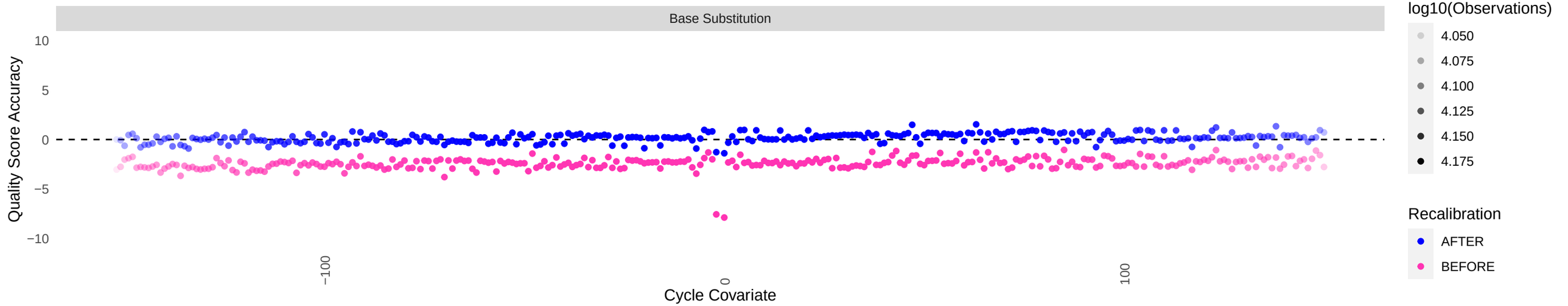
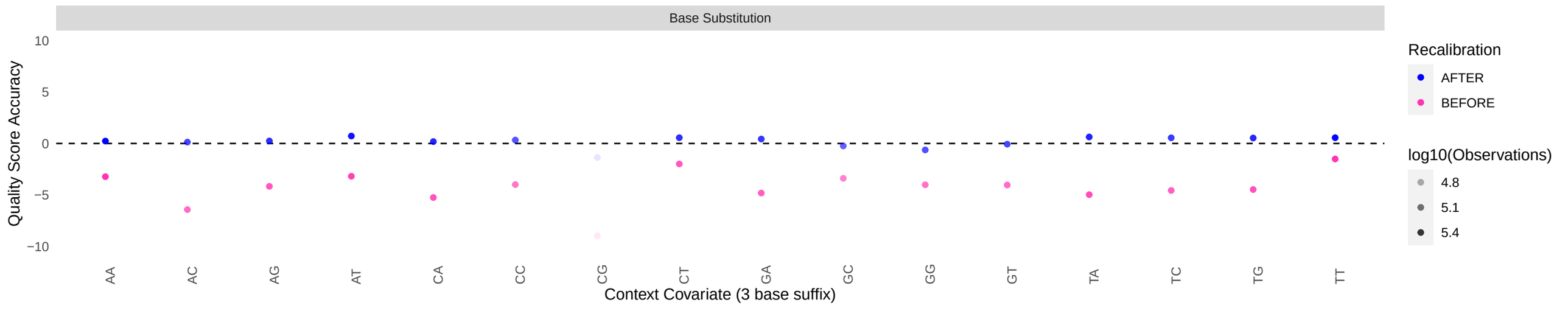
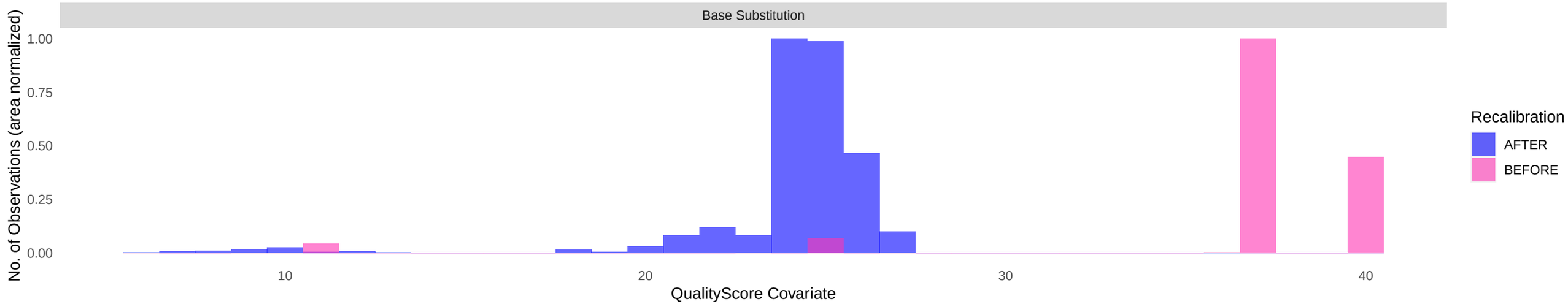
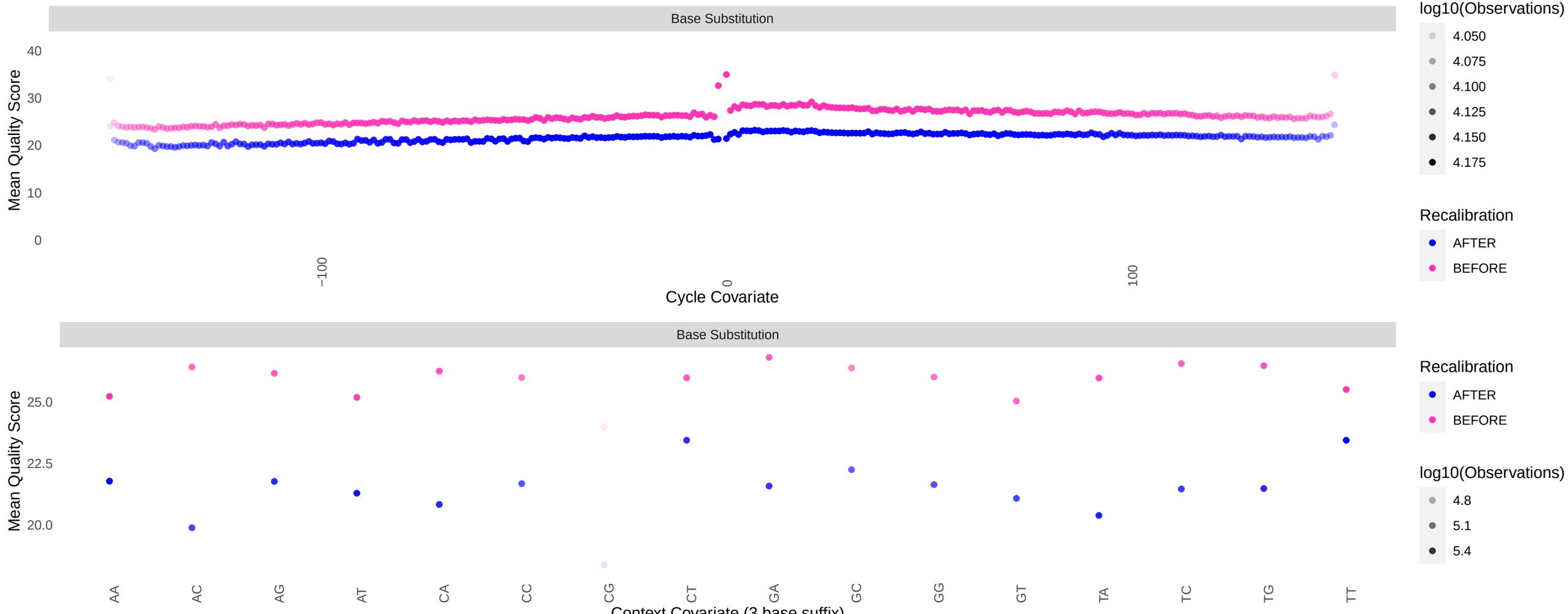
Argument	Value
binary_tag_name	None
covariate	ReadGroup,QualityScore,Context,Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	−1
no_standard_covs	false
quantizing_levels	16
run_without_dbsnp	false
solid_nocall_strategy	THROW_EXCEPTION
solid_recal_mode	SET_Q_ZERO

Base Substitution
Empirical Quality Score
30
20
10
10
20
30
40
Reported Quality Score
Recalibration
AFTER
BEFORE
log10(Observations)
2
3
4
5
6


Base Substitution
Quality Score Accuracy
10
5
0
−5
−10
−100
0
100
Cycle Covariate
log10(Observations)
4.050
4.075
4.100
4.125
4.150
4.175
Recalibration
AFTER
BEFORE


Base Substitution
Quality Score Accuracy
10
5
0
−5
−10
AA
AC
AG
AT
CA
CC
CG
CT
GA
GC
GG
GT
TA
TC
TG
TT
Context Covariate (3 base suffix)
Recalibration
AFTER
BEFORE
log10(Observations)
4.8
5.1
5.4


Base Substitution
No. of Observations (area normalized)
1.00
0.75
0.50
0.25
0.00
10
20
30
40
QualityScore Covariate
Recalibration
AFTER
BEFORE


Base Substitution
Mean Quality Score
40
30
20
10
0
−100
0
100
Cycle Covariate
log10(Observations)
4.050
4.075
4.100
4.125
4.150
4.175
Recalibration
AFTER
BEFORE

Base Substitution
Mean Quality Score
25.0
22.5
20.0
AA
AC
AG
AT
CA
CC
CG
CT
GA
GC
GG
GT
TA
TC
TG
TT
Context Covariate (3 base suffix)
Recalibration
AFTER
BEFORE
log10(Observations)
4.8
5.1
5.4

Overall error rates by event type

ReadGroup	HHY2MDSXX.4.SL378587
EventType	M
EmpiricalQuality	22.0
EstimatedQReported	25.9
Observations	4.33e+06
Errors	2.95e+04

Error rates by event type and initial quality score

ReadGroup	QualityScore	EventType	EmpiricalQuality	Observations	Errors
HHY2MDSXX.4.SL378587	11	M	10	123635	13502
HHY2MDSXX.4.SL378587	12	M	12	142	12
HHY2MDSXX.4.SL378587	14	M	14	312	21
HHY2MDSXX.4.SL378587	22	M	20	2294	54
HHY2MDSXX.4.SL378587	25	M	21	194522	1572
HHY2MDSXX.4.SL378587	26	M	24	2016	36
HHY2MDSXX.4.SL378587	35	M	35	26	0
HHY2MDSXX.4.SL378587	36	M	34	6113	35
HHY2MDSXX.4.SL378587	37	M	24	2766766	10566
HHY2MDSXX.4.SL378587	40	M	26	1238086	3654