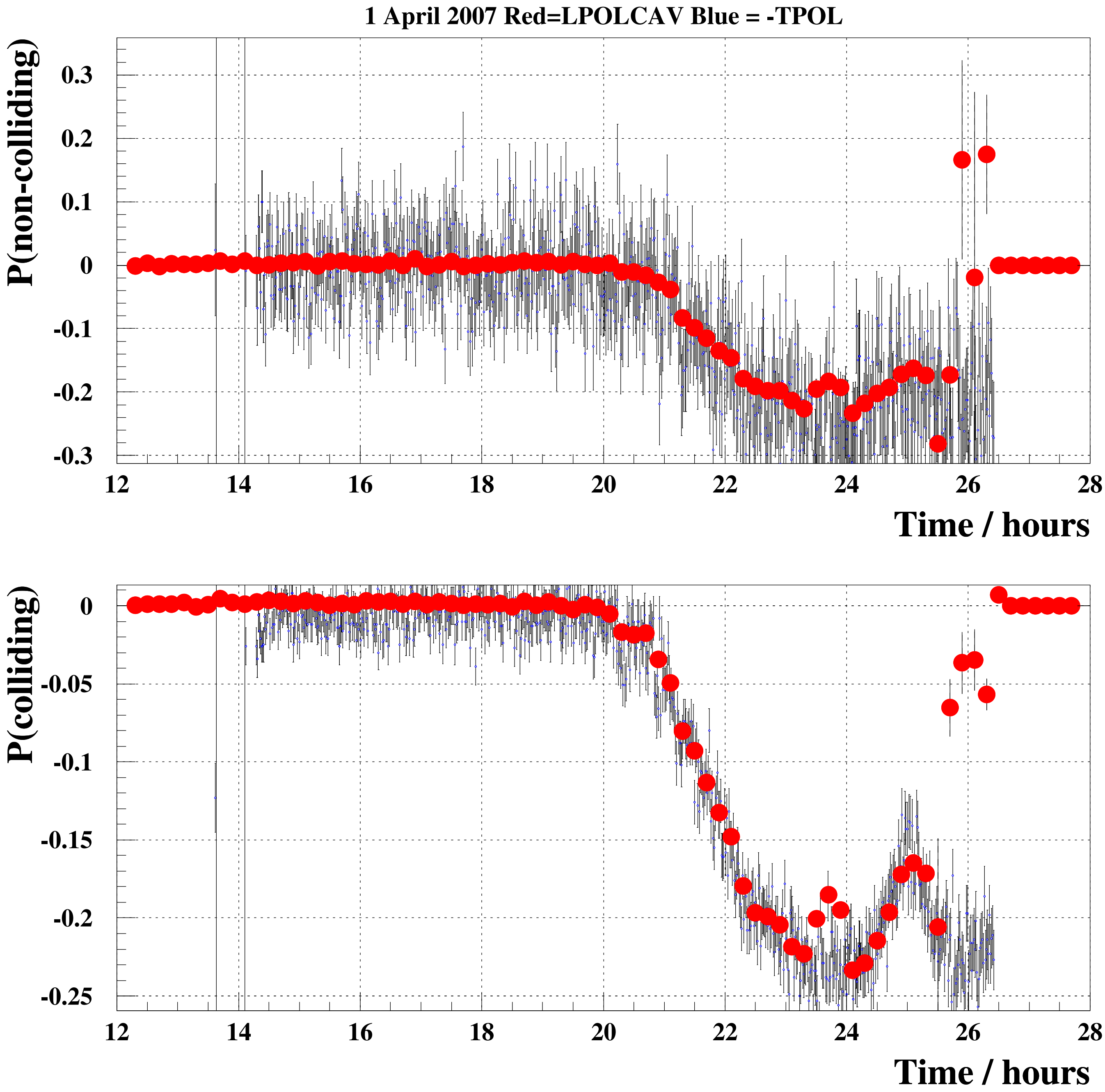
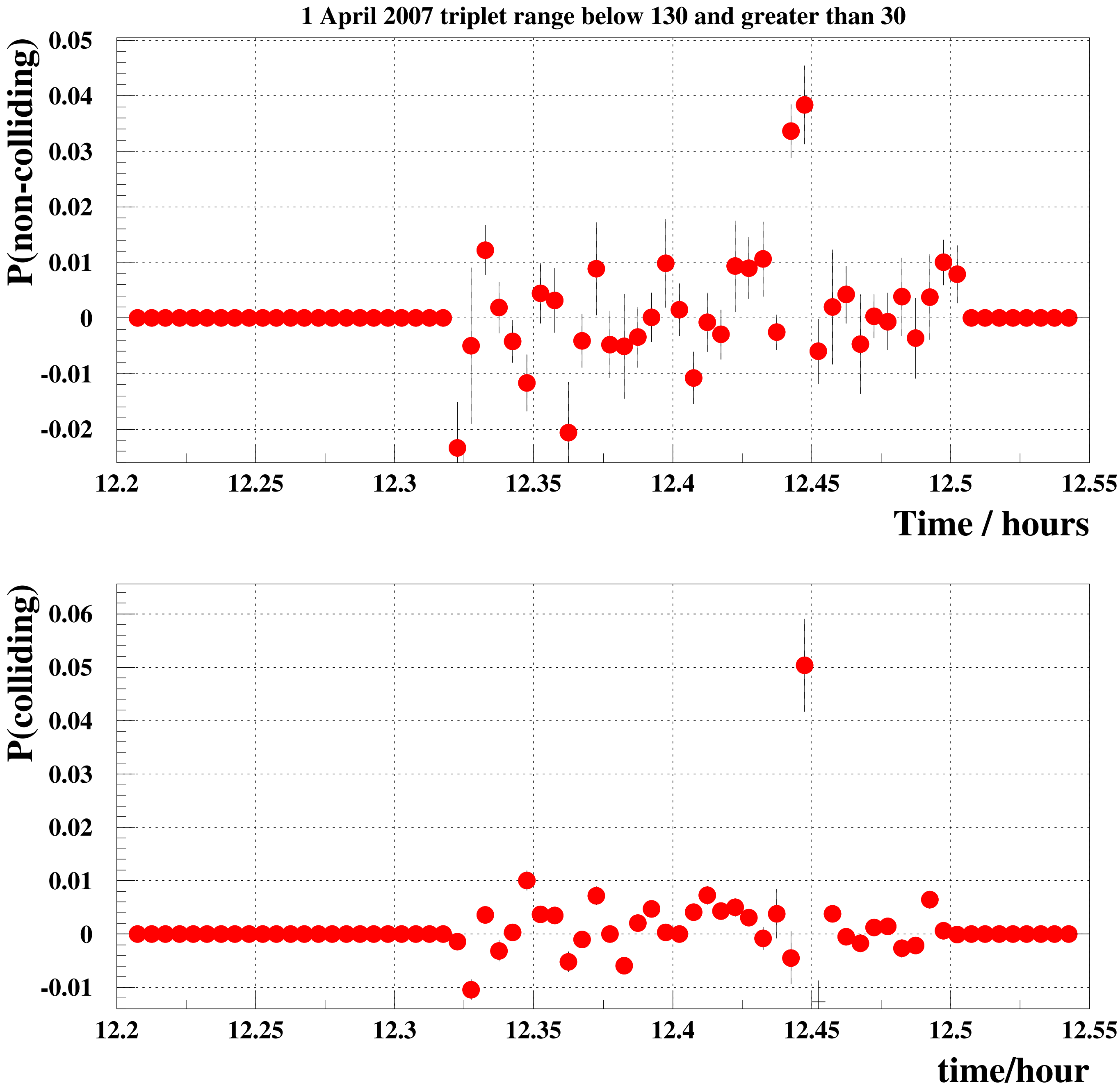
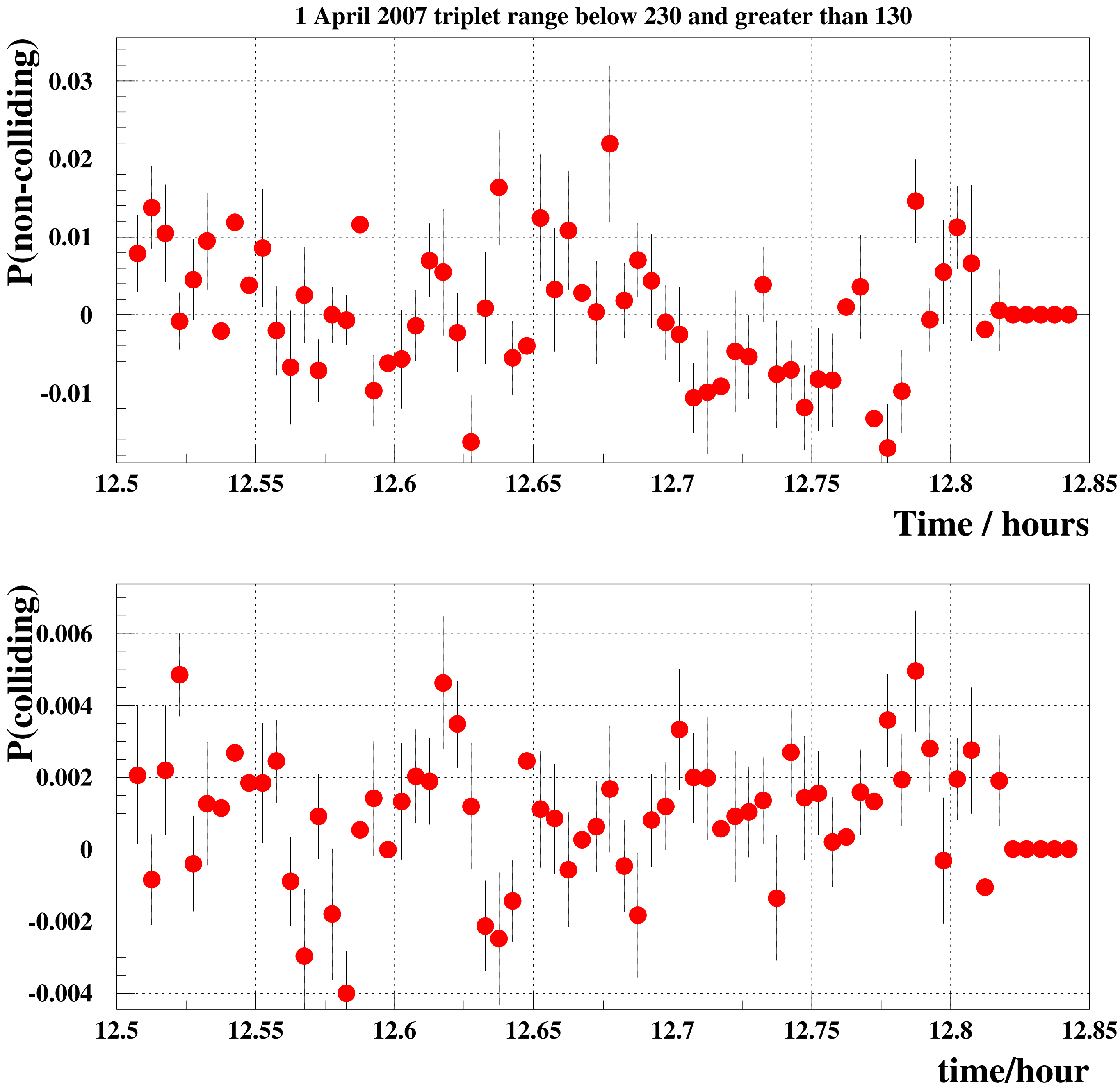
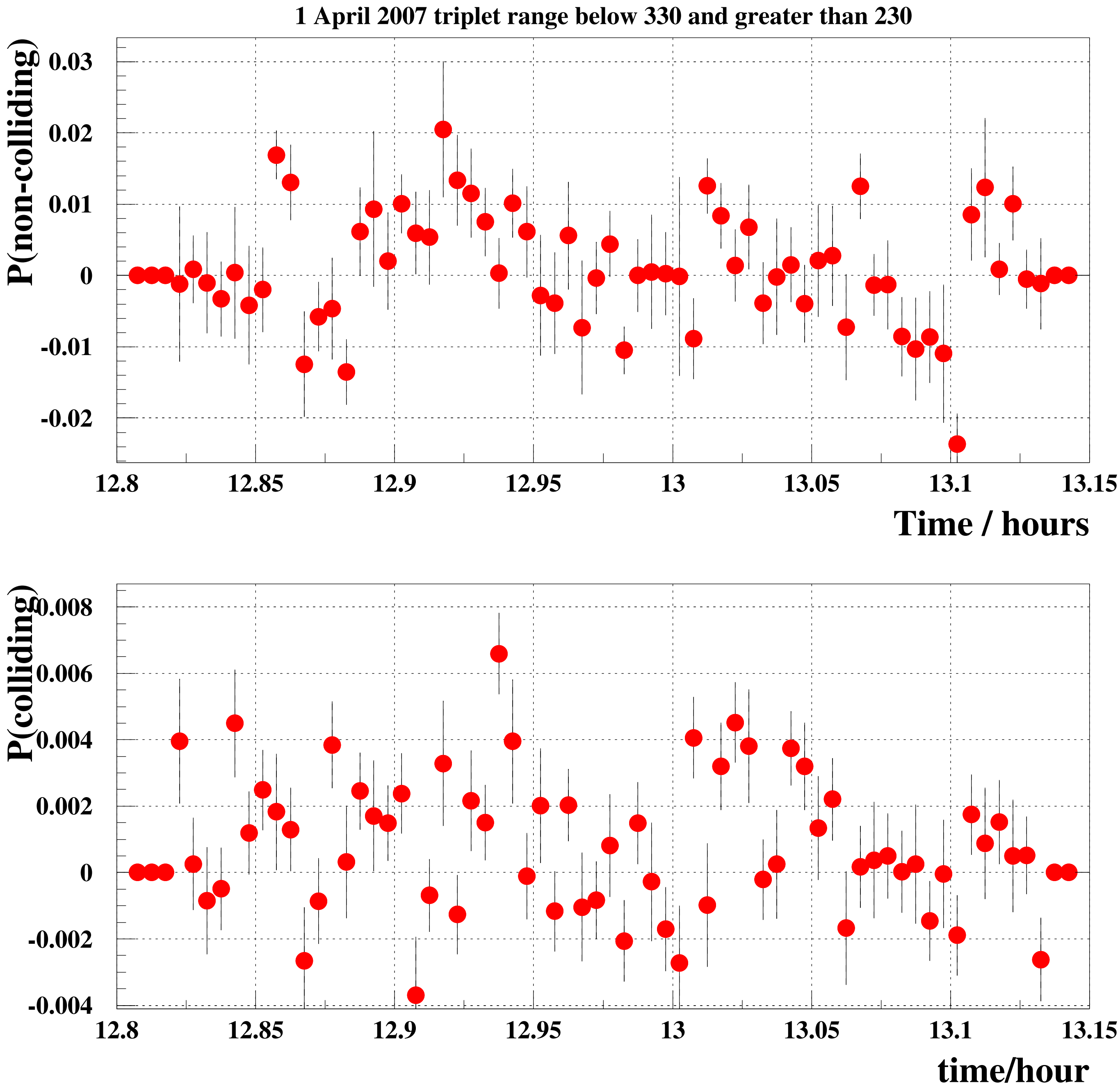
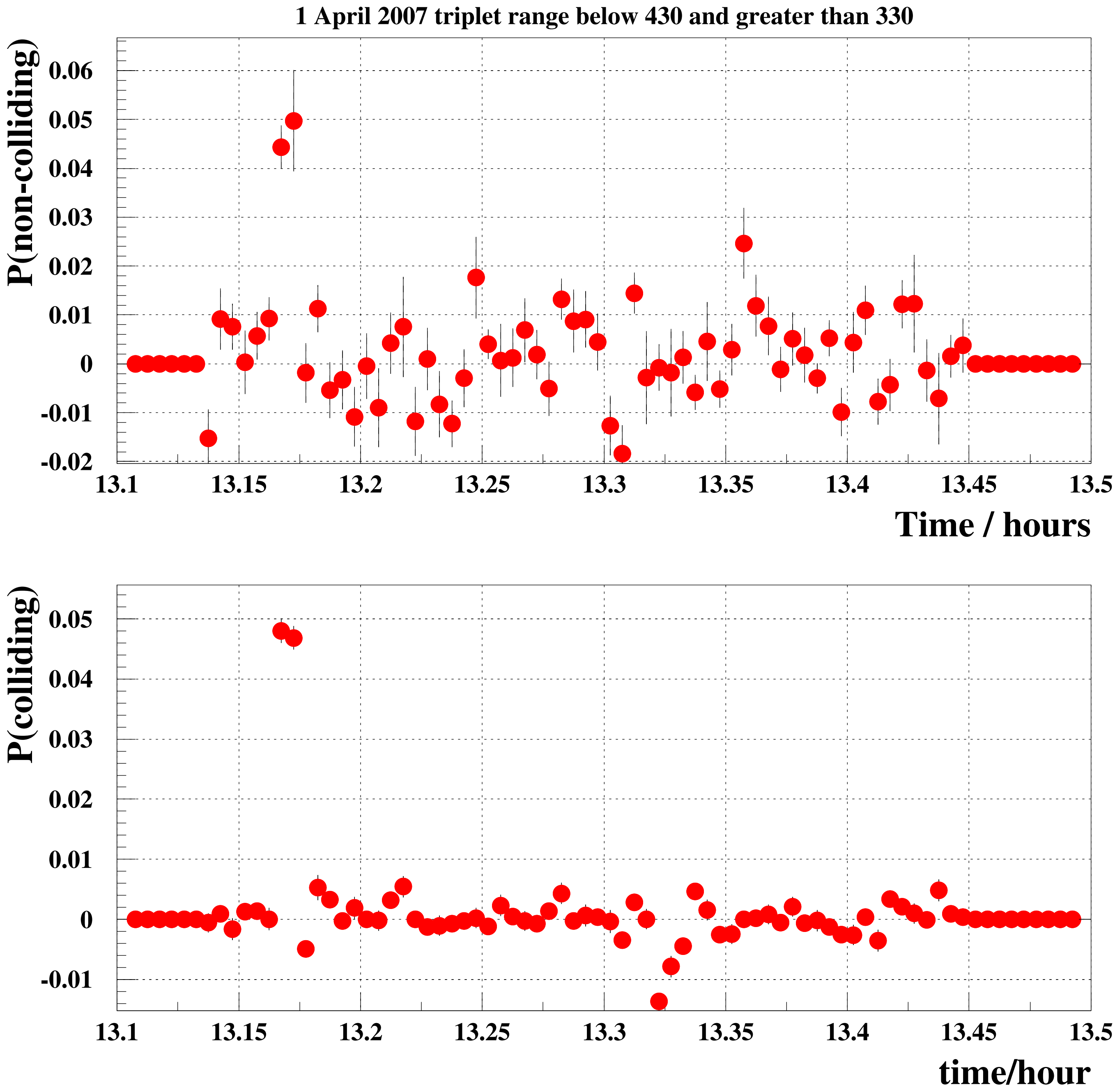

1 April 2007 Red=LPOLCAV Blue = -TPOL
P(non-colliding)
Time / hours
P(colliding)
Time / hours



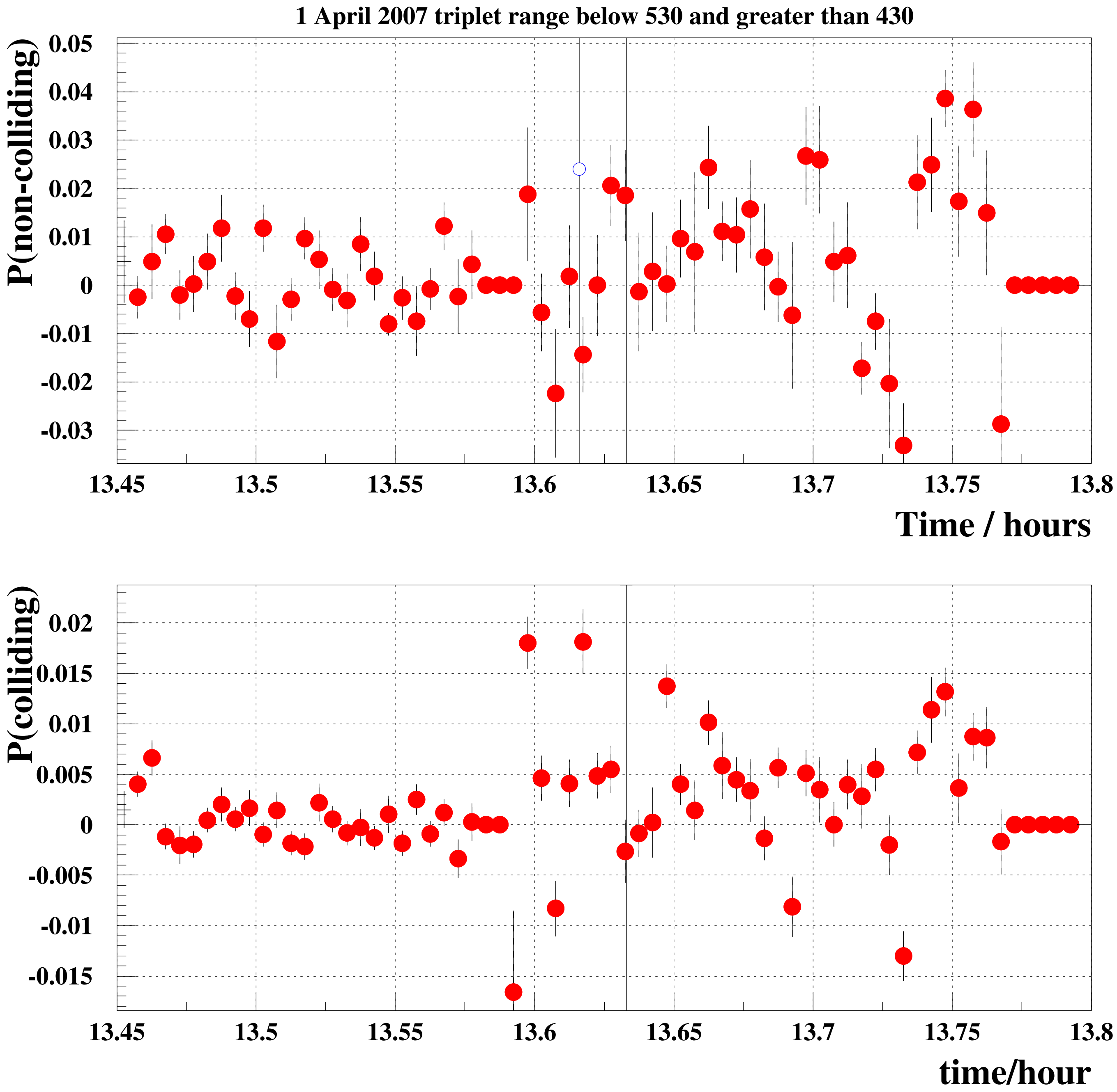
1 April 2007 triplet range below 130 and greater than 30
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
12.2
12.25
12.3
12.35
12.4
12.45
12.5
12.55
Time / hours
P(colliding)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
12.2
12.25
12.3
12.35
12.4
12.45
12.5
12.55
time/hour

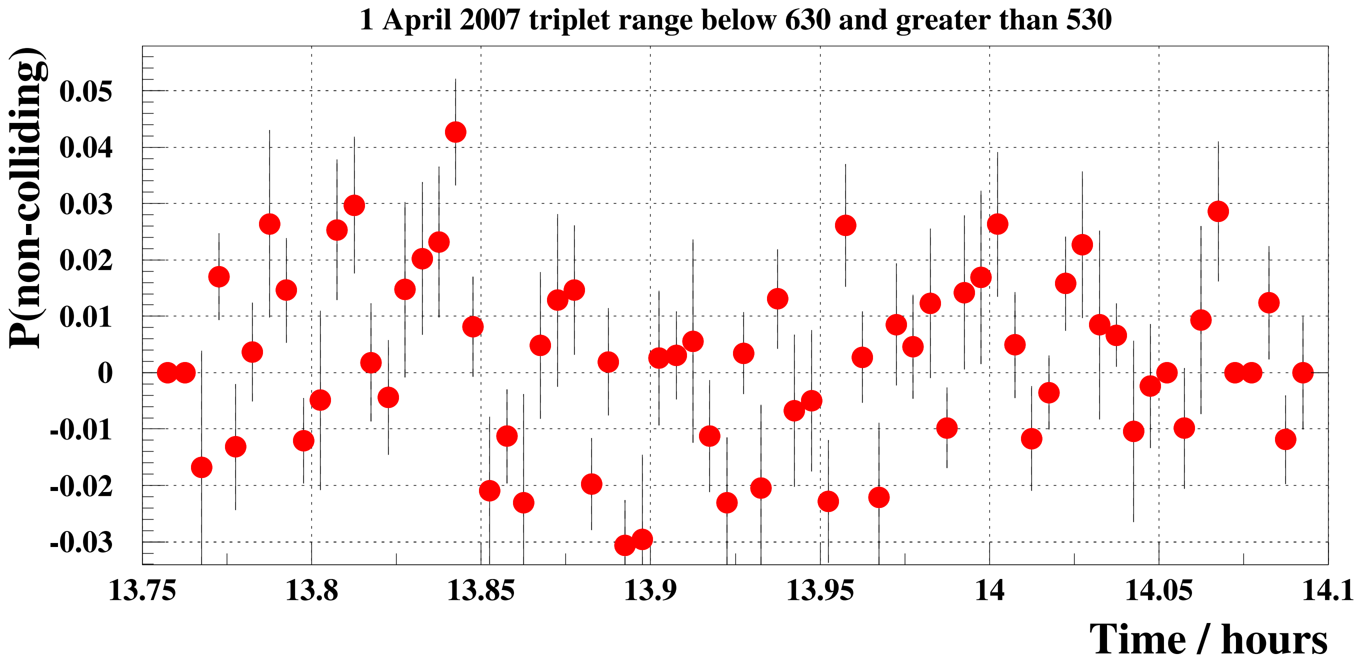

1 April 2007 triplet range below 230 and greater than 130
P(non-colliding)
0.03
0.02
0.01
0
-0.01
12.5
12.55
12.6
12.65
12.7
12.75
12.8
12.85
Time / hours
P(colliding)
0.006
0.004
0.002
0
-0.002
-0.004
12.5
12.55
12.6
12.65
12.7
12.75
12.8
12.85
time/hour

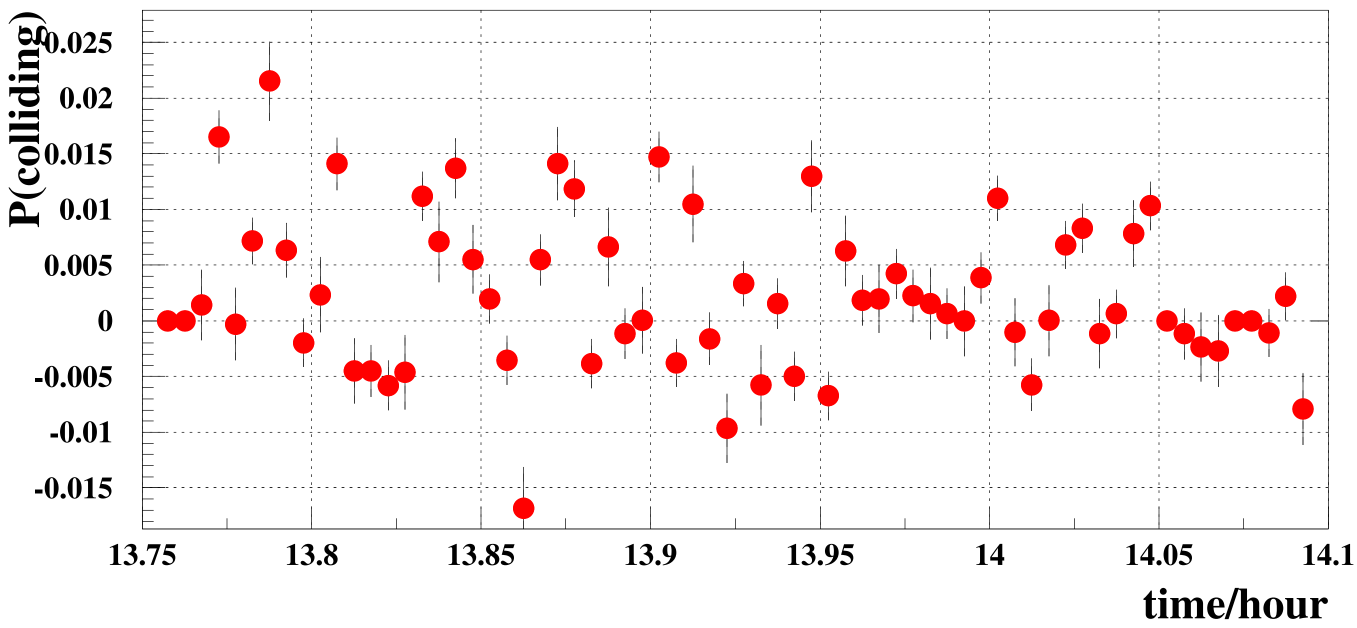

1 April 2007 triplet range below 330 and greater than 230
P(non-colliding)
0.03
0.02
0.01
0
-0.01
-0.02
12.8
12.85
12.9
12.95
13
13.05
13.1
13.15
Time / hours
P(colliding)
0.008
0.006
0.004
0.002
0
-0.002
-0.004
12.8
12.85
12.9
12.95
13
13.05
13.1
13.15
time/hour

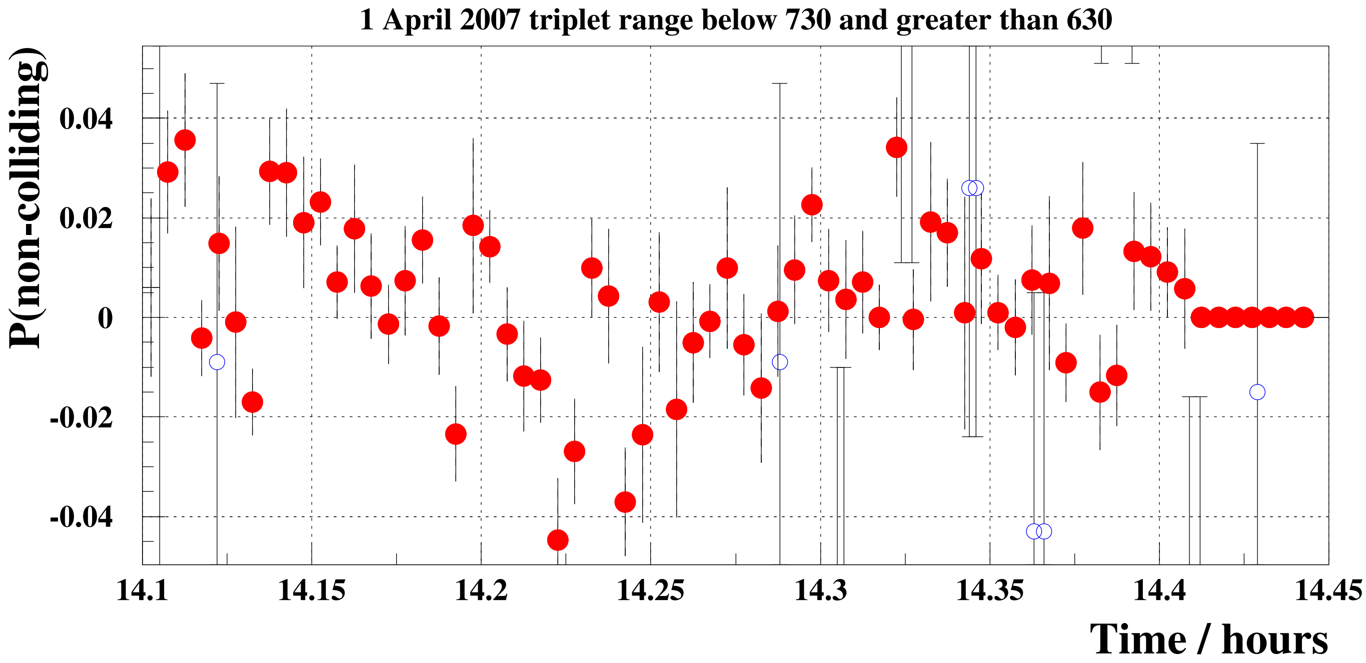


1 April 2007 triplet range below 430 and greater than 330
P(non-colliding)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
13.1
13.15
13.2
13.25
13.3
13.35
13.4
13.45
13.5
Time / hours
P(colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
13.1
13.15
13.2
13.25
13.3
13.35
13.4
13.45
13.5
time/hour

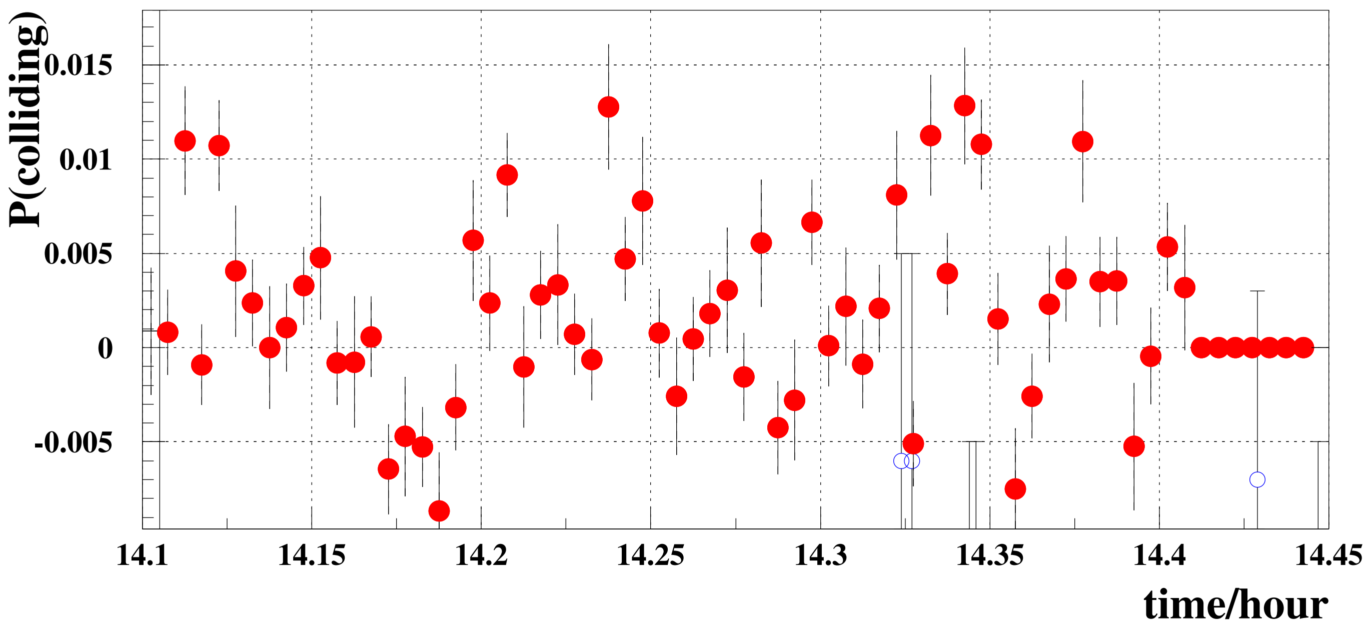

1 April 2007 triplet range below 530 and greater than 430
P(non-colliding)
Time / hours
P(colliding)
time/hour


1 April 2007 triplet range below 630 and greater than 530
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
13.75
13.8
13.85
13.9
13.95
14
14.05
14.1
Time / hours

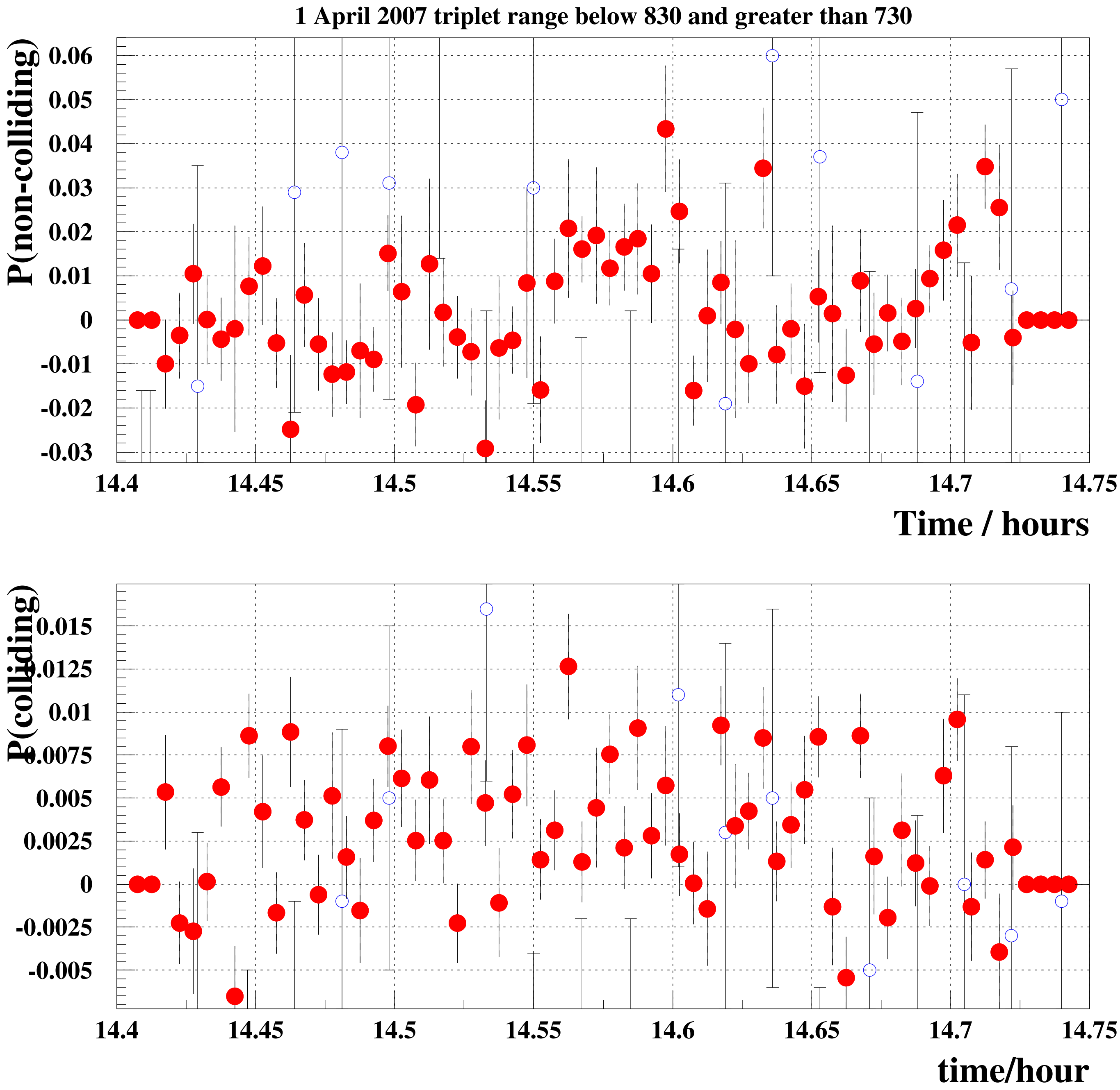

P(colliding)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
13.75
13.8
13.85
13.9
13.95
14
14.05
14.1
time/hour

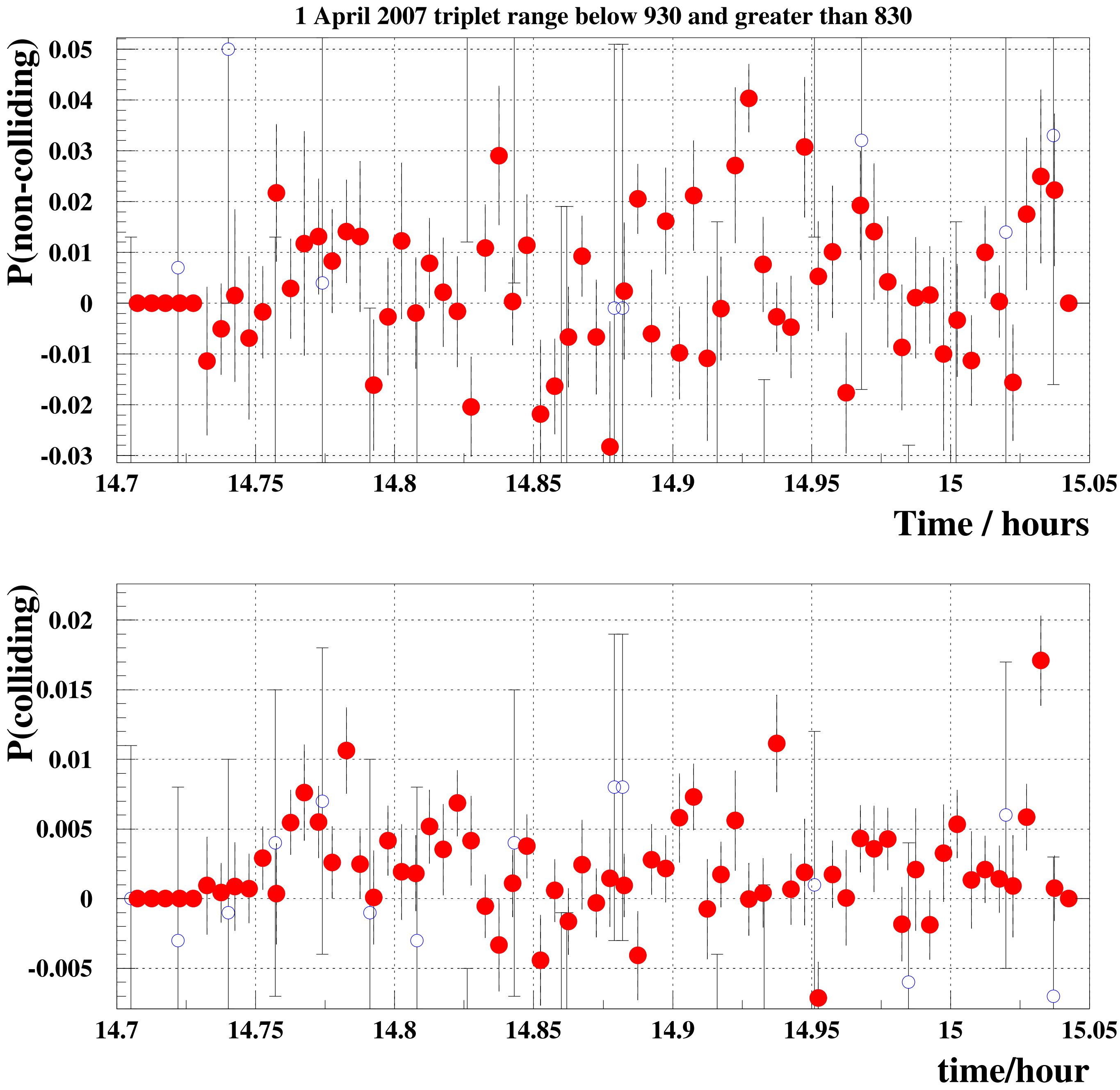


1 April 2007 triplet range below 730 and greater than 630
P(non-colliding)
0.04
0.02
0
-0.02
-0.04
14.1
14.15
14.2
14.25
14.3
14.35
14.4
14.45
Time / hours

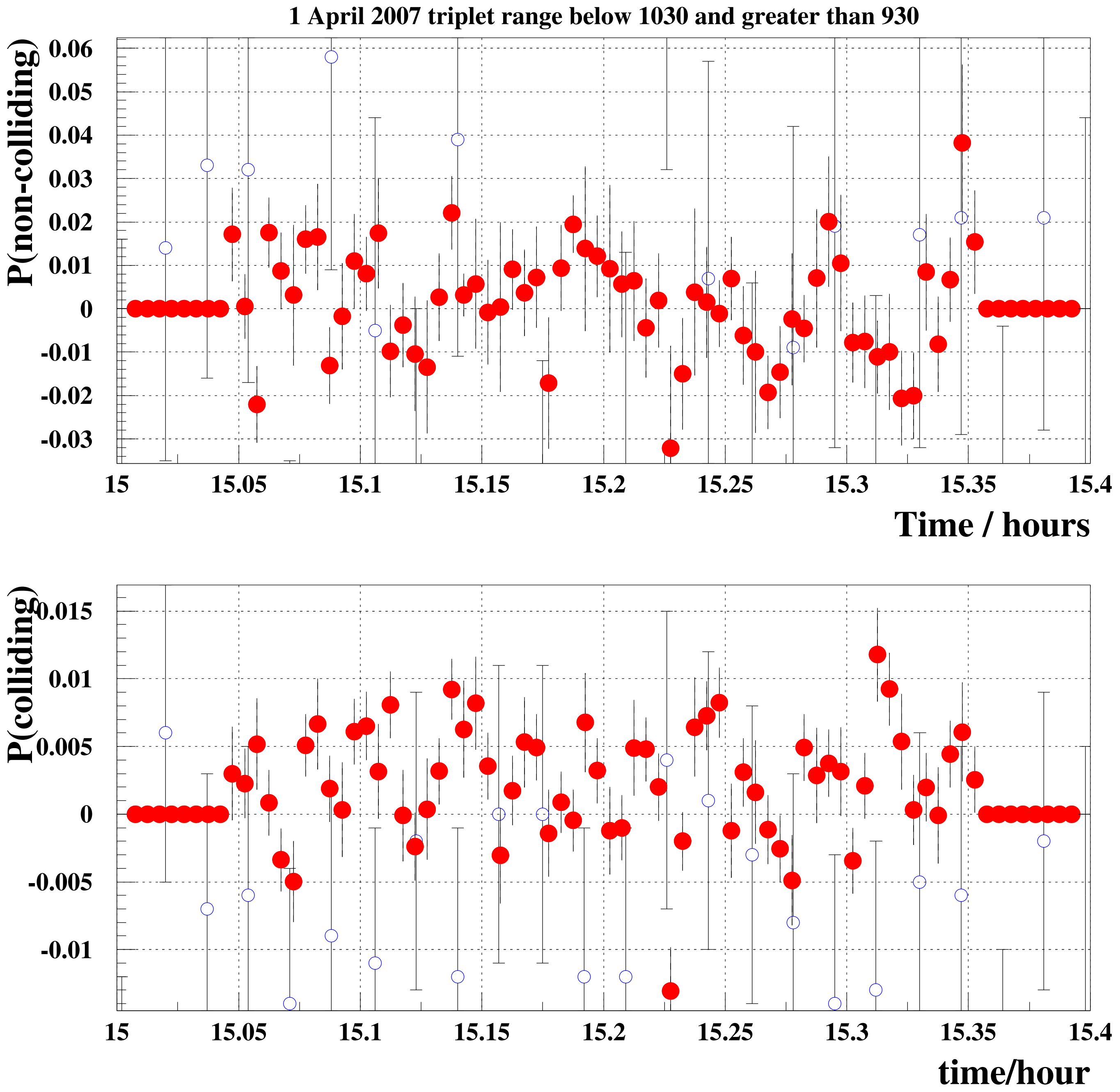


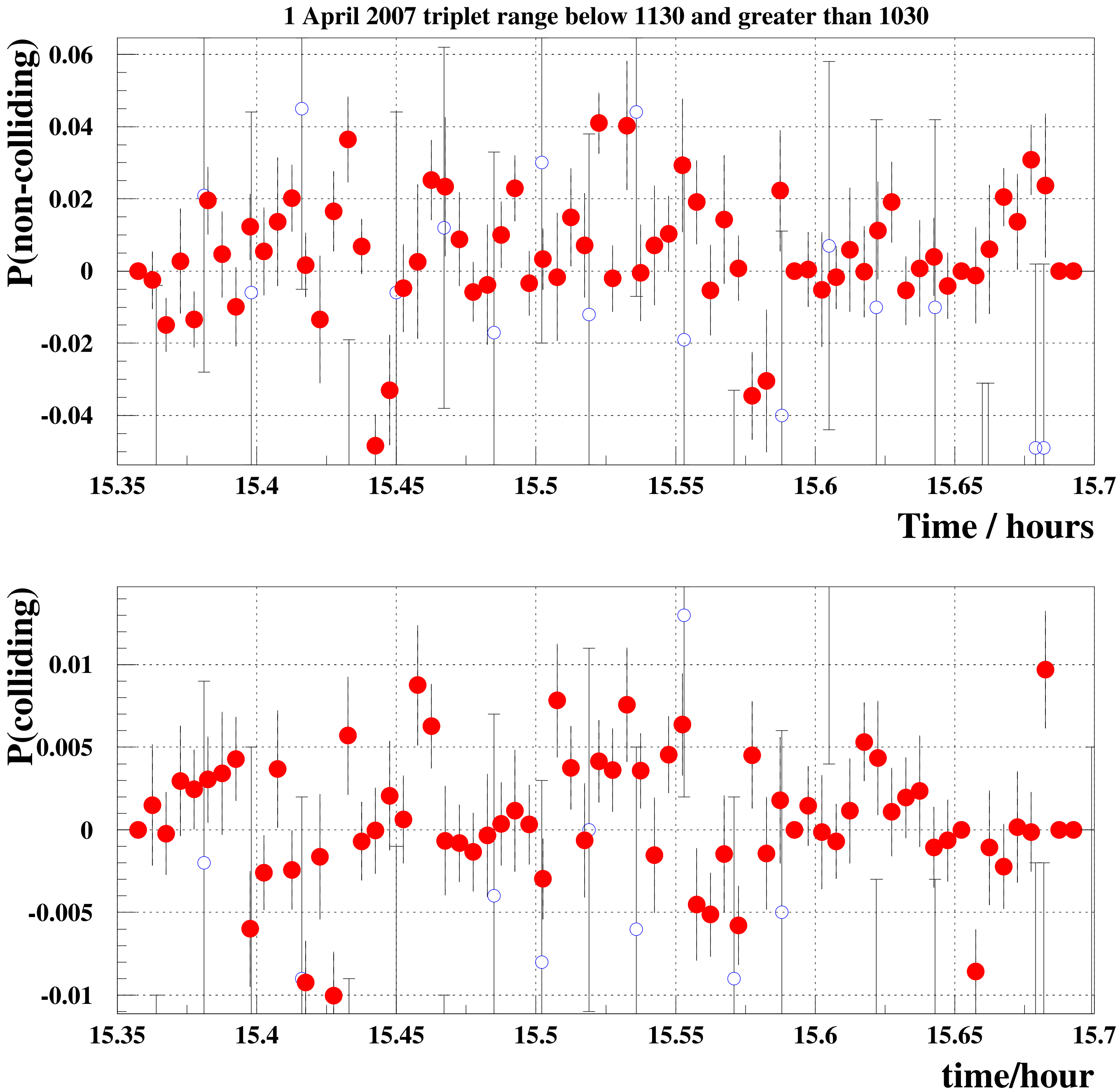
P(colliding)
0.015
0.01
0.005
0
-0.005
14.1
14.15
14.2
14.25
14.3
14.35
14.4
14.45
time/hour


1 April 2007 triplet range below 830 and greater than 730
P(non-colliding)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
14.4
14.45
14.5
14.55
14.6
14.65
14.7
14.75
Time / hours
P(colliding)
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.0025
-0.005
14.4
14.45
14.5
14.55
14.6
14.65
14.7
14.75
time/hour

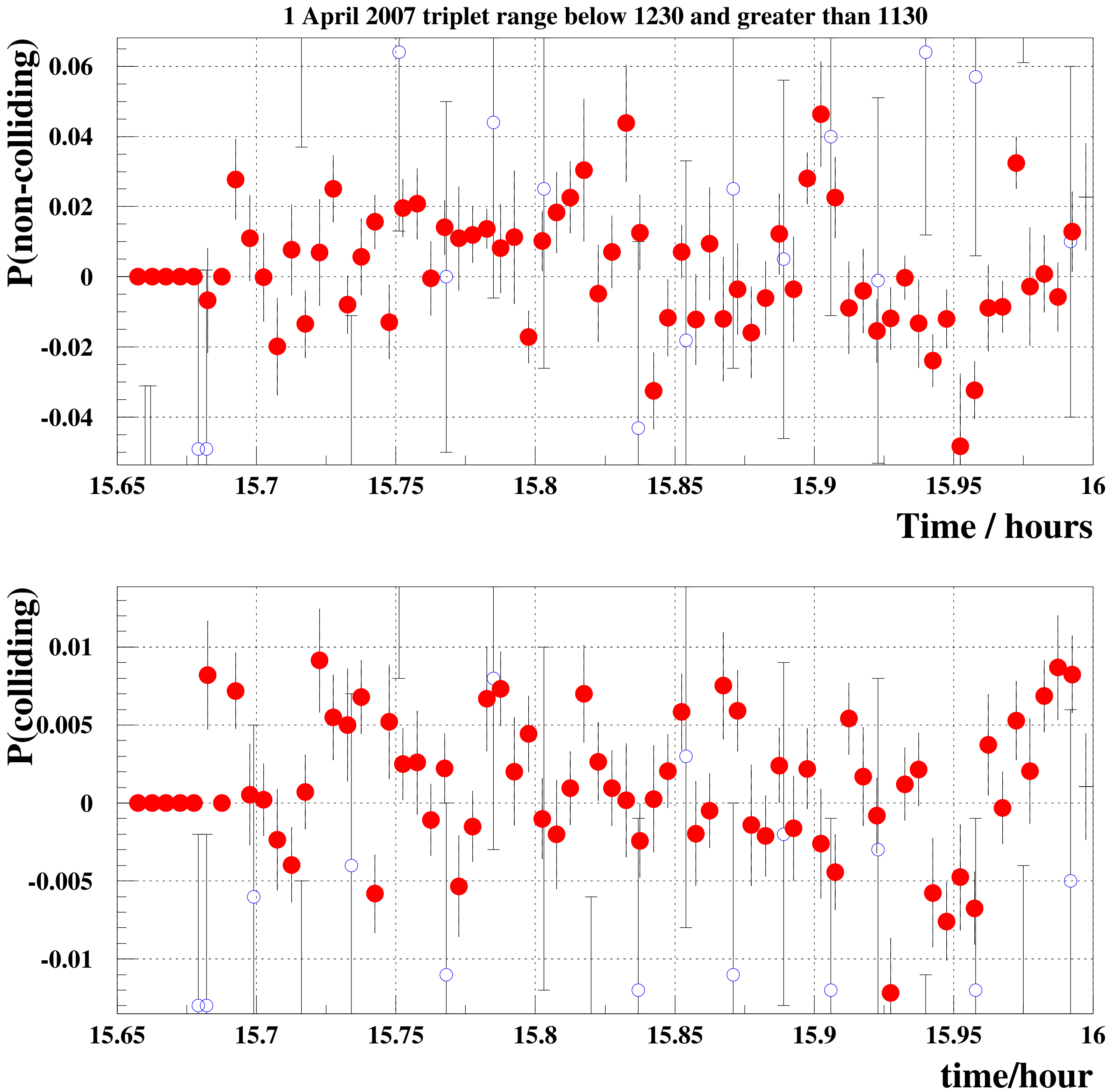


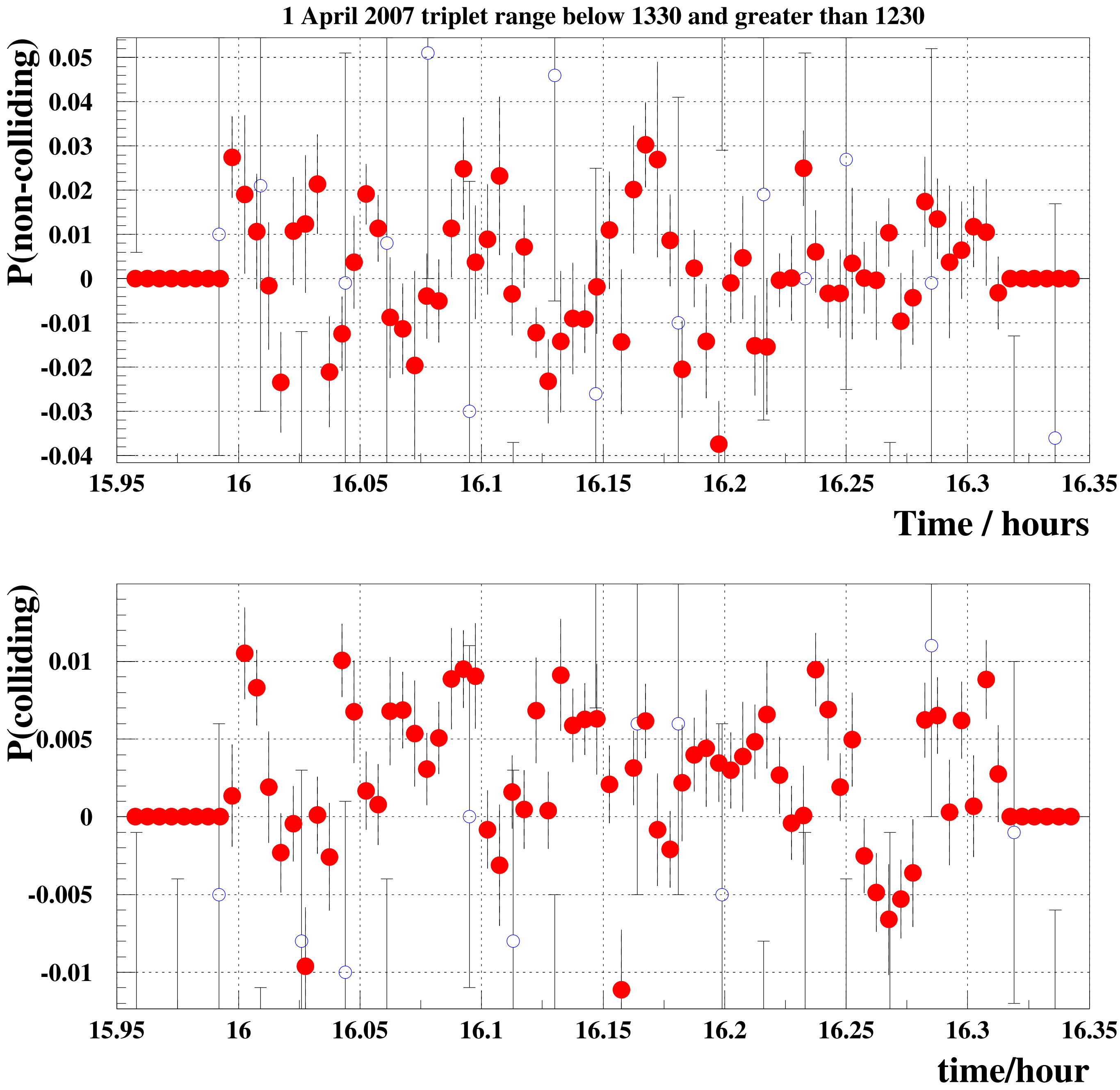
1 April 2007 triplet range below 930 and greater than 830
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
14.7
14.75
14.8
14.85
14.9
14.95
15
15.05
Time / hours
P(colliding)
0.02
0.015
0.01
0.005
0
-0.005
14.7
14.75
14.8
14.85
14.9
14.95
15
15.05
time/hour


1 April 2007 triplet range below 1030 and greater than 930
P(non-colliding)
Time / hours
P(colliding)
time/hour
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
0.015
0.01
0.005
-0.005
15
15.05
15.1
15.15
15.2
15.25
15.3
15.35
15.4

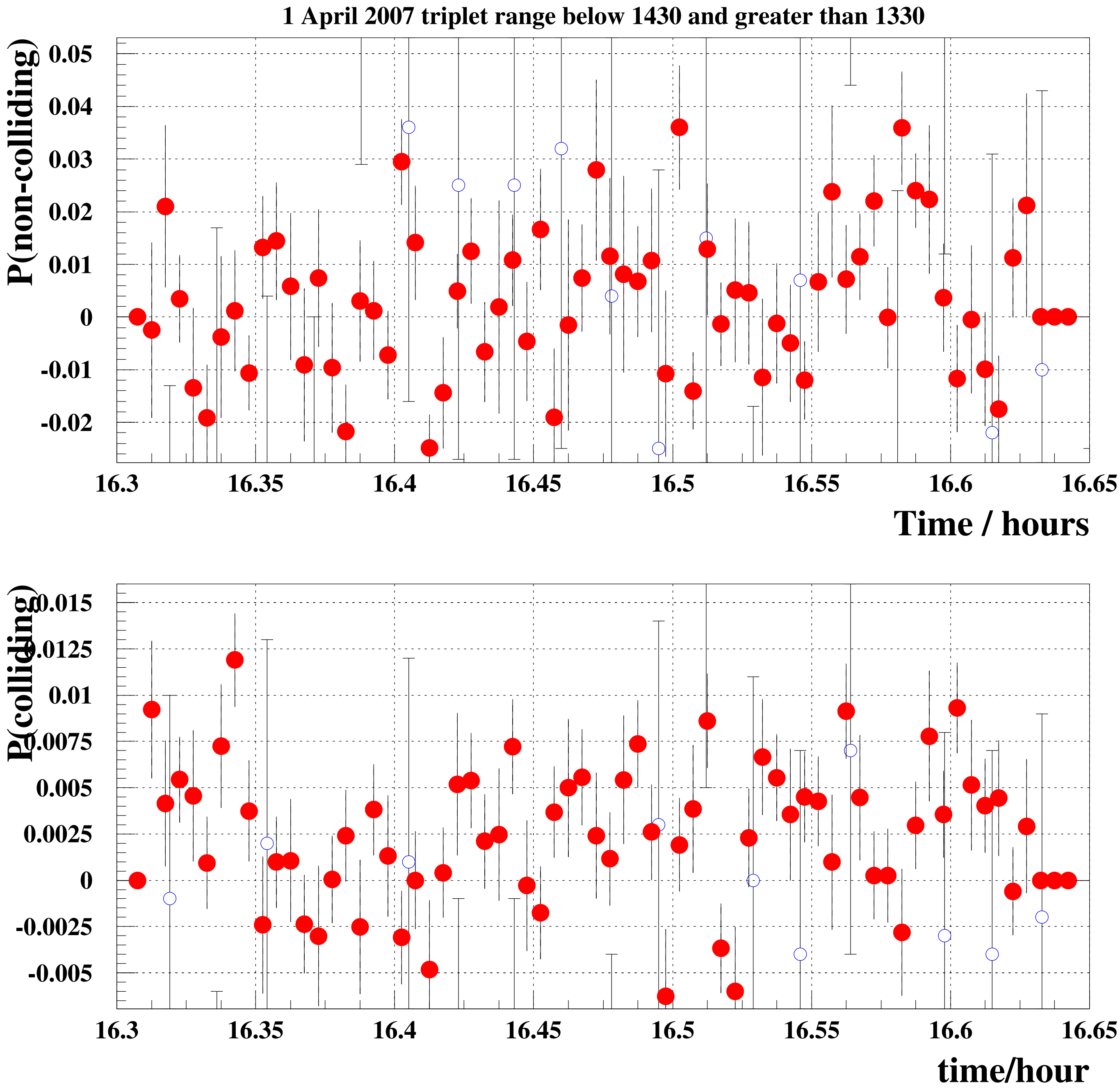


1 April 2007 triplet range below 1130 and greater than 1030
P(non-colliding)
0.06
0.04
0.02
0
-0.02
-0.04
15.35
15.4
15.45
15.5
15.55
15.6
15.65
15.7
Time / hours
P(colliding)
0.01
0.005
0
-0.005
-0.01
15.35
15.4
15.45
15.5
15.55
15.6
15.65
15.7
time/hour

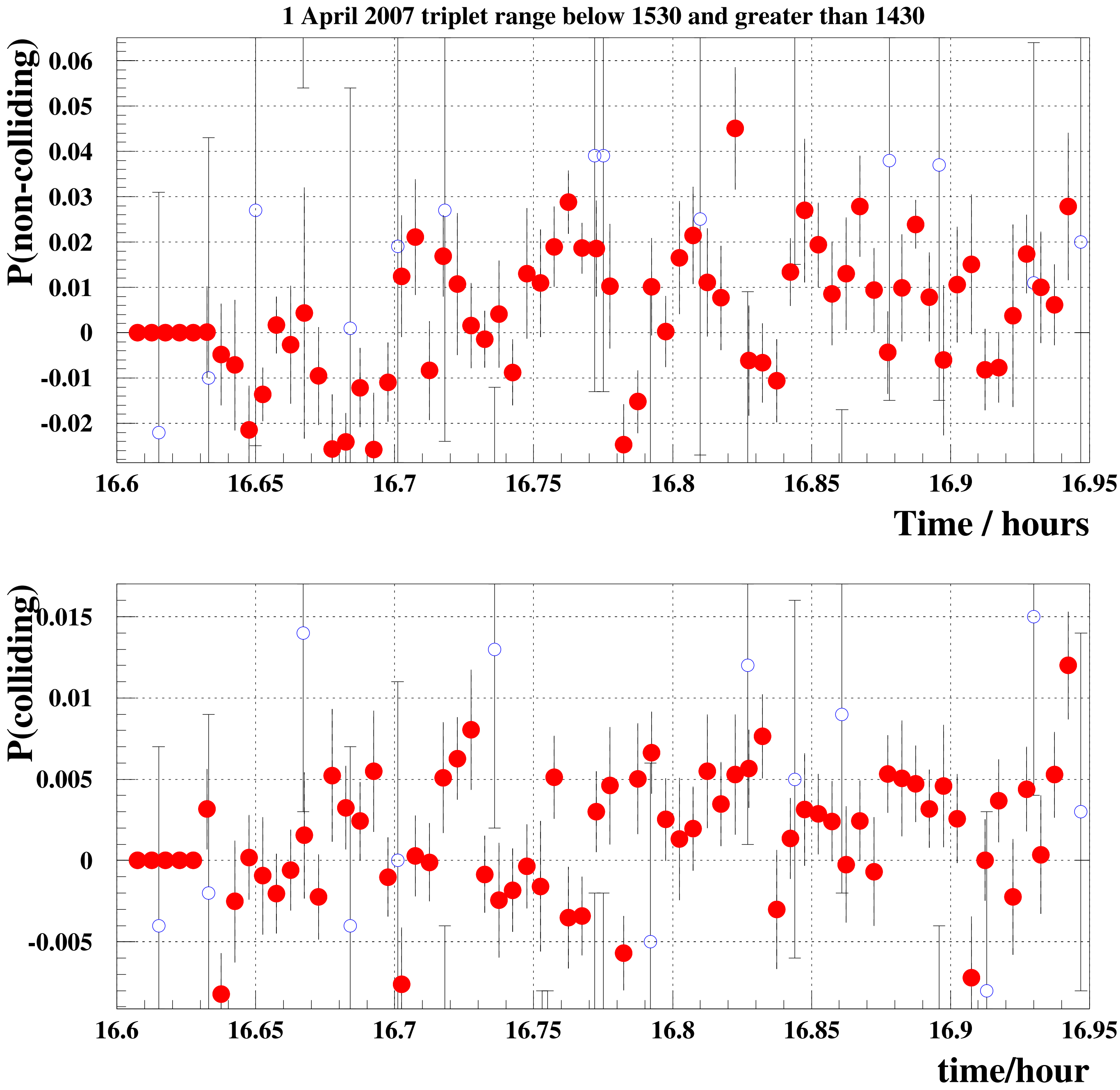

1 April 2007 triplet range below 1230 and greater than 1130
P(non-colliding)
0.06
0.04
0.02
0
-0.02
-0.04
15.65
15.7
15.75
15.8
15.85
15.9
15.95
16
Time / hours
P(colliding)
0.01
0.005
0
-0.005
-0.01
15.65
15.7
15.75
15.8
15.85
15.9
15.95
16
time/hour

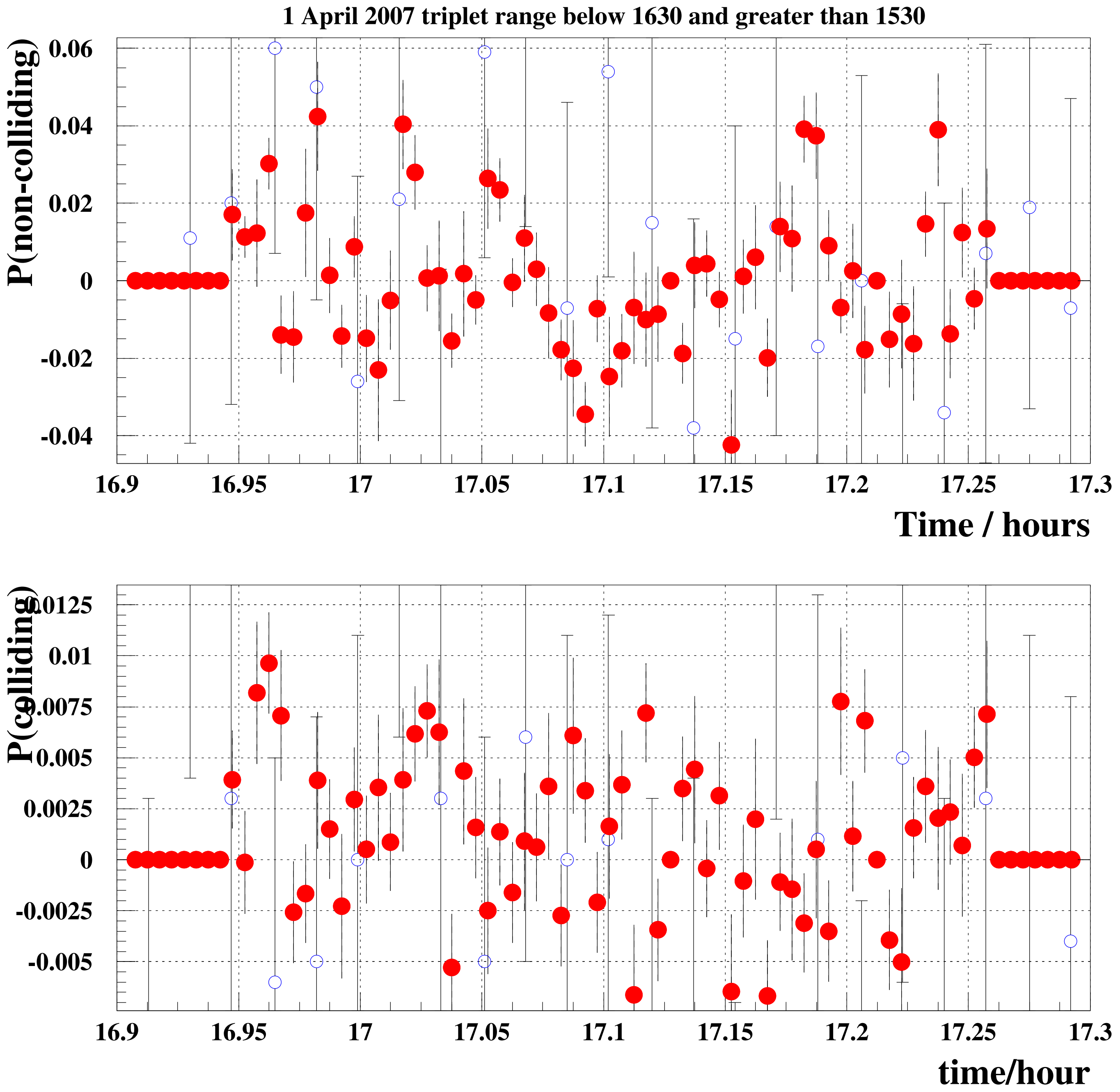


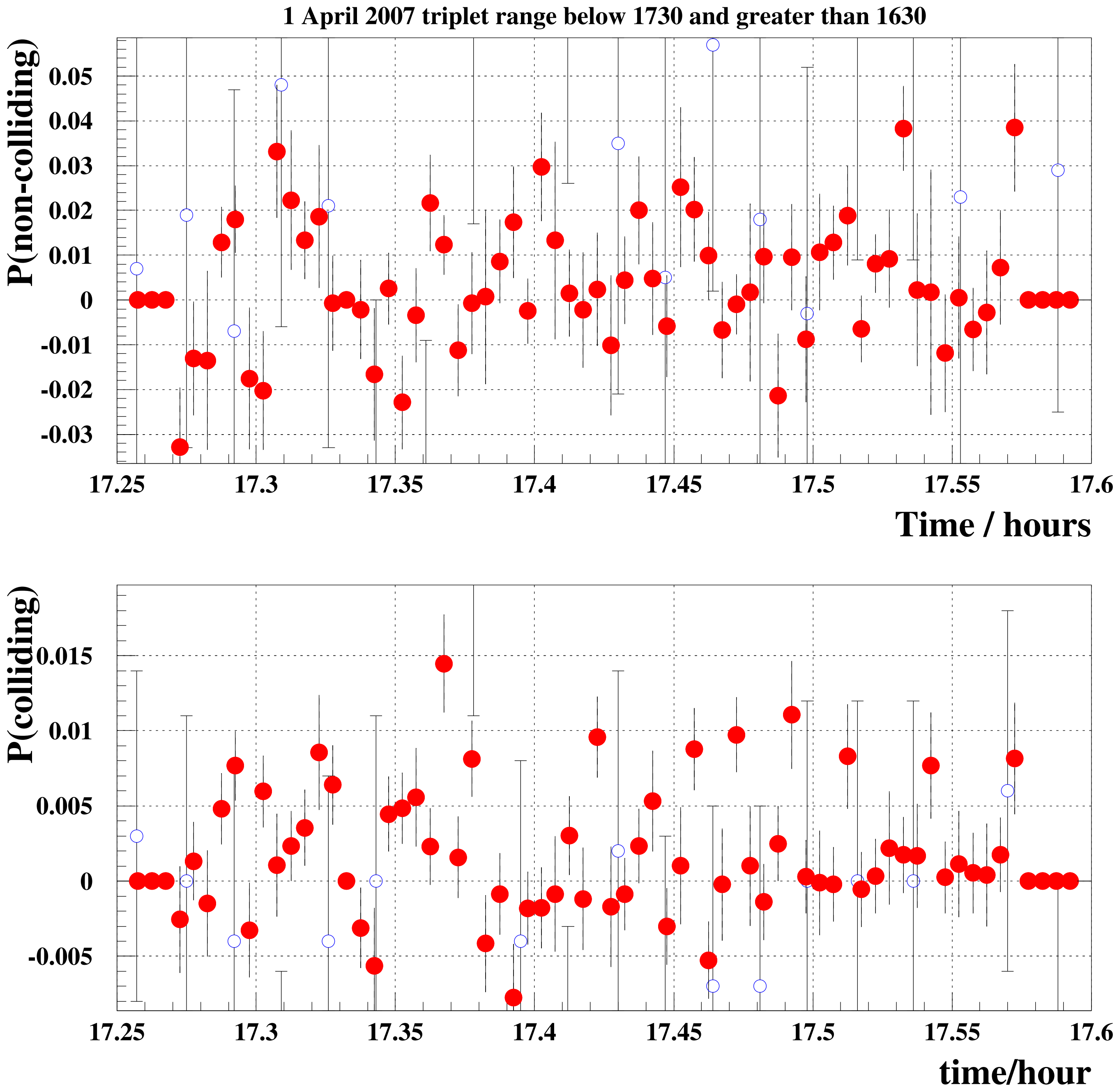
1 April 2007 triplet range below 1330 and greater than 1230
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
-0.04
15.95
16
16.05
16.1
16.15
16.2
16.25
16.3
16.35
Time / hours
P(colliding)
0.01
0.005
0
-0.005
-0.01
15.95
16
16.05
16.1
16.15
16.2
16.25
16.3
16.35
time/hour



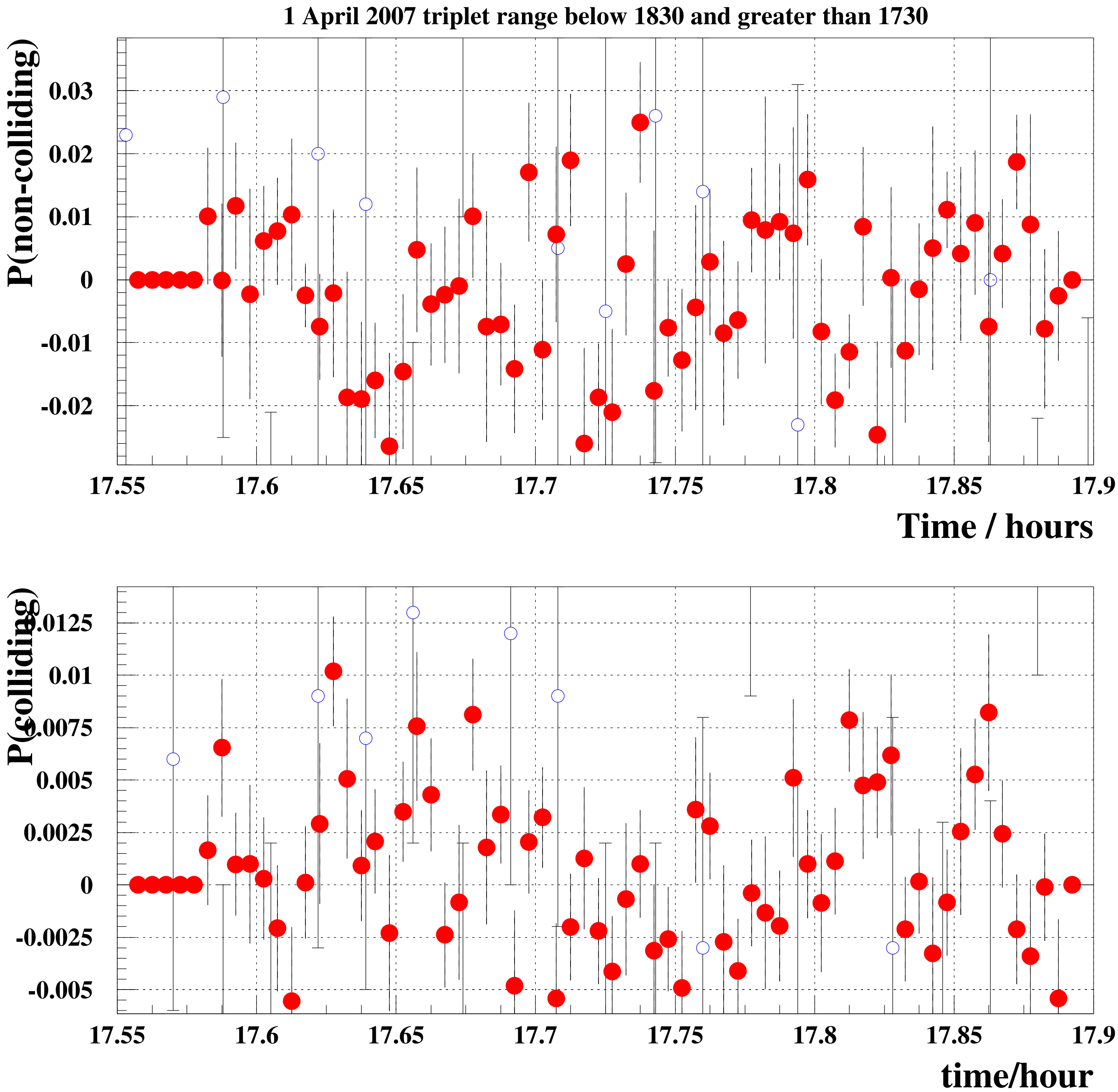
1 April 2007 triplet range below 1430 and greater than 1330
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
16.3
16.35
16.4
16.45
16.5
16.55
16.6
16.65
Time / hours
P(colliding)
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.0025
-0.005
16.3
16.35
16.4
16.45
16.5
16.55
16.6
16.65
time/hour

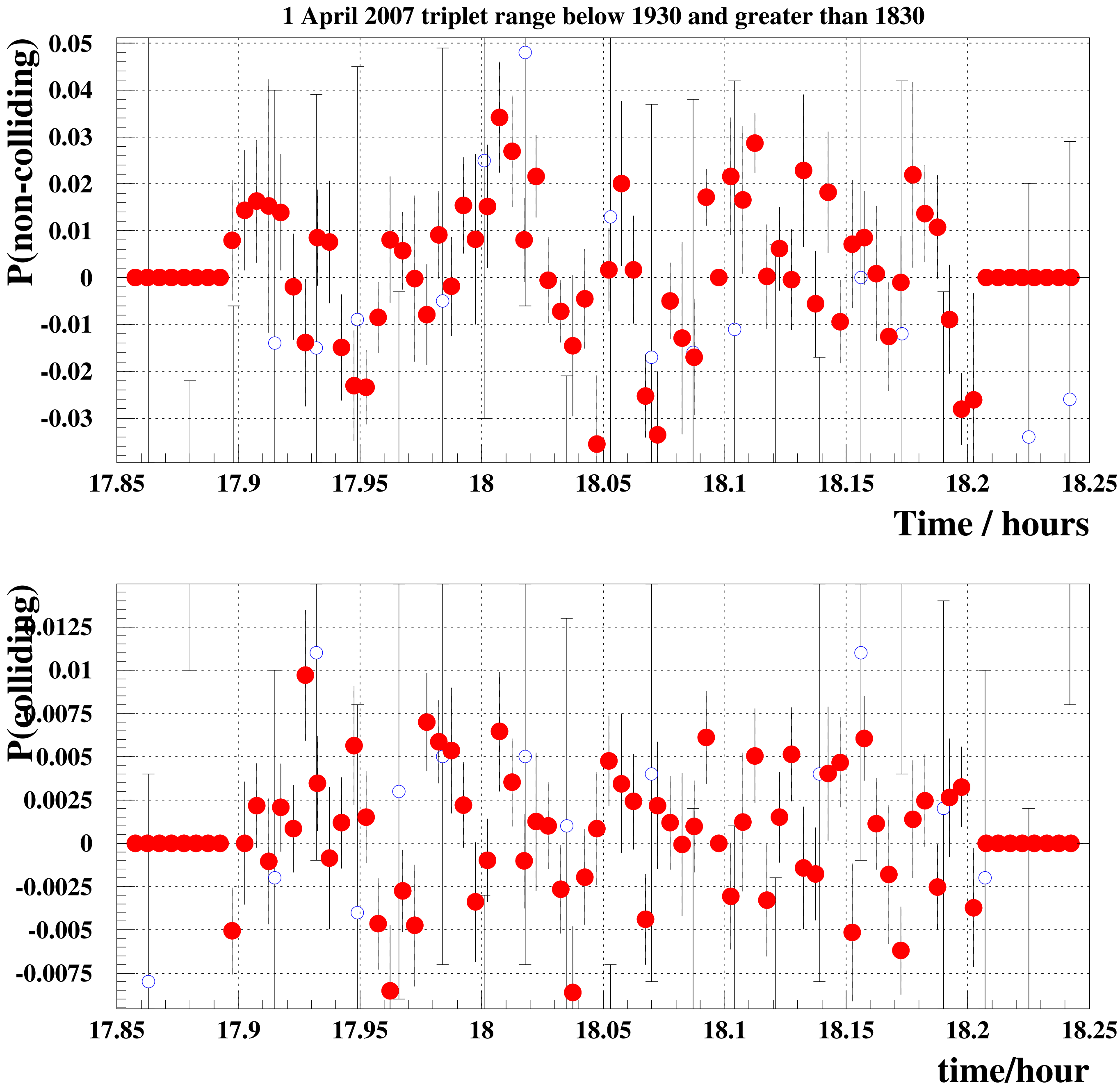

1 April 2007 triplet range below 1530 and greater than 1430
P(non-colliding)
0.06
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
16.6
16.65
16.7
16.75
16.8
16.85
16.9
16.95
Time / hours
P(colliding)
0.015
0.01
0.005
0
-0.005
16.6
16.65
16.7
16.75
16.8
16.85
16.9
16.95
time/hour


1 April 2007 triplet range below 1630 and greater than 1530
P(non-colliding)
0.06
0.04
0.02
0
-0.02
-0.04
16.9
16.95
17
17.05
17.1
17.15
17.2
17.25
17.3
Time / hours
P(colliding)
0.0125
0.01
0.0075
0.005
0.0025
0
-0.0025
-0.005
16.9
16.95
17
17.05
17.1
17.15
17.2
17.25
17.3
time/hour

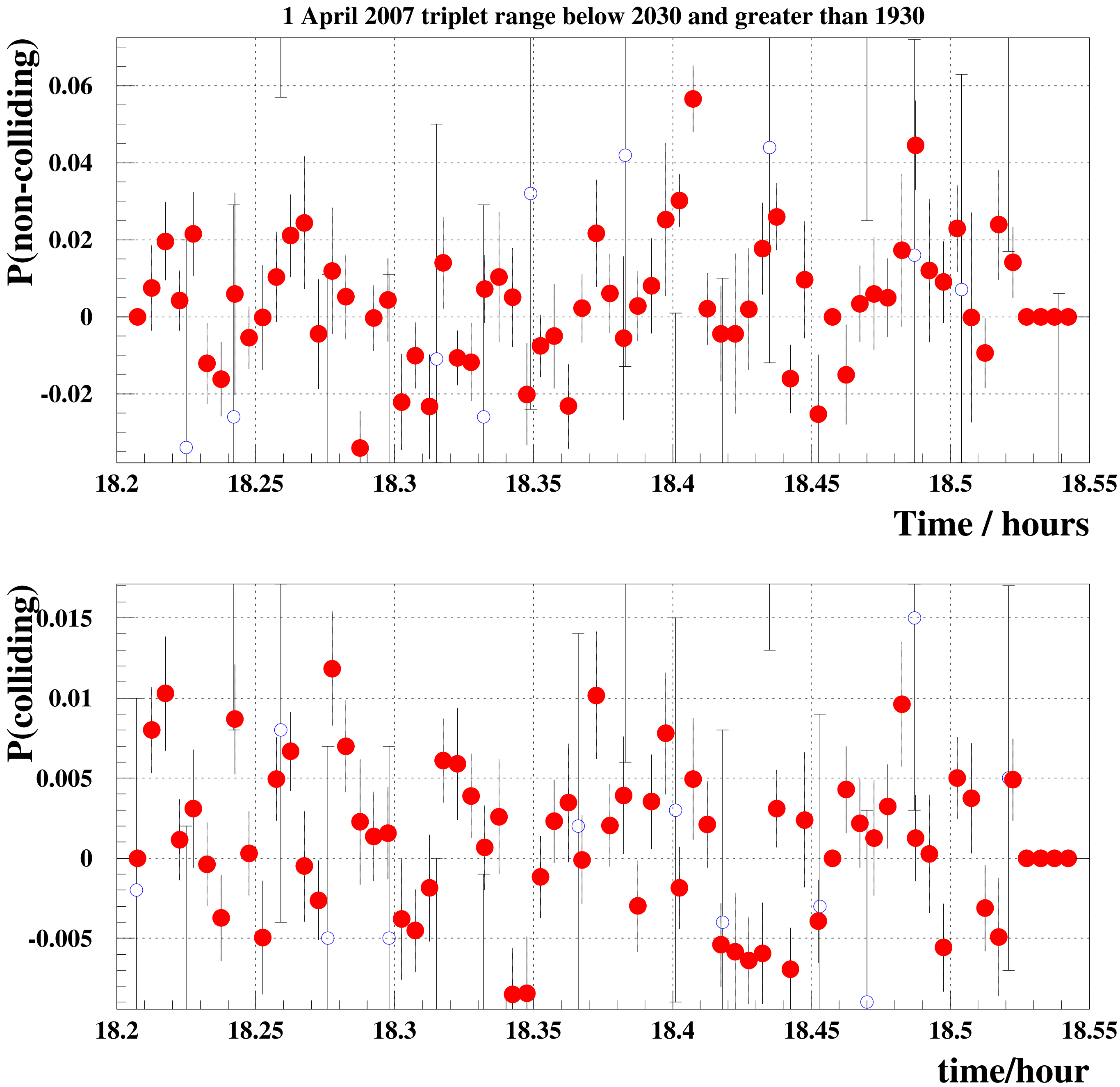


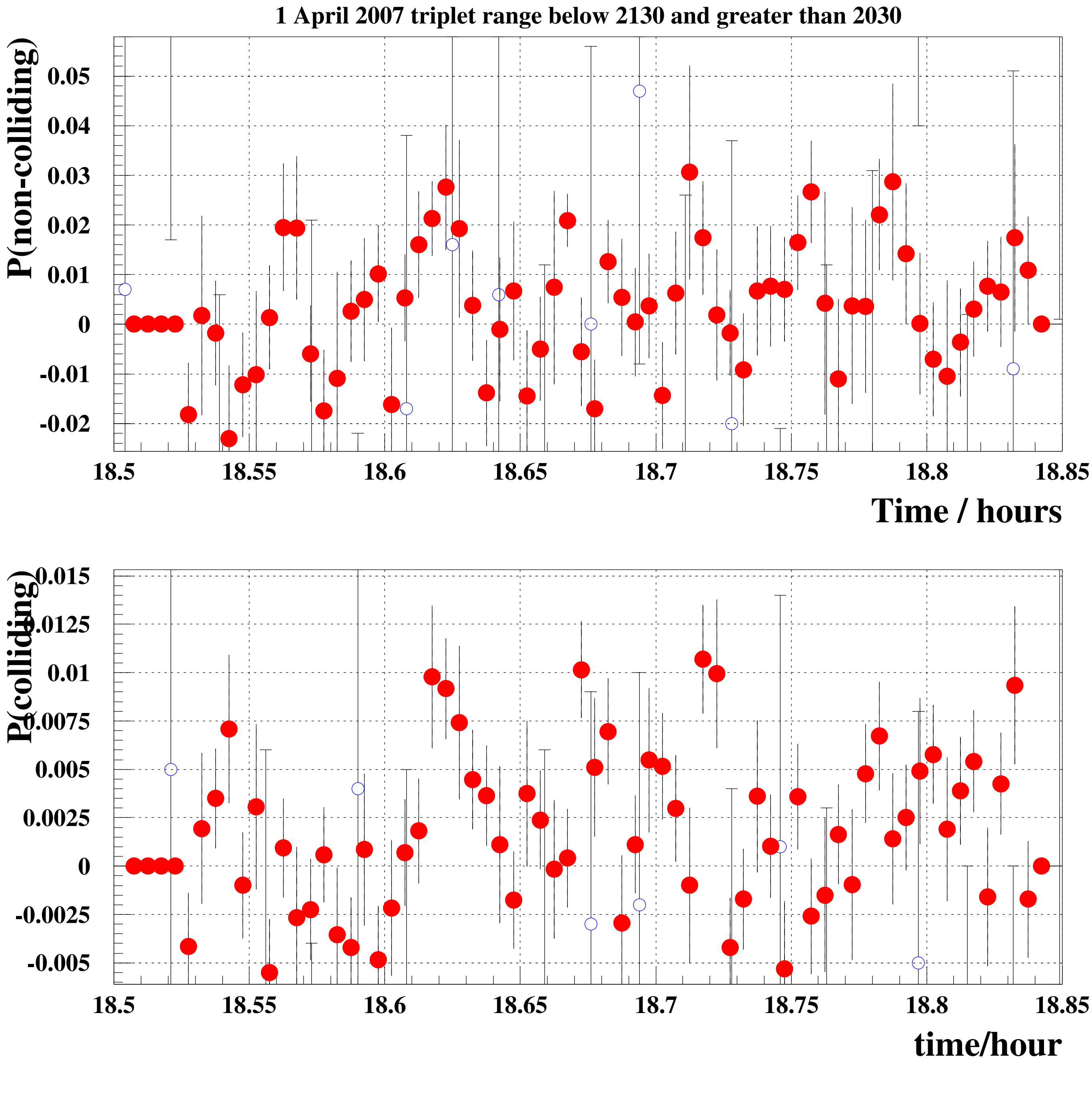
1 April 2007 triplet range below 1730 and greater than 1630
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
17.25
17.3
17.35
17.4
17.45
17.5
17.55
17.6
Time / hours
P(colliding)
0.015
0.01
0.005
0
-0.005
17.25
17.3
17.35
17.4
17.45
17.5
17.55
17.6
time/hour


1 April 2007 triplet range below 1830 and greater than 1730
P(non-colliding)
0.03
0.02
0.01
0
-0.01
-0.02
17.55
17.6
17.65
17.7
17.75
17.8
17.85
17.9
Time / hours
P(colliding)
0.0125
0.01
0.0075
0.005
0.0025
0
-0.0025
-0.005
17.55
17.6
17.65
17.7
17.75
17.8
17.85
17.9
time/hour

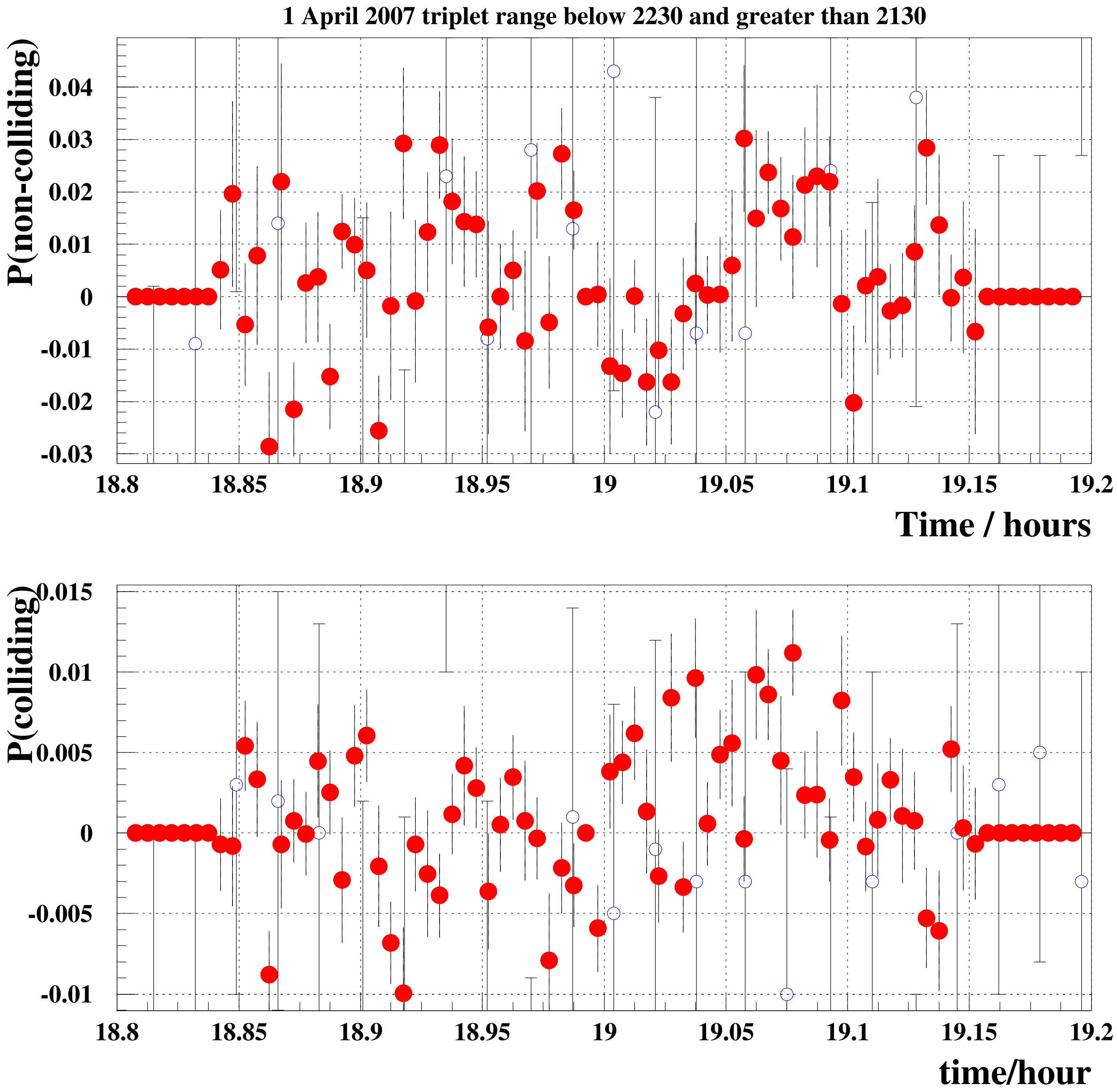


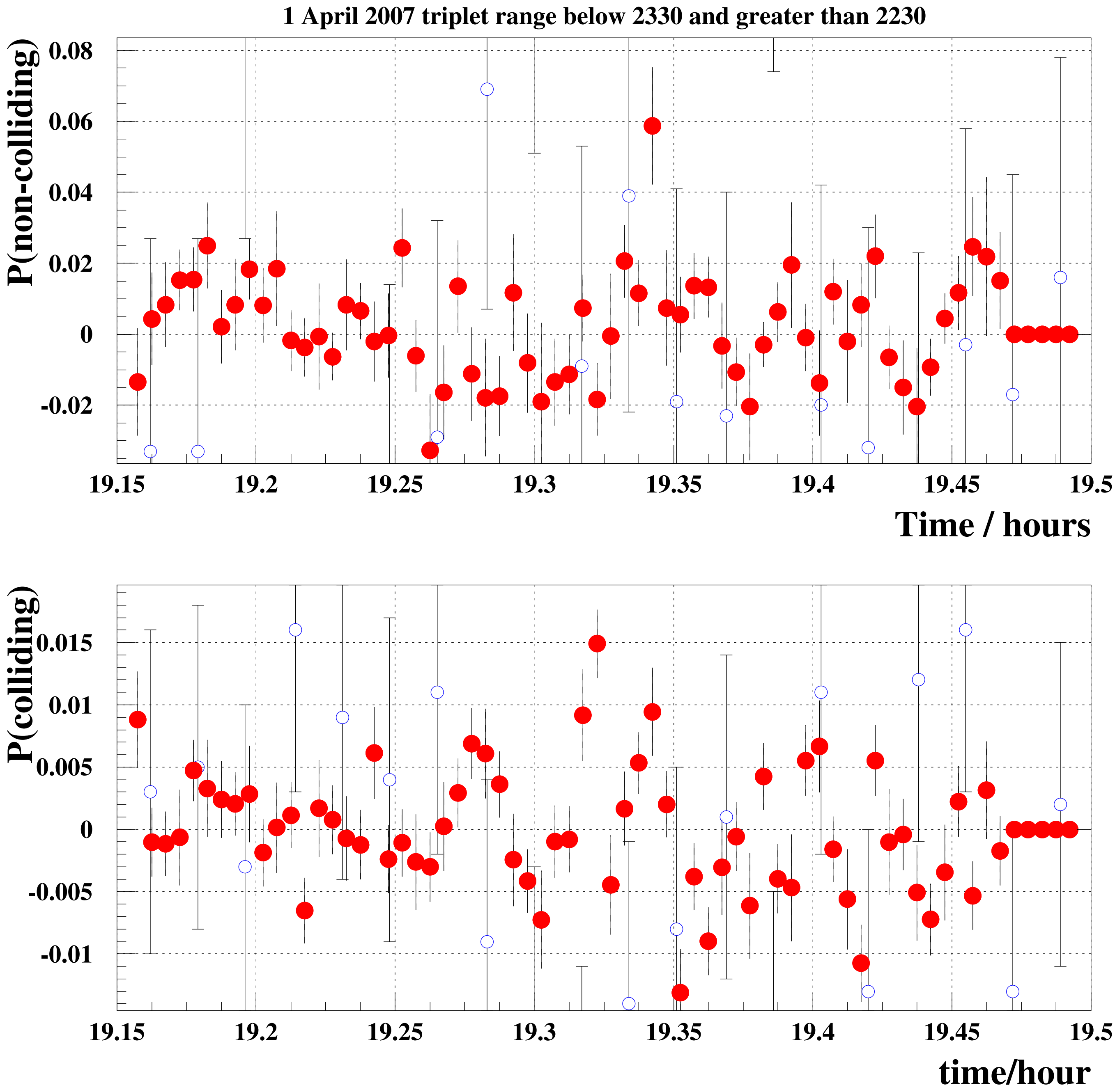
1 April 2007 triplet range below 1930 and greater than 1830
P(non-colliding)
Time / hours
P(colliding)
time/hour

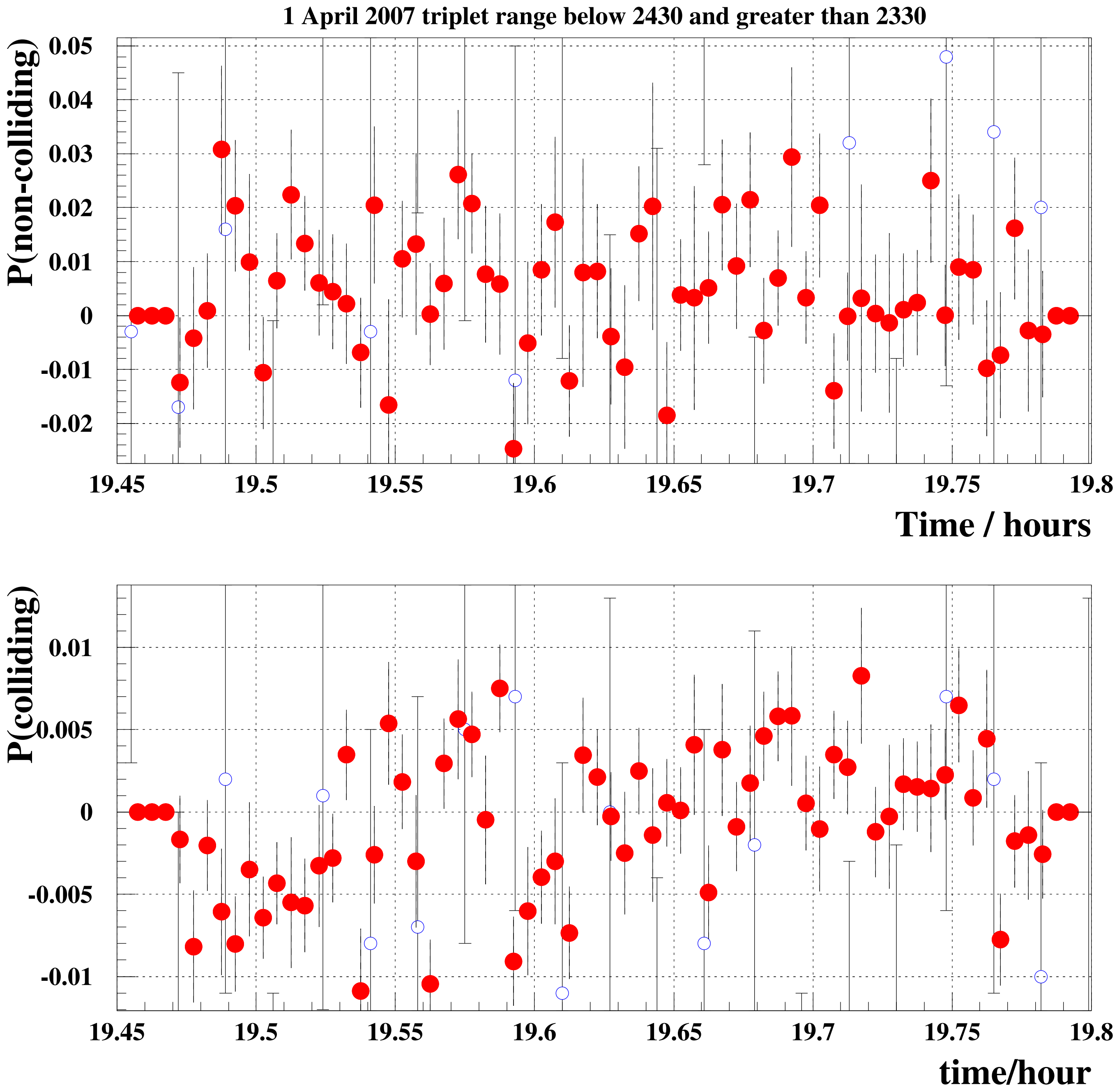

1 April 2007 triplet range below 2030 and greater than 1930
P(non-colliding)
0.06
0.04
0.02
0
-0.02
18.2
18.25
18.3
18.35
18.4
18.45
18.5
18.55
Time / hours
P(colliding)
0.015
0.01
0.005
0
-0.005
18.2
18.25
18.3
18.35
18.4
18.45
18.5
18.55
time/hour

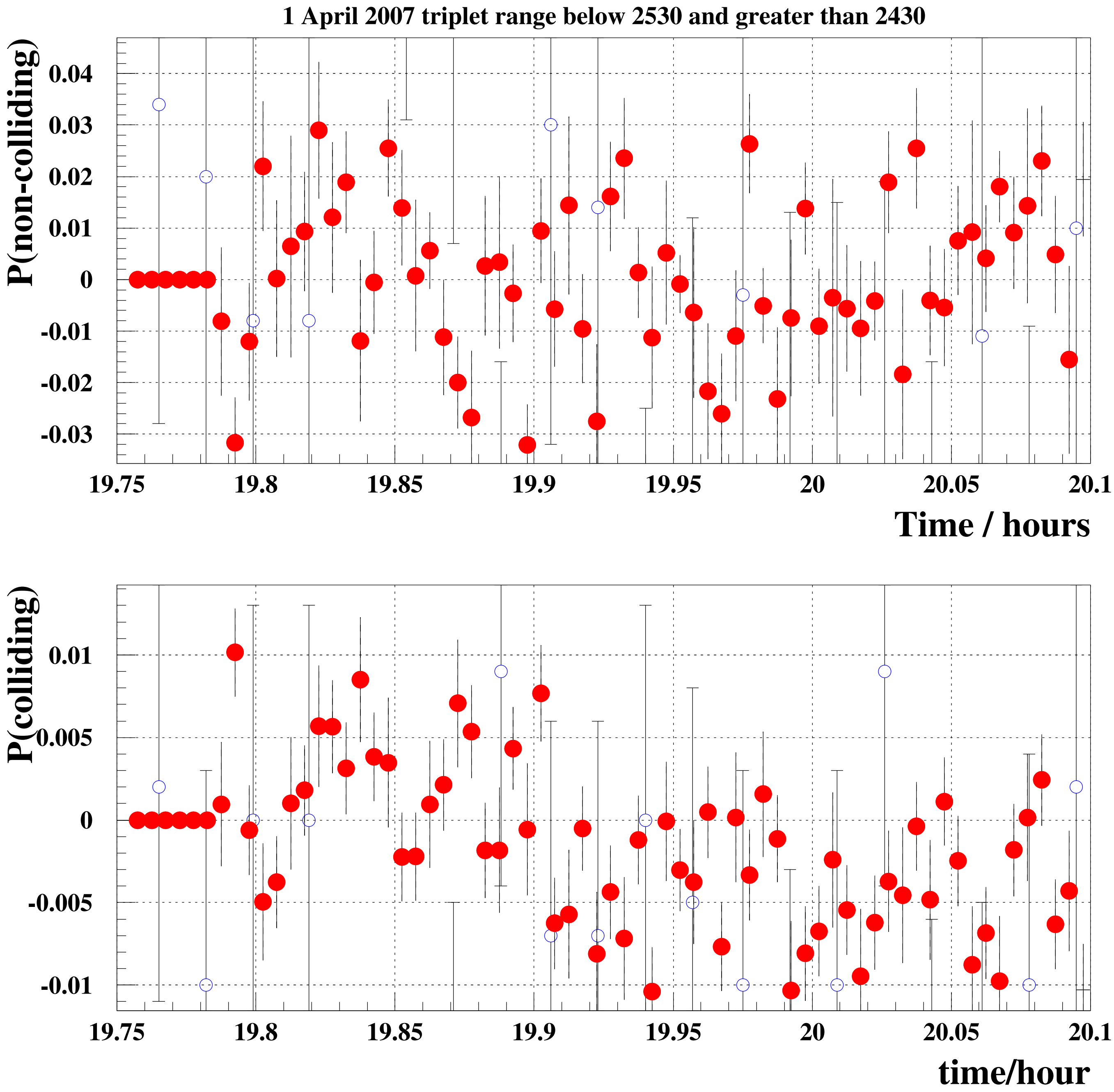


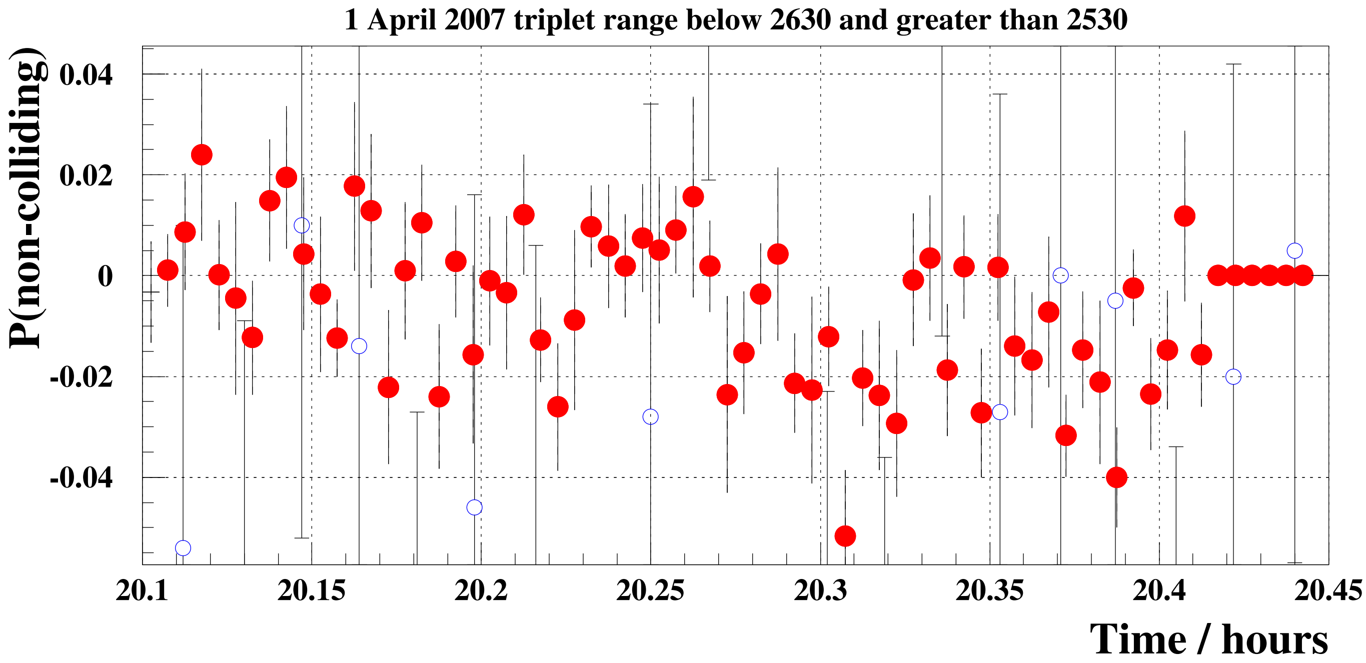
1 April 2007 triplet range below 2130 and greater than 2030
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
18.5
18.55
18.6
18.65
18.7
18.75
18.8
18.85
Time / hours
P(colliding)
0.015
0.0125
0.01
0.0075
0.005
0.0025
0
-0.0025
-0.005
18.5
18.55
18.6
18.65
18.7
18.75
18.8
18.85
time/hour

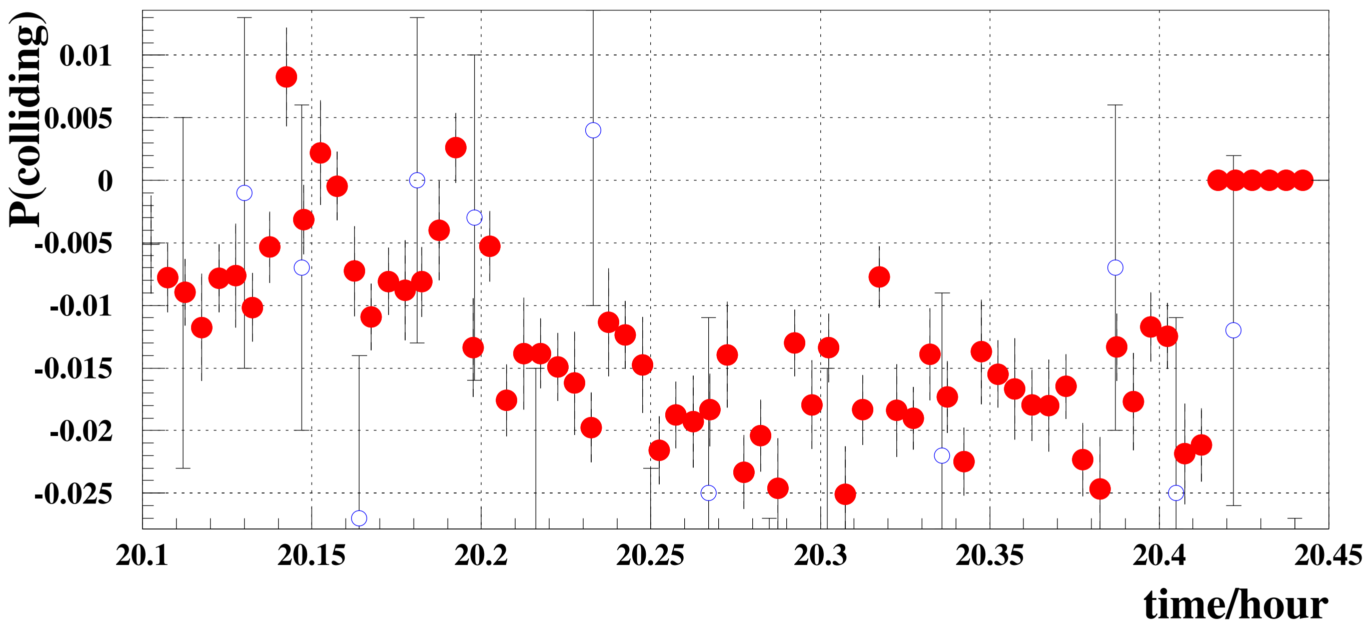

1 April 2007 triplet range below 2230 and greater than 2130
P(non-colliding)
Time / hours
P(colliding)
time/hour

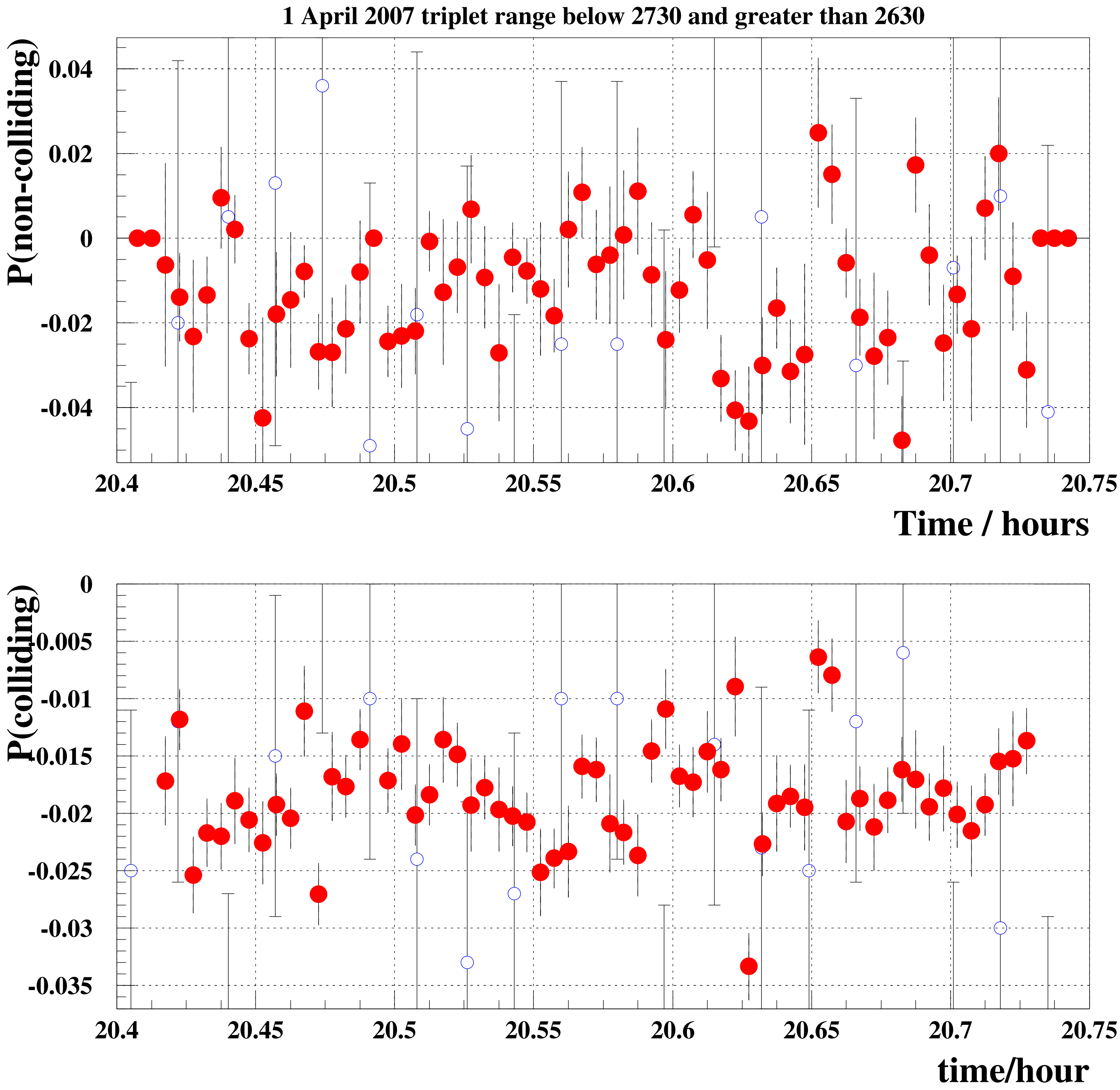

1 April 2007 triplet range below 2330 and greater than 2230
P(non-colliding)
0.08
0.06
0.04
0.02
0
-0.02
19.15
19.2
19.25
19.3
19.35
19.4
19.45
19.5
Time / hours
P(colliding)
0.015
0.01
0.005
0
-0.005
-0.01
19.15
19.2
19.25
19.3
19.35
19.4
19.45
19.5
time/hour


1 April 2007 triplet range below 2430 and greater than 2330
P(non-colliding)
0.05
0.04
0.03
0.02
0.01
0
-0.01
-0.02
19.45
19.5
19.55
19.6
19.65
19.7
19.75
19.8
Time / hours
P(colliding)
0.01
0.005
0
-0.005
-0.01
19.45
19.5
19.55
19.6
19.65
19.7
19.75
19.8
time/hour

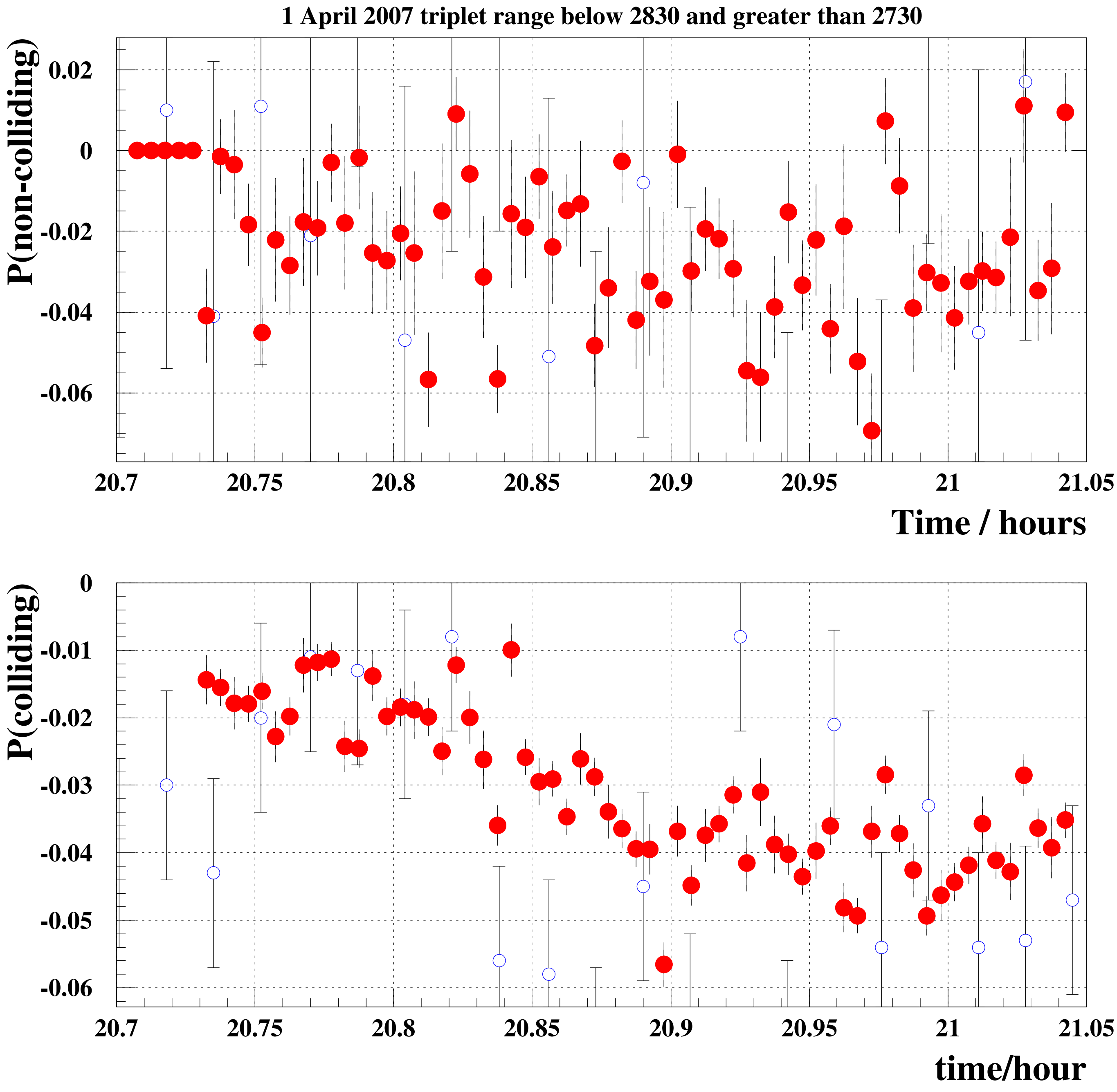

1 April 2007 triplet range below 2530 and greater than 2430
P(non-colliding)
0.04
0.03
0.02
0.01
0
-0.01
-0.02
-0.03
19.75
19.8
19.85
19.9
19.95
20
20.05
20.1
Time / hours
P(colliding)
0.01
0.005
0
-0.005
-0.01
19.75
19.8
19.85
19.9
19.95
20
20.05
20.1
time/hour

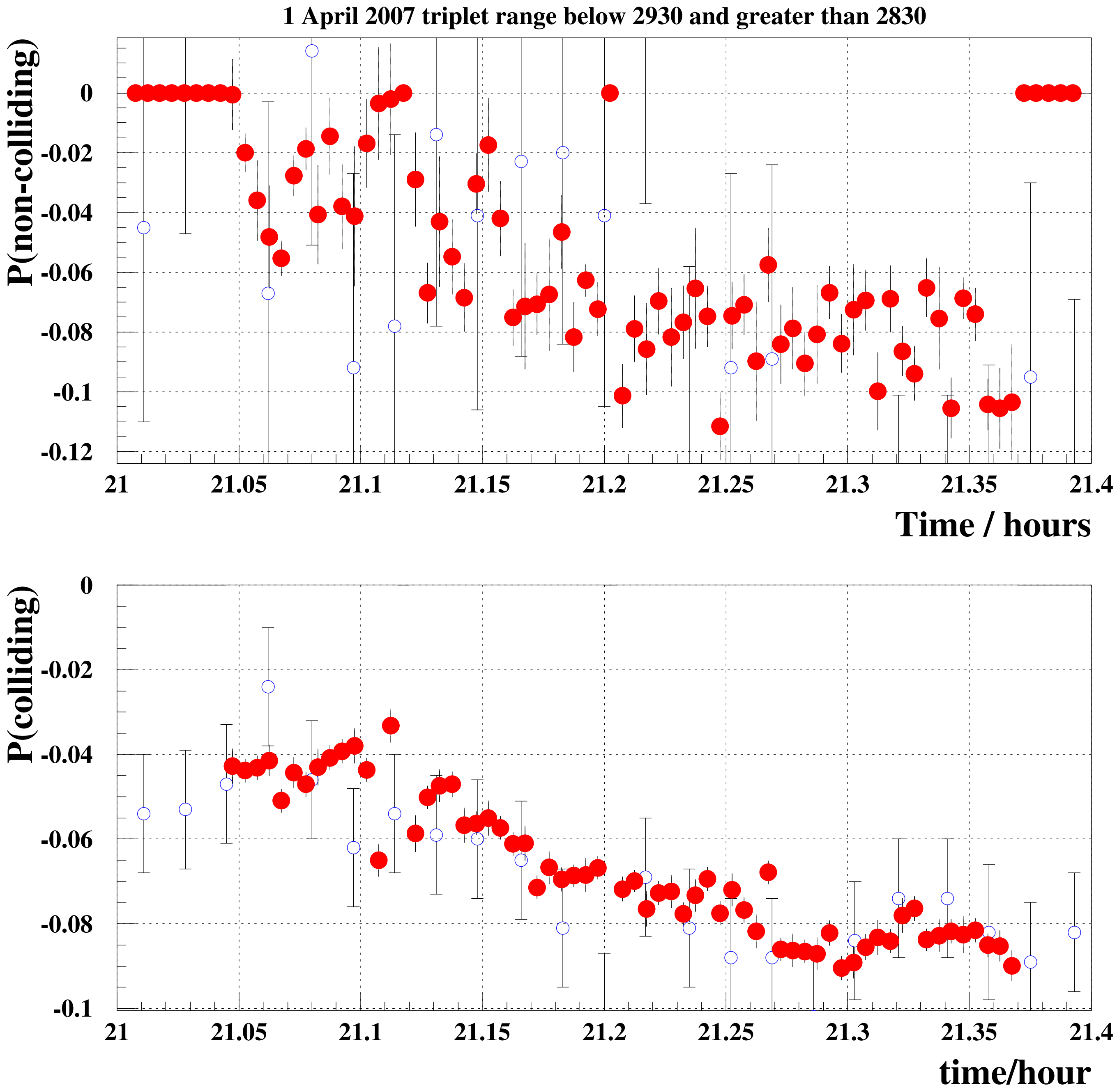

1 April 2007 triplet range below 2630 and greater than 2530
P(non-colliding)
0.04
0.02
0
-0.02
-0.04
20.1
20.15
20.2
20.25
20.3
20.35
20.4
20.45
Time / hours


P(colliding)
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
20.1
20.15
20.2
20.25
20.3
20.35
20.4
20.45
time/hour

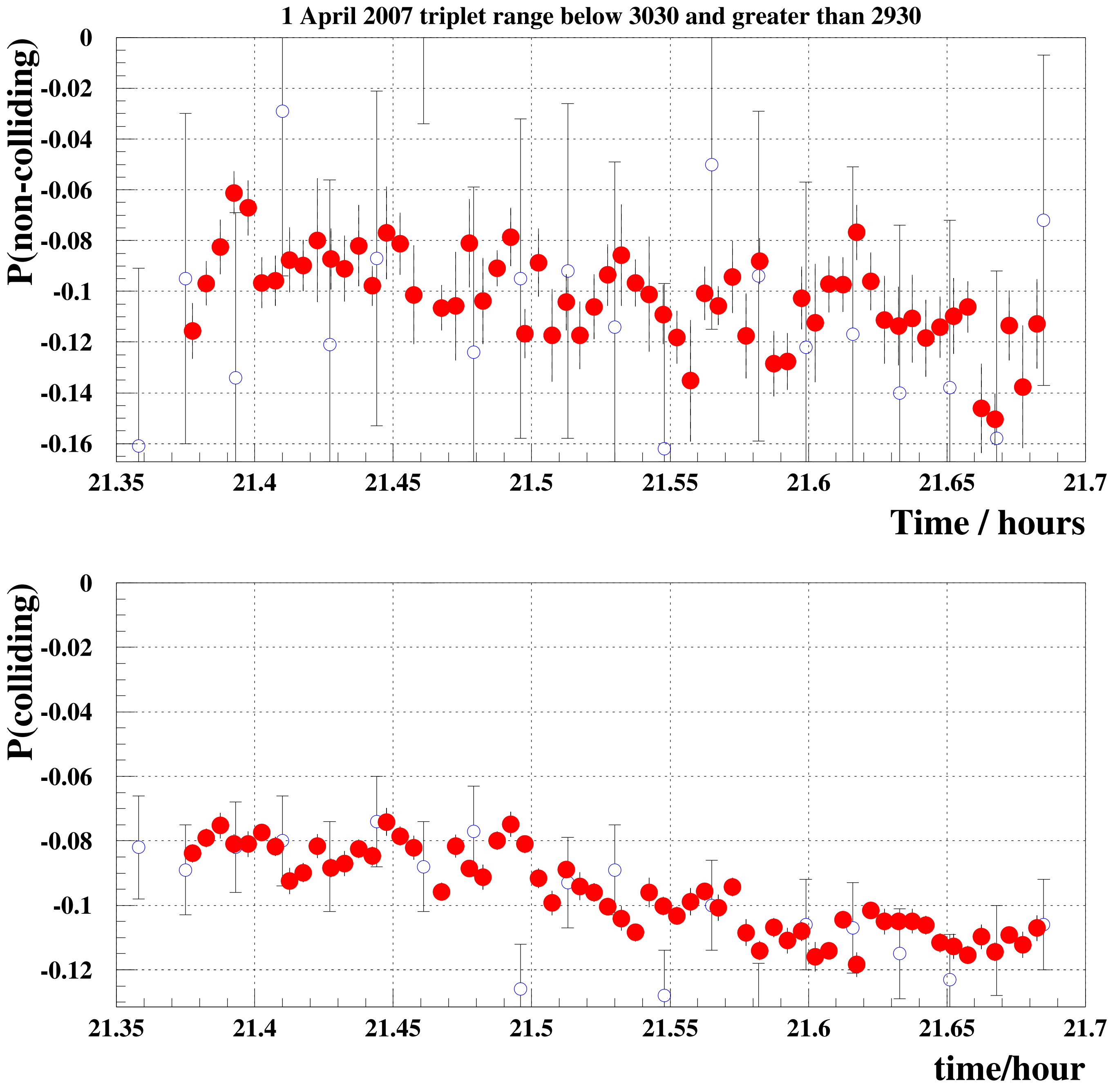


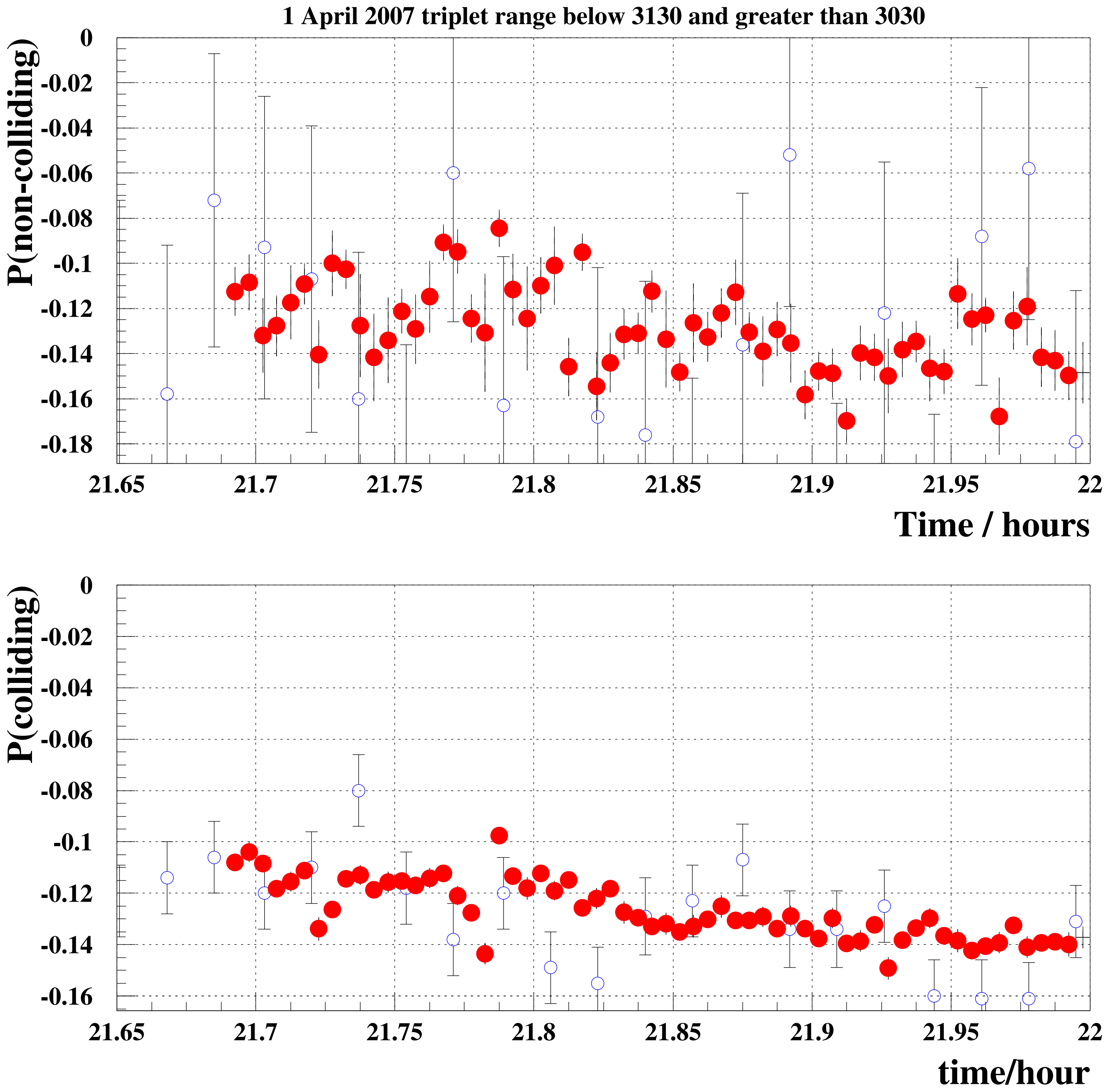
1 April 2007 triplet range below 2730 and greater than 2630
P(non-colliding)
0.04
0.02
0
-0.02
-0.04
20.4
20.45
20.5
20.55
20.6
20.65
20.7
20.75
Time / hours
P(colliding)
0
-0.005
-0.01
-0.015
-0.02
-0.025
-0.03
-0.035
20.4
20.45
20.5
20.55
20.6
20.65
20.7
20.75
time/hour

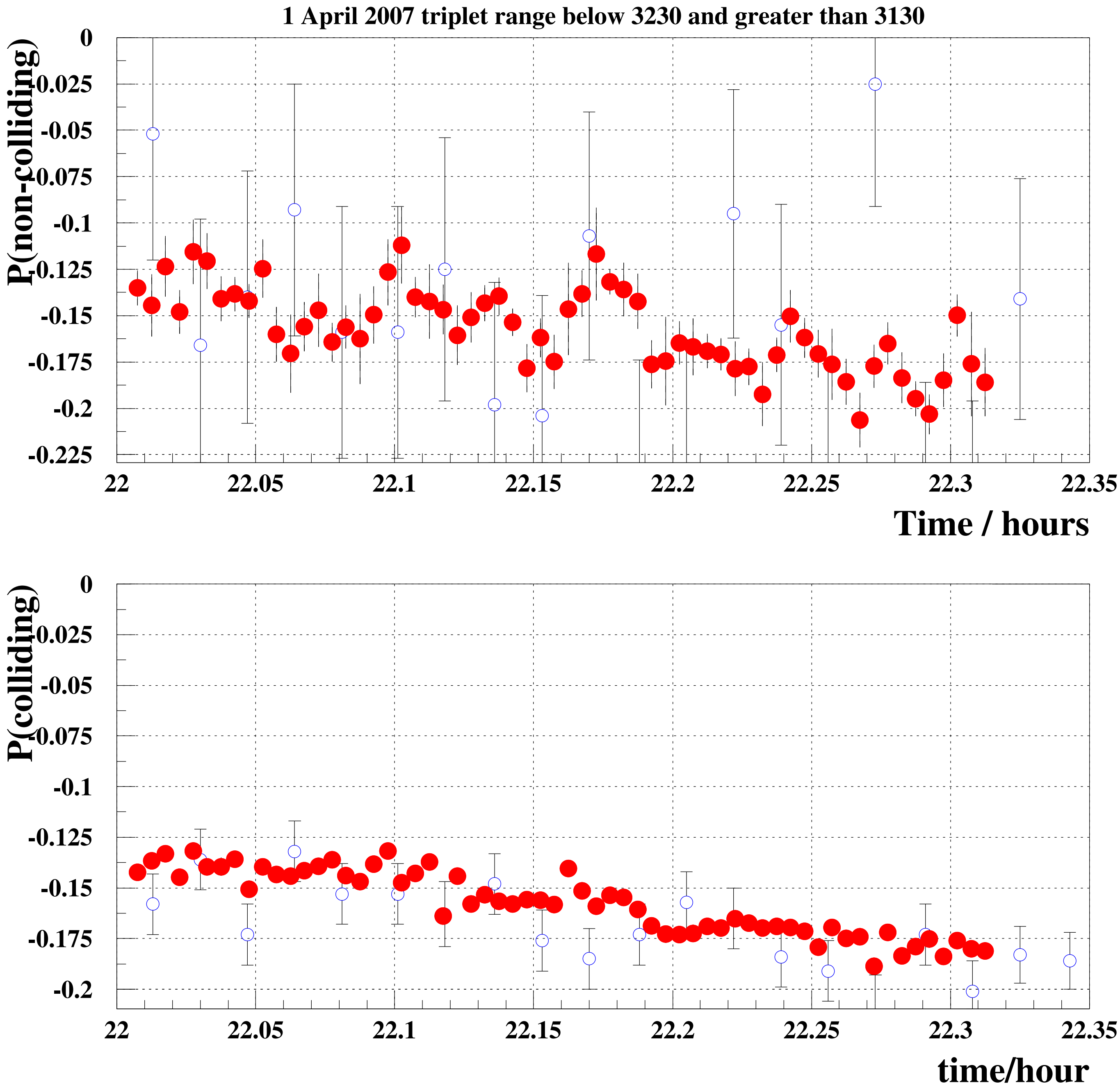

1 April 2007 triplet range below 2830 and greater than 2730
P(non-colliding)
0.02
0
-0.02
-0.04
-0.06
20.7
20.75
20.8
20.85
20.9
20.95
21
21.05
Time / hours
P(colliding)
0
-0.01
-0.02
-0.03
-0.04
-0.05
-0.06
20.7
20.75
20.8
20.85
20.9
20.95
21
21.05
time/hour

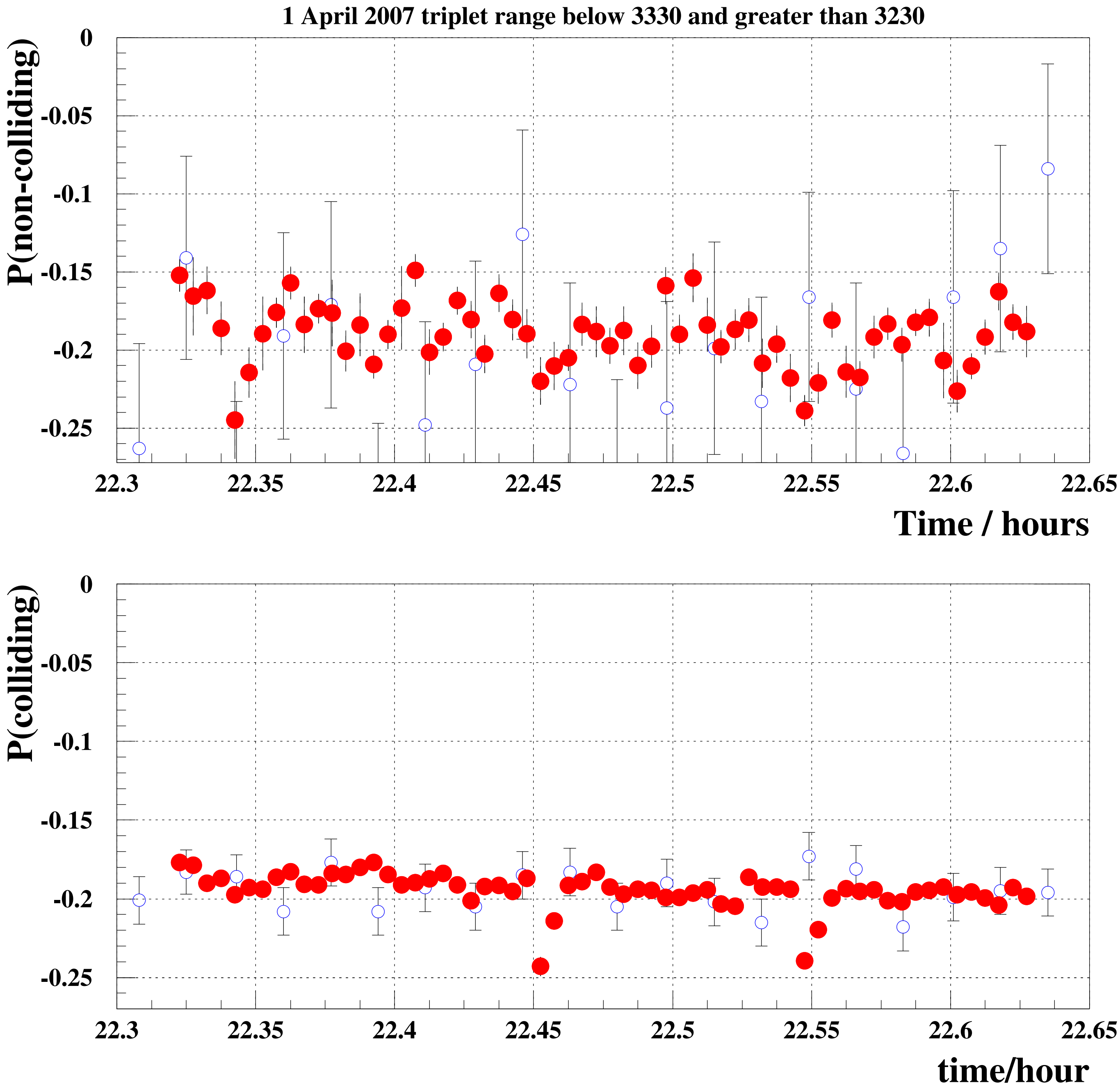


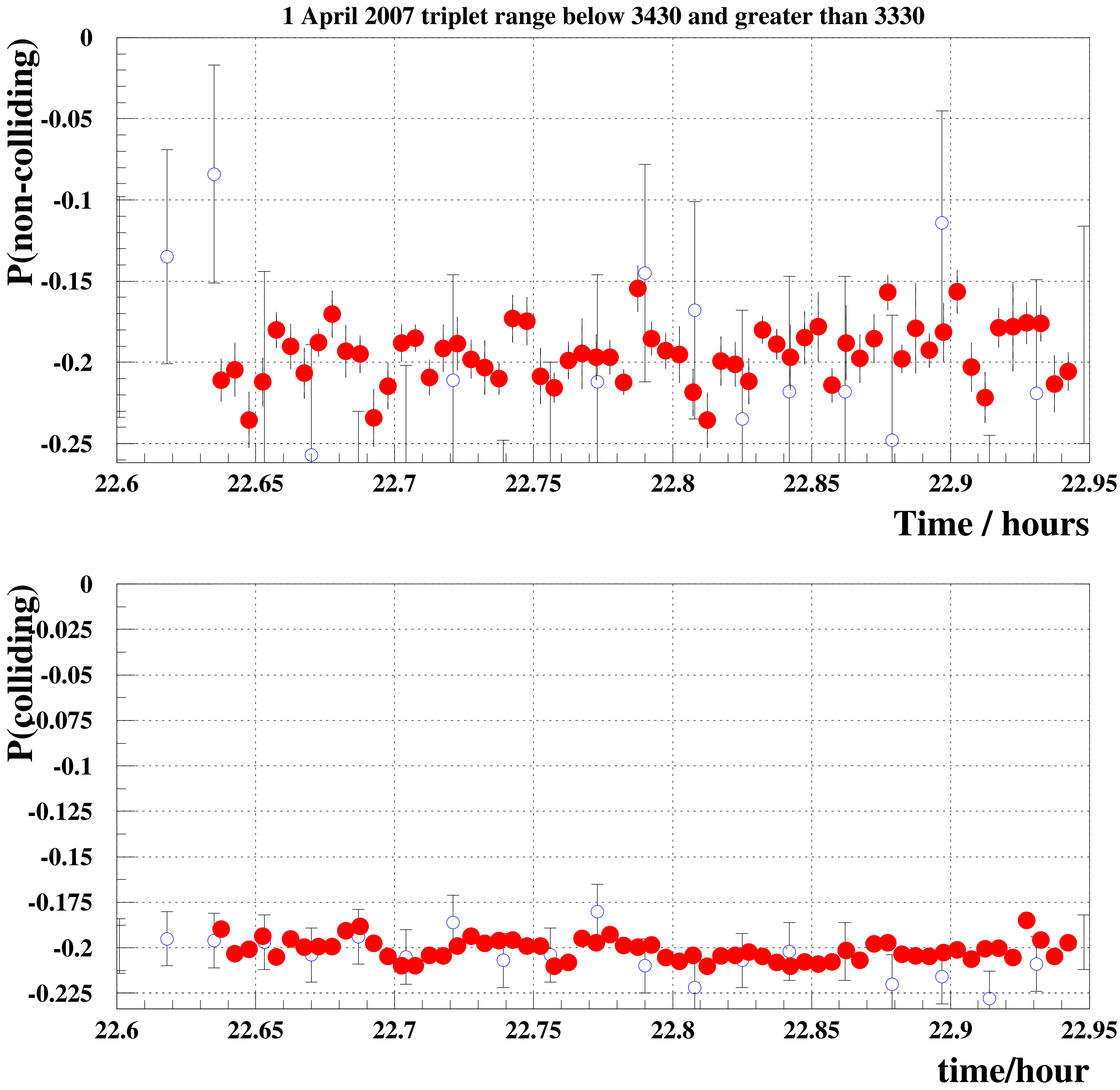
1 April 2007 triplet range below 2930 and greater than 2830
P(non-colliding)
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
21
21.05
21.1
21.15
21.2
21.25
21.3
21.35
21.4
Time / hours
P(colliding)
0
-0.02
-0.04
-0.06
-0.08
-0.1
21
21.05
21.1
21.15
21.2
21.25
21.3
21.35
21.4
time/hour

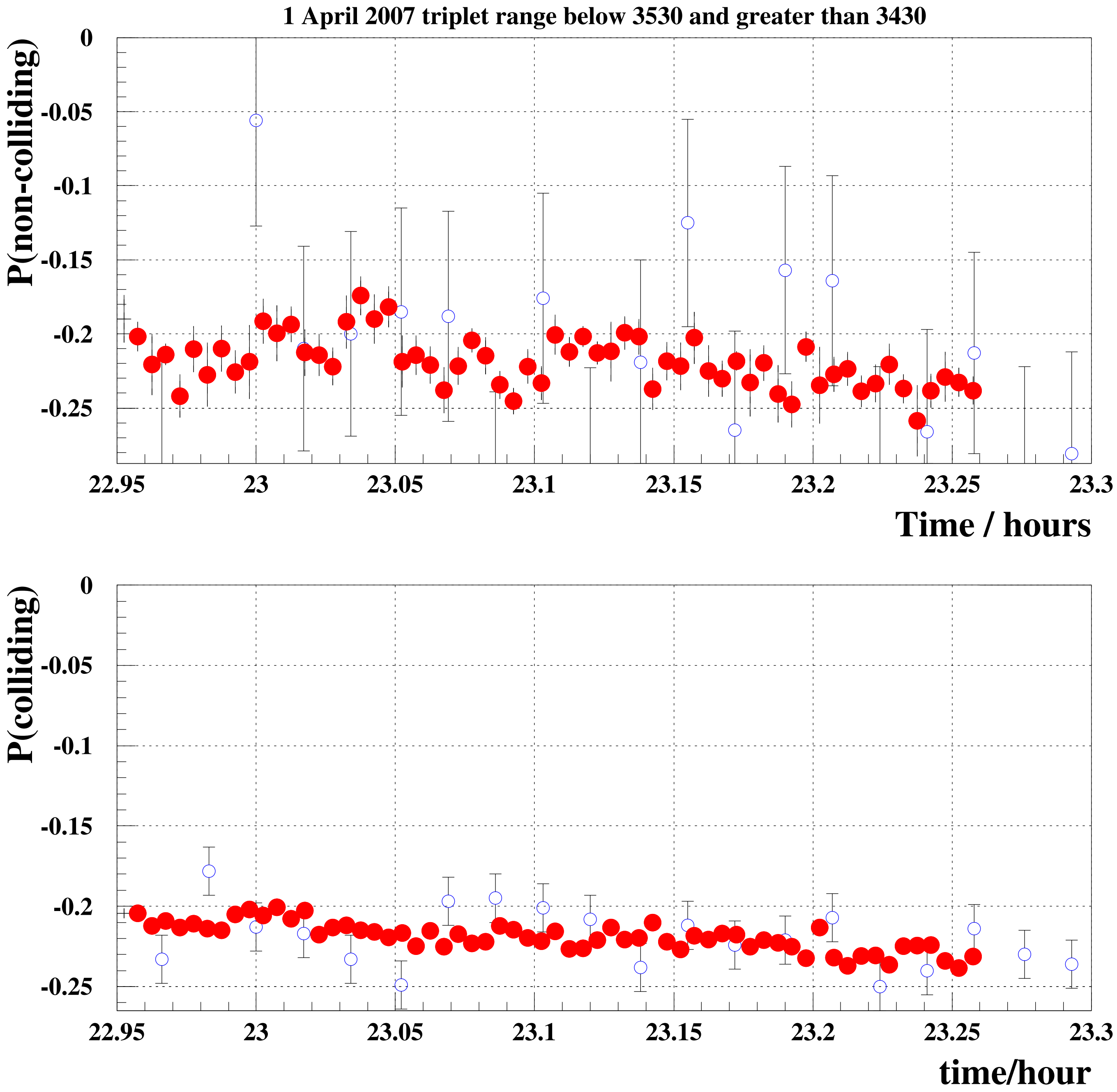

1 April 2007 triplet range below 3030 and greater than 2930
P(non-colliding)
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
-0.14
-0.16
21.35
21.4
21.45
21.5
21.55
21.6
21.65
21.7
Time / hours
P(colliding)
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
21.35
21.4
21.45
21.5
21.55
21.6
21.65
21.7
time/hour


1 April 2007 triplet range below 3130 and greater than 3030
P(non-colliding)
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
-0.14
-0.16
-0.18
21.65
21.7
21.75
21.8
21.85
21.9
21.95
22
Time / hours
P(colliding)
0
-0.02
-0.04
-0.06
-0.08
-0.1
-0.12
-0.14
-0.16
21.65
21.7
21.75
21.8
21.85
21.9
21.95
22
time/hour

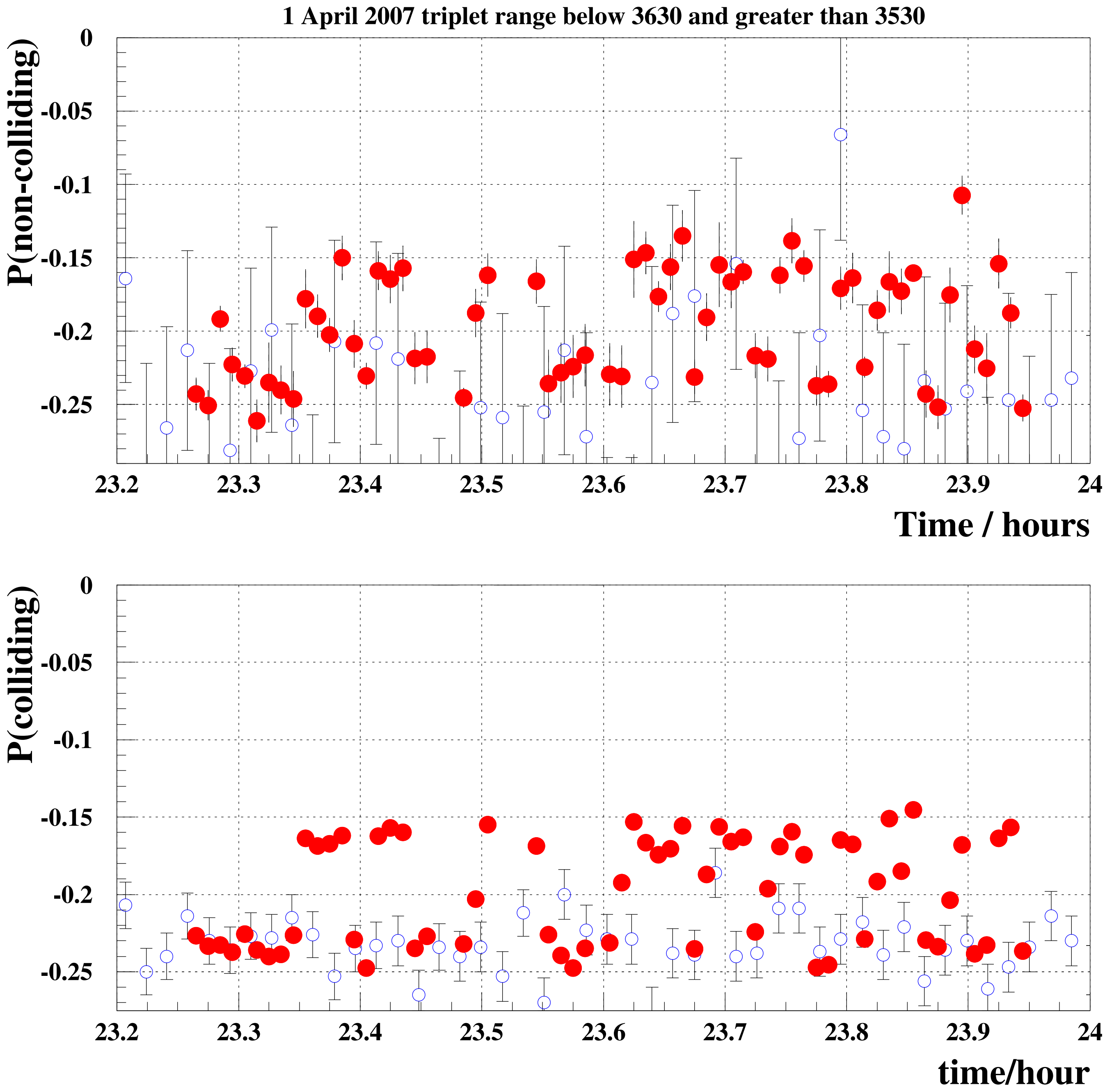

1 April 2007 triplet range below 3230 and greater than 3130
P(non-colliding)
Time / hours
P(colliding)
time/hour
0
-0.025
-0.05
-0.075
-0.1
-0.125
-0.15
-0.175
-0.2
-0.225
22
22.05
22.1
22.15
22.2
22.25
22.3
22.35

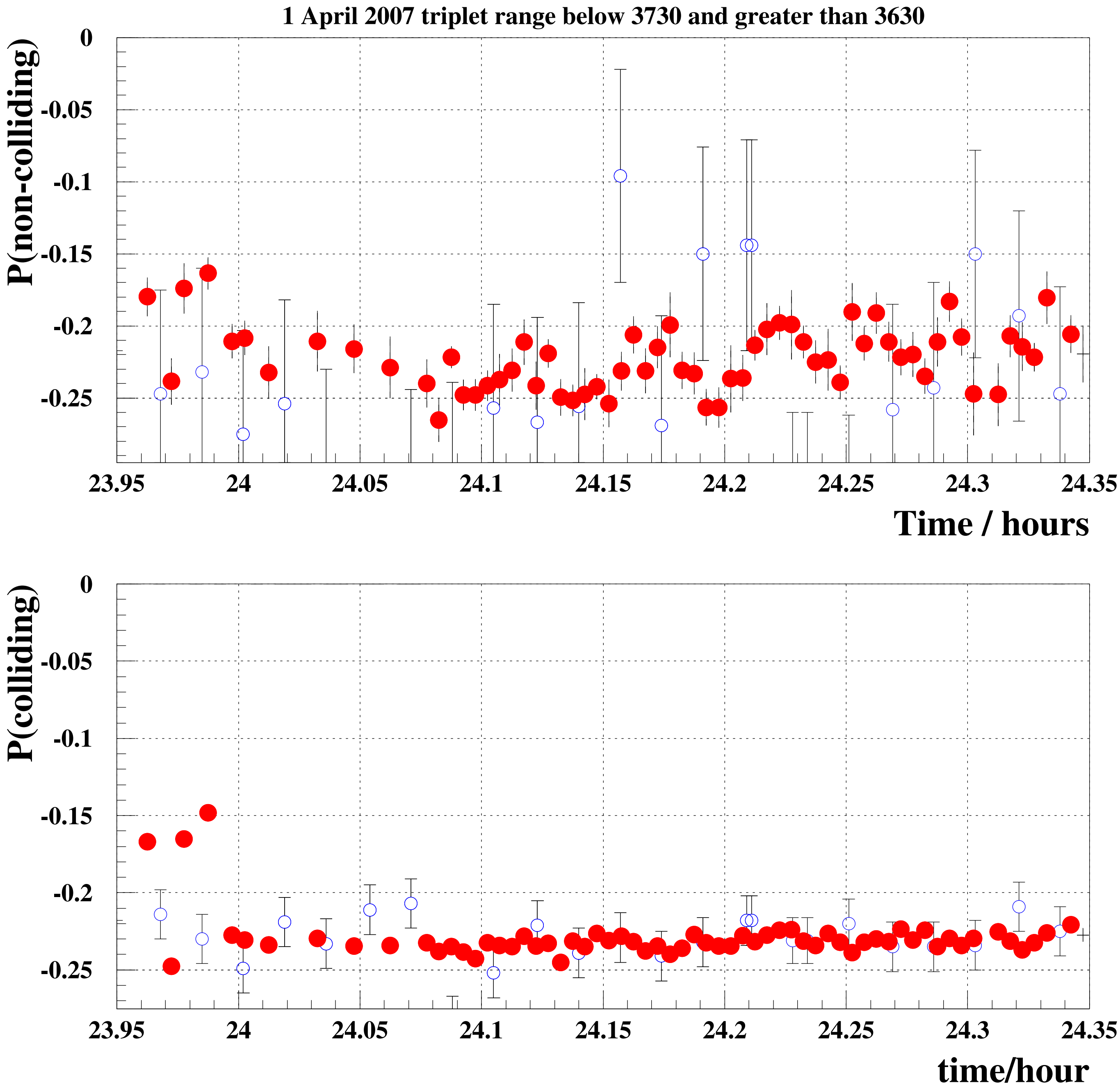

1 April 2007 triplet range below 3330 and greater than 3230
P(non-colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
22.3
22.35
22.4
22.45
22.5
22.55
22.6
22.65
Time / hours
P(colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
22.3
22.35
22.4
22.45
22.5
22.55
22.6
22.65
time/hour

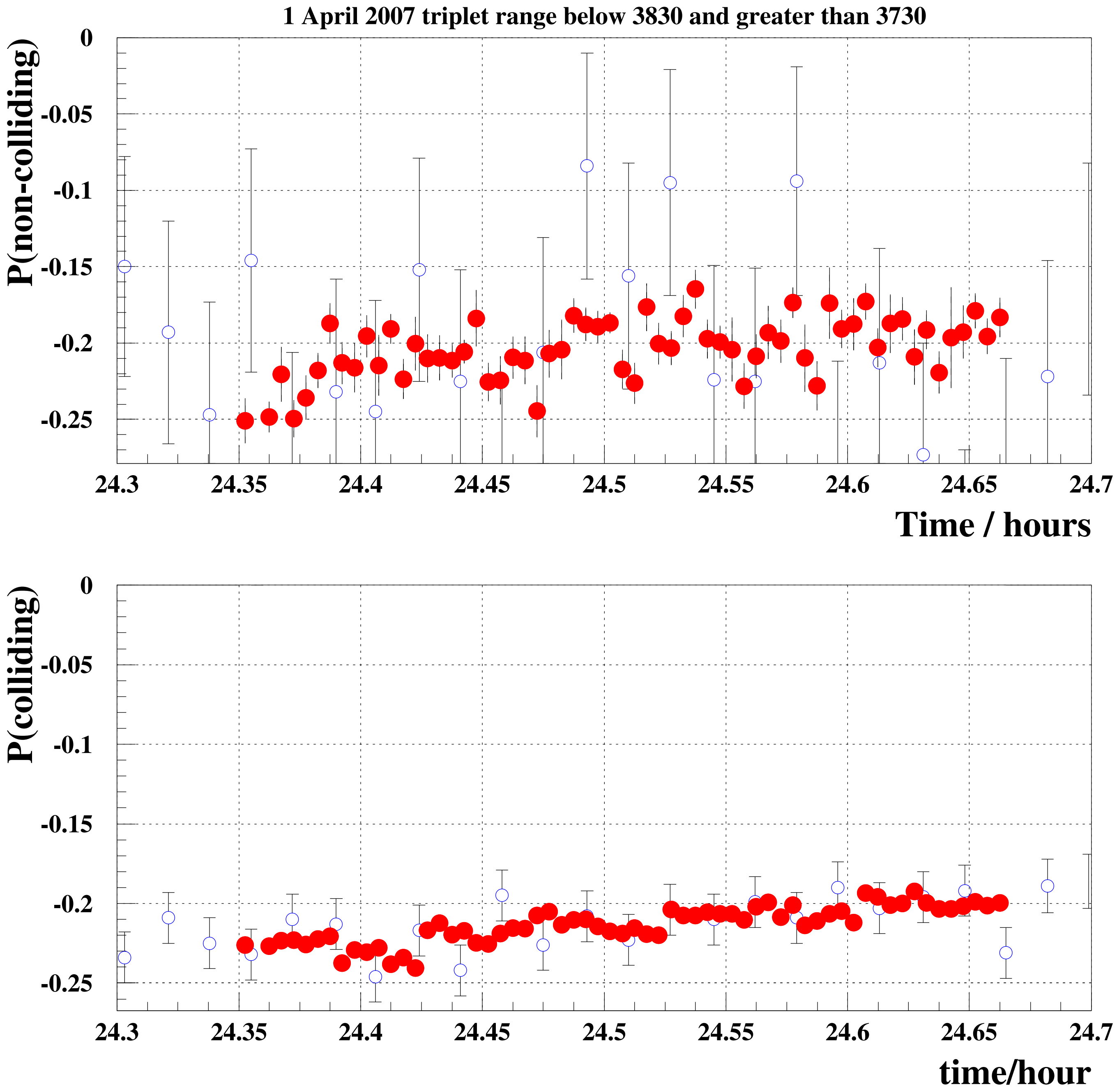

1 April 2007 triplet range below 3430 and greater than 3330
P(non-colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
22.6
22.65
22.7
22.75
22.8
22.85
22.9
22.95
Time / hours
P(colliding)
0
-0.025
-0.05
-0.075
-0.1
-0.125
-0.15
-0.175
-0.2
-0.225
22.6
22.65
22.7
22.75
22.8
22.85
22.9
22.95
time/hour



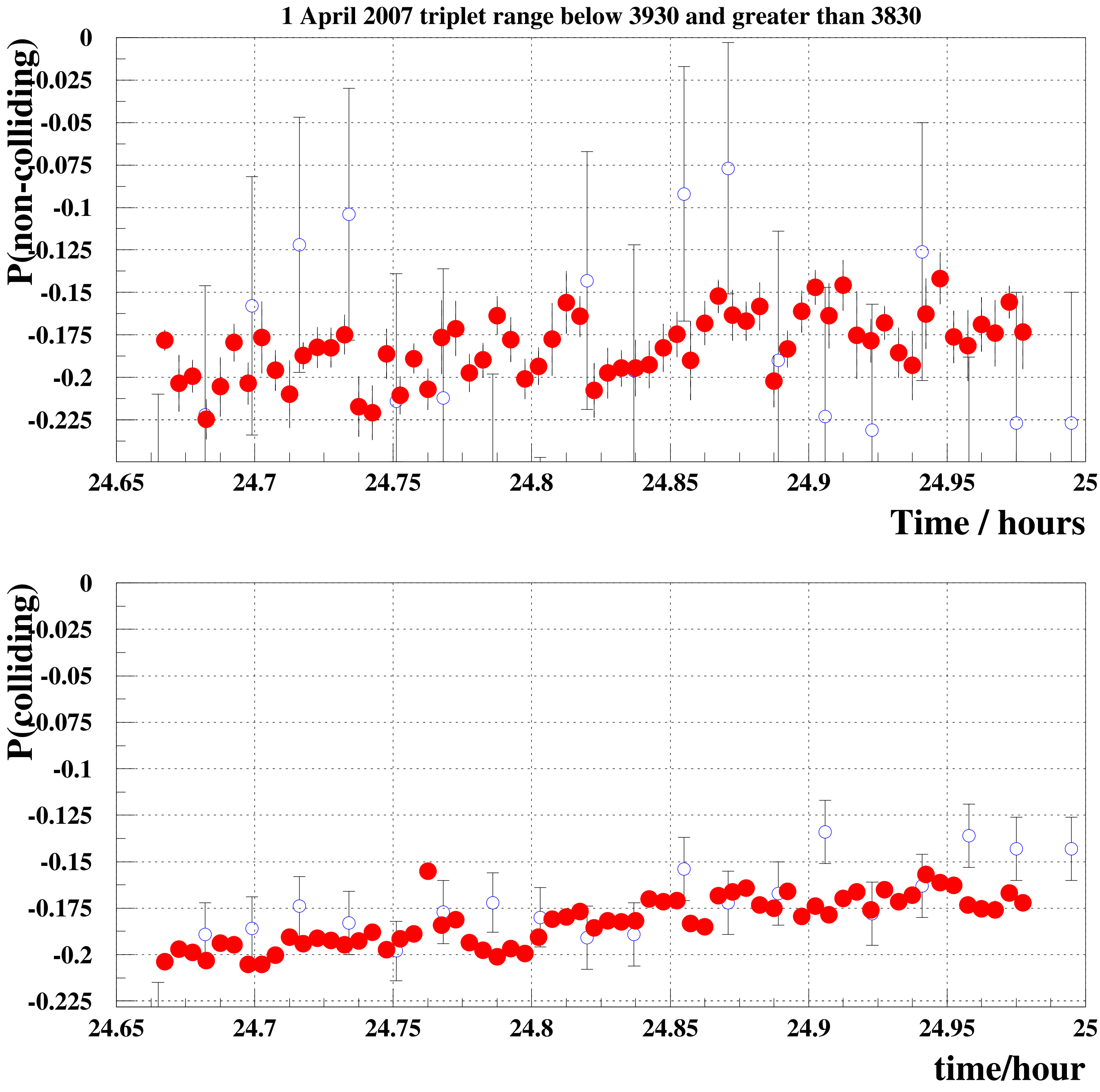
1 April 2007 triplet range below 3530 and greater than 3430
P(non-colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
22.95
23
23.05
23.1
23.15
23.2
23.25
23.3
Time / hours
P(colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
22.95
23
23.05
23.1
23.15
23.2
23.25
23.3
time/hour


1 April 2007 triplet range below 3630 and greater than 3530
P(non-colliding)
Time / hours
P(colliding)
time/hour
0
-0.05
-0.1
-0.15
-0.2
-0.25
23.2
23.3
23.4
23.5
23.6
23.7
23.8
23.9
24

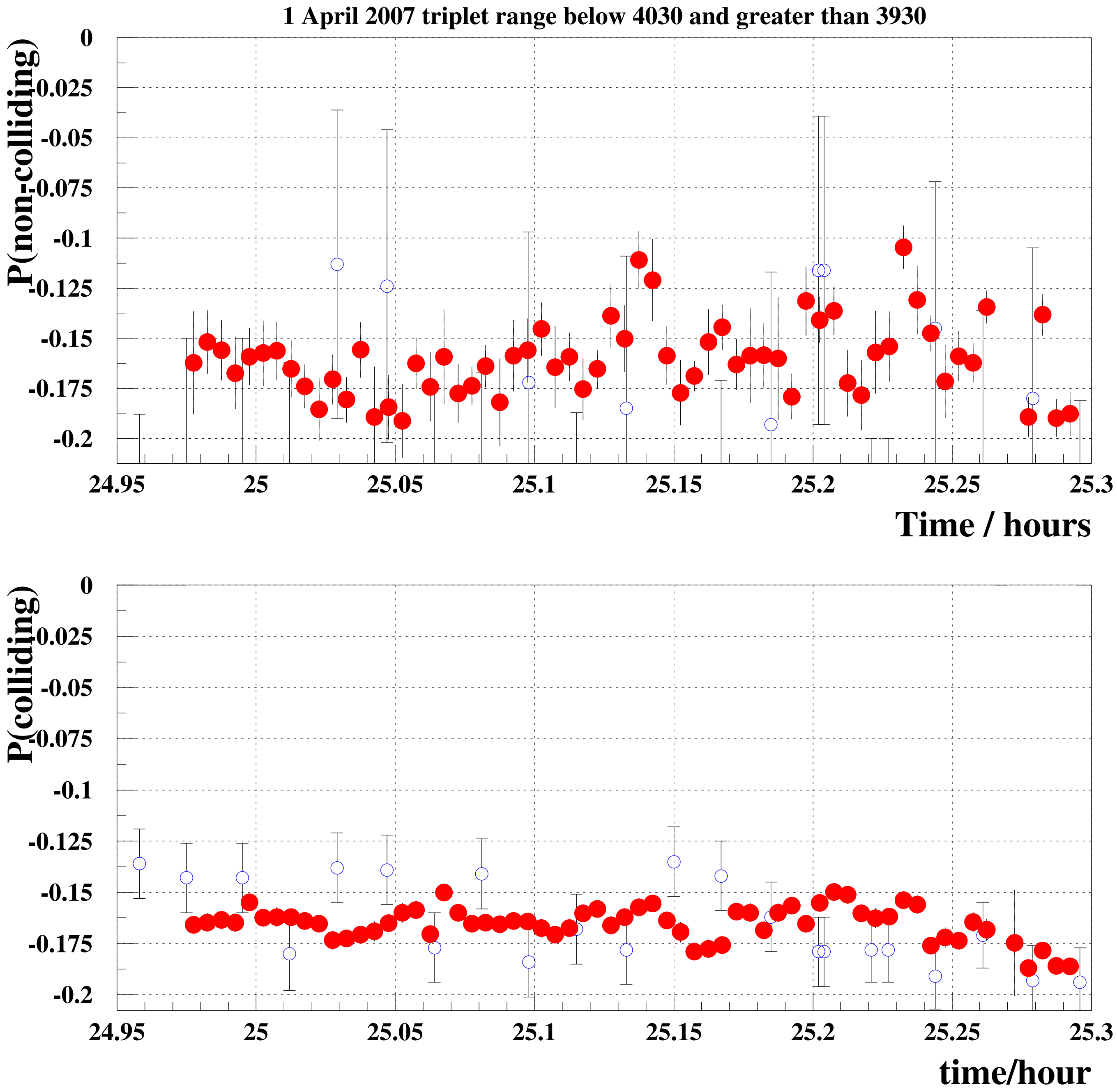

1 April 2007 triplet range below 3730 and greater than 3630
P(non-colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
23.95
24
24.05
24.1
24.15
24.2
24.25
24.3
24.35
Time / hours
P(colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
23.95
24
24.05
24.1
24.15
24.2
24.25
24.3
24.35
time/hour



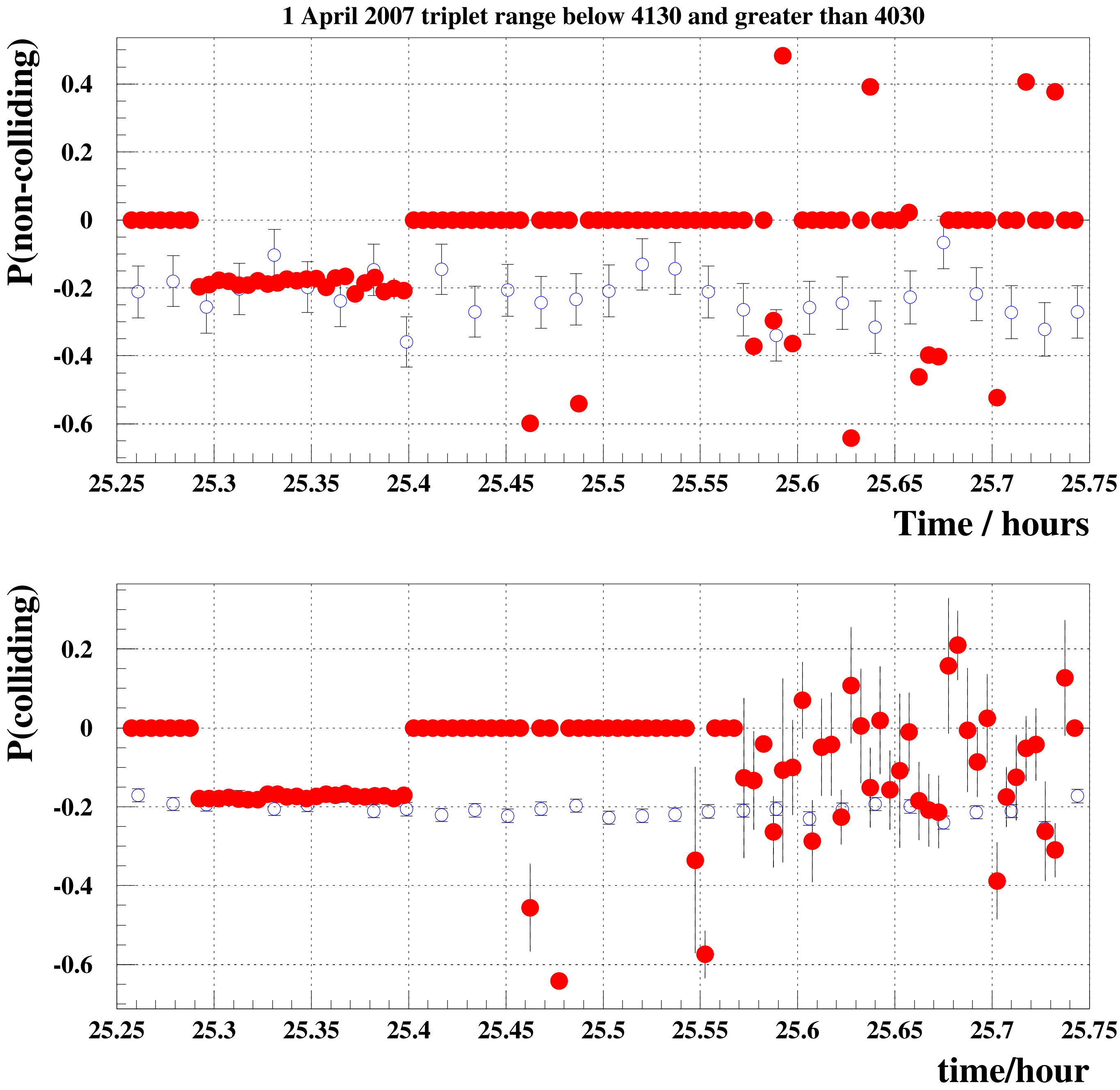
1 April 2007 triplet range below 3830 and greater than 3730
P(non-colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
24.3
24.35
24.4
24.45
24.5
24.55
24.6
24.65
24.7
Time / hours
P(colliding)
0
-0.05
-0.1
-0.15
-0.2
-0.25
24.3
24.35
24.4
24.45
24.5
24.55
24.6
24.65
24.7
time/hour



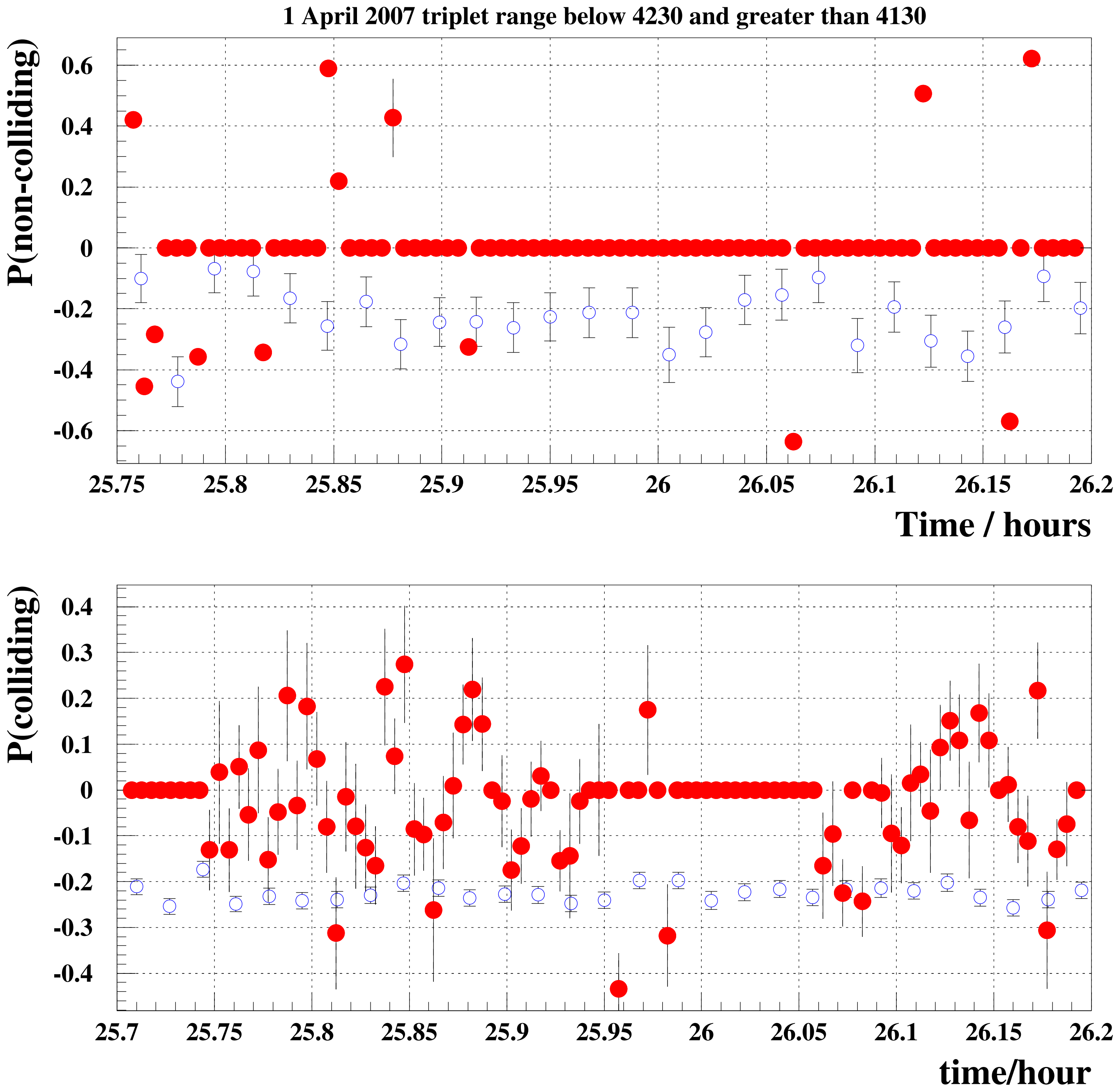
1 April 2007 triplet range below 3930 and greater than 3830
P(non-colliding)
0
-0.025
-0.05
-0.075
-0.1
-0.125
-0.15
-0.175
-0.2
-0.225
24.65
24.7
24.75
24.8
24.85
24.9
24.95
25
Time / hours
P(colliding)
time/hour



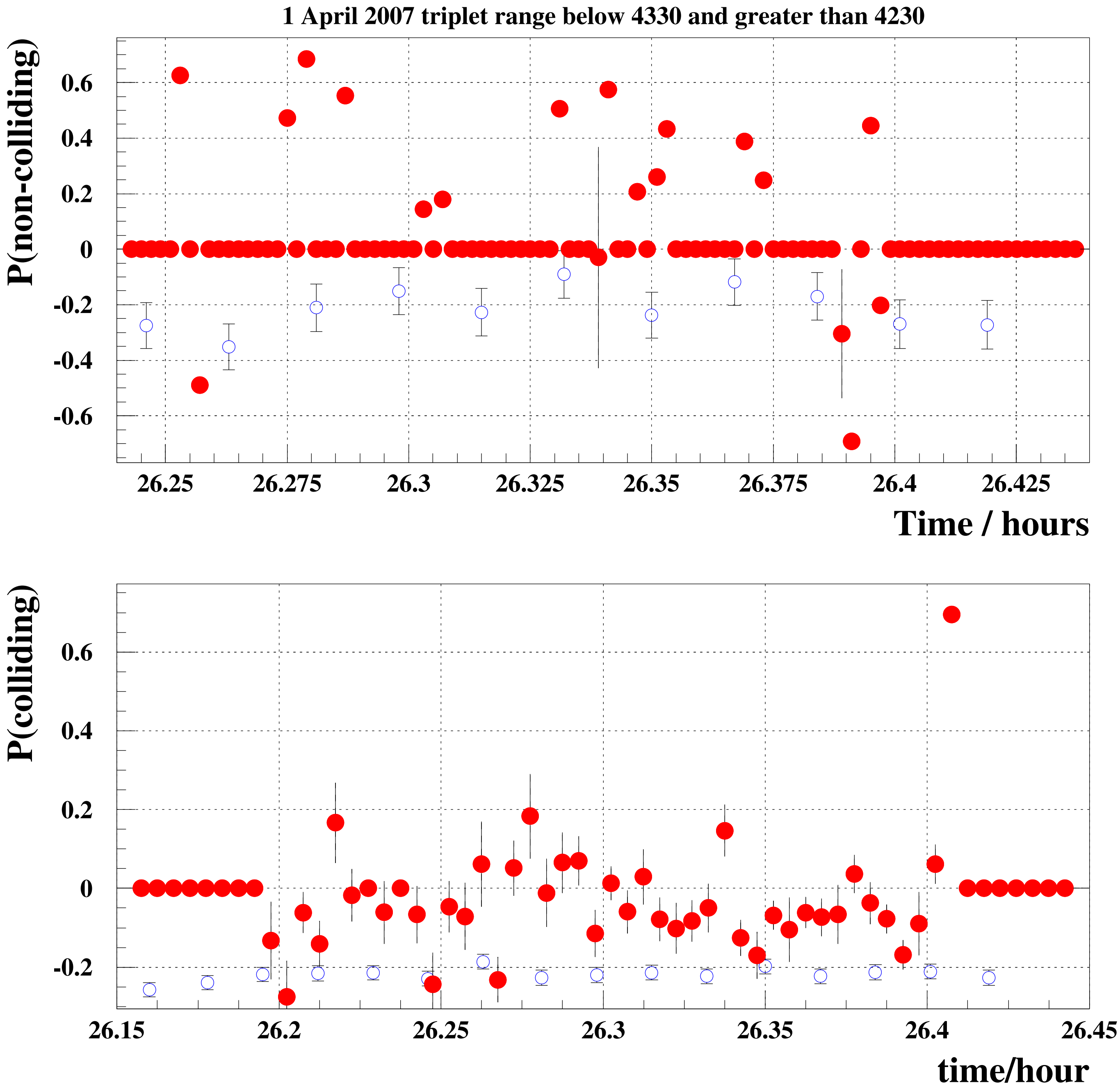
1 April 2007 triplet range below 4030 and greater than 3930
P(non-colliding)
0
-0.025
-0.05
-0.075
-0.1
-0.125
-0.15
-0.175
-0.2
24.95
25
25.05
25.1
25.15
25.2
25.25
25.3
Time / hours
P(colliding)
0
-0.025
-0.05
-0.075
-0.1
-0.125
-0.15
-0.175
-0.2
24.95
25
25.05
25.1
25.15
25.2
25.25
25.3
time/hour



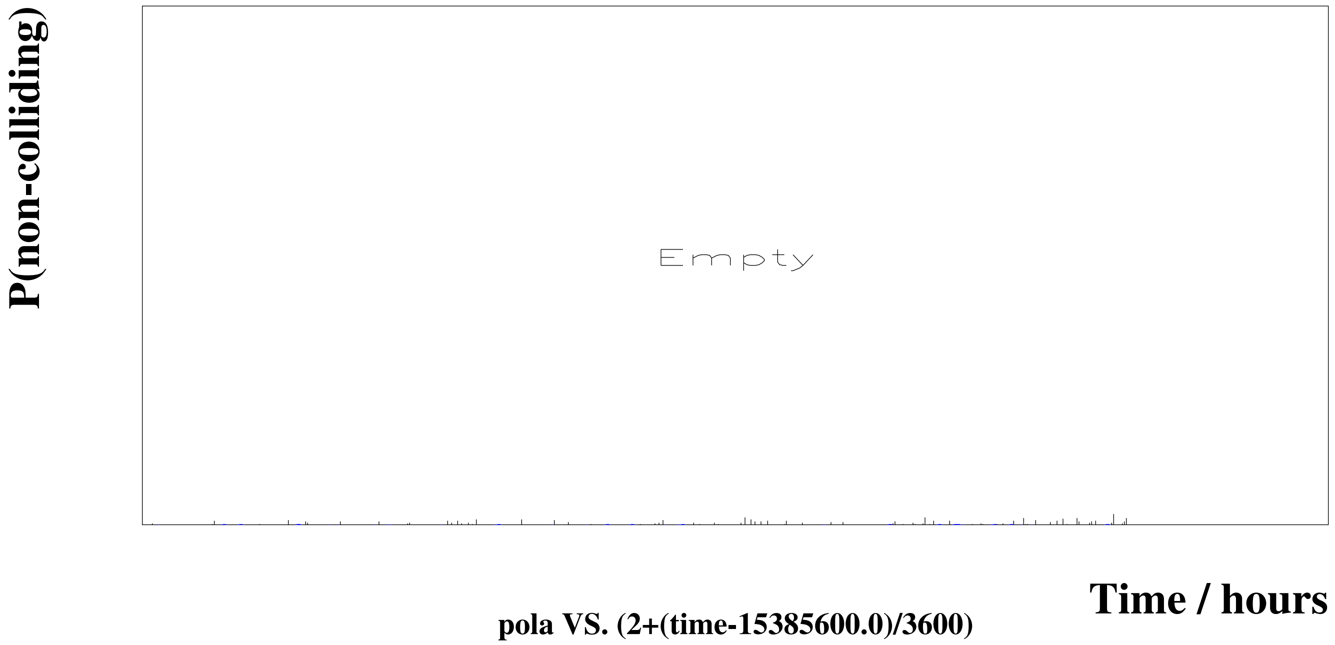
1 April 2007 triplet range below 4130 and greater than 4030
P(non-colliding)
0.4
0.2
0
-0.2
-0.4
-0.6
25.25
25.3
25.35
25.4
25.45
25.5
25.55
25.6
25.65
25.7
25.75
Time / hours
P(colliding)
0.2
0
-0.2
-0.4
-0.6
25.25
25.3
25.35
25.4
25.45
25.5
25.55
25.6
25.65
25.7
25.75
time/hour



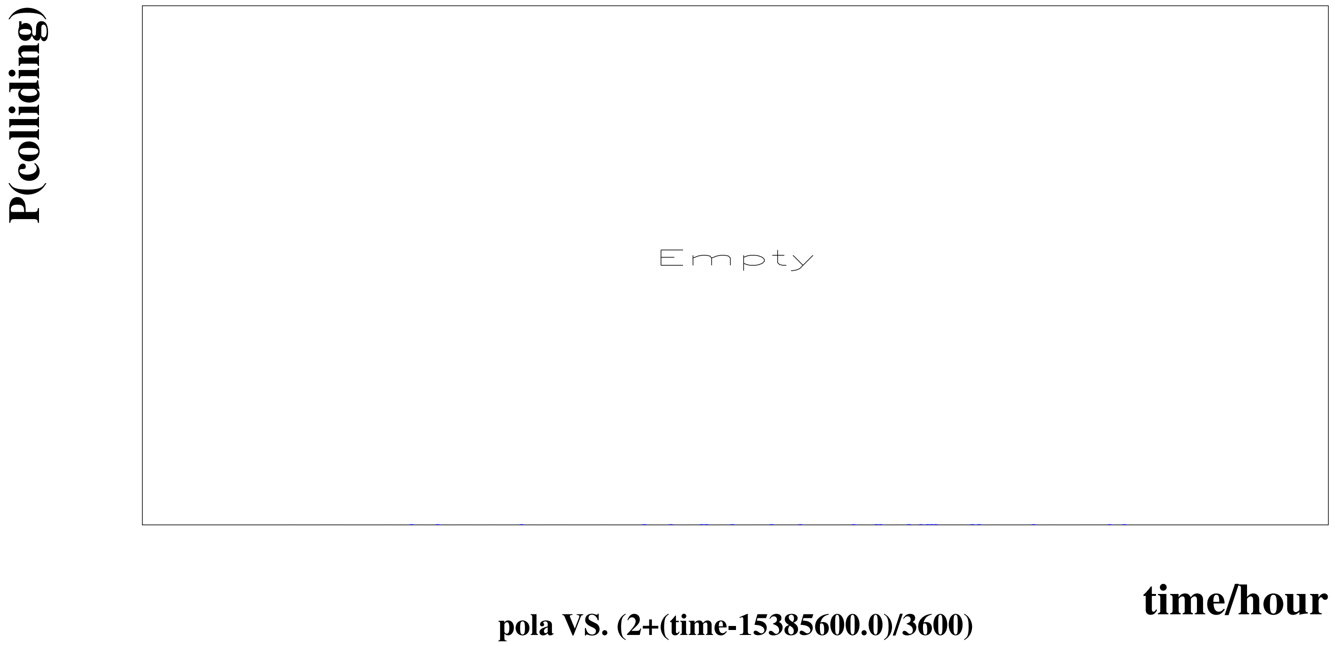
1 April 2007 triplet range below 4230 and greater than 4130
P(non-colliding)
Time / hours
P(colliding)
time/hour


1 April 2007 triplet range below 4330 and greater than 4230
P(non-colliding)
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
26.25
26.275
26.3
26.325
26.35
26.375
26.4
26.425
Time / hours
P(colliding)
0.6
0.4
0.2
0
-0.2
26.15
26.2
26.25
26.3
26.35
26.4
26.45
time/hour

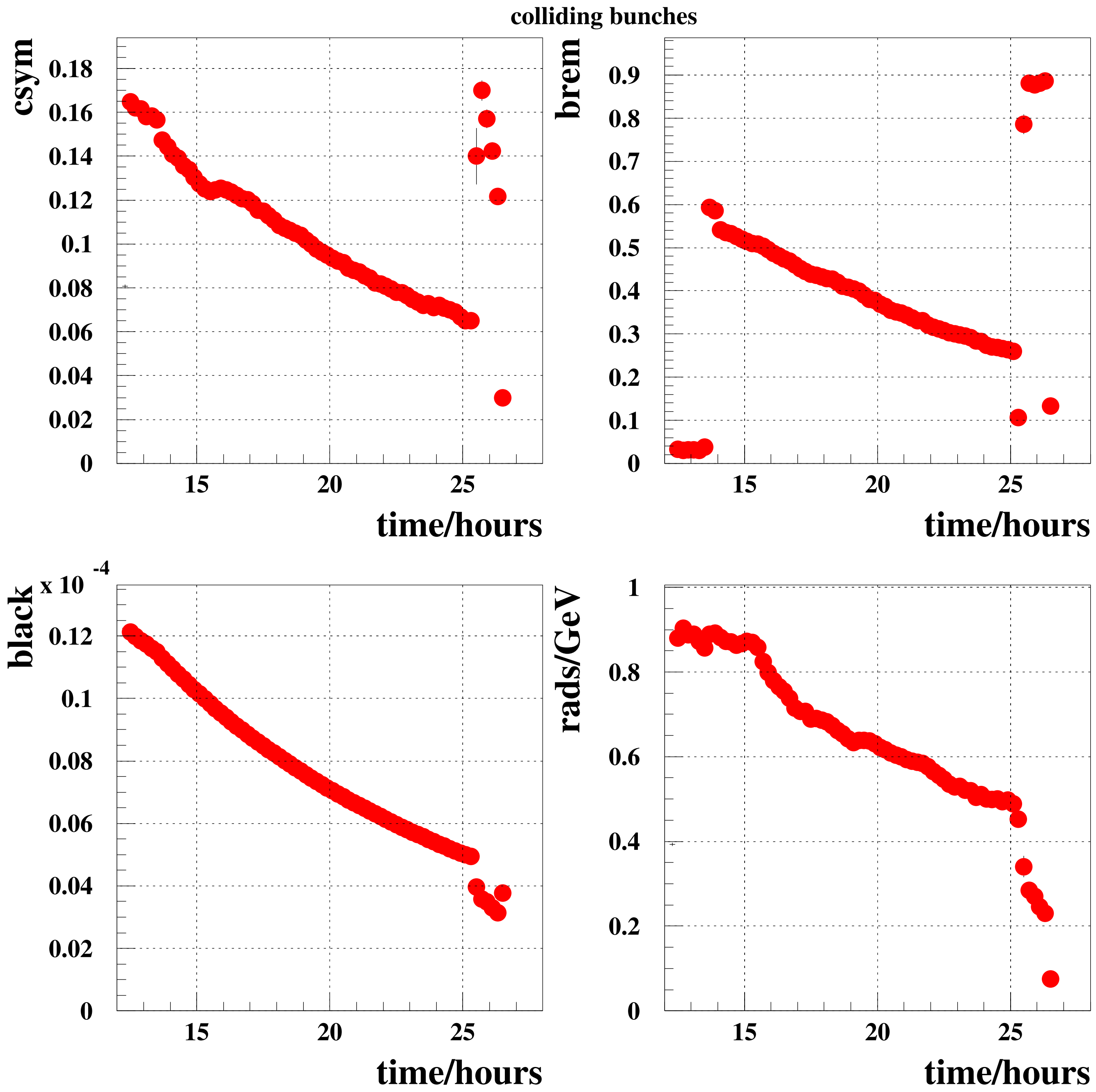
1 April 2007 triplet range below 4430 and greater than 4330

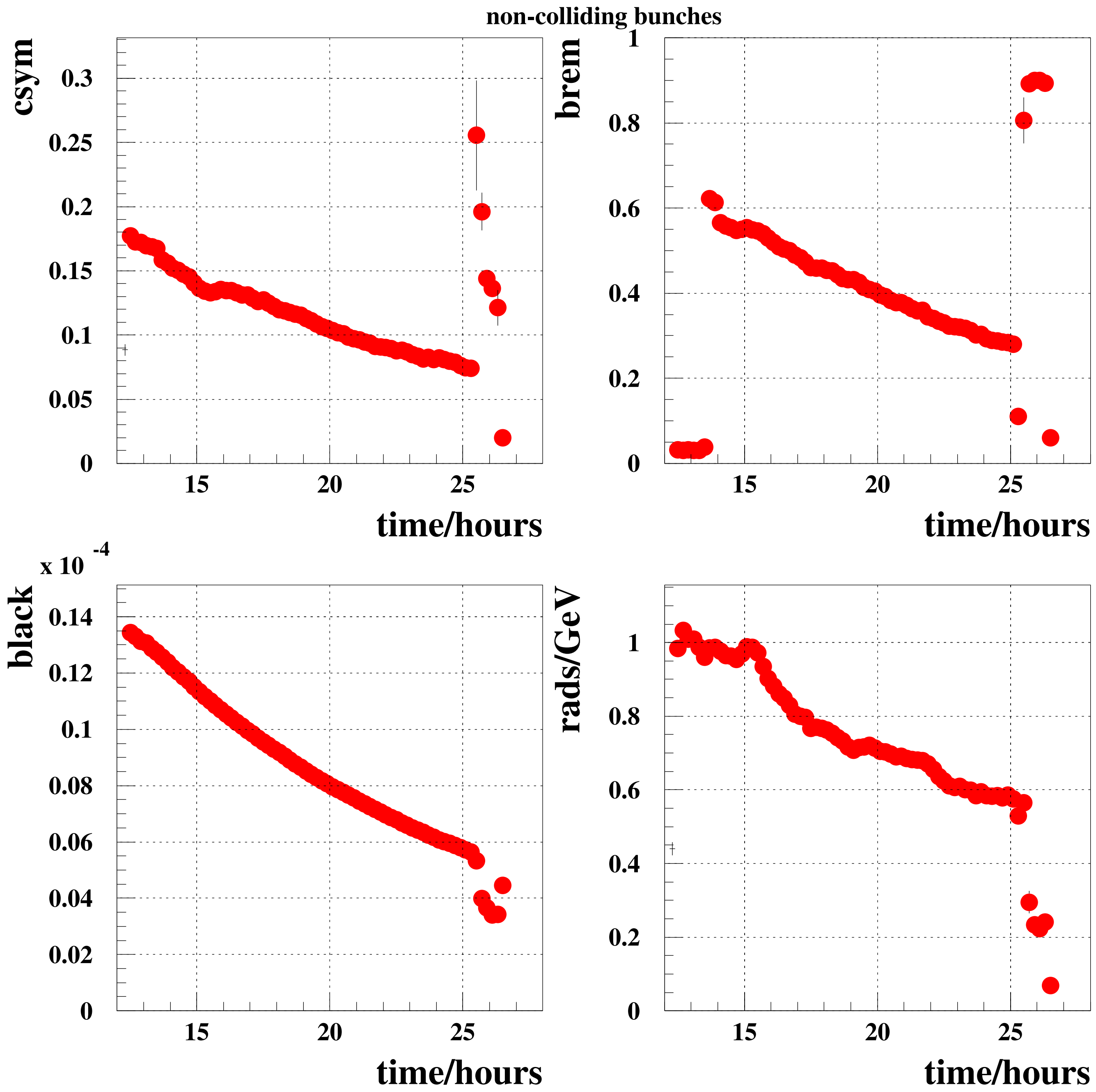


pola VS. (2+(time-15385600.0)/3600)

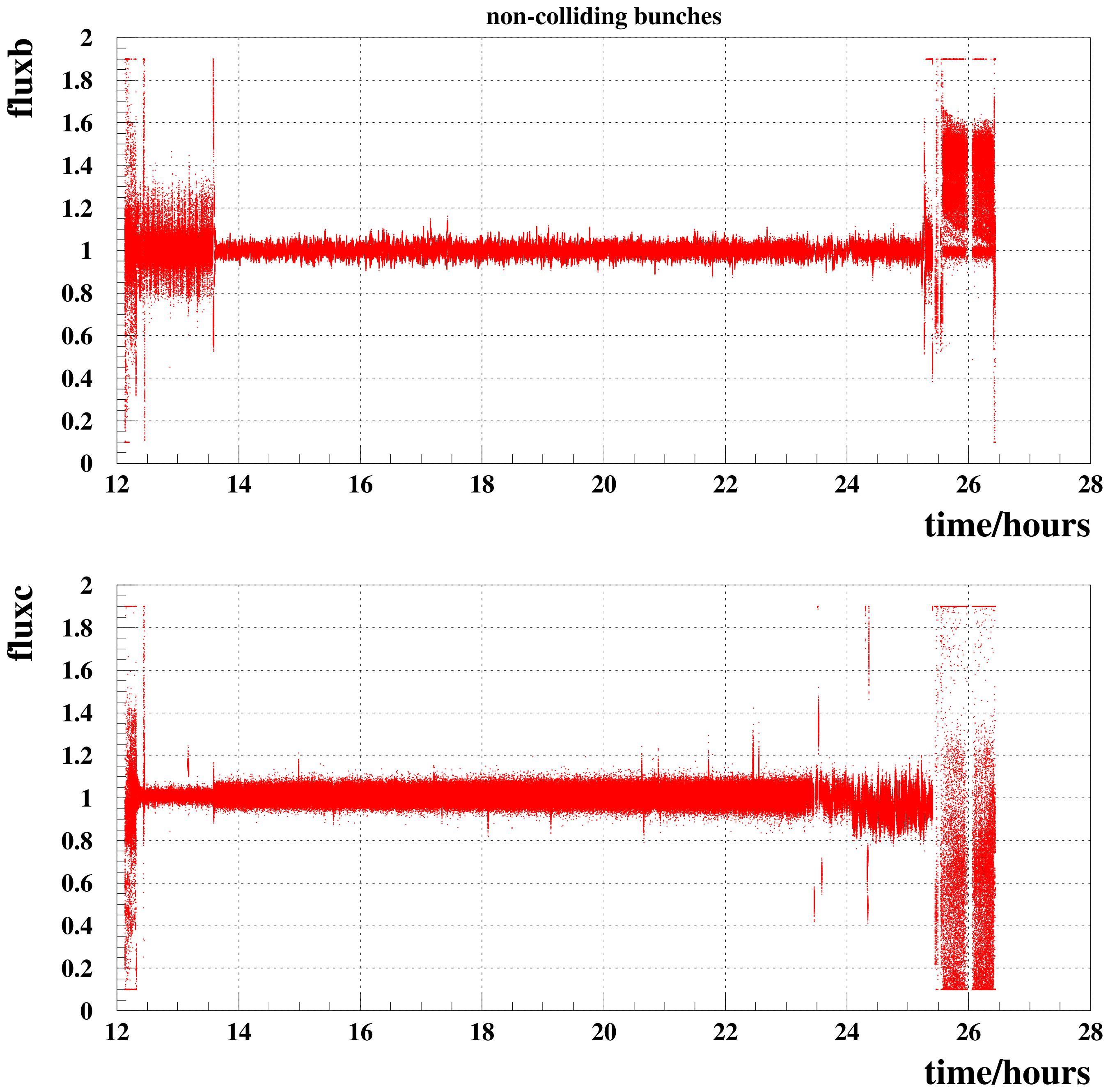


pola VS. (2+(time-15385600.0)/3600)

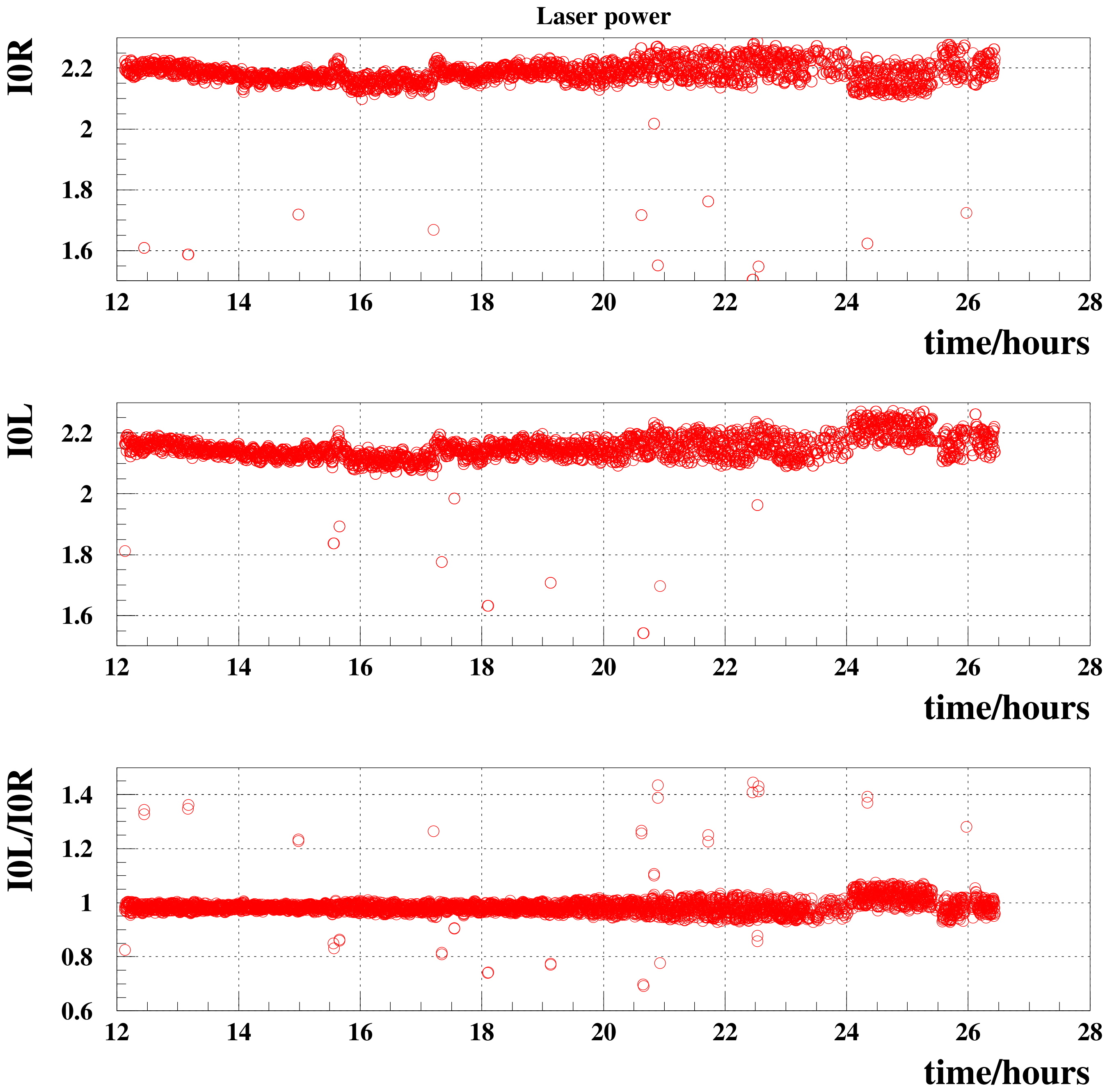

colliding bunches
csym
brem
black
x 10
-4
rads/GeV
time/hours
time/hours
time/hours
time/hours
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
0.2
0.4
0.6
0.8
1
15
20
25



non-colliding bunches
csym
0.3
0.25
0.2
0.15
0.1
0.05
0
15
20
25
time/hours
brem
1
0.8
0.6
0.4
0.2
0
15
20
25
time/hours
x 10 -4
black
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
15
20
25
time/hours
rads/GeV
1
0.8
0.6
0.4
0.2
0
15
20
25
time/hours



non-colliding bunches
fluxb
time/hours
fluxc
time/hours
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
12
14
16
18
20
22
24
26
28



Laser power
I0R
2.2
2
1.8
1.6
12
14
16
18
20
22
24
26
28
time/hours
I0L
2.2
2
1.8
1.6
12
14
16
18
20
22
24
26
28
time/hours
I0L/I0R
1.4
1.2
1
0.8
0.6
12
14
16
18
20
22
24
26
28
time/hours