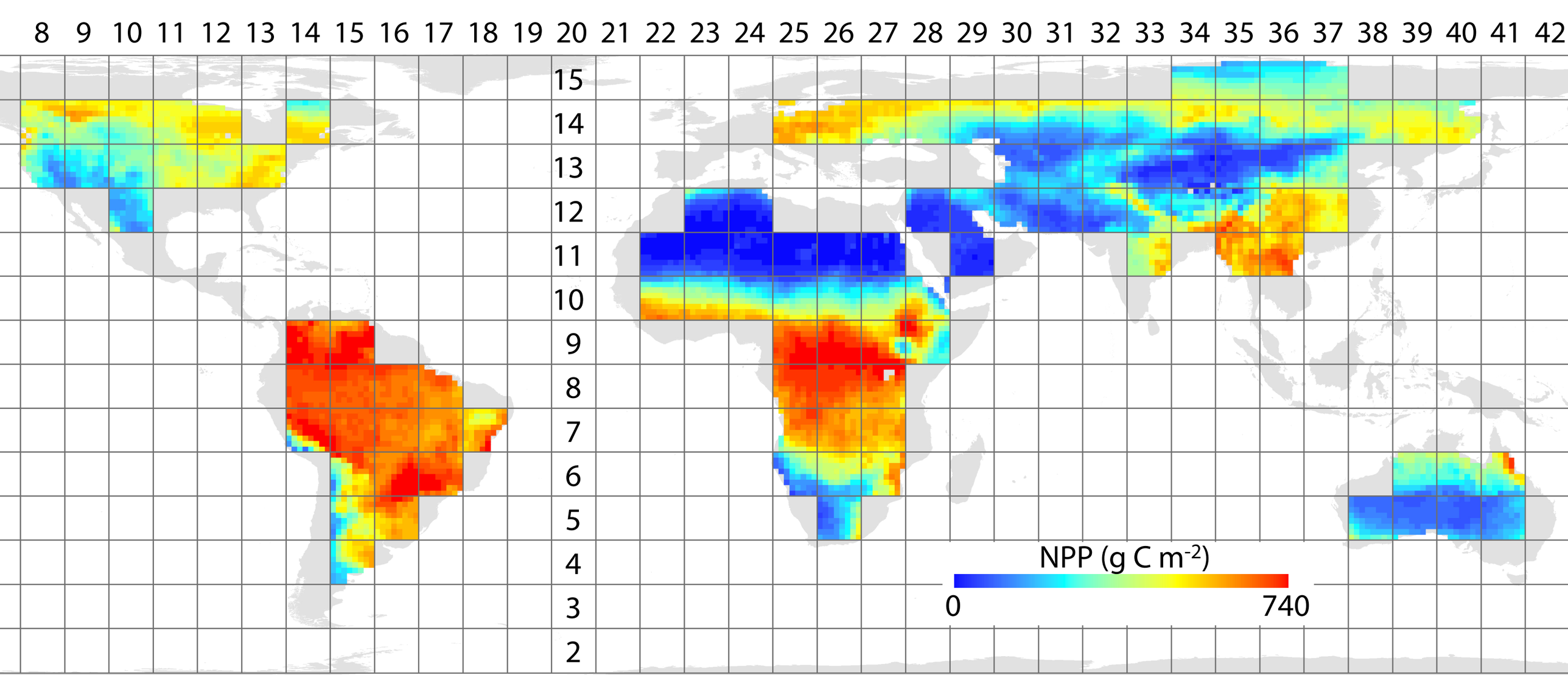
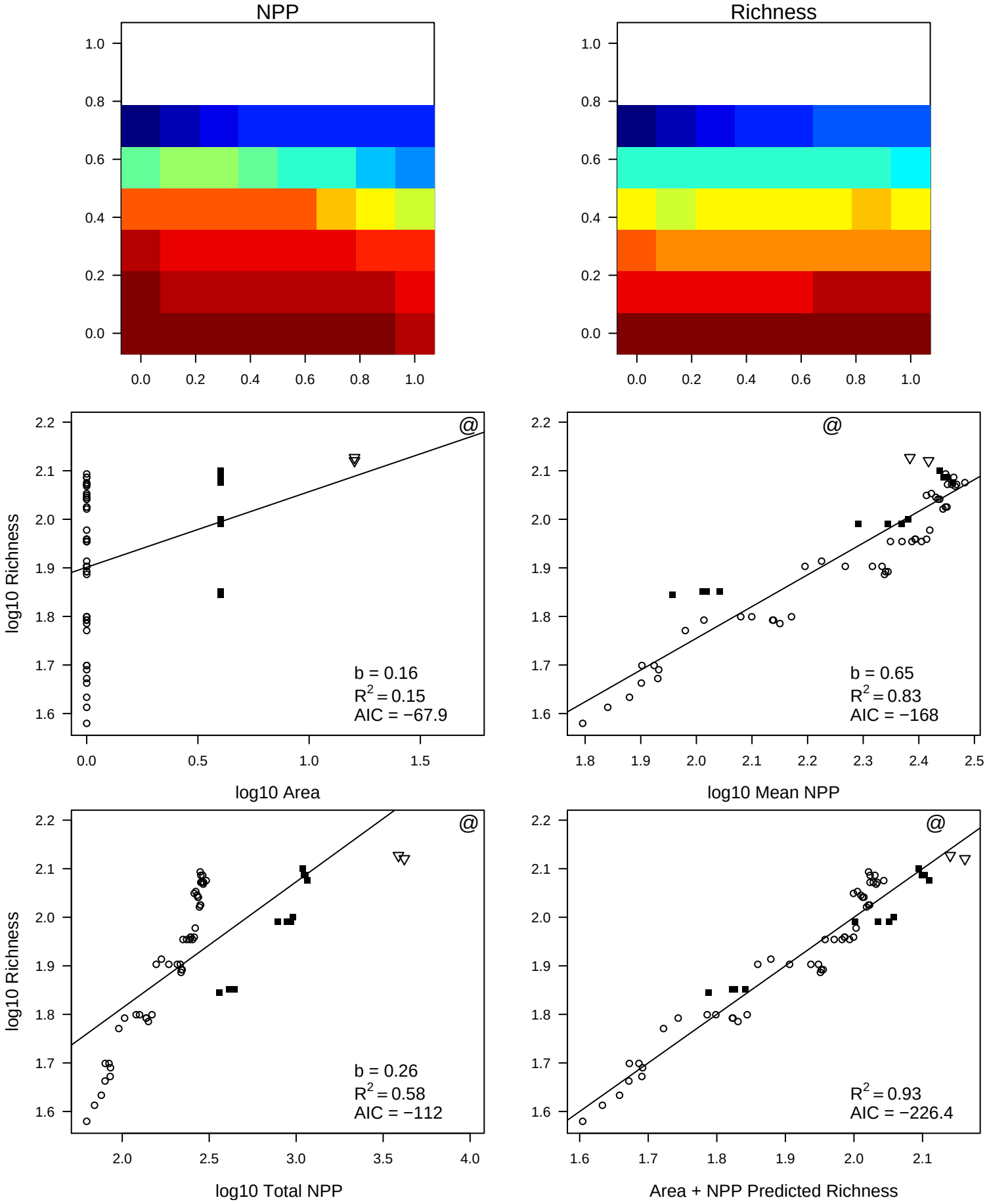
Online Appendix B. Regional richness and NPP maps and relationships

Figure B1. Map of the 107 regions of the world utilized in our analyses, depicting spatial variation in annual net primary productivity (g C m^{-2}) within them at ~1° resolution. Regions are assigned a unique identifier in the form *xx*0*yy*, where *x* and *y* refer to the horizontal and vertical coordinates of the region using a coordinate system anchored in the lower left. For example, the region ID for the northwesternmost region examined in this study is 8014 since the region occurs in the 8th column and 14th row.

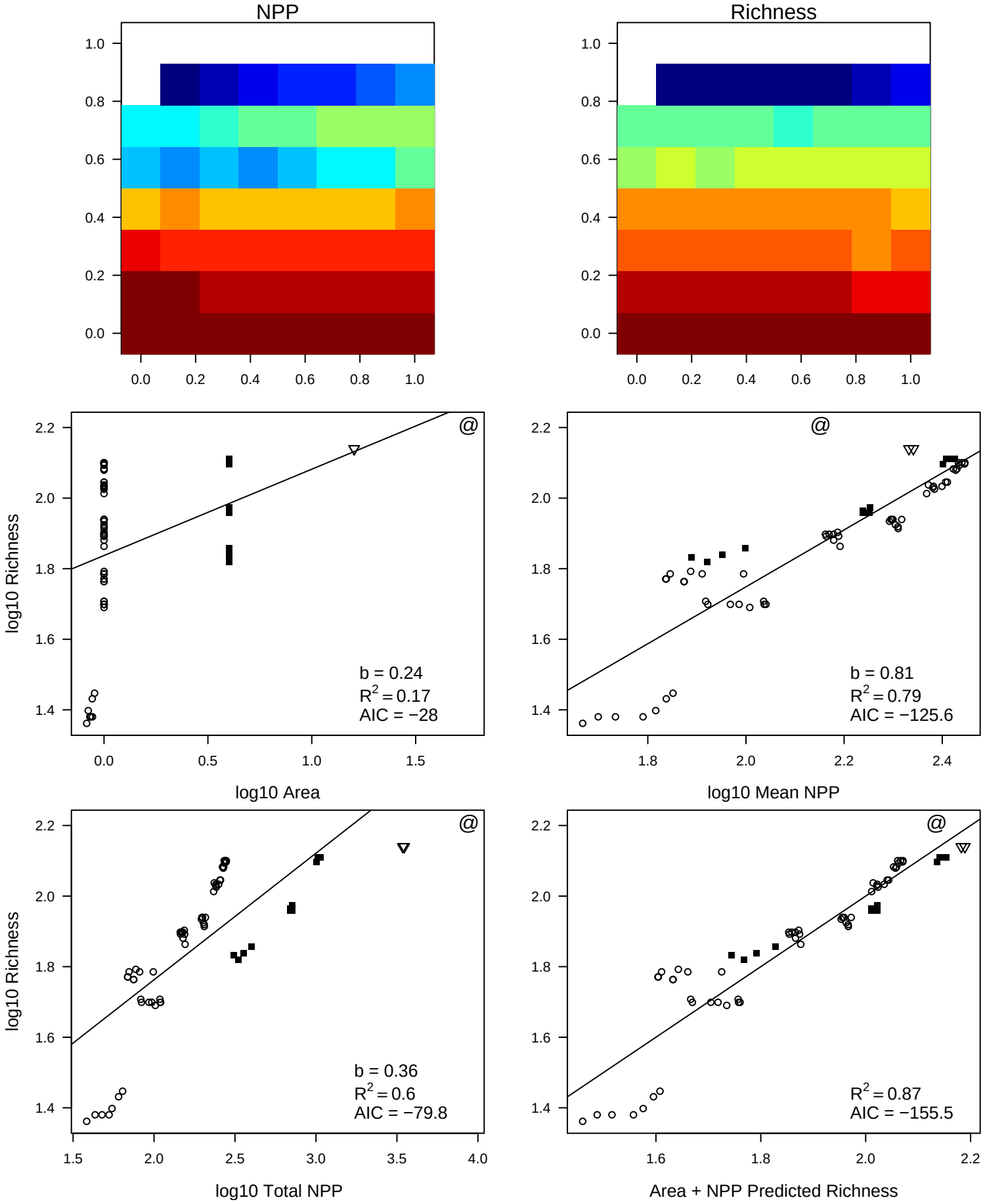
Figures B2-107. Each region is identified by its region ID, and spatial variation in NPP and species richness is portrayed as in Figure 3. Values increase from blue to red and are scaled differently on each map. In addition to the maps, the following 4 plots are provided: species richness versus area, species richness versus mean NPP, species richness versus total NPP, and observed richness versus richness predicted by a model including both area and mean NPP. In each plot, the four spatial resolutions ranging from ~1° to ~8° are represented by circles, squares, triangles, and the @ symbol, respectively.


8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42
15
14
13
12
11
10
9
8
7
6
5
4
3
2
NPP (g C m-2)
0
740

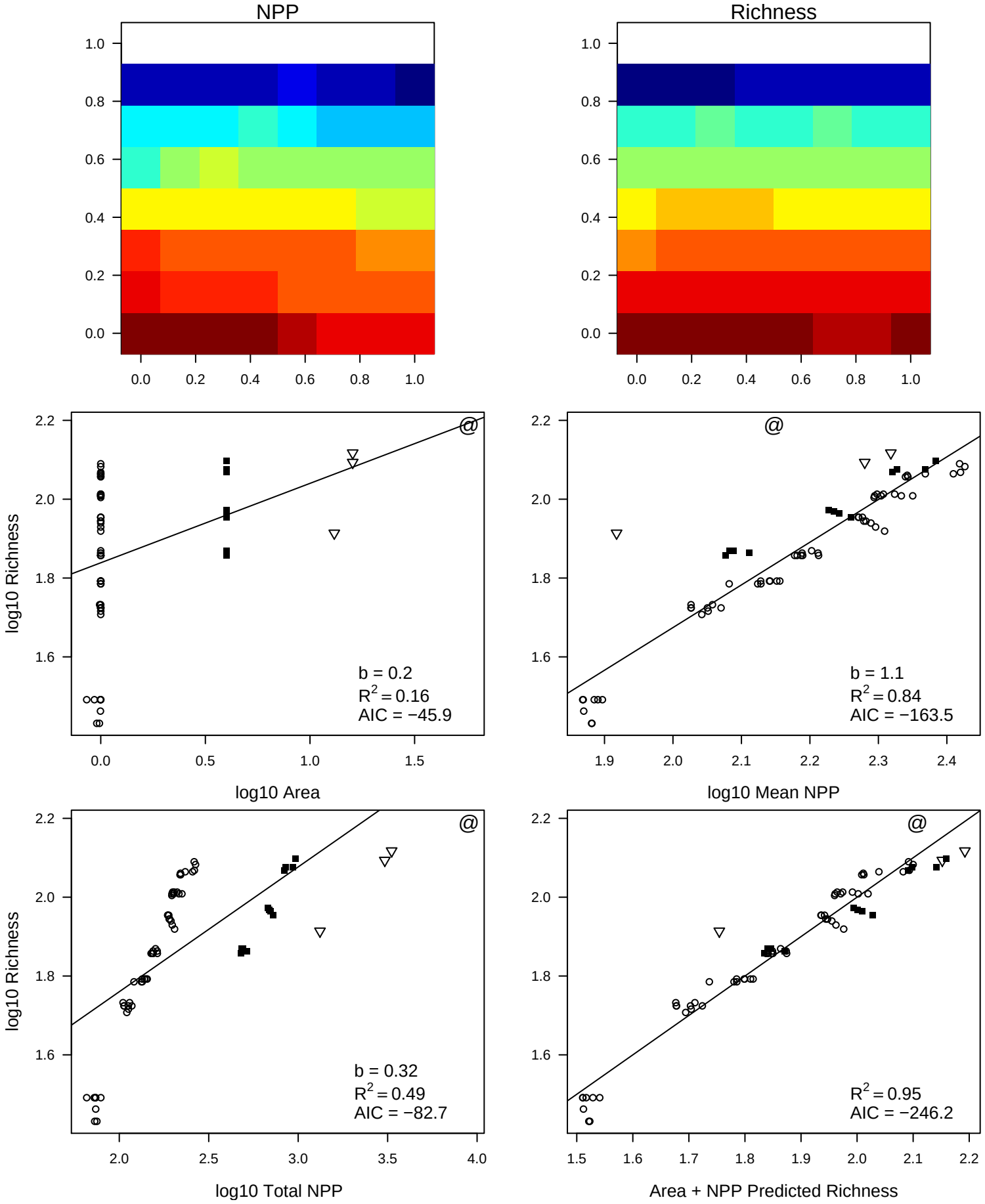
ID 34015


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.15
AIC = −67.9
log10 Mean NPP
b = 0.65
R2 = 0.83
AIC = −168
log10 Total NPP
b = 0.26
R2 = 0.58
AIC = −112
Area + NPP Predicted Richness
R2 = 0.93
AIC = −226.4

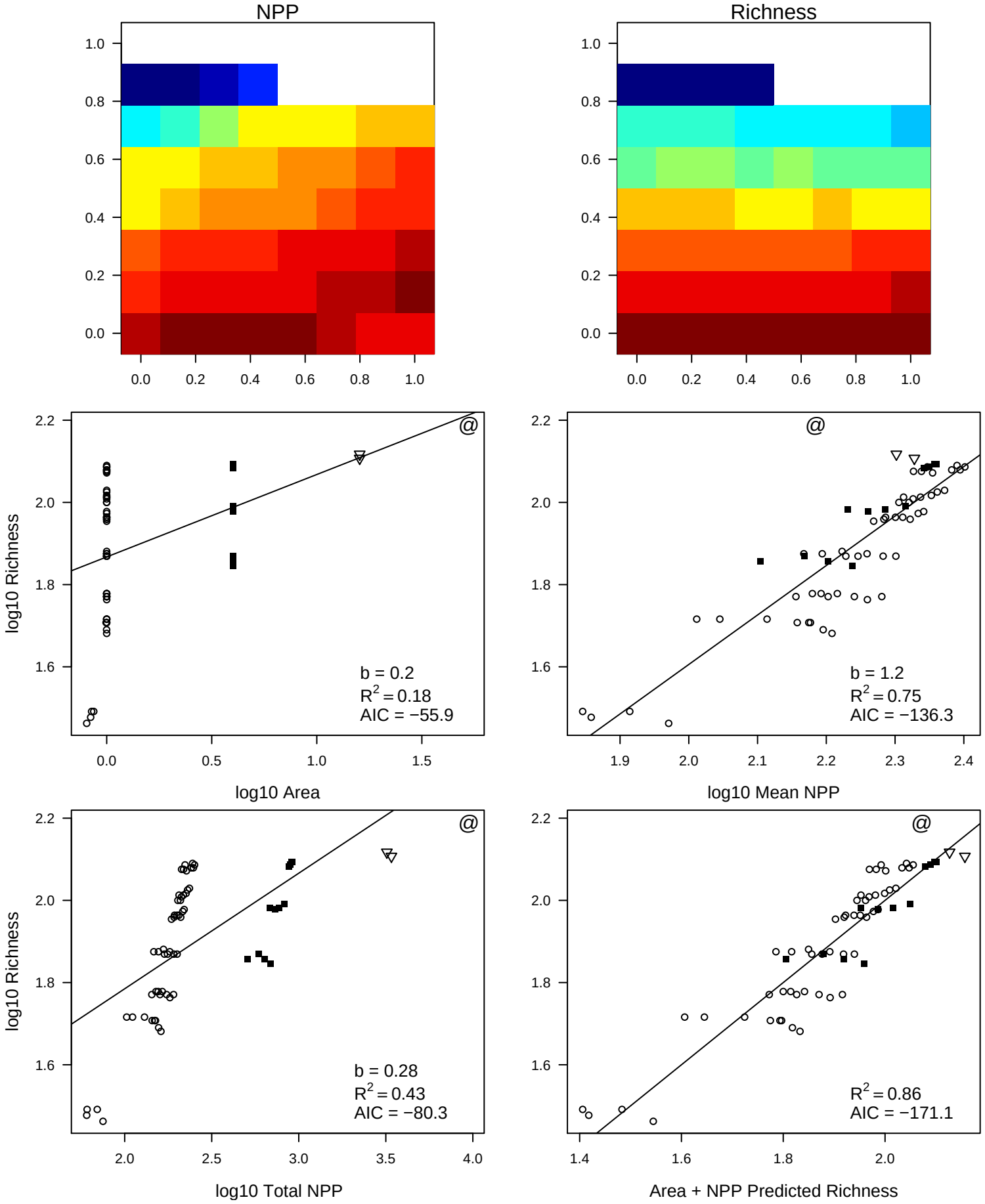
ID 35015


NPP
Richness
log10 Richness
log10 Area
b = 0.24
R2 = 0.17
AIC = −28
log10 Mean NPP
b = 0.81
R2 = 0.79
AIC = −125.6
log10 Total NPP
b = 0.36
R2 = 0.6
AIC = −79.8
Area + NPP Predicted Richness
R2 = 0.87
AIC = −155.5

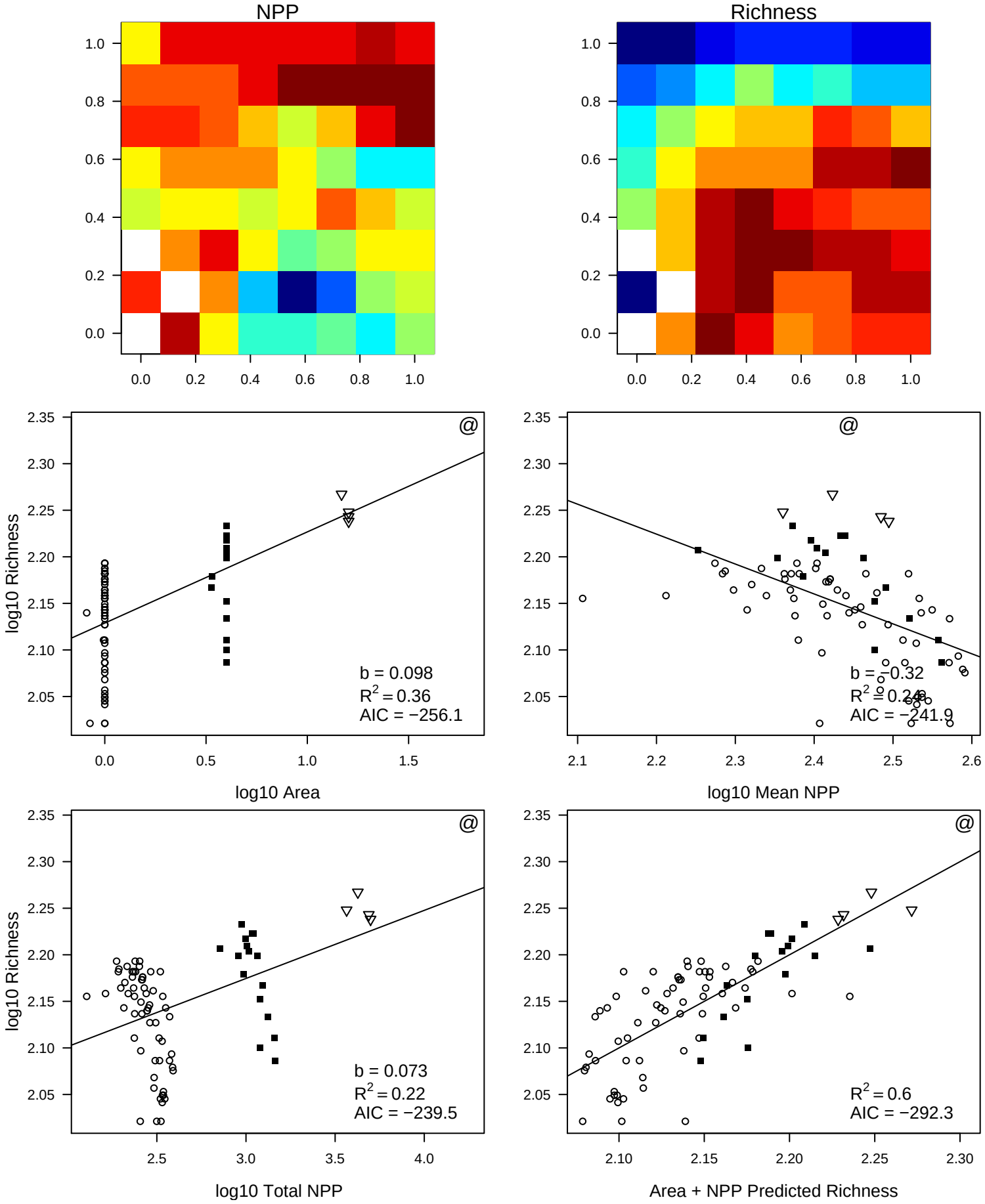
ID 36015


NPP
Richness
log10 Richness
log10 Area
b = 0.2
R2 = 0.16
AIC = −45.9
log10 Mean NPP
b = 1.1
R2 = 0.84
AIC = −163.5
log10 Total NPP
b = 0.32
R2 = 0.49
AIC = −82.7
Area + NPP Predicted Richness
R2 = 0.95
AIC = −246.2

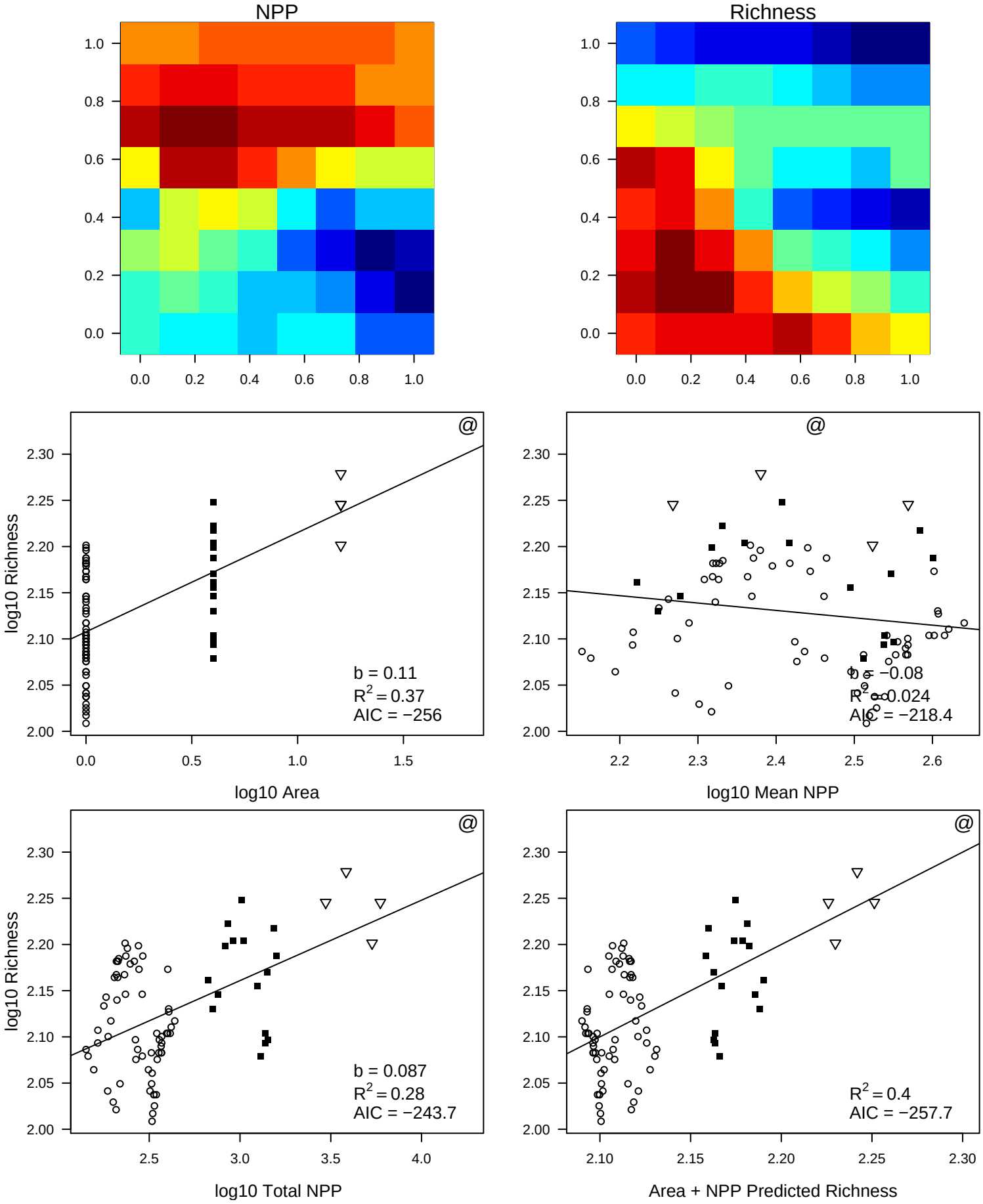
ID 37015


NPP
Richness
log10 Richness
log10 Area
b = 0.2
R2 = 0.18
AIC = −55.9
log10 Mean NPP
b = 1.2
R2 = 0.75
AIC = −136.3
log10 Total NPP
b = 0.28
R2 = 0.43
AIC = −80.3
Area + NPP Predicted Richness
R2 = 0.86
AIC = −171.1

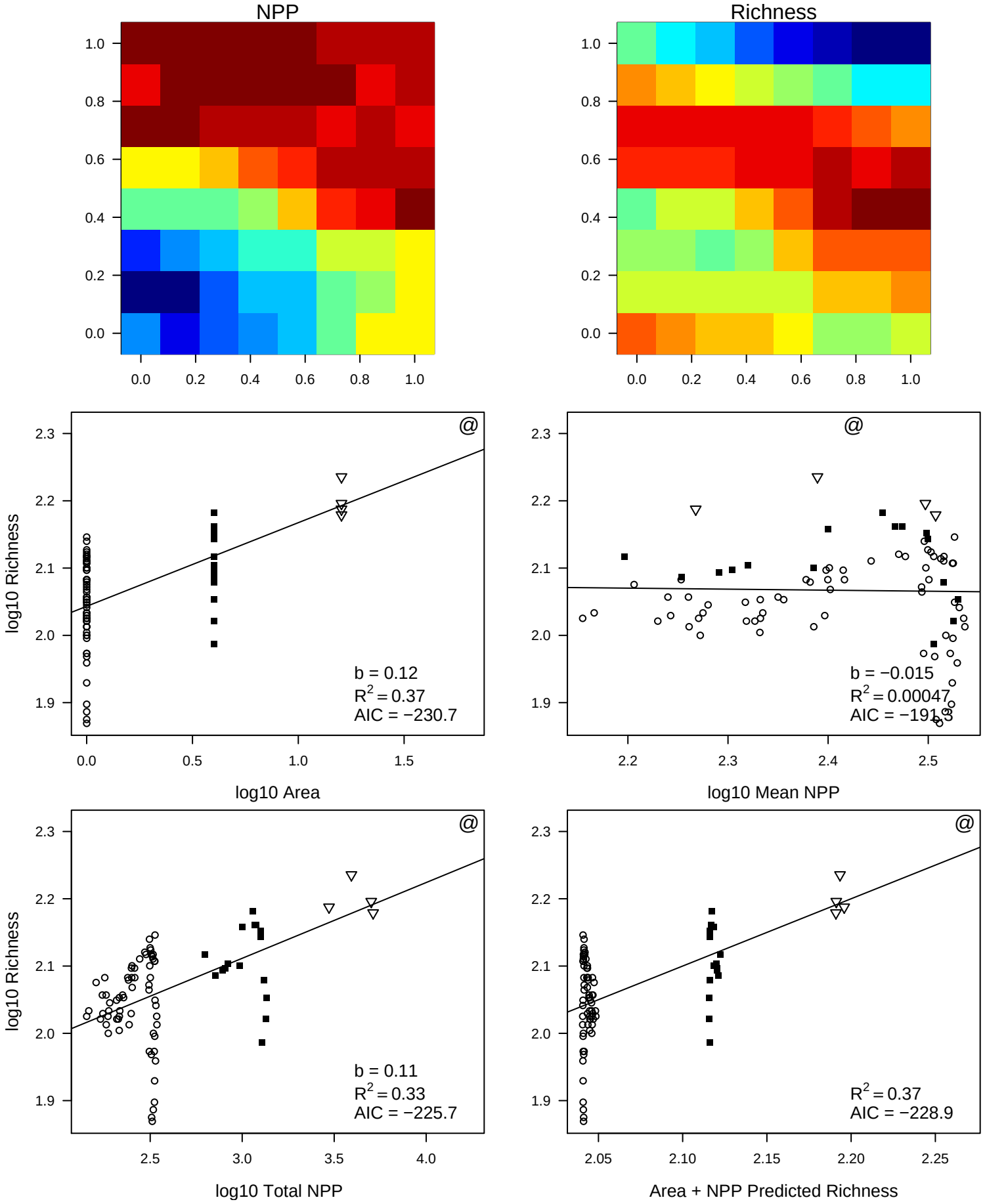
ID 8014


NPP
Richness
log10 Richness
log10 Area
b = 0.098
R2 = 0.36
AIC = −256.1
b = −0.32
R2 = 0.24
AIC = −241.9
log10 Mean NPP
log10 Richness
log10 Total NPP
b = 0.073
R2 = 0.22
AIC = −239.5
R2 = 0.6
AIC = −292.3
Area + NPP Predicted Richness

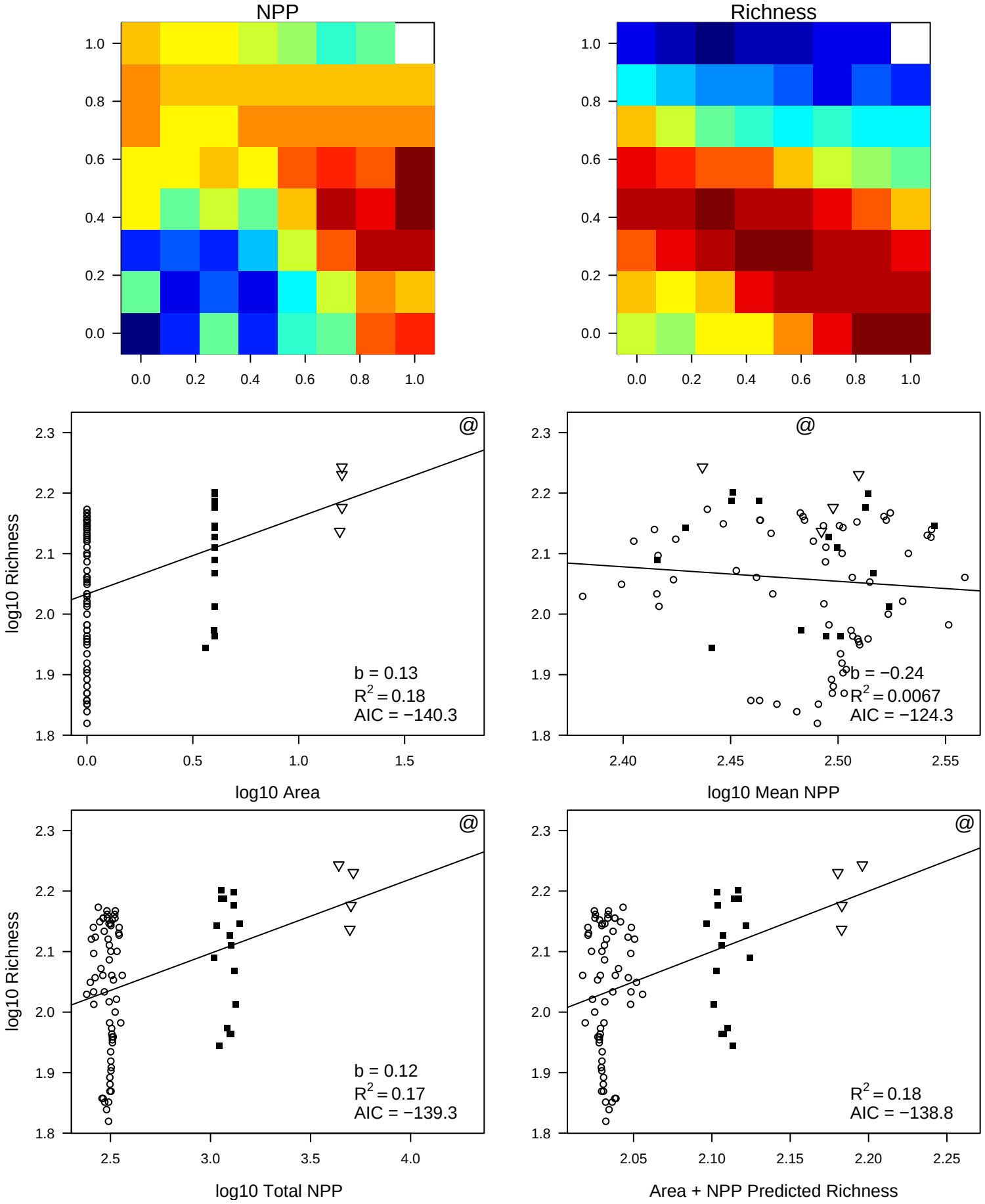
ID 9014


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.37
AIC = −256
log10 Mean NPP
b = −0.08
R2 = 0.024
AIC = −218.4
log10 Total NPP
b = 0.087
R2 = 0.28
AIC = −243.7
Area + NPP Predicted Richness
R2 = 0.4
AIC = −257.7

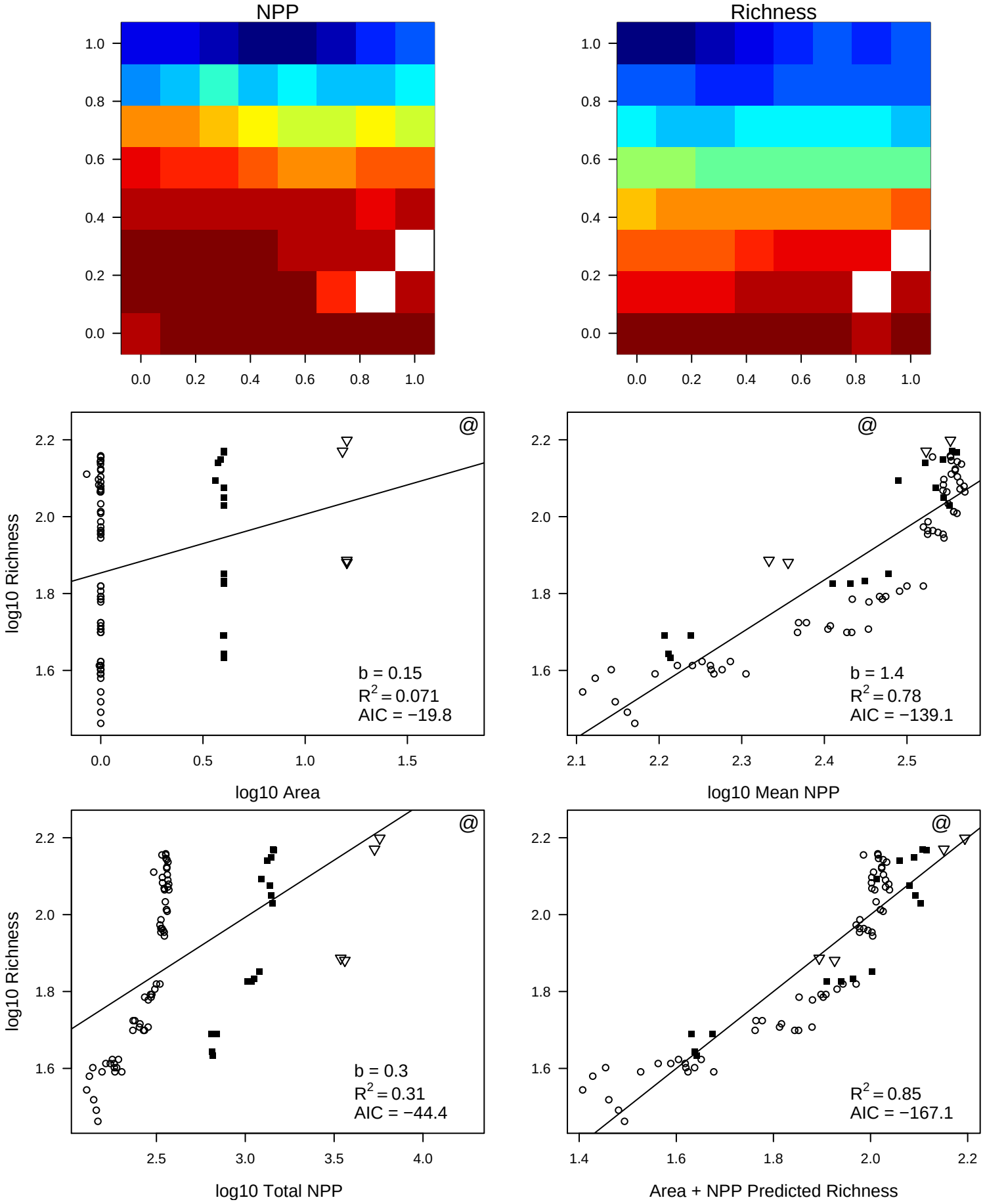
ID 10014


NPP
Richness
log10 Richness
log10 Area
b = 0.12
R2 = 0.37
AIC = −230.7
log10 Mean NPP
b = −0.015
R2 = 0.00047
AIC = −191.3
log10 Total NPP
b = 0.11
R2 = 0.33
AIC = −225.7
Area + NPP Predicted Richness
R2 = 0.37
AIC = −228.9

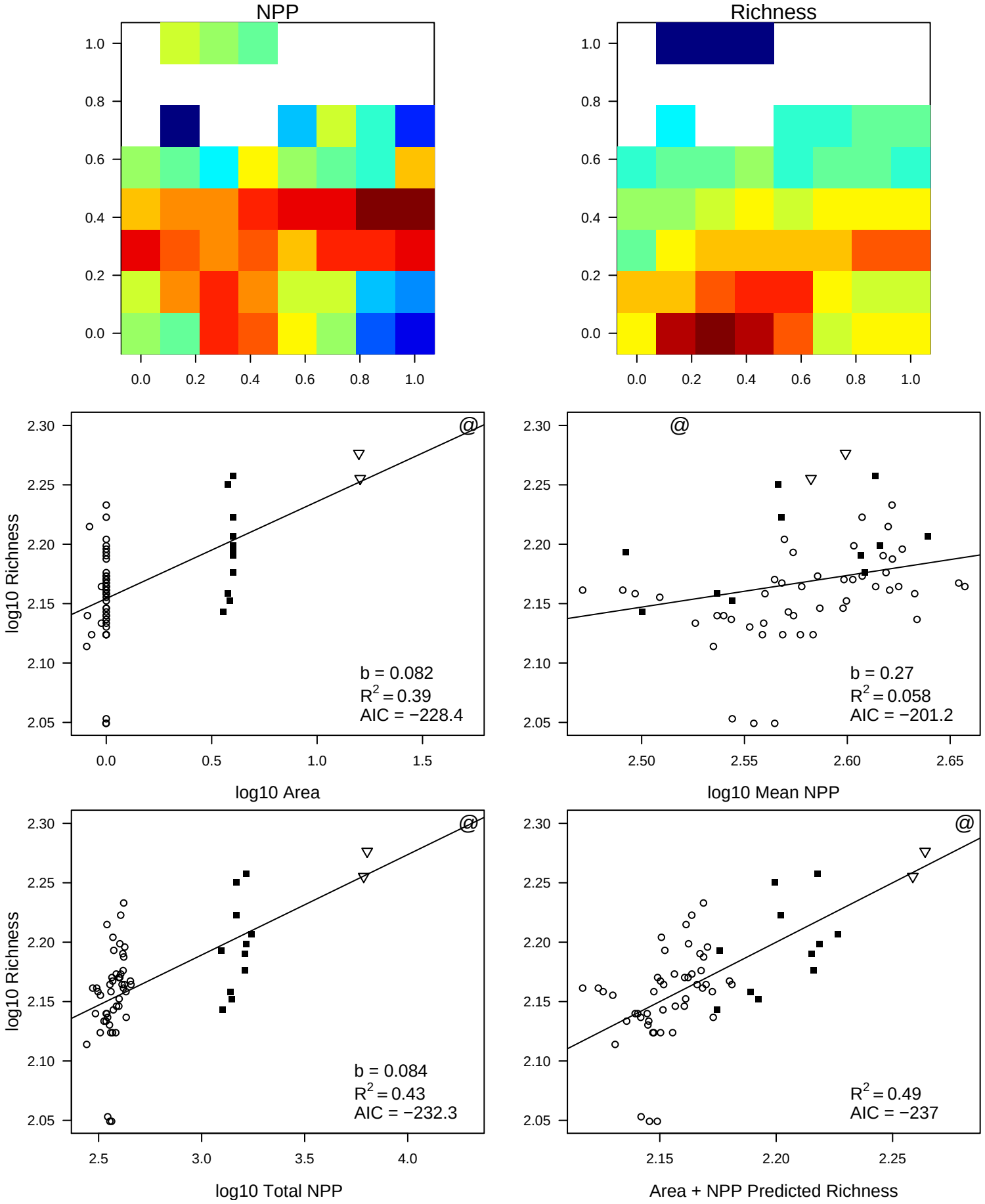
ID 11014


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.18
AIC = −140.3
log10 Mean NPP
b = −0.24
R2 = 0.0067
AIC = −124.3
log10 Total NPP
b = 0.12
R2 = 0.17
AIC = −139.3
Area + NPP Predicted Richness
R2 = 0.18
AIC = −138.8

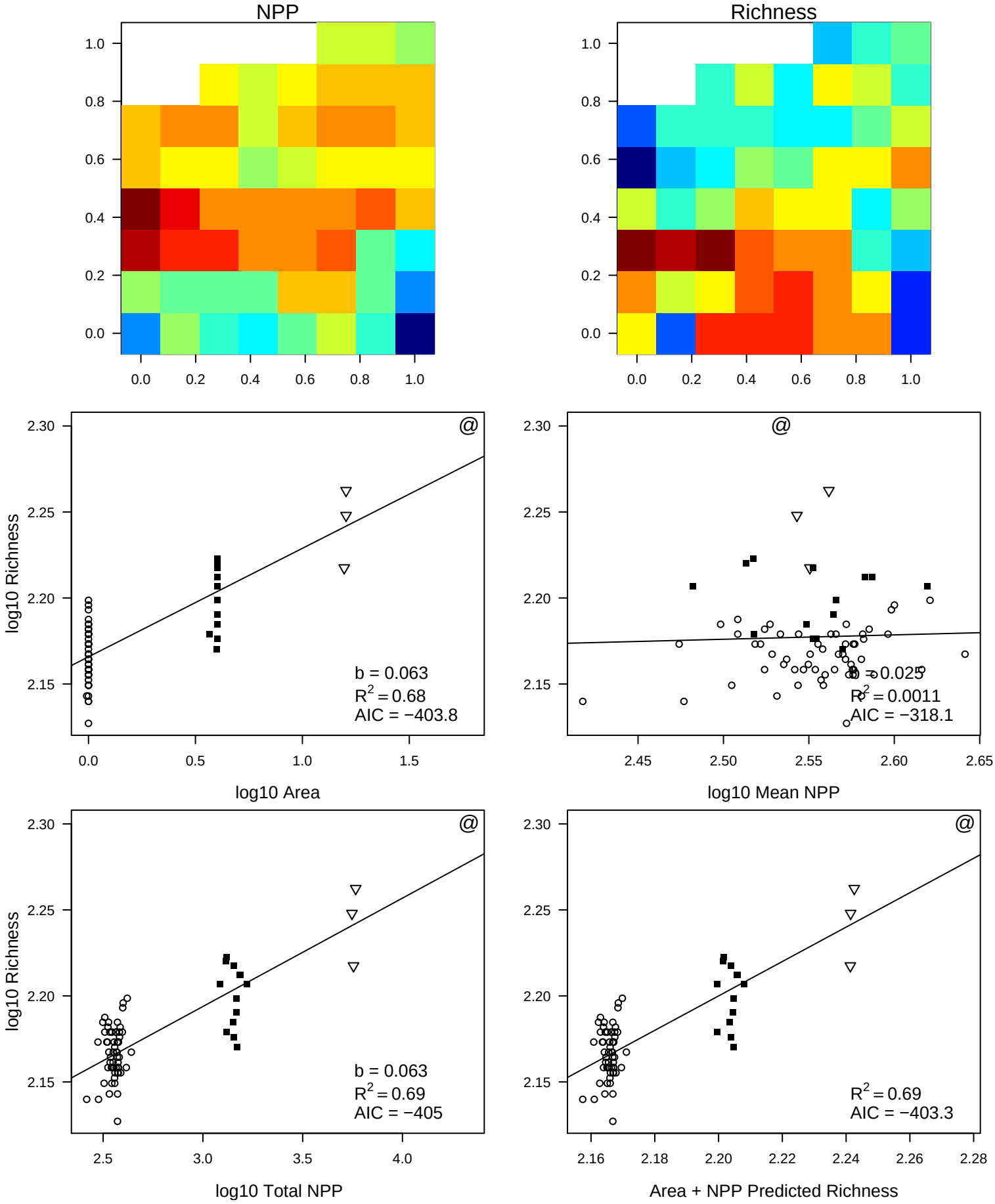
ID 14014


NPP
Richness
log10 Richness
log10 Area
b = 0.15
R2 = 0.071
AIC = −19.8
log10 Mean NPP
b = 1.4
R2 = 0.78
AIC = −139.1
log10 Total NPP
b = 0.3
R2 = 0.31
AIC = −44.4
Area + NPP Predicted Richness
R2 = 0.85
AIC = −167.1

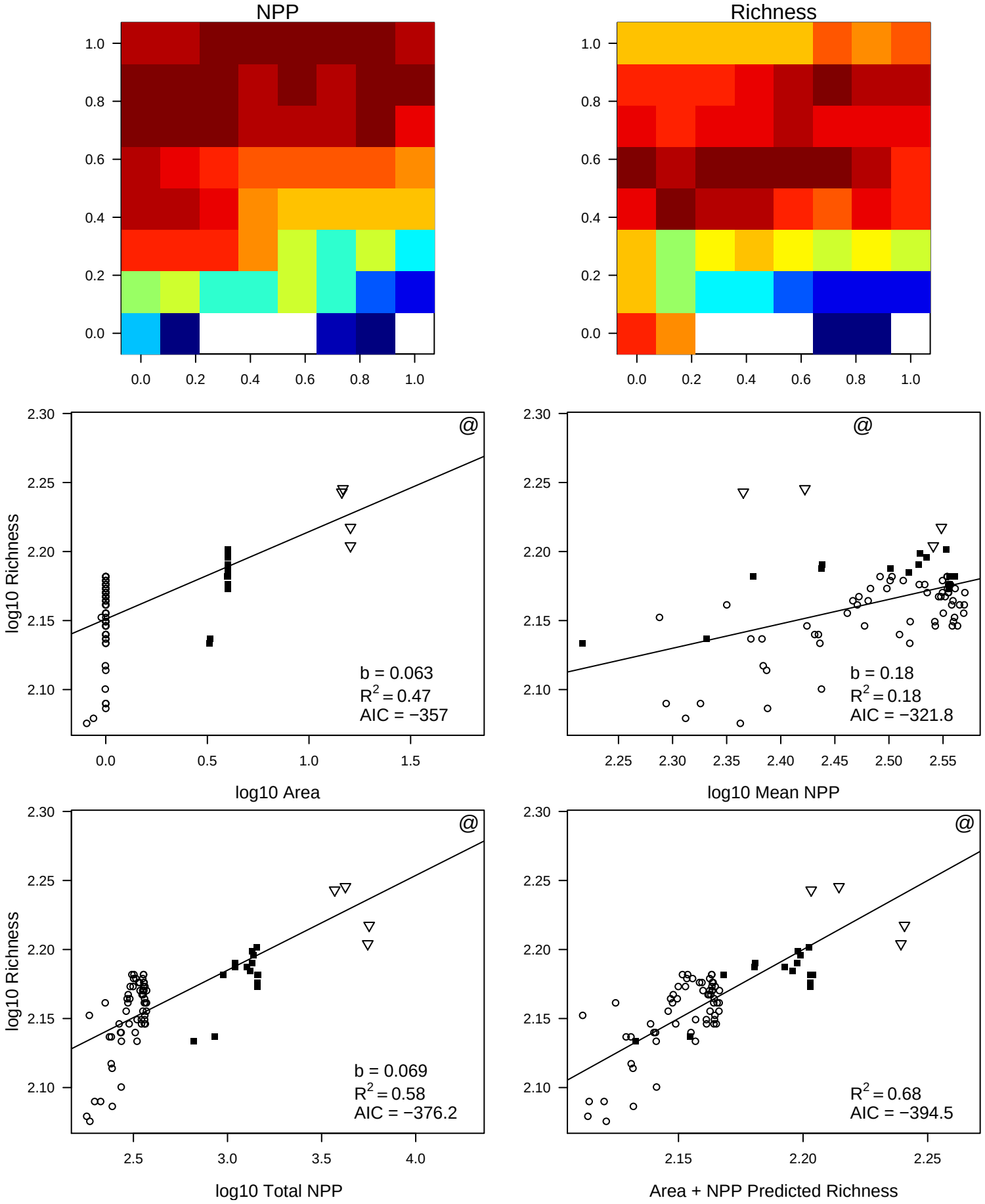
ID 25014


NPP
Richness
log10 Richness
log10 Area
b = 0.082
R2 = 0.39
AIC = −228.4
log10 Mean NPP
b = 0.27
R2 = 0.058
AIC = −201.2
log10 Total NPP
b = 0.084
R2 = 0.43
AIC = −232.3
Area + NPP Predicted Richness
R2 = 0.49
AIC = −237

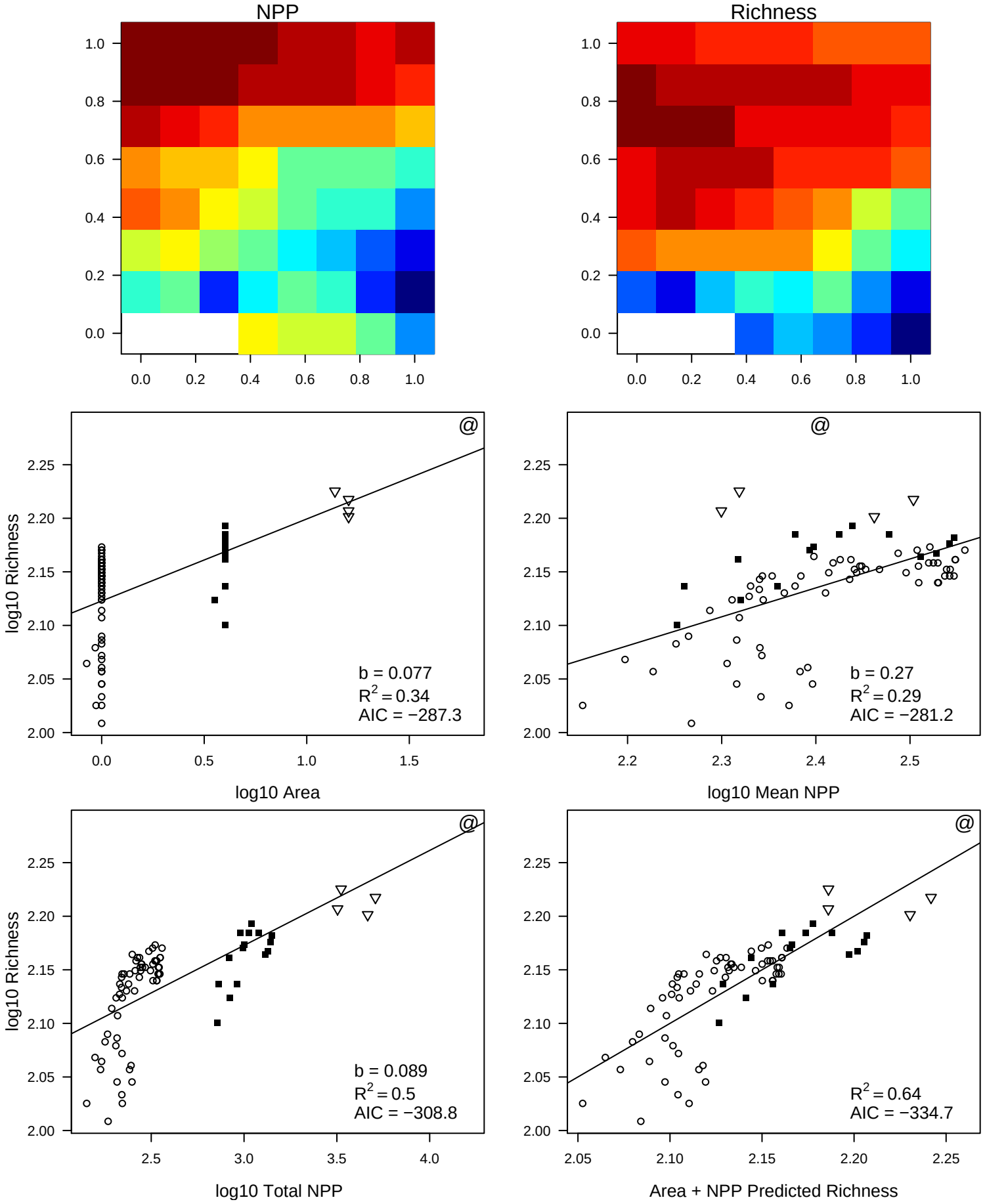
ID 26014


NPP
Richness
log10 Richness
log10 Area
b = 0.063
R2 = 0.68
AIC = −403.8
b = −0.025
R2 = 0.0011
AIC = −318.1
log10 Mean NPP
log10 Richness
log10 Total NPP
b = 0.063
R2 = 0.69
AIC = −405
R2 = 0.69
AIC = −403.3
Area + NPP Predicted Richness

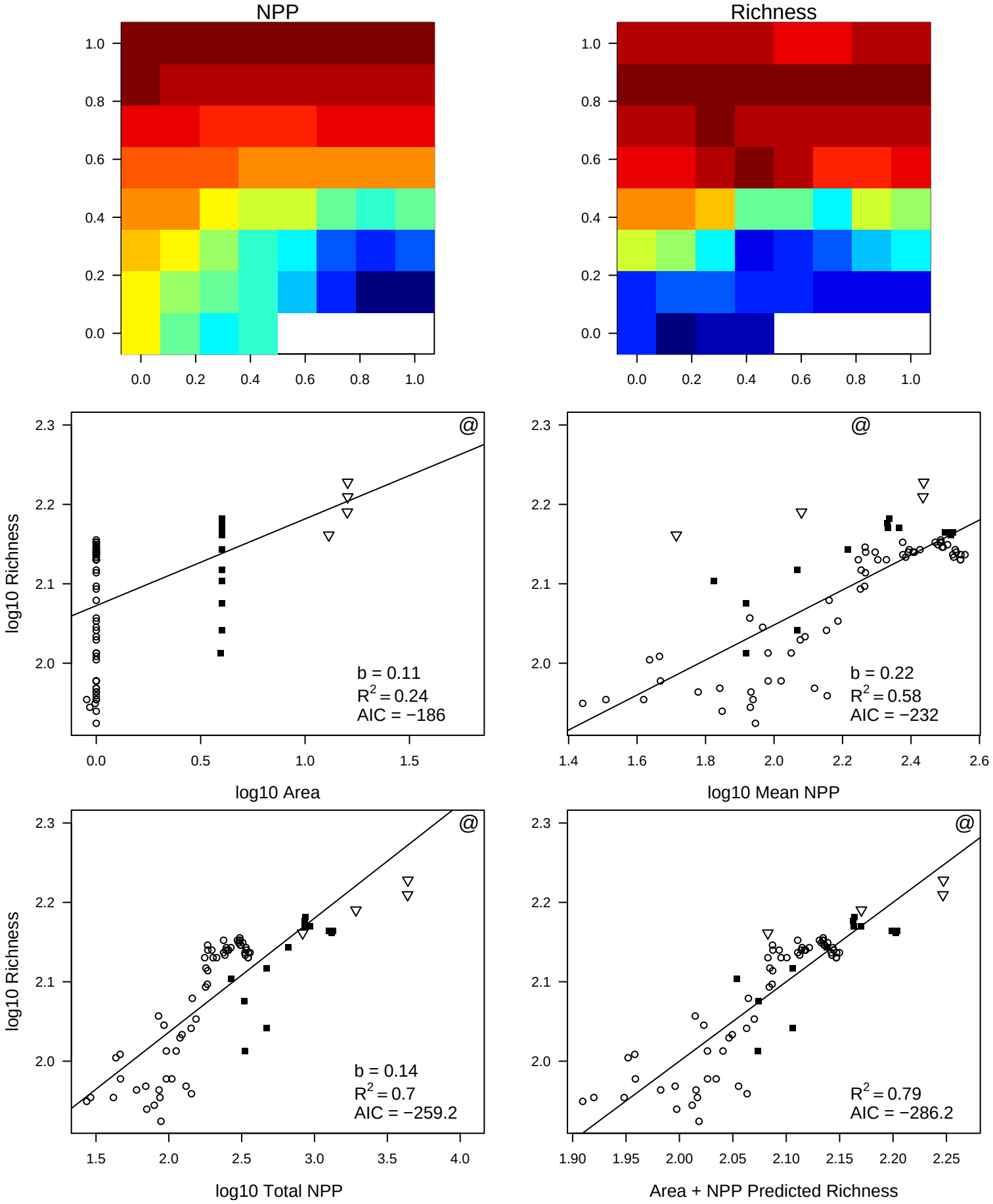
ID 27014


NPP
Richness
log10 Richness
log10 Area
b = 0.063
R2 = 0.47
AIC = −357
log10 Mean NPP
b = 0.18
R2 = 0.18
AIC = −321.8
log10 Total NPP
b = 0.069
R2 = 0.58
AIC = −376.2
Area + NPP Predicted Richness
R2 = 0.68
AIC = −394.5

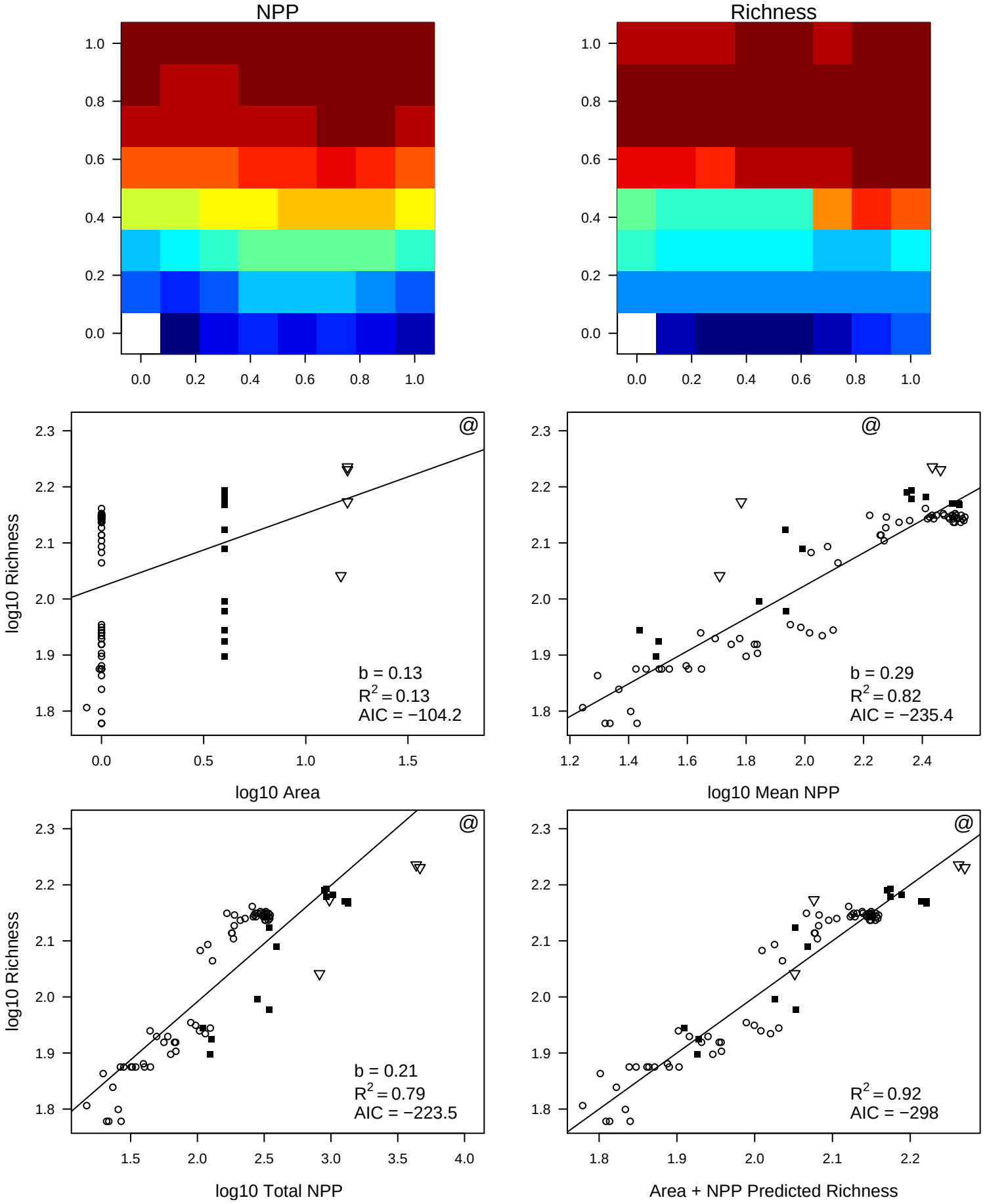
ID 28014


NPP
Richness
log10 Richness
log10 Area
b = 0.077
R2 = 0.34
AIC = −287.3
log10 Mean NPP
b = 0.27
R2 = 0.29
AIC = −281.2
log10 Total NPP
b = 0.089
R2 = 0.5
AIC = −308.8
Area + NPP Predicted Richness
R2 = 0.64
AIC = −334.7

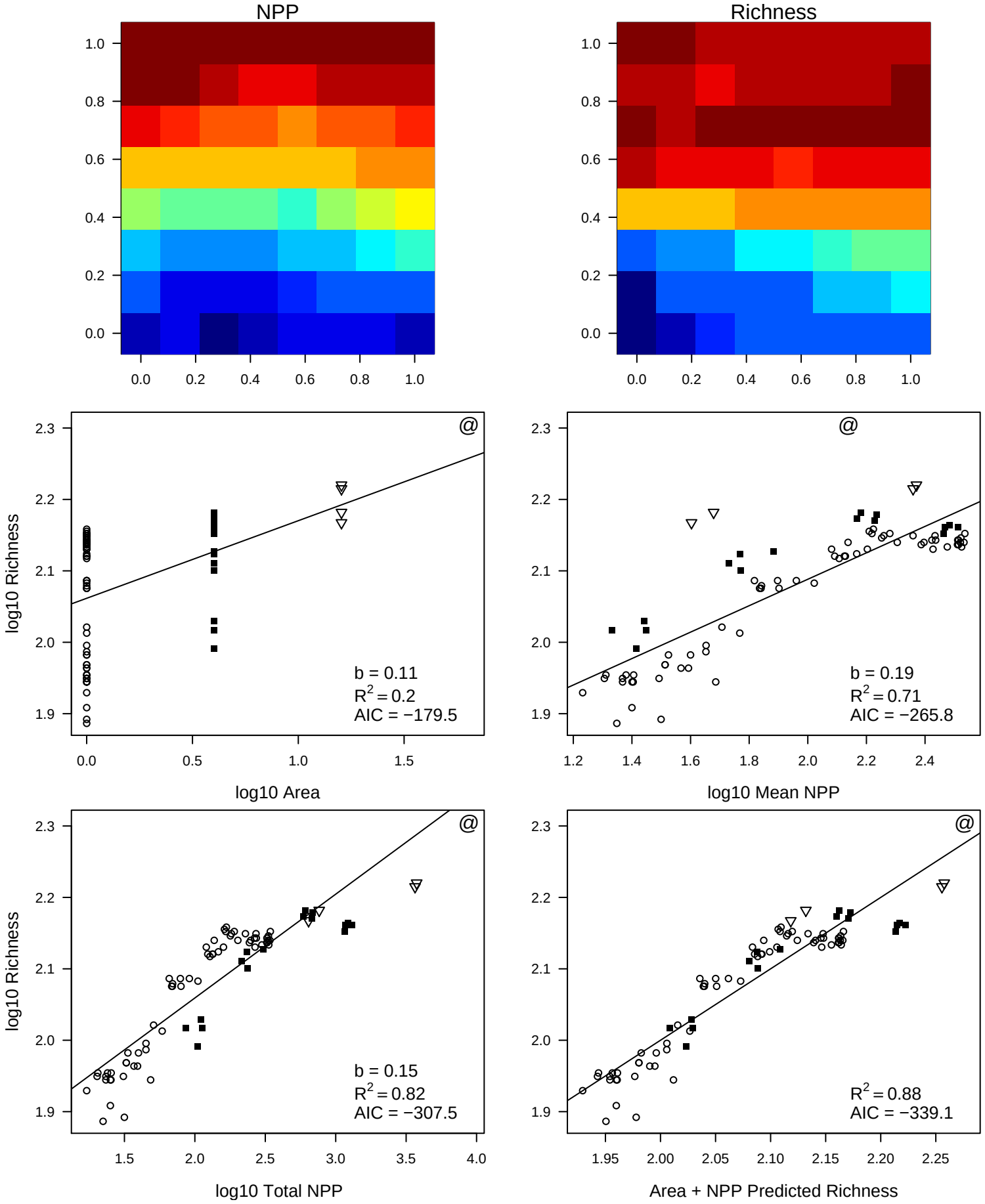
ID 29014


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.24
AIC = −186
log10 Mean NPP
b = 0.22
R2 = 0.58
AIC = −232
log10 Total NPP
b = 0.14
R2 = 0.7
AIC = −259.2
Area + NPP Predicted Richness
R2 = 0.79
AIC = −286.2

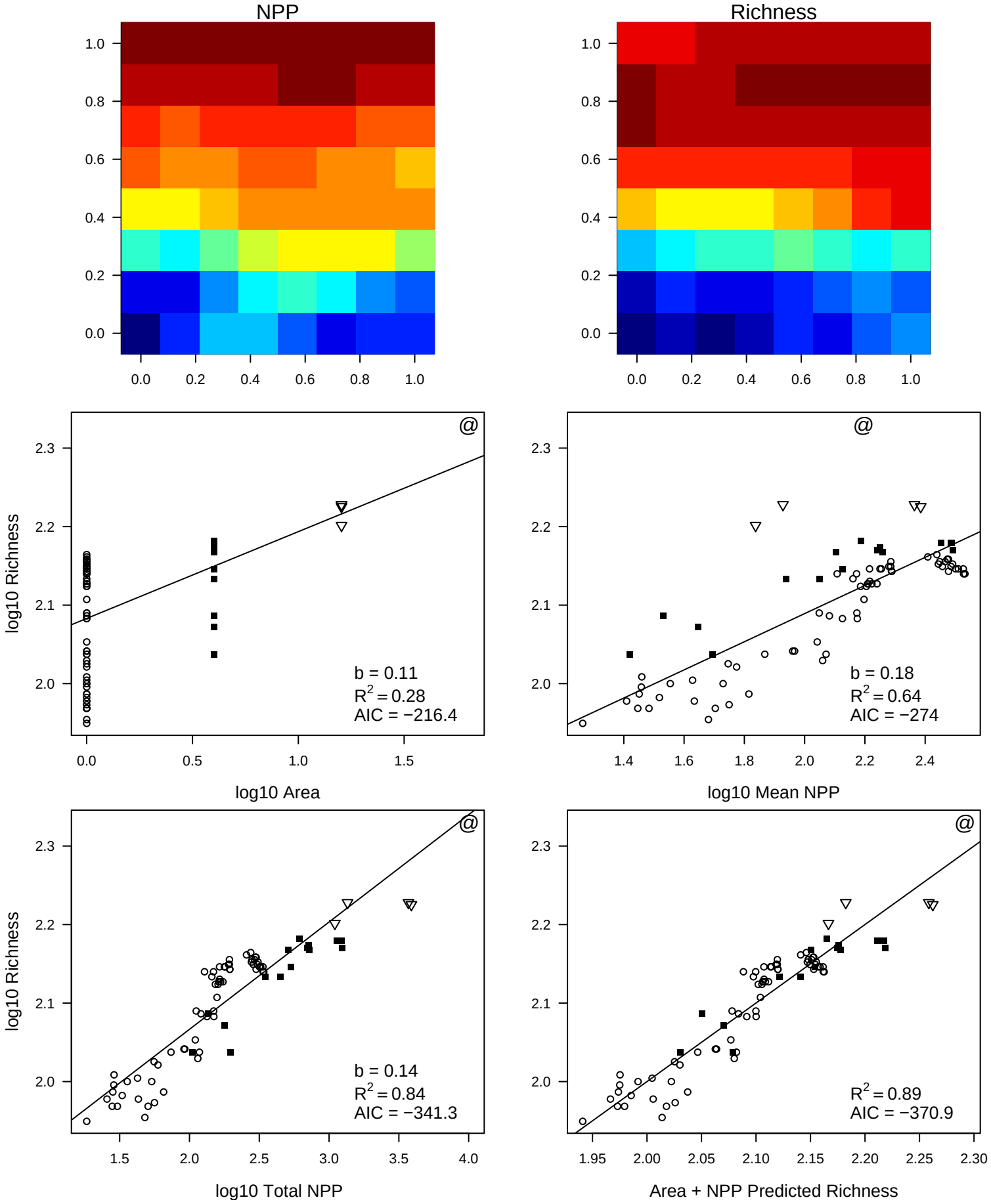
ID 30014


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.13
AIC = −104.2
log10 Mean NPP
b = 0.29
R2 = 0.82
AIC = −235.4
log10 Total NPP
b = 0.21
R2 = 0.79
AIC = −223.5
Area + NPP Predicted Richness
R2 = 0.92
AIC = −298

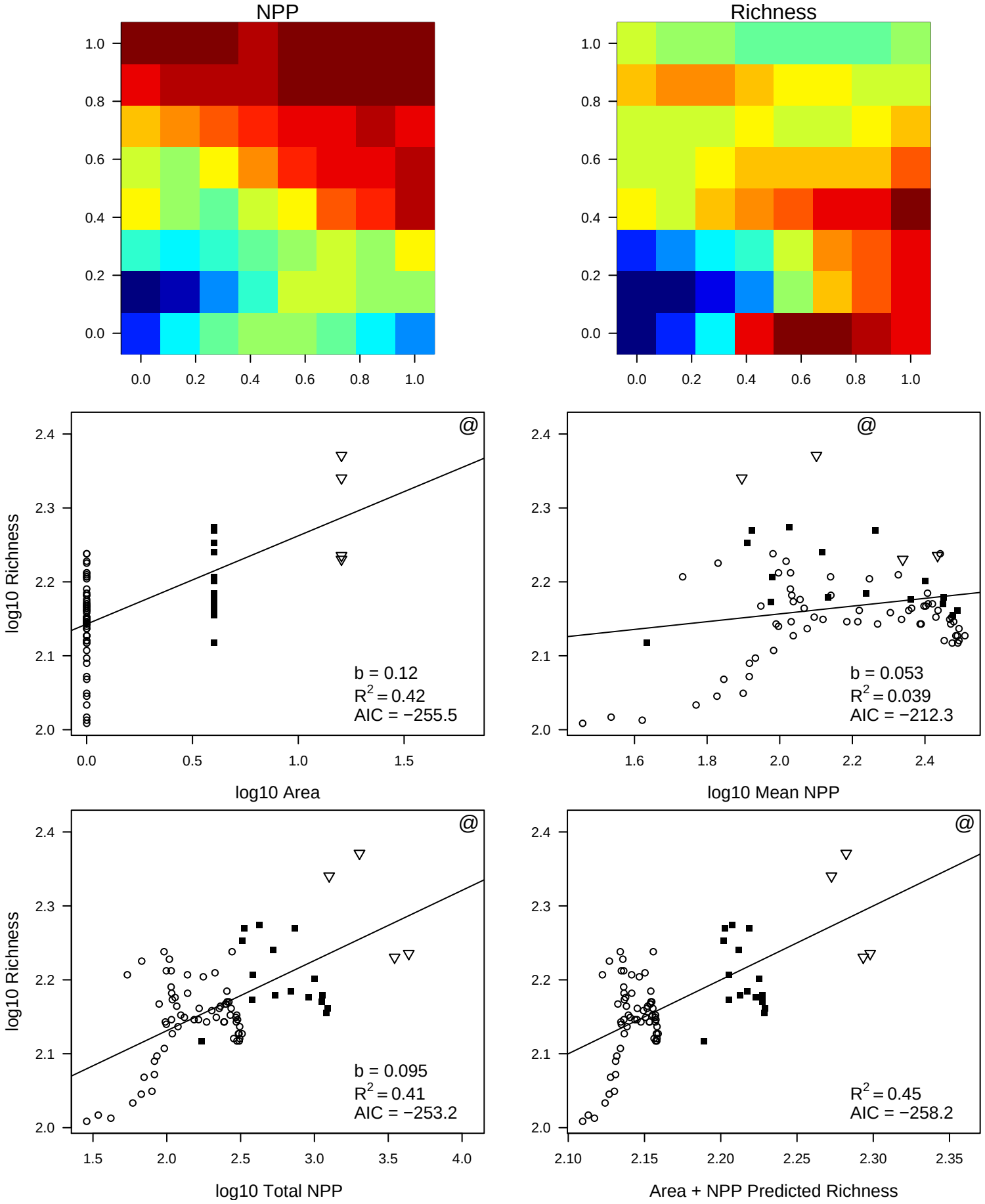
ID 31014


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.2
AIC = −179.5
log10 Mean NPP
b = 0.19
R2 = 0.71
AIC = −265.8
log10 Total NPP
b = 0.15
R2 = 0.82
AIC = −307.5
Area + NPP Predicted Richness
R2 = 0.88
AIC = −339.1

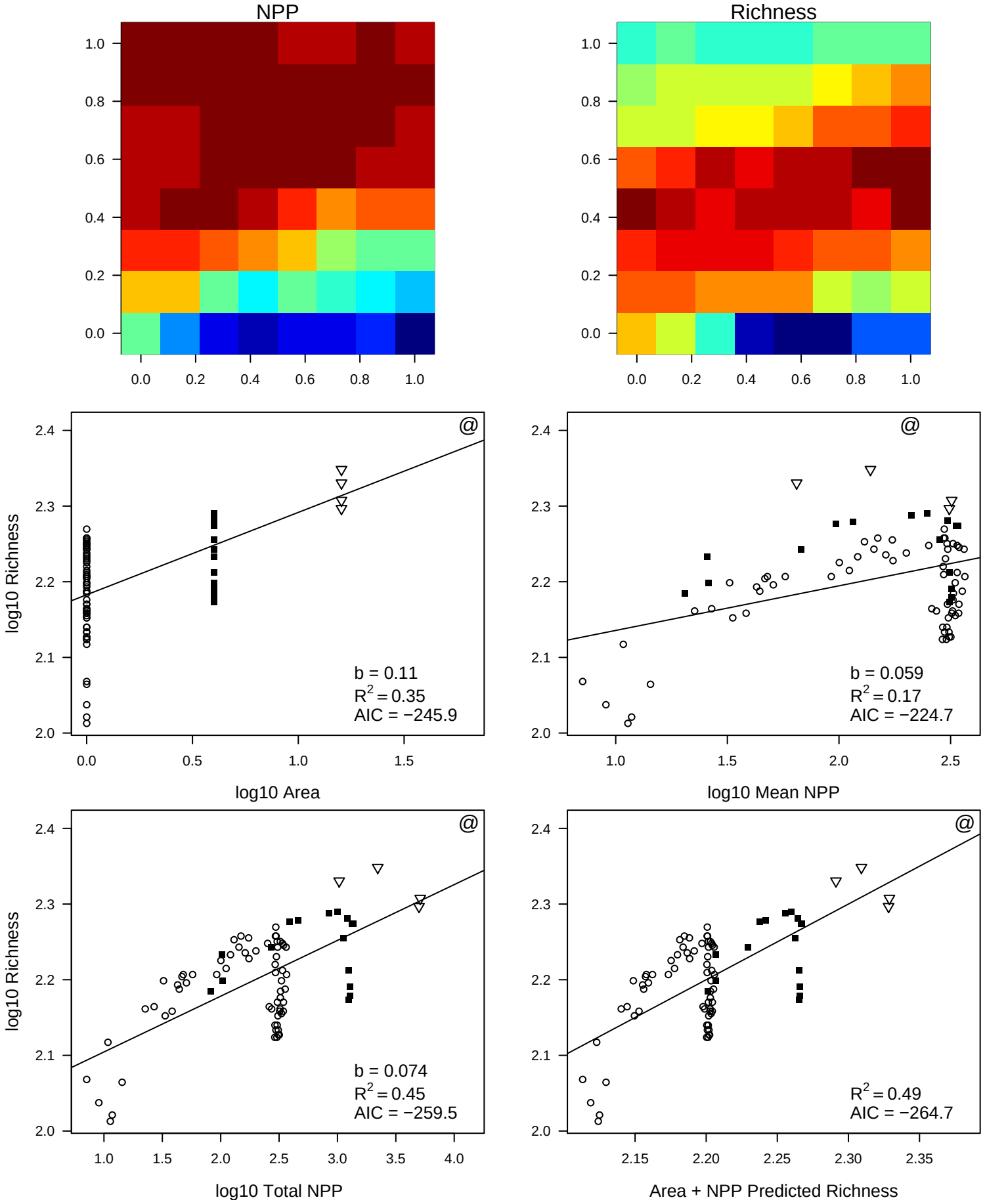
ID 32014


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.28
AIC = −216.4
log10 Mean NPP
b = 0.18
R2 = 0.64
AIC = −274
log10 Total NPP
b = 0.14
R2 = 0.84
AIC = −341.3
Area + NPP Predicted Richness
R2 = 0.89
AIC = −370.9

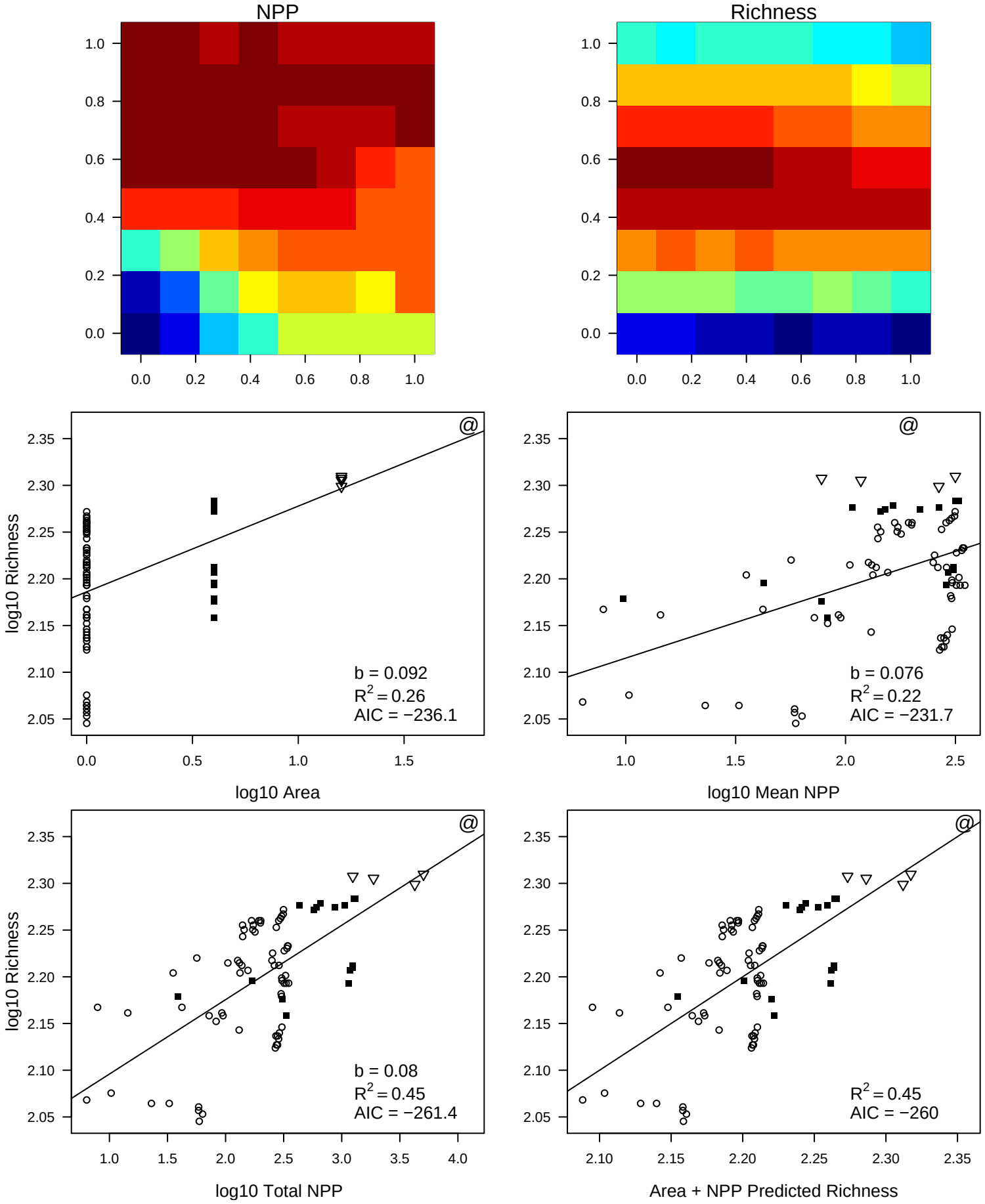
ID 33014


NPP
Richness
log10 Richness
log10 Area
b = 0.12
R2 = 0.42
AIC = −255.5
log10 Mean NPP
b = 0.053
R2 = 0.039
AIC = −212.3
log10 Total NPP
b = 0.095
R2 = 0.41
AIC = −253.2
Area + NPP Predicted Richness
R2 = 0.45
AIC = −258.2

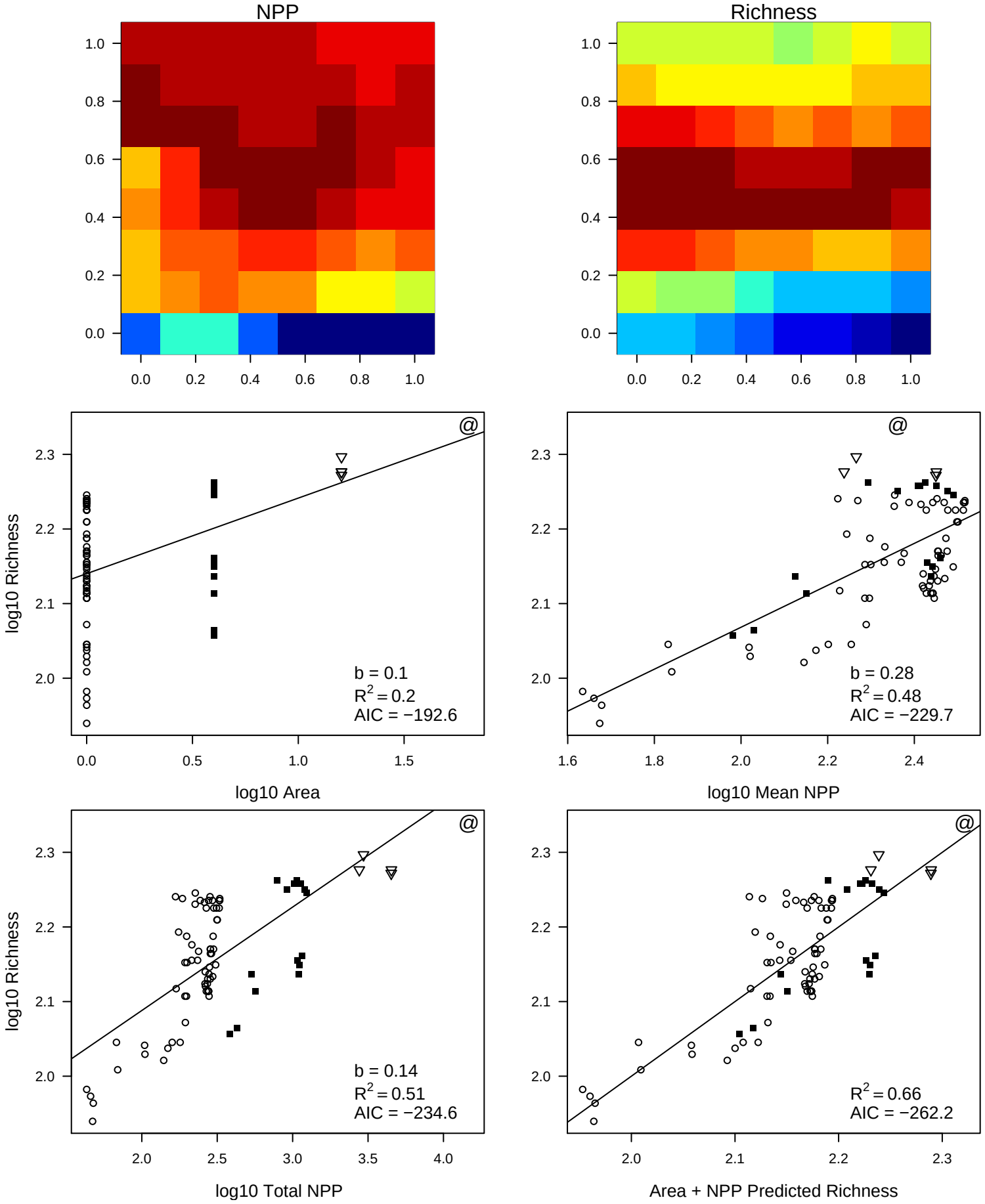
ID 34014


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.35
AIC = −245.9
log10 Mean NPP
b = 0.059
R2 = 0.17
AIC = −224.7
log10 Total NPP
b = 0.074
R2 = 0.45
AIC = −259.5
Area + NPP Predicted Richness
R2 = 0.49
AIC = −264.7

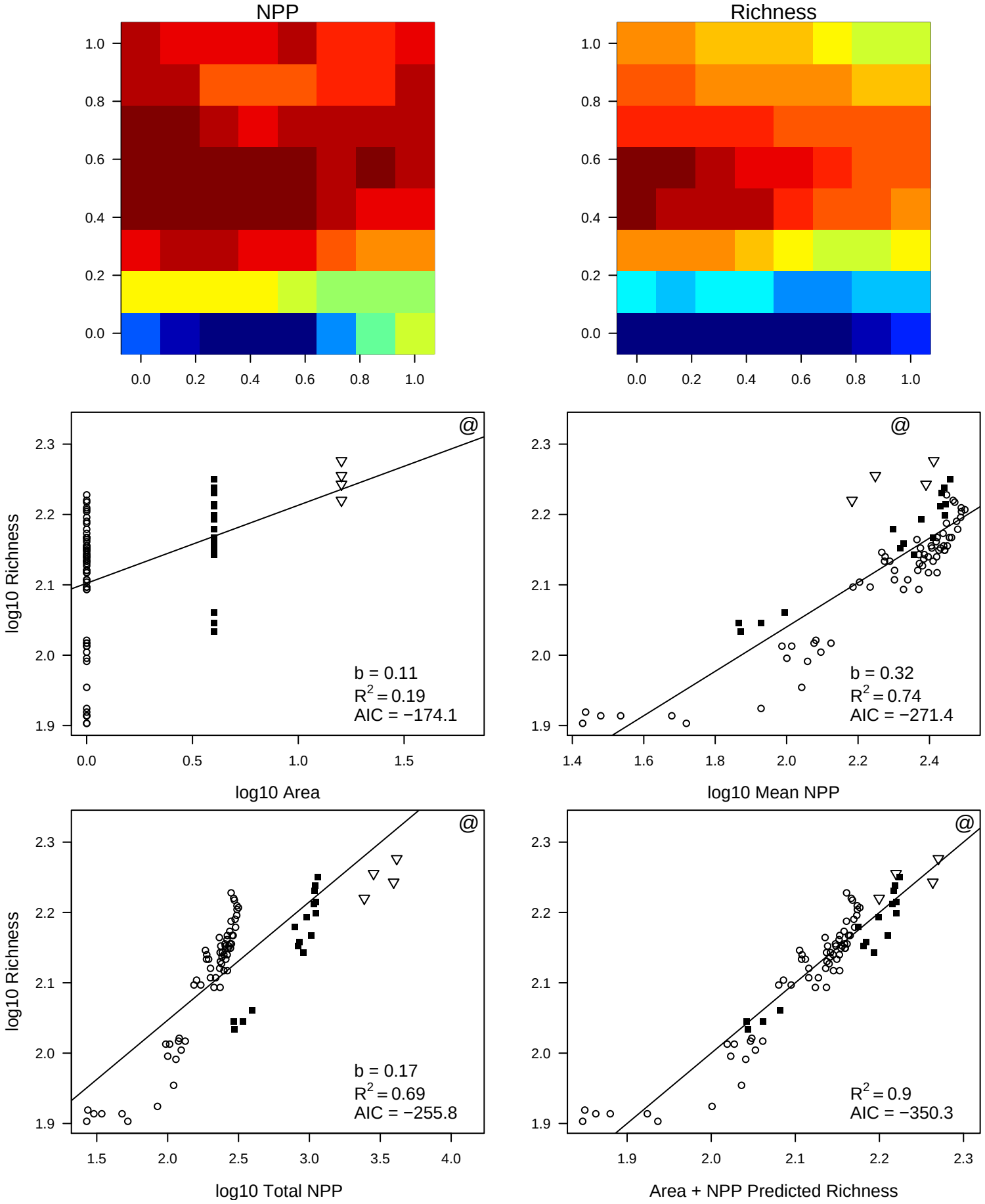
ID 35014


NPP
Richness
log10 Richness
log10 Area
b = 0.092
R2 = 0.26
AIC = −236.1
log10 Mean NPP
b = 0.076
R2 = 0.22
AIC = −231.7
log10 Total NPP
b = 0.08
R2 = 0.45
AIC = −261.4
Area + NPP Predicted Richness
R2 = 0.45
AIC = −260

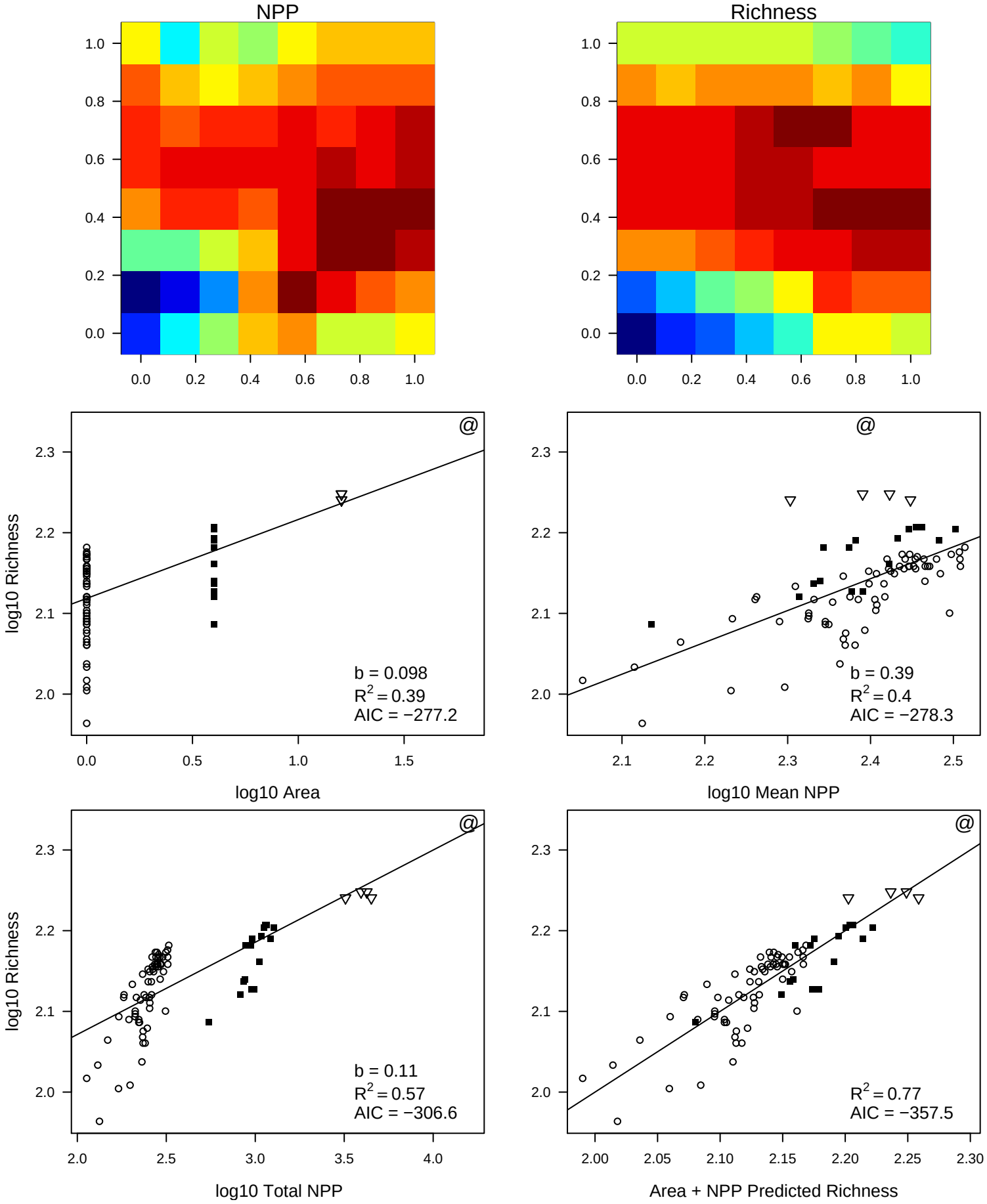
ID 36014


NPP
Richness
log10 Richness
log10 Area
b = 0.1
R2 = 0.2
AIC = −192.6
log10 Mean NPP
b = 0.28
R2 = 0.48
AIC = −229.7
log10 Total NPP
b = 0.14
R2 = 0.51
AIC = −234.6
Area + NPP Predicted Richness
R2 = 0.66
AIC = −262.2

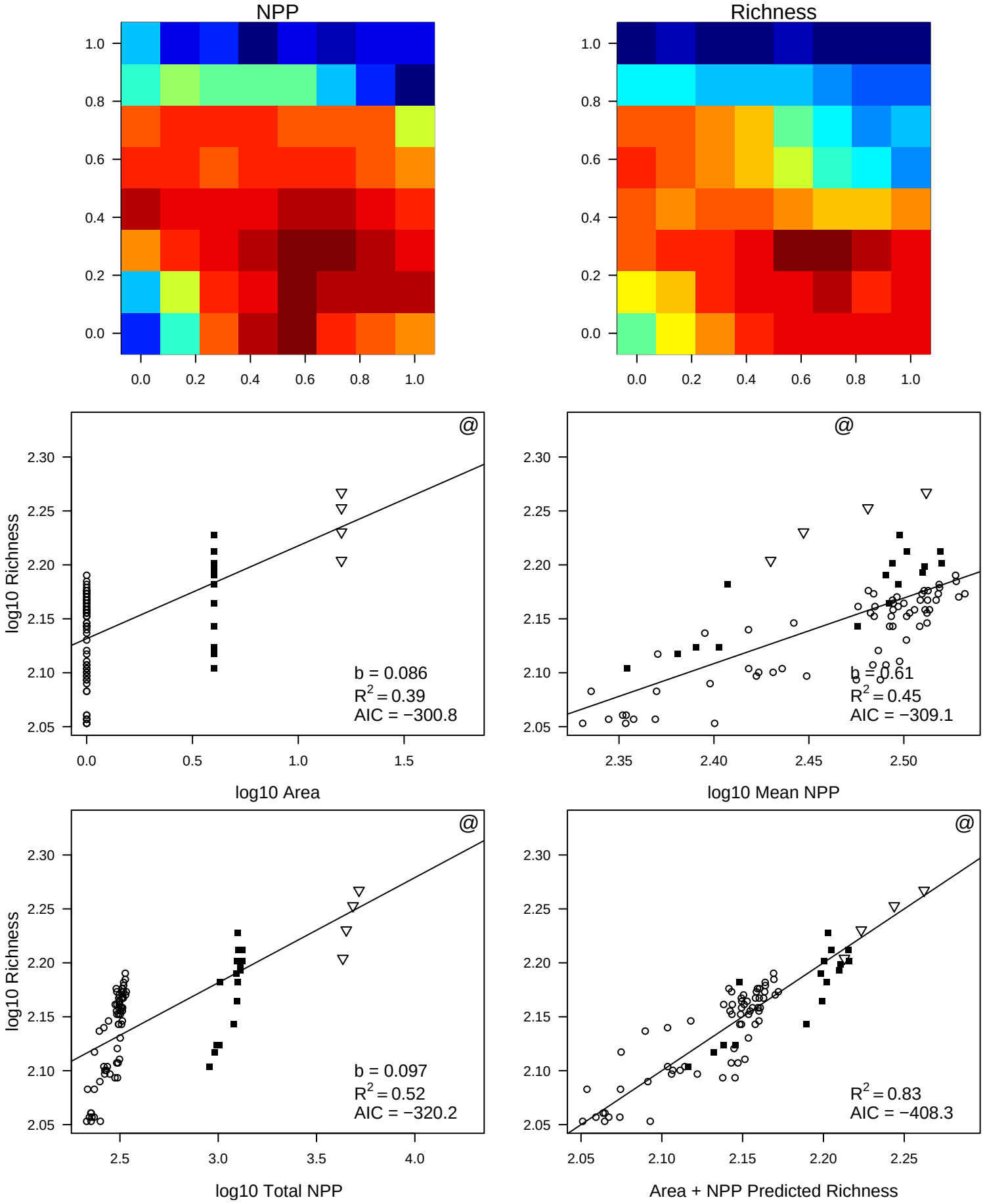
ID 37014


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.19
AIC = −174.1
log10 Mean NPP
b = 0.32
R2 = 0.74
AIC = −271.4
log10 Total NPP
b = 0.17
R2 = 0.69
AIC = −255.8
Area + NPP Predicted Richness
R2 = 0.9
AIC = −350.3

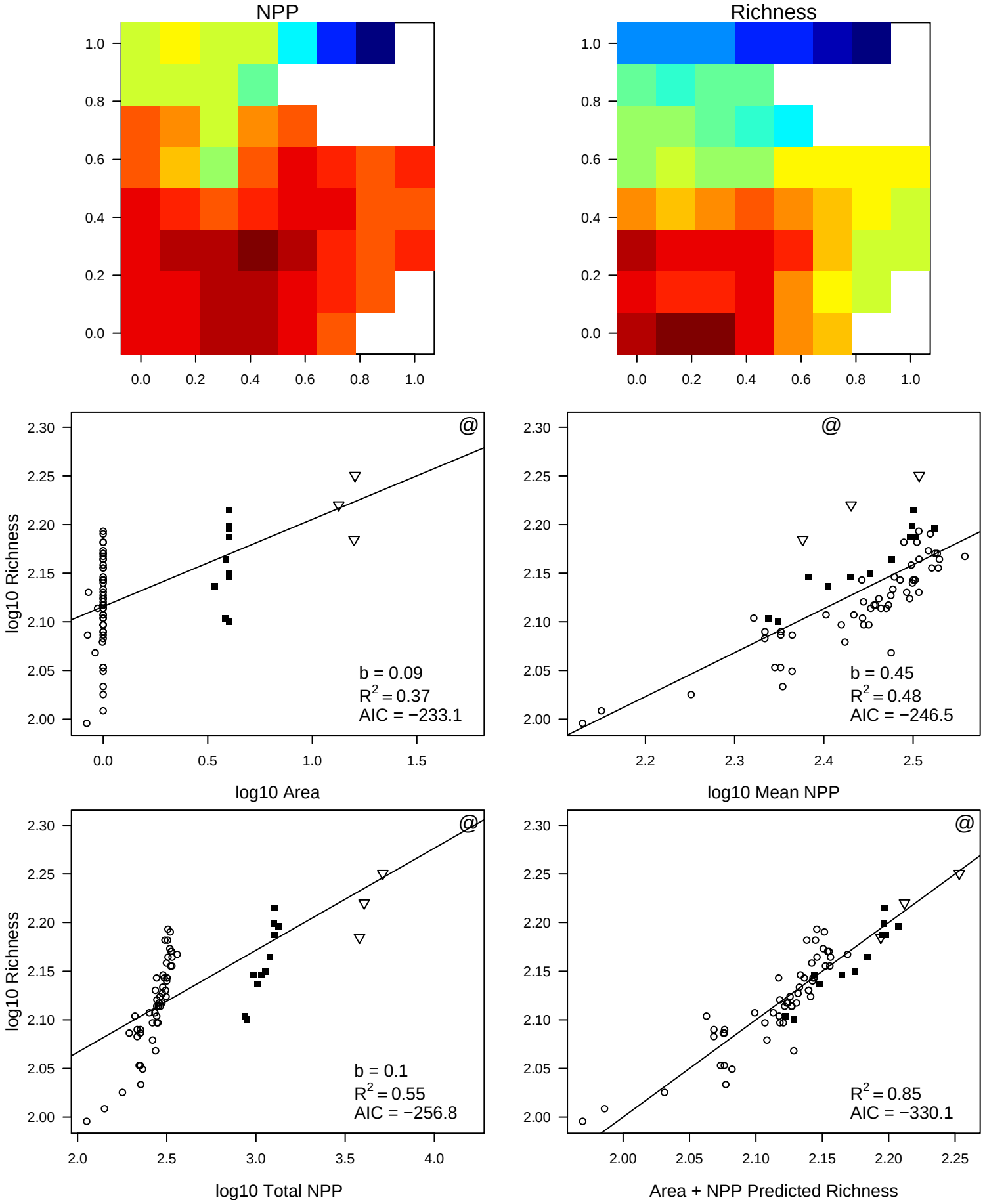
ID 38014


NPP
Richness
log10 Richness
log10 Area
b = 0.098
R2 = 0.39
AIC = −277.2
log10 Mean NPP
b = 0.39
R2 = 0.4
AIC = −278.3
log10 Total NPP
b = 0.11
R2 = 0.57
AIC = −306.6
Area + NPP Predicted Richness
R2 = 0.77
AIC = −357.5

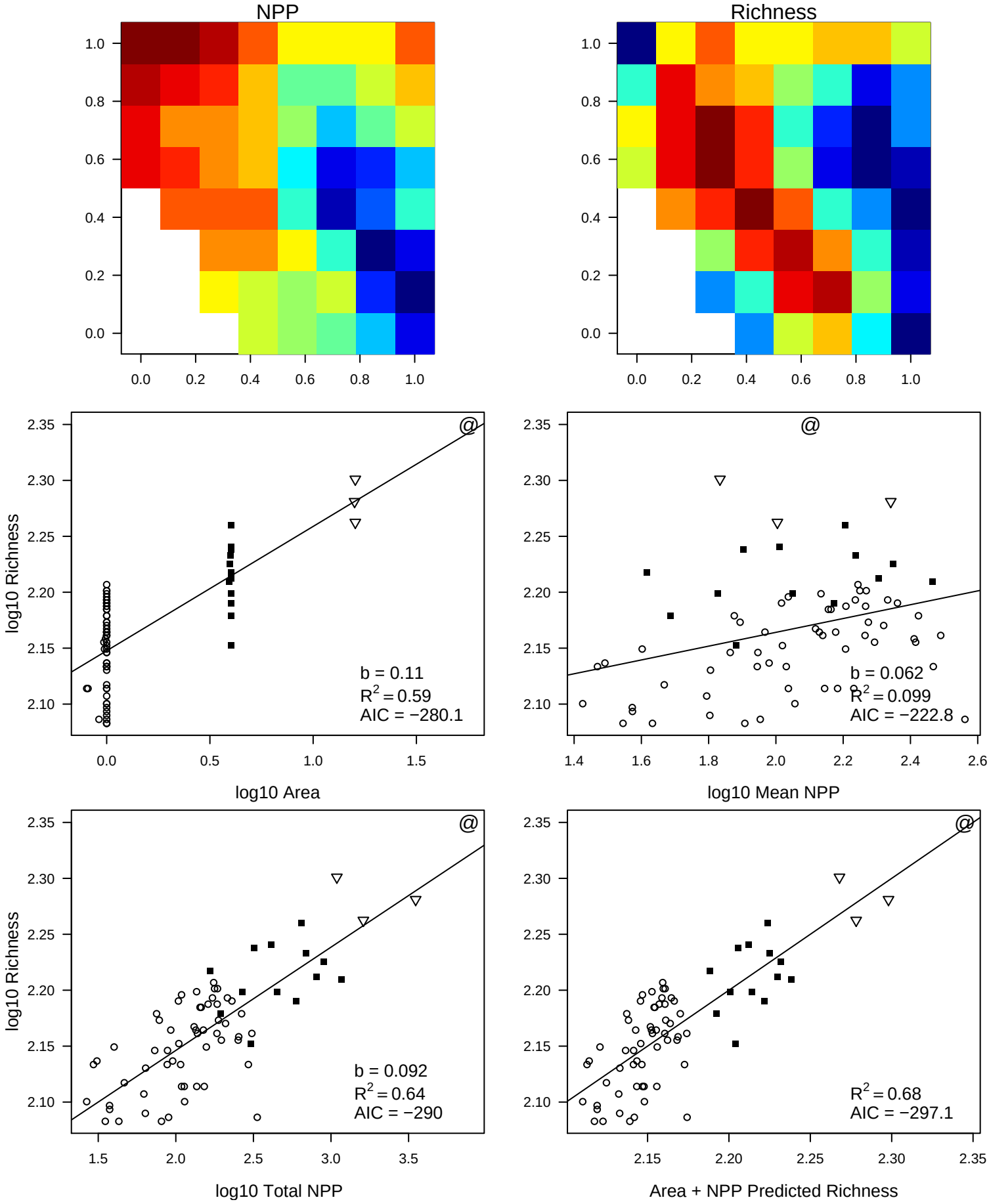
ID 39014


NPP
Richness
log10 Richness
log10 Area
b = 0.086
R2 = 0.39
AIC = −300.8
log10 Mean NPP
b = 0.61
R2 = 0.45
AIC = −309.1
log10 Total NPP
b = 0.097
R2 = 0.52
AIC = −320.2
Area + NPP Predicted Richness
R2 = 0.83
AIC = −408.3

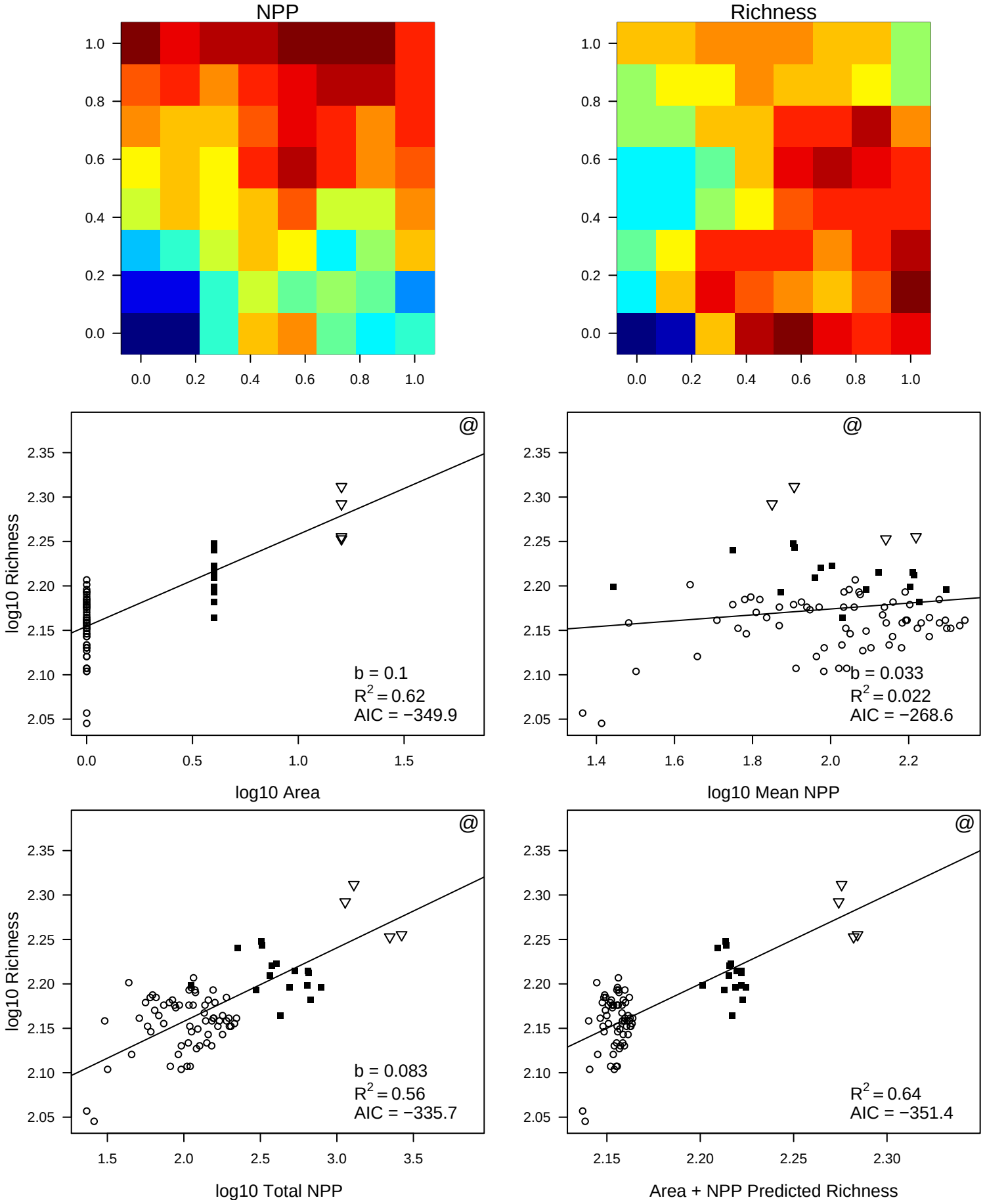
ID 40014


NPP
Richness
log10 Richness
log10 Area
b = 0.09
R2 = 0.37
AIC = −233.1
log10 Mean NPP
b = 0.45
R2 = 0.48
AIC = −246.5
log10 Total NPP
b = 0.1
R2 = 0.55
AIC = −256.8
Area + NPP Predicted Richness
R2 = 0.85
AIC = −330.1

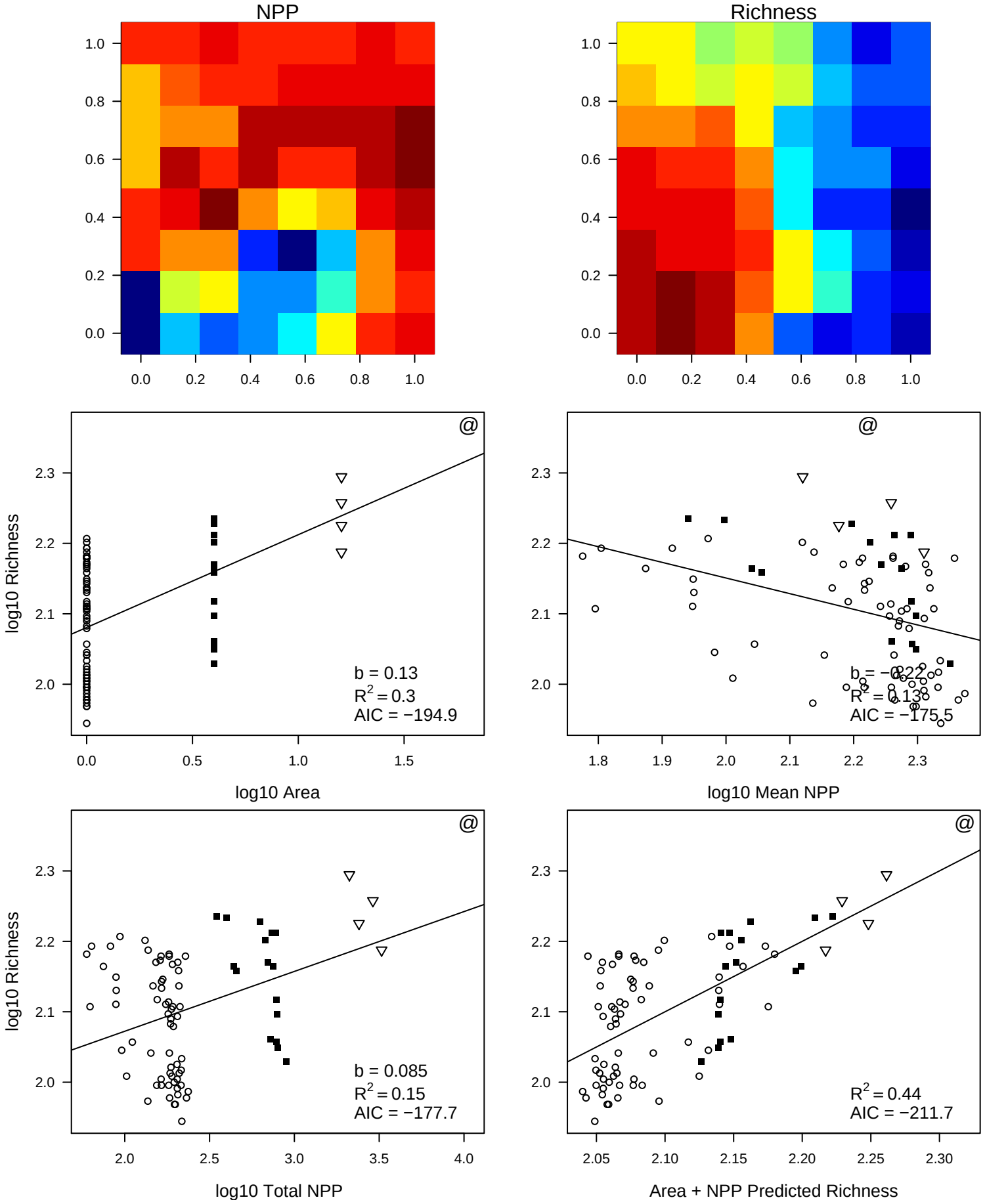
ID 8013


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.59
AIC = −280.1
log10 Mean NPP
b = 0.062
R2 = 0.099
AIC = −222.8
log10 Total NPP
b = 0.092
R2 = 0.64
AIC = −290
Area + NPP Predicted Richness
R2 = 0.68
AIC = −297.1

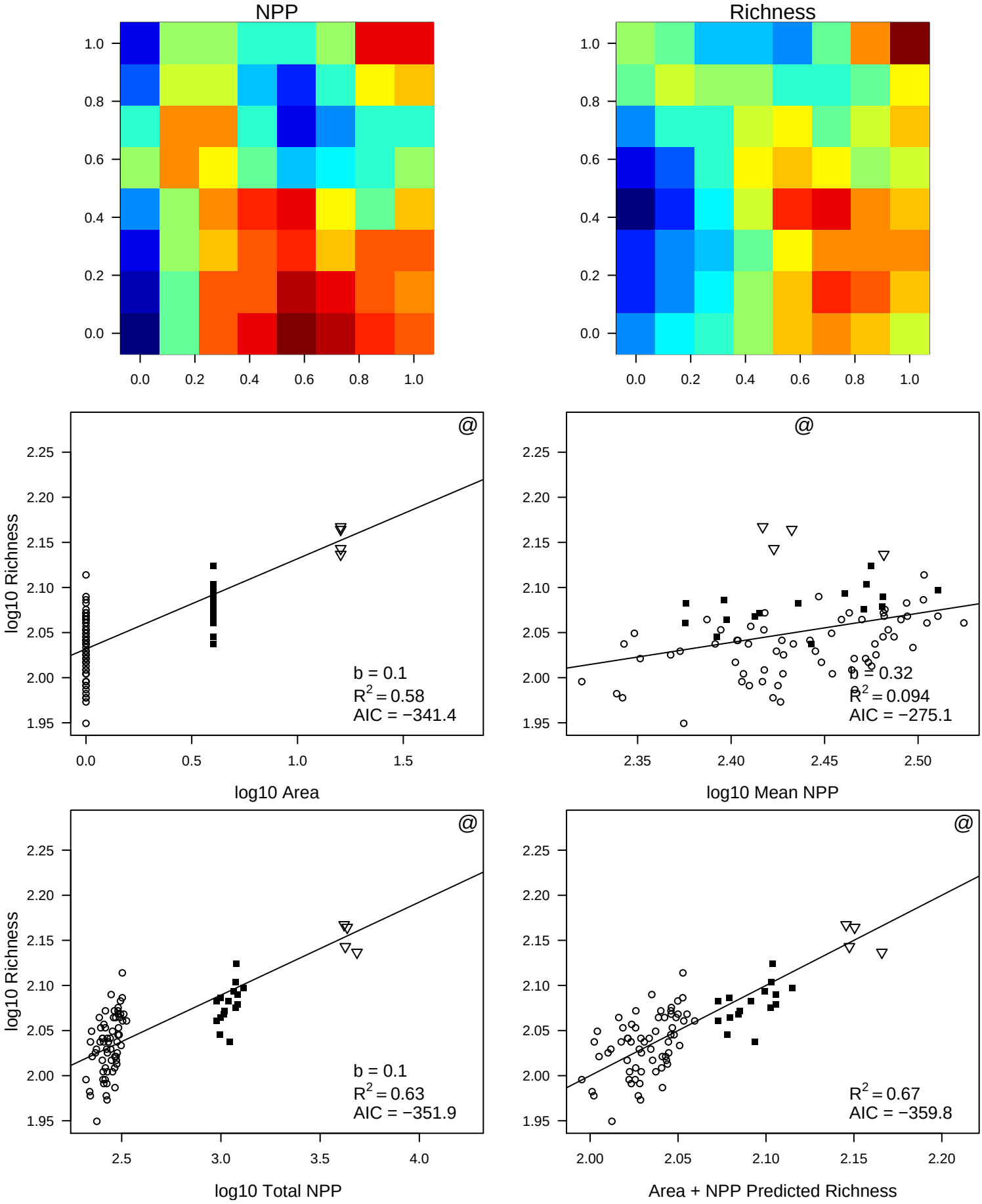
ID 9013


NPP
Richness
log10 Richness
log10 Area
b = 0.1
R2 = 0.62
AIC = −349.9
log10 Mean NPP
b = 0.033
R2 = 0.022
AIC = −268.6
log10 Total NPP
b = 0.083
R2 = 0.56
AIC = −335.7
Area + NPP Predicted Richness
R2 = 0.64
AIC = −351.4

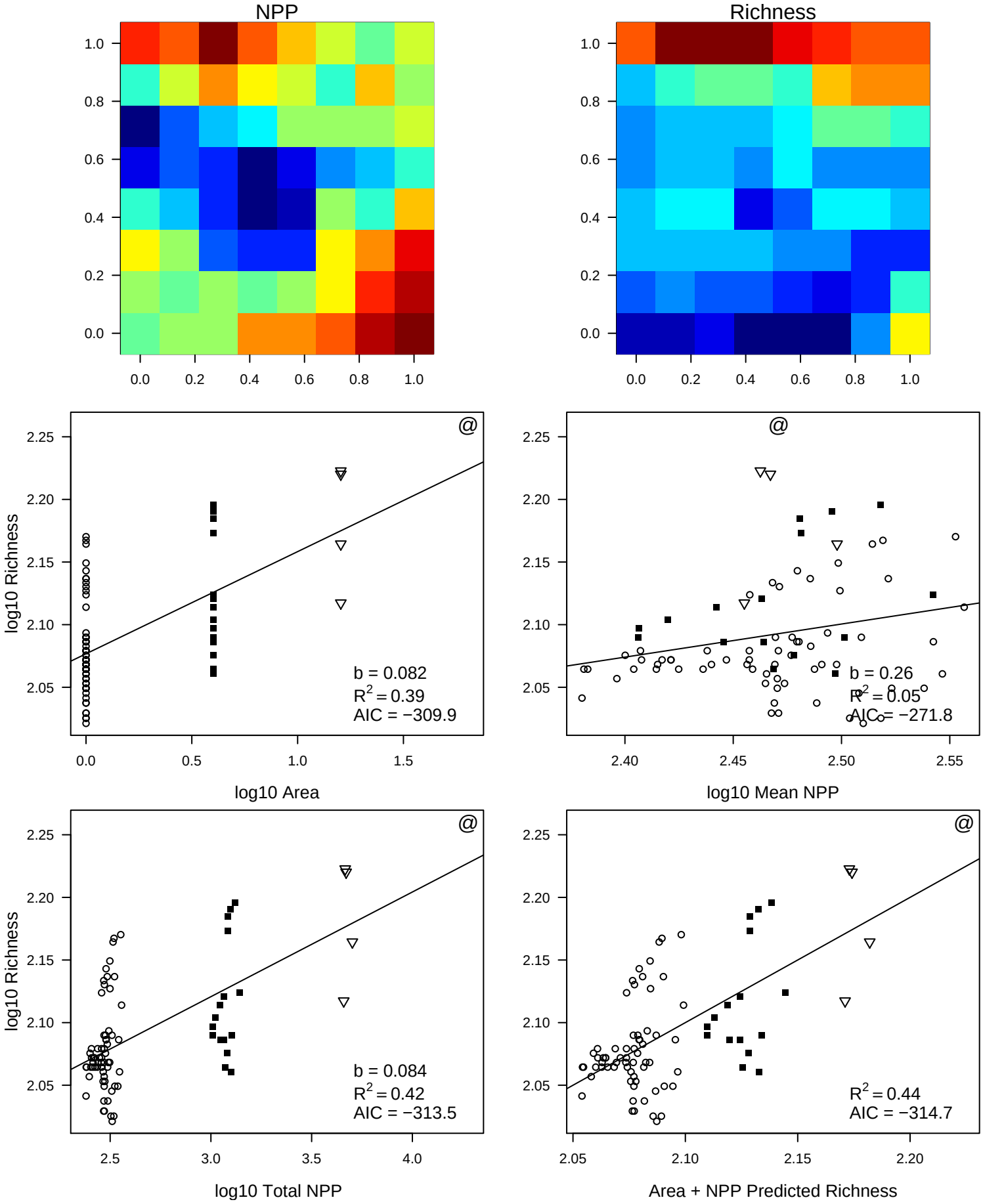
ID 10013


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.3
AIC = −194.9
log10 Mean NPP
b = −0.22
R2 = 0.13
AIC = −175.5
log10 Total NPP
b = 0.085
R2 = 0.15
AIC = −177.7
Area + NPP Predicted Richness
R2 = 0.44
AIC = −211.7

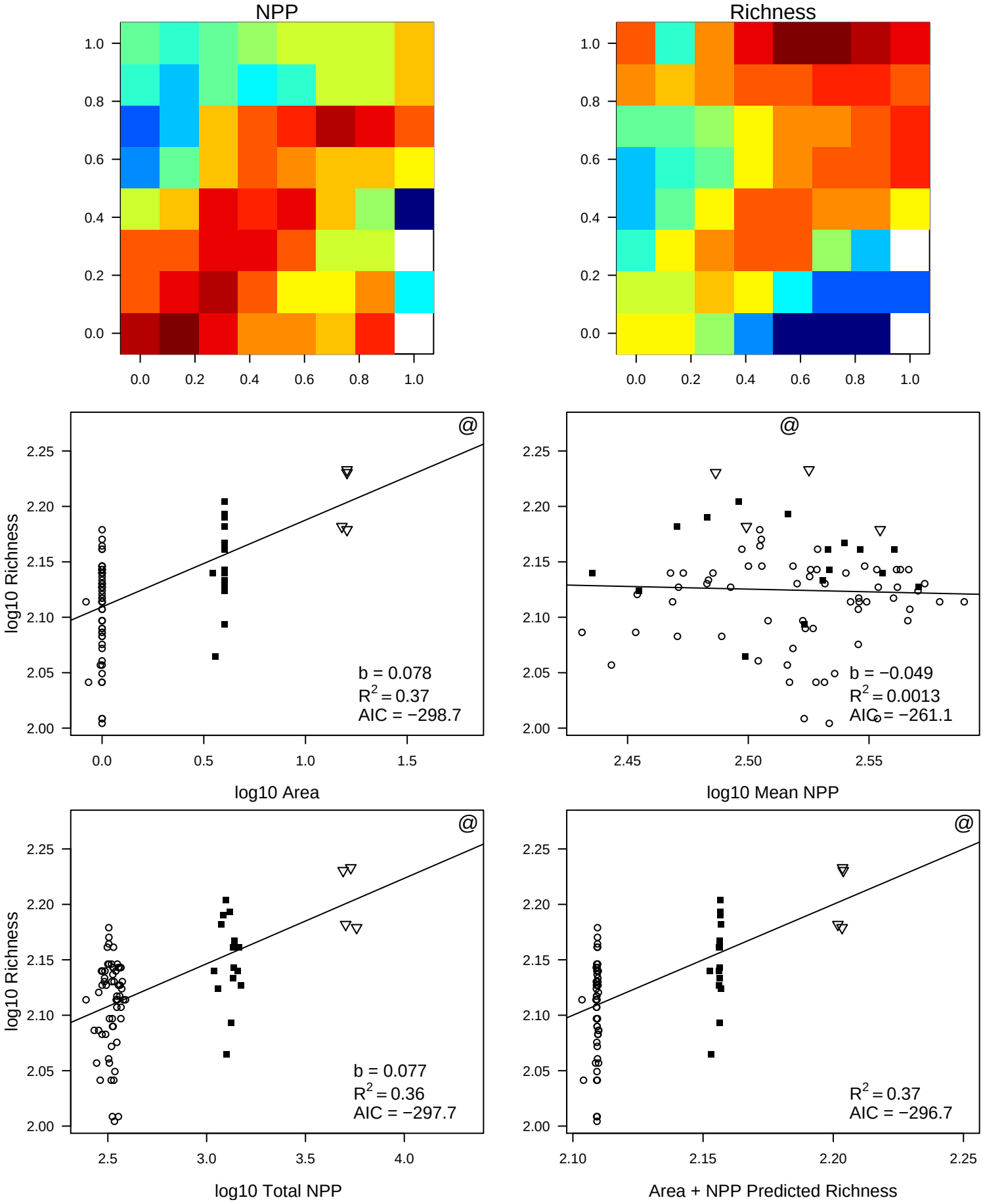
ID 11013


NPP
Richness
log10 Richness
log10 Area
b = 0.1
R2 = 0.58
AIC = −341.4
log10 Mean NPP
b = 0.32
R2 = 0.094
AIC = −275.1
log10 Total NPP
b = 0.1
R2 = 0.63
AIC = −351.9
Area + NPP Predicted Richness
R2 = 0.67
AIC = −359.8

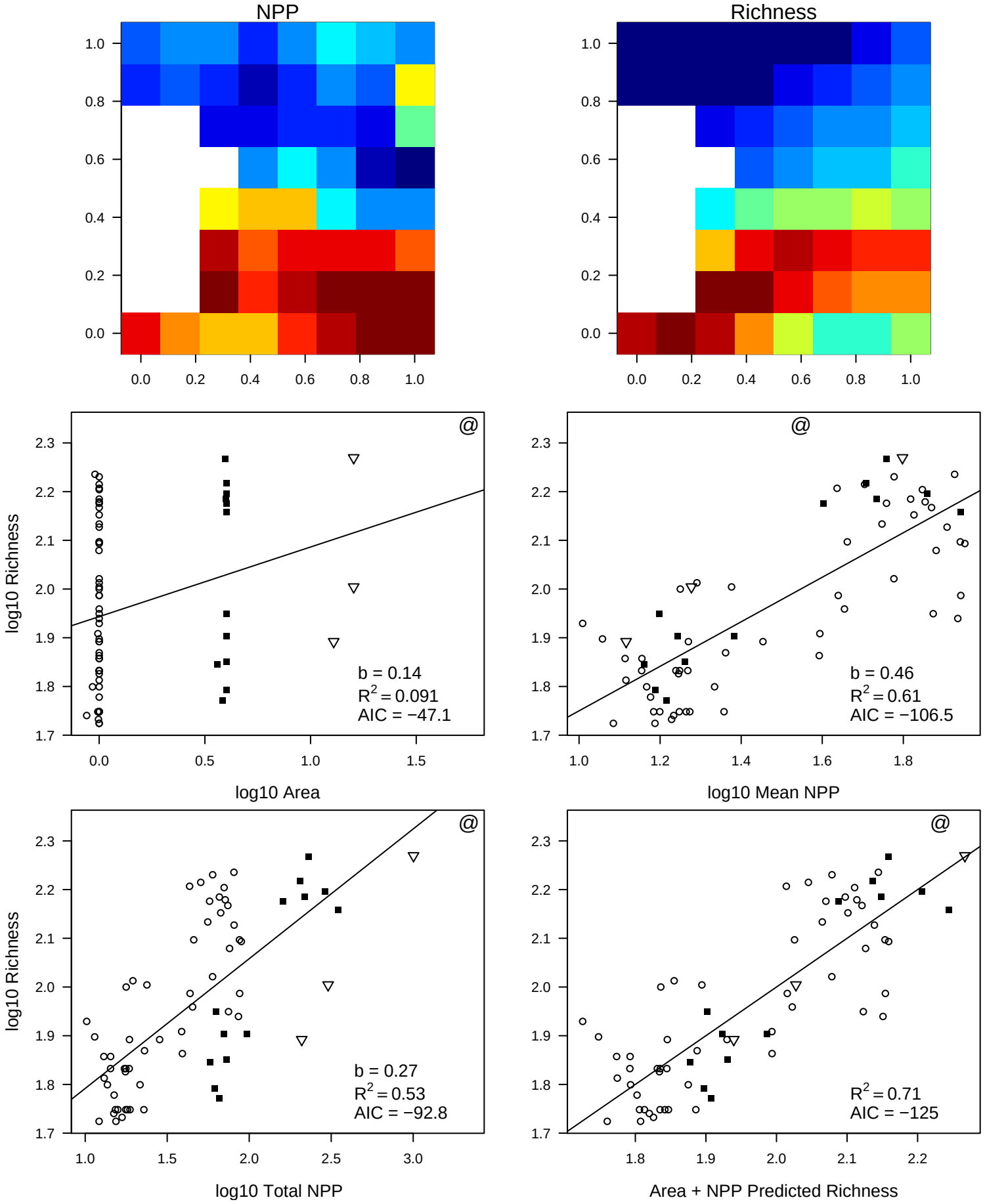
ID 12013


NPP
Richness
log10 Richness
log10 Area
b = 0.082
R2 = 0.39
AIC = −309.9
log10 Mean NPP
b = 0.26
R2 = 0.05
AIC = −271.8
log10 Total NPP
b = 0.084
R2 = 0.42
AIC = −313.5
Area + NPP Predicted Richness
R2 = 0.44
AIC = −314.7

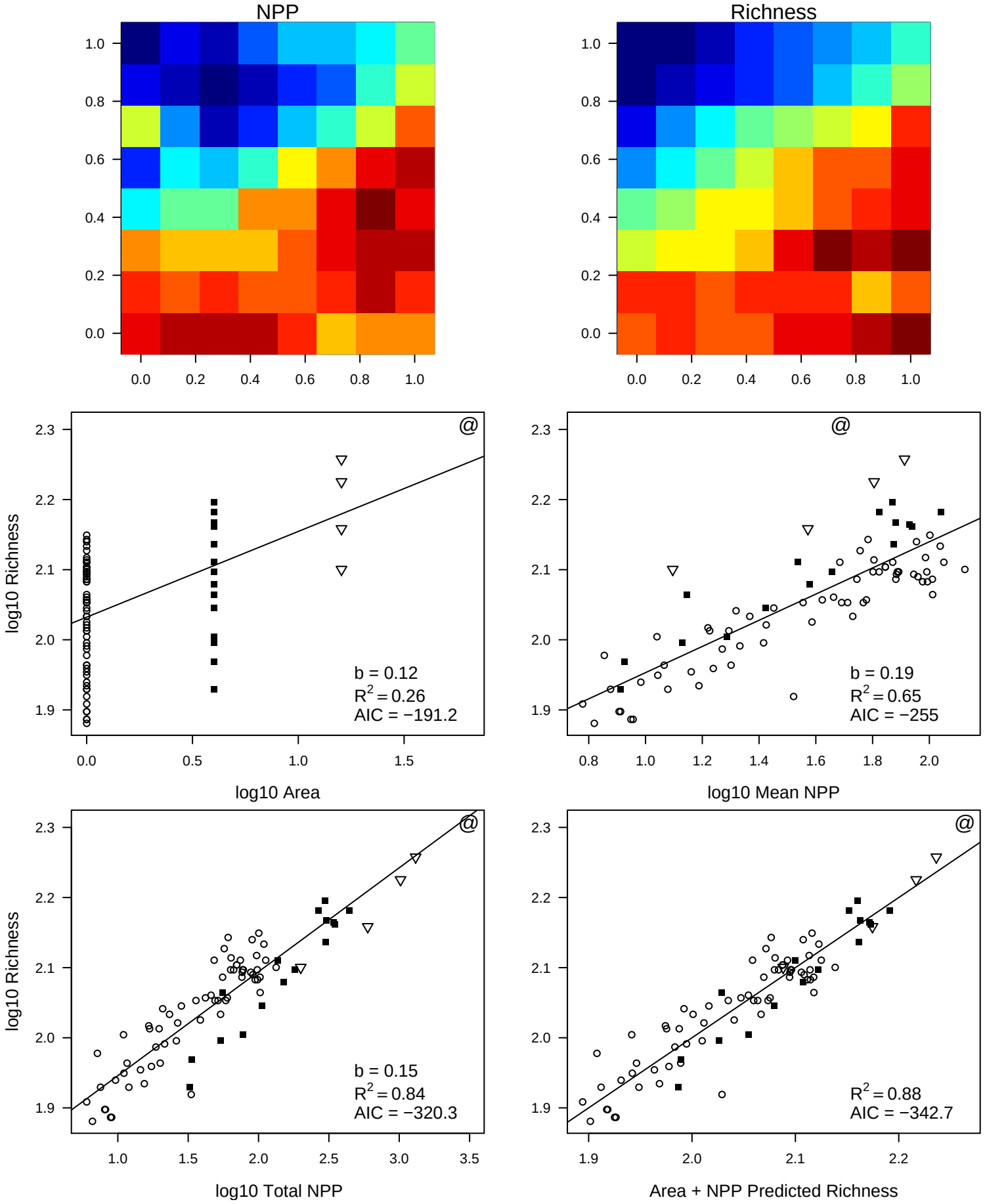
ID 13013


NPP
Richness
log10 Richness
log10 Area
b = 0.078
R2 = 0.37
AIC = −298.7
log10 Mean NPP
b = −0.049
R2 = 0.0013
AIC = −261.1
log10 Total NPP
b = 0.077
R2 = 0.36
AIC = −297.7
Area + NPP Predicted Richness
R2 = 0.37
AIC = −296.7

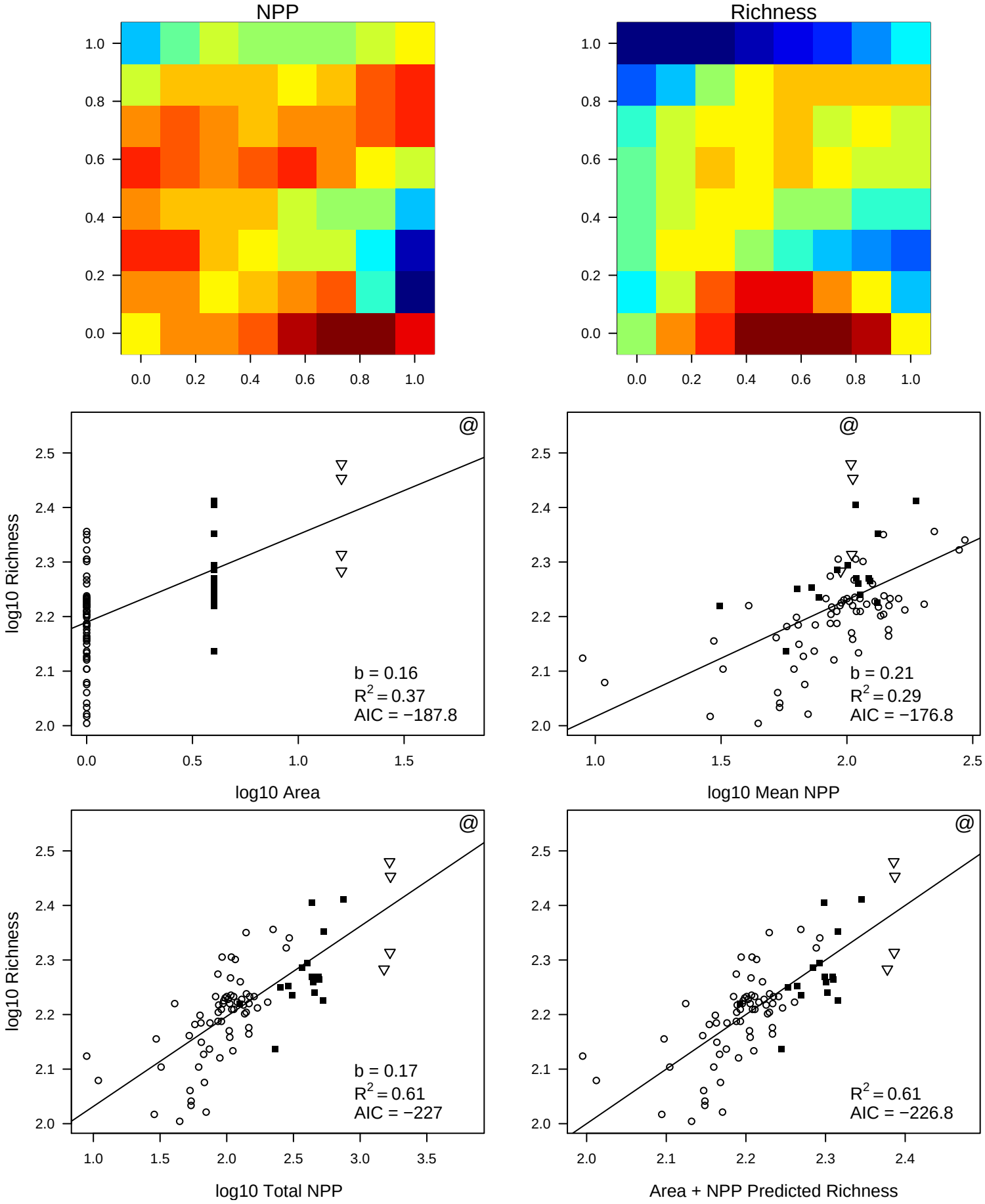
ID 30013


NPP
Richness
log10 Richness
log10 Area
b = 0.14
$R^2 = 0.091$
AIC = −47.1
log10 Mean NPP
b = 0.46
$R^2 = 0.61$
AIC = −106.5
log10 Total NPP
b = 0.27
$R^2 = 0.53$
AIC = −92.8
Area + NPP Predicted Richness
$R^2 = 0.71$
AIC = −125

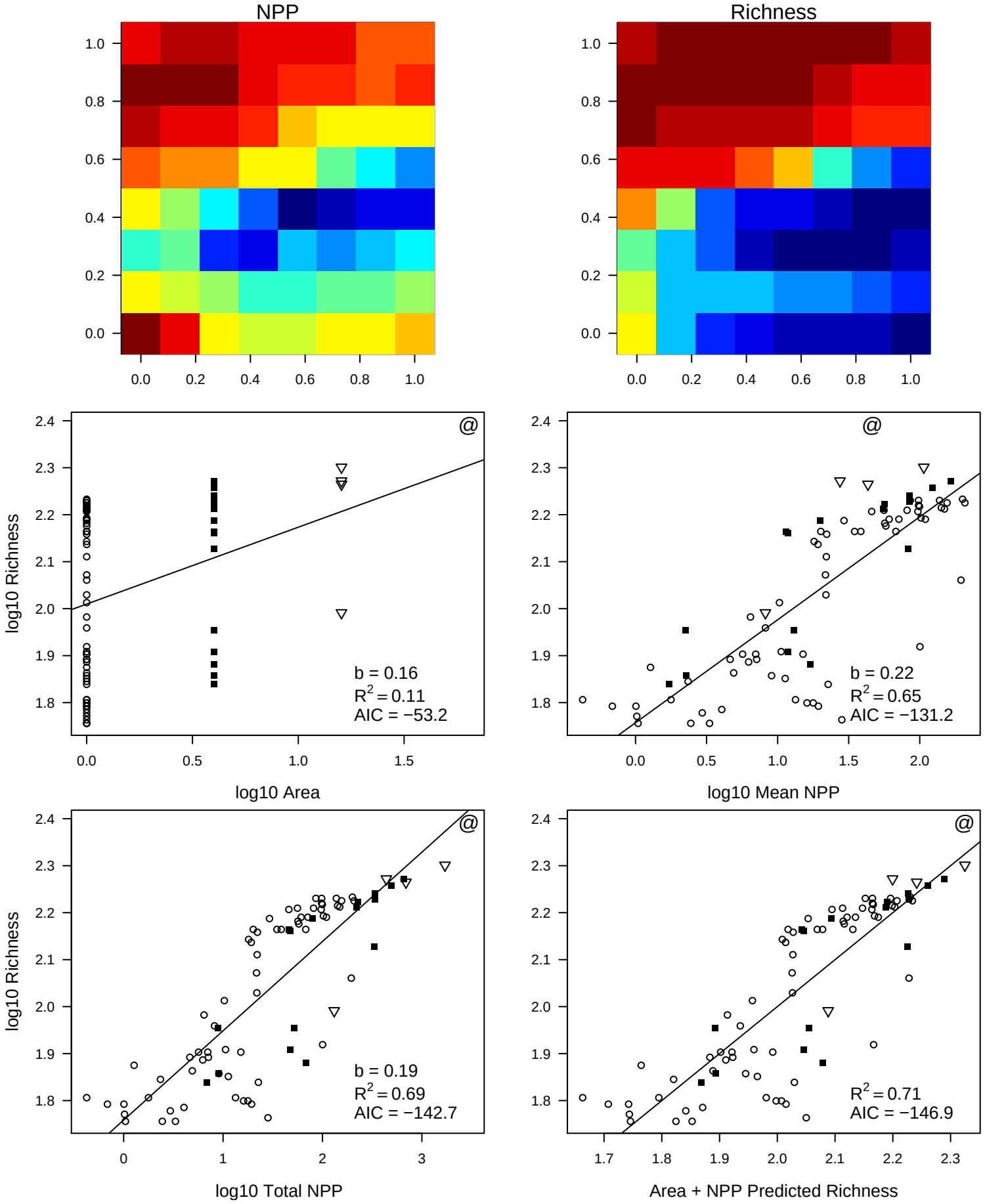
ID 31013


NPP
Richness
log10 Richness
log10 Area
b = 0.12
R2 = 0.26
AIC = −191.2
log10 Mean NPP
b = 0.19
R2 = 0.65
AIC = −255
log10 Total NPP
b = 0.15
R2 = 0.84
AIC = −320.3
Area + NPP Predicted Richness
R2 = 0.88
AIC = −342.7

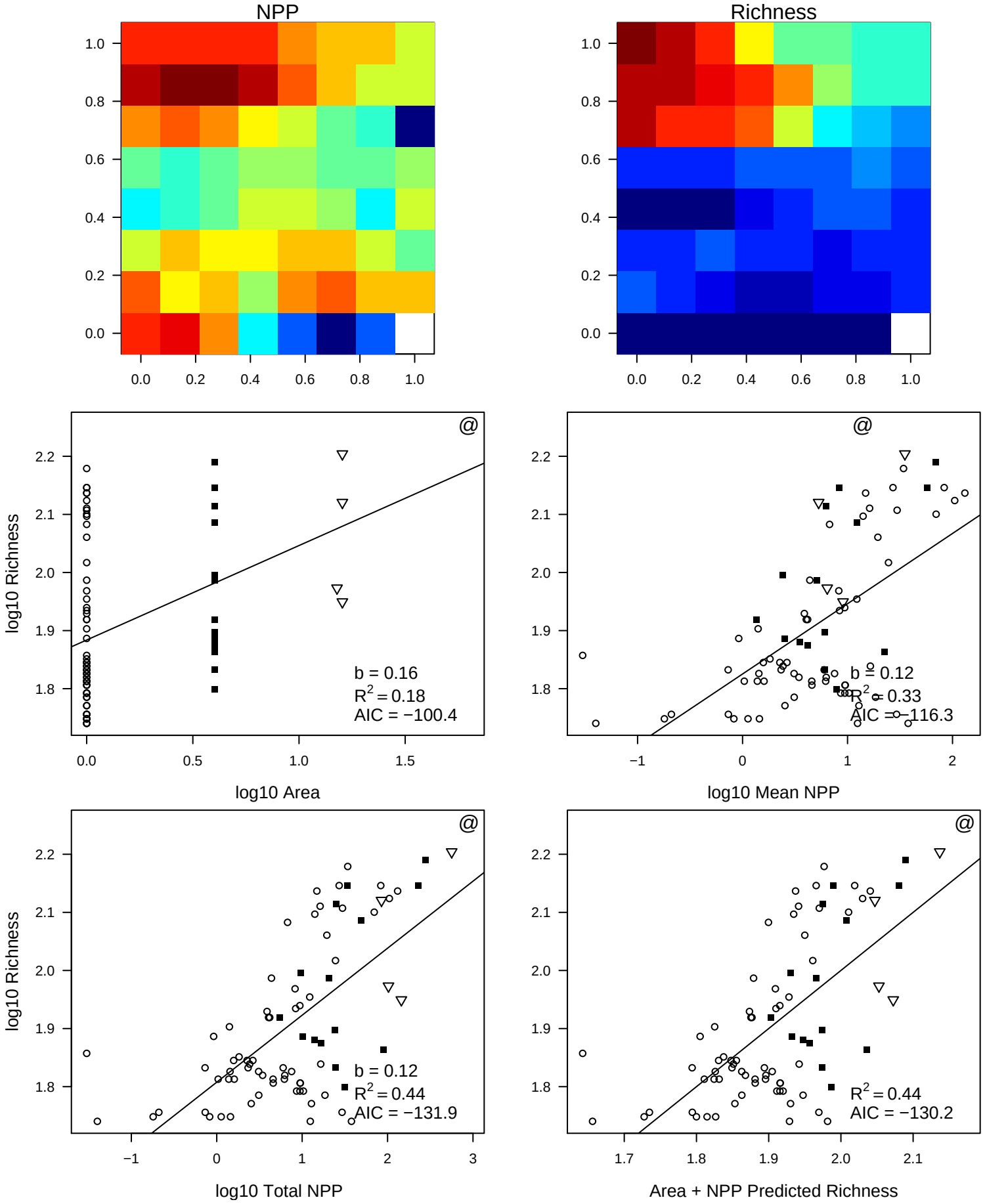
ID 32013


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.37
AIC = −187.8
log10 Mean NPP
b = 0.21
R2 = 0.29
AIC = −176.8
log10 Total NPP
b = 0.17
R2 = 0.61
AIC = −227
Area + NPP Predicted Richness
R2 = 0.61
AIC = −226.8

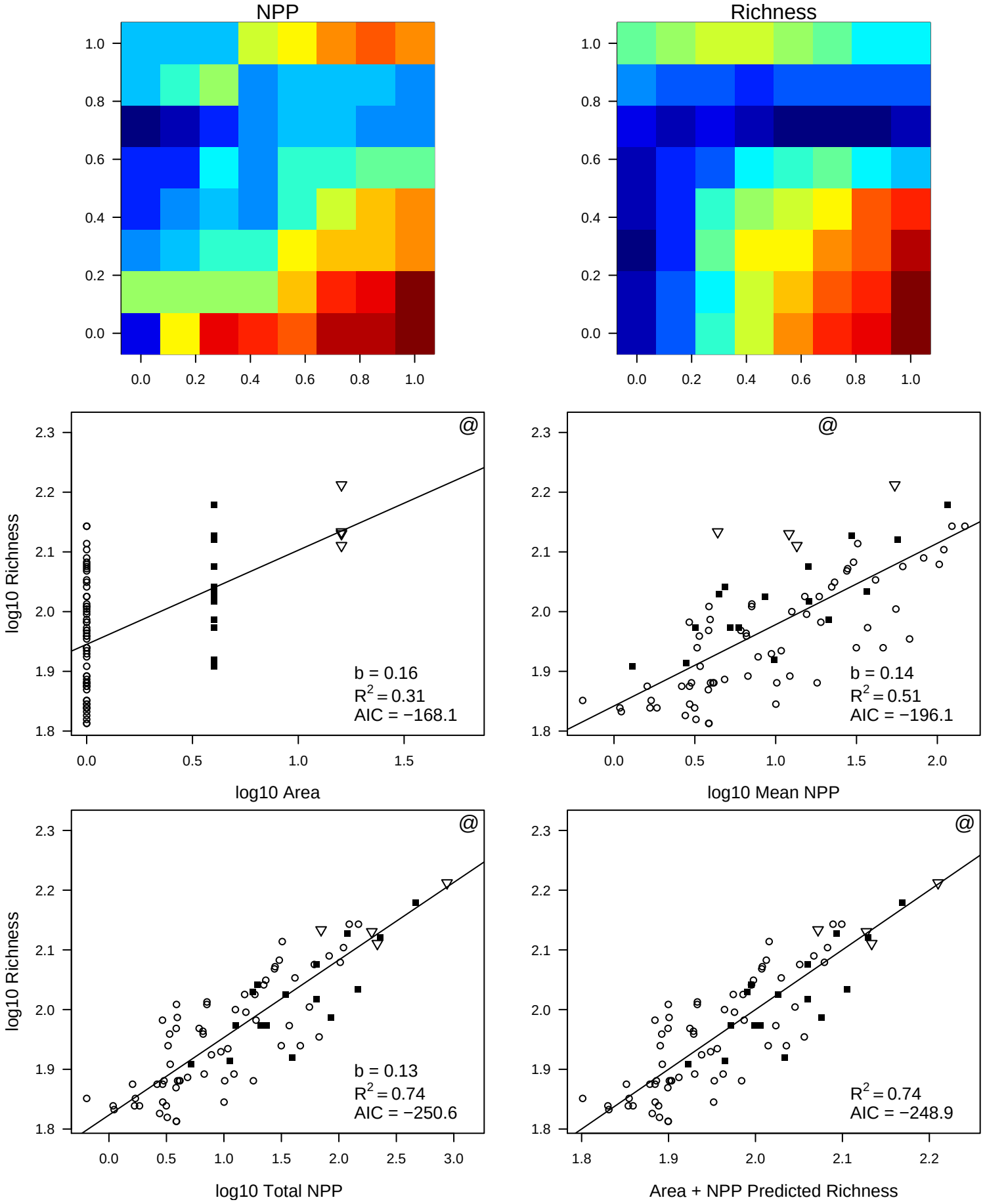
ID 33013


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.11
AIC = −53.2
log10 Mean NPP
b = 0.22
R2 = 0.65
AIC = −131.2
log10 Total NPP
b = 0.19
R2 = 0.69
AIC = −142.7
Area + NPP Predicted Richness
R2 = 0.71
AIC = −146.9

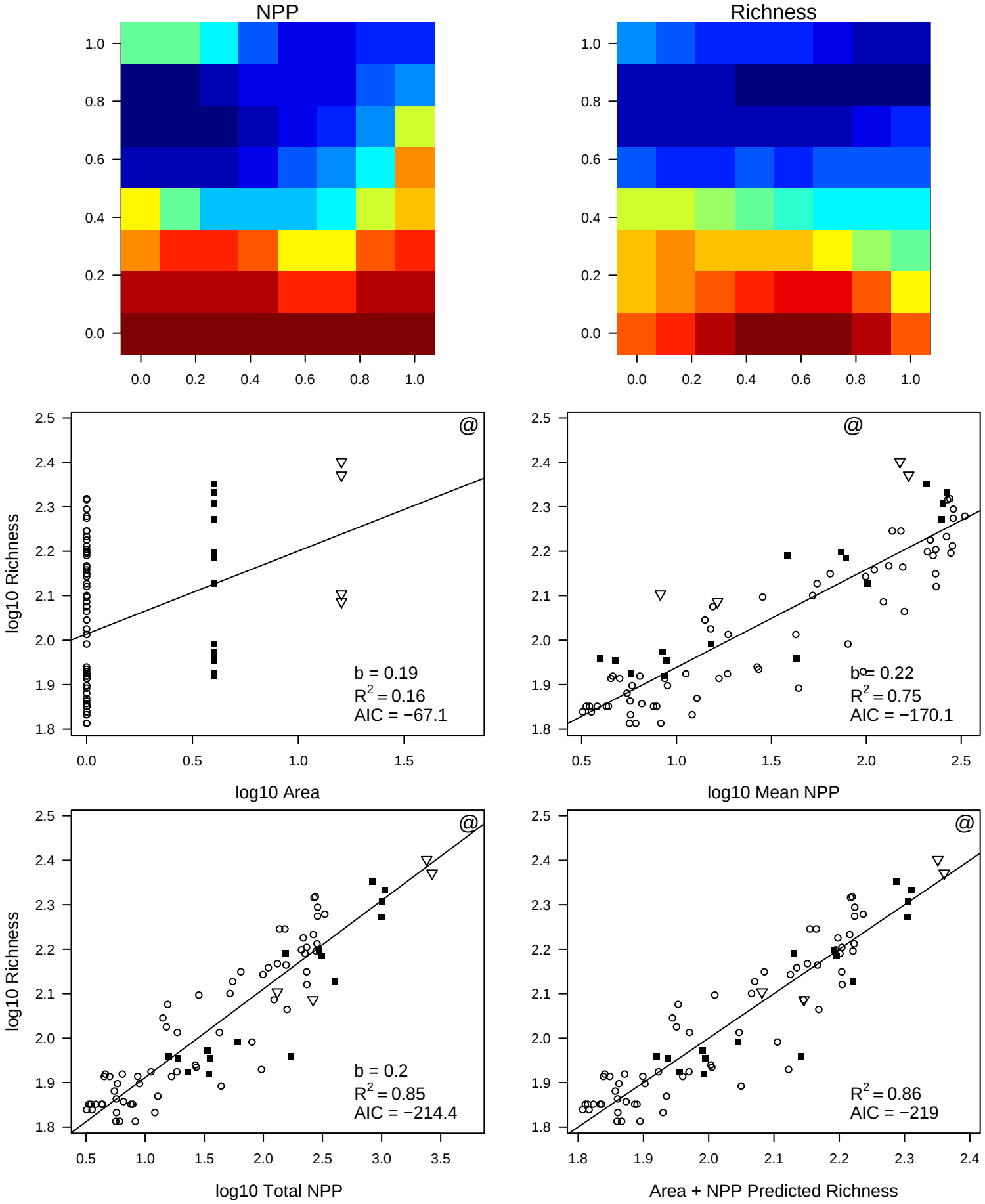
ID 34013


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.18
AIC = −100.4
log10 Mean NPP
b = 0.12
R2 = 0.33
AIC = −116.3
log10 Total NPP
b = 0.12
R2 = 0.44
AIC = −131.9
Area + NPP Predicted Richness
R2 = 0.44
AIC = −130.2

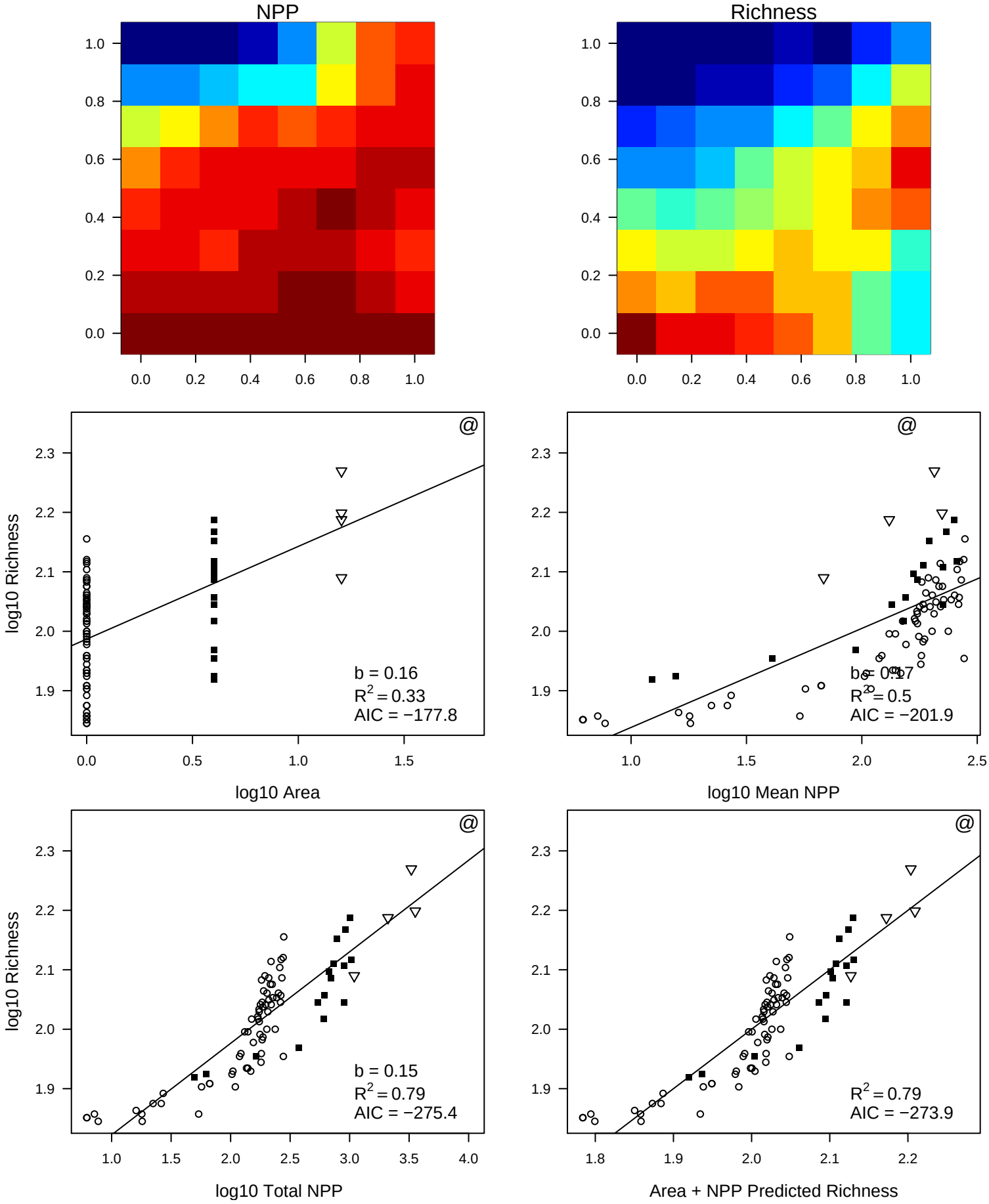
ID 35013


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.31
AIC = −168.1
log10 Mean NPP
b = 0.14
R2 = 0.51
AIC = −196.1
log10 Total NPP
b = 0.13
R2 = 0.74
AIC = −250.6
Area + NPP Predicted Richness
R2 = 0.74
AIC = −248.9

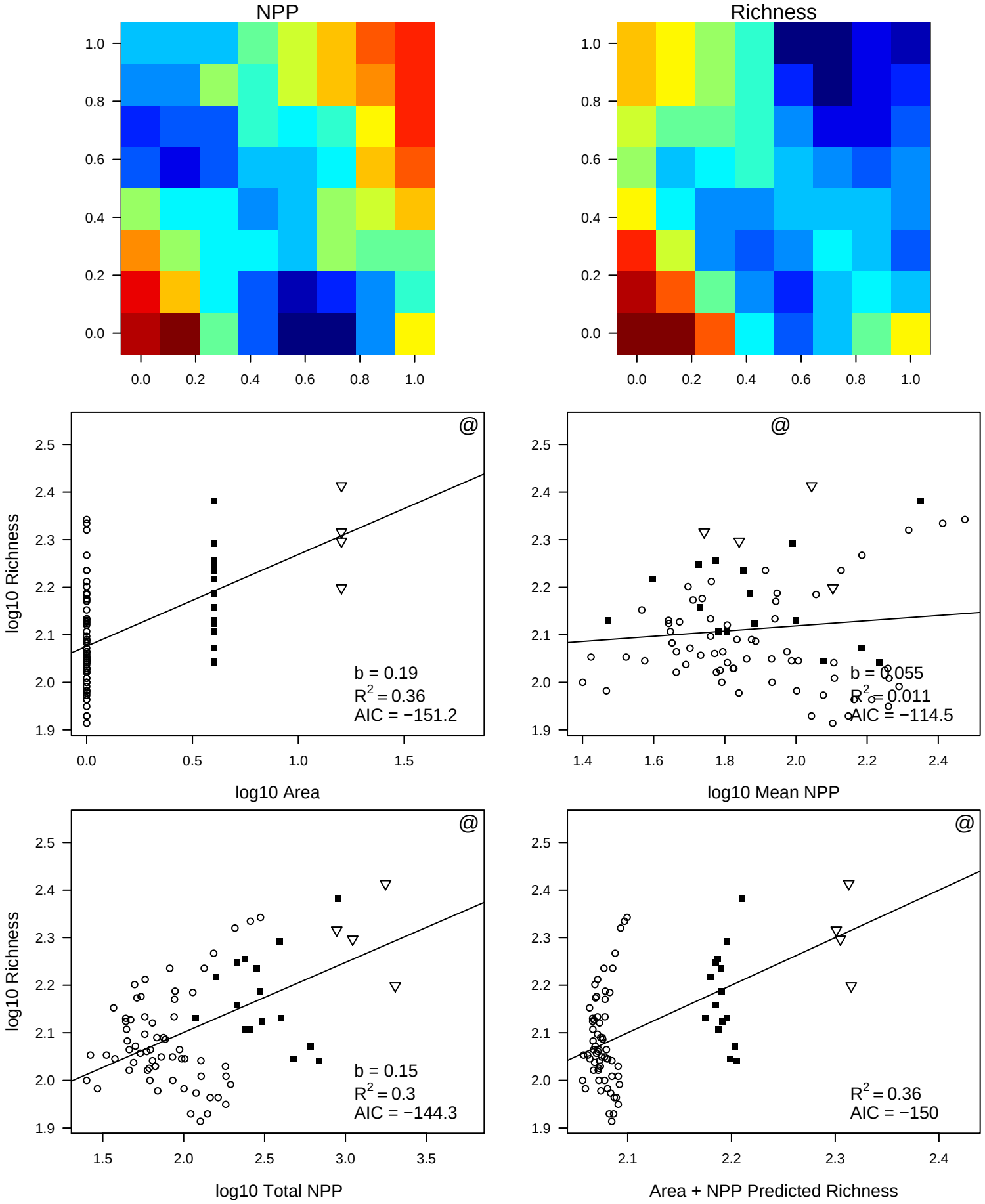
ID 36013


NPP
Richness
log10 Richness
log10 Area
b = 0.19
R2 = 0.16
AIC = −67.1
log10 Mean NPP
b = 0.22
R2 = 0.75
AIC = −170.1
log10 Total NPP
b = 0.2
R2 = 0.85
AIC = −214.4
Area + NPP Predicted Richness
R2 = 0.86
AIC = −219

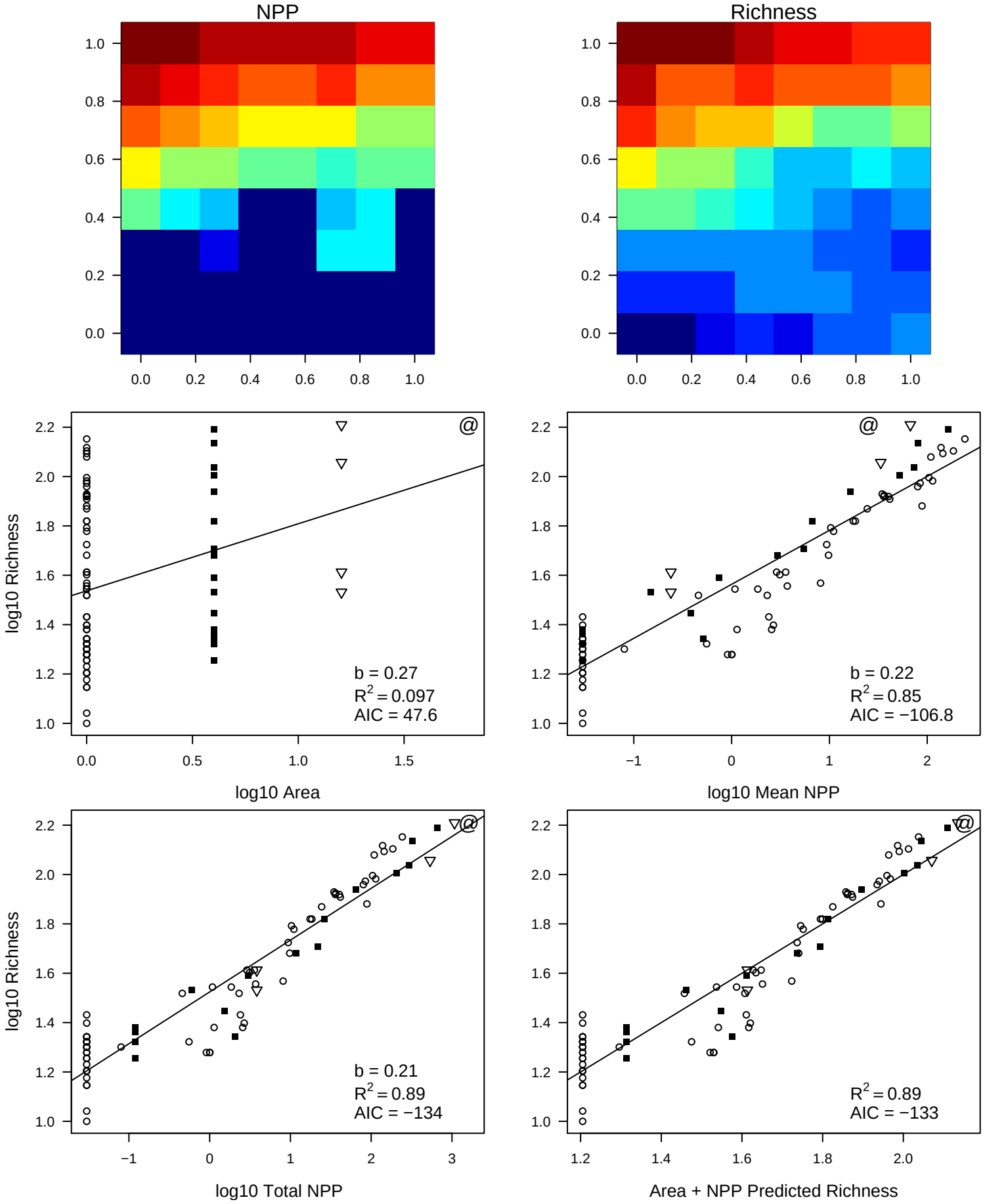
ID 37013


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.33
AIC = −177.8
log10 Mean NPP
b = 0.17
R2 = 0.5
AIC = −201.9
log10 Total NPP
b = 0.15
R2 = 0.79
AIC = −275.4
Area + NPP Predicted Richness
R2 = 0.79
AIC = −273.9

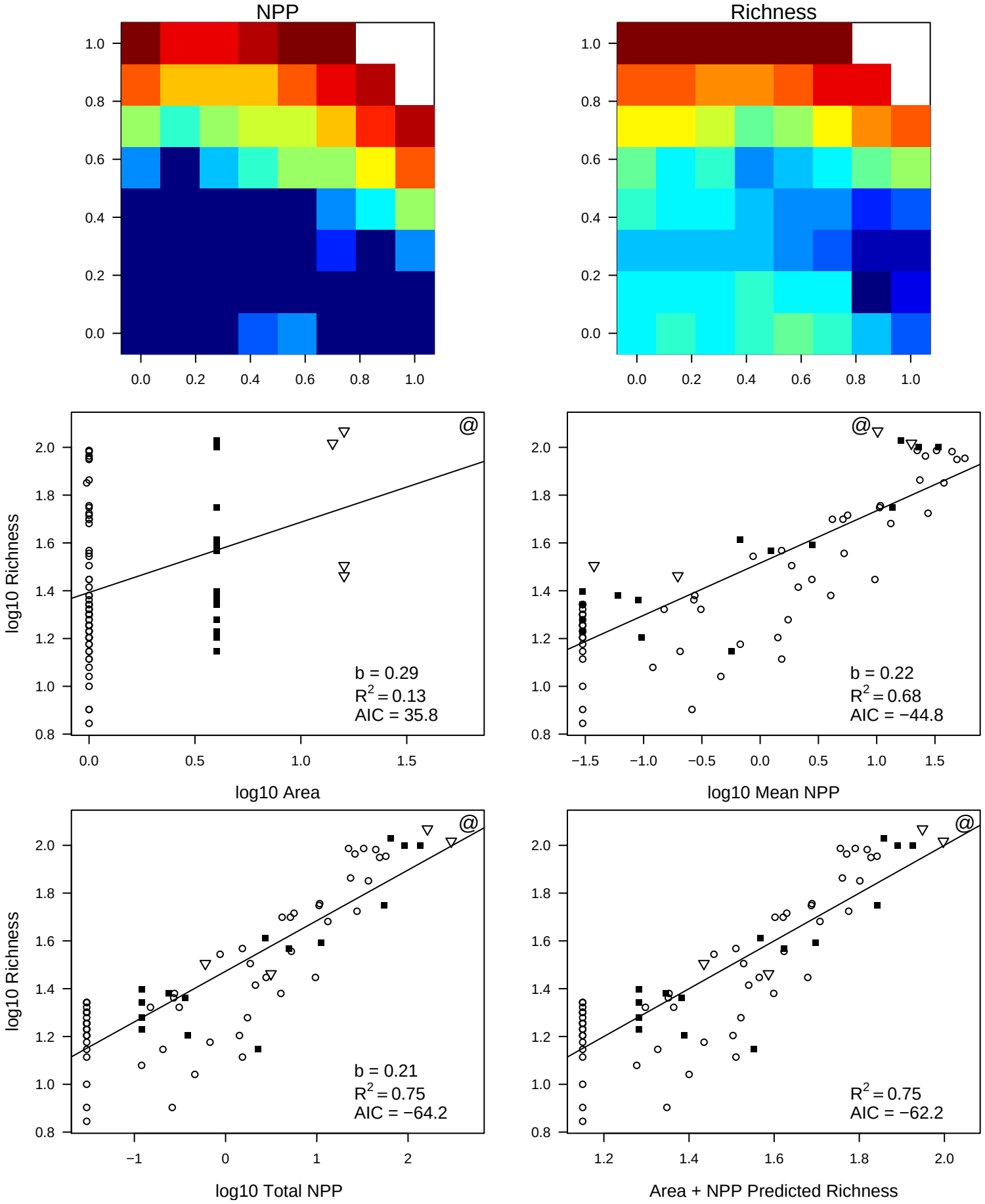
ID 10012


NPP
Richness
log10 Richness
log10 Area
b = 0.19
R2 = 0.36
AIC = −151.2
log10 Mean NPP
b = 0.055
R2 = 0.011
AIC = −114.5
log10 Total NPP
b = 0.15
R2 = 0.3
AIC = −144.3
Area + NPP Predicted Richness
R2 = 0.36
AIC = −150

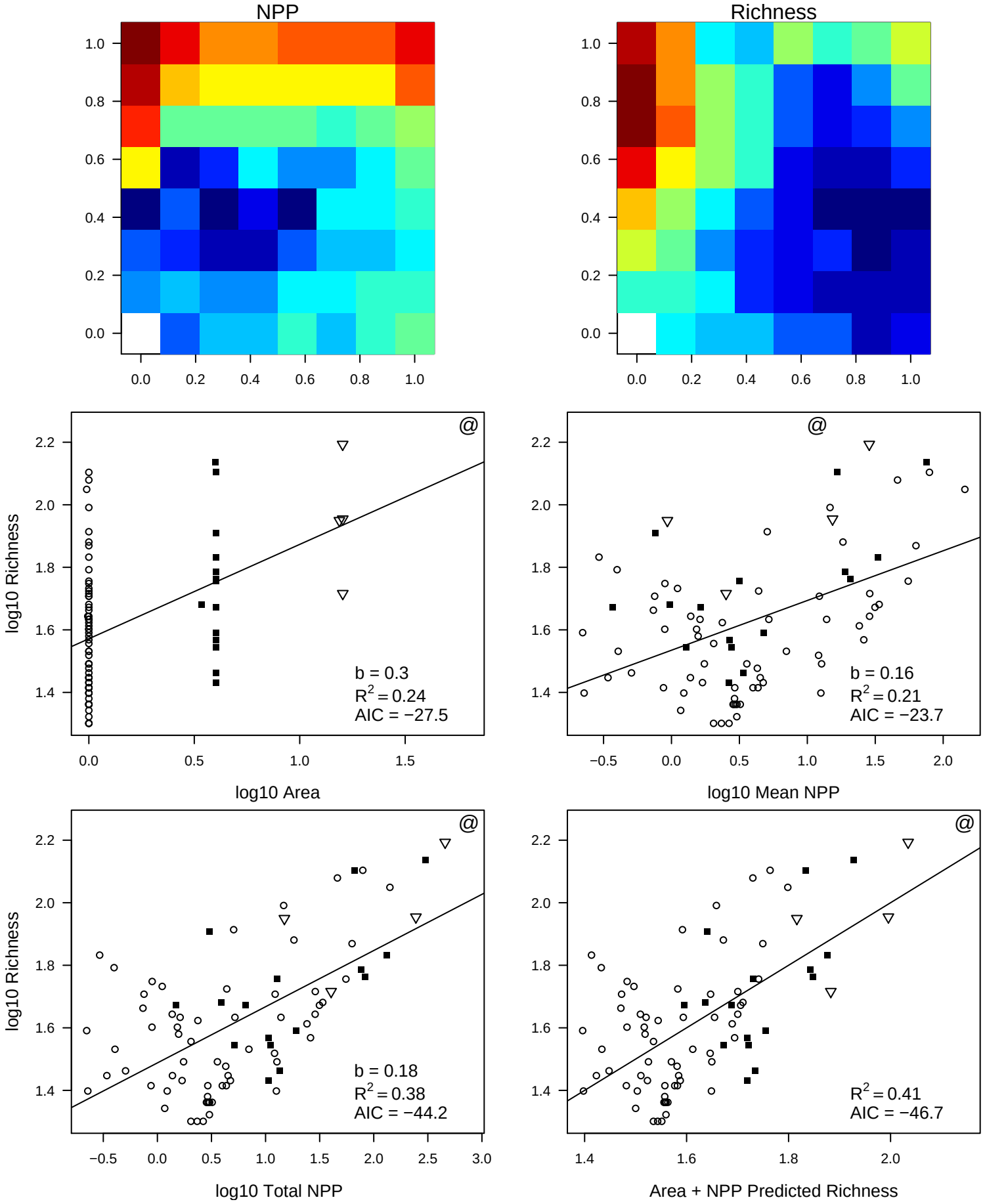
ID 23012


NPP
Richness
log10 Richness
log10 Area
b = 0.27
R2 = 0.097
AIC = 47.6
log10 Mean NPP
b = 0.22
R2 = 0.85
AIC = −106.8
log10 Total NPP
b = 0.21
R2 = 0.89
AIC = −134
Area + NPP Predicted Richness
R2 = 0.89
AIC = −133

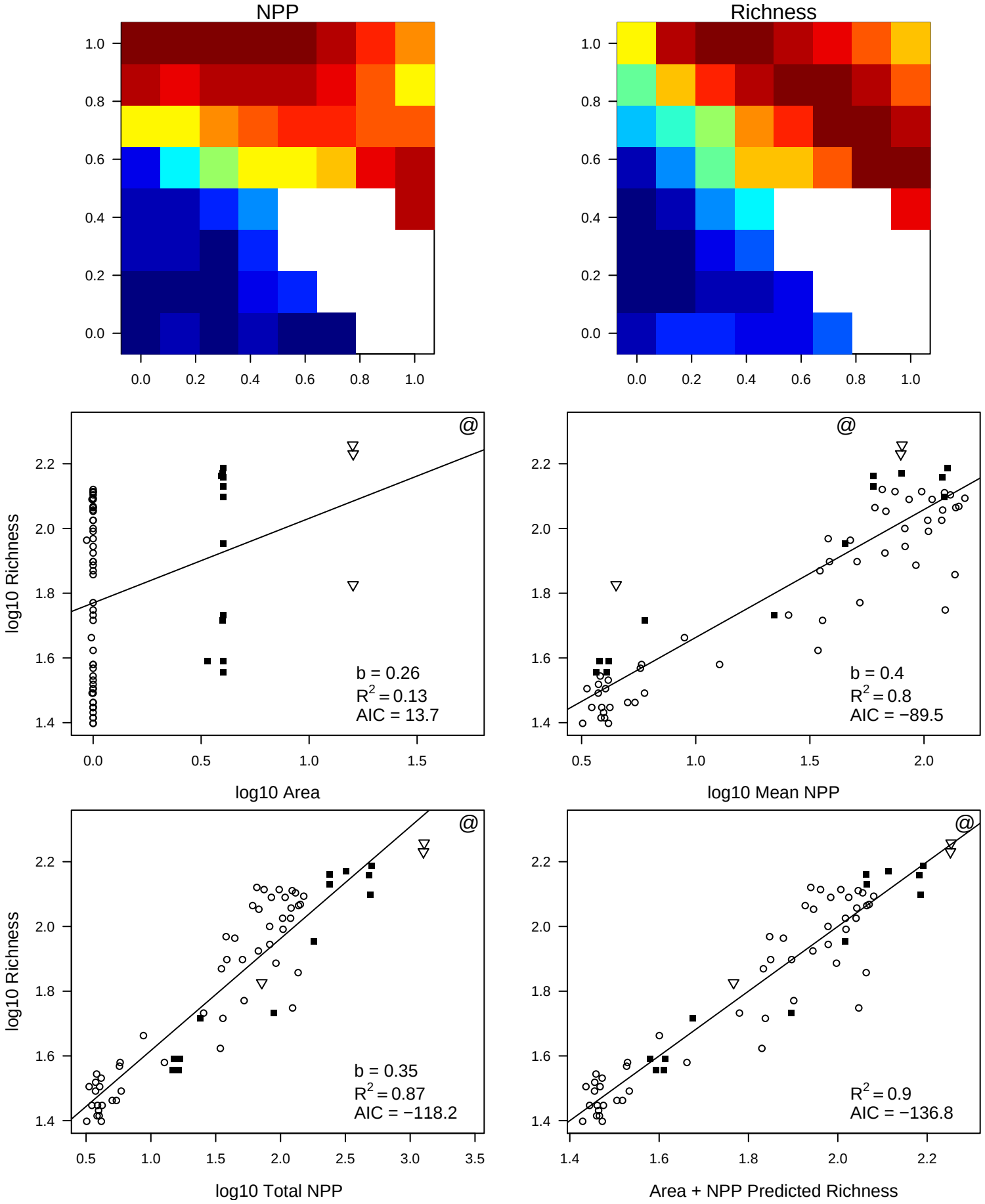
ID 24012


NPP
Richness
log10 Richness
log10 Area
b = 0.29
R2 = 0.13
AIC = 35.8
log10 Mean NPP
b = 0.22
R2 = 0.68
AIC = −44.8
log10 Total NPP
b = 0.21
R2 = 0.75
AIC = −64.2
Area + NPP Predicted Richness
R2 = 0.75
AIC = −62.2

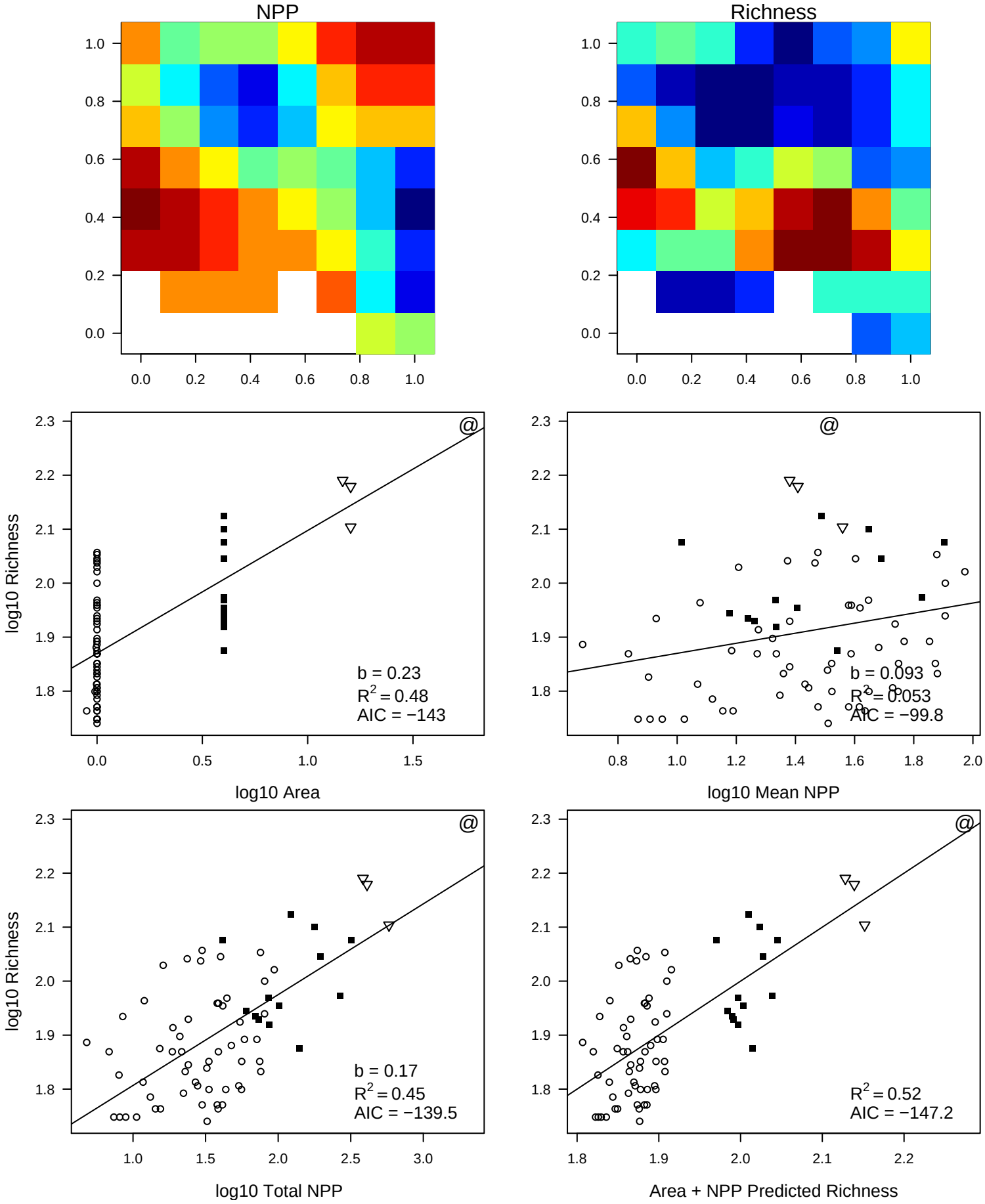
ID 28012


NPP
Richness
log10 Richness
log10 Area
b = 0.3
R2 = 0.24
AIC = −27.5
log10 Mean NPP
b = 0.16
R2 = 0.21
AIC = −23.7
log10 Total NPP
b = 0.18
R2 = 0.38
AIC = −44.2
Area + NPP Predicted Richness
R2 = 0.41
AIC = −46.7

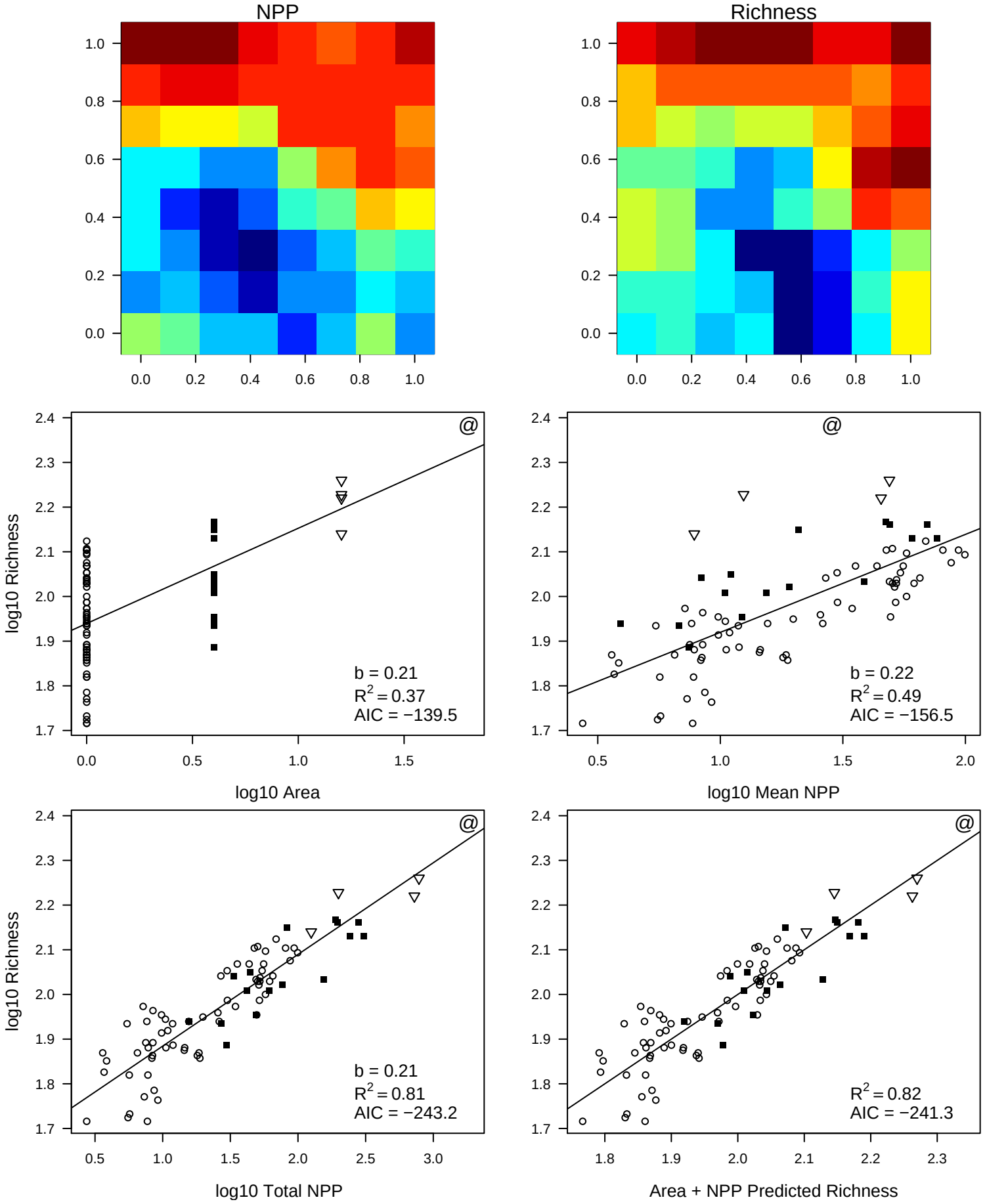
ID 29012


NPP
Richness
log10 Richness
log10 Area
b = 0.26
R2 = 0.13
AIC = 13.7
log10 Mean NPP
b = 0.4
R2 = 0.8
AIC = −89.5
log10 Total NPP
b = 0.35
R2 = 0.87
AIC = −118.2
Area + NPP Predicted Richness
R2 = 0.9
AIC = −136.8

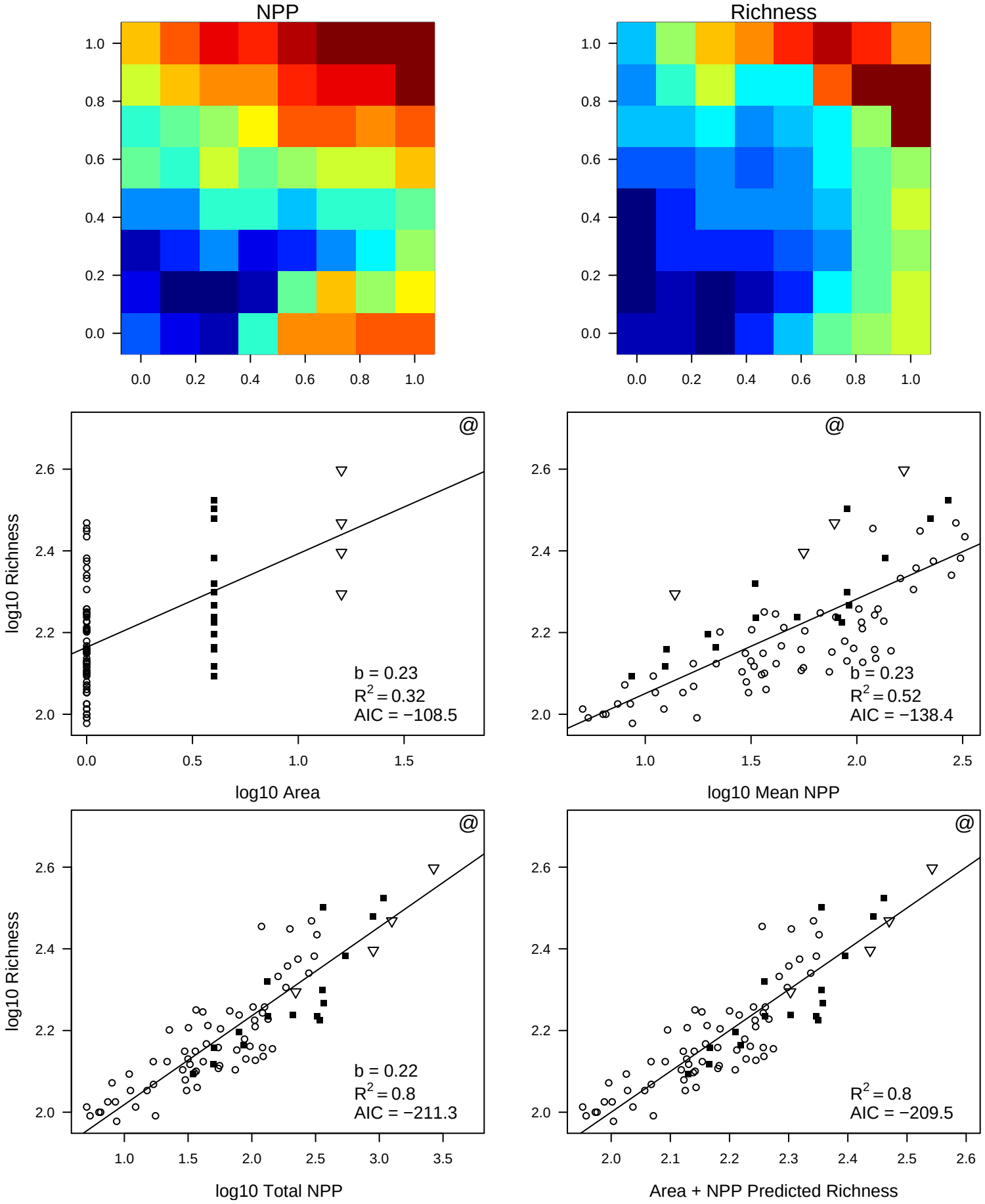
ID 30012


NPP
Richness
log10 Richness
log10 Area
b = 0.23
R2 = 0.48
AIC = −143
log10 Mean NPP
b = 0.093
R2 = 0.053
AIC = −99.8
log10 Total NPP
b = 0.17
R2 = 0.45
AIC = −139.5
Area + NPP Predicted Richness
R2 = 0.52
AIC = −147.2

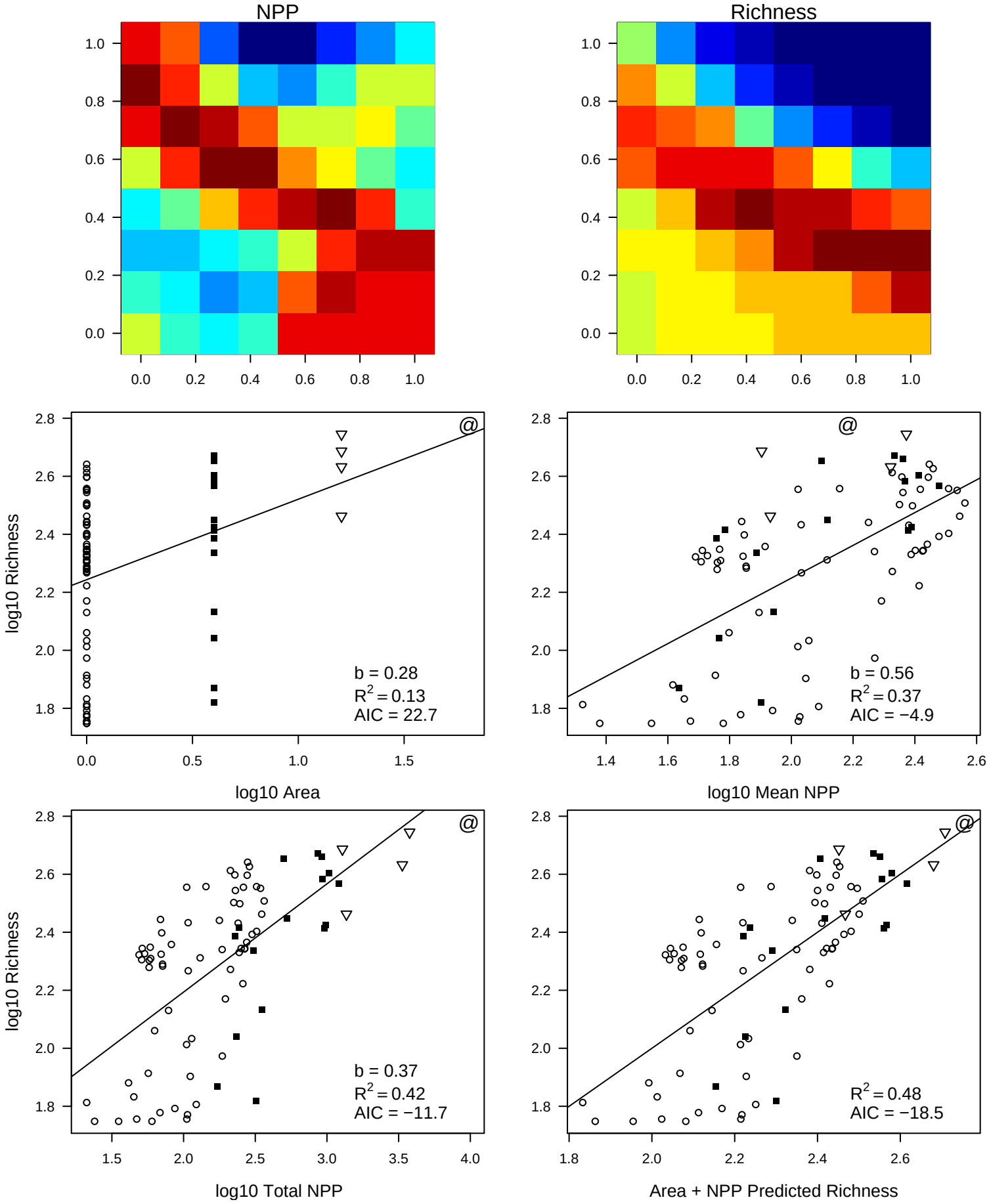
ID 31012


NPP
Richness
log10 Richness
log10 Area
b = 0.21
R2 = 0.37
AIC = −139.5
log10 Mean NPP
b = 0.22
R2 = 0.49
AIC = −156.5
log10 Total NPP
b = 0.21
R2 = 0.81
AIC = −243.2
Area + NPP Predicted Richness
R2 = 0.82
AIC = −241.3

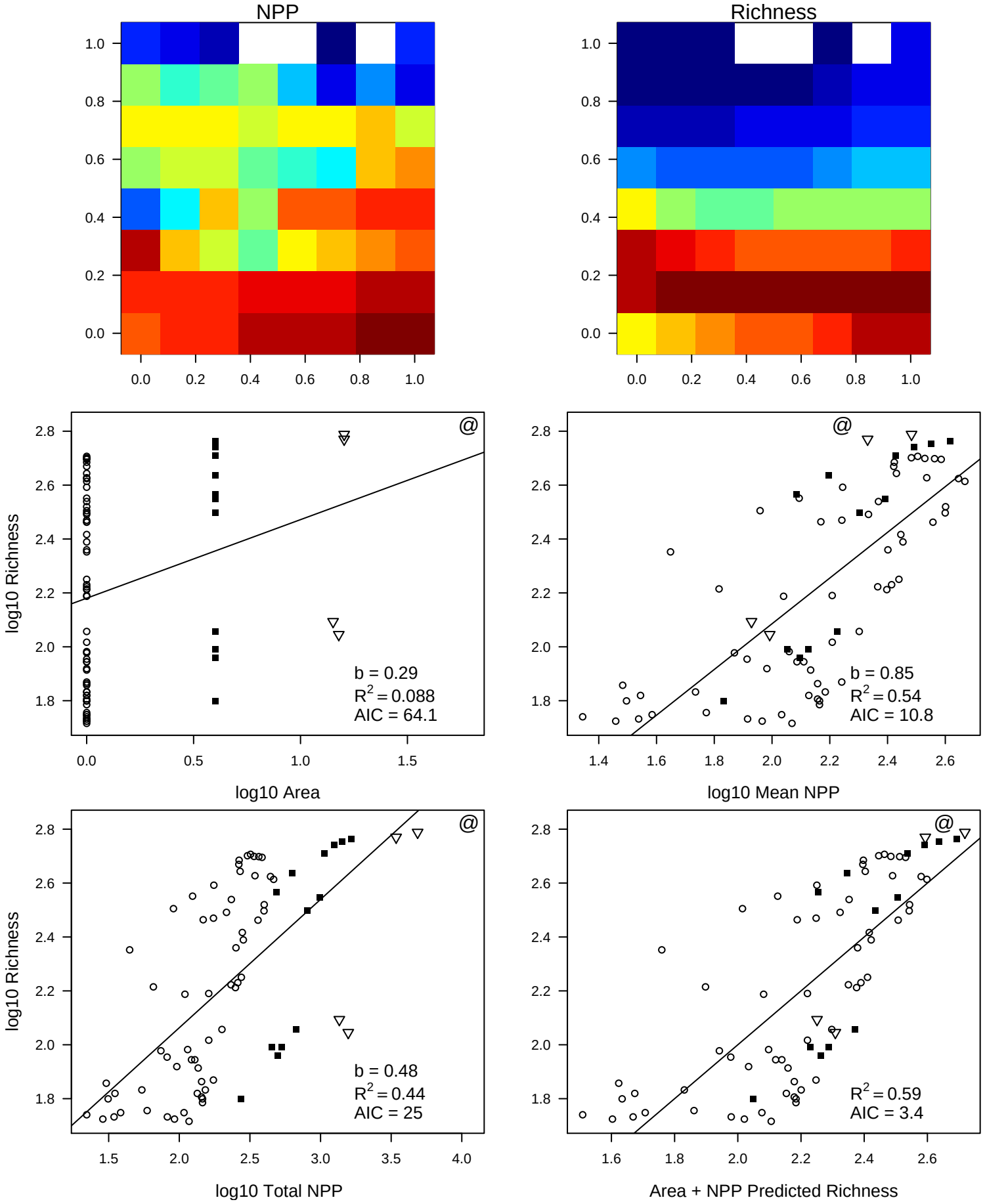
ID 32012


NPP
Richness
log10 Richness
log10 Area
b = 0.23
R2 = 0.32
AIC = −108.5
log10 Mean NPP
b = 0.23
R2 = 0.52
AIC = −138.4
log10 Total NPP
b = 0.22
R2 = 0.8
AIC = −211.3
Area + NPP Predicted Richness
R2 = 0.8
AIC = −209.5

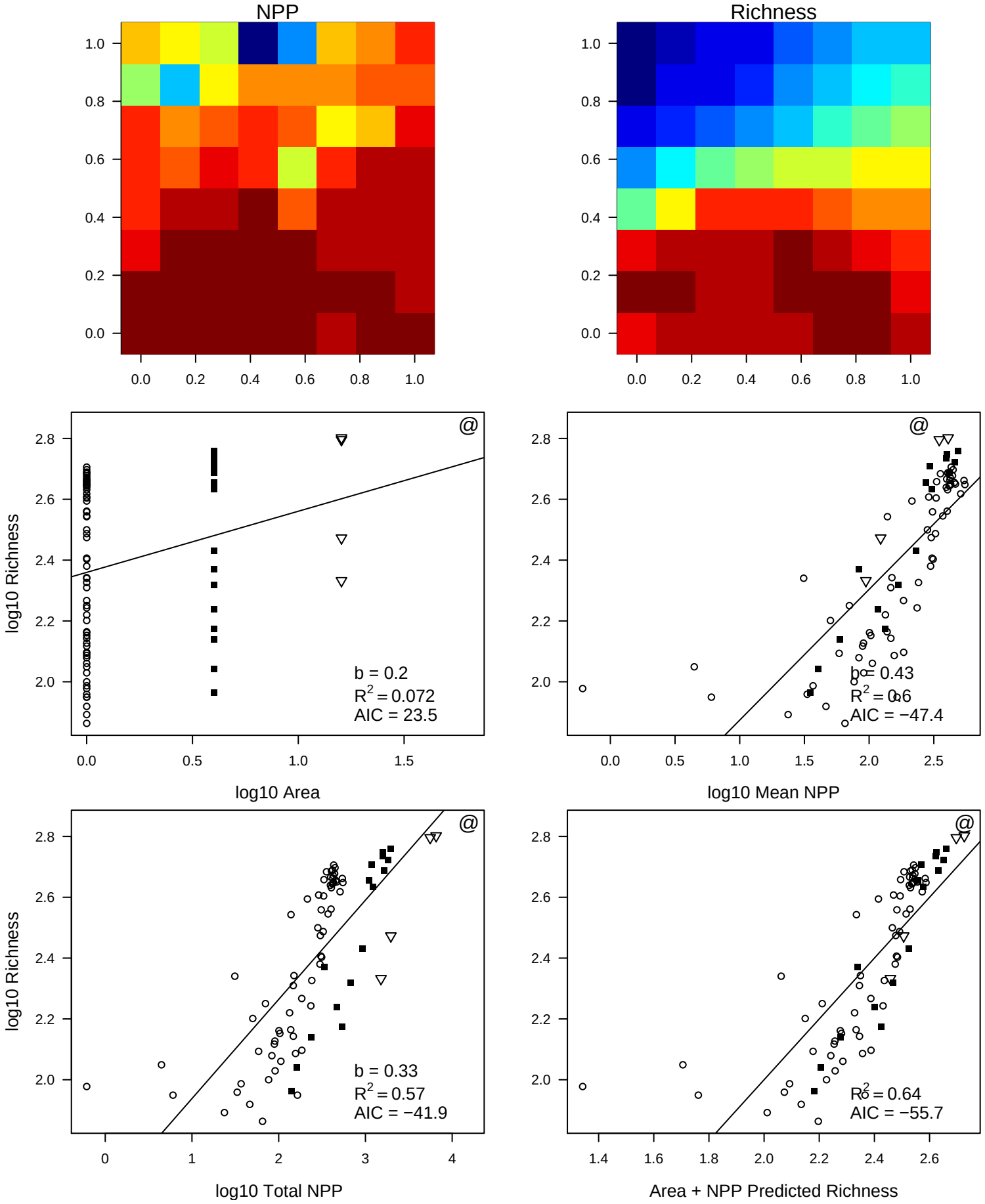
ID 33012


NPP
Richness
log10 Richness
log10 Area
b = 0.28
R2 = 0.13
AIC = 22.7
log10 Mean NPP
b = 0.56
R2 = 0.37
AIC = −4.9
log10 Total NPP
b = 0.37
R2 = 0.42
AIC = −11.7
Area + NPP Predicted Richness
R2 = 0.48
AIC = −18.5

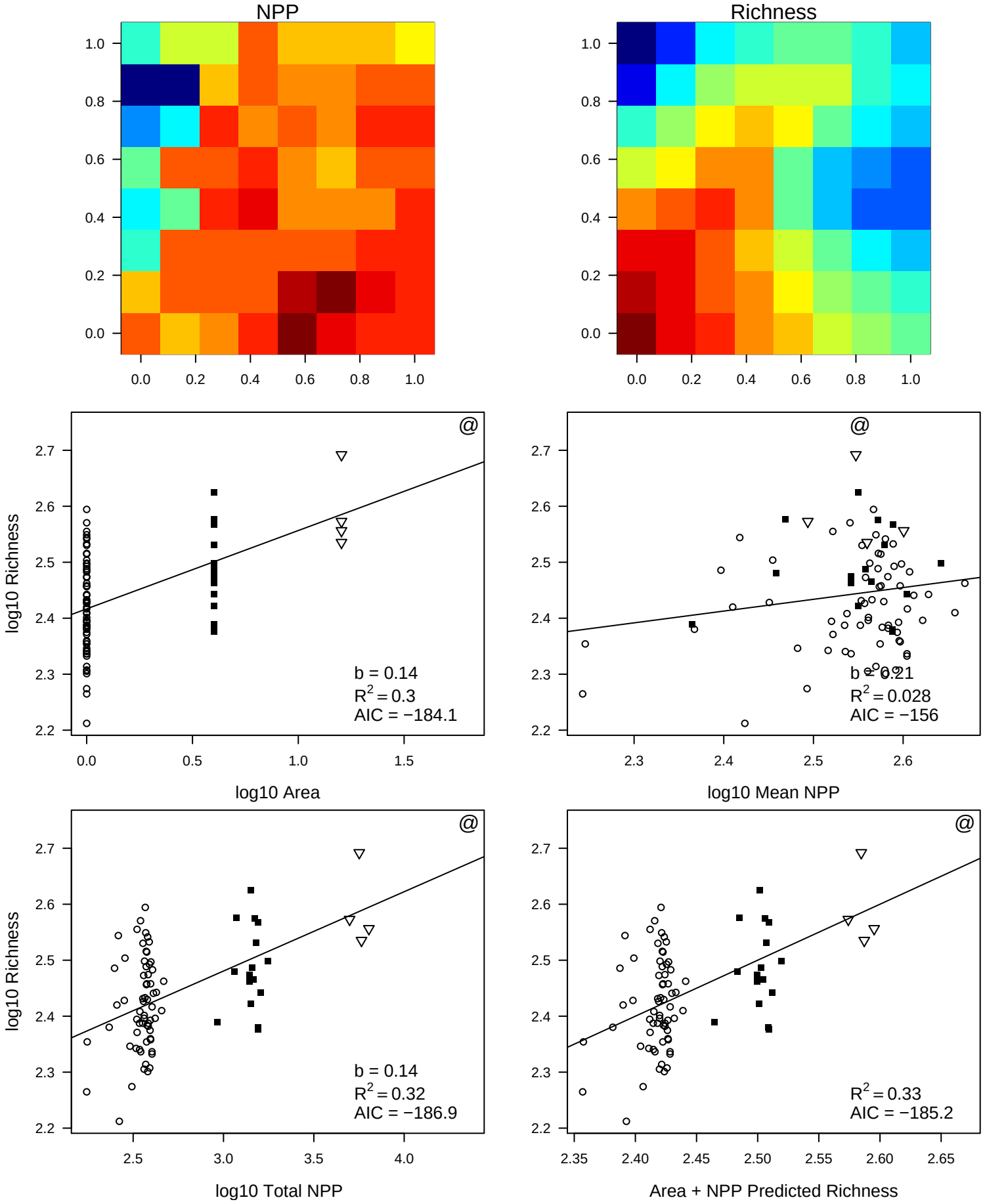
ID 34012


NPP
Richness
log10 Richness
log10 Area
b = 0.29
R2 = 0.088
AIC = 64.1
log10 Mean NPP
b = 0.85
R2 = 0.54
AIC = 10.8
log10 Total NPP
b = 0.48
R2 = 0.44
AIC = 25
Area + NPP Predicted Richness
R2 = 0.59
AIC = 3.4

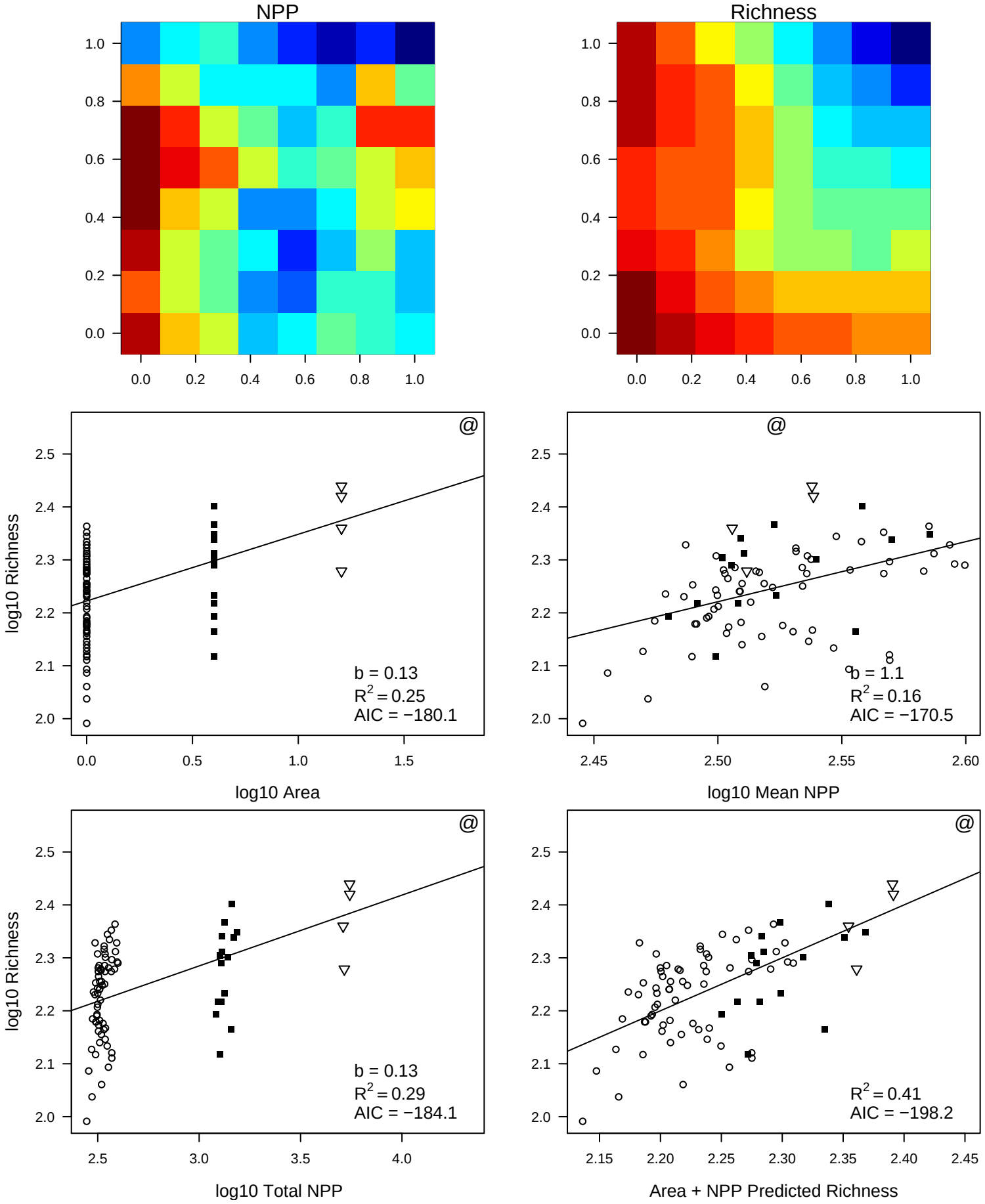
ID 35012


NPP
Richness
log10 Richness
log10 Area
b = 0.2
R2 = 0.072
AIC = 23.5
log10 Mean NPP
b = 0.43
R2 = 0.6
AIC = −47.4
log10 Total NPP
b = 0.33
R2 = 0.57
AIC = −41.9
Area + NPP Predicted Richness
R2 = 0.64
AIC = −55.7

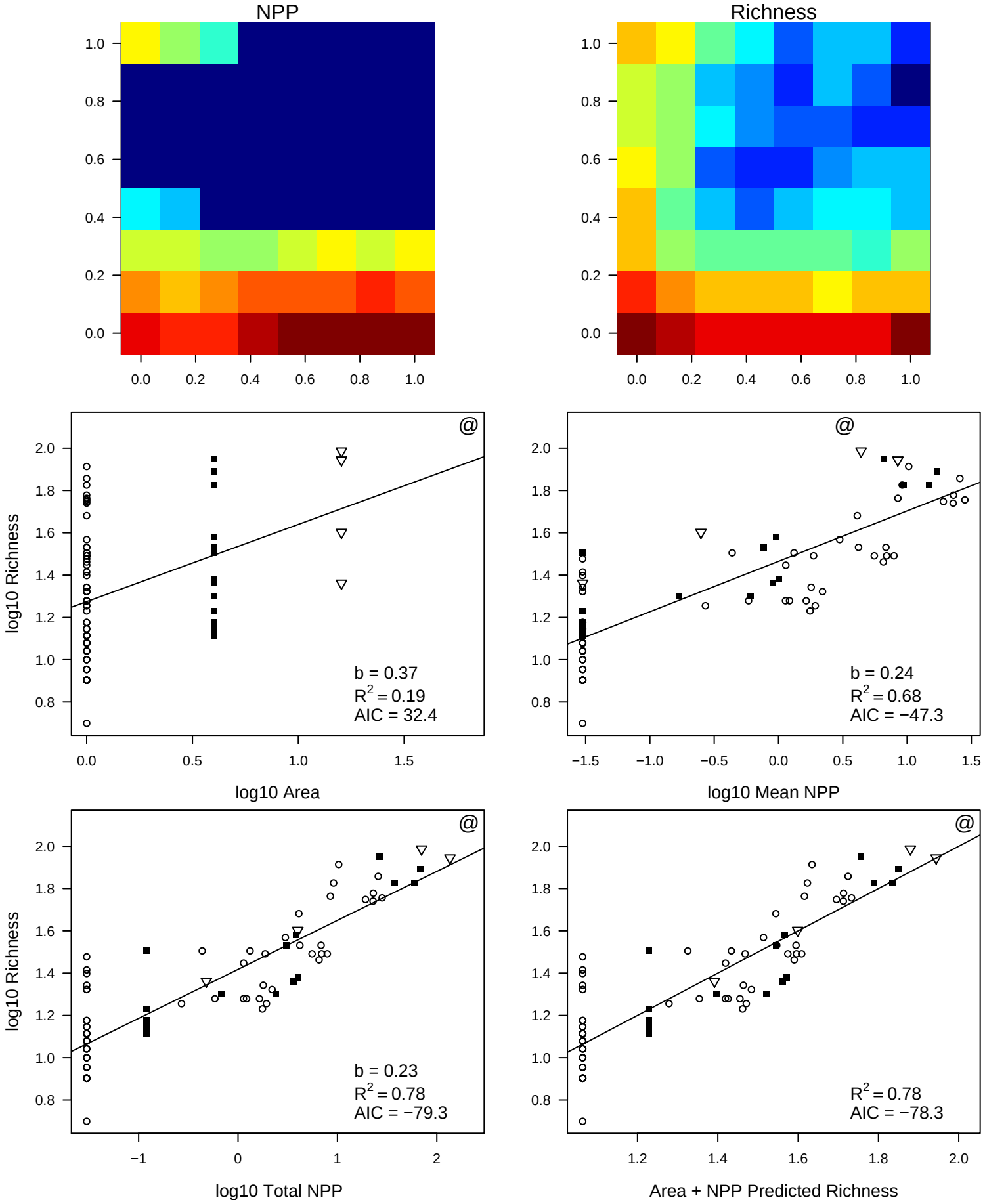
ID 36012


NPP
Richness
log10 Richness
log10 Area
b = 0.14
R2 = 0.3
AIC = −184.1
log10 Mean NPP
b = 0.21
R2 = 0.028
AIC = −156
log10 Total NPP
b = 0.14
R2 = 0.32
AIC = −186.9
Area + NPP Predicted Richness
R2 = 0.33
AIC = −185.2

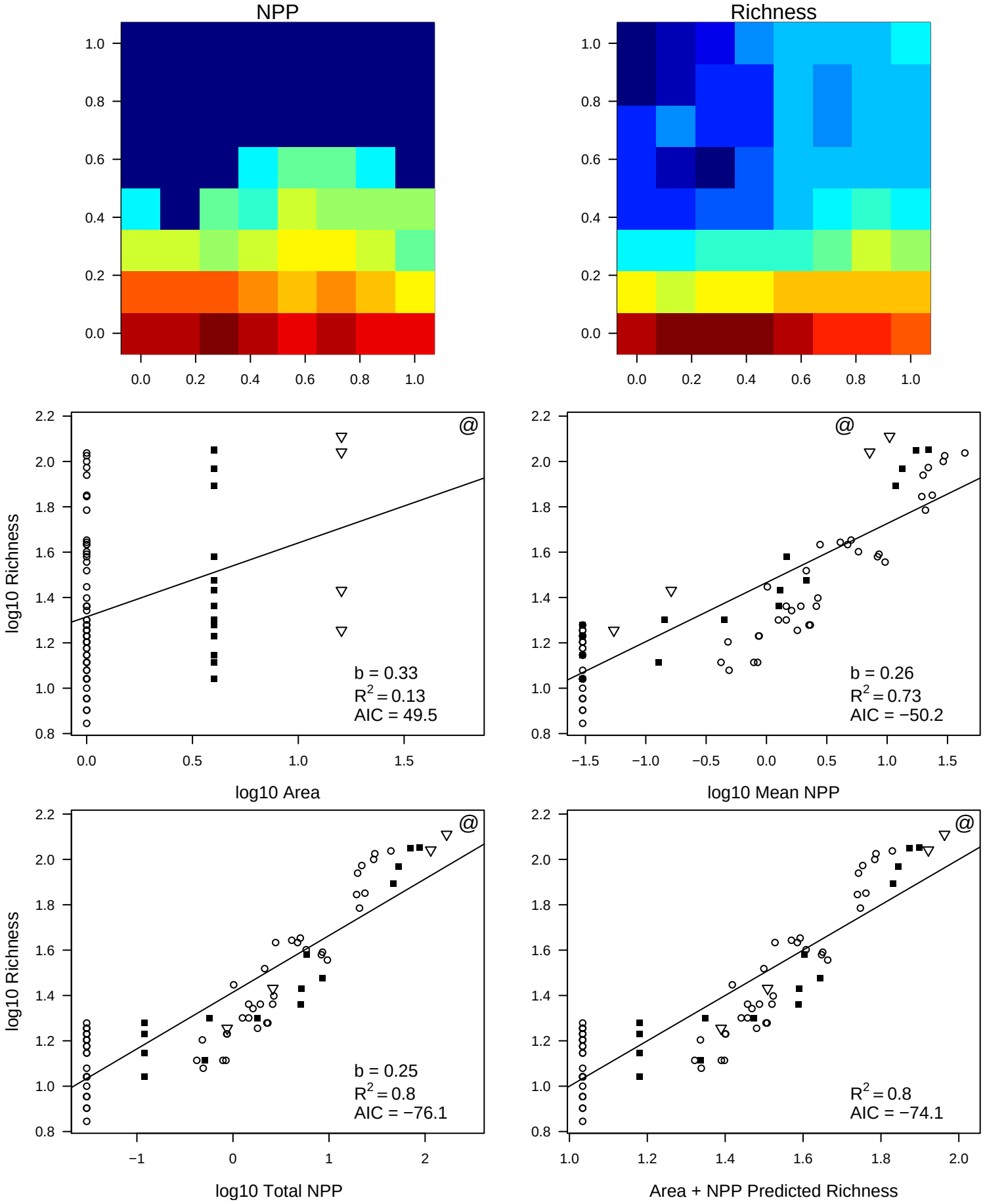
ID 37012


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.25
AIC = −180.1
log10 Mean NPP
b = 1.1
R2 = 0.16
AIC = −170.5
log10 Total NPP
b = 0.13
R2 = 0.29
AIC = −184.1
Area + NPP Predicted Richness
R2 = 0.41
AIC = −198.2

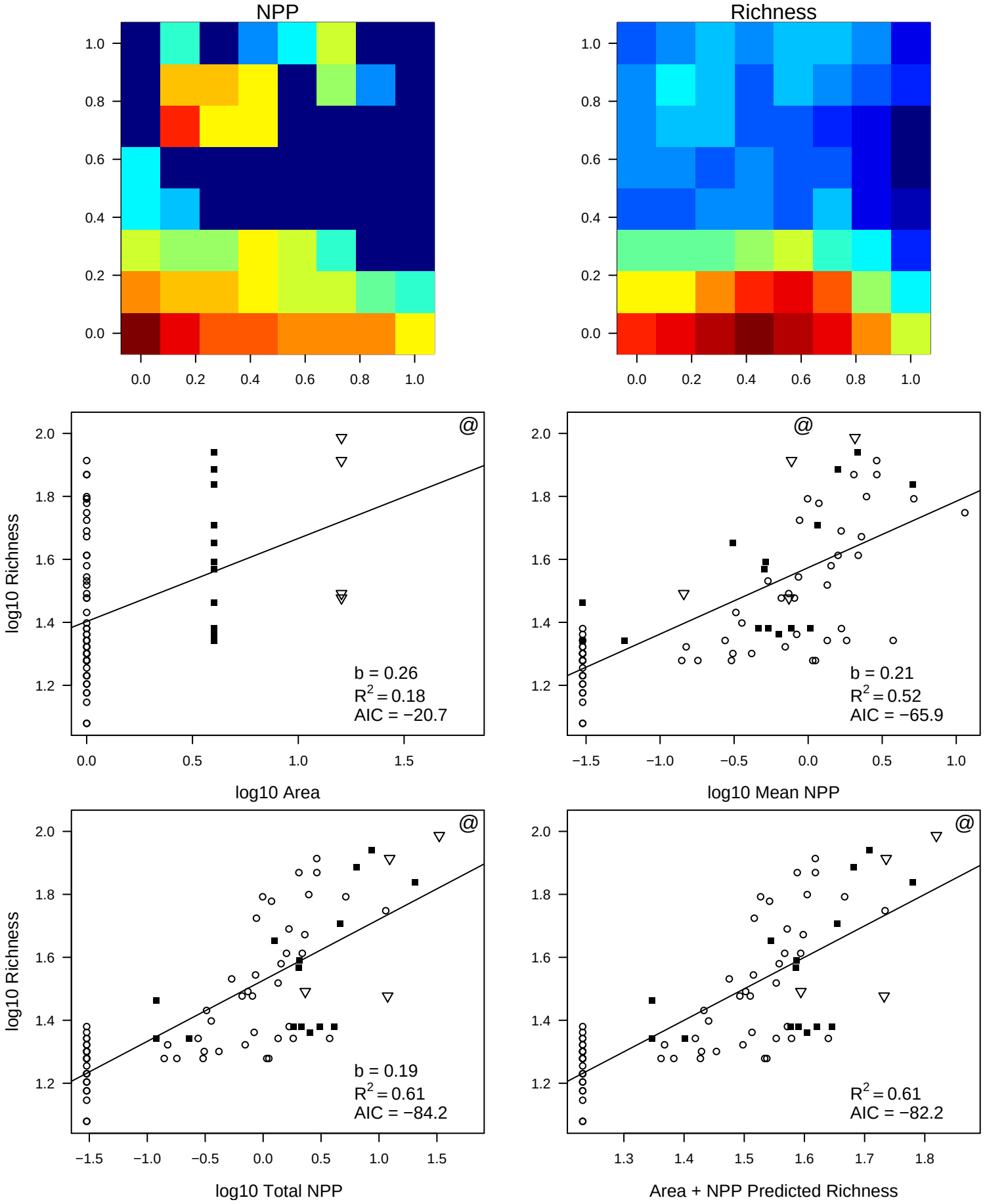
ID 22011


NPP
Richness
log10 Richness
log10 Area
b = 0.37
R2 = 0.19
AIC = 32.4
log10 Mean NPP
b = 0.24
R2 = 0.68
AIC = −47.3
log10 Total NPP
b = 0.23
R2 = 0.78
AIC = −79.3
Area + NPP Predicted Richness
R2 = 0.78
AIC = −78.3

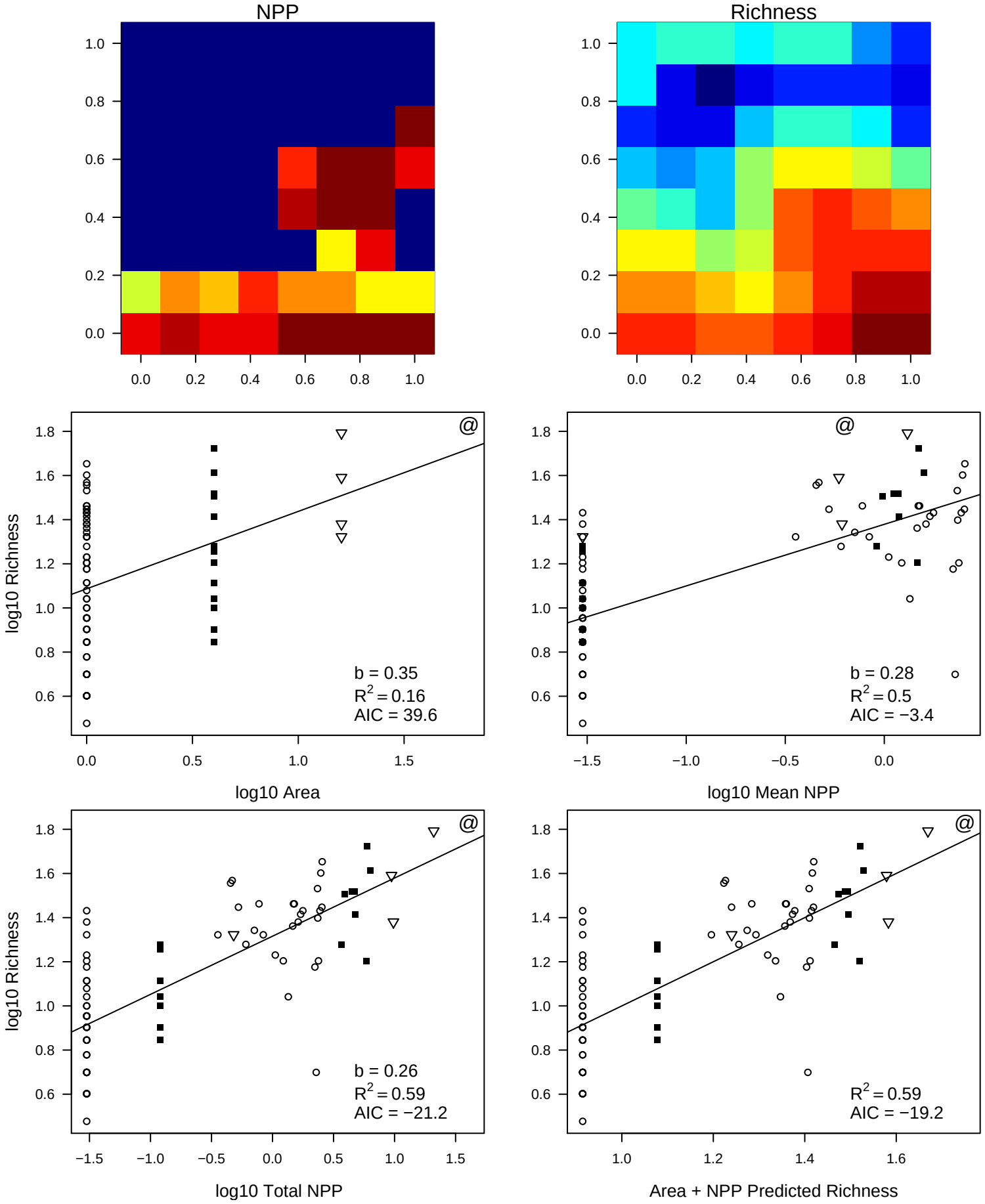
ID 23011


NPP
Richness
log10 Richness
log10 Area
b = 0.33
R2 = 0.13
AIC = 49.5
log10 Mean NPP
b = 0.26
R2 = 0.73
AIC = −50.2
log10 Total NPP
b = 0.25
R2 = 0.8
AIC = −76.1
Area + NPP Predicted Richness
R2 = 0.8
AIC = −74.1

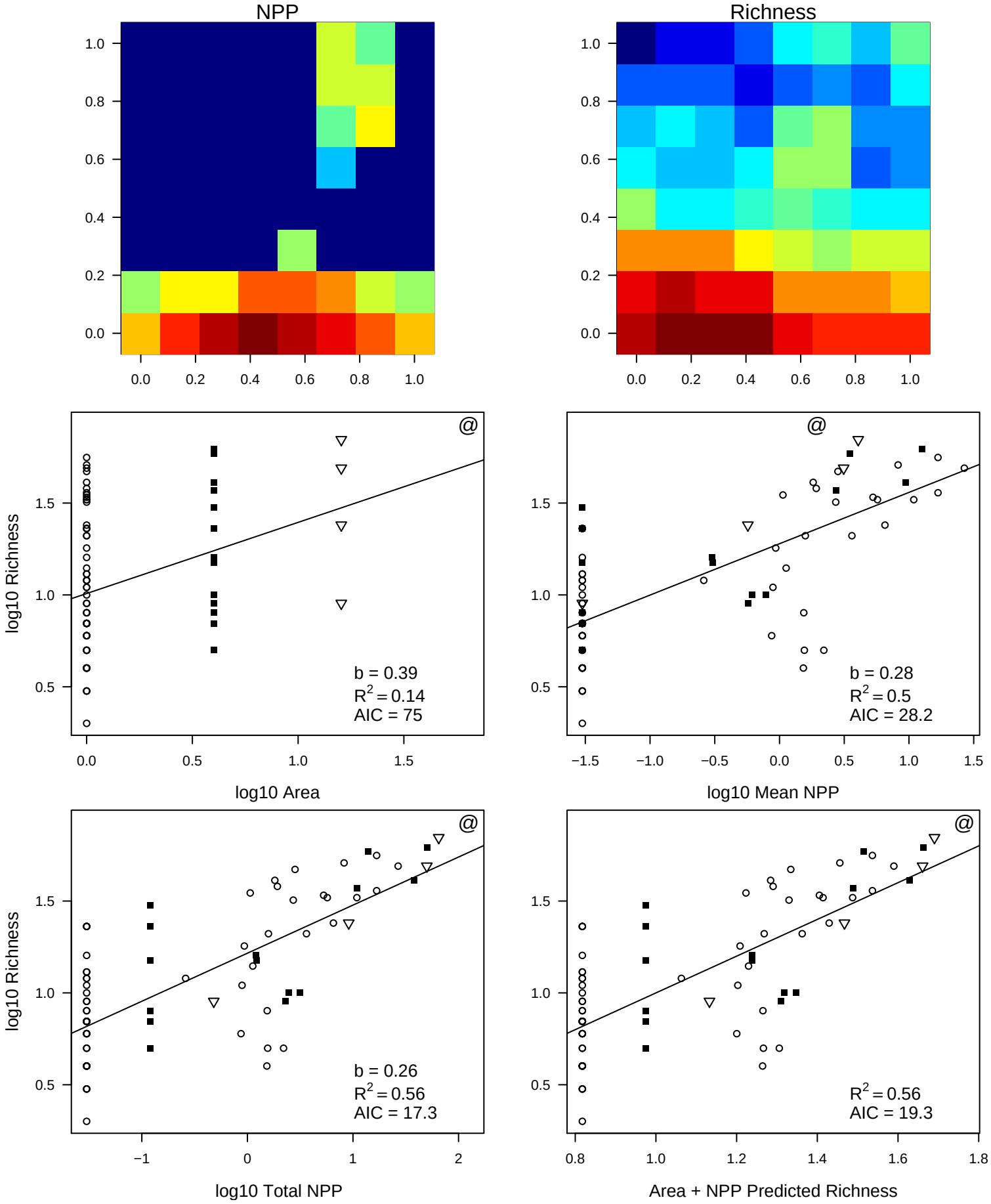
ID 24011


NPP
Richness
log10 Richness
log10 Area
b = 0.26
R2 = 0.18
AIC = −20.7
log10 Mean NPP
b = 0.21
R2 = 0.52
AIC = −65.9
log10 Total NPP
b = 0.19
R2 = 0.61
AIC = −84.2
Area + NPP Predicted Richness
R2 = 0.61
AIC = −82.2

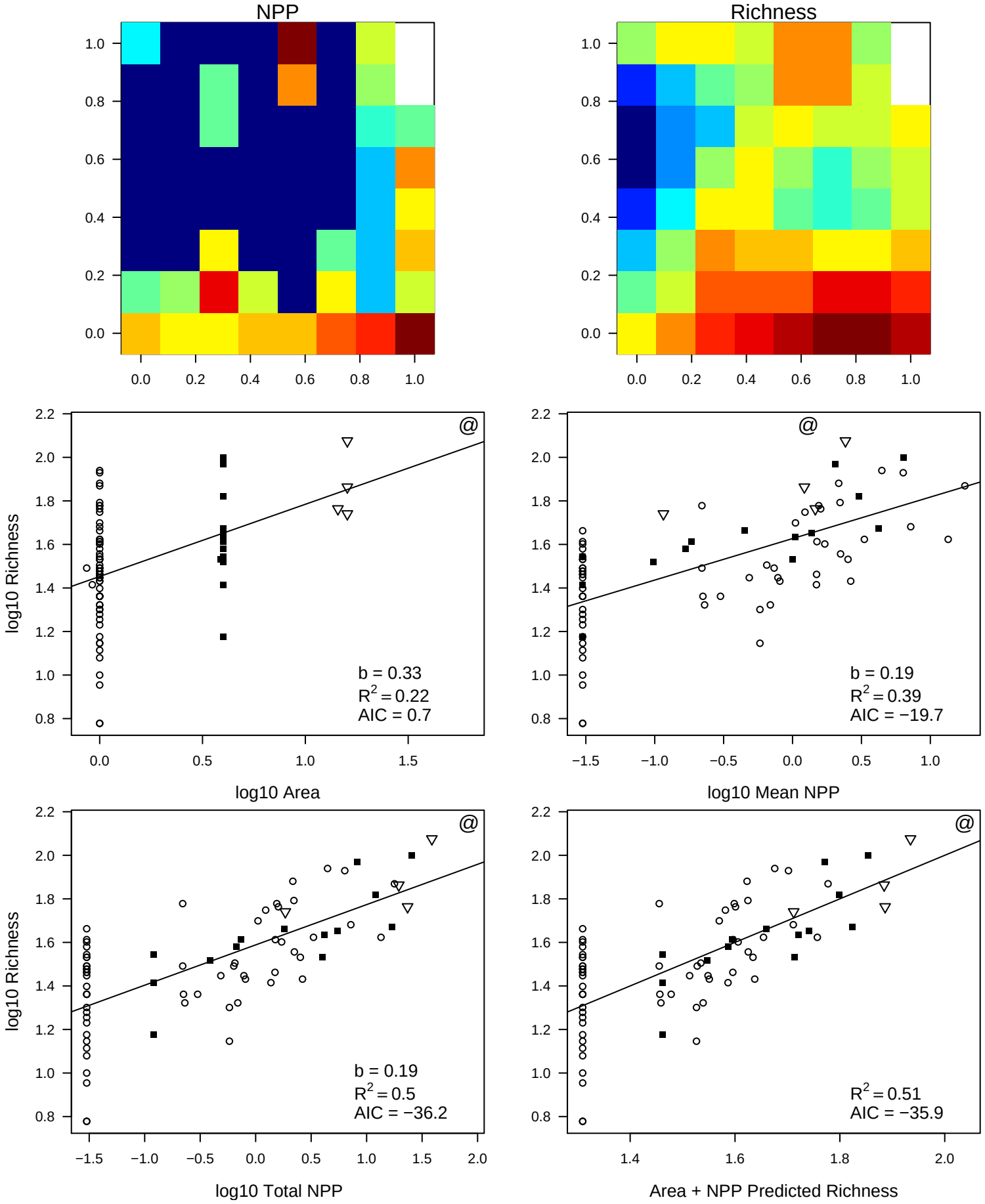
ID 25011


NPP
Richness
log10 Richness
log10 Area
b = 0.35
R2 = 0.16
AIC = 39.6
log10 Mean NPP
b = 0.28
R2 = 0.5
AIC = −3.4
log10 Total NPP
b = 0.26
R2 = 0.59
AIC = −21.2
Area + NPP Predicted Richness
R2 = 0.59
AIC = −19.2

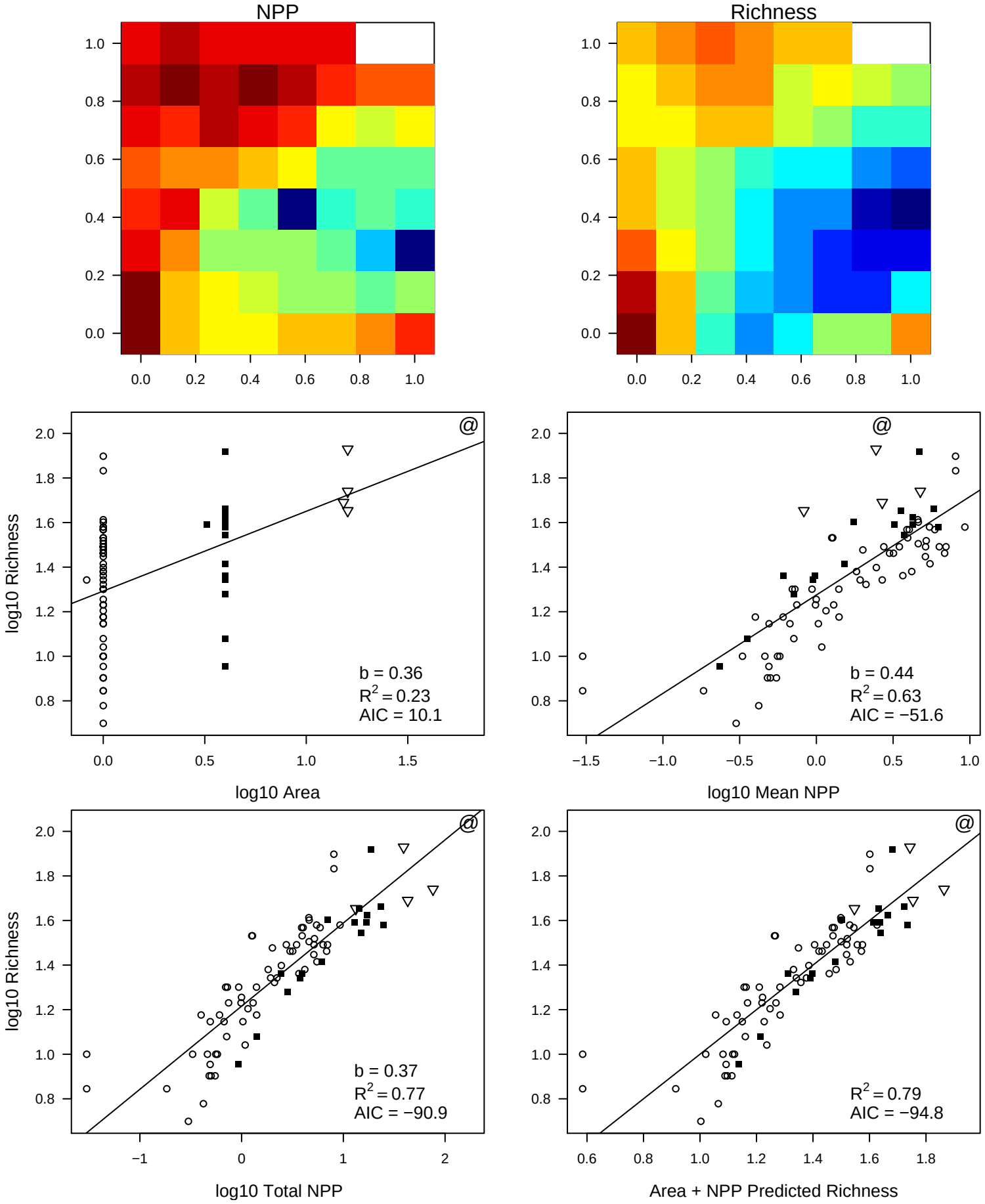
ID 26011


NPP
Richness
log10 Richness
log10 Area
b = 0.39
R2 = 0.14
AIC = 75
log10 Mean NPP
b = 0.28
R2 = 0.5
AIC = 28.2
log10 Total NPP
b = 0.26
R2 = 0.56
AIC = 17.3
Area + NPP Predicted Richness
R2 = 0.56
AIC = 19.3

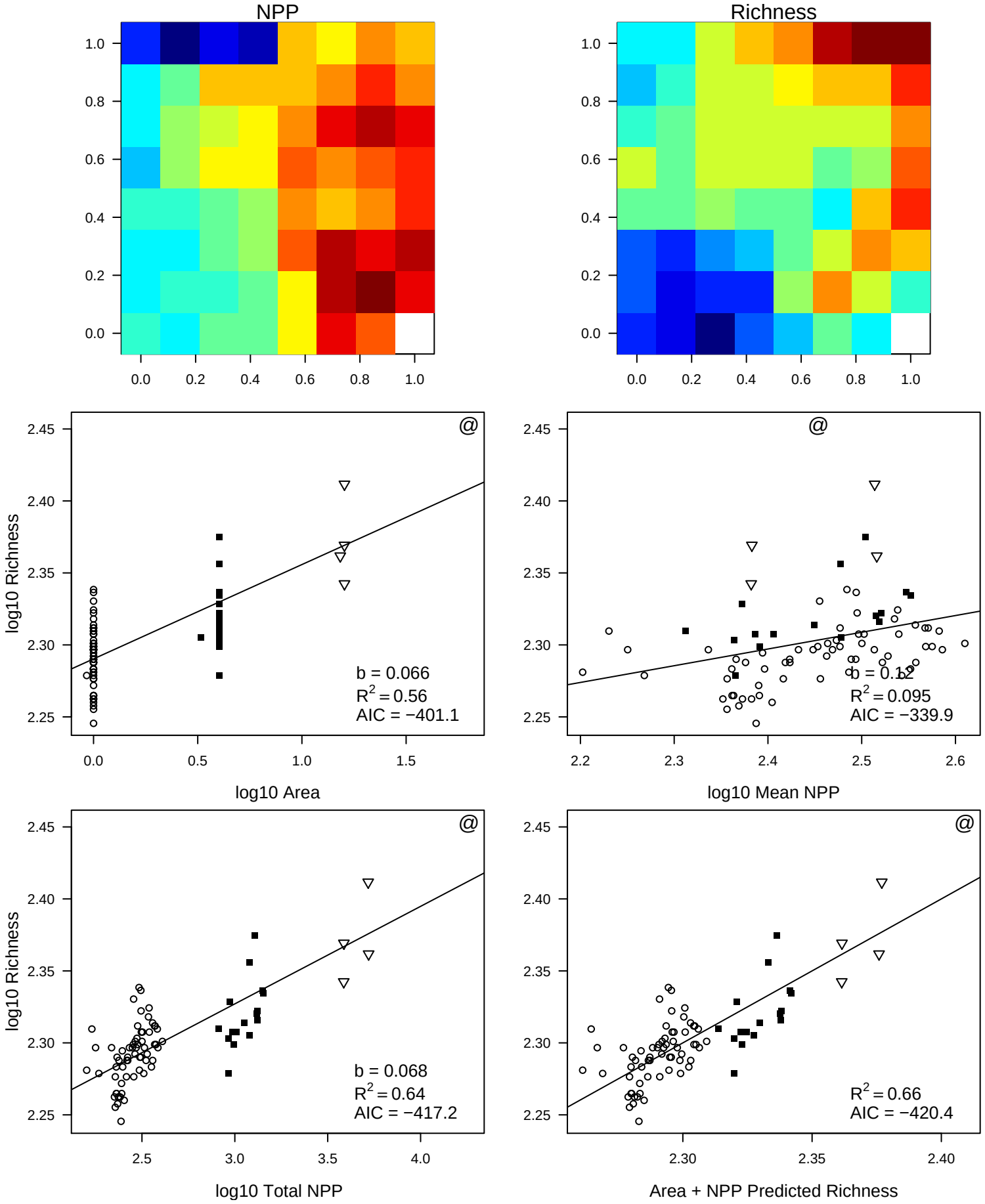
ID 27011


NPP
Richness
log10 Richness
log10 Area
b = 0.33
R2 = 0.22
AIC = 0.7
log10 Mean NPP
b = 0.19
R2 = 0.39
AIC = −19.7
log10 Total NPP
b = 0.19
R2 = 0.5
AIC = −36.2
Area + NPP Predicted Richness
R2 = 0.51
AIC = −35.9

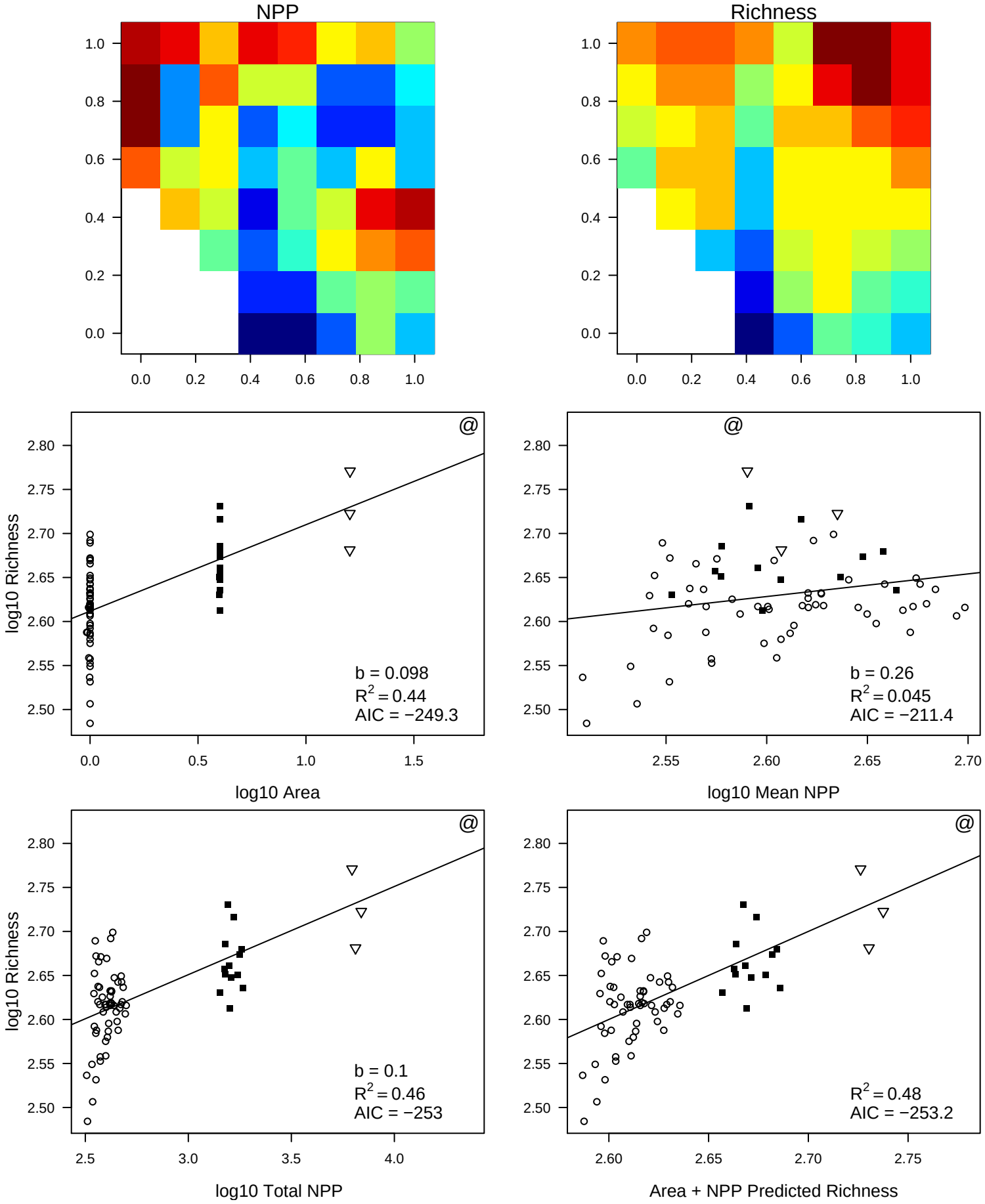
ID 29011


NPP
Richness
log10 Richness
log10 Area
b = 0.36
R2 = 0.23
AIC = 10.1
log10 Mean NPP
b = 0.44
R2 = 0.63
AIC = −51.6
log10 Total NPP
b = 0.37
R2 = 0.77
AIC = −90.9
Area + NPP Predicted Richness
R2 = 0.79
AIC = −94.8

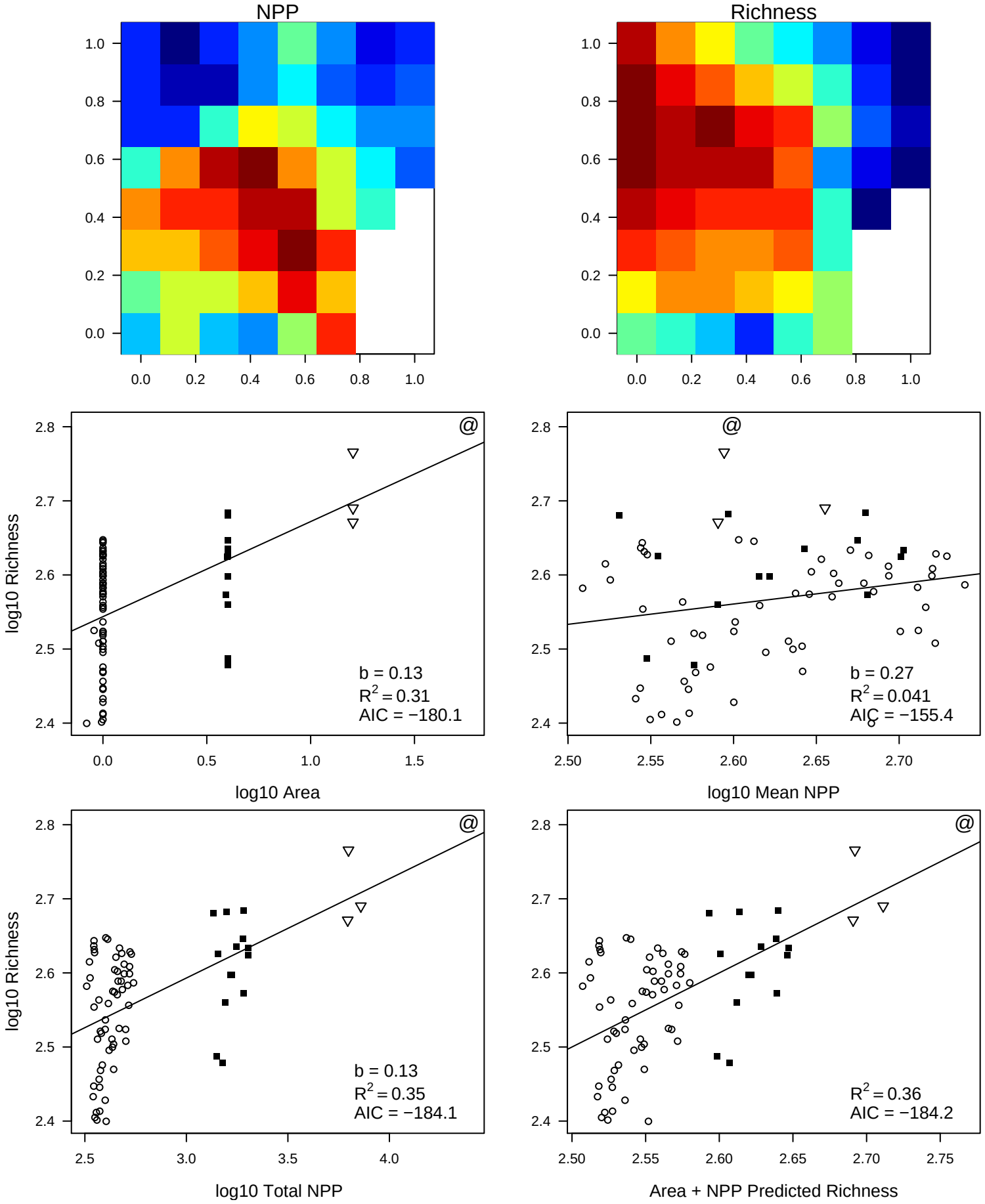
ID 33011


NPP
Richness
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
@
log10 Richness
log10 Area
b = 0.066
$R^2 = 0.56$
AIC = −401.1
log10 Mean NPP
b = 0.12
$R^2 = 0.095$
AIC = −339.9
log10 Total NPP
b = 0.068
$R^2 = 0.64$
AIC = −417.2
Area + NPP Predicted Richness
$R^2 = 0.66$
AIC = −420.4

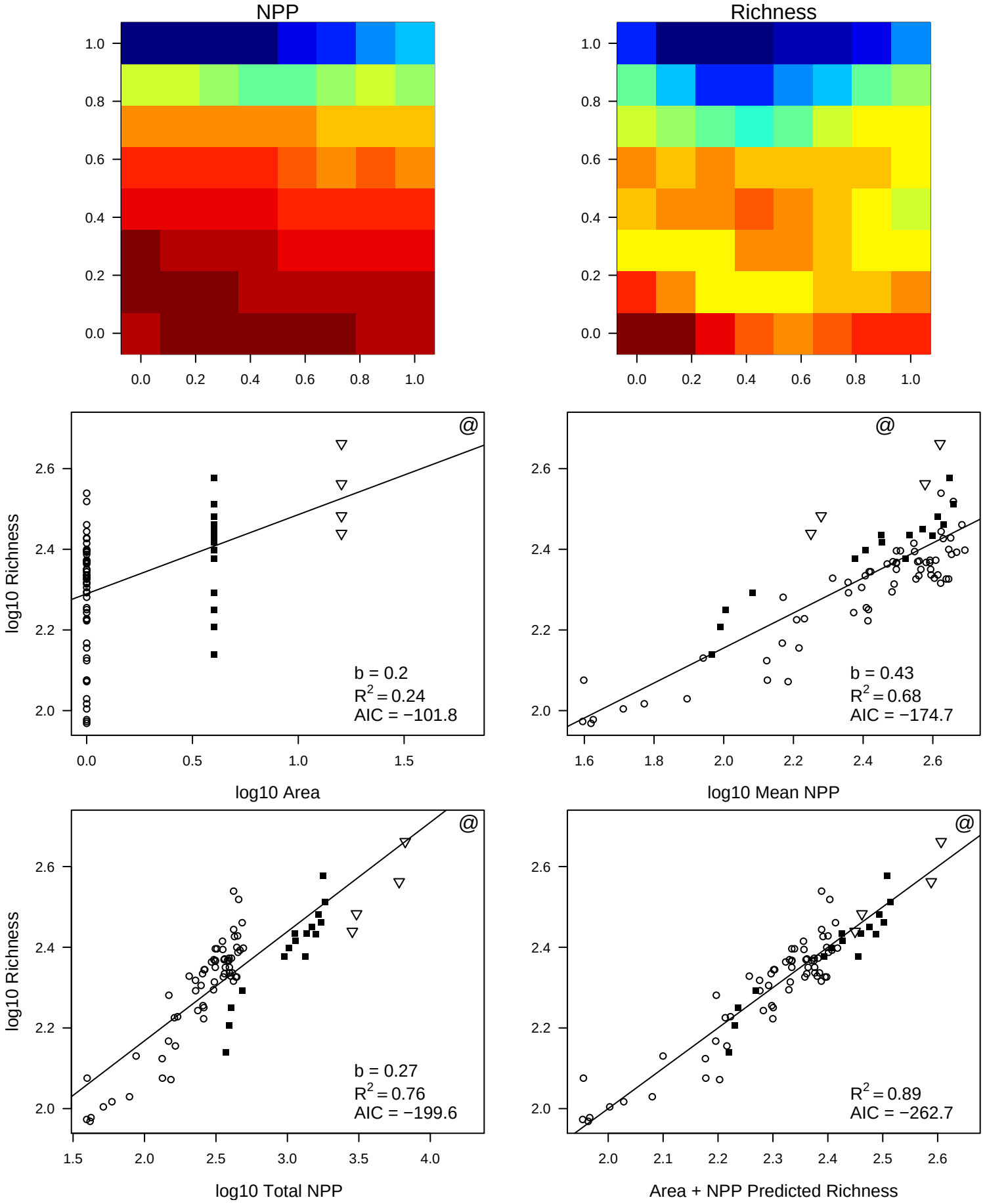
ID 35011


NPP
Richness
log10 Richness
log10 Area
b = 0.098
R2 = 0.44
AIC = −249.3
log10 Mean NPP
b = 0.26
R2 = 0.045
AIC = −211.4
log10 Total NPP
b = 0.1
R2 = 0.46
AIC = −253
Area + NPP Predicted Richness
R2 = 0.48
AIC = −253.2

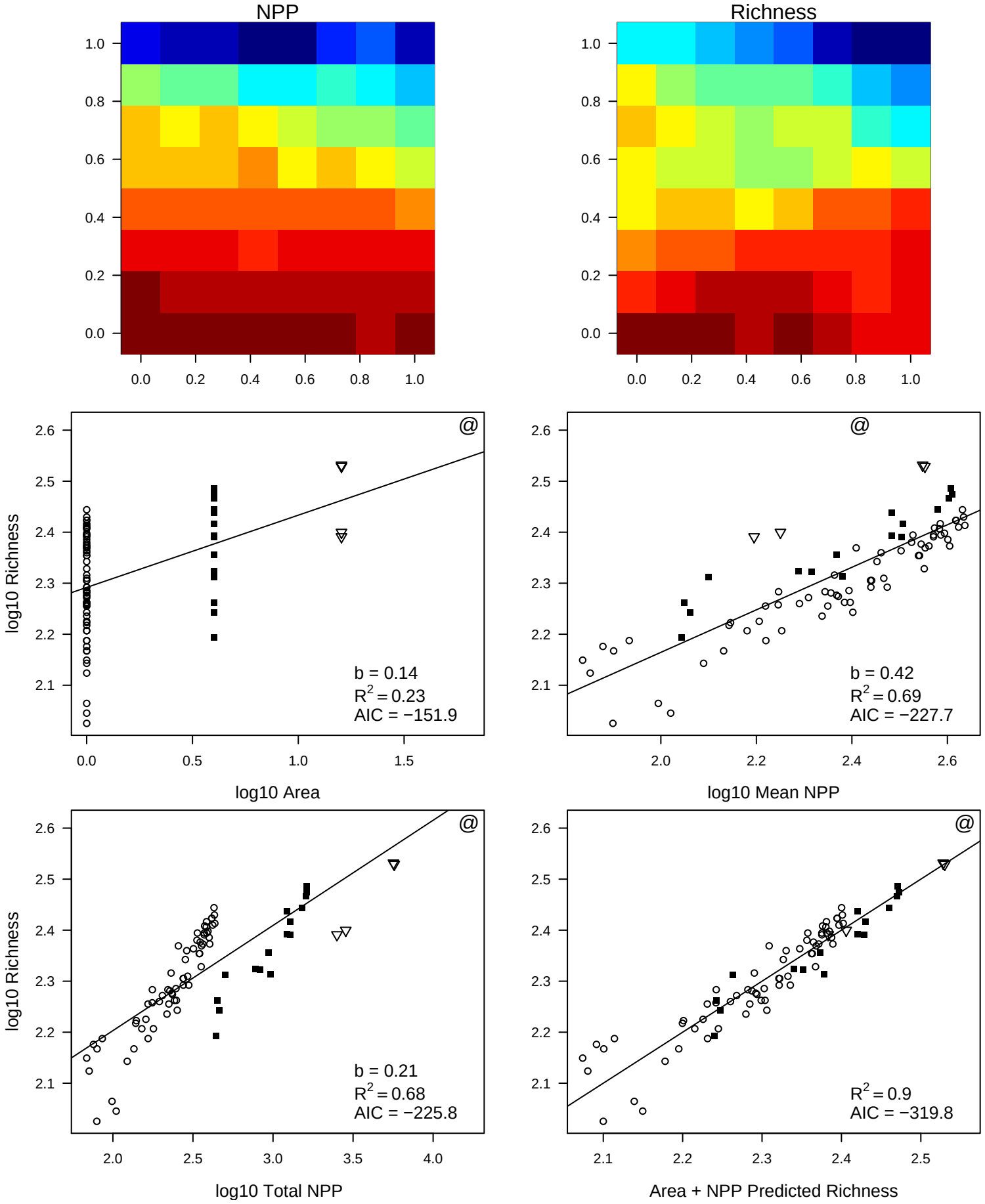
ID 36011


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.31
AIC = −180.1
log10 Mean NPP
b = 0.27
R2 = 0.041
AIC = −155.4
log10 Total NPP
b = 0.13
R2 = 0.35
AIC = −184.1
Area + NPP Predicted Richness
R2 = 0.36
AIC = −184.2

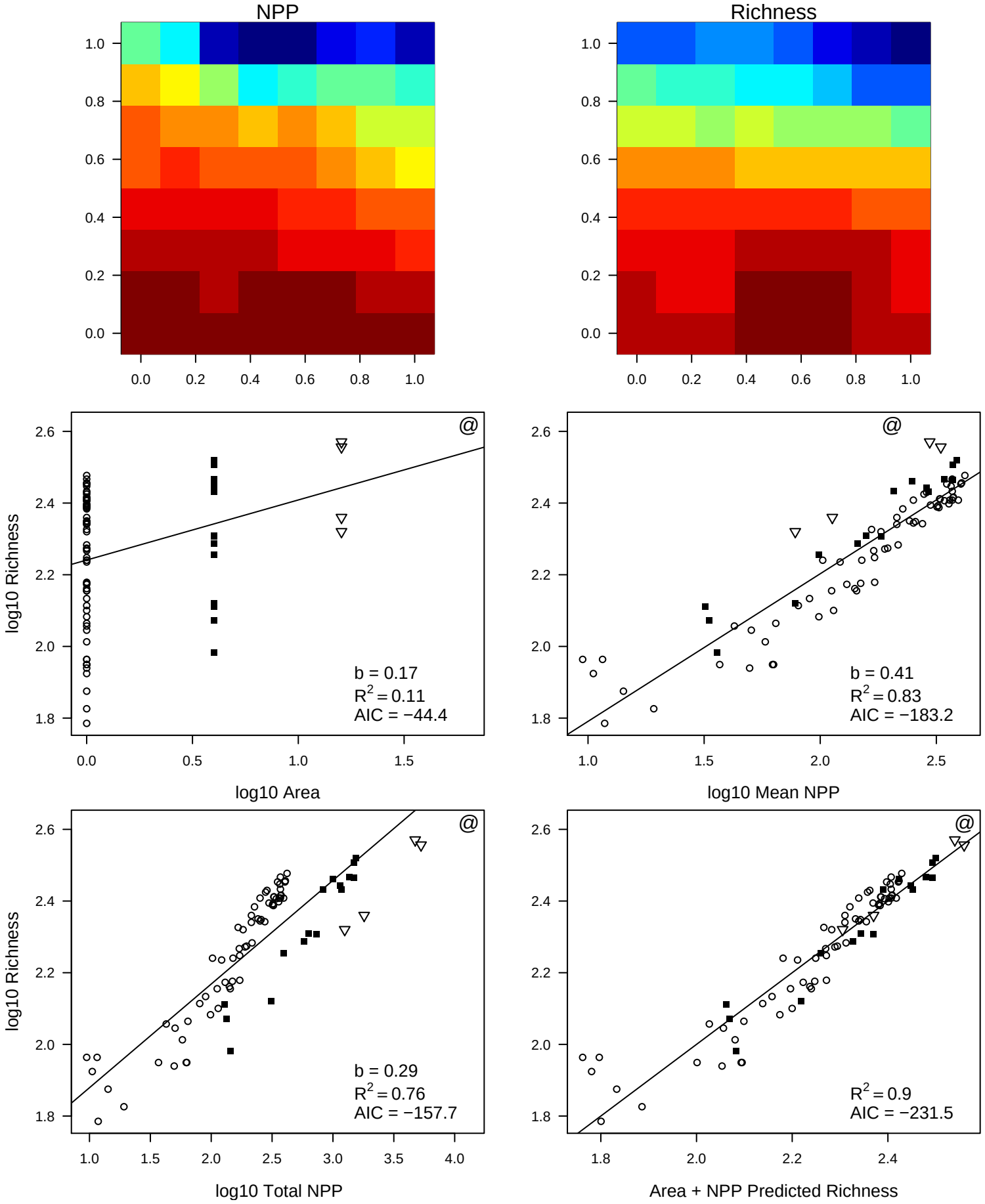
ID 22010


NPP
Richness
log10 Richness
log10 Area
b = 0.2
R2 = 0.24
AIC = −101.8
log10 Mean NPP
b = 0.43
R2 = 0.68
AIC = −174.7
log10 Total NPP
b = 0.27
R2 = 0.76
AIC = −199.6
Area + NPP Predicted Richness
R2 = 0.89
AIC = −262.7

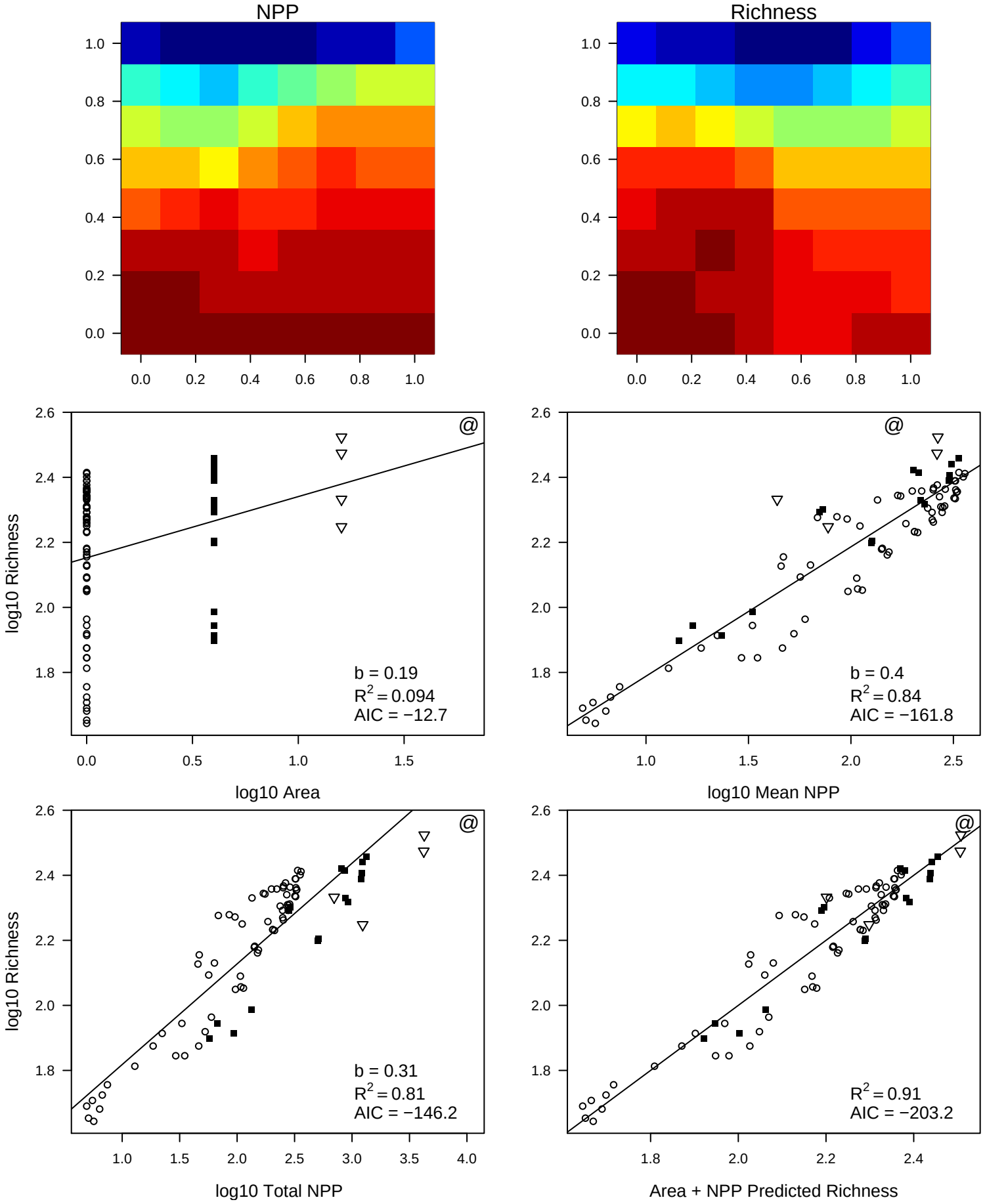
ID 23010


NPP
Richness
log10 Richness
log10 Area
b = 0.14
R2 = 0.23
AIC = −151.9
log10 Mean NPP
b = 0.42
R2 = 0.69
AIC = −227.7
log10 Total NPP
b = 0.21
R2 = 0.68
AIC = −225.8
Area + NPP Predicted Richness
R2 = 0.9
AIC = −319.8

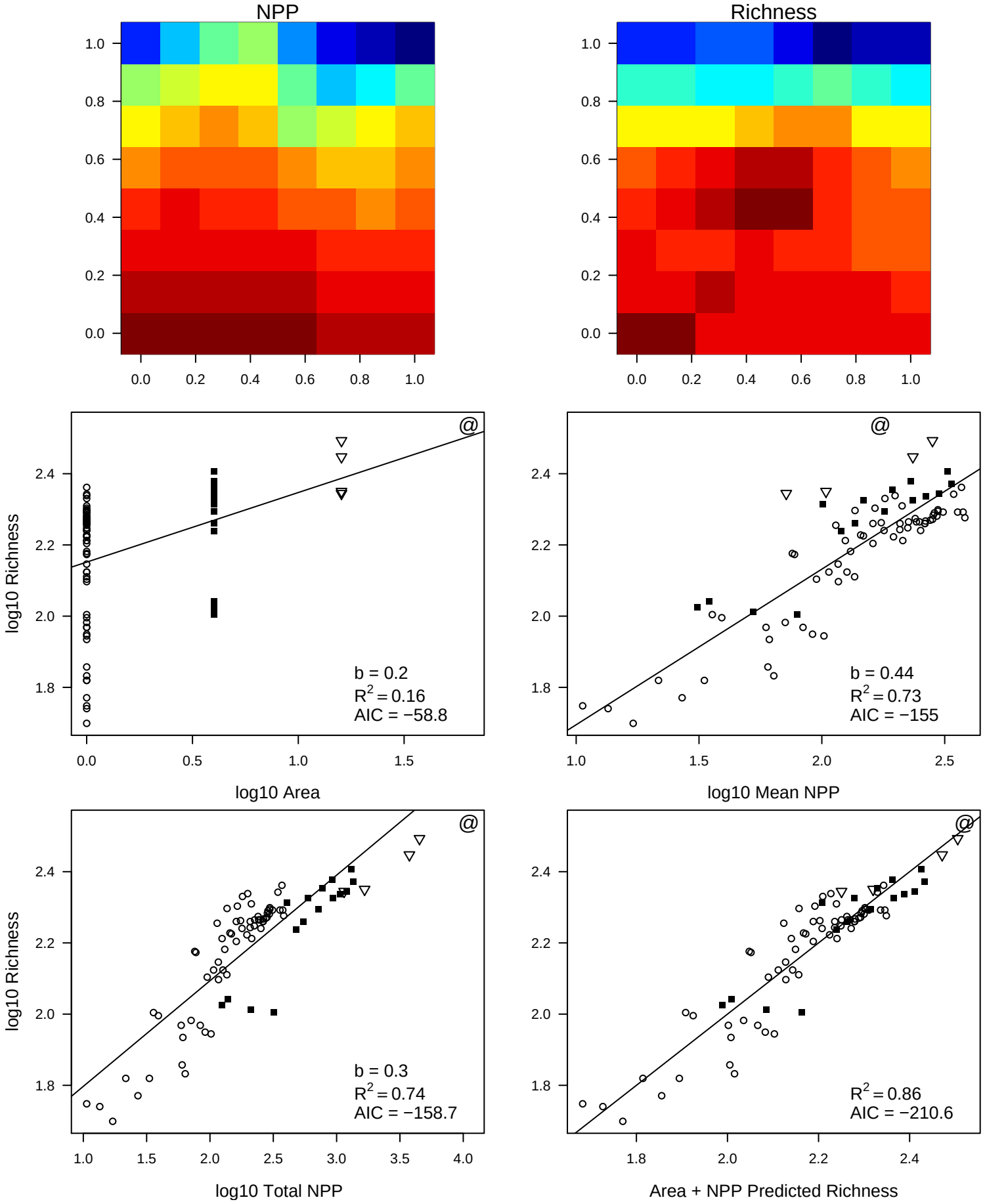
ID 24010


NPP
Richness
log10 Richness
log10 Area
b = 0.17
R2 = 0.11
AIC = −44.4
log10 Mean NPP
b = 0.41
R2 = 0.83
AIC = −183.2
log10 Total NPP
b = 0.29
R2 = 0.76
AIC = −157.7
Area + NPP Predicted Richness
R2 = 0.9
AIC = −231.5

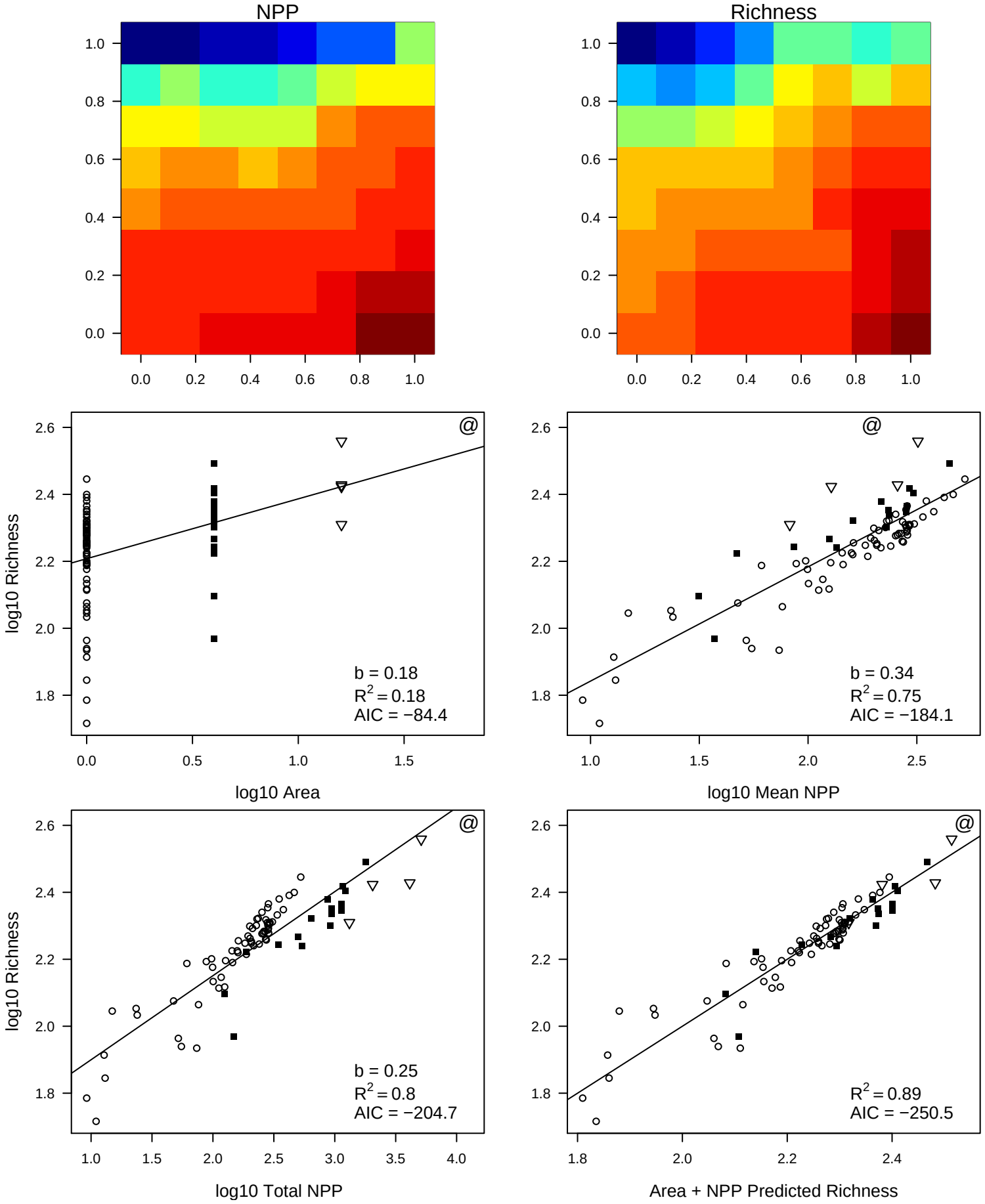
ID 25010


NPP
Richness
log10 Richness
log10 Area
b = 0.19
R2 = 0.094
AIC = −12.7
log10 Mean NPP
b = 0.4
R2 = 0.84
AIC = −161.8
log10 Total NPP
b = 0.31
R2 = 0.81
AIC = −146.2
Area + NPP Predicted Richness
R2 = 0.91
AIC = −203.2

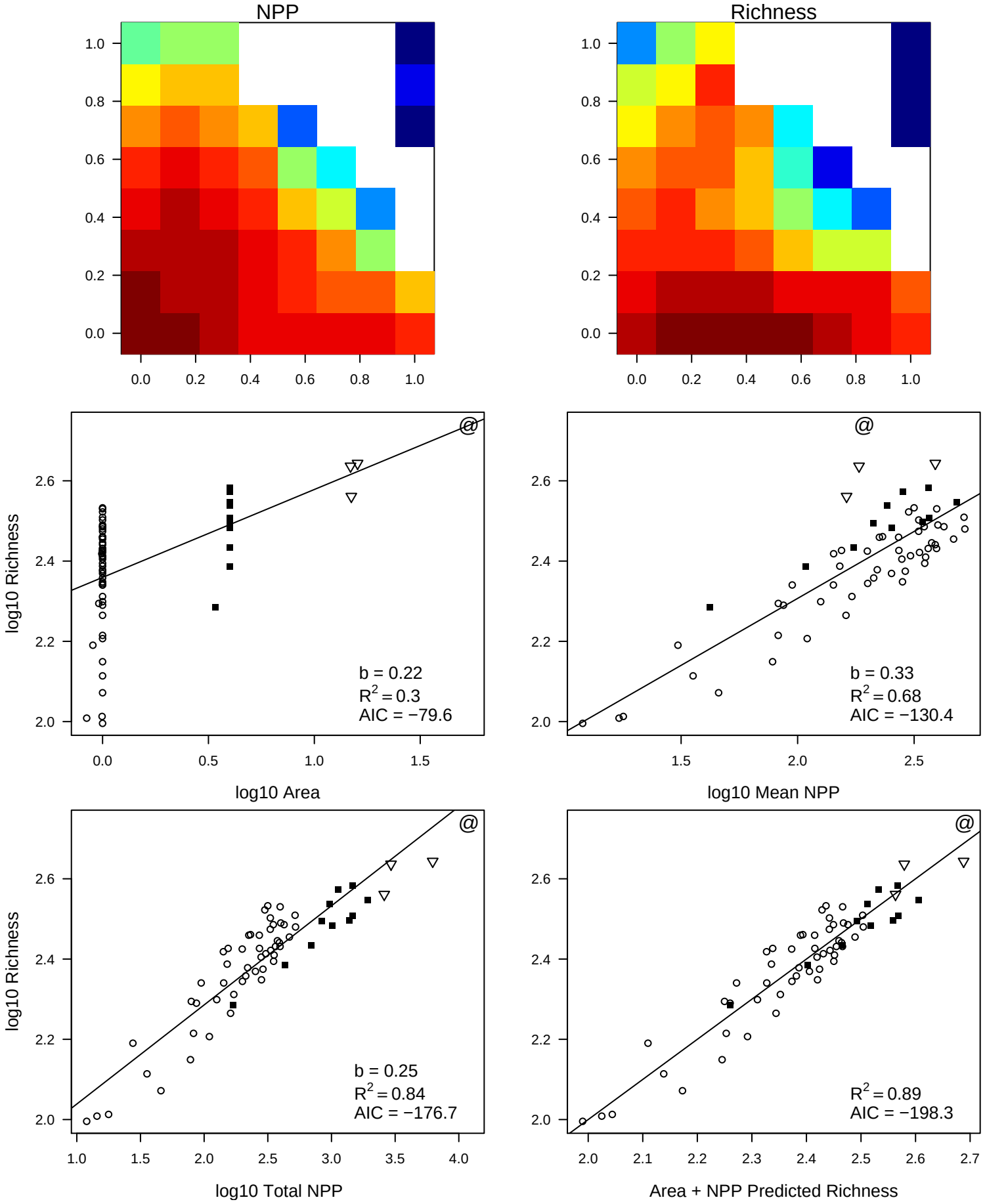
ID 26010


NPP
Richness
log10 Richness
log10 Area
b = 0.2
R2 = 0.16
AIC = −58.8
log10 Mean NPP
b = 0.44
R2 = 0.73
AIC = −155
log10 Total NPP
b = 0.3
R2 = 0.74
AIC = −158.7
Area + NPP Predicted Richness
R2 = 0.86
AIC = −210.6

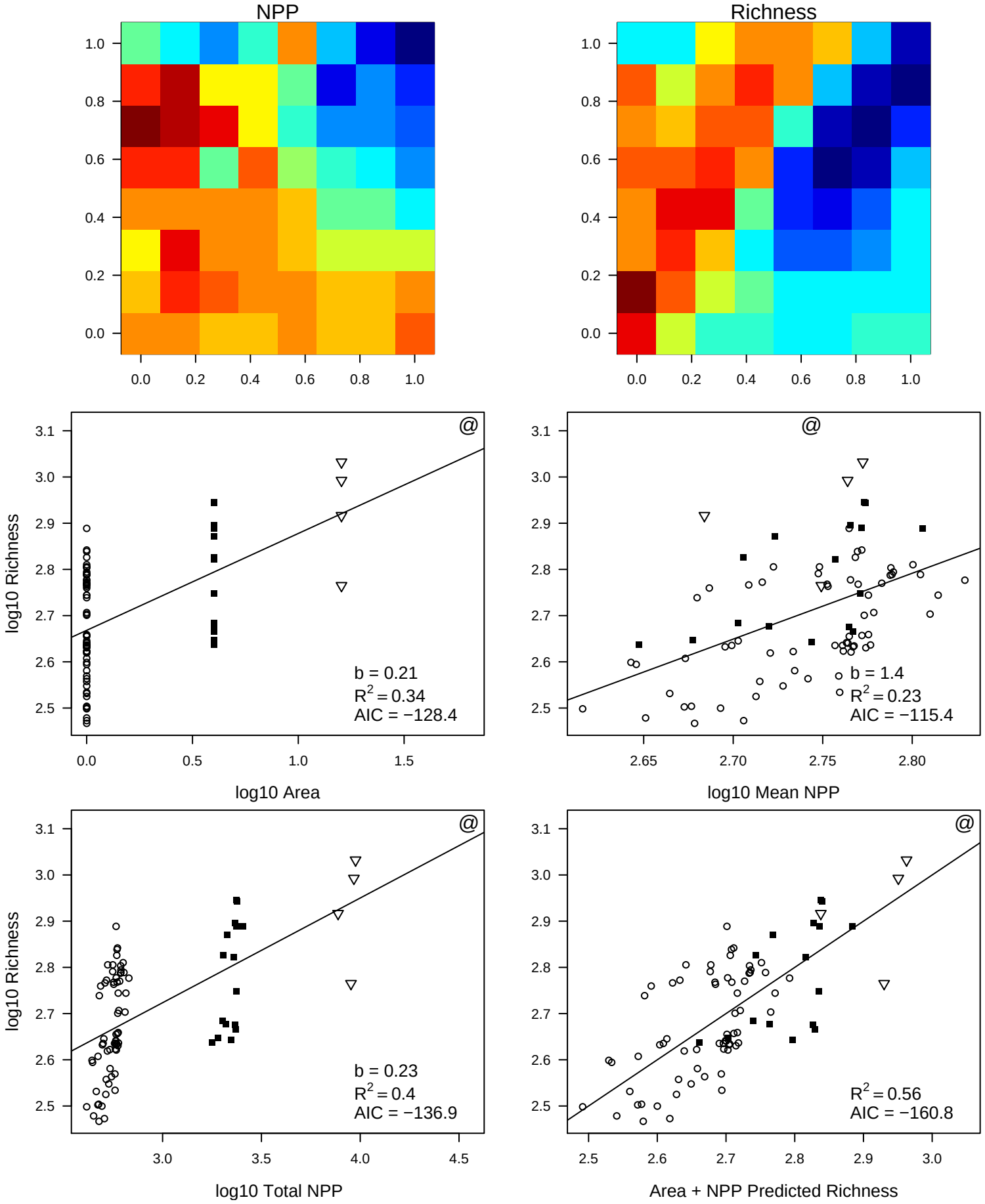
ID 27010


NPP
Richness
log10 Richness
log10 Area
b = 0.18
R2 = 0.18
AIC = −84.4
log10 Mean NPP
b = 0.34
R2 = 0.75
AIC = −184.1
log10 Total NPP
b = 0.25
R2 = 0.8
AIC = −204.7
Area + NPP Predicted Richness
R2 = 0.89
AIC = −250.5

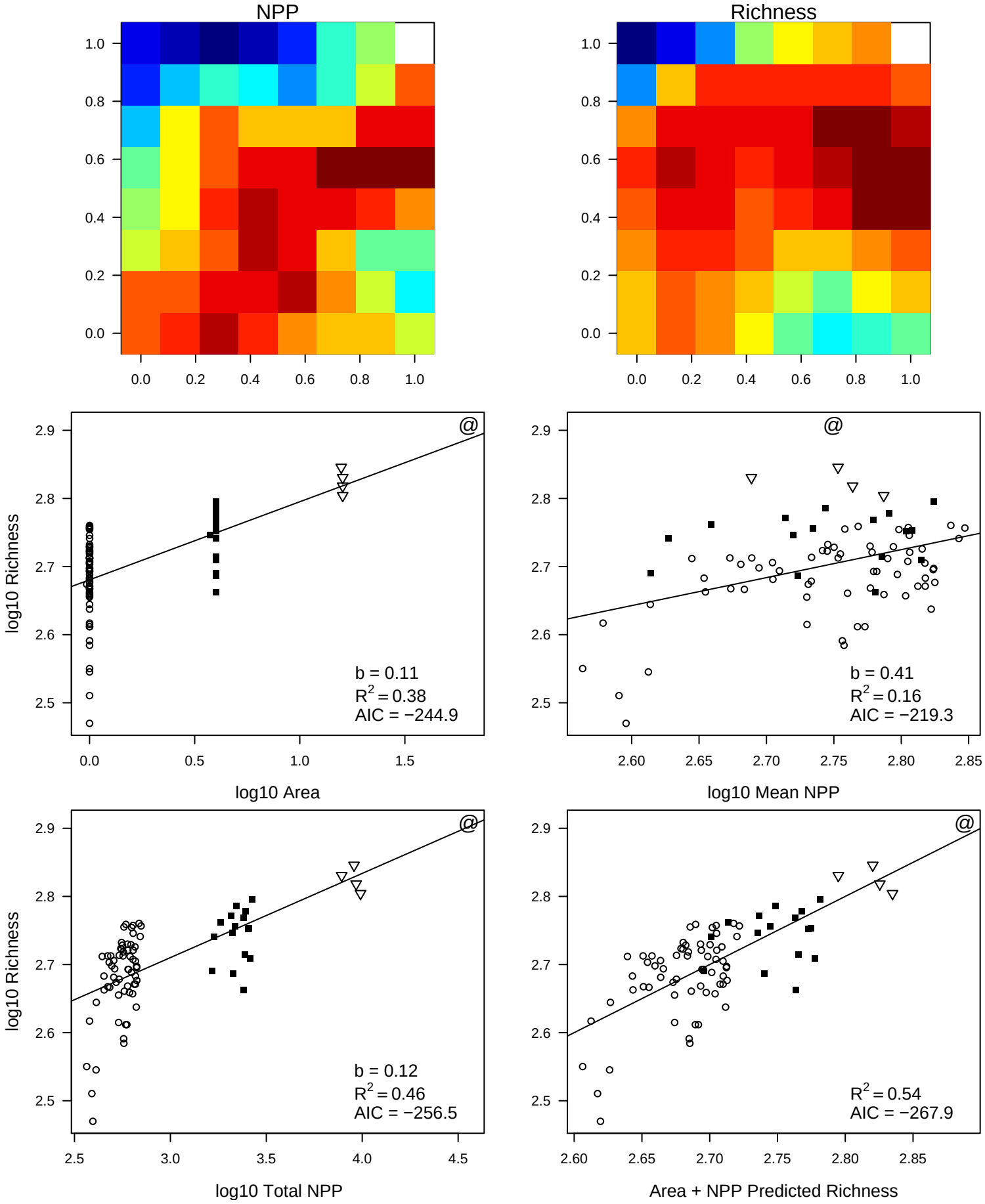
ID 28010


NPP
Richness
log10 Richness
log10 Area
b = 0.22
R2 = 0.3
AIC = −79.6
log10 Mean NPP
b = 0.33
R2 = 0.68
AIC = −130.4
log10 Total NPP
b = 0.25
R2 = 0.84
AIC = −176.7
Area + NPP Predicted Richness
R2 = 0.89
AIC = −198.3

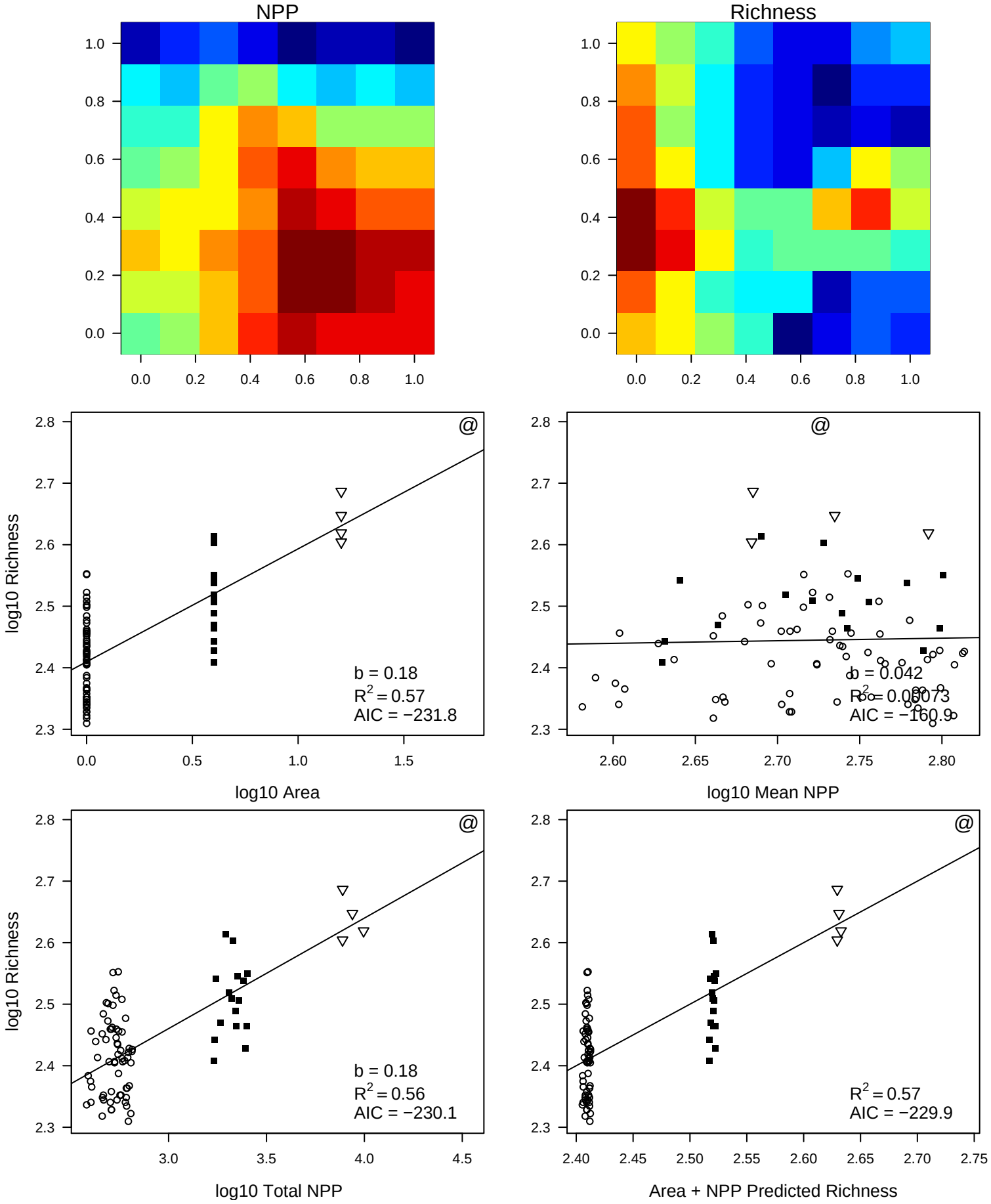
ID 14009


NPP
Richness
log10 Richness
log10 Area
b = 0.21
R2 = 0.34
AIC = −128.4
log10 Mean NPP
b = 1.4
R2 = 0.23
AIC = −115.4
log10 Total NPP
b = 0.23
R2 = 0.4
AIC = −136.9
Area + NPP Predicted Richness
R2 = 0.56
AIC = −160.8

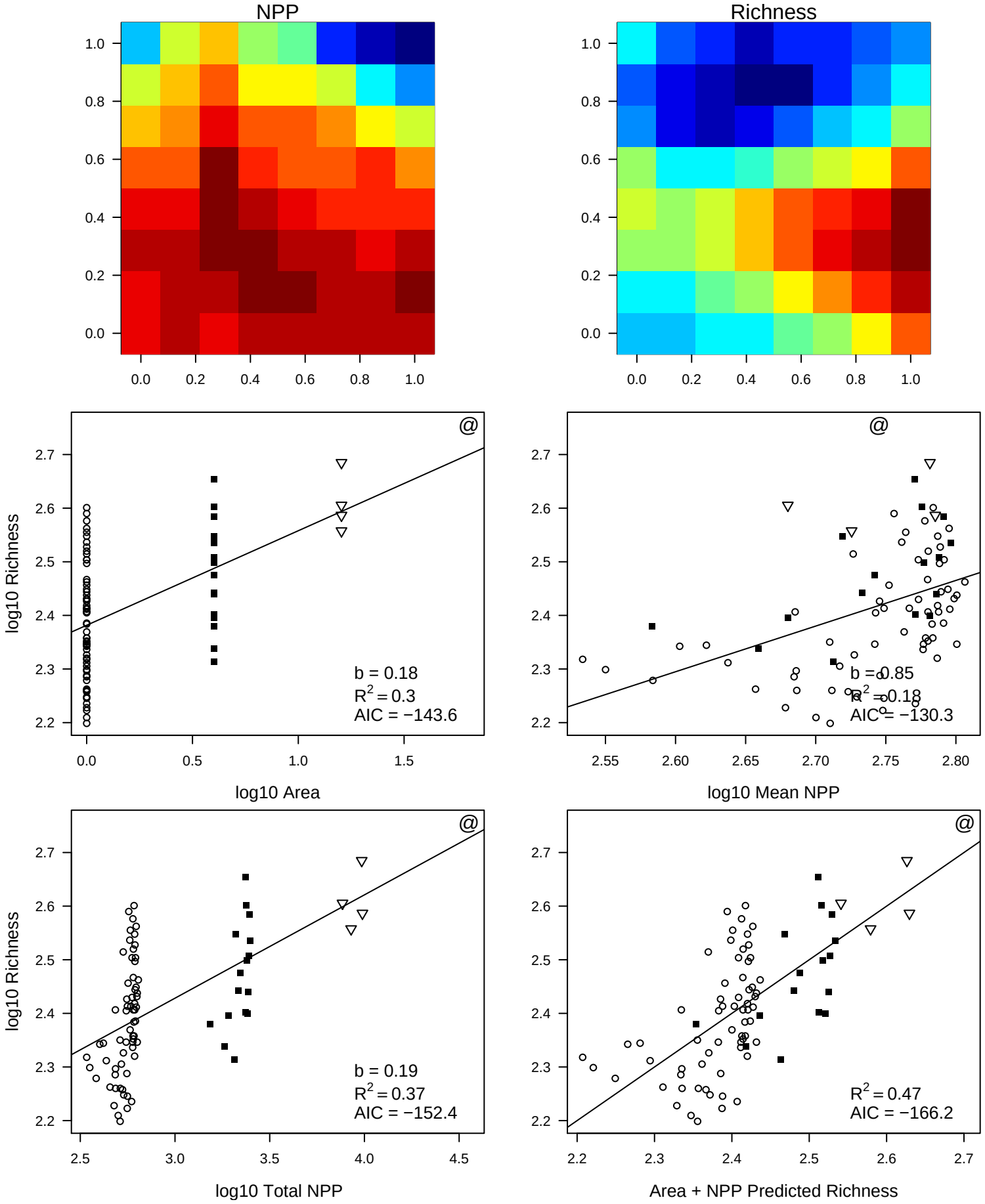
ID 15009


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.38
AIC = −244.9
log10 Mean NPP
b = 0.41
R2 = 0.16
AIC = −219.3
log10 Total NPP
b = 0.12
R2 = 0.46
AIC = −256.5
Area + NPP Predicted Richness
R2 = 0.54
AIC = −267.9

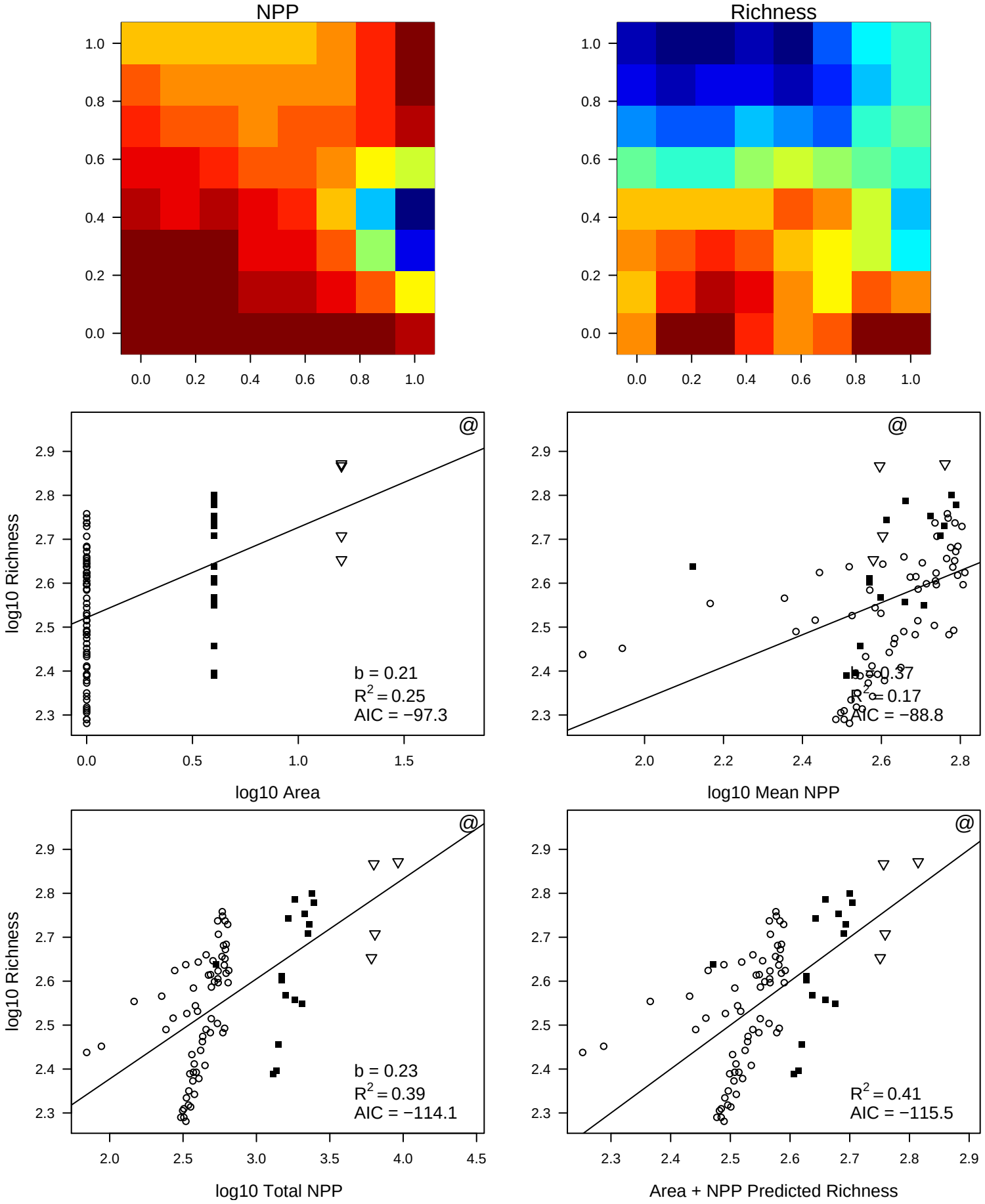
ID 25009


NPP
Richness
log10 Richness
log10 Area
b = 0.18
R2 = 0.57
AIC = −231.8
log10 Mean NPP
b = 0.042
R2 = 0.00073
AIC = −160.9
log10 Total NPP
b = 0.18
R2 = 0.56
AIC = −230.1
Area + NPP Predicted Richness
R2 = 0.57
AIC = −229.9

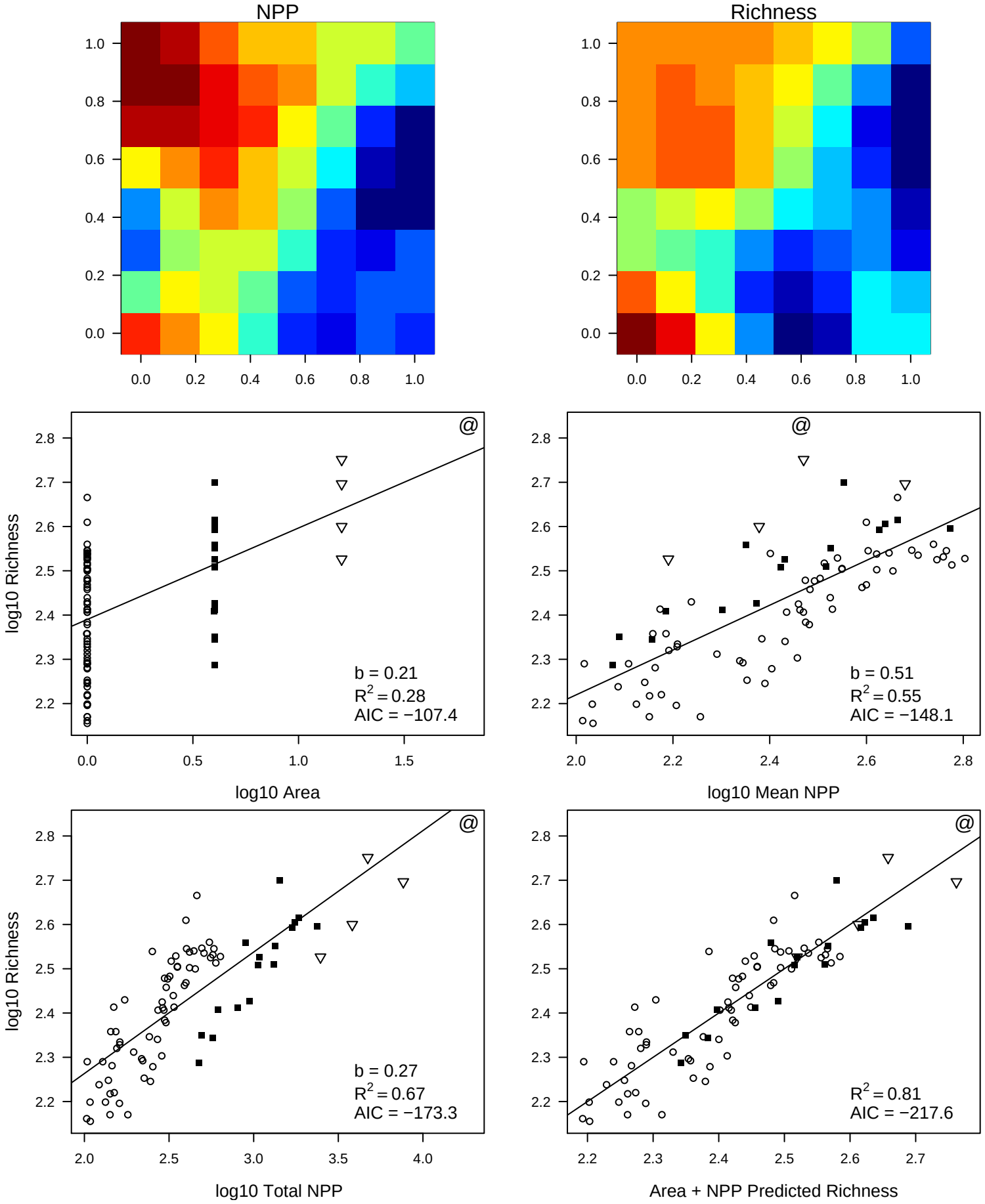
ID 26009


NPP
Richness
log10 Richness
log10 Area
b = 0.18
R2 = 0.3
AIC = −143.6
log10 Mean NPP
b = 0.85
R2 = 0.18
AIC = −130.3
log10 Total NPP
b = 0.19
R2 = 0.37
AIC = −152.4
Area + NPP Predicted Richness
R2 = 0.47
AIC = −166.2

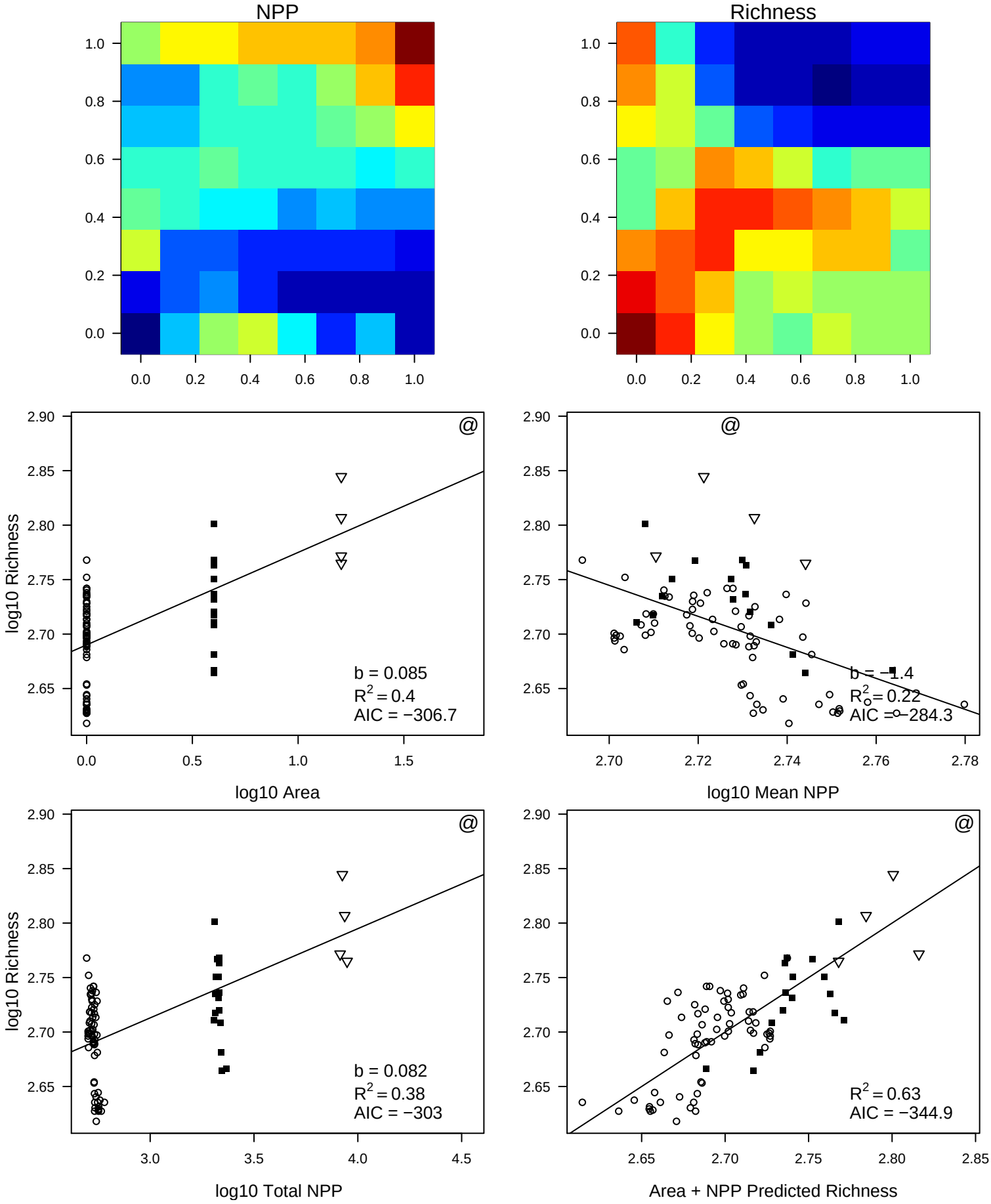
ID 27009


NPP
Richness
log10 Richness
log10 Area
b = 0.21
R2 = 0.25
AIC = −97.3
log10 Mean NPP
b = 0.37
R2 = 0.17
AIC = −88.8
log10 Total NPP
b = 0.23
R2 = 0.39
AIC = −114.1
Area + NPP Predicted Richness
R2 = 0.41
AIC = −115.5

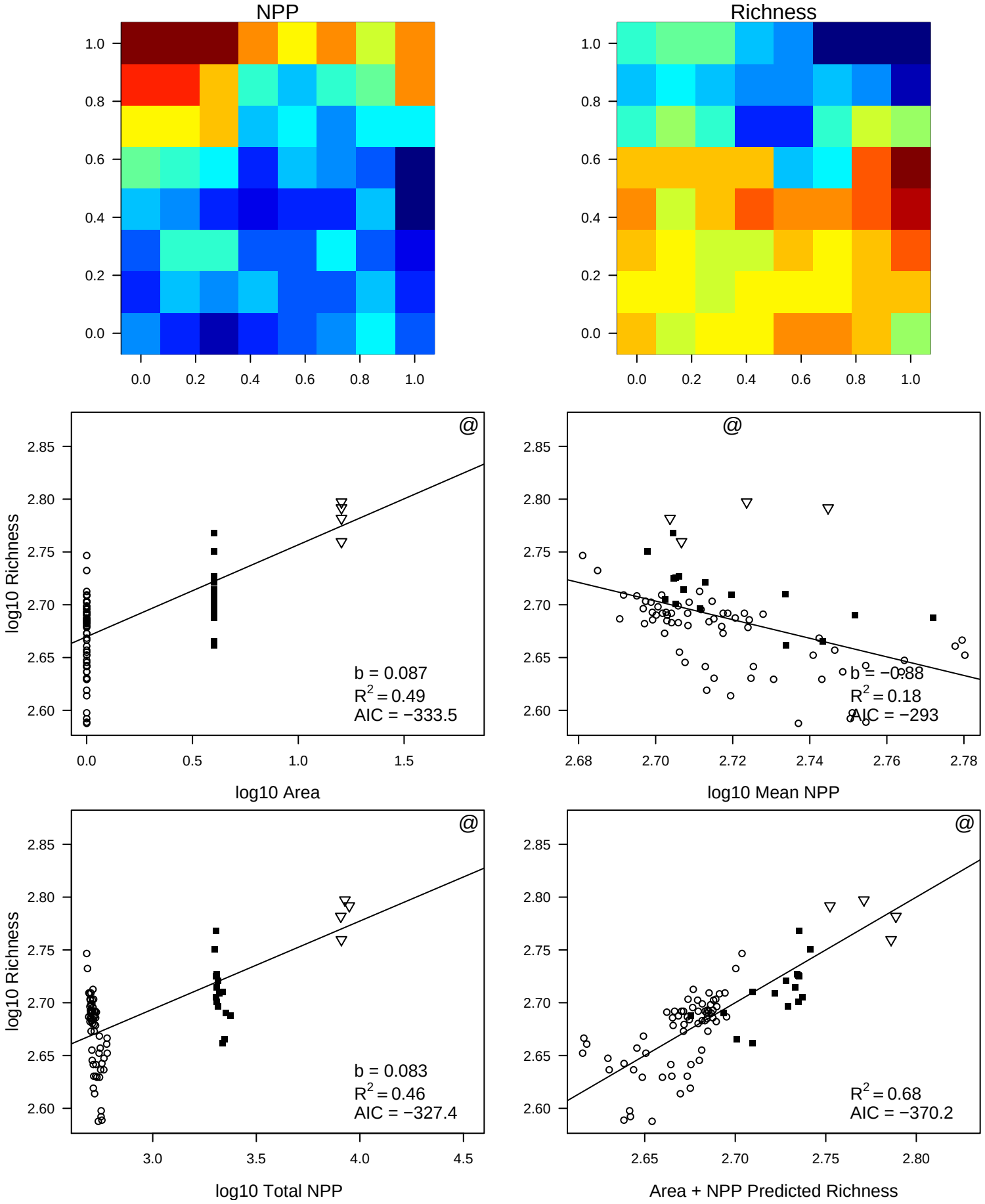
ID 28009


NPP
Richness
log10 Richness
log10 Area
b = 0.21
R2 = 0.28
AIC = −107.4
log10 Mean NPP
b = 0.51
R2 = 0.55
AIC = −148.1
log10 Total NPP
b = 0.27
R2 = 0.67
AIC = −173.3
Area + NPP Predicted Richness
R2 = 0.81
AIC = −217.6

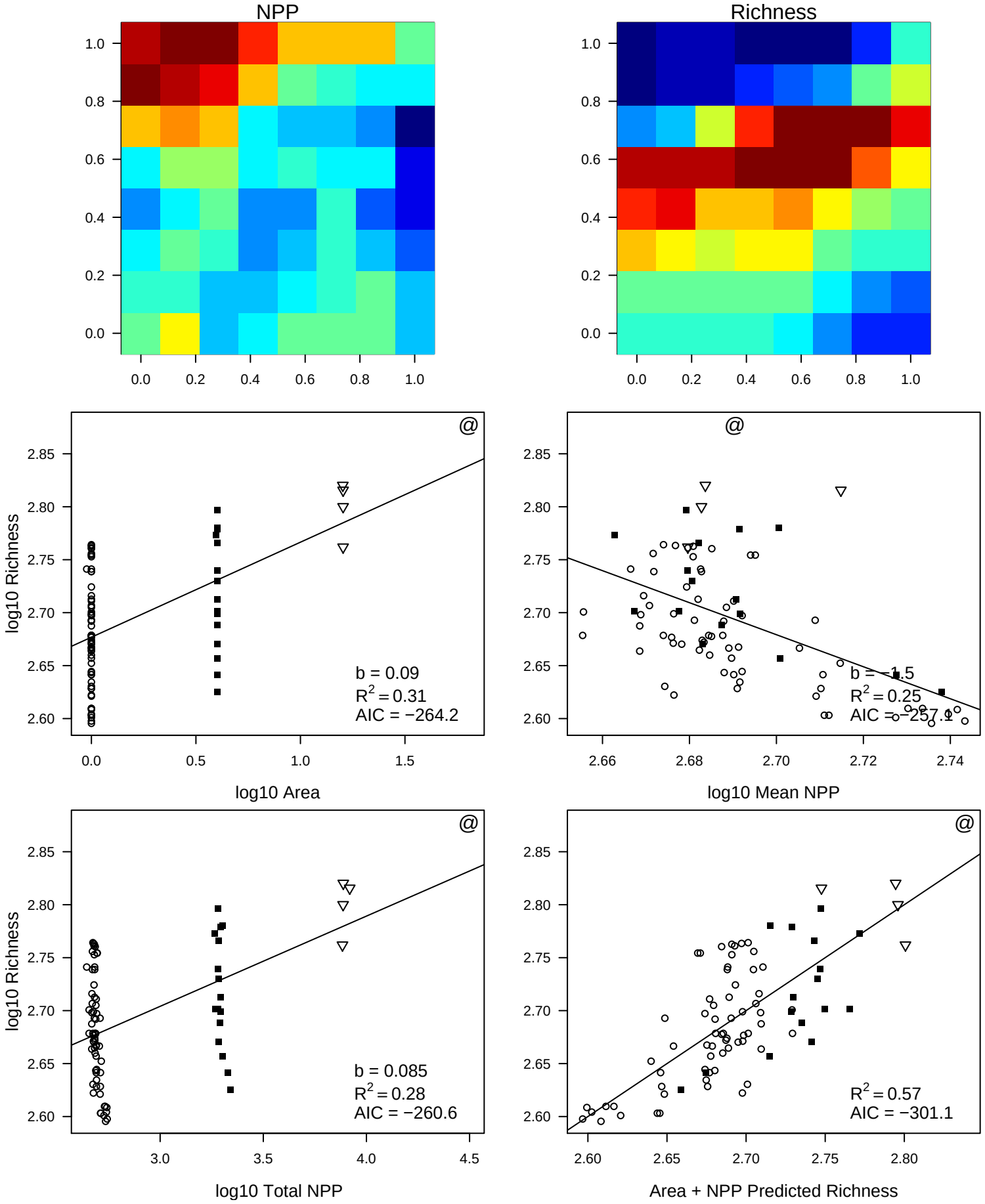
ID 14008


NPP
Richness
log10 Richness
log10 Area
b = 0.085
R2 = 0.4
AIC = −306.7
log10 Mean NPP
b = −1.4
R2 = 0.22
AIC = −284.3
log10 Total NPP
b = 0.082
R2 = 0.38
AIC = −303
Area + NPP Predicted Richness
R2 = 0.63
AIC = −344.9

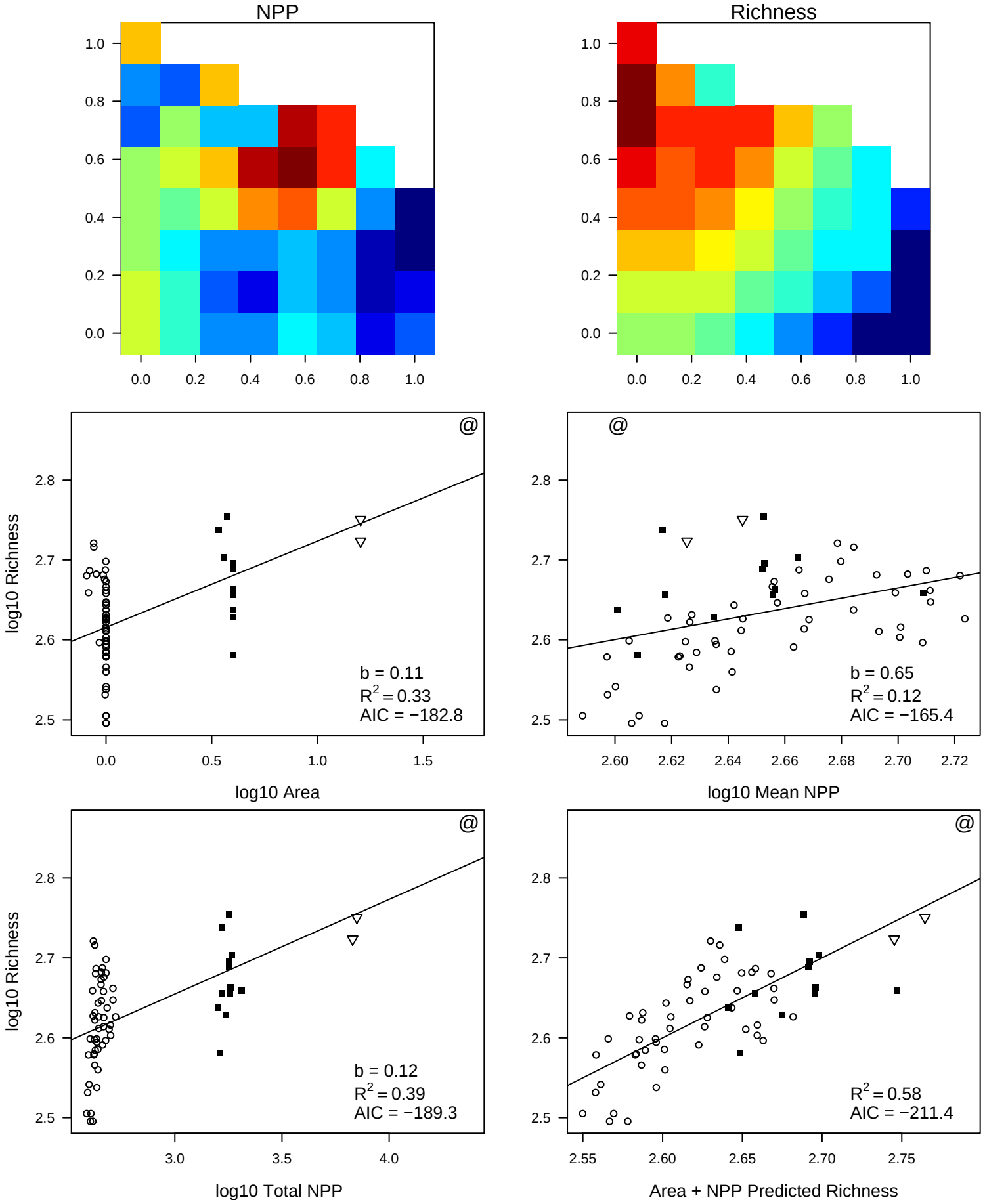
ID 15008


NPP
Richness
log10 Richness
log10 Area
b = 0.087
R2 = 0.49
AIC = −333.5
log10 Mean NPP
b = −0.88
R2 = 0.18
AIC = −293
log10 Total NPP
b = 0.083
R2 = 0.46
AIC = −327.4
Area + NPP Predicted Richness
R2 = 0.68
AIC = −370.2

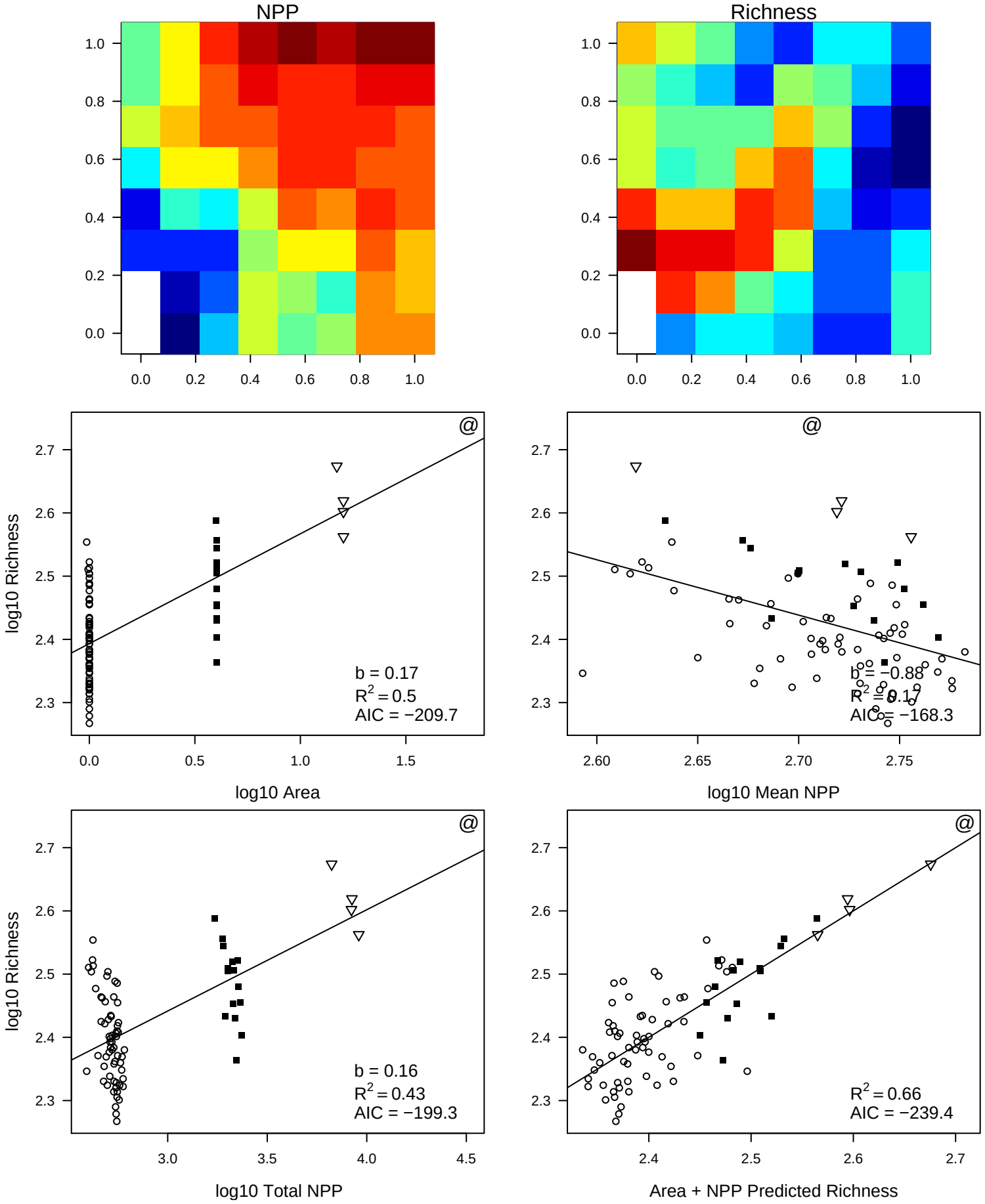
ID 16008


NPP
Richness
log10 Richness
log10 Area
b = 0.09
R2 = 0.31
AIC = −264.2
log10 Mean NPP
b = −1.5
R2 = 0.25
AIC = −257.1
log10 Total NPP
b = 0.085
R2 = 0.28
AIC = −260.6
Area + NPP Predicted Richness
R2 = 0.57
AIC = −301.1

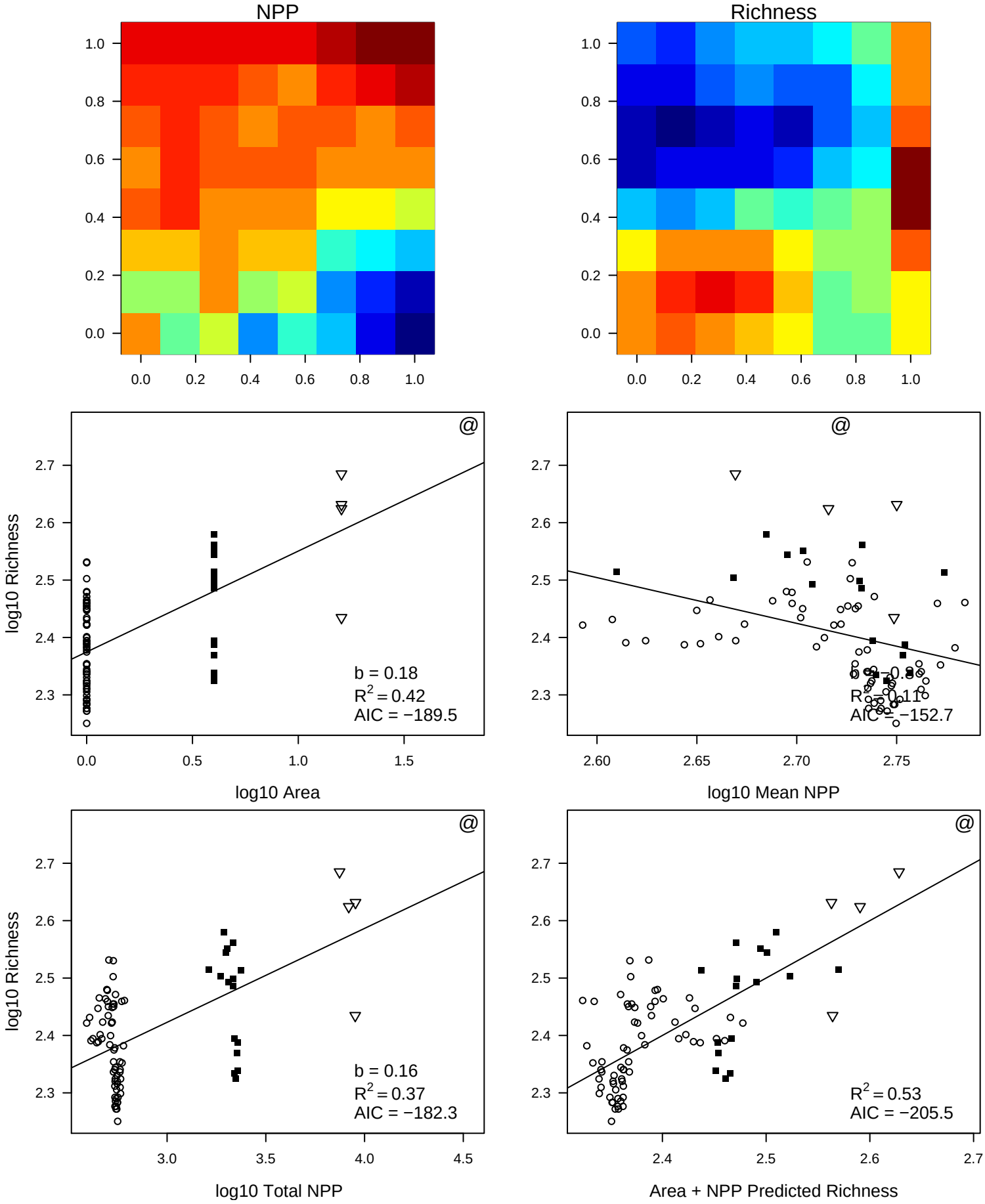
ID 17008


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.33
AIC = −182.8
log10 Mean NPP
b = 0.65
R2 = 0.12
AIC = −165.4
log10 Total NPP
b = 0.12
R2 = 0.39
AIC = −189.3
Area + NPP Predicted Richness
R2 = 0.58
AIC = −211.4

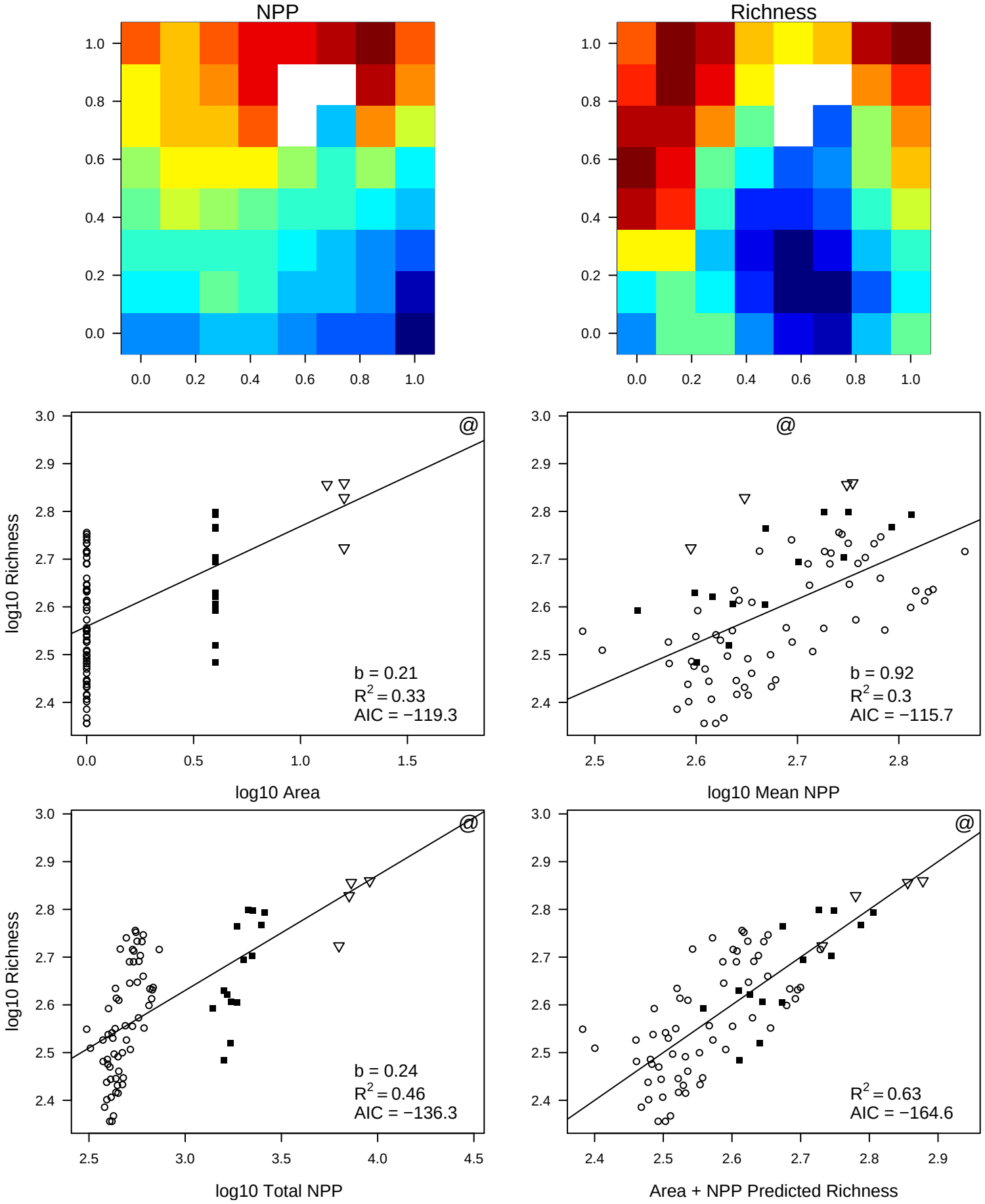
ID 25008


NPP
Richness
log10 Richness
log10 Area
b = 0.17
R2 = 0.5
AIC = −209.7
log10 Mean NPP
b = −0.88
R2 = 0.17
AIC = −168.3
log10 Total NPP
b = 0.16
R2 = 0.43
AIC = −199.3
Area + NPP Predicted Richness
R2 = 0.66
AIC = −239.4

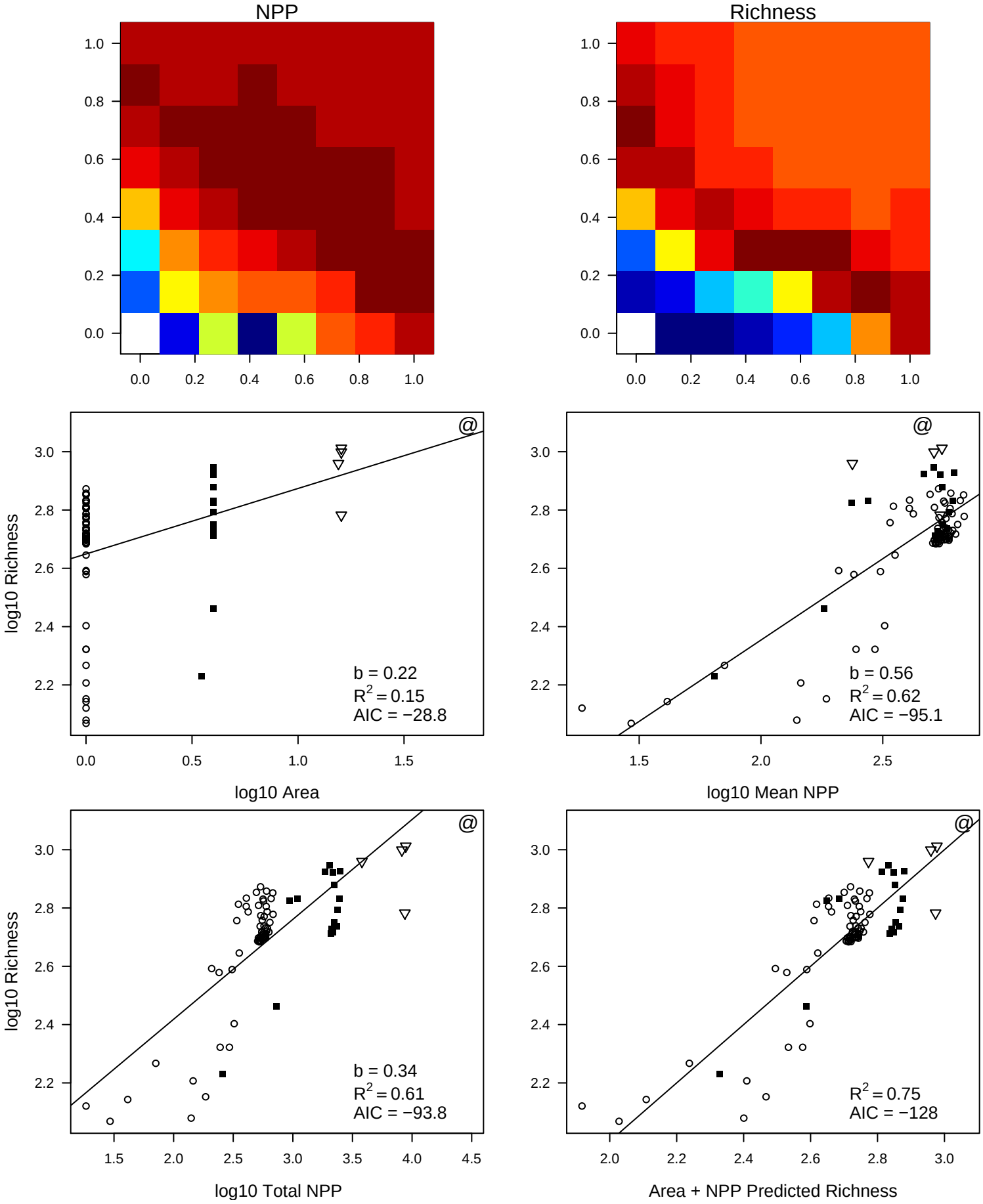
ID 26008


NPP
Richness
log10 Richness
log10 Area
b = 0.18
R2 = 0.42
AIC = −189.5
log10 Mean NPP
R2 = 0.11
AIC = −152.7
log10 Total NPP
b = 0.16
R2 = 0.37
AIC = −182.3
Area + NPP Predicted Richness
R2 = 0.53
AIC = −205.5

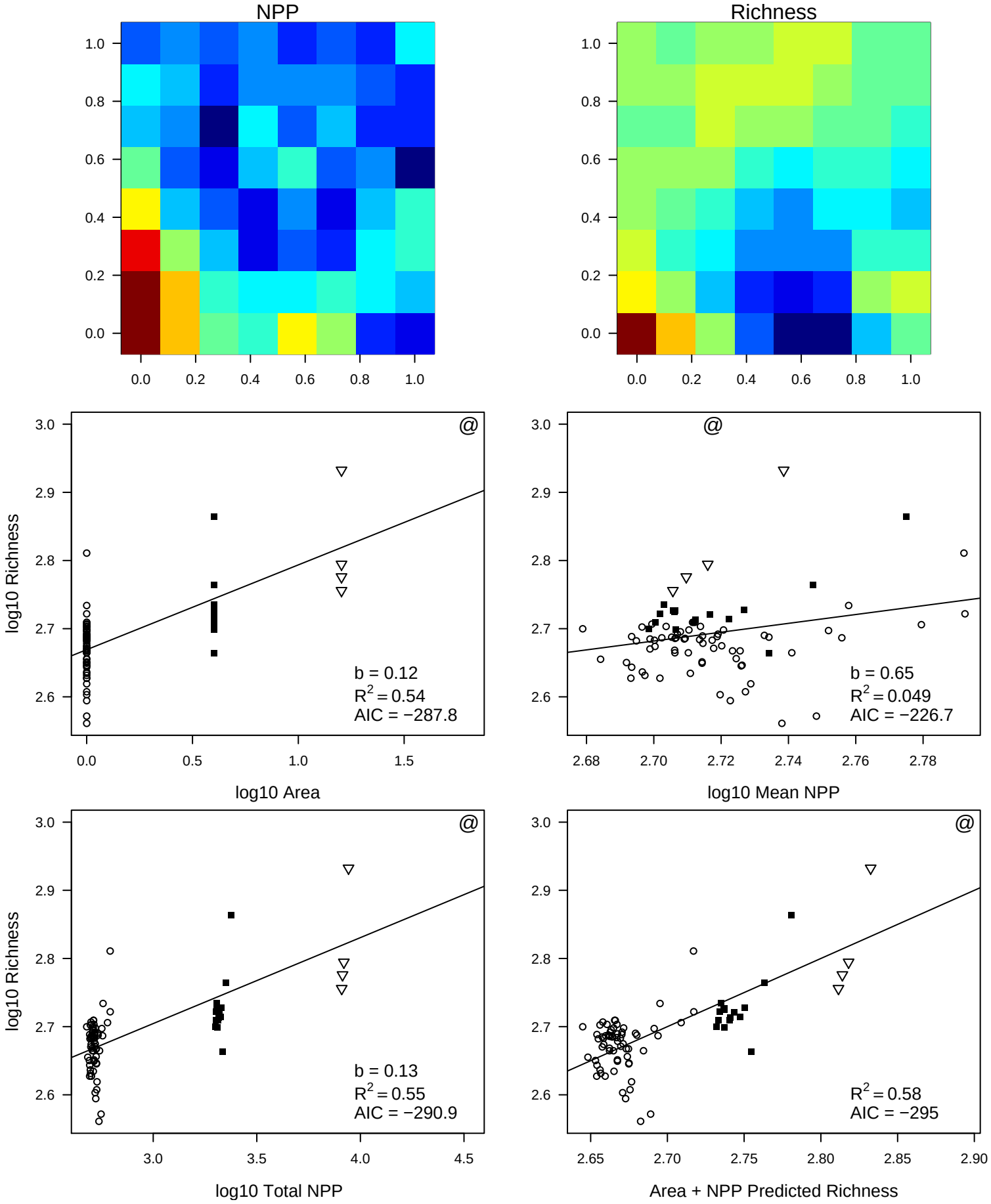
ID 27008


NPP
Richness
log10 Richness
log10 Area
b = 0.21
R2 = 0.33
AIC = −119.3
log10 Mean NPP
b = 0.92
R2 = 0.3
AIC = −115.7
log10 Richness
log10 Total NPP
b = 0.24
R2 = 0.46
AIC = −136.3
Area + NPP Predicted Richness
R2 = 0.63
AIC = −164.6

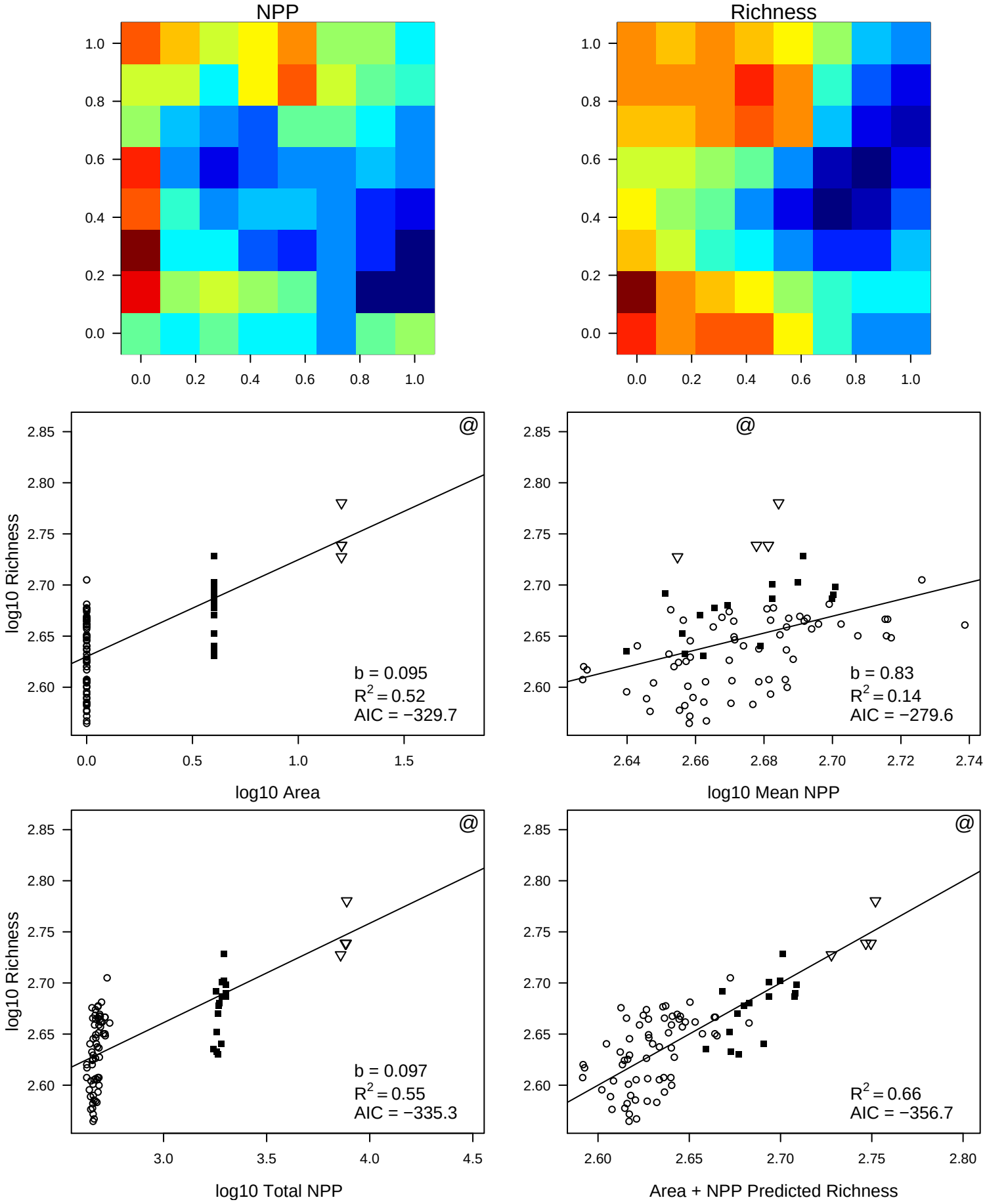
ID 14007


NPP
Richness
log10 Richness
log10 Area
b = 0.22
R2 = 0.15
AIC = −28.8
log10 Mean NPP
b = 0.56
R2 = 0.62
AIC = −95.1
log10 Total NPP
b = 0.34
R2 = 0.61
AIC = −93.8
Area + NPP Predicted Richness
R2 = 0.75
AIC = −128

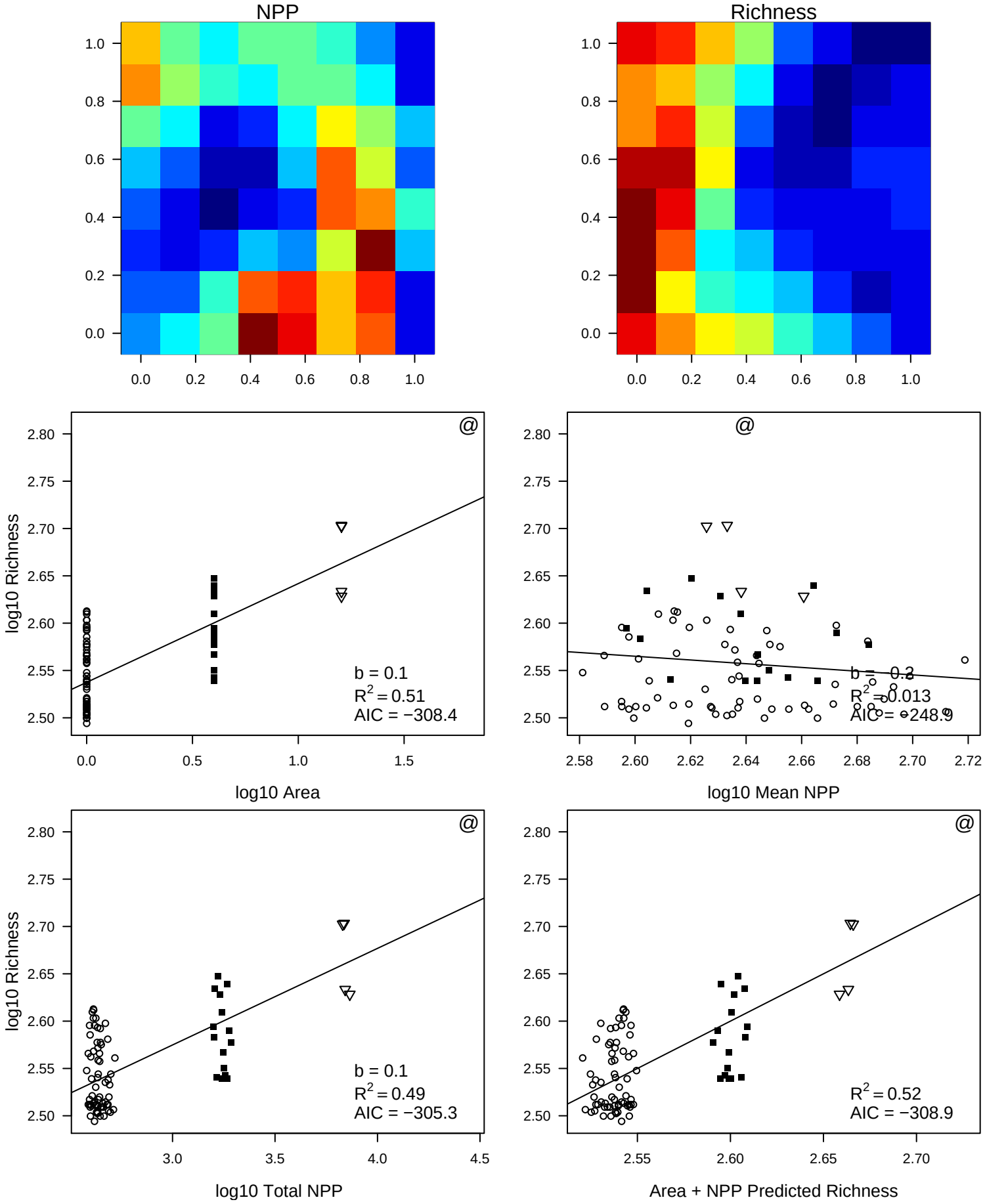
ID 15007


NPP
Richness
log10 Richness
log10 Area
b = 0.12
R2 = 0.54
AIC = −287.8
log10 Mean NPP
b = 0.65
R2 = 0.049
AIC = −226.7
log10 Total NPP
b = 0.13
R2 = 0.55
AIC = −290.9
Area + NPP Predicted Richness
R2 = 0.58
AIC = −295

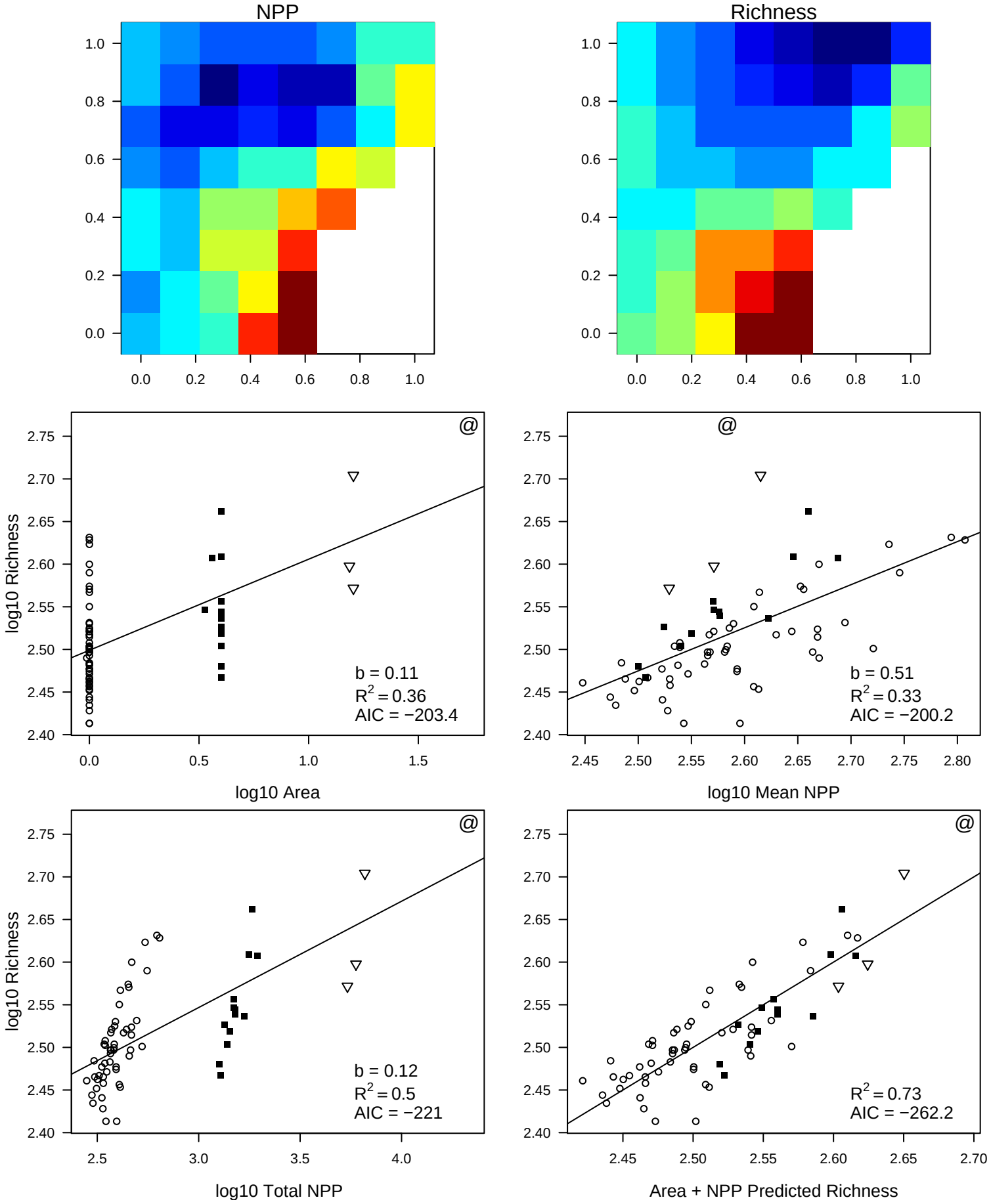
ID 16007


NPP
Richness
log10 Richness
log10 Area
b = 0.095
R2 = 0.52
AIC = −329.7
log10 Mean NPP
b = 0.83
R2 = 0.14
AIC = −279.6
log10 Total NPP
b = 0.097
R2 = 0.55
AIC = −335.3
Area + NPP Predicted Richness
R2 = 0.66
AIC = −356.7

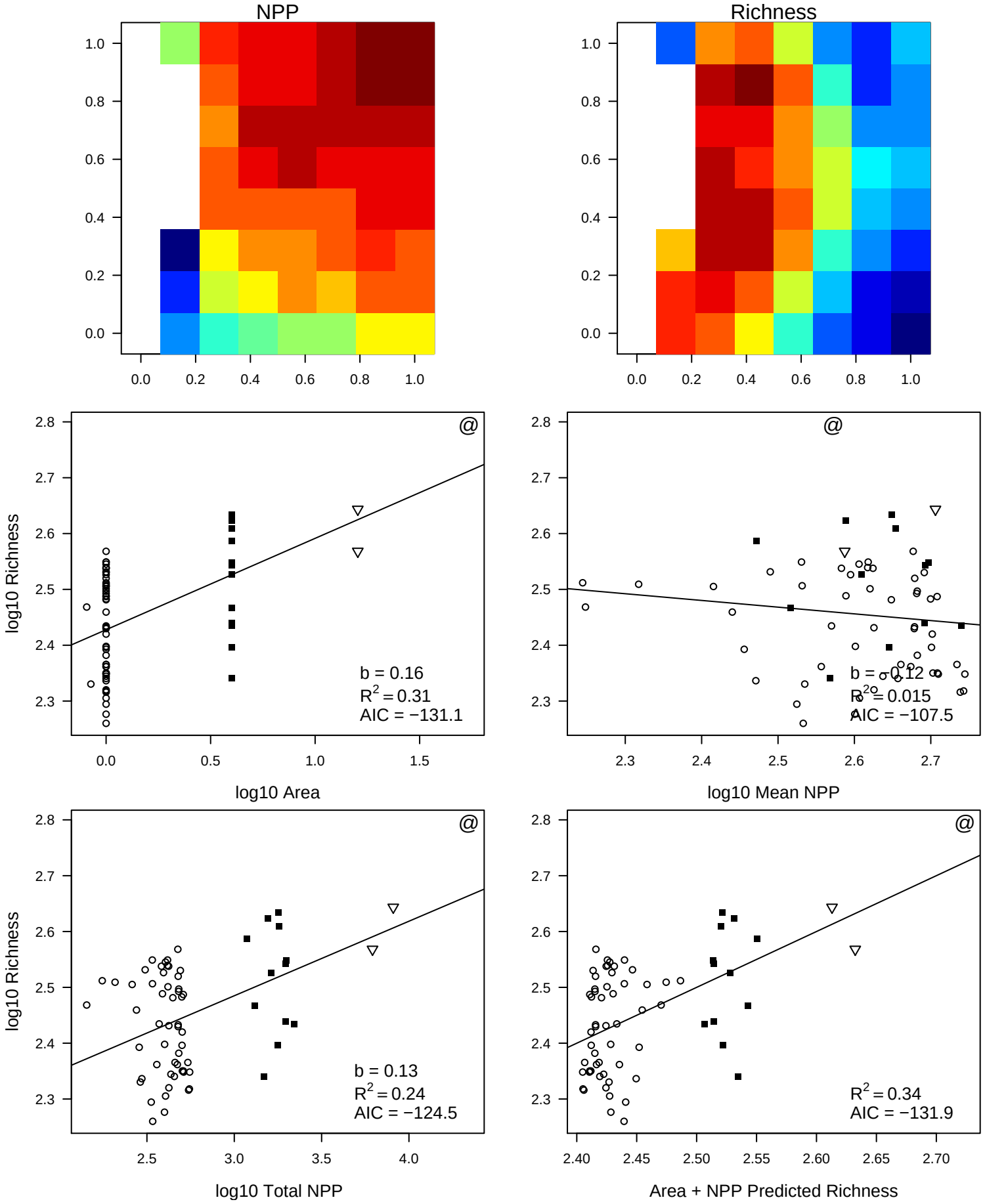
ID 17007


NPP
Richness
log10 Richness
log10 Area
b = 0.1
R2 = 0.51
AIC = −308.4
log10 Mean NPP
b = −0.2
R2 = 0.013
AIC = −248.9
log10 Total NPP
b = 0.1
R2 = 0.49
AIC = −305.3
Area + NPP Predicted Richness
R2 = 0.52
AIC = −308.9

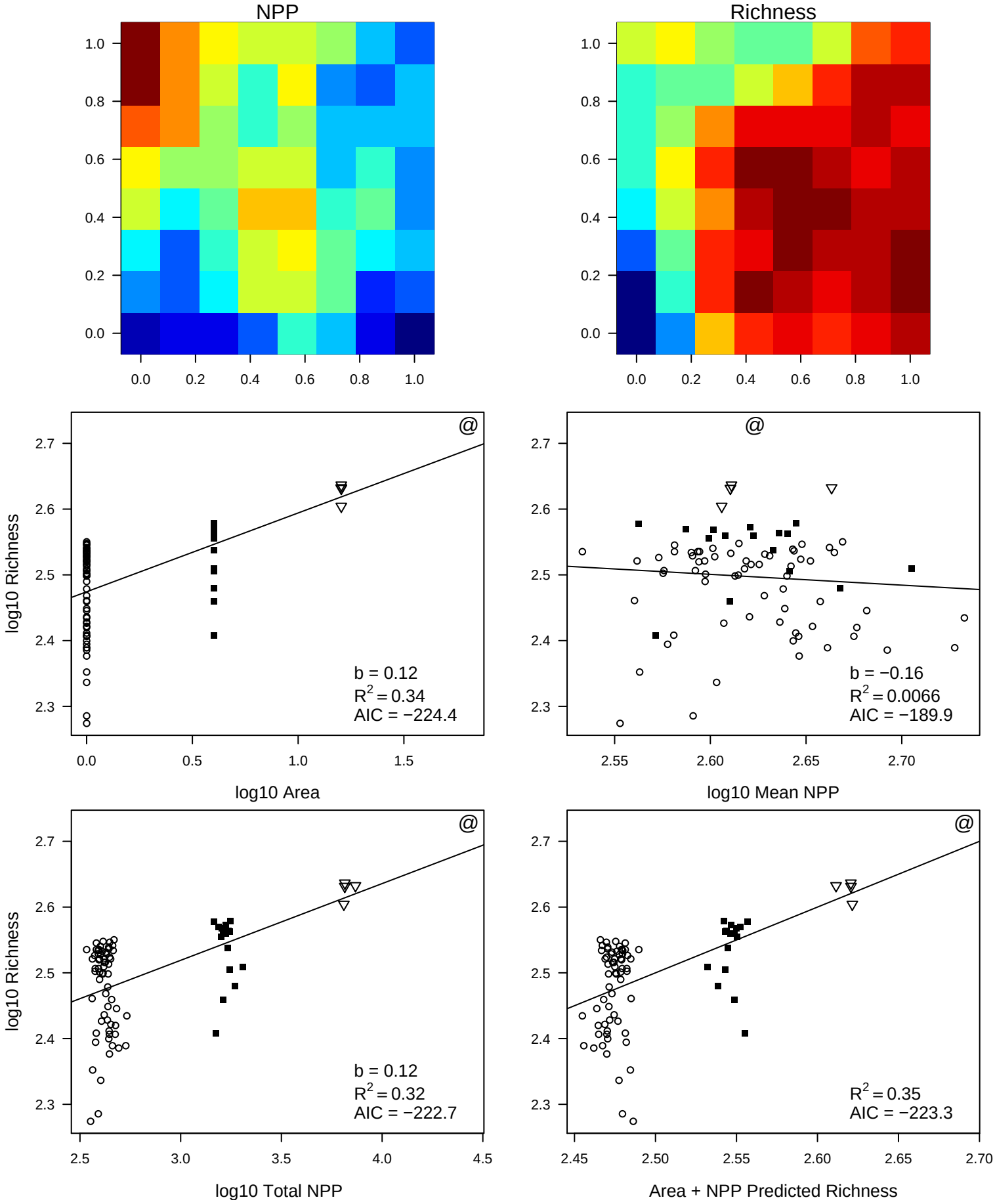
ID 18007


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.36
AIC = −203.4
log10 Mean NPP
b = 0.51
R2 = 0.33
AIC = −200.2
log10 Total NPP
b = 0.12
R2 = 0.5
AIC = −221
Area + NPP Predicted Richness
R2 = 0.73
AIC = −262.2

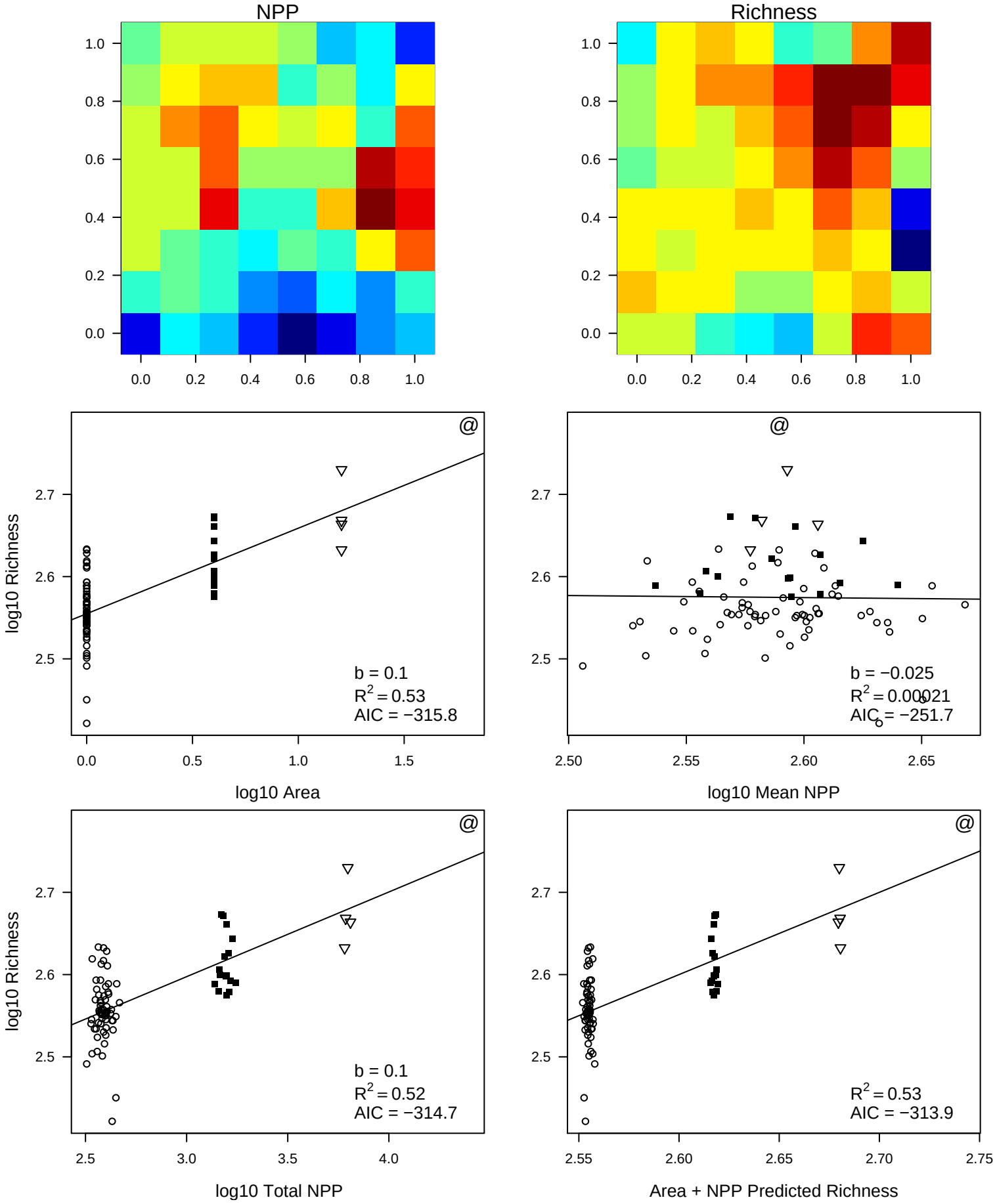
ID 25007


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.31
AIC = −131.1
log10 Mean NPP
b = −0.12
R2 = 0.015
AIC = −107.5
log10 Total NPP
b = 0.13
R2 = 0.24
AIC = −124.5
Area + NPP Predicted Richness
R2 = 0.34
AIC = −131.9

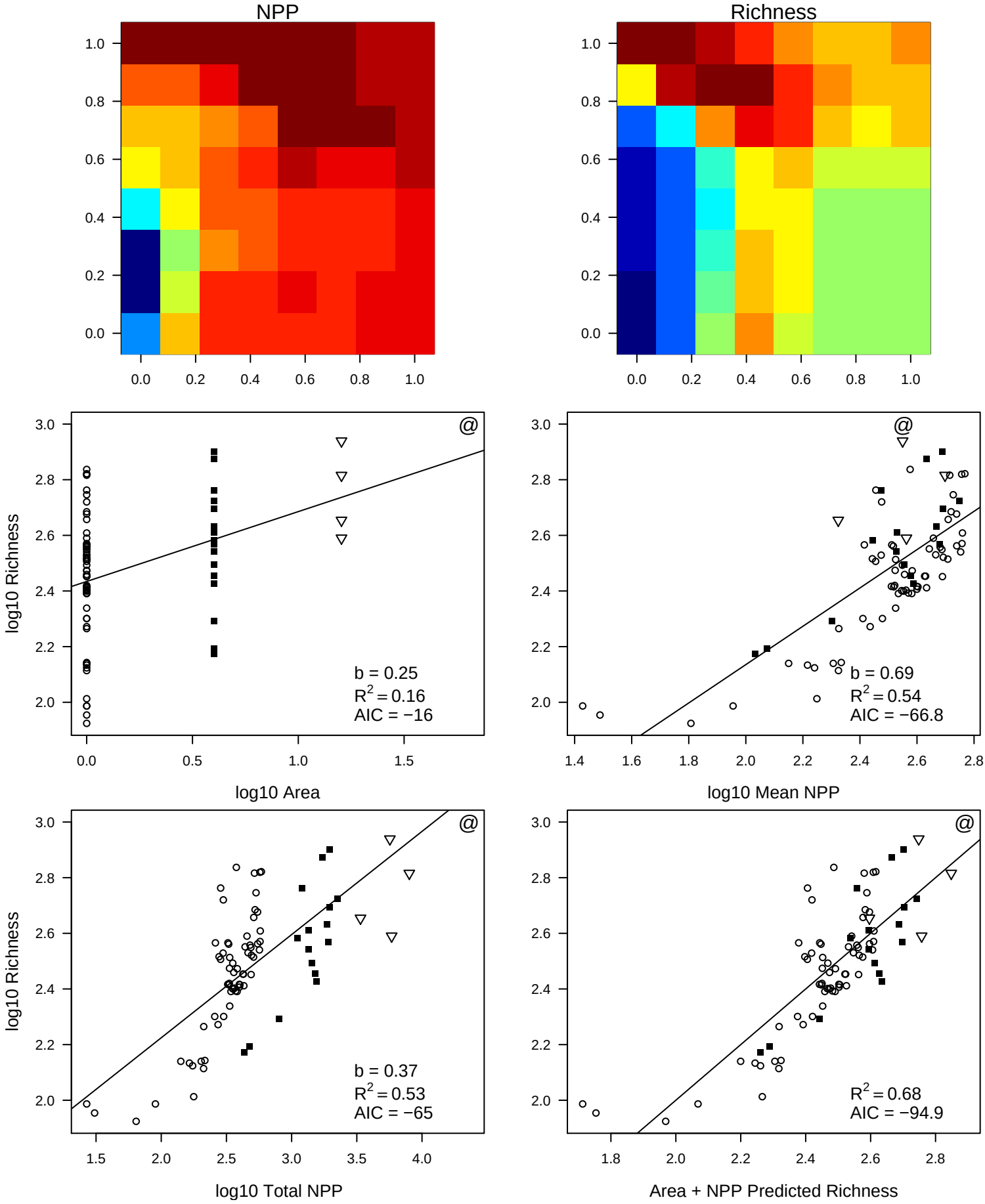
ID 26007


NPP
Richness
log10 Richness
log10 Area
b = 0.12
R2 = 0.34
AIC = −224.4
log10 Mean NPP
b = −0.16
R2 = 0.0066
AIC = −189.9
log10 Total NPP
b = 0.12
R2 = 0.32
AIC = −222.7
Area + NPP Predicted Richness
R2 = 0.35
AIC = −223.3

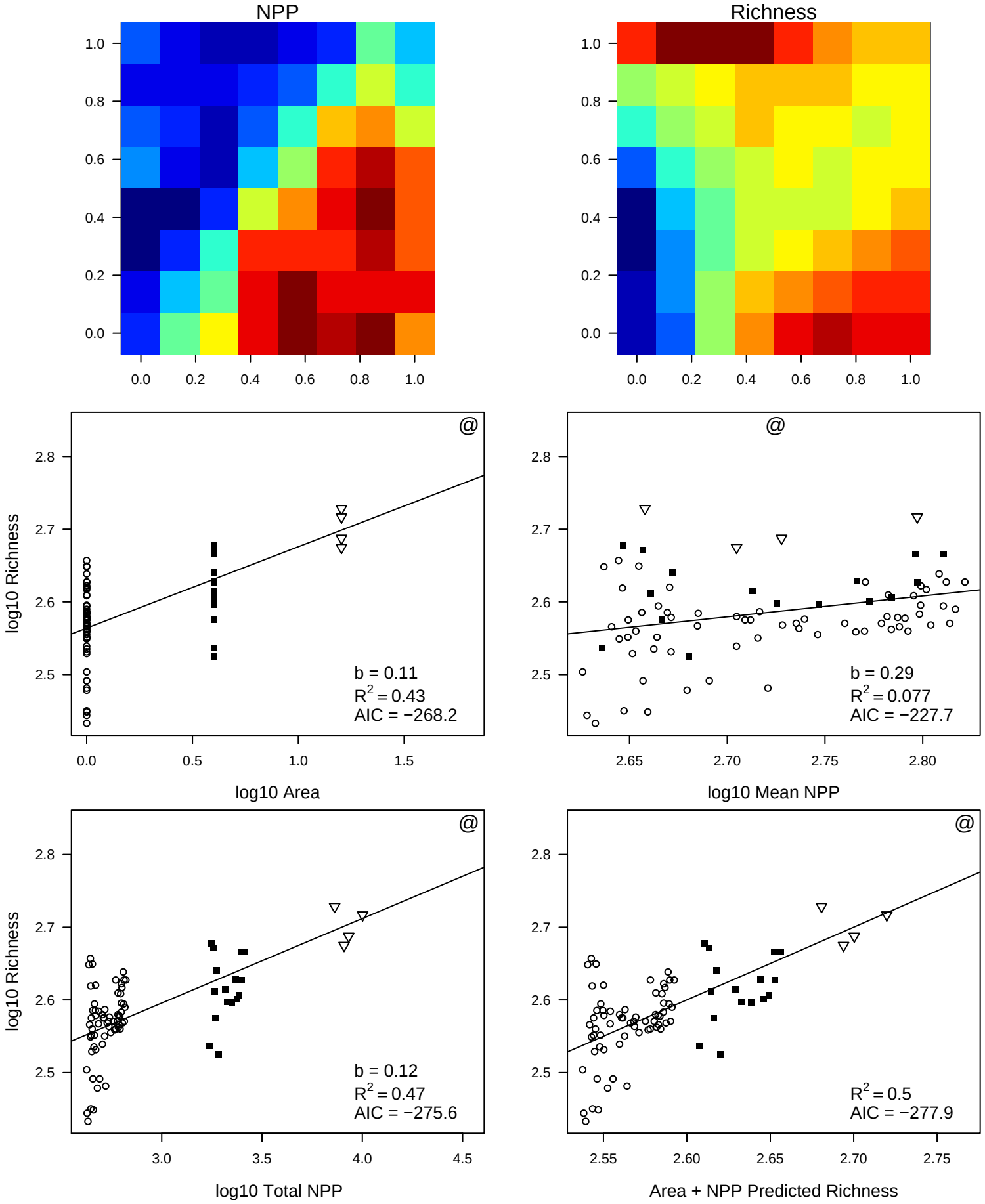
ID 27007


NPP
Richness
log10 Richness
log10 Area
b = 0.1
R2 = 0.53
AIC = −315.8
log10 Mean NPP
b = −0.025
R2 = 0.00021
AIC = −251.7
log10 Total NPP
b = 0.1
R2 = 0.52
AIC = −314.7
Area + NPP Predicted Richness
R2 = 0.53
AIC = −313.9

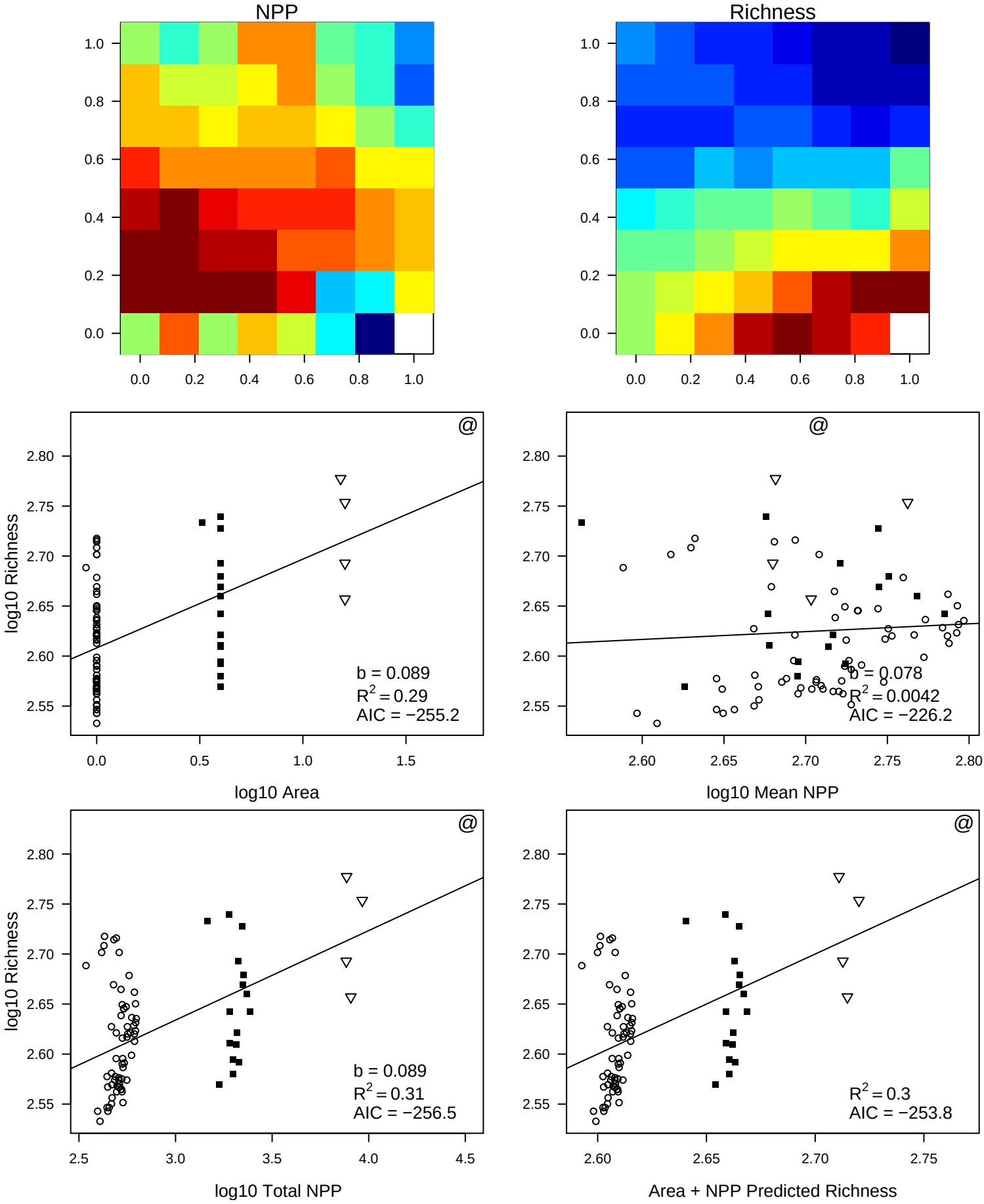
ID 15006


NPP
Richness
log10 Richness
log10 Area
b = 0.25
R2 = 0.16
AIC = −16
log10 Mean NPP
b = 0.69
R2 = 0.54
AIC = −66.8
log10 Total NPP
b = 0.37
R2 = 0.53
AIC = −65
Area + NPP Predicted Richness
R2 = 0.68
AIC = −94.9

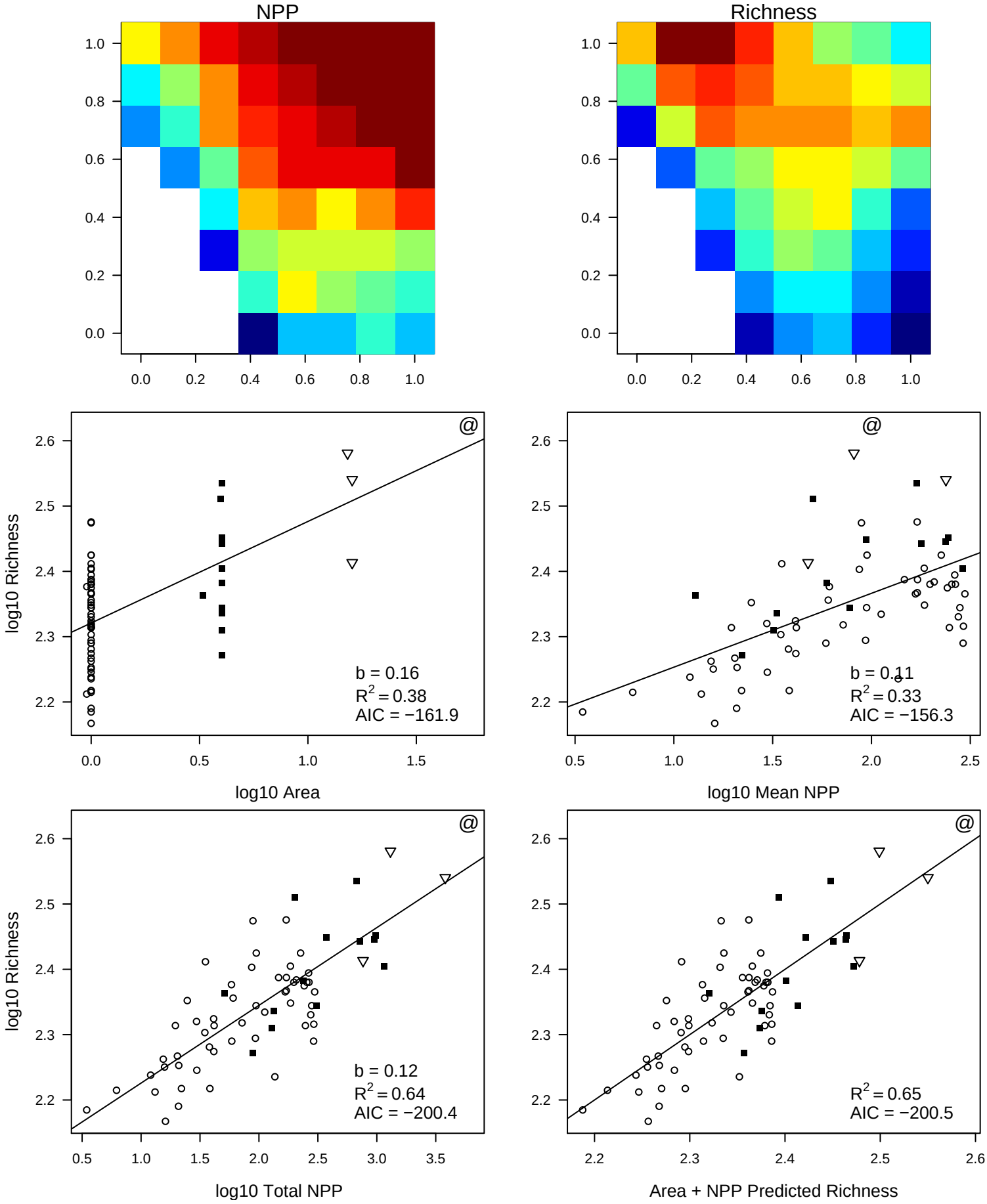
ID 16006


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.43
AIC = −268.2
log10 Mean NPP
b = 0.29
R2 = 0.077
AIC = −227.7
log10 Total NPP
b = 0.12
R2 = 0.47
AIC = −275.6
Area + NPP Predicted Richness
R2 = 0.5
AIC = −277.9

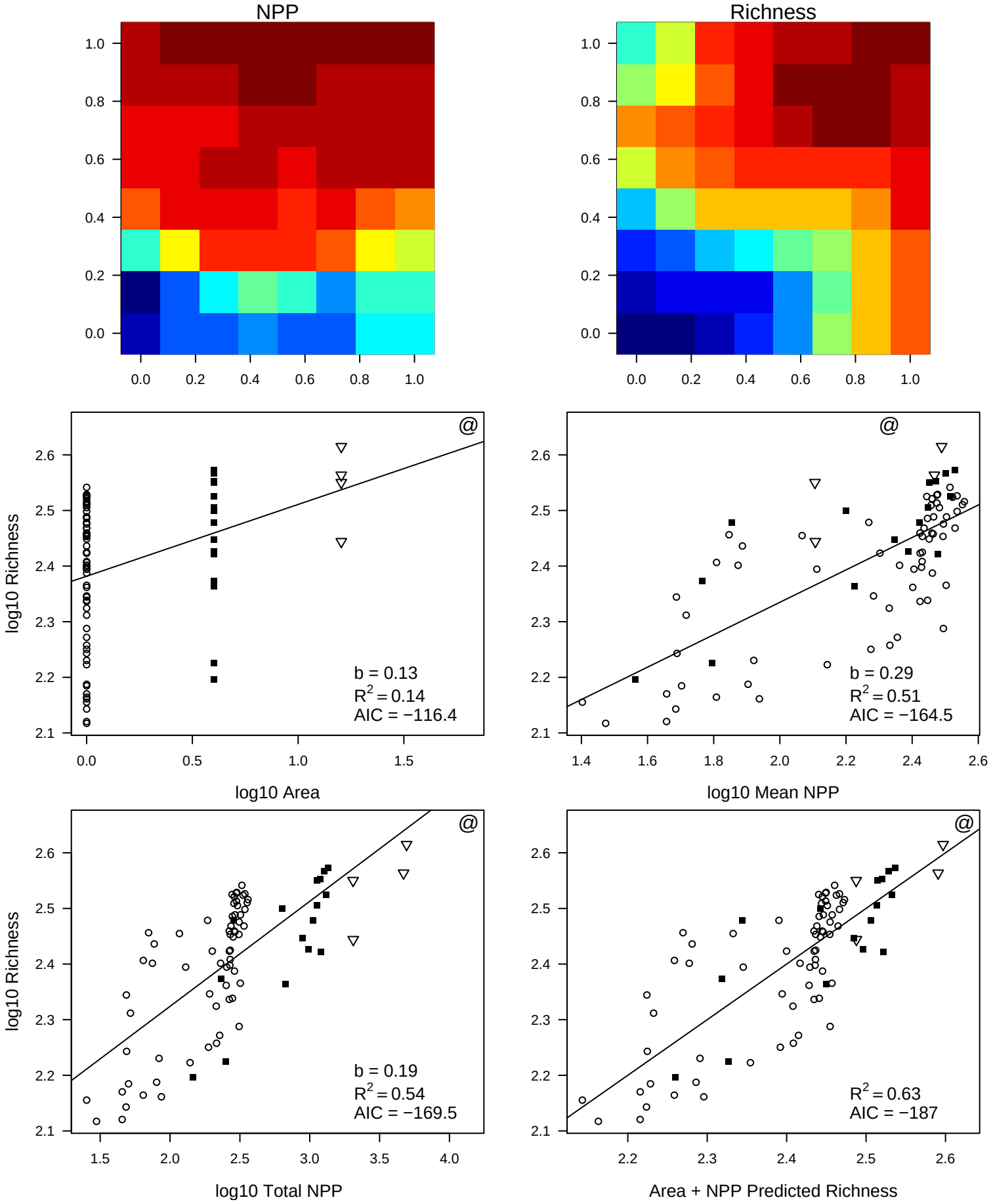
ID 17006


NPP
Richness
log10 Richness
log10 Area
b = 0.089
$R^2 = 0.29$
AIC = −255.2
log10 Mean NPP
b = 0.078
$R^2 = 0.0042$
AIC = −226.2
log10 Total NPP
b = 0.089
$R^2 = 0.31$
AIC = −256.5
Area + NPP Predicted Richness
$R^2 = 0.3$
AIC = −253.8

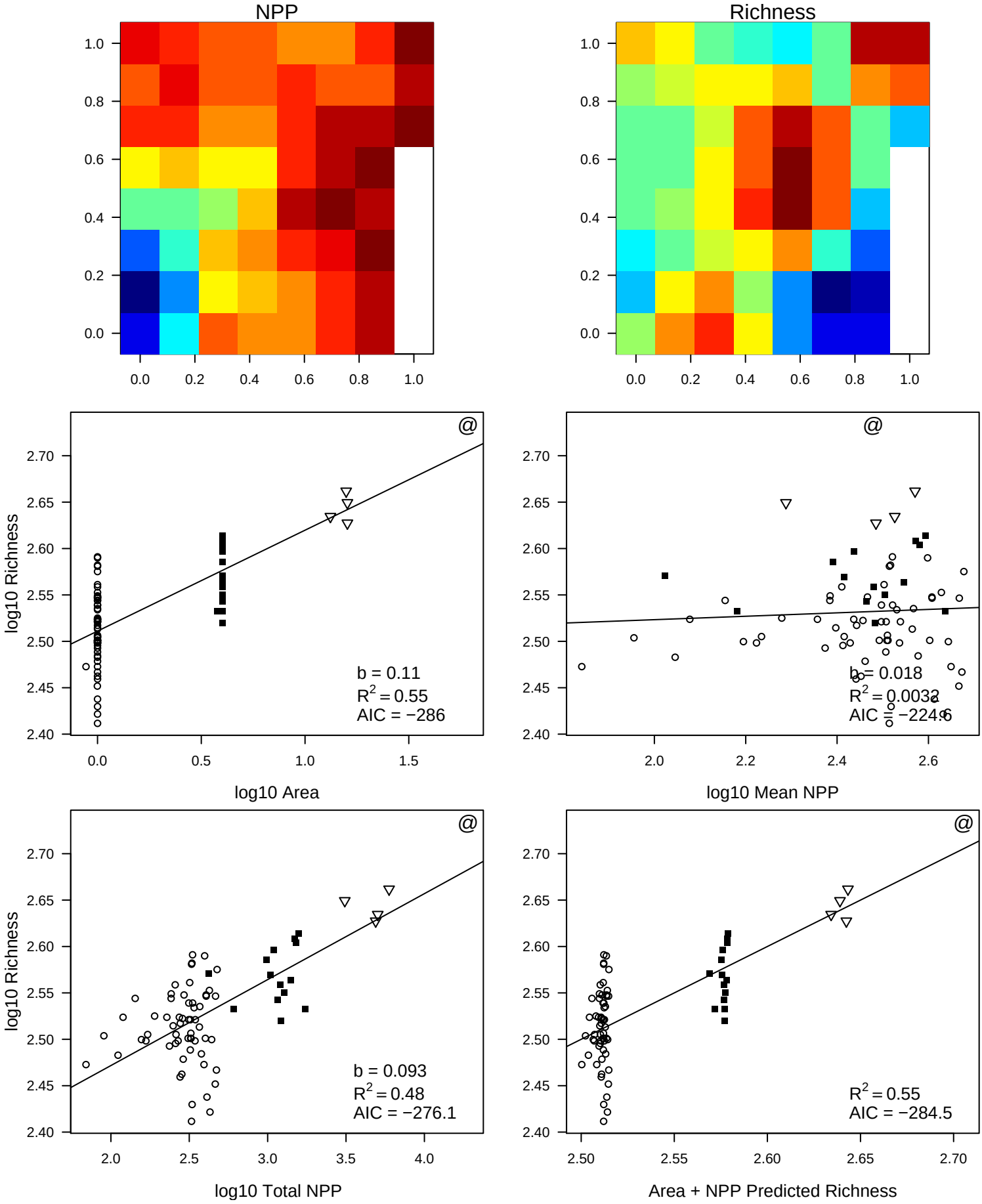
ID 25006


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.38
AIC = −161.9
log10 Mean NPP
b = 0.11
R2 = 0.33
AIC = −156.3
log10 Total NPP
b = 0.12
R2 = 0.64
AIC = −200.4
Area + NPP Predicted Richness
R2 = 0.65
AIC = −200.5

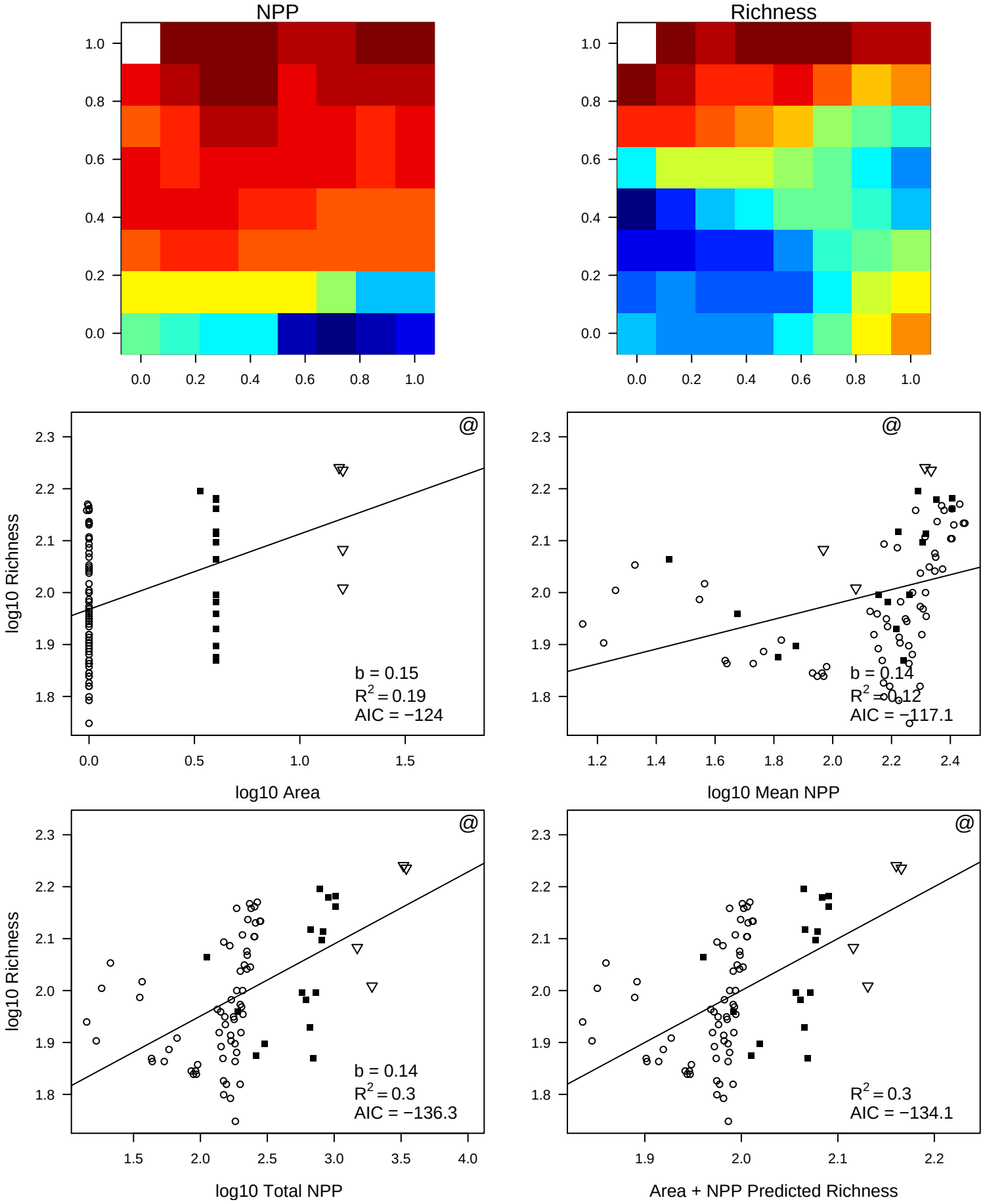
ID 26006


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.14
AIC = −116.4
log10 Mean NPP
b = 0.29
R2 = 0.51
AIC = −164.5
log10 Total NPP
b = 0.19
R2 = 0.54
AIC = −169.5
Area + NPP Predicted Richness
R2 = 0.63
AIC = −187

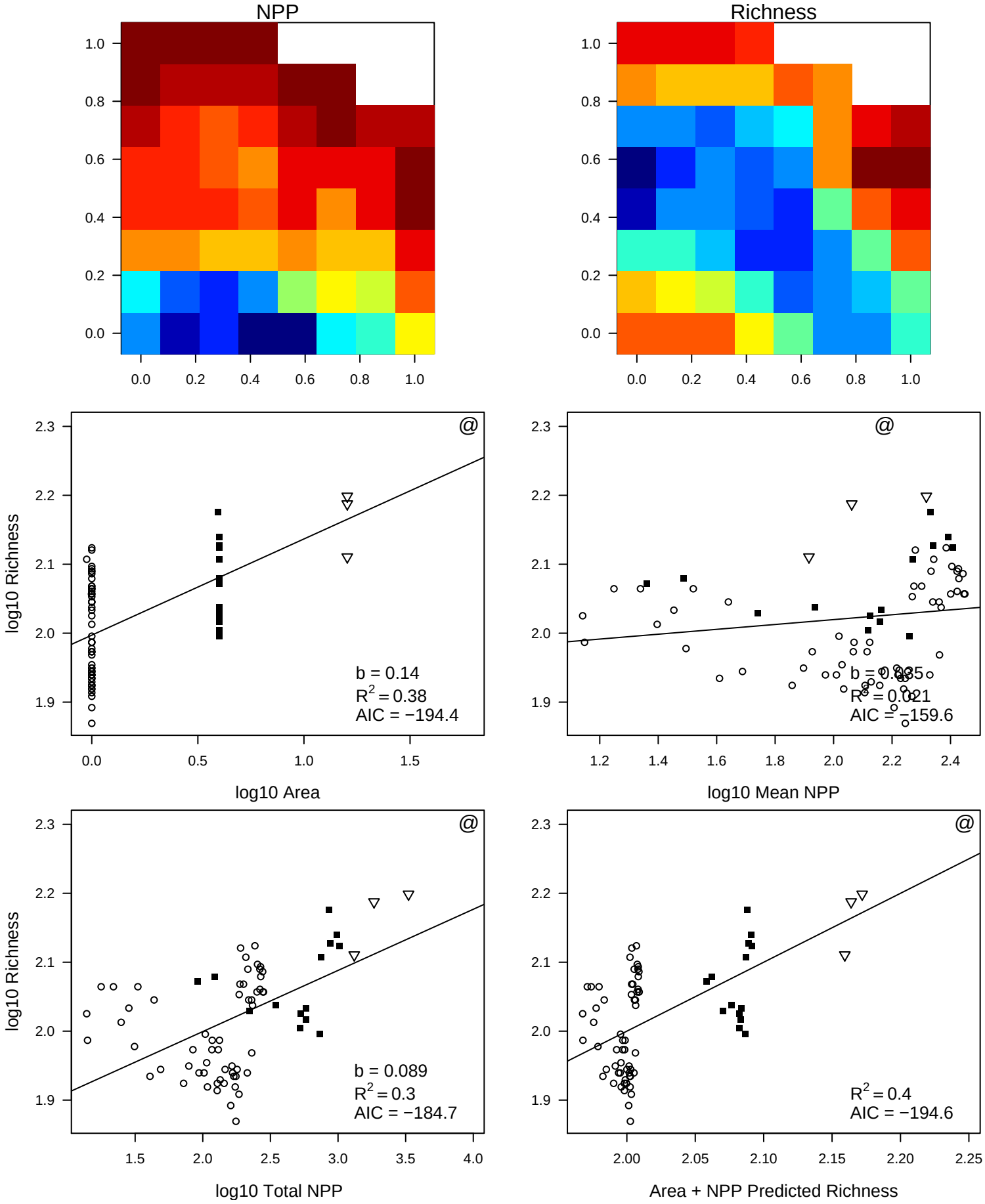
ID 27006


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.55
AIC = −286
log10 Mean NPP
b = 0.018
R2 = 0.0032
AIC = −224.6
log10 Total NPP
b = 0.093
R2 = 0.48
AIC = −276.1
Area + NPP Predicted Richness
R2 = 0.55
AIC = −284.5

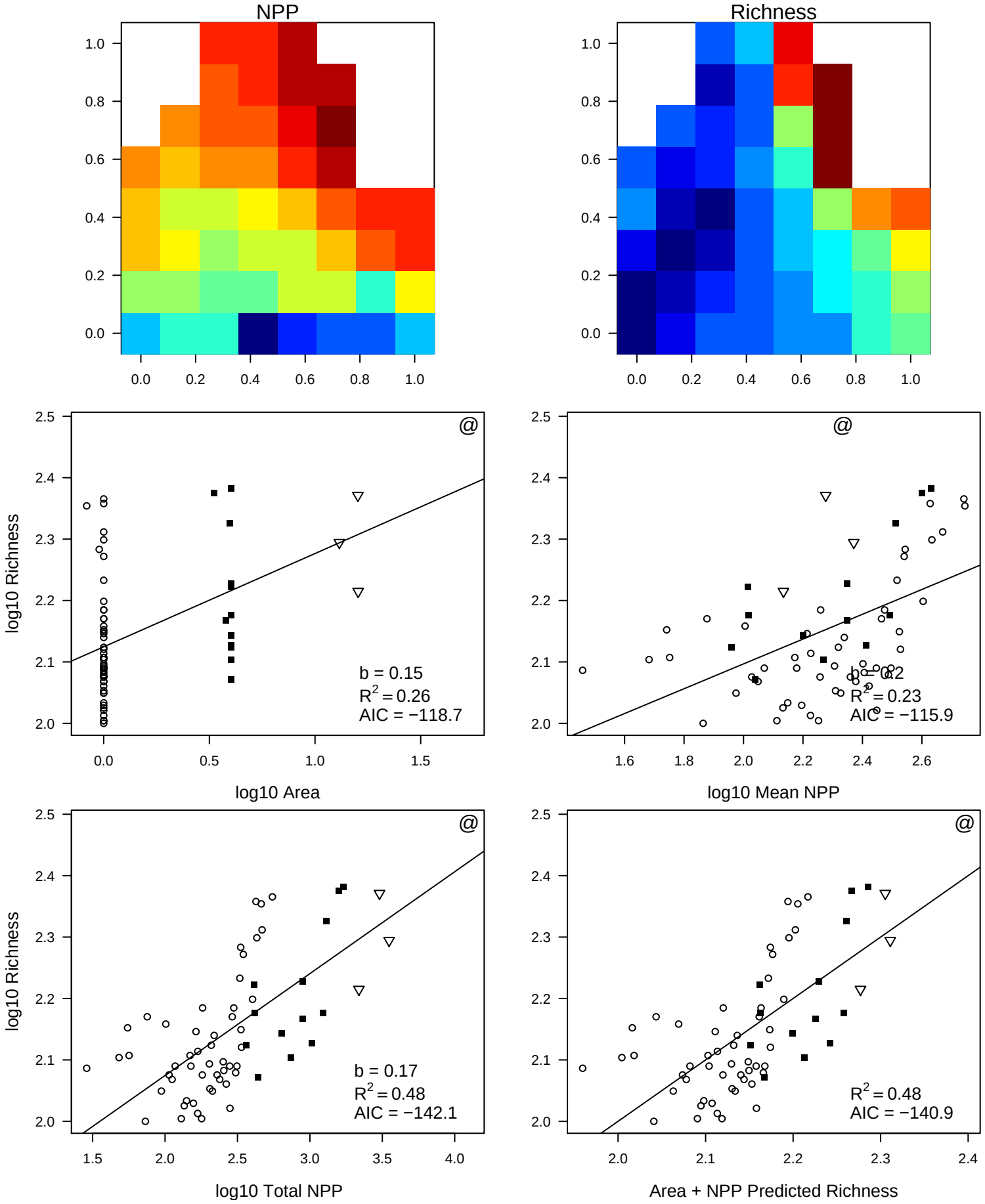
ID 39006


NPP
Richness
log10 Richness
log10 Area
b = 0.15
R2 = 0.19
AIC = −124
log10 Mean NPP
b = 0.14
R2 = 0.12
AIC = −117.1
log10 Total NPP
b = 0.14
R2 = 0.3
AIC = −136.3
Area + NPP Predicted Richness
R2 = 0.3
AIC = −134.1

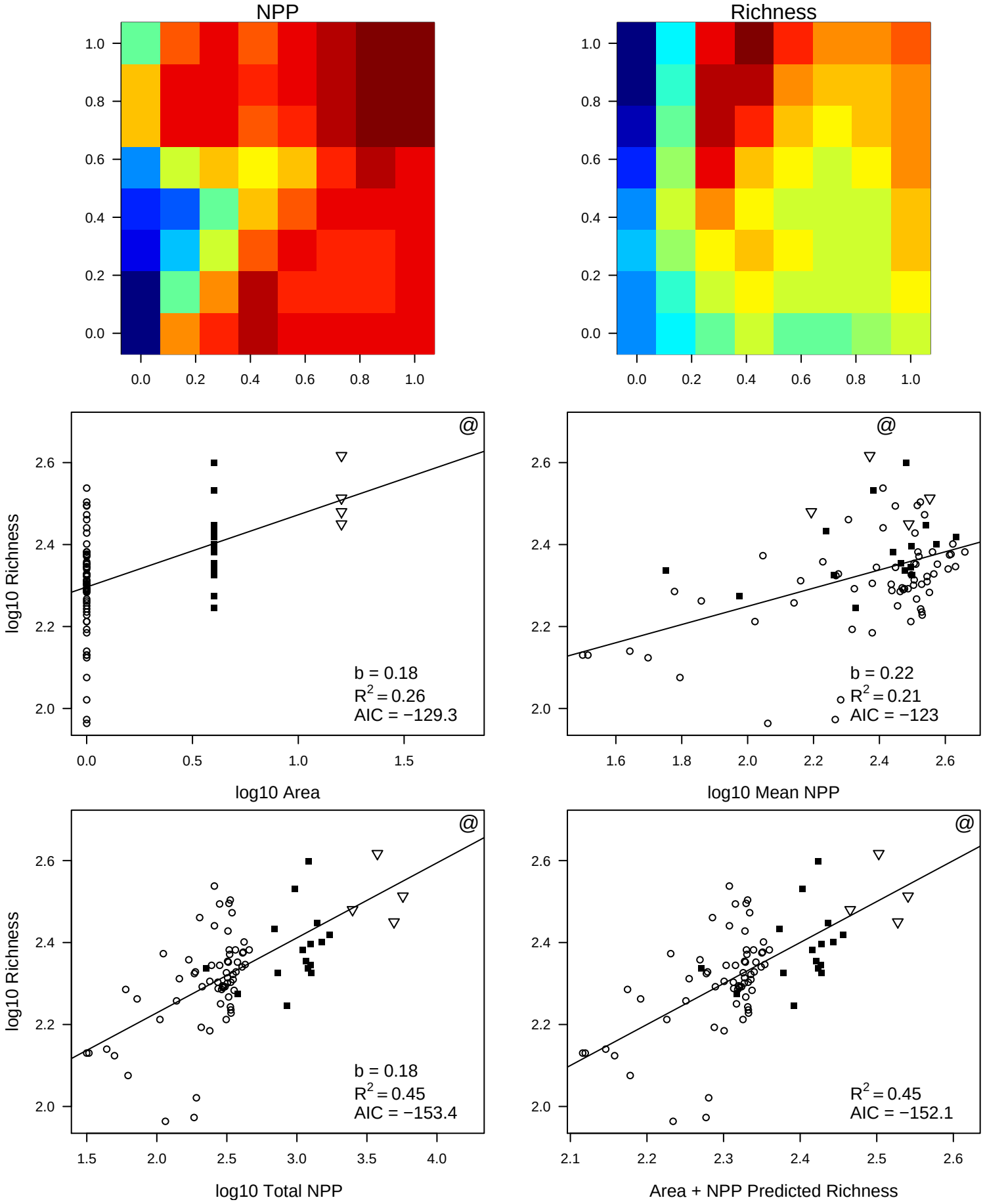
ID 40006


NPP
Richness
log10 Richness
log10 Area
b = 0.14
R2 = 0.38
AIC = −194.4
log10 Mean NPP
b = 0.035
R2 = 0.021
AIC = −159.6
log10 Total NPP
b = 0.089
R2 = 0.3
AIC = −184.7
Area + NPP Predicted Richness
R2 = 0.4
AIC = −194.6

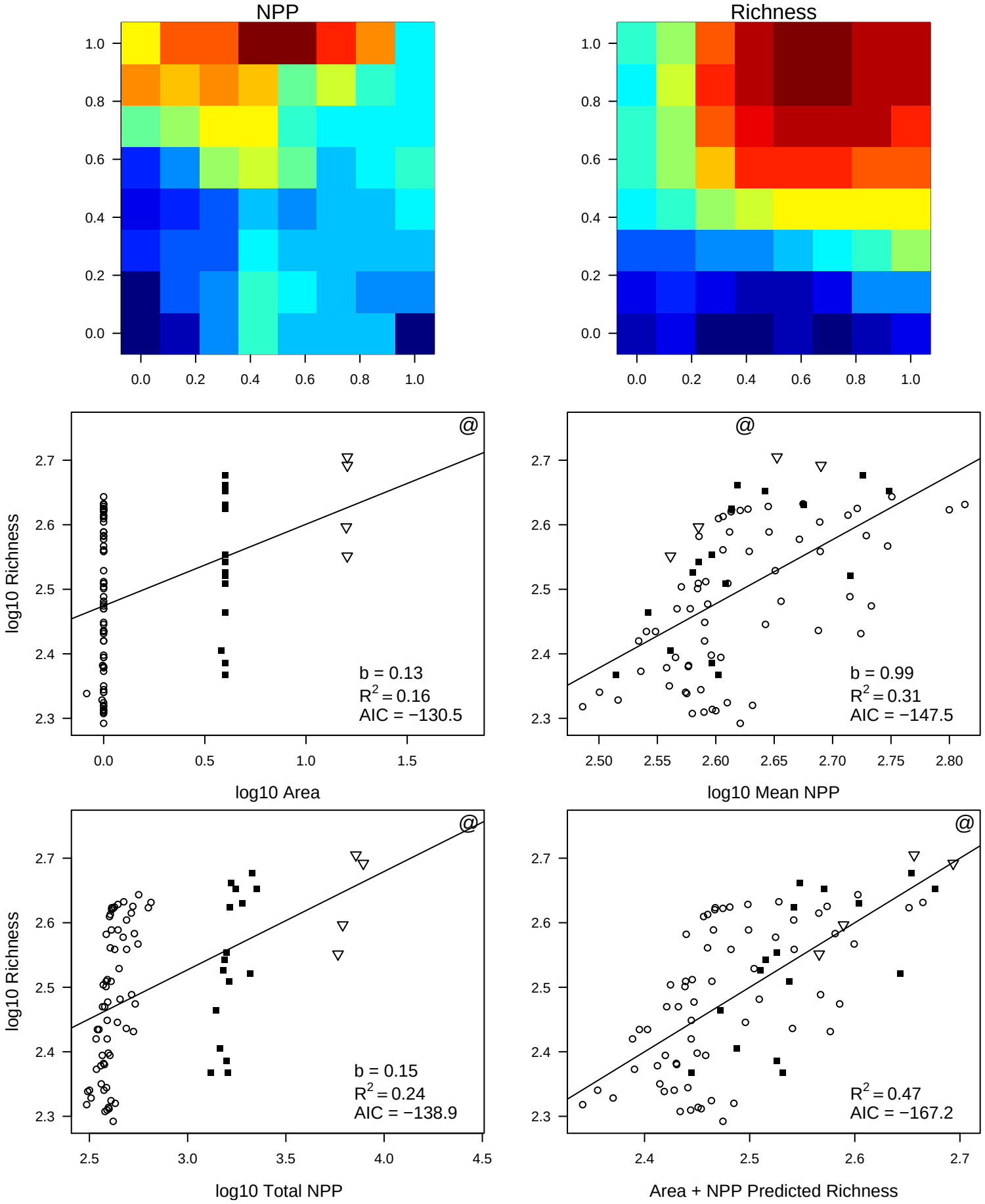
ID 41006


NPP
Richness
log10 Richness
log10 Area
b = 0.15
R2 = 0.26
AIC = −118.7
log10 Mean NPP
b = 0.2
R2 = 0.23
AIC = −115.9
log10 Total NPP
b = 0.17
R2 = 0.48
AIC = −142.1
Area + NPP Predicted Richness
R2 = 0.48
AIC = −140.9

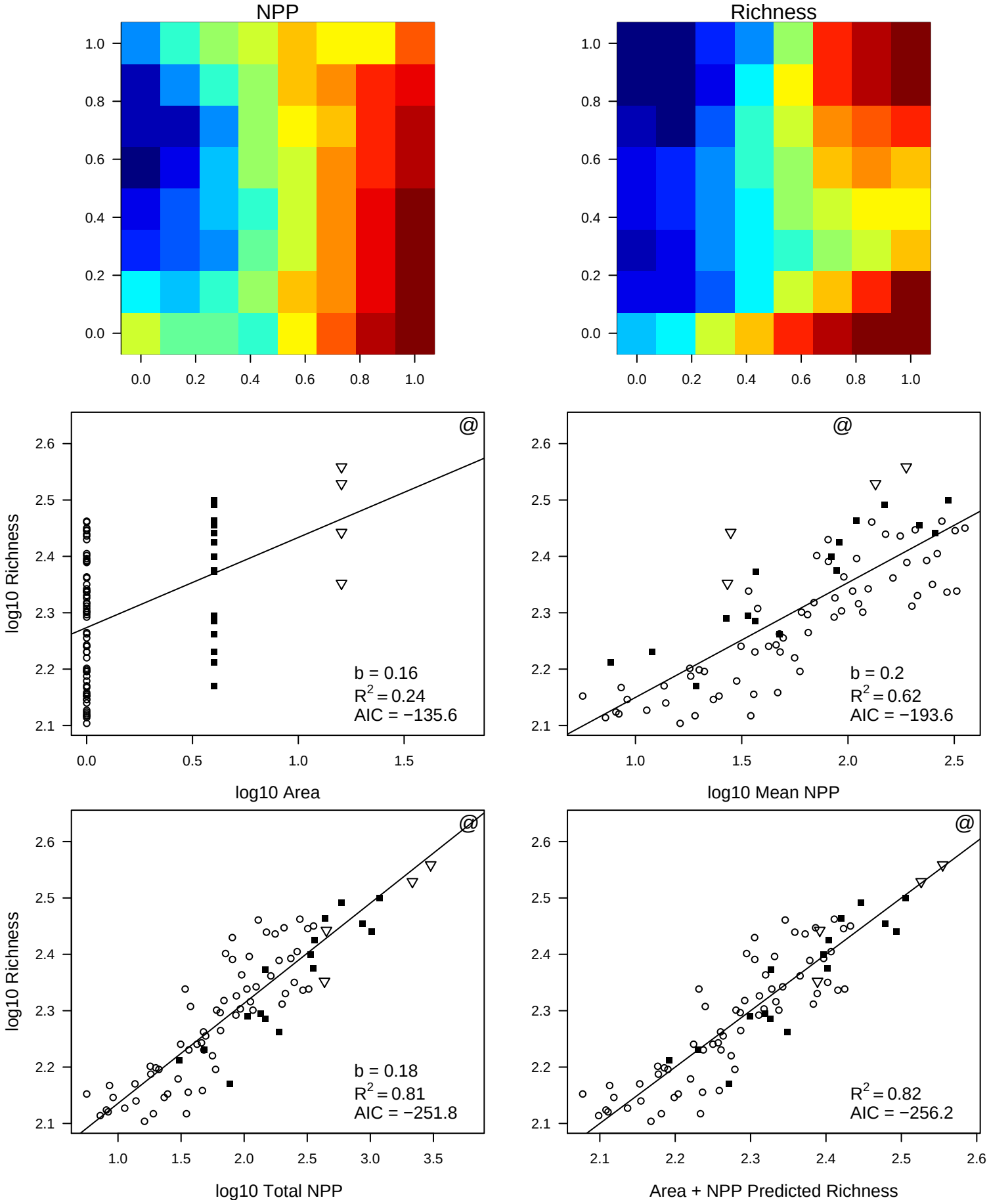
ID 15005


NPP
Richness
log10 Richness
log10 Area
b = 0.18
R2 = 0.26
AIC = −129.3
log10 Mean NPP
b = 0.22
R2 = 0.21
AIC = −123
log10 Total NPP
b = 0.18
R2 = 0.45
AIC = −153.4
Area + NPP Predicted Richness
R2 = 0.45
AIC = −152.1

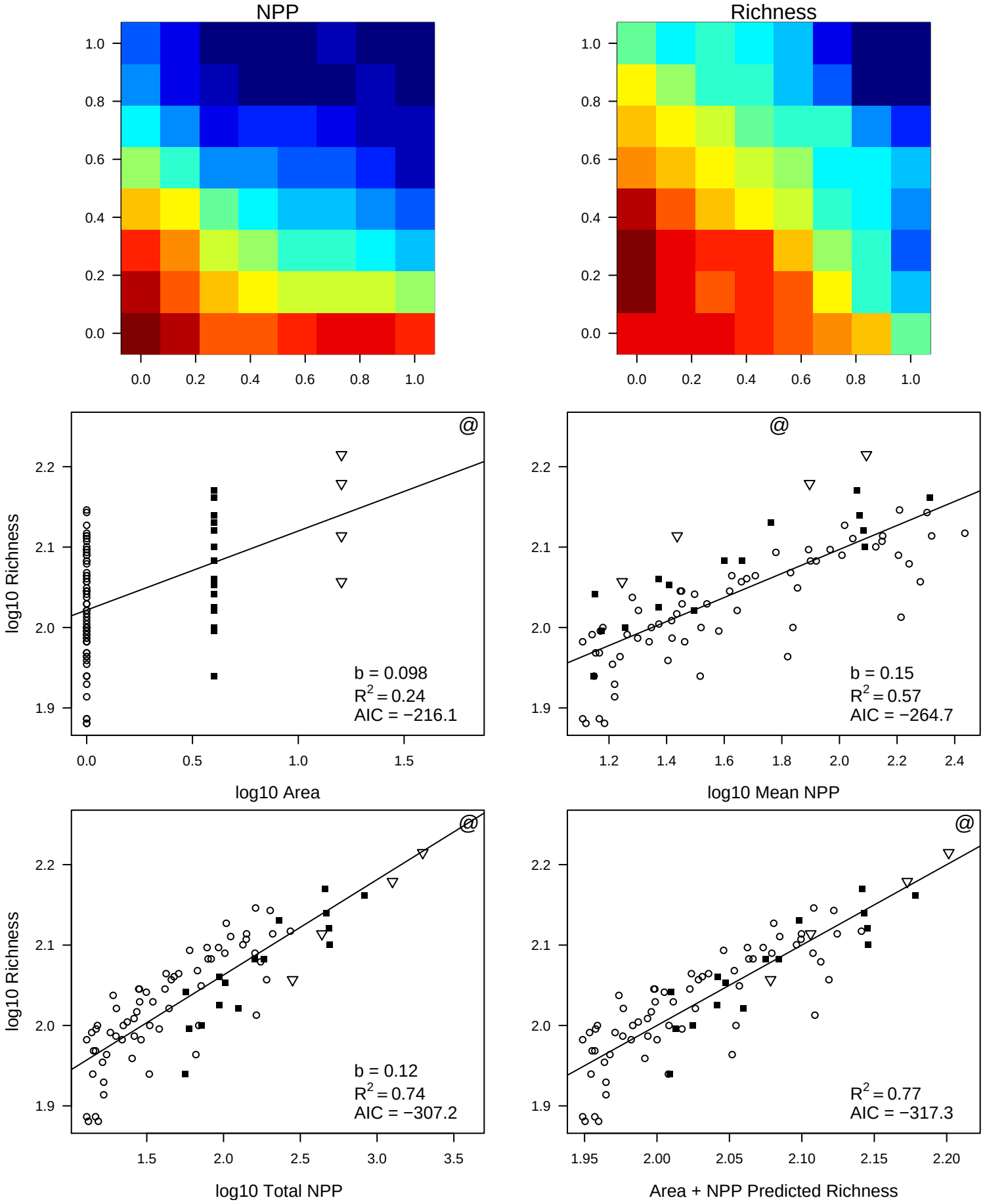
ID 16005


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.16
AIC = −130.5
log10 Mean NPP
b = 0.99
R2 = 0.31
AIC = −147.5
log10 Total NPP
b = 0.15
R2 = 0.24
AIC = −138.9
Area + NPP Predicted Richness
R2 = 0.47
AIC = −167.2

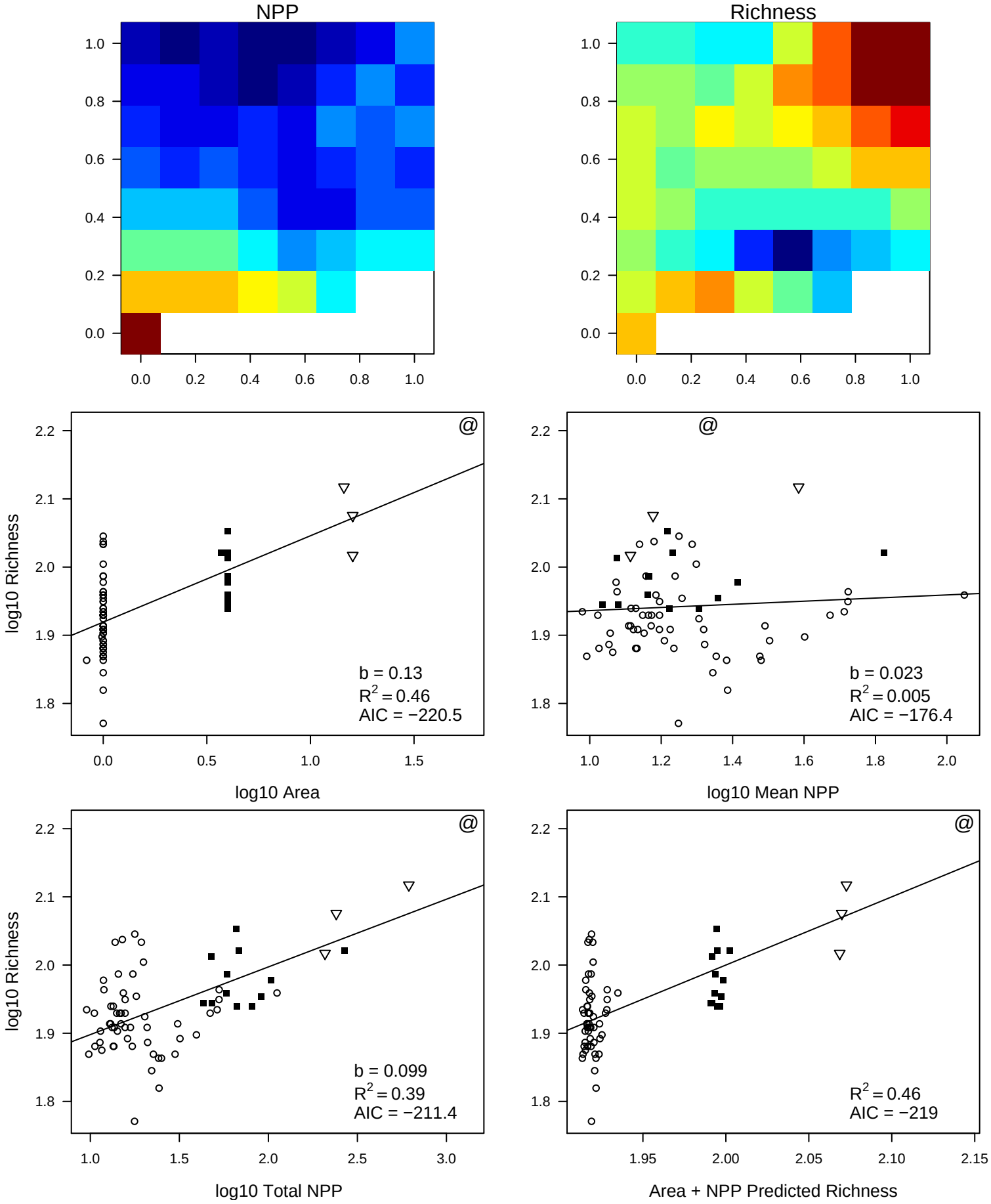
ID 26005


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.24
AIC = −135.6
log10 Mean NPP
b = 0.2
R2 = 0.62
AIC = −193.6
log10 Total NPP
b = 0.18
R2 = 0.81
AIC = −251.8
Area + NPP Predicted Richness
R2 = 0.82
AIC = −256.2

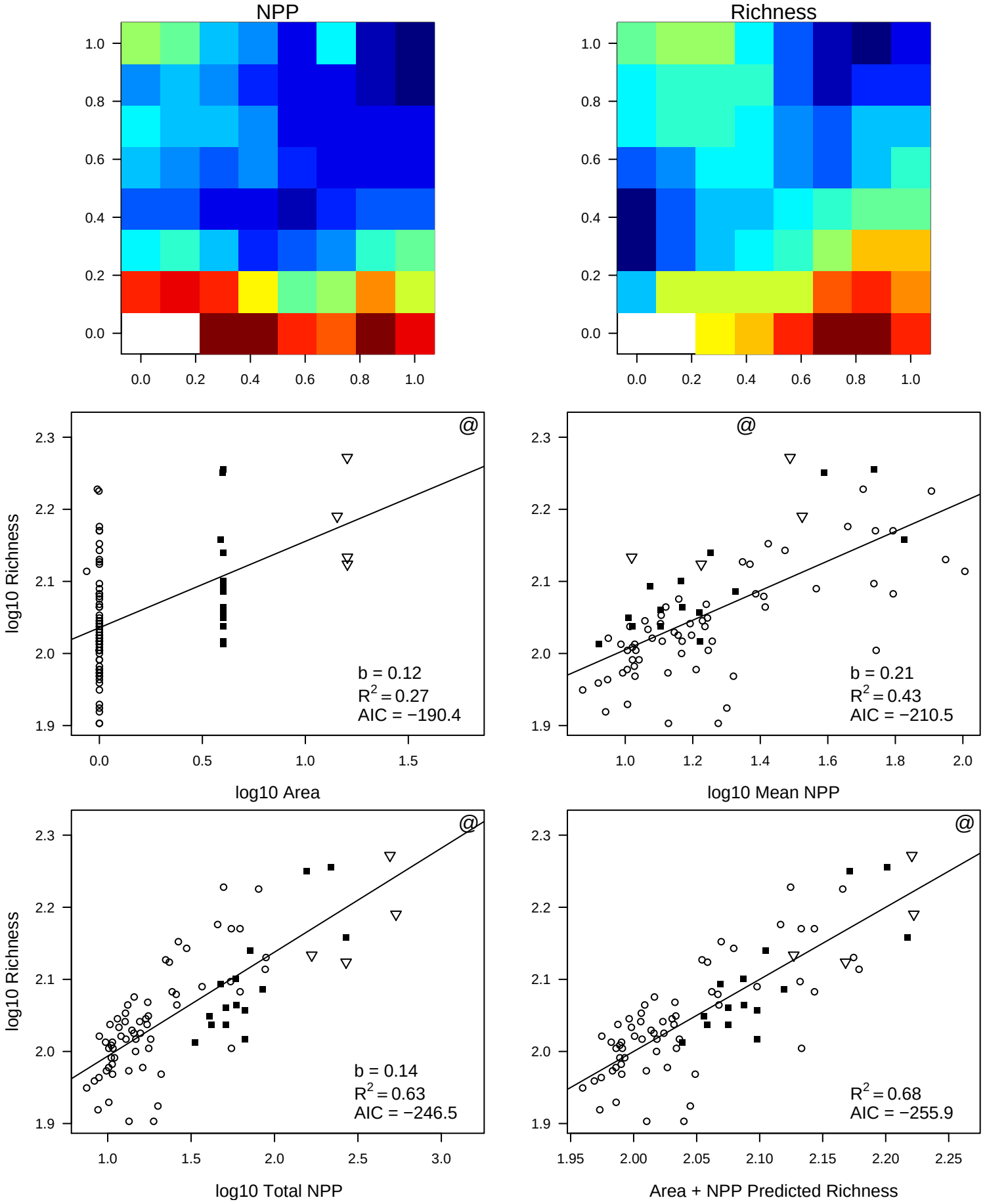
ID 38005


NPP
Richness
log10 Richness
log10 Area
b = 0.098
R2 = 0.24
AIC = −216.1
log10 Mean NPP
b = 0.15
R2 = 0.57
AIC = −264.7
log10 Total NPP
b = 0.12
R2 = 0.74
AIC = −307.2
Area + NPP Predicted Richness
R2 = 0.77
AIC = −317.3

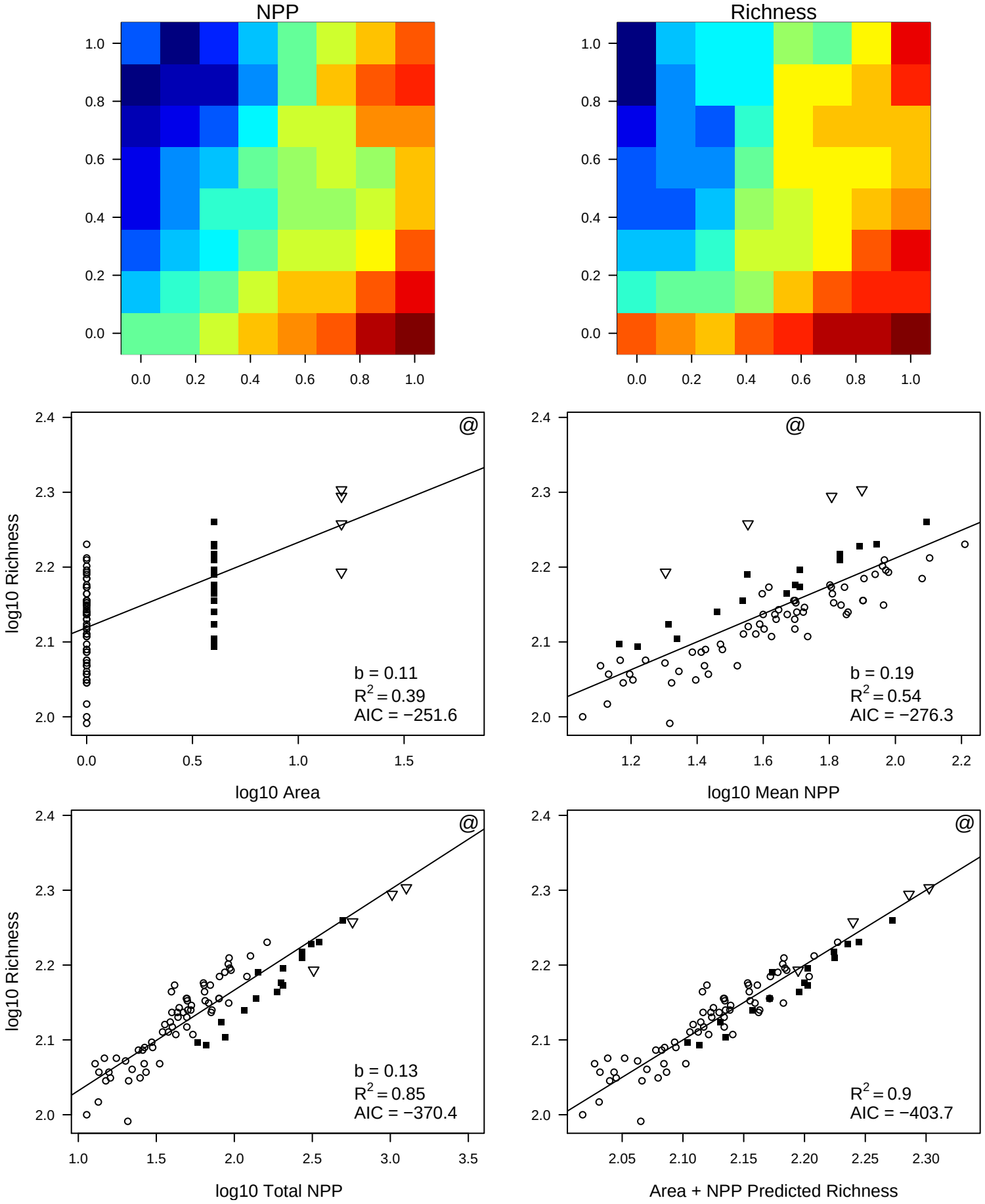
ID 39005


NPP
Richness
log10 Richness
log10 Area
b = 0.13
R2 = 0.46
AIC = −220.5
log10 Mean NPP
b = 0.023
R2 = 0.005
AIC = −176.4
log10 Total NPP
b = 0.099
R2 = 0.39
AIC = −211.4
Area + NPP Predicted Richness
R2 = 0.46
AIC = −219

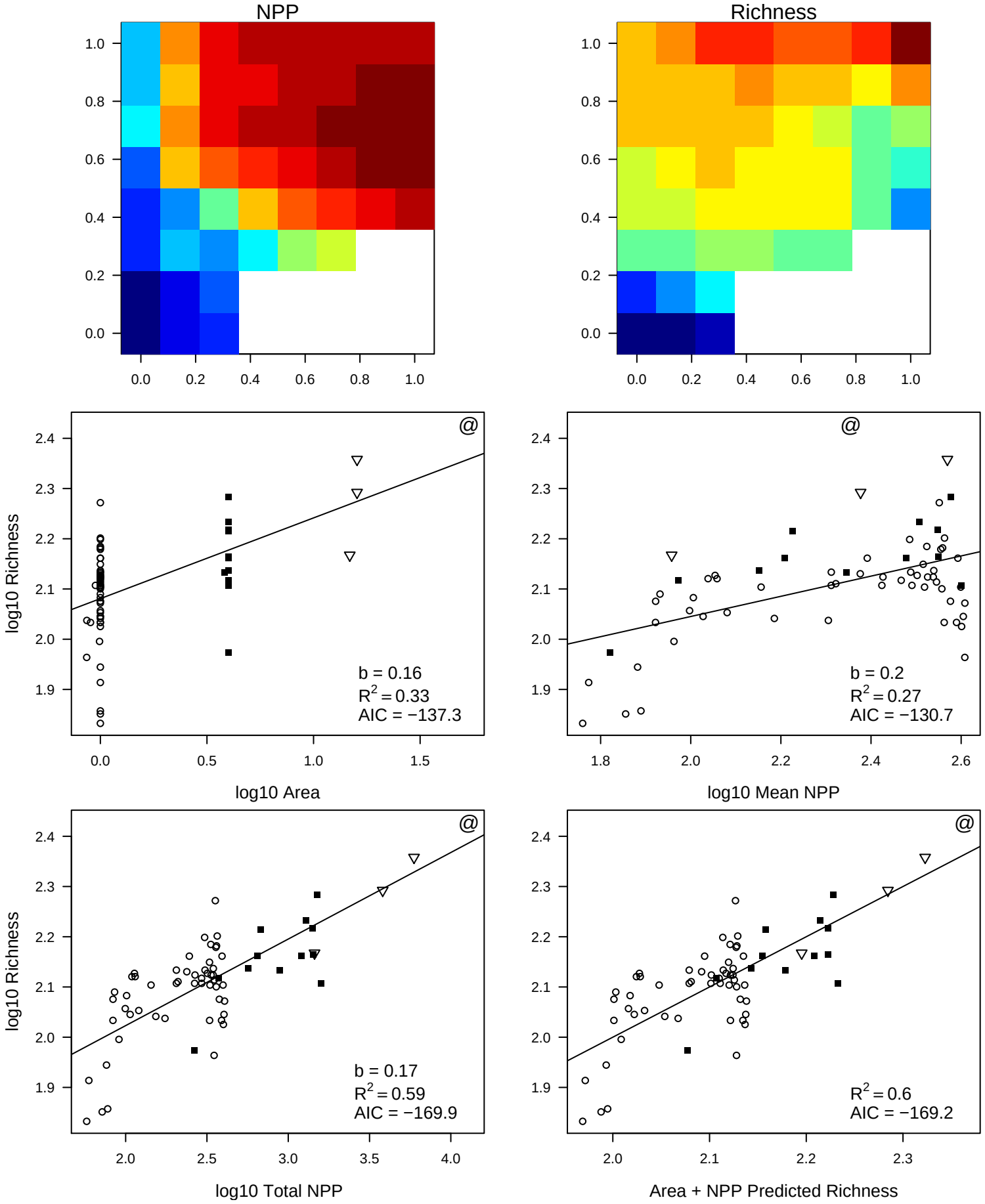
ID 40005


NPP
Richness
log10 Richness
log10 Area
b = 0.12
R2 = 0.27
AIC = −190.4
log10 Mean NPP
b = 0.21
R2 = 0.43
AIC = −210.5
log10 Total NPP
b = 0.14
R2 = 0.63
AIC = −246.5
Area + NPP Predicted Richness
R2 = 0.68
AIC = −255.9

ID 41005


NPP
Richness
log10 Richness
log10 Area
b = 0.11
R2 = 0.39
AIC = −251.6
log10 Mean NPP
b = 0.19
R2 = 0.54
AIC = −276.3
log10 Total NPP
b = 0.13
R2 = 0.85
AIC = −370.4
Area + NPP Predicted Richness
R2 = 0.9
AIC = −403.7

ID 15004


NPP
Richness
log10 Richness
log10 Area
b = 0.16
R2 = 0.33
AIC = −137.3
log10 Mean NPP
b = 0.2
R2 = 0.27
AIC = −130.7
log10 Total NPP
b = 0.17
R2 = 0.59
AIC = −169.9
Area + NPP Predicted Richness
R2 = 0.6
AIC = −169.2