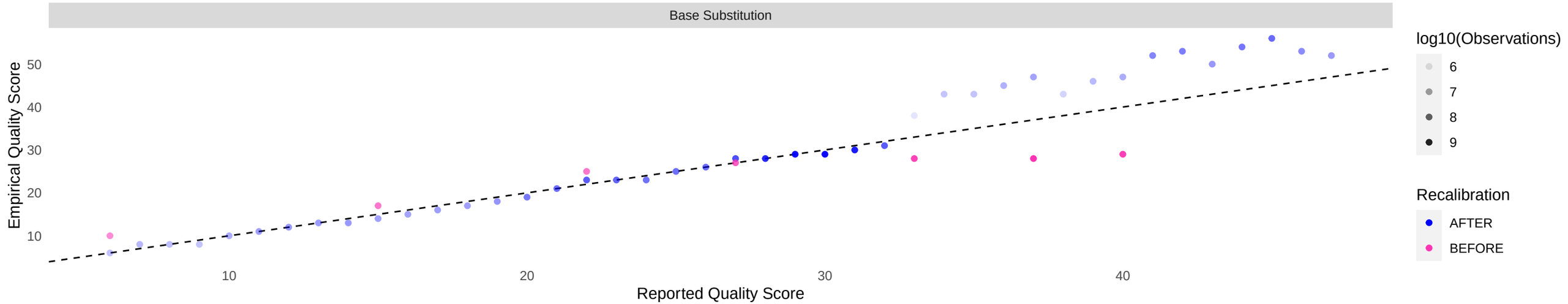
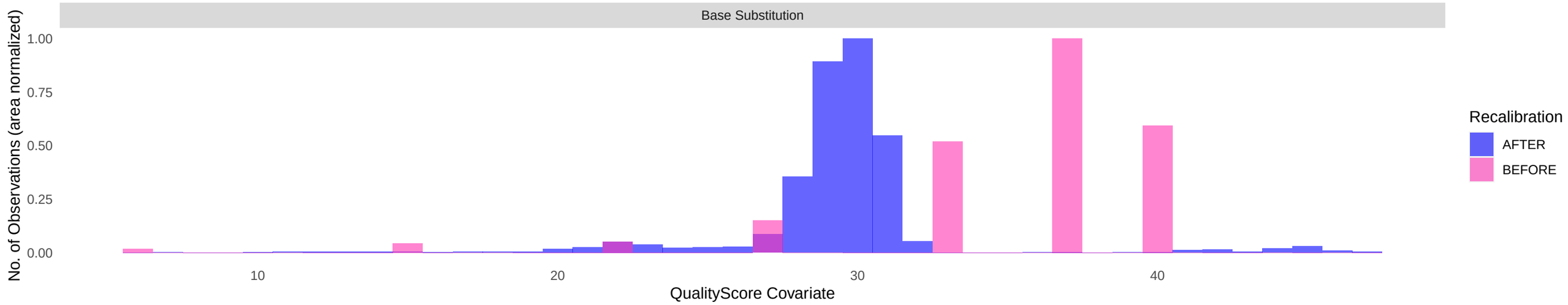
Argument	Value
binary_tag_name	None
covariate	ReadGroup,QualityScore,Context,Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	−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
50
40
30
20
10
10
20
30
40
Reported Quality Score
log10(Observations)
6
7
8
9
Recalibration
AFTER
BEFORE

Base Substitution
Quality Score Accuracy
20
10
0
−10
−100
−50
0
50
100
Cycle Covariate
log10(Observations)
7.4
7.5
7.6
7.7
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)
log10(Observations)
8.4
8.6
8.8
Recalibration
AFTER
BEFORE


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
−50
0
50
100
Cycle Covariate
log10(Observations)
7.4
7.5
7.6
7.7
Recalibration
AFTER
BEFORE
Base Substitution
Mean Quality Score
27.5
25.0
22.5
AA
AC
AG
AT
CA
CC
CG
CT
GA
GC
GG
GT
TA
TC
TG
TT
Context Covariate (3 base suffix)
log10(Observations)
8.4
8.6
8.8
Recalibration
AFTER
BEFORE

Overall error rates by event type

ReadGroup	C547FACXX.3.TGACCA
EventType	M
EmpiricalQuality	26.0
EstimatedQReported	25.1
Observations	8.06e+09
Errors	2.04e+07

Error rates by event type and initial quality score

ReadGroup	QualityScore	EventType	EmpiricalQuality	Observations	Errors
C547FACXX.3.TGACCA	6	M	10	63492300	6292932
C547FACXX.3.TGACCA	15	M	17	152606520	2768734
C547FACXX.3.TGACCA	22	M	25	176737264	523802
C547FACXX.3.TGACCA	27	M	27	509305045	970530
C547FACXX.3.TGACCA	33	M	28	1758645218	2612712
C547FACXX.3.TGACCA	37	M	28	3388540571	4900270
C547FACXX.3.TGACCA	40	M	29	2012703127	2352552