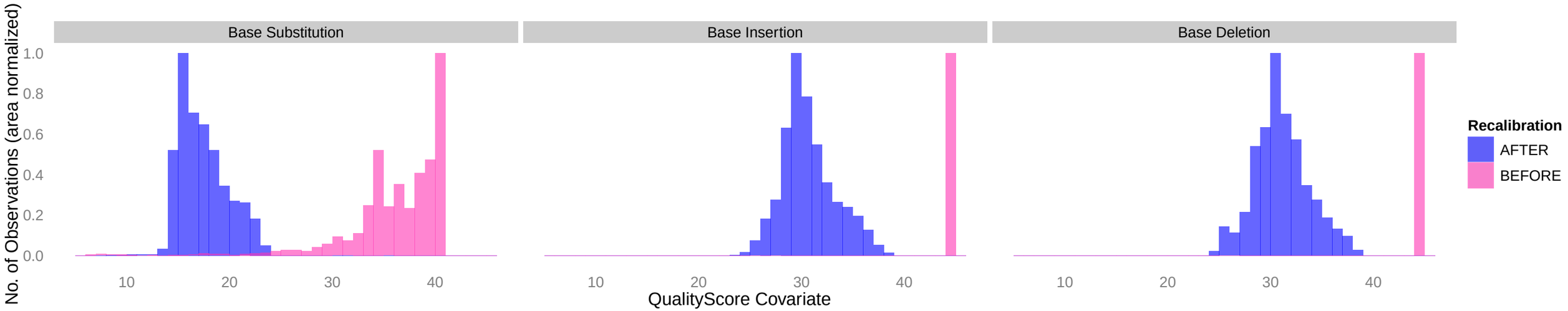
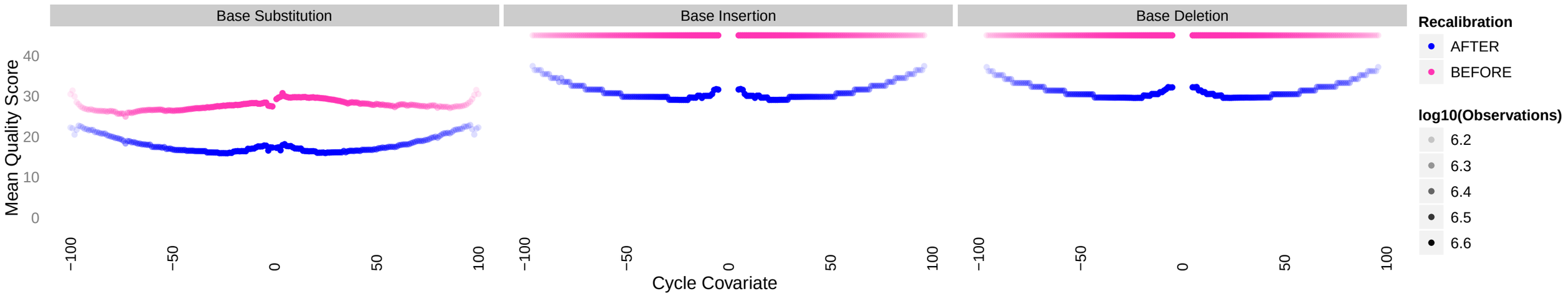
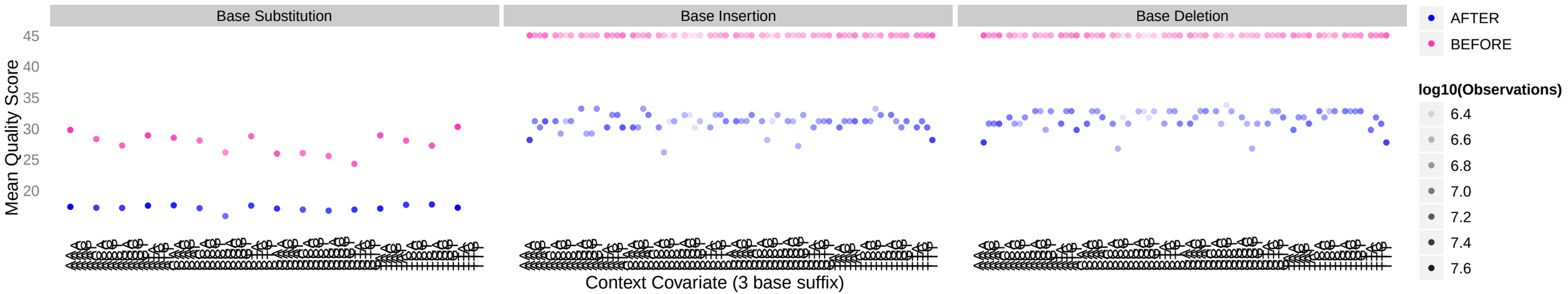
Argument	Value
binary_tag_name	None
covariate	ReadGroup,QualityScore,Context,Cycle
default_platform	None
deletions_default_quality	45
force_platform	None
indels_context_size	3
insertions_default_quality	45
low_quality_tail	2
maximum_cycle_value	500
mismatches_context_size	2
mismatches_default_quality	−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
Reported Quality Score
Recalibration
AFTER
BEFORE
log10(Observations)
5
6
7
8
Quality Score Accuracy
Cycle Covariate
6.2
6.3
6.4
6.5
6.6
Context Covariate (3 base suffix)
6.8
7.0
7.2
7.4
7.6


Base Substitution
Base Insertion
Base Deletion
No. of Observations (area normalized)
1.0
0.8
0.6
0.4
0.2
0.0
10
20
30
40
QualityScore Covariate
Recalibration
AFTER
BEFORE


Base Substitution
Base Insertion
Base Deletion
Mean Quality Score
40
30
20
10
0
−100
−50
0
50
100
Cycle Covariate
Recalibration
AFTER
BEFORE
log10(Observations)
6.2
6.3
6.4
6.5
6.6


Base Substitution
Base Insertion
Base Deletion
Mean Quality Score
45
40
35
30
25
20
Context Covariate (3 base suffix)
Recalibration
AFTER
BEFORE
log10(Observations)
6.4
6.6
6.8
7.0
7.2
7.4
7.6

Overall error rates by event type

ReadGroup	Jap_I060320A_interleaved	Jap_I060320A_interleaved	Jap_I060320A_interleaved
EventType	M	I	D
EmpiricalQuality	17.0	30.0	31.0
EstimatedQReported	27.8	45.0	45.0
Observations	5.38e+08	5.38e+08	5.38e+08
Errors	1.04e+07	4.81e+05	4.18e+05

Error rates by event type and initial quality score

ReadGroup	QualityScore	EventType	EmpiricalQuality	Observations	Errors
Jap_I060320A_interleaved	6	M	8	176399	28730.46
Jap_I060320A_interleaved	7	M	10	821508	81250.71
Jap_I060320A_interleaved	8	M	10	1062172	107447.70
Jap_I060320A_interleaved	9	M	11	709393	61522.78
Jap_I060320A_interleaved	10	M	10	836343	75273.35
Jap_I060320A_interleaved	11	M	12	363123	20981.92
Jap_I060320A_interleaved	12	M	15	177080	5231.25
Jap_I060320A_interleaved	13	M	17	473998	10252.90
Jap_I060320A_interleaved	14	M	15	227901	6763.37
Jap_I060320A_interleaved	15	M	16	557689	13206.22
Jap_I060320A_interleaved	16	M	15	628061	17818.06
Jap_I060320A_interleaved	17	M	17	690170	14470.02
Jap_I060320A_interleaved	18	M	17	1382047	29217.92
Jap_I060320A_interleaved	19	M	17	1015402	19611.14
Jap_I060320A_interleaved	20	M	19	1074876	14475.73
Jap_I060320A_interleaved	21	M	18	604622	10163.81
Jap_I060320A_interleaved	22	M	18	1158434	17504.09
Jap_I060320A_interleaved	23	M	18	1579437	23699.44
Jap_I060320A_interleaved	24	M	18	2078665	31330.71
Jap_I060320A_interleaved	25	M	19	2931527	39243.29
Jap_I060320A_interleaved	26	M	19	3908761	54641.11
Jap_I060320A_interleaved	27	M	18	3704141	52764.80
Jap_I060320A_interleaved	28	M	19	3077582	42432.54
Jap_I060320A_interleaved	29	M	19	5628193	76145.10
Jap_I060320A_interleaved	30	M	19	7651013	102490.51
Jap_I060320A_interleaved	31	M	18	12332948	186391.71
Jap_I060320A_interleaved	32	M	19	9768591	131195.47
Jap_I060320A_interleaved	33	M	18	14542778	217861.65
Jap_I060320A_interleaved	34	M	18	32817129	501097.02
Jap_I060320A_interleaved	35	M	18	68581843	996036.99
Jap_I060320A_interleaved	36	M	18	31887554	507053.20
Jap_I060320A_interleaved	37	M	18	46674851	705611.85
Jap_I060320A_interleaved	38	M	19	30896118	631550.82
Jap_I060320A_interleaved	39	M	20	53730346	957306.83
Jap_I060320A_interleaved	40	M	21	62423523	1384296.95
Jap_I060320A_interleaved	41	M	22	131858552	3209479.23
Jap_I060320A_interleaved	45	I	30	538032770	481019.25
Jap_I060320A_interleaved	45	D	31	538032770	418321.19