Descriptive Data Evaluation Sheet
for single fly experiment rut_color−04

Experimenter: Björn Brembs
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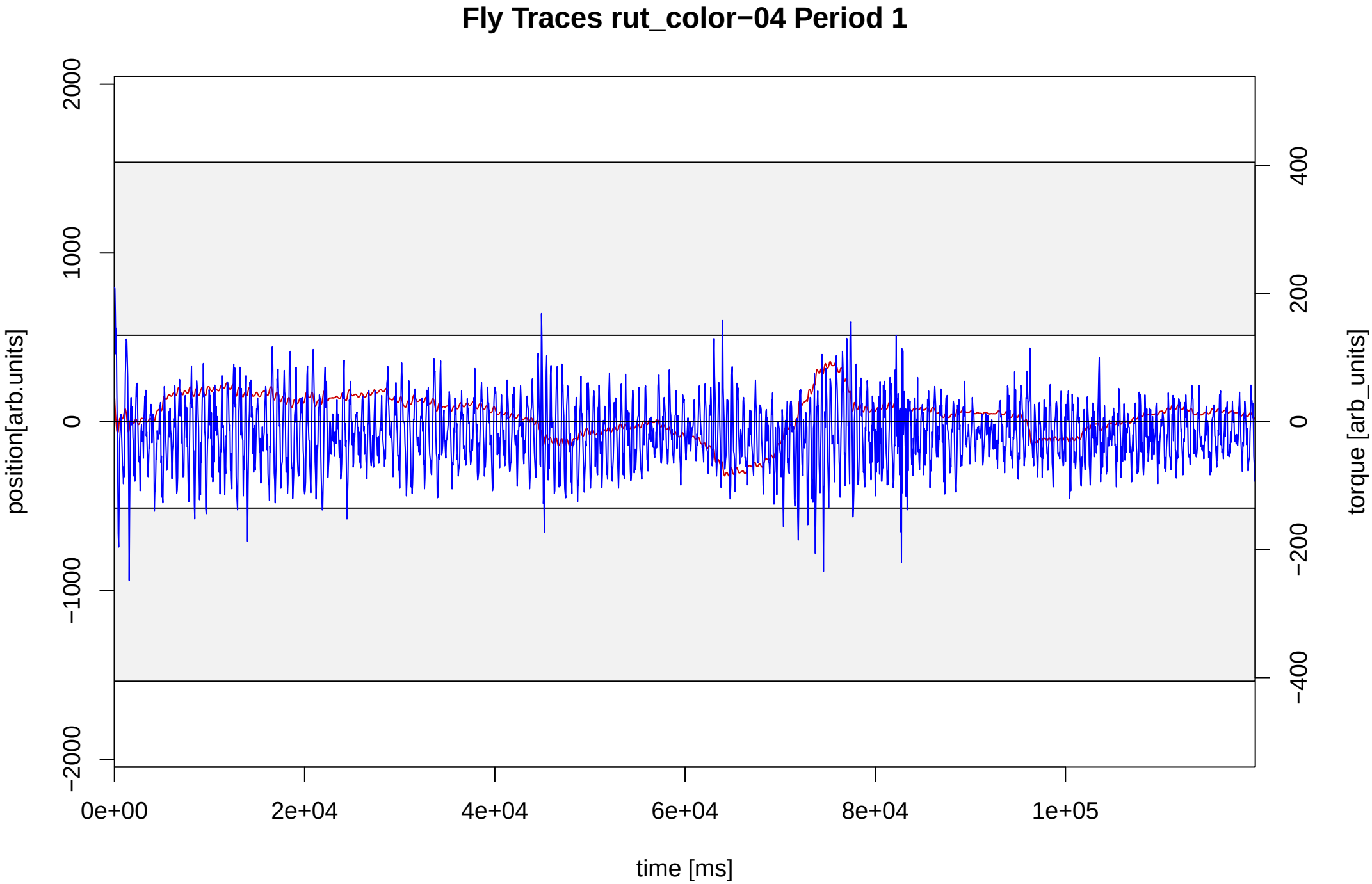
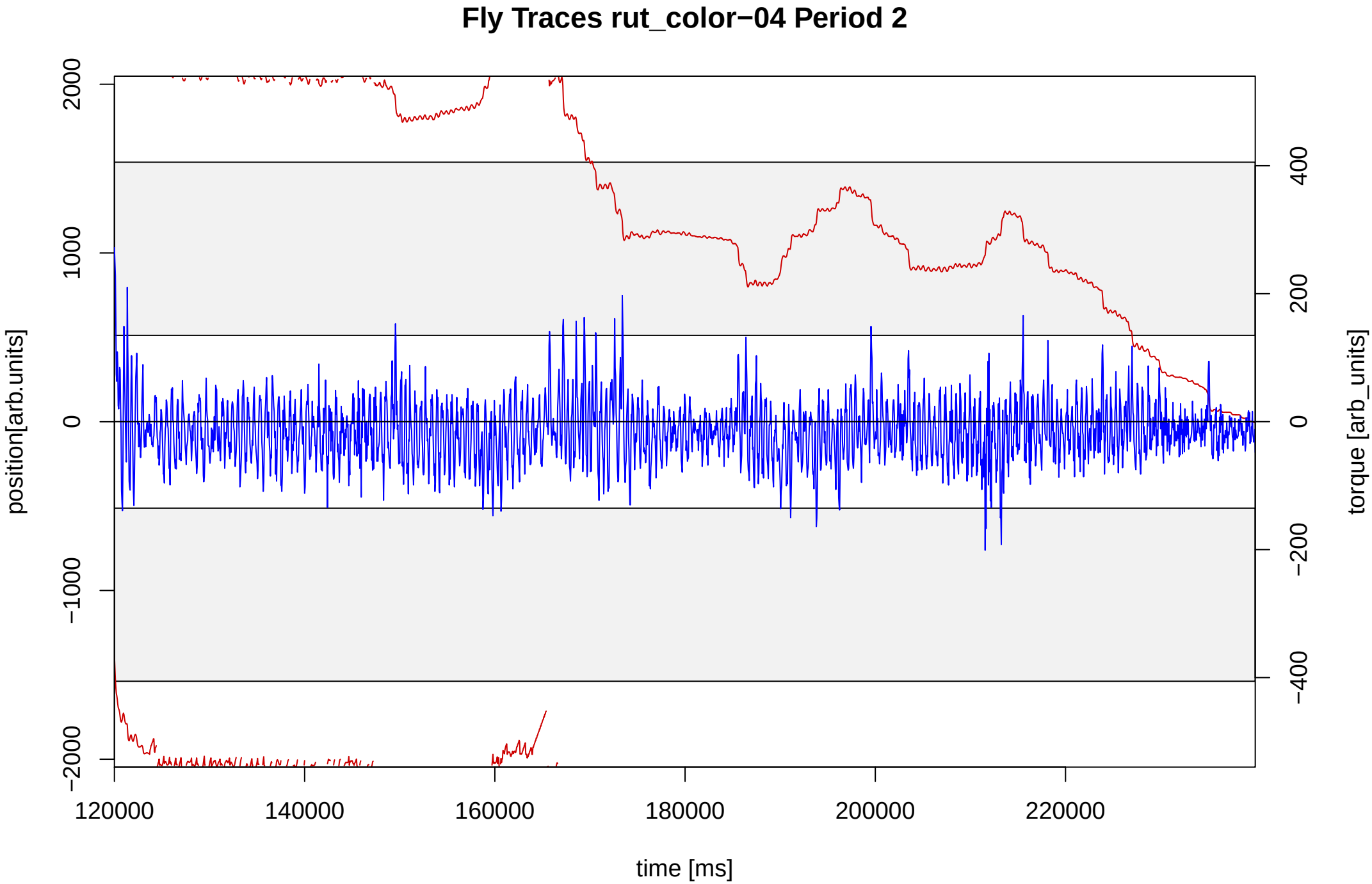
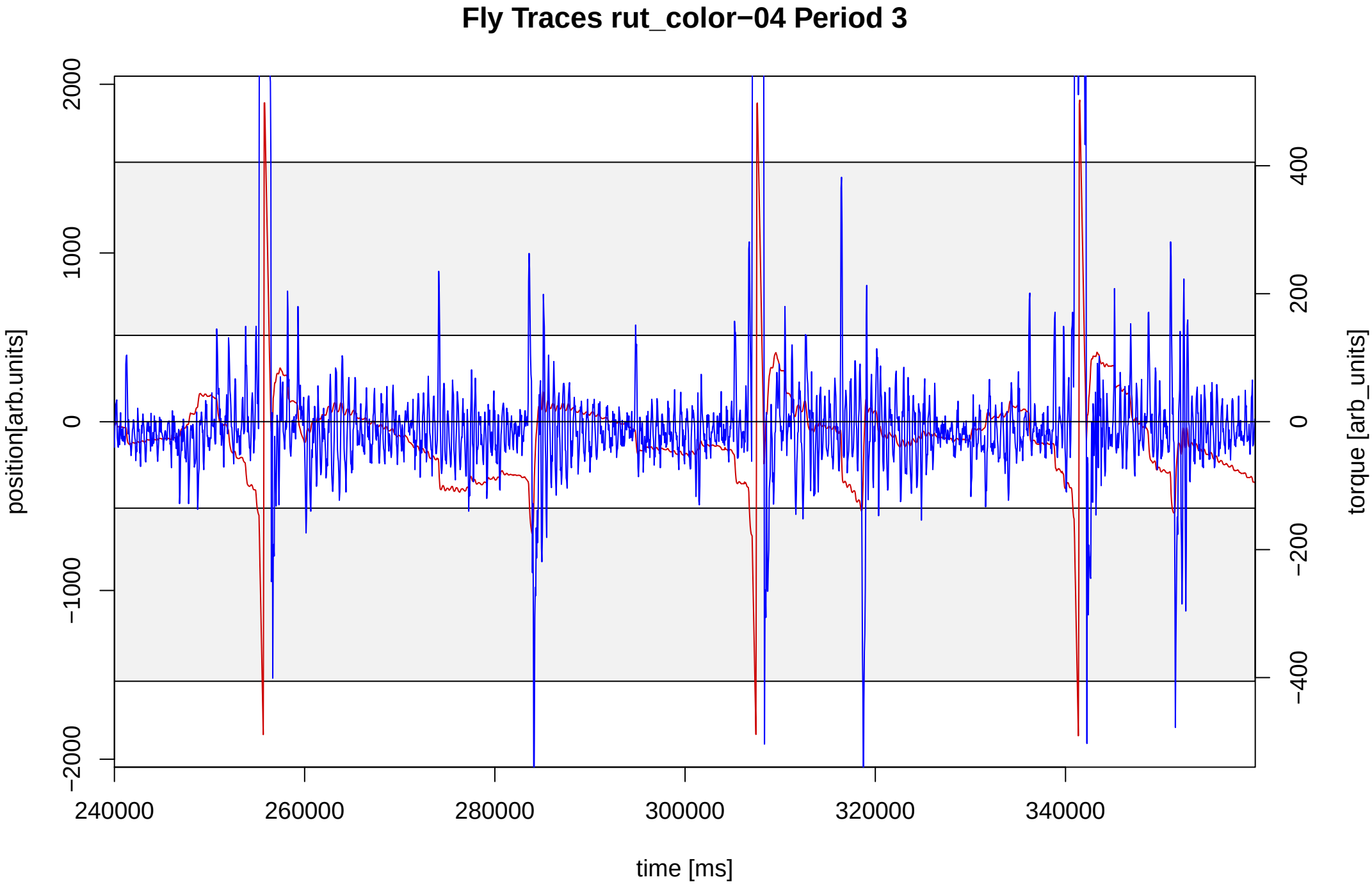
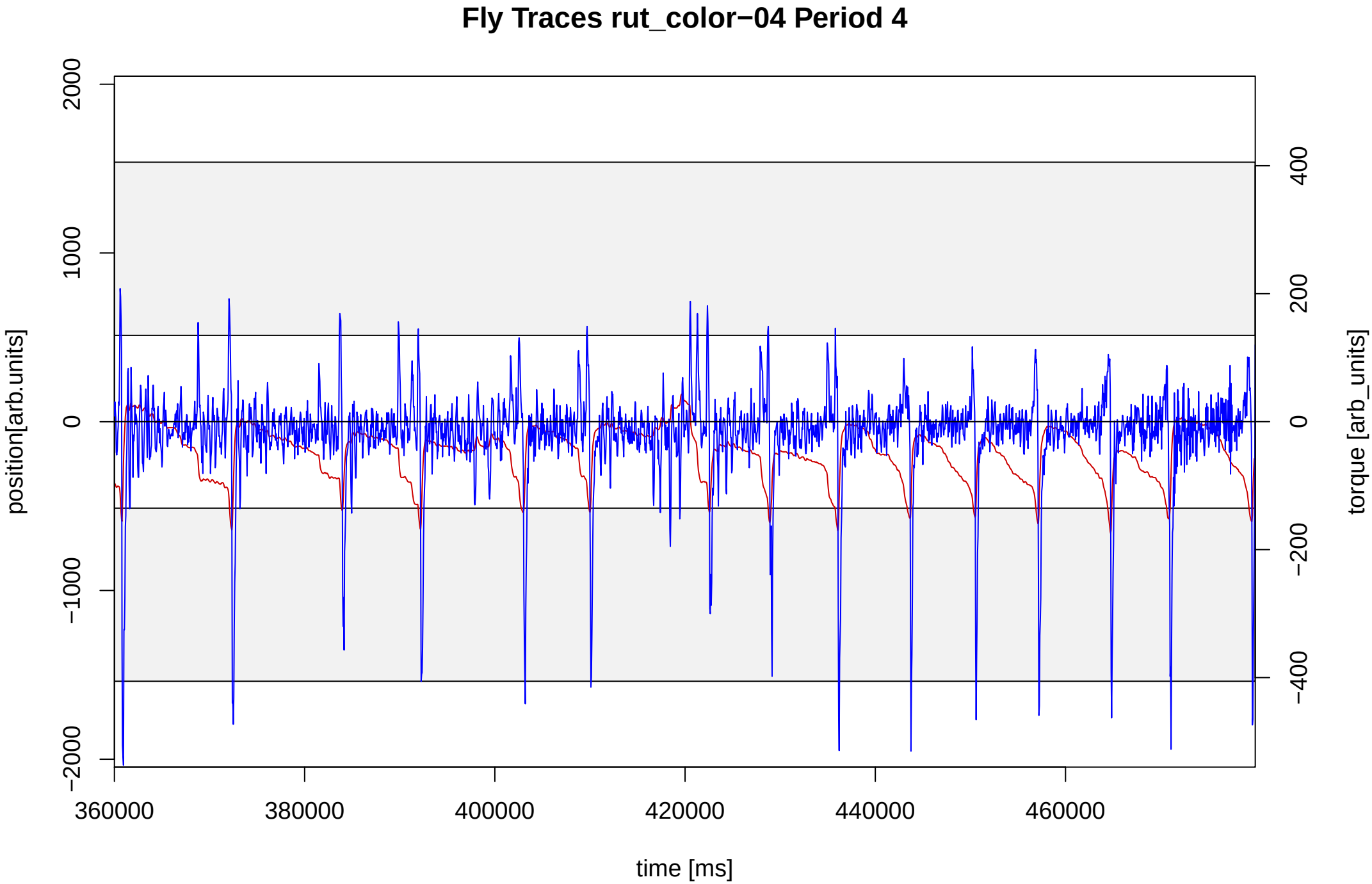
Date and time of the experiment: 2008−03−10T15:15:15
Experiment duration: 1080 s
Experiment description: rutabaga standard closed−loop color learning
Samplingrate: 20 Hz. Arena type: motor . Torquemeter type: Goetz
Fly description: rutabaga2080 mutant . FlybaseID: FBal0032625

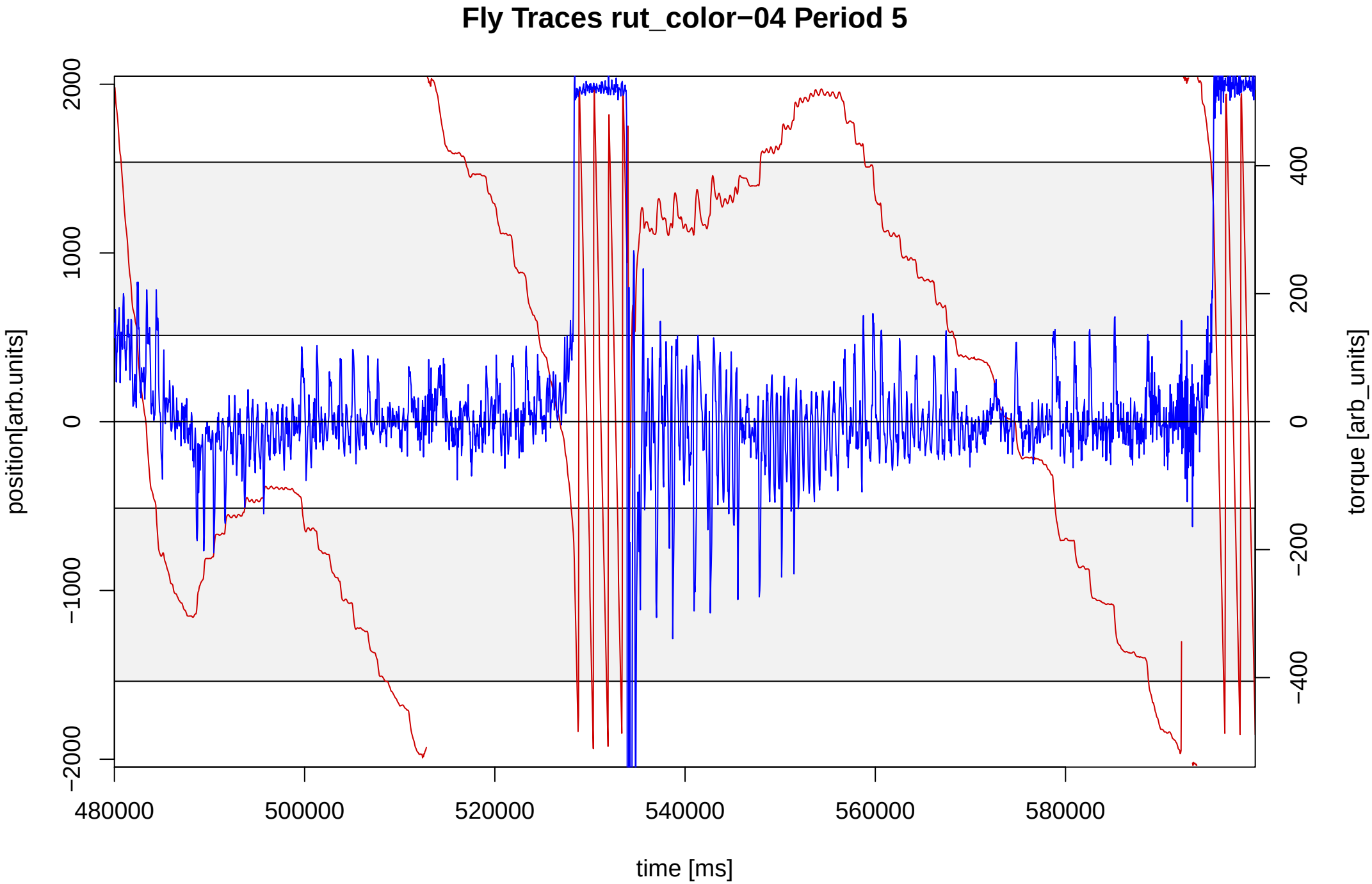
	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	Period 7	Period 8	Period 9
type	color	color	color	color	color	color	color	color	color
duration	120	120	120	120	120	120	120	120	120
outcome	0	0	1	1	0	1	1	0	0
pattern	4	4	4	4	4	4	4	4	4
coup_coeff	11	11	11	11	11	11	11	11	11
contingency	2_4_Q	2_4_Q	2_4_Q	2_4_Q	2_4_Q	2_4_Q	2_4_Q	2_4_Q	2_4_Q

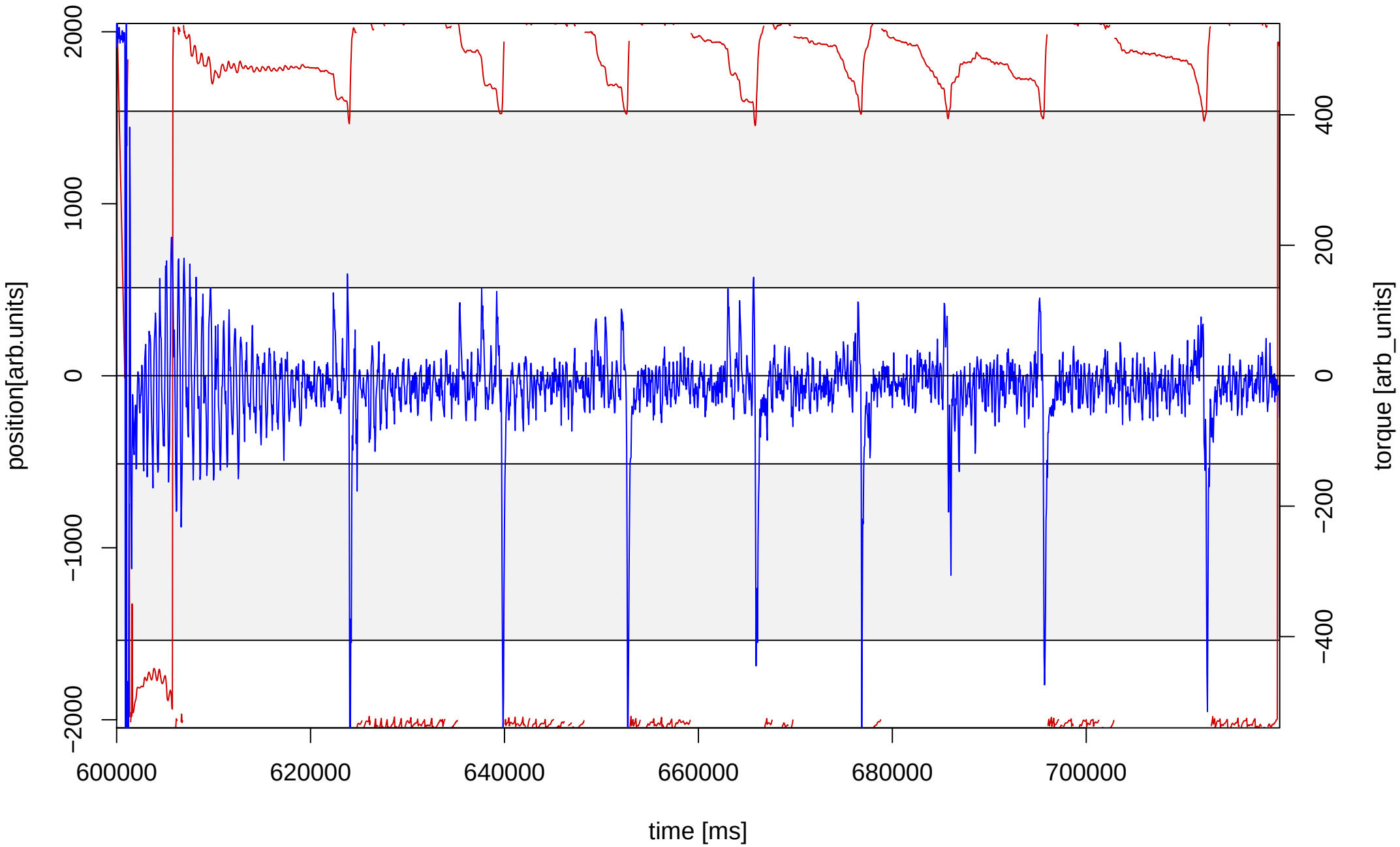

Fly Traces rut_color−04 Period 1
position[arb.units]
2000
1000
0
−1000
−2000
torque [arb_units]
400
200
0
−200
−400
0e+00
2e+04
4e+04
6e+04
8e+04
1e+05
time [ms]

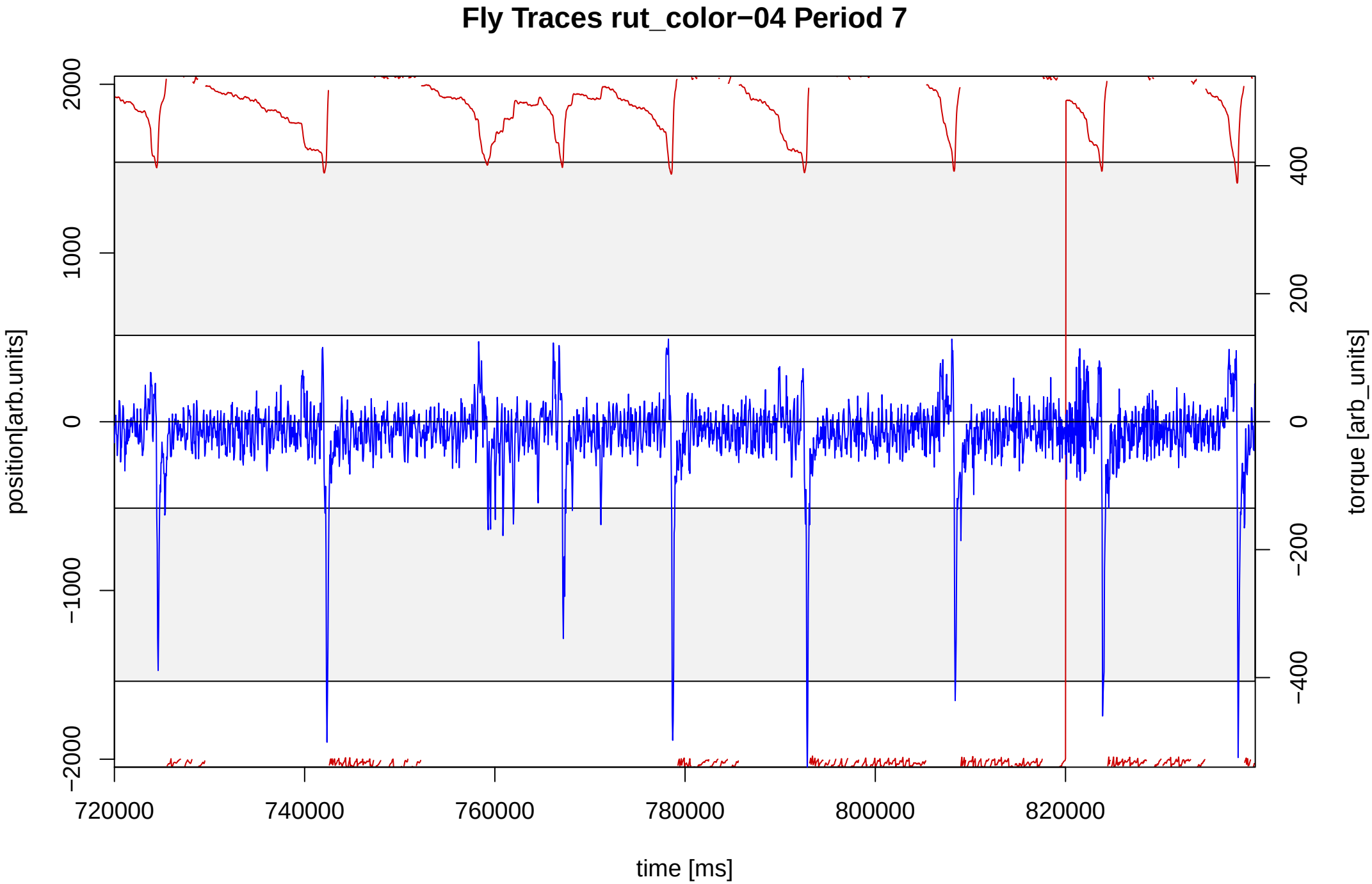

Fly Traces rut_color−04 Period 2
position[arb.units]
2000
1000
0
−1000
−2000
torque [arb_units]
400
200
0
−200
−400
120000
140000
160000
180000
200000
220000
time [ms]

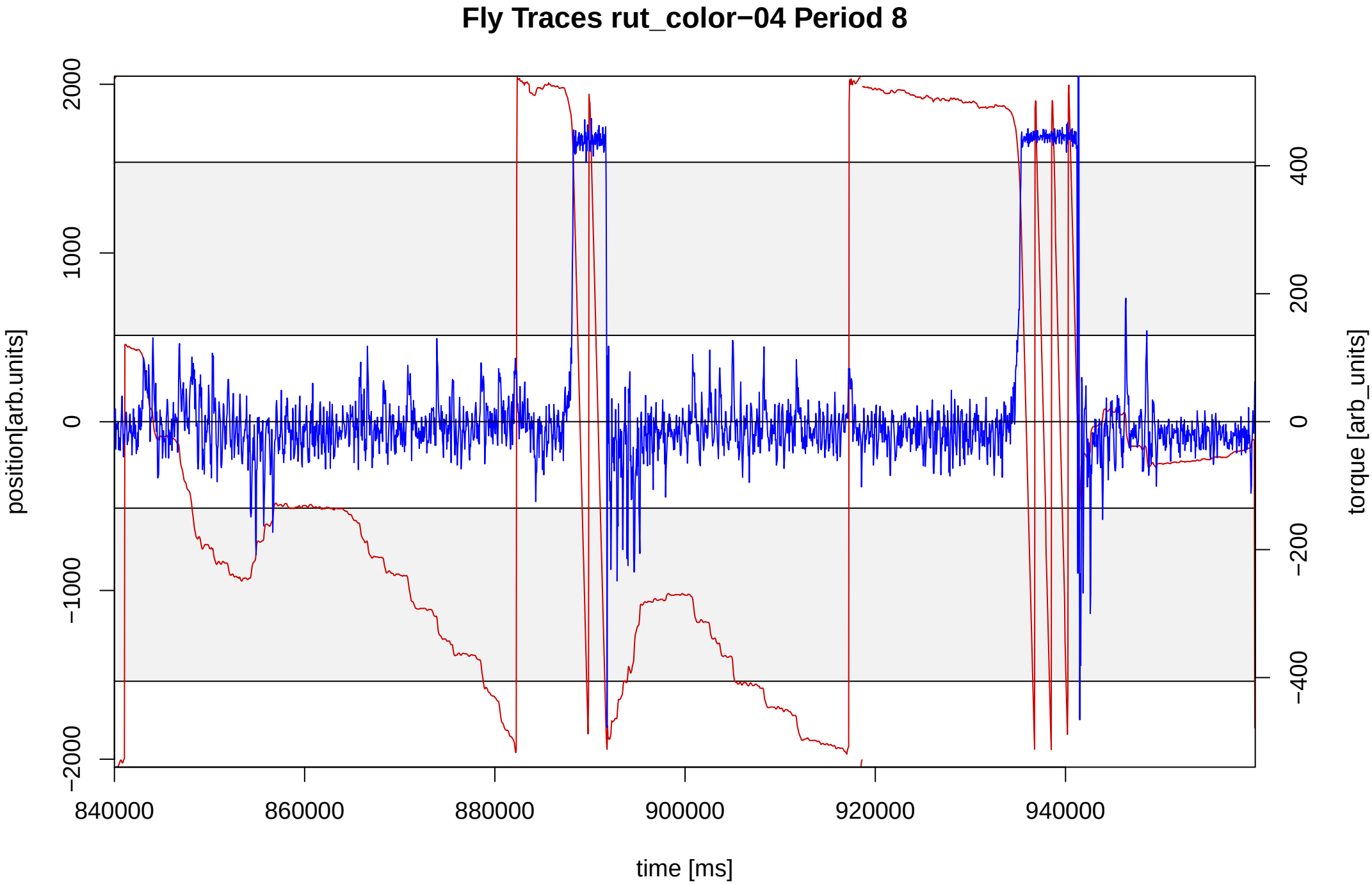

Fly Traces rut_color−04 Period 3
position[arb.units]
torque [arb_units]
time [ms]
2000
1000
0
−1000
−2000
400
200
0
−200
−400
240000
260000
280000
300000
320000
340000

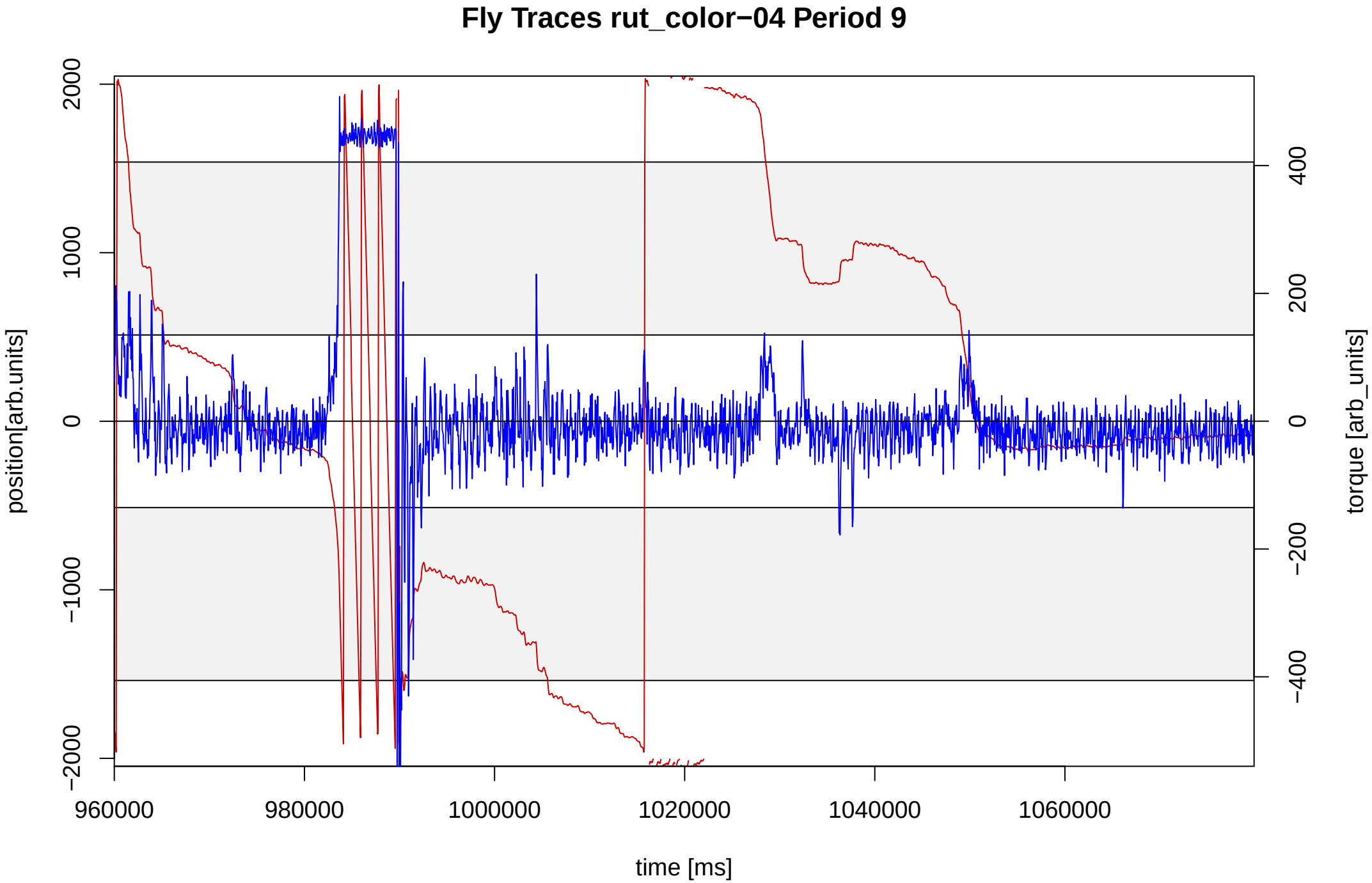

Fly Traces rut_color−04 Period 4
position[arb.units]
2000
1000
0
−1000
−2000
torque [arb_units]
400
200
0
−200
−400
360000
380000
400000
420000
440000
460000
time [ms]

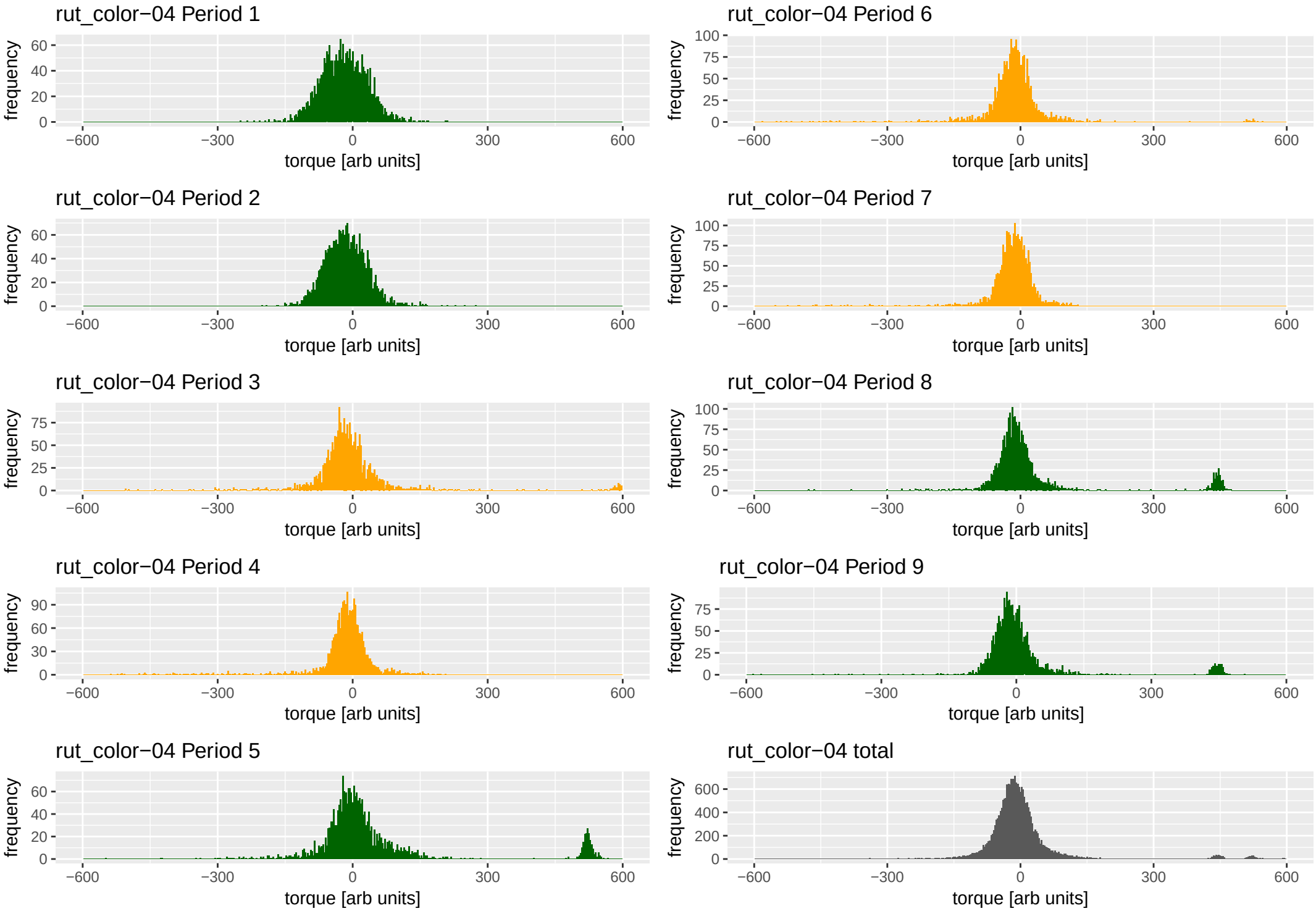

Fly Traces rut_color−04 Period 5
position[arb.units]
2000
1000
0
−1000
−2000
torque [arb_units]
400
200
0
−200
−400
480000
500000
520000
540000
560000
580000
time [ms]

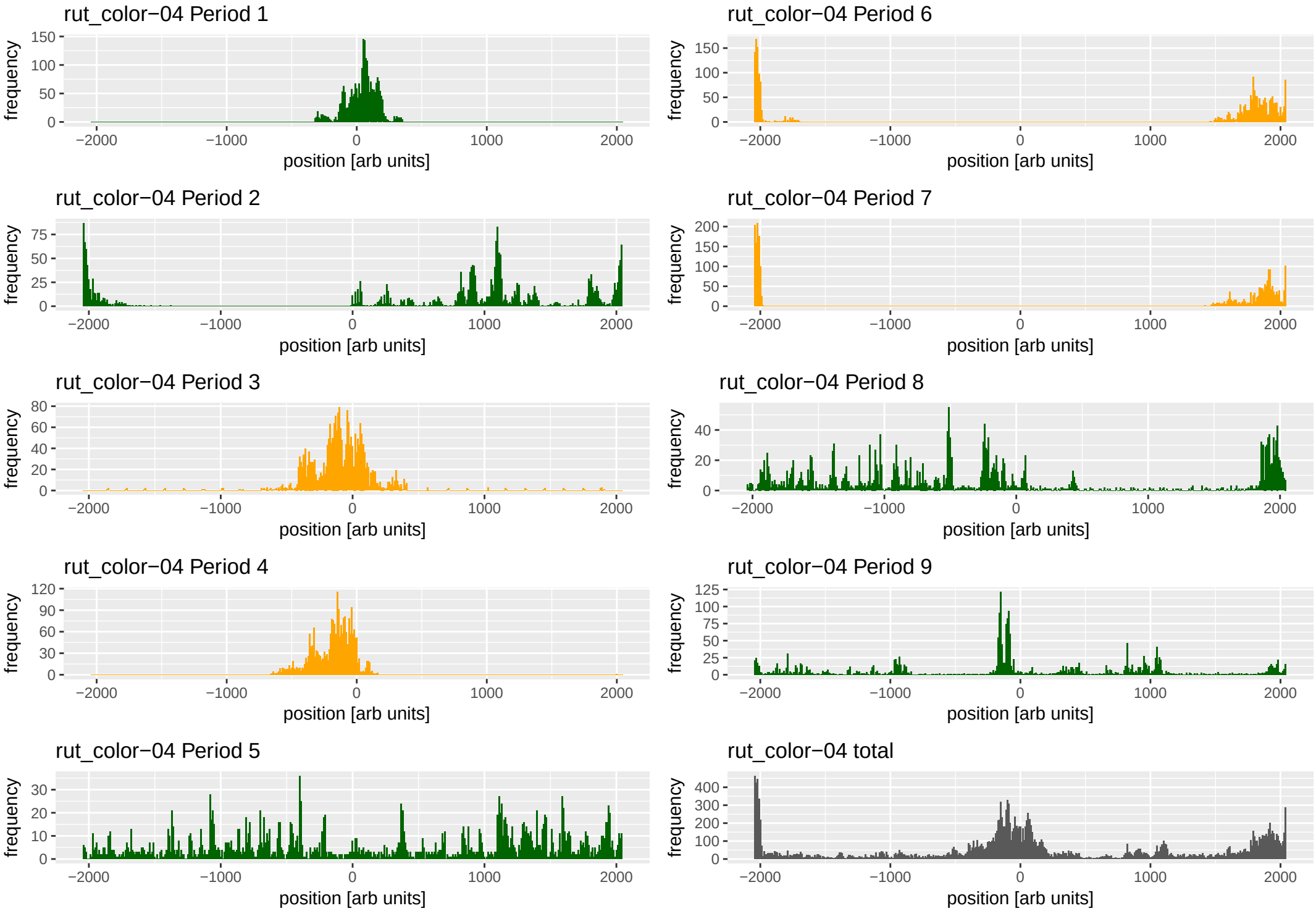

Fly Traces rut_color−04 Period 6
position[arb.units]
torque [arb_units]
time [ms]
2000
1000
0
−1000
−2000
400
200
0
−200
−400
600000
620000
640000
660000
680000
700000

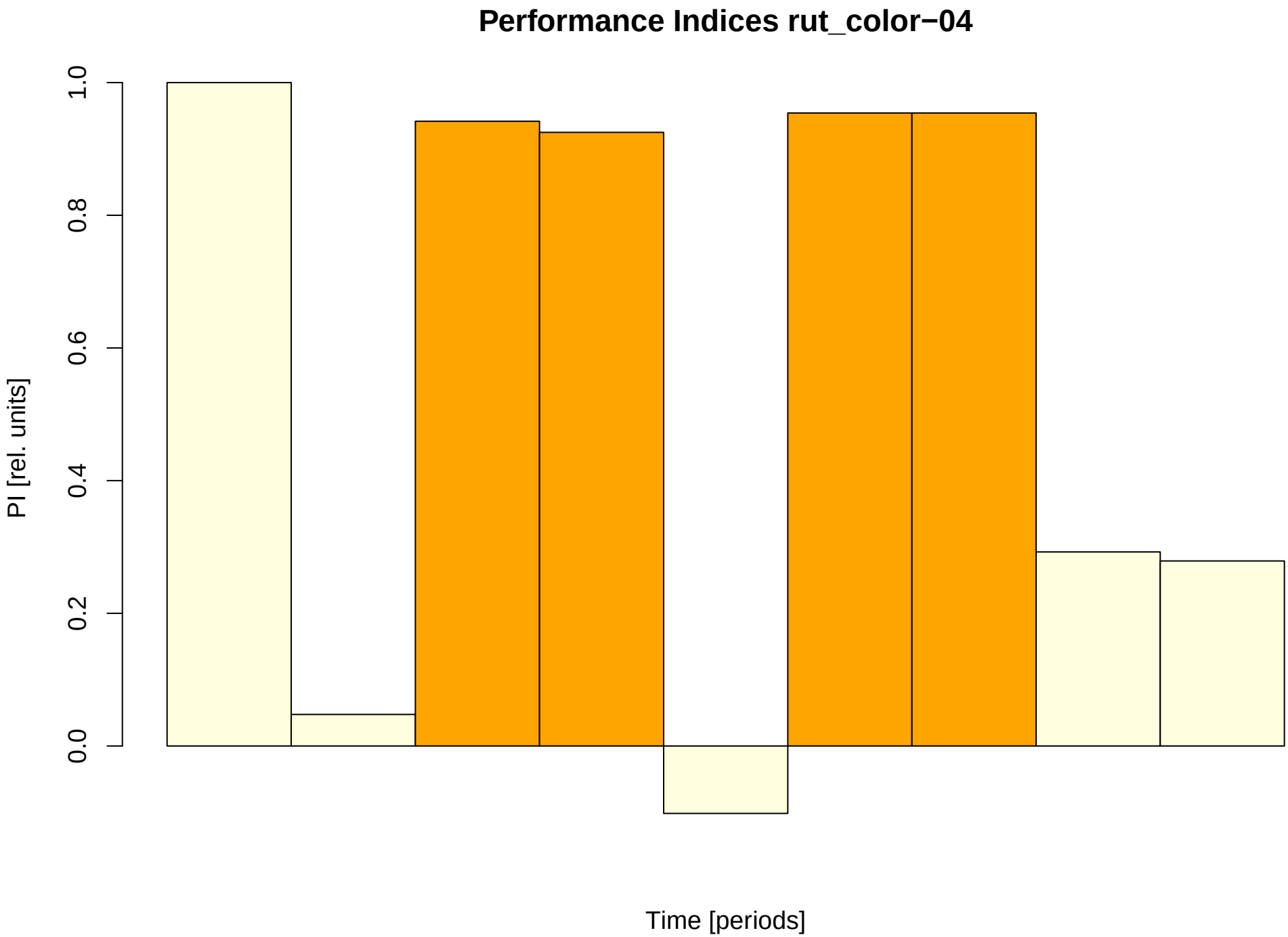

Fly Traces rut_color−04 Period 7
position[arb.units]
torque [arb_units]
time [ms]
2000
1000
0
−1000
−2000
400
200
0
−200
−400
720000
740000
760000
780000
800000
820000

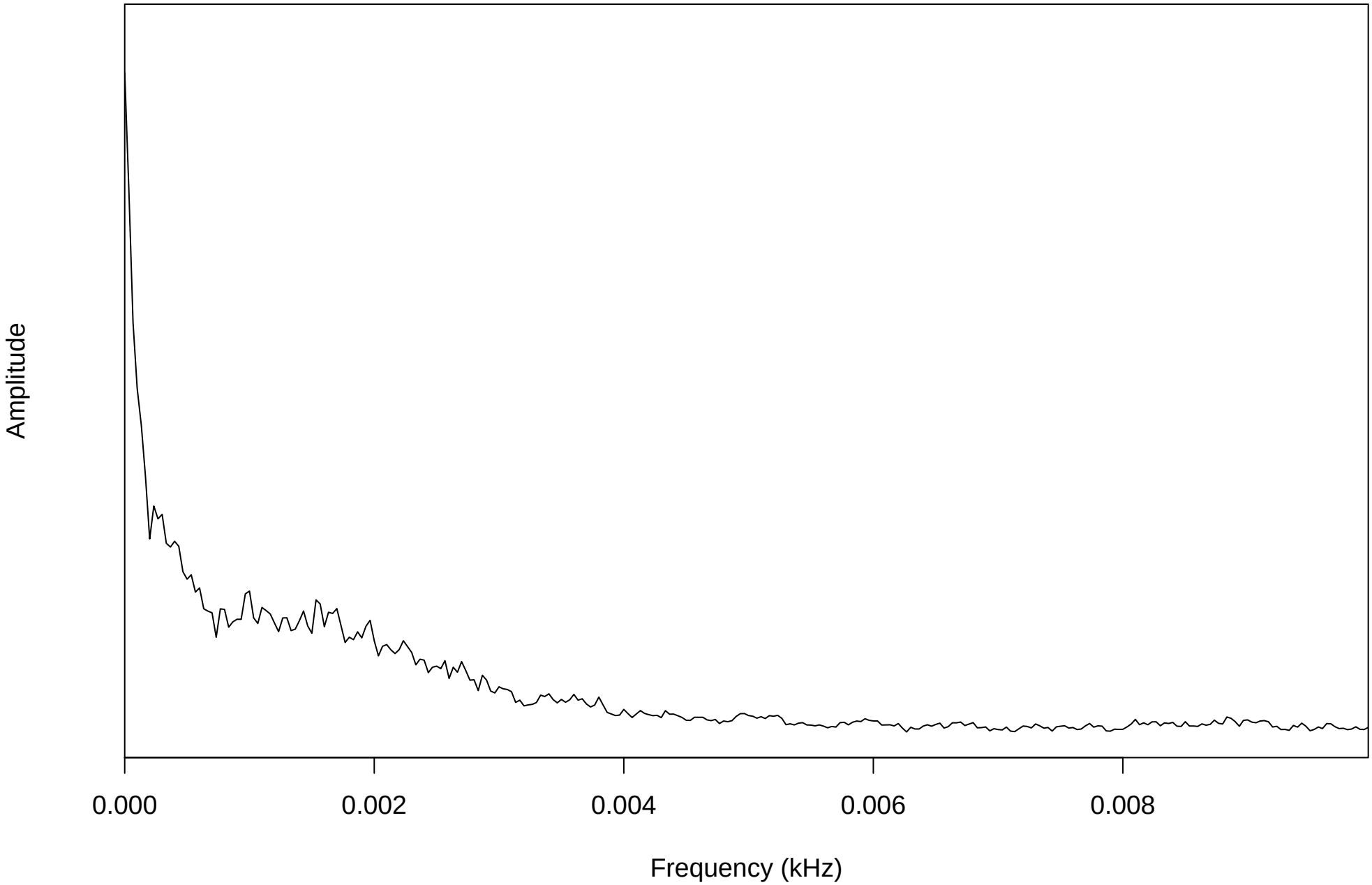

Fly Traces rut_color−04 Period 8
position[arb.units]
2000
1000
0
−1000
−2000
torque [arb_units]
400
200
0
−200
−400
840000
860000
880000
900000
920000
940000
time [ms]

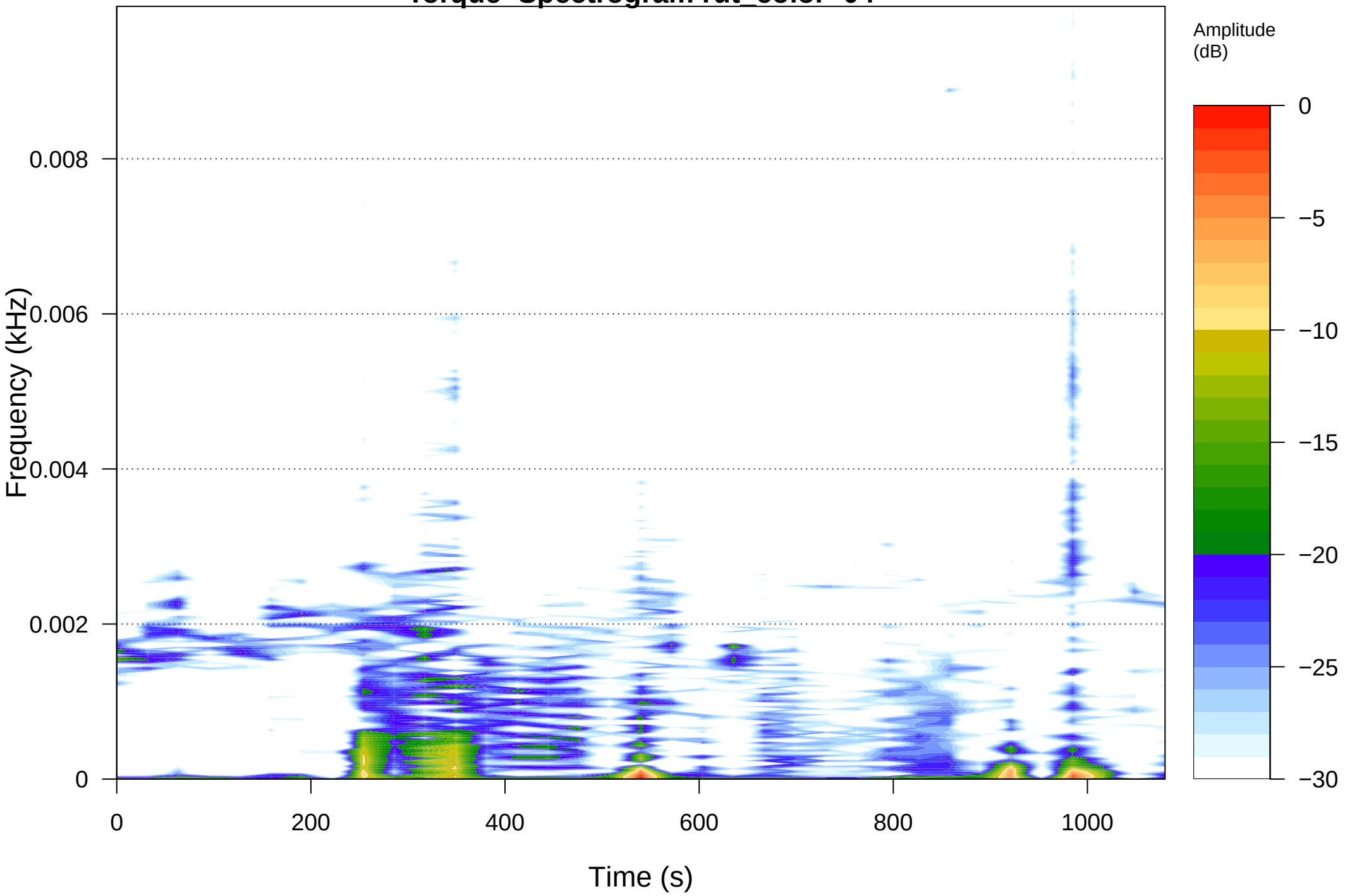

Fly Traces rut_color−04 Period 9
position[arb.units]
2000
1000
0
−1000
−2000
torque [arb_units]
400
200
0
−200
−400
960000
980000
1000000
1020000
1040000
1060000
time [ms]


rut_color−04 Period 1
frequency
torque [arb units]
rut_color−04 Period 6
frequency
torque [arb units]
rut_color−04 Period 2
frequency
torque [arb units]
rut_color−04 Period 7
frequency
torque [arb units]
rut_color−04 Period 3
frequency
torque [arb units]
rut_color−04 Period 8
frequency
torque [arb units]
rut_color−04 Period 4
frequency
torque [arb units]
rut_color−04 Period 9
frequency
torque [arb units]
rut_color−04 Period 5
frequency
torque [arb units]
rut_color−04 total
frequency
torque [arb units]


rut_color−04 Period 1
frequency
150
100
50
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 6
frequency
150
100
50
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 2
frequency
75
50
25
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 7
frequency
200
150
100
50
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 3
frequency
80
60
40
20
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 8
frequency
40
20
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 4
frequency
120
90
60
30
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 9
frequency
125
100
75
50
25
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 Period 5
frequency
30
20
10
0
−2000
−1000
0
1000
2000
position [arb units]
rut_color−04 total
frequency
400
300
200
100
0
−2000
−1000
0
1000
2000
position [arb units]


Performance Indices rut_color−04
PI [rel. units]
0.0
0.2
0.4
0.6
0.8
1.0
Time [periods]


Torque−Powerspectrum rut_color−04
Amplitude
0.000
0.002
0.004
0.006
0.008
Frequency (kHz)


Torque−Spectrogram rut_color−04
Amplitude
(dB)
0
−5
−10
−15
−20
−25
−30
Frequency (kHz)
0.008
0.006
0.004
0.002
0
0
200
400
600
800
1000
Time (s)