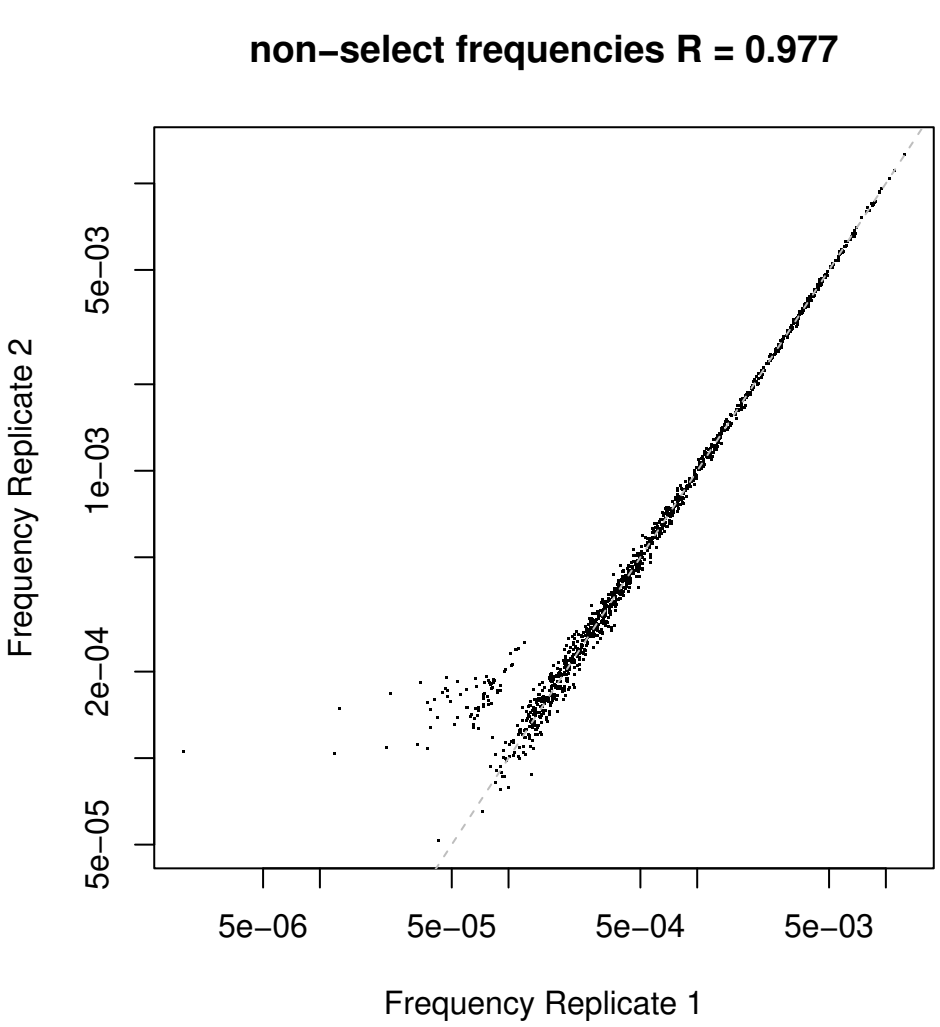
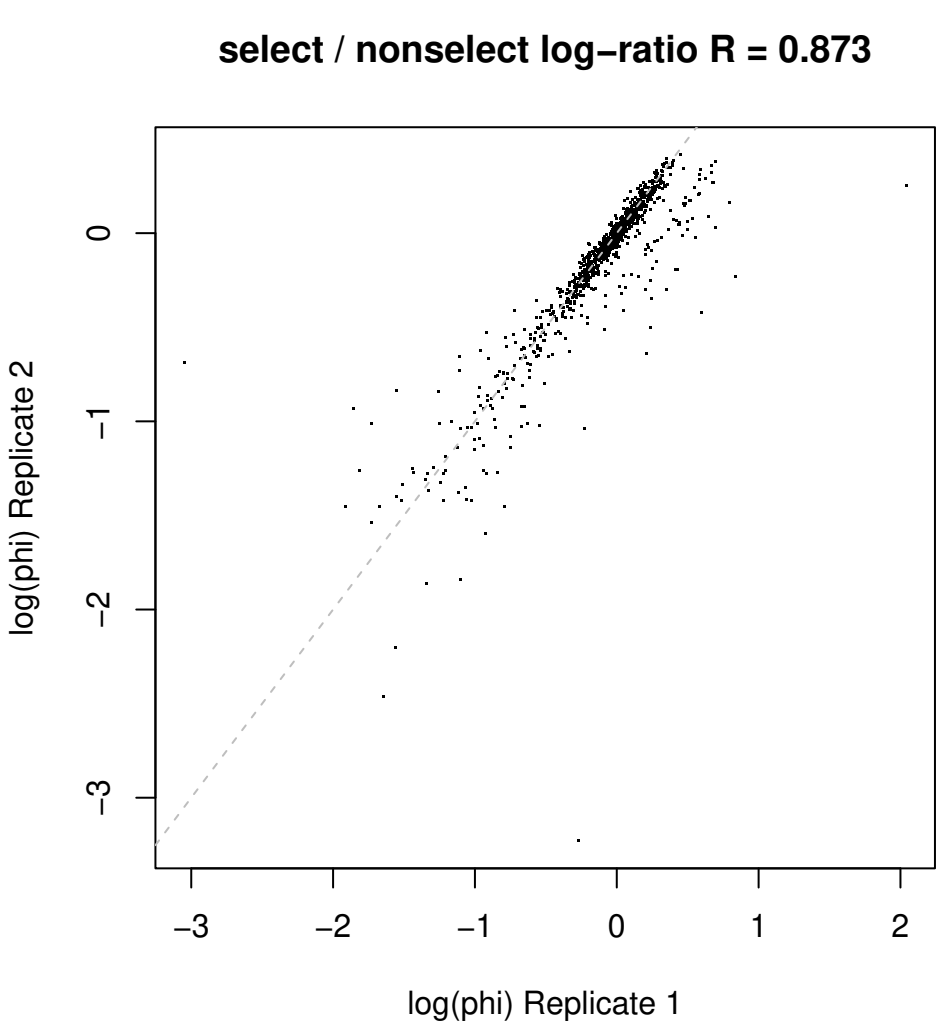
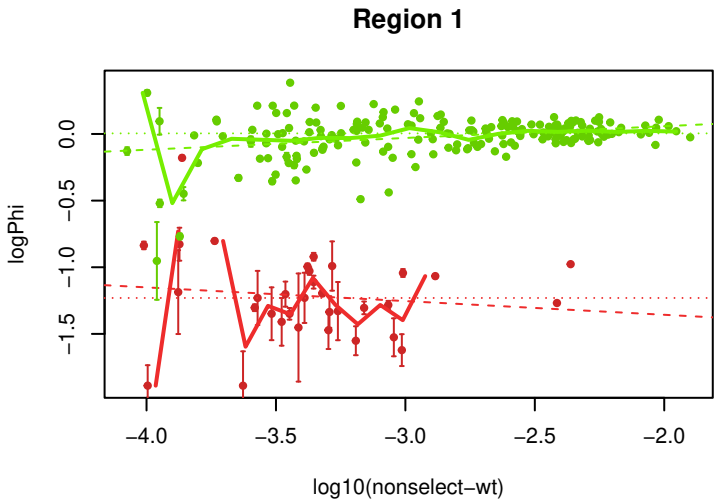
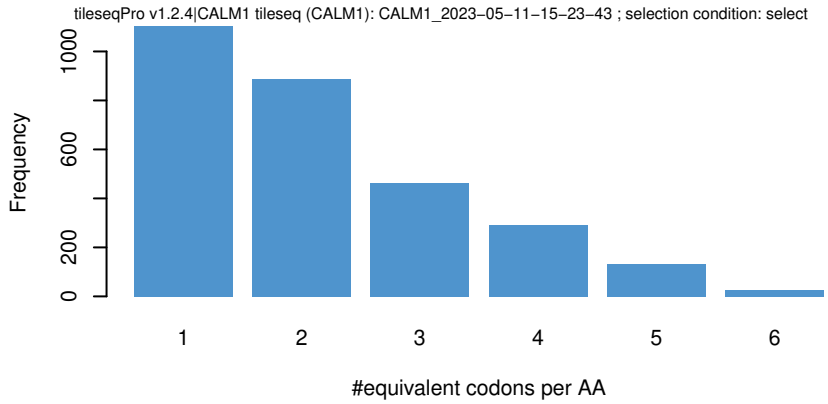
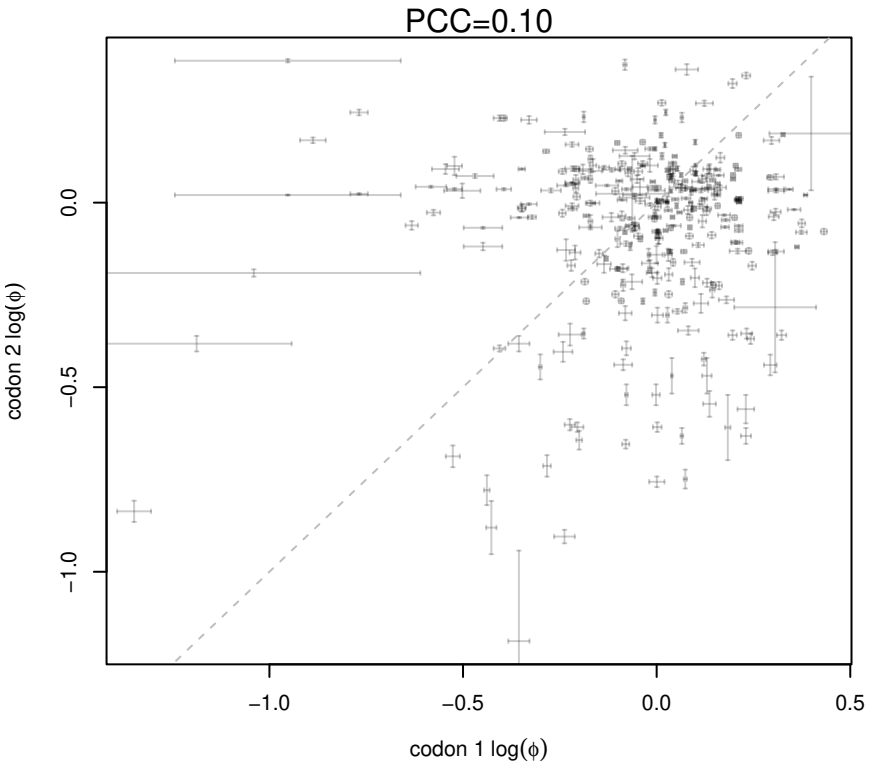
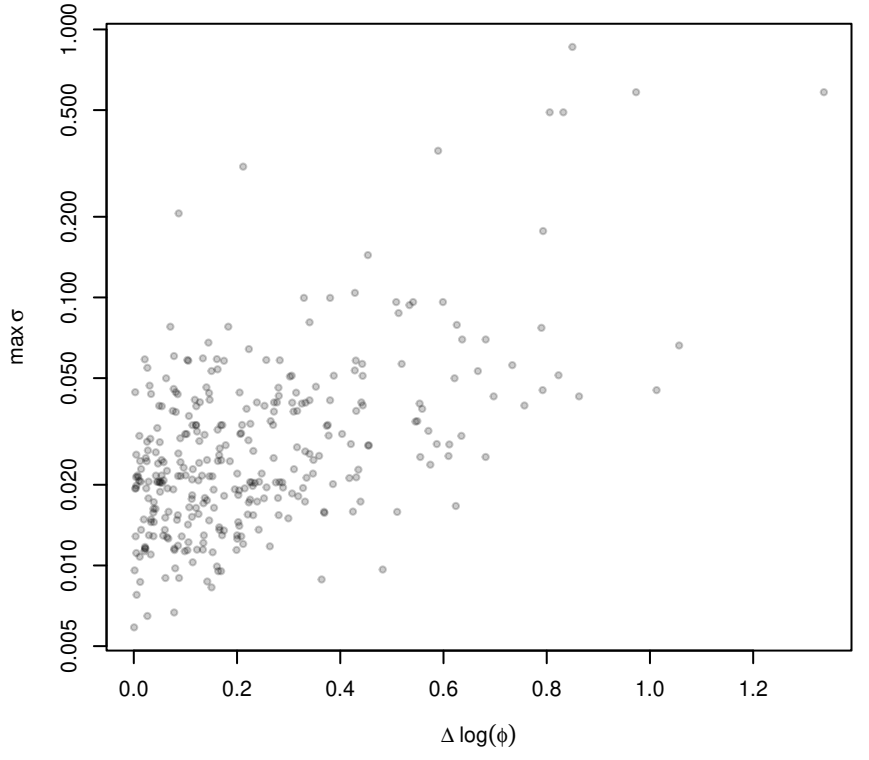

non−select frequencies R = 0.977
Frequency Replicate 2
Frequency Replicate 1
5e−05
2e−04
1e−03
5e−03
5e−06
5e−05
5e−04
5e−03


select / nonselect log−ratio R = 0.873
log(phi) Replicate 2
log(phi) Replicate 1
−3
−2
−1
0
1
2

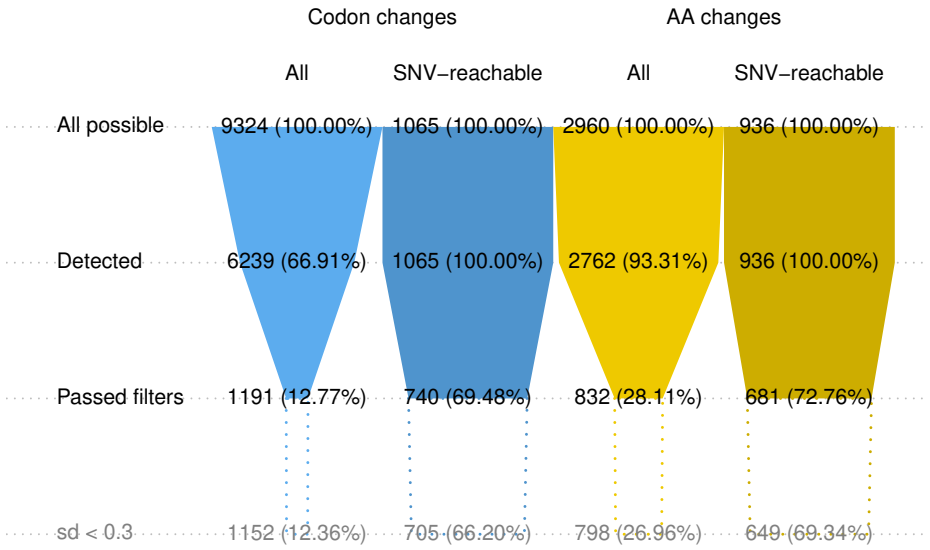

Region 1
logPhi
0.0
−0.5
−1.0
−1.5
−4.0
−3.5
−3.0
−2.5
−2.0
log10(nonselect−wt)


tileseqPro v1.2.4|CALM1 tileseq (CALM1): CALM1_2023−05−11−15−23−43 ; selection condition: select
Frequency
0
200
600
1000
1
2
3
4
5
6
#equivalent codons per AA

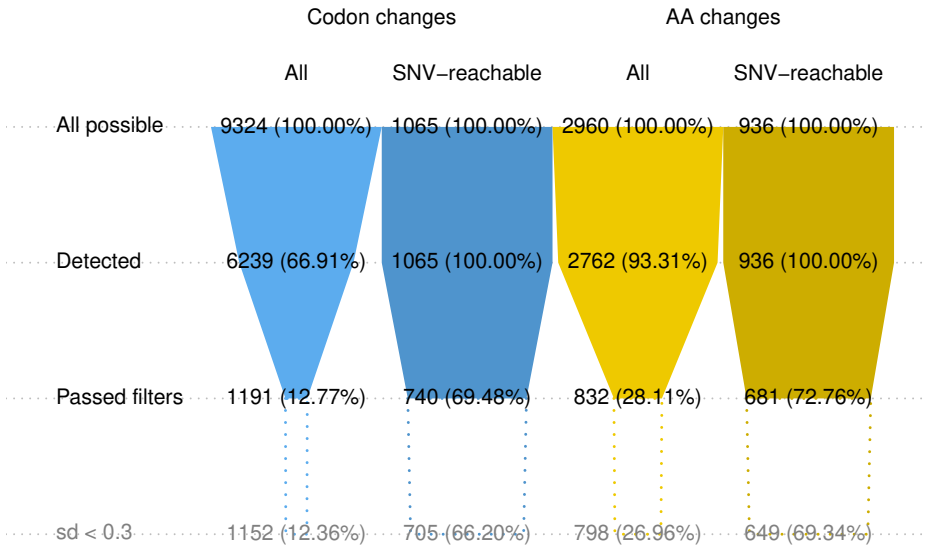

PCC=0.10
codon 2 log(ϕ)
−1.0
−0.5
0.0
codon 1 log(ϕ)
−1.0
−0.5
0.0
0.5

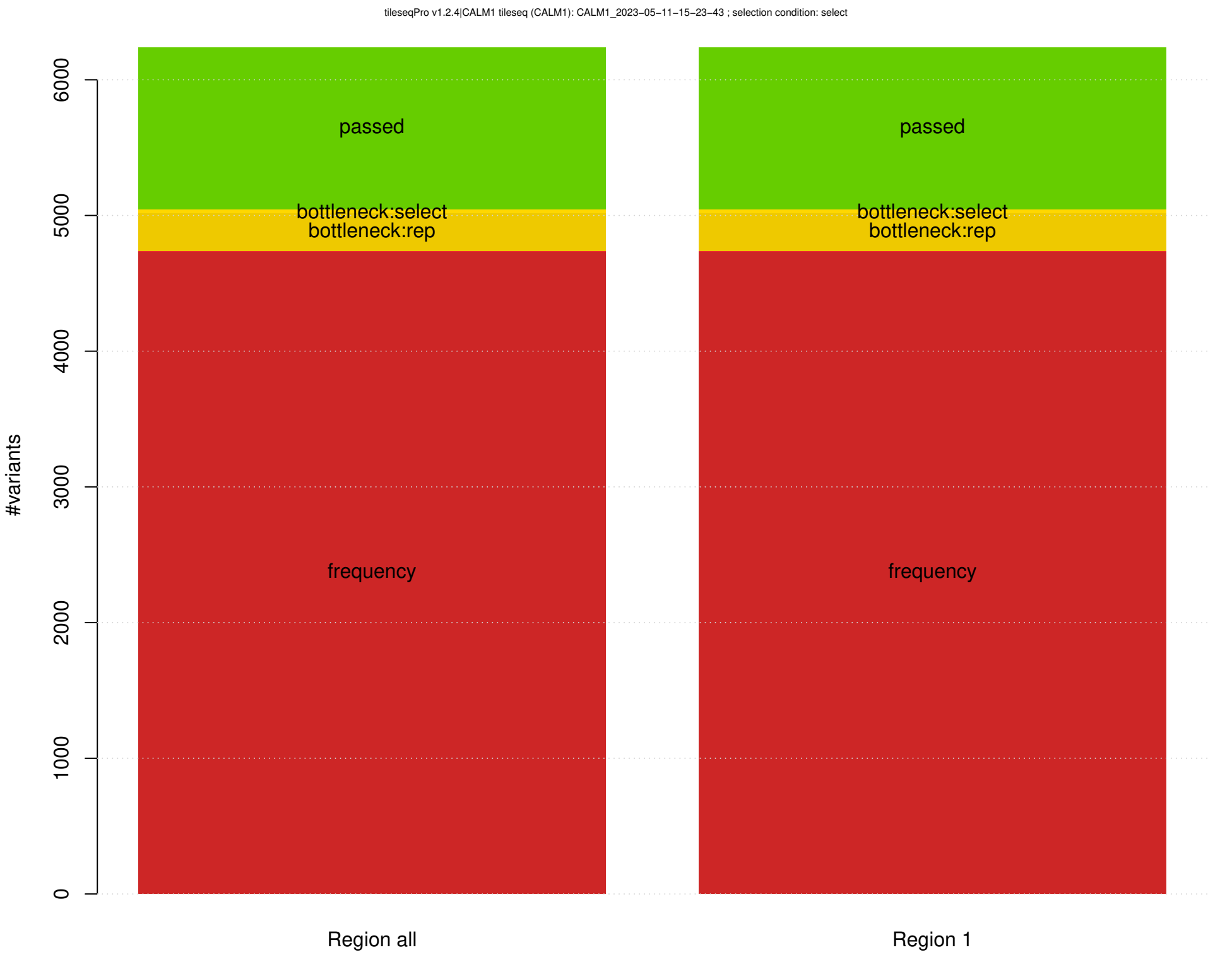

max σ
0.005
0.010
0.020
0.050
0.100
0.200
0.500
1.000
0.0
0.2
0.4
0.6
0.8
1.0
1.2
Δ log(ϕ)

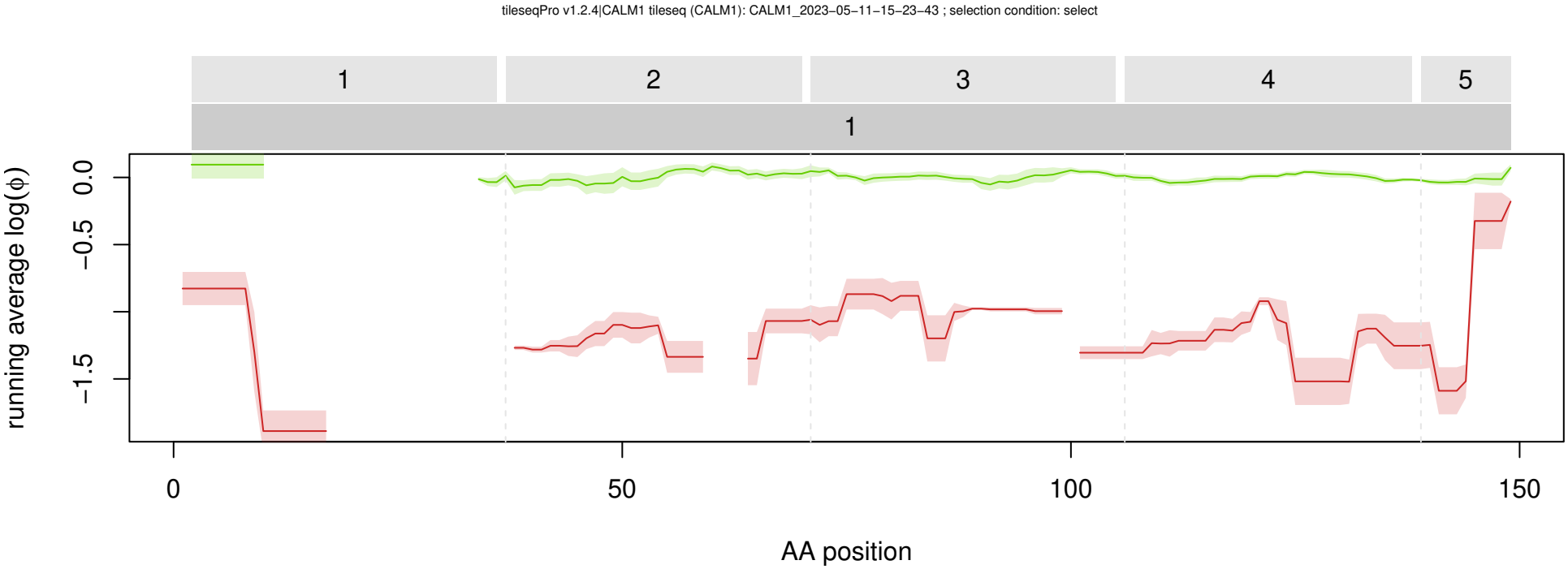
Entire Construct

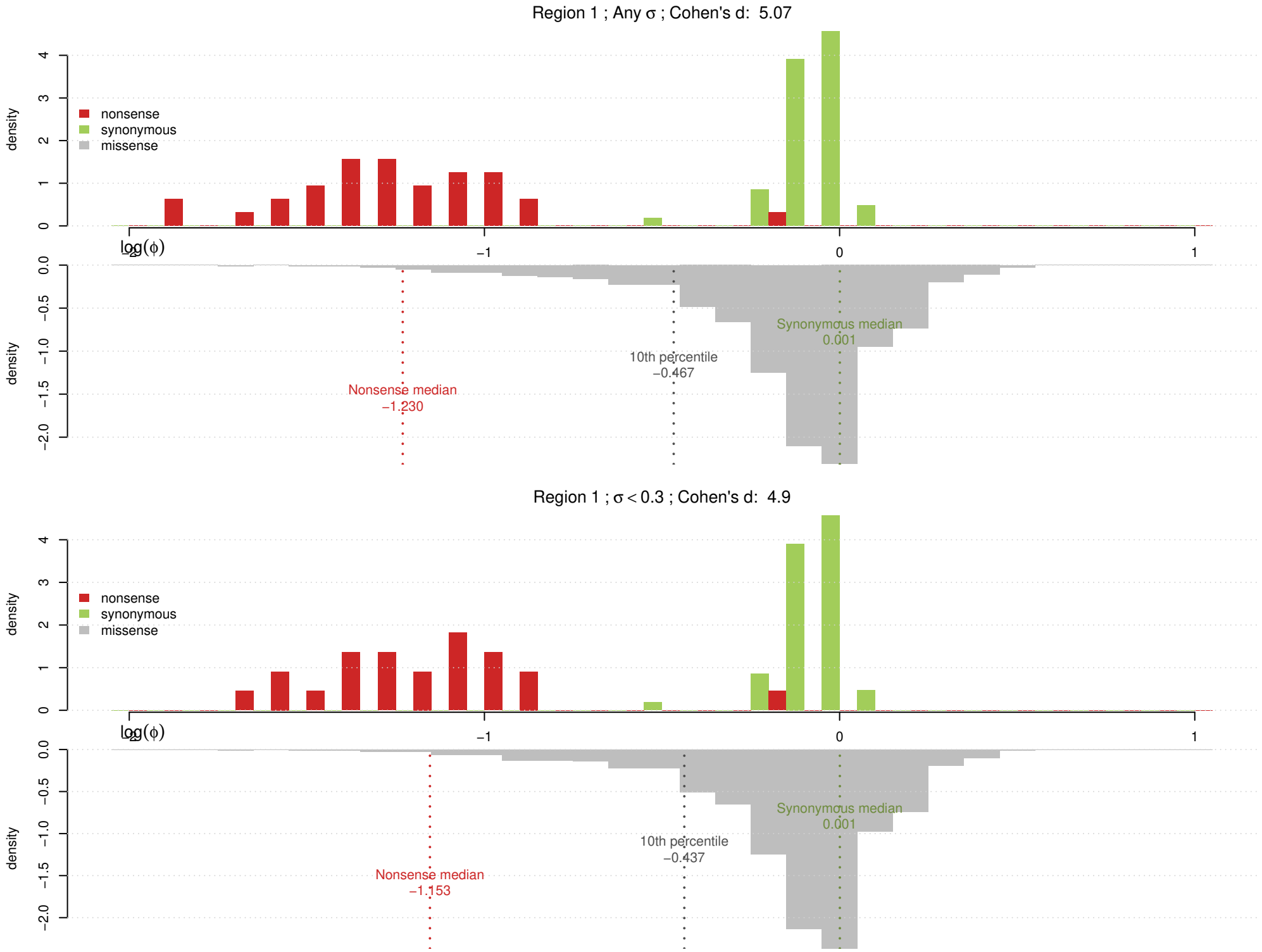


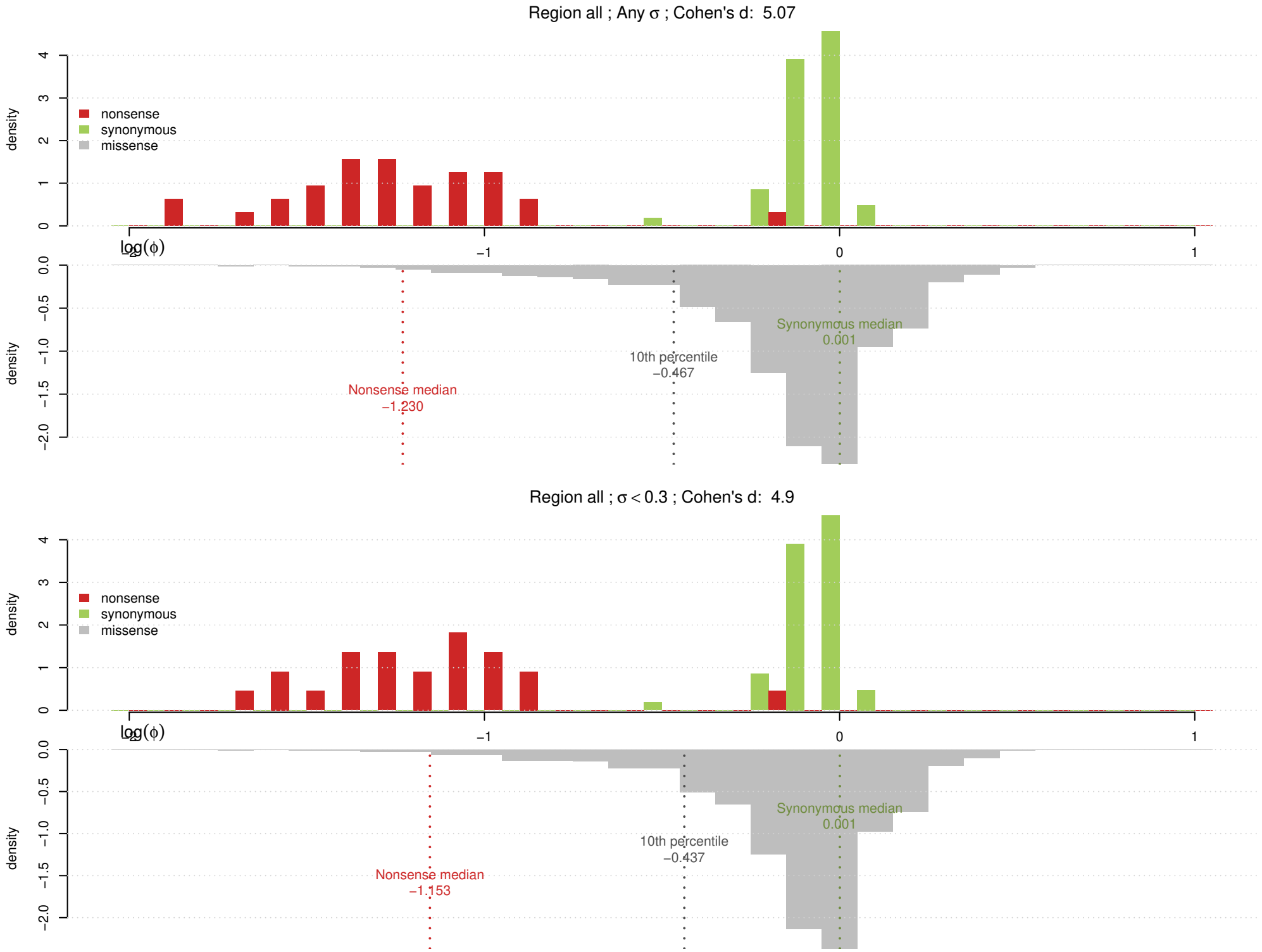
Region #1

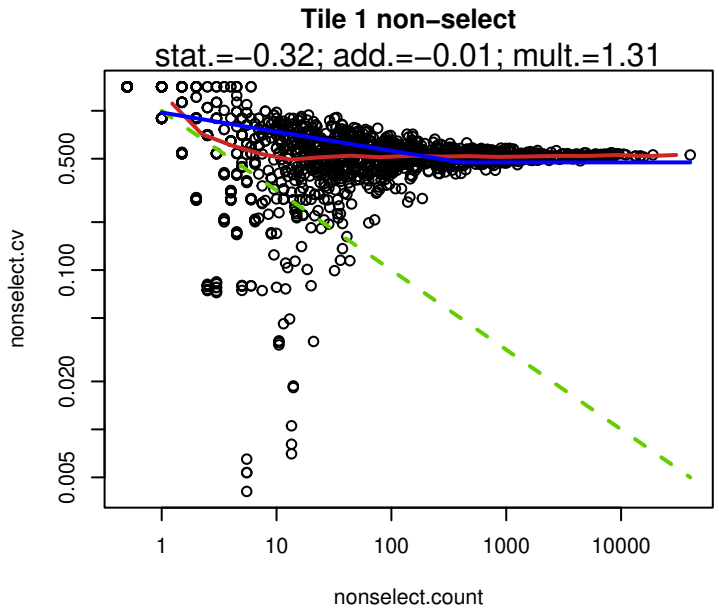


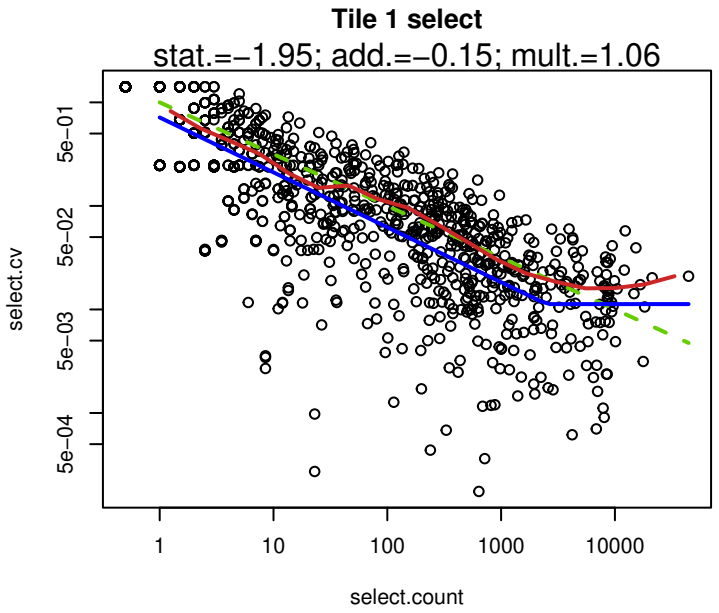

tileseqPro v1.2.4|CALM1 tileseq (CALM1): CALM1_2023−05−11−15−23−43 ; selection condition: select
#variants
0
1000
2000
3000
4000
5000
6000
passed
bottleneck:select
bottleneck:rep
frequency
passed
bottleneck:select
bottleneck:rep
frequency
Region all
Region 1

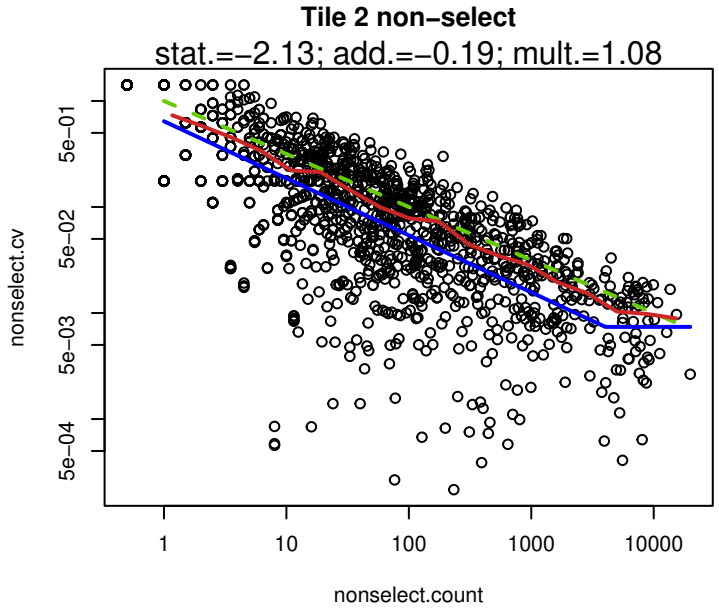

tileseqPro v1.2.4|CALM1 tileseq (CALM1): CALM1_2023−05−11−15−23−43 ; selection condition: select
1
2
3
4
5
1
running average log(ϕ)
0.0
−0.5
−1.5
0
50
100
150
AA position

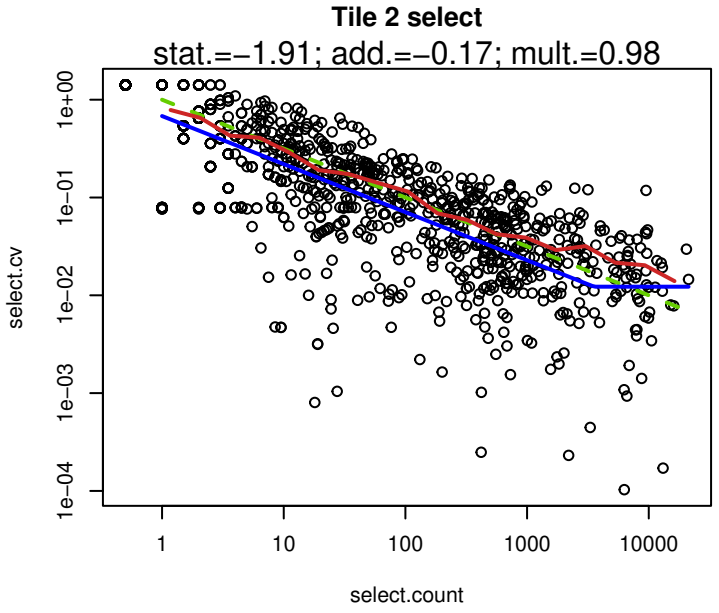

Region 1 ; Any σ ; Cohen's d: 5.07
density
nonsense
synonymous
missense
log2(ϕ)
Nonsense median
−1.230
10th percentile
−0.467
Synonymous median
0.001
Region 1 ; σ < 0.3 ; Cohen's d: 4.9
density
nonsense
synonymous
missense
log2(ϕ)
Nonsense median
−1.153
10th percentile
−0.437
Synonymous median
0.001

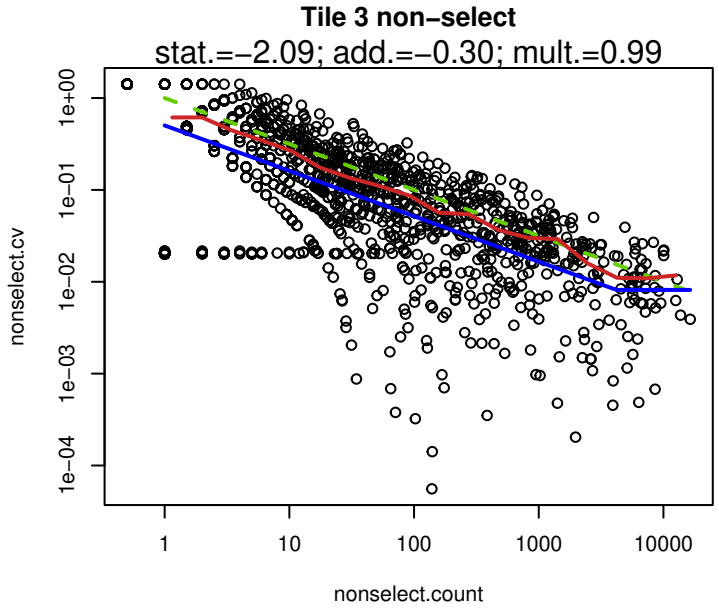

Region all ; Any σ ; Cohen's d: 5.07
density
nonsense
synonymous
missense
log2(ϕ)
Nonsense median
−1.230
10th percentile
−0.467
Synonymous median
0.001
Region all ; σ < 0.3 ; Cohen's d: 4.9
density
nonsense
synonymous
missense
log2(ϕ)
Nonsense median
−1.153
10th percentile
−0.437
Synonymous median
0.001

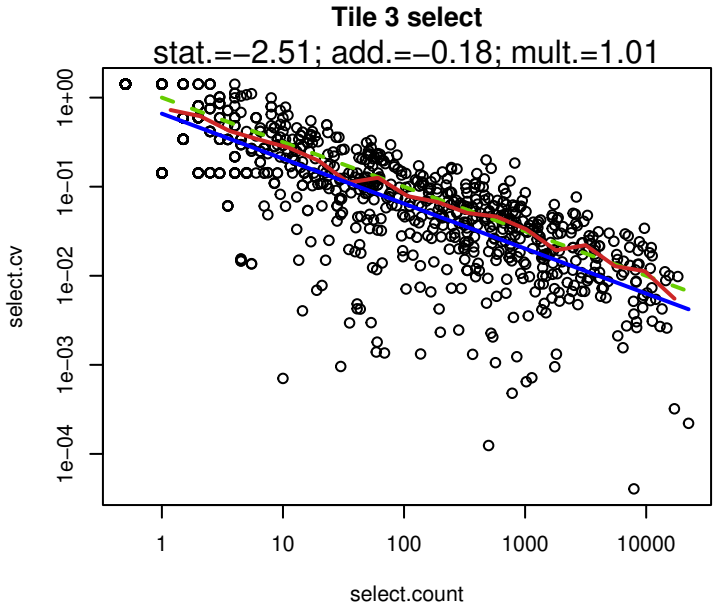

Tile 1 non-select
stat.=-0.32; add.=-0.01; mult.=1.31
nonselect.cv
0.500
0.100
0.020
0.005
1
10
100
1000
10000
nonselect.count

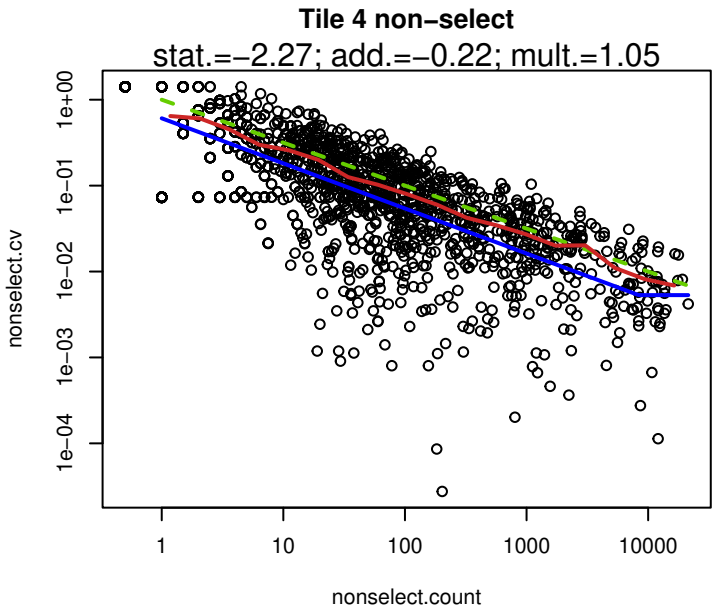

Tile 1 select
stat.=-1.95; add.=-0.15; mult.=1.06
select.cv
5e-01
5e-02
5e-03
5e-04
1
10
100
1000
10000
select.count

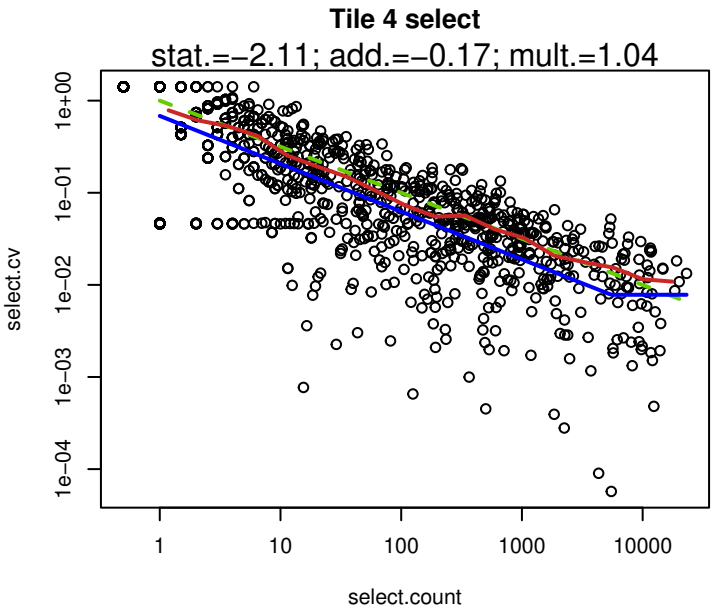

Tile 2 non-select
stat.=-2.13; add.=-0.19; mult.=1.08
nonselect.cv
5e-01
5e-02
5e-03
5e-04
1
10
100
1000
10000
nonselect.count

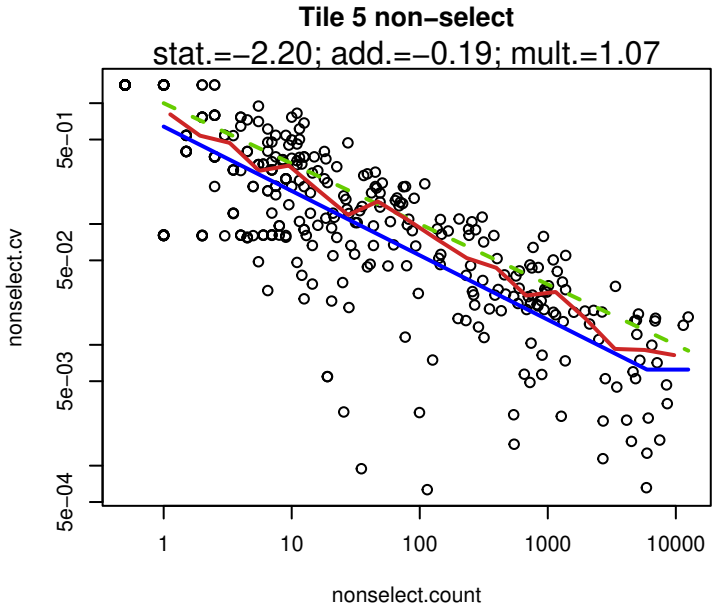

Tile 2 select
stat.=-1.91; add.=-0.17; mult.=0.98
select.cv
1e+00
1e-01
1e-02
1e-03
1e-04
1
10
100
1000
10000
select.count

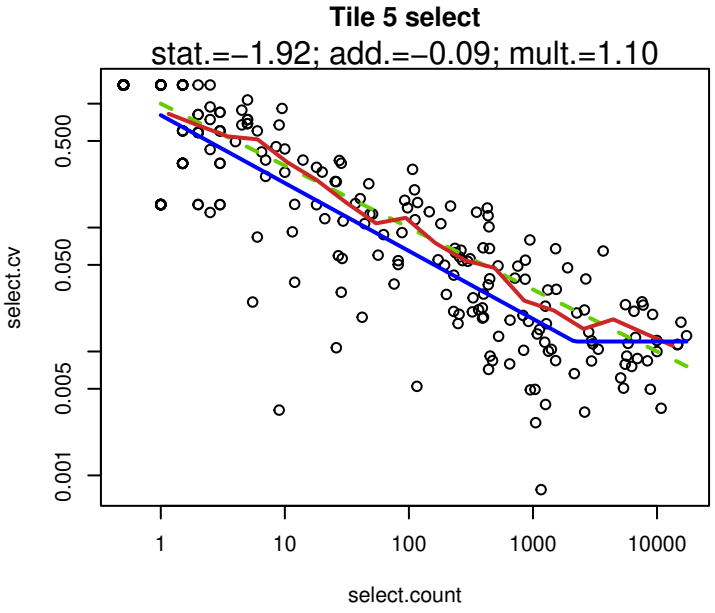

Tile 3 non-select
stat.=-2.09; add.=-0.30; mult.=0.99
nonselect.cv
1e+00
1e-01
1e-02
1e-03
1e-04
1
10
100
1000
10000
nonselect.count

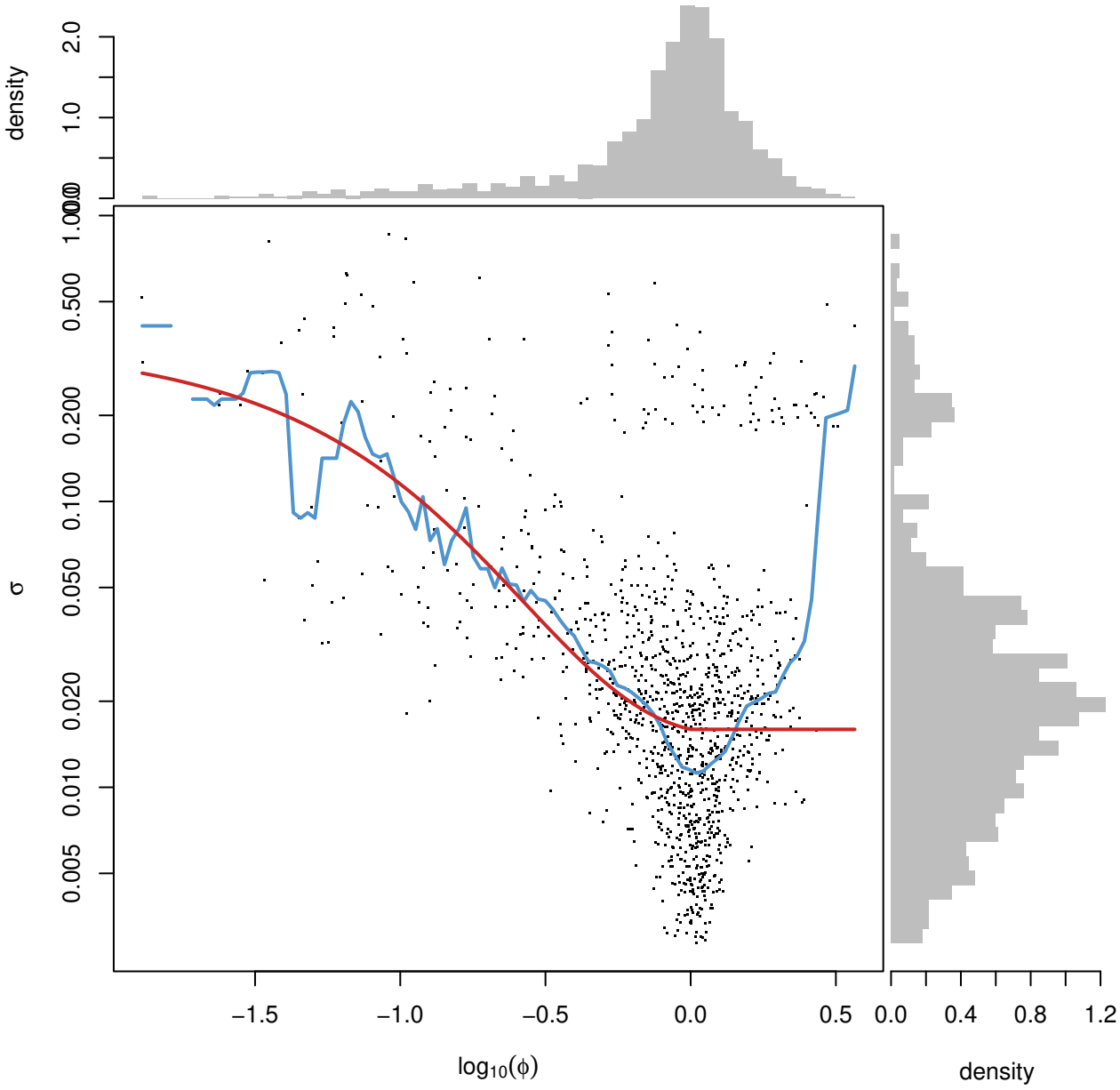

Tile 3 select
stat.=-2.51; add.=-0.18; mult.=1.01
select.cv
1e+00
1e-01
1e-02
1e-03
1e-04
1
10
100
1000
10000
select.count


Tile 4 non−select
stat.=−2.27; add.=−0.22; mult.=1.05
nonselect.cv
1e−04
1e−03
1e−02
1e−01
1e+00
1
10
100
1000
10000
nonselect.count


Tile 4 select
stat.=−2.11; add.=−0.17; mult.=1.04
select.cv
1e−04
1e−03
1e−02
1e−01
1e+00
1
10
100
1000
10000
select.count


Tile 5 non−select
stat.=−2.20; add.=−0.19; mult.=1.07
nonselect.cv
5e−04
5e−03
5e−02
5e−01
1
10
100
1000
10000
nonselect.count


Tile 5 select
stat.=−1.92; add.=−0.09; mult.=1.10
select.cv
0.001
0.005
0.050
0.500
1
10
100
1000
10000
select.count


tileseqPro v1.2.4|CALM1 tileseq (CALM1): CALM1_2023−05−11−15−23−43 ; selection condition: select
density
2.0
1.0
0.0
σ
1.000
0.500
0.200
0.100
0.050
0.020
0.010
0.005
−1.5
−1.0
−0.5
0.0
0.5
log10(ϕ)
0.0
0.4
0.8
1.2
density