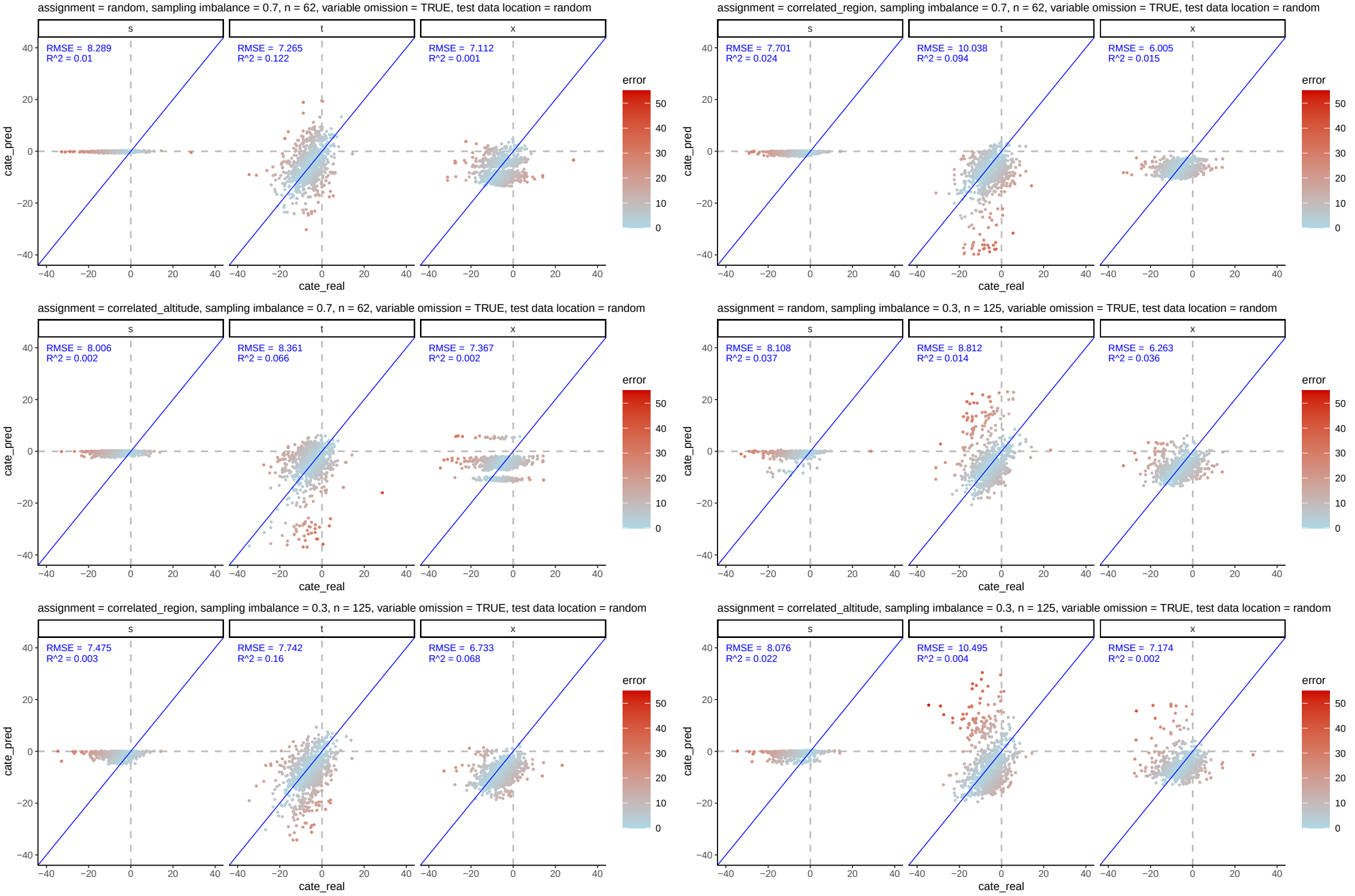
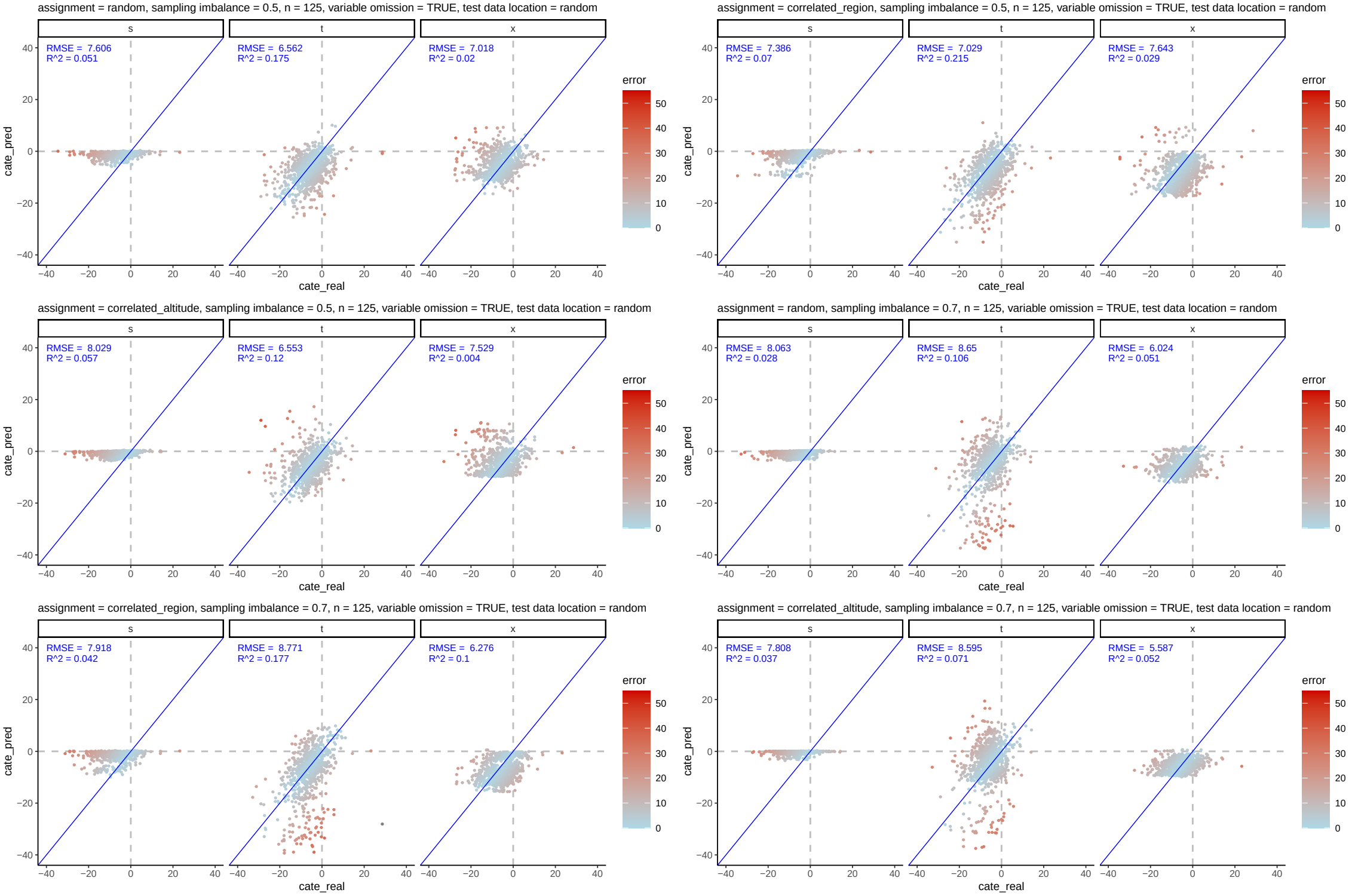
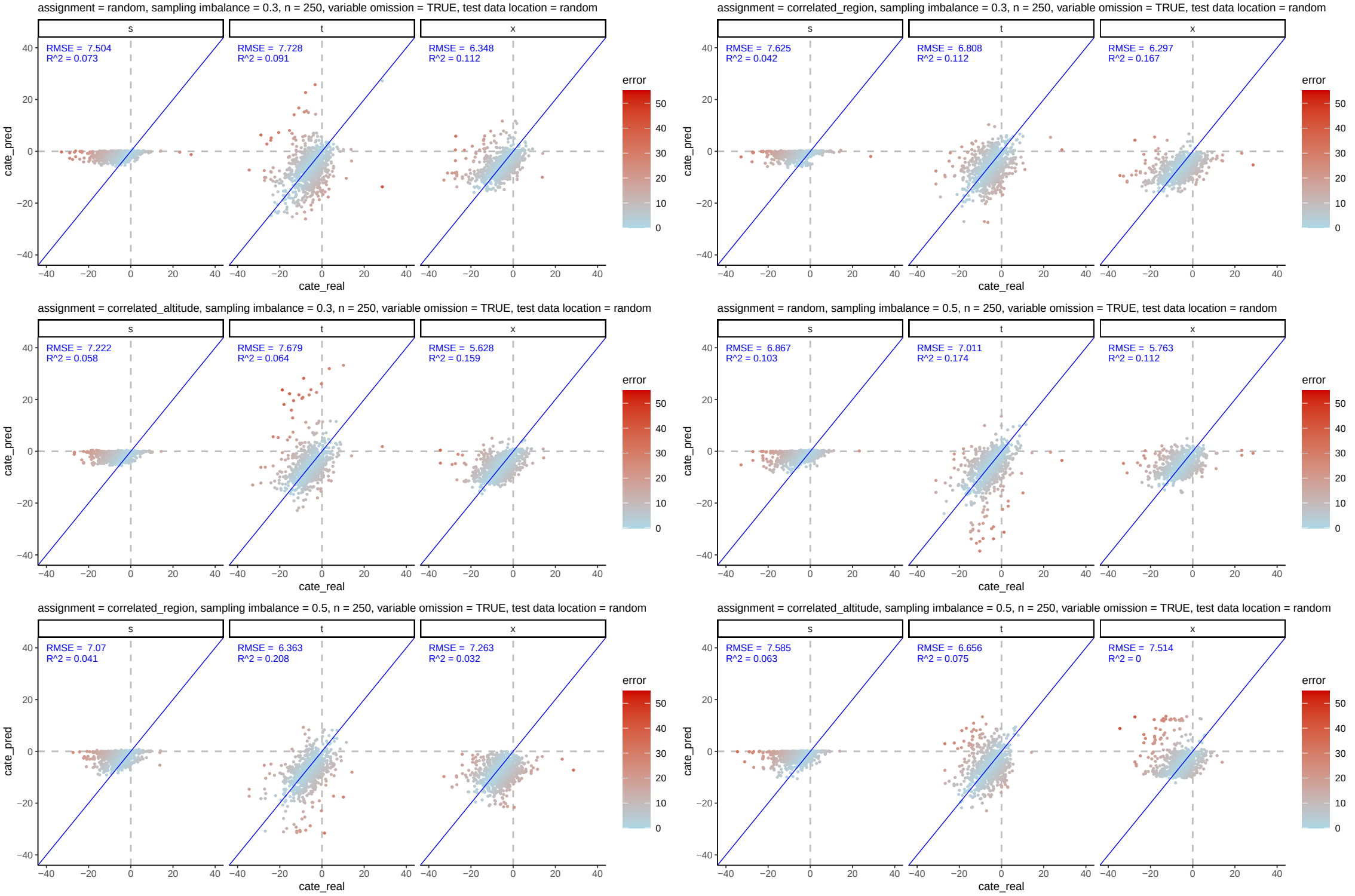
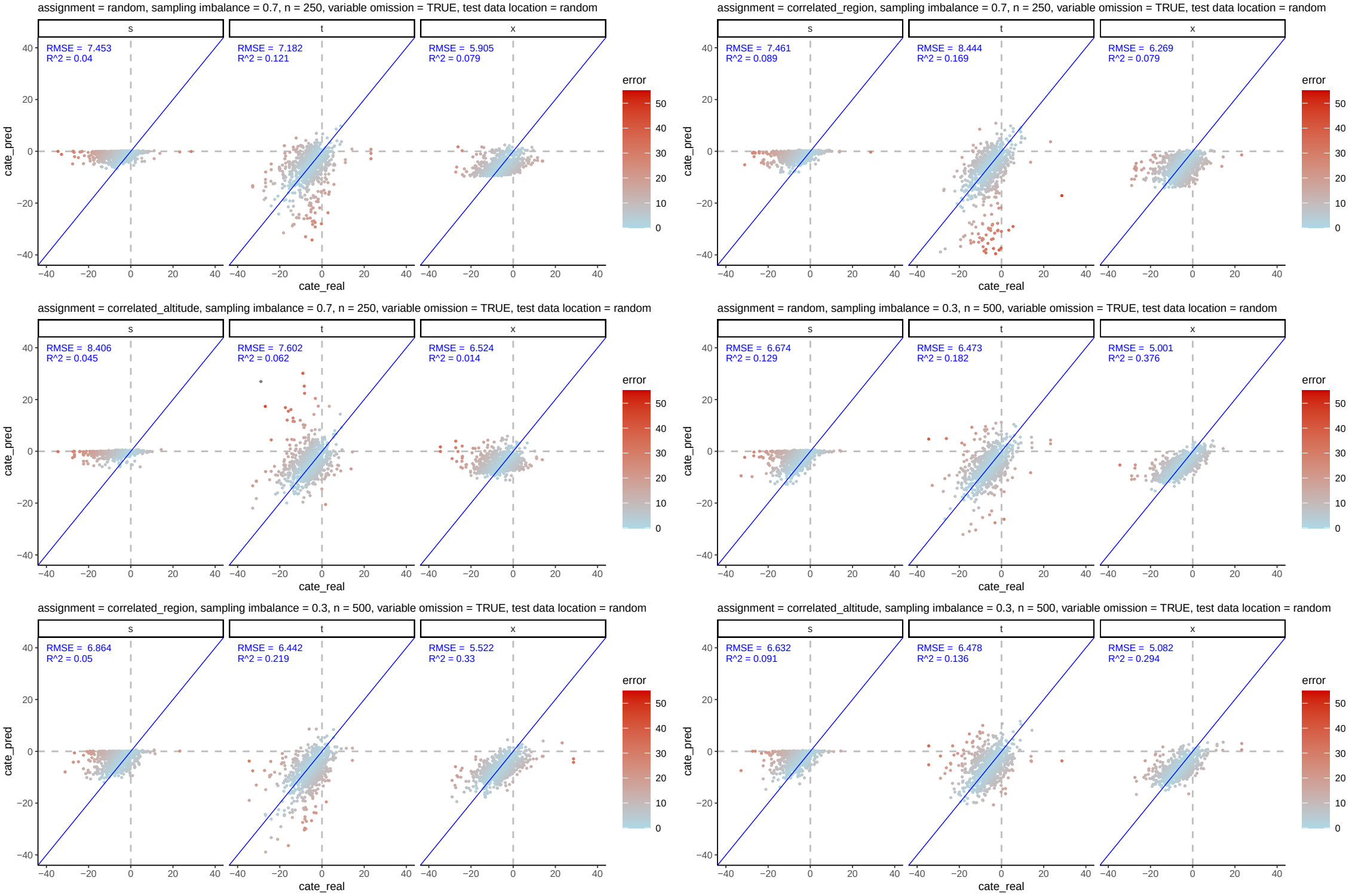
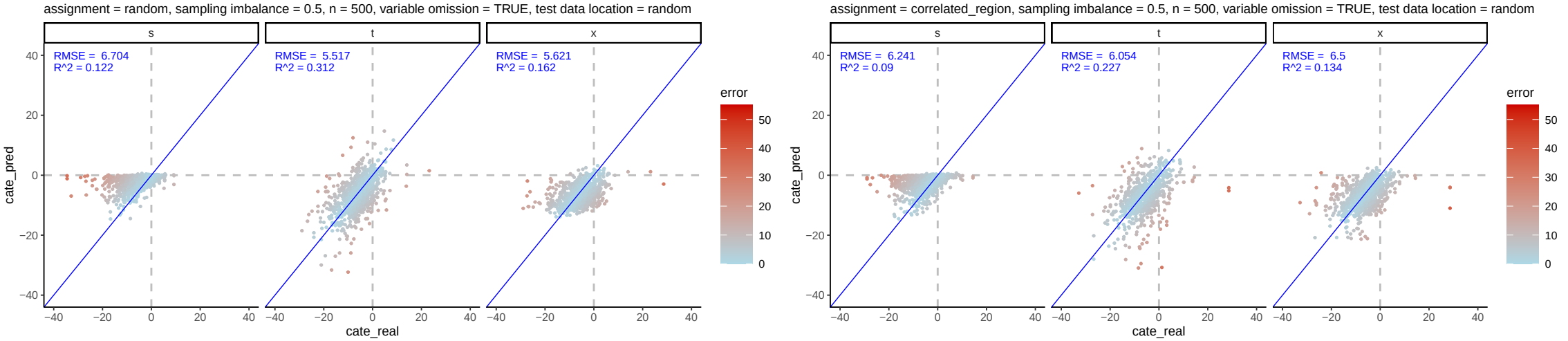

assignment = random, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = random
s
t
x
RMSE = 8.289
R^2 = 0.01
RMSE = 7.265
R^2 = 0.122
RMSE = 7.112
R^2 = 0.001
assignment = correlated_region, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = random
RMSE = 7.701
R^2 = 0.024
RMSE = 10.038
R^2 = 0.094
RMSE = 6.005
R^2 = 0.015
assignment = correlated_altitude, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = random
RMSE = 8.006
R^2 = 0.002
RMSE = 8.361
R^2 = 0.066
RMSE = 7.367
R^2 = 0.002
assignment = random, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = random
RMSE = 8.108
R^2 = 0.037
RMSE = 8.812
R^2 = 0.014
RMSE = 6.263
R^2 = 0.036
assignment = correlated_region, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = random
RMSE = 7.475
R^2 = 0.003
RMSE = 7.742
R^2 = 0.16
RMSE = 6.733
R^2 = 0.068
assignment = correlated_altitude, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = random
RMSE = 8.076
R^2 = 0.022
RMSE = 10.495
R^2 = 0.004
RMSE = 7.174
R^2 = 0.002
cate_pred
cate_real
error
−40
−20
0
20
40
50
30
10

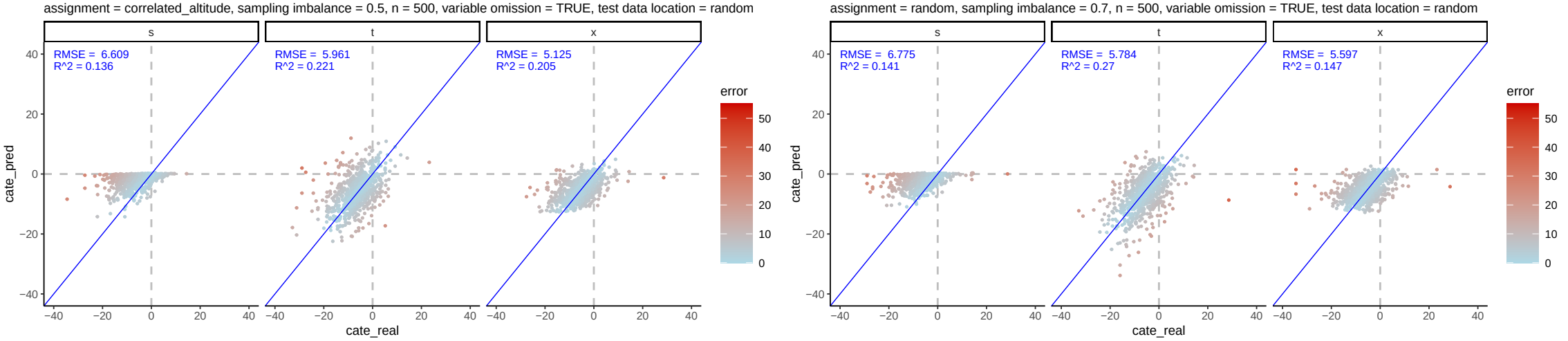

assignment = random, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = random
s
t
x
RMSE = 7.606
R^2 = 0.051
RMSE = 6.562
R^2 = 0.175
RMSE = 7.018
R^2 = 0.02
assignment = correlated_region, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = random
RMSE = 7.386
R^2 = 0.07
RMSE = 7.029
R^2 = 0.215
RMSE = 7.643
R^2 = 0.029
assignment = correlated_altitude, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = random
RMSE = 8.029
R^2 = 0.057
RMSE = 6.553
R^2 = 0.12
RMSE = 7.529
R^2 = 0.004
assignment = random, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = random
RMSE = 8.063
R^2 = 0.028
RMSE = 8.65
R^2 = 0.106
RMSE = 6.024
R^2 = 0.051
assignment = correlated_region, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = random
RMSE = 7.918
R^2 = 0.042
RMSE = 8.771
R^2 = 0.177
RMSE = 6.276
R^2 = 0.1
assignment = correlated_altitude, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = random
RMSE = 7.808
R^2 = 0.037
RMSE = 8.595
R^2 = 0.071
RMSE = 5.587
R^2 = 0.052
cate_pred
cate_real
error
40
20
0
−20
−40


assignment = random, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = random
s
t
x
RMSE = 7.504
R^2 = 0.073
RMSE = 7.728
R^2 = 0.091
RMSE = 6.348
R^2 = 0.112
assignment = correlated_region, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = random
RMSE = 7.625
R^2 = 0.042
RMSE = 6.808
R^2 = 0.112
RMSE = 6.297
R^2 = 0.167
assignment = correlated_altitude, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = random
RMSE = 7.222
R^2 = 0.058
RMSE = 7.679
R^2 = 0.064
RMSE = 5.628
R^2 = 0.159
assignment = random, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = random
RMSE = 6.867
R^2 = 0.103
RMSE = 7.011
R^2 = 0.174
RMSE = 5.763
R^2 = 0.112
assignment = correlated_region, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = random
RMSE = 7.07
R^2 = 0.041
RMSE = 6.363
R^2 = 0.208
RMSE = 7.263
R^2 = 0.032
assignment = correlated_altitude, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = random
RMSE = 7.585
R^2 = 0.063
RMSE = 6.656
R^2 = 0.075
RMSE = 7.514
R^2 = 0
cate_pred
cate_real
error
40
20
0
−20
−40
50
30
10

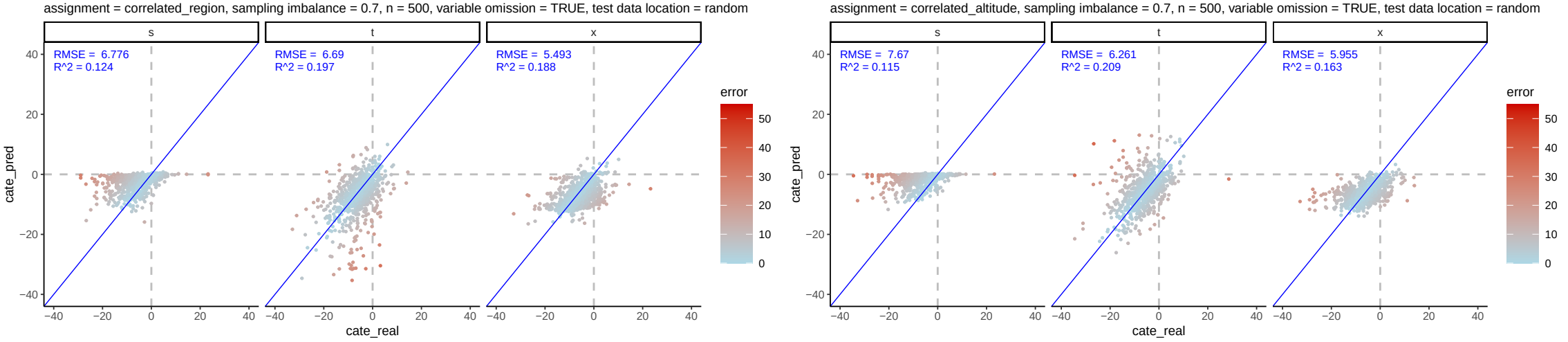

assignment = random, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = random
s
RMSE = 7.453
R^2 = 0.04
t
RMSE = 7.182
R^2 = 0.121
x
RMSE = 5.905
R^2 = 0.079
assignment = correlated_region, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = random
s
RMSE = 7.461
R^2 = 0.089
t
RMSE = 8.444
R^2 = 0.169
x
RMSE = 6.269
R^2 = 0.079
assignment = correlated_altitude, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = random
s
RMSE = 8.406
R^2 = 0.045
t
RMSE = 7.602
R^2 = 0.062
x
RMSE = 6.524
R^2 = 0.014
assignment = random, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = random
s
RMSE = 6.674
R^2 = 0.129
t
RMSE = 6.473
R^2 = 0.182
x
RMSE = 5.001
R^2 = 0.376
assignment = correlated_region, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = random
s
RMSE = 6.864
R^2 = 0.05
t
RMSE = 6.442
R^2 = 0.219
x
RMSE = 5.522
R^2 = 0.33
assignment = correlated_altitude, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = random
s
RMSE = 6.632
R^2 = 0.091
t
RMSE = 6.478
R^2 = 0.136
x
RMSE = 5.082
R^2 = 0.294
cate_pred
cate_real
error
−40
−20
0
20
40
50
30
10


assignment = random, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.704
R^2 = 0.122
RMSE = 5.517
R^2 = 0.312
RMSE = 5.621
R^2 = 0.162
cate_pred
cate_real
error

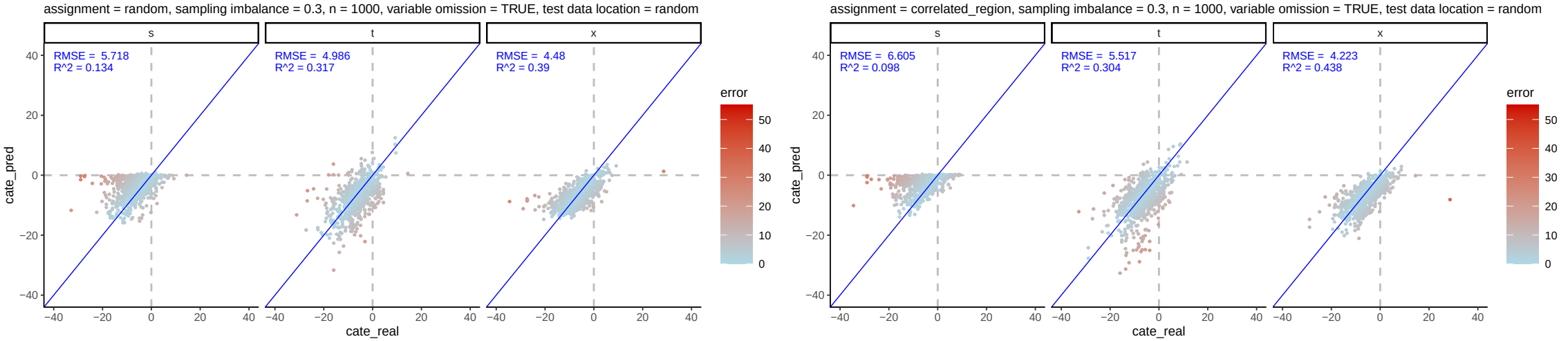
assignment = correlated_region, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.241
R^2 = 0.09
RMSE = 6.054
R^2 = 0.227
RMSE = 6.5
R^2 = 0.134
cate_pred
cate_real
error


assignment = correlated_altitude, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.609
R^2 = 0.136
RMSE = 5.961
R^2 = 0.221
RMSE = 5.125
R^2 = 0.205
cate_pred
cate_real
error

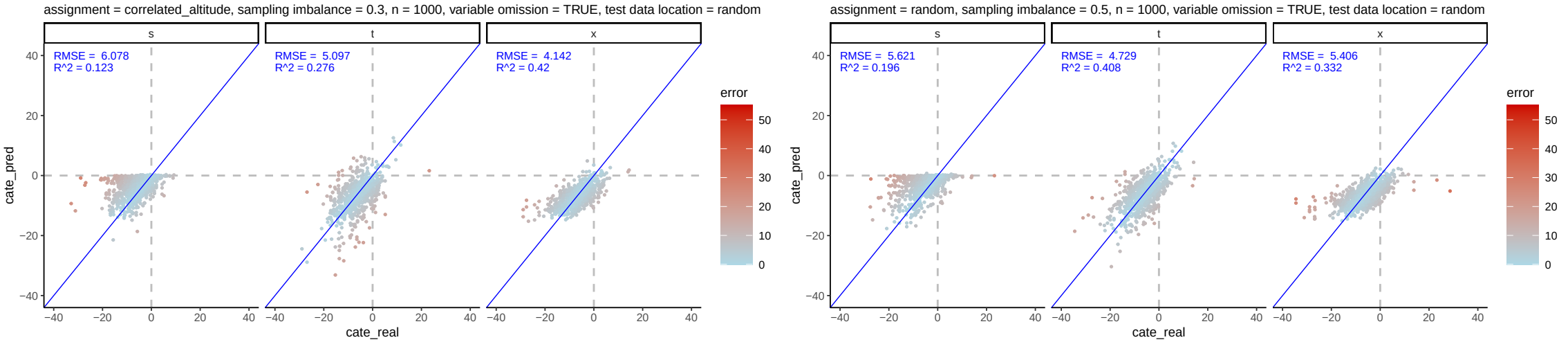
assignment = random, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.775
R^2 = 0.141
RMSE = 5.784
R^2 = 0.27
RMSE = 5.597
R^2 = 0.147
cate_pred
cate_real
error


assignment = correlated_region, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.776
R^2 = 0.124
RMSE = 6.69
R^2 = 0.197
RMSE = 5.493
R^2 = 0.188
cate_pred
cate_real
error

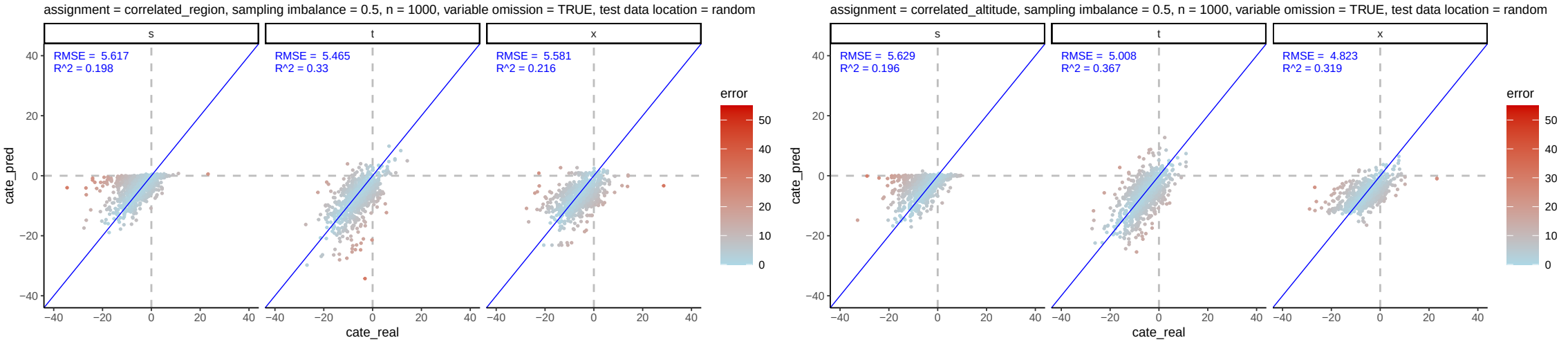
assignment = correlated_altitude, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = random
s
t
x
RMSE = 7.67
R^2 = 0.115
RMSE = 6.261
R^2 = 0.209
RMSE = 5.955
R^2 = 0.163
cate_pred
cate_real
error


assignment = random, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = random
s
t
x
RMSE = 5.718
R^2 = 0.134
RMSE = 4.986
R^2 = 0.317
RMSE = 4.48
R^2 = 0.39
cate_pred
cate_real
error

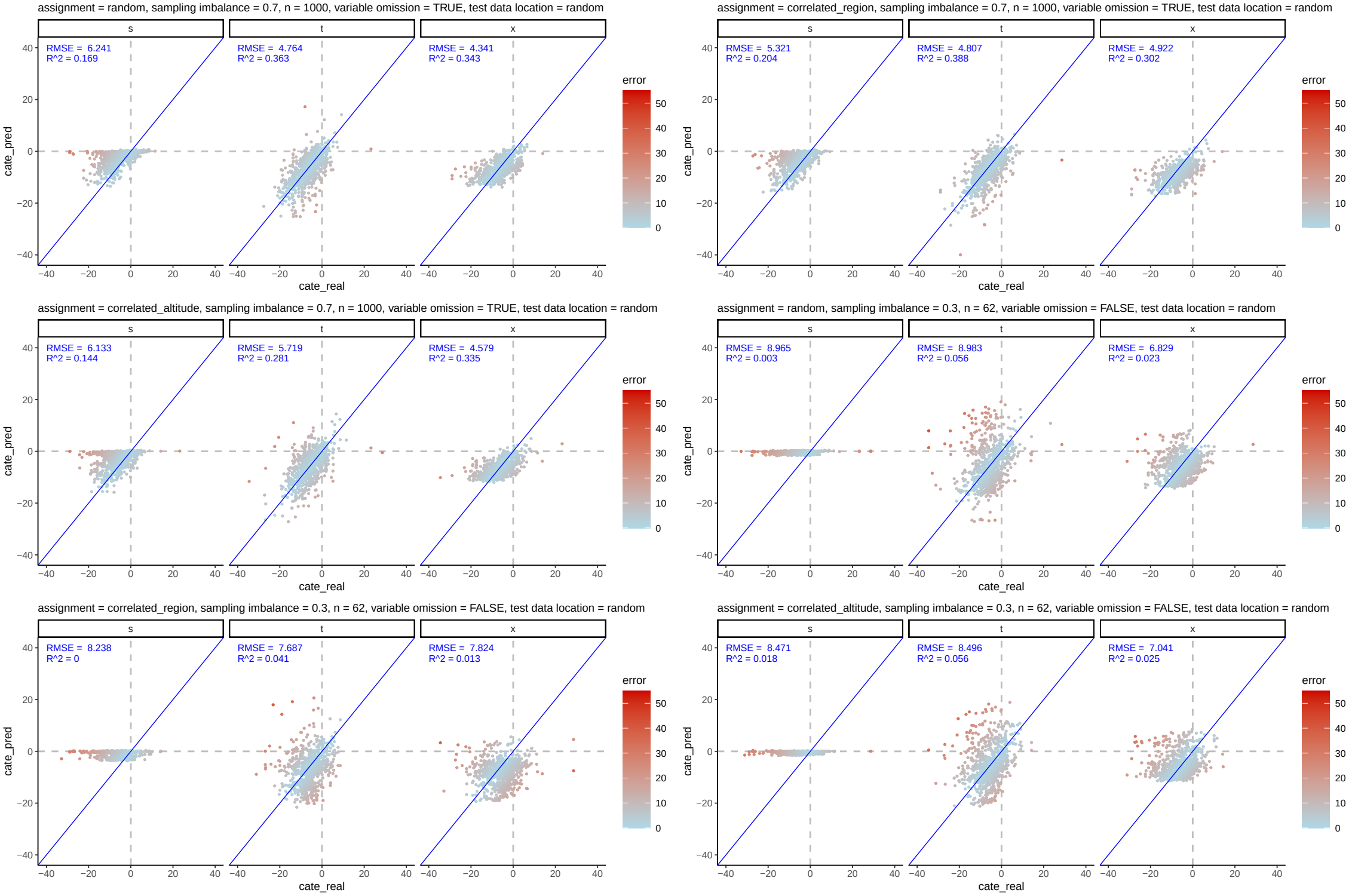
assignment = correlated_region, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.605
R^2 = 0.098
RMSE = 5.517
R^2 = 0.304
RMSE = 4.223
R^2 = 0.438
cate_pred
cate_real
error

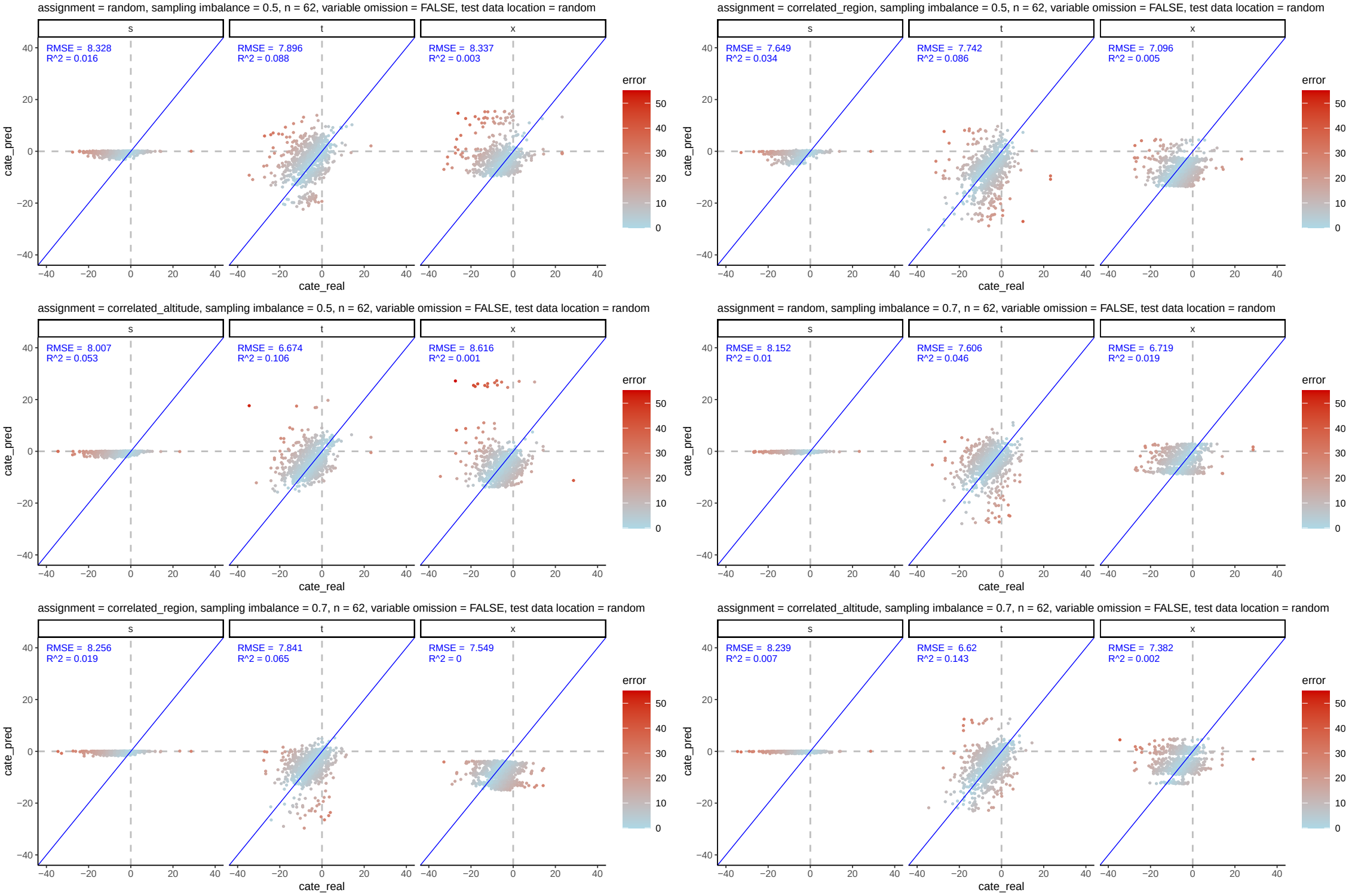

assignment = correlated_altitude, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = random
s
t
x
RMSE = 6.078
R^2 = 0.123
RMSE = 5.097
R^2 = 0.276
RMSE = 4.142
R^2 = 0.42
cate_pred
cate_real
error

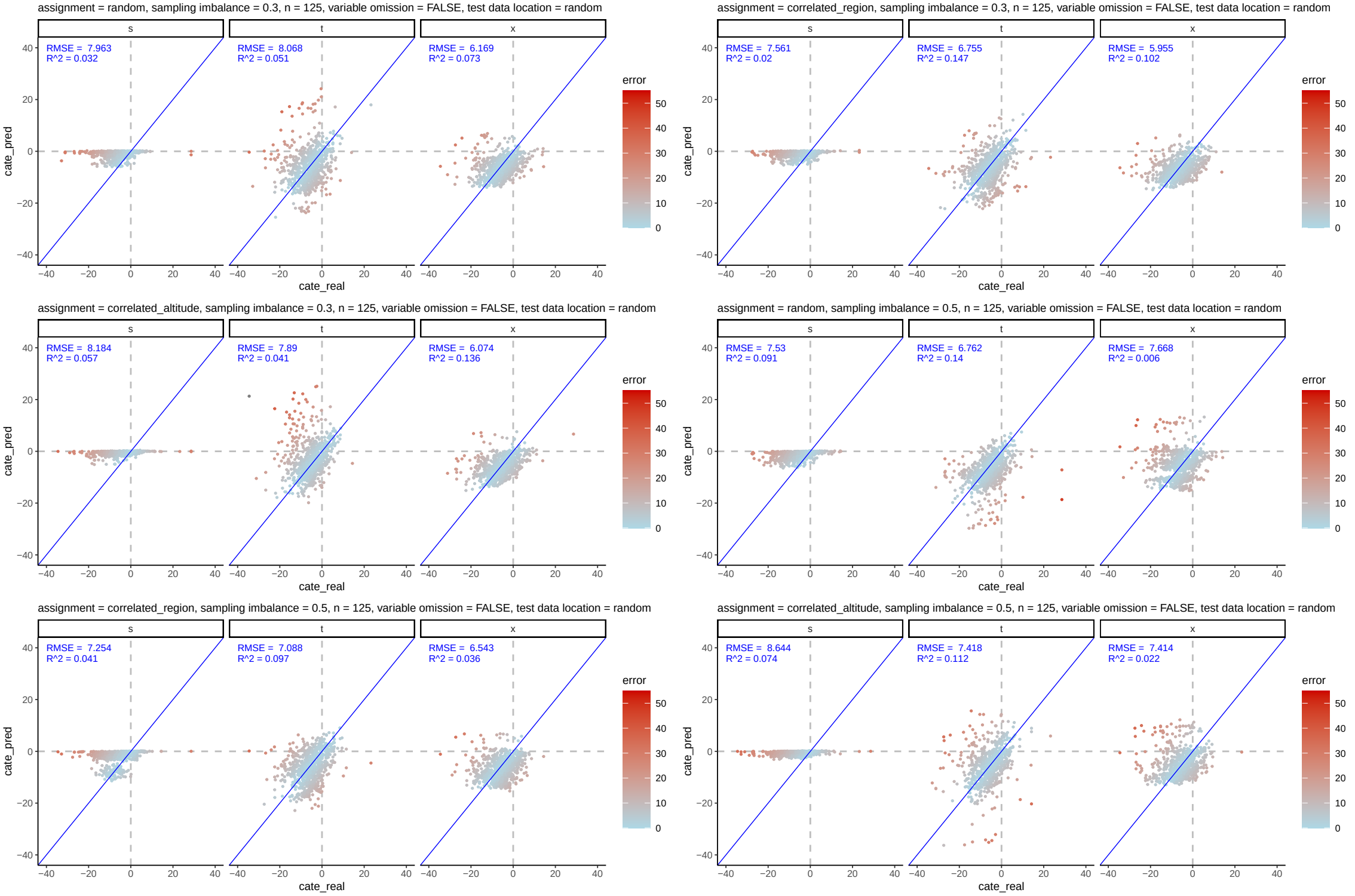
assignment = random, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = random
s
t
x
RMSE = 5.621
R^2 = 0.196
RMSE = 4.729
R^2 = 0.408
RMSE = 5.406
R^2 = 0.332
cate_pred
cate_real
error

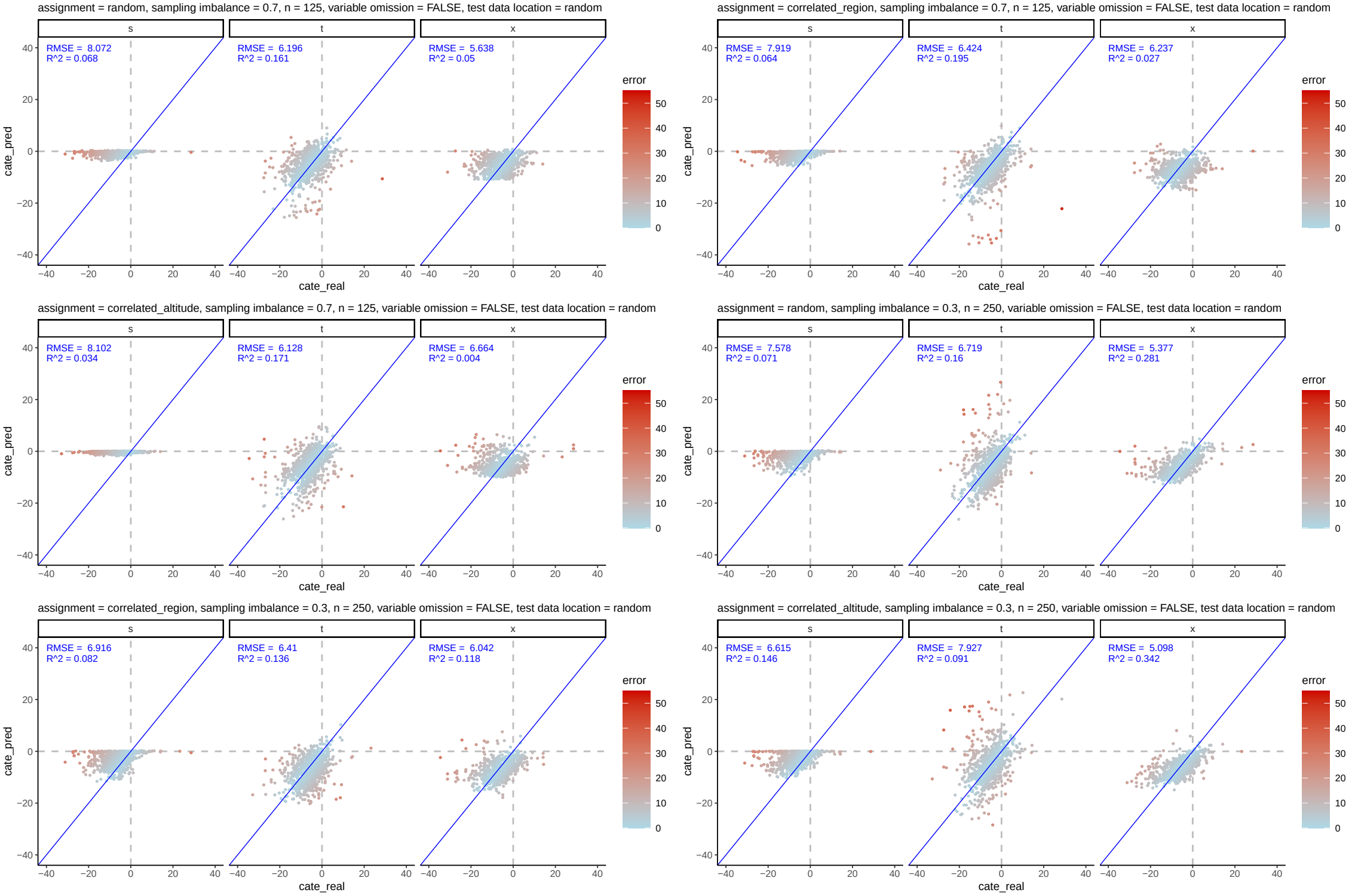

assignment = correlated_region, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = random
s
t
x
RMSE = 5.617
R^2 = 0.198
RMSE = 5.465
R^2 = 0.33
RMSE = 5.581
R^2 = 0.216
cate_pred
cate_real
error

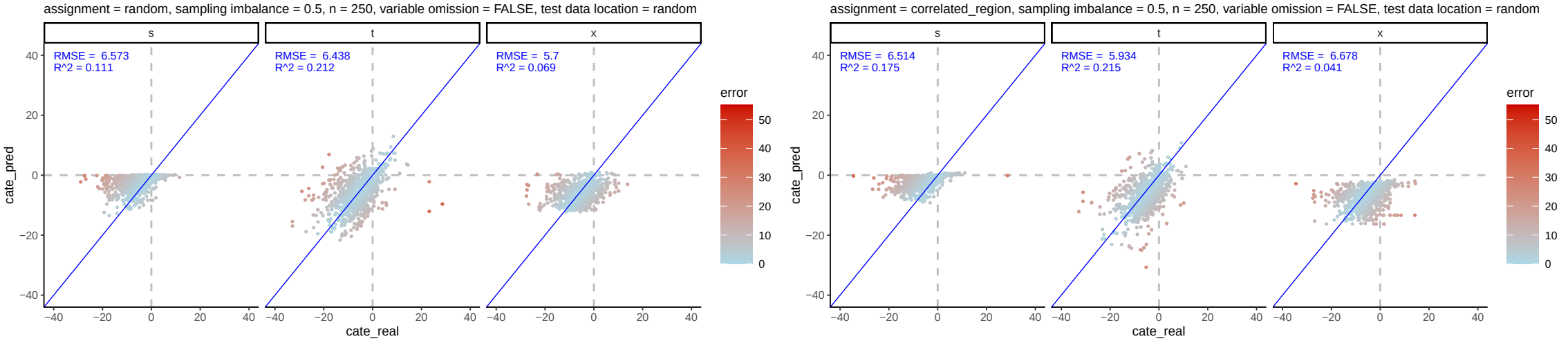
assignment = correlated_altitude, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = random
s
t
x
RMSE = 5.629
R^2 = 0.196
RMSE = 5.008
R^2 = 0.367
RMSE = 4.823
R^2 = 0.319
cate_pred
cate_real
error


assignment = random, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = random
s
RMSE = 6.241
R^2 = 0.169
t
RMSE = 4.764
R^2 = 0.363
x
RMSE = 4.341
R^2 = 0.343
assignment = correlated_region, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = random
s
RMSE = 5.321
R^2 = 0.204
t
RMSE = 4.807
R^2 = 0.388
x
RMSE = 4.922
R^2 = 0.302
assignment = correlated_altitude, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = random
s
RMSE = 6.133
R^2 = 0.144
t
RMSE = 5.719
R^2 = 0.281
x
RMSE = 4.579
R^2 = 0.335
assignment = random, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = random
s
RMSE = 8.965
R^2 = 0.003
t
RMSE = 8.983
R^2 = 0.056
x
RMSE = 6.829
R^2 = 0.023
assignment = correlated_region, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = random
s
RMSE = 8.238
R^2 = 0
t
RMSE = 7.687
R^2 = 0.041
x
RMSE = 7.824
R^2 = 0.013
assignment = correlated_altitude, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = random
s
RMSE = 8.471
R^2 = 0.018
t
RMSE = 8.496
R^2 = 0.056
x
RMSE = 7.041
R^2 = 0.025
cate_pred
cate_real
error
40
20
0
−20
−40

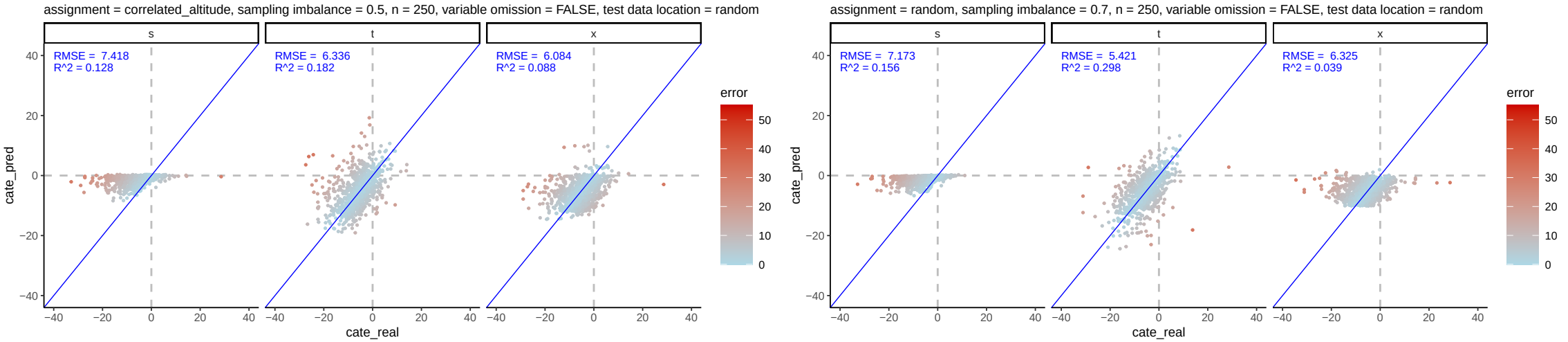

assignment = random, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = random
s
t
x
RMSE = 8.328
R^2 = 0.016
RMSE = 7.896
R^2 = 0.088
RMSE = 8.337
R^2 = 0.003
assignment = correlated_region, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = random
RMSE = 7.649
R^2 = 0.034
RMSE = 7.742
R^2 = 0.086
RMSE = 7.096
R^2 = 0.005
assignment = correlated_altitude, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = random
RMSE = 8.007
R^2 = 0.053
RMSE = 6.674
R^2 = 0.106
RMSE = 8.616
R^2 = 0.001
assignment = random, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = random
RMSE = 8.152
R^2 = 0.01
RMSE = 7.606
R^2 = 0.046
RMSE = 6.719
R^2 = 0.019
assignment = correlated_region, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = random
RMSE = 8.256
R^2 = 0.019
RMSE = 7.841
R^2 = 0.065
RMSE = 7.549
R^2 = 0
assignment = correlated_altitude, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = random
RMSE = 8.239
R^2 = 0.007
RMSE = 6.62
R^2 = 0.143
RMSE = 7.382
R^2 = 0.002
cate_pred
cate_real
error


assignment = random, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 7.963
R^2 = 0.032
t
RMSE = 8.068
R^2 = 0.051
x
RMSE = 6.169
R^2 = 0.073
assignment = correlated_region, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 7.561
R^2 = 0.02
t
RMSE = 6.755
R^2 = 0.147
x
RMSE = 5.955
R^2 = 0.102
assignment = correlated_altitude, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 8.184
R^2 = 0.057
t
RMSE = 7.89
R^2 = 0.041
x
RMSE = 6.074
R^2 = 0.136
assignment = random, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 7.53
R^2 = 0.091
t
RMSE = 6.762
R^2 = 0.14
x
RMSE = 7.668
R^2 = 0.006
assignment = correlated_region, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 7.254
R^2 = 0.041
t
RMSE = 7.088
R^2 = 0.097
x
RMSE = 6.543
R^2 = 0.036
assignment = correlated_altitude, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 8.644
R^2 = 0.074
t
RMSE = 7.418
R^2 = 0.112
x
RMSE = 7.414
R^2 = 0.022
cate_pred
cate_real
error
40
20
0
−20
−40

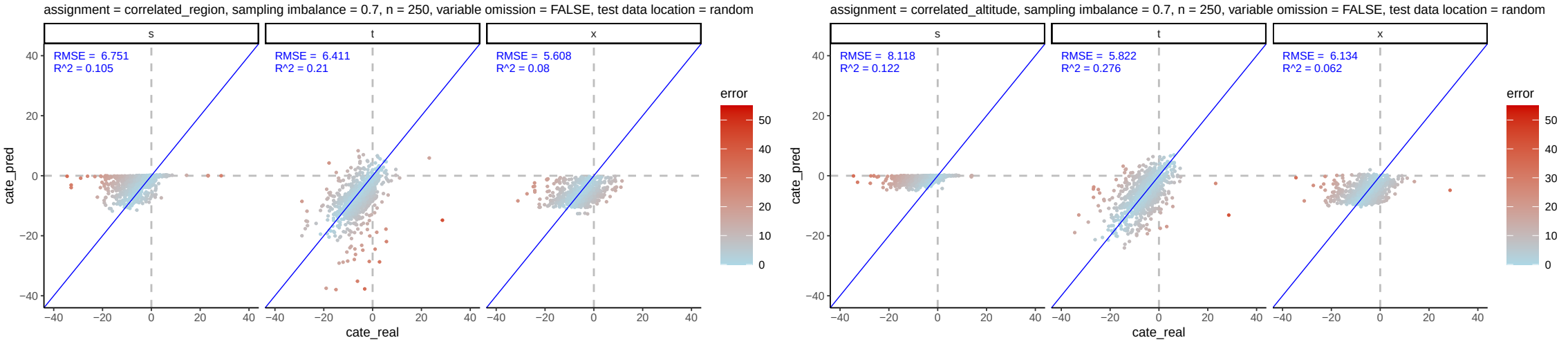

assignment = random, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 8.072
R^2 = 0.068
t
RMSE = 6.196
R^2 = 0.161
x
RMSE = 5.638
R^2 = 0.05
assignment = correlated_region, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 7.919
R^2 = 0.064
t
RMSE = 6.424
R^2 = 0.195
x
RMSE = 6.237
R^2 = 0.027
assignment = correlated_altitude, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = random
s
RMSE = 8.102
R^2 = 0.034
t
RMSE = 6.128
R^2 = 0.171
x
RMSE = 6.664
R^2 = 0.004
assignment = random, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = random
s
RMSE = 7.578
R^2 = 0.071
t
RMSE = 6.719
R^2 = 0.16
x
RMSE = 5.377
R^2 = 0.281
assignment = correlated_region, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = random
s
RMSE = 6.916
R^2 = 0.082
t
RMSE = 6.41
R^2 = 0.136
x
RMSE = 6.042
R^2 = 0.118
assignment = correlated_altitude, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = random
s
RMSE = 6.615
R^2 = 0.146
t
RMSE = 7.927
R^2 = 0.091
x
RMSE = 5.098
R^2 = 0.342
cate_pred
cate_real
error
40
20
0
−20
−40
50
30
10


assignment = random, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = random
s
t
x
RMSE = 6.573
R^2 = 0.111
RMSE = 6.438
R^2 = 0.212
RMSE = 5.7
R^2 = 0.069
cate_pred
cate_real
error

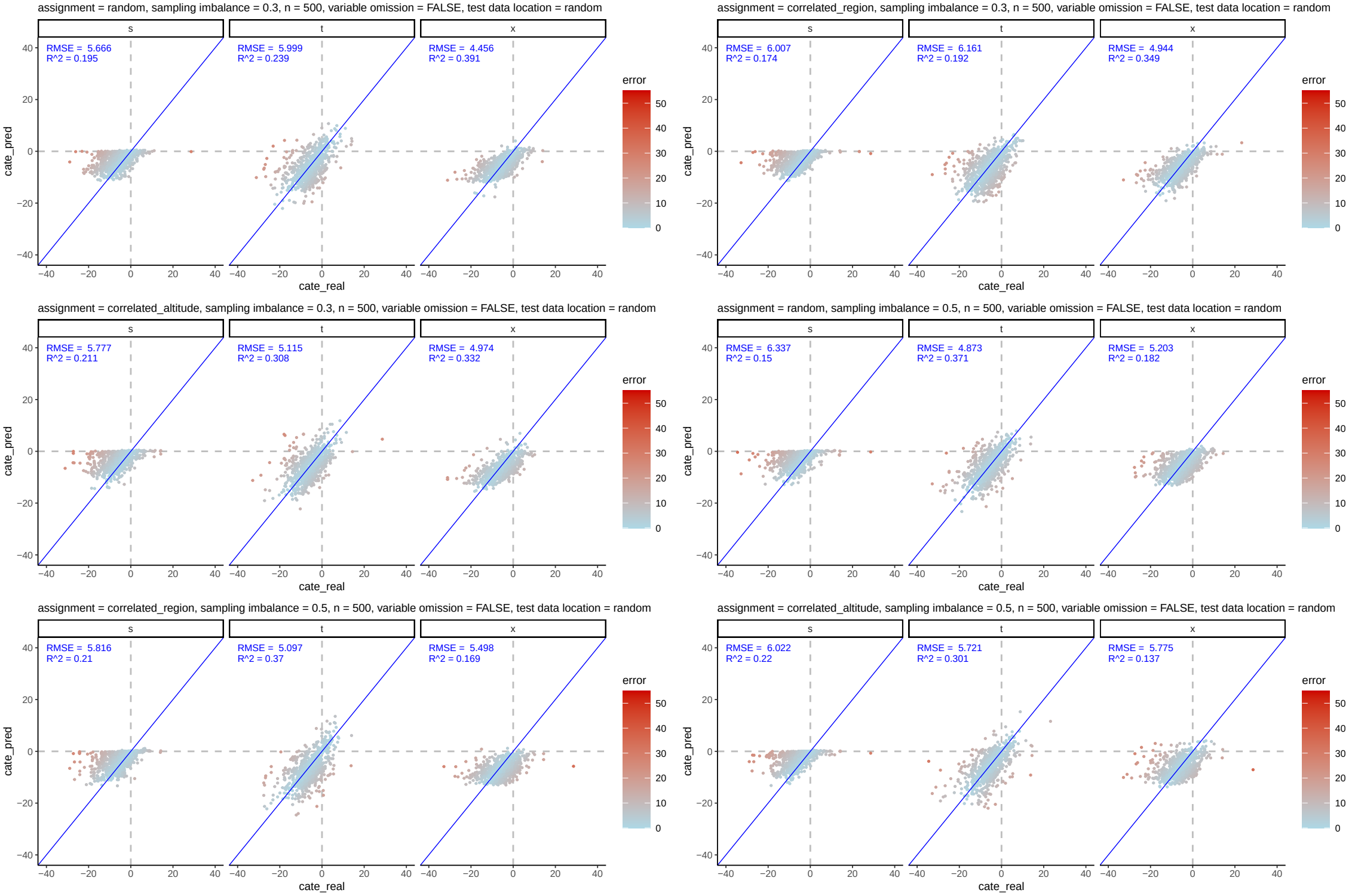
assignment = correlated_region, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = random
s
t
x
RMSE = 6.514
R^2 = 0.175
RMSE = 5.934
R^2 = 0.215
RMSE = 6.678
R^2 = 0.041
cate_pred
cate_real
error

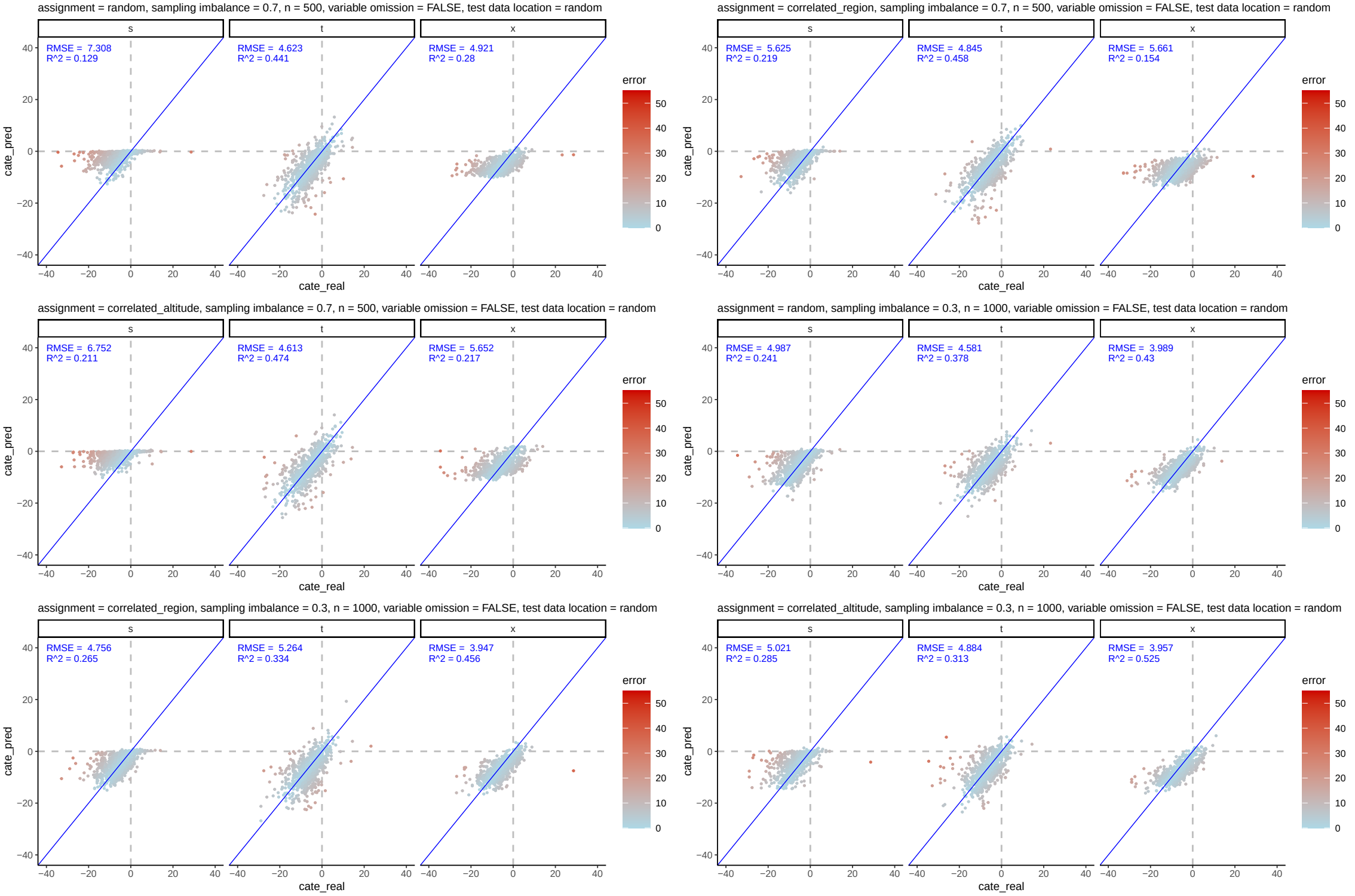

assignment = correlated_altitude, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = random
s
t
x
RMSE = 7.418
R^2 = 0.128
RMSE = 6.336
R^2 = 0.182
RMSE = 6.084
R^2 = 0.088
cate_pred
cate_real
error

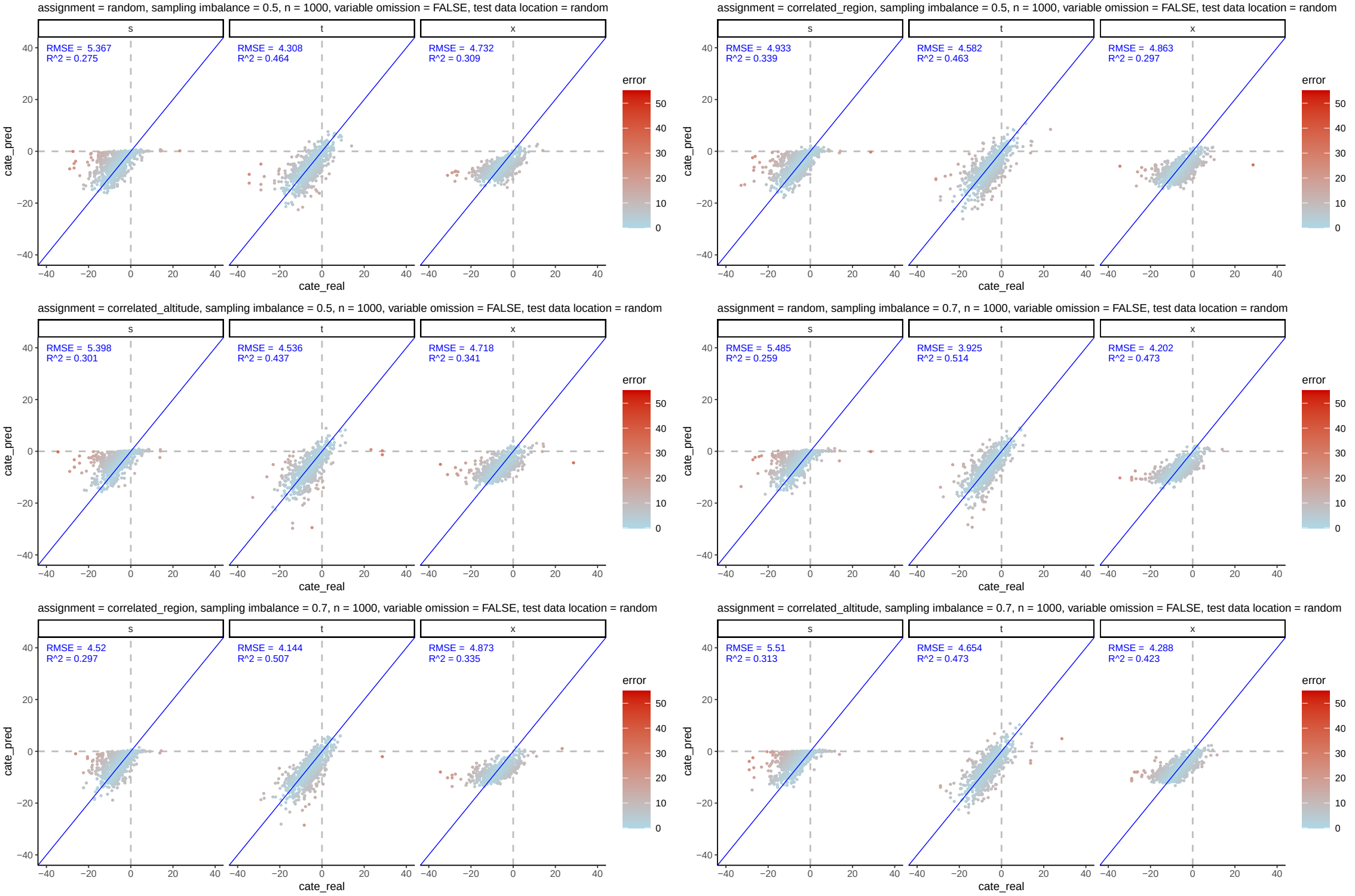
assignment = random, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = random
s
t
x
RMSE = 7.173
R^2 = 0.156
RMSE = 5.421
R^2 = 0.298
RMSE = 6.325
R^2 = 0.039
cate_pred
cate_real
error

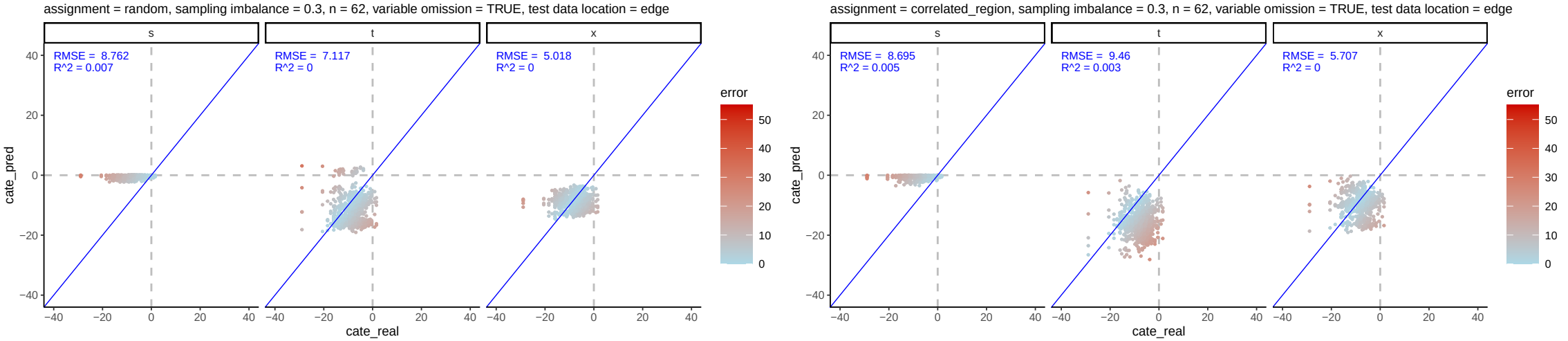

assignment = correlated_region, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = random
s
t
x
RMSE = 6.751
R^2 = 0.105
RMSE = 6.411
R^2 = 0.21
RMSE = 5.608
R^2 = 0.08
cate_pred
cate_real
error

assignment = correlated_altitude, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = random
s
t
x
RMSE = 8.118
R^2 = 0.122
RMSE = 5.822
R^2 = 0.276
RMSE = 6.134
R^2 = 0.062
cate_pred
cate_real
error

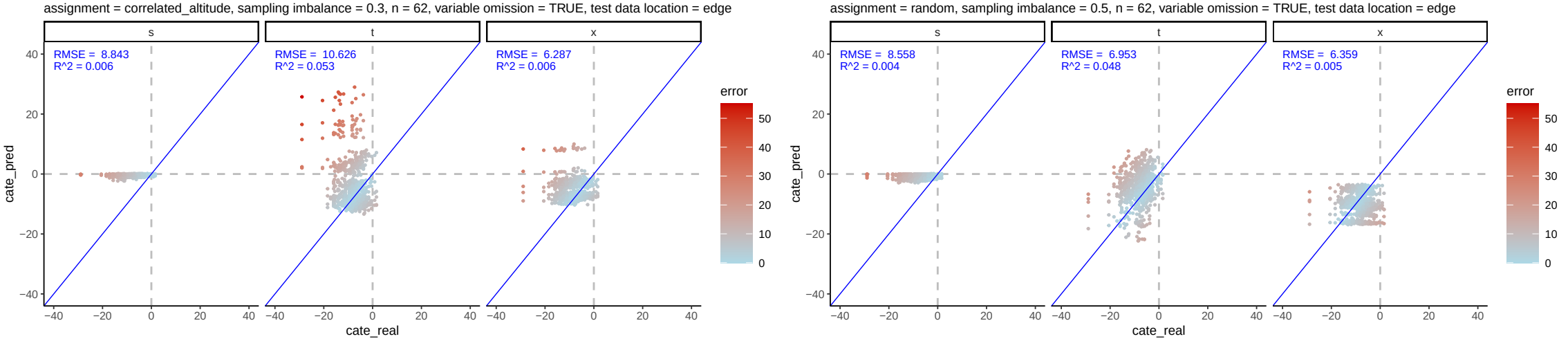

assignment = random, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = random
s
t
x
RMSE = 5.666
R^2 = 0.195
RMSE = 5.999
R^2 = 0.239
RMSE = 4.456
R^2 = 0.391
assignment = correlated_region, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = random
RMSE = 6.007
R^2 = 0.174
RMSE = 6.161
R^2 = 0.192
RMSE = 4.944
R^2 = 0.349
assignment = correlated_altitude, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = random
RMSE = 5.777
R^2 = 0.211
RMSE = 5.115
R^2 = 0.308
RMSE = 4.974
R^2 = 0.332
assignment = random, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = random
RMSE = 6.337
R^2 = 0.15
RMSE = 4.873
R^2 = 0.371
RMSE = 5.203
R^2 = 0.182
assignment = correlated_region, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = random
RMSE = 5.816
R^2 = 0.21
RMSE = 5.097
R^2 = 0.37
RMSE = 5.498
R^2 = 0.169
assignment = correlated_altitude, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = random
RMSE = 6.022
R^2 = 0.22
RMSE = 5.721
R^2 = 0.301
RMSE = 5.775
R^2 = 0.137
cate_pred
cate_real
error


assignment = random, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = random
s
t
x
RMSE = 7.308
R^2 = 0.129
RMSE = 4.623
R^2 = 0.441
RMSE = 4.921
R^2 = 0.28
assignment = correlated_region, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = random
RMSE = 5.625
R^2 = 0.219
RMSE = 4.845
R^2 = 0.458
RMSE = 5.661
R^2 = 0.154
assignment = correlated_altitude, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = random
RMSE = 6.752
R^2 = 0.211
RMSE = 4.613
R^2 = 0.474
RMSE = 5.652
R^2 = 0.217
assignment = random, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = random
RMSE = 4.987
R^2 = 0.241
RMSE = 4.581
R^2 = 0.378
RMSE = 3.989
R^2 = 0.43
assignment = correlated_region, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = random
RMSE = 4.756
R^2 = 0.265
RMSE = 5.264
R^2 = 0.334
RMSE = 3.947
R^2 = 0.456
assignment = correlated_altitude, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = random
RMSE = 5.021
R^2 = 0.285
RMSE = 4.884
R^2 = 0.313
RMSE = 3.957
R^2 = 0.525
cate_pred
cate_real
error

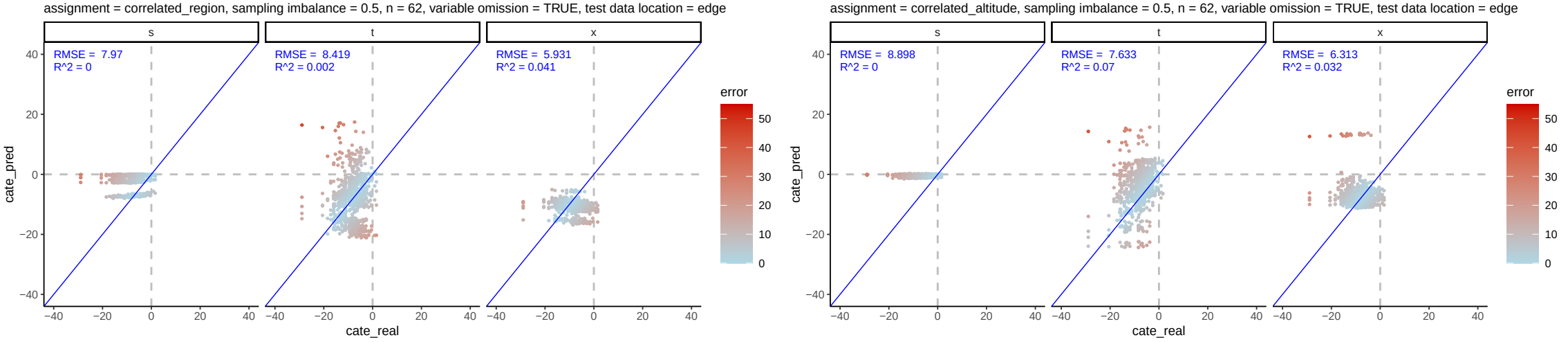

assignment = random, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = random
s
RMSE = 5.367
R^2 = 0.275
t
RMSE = 4.308
R^2 = 0.464
x
RMSE = 4.732
R^2 = 0.309
assignment = correlated_region, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = random
s
RMSE = 4.933
R^2 = 0.339
t
RMSE = 4.582
R^2 = 0.463
x
RMSE = 4.863
R^2 = 0.297
assignment = correlated_altitude, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = random
s
RMSE = 5.398
R^2 = 0.301
t
RMSE = 4.536
R^2 = 0.437
x
RMSE = 4.718
R^2 = 0.341
assignment = random, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = random
s
RMSE = 5.485
R^2 = 0.259
t
RMSE = 3.925
R^2 = 0.514
x
RMSE = 4.202
R^2 = 0.473
assignment = correlated_region, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = random
s
RMSE = 4.52
R^2 = 0.297
t
RMSE = 4.144
R^2 = 0.507
x
RMSE = 4.873
R^2 = 0.335
assignment = correlated_altitude, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = random
s
RMSE = 5.51
R^2 = 0.313
t
RMSE = 4.654
R^2 = 0.473
x
RMSE = 4.288
R^2 = 0.423
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50


assignment = random, sampling imbalance = 0.3, n = 62, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 8.762
R^2 = 0.007
RMSE = 7.117
R^2 = 0
RMSE = 5.018
R^2 = 0
cate_pred
cate_real
error

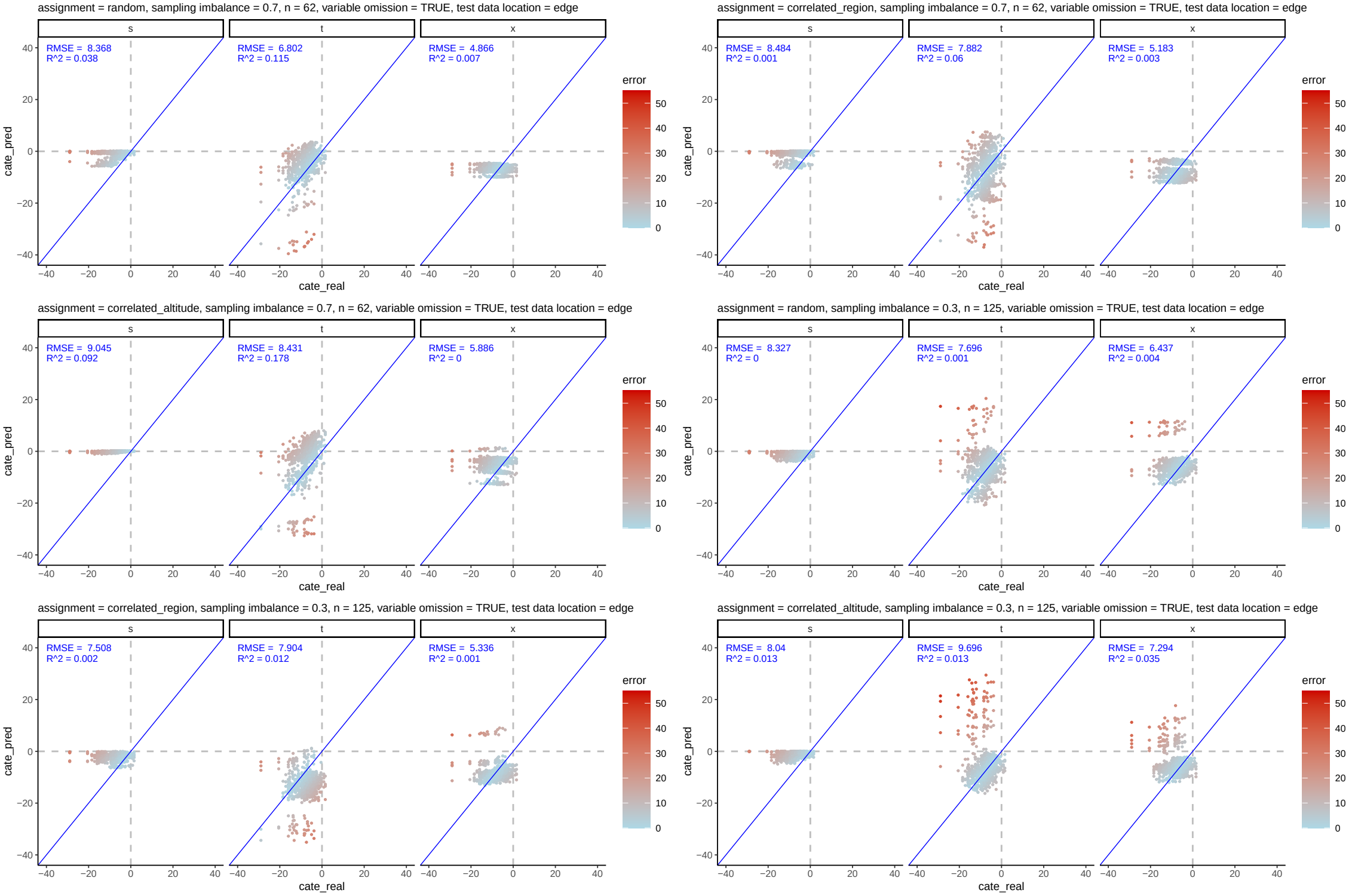
assignment = correlated_region, sampling imbalance = 0.3, n = 62, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 8.695
R^2 = 0.005
RMSE = 9.46
R^2 = 0.003
RMSE = 5.707
R^2 = 0
cate_pred
cate_real
error

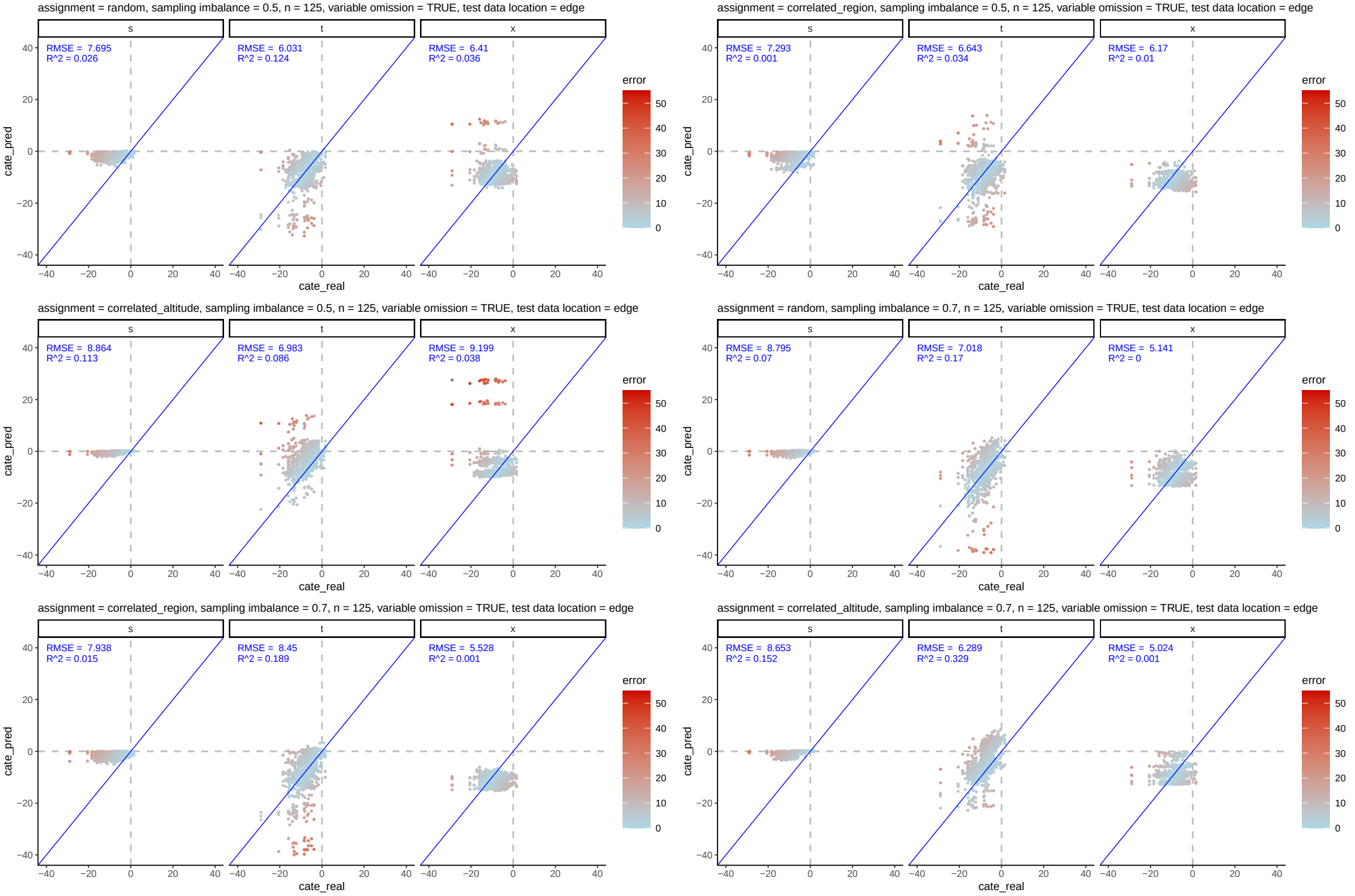

assignment = correlated_altitude, sampling imbalance = 0.3, n = 62, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 8.843
R^2 = 0.006
RMSE = 10.626
R^2 = 0.053
RMSE = 6.287
R^2 = 0.006
cate_pred
cate_real
error

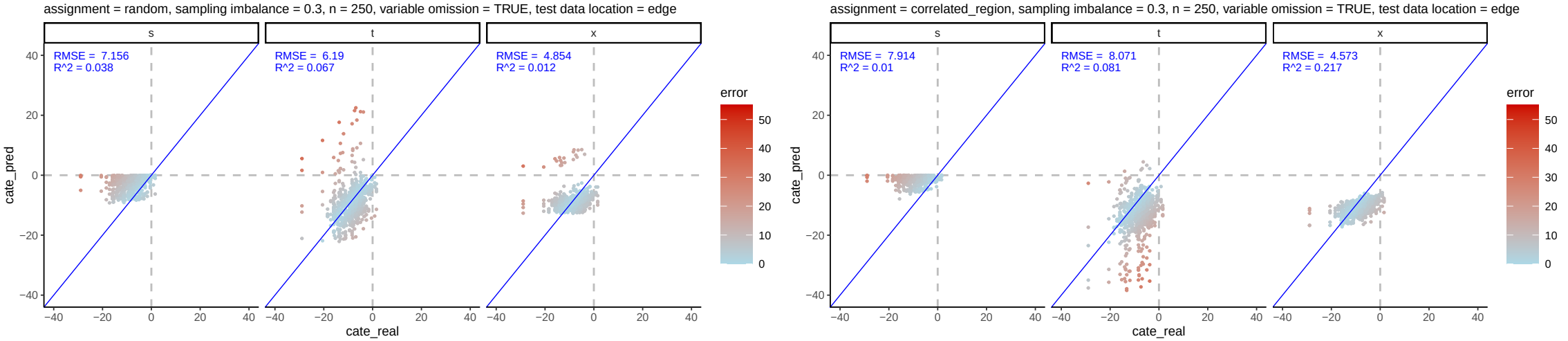
assignment = random, sampling imbalance = 0.5, n = 62, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 8.558
R^2 = 0.004
RMSE = 6.953
R^2 = 0.048
RMSE = 6.359
R^2 = 0.005
cate_pred
cate_real
error

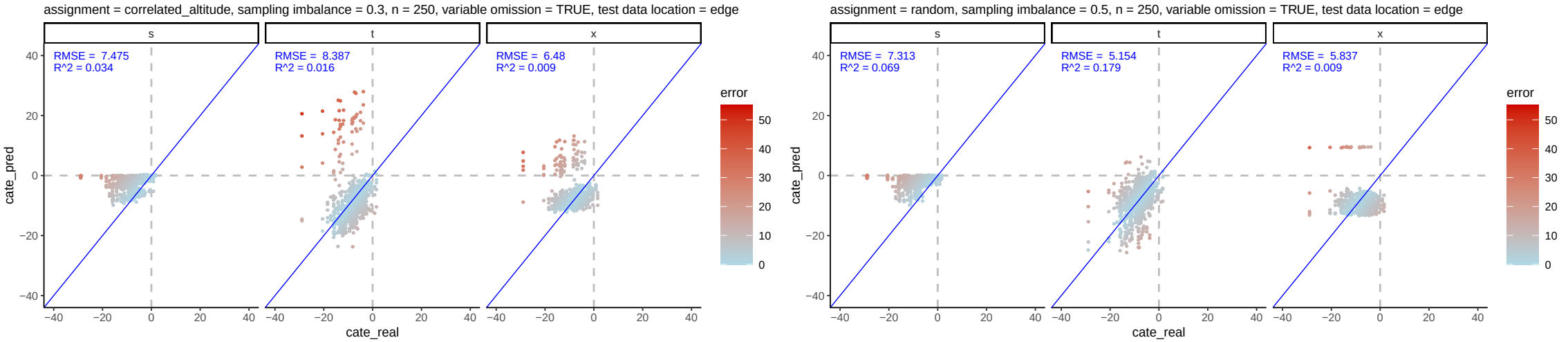

assignment = correlated_region, sampling imbalance = 0.5, n = 62, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 7.97
R^2 = 0
RMSE = 8.419
R^2 = 0.002
RMSE = 5.931
R^2 = 0.041
cate_pred
cate_real
error

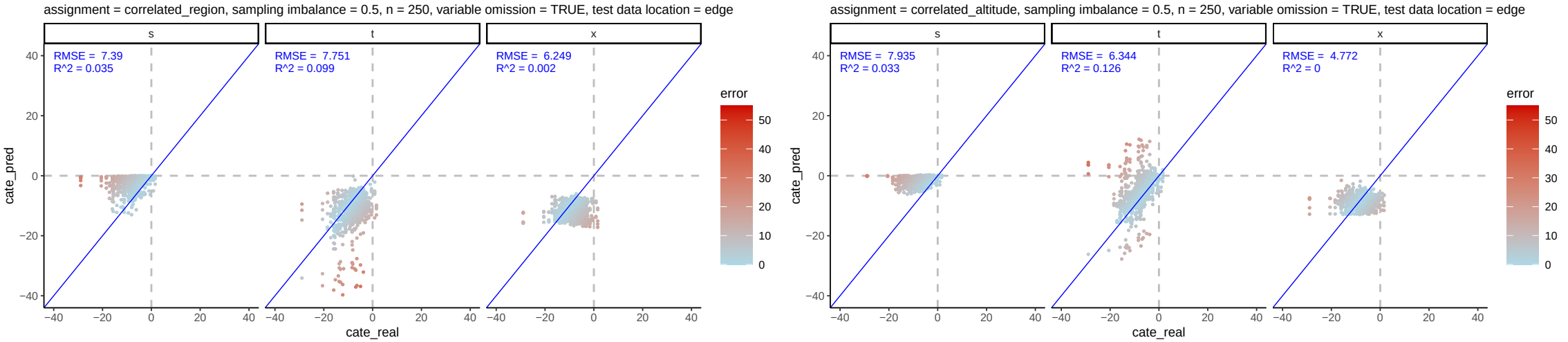
assignment = correlated_altitude, sampling imbalance = 0.5, n = 62, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 8.898
R^2 = 0
RMSE = 7.633
R^2 = 0.07
RMSE = 6.313
R^2 = 0.032
cate_pred
cate_real
error

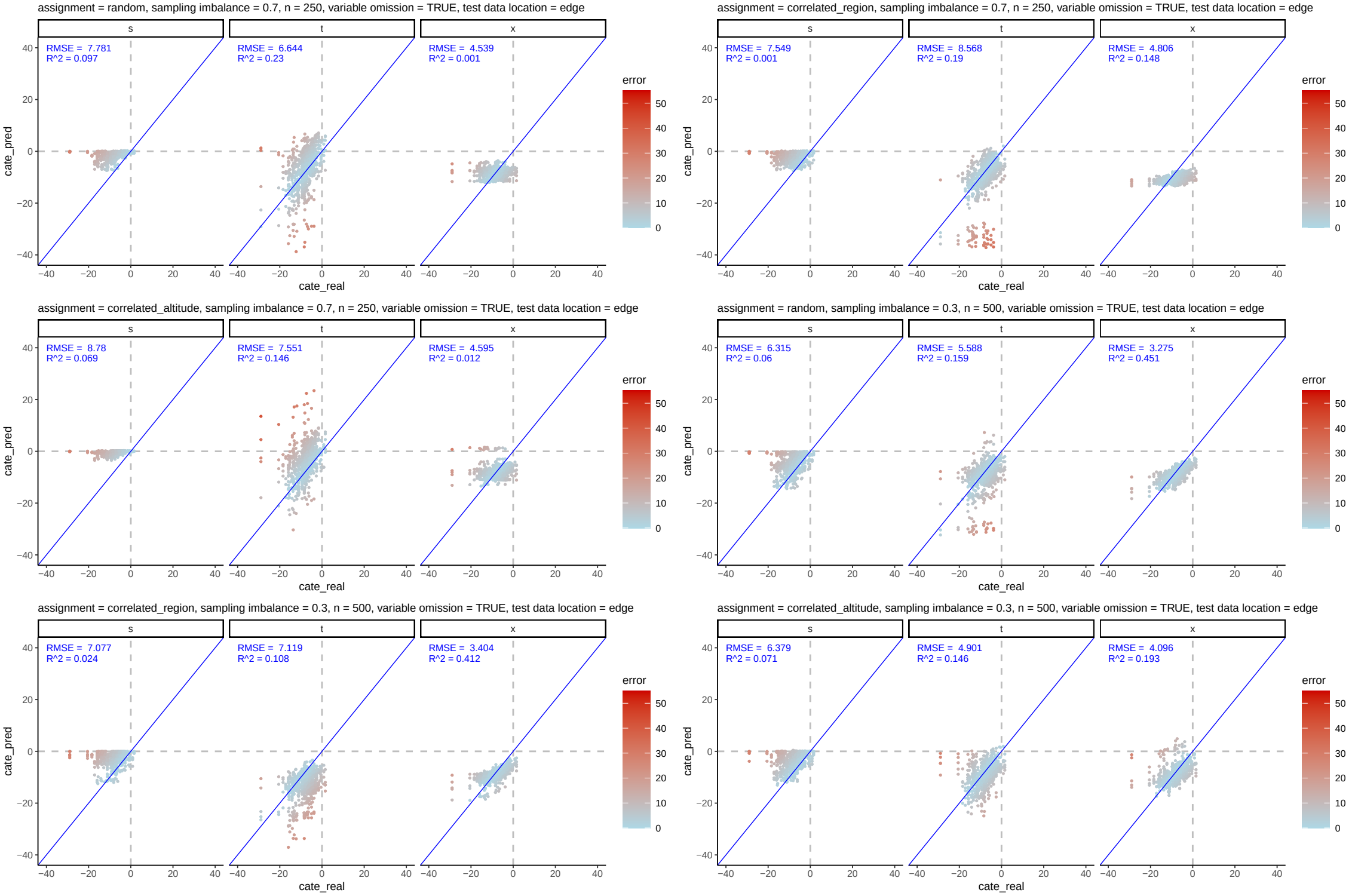

assignment = random, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = edge
s
RMSE = 8.368
R^2 = 0.038
t
RMSE = 6.802
R^2 = 0.115
x
RMSE = 4.866
R^2 = 0.007
assignment = correlated_region, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = edge
s
RMSE = 8.484
R^2 = 0.001
t
RMSE = 7.882
R^2 = 0.06
x
RMSE = 5.183
R^2 = 0.003
assignment = correlated_altitude, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = edge
s
RMSE = 9.045
R^2 = 0.092
t
RMSE = 8.431
R^2 = 0.178
x
RMSE = 5.886
R^2 = 0
assignment = random, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 8.327
R^2 = 0
t
RMSE = 7.696
R^2 = 0.001
x
RMSE = 6.437
R^2 = 0.004
assignment = correlated_region, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 7.508
R^2 = 0.002
t
RMSE = 7.904
R^2 = 0.012
x
RMSE = 5.336
R^2 = 0.001
assignment = correlated_altitude, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 8.04
R^2 = 0.013
t
RMSE = 9.696
R^2 = 0.013
x
RMSE = 7.294
R^2 = 0.035
cate_pred
cate_real
error
40
20
0
−20
−40

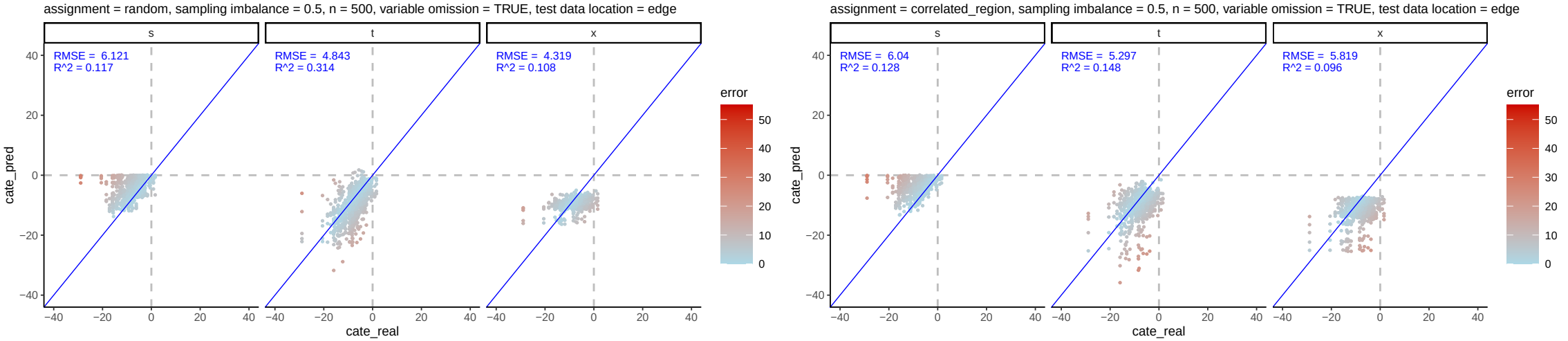

assignment = random, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 7.695
R^2 = 0.026
t
RMSE = 6.031
R^2 = 0.124
x
RMSE = 6.41
R^2 = 0.036
assignment = correlated_region, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 7.293
R^2 = 0.001
t
RMSE = 6.643
R^2 = 0.034
x
RMSE = 6.17
R^2 = 0.01
assignment = correlated_altitude, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 8.864
R^2 = 0.113
t
RMSE = 6.983
R^2 = 0.086
x
RMSE = 9.199
R^2 = 0.038
assignment = random, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 8.795
R^2 = 0.07
t
RMSE = 7.018
R^2 = 0.17
x
RMSE = 5.141
R^2 = 0
assignment = correlated_region, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 7.938
R^2 = 0.015
t
RMSE = 8.45
R^2 = 0.189
x
RMSE = 5.528
R^2 = 0.001
assignment = correlated_altitude, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = edge
s
RMSE = 8.653
R^2 = 0.152
t
RMSE = 6.289
R^2 = 0.329
x
RMSE = 5.024
R^2 = 0.001
cate_pred
cate_real
error
40
20
0
−20
−40

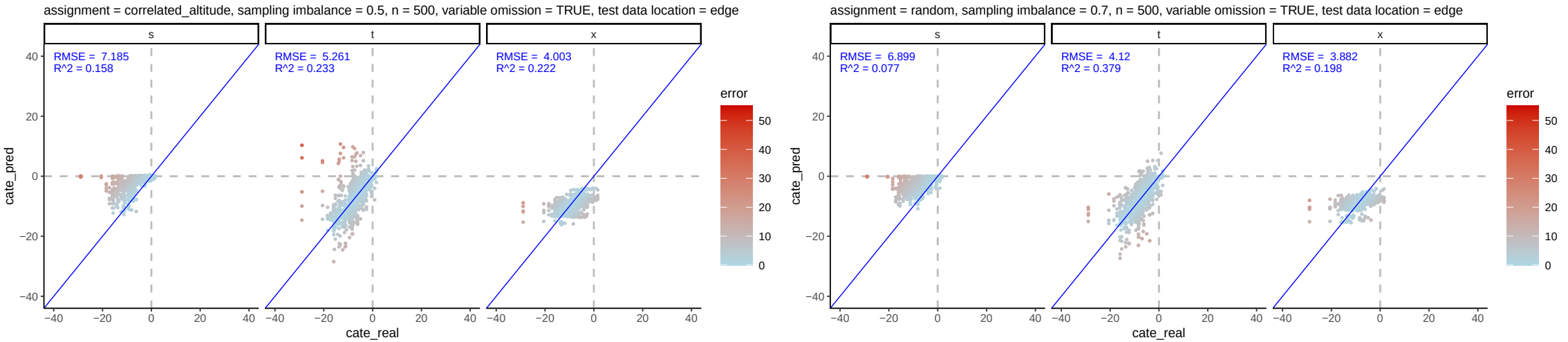

assignment = random, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 7.156
R^2 = 0.038
RMSE = 6.19
R^2 = 0.067
RMSE = 4.854
R^2 = 0.012
cate_pred
cate_real
error
assignment = correlated_region, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = edge
RMSE = 7.914
R^2 = 0.01
RMSE = 8.071
R^2 = 0.081
RMSE = 4.573
R^2 = 0.217

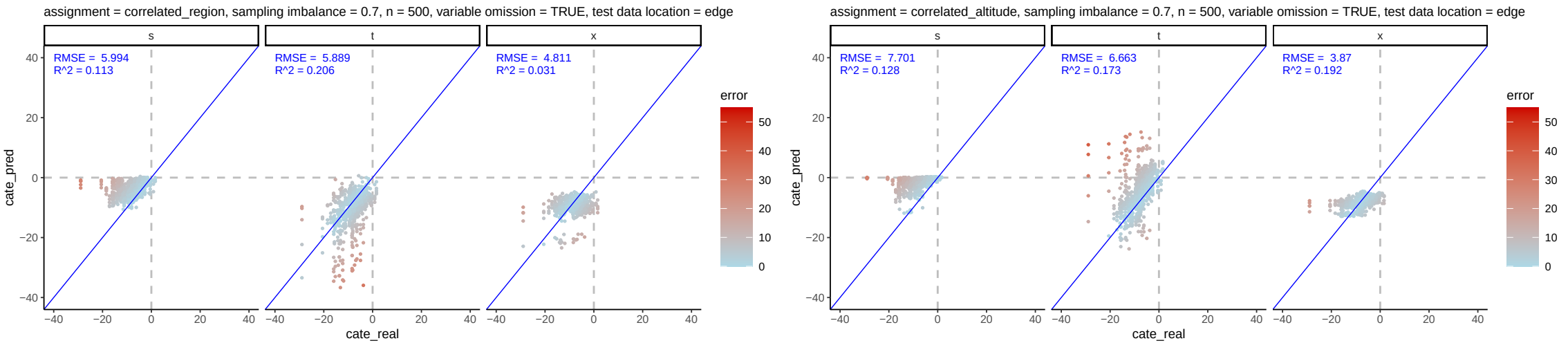

assignment = correlated_altitude, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 7.475
R^2 = 0.034
RMSE = 8.387
R^2 = 0.016
RMSE = 6.48
R^2 = 0.009
cate_pred
cate_real
error
assignment = random, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = edge
RMSE = 7.313
R^2 = 0.069
RMSE = 5.154
R^2 = 0.179
RMSE = 5.837
R^2 = 0.009

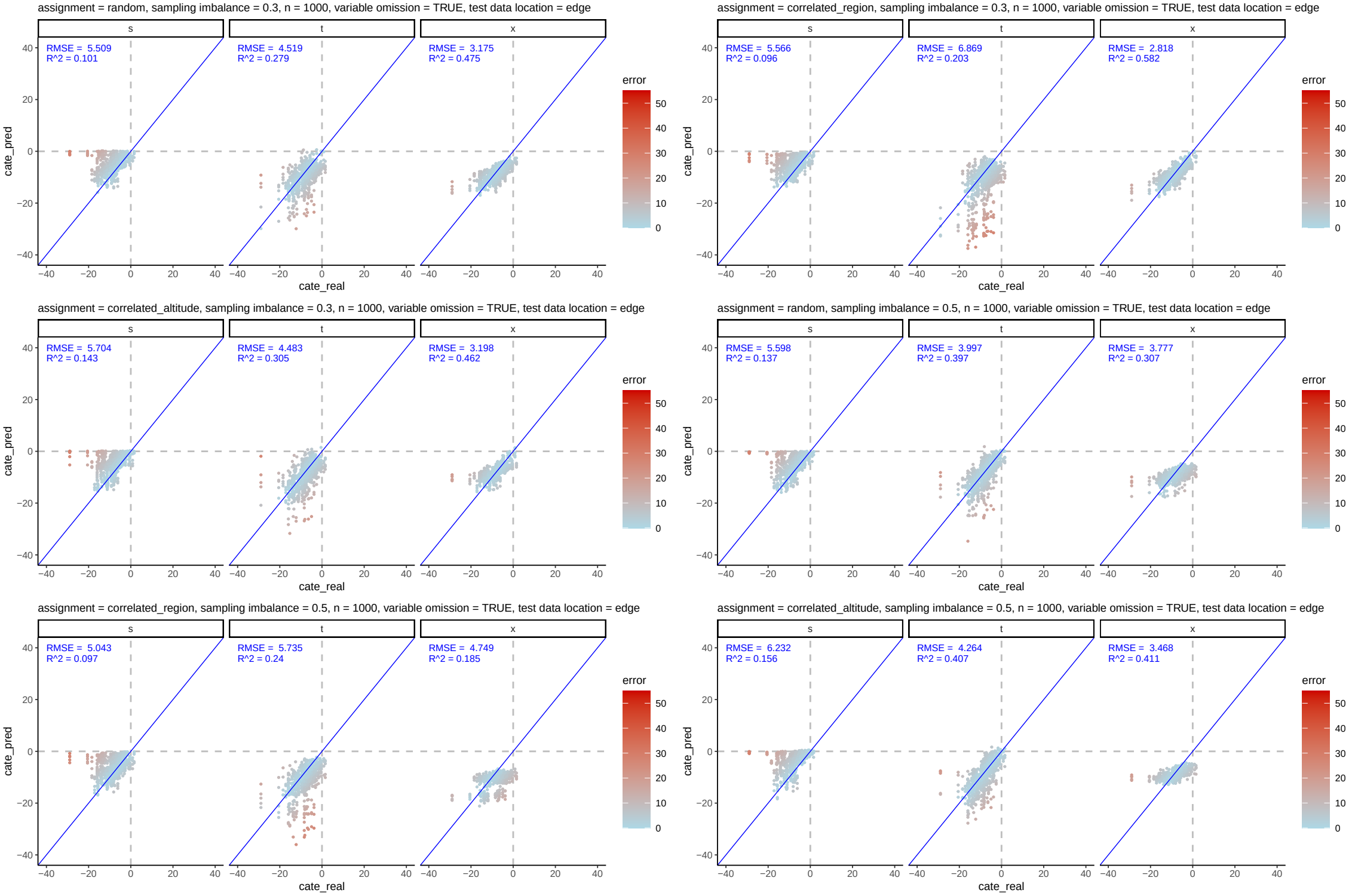

assignment = correlated_region, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 7.39
R^2 = 0.035
RMSE = 7.751
R^2 = 0.099
RMSE = 6.249
R^2 = 0.002
cate_pred
cate_real
error
assignment = correlated_altitude, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = edge
RMSE = 7.935
R^2 = 0.033
RMSE = 6.344
R^2 = 0.126
RMSE = 4.772
R^2 = 0

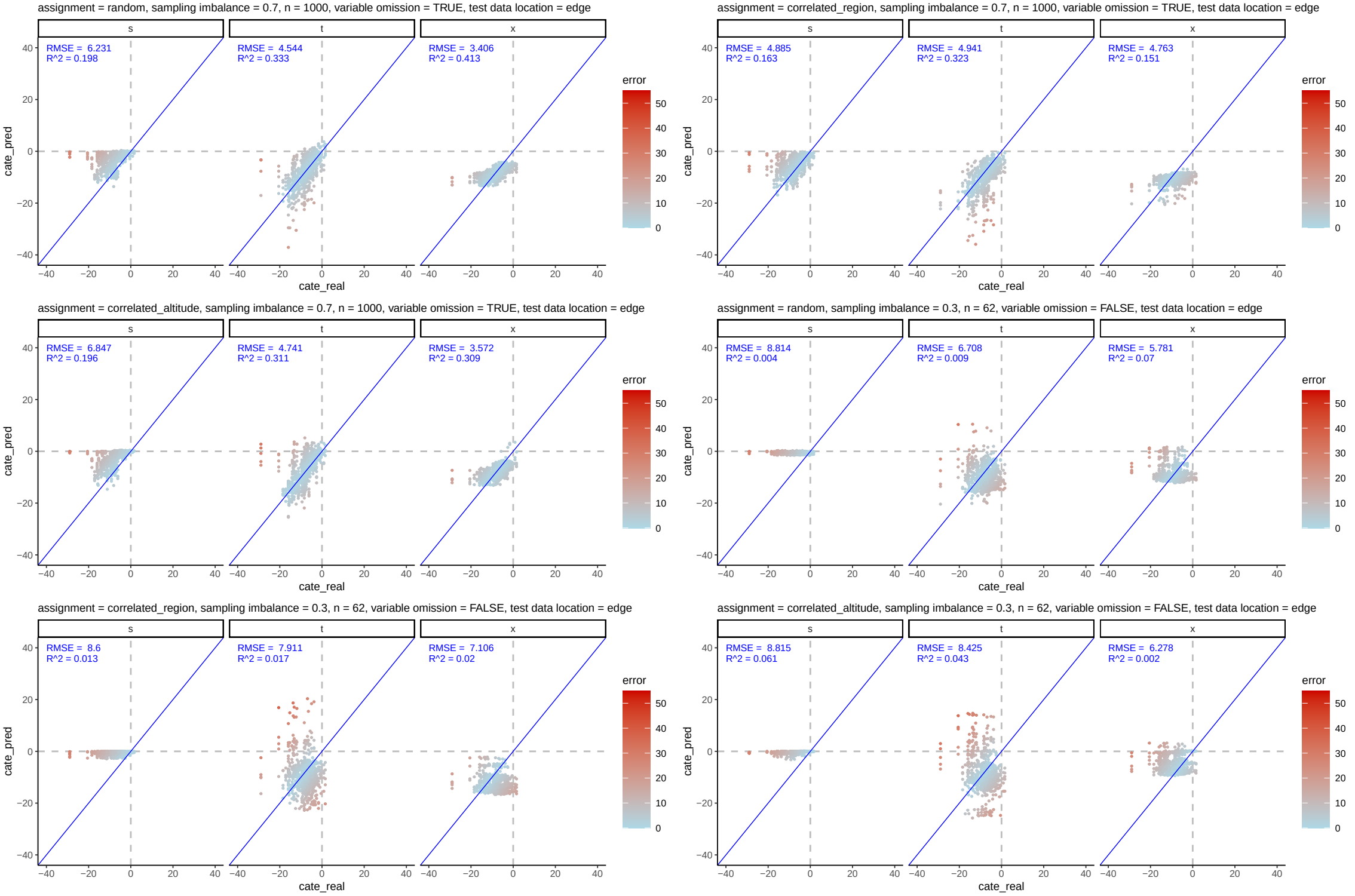

assignment = random, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = edge
s
RMSE = 7.781
R^2 = 0.097
t
RMSE = 6.644
R^2 = 0.23
x
RMSE = 4.539
R^2 = 0.001
assignment = correlated_region, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = edge
s
RMSE = 7.549
R^2 = 0.001
t
RMSE = 8.568
R^2 = 0.19
x
RMSE = 4.806
R^2 = 0.148
assignment = correlated_altitude, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = edge
s
RMSE = 8.78
R^2 = 0.069
t
RMSE = 7.551
R^2 = 0.146
x
RMSE = 4.595
R^2 = 0.012
assignment = random, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = edge
s
RMSE = 6.315
R^2 = 0.06
t
RMSE = 5.588
R^2 = 0.159
x
RMSE = 3.275
R^2 = 0.451
assignment = correlated_region, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = edge
s
RMSE = 7.077
R^2 = 0.024
t
RMSE = 7.119
R^2 = 0.108
x
RMSE = 3.404
R^2 = 0.412
assignment = correlated_altitude, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = edge
s
RMSE = 6.379
R^2 = 0.071
t
RMSE = 4.901
R^2 = 0.146
x
RMSE = 4.096
R^2 = 0.193
cate_pred
cate_real
error
40
20
0
−20
−40

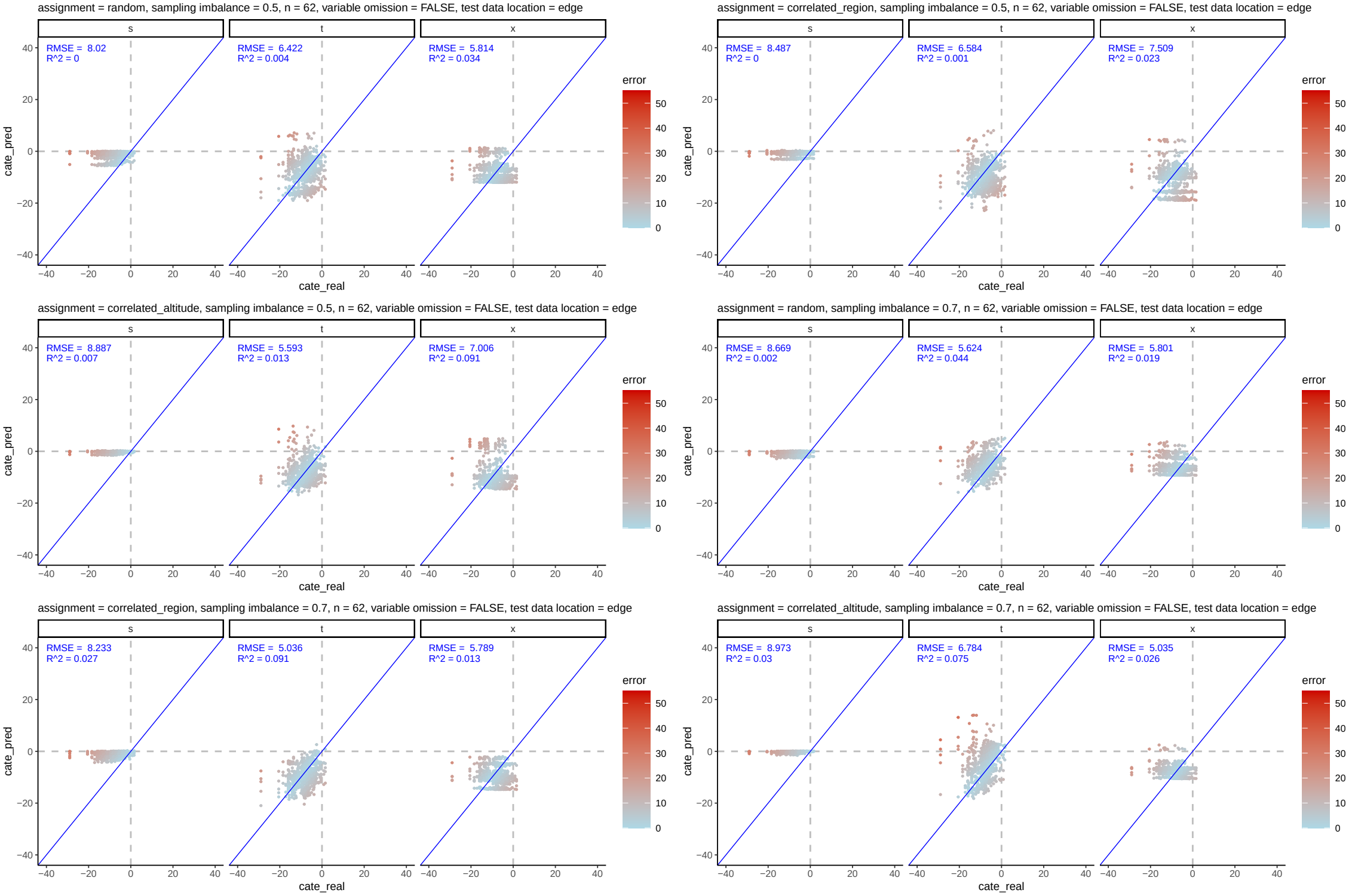

assignment = random, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 6.121
R^2 = 0.117
RMSE = 4.843
R^2 = 0.314
RMSE = 4.319
R^2 = 0.108
cate_pred
cate_real
error
assignment = correlated_region, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = edge
RMSE = 6.04
R^2 = 0.128
RMSE = 5.297
R^2 = 0.148
RMSE = 5.819
R^2 = 0.096

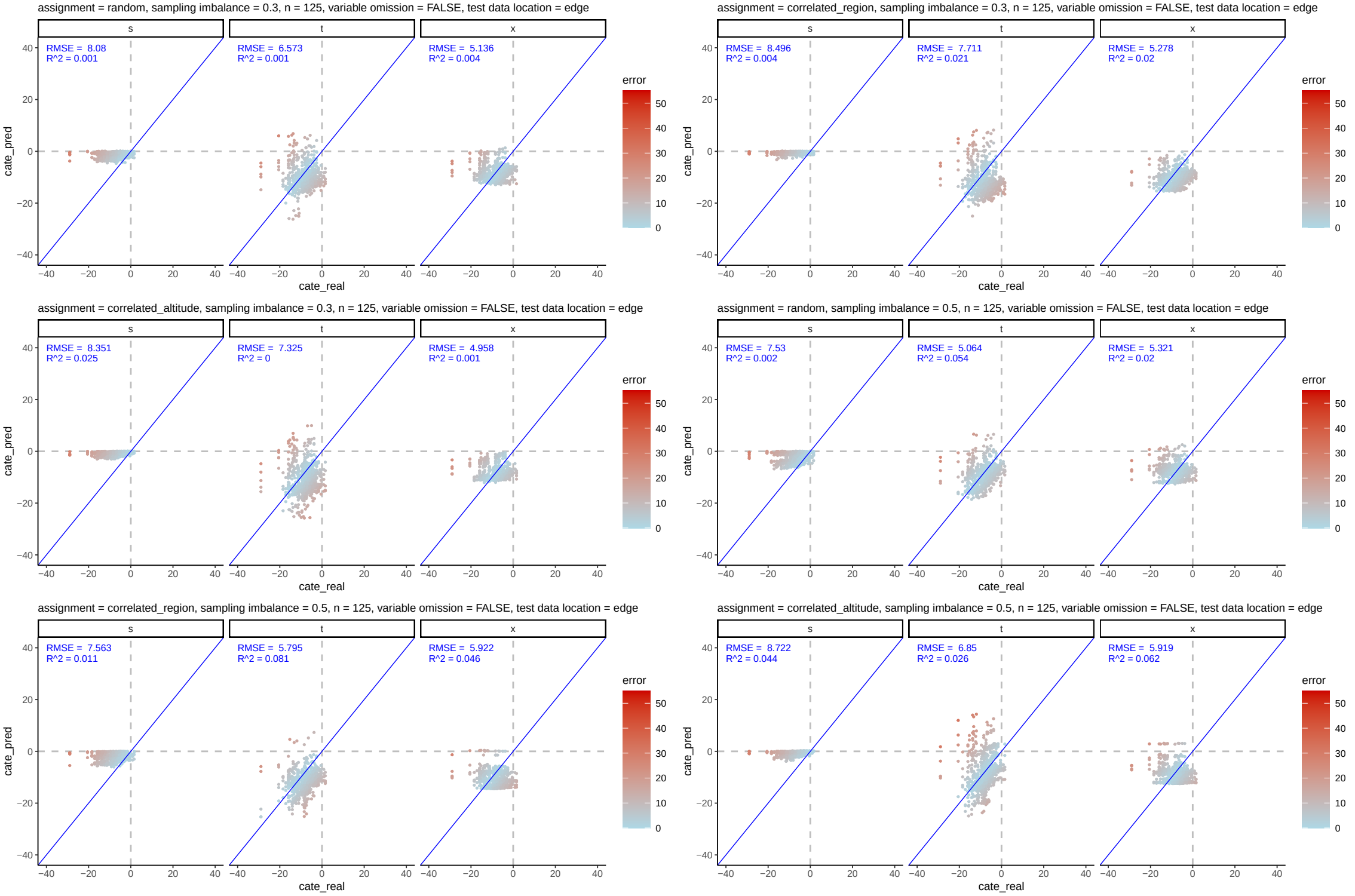

assignment = correlated_altitude, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 7.185
R^2 = 0.158
RMSE = 5.261
R^2 = 0.233
RMSE = 4.003
R^2 = 0.222
cate_pred
cate_real
error
assignment = random, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = edge
RMSE = 6.899
R^2 = 0.077
RMSE = 4.12
R^2 = 0.379
RMSE = 3.882
R^2 = 0.198

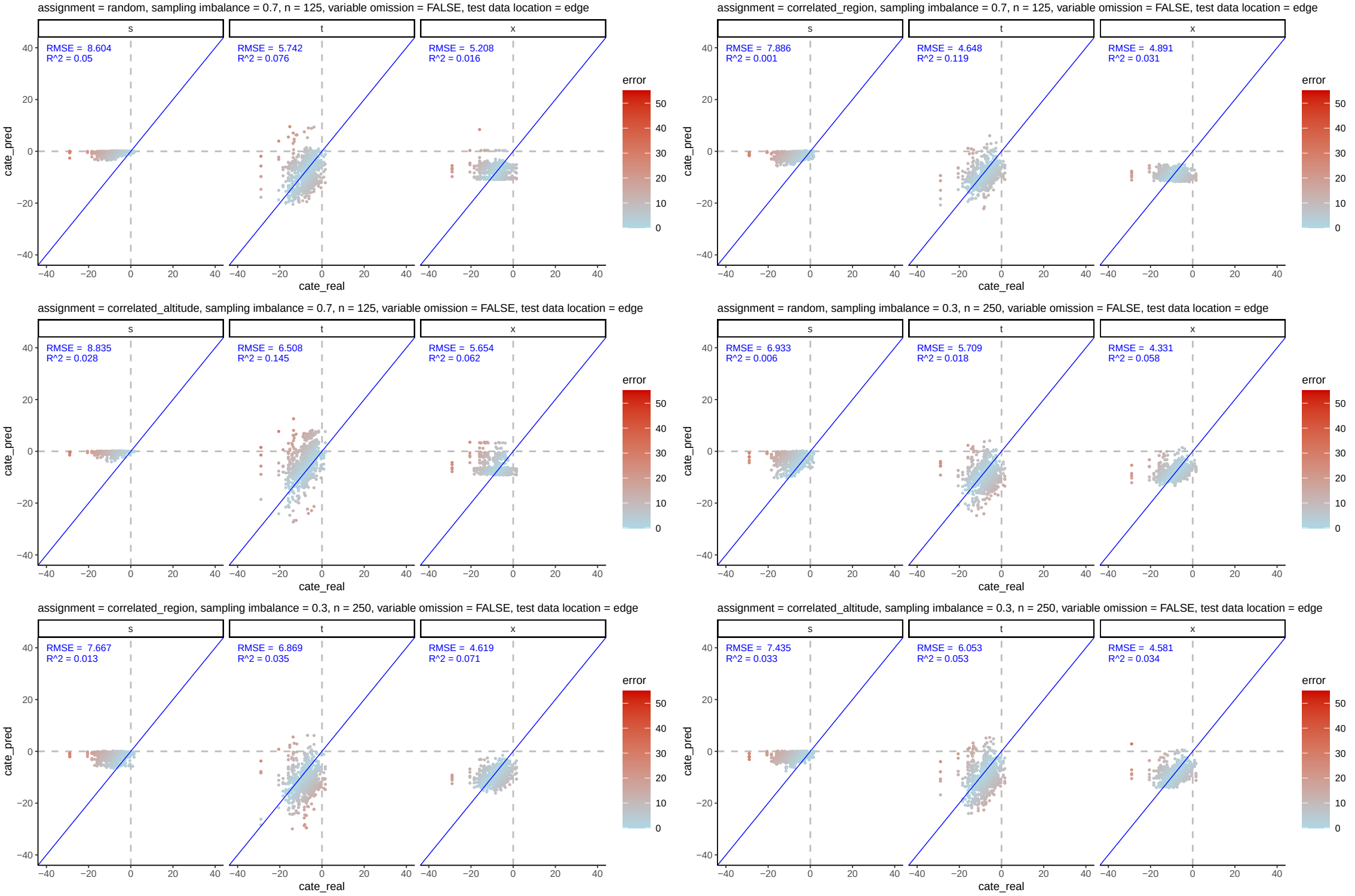

assignment = correlated_region, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 5.994
R^2 = 0.113
RMSE = 5.889
R^2 = 0.206
RMSE = 4.811
R^2 = 0.031
cate_pred
cate_real
error
assignment = correlated_altitude, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = edge
RMSE = 7.701
R^2 = 0.128
RMSE = 6.663
R^2 = 0.173
RMSE = 3.87
R^2 = 0.192

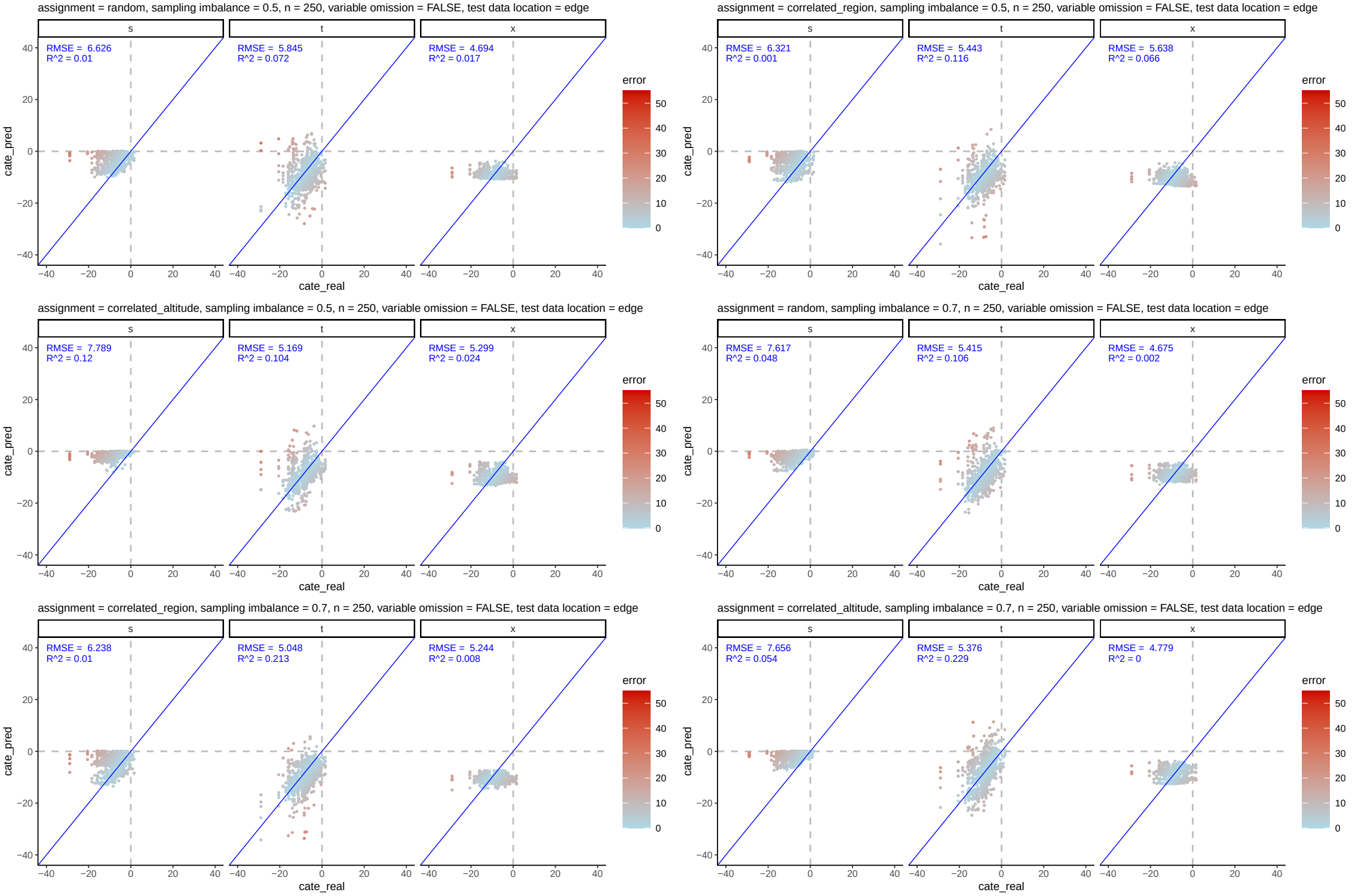

assignment = random, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = edge
s
t
x
RMSE = 5.509
R^2 = 0.101
RMSE = 4.519
R^2 = 0.279
RMSE = 3.175
R^2 = 0.475
assignment = correlated_region, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = edge
RMSE = 5.566
R^2 = 0.096
RMSE = 6.869
R^2 = 0.203
RMSE = 2.818
R^2 = 0.582
assignment = correlated_altitude, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = edge
RMSE = 5.704
R^2 = 0.143
RMSE = 4.483
R^2 = 0.305
RMSE = 3.198
R^2 = 0.462
assignment = random, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = edge
RMSE = 5.598
R^2 = 0.137
RMSE = 3.997
R^2 = 0.397
RMSE = 3.777
R^2 = 0.307
assignment = correlated_region, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = edge
RMSE = 5.043
R^2 = 0.097
RMSE = 5.735
R^2 = 0.24
RMSE = 4.749
R^2 = 0.185
assignment = correlated_altitude, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = edge
RMSE = 6.232
R^2 = 0.156
RMSE = 4.264
R^2 = 0.407
RMSE = 3.468
R^2 = 0.411
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50

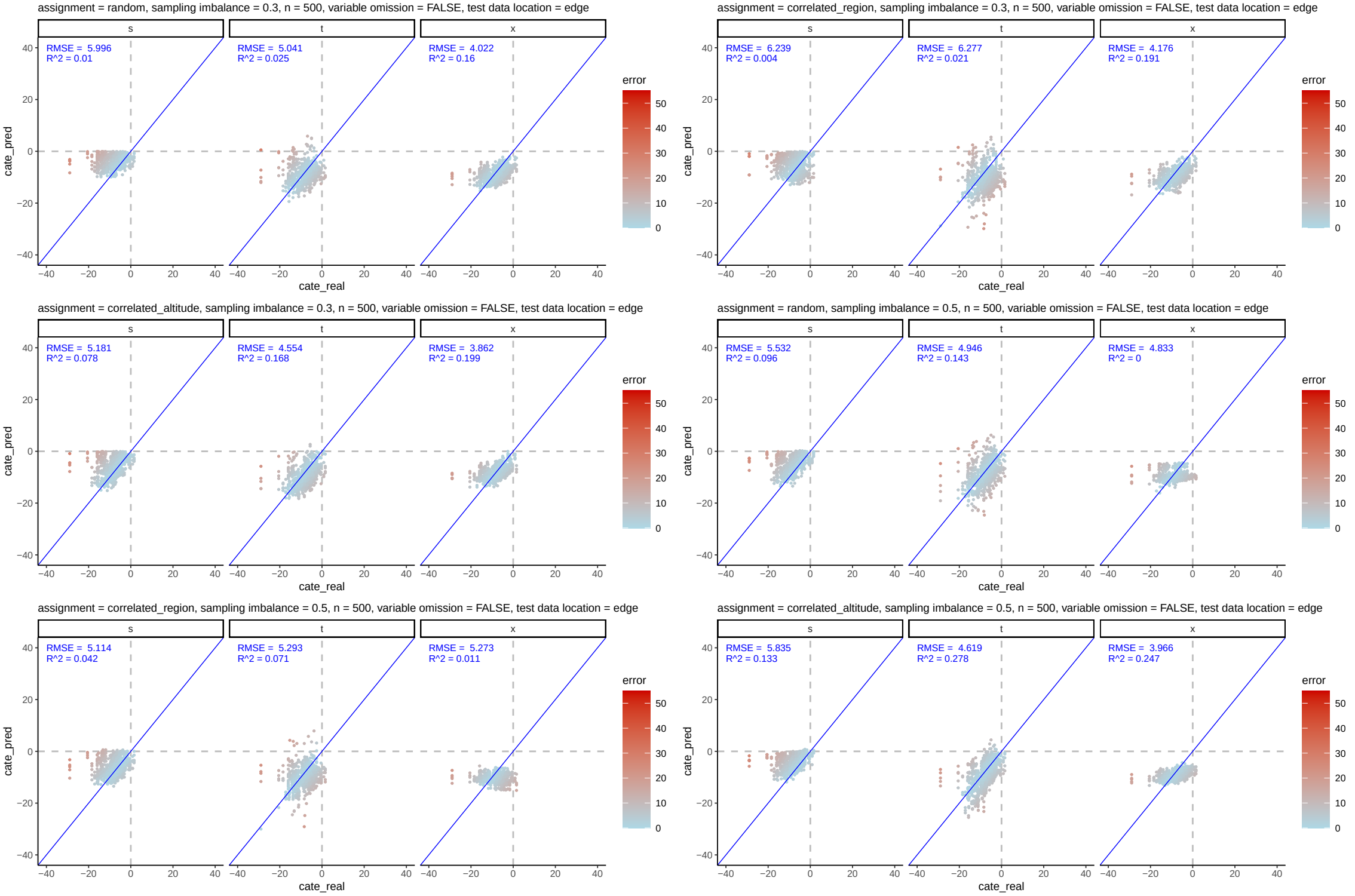

assignment = random, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = edge
s
RMSE = 6.231
R^2 = 0.198
t
RMSE = 4.544
R^2 = 0.333
x
RMSE = 3.406
R^2 = 0.413
assignment = correlated_region, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = edge
s
RMSE = 4.885
R^2 = 0.163
t
RMSE = 4.941
R^2 = 0.323
x
RMSE = 4.763
R^2 = 0.151
assignment = correlated_altitude, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = edge
s
RMSE = 6.847
R^2 = 0.196
t
RMSE = 4.741
R^2 = 0.311
x
RMSE = 3.572
R^2 = 0.309
assignment = random, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.814
R^2 = 0.004
t
RMSE = 6.708
R^2 = 0.009
x
RMSE = 5.781
R^2 = 0.07
assignment = correlated_region, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.6
R^2 = 0.013
t
RMSE = 7.911
R^2 = 0.017
x
RMSE = 7.106
R^2 = 0.02
assignment = correlated_altitude, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.815
R^2 = 0.061
t
RMSE = 8.425
R^2 = 0.043
x
RMSE = 6.278
R^2 = 0.002
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50

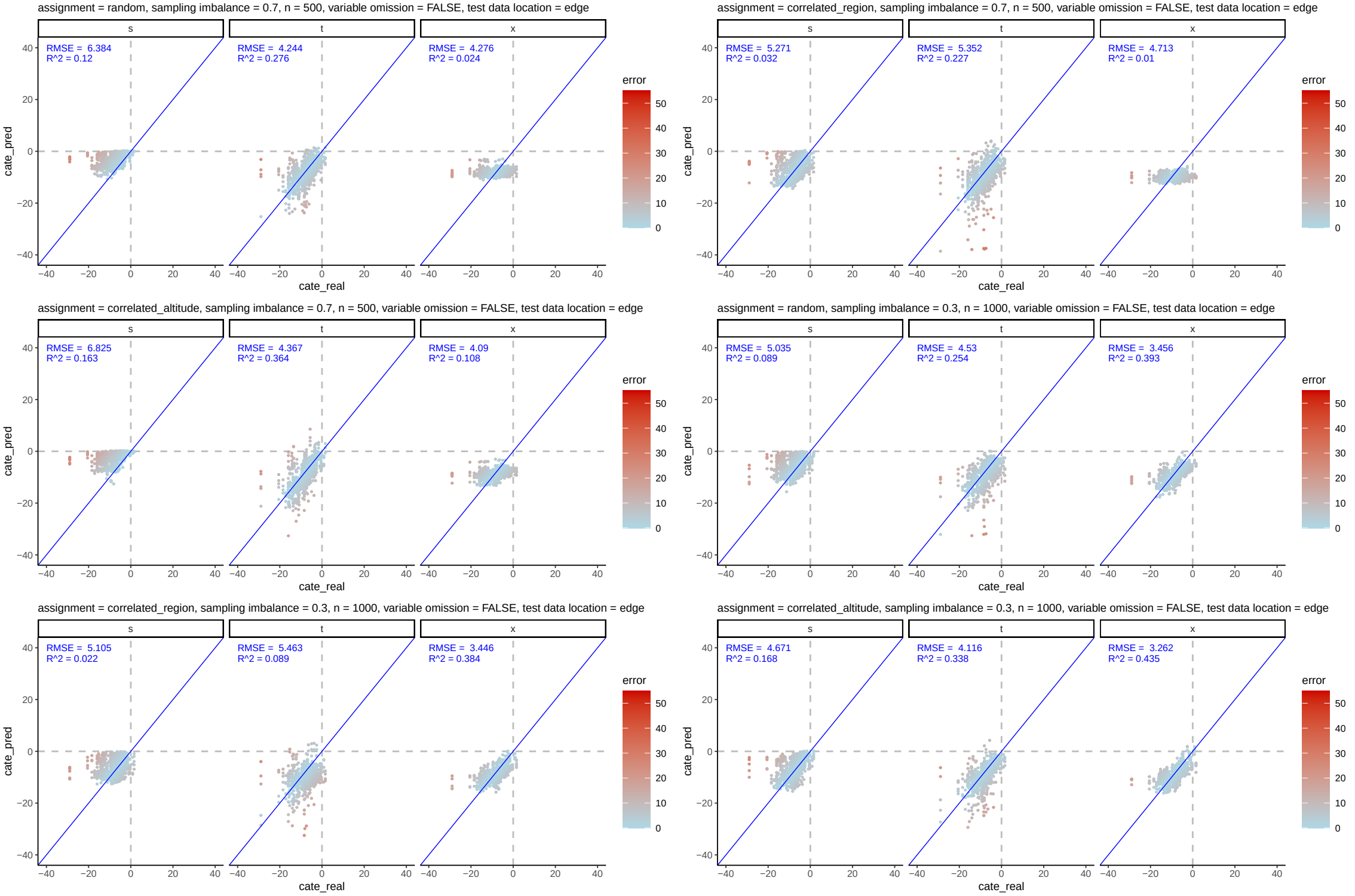

assignment = random, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.02
R^2 = 0
t
RMSE = 6.422
R^2 = 0.004
x
RMSE = 5.814
R^2 = 0.034
assignment = correlated_region, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.487
R^2 = 0
t
RMSE = 6.584
R^2 = 0.001
x
RMSE = 7.509
R^2 = 0.023
assignment = correlated_altitude, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.887
R^2 = 0.007
t
RMSE = 5.593
R^2 = 0.013
x
RMSE = 7.006
R^2 = 0.091
assignment = random, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.669
R^2 = 0.002
t
RMSE = 5.624
R^2 = 0.044
x
RMSE = 5.801
R^2 = 0.019
assignment = correlated_region, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.233
R^2 = 0.027
t
RMSE = 5.036
R^2 = 0.091
x
RMSE = 5.789
R^2 = 0.013
assignment = correlated_altitude, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = edge
s
RMSE = 8.973
R^2 = 0.03
t
RMSE = 6.784
R^2 = 0.075
x
RMSE = 5.035
R^2 = 0.026
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50

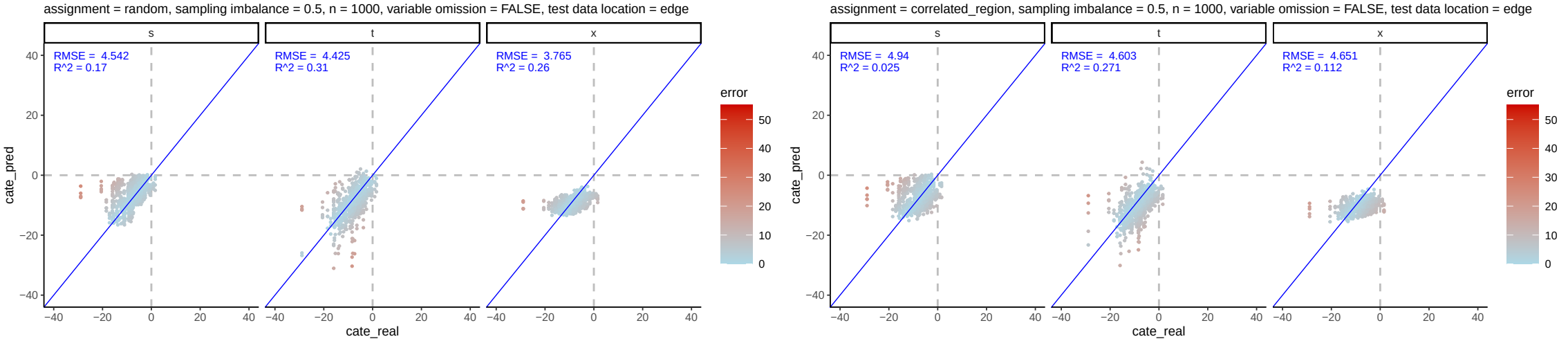

assignment = random, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 8.08
R^2 = 0.001
t
RMSE = 6.573
R^2 = 0.001
x
RMSE = 5.136
R^2 = 0.004
assignment = correlated_region, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 8.496
R^2 = 0.004
t
RMSE = 7.711
R^2 = 0.021
x
RMSE = 5.278
R^2 = 0.02
assignment = correlated_altitude, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 8.351
R^2 = 0.025
t
RMSE = 7.325
R^2 = 0
x
RMSE = 4.958
R^2 = 0.001
assignment = random, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 7.53
R^2 = 0.002
t
RMSE = 5.064
R^2 = 0.054
x
RMSE = 5.321
R^2 = 0.02
assignment = correlated_region, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 7.563
R^2 = 0.011
t
RMSE = 5.795
R^2 = 0.081
x
RMSE = 5.922
R^2 = 0.046
assignment = correlated_altitude, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 8.722
R^2 = 0.044
t
RMSE = 6.85
R^2 = 0.026
x
RMSE = 5.919
R^2 = 0.062
cate_pred
cate_real
error
0
10
20
30
40
50
−40
−20
0
20
40


assignment = random, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 8.604
R^2 = 0.05
t
RMSE = 5.742
R^2 = 0.076
x
RMSE = 5.208
R^2 = 0.016
assignment = correlated_region, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 7.886
R^2 = 0.001
t
RMSE = 4.648
R^2 = 0.119
x
RMSE = 4.891
R^2 = 0.031
assignment = correlated_altitude, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = edge
s
RMSE = 8.835
R^2 = 0.028
t
RMSE = 6.508
R^2 = 0.145
x
RMSE = 5.654
R^2 = 0.062
assignment = random, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = edge
s
RMSE = 6.933
R^2 = 0.006
t
RMSE = 5.709
R^2 = 0.018
x
RMSE = 4.331
R^2 = 0.058
assignment = correlated_region, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = edge
s
RMSE = 7.667
R^2 = 0.013
t
RMSE = 6.869
R^2 = 0.035
x
RMSE = 4.619
R^2 = 0.071
assignment = correlated_altitude, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = edge
s
RMSE = 7.435
R^2 = 0.033
t
RMSE = 6.053
R^2 = 0.053
x
RMSE = 4.581
R^2 = 0.034
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50

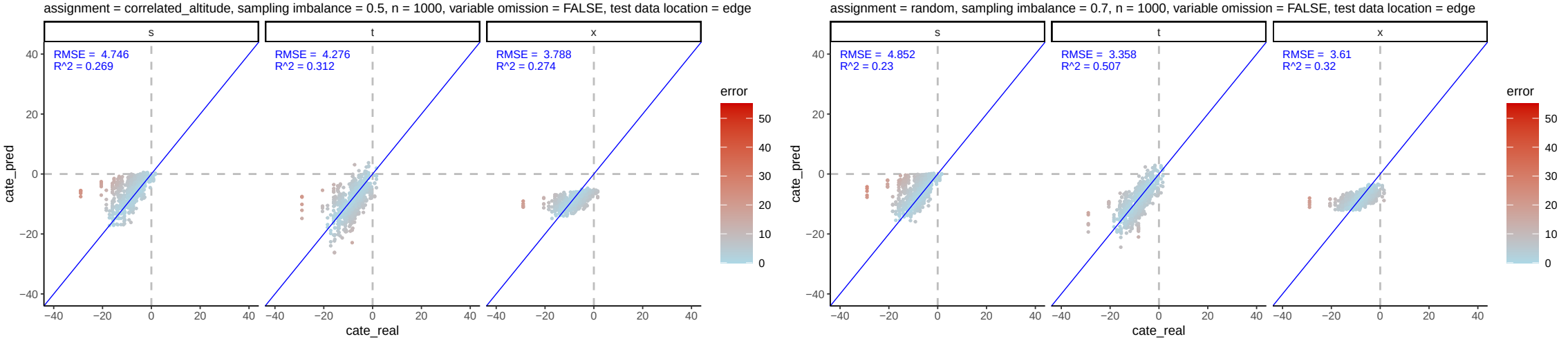

assignment = random, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 6.626
R^2 = 0.01
RMSE = 5.845
R^2 = 0.072
RMSE = 4.694
R^2 = 0.017
assignment = correlated_region, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = edge
RMSE = 6.321
R^2 = 0.001
RMSE = 5.443
R^2 = 0.116
RMSE = 5.638
R^2 = 0.066
assignment = correlated_altitude, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = edge
RMSE = 7.789
R^2 = 0.12
RMSE = 5.169
R^2 = 0.104
RMSE = 5.299
R^2 = 0.024
assignment = random, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = edge
RMSE = 7.617
R^2 = 0.048
RMSE = 5.415
R^2 = 0.106
RMSE = 4.675
R^2 = 0.002
assignment = correlated_region, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = edge
RMSE = 6.238
R^2 = 0.01
RMSE = 5.048
R^2 = 0.213
RMSE = 5.244
R^2 = 0.008
assignment = correlated_altitude, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = edge
RMSE = 7.656
R^2 = 0.054
RMSE = 5.376
R^2 = 0.229
RMSE = 4.779
R^2 = 0
cate_pred
cate_real
error


assignment = random, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 5.996
R^2 = 0.01
t
RMSE = 5.041
R^2 = 0.025
x
RMSE = 4.022
R^2 = 0.16
assignment = correlated_region, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 6.239
R^2 = 0.004
t
RMSE = 6.277
R^2 = 0.021
x
RMSE = 4.176
R^2 = 0.191
assignment = correlated_altitude, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 5.181
R^2 = 0.078
t
RMSE = 4.554
R^2 = 0.168
x
RMSE = 3.862
R^2 = 0.199
assignment = random, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 5.532
R^2 = 0.096
t
RMSE = 4.946
R^2 = 0.143
x
RMSE = 4.833
R^2 = 0
assignment = correlated_region, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 5.114
R^2 = 0.042
t
RMSE = 5.293
R^2 = 0.071
x
RMSE = 5.273
R^2 = 0.011
assignment = correlated_altitude, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 5.835
R^2 = 0.133
t
RMSE = 4.619
R^2 = 0.278
x
RMSE = 3.966
R^2 = 0.247
cate_pred
cate_real
error
40
20
0
−20
−40
50
30
10

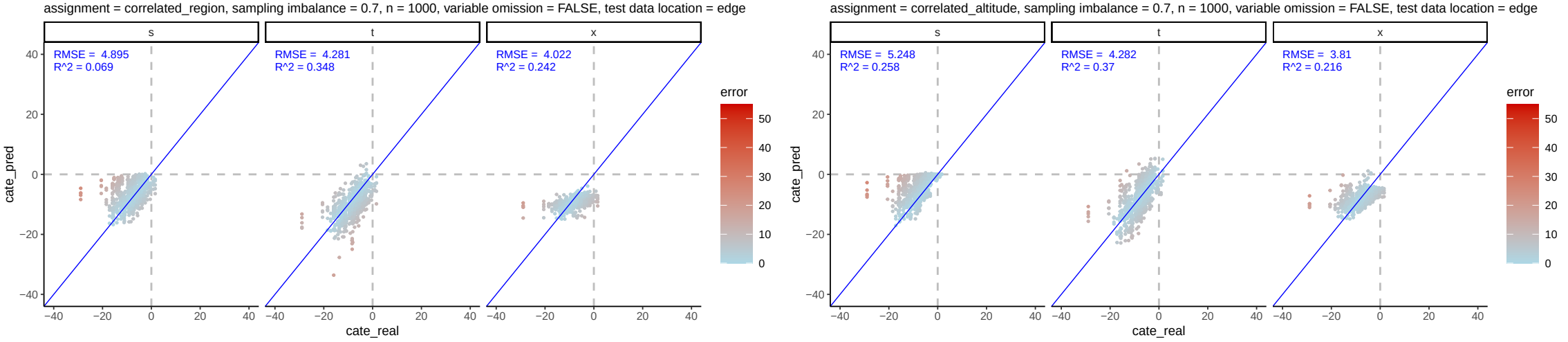

assignment = random, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 6.384
R^2 = 0.12
t
RMSE = 4.244
R^2 = 0.276
x
RMSE = 4.276
R^2 = 0.024
assignment = correlated_region, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 5.271
R^2 = 0.032
t
RMSE = 5.352
R^2 = 0.227
x
RMSE = 4.713
R^2 = 0.01
assignment = correlated_altitude, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = edge
s
RMSE = 6.825
R^2 = 0.163
t
RMSE = 4.367
R^2 = 0.364
x
RMSE = 4.09
R^2 = 0.108
assignment = random, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = edge
s
RMSE = 5.035
R^2 = 0.089
t
RMSE = 4.53
R^2 = 0.254
x
RMSE = 3.456
R^2 = 0.393
assignment = correlated_region, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = edge
s
RMSE = 5.105
R^2 = 0.022
t
RMSE = 5.463
R^2 = 0.089
x
RMSE = 3.446
R^2 = 0.384
assignment = correlated_altitude, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = edge
s
RMSE = 4.671
R^2 = 0.168
t
RMSE = 4.116
R^2 = 0.338
x
RMSE = 3.262
R^2 = 0.435
cate_pred
cate_real
error
40
20
0
−20
−40
50
30
10


assignment = random, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 4.542
R^2 = 0.17
RMSE = 4.425
R^2 = 0.31
RMSE = 3.765
R^2 = 0.26
cate_pred
cate_real
error

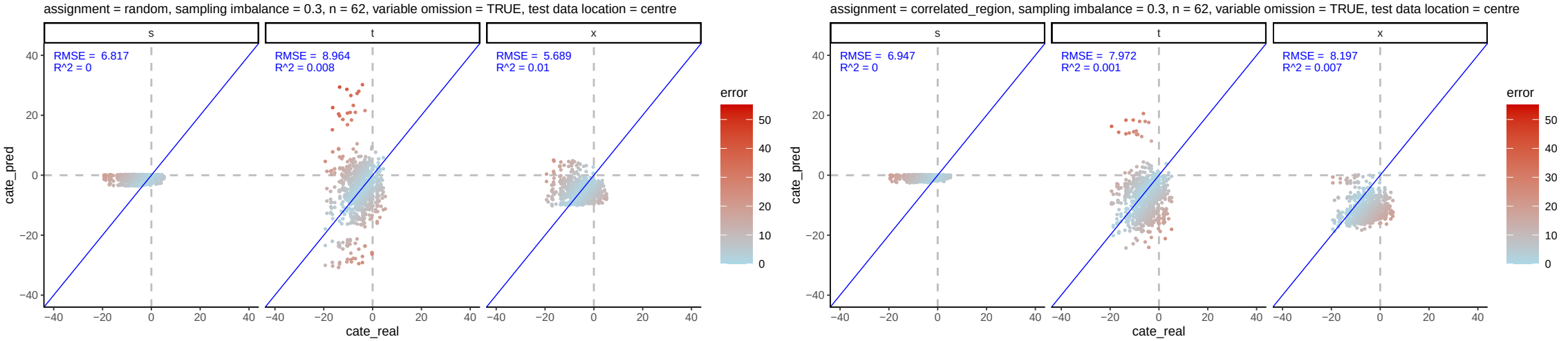
assignment = correlated_region, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 4.94
R^2 = 0.025
RMSE = 4.603
R^2 = 0.271
RMSE = 4.651
R^2 = 0.112
cate_pred
cate_real
error

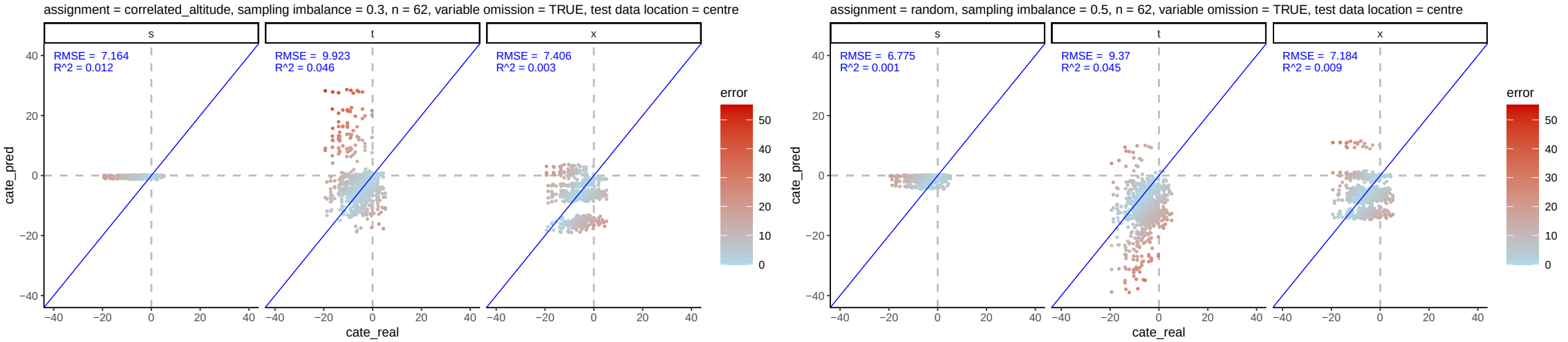

assignment = correlated_altitude, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 4.746
R^2 = 0.269
RMSE = 4.276
R^2 = 0.312
RMSE = 3.788
R^2 = 0.274
cate_pred
cate_real
error

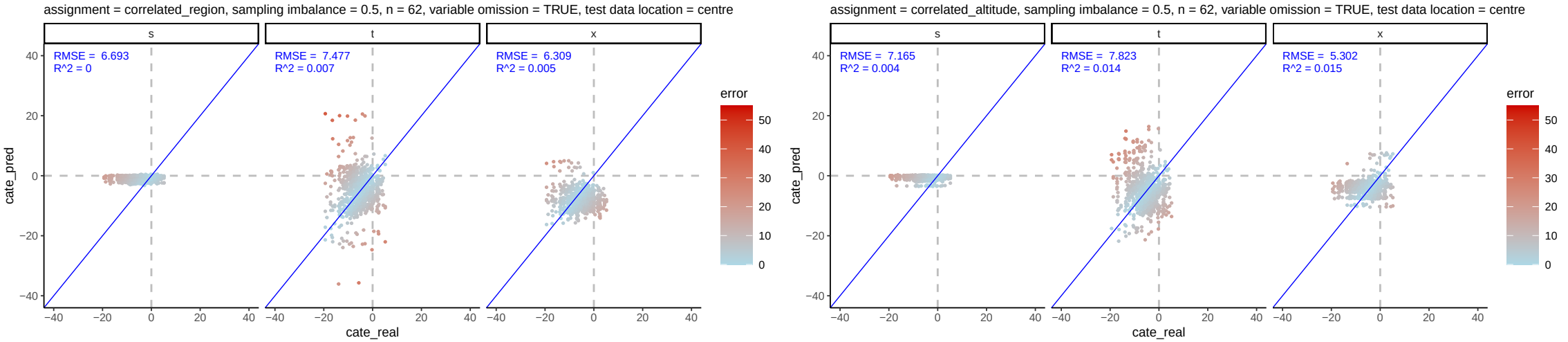
assignment = random, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 4.852
R^2 = 0.23
RMSE = 3.358
R^2 = 0.507
RMSE = 3.61
R^2 = 0.32
cate_pred
cate_real
error

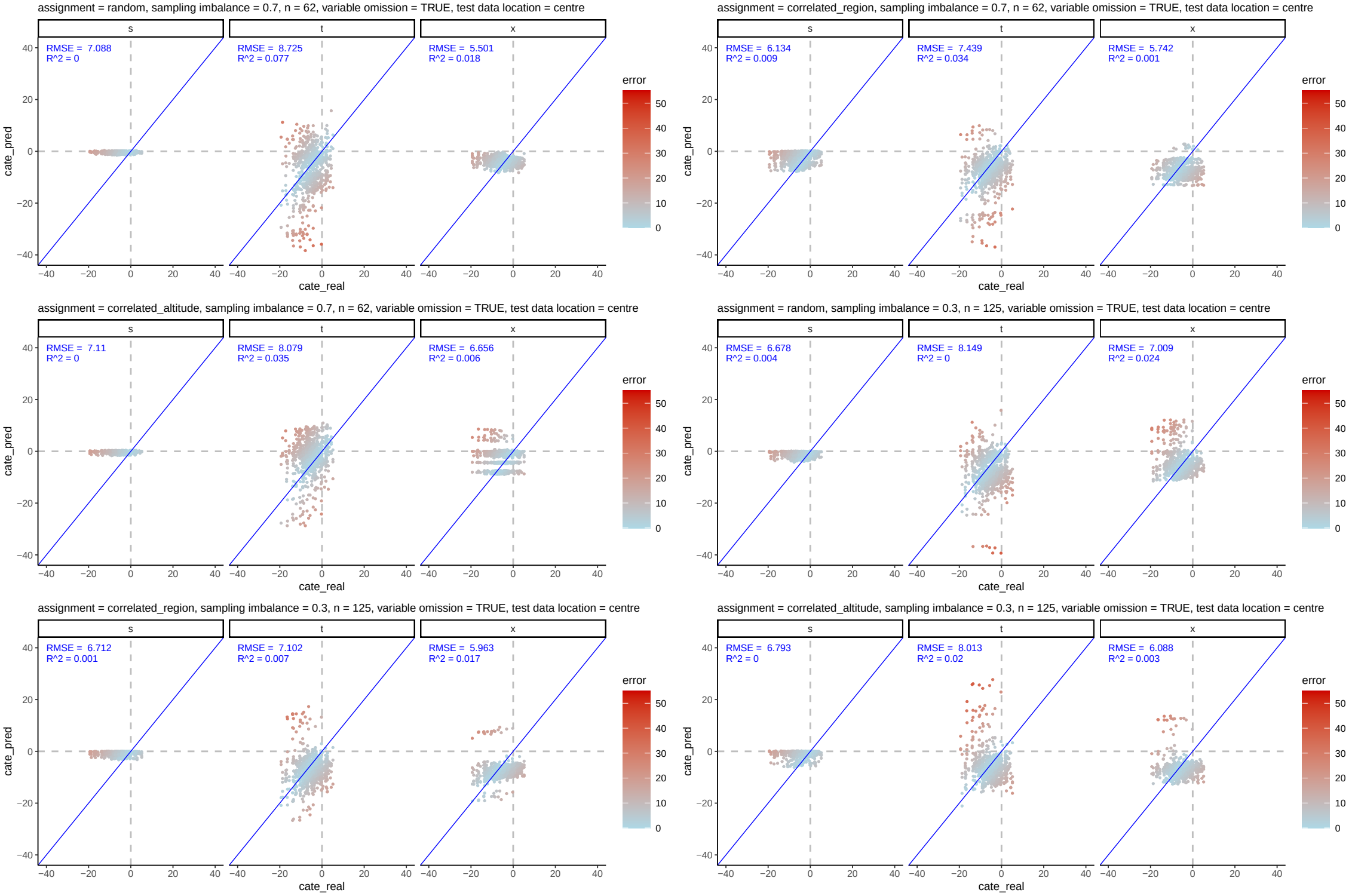

assignment = correlated_region, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 4.895
R^2 = 0.069
RMSE = 4.281
R^2 = 0.348
RMSE = 4.022
R^2 = 0.242
cate_pred
cate_real
error

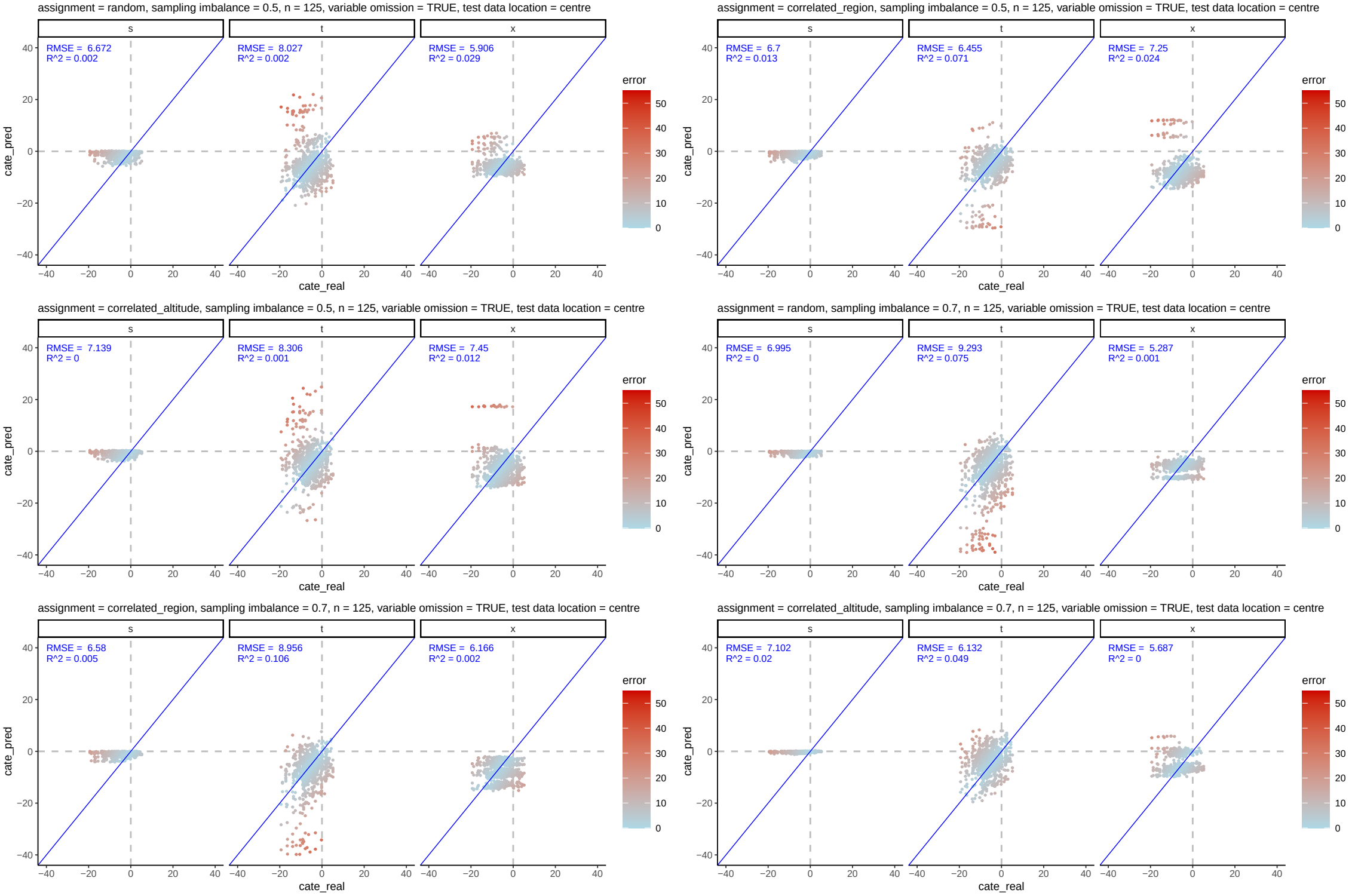
assignment = correlated_altitude, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = edge
s
t
x
RMSE = 5.248
R^2 = 0.258
RMSE = 4.282
R^2 = 0.37
RMSE = 3.81
R^2 = 0.216
cate_pred
cate_real
error

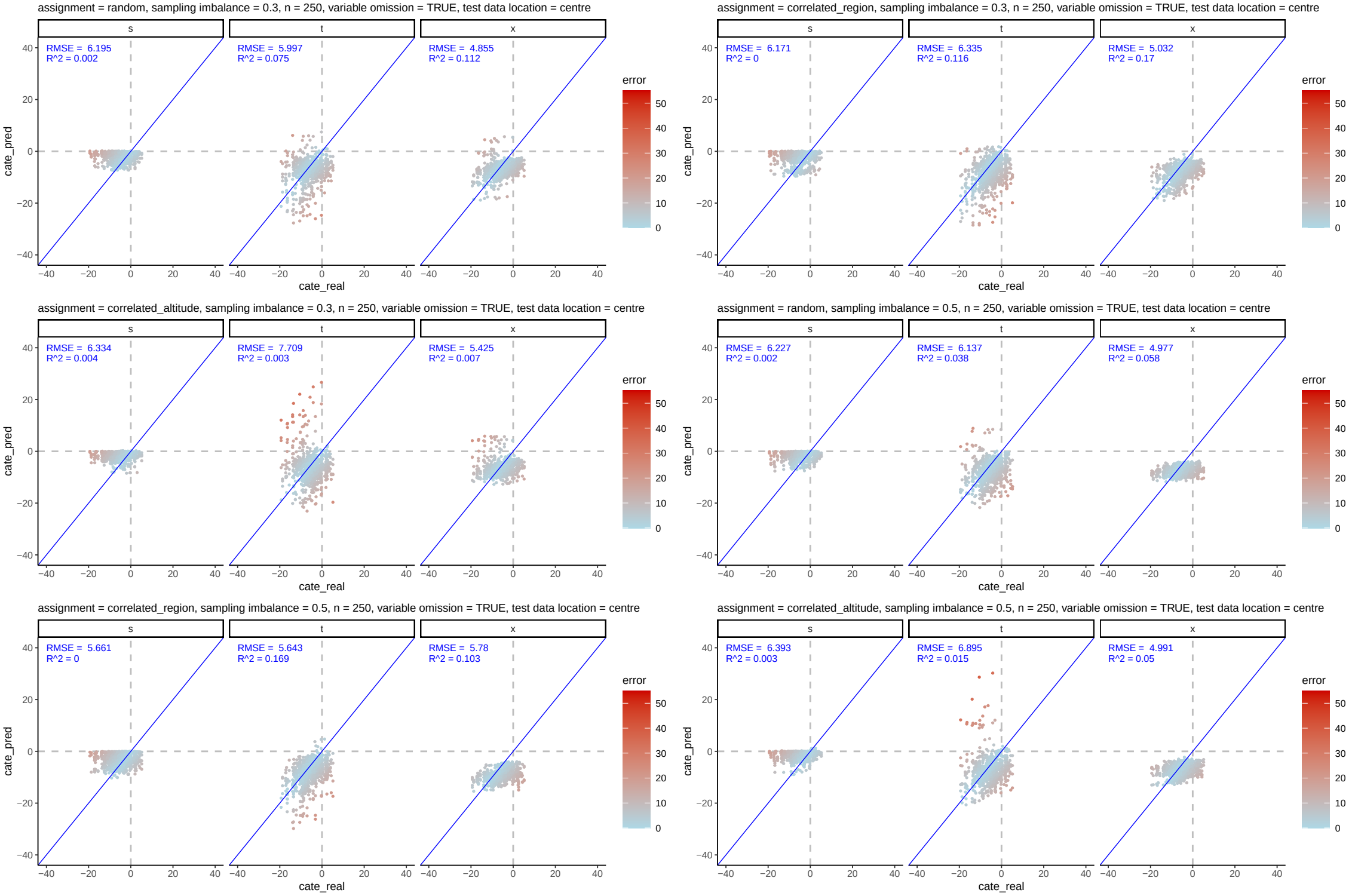

assignment = random, sampling imbalance = 0.3, n = 62, variable omission = TRUE, test data location = centre
s
t
x
RMSE = 6.817
R^2 = 0
RMSE = 8.964
R^2 = 0.008
RMSE = 5.689
R^2 = 0.01
cate_pred
cate_real
error
assignment = correlated_region, sampling imbalance = 0.3, n = 62, variable omission = TRUE, test data location = centre
RMSE = 6.947
R^2 = 0
RMSE = 7.972
R^2 = 0.001
RMSE = 8.197
R^2 = 0.007

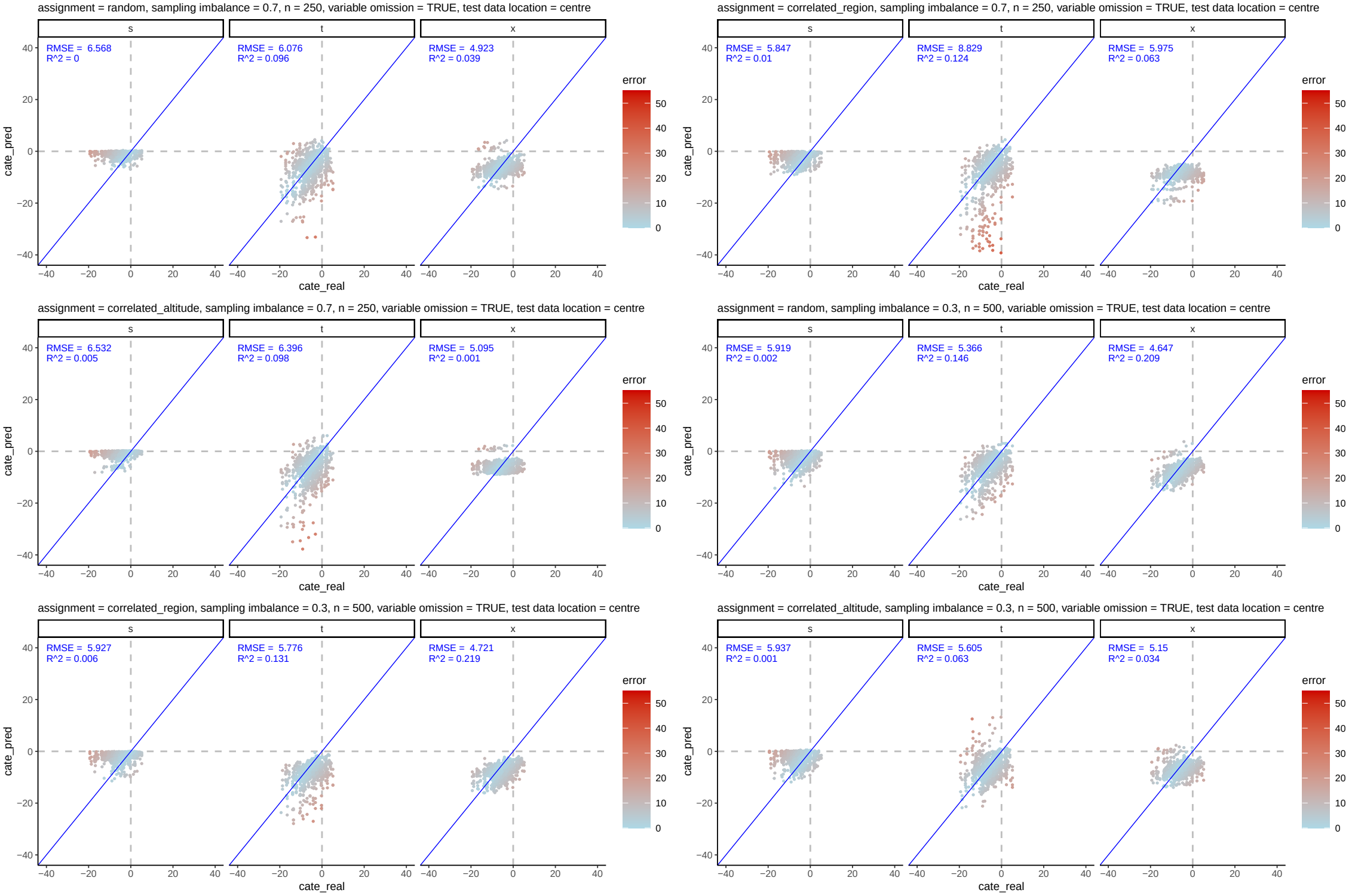

assignment = correlated_altitude, sampling imbalance = 0.3, n = 62, variable omission = TRUE, test data location = centre
s
t
x
RMSE = 7.164
R^2 = 0.012
RMSE = 9.923
R^2 = 0.046
RMSE = 7.406
R^2 = 0.003
cate_pred
cate_real
error
assignment = random, sampling imbalance = 0.5, n = 62, variable omission = TRUE, test data location = centre
RMSE = 6.775
R^2 = 0.001
RMSE = 9.37
R^2 = 0.045
RMSE = 7.184
R^2 = 0.009

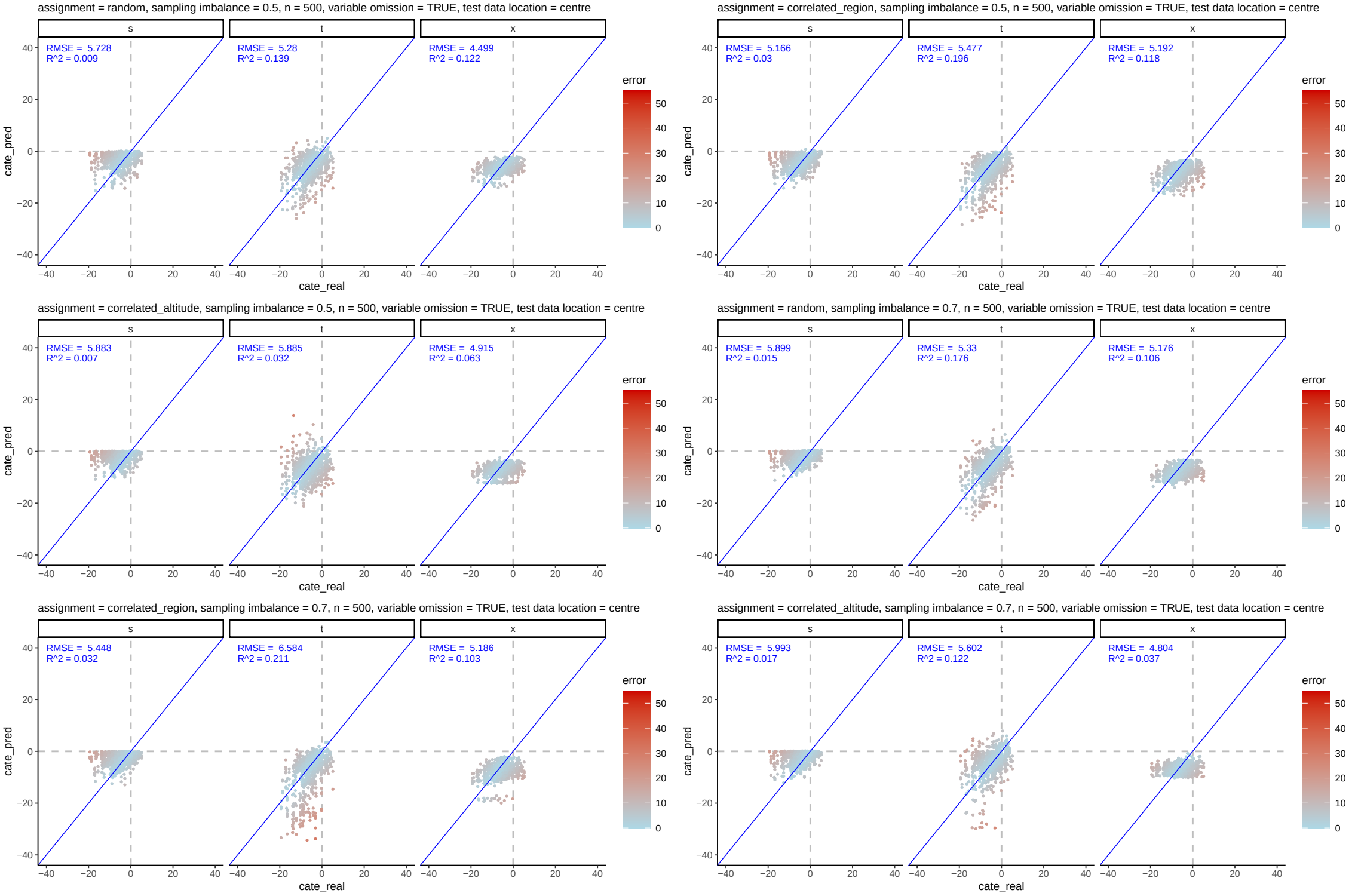

assignment = correlated_region, sampling imbalance = 0.5, n = 62, variable omission = TRUE, test data location = centre
s
t
x
RMSE = 6.693
R^2 = 0
RMSE = 7.477
R^2 = 0.007
RMSE = 6.309
R^2 = 0.005
cate_pred
cate_real
error
assignment = correlated_altitude, sampling imbalance = 0.5, n = 62, variable omission = TRUE, test data location = centre
RMSE = 7.165
R^2 = 0.004
RMSE = 7.823
R^2 = 0.014
RMSE = 5.302
R^2 = 0.015

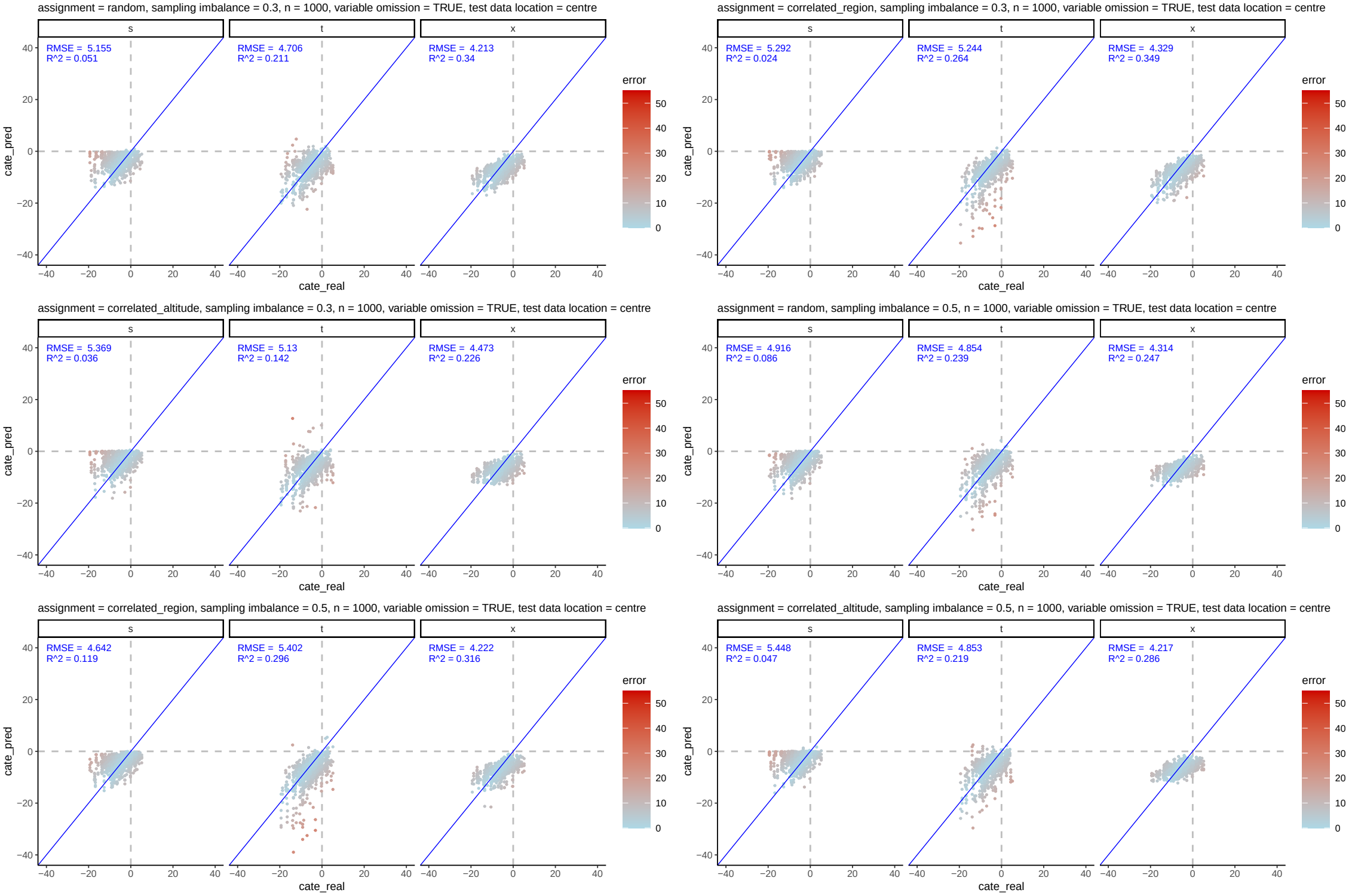

assignment = random, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = centre
s
RMSE = 7.088
R^2 = 0
t
RMSE = 8.725
R^2 = 0.077
x
RMSE = 5.501
R^2 = 0.018
assignment = correlated_region, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = centre
s
RMSE = 6.134
R^2 = 0.009
t
RMSE = 7.439
R^2 = 0.034
x
RMSE = 5.742
R^2 = 0.001
assignment = correlated_altitude, sampling imbalance = 0.7, n = 62, variable omission = TRUE, test data location = centre
s
RMSE = 7.11
R^2 = 0
t
RMSE = 8.079
R^2 = 0.035
x
RMSE = 6.656
R^2 = 0.006
assignment = random, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.678
R^2 = 0.004
t
RMSE = 8.149
R^2 = 0
x
RMSE = 7.009
R^2 = 0.024
assignment = correlated_region, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.712
R^2 = 0.001
t
RMSE = 7.102
R^2 = 0.007
x
RMSE = 5.963
R^2 = 0.017
assignment = correlated_altitude, sampling imbalance = 0.3, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.793
R^2 = 0
t
RMSE = 8.013
R^2 = 0.02
x
RMSE = 6.088
R^2 = 0.003
cate_pred
cate_real
error
−40
−20
0
20
40
50
30
10

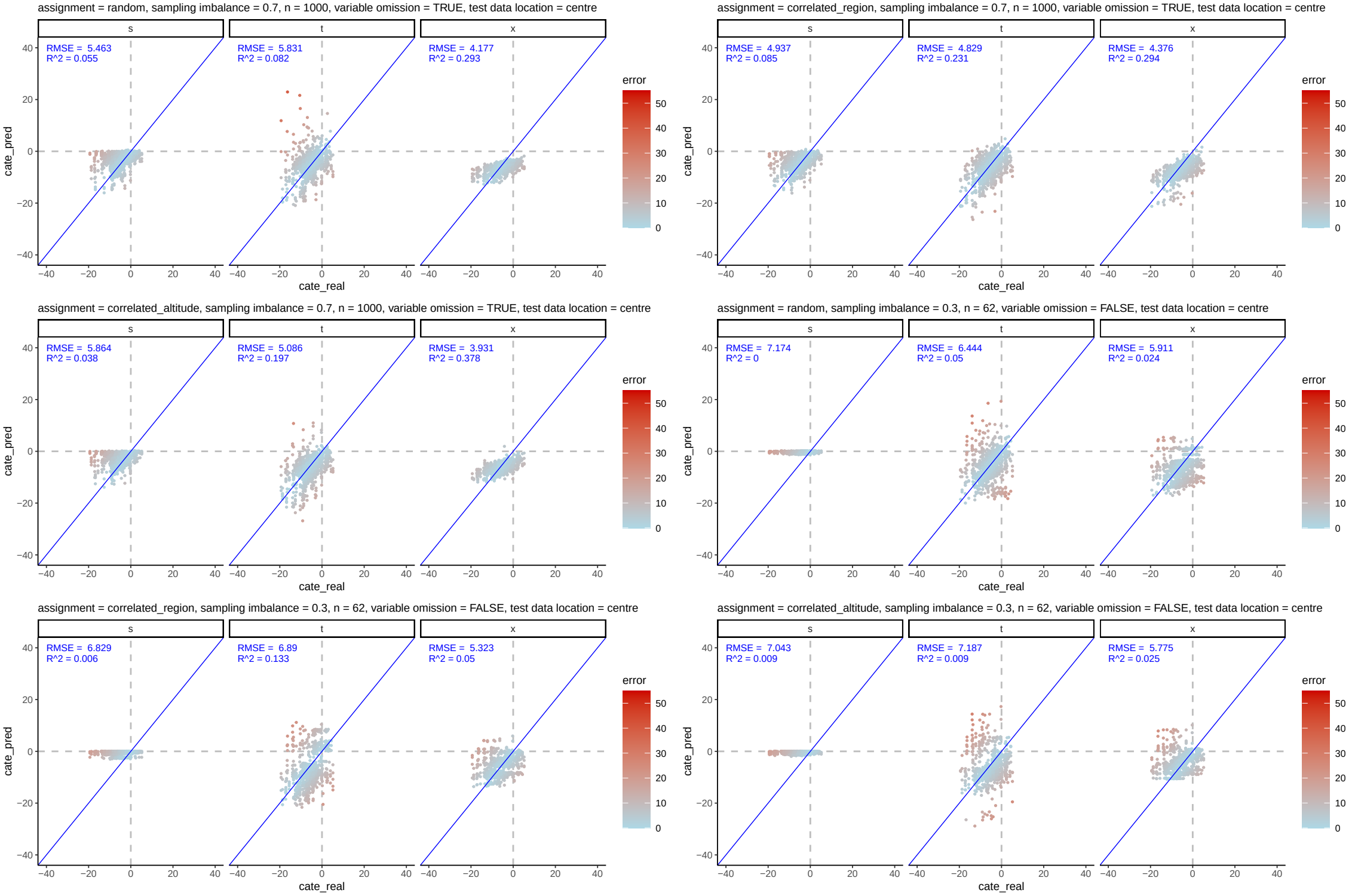

assignment = random, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.672
R^2 = 0.002
t
RMSE = 8.027
R^2 = 0.002
x
RMSE = 5.906
R^2 = 0.029
assignment = correlated_region, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.7
R^2 = 0.013
t
RMSE = 6.455
R^2 = 0.071
x
RMSE = 7.25
R^2 = 0.024
assignment = correlated_altitude, sampling imbalance = 0.5, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 7.139
R^2 = 0
t
RMSE = 8.306
R^2 = 0.001
x
RMSE = 7.45
R^2 = 0.012
assignment = random, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.995
R^2 = 0
t
RMSE = 9.293
R^2 = 0.075
x
RMSE = 5.287
R^2 = 0.001
assignment = correlated_region, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 6.58
R^2 = 0.005
t
RMSE = 8.956
R^2 = 0.106
x
RMSE = 6.166
R^2 = 0.002
assignment = correlated_altitude, sampling imbalance = 0.7, n = 125, variable omission = TRUE, test data location = centre
s
RMSE = 7.102
R^2 = 0.02
t
RMSE = 6.132
R^2 = 0.049
x
RMSE = 5.687
R^2 = 0
cate_pred
cate_real
error
−40
−20
0
20
40
50
30
10

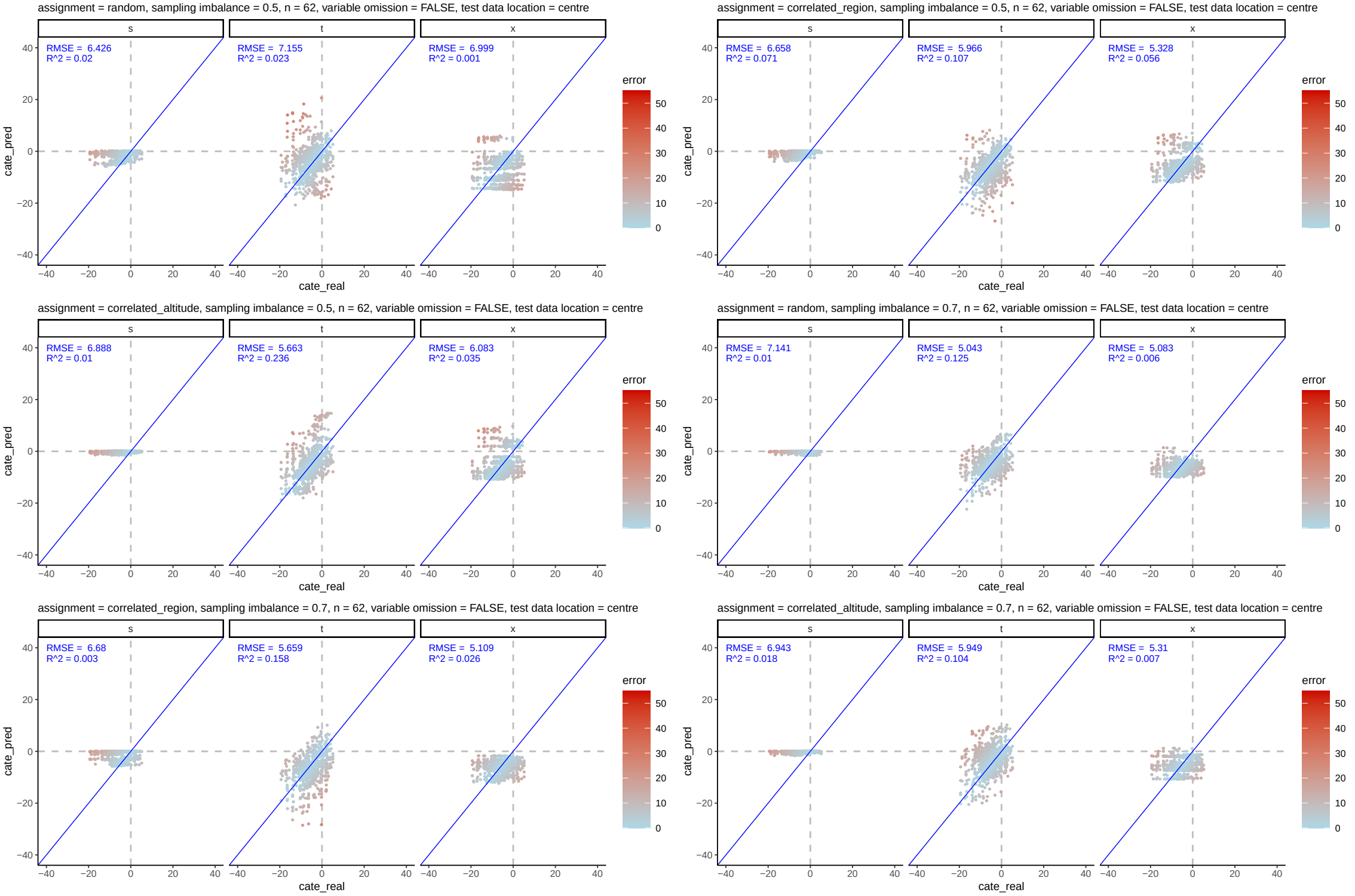

assignment = random, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = centre
s
t
x
RMSE = 6.195
R^2 = 0.002
RMSE = 5.997
R^2 = 0.075
RMSE = 4.855
R^2 = 0.112
assignment = correlated_region, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = centre
RMSE = 6.171
R^2 = 0
RMSE = 6.335
R^2 = 0.116
RMSE = 5.032
R^2 = 0.17
assignment = correlated_altitude, sampling imbalance = 0.3, n = 250, variable omission = TRUE, test data location = centre
RMSE = 6.334
R^2 = 0.004
RMSE = 7.709
R^2 = 0.003
RMSE = 5.425
R^2 = 0.007
assignment = random, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = centre
RMSE = 6.227
R^2 = 0.002
RMSE = 6.137
R^2 = 0.038
RMSE = 4.977
R^2 = 0.058
assignment = correlated_region, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = centre
RMSE = 5.661
R^2 = 0
RMSE = 5.643
R^2 = 0.169
RMSE = 5.78
R^2 = 0.103
assignment = correlated_altitude, sampling imbalance = 0.5, n = 250, variable omission = TRUE, test data location = centre
RMSE = 6.393
R^2 = 0.003
RMSE = 6.895
R^2 = 0.015
RMSE = 4.991
R^2 = 0.05
cate_pred
cate_real
error

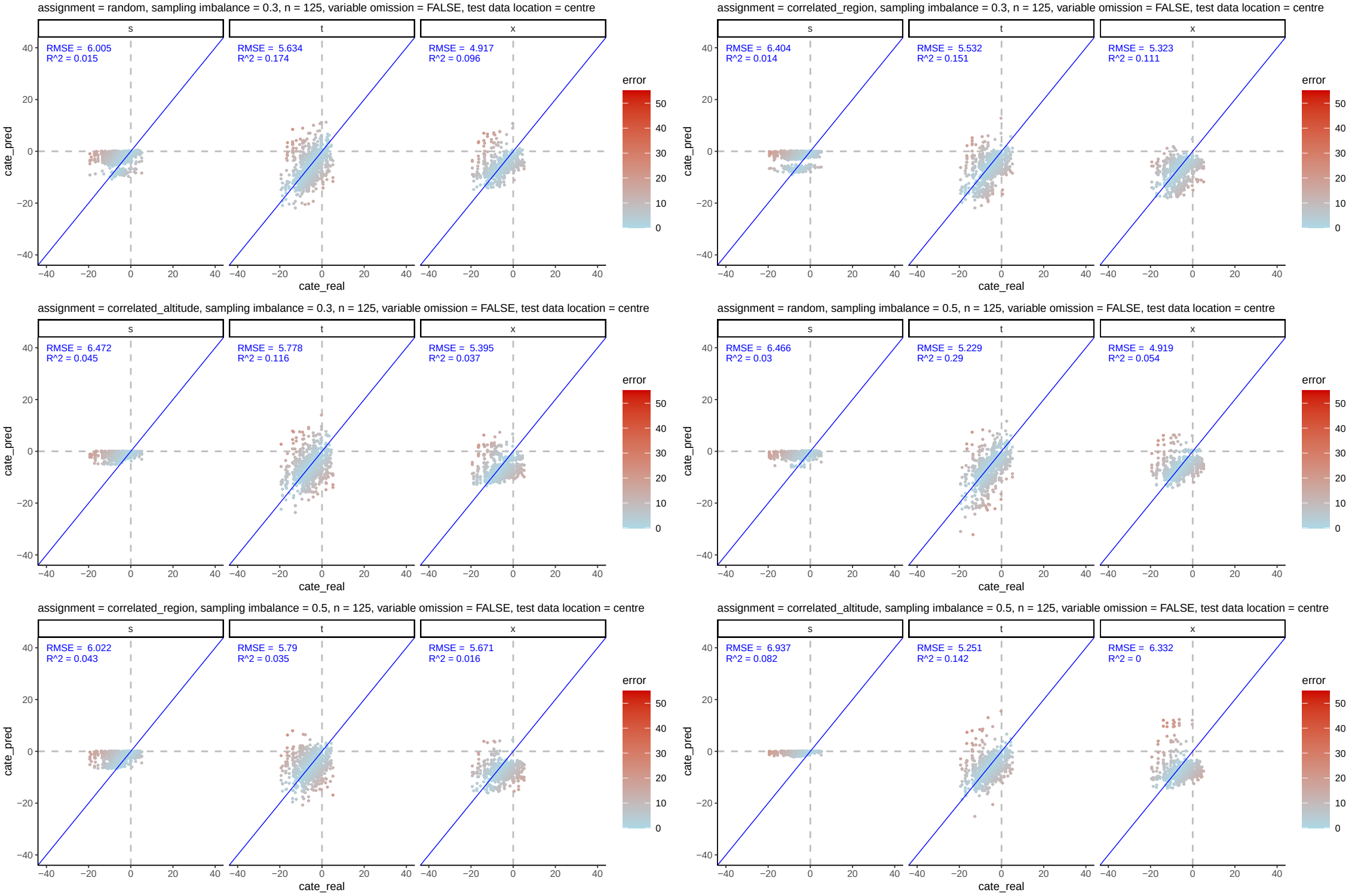

assignment = random, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = centre
s
RMSE = 6.568
R^2 = 0
t
RMSE = 6.076
R^2 = 0.096
x
RMSE = 4.923
R^2 = 0.039
assignment = correlated_region, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = centre
s
RMSE = 5.847
R^2 = 0.01
t
RMSE = 8.829
R^2 = 0.124
x
RMSE = 5.975
R^2 = 0.063
assignment = correlated_altitude, sampling imbalance = 0.7, n = 250, variable omission = TRUE, test data location = centre
s
RMSE = 6.532
R^2 = 0.005
t
RMSE = 6.396
R^2 = 0.098
x
RMSE = 5.095
R^2 = 0.001
assignment = random, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.919
R^2 = 0.002
t
RMSE = 5.366
R^2 = 0.146
x
RMSE = 4.647
R^2 = 0.209
assignment = correlated_region, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.927
R^2 = 0.006
t
RMSE = 5.776
R^2 = 0.131
x
RMSE = 4.721
R^2 = 0.219
assignment = correlated_altitude, sampling imbalance = 0.3, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.937
R^2 = 0.001
t
RMSE = 5.605
R^2 = 0.063
x
RMSE = 5.15
R^2 = 0.034
cate_pred
cate_real
error
40
20
0
−20
−40
50
30
10

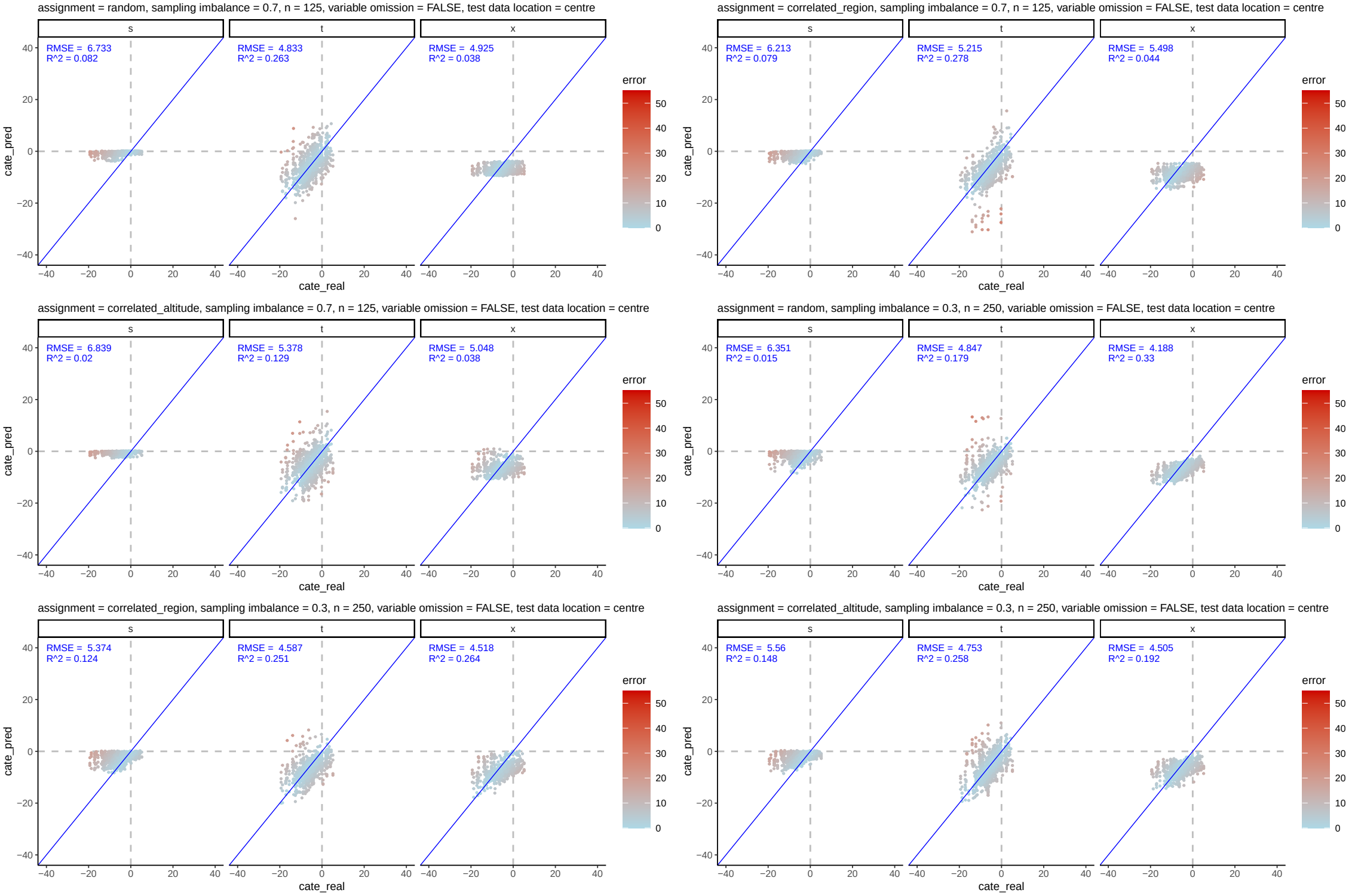

assignment = random, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.728
R^2 = 0.009
t
RMSE = 5.28
R^2 = 0.139
x
RMSE = 4.499
R^2 = 0.122
assignment = correlated_region, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.166
R^2 = 0.03
t
RMSE = 5.477
R^2 = 0.196
x
RMSE = 5.192
R^2 = 0.118
assignment = correlated_altitude, sampling imbalance = 0.5, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.883
R^2 = 0.007
t
RMSE = 5.885
R^2 = 0.032
x
RMSE = 4.915
R^2 = 0.063
assignment = random, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.899
R^2 = 0.015
t
RMSE = 5.33
R^2 = 0.176
x
RMSE = 5.176
R^2 = 0.106
assignment = correlated_region, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.448
R^2 = 0.032
t
RMSE = 6.584
R^2 = 0.211
x
RMSE = 5.186
R^2 = 0.103
assignment = correlated_altitude, sampling imbalance = 0.7, n = 500, variable omission = TRUE, test data location = centre
s
RMSE = 5.993
R^2 = 0.017
t
RMSE = 5.602
R^2 = 0.122
x
RMSE = 4.804
R^2 = 0.037
cate_pred
cate_real
error
40
20
0
−20
−40
50
40
30
20
10
0

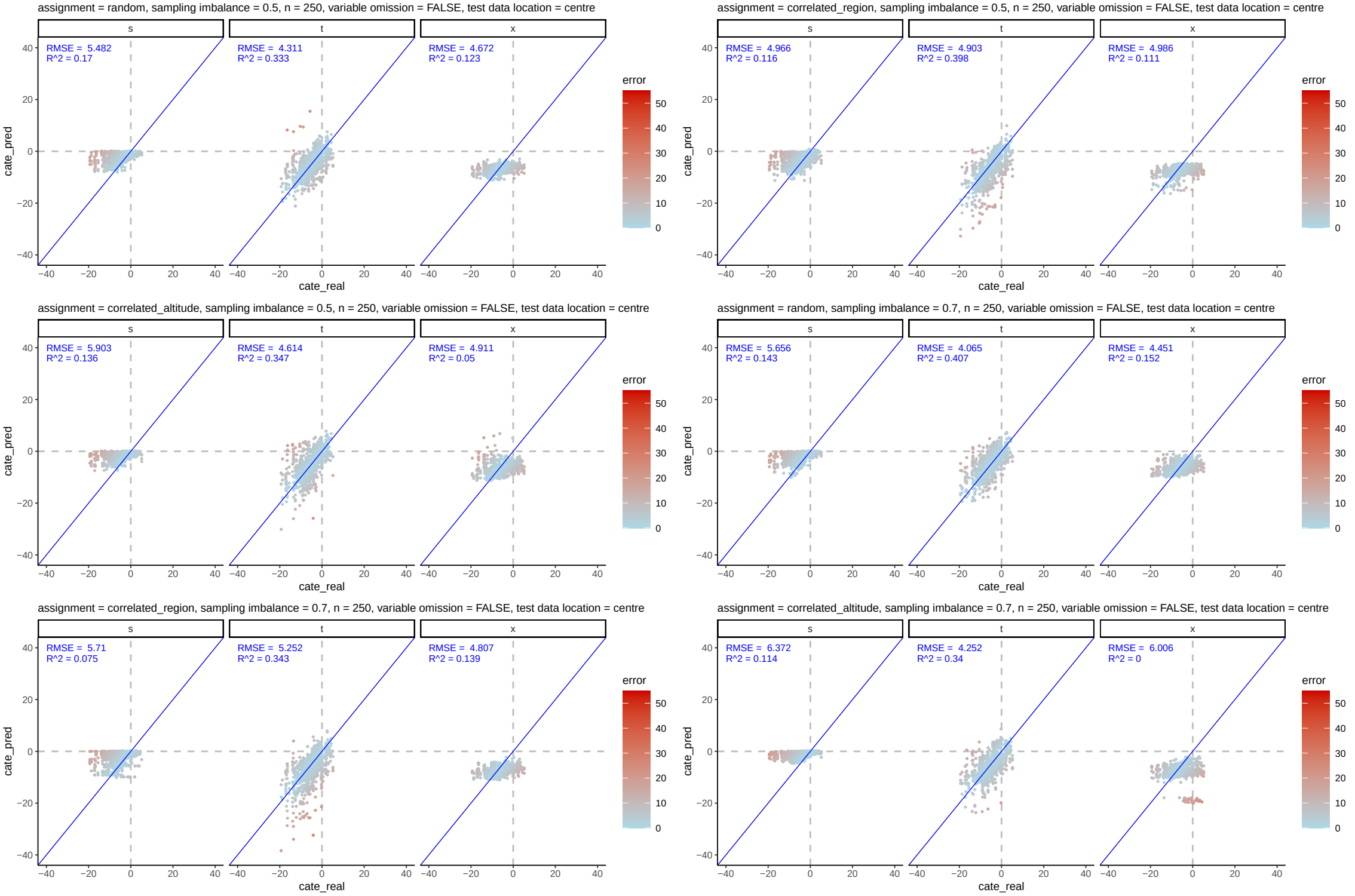

assignment = random, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = centre
s
t
x
RMSE = 5.155
R^2 = 0.051
RMSE = 4.706
R^2 = 0.211
RMSE = 4.213
R^2 = 0.34
assignment = correlated_region, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = centre
RMSE = 5.292
R^2 = 0.024
RMSE = 5.244
R^2 = 0.264
RMSE = 4.329
R^2 = 0.349
assignment = correlated_altitude, sampling imbalance = 0.3, n = 1000, variable omission = TRUE, test data location = centre
RMSE = 5.369
R^2 = 0.036
RMSE = 5.13
R^2 = 0.142
RMSE = 4.473
R^2 = 0.226
assignment = random, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = centre
RMSE = 4.916
R^2 = 0.086
RMSE = 4.854
R^2 = 0.239
RMSE = 4.314
R^2 = 0.247
assignment = correlated_region, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = centre
RMSE = 4.642
R^2 = 0.119
RMSE = 5.402
R^2 = 0.296
RMSE = 4.222
R^2 = 0.316
assignment = correlated_altitude, sampling imbalance = 0.5, n = 1000, variable omission = TRUE, test data location = centre
RMSE = 5.448
R^2 = 0.047
RMSE = 4.853
R^2 = 0.219
RMSE = 4.217
R^2 = 0.286
cate_pred
cate_real
error
40
20
0
−20
−40


assignment = random, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = centre
s
RMSE = 5.463
R^2 = 0.055
t
RMSE = 5.831
R^2 = 0.082
x
RMSE = 4.177
R^2 = 0.293
assignment = correlated_region, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = centre
s
RMSE = 4.937
R^2 = 0.085
t
RMSE = 4.829
R^2 = 0.231
x
RMSE = 4.376
R^2 = 0.294
assignment = correlated_altitude, sampling imbalance = 0.7, n = 1000, variable omission = TRUE, test data location = centre
s
RMSE = 5.864
R^2 = 0.038
t
RMSE = 5.086
R^2 = 0.197
x
RMSE = 3.931
R^2 = 0.378
assignment = random, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = centre
s
RMSE = 7.174
R^2 = 0
t
RMSE = 6.444
R^2 = 0.05
x
RMSE = 5.911
R^2 = 0.024
assignment = correlated_region, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = centre
s
RMSE = 6.829
R^2 = 0.006
t
RMSE = 6.89
R^2 = 0.133
x
RMSE = 5.323
R^2 = 0.05
assignment = correlated_altitude, sampling imbalance = 0.3, n = 62, variable omission = FALSE, test data location = centre
s
RMSE = 7.043
R^2 = 0.009
t
RMSE = 7.187
R^2 = 0.009
x
RMSE = 5.775
R^2 = 0.025
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50

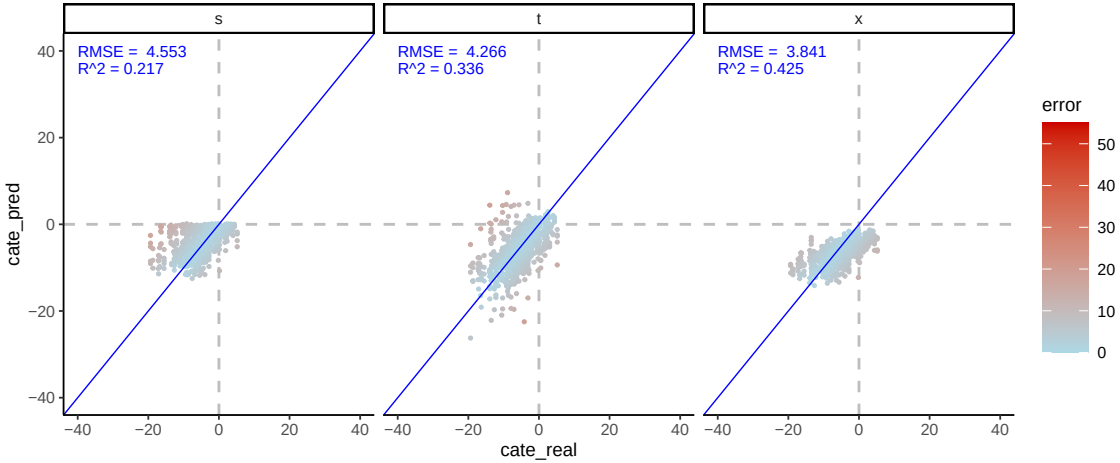

assignment = random, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = centre
s
t
x
RMSE = 6.426
R^2 = 0.02
RMSE = 7.155
R^2 = 0.023
RMSE = 6.999
R^2 = 0.001
assignment = correlated_region, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = centre
RMSE = 6.658
R^2 = 0.071
RMSE = 5.966
R^2 = 0.107
RMSE = 5.328
R^2 = 0.056
assignment = correlated_altitude, sampling imbalance = 0.5, n = 62, variable omission = FALSE, test data location = centre
RMSE = 6.888
R^2 = 0.01
RMSE = 5.663
R^2 = 0.236
RMSE = 6.083
R^2 = 0.035
assignment = random, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = centre
RMSE = 7.141
R^2 = 0.01
RMSE = 5.043
R^2 = 0.125
RMSE = 5.083
R^2 = 0.006
assignment = correlated_region, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = centre
RMSE = 6.68
R^2 = 0.003
RMSE = 5.659
R^2 = 0.158
RMSE = 5.109
R^2 = 0.026
assignment = correlated_altitude, sampling imbalance = 0.7, n = 62, variable omission = FALSE, test data location = centre
RMSE = 6.943
R^2 = 0.018
RMSE = 5.949
R^2 = 0.104
RMSE = 5.31
R^2 = 0.007
cate_pred
cate_real
error


assignment = random, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.005
R^2 = 0.015
t
RMSE = 5.634
R^2 = 0.174
x
RMSE = 4.917
R^2 = 0.096
assignment = correlated_region, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.404
R^2 = 0.014
t
RMSE = 5.532
R^2 = 0.151
x
RMSE = 5.323
R^2 = 0.111
assignment = correlated_altitude, sampling imbalance = 0.3, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.472
R^2 = 0.045
t
RMSE = 5.778
R^2 = 0.116
x
RMSE = 5.395
R^2 = 0.037
assignment = random, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.466
R^2 = 0.03
t
RMSE = 5.229
R^2 = 0.29
x
RMSE = 4.919
R^2 = 0.054
assignment = correlated_region, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.022
R^2 = 0.043
t
RMSE = 5.79
R^2 = 0.035
x
RMSE = 5.671
R^2 = 0.016
assignment = correlated_altitude, sampling imbalance = 0.5, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.937
R^2 = 0.082
t
RMSE = 5.251
R^2 = 0.142
x
RMSE = 6.332
R^2 = 0
cate_pred
cate_real
error
−40
−20
0
20
40
50
30
10

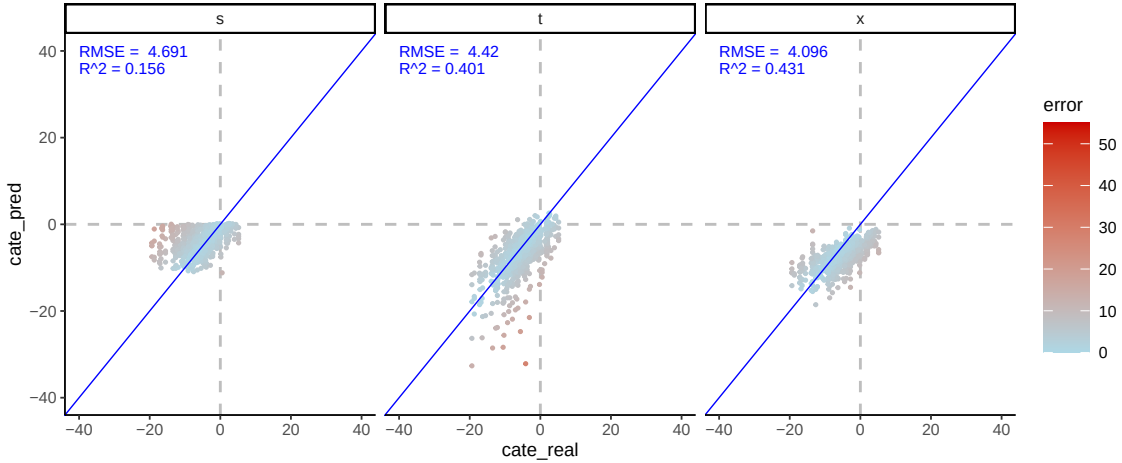

assignment = random, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.733
R^2 = 0.082
t
RMSE = 4.833
R^2 = 0.263
x
RMSE = 4.925
R^2 = 0.038
assignment = correlated_region, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.213
R^2 = 0.079
t
RMSE = 5.215
R^2 = 0.278
x
RMSE = 5.498
R^2 = 0.044
assignment = correlated_altitude, sampling imbalance = 0.7, n = 125, variable omission = FALSE, test data location = centre
s
RMSE = 6.839
R^2 = 0.02
t
RMSE = 5.378
R^2 = 0.129
x
RMSE = 5.048
R^2 = 0.038
assignment = random, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = centre
s
RMSE = 6.351
R^2 = 0.015
t
RMSE = 4.847
R^2 = 0.179
x
RMSE = 4.188
R^2 = 0.33
assignment = correlated_region, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = centre
s
RMSE = 5.374
R^2 = 0.124
t
RMSE = 4.587
R^2 = 0.251
x
RMSE = 4.518
R^2 = 0.264
assignment = correlated_altitude, sampling imbalance = 0.3, n = 250, variable omission = FALSE, test data location = centre
s
RMSE = 5.56
R^2 = 0.148
t
RMSE = 4.753
R^2 = 0.258
x
RMSE = 4.505
R^2 = 0.192
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50


assignment = random, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = centre
s
t
x
RMSE = 5.482
R^2 = 0.17
RMSE = 4.311
R^2 = 0.333
RMSE = 4.672
R^2 = 0.123
assignment = correlated_region, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = centre
RMSE = 4.966
R^2 = 0.116
RMSE = 4.903
R^2 = 0.398
RMSE = 4.986
R^2 = 0.111
assignment = correlated_altitude, sampling imbalance = 0.5, n = 250, variable omission = FALSE, test data location = centre
RMSE = 5.903
R^2 = 0.136
RMSE = 4.614
R^2 = 0.347
RMSE = 4.911
R^2 = 0.05
assignment = random, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = centre
RMSE = 5.656
R^2 = 0.143
RMSE = 4.065
R^2 = 0.407
RMSE = 4.451
R^2 = 0.152
assignment = correlated_region, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = centre
RMSE = 5.71
R^2 = 0.075
RMSE = 5.252
R^2 = 0.343
RMSE = 4.807
R^2 = 0.139
assignment = correlated_altitude, sampling imbalance = 0.7, n = 250, variable omission = FALSE, test data location = centre
RMSE = 6.372
R^2 = 0.114
RMSE = 4.252
R^2 = 0.34
RMSE = 6.006
R^2 = 0
cate_pred
cate_real
error
−40
−20
0
20
40
10
30
50

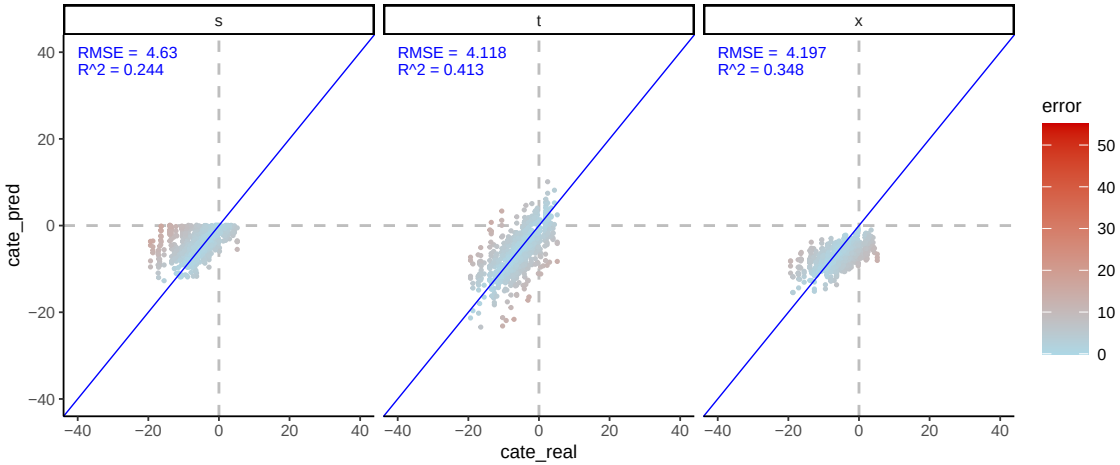
assignment = random, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = centre



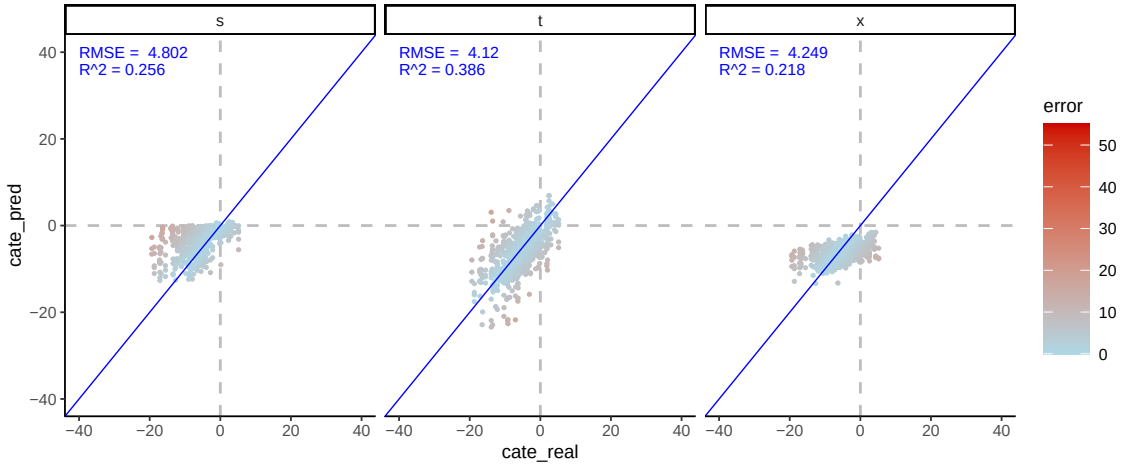
assignment = correlated_region, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = centre



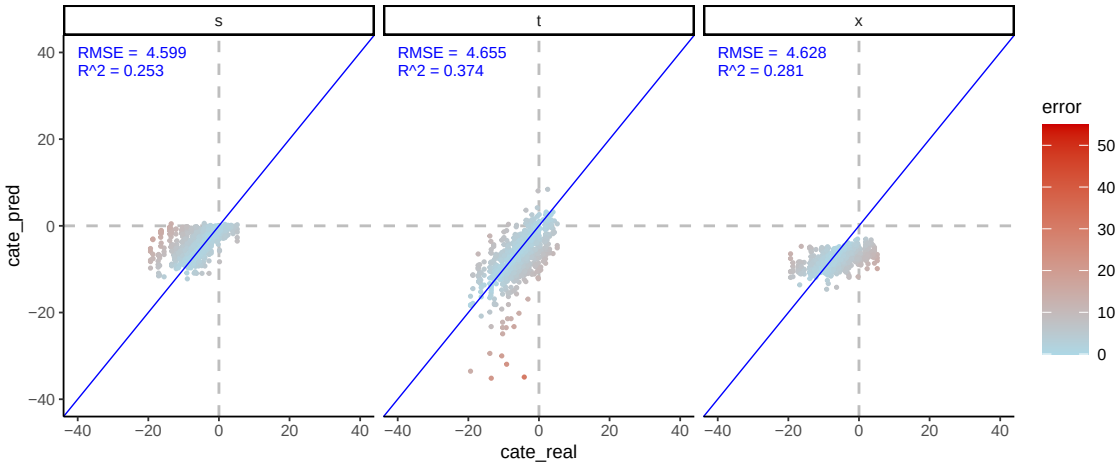
assignment = correlated_altitude, sampling imbalance = 0.3, n = 500, variable omission = FALSE, test data location = centre



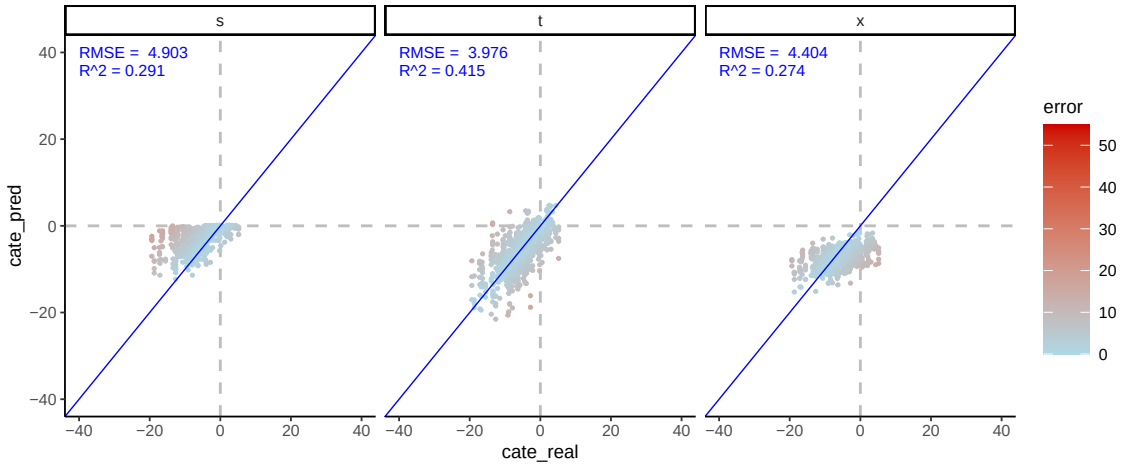
assignment = random, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = centre

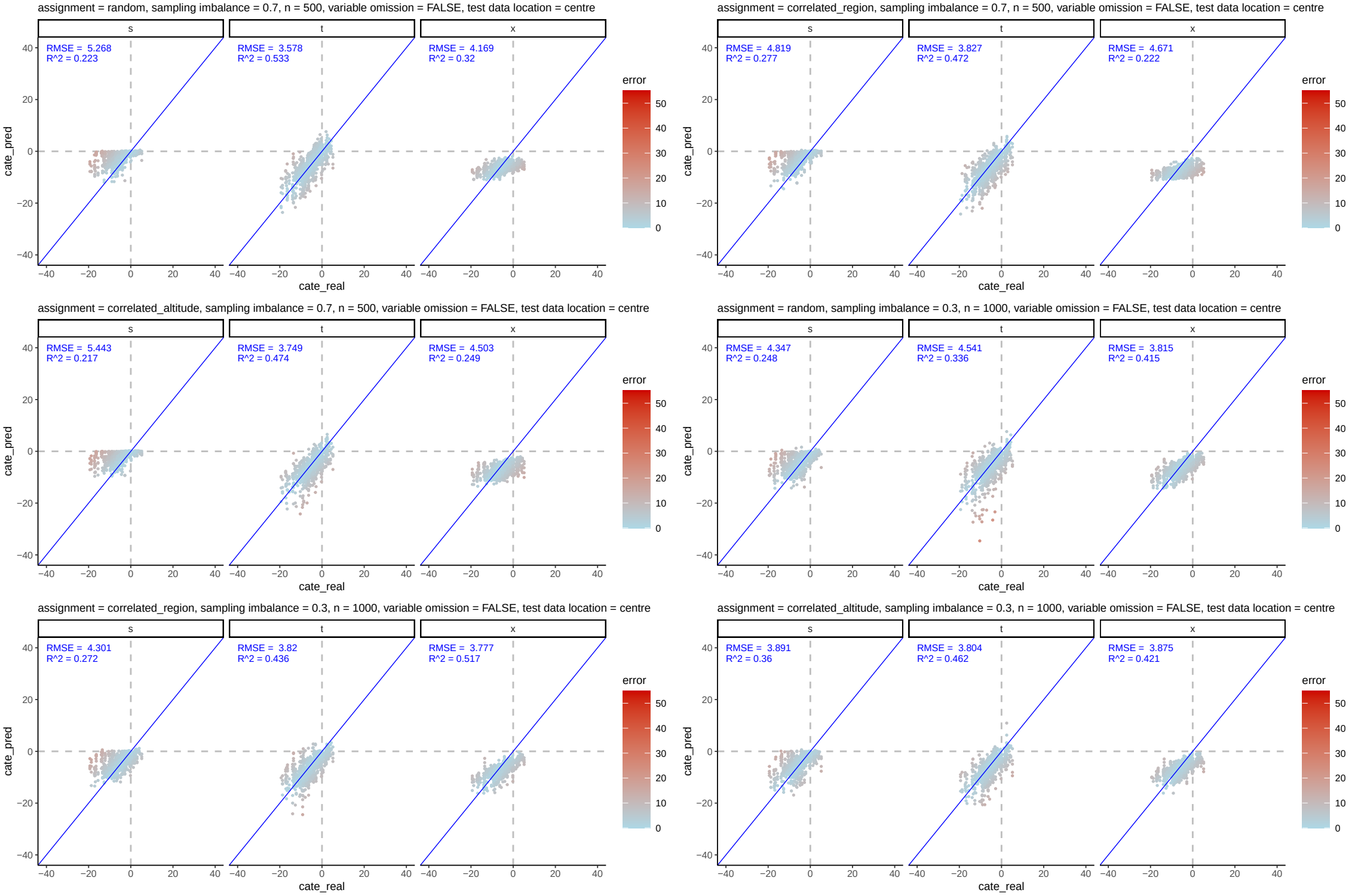


assignment = correlated_region, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = centre

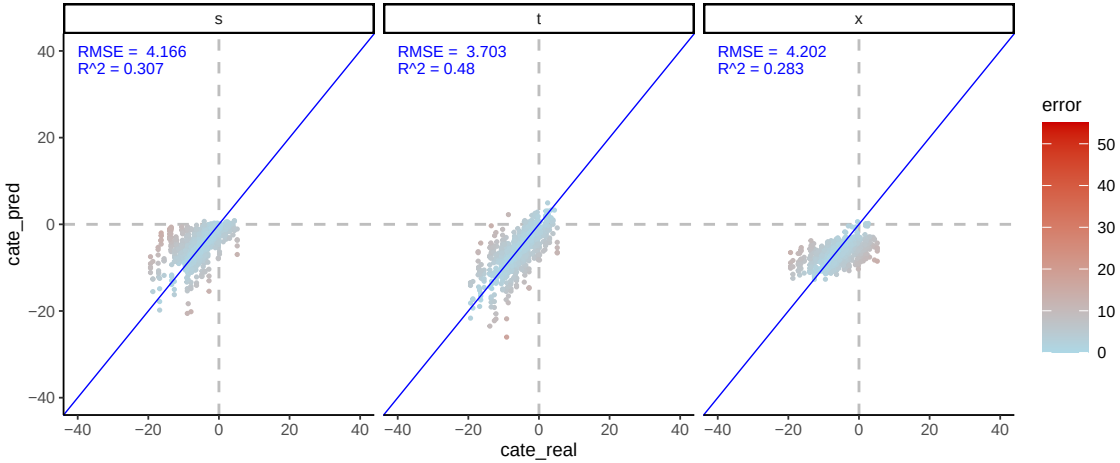


assignment = correlated_altitude, sampling imbalance = 0.5, n = 500, variable omission = FALSE, test data location = centre

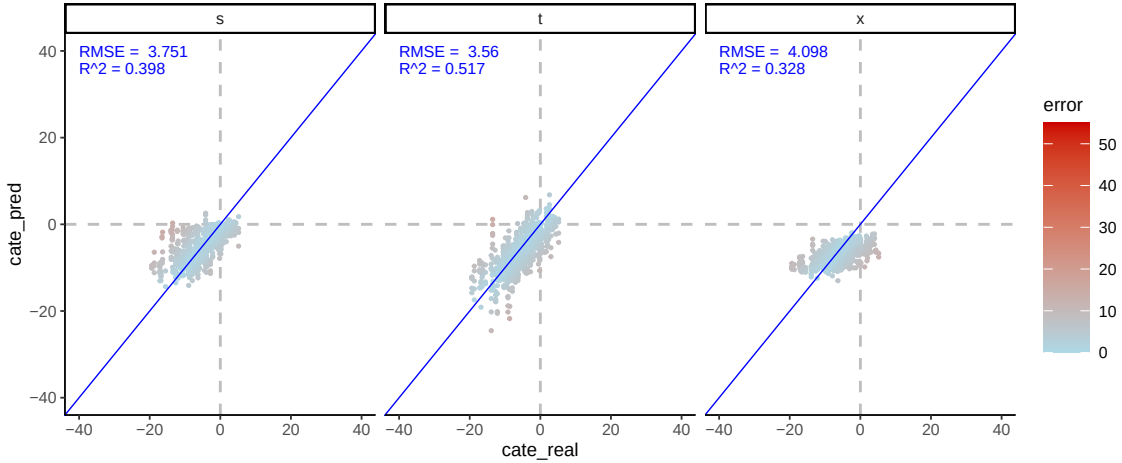



assignment = random, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = centre
s
RMSE = 5.268
R^2 = 0.223
t
RMSE = 3.578
R^2 = 0.533
x
RMSE = 4.169
R^2 = 0.32
assignment = correlated_region, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = centre
s
RMSE = 4.819
R^2 = 0.277
t
RMSE = 3.827
R^2 = 0.472
x
RMSE = 4.671
R^2 = 0.222
assignment = correlated_altitude, sampling imbalance = 0.7, n = 500, variable omission = FALSE, test data location = centre
s
RMSE = 5.443
R^2 = 0.217
t
RMSE = 3.749
R^2 = 0.474
x
RMSE = 4.503
R^2 = 0.249
assignment = random, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = centre
s
RMSE = 4.347
R^2 = 0.248
t
RMSE = 4.541
R^2 = 0.336
x
RMSE = 3.815
R^2 = 0.415
assignment = correlated_region, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = centre
s
RMSE = 4.301
R^2 = 0.272
t
RMSE = 3.82
R^2 = 0.436
x
RMSE = 3.777
R^2 = 0.517
assignment = correlated_altitude, sampling imbalance = 0.3, n = 1000, variable omission = FALSE, test data location = centre
s
RMSE = 3.891
R^2 = 0.36
t
RMSE = 3.804
R^2 = 0.462
x
RMSE = 3.875
R^2 = 0.421
cate_pred
cate_real
error
−40
−20
0
20
40
0
10
20
30
40
50

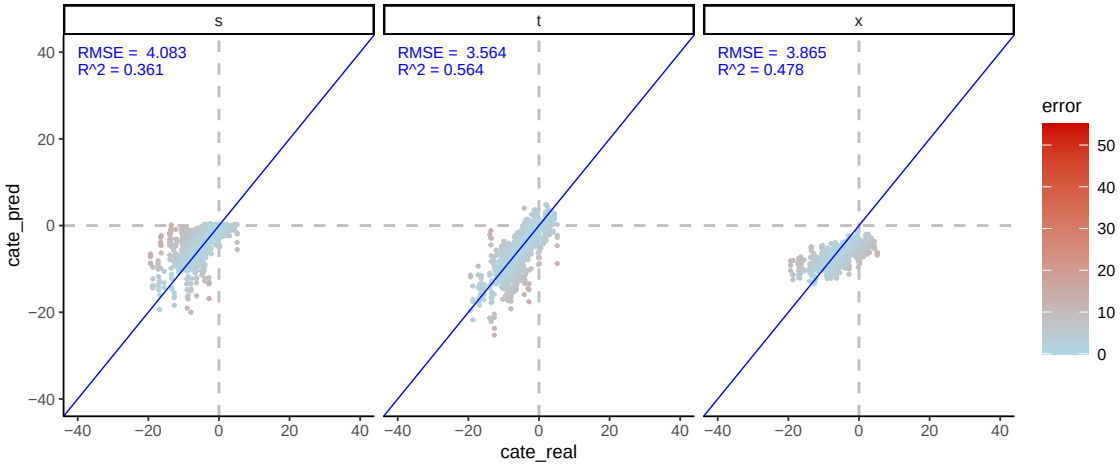
assignment = random, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = centre



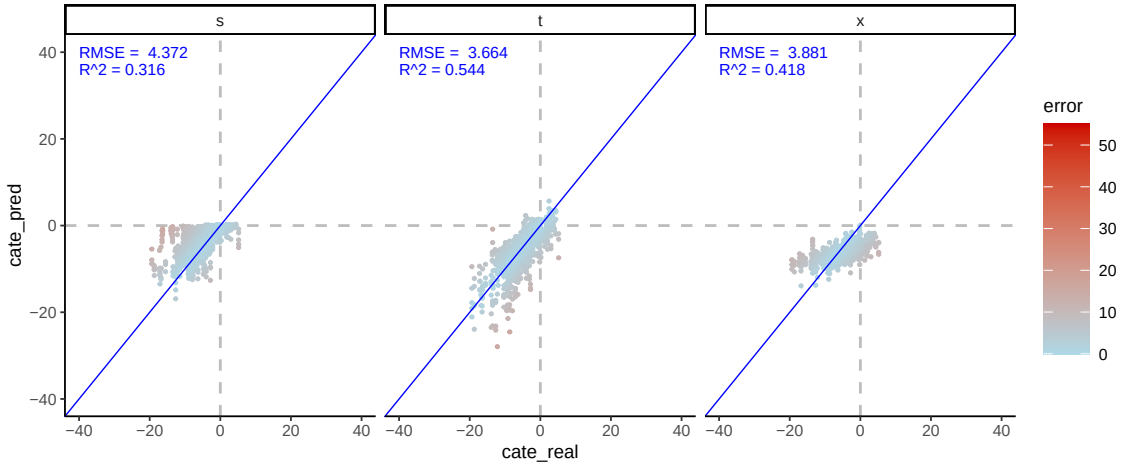
assignment = correlated_region, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = centre



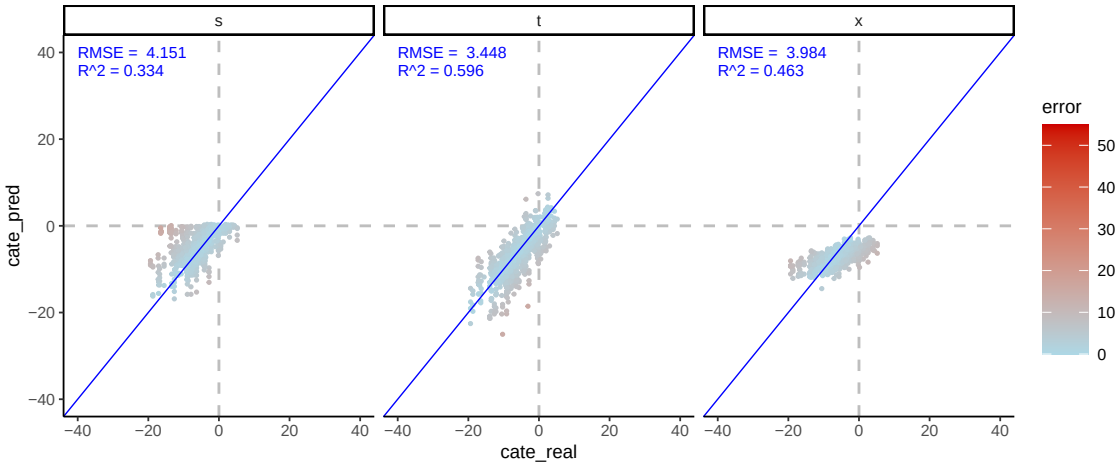
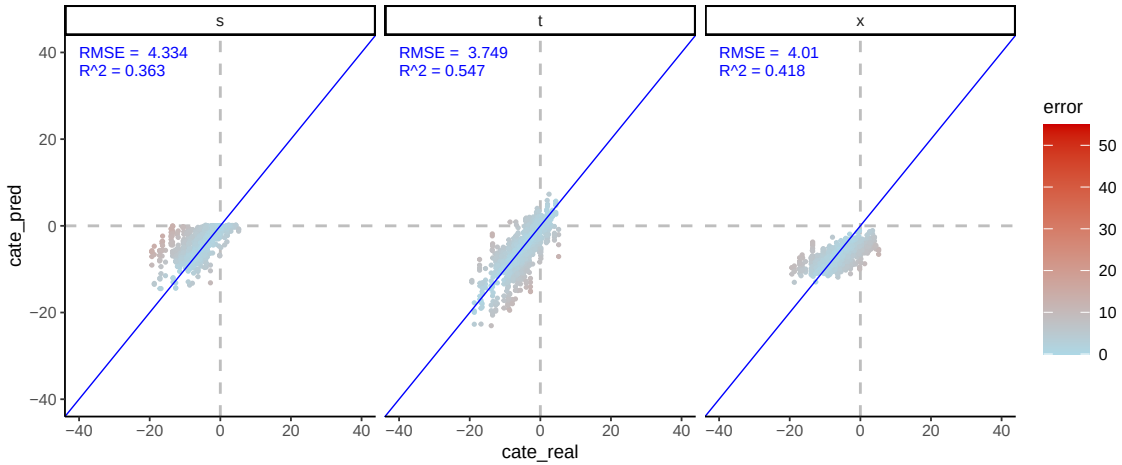
assignment = correlated_altitude, sampling imbalance = 0.5, n = 1000, variable omission = FALSE, test data location = centre



assignment = random, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = centre



assignment = correlated_region, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = centre



assignment = correlated_altitude, sampling imbalance = 0.7, n = 1000, variable omission = FALSE, test data location = centre