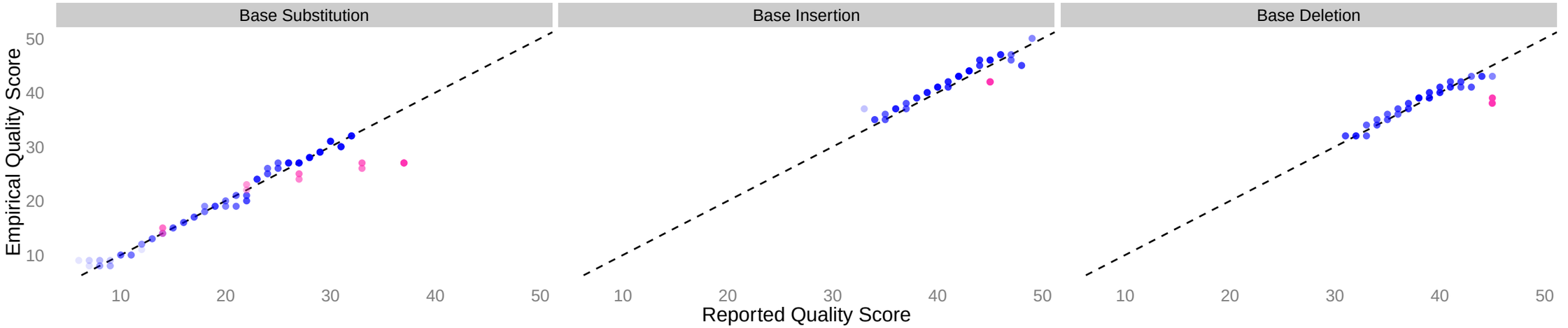
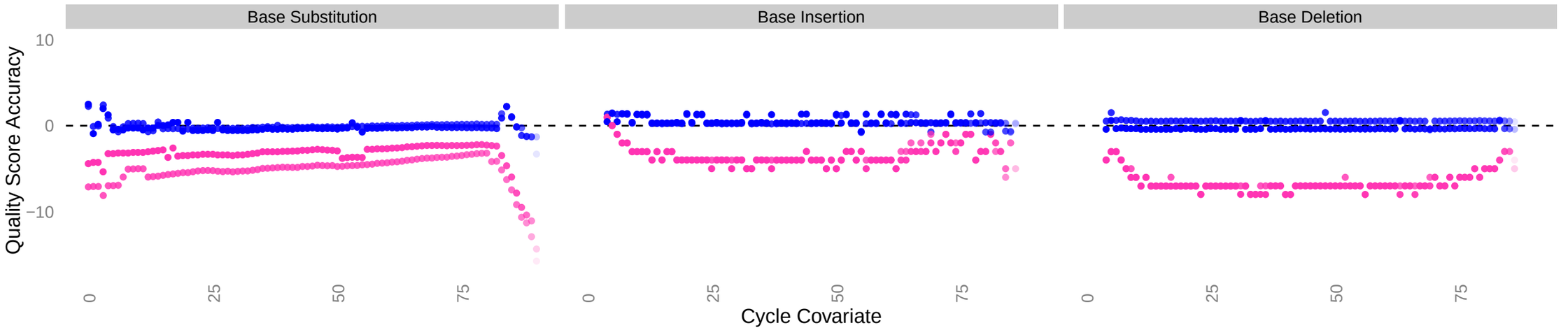
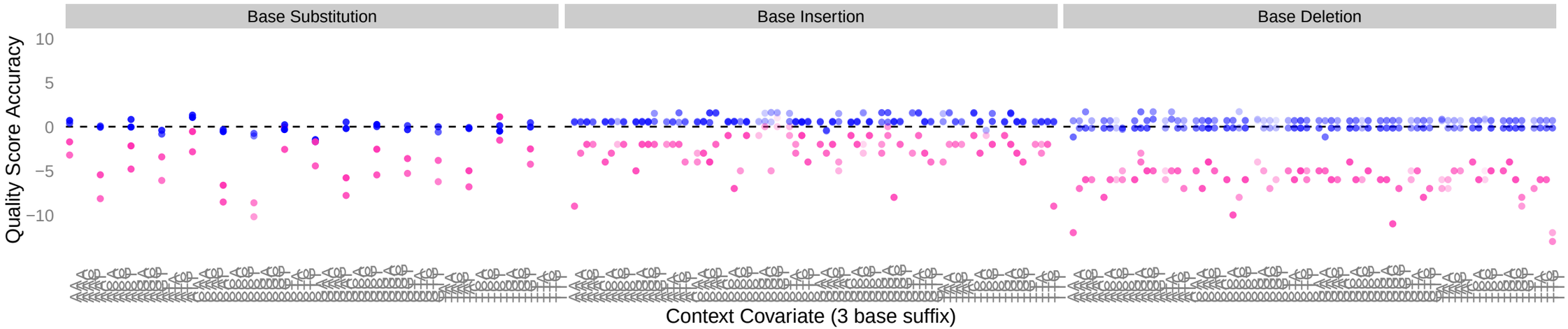
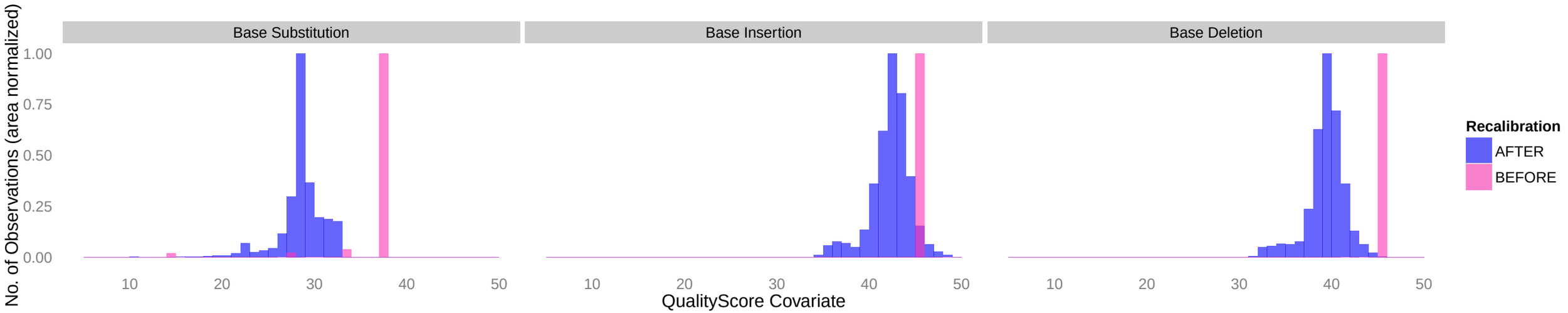
Argument	Value
binary_tag_name	None
covariate	ReadGroup,QualityScore,Context,Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality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


Base Substitution
Base Insertion
Base Deletion
Quality Score Accuracy
10
0
−10
0
25
50
75
Cycle Covariate
Recalibration
AFTER
BEFORE
log10(Observations)
7.2
7.6
8.0


Base Substitution
Base Insertion
Base Deletion
Quality Score Accuracy
10
5
0
−5
−10
Context Covariate (3 base suffix)
log10(Observations)
7.5
8.0
8.5
9.0
Recalibration
AFTER
BEFORE


Base Substitution
Base Insertion
Base Deletion
No. of Observations (area normalized)
1.00
0.75
0.50
0.25
0.00
10
20
30
40
50
QualityScore Covariate
Recalibration
AFTER
BEPHORE

Base Substitution
Base Insertion
Base Deletion
Mean Quality Score
40
30
20
10
0
0
25
50
75
Cycle Covariate
Recalibration
AFTER
BEFORE
log10(Observations)
7.2
7.6
8.0
Mean Quality Score
45
40
35
30
25
20
Context Covariate (3 base suffix)
log10(Observations)
7.5
8.0
8.5
9.0
Recalibration
AFTER
BEFORE

Overall error rates by event type

ReadGroup	HWI−D00422:152:2	HWI−D00422:152:2	HWI−D00422:152:2	HWI−D00422:152:3	HWI−D00422:152:3	HWI−D00422:152:3
EventType	M	I	D	M	I	D
EmpiricalQuality	26.0	42.0	38.0	26.0	42.0	39.0
EstimatedQReported	29.1	45.0	45.0	31.8	45.0	45.0
Observations	1.37e+10	1.37e+10	1.37e+10	7.81e+09	7.81e+09	7.81e+09
Errors	3.56e+07	9.11e+05	1.95e+06	1.78e+07	5.12e+05	1.09e+06

Error rates by event type and initial quality score

ReadGroup	QualityScore	EventType	EmpiricalQuality	Observations	Errors
HWI−D00422:152:2	14	M	15	328236636	10306292.52
HWI−D00422:152:2	22	M	23	30202275	153795.74
HWI−D00422:152:2	27	M	25	362221372	1128003.14
HWI−D00422:152:2	33	M	27	603587572	1333977.09
HWI−D00422:152:2	37	M	27	12330639957	22710494.17
HWI−D00422:152:2	45	I	42	13654887812	911236.05
HWI−D00422:152:2	45	D	38	13654887812	1948339.17
HWI−D00422:152:3	14	M	14	84368505	3313959.87
HWI−D00422:152:3	22	M	22	8966556	57807.87
HWI−D00422:152:3	27	M	24	98490447	403063.54
HWI−D00422:152:3	33	M	26	181812568	476271.74
HWI−D00422:152:3	37	M	27	7437984836	13596868.24
HWI−D00422:152:3	45	I	42	7811622912	511531.18
HWI−D00422:152:3	45	D	39	7811622912	1090525.42