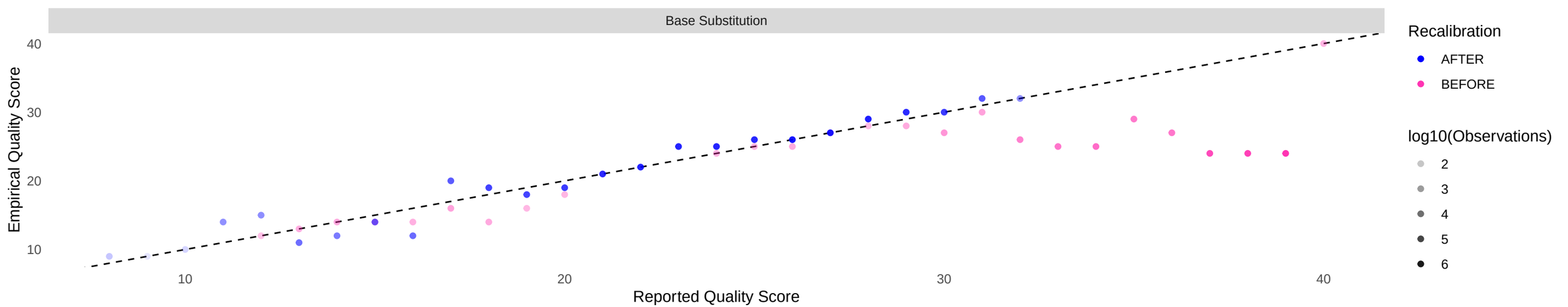
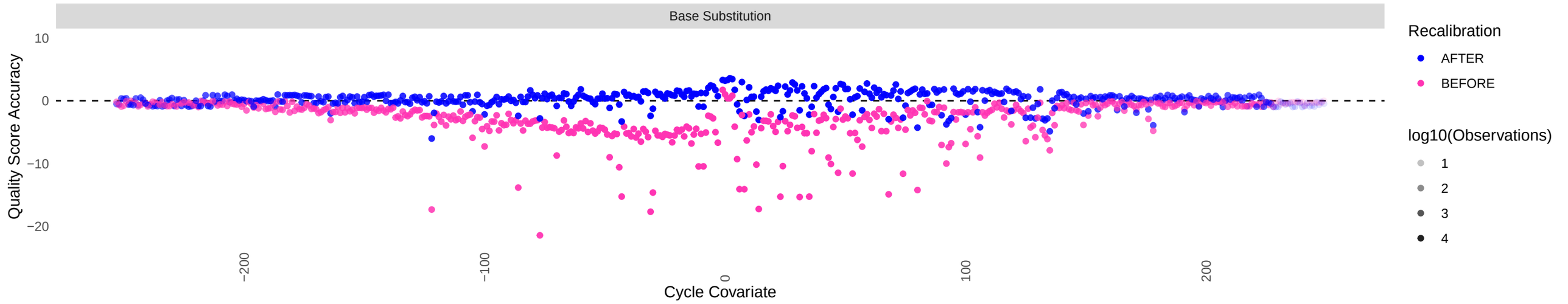
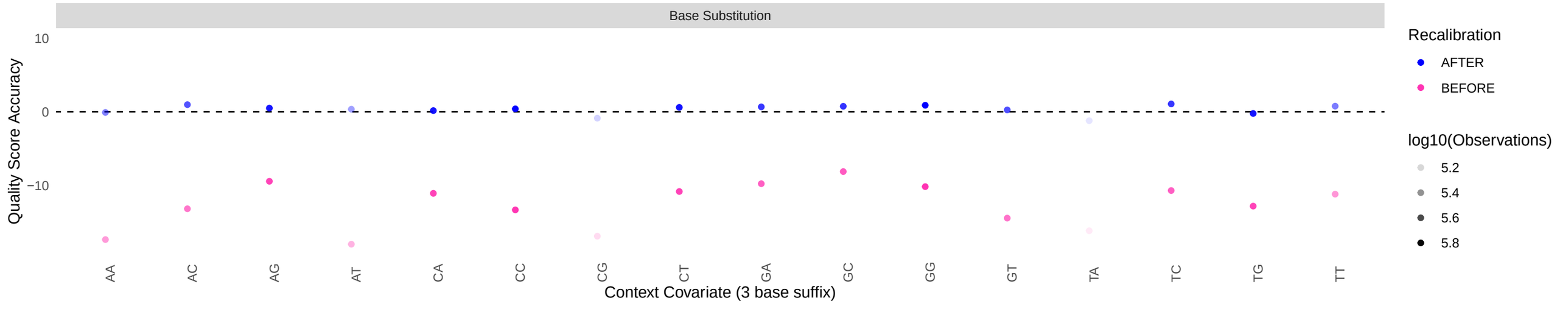
Argument	Value
binary_tag_name	None
covariate	ReadGroup,QualityScore,Context,Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	−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
40
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
0
−10
−20
−200
−100
0
100
200
Cycle Covariate
Recalibration
AFTER
BEFORE
log10(Observations)
1
2
3
4


Base Substitution
Quality Score Accuracy
10
0
−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)
5.2
5.4
5.6
5.8

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

−200
−100
0
100
200

Cycle Covariate

Recalibration
AFTER
BEFORE

log10(Observations)
1
2
3
4

Base Substitution

Mean Quality Score

35
30
25
20

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)
5.2
5.4
5.6
5.8

Overall error rates by event type

ReadGroup	M02172.1.SRR32572150
EventType	M
EmpiricalQuality	24.0
EstimatedQReported	37.1
Observations	6.97e+06
Errors	2.73e+04

Error rates by event type and initial quality score

ReadGroup	QualityScore	EventType	EmpiricalQuality	Observations	Errors
M02172.1.SRR32572150	12	M	12	265	17
M02172.1.SRR32572150	13	M	13	1040	42
M02172.1.SRR32572150	14	M	14	1366	58
M02172.1.SRR32572150	15	M	14	1122	54
M02172.1.SRR32572150	16	M	14	921	75
M02172.1.SRR32572150	17	M	16	2209	63
M02172.1.SRR32572150	18	M	14	1380	134
M02172.1.SRR32572150	19	M	16	544	62
M02172.1.SRR32572150	20	M	18	544	41
M02172.1.SRR32572150	21	M	21	17	4
M02172.1.SRR32572150	24	M	24	698	7
M02172.1.SRR32572150	25	M	25	580	9
M02172.1.SRR32572150	26	M	25	1207	15
M02172.1.SRR32572150	27	M	27	586	3
M02172.1.SRR32572150	28	M	28	411	2
M02172.1.SRR32572150	29	M	28	1244	10
M02172.1.SRR32572150	30	M	27	5375	64
M02172.1.SRR32572150	31	M	30	2167	10
M02172.1.SRR32572150	32	M	26	22708	153
M02172.1.SRR32572150	33	M	25	53091	318
M02172.1.SRR32572150	34	M	25	83281	402
M02172.1.SRR32572150	35	M	29	36605	155
M02172.1.SRR32572150	36	M	27	47051	262
M02172.1.SRR32572150	37	M	24	912529	3675
M02172.1.SRR32572150	38	M	24	1955260	7461
M02172.1.SRR32572150	39	M	24	3836630	14197
M02172.1.SRR32572150	40	M	40	675	1