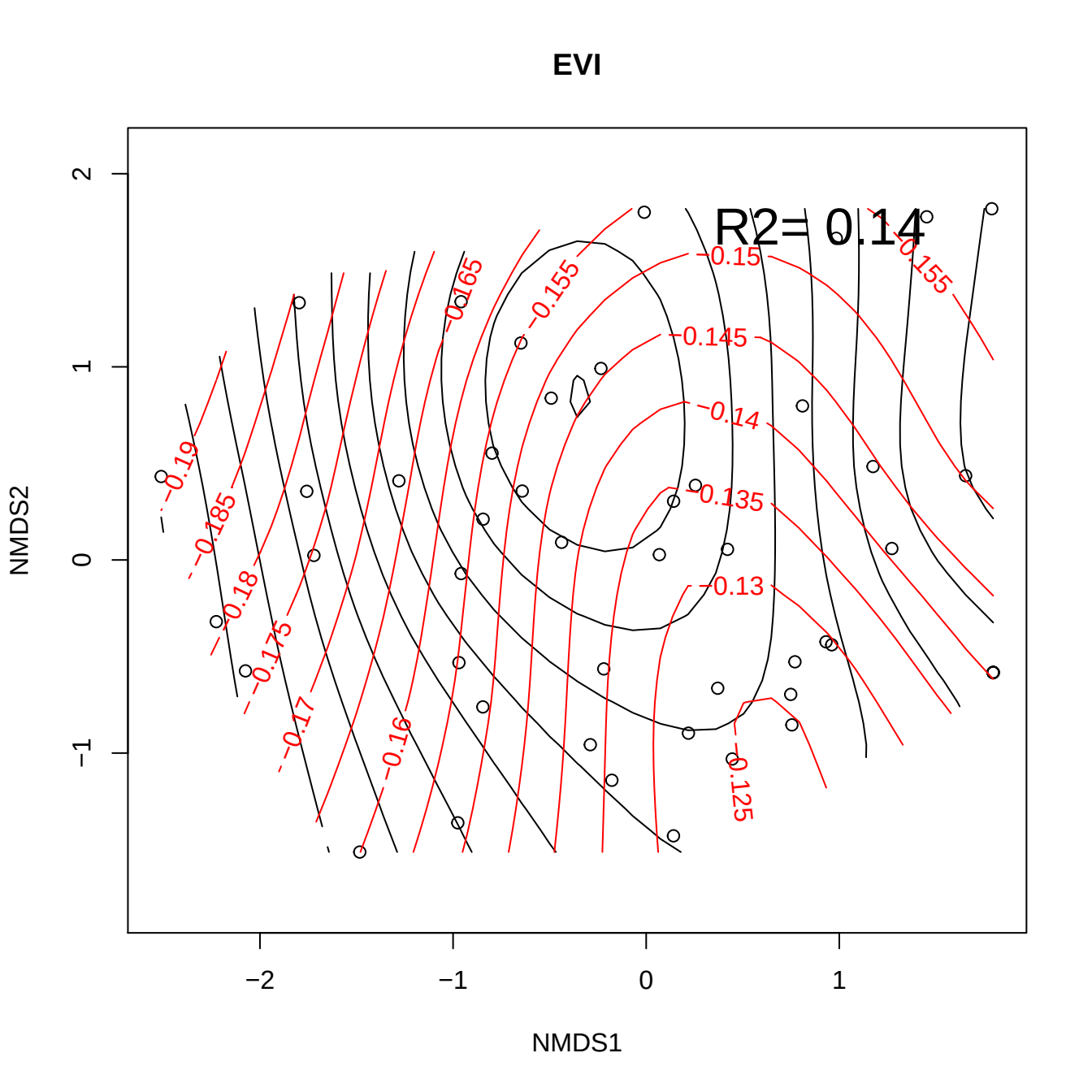

Datt6
R2=0.08
0.086
0.084
0.082
0.08
0.096
0.094
0.092
0.09
0.088
NMDS1
NMDS2
−2
−1
0
1
2

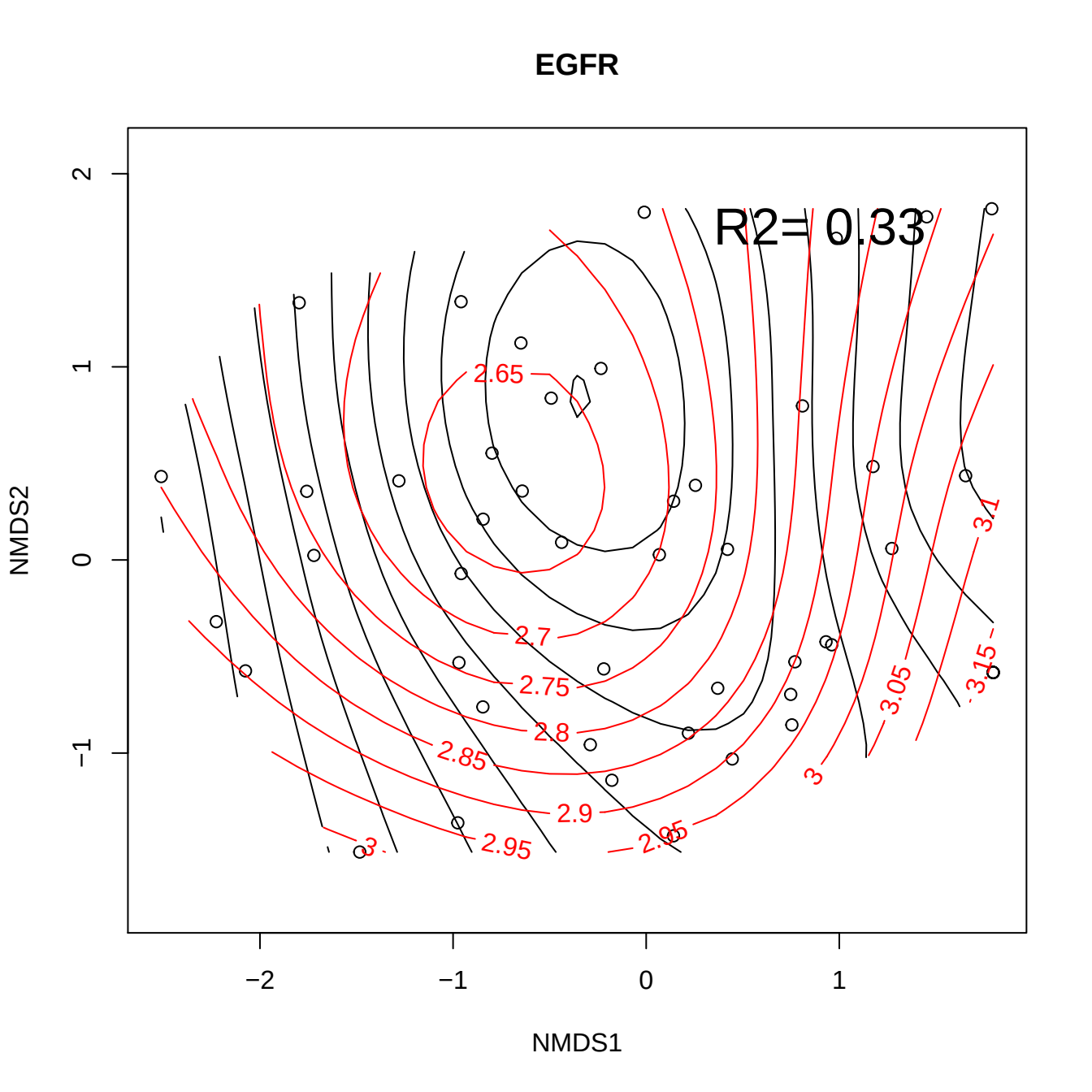

DD
R2= 0
1.414965
1.41496
1.414955
1.41496
1.41495
1.414965
1.41497
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

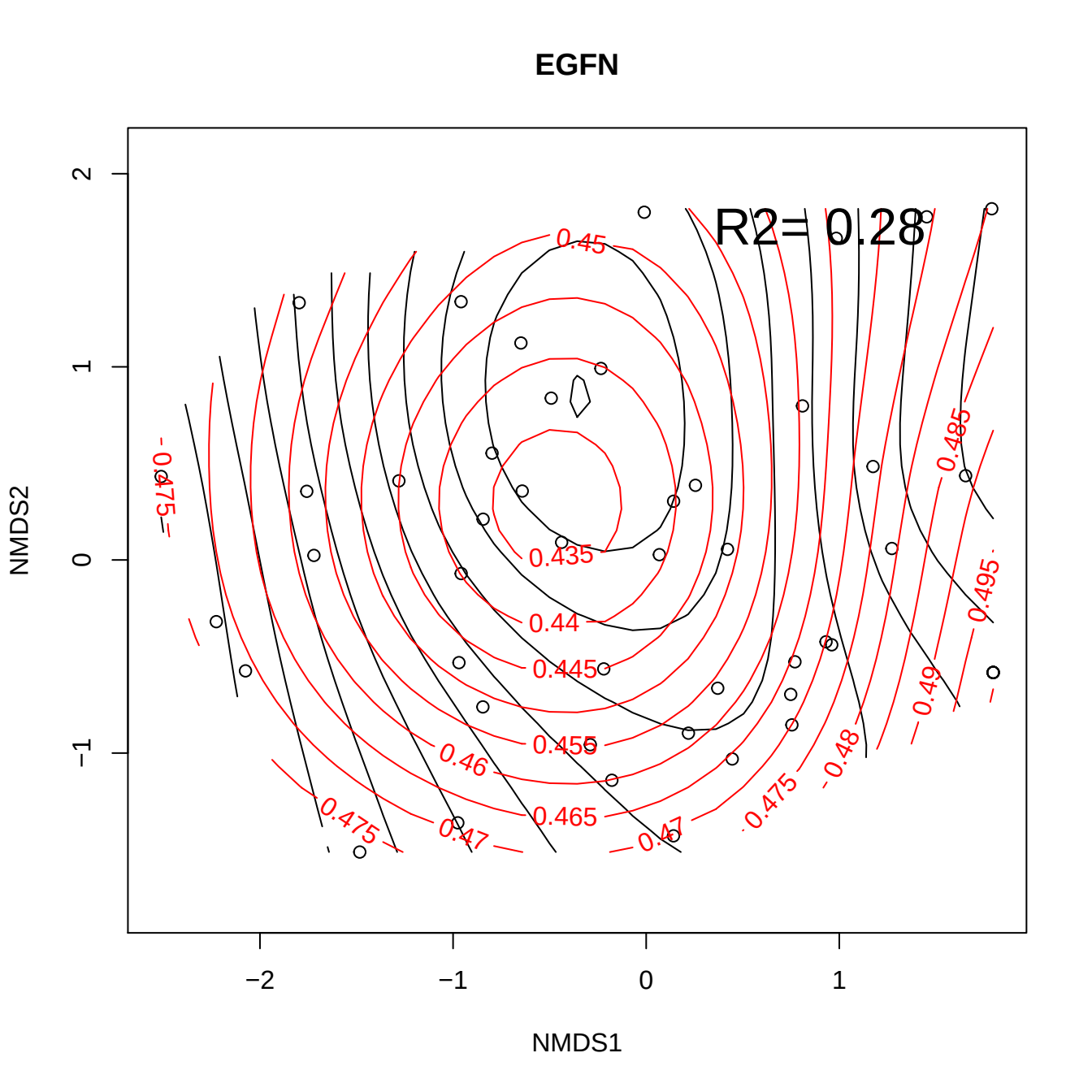

DDn
R2= 0.02
−59.4
−59.6
−59.8
−60
−59.2
−59.2
−59
−58.8
−58.6
−58.4
−58.2
−58
−57.8
NMDS1
NMDS2
−2
−1
0
1
2

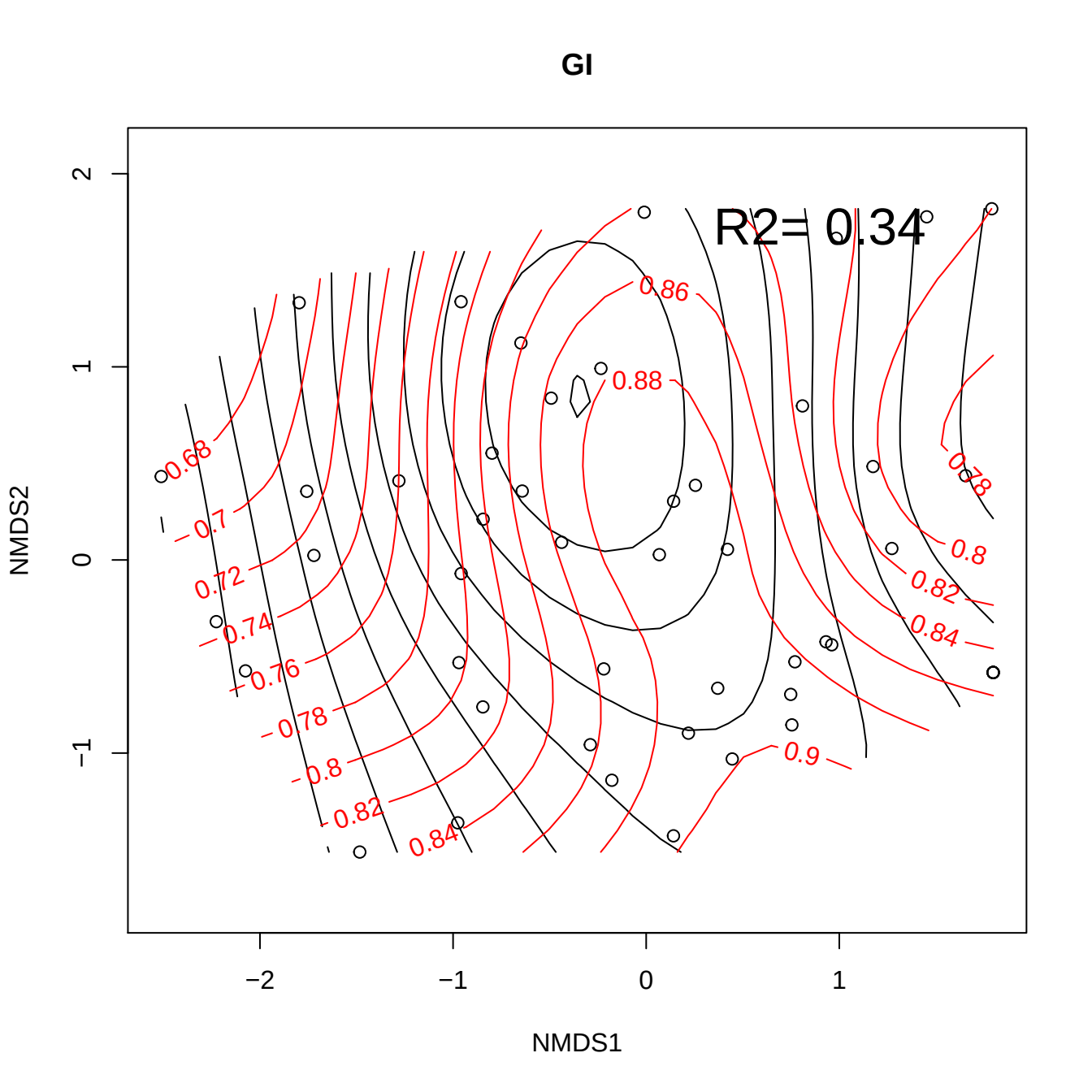

D1
R2= 0.13
NMDS1
NMDS2
−2
−1
0
1
2
0
1
2
3
4
5
6
7
8

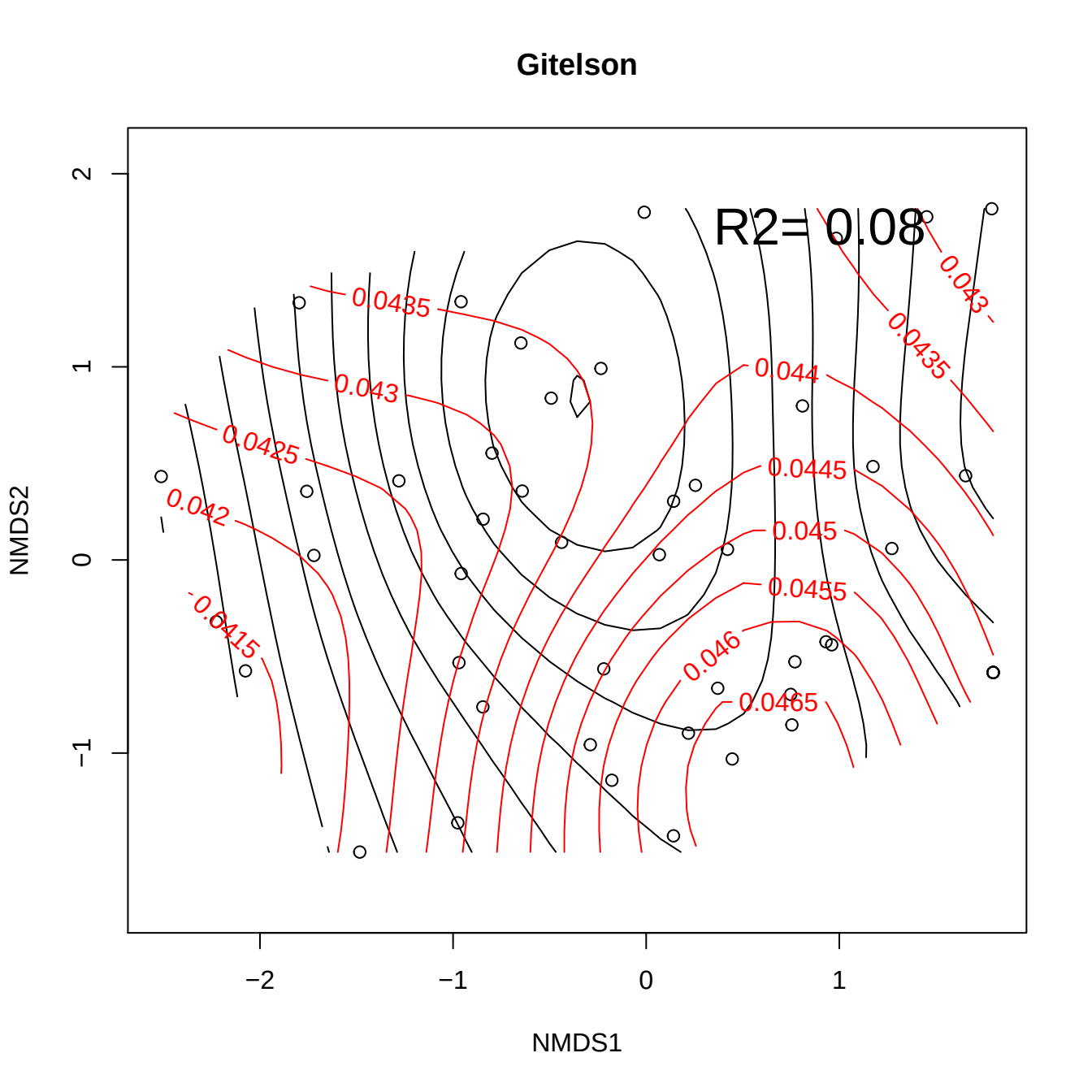

D2
R2= 0.01
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.11
0.12
0.11
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

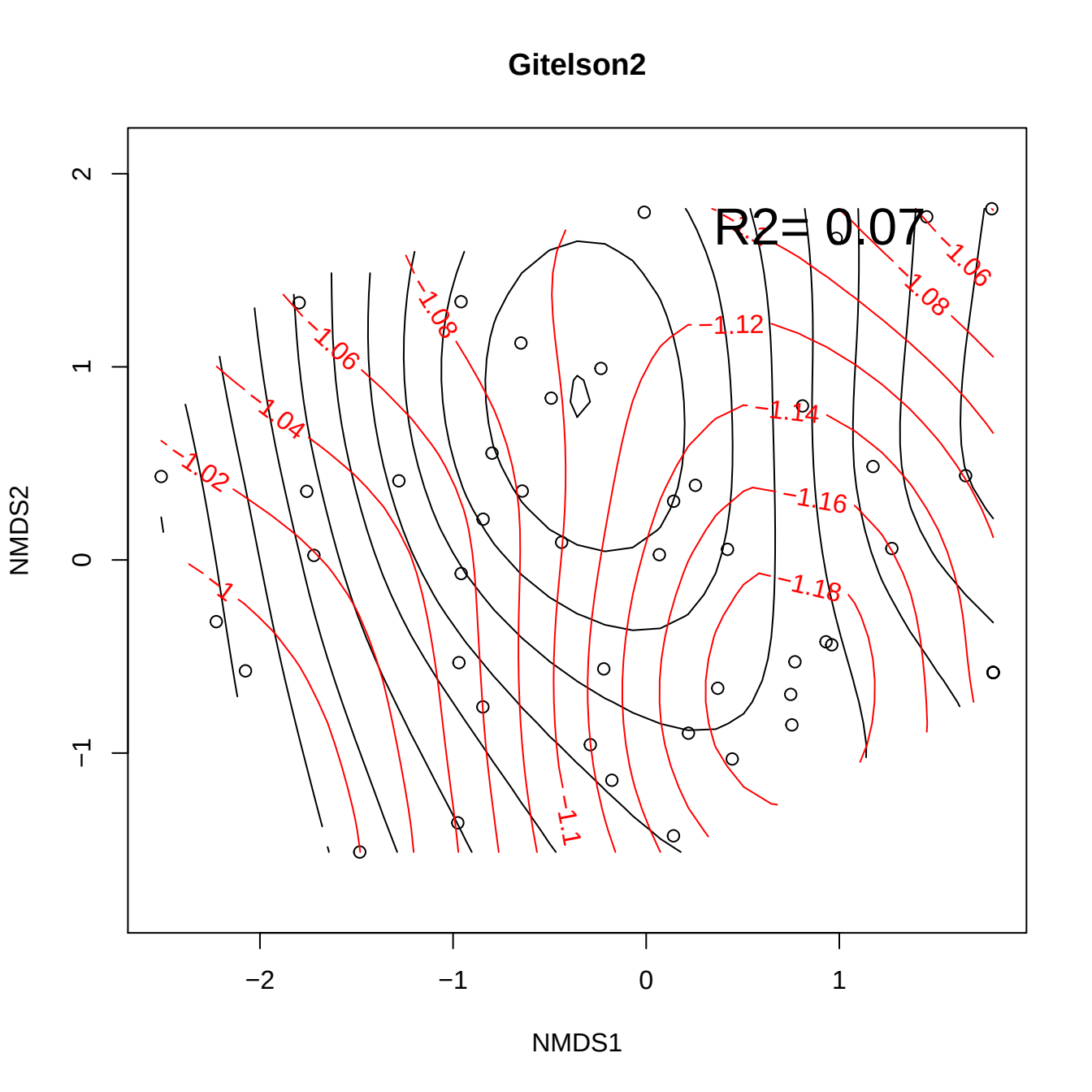

EVI
R2= 0.14
NMDS1
NMDS2
−2
−1
0
1
2
−0.19
−0.185
−0.18
−0.175
−0.17
−0.165
−0.16
−0.155
−0.15
−0.145
−0.14
−0.135
−0.13
−0.125
−0.155

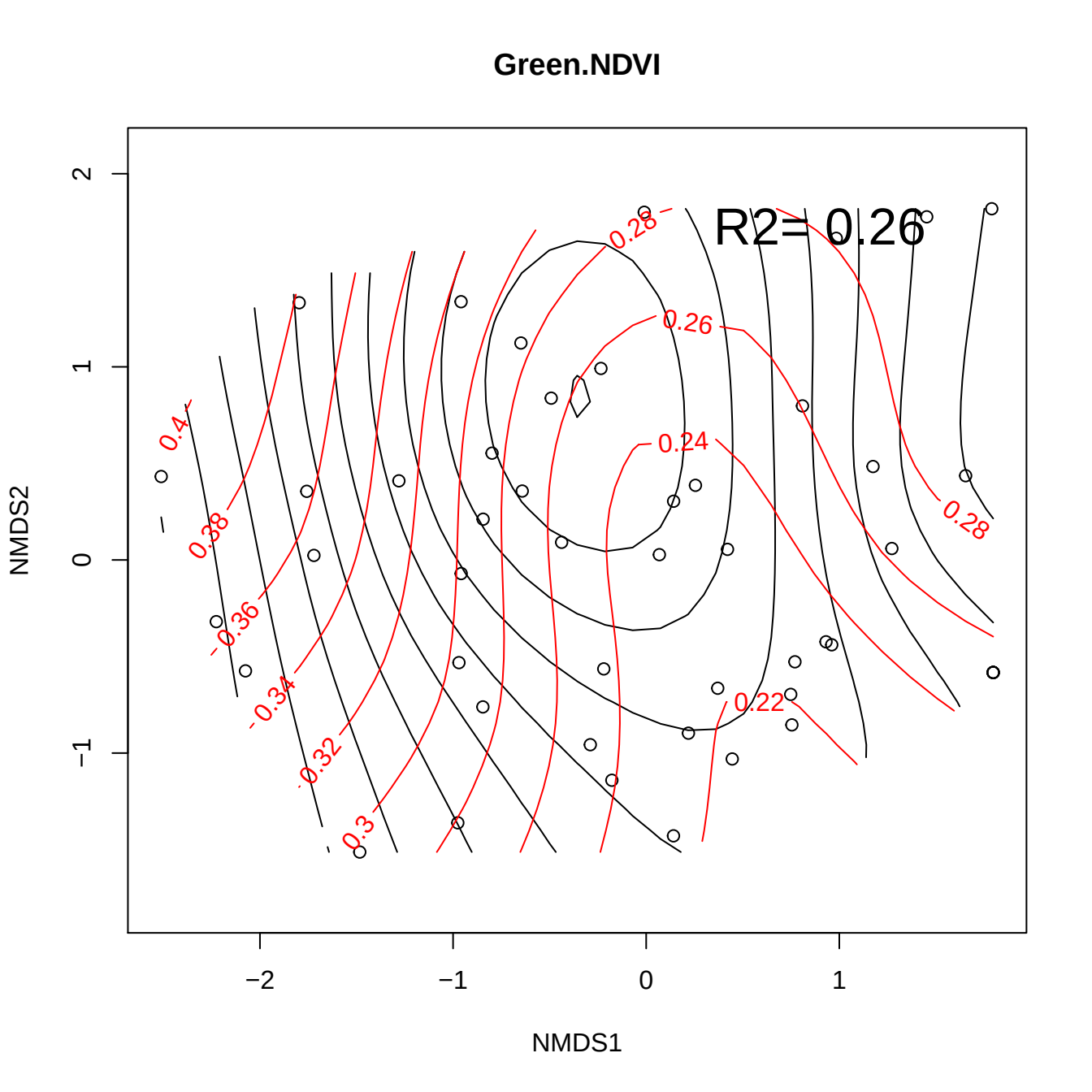

EGFR
R2= 0.33
NMDS1
NMDS2
−2
−1
0
1
2
2.65
2.7
2.75
2.8
2.85
2.9
2.95
3
3.05
3.1
3.15

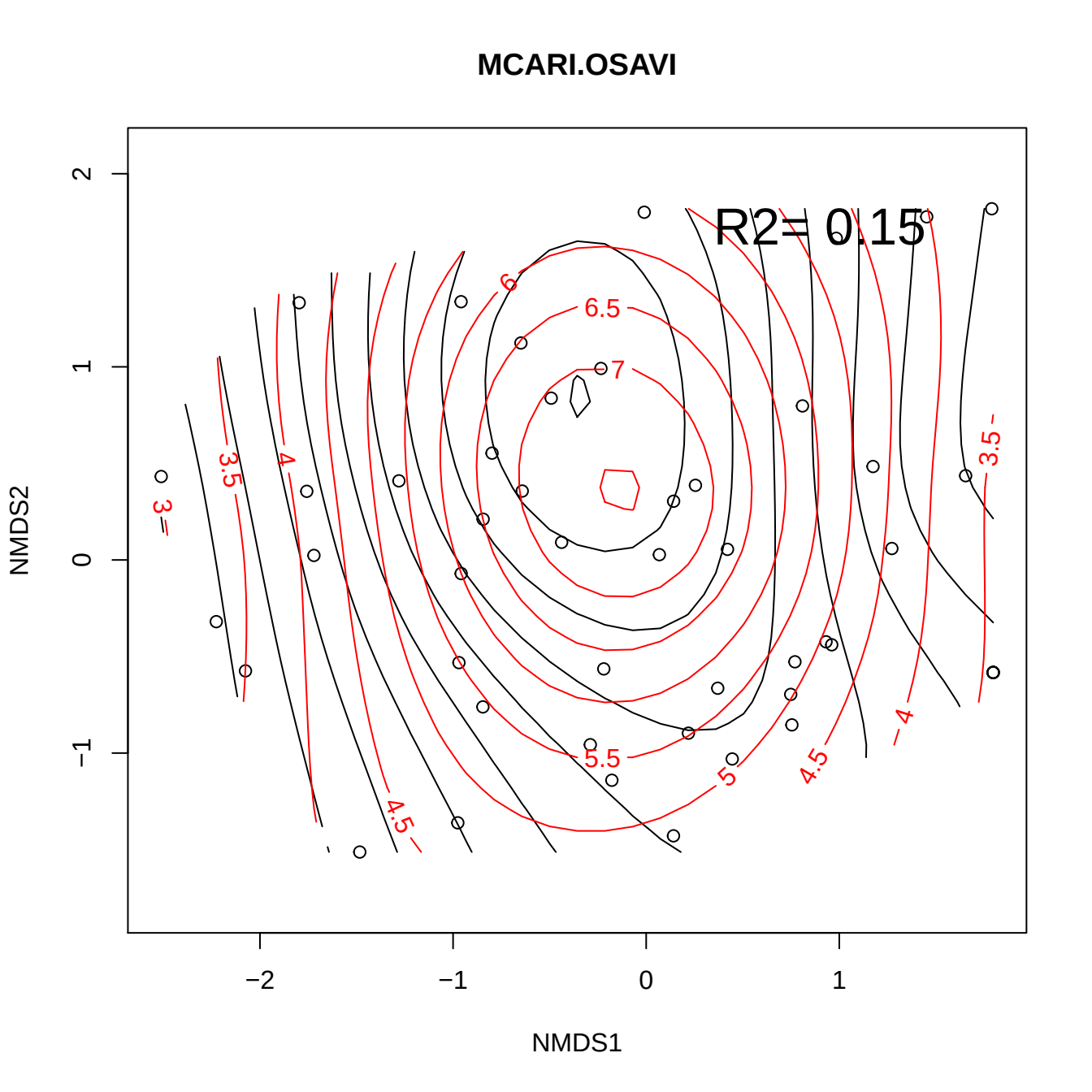

EGFN
R2= 0.28
NMDS1
NMDS2
−2
−1
0
1
2
0.435
0.44
0.445
0.45
0.455
0.46
0.465
0.47
0.475
0.48
0.485
0.49
0.495

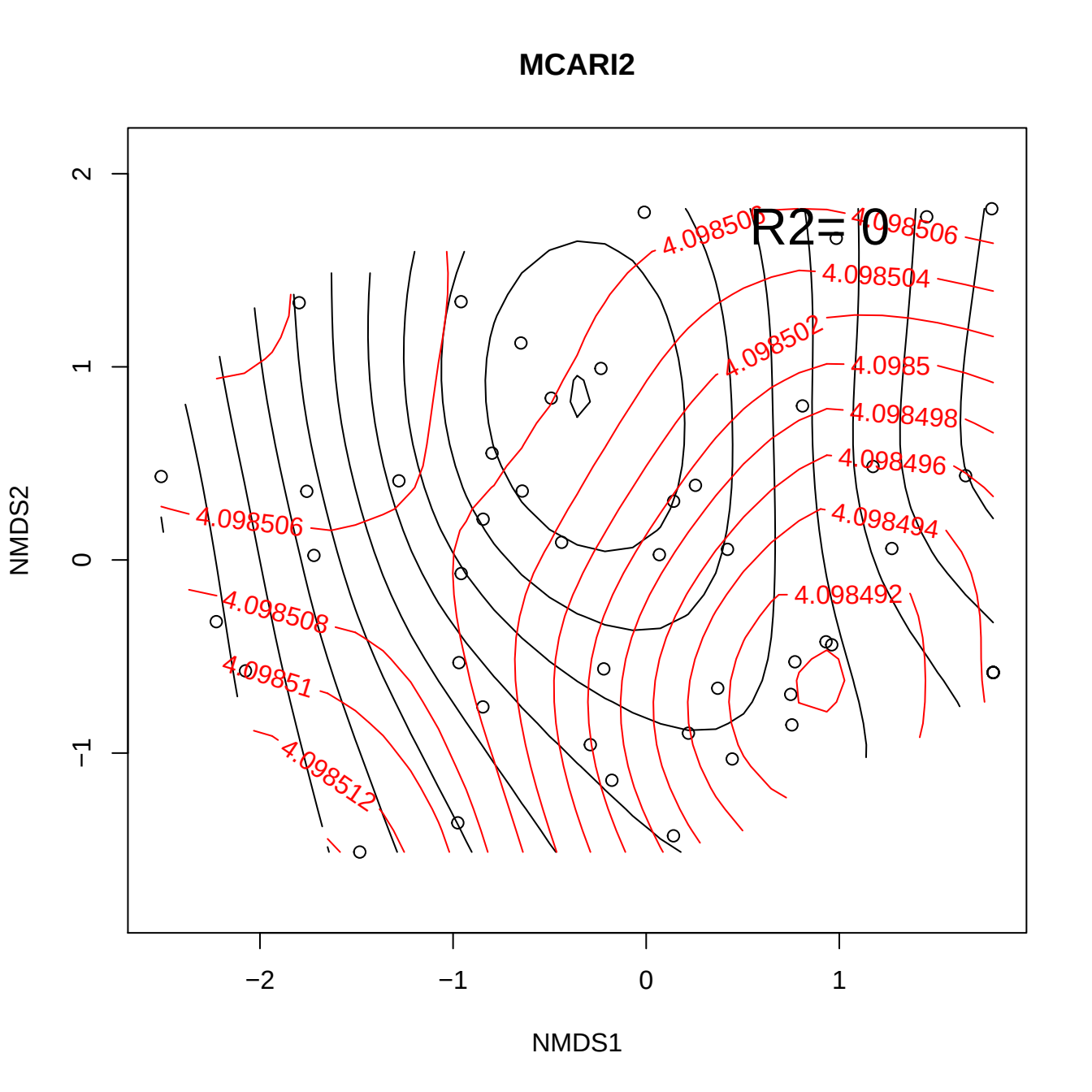

GI
R2= 0.34
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.78
0.8
0.82
0.84
NMDS1
NMDS2
−2
−1
0
1
2

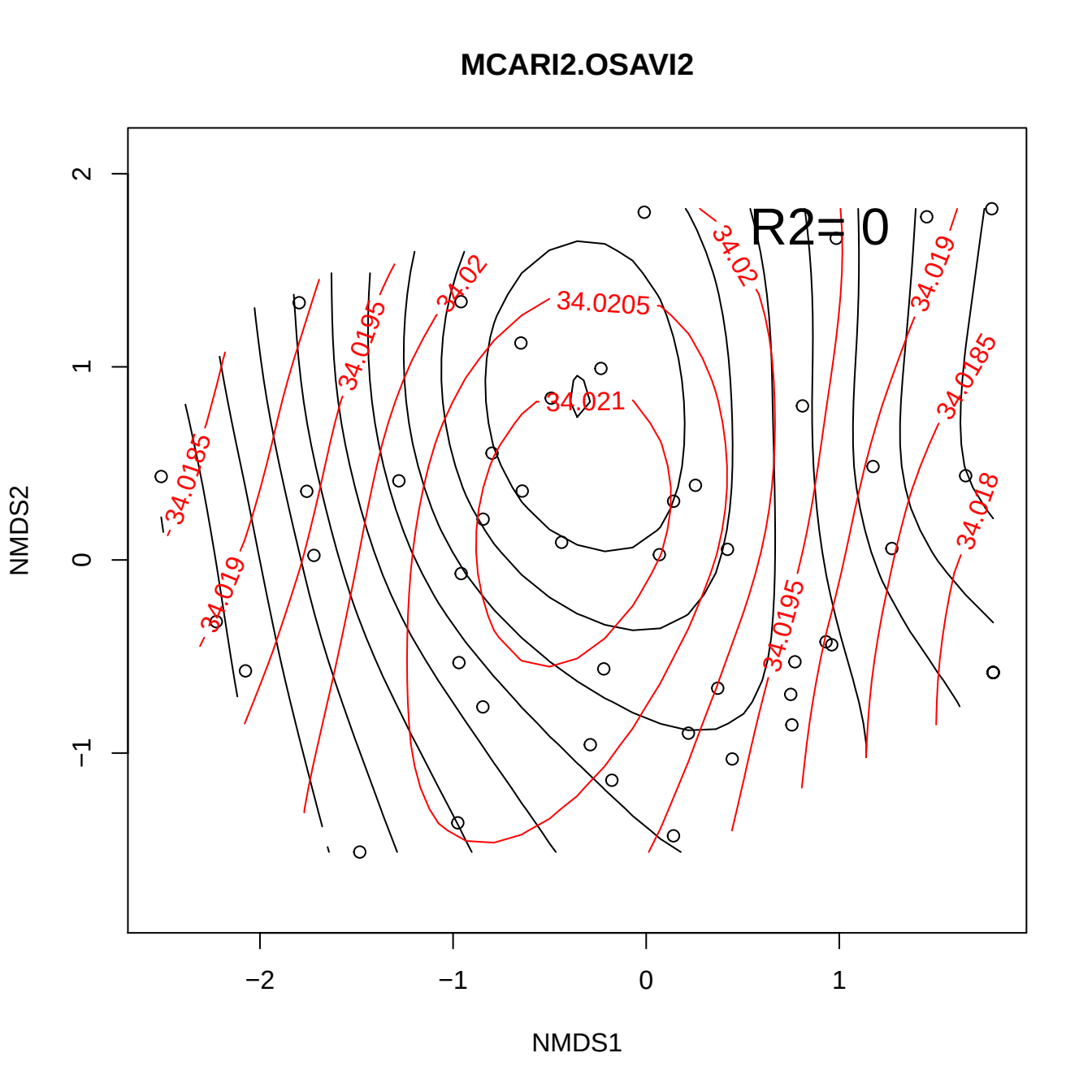

Gitelson
R2= 0.08
0.0435
0.043
0.0425
0.042
0.0415
0.044
0.0445
0.045
0.0455
0.046
0.0465
0.043
0.0435
NMDS1
NMDS2
−2
−1
0
1
2

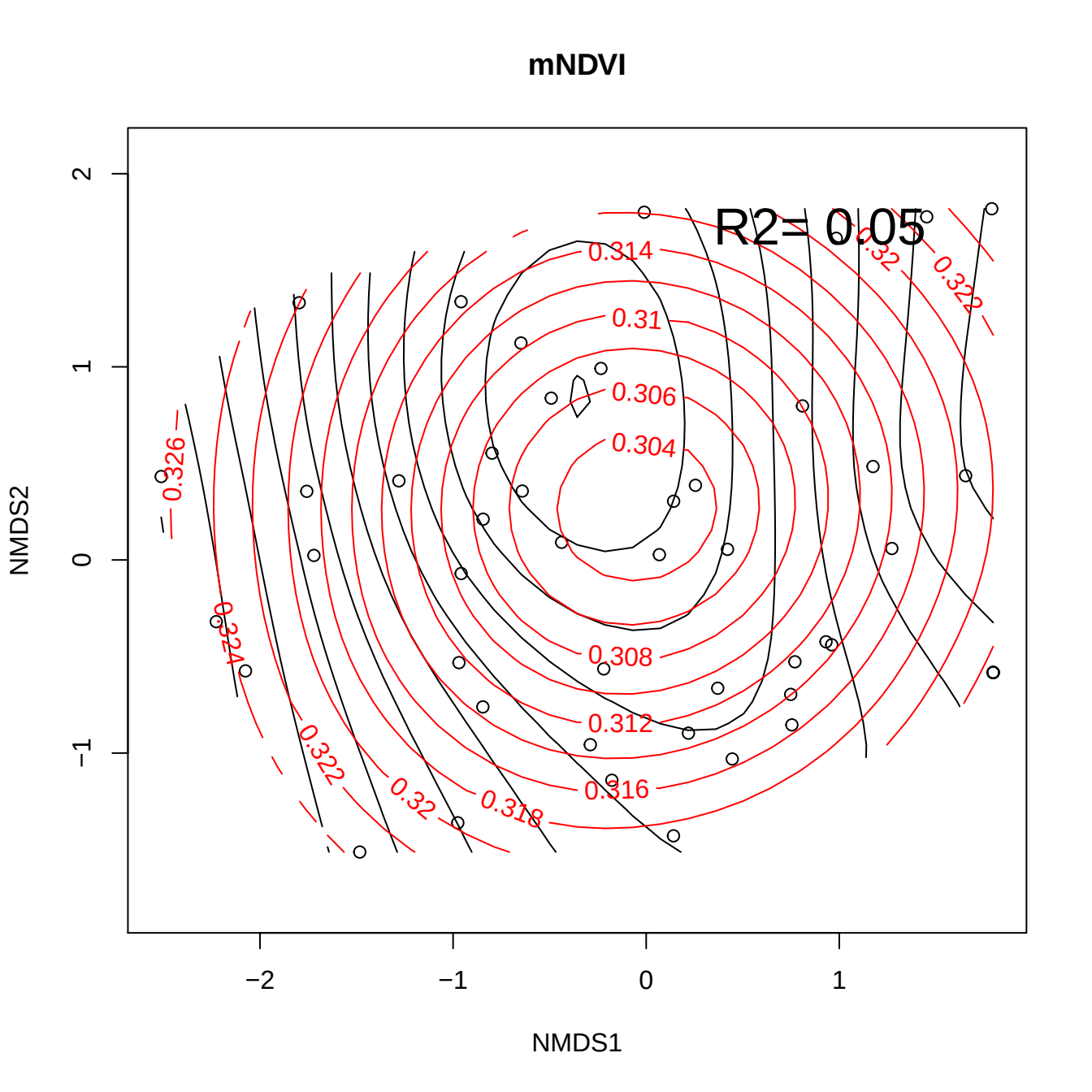

Gitelson2
R2= 0.07
NMDS1
NMDS2
−2
−1
0
1
2
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18

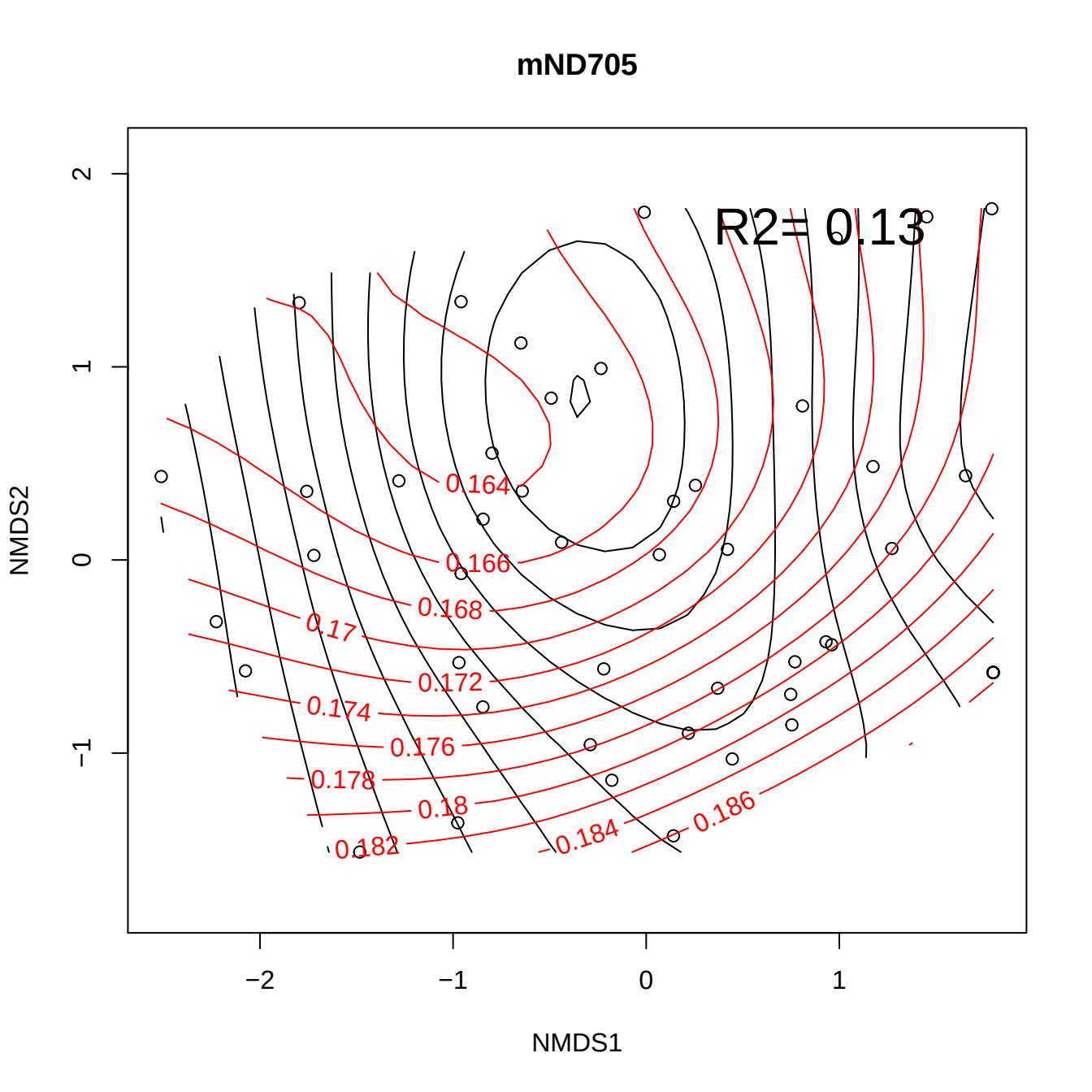

Green.NDVI
R2= 0.26
NMDS1
NMDS2
−2
−1
0
1
2
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.28

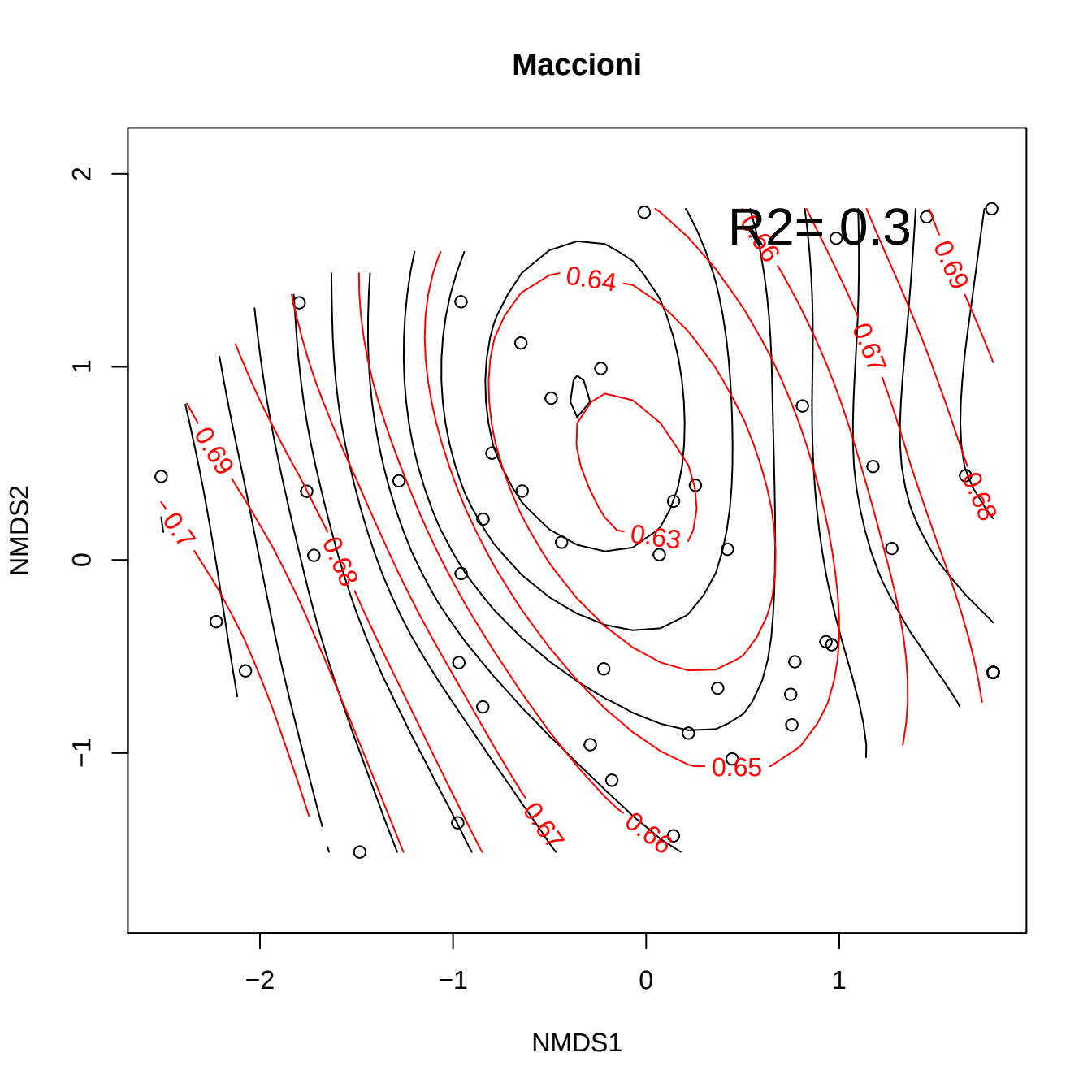

MCARI.OSAVI
R2= 0.15
NMDS1
NMDS2
−2
−1
0
1
2
3
3.5
4
4.5
5
5.5
6
6.5
7

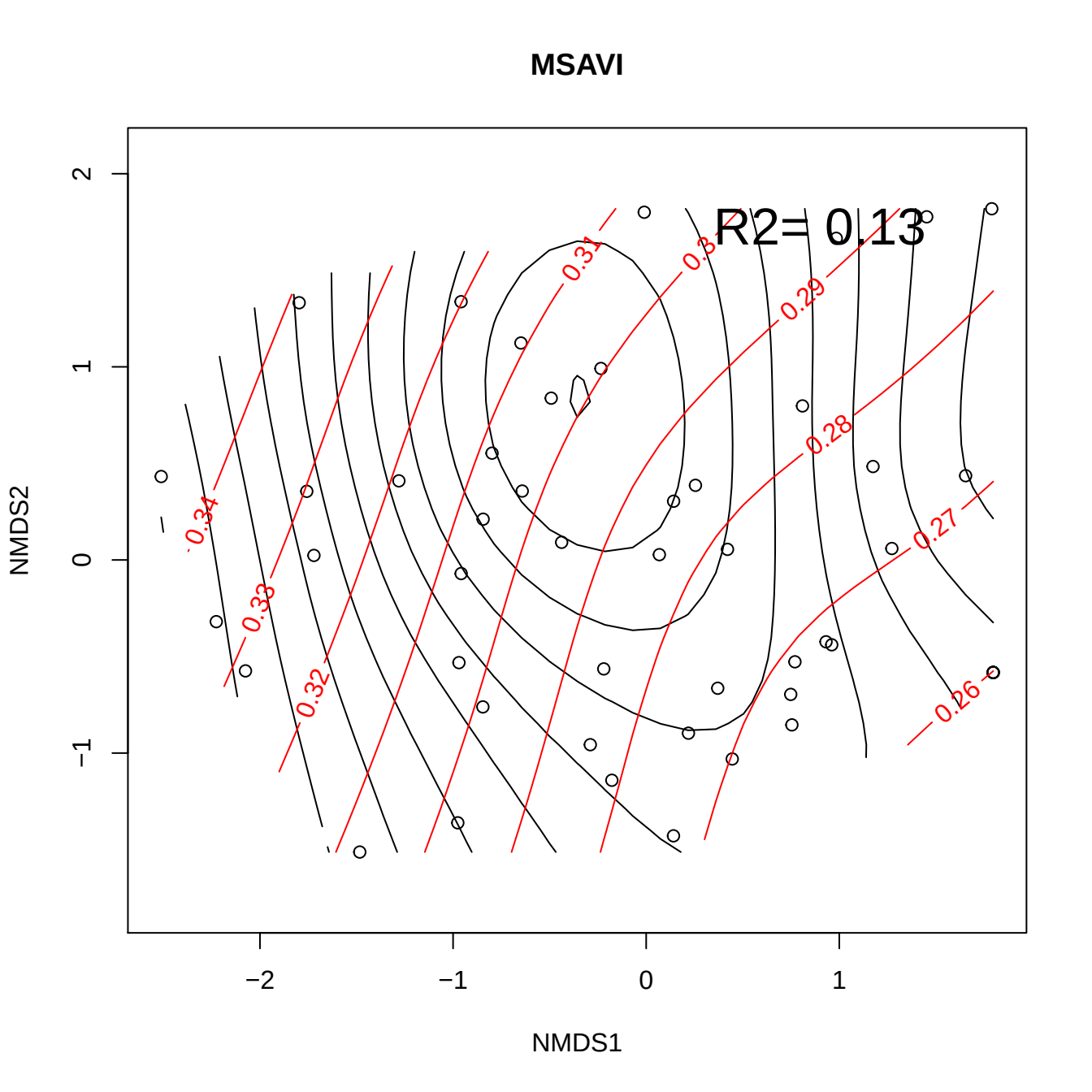

MCARI2
R2= 0
4.098508
4.098506
4.098504
4.098502
4.0985
4.098498
4.098496
4.098494
4.098492
4.098506
4.098508
4.09851
4.098512
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

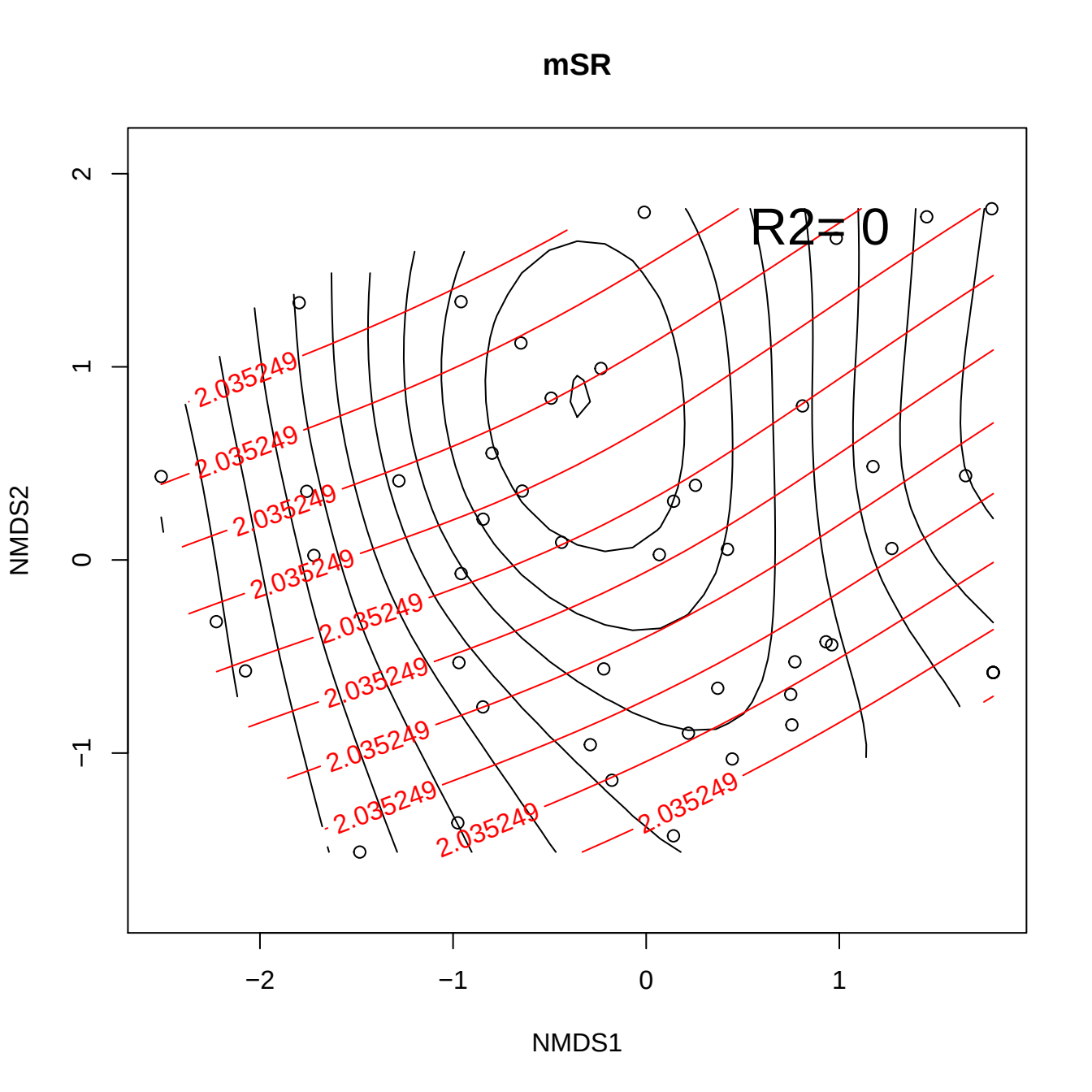

MCARI2.OSAVI2
R2= 0
34.0205
34.021
34.02
34.0195
34.019
34.0185
34.018
NMDS1
NMDS2
−2
−1
0
1
2

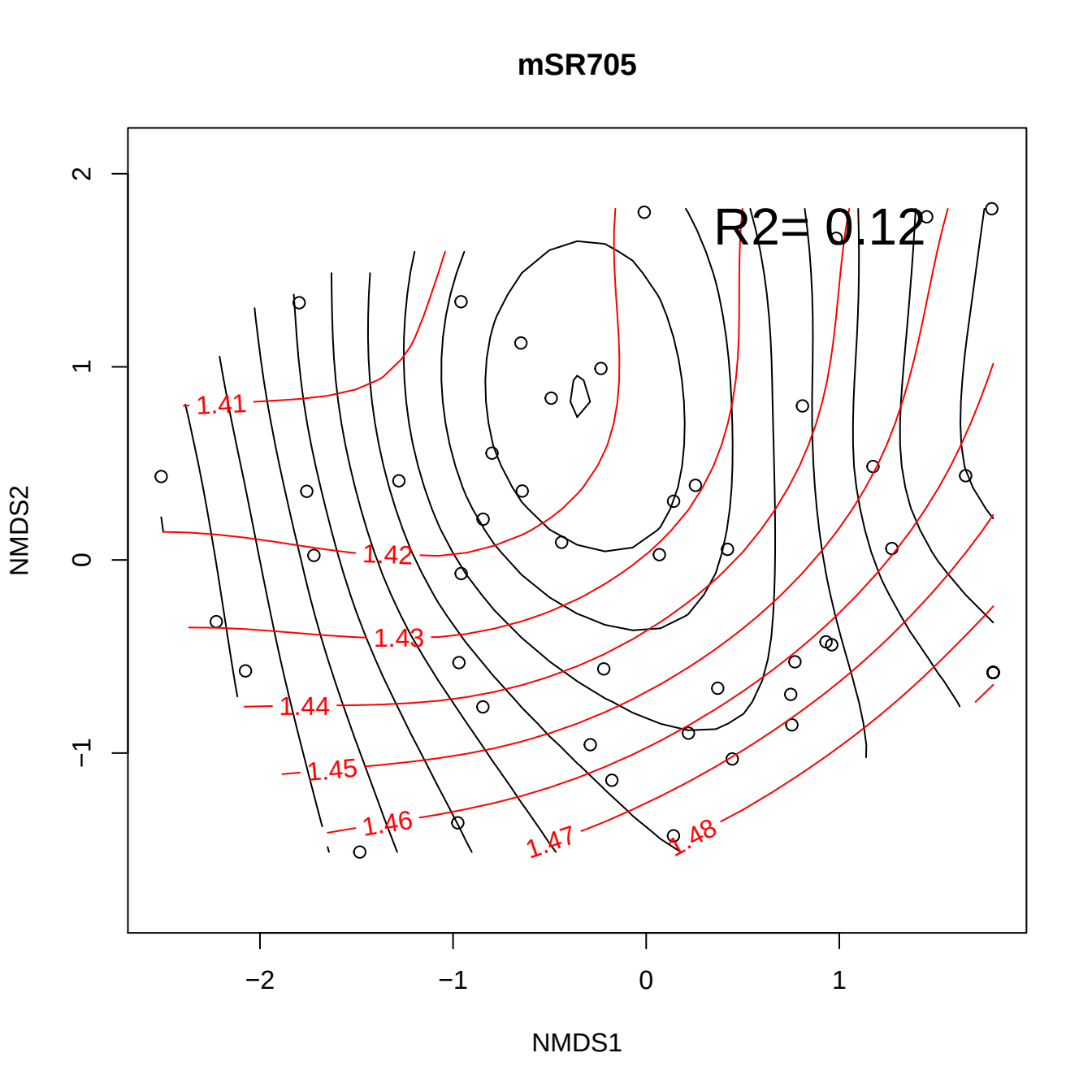

mNDVI
R2= 0.05
0.314
0.31
0.306
0.304
0.308
0.312
0.316
0.318
0.32
0.322
0.324
0.326
NMDS1
NMDS2
−2
−1
0
1
2

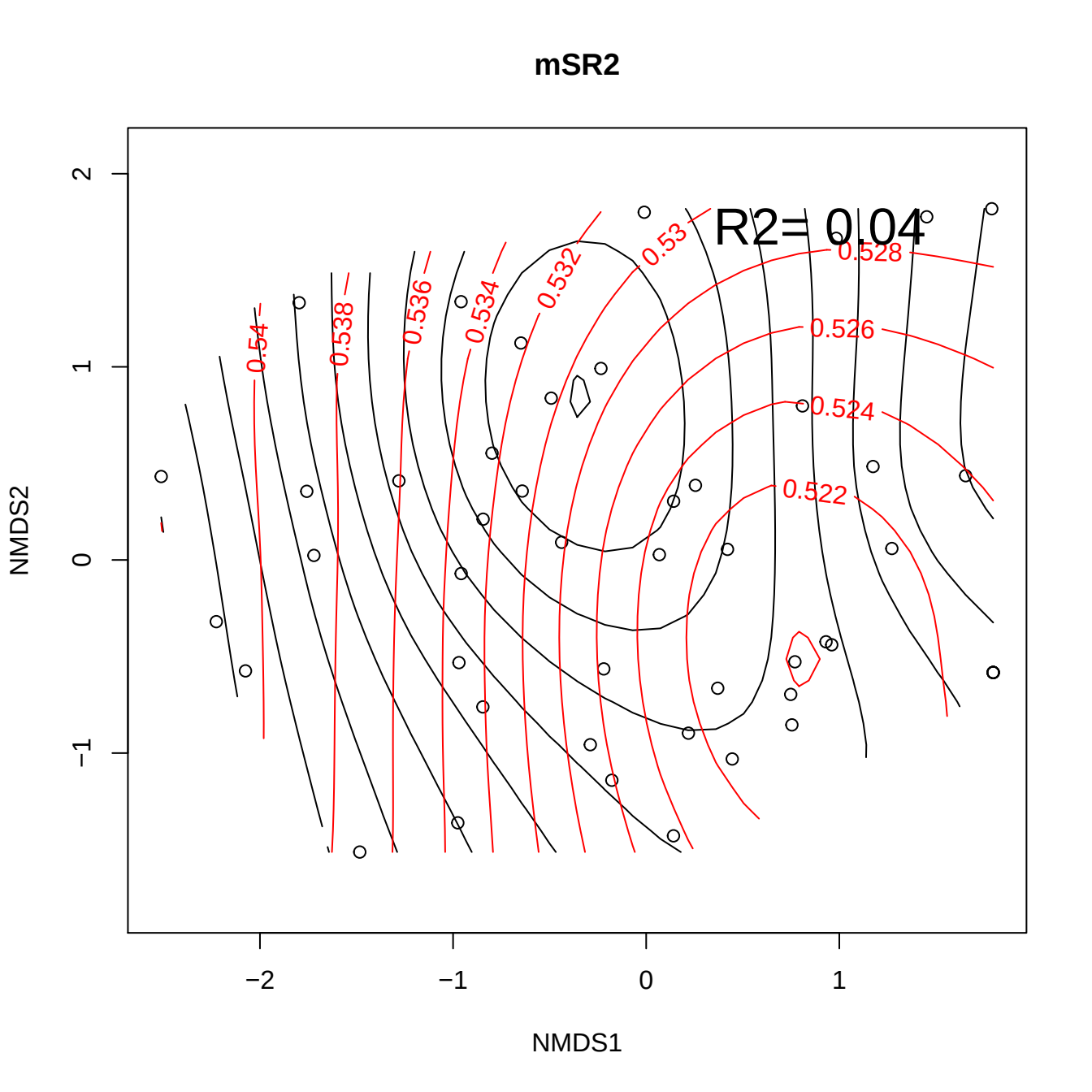

mND705
R2= 0.13
NMDS1
NMDS2
−2
−1
0
1
2
0.164
0.166
0.168
0.17
0.172
0.174
0.176
0.178
0.18
0.182
0.184
0.186

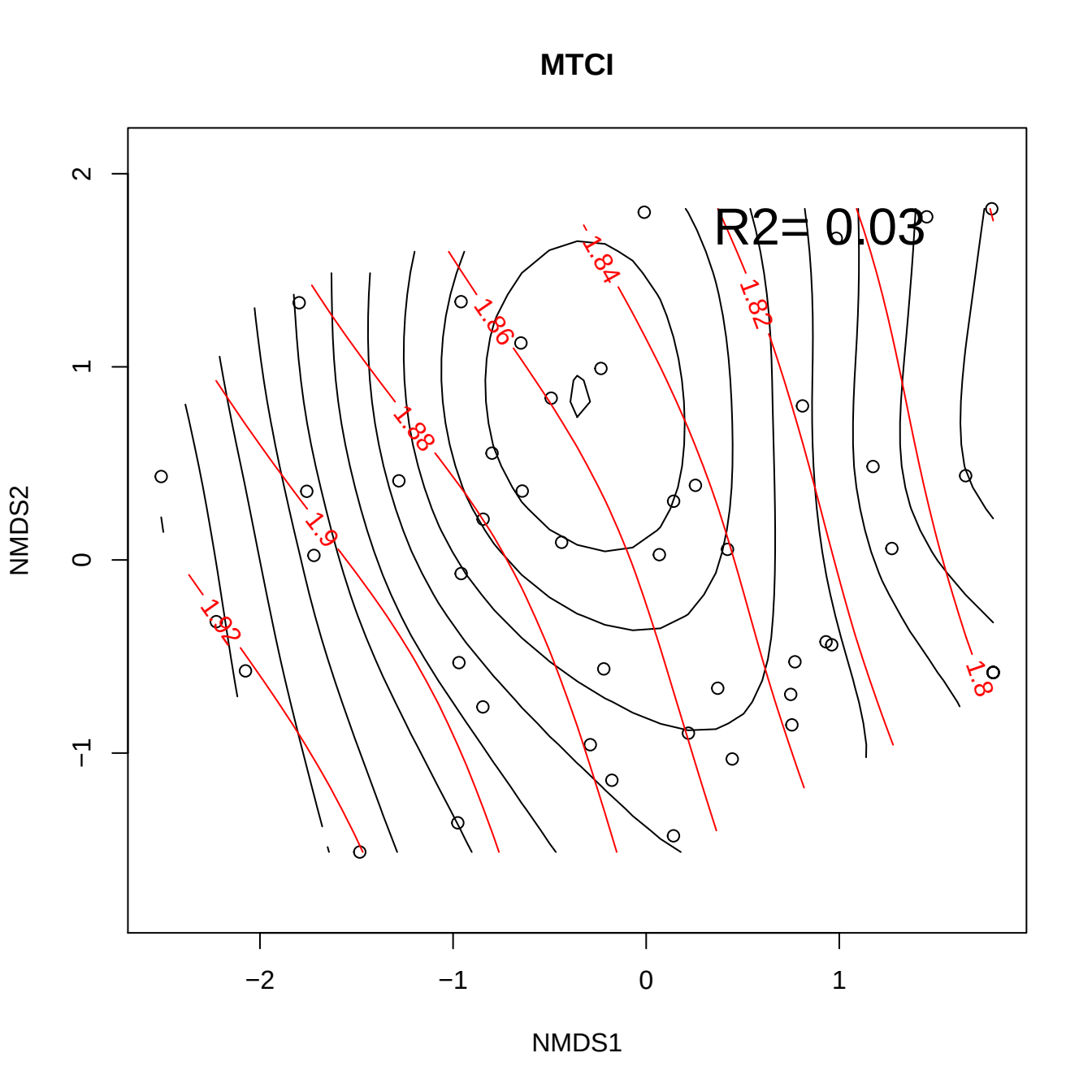

Maccioni
R2=0.3
0.64
0.63
0.65
0.66
0.67
0.68
0.69
0.7
NMDS1
NMDS2
−2
−1
0
1
2

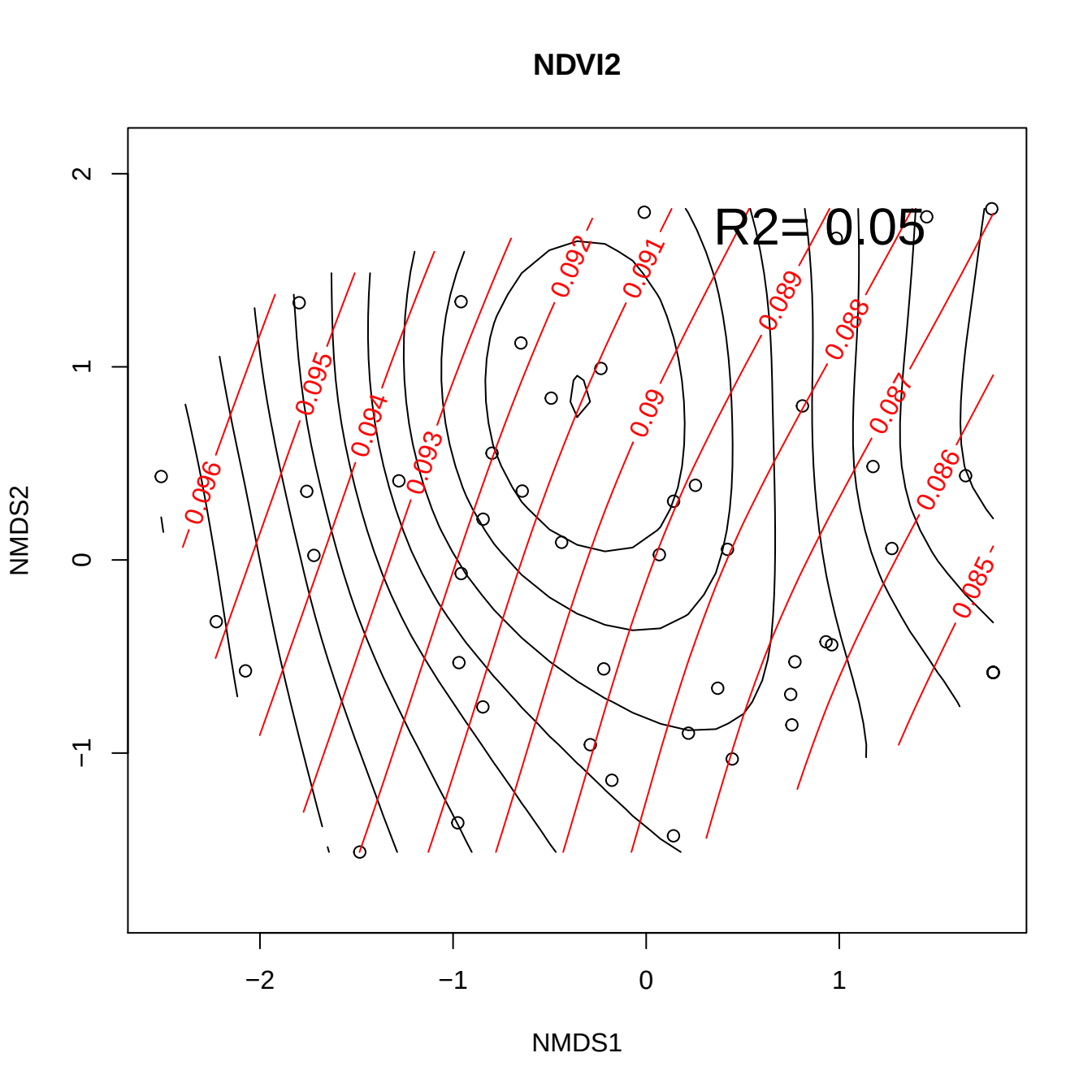

MSAVI
R2= 0.13
0.34
0.33
0.32
0.31
0.3
0.29
0.28
0.27
0.26
NMDS1
NMDS2
−2
−1
0
1
2

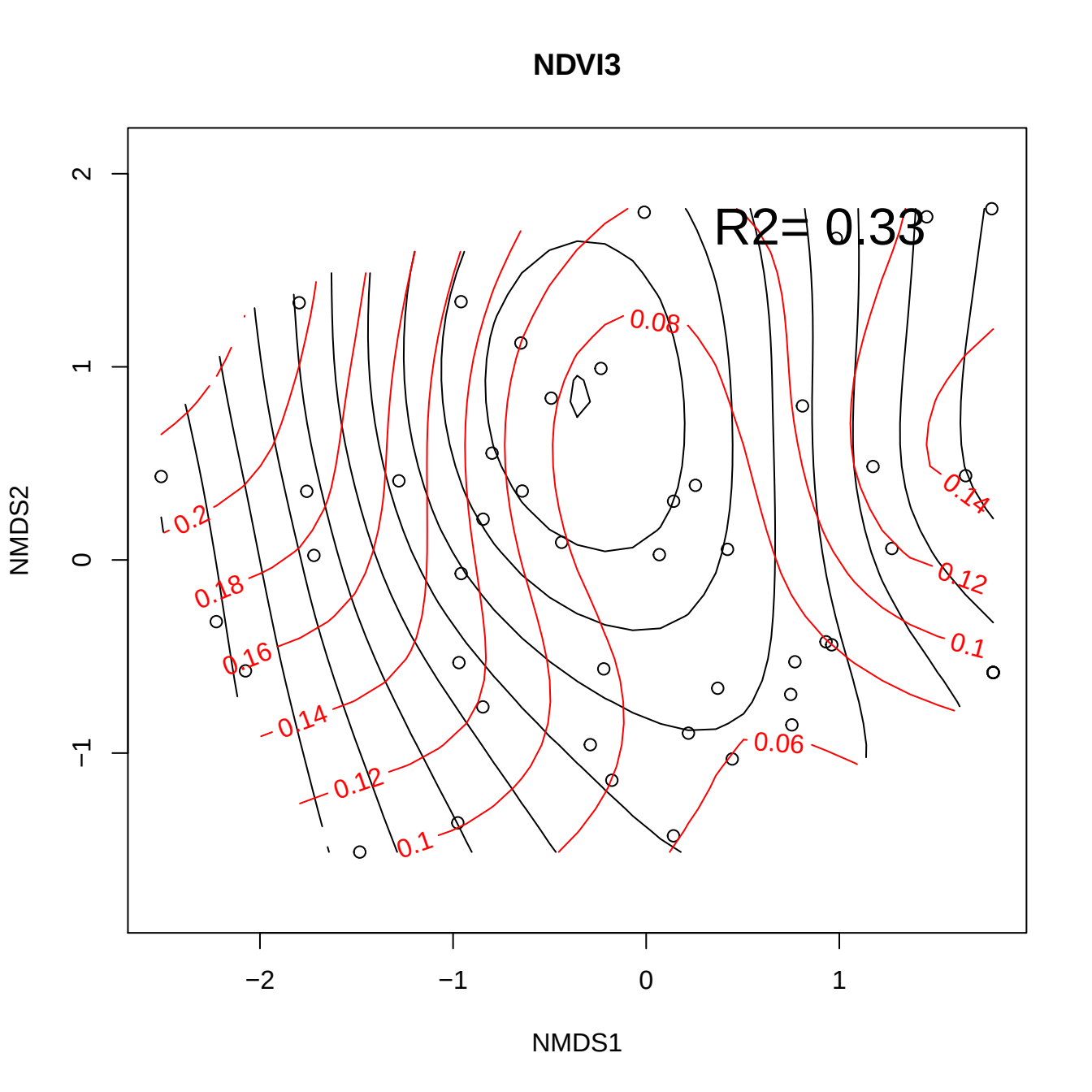

mSR
R2= 0
2.035249
NMDS1
NMDS2
−2
−1
0
1
2

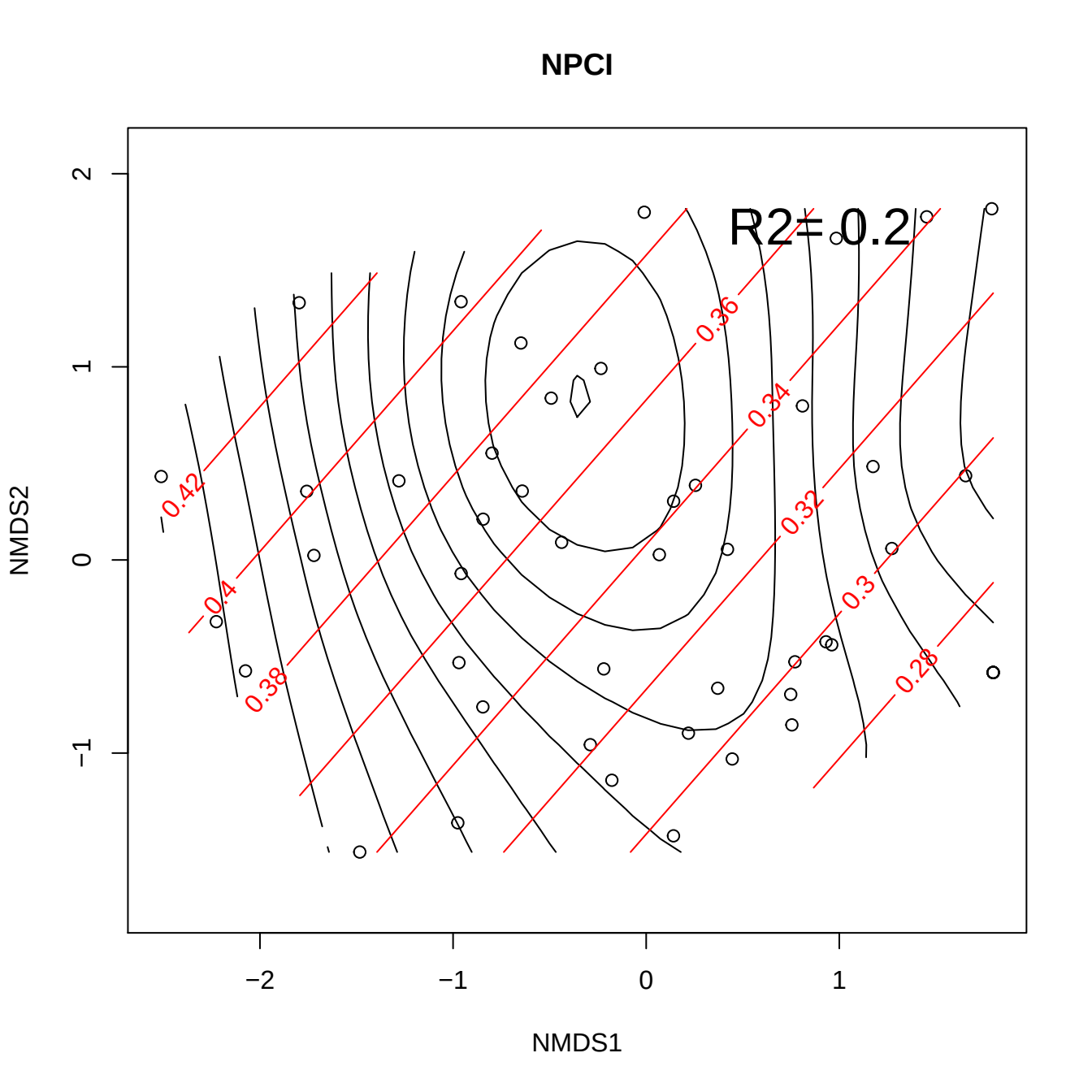

mSR705
R2= 0.12
1.41
1.42
1.43
1.44
1.45
1.46
1.47
1.48
NMDS1
NMDS2
−2
−1
0
1
2

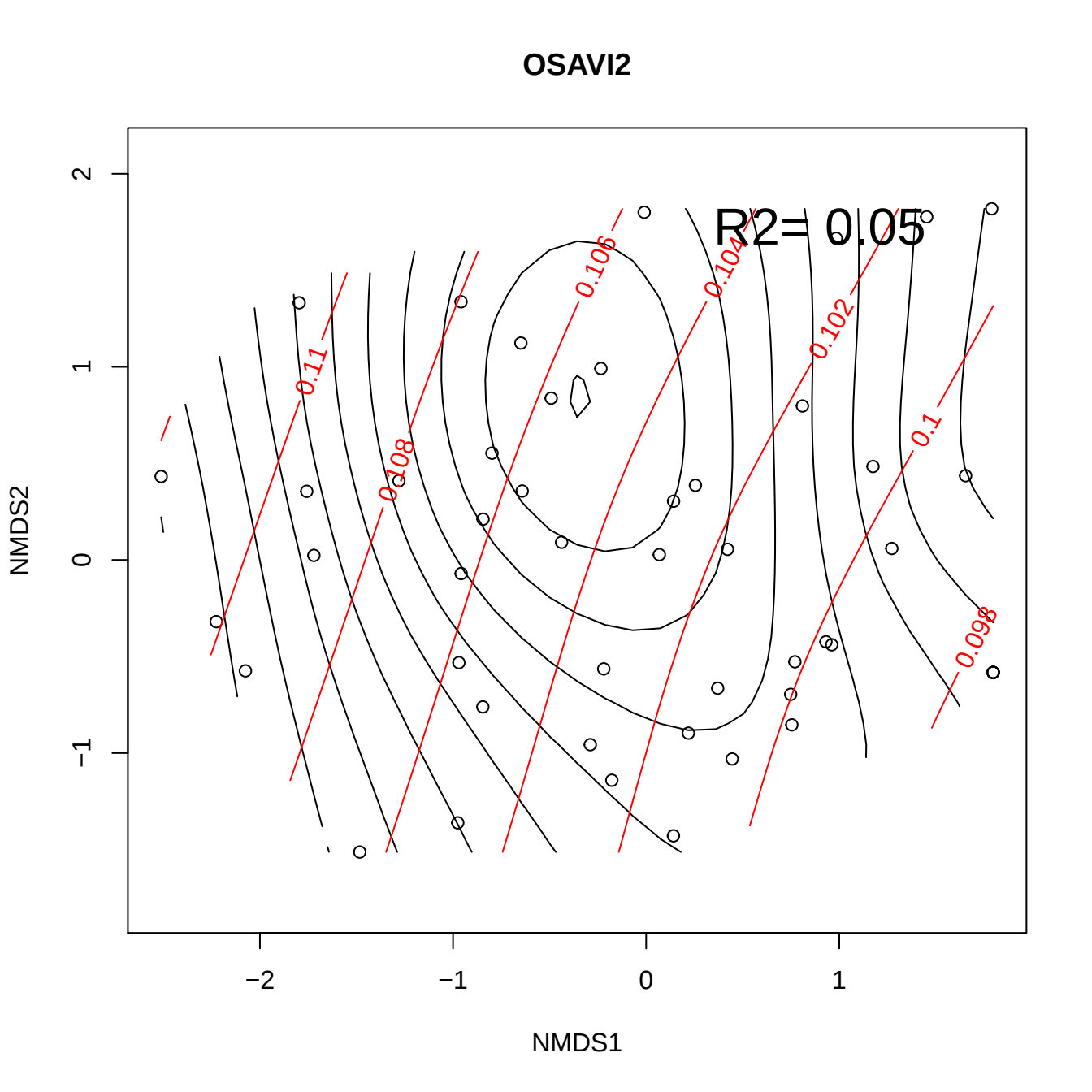

mSR2
R2= 0.04
0.54
0.538
0.536
0.534
0.532
0.53
0.528
0.526
0.524
0.522
NMDS1
NMDS2
−2
−1
0
1
2

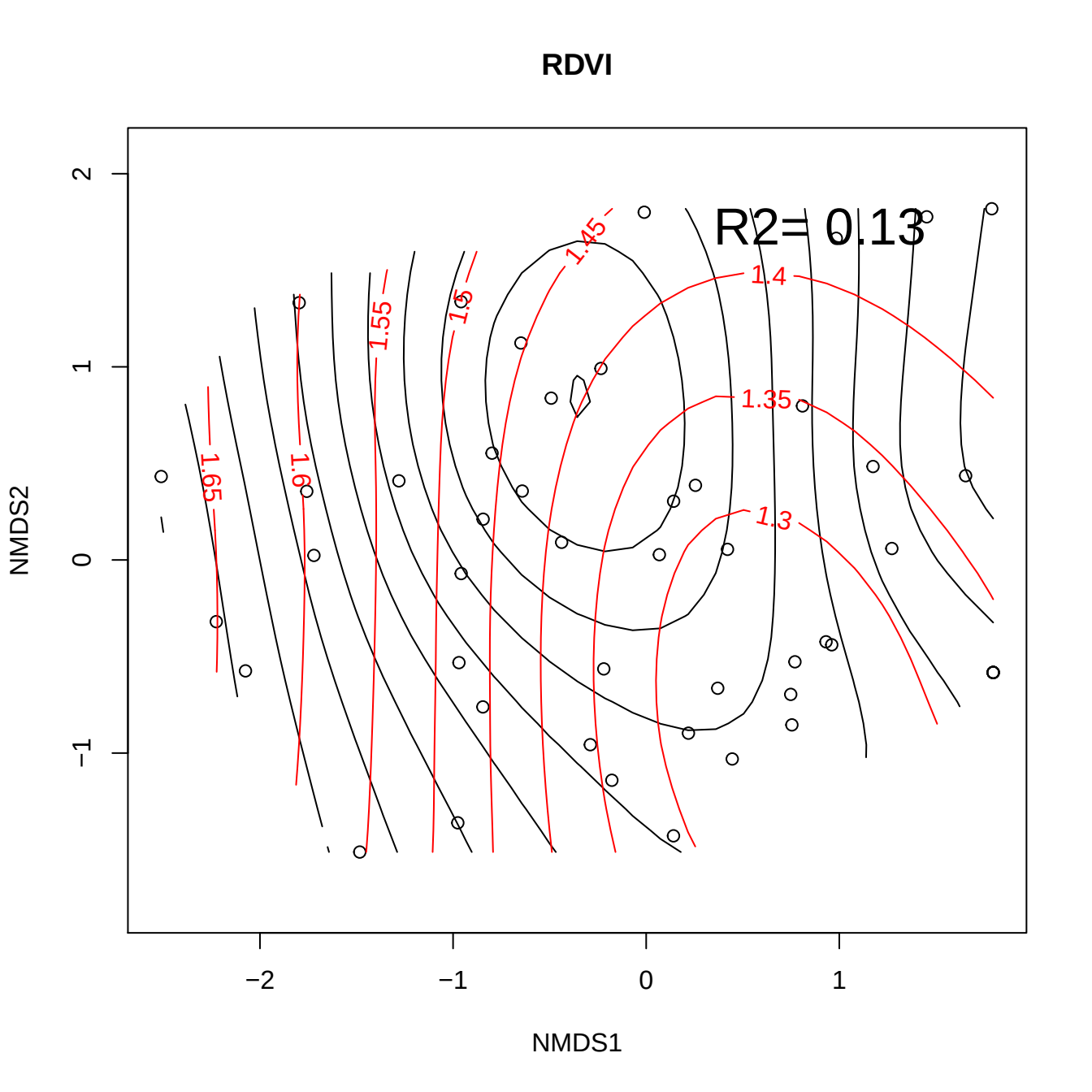

MTCI
R2= 0.03
1.84
1.82
1.86
1.88
1.9
1.92
1.8
NMDS1
NMDS2
−2
−1
0
1
2

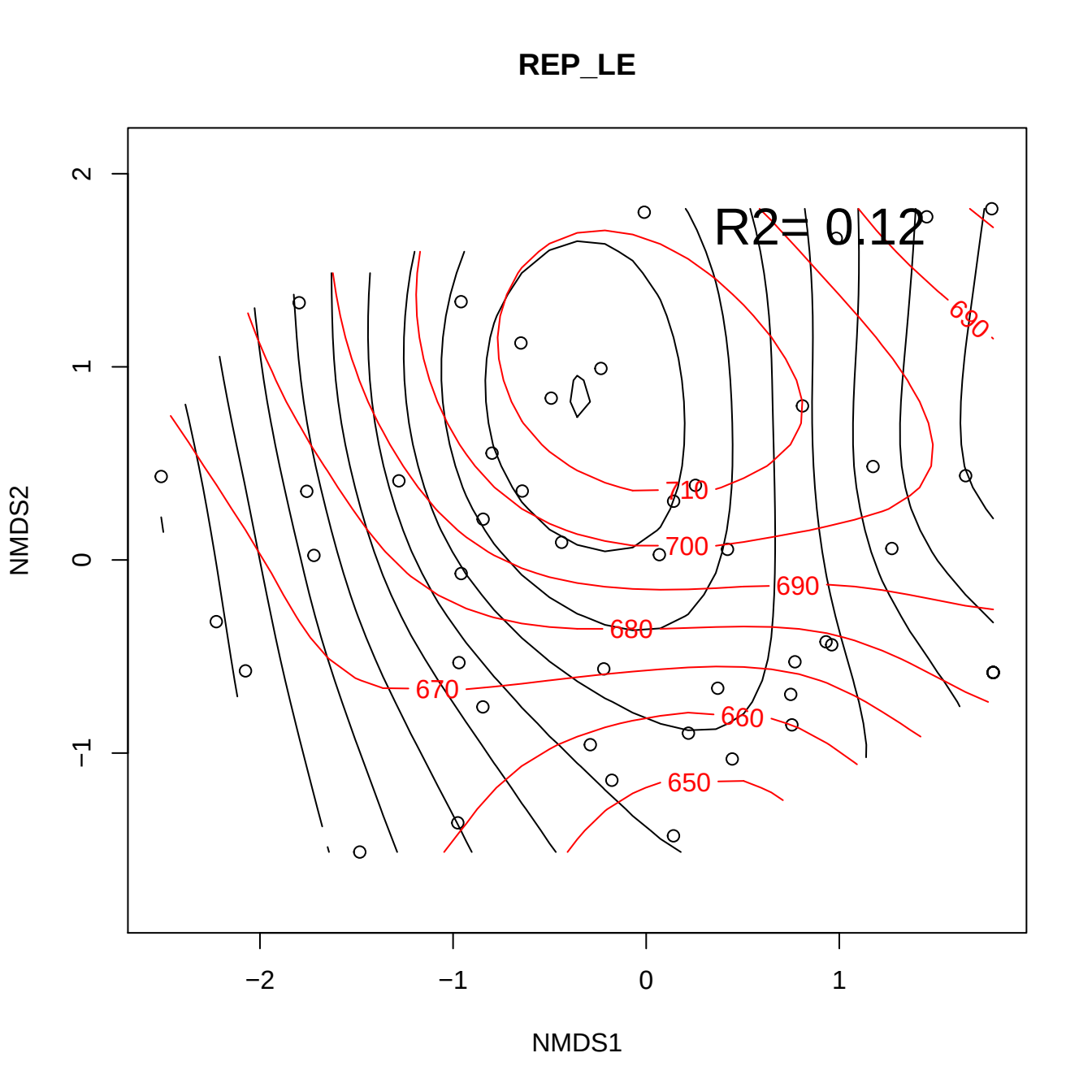

NDVI2
R2= 0.05
0.096
0.095
0.094
0.093
0.092
0.091
0.09
0.089
0.088
0.087
0.086
0.085
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

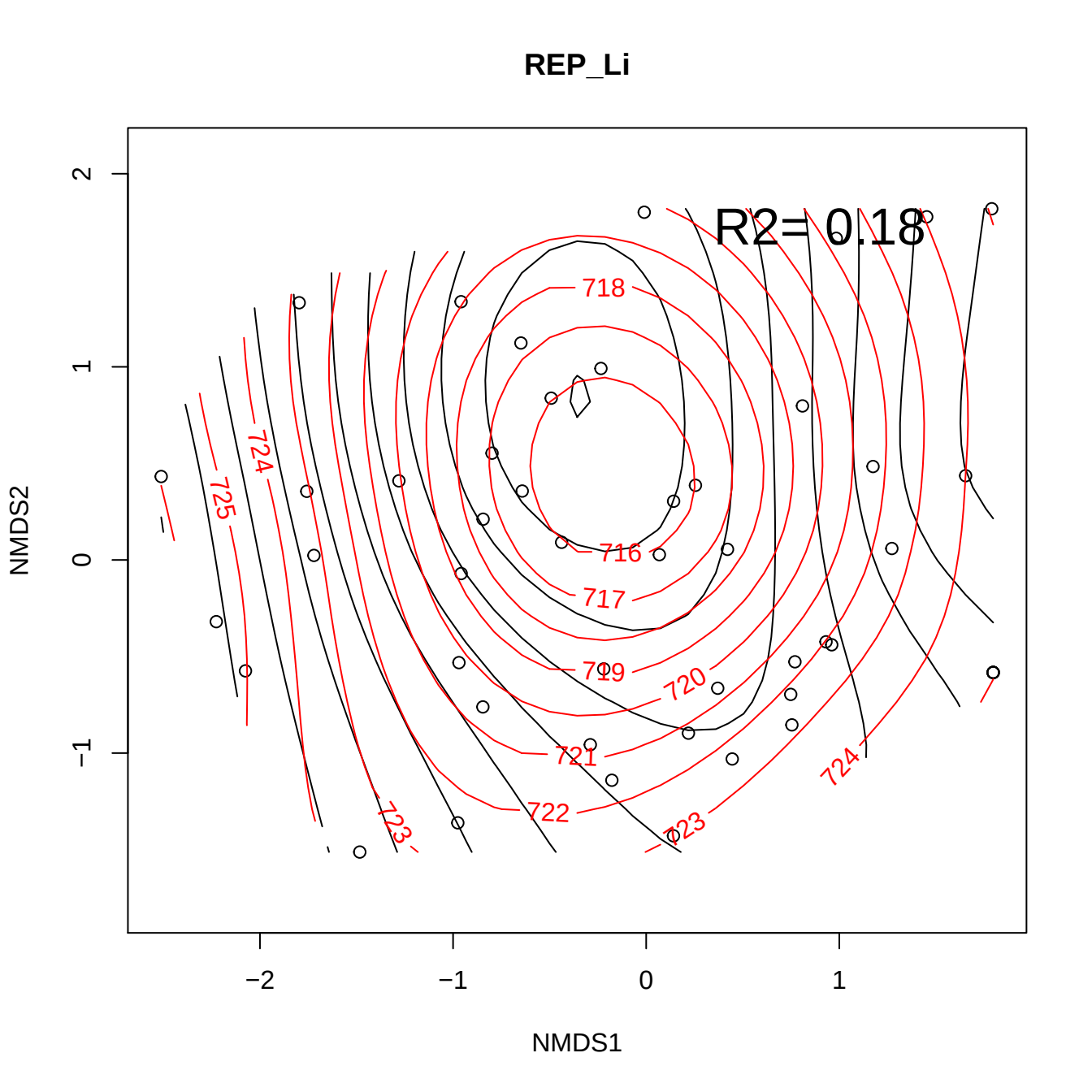

NDVI3
R2= 0.33
NMDS1
NMDS2
−2
−1
0
1
2
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.14
0.12
0.1
0.06

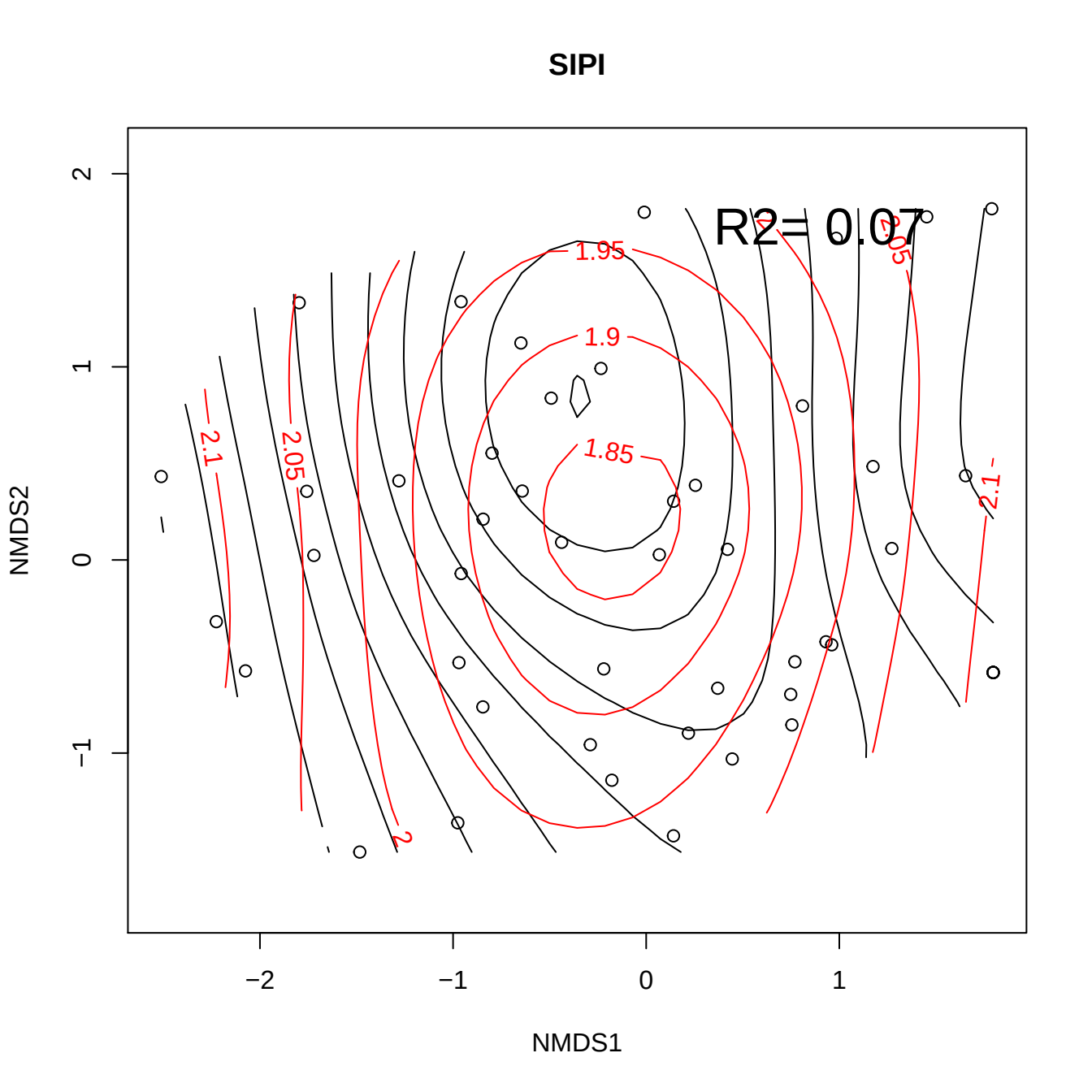

NPCI
R2=0.2
0.36
0.34
0.32
0.3
0.28
0.42
0.4
0.38
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

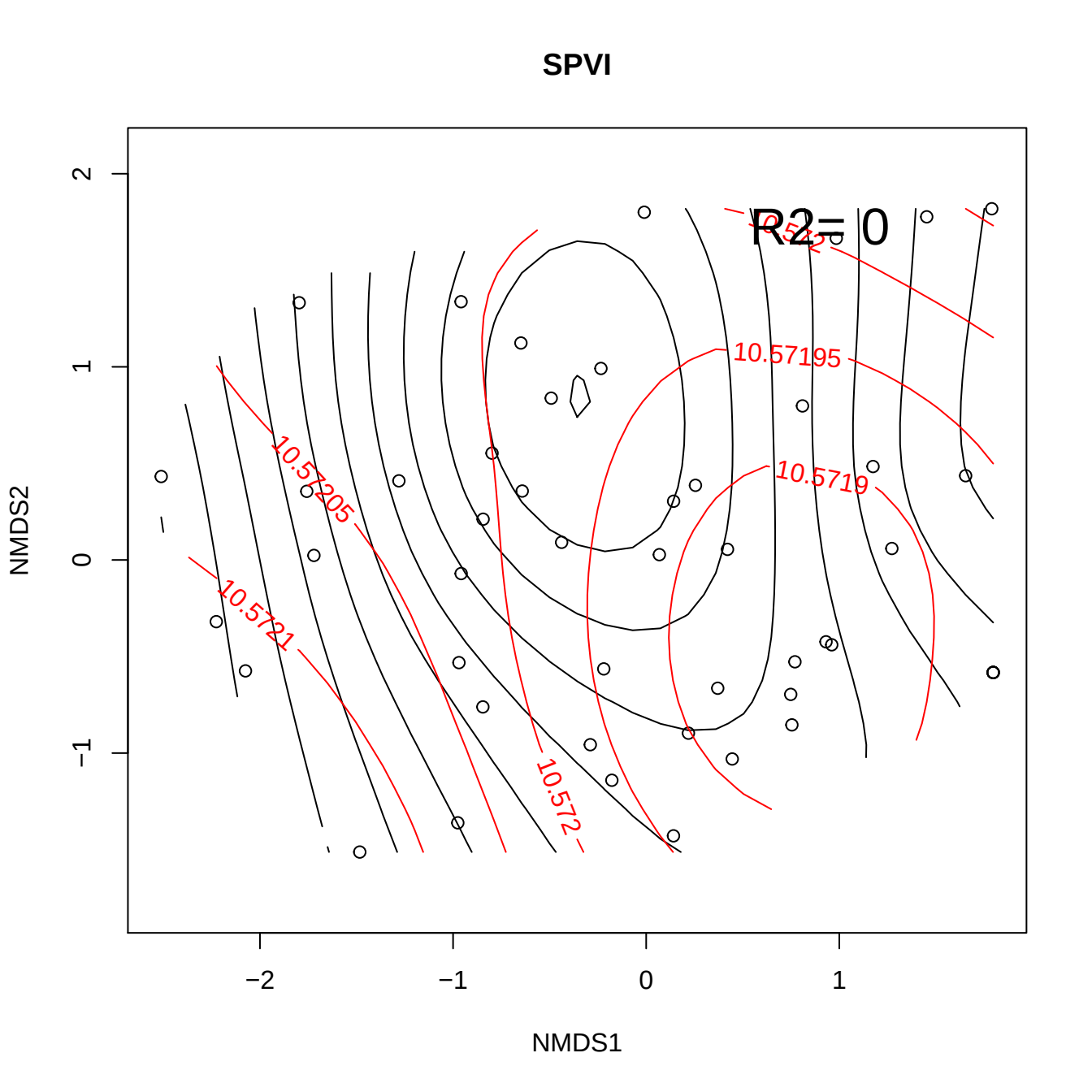

OSAVI2
R2= 0.05
0.11
0.108
0.106
0.104
0.102
0.1
0.098
NMDS1
NMDS2
−2
−1
0
1
2

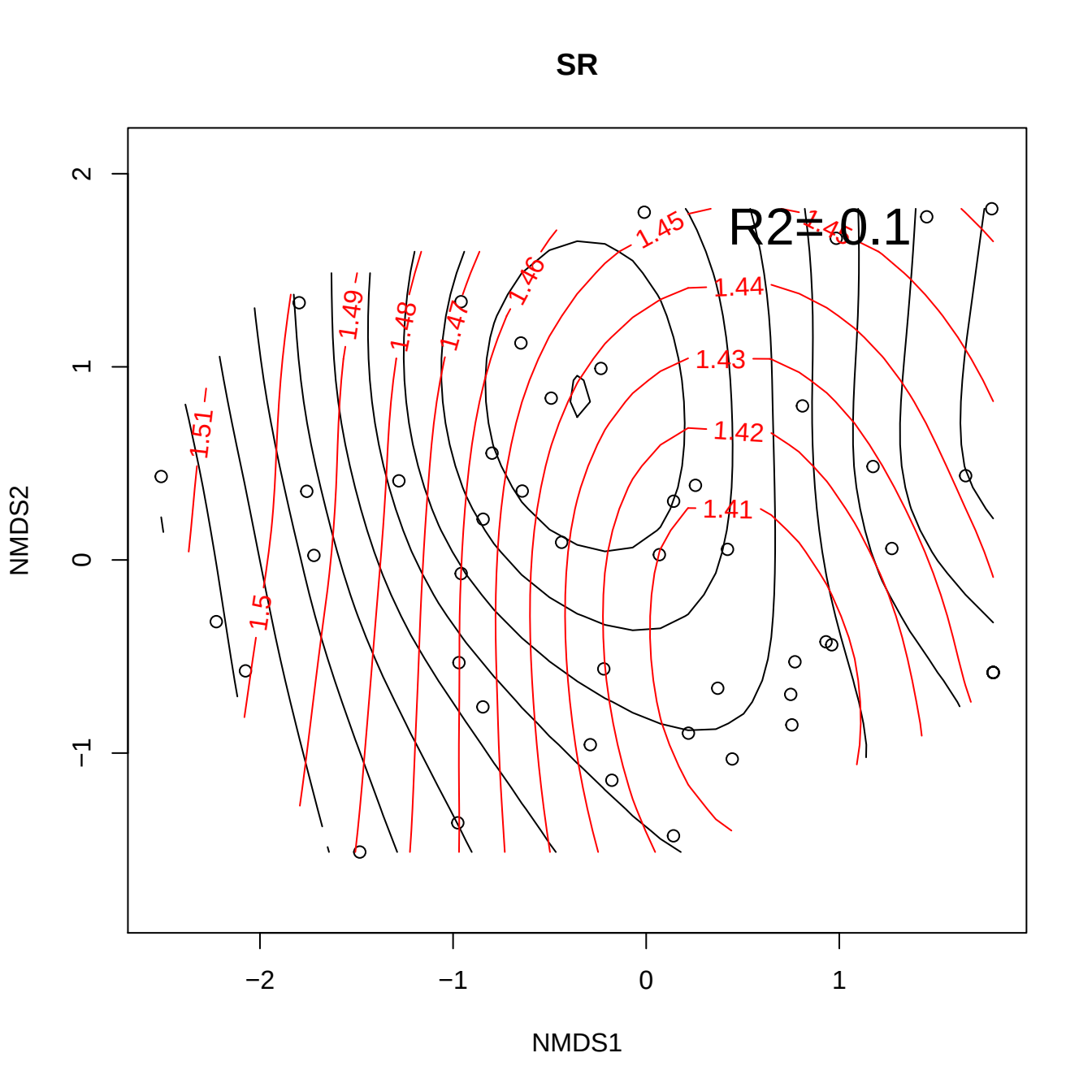

RDVI
R2= 0.13
1.65
1.6
1.55
1.5
1.45
1.4
1.35
1.3
NMDS1
NMDS2
−2
−1
0
1
2

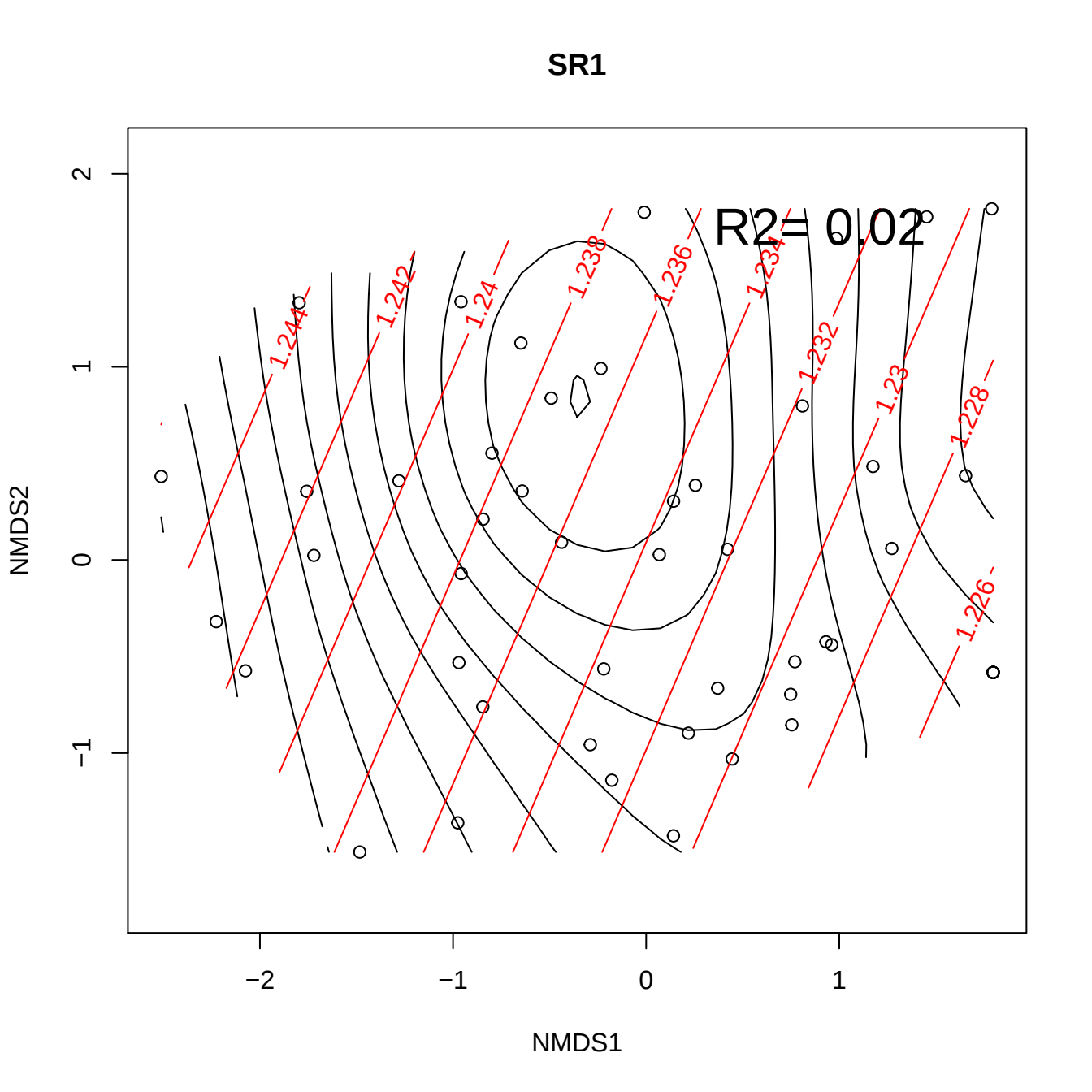

REP_LE
R2= 0.12
710
700
690
680
670
660
650
NMDS1
NMDS2
−2
−1
0
1
2

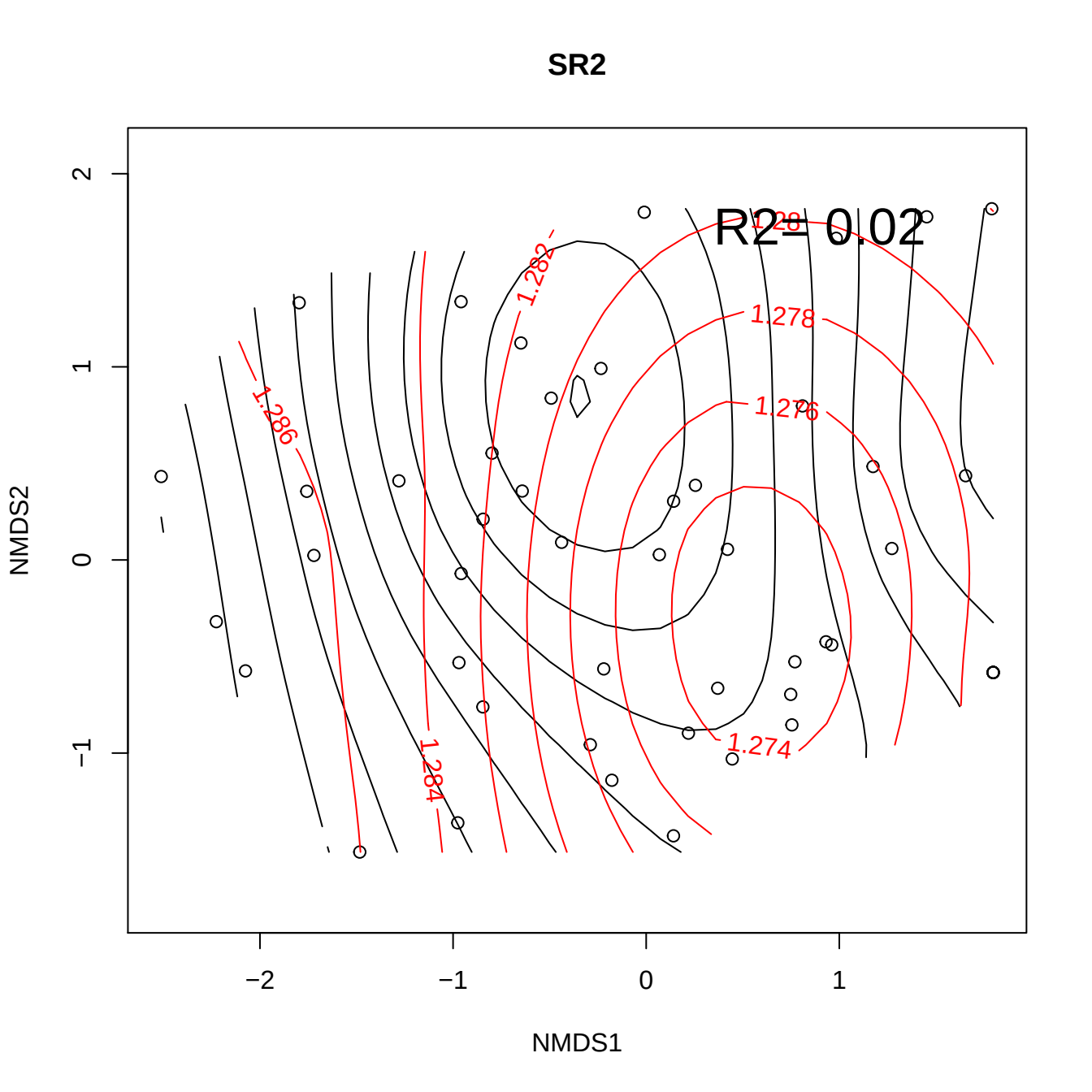

REP_Li
R2= 0.18
718
716
717
719
720
721
722
723
724
725
NMDS1
NMDS2
−2
−1
0
1
2

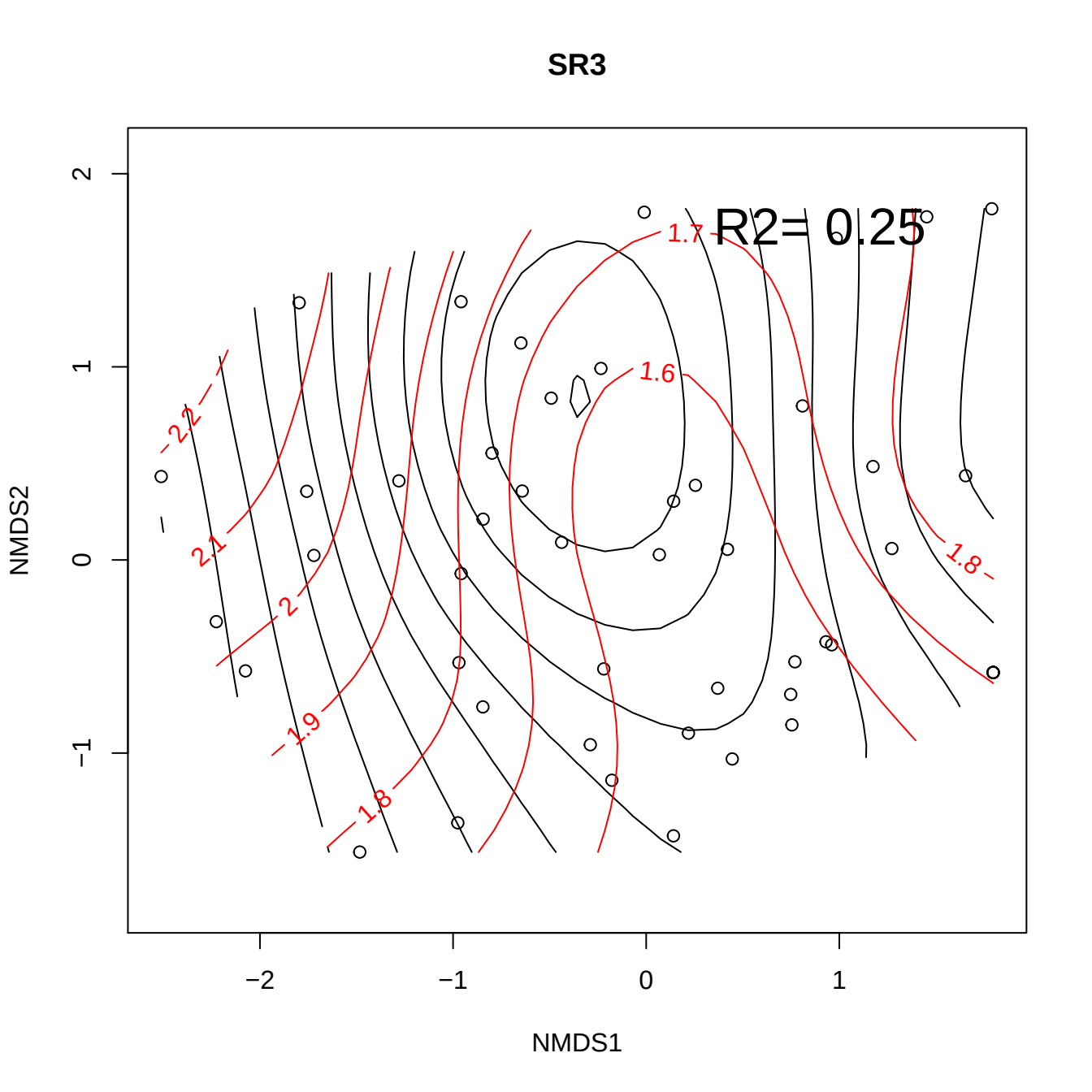

SIPI
R2= 0.07
1.95
1.9
1.85
2.1
2.05
2
NMDS1
NMDS2
−2
−1
0
1
2

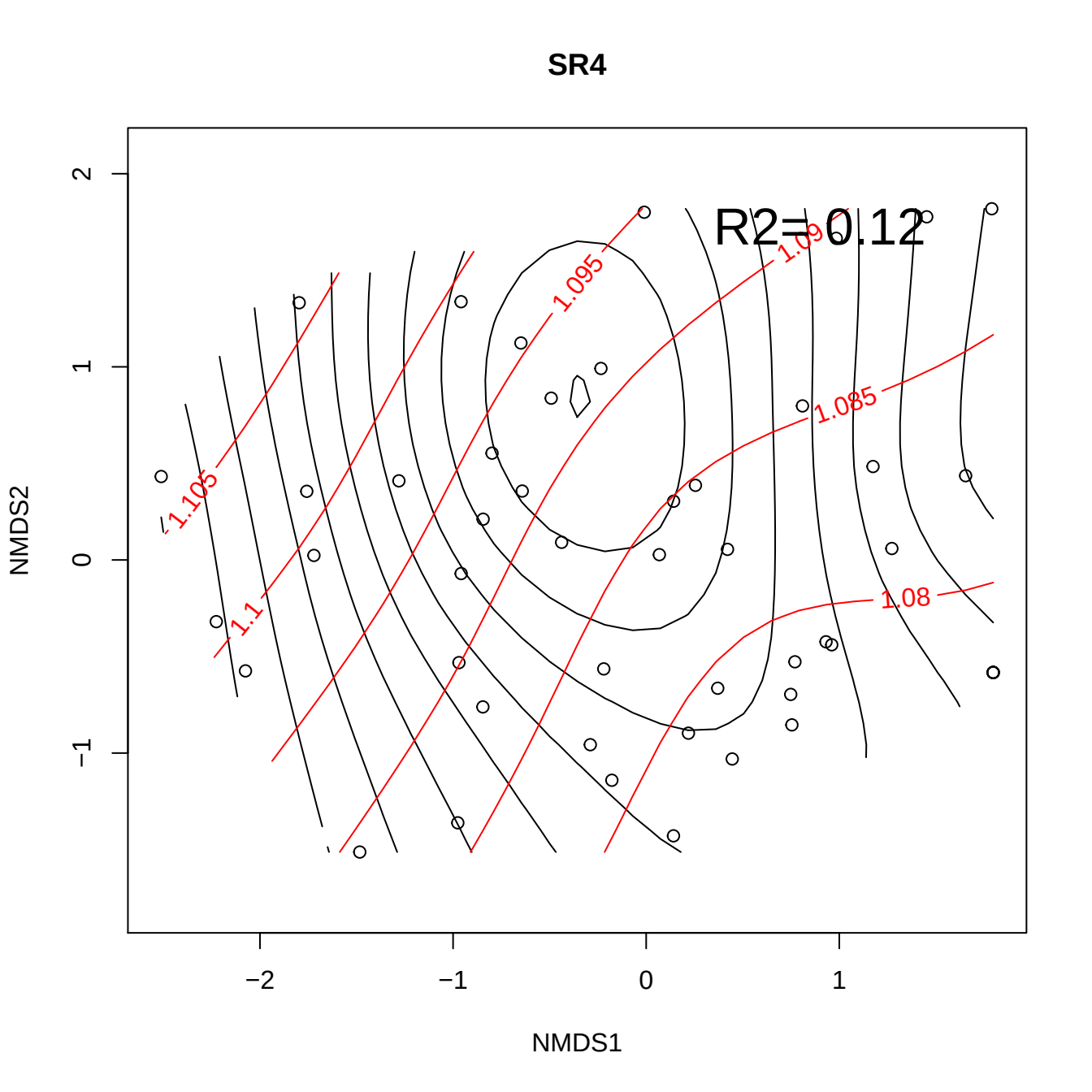

SPVI
R2= 0
10.5725
10.57195
10.5719
10.57205
10.5721
10.572
NMDS1
NMDS2
−2
−1
0
1
2

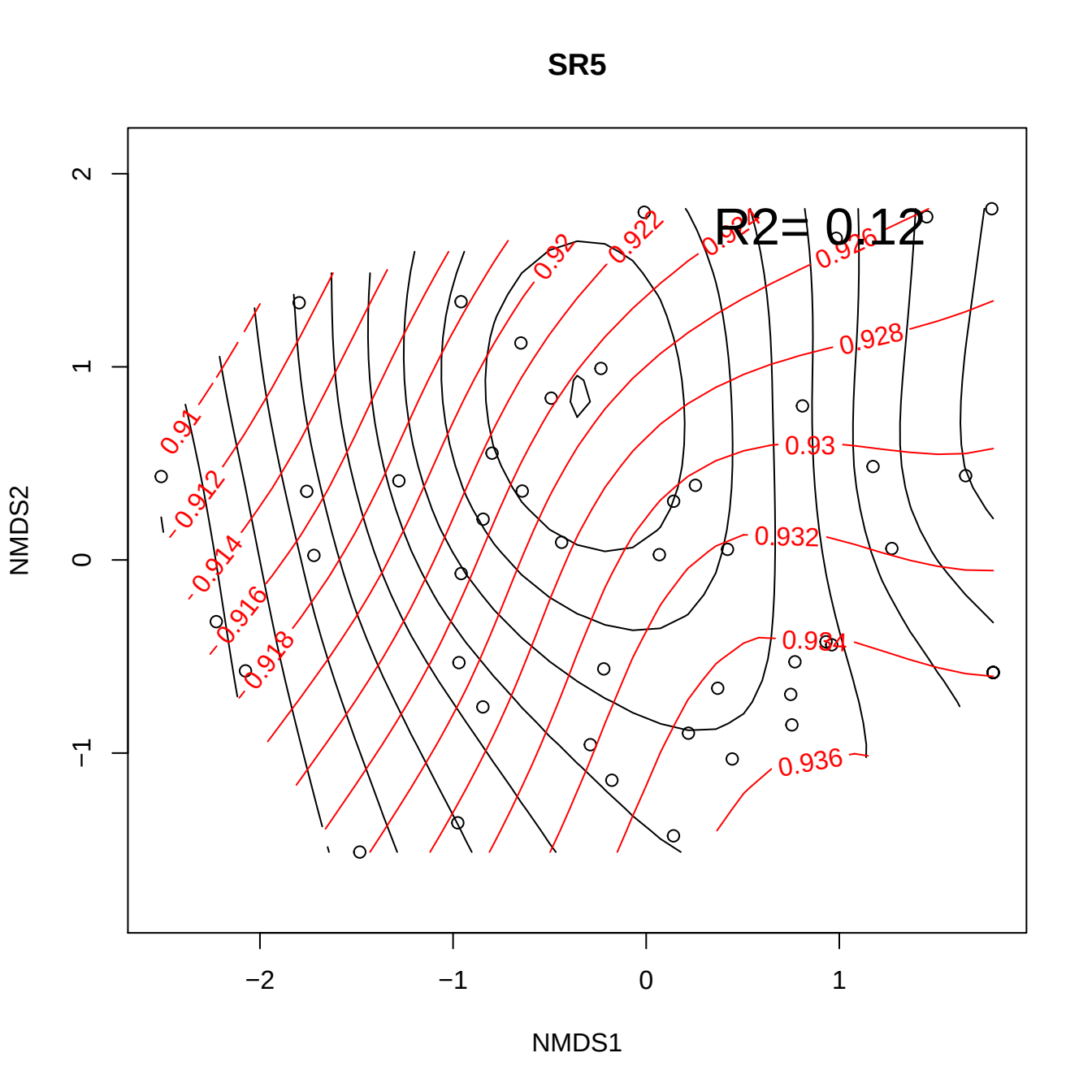

SR
R2=0.1
1.51
1.5
1.49
1.48
1.47
1.46
1.45
1.44
1.43
1.42
1.41
NMDS1
NMDS2
−2
−1
0
1
2

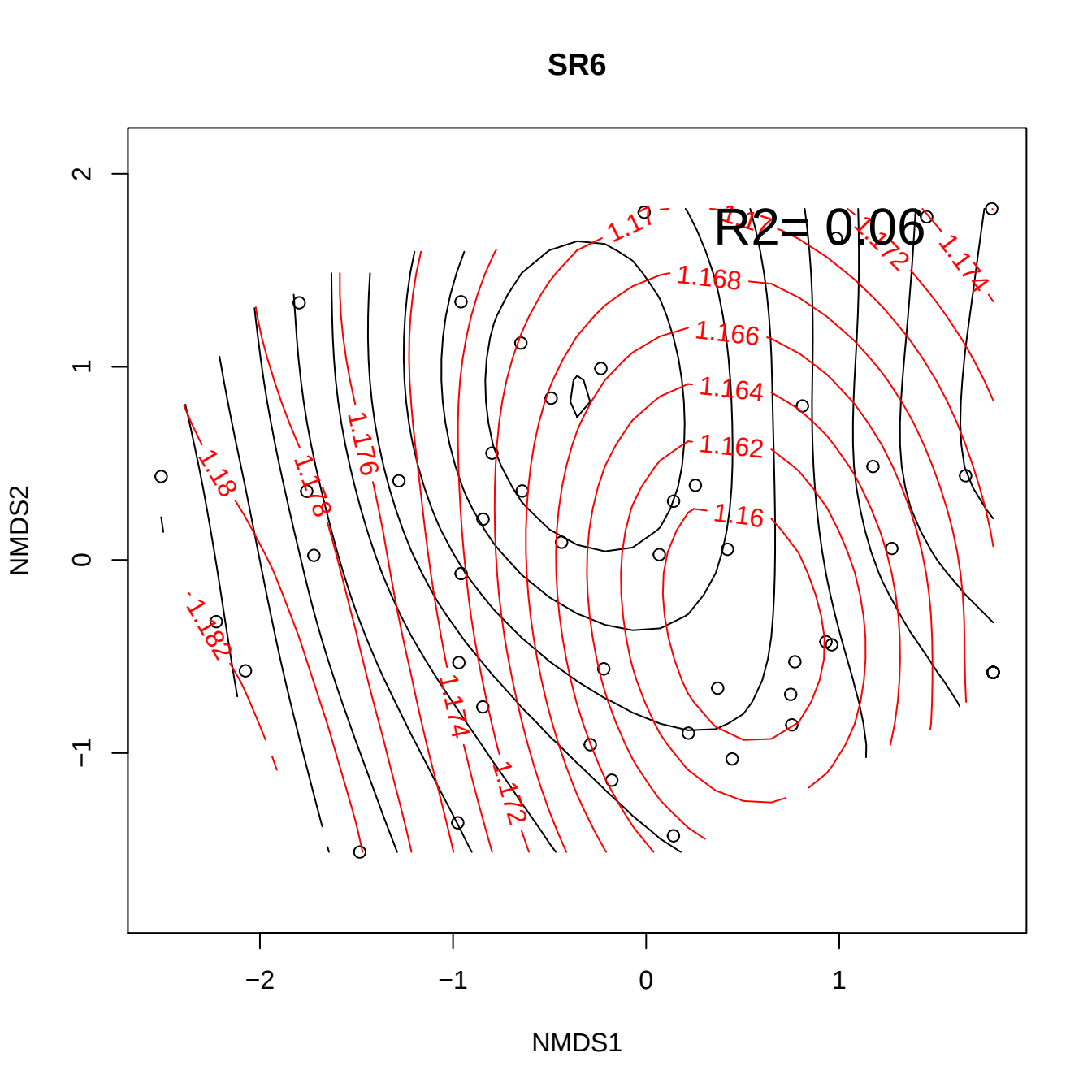

SR1
R2= 0.02
1.244
1.242
1.24
1.238
1.236
1.234
1.232
1.23
1.228
1.226
NMDS1
NMDS2
−2
−1
0
1
2

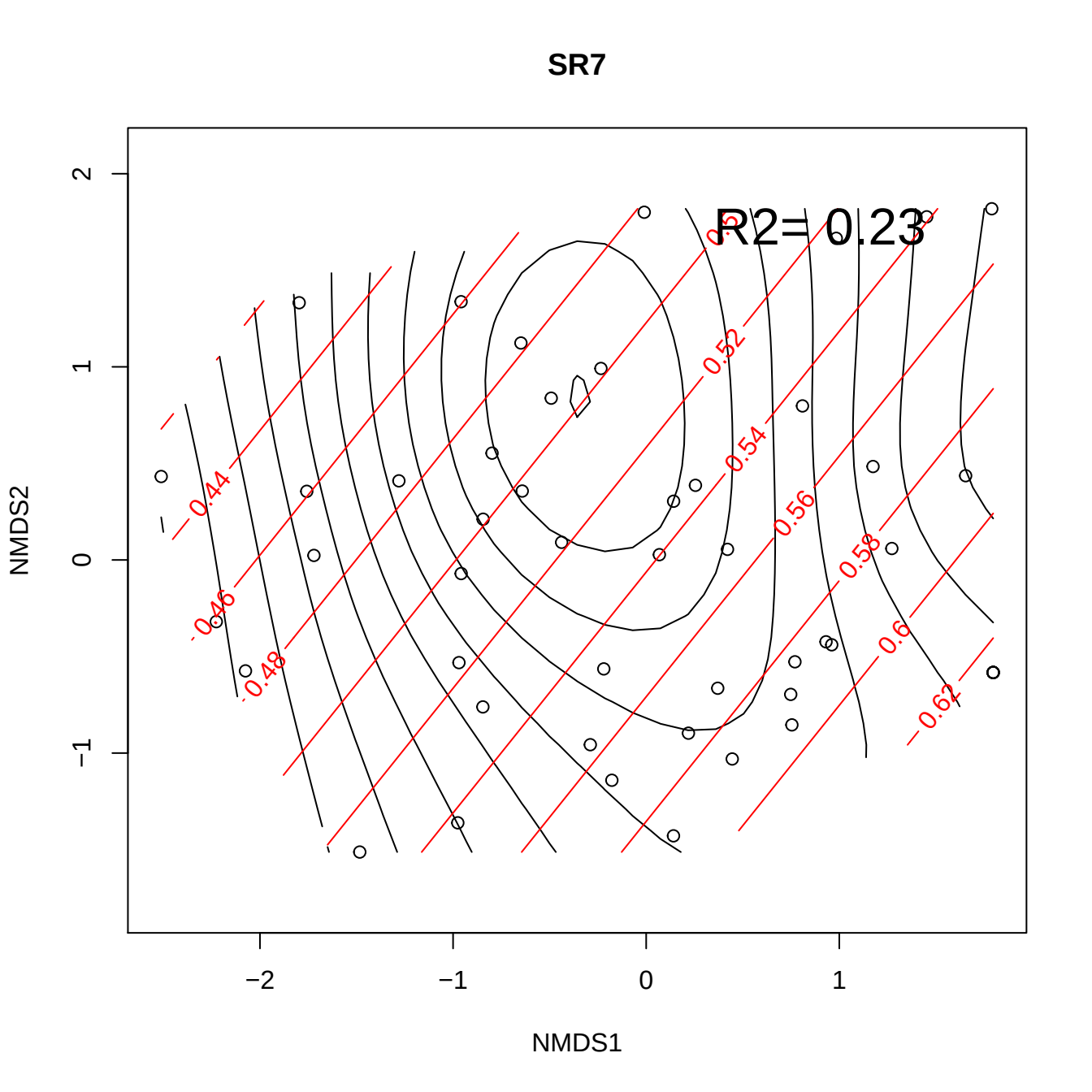

SR2
R2= 0.02
1.282
1.278
1.276
1.274
1.286
1.284
NMDS1
NMDS2
−2
−1
0
1
2

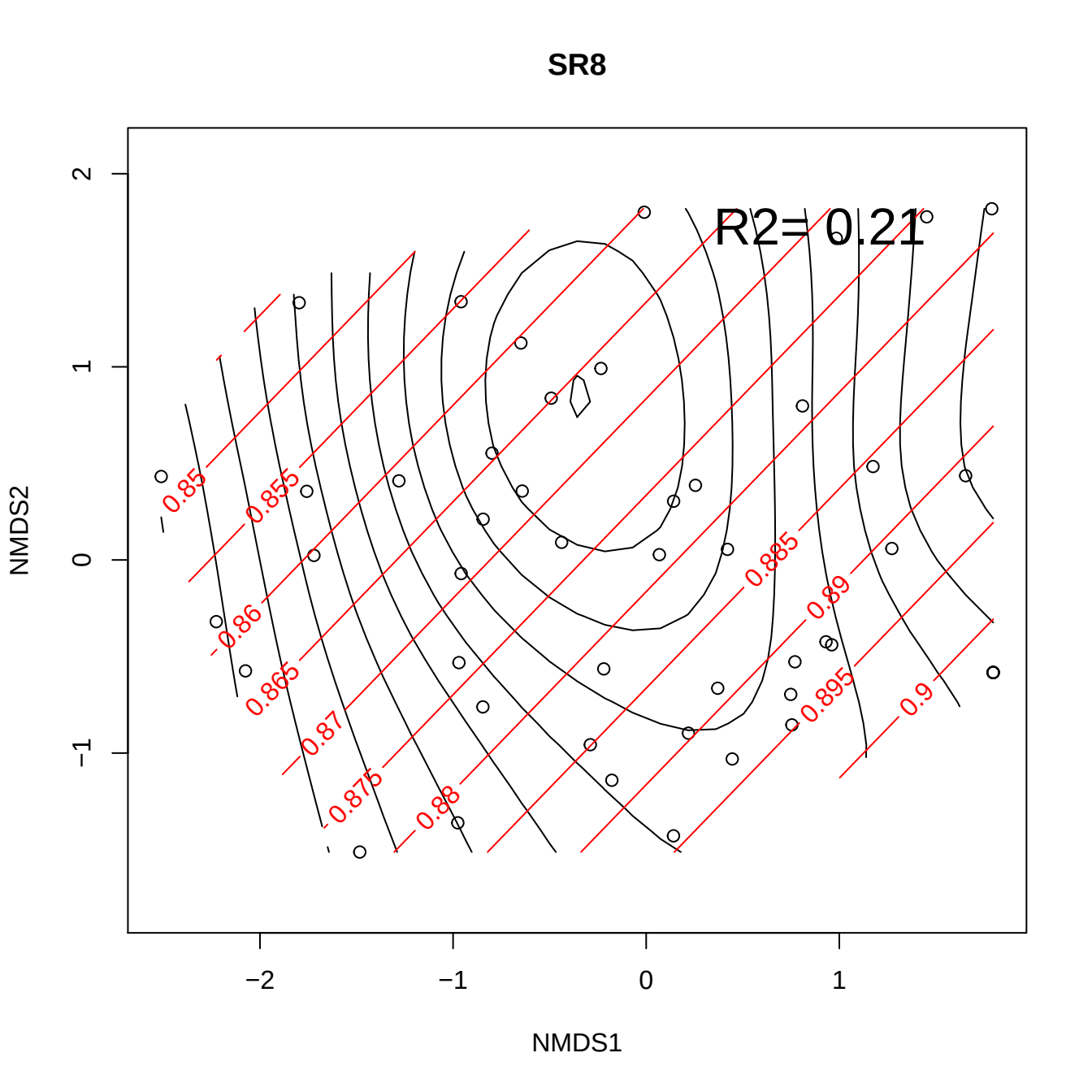

SR3
R2= 0.25
1.7
1.6
1.8
2.2
2.1
2
1.9
1.8
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

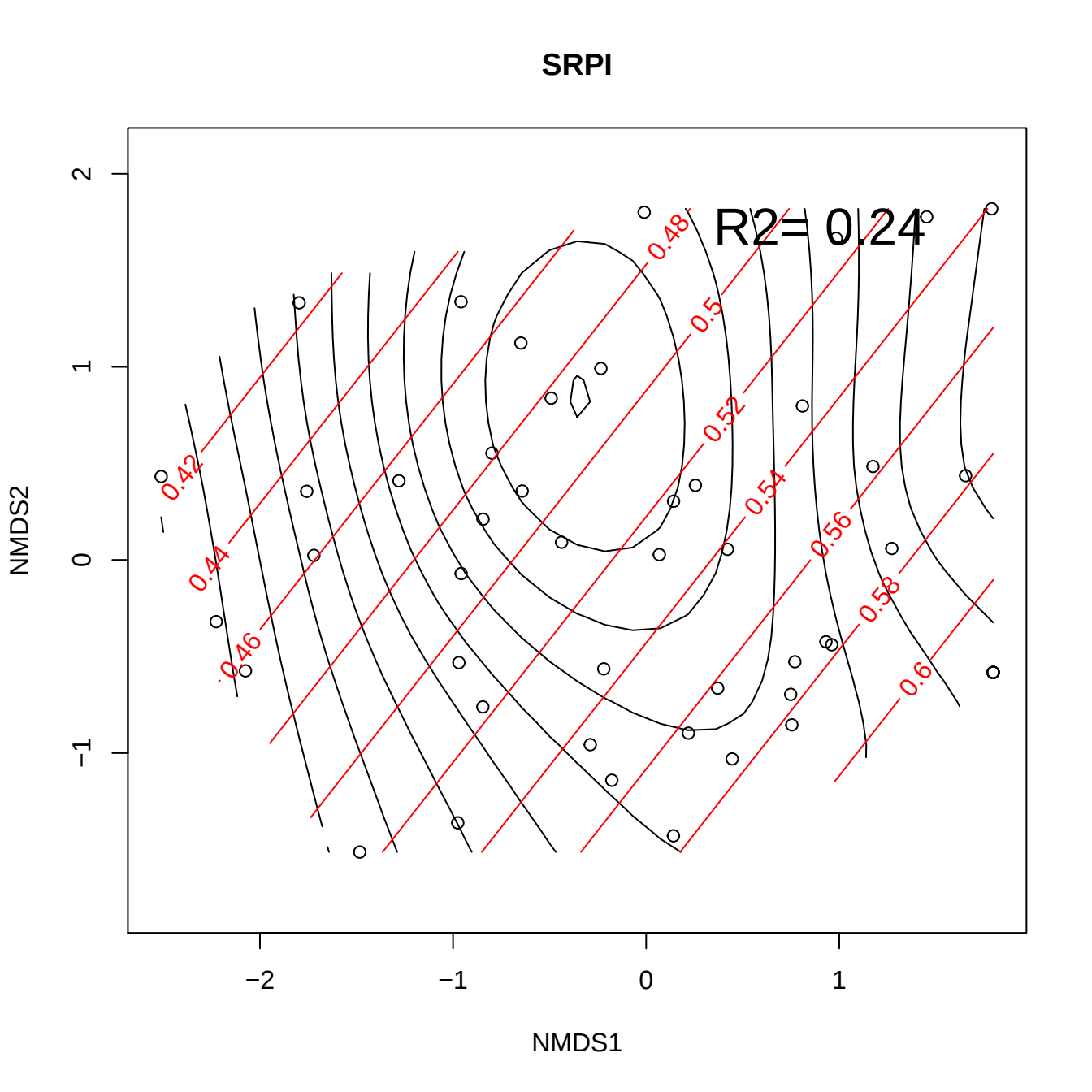

SR4
R2= 0.12
1.105
1.1
1.095
1.09
1.085
1.08
NMDS1
NMDS2
−2
−1
0
1
2

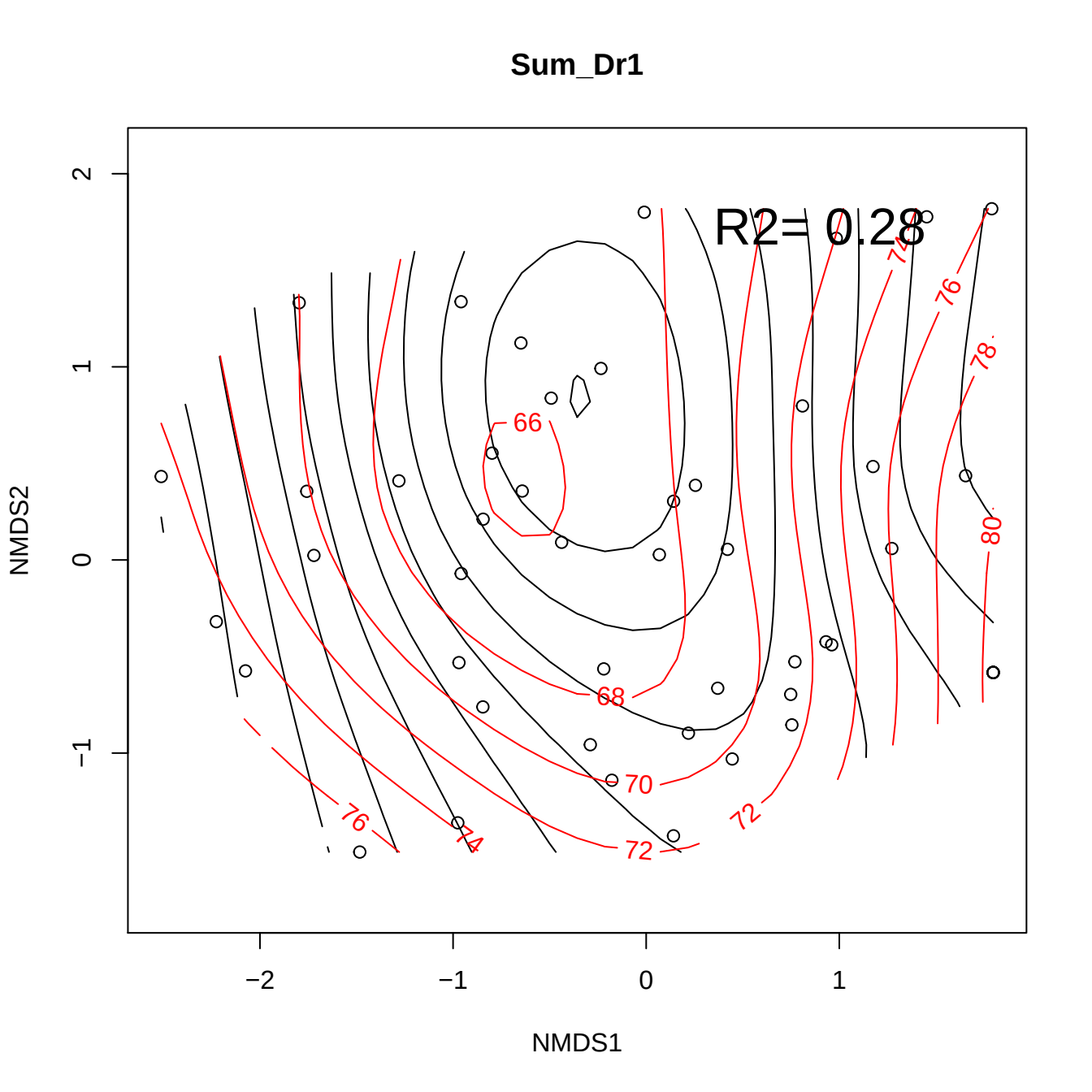

SR5
R2= 0.12
NMDS1
NMDS2
−2
−1
0
1
2
0.91
0.912
0.914
0.916
0.918
0.92
0.922
0.924
0.926
0.928
0.93
0.932
0.934
0.936

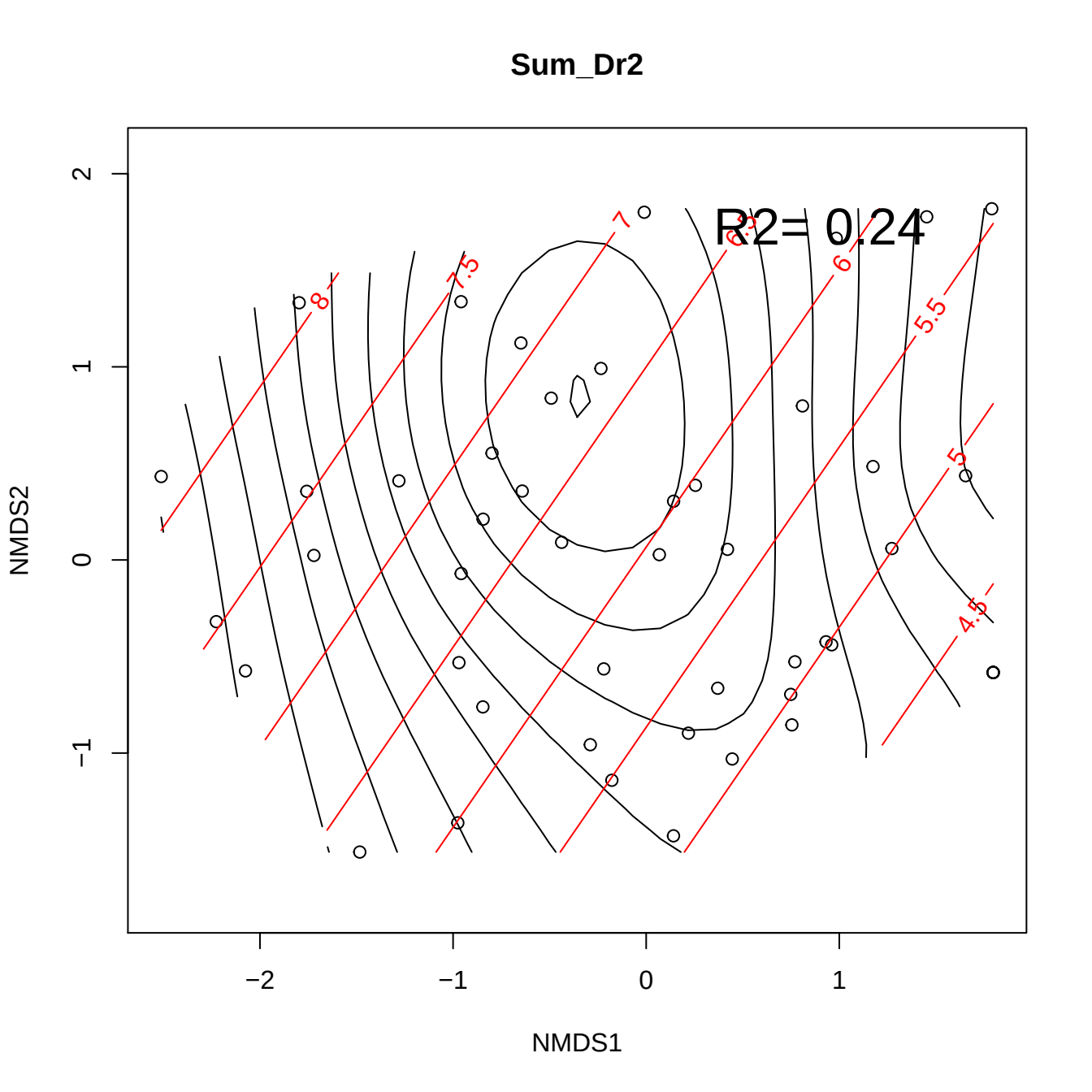

SR6
R2= 0.06
1.168
1.166
1.164
1.162
1.16
1.18
1.178
1.176
1.174
1.172
1.182
NMDS1
NMDS2
−2
−1
0
1
2

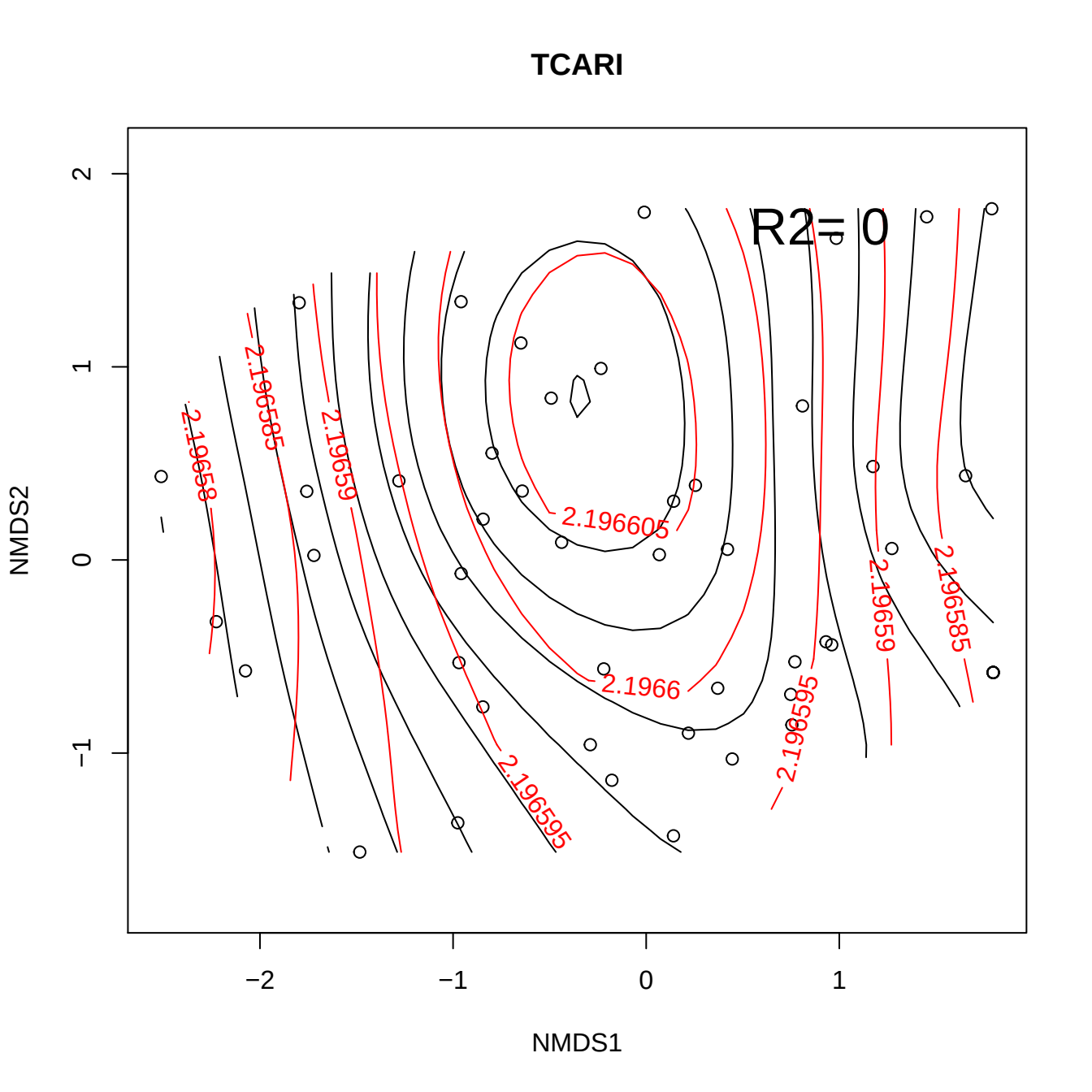

SR7
R2= 0.23
0.44
0.46
0.48
0.52
0.54
0.56
0.58
0.6
0.62
NMDS1
NMDS2
−2
−1
0
1
2

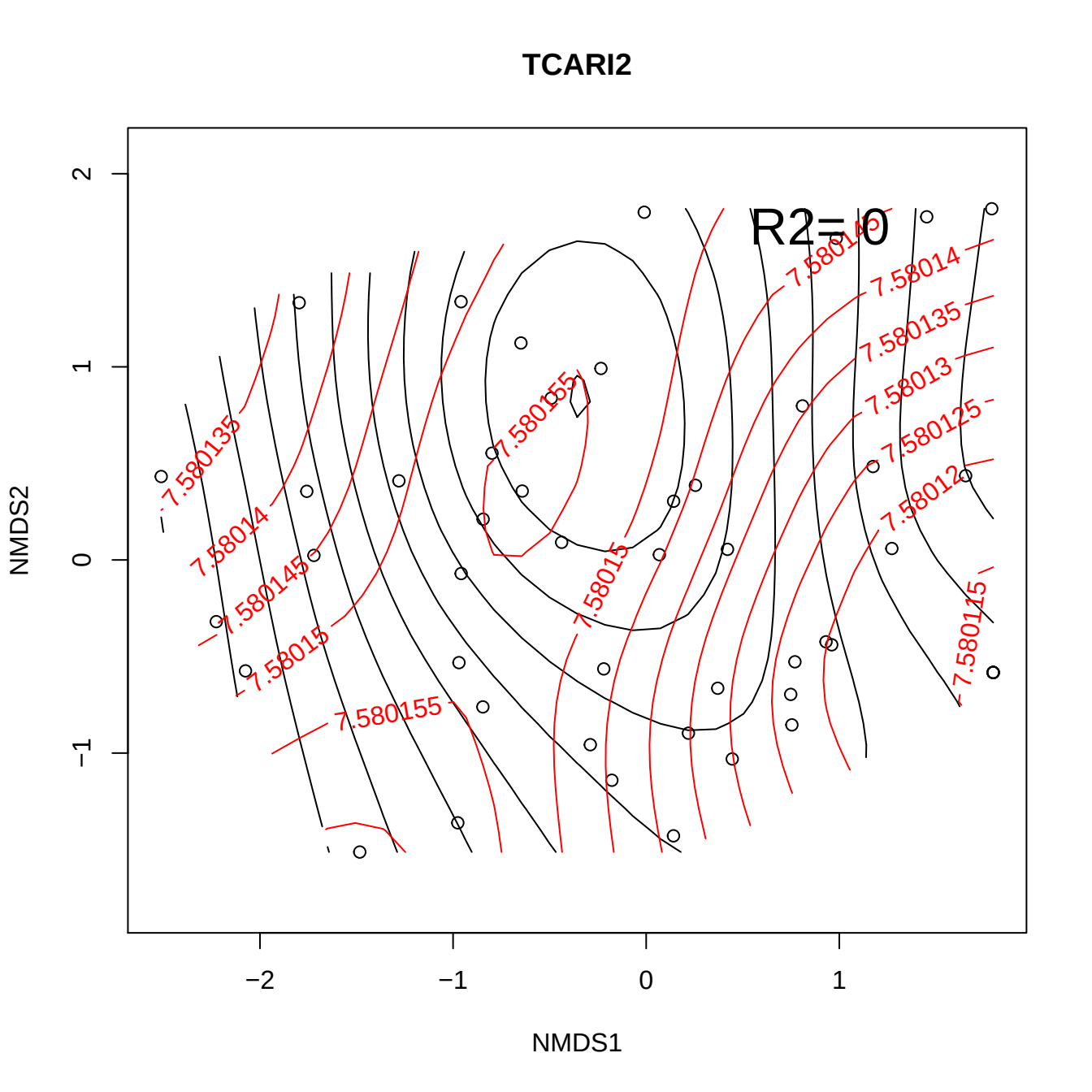

SR8
R2= 0.21
NMDS1
NMDS2
−2
−1
0
1
2
0.85
0.855
0.86
0.865
0.87
0.875
0.88
0.885
0.89
0.895
0.9

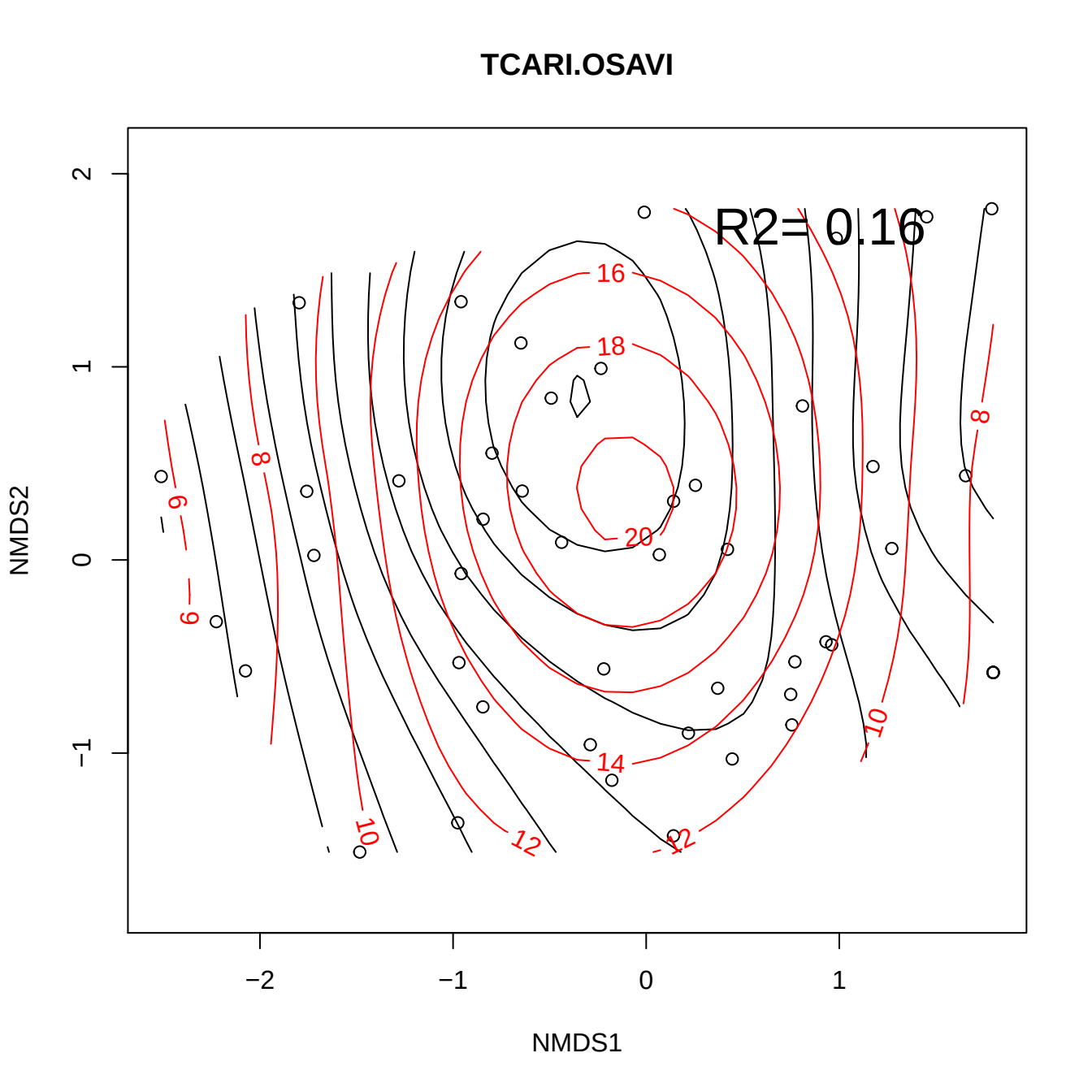

SRPI
R2= 0.24
0.42
0.44
0.46
0.48
0.5
0.52
0.54
0.56
0.58
0.6
NMDS1
NMDS2
−2
−1
0
1
2

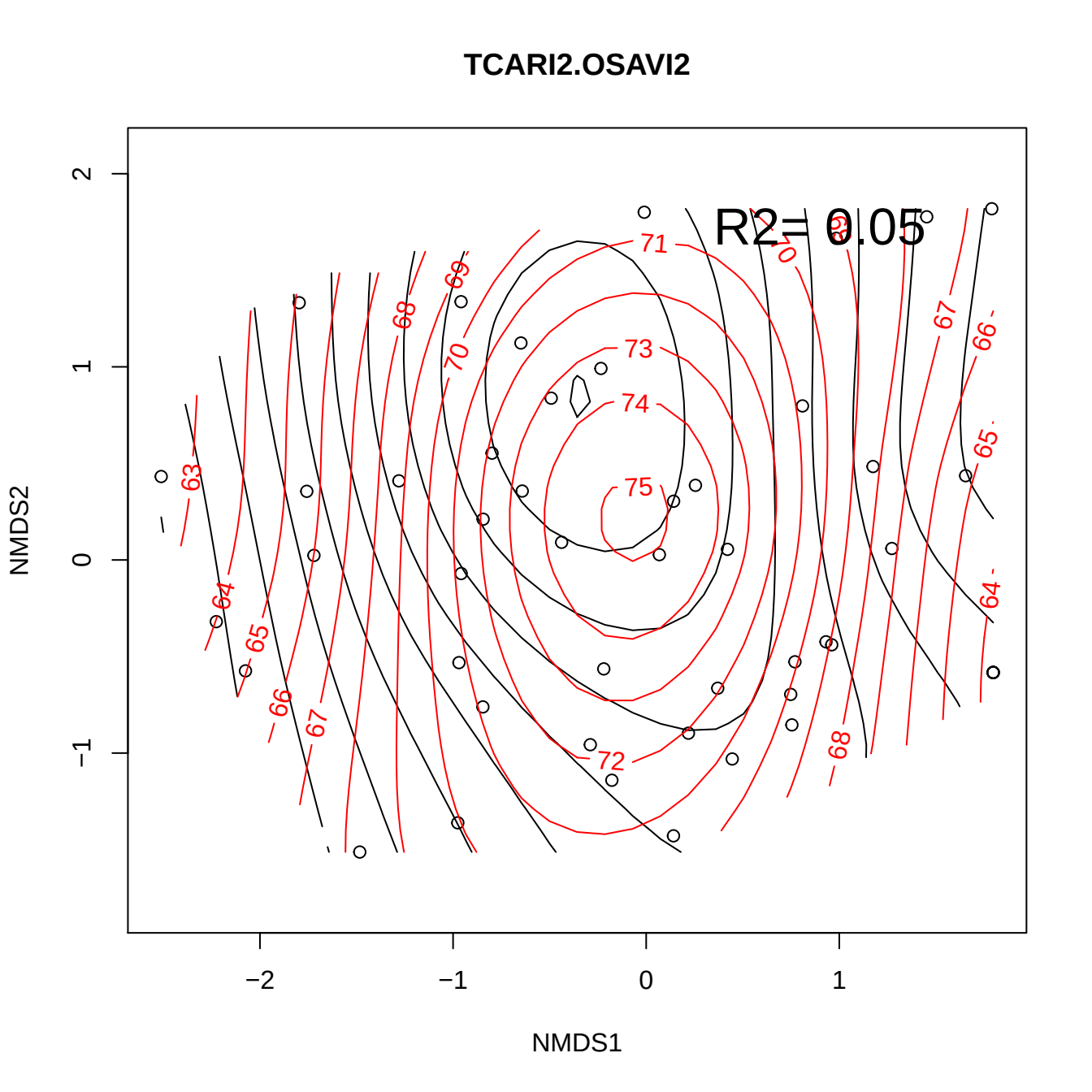

Sum_Dr1
R2= 0.28
NMDS1
NMDS2
−2
−1
0
1
2
66
68
70
72
74
76
78
80

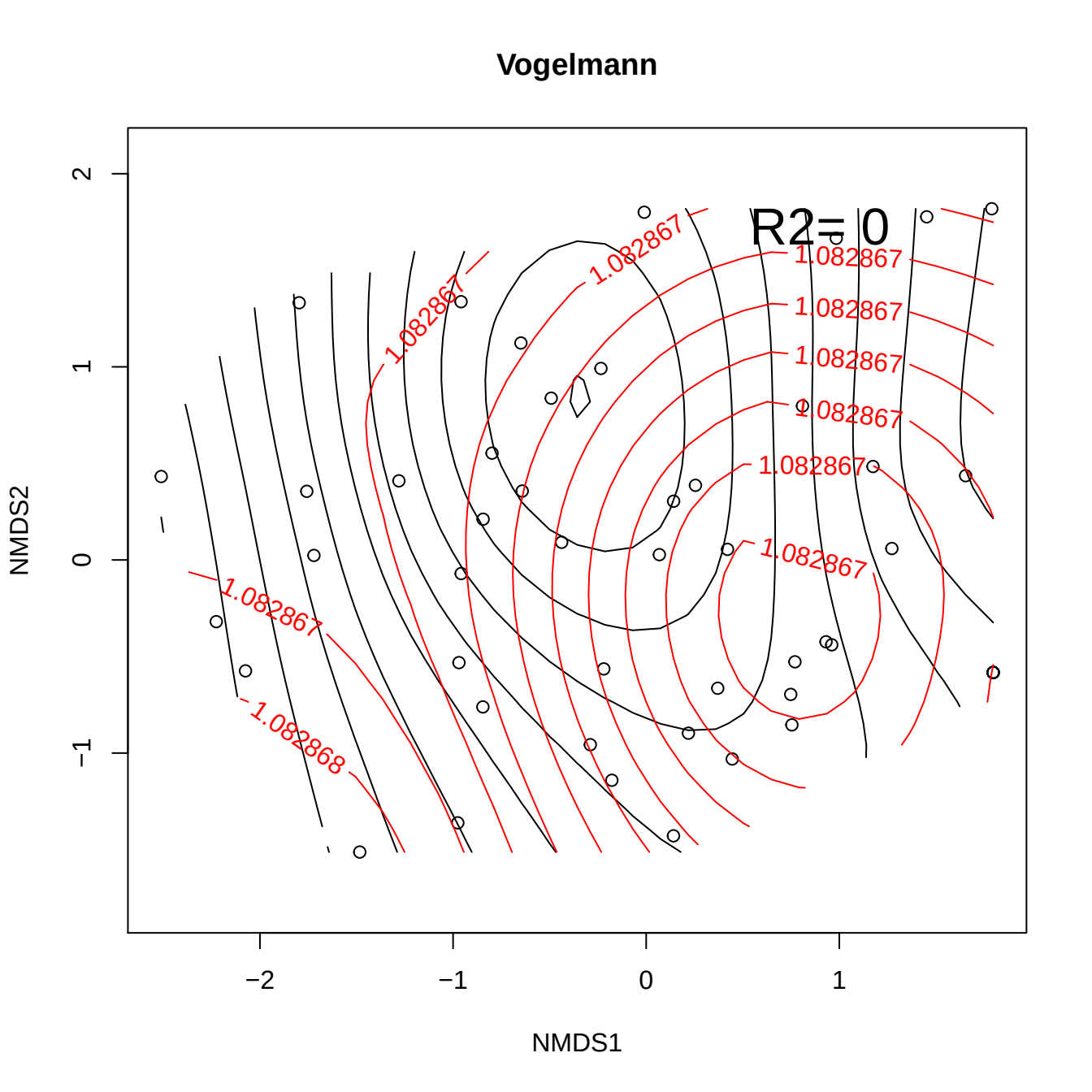

Sum_Dr2
R2= 0.24
8
7.5
7
6.5
6
5.5
5
4.5
NMDS1
NMDS2
−2
−1
0
1
2

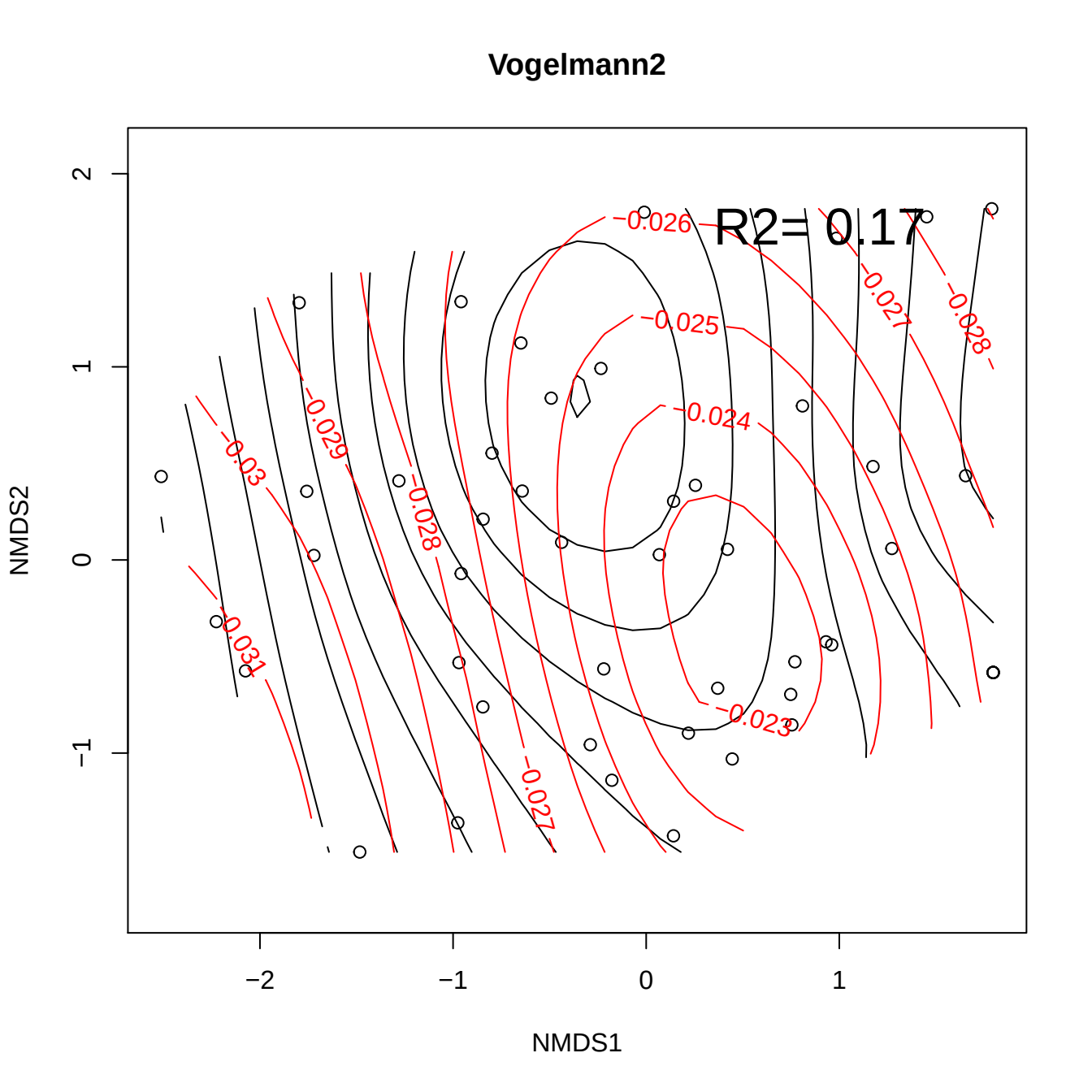

TCARI
R2= 0
2.196605
2.1966
2.196595
2.196585
2.196559
2.196558
NMDS1
NMDS2
−2
−1
0
1
2

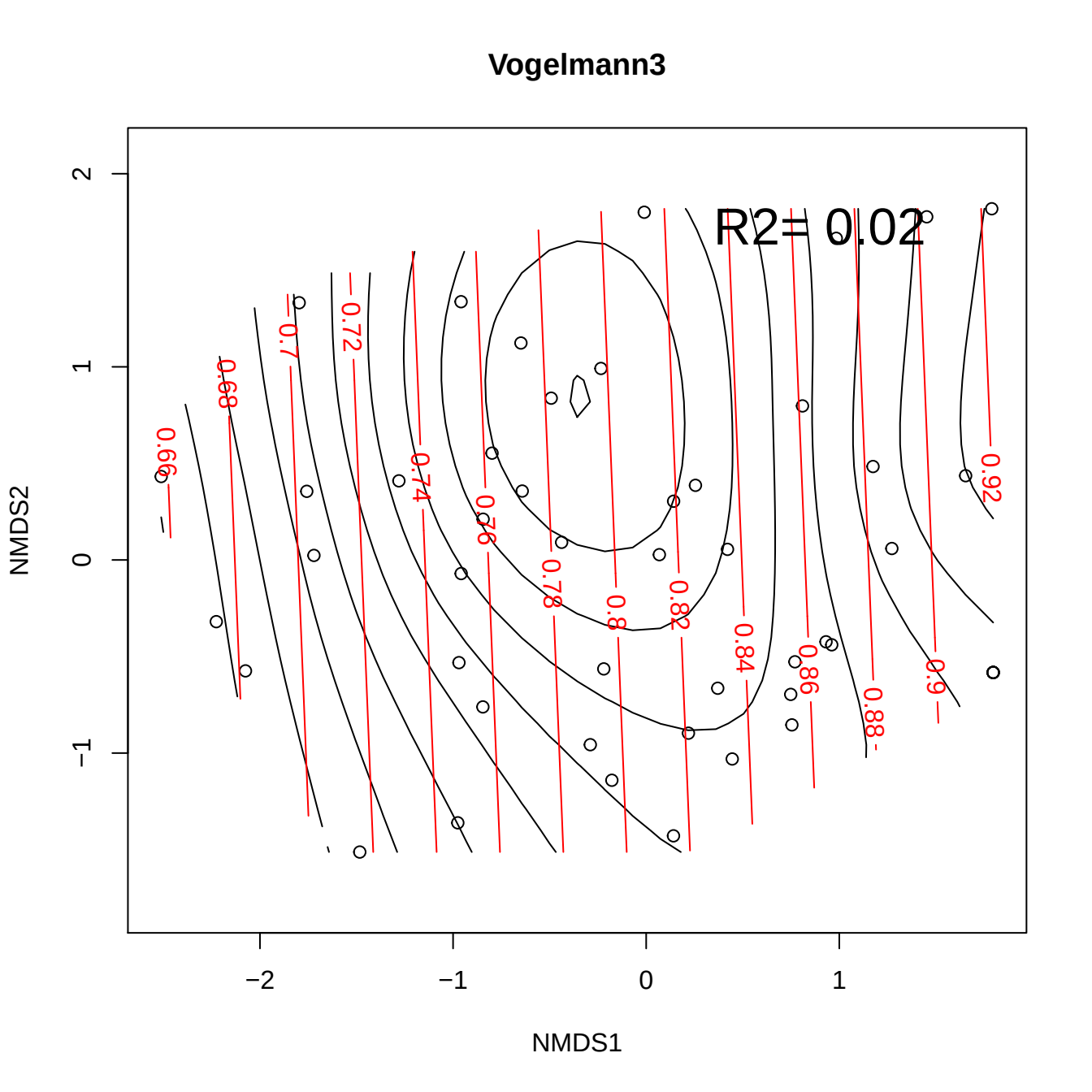

TCARI2
R2=0
7.580135
7.58014
7.580145
7.58015
7.580155
7.58014
7.580135
7.58013
7.580125
7.58012
7.580115
NMDS1
NMDS2
−2
−1
0
1
2

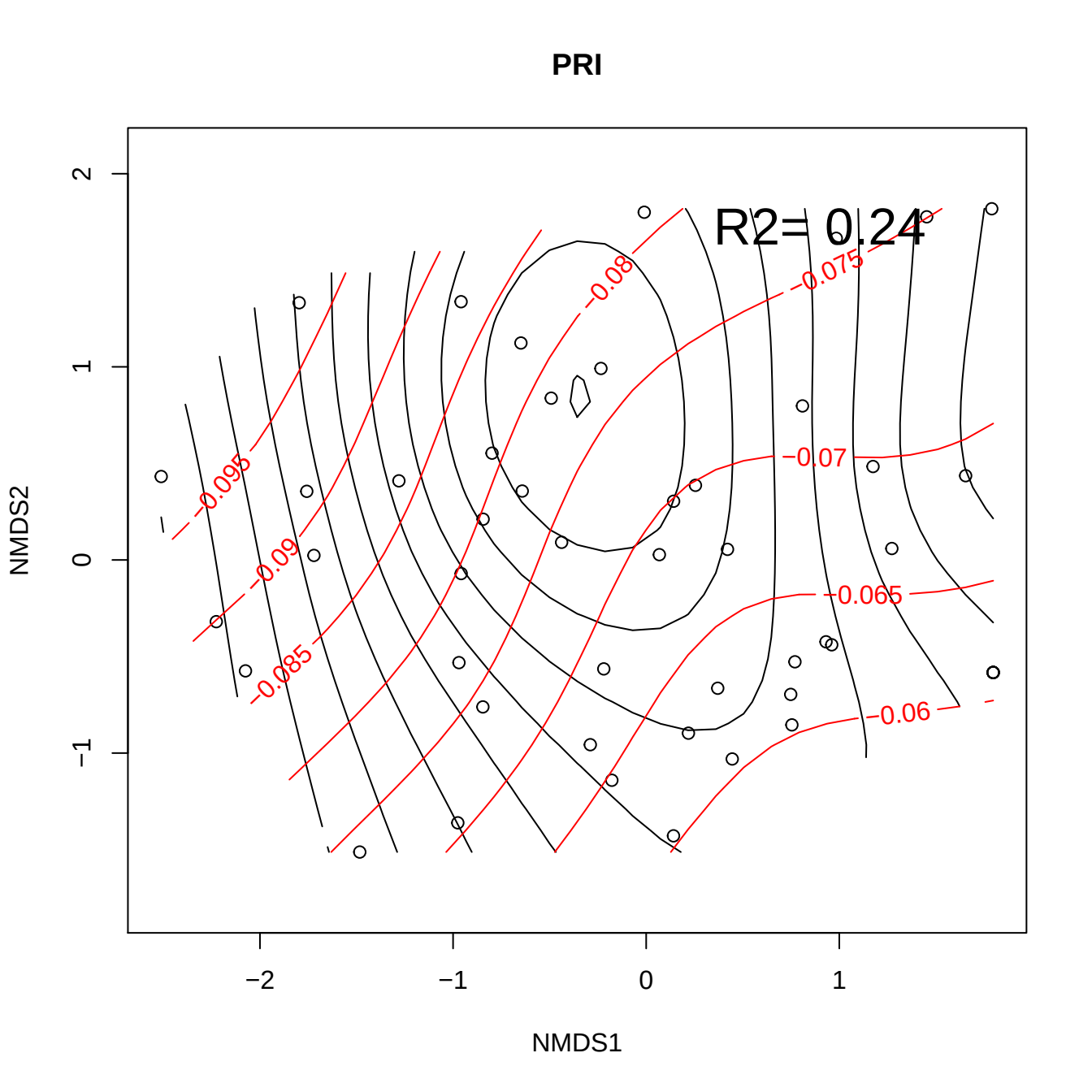

TCARI.OSAVI
R2= 0.16
NMDS1
NMDS2
−2
−1
0
1
2
6
8
10
12
14
16
18
20

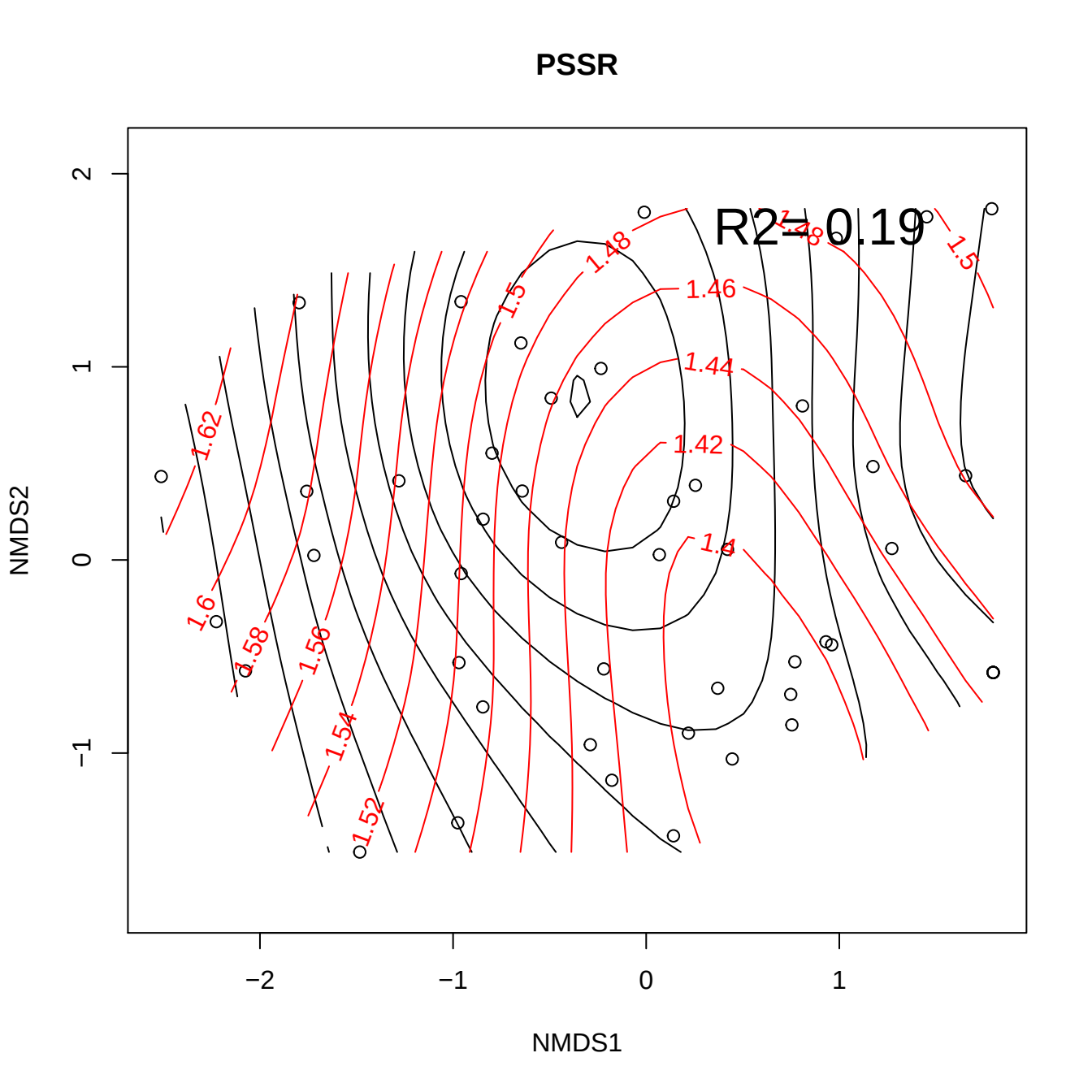

TCARI2.OSAVI2
R2= 0.05
NMDS1
NMDS2
−2
−1
0
1
2
63
64
65
66
67
68
69
70
71
72
73
74
75

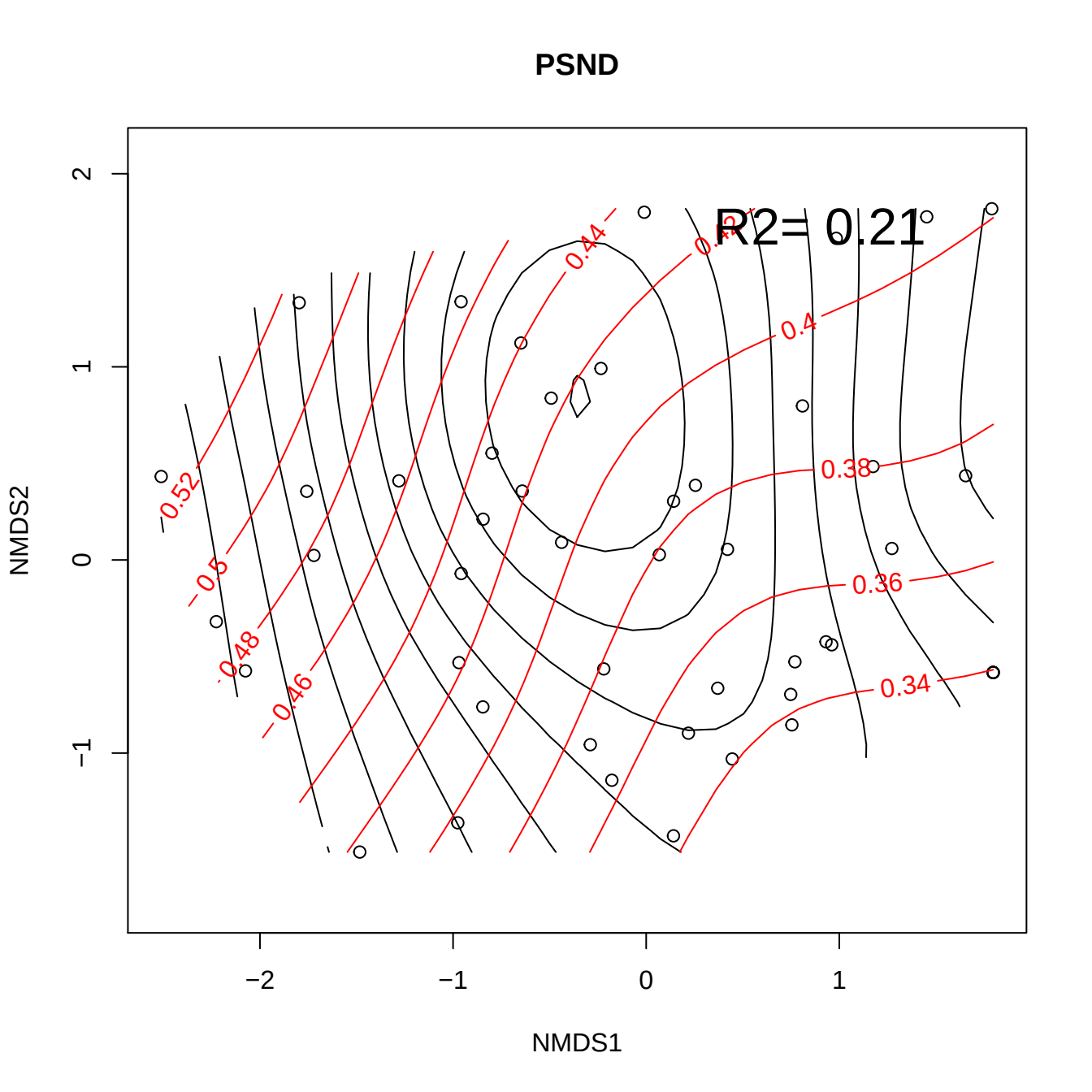

Vogelmann
R2= 0
1.082867
1.082867
1.082867
1.082867
1.082867
1.082867
1.082867
1.082867
1.082868
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

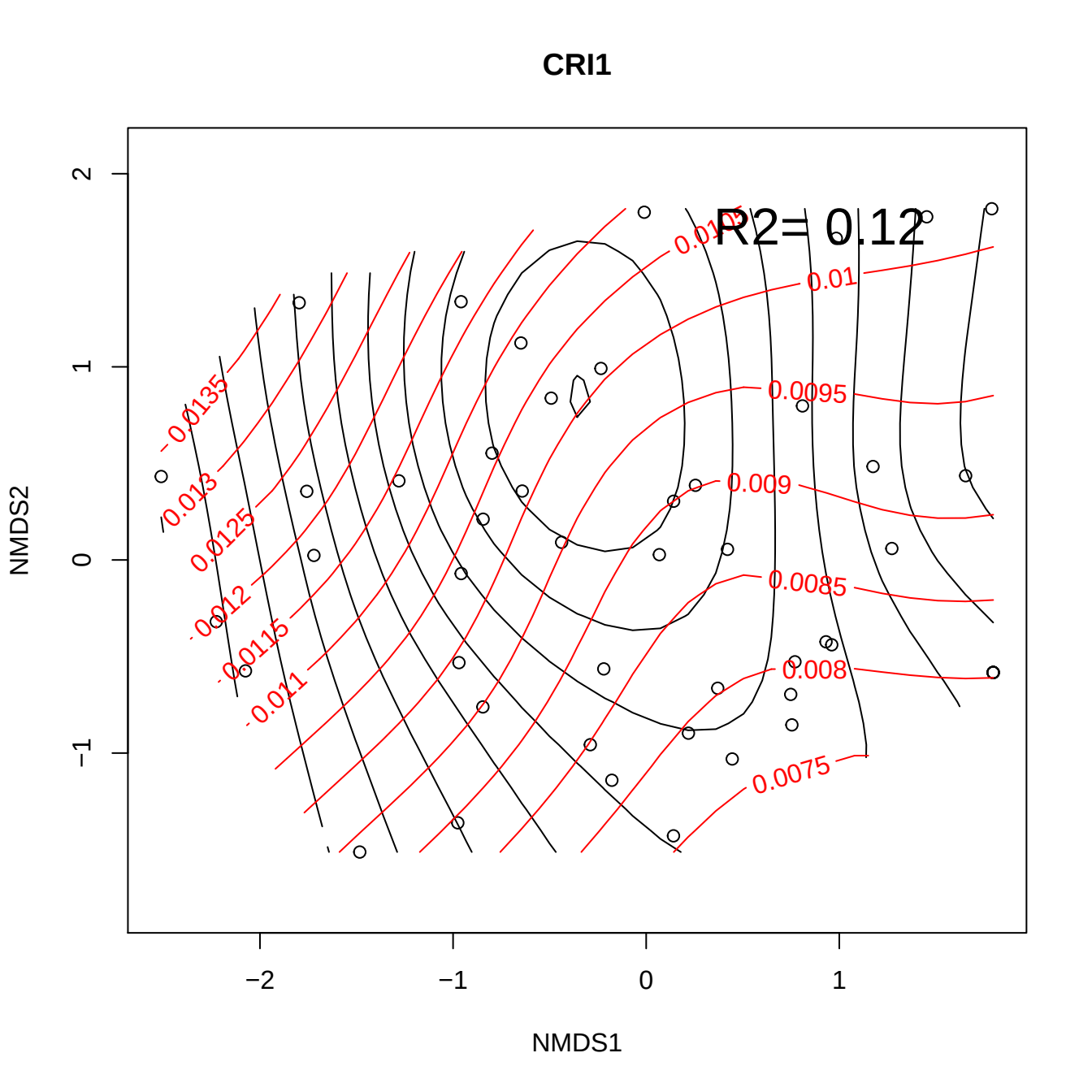

Vogelmann2
R2= 0.17
−0.026
−0.025
−0.024
−0.023
−0.027
−0.028
−0.029
−0.03
−0.031
NMDS1
NMDS2
−2
−1
0
1
2

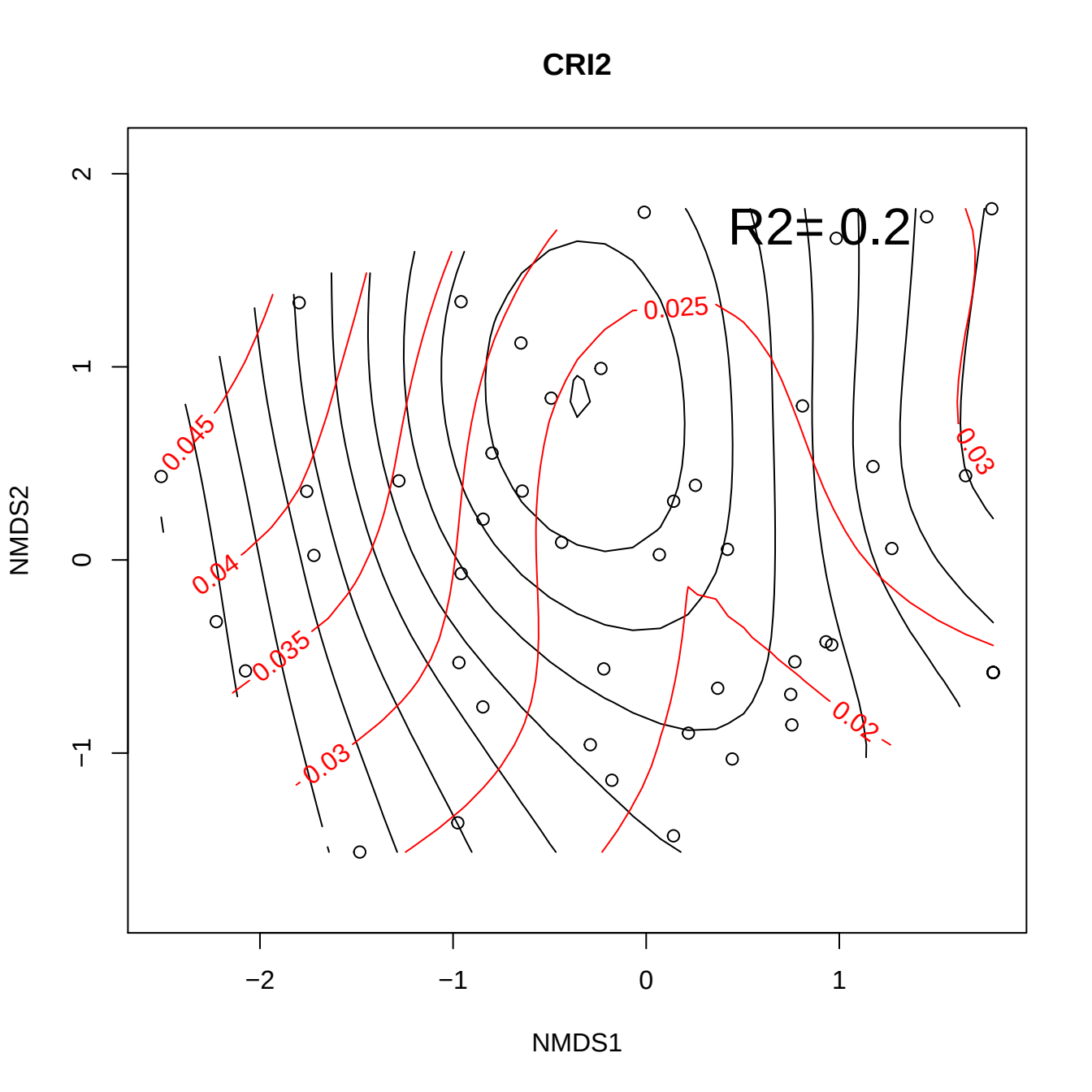

Vogelmann3
R2= 0.02
NMDS1
NMDS2
−2
−1
0
1
2
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.9
0.92

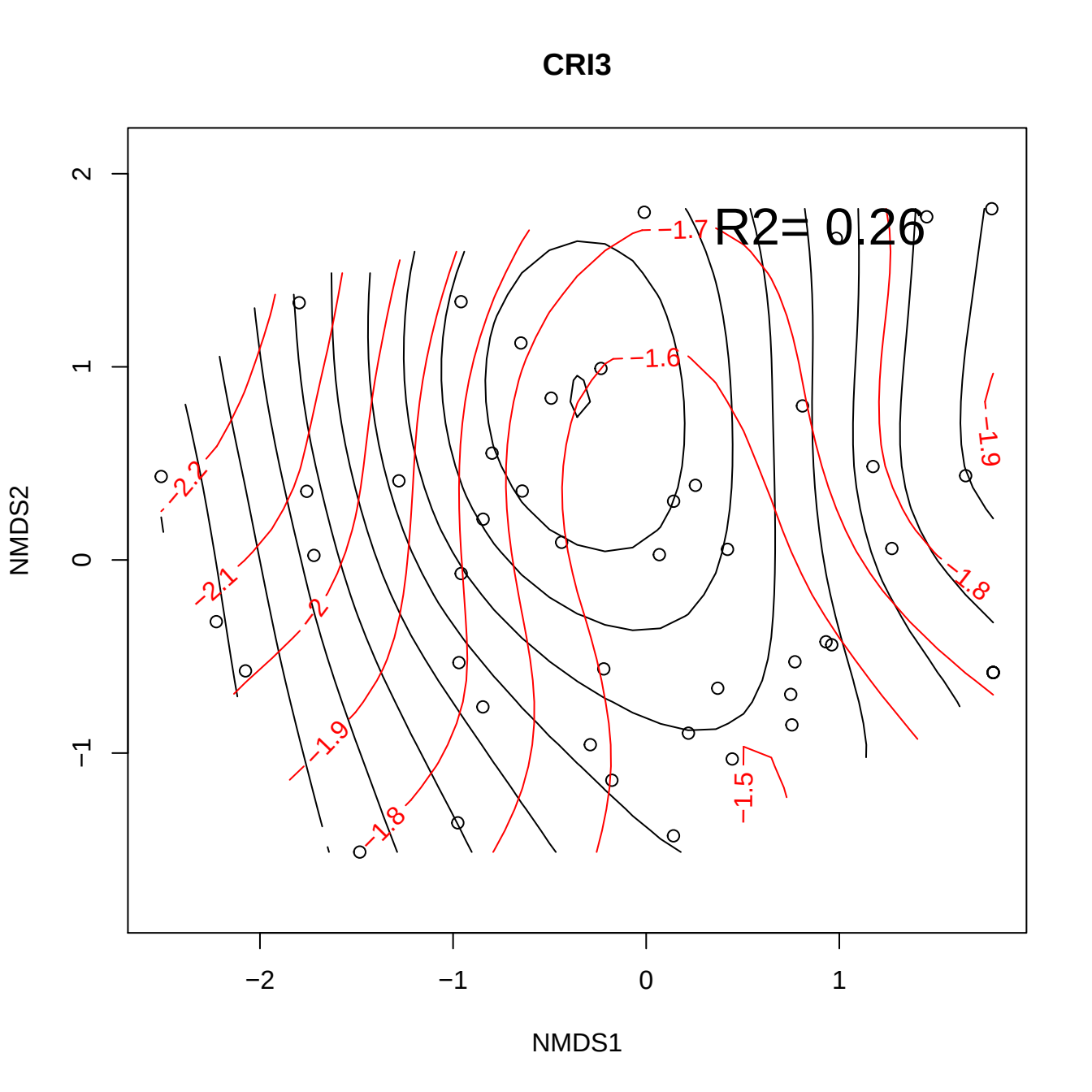

PRI
R2= 0.24
−0.095
−0.09
−0.085
−0.08
−0.075
−0.07
−0.065
−0.06
NMDS1
NMDS2
−2
−1
0
1
2

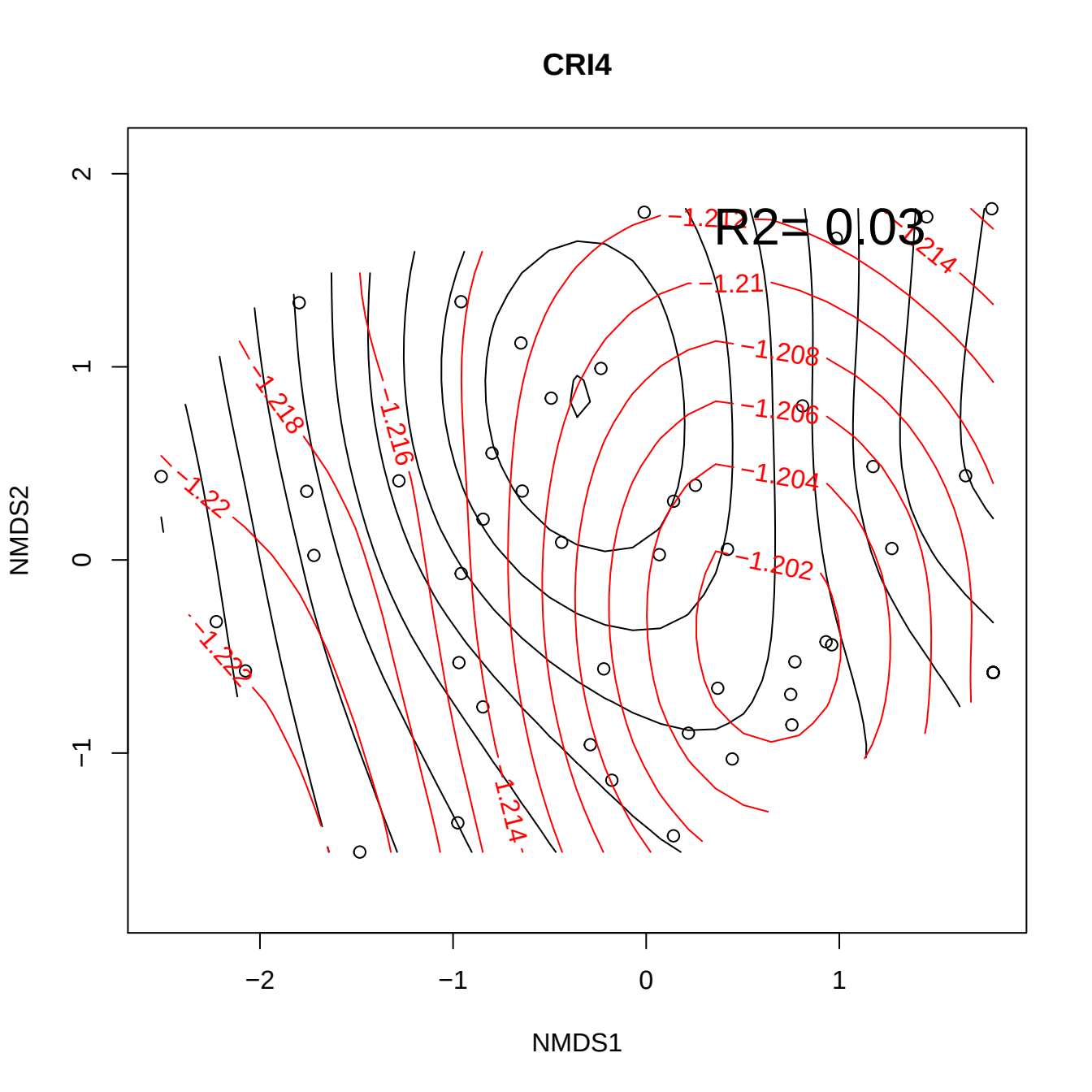

PSSR
R2=0.19
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
1.4
NMDS1
NMDS2
−2
−1
0
1
2

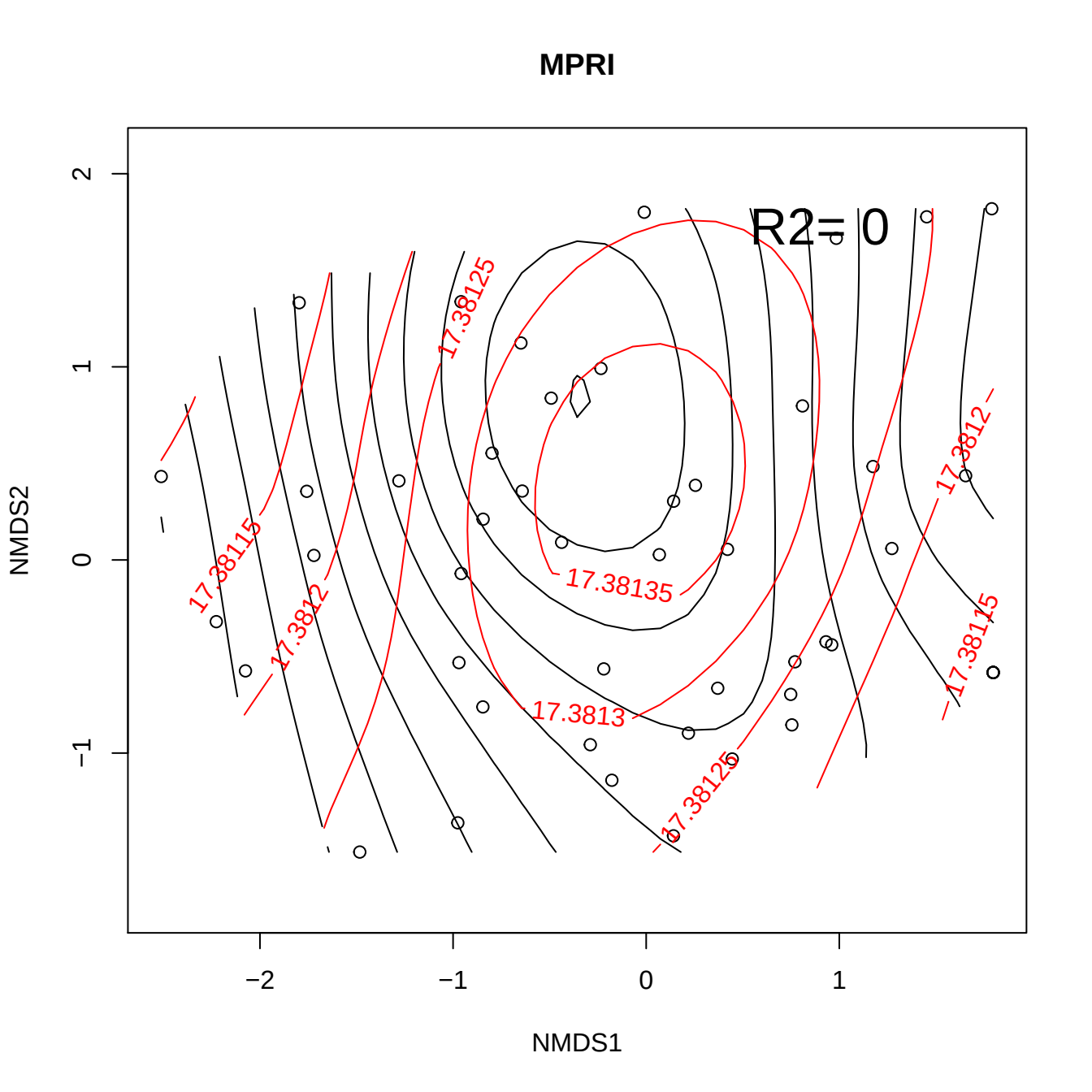

PSND
R2= 0.21
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
NMDS1
NMDS2
−2
−1
0
1
2

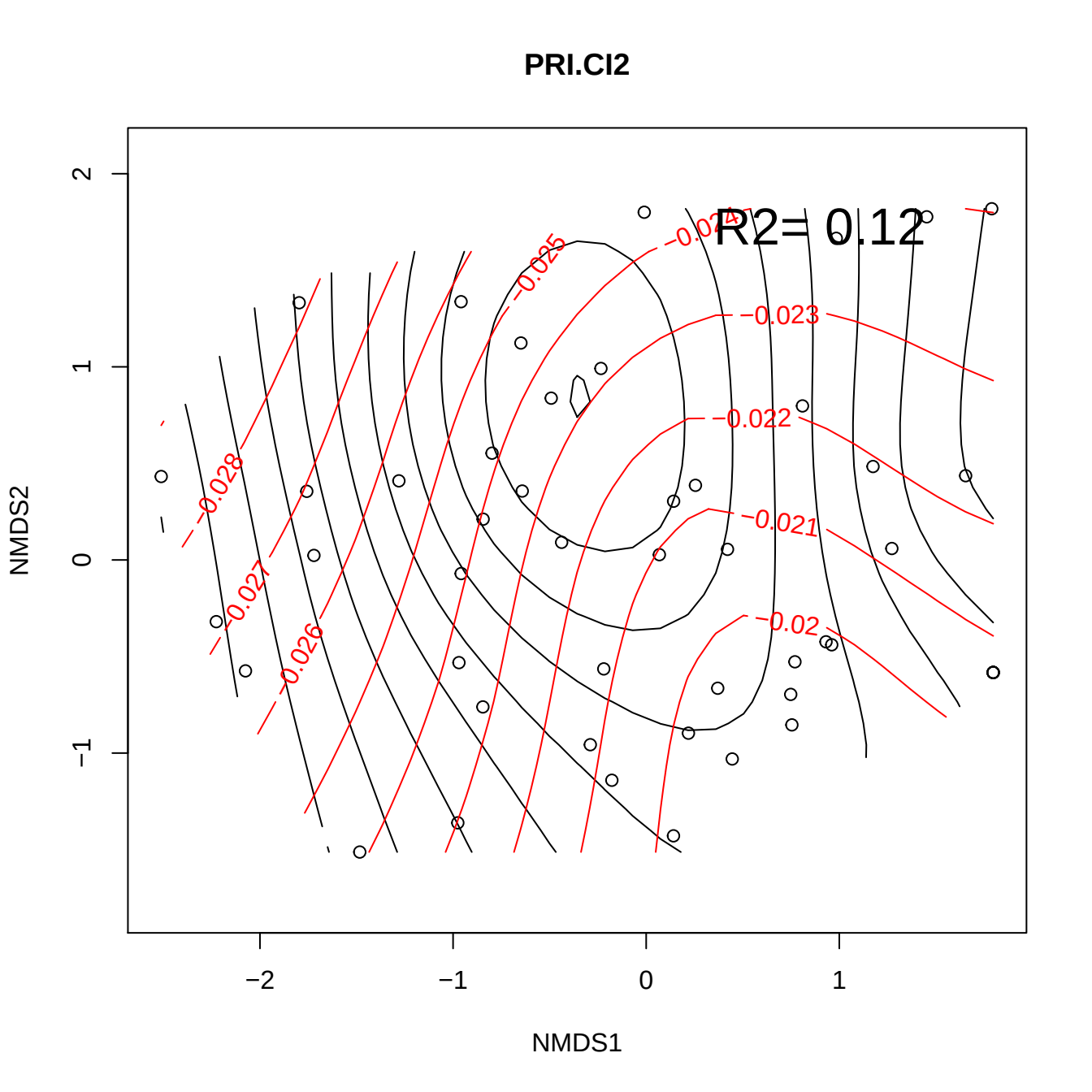

CRI1
R2= 0.12
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
NMDS1
NMDS2
−2
−1
0
1
2

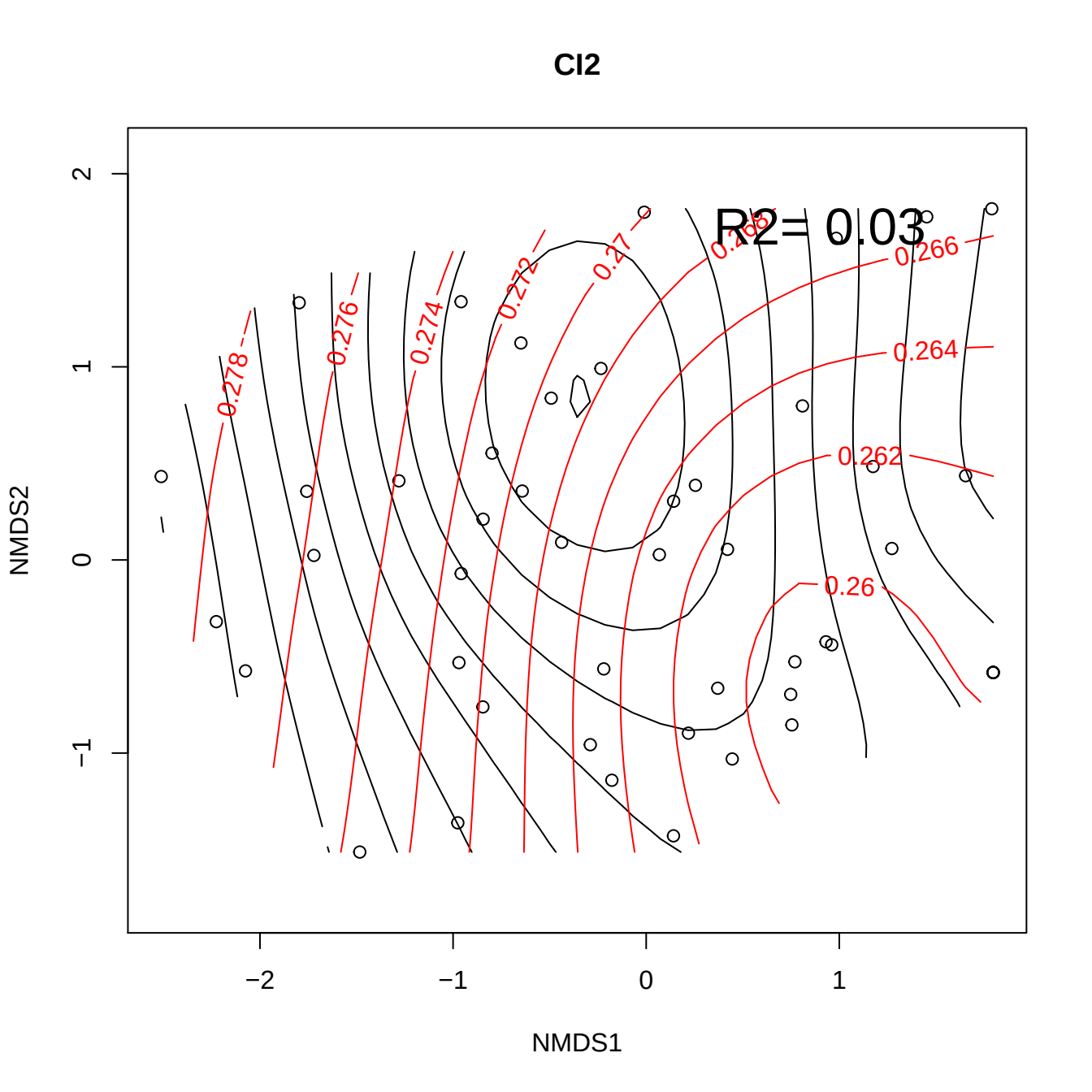

CRI2
R2=0.2
0.045
0.04
0.035
0.03
0.025
0.03
0.02
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

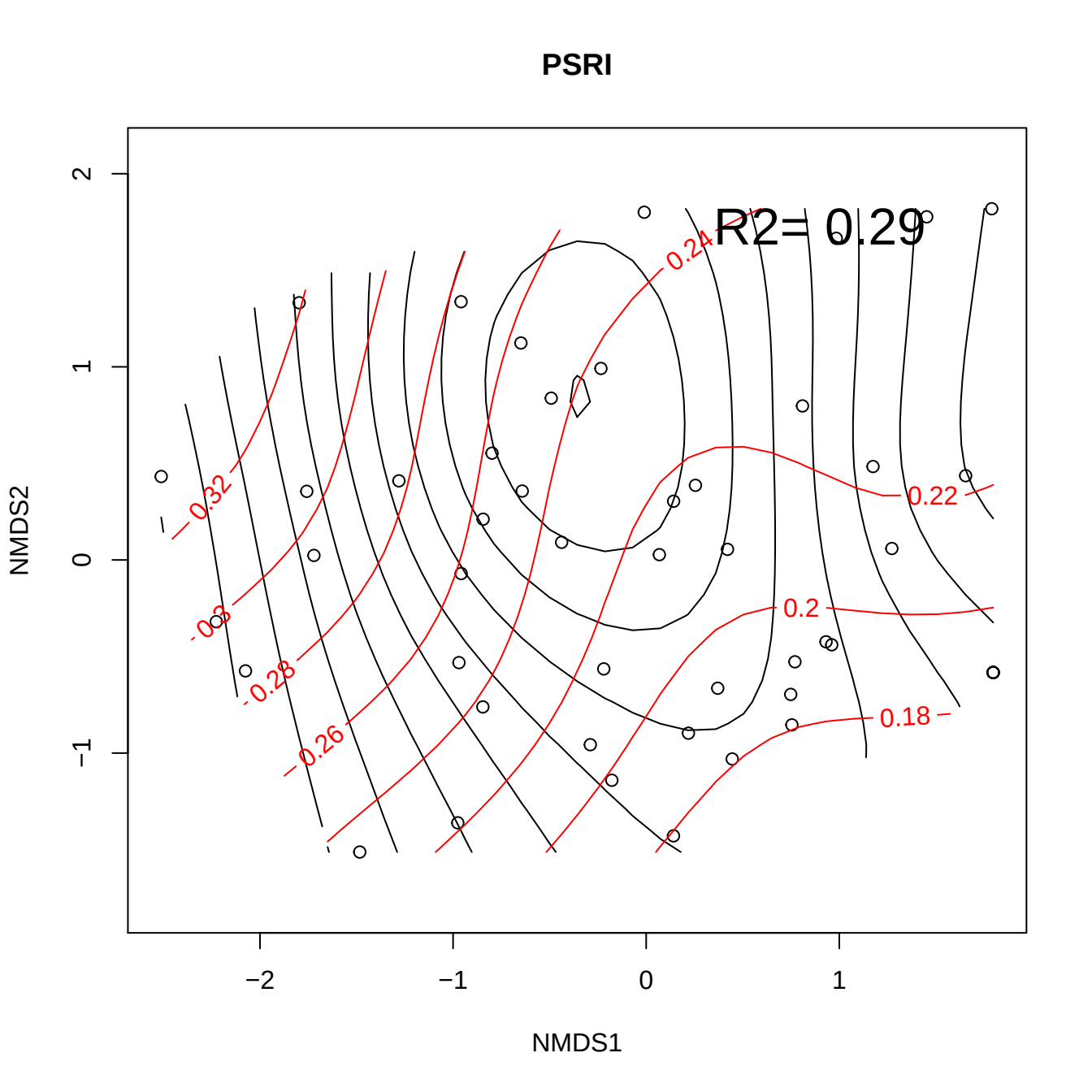

CRI3
R2= 0.26
NMDS1
NMDS2
−2
−1
0
1
2
−2.2
−2.1
−2
−1.9
−1.8
−1.7
−1.6
−1.5
−1.9
−1.8

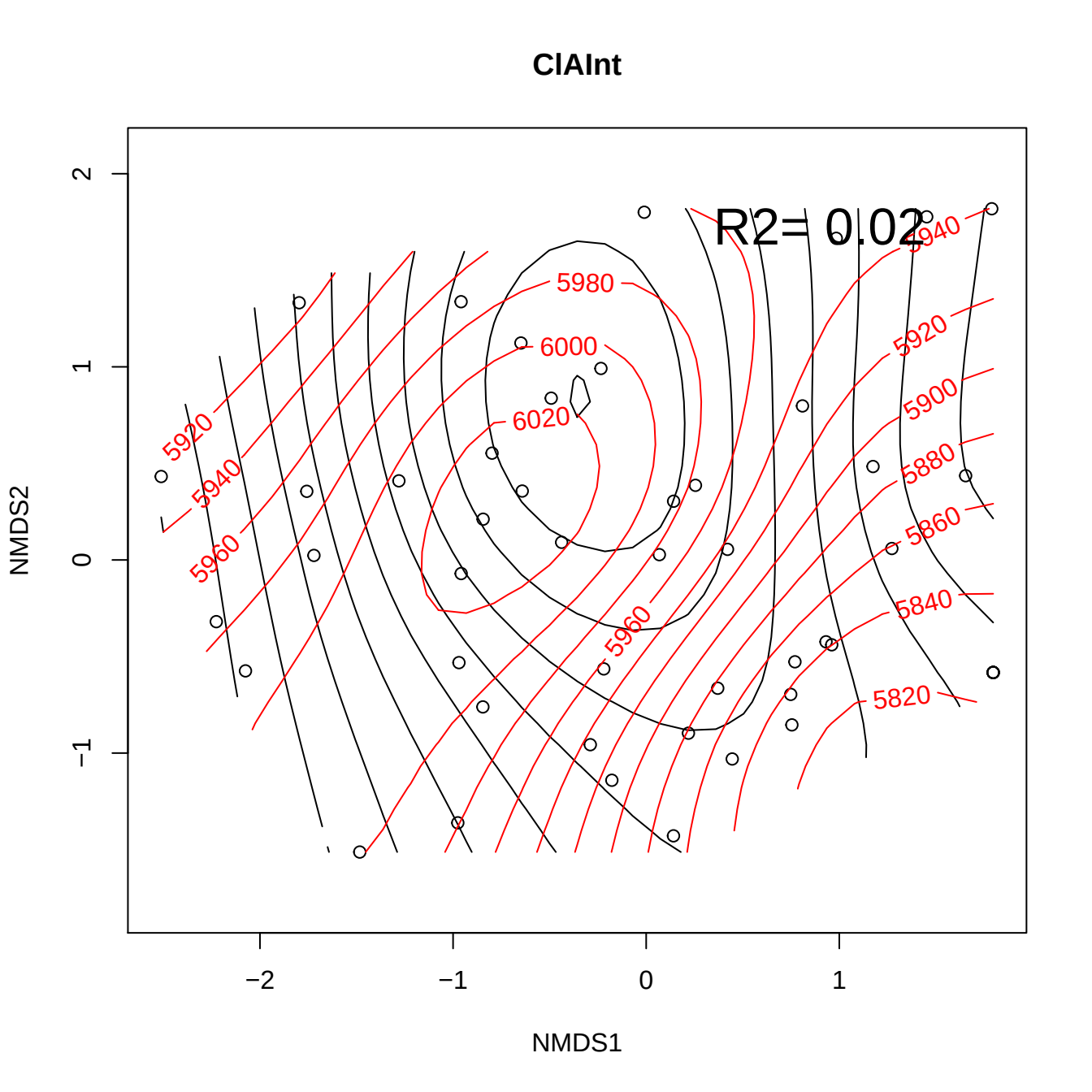

CRI4
R2= 0.03
NMDS1
NMDS2
−2
−1
0
1
2
−1.22
−1.218
−1.216
−1.214
−1.212
−1.21
−1.208
−1.206
−1.204
−1.202

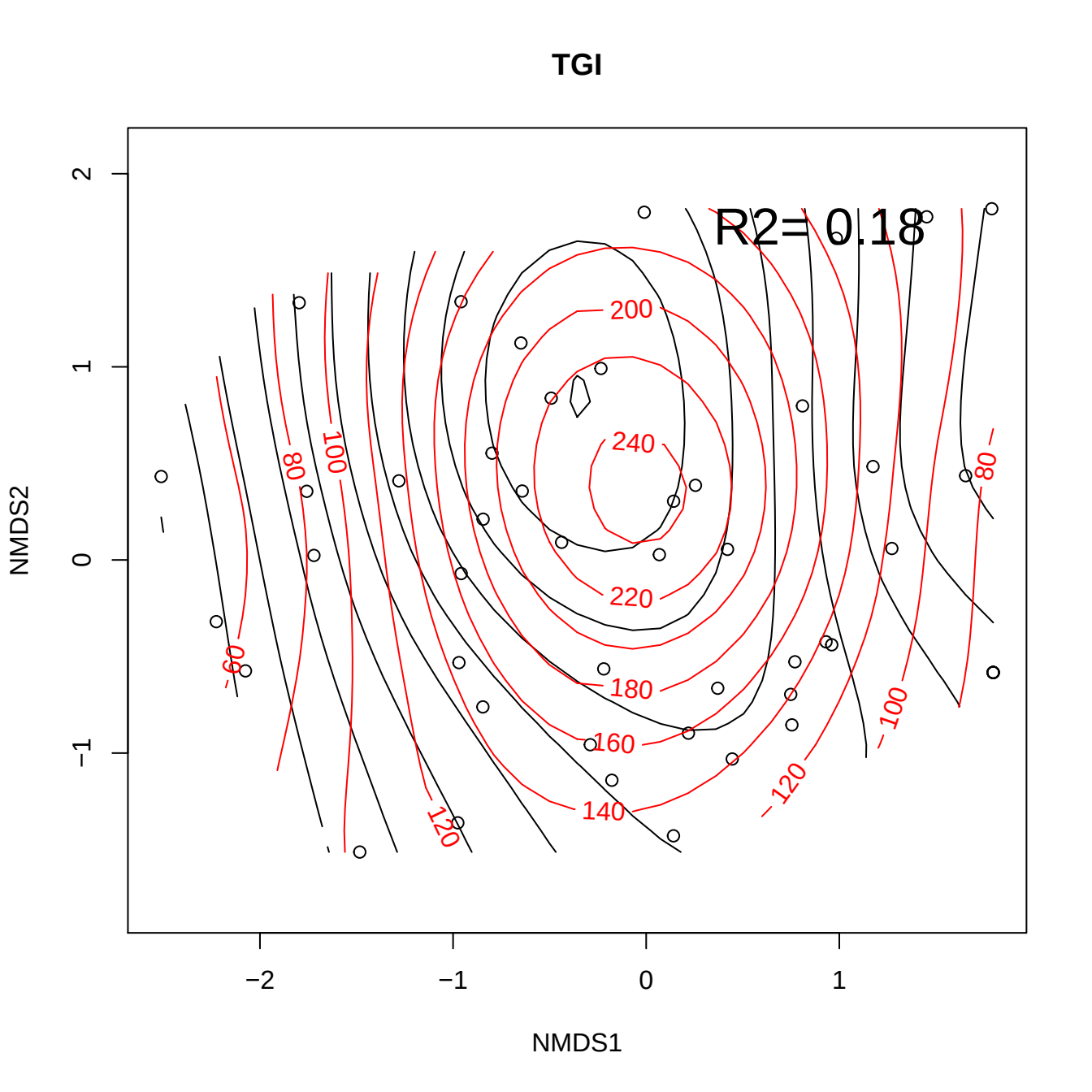

MPRI
R2= 0
NMDS1
NMDS2
−2
−1
0
1
2
17.38115
17.3812
17.38125
17.38135
17.3813

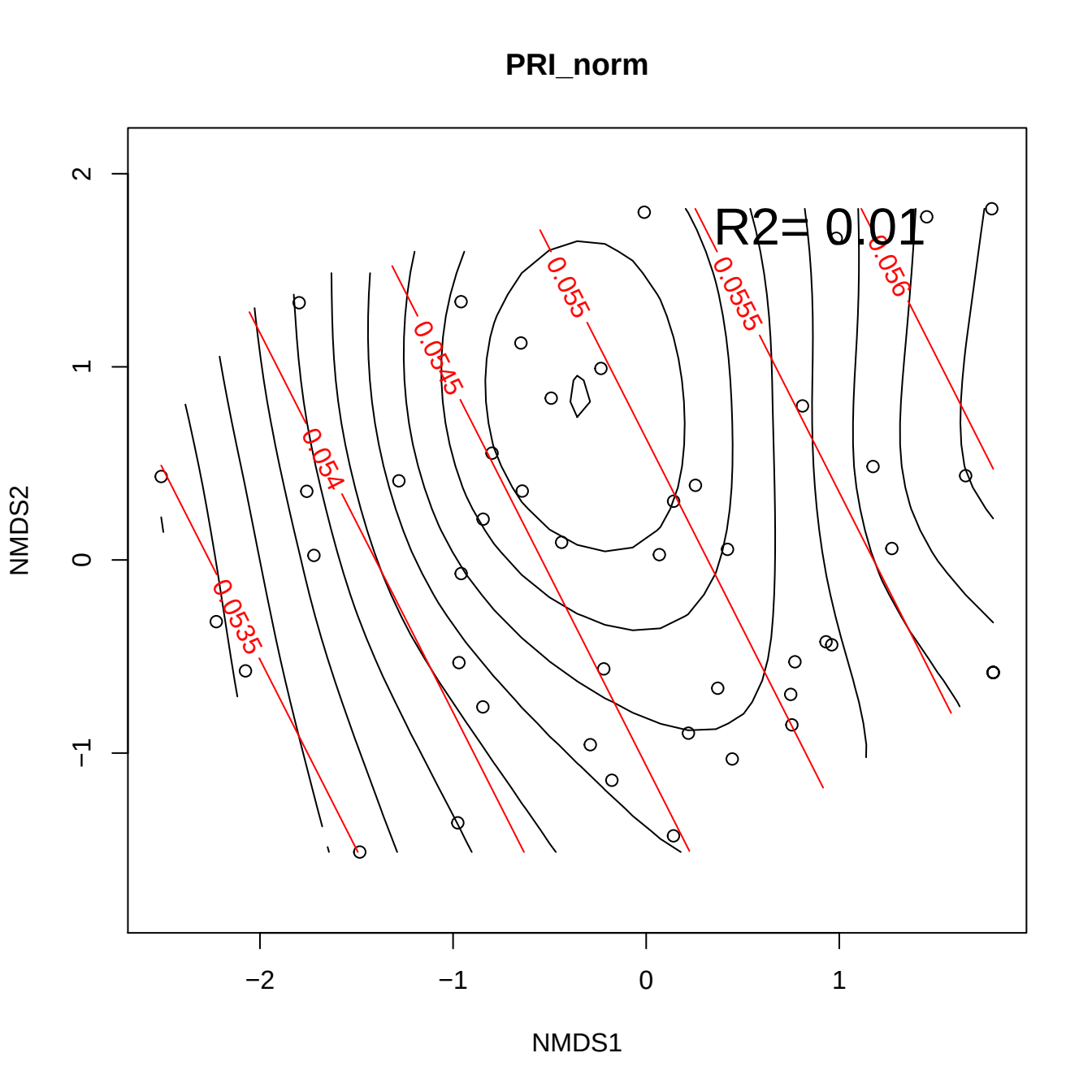

PRI.CI2
R2= 0.12
−0.025
−0.024
−0.023
−0.022
−0.021
−0.02
−0.028
−0.027
−0.026
NMDS1
NMDS2
−2
−1
0
1
2

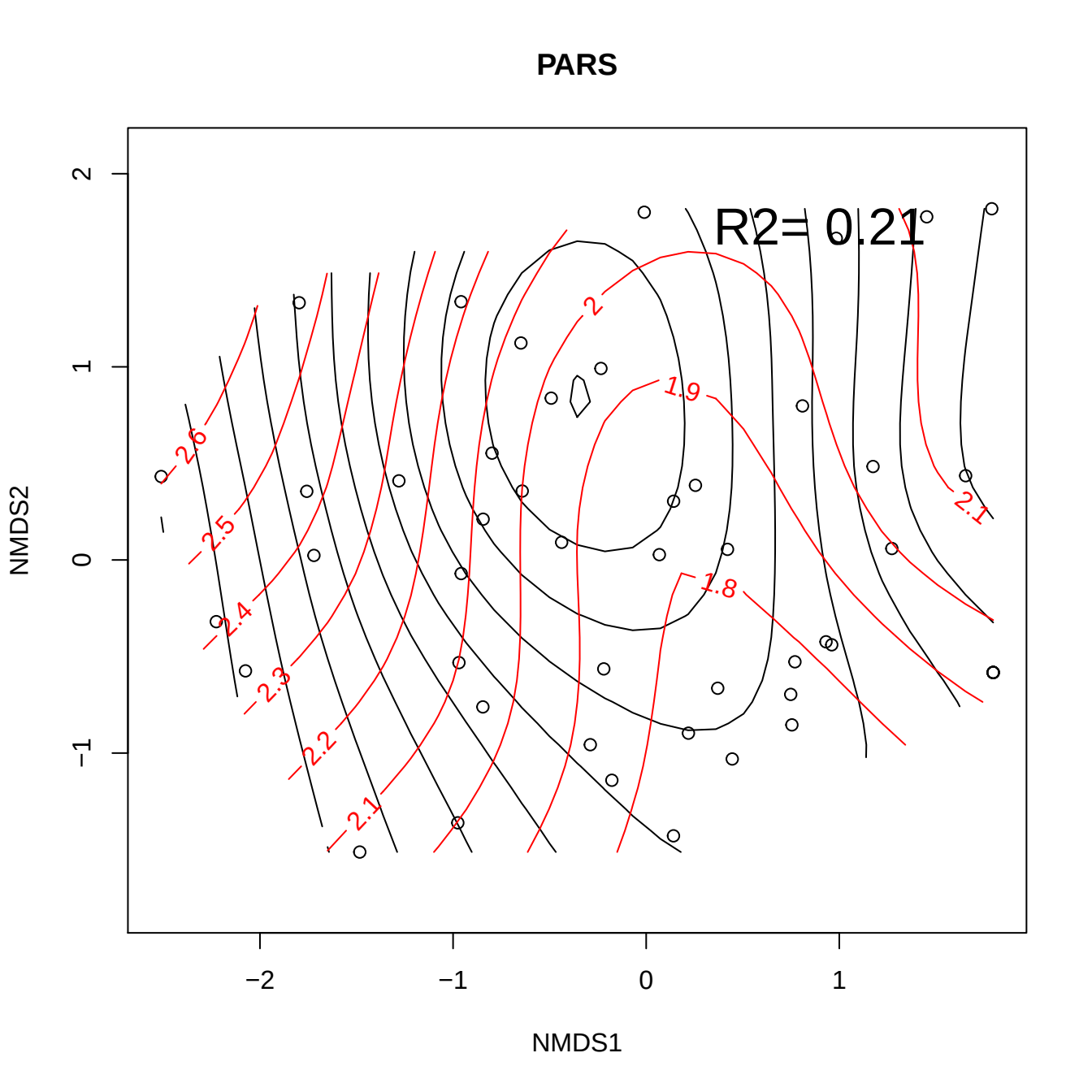

CI2
R2= 0.03
0.278
0.276
0.274
0.272
0.27
0.268
0.266
0.264
0.262
0.26
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

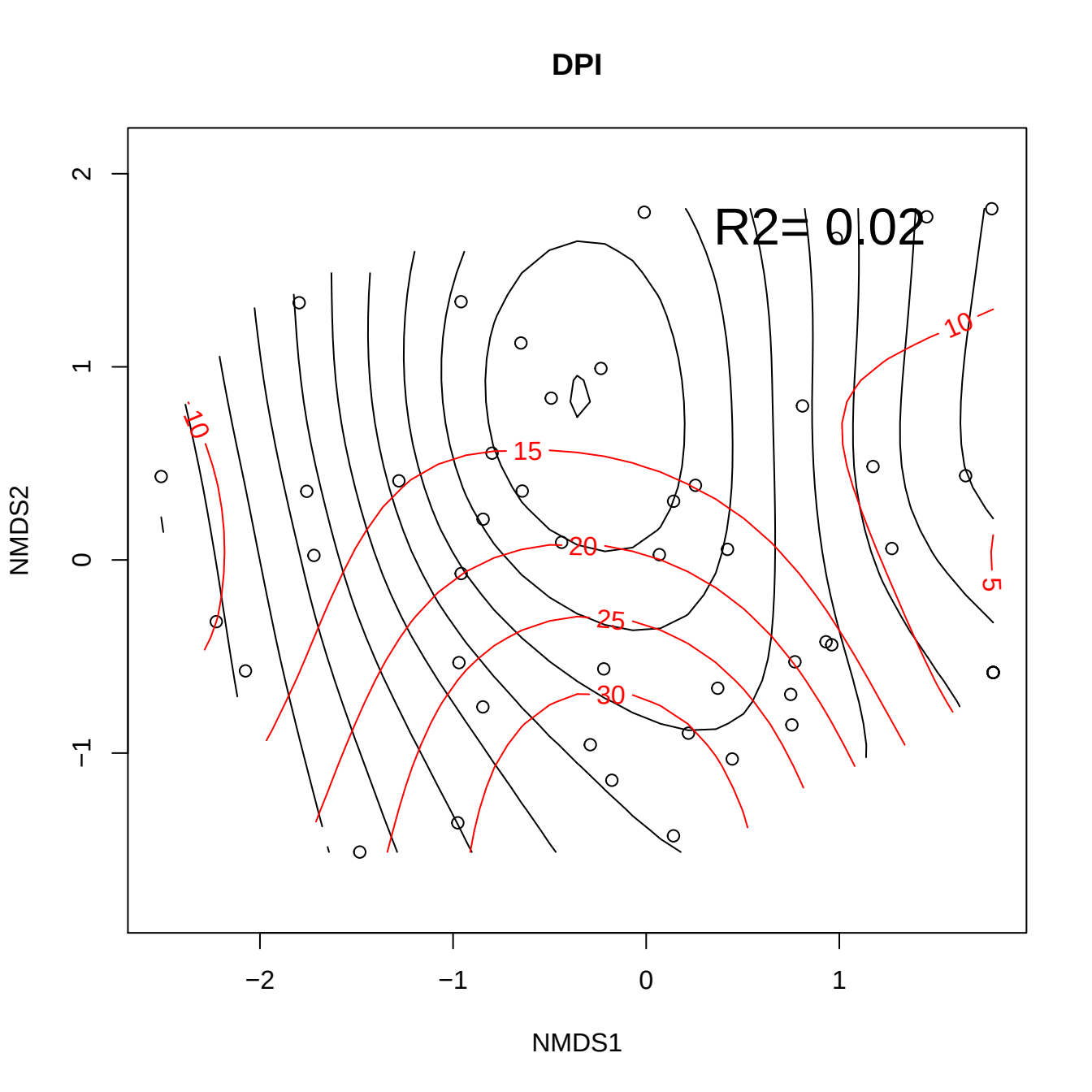

PSRI
R2= 0.29
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
NMDS1
NMDS2
−2
−1
0
1
2

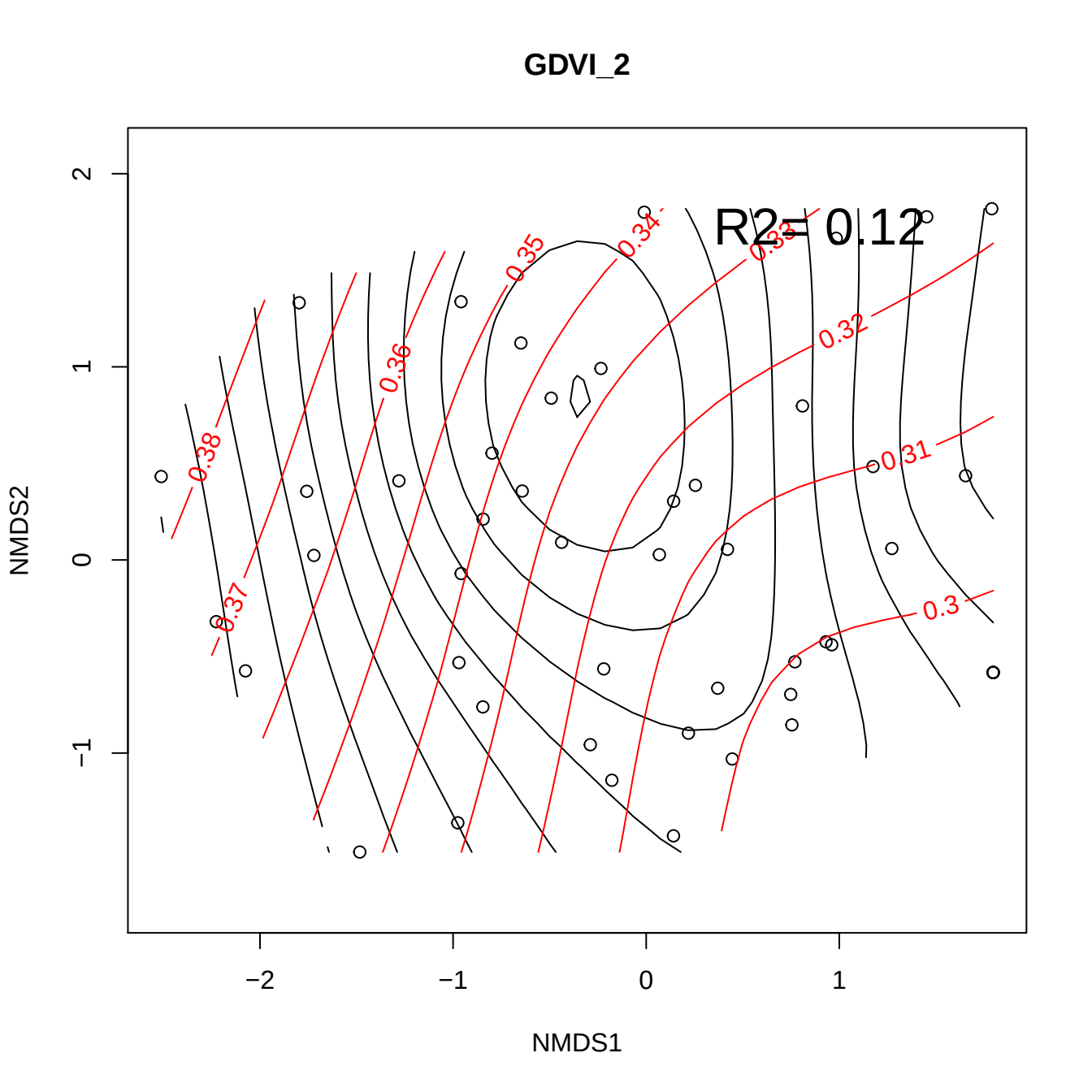

ClAInt
R2= 0.02
5980
6000
6020
5920
5940
5960
5940
5920
5900
5880
5860
5840
5820
5960
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

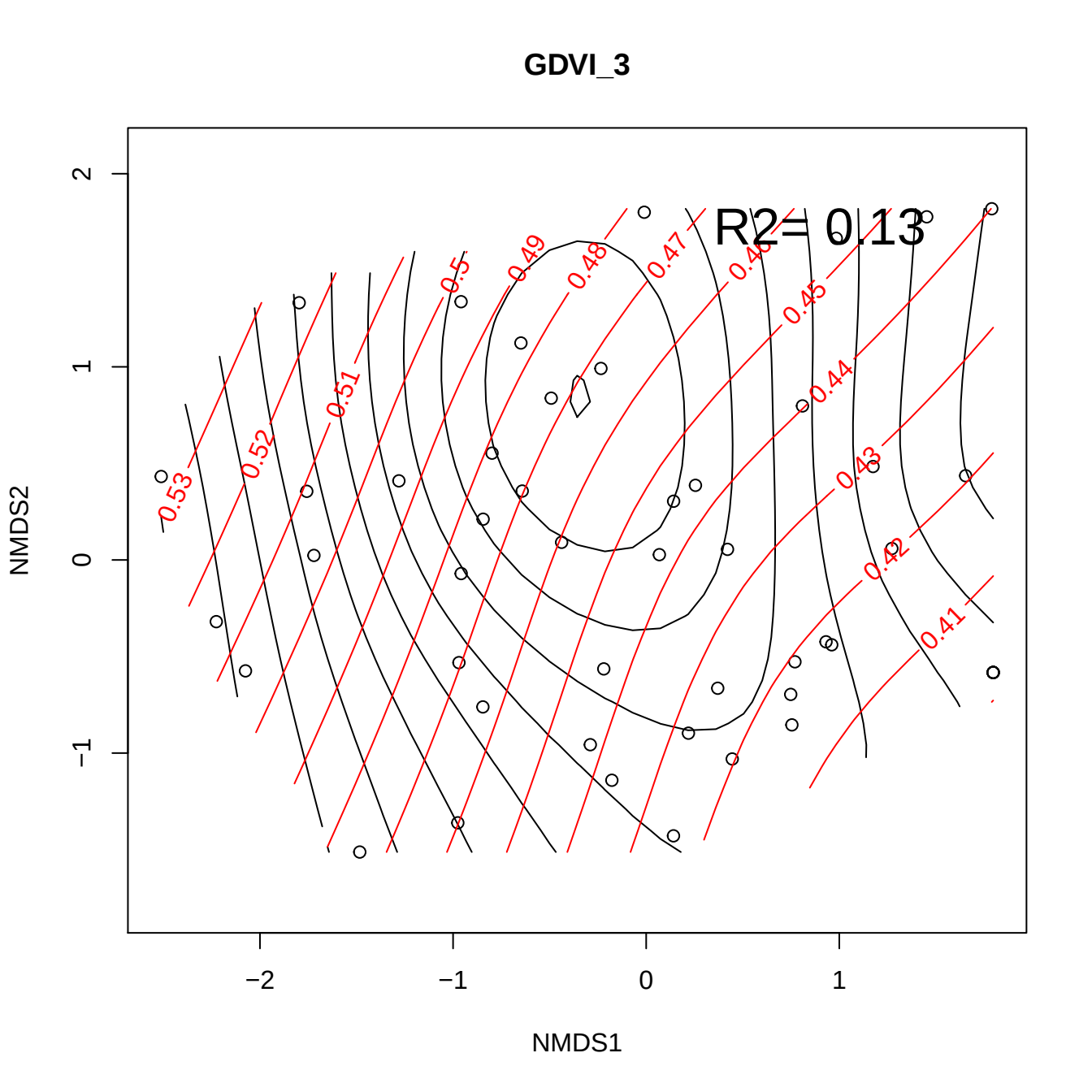

TGI
R2= 0.18
200
240
220
180
160
140
120
100
80
60
NMDS1
NMDS2
−2
−1
0
1
2

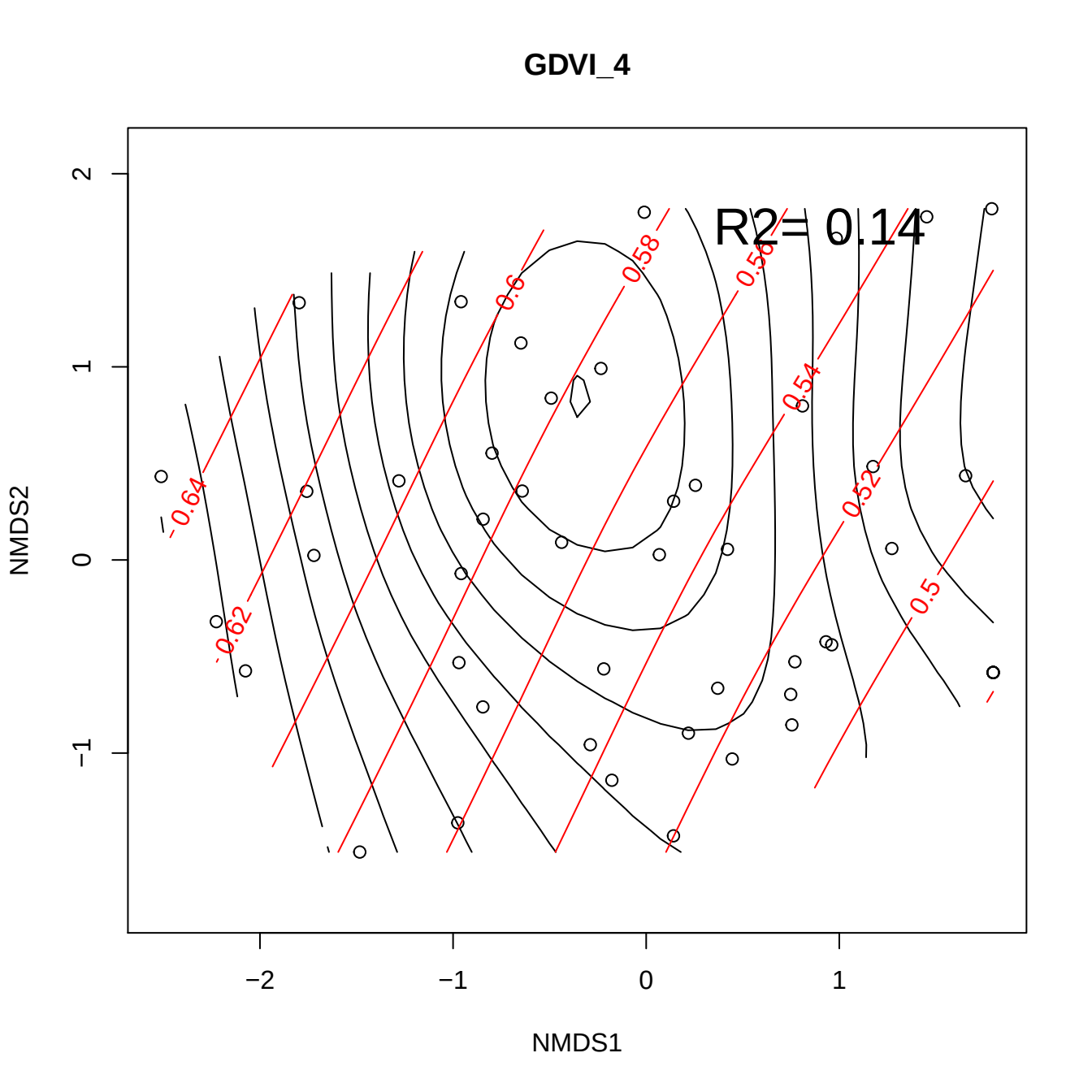

PRI_norm
R2= 0.01
0.0535
0.054
0.0545
0.055
0.0555
0.056
NMDS1
NMDS2
−2
−1
0
1
2

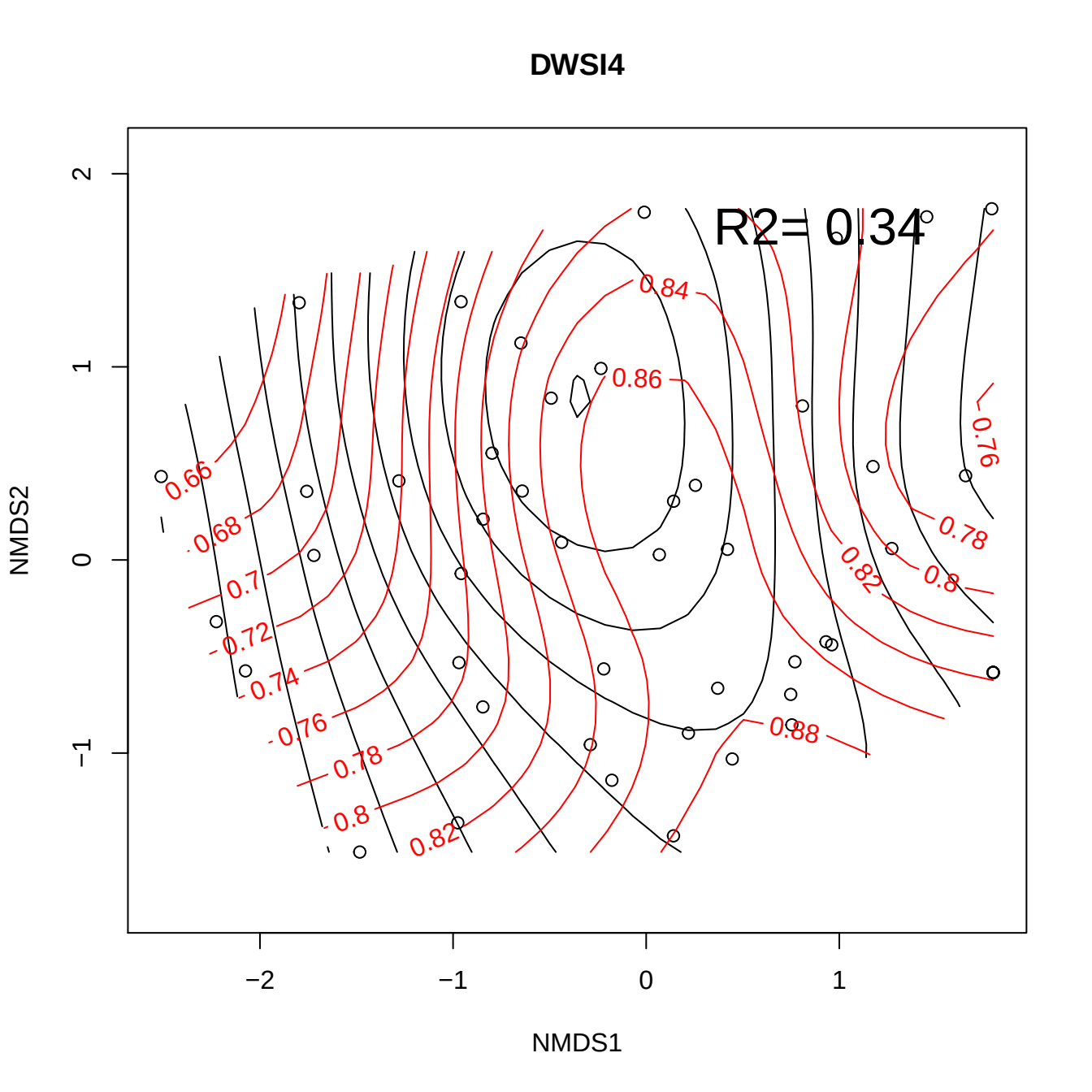

PARS
R2= 0.21
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
2.1
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1

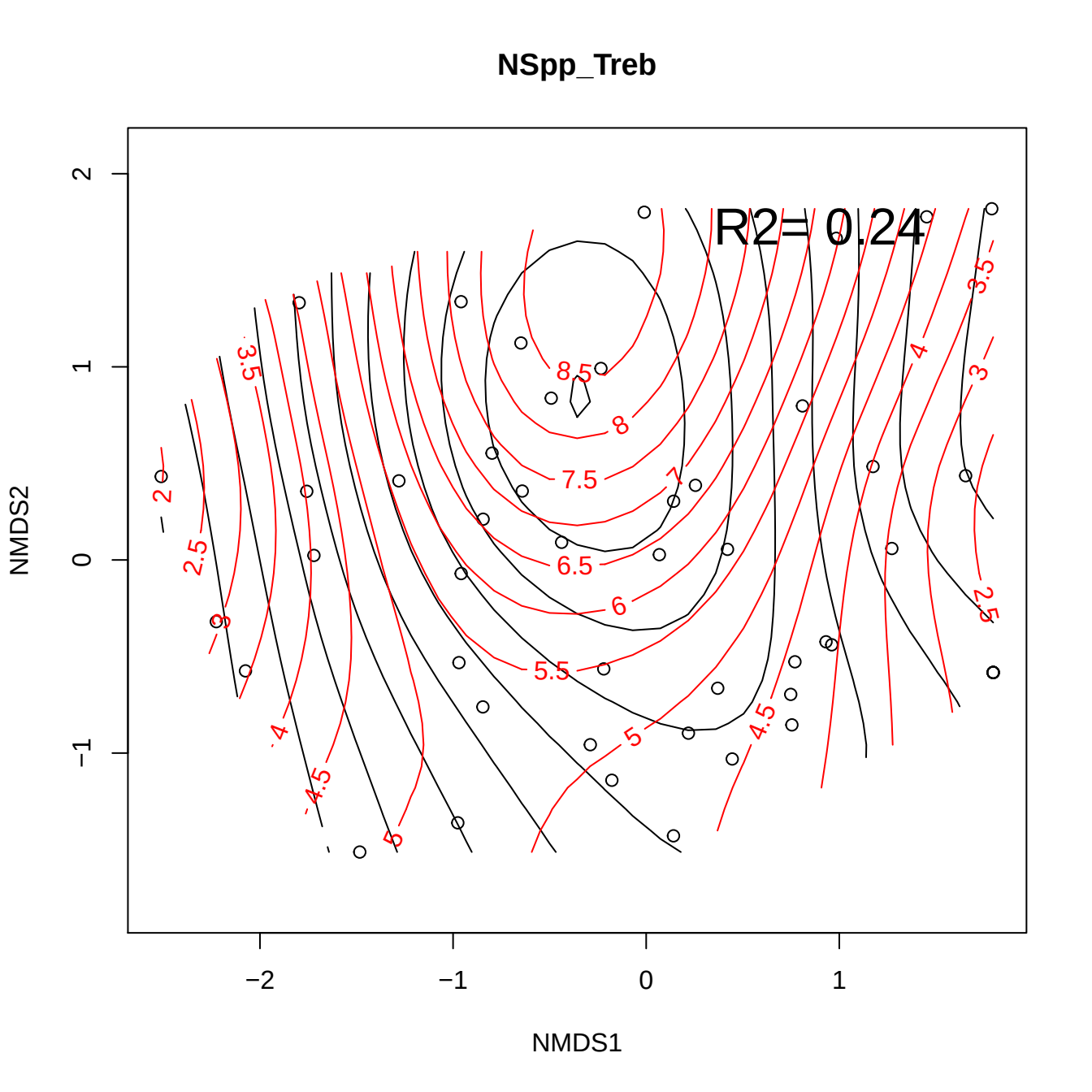

DPI
R2= 0.02
NMDS1
NMDS2
−2
−1
0
1
2
5
10
15
20
25
30

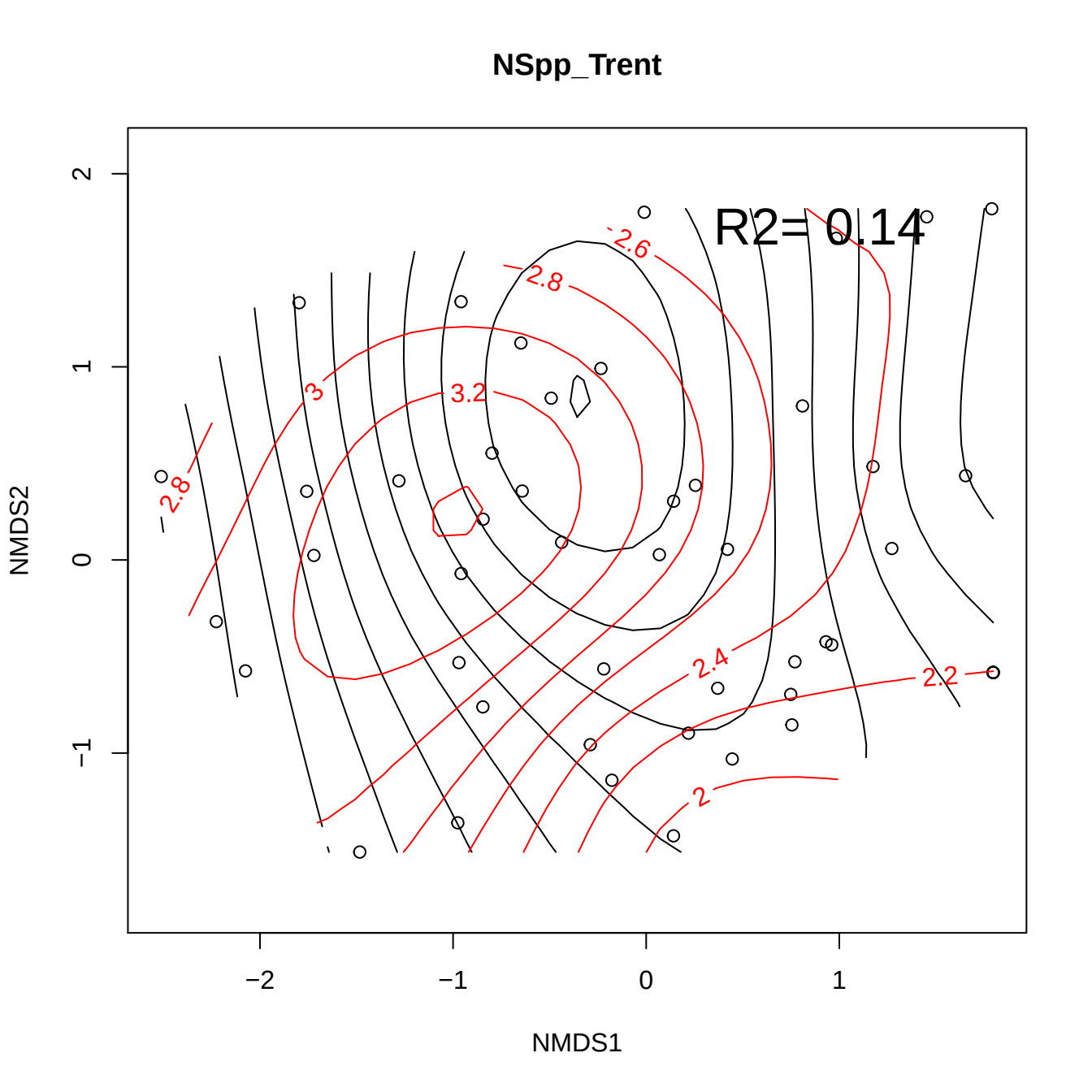

GDVI_2
R2= 0.12
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.3
NMDS1
NMDS2
−2
−1
0
1
2

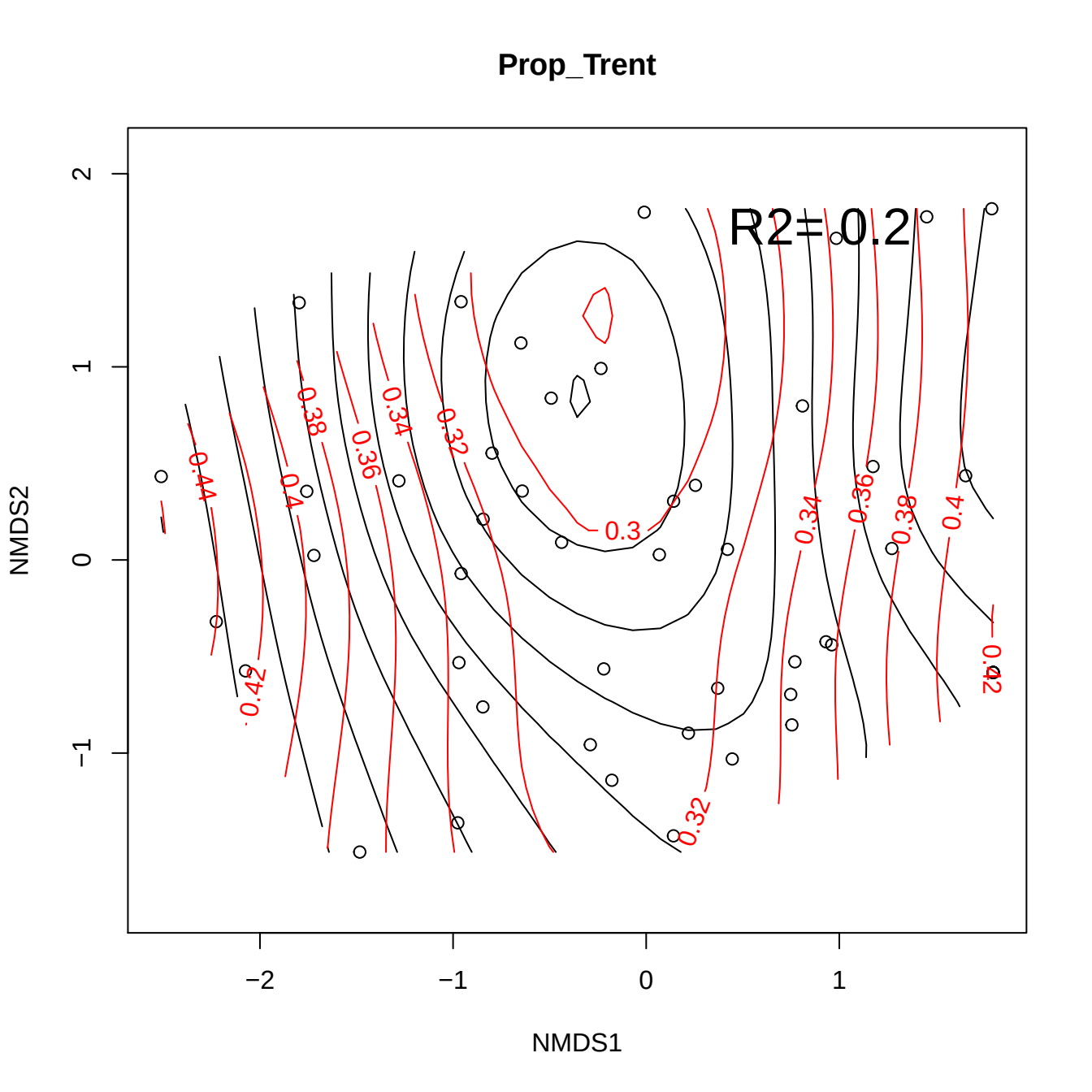

GDVI_3
R2= 0.13
NMDS1
NMDS2
−2
−1
0
1
2
0.53
0.52
0.51
0.5
0.49
0.48
0.47
0.46
0.45
0.44
0.43
0.42
0.41


GDVI_4
R2= 0.14
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
NMDS1
NMDS2
−2
−1
0
1
2


DWSI4
R2= 0.34
0.66
0.68
0.7
0.72
0.74
0.76
0.78
0.8
0.82
0.84
0.86
0.88
0.76
0.78
0.8
0.82
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1


NSpp_Treb
R2= 0.24
NMDS1
NMDS2
−2
−1
0
1
2
8.5
8
7.5
7
6.5
6
5.5
5
4.5
4
3.5
3
2.5
2


NSpp_Trent
R2= 0.14
2.8
2.6
3
3.2
2.8
2.4
2.2
2
NMDS1
NMDS2
−2
−1
0
1
2
−1
0
1


Prop_Trent
R2= 0.2
NMDS1
NMDS2
−2
−1
0
1
2
0.3
0.32
0.34
0.36
0.38
0.4
0.42
0.44

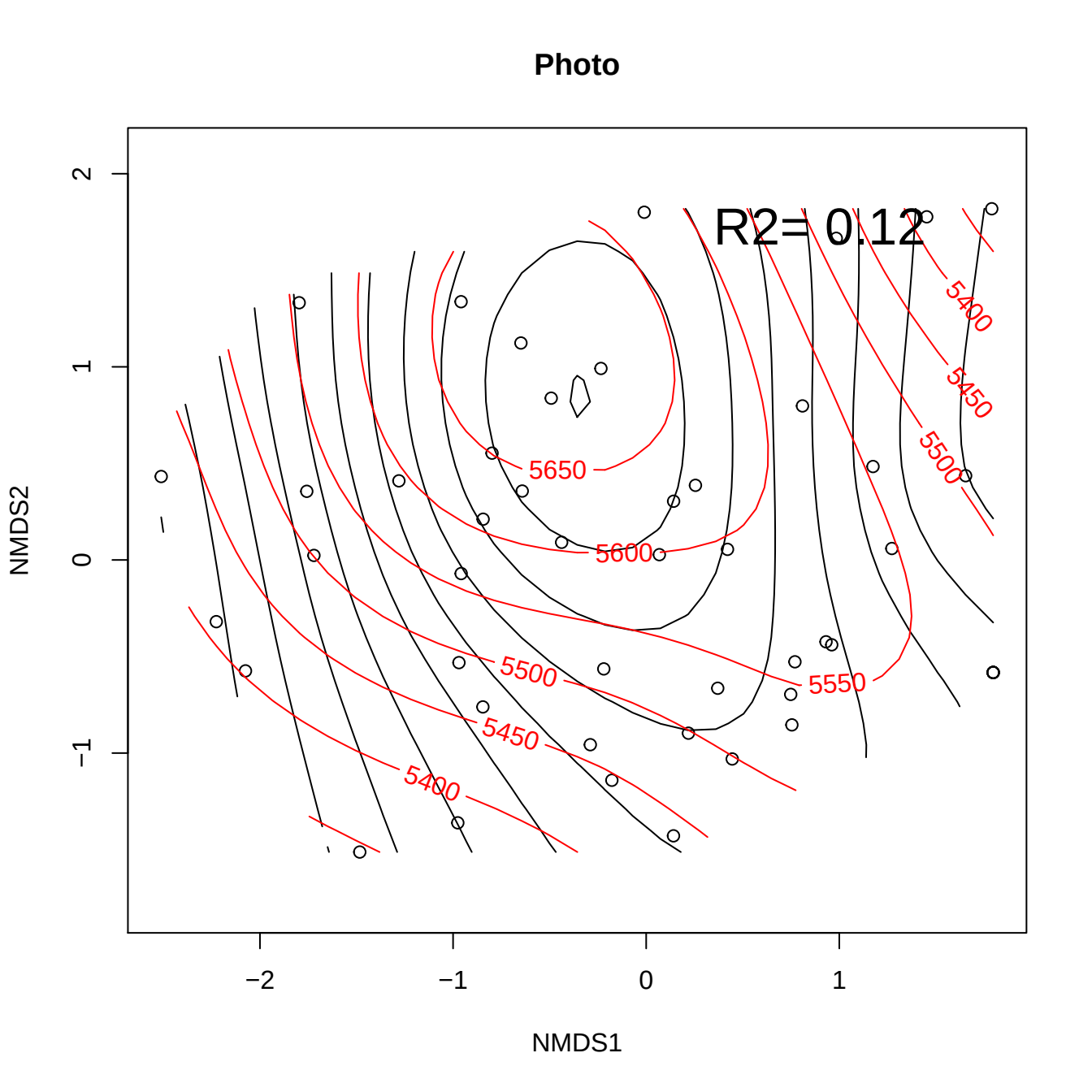
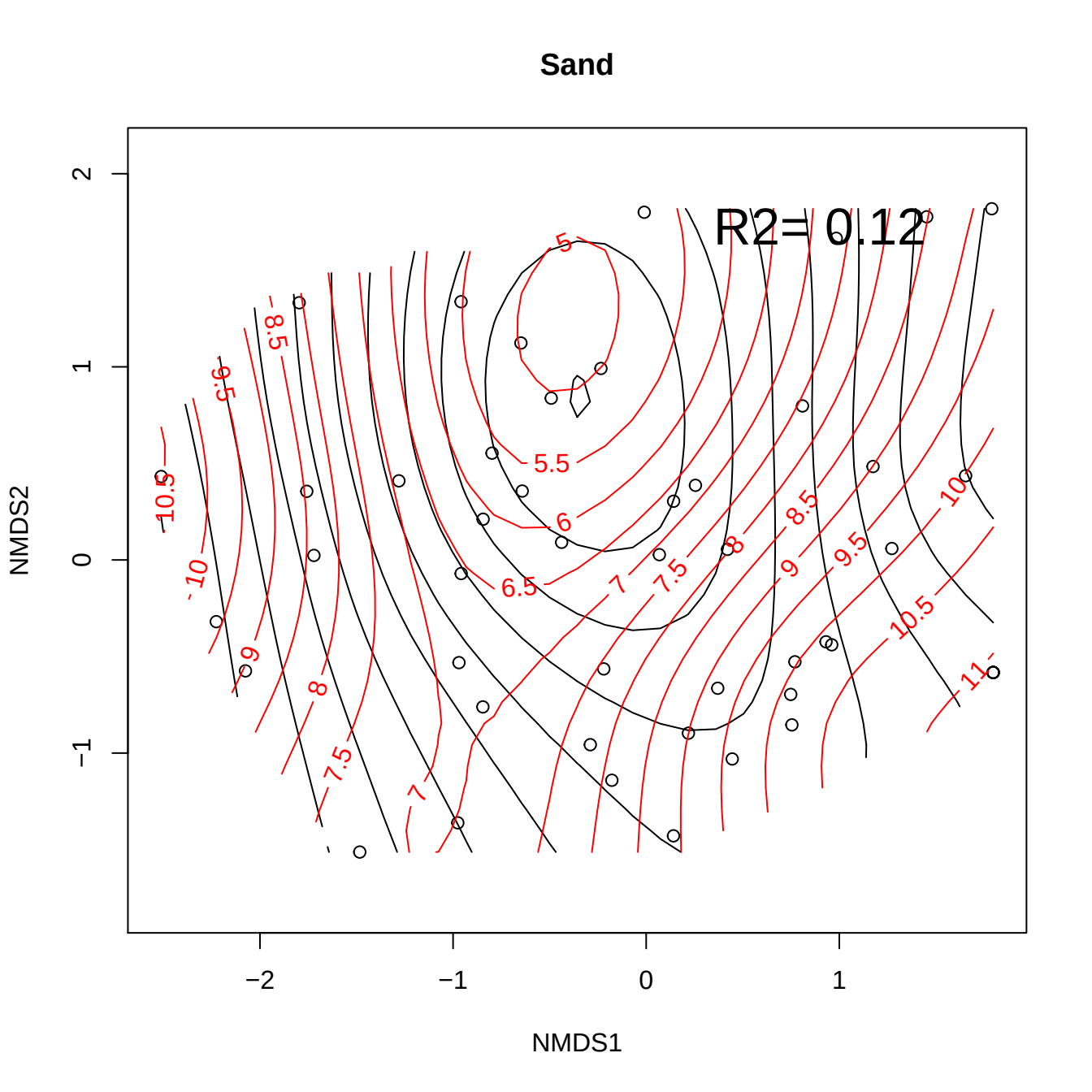
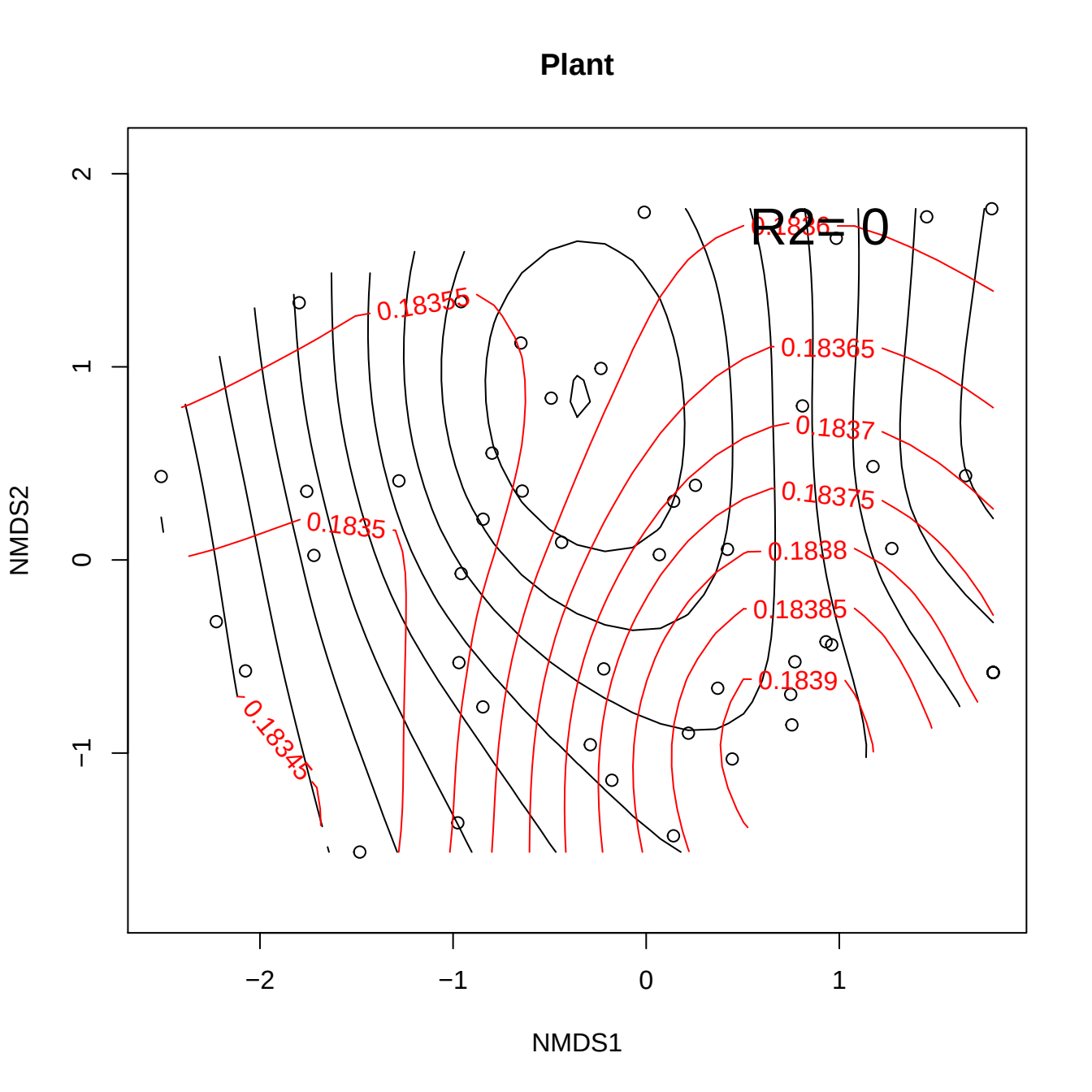
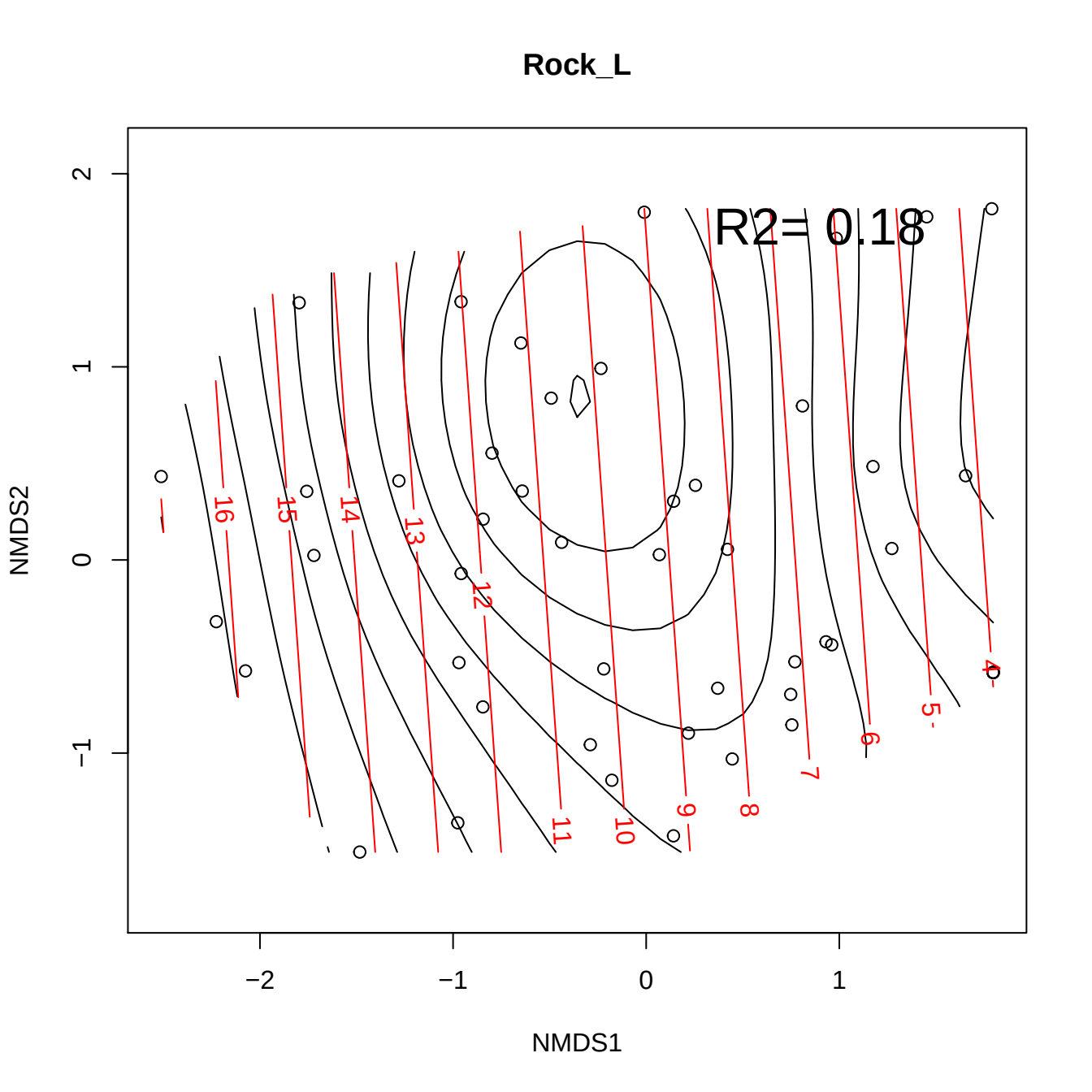
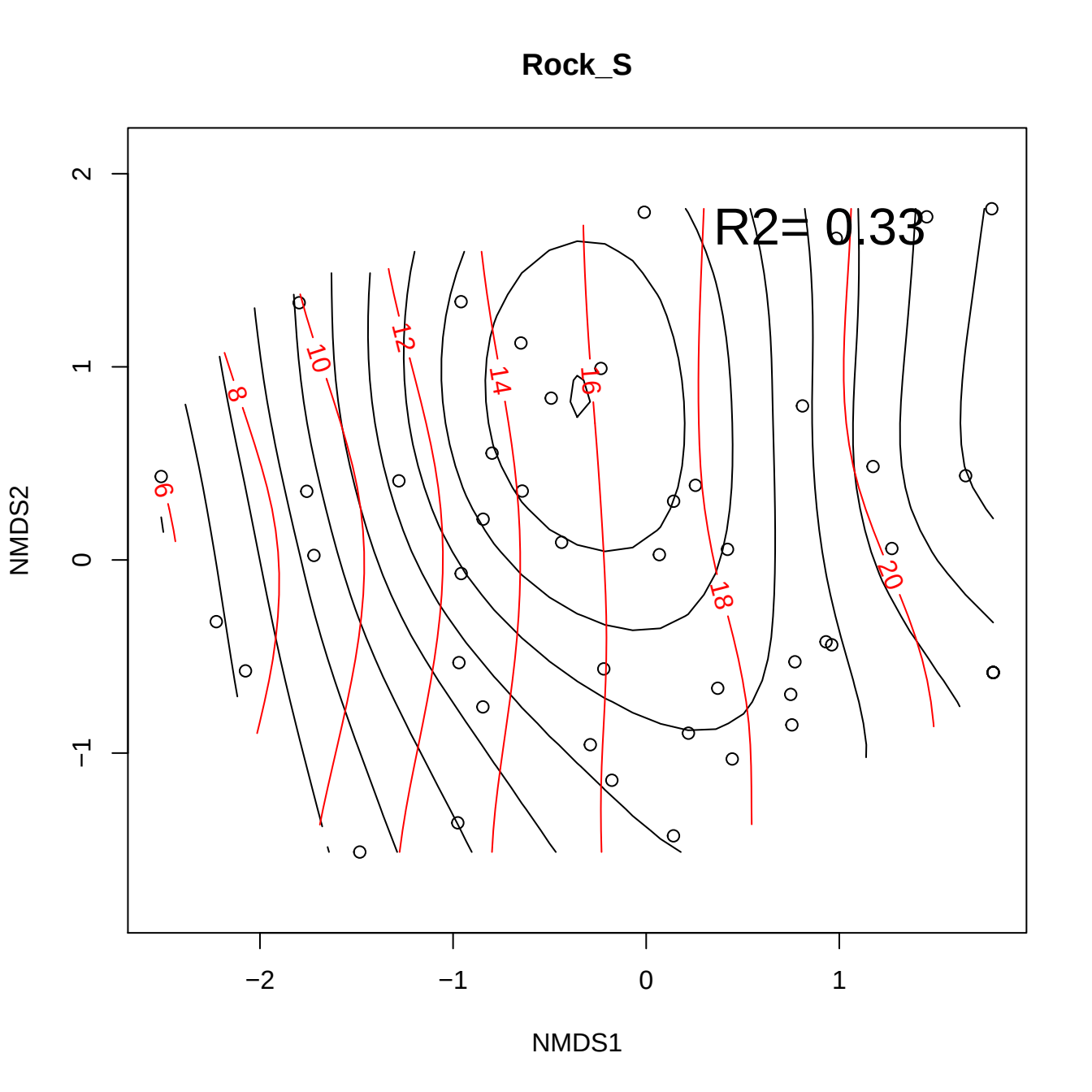


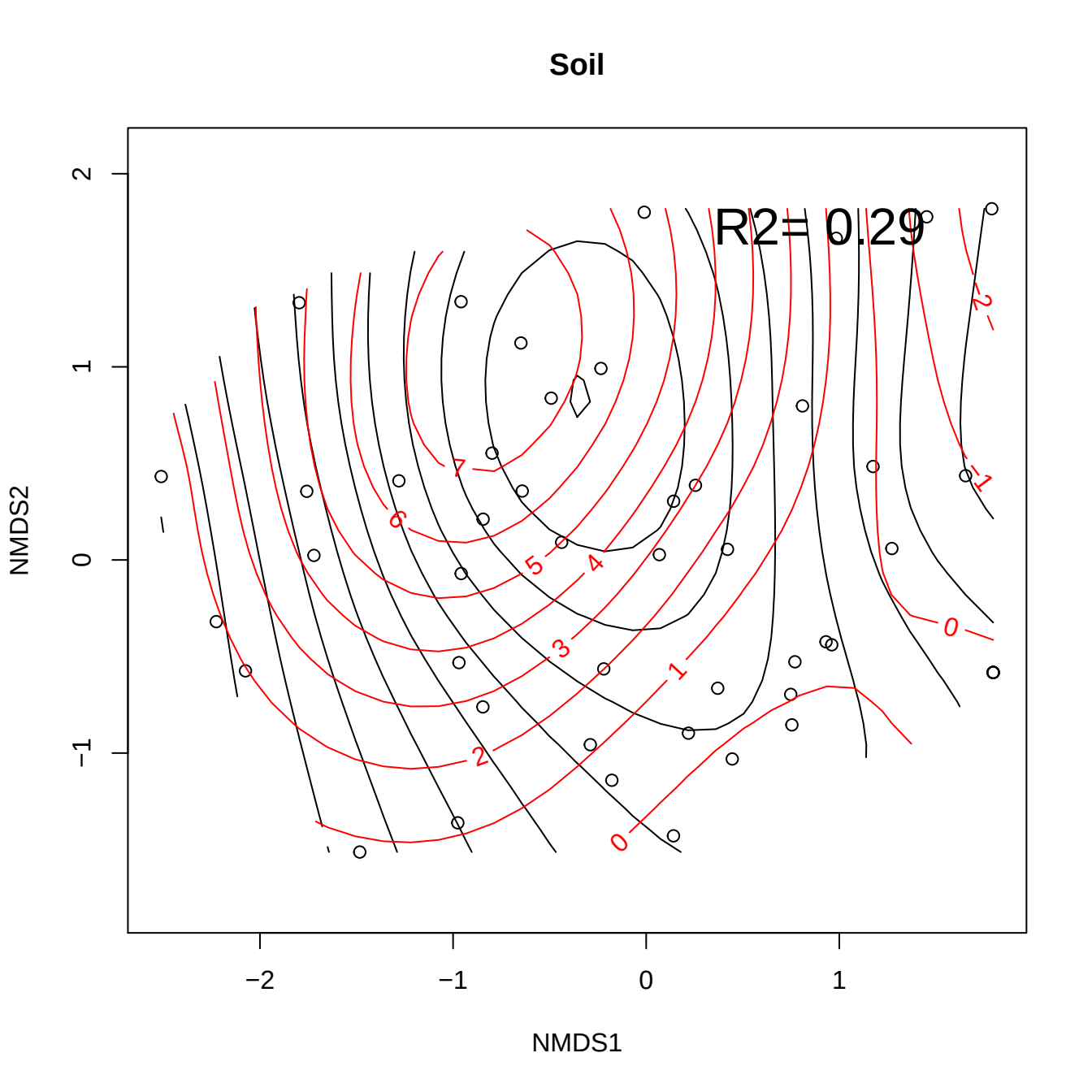
Photo
R2= 0.12
5650
5600
5550
5500
5450
5400
NMDS1
NMDS2
−2
−1
0
1
2


Sand
R2= 0.12
NMDS1
NMDS2
−2
−1
0
1
2
5
5.5
6
6.5
7
7.5
8
8.5
9
9.5
10
10.5
11


Plant
R2= 0
0.18355
0.18365
0.1837
0.18375
0.1838
0.18385
0.1839
0.1835
0.18345
NMDS1
NMDS2
−2
−1
0
1
2


Rock_L
R2= 0.18
NMDS1
NMDS2
−2
−1
0
1
2
16
15
14
13
12
11
10
9
8
7
6
5
4


Rock_S
R2= 0.33
NMDS1
NMDS2
−2
−1
0
1
2
6
8
10
12
14
16
18
20


Soil
R2= 0.29
NMDS1
NMDS2
−2
−1
0
1
2
7
6
5
4
3
2
1
0
−1
−2