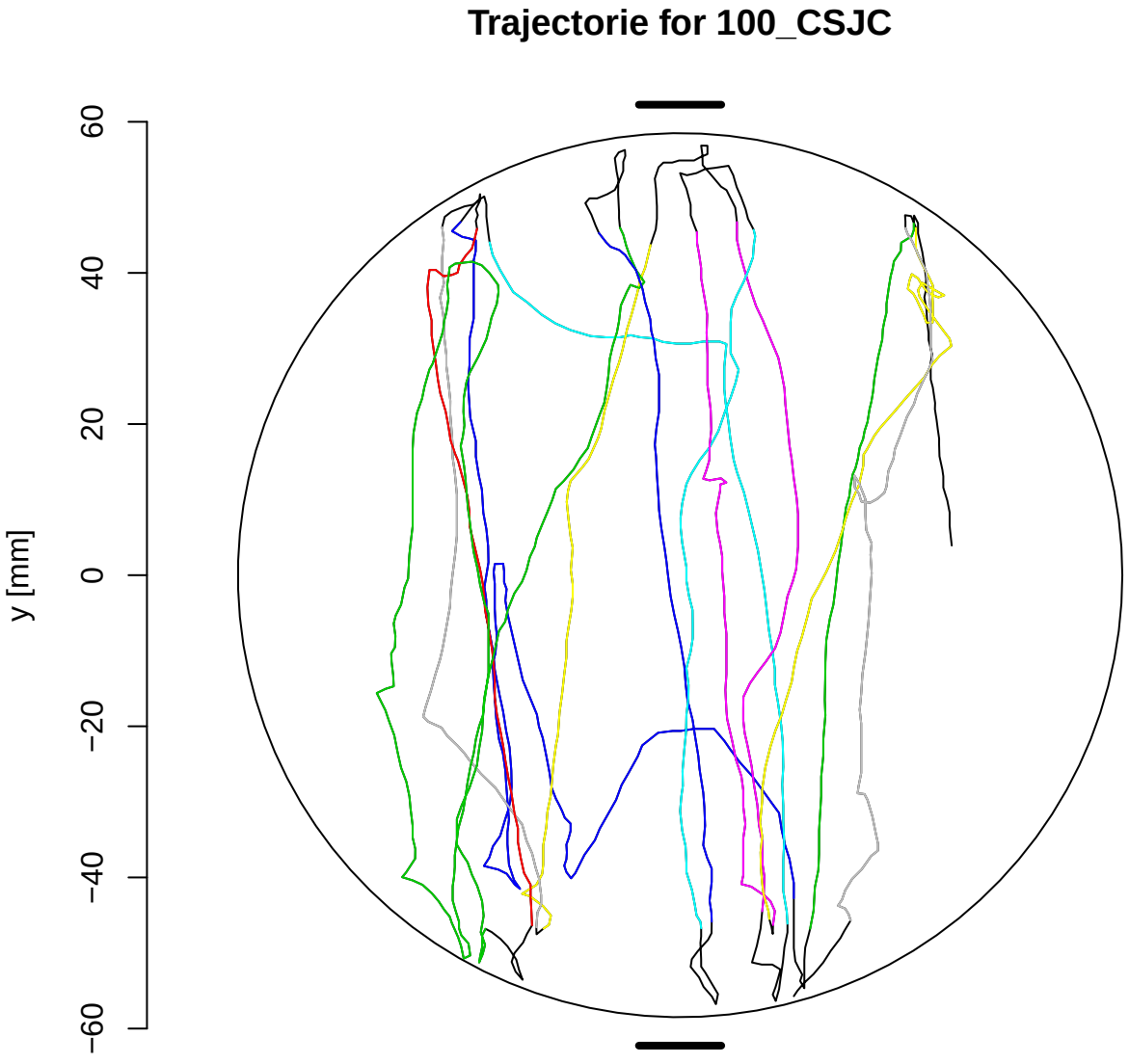
Trajectorie for 100_CSJC
y [mm]
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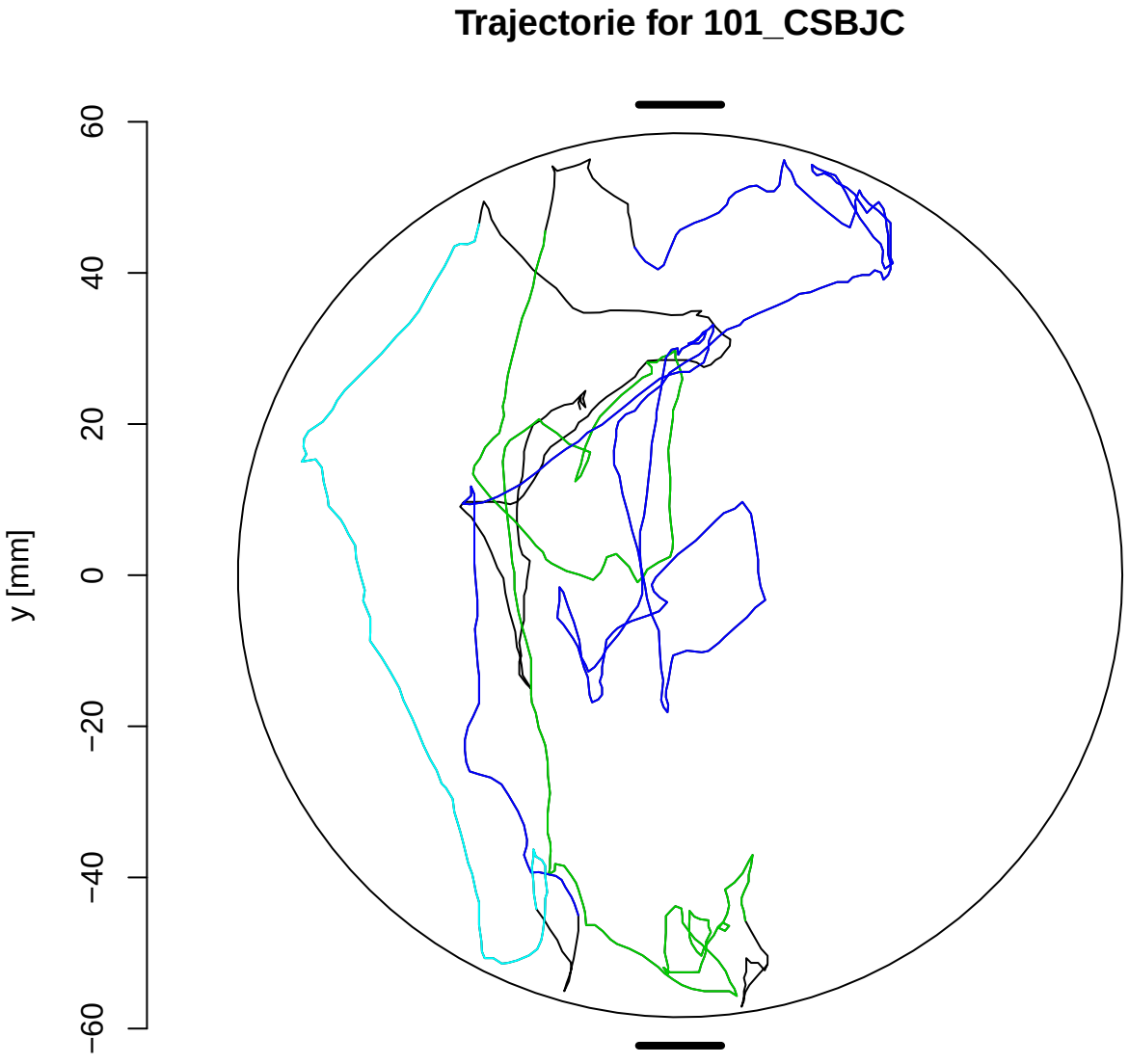
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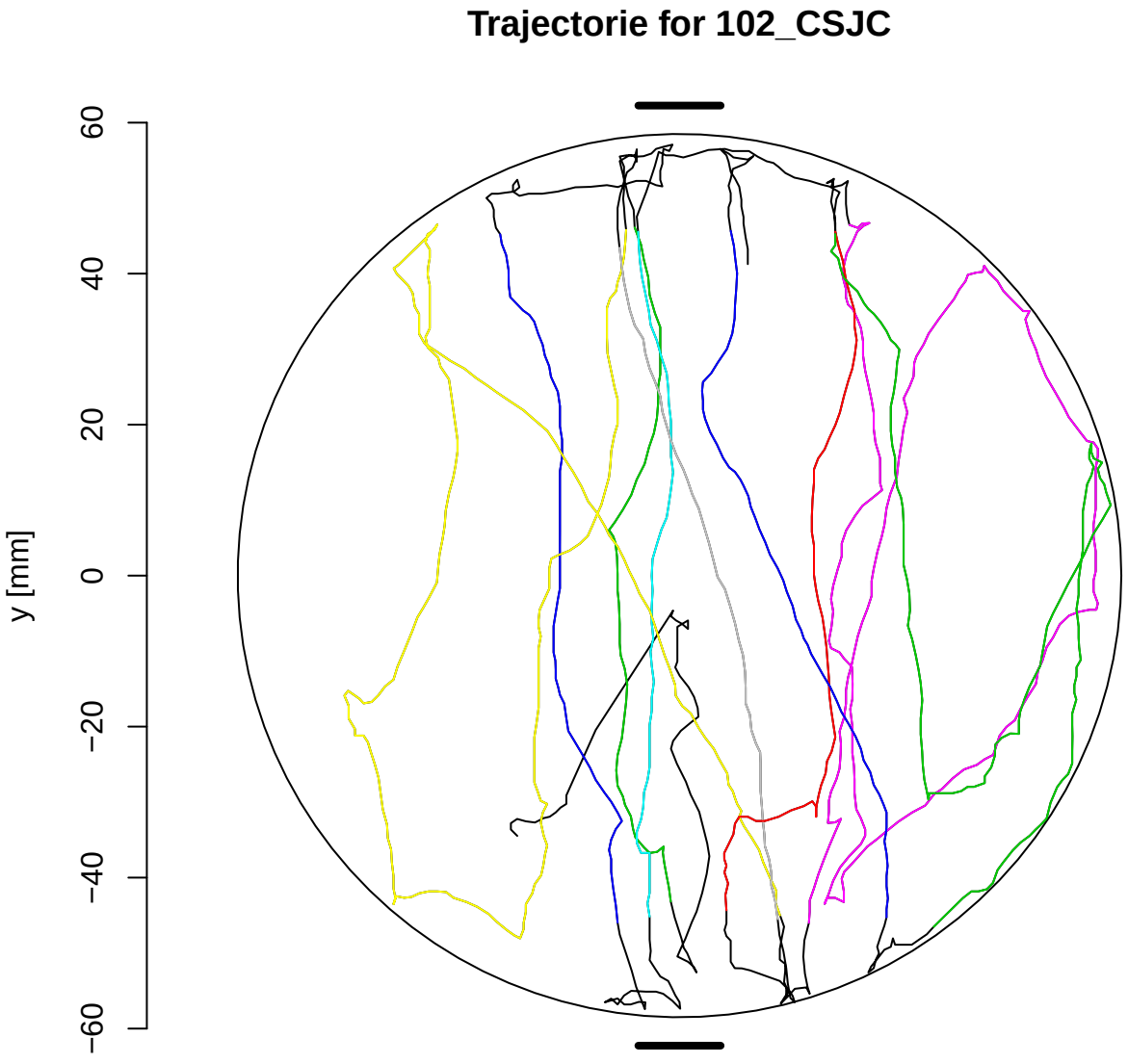
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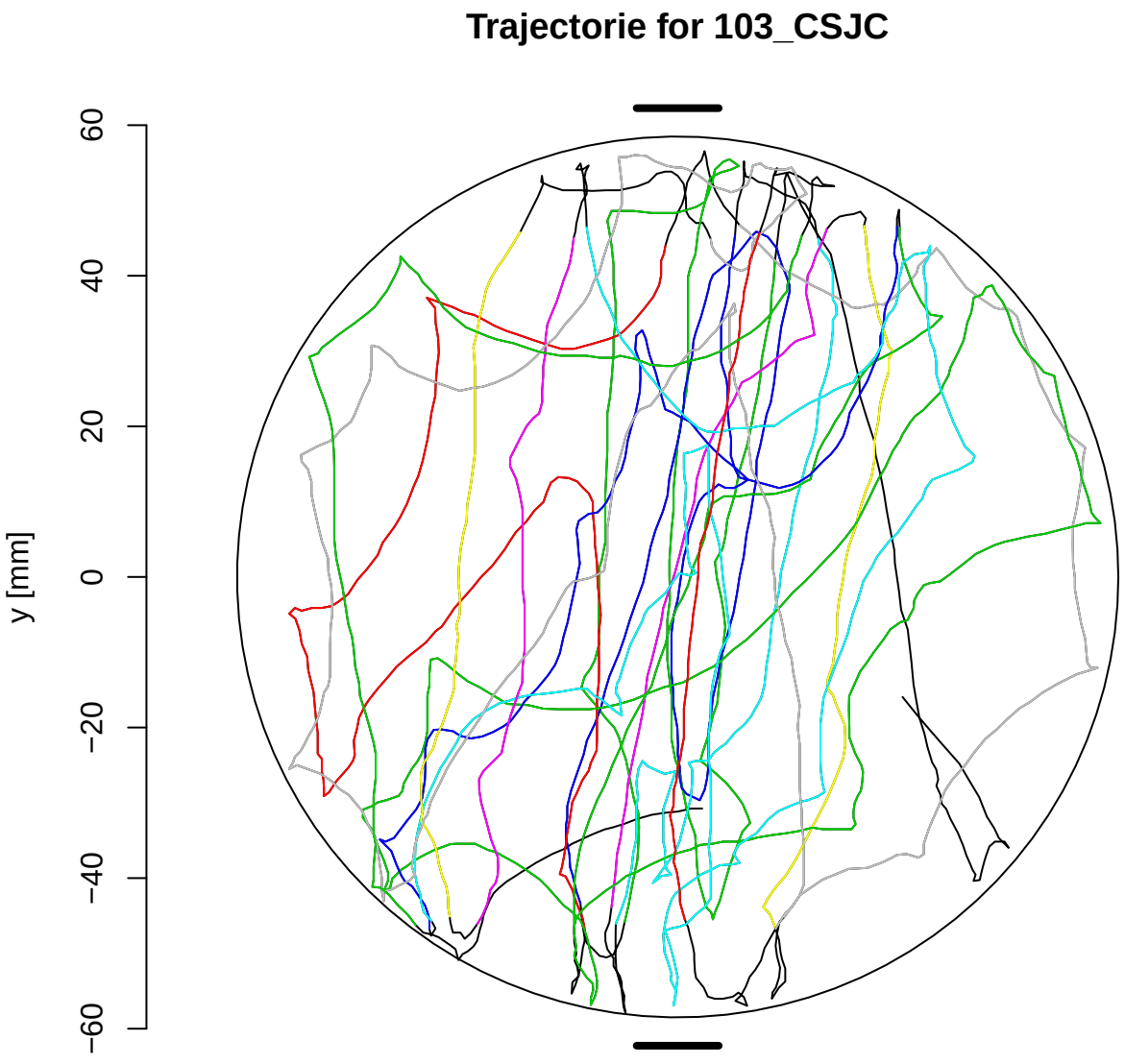
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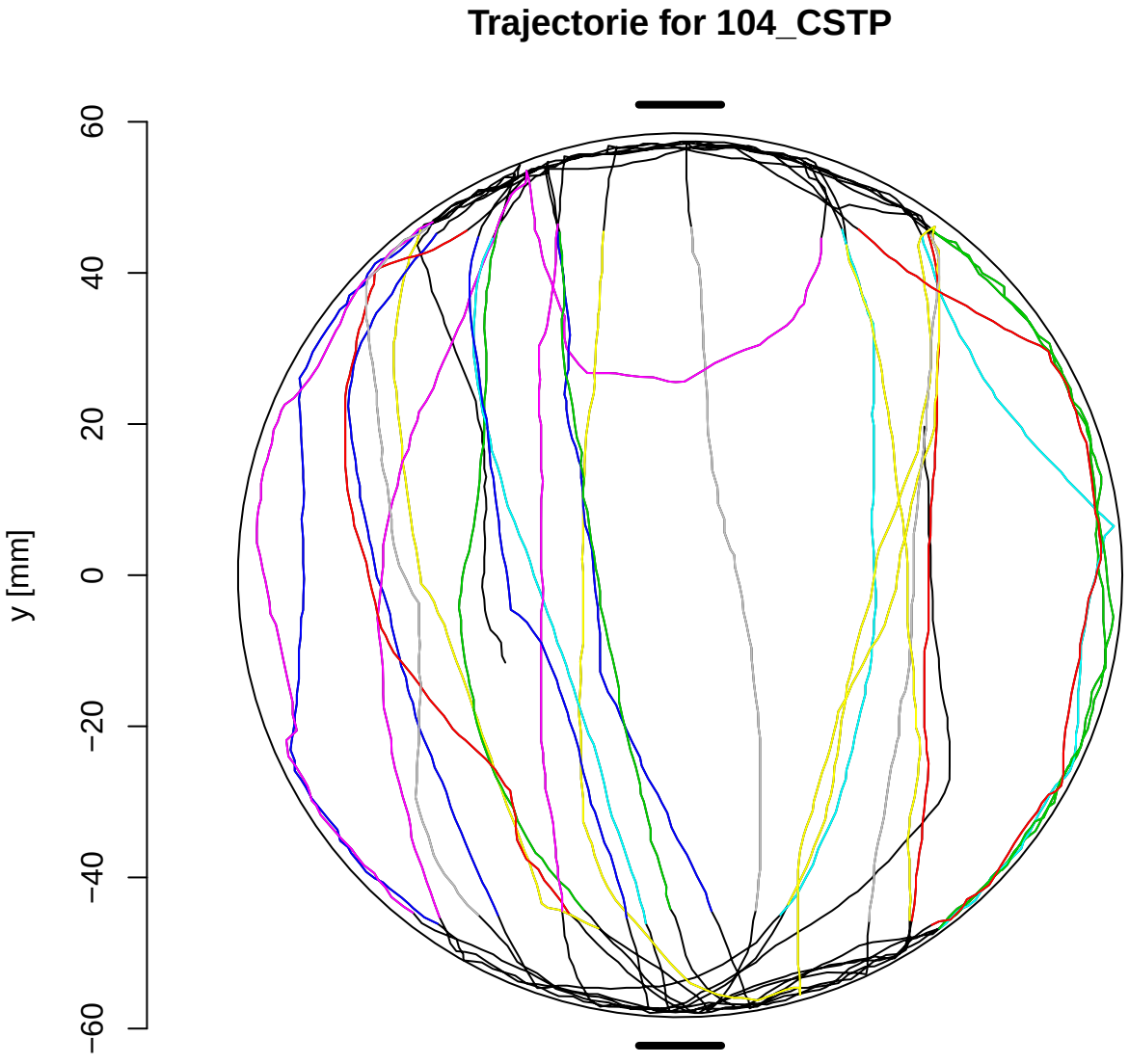
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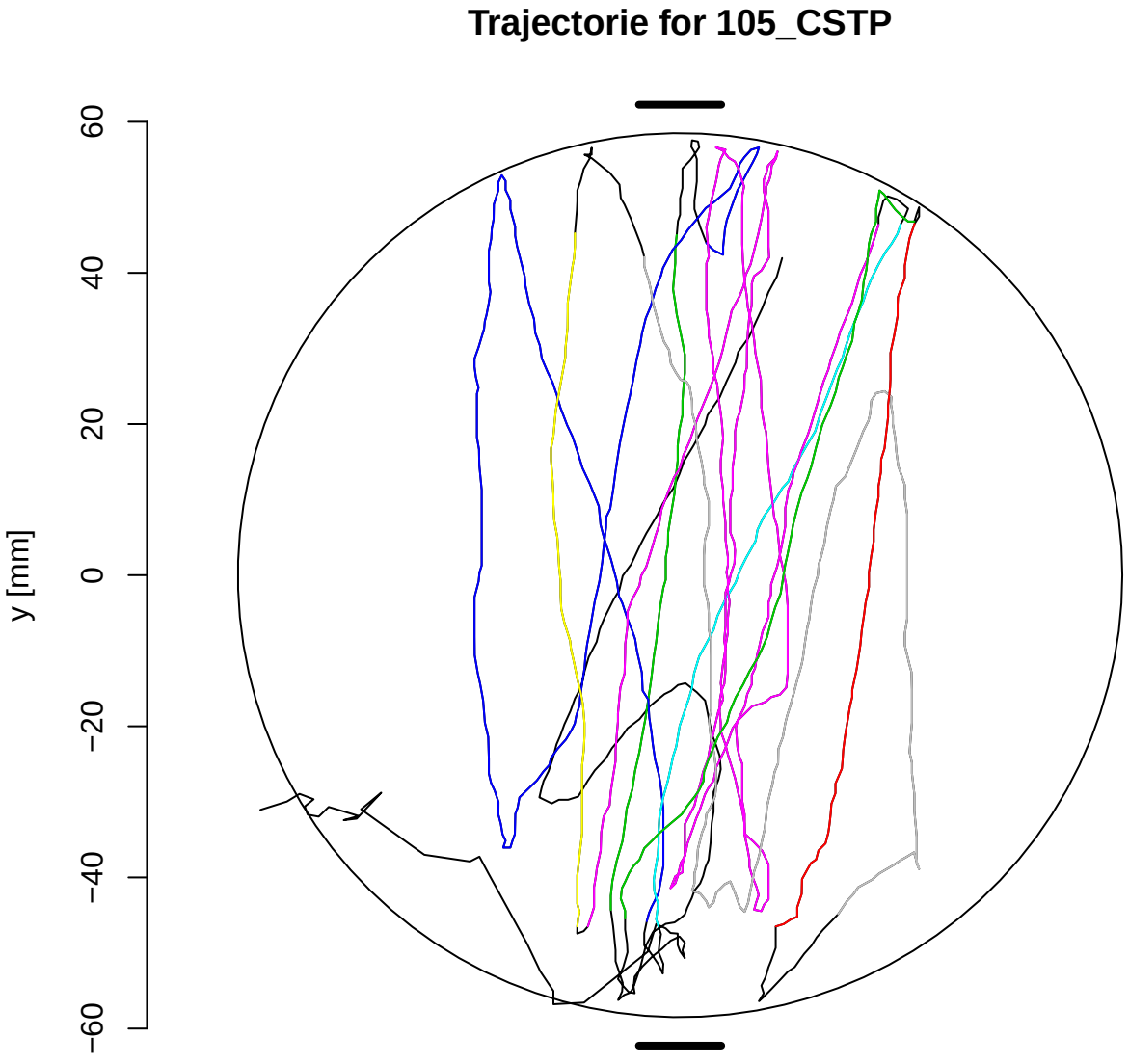
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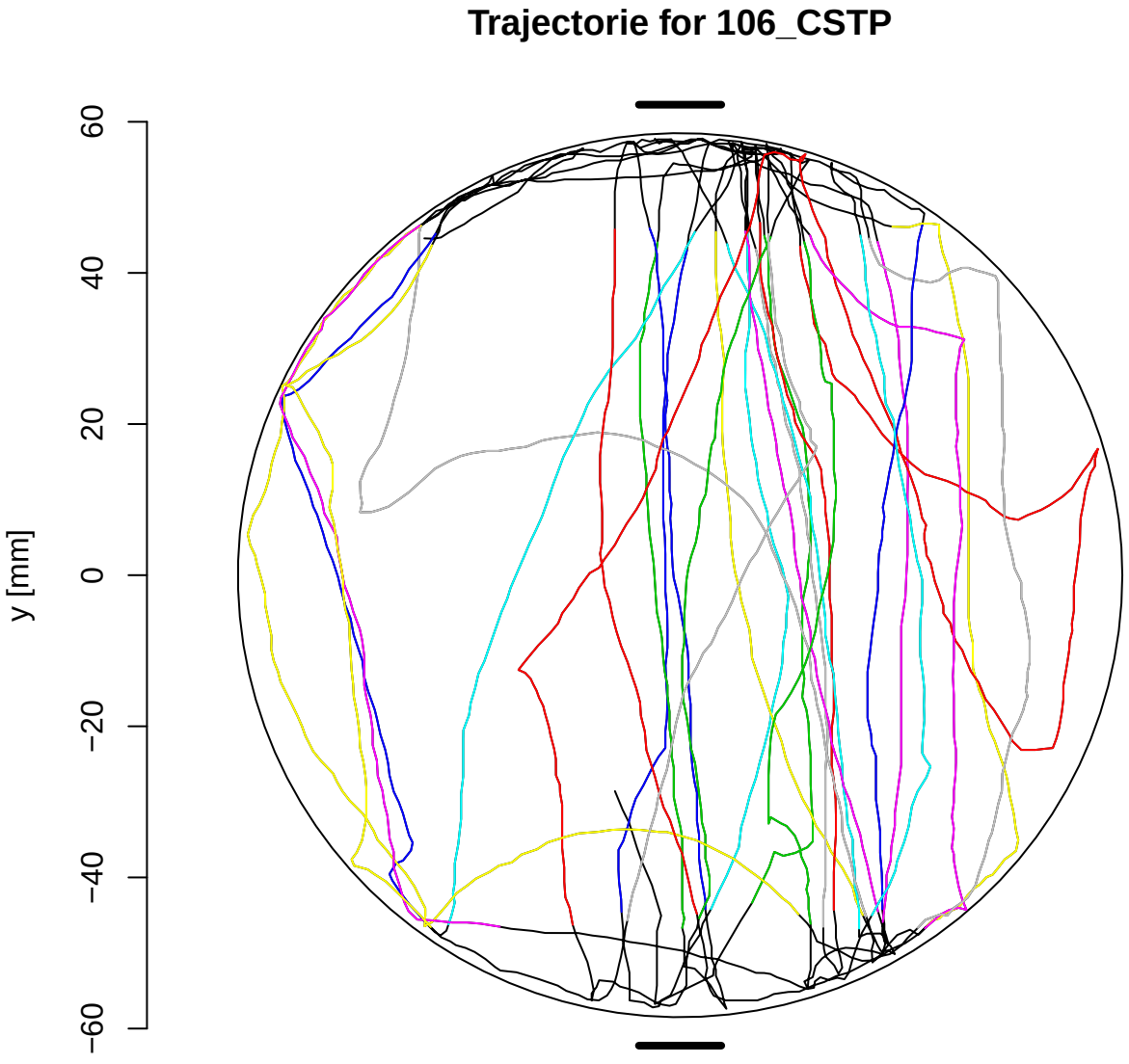
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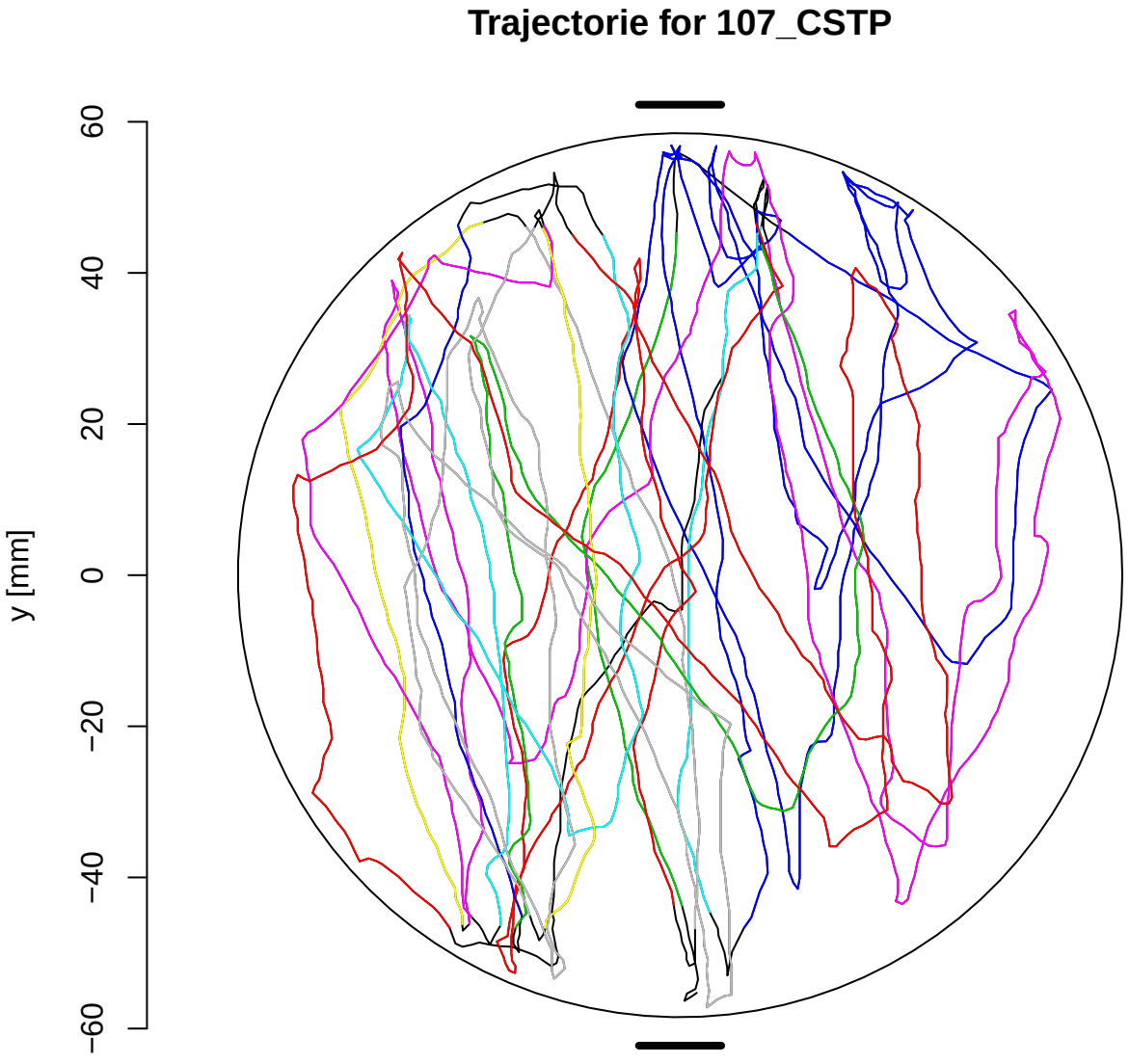
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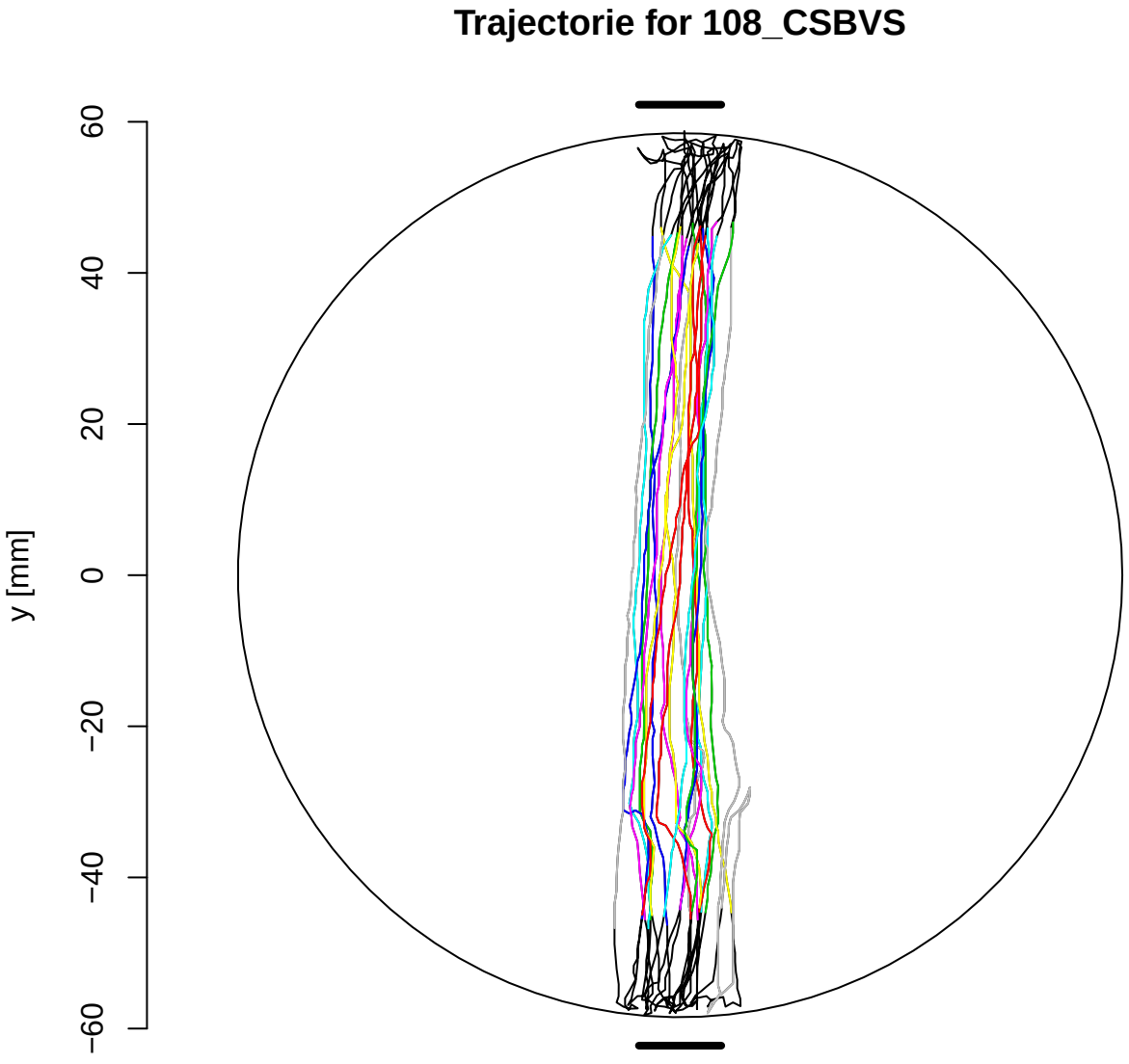
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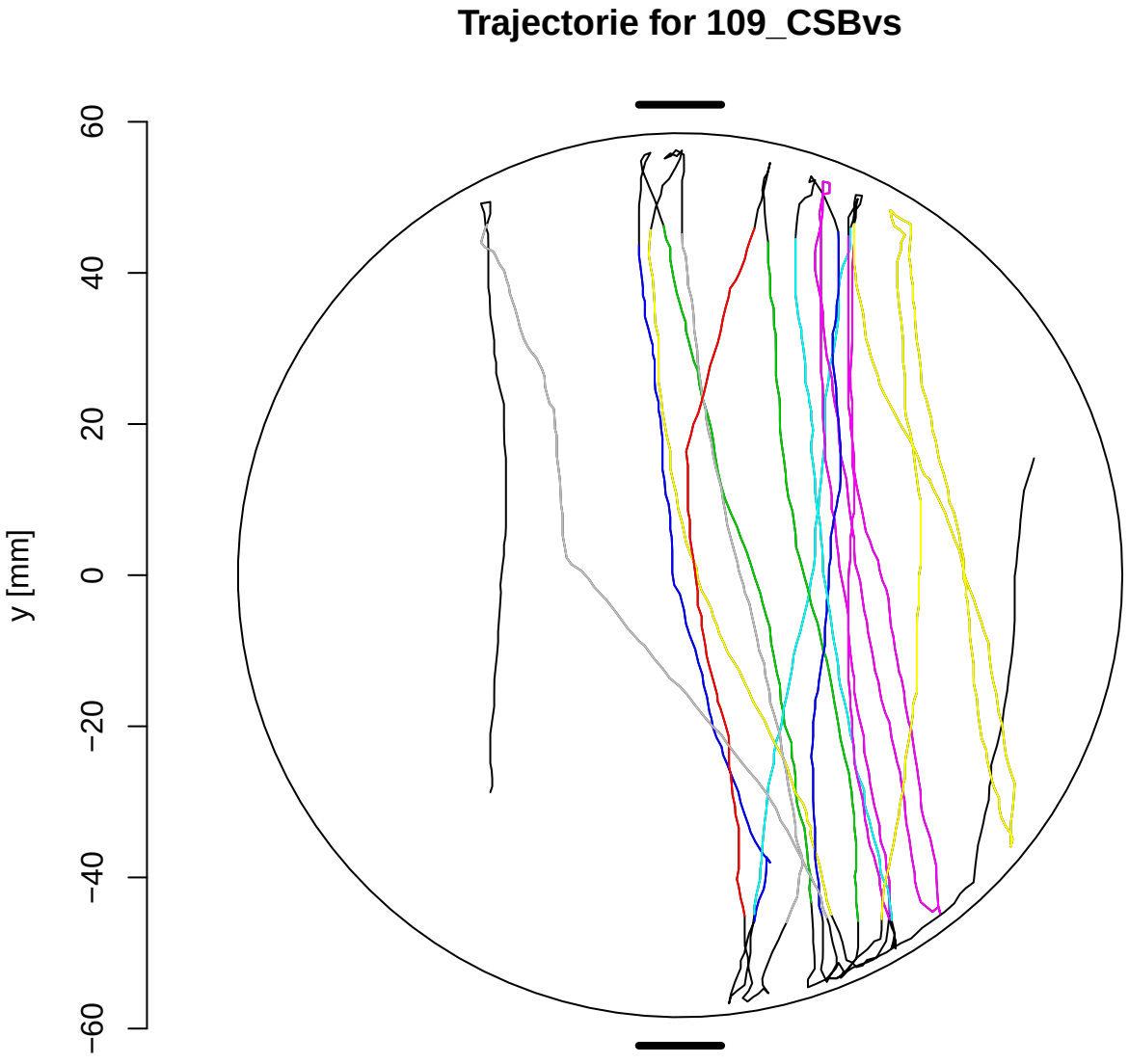
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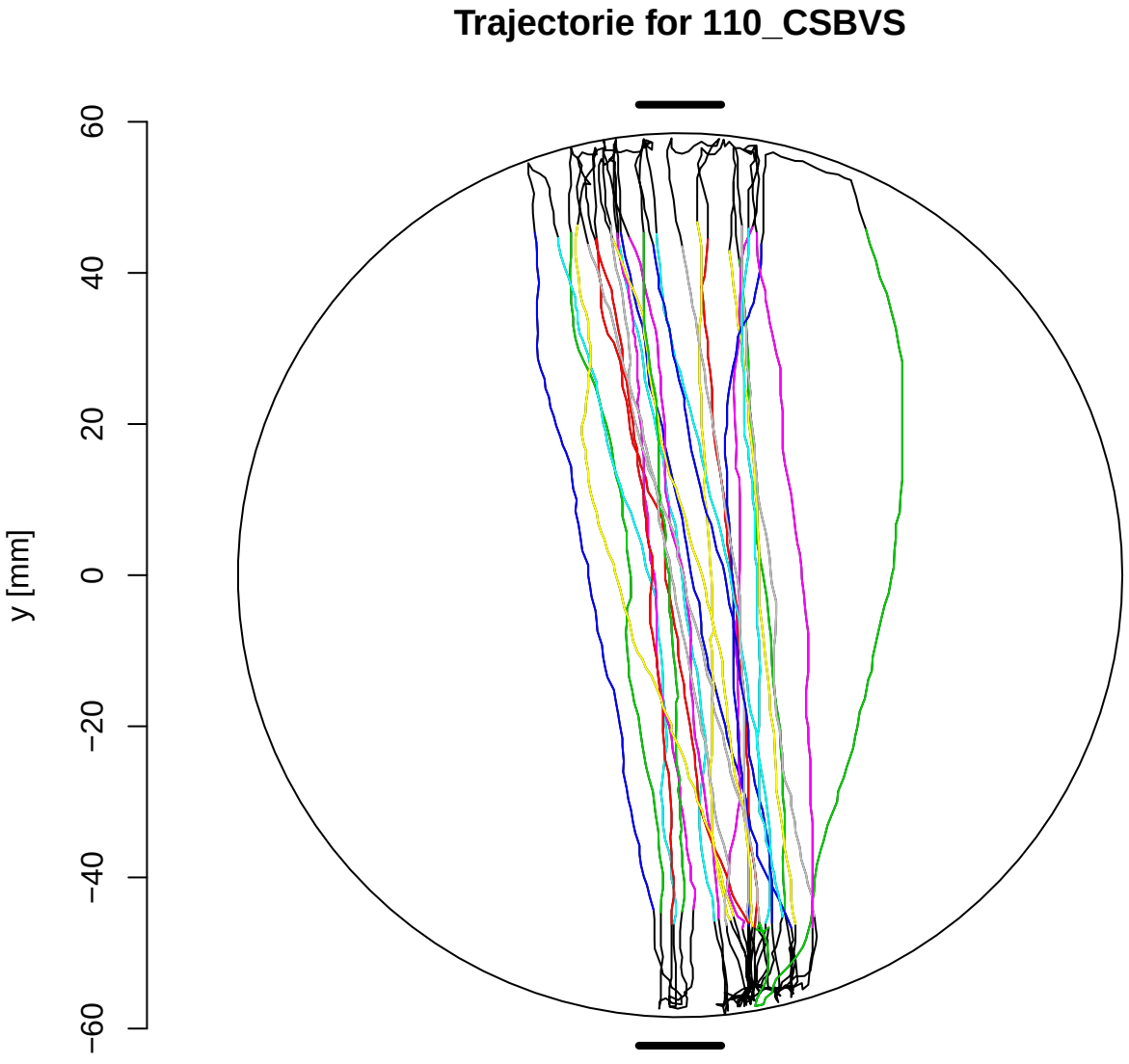
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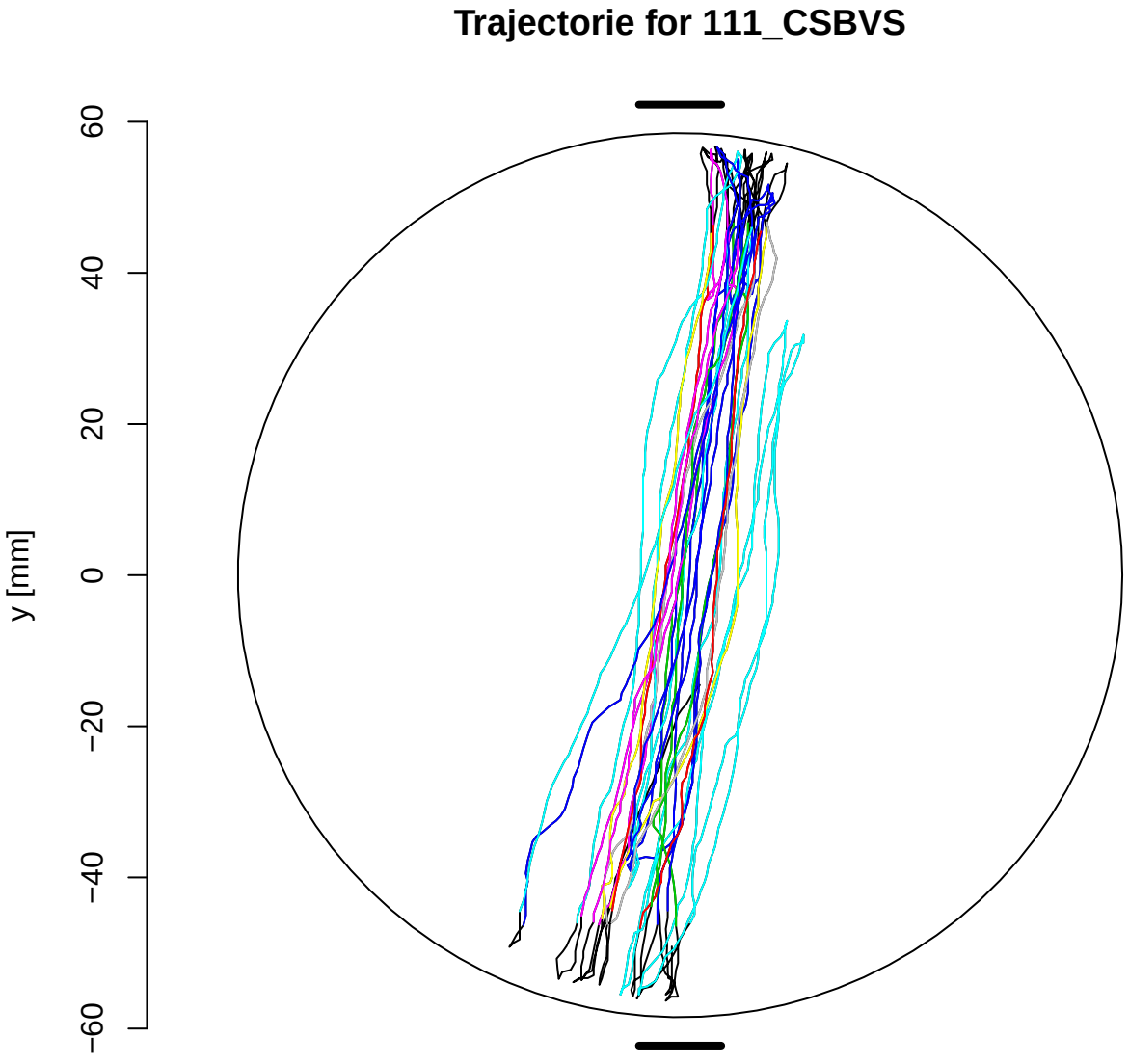
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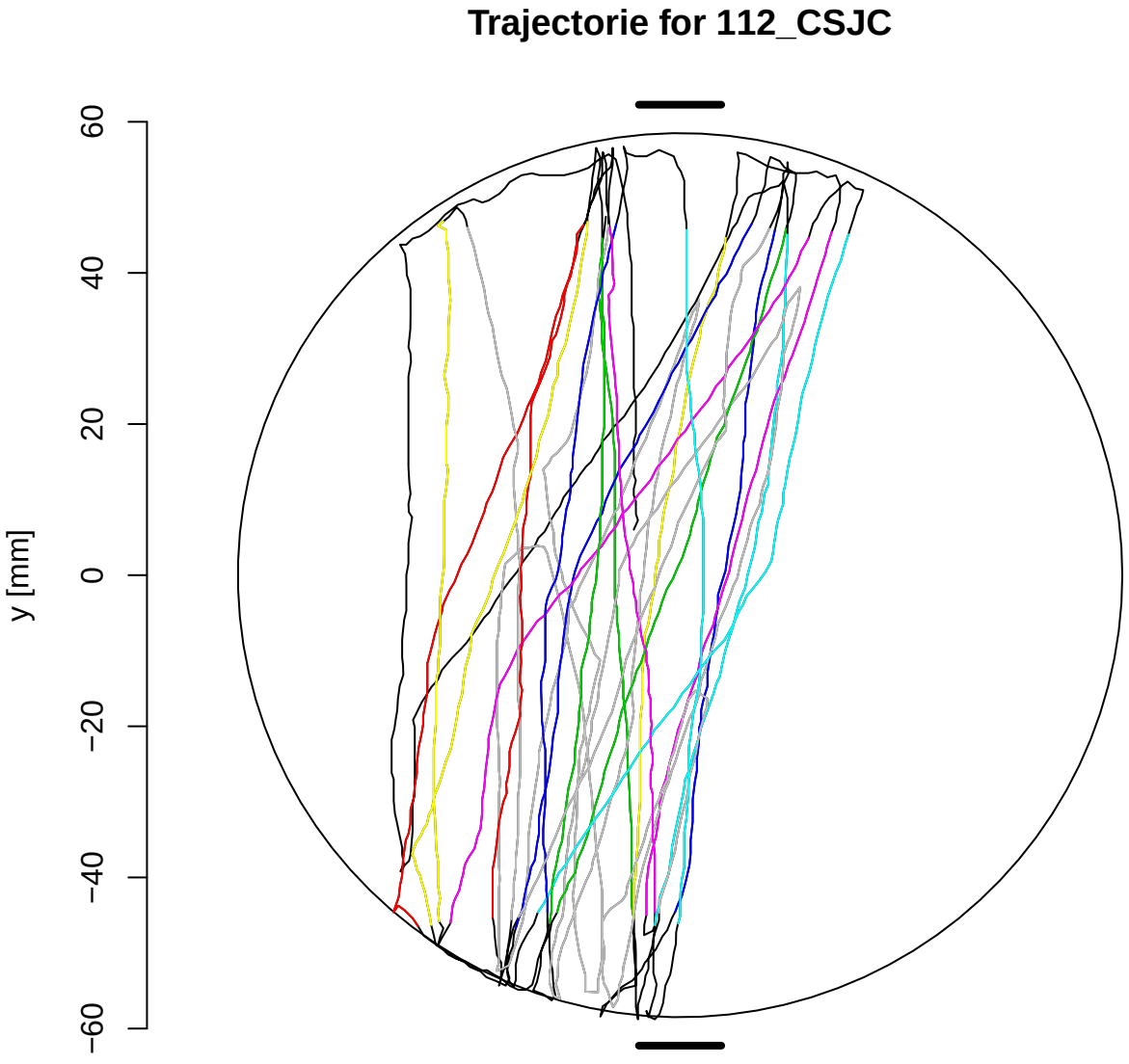
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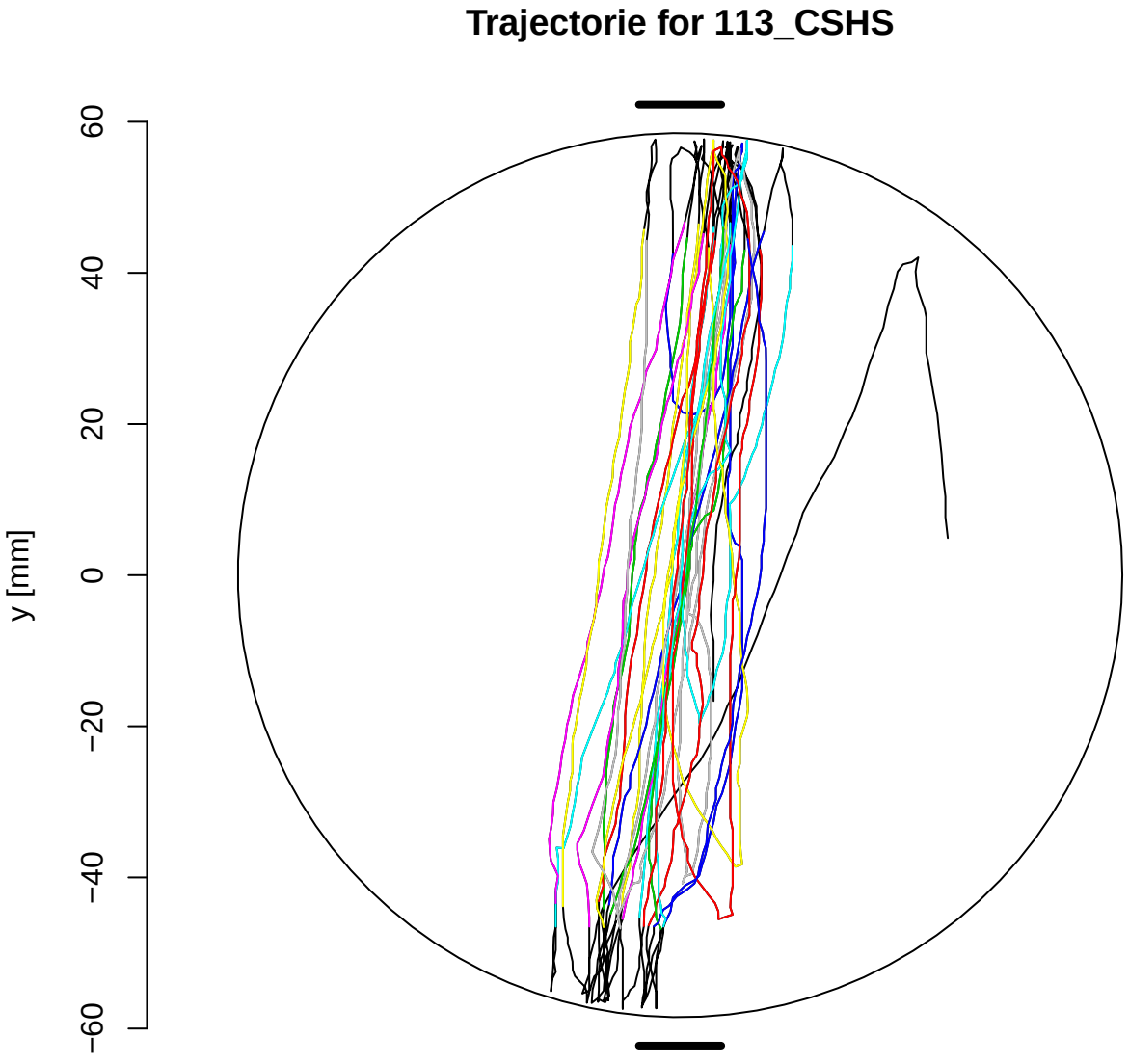
Trajectorie for 113_CSHS
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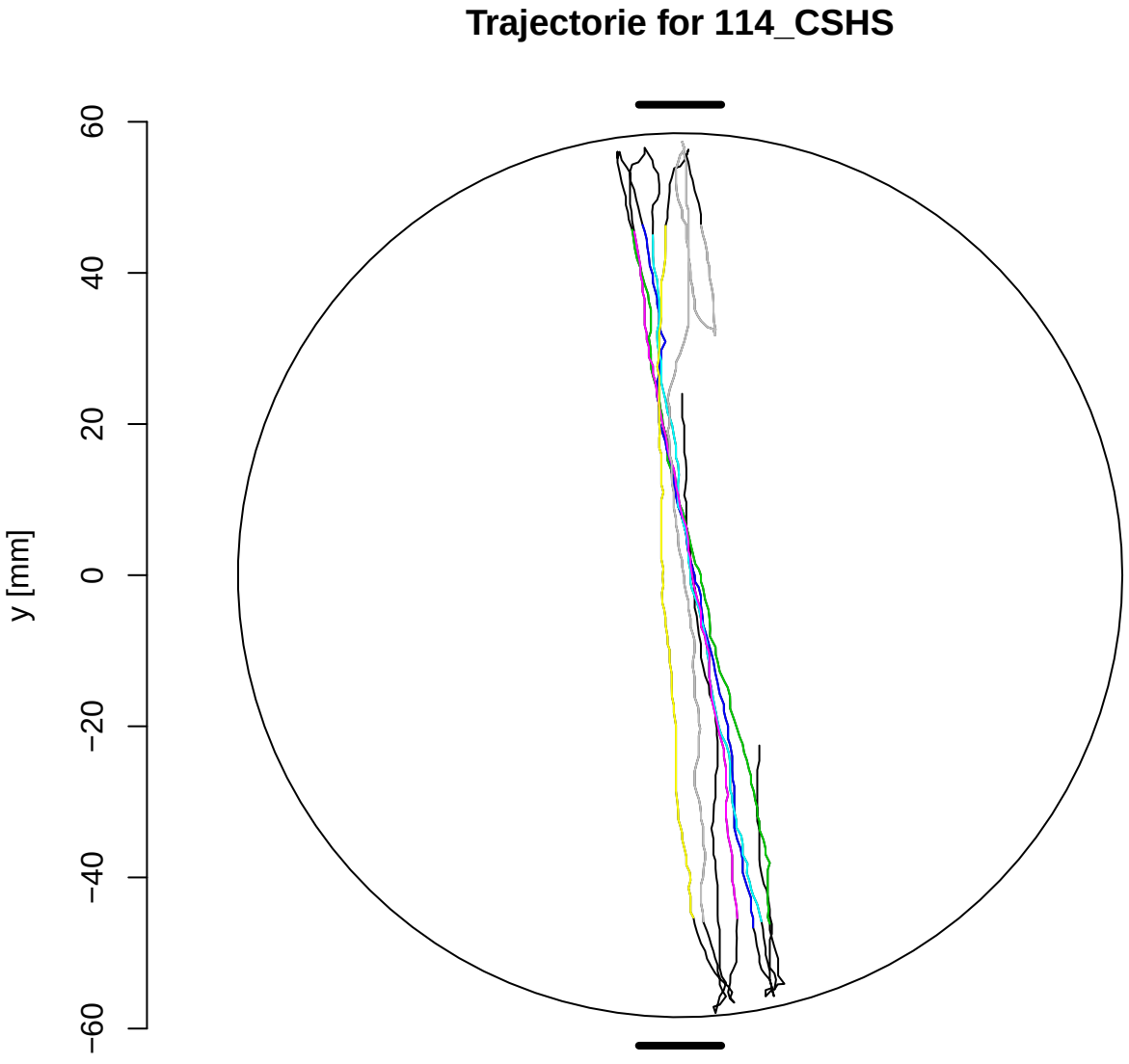
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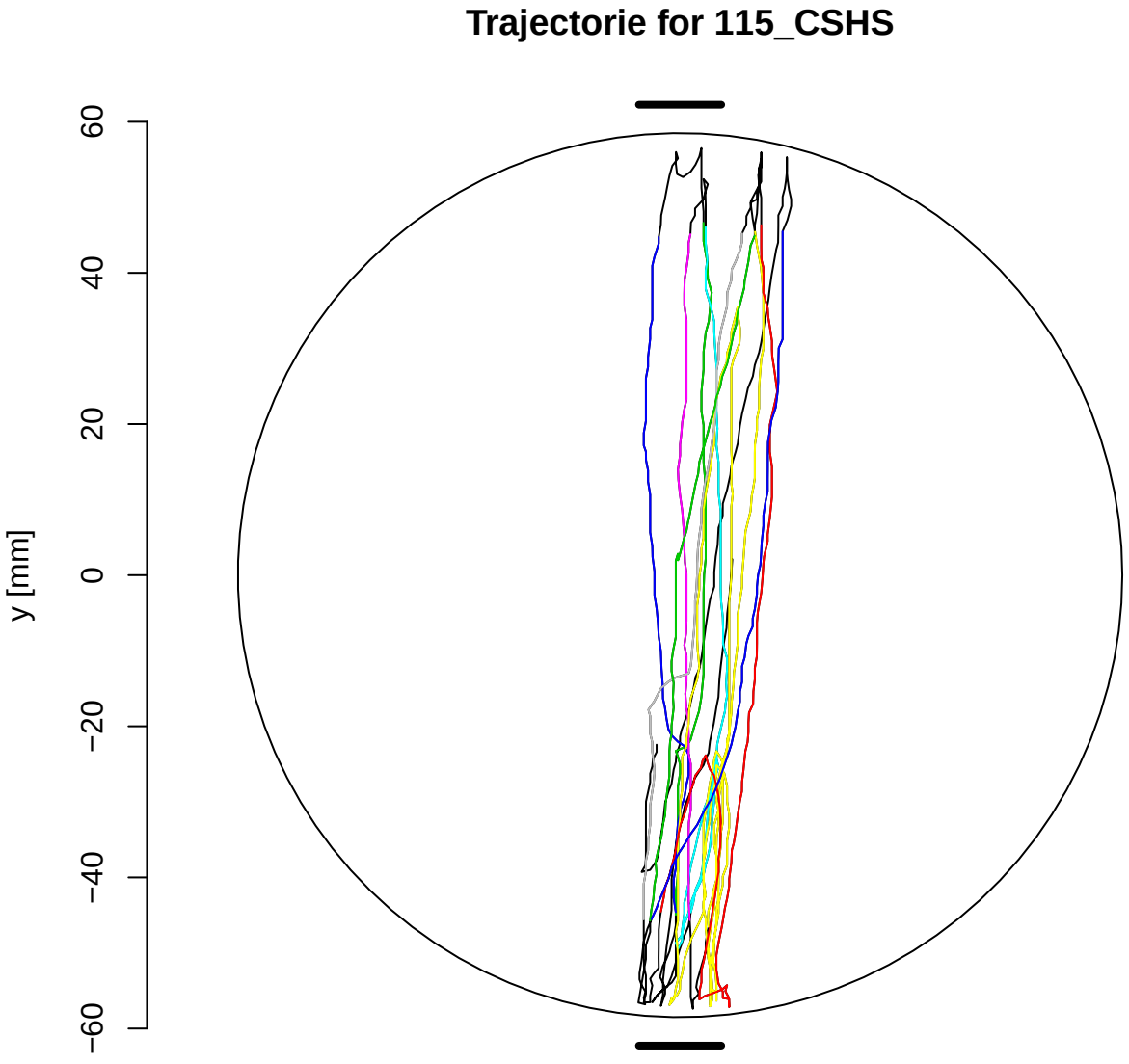
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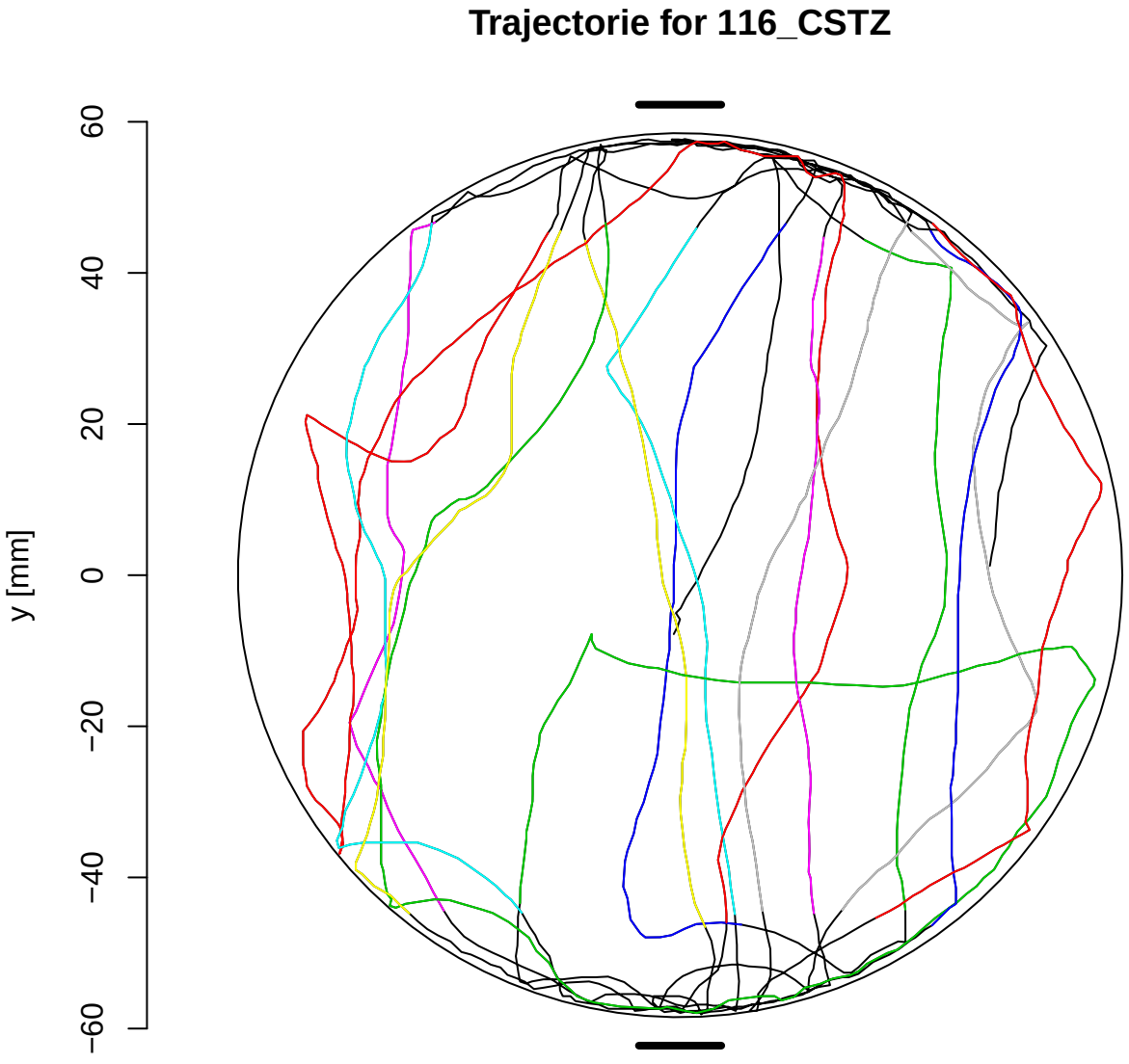
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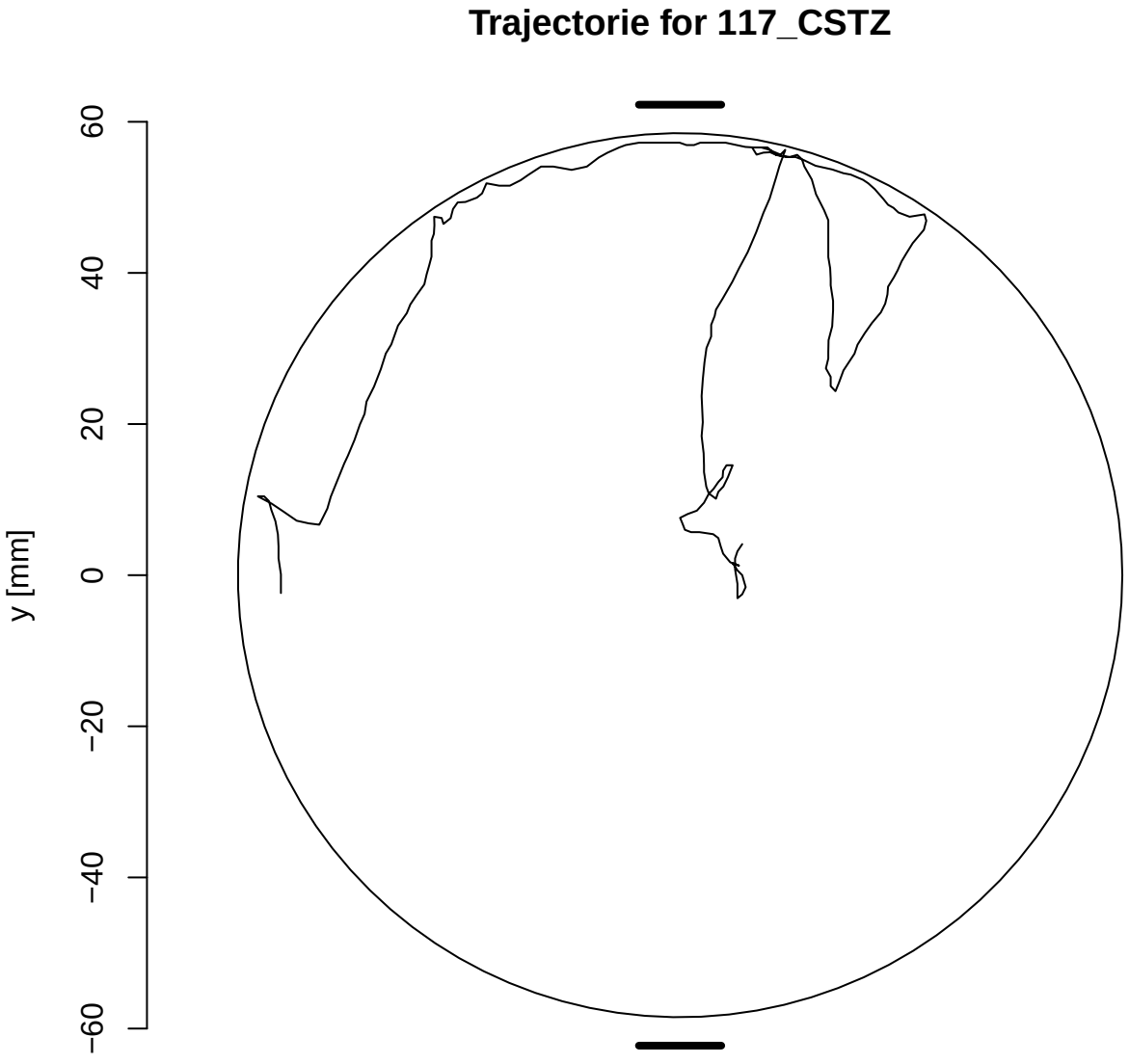
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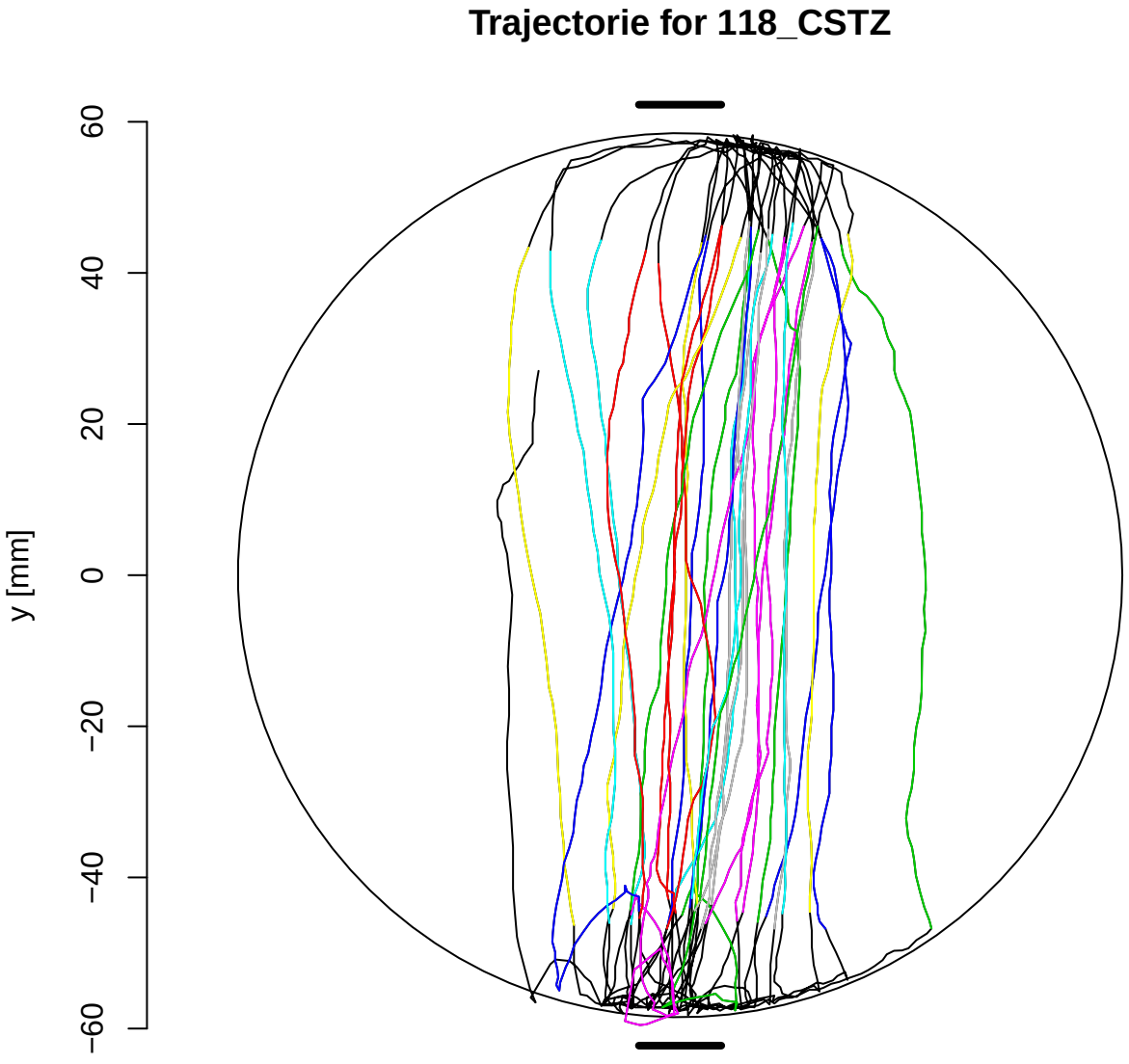
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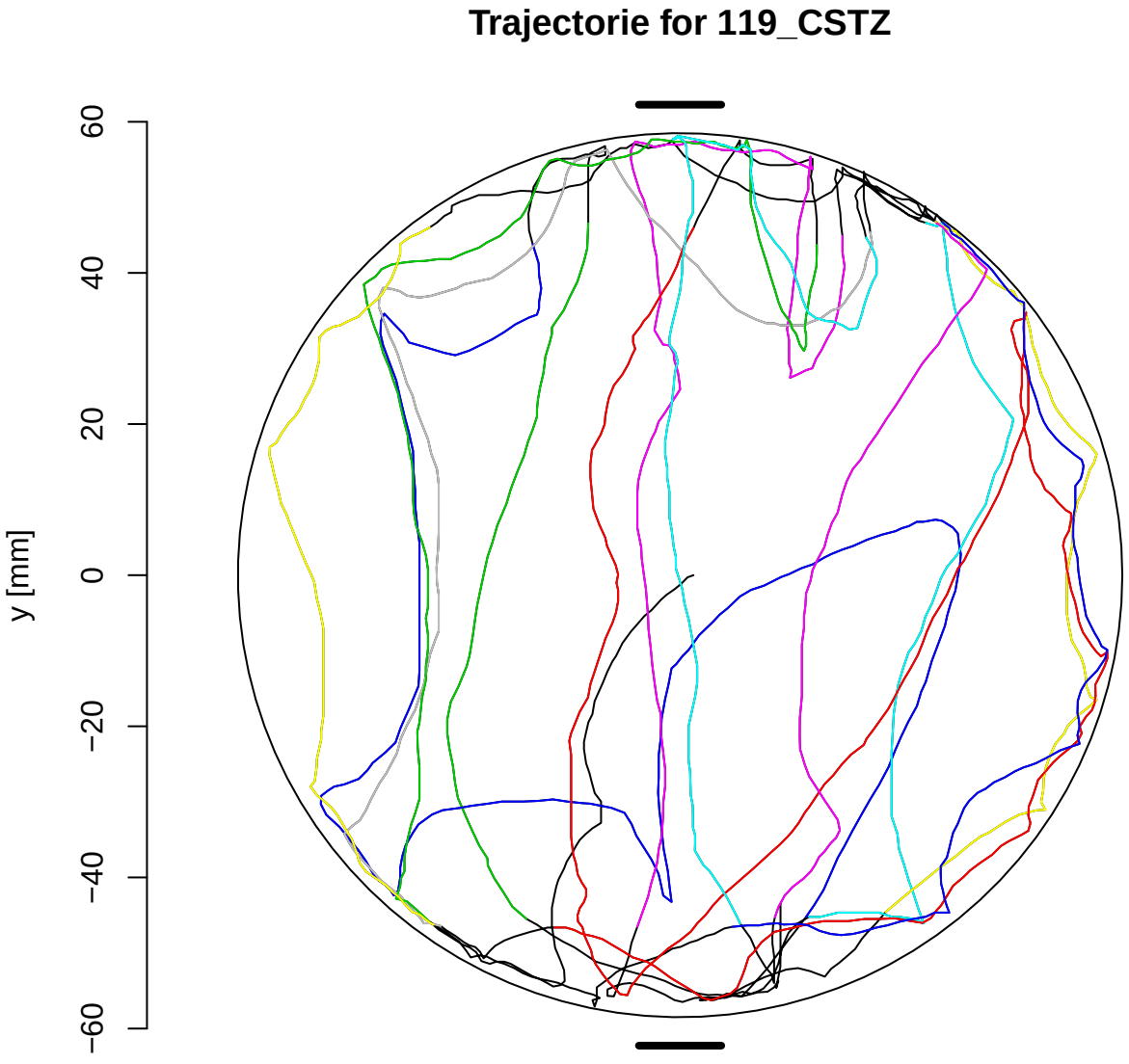
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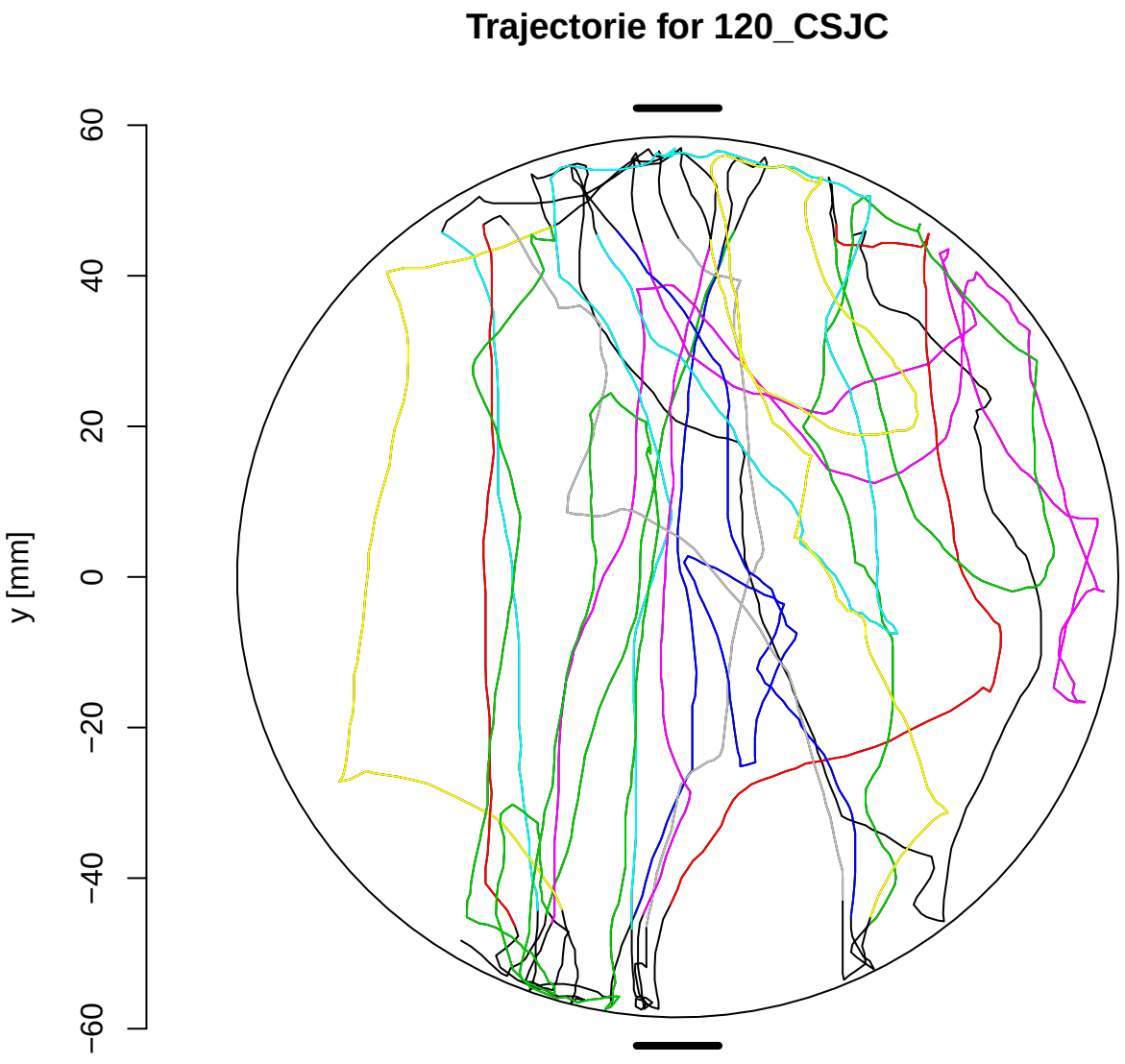
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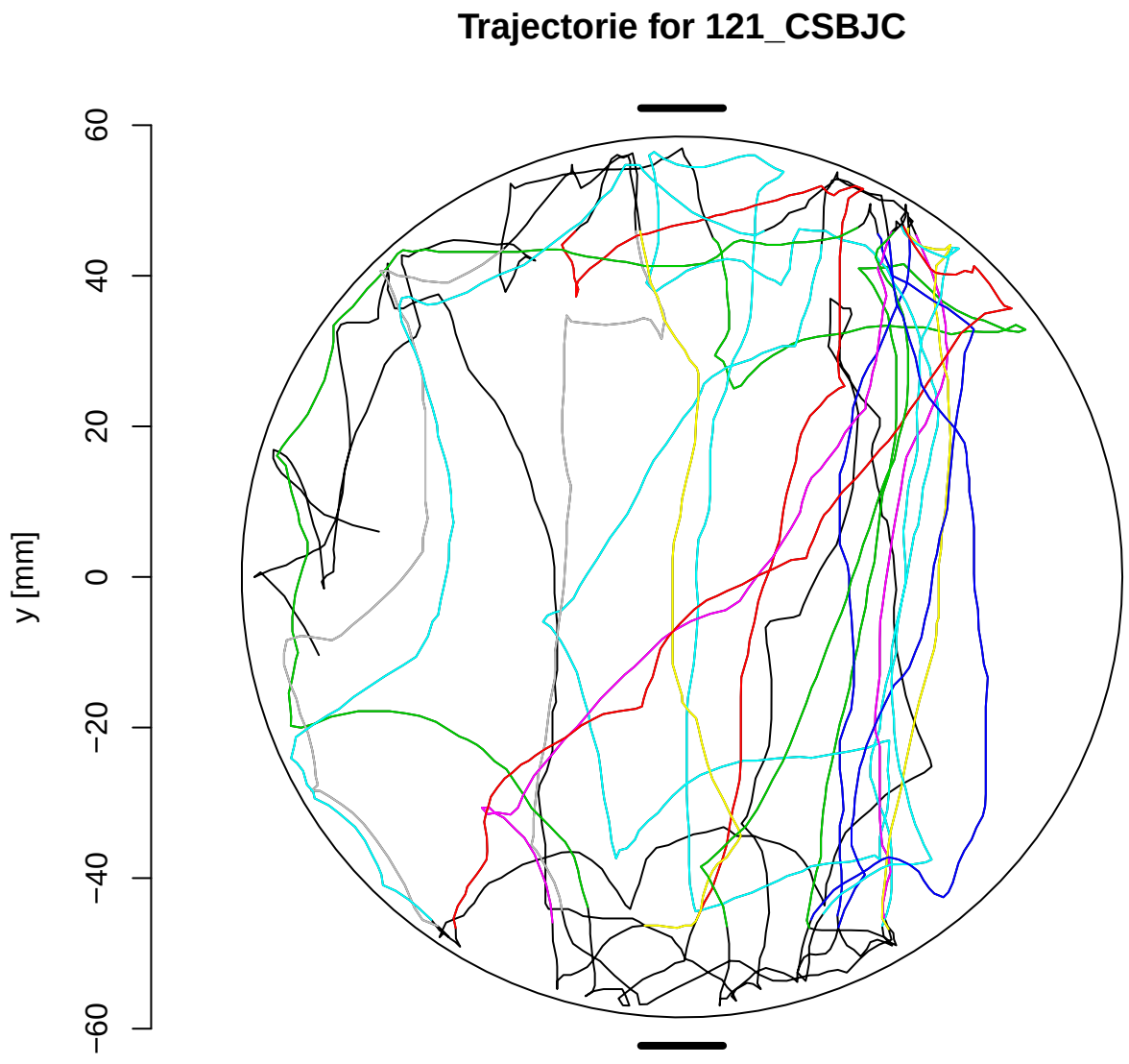
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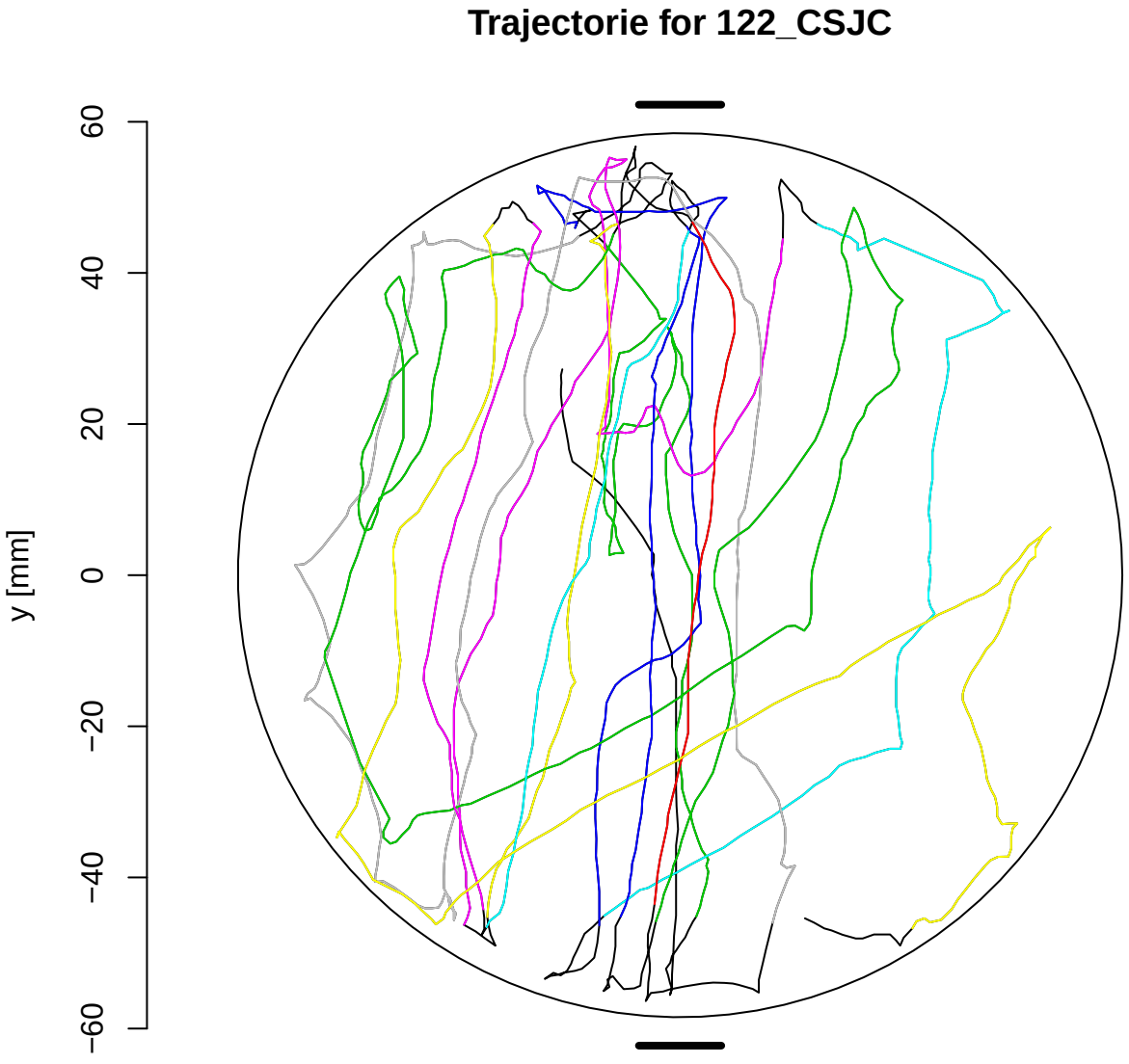
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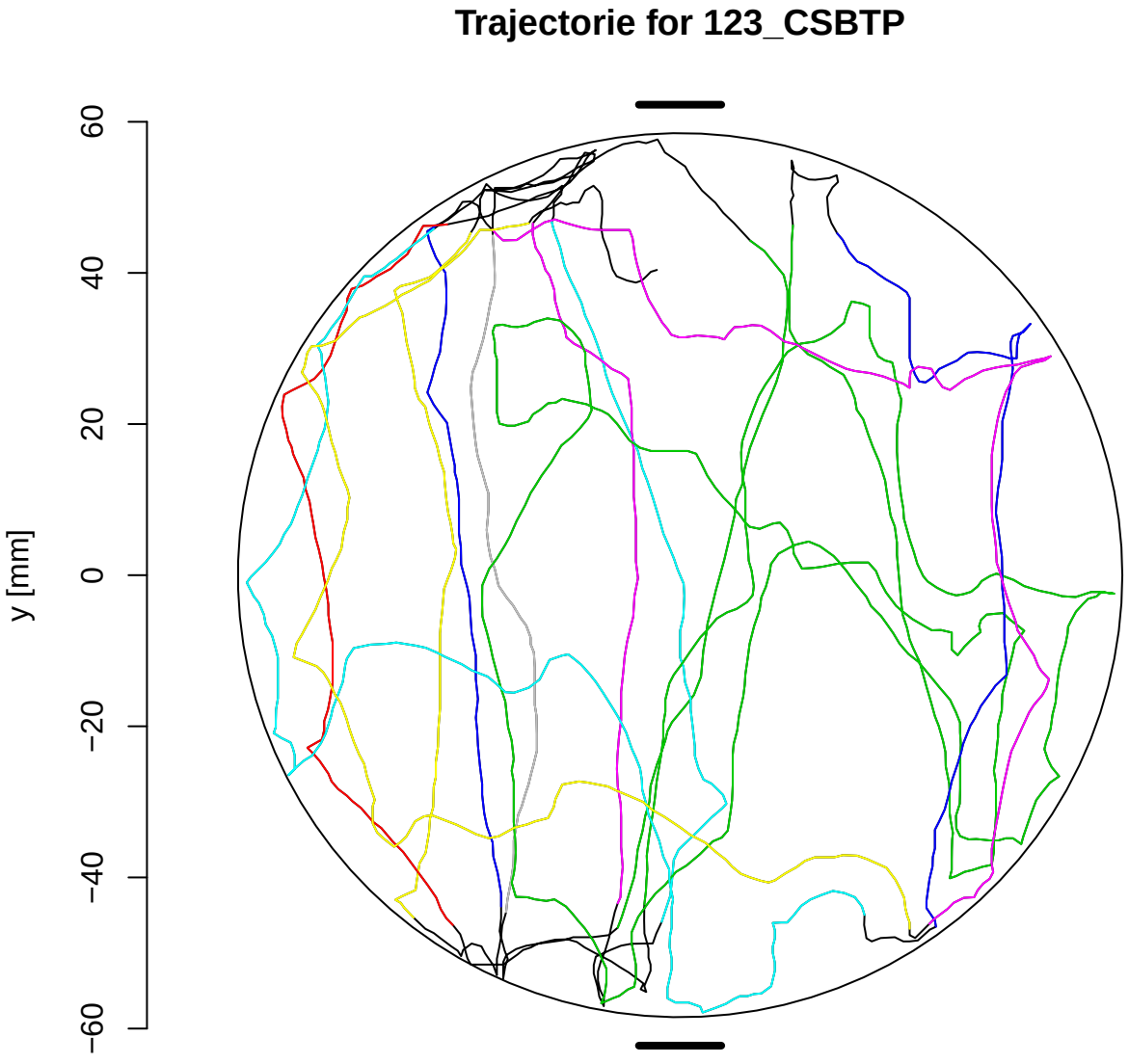
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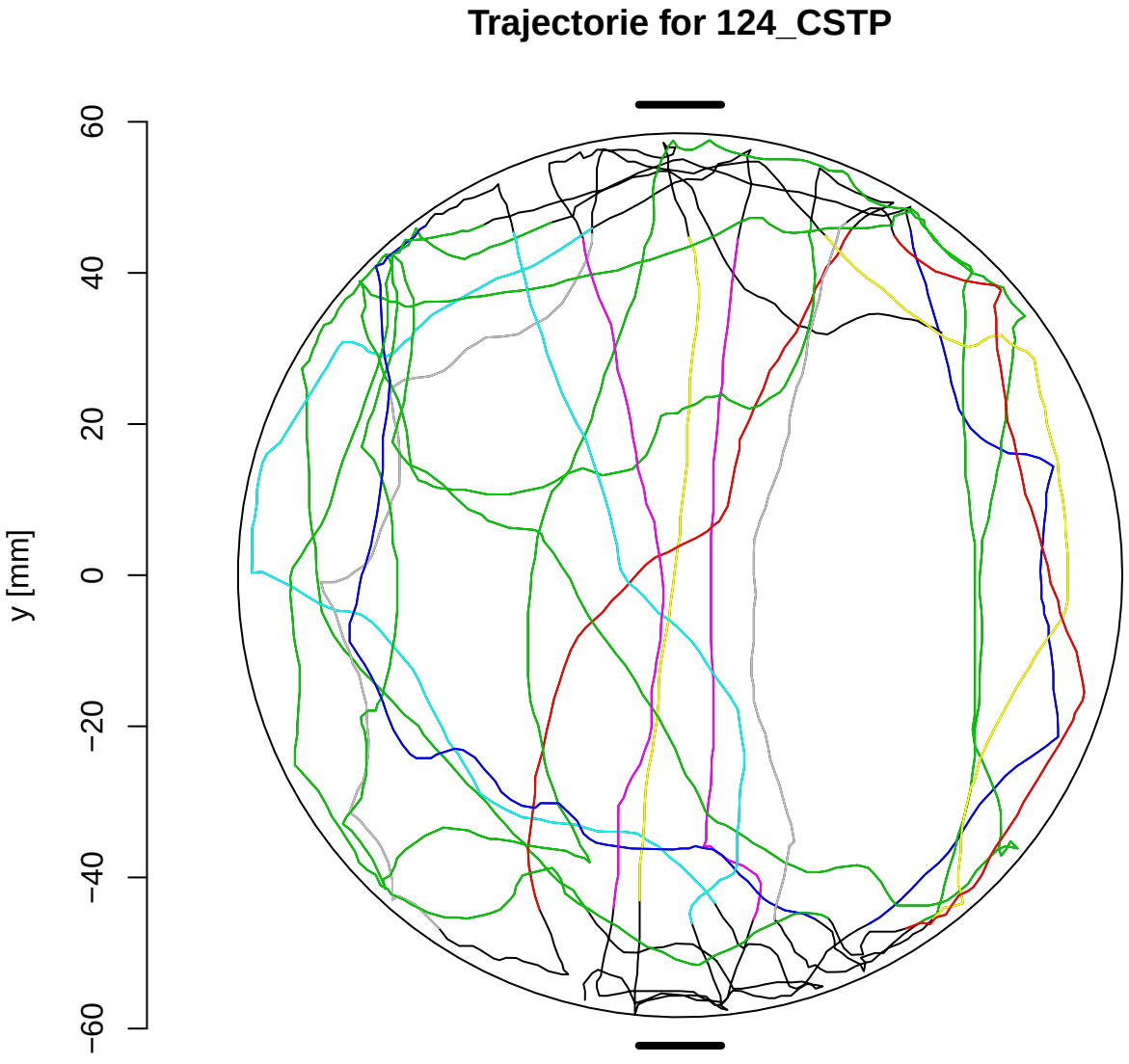
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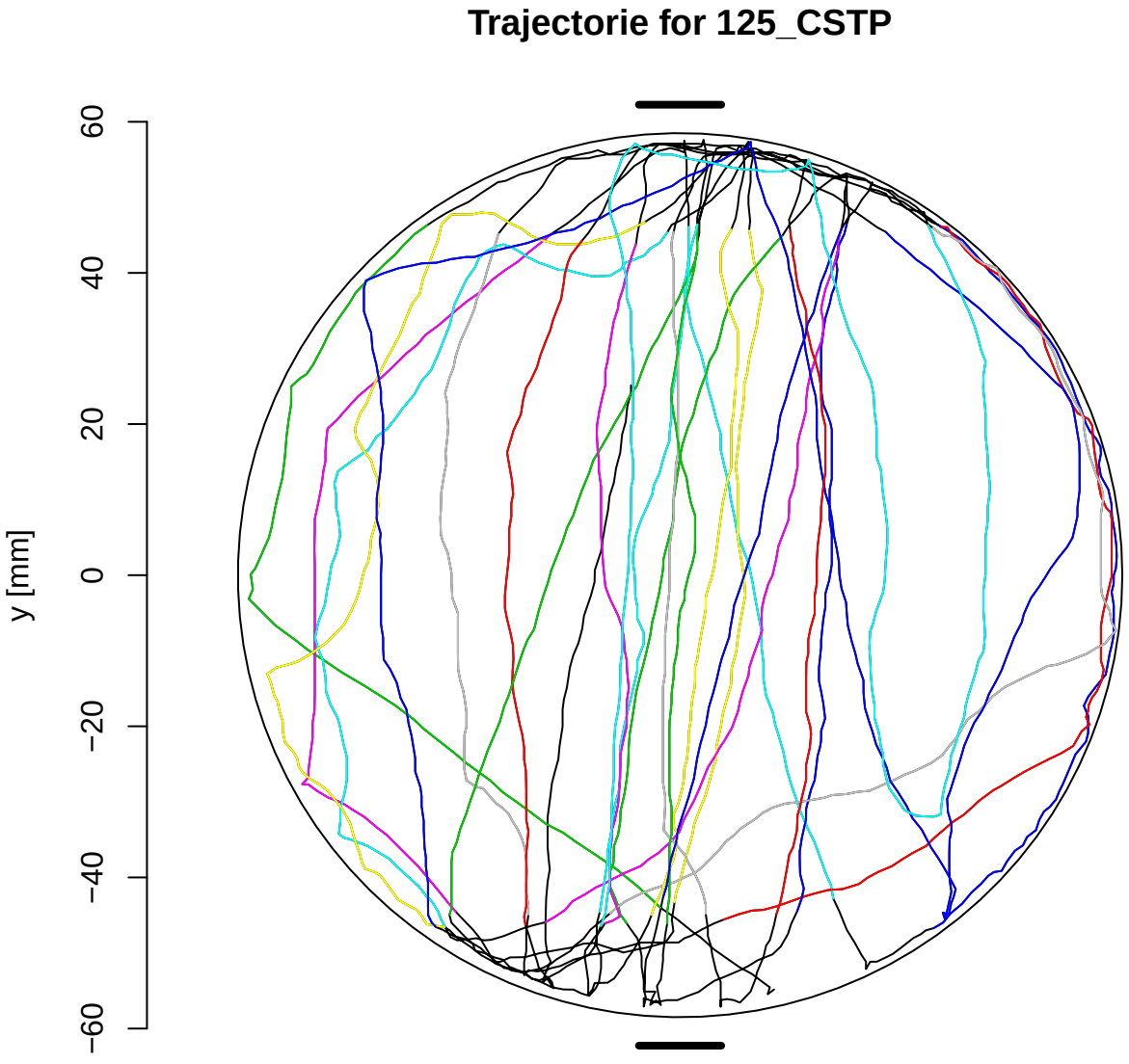
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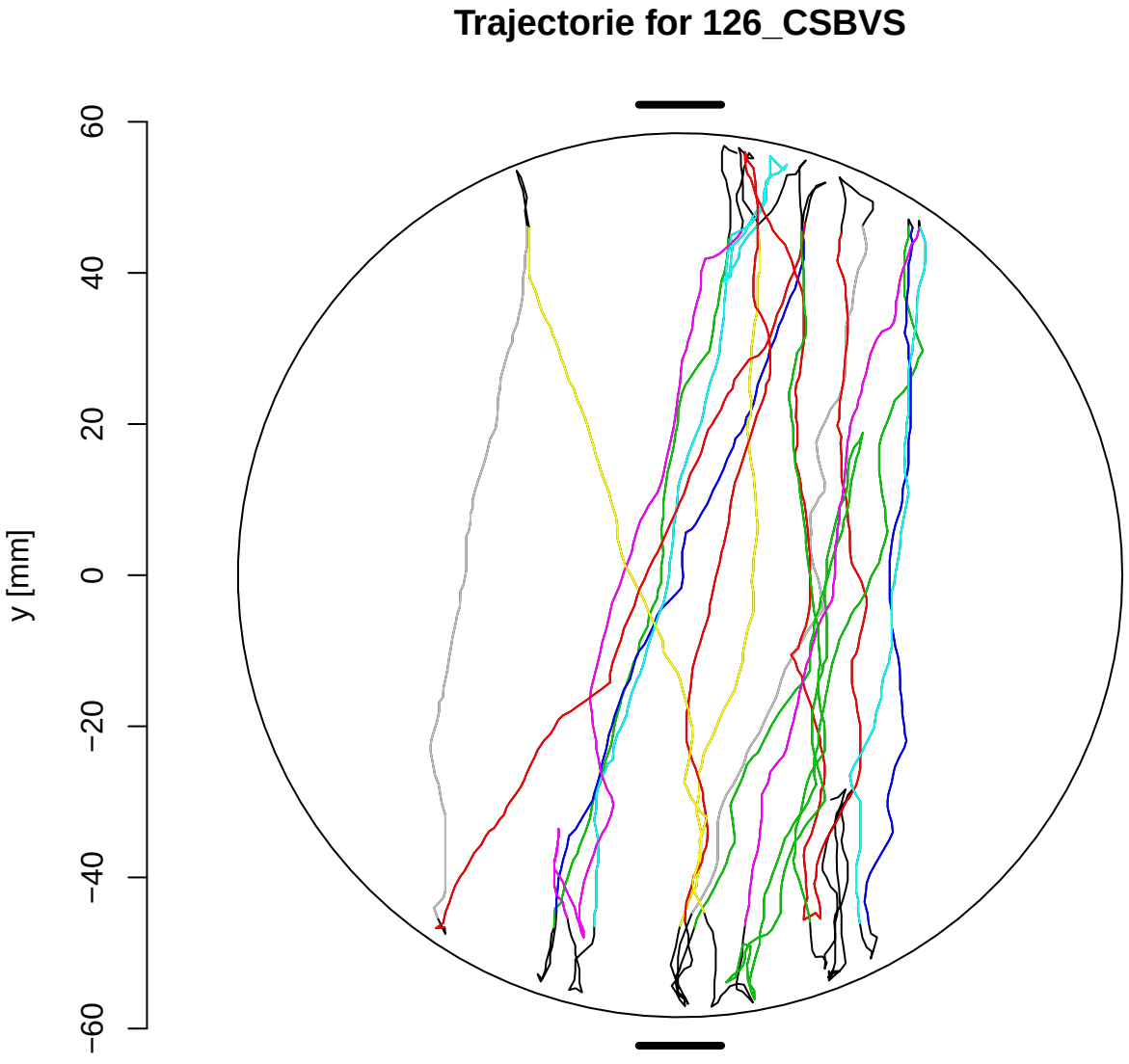
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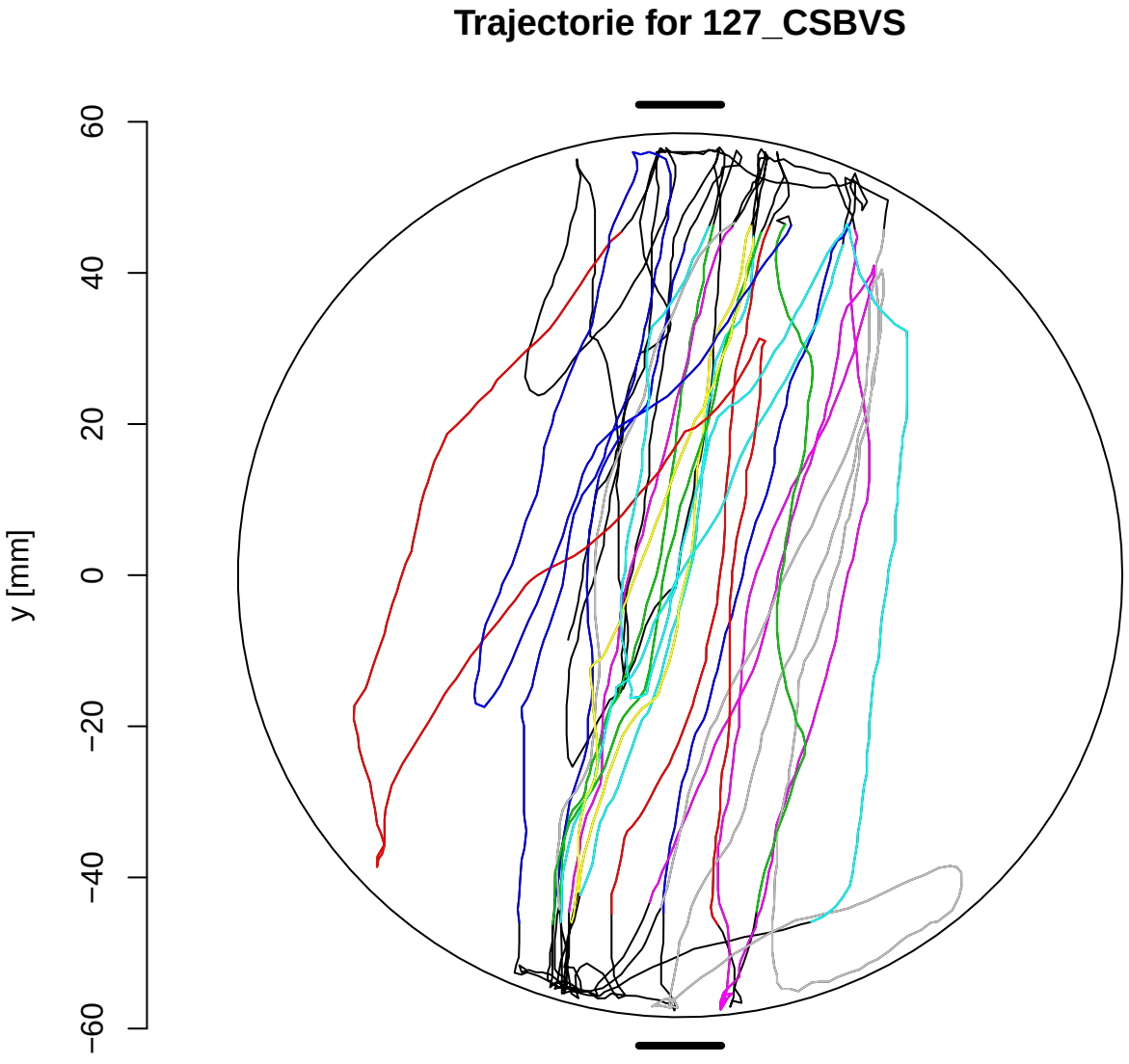
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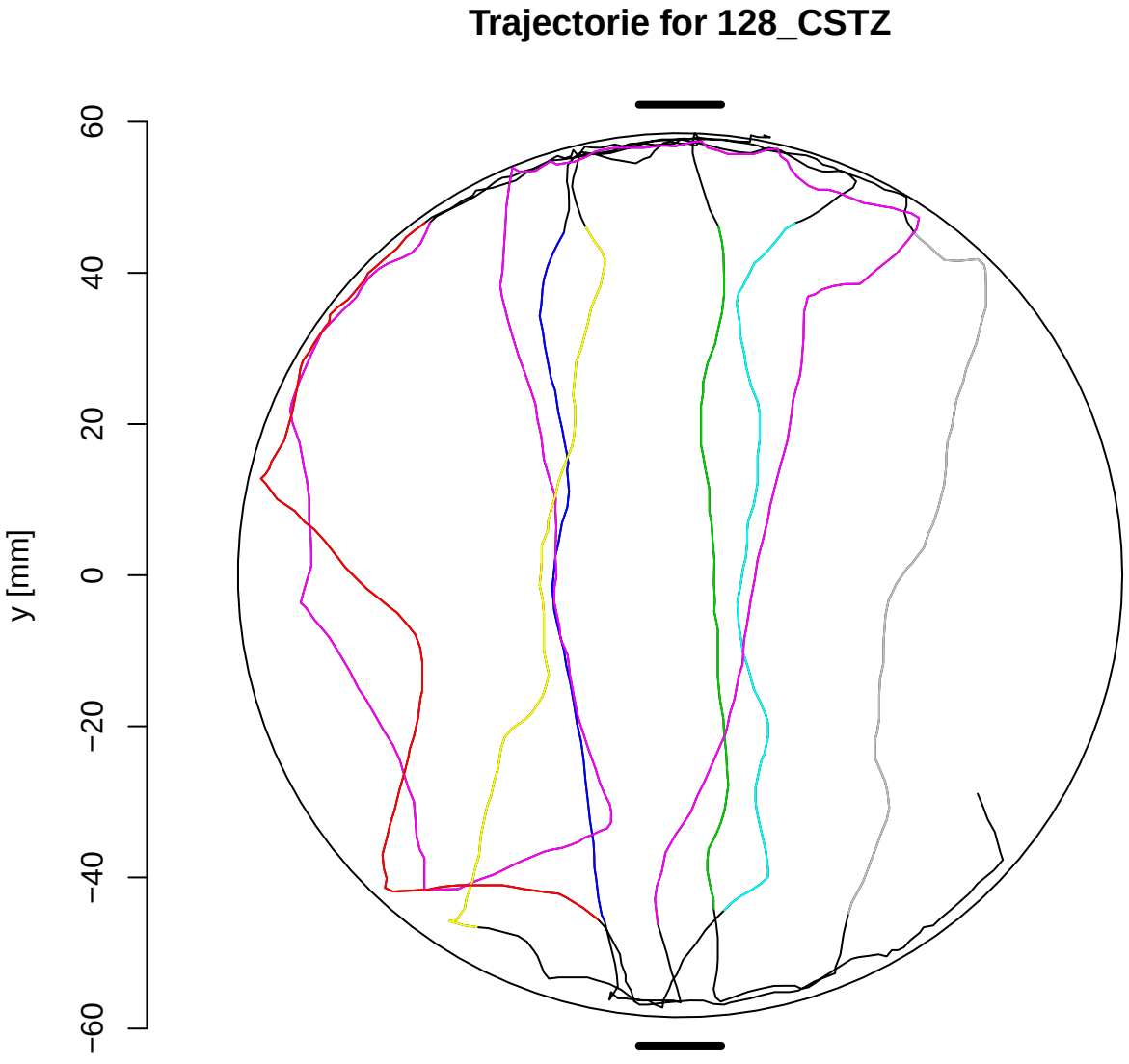
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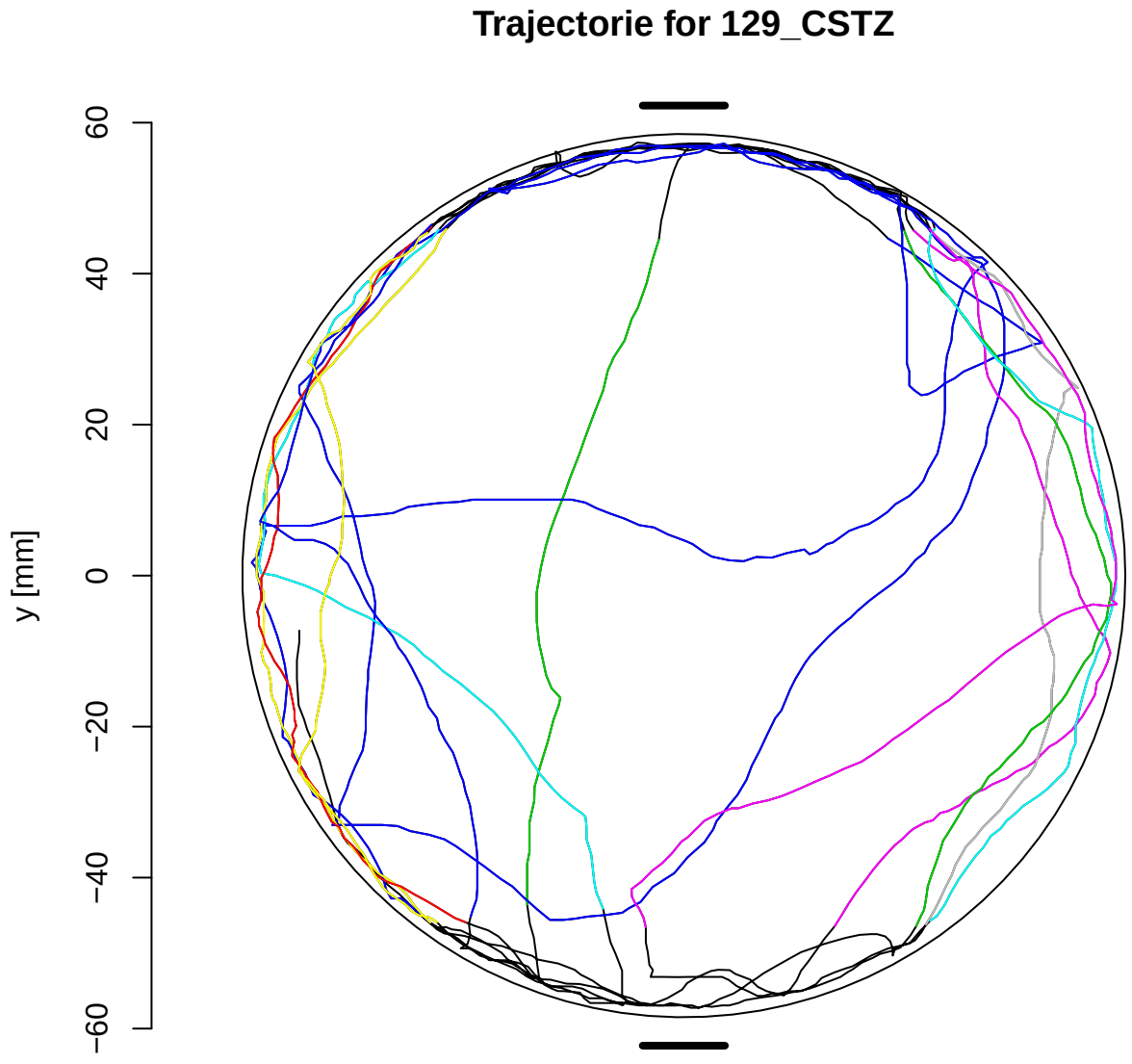
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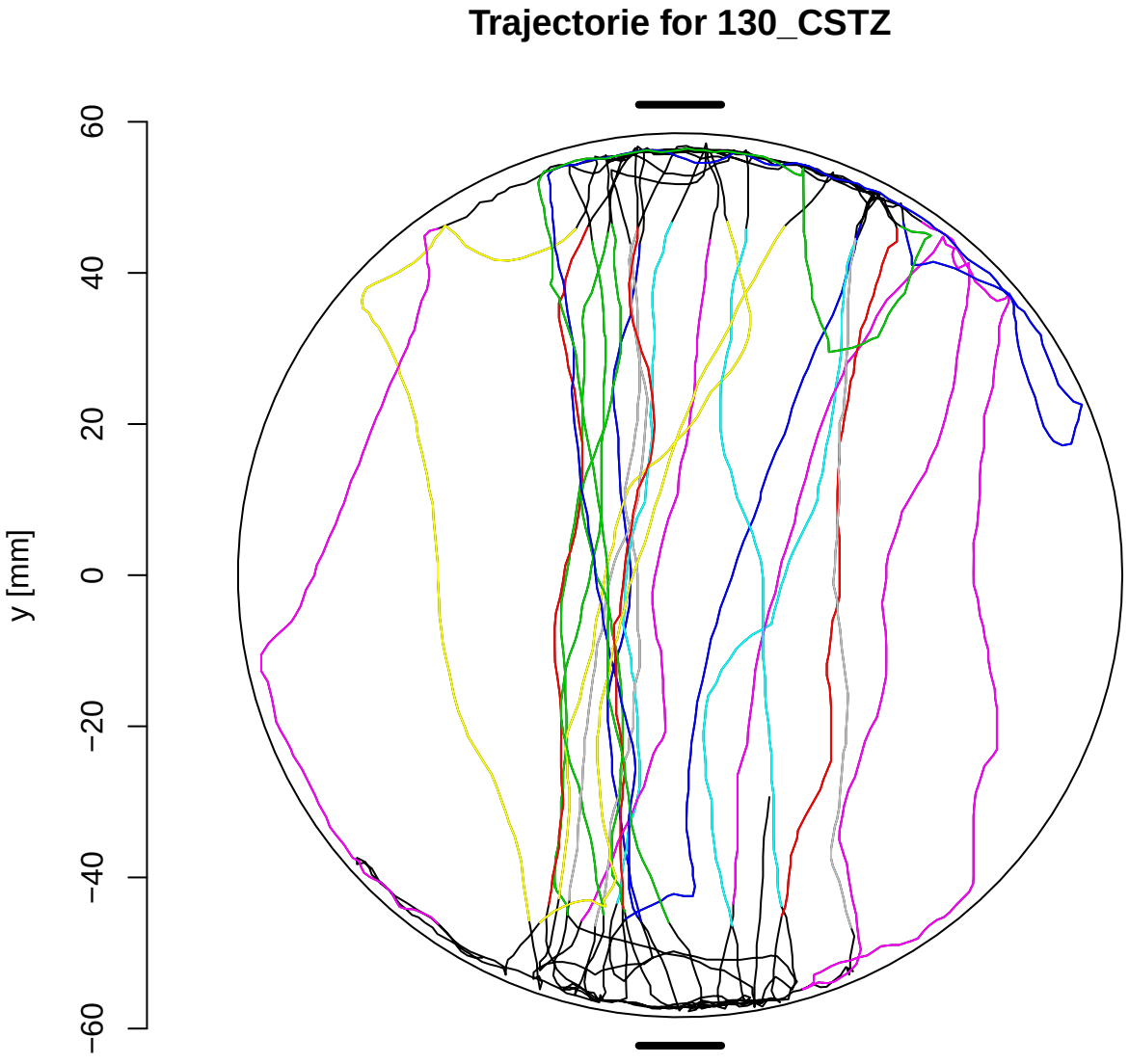
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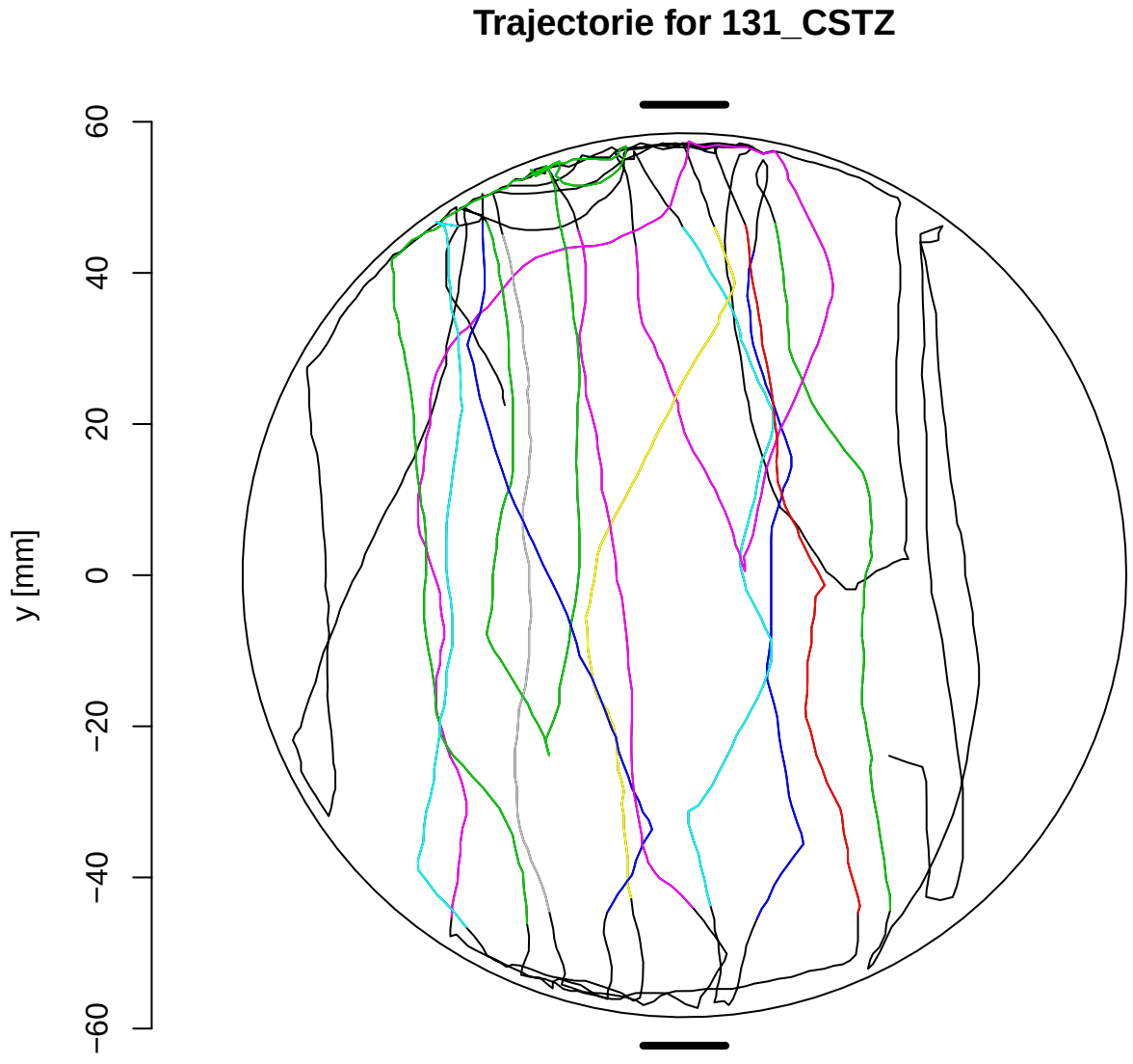
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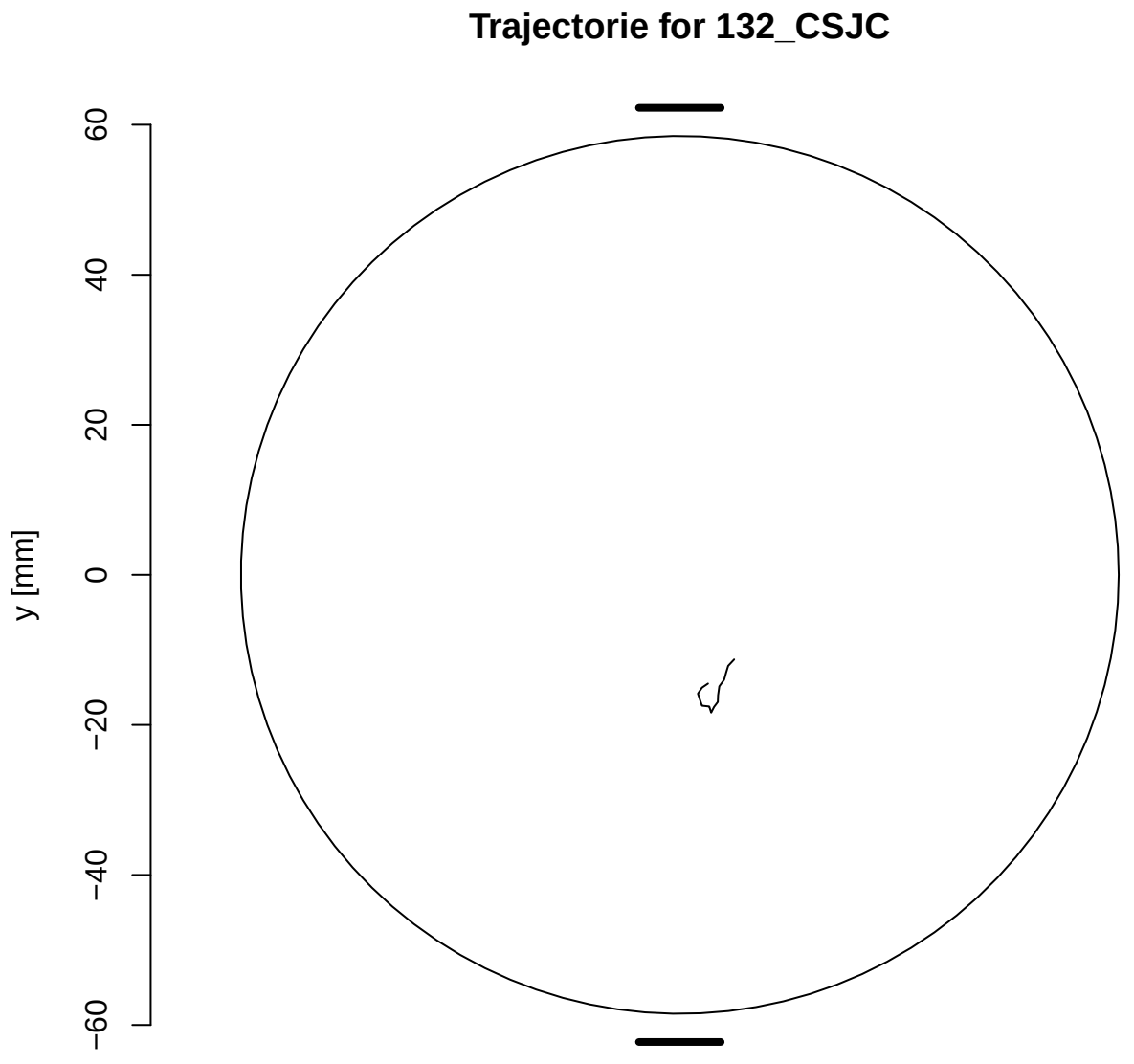
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y [mm]
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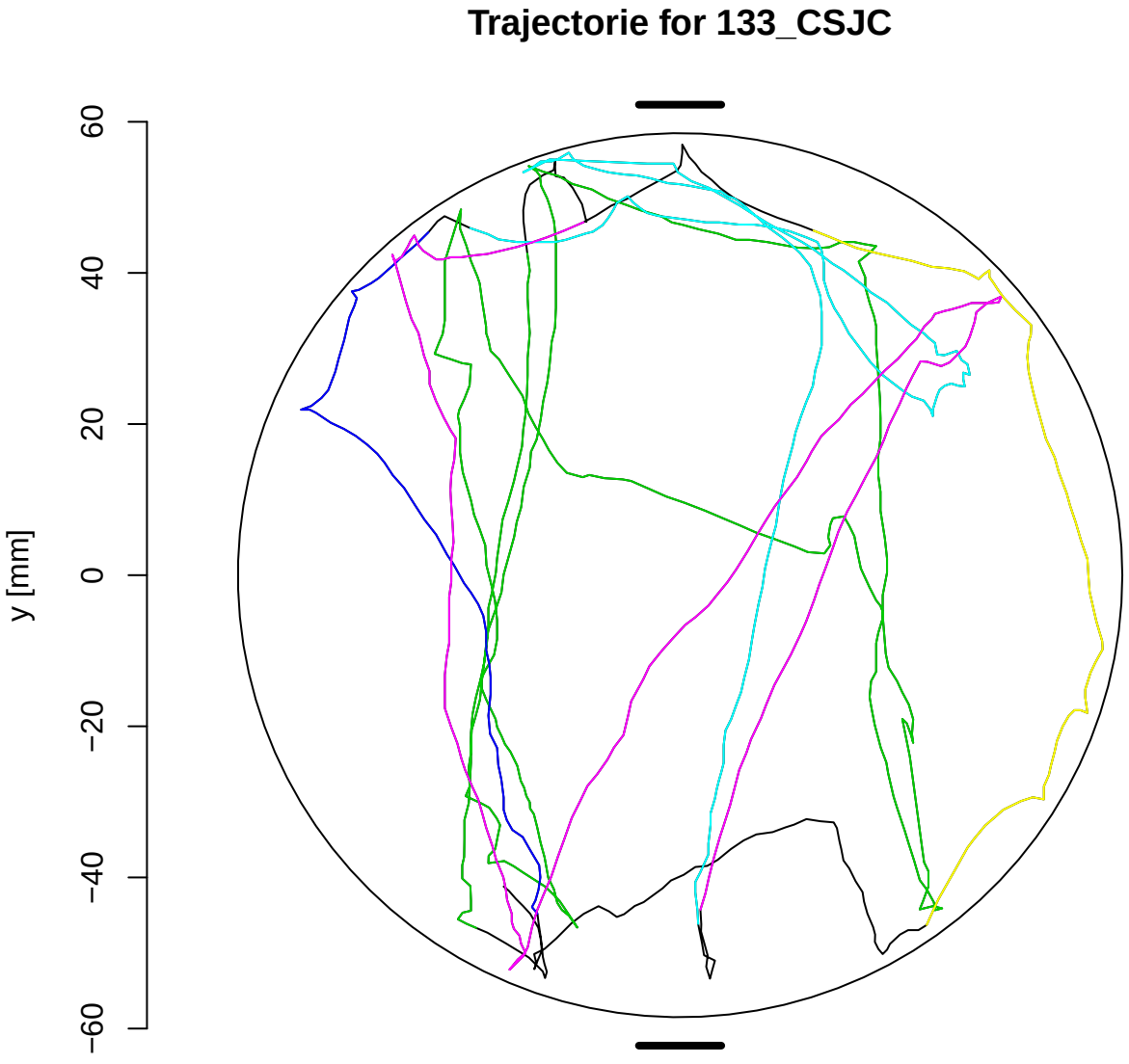
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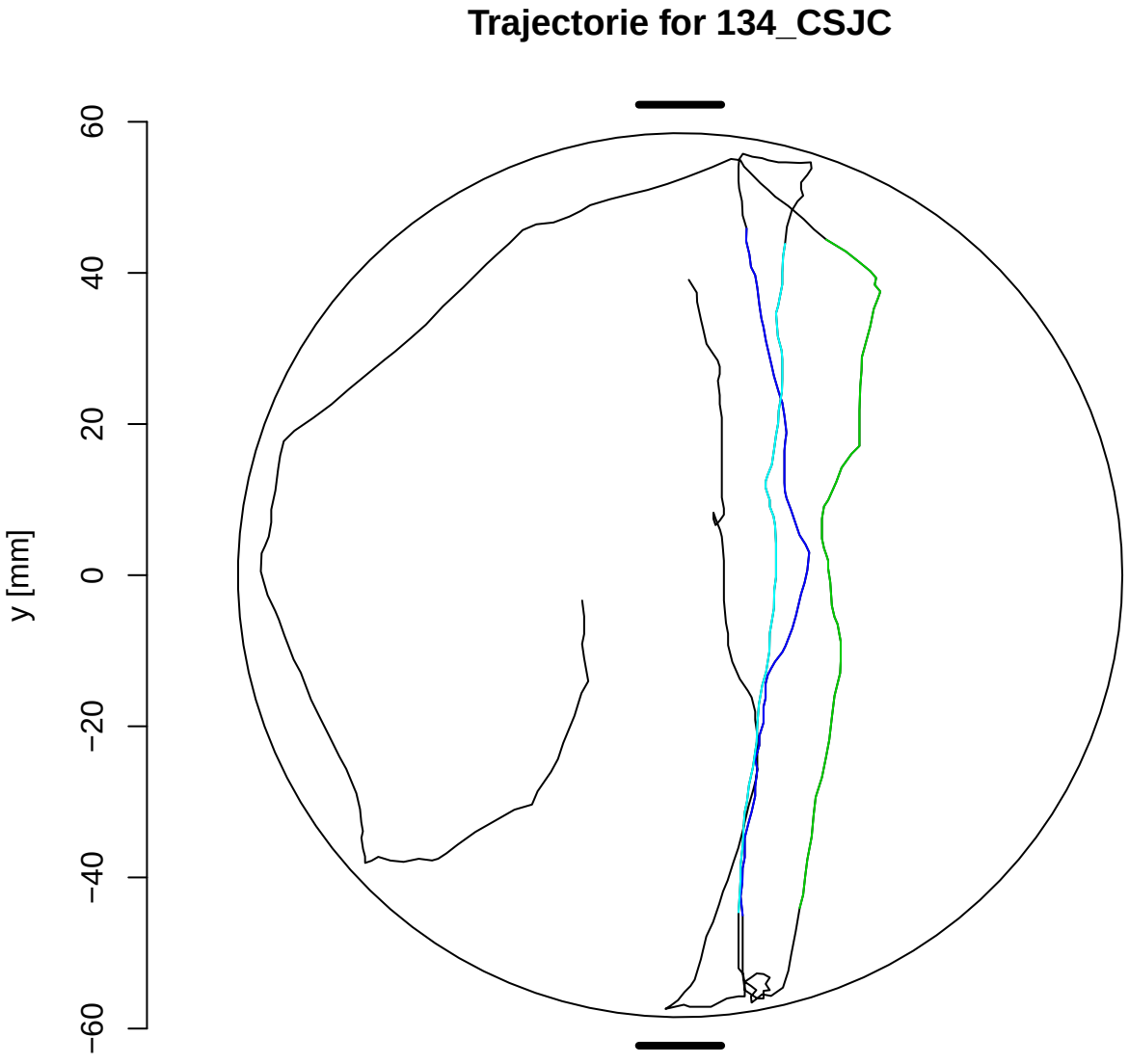
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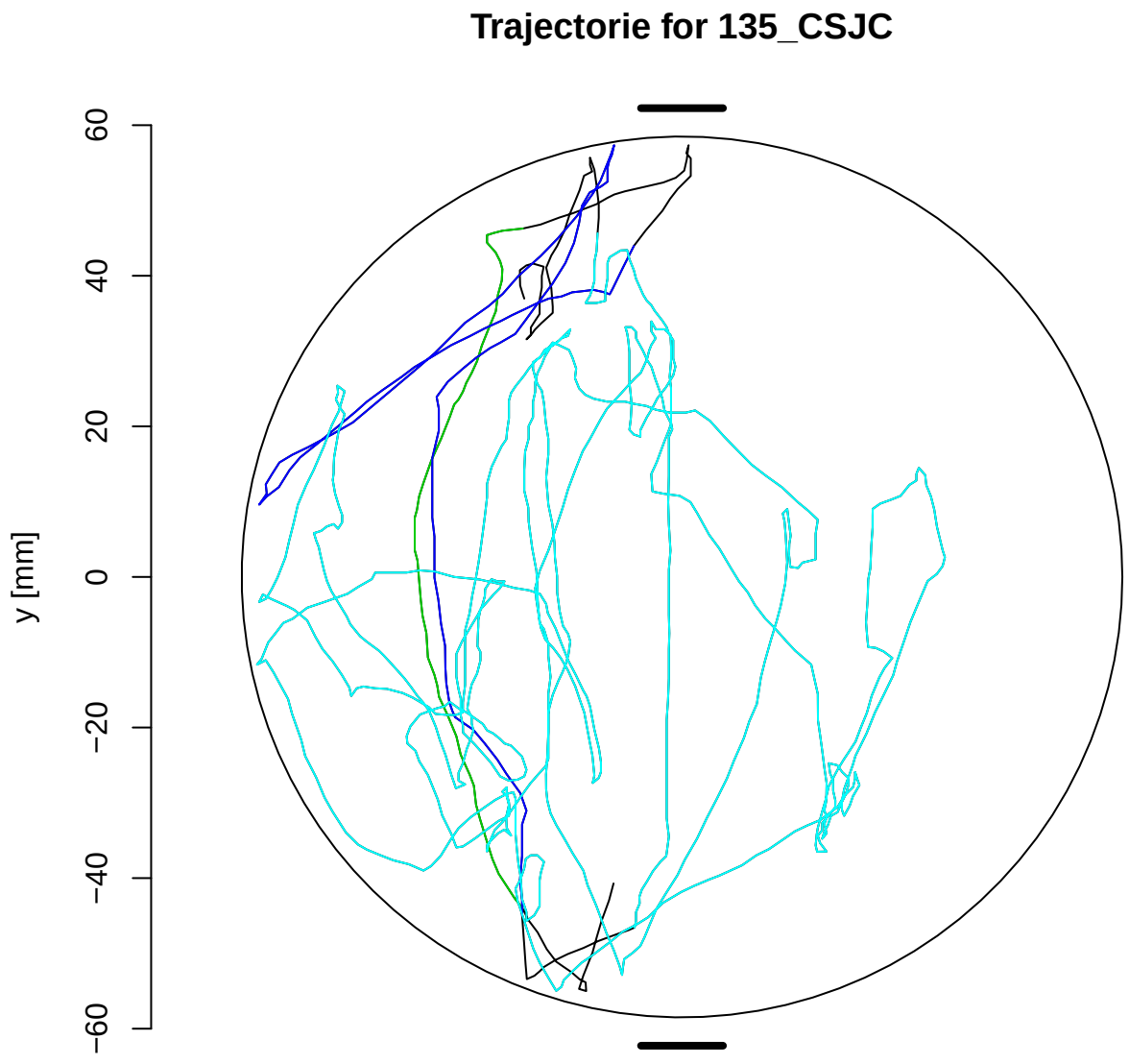
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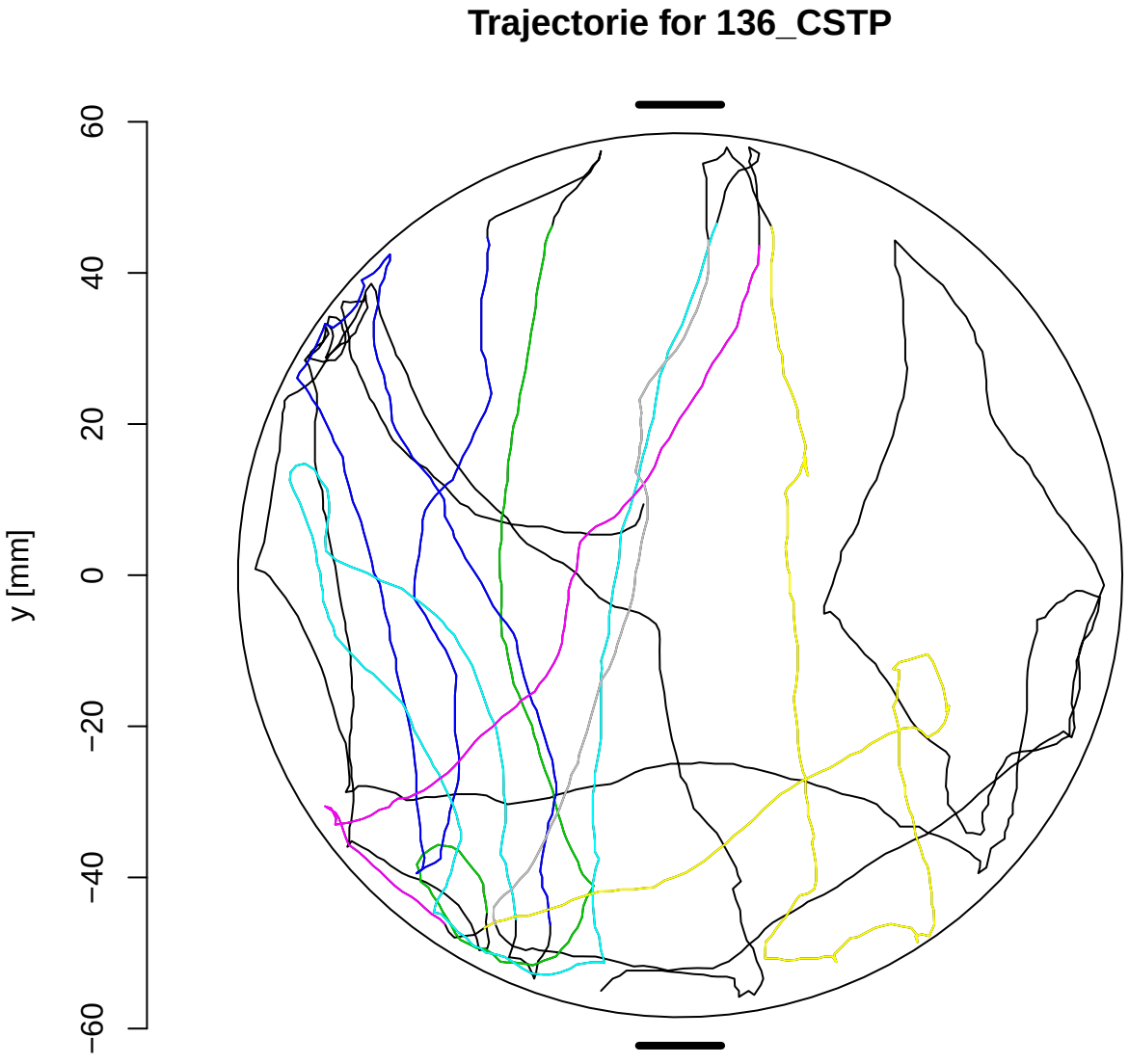
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y [mm]
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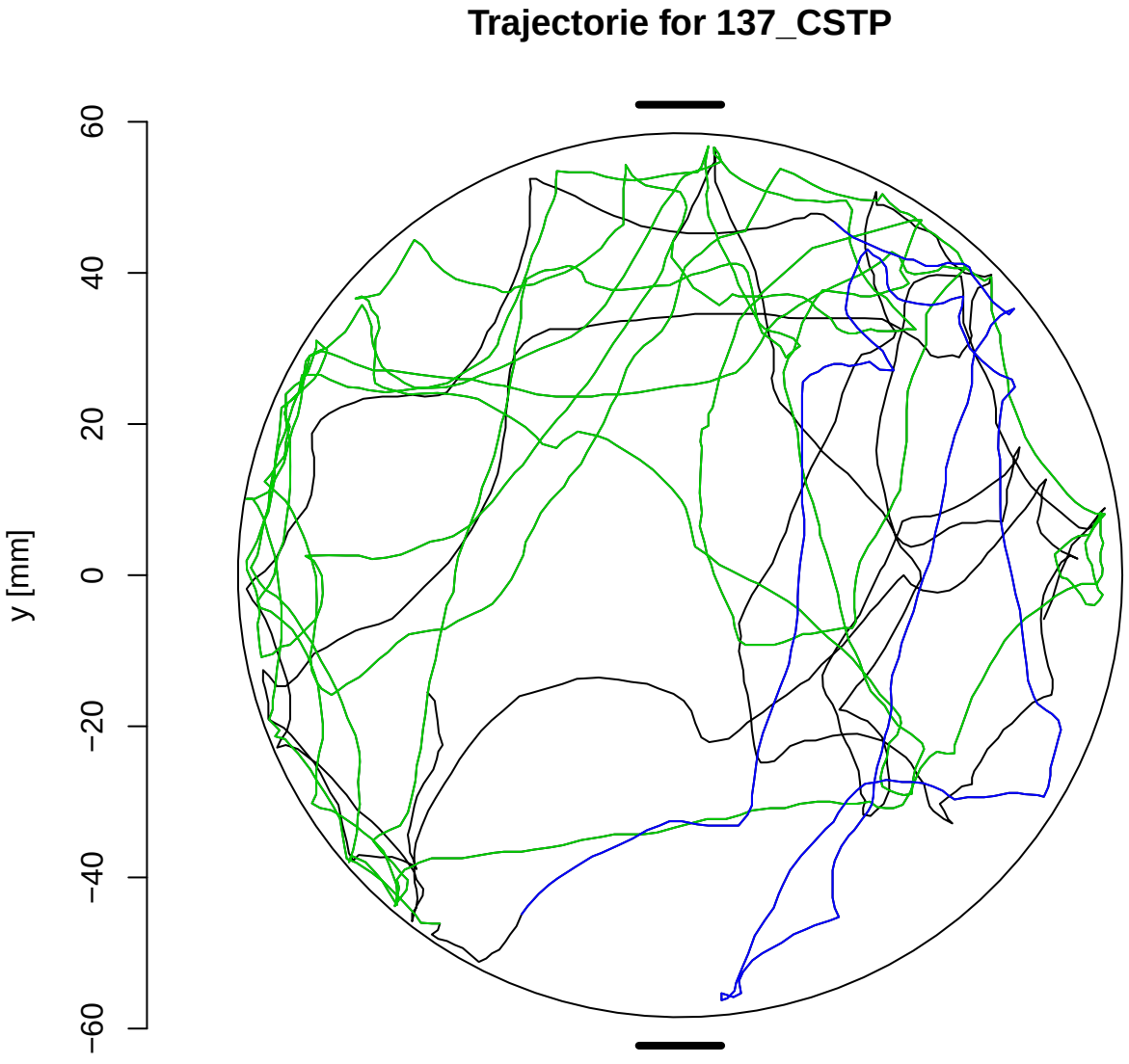
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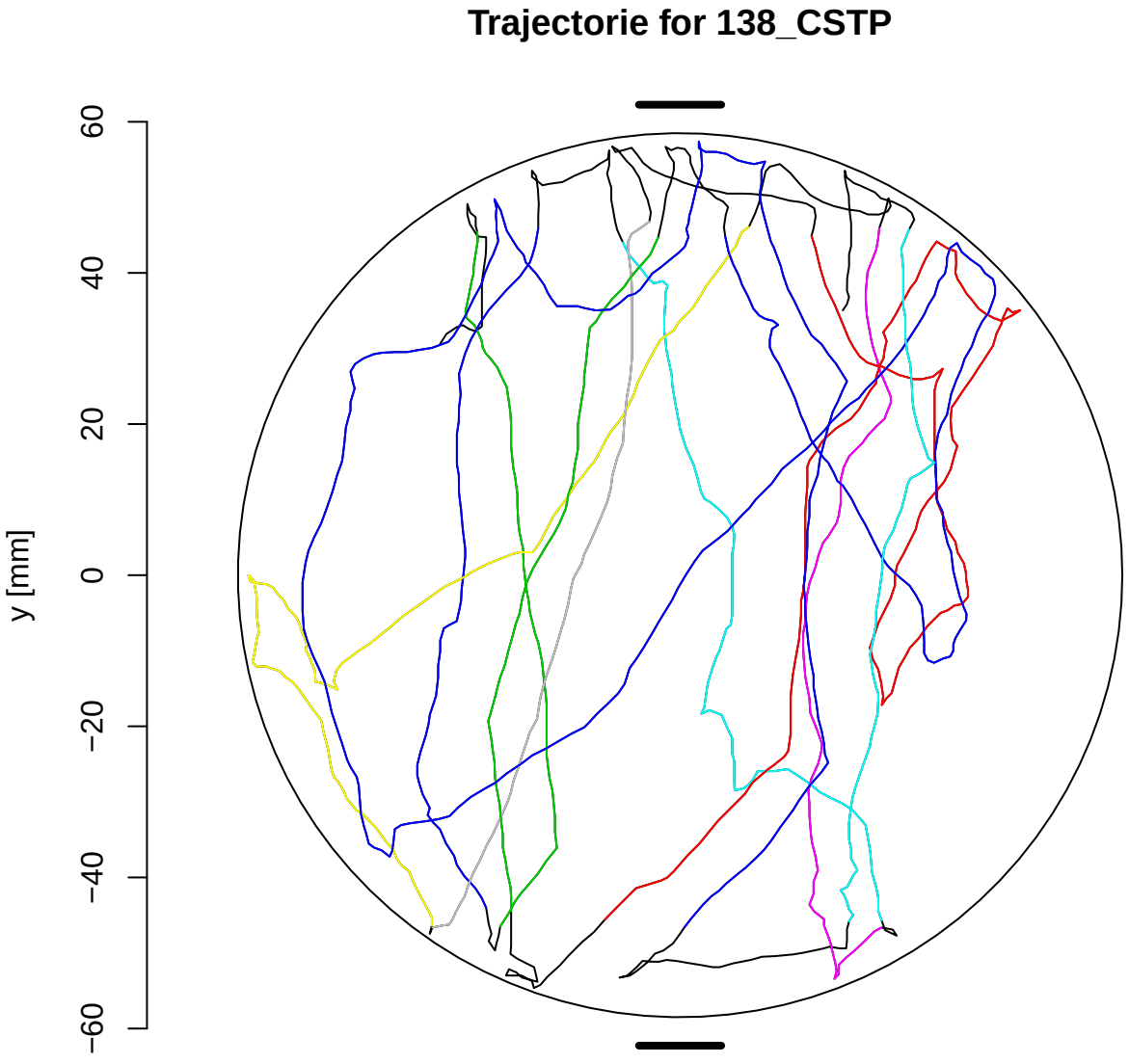
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y [mm]
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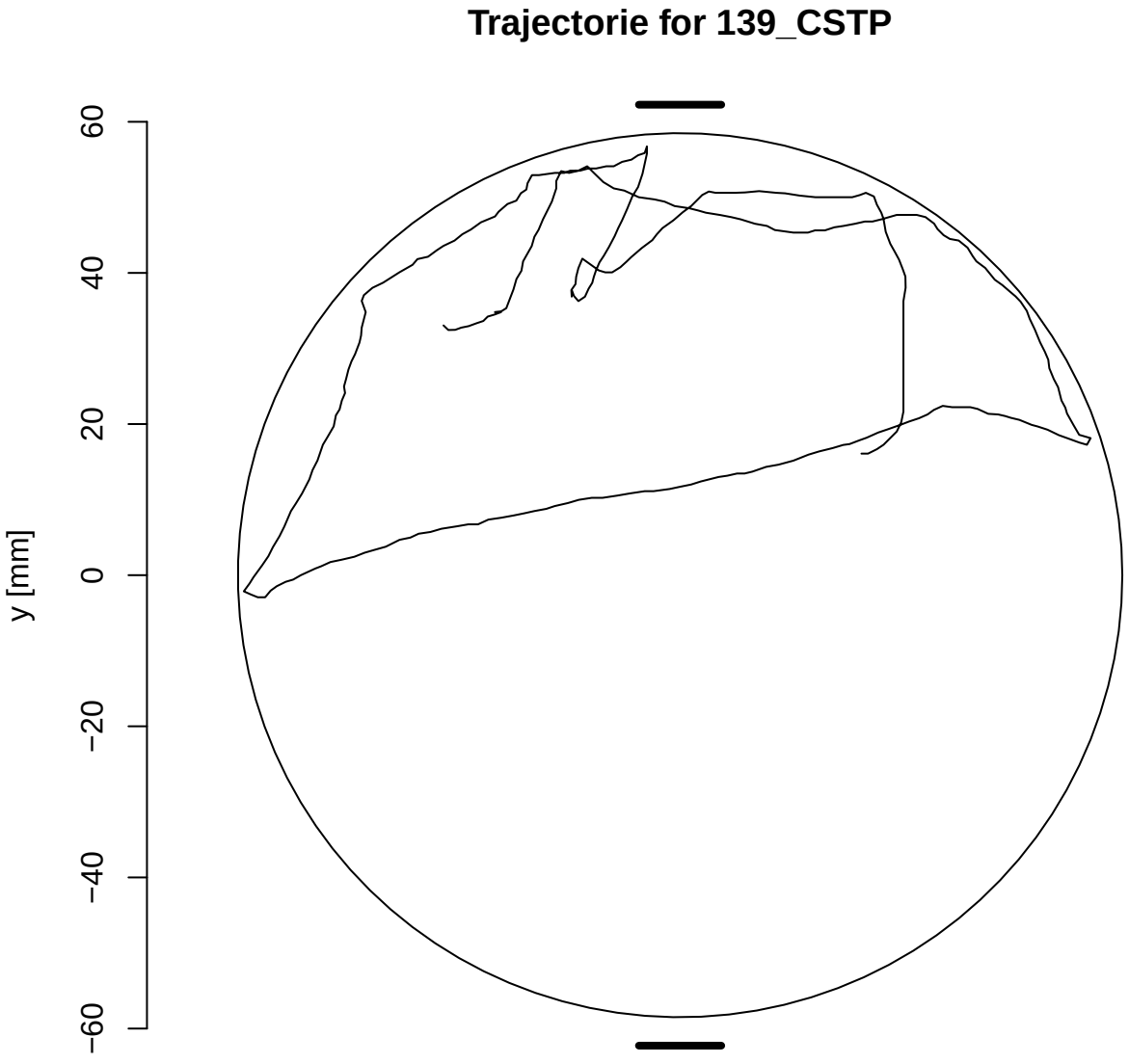
Trajectorie for 139_CSTP
y [mm]
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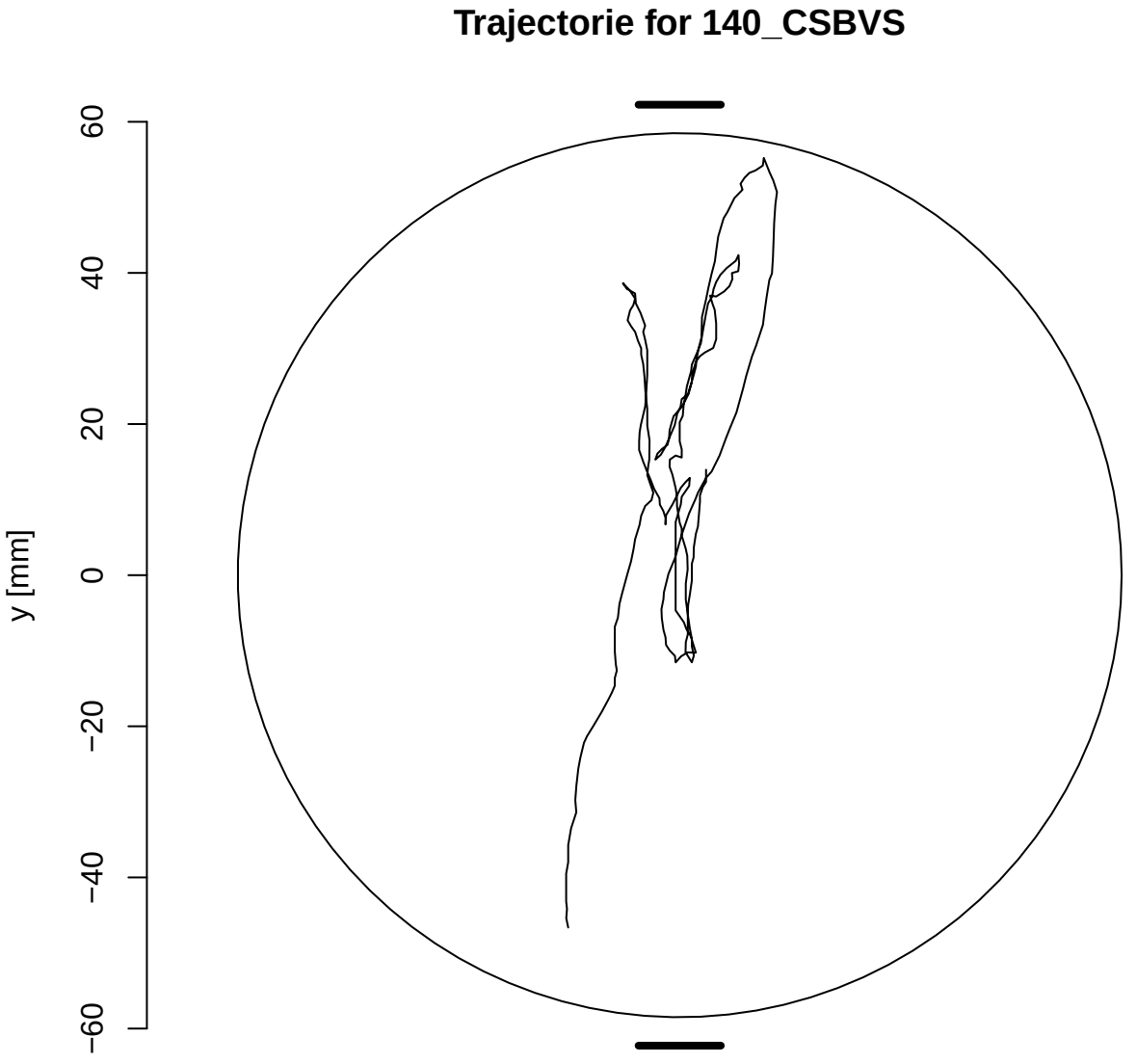
Trajectorie for 140_CSBVS
y [mm]
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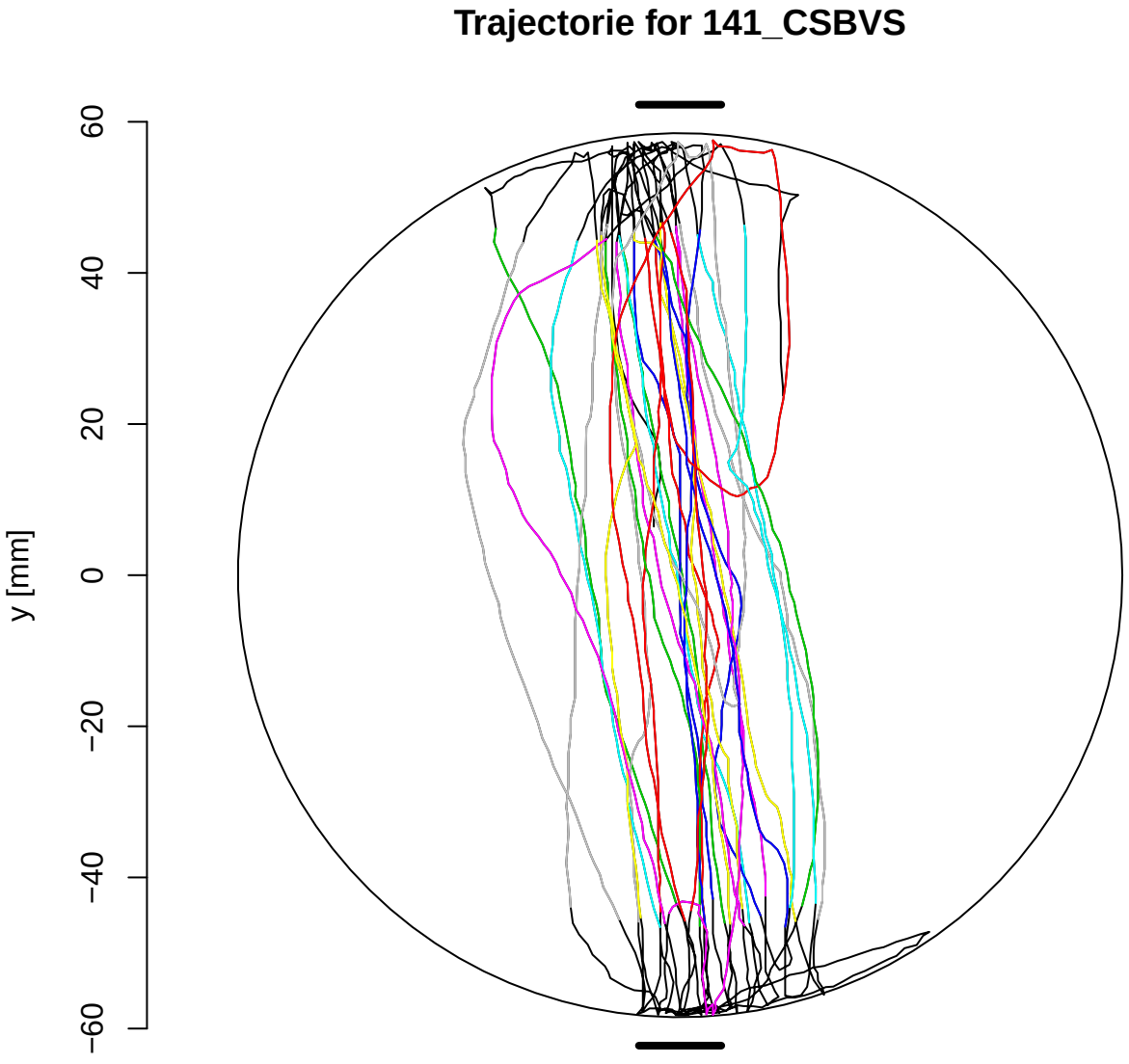
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y [mm]
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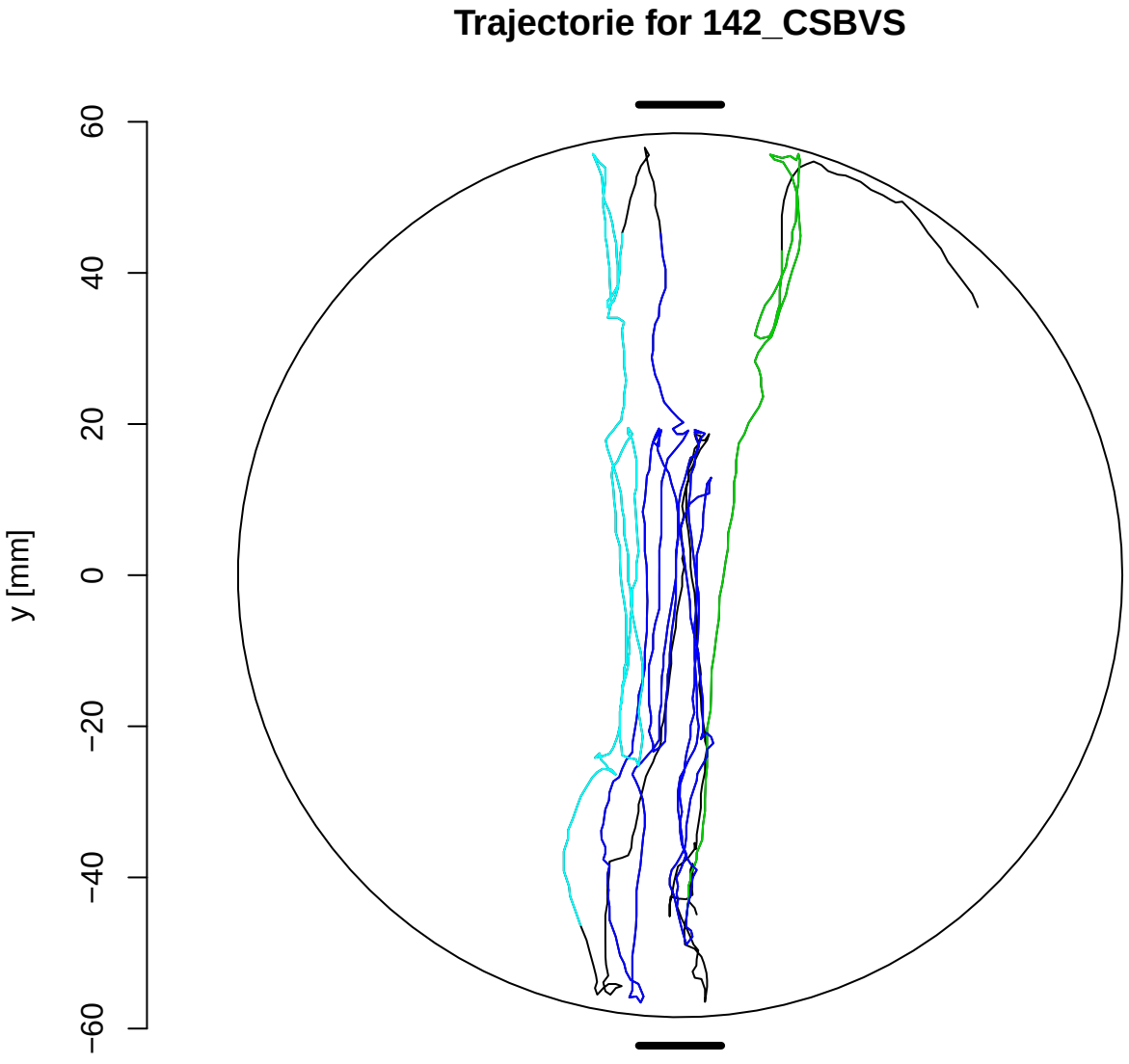
Trajectorie for 142_CSBVS
y [mm]
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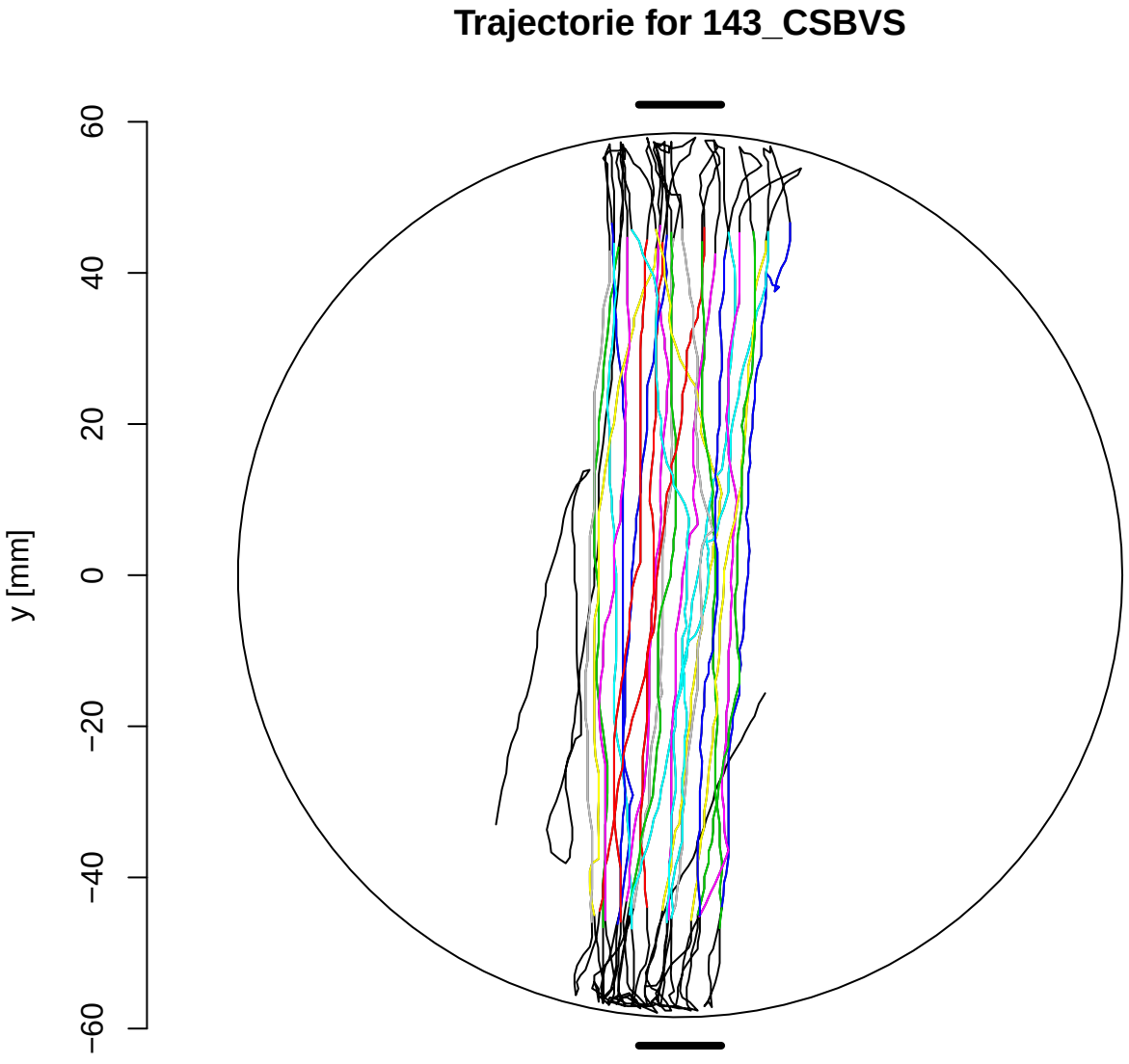
Trajectorie for 143_CSBVS
y [mm]
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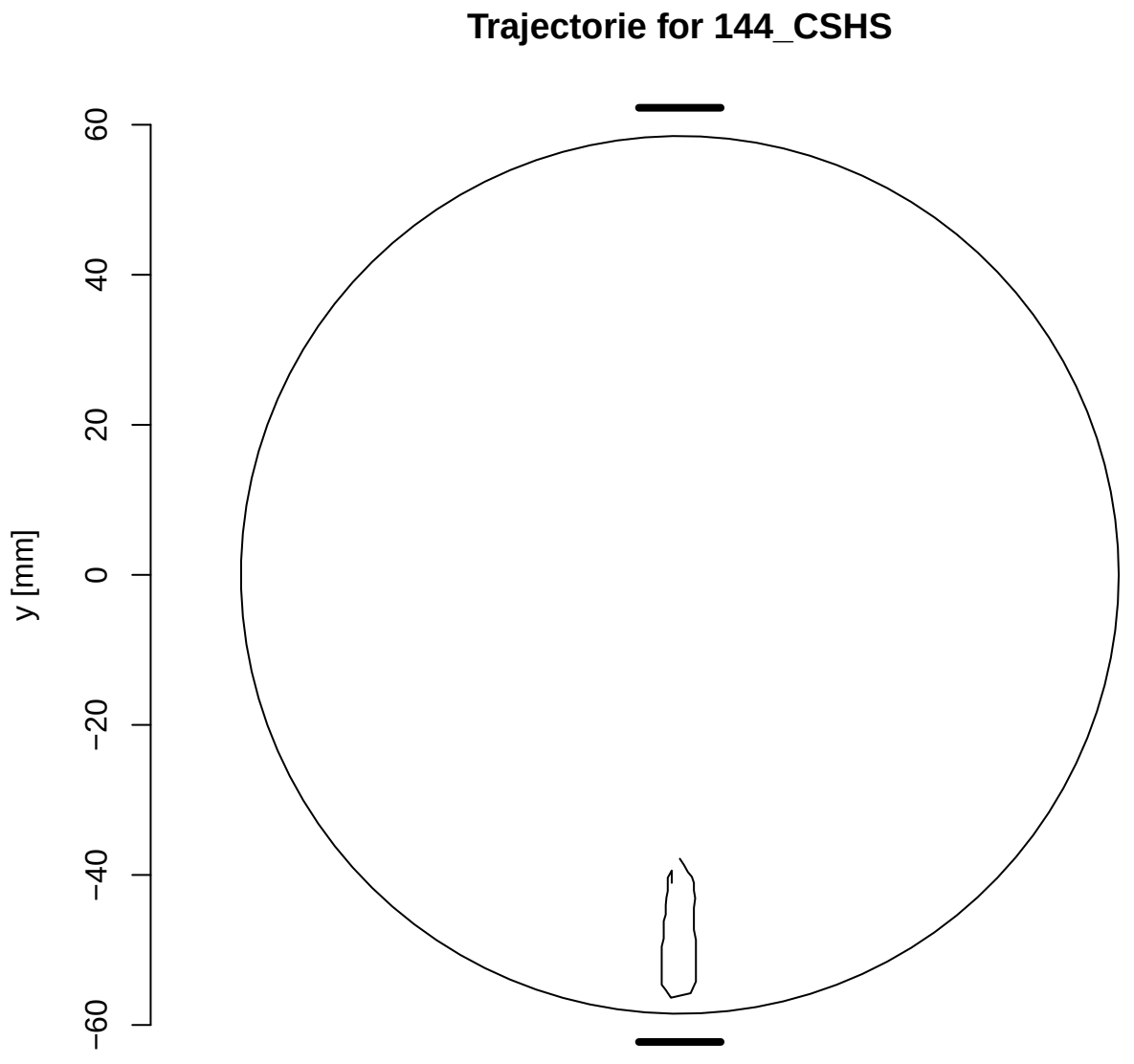
Trajectorie for 144_CSHS
y [mm]
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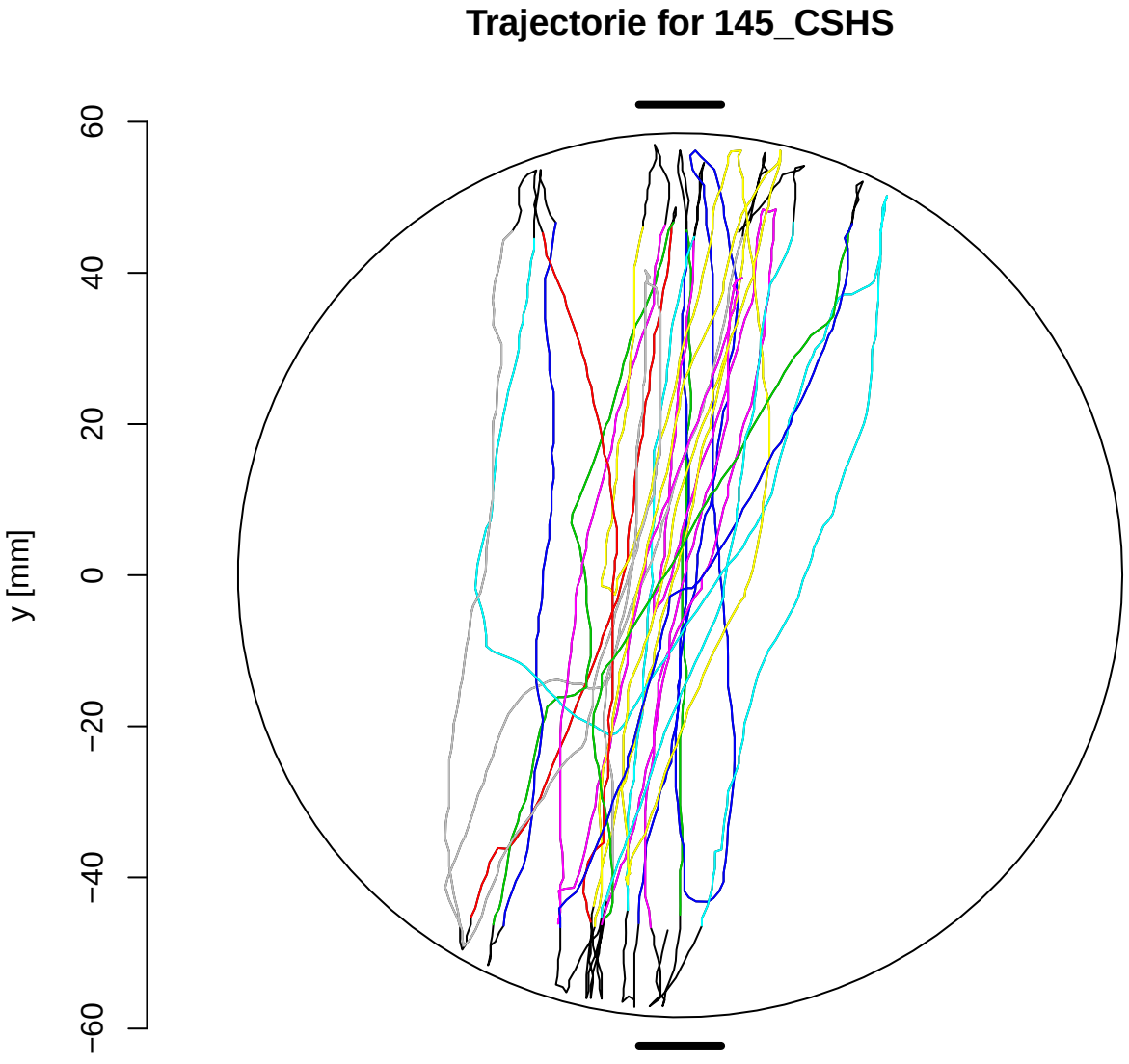
Trajectorie for 145_CSHS
y [mm]
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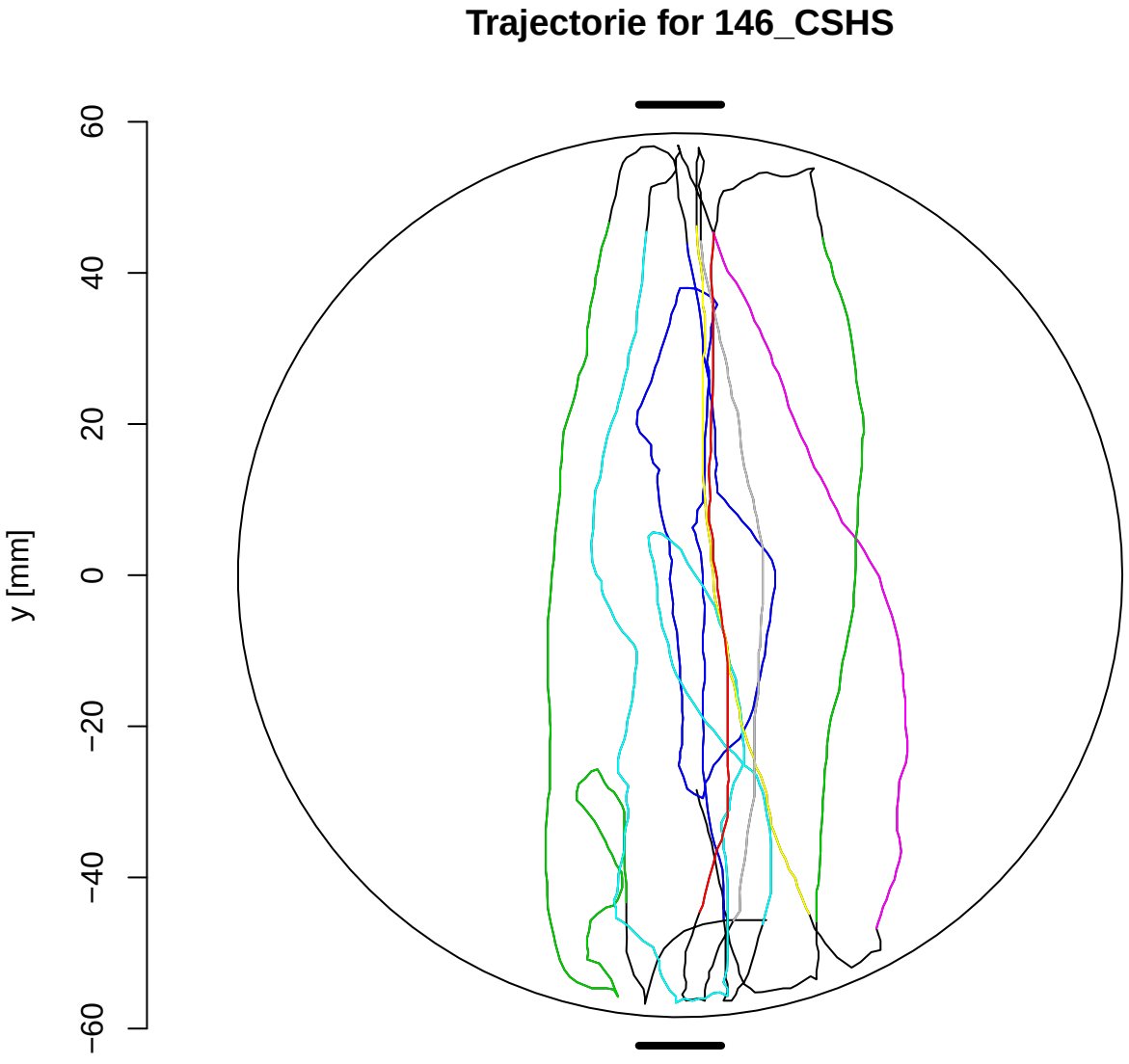
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y [mm]
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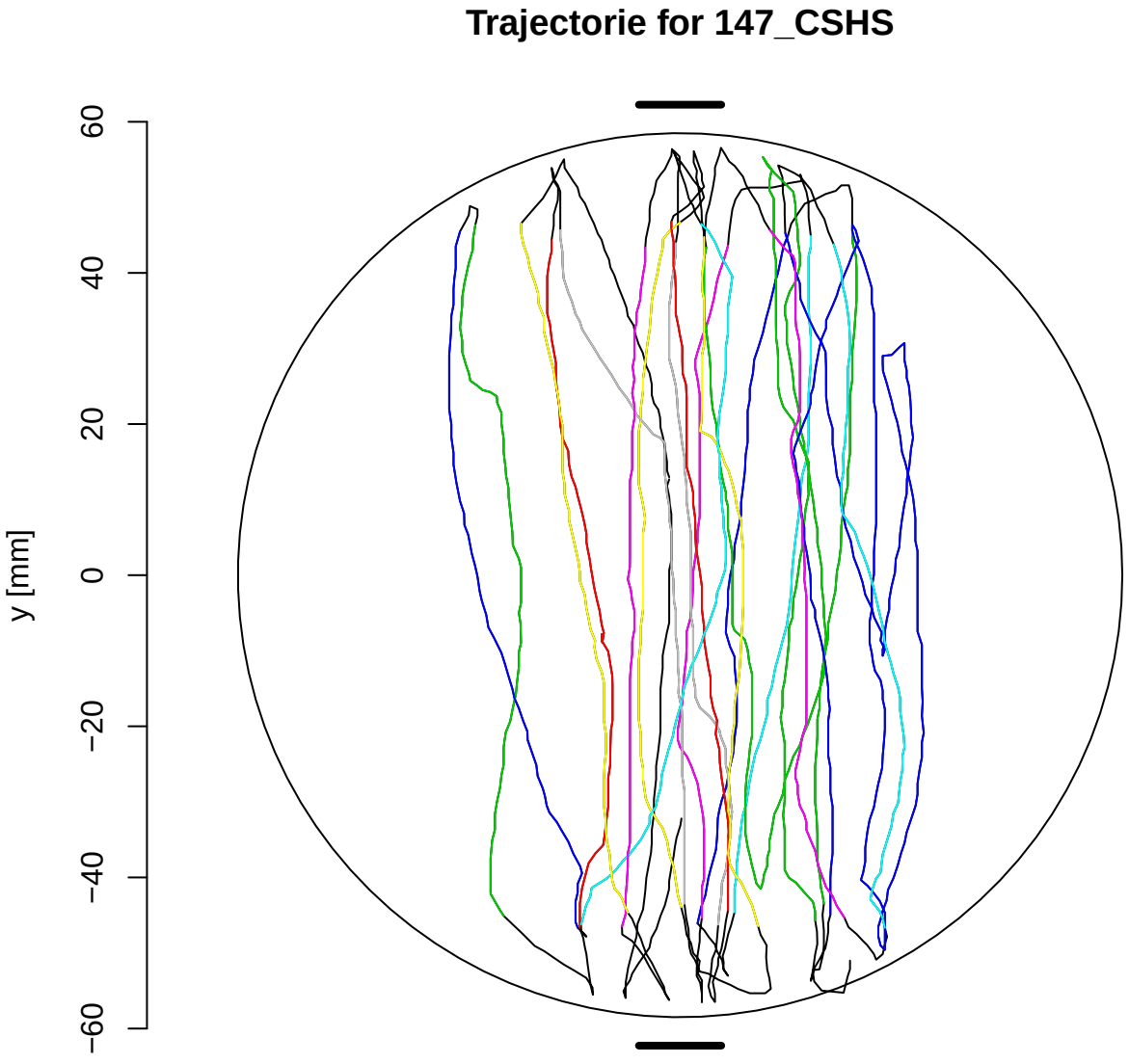
Trajectorie for 147_CSHS
y [mm]
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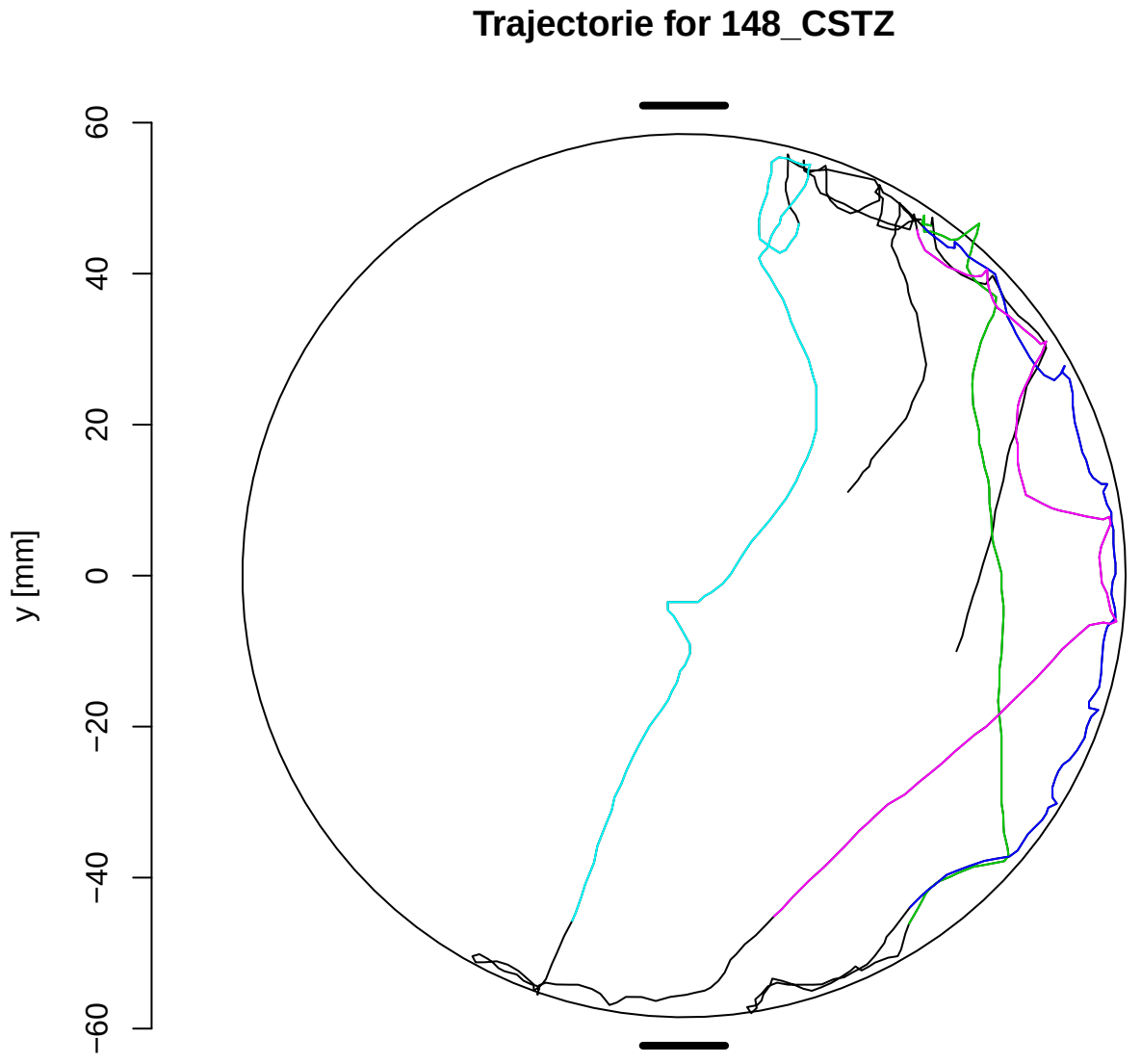
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y [mm]
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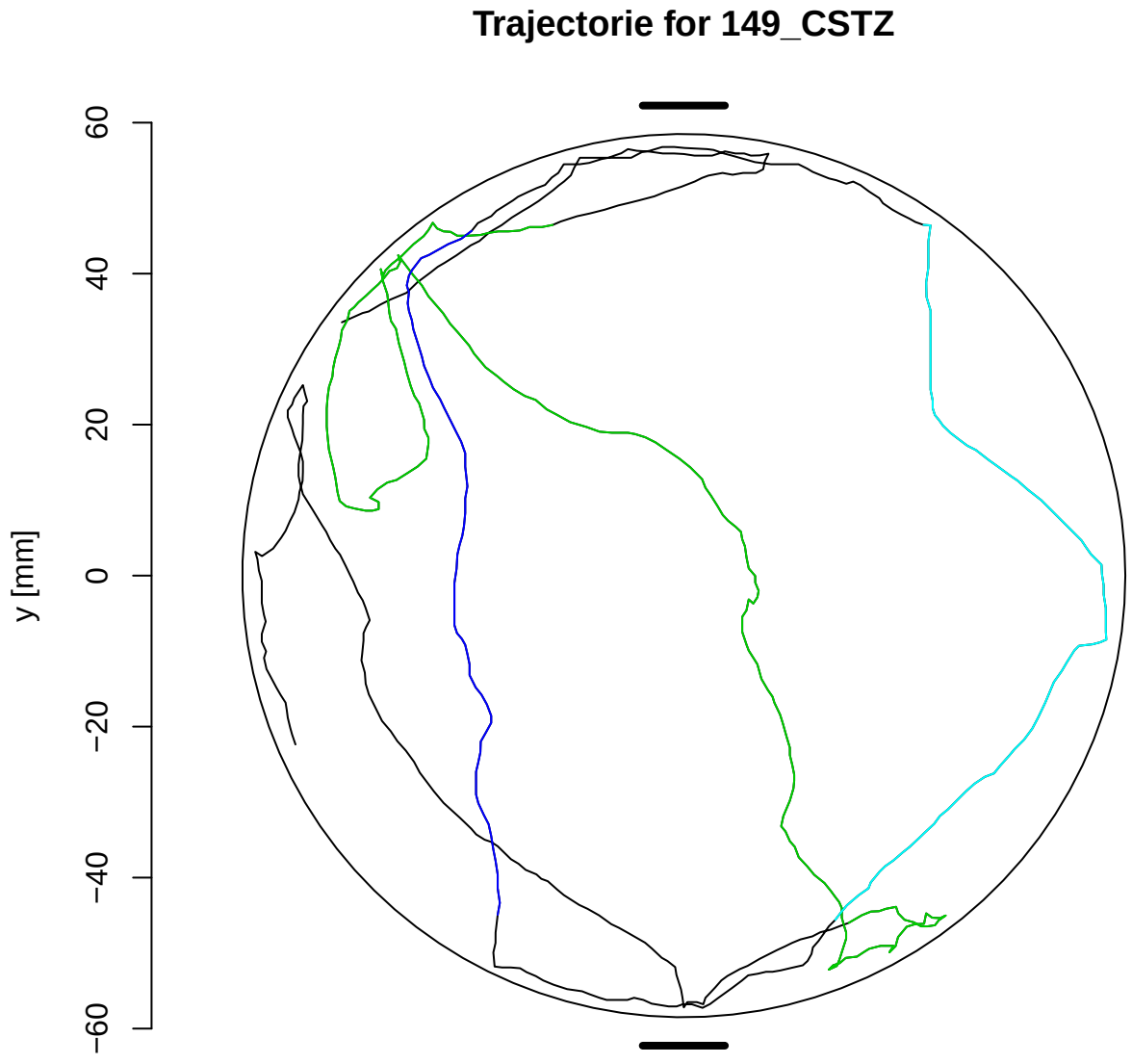
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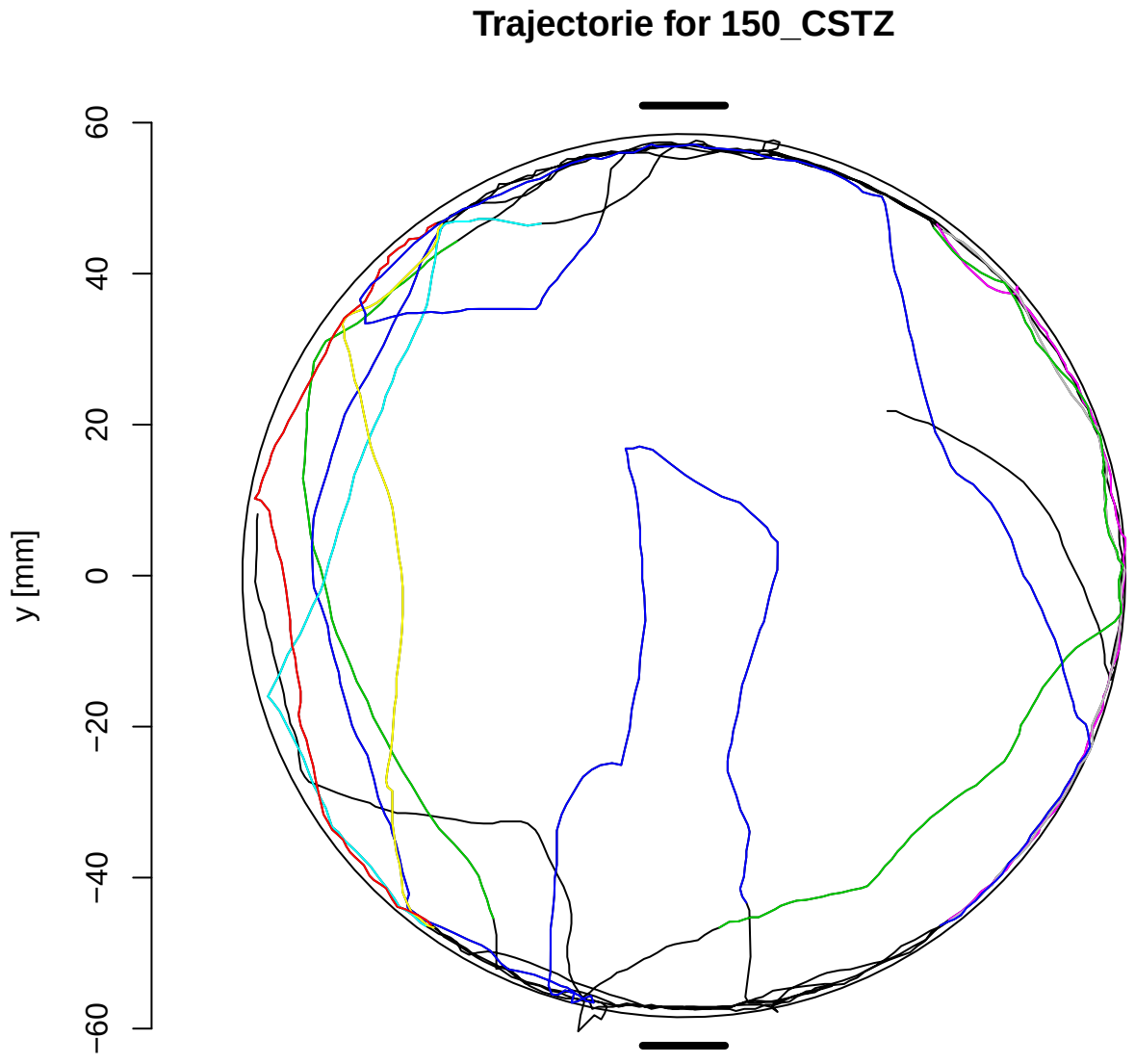
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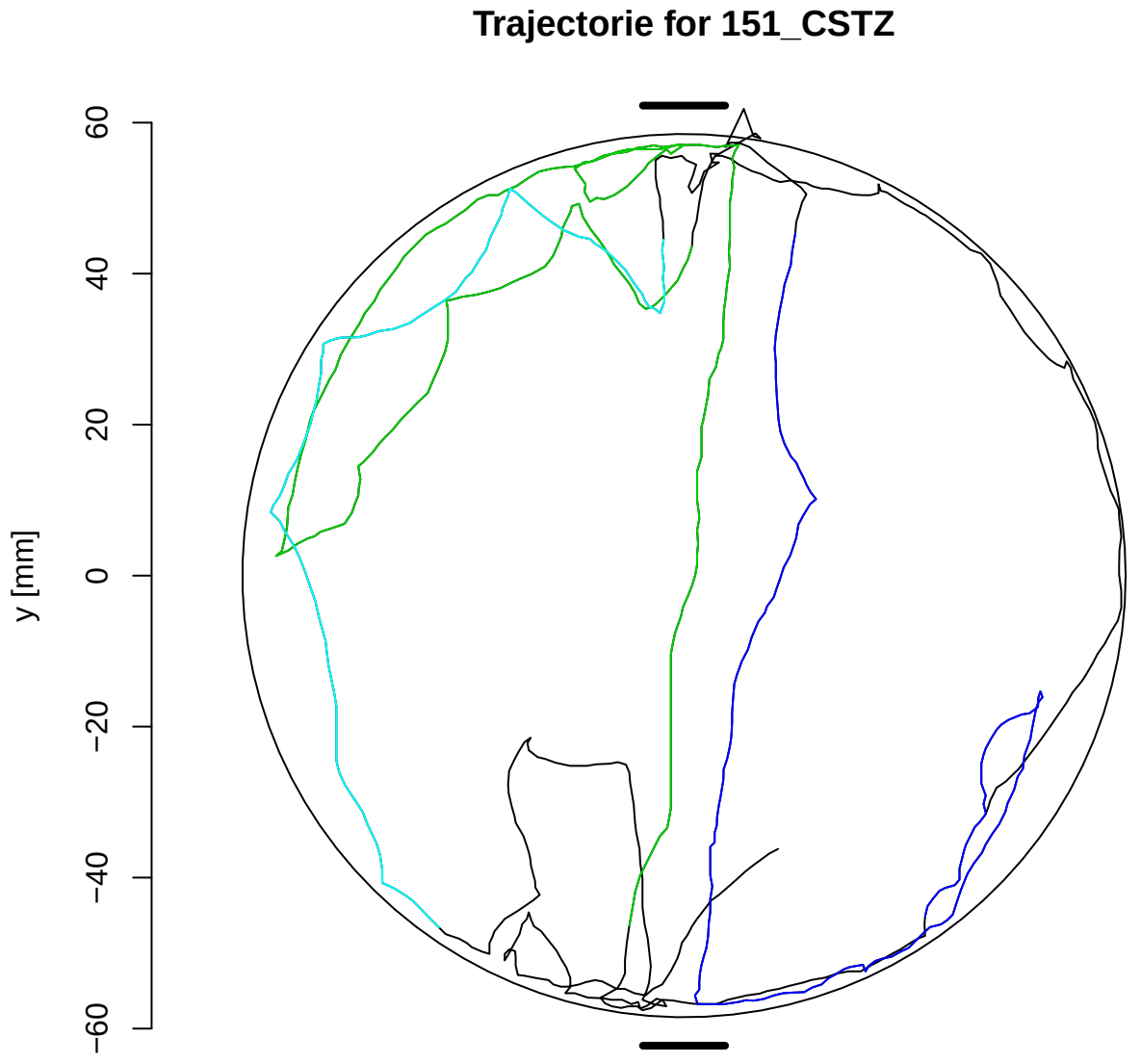
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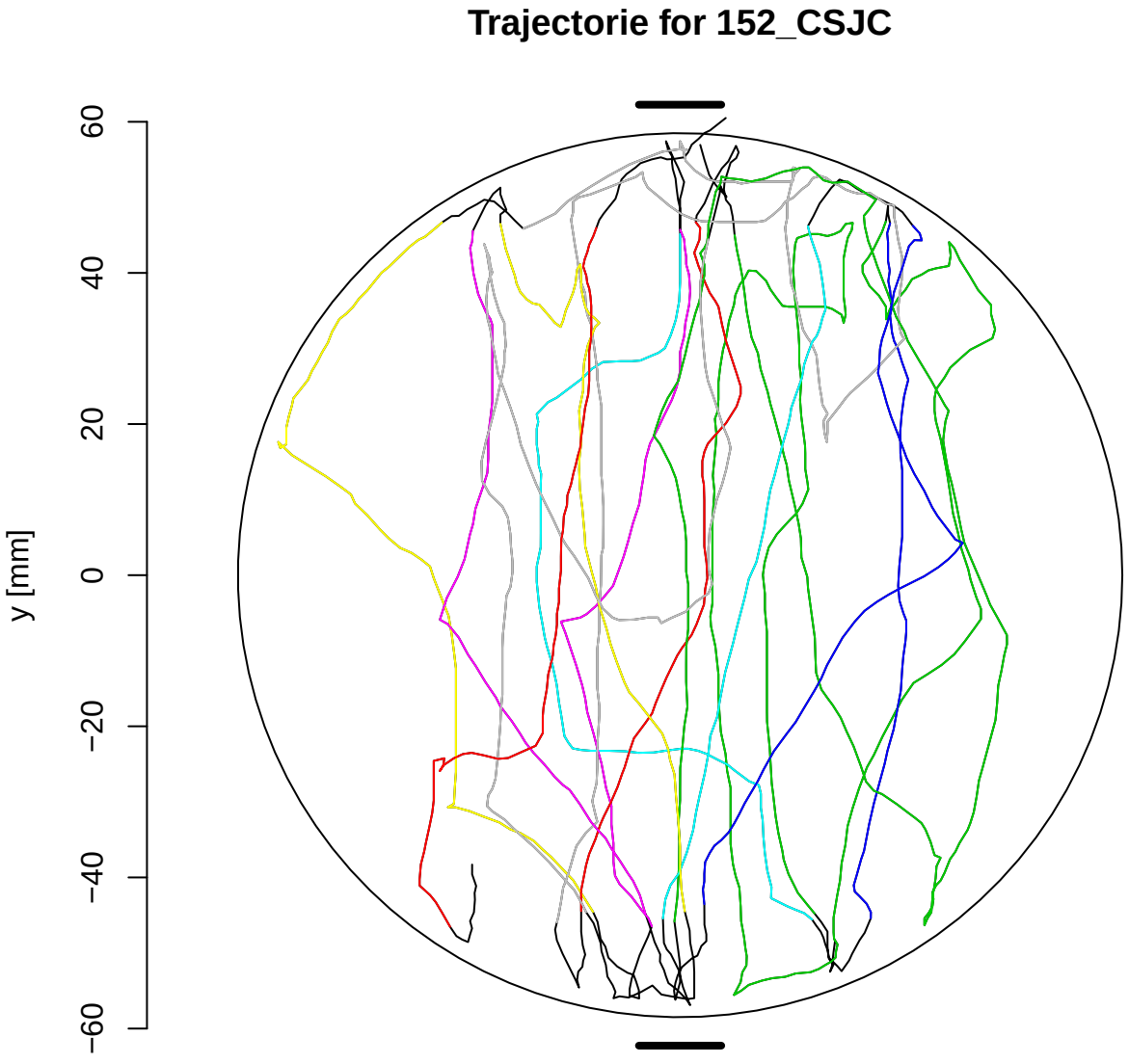
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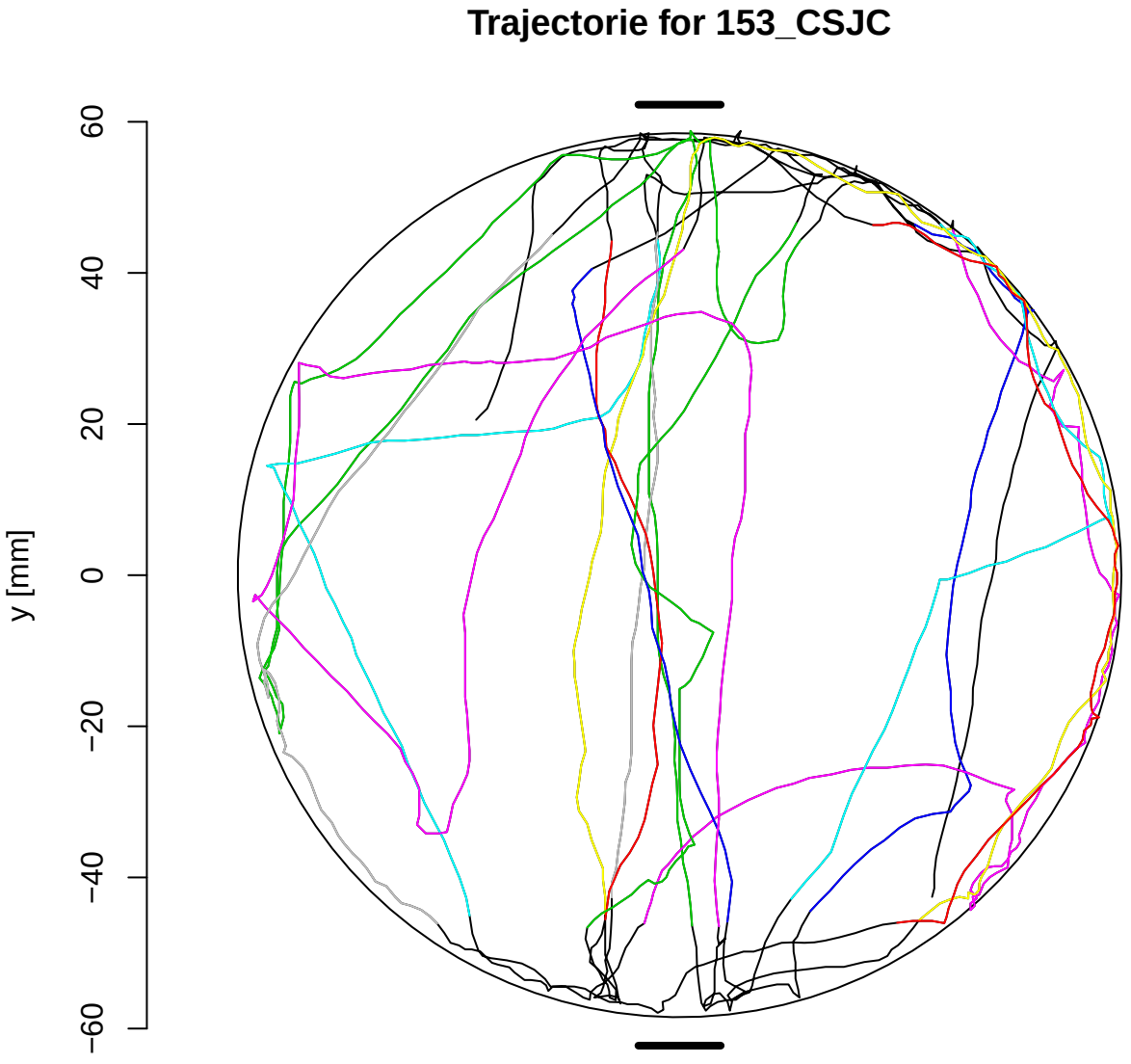
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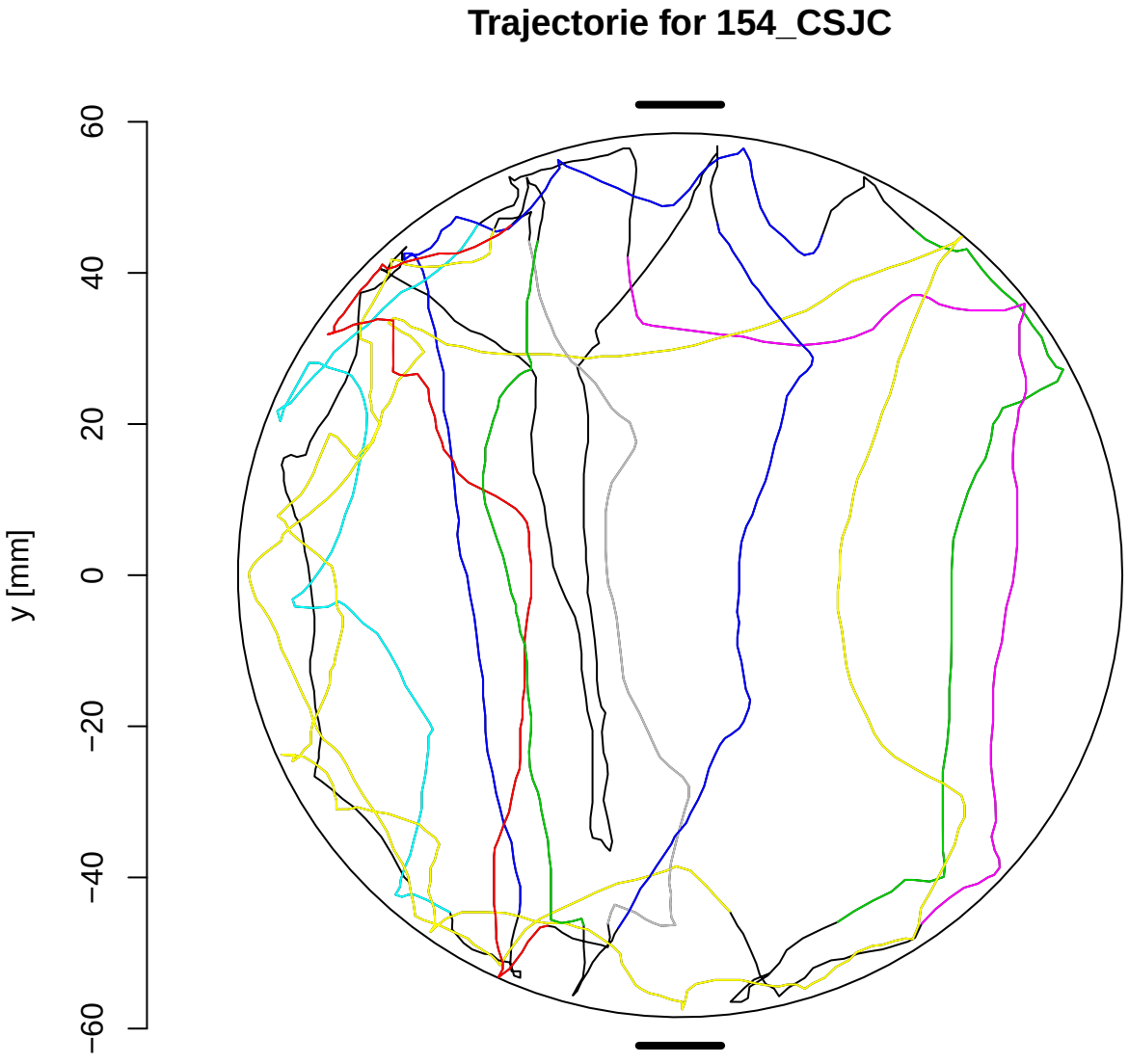
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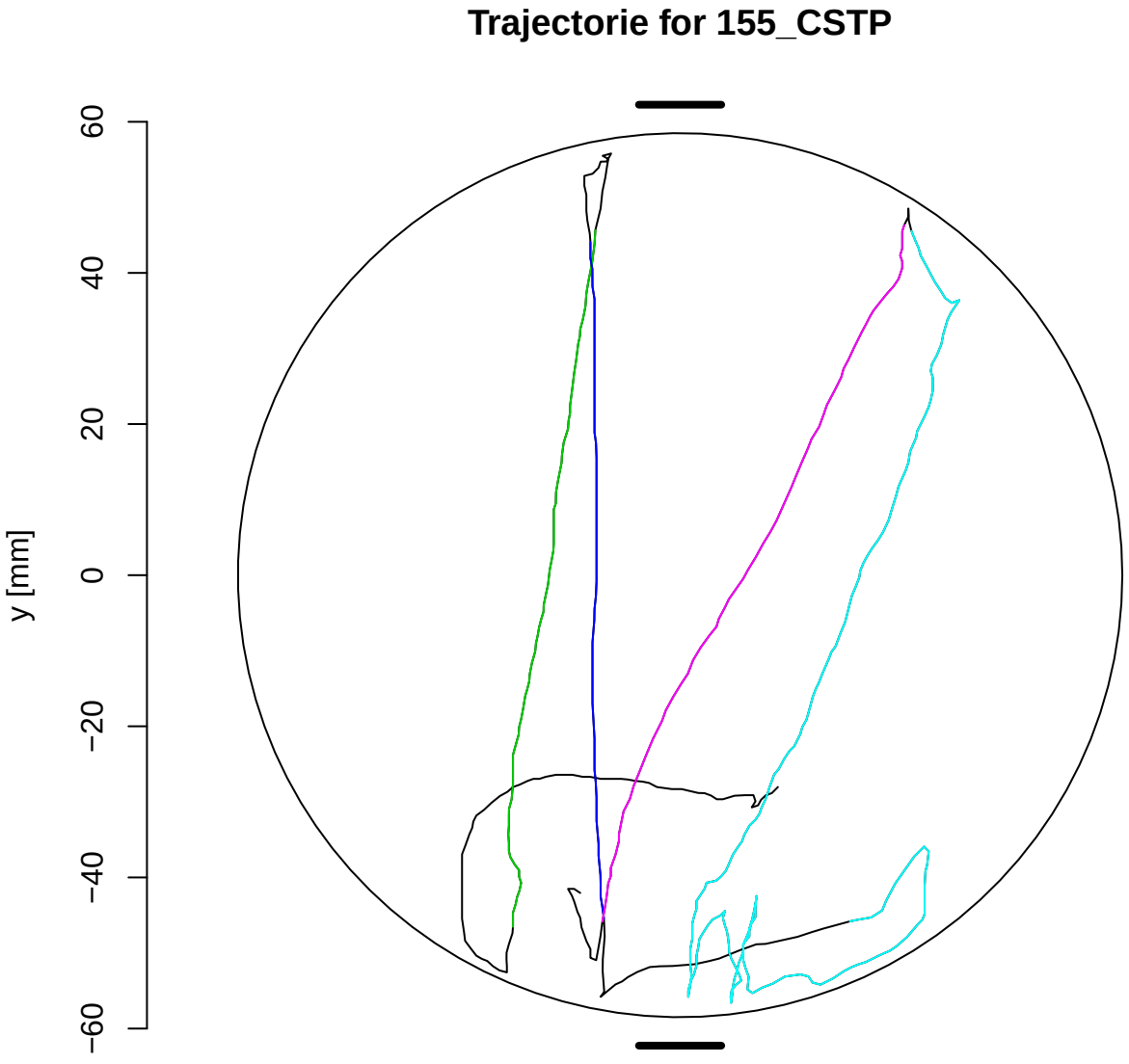
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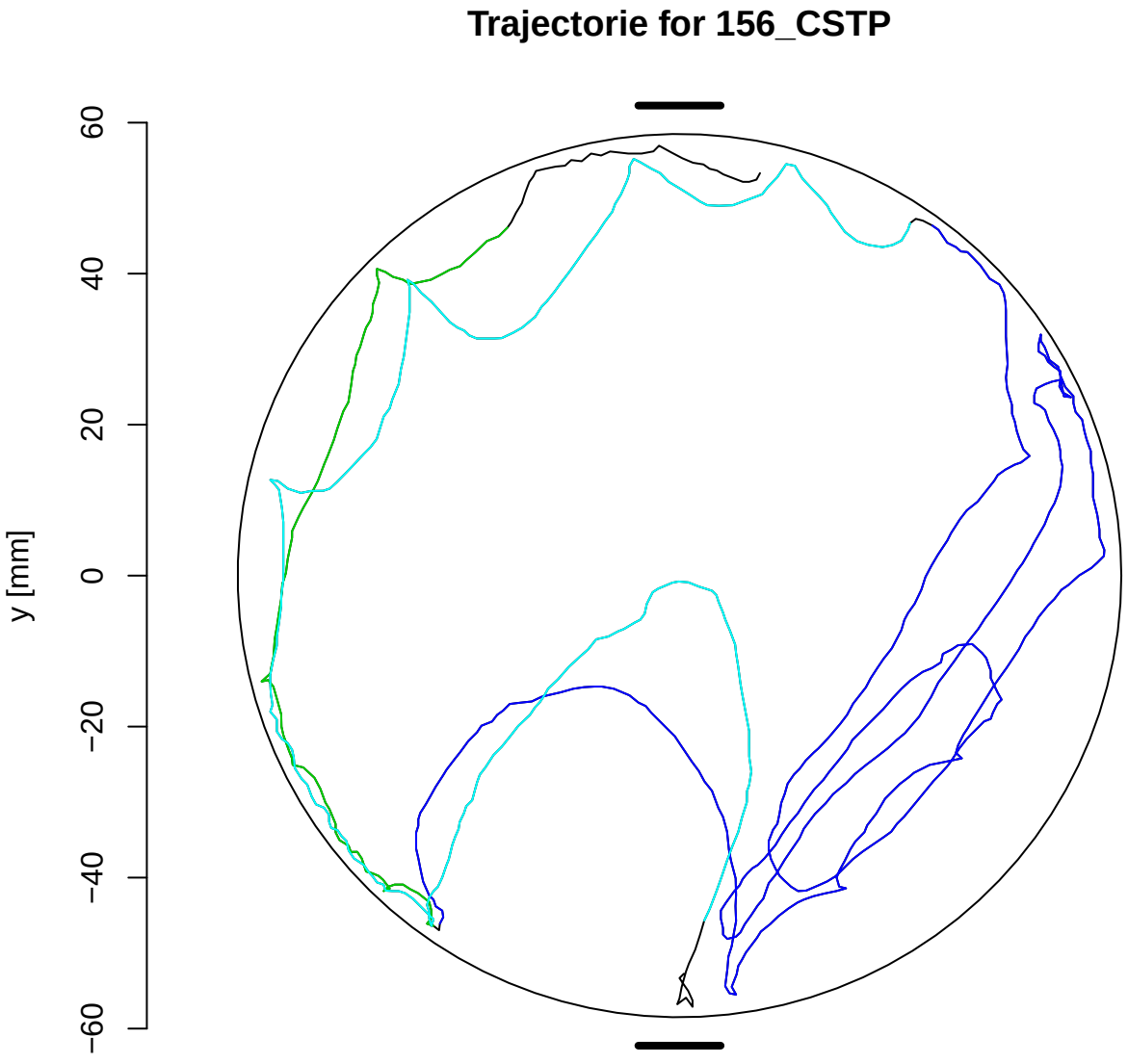
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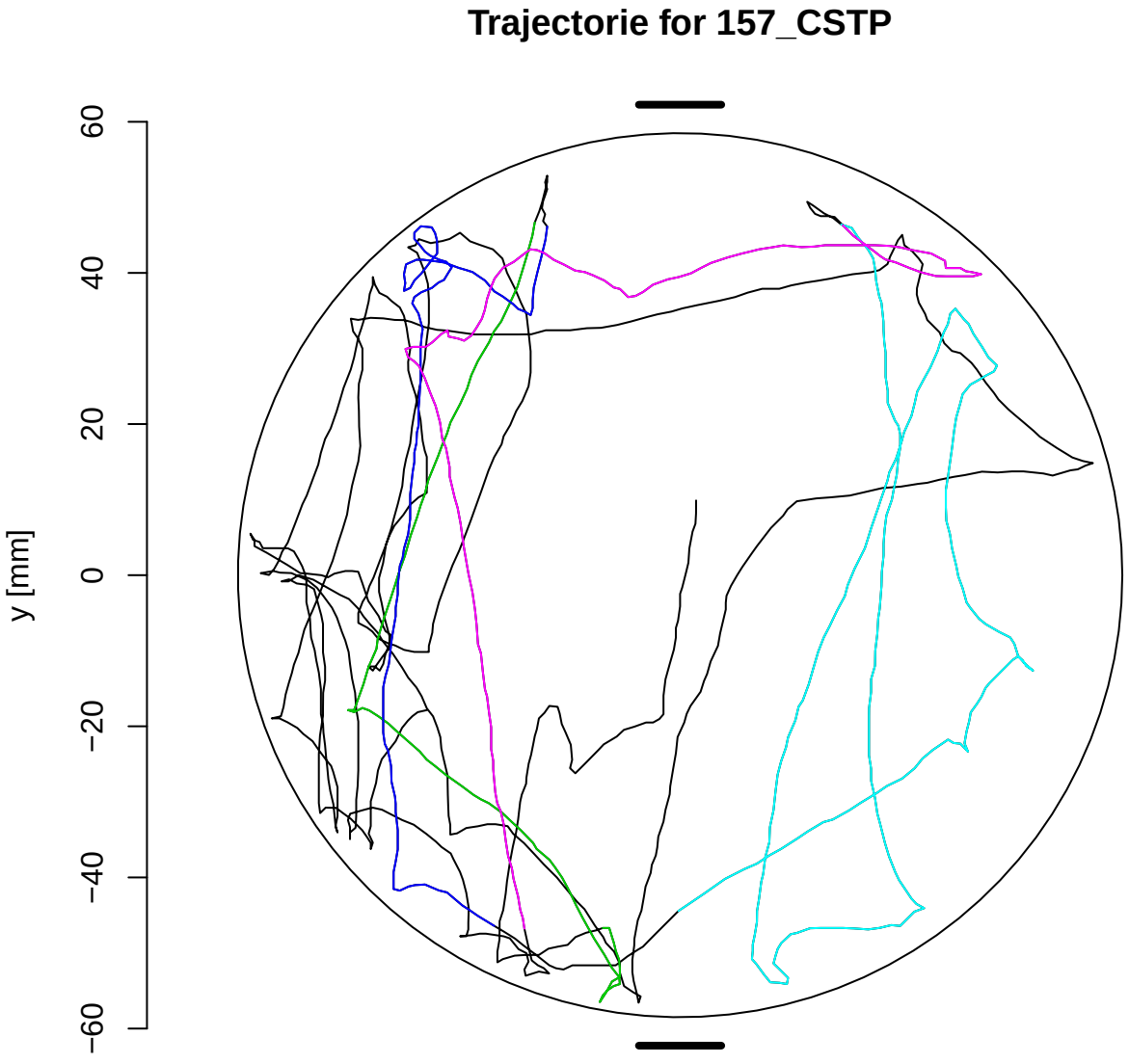
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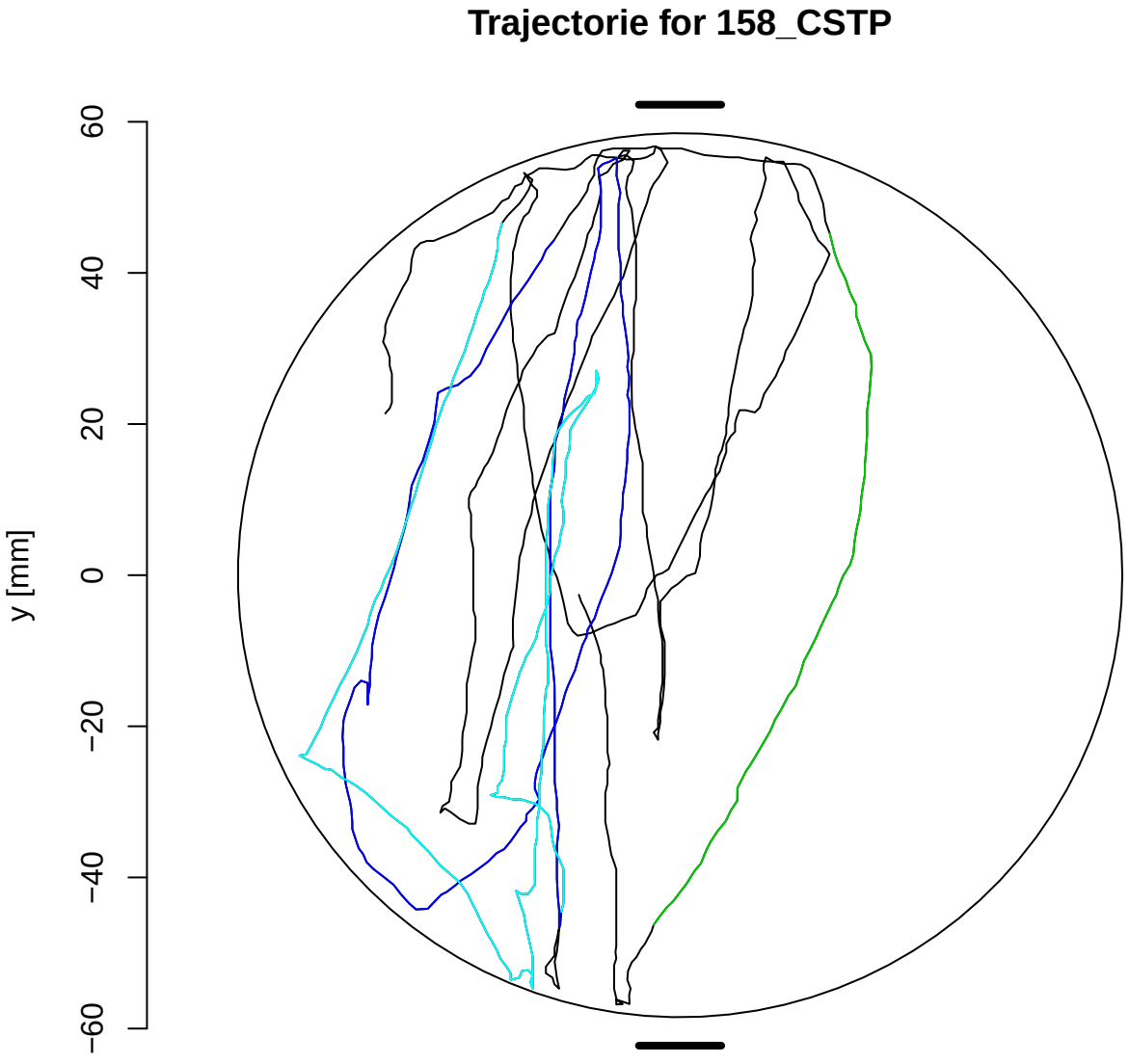
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y [mm]
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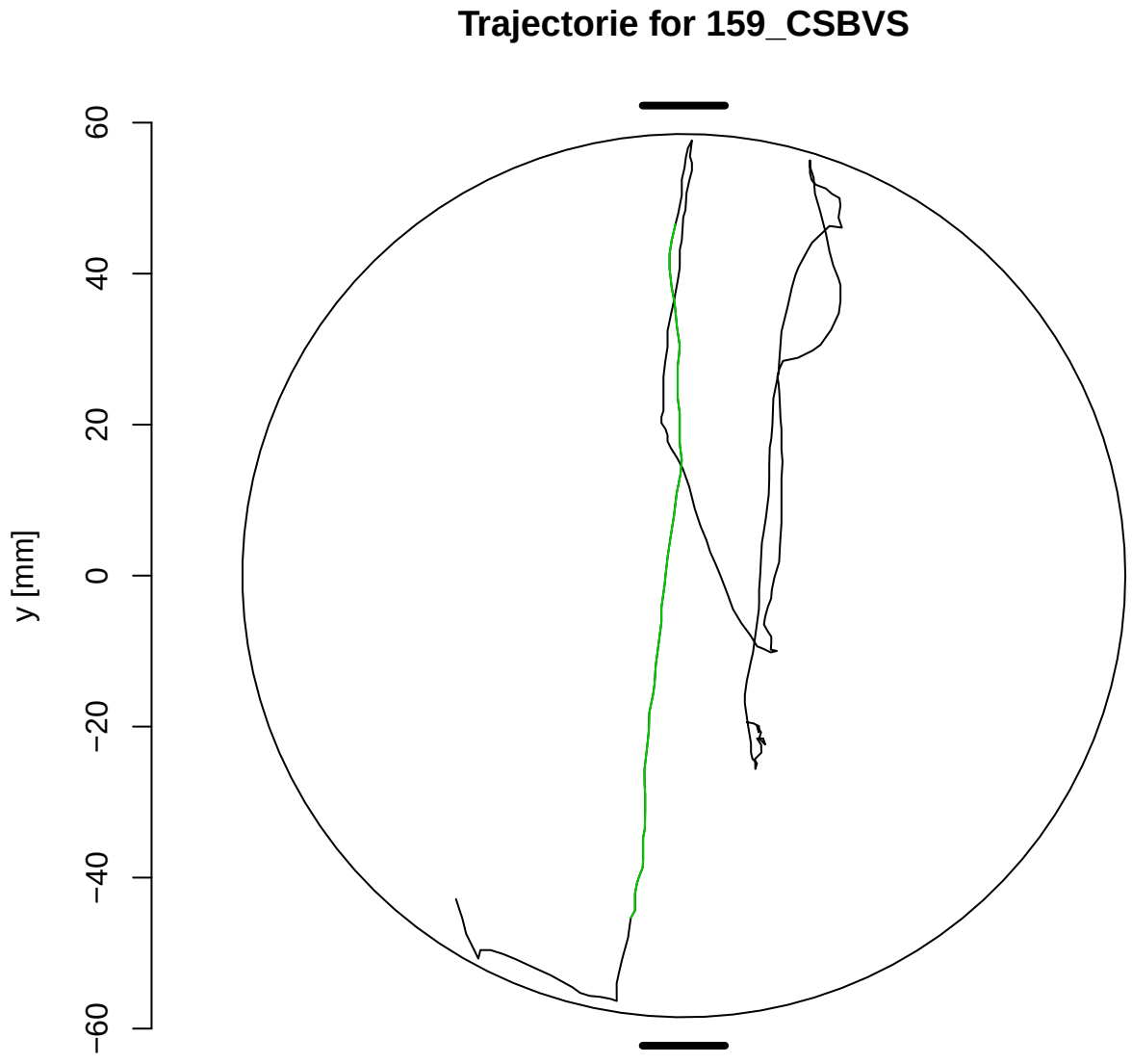
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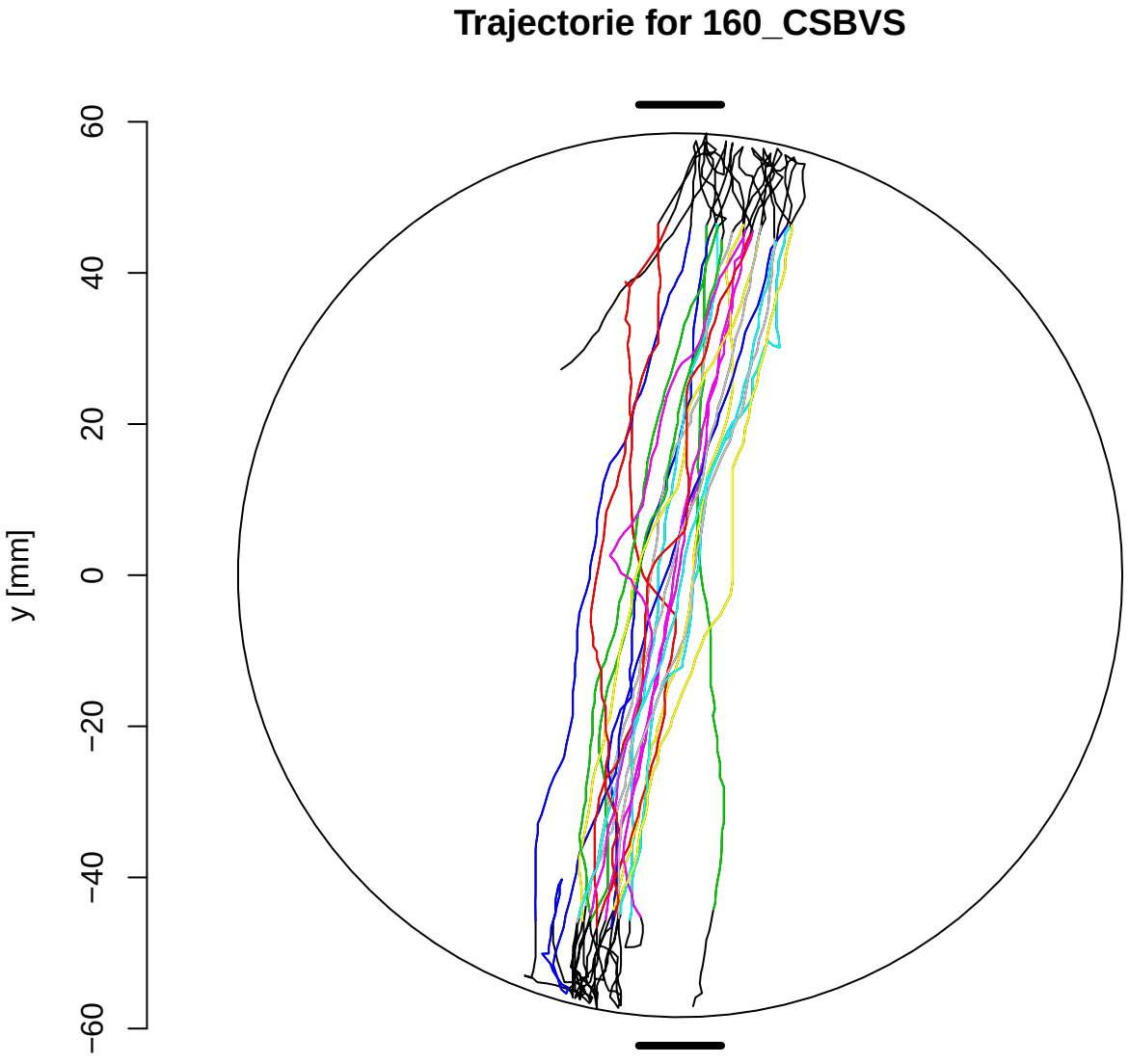
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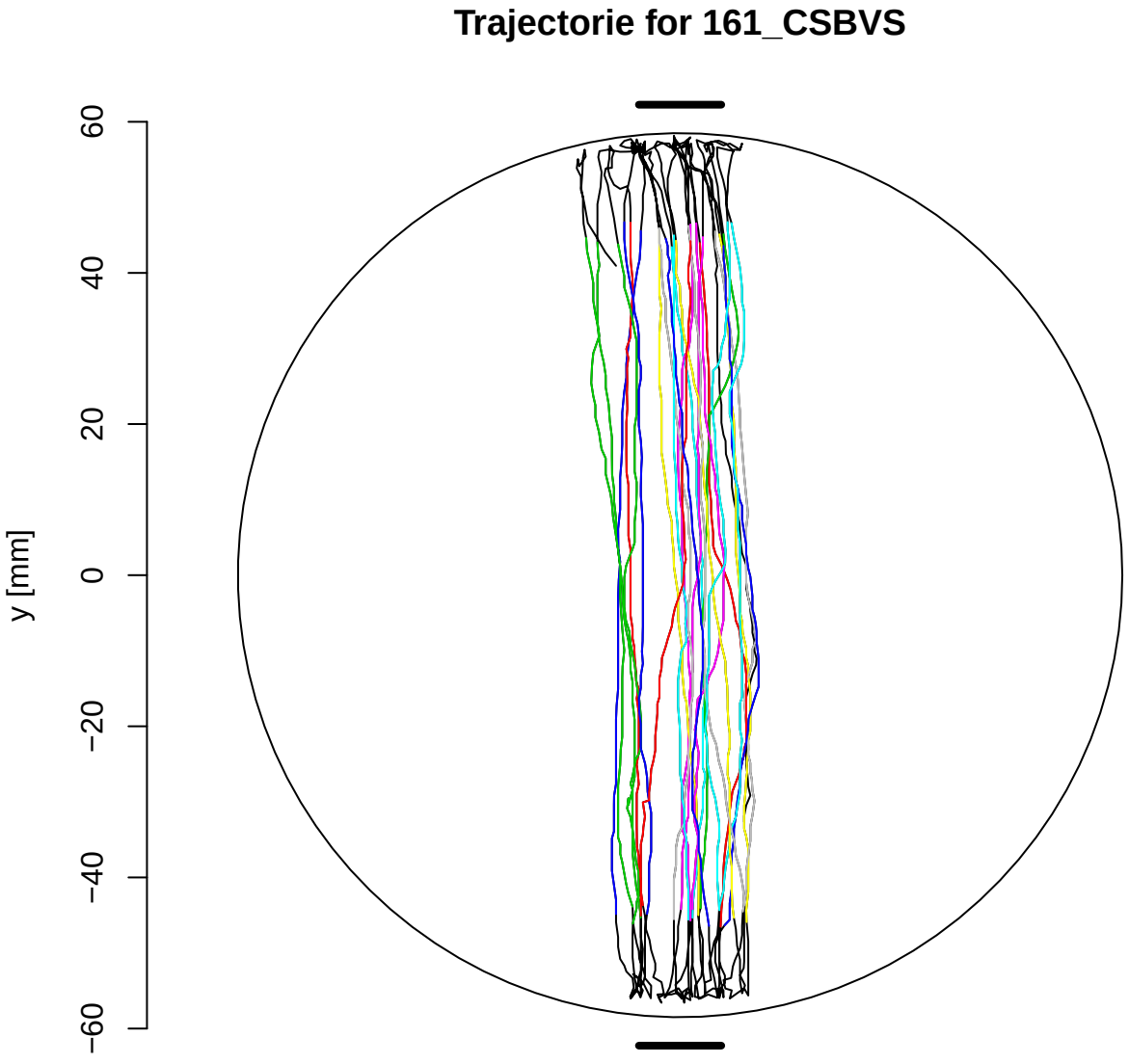
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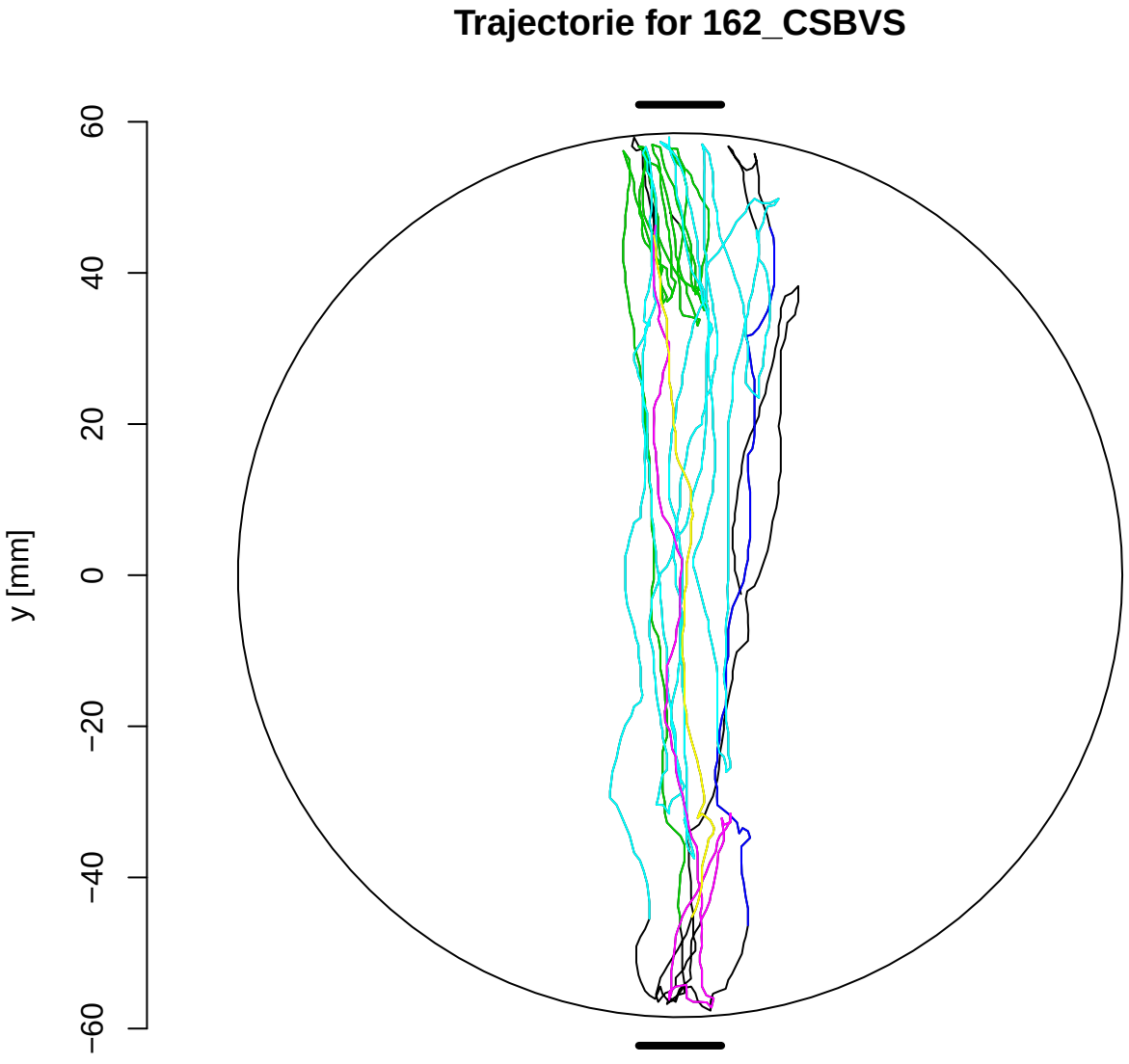
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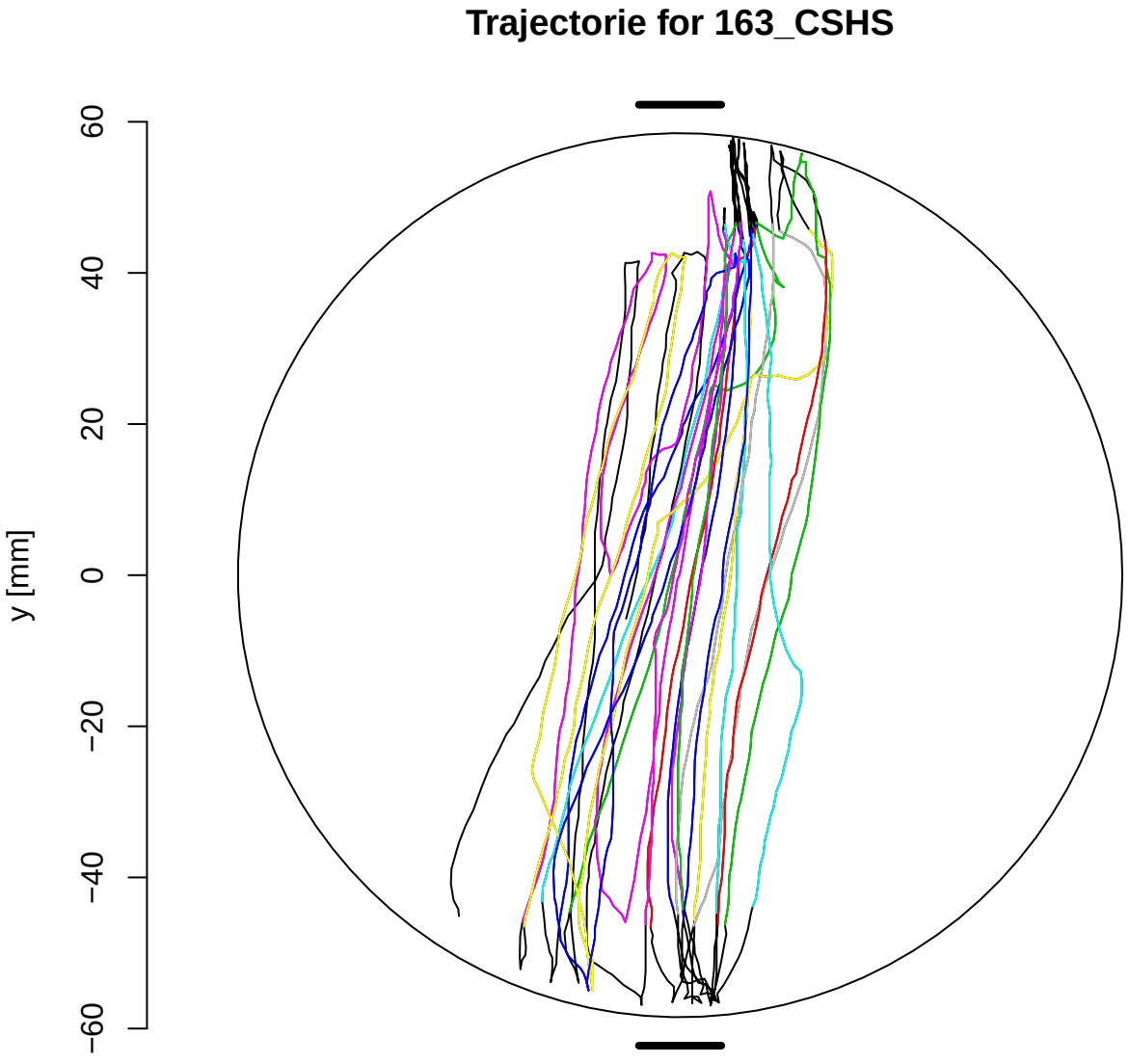
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y [mm]
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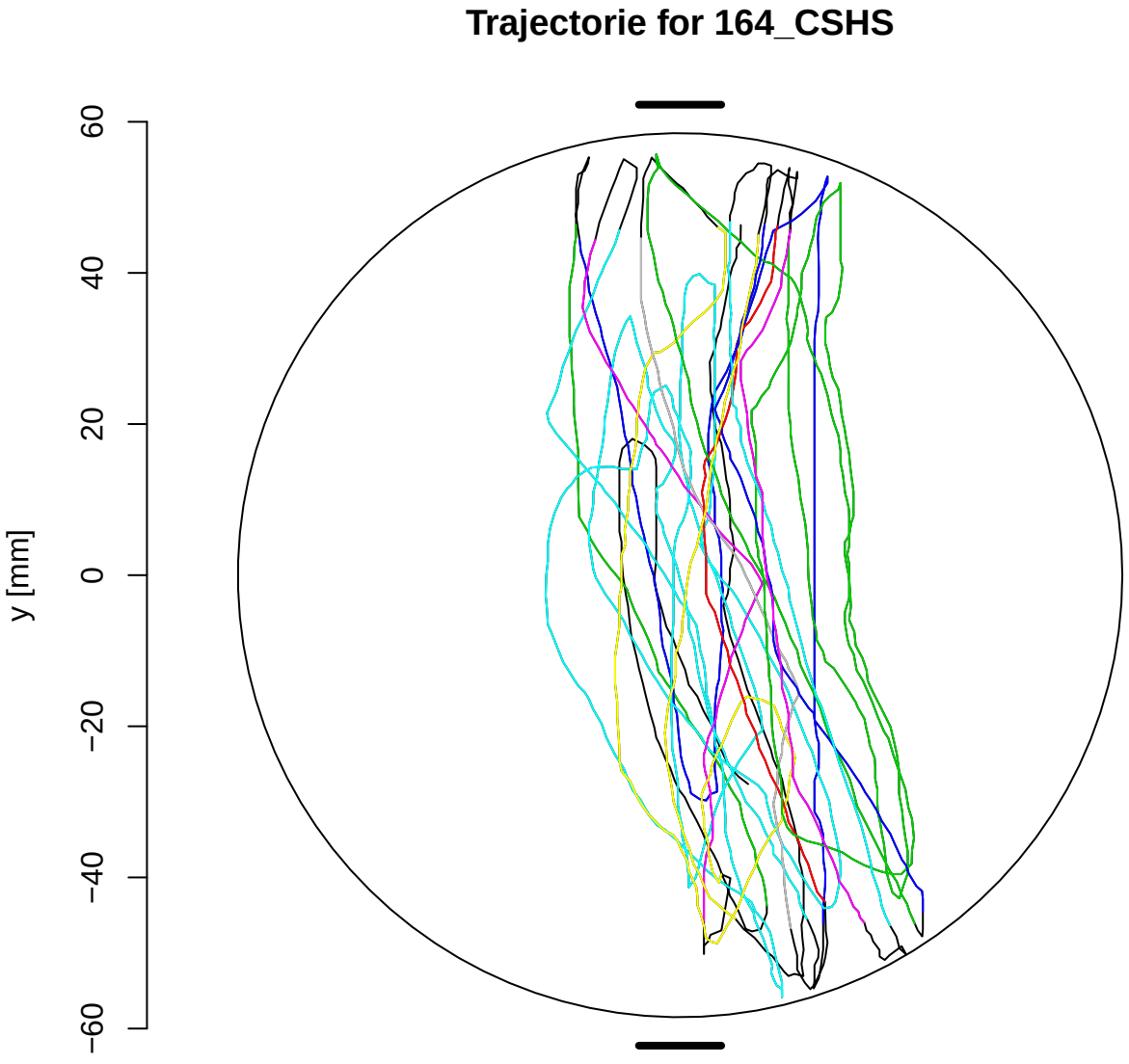
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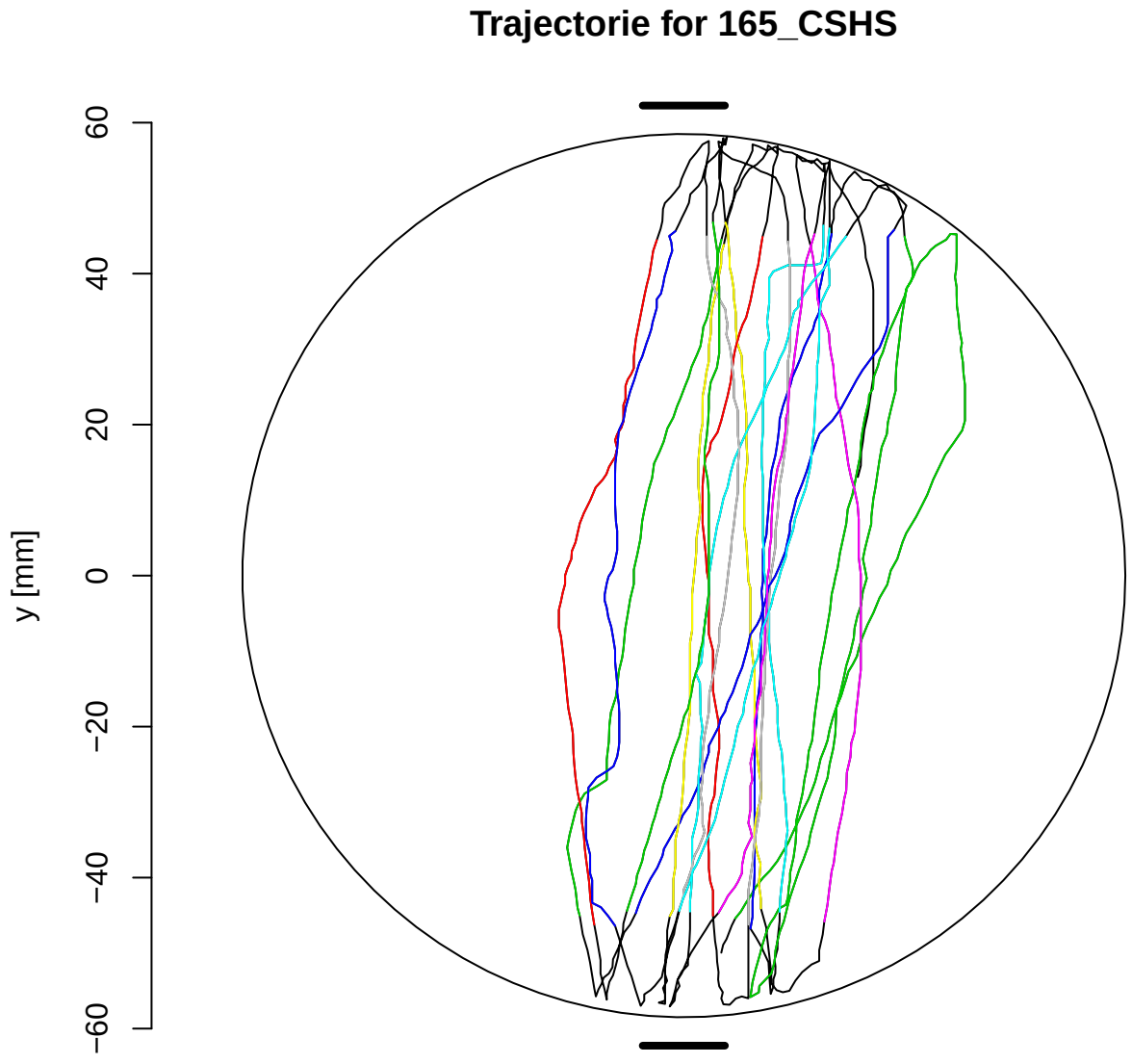
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y [mm]
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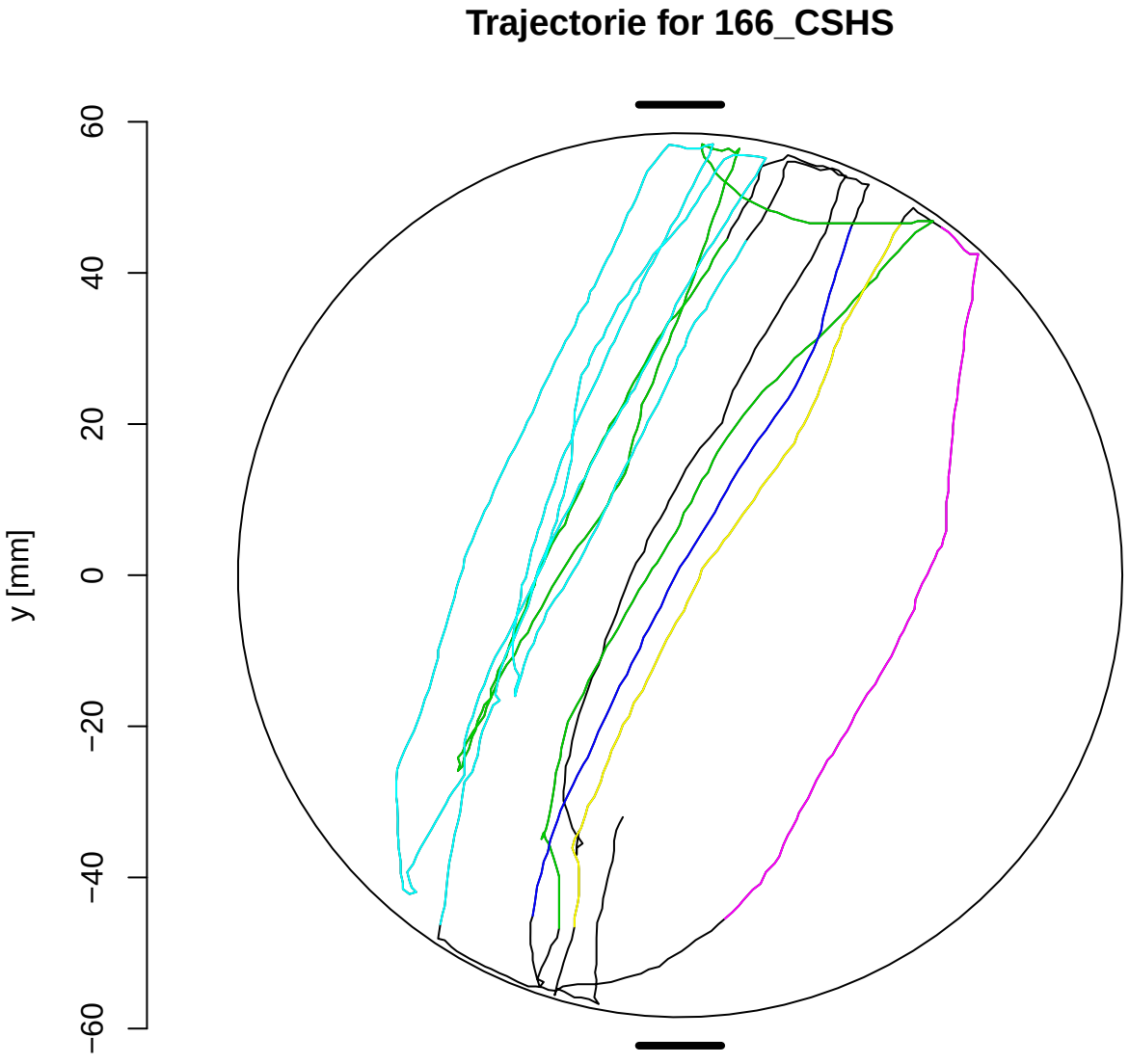
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y [mm]
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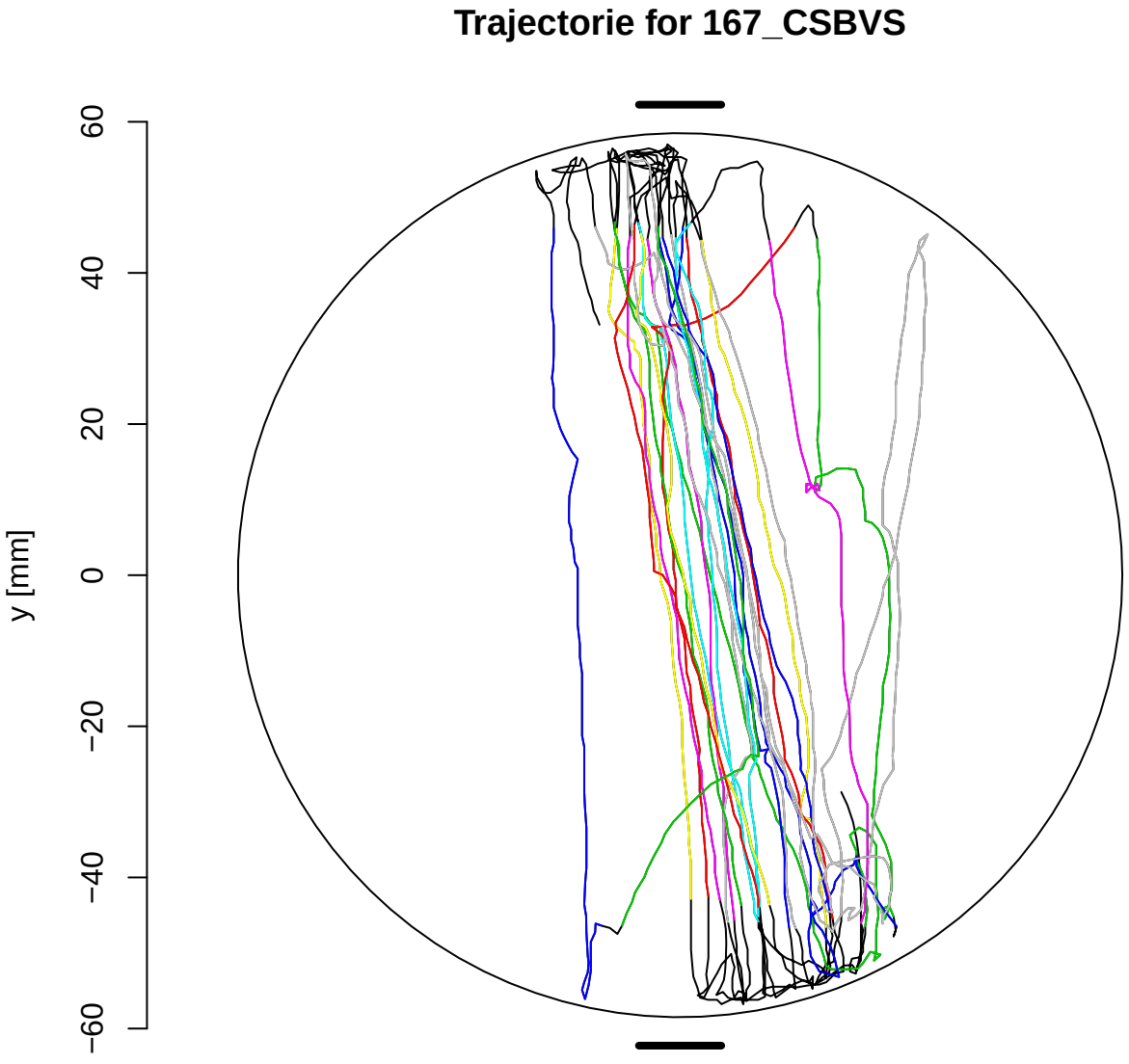
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y [mm]
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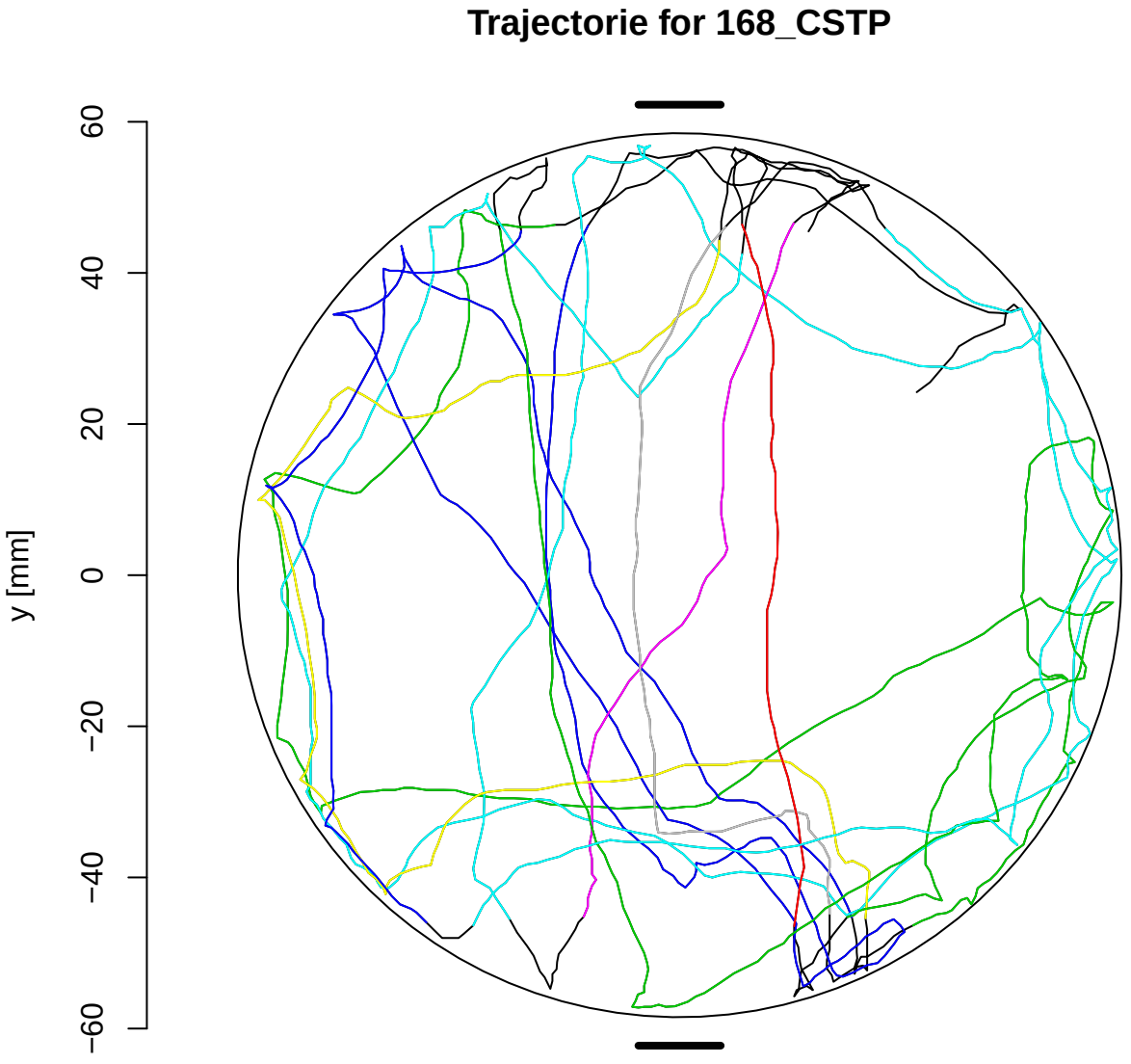
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y [mm]
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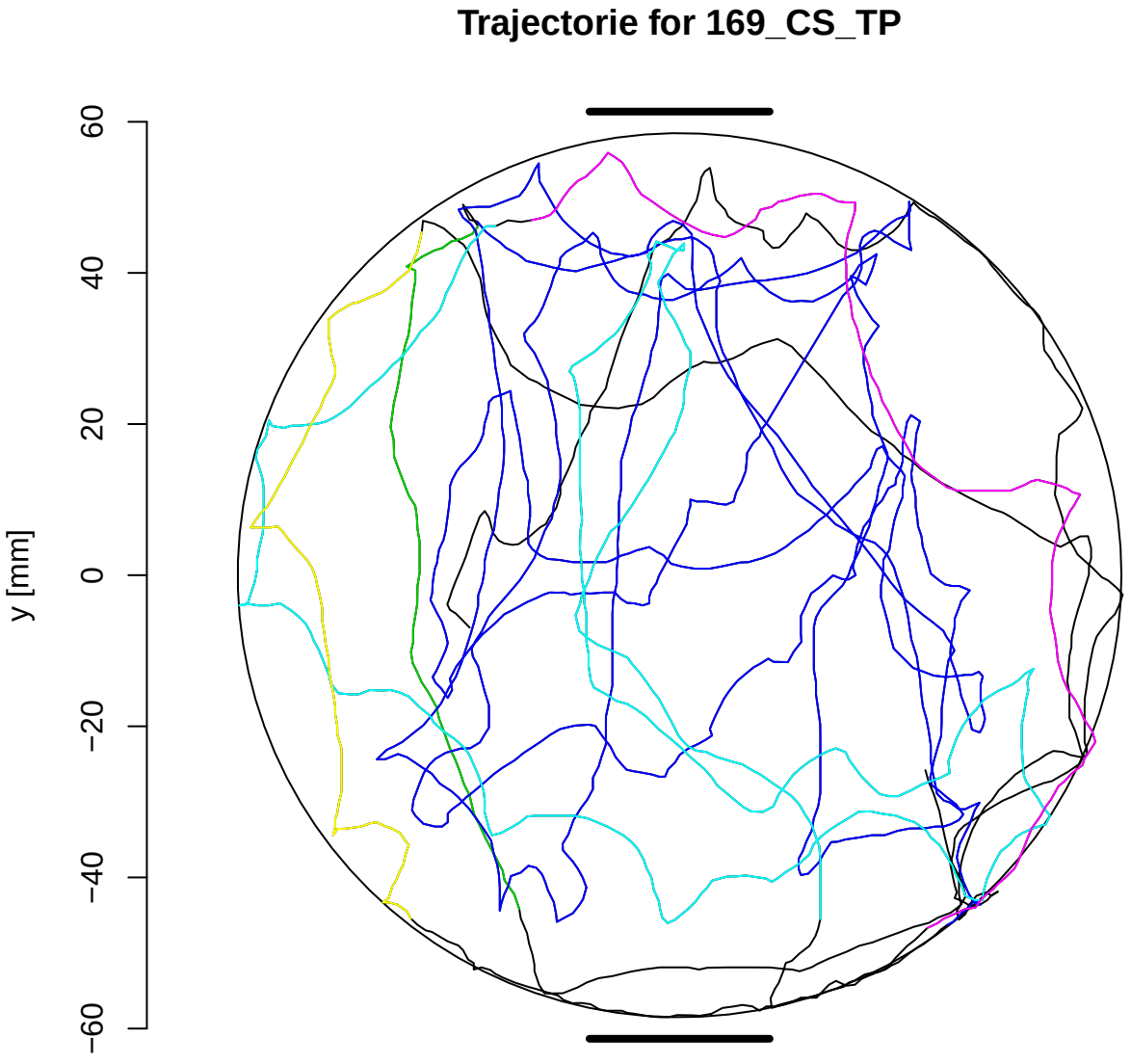
Trajectorie for 169_CS_TP
y [mm]
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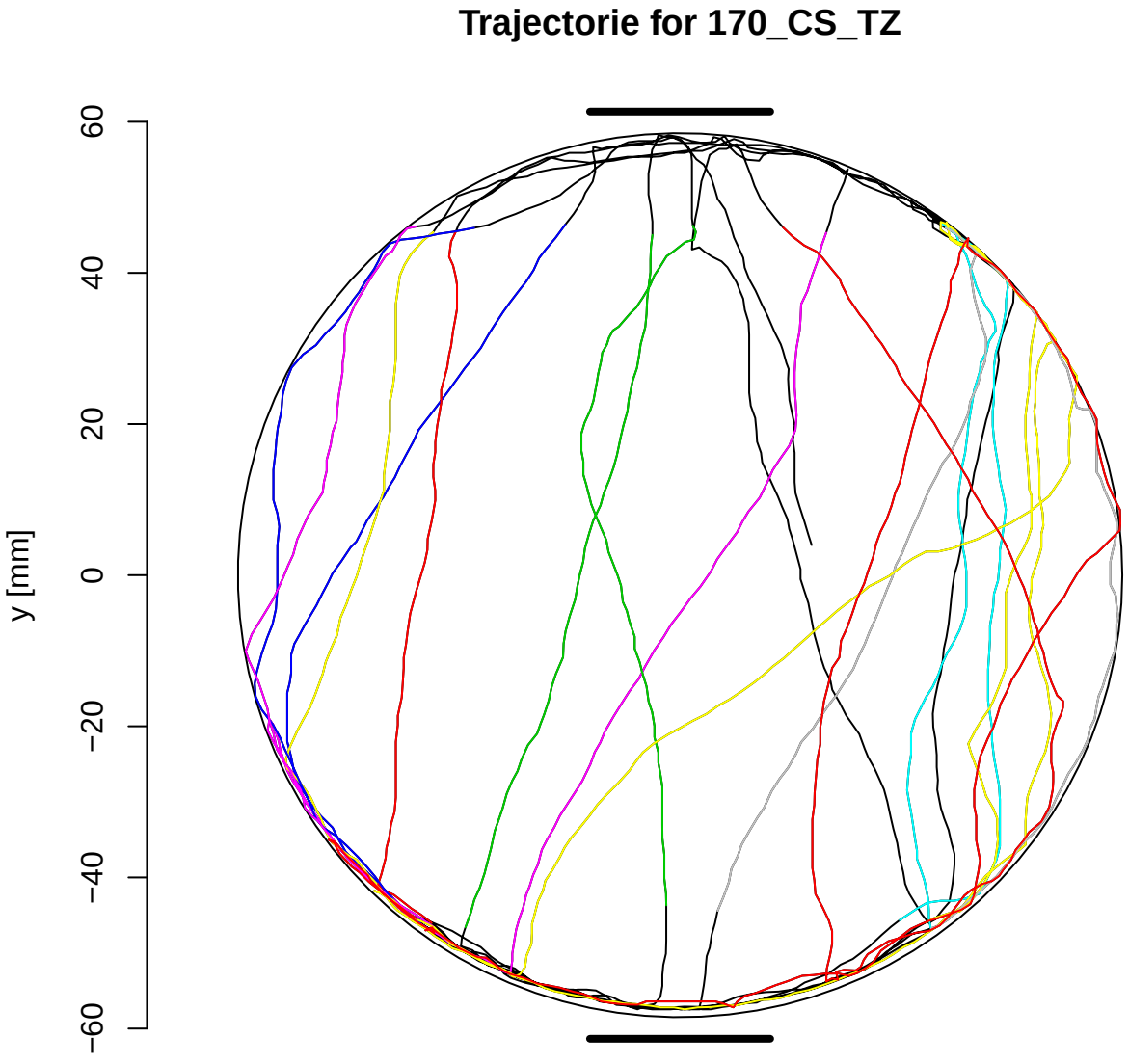
Trajectorie for 170_CS_TZ
y [mm]
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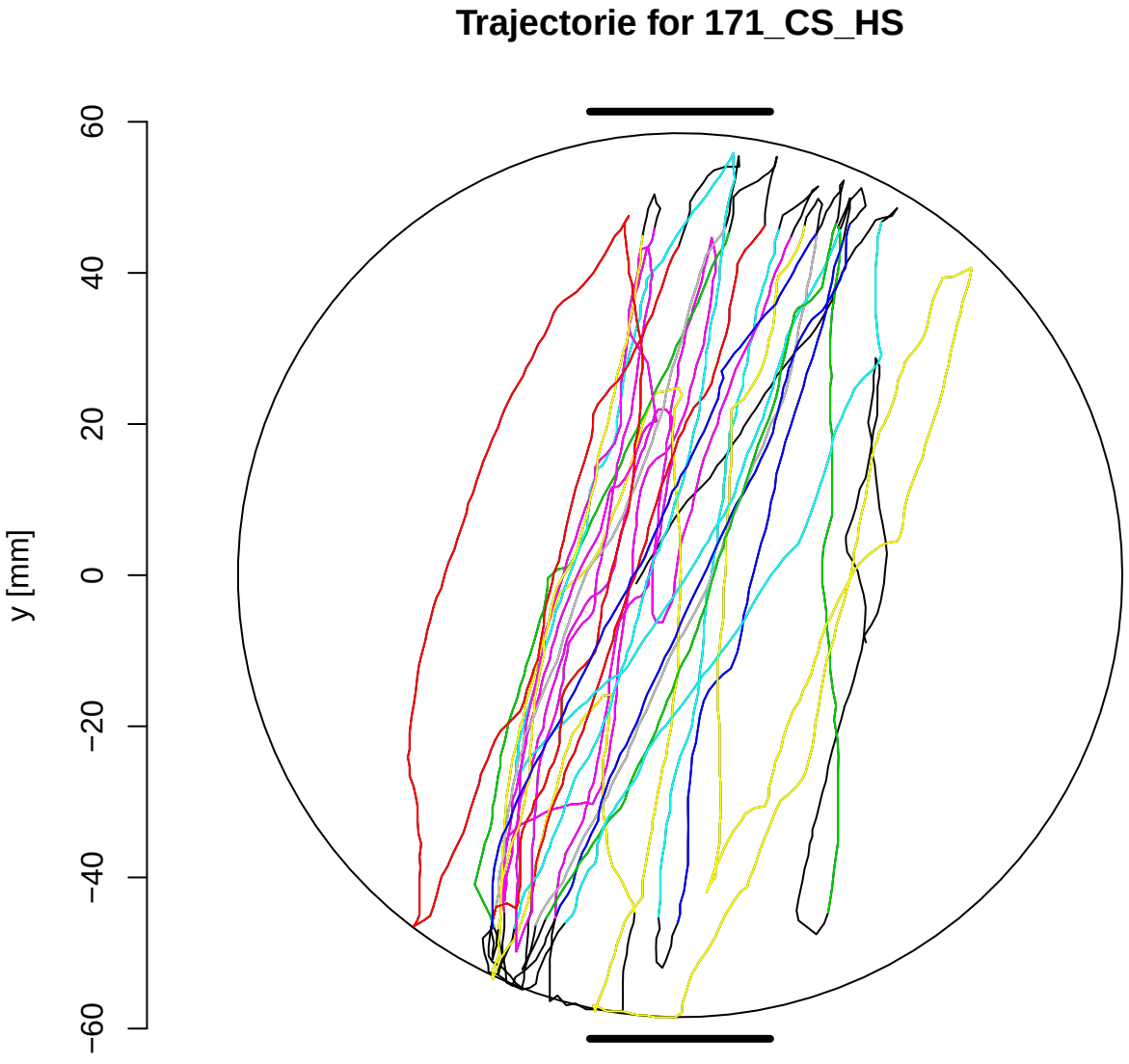
Trajectorie for 171_CS_HS
y [mm]
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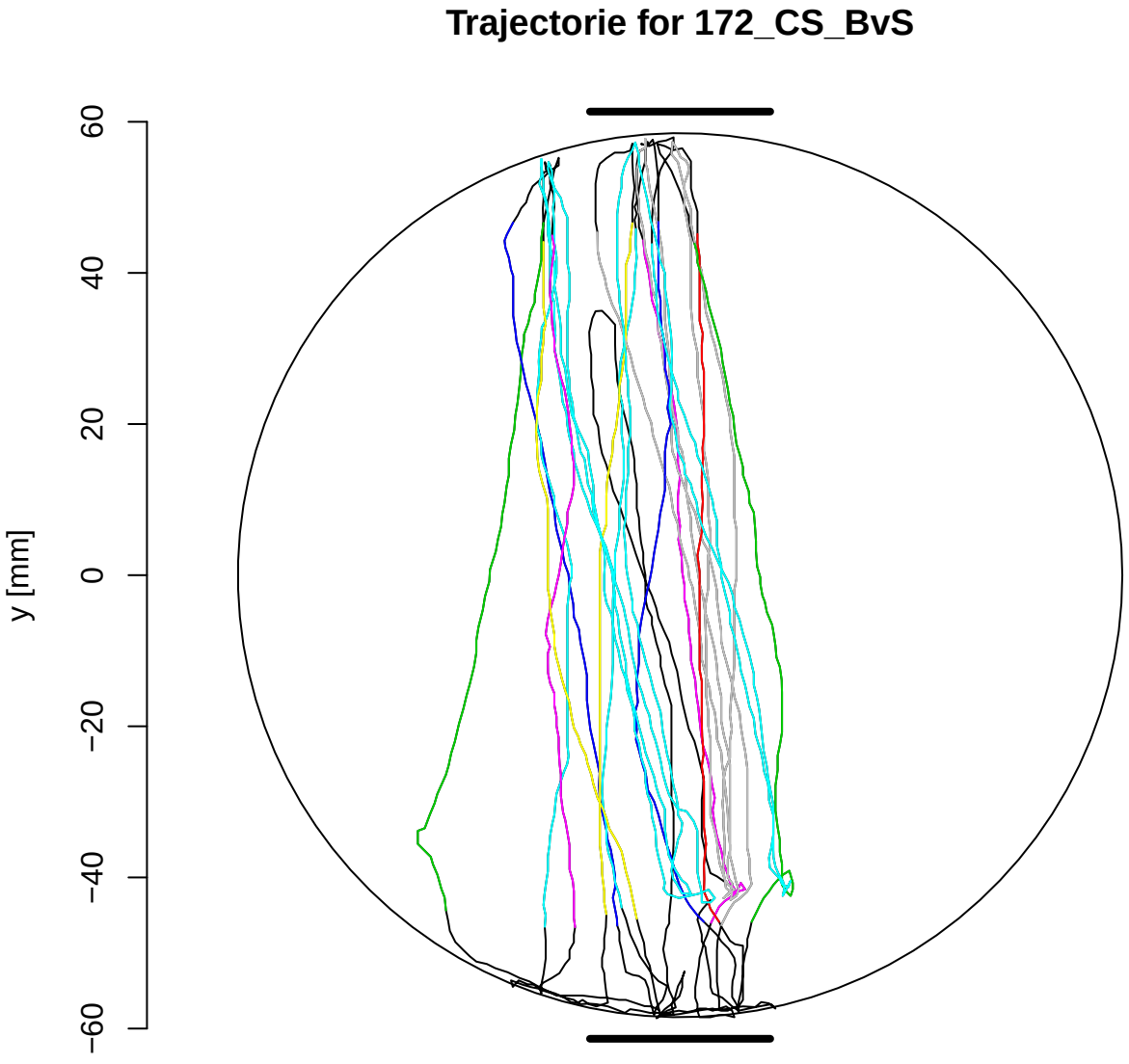
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y [mm]
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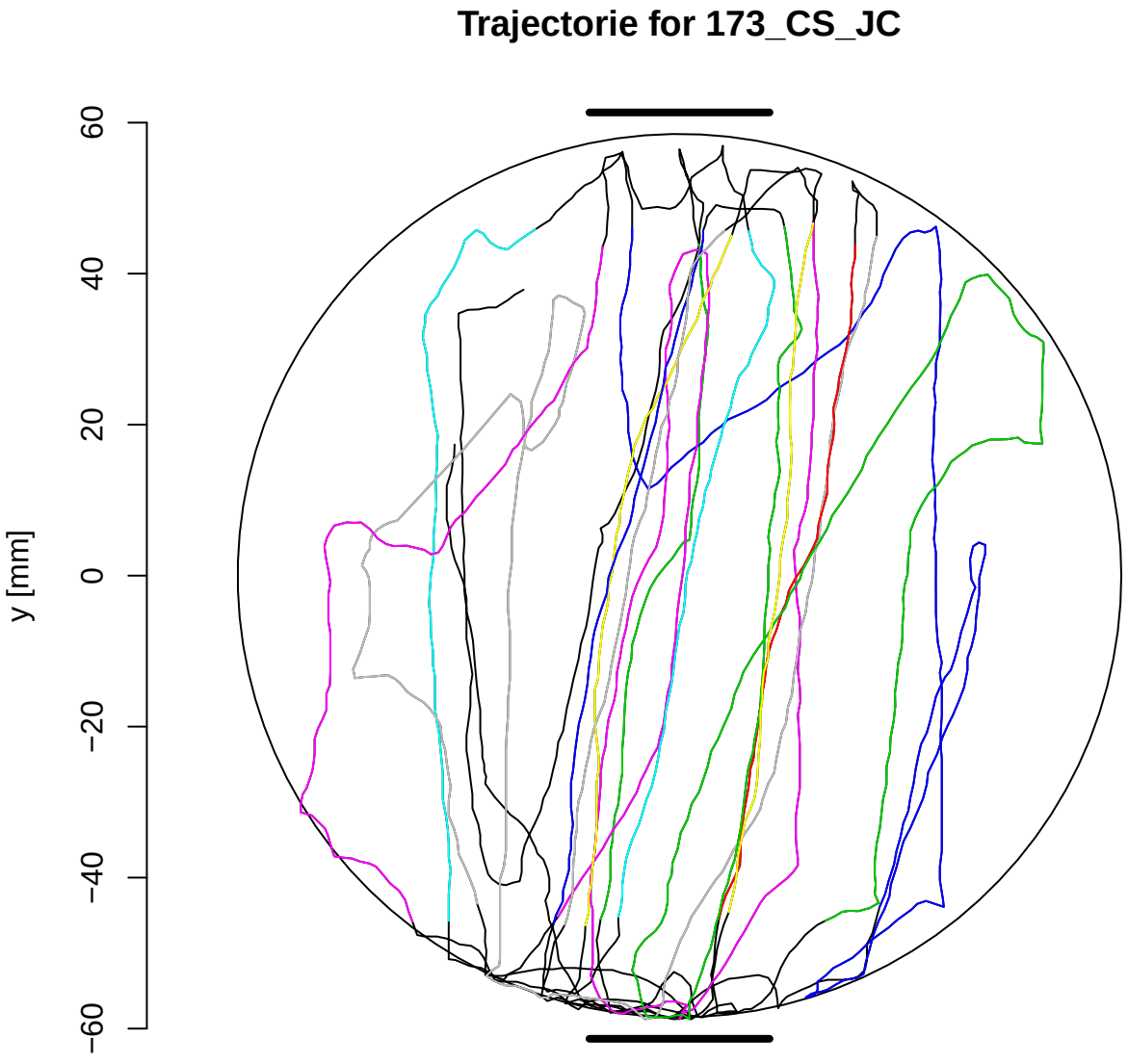
Trajectorie for 173_CS_JC
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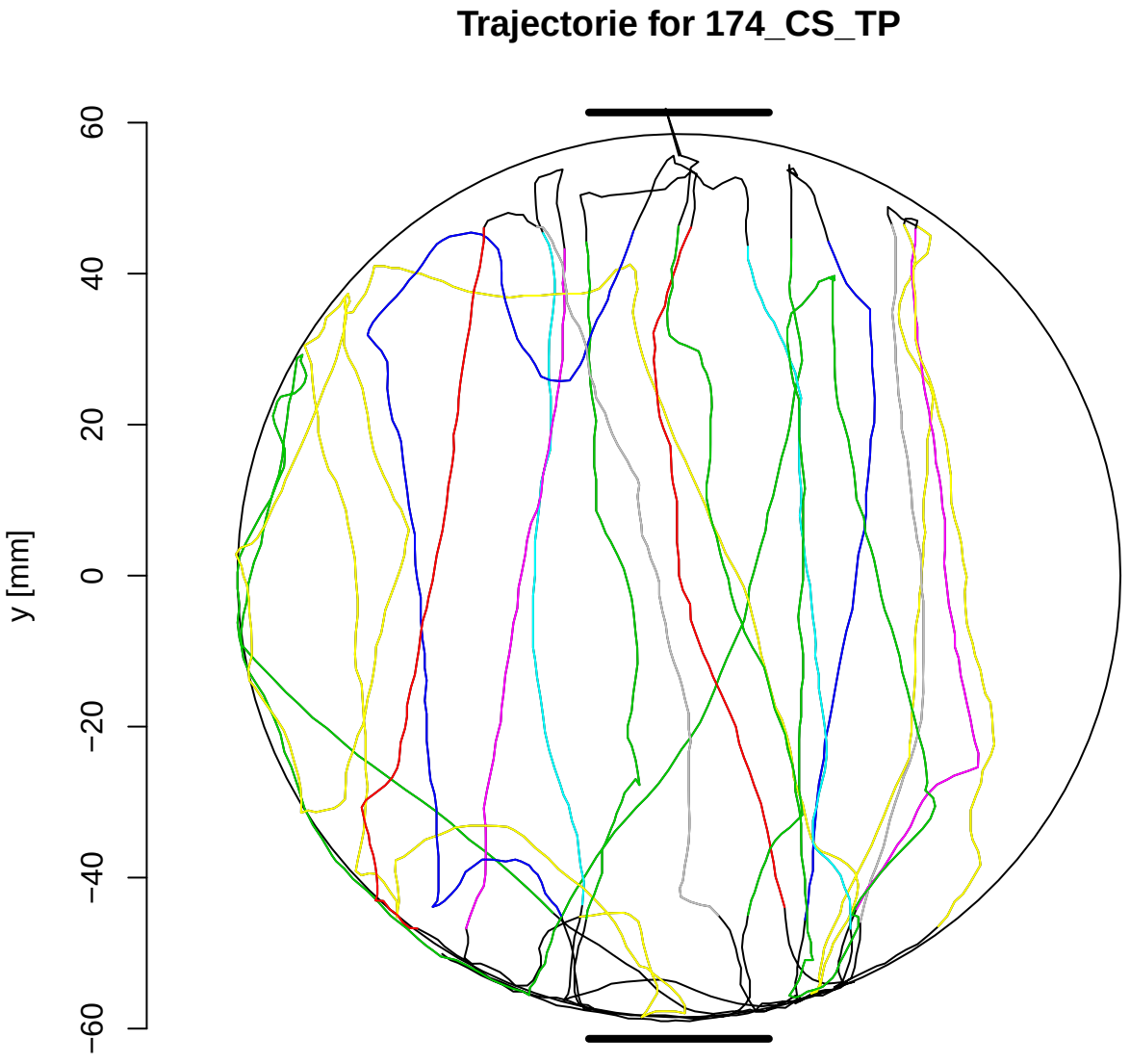
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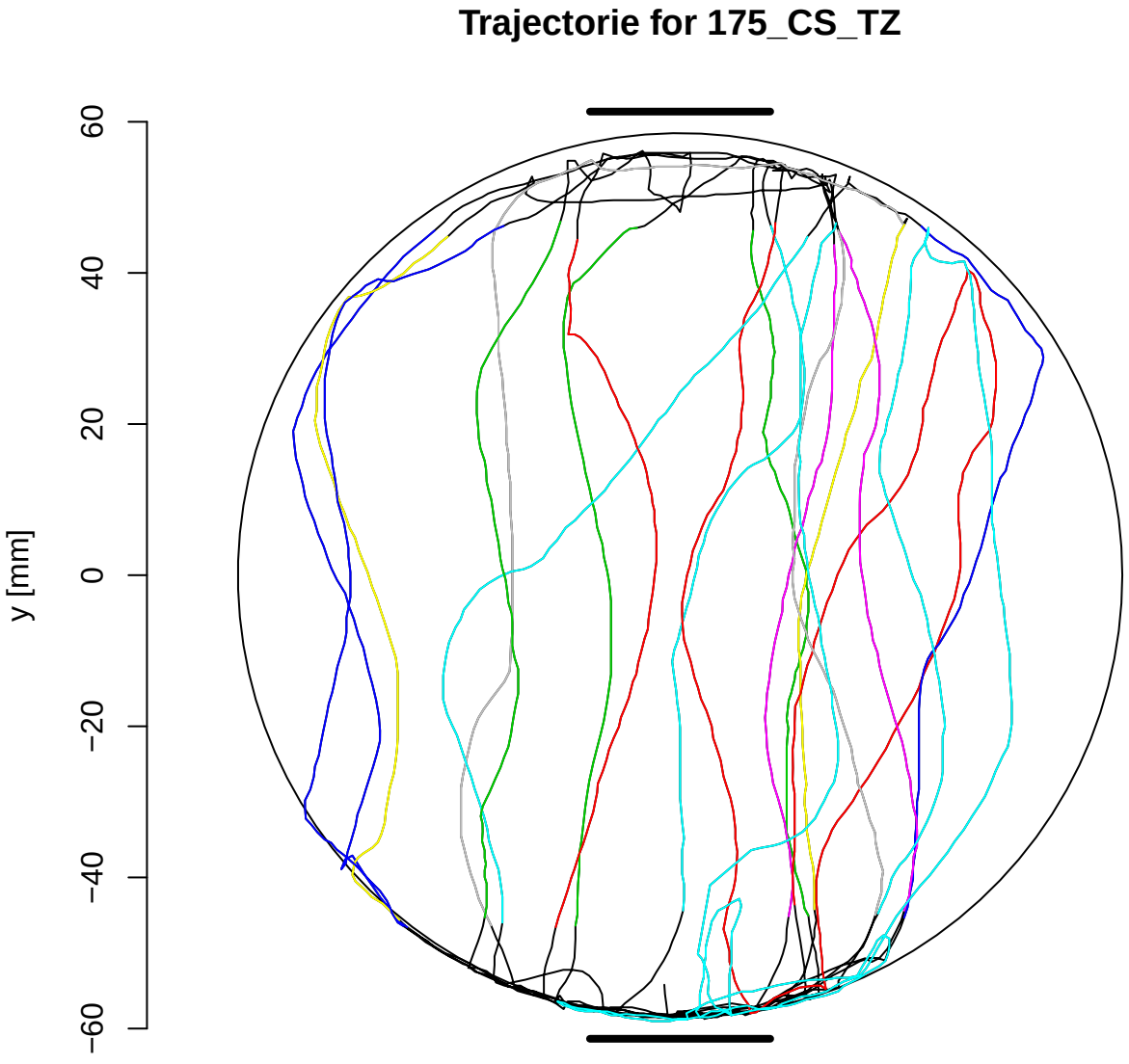
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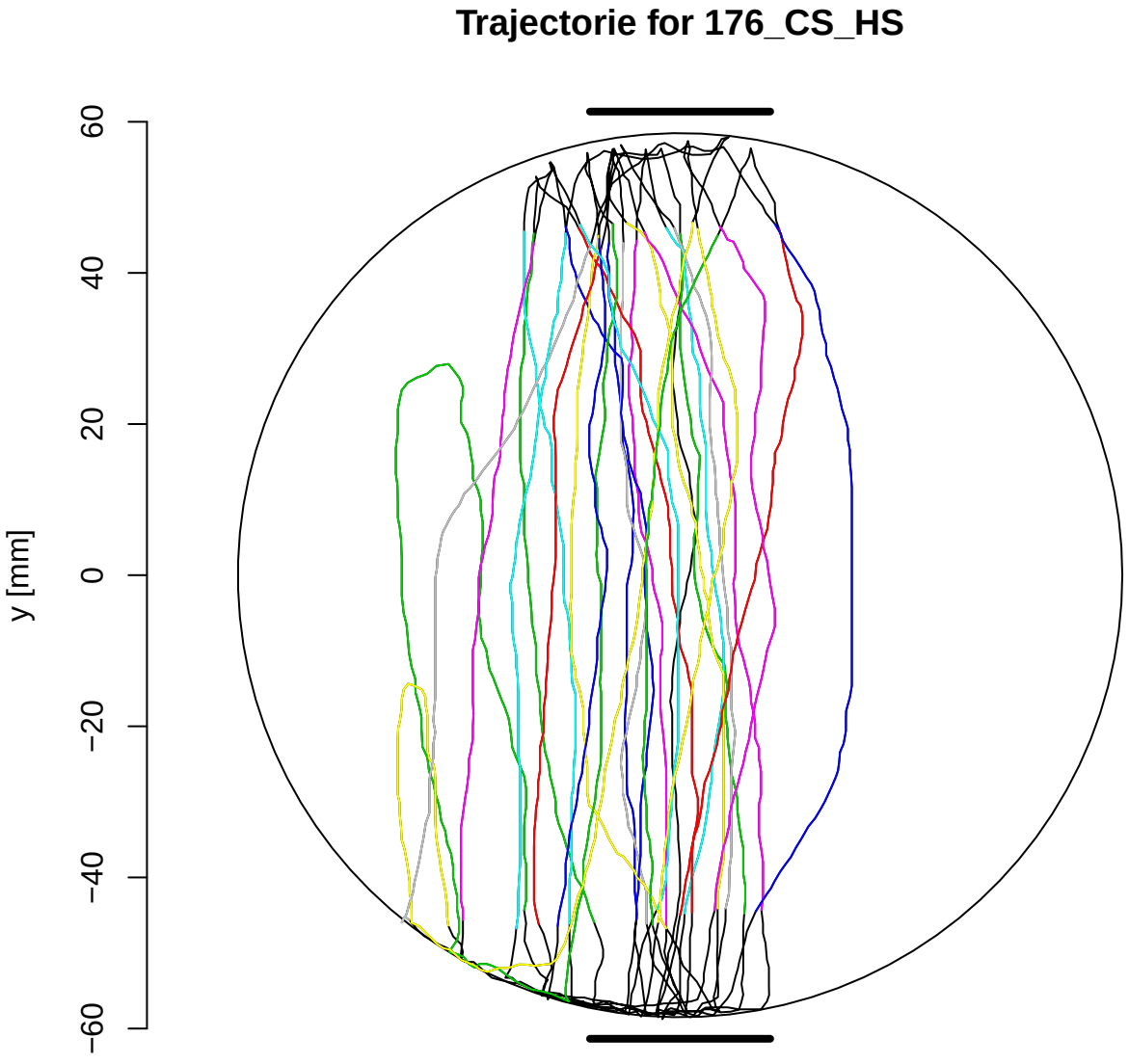
Trajectorie for 176_CS_HS
y [mm]
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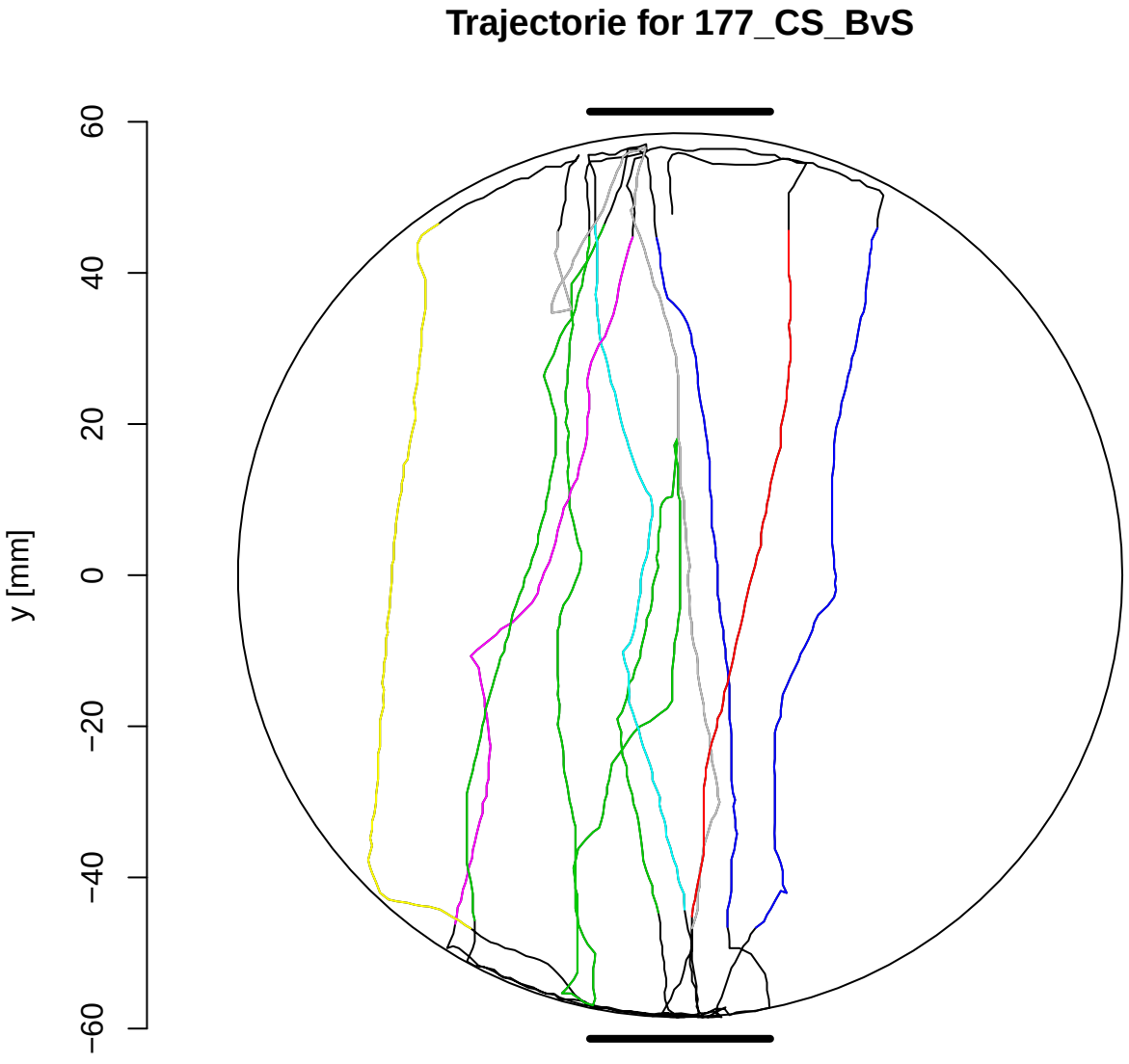
Trajectorie for 177_CS_BvS
y [mm]
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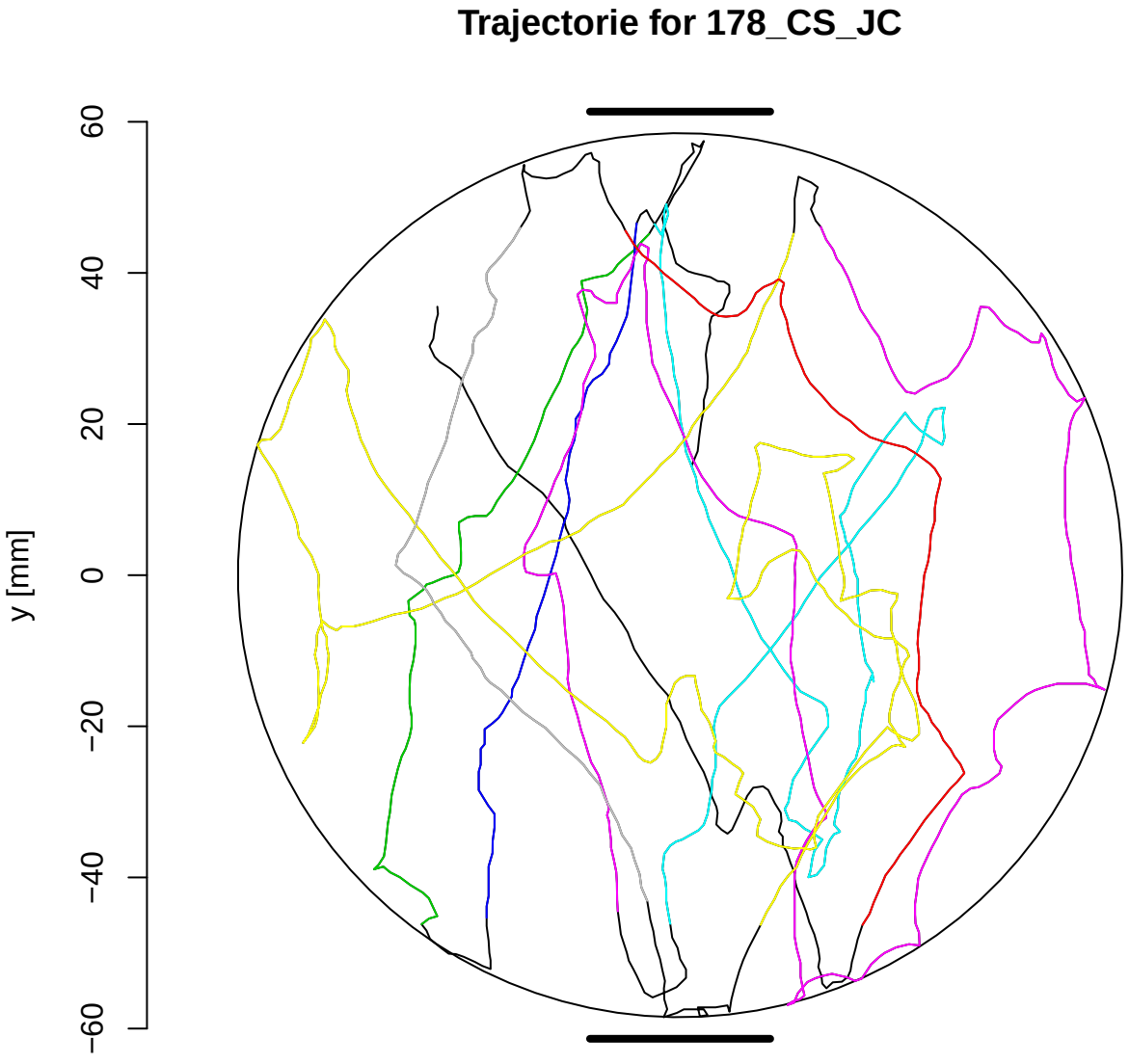
Trajectorie for 178_CS_JC
y [mm]
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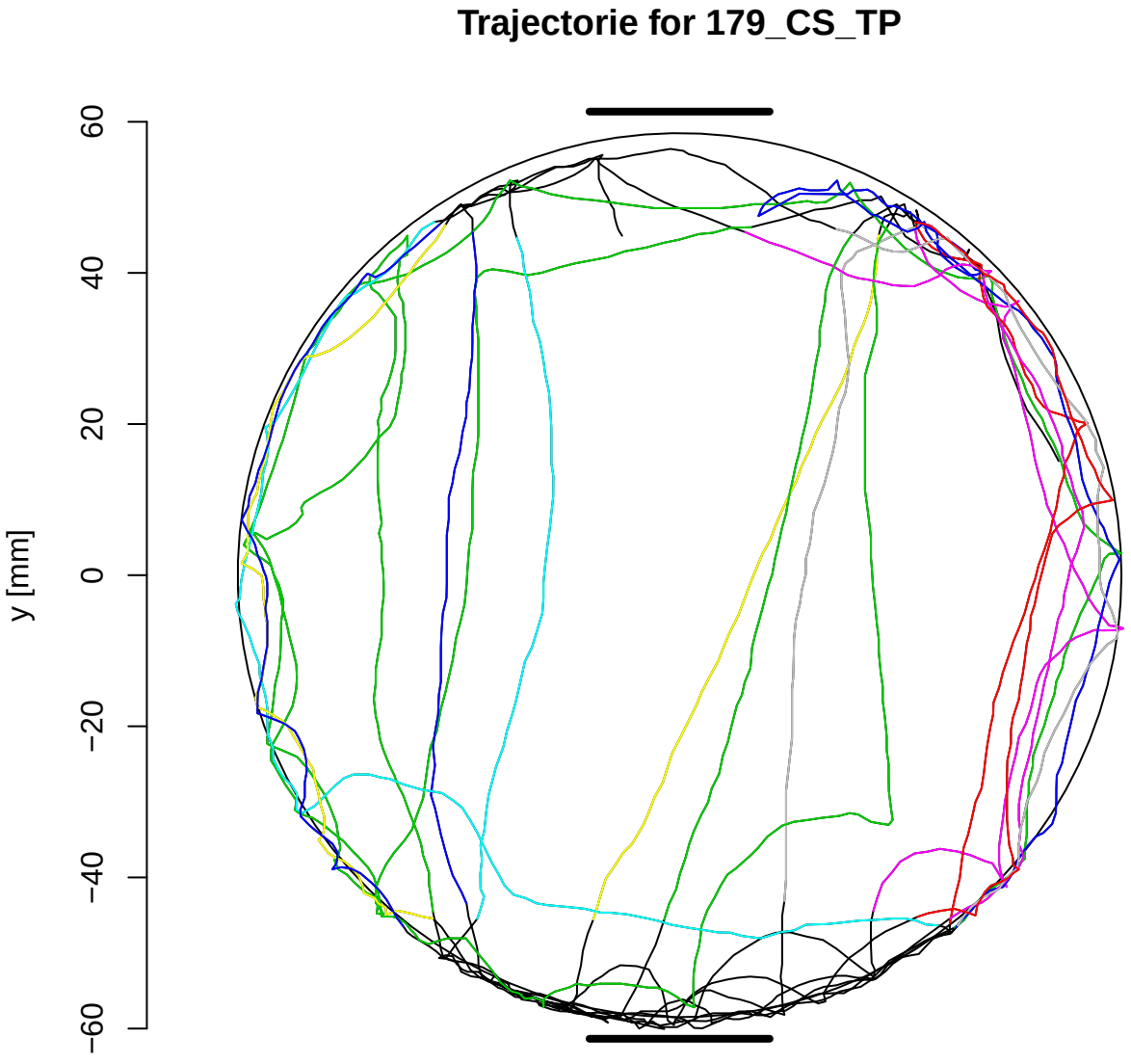
Trajectorie for 179_CS_TP
y [mm]
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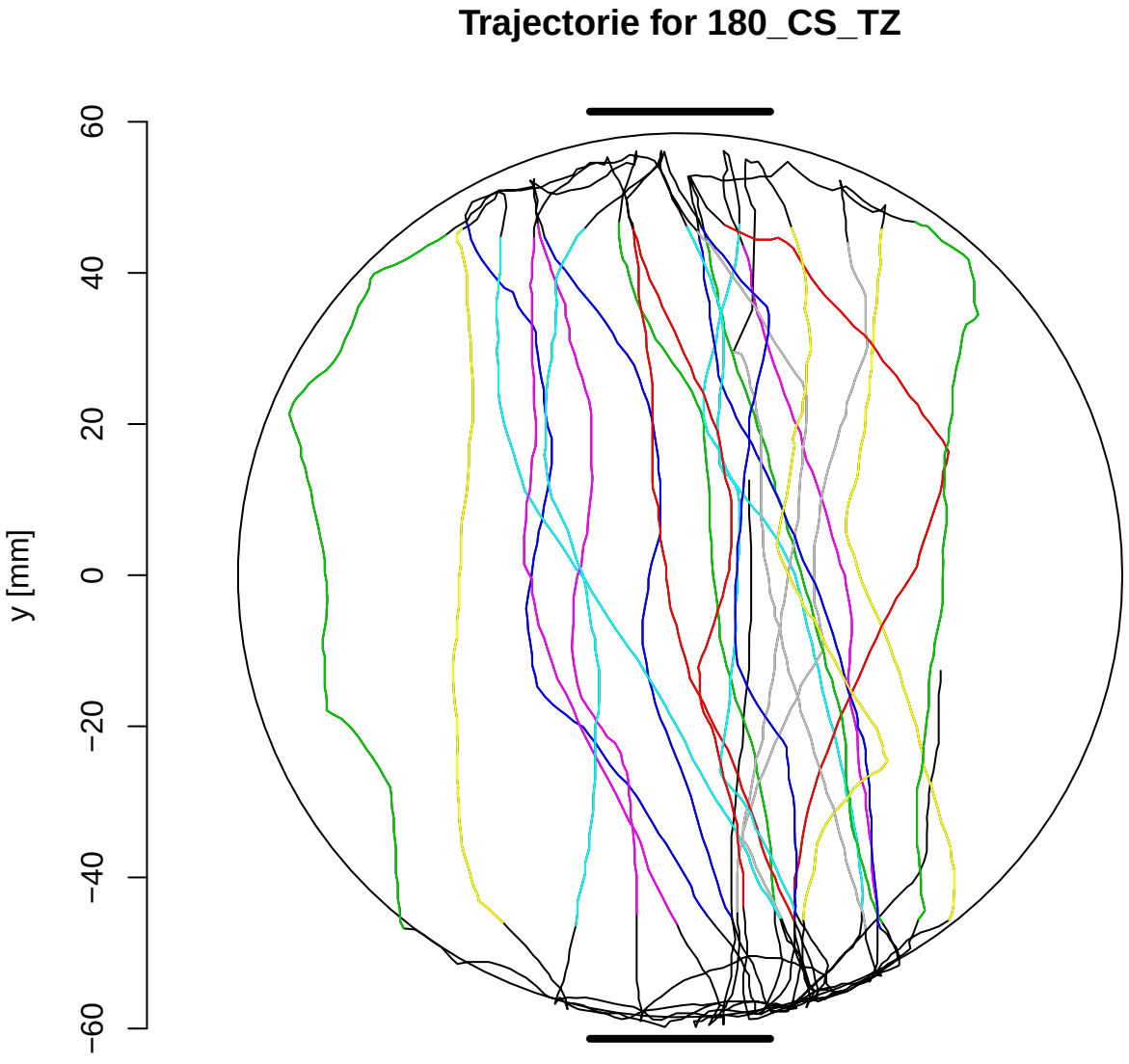
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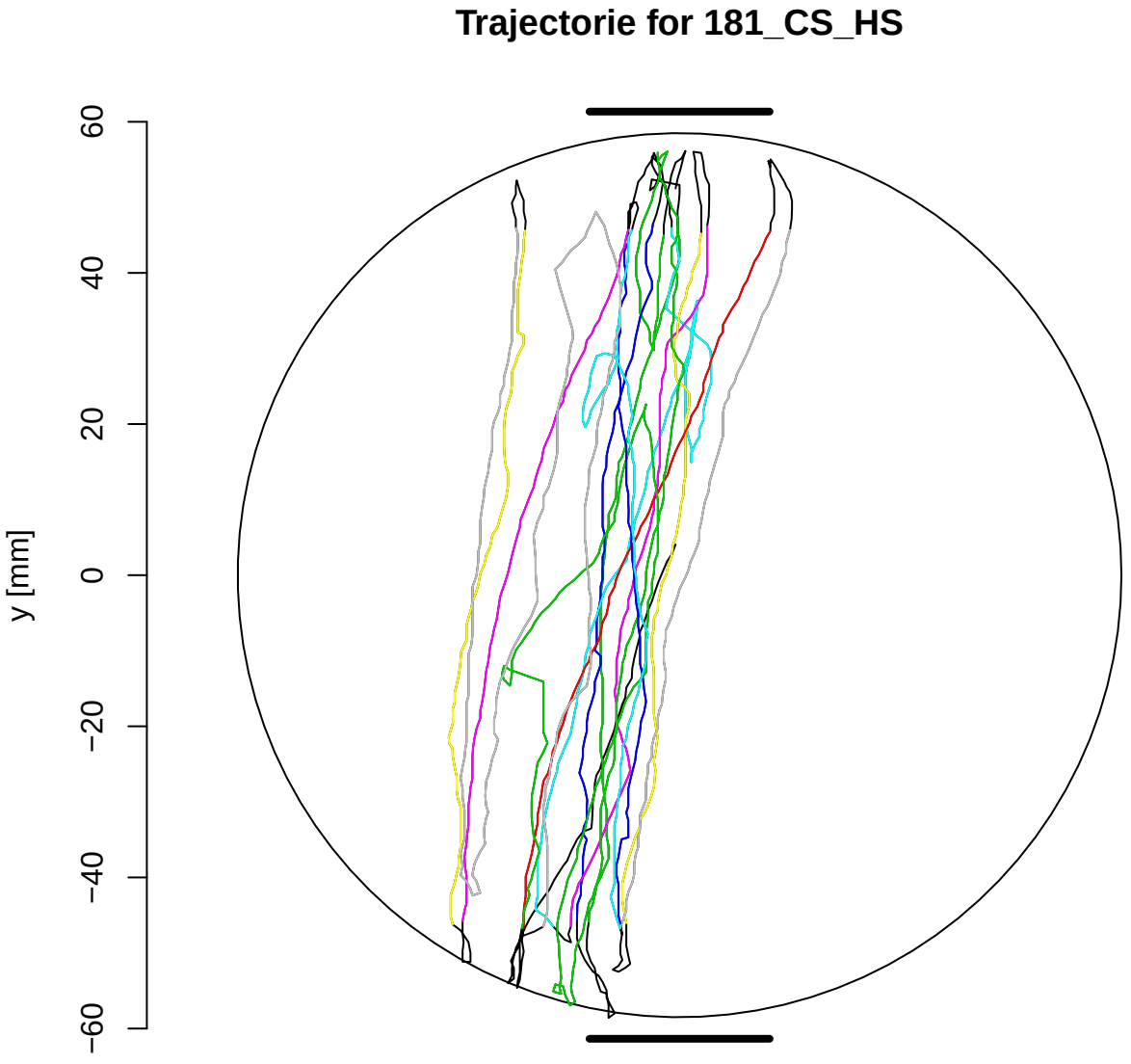
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y [mm]
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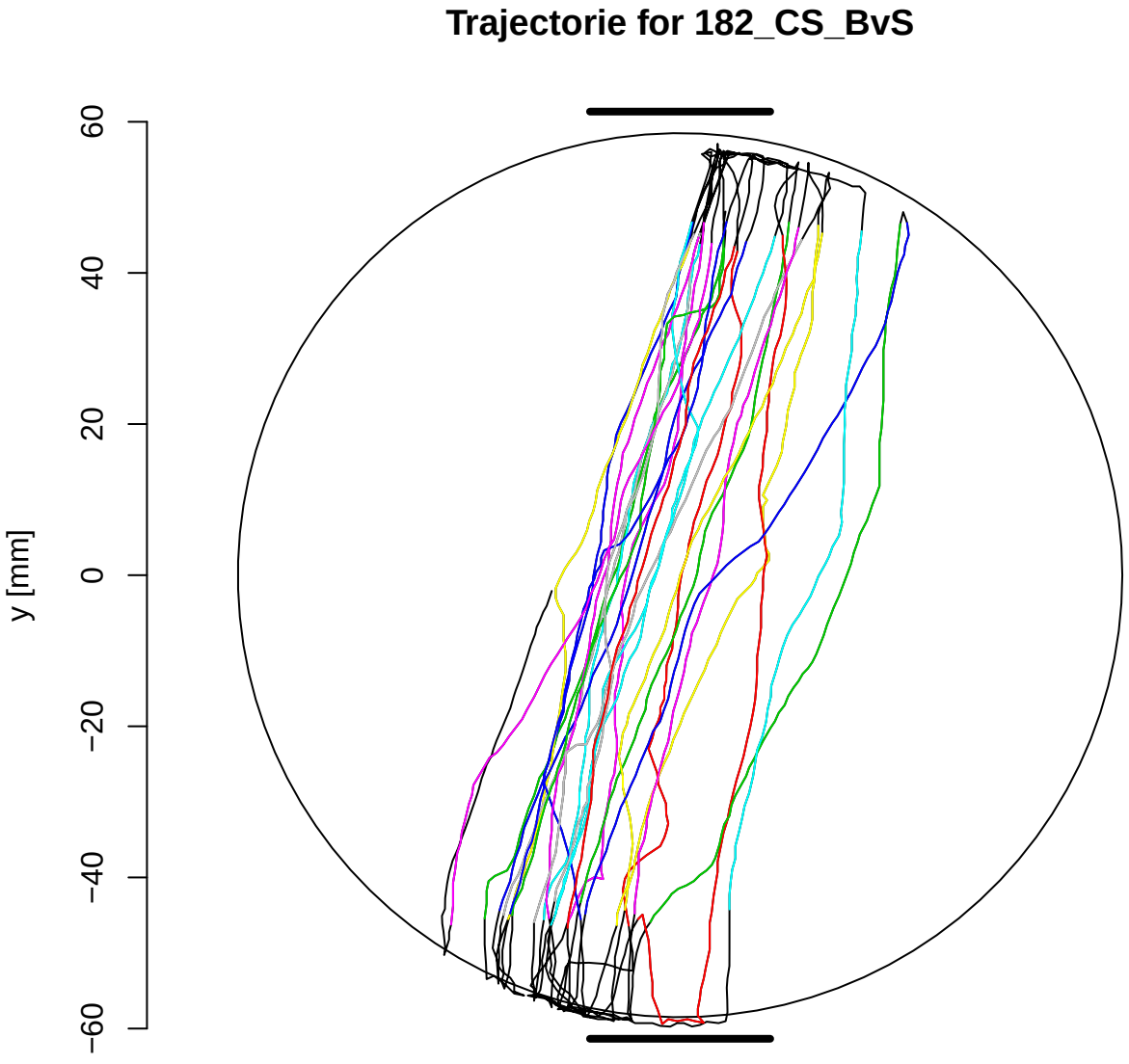
Trajectorie for 182_CS_BvS
y [mm]
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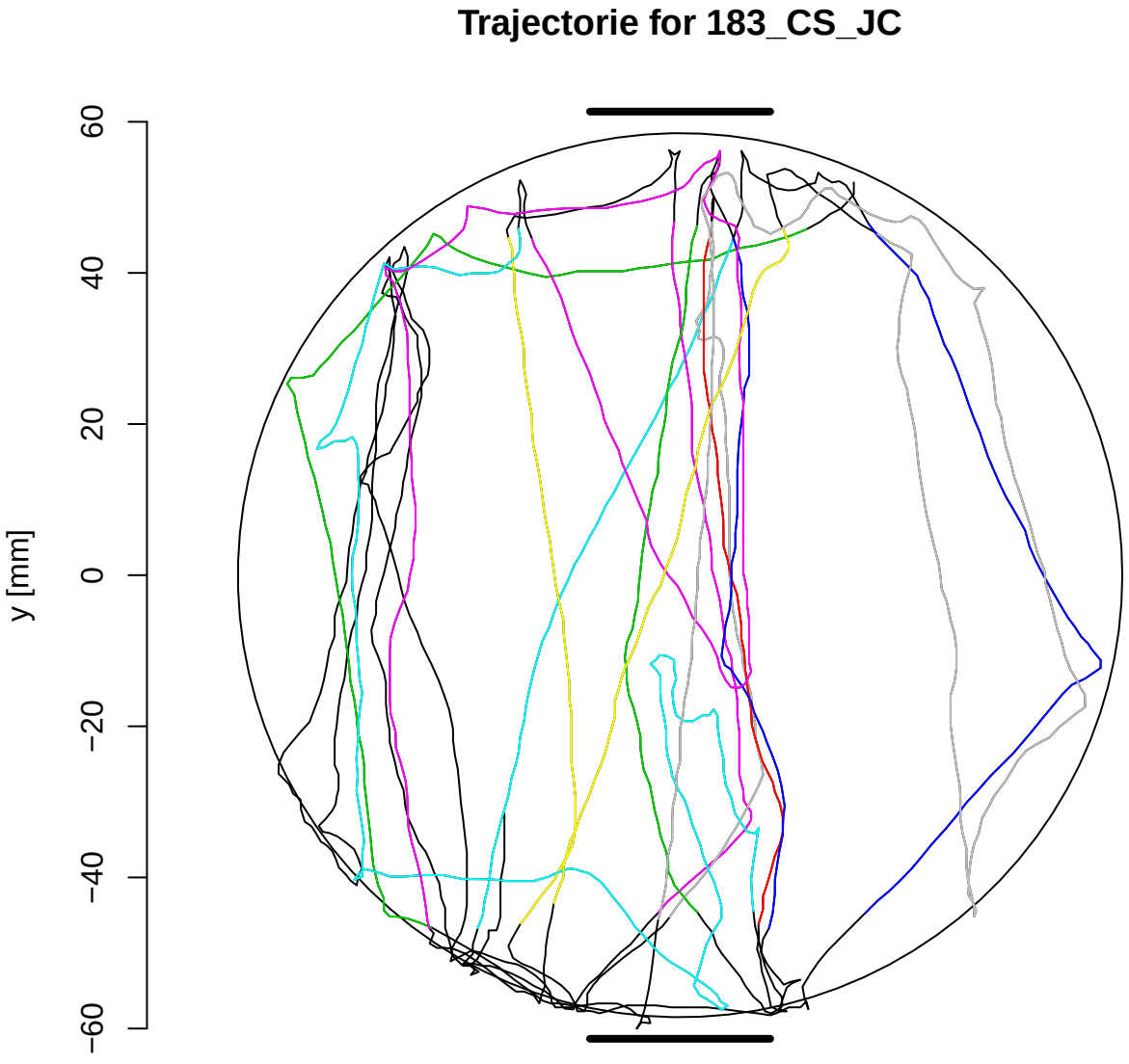
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y [mm]
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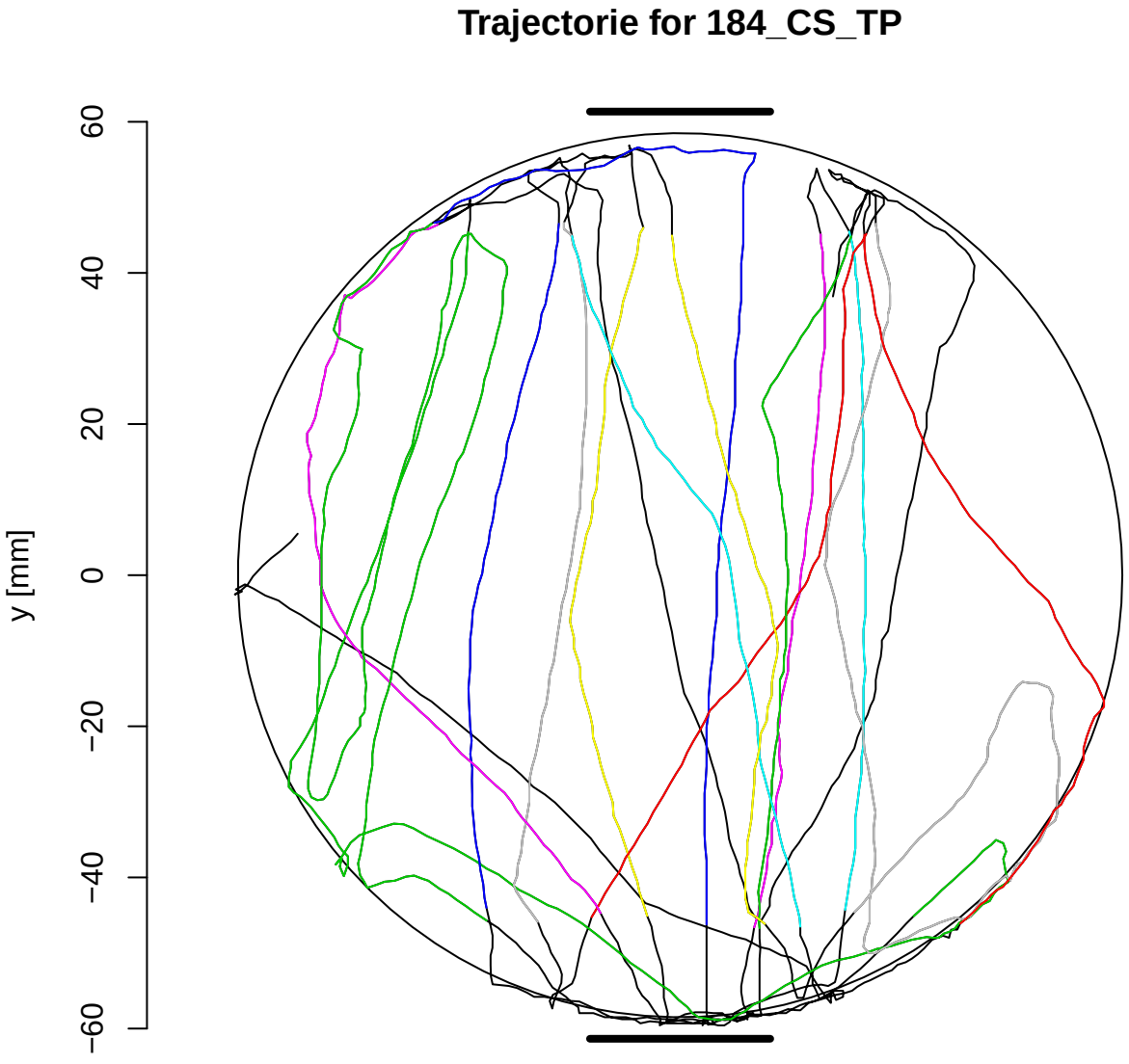
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y [mm]
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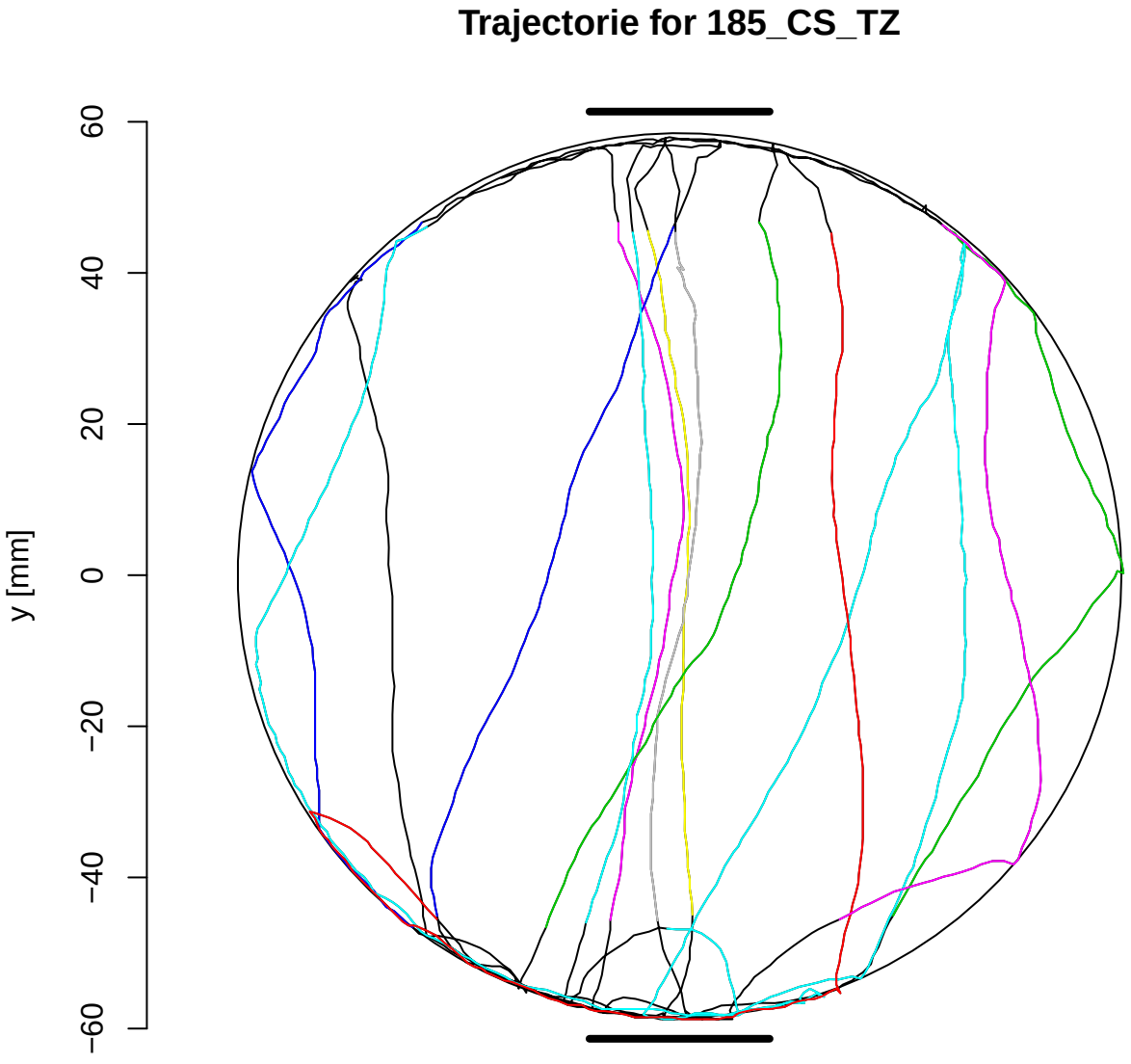
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y [mm]
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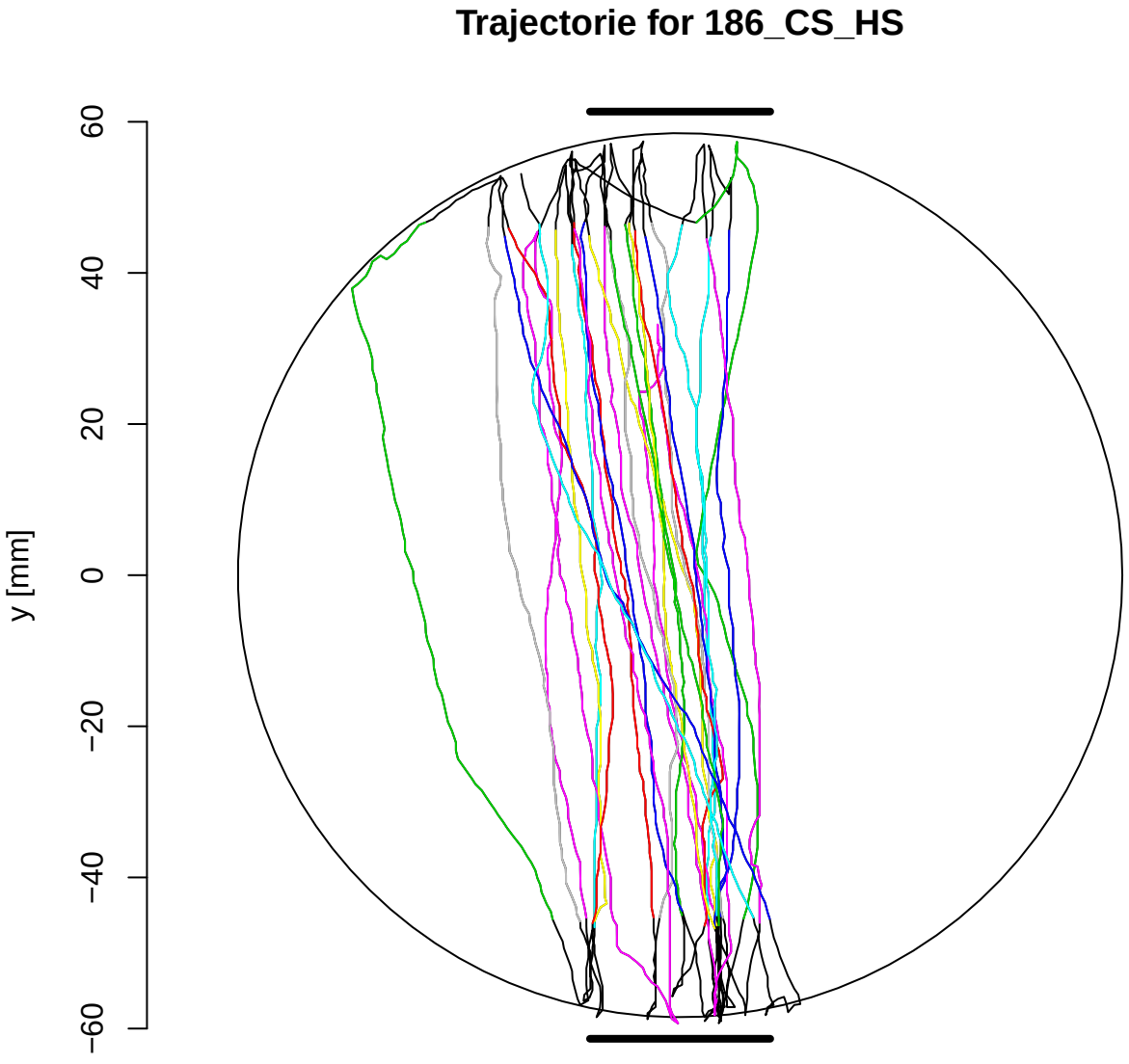
Trajectorie for 186_CS_HS
y [mm]
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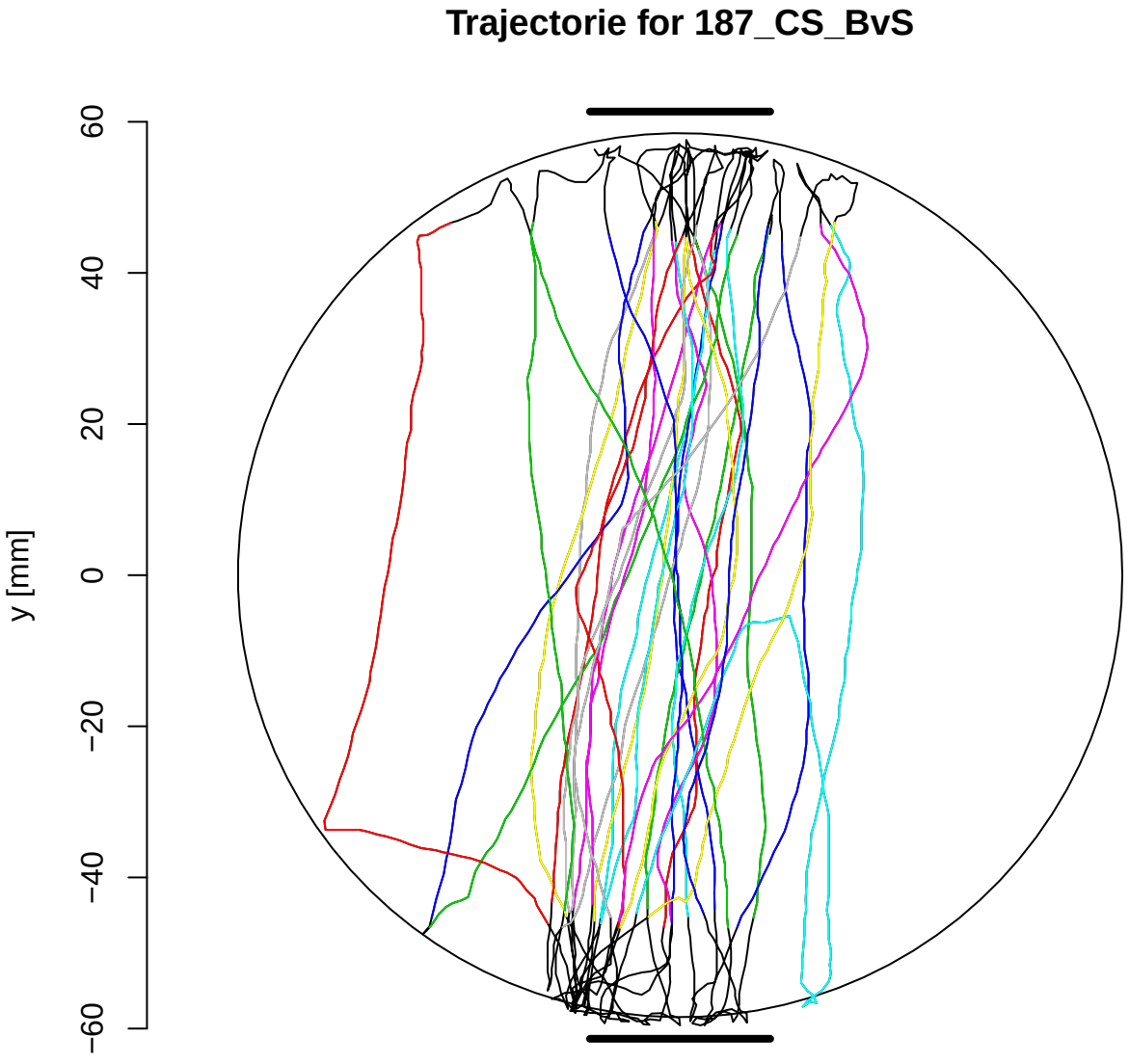
Trajectorie for 187_CS_BvS
y [mm]
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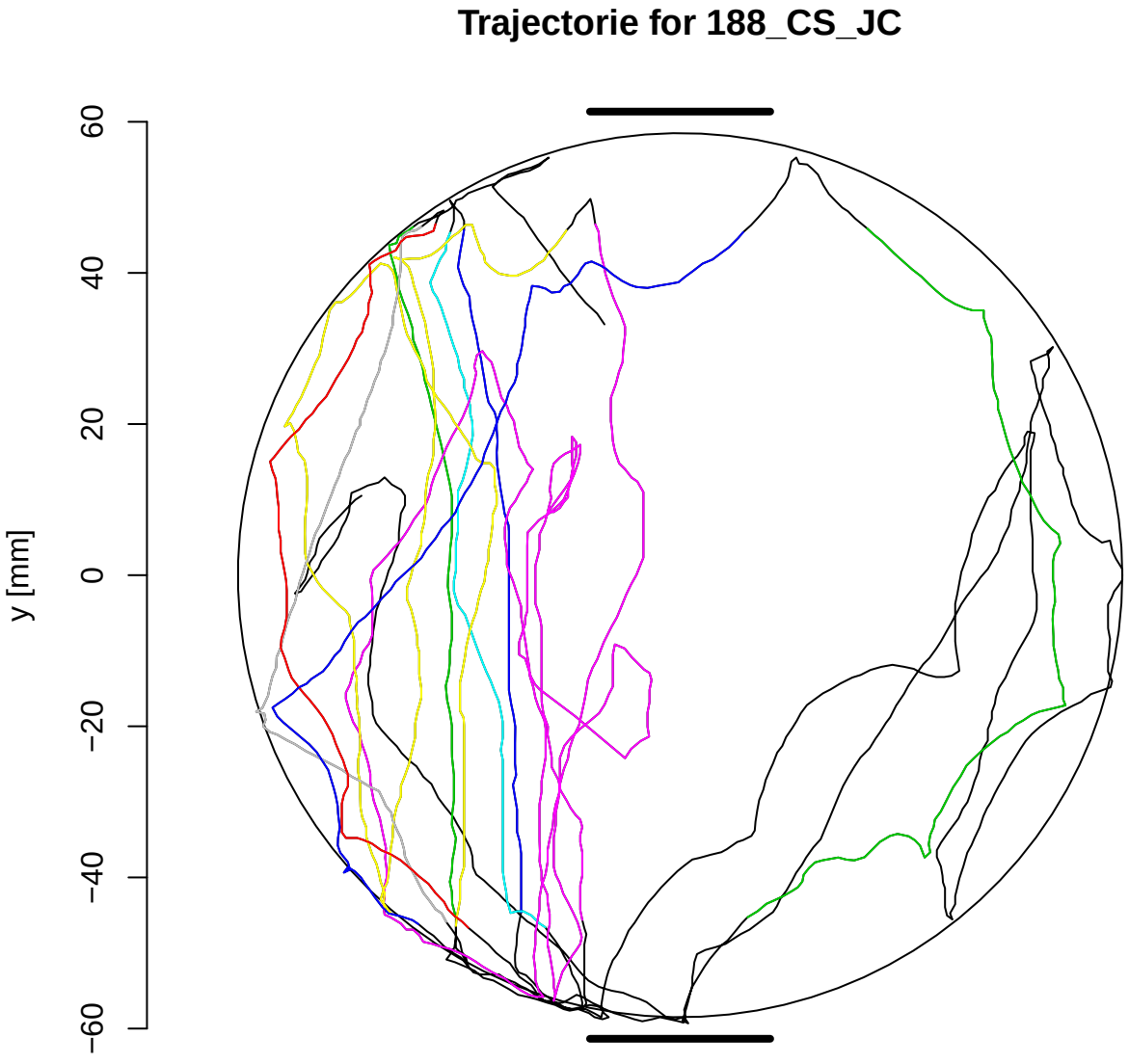
Trajectorie for 188_CS_JC
y [mm]
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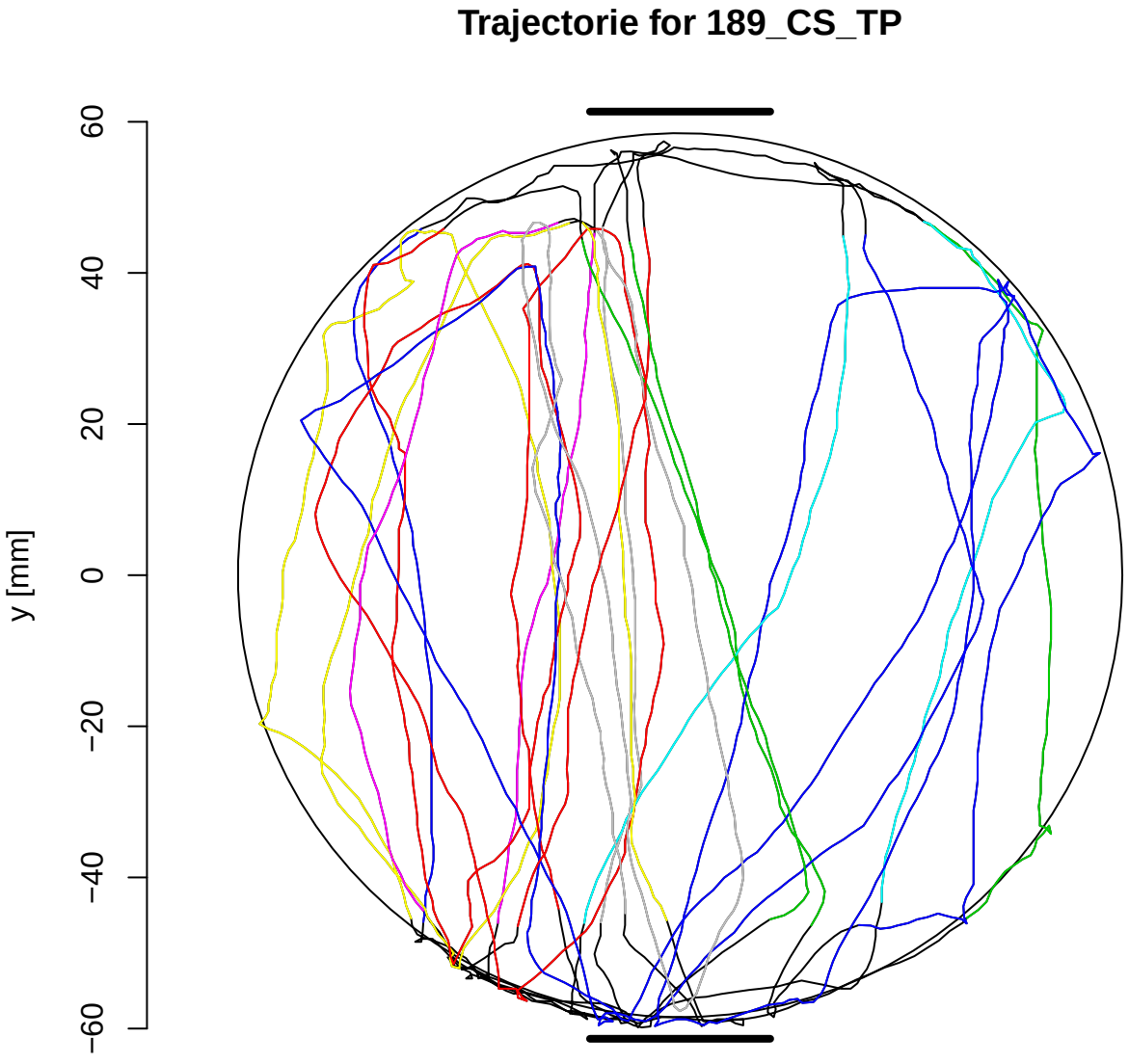
Trajectorie for 189_CS_TP
y [mm]
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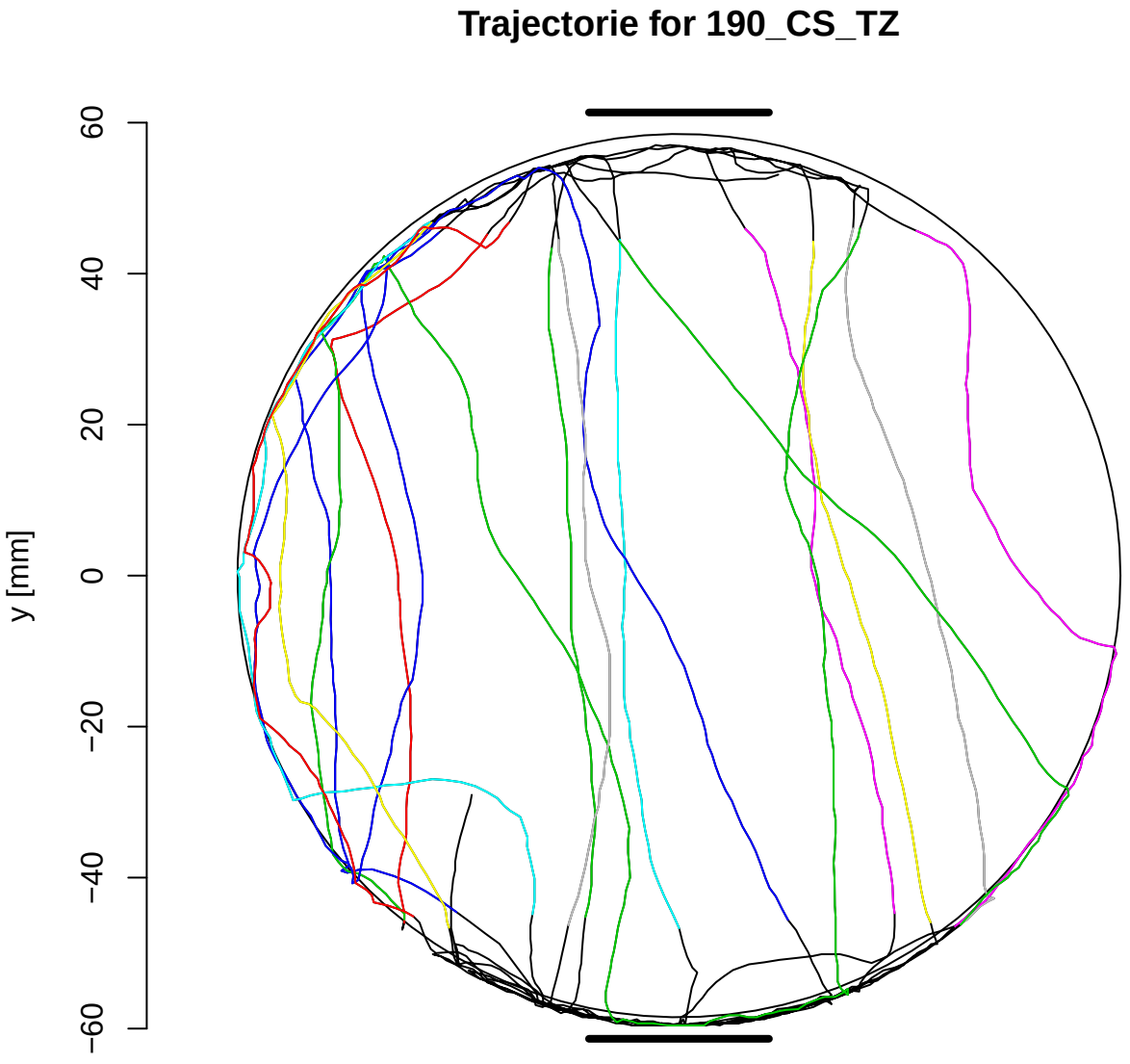
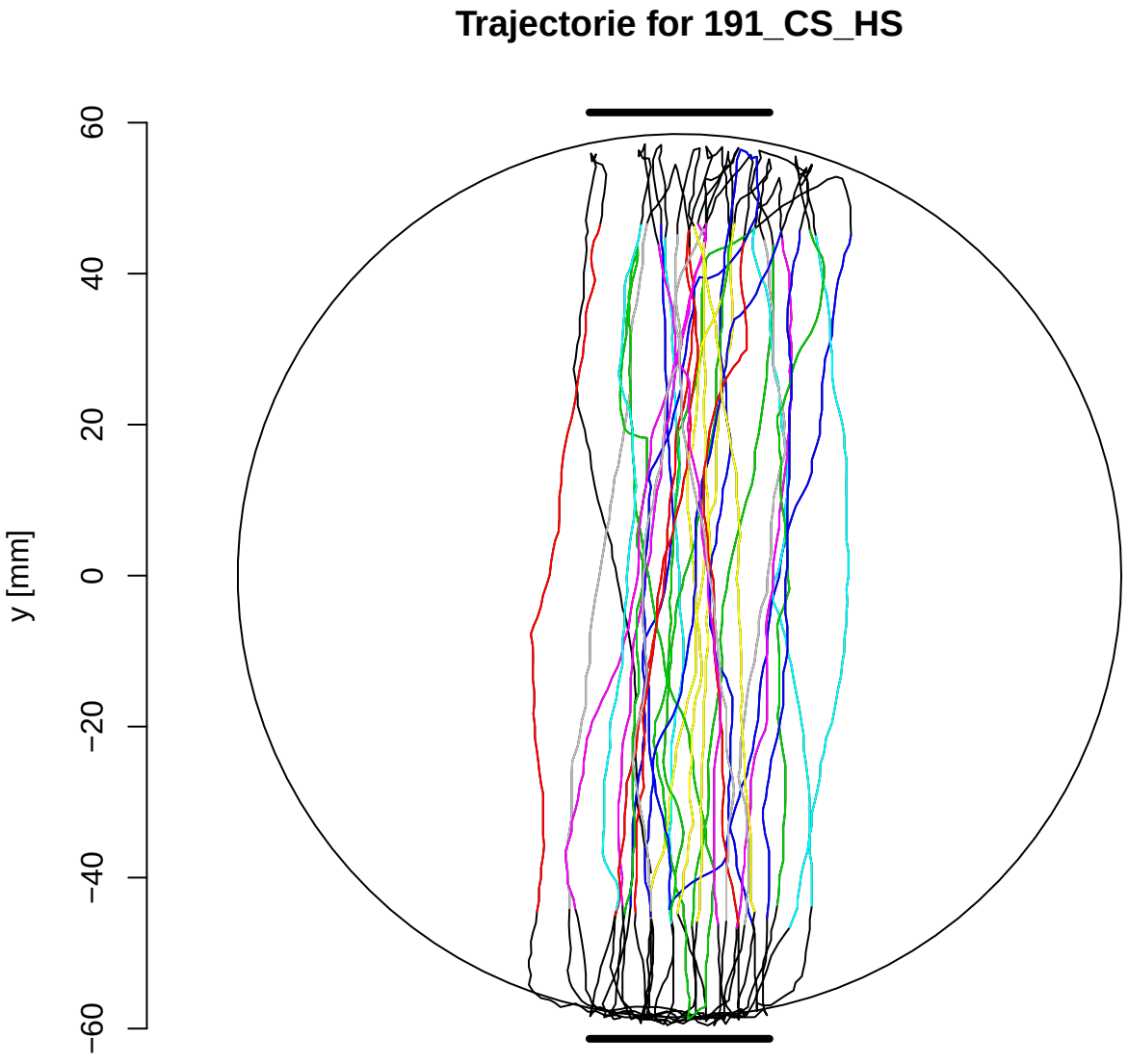
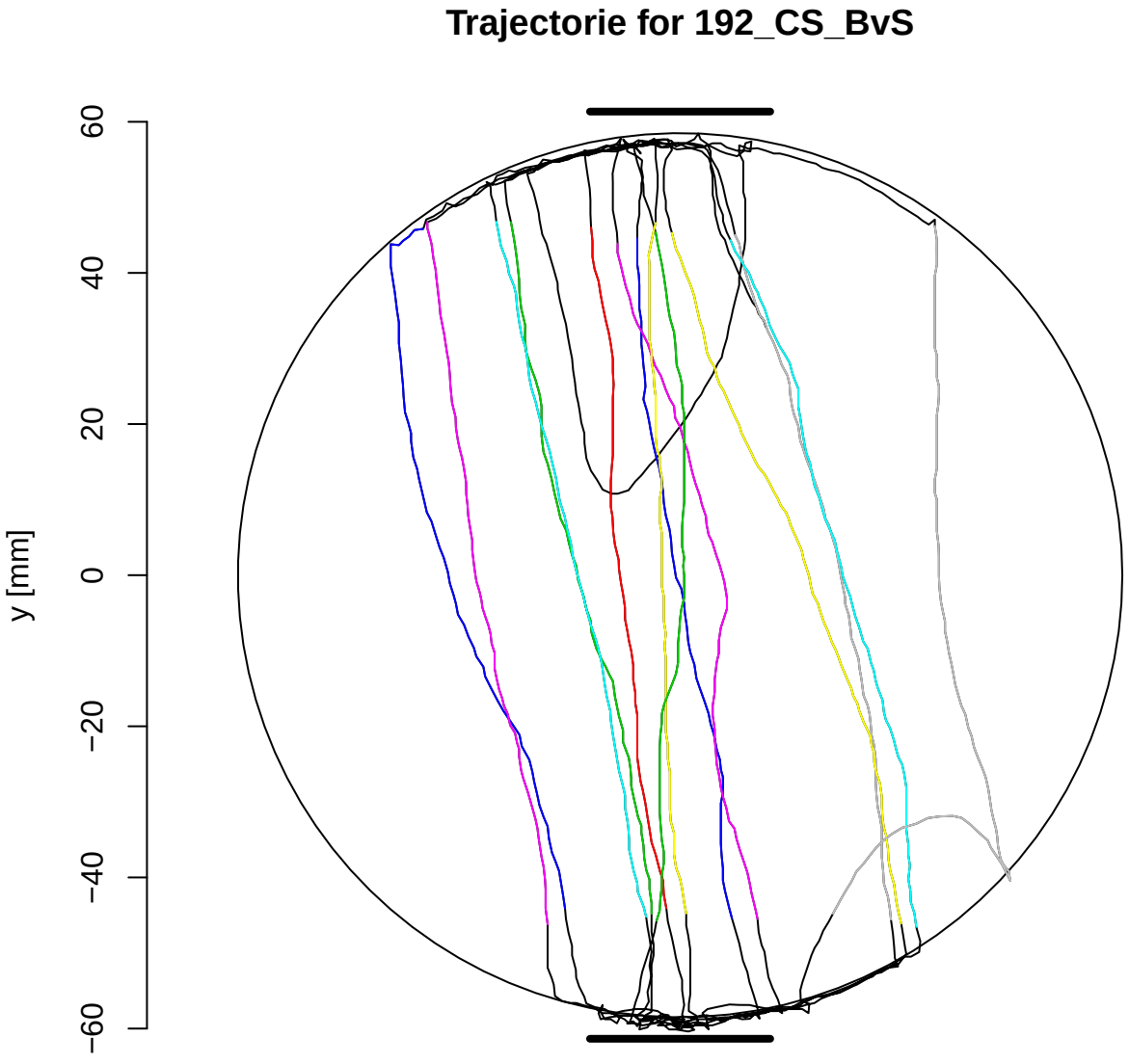
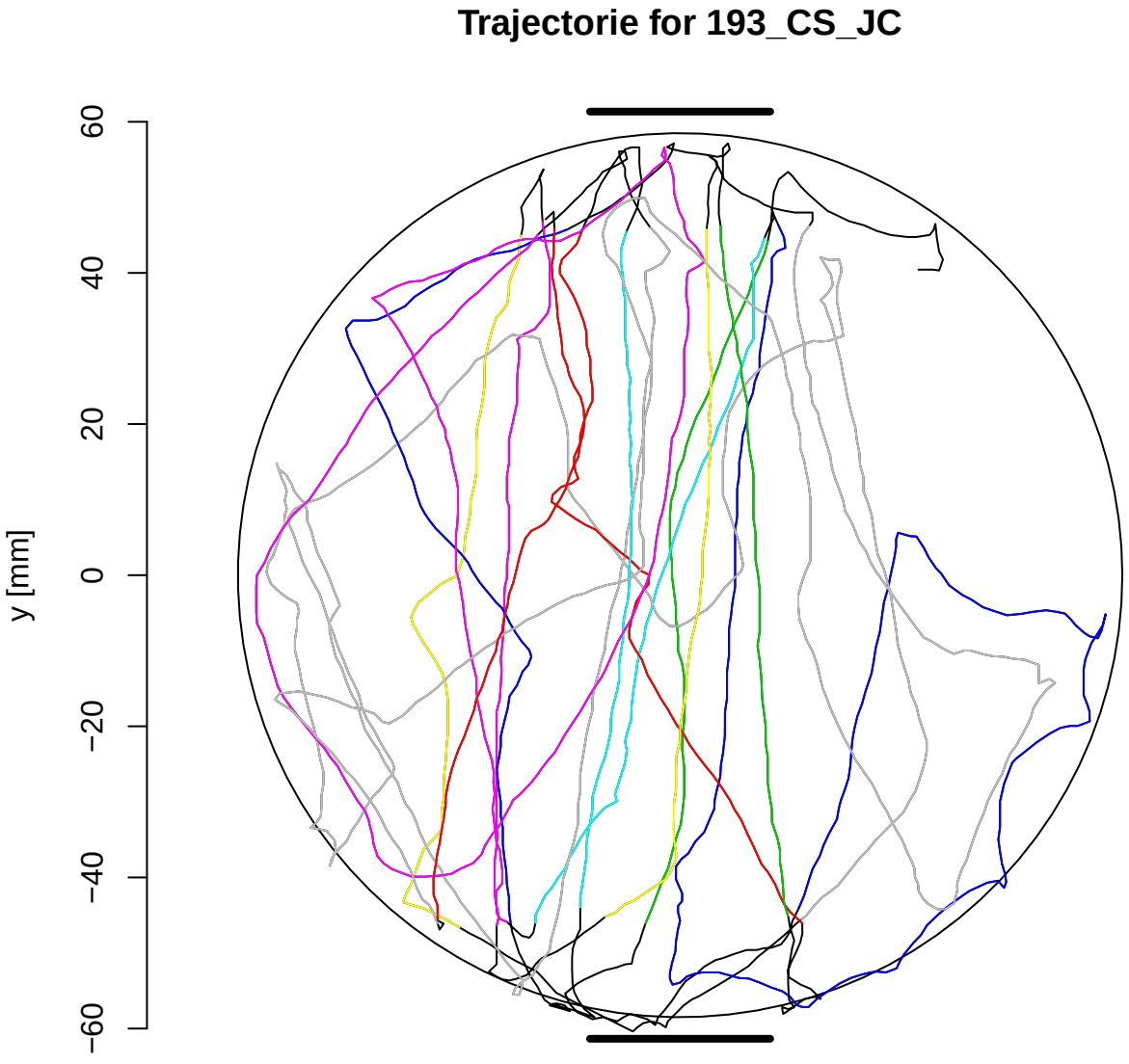
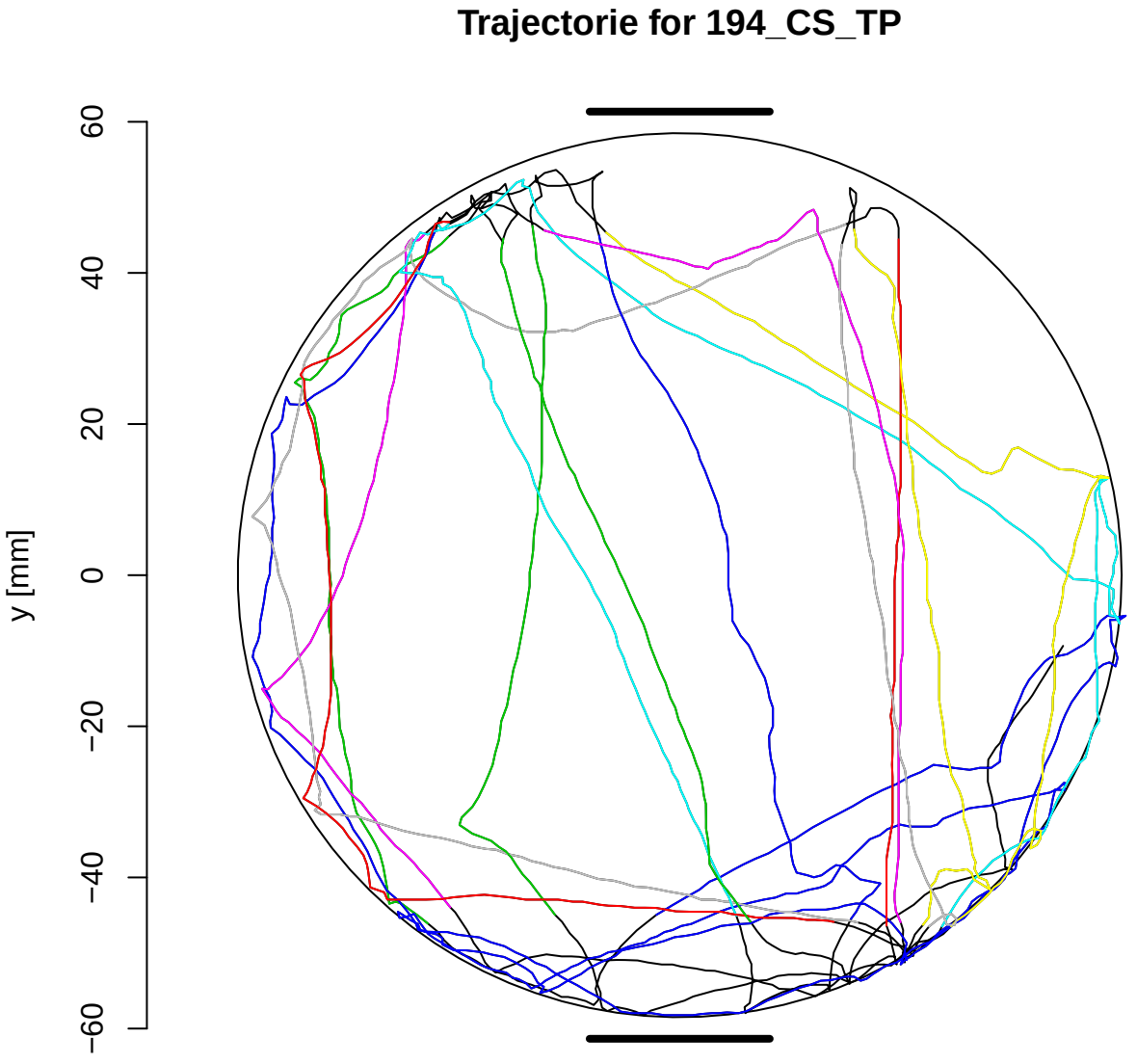
0
−20
−40
−60

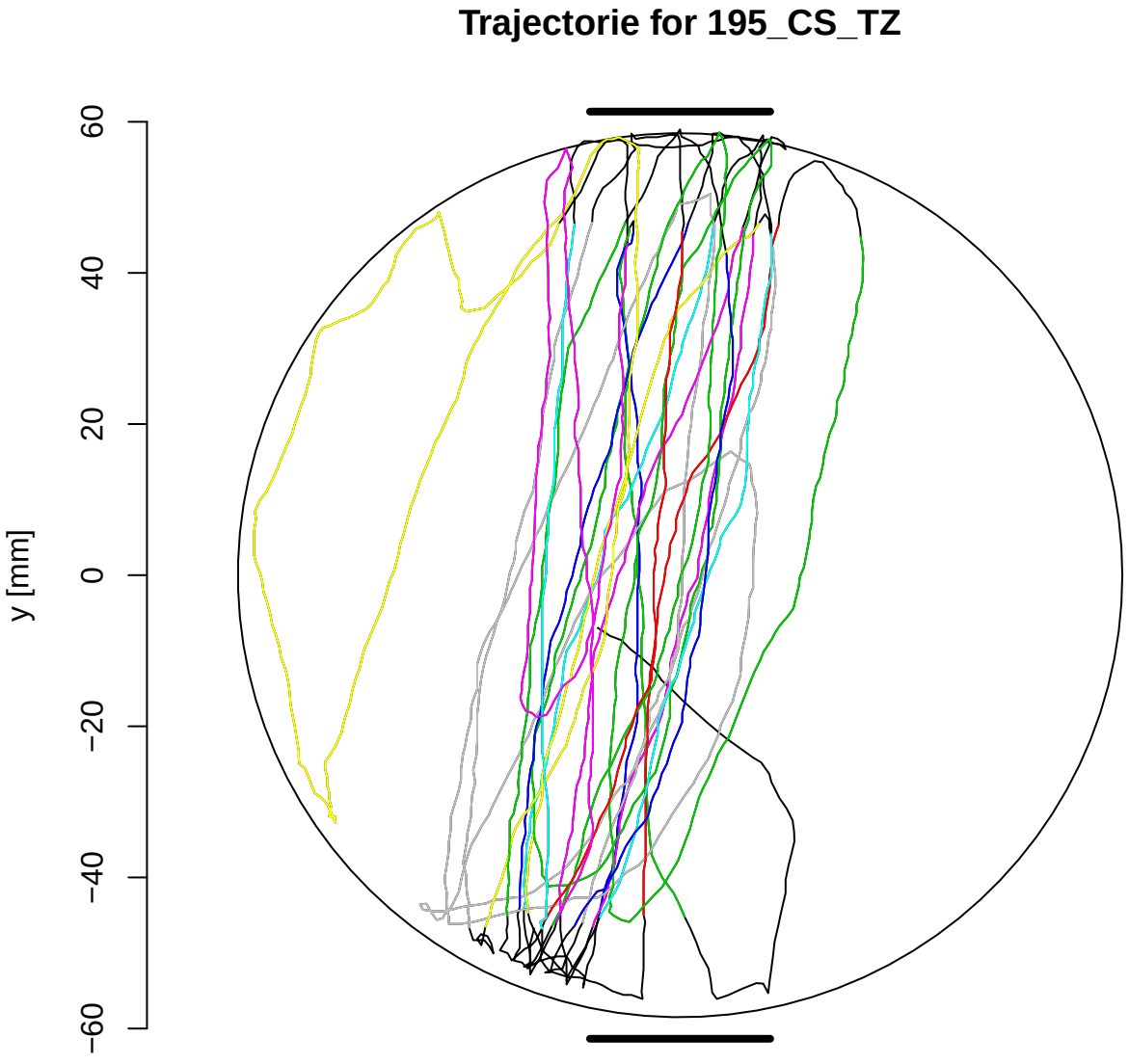

Trajectorie for 190_CS_TZ
y [mm]
60
40
20
0
−20
−40
−60

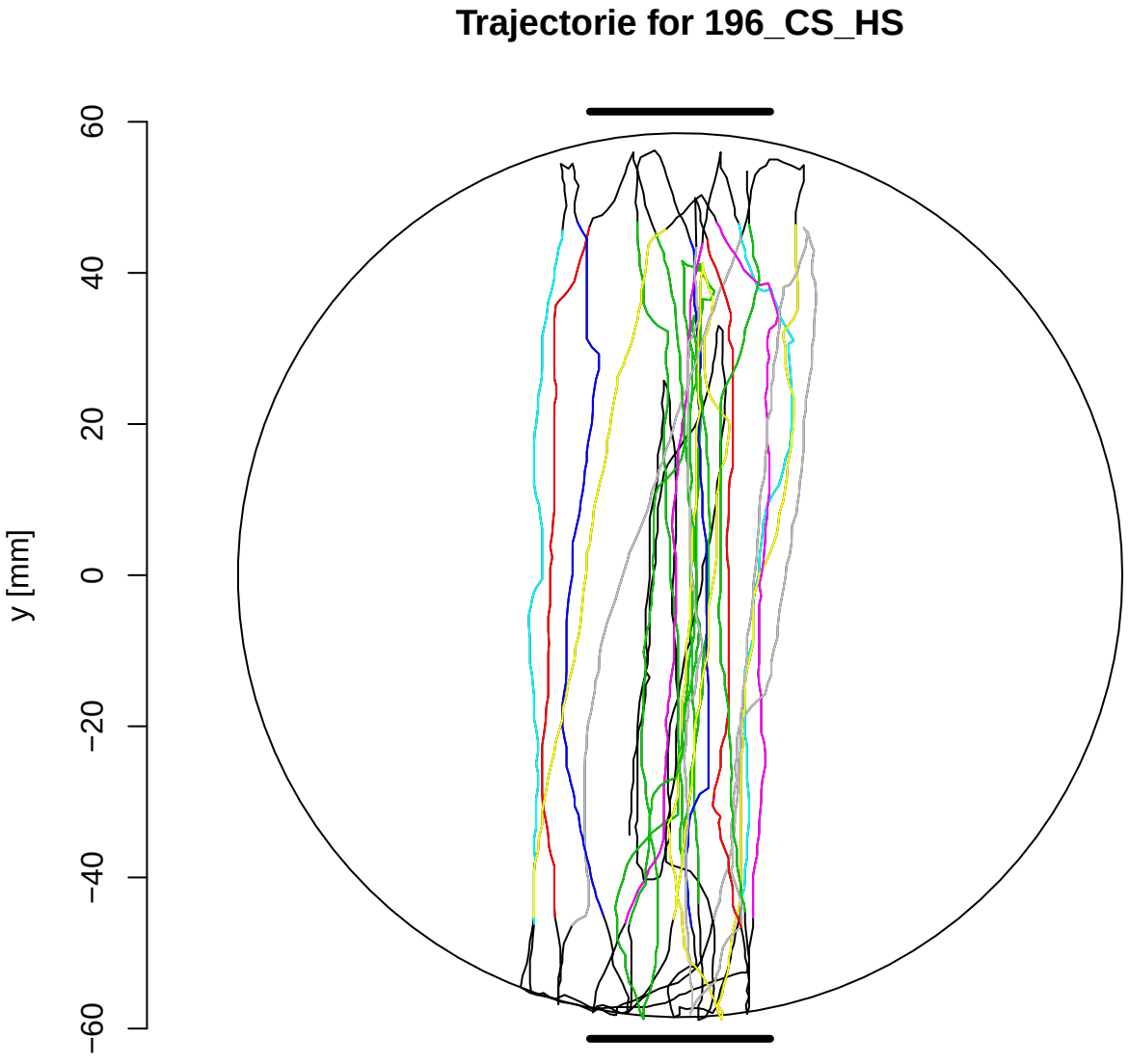

Trajectorie for 191_CS_HS
y [mm]
60
40
20
0
−20
−40
−60

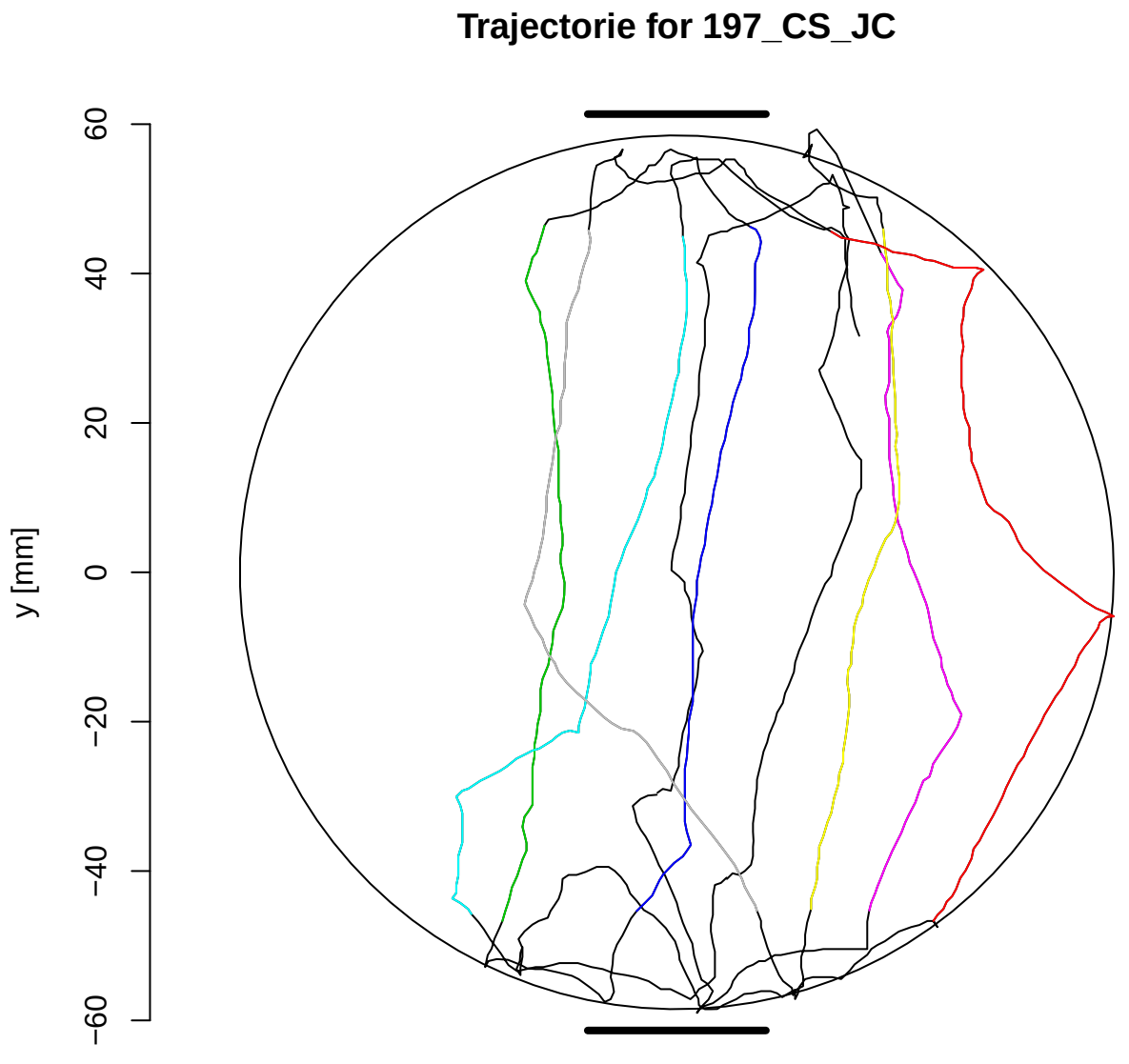

Trajectorie for 192_CS_BvS
y [mm]
60
40
20
0
−20
−40
−60

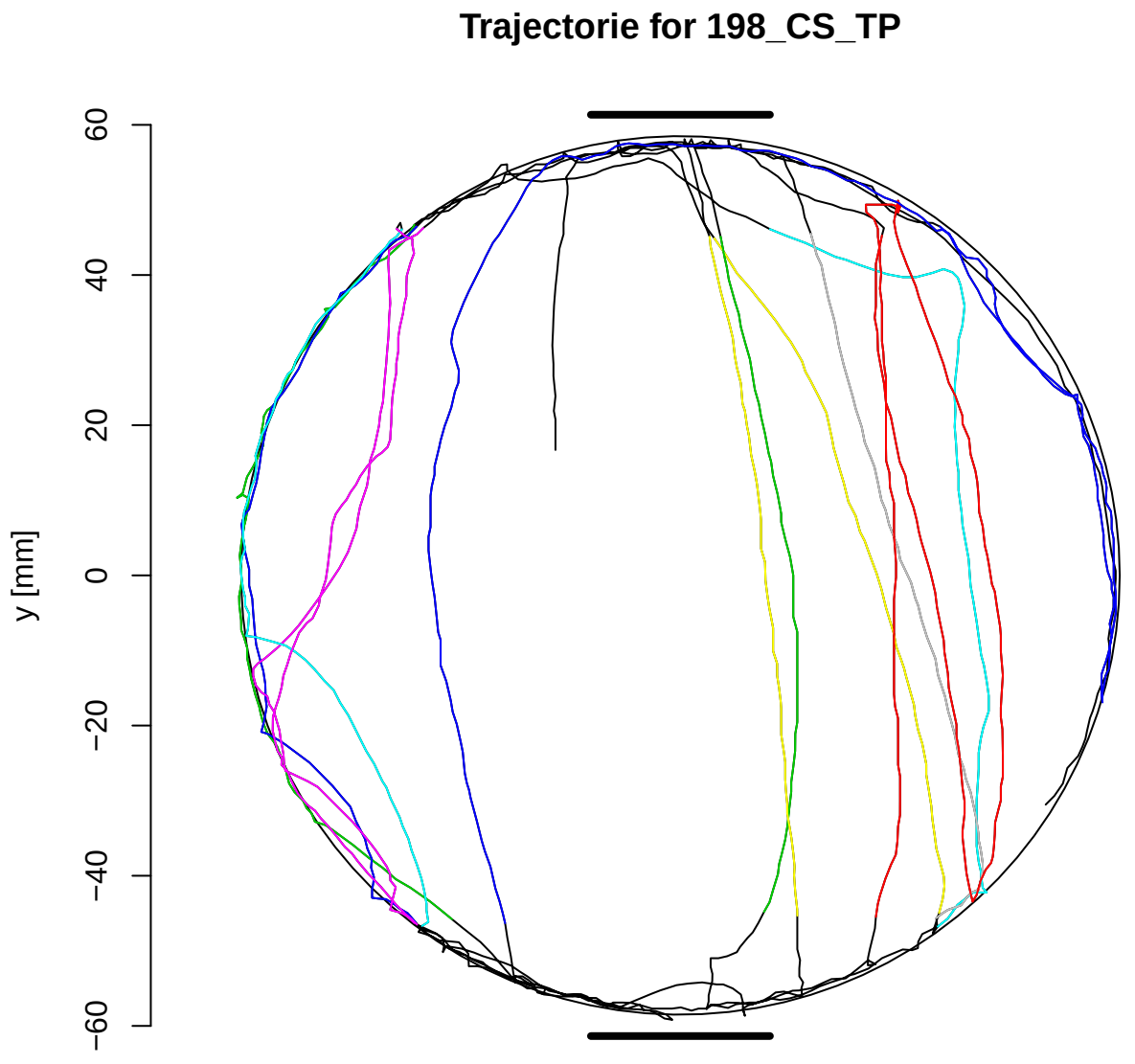

Trajectorie for 193_CS_JC
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 194_CS_TP
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 195_CS_TZ
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 196_CS_HS
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 197_CS_JC
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 198_CS_TP
y [mm]
60
40
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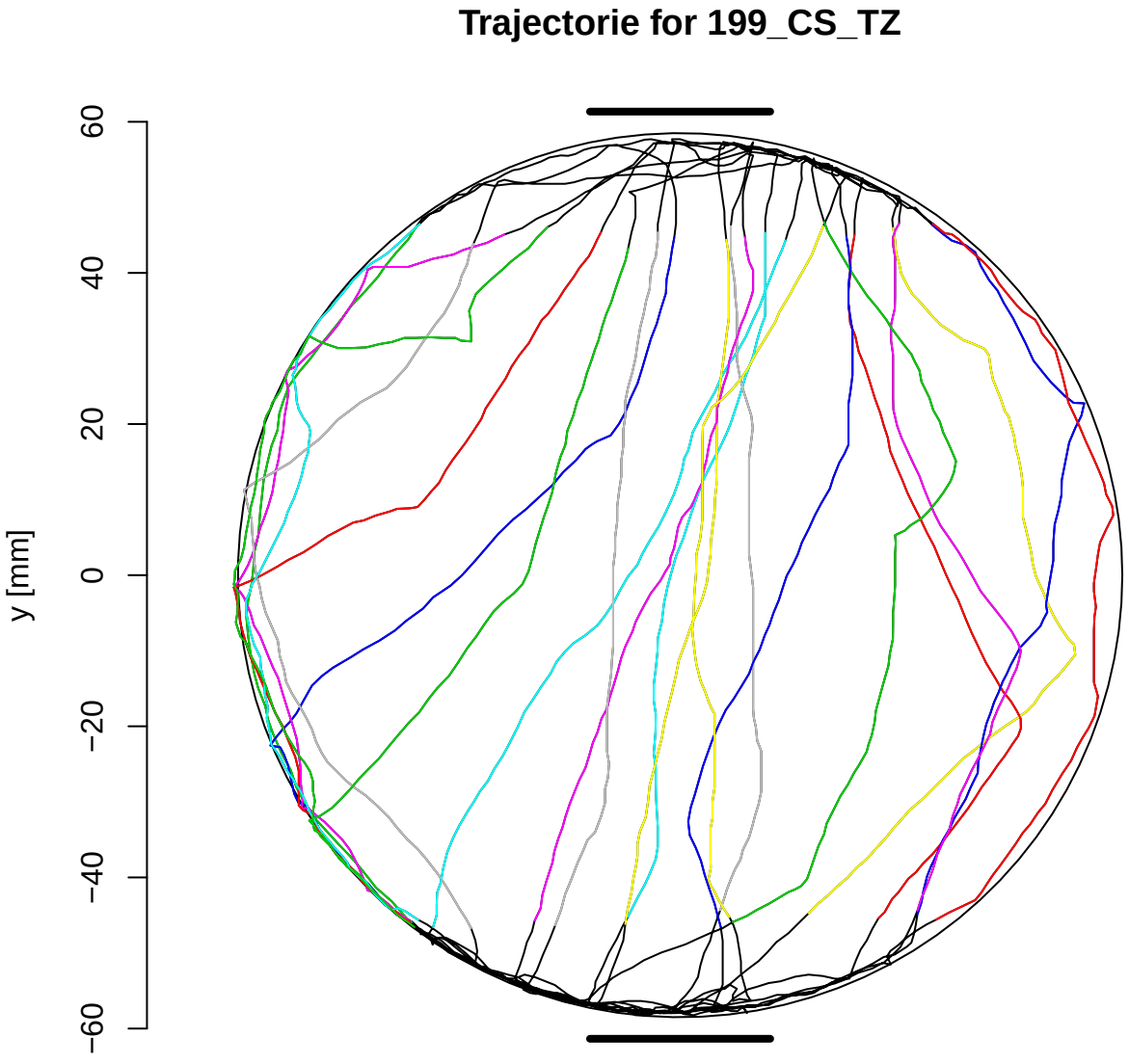
0
−20
−40
−60


Trajectorie for 199_CS_TZ
y [mm]
60
40
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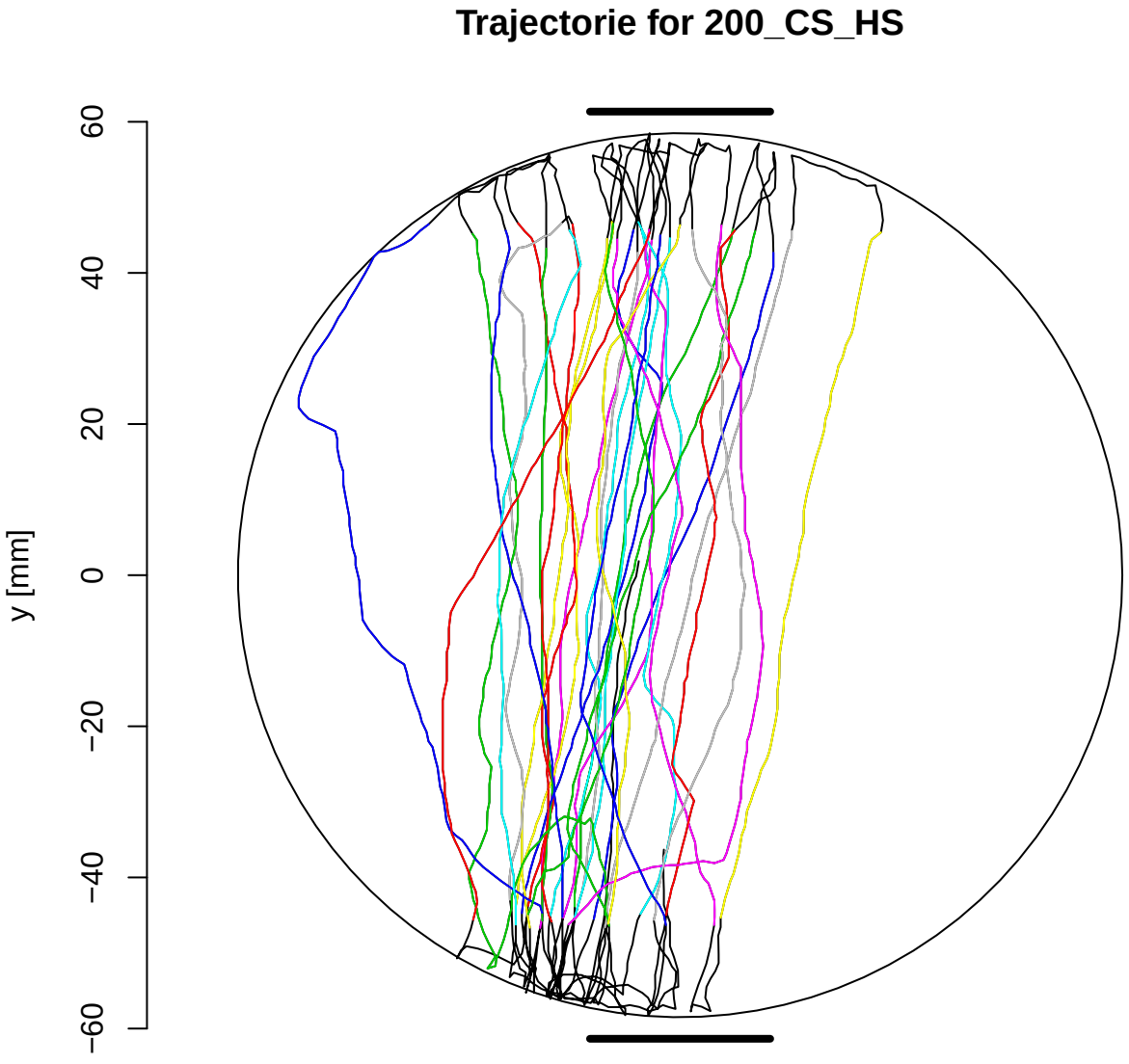
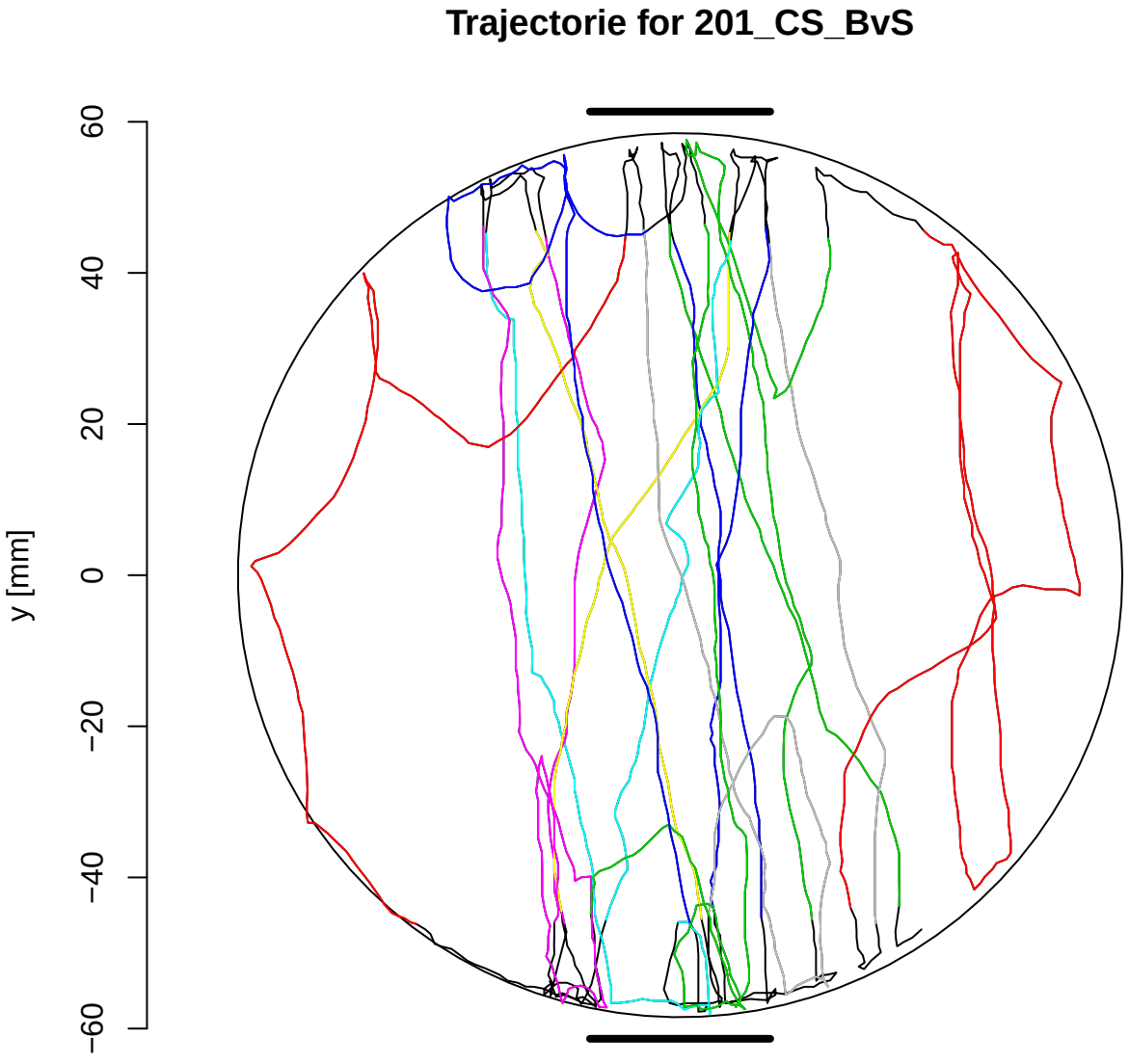
0
−20
−40
−60


Trajectorie for 200_CS_HS
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 201_CS_BvS
y [mm]
60
40
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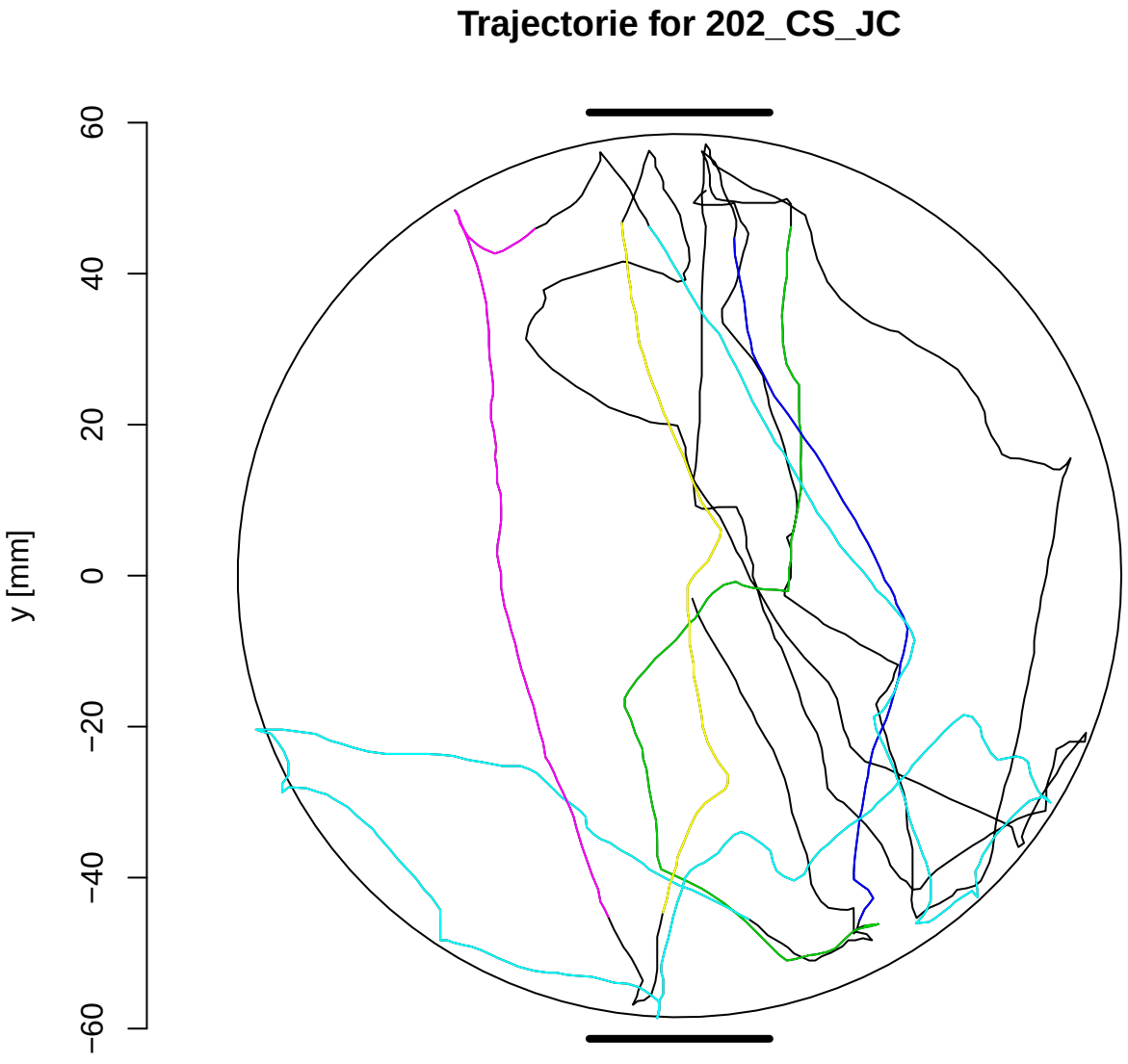
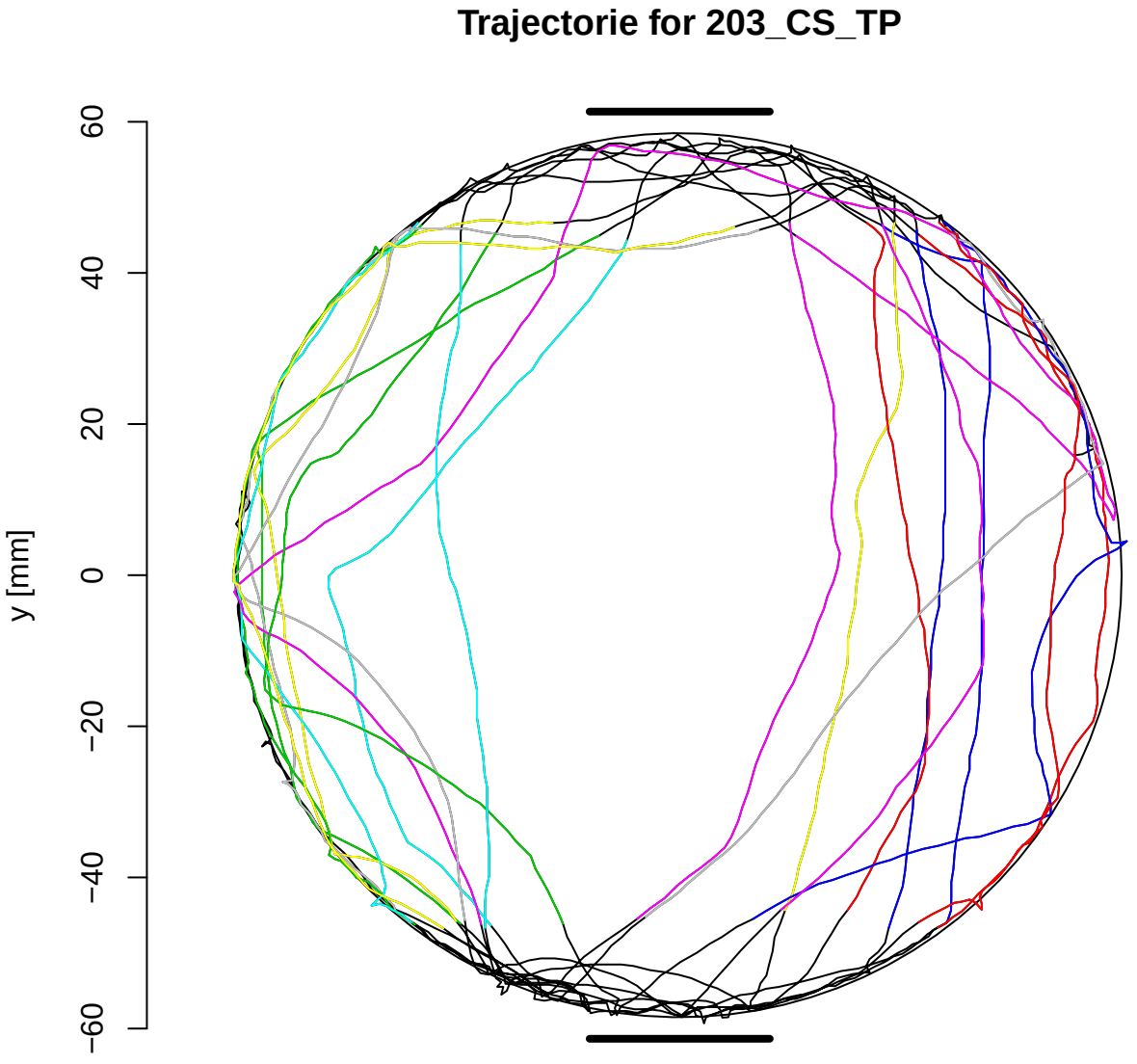
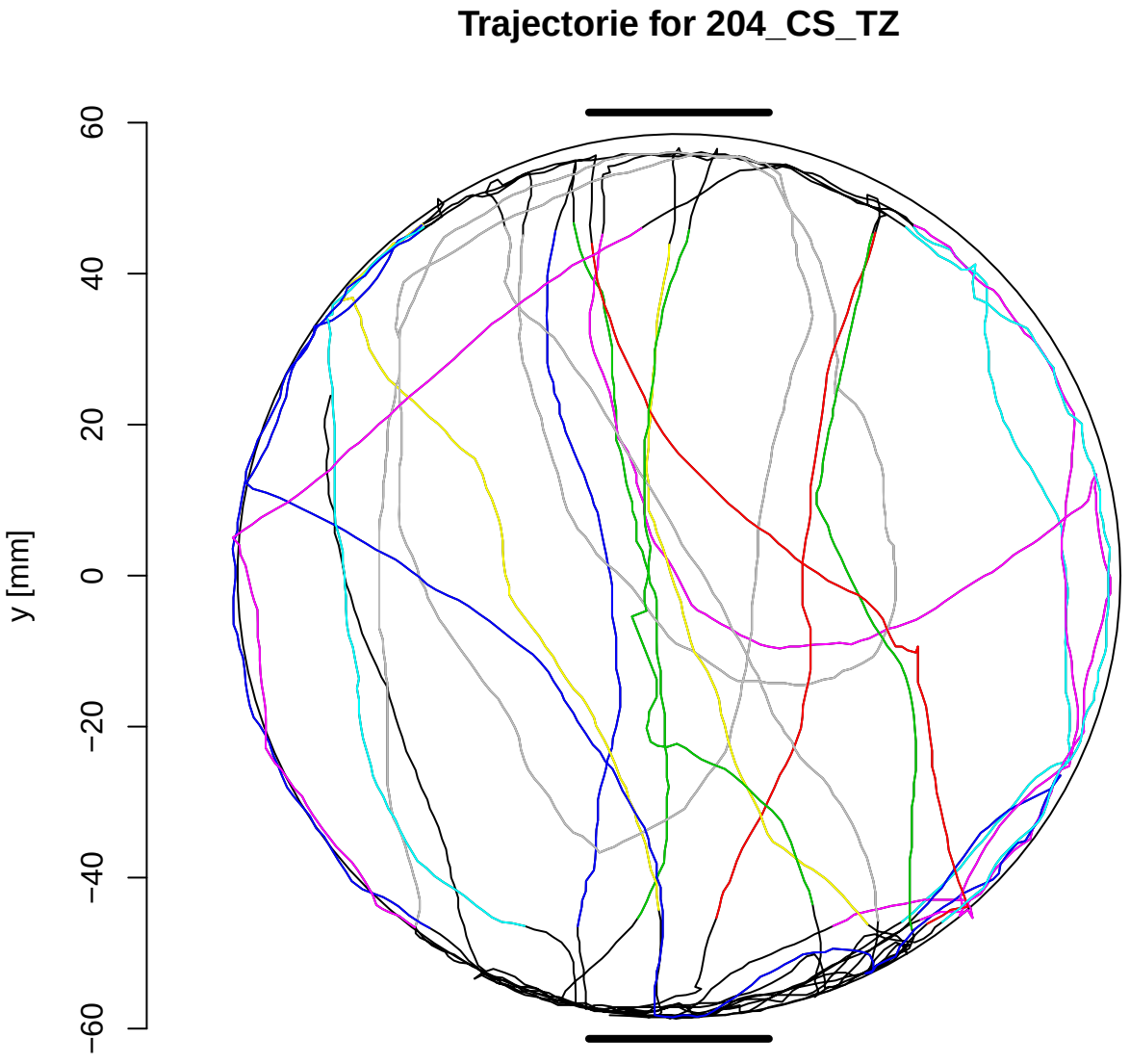
0
−20
−40
−60


Trajectorie for 202_CS_JC
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 203_CS_TP
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 204_CS_TZ
y [mm]
60
40
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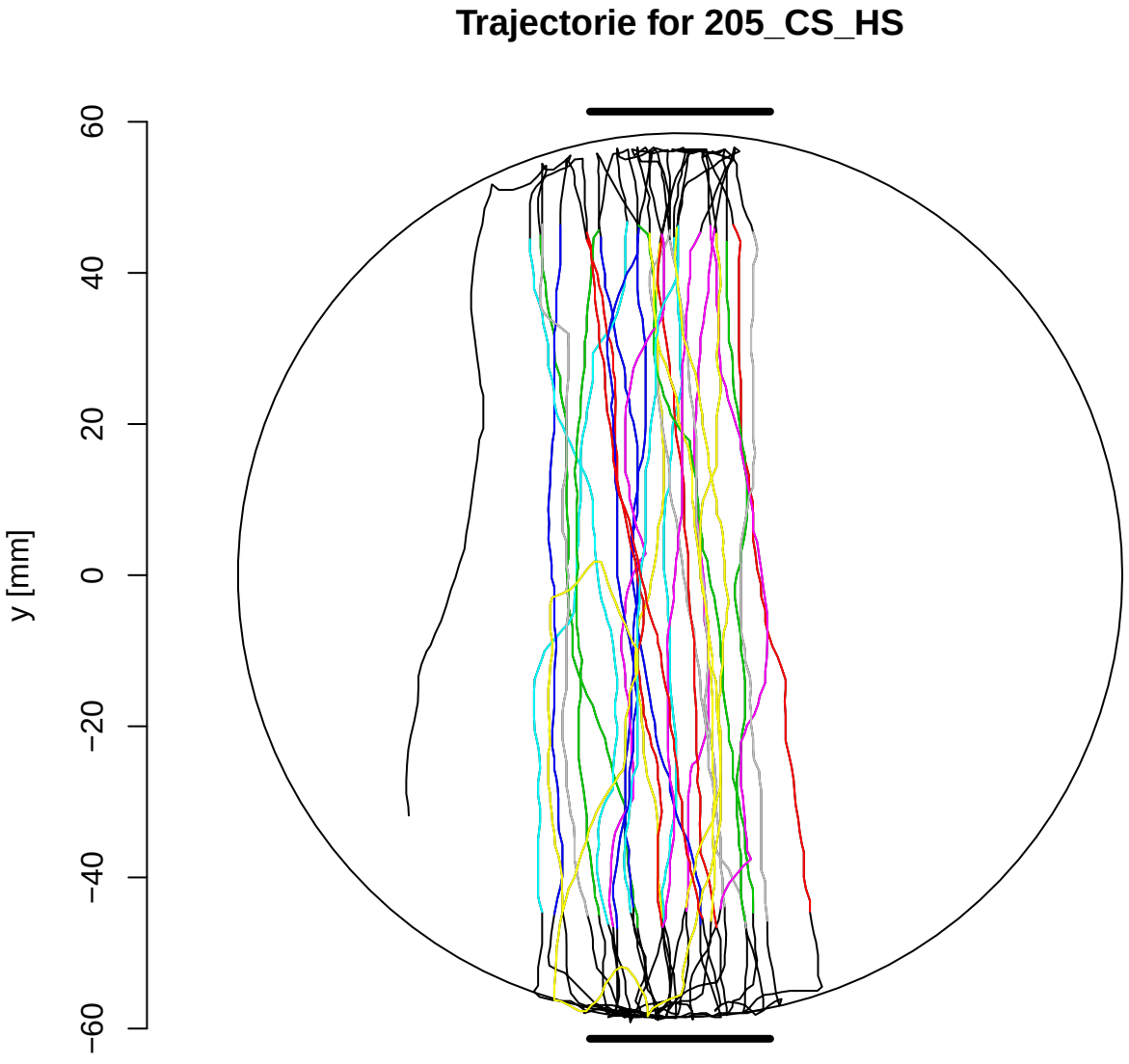
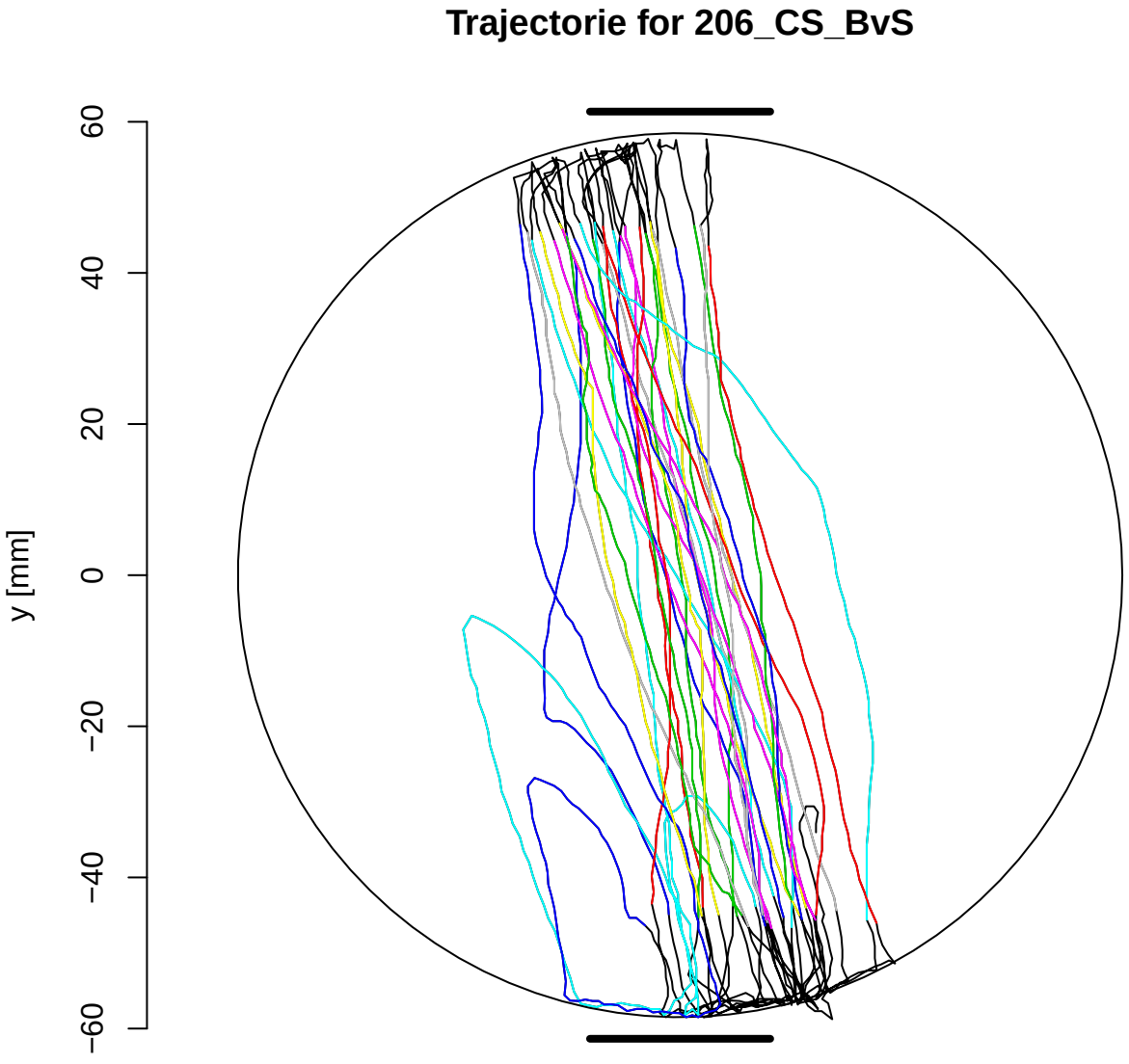
0
−20
−40
−60


Trajectorie for 205_CS_HS
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 206_CS_BvS
y [mm]
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40
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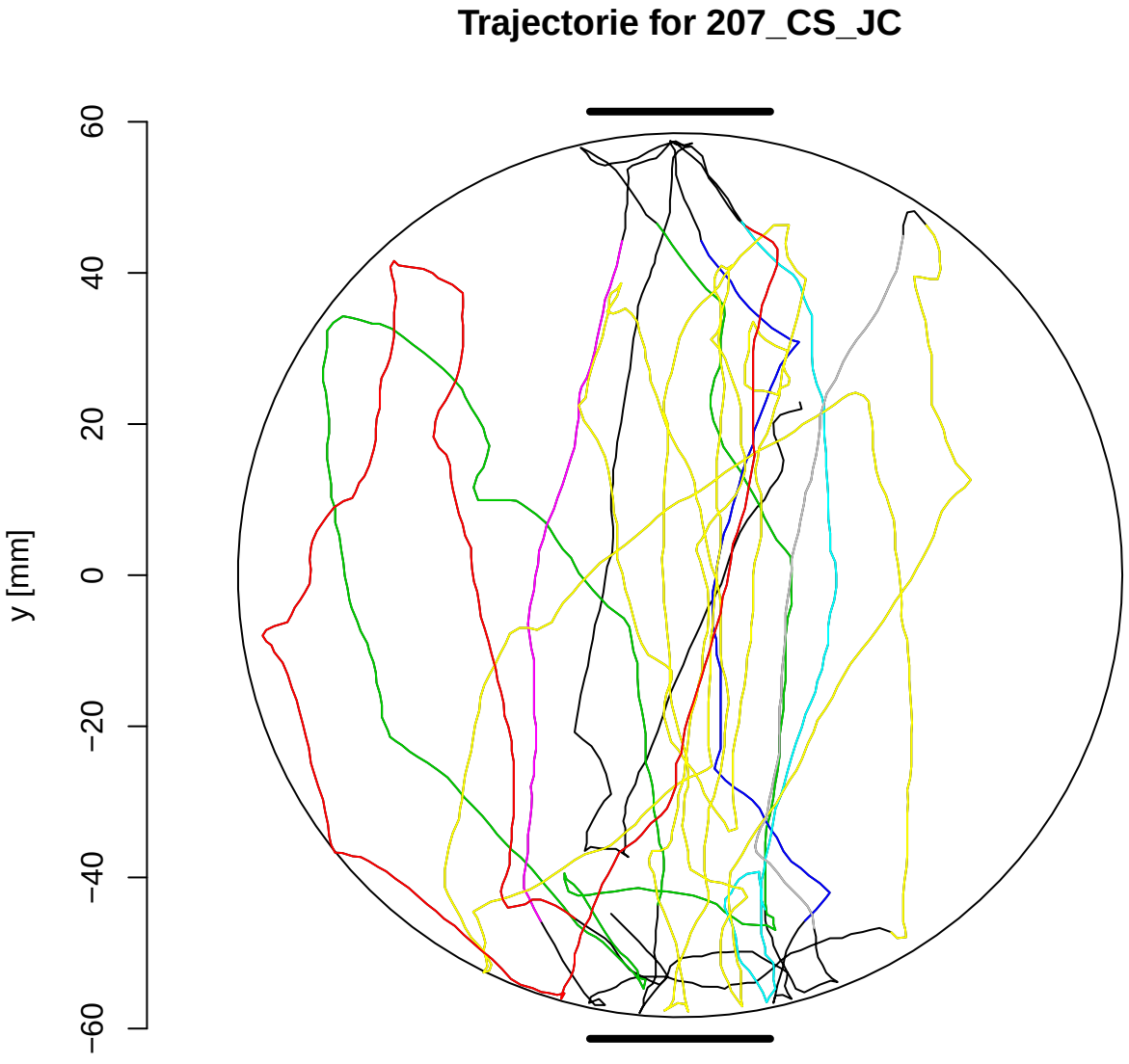
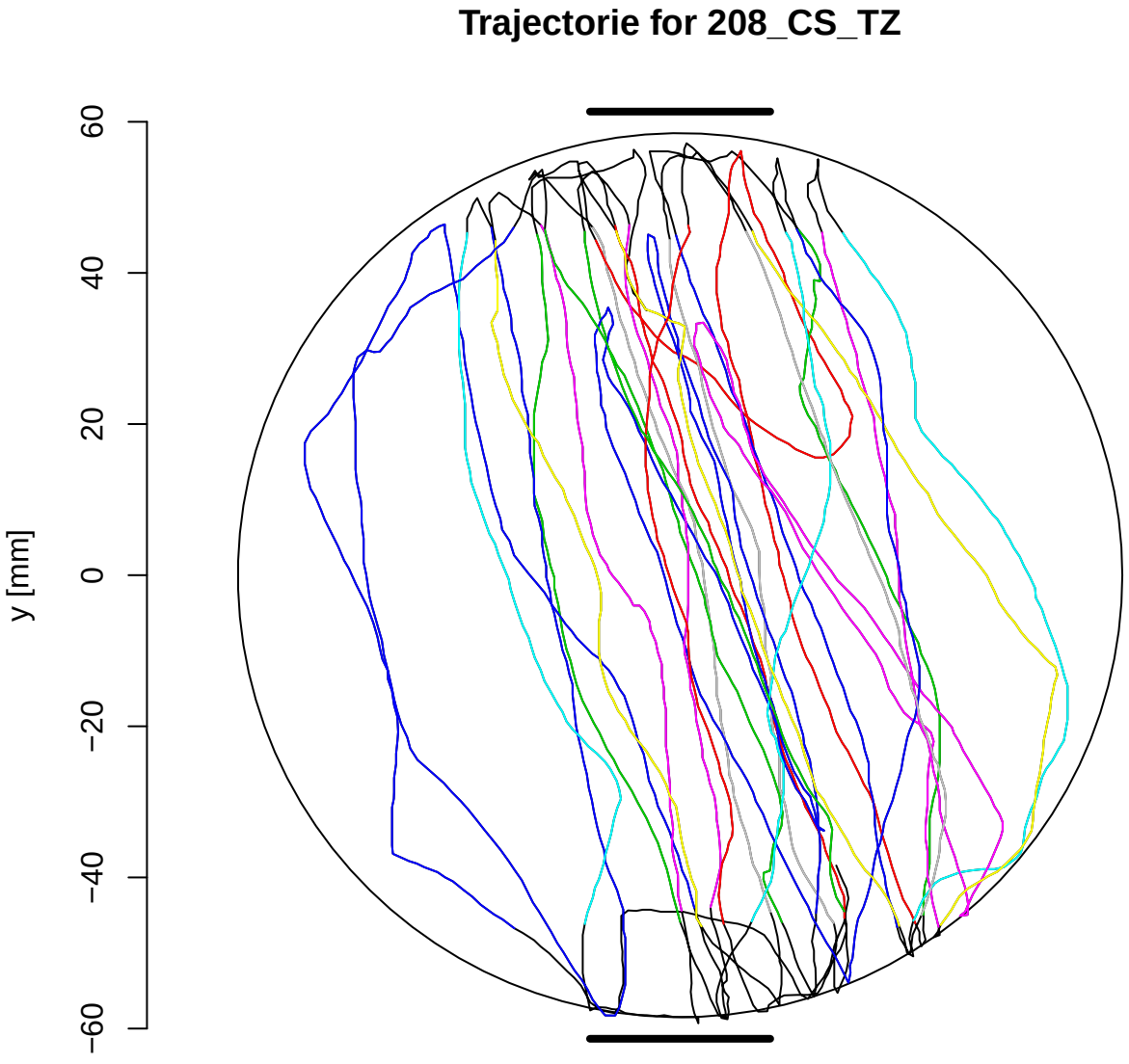
0
−20
−40
−60


Trajectorie for 207_CS_JC
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 208_CS_TZ
y [mm]
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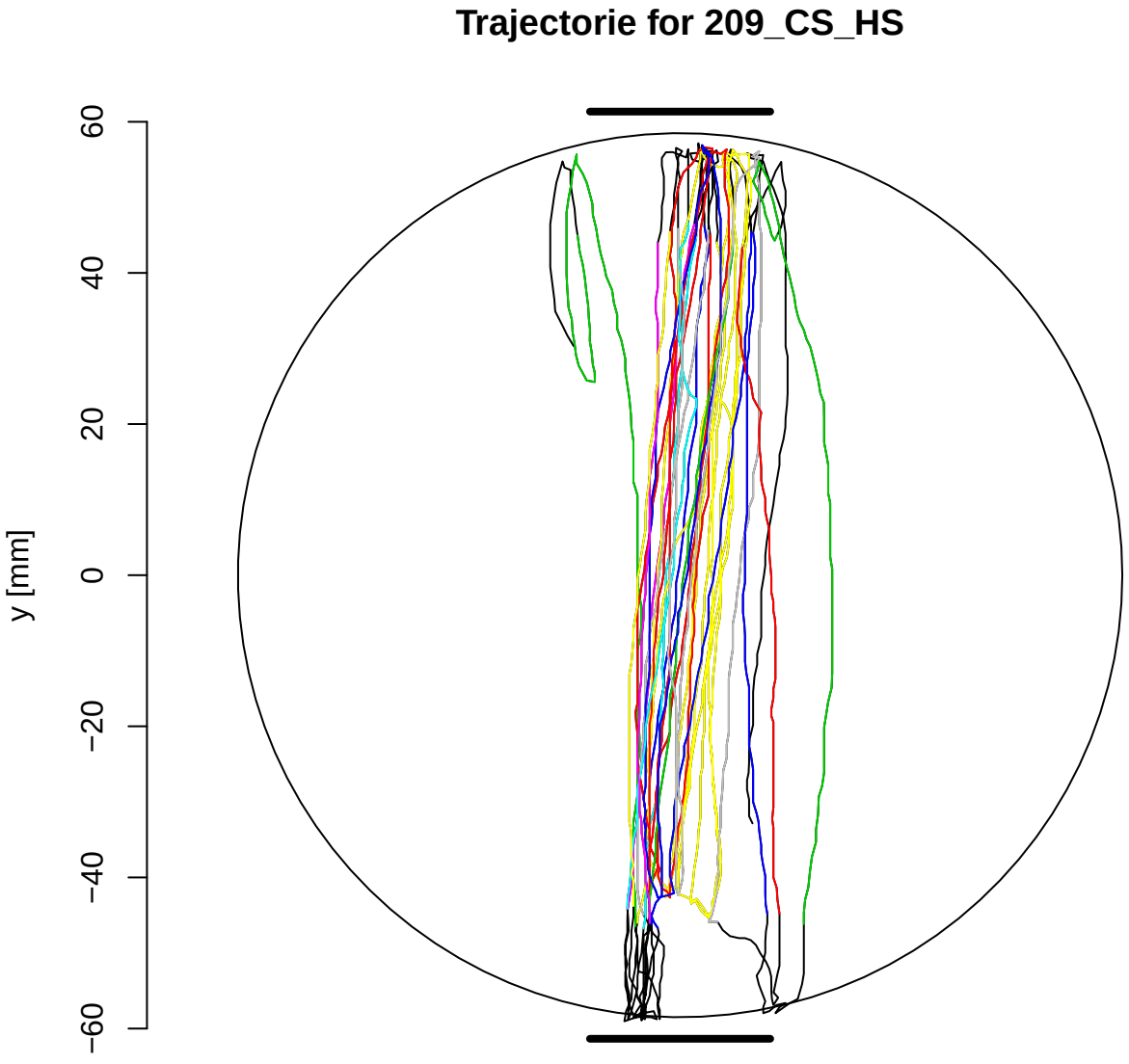
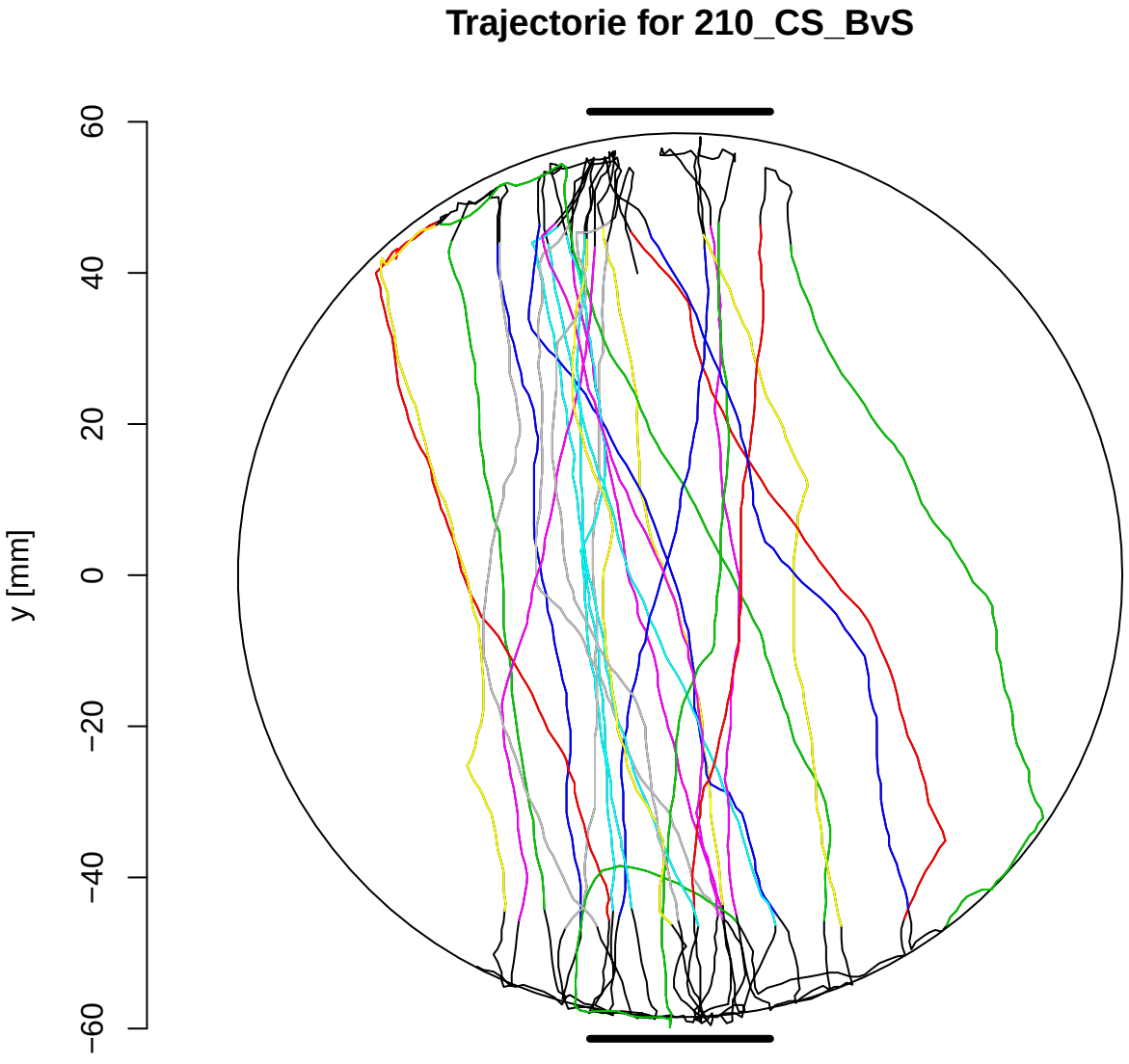
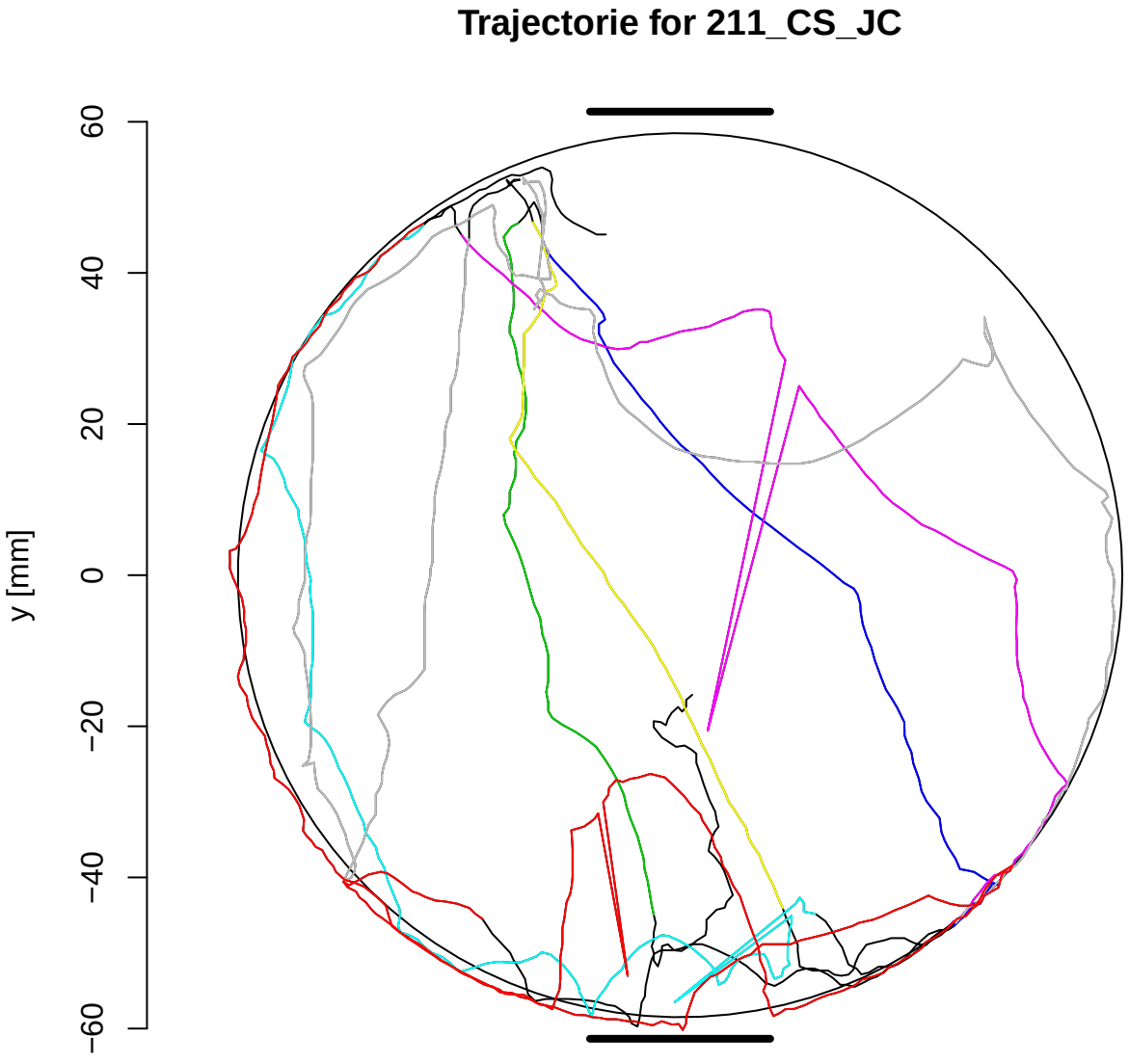
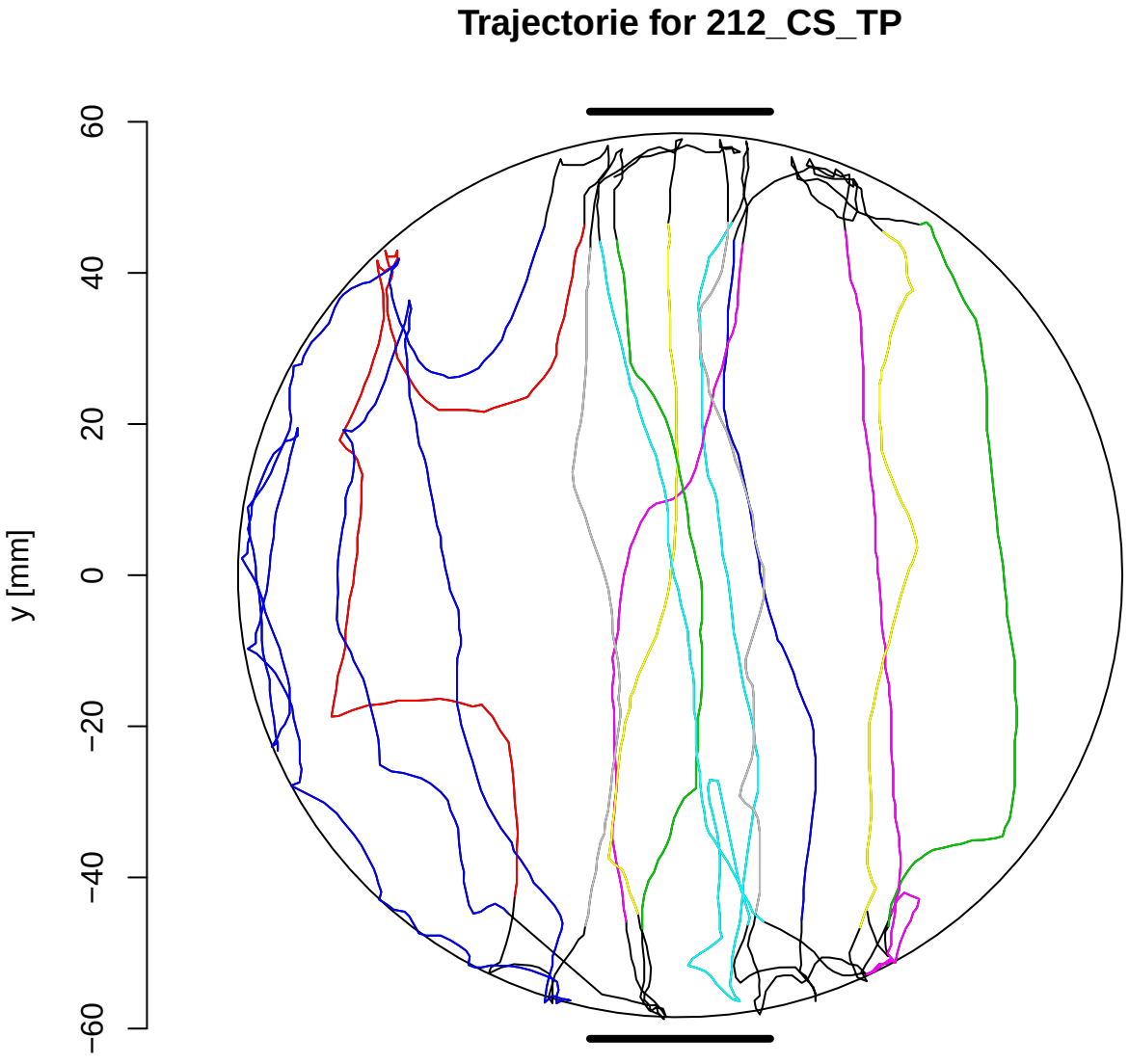
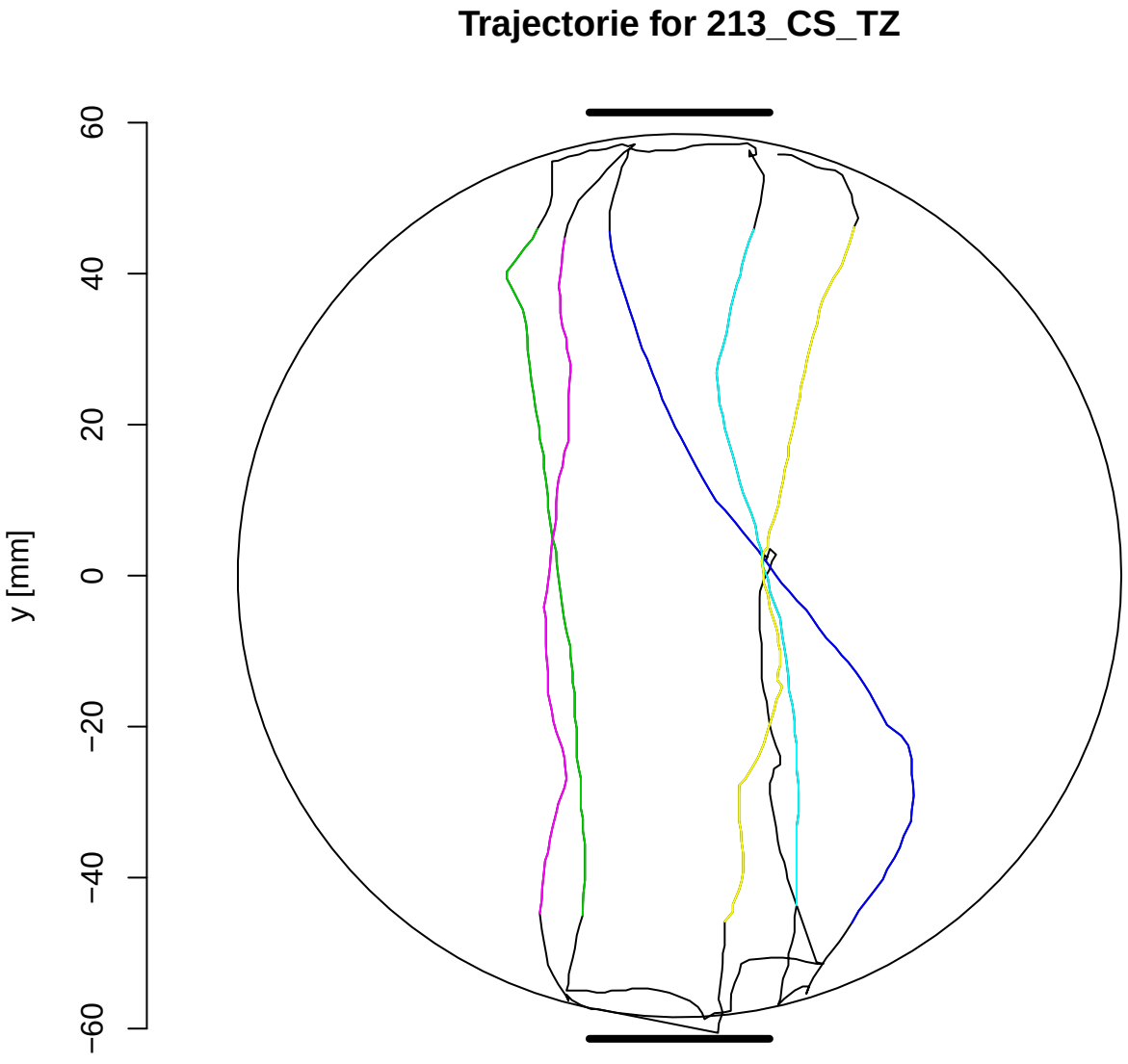
40
20
0
−20
−40
−60

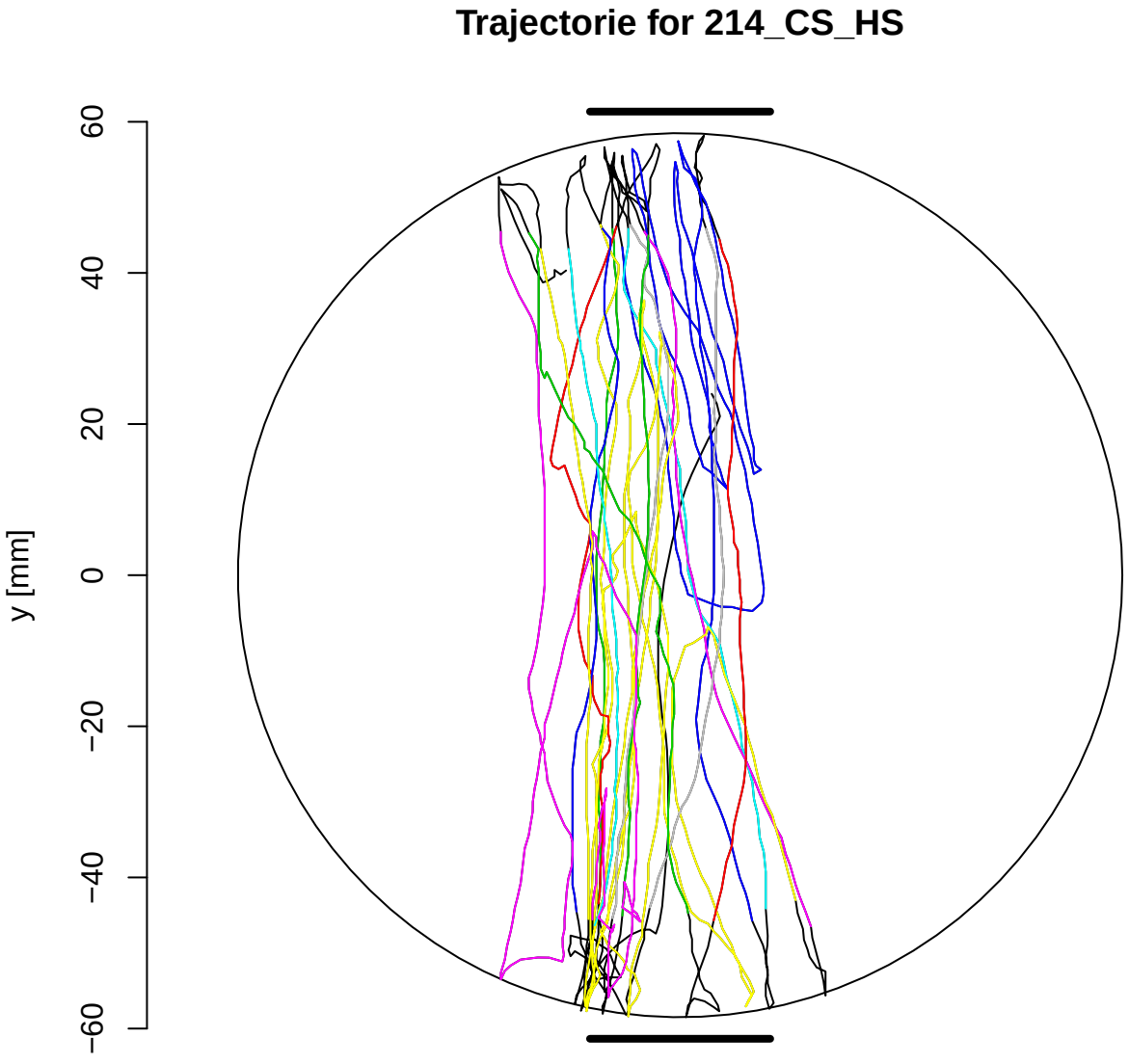

Trajectorie for 209_CS_HS
y [mm]
60
40
20
0
−20
−40
−60

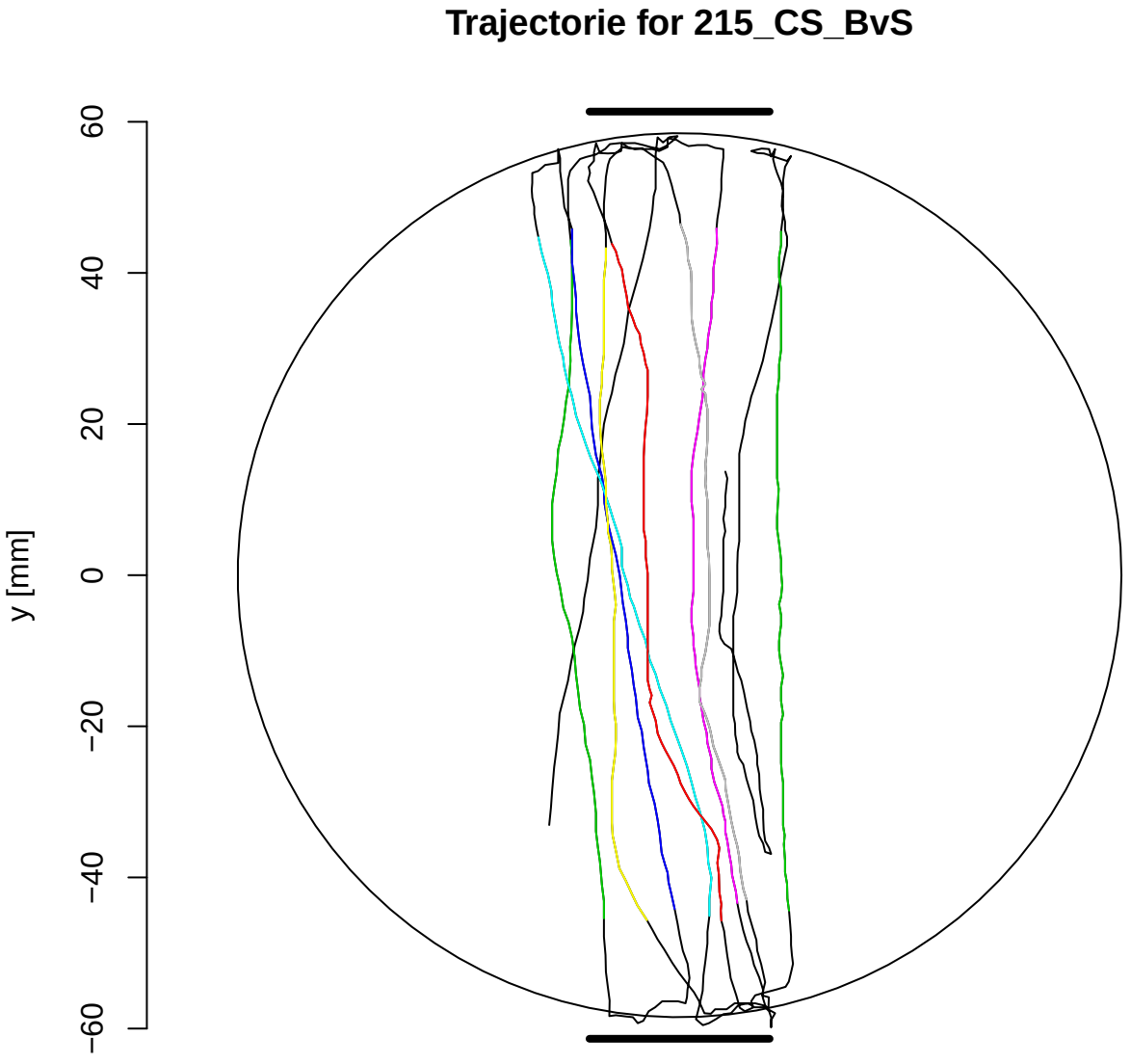

Trajectorie for 210_CS_BvS
y [mm]
60
40
20
0
−20
−40
−60

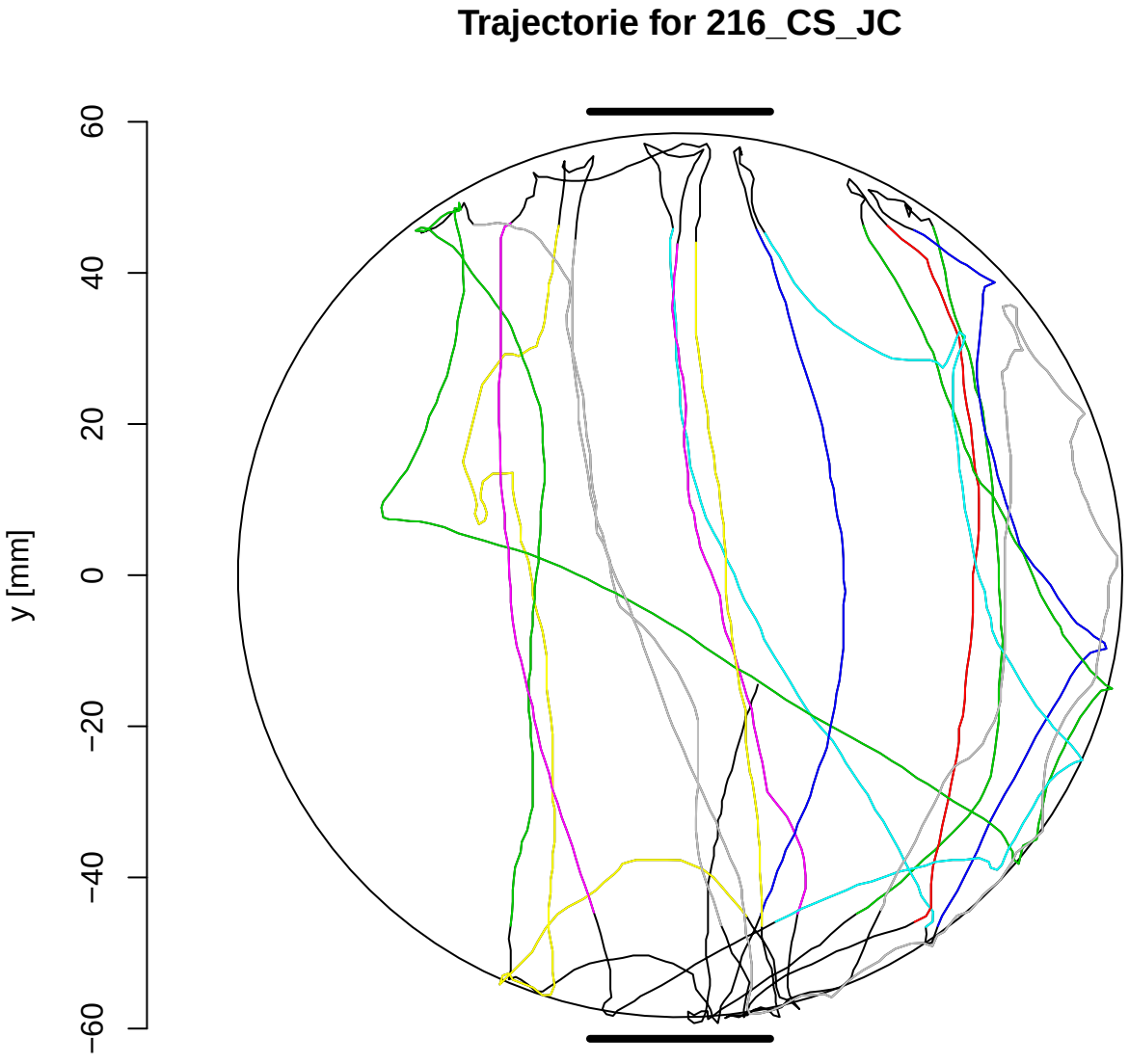

Trajectorie for 211_CS_JC
y [mm]
60
40
20
0
−20
−40
−60

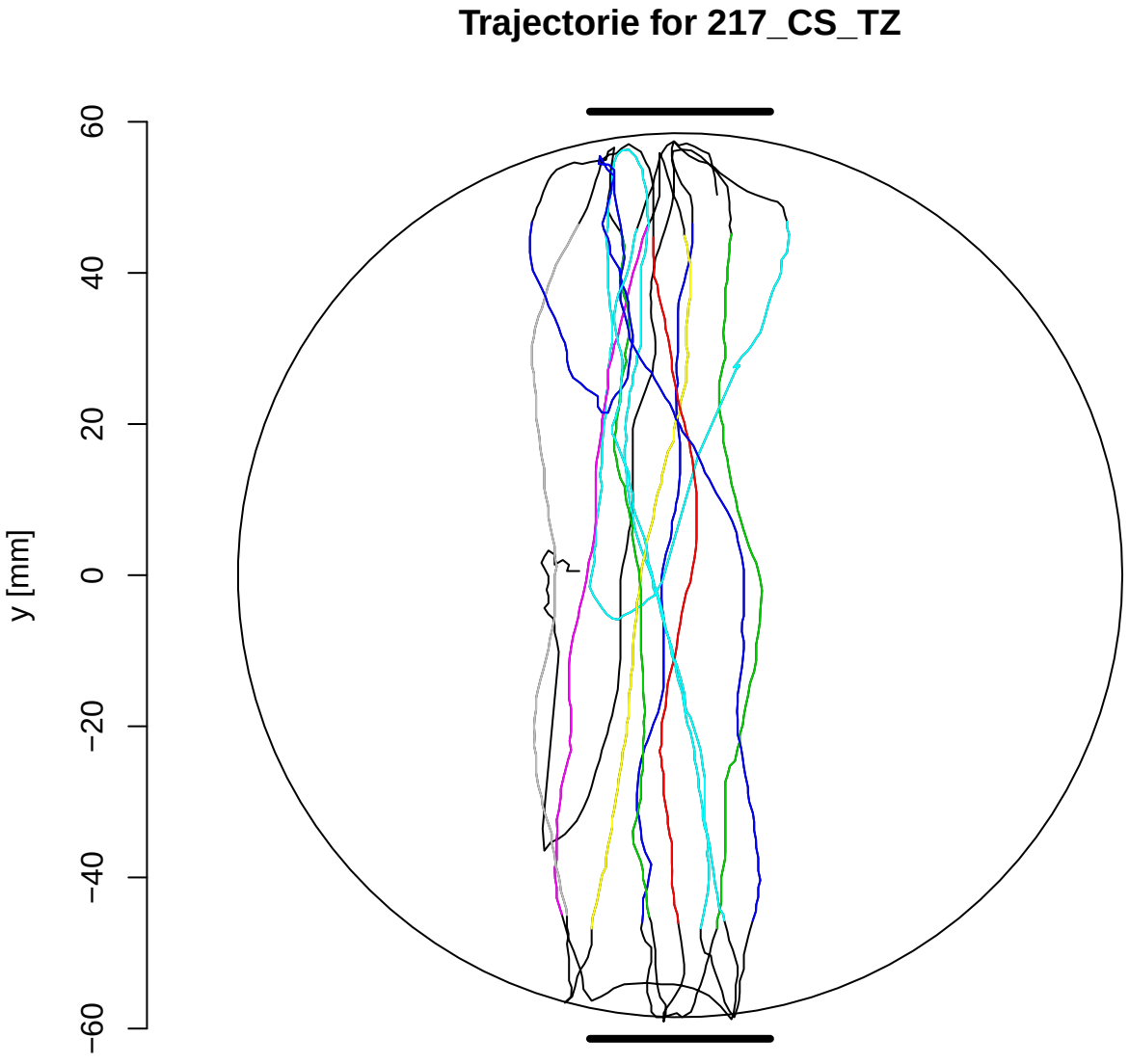

Trajectorie for 212_CS_TP
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 213_CS_TZ
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 214_CS_HS
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 215_CS_BvS
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 216_CS_JC
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 217_CS_TZ
y [mm]
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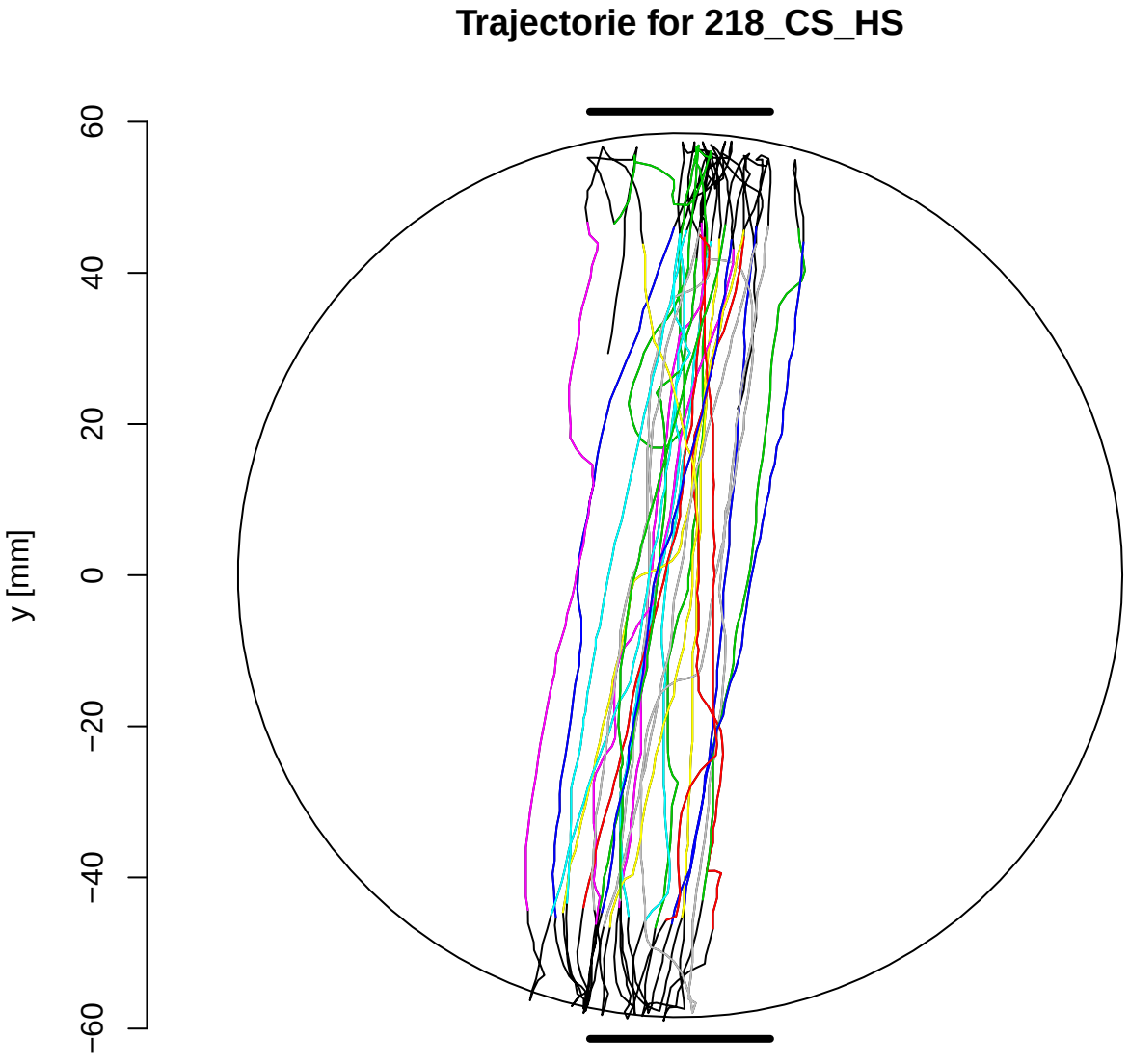
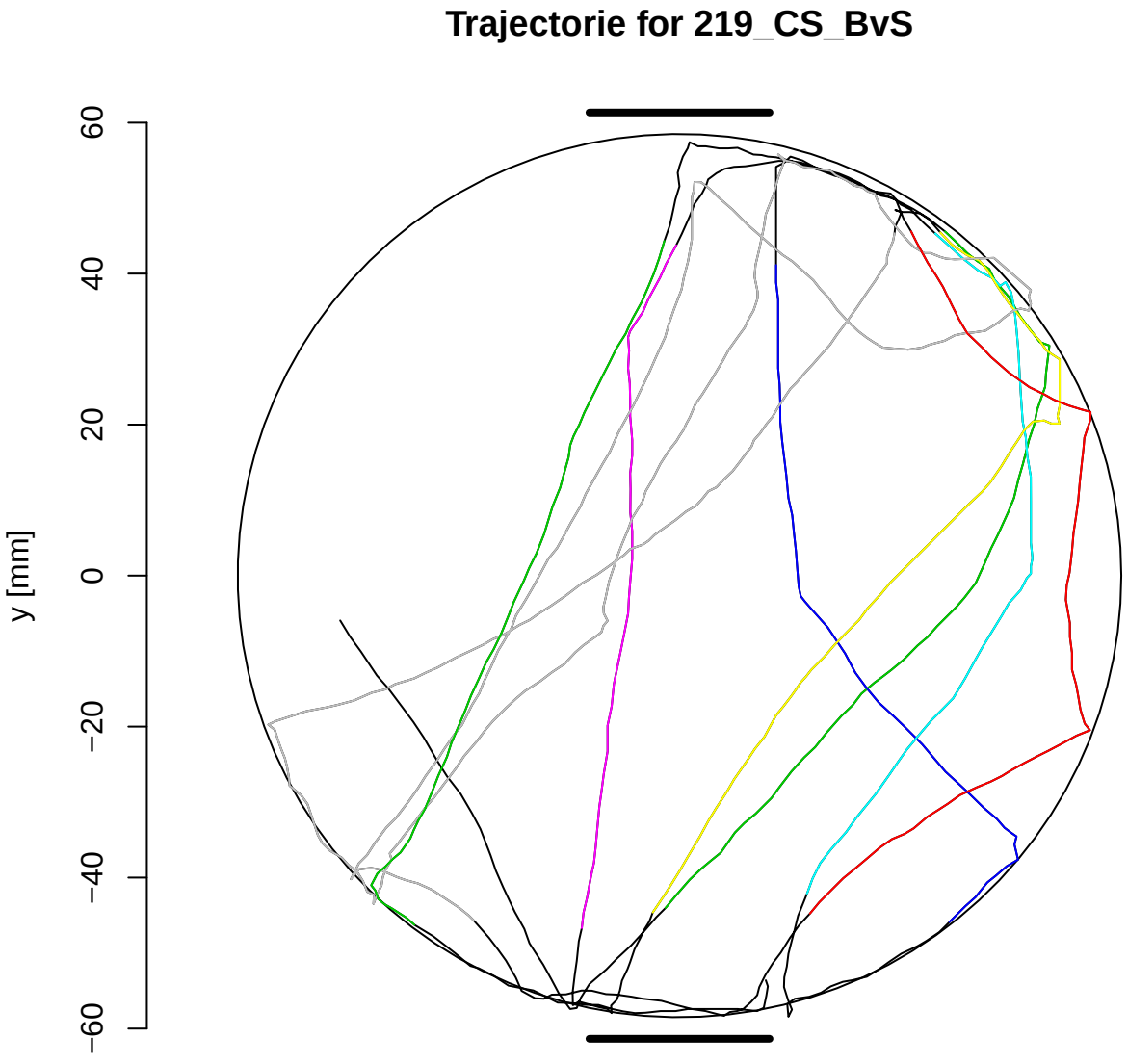
40
20
0
−20
−40
−60


Trajectorie for 218_CS_HS
y [mm]
60
40
20
0
−20
−40
−60


Trajectorie for 219_CS_BvS
y [mm]
60
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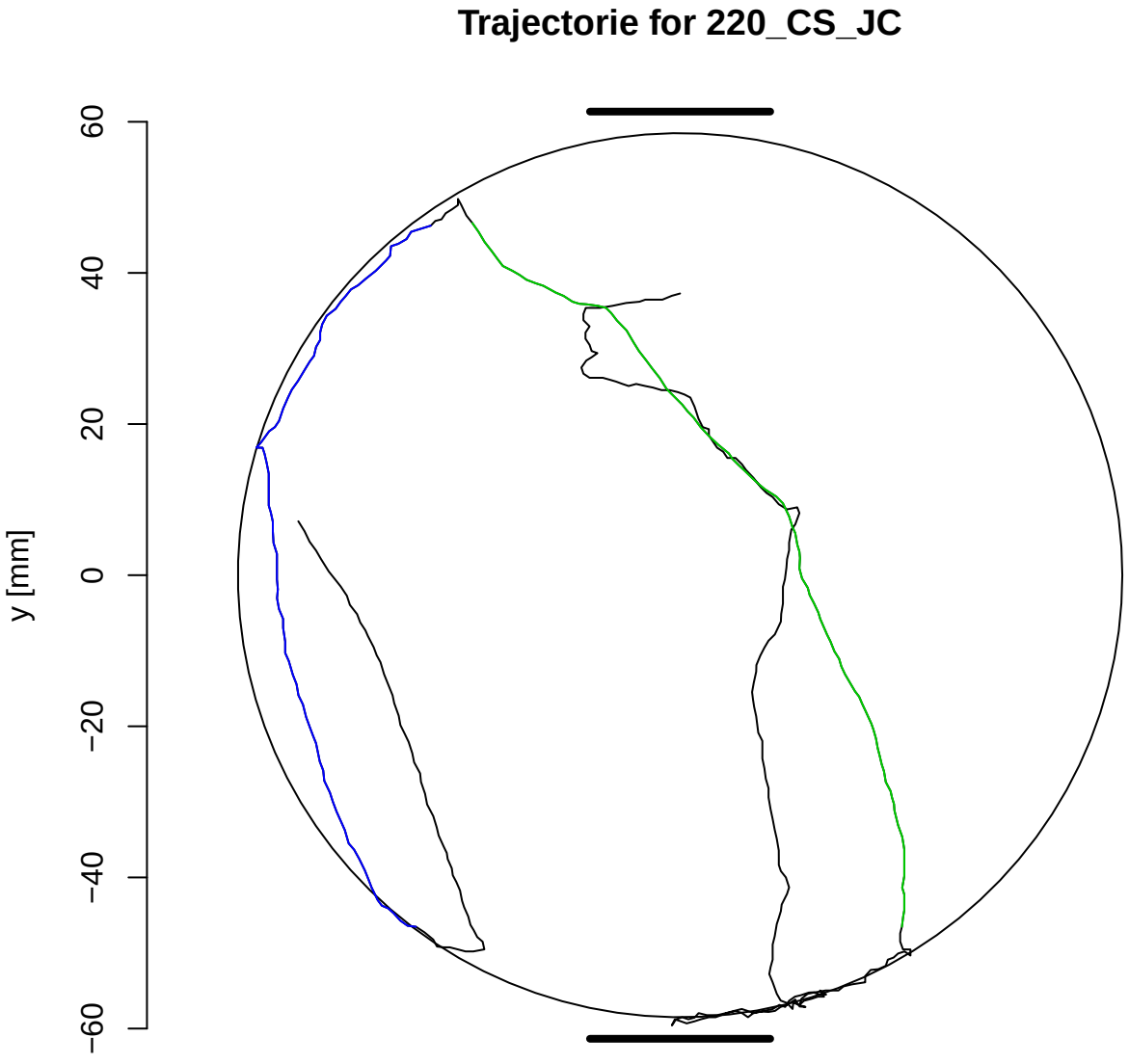
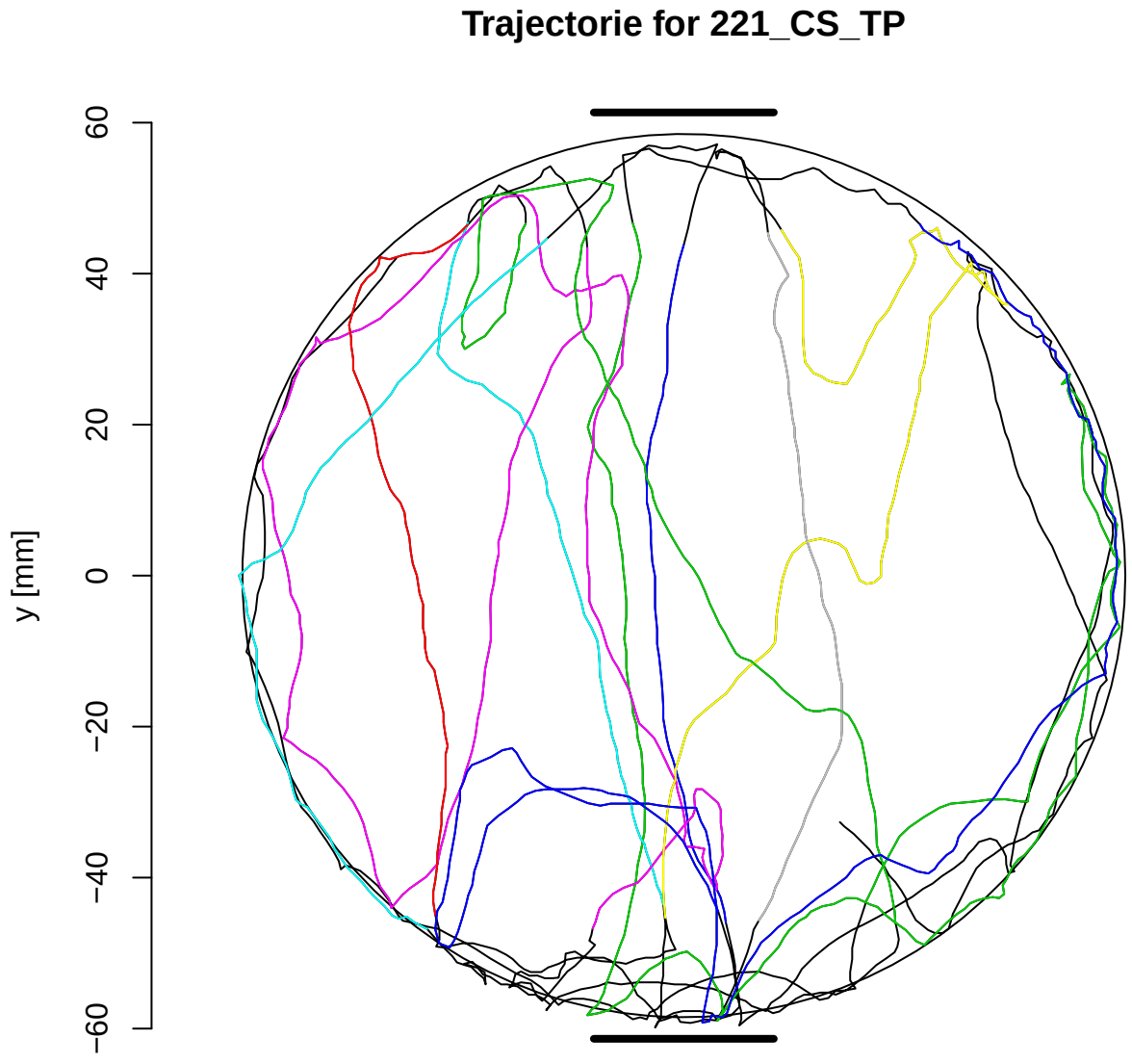
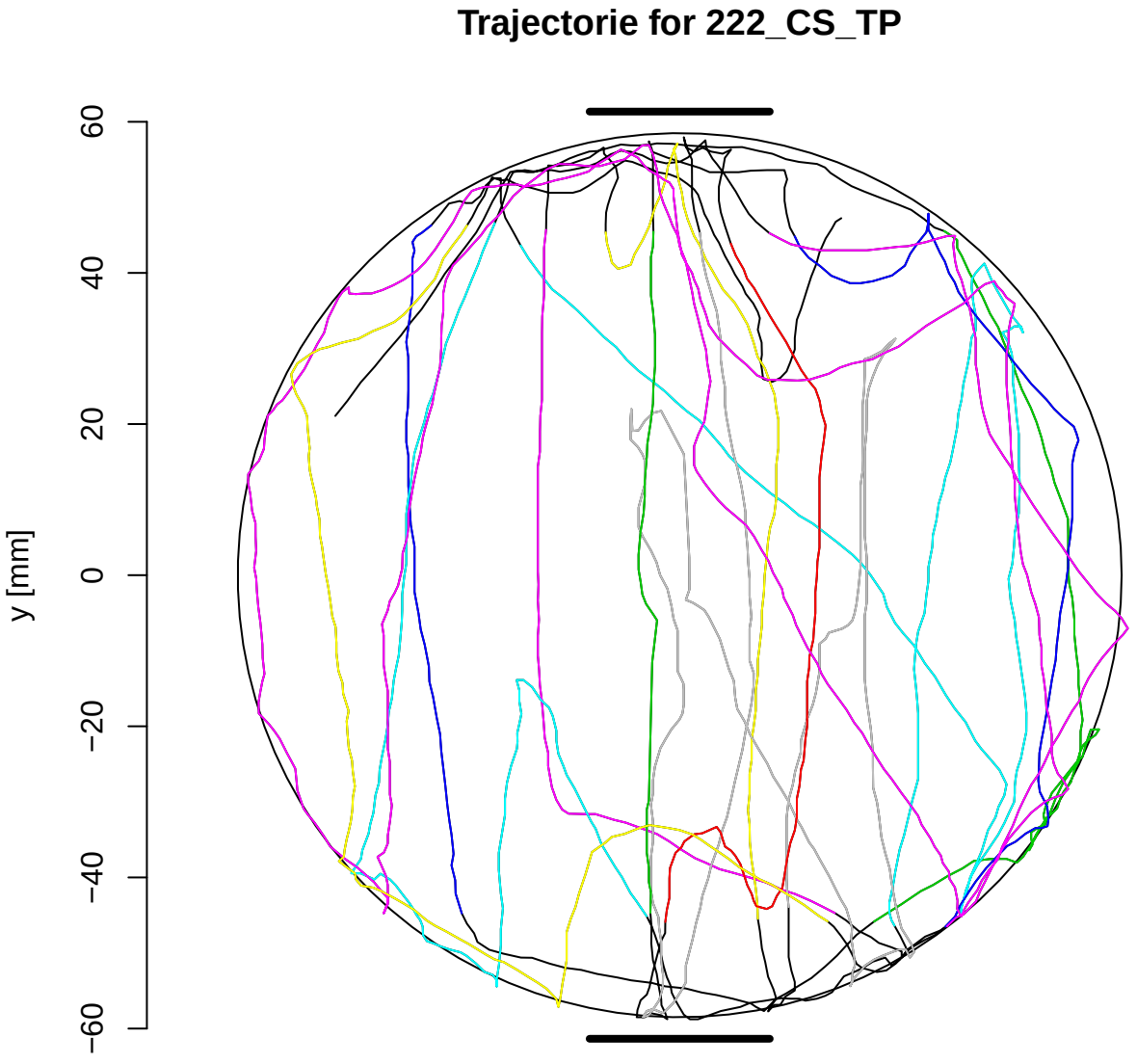
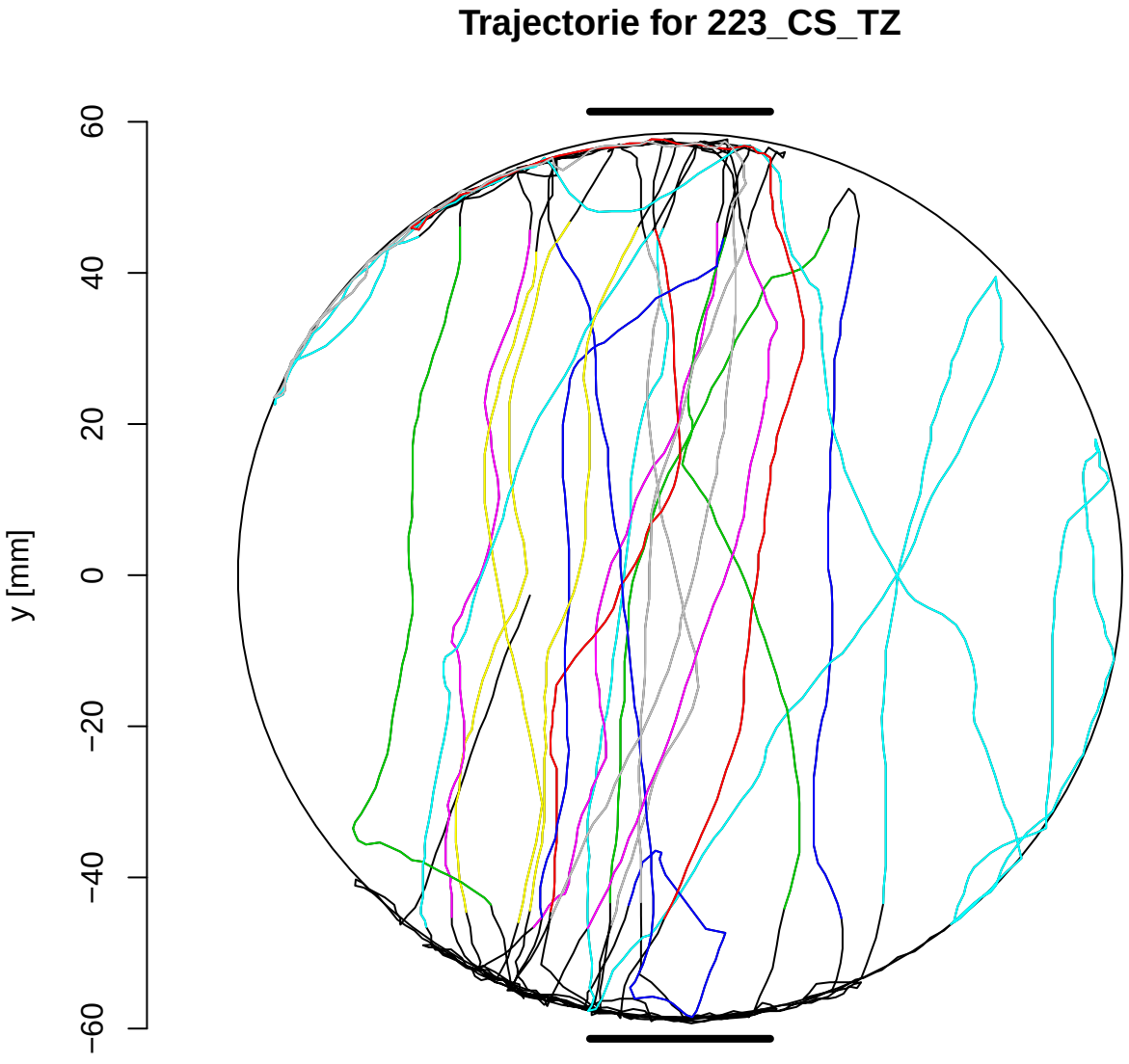
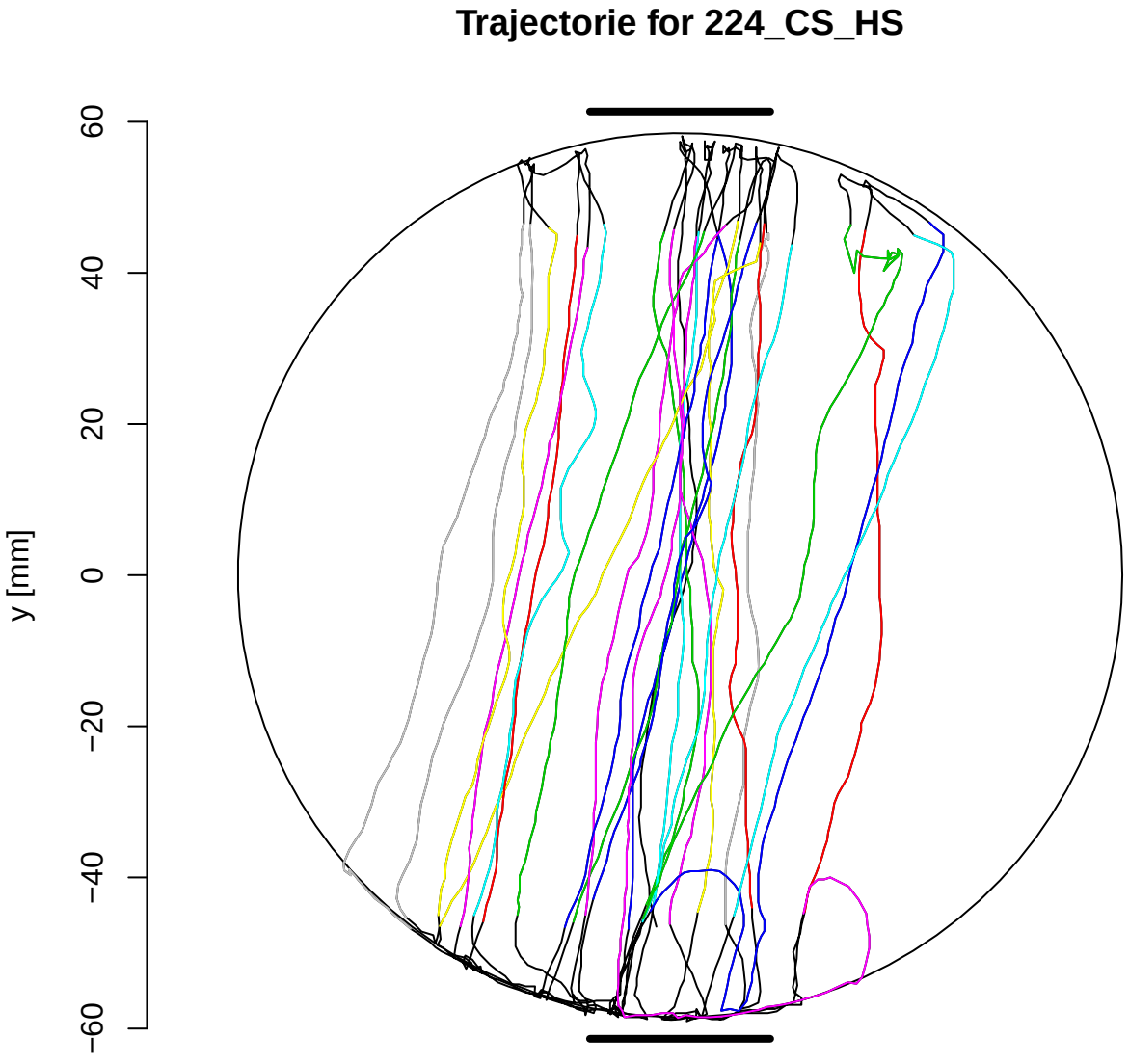
20
0
−20
−40
−60

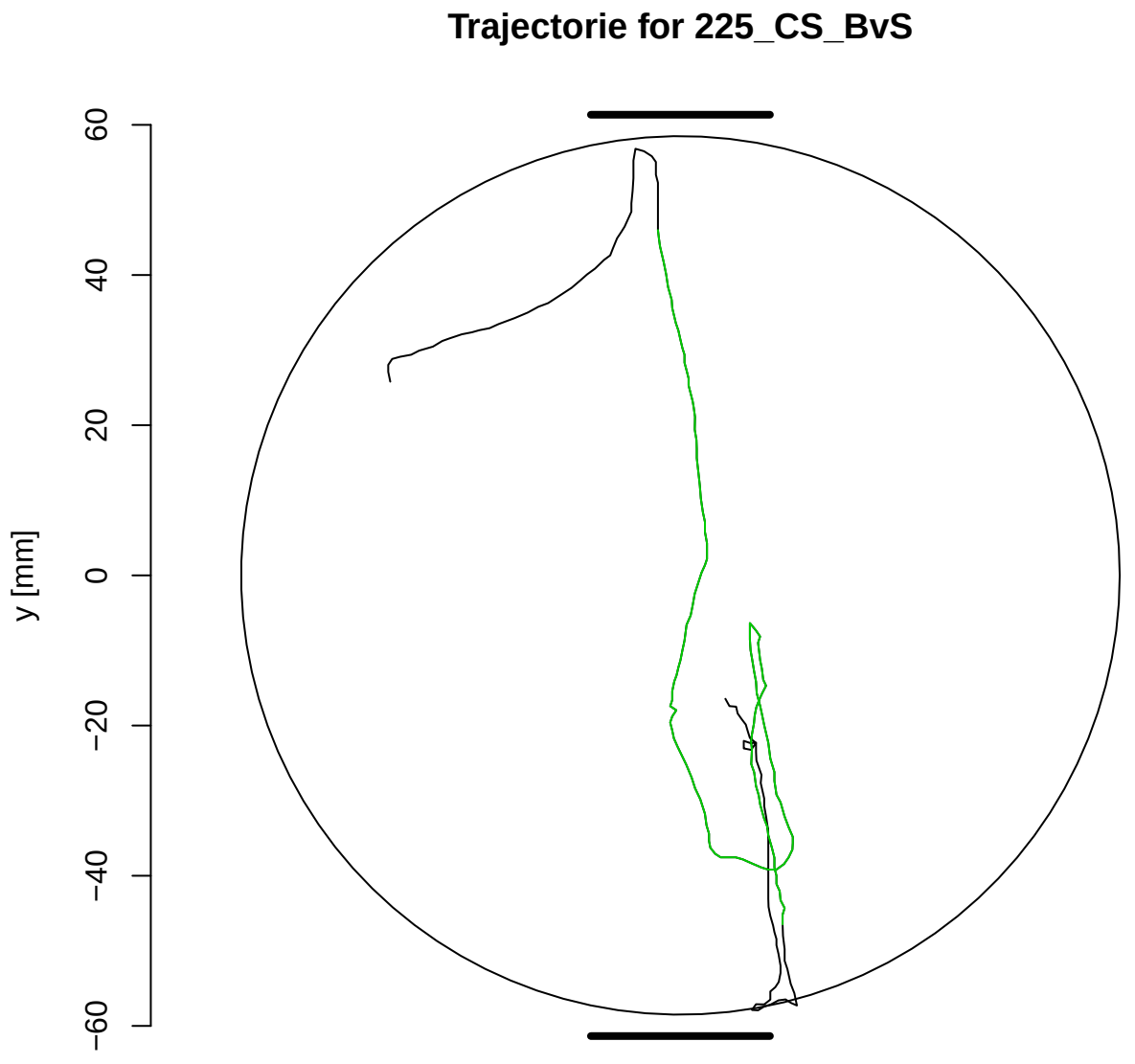

Trajectorie for 220_CS_JC
y [mm]
60
40
20
0
−20
−40
−60

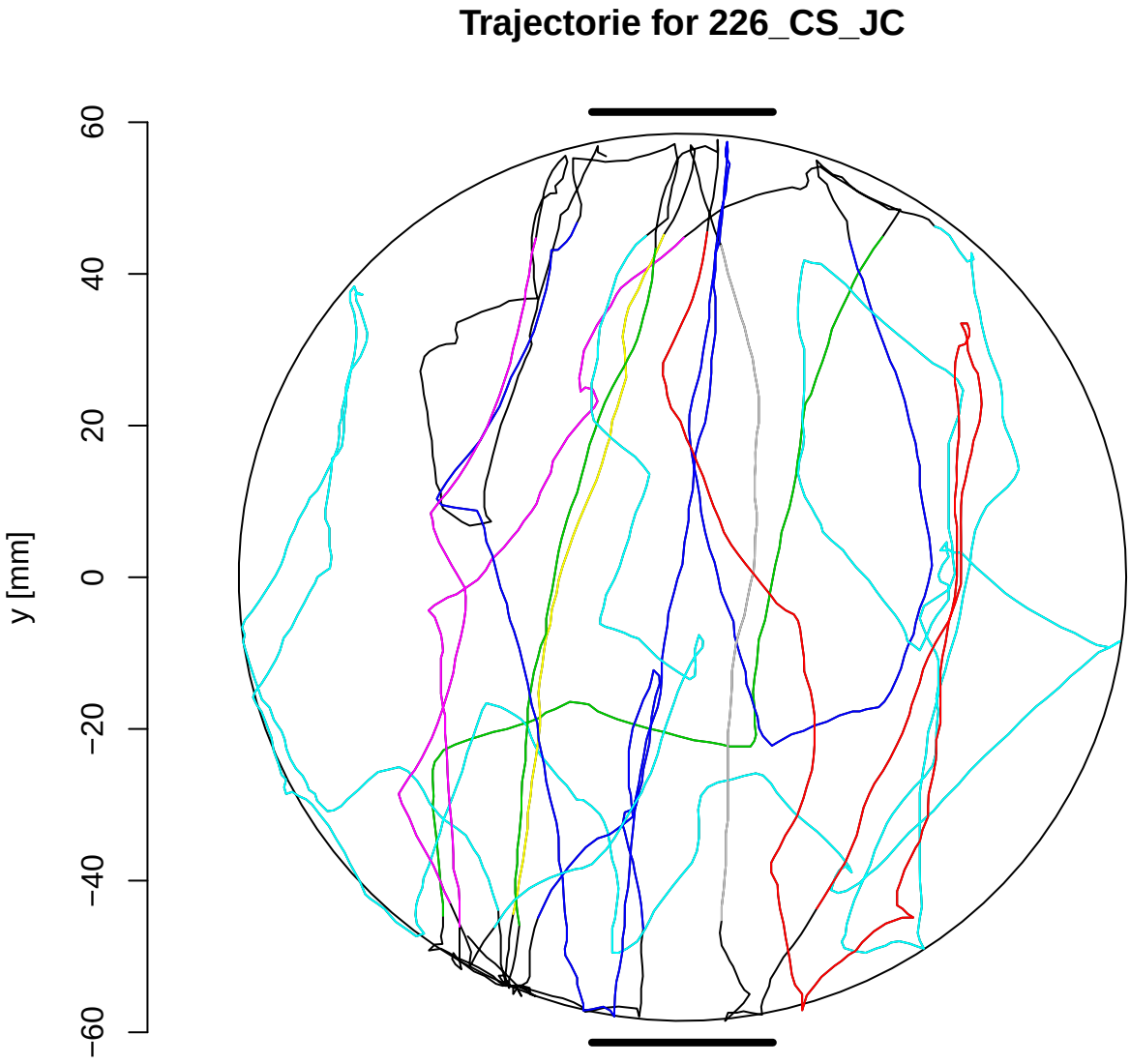

Trajectorie for 221_CS_TP
y [mm]
60
40
20
0
−20
−40
−60

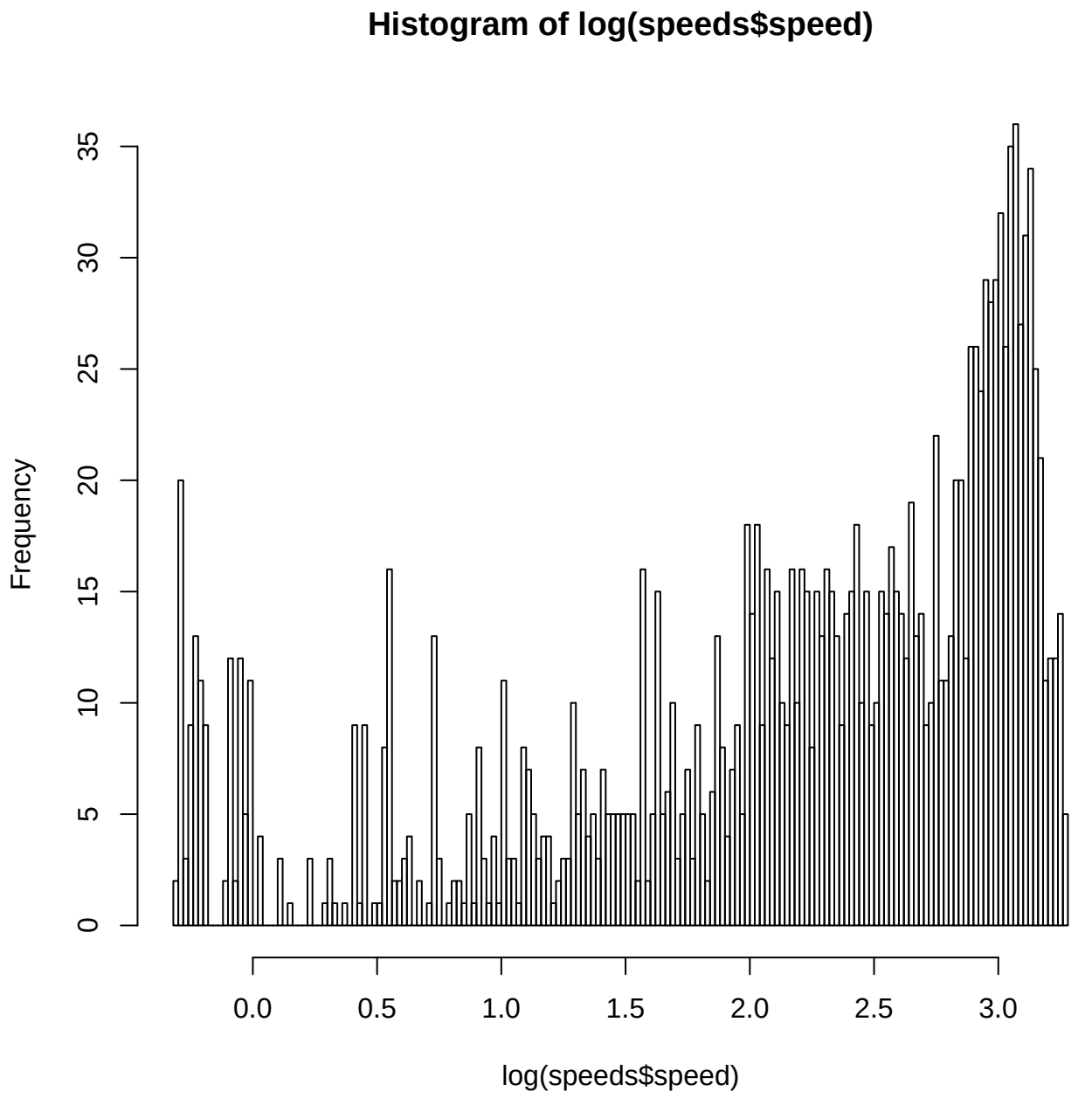

Trajectorie for 222_CS_TP
y [mm]
60
40
20
0
−20
−40
−60

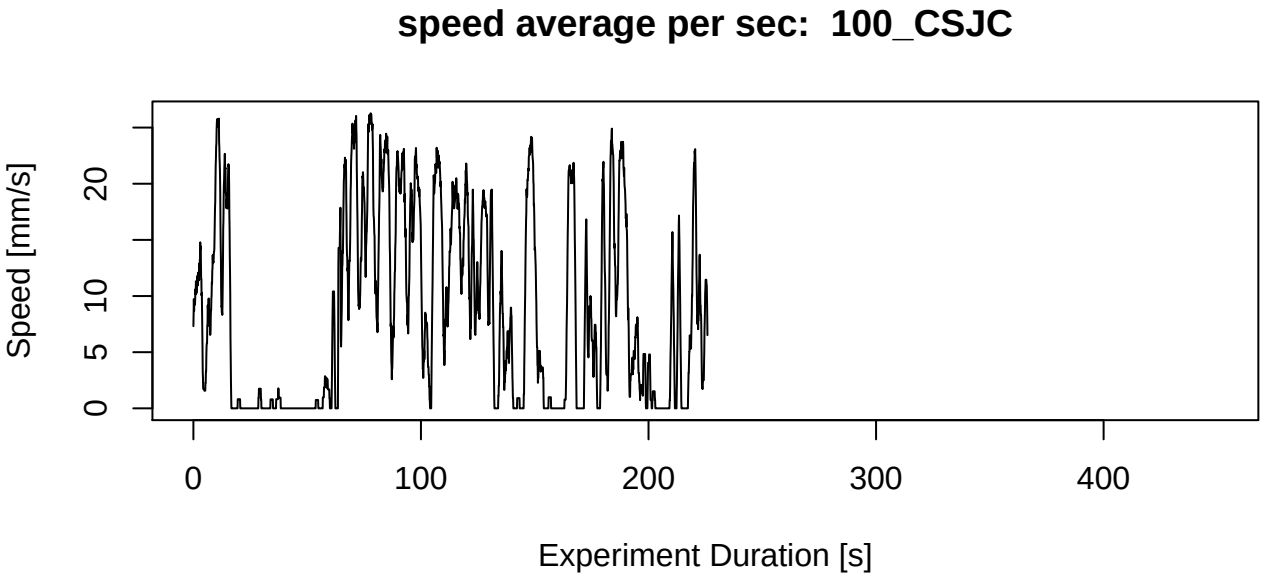

Trajectorie for 223_CS_TZ
y [mm]
60
40
20
0
−20
−40
−60

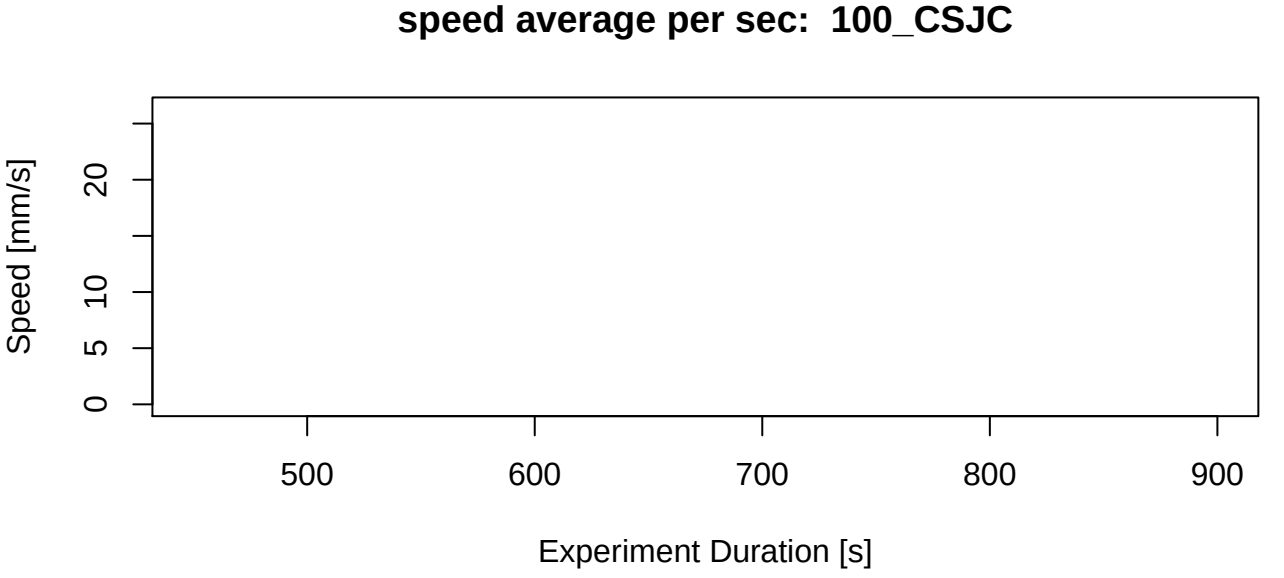

Trajectorie for 224_CS_HS
y [mm]
60
40
20
0
−20
−40
−60

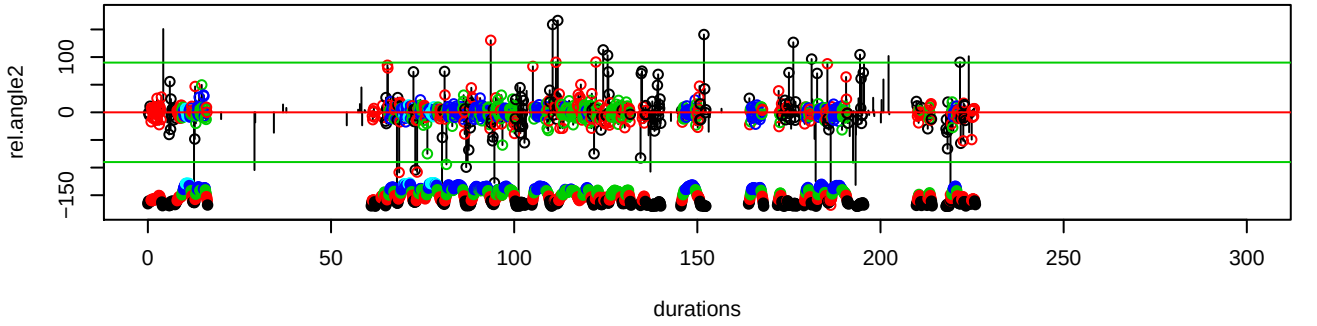

Trajectorie for 225_CS_BvS
y [mm]
60
40
20
0
−20
−40
−60

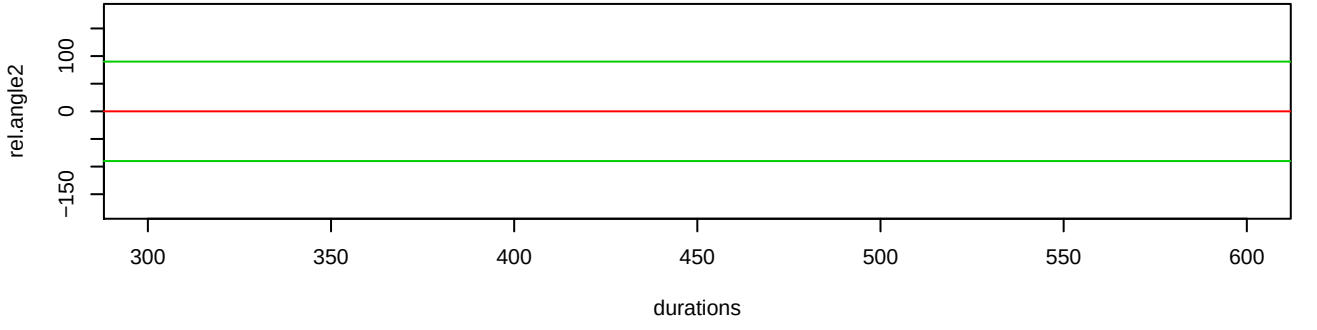

Trajectorie for 226_CS_JC
y [mm]
60
40
20
0
−20
−40
−60

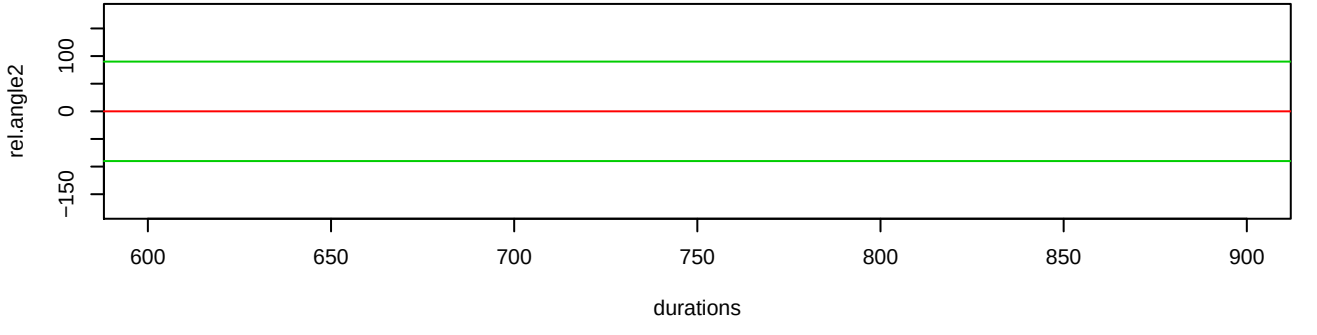

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
35
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

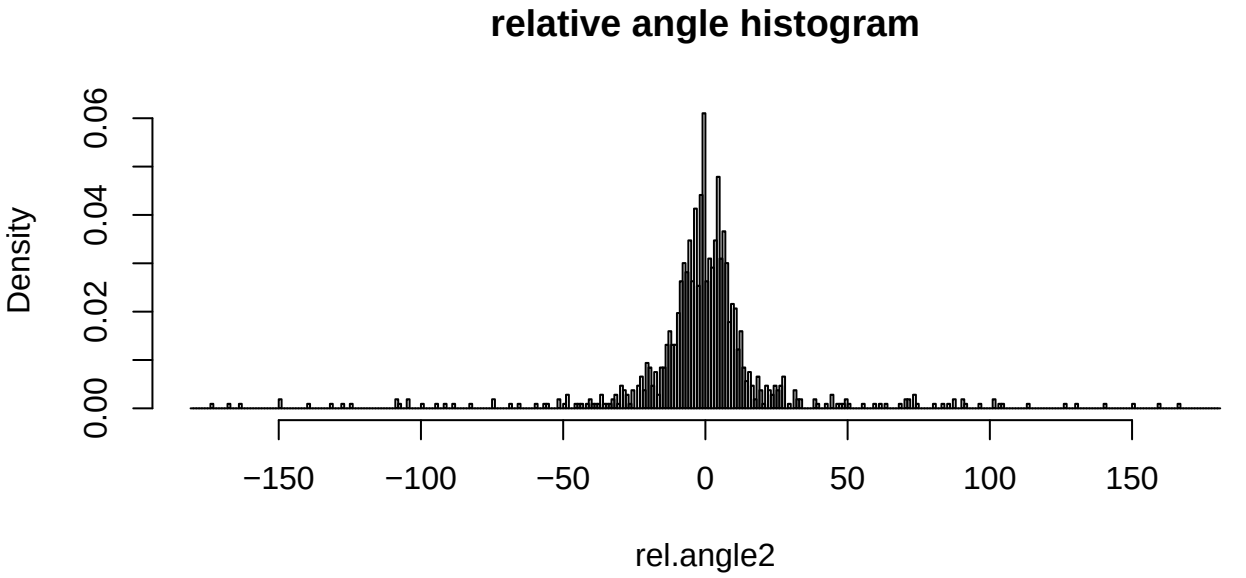

speed average per sec: 100_CSJC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

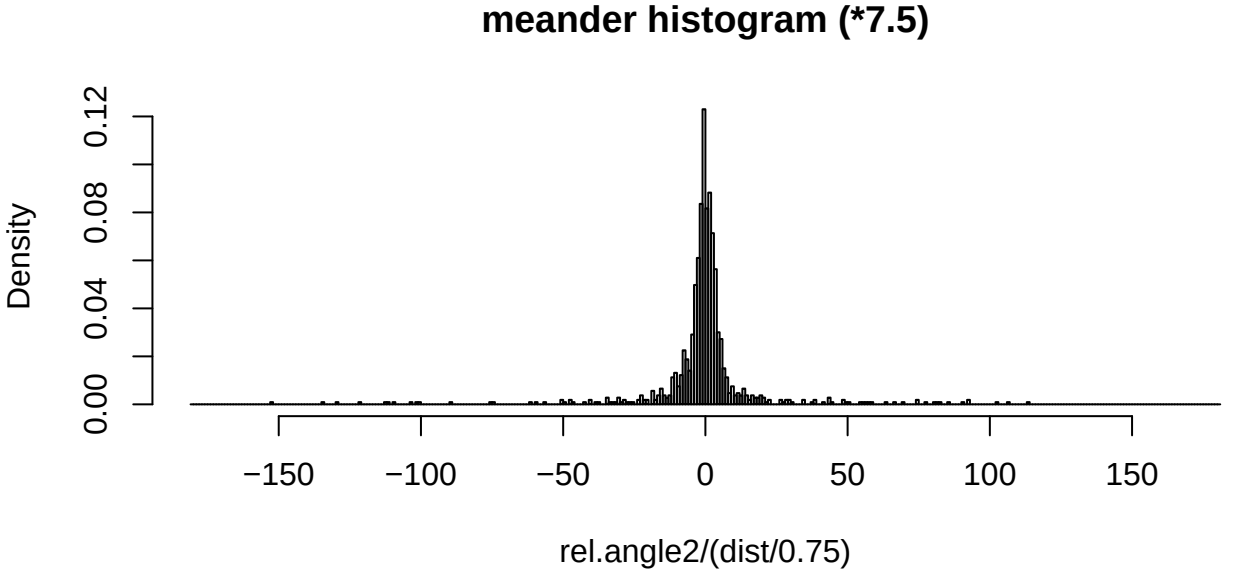

speed average per sec: 100_CSJC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

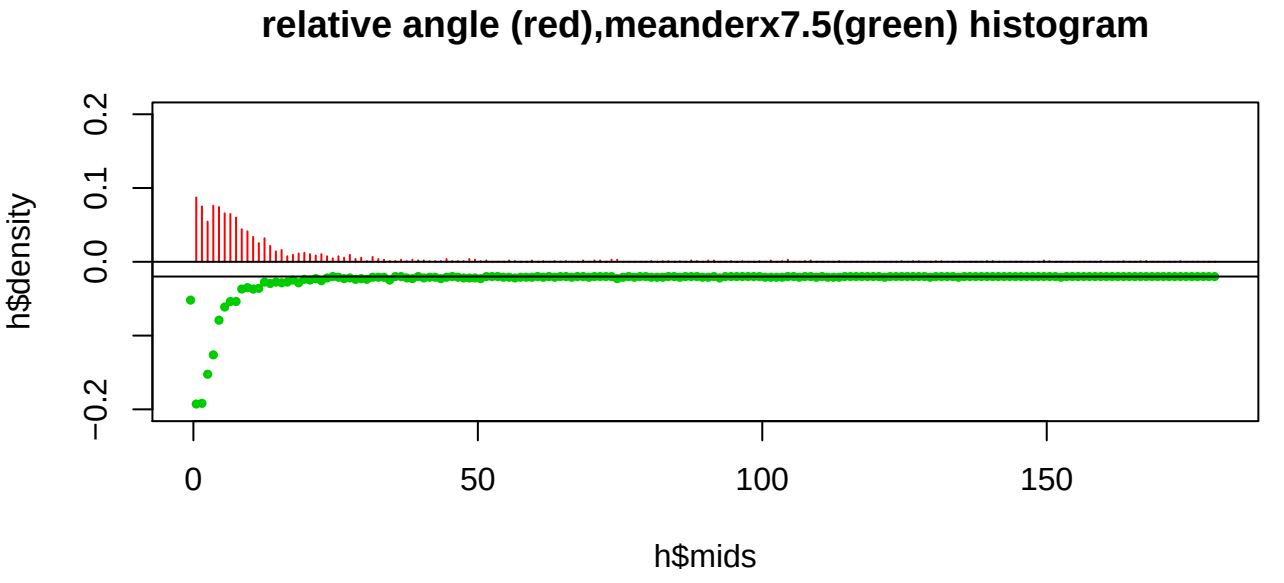

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

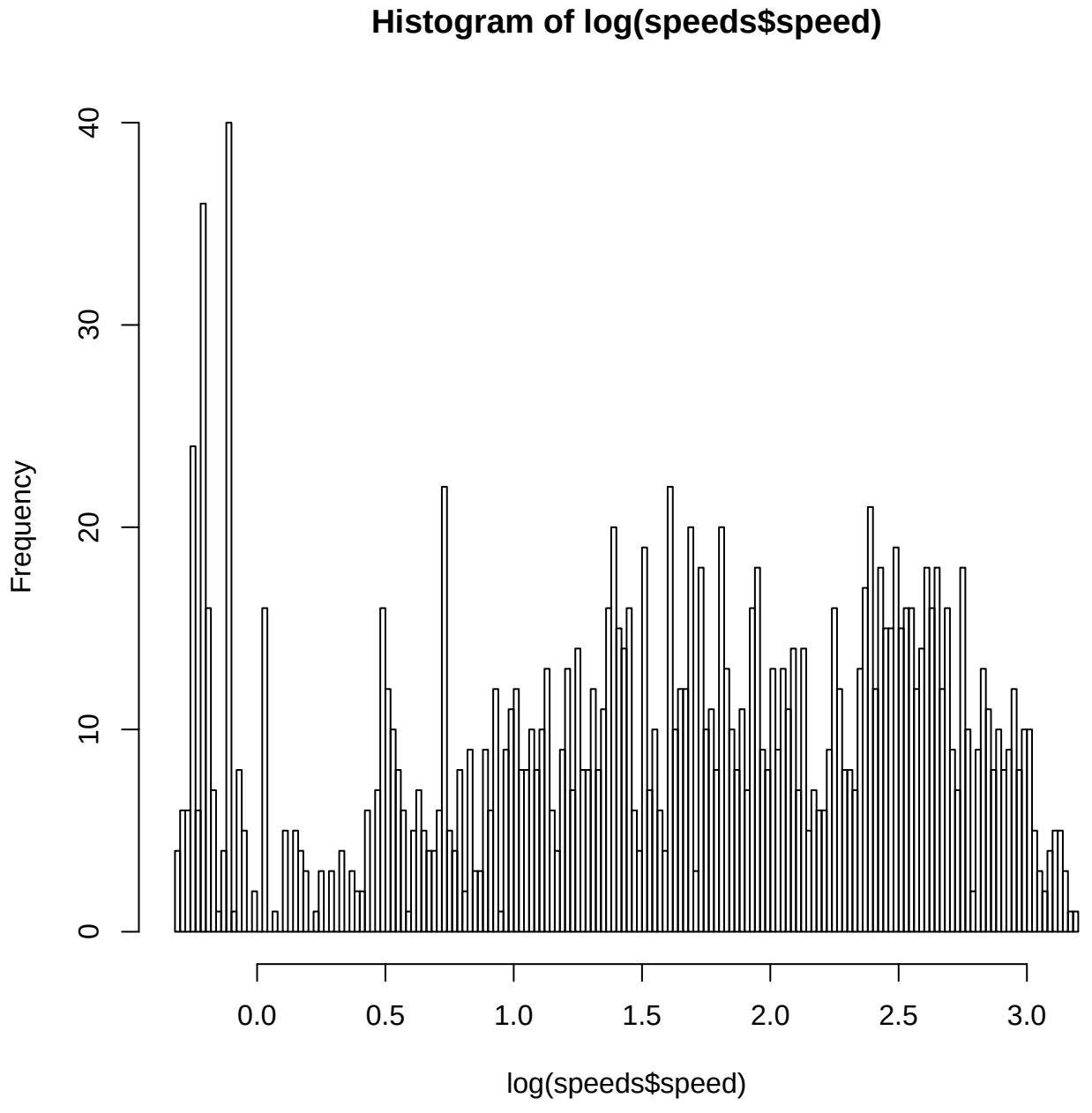

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

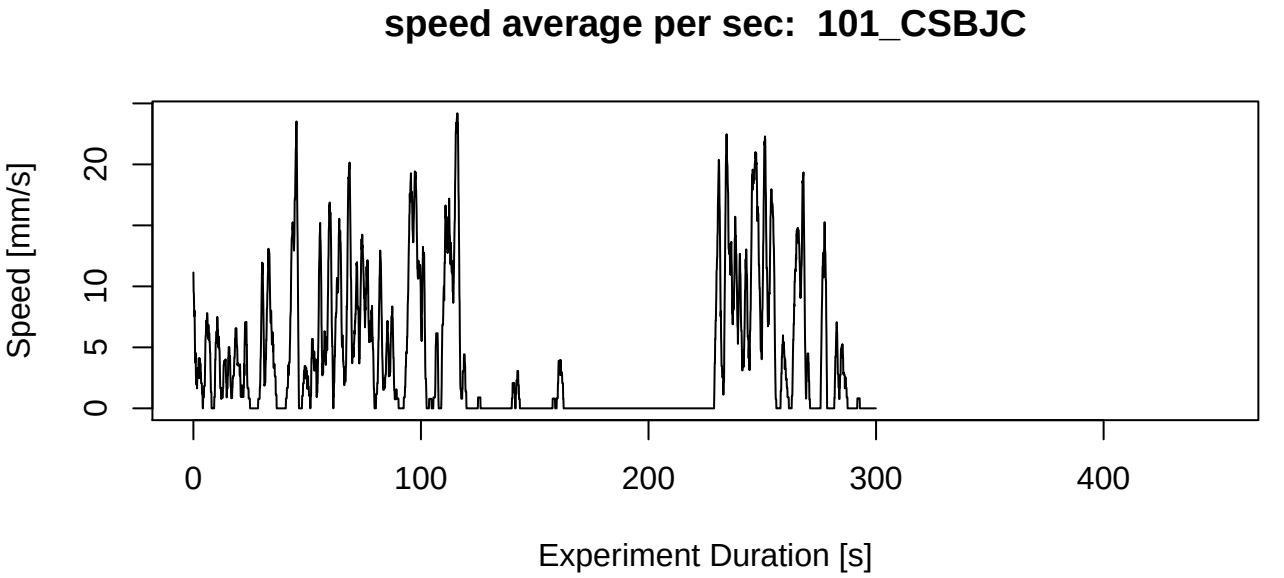

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

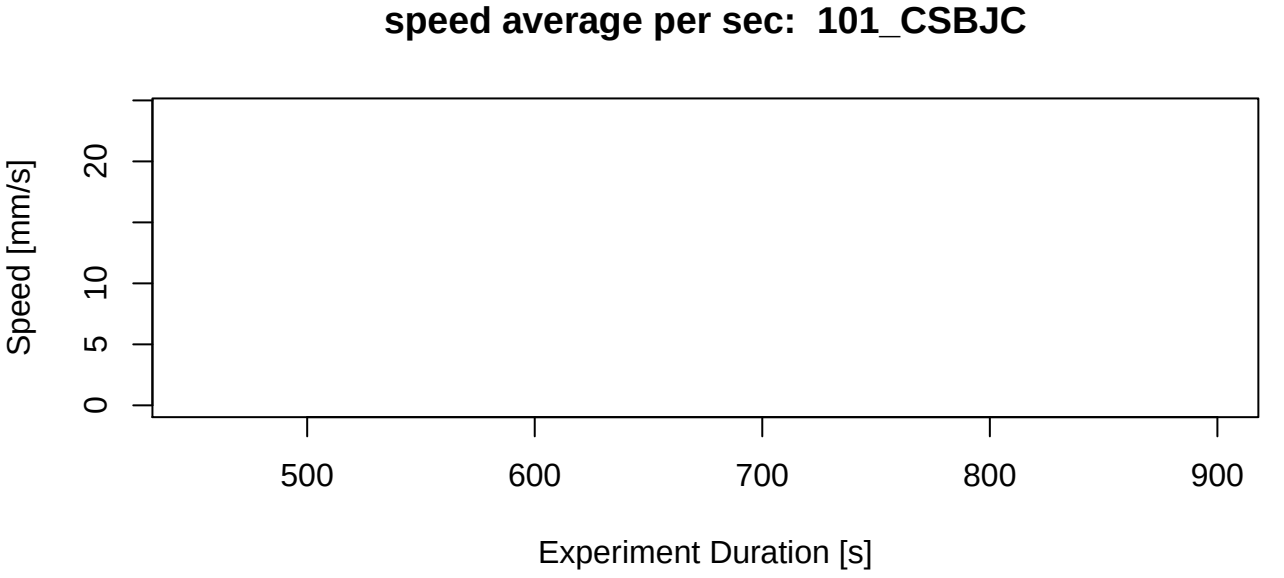

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

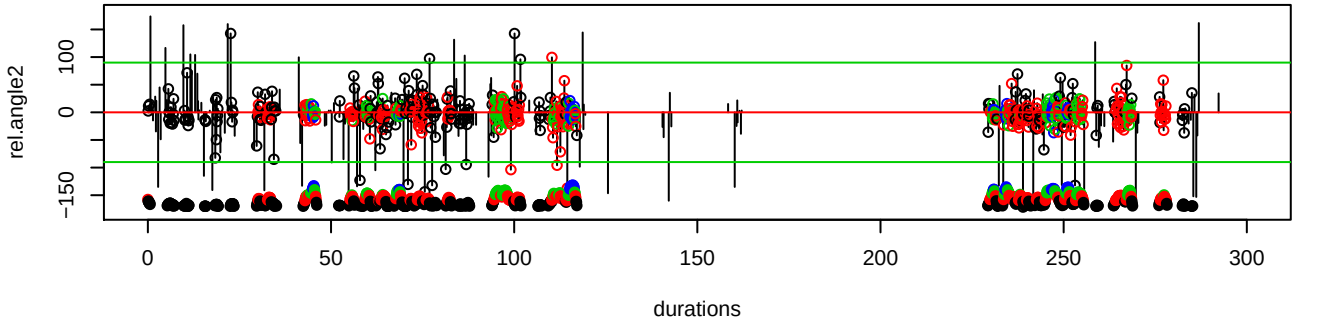

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

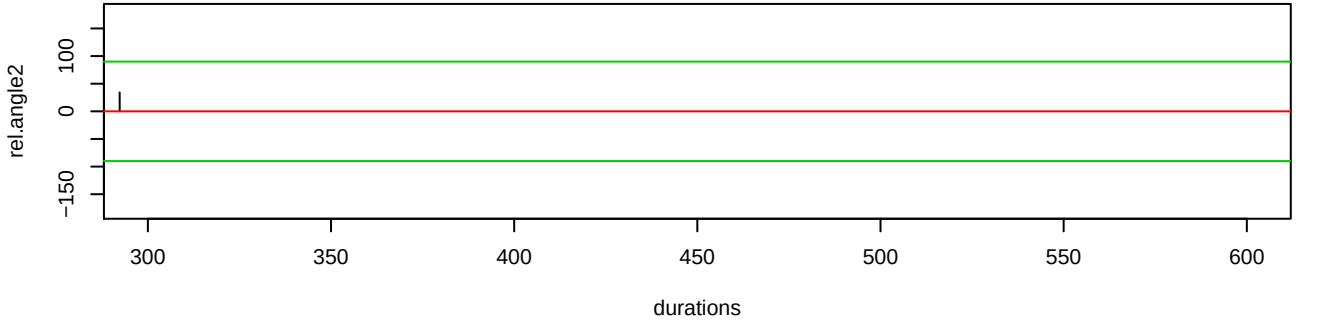

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

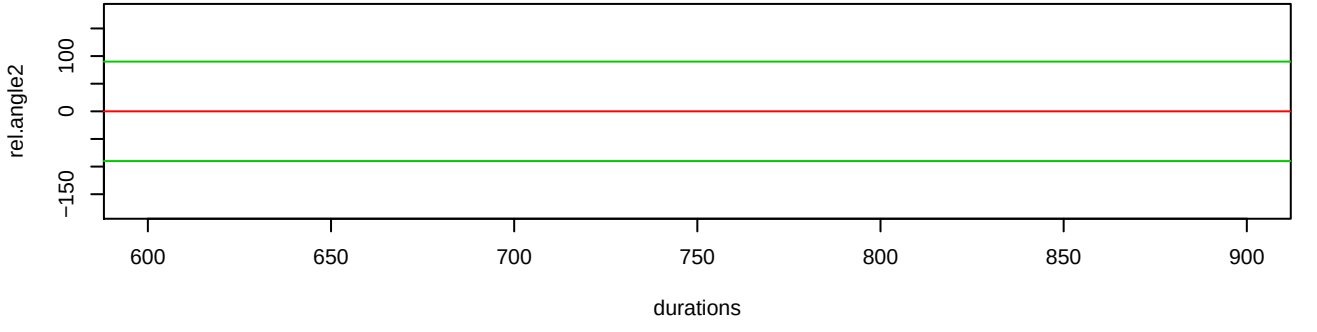

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

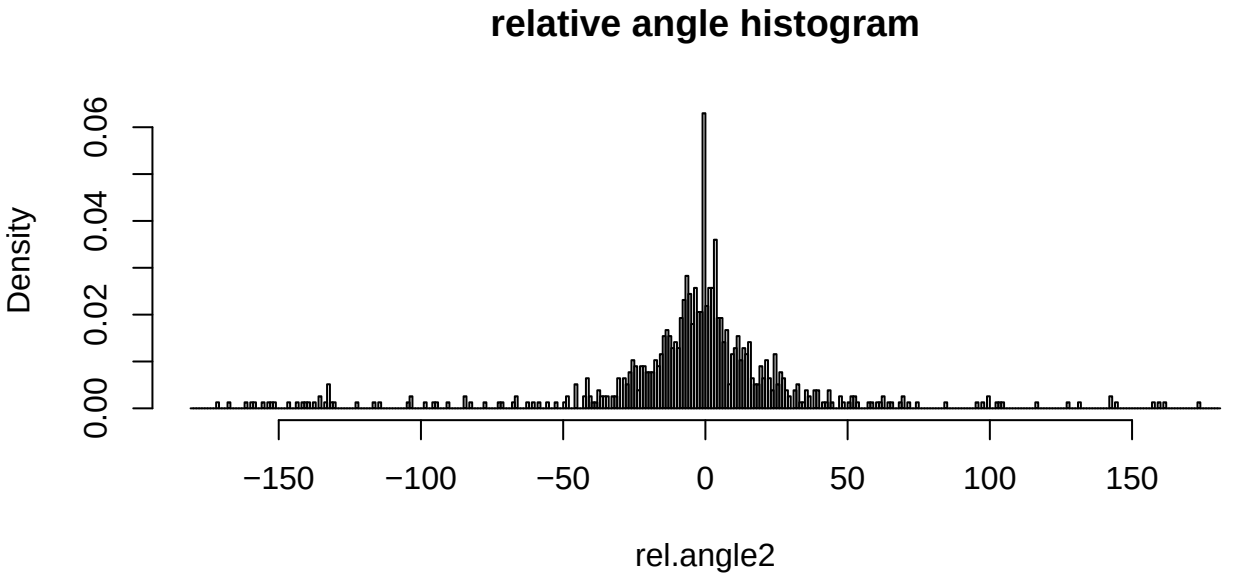

speed average per sec: 101_CSBJC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

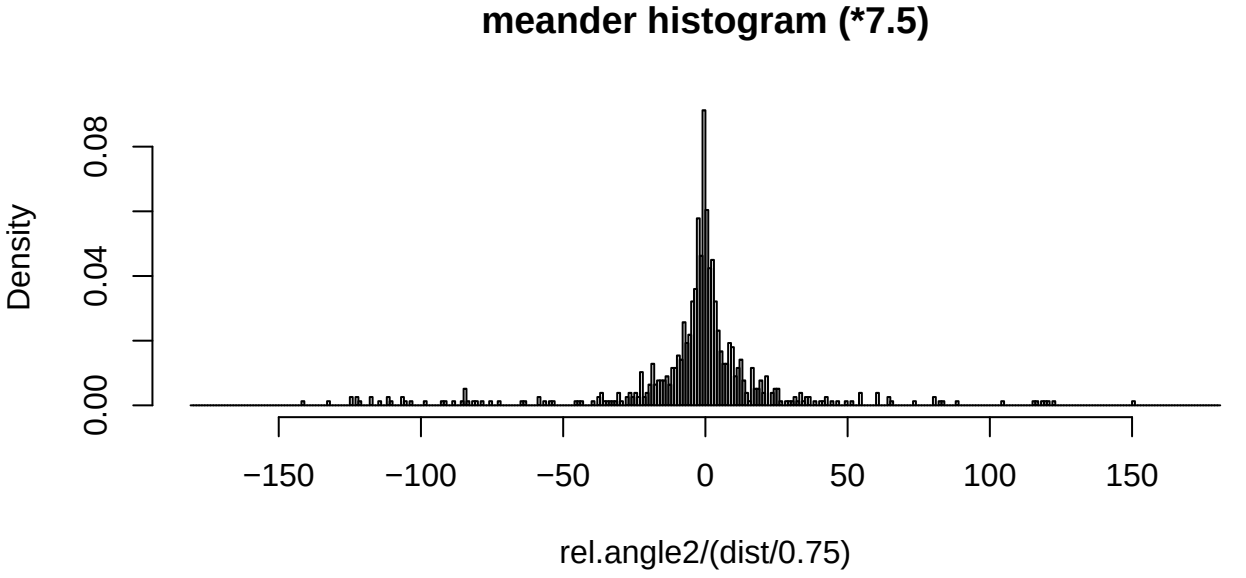

speed average per sec: 101_CSBJC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

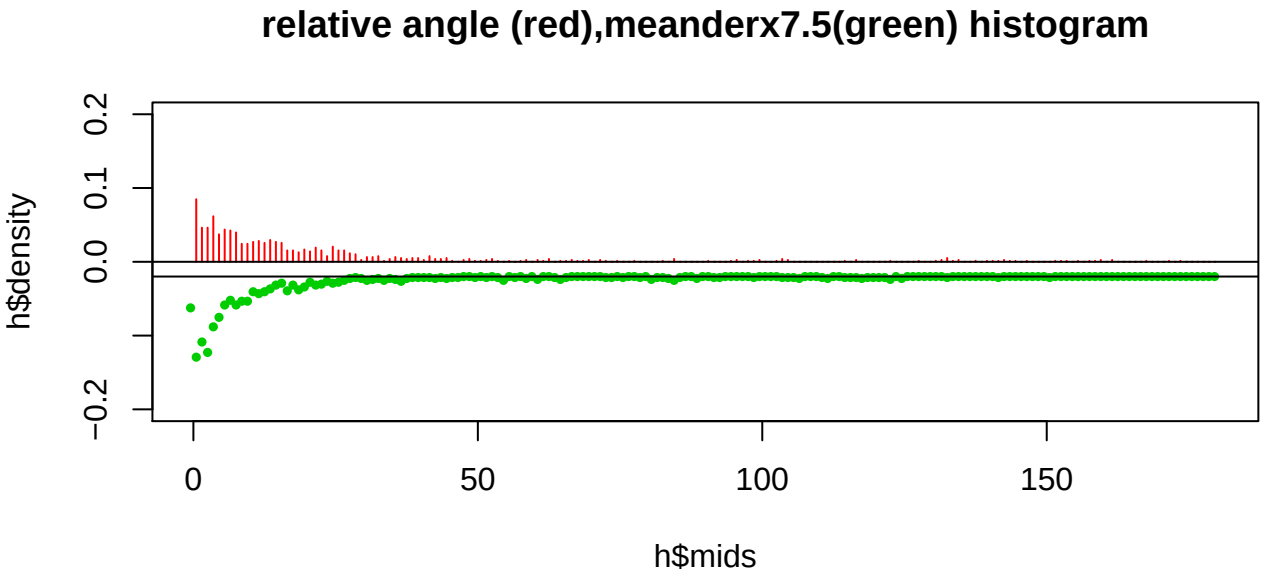

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

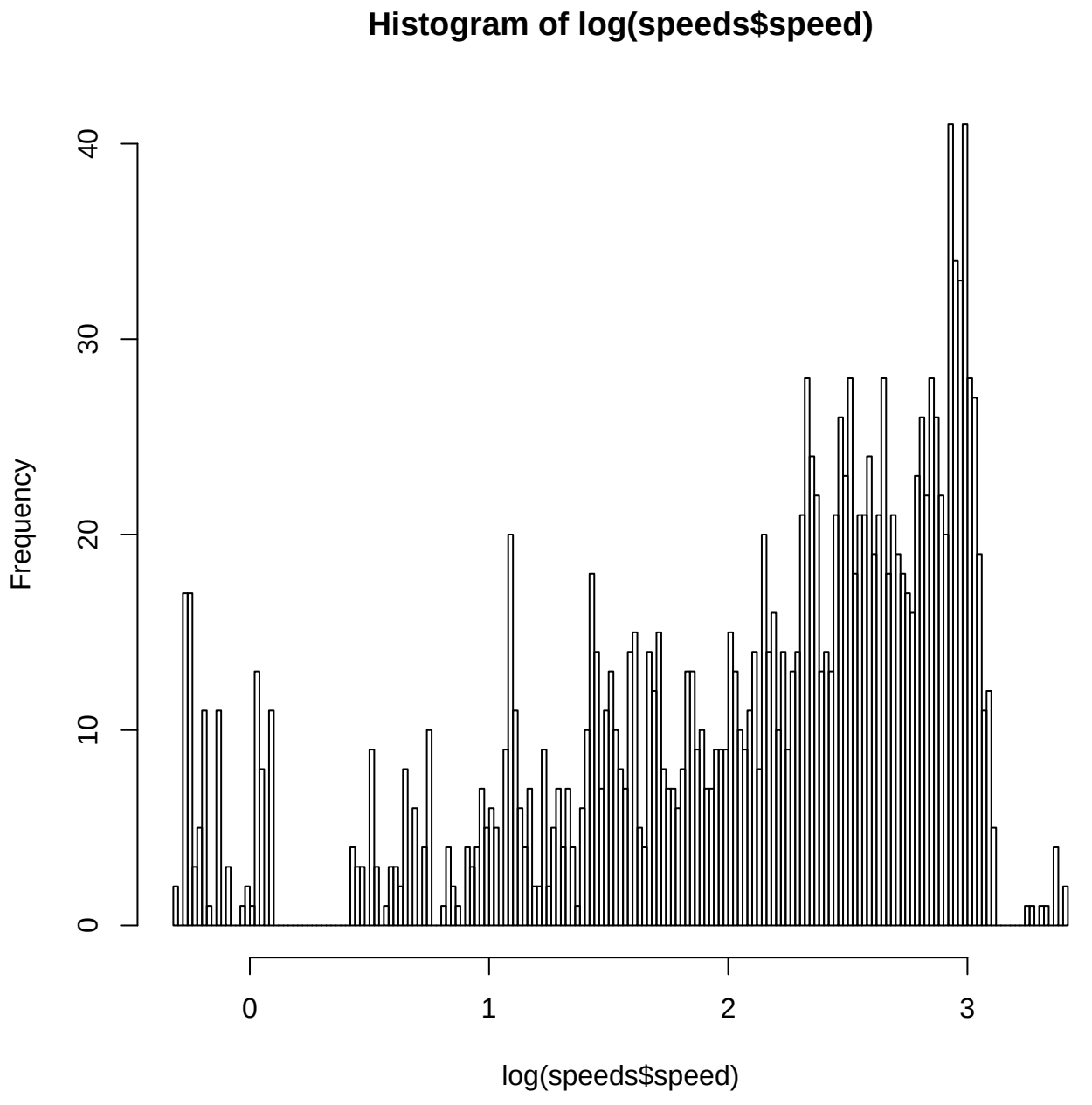

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

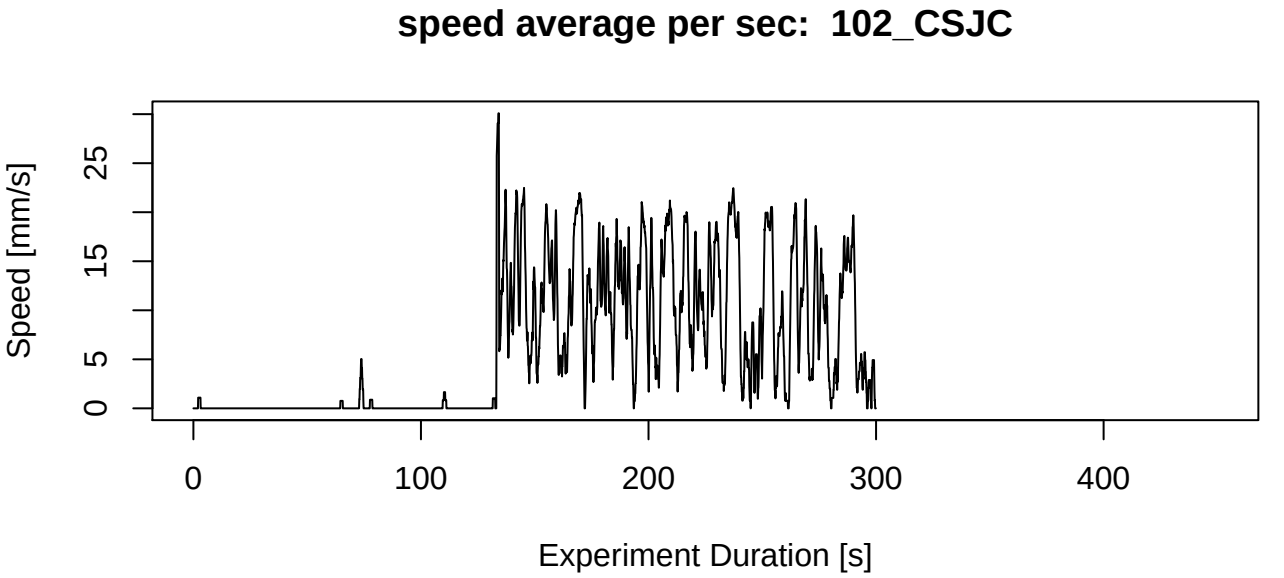

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

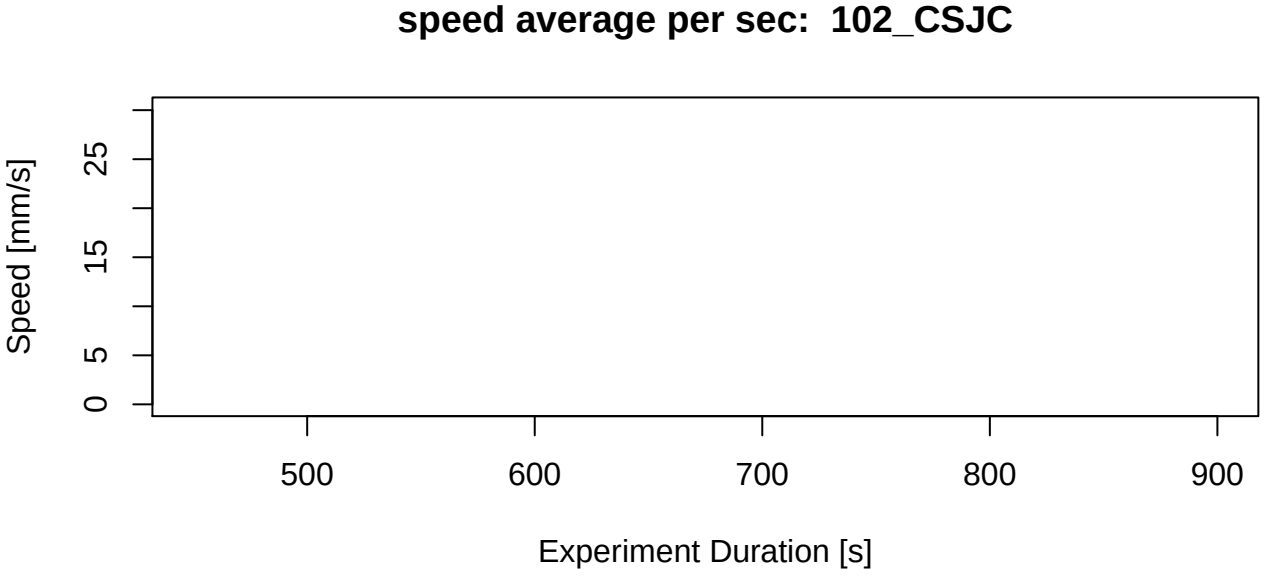

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

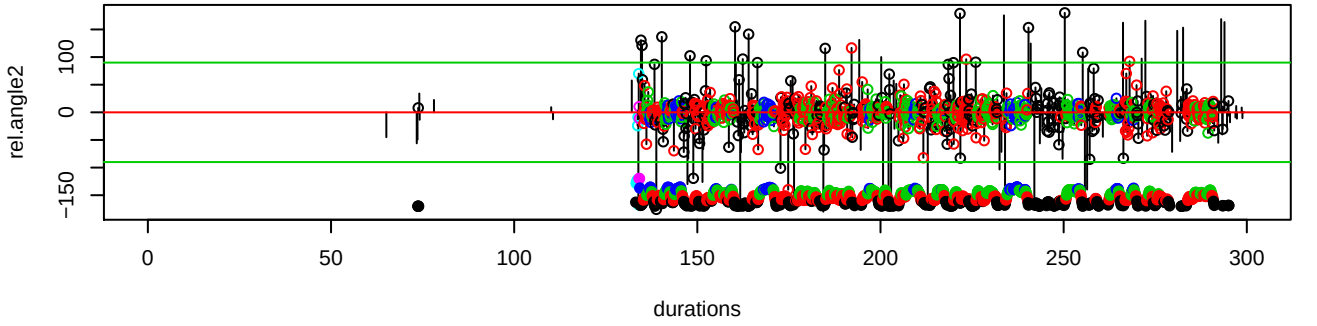

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

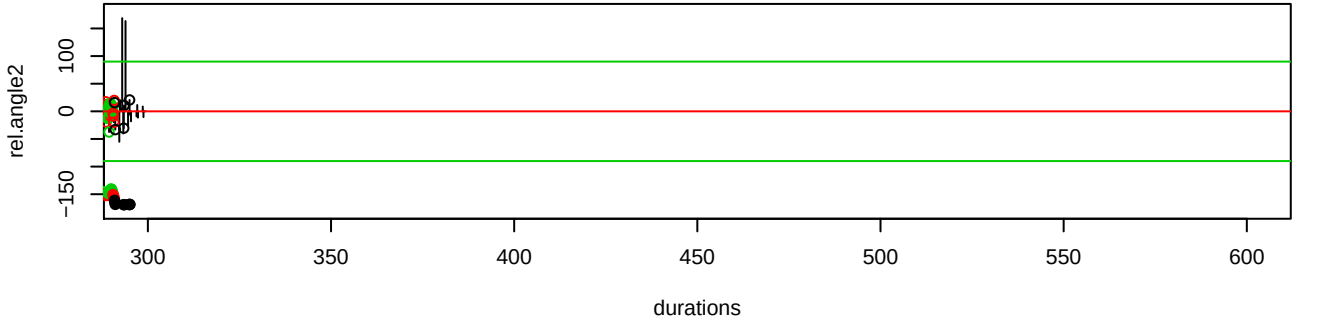

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

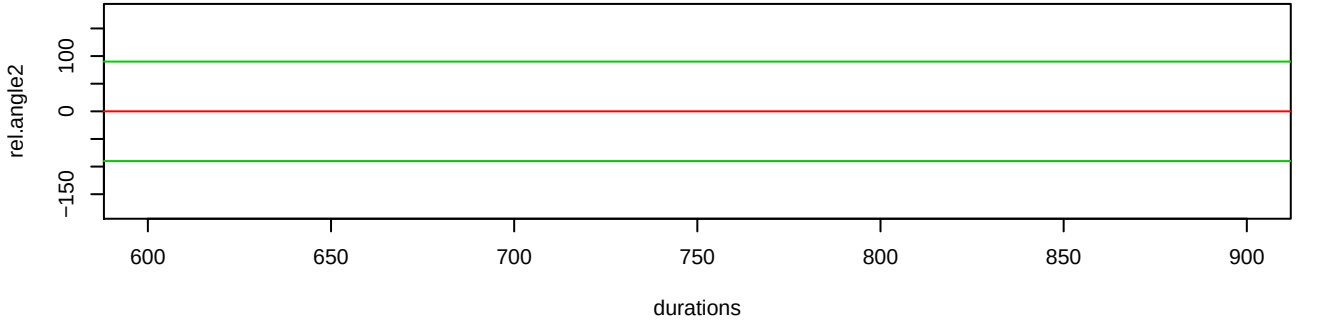

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0
1
2
3
log(speeds$speed)

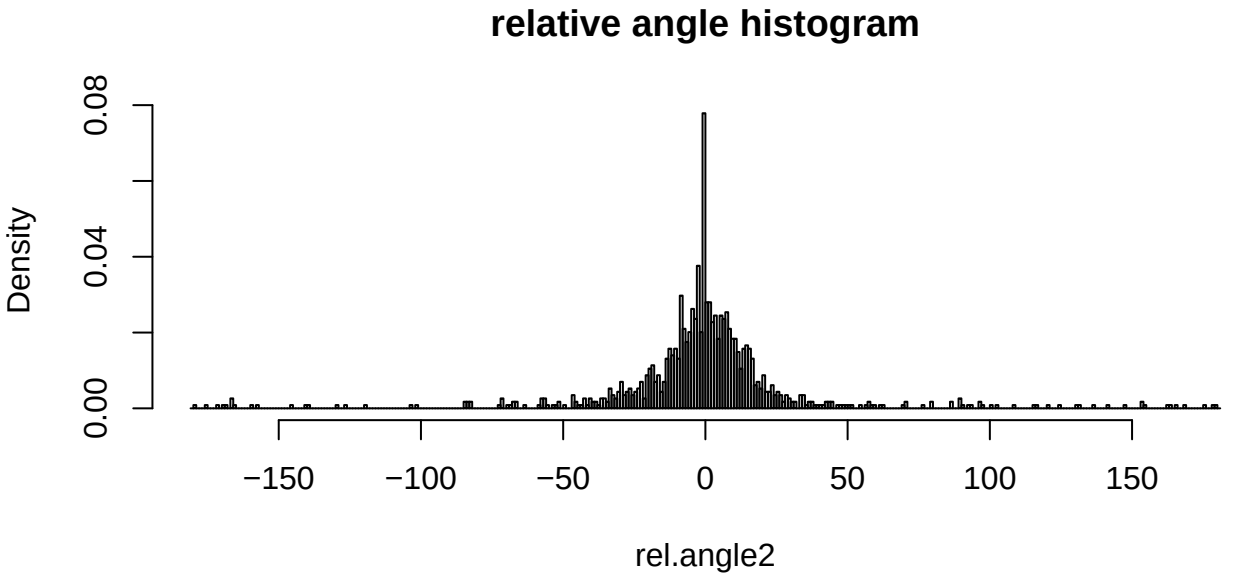

speed average per sec: 102_CSJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

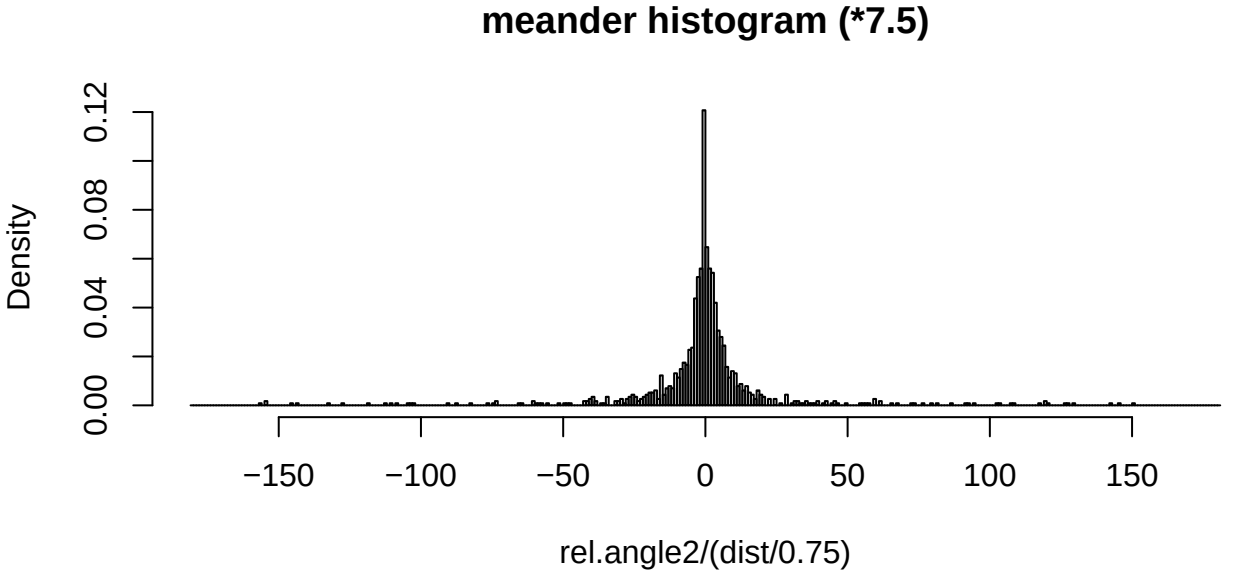

speed average per sec: 102_CSJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

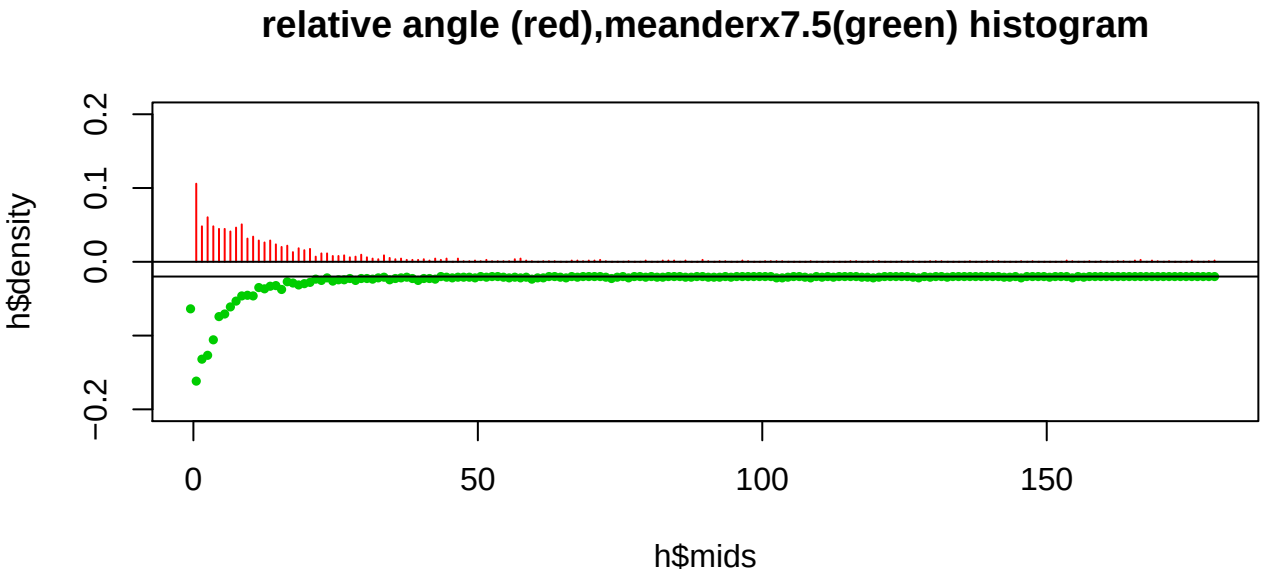

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

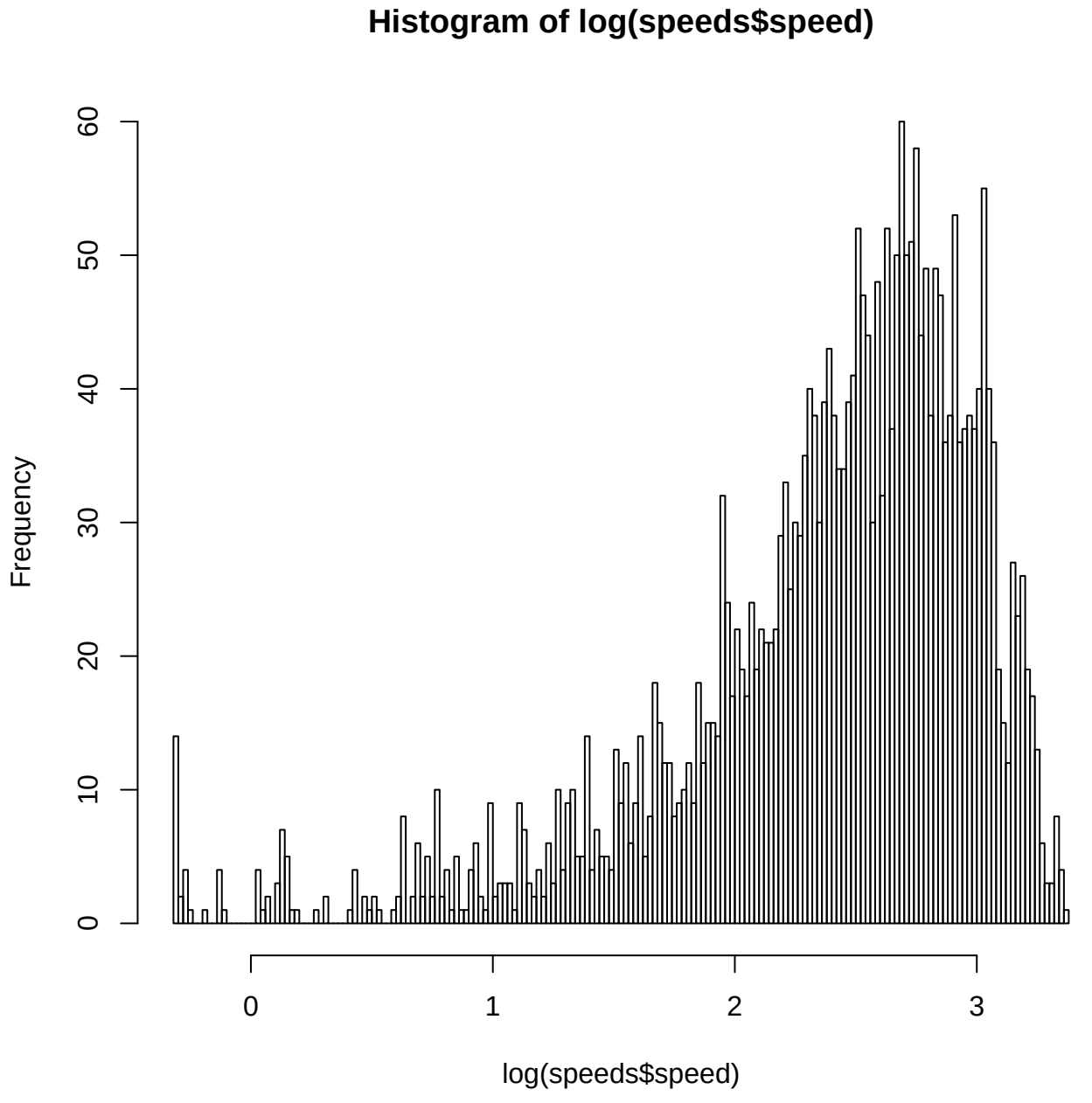

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

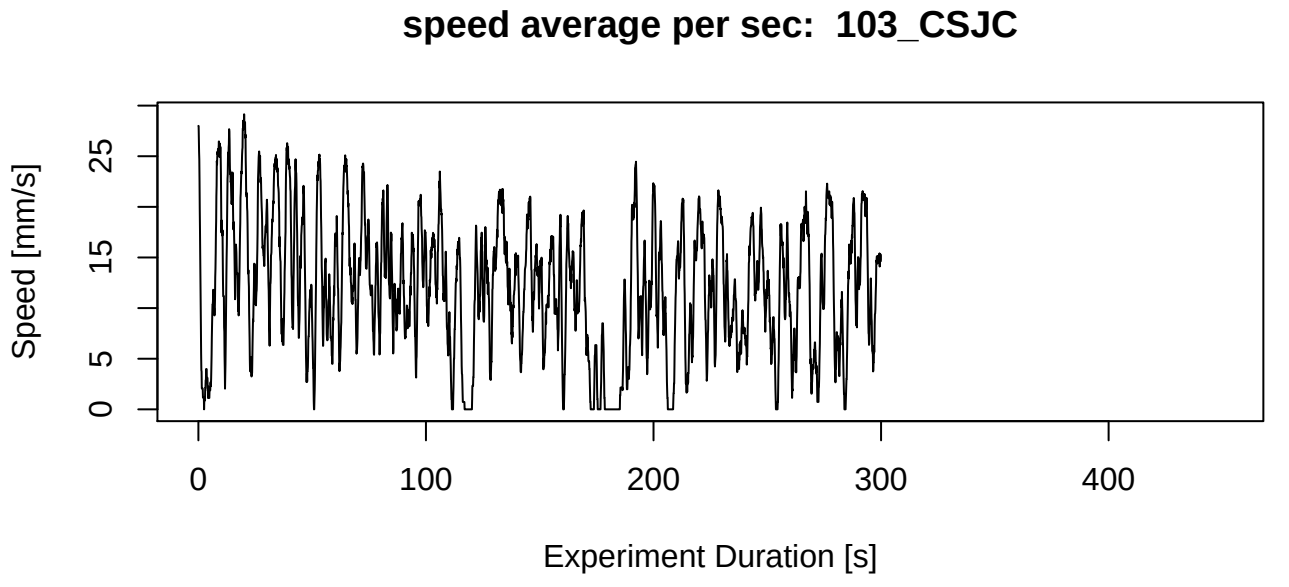

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

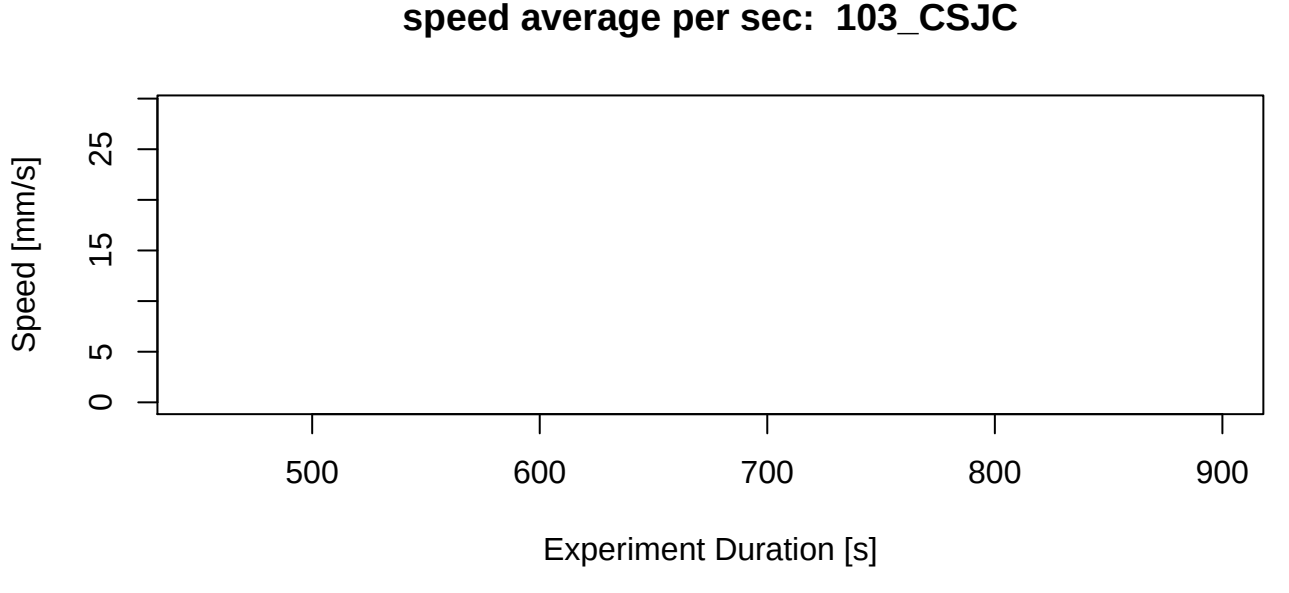

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

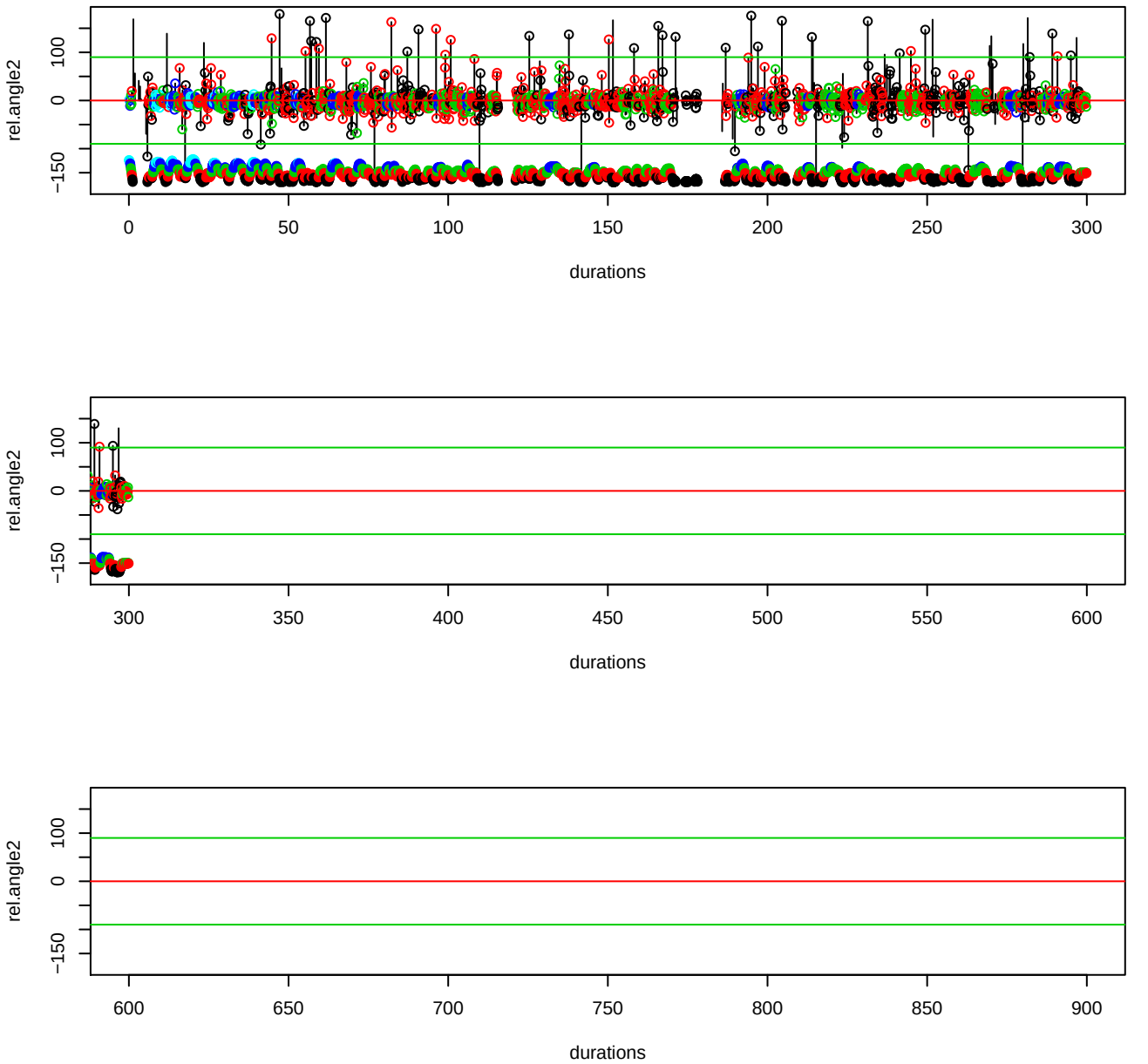

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

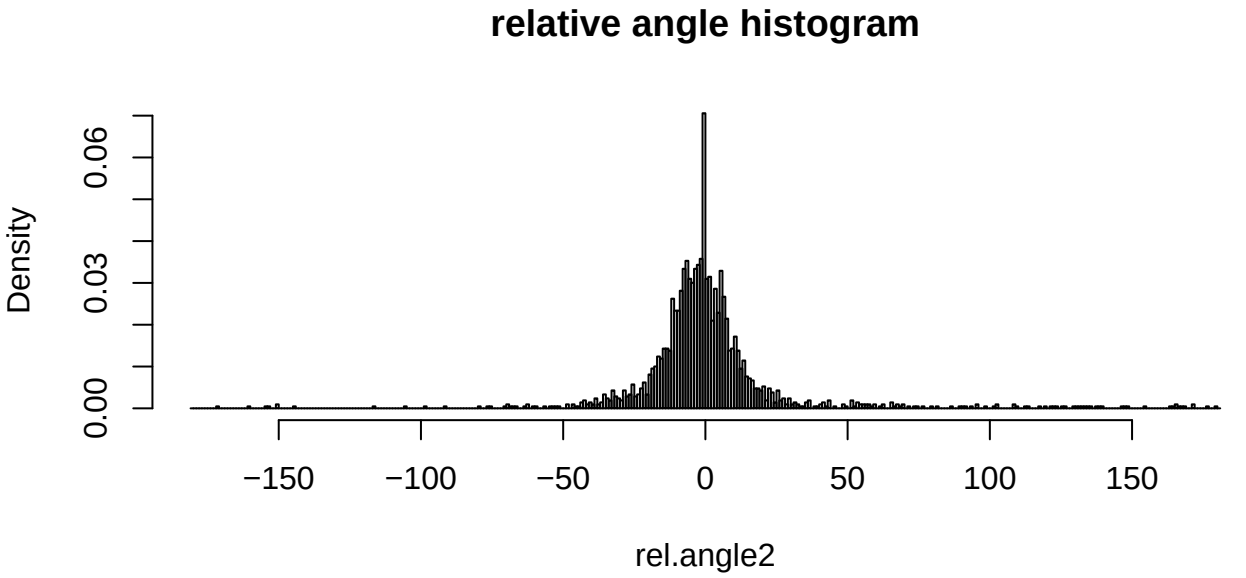

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

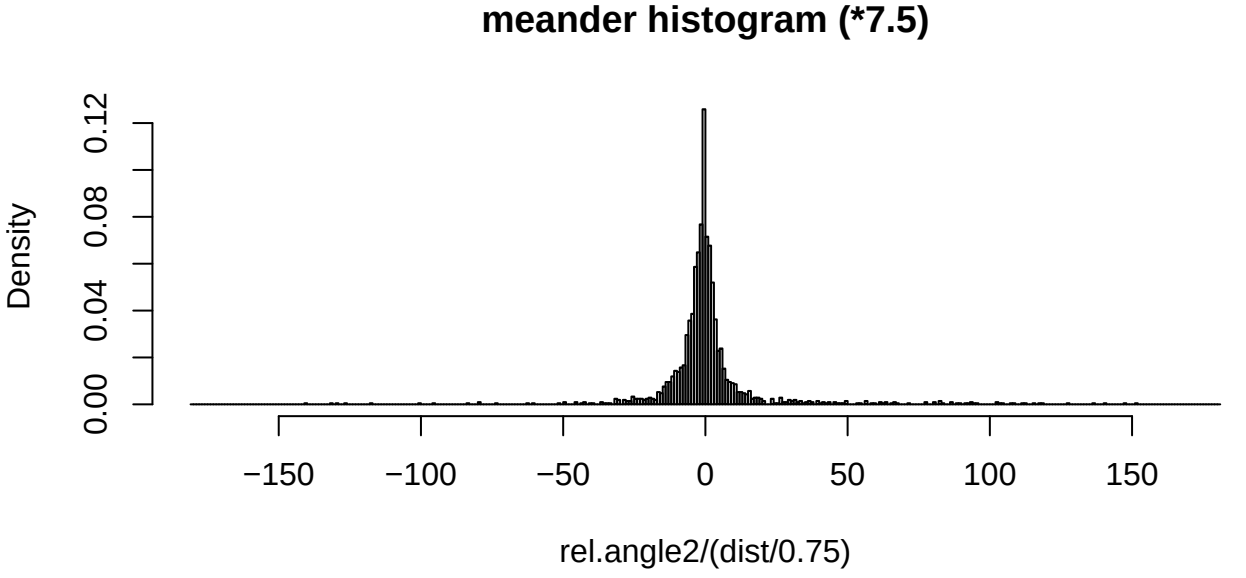

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0
1
2
3
log(speeds$speed)

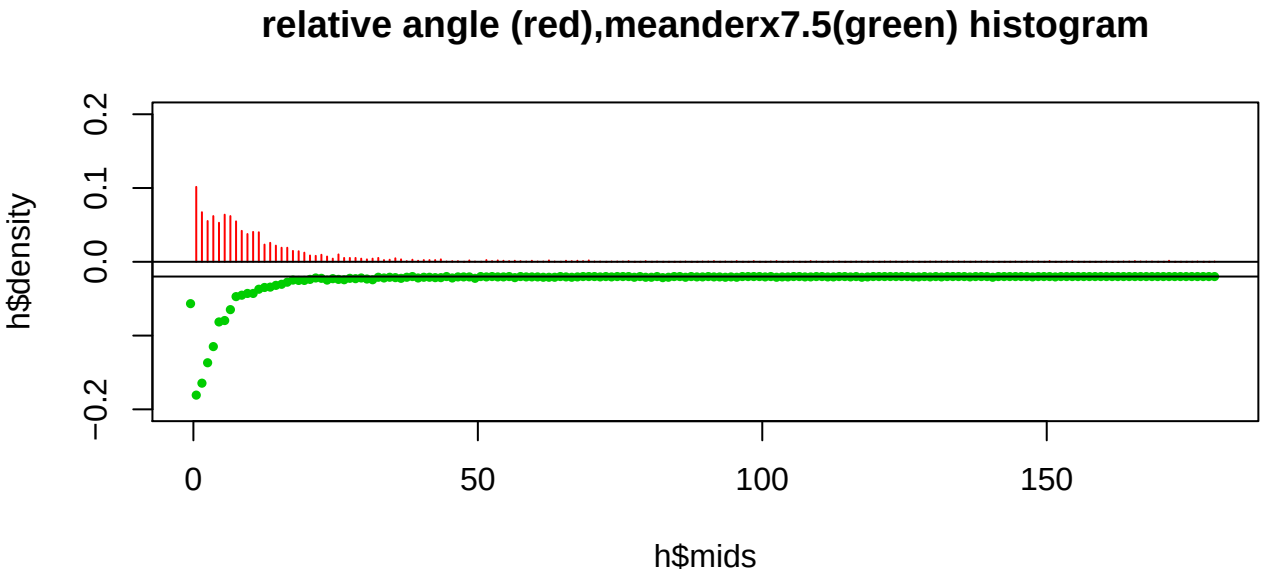

speed average per sec: 103_CSJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

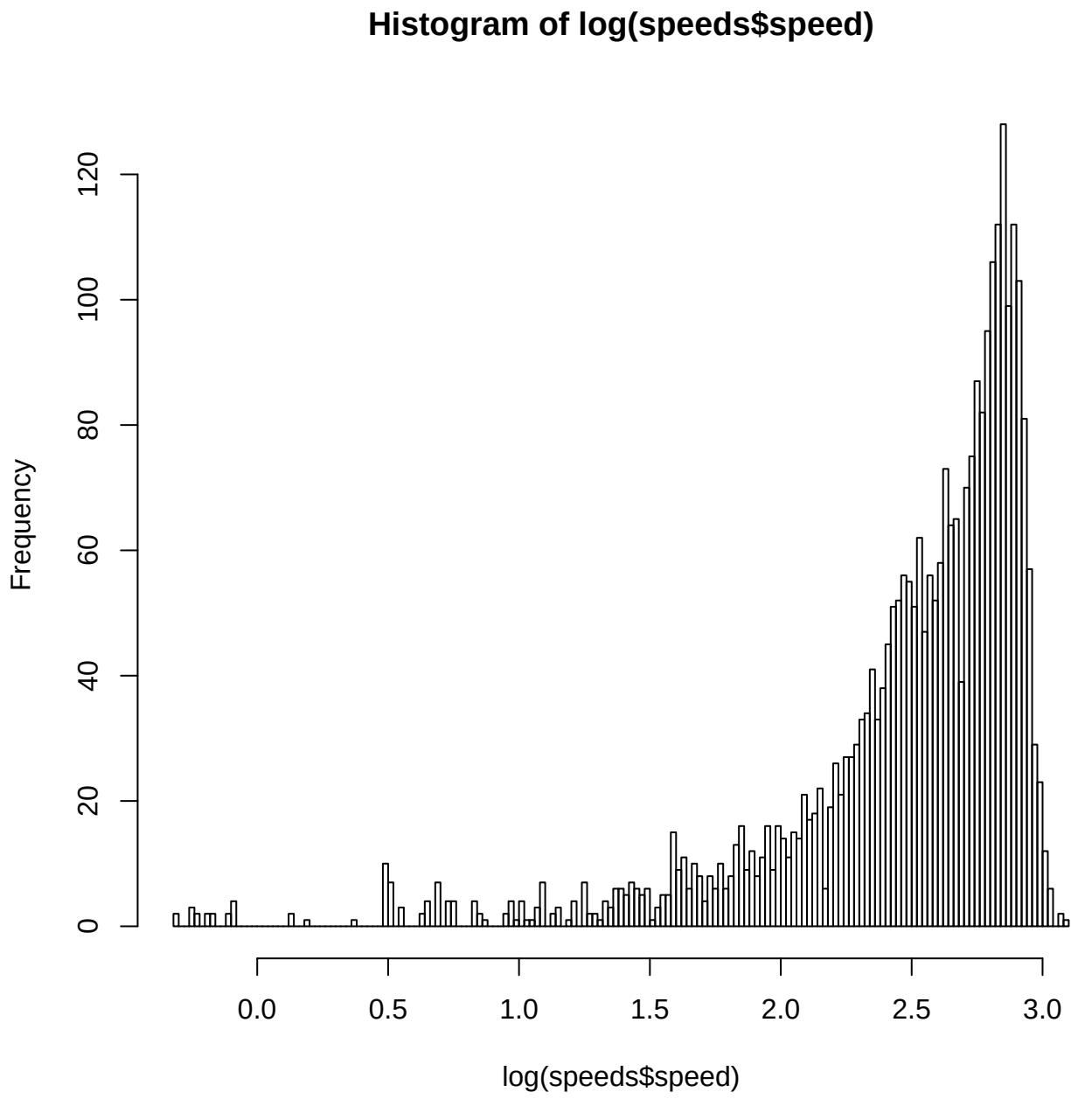

speed average per sec: 103_CSJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

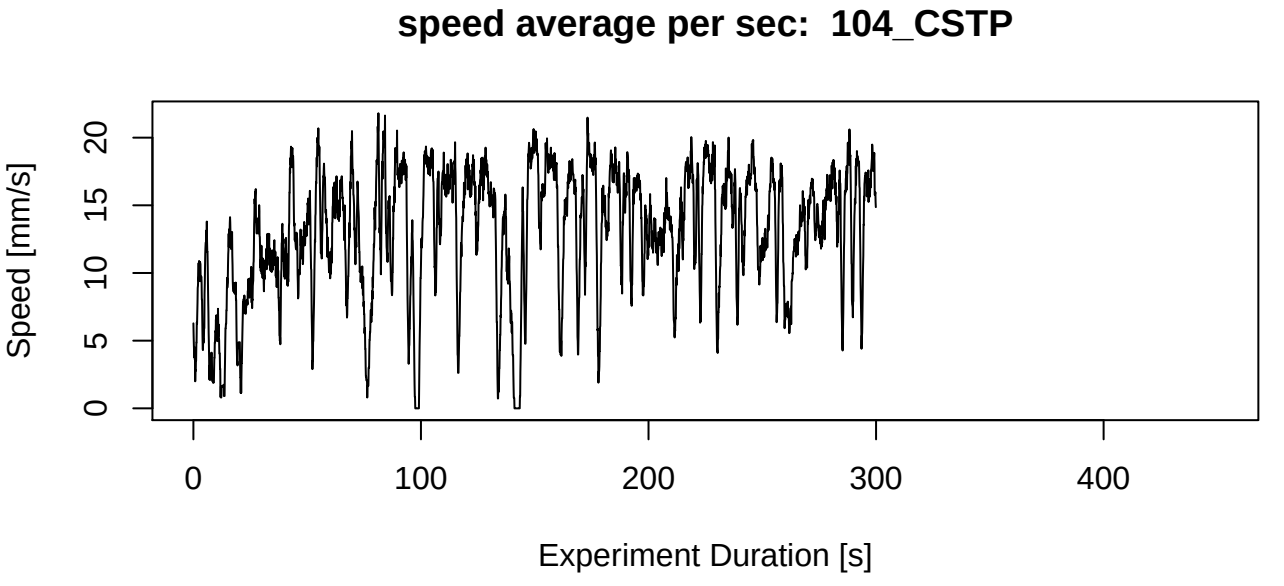

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

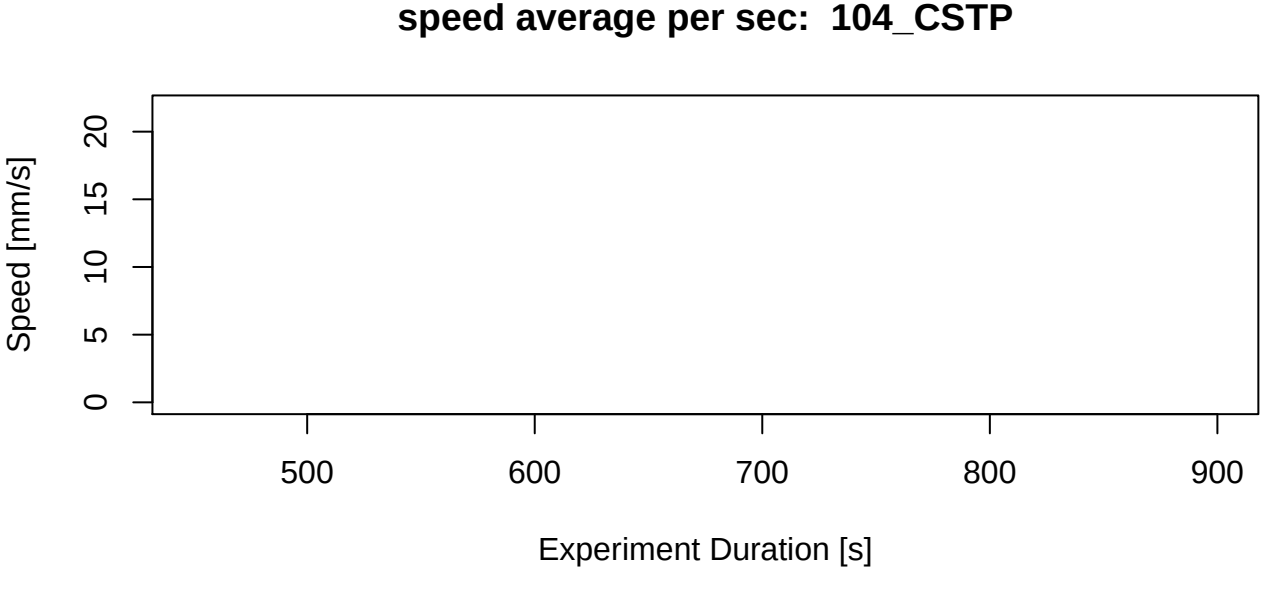

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

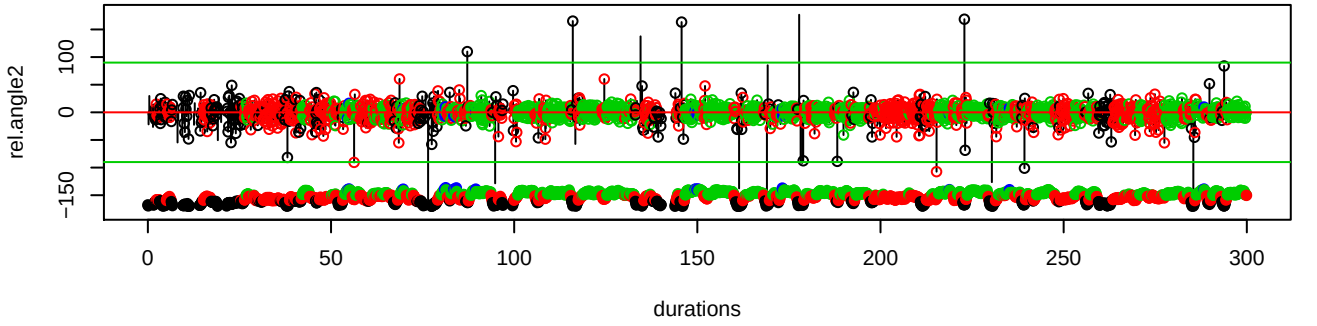

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

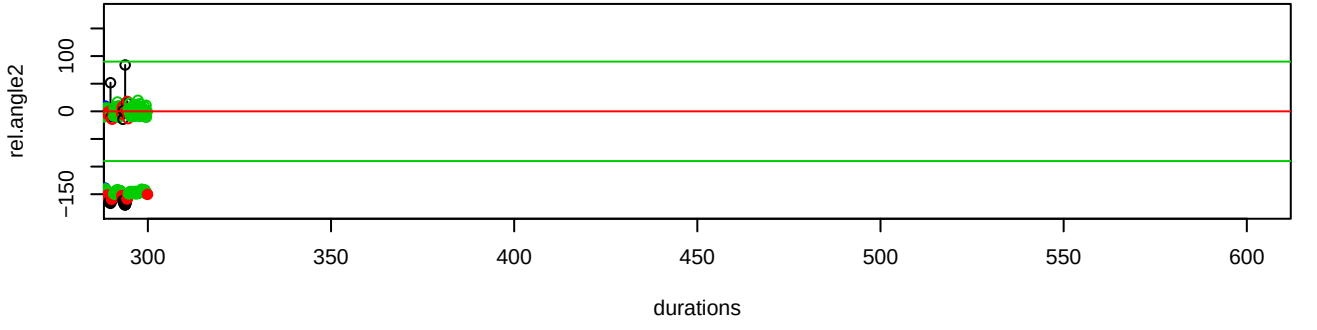

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

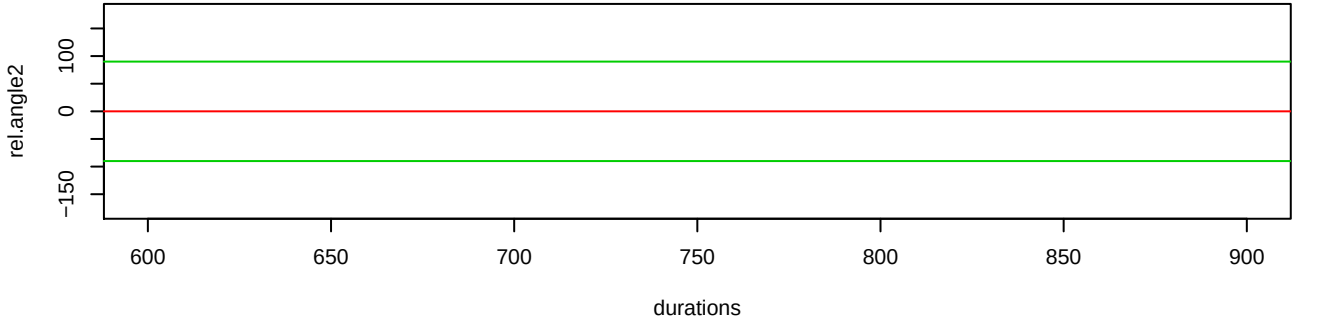

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

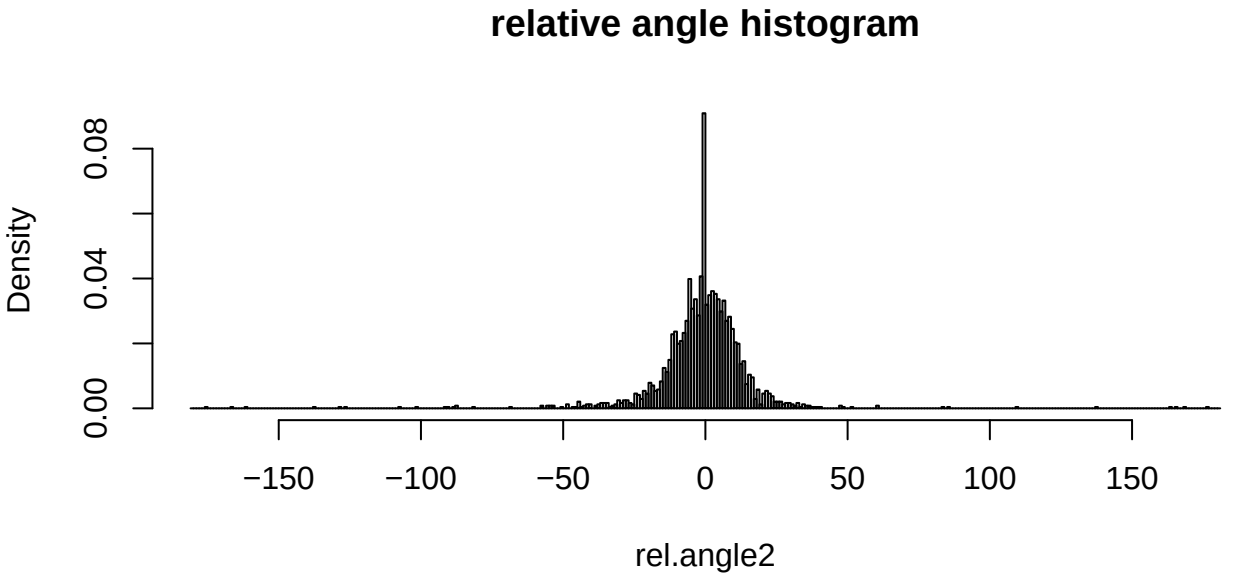

speed average per sec: 104_CSTP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

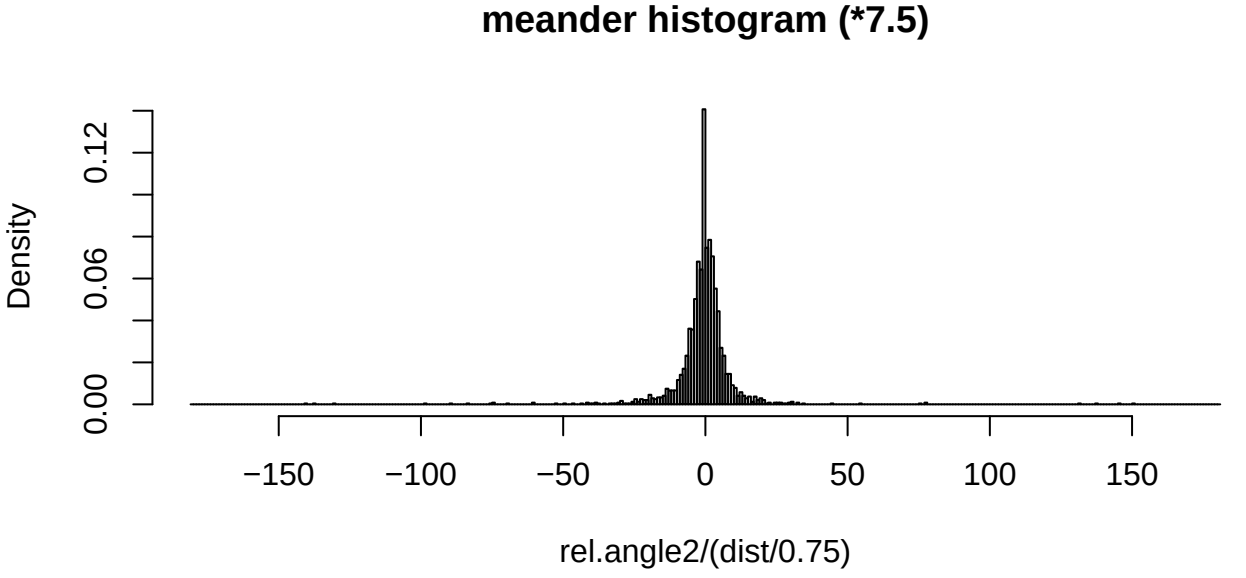

speed average per sec: 104_CSTP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

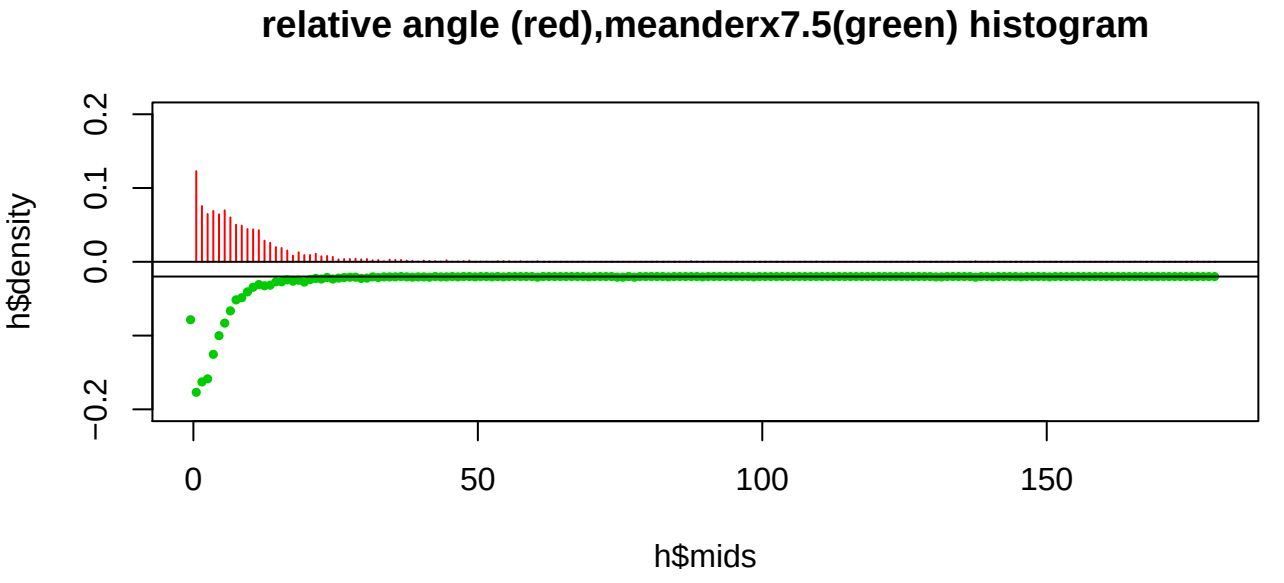

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

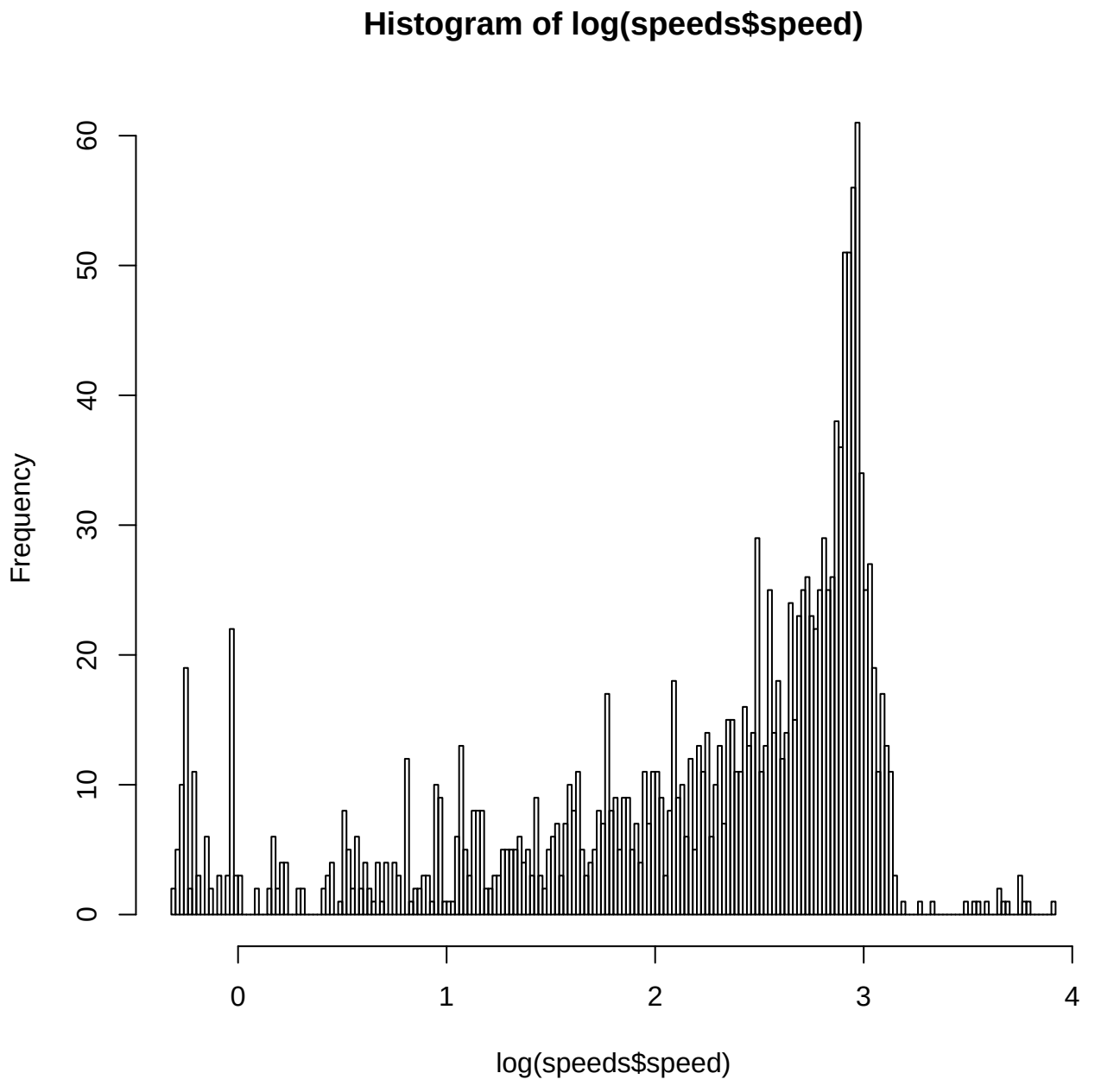

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

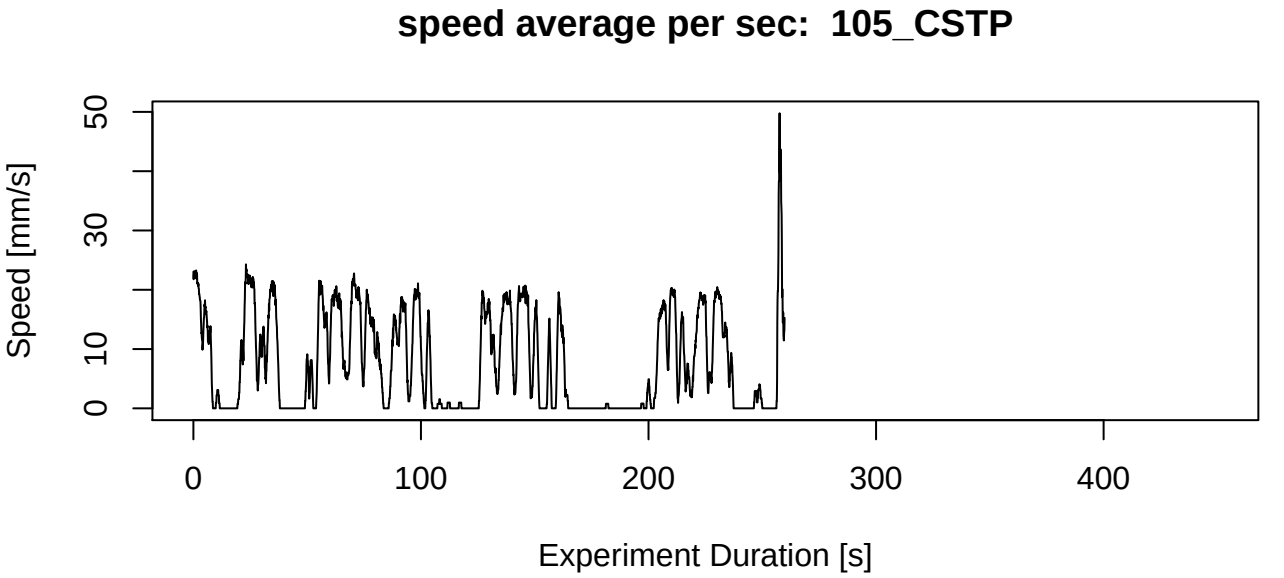

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

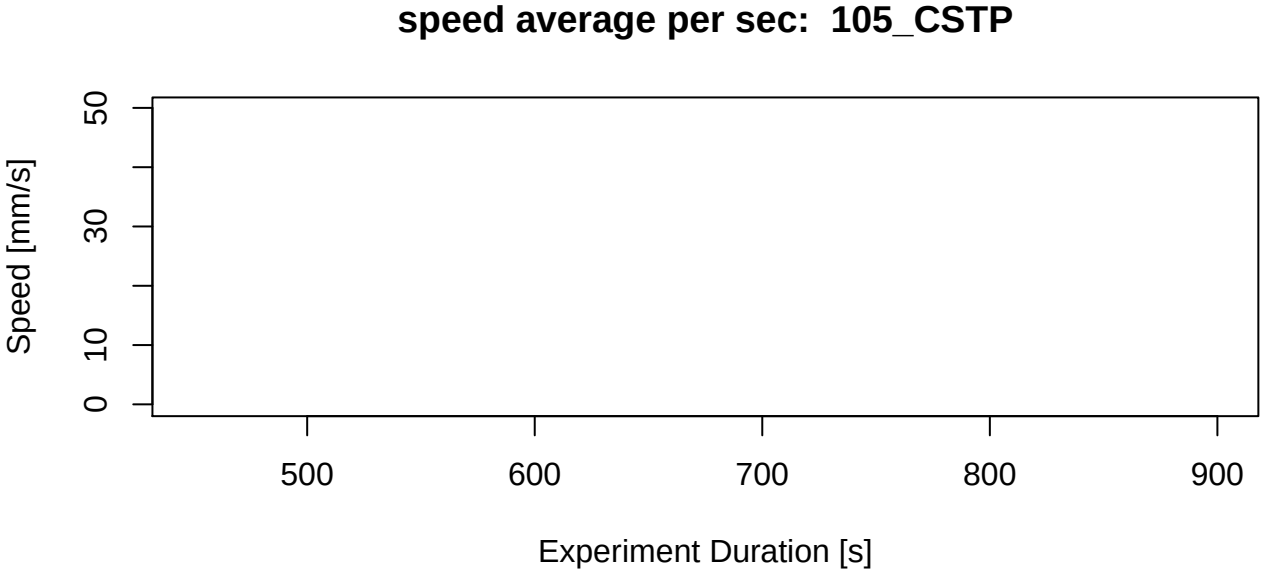

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

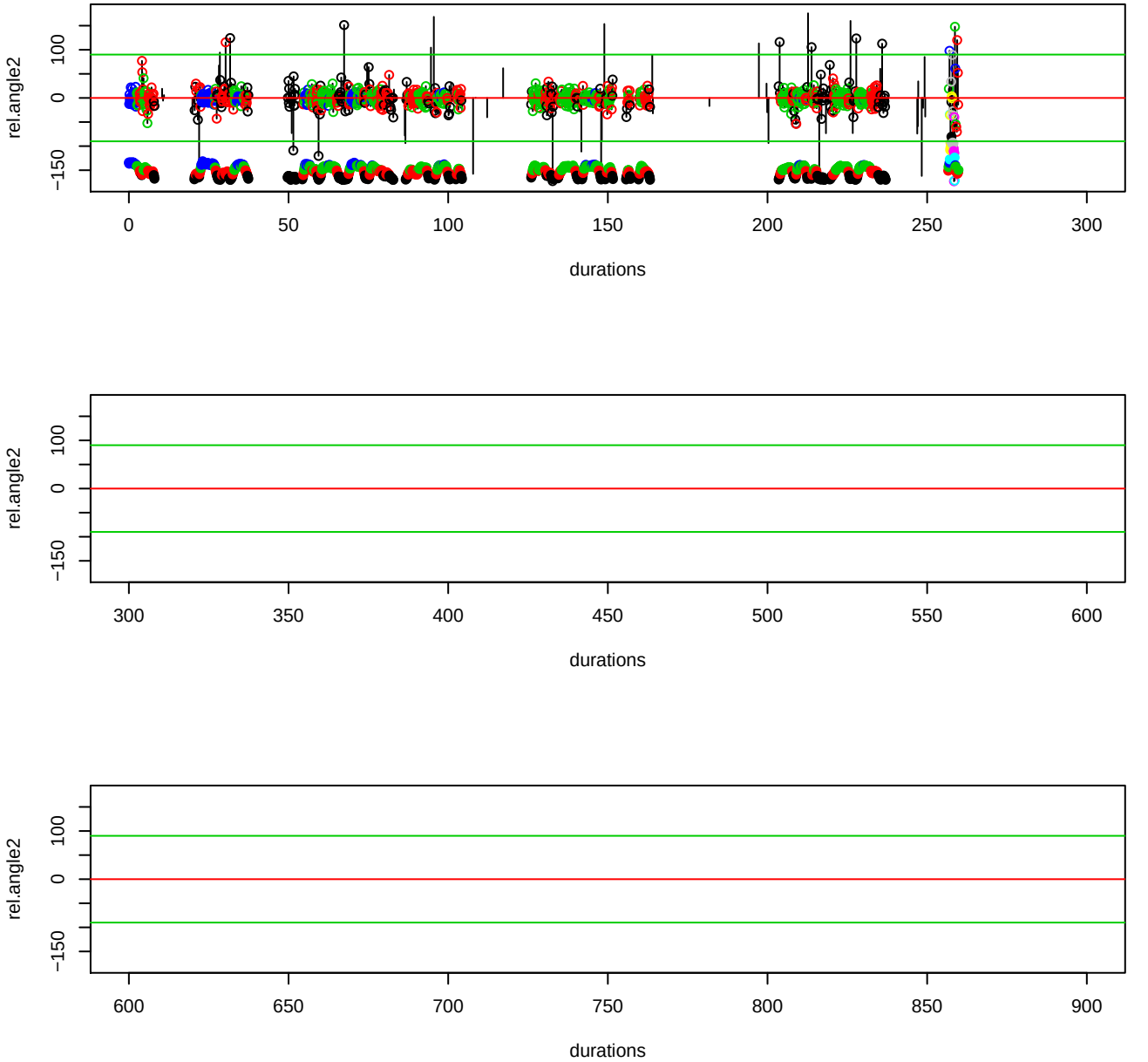

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

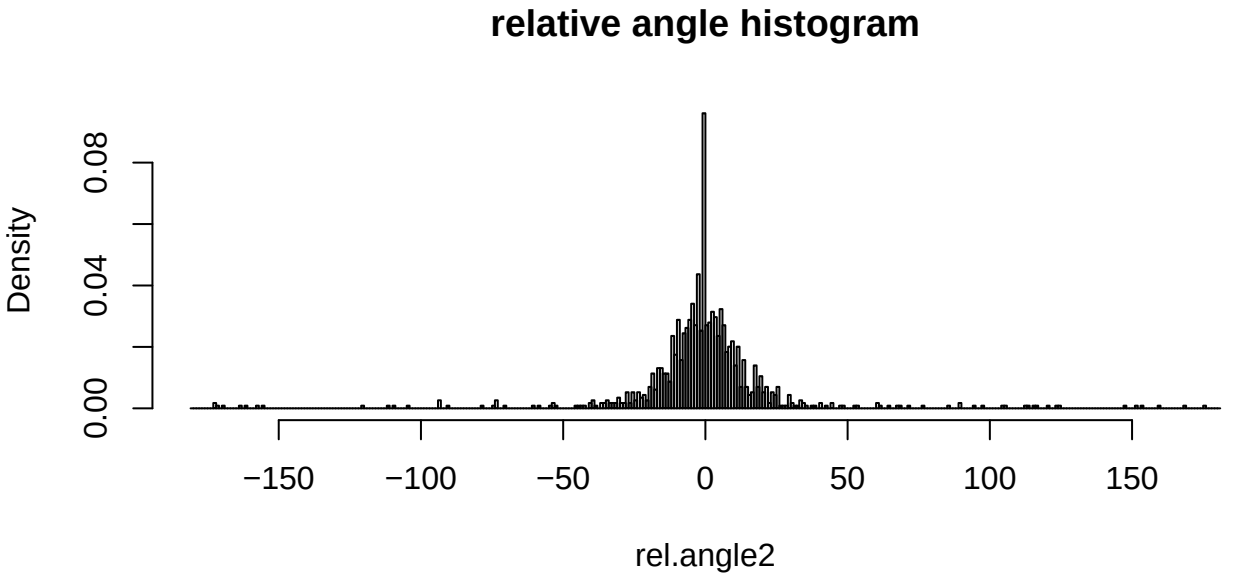

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

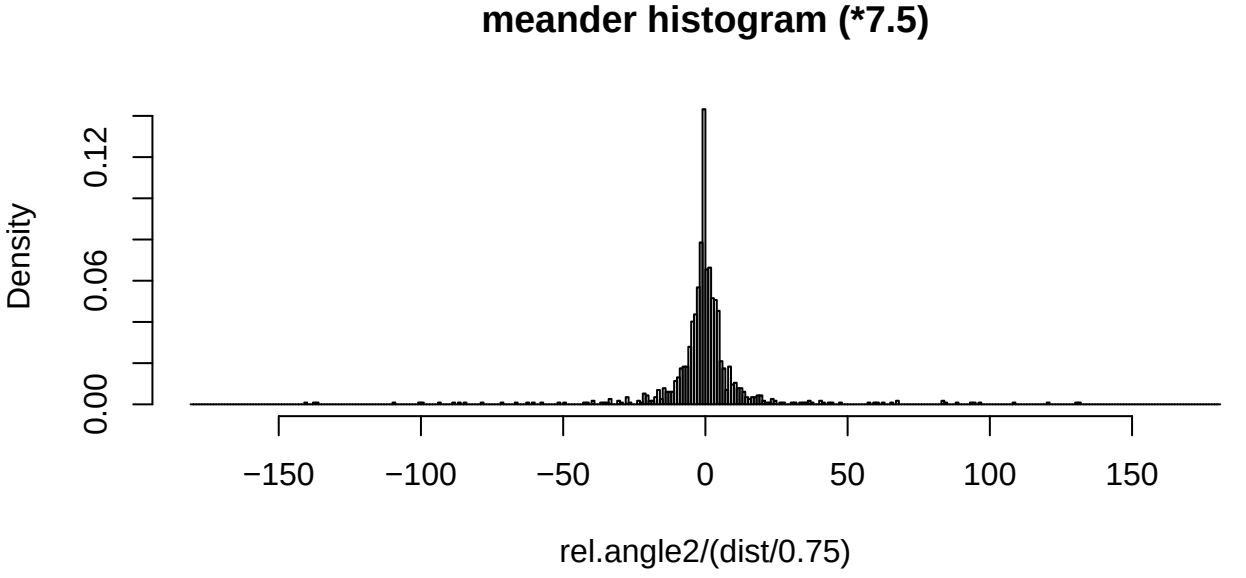

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0
1
2
3
4
log(speeds$speed)

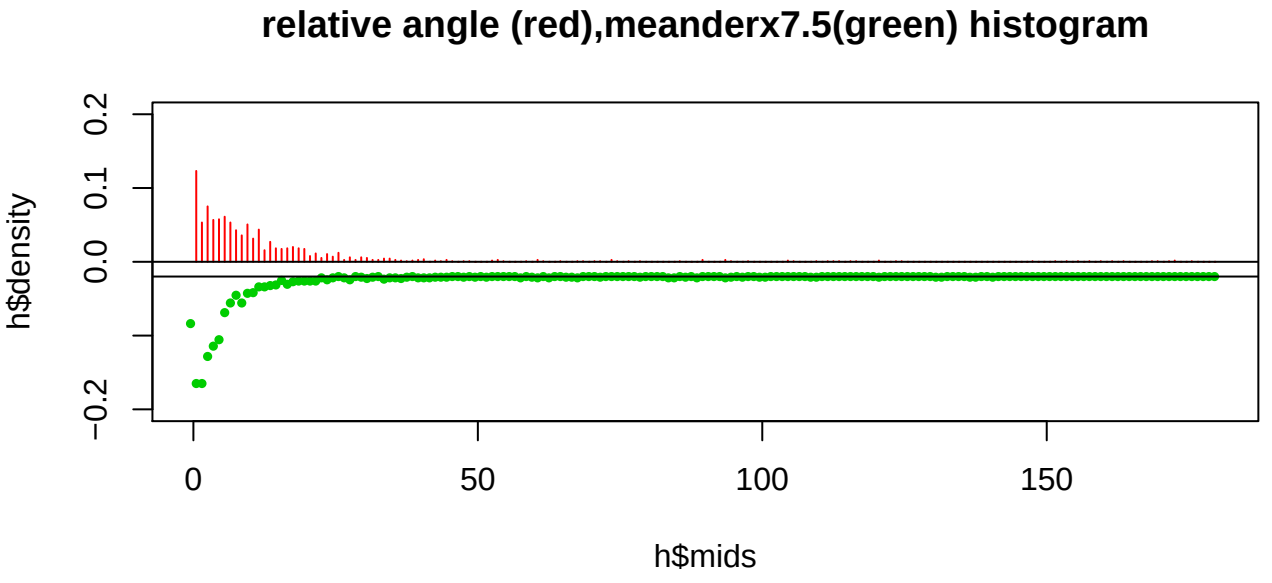

speed average per sec: 105_CSTP
Speed [mm/s]
0
10
30
50
0
100
200
300
400
Experiment Duration [s]

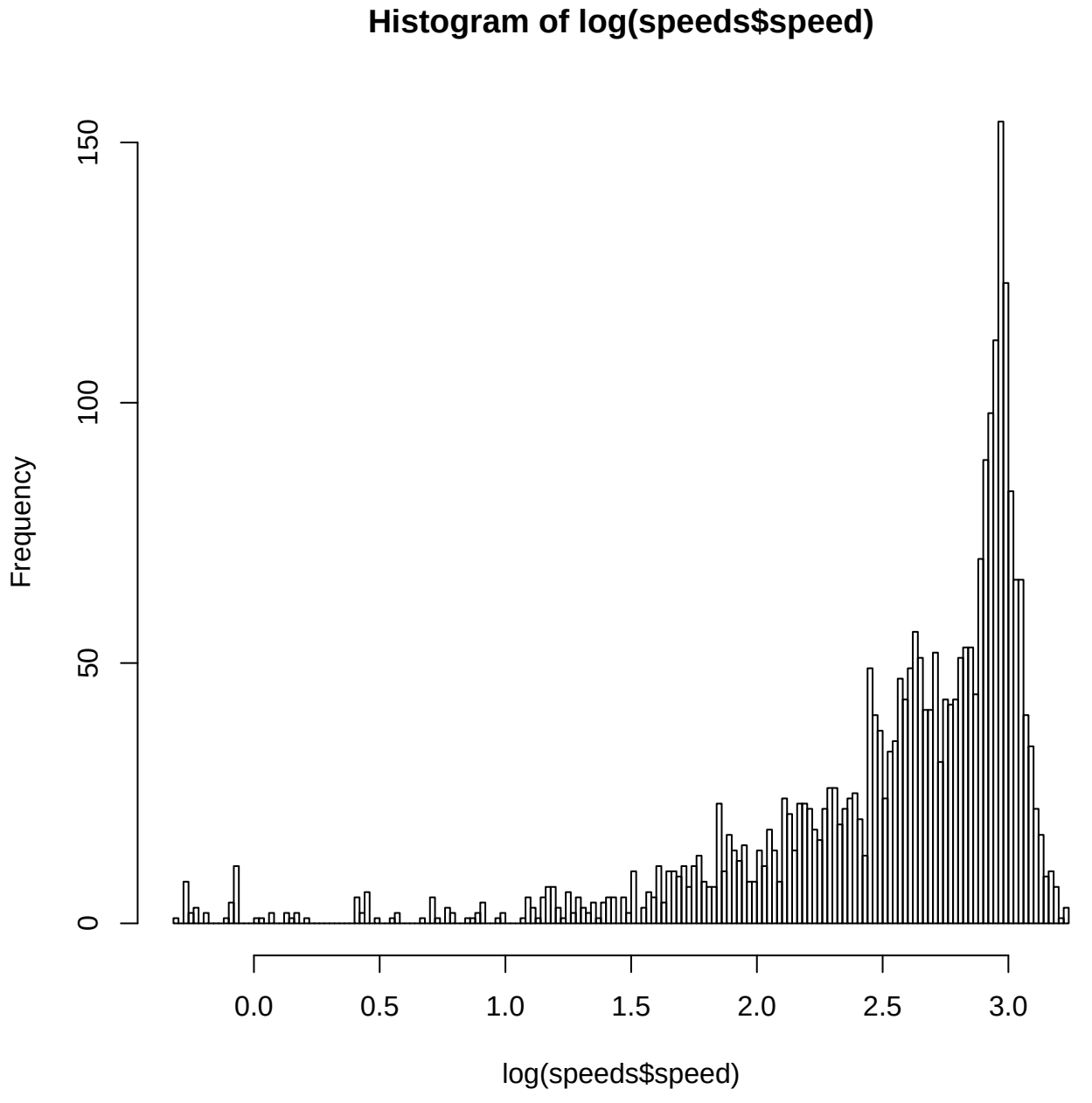

speed average per sec: 105_CSTP
Speed [mm/s]
0
10
30
50
500
600
700
800
900
Experiment Duration [s]

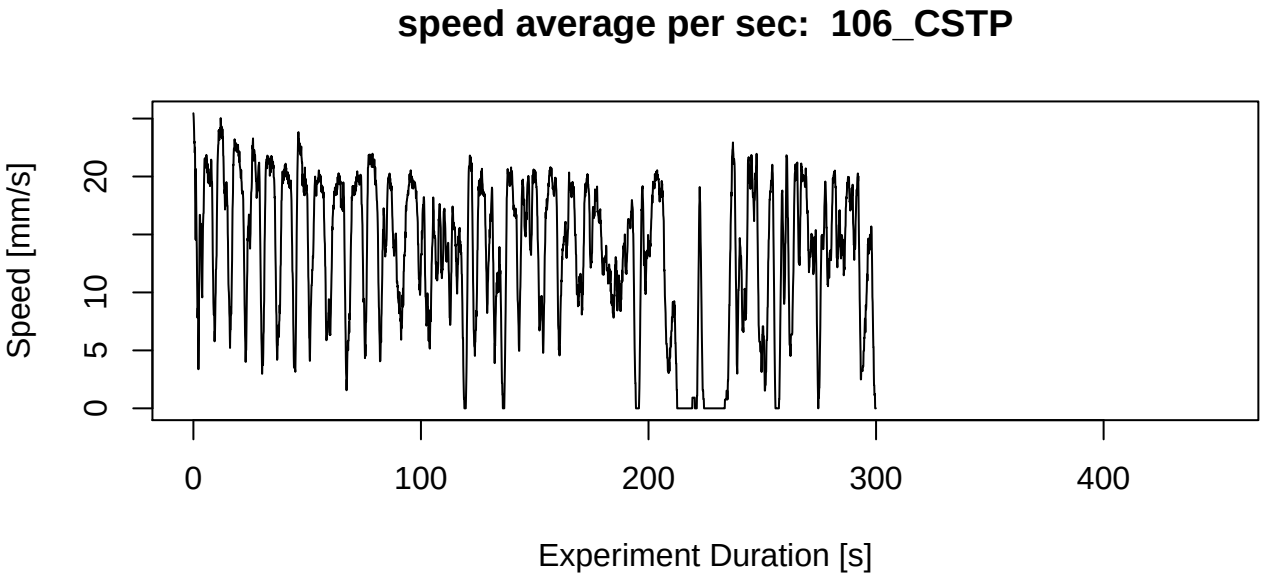

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

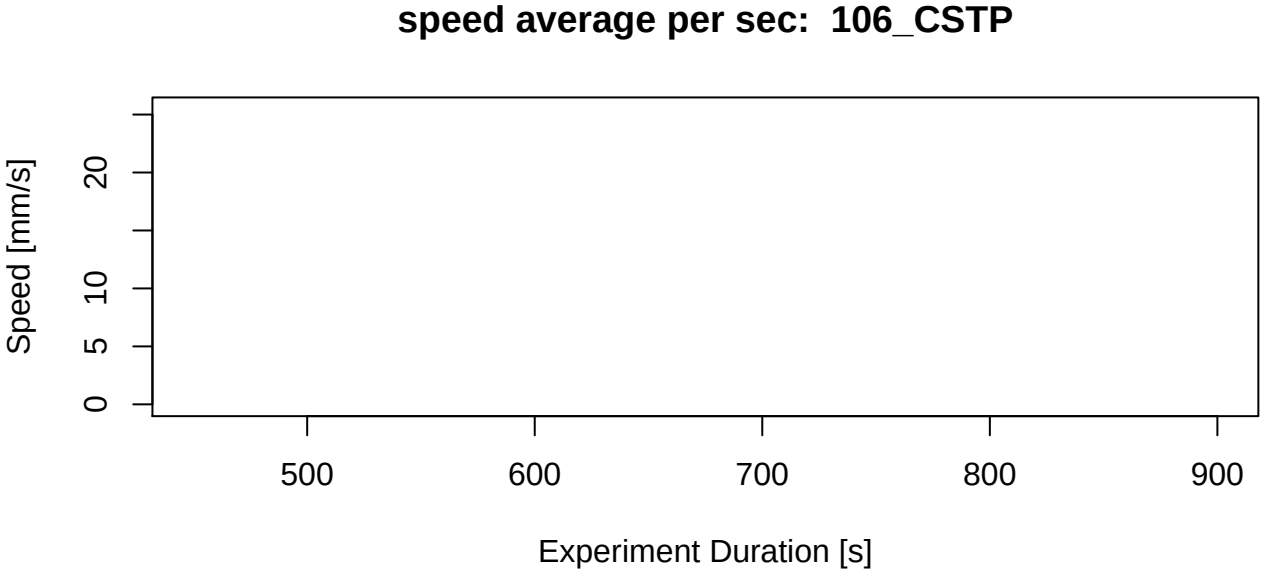

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

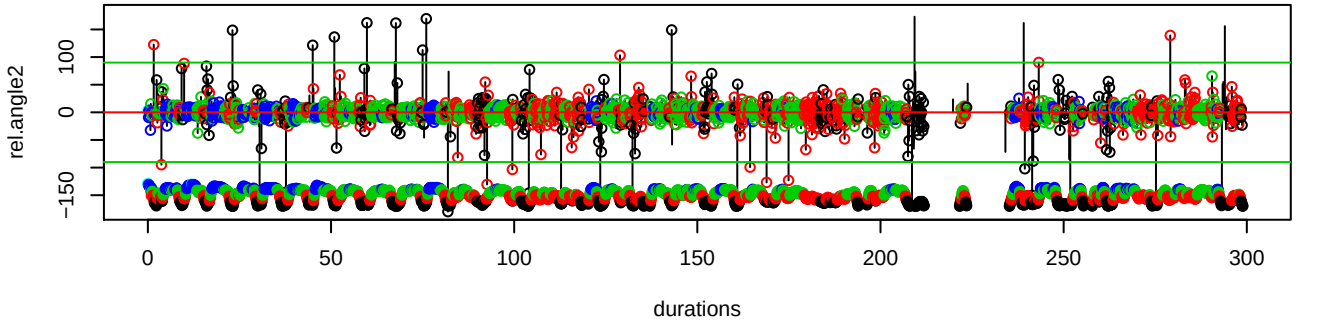

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

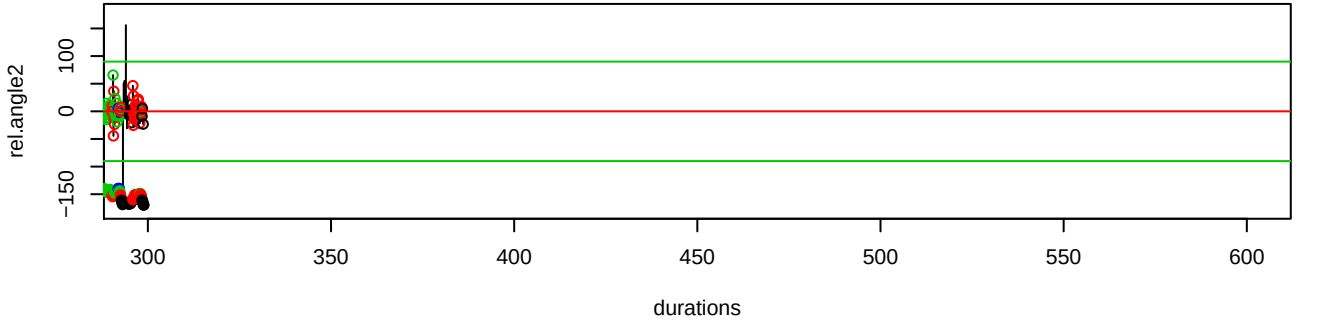

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

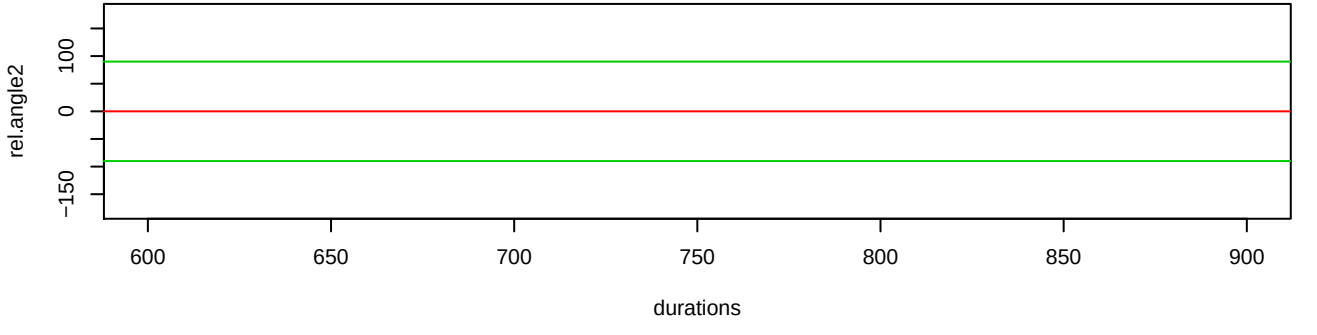

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

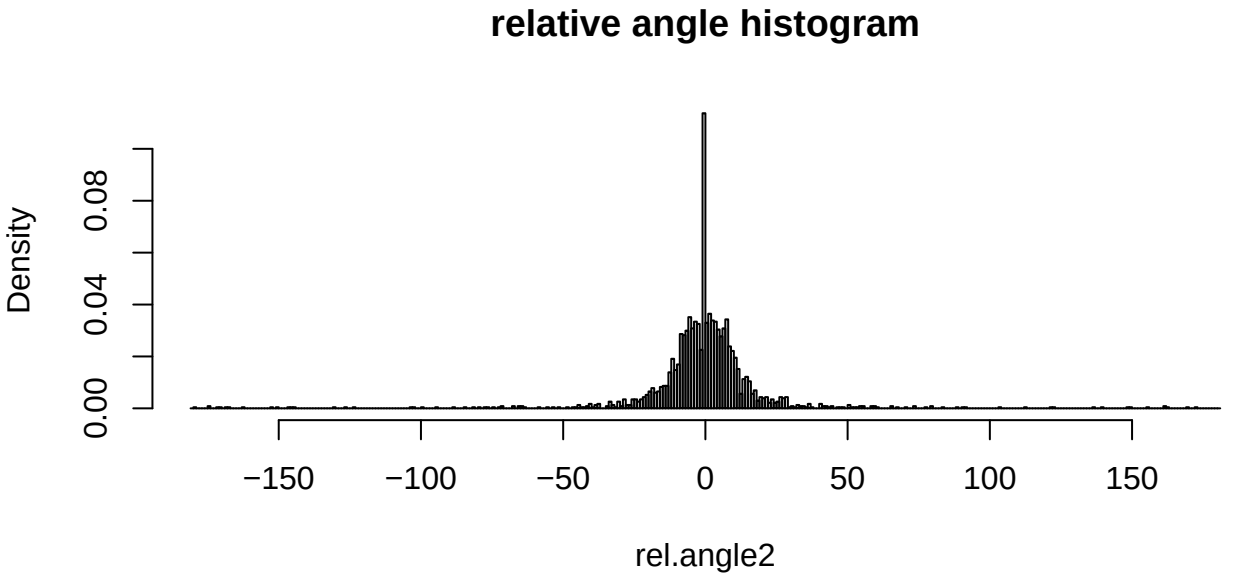

speed average per sec: 106_CSTP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

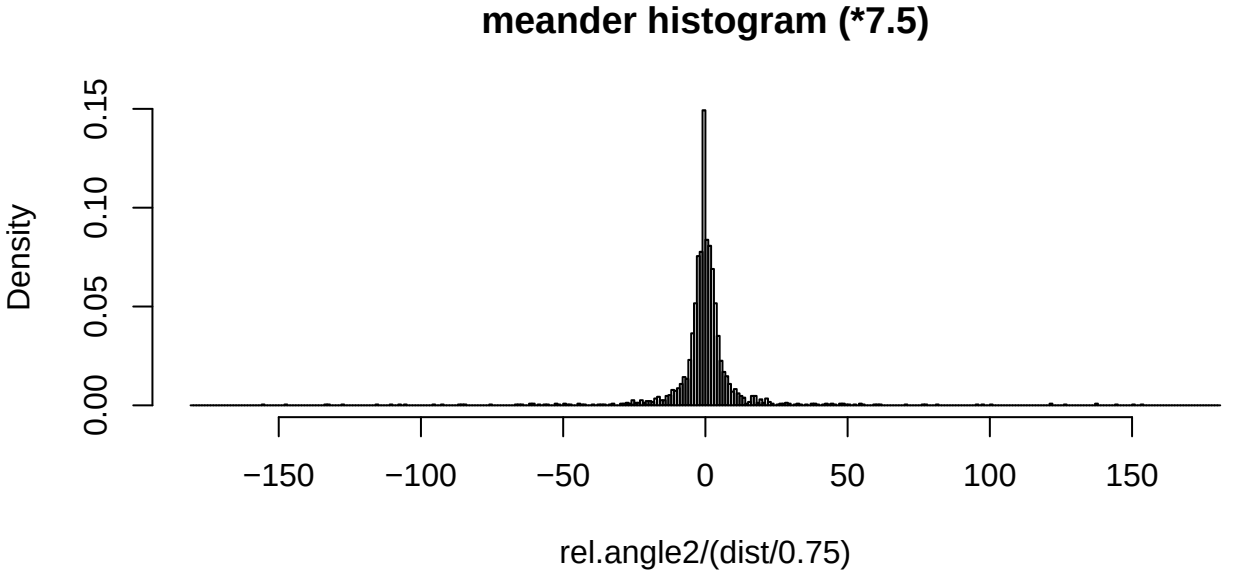

speed average per sec: 106_CSTP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

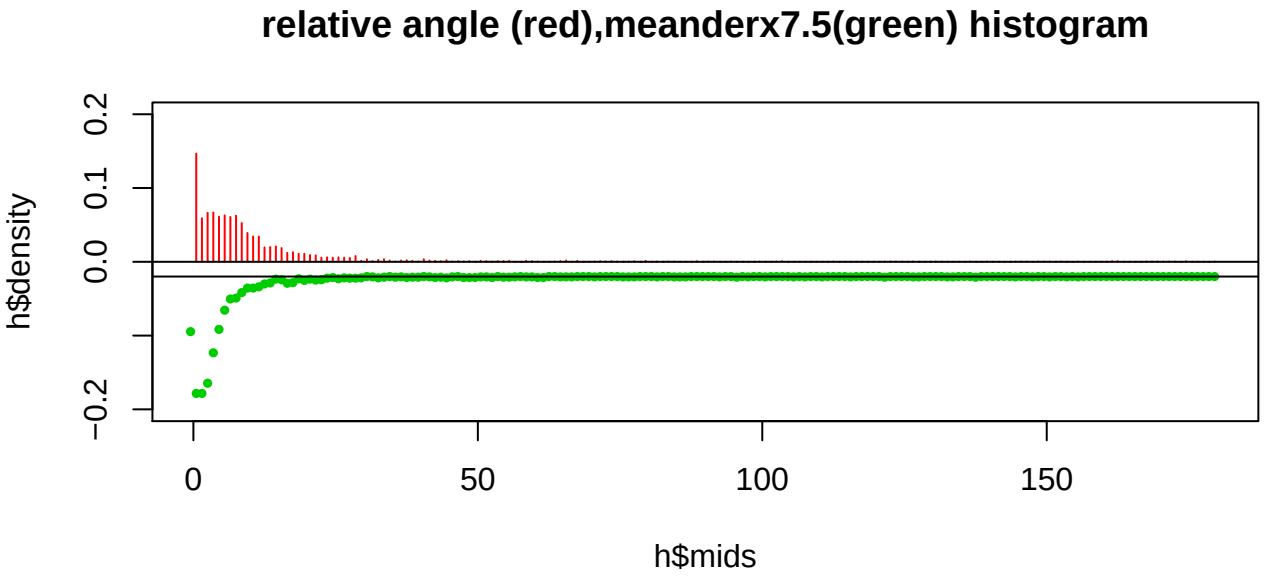

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

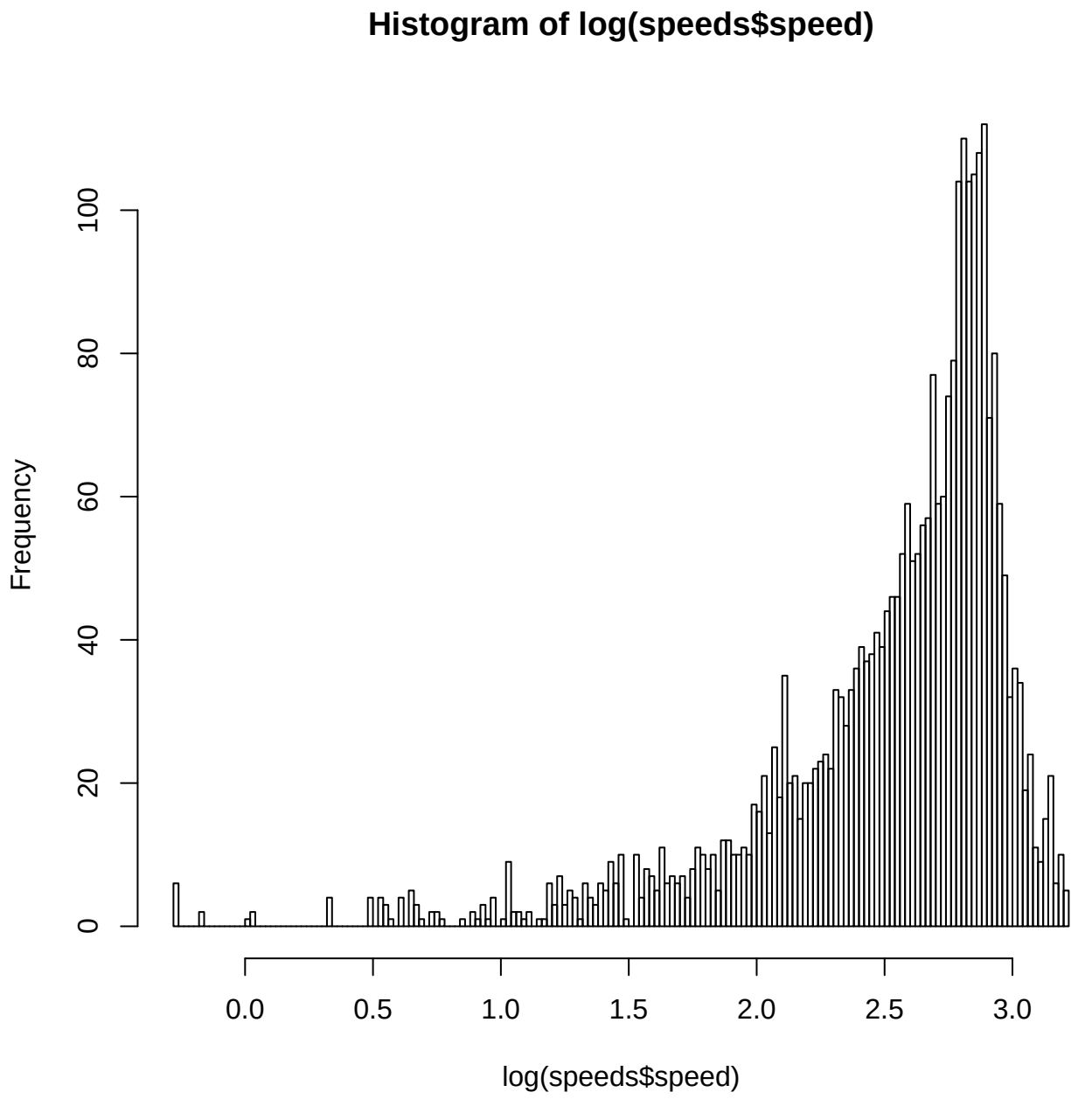

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

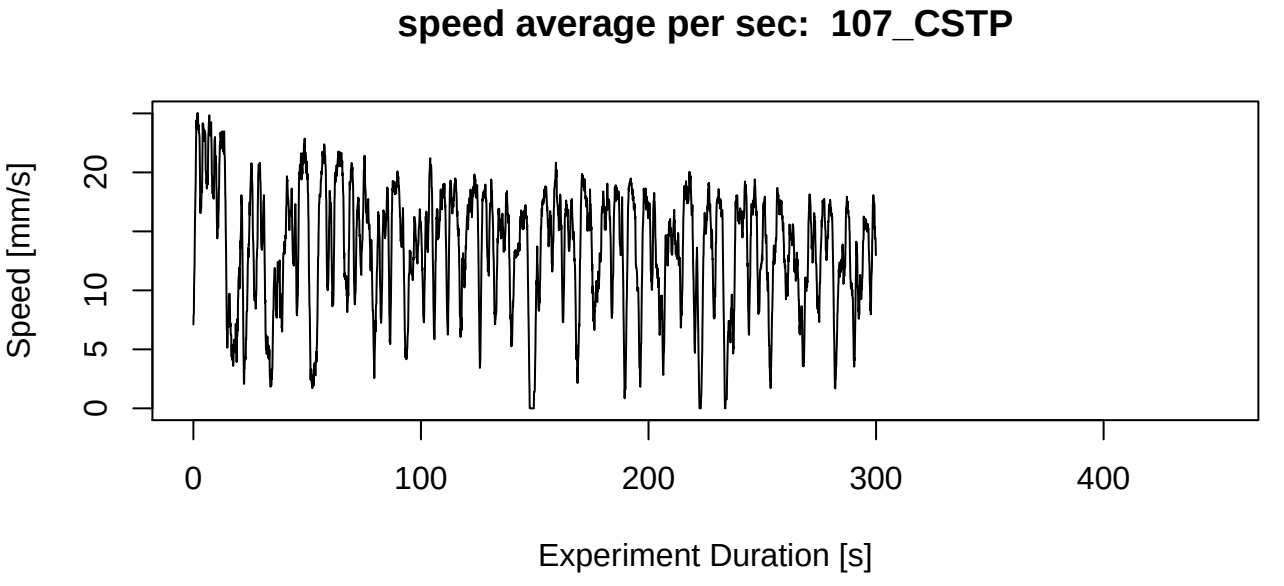

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

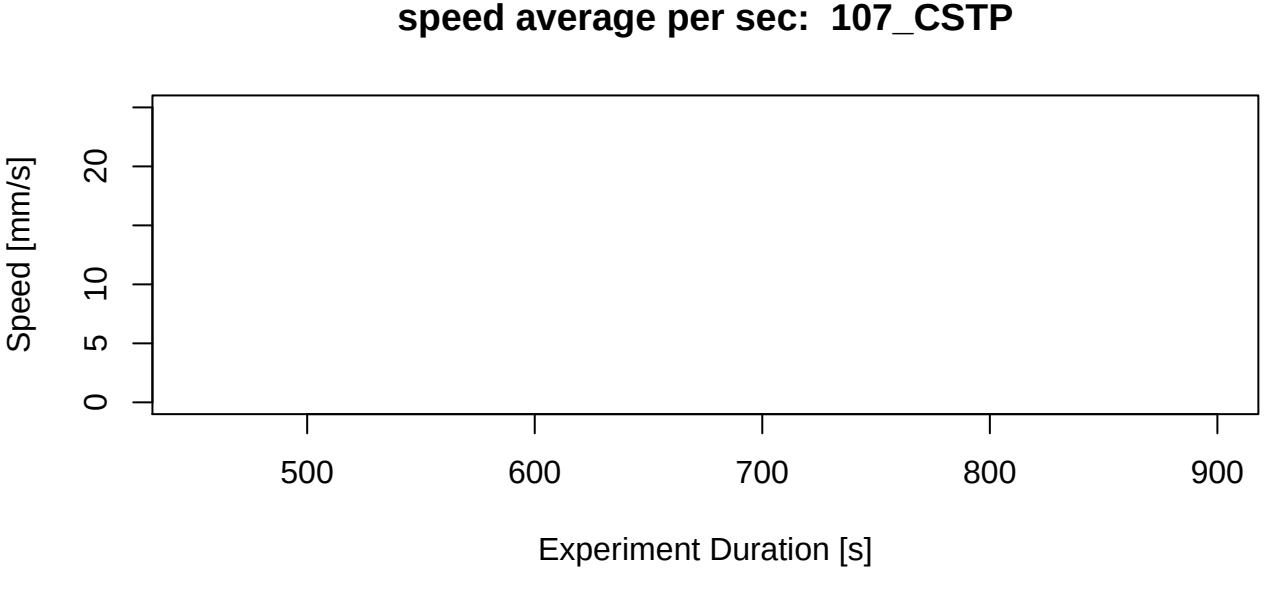

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

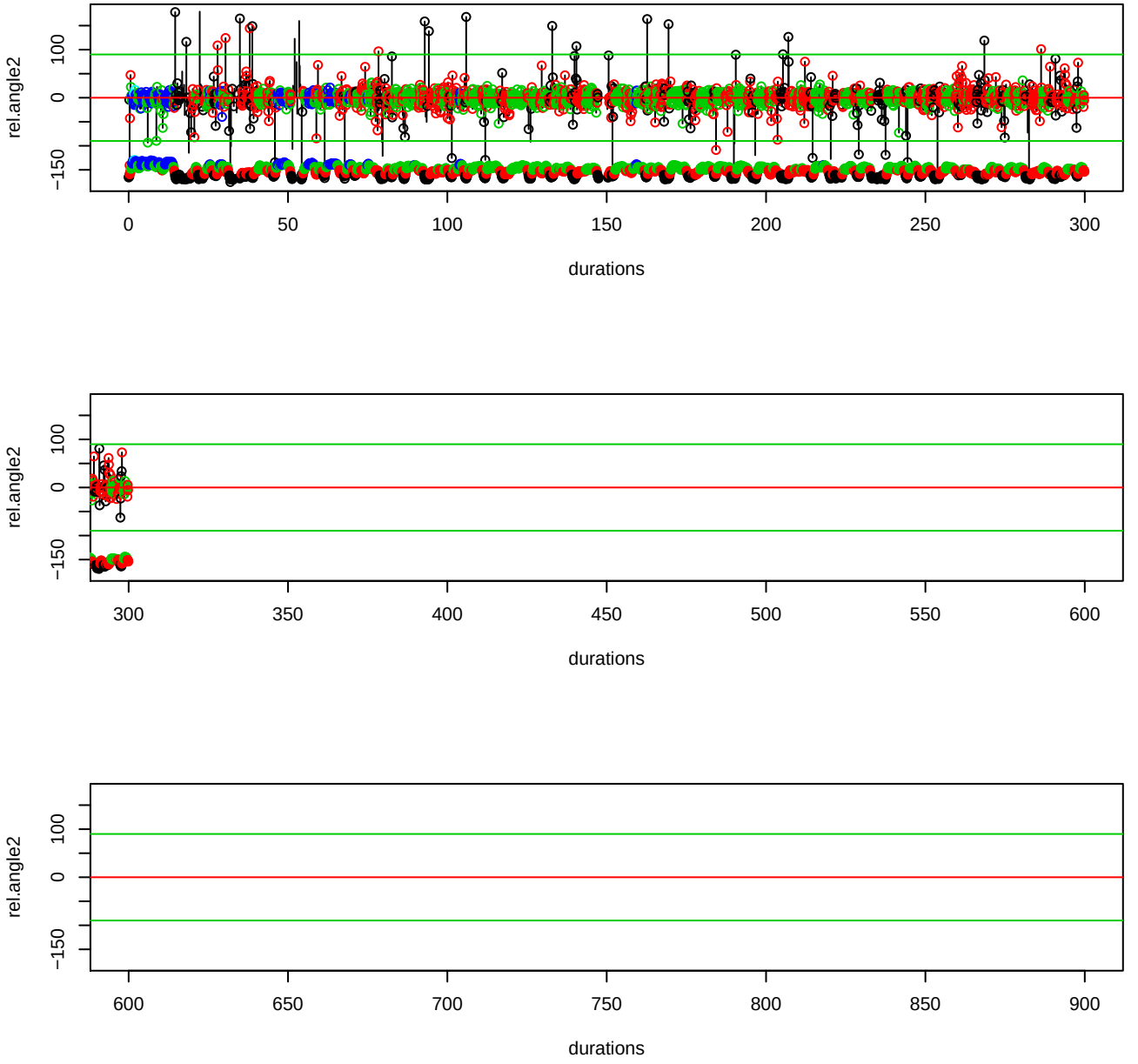

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

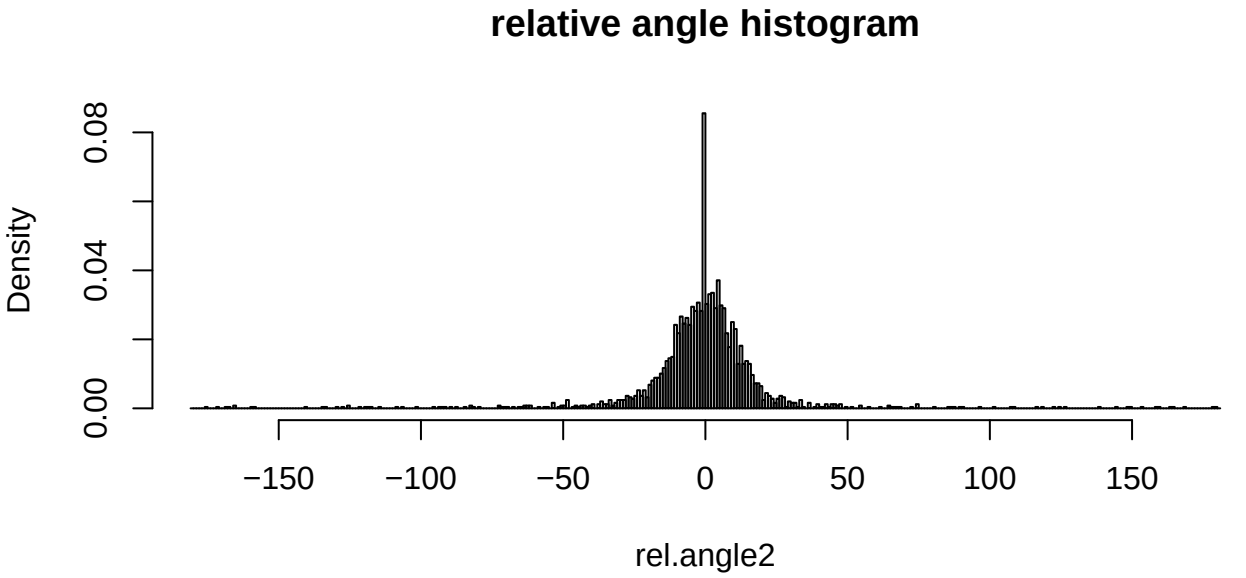

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

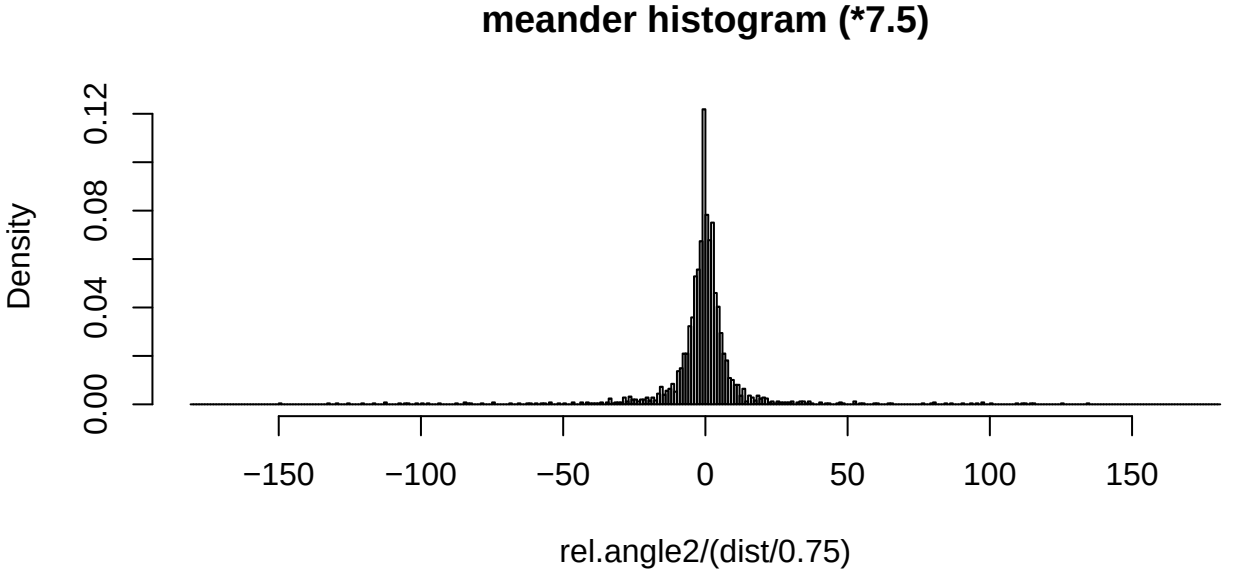

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

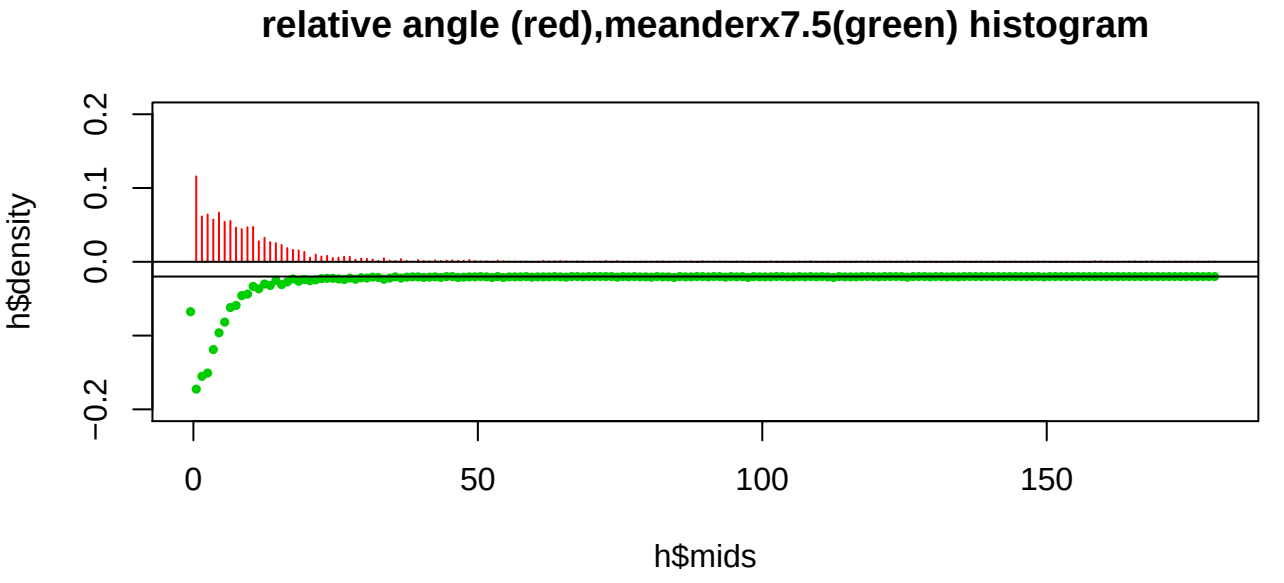

speed average per sec: 107_CSTP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

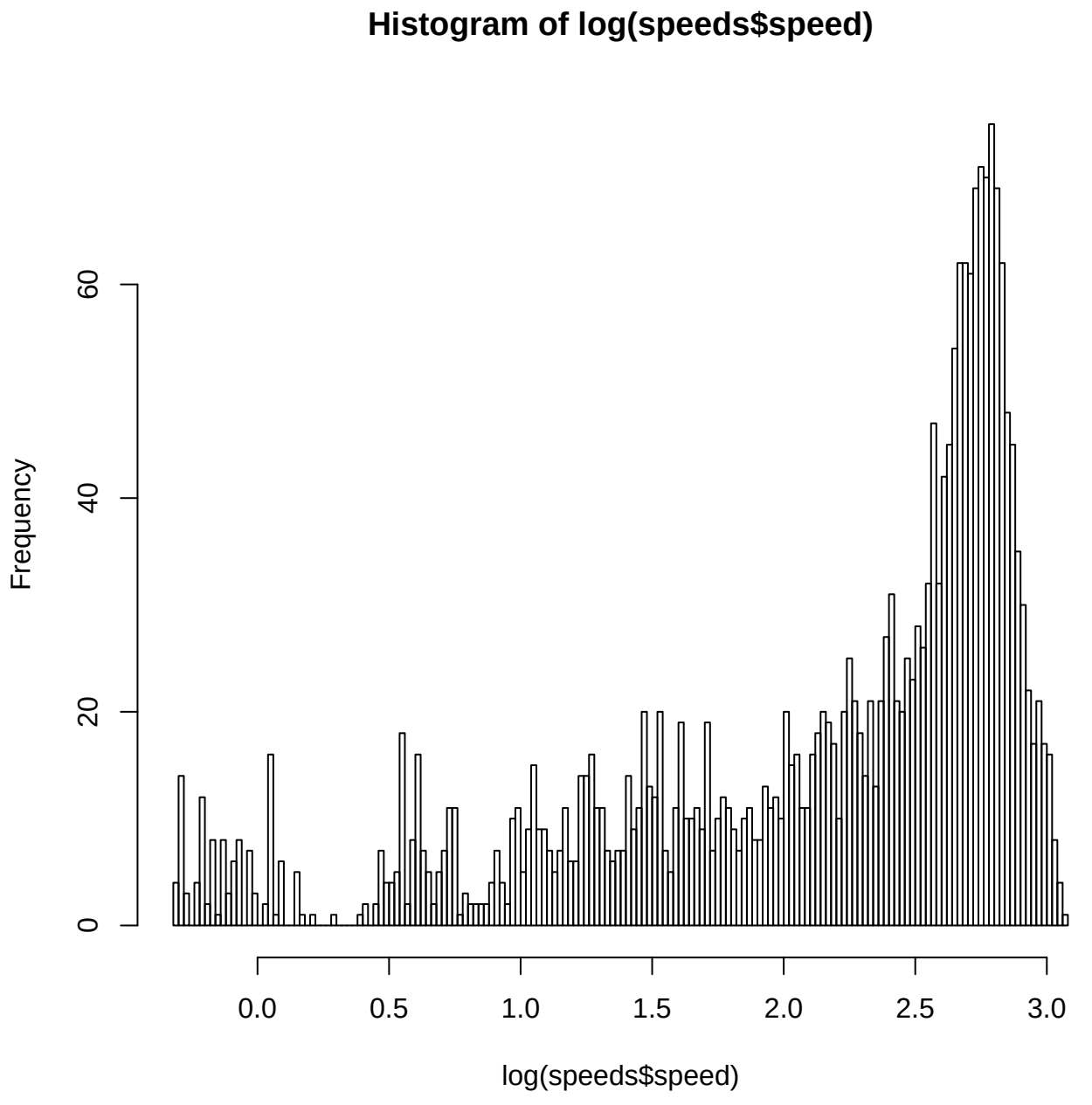

speed average per sec: 107_CSTP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

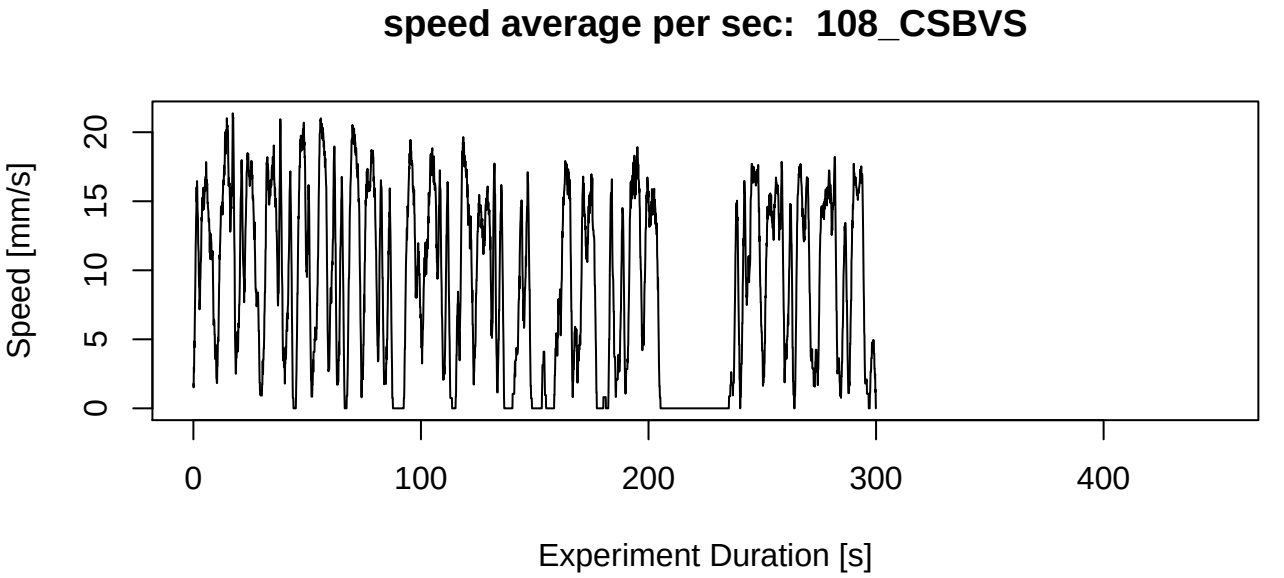

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

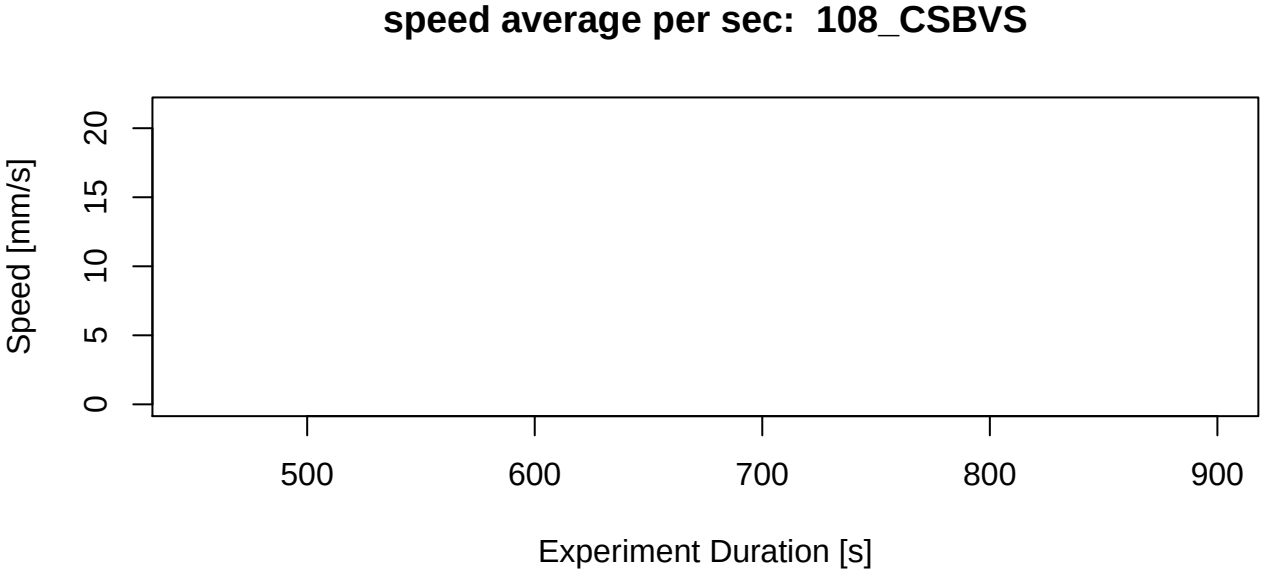

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

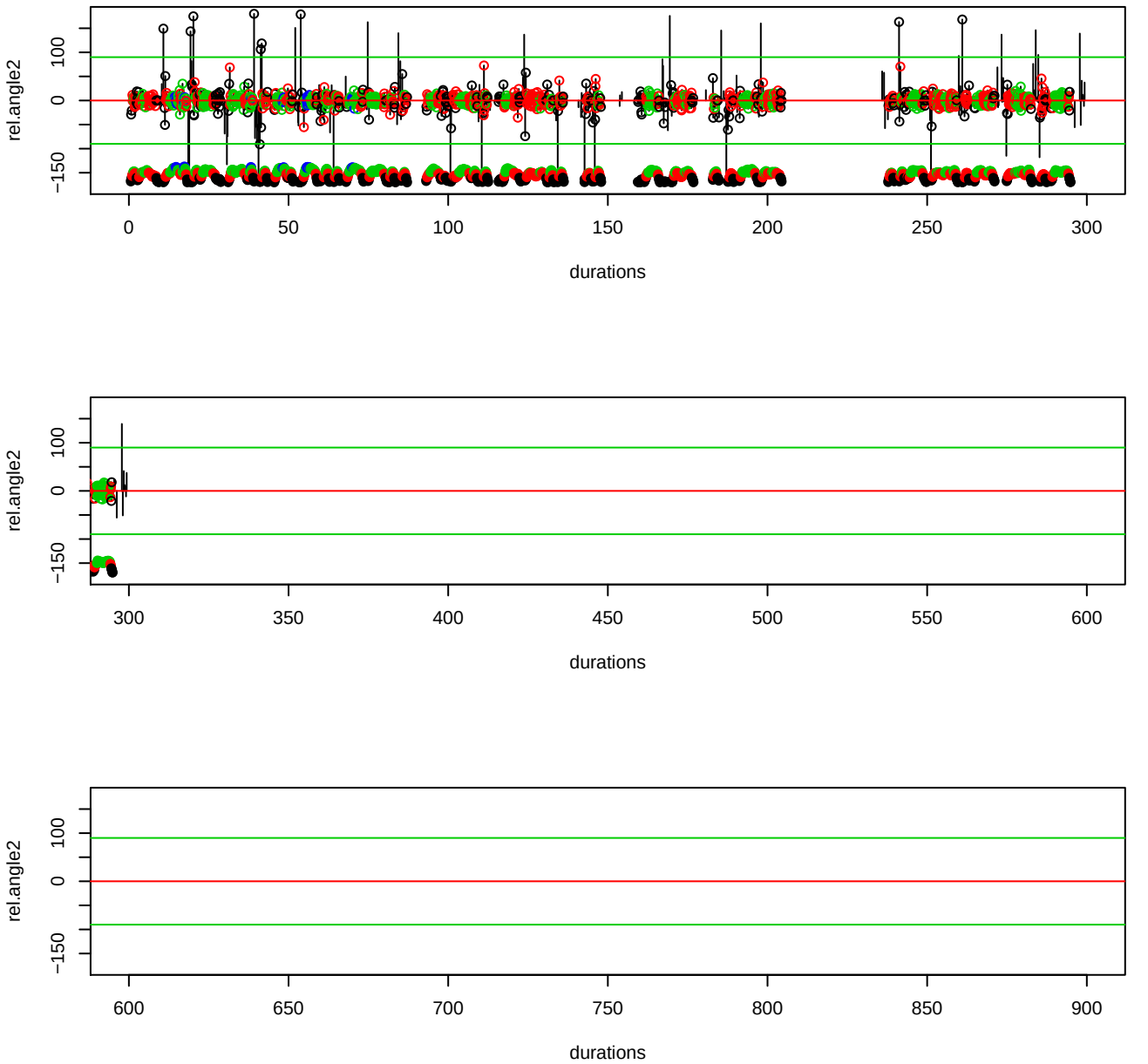

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

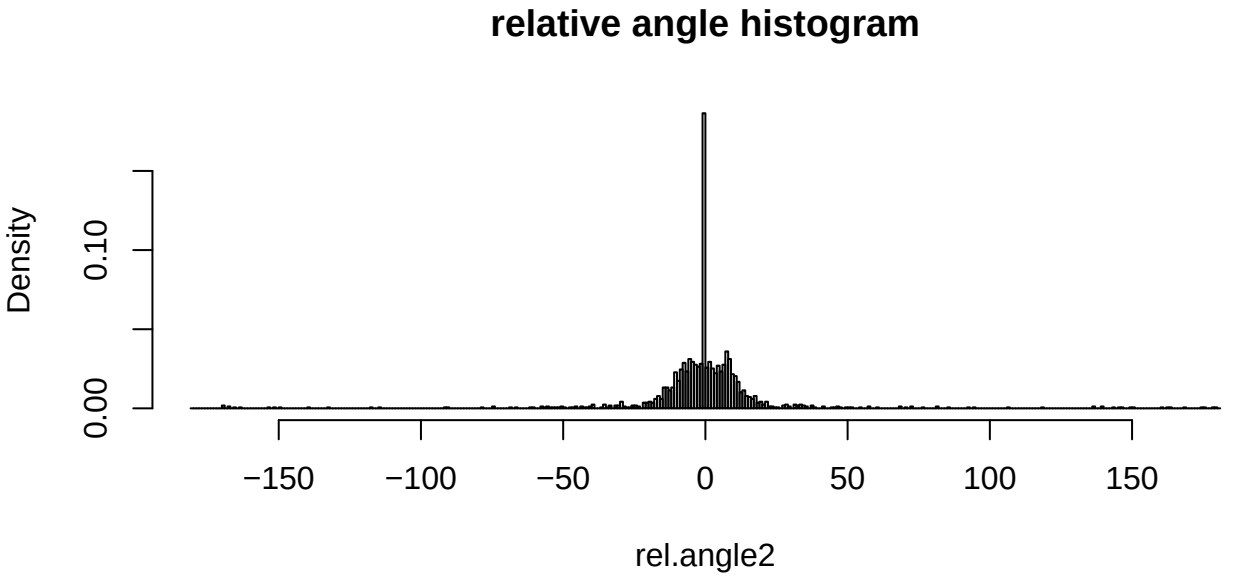

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

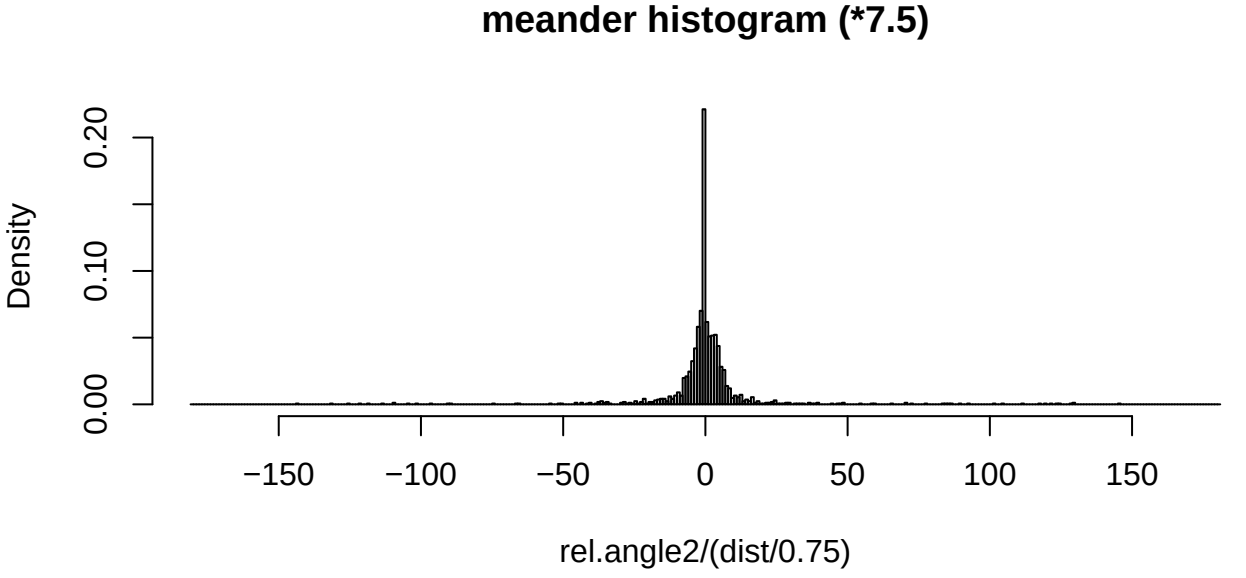

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

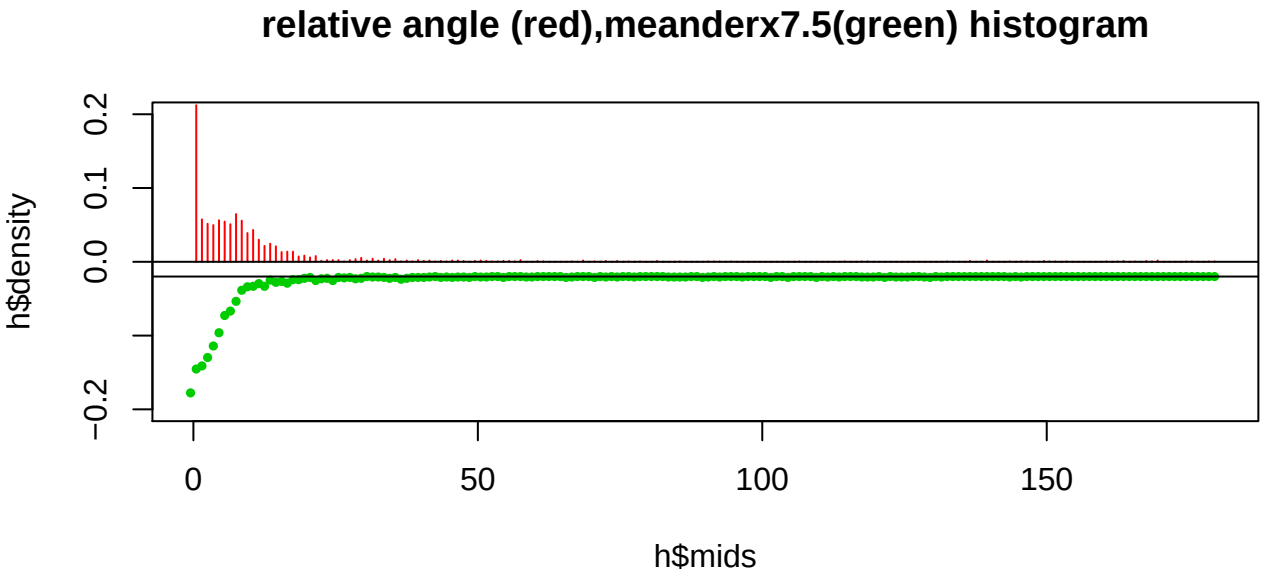

speed average per sec: 108_CSBVS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

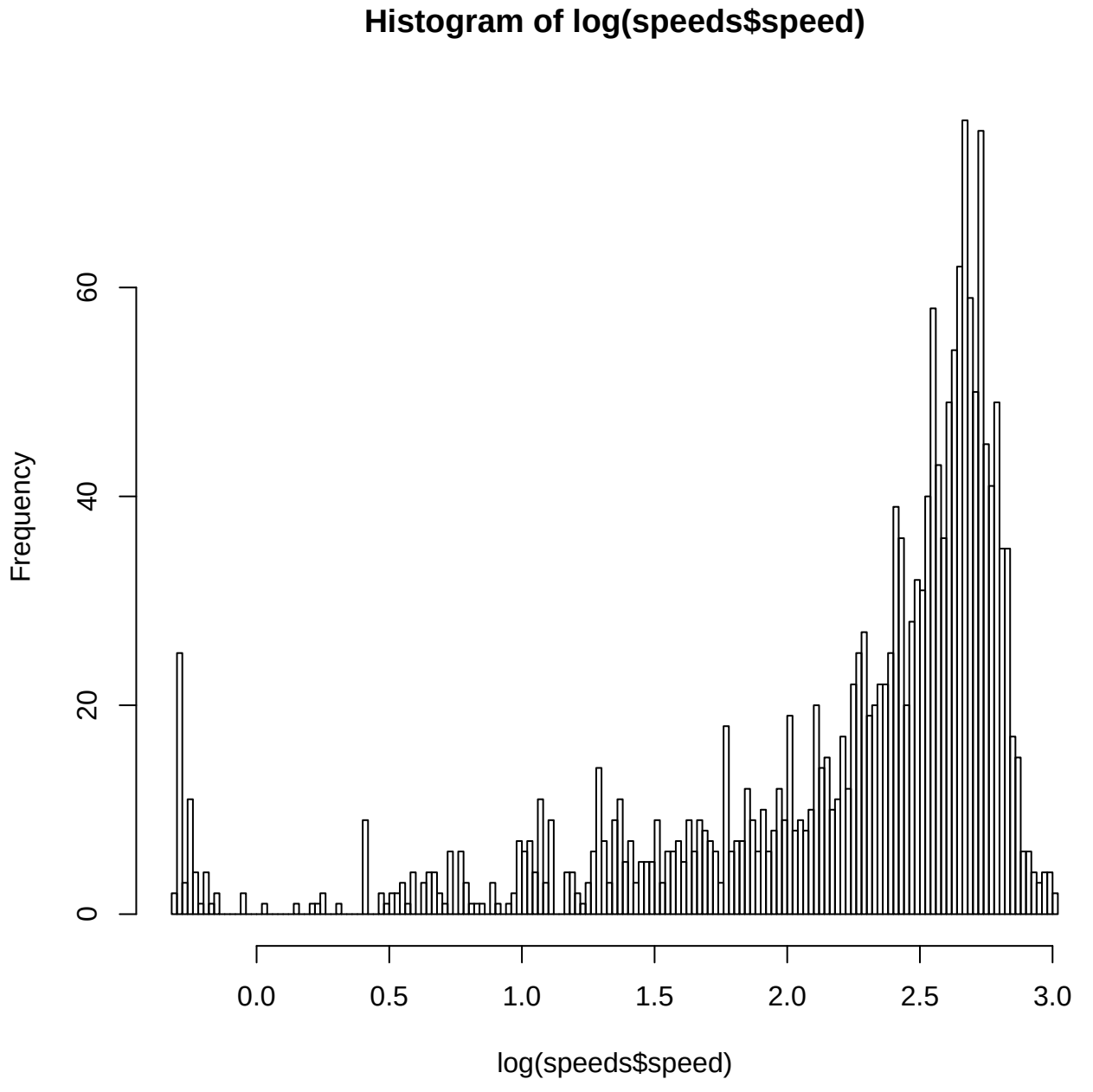

speed average per sec: 108_CSBVS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

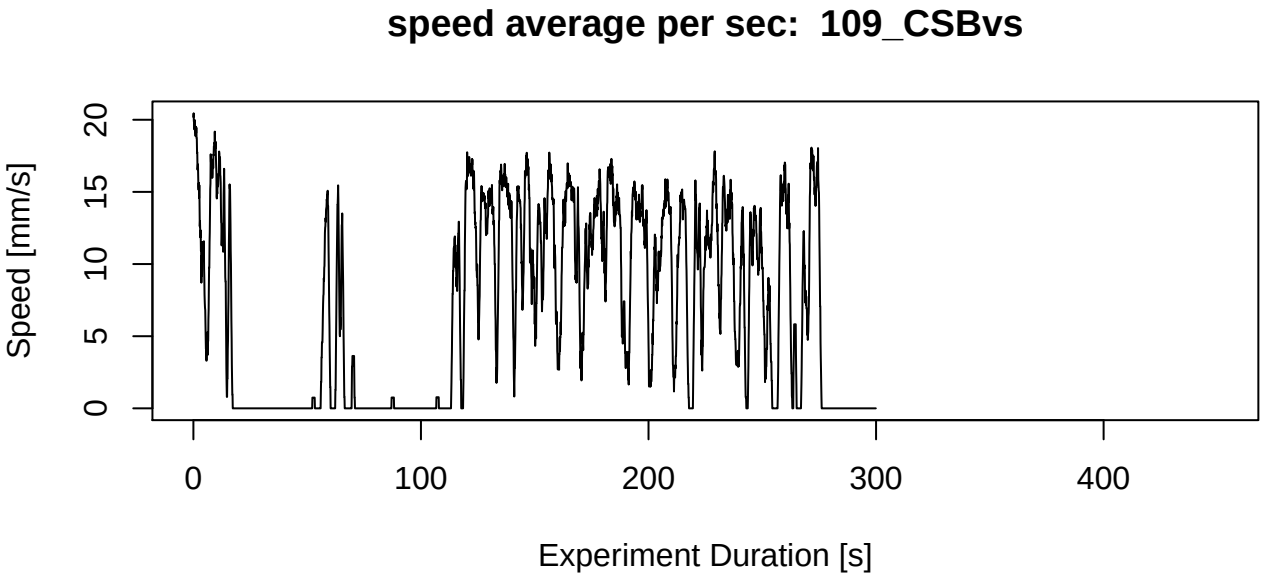

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

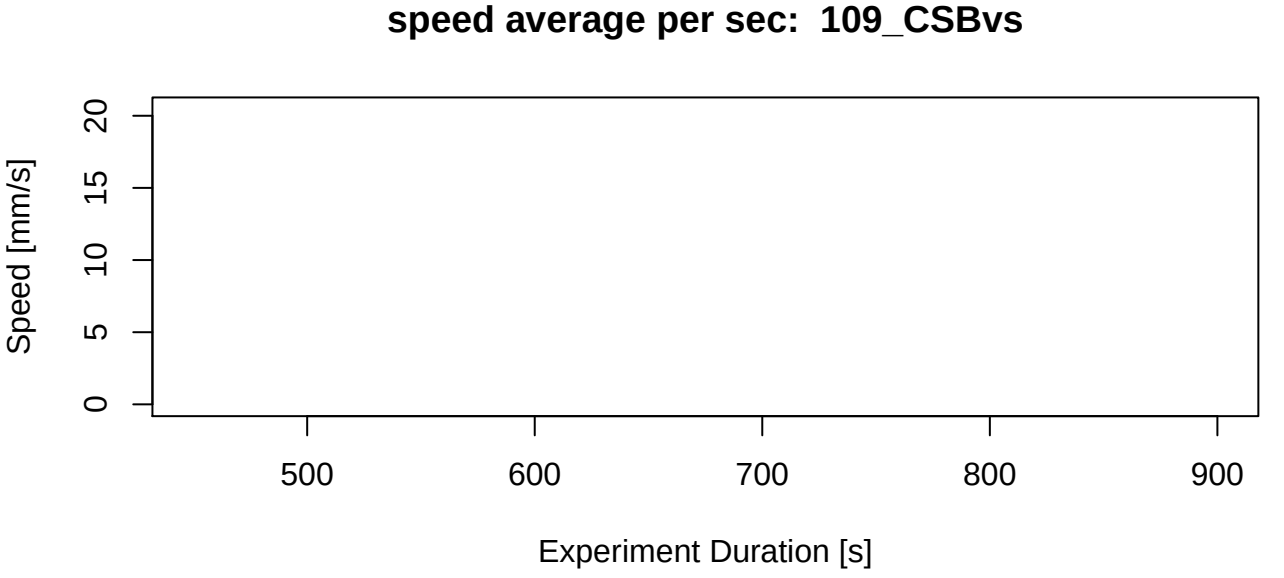

relative angle histogram
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2

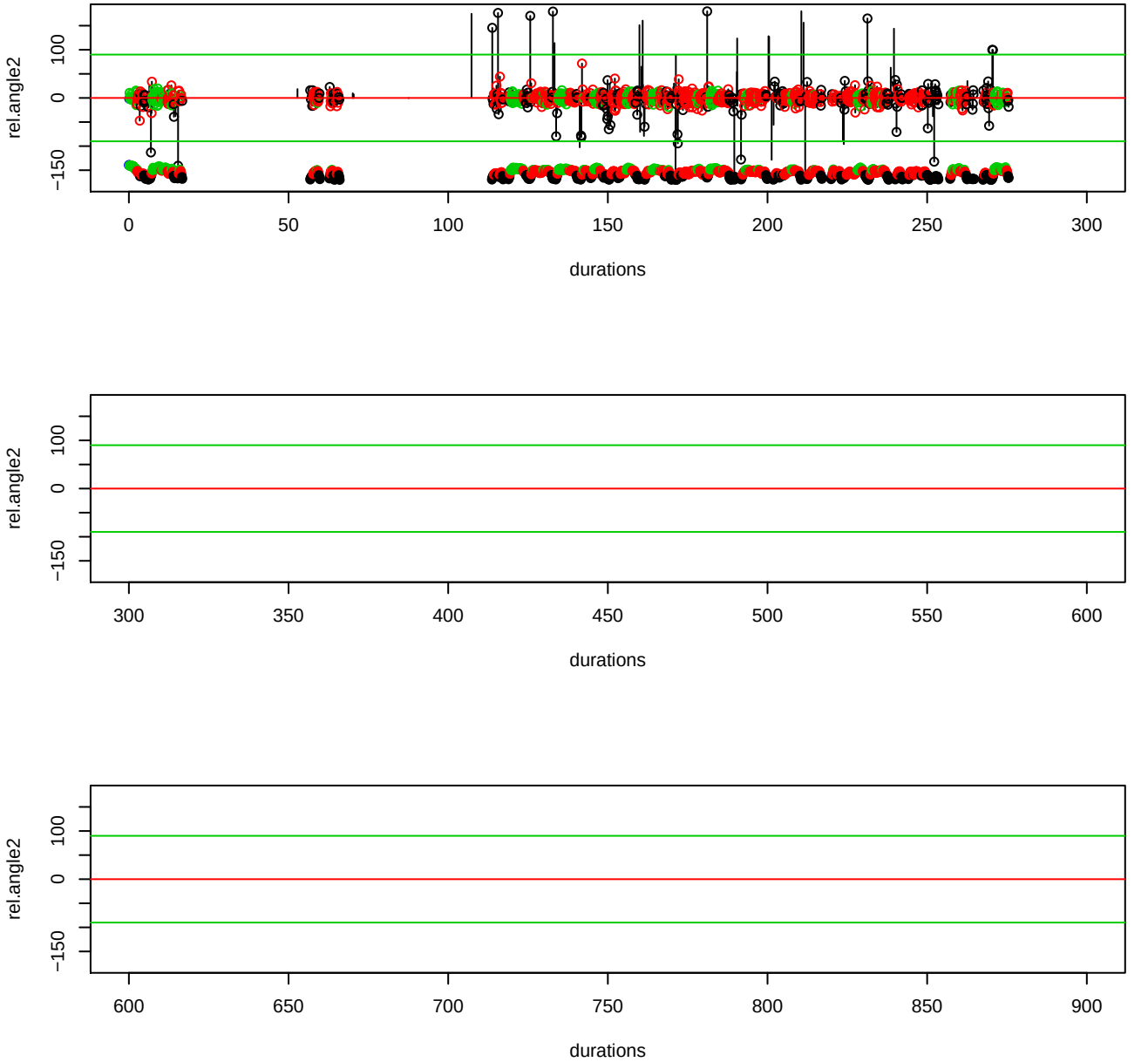

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

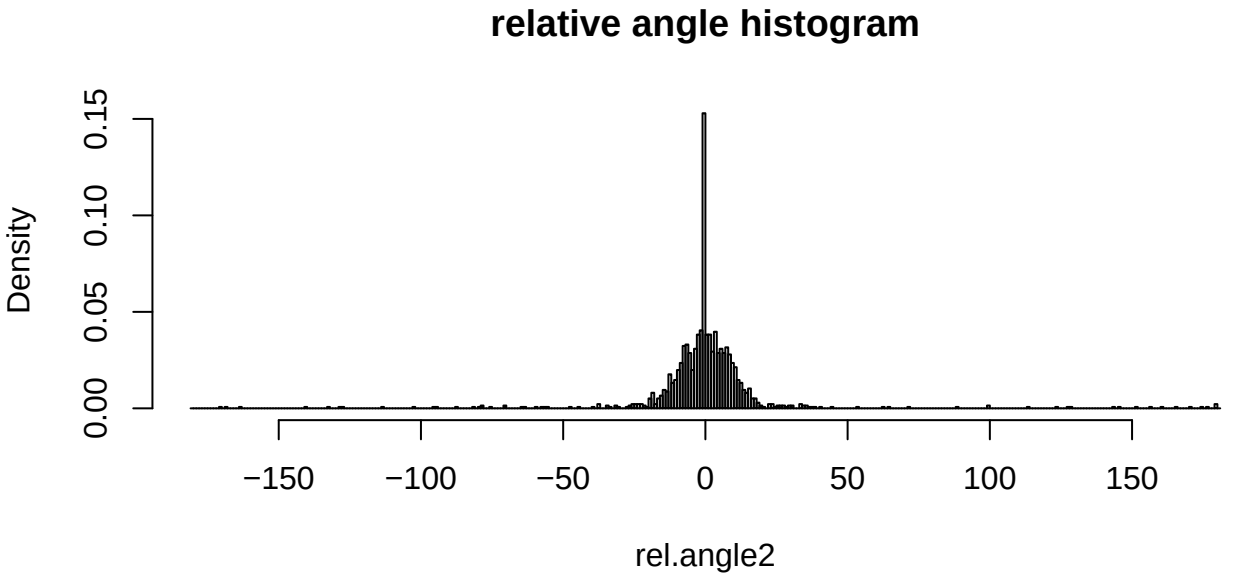

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

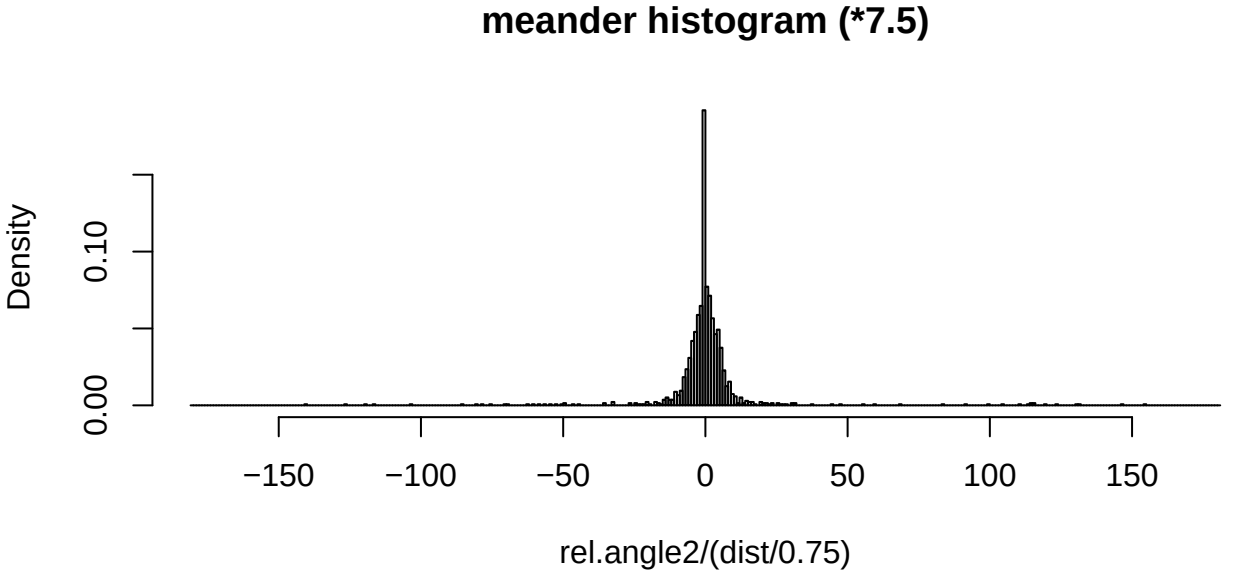

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

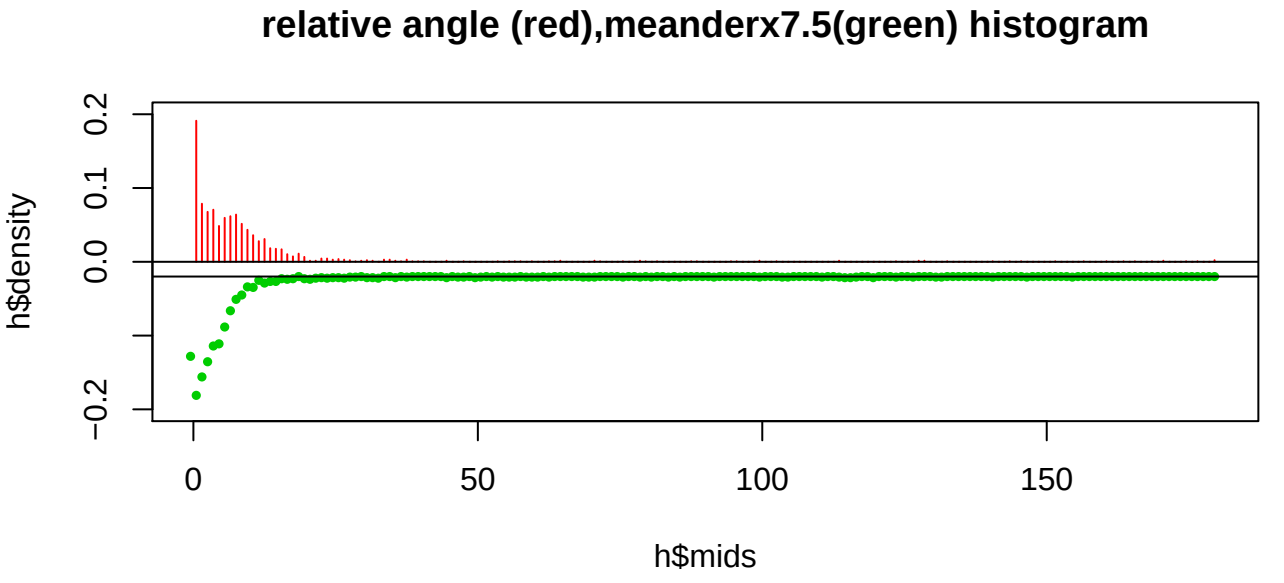

speed average per sec: 109_CSBvs
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

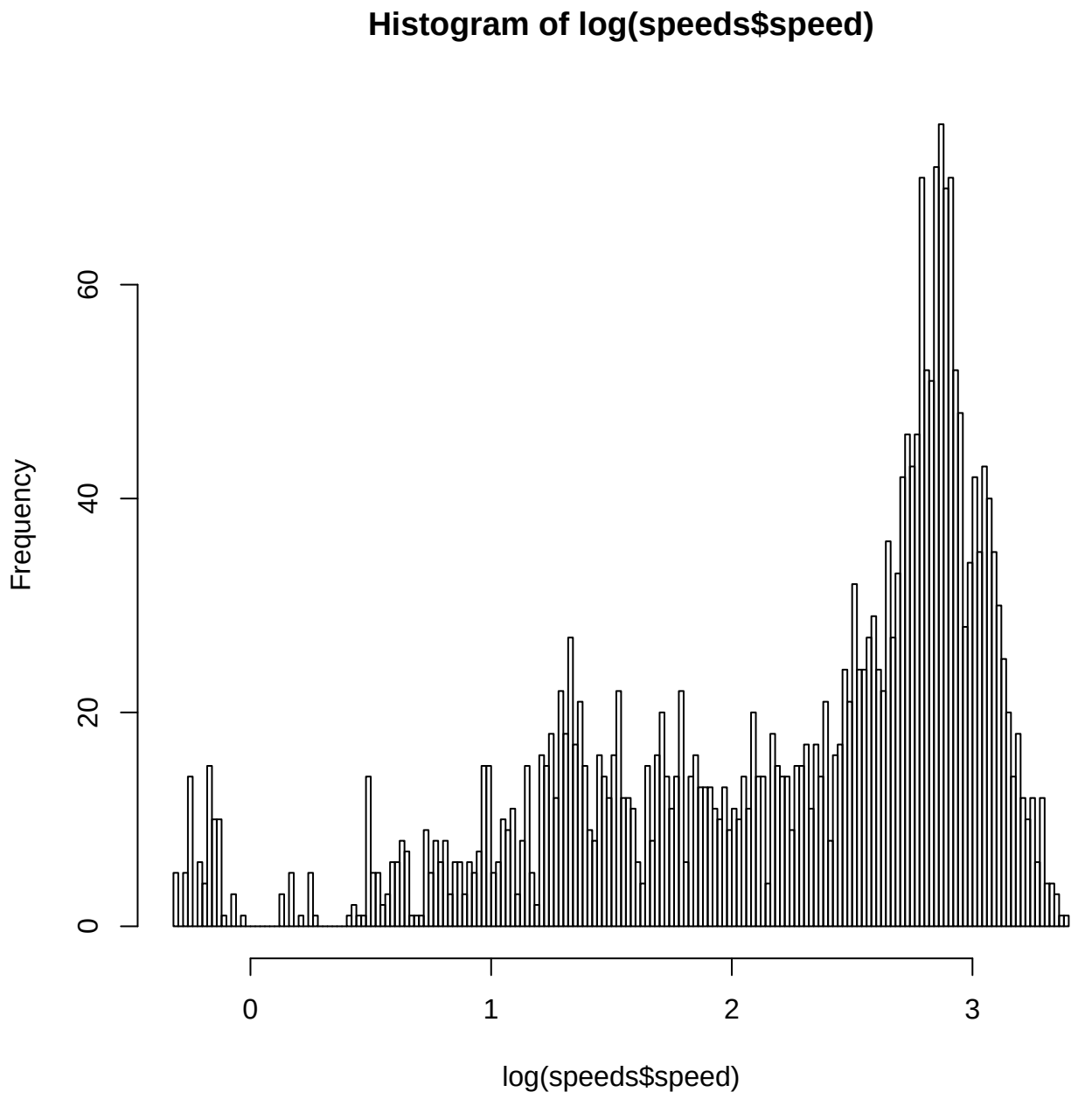

speed average per sec: 109_CSBvs
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

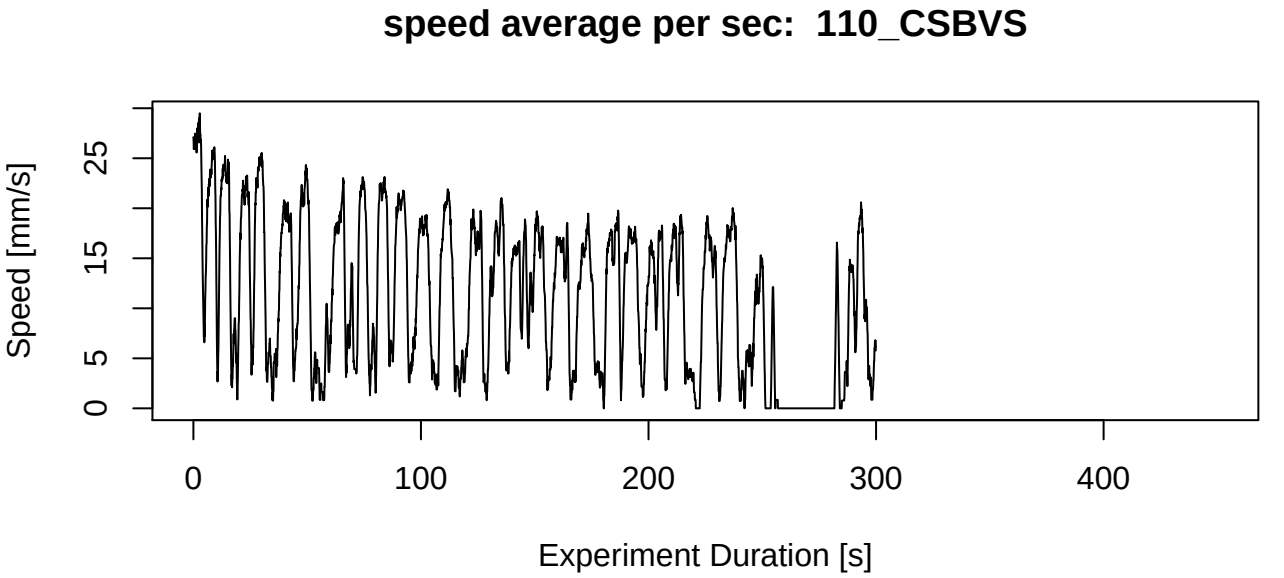

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

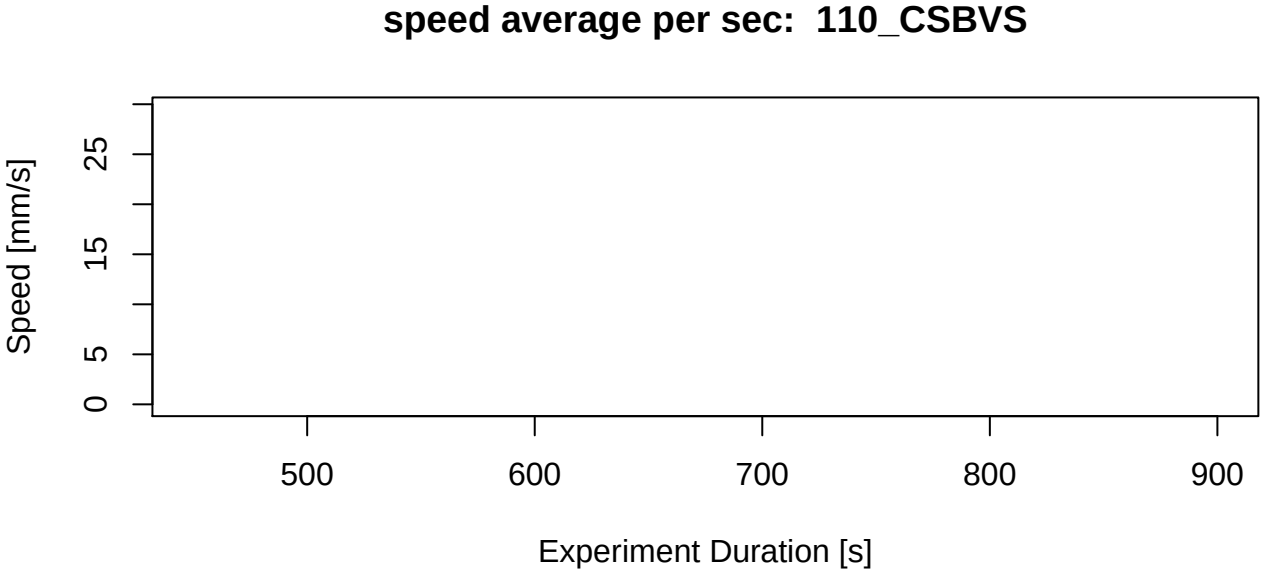

relative angle histogram
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2

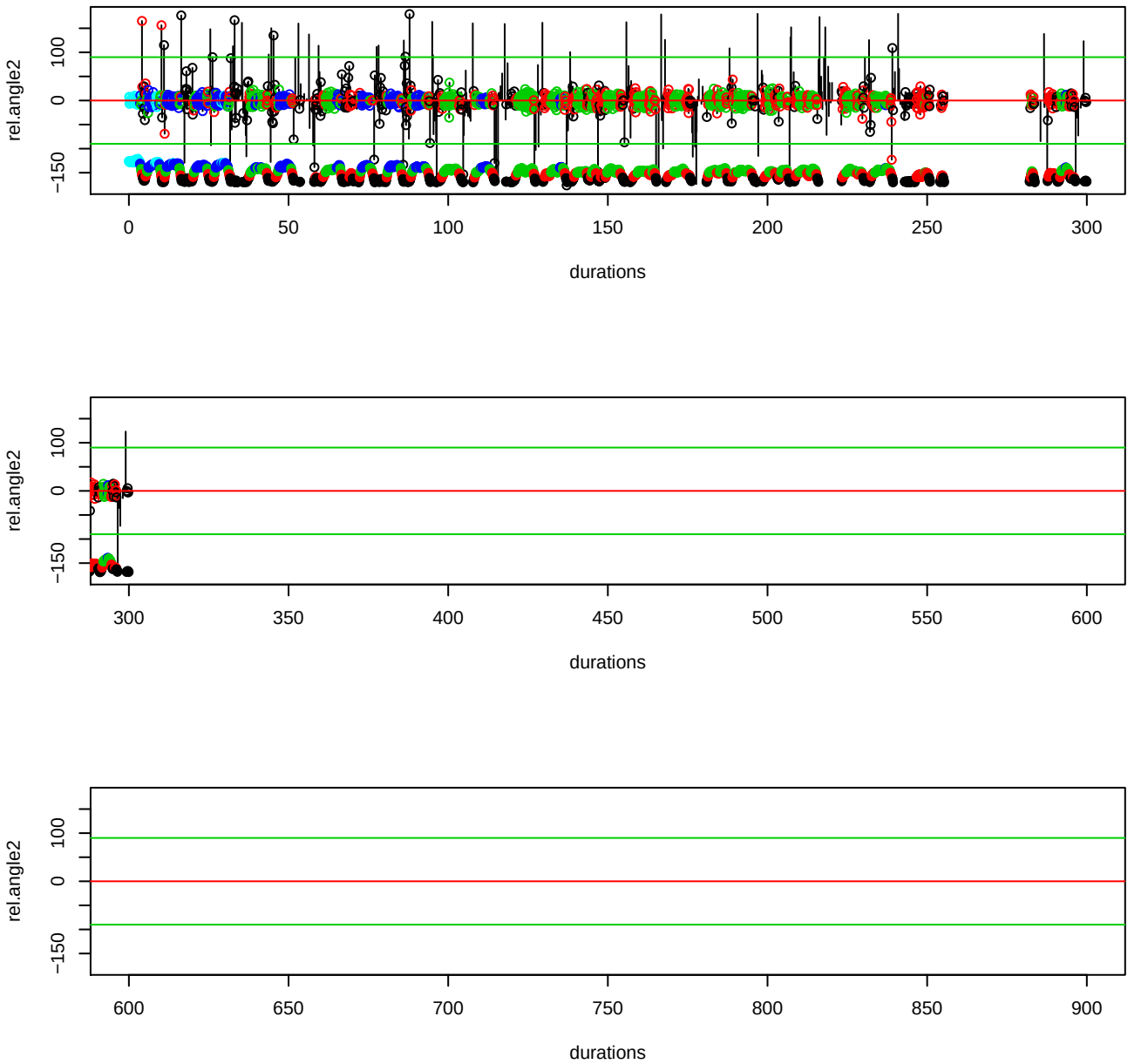

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

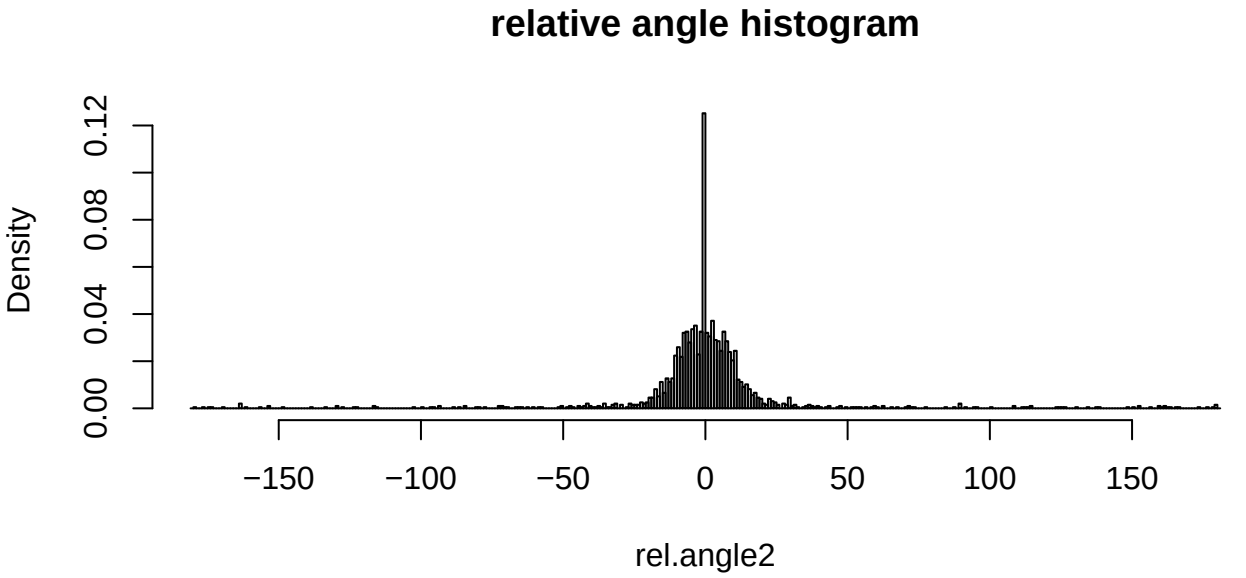

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

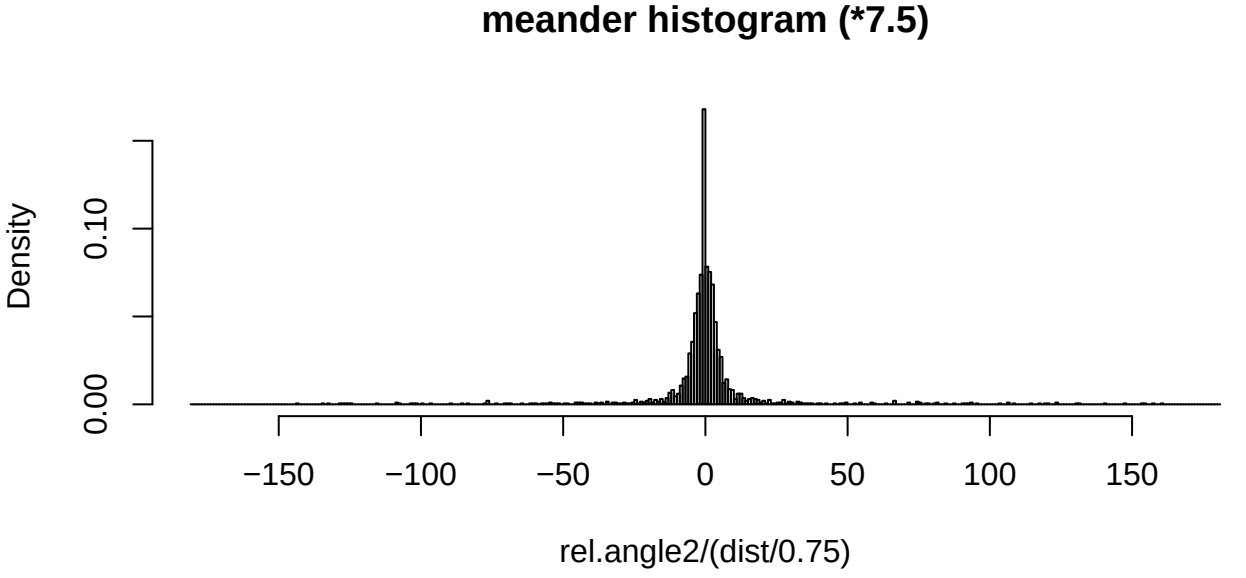

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0
1
2
3
log(speeds$speed)

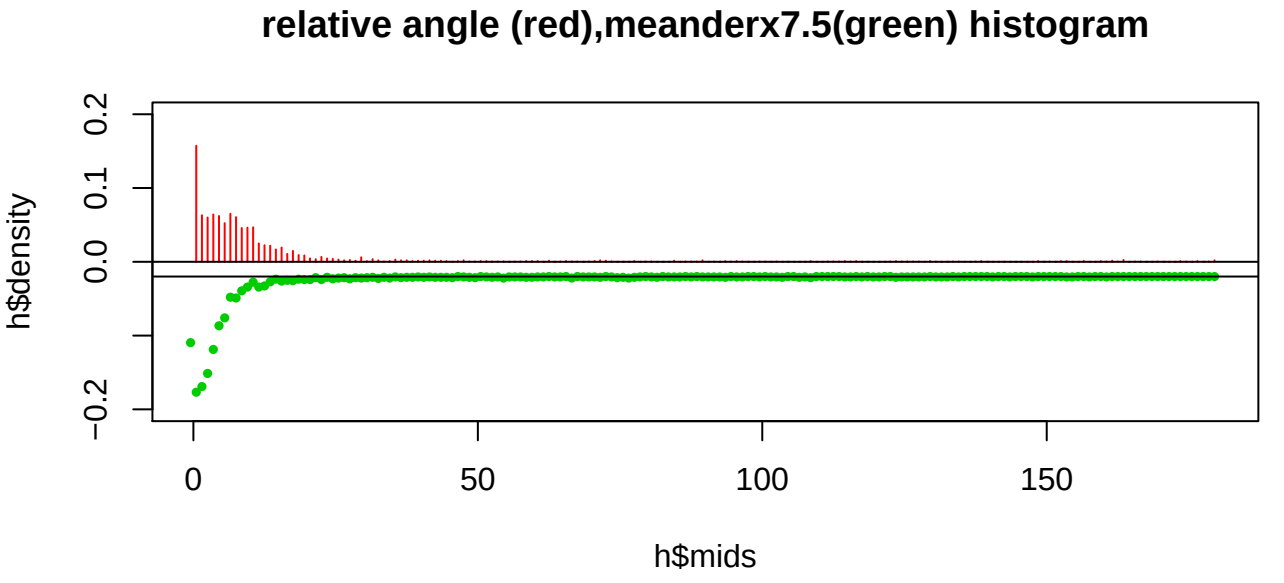

speed average per sec: 110_CSBVS
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

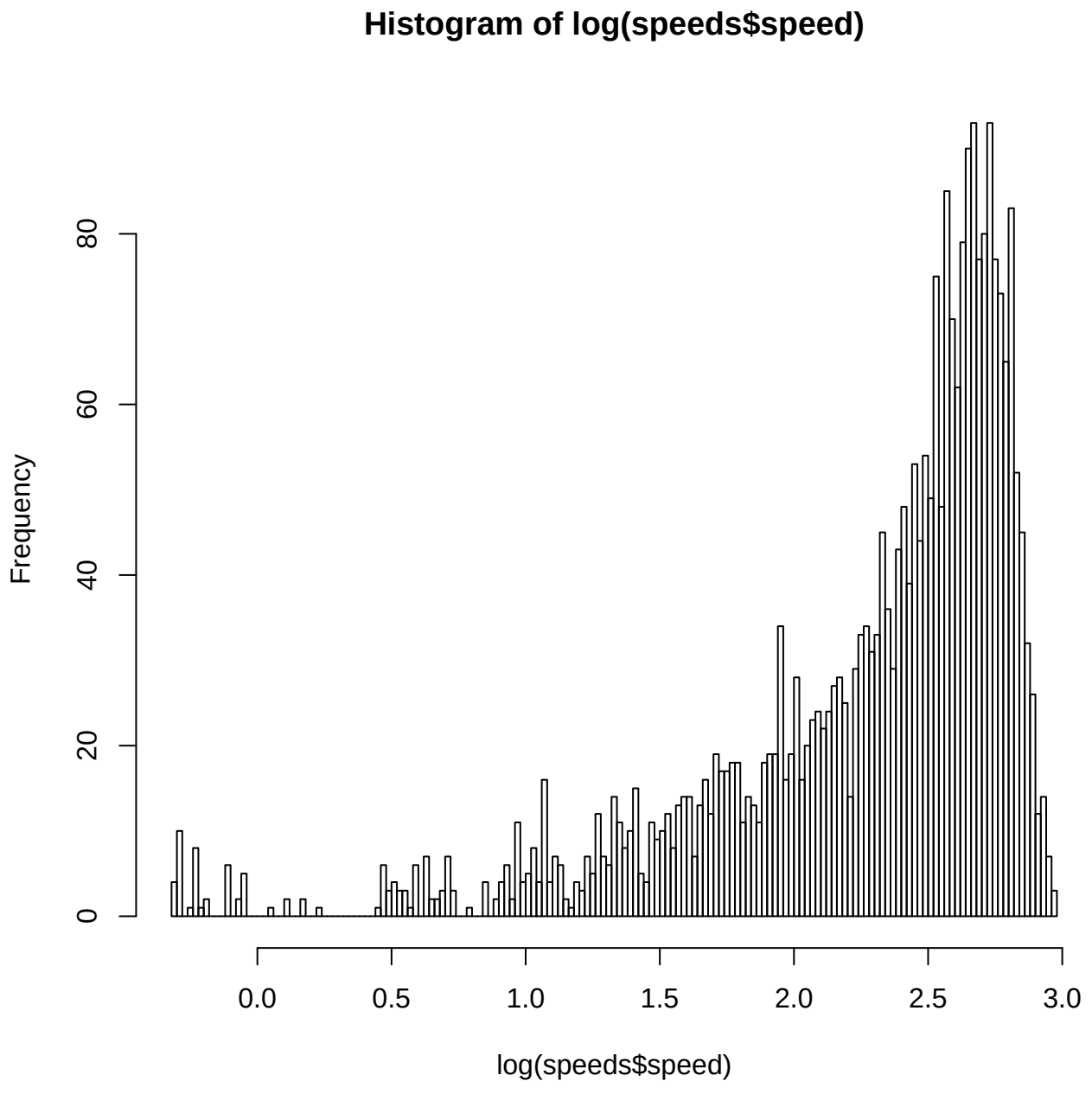

speed average per sec: 110_CSBVS
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

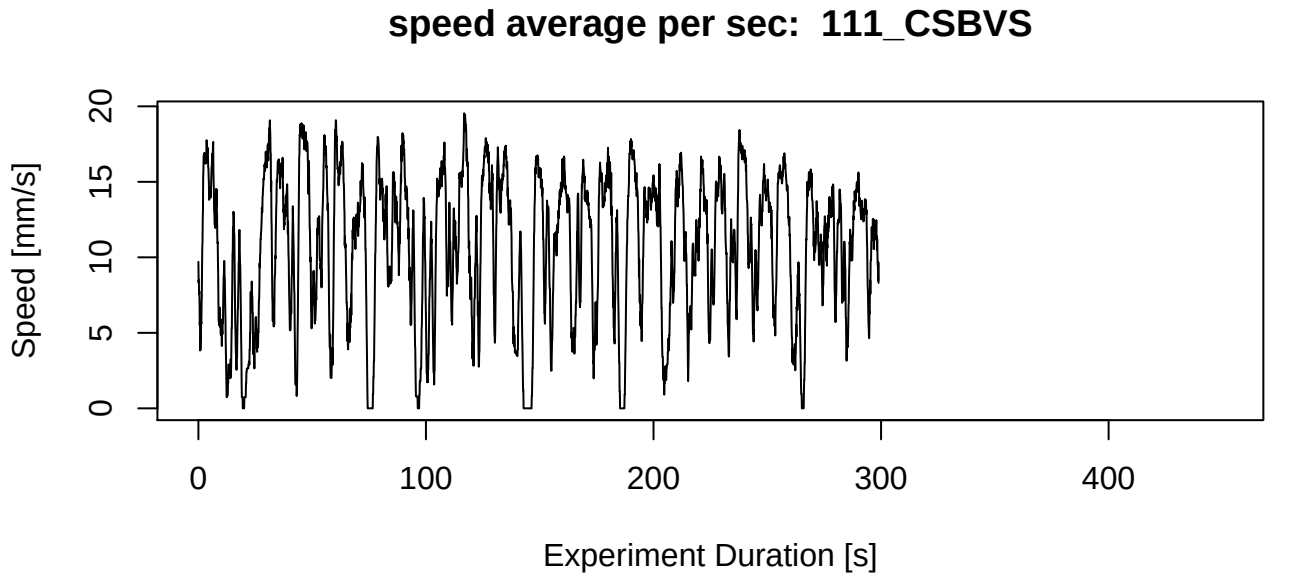

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

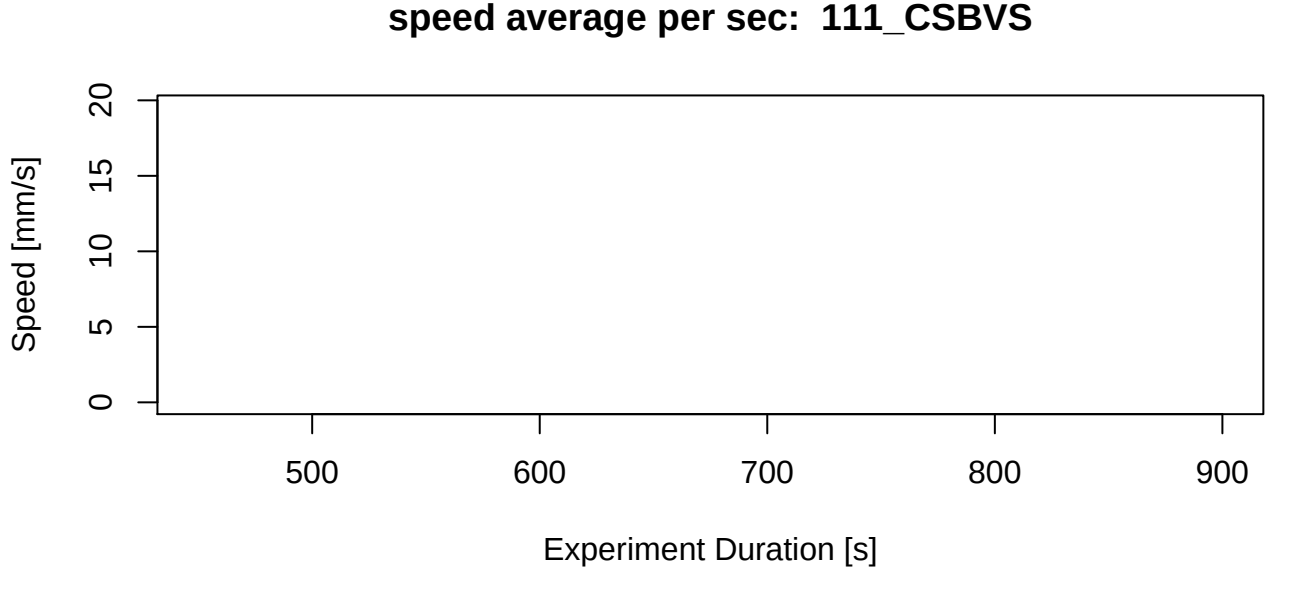

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

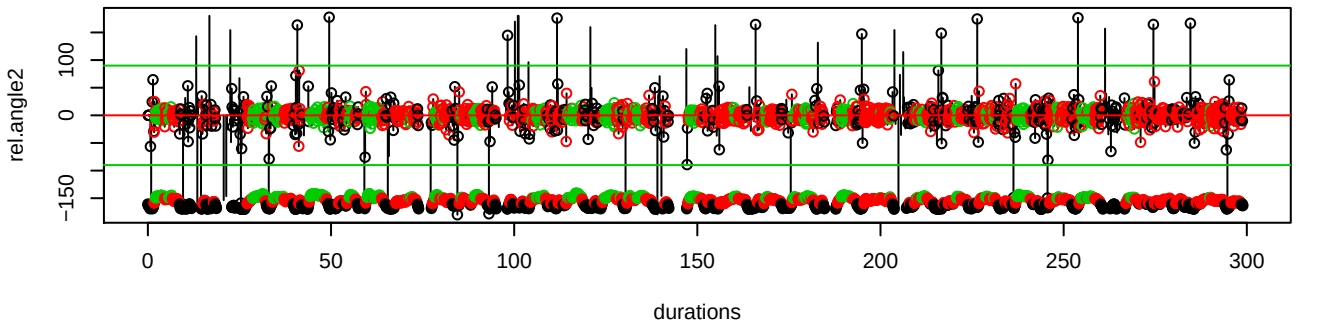

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

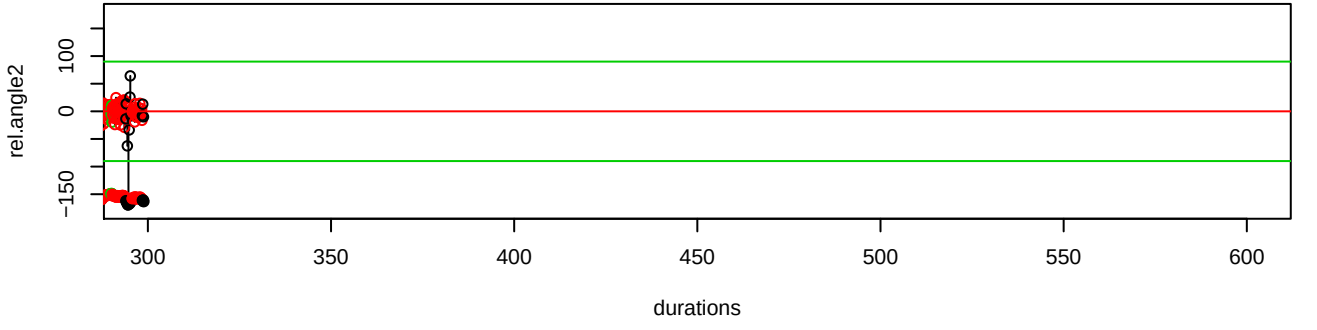

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

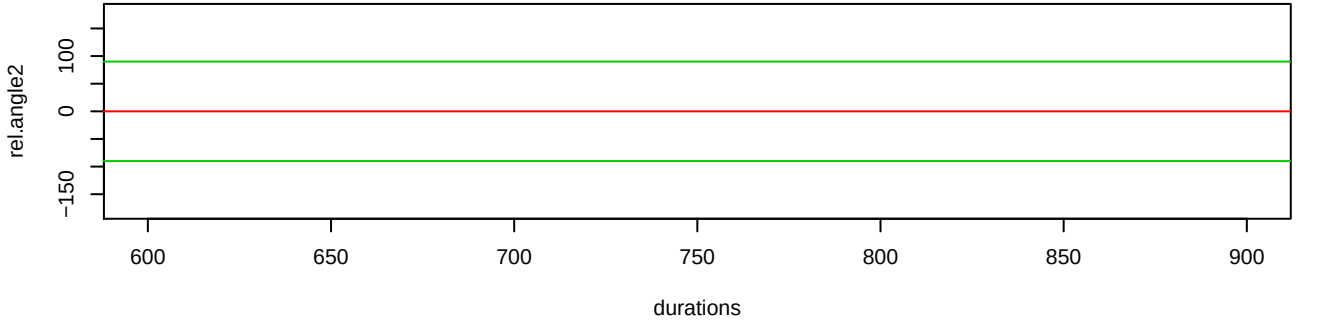

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

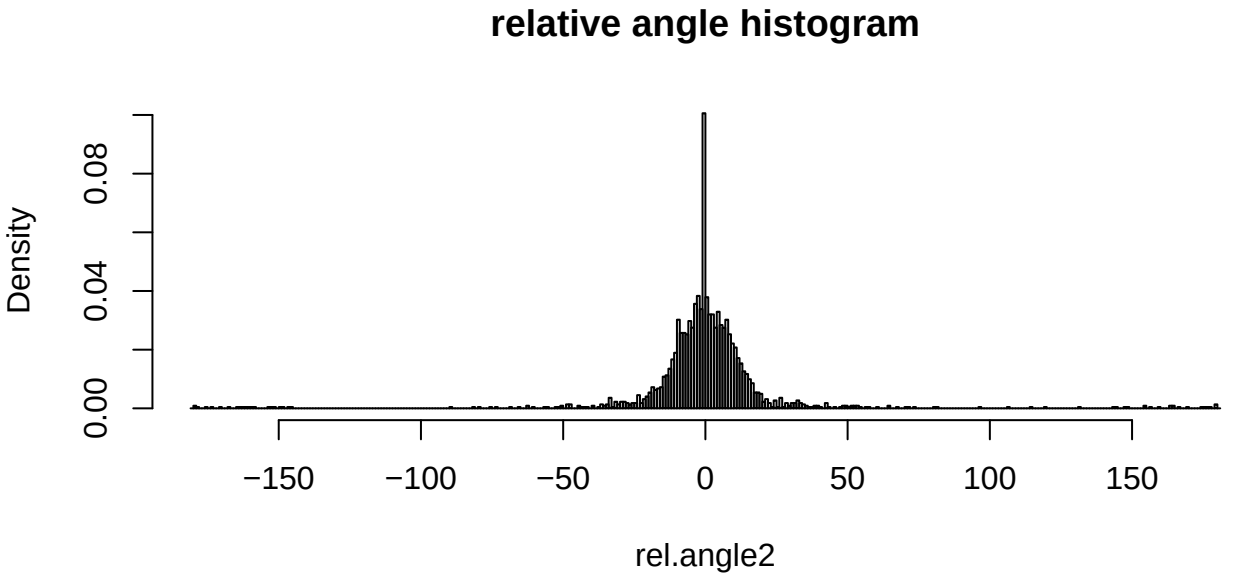

speed average per sec: 111_CSBVS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

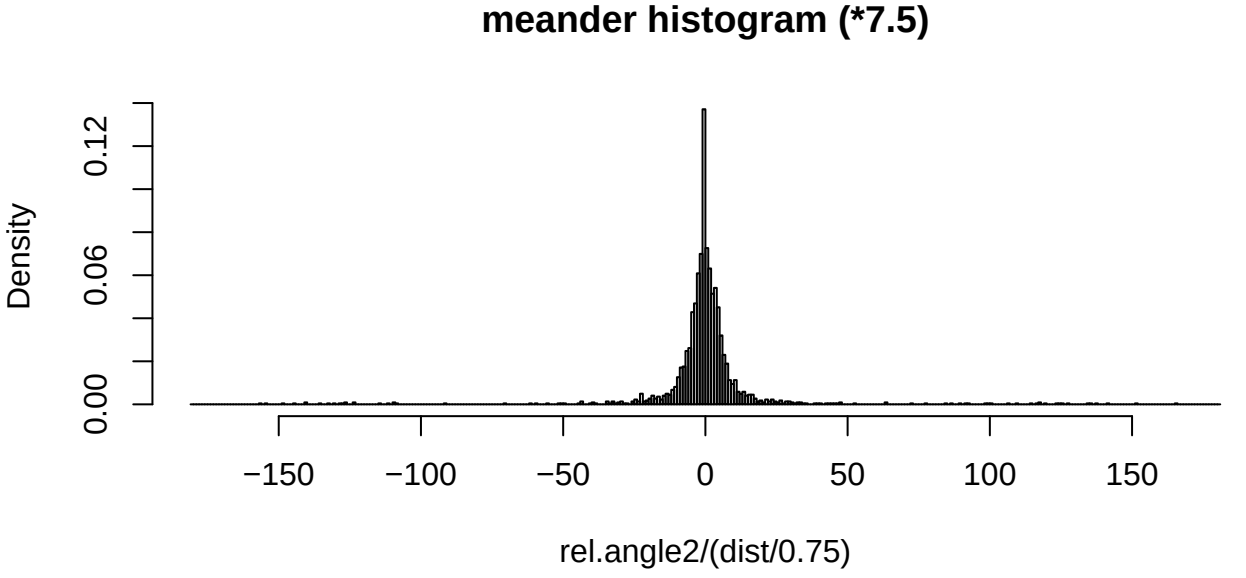

speed average per sec: 111_CSBVS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

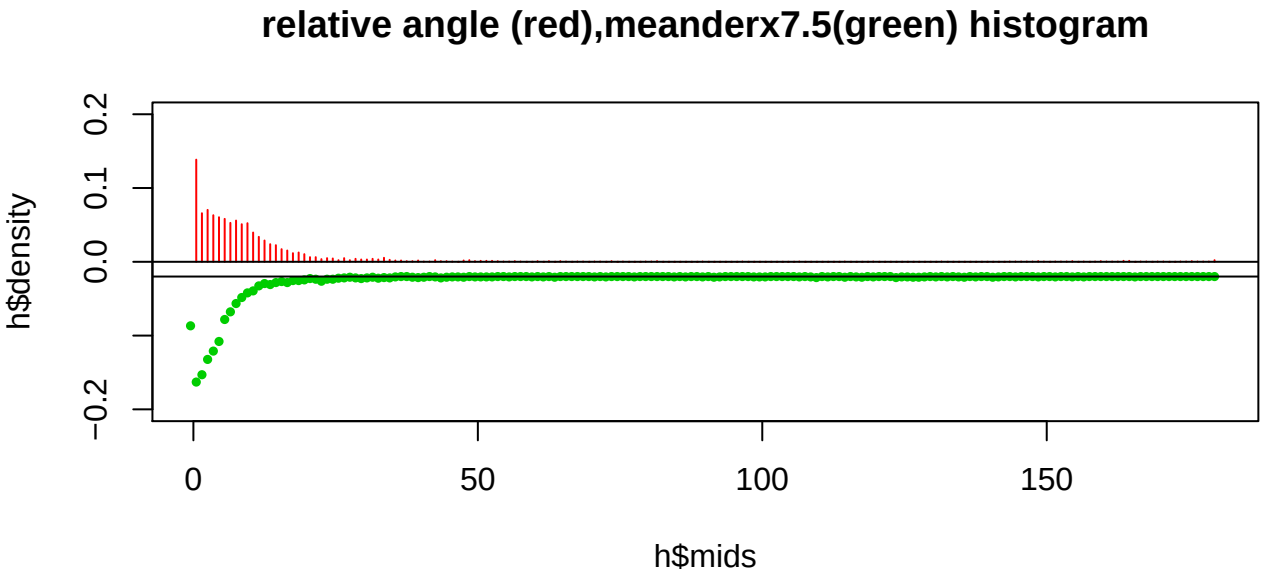

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

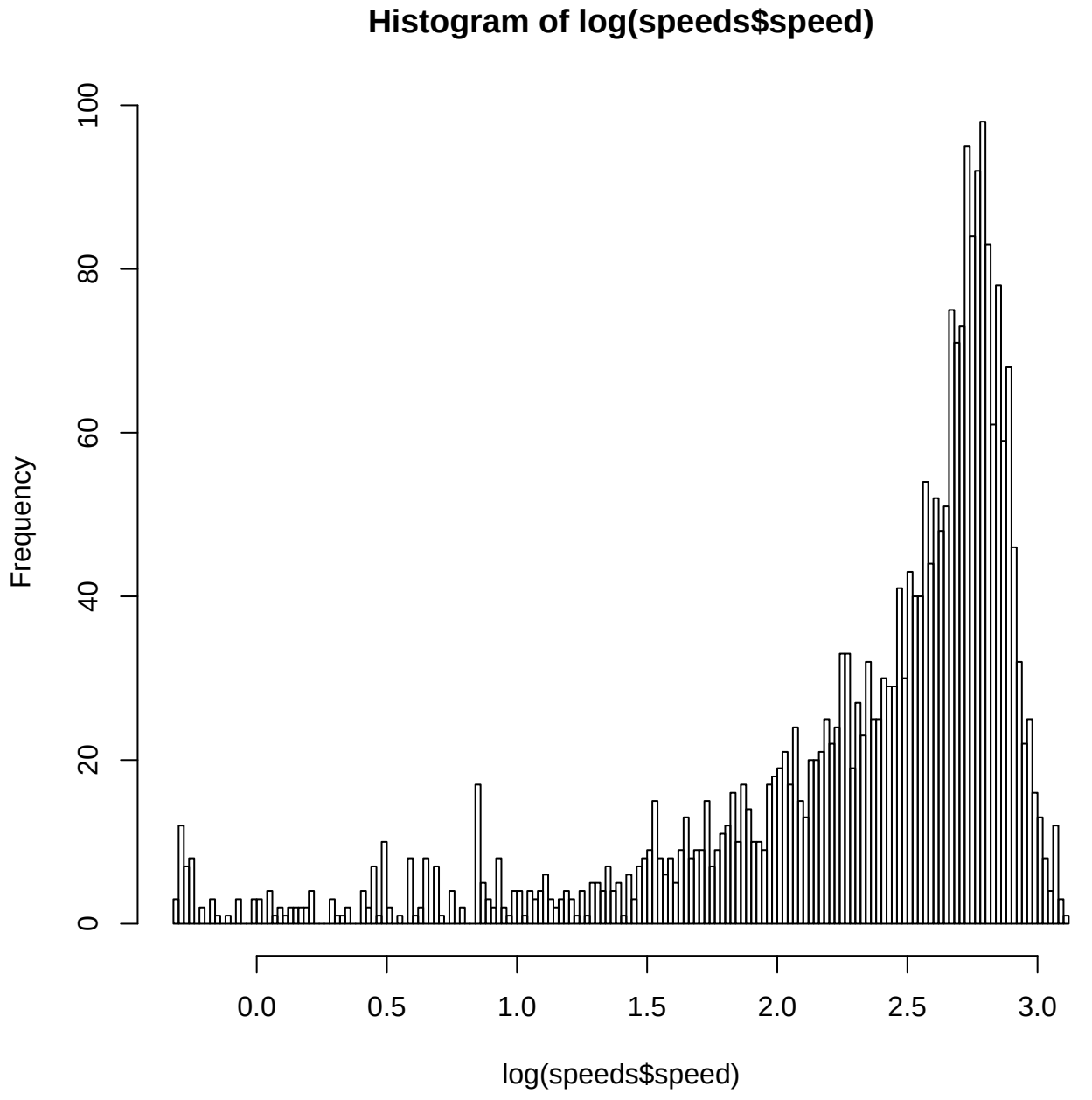

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

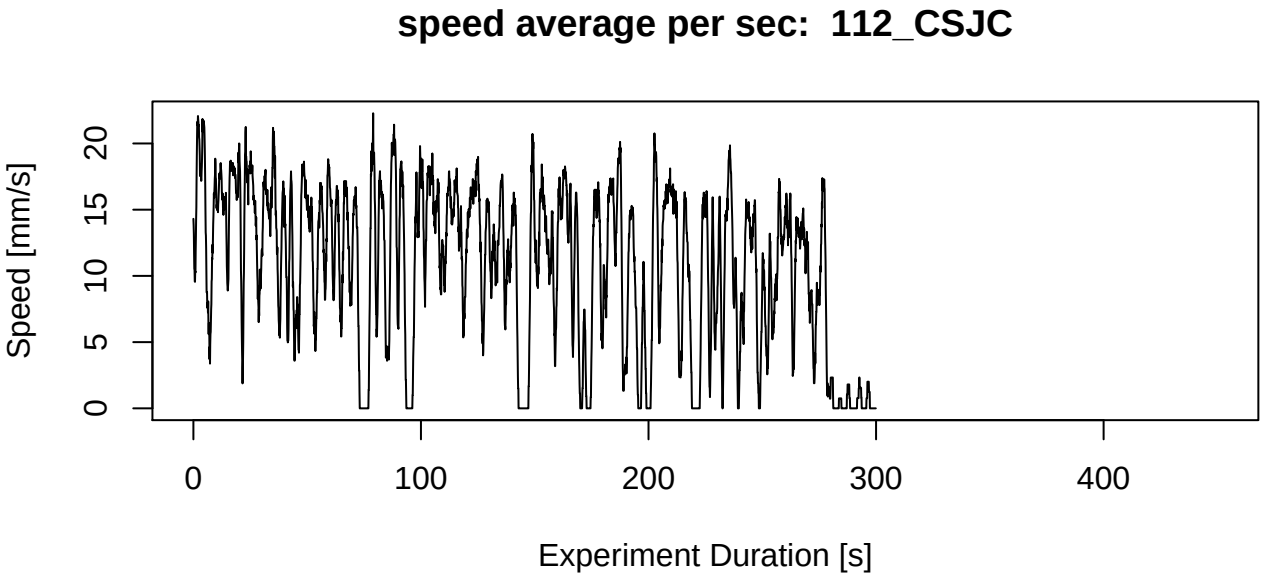

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

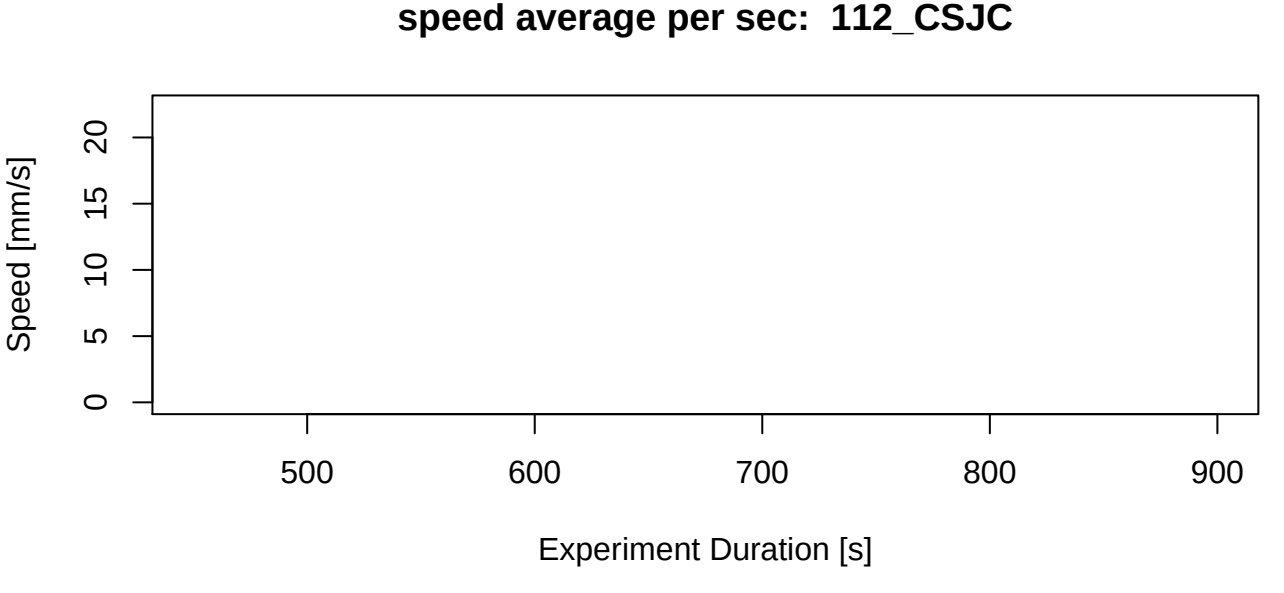

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

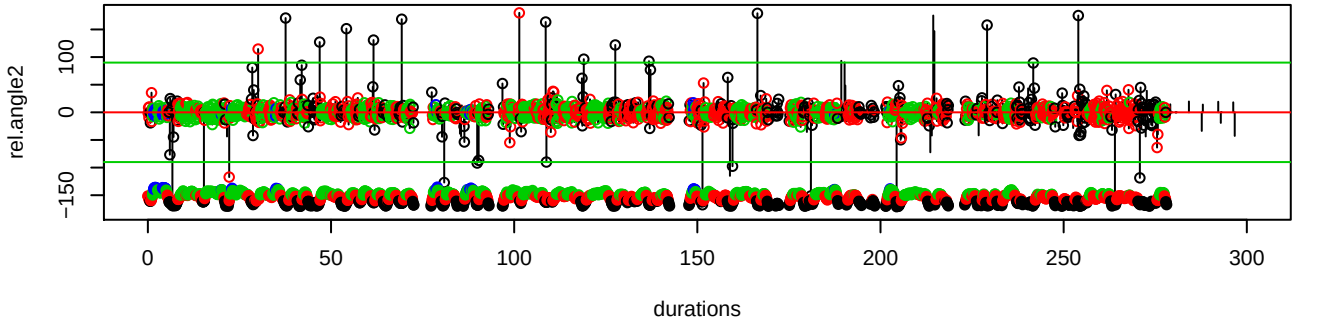

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

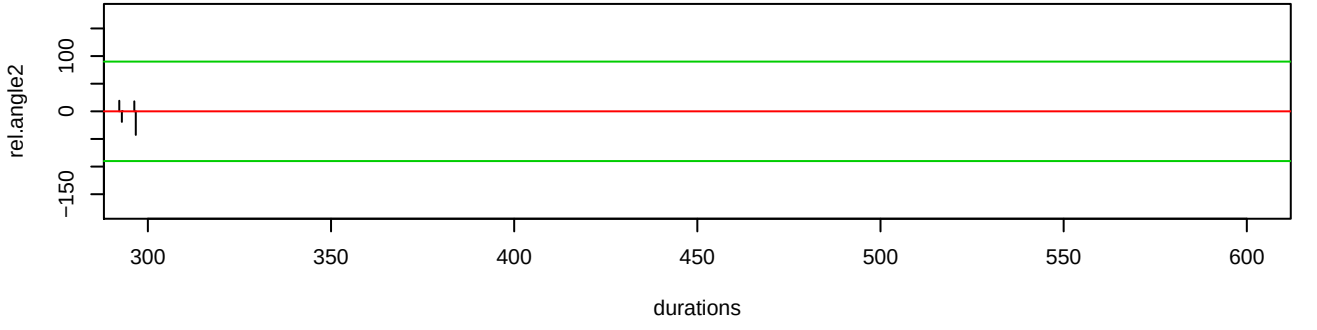

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

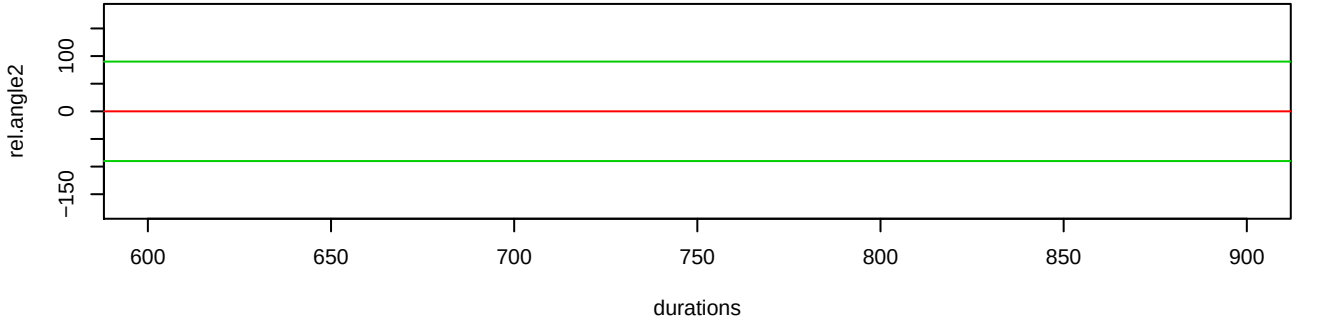

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

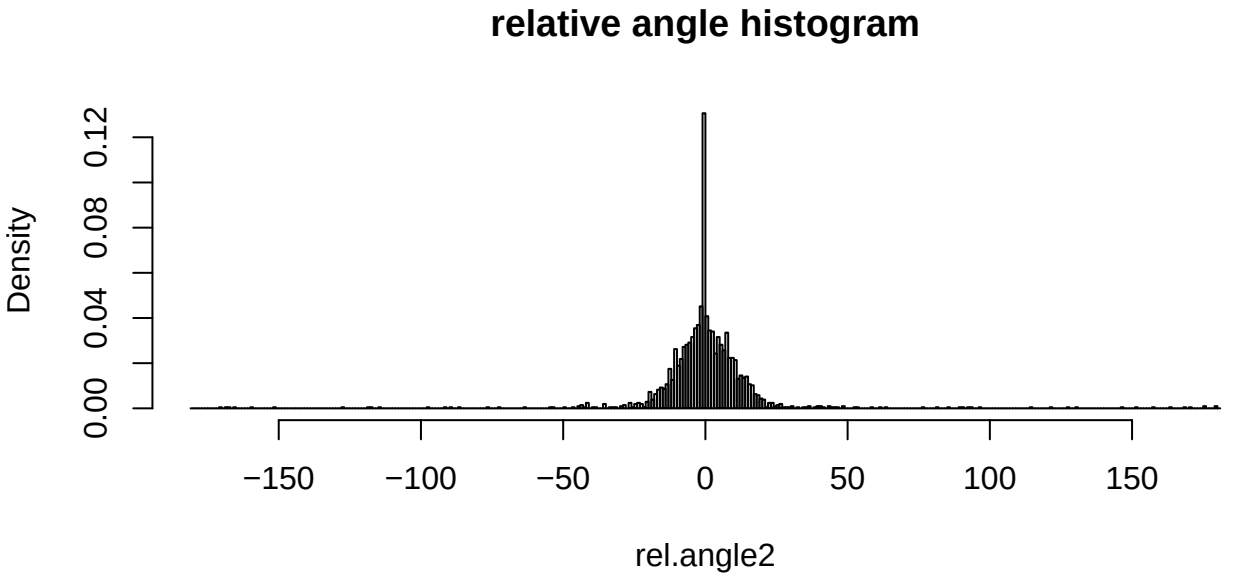

speed average per sec: 112_CSJC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

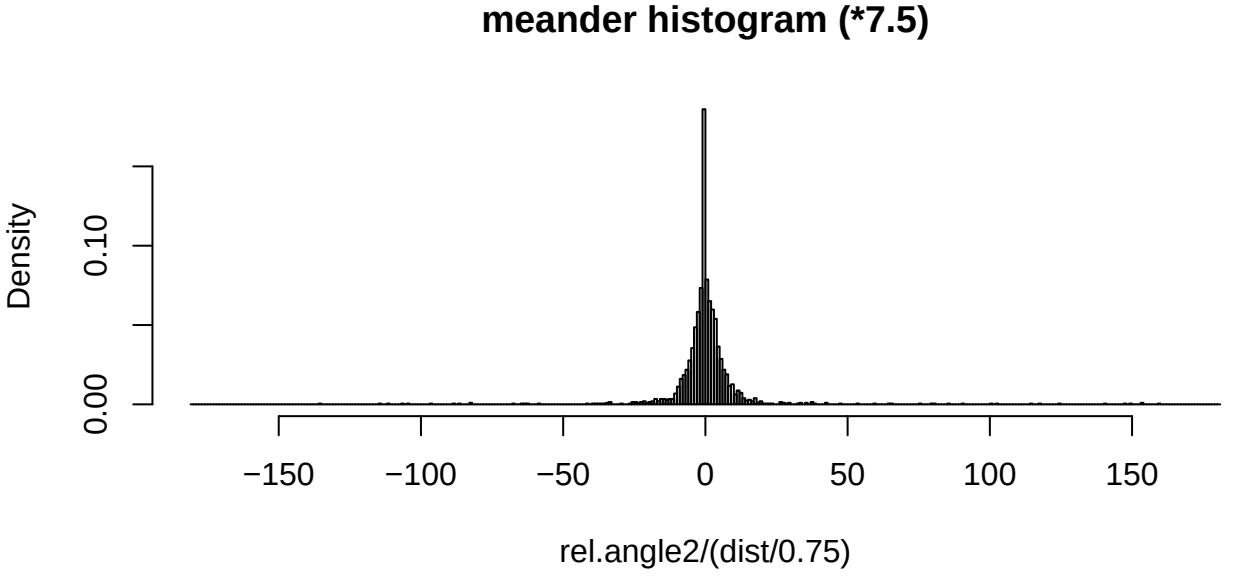

speed average per sec: 112_CSJC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

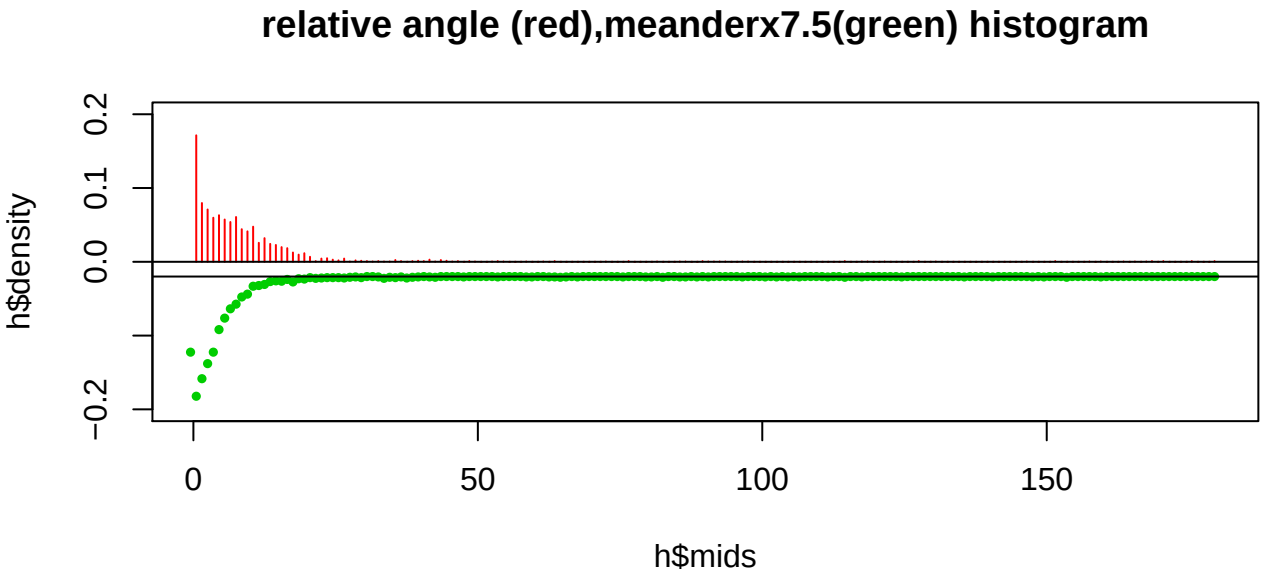

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

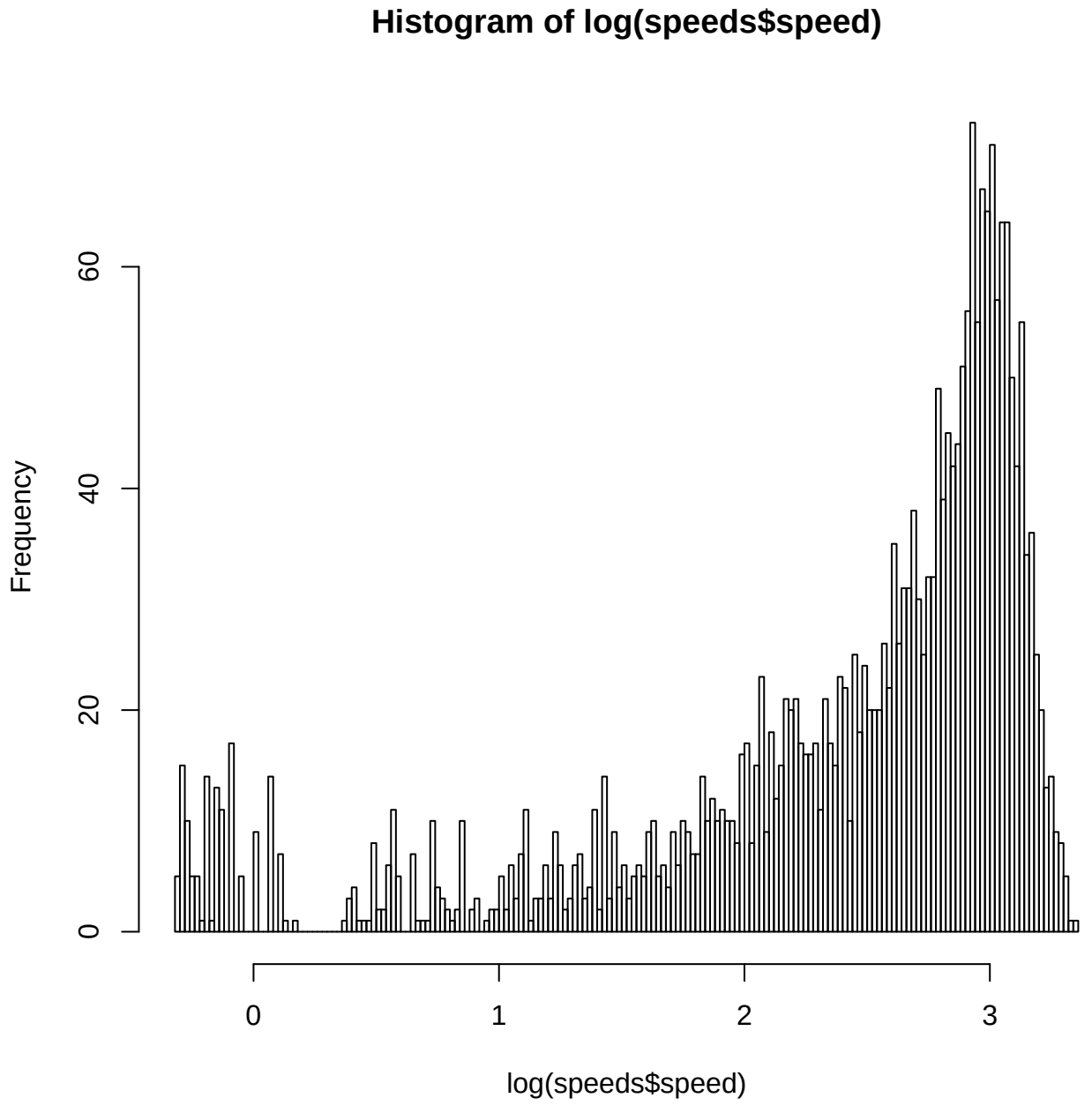

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

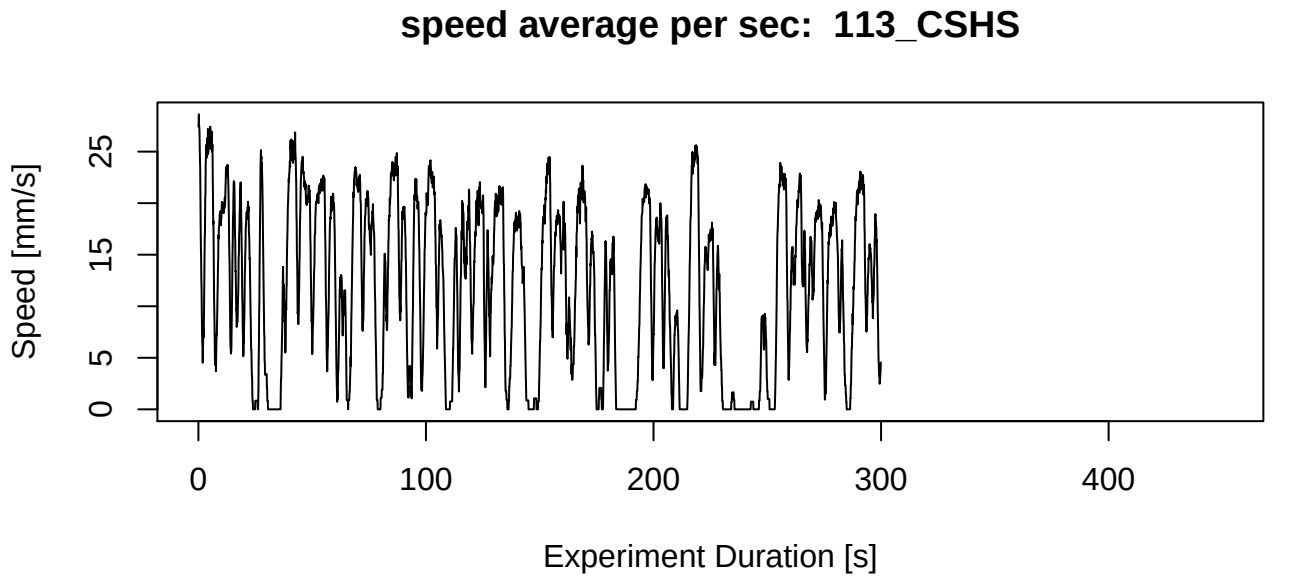

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

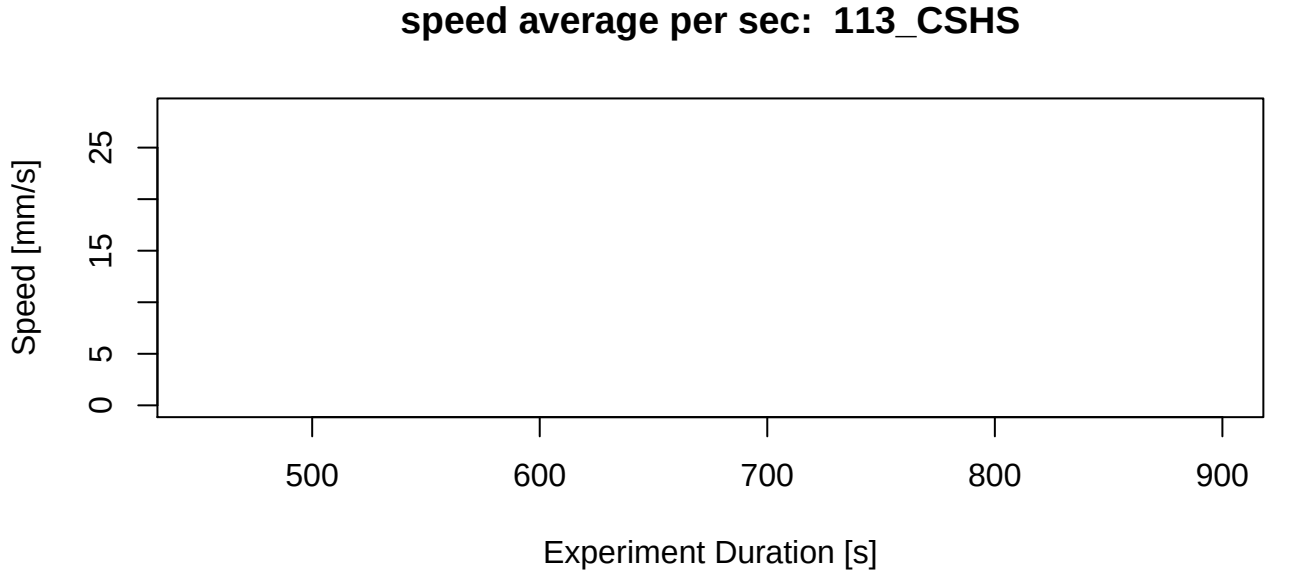

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

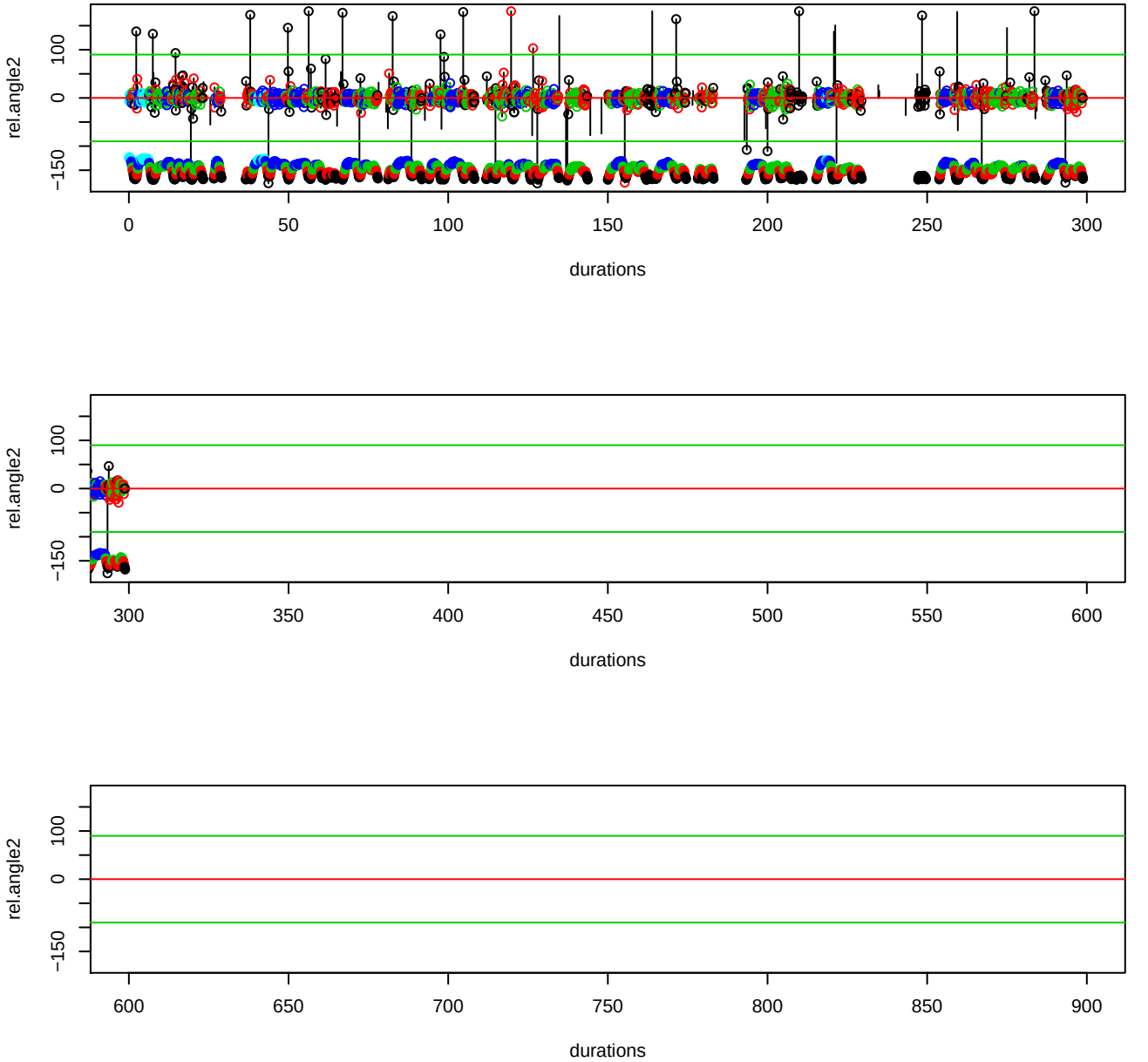

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

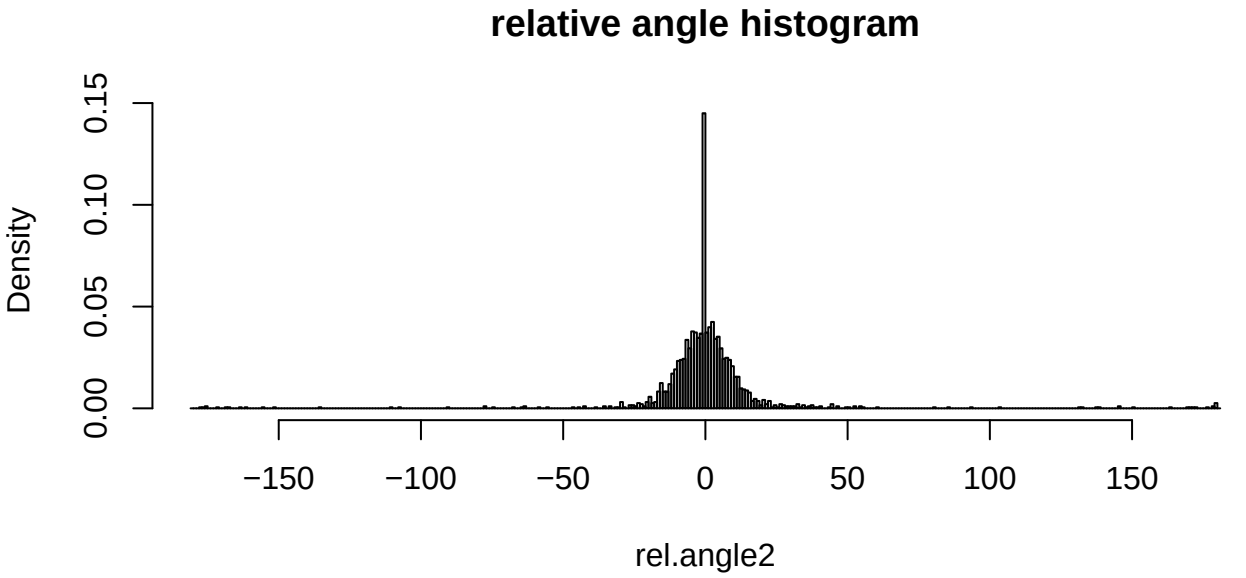

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

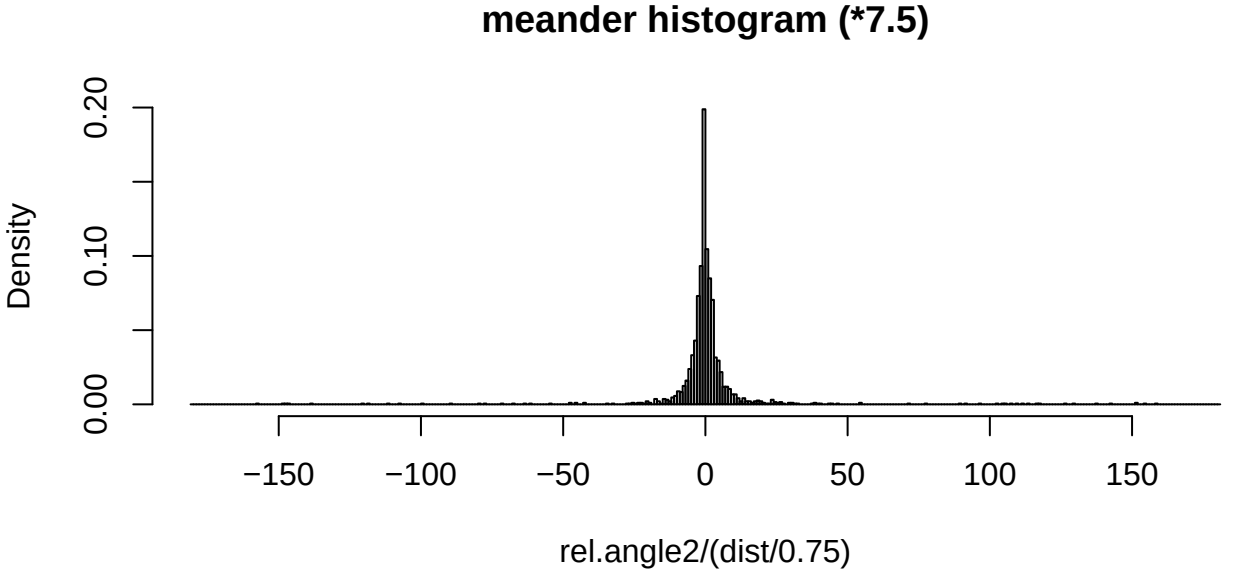

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0
1
2
3
log(speeds$speed)

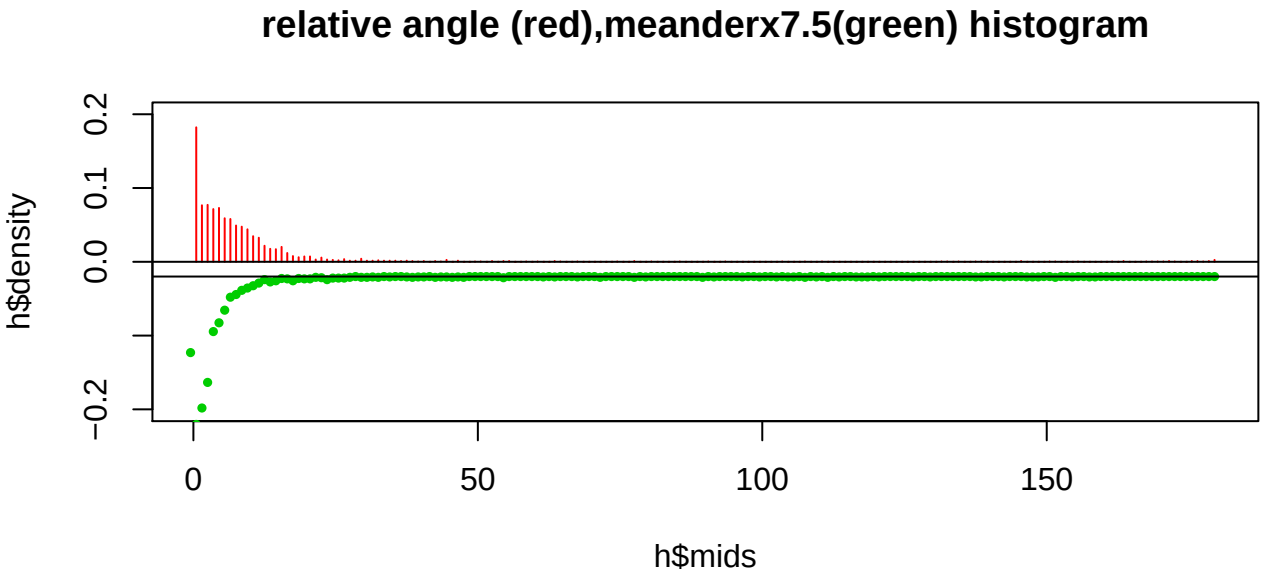

speed average per sec: 113_CSHS
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

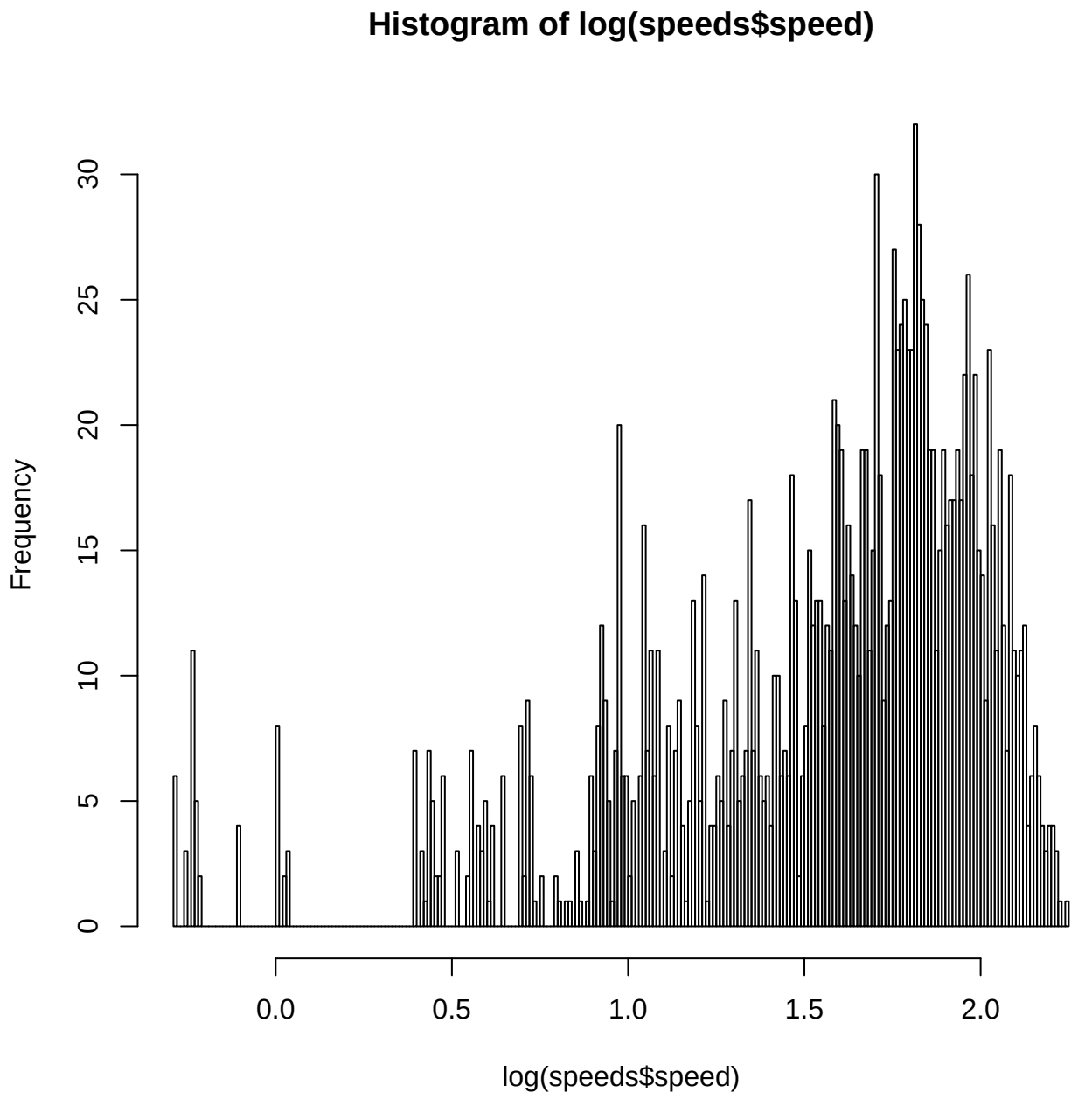

speed average per sec: 113_CSHS
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

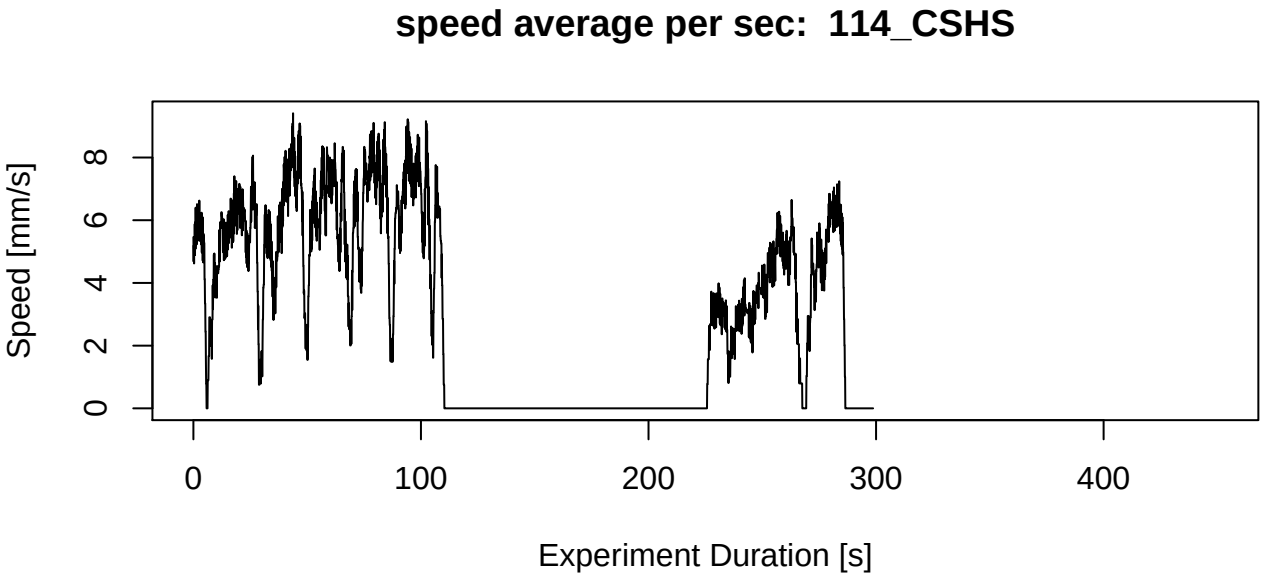

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

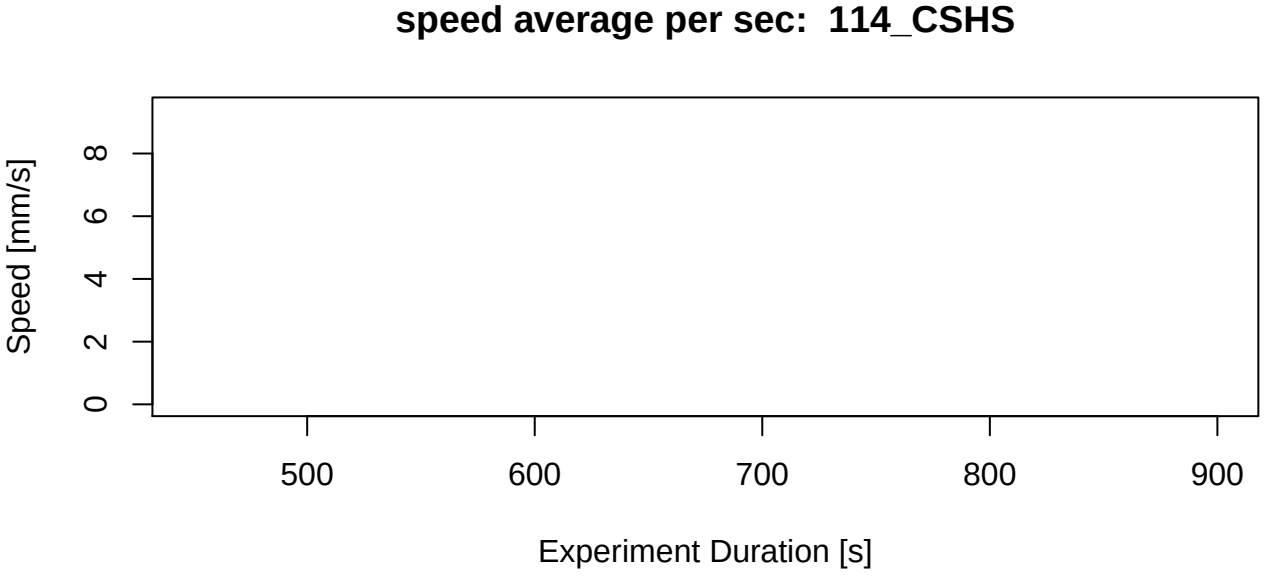

relative angle histogram
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2

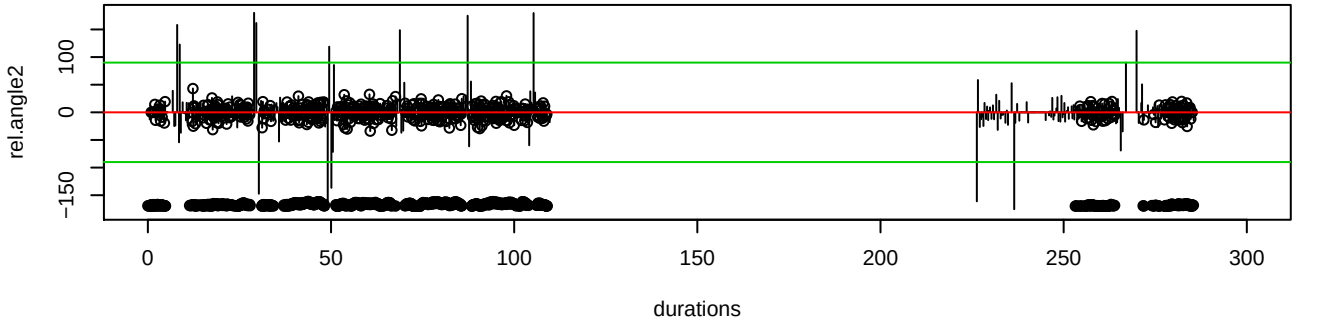

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

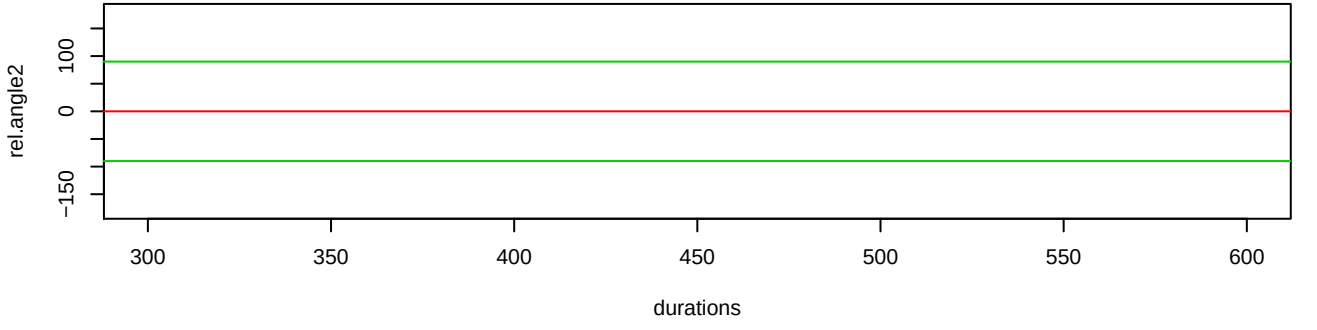

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

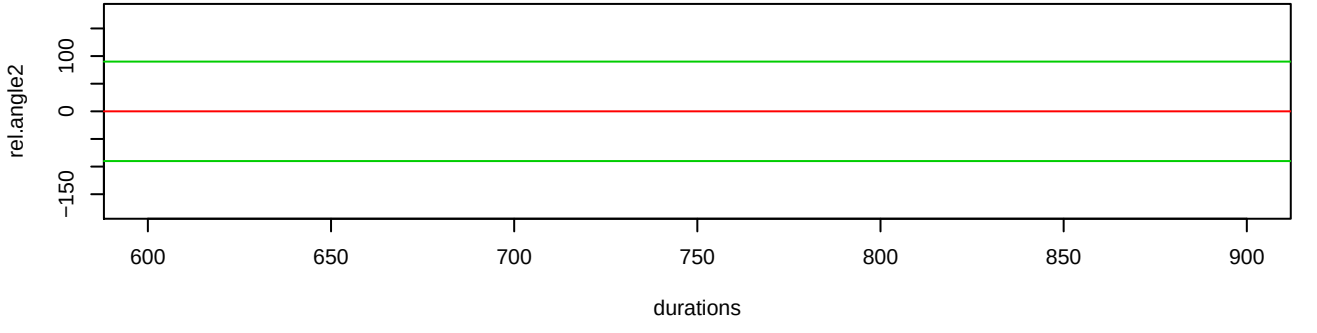

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0.0
0.5
1.0
1.5
2.0
log(speeds$speed)

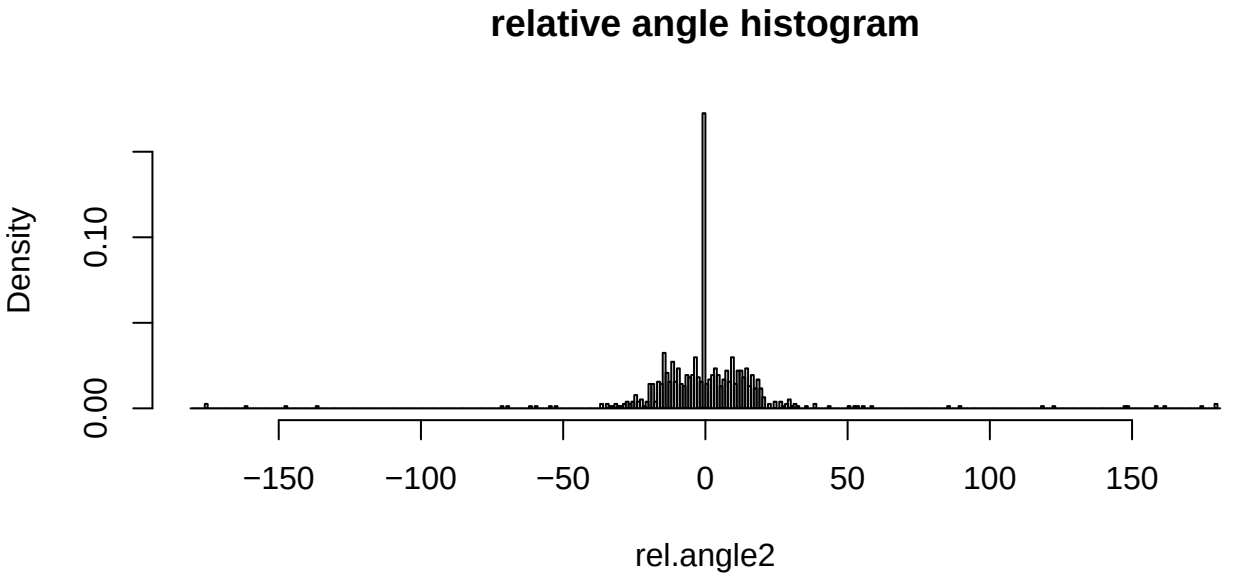

speed average per sec: 114_CSHS
Speed [mm/s]
0
2
4
6
8
0
100
200
300
400
Experiment Duration [s]

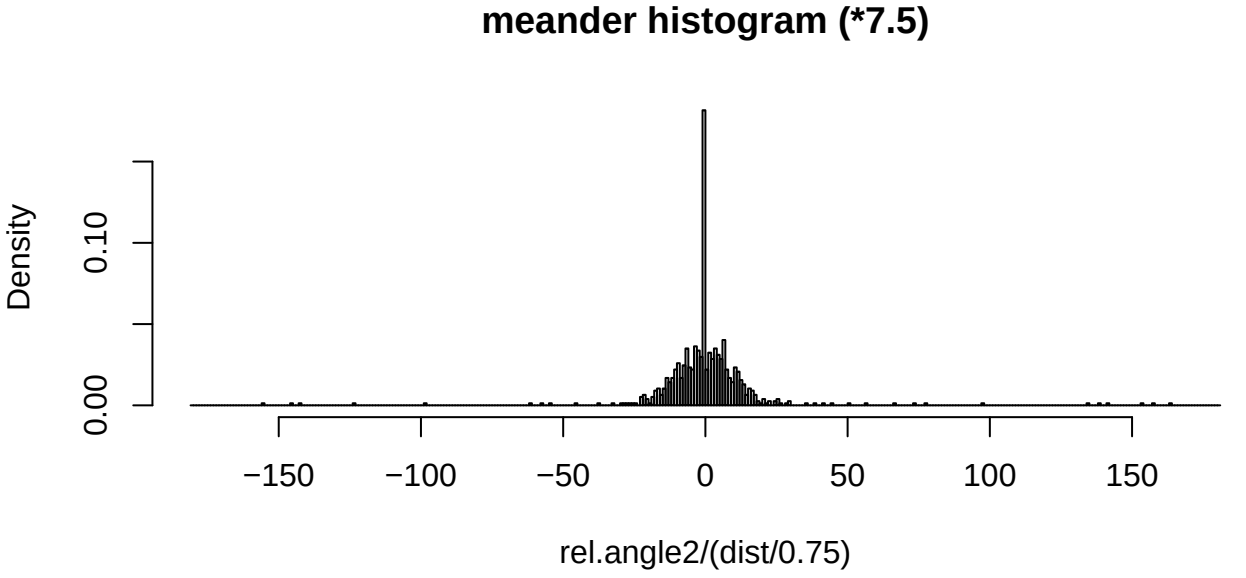

speed average per sec: 114_CSHS
Speed [mm/s]
0
2
4
6
8
500
600
700
800
900
Experiment Duration [s]

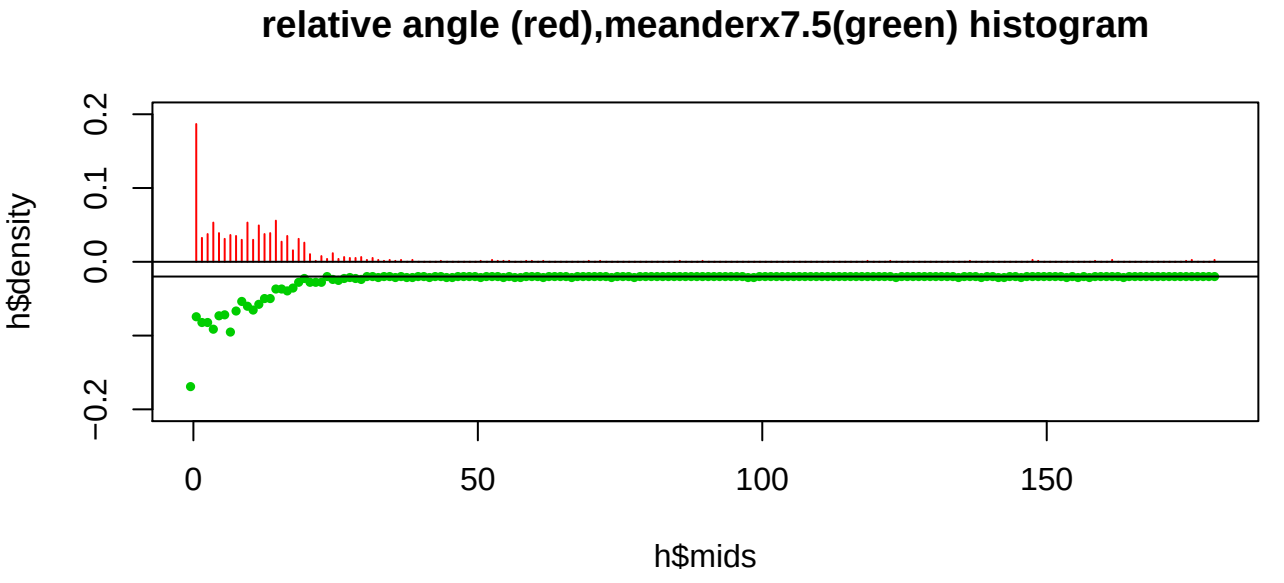

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

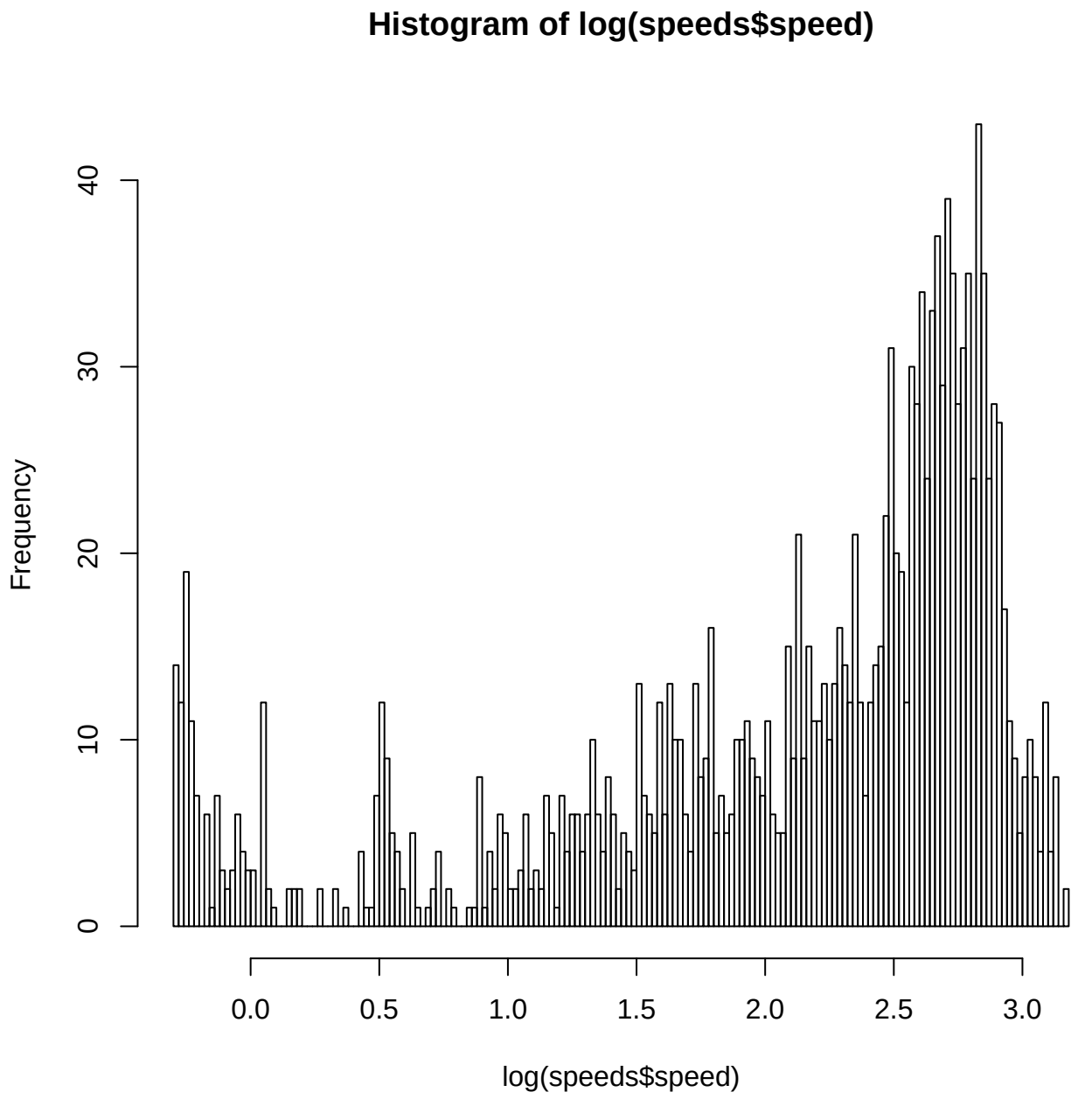

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

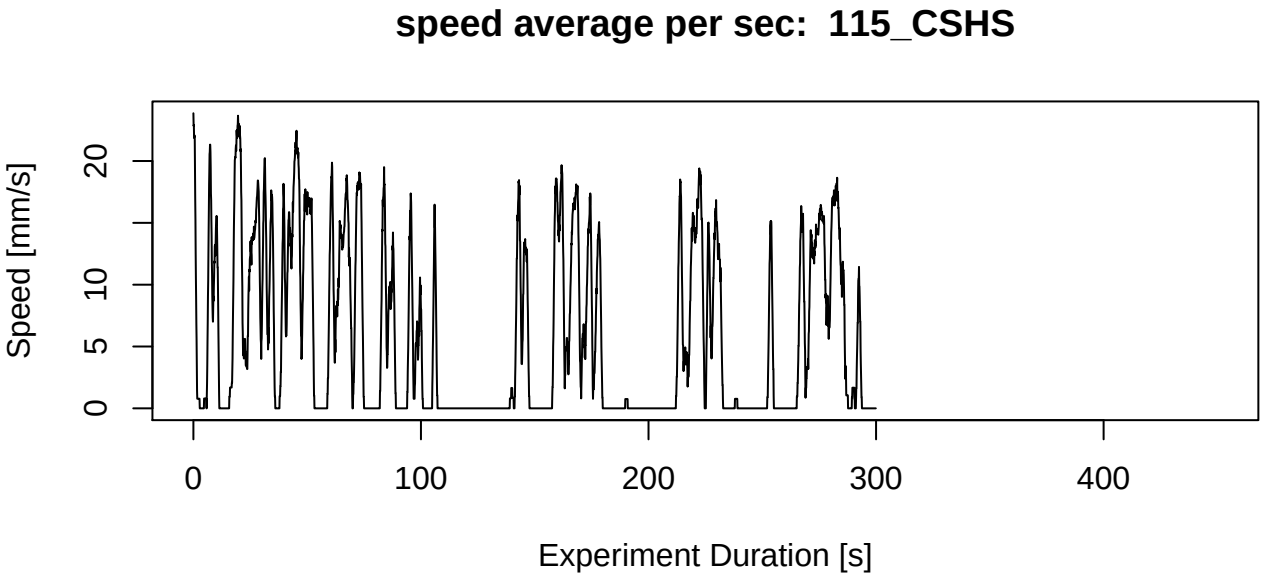

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

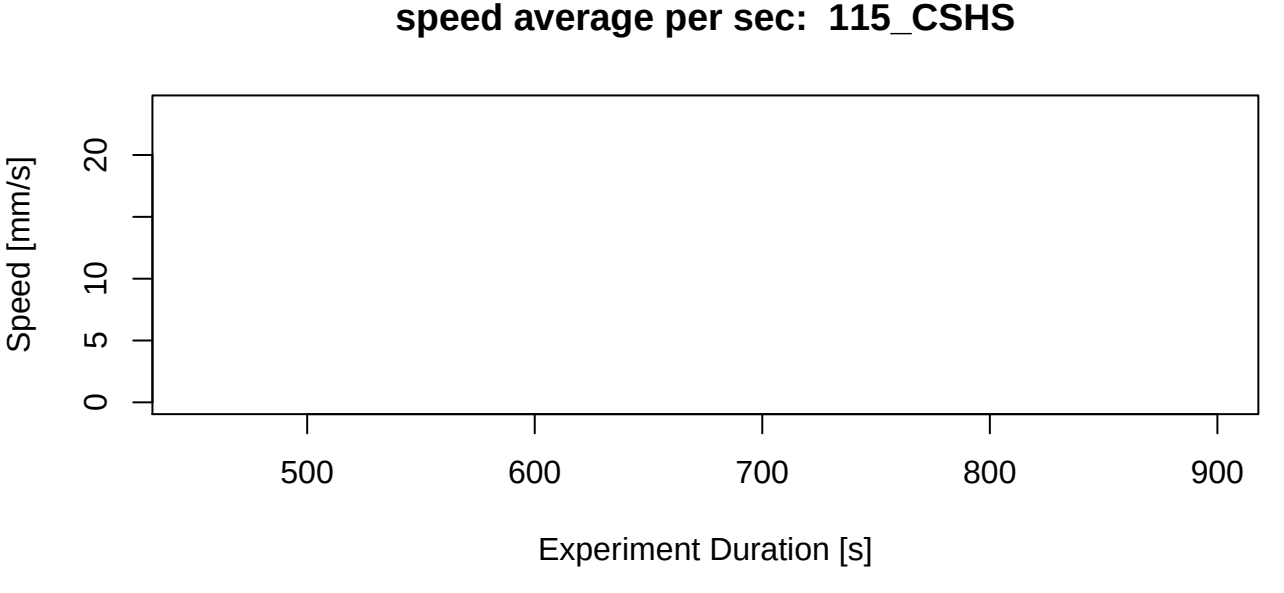

relative angle histogram
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2

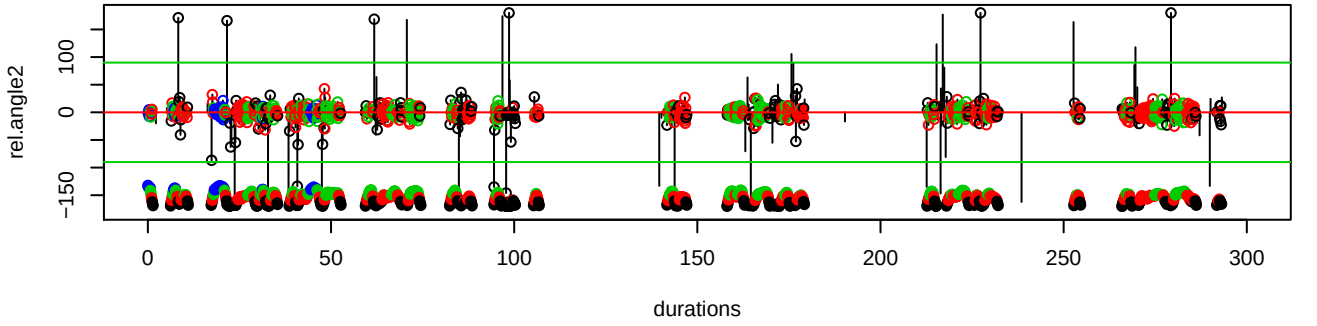

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

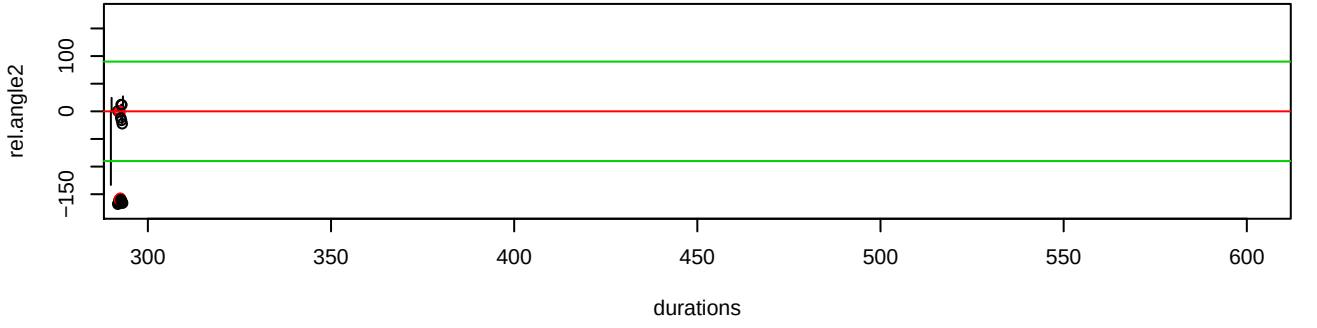

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

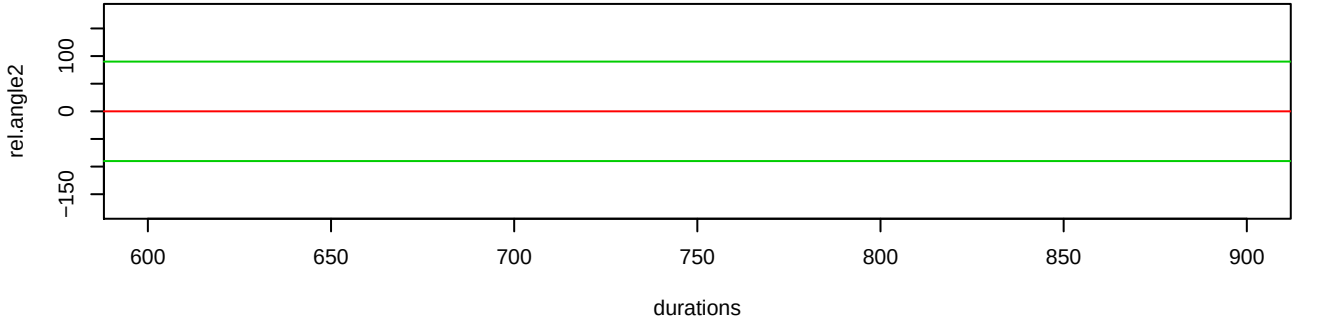

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

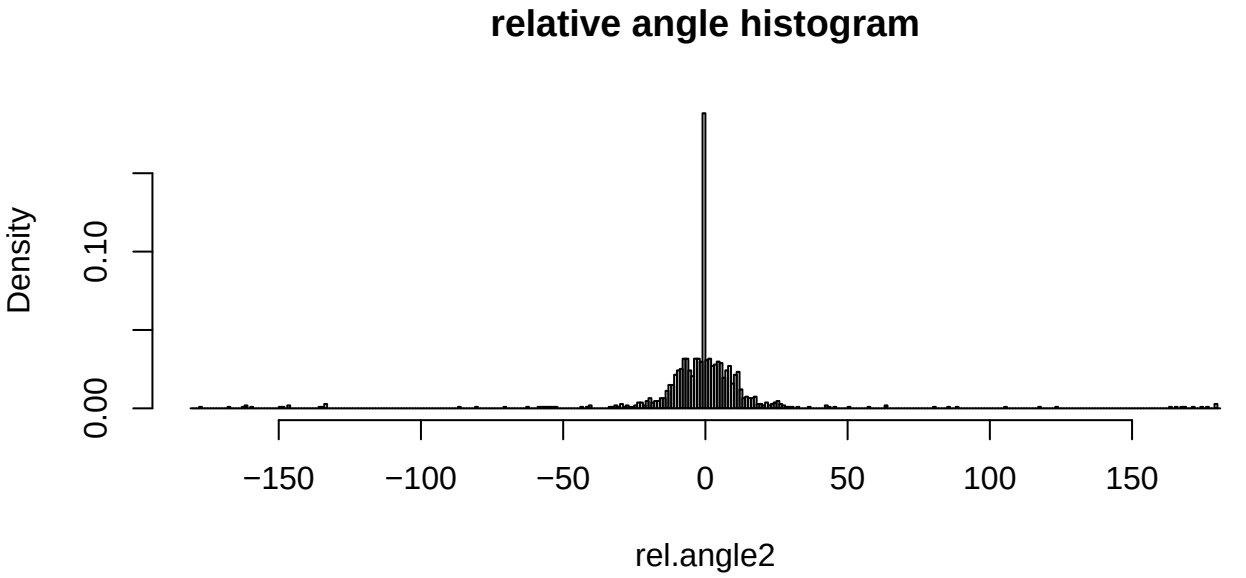

speed average per sec: 115_CSHS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

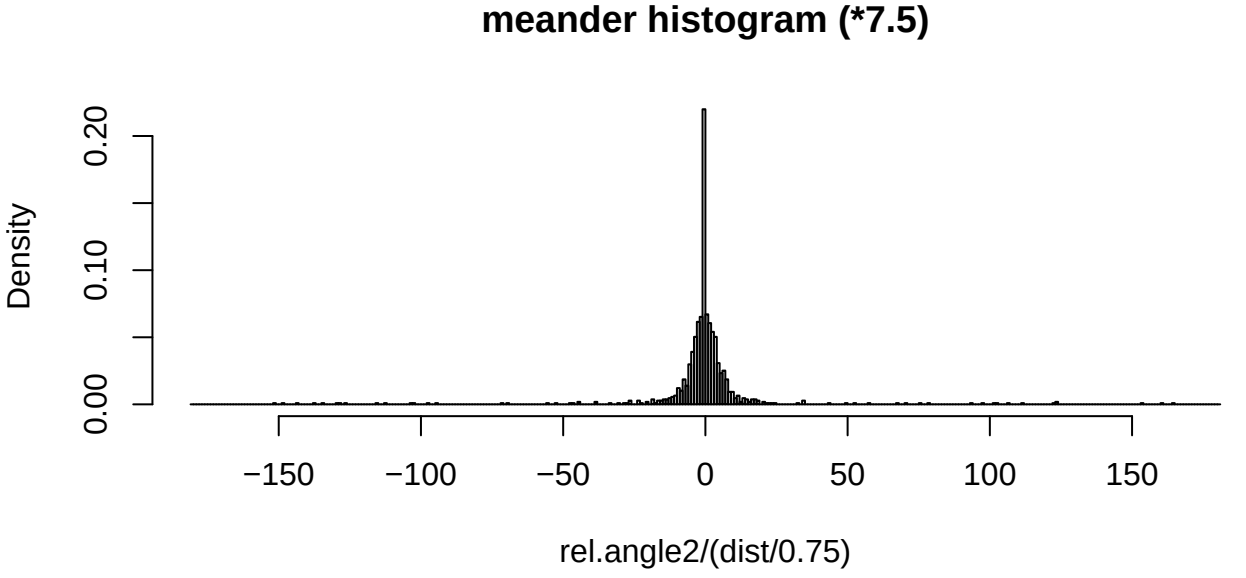

speed average per sec: 115_CSHS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

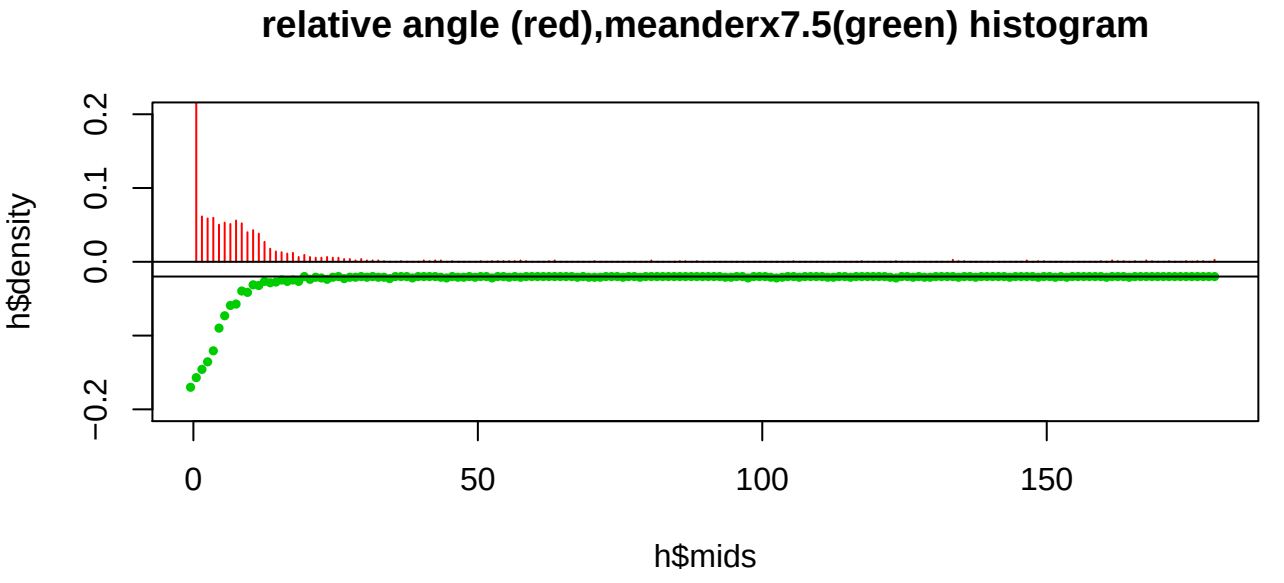

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

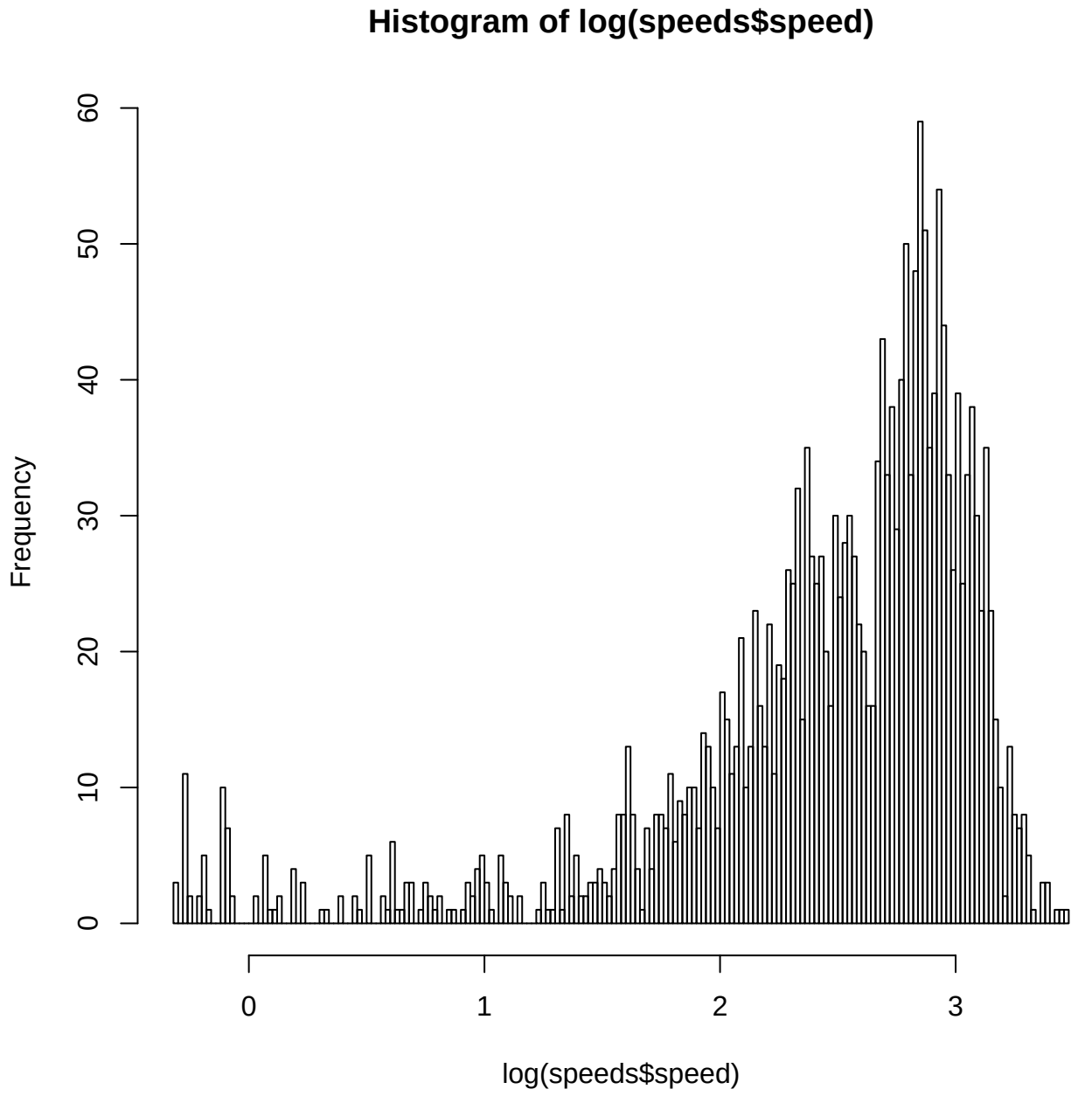

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

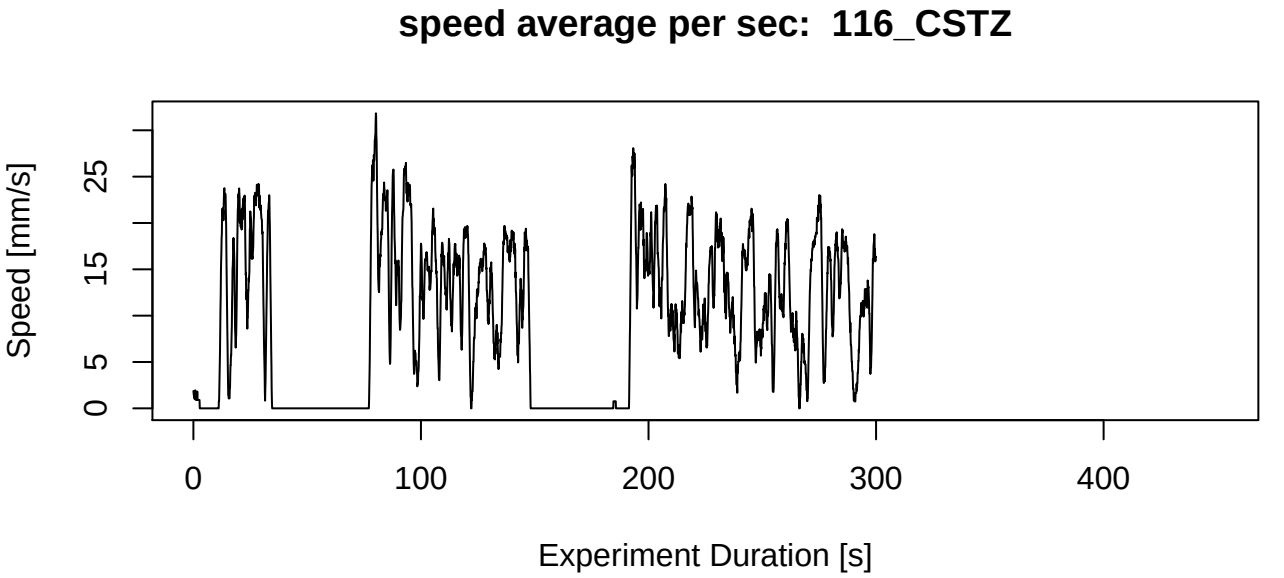

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

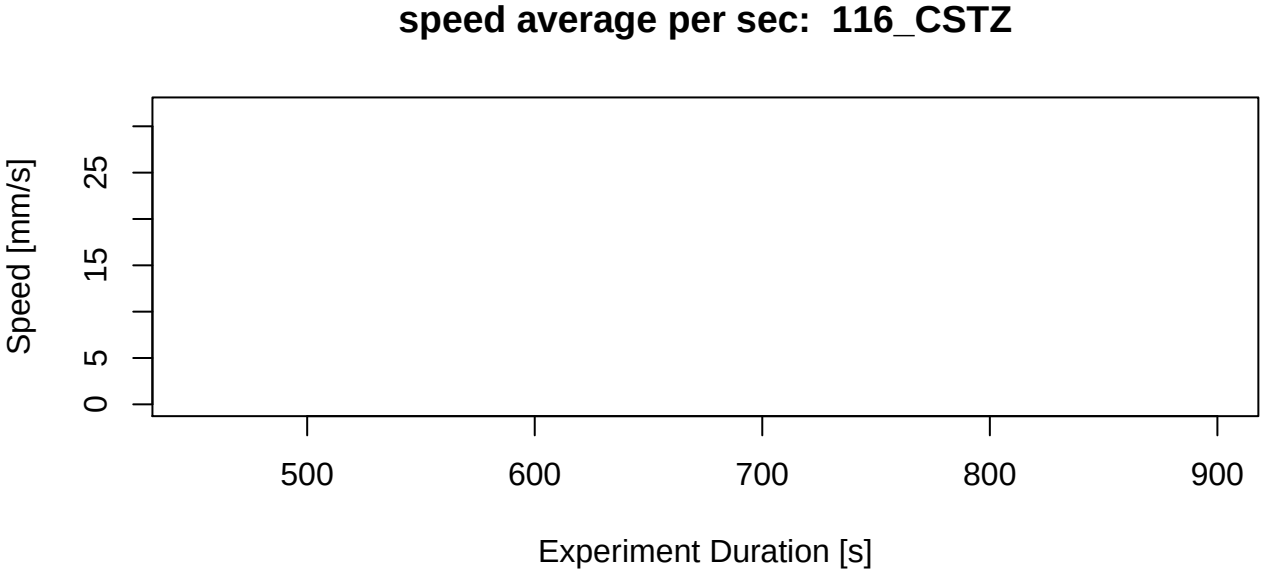

relative angle histogram
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2

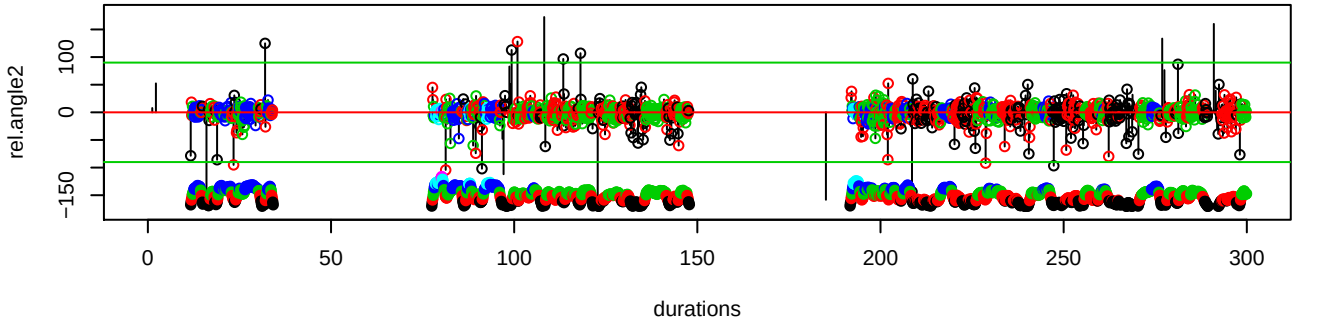

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

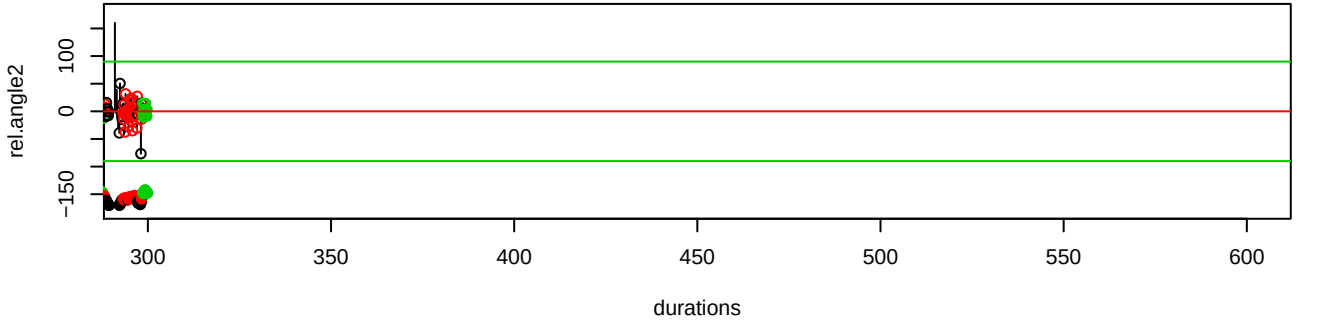

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

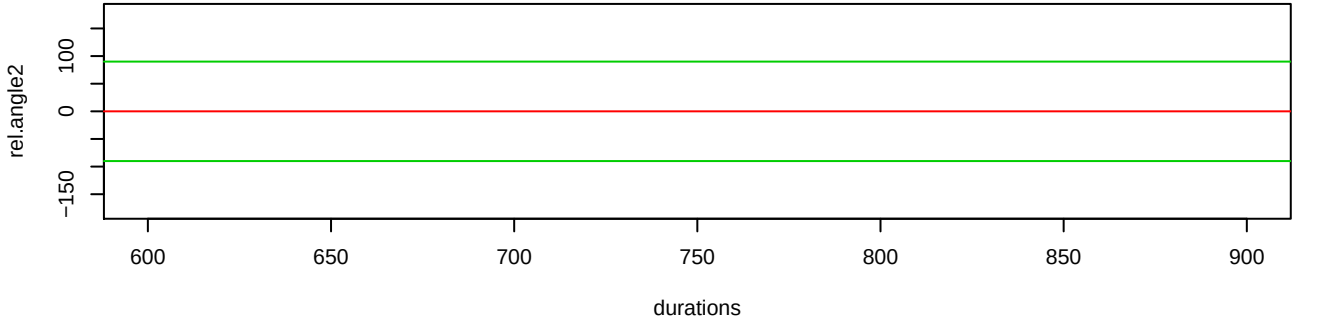

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0
1
2
3
log(speeds$speed)

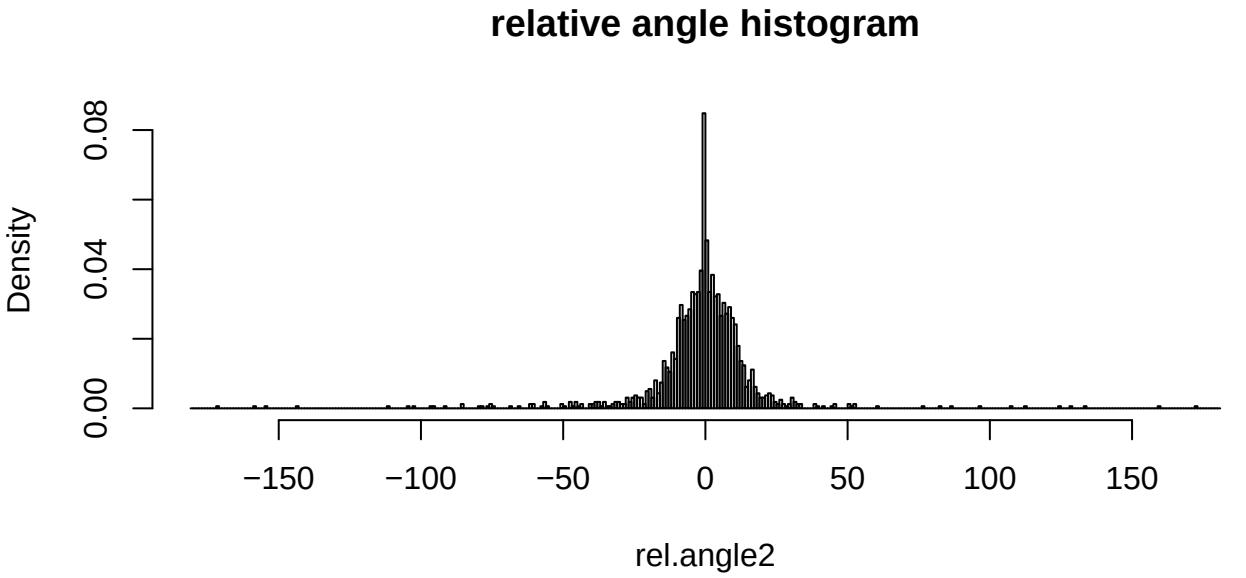

speed average per sec: 116_CSTZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

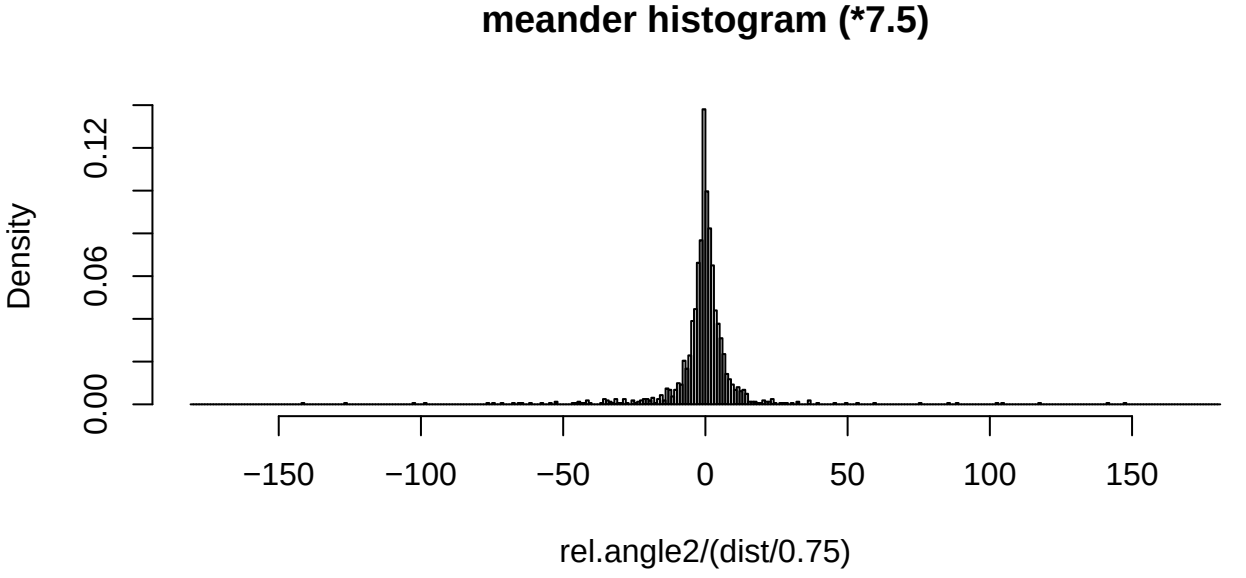

speed average per sec: 116_CSTZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

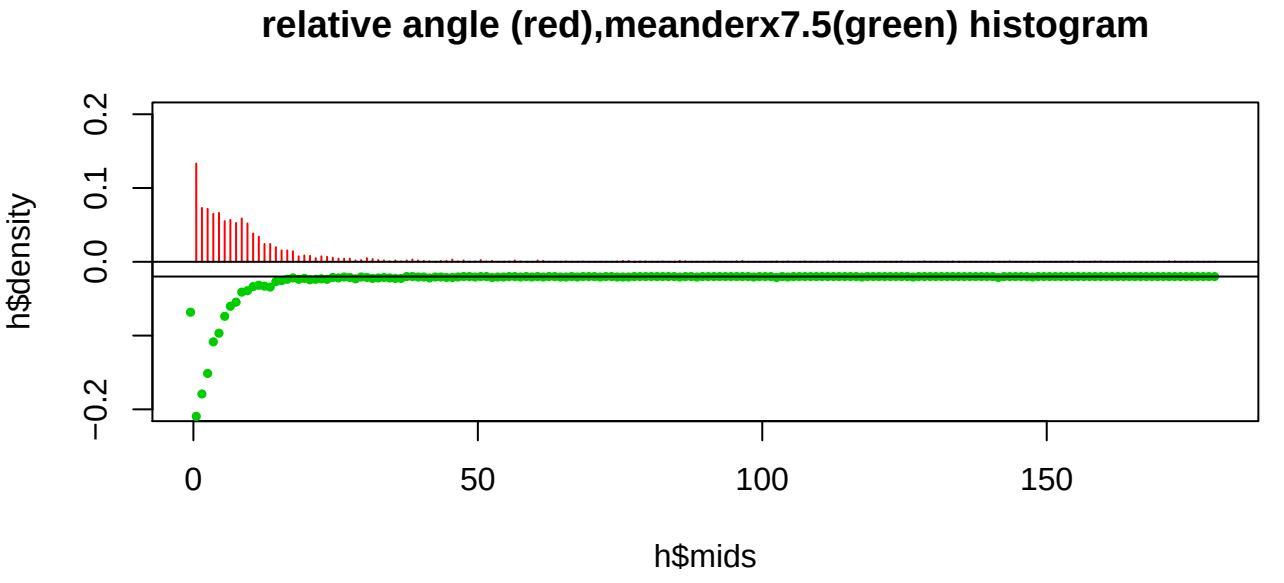

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

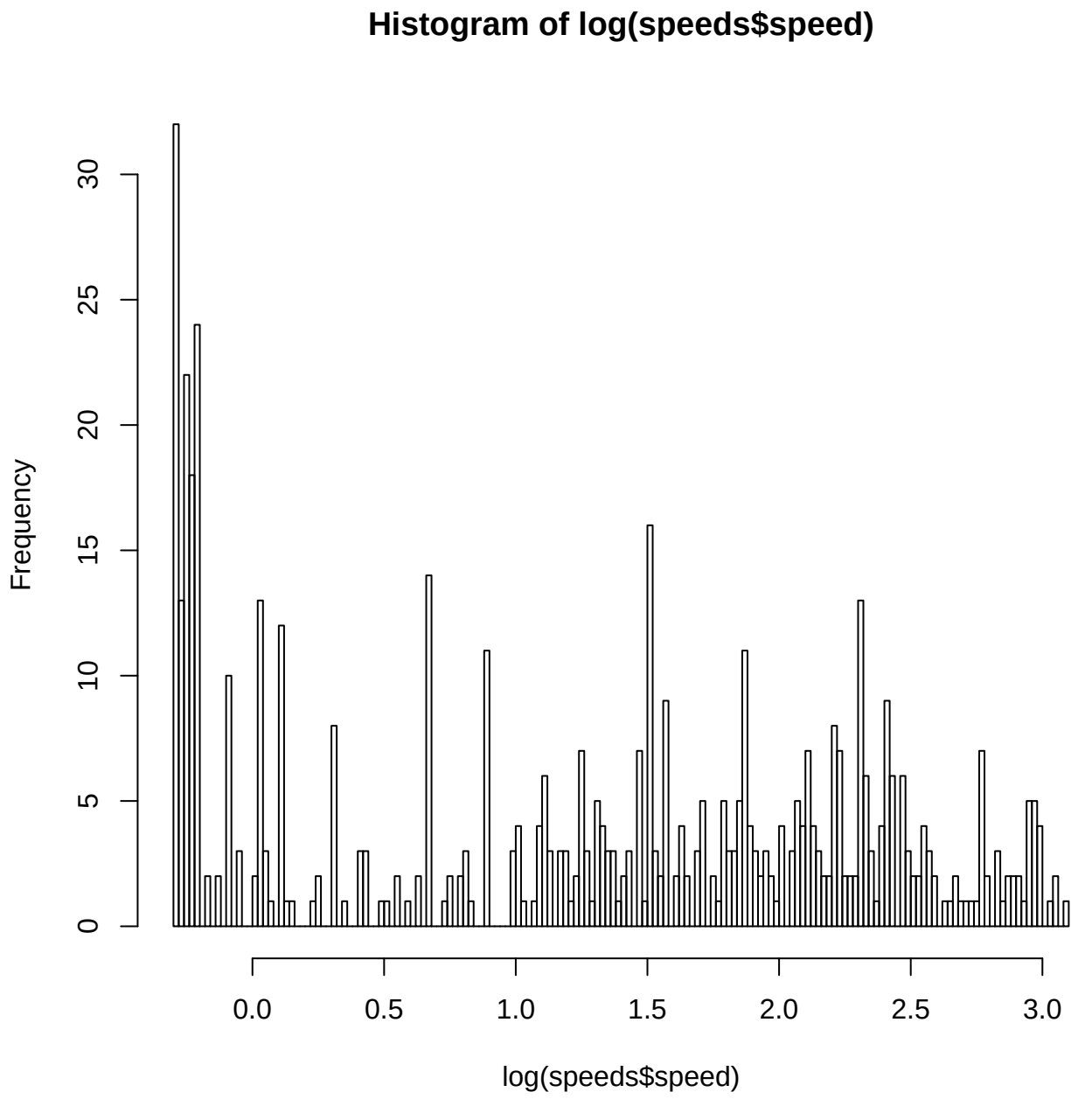

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

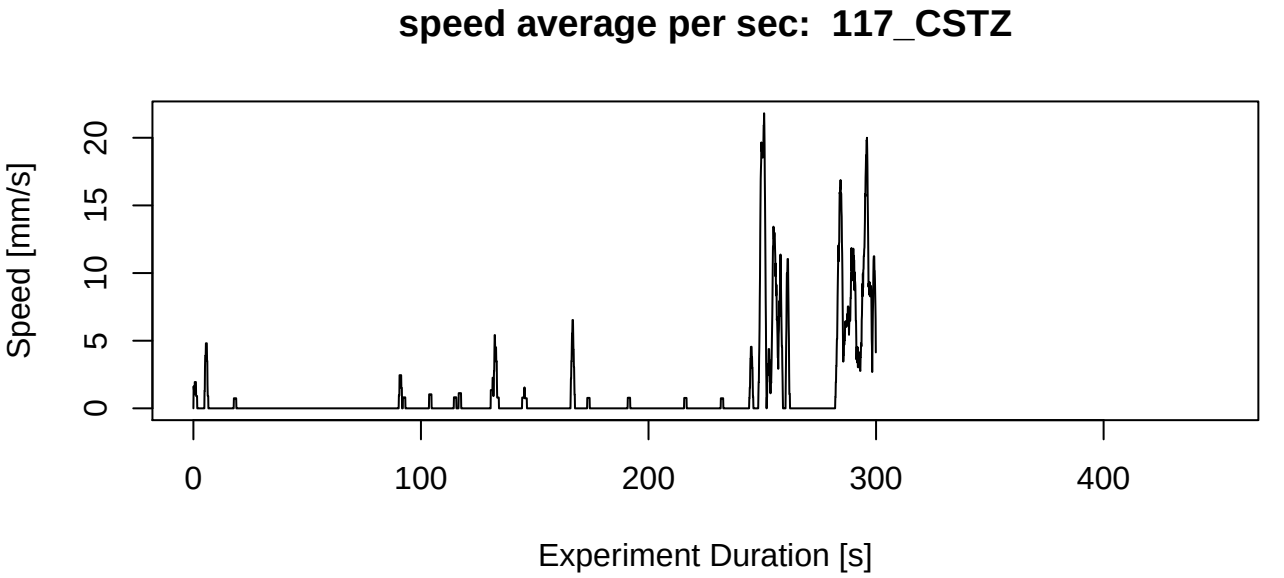

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

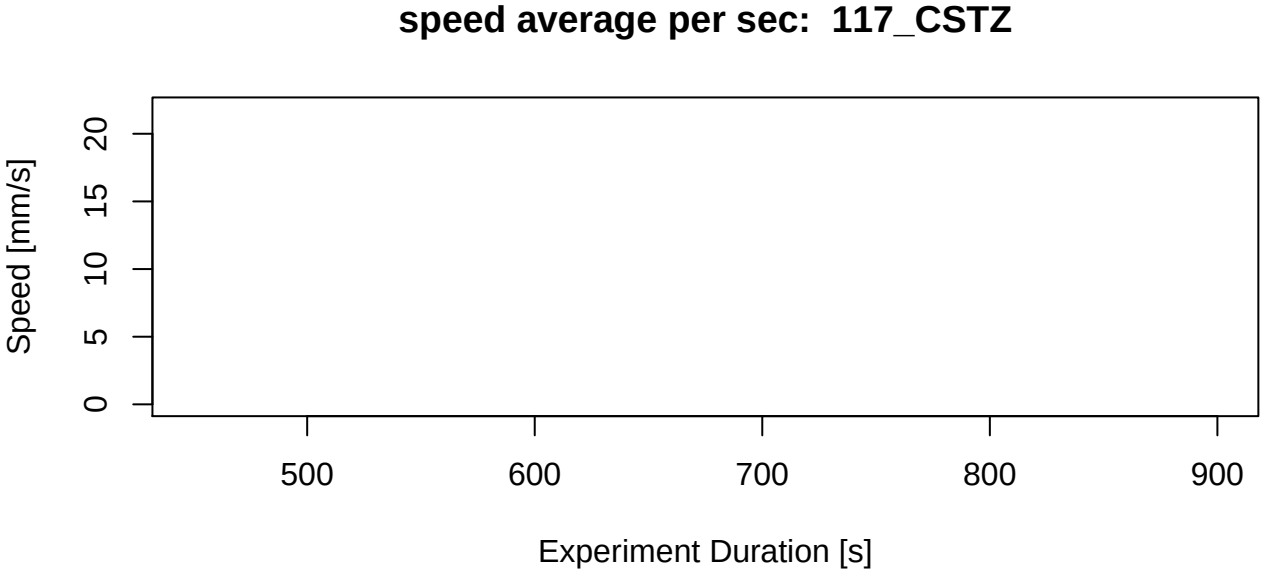

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

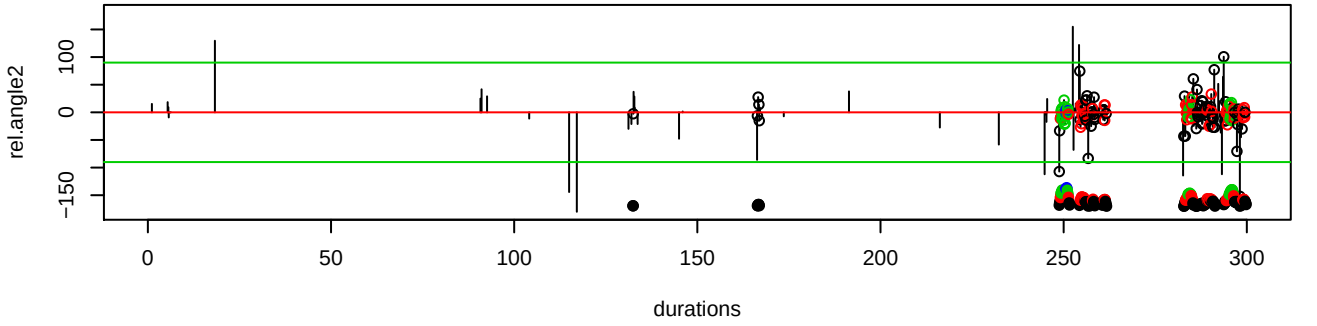

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

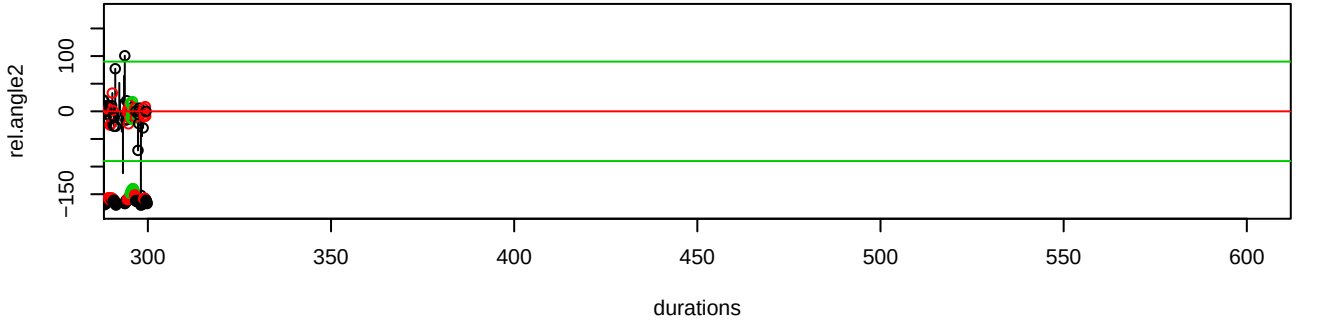

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

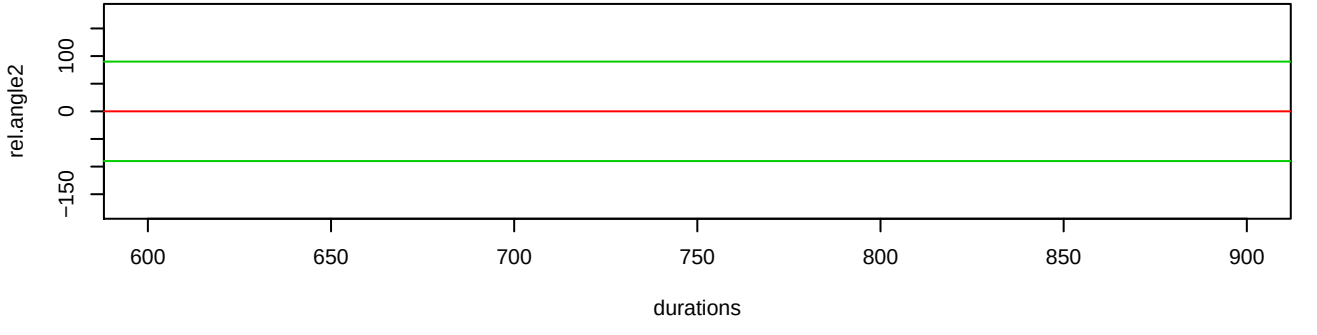

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

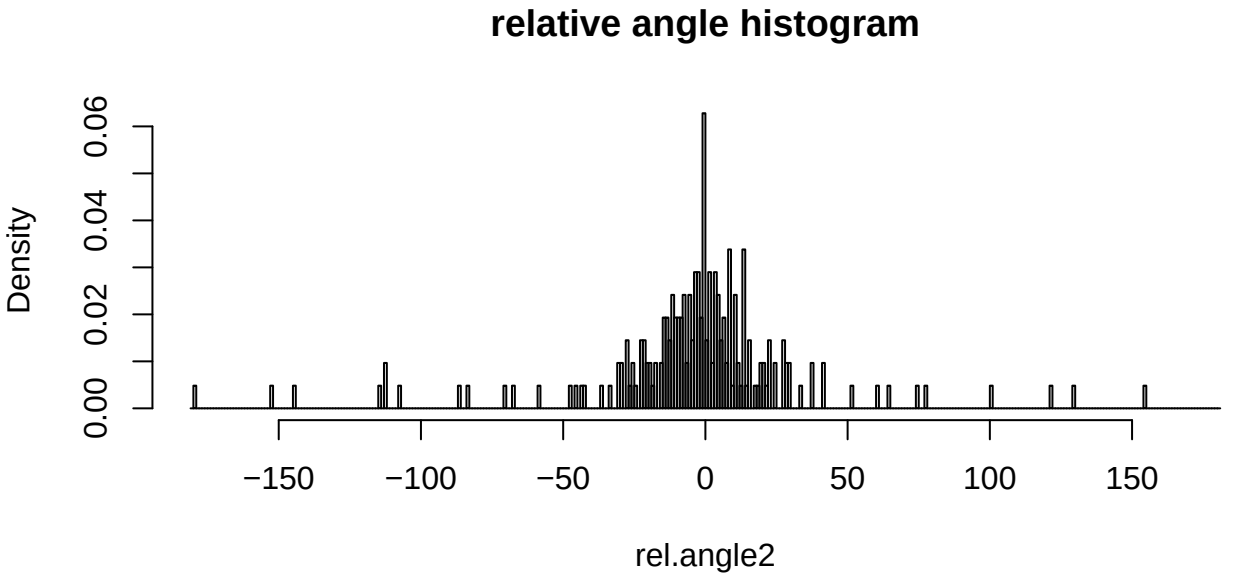

speed average per sec: 117_CSTZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

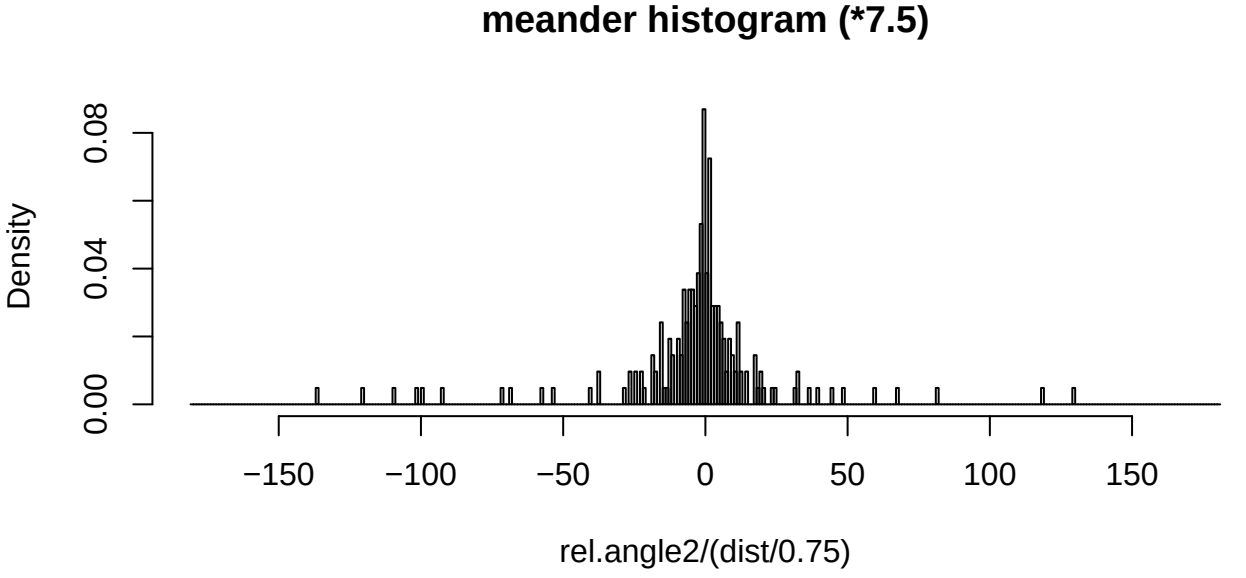

speed average per sec: 117_CSTZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

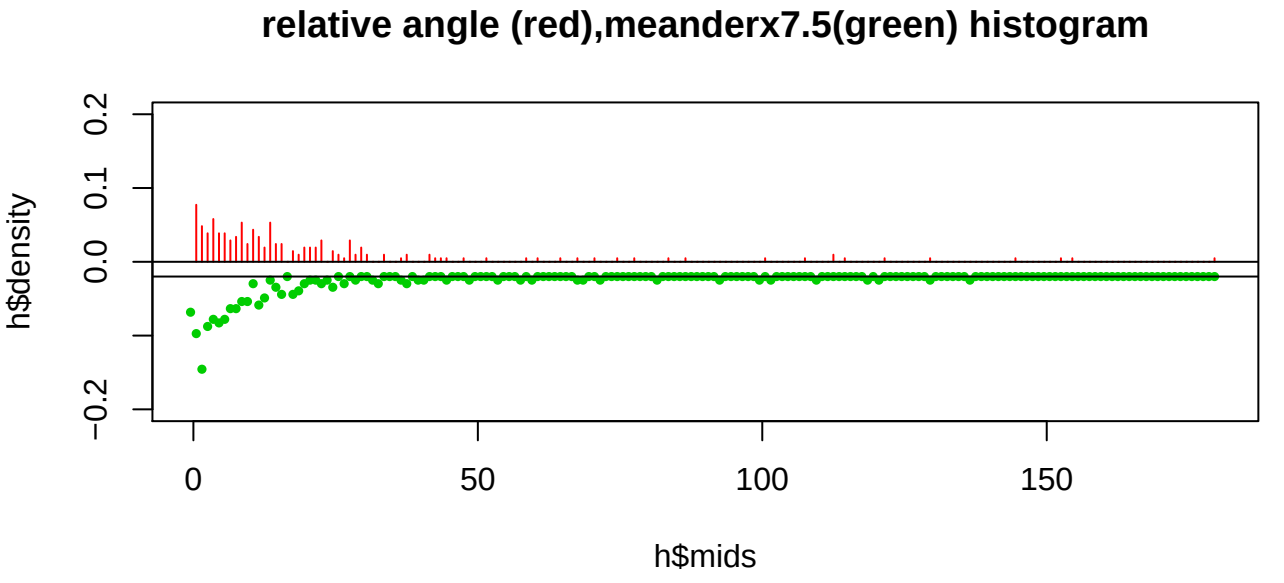

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

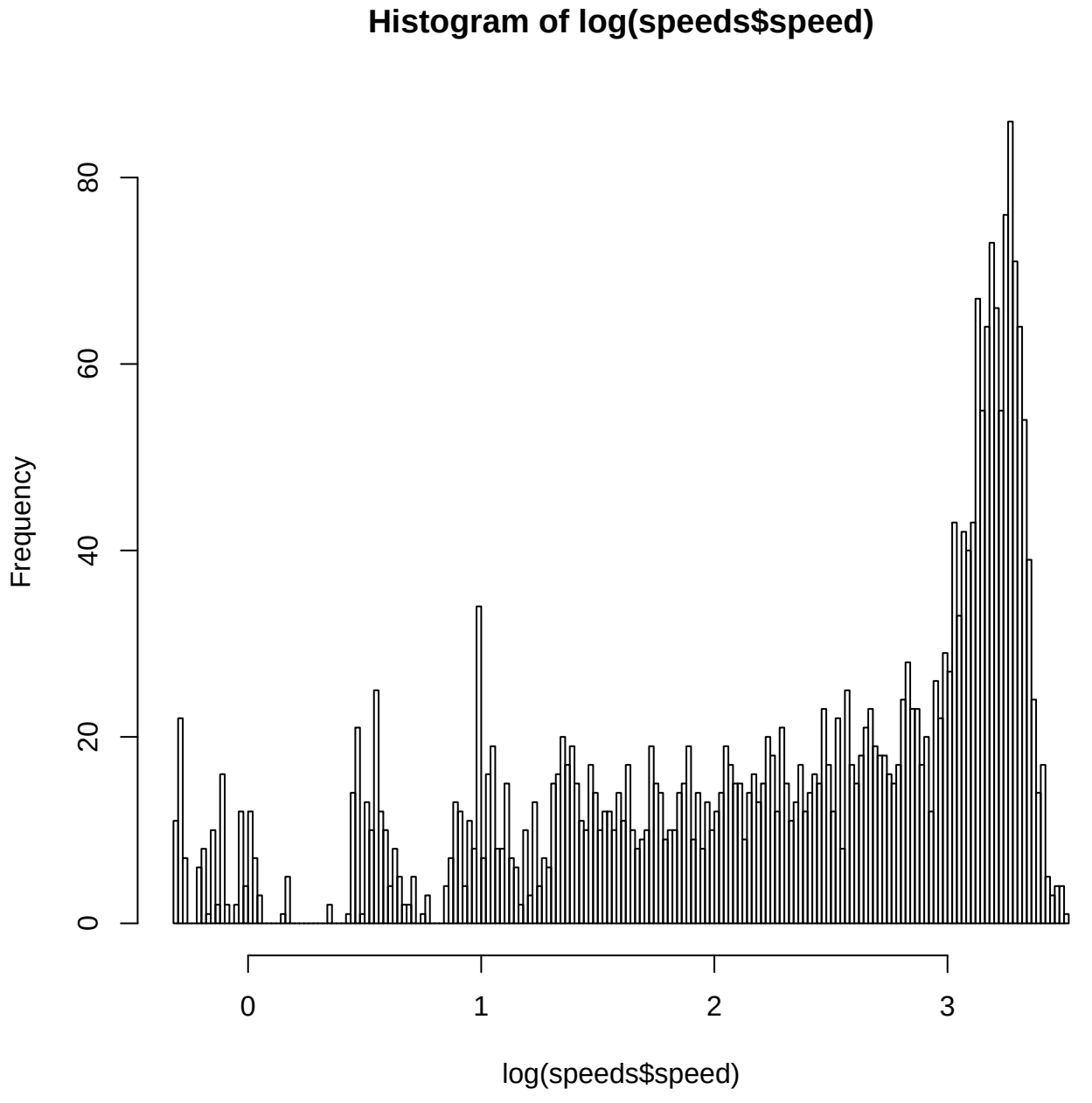

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

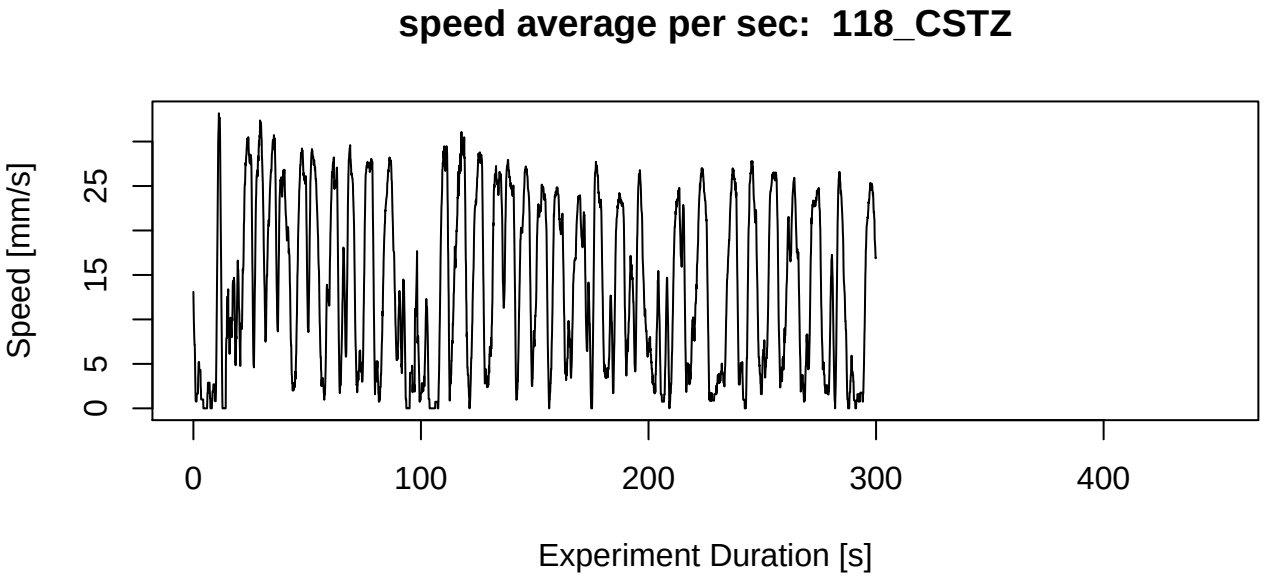

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

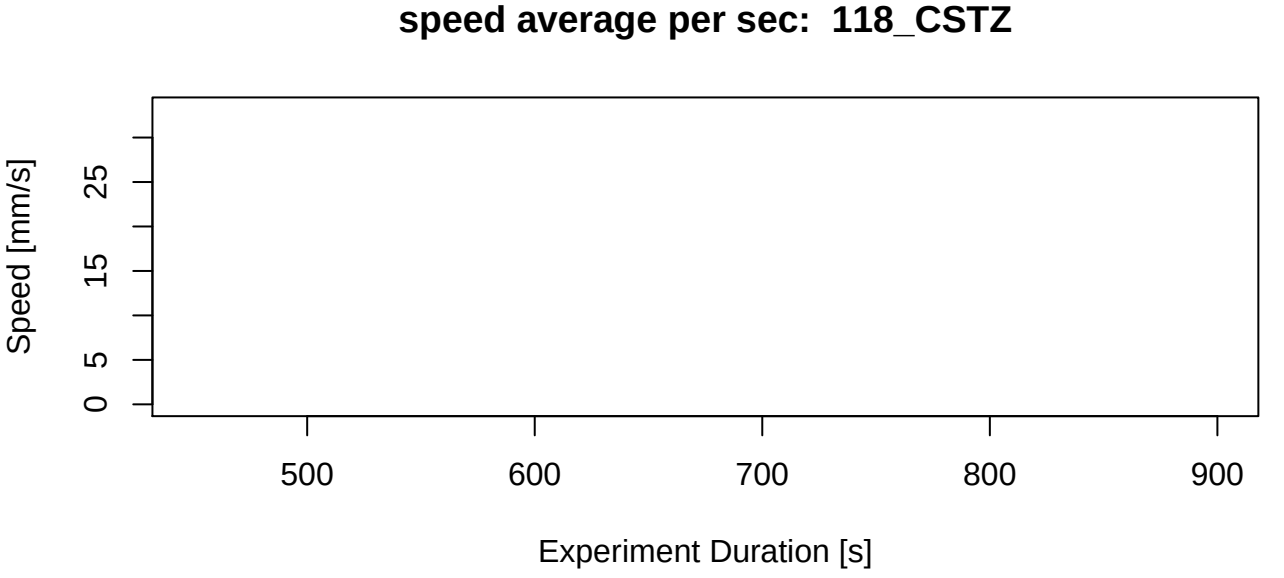

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

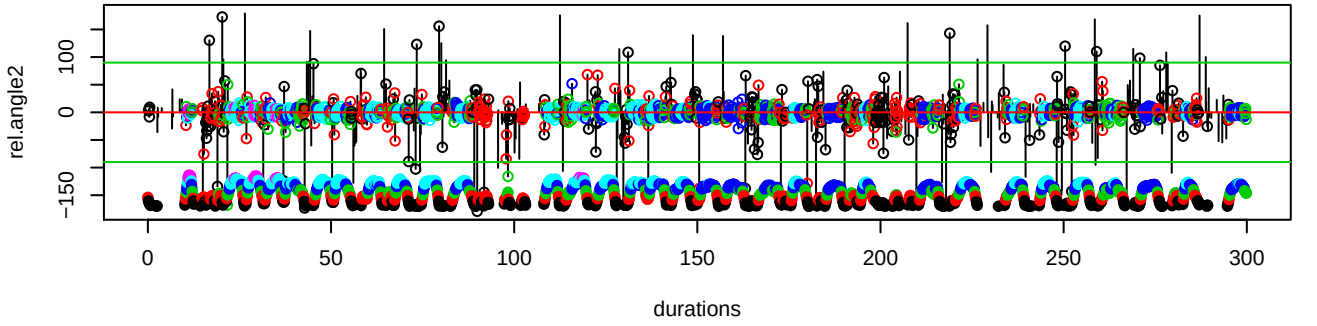

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

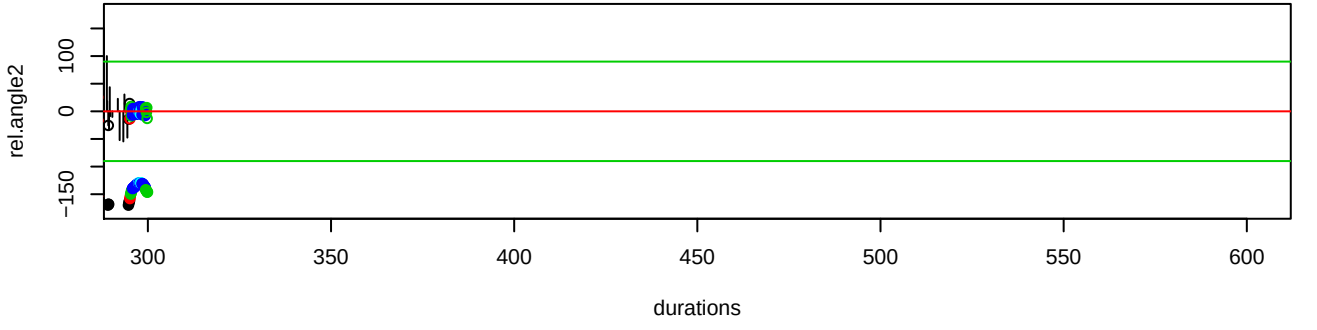

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

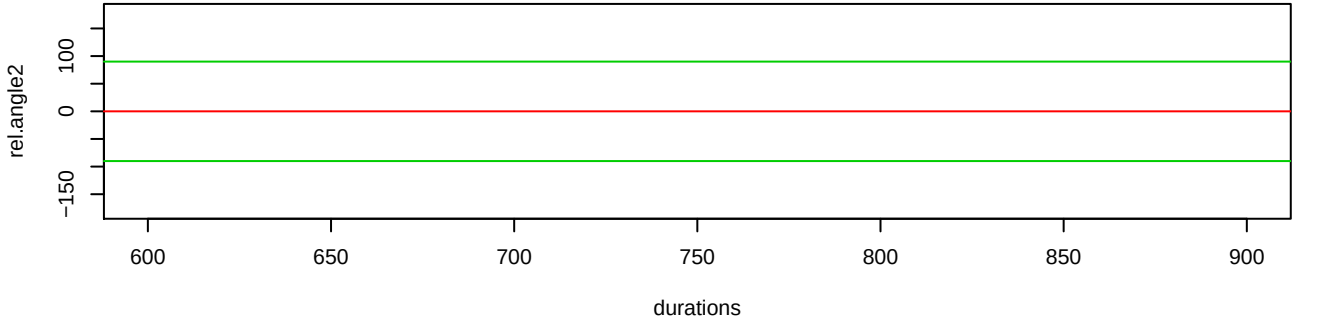

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0
1
2
3
log(speeds$speed)

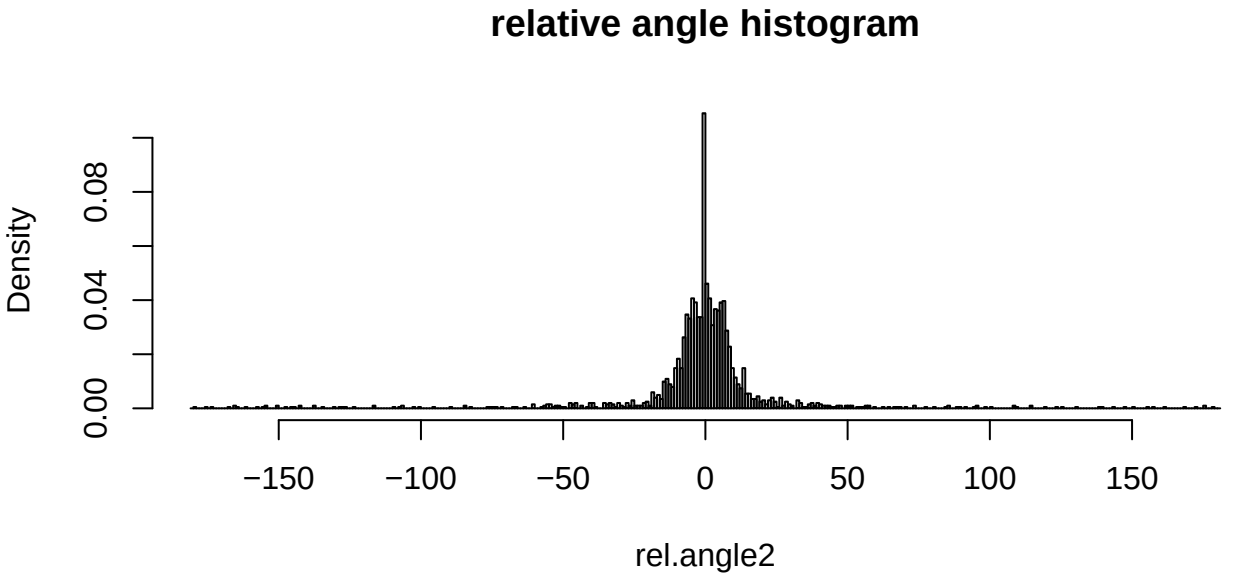

speed average per sec: 118_CSTZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

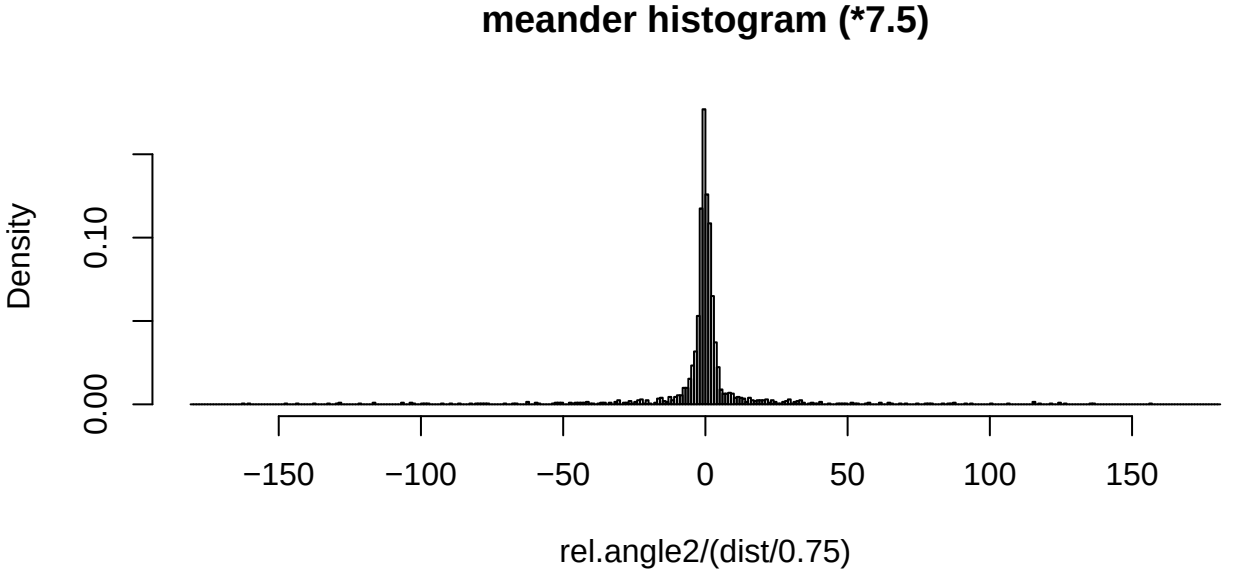

speed average per sec: 118_CSTZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

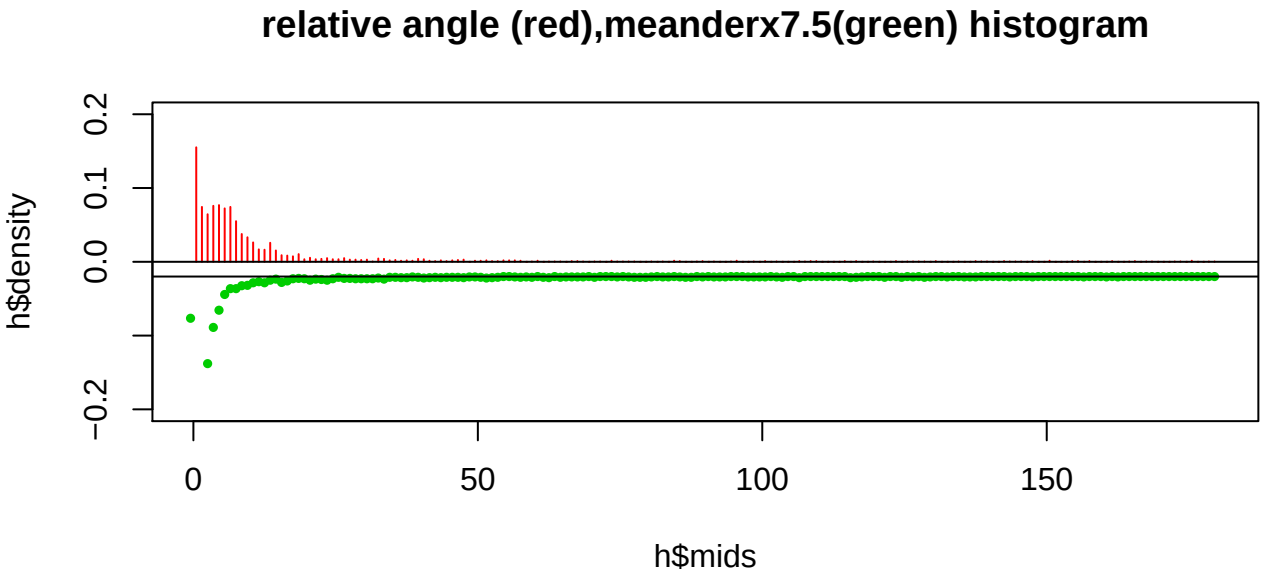

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

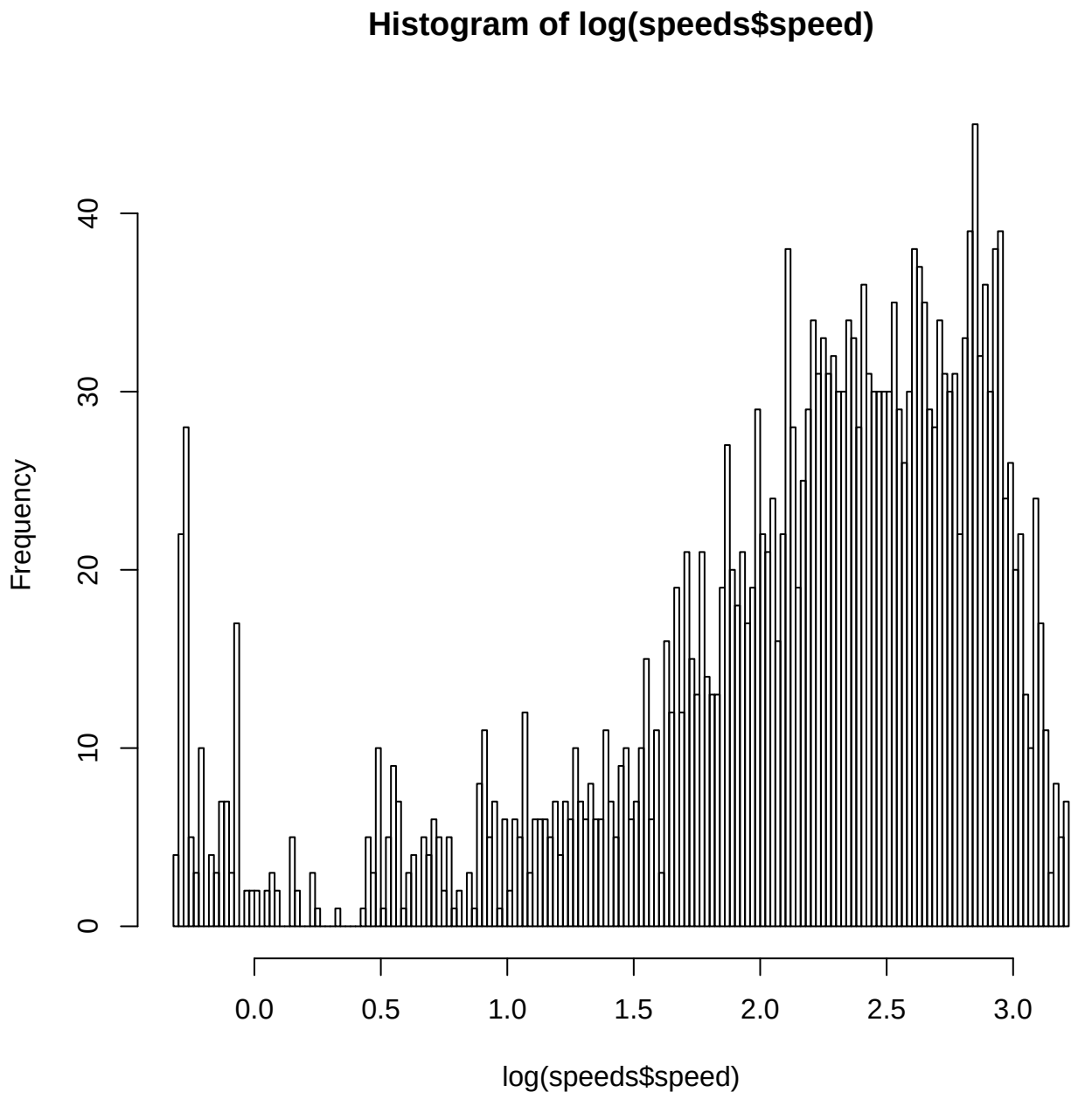

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

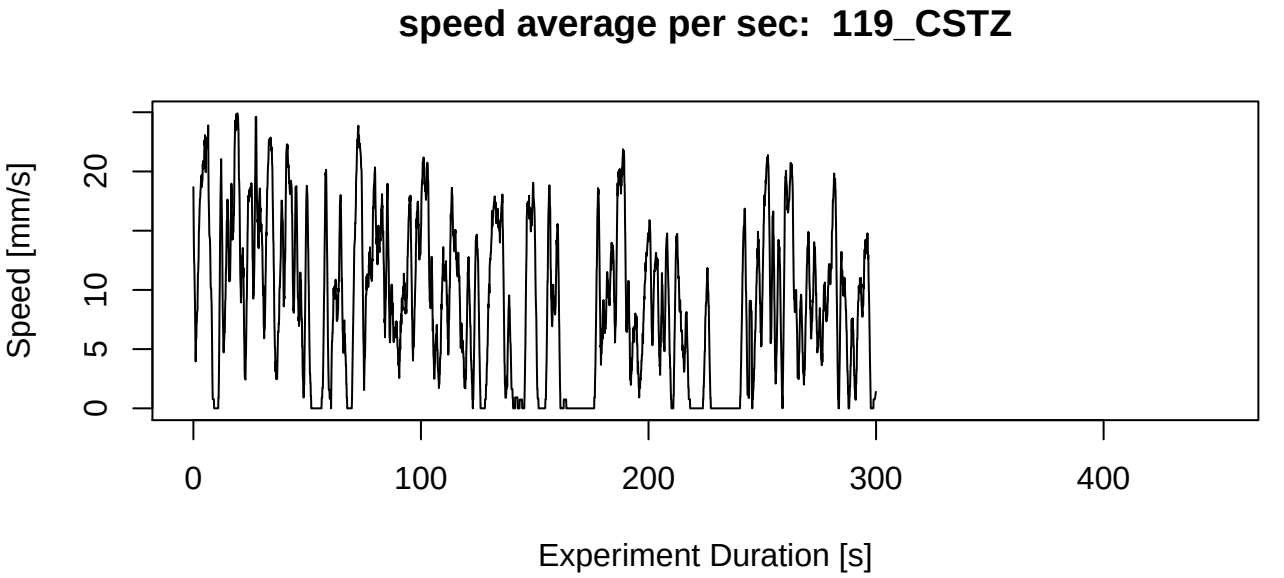

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

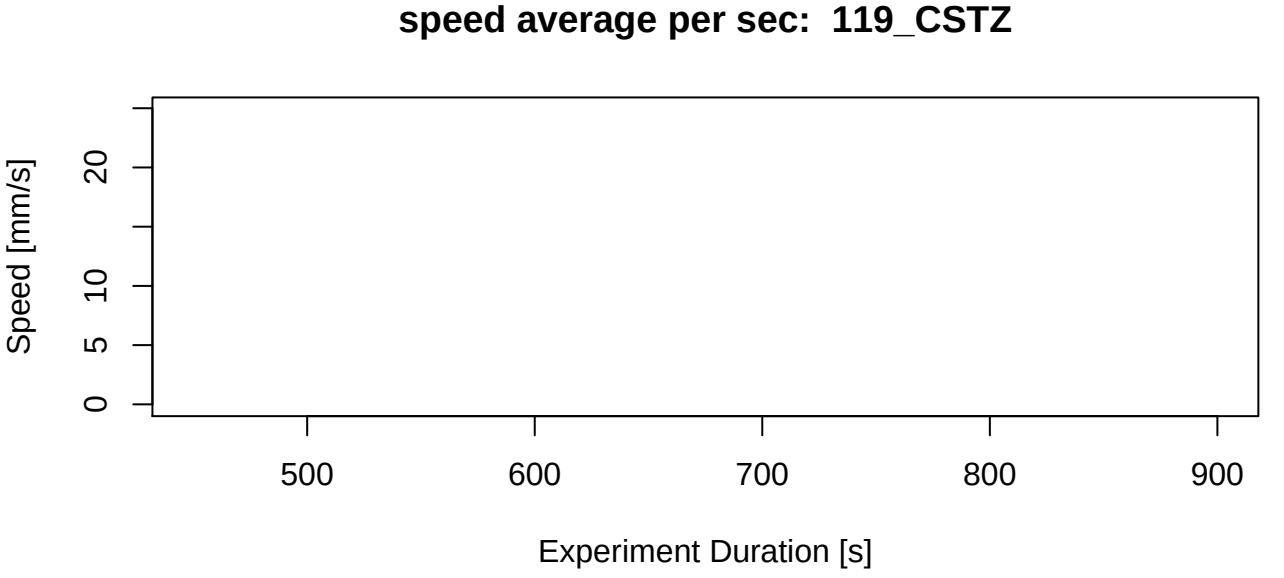

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

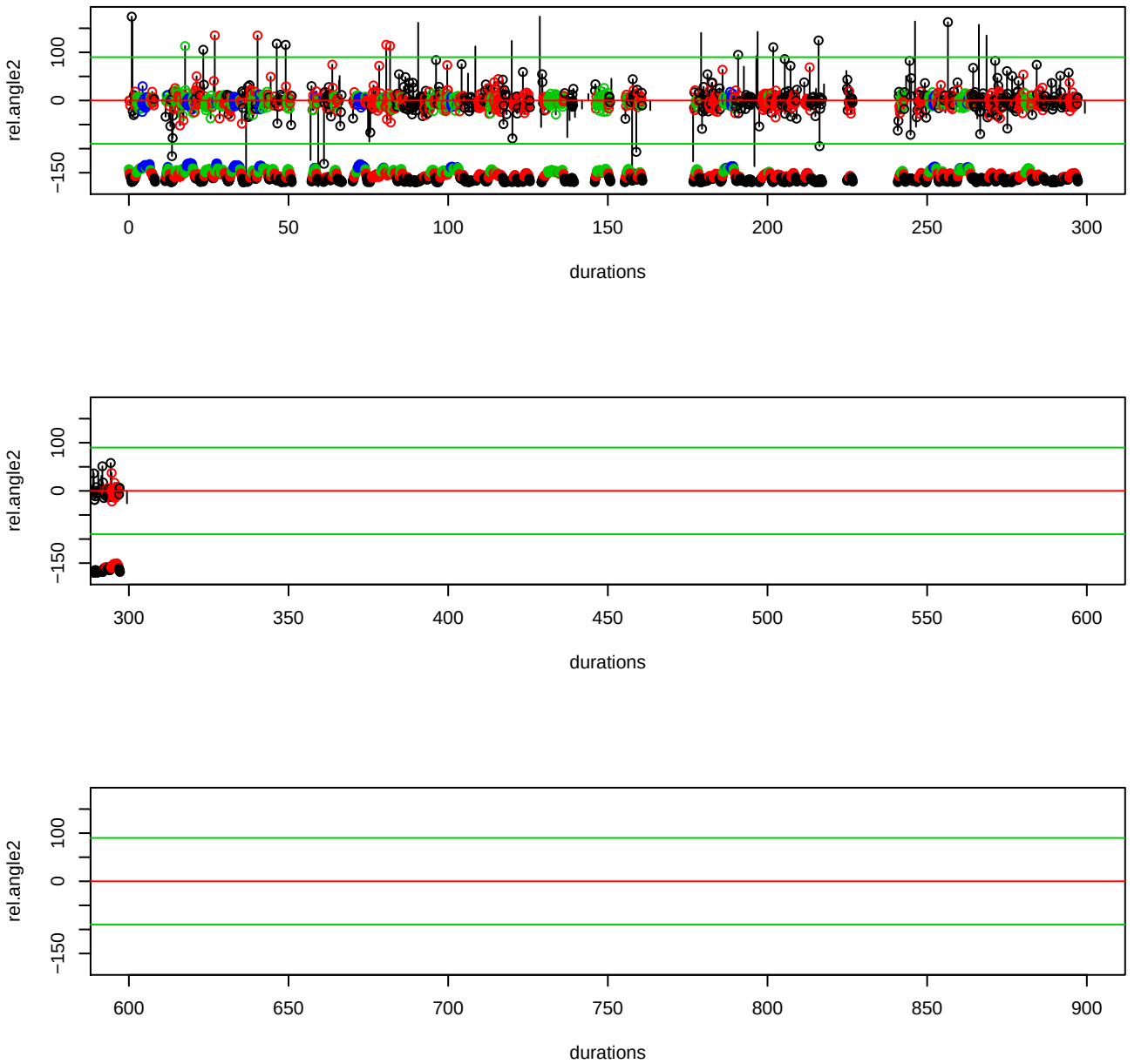

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

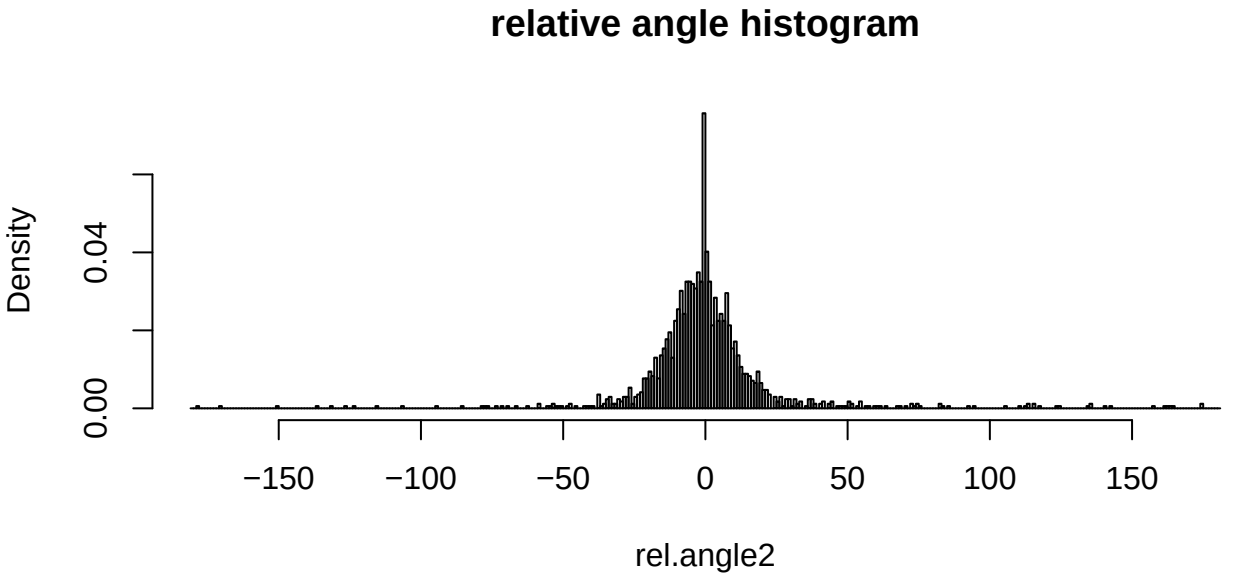

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

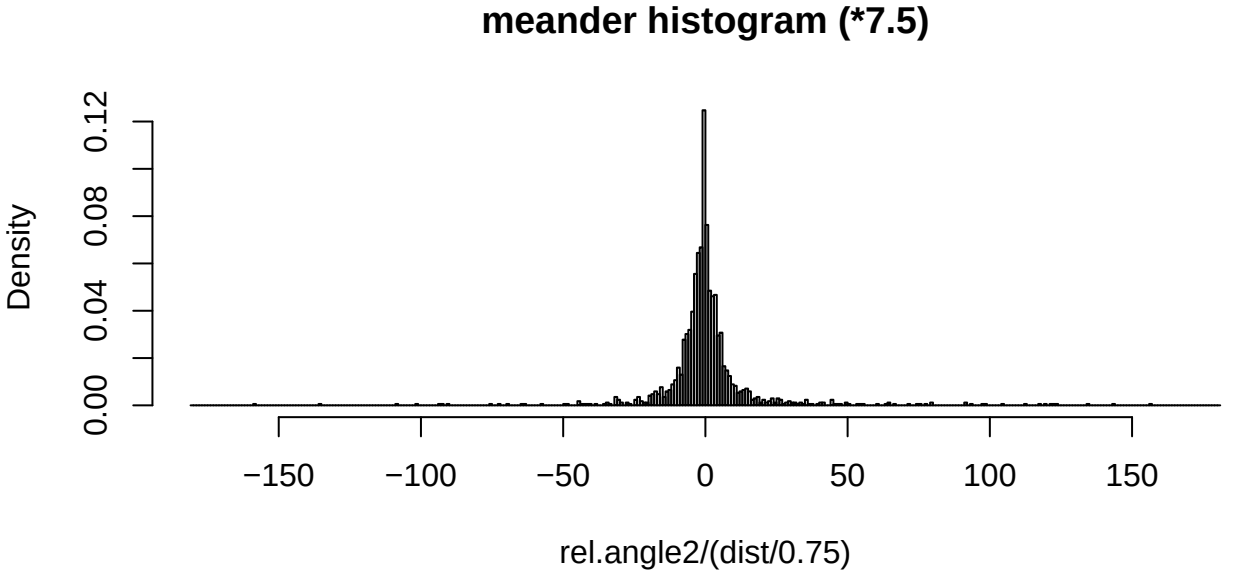

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

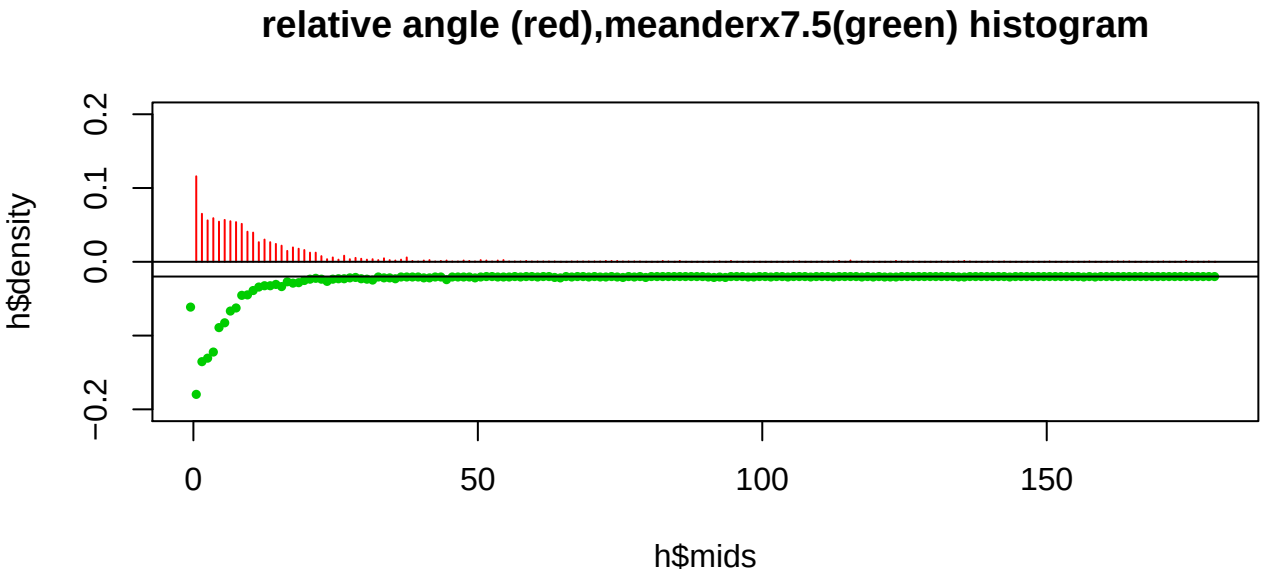

speed average per sec: 119_CSTZ
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

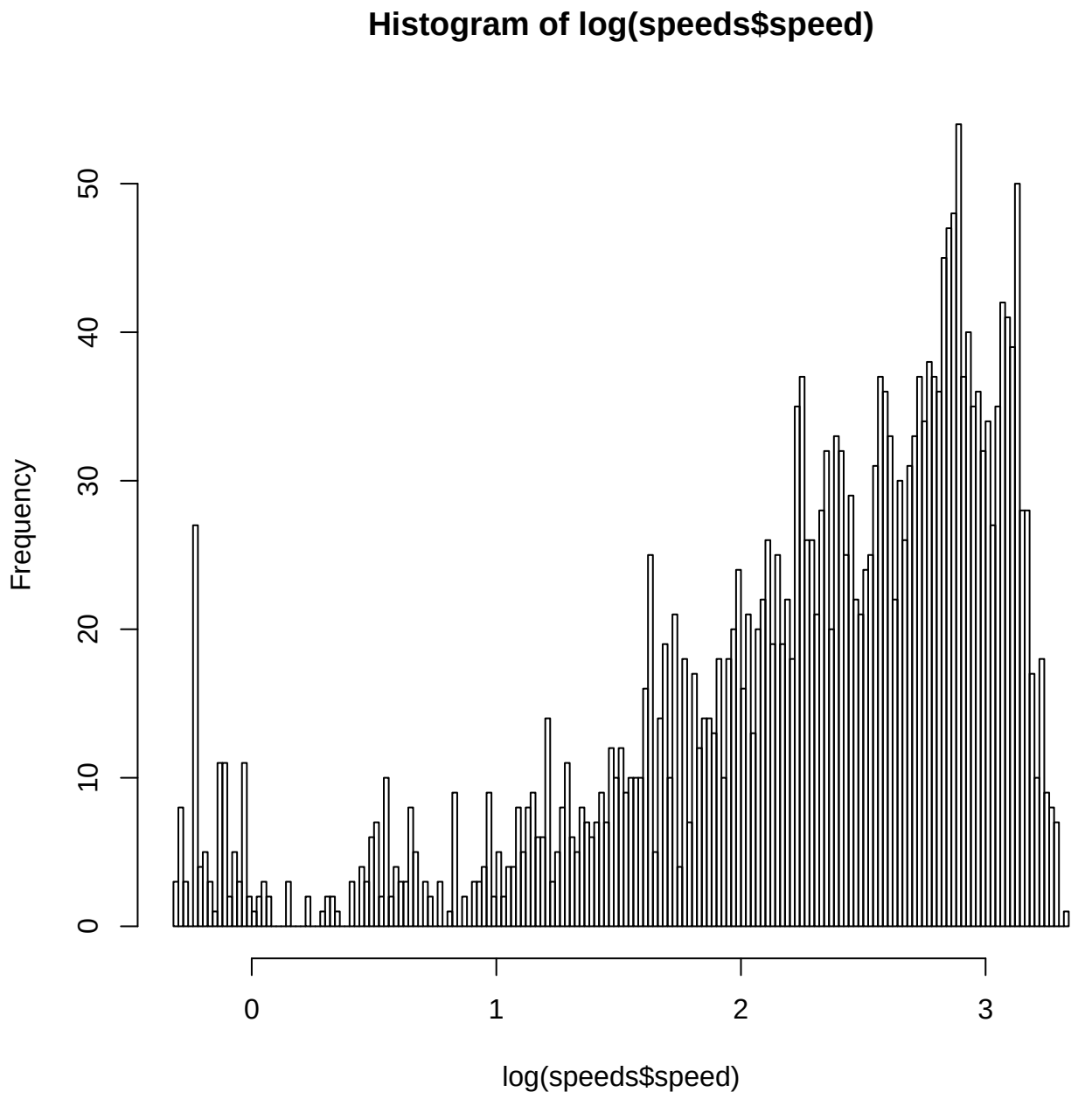

speed average per sec: 119_CSTZ
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

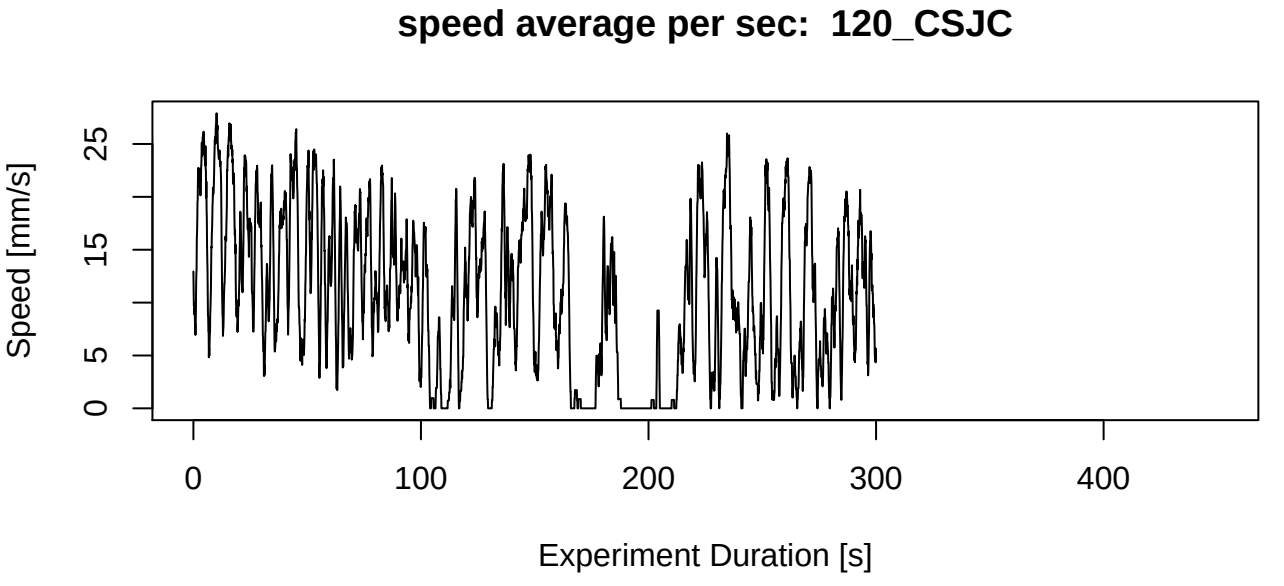

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

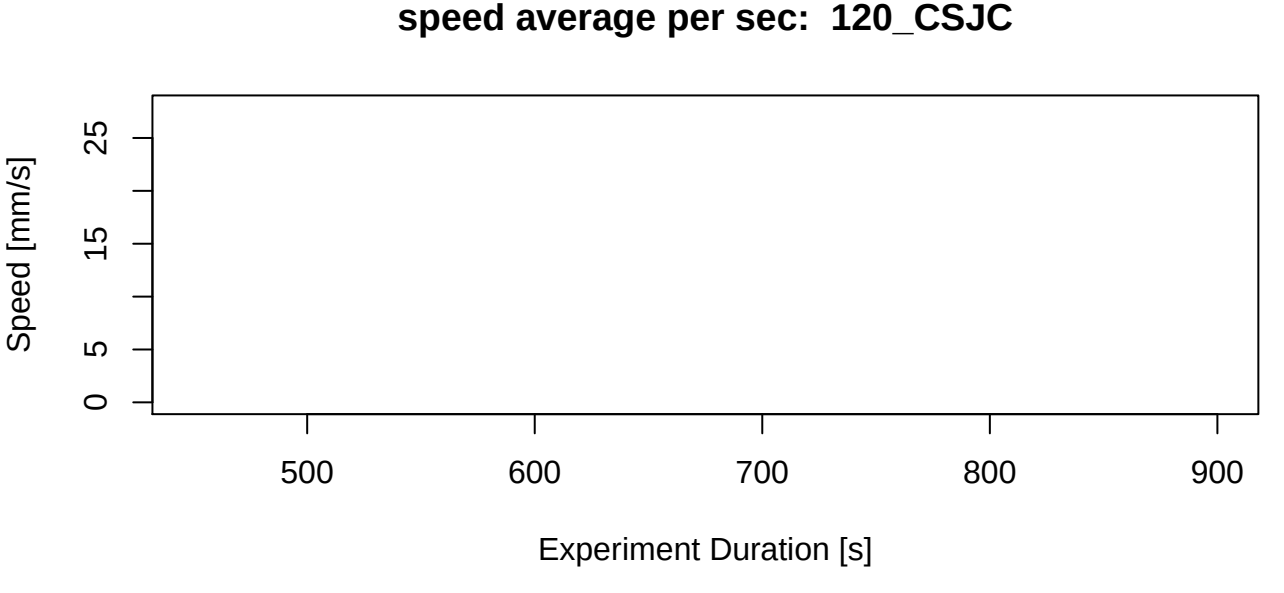

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

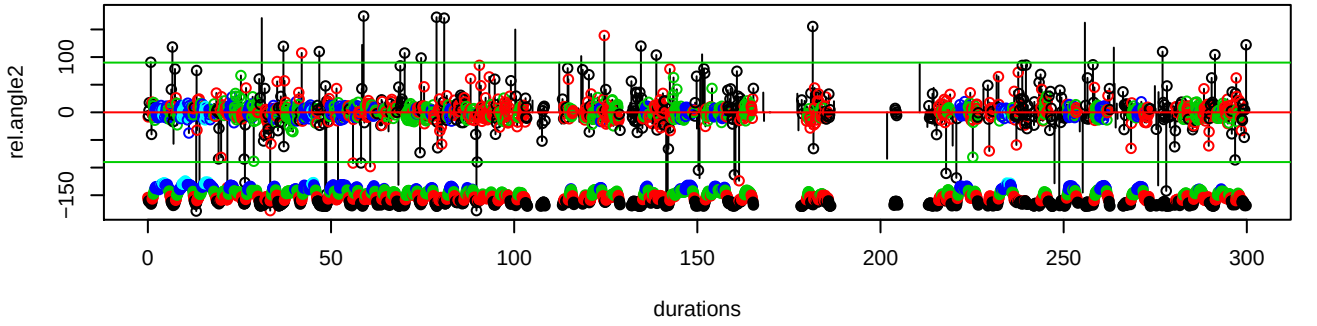

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

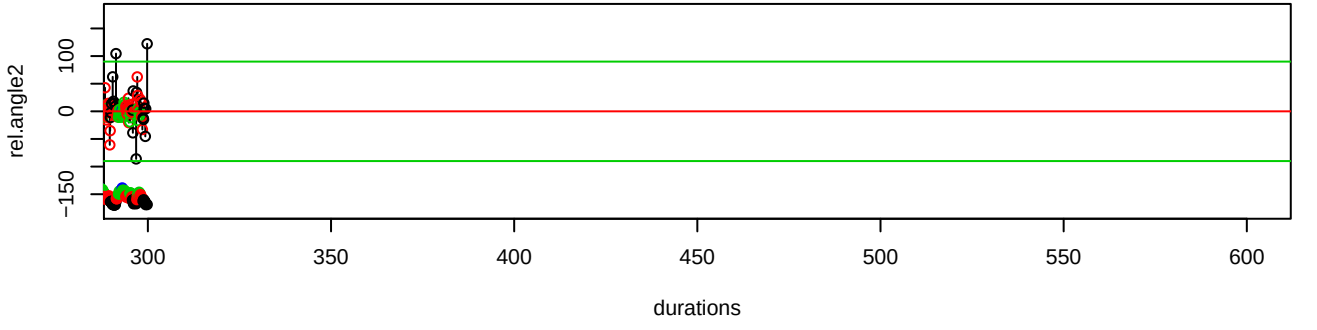

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

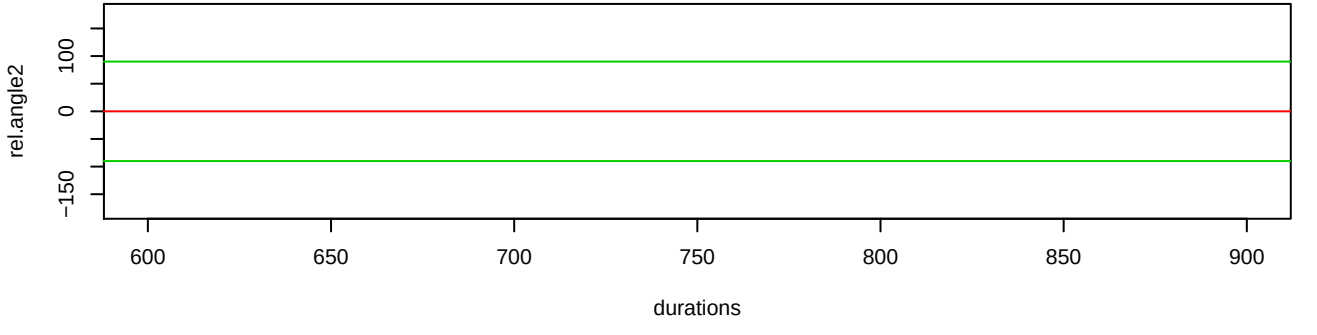

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0
1
2
3
log(speeds$speed)

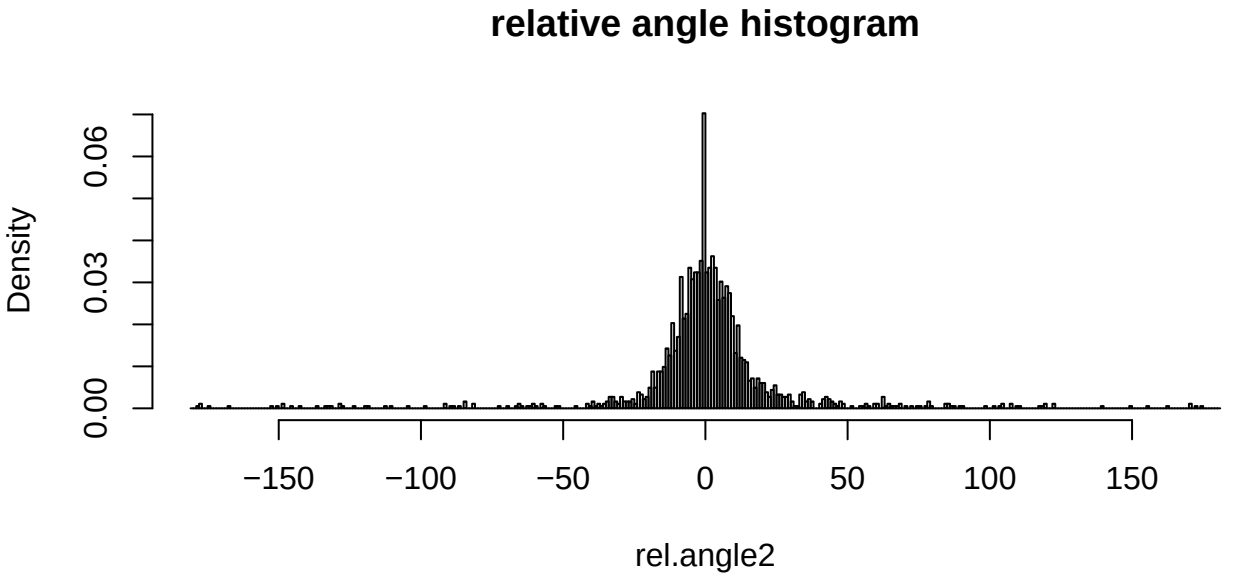

speed average per sec: 120_CSJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

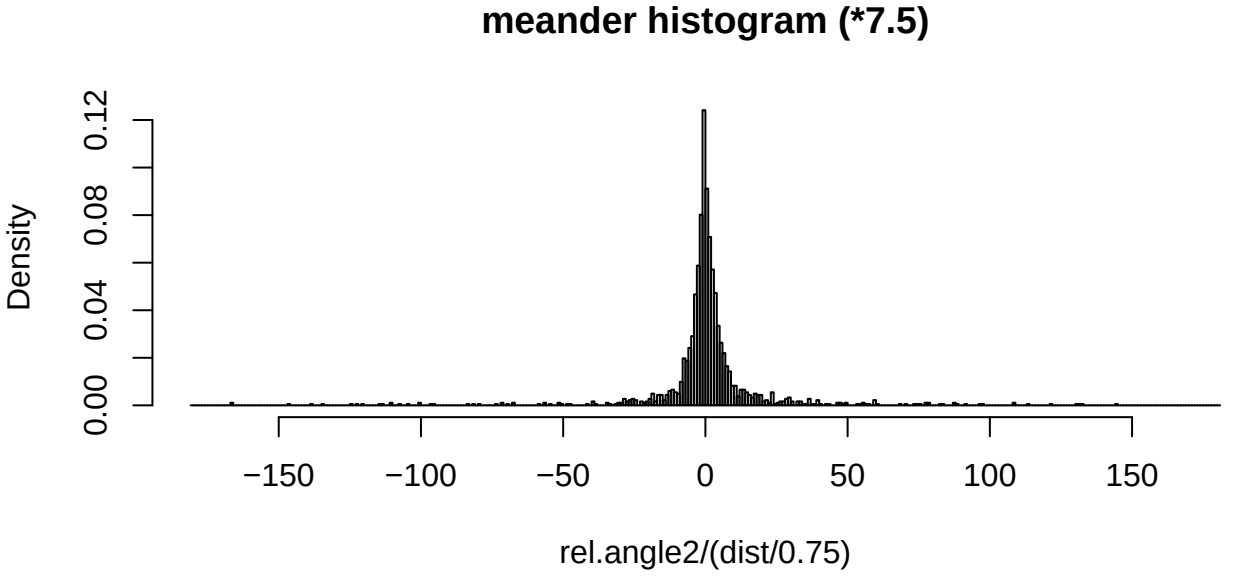

speed average per sec: 120_CSJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

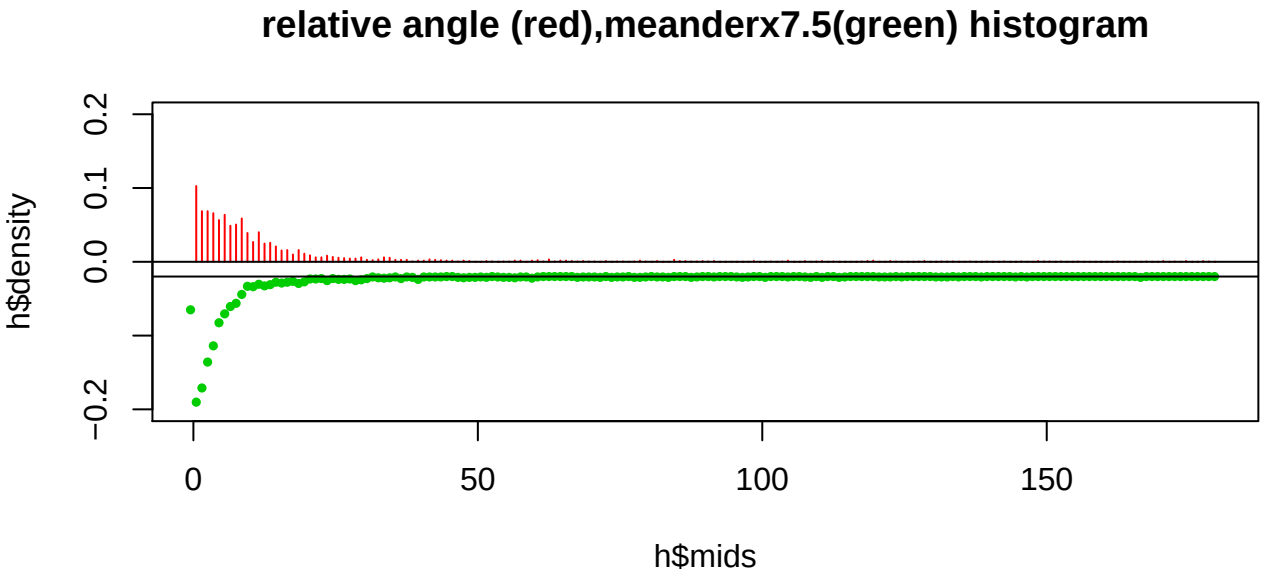

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

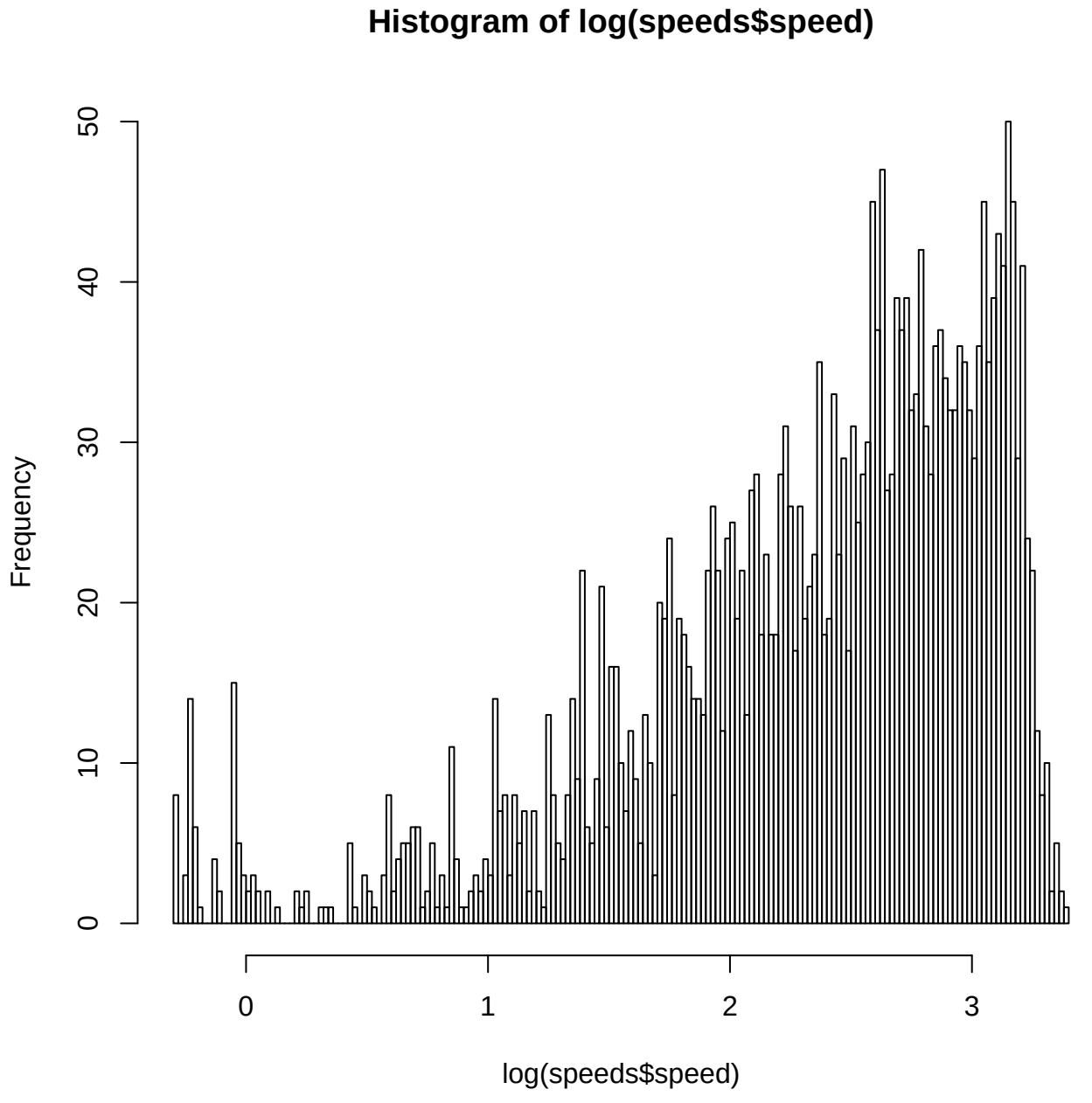

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

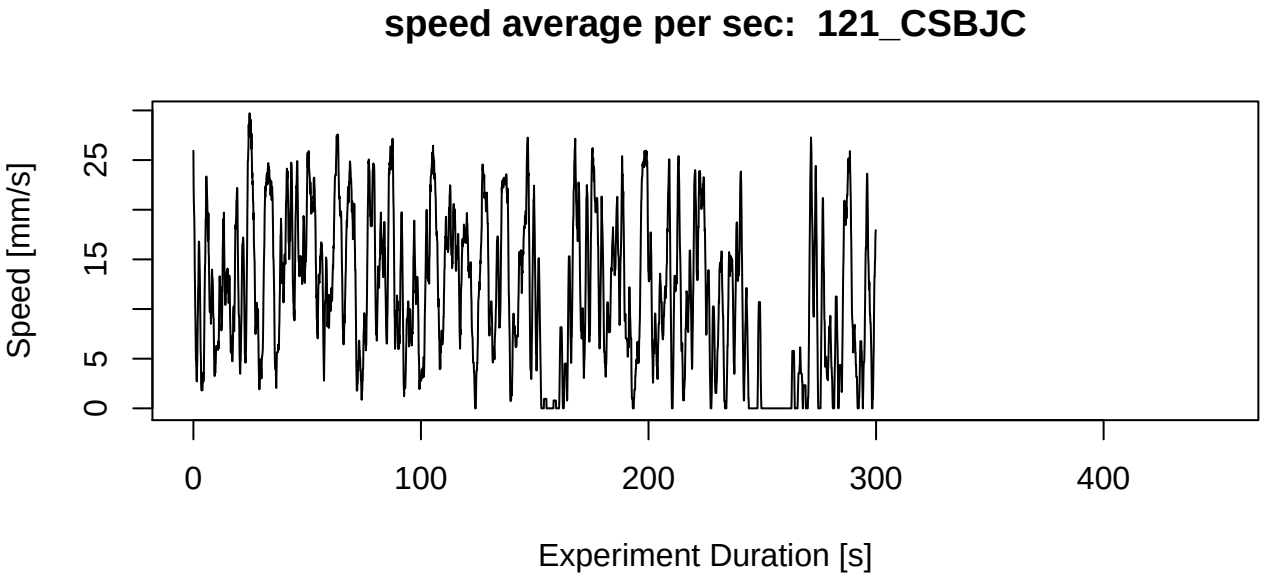

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

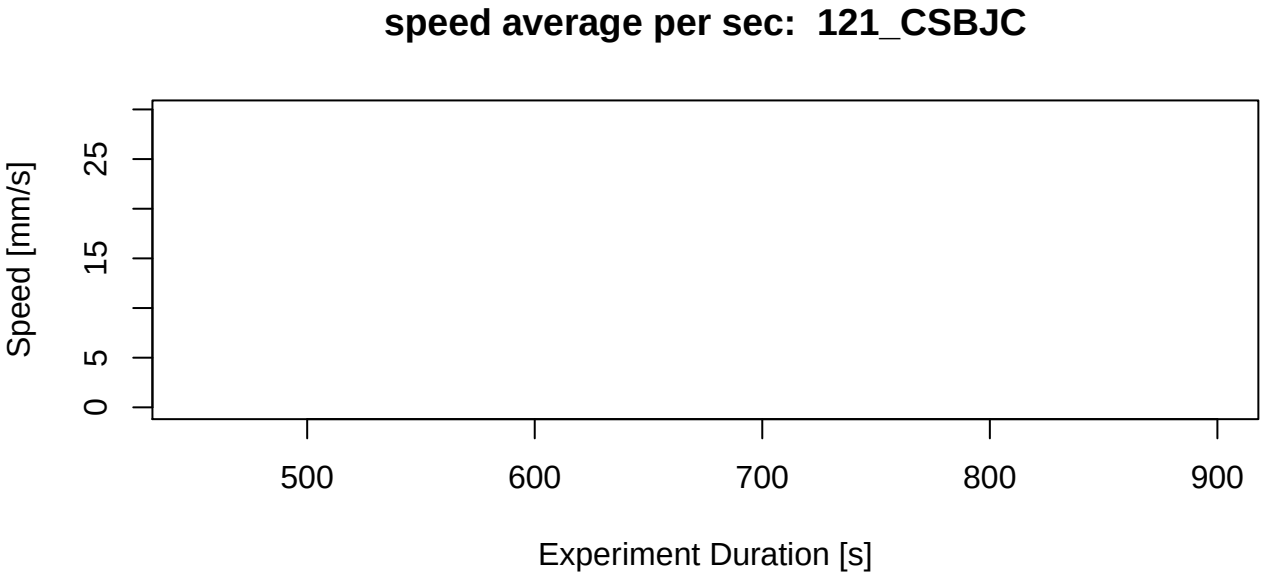

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

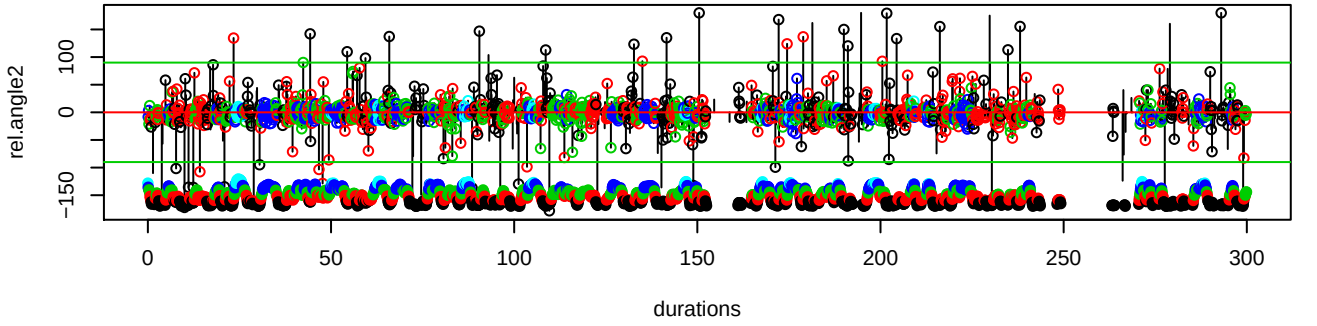

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

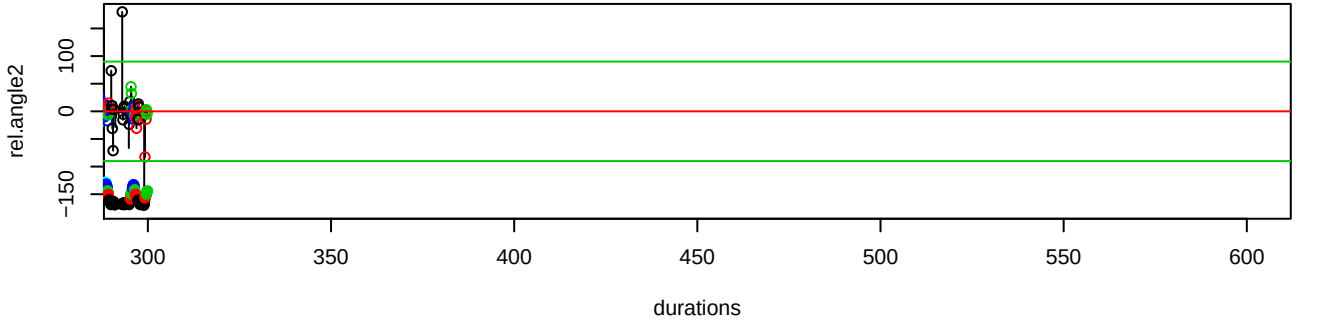

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

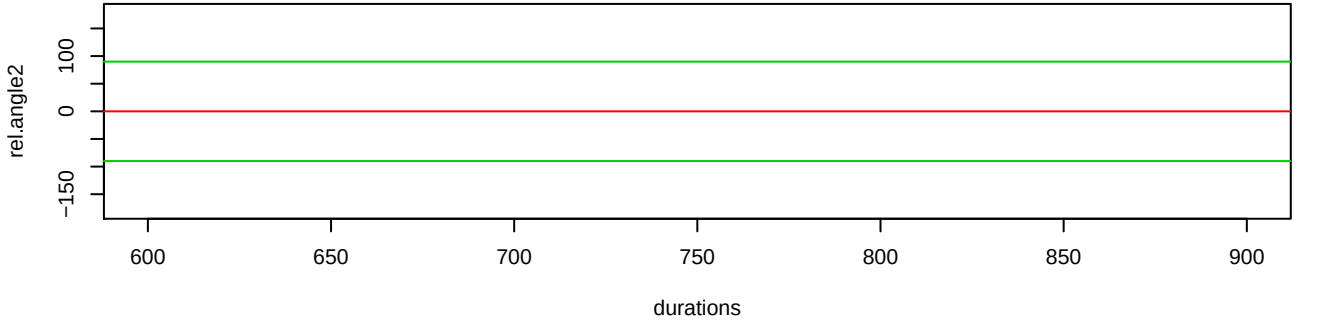

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0
1
2
3
log(speeds$speed)

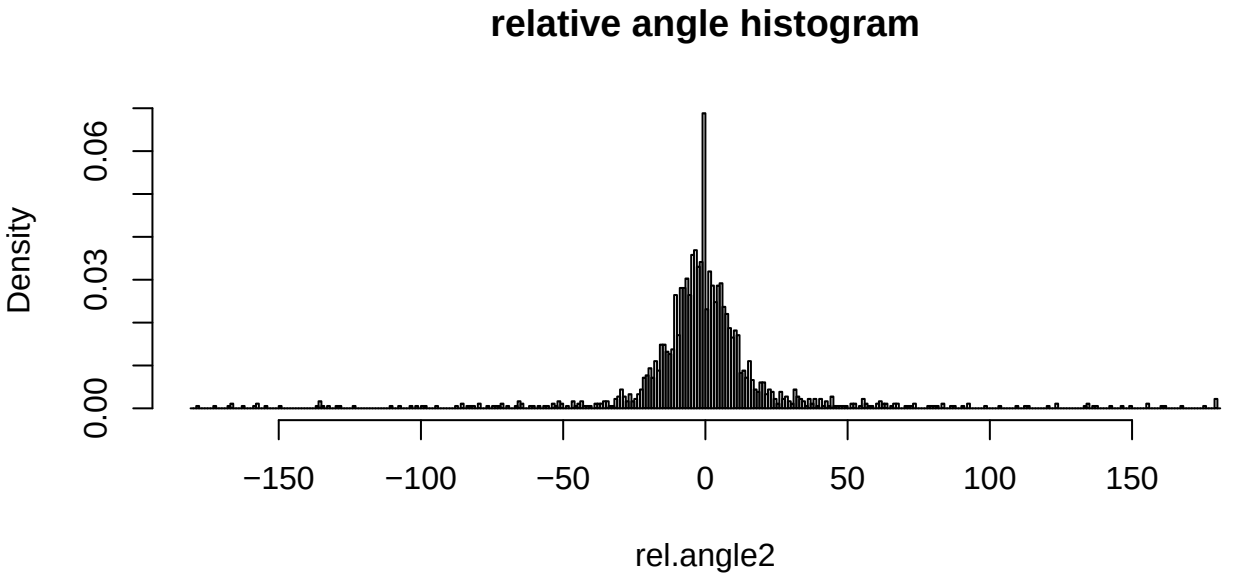

speed average per sec: 121_CSBJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

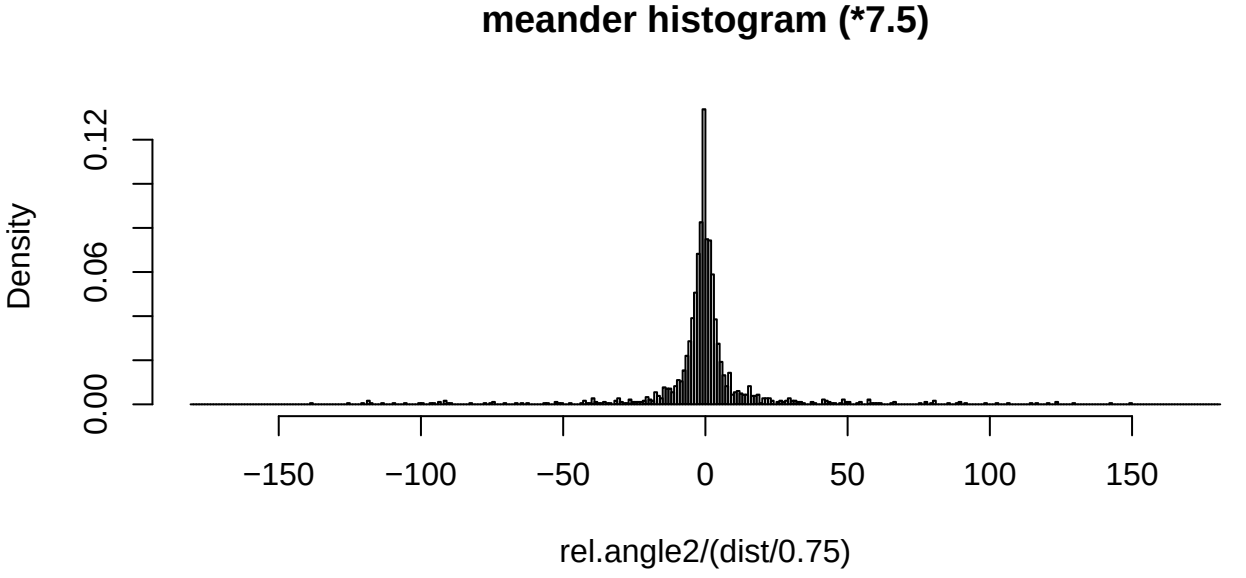

speed average per sec: 121_CSBJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

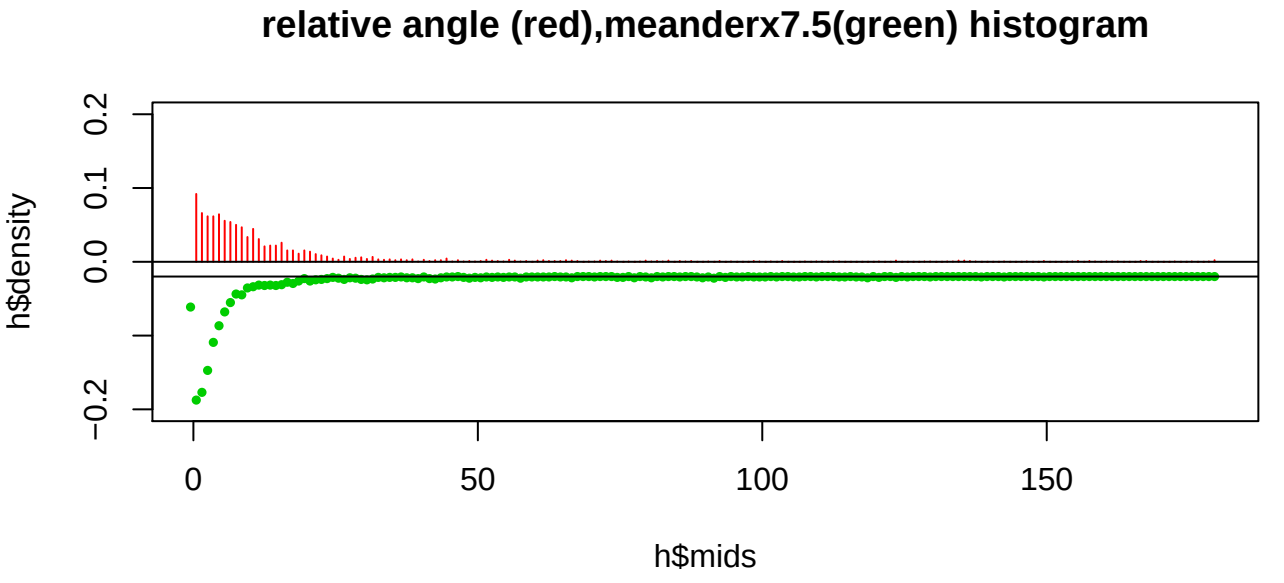

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

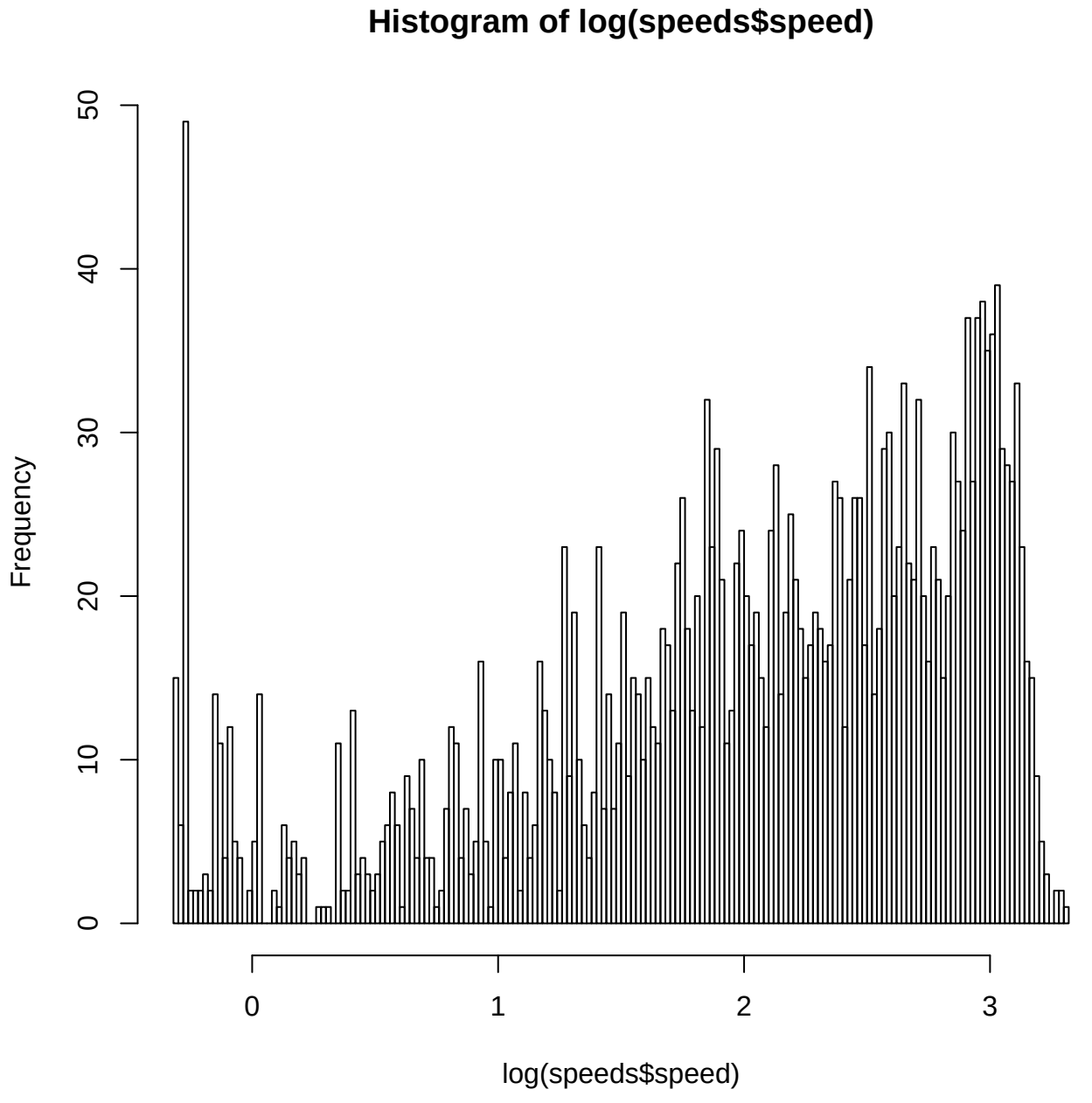

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

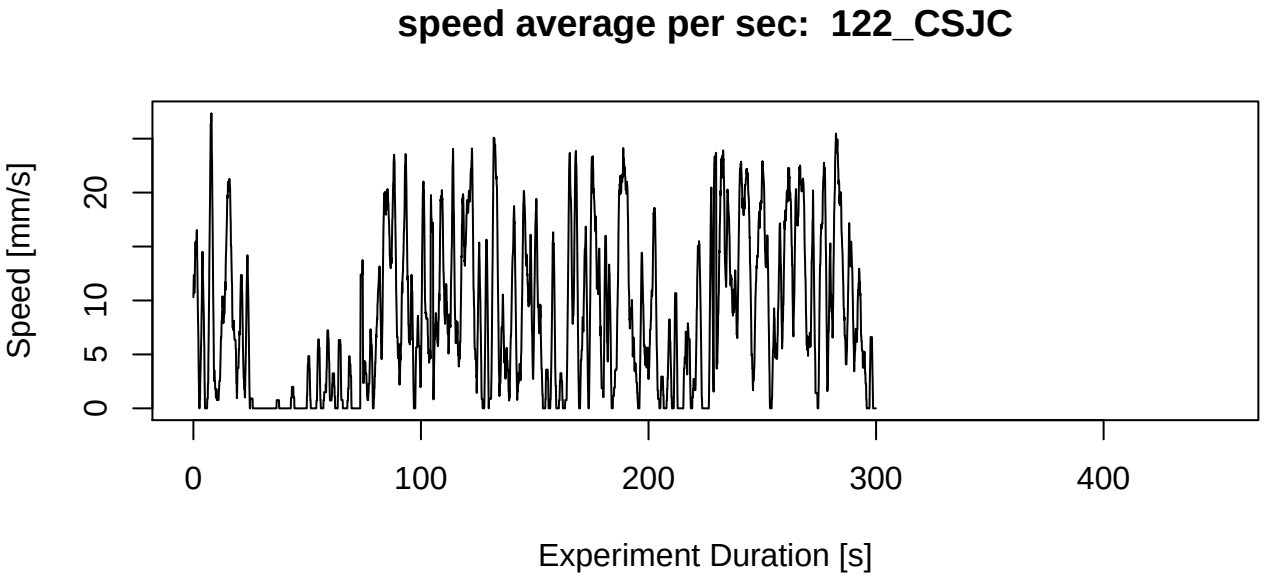

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

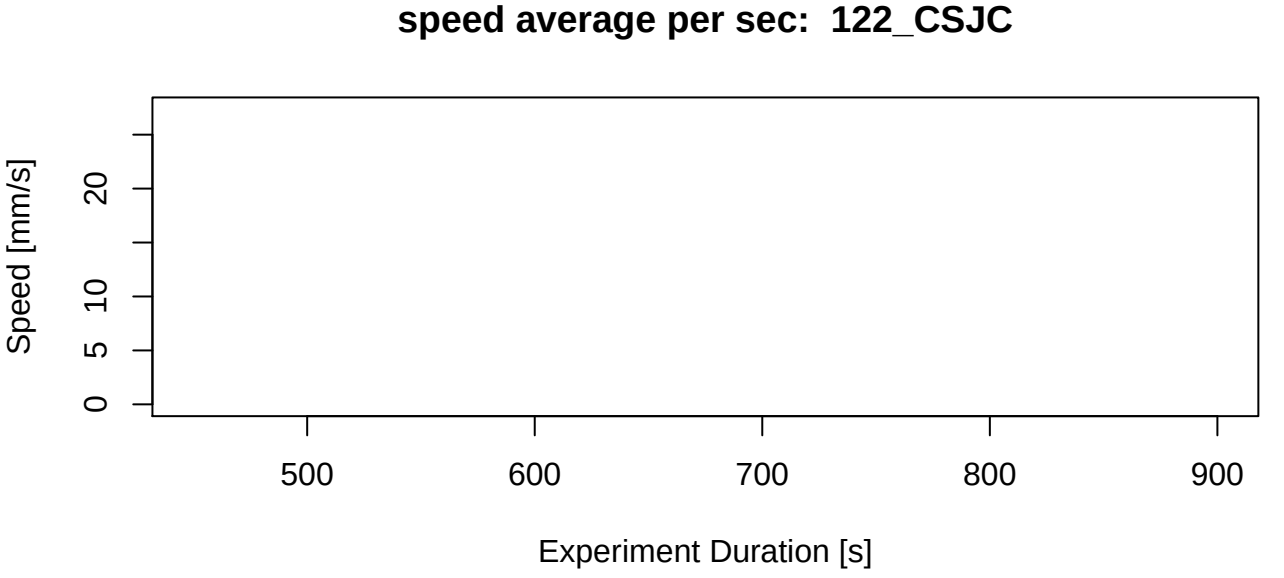

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

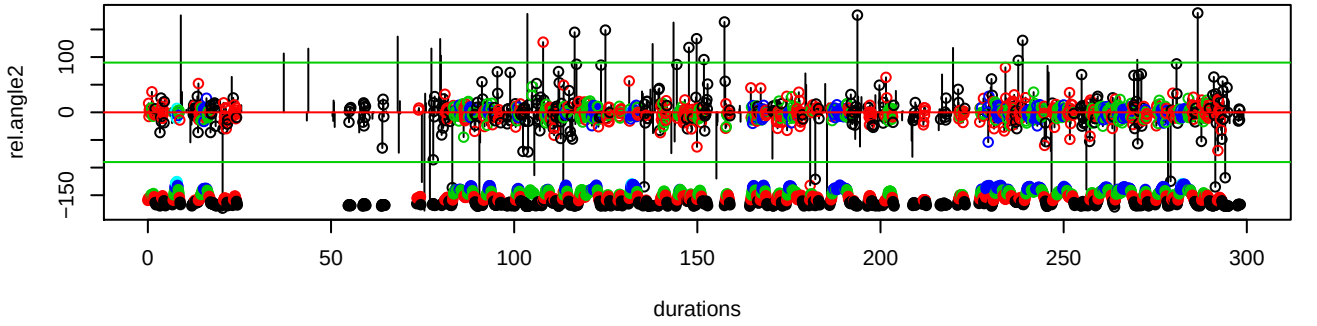

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

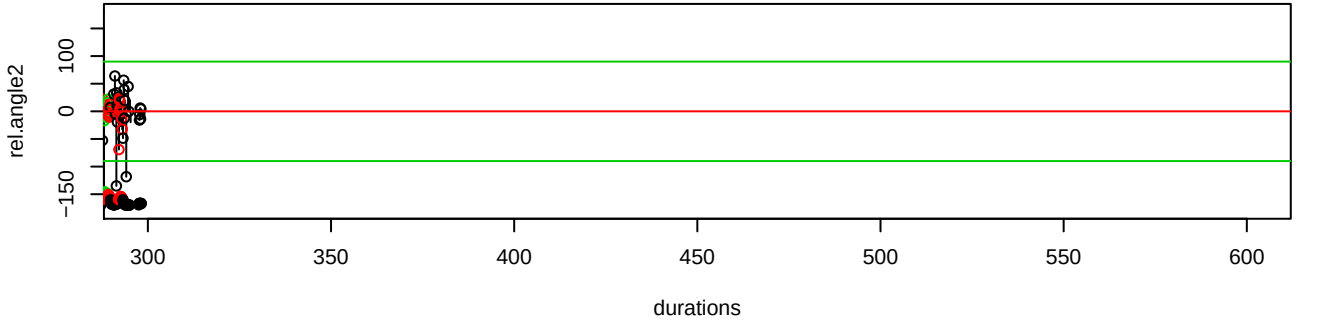

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

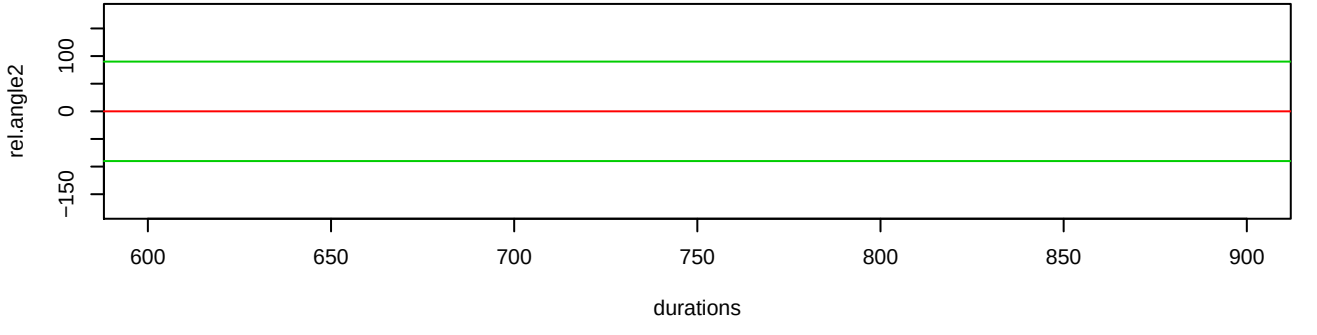

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0
1
2
3
log(speeds$speed)

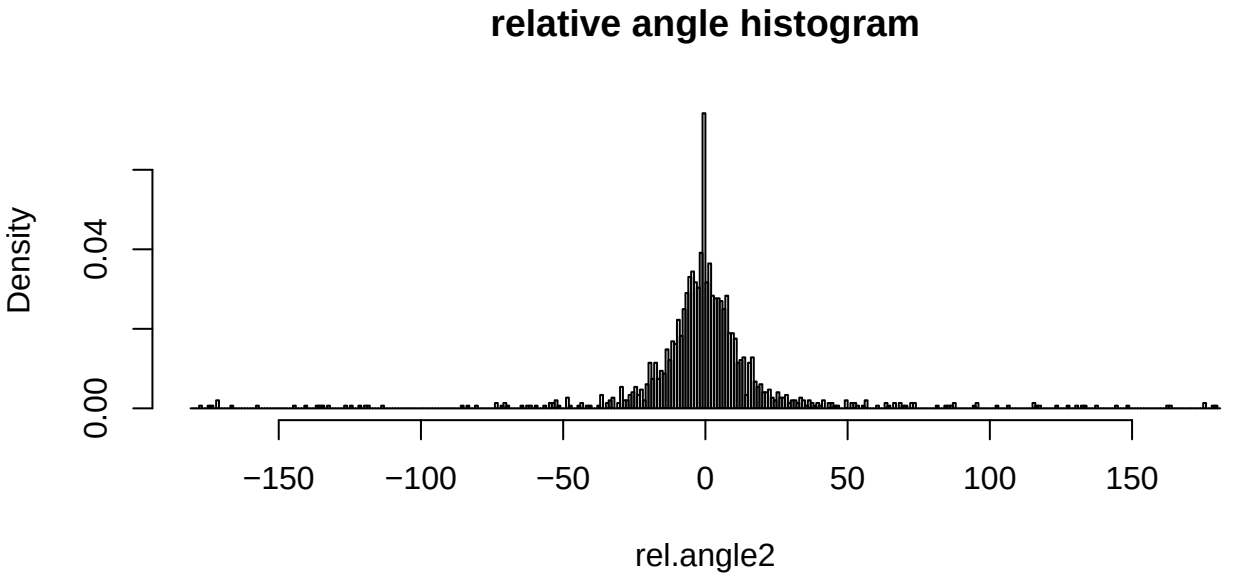

speed average per sec: 122_CSJC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

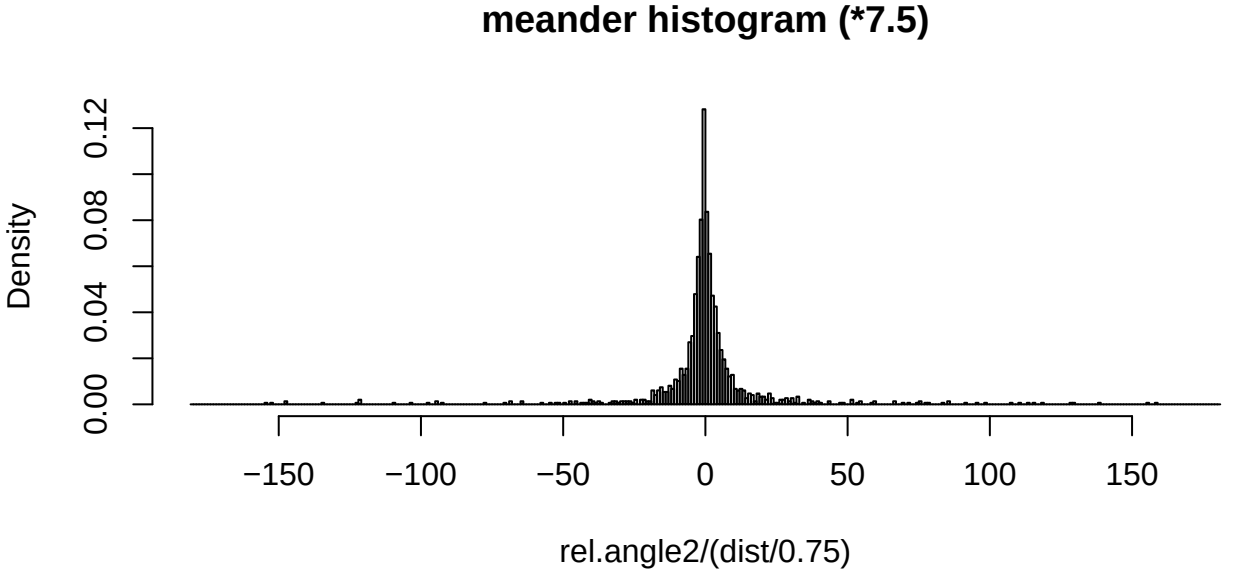

speed average per sec: 122_CSJC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

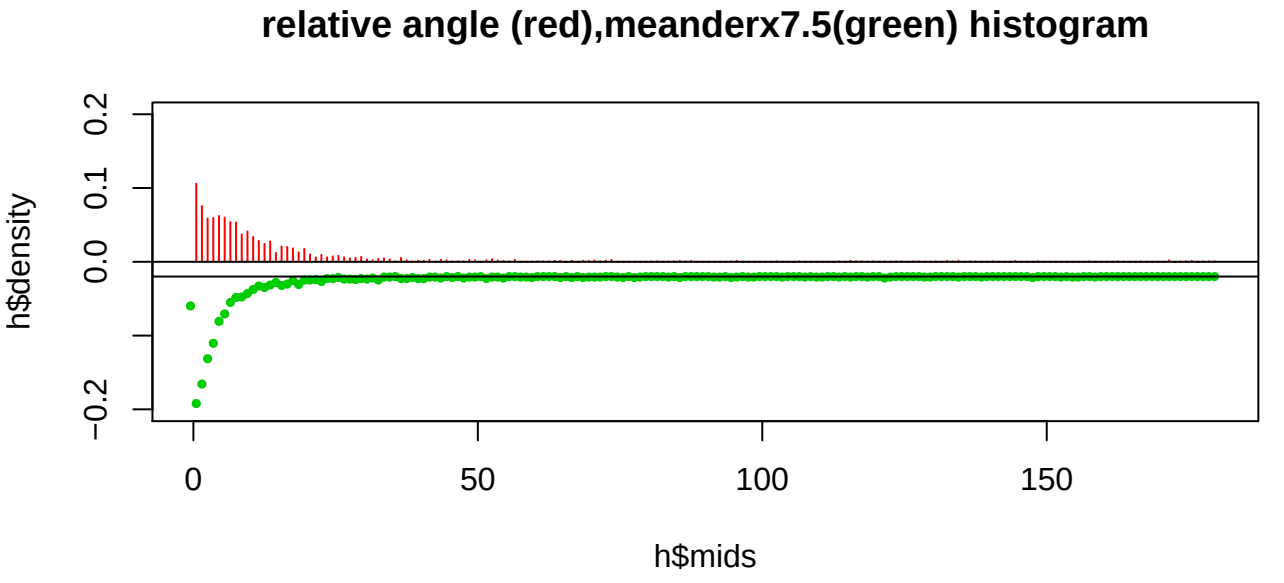

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

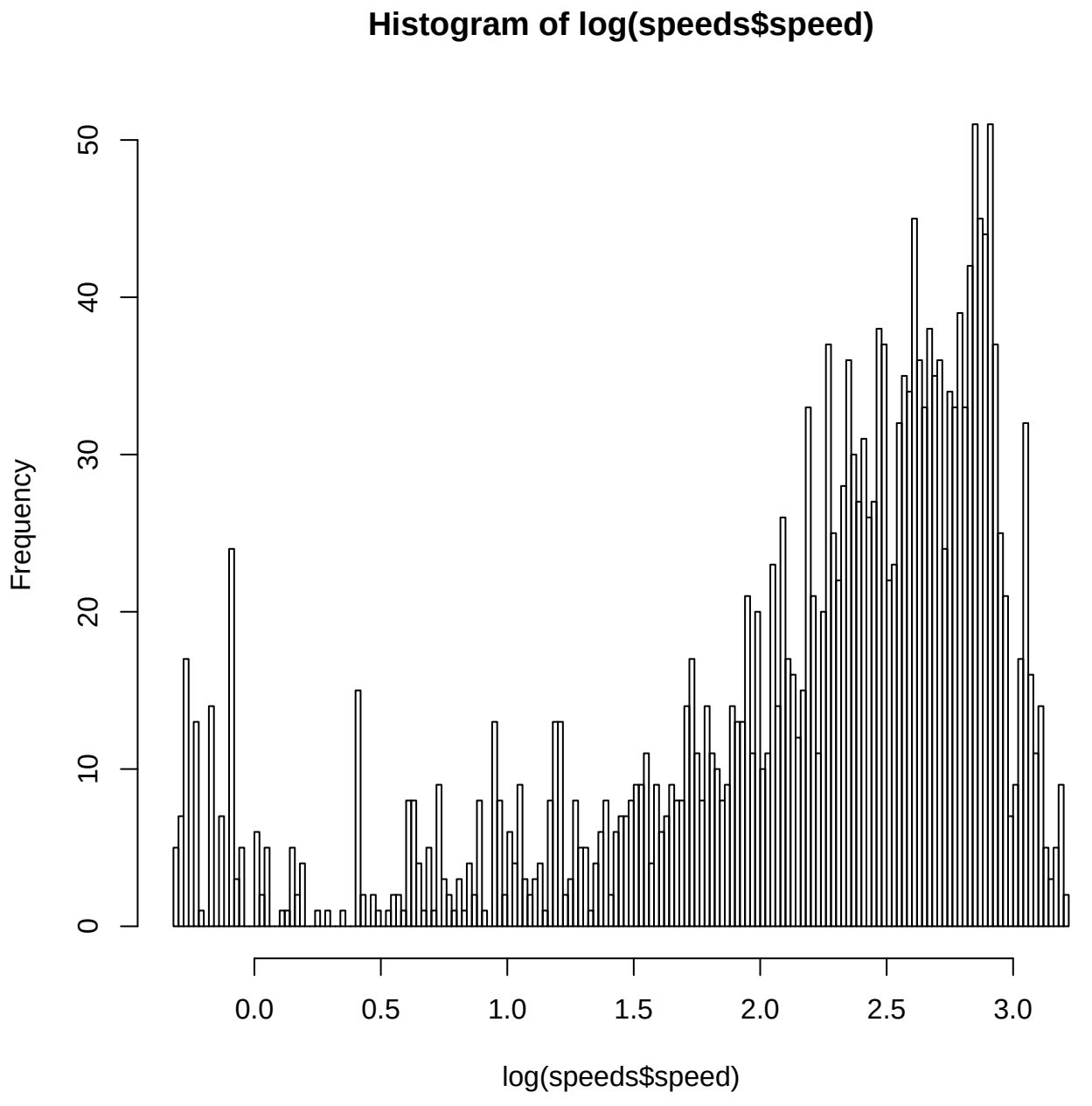

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

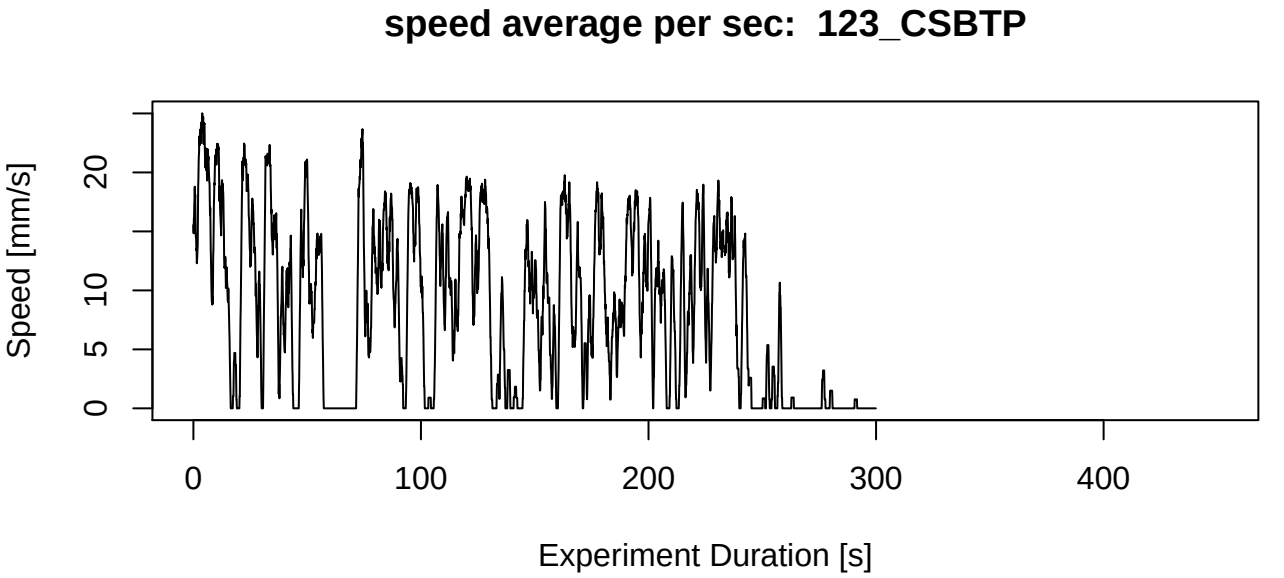

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

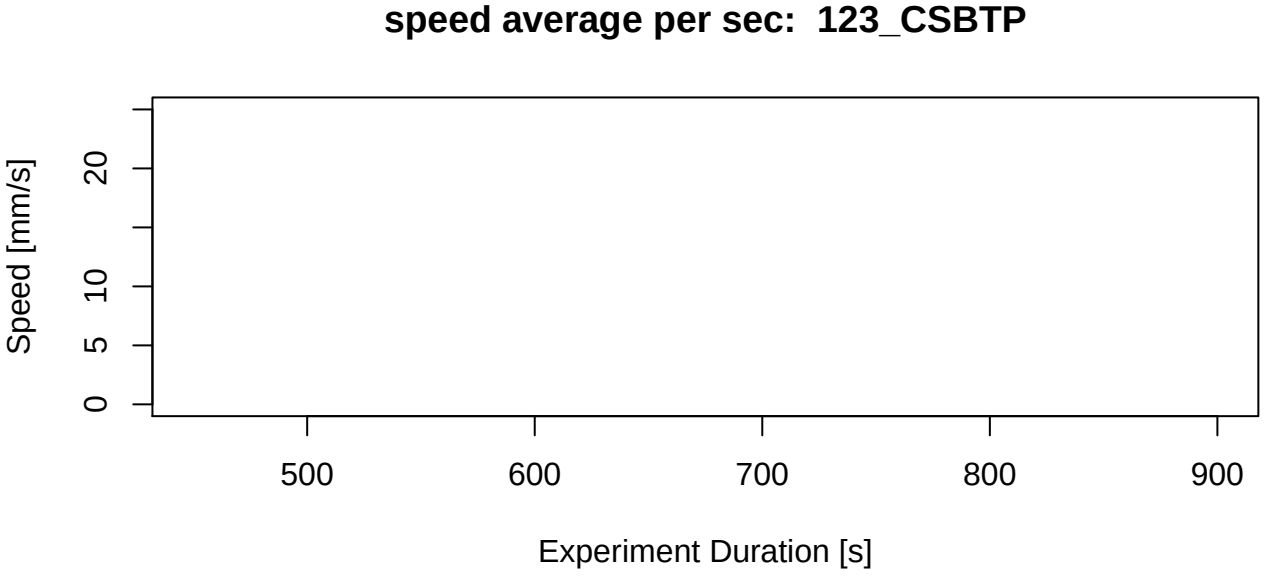

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

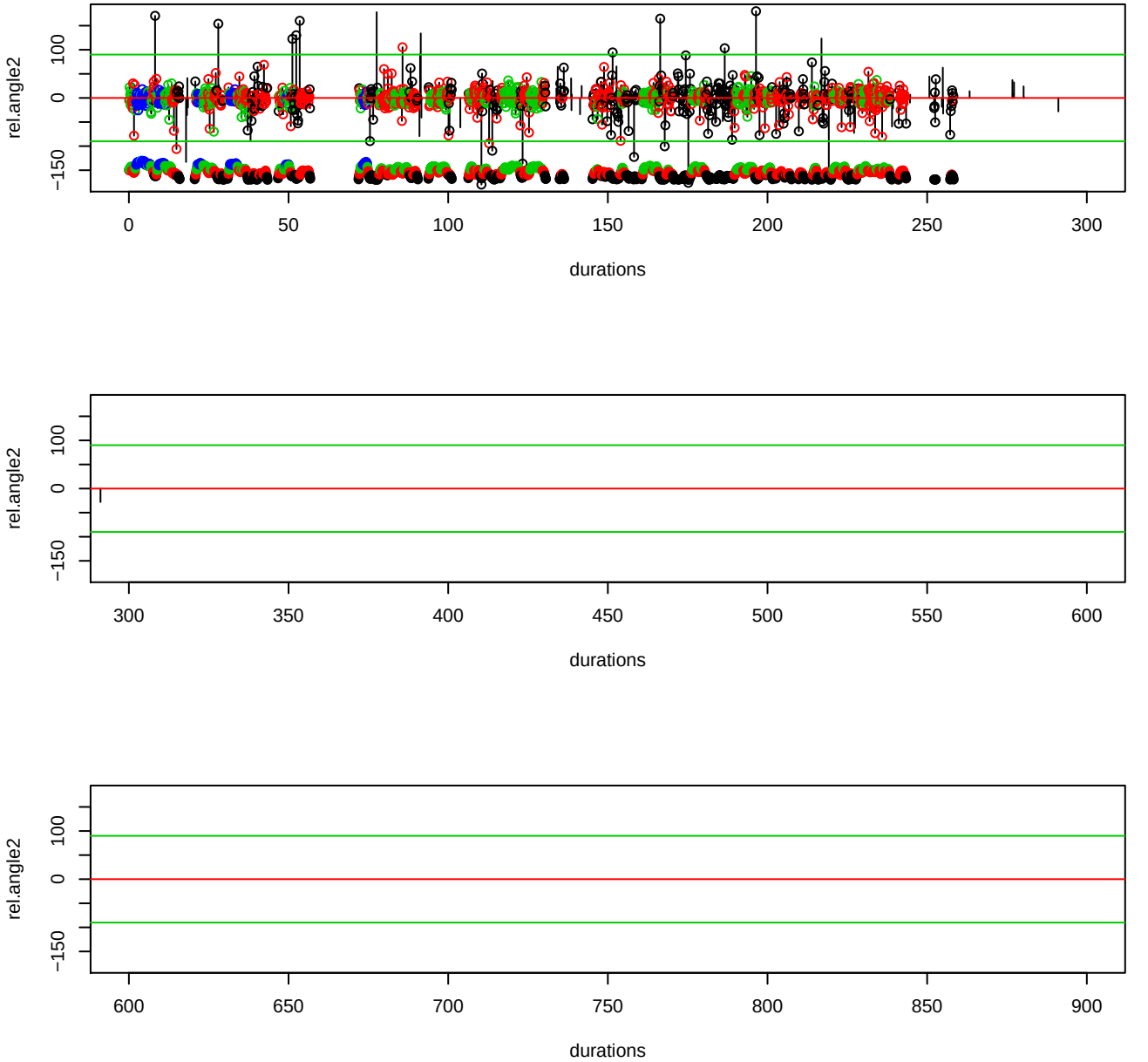

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

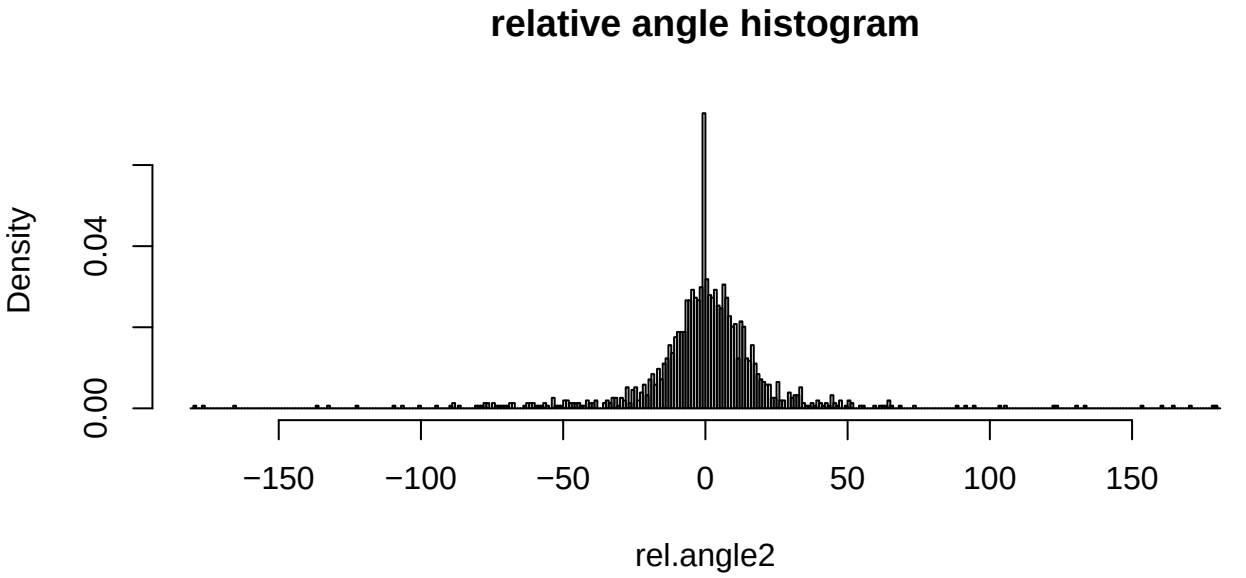

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

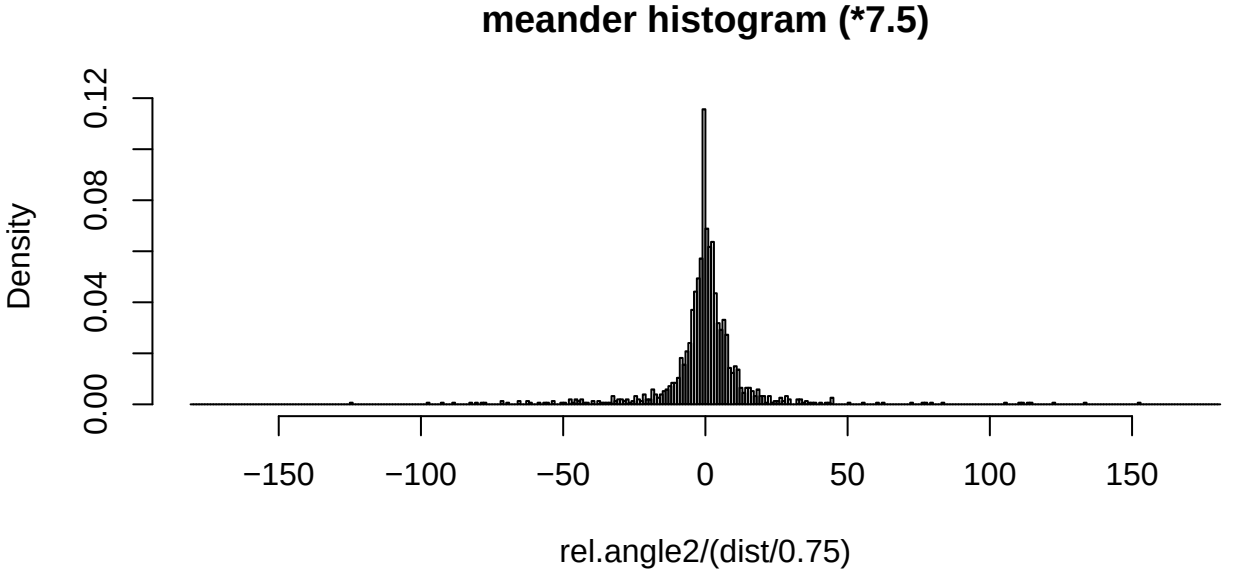

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

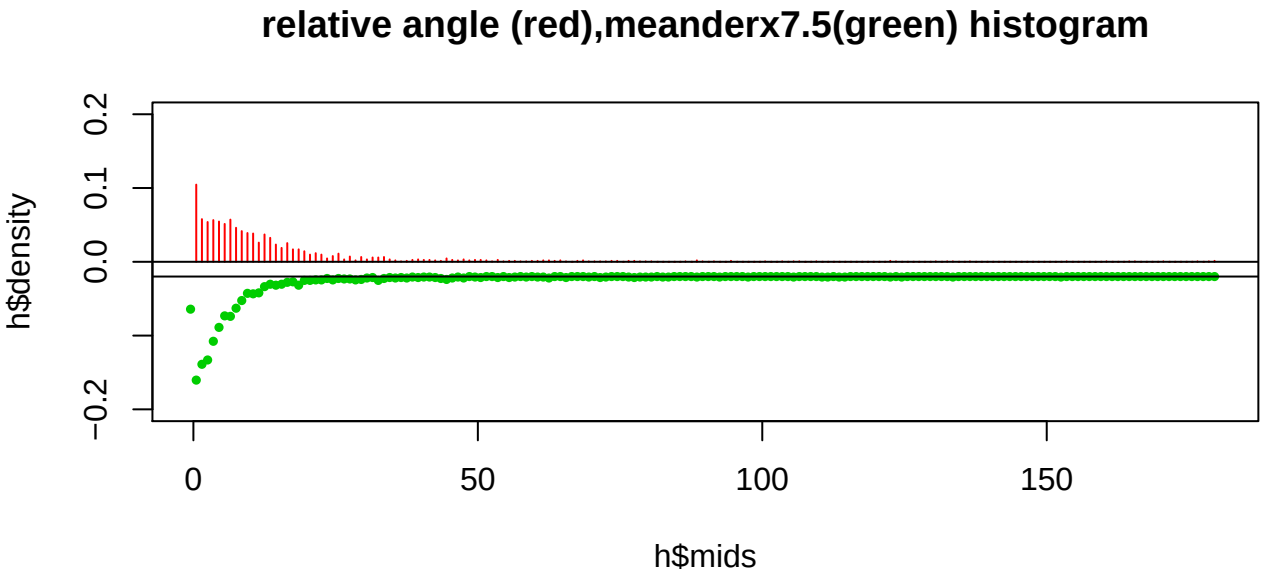

speed average per sec: 123_CSBTP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

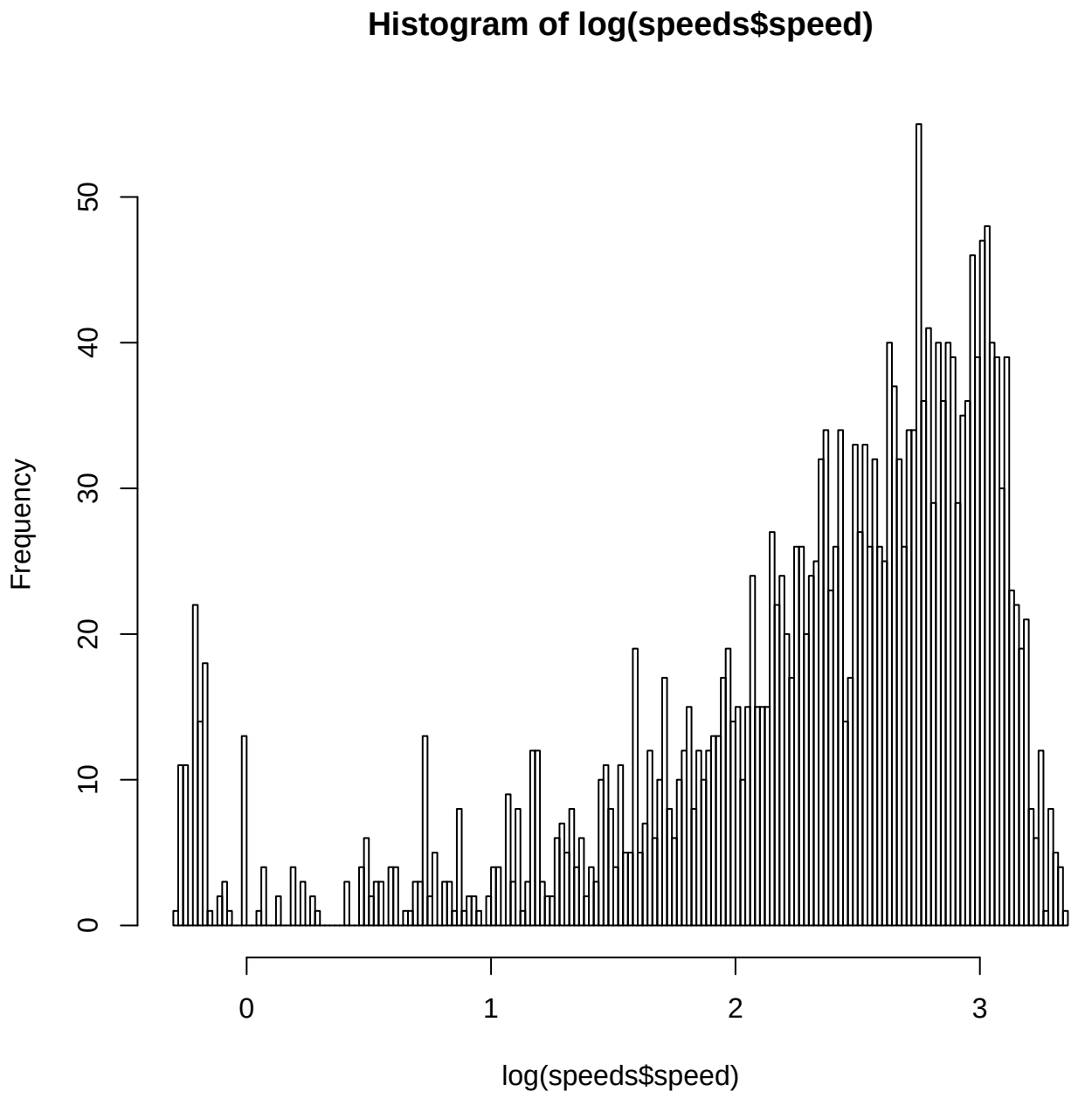

speed average per sec: 123_CSBTP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

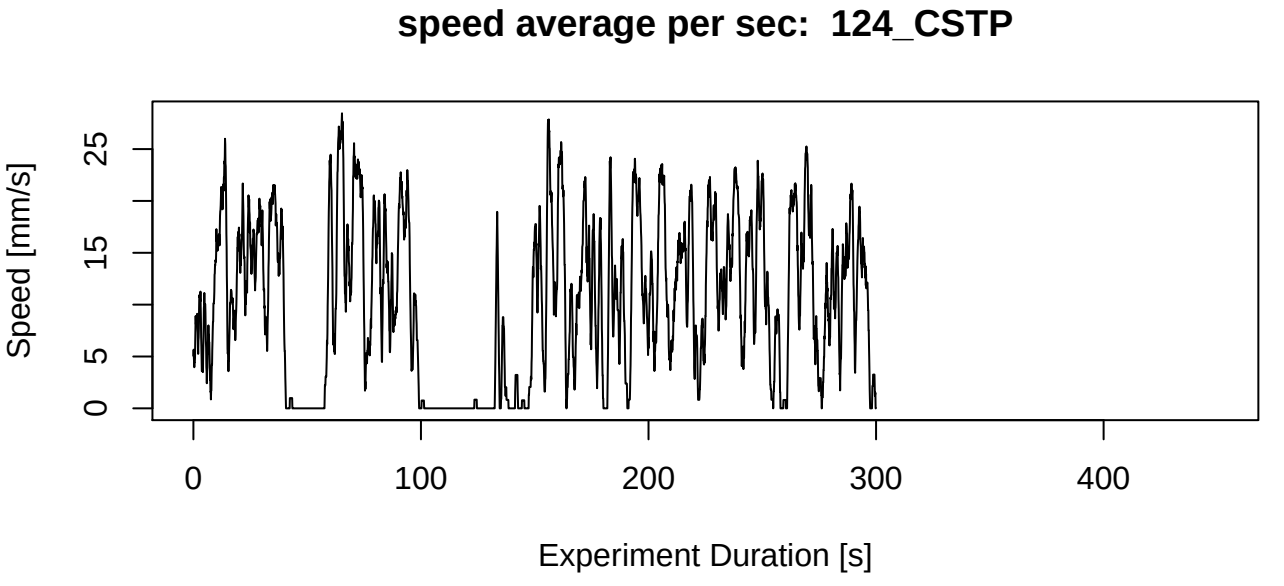

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

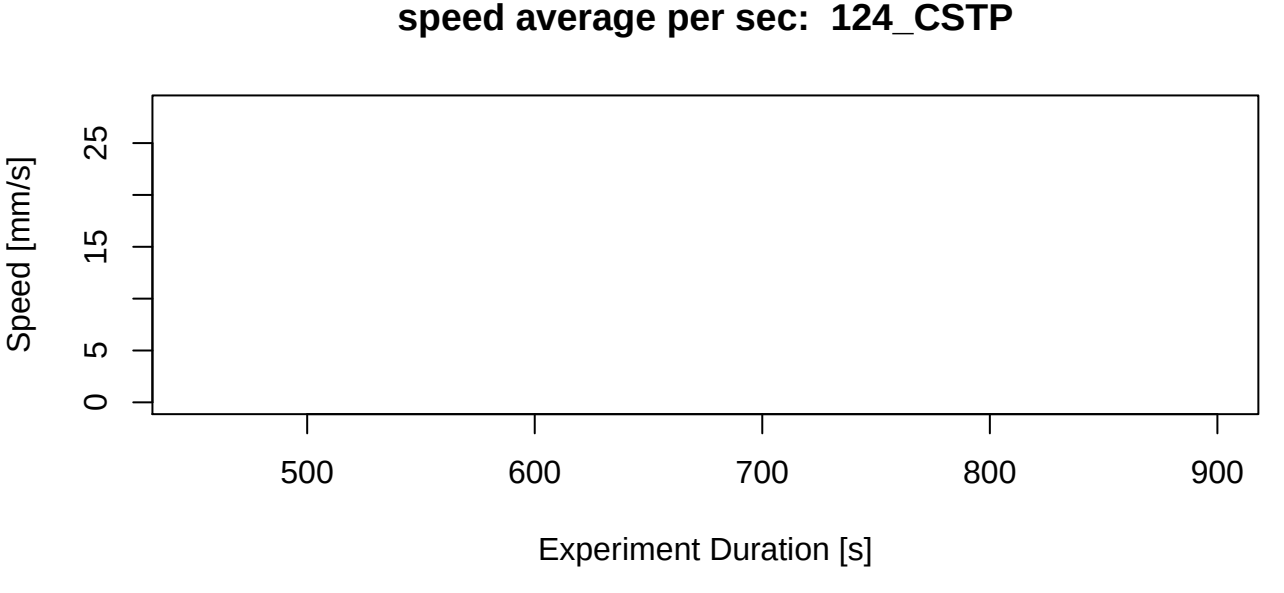

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

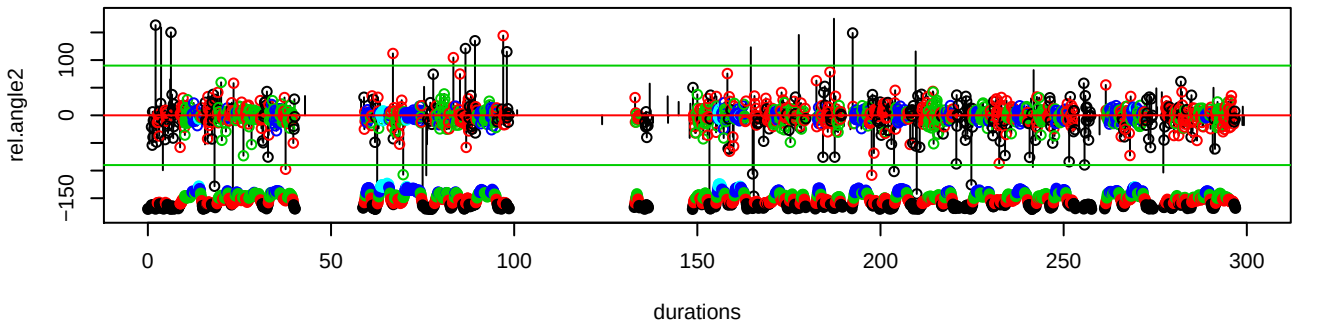

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

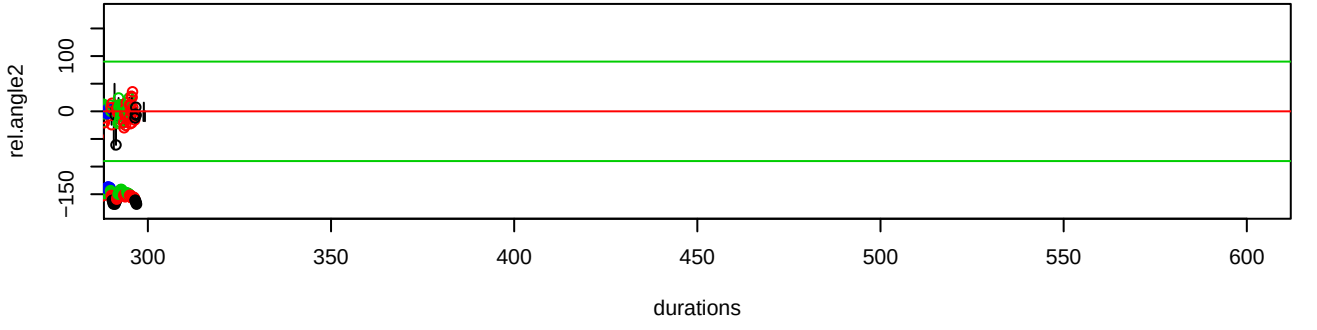

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

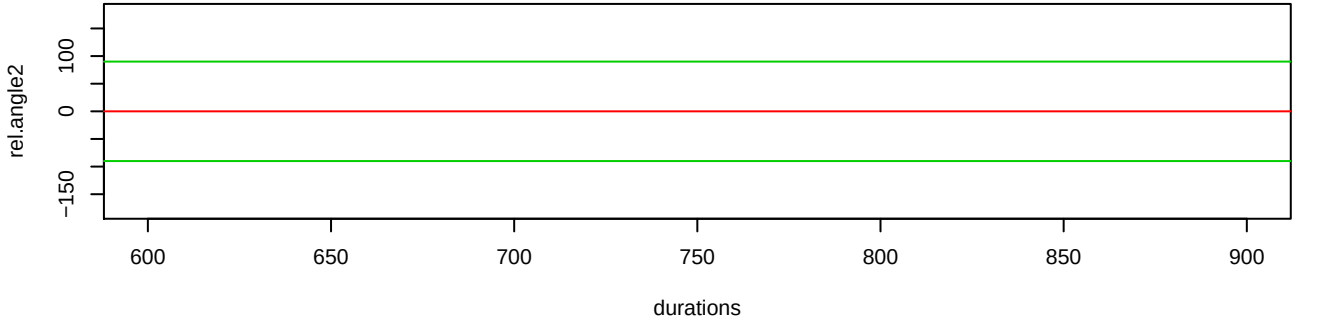

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0
1
2
3
log(speeds$speed)

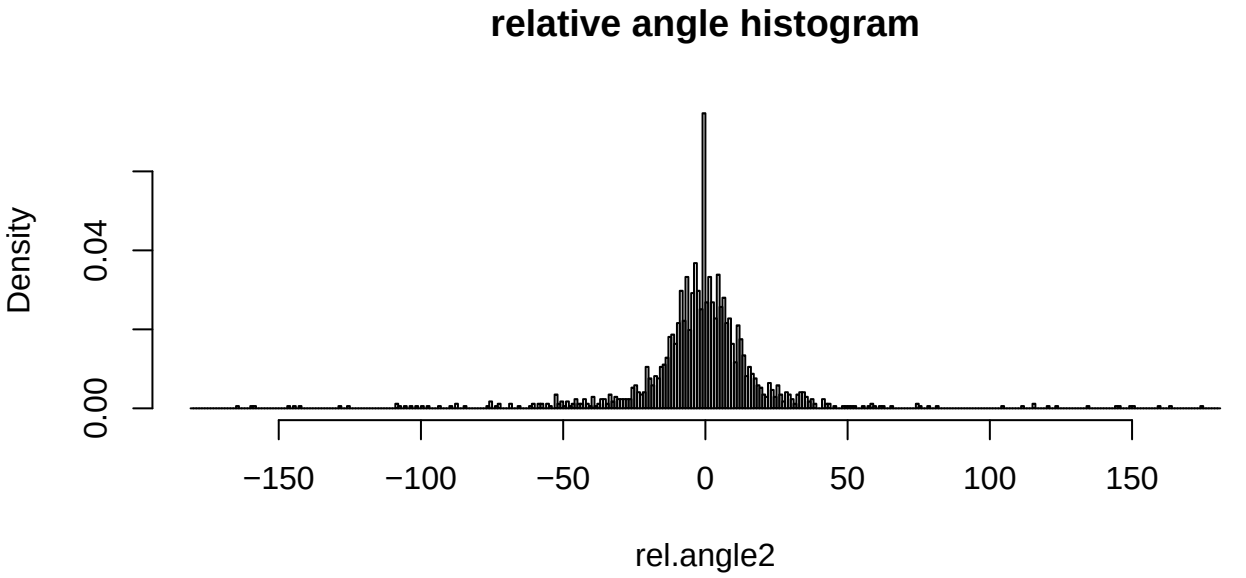

speed average per sec: 124_CSTP
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

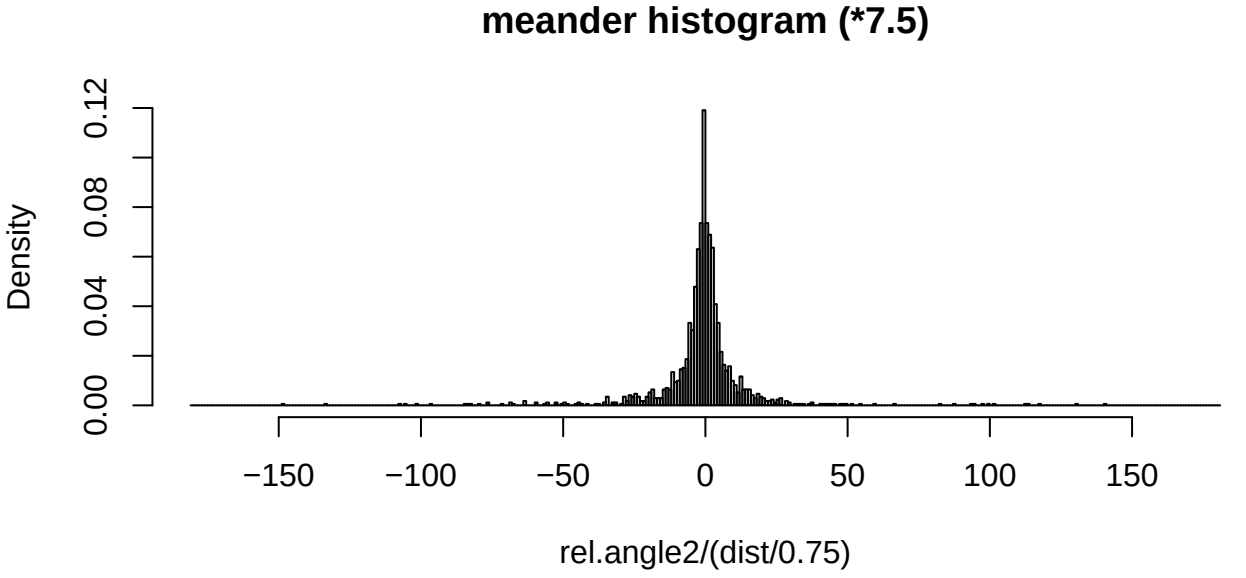

speed average per sec: 124_CSTP
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

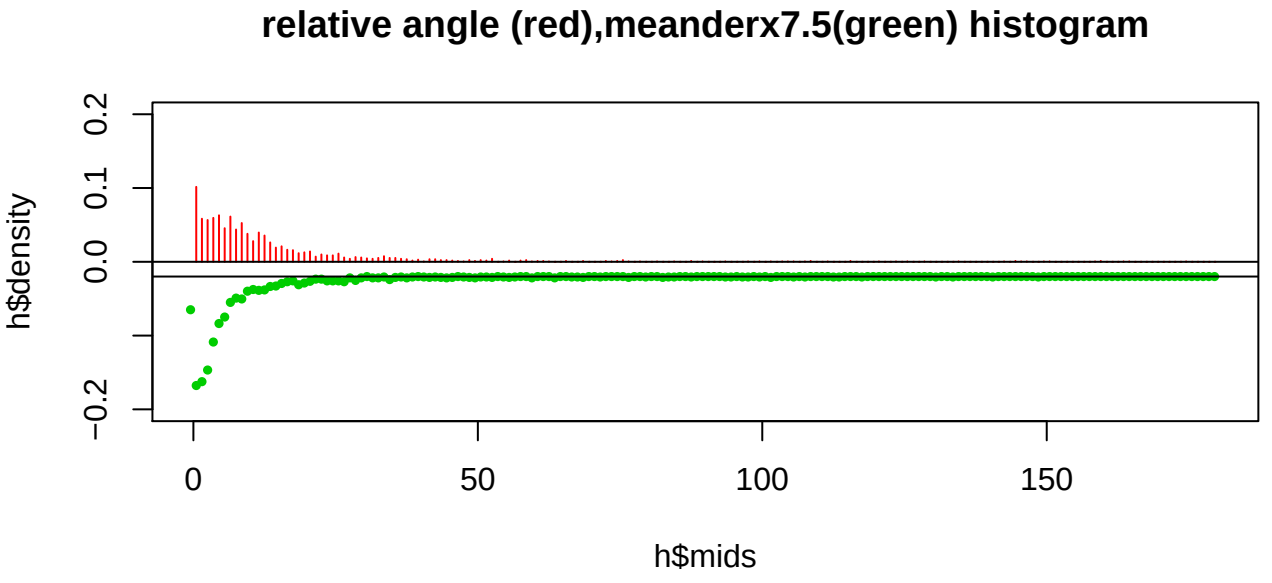

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

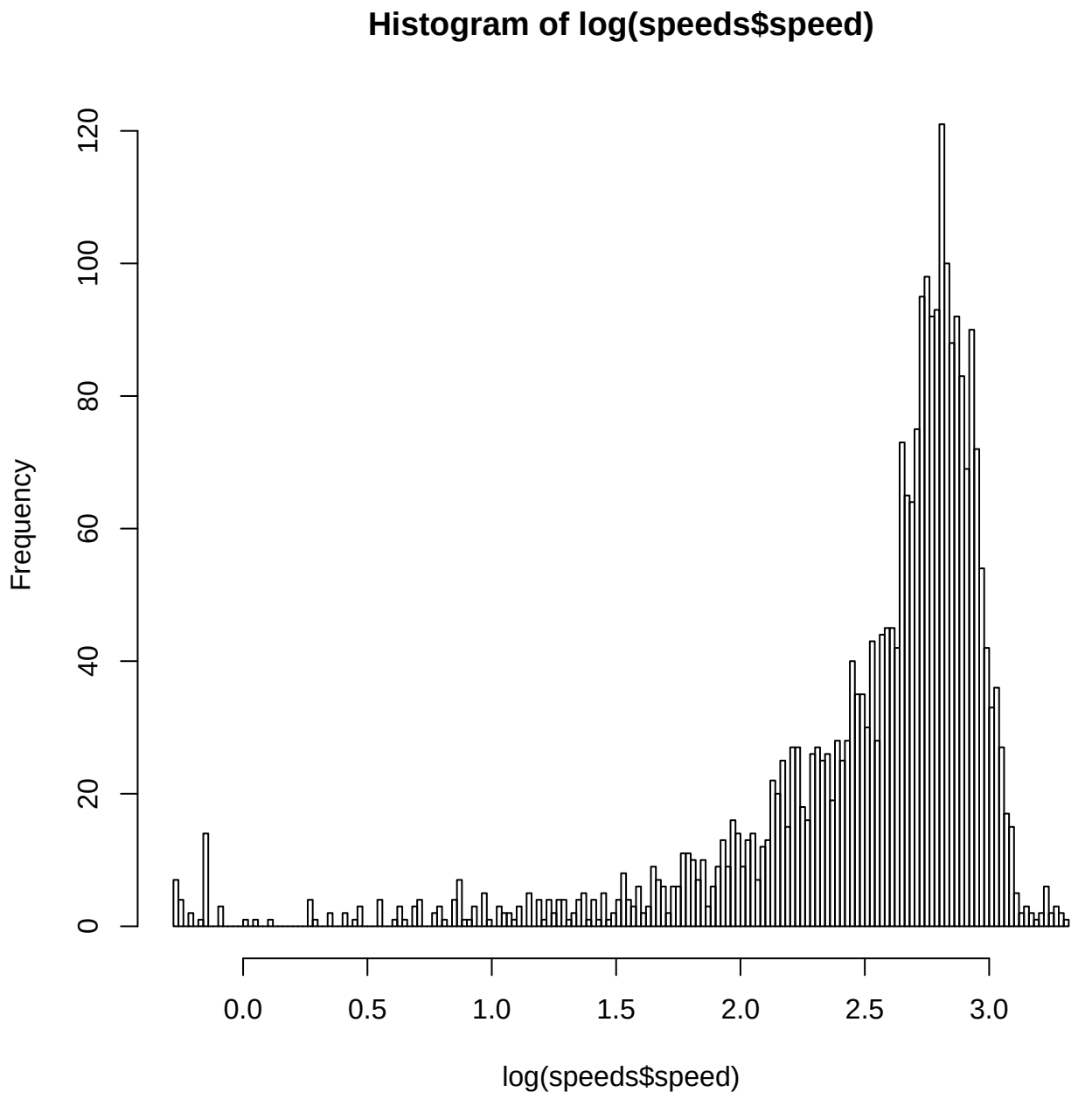

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

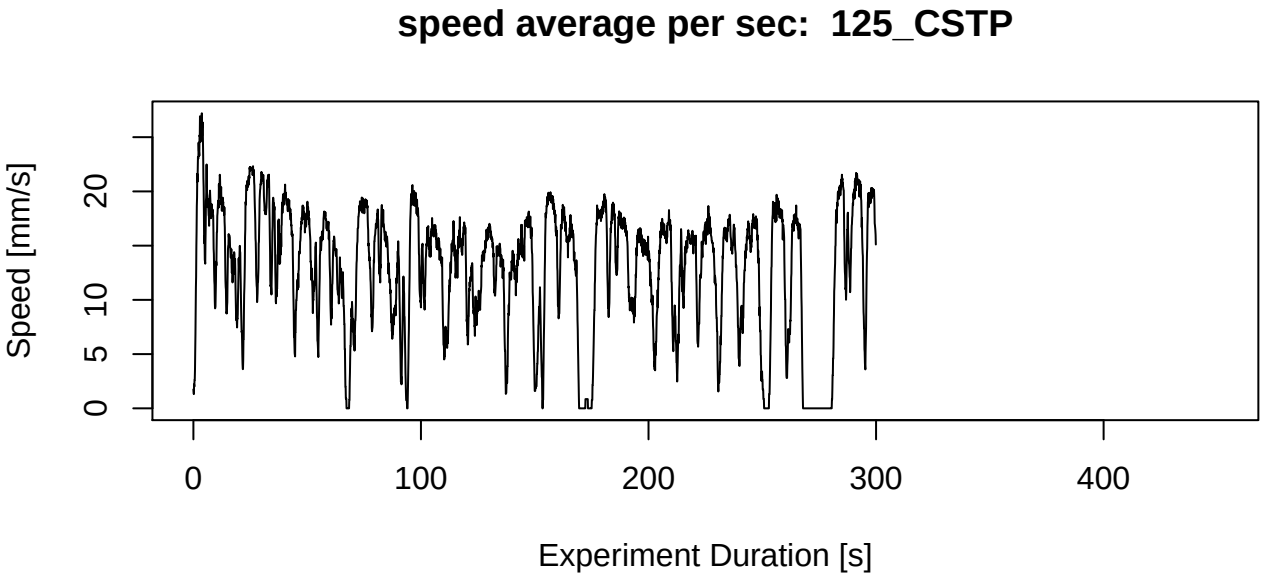

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

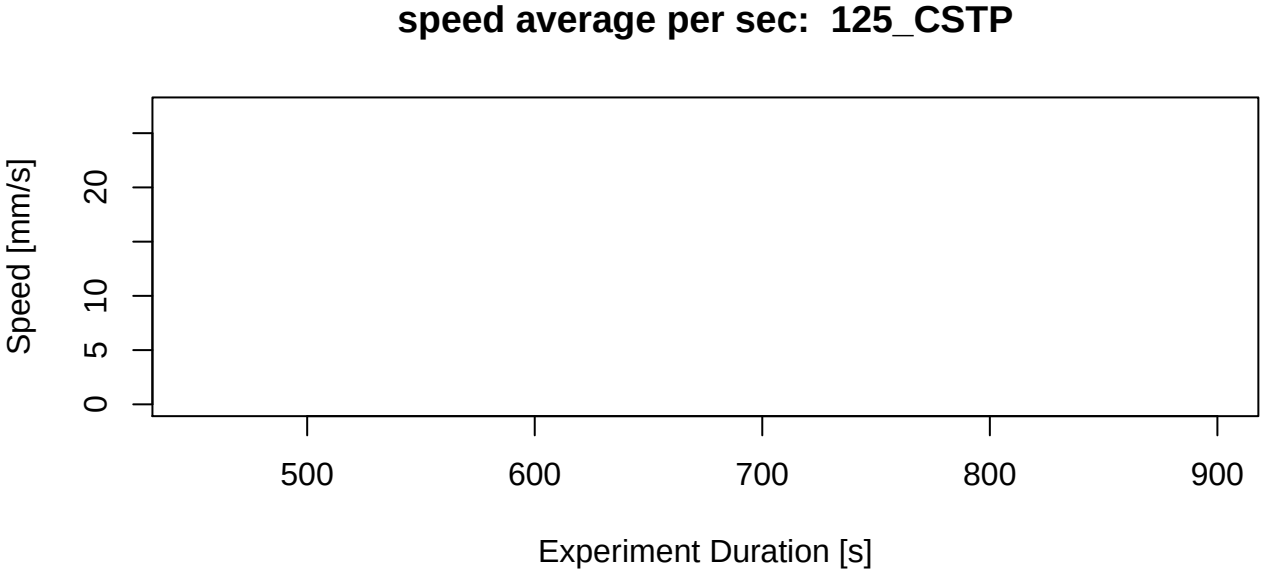

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

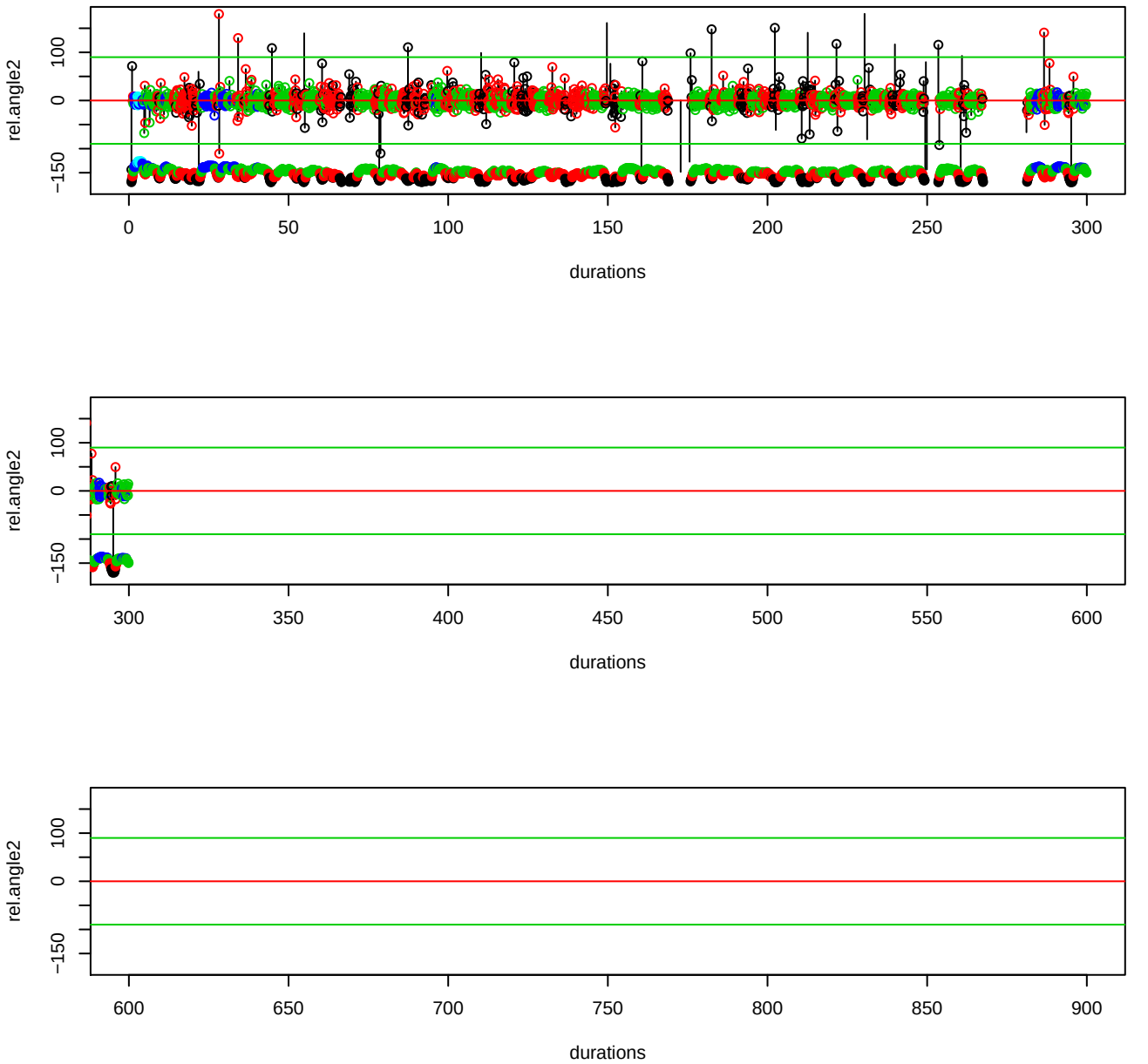

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

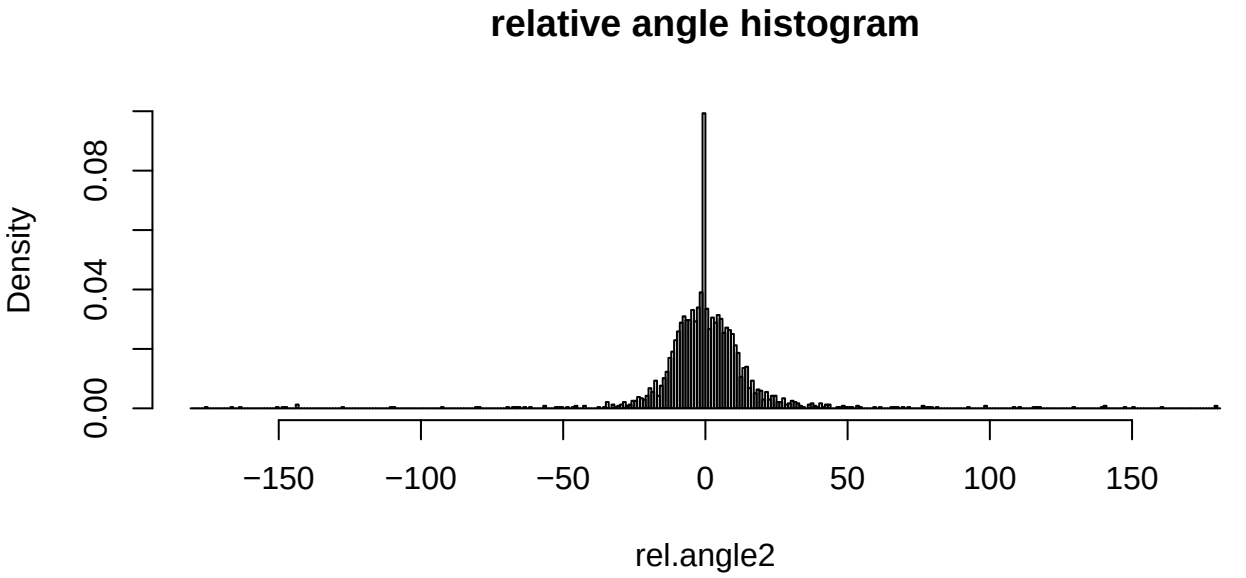

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

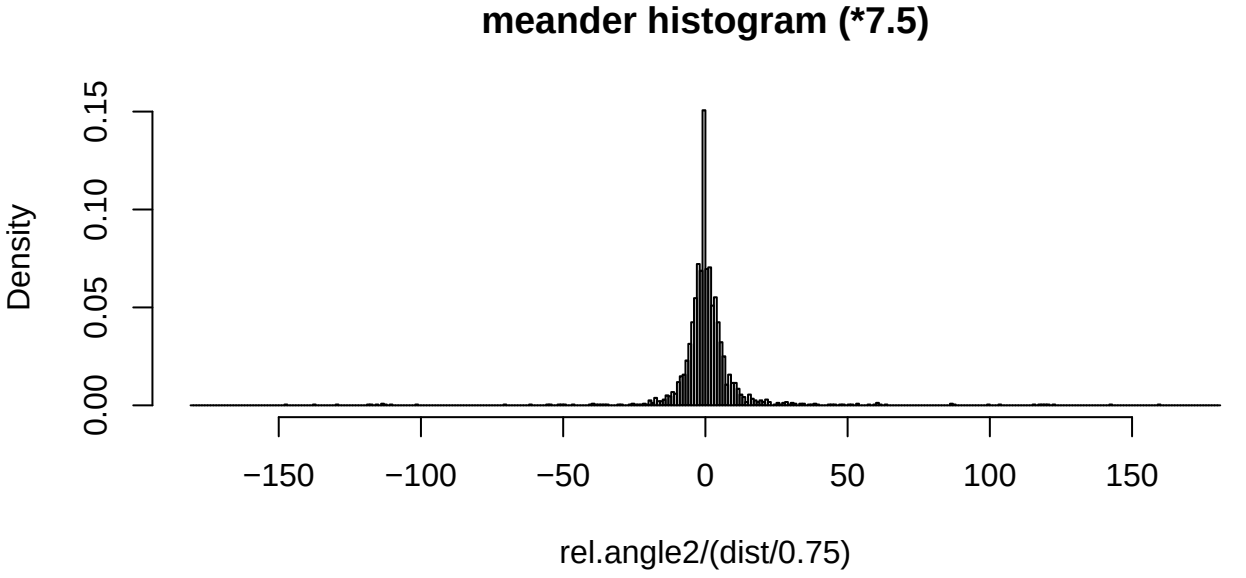

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

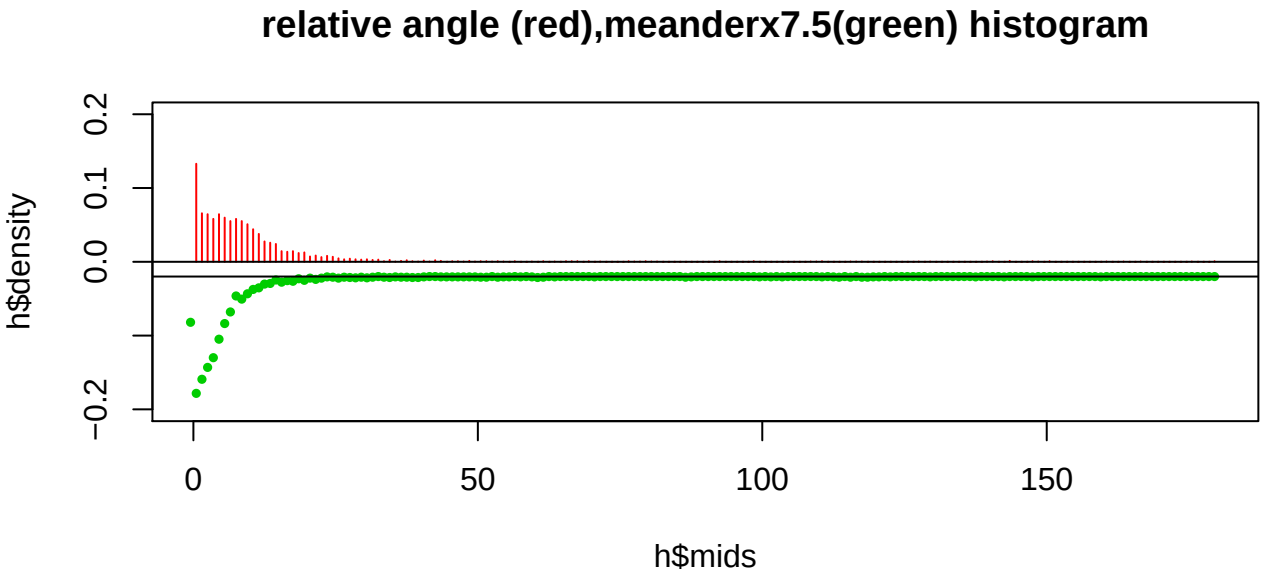

speed average per sec: 125_CSTP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

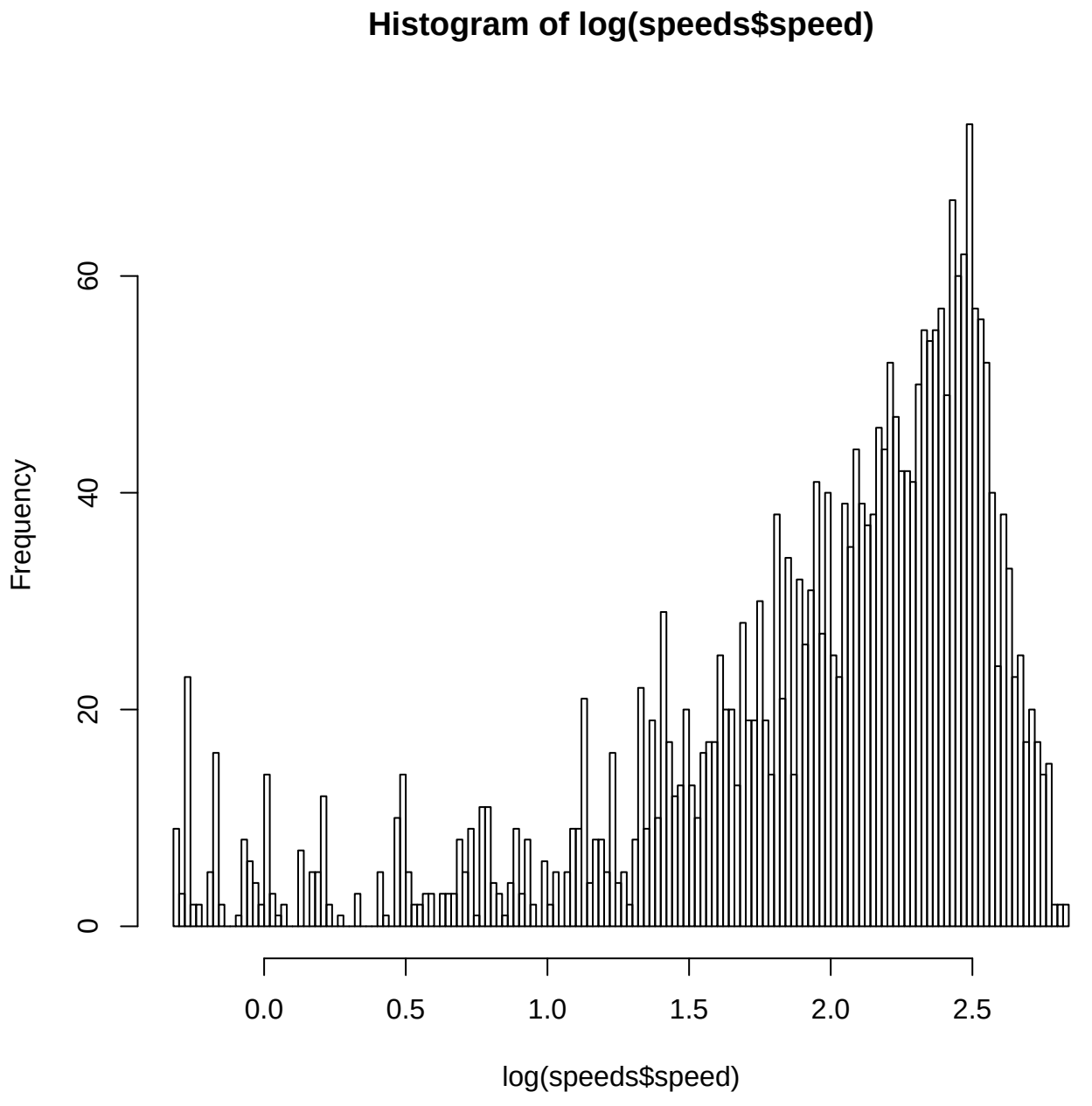

speed average per sec: 125_CSTP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

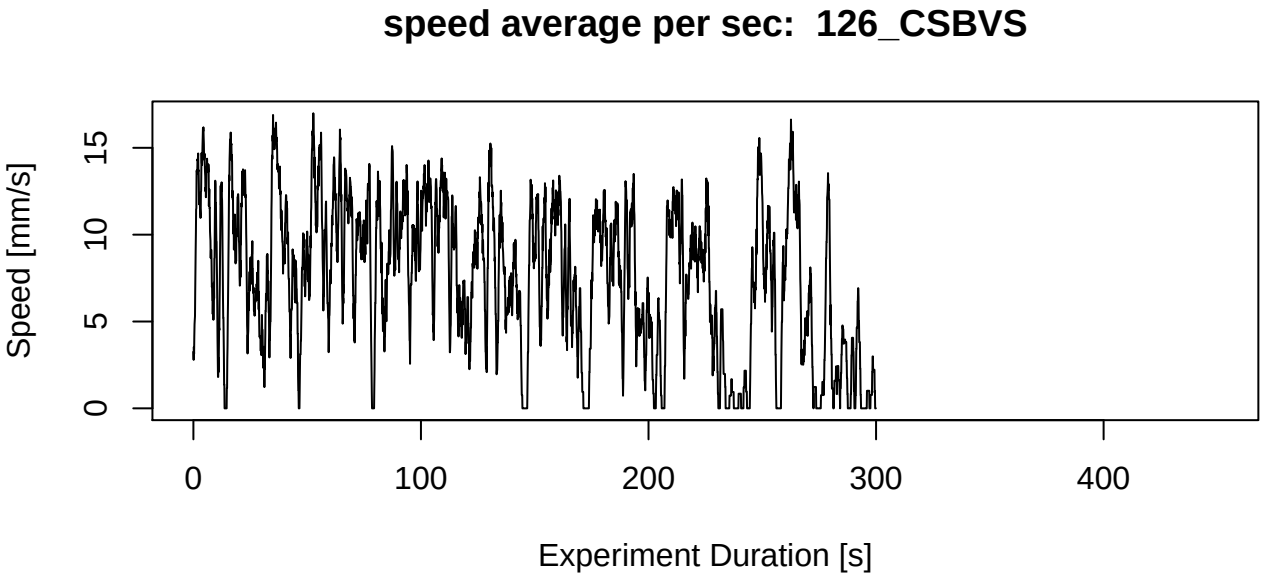

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

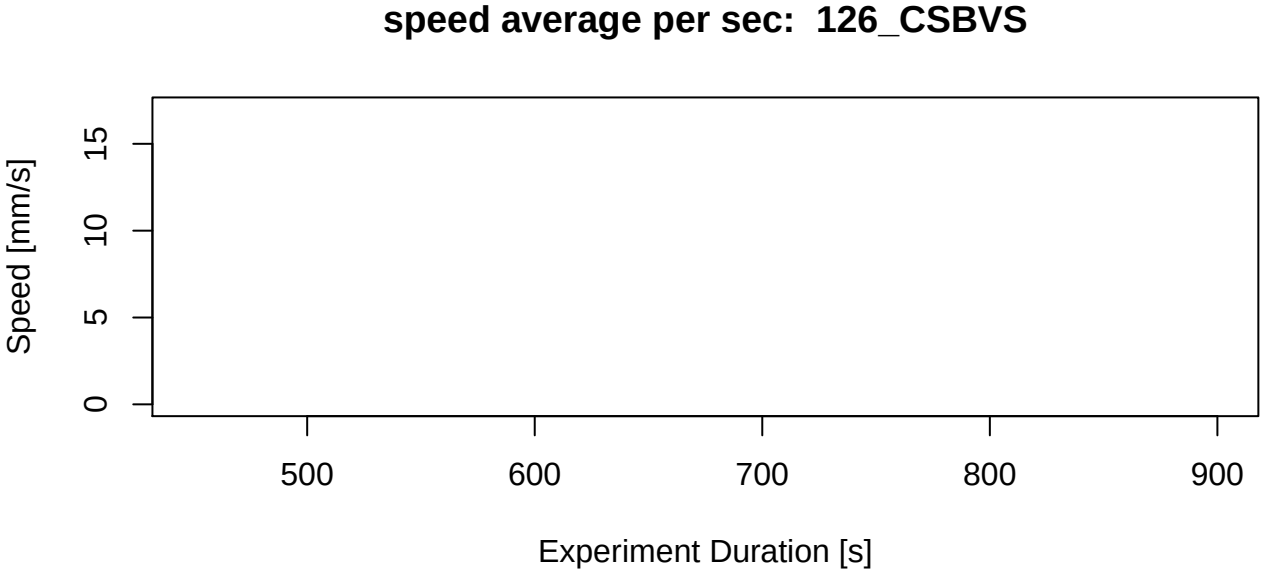

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

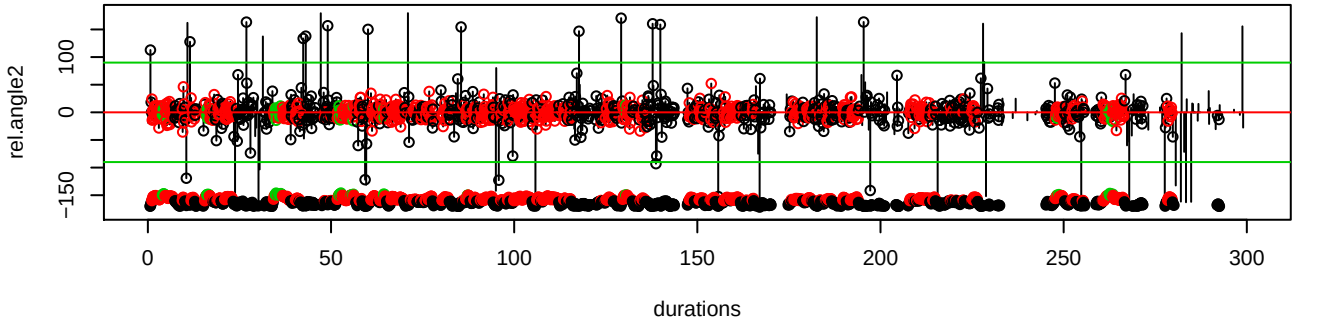

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

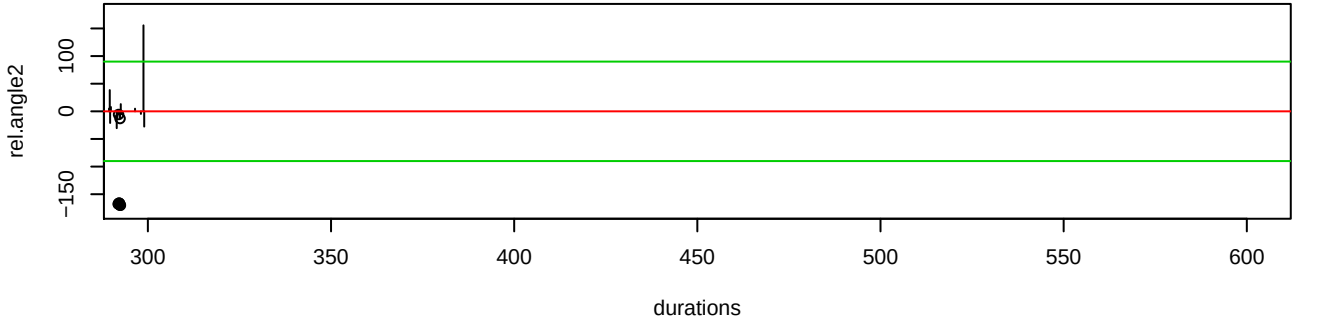

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

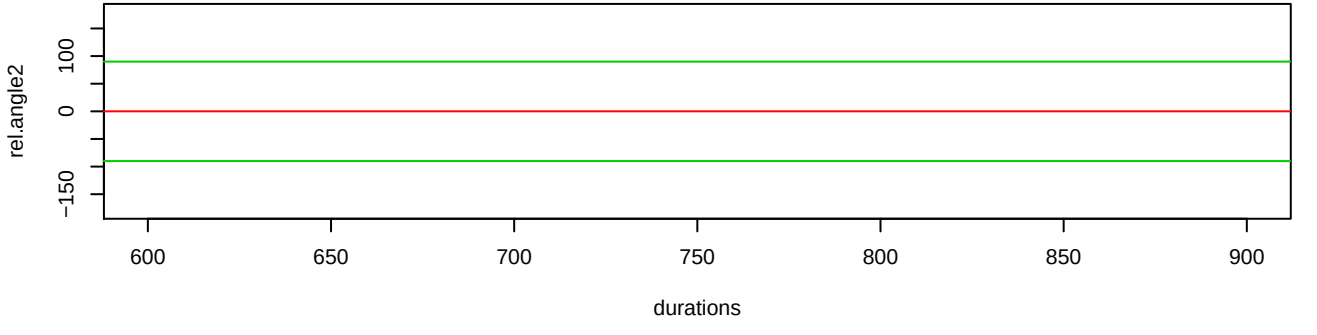

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

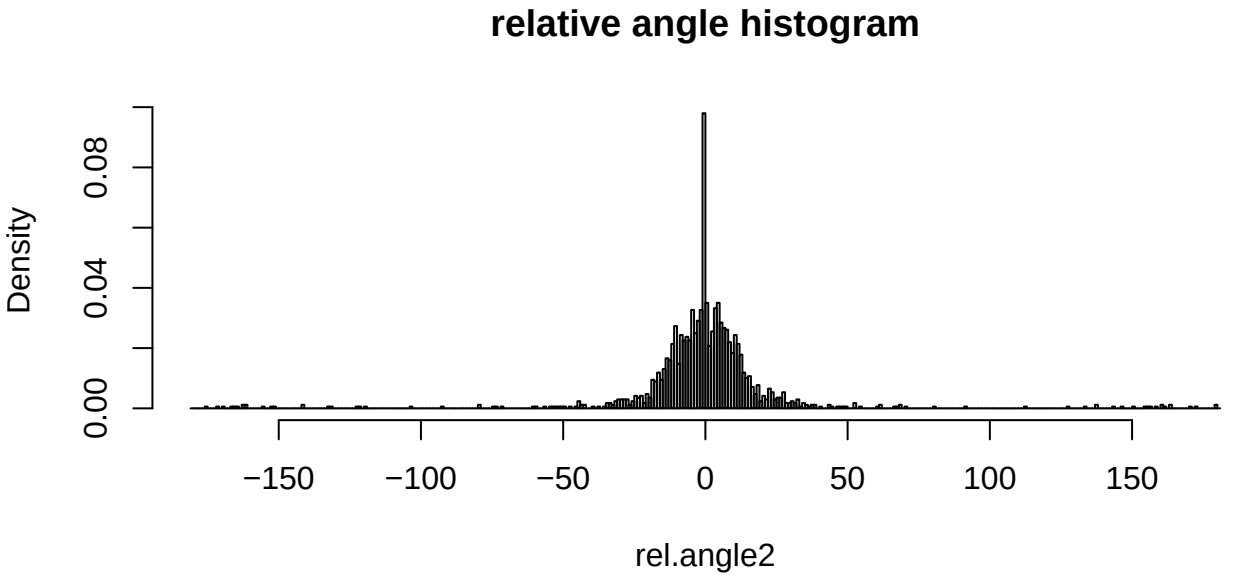

speed average per sec: 126_CSBVS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

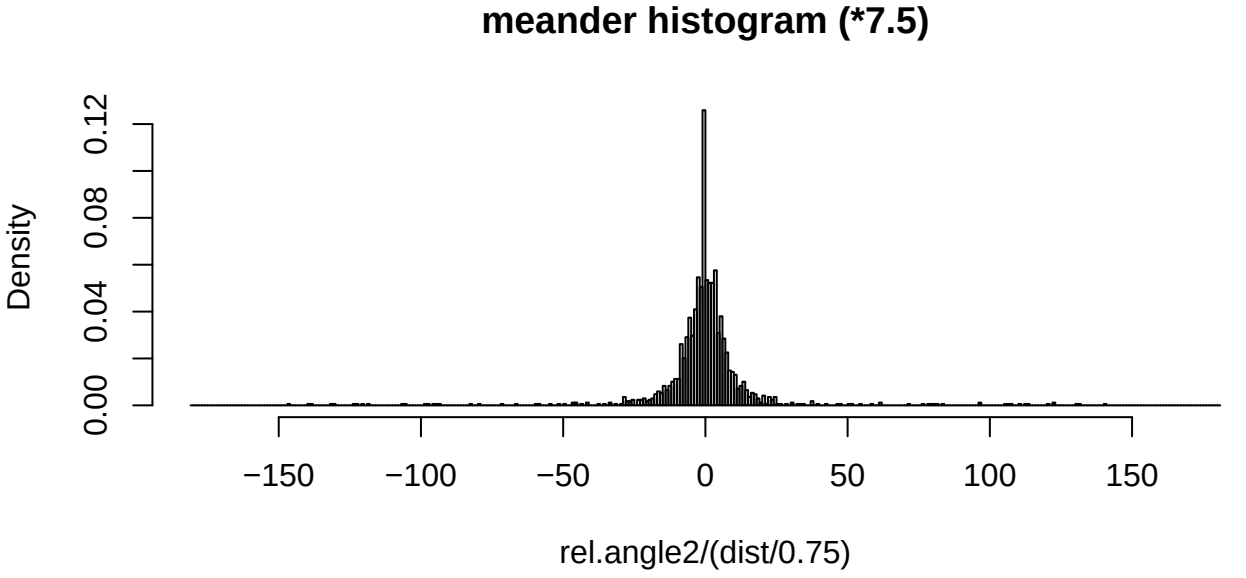

speed average per sec: 126_CSBVS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

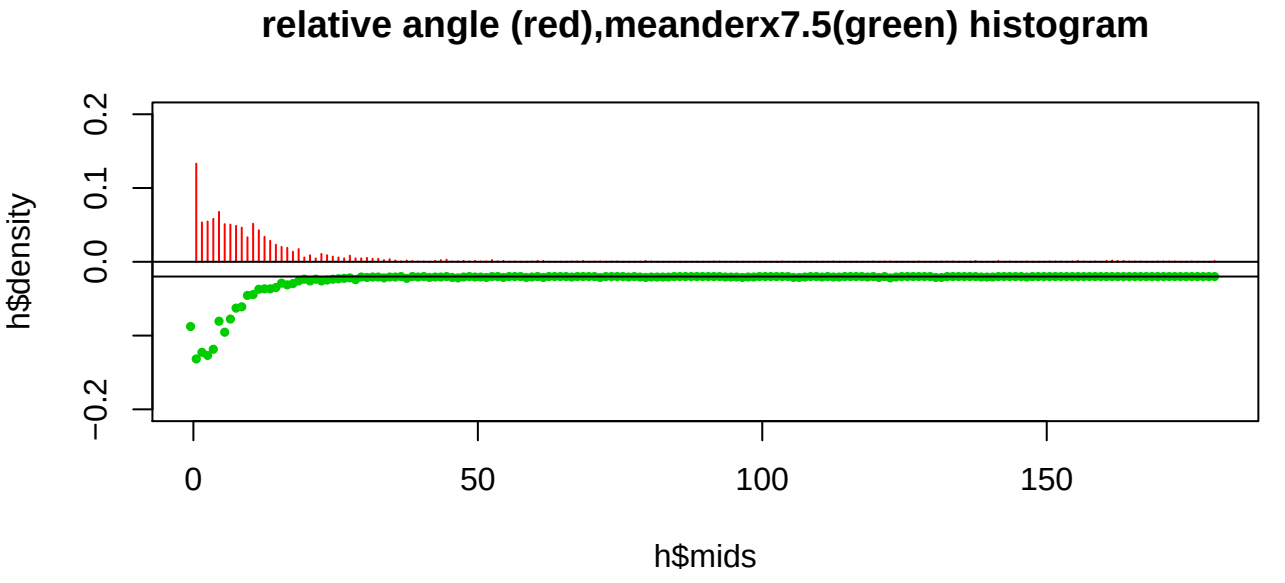

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

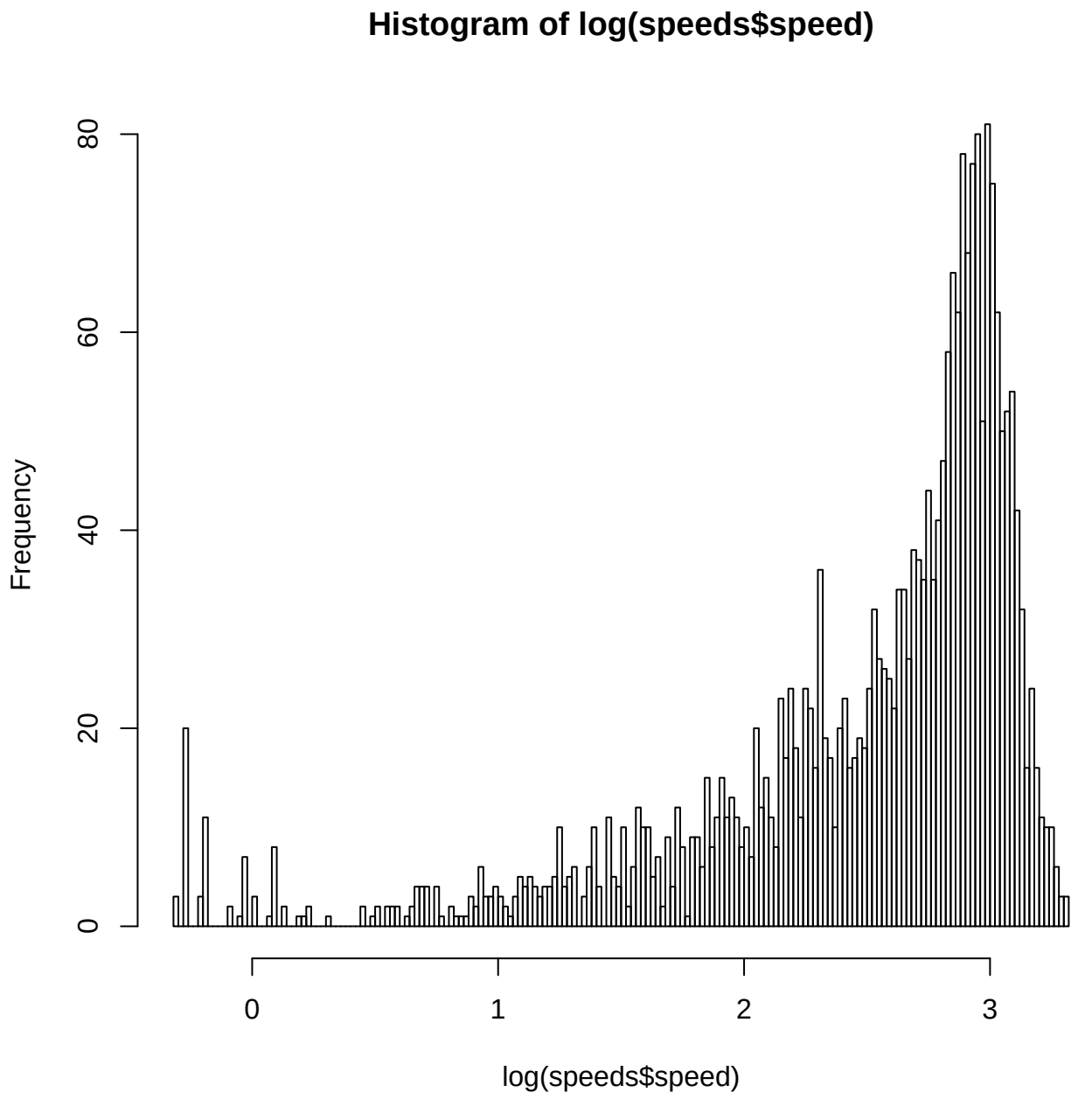

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

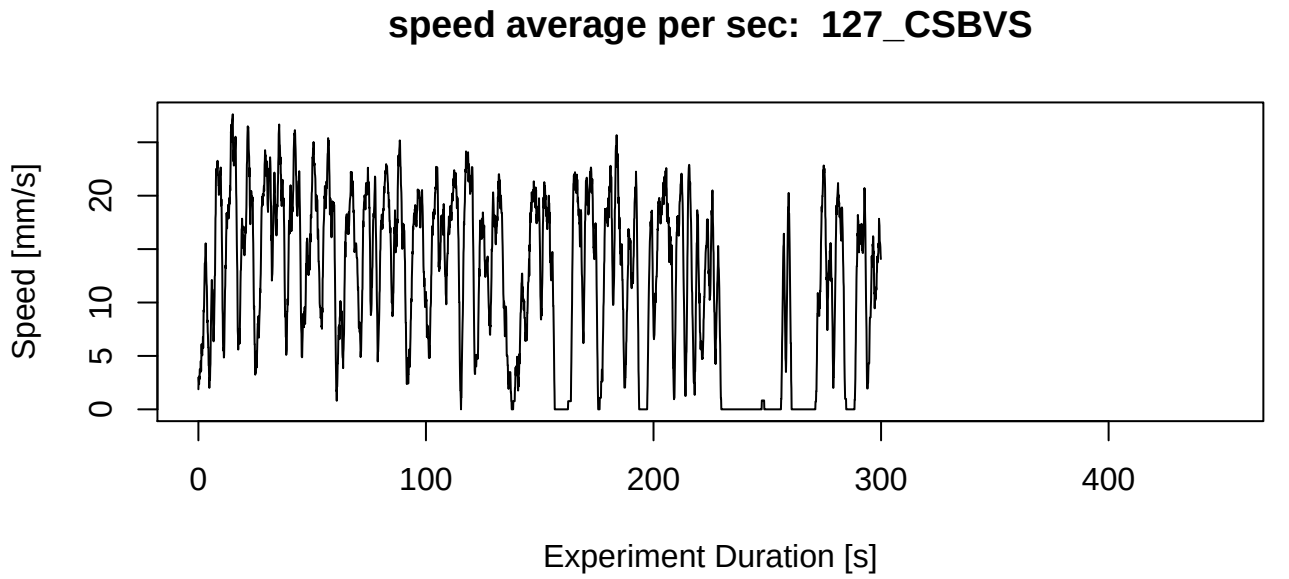

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

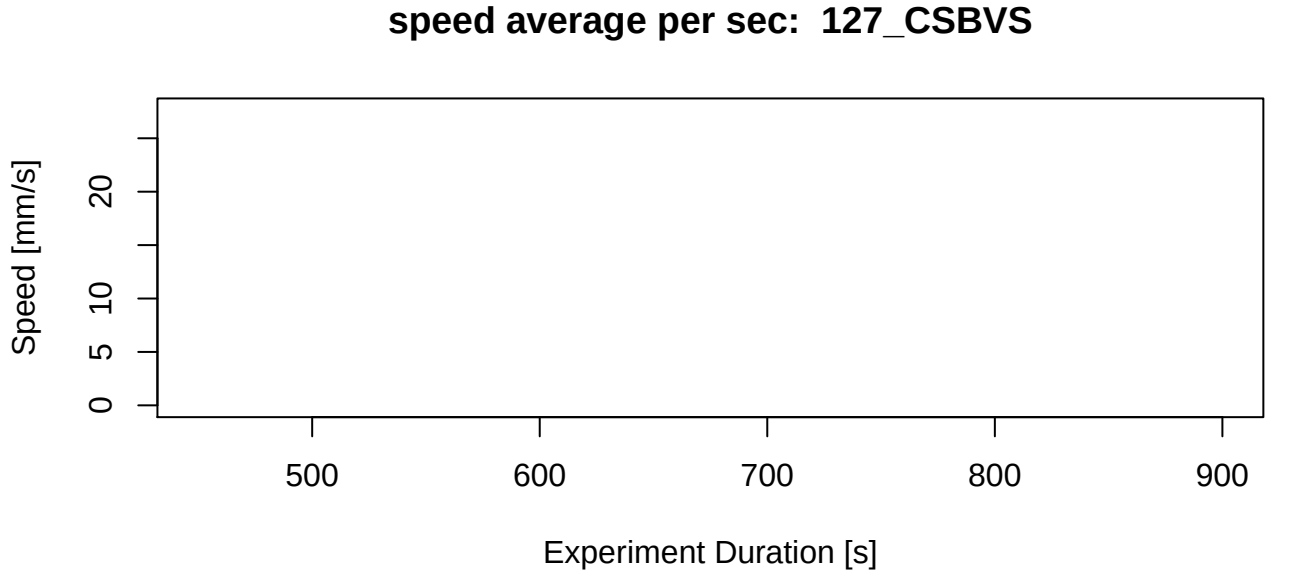

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

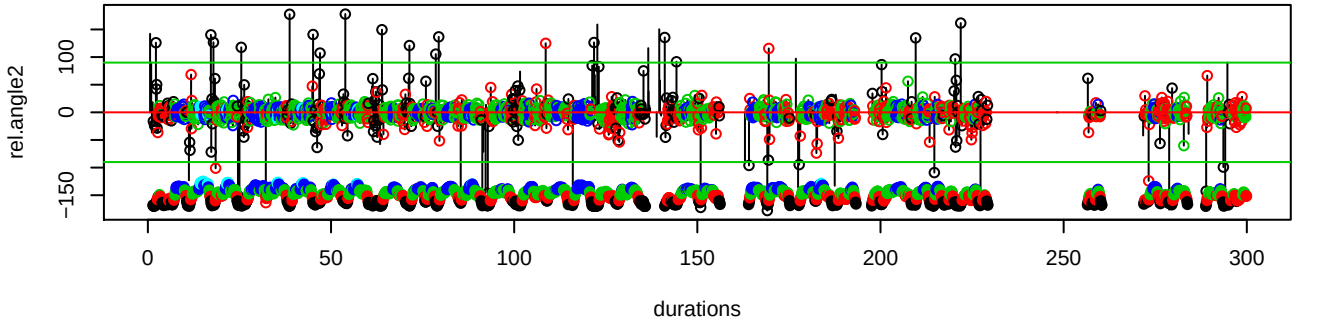

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

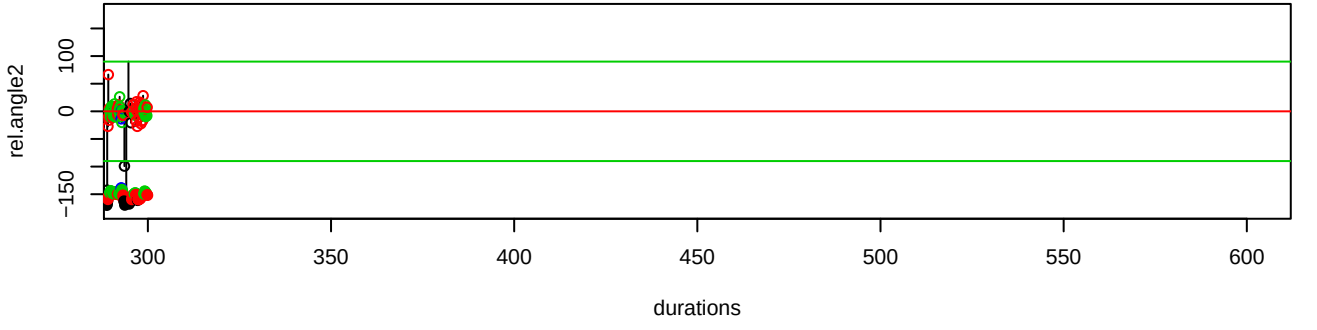

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

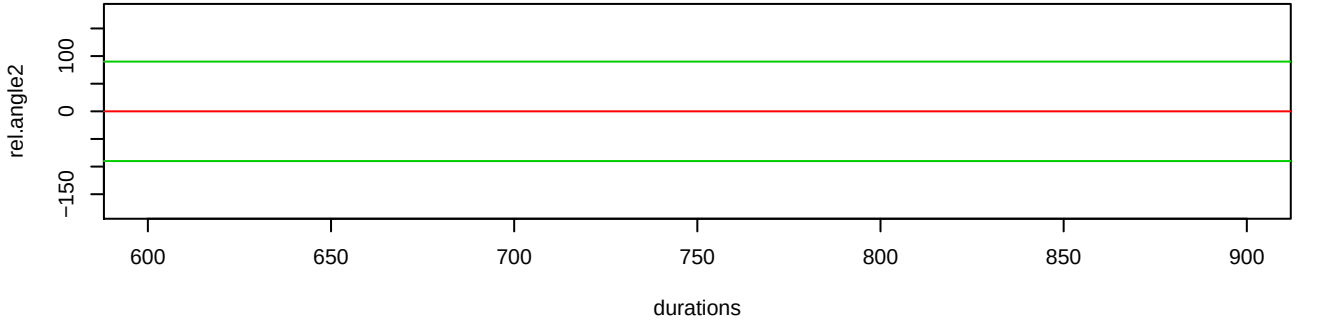

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0
1
2
3
log(speeds$speed)

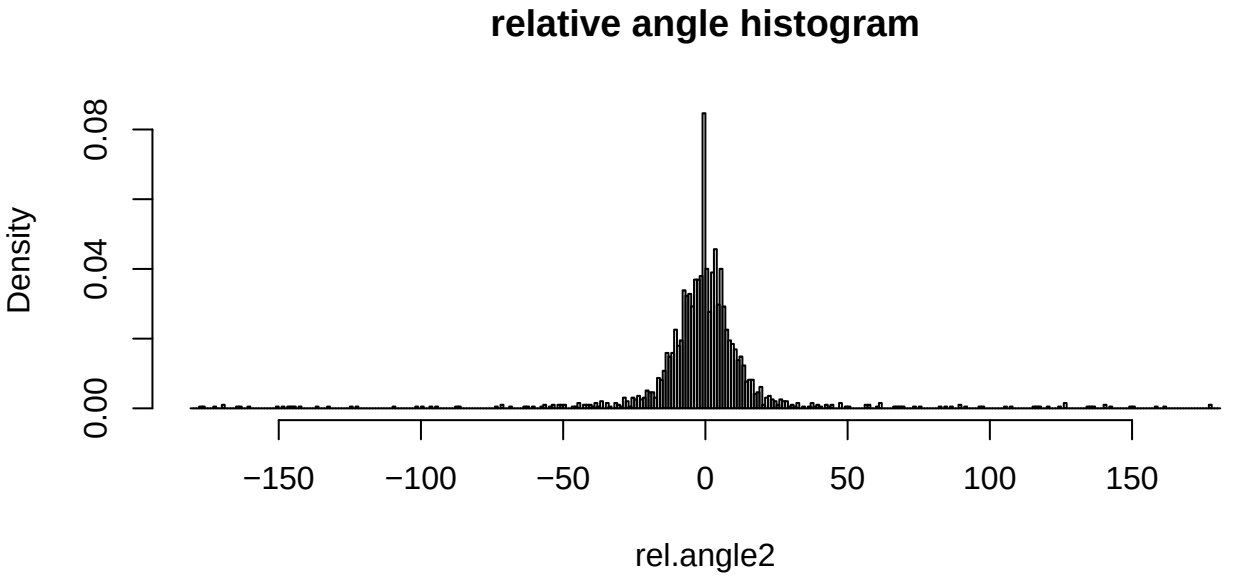

speed average per sec: 127_CSBVS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

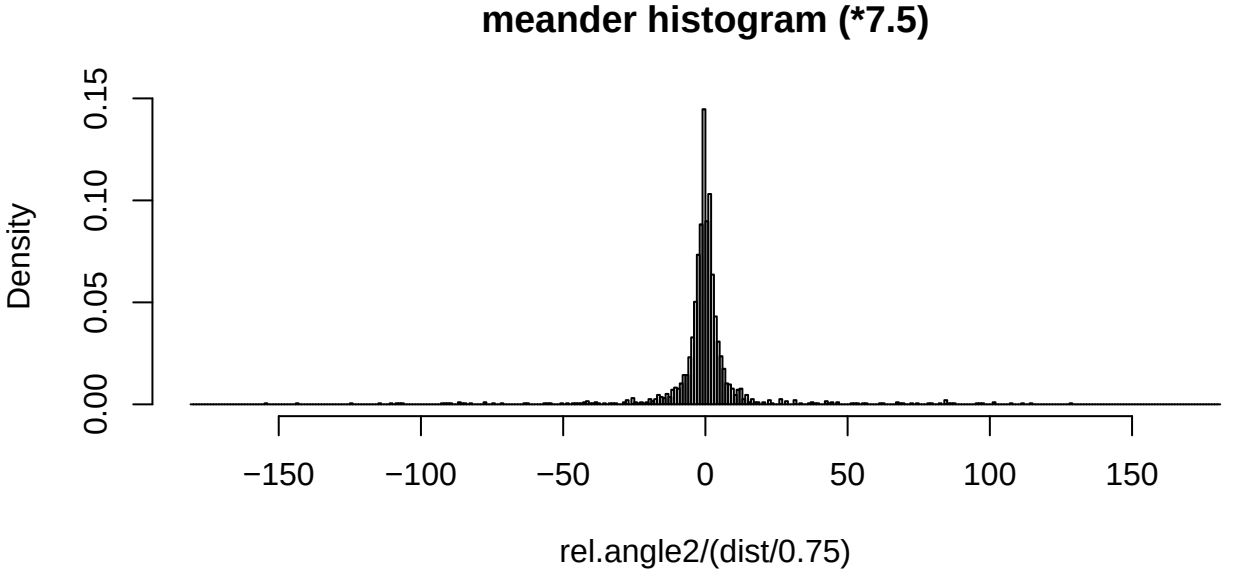

speed average per sec: 127_CSBVS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

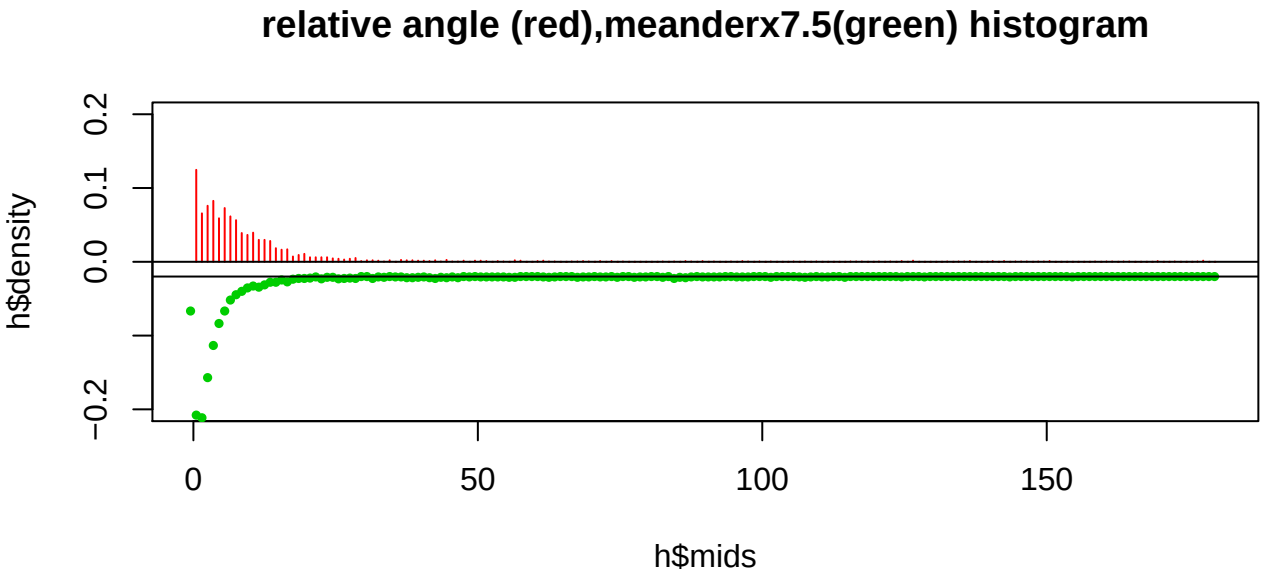

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

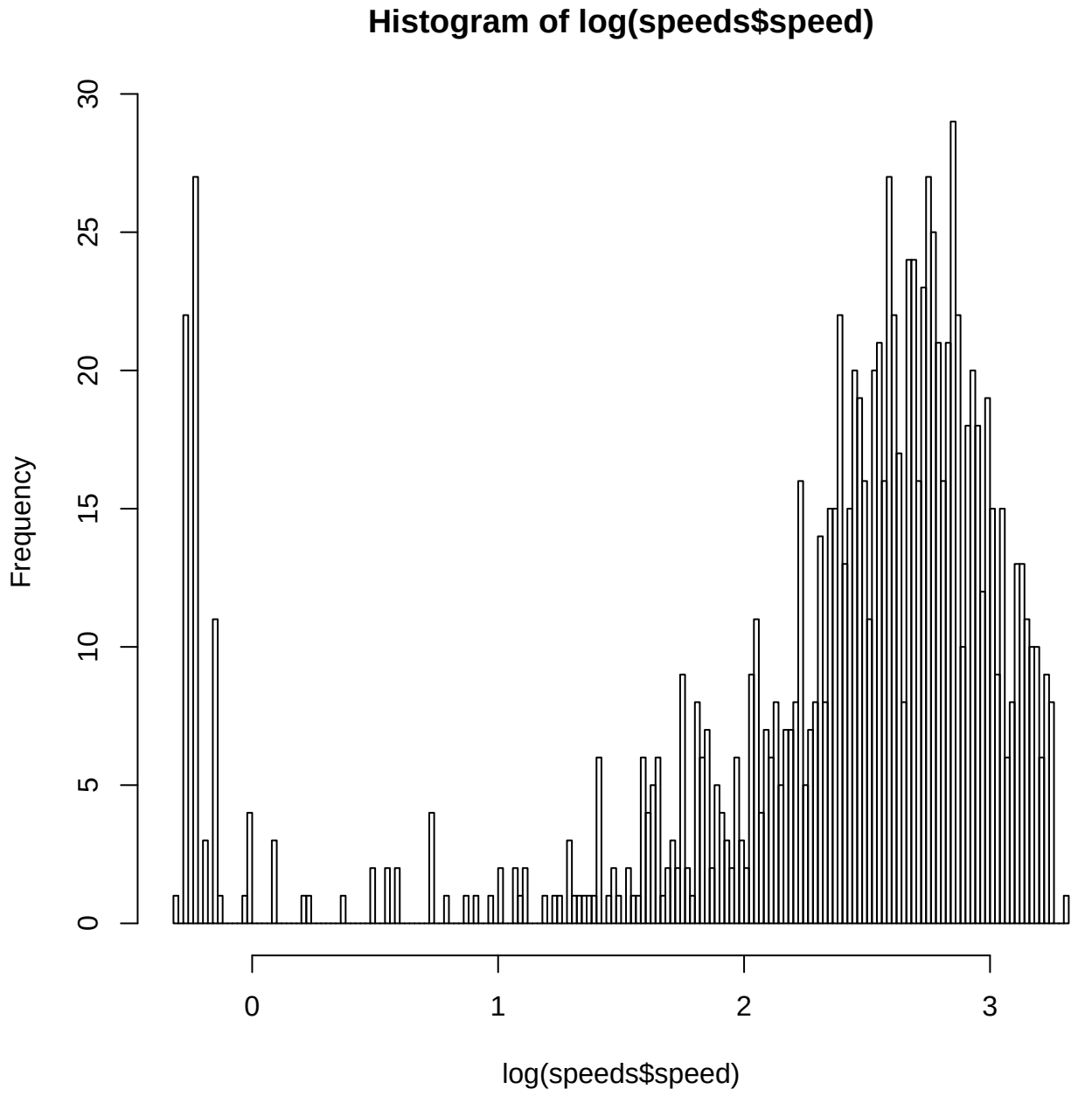

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

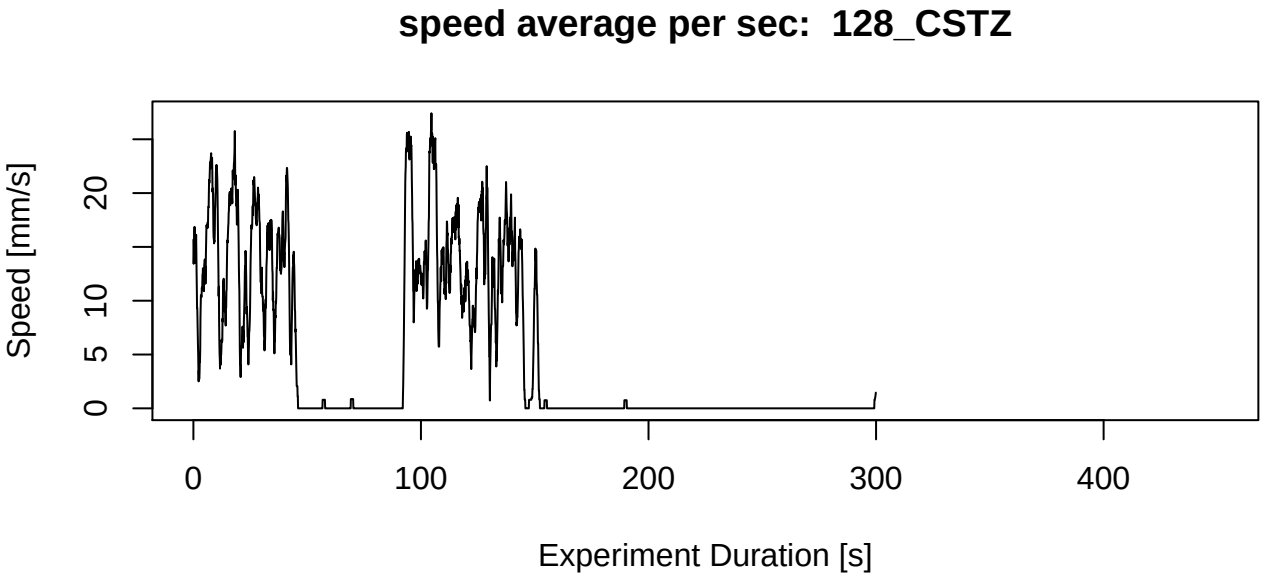

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

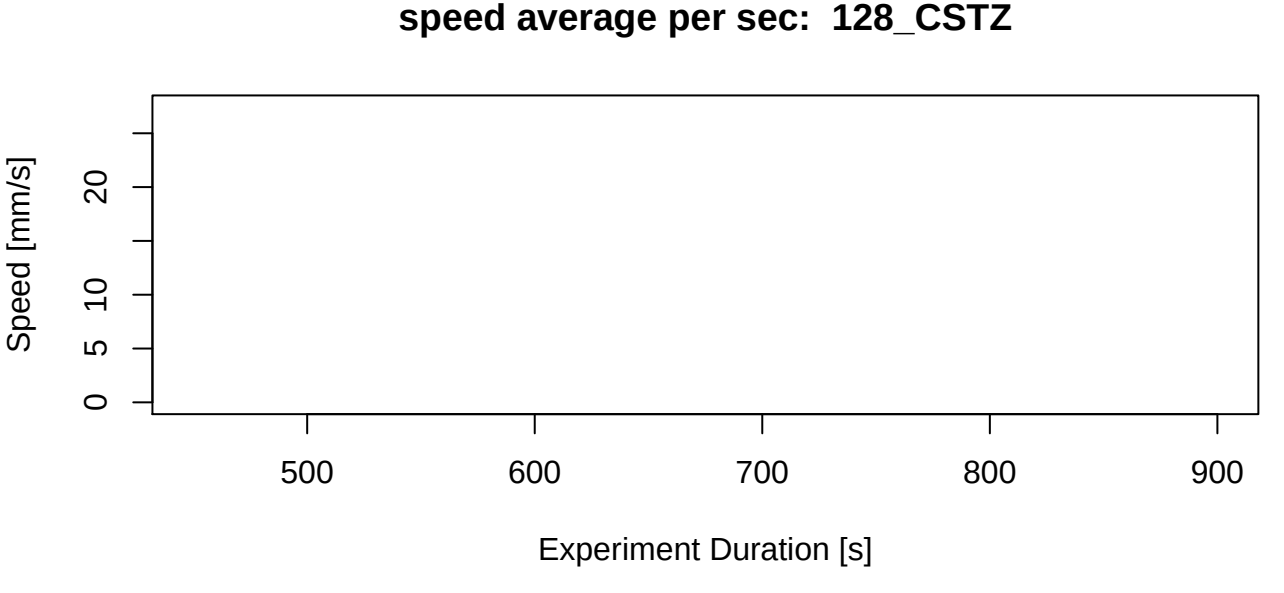

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

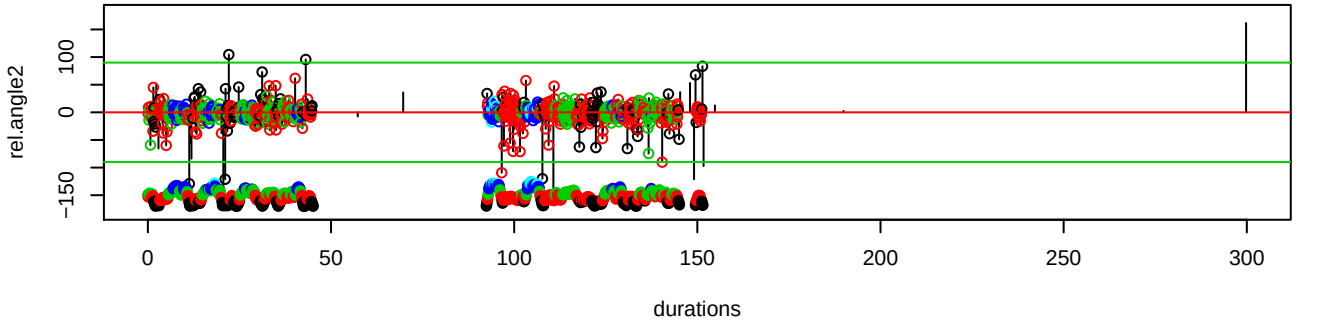

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

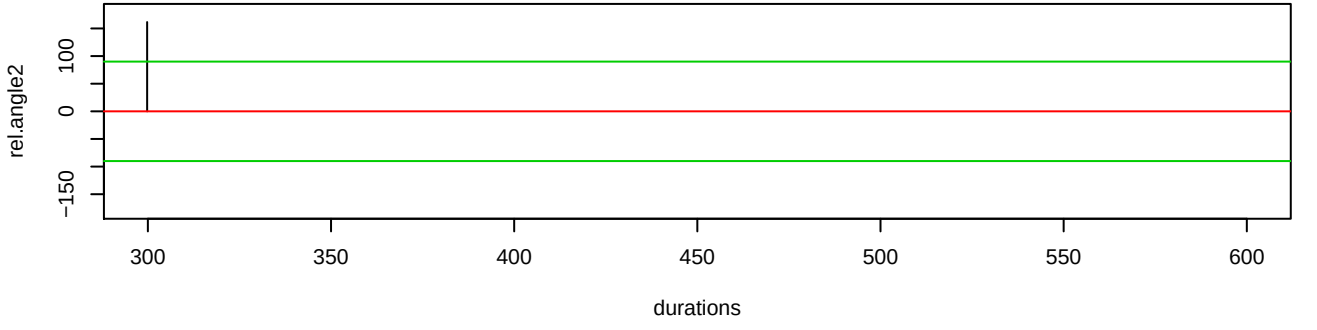

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

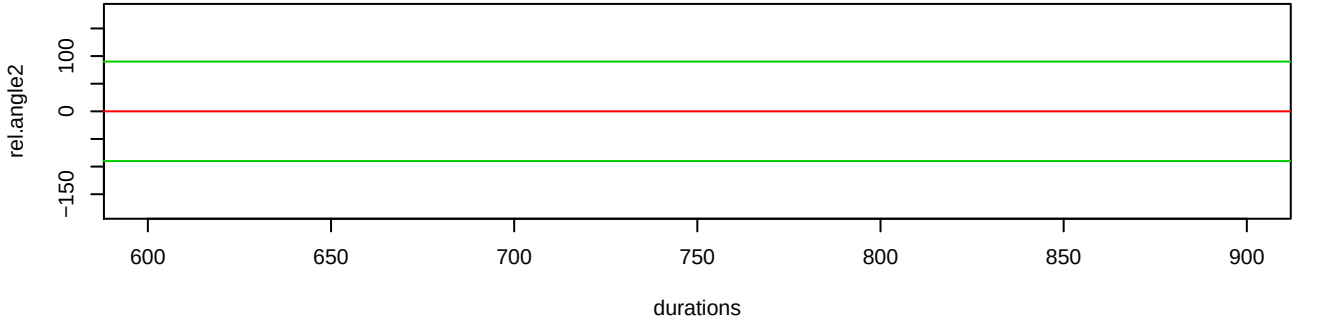

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0
1
2
3
log(speeds$speed)

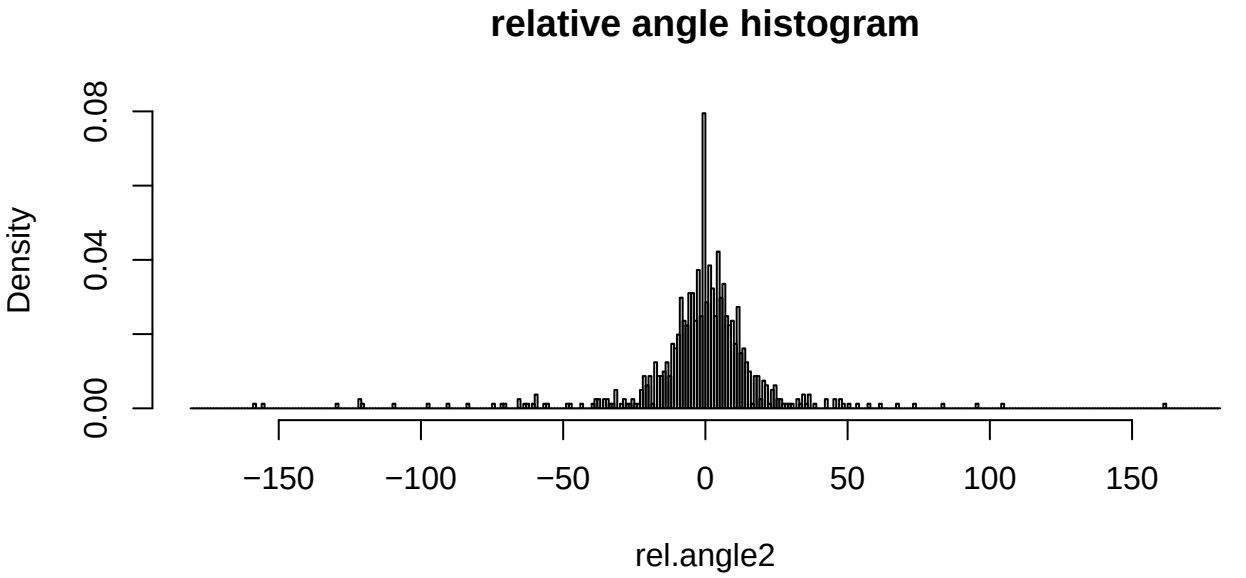

speed average per sec: 128_CSTZ
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

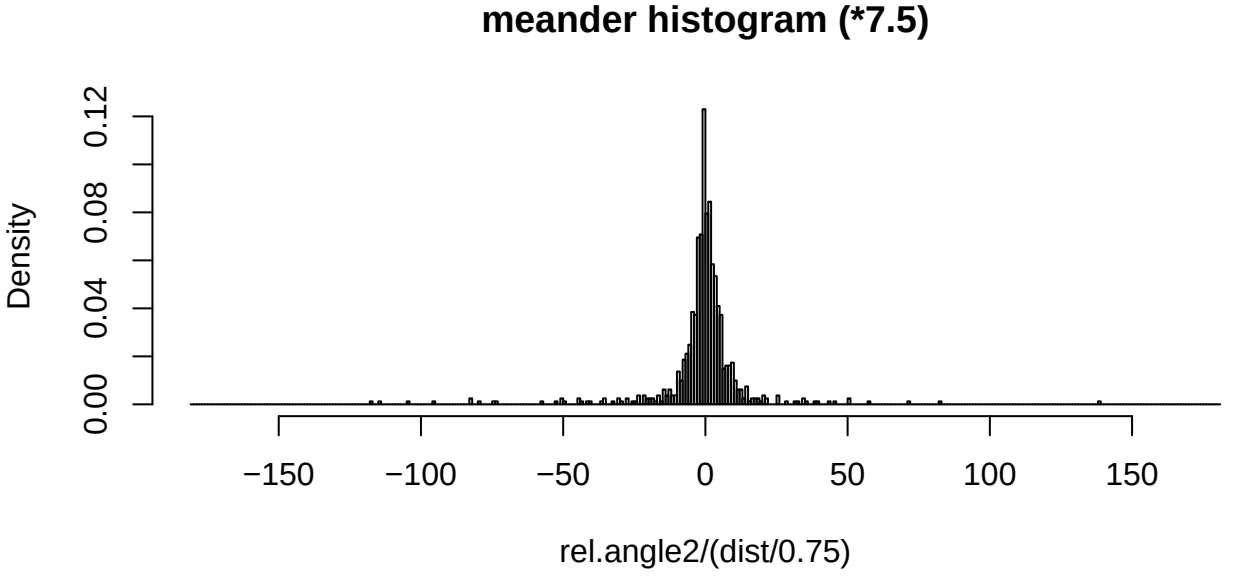

speed average per sec: 128_CSTZ
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

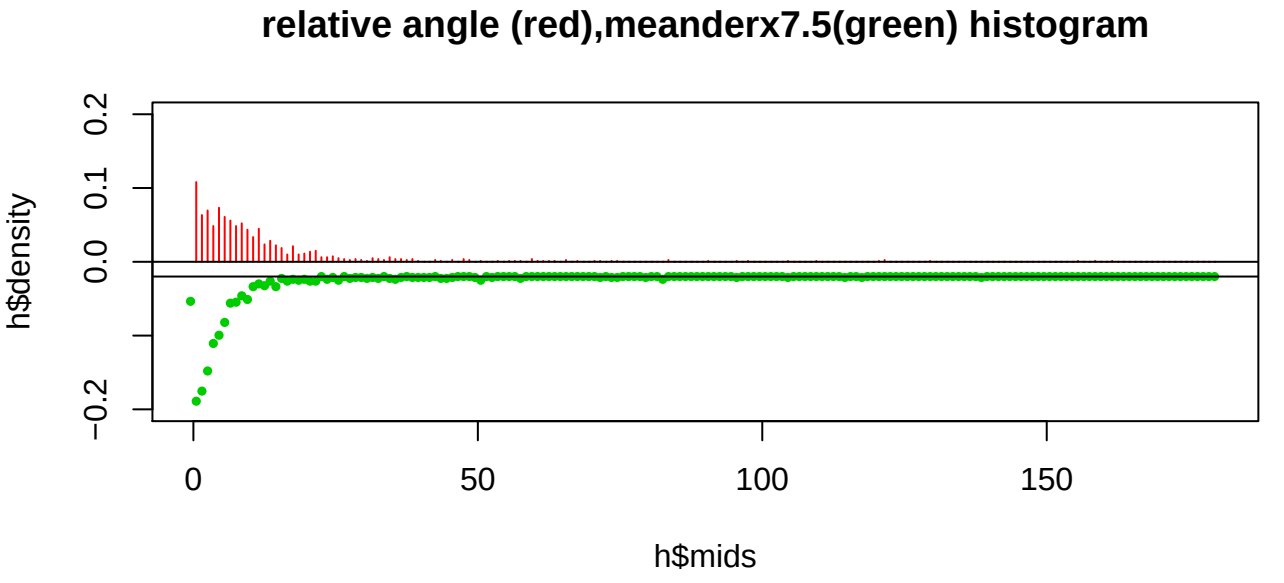

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

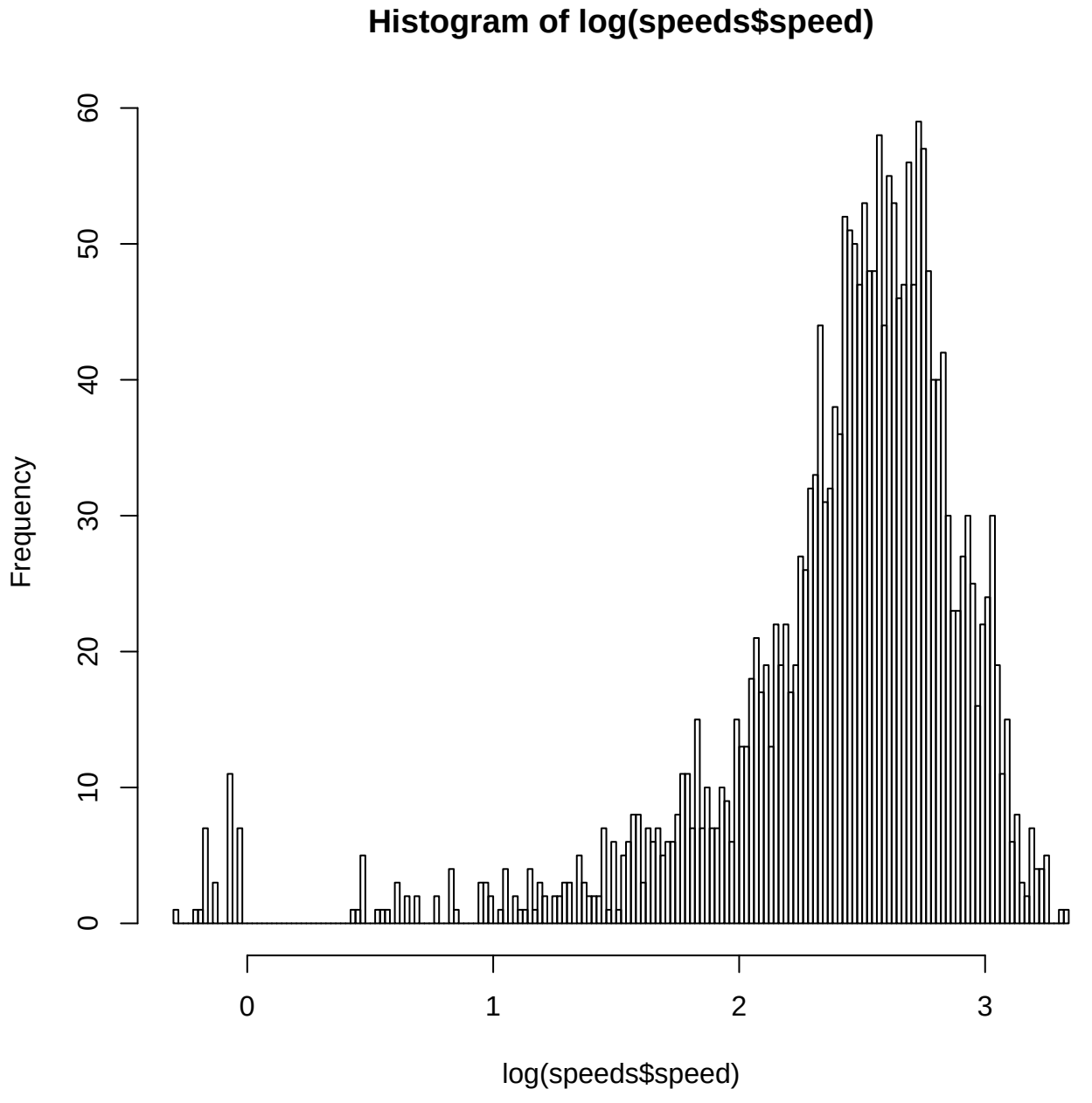

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

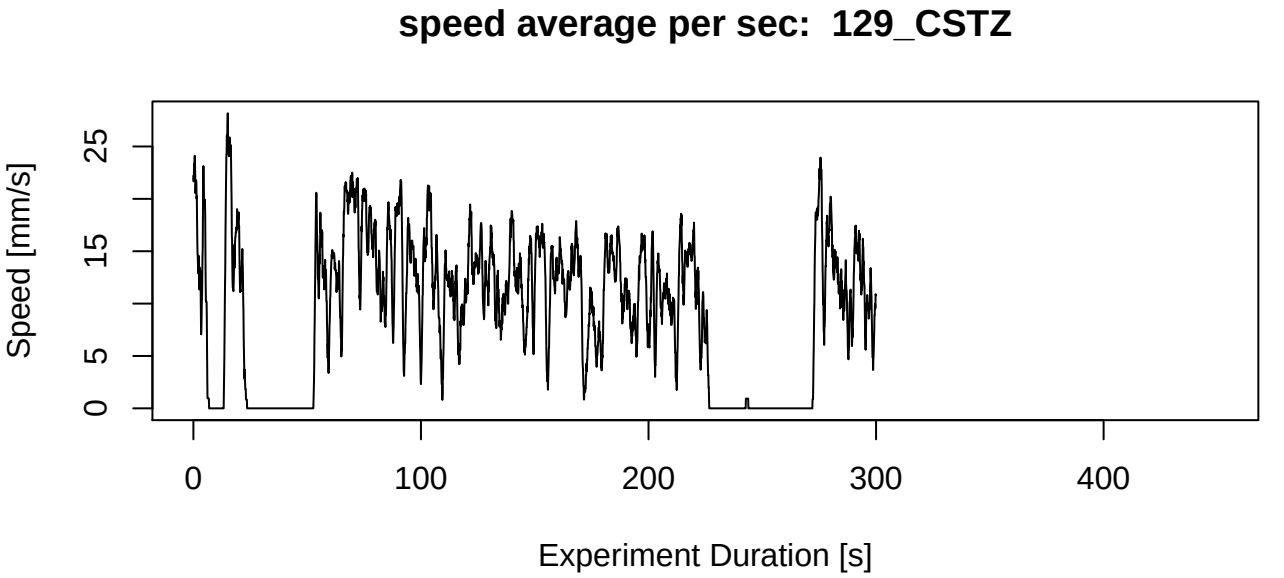

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

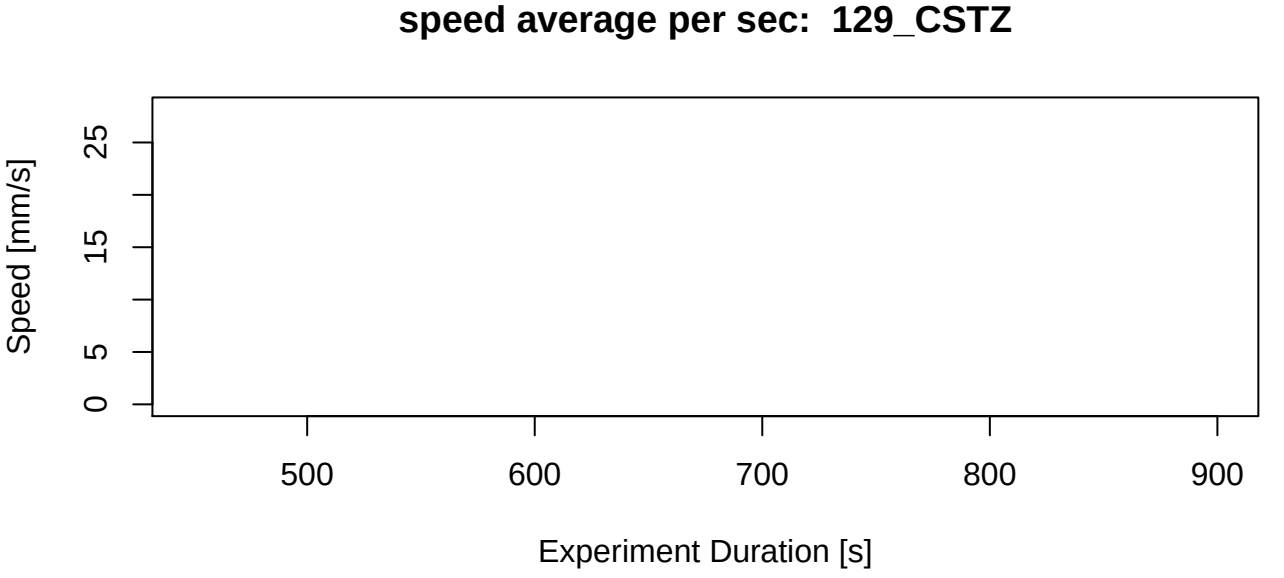

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

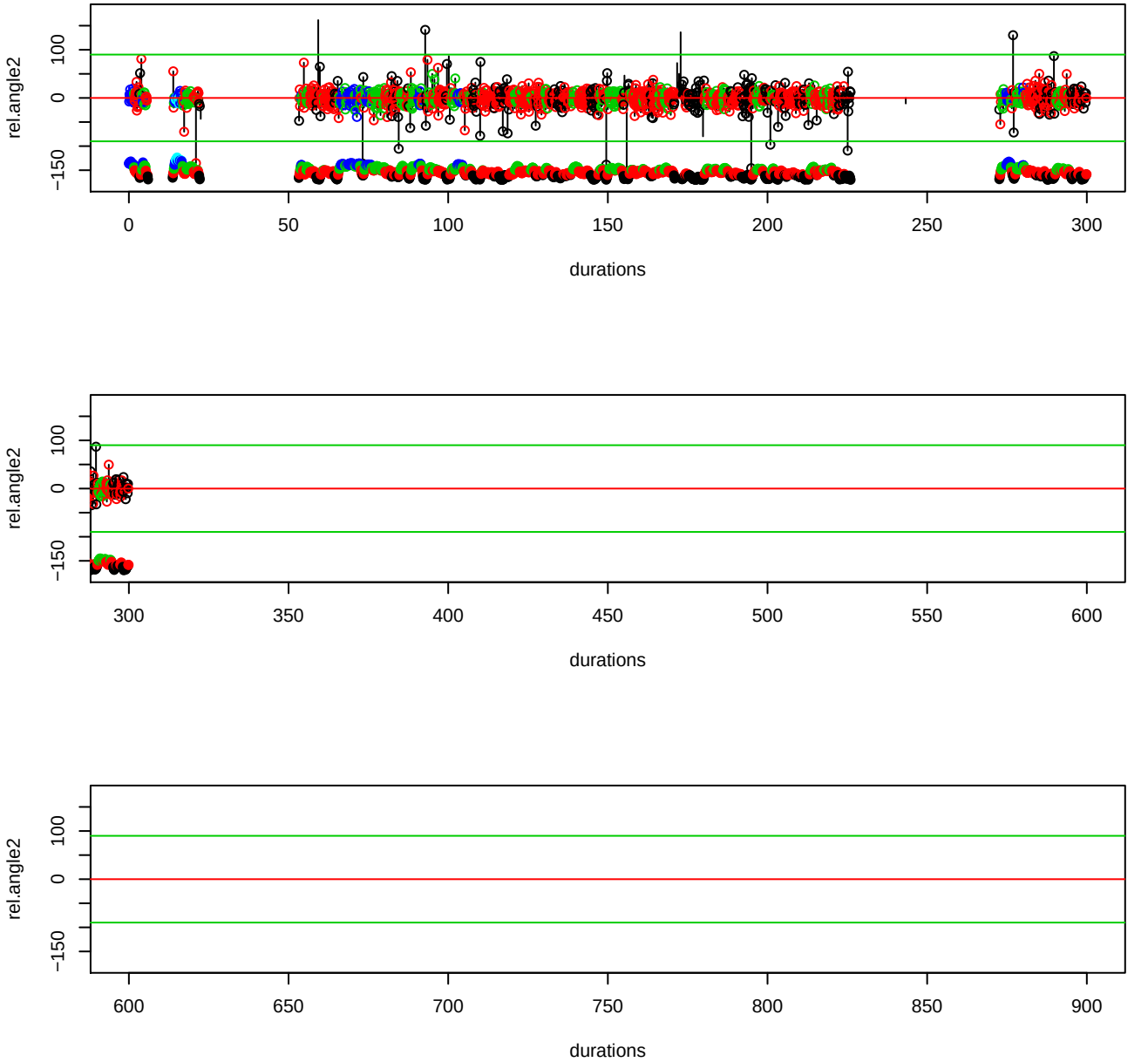

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

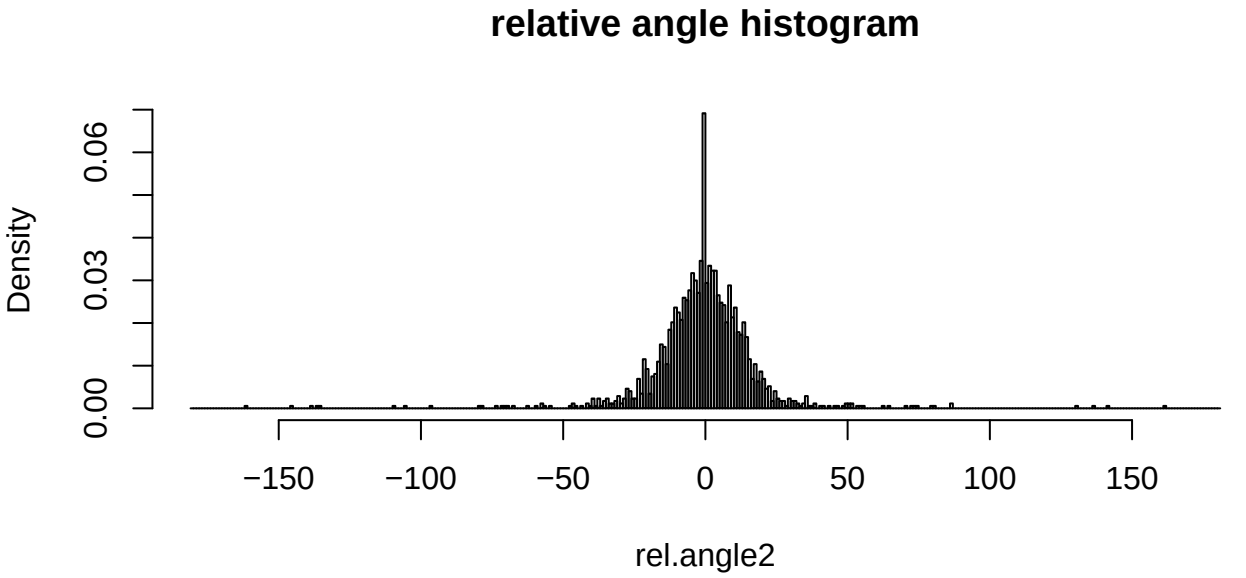

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

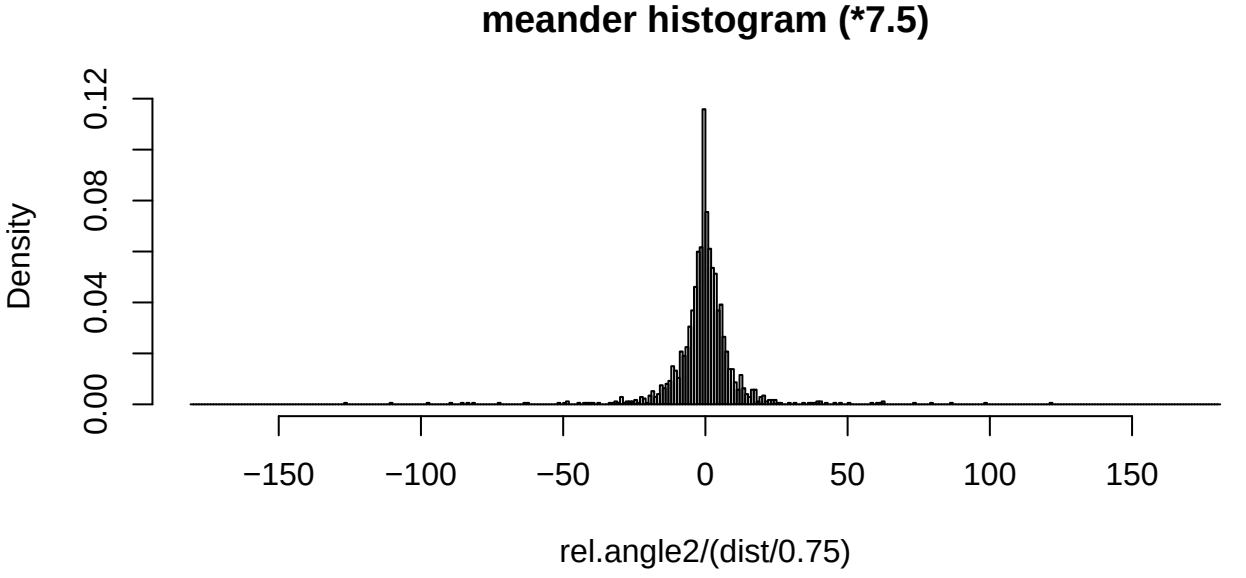

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0
1
2
3
log(speeds$speed)

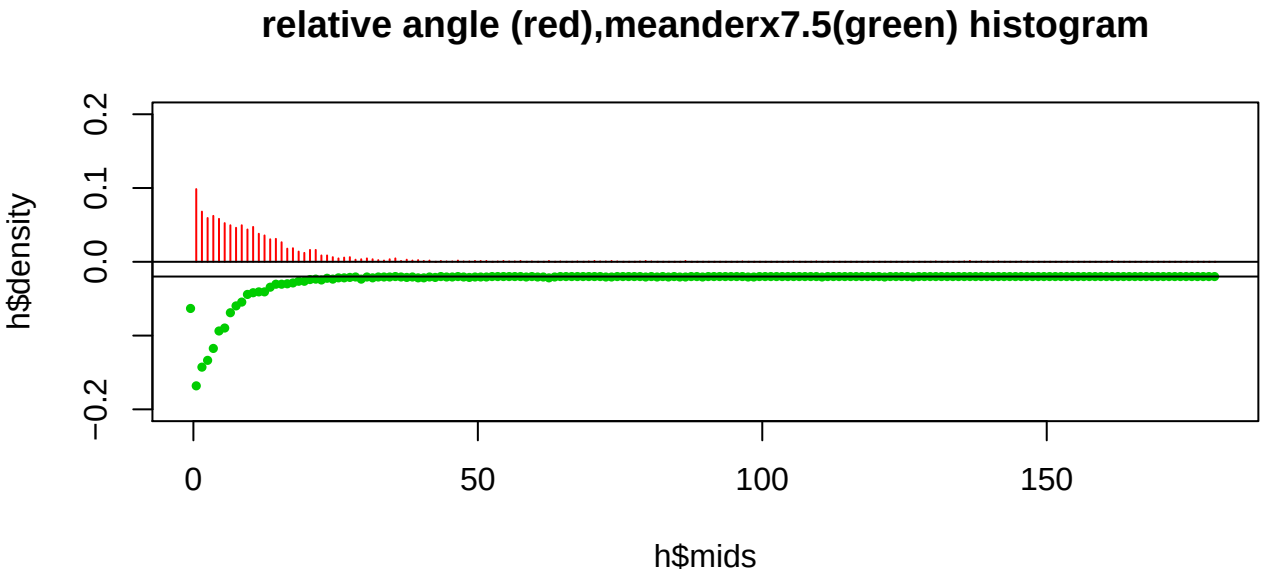

speed average per sec: 129_CSTZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

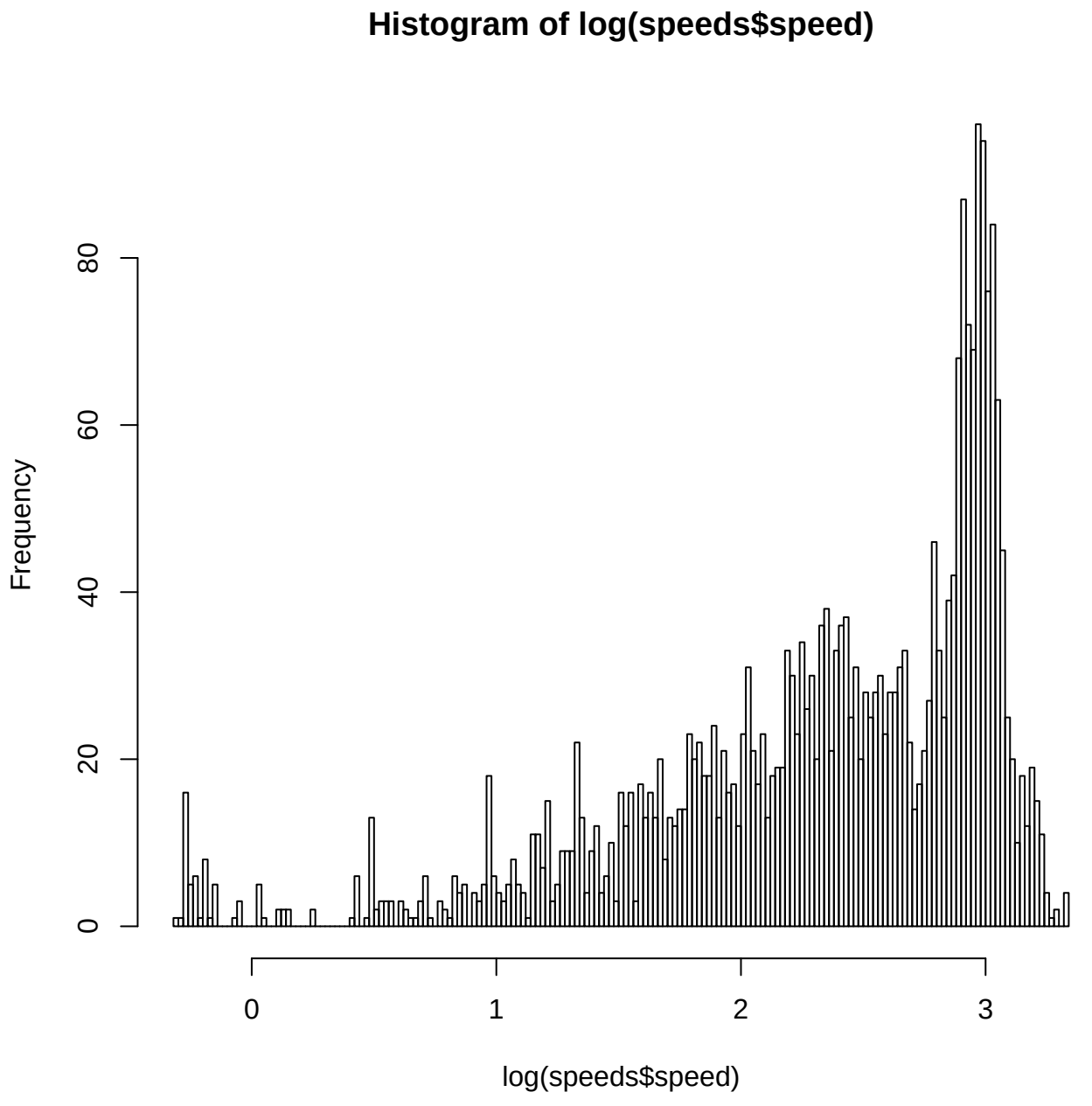

speed average per sec: 129_CSTZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

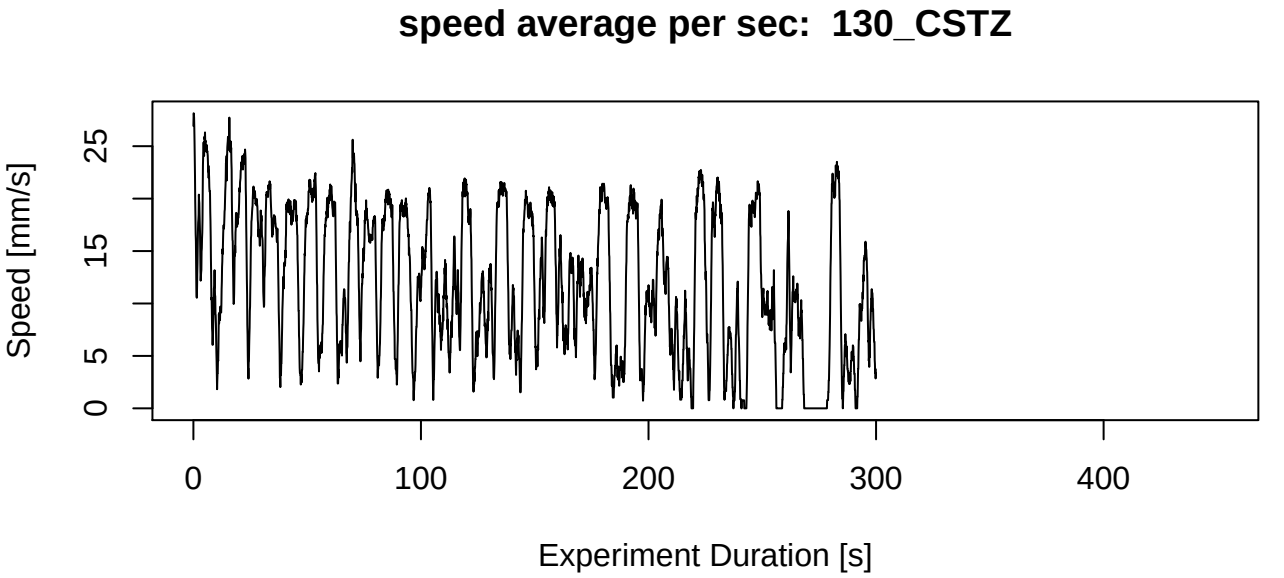

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

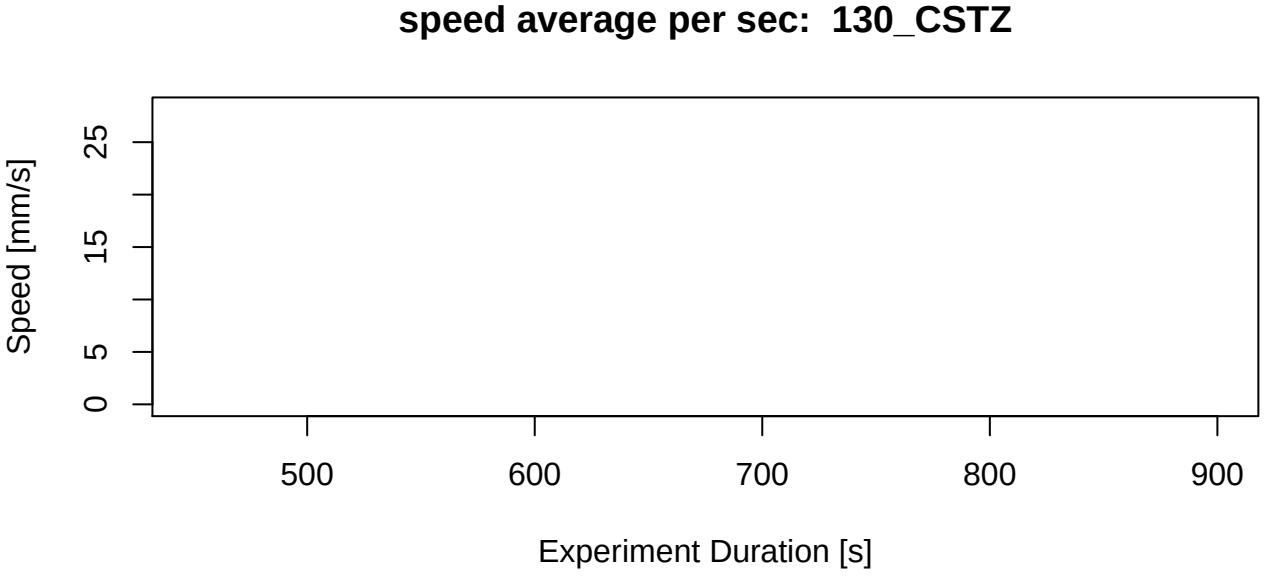

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

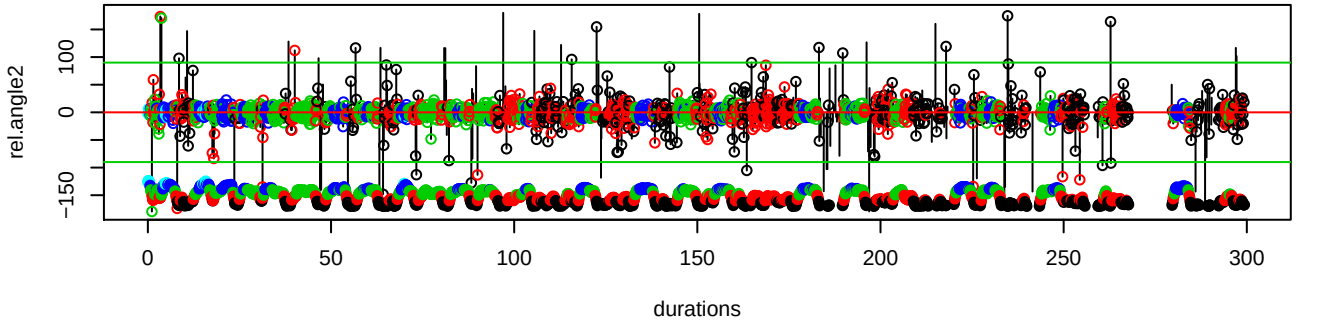

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

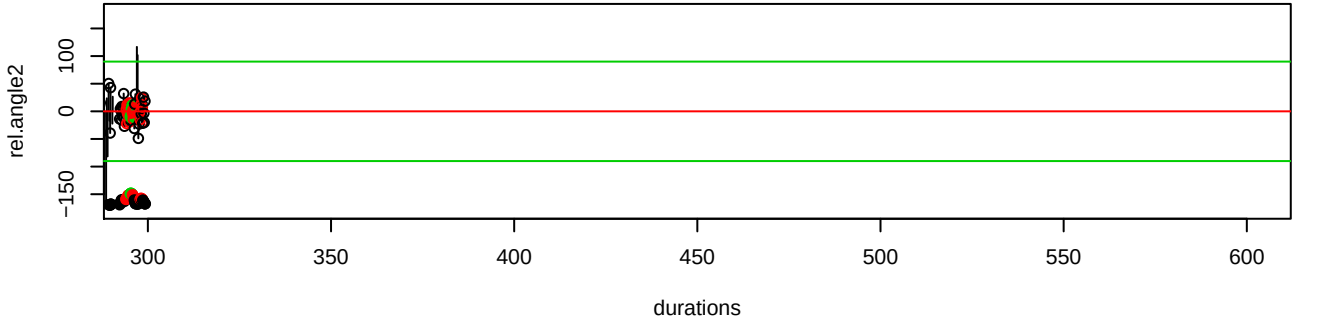

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

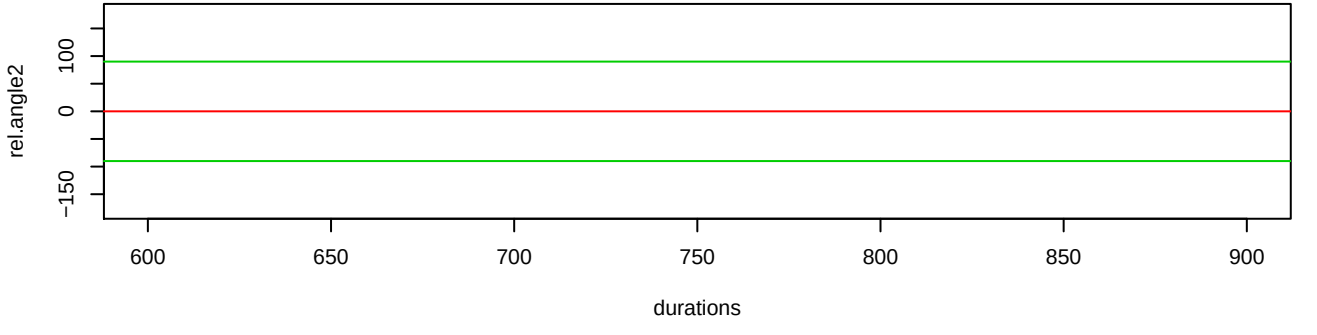

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0
1
2
3
log(speeds$speed)

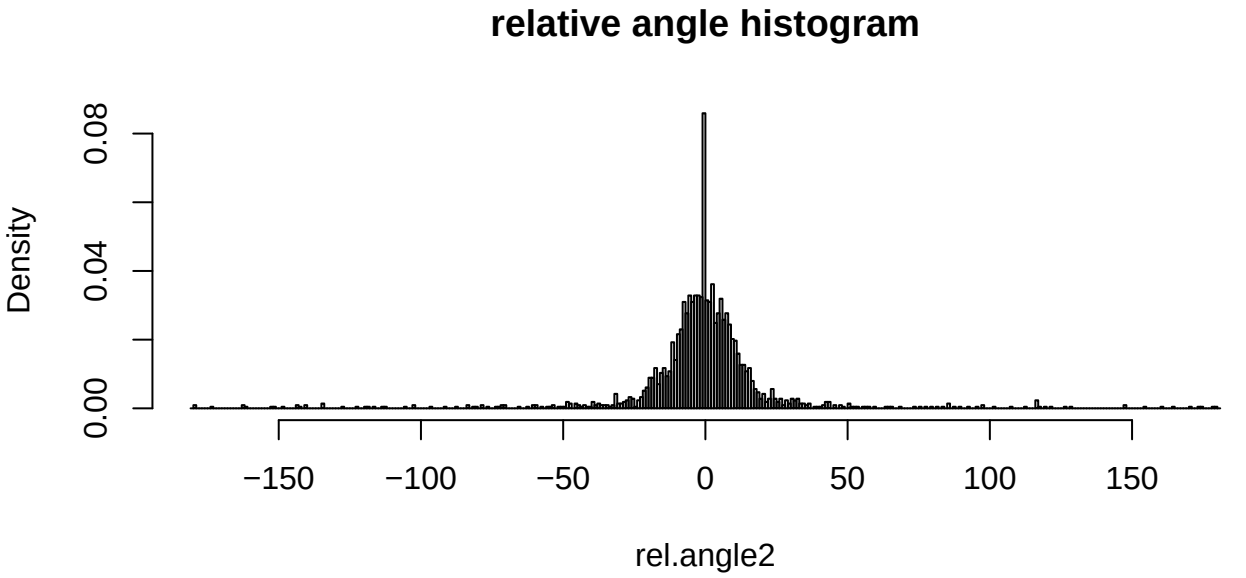

speed average per sec: 130_CSTZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

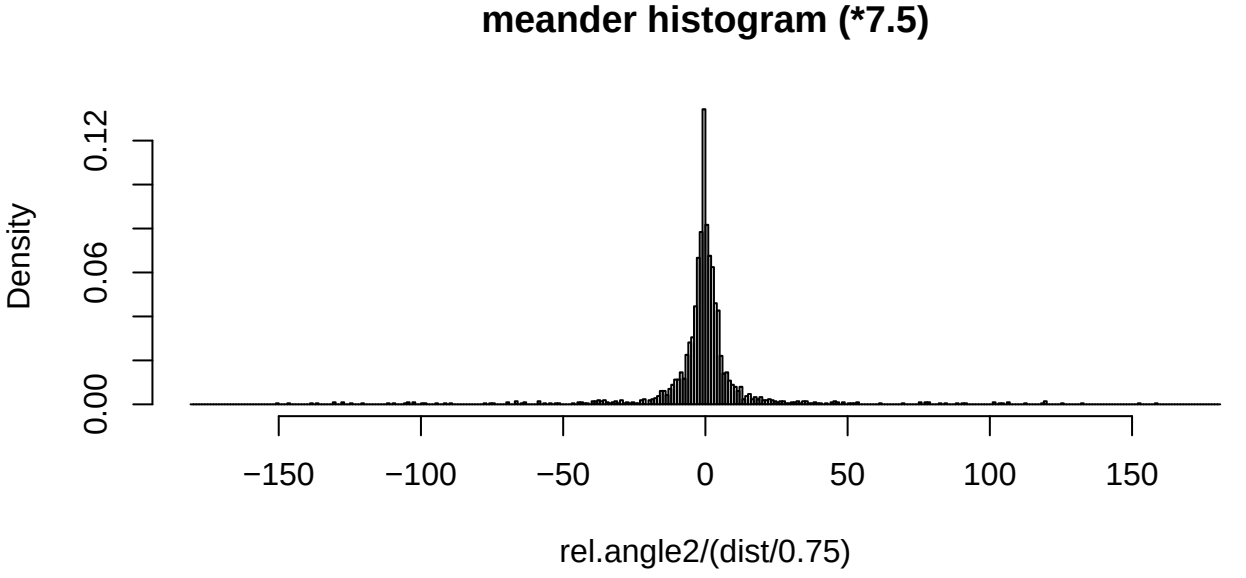

speed average per sec: 130_CSTZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

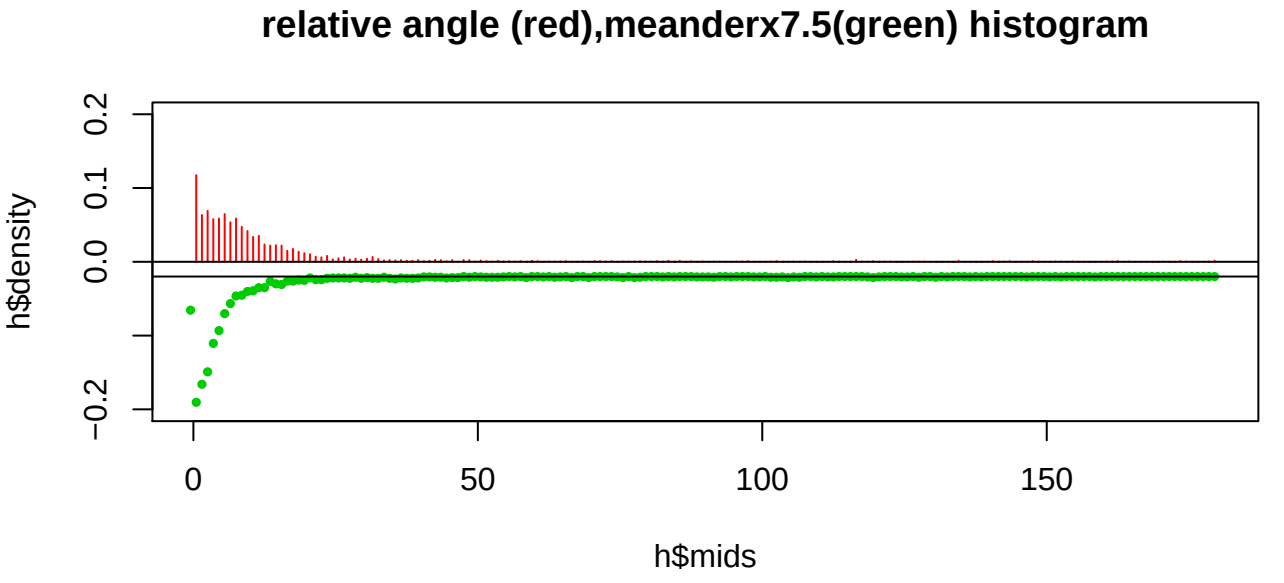

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

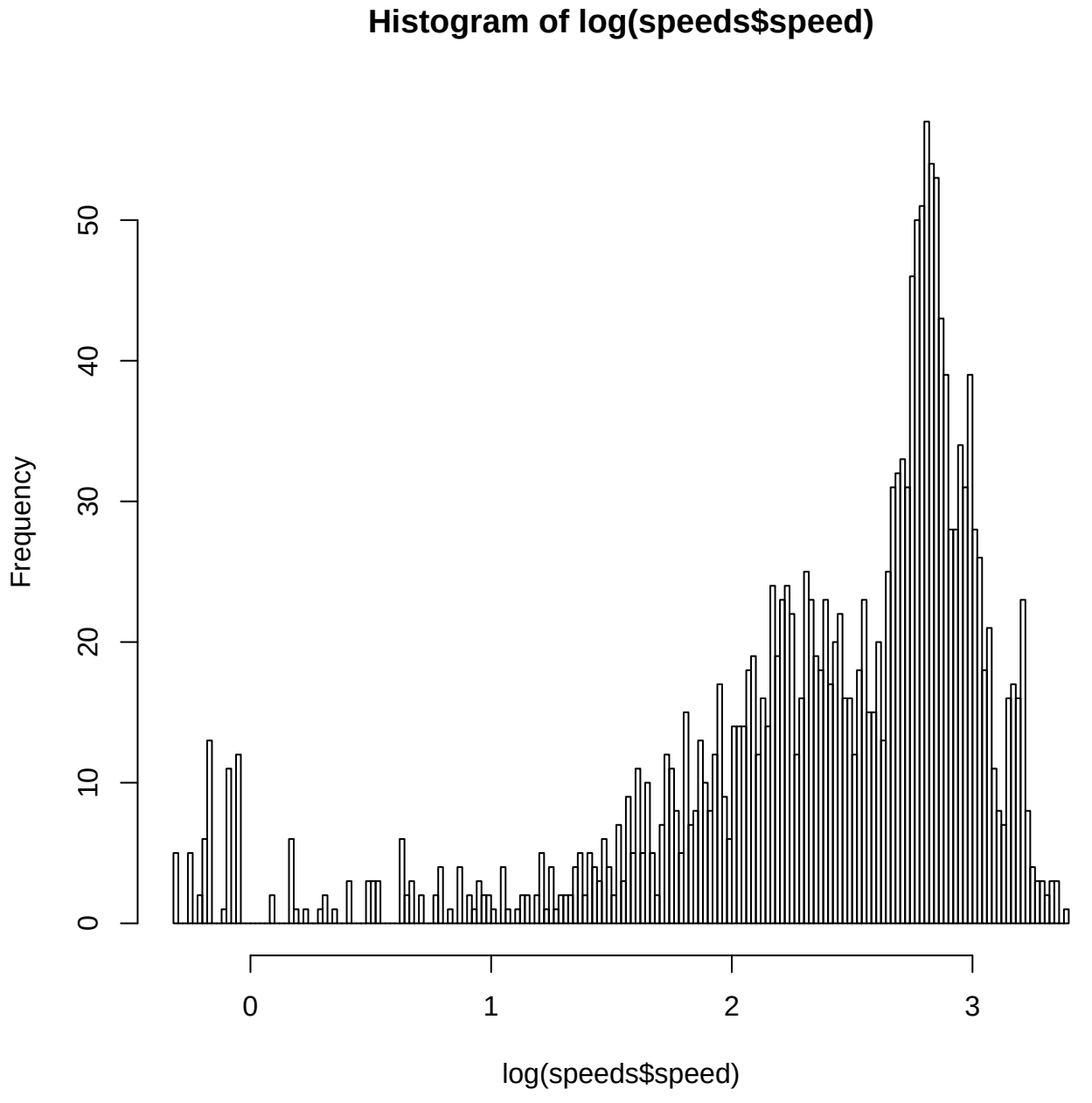

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

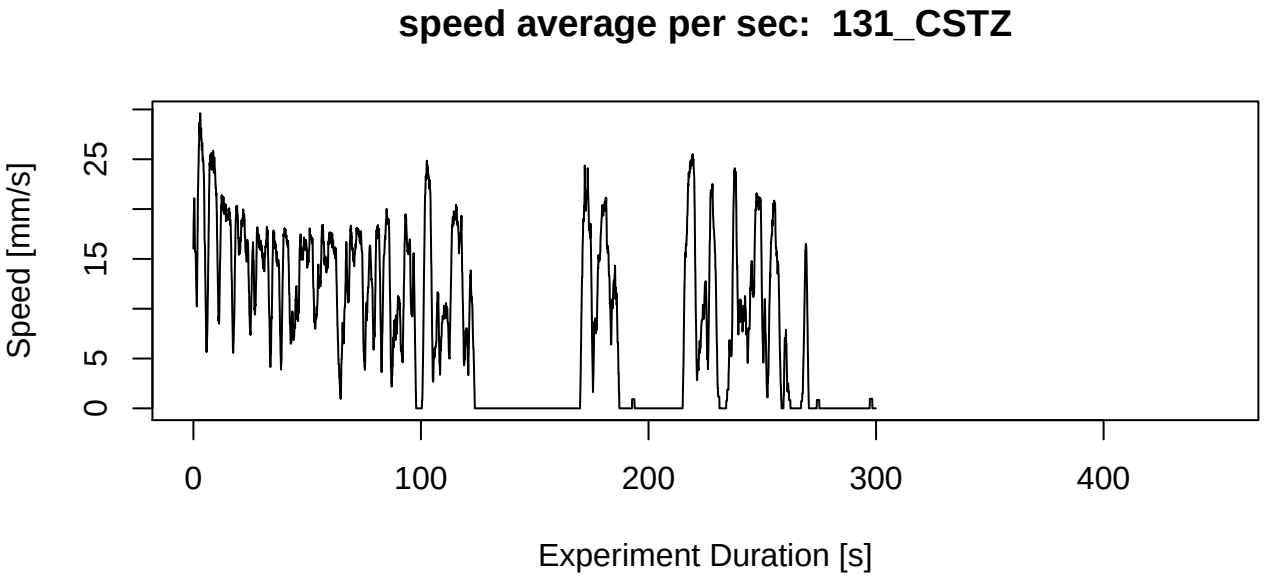

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

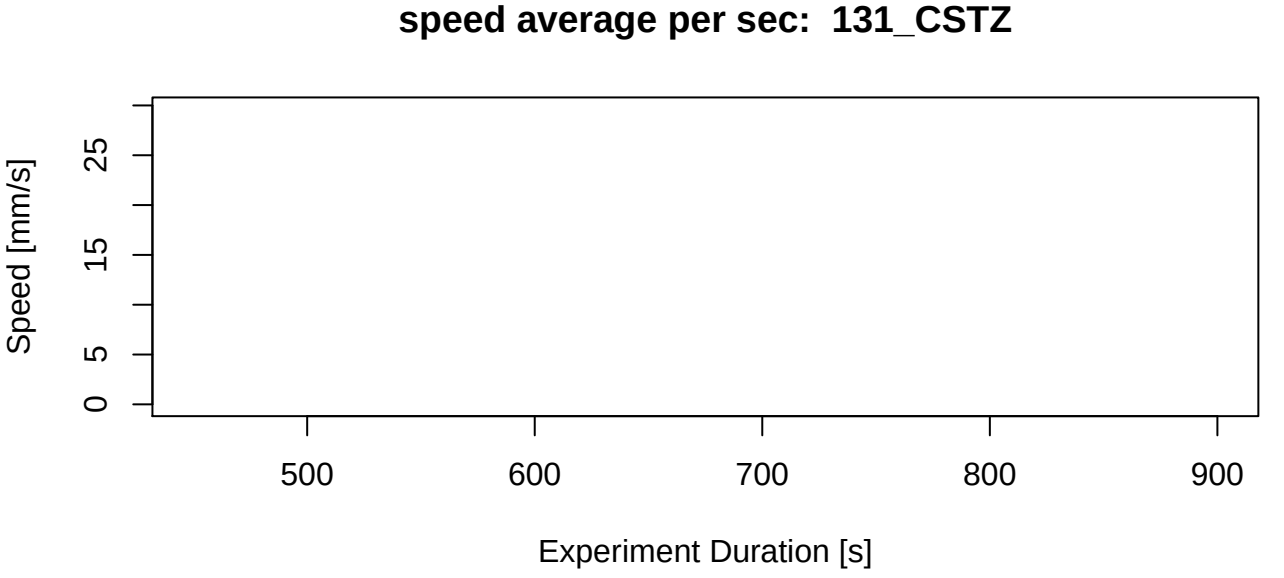

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

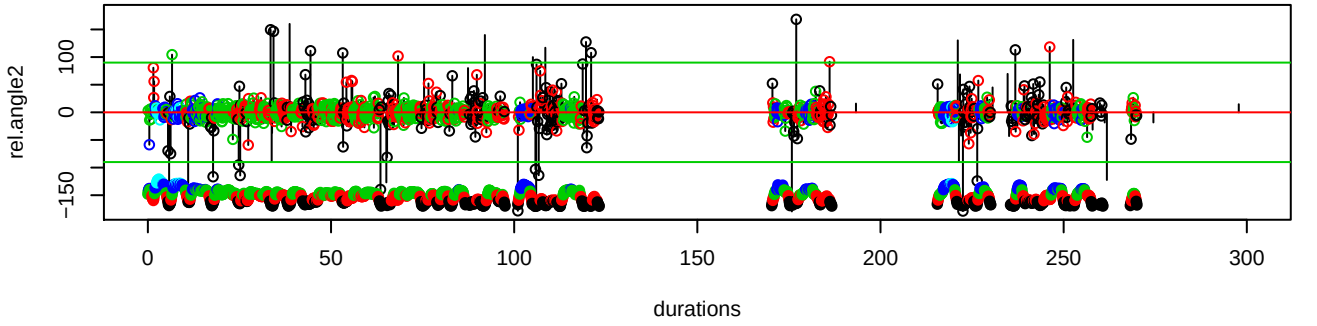

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

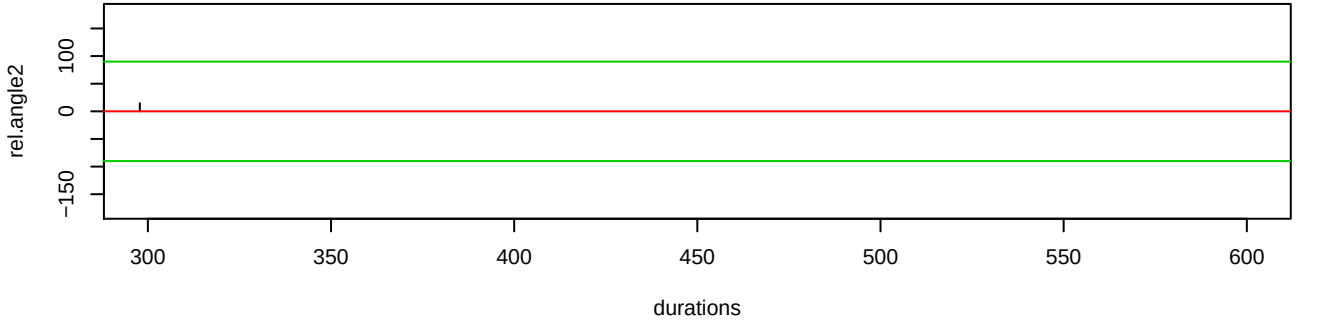

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

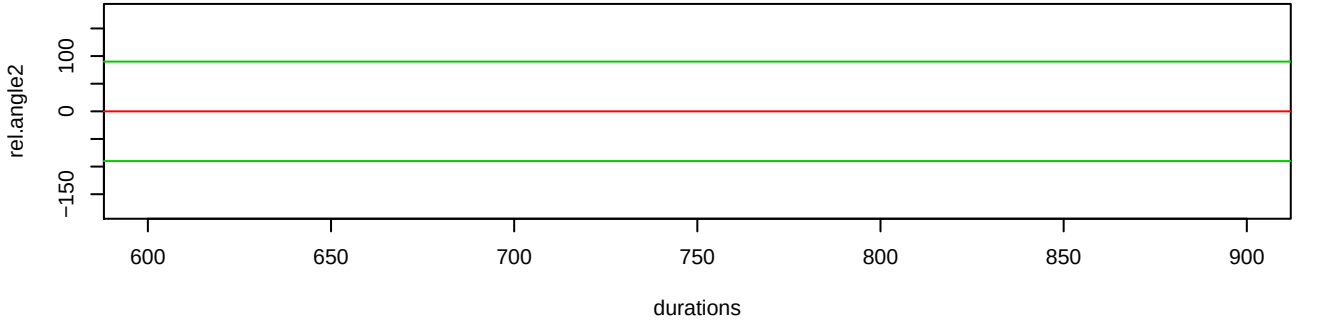

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0
1
2
3
log(speeds$speed)

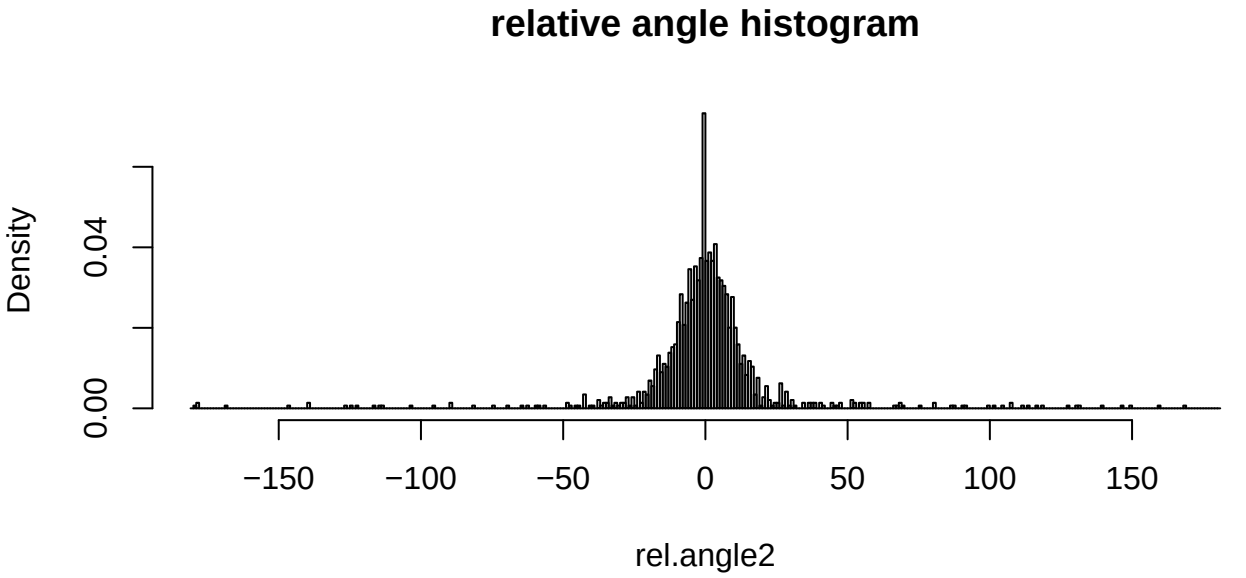

speed average per sec: 131_CSTZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

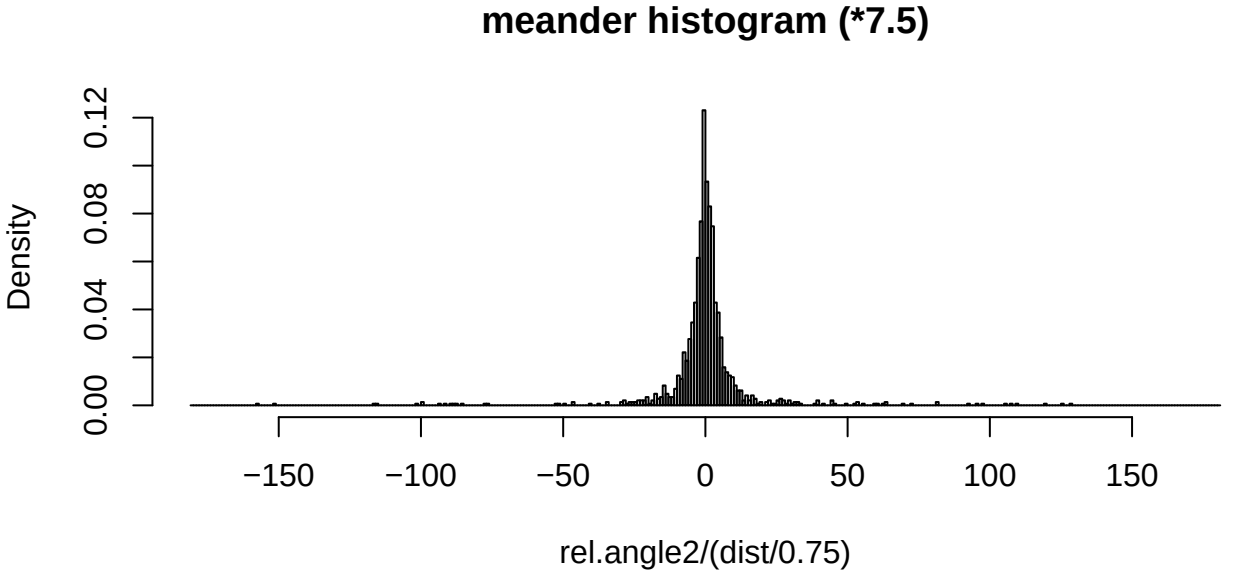

speed average per sec: 131_CSTZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

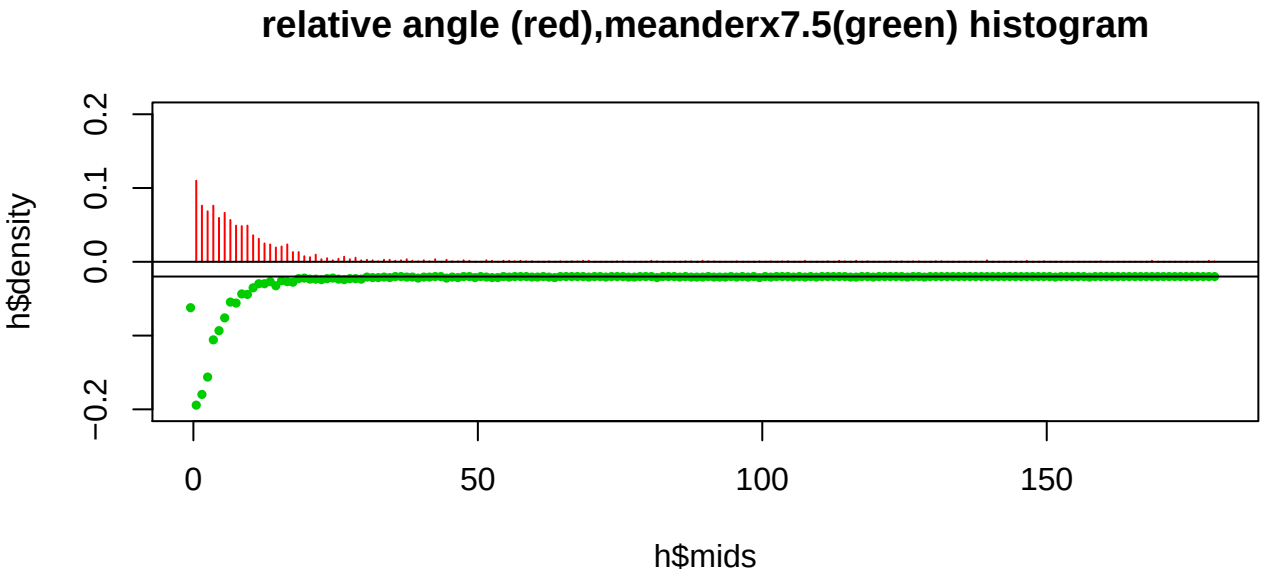

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

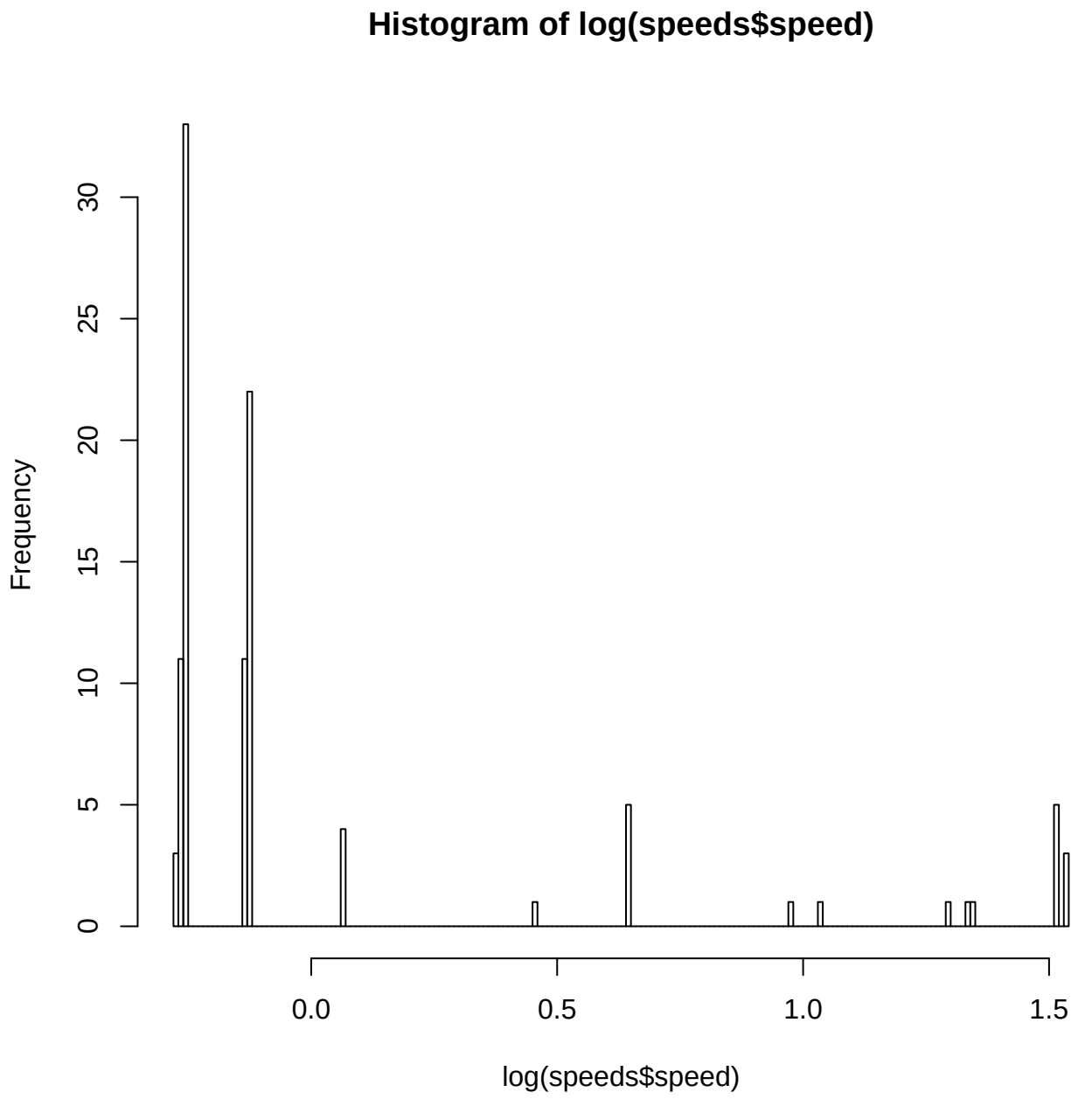

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

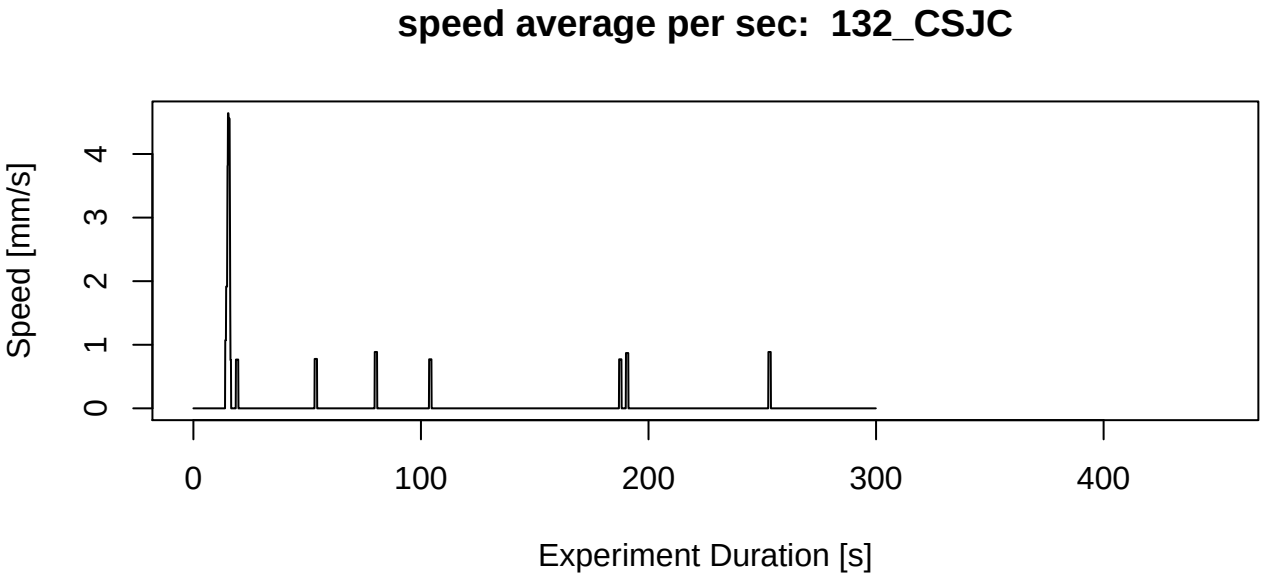

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

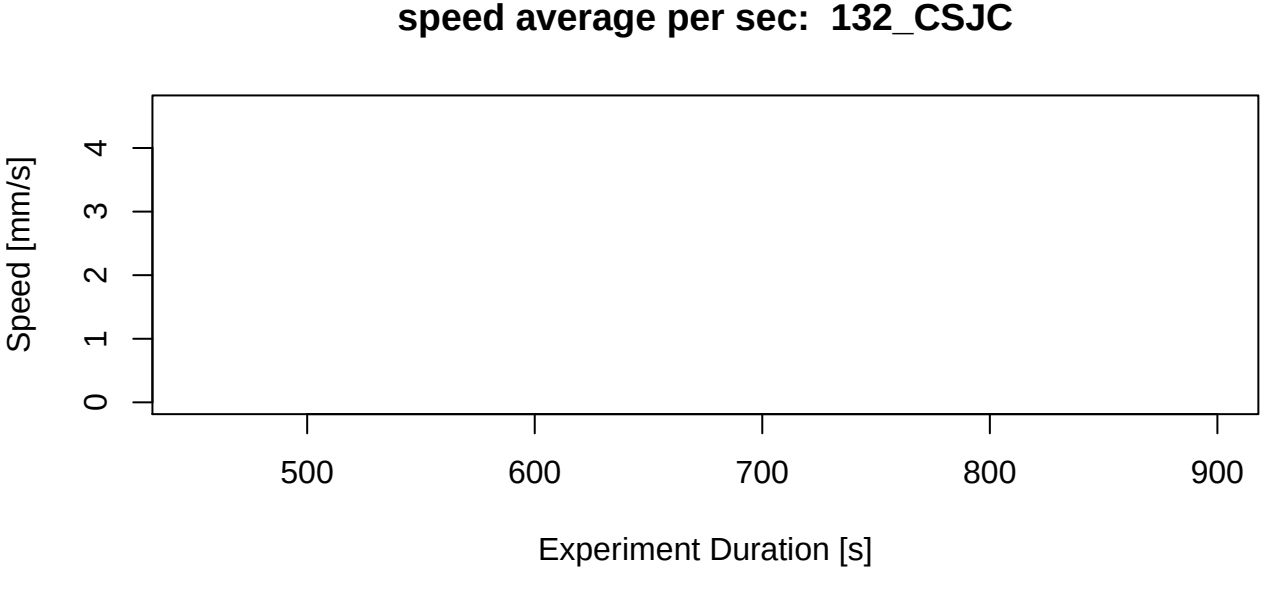

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

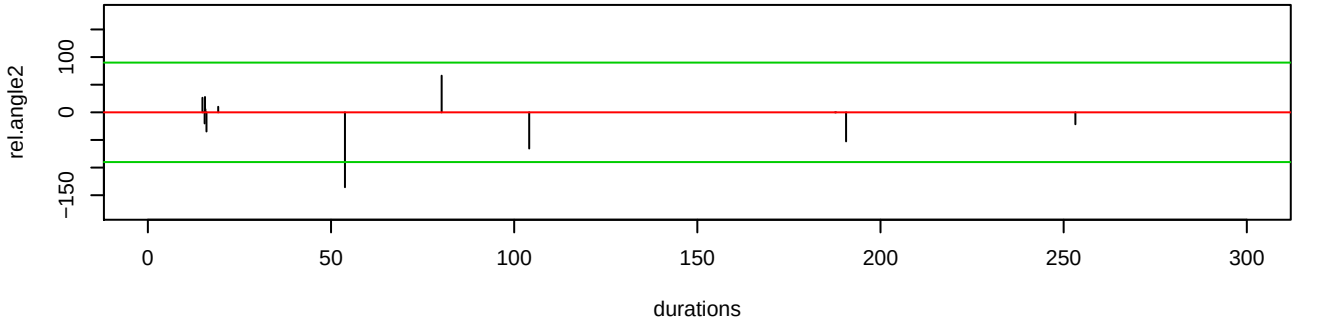

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

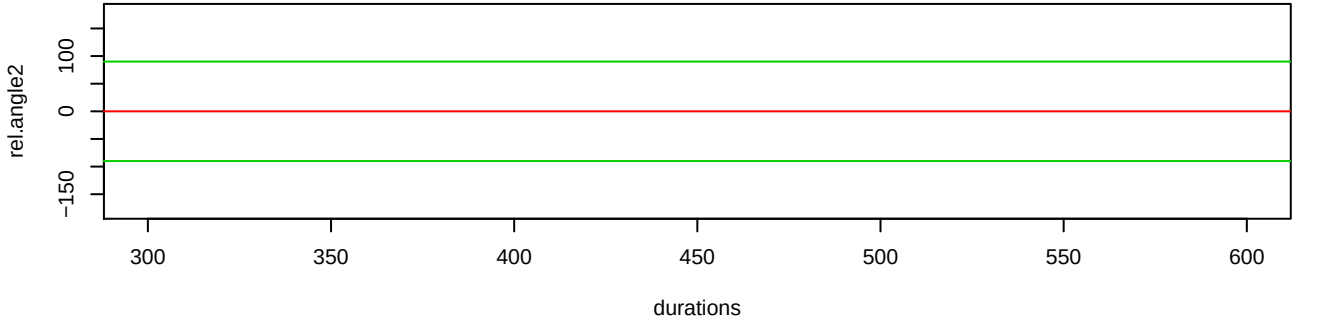

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

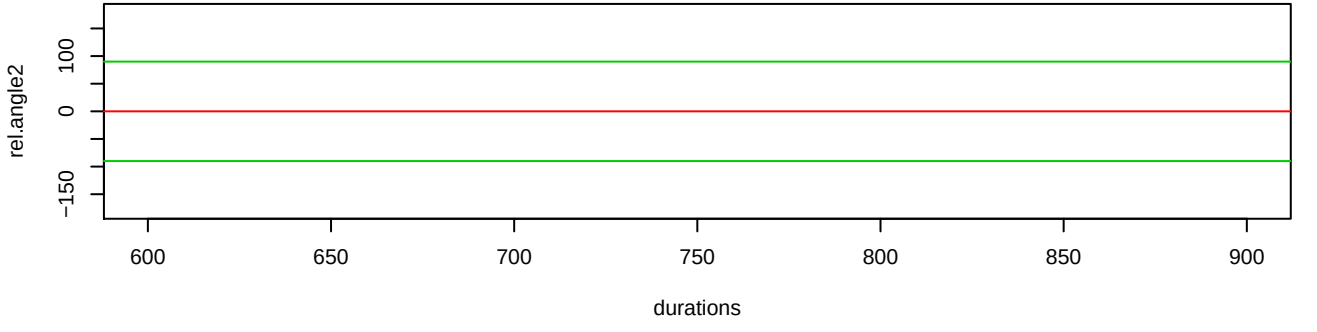

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0.0
0.5
1.0
1.5
log(speeds$speed)

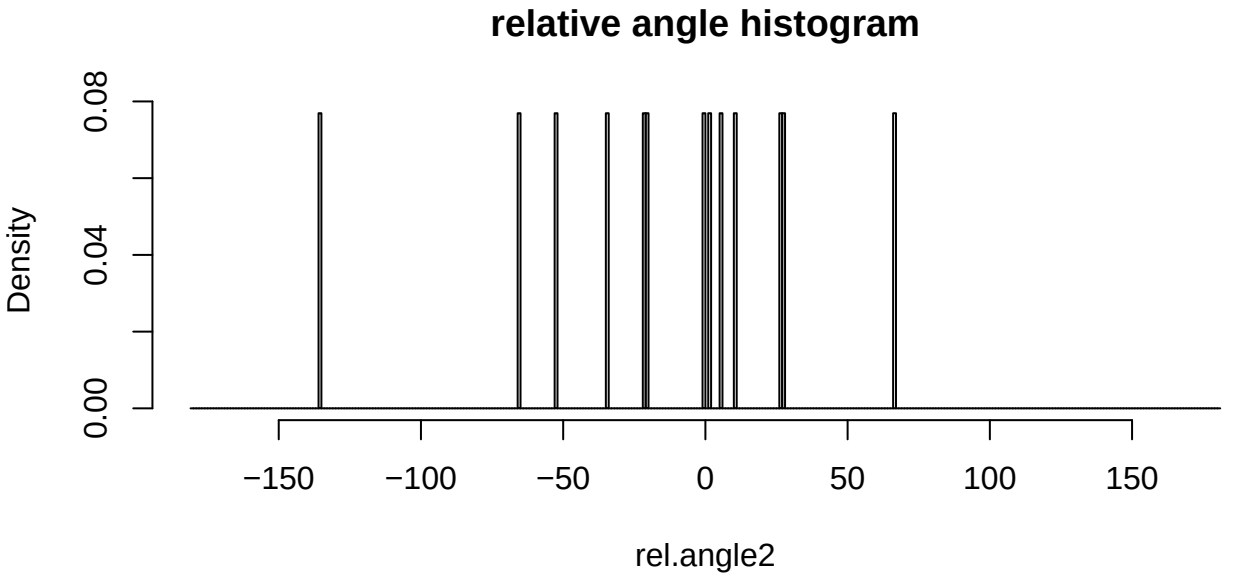

speed average per sec: 132_CSJC
Speed [mm/s]
0
1
2
3
4
0
100
200
300
400
Experiment Duration [s]

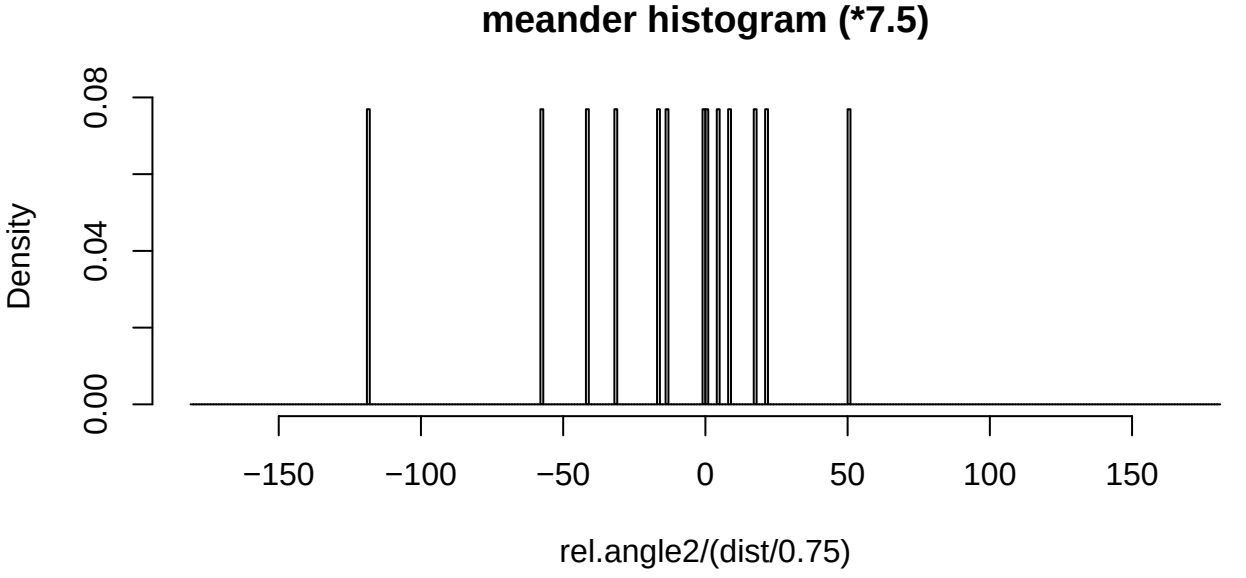

speed average per sec: 132_CSJC
Speed [mm/s]
0
1
2
3
4
500
600
700
800
900
Experiment Duration [s]

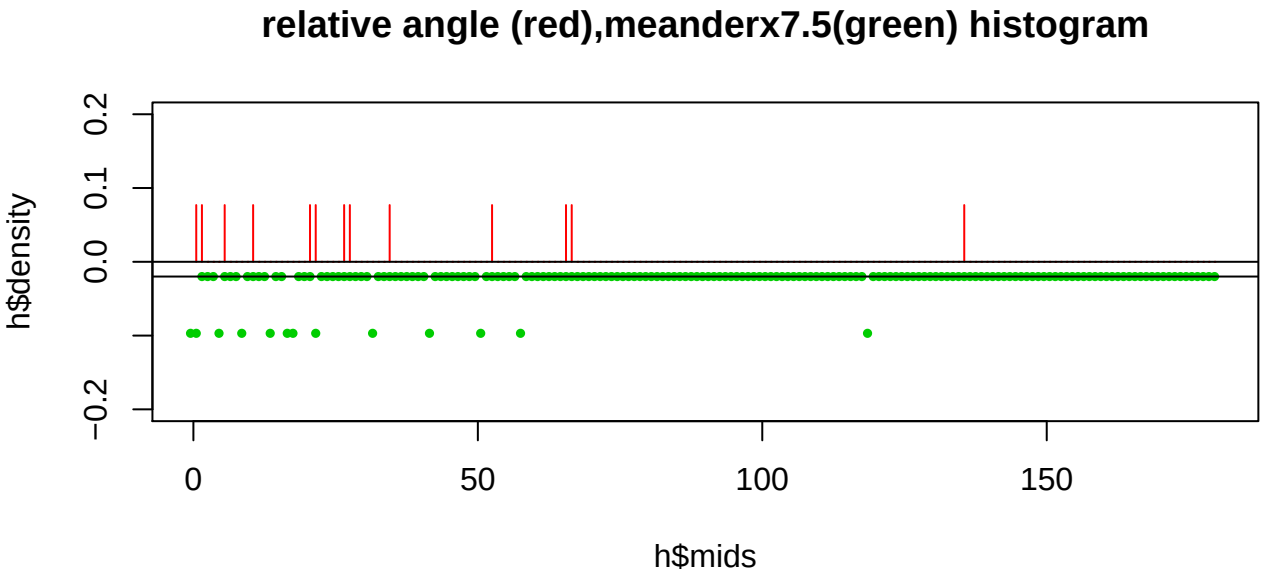

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

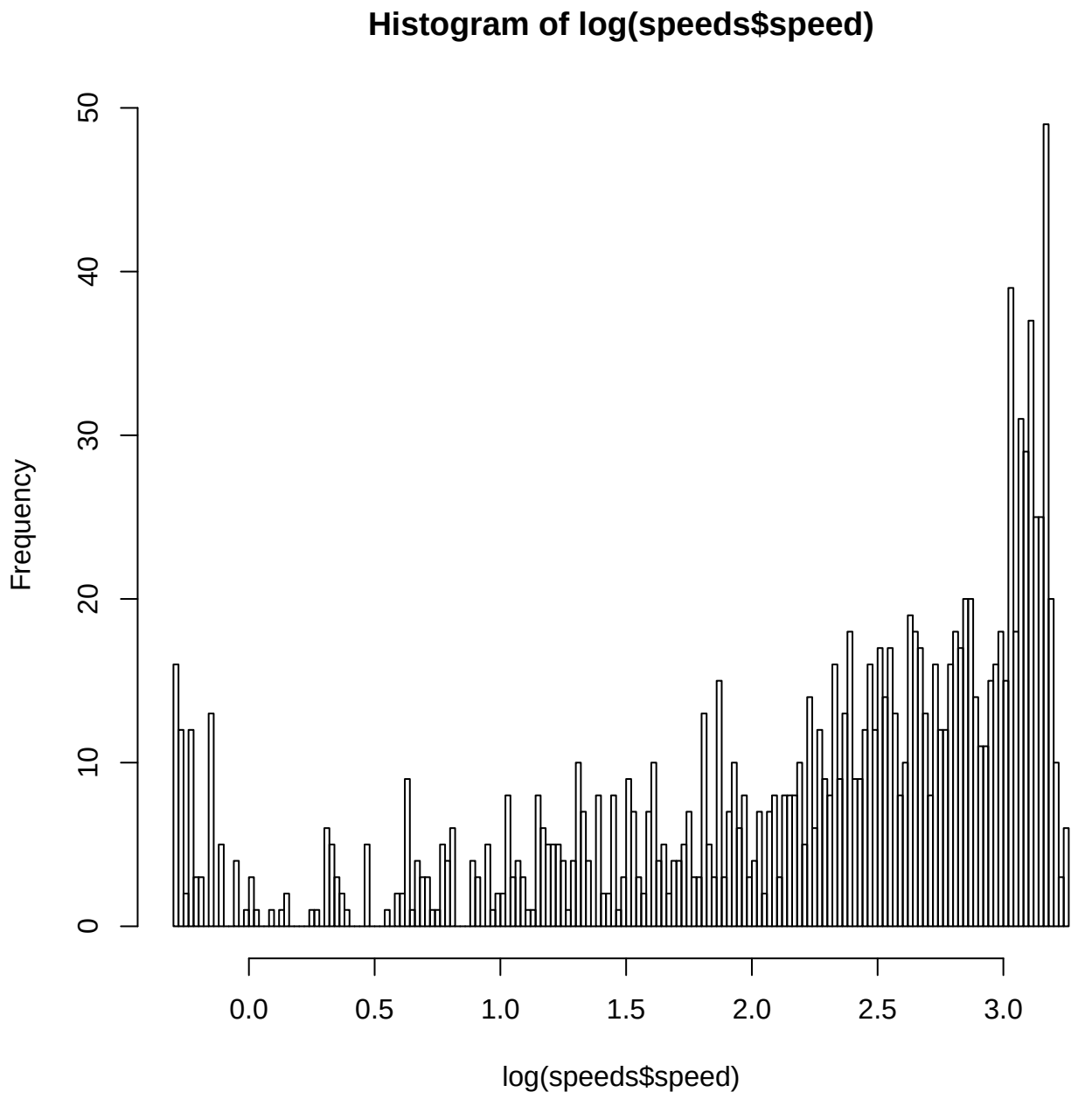

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

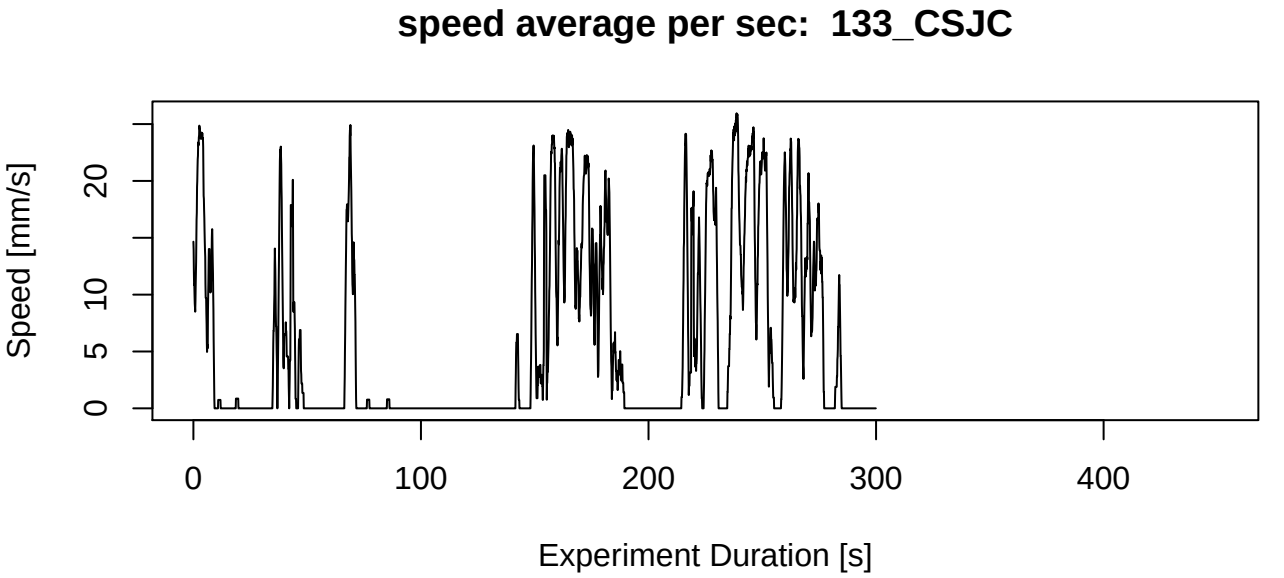

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

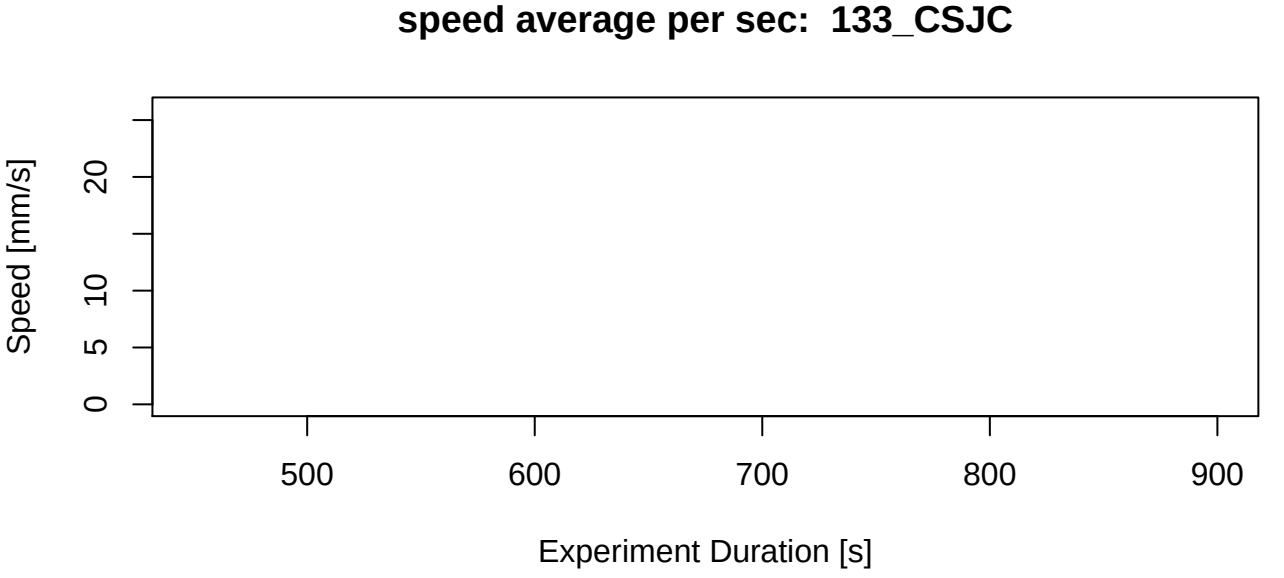

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

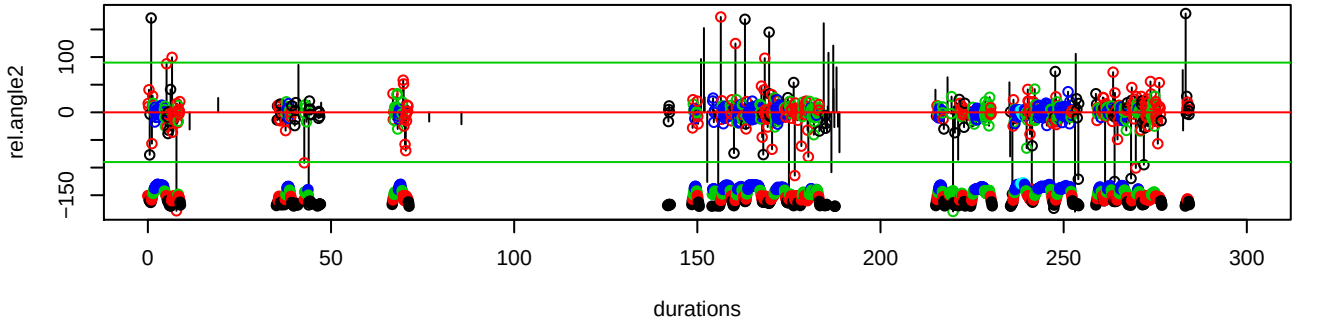

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

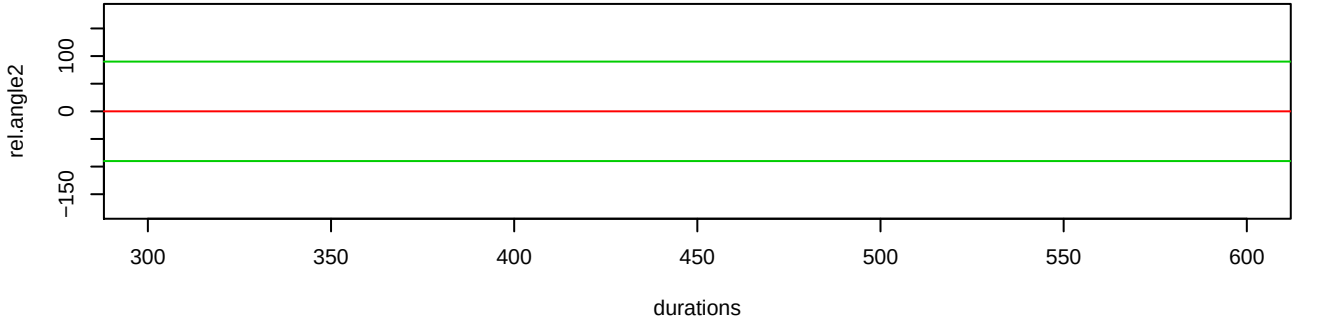

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

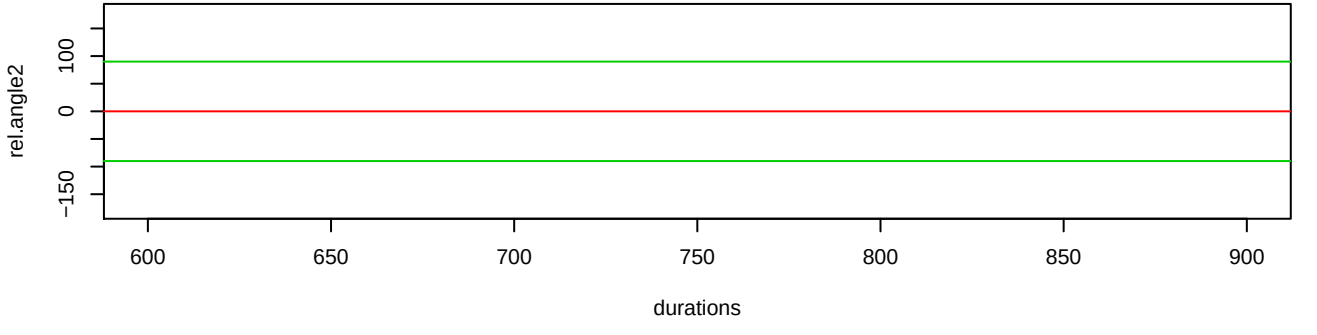

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

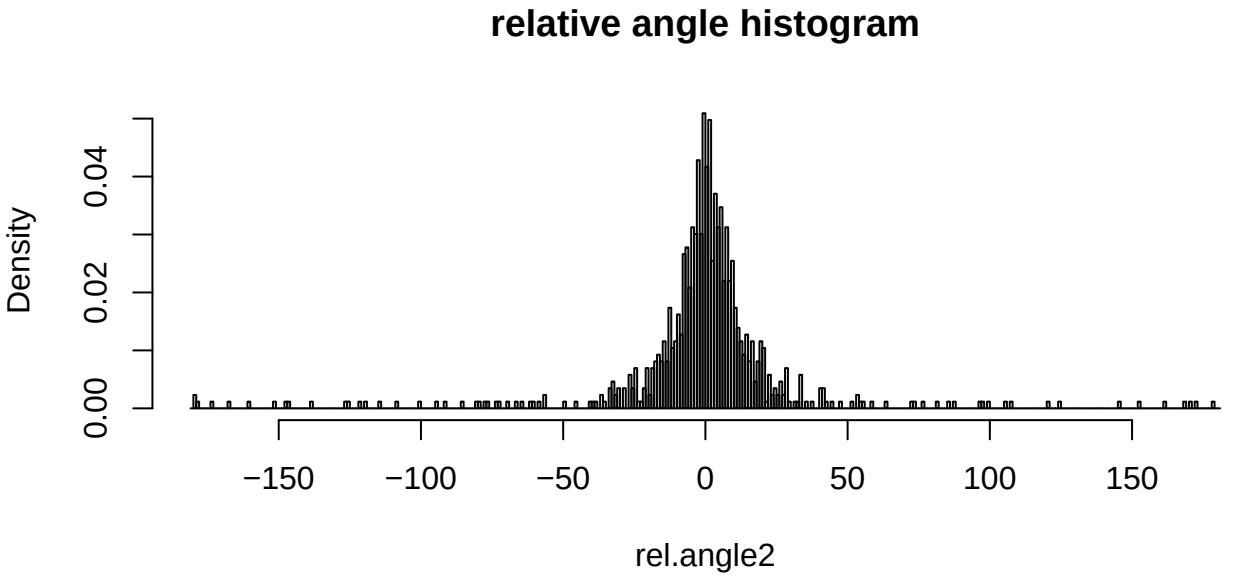

speed average per sec: 133_CSJC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

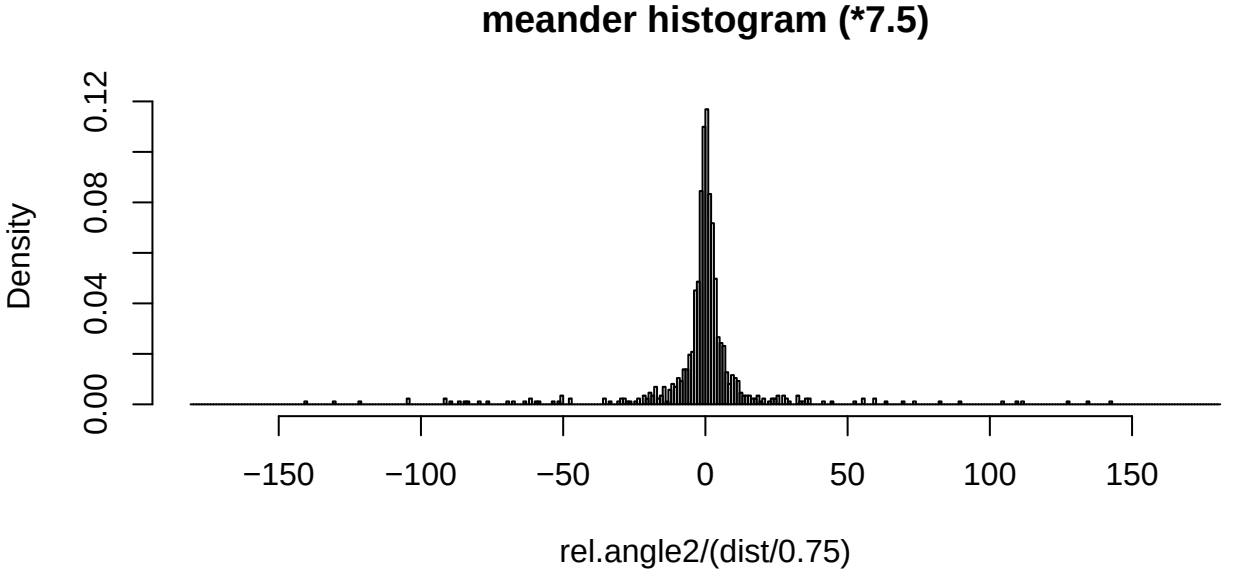

speed average per sec: 133_CSJC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

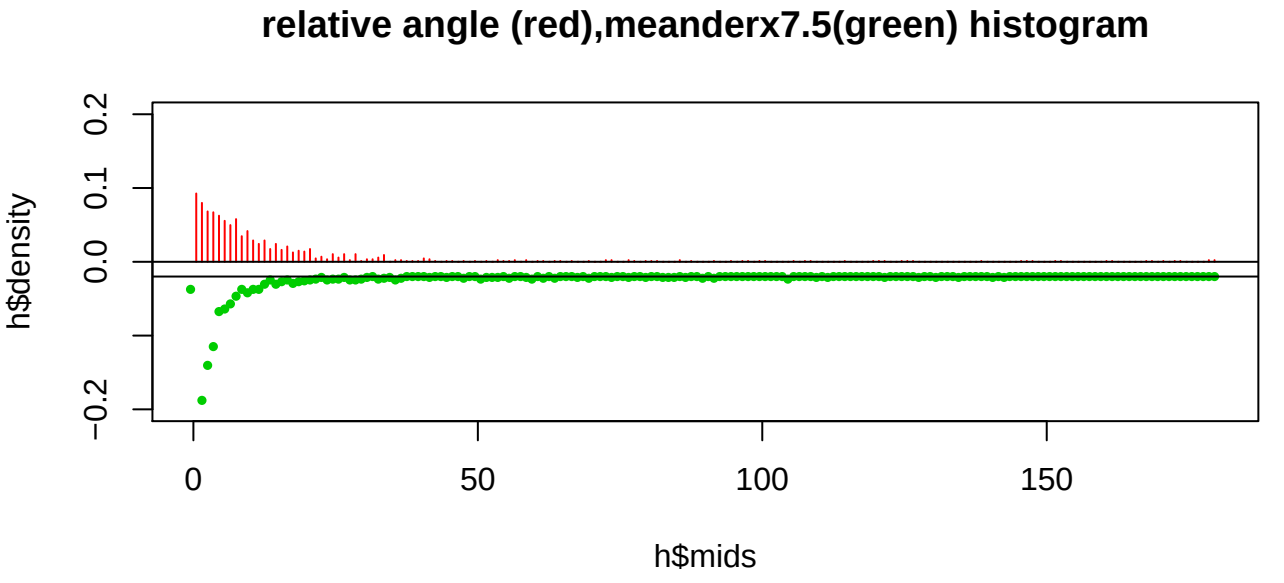

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

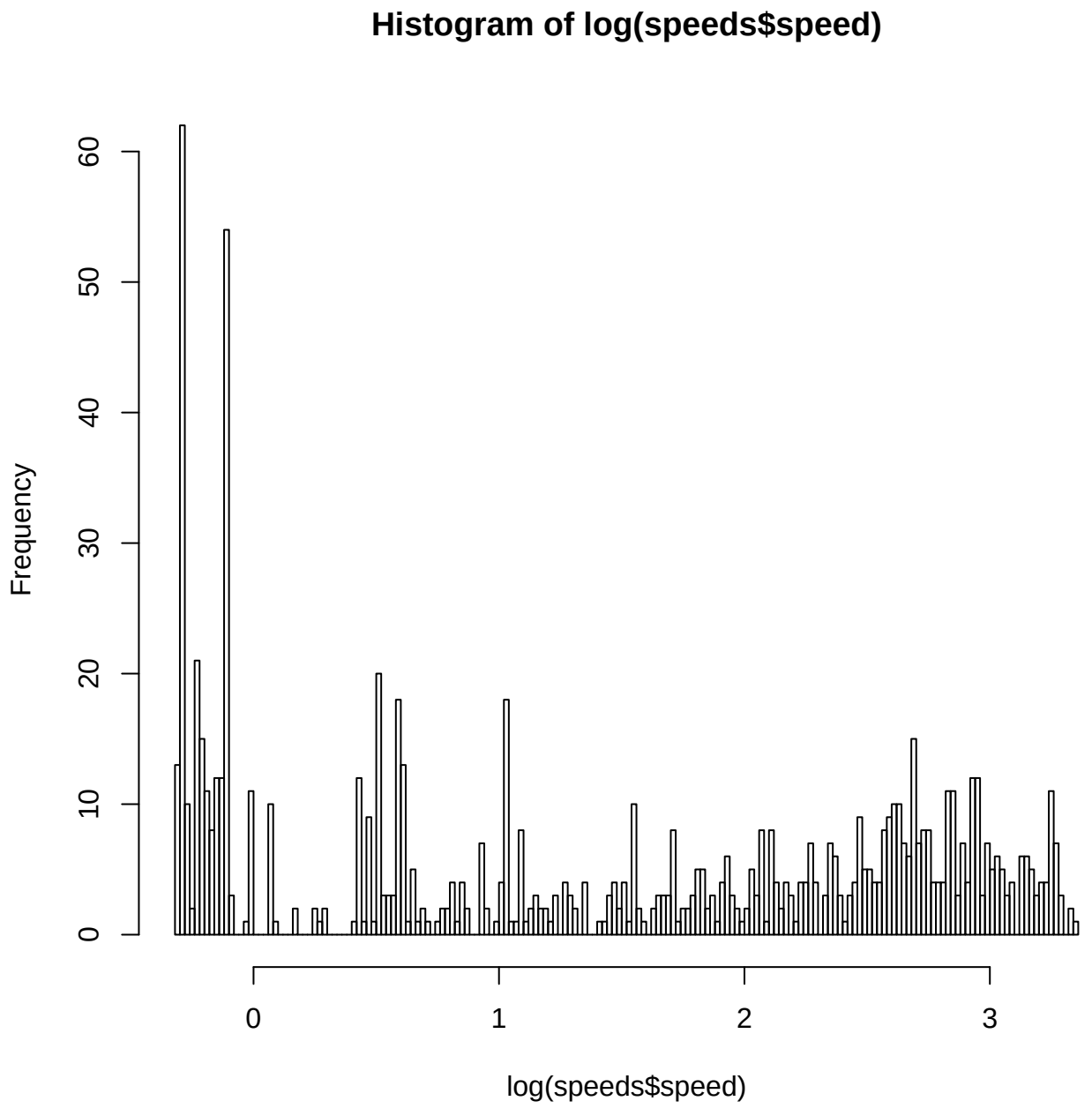

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

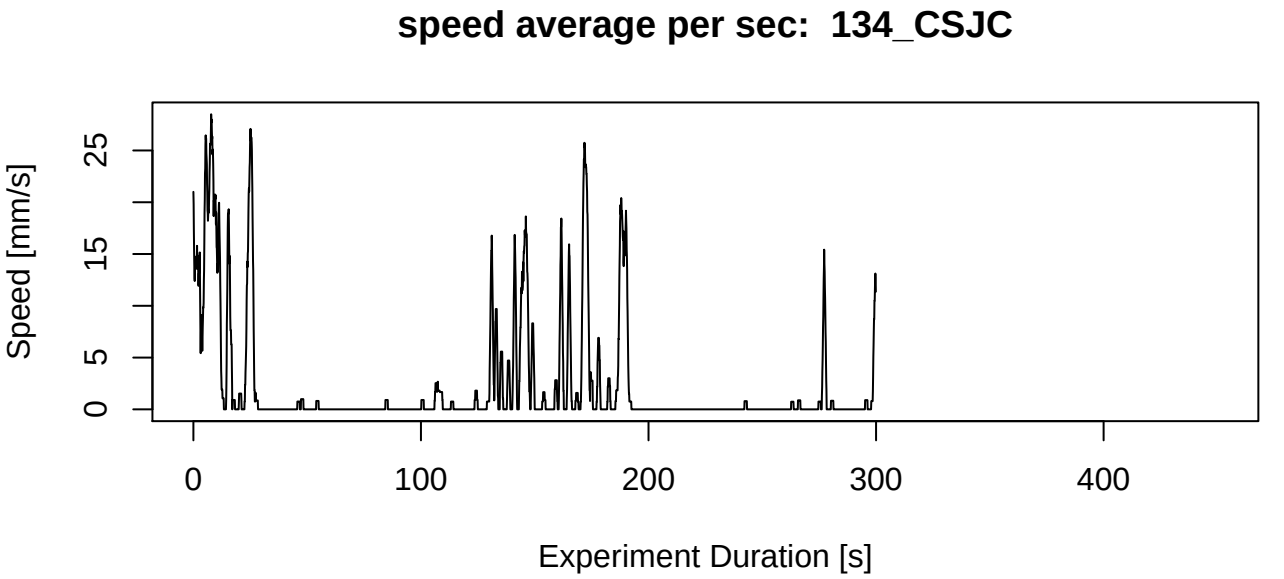

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

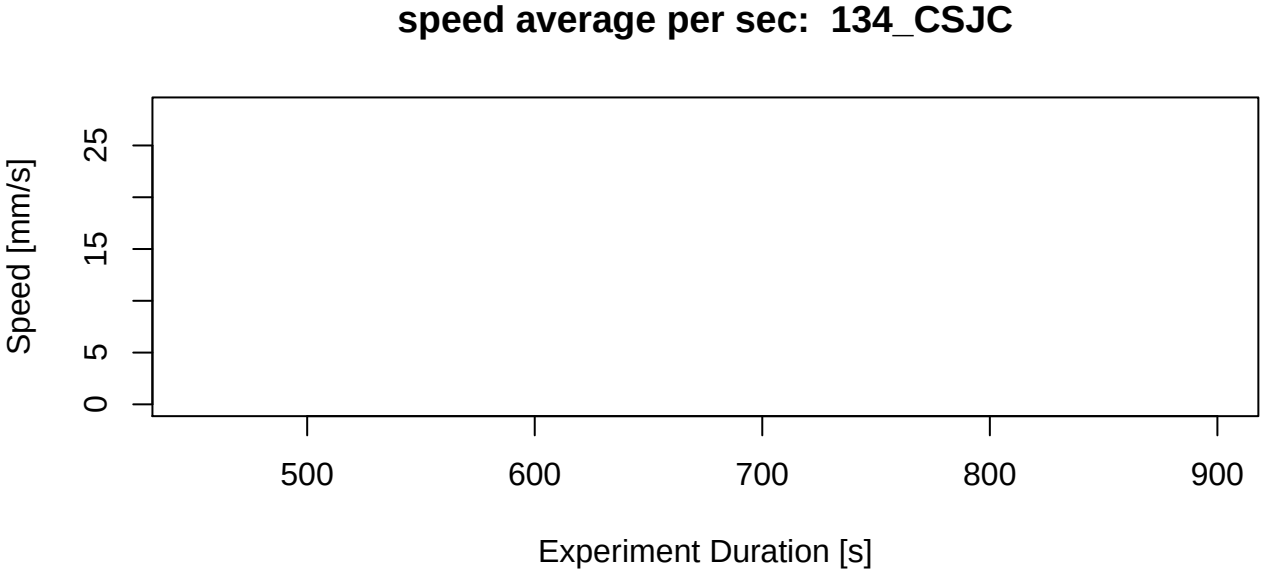

relative angle histogram
Density
0.00
0.02
0.04
−150
−100
−50
0
50
100
150
rel.angle2

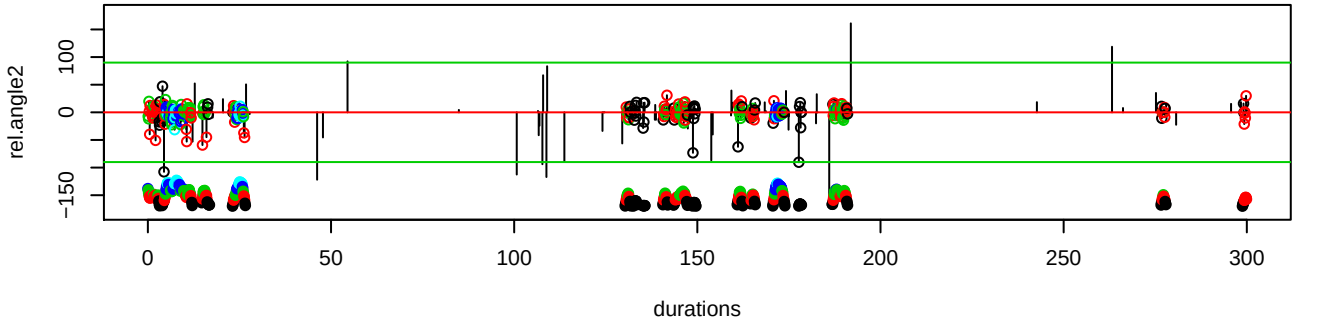

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

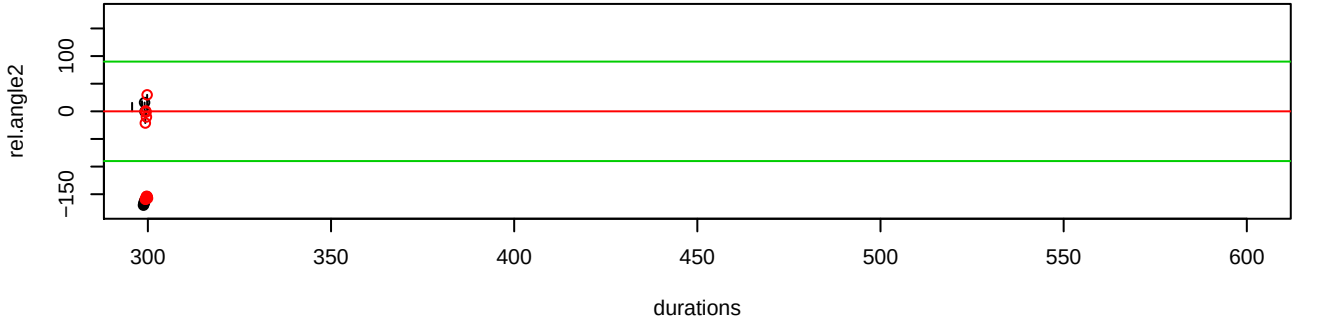

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

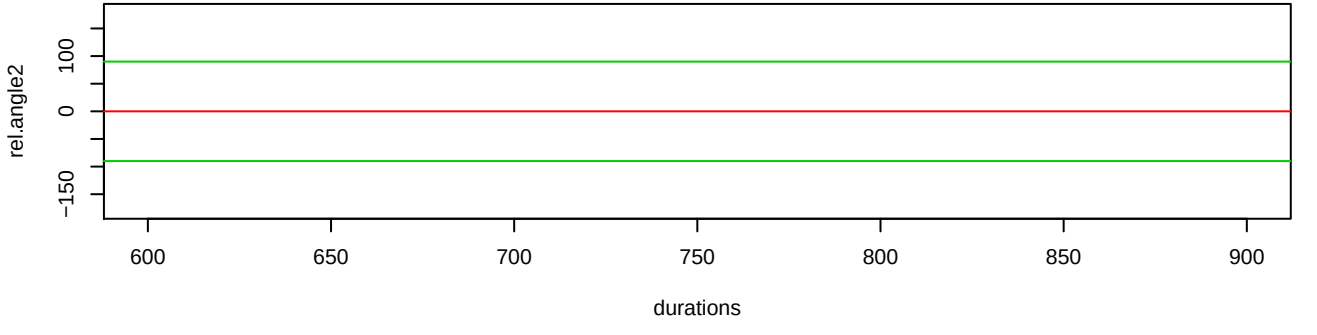

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0
1
2
3
log(speeds$speed)

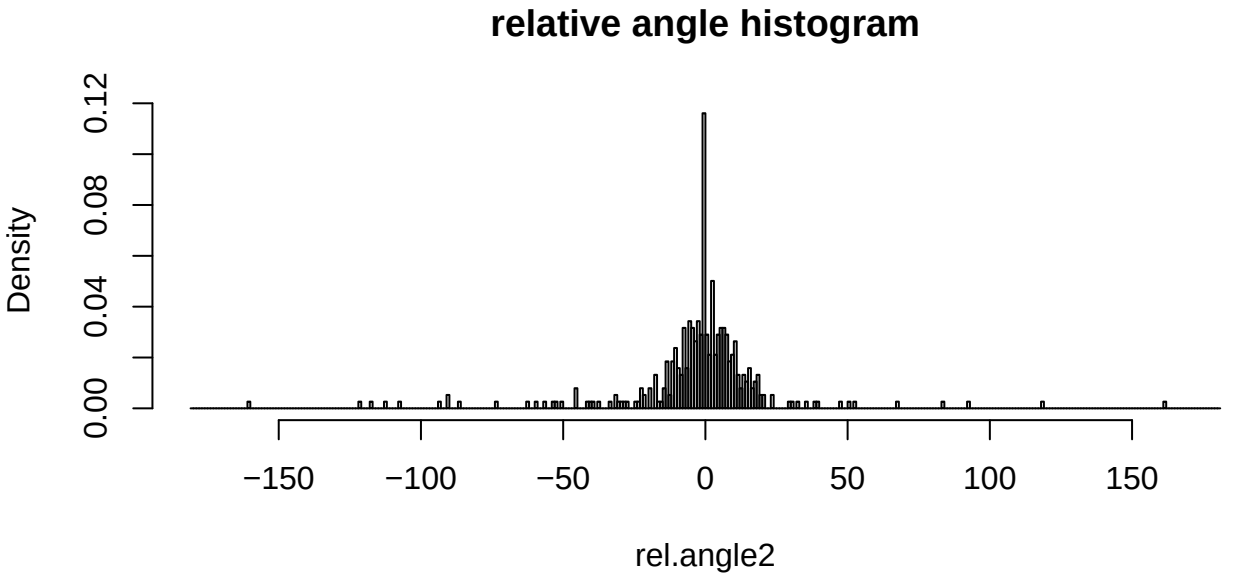

speed average per sec: 134_CSJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

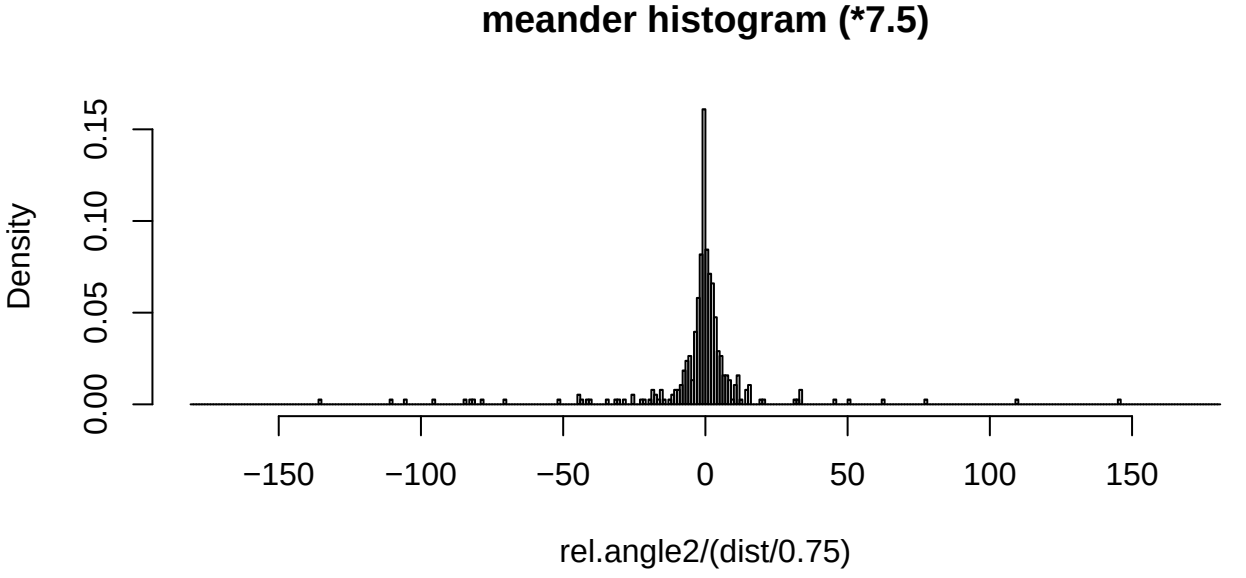

speed average per sec: 134_CSJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

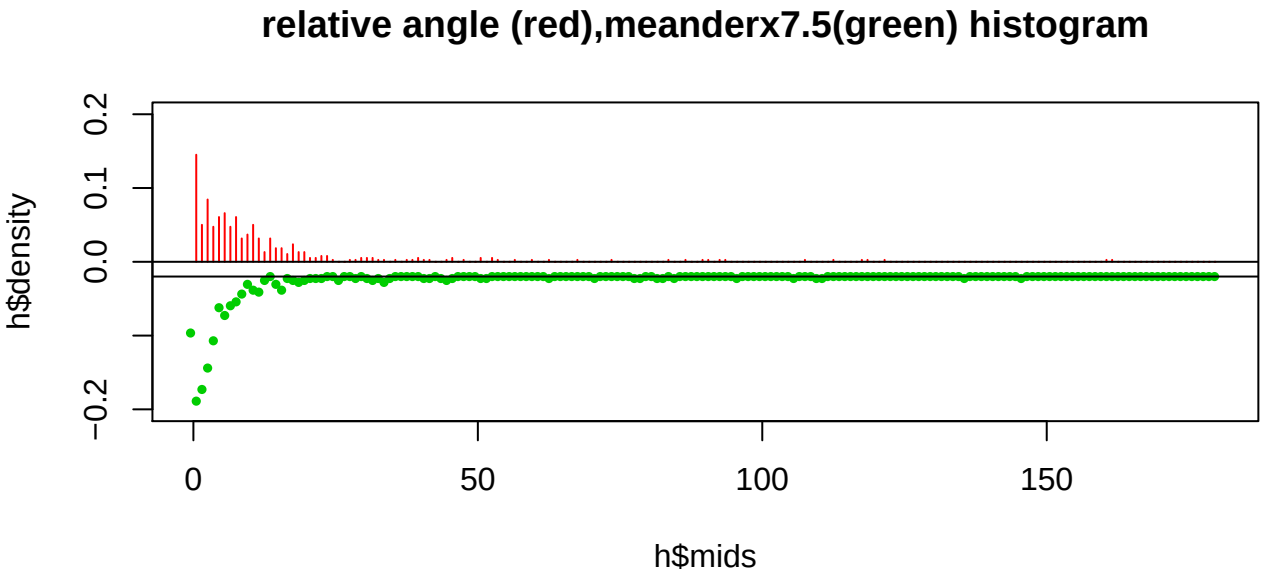

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

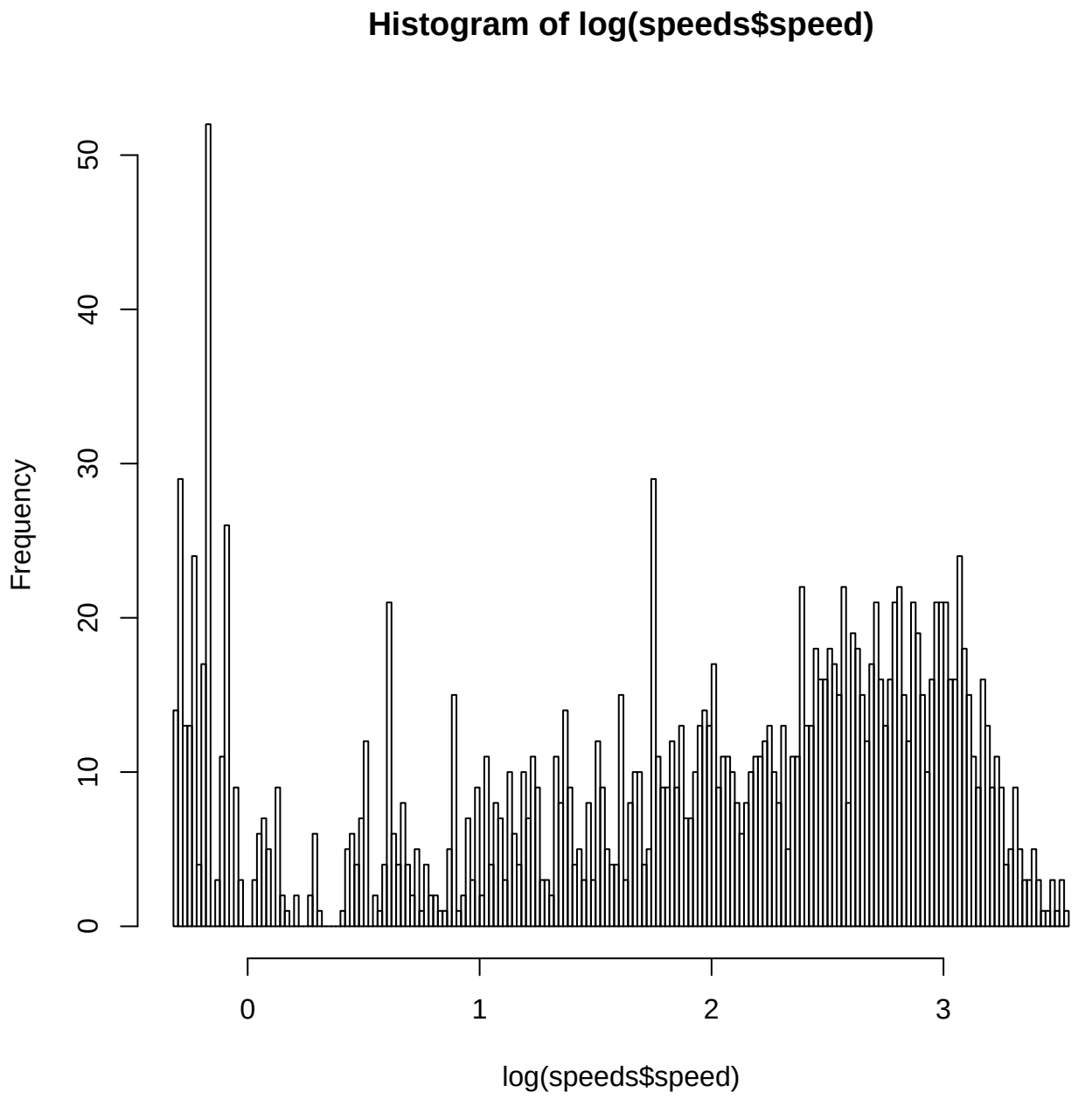

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

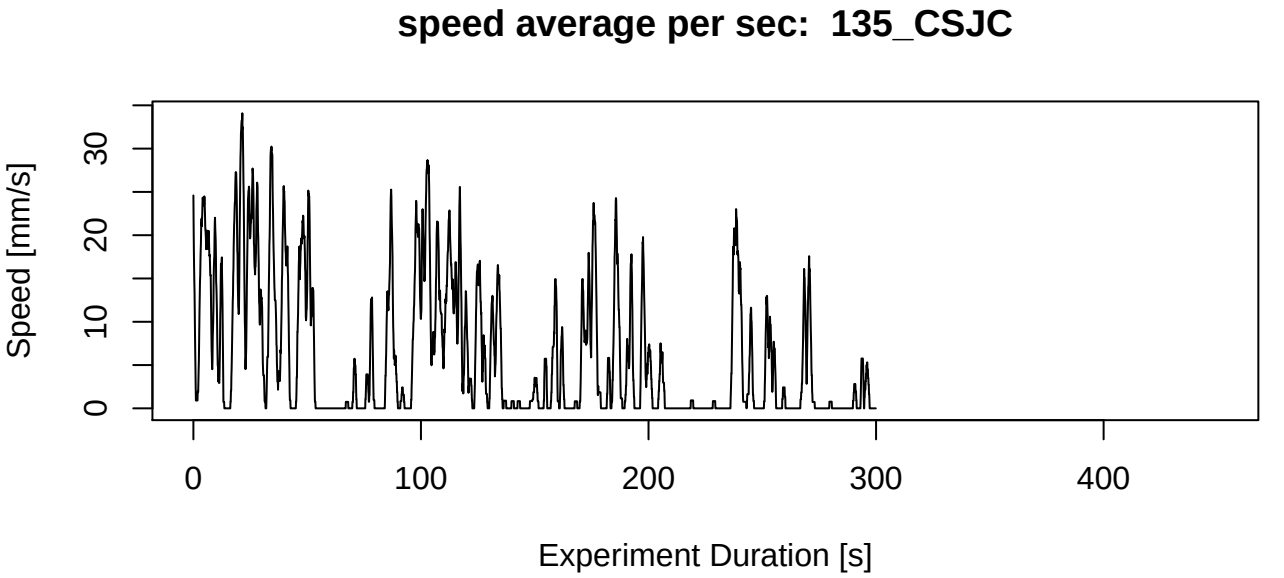

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

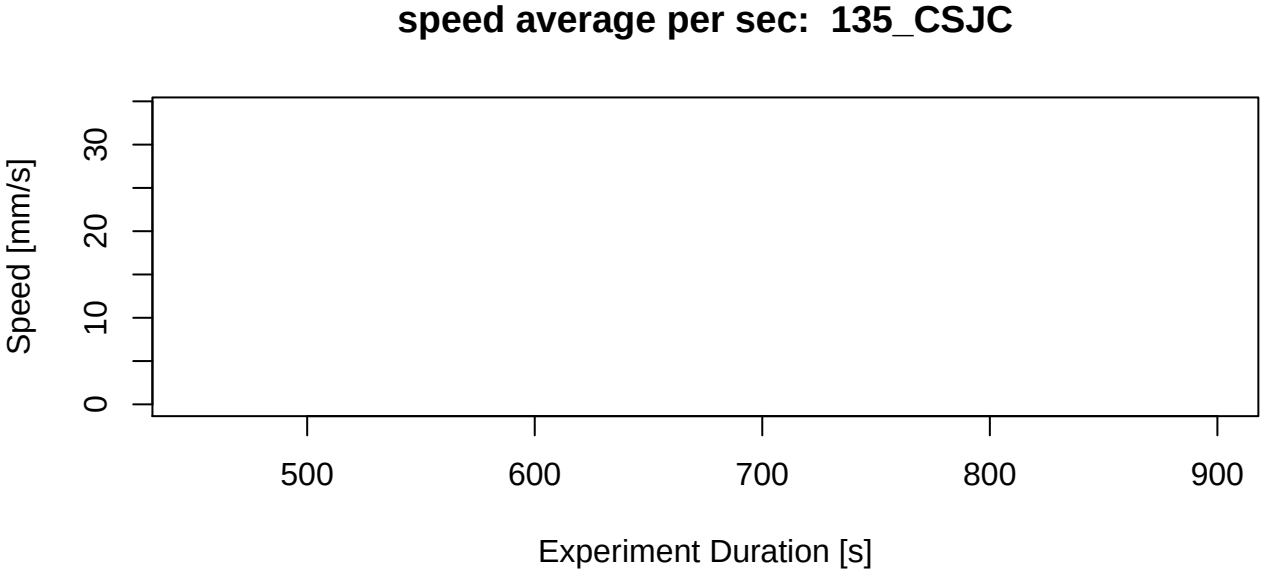

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

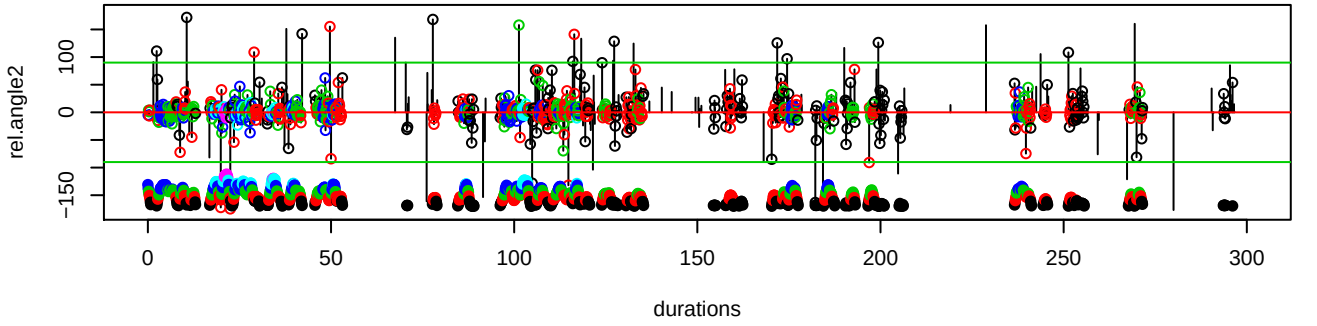

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

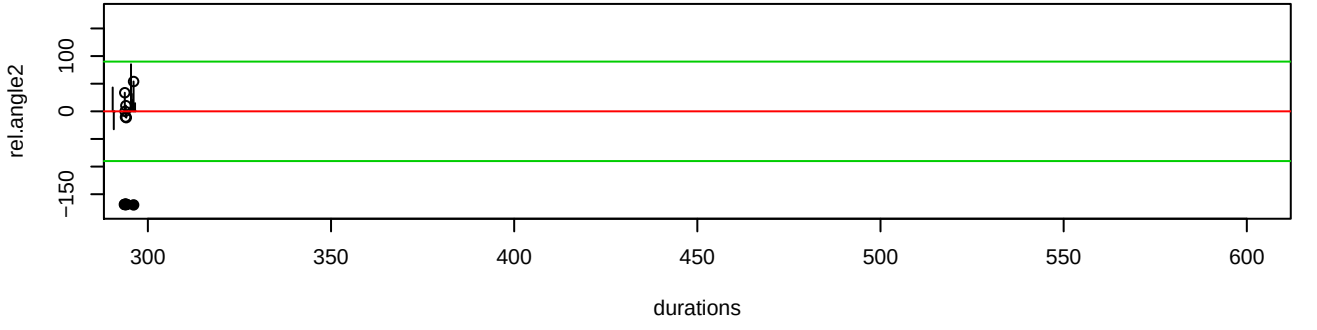

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

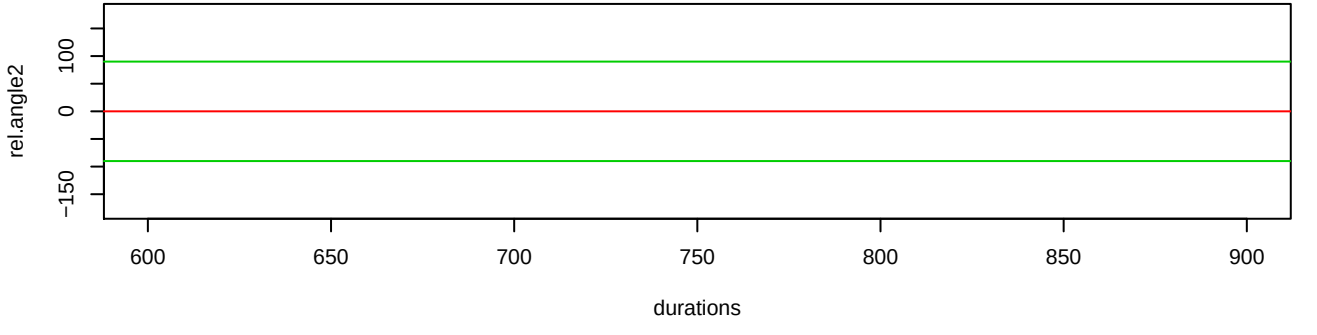

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0
1
2
3
log(speeds$speed)

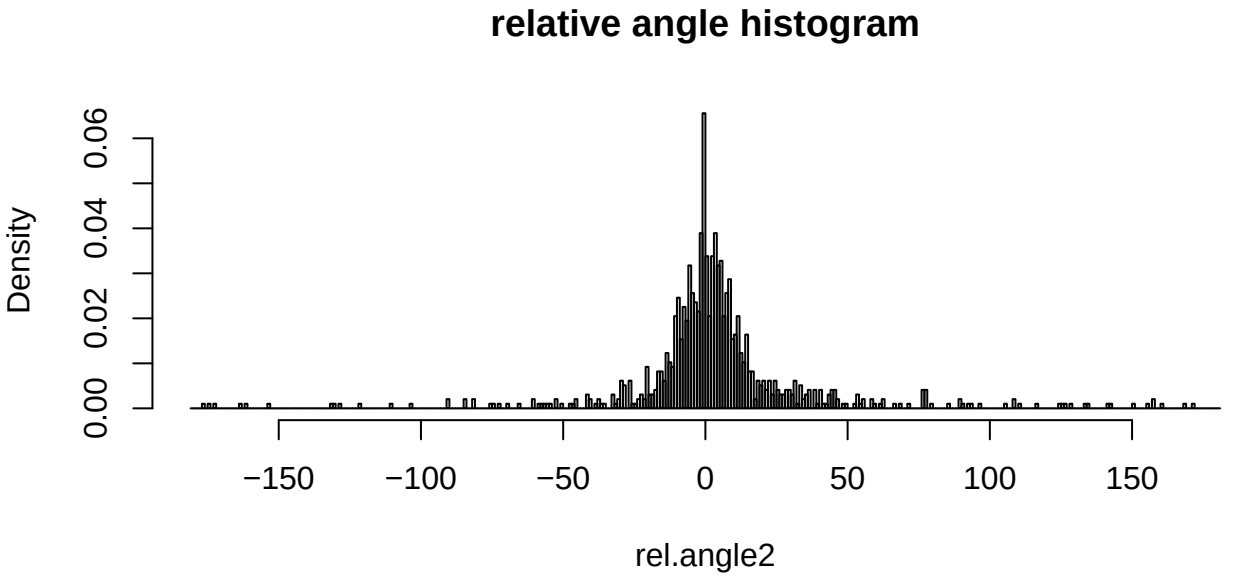

speed average per sec: 135_CSJC
Speed [mm/s]
0
10
20
30
0
100
200
300
400
Experiment Duration [s]

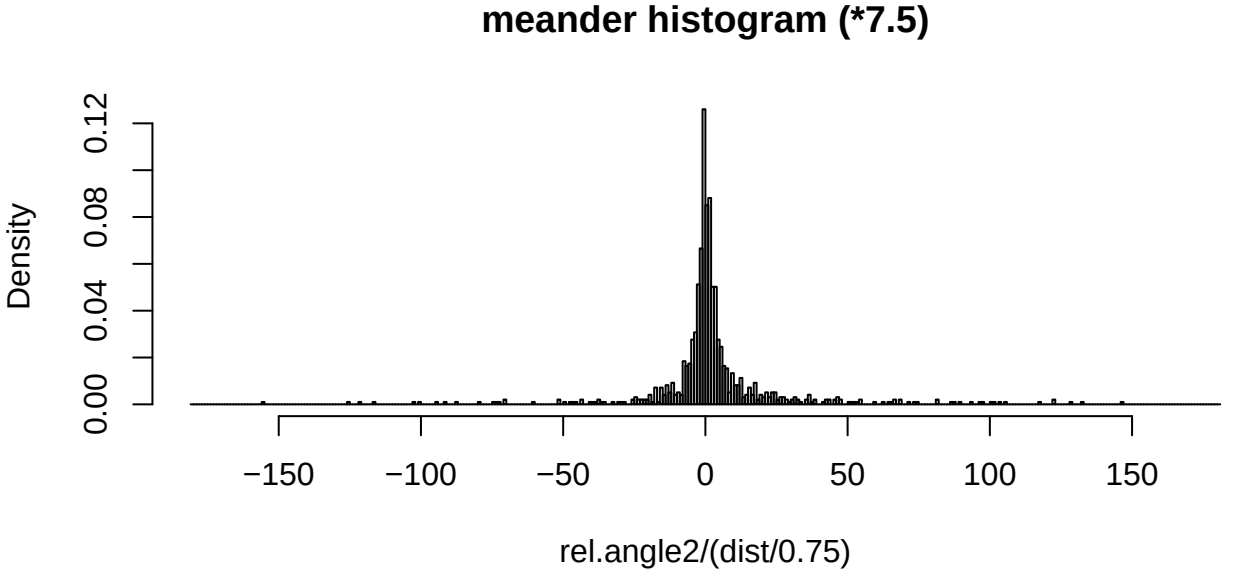

speed average per sec: 135_CSJC
Speed [mm/s]
0
10
20
30
500
600
700
800
900
Experiment Duration [s]

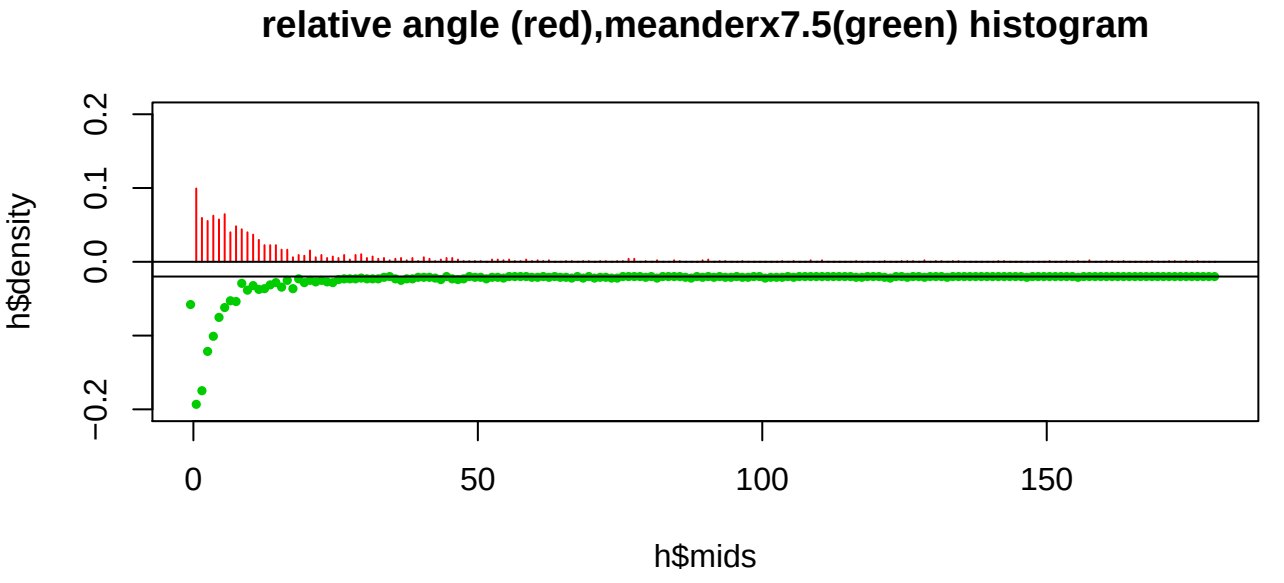

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

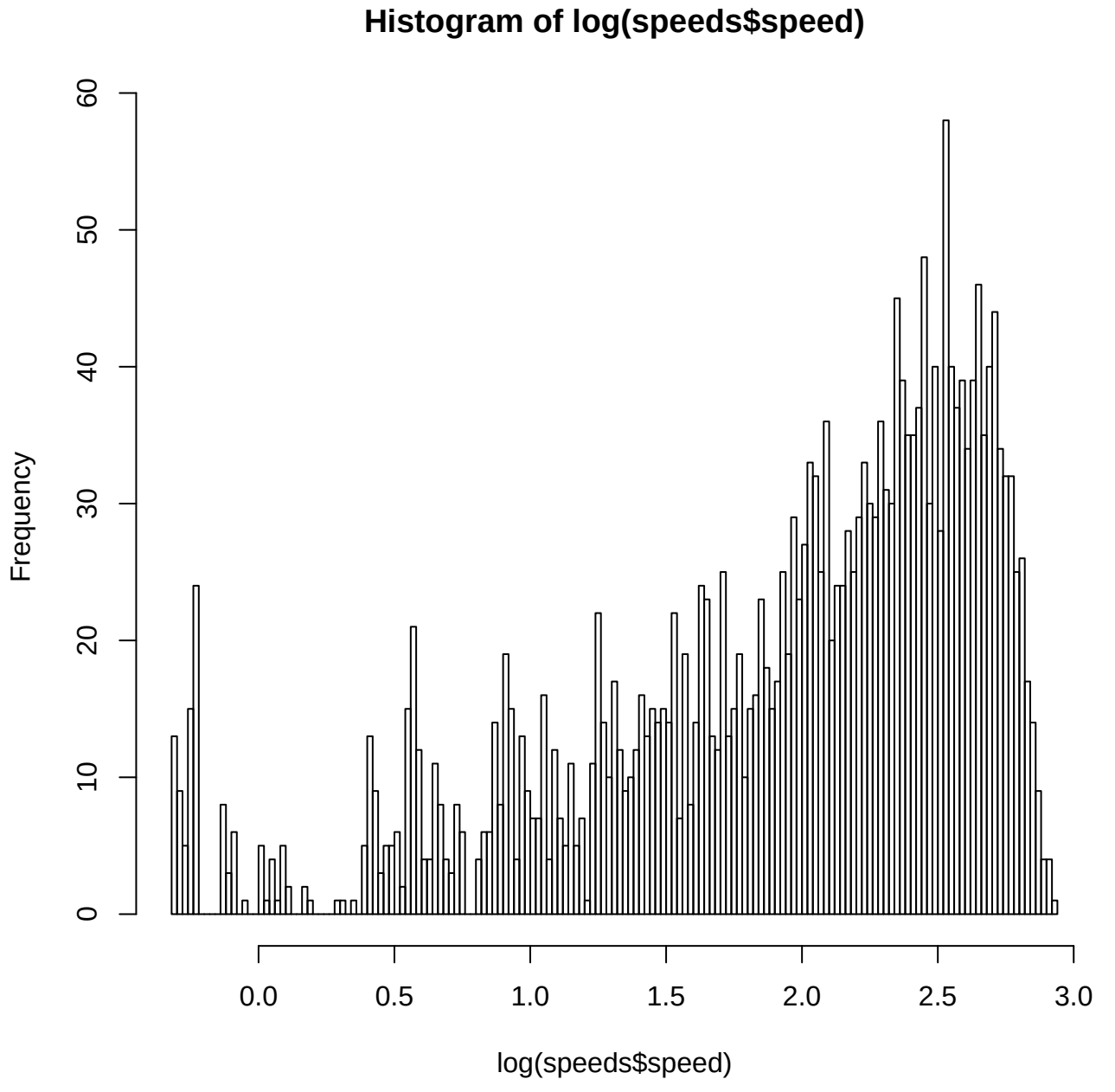

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

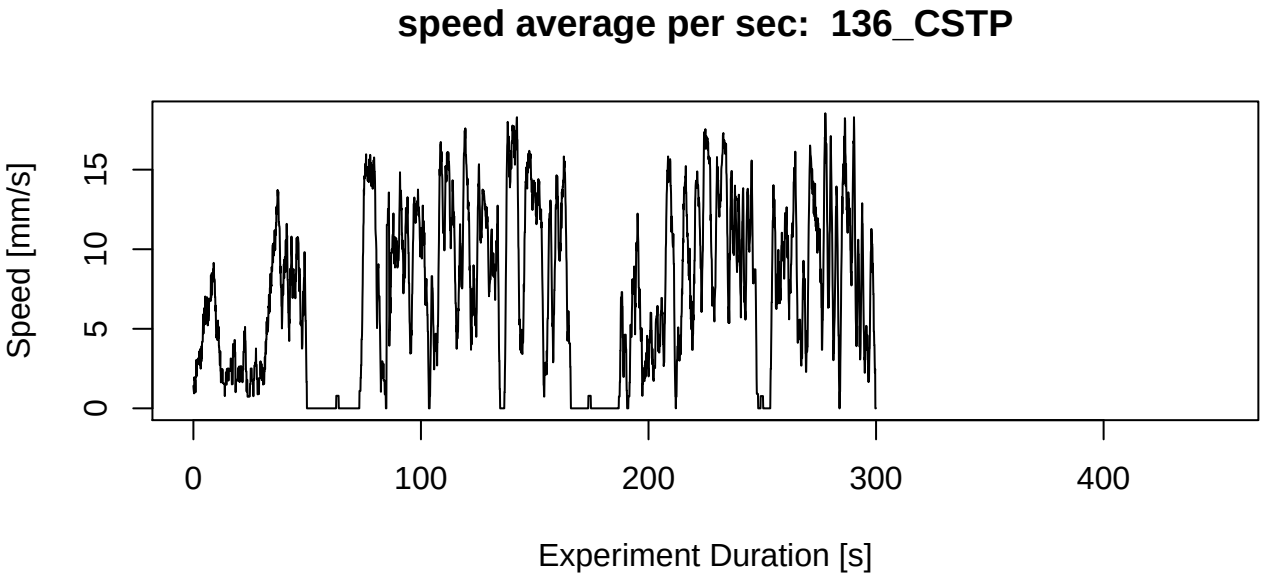

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

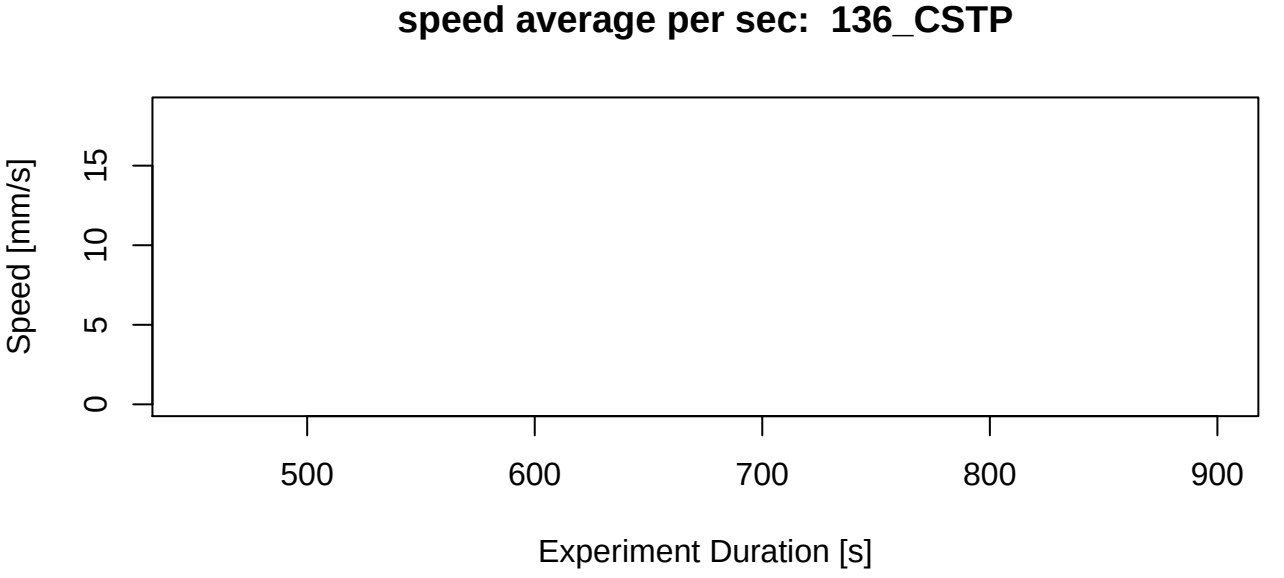

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

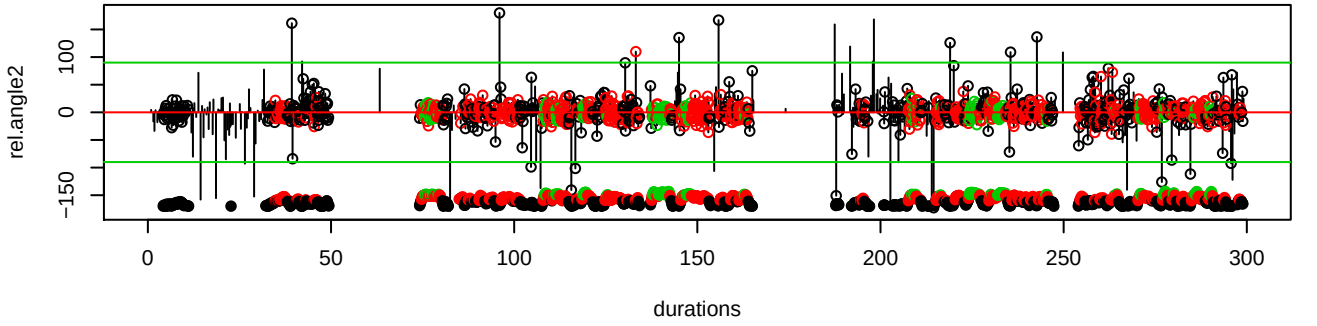

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

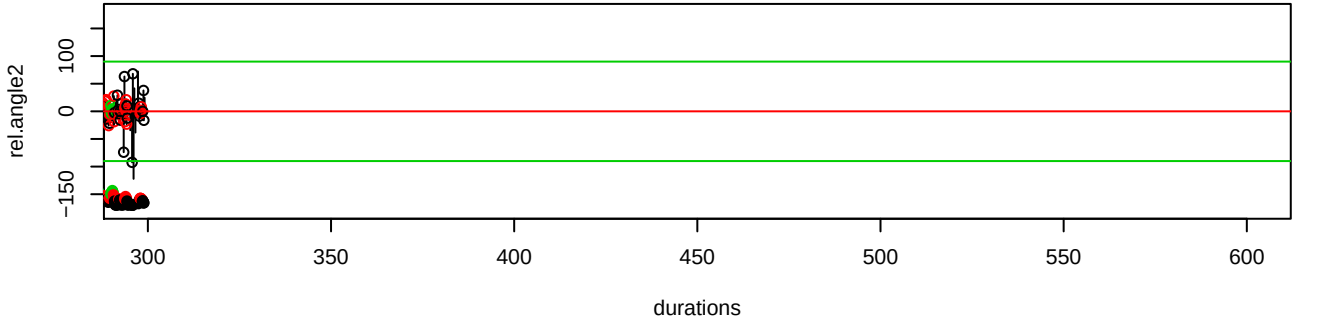

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

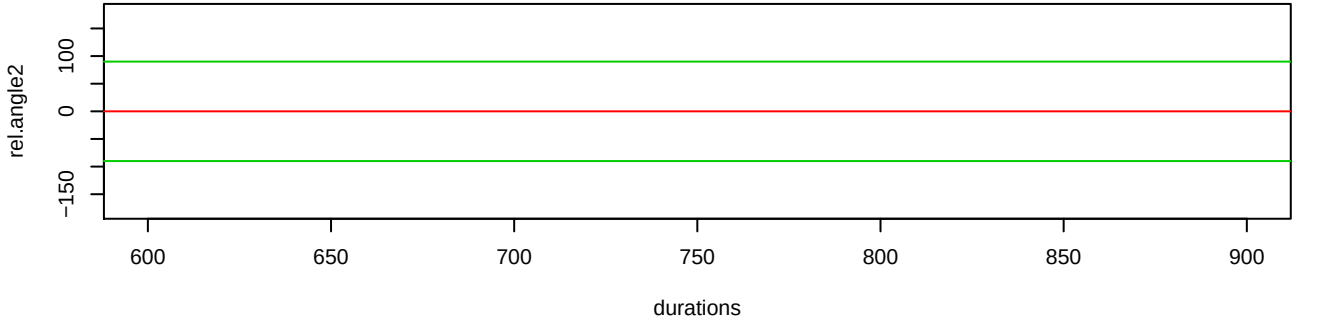

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

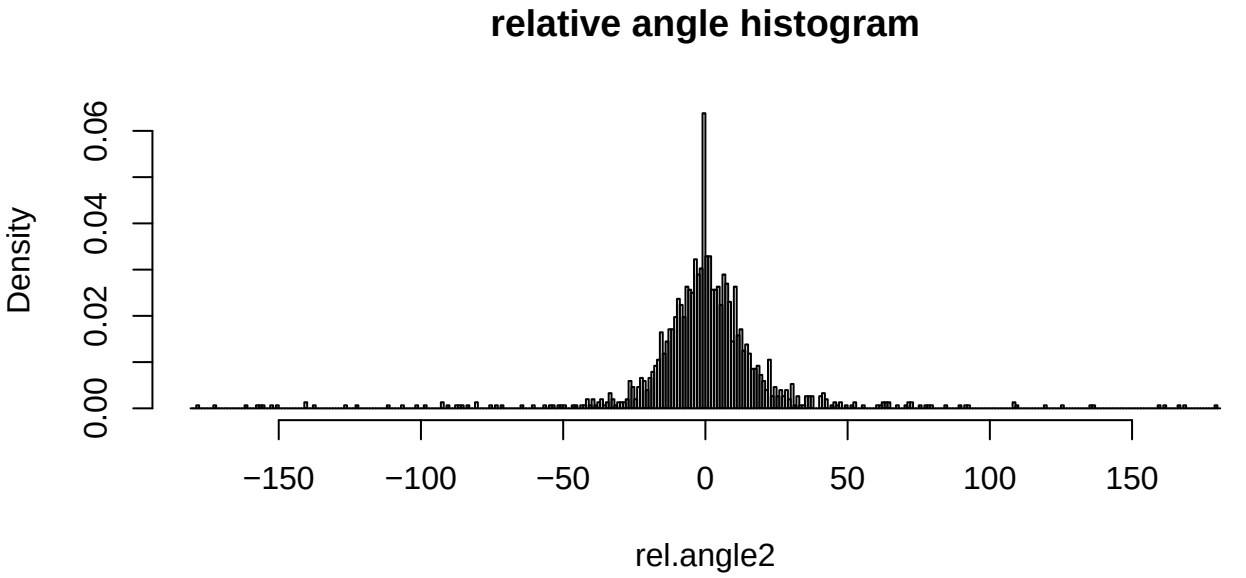

speed average per sec: 136_CSTP
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

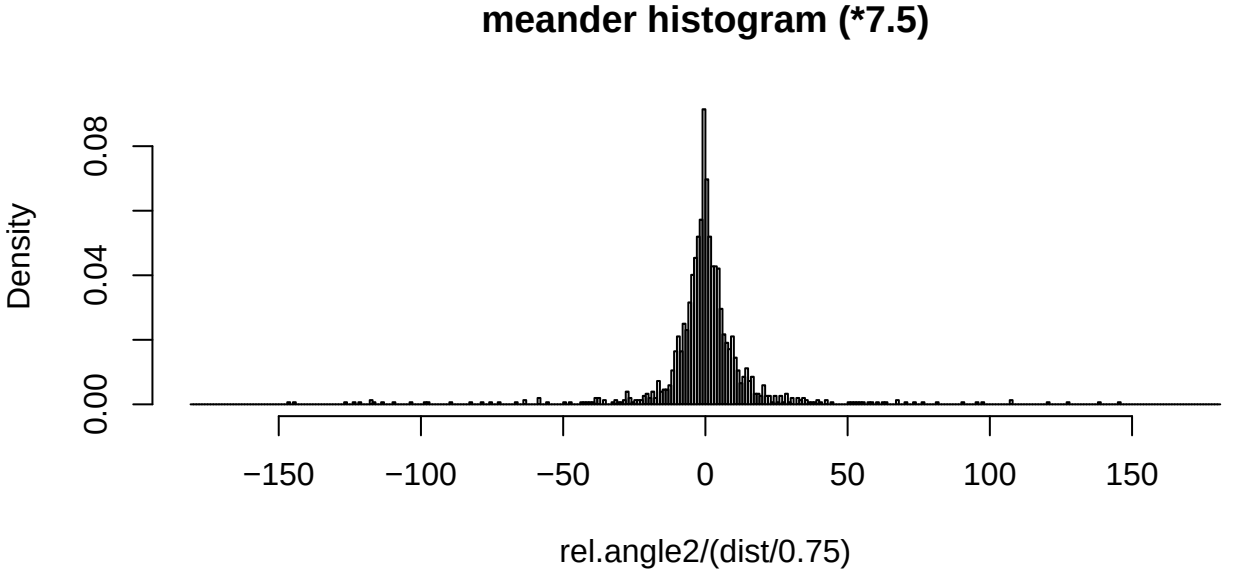

speed average per sec: 136_CSTP
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

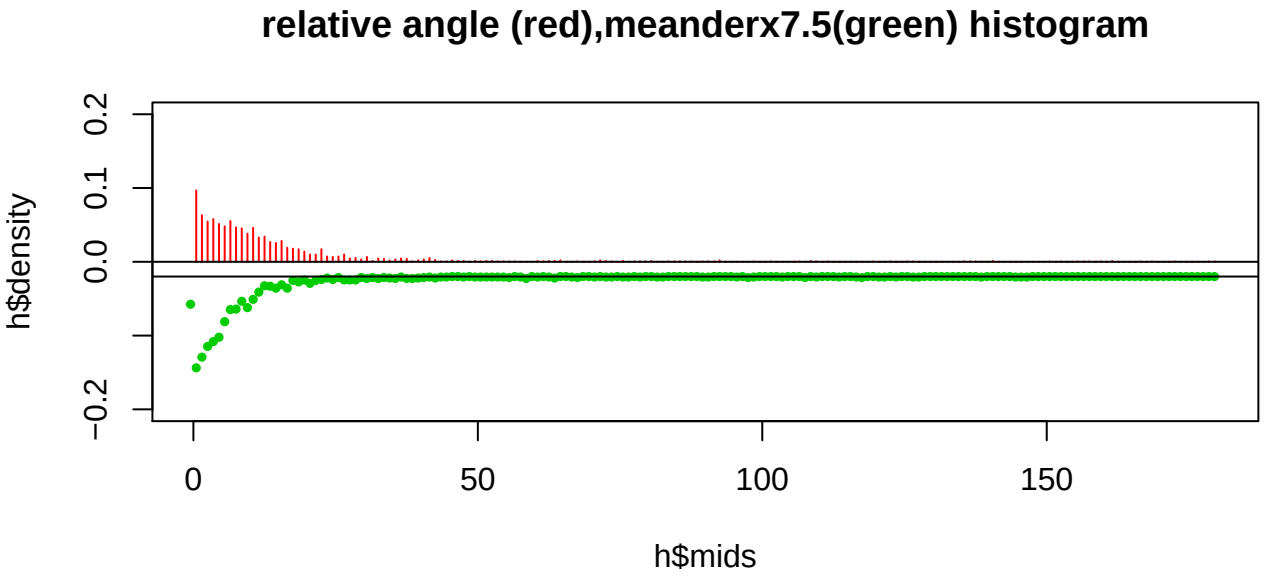

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

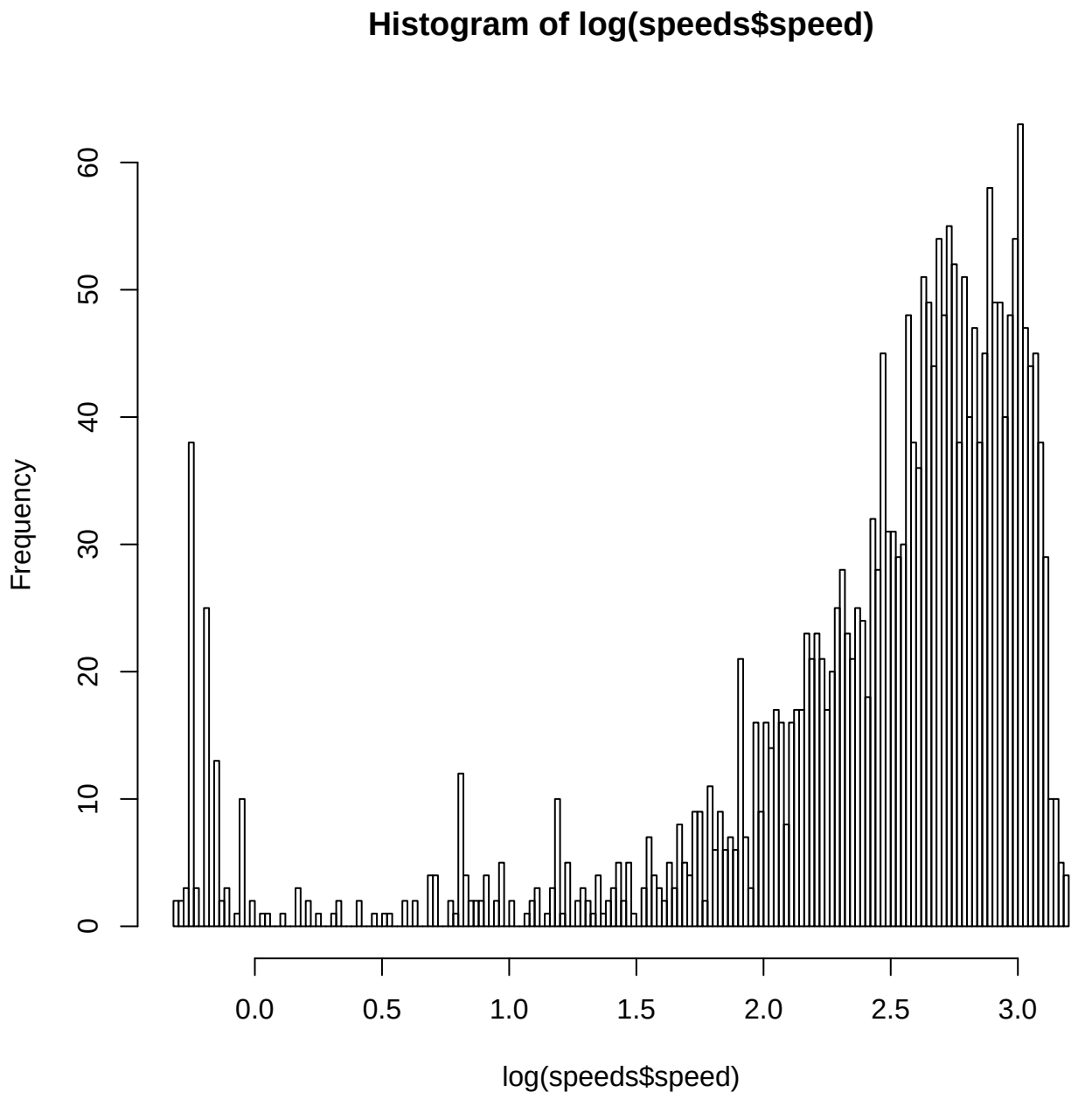

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

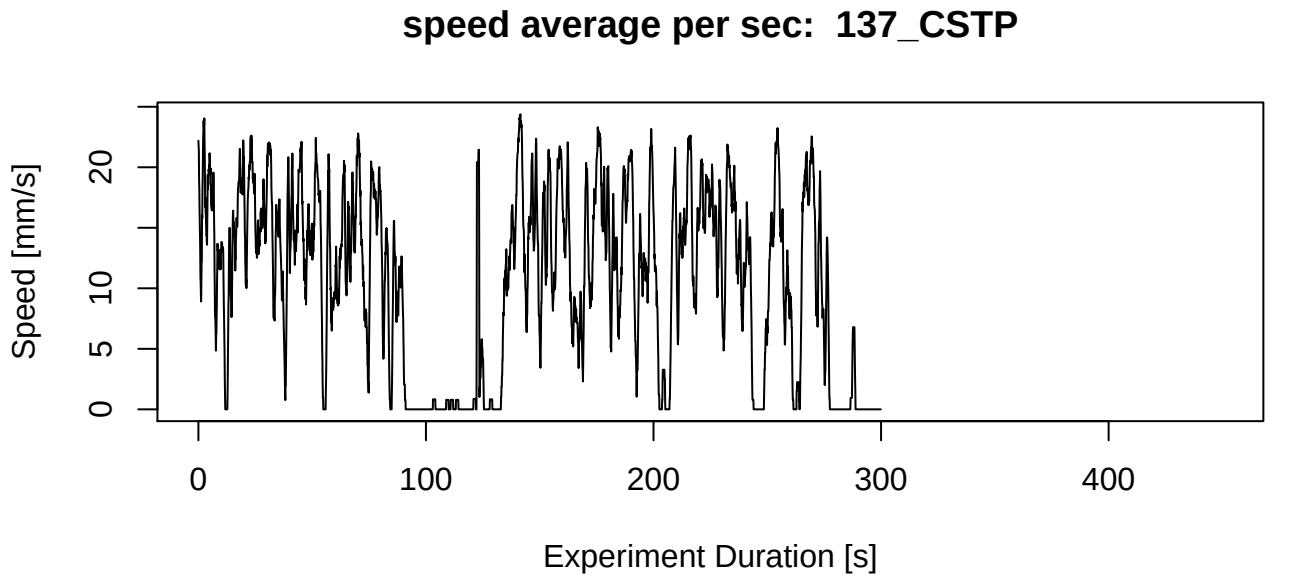

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

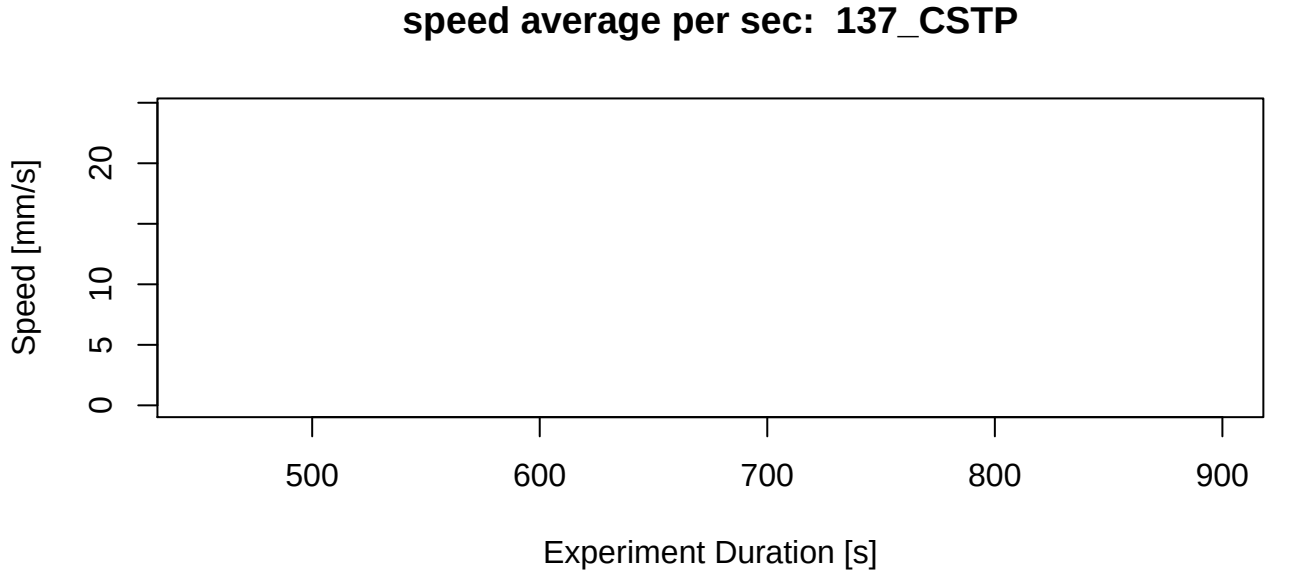

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

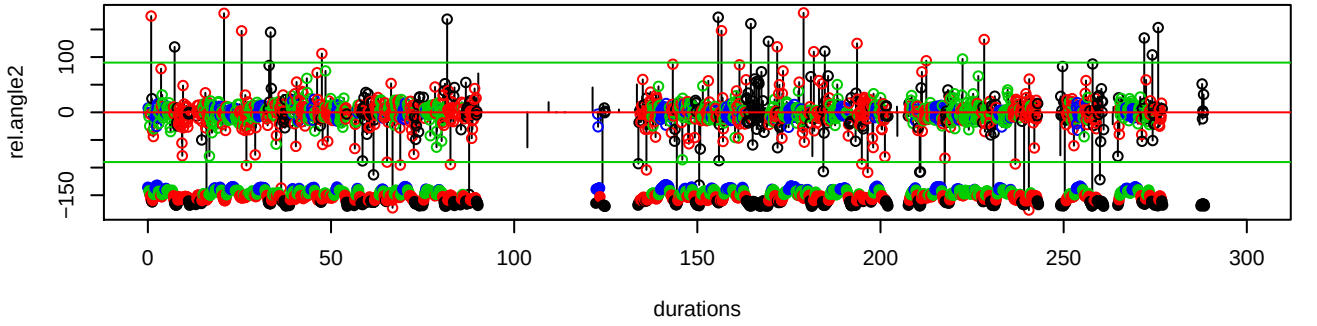

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

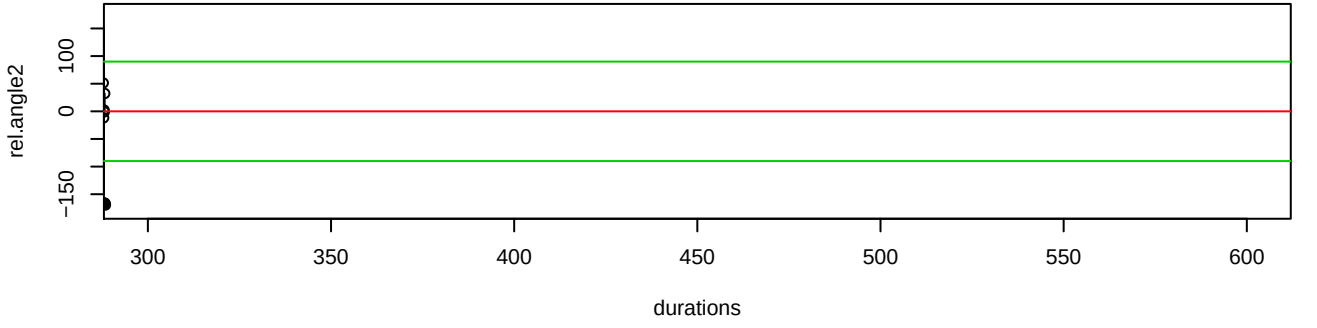

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

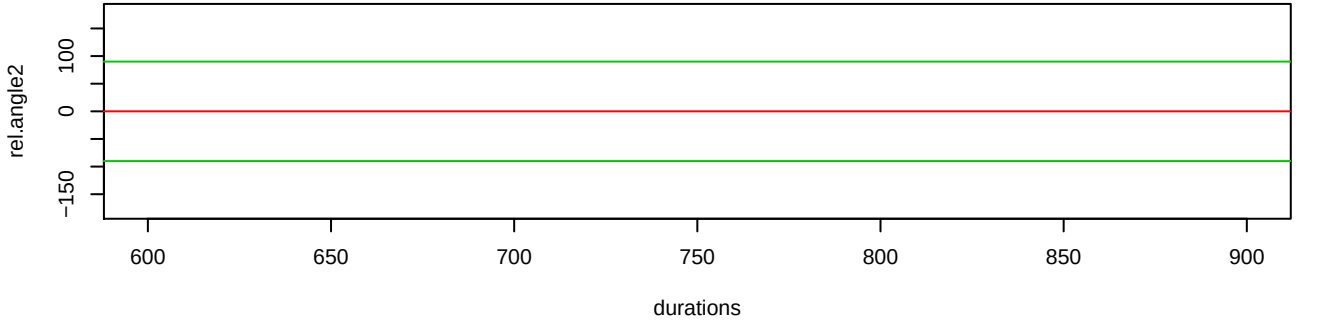

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

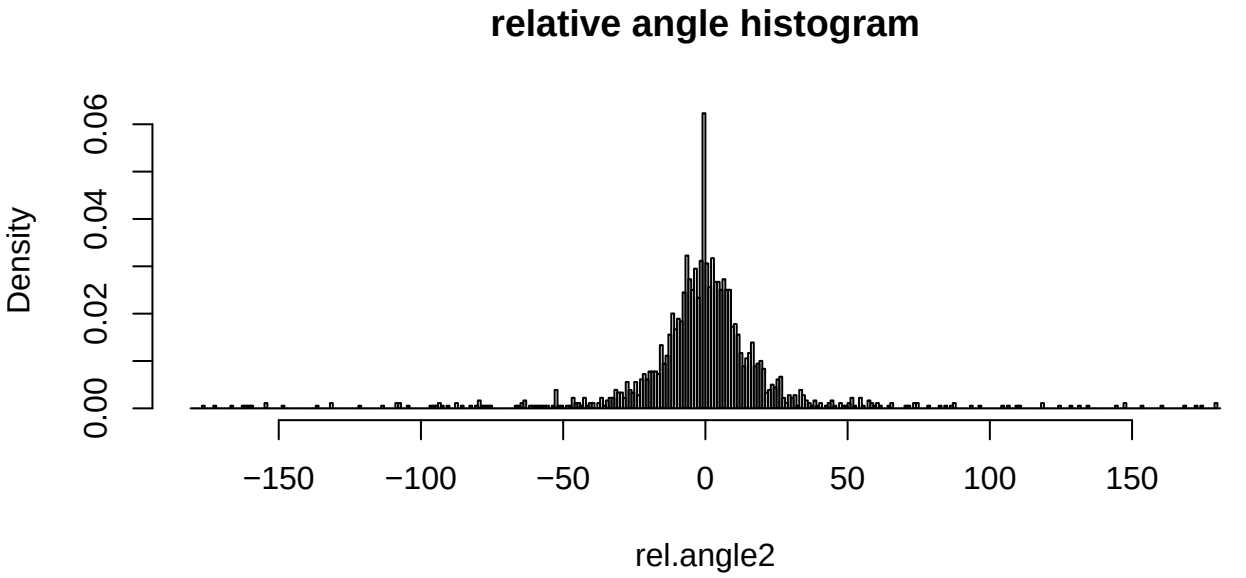

speed average per sec: 137_CSTP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

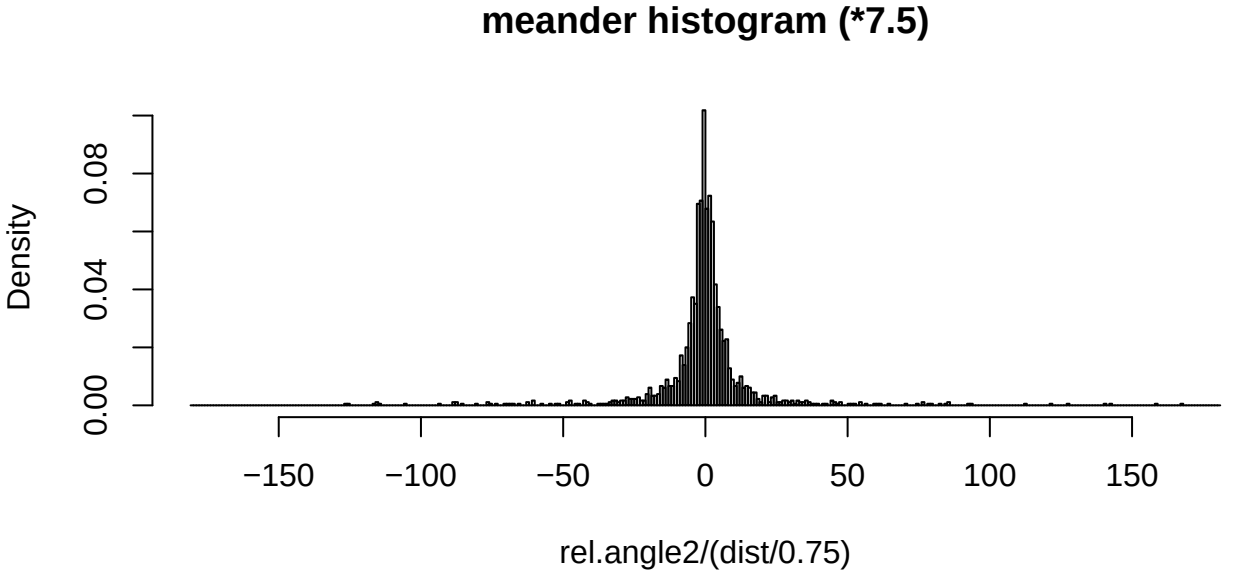

speed average per sec: 137_CSTP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

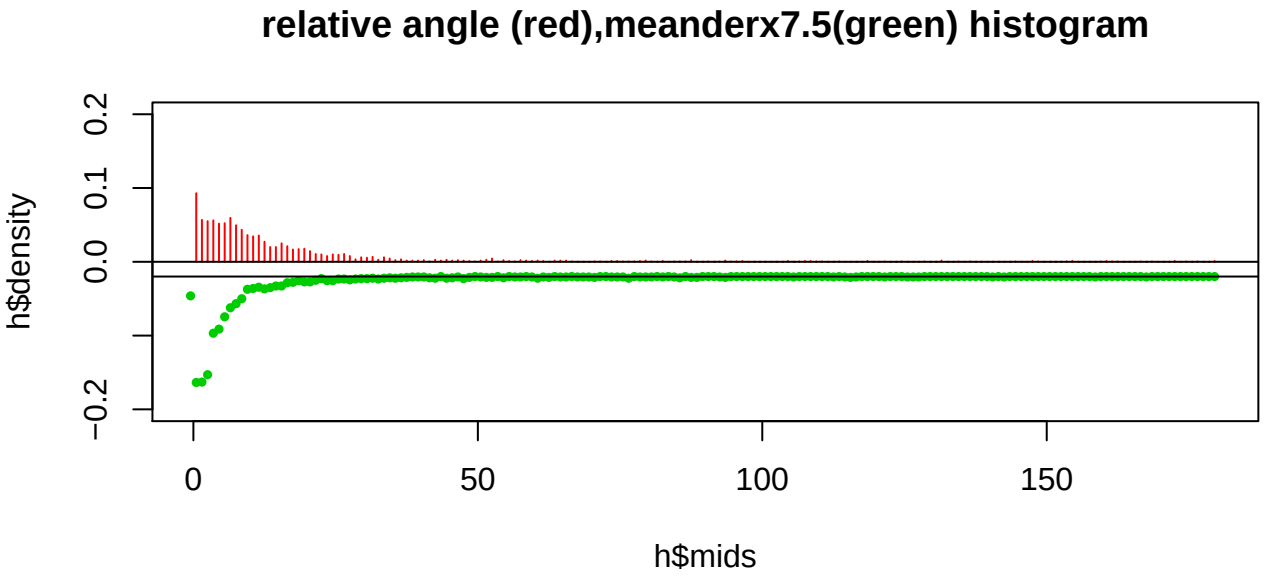

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

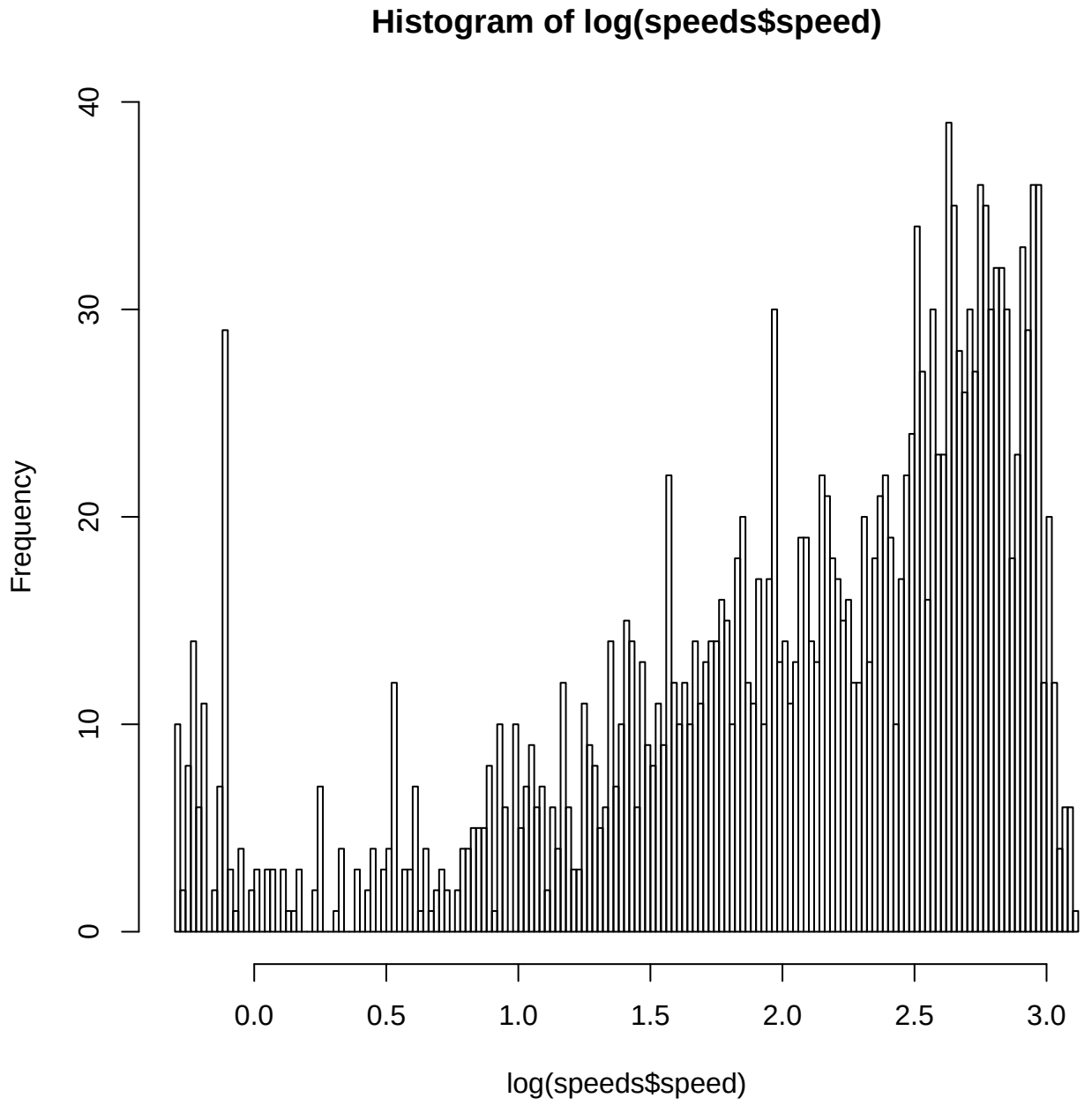

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

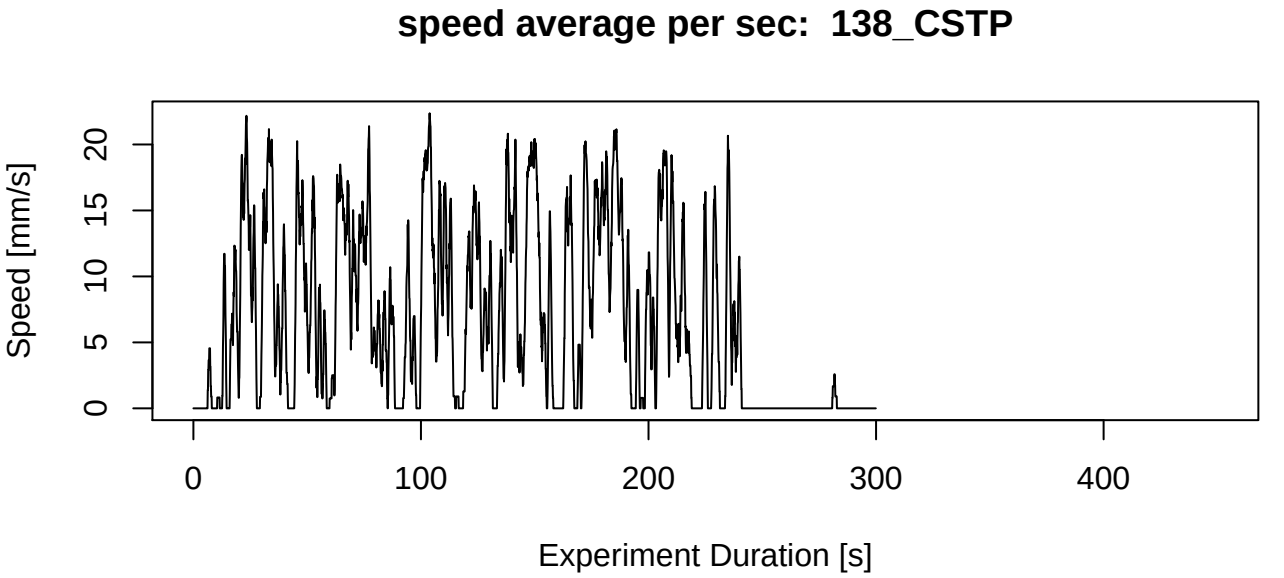

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

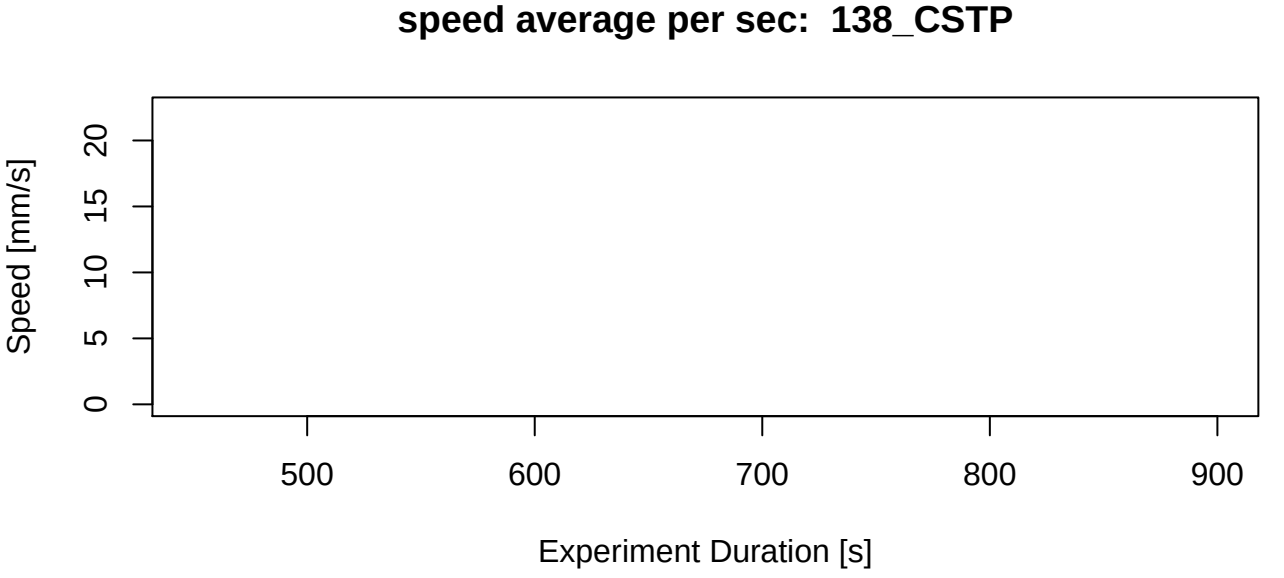

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

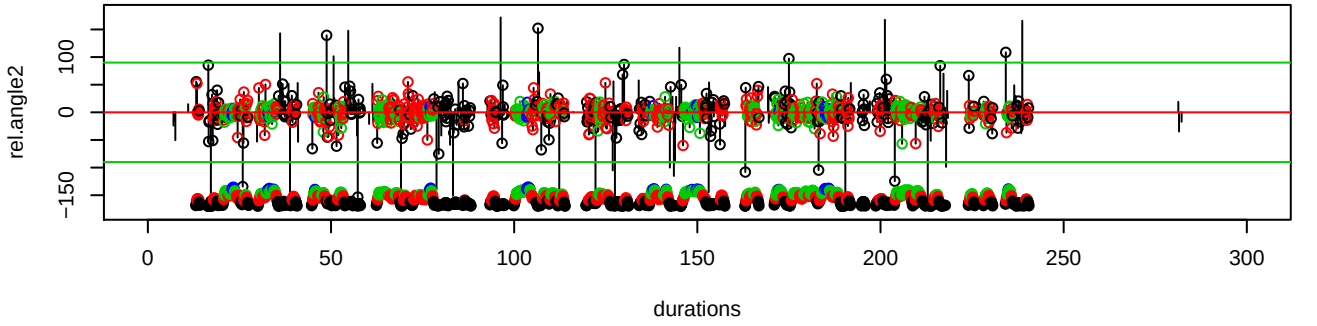

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

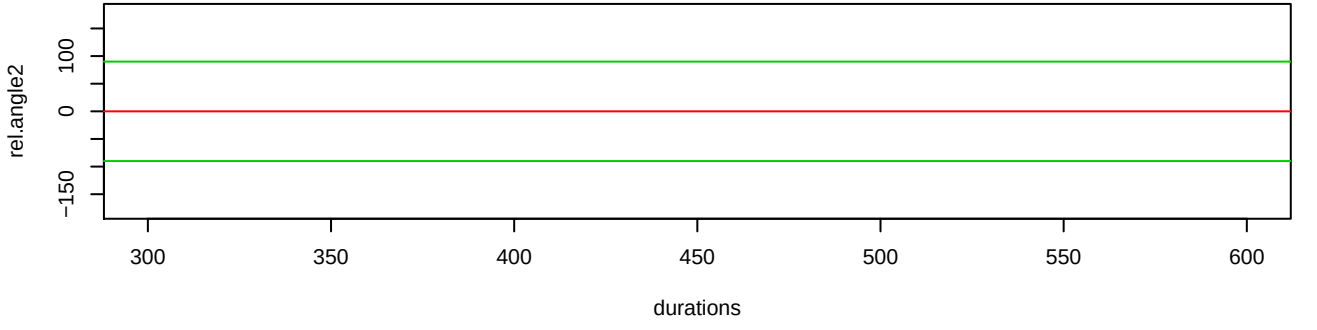

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

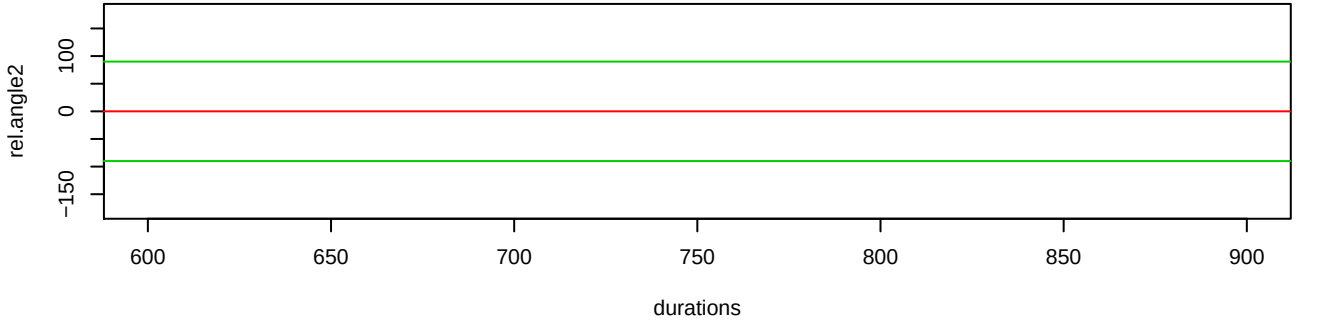

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

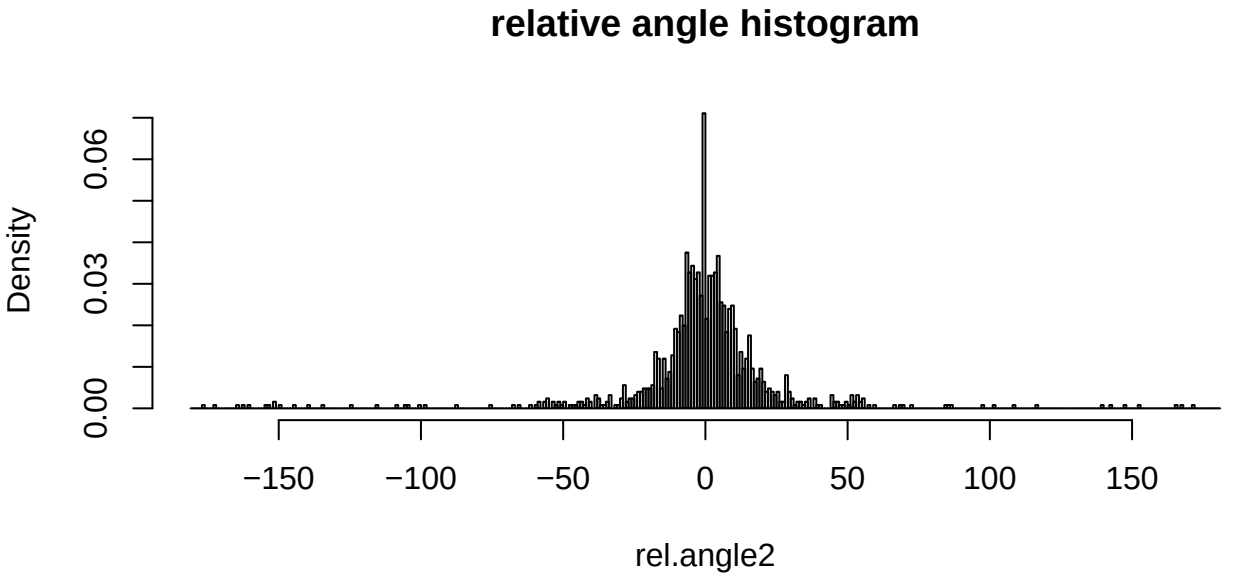

speed average per sec: 138_CSTP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

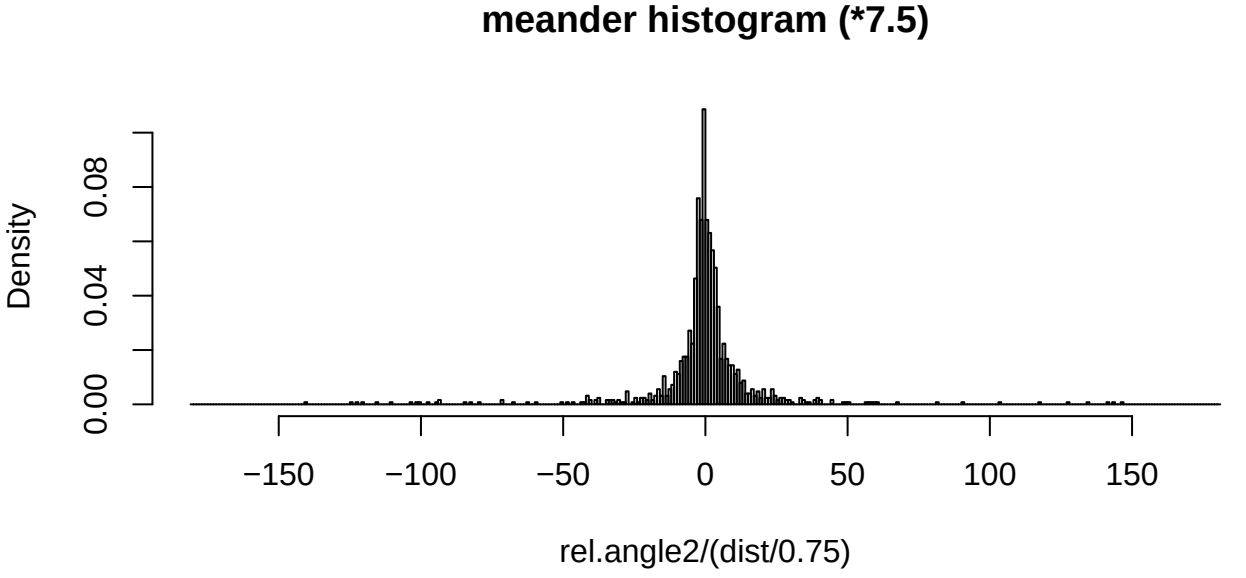

speed average per sec: 138_CSTP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

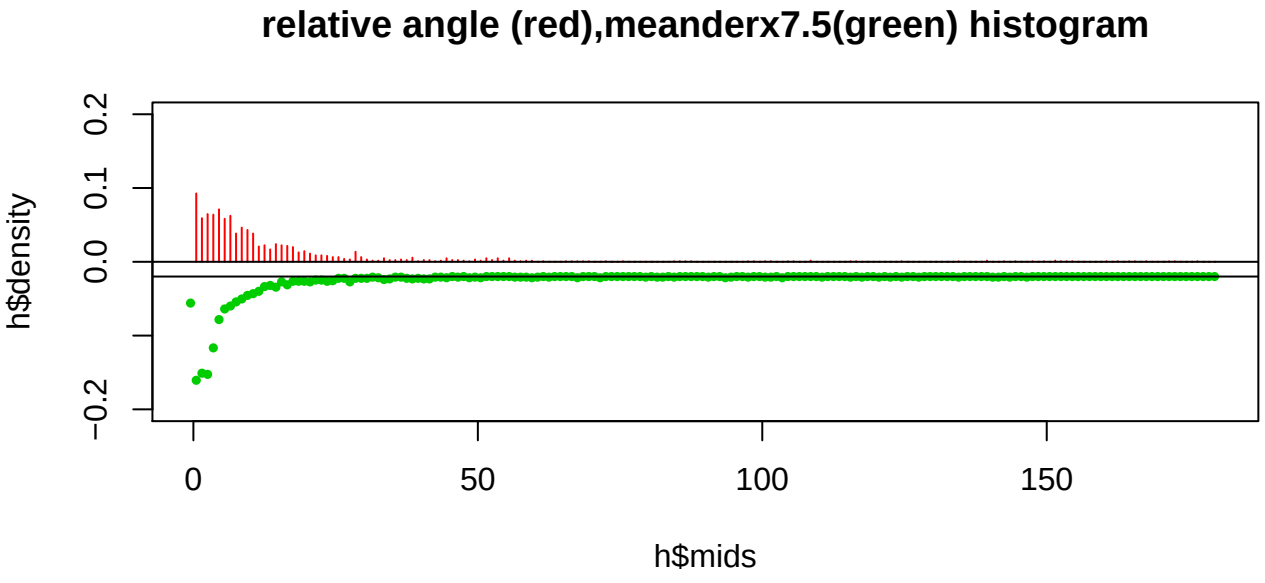

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

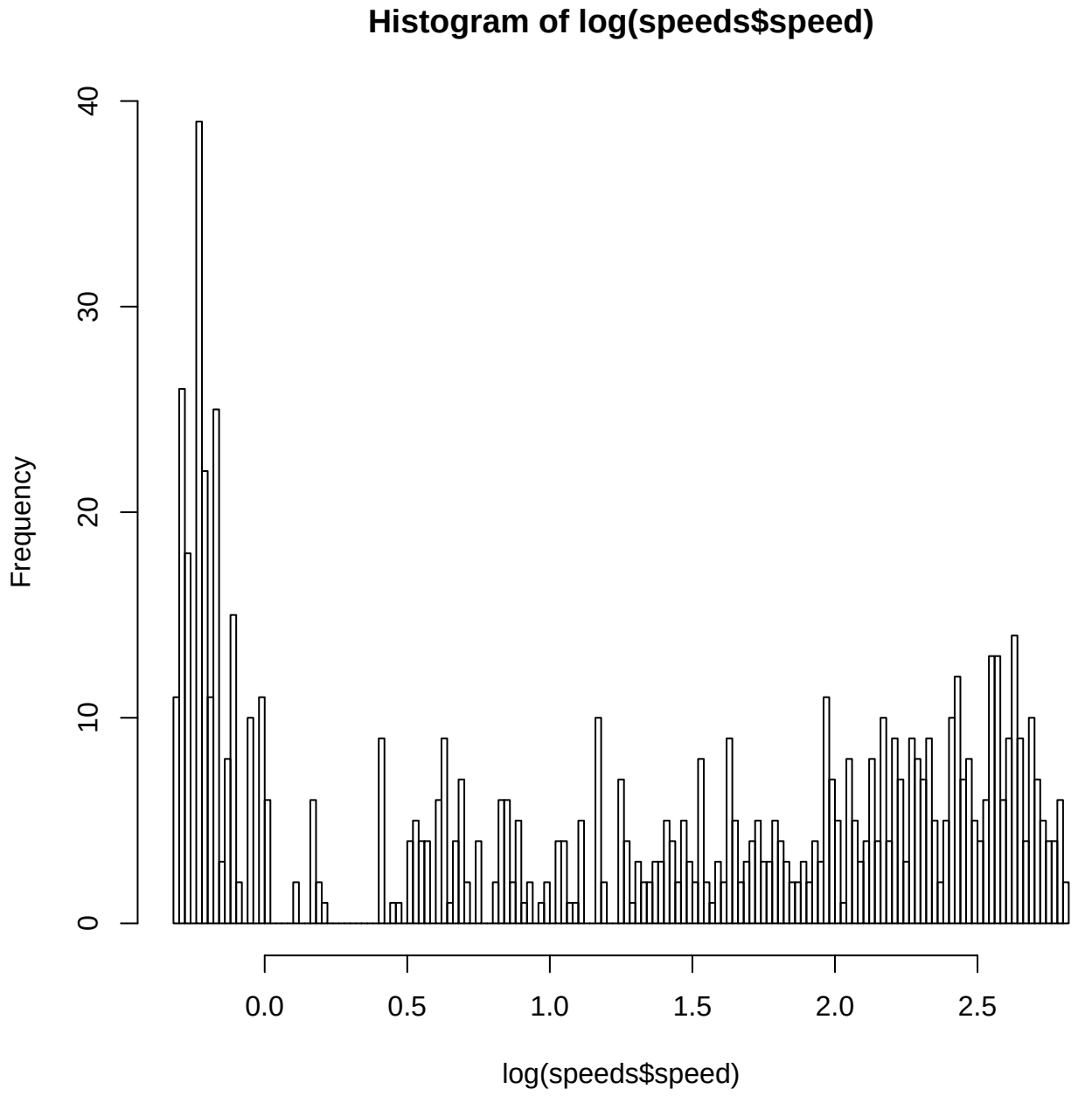

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

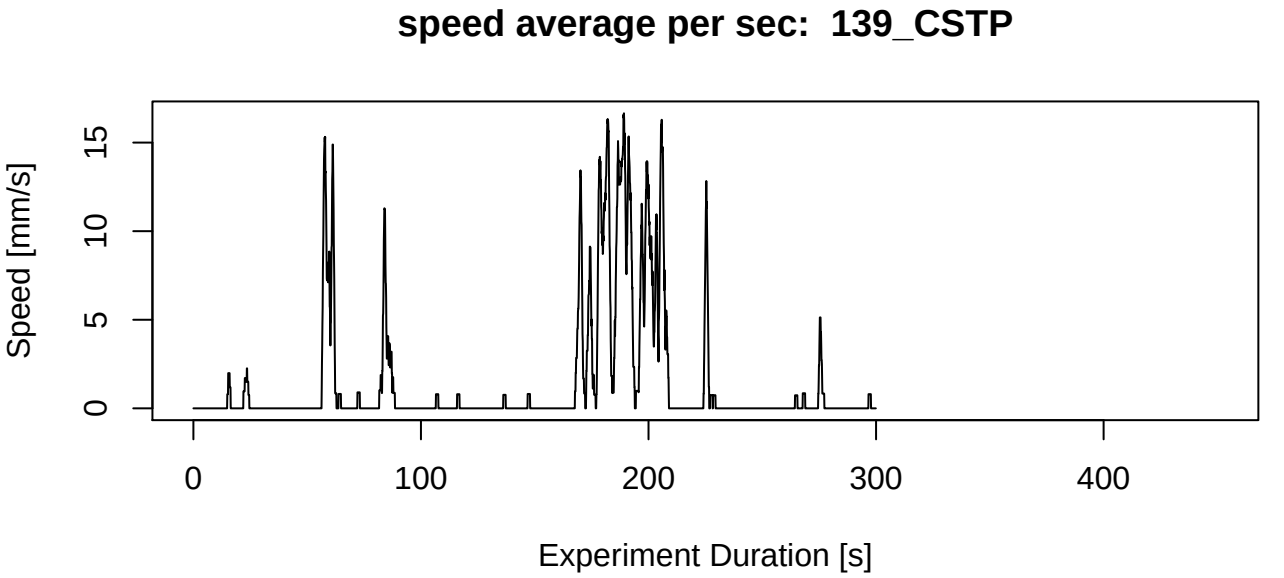

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

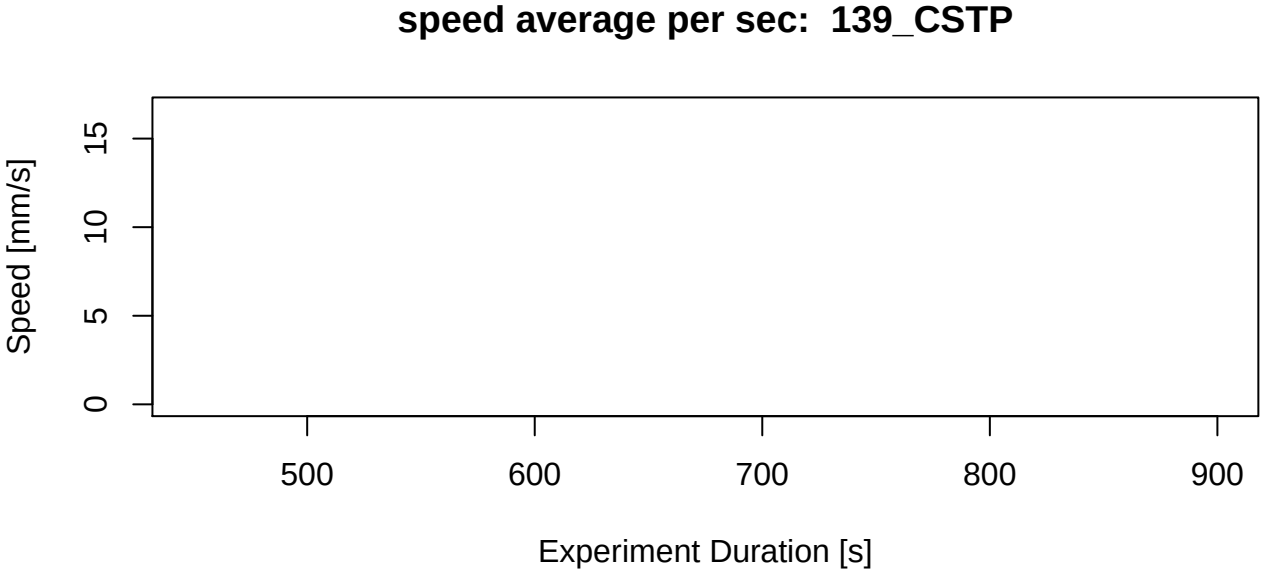

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

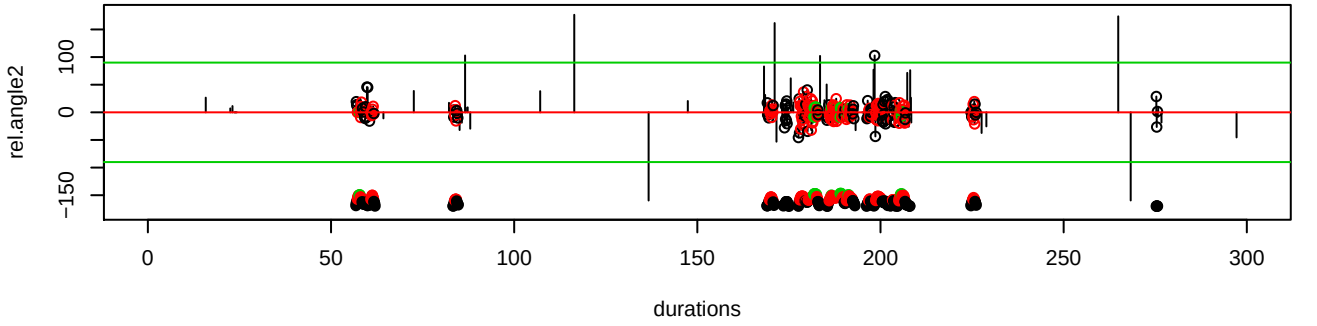

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

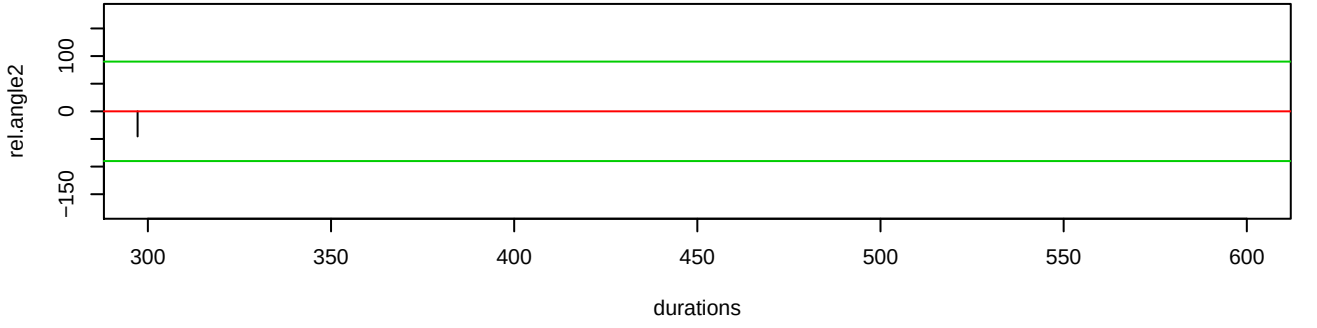

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

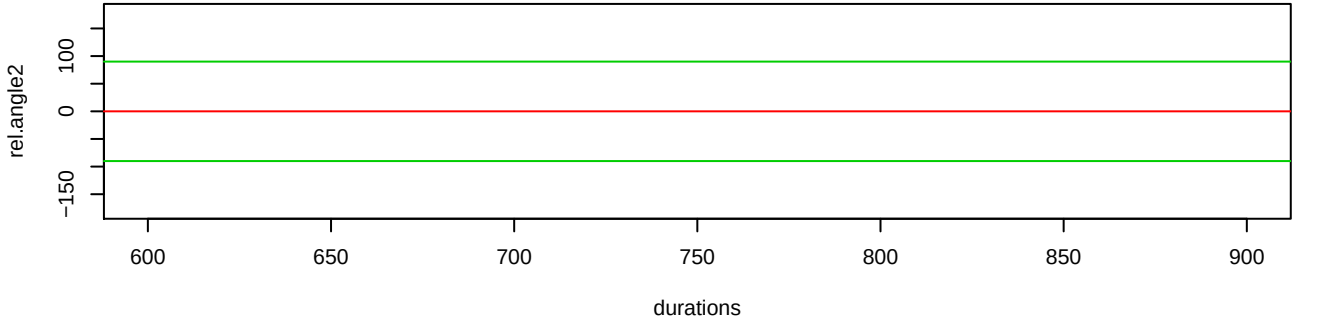

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

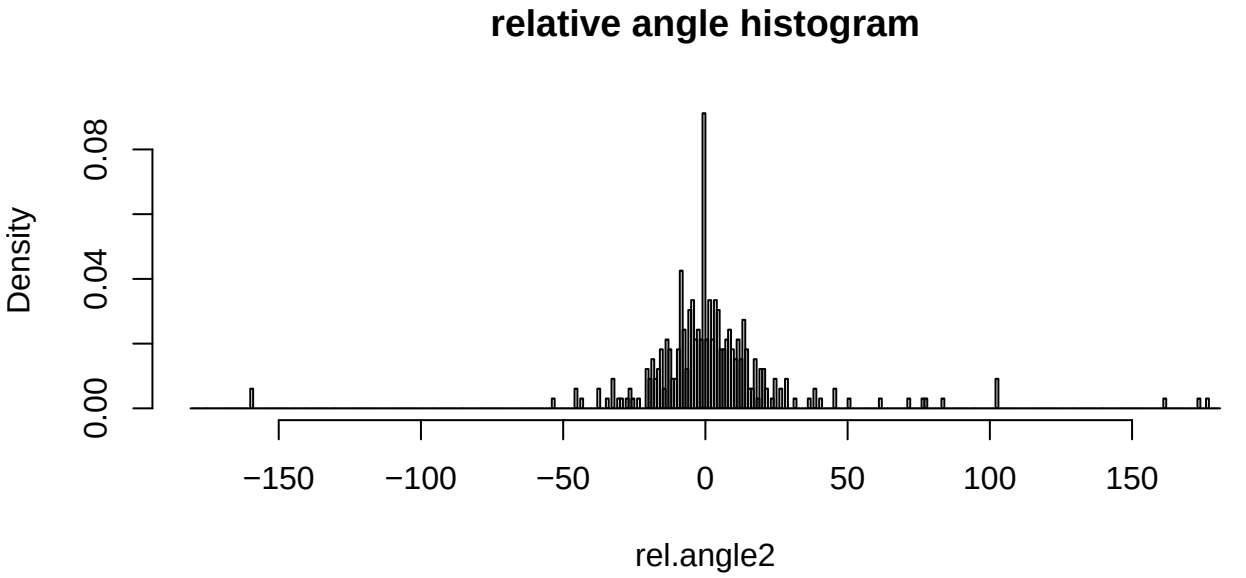

speed average per sec: 139_CSTP
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

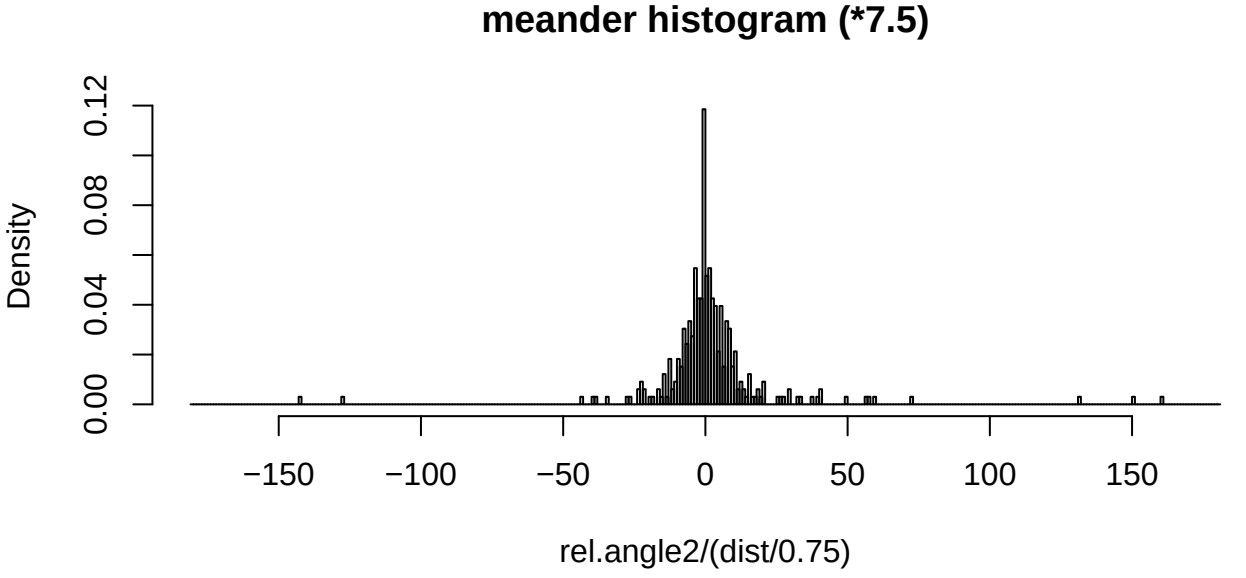

speed average per sec: 139_CSTP
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

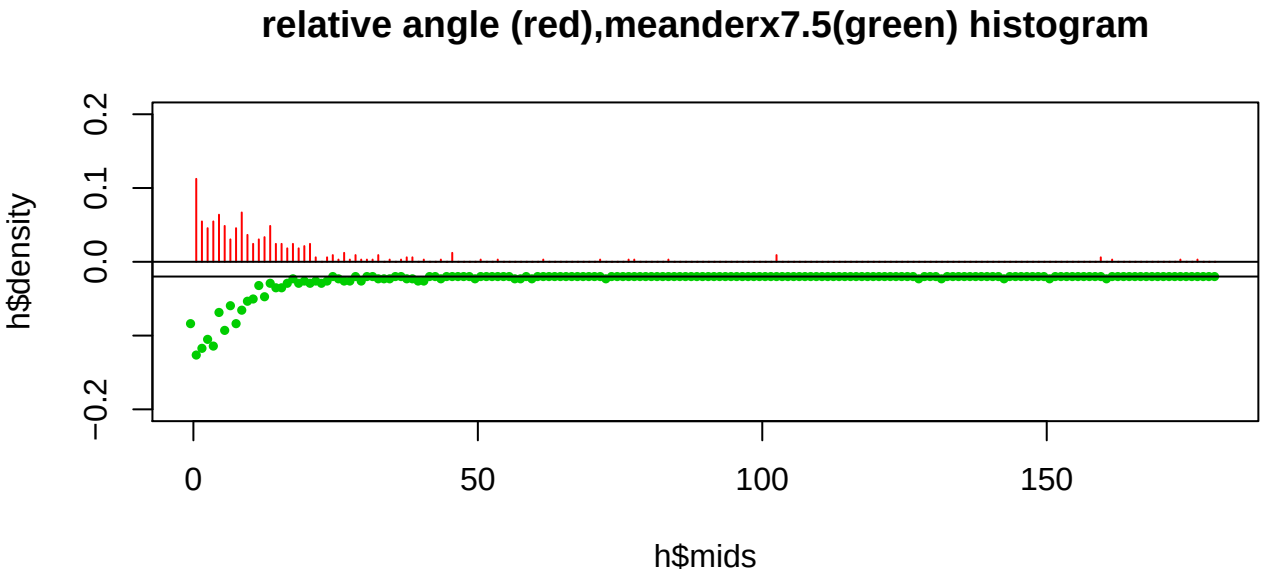

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

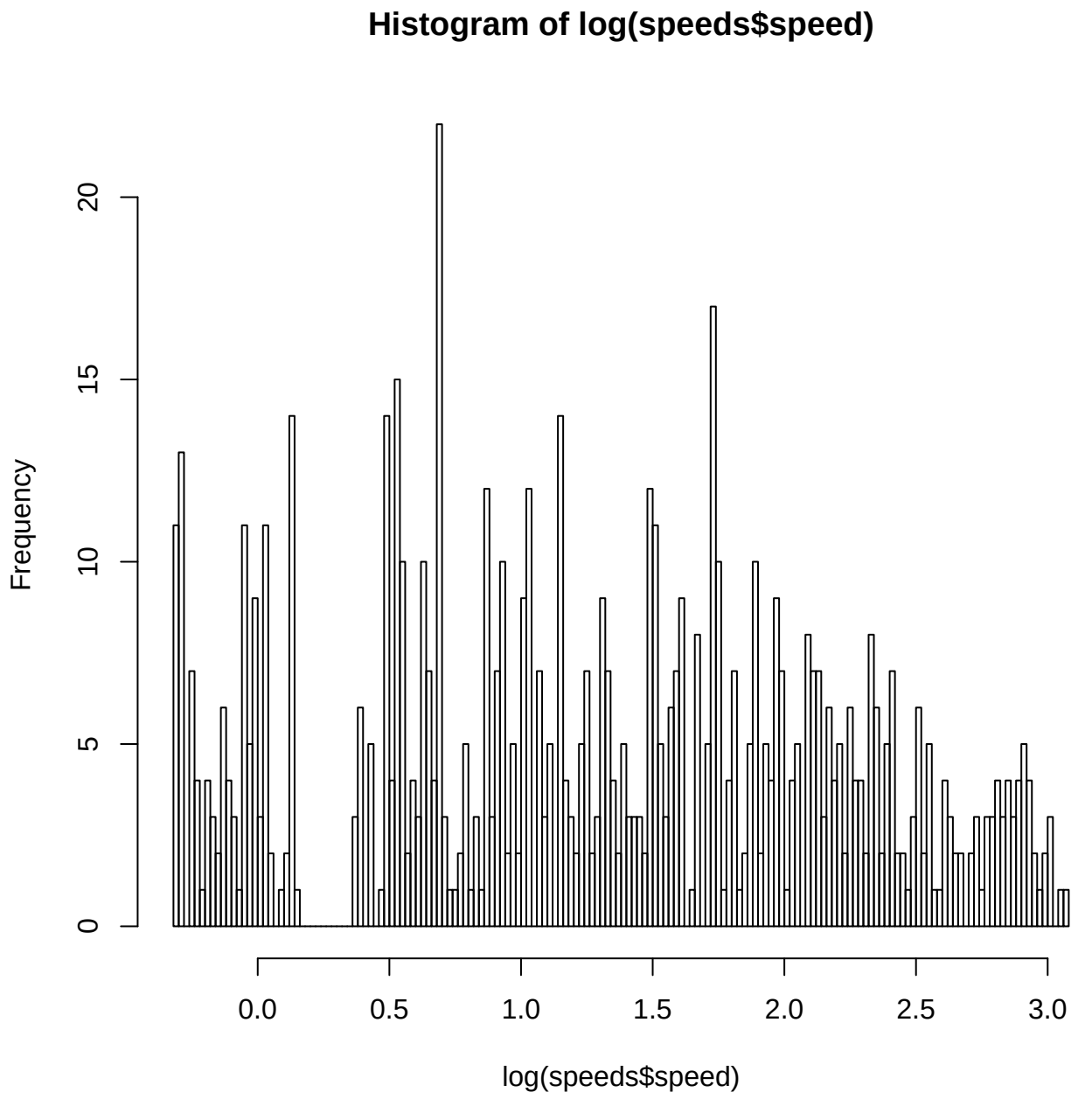

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

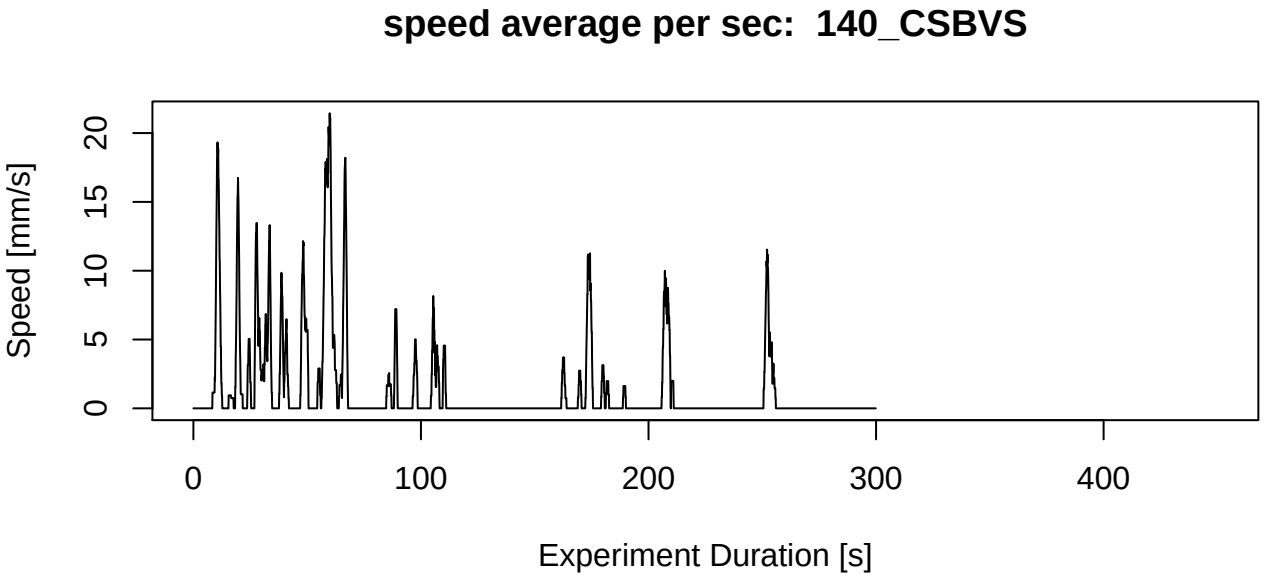

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

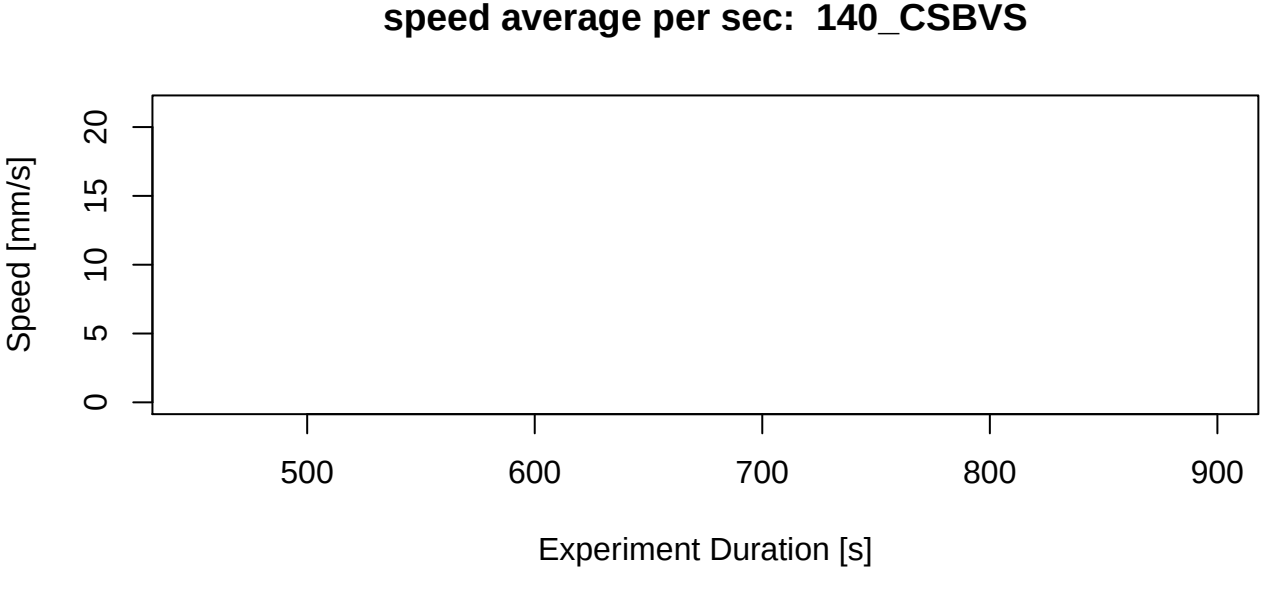

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

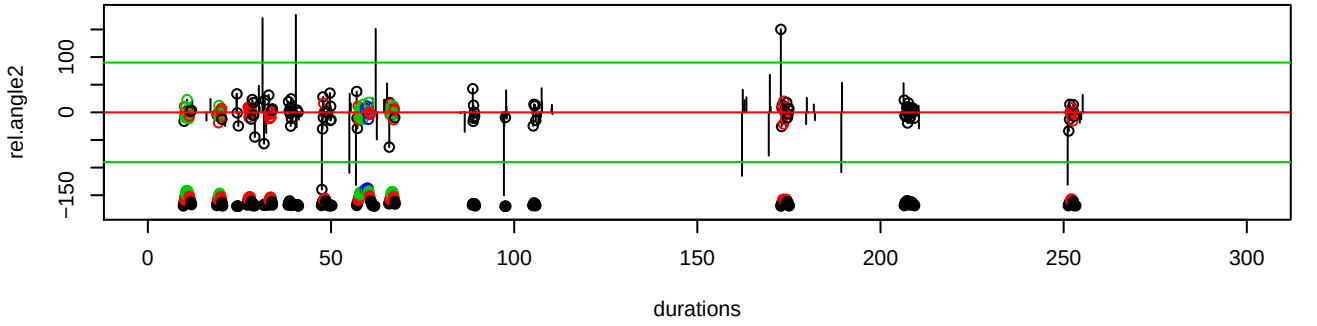

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

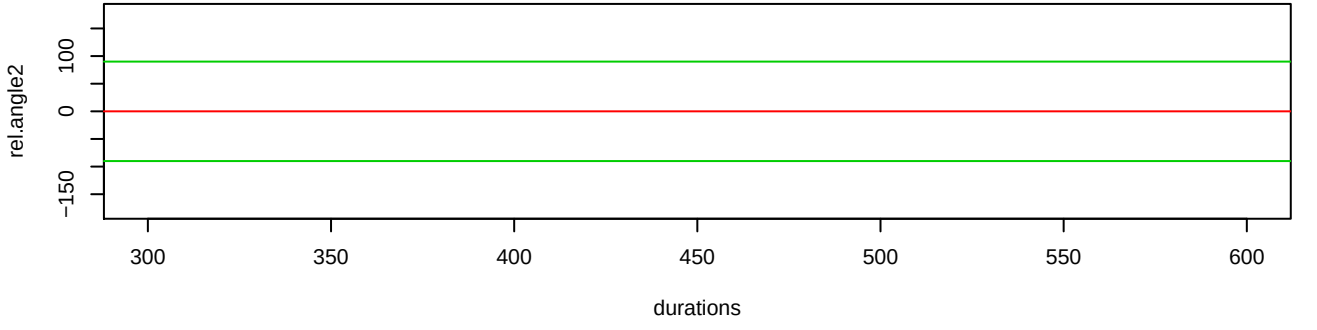

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

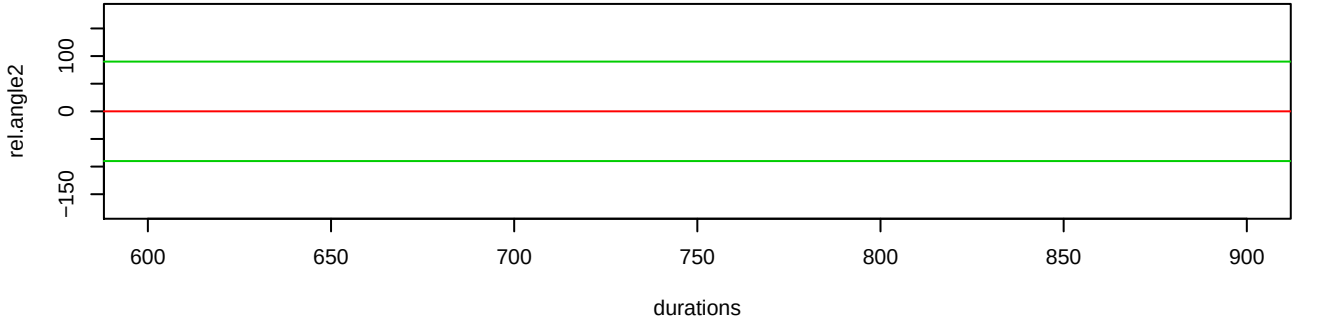

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

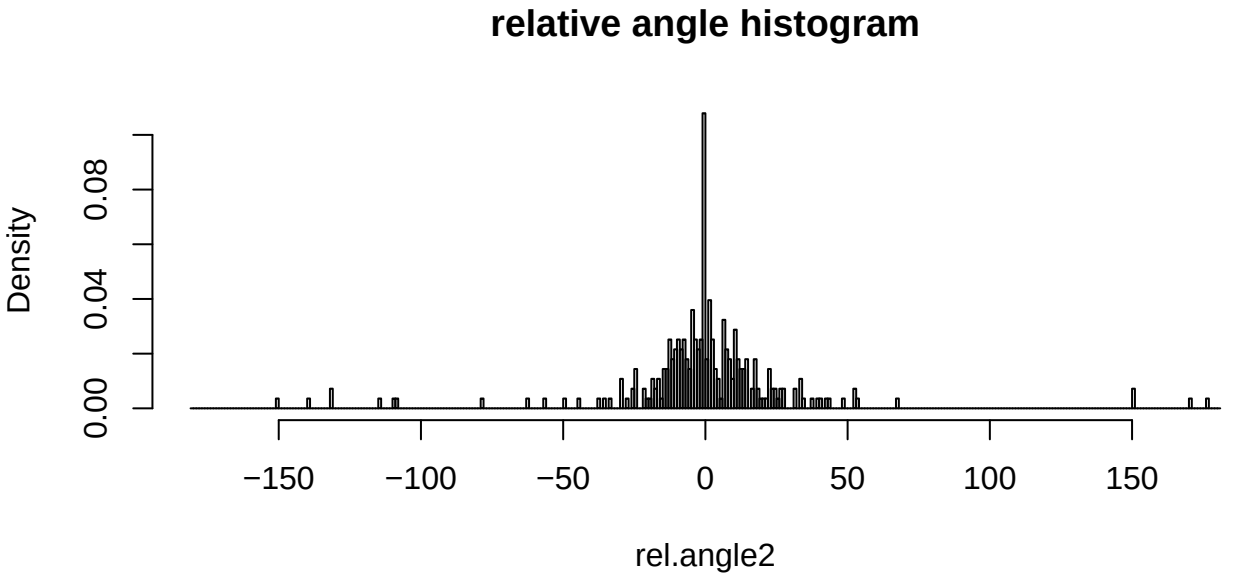

speed average per sec: 140_CSBVS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

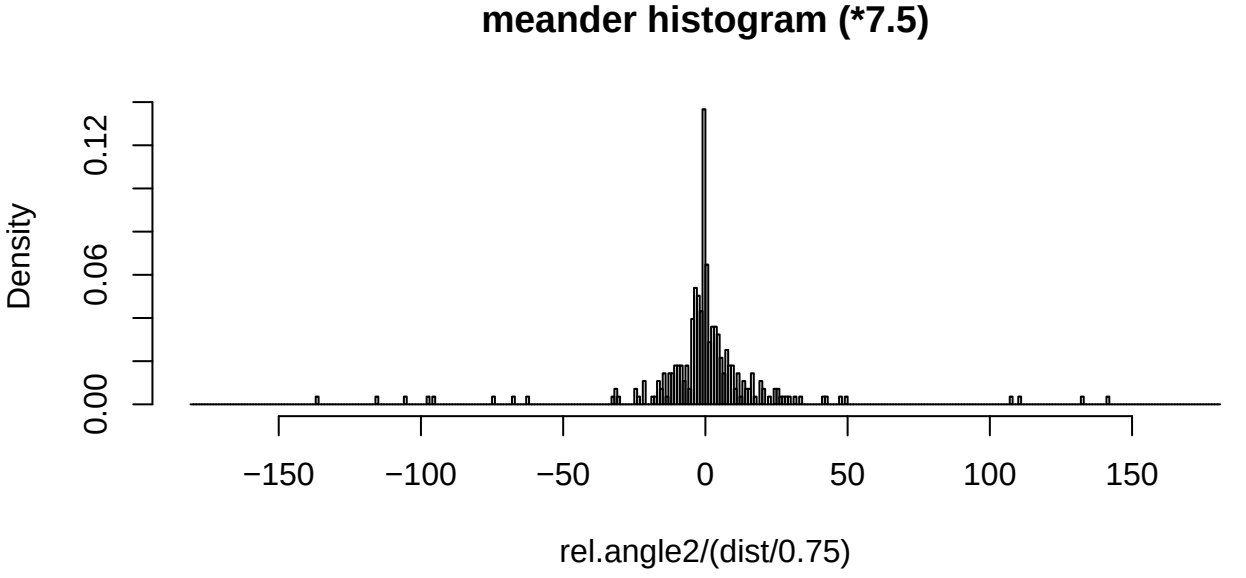

speed average per sec: 140_CSBVS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

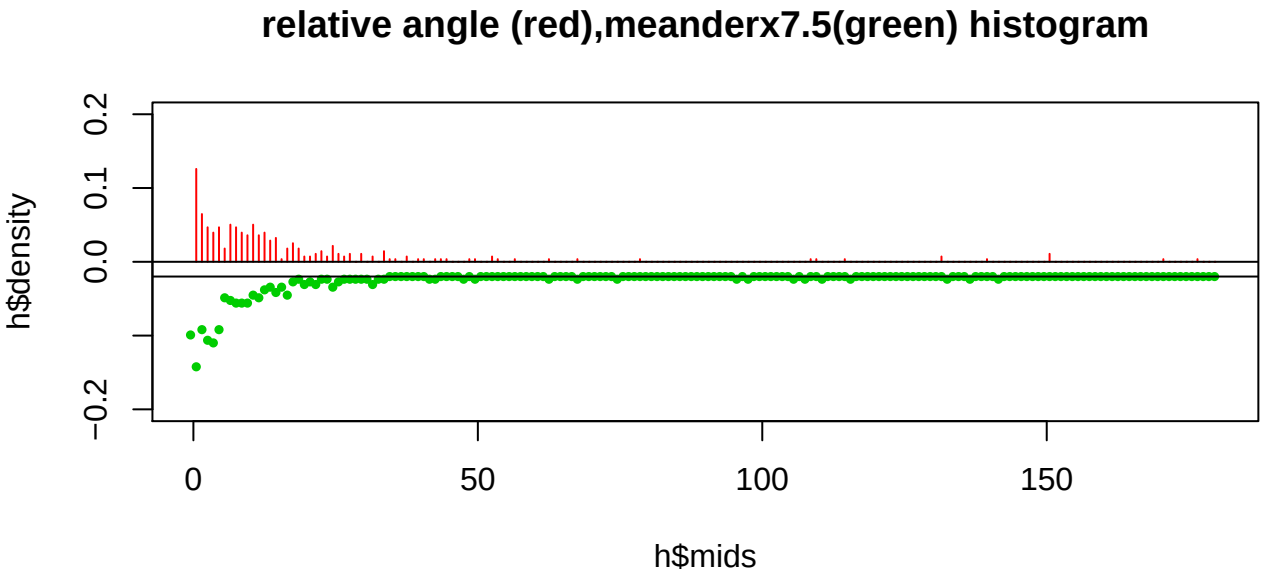

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

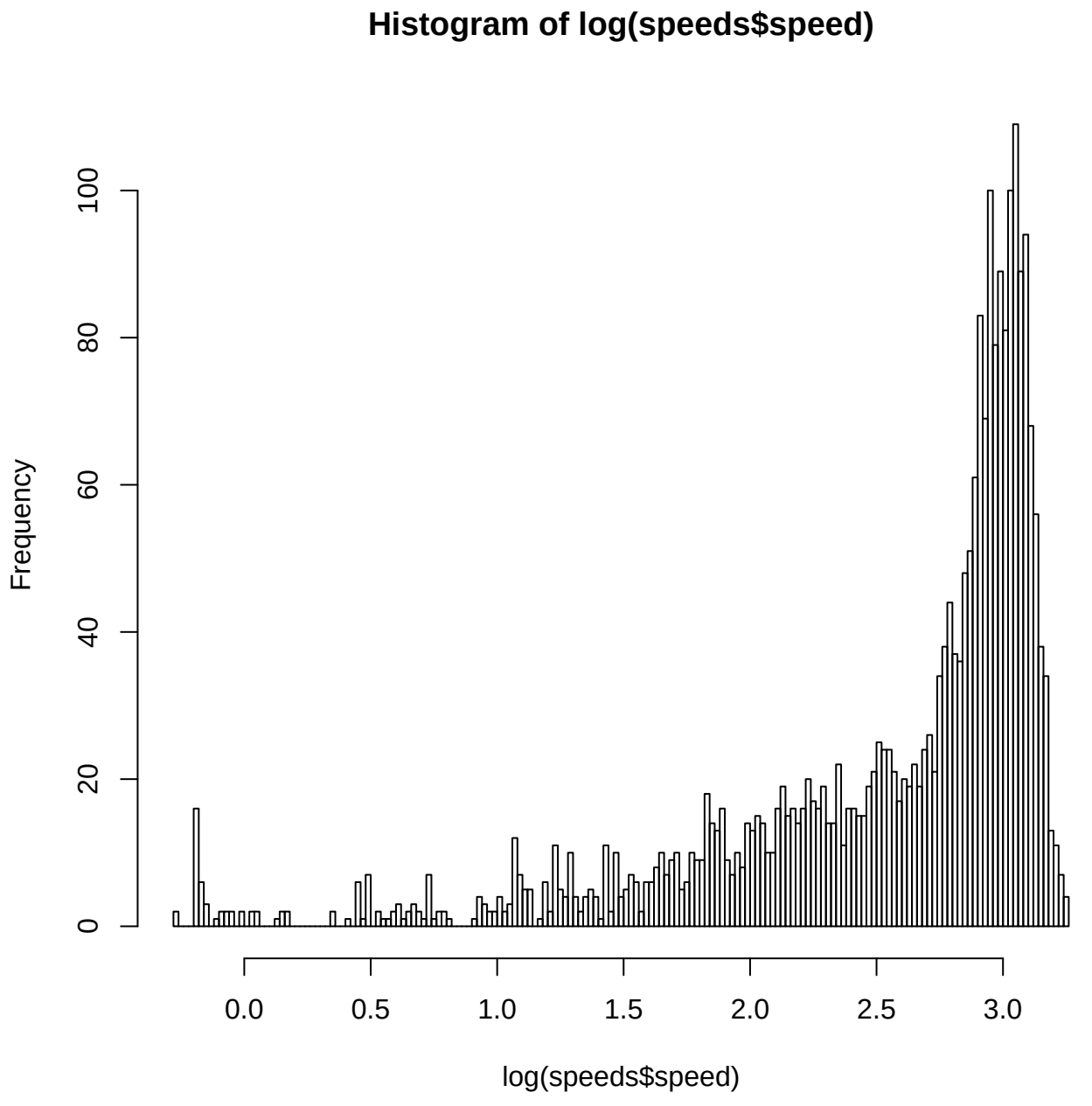

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

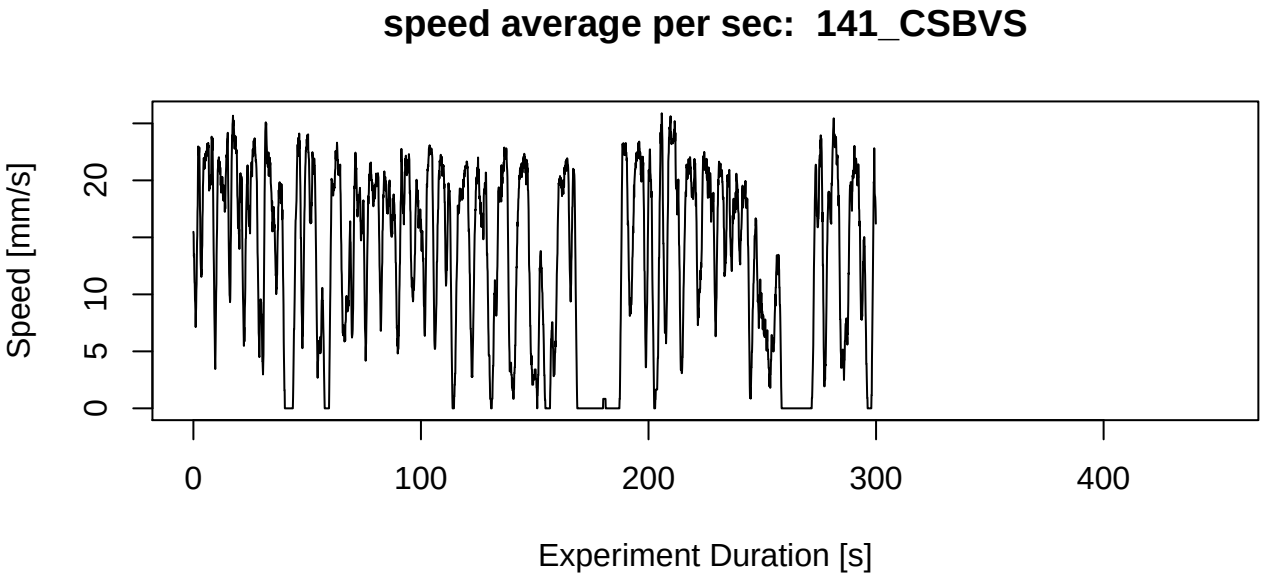

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

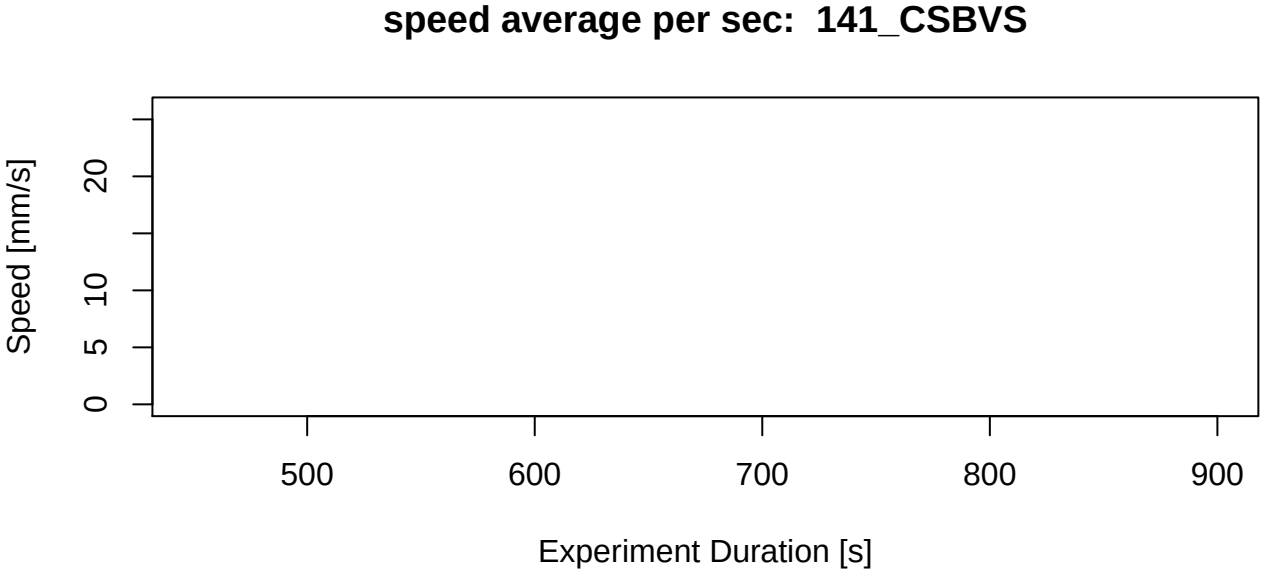

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

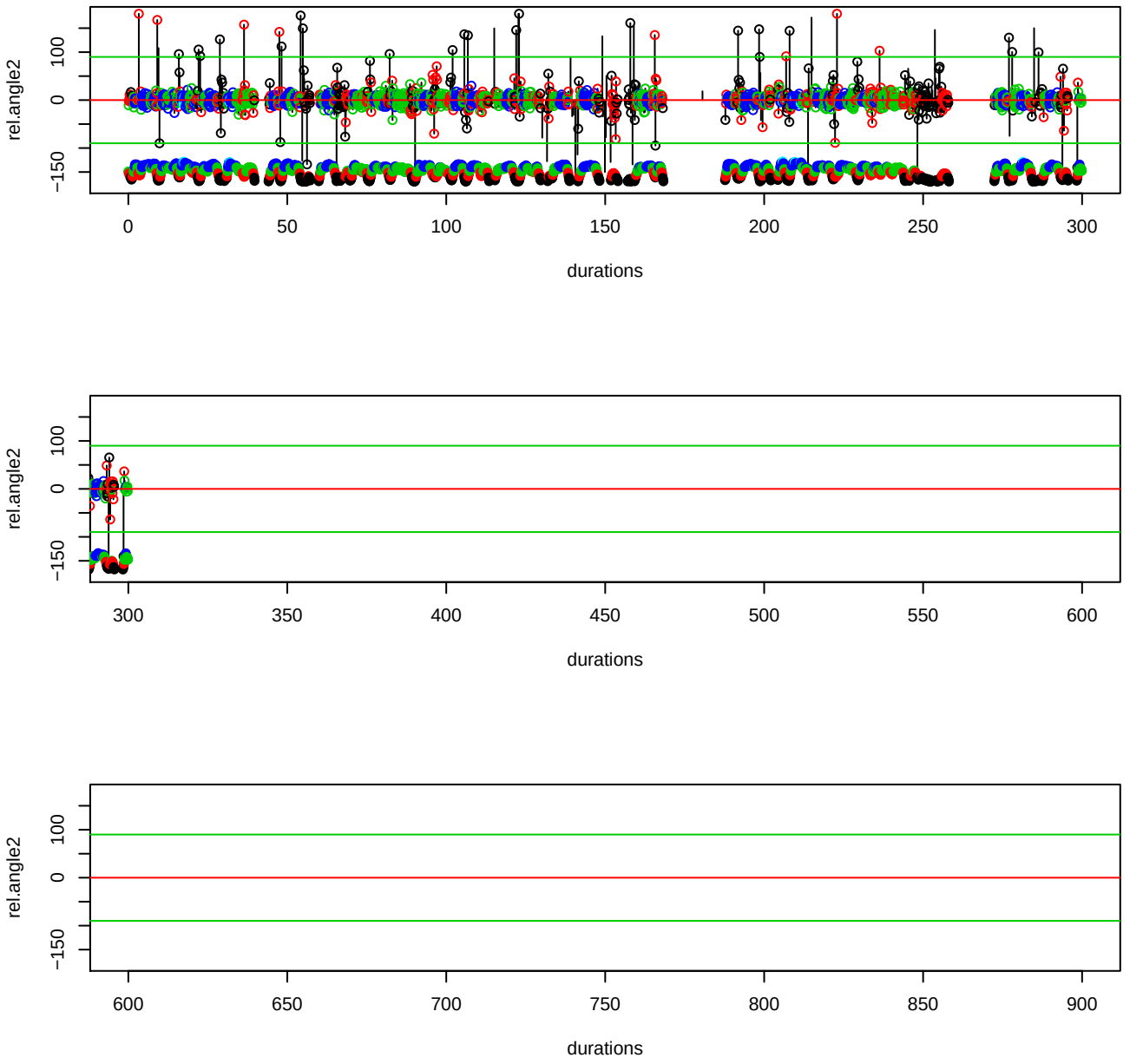

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

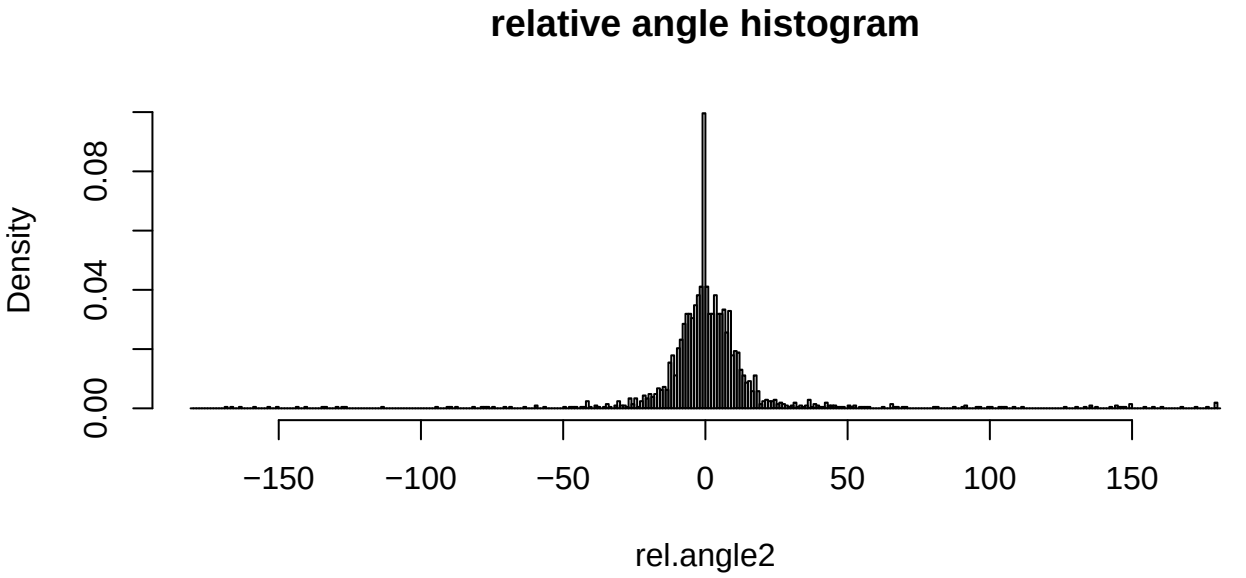

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

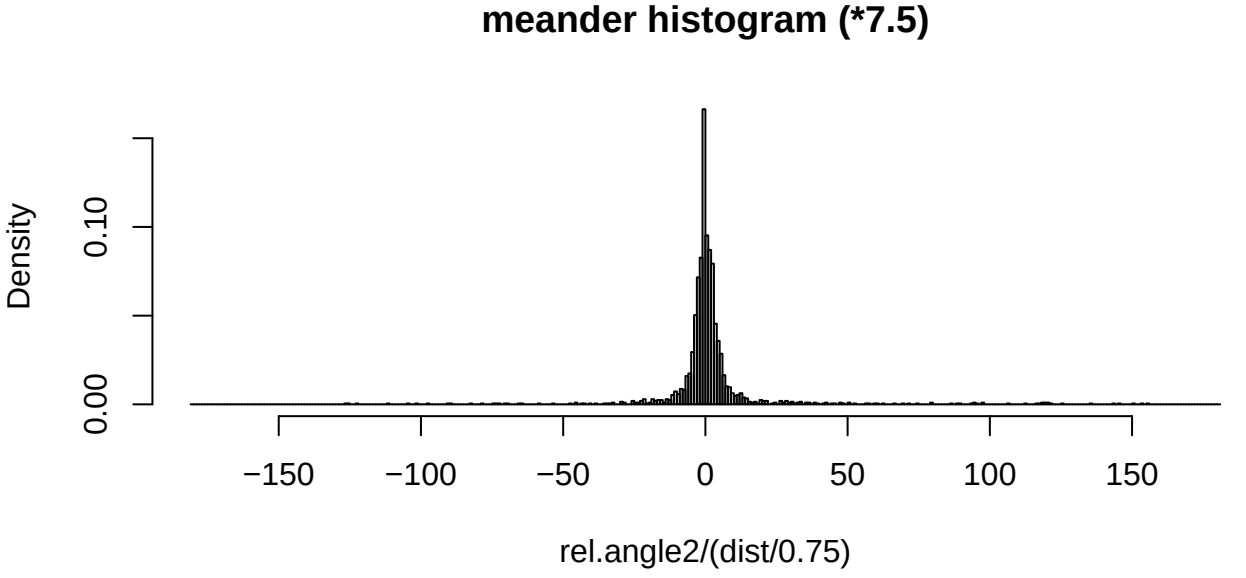

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

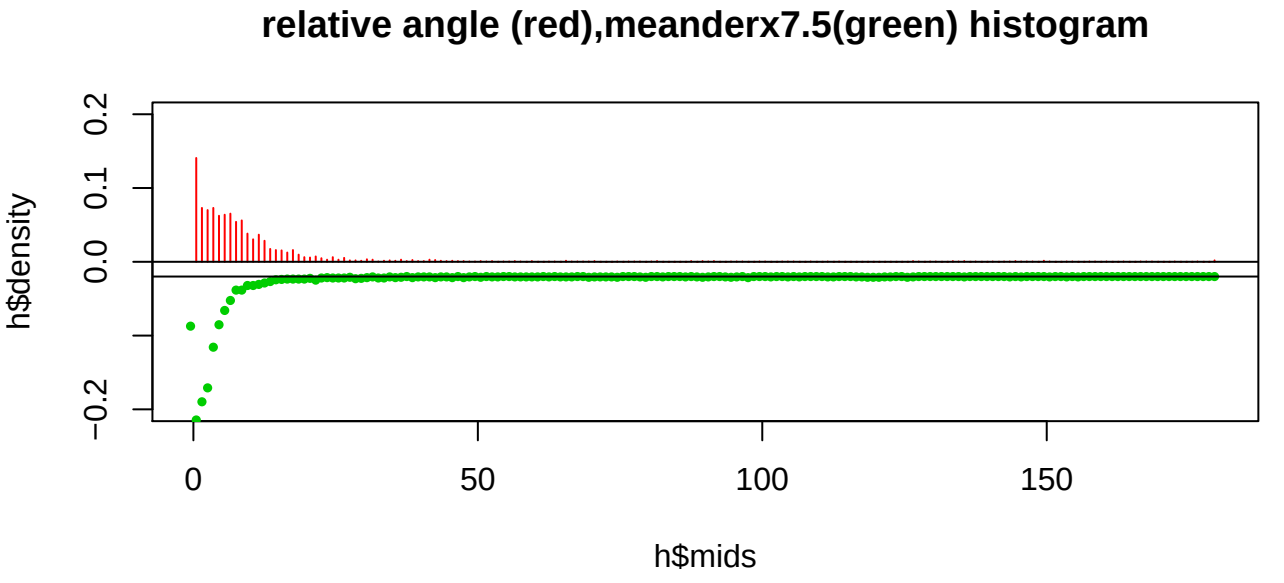

speed average per sec: 141_CSBVS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

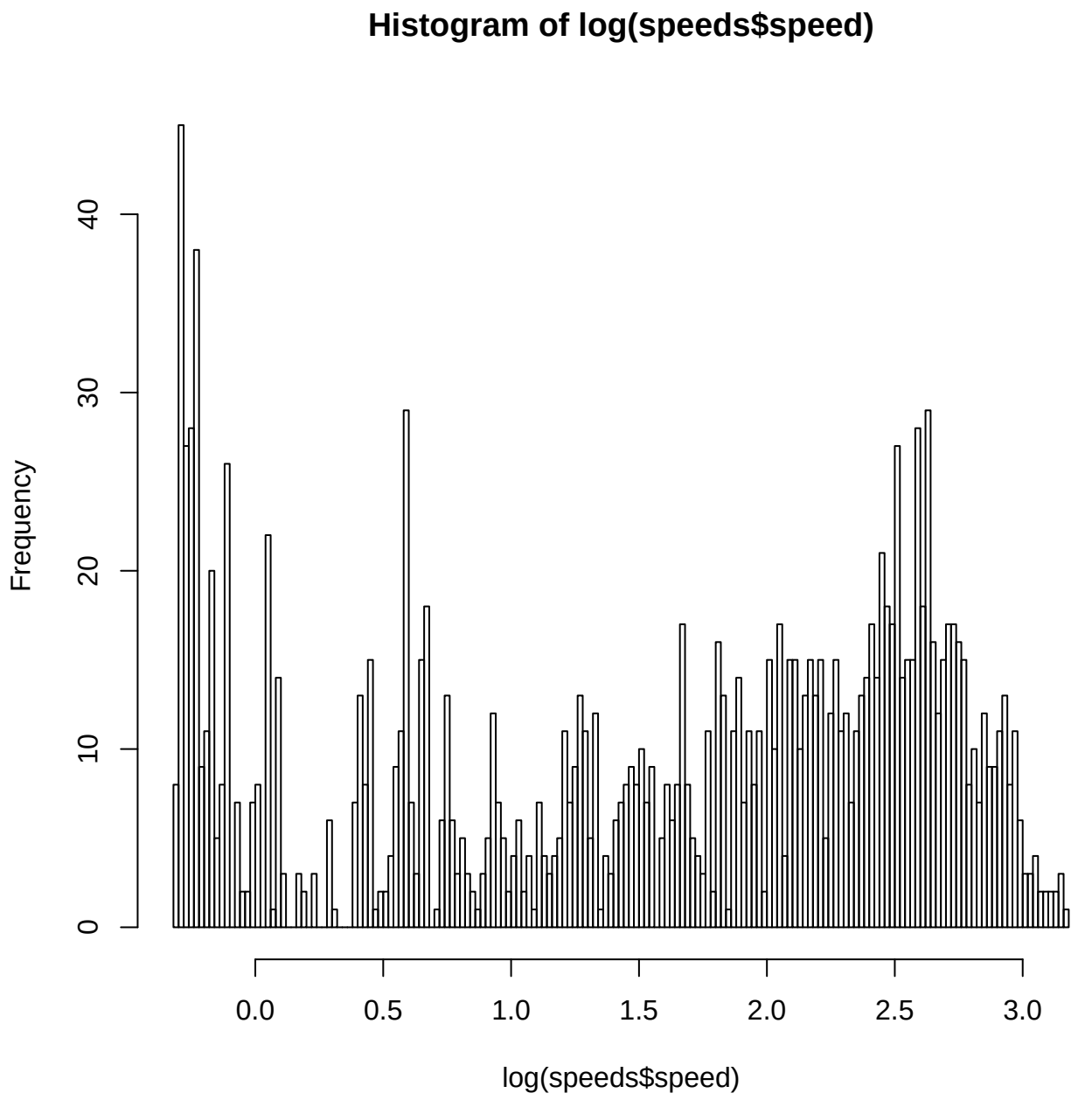

speed average per sec: 141_CSBVS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

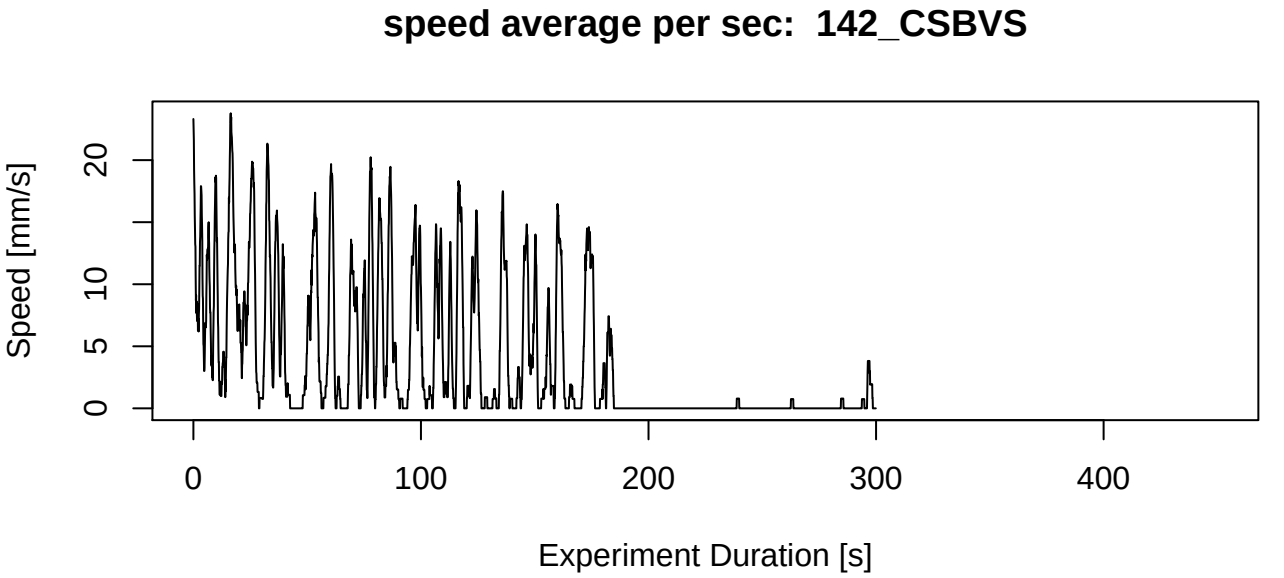

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

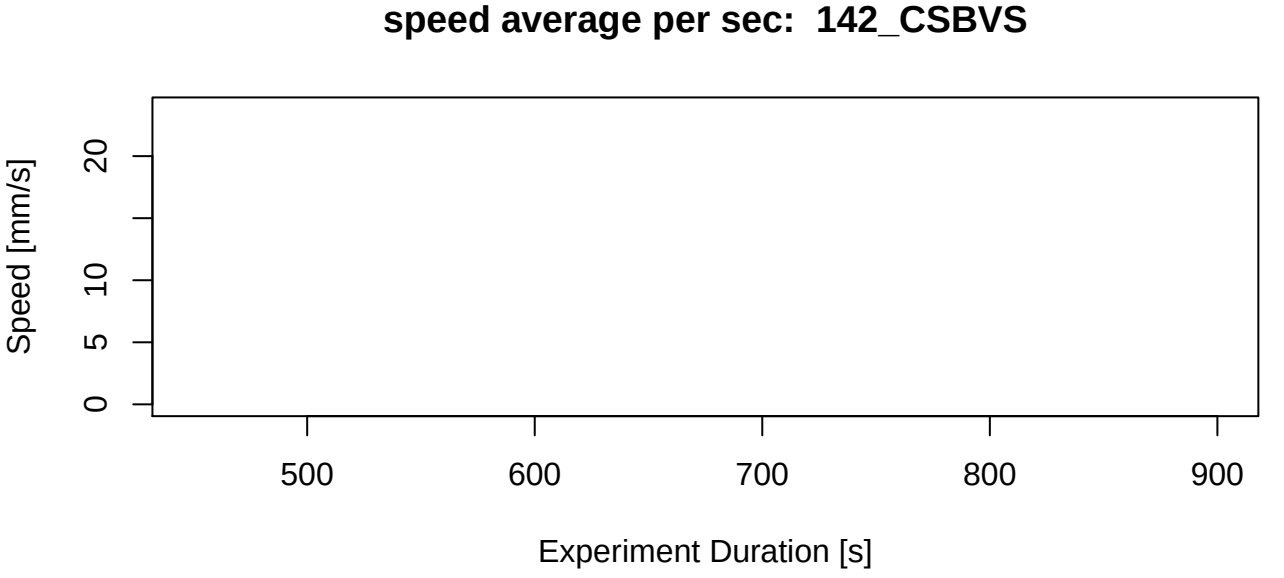

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

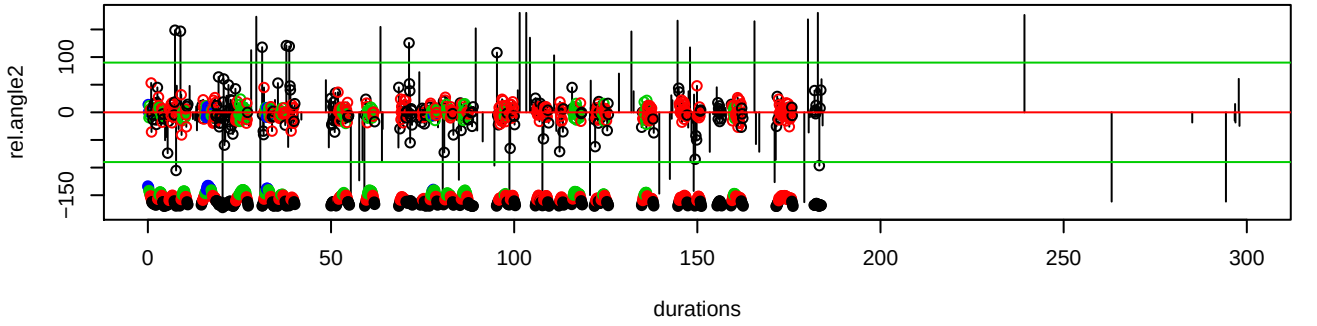

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

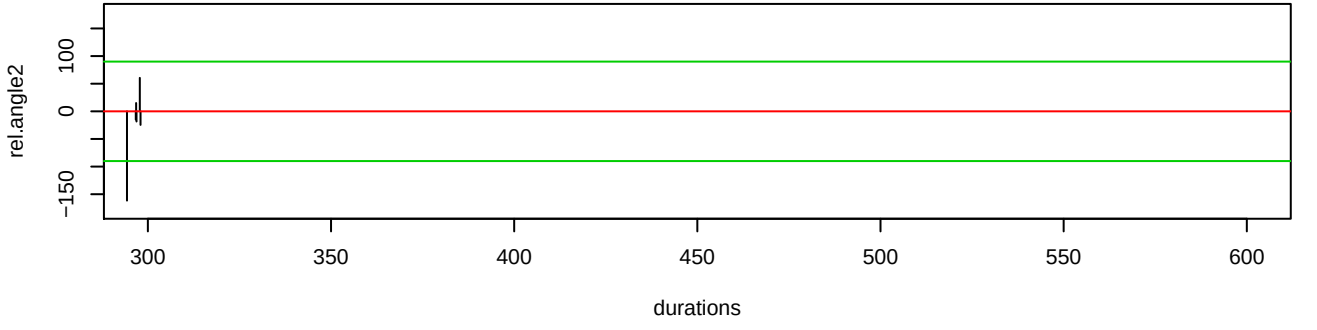

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

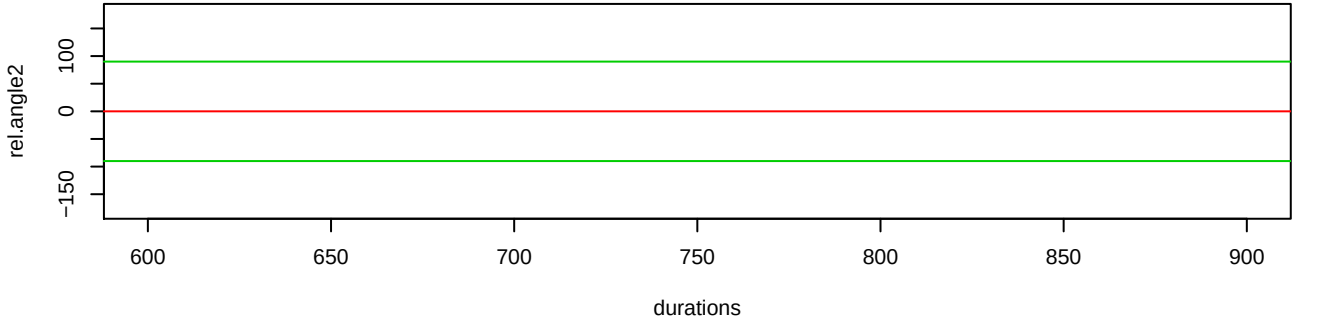

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

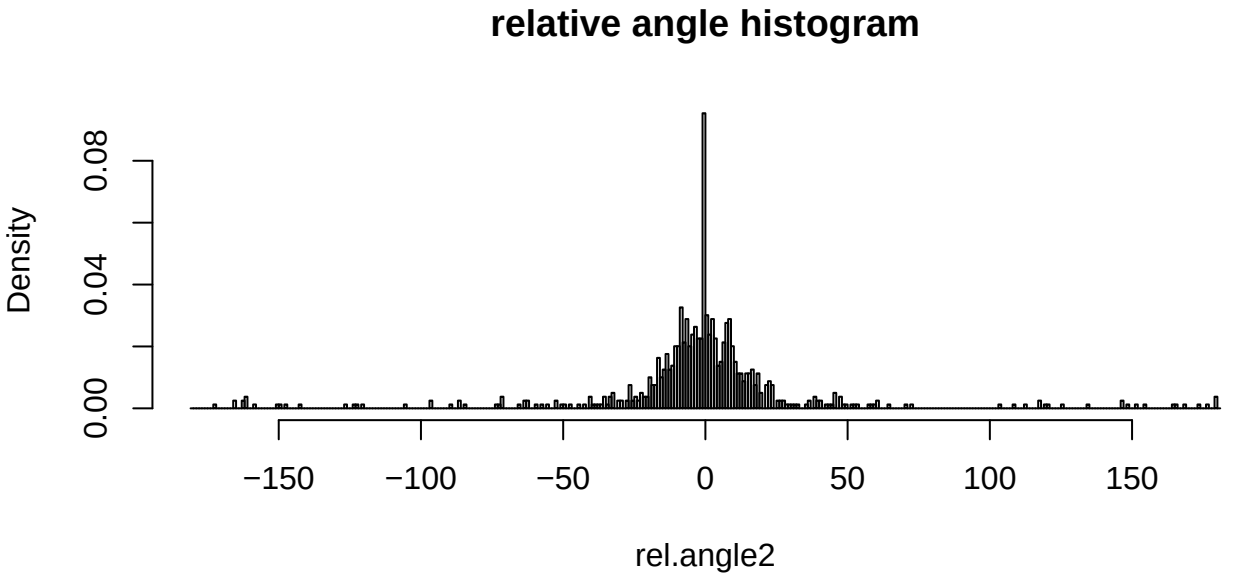

speed average per sec: 142_CSBVS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

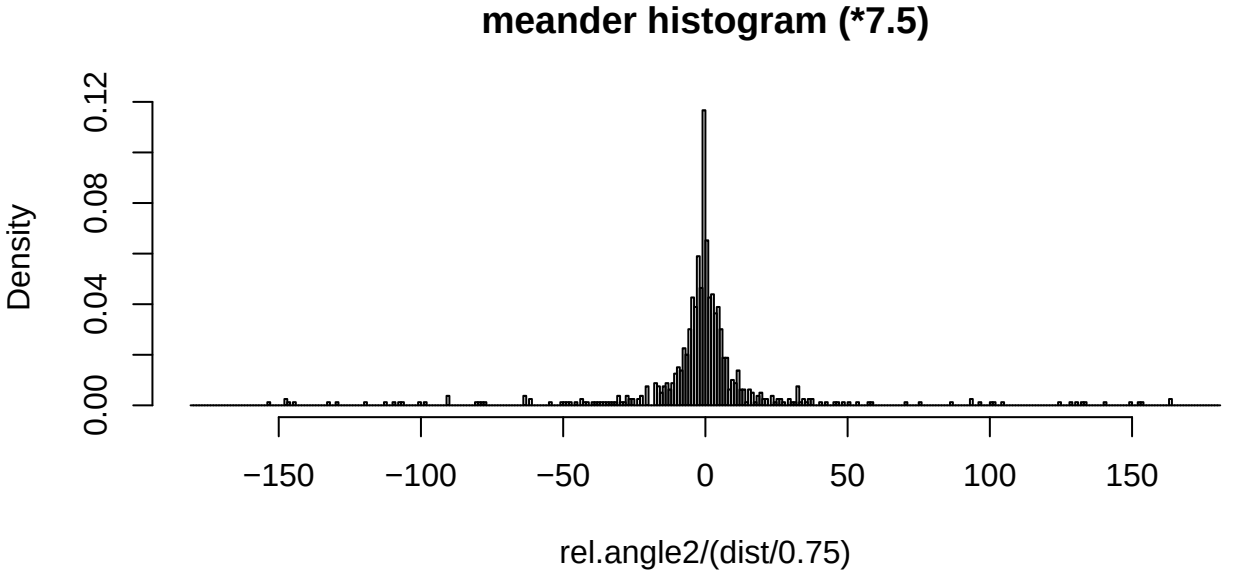

speed average per sec: 142_CSBVS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

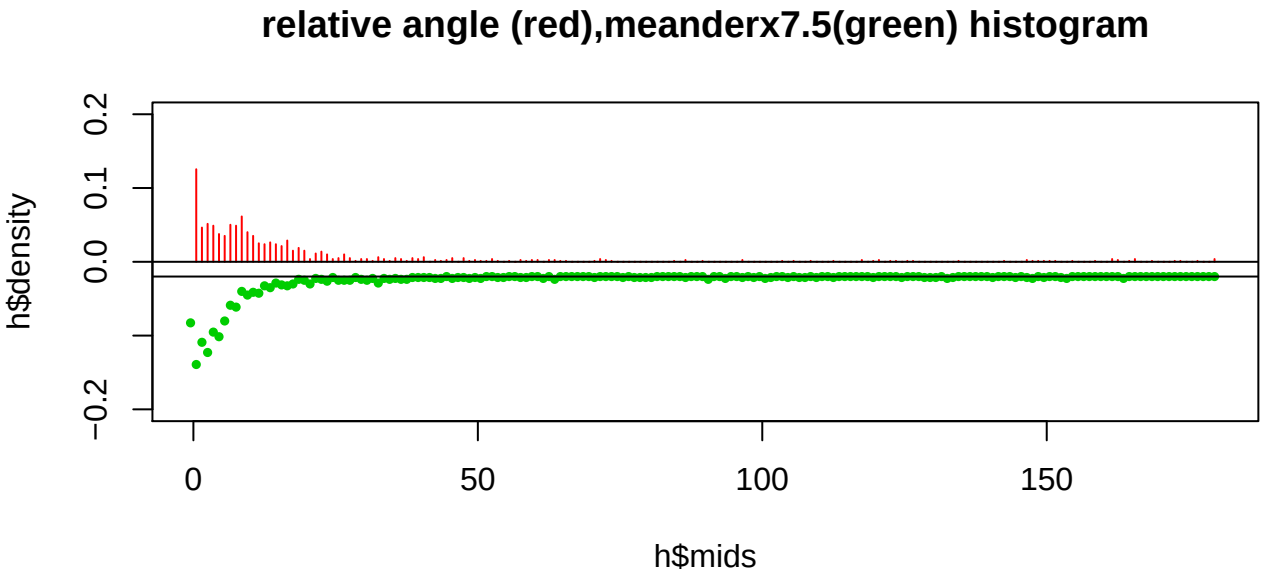

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

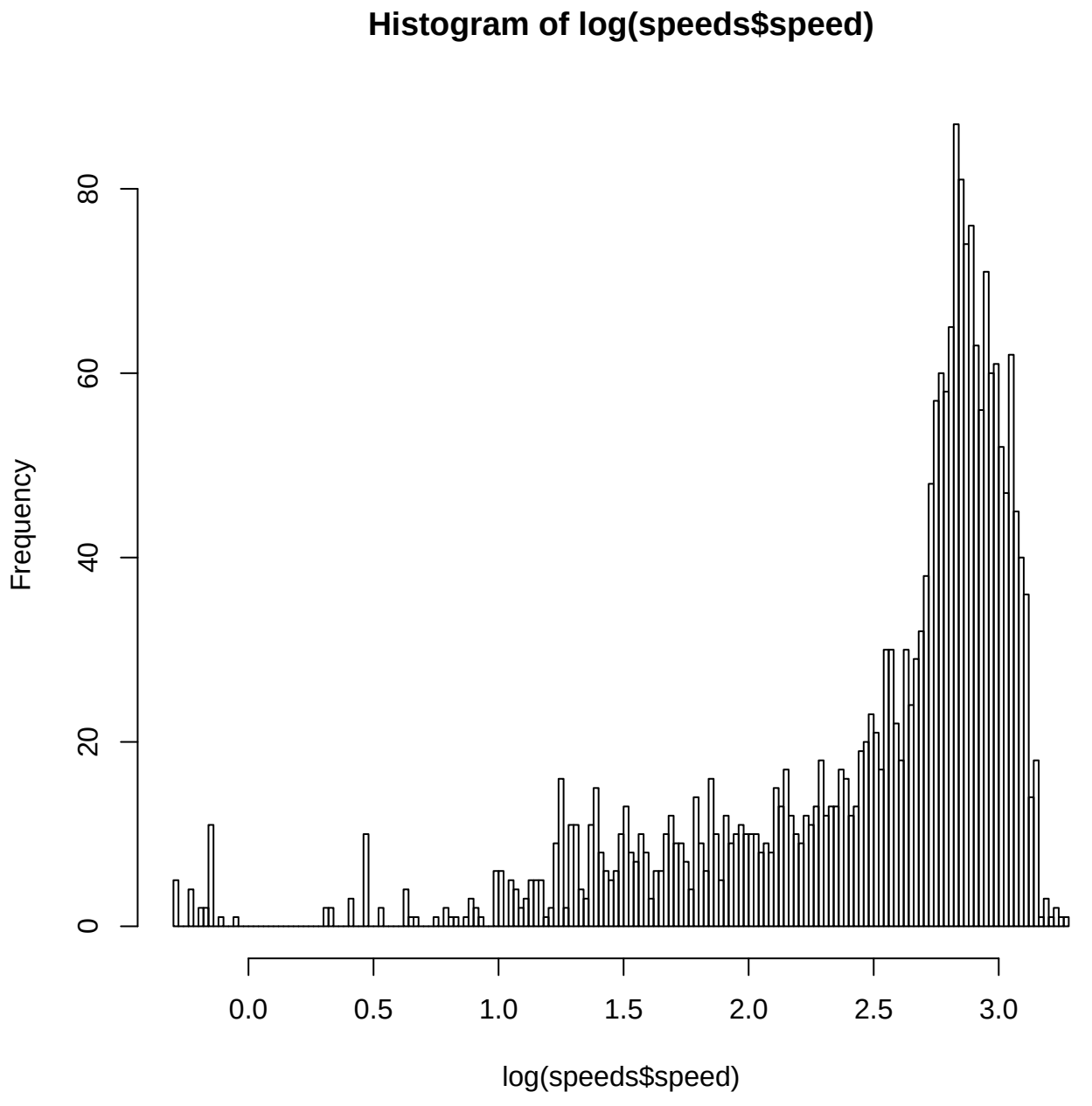

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

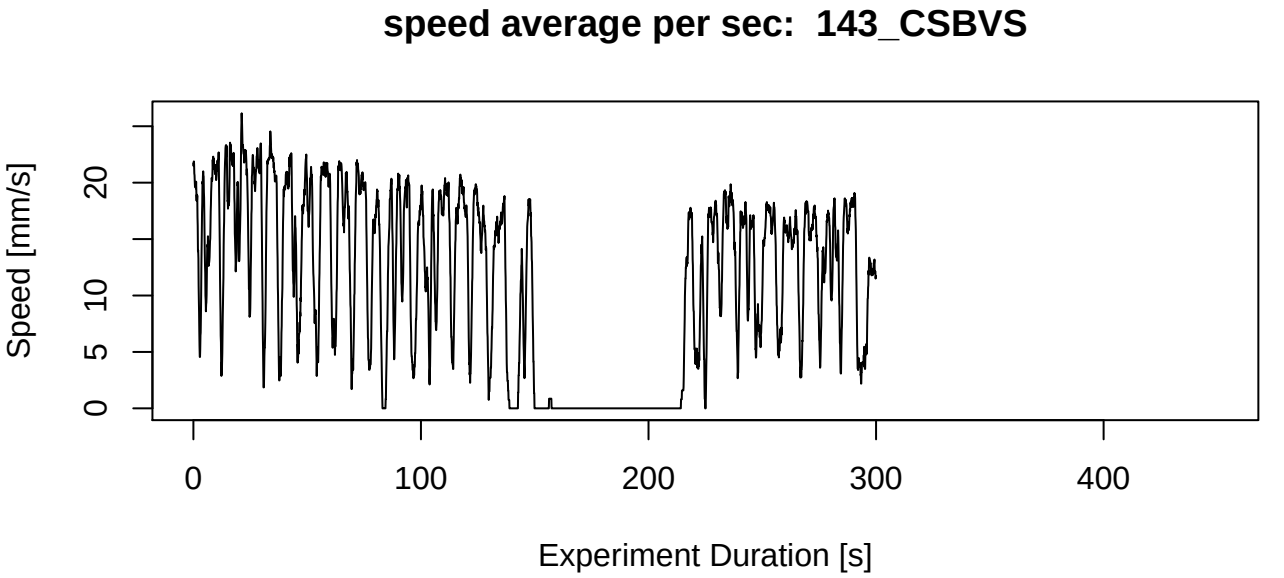

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

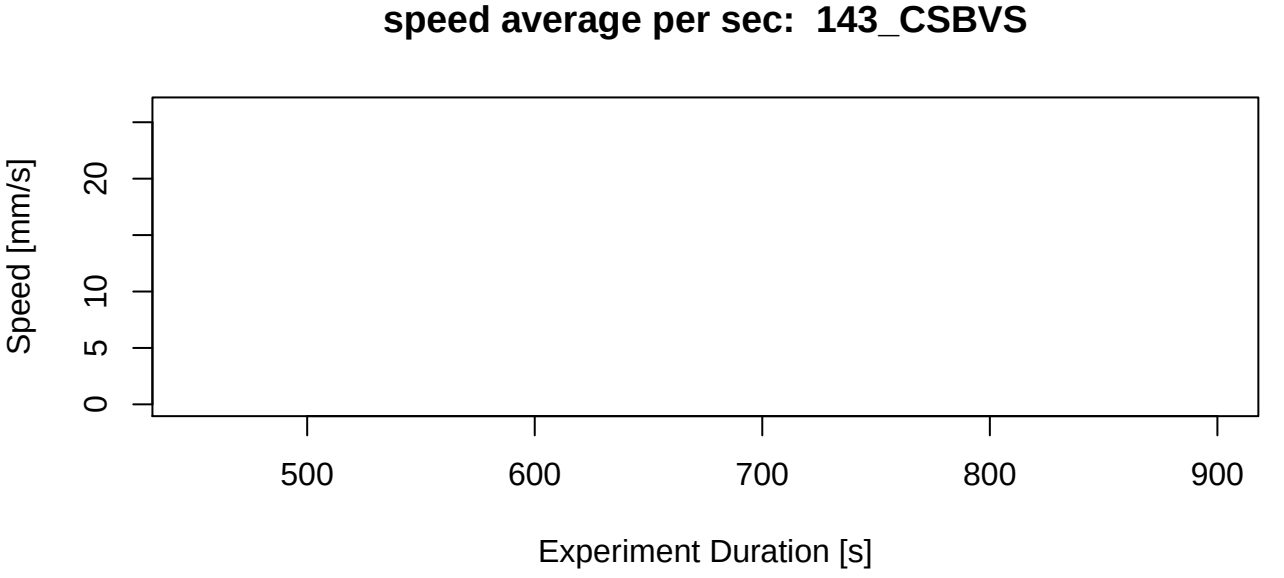

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

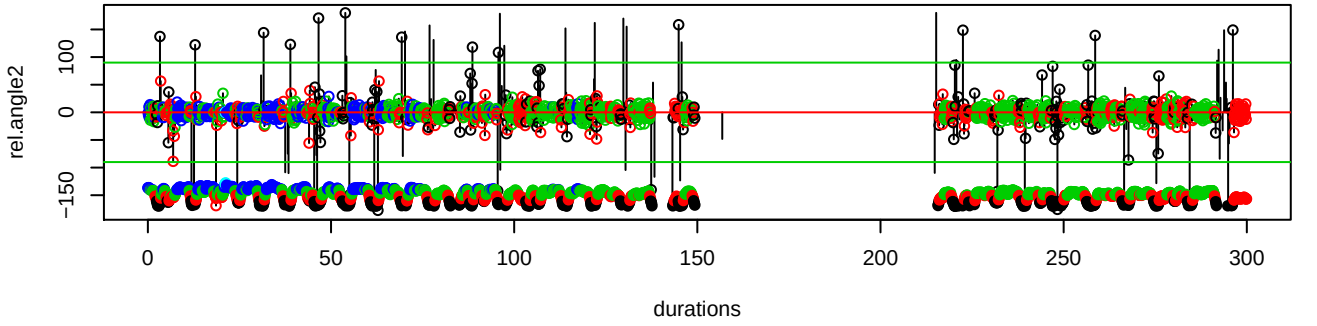

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

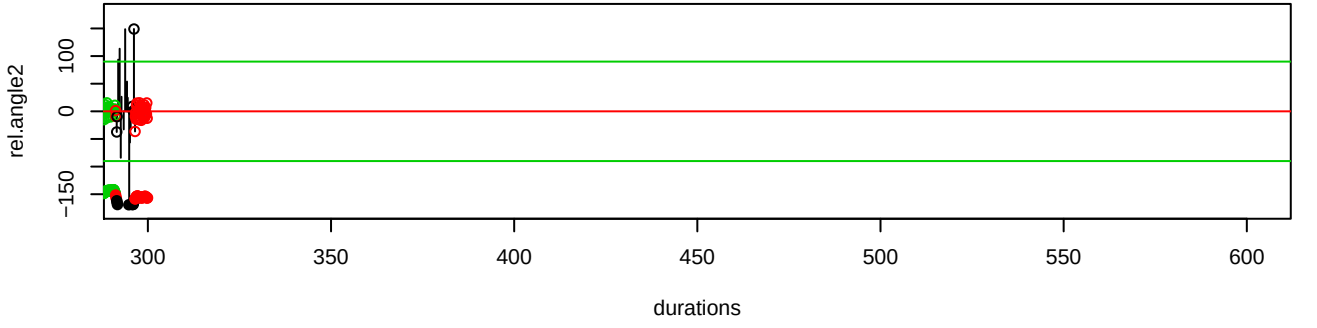

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

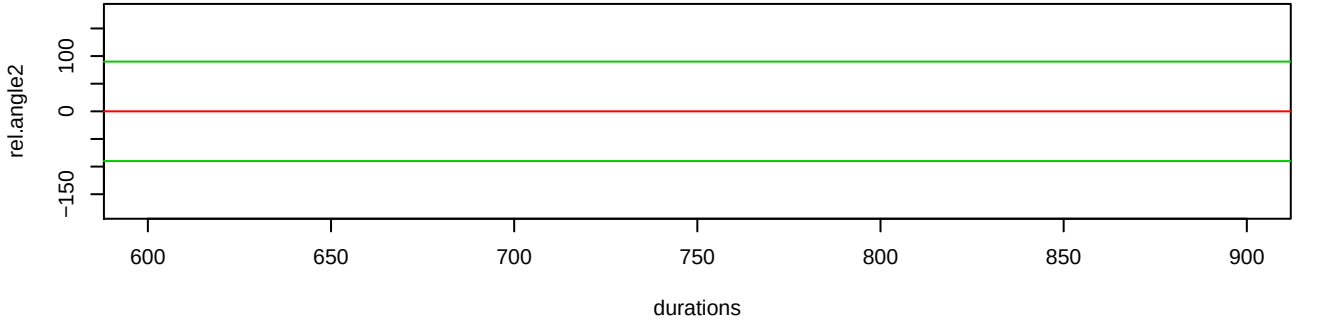

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

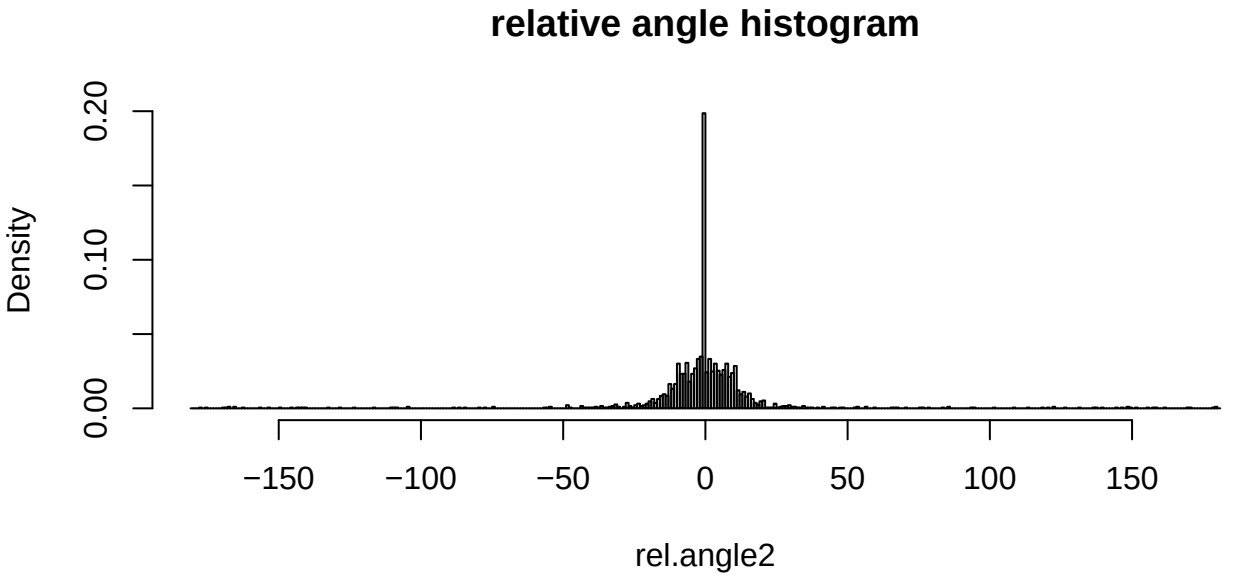

speed average per sec: 143_CSBVS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

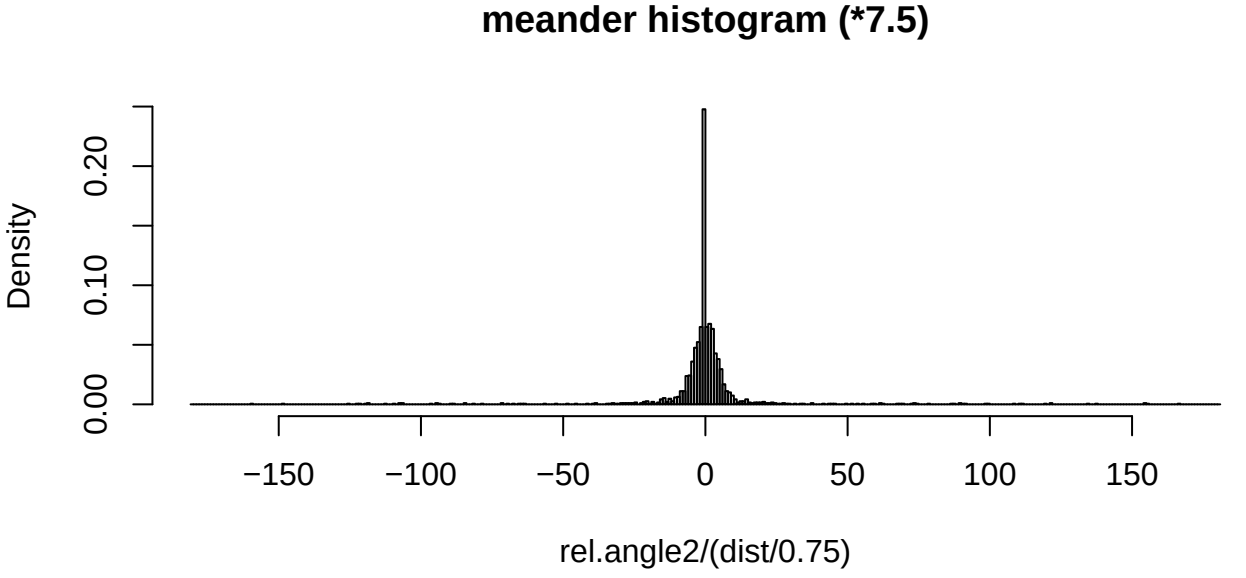

speed average per sec: 143_CSBVS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

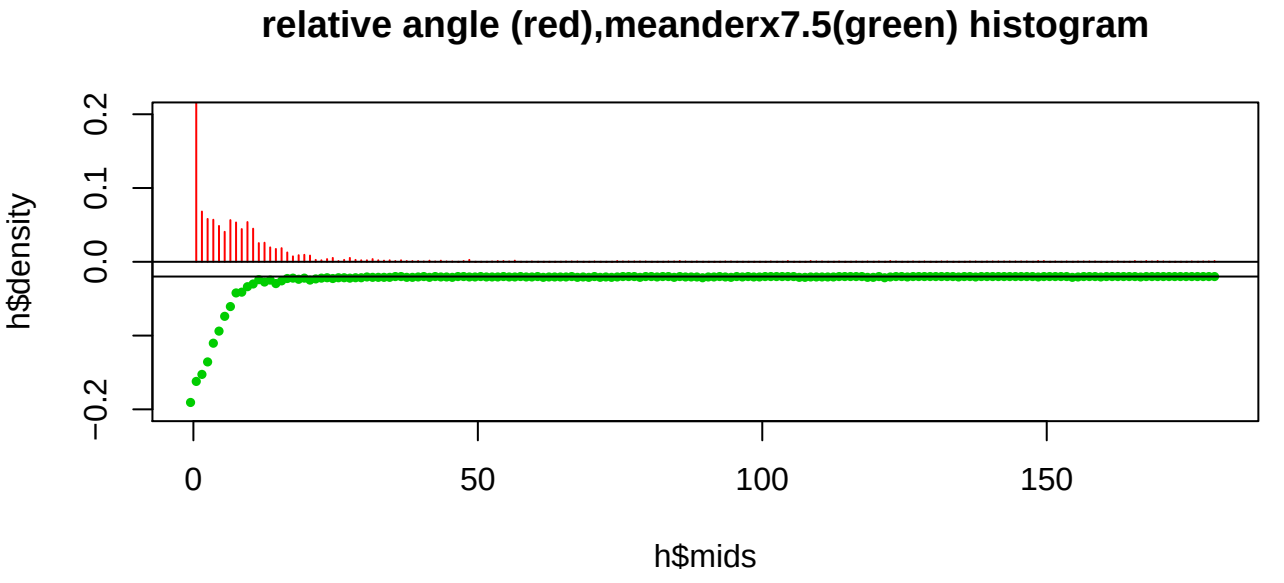

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

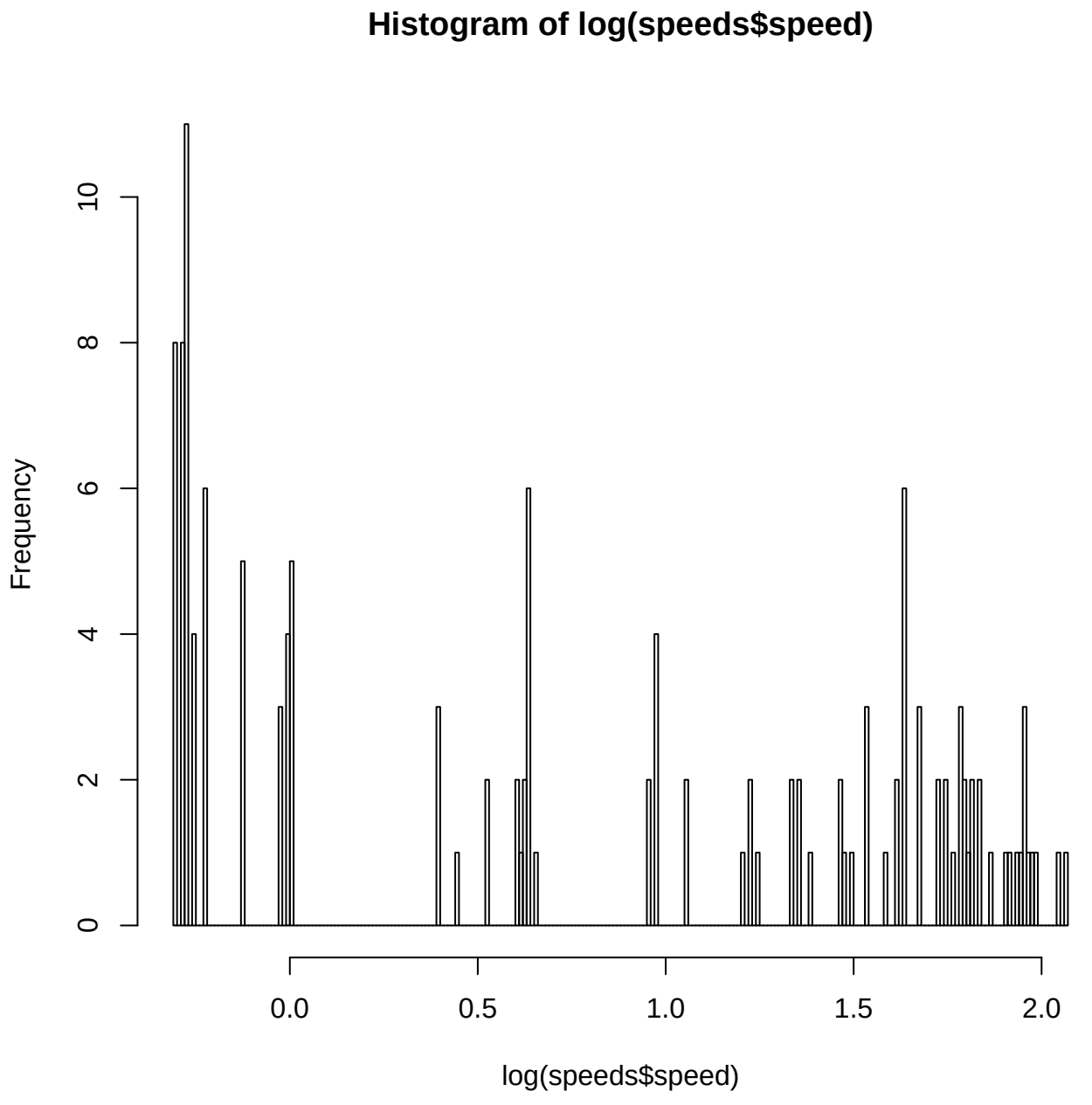

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

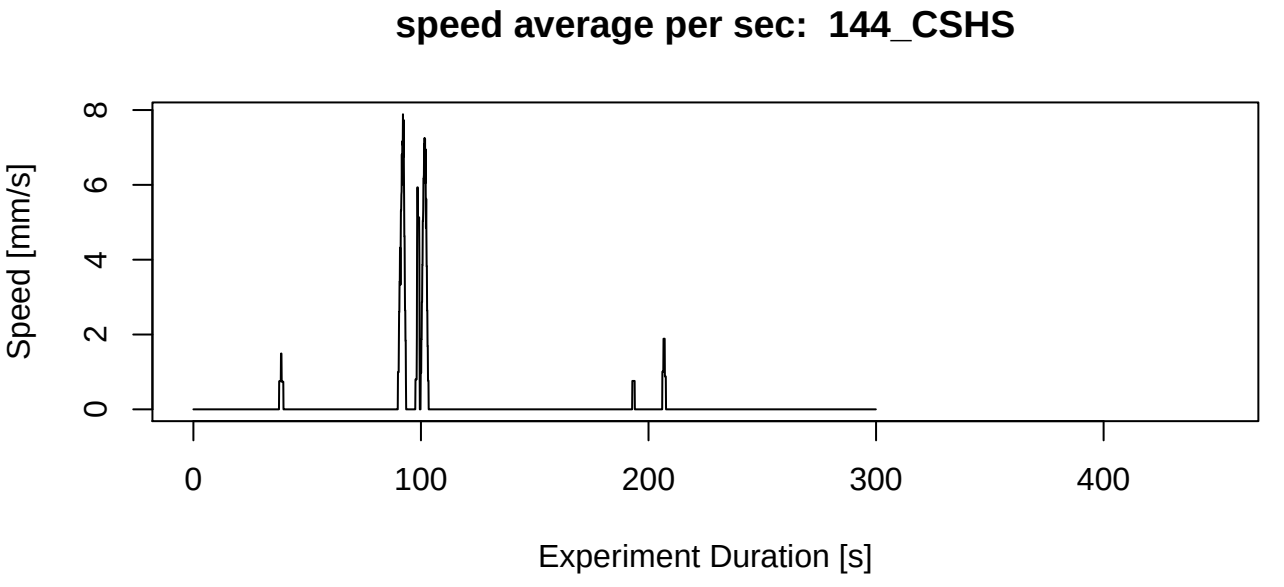

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

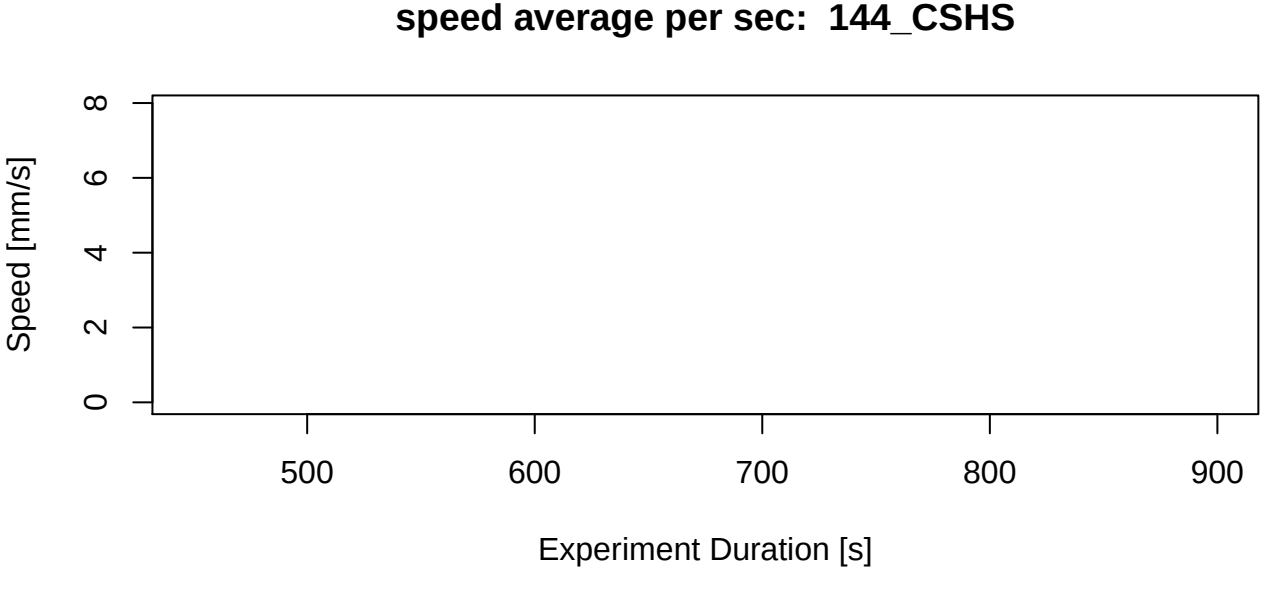

relative angle histogram
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2

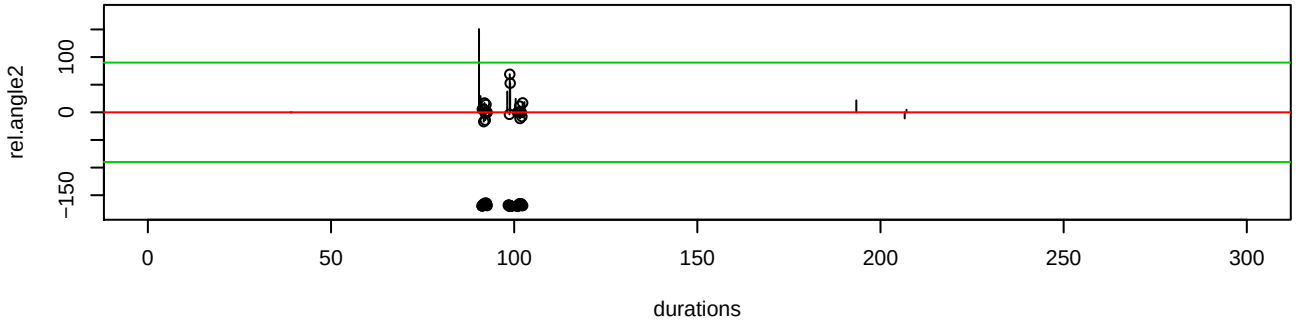

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

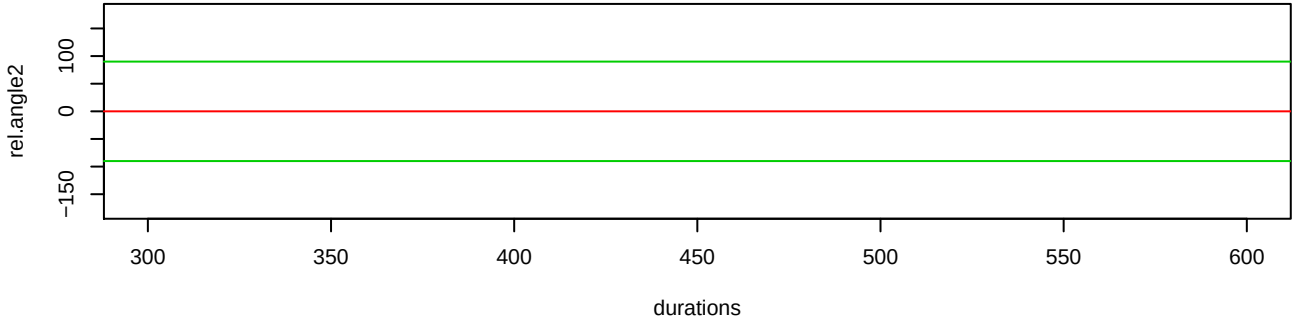

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

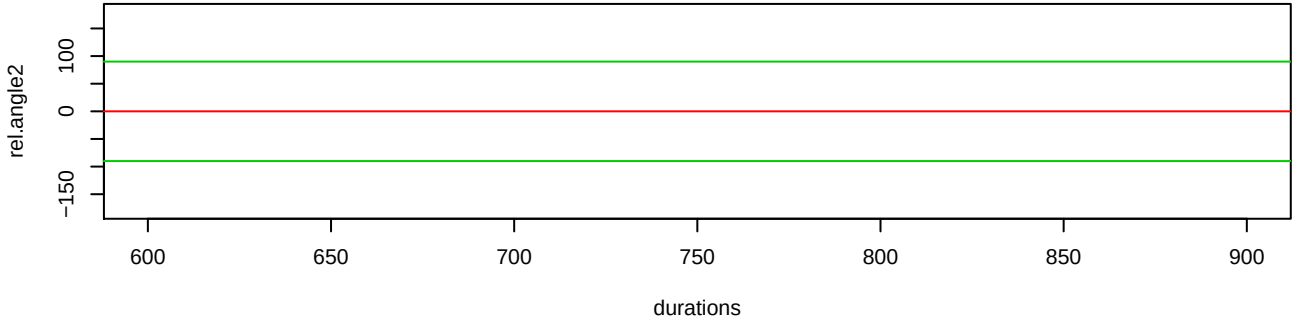

Histogram of log(speeds$speed)
Frequency
0
2
4
6
8
10
0.0
0.5
1.0
1.5
2.0
log(speeds$speed)

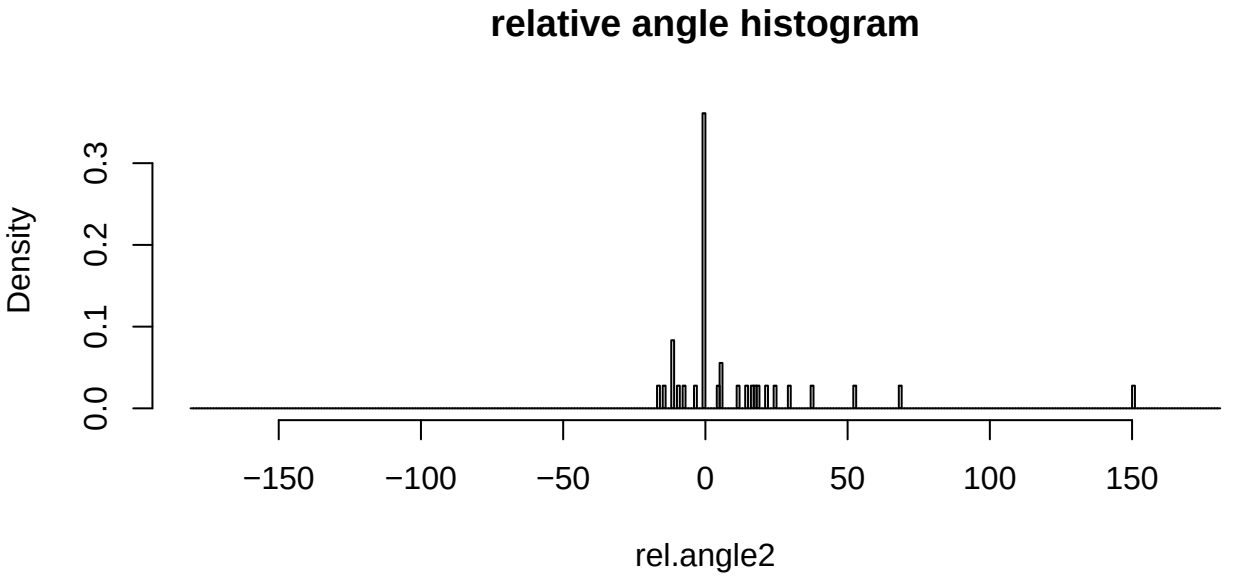

speed average per sec: 144_CSHS
Speed [mm/s]
0
2
4
6
8
0
100
200
300
400
Experiment Duration [s]

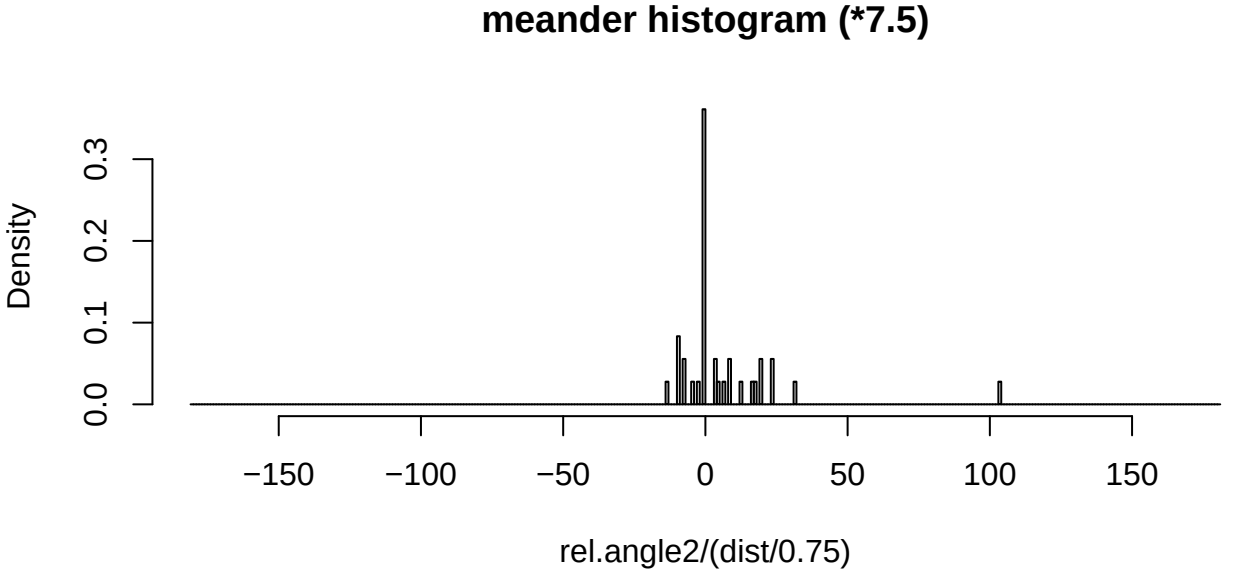

speed average per sec: 144_CSHS
Speed [mm/s]
0
2
4
6
8
500
600
700
800
900
Experiment Duration [s]

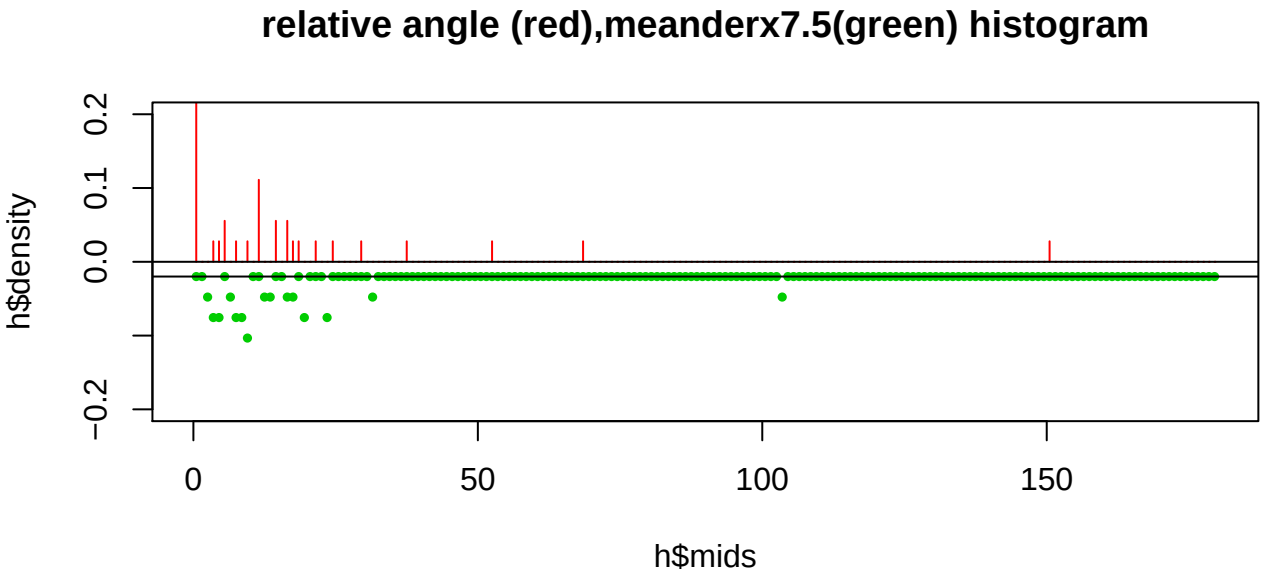

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

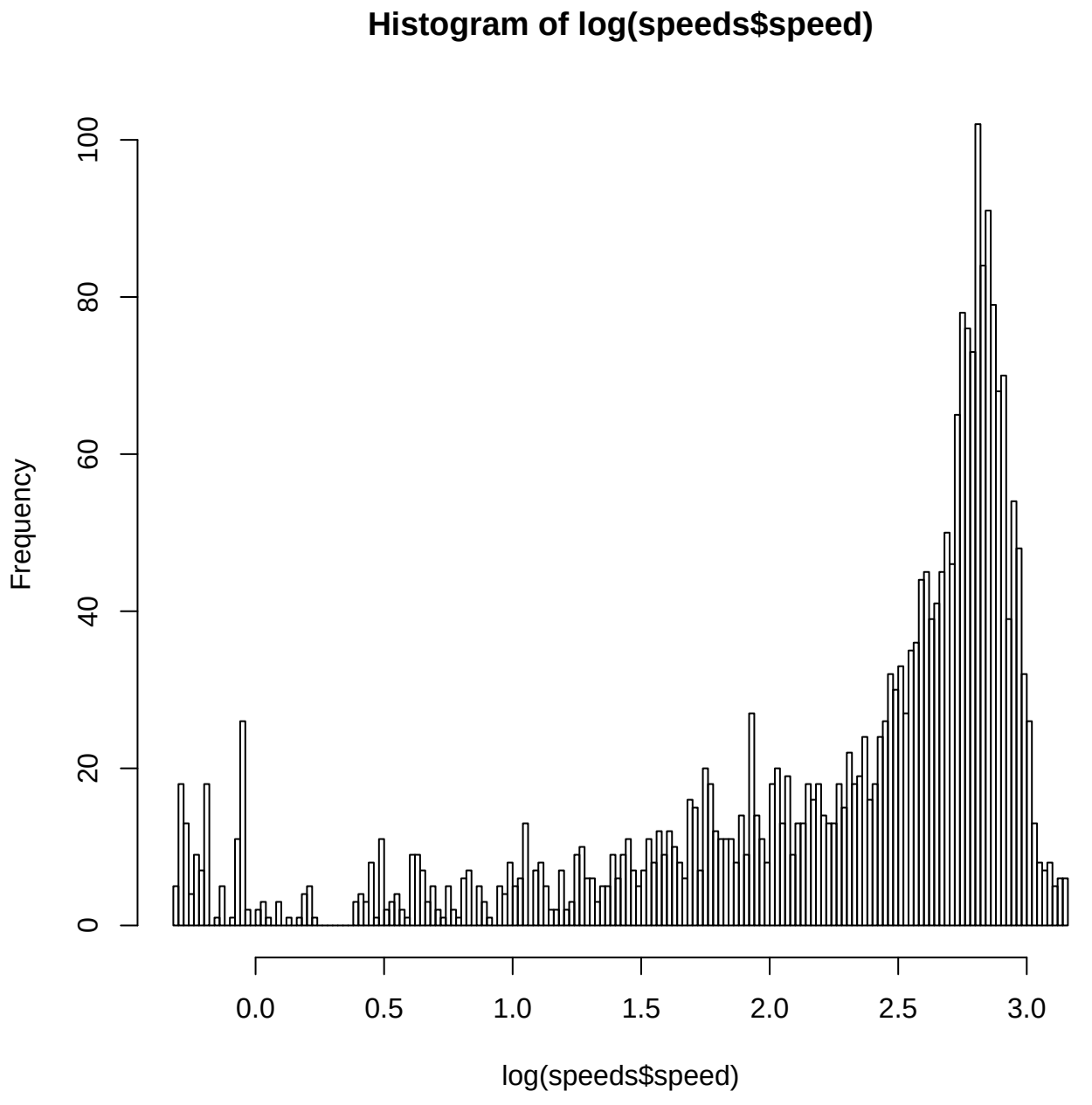

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

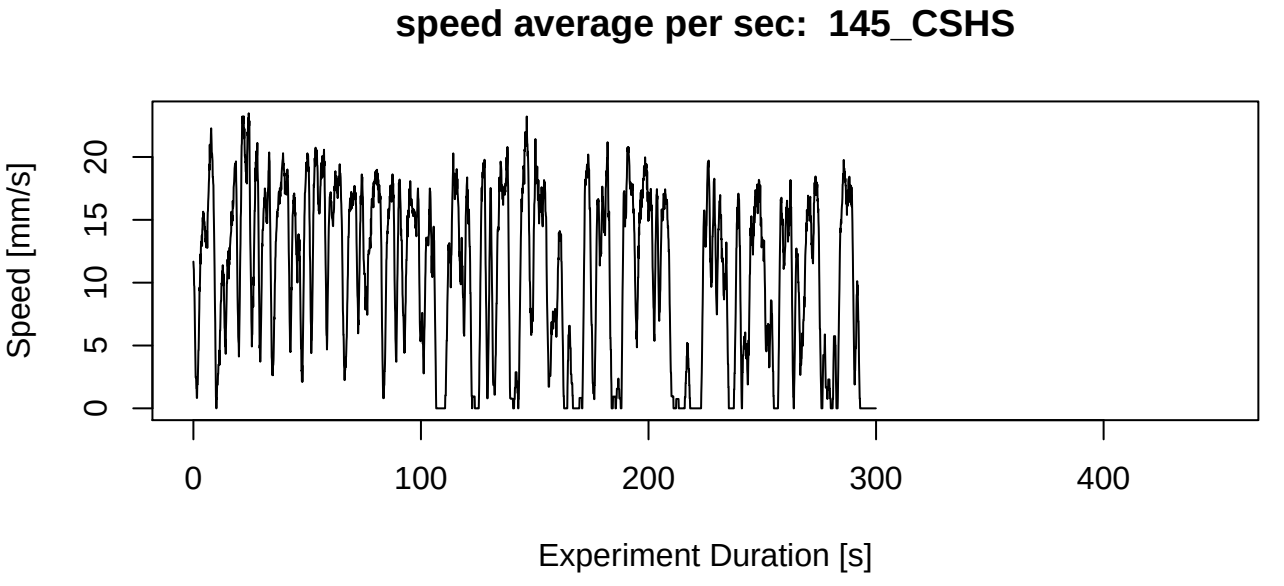

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

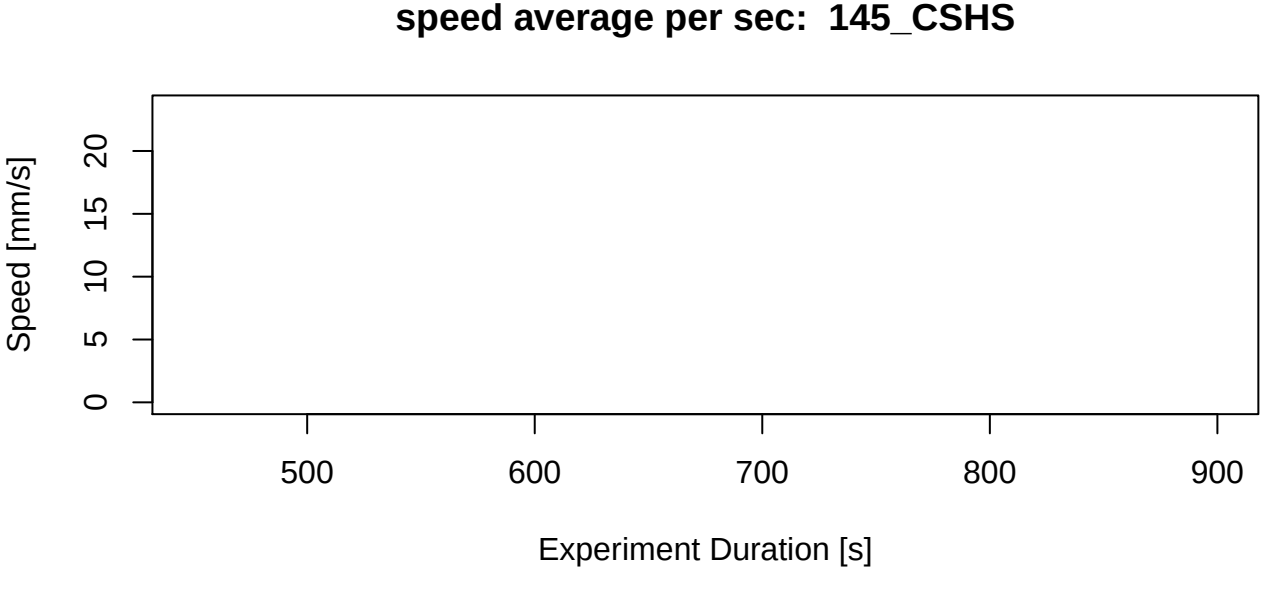

relative angle histogram
Density
0.0
0.1
0.2
0.3
−150
−100
−50
0
50
100
150
rel.angle2

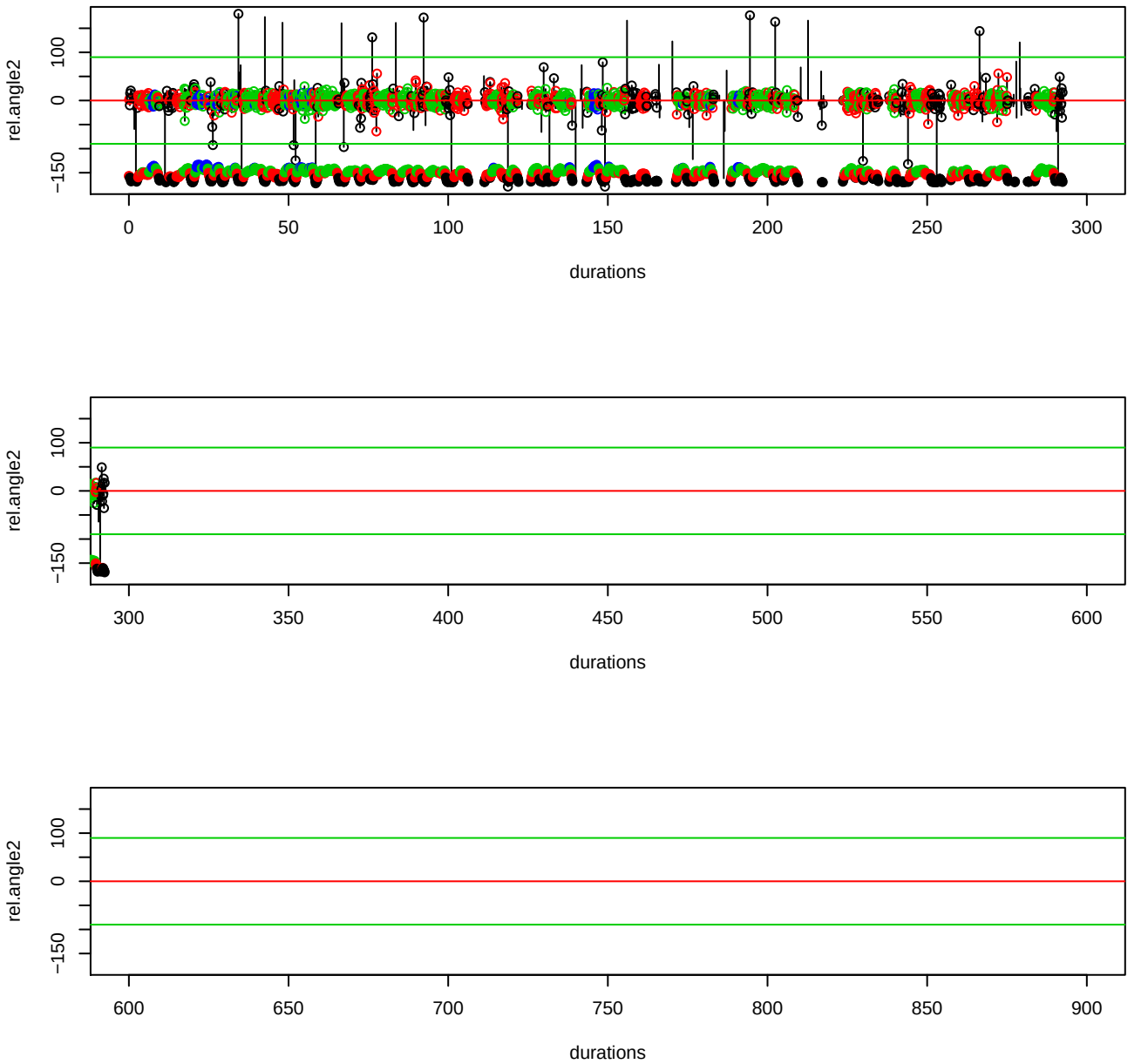

meander histogram (*7.5)
Density
0.0
0.1
0.2
0.3
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

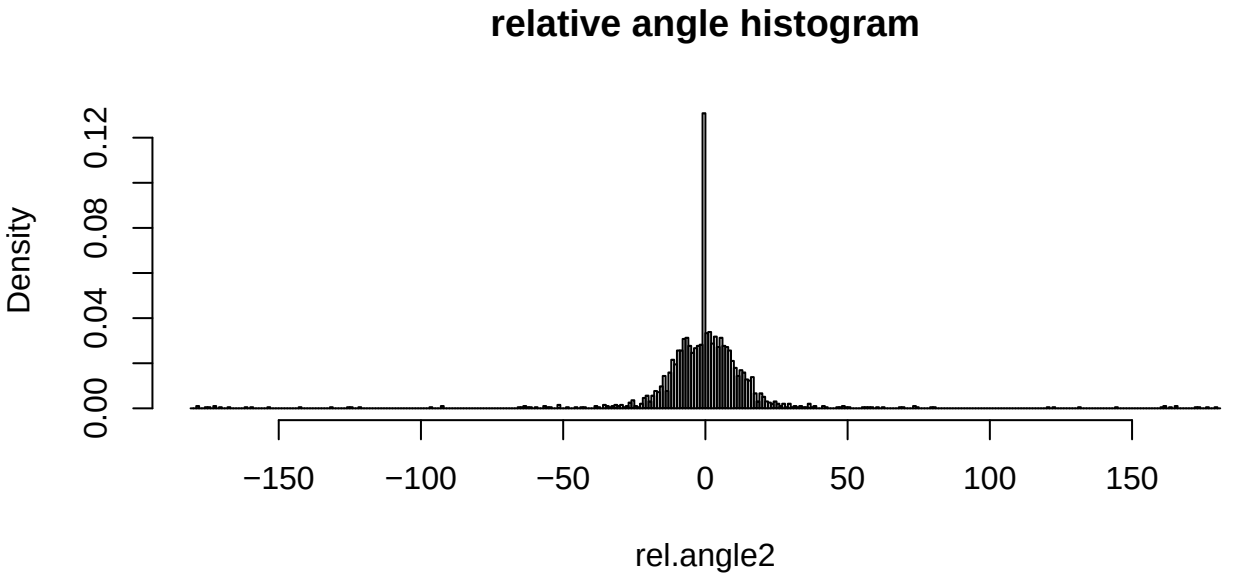

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

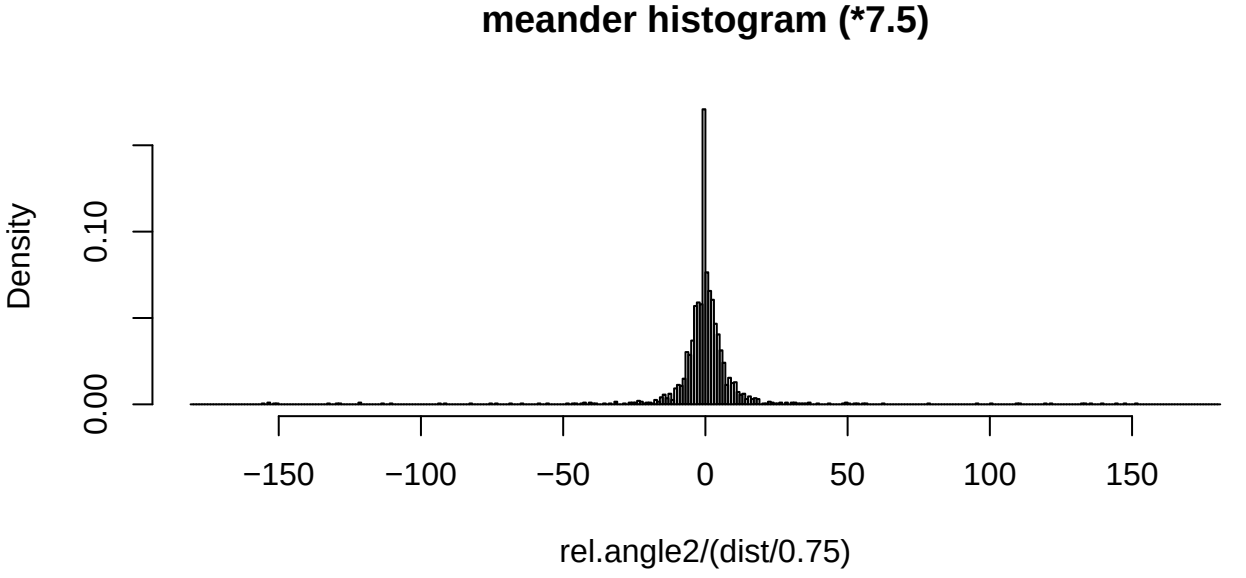

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

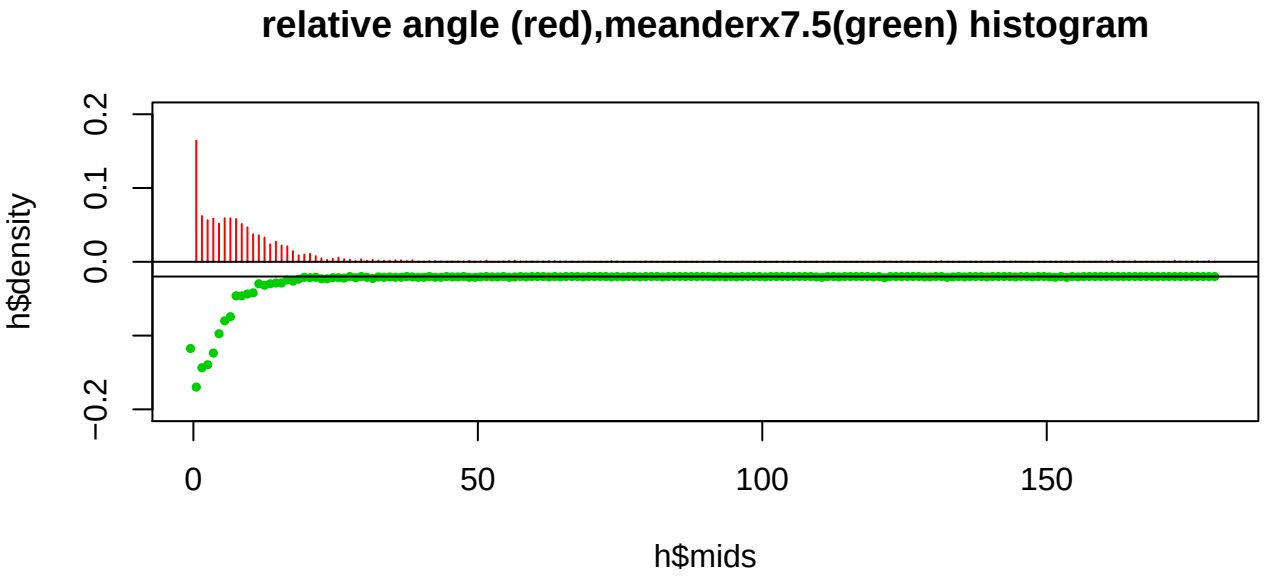

speed average per sec: 145_CSHS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

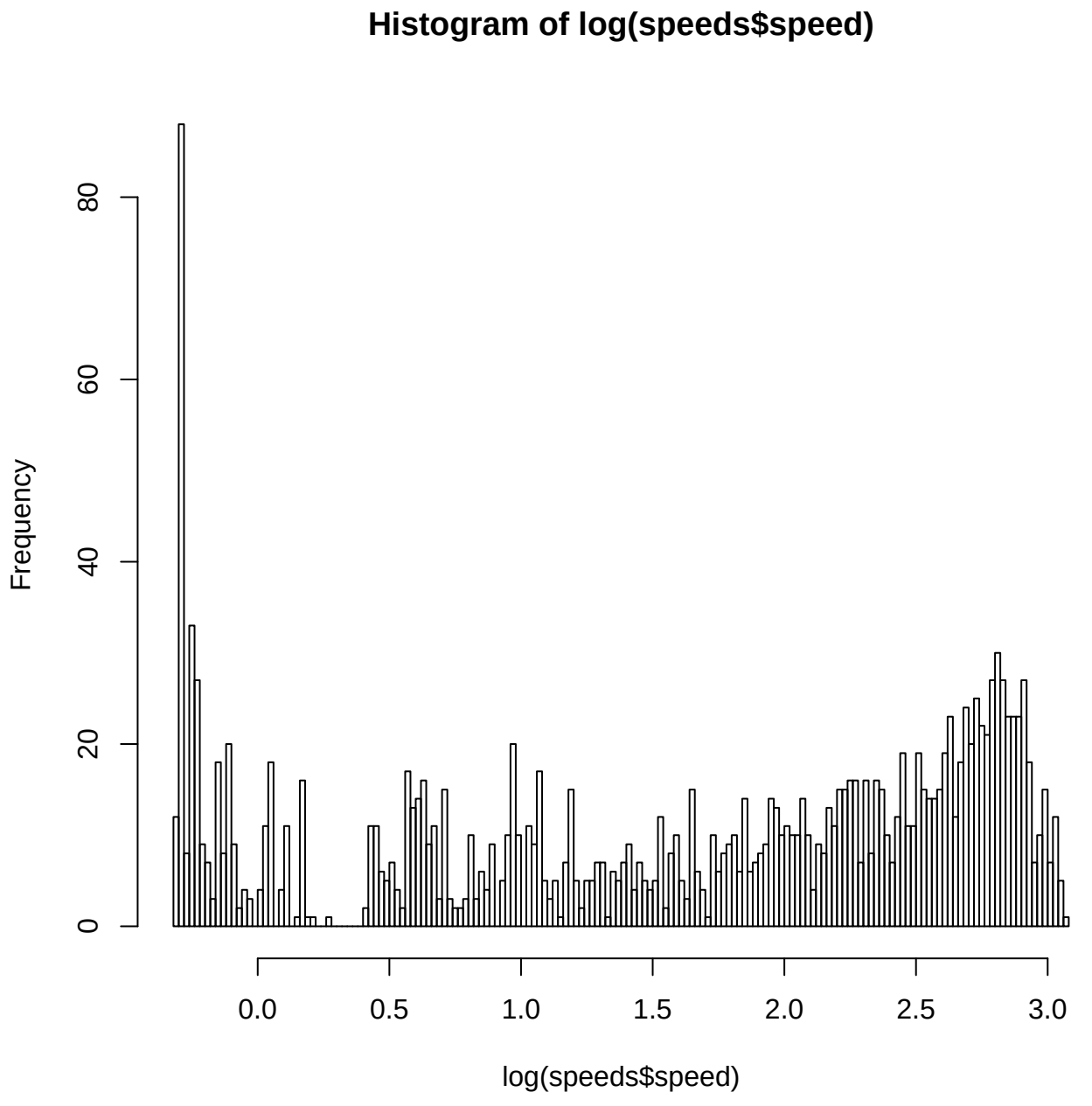

speed average per sec: 145_CSHS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

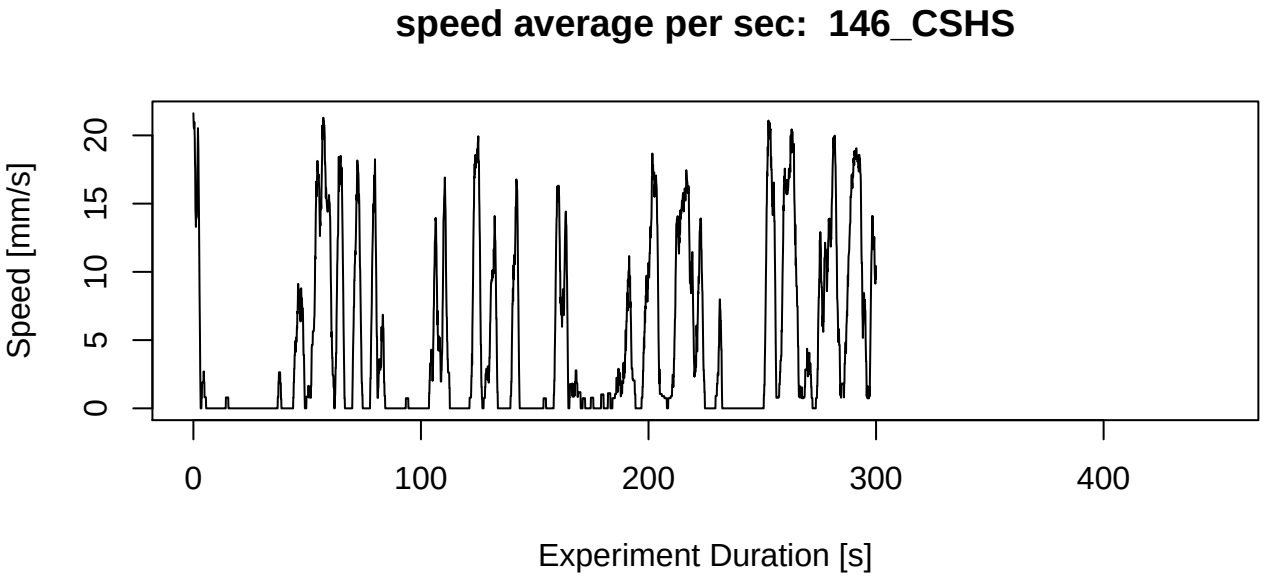

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

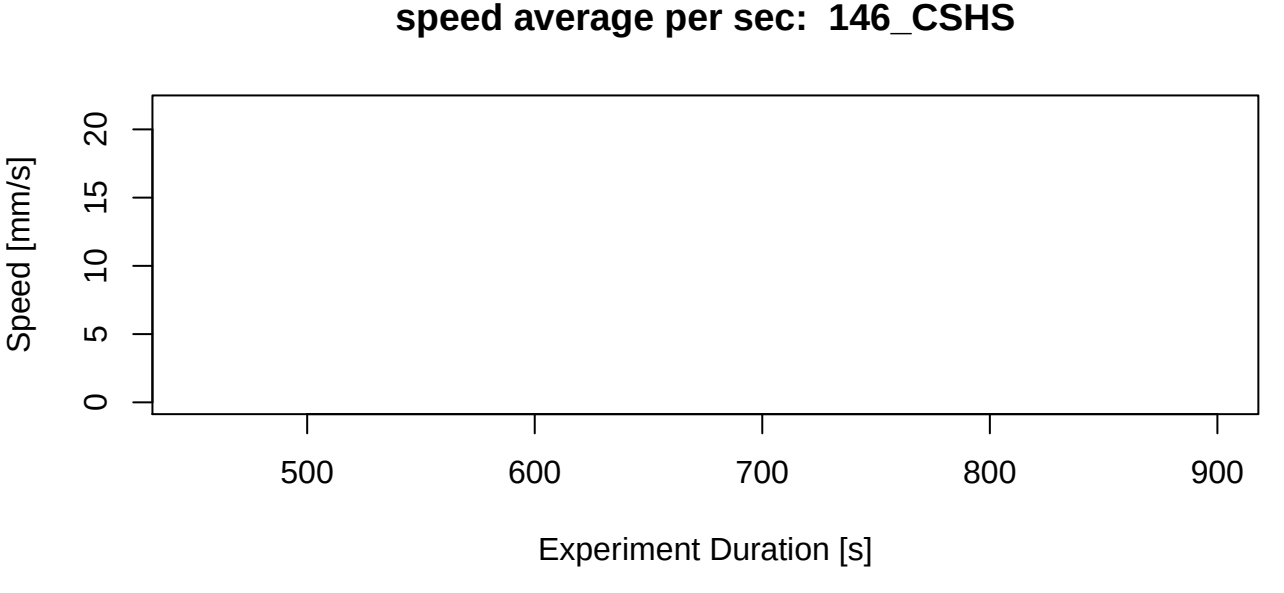

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

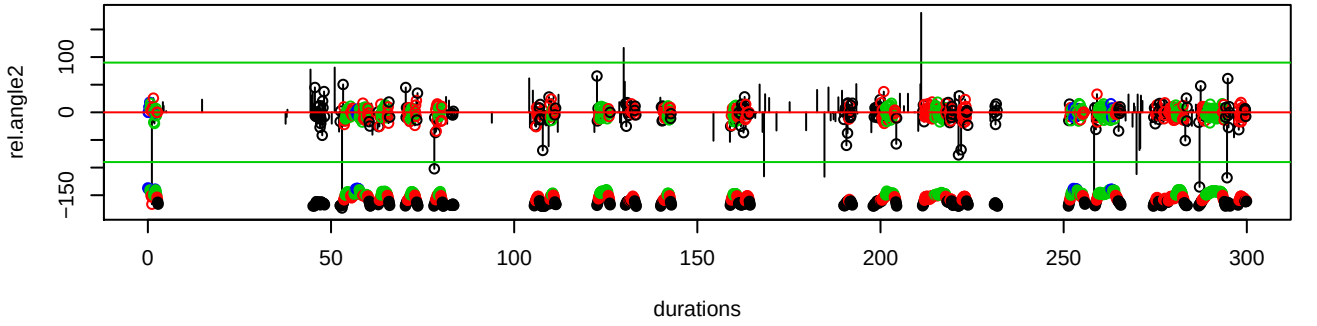

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

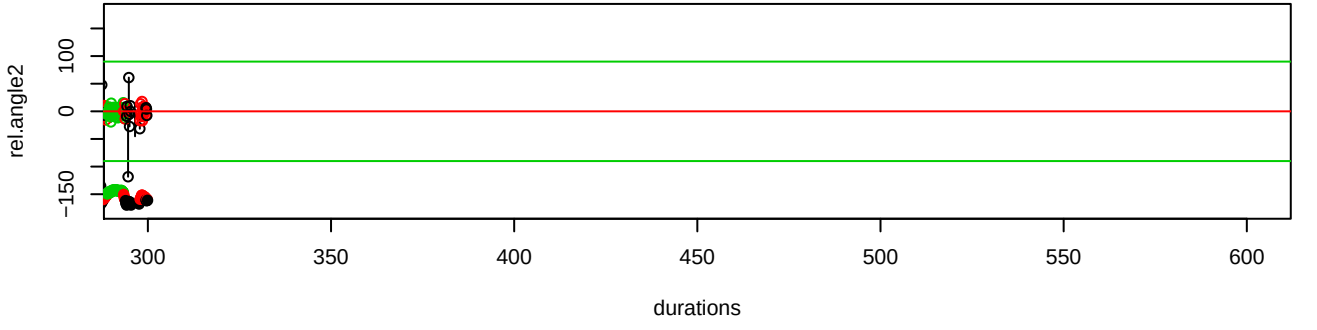

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

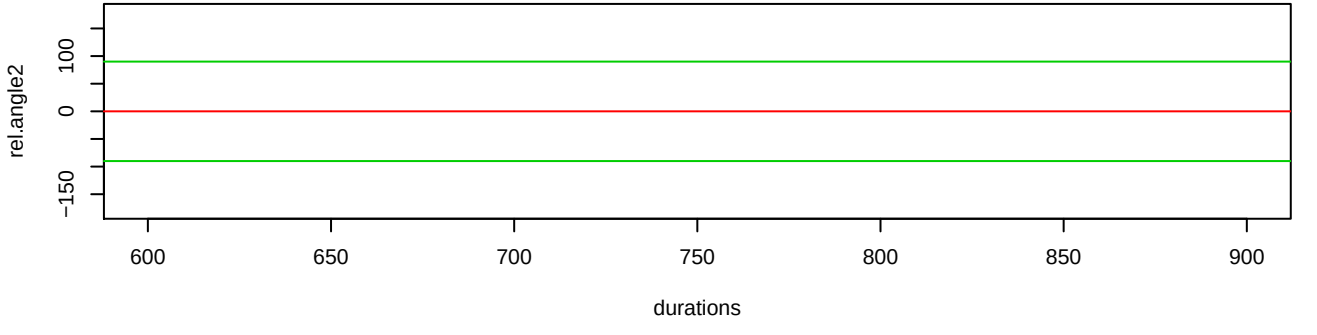

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

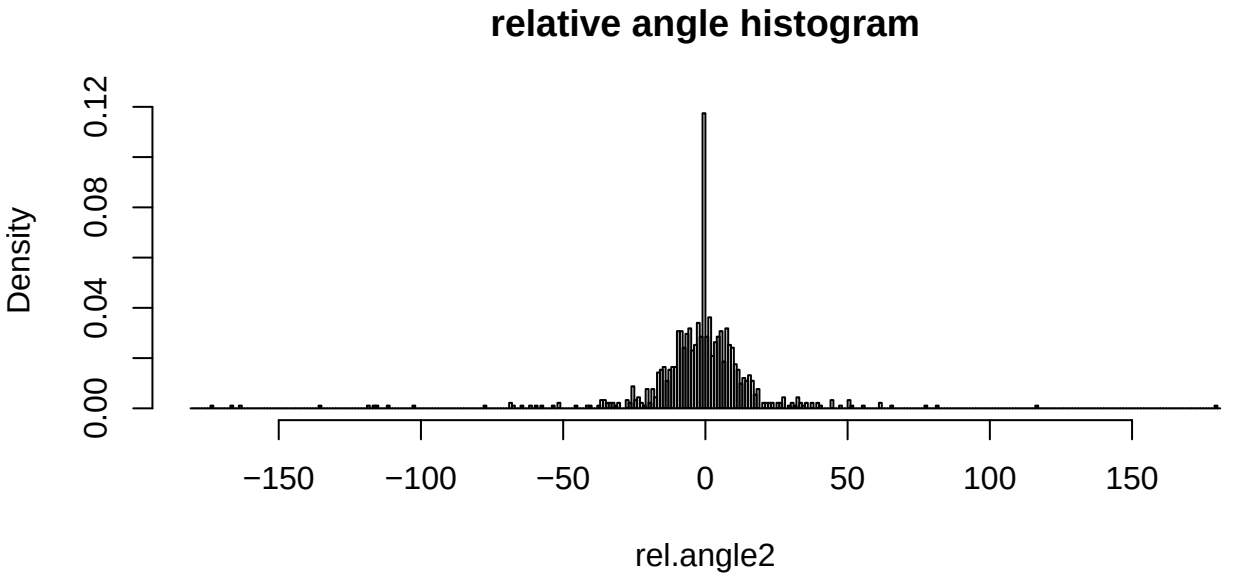

speed average per sec: 146_CSHS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

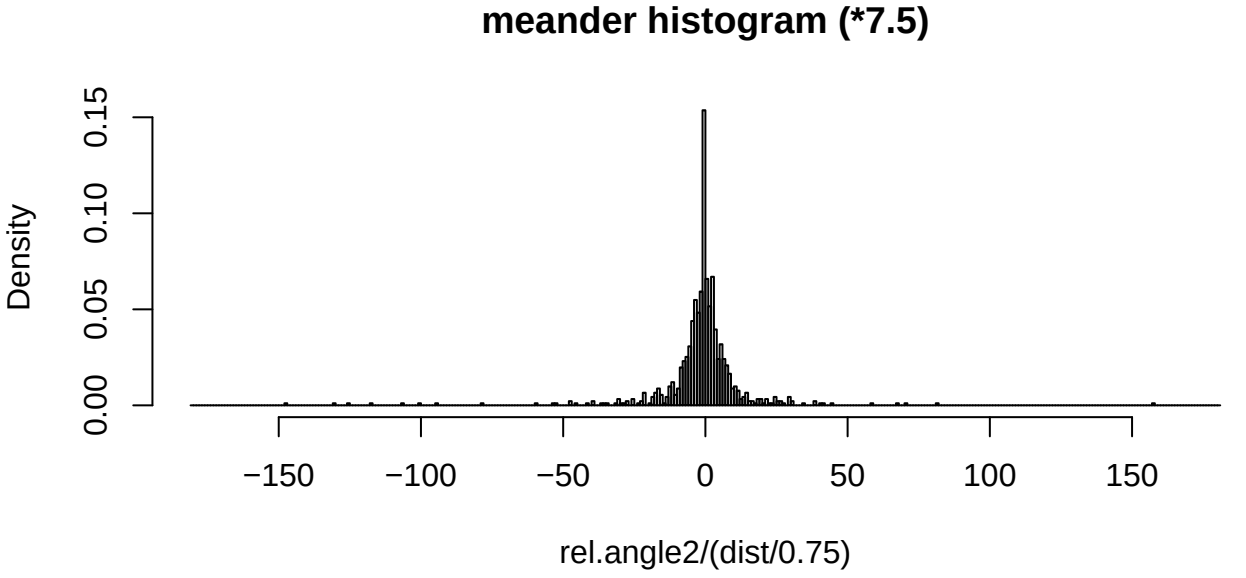

speed average per sec: 146_CSHS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

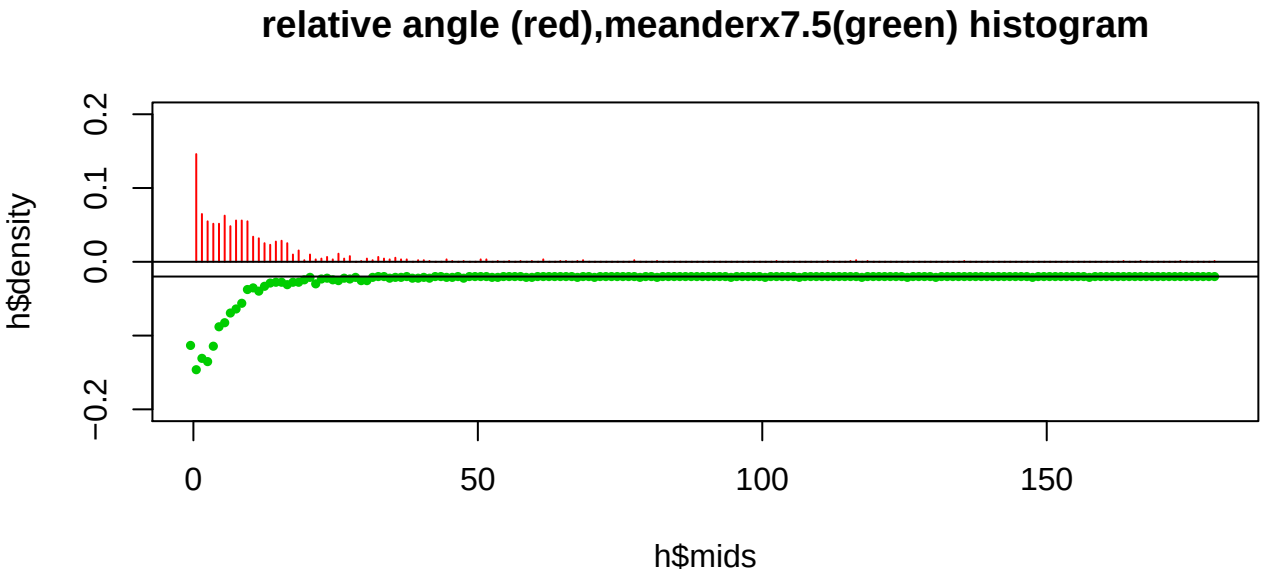

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

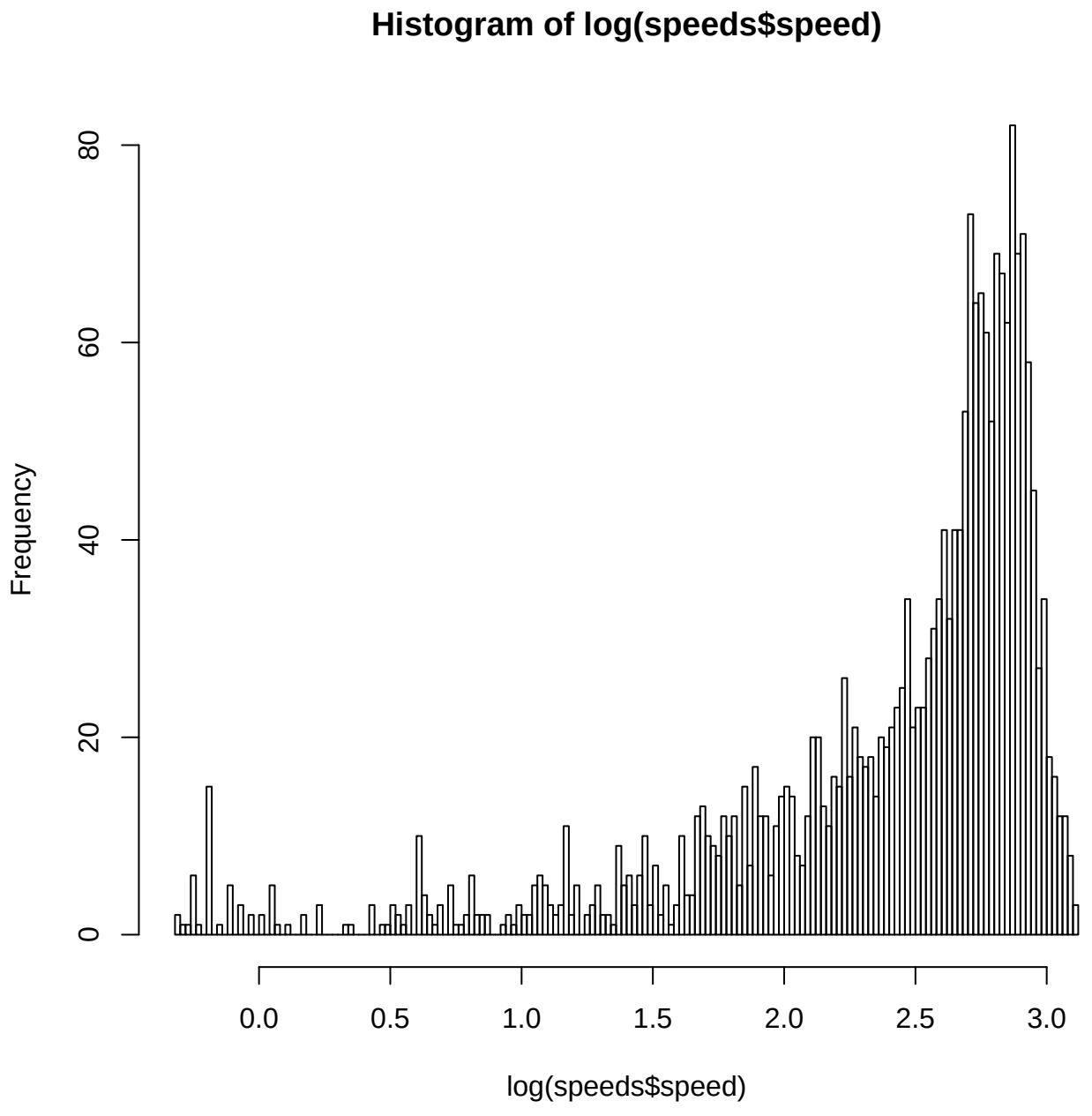

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

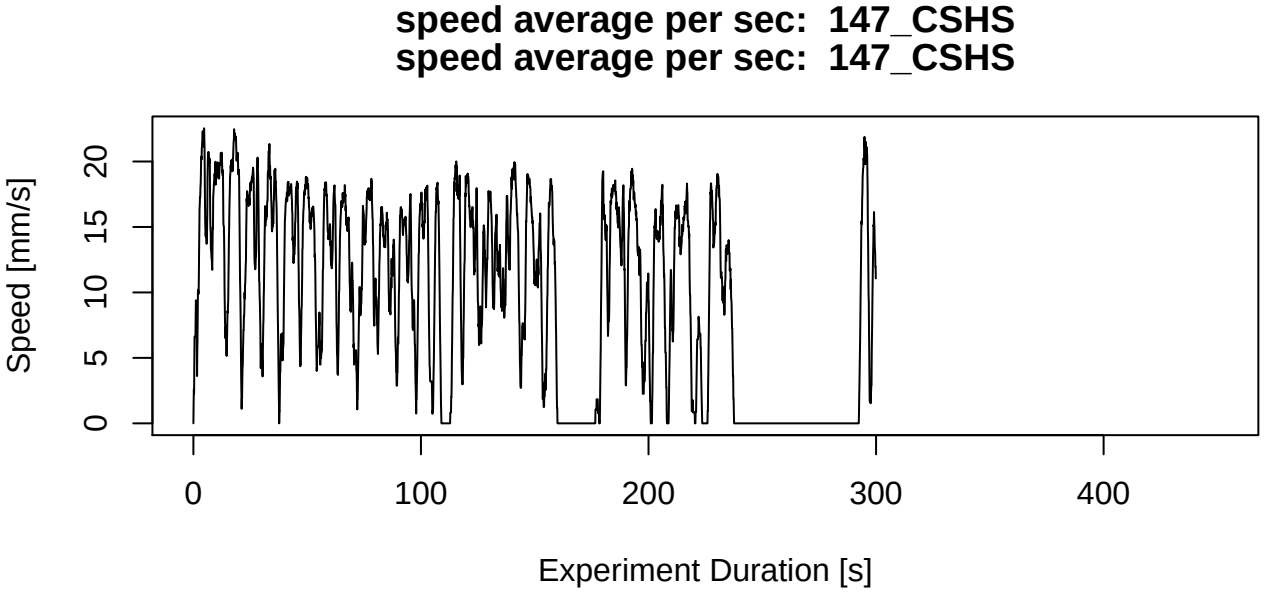

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

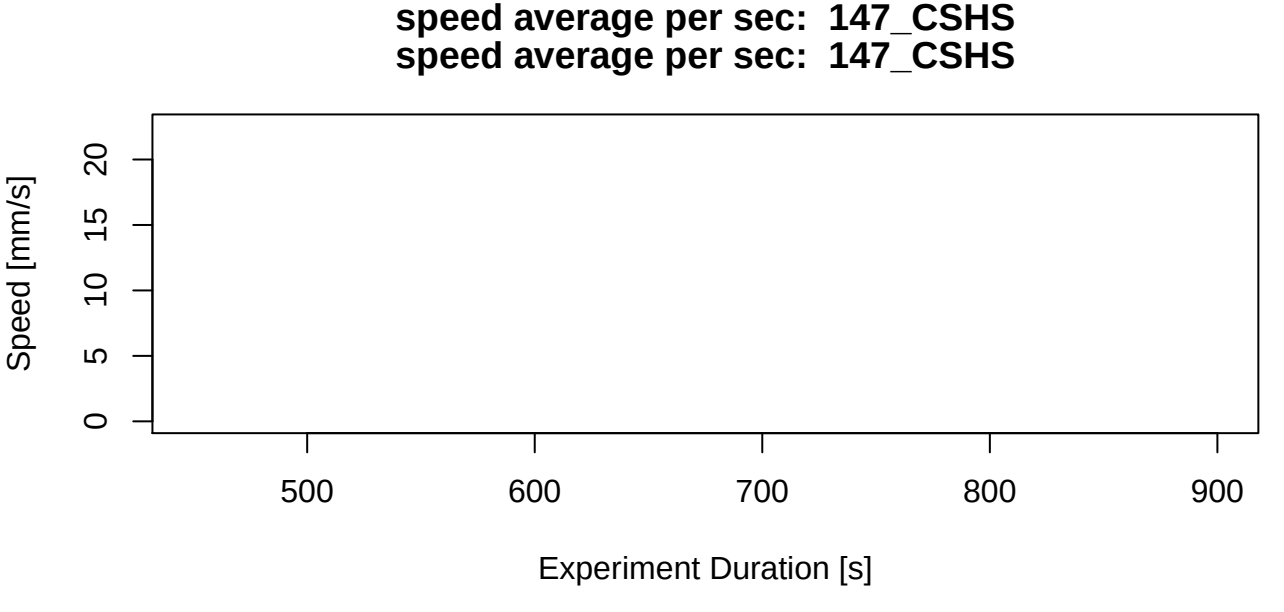

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

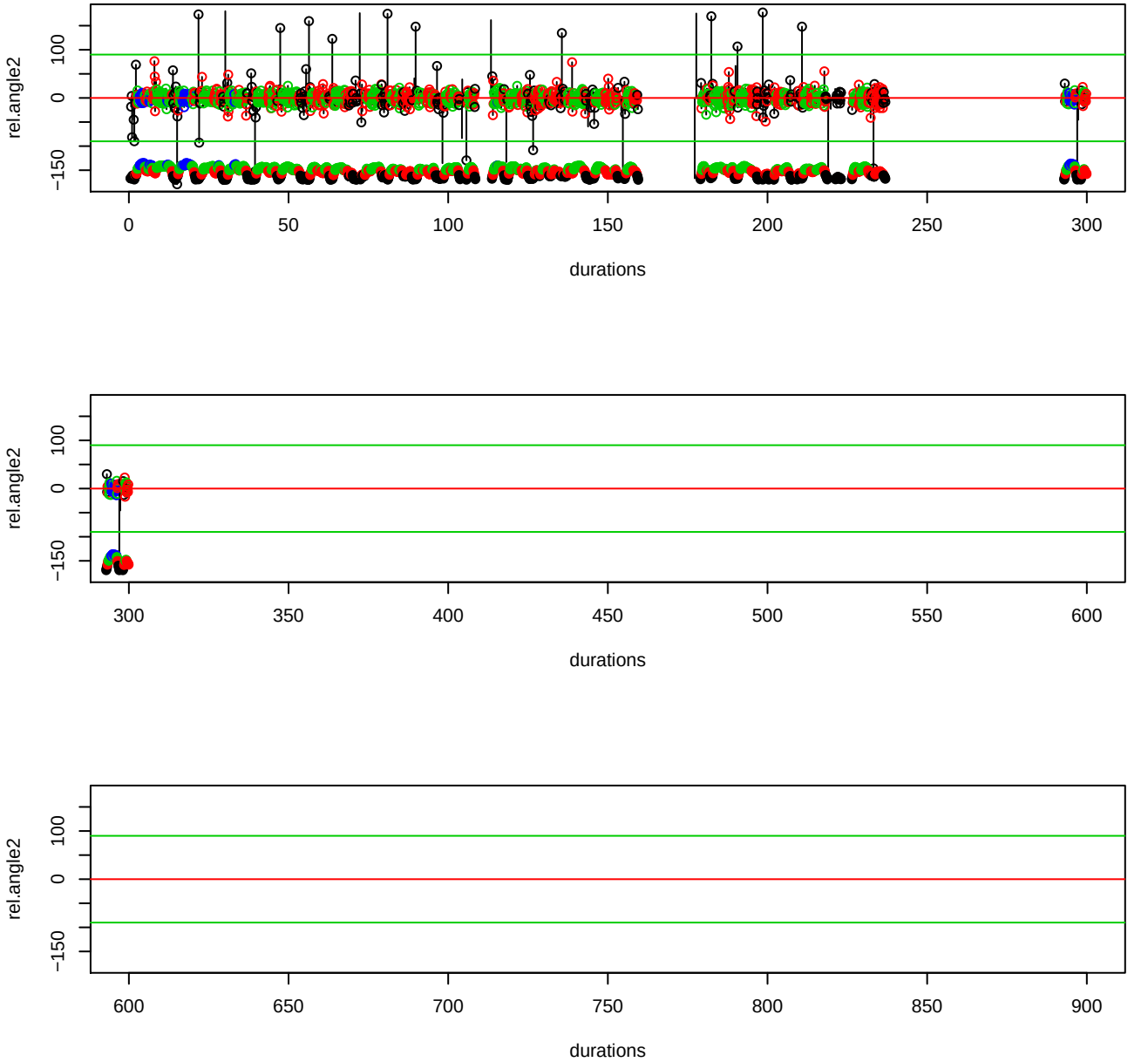

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

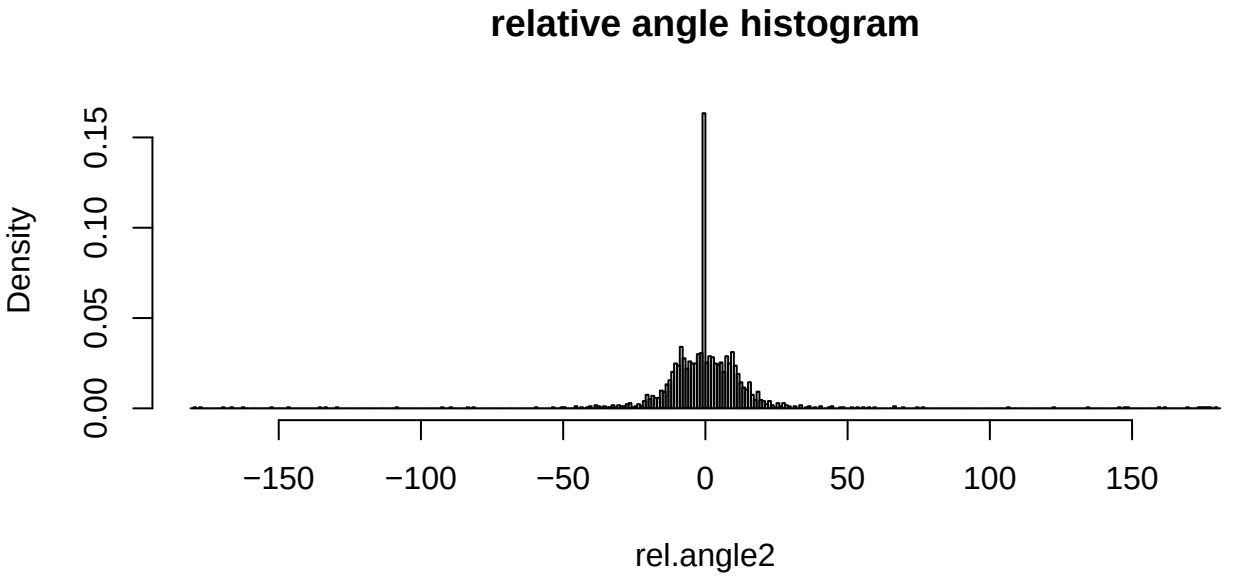

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

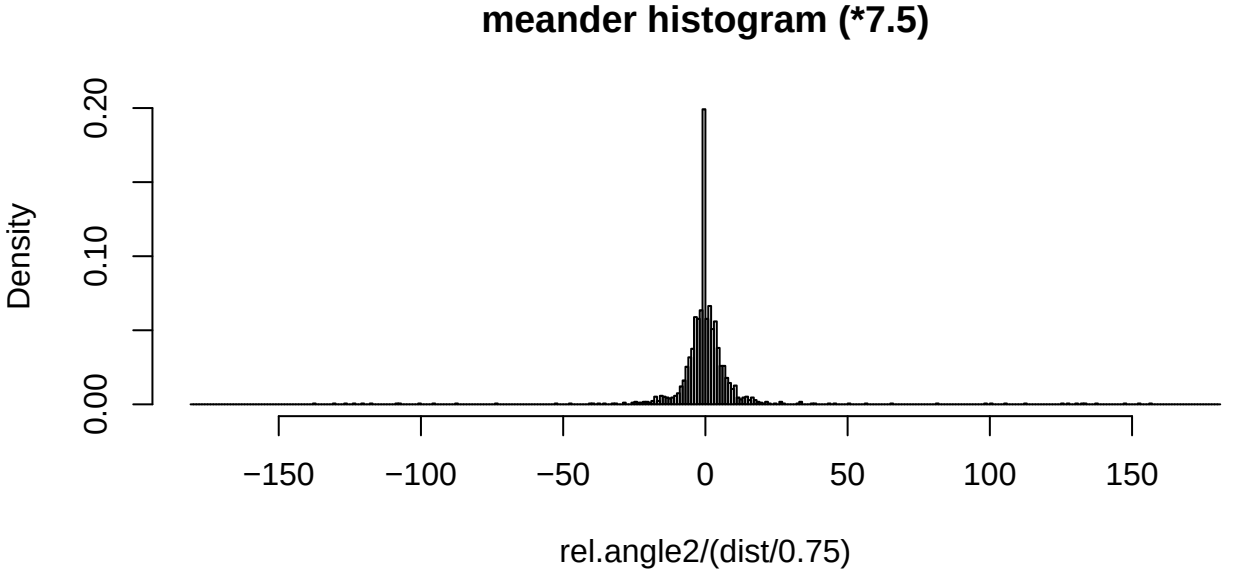

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

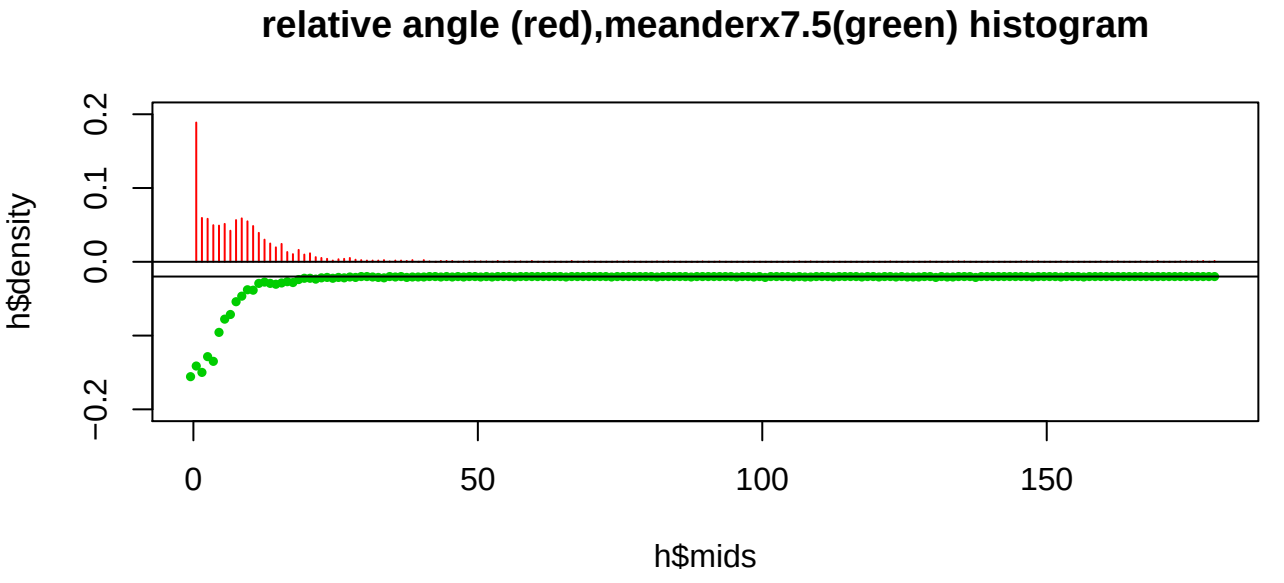

speed average per sec: 147_CSHS
speed average per sec: 147_CSHS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

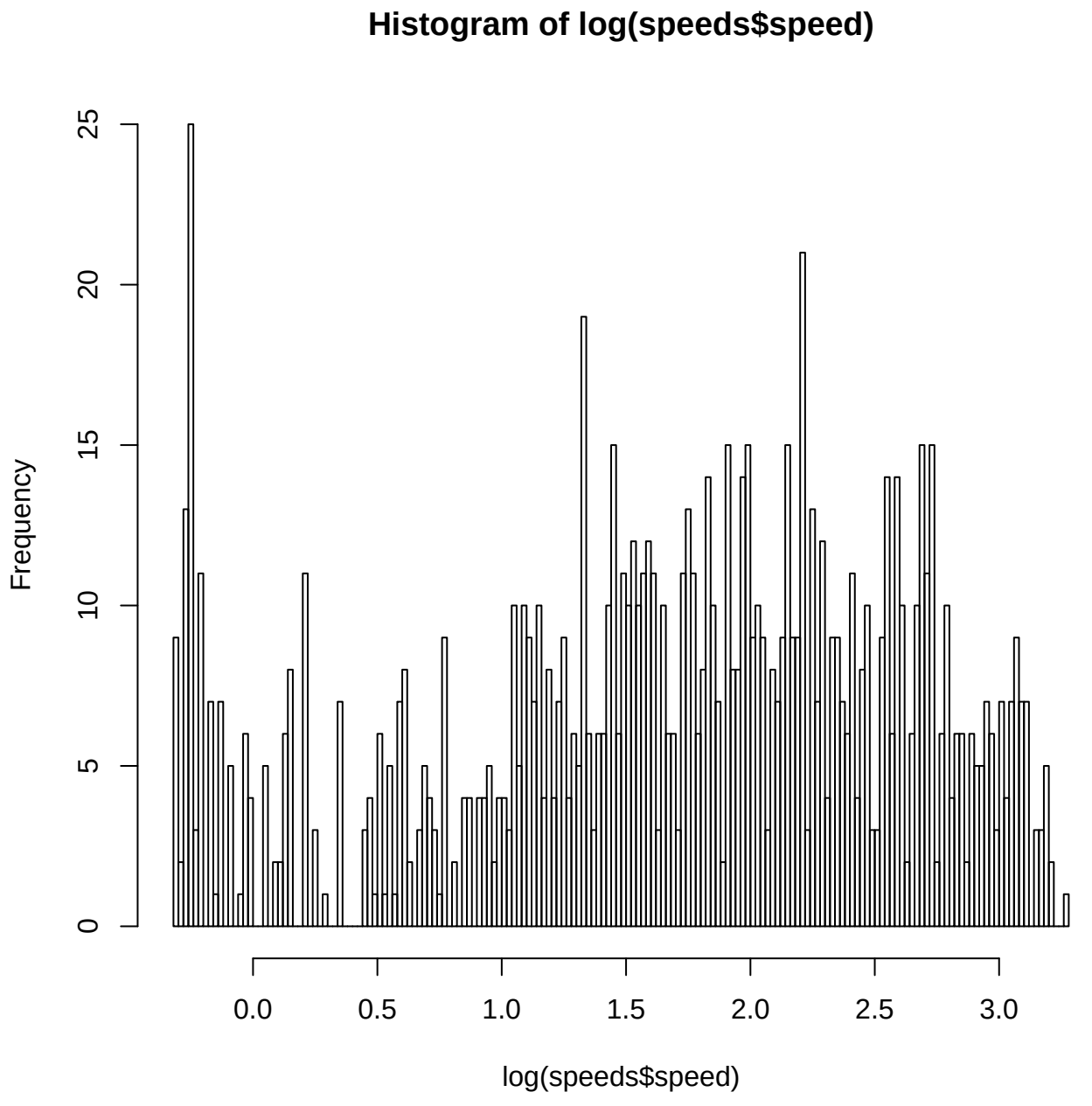

speed average per sec: 147_CSHS
speed average per sec: 147_CSHS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

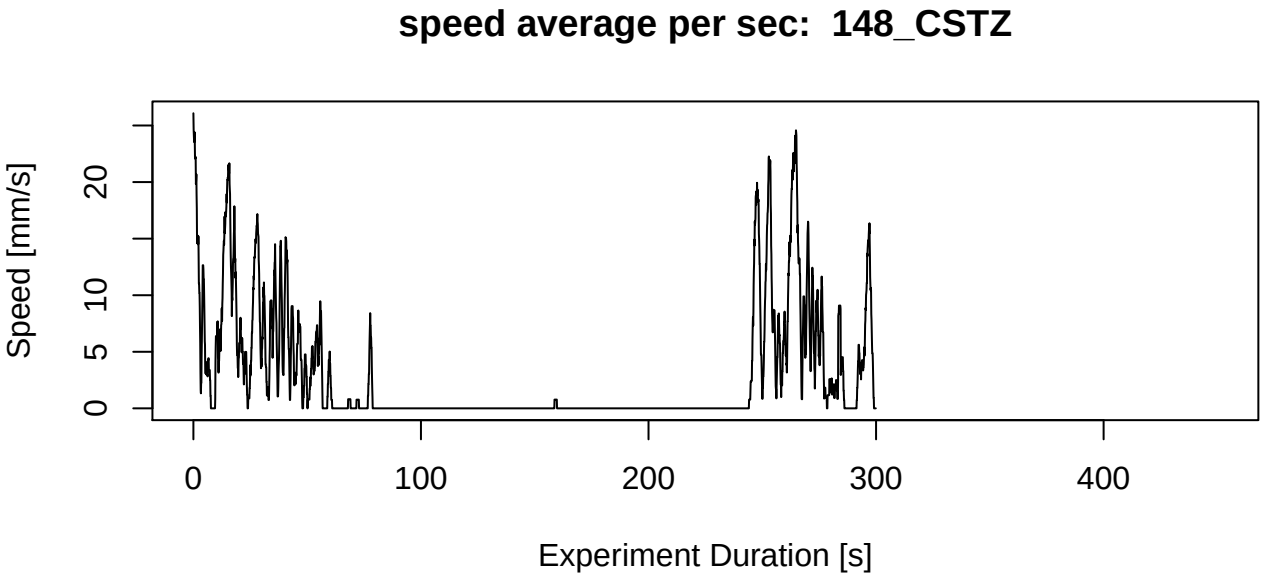

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

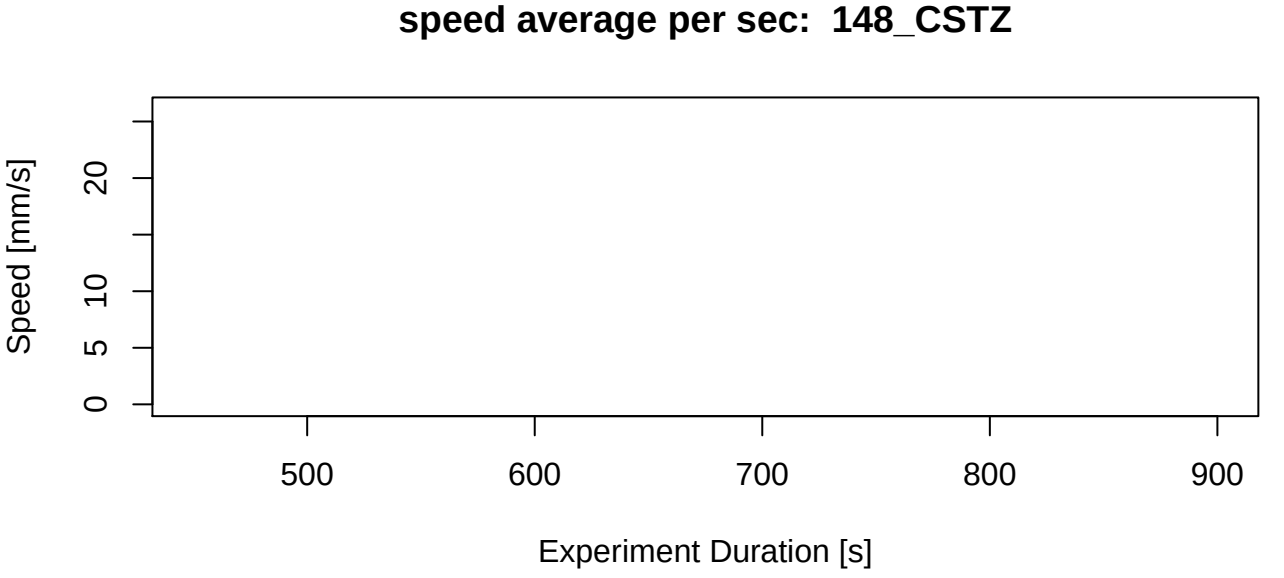

relative angle histogram
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2

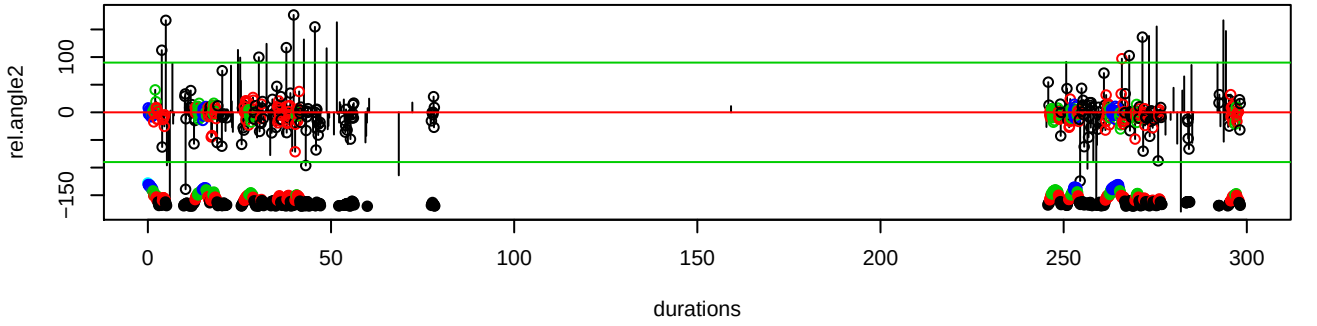

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

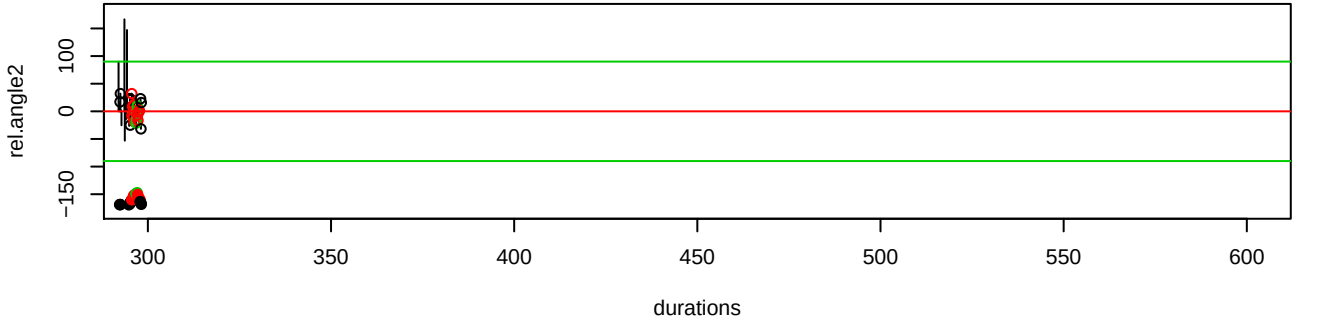

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

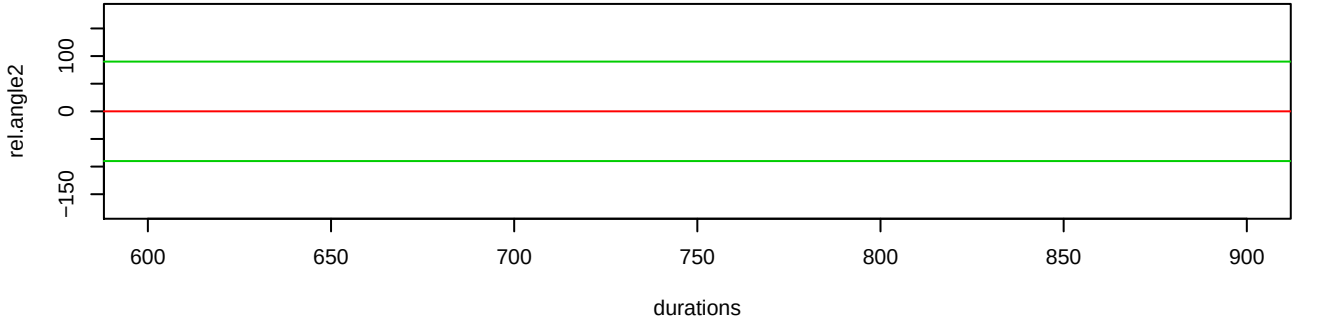

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

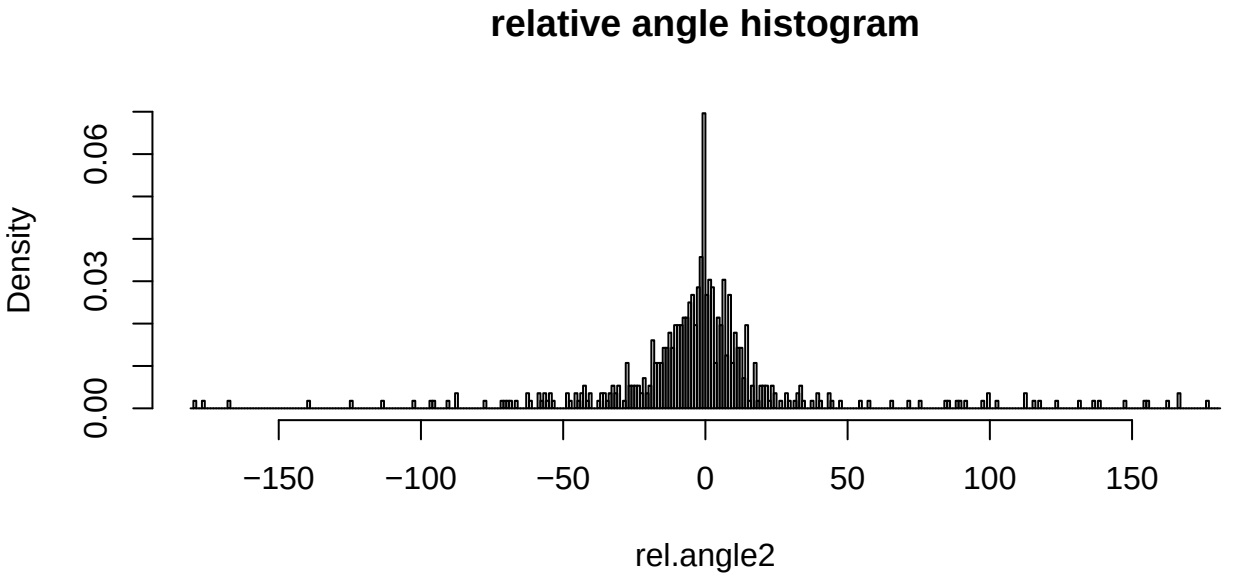

speed average per sec: 148_CSTZ
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

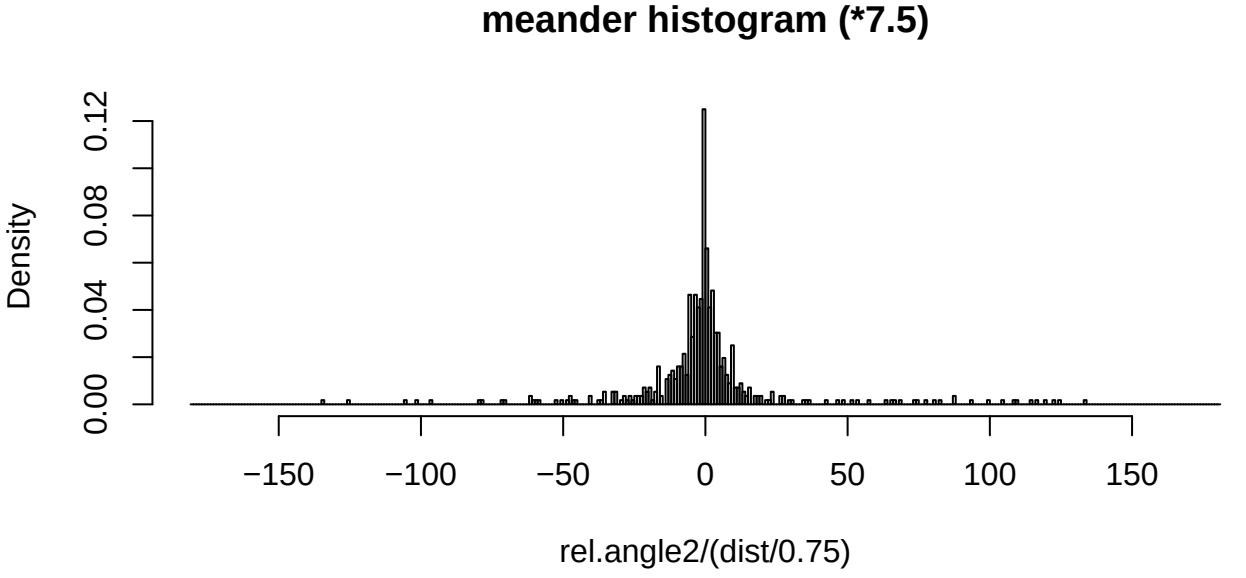

speed average per sec: 148_CSTZ
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

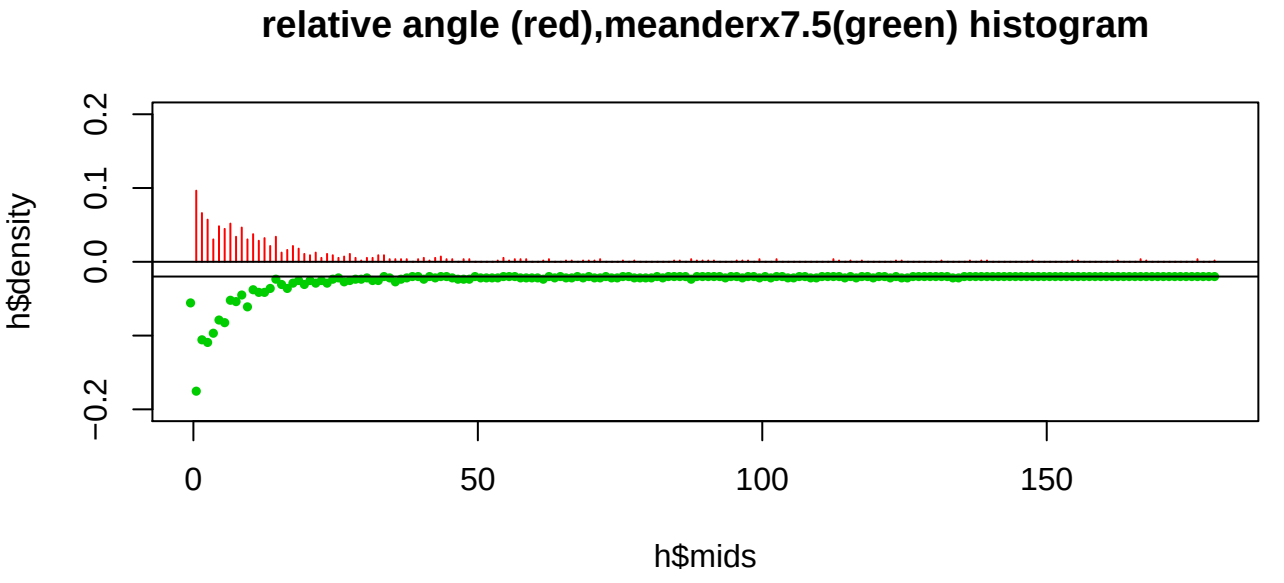

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

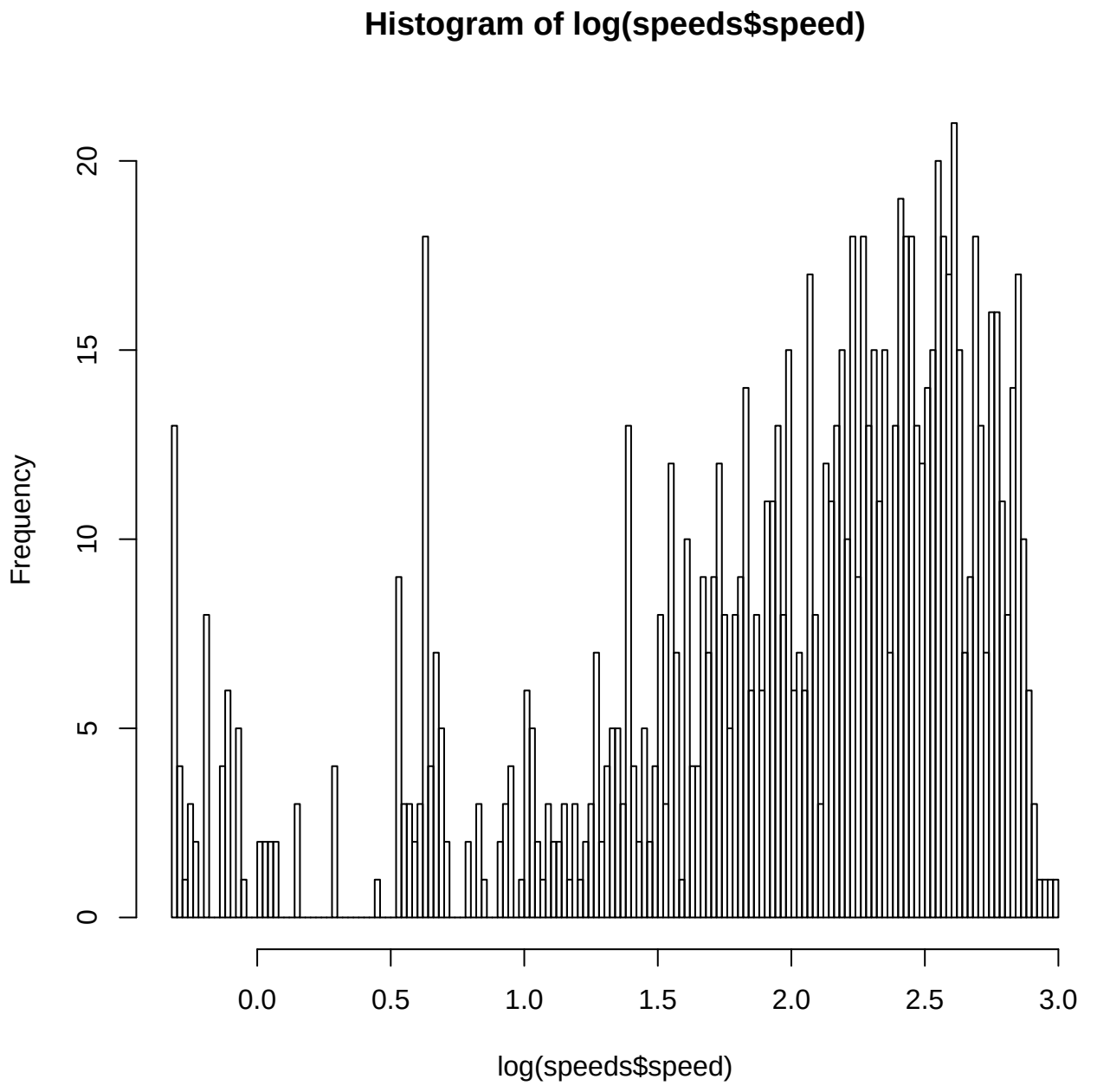

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

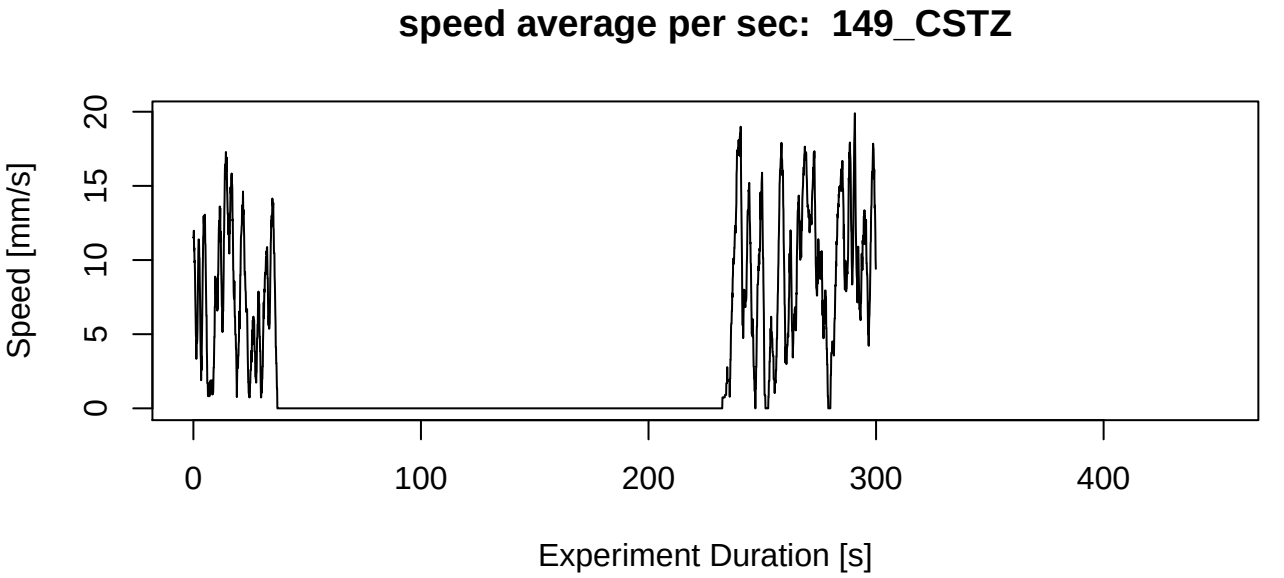

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

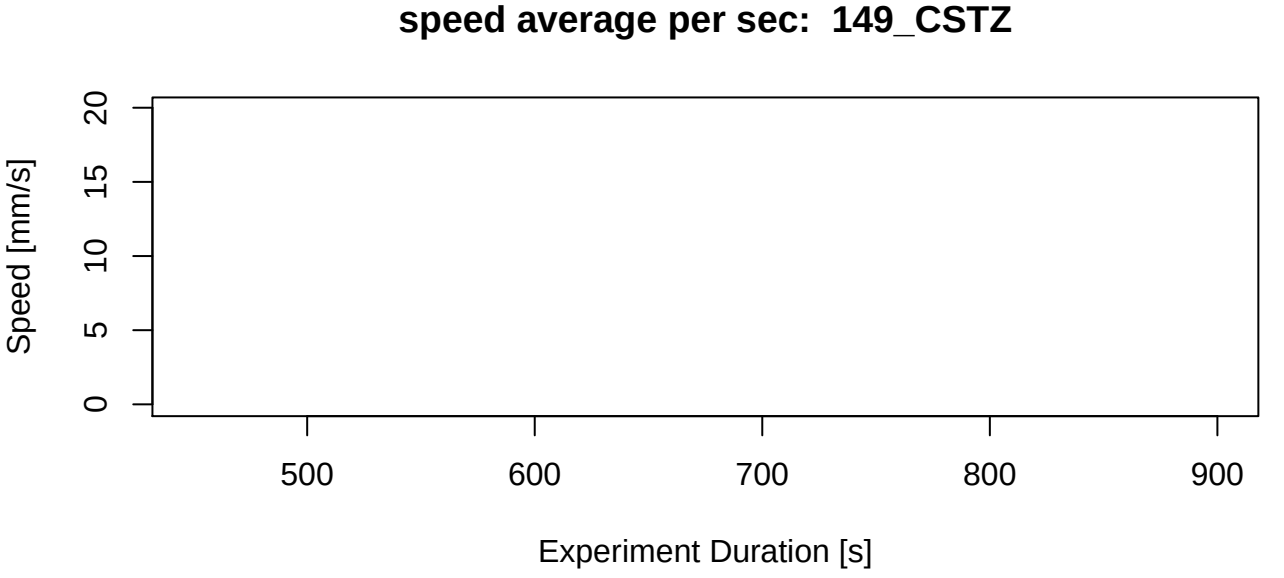

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

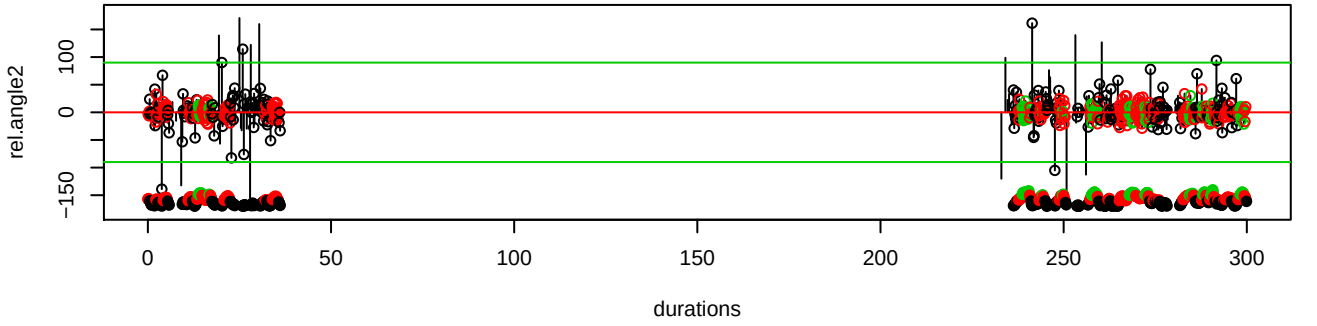

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

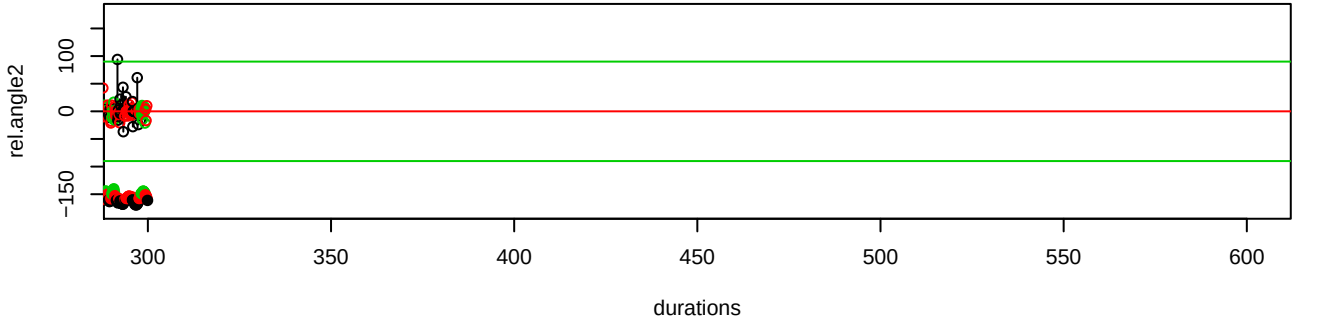

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

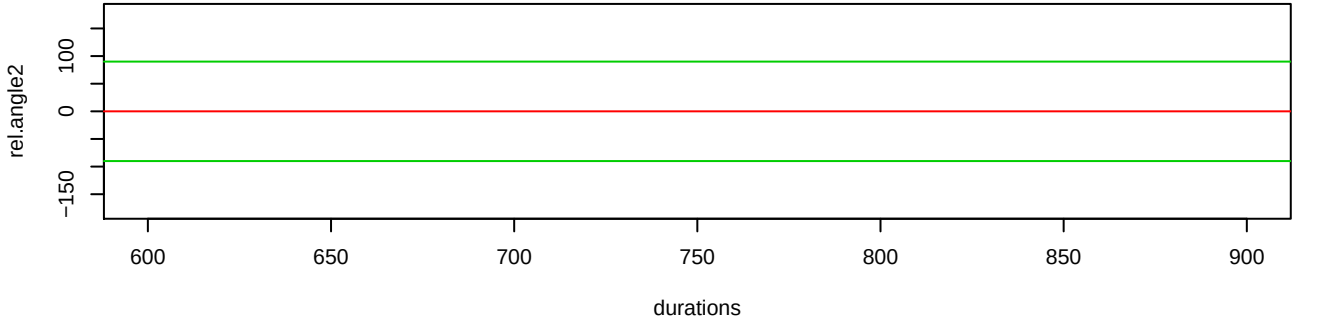

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

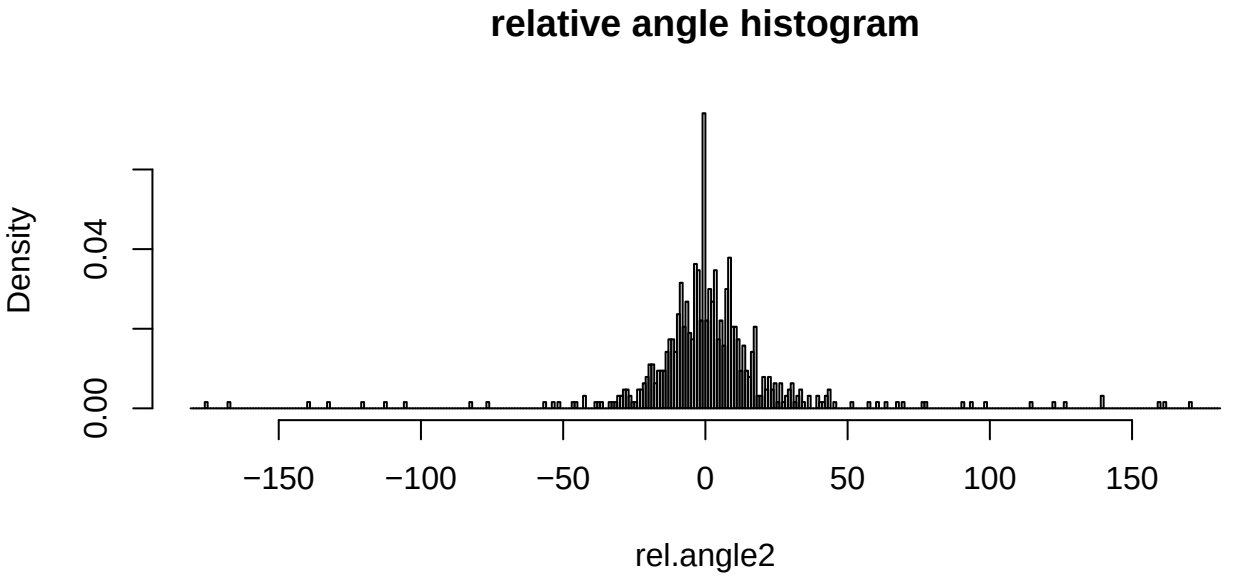

speed average per sec: 149_CSTZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

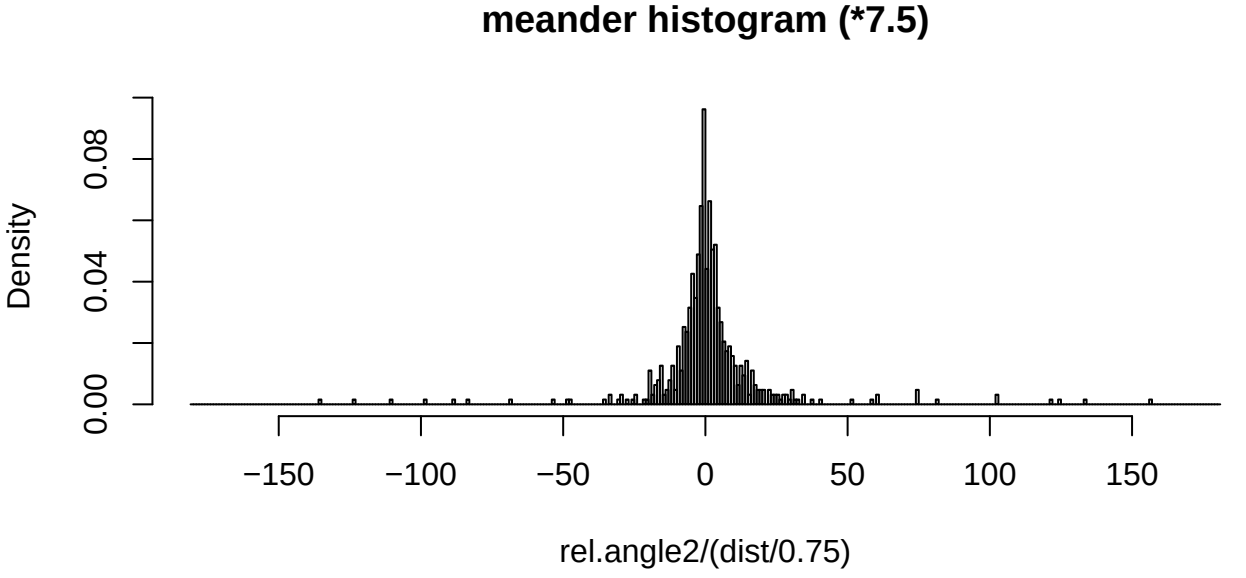

speed average per sec: 149_CSTZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

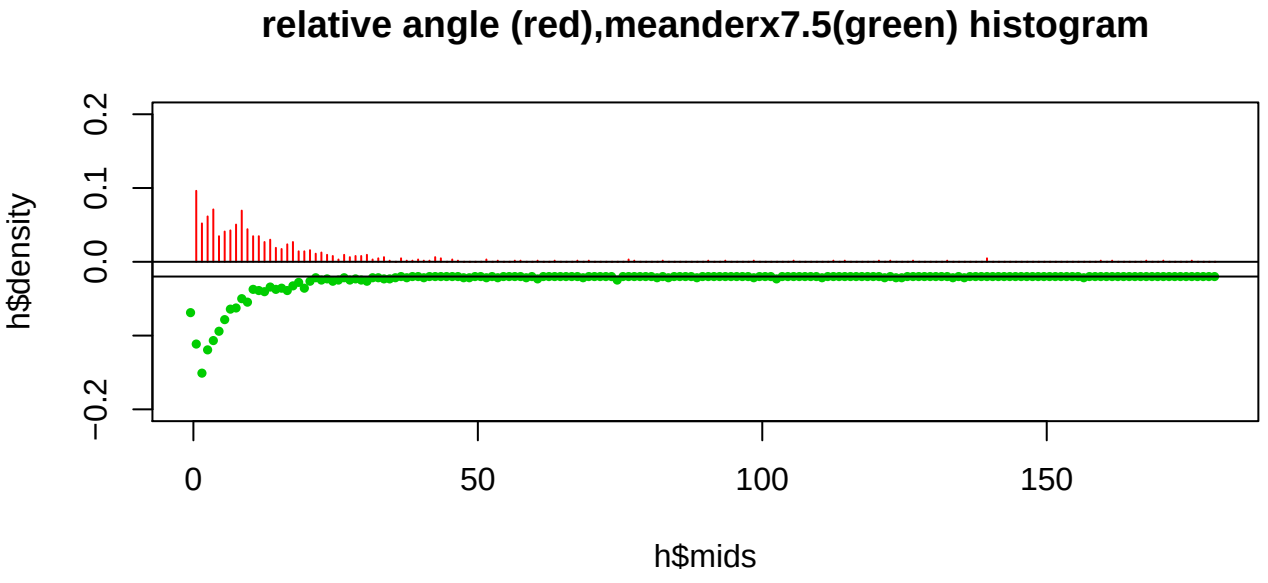

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

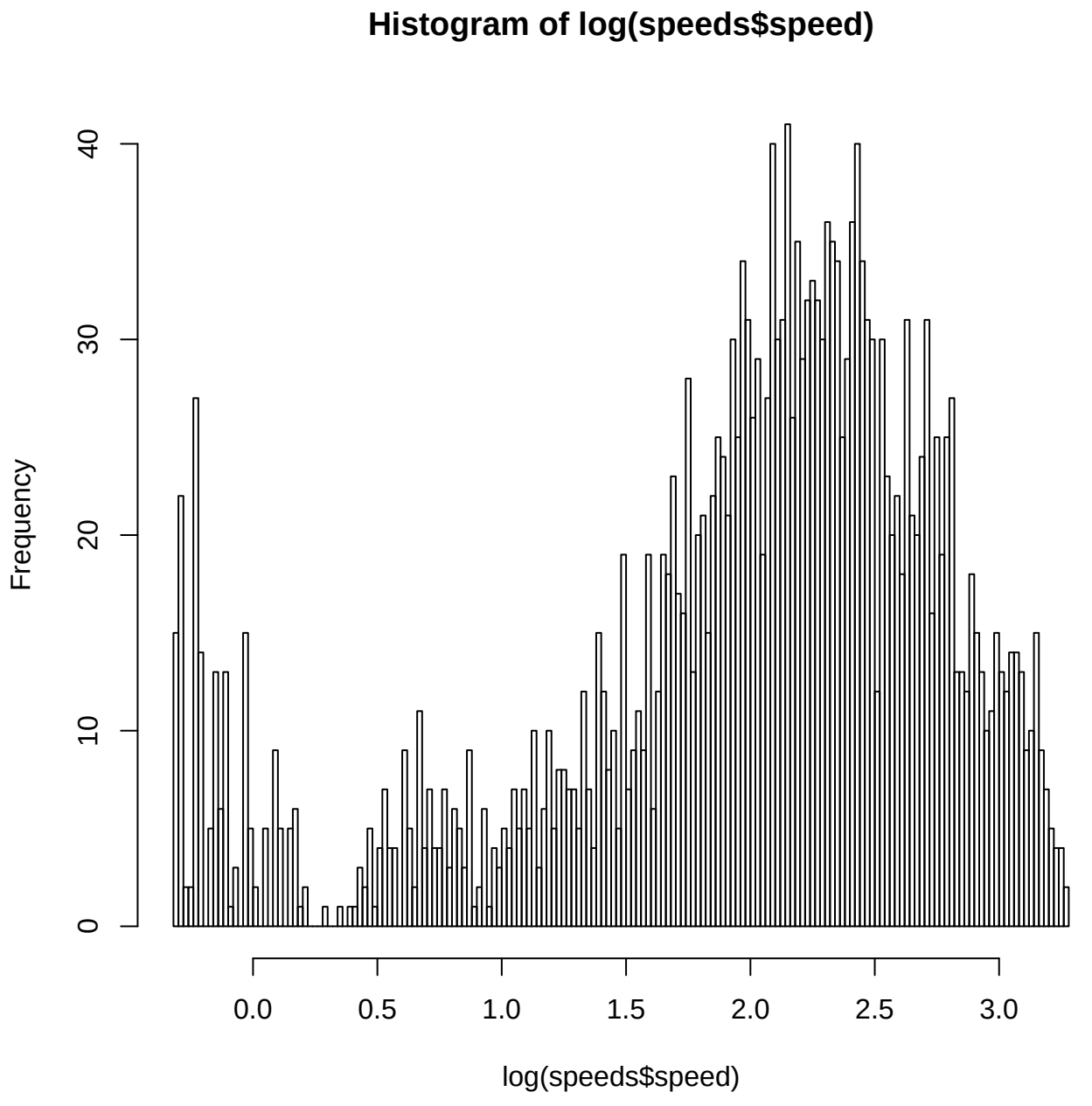

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

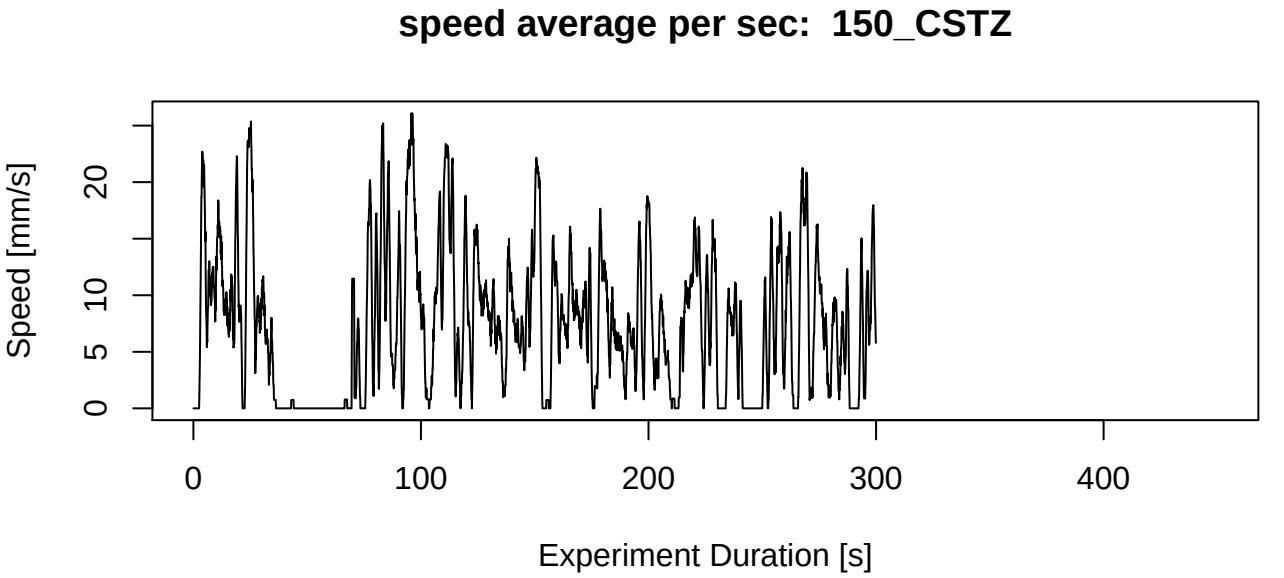

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

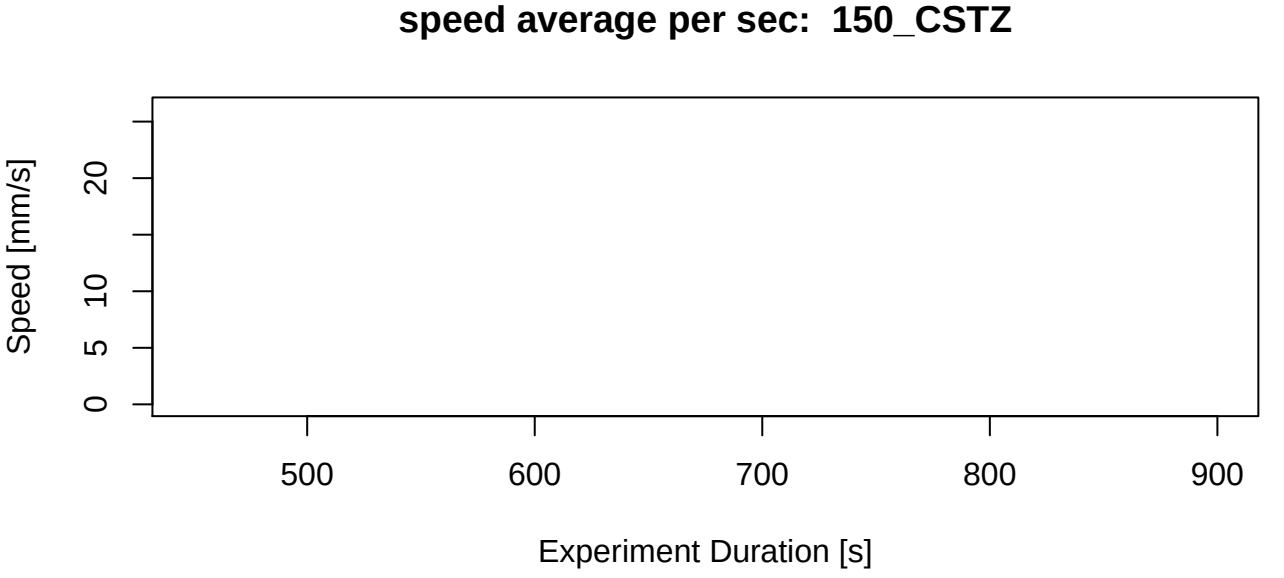

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

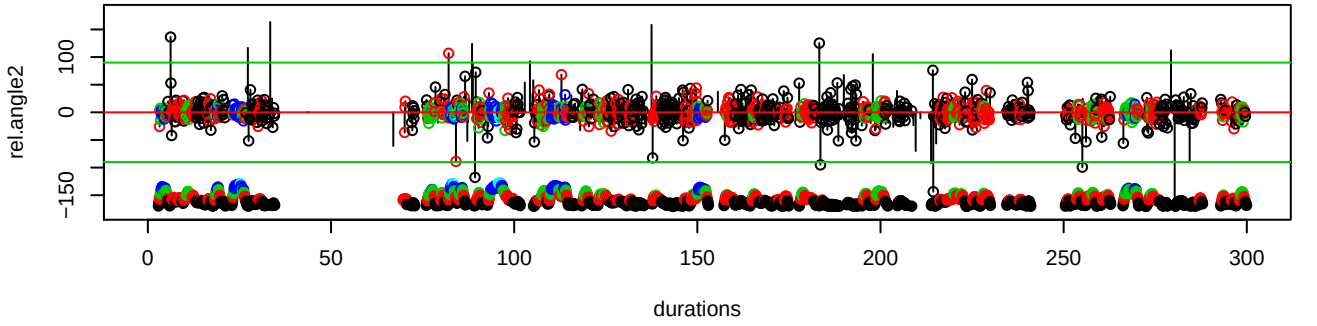

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

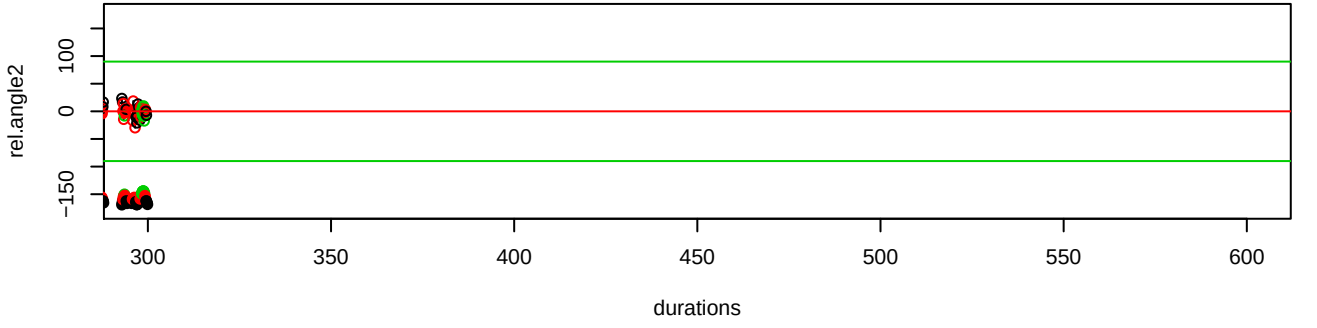

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

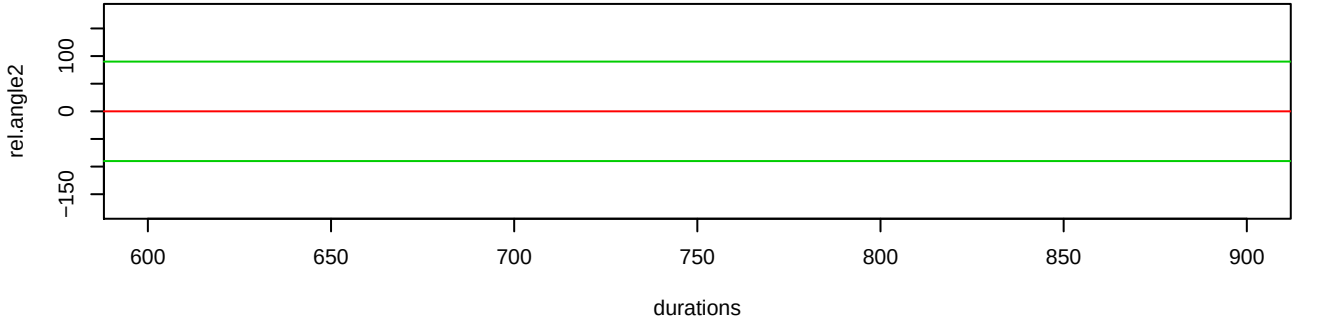

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

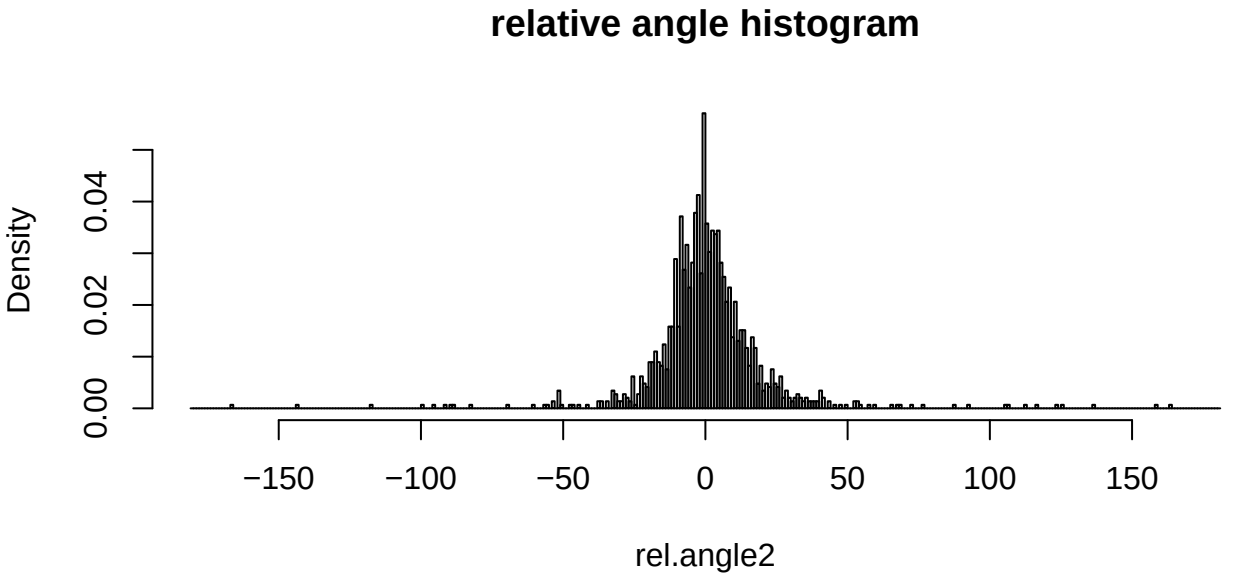

speed average per sec: 150_CSTZ
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

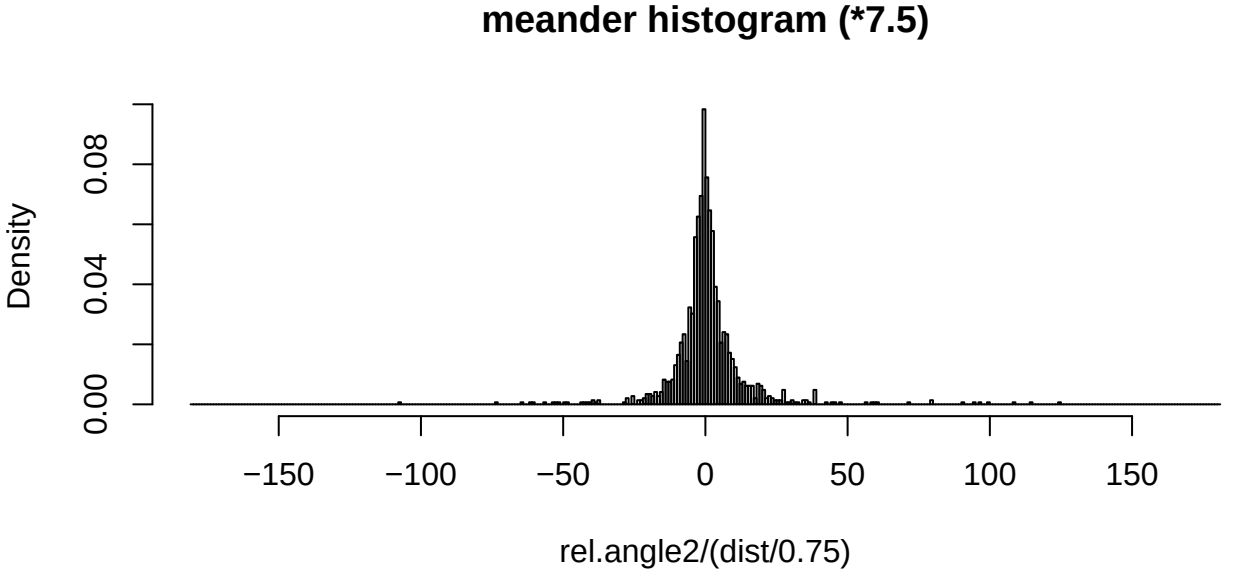

speed average per sec: 150_CSTZ
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

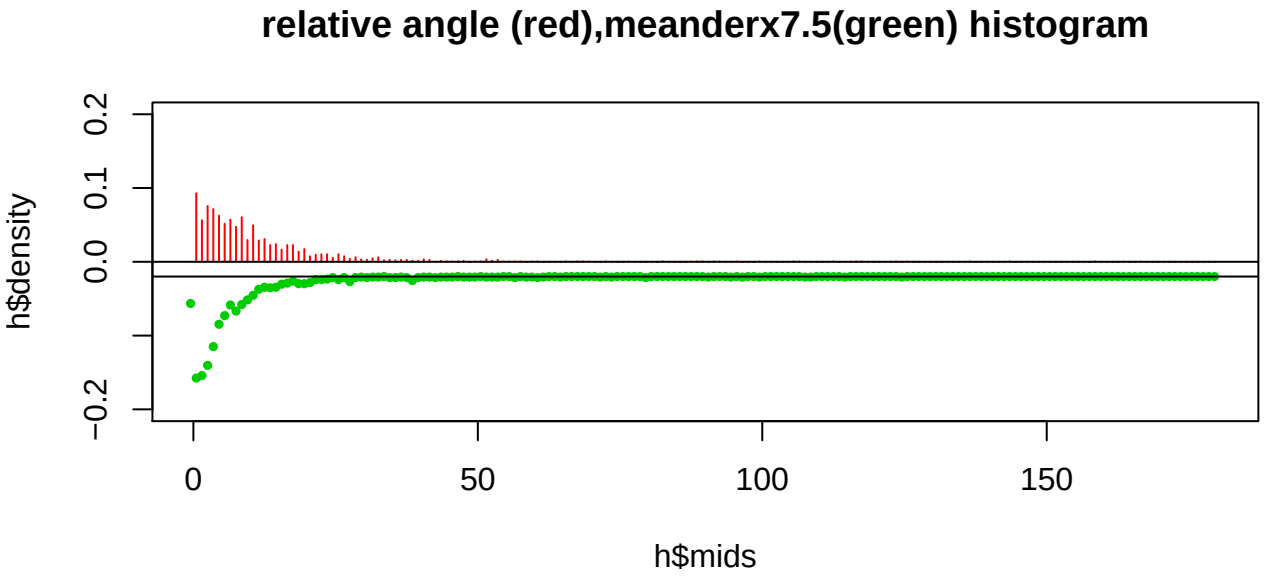

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

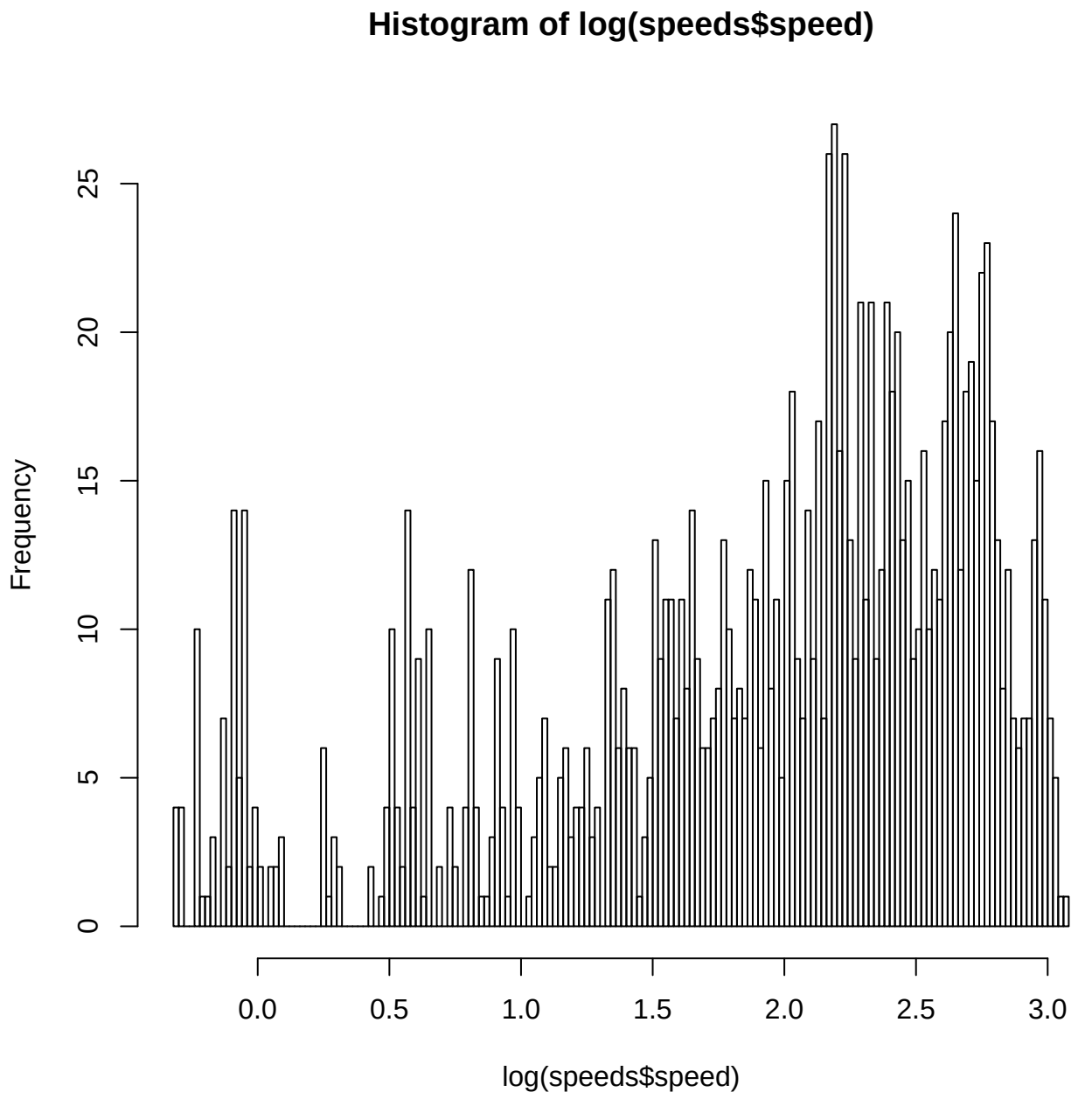

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

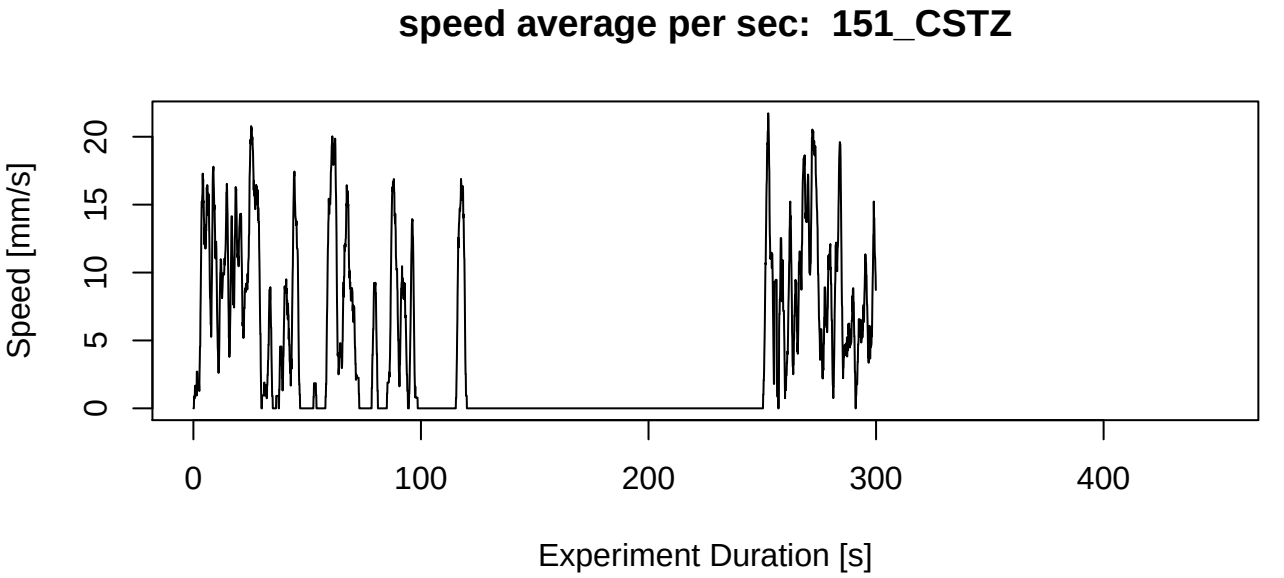

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

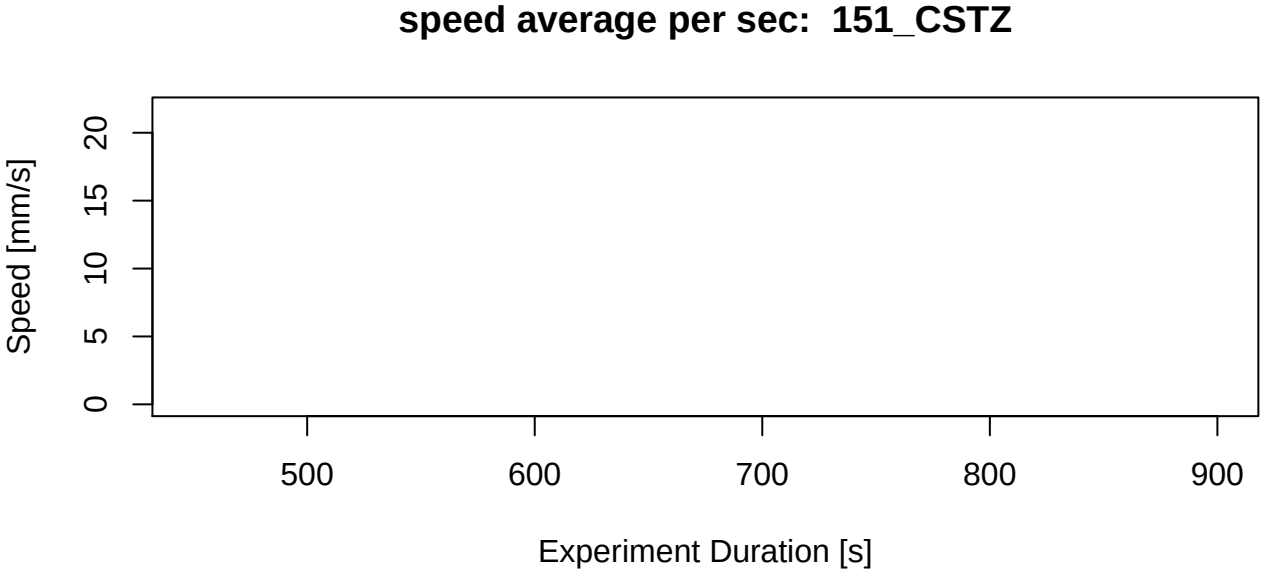

relative angle histogram
Density
0.00
0.02
0.04
−150
−100
−50
0
50
100
150
rel.angle2

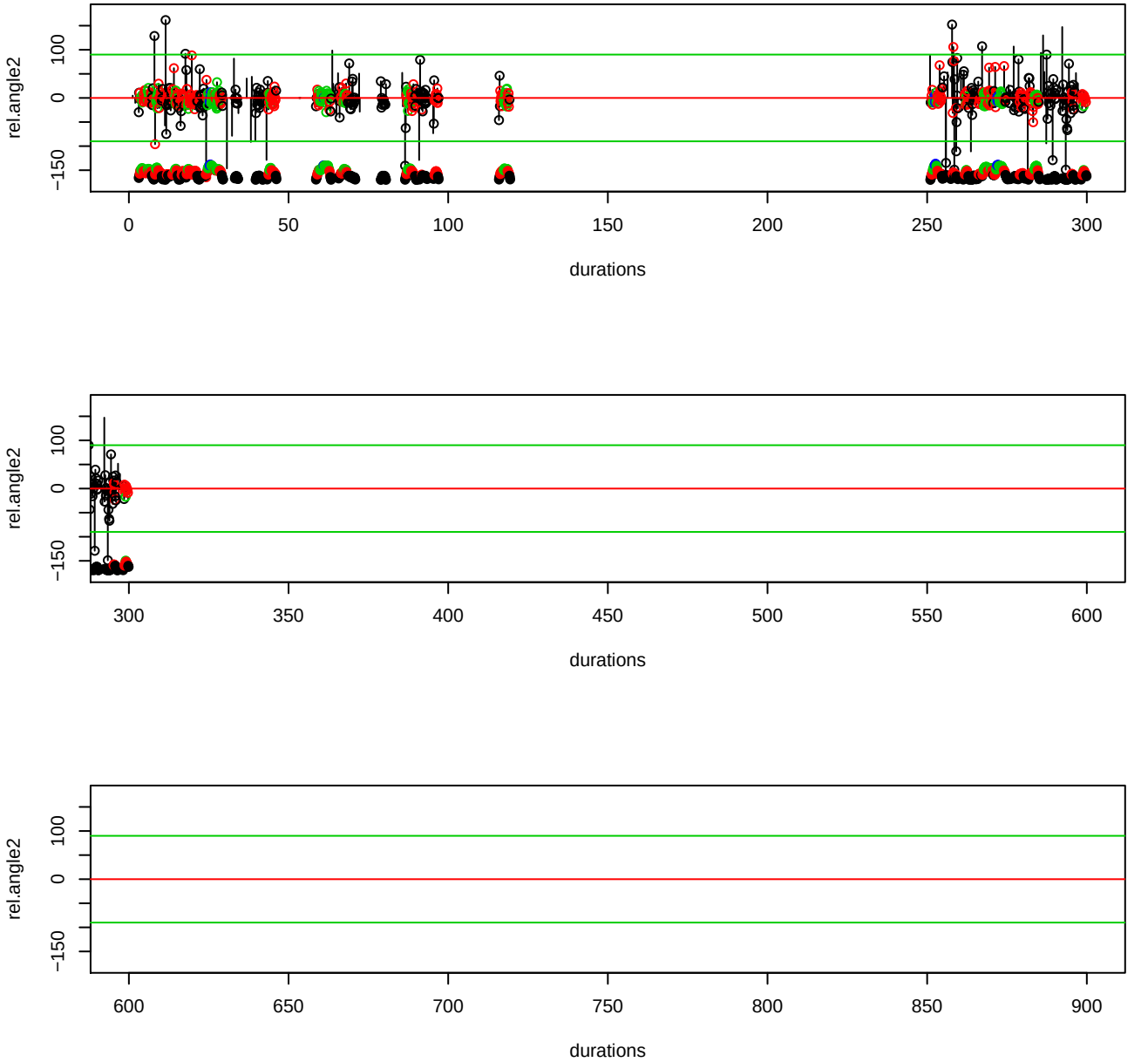

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

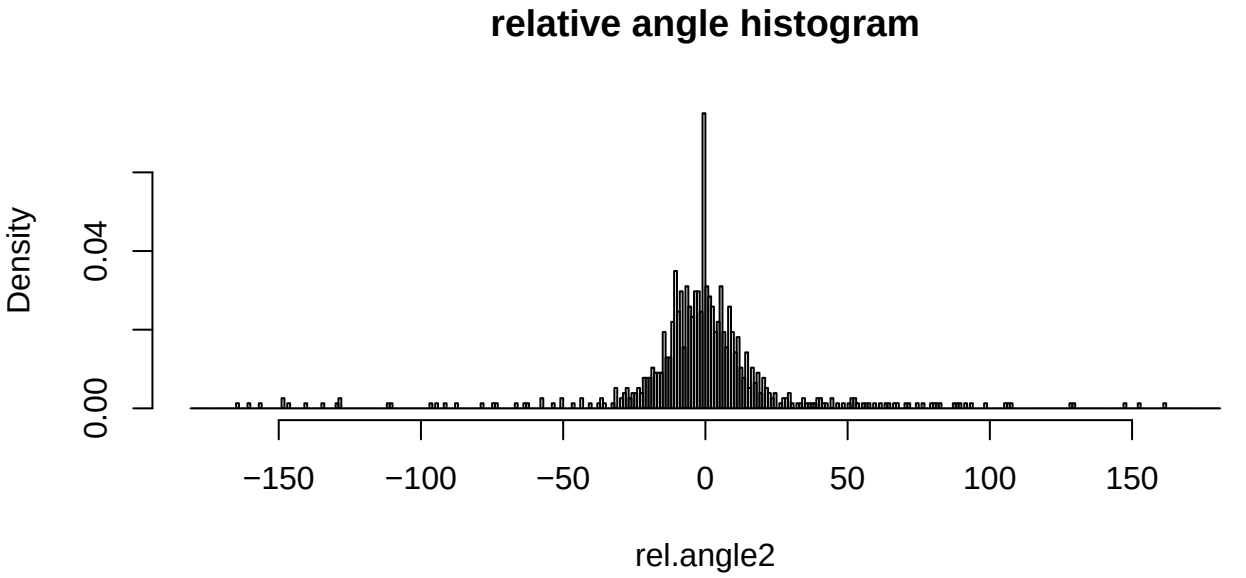

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

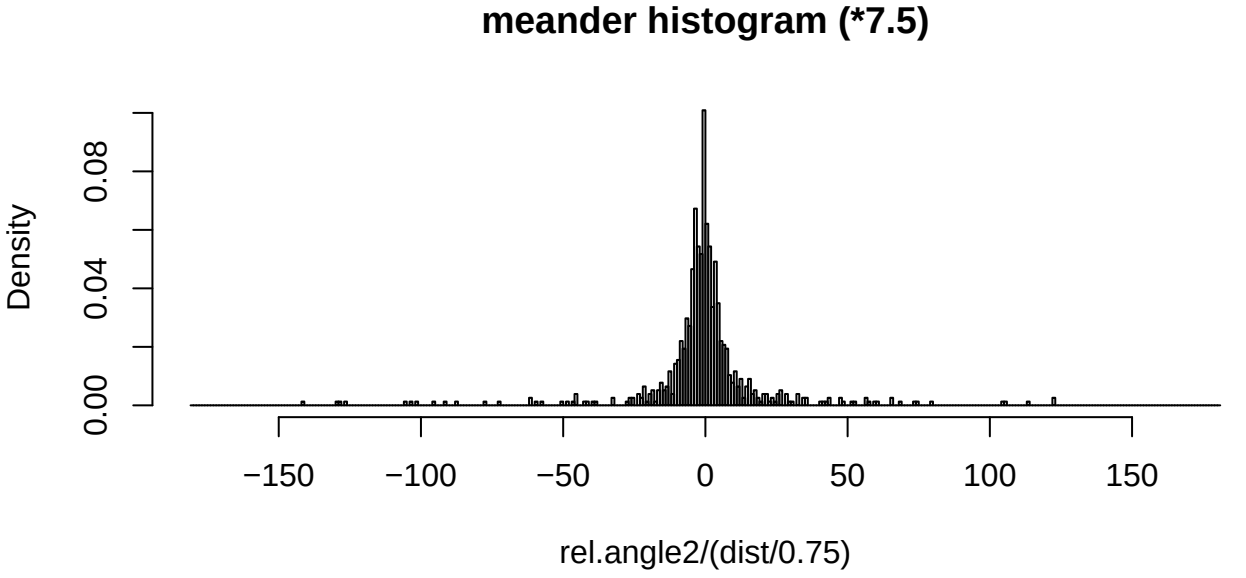

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

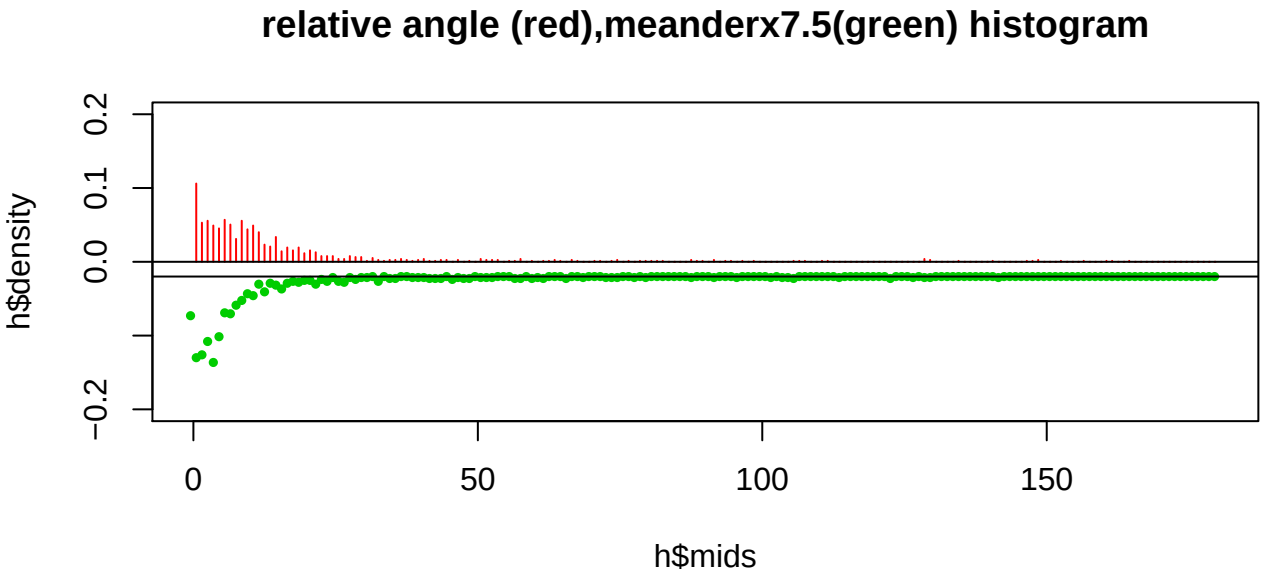

speed average per sec: 151_CSTZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

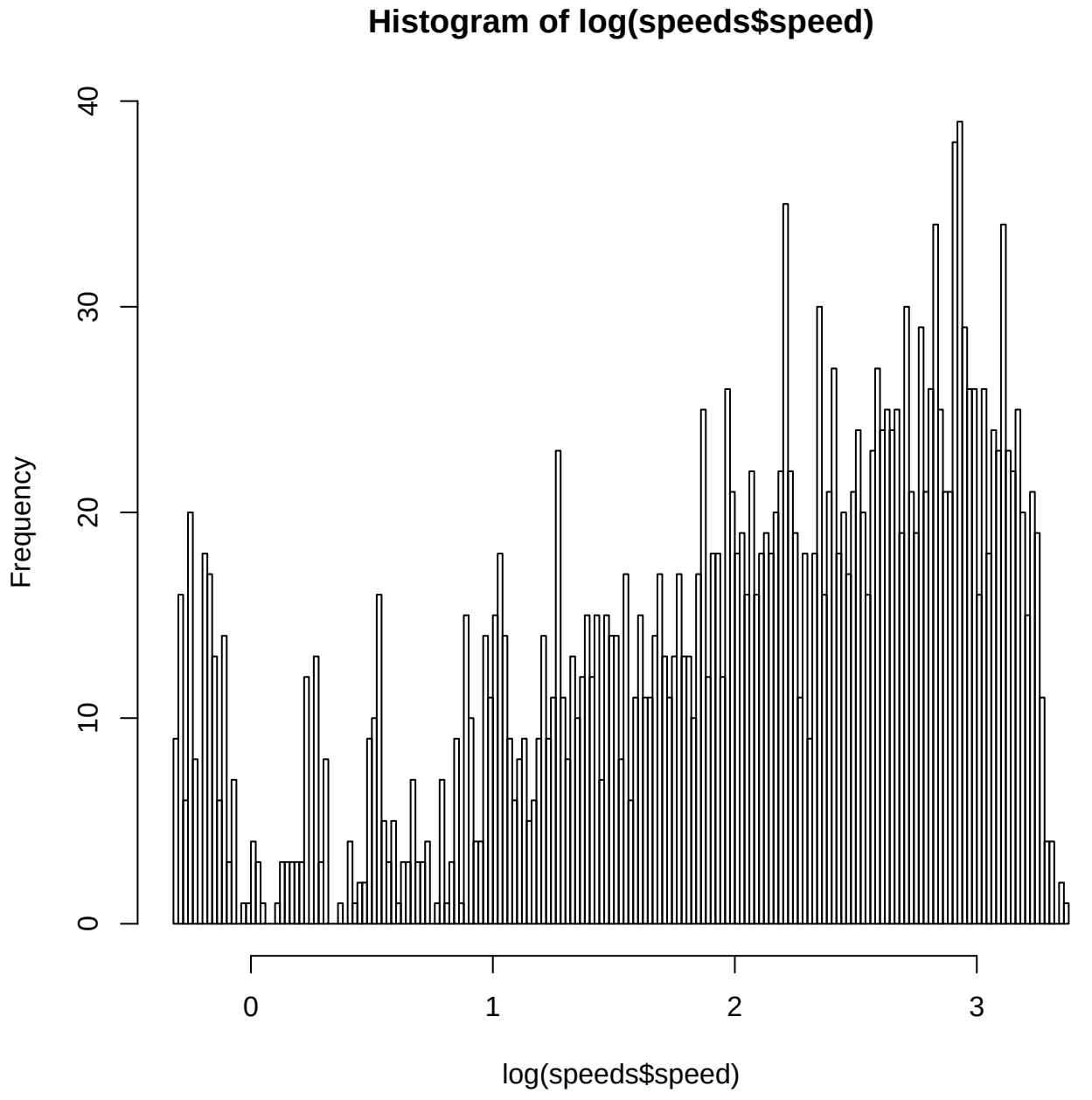

speed average per sec: 151_CSTZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

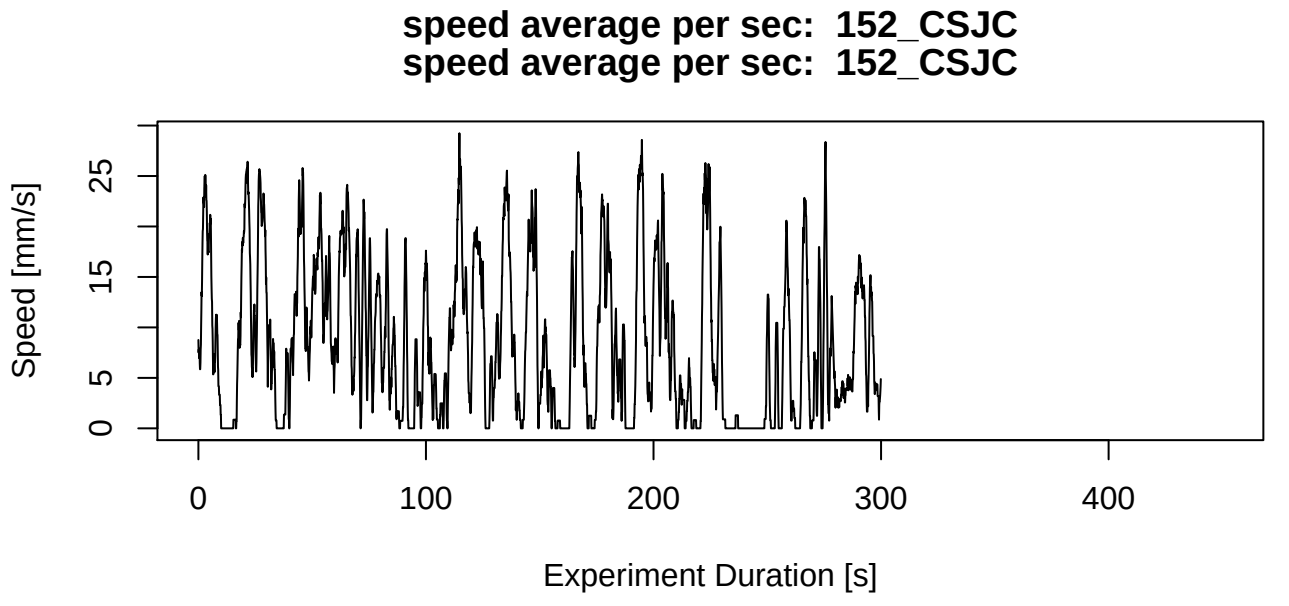

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

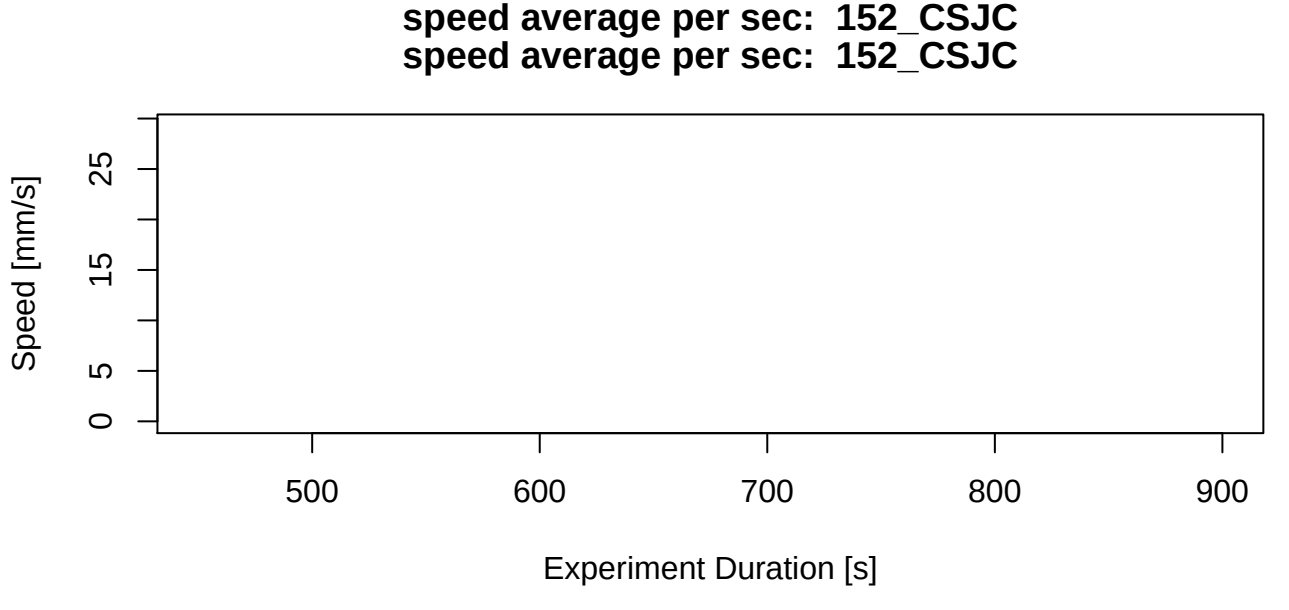

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

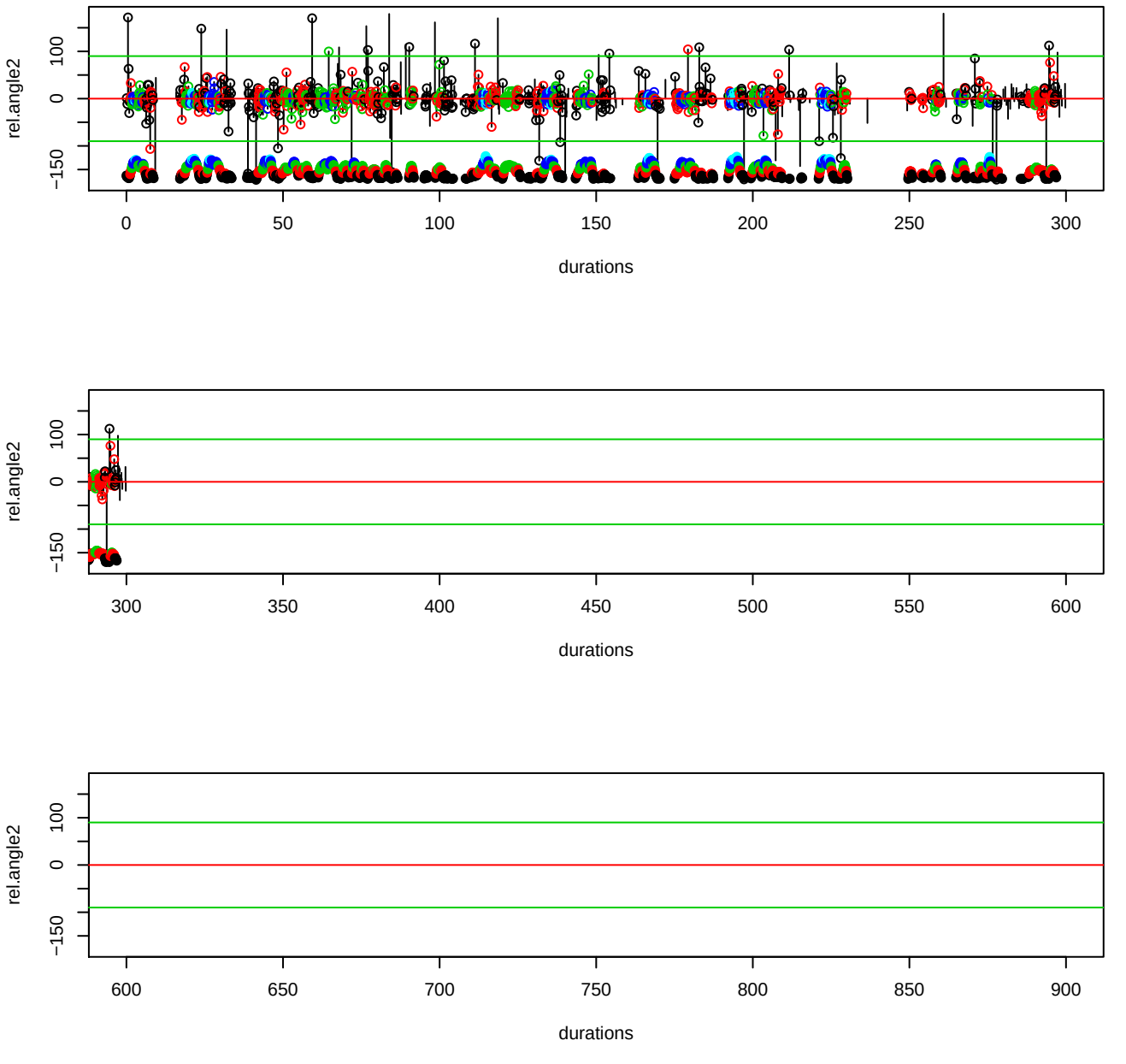

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

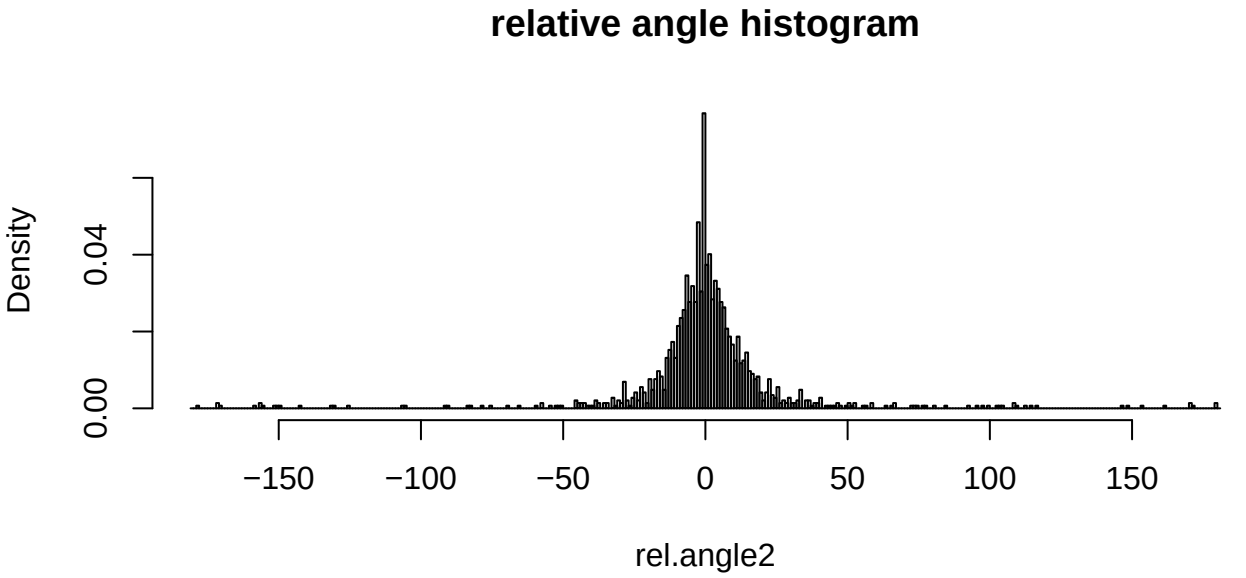

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

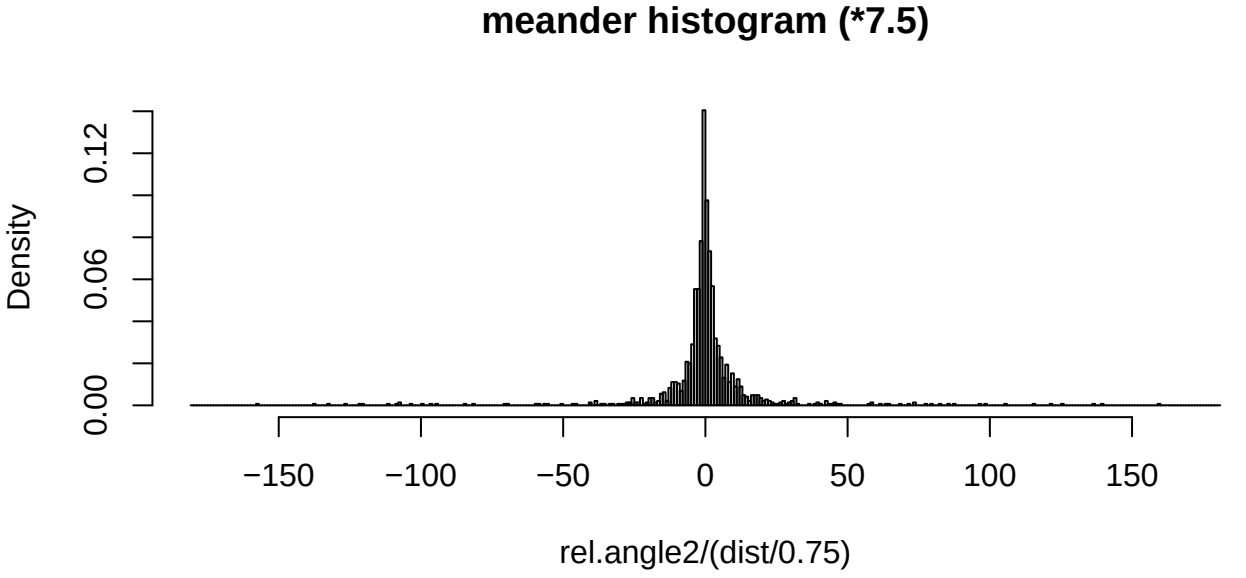

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0
1
2
3
log(speeds$speed)

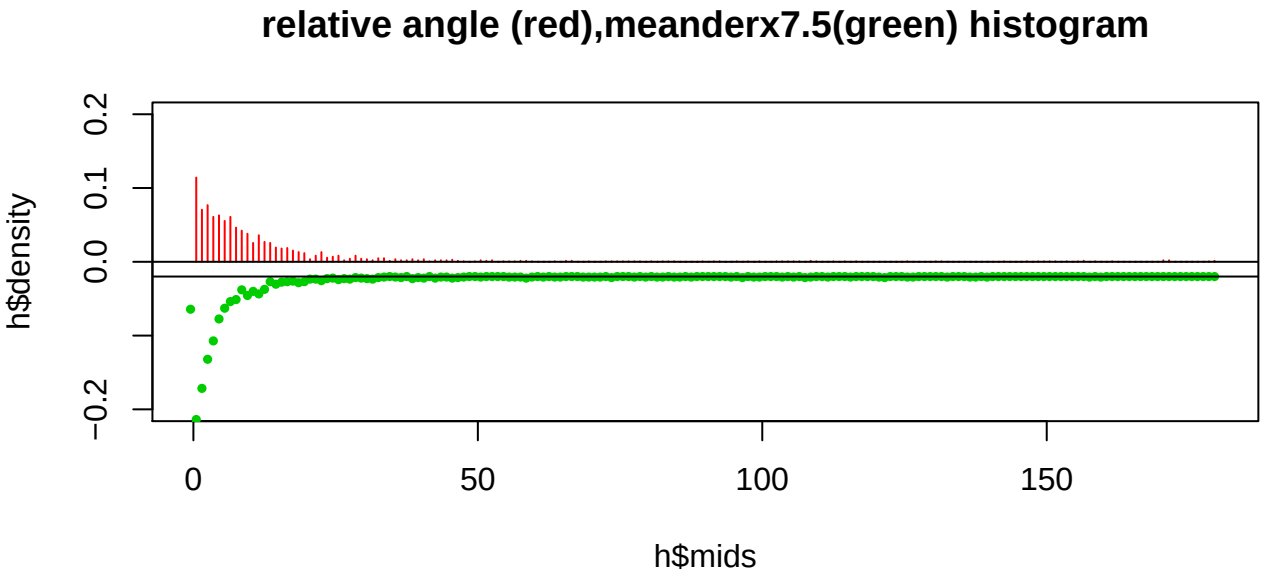

speed average per sec: 152_CSJC
speed average per sec: 152_CSJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

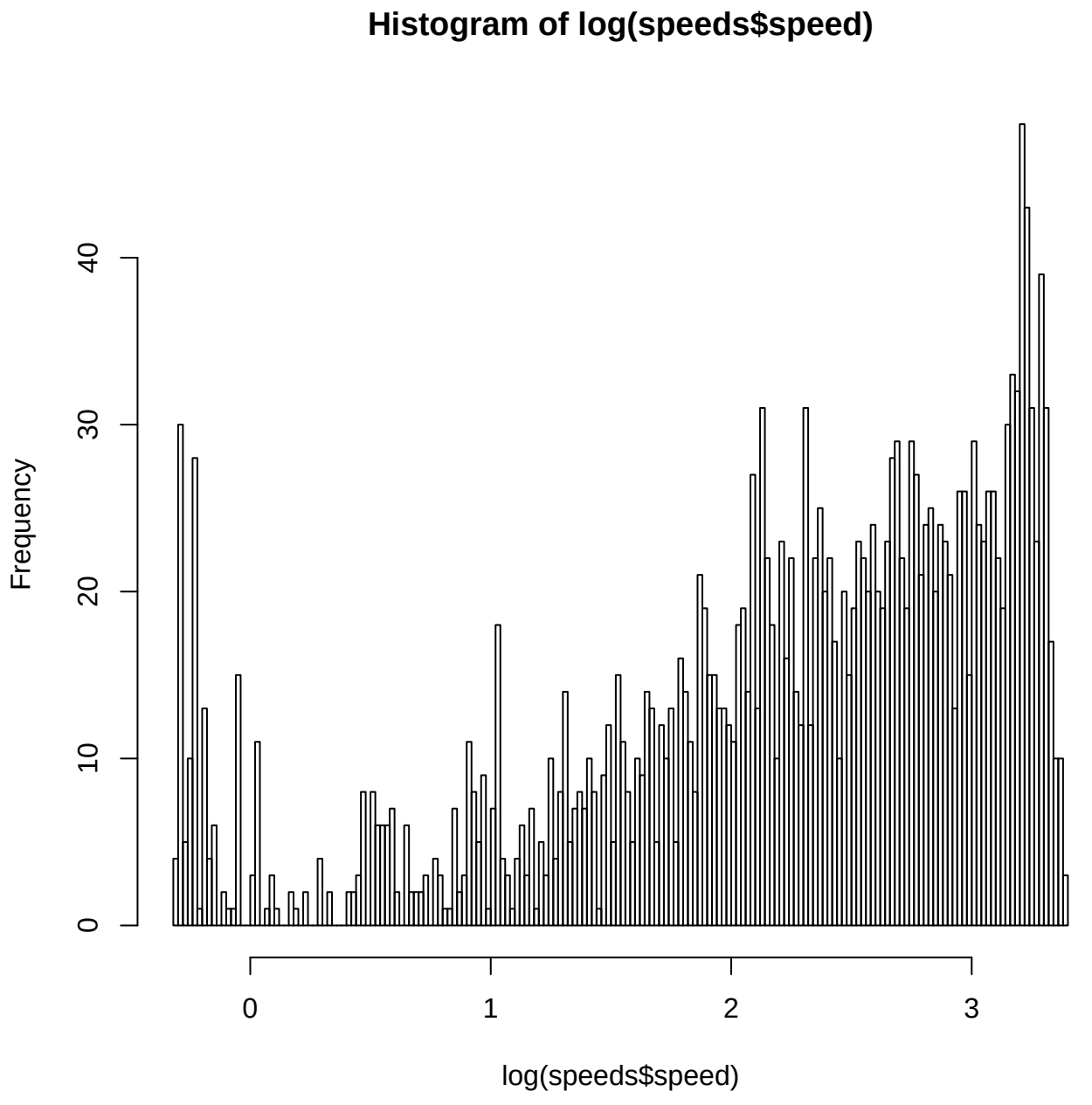

speed average per sec: 152_CSJC
speed average per sec: 152_CSJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

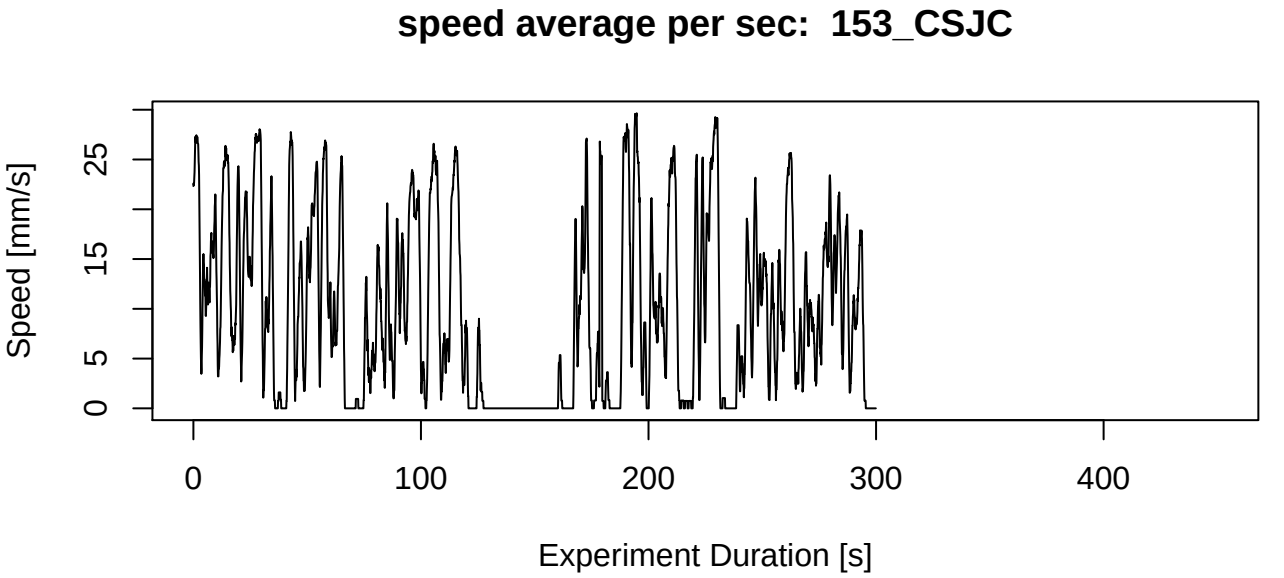

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

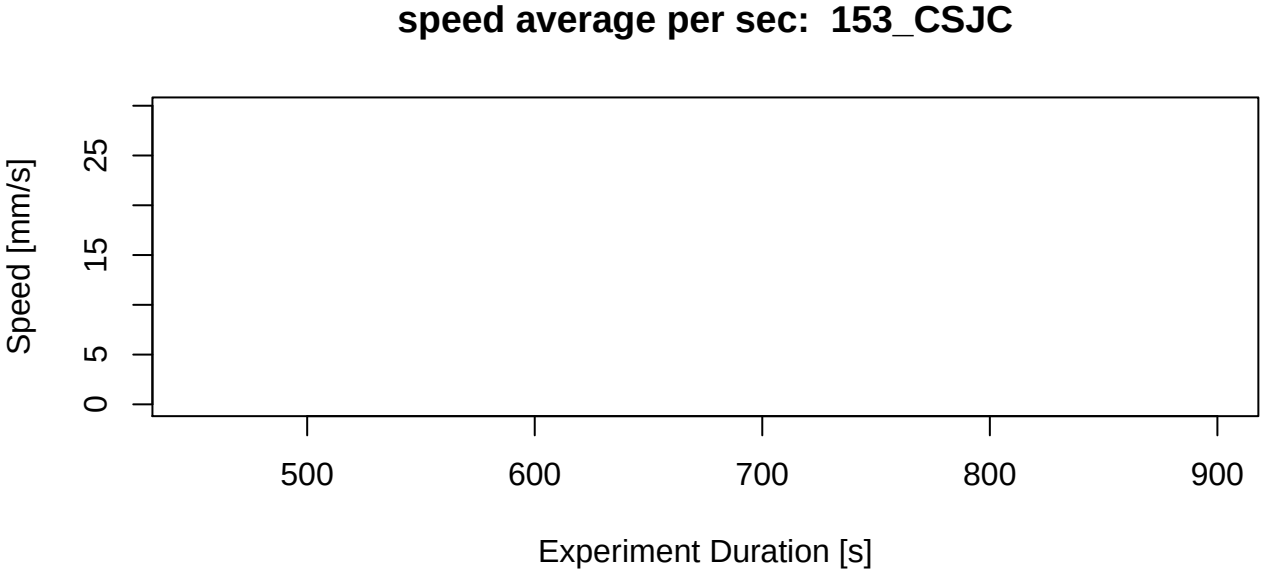

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

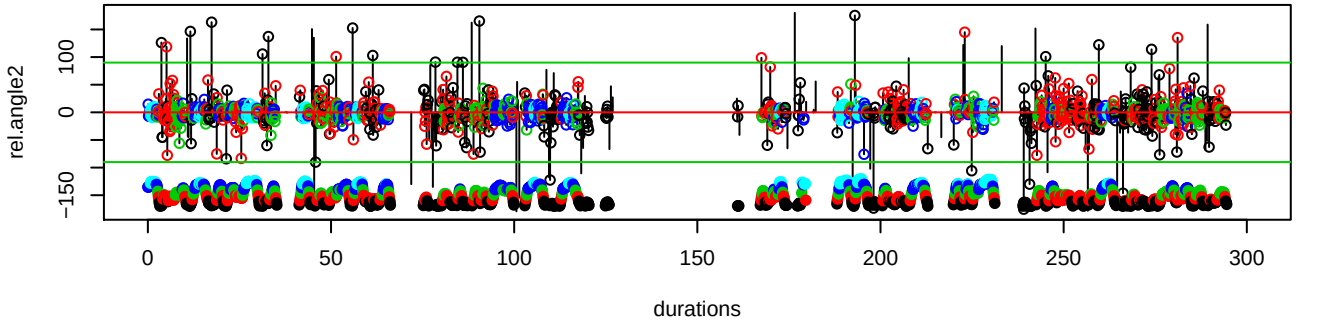

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

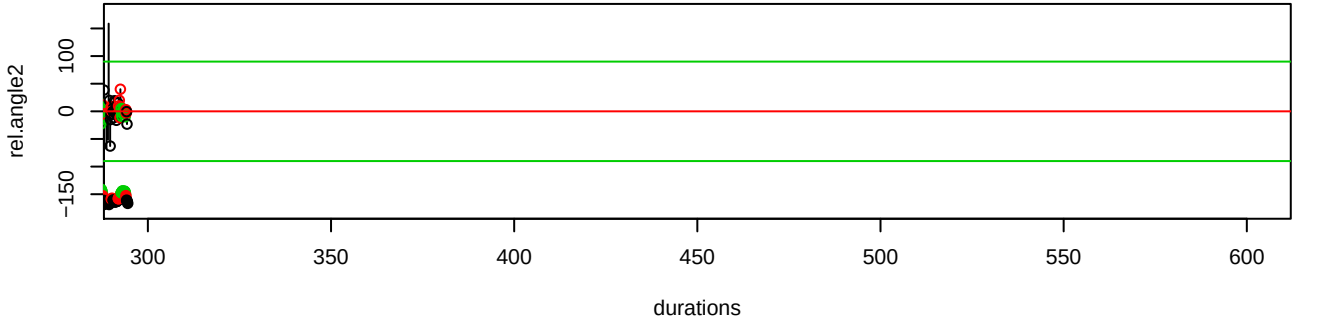

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

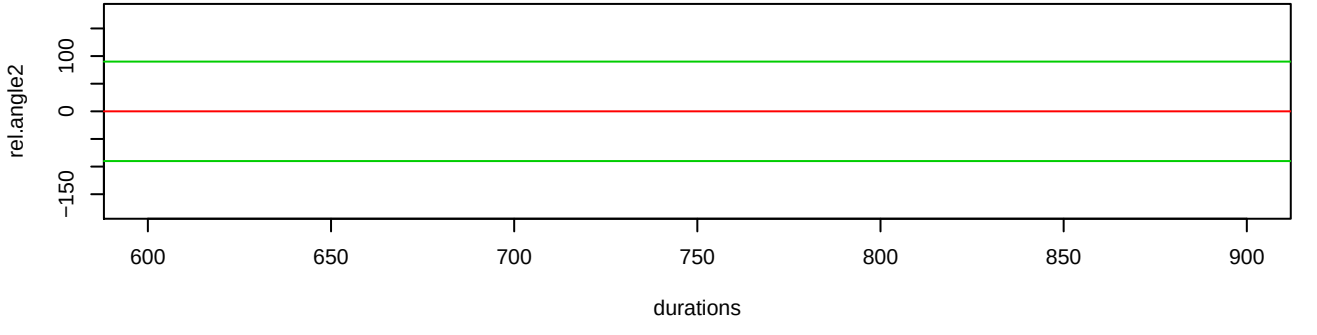

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0
1
2
3
log(speeds$speed)

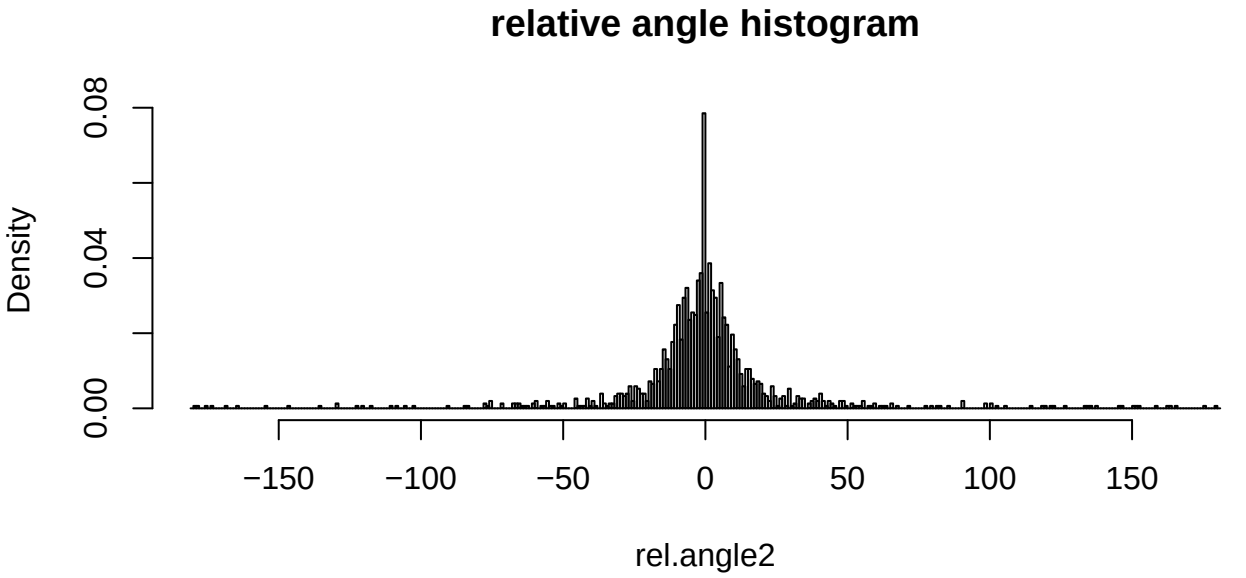

speed average per sec: 153_CSJC
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

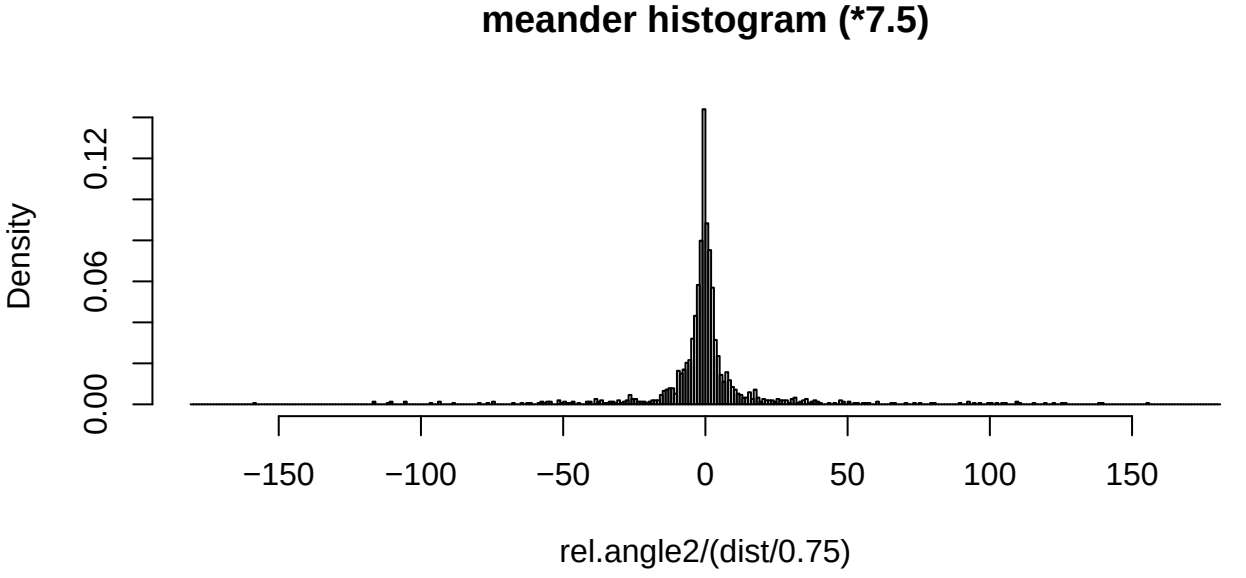

speed average per sec: 153_CSJC
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

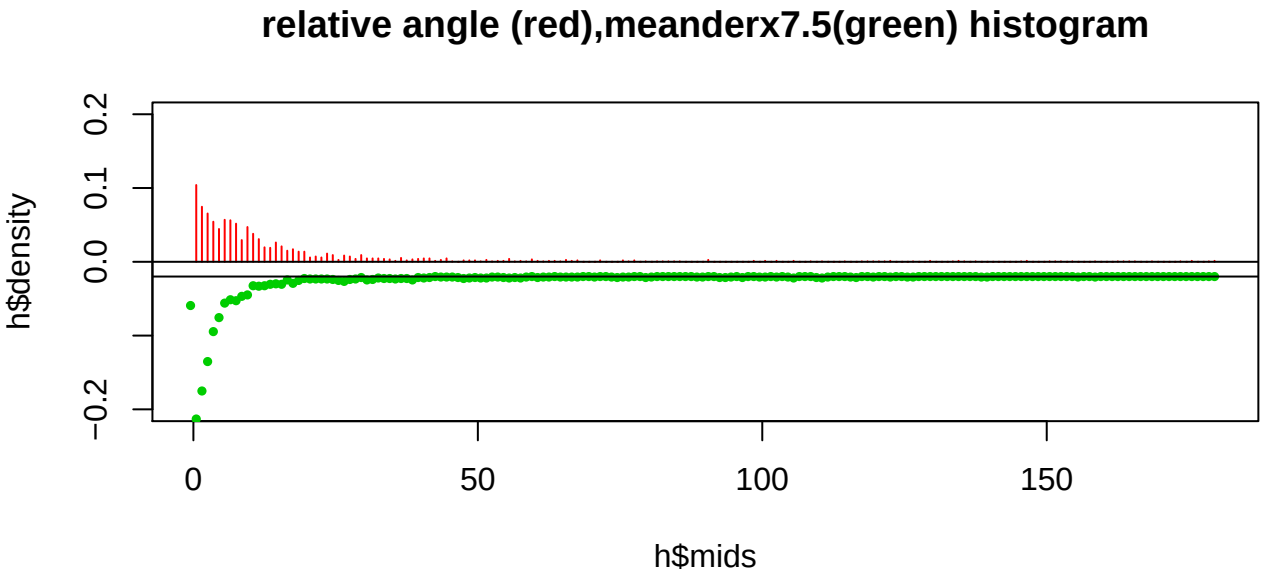

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

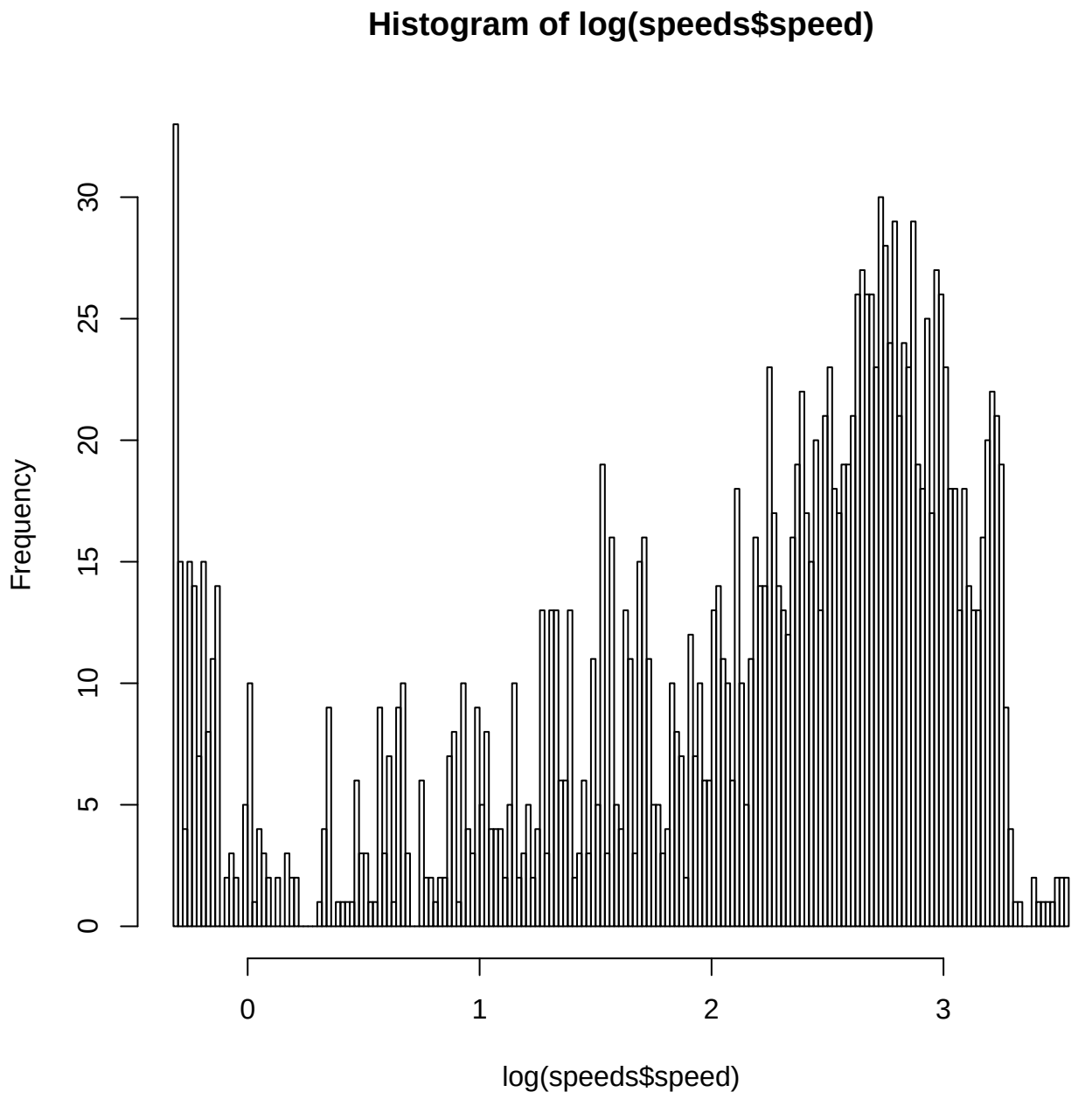

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

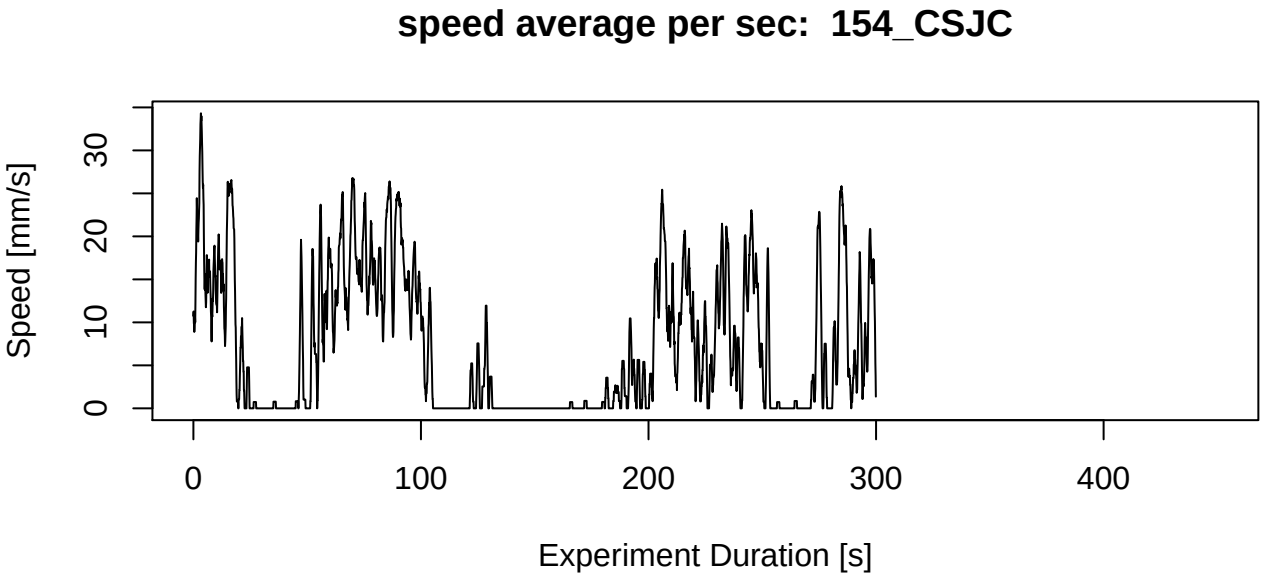

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

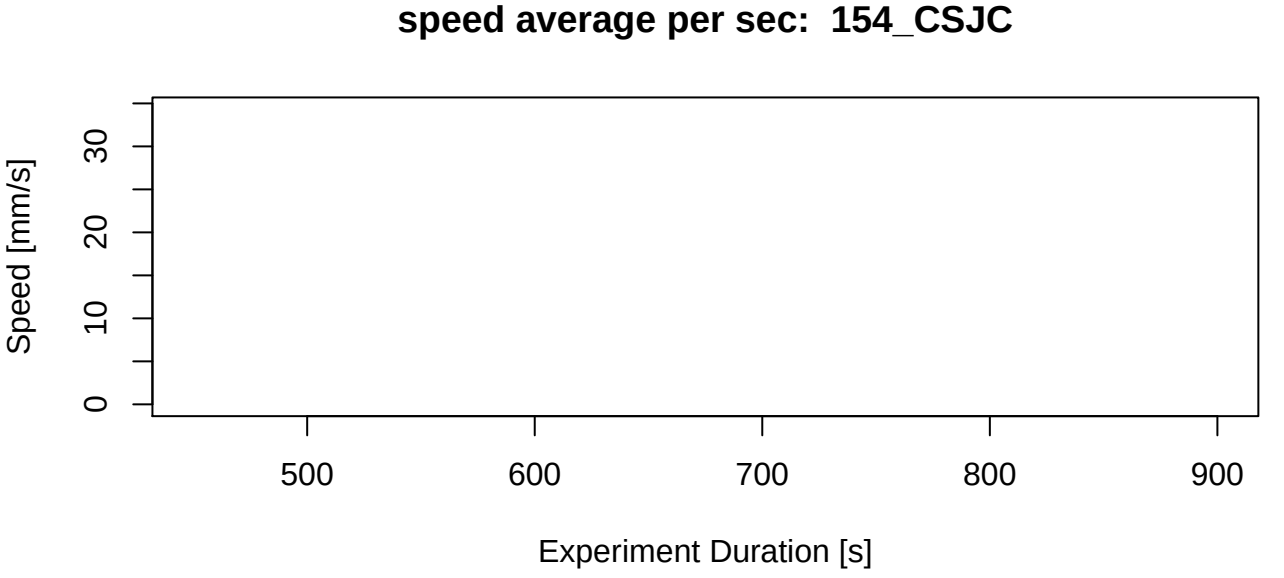

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

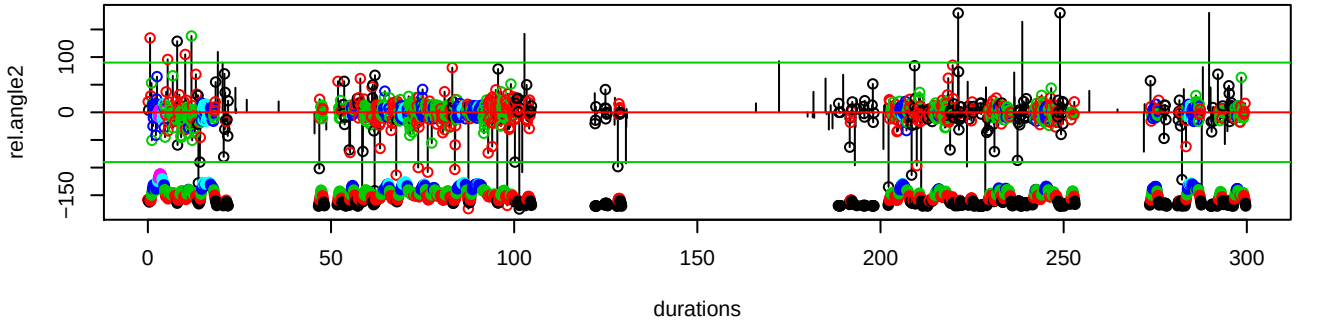

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

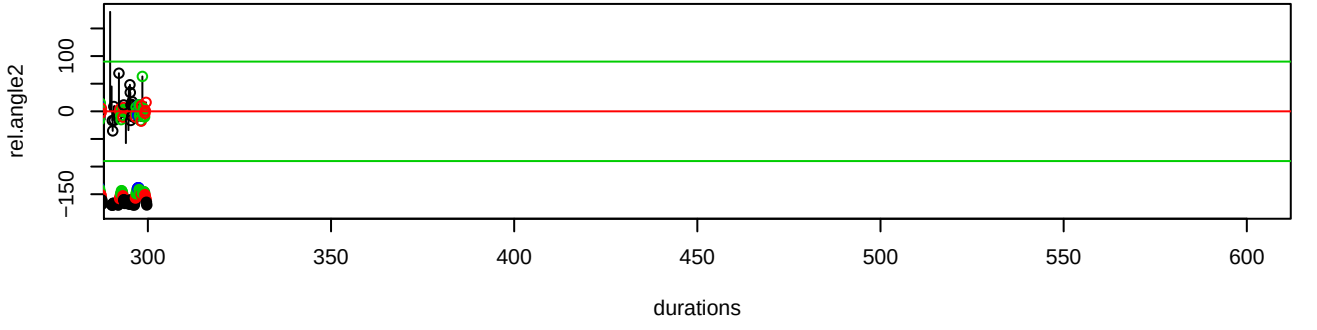

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

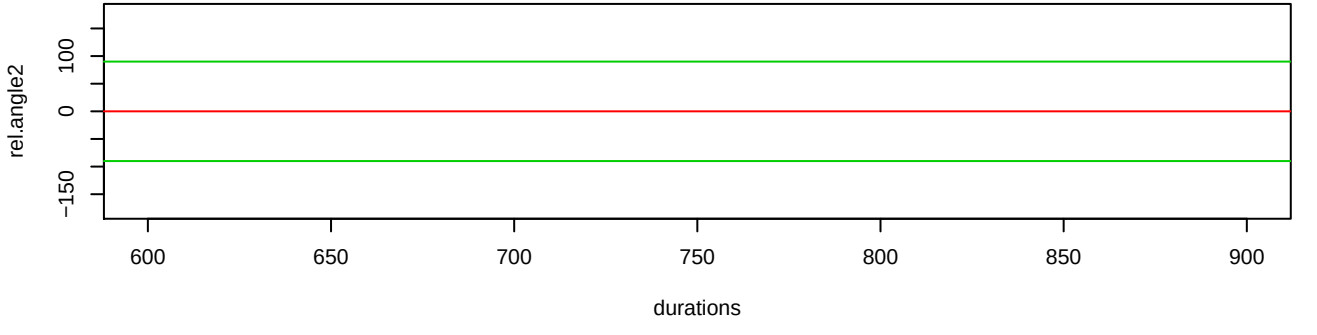

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0
1
2
3
log(speeds$speed)

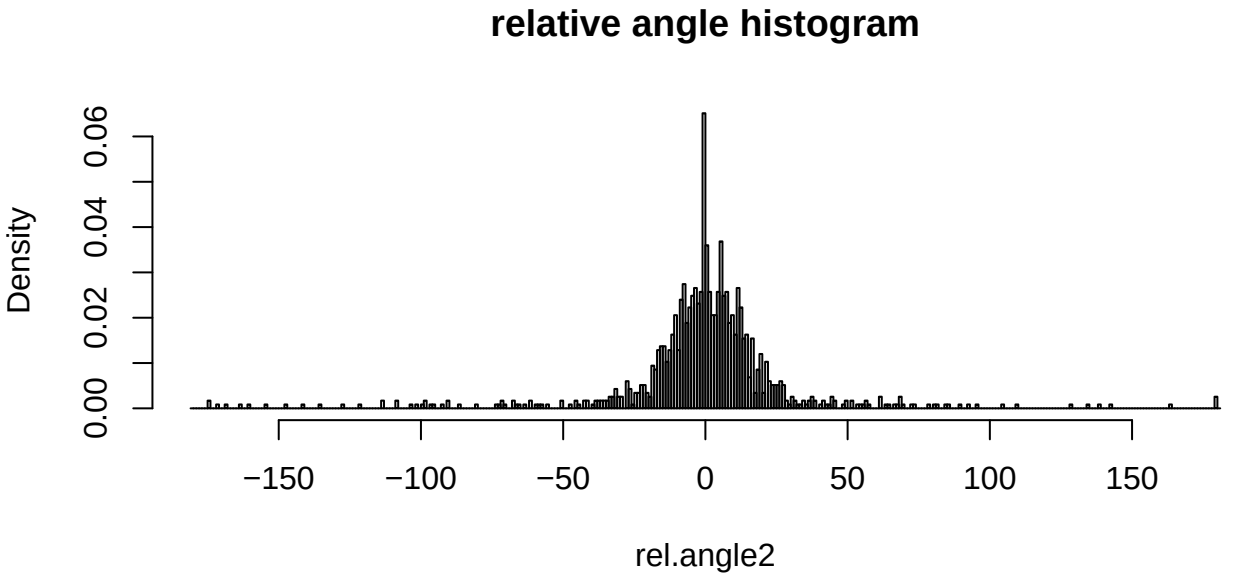

speed average per sec: 154_CSJC
Speed [mm/s]
0
10
20
30
0
100
200
300
400
Experiment Duration [s]

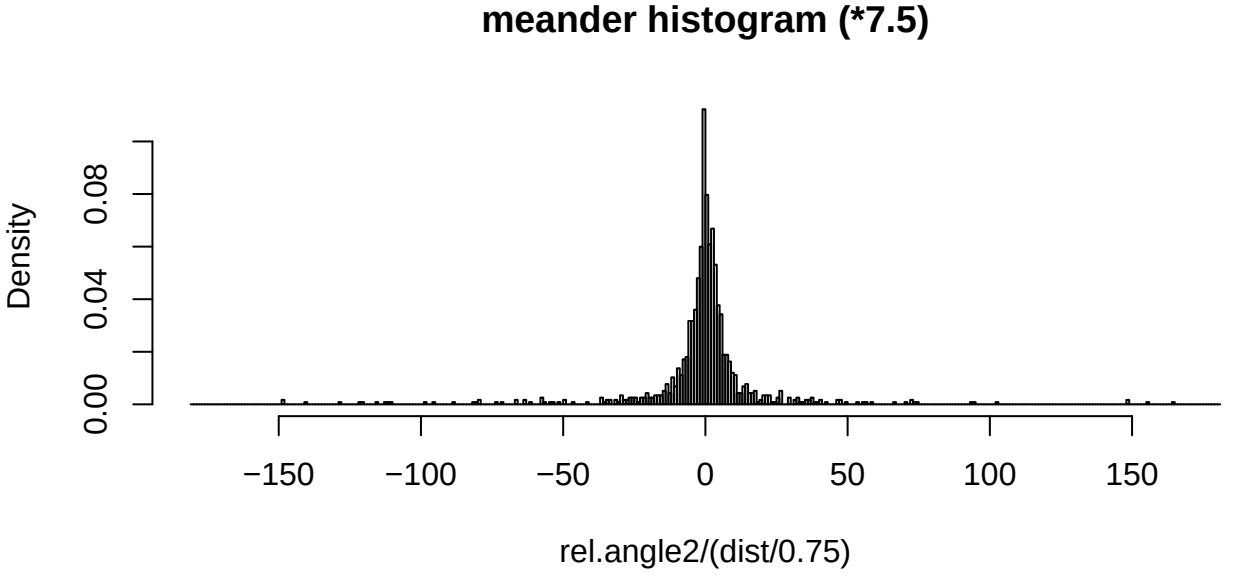

speed average per sec: 154_CSJC
Speed [mm/s]
0
10
20
30
500
600
700
800
900
Experiment Duration [s]

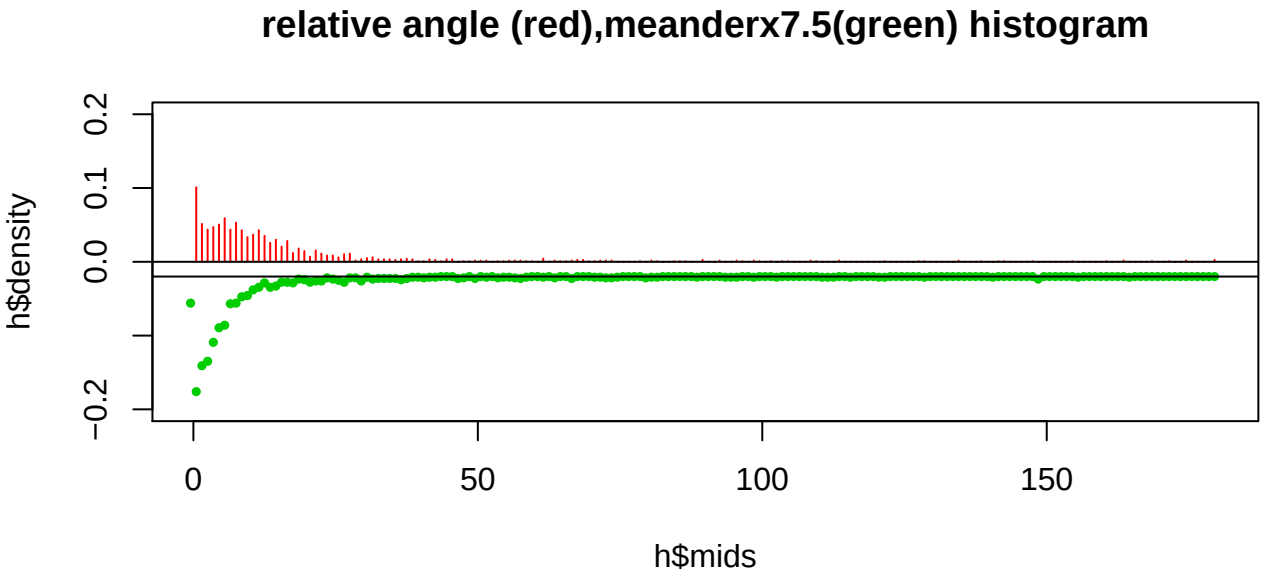

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

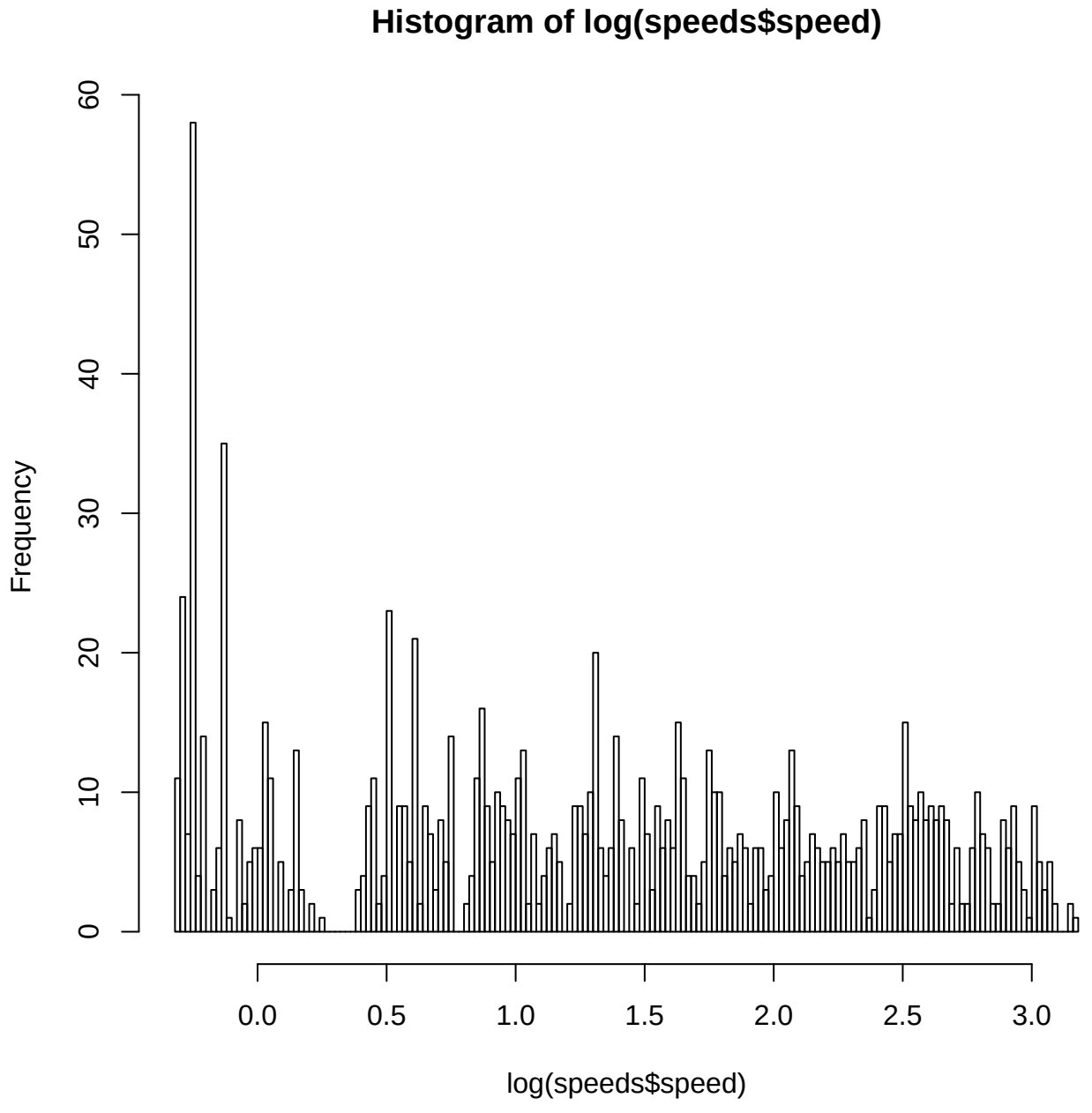

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

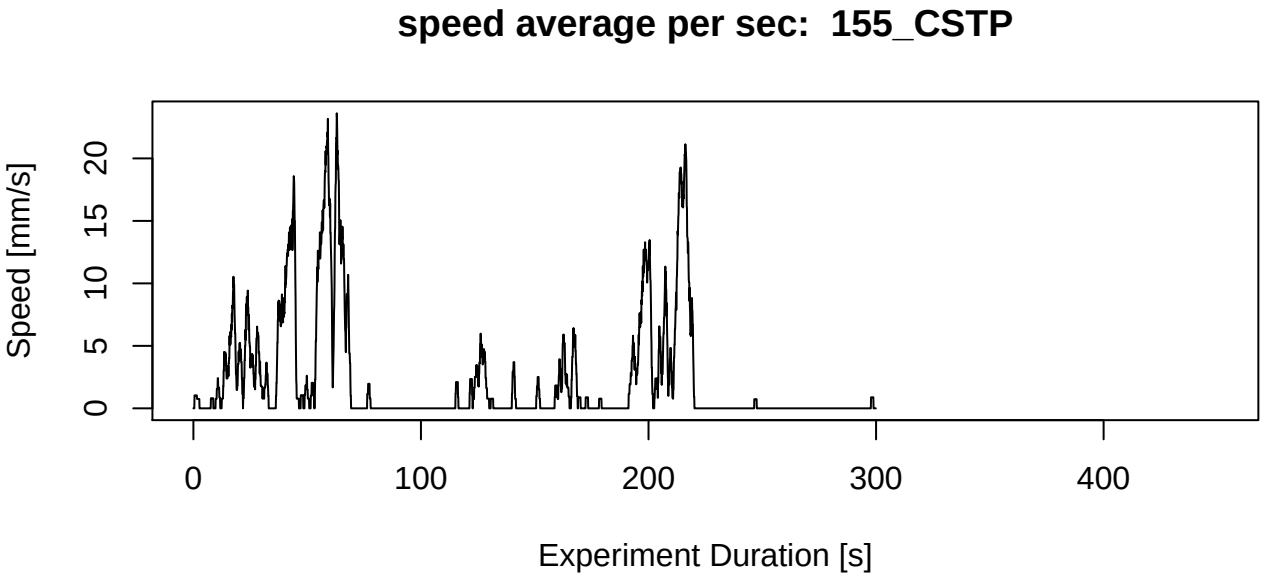

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

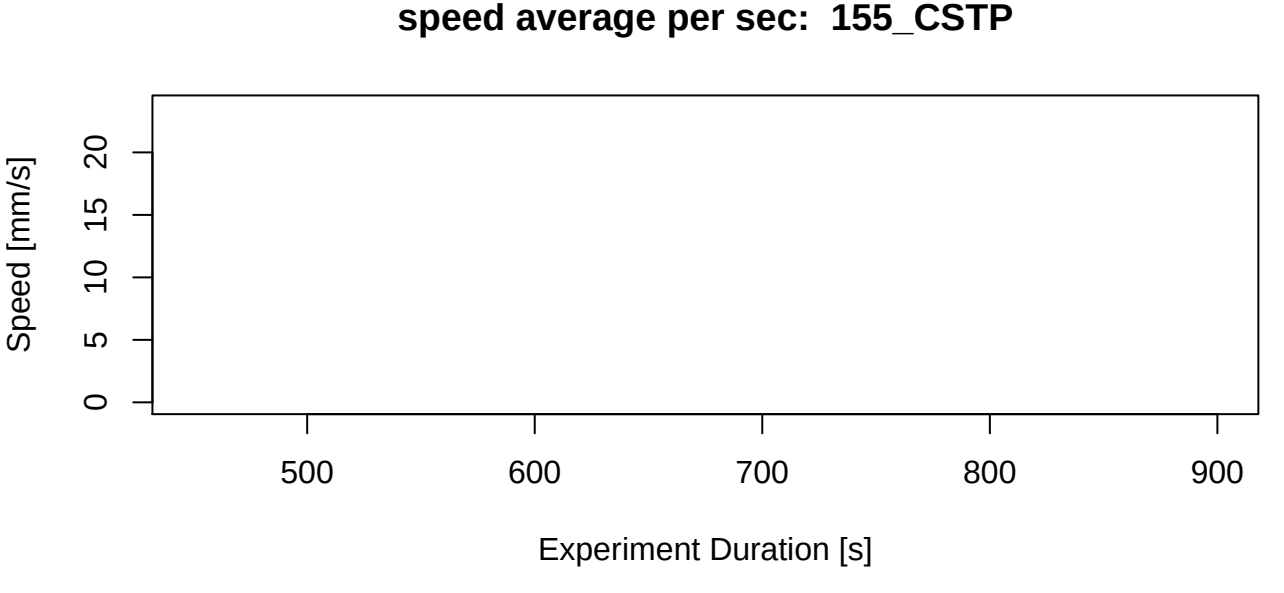

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

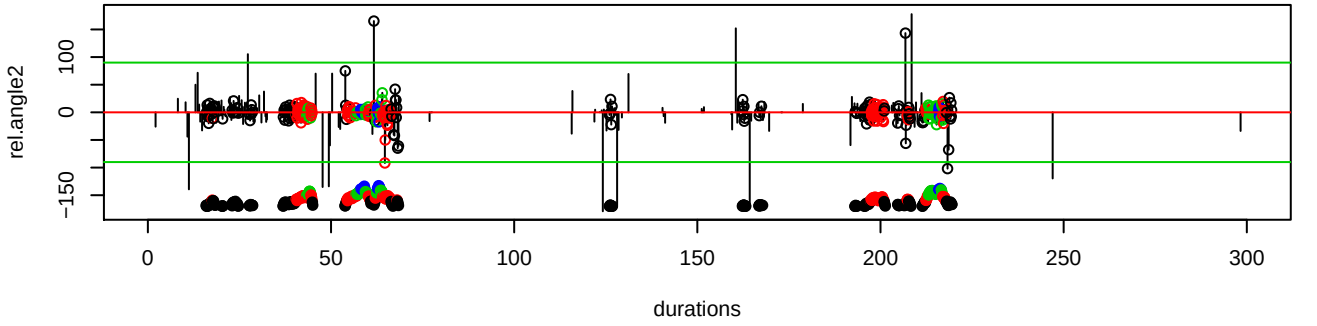

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

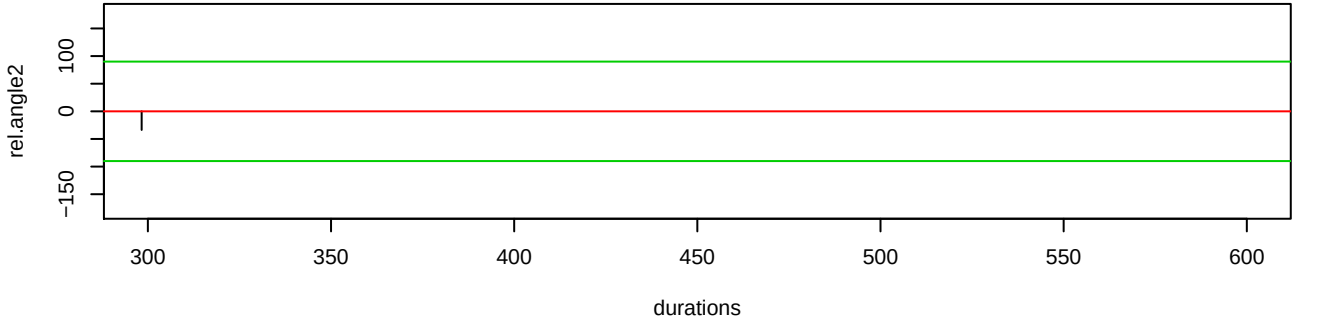

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

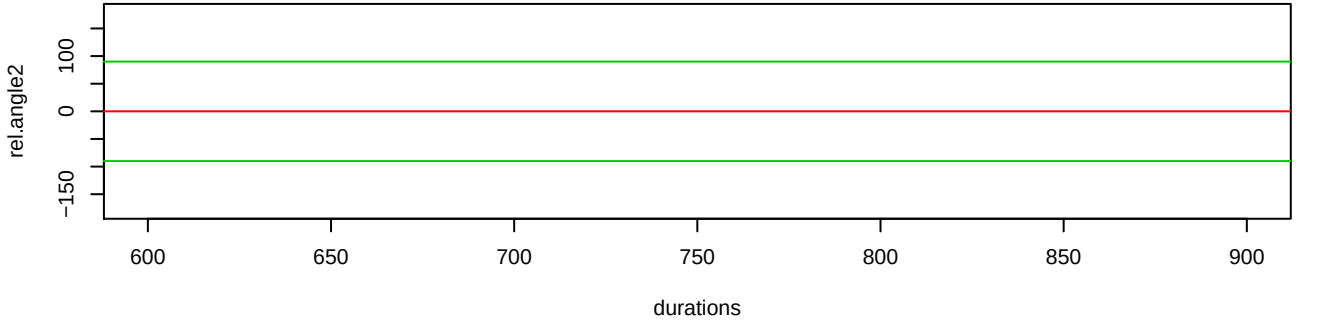

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

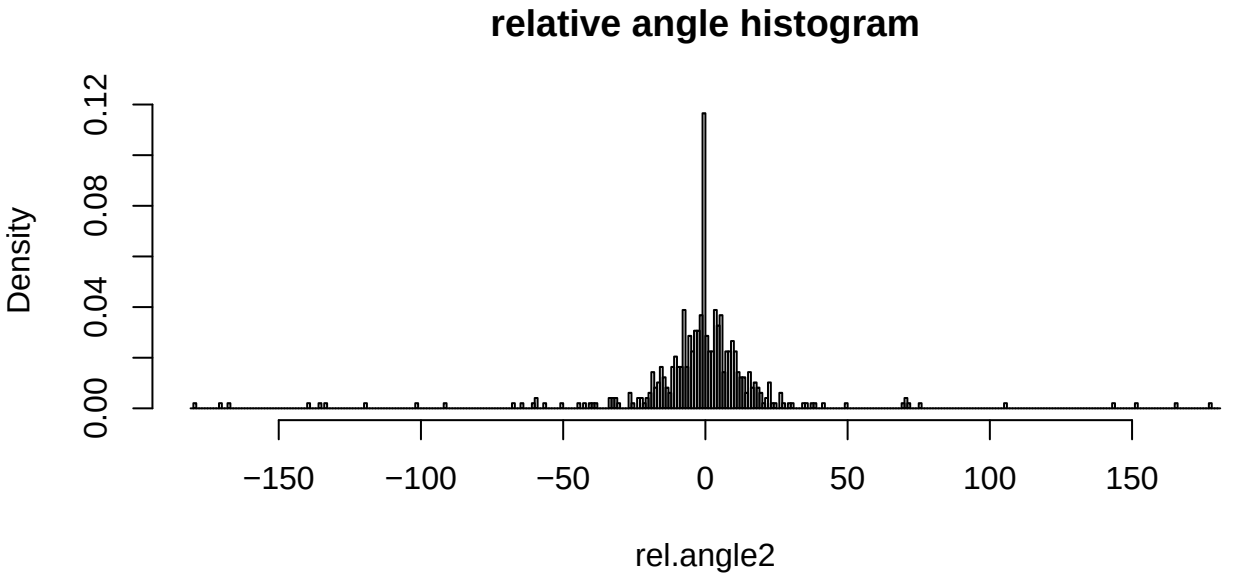

speed average per sec: 155_CSTP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

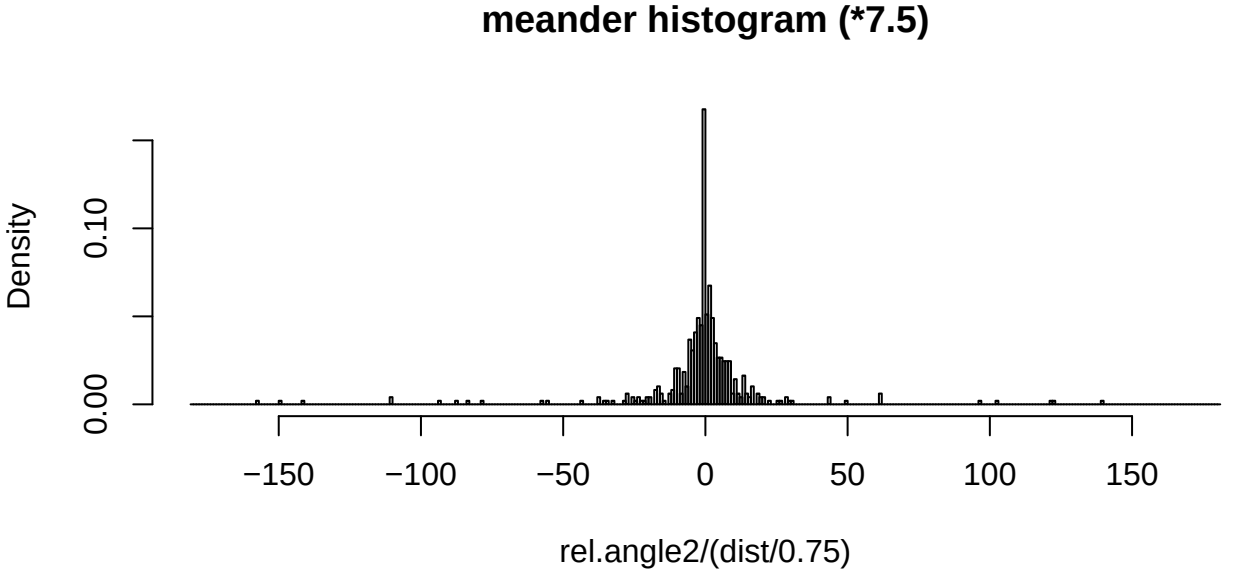

speed average per sec: 155_CSTP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

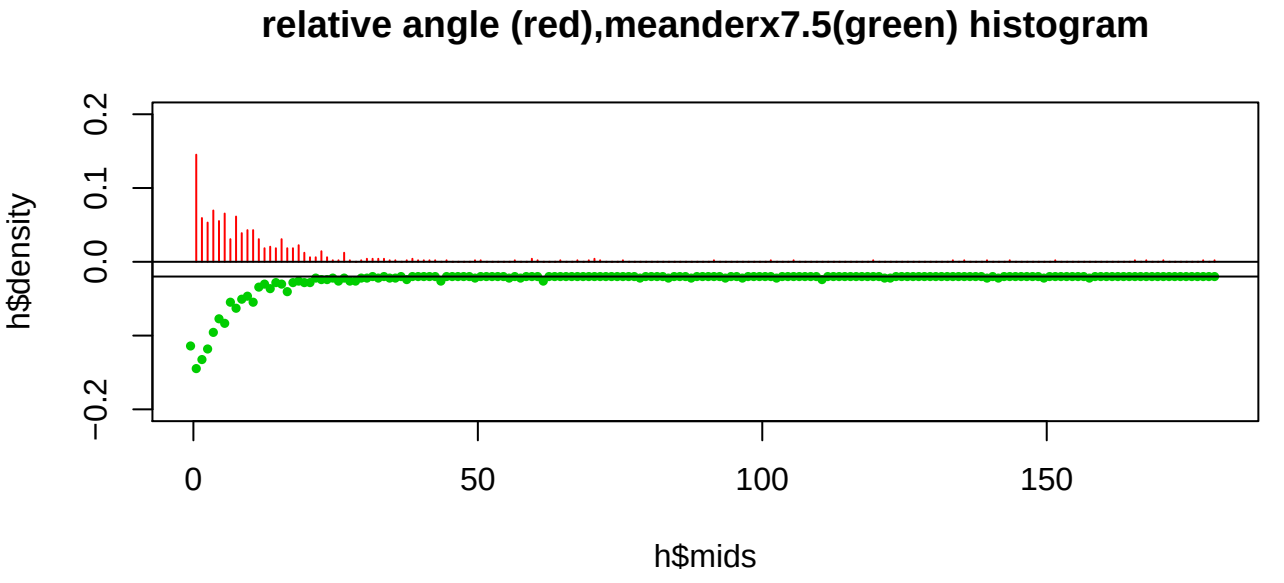

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

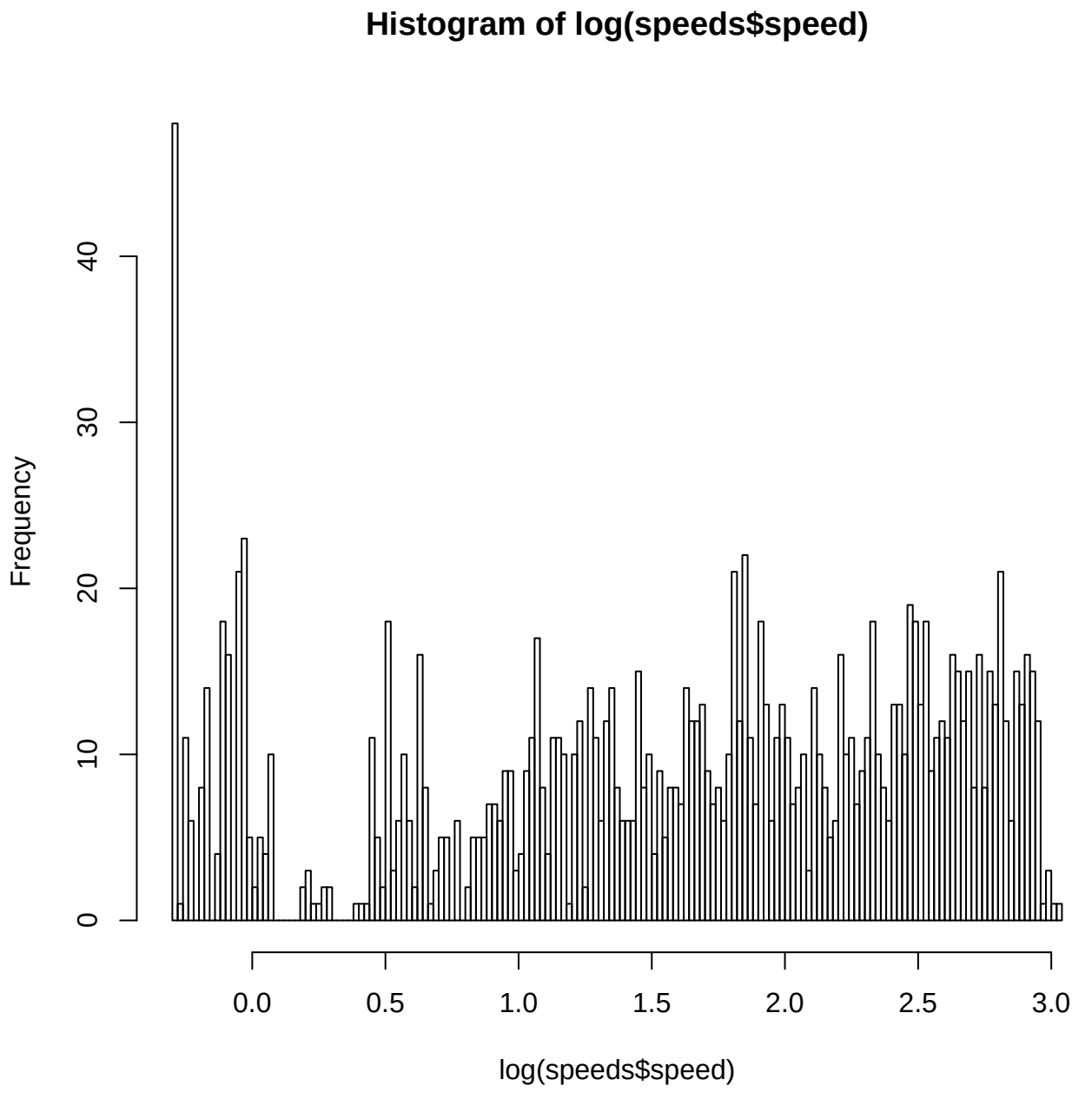

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

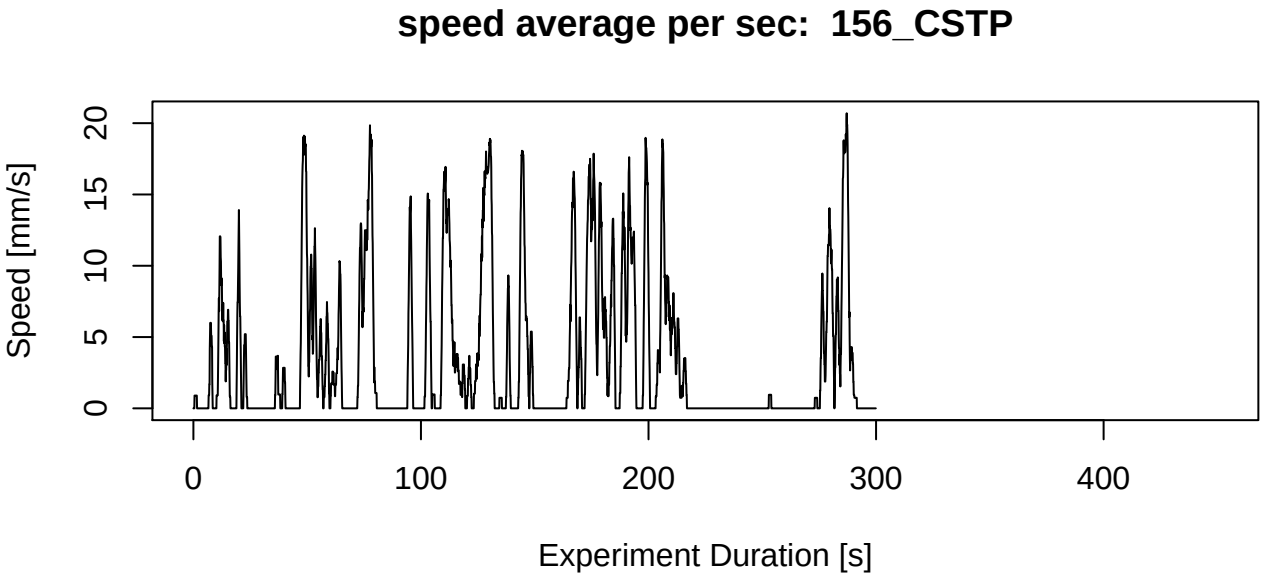

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

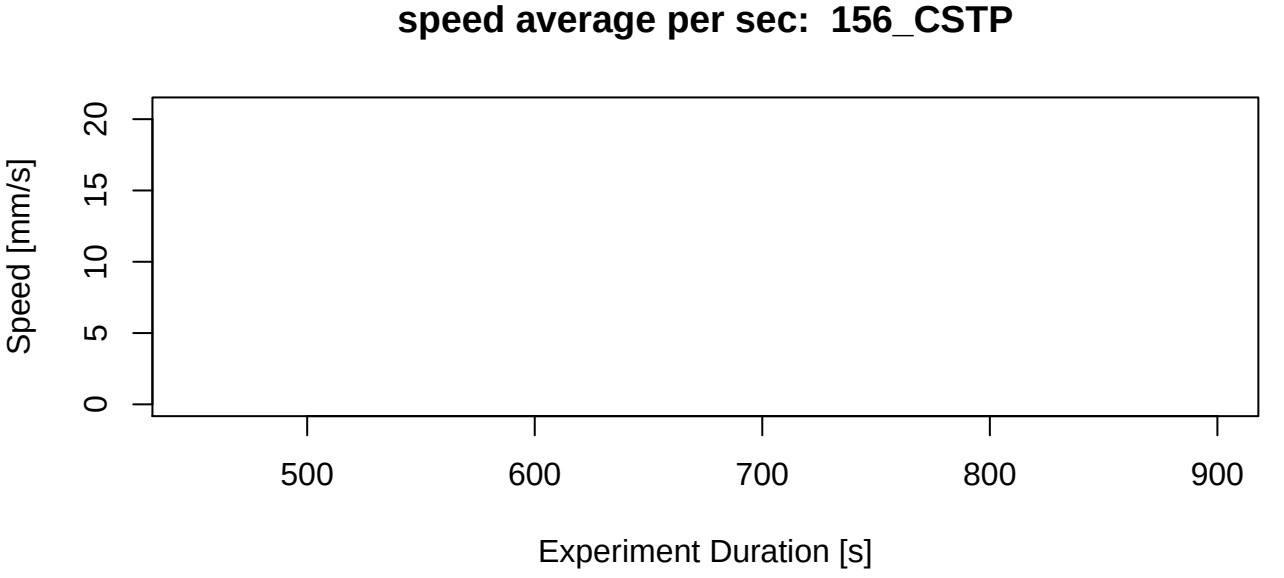

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

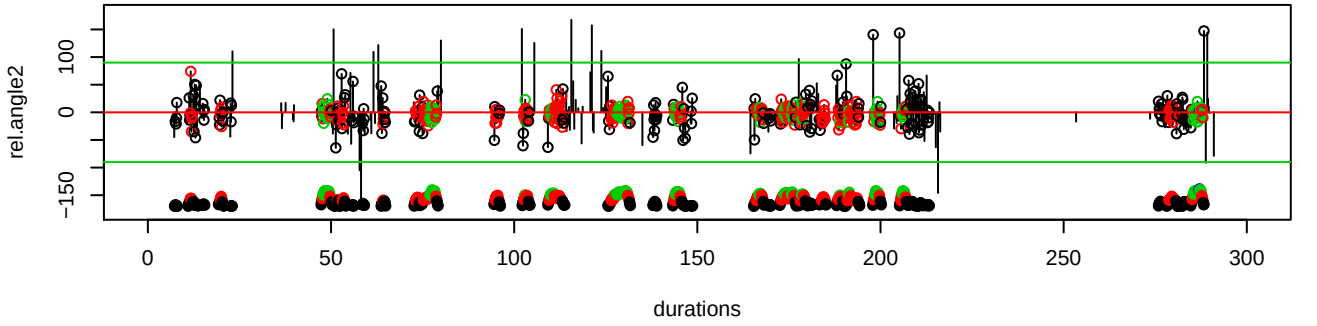

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

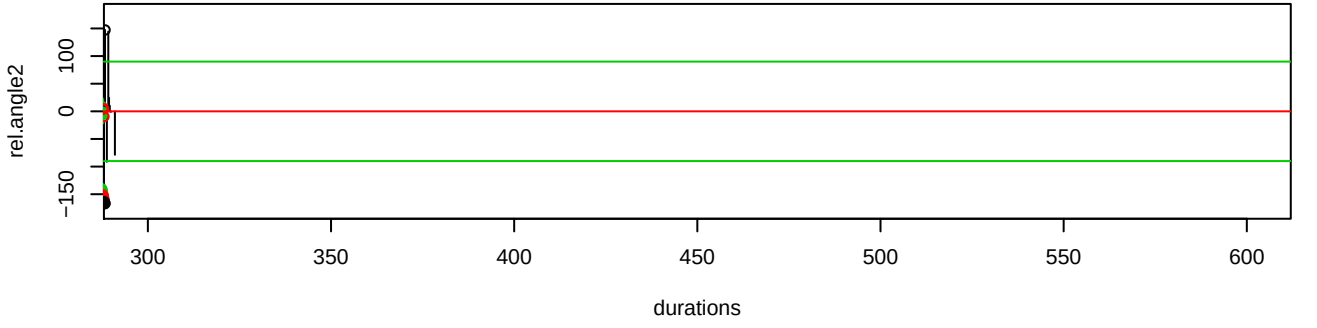

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

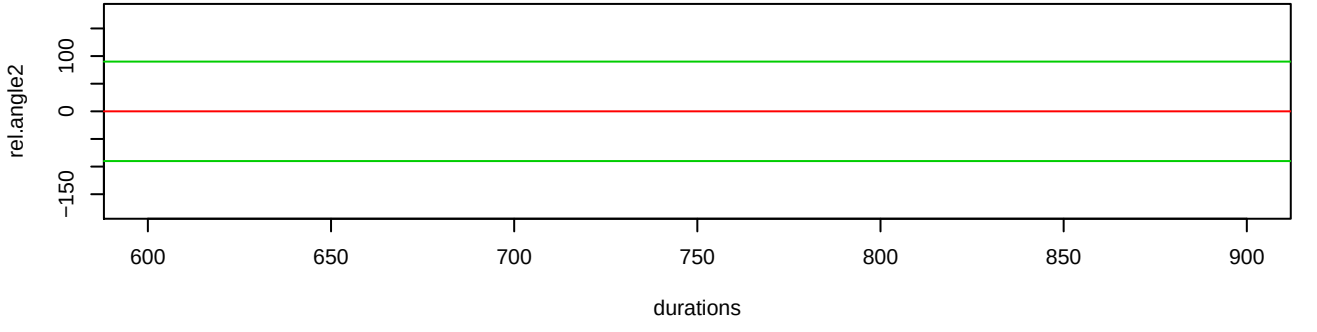

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

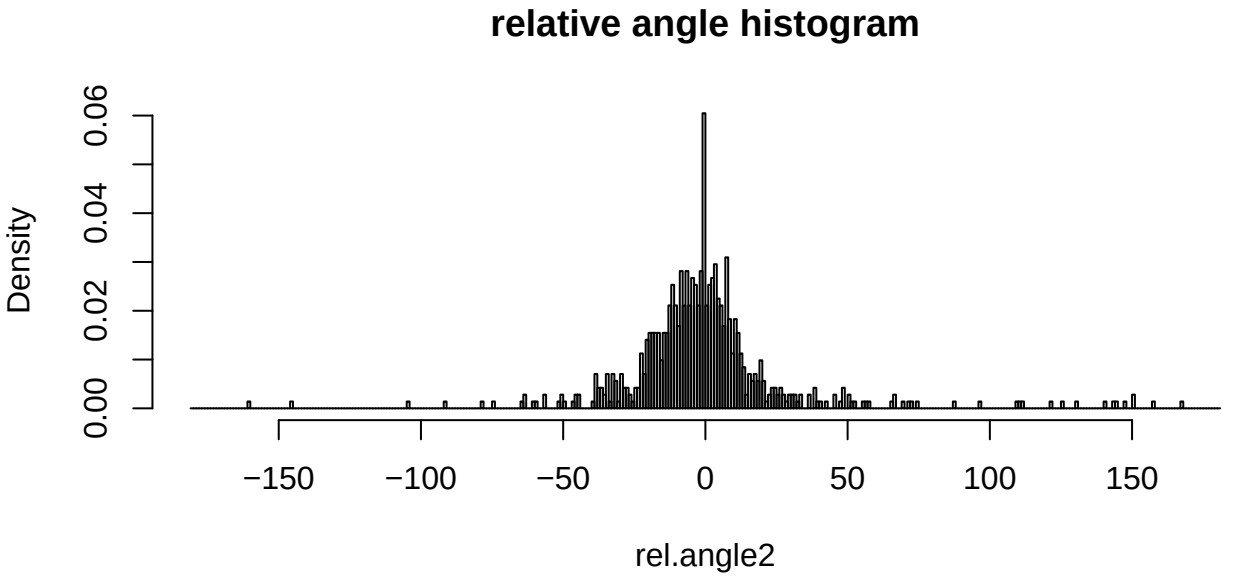

speed average per sec: 156_CSTP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

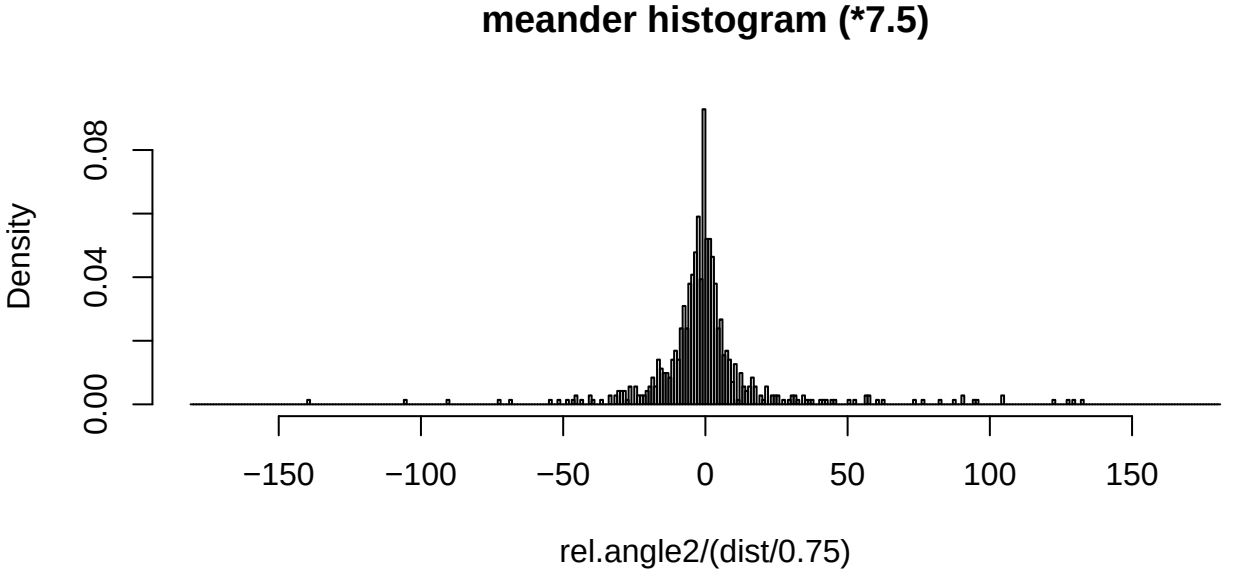

speed average per sec: 156_CSTP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

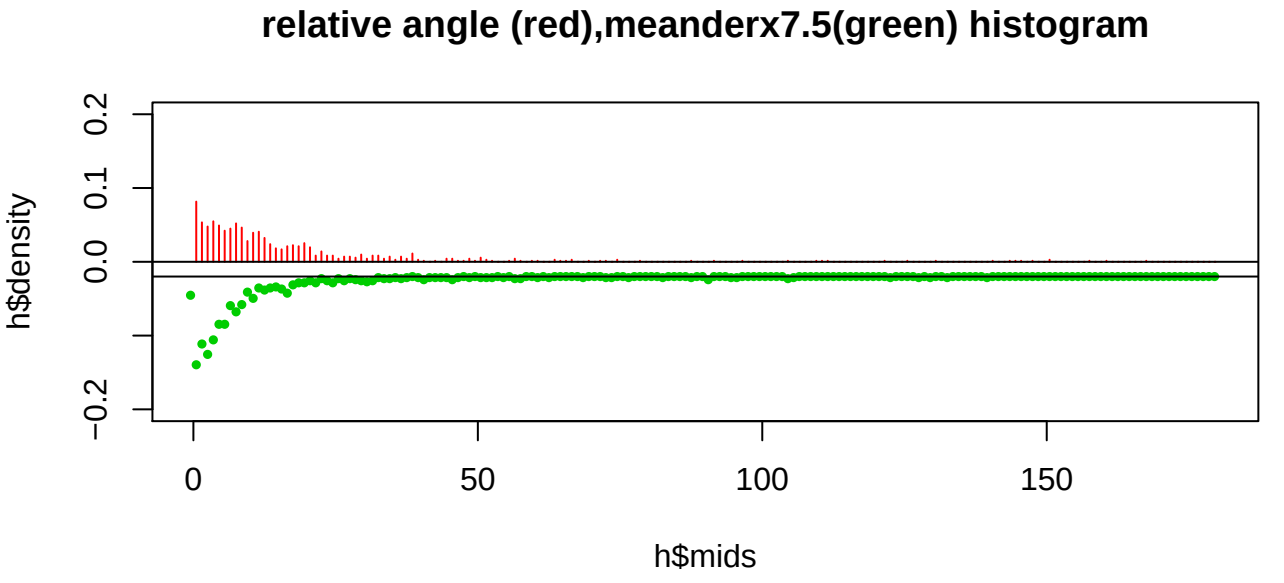

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

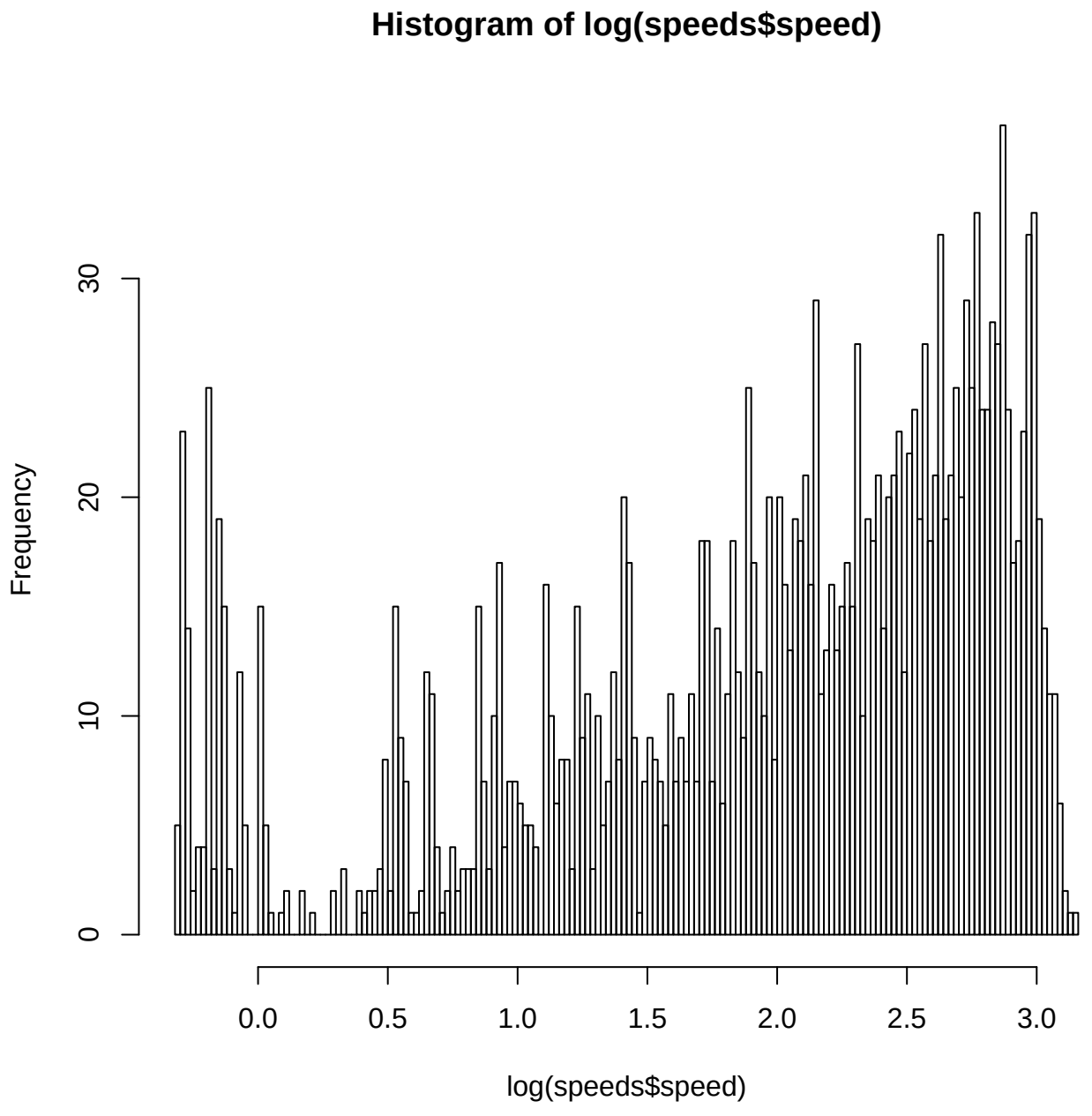

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

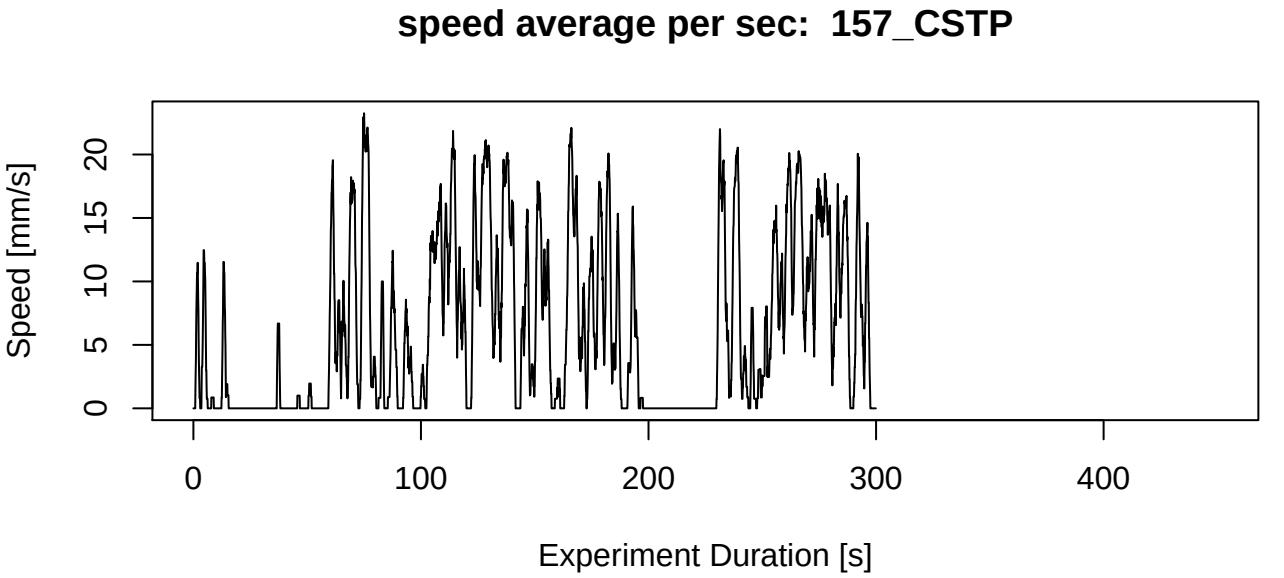

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

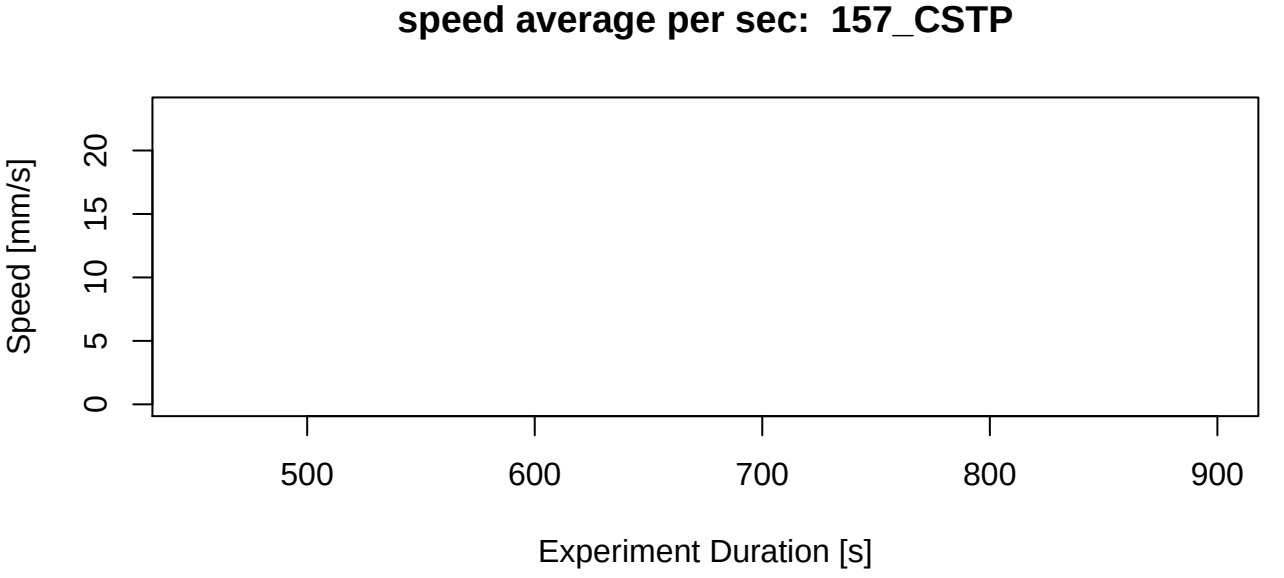

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

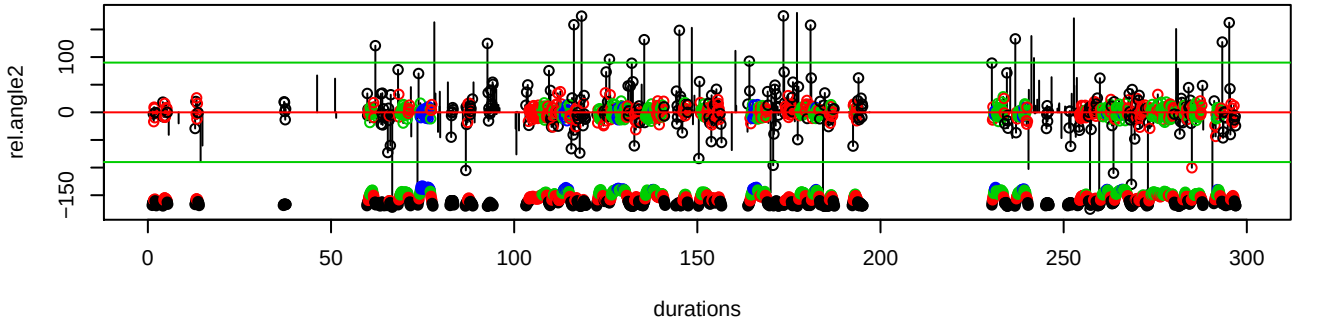

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

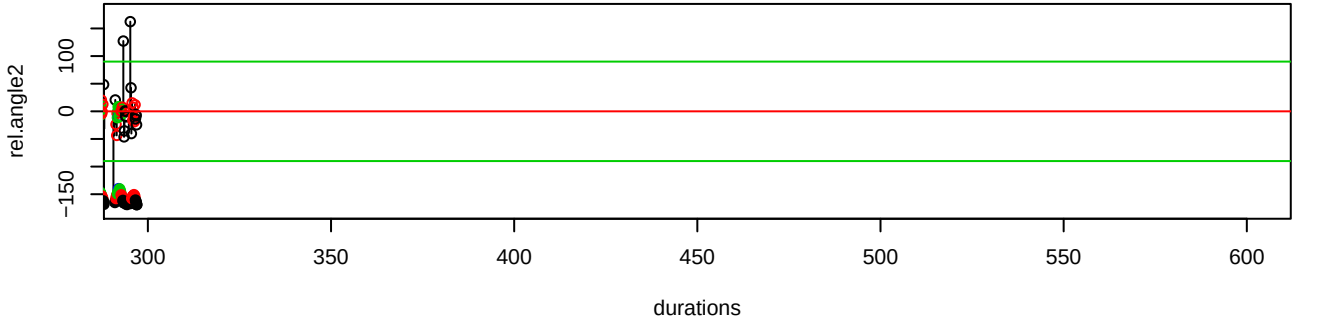

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

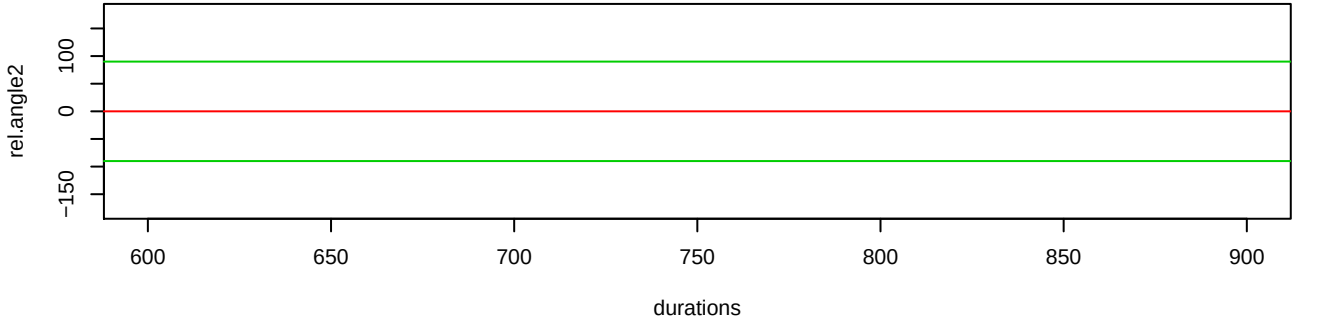

Histogram of log(speeds$speed)
Frequency
0
10
20
30
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

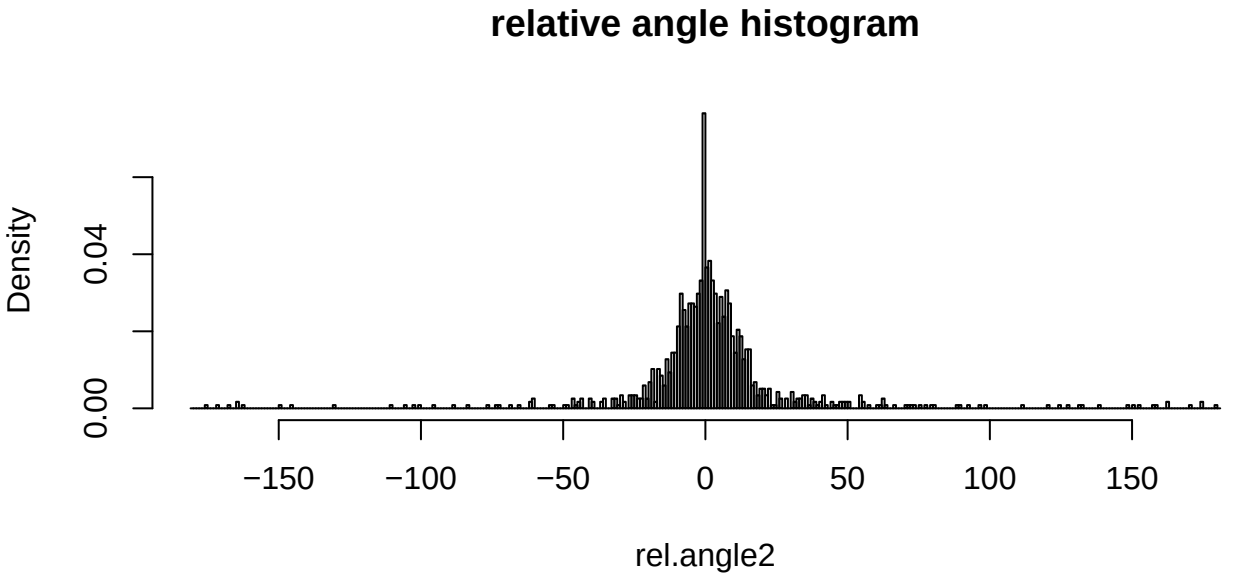

speed average per sec: 157_CSTP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

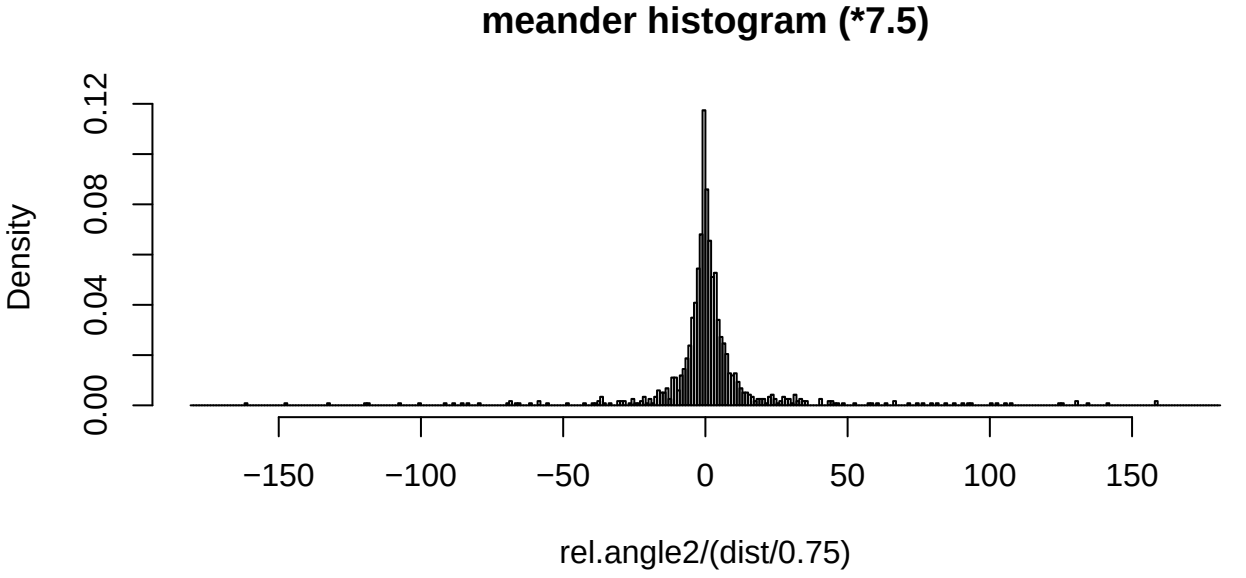

speed average per sec: 157_CSTP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

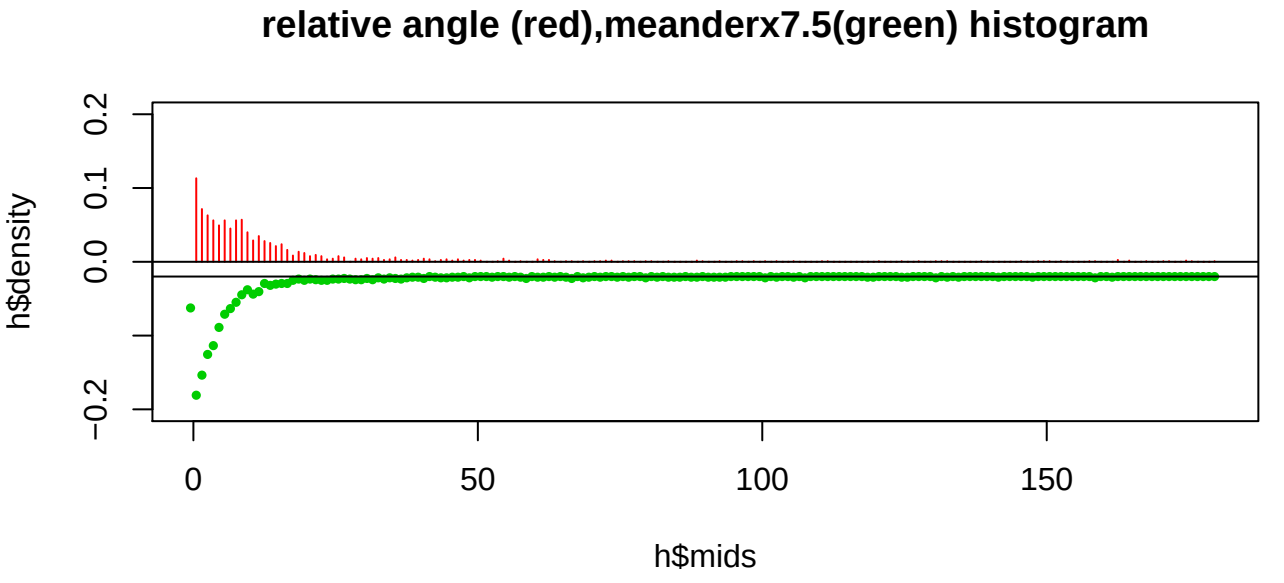

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

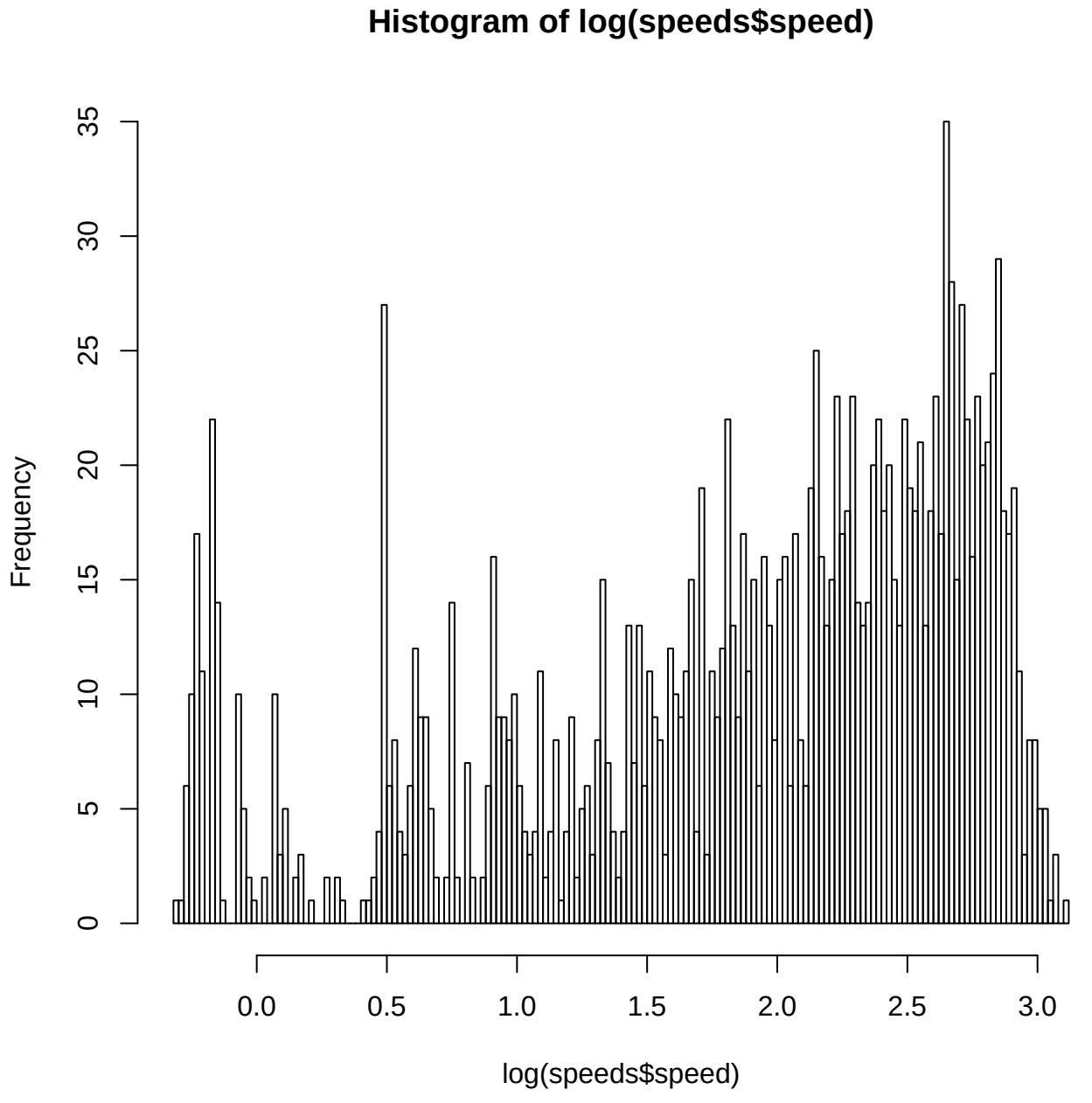

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

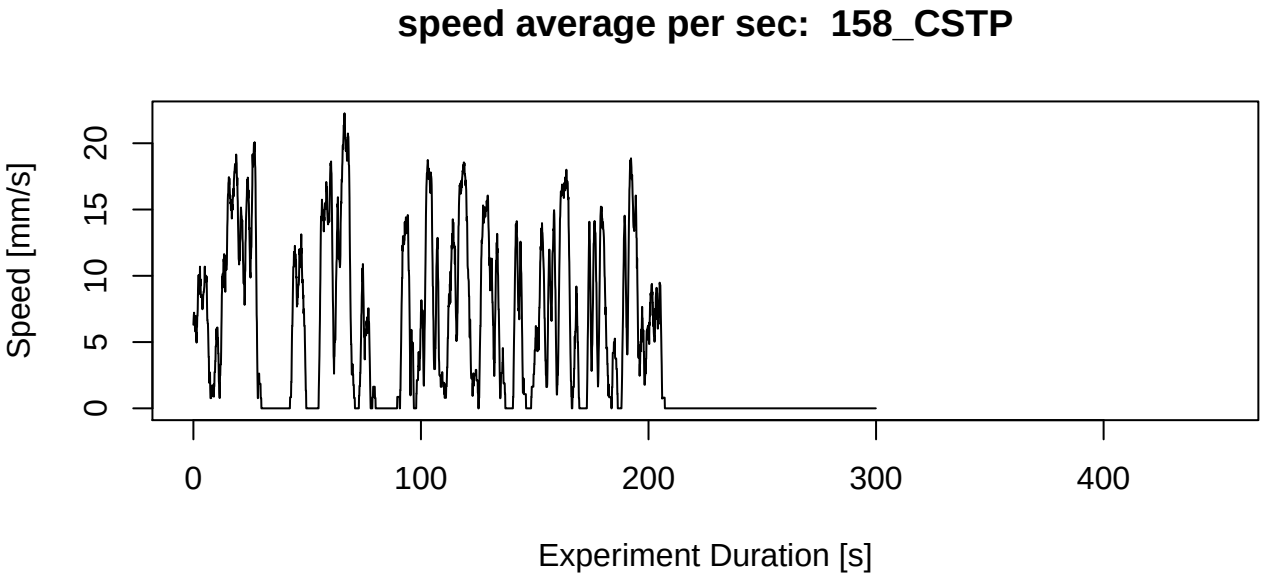

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

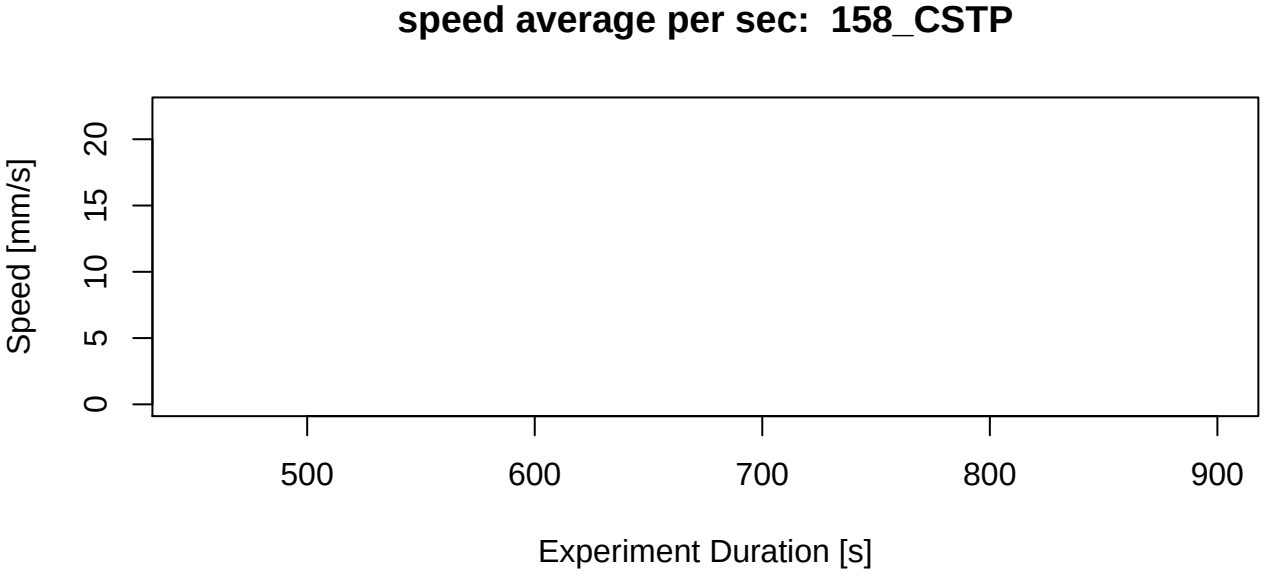

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

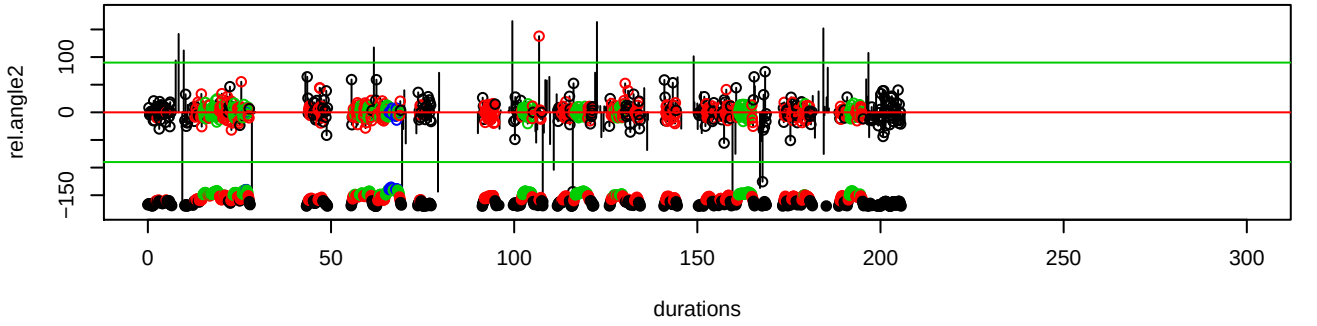

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

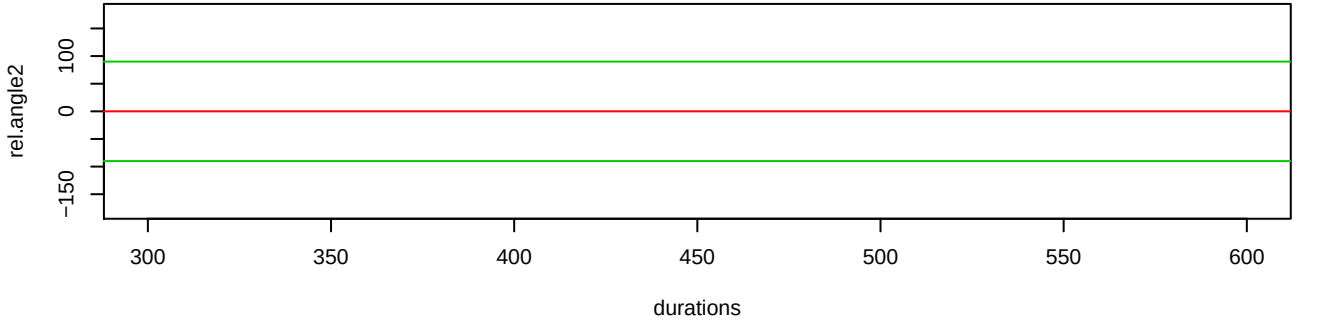

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

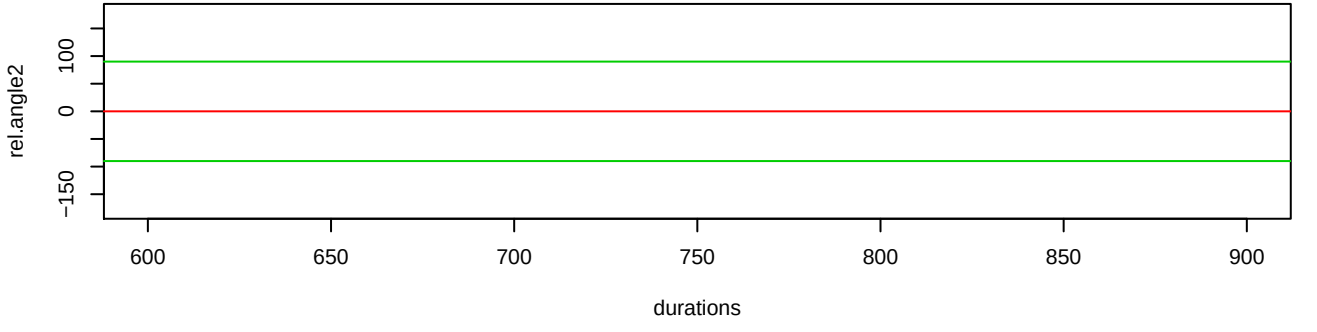

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
35
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

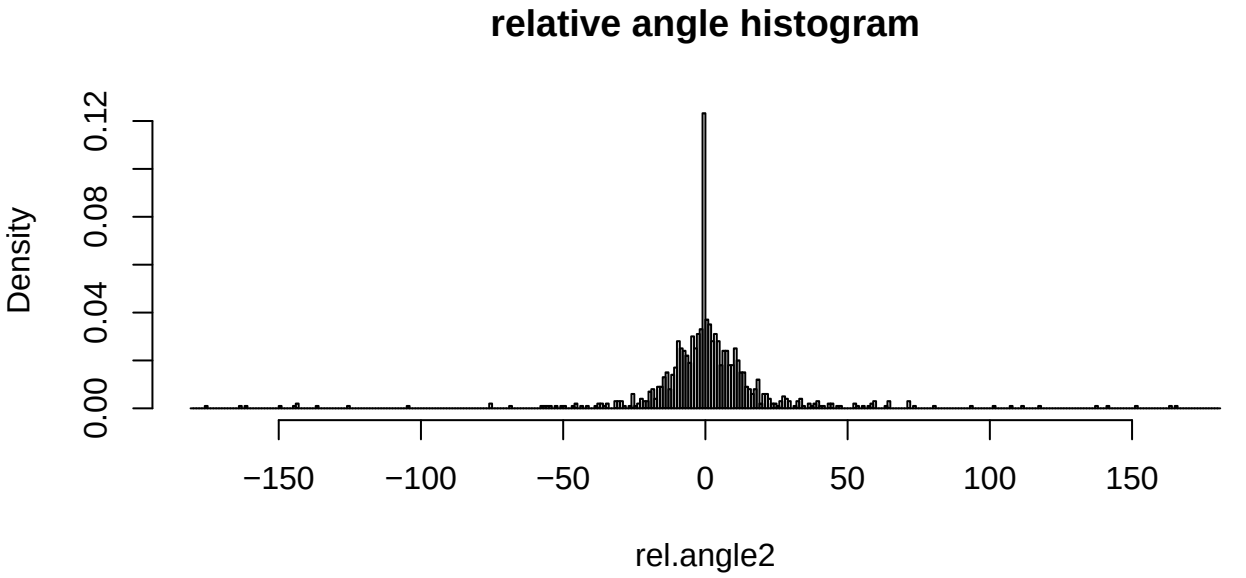

speed average per sec: 158_CSTP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

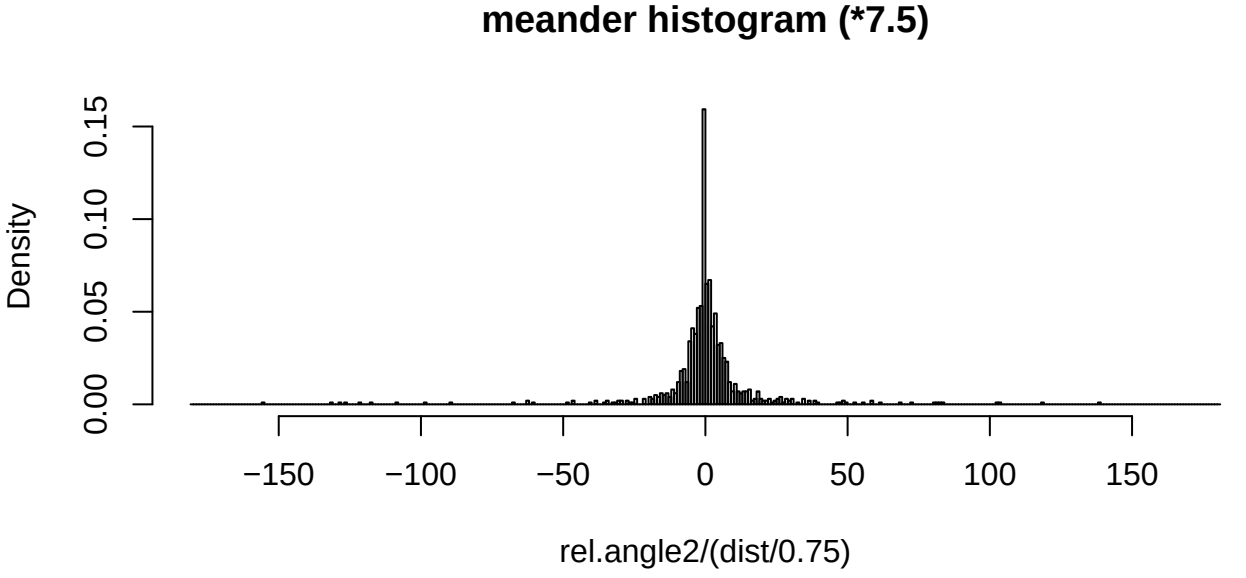

speed average per sec: 158_CSTP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

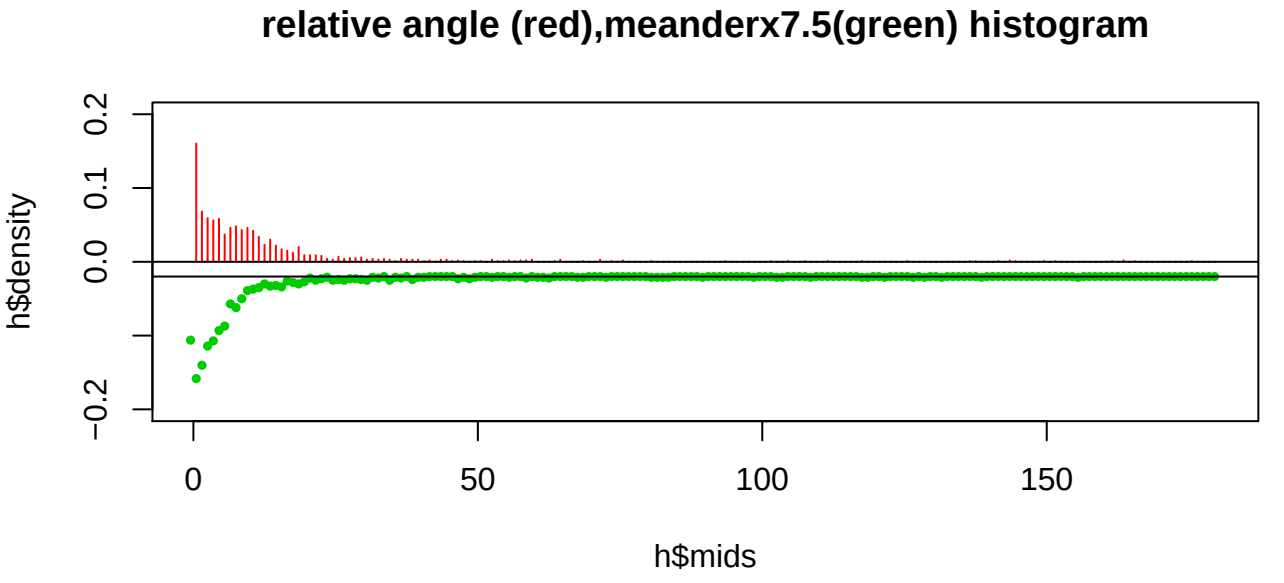

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

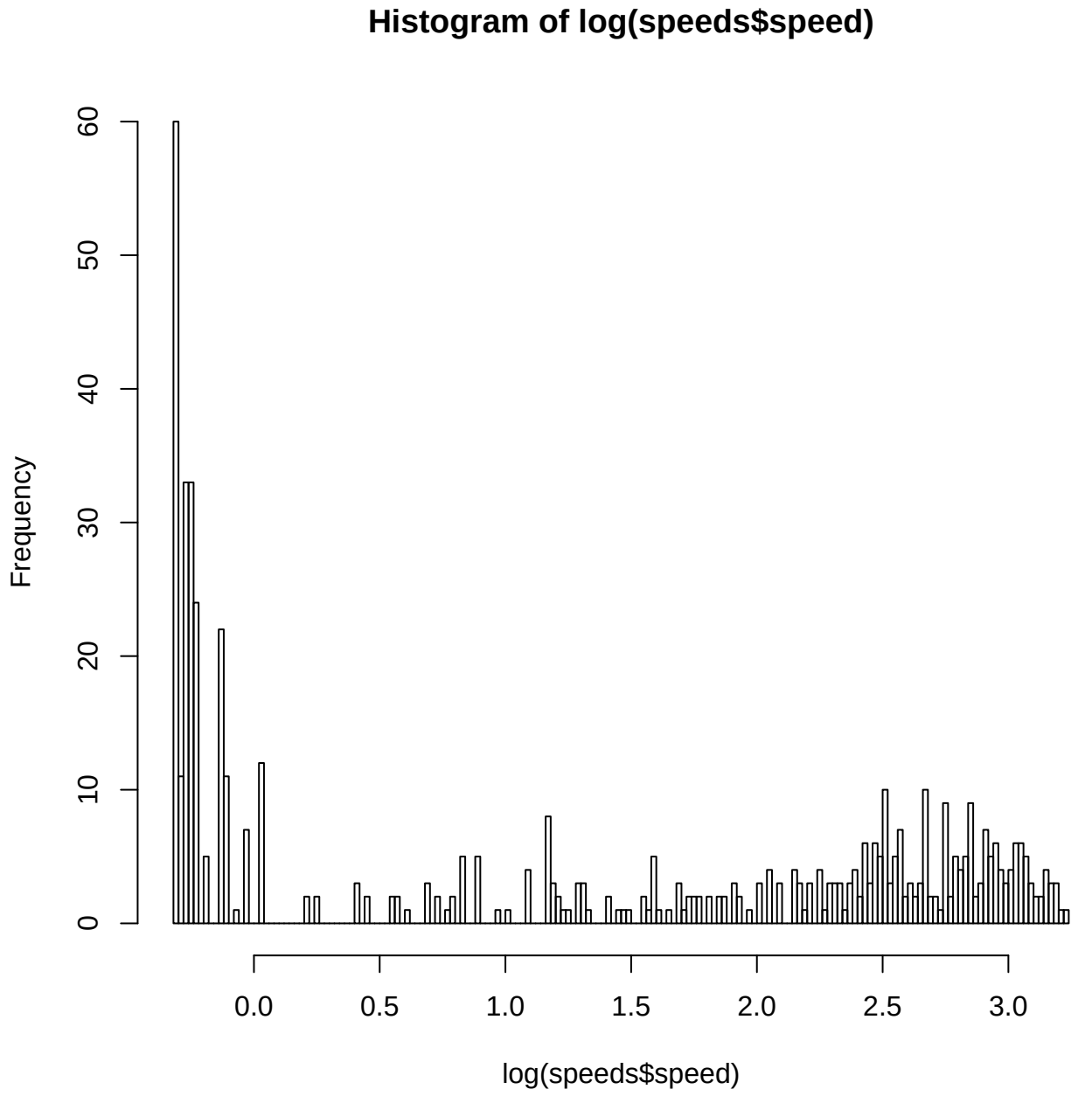

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

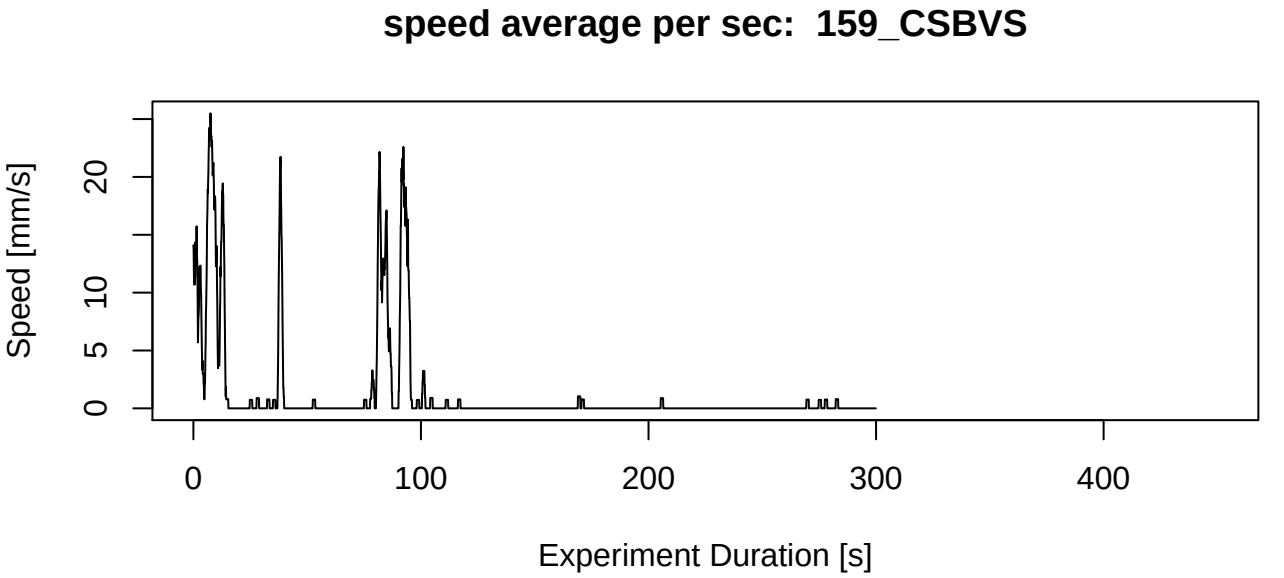

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

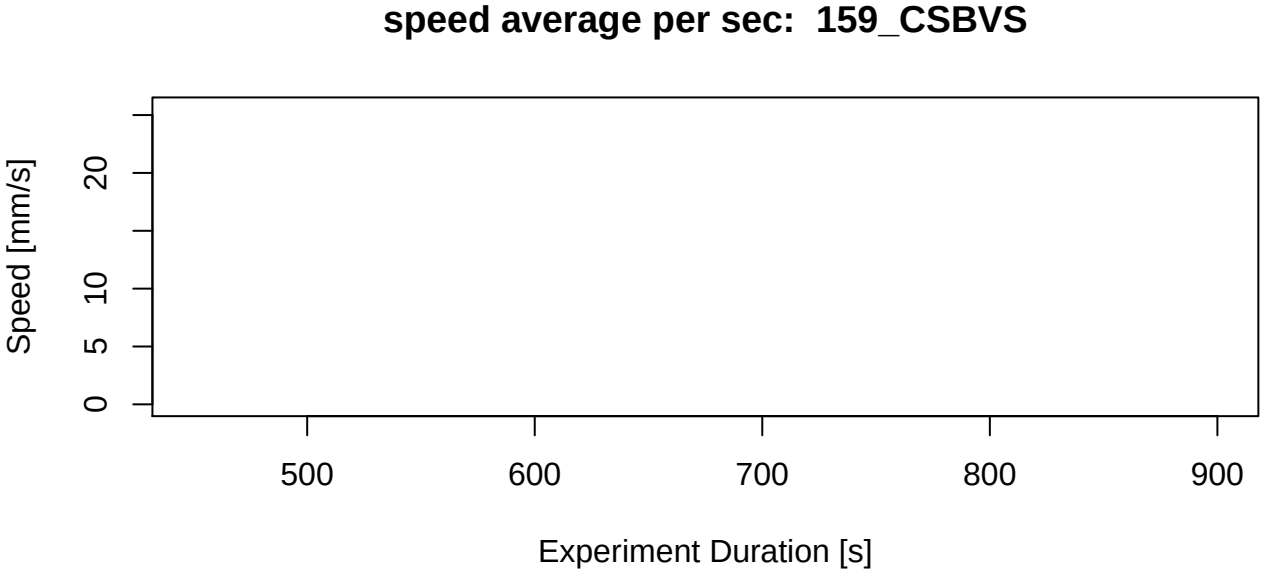

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

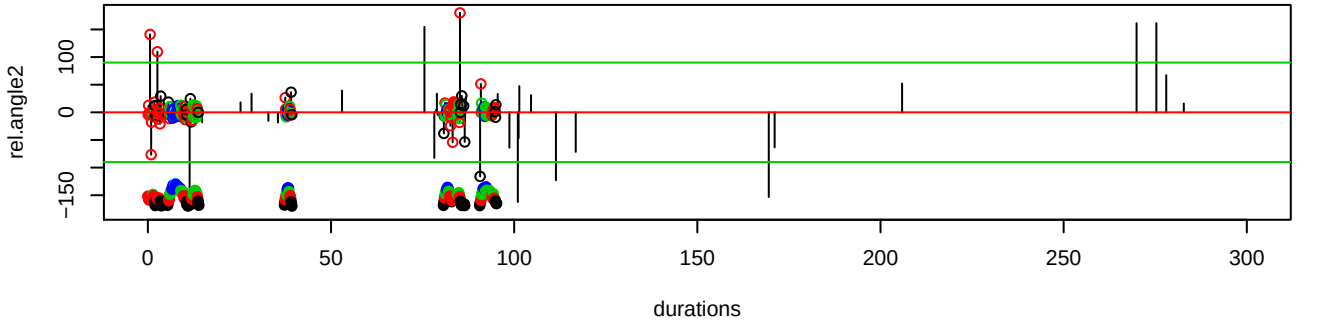

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

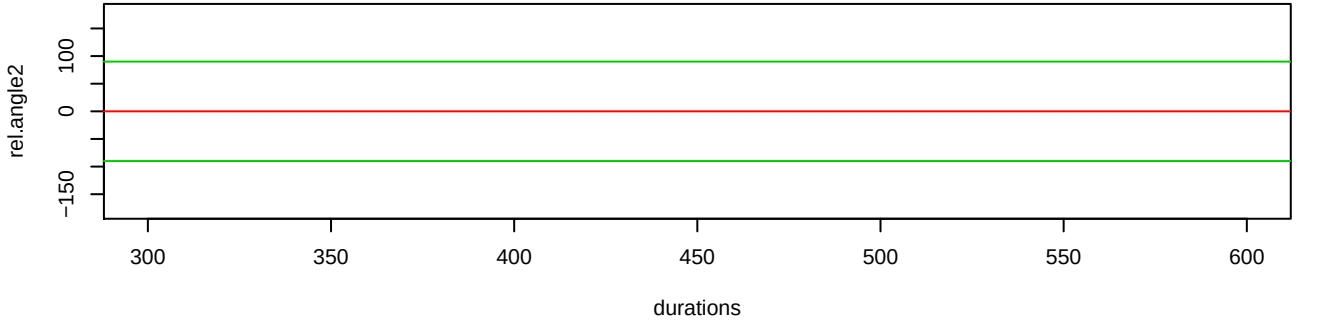

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

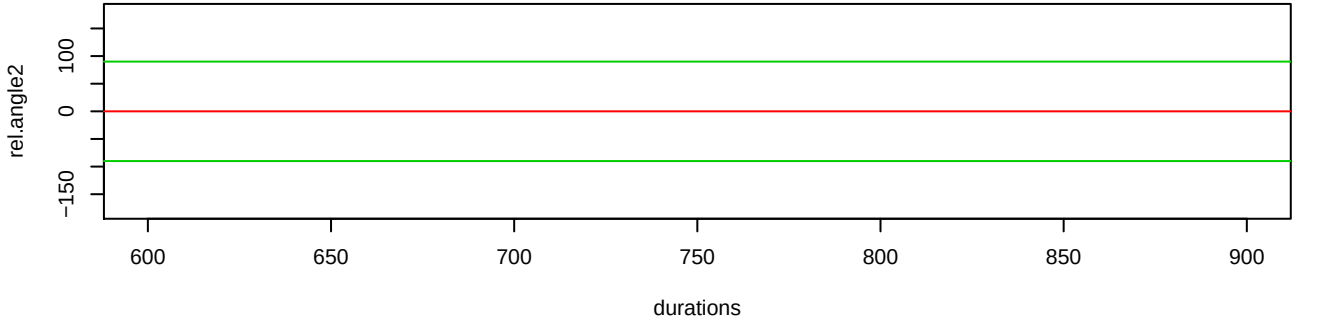

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

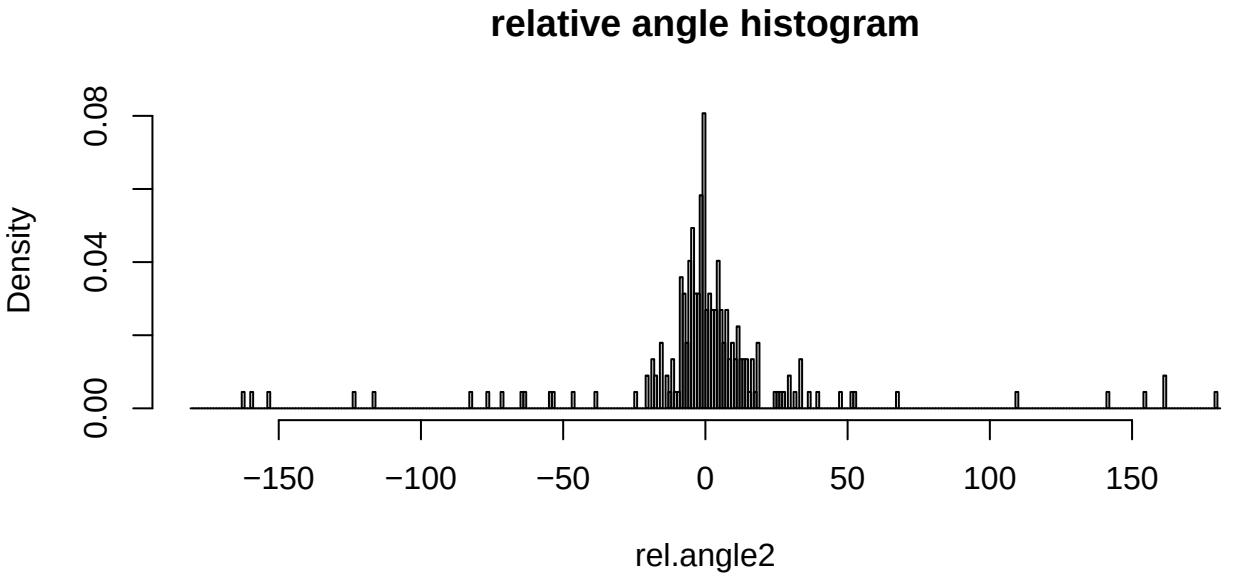

speed average per sec: 159_CSBVS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

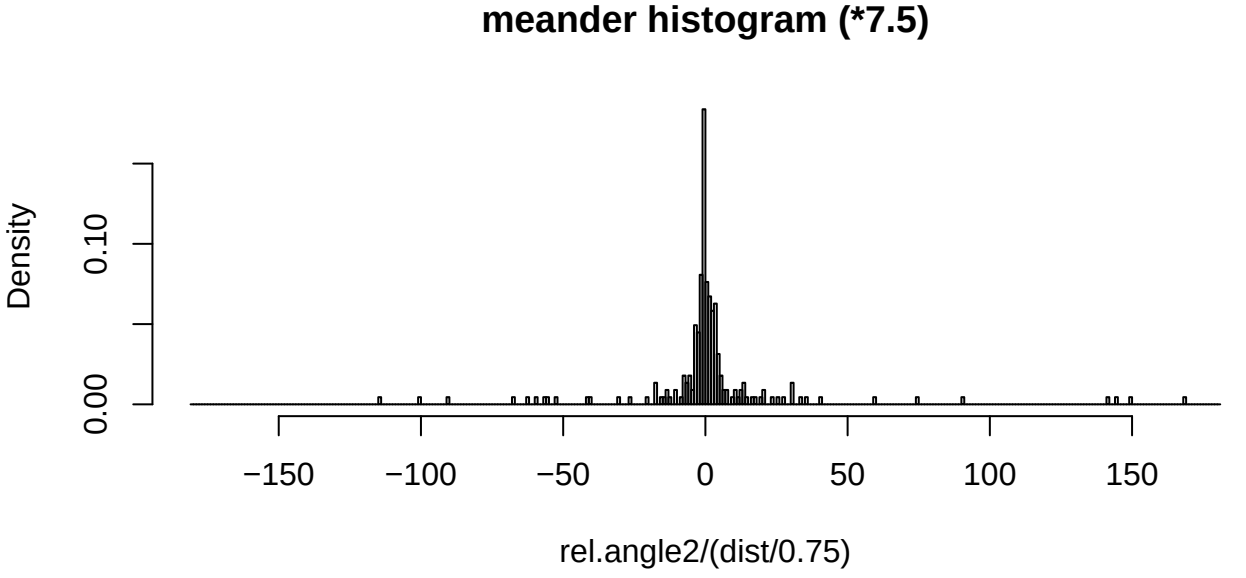

speed average per sec: 159_CSBVS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

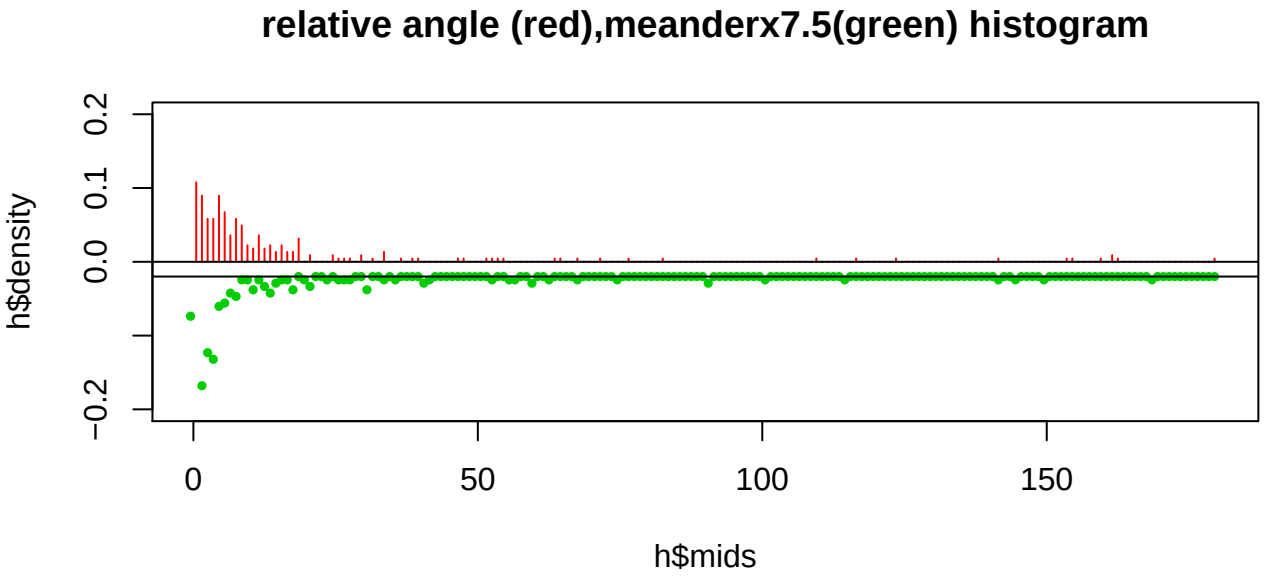

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

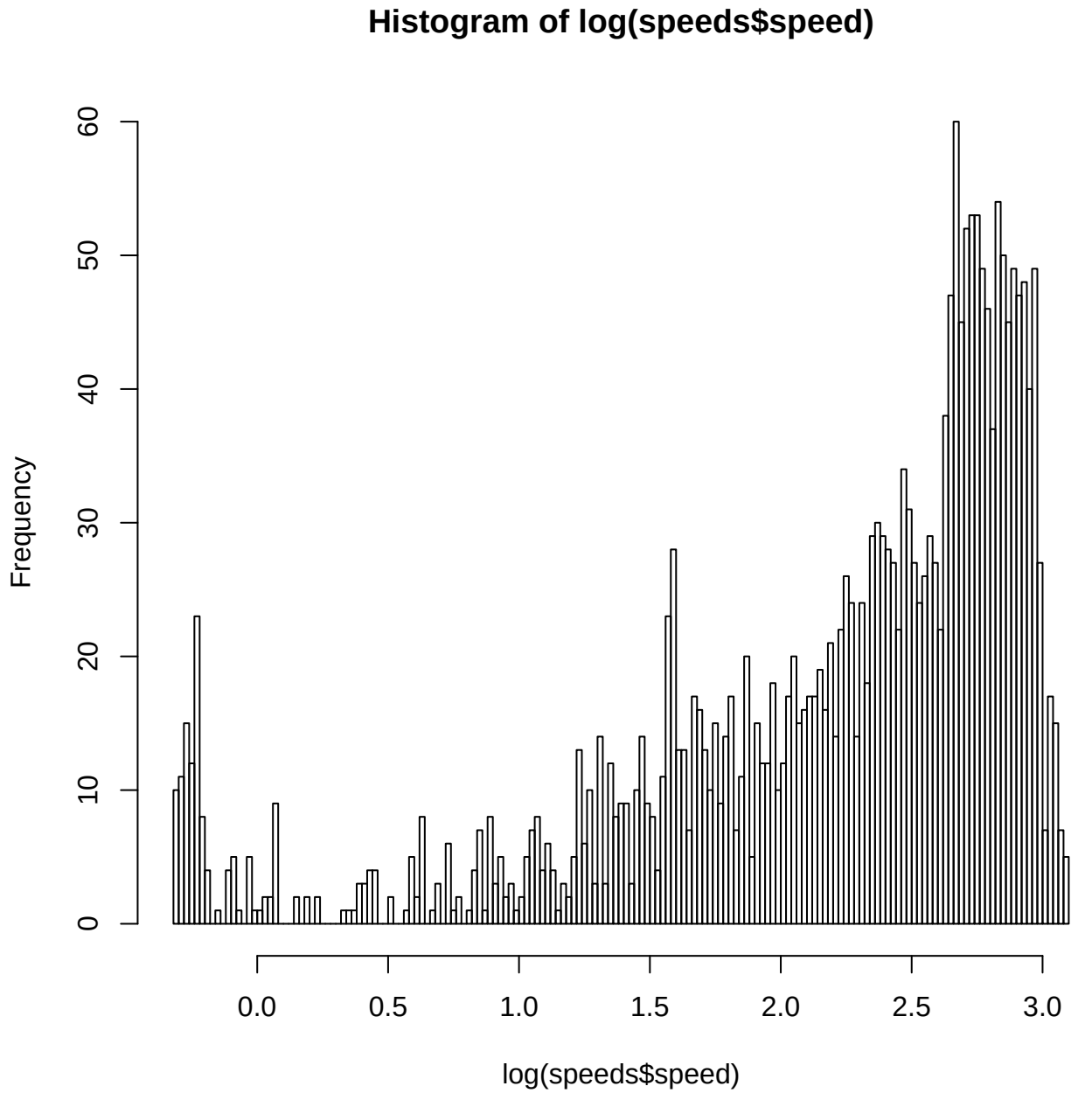

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

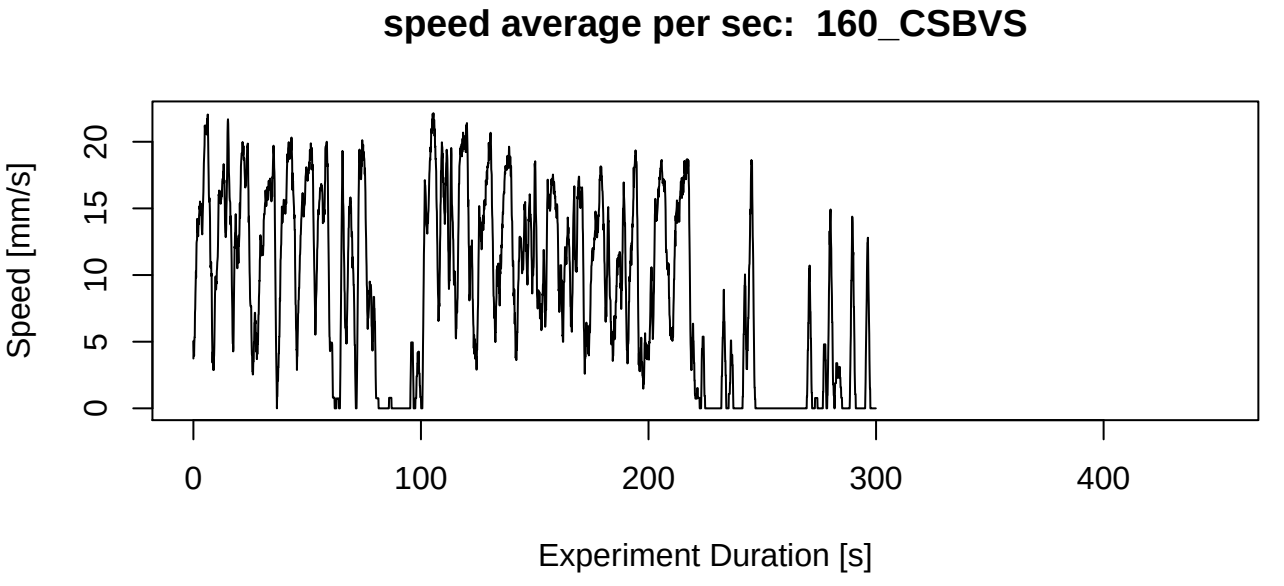

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

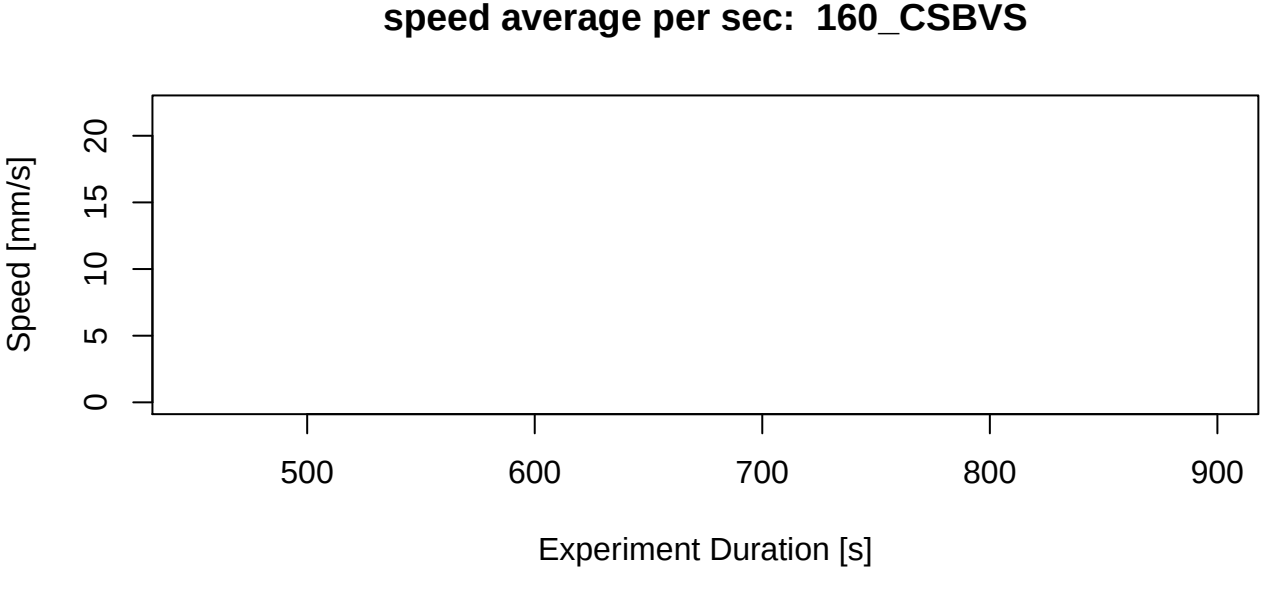

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

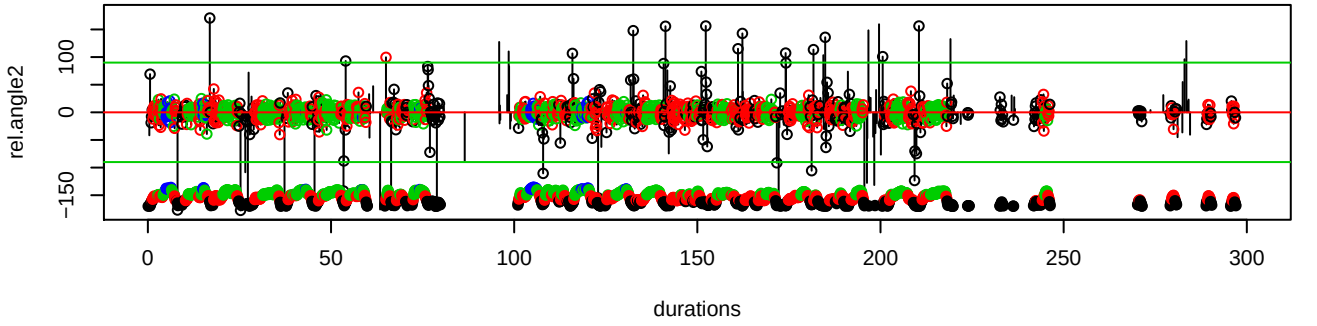

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

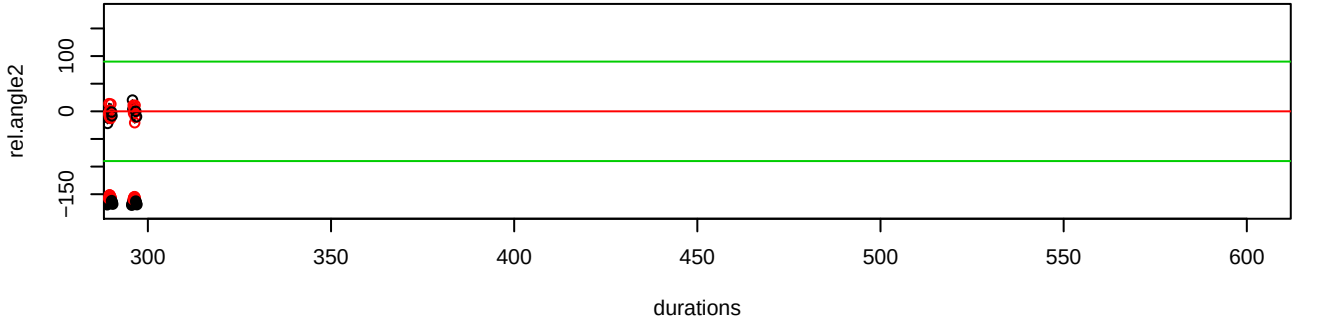

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

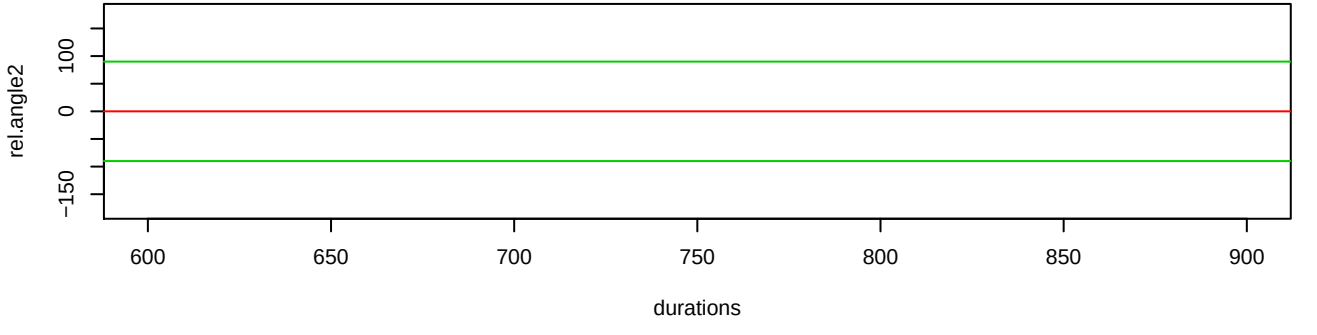

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

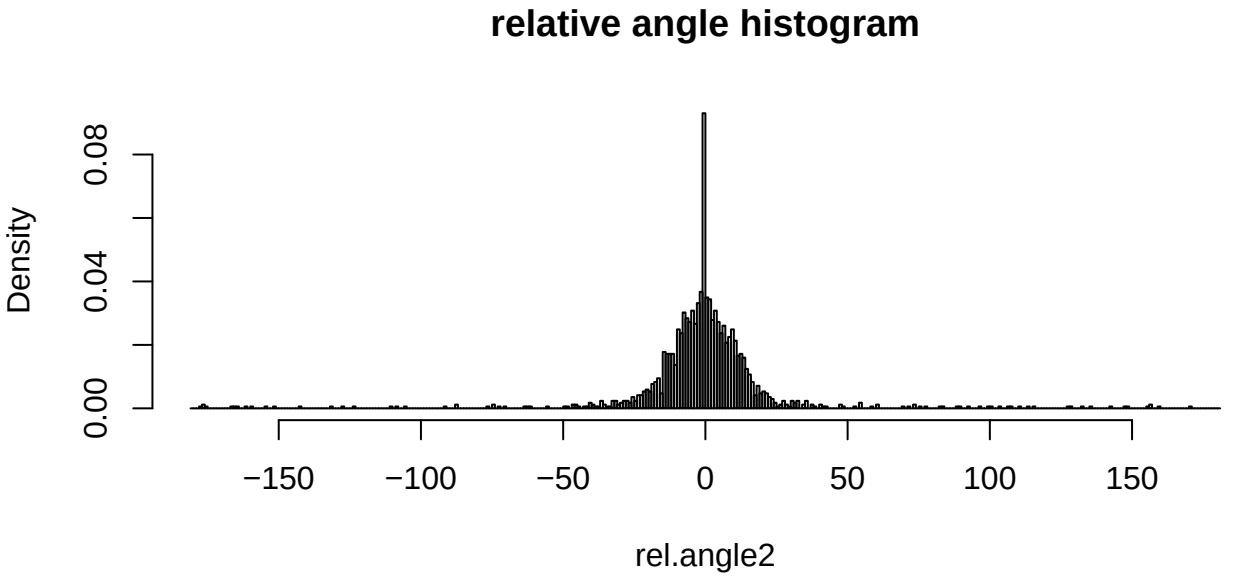

speed average per sec: 160_CSBVS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

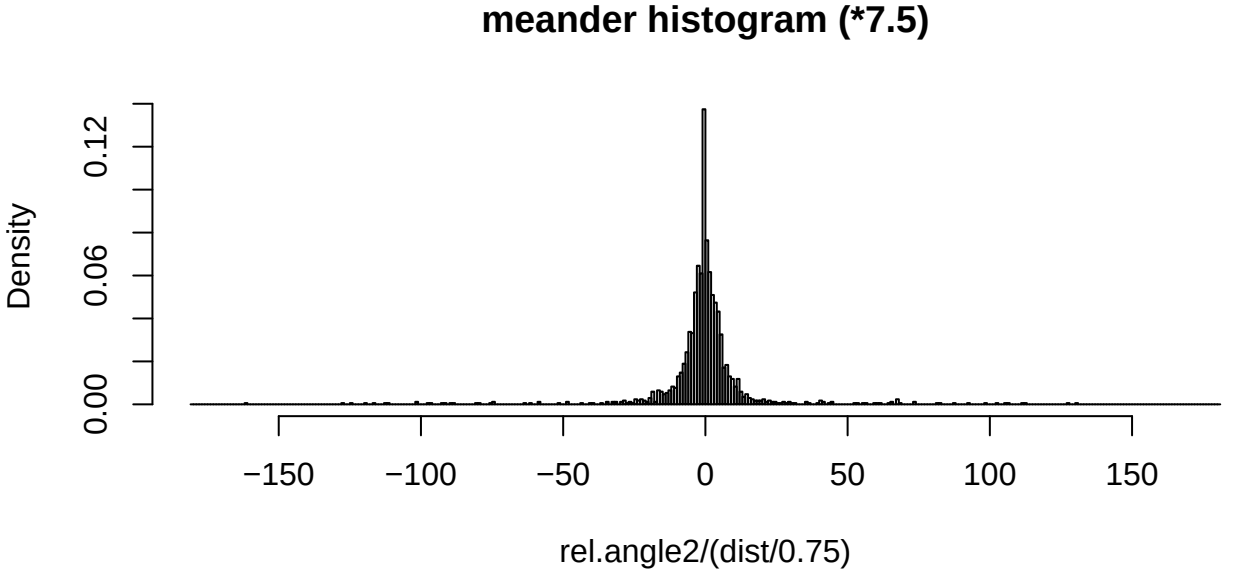

speed average per sec: 160_CSBVS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

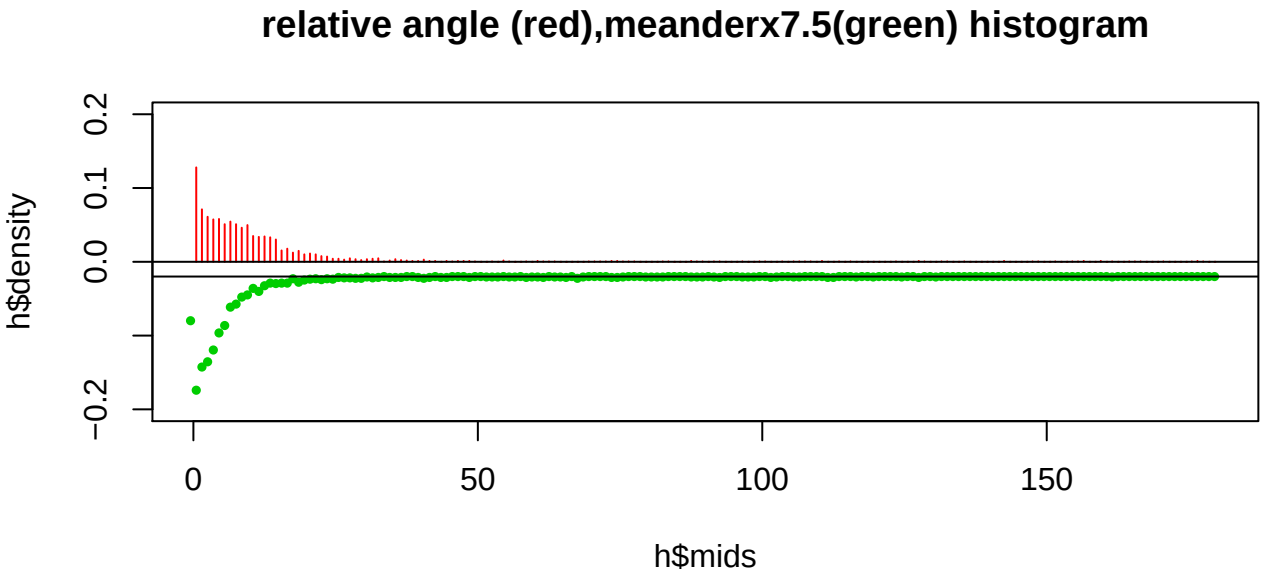

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

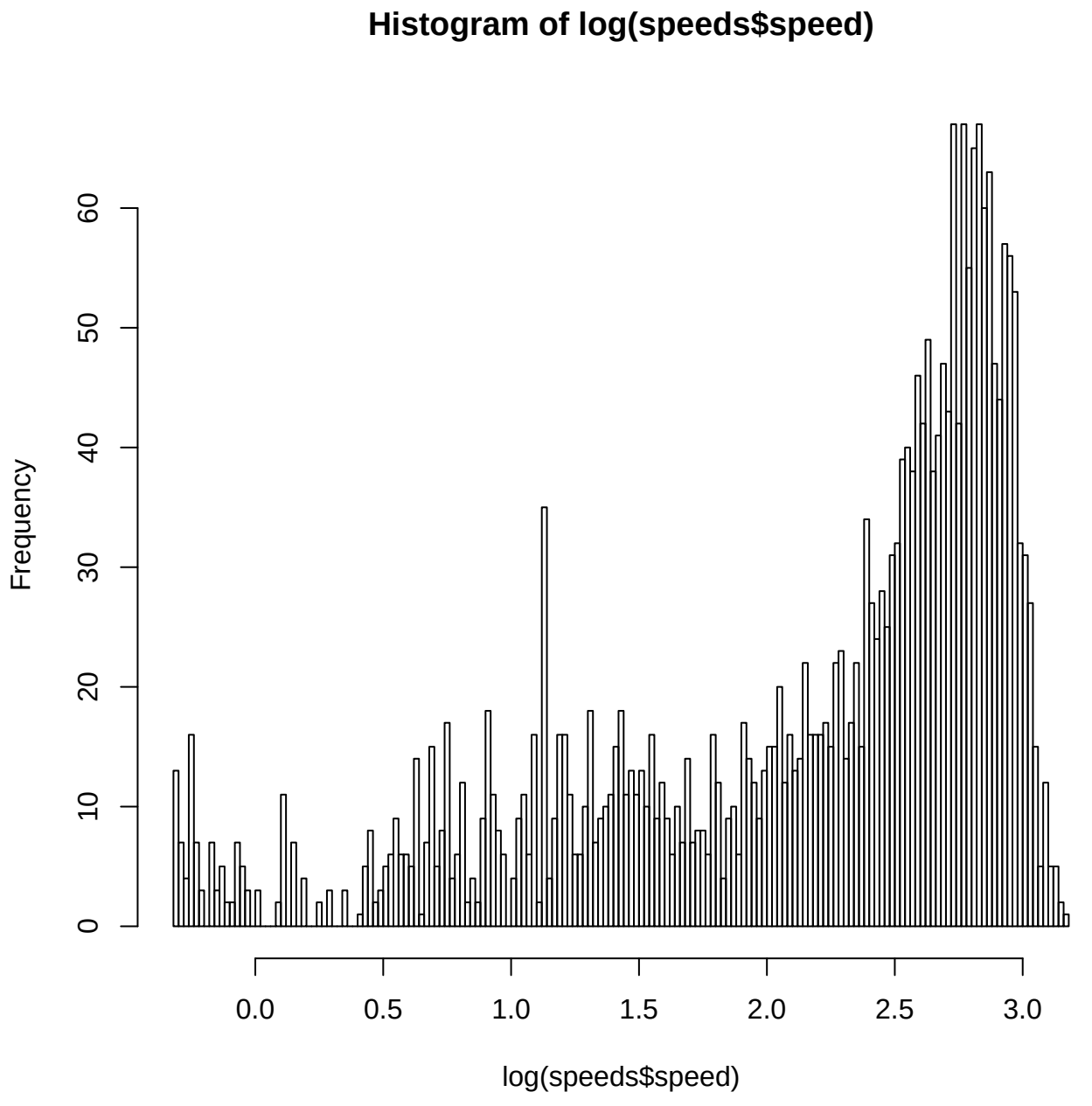

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

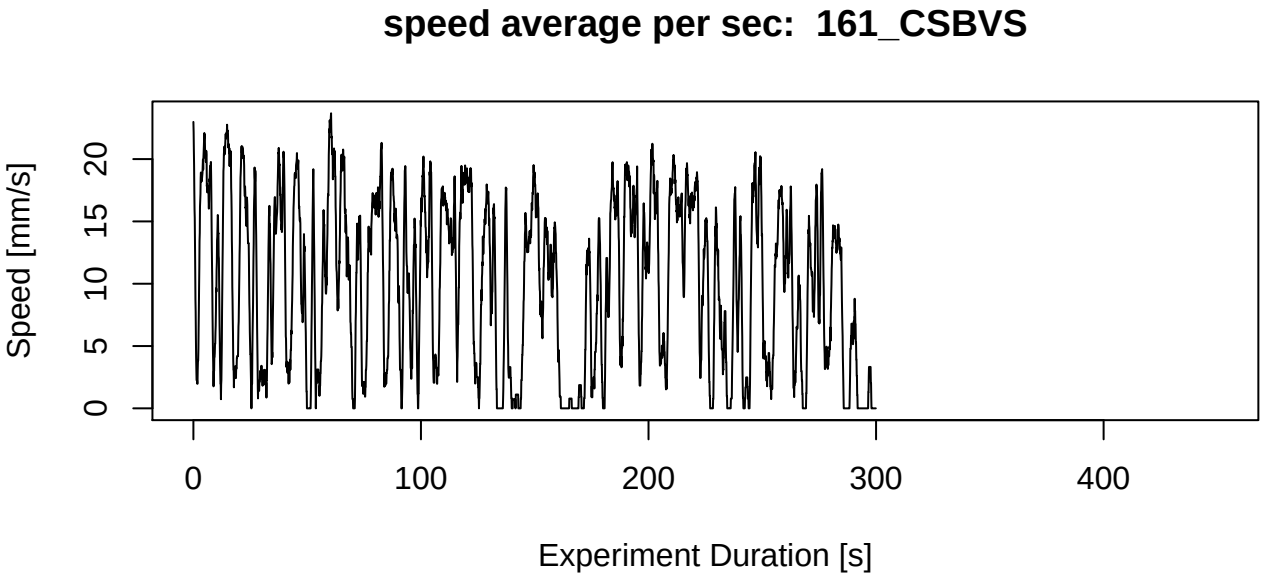

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

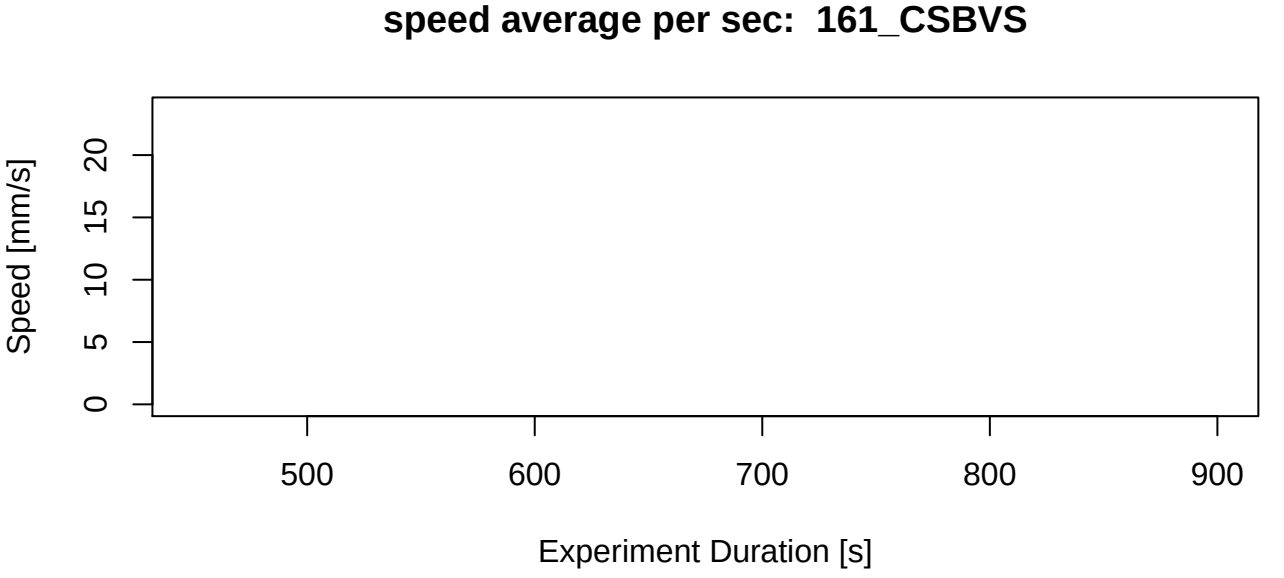

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

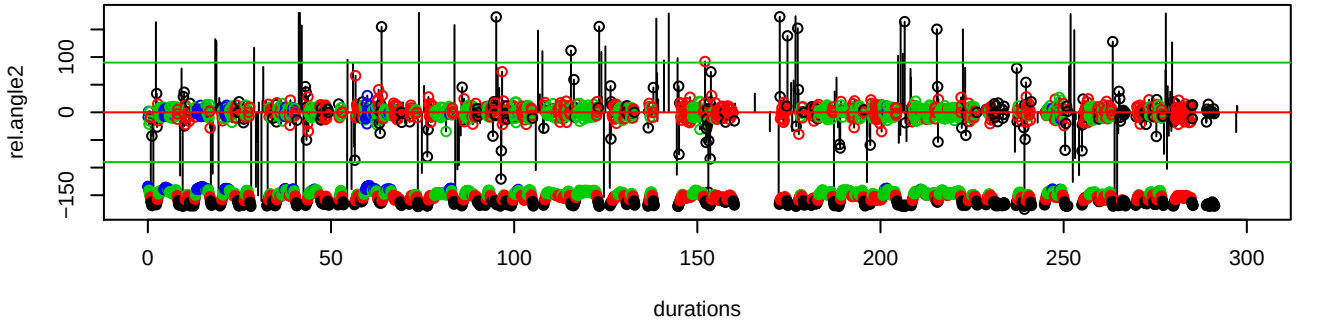

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

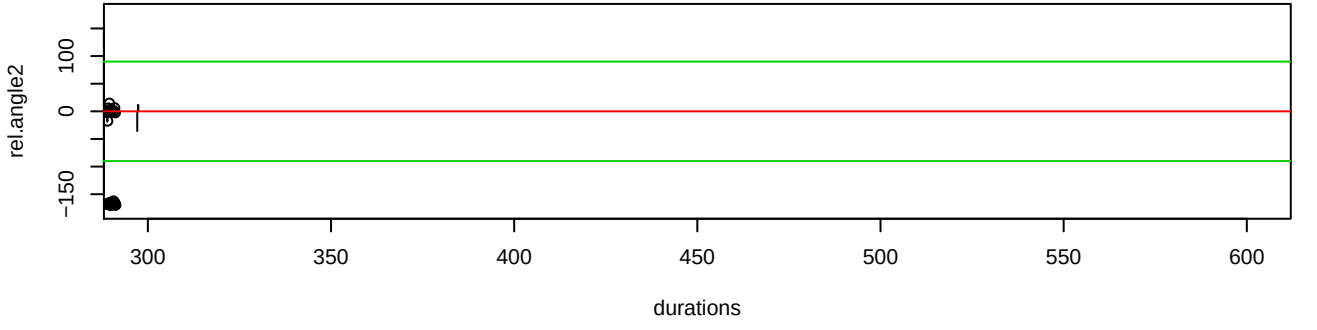

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

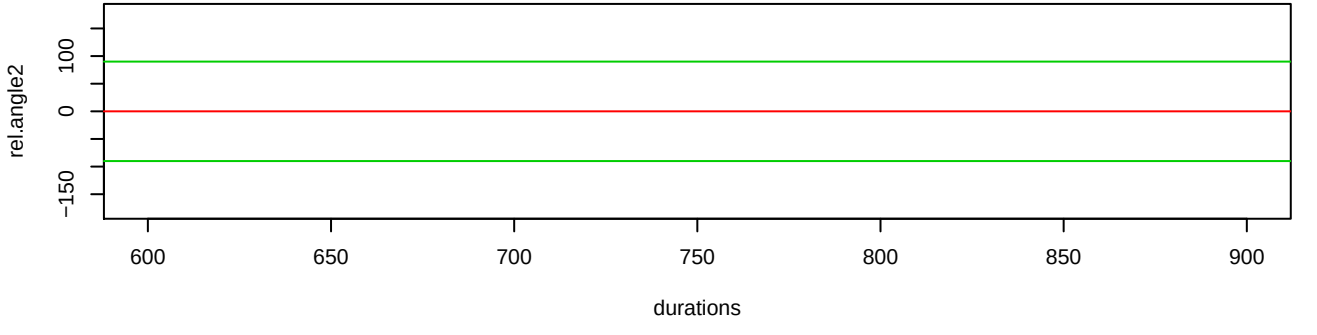

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

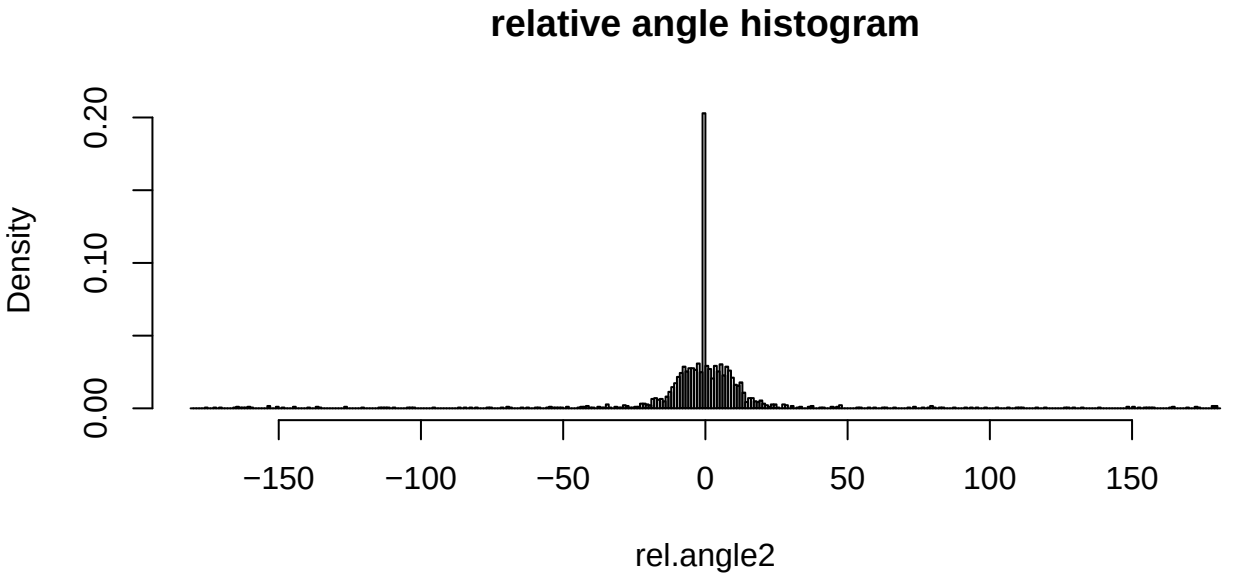

speed average per sec: 161_CSBVS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

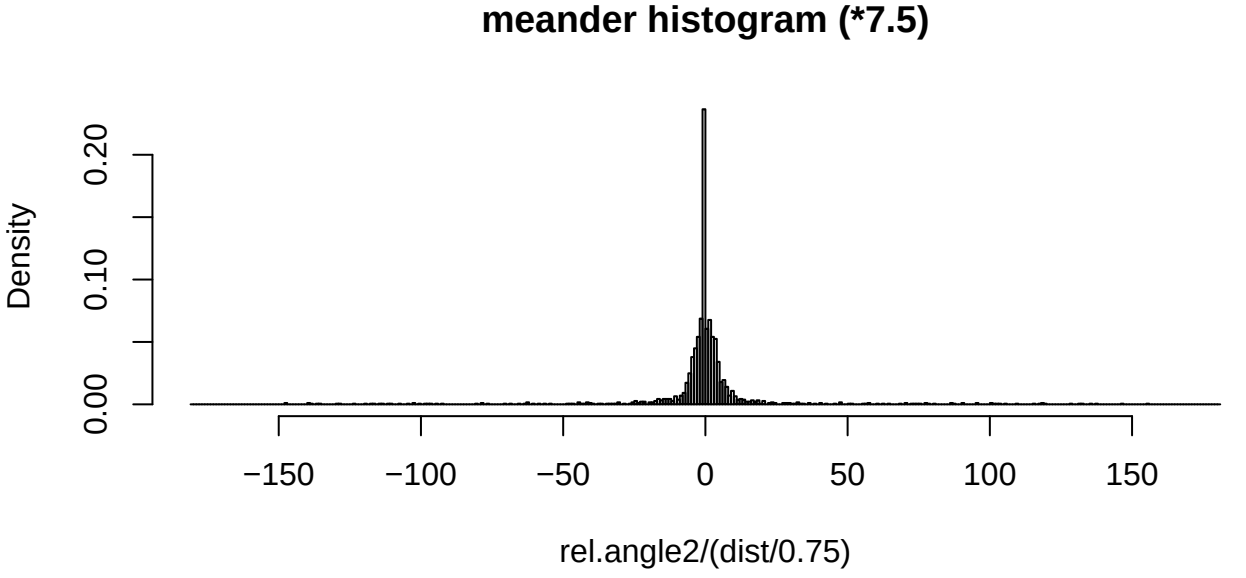

speed average per sec: 161_CSBVS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

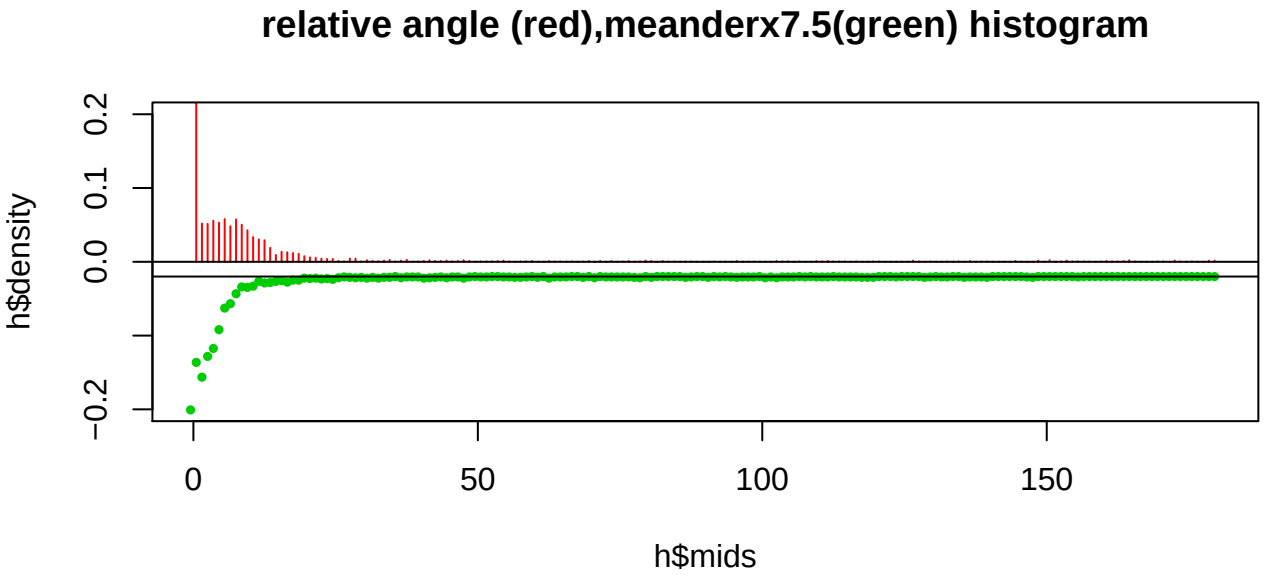

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

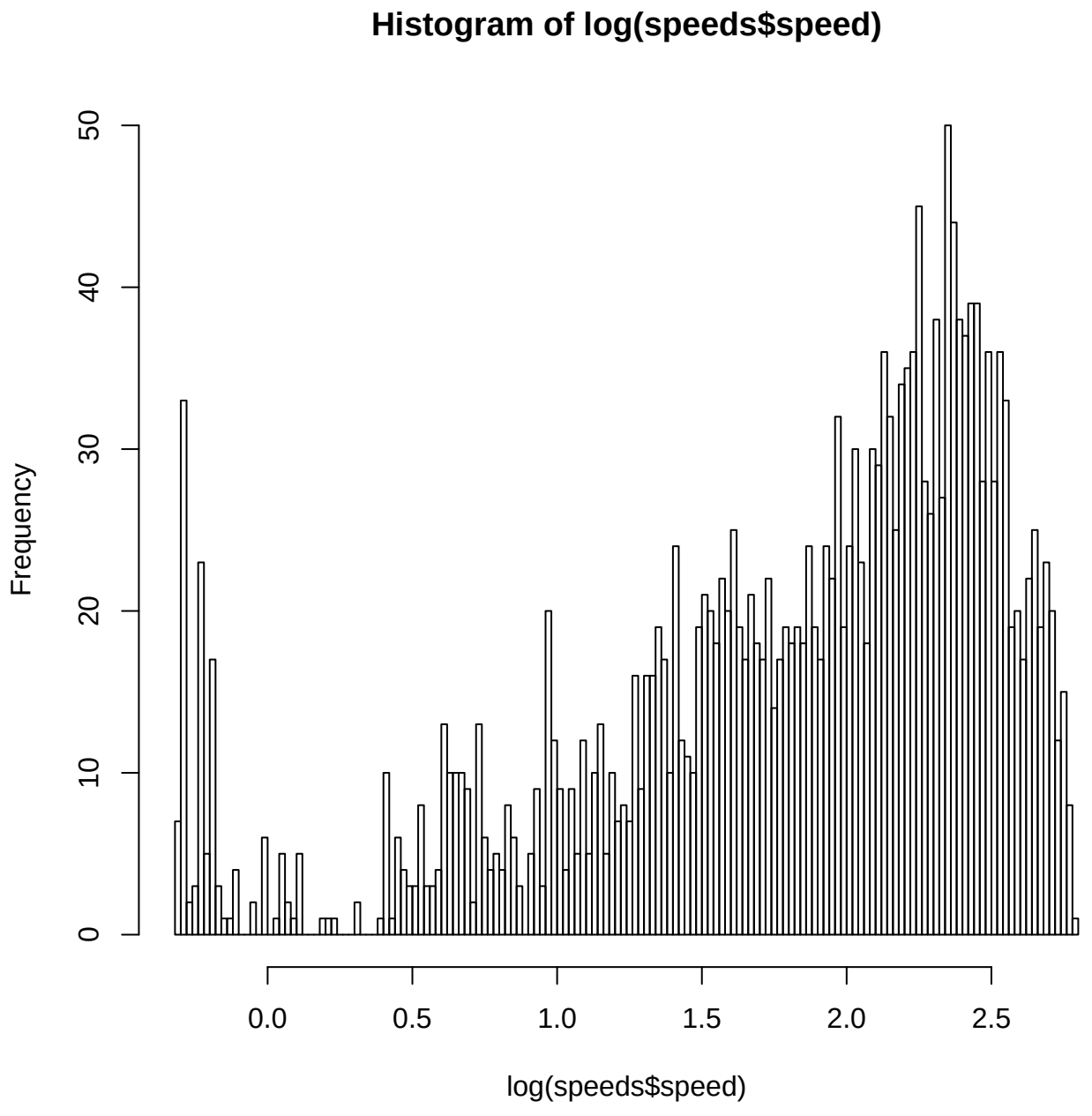

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

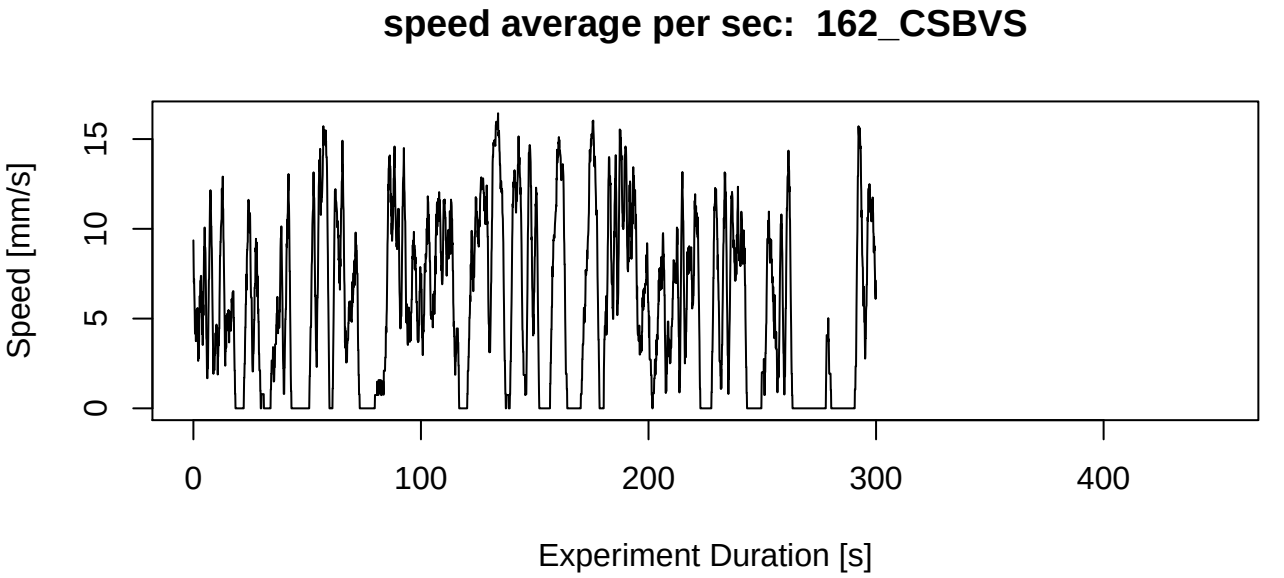

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

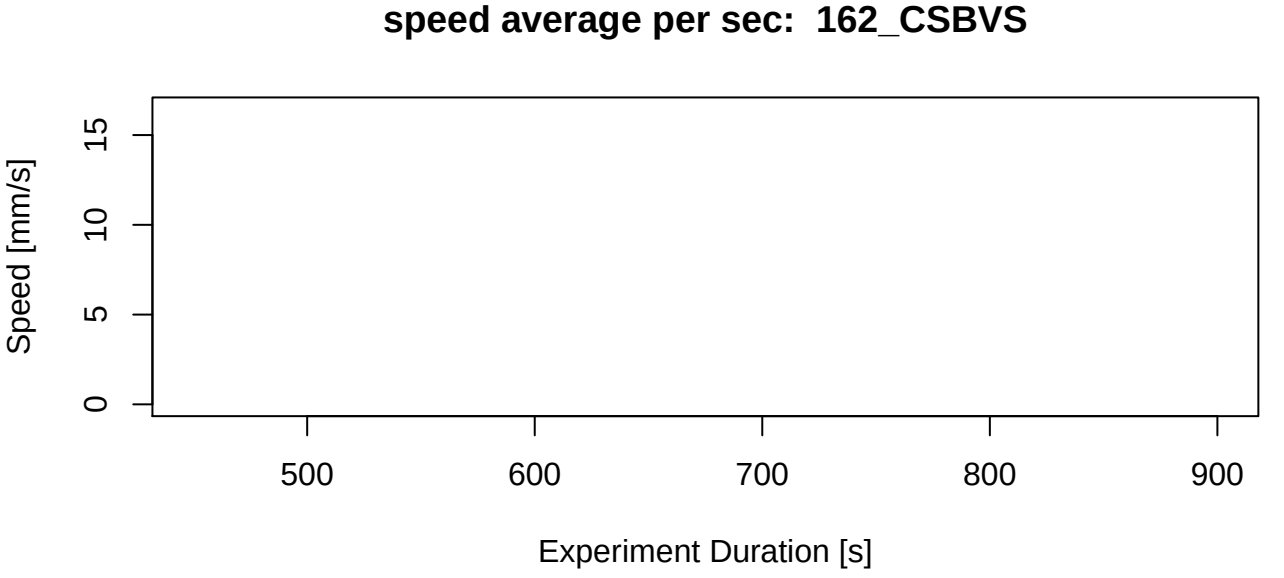

relative angle histogram
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2

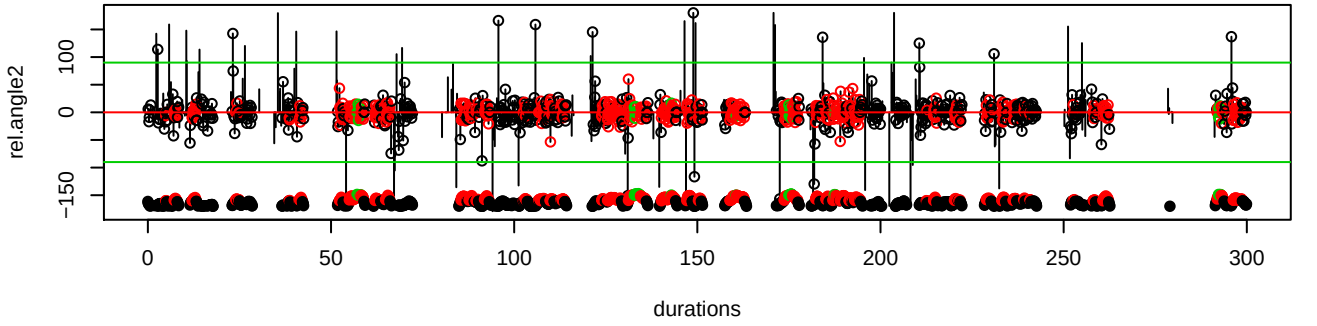

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

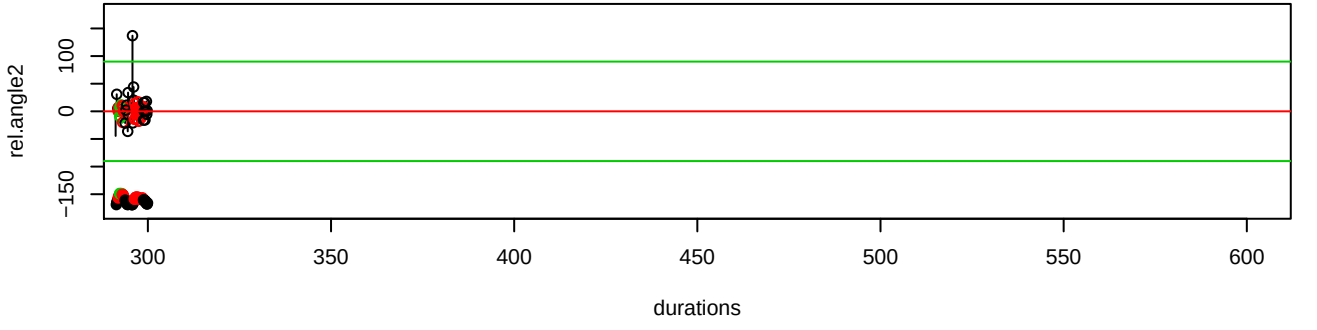

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

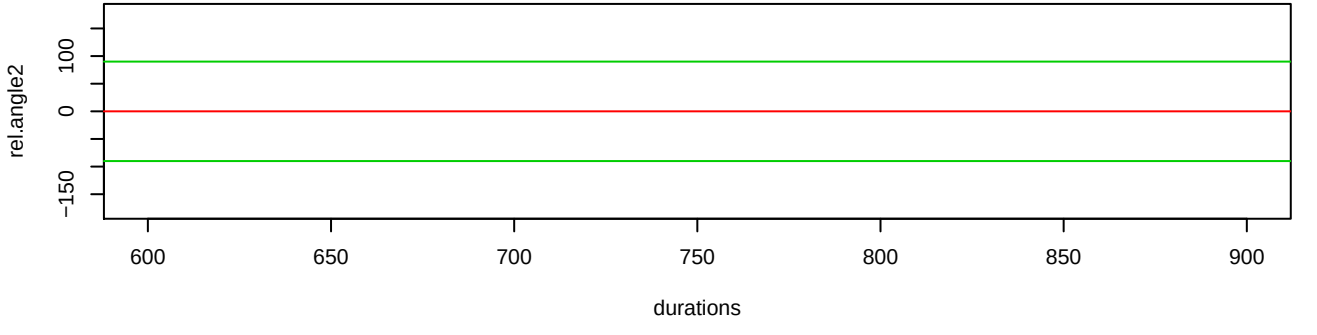

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

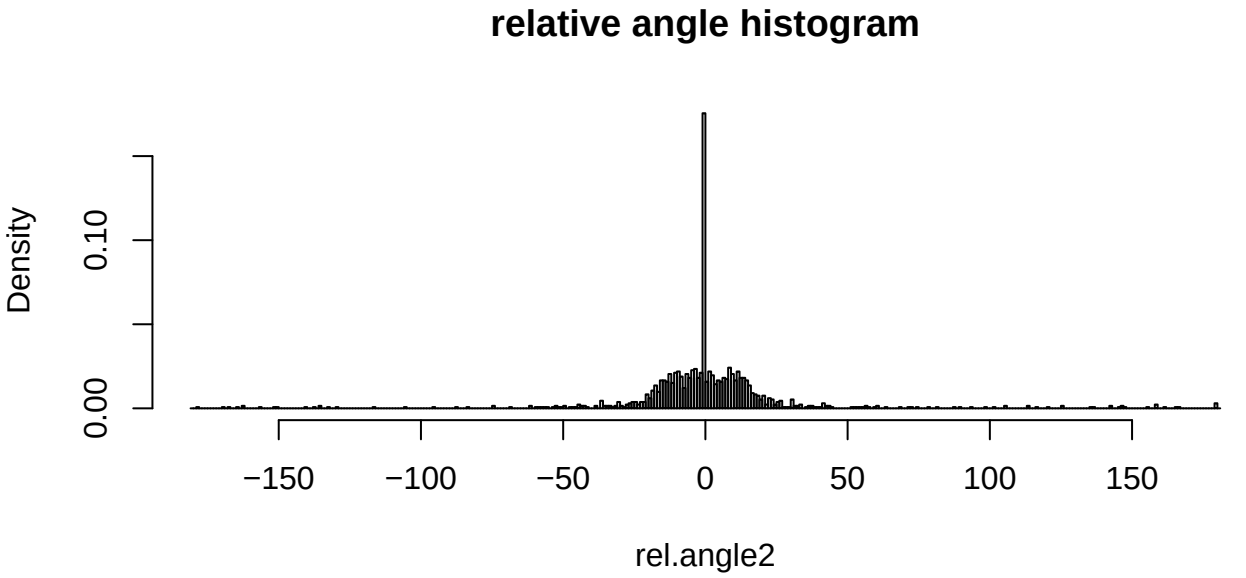

speed average per sec: 162_CSBVS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

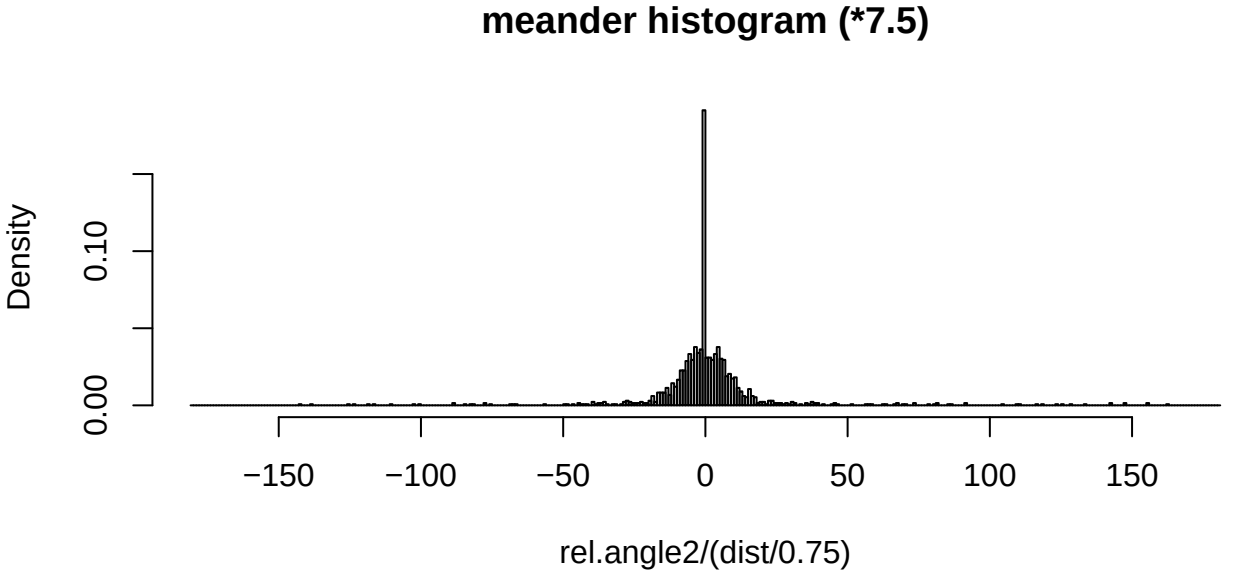

speed average per sec: 162_CSBVS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

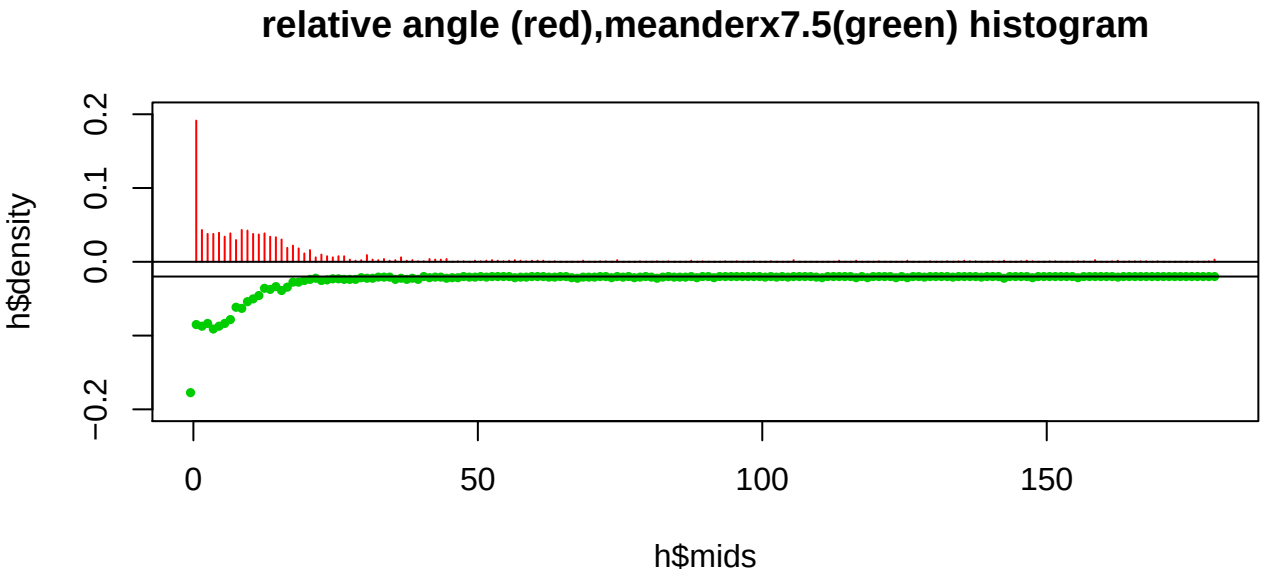

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

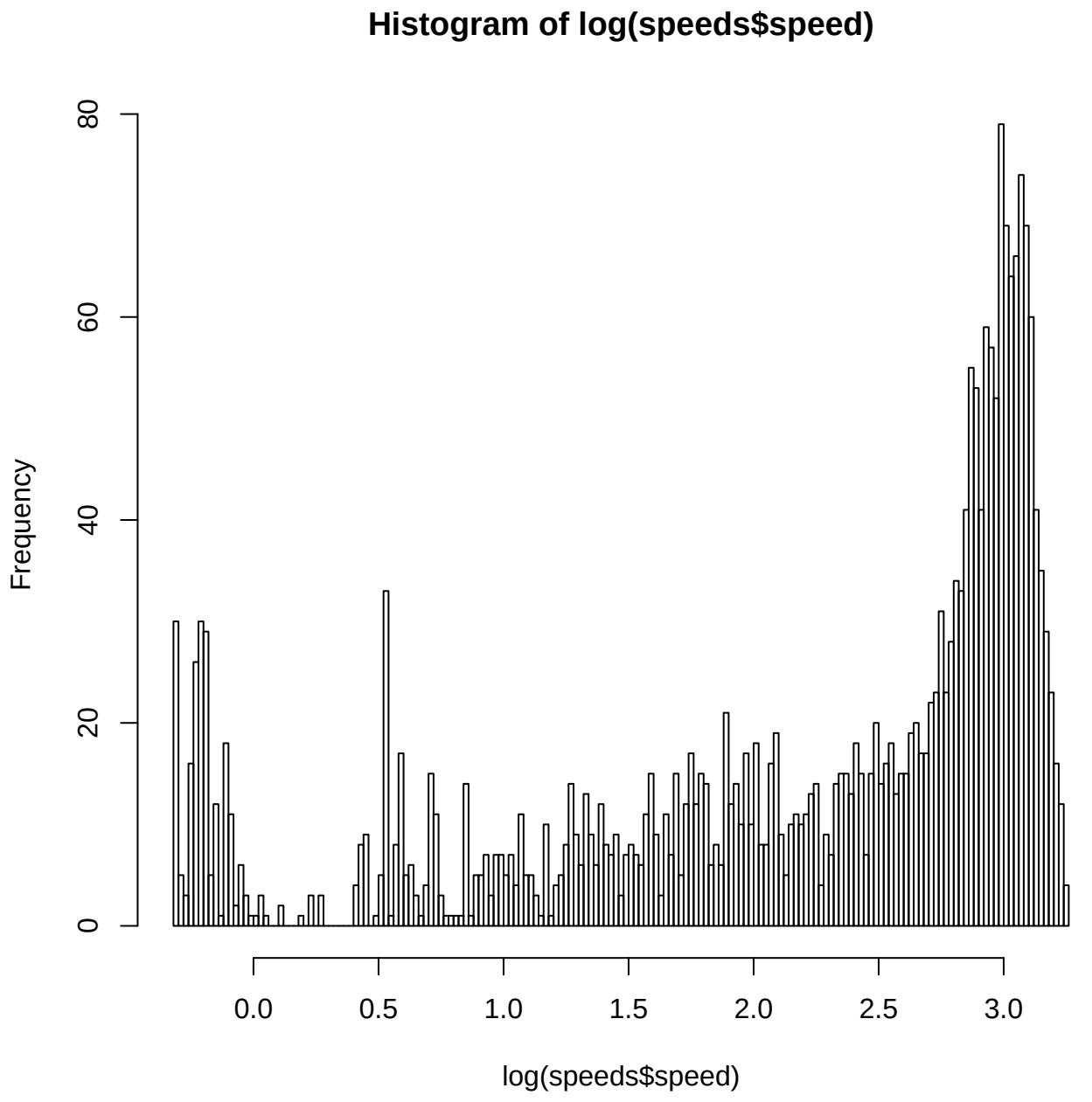

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

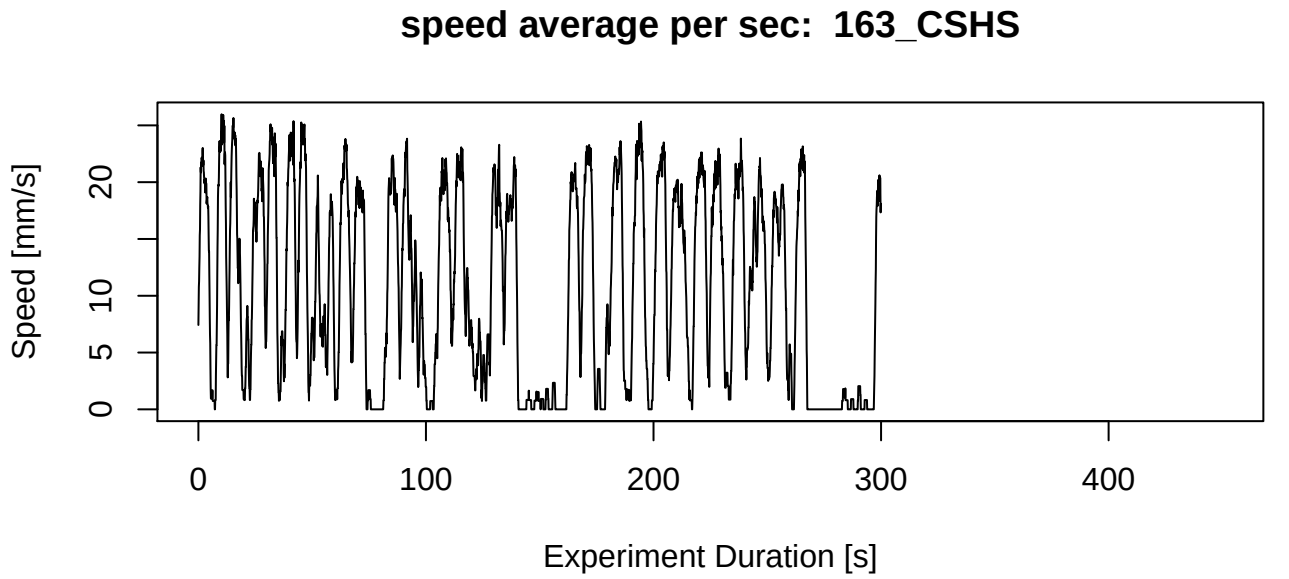

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

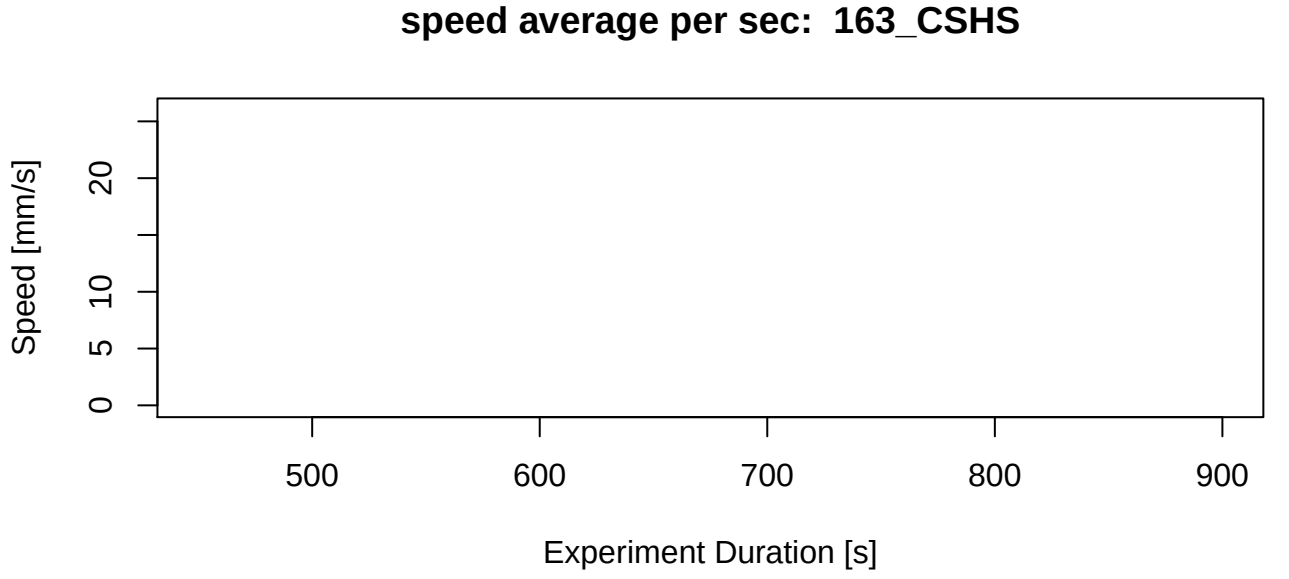

relative angle histogram
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2

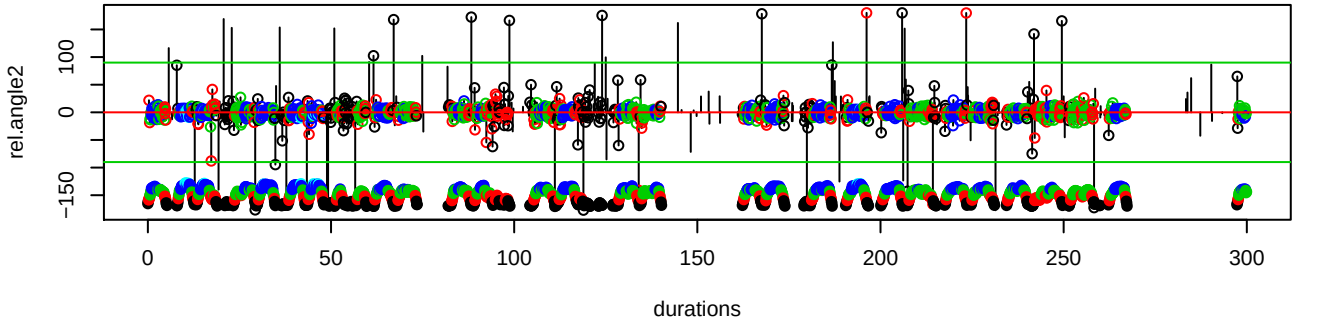

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

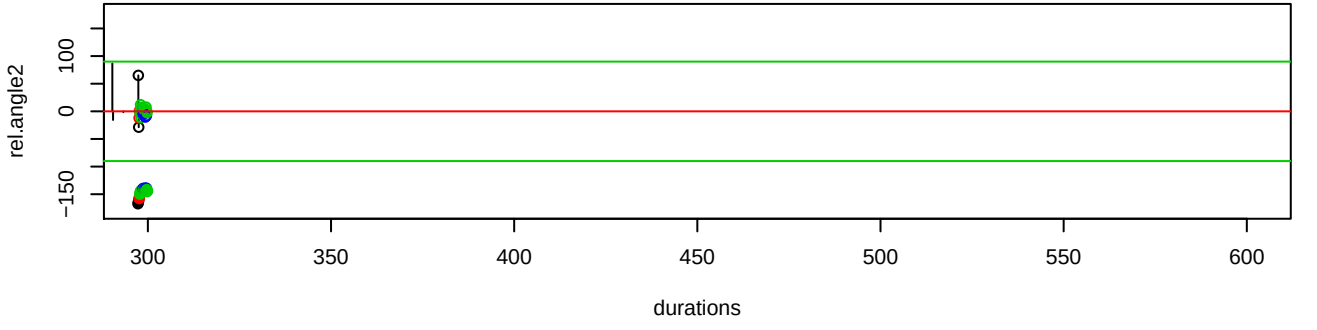

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

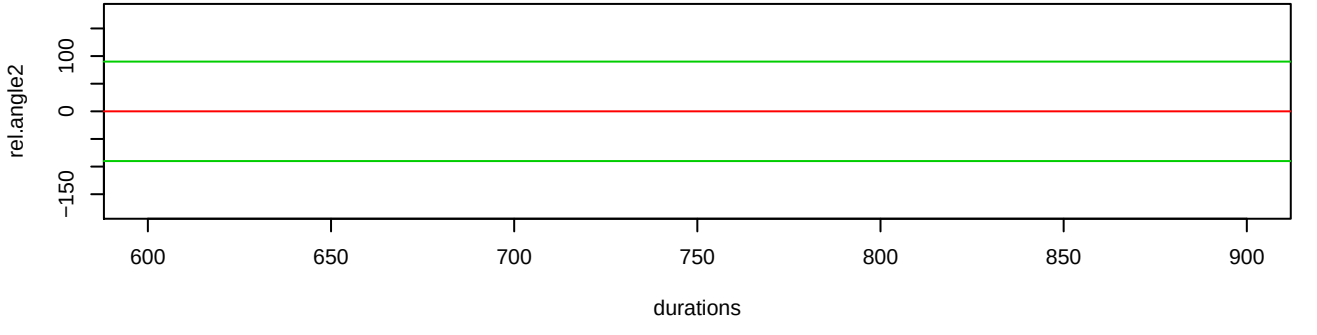

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

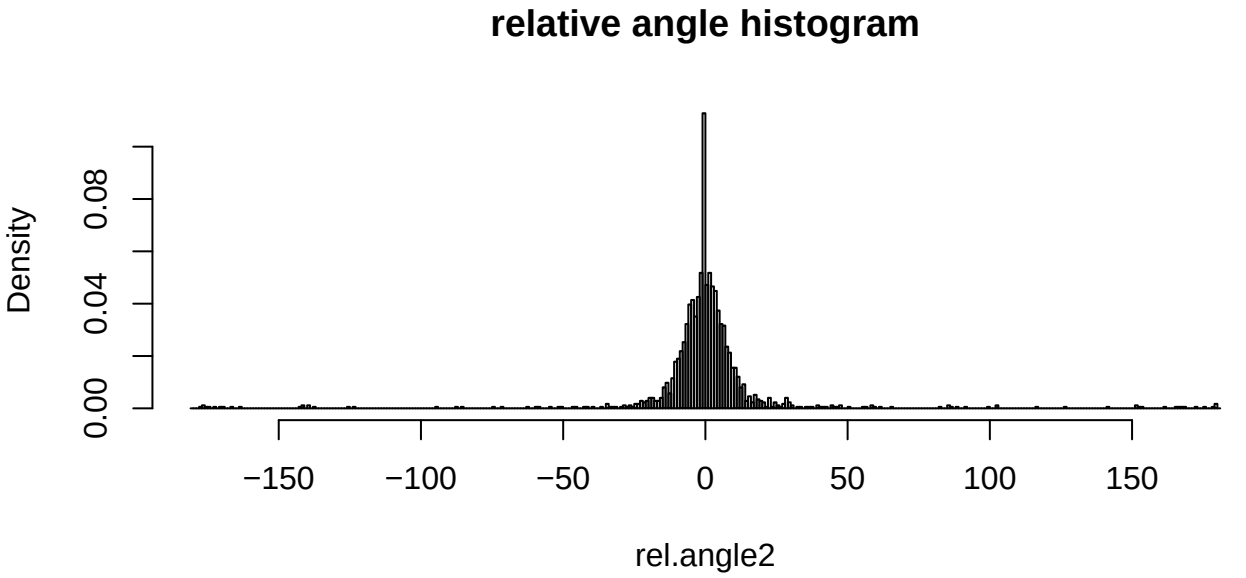

speed average per sec: 163_CSHS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

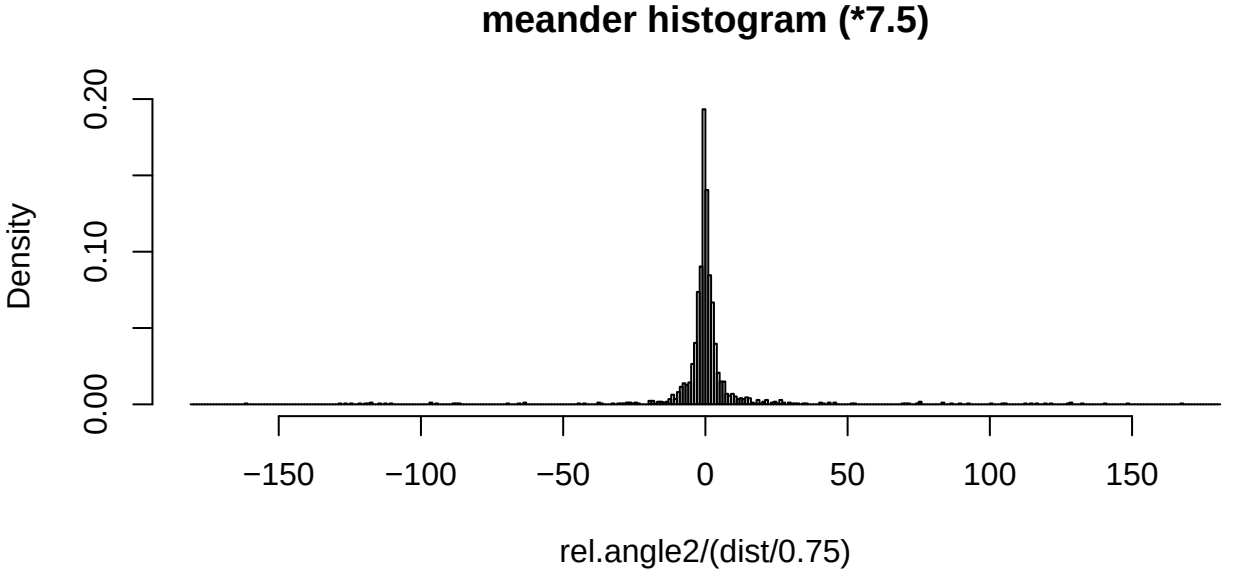

speed average per sec: 163_CSHS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

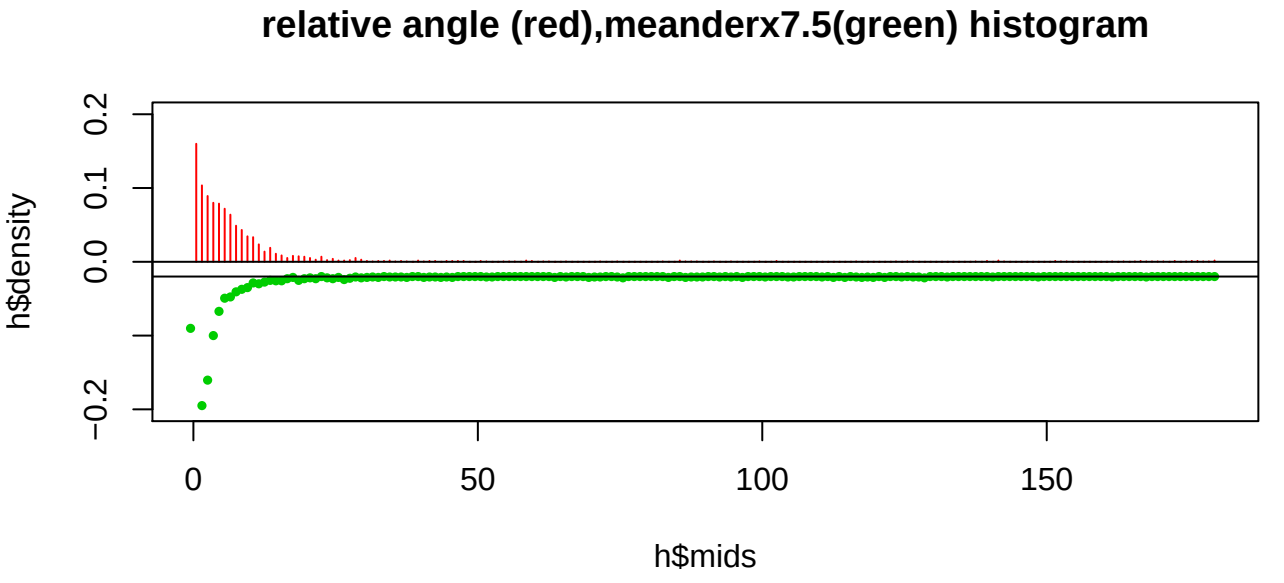

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

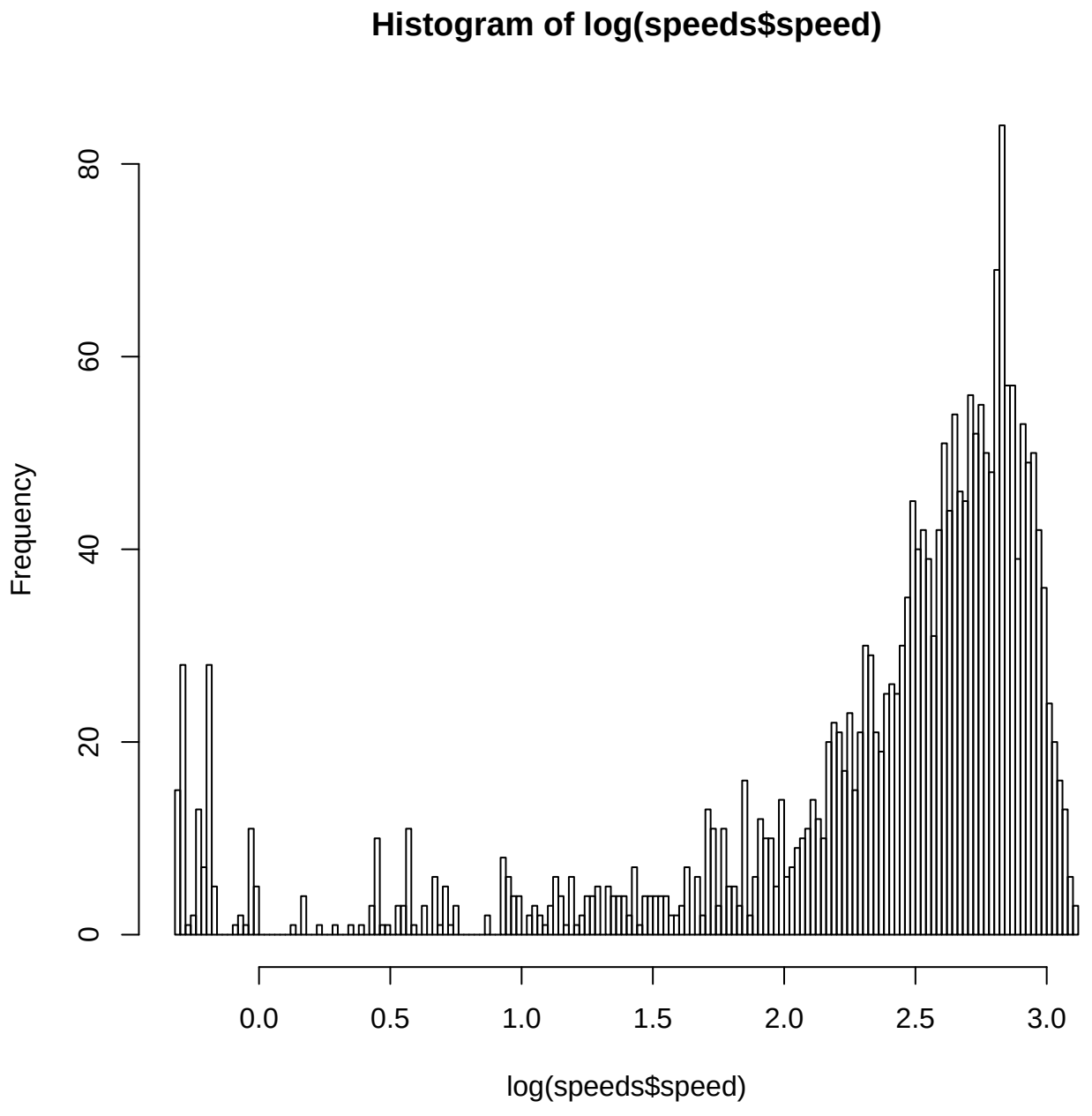

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

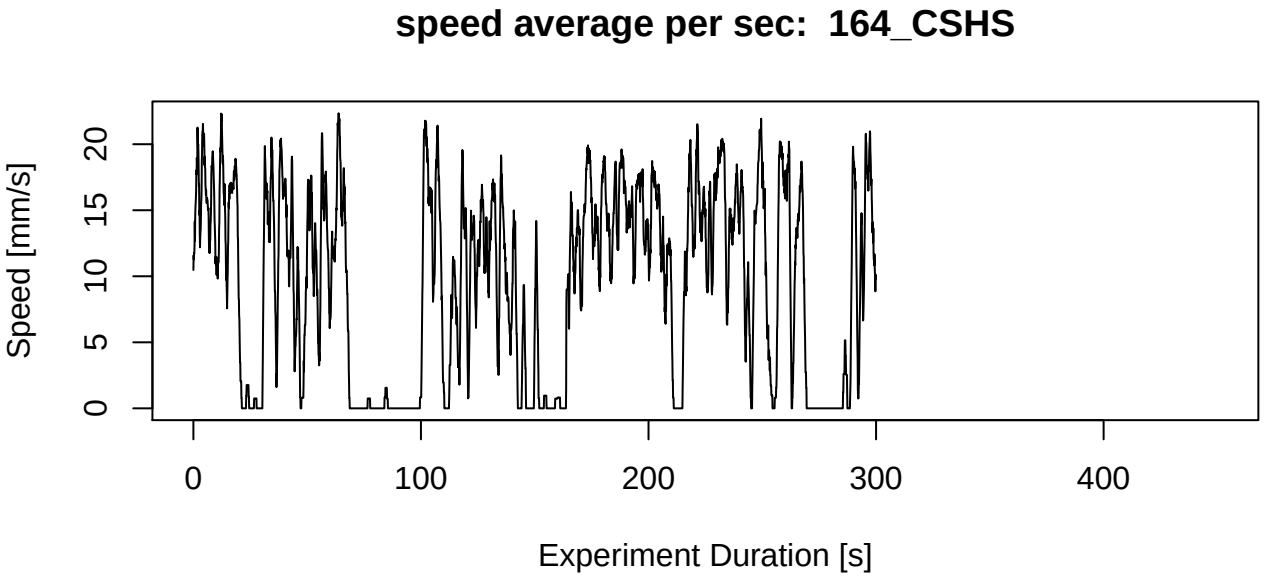

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

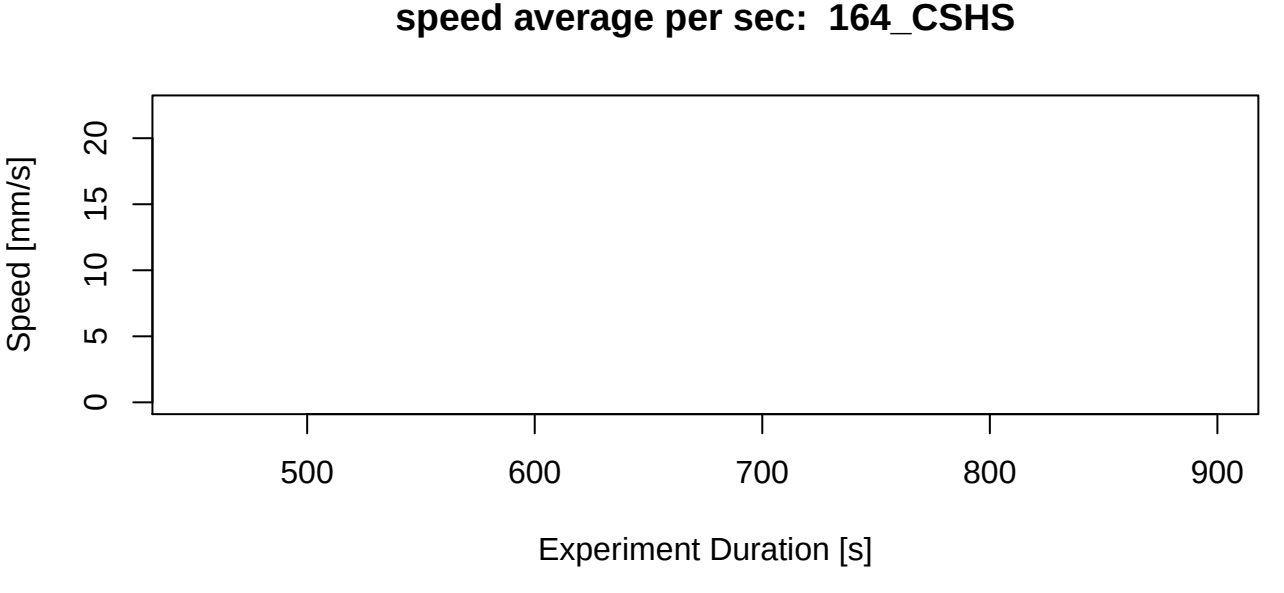

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

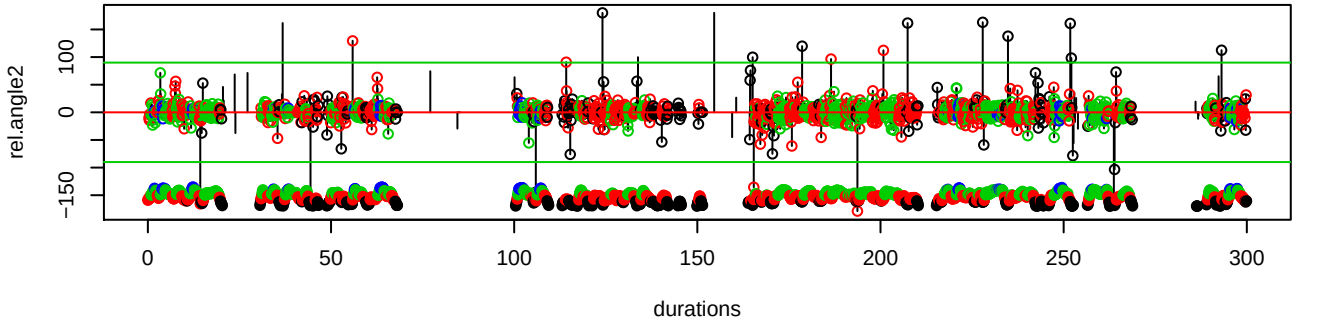

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

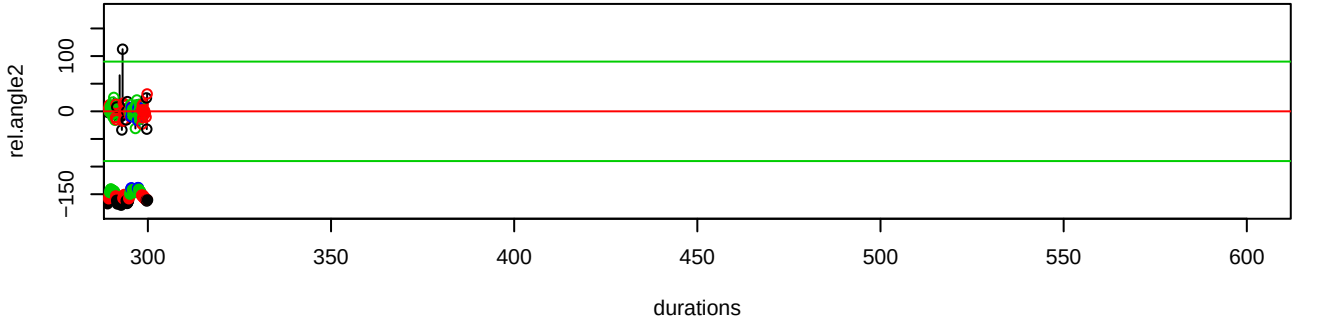

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

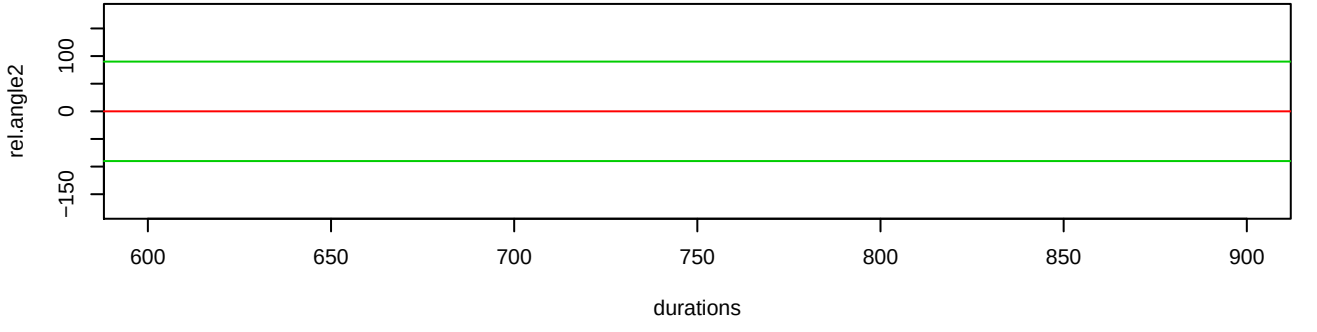

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

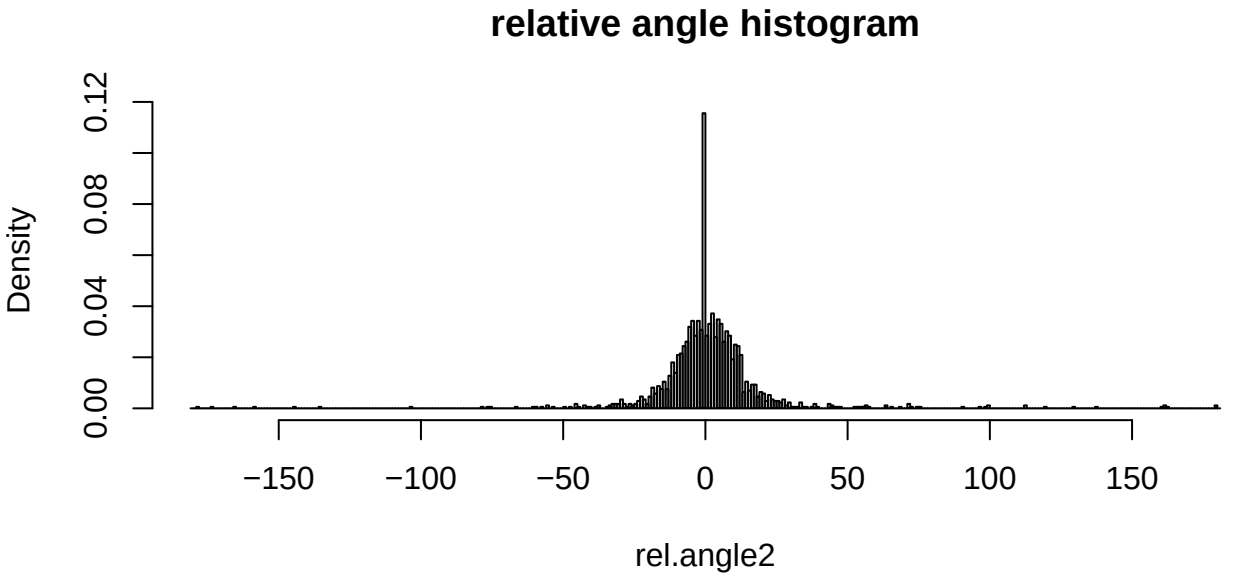

speed average per sec: 164_CSHS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

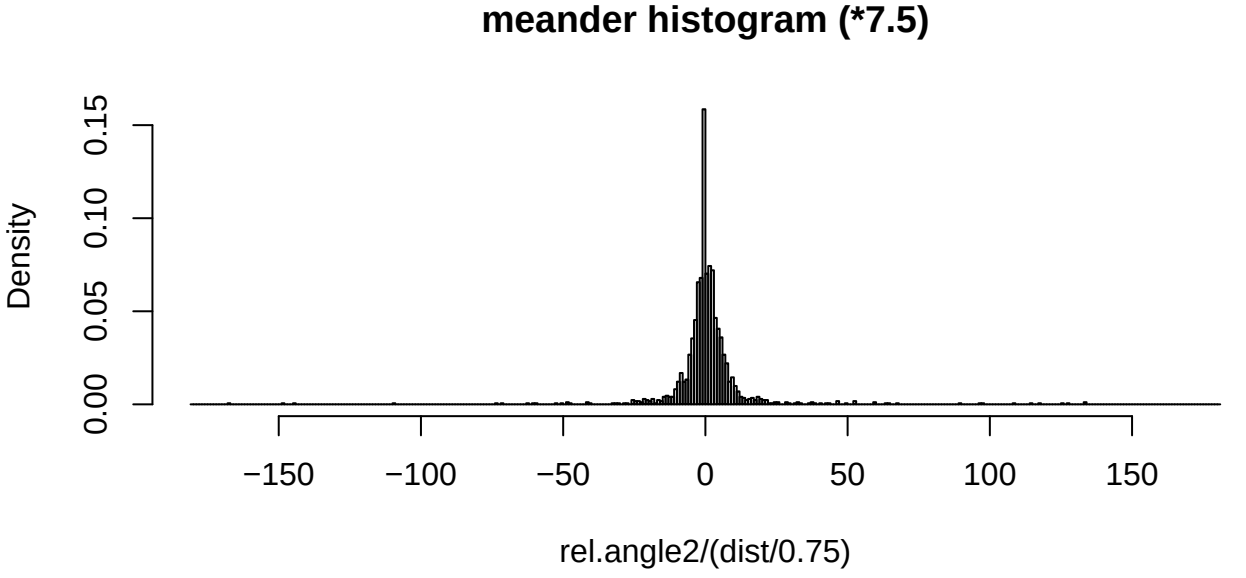

speed average per sec: 164_CSHS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

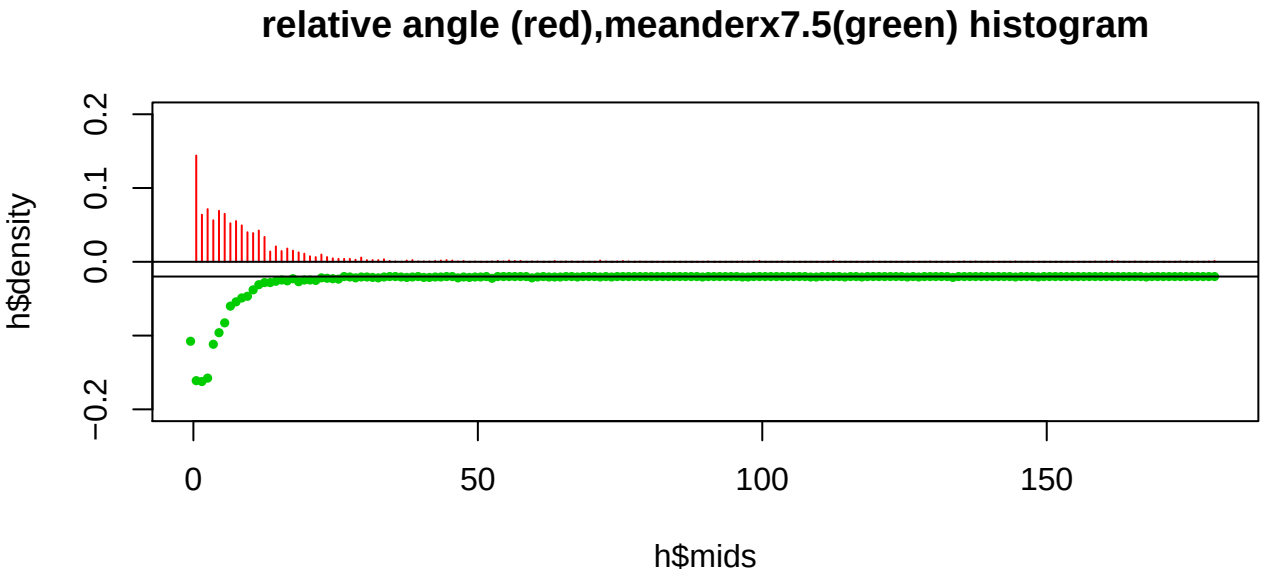

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

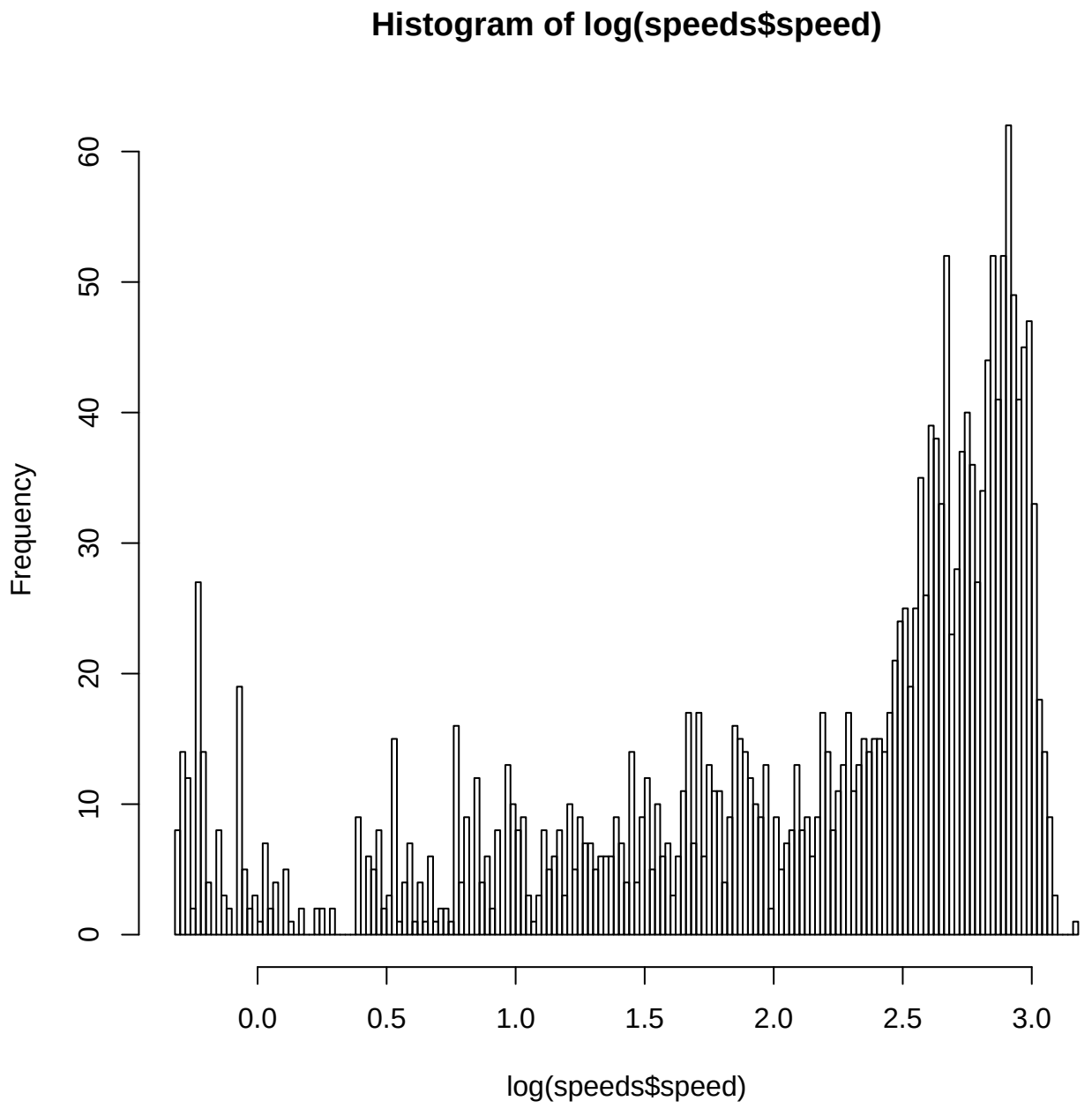

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

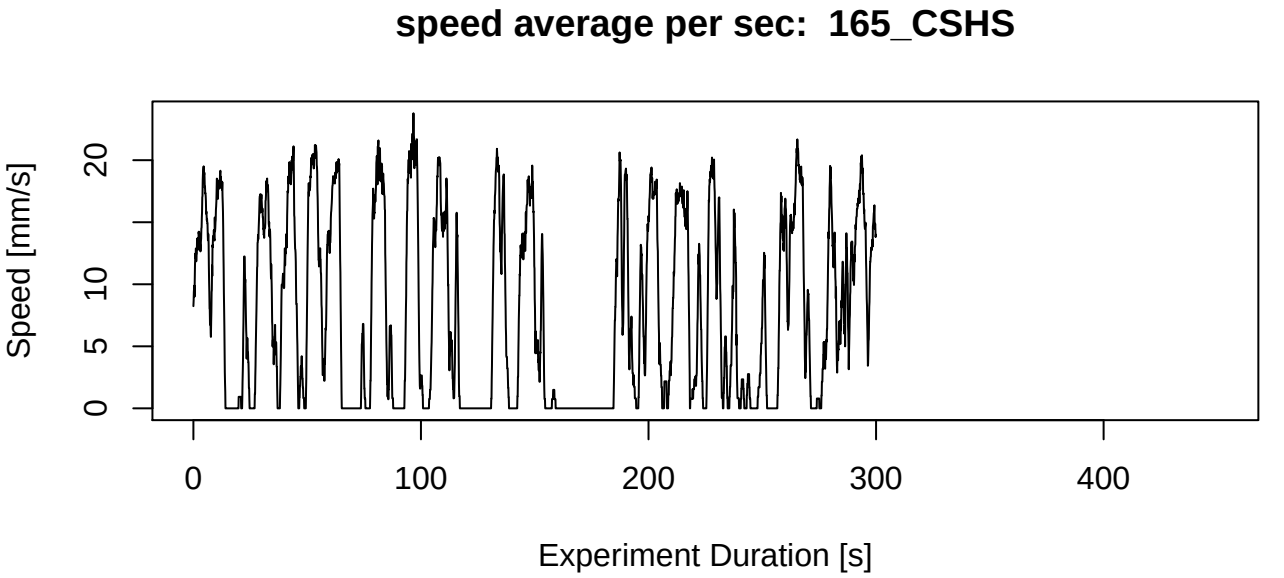

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

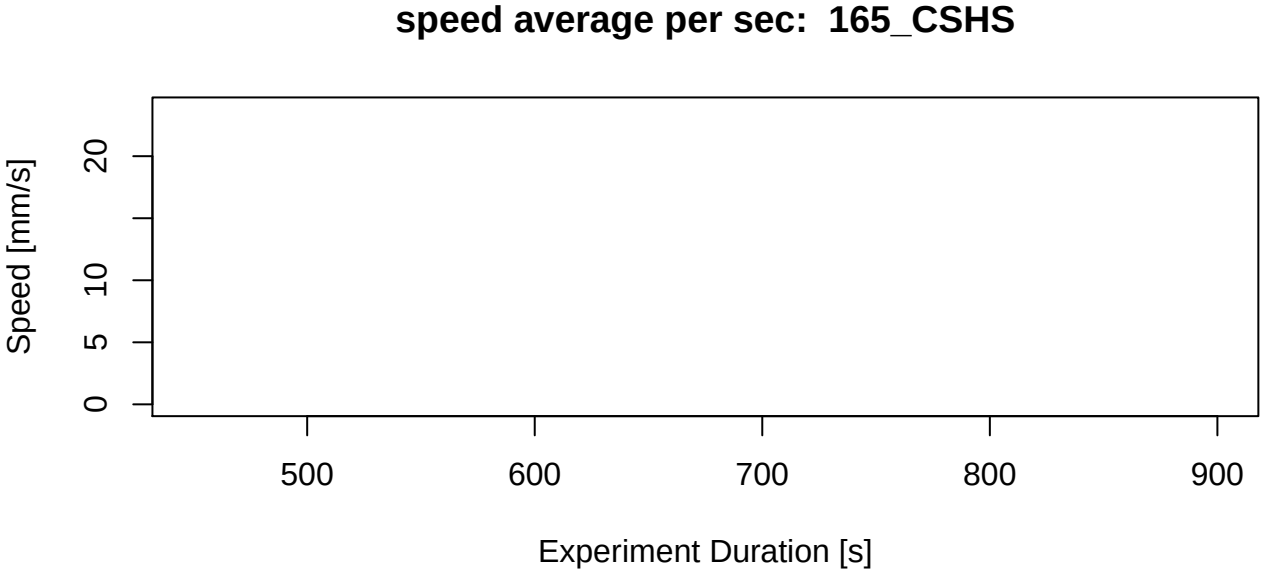

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

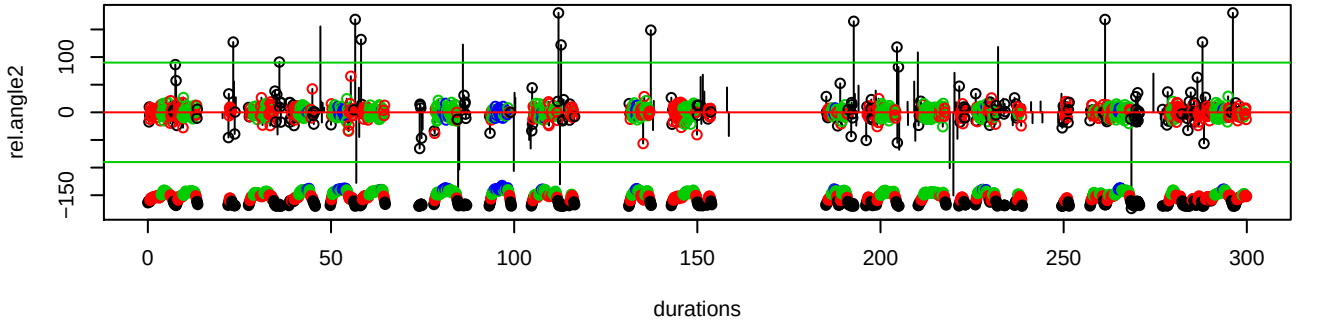

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

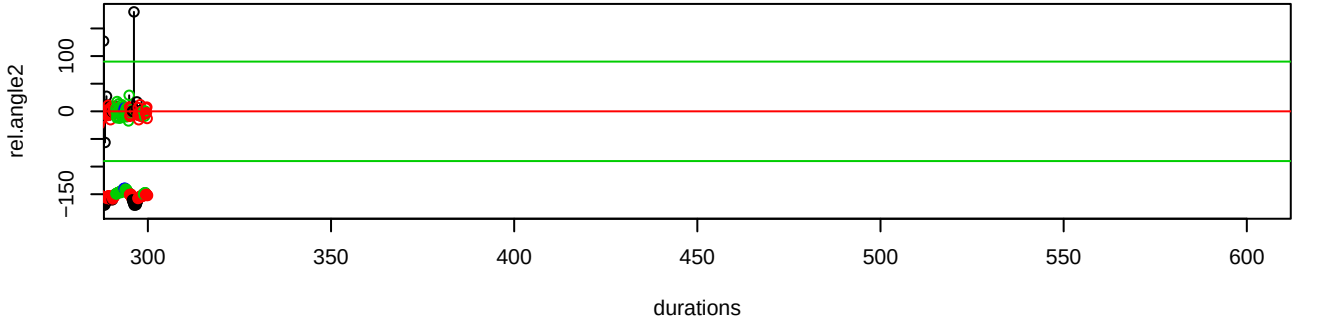

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

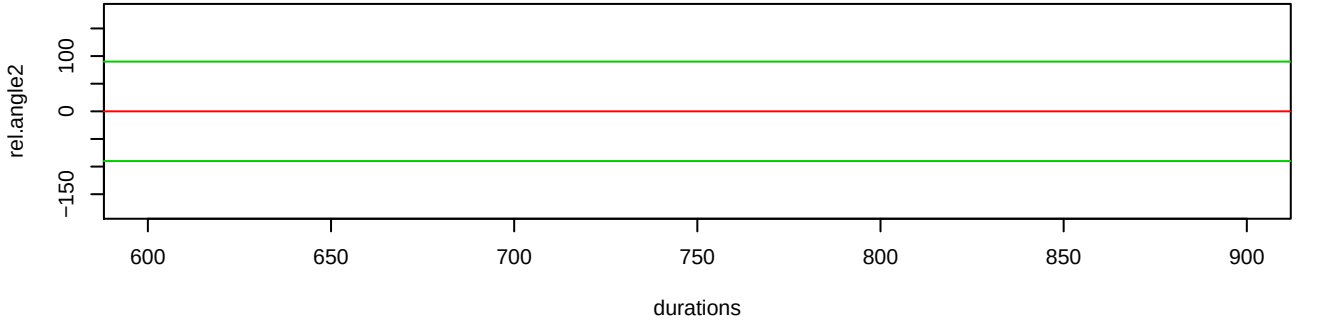

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

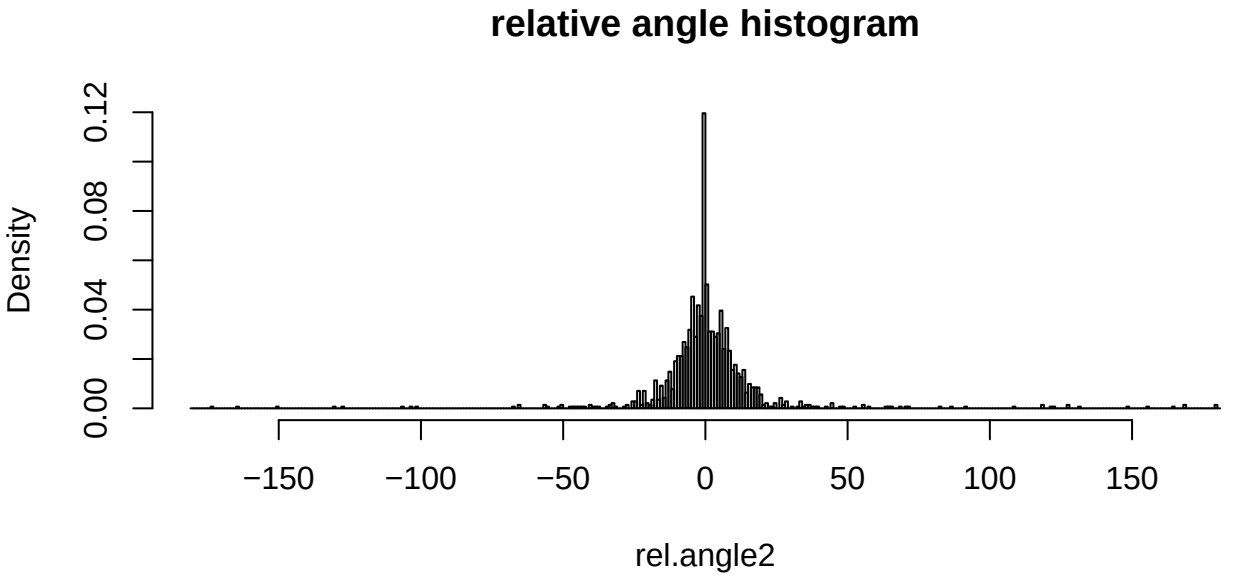

speed average per sec: 165_CSHS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

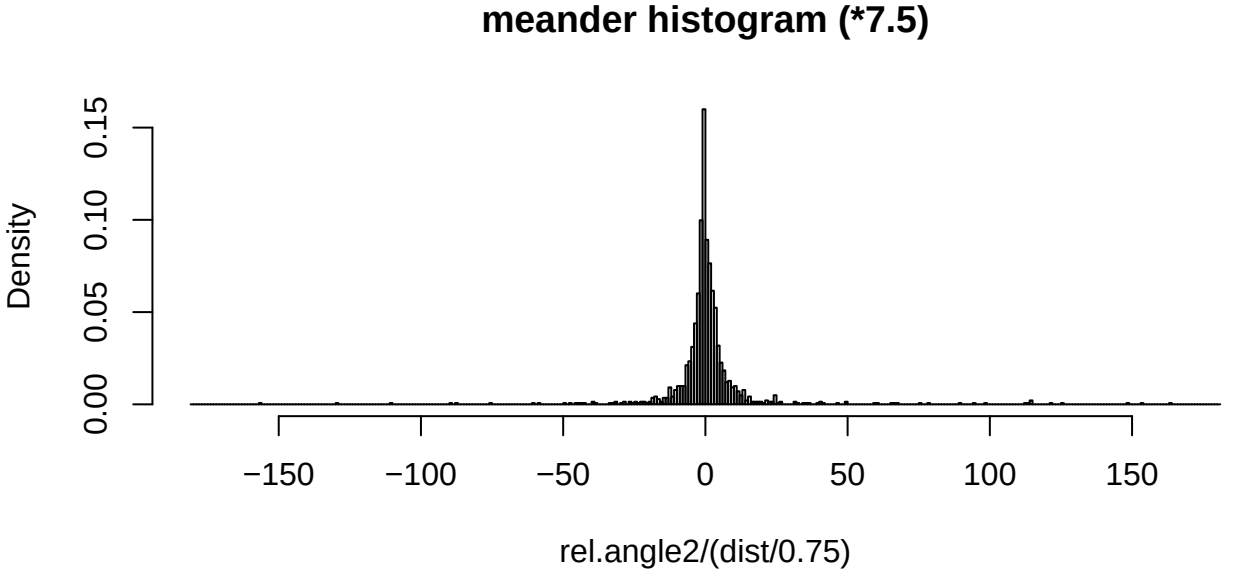

speed average per sec: 165_CSHS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

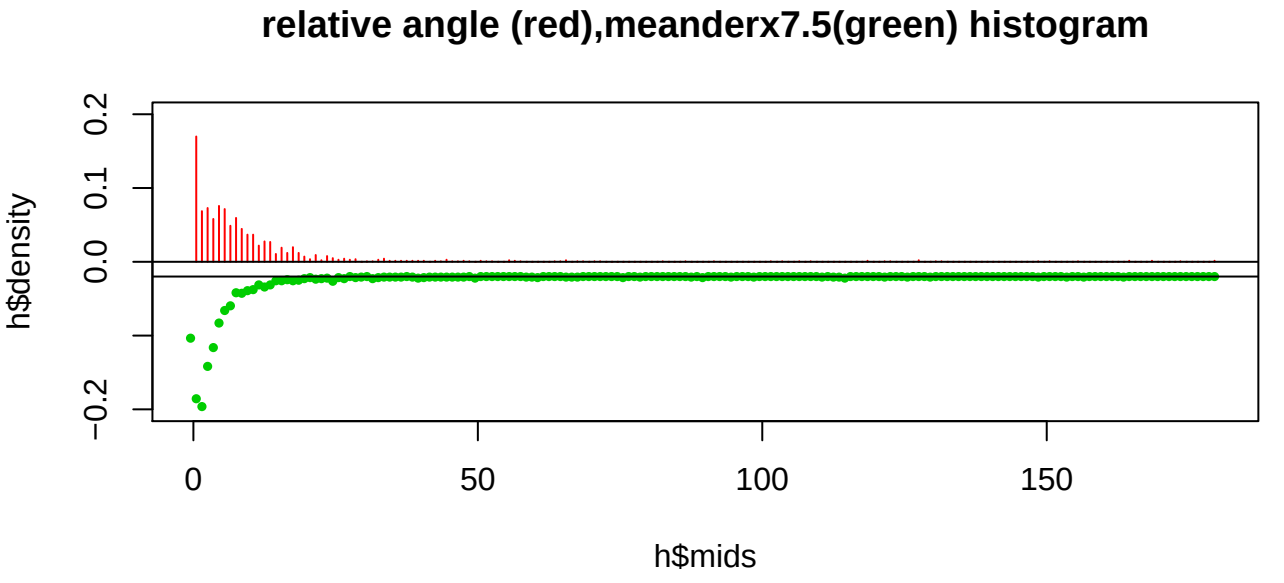

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

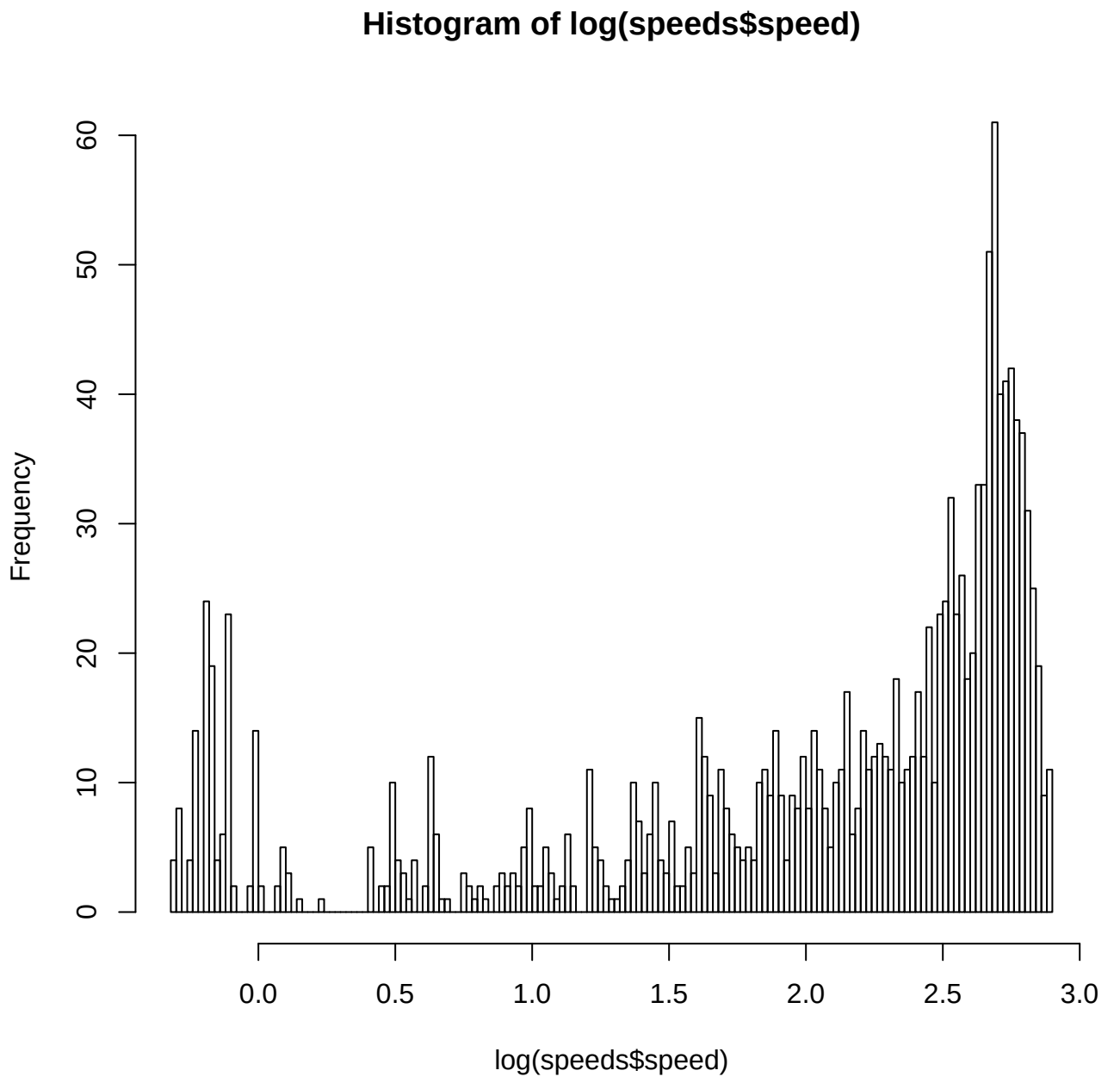

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

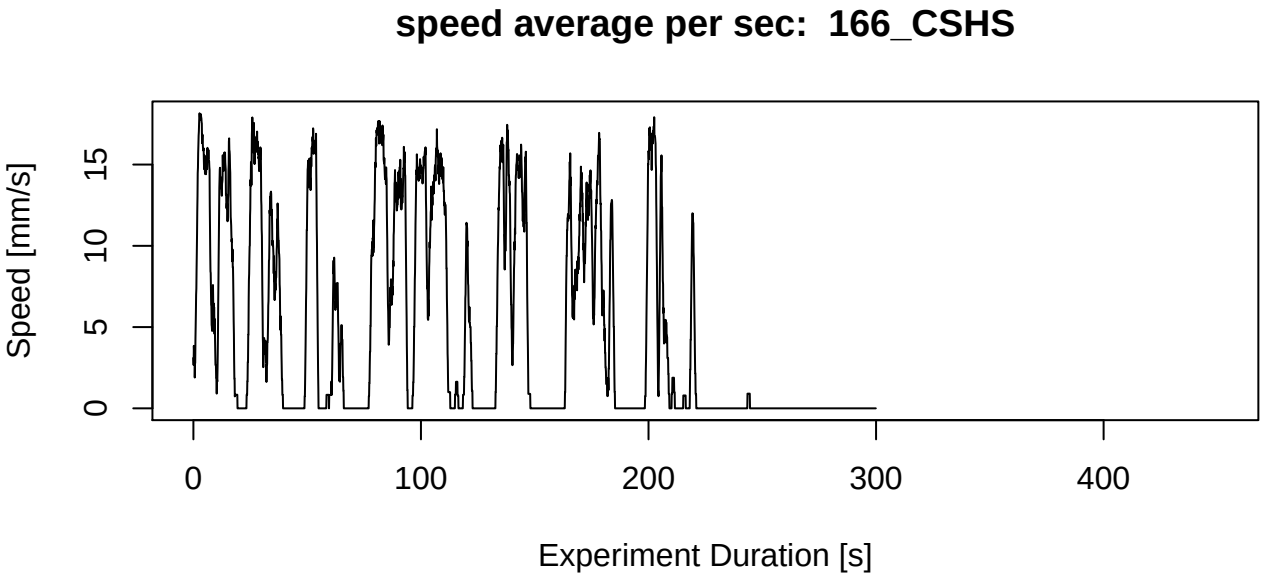

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

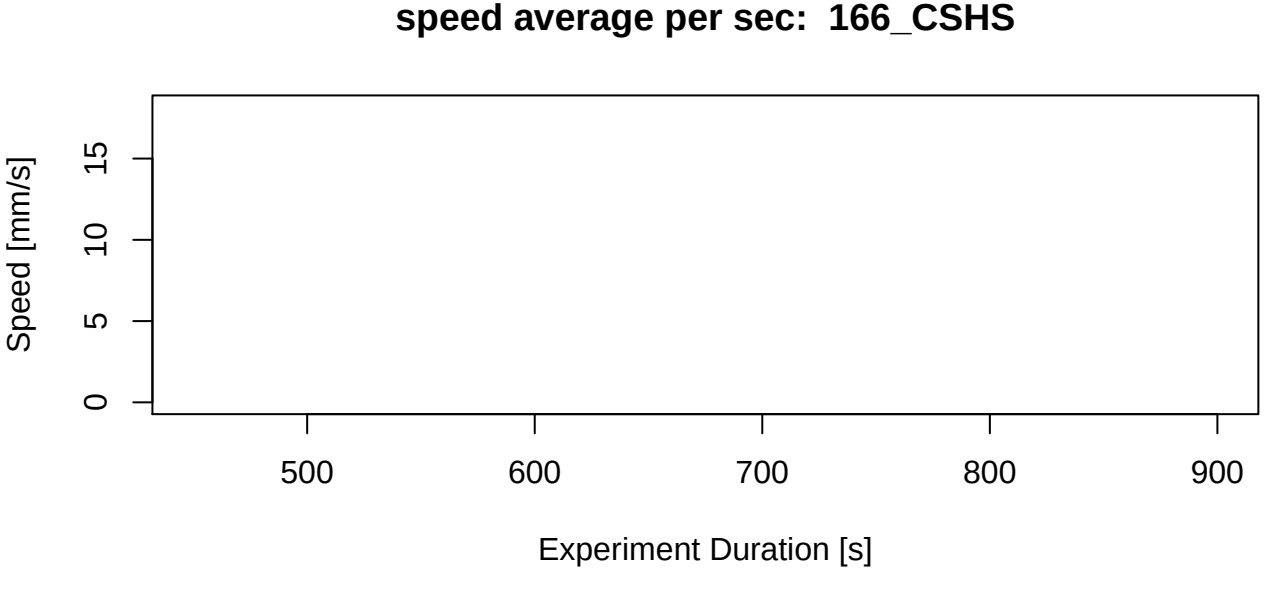

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

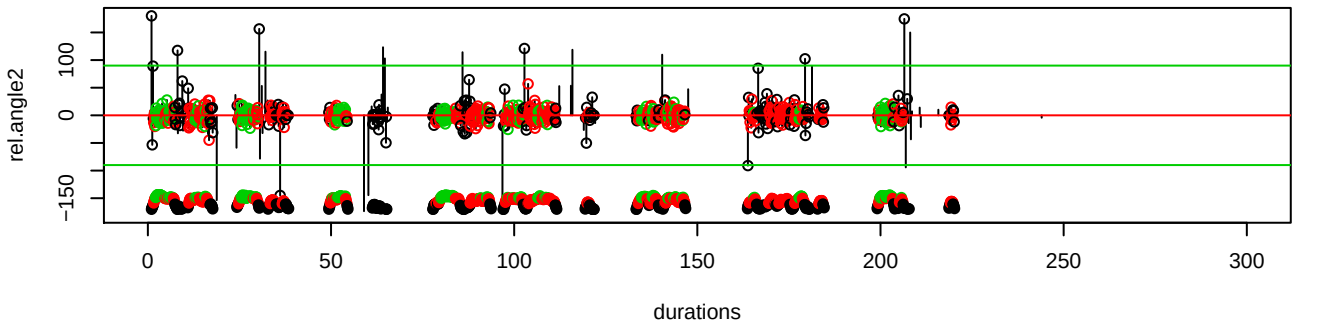

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

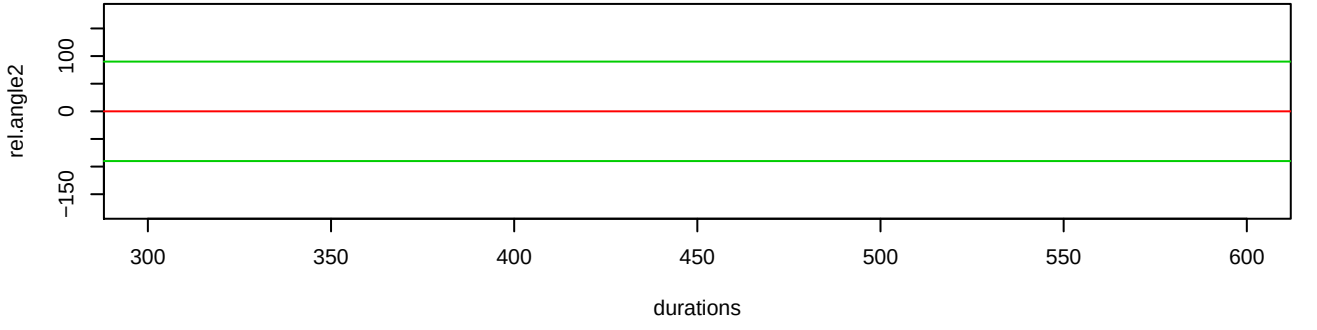

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

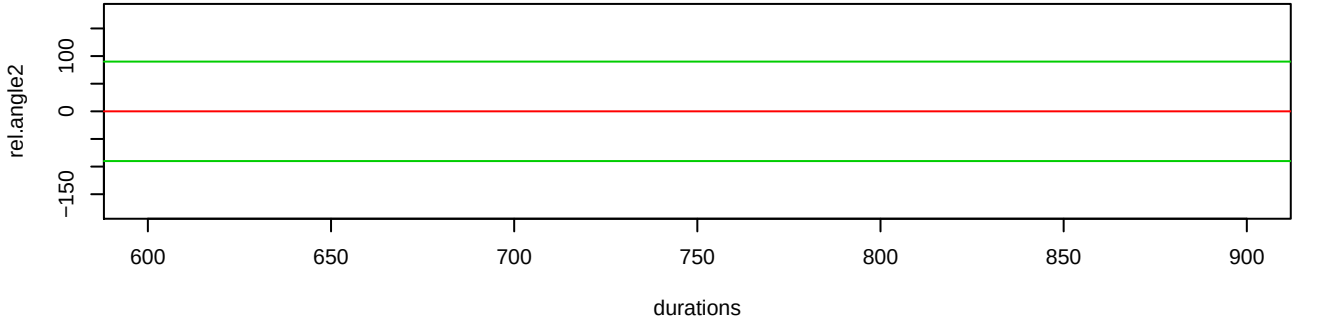

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

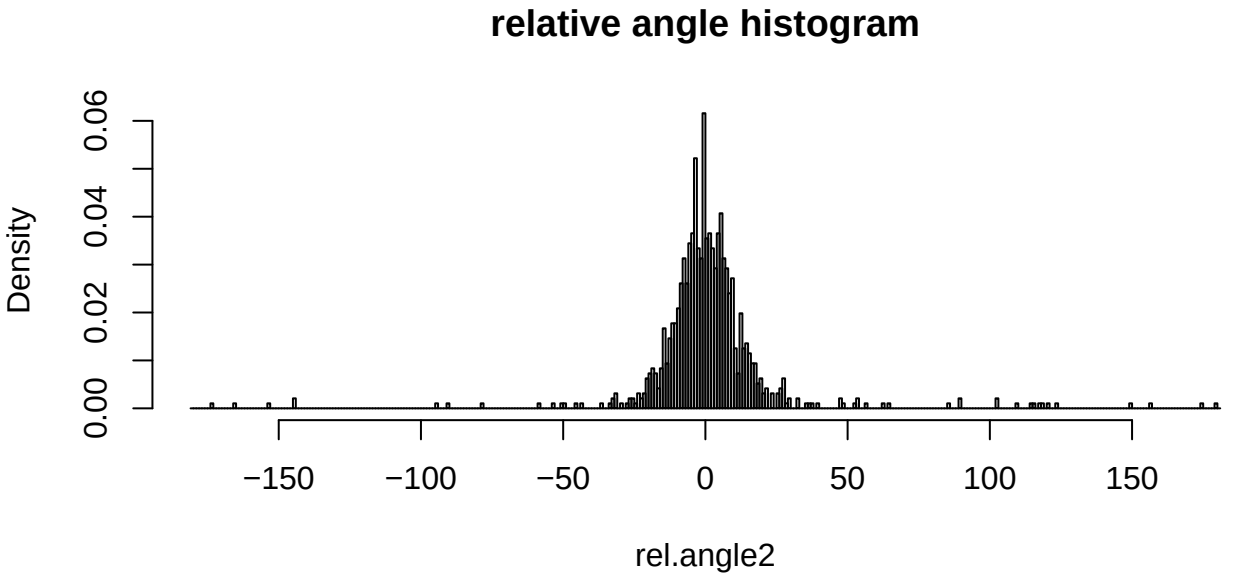

speed average per sec: 166_CSHS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

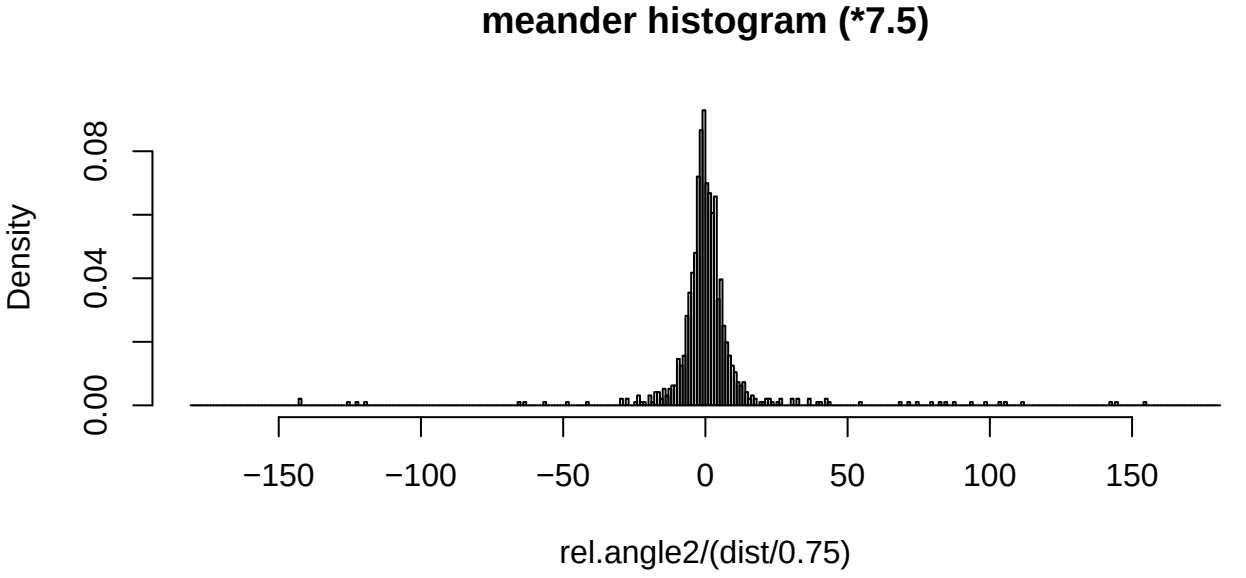

speed average per sec: 166_CSHS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

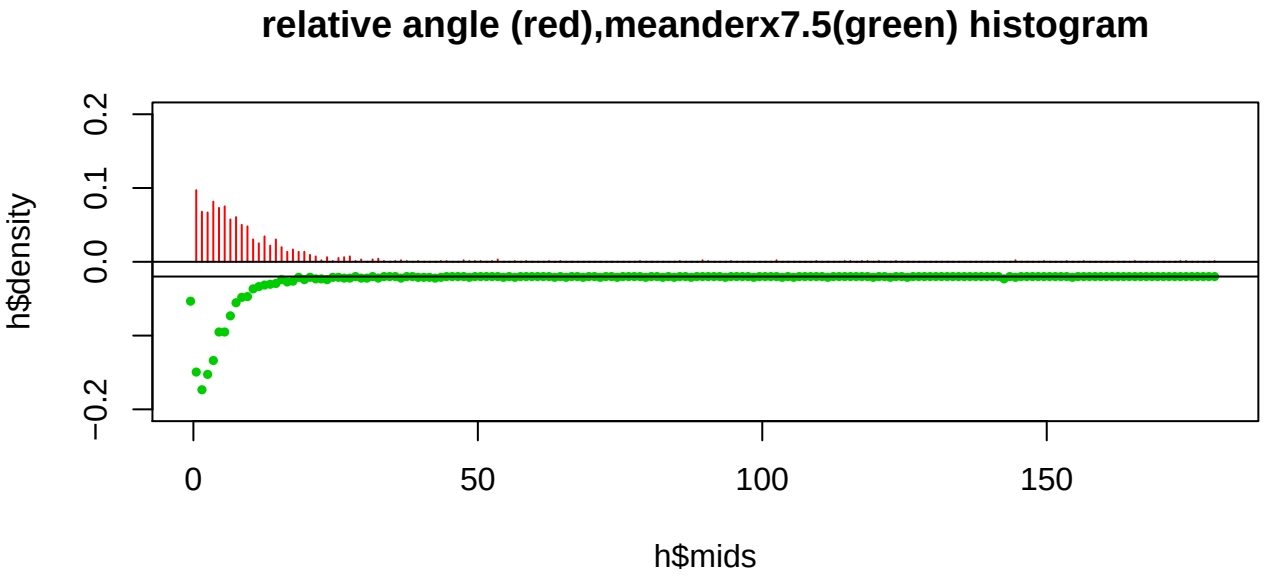

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

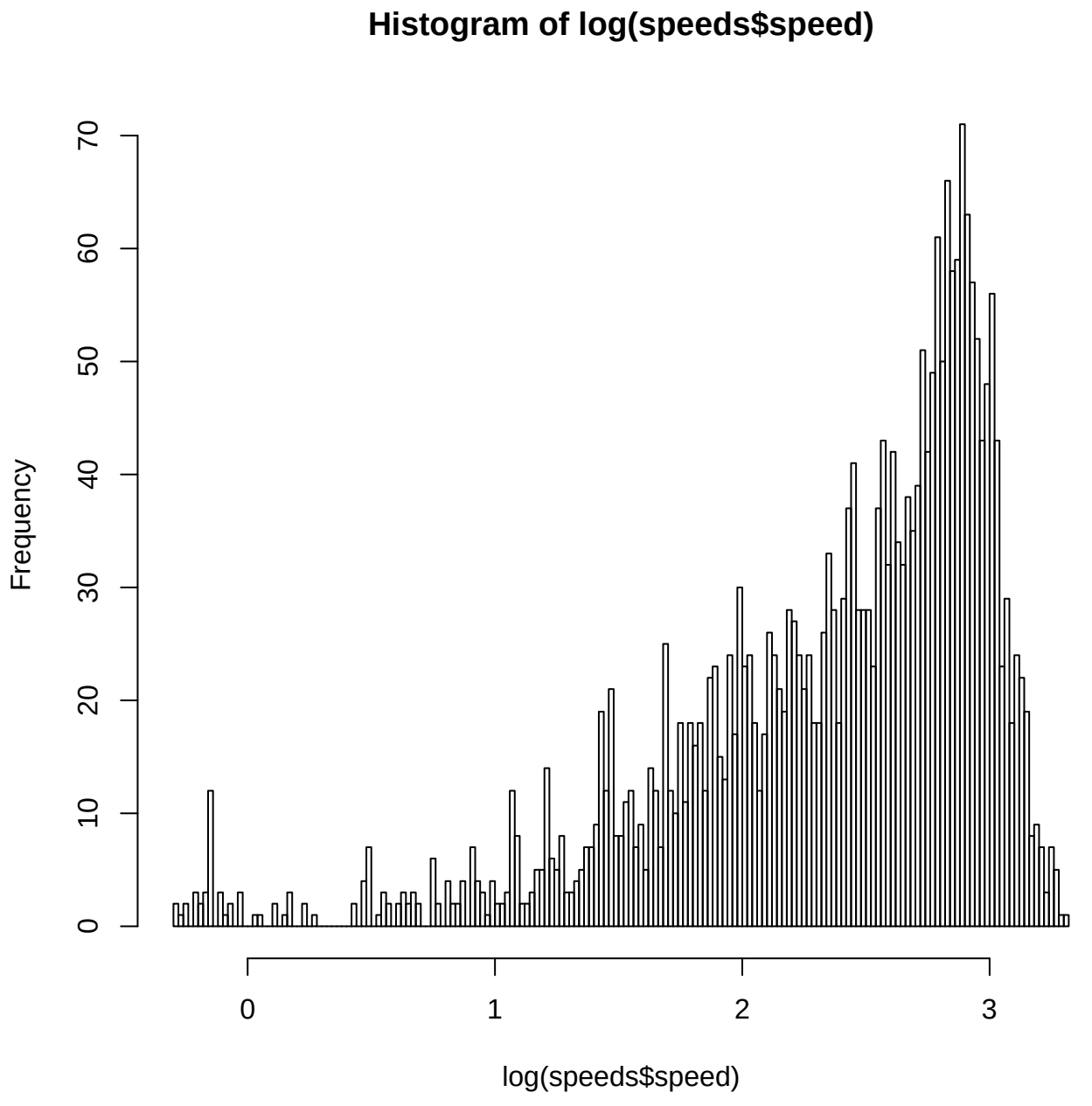

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

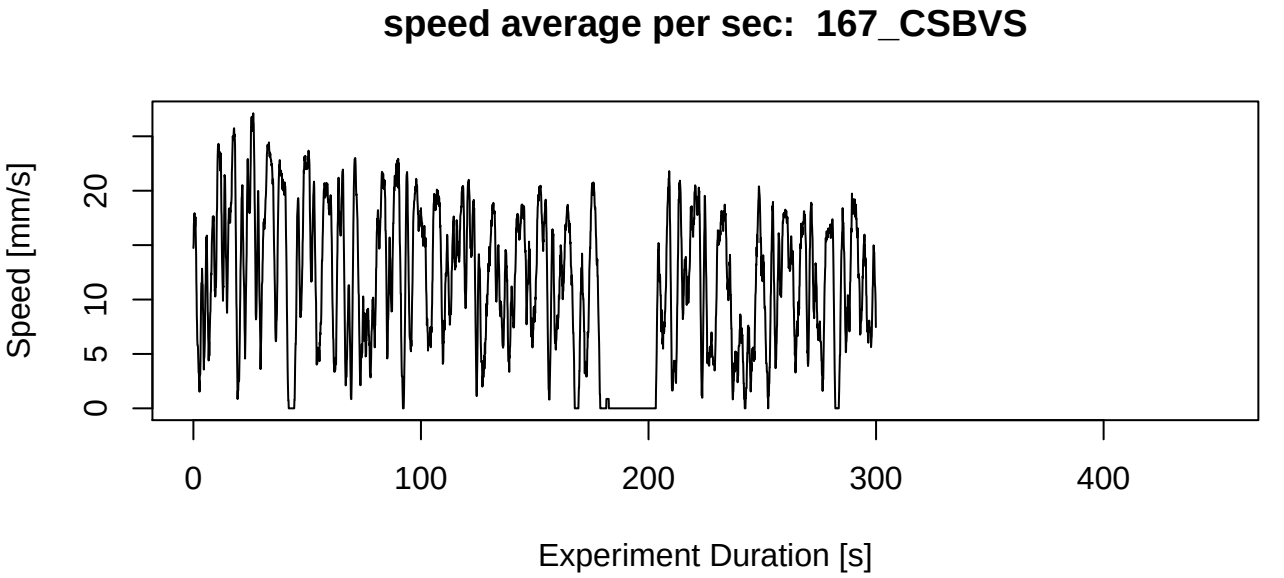

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

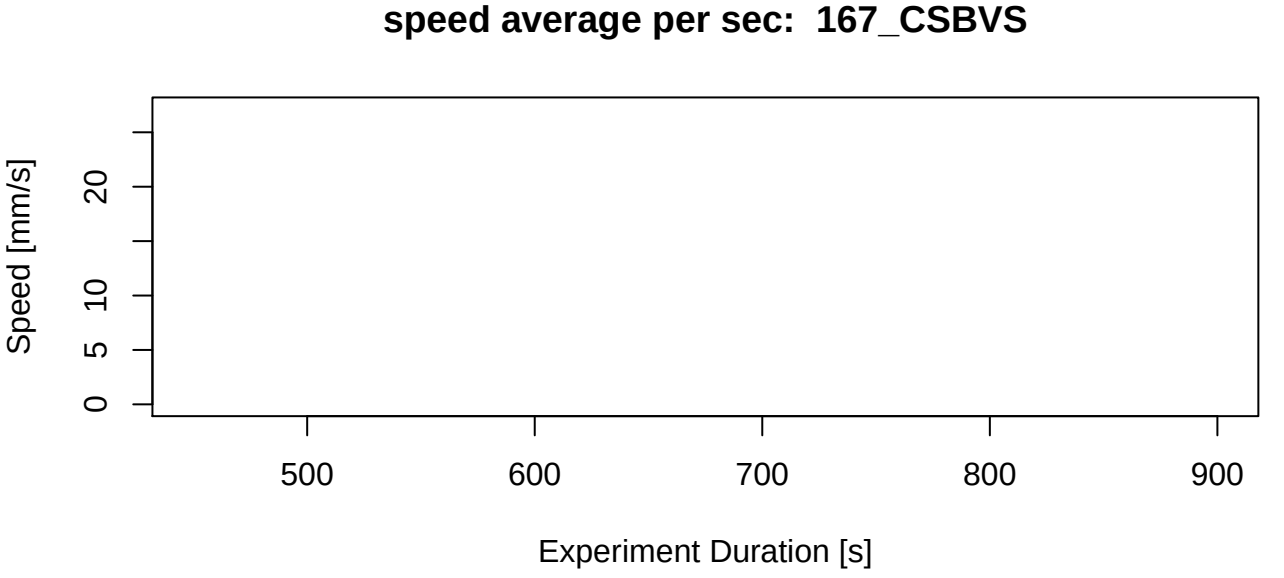

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

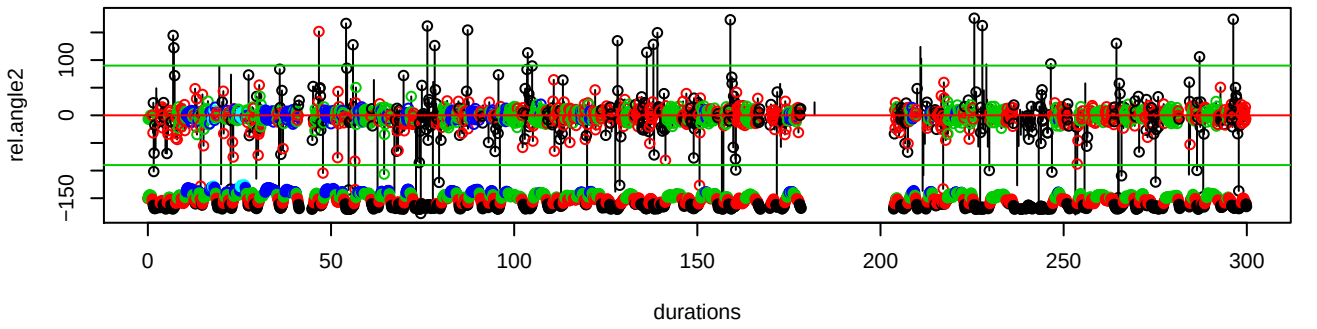

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

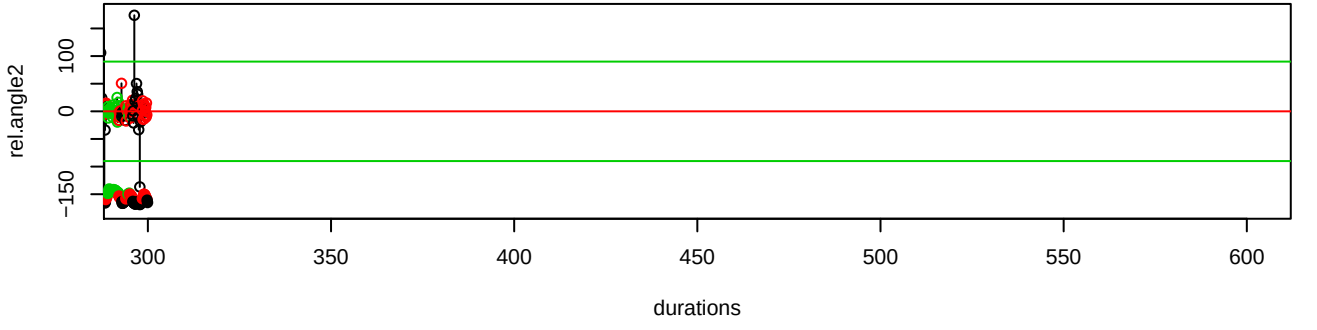

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

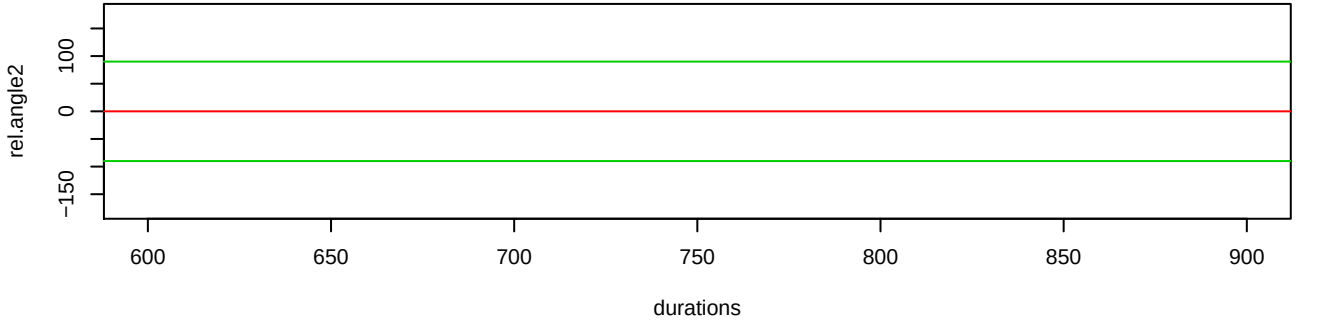

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0
1
2
3
log(speeds$speed)

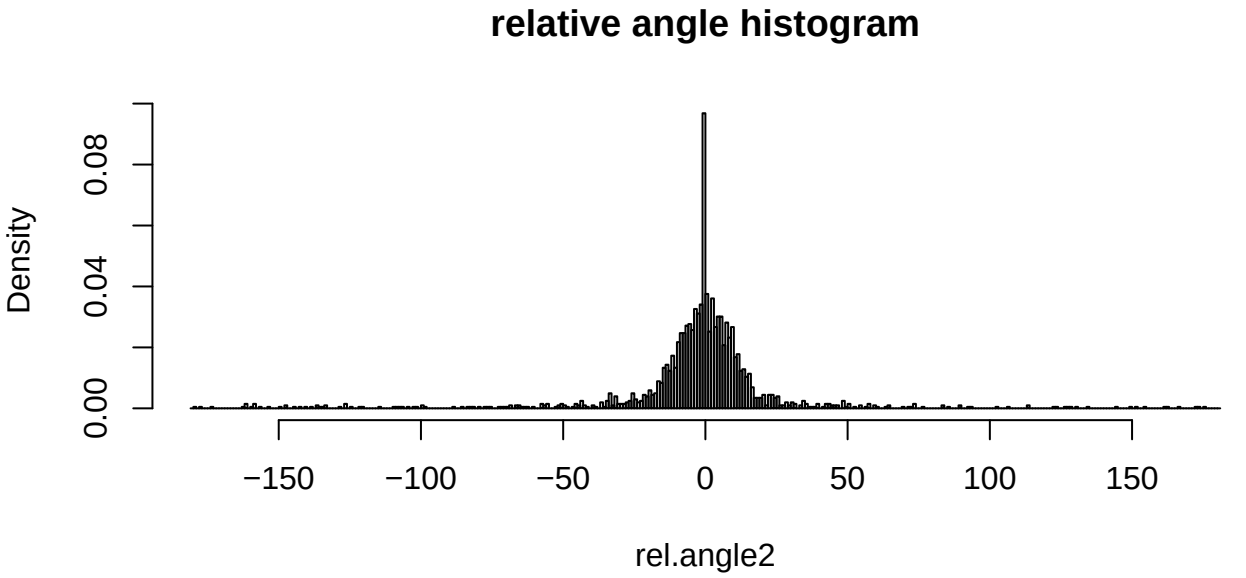

speed average per sec: 167_CSBVS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

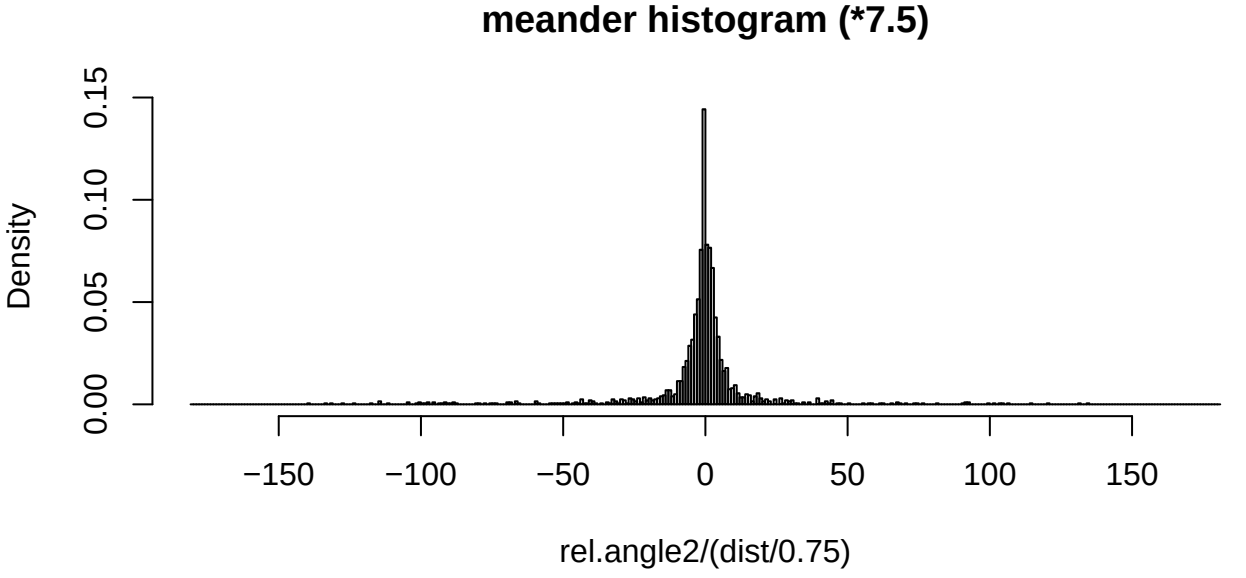

speed average per sec: 167_CSBVS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

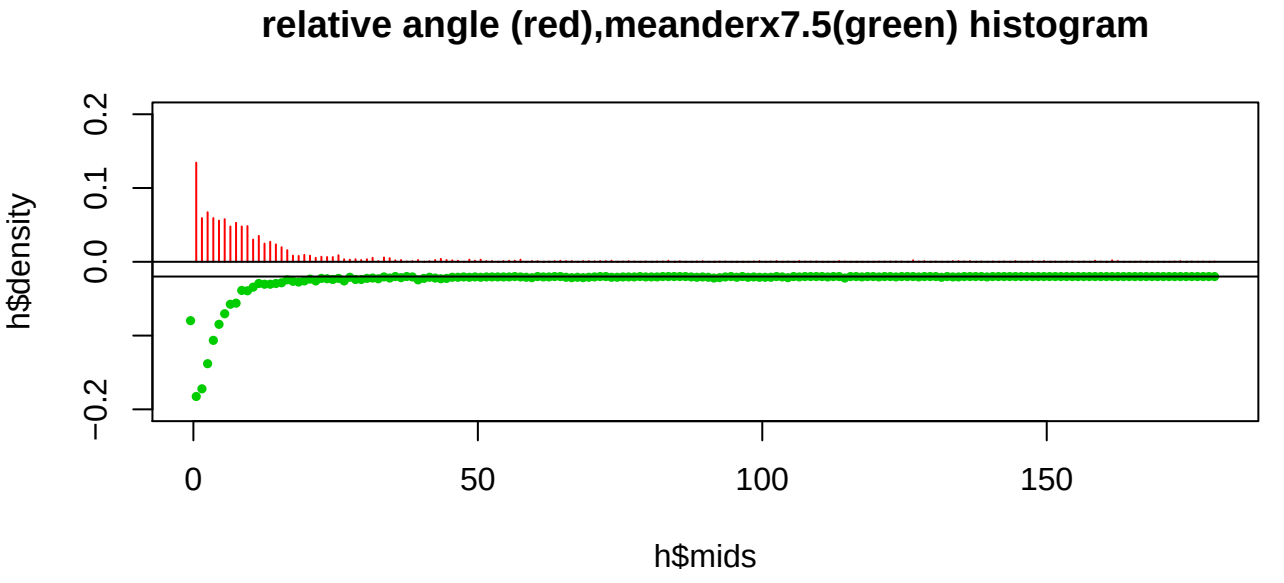

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

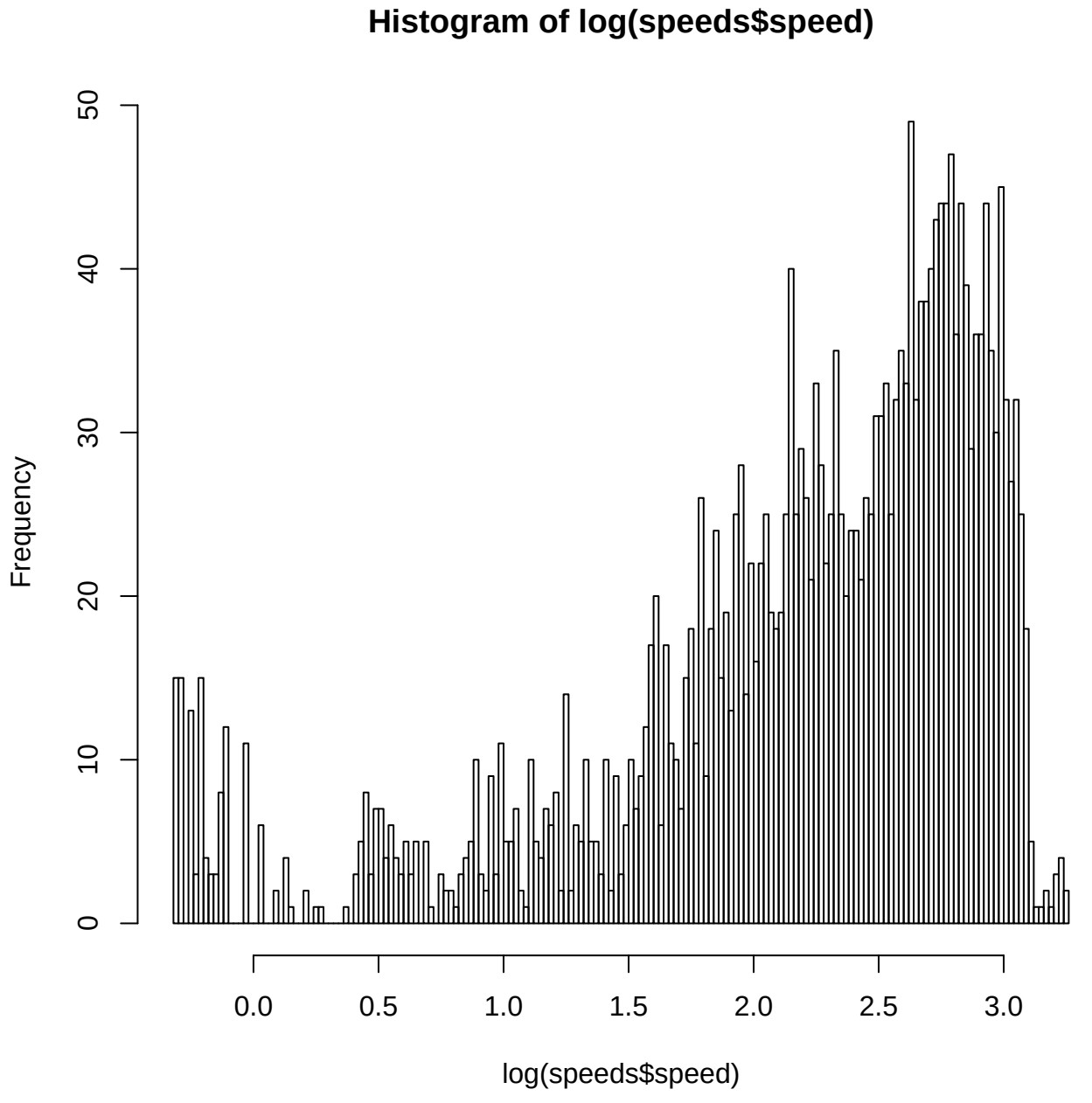

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

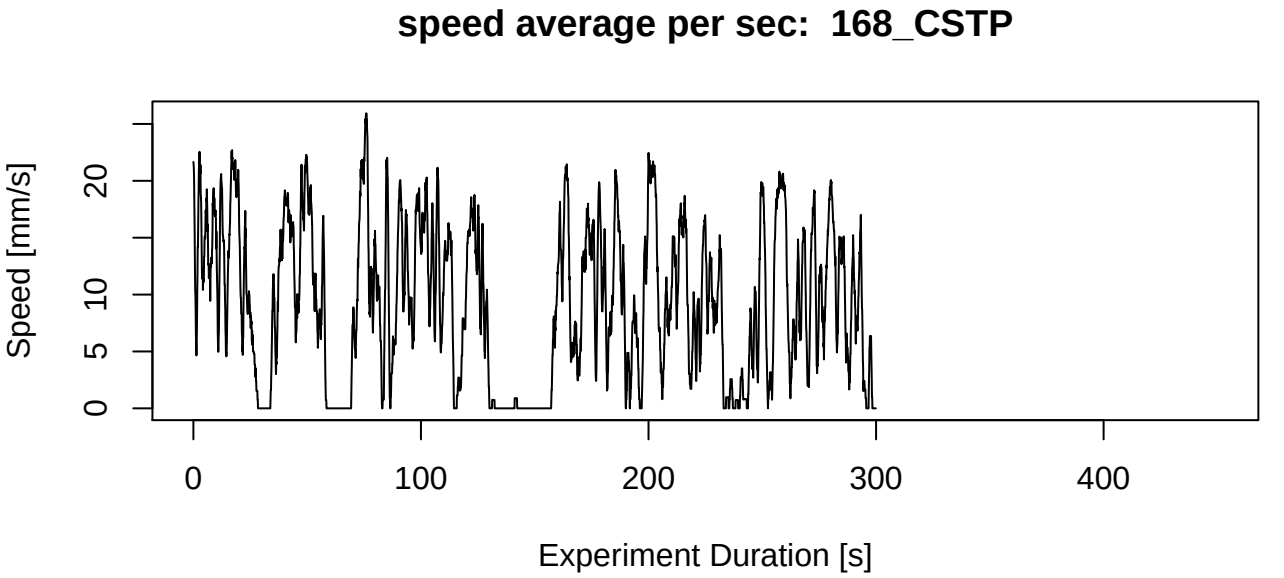

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

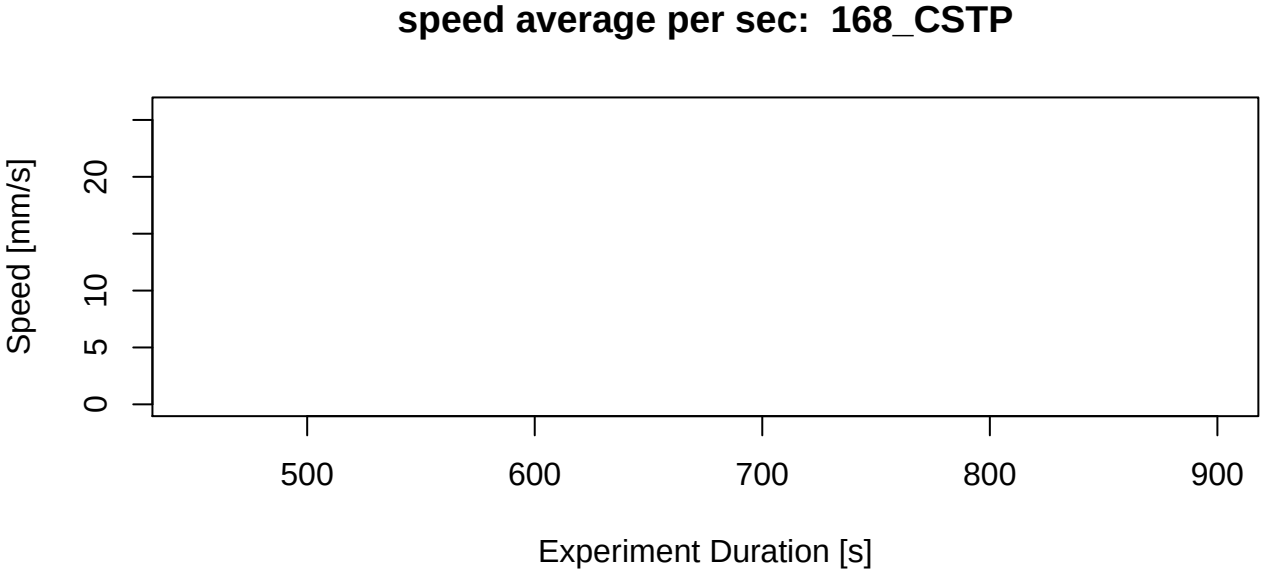

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

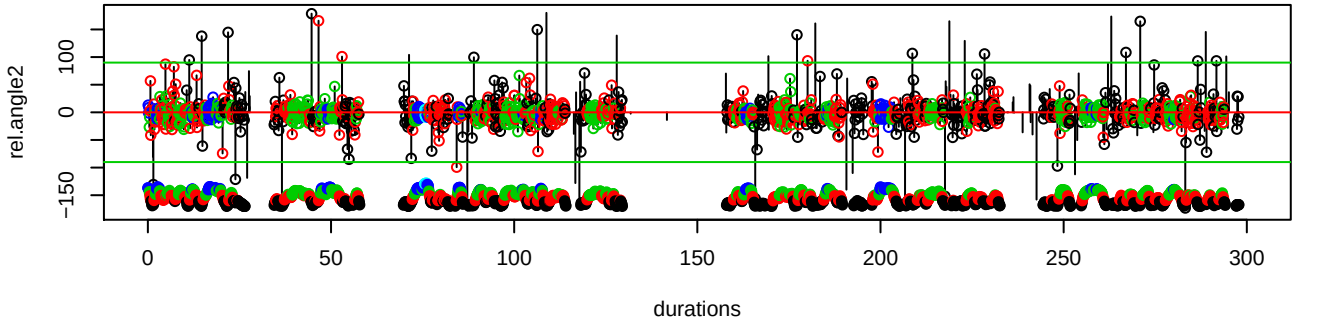

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

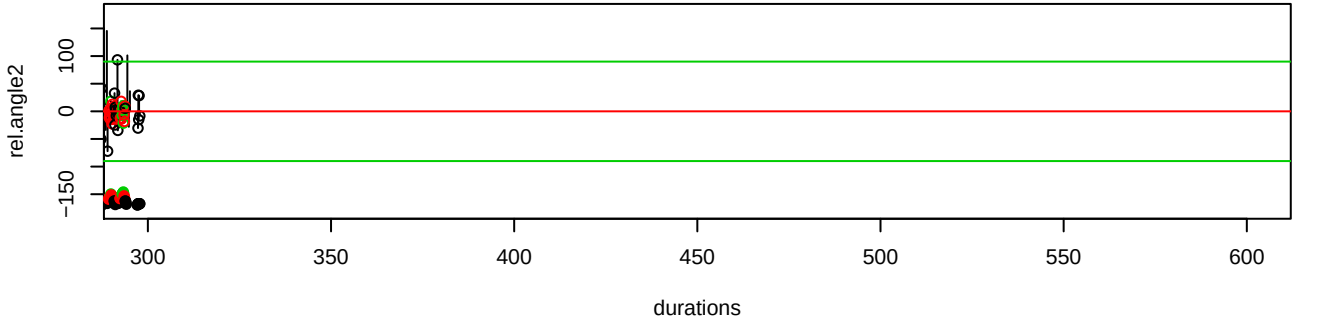

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

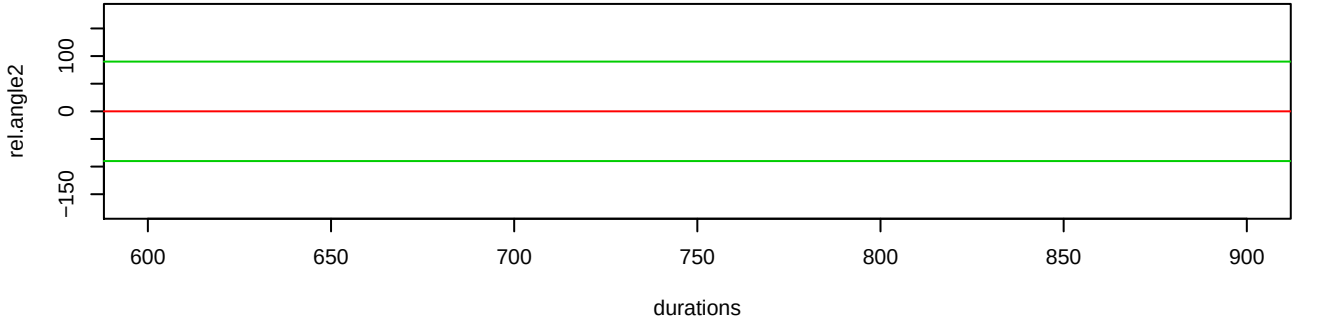

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

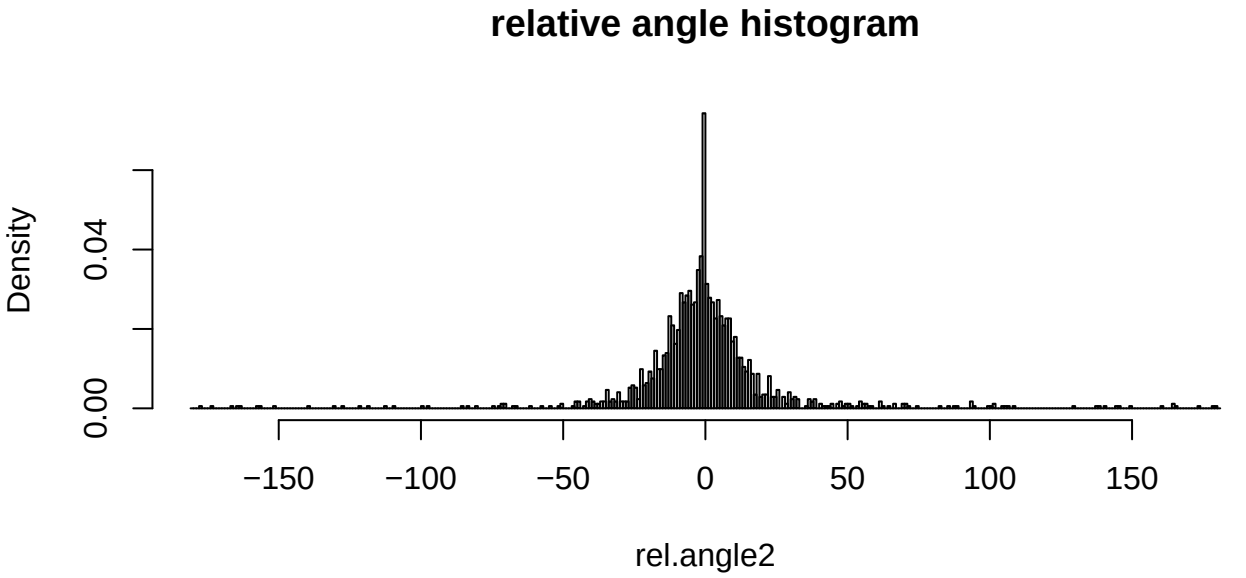

speed average per sec: 168_CSTP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

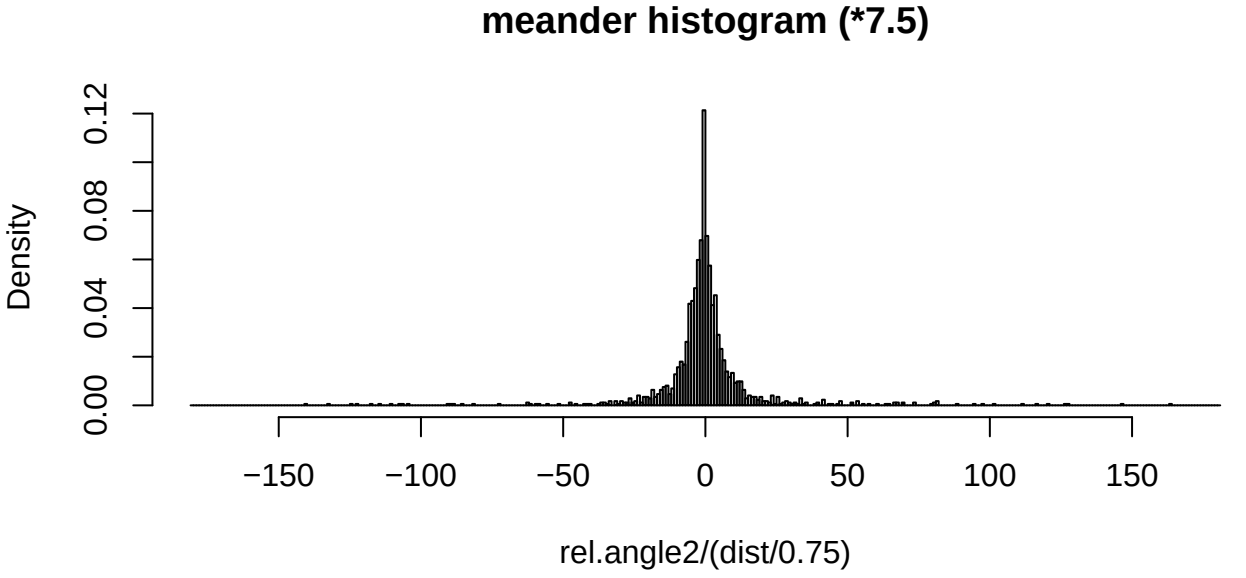

speed average per sec: 168_CSTP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

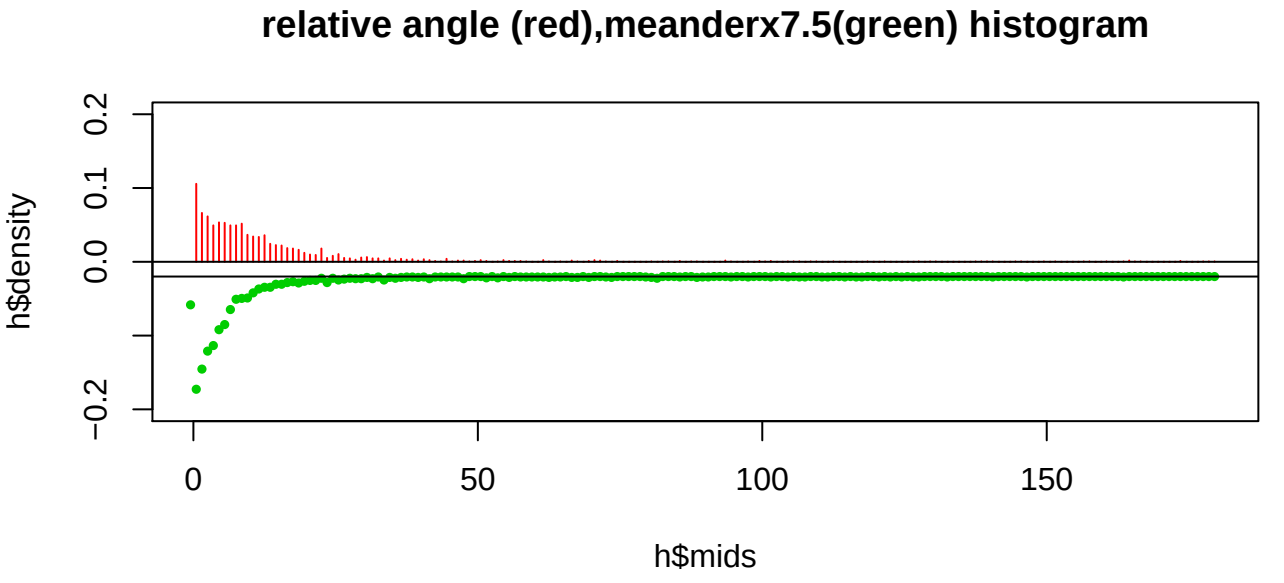

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

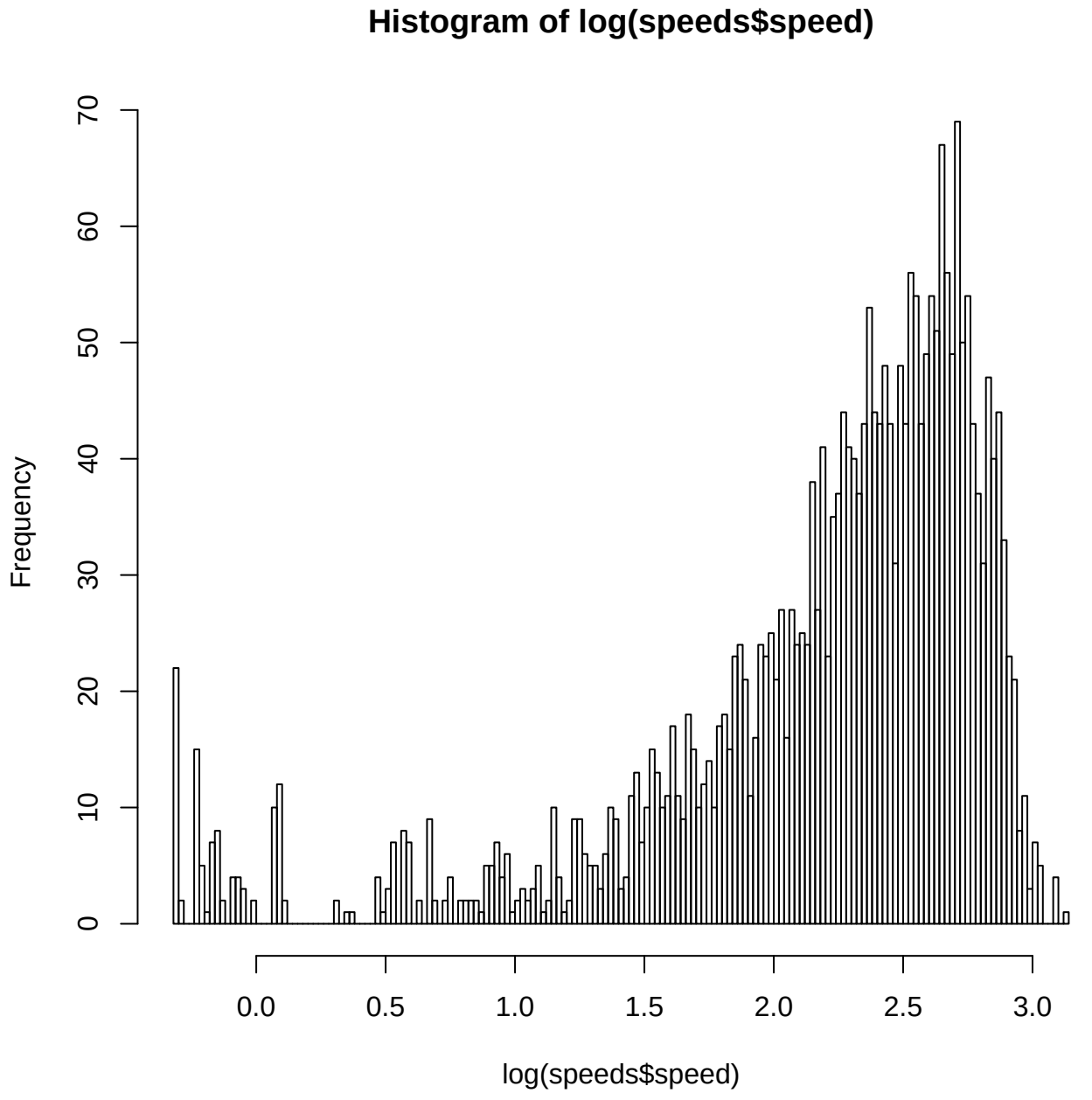

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

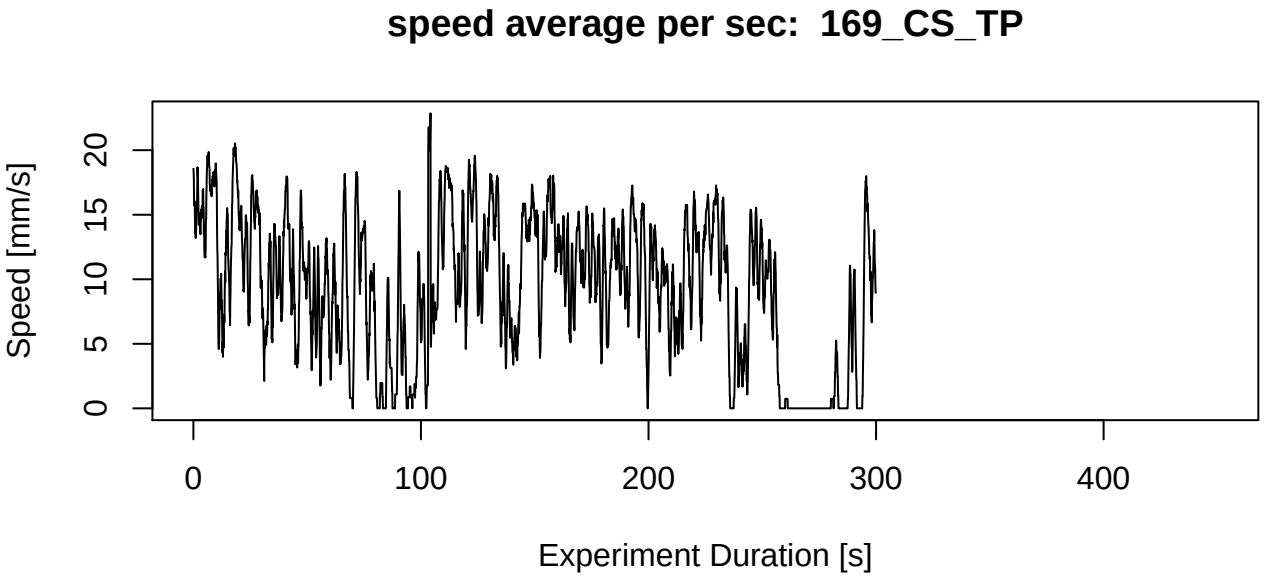

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

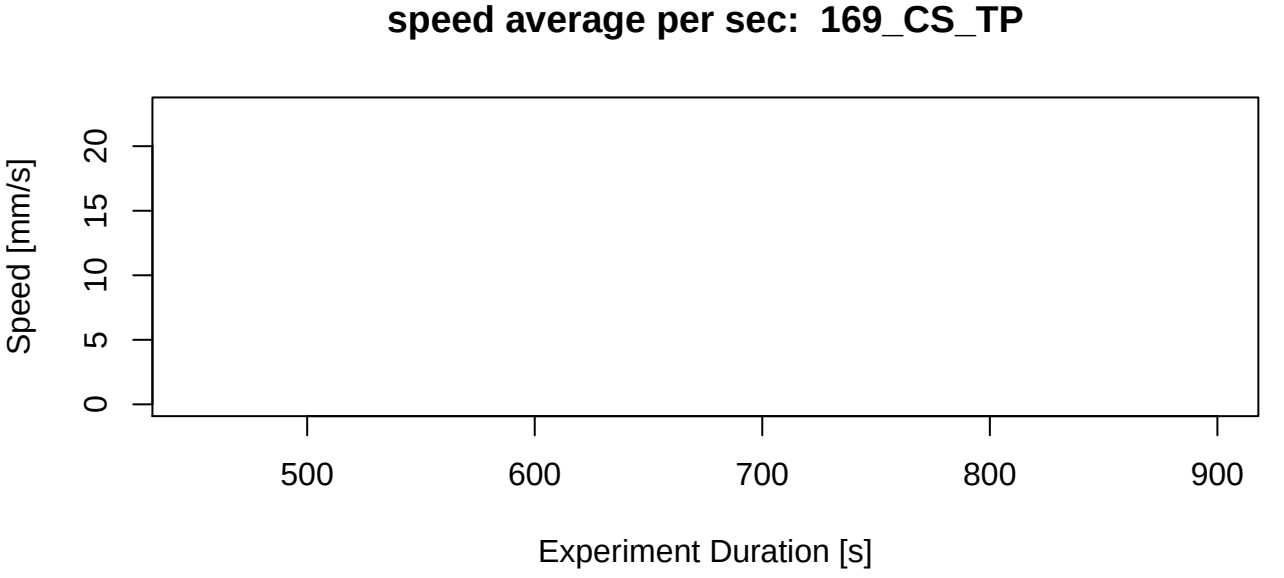

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

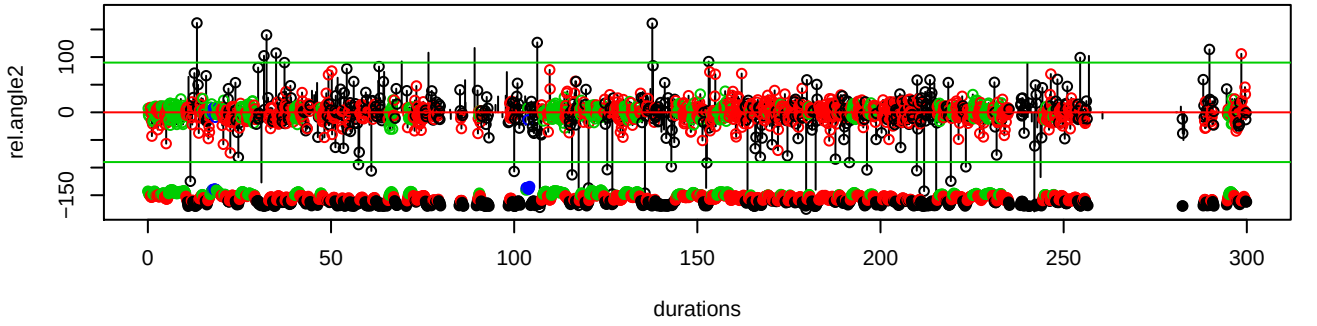

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

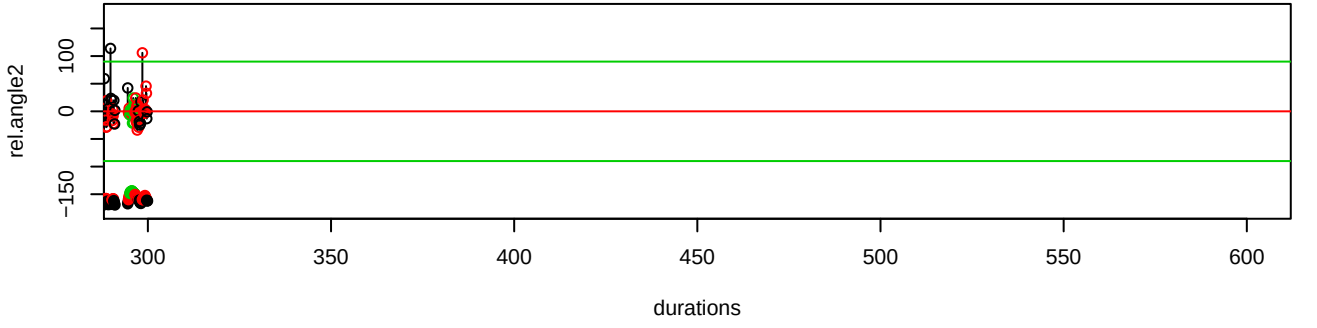

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

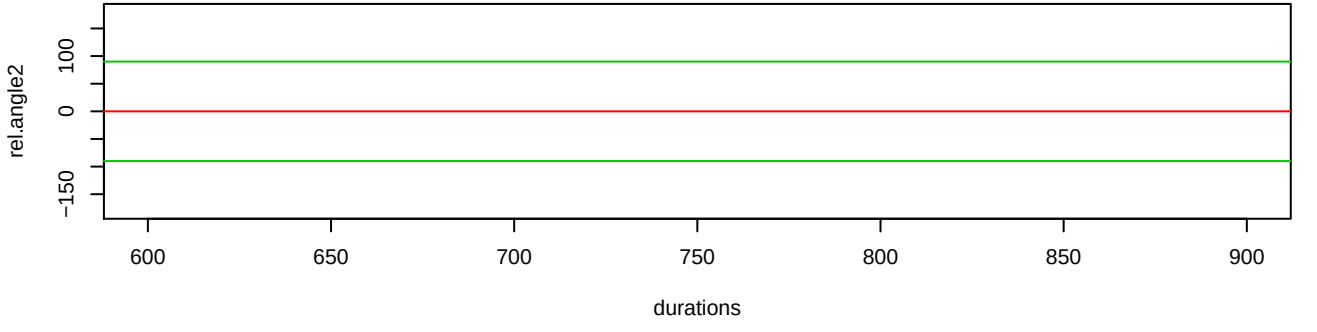

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

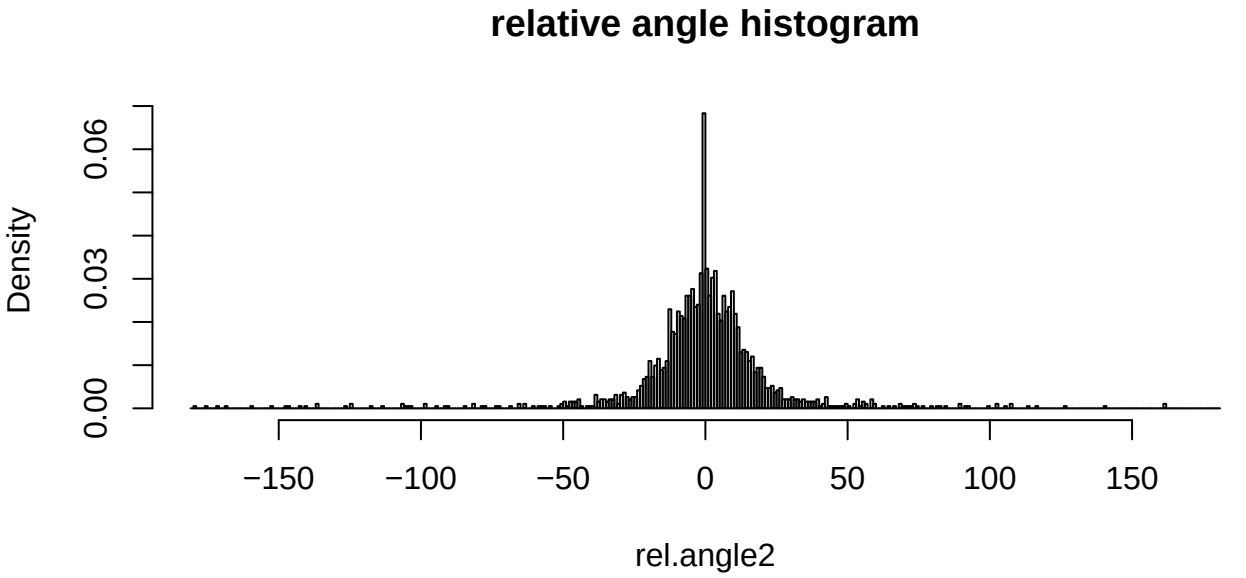

speed average per sec: 169_CS_TP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

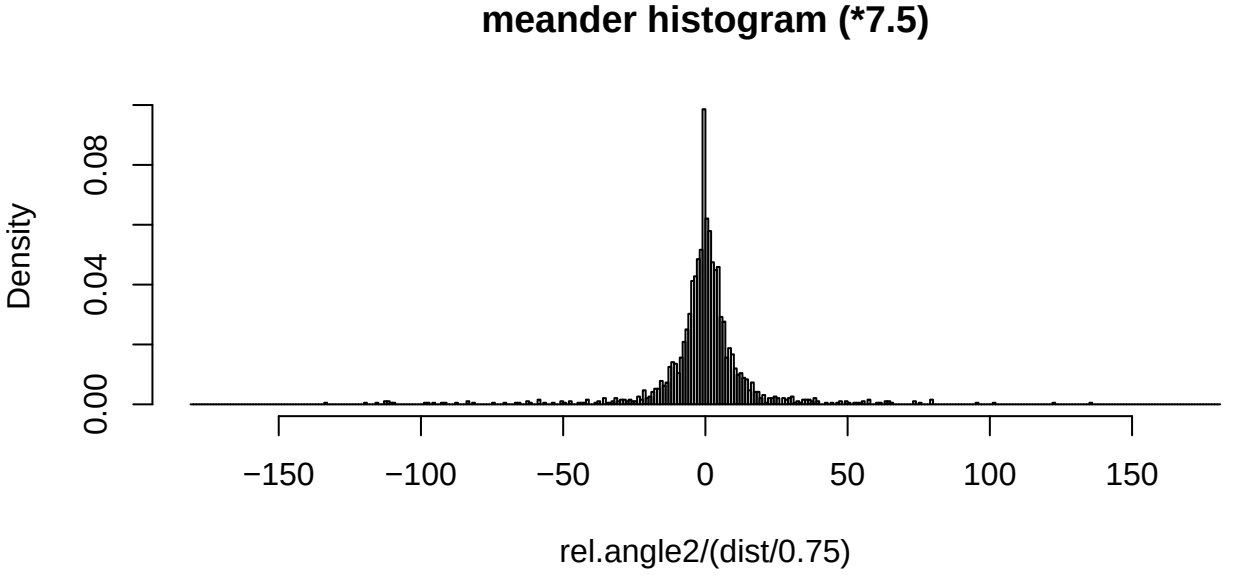

speed average per sec: 169_CS_TP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

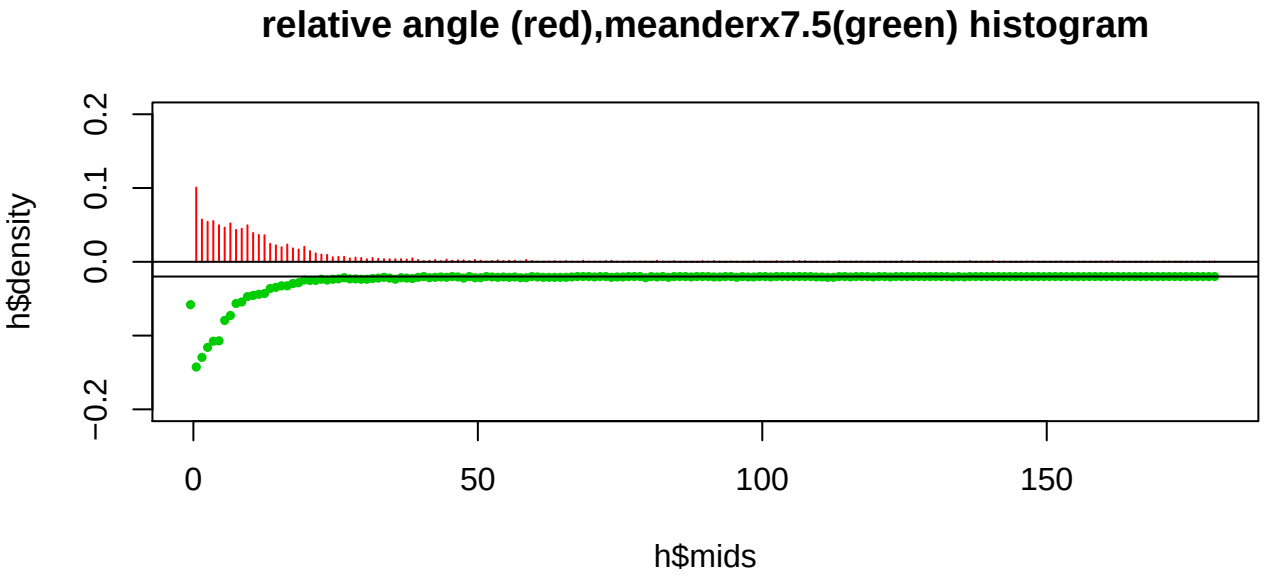

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

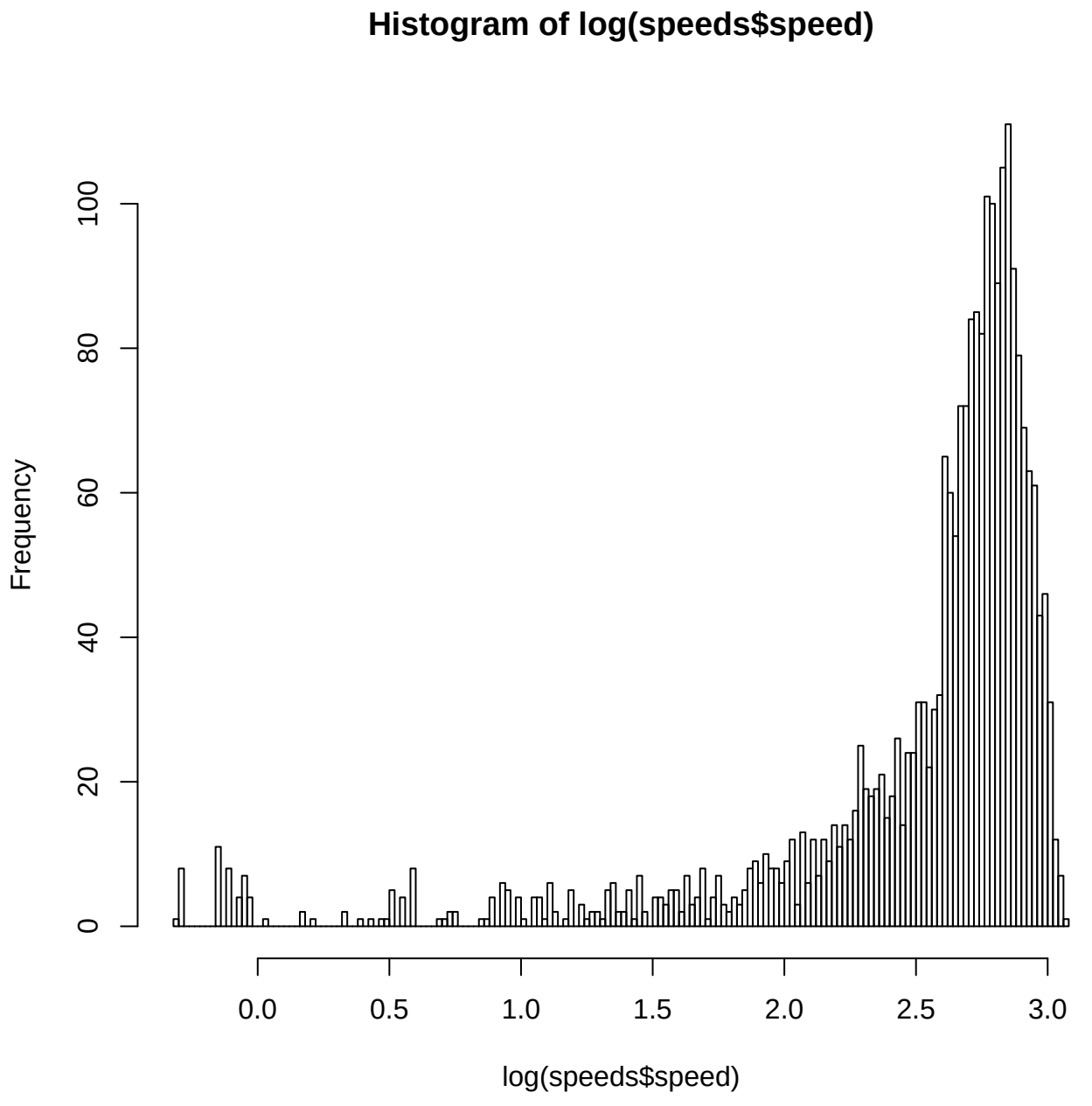

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

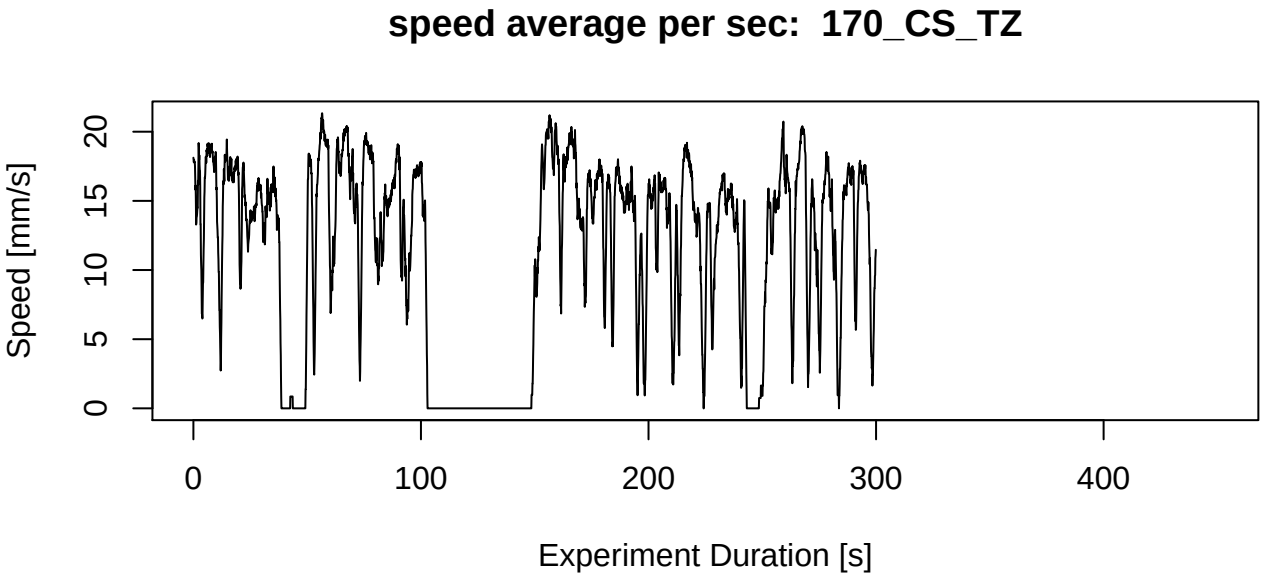

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

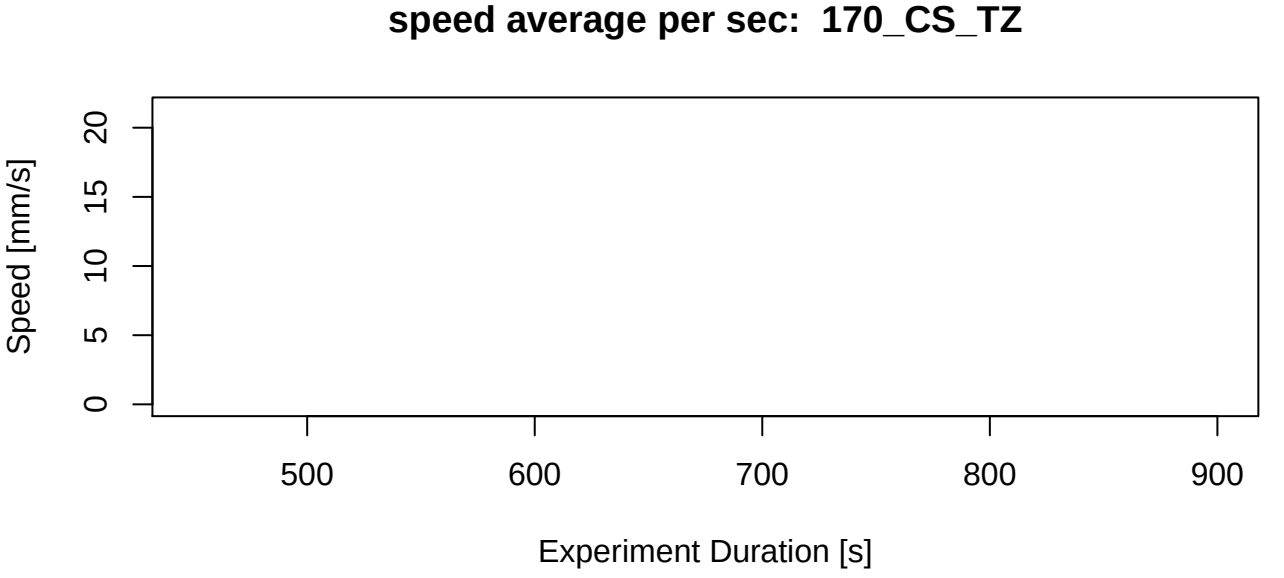

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

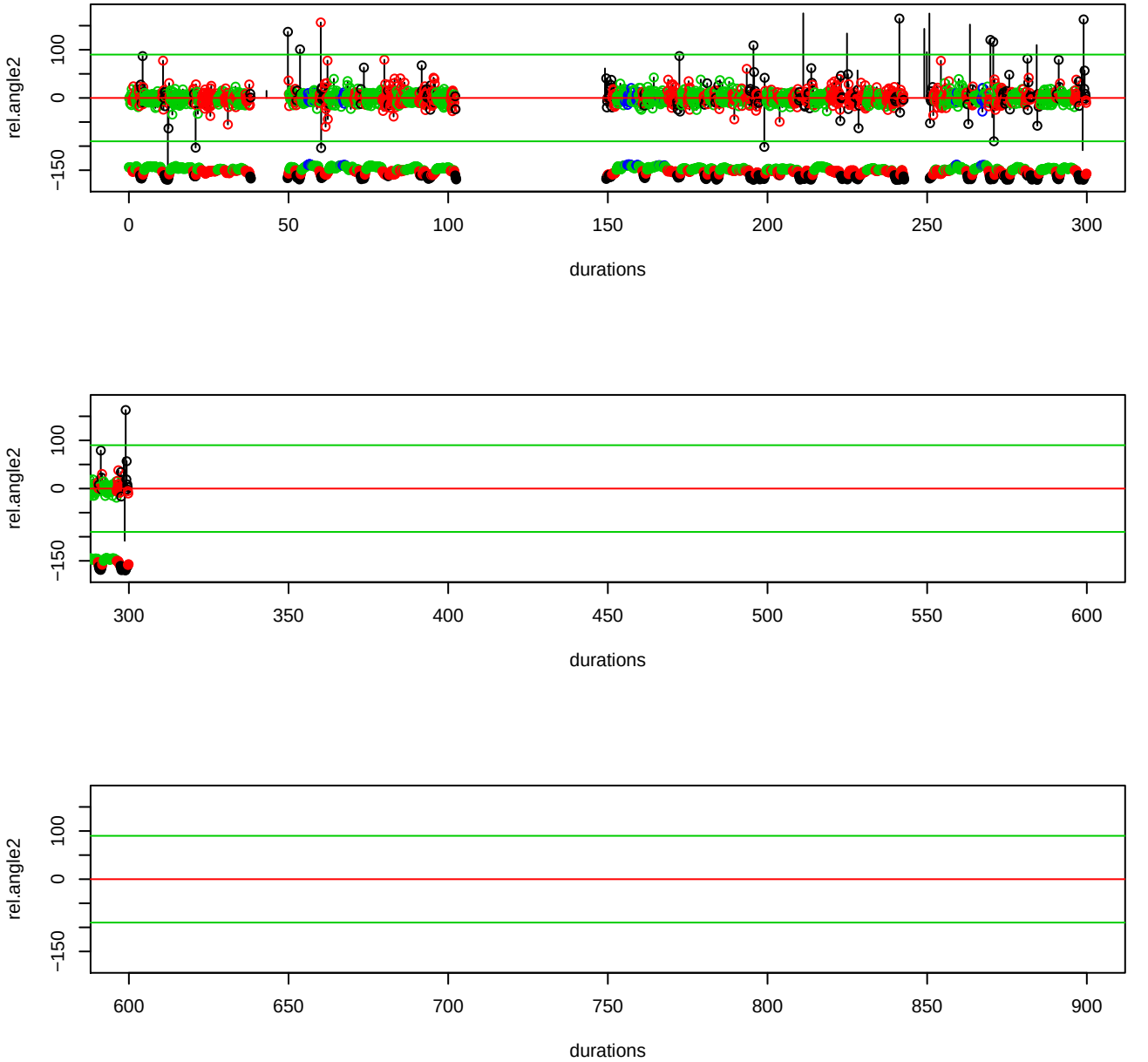

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

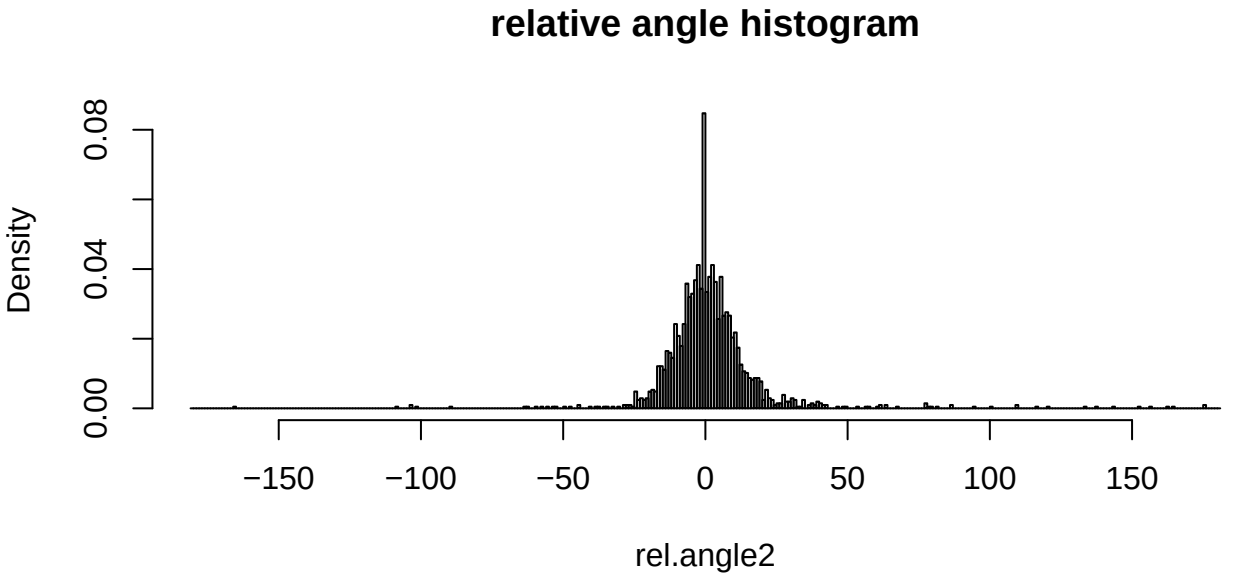

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

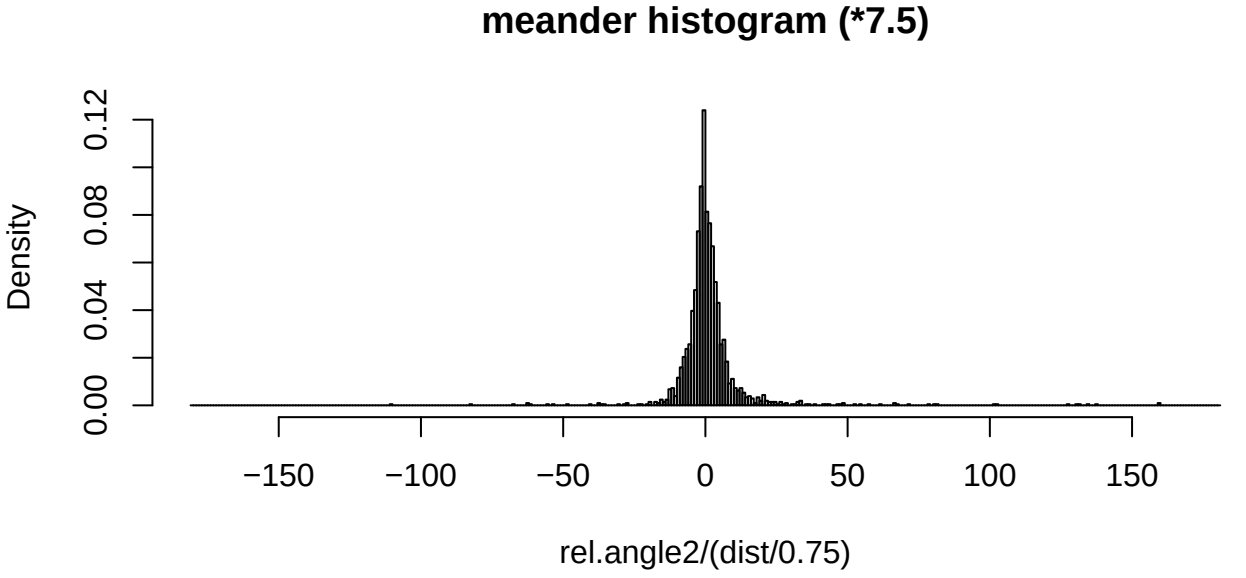

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

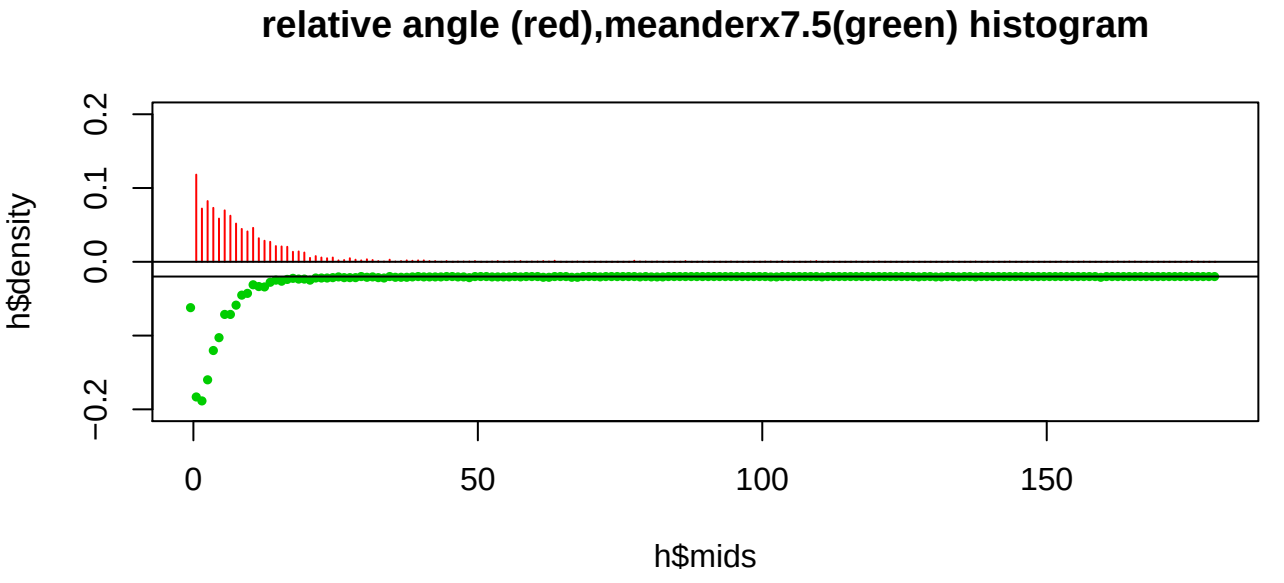

speed average per sec: 170_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

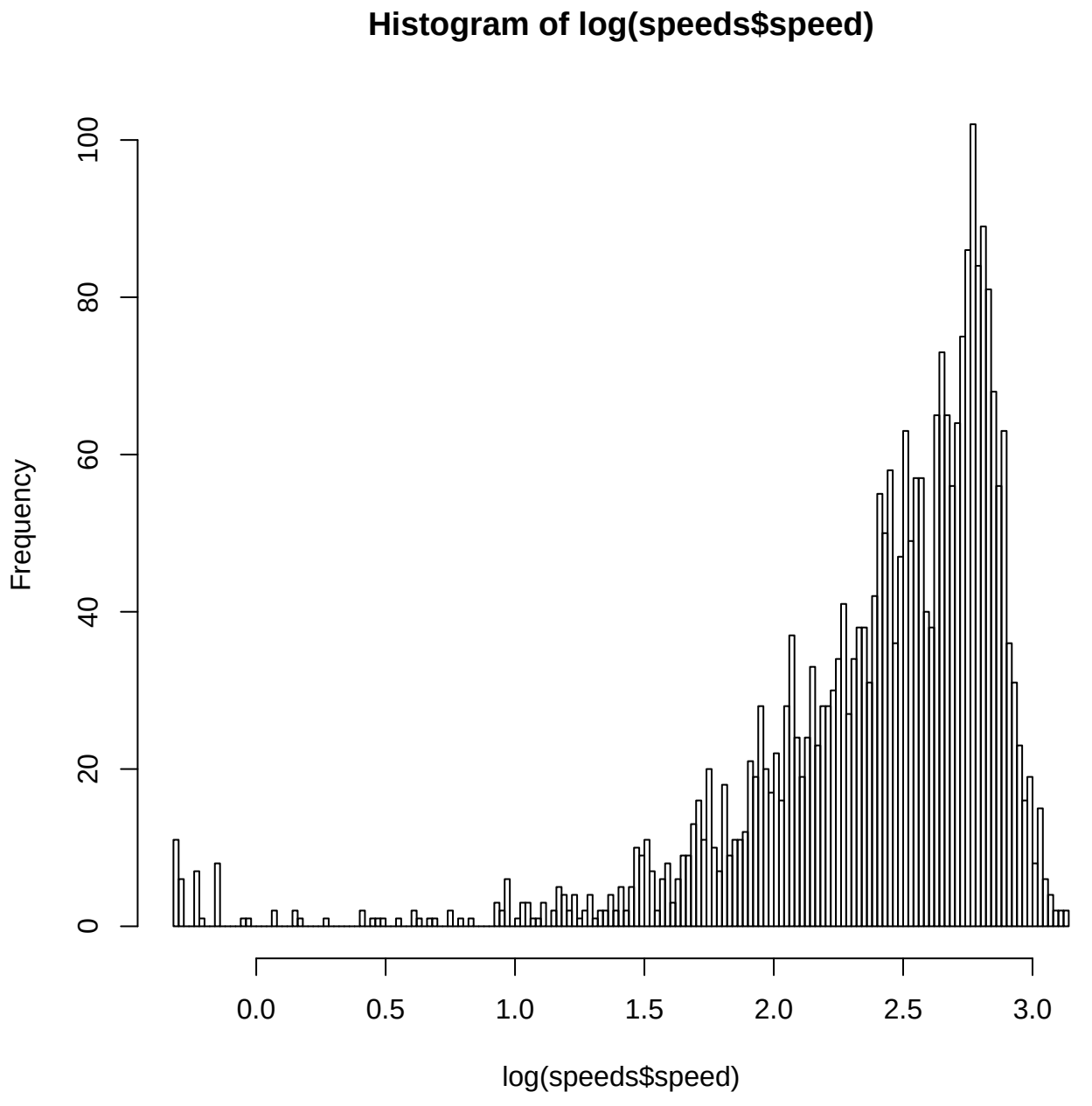

speed average per sec: 170_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

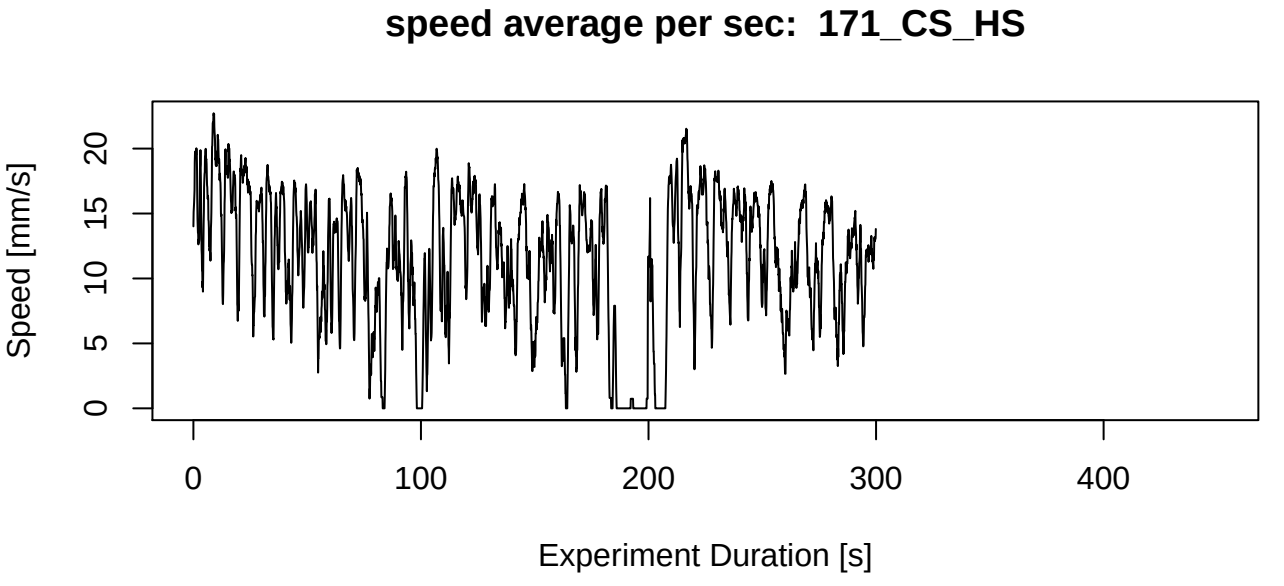

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

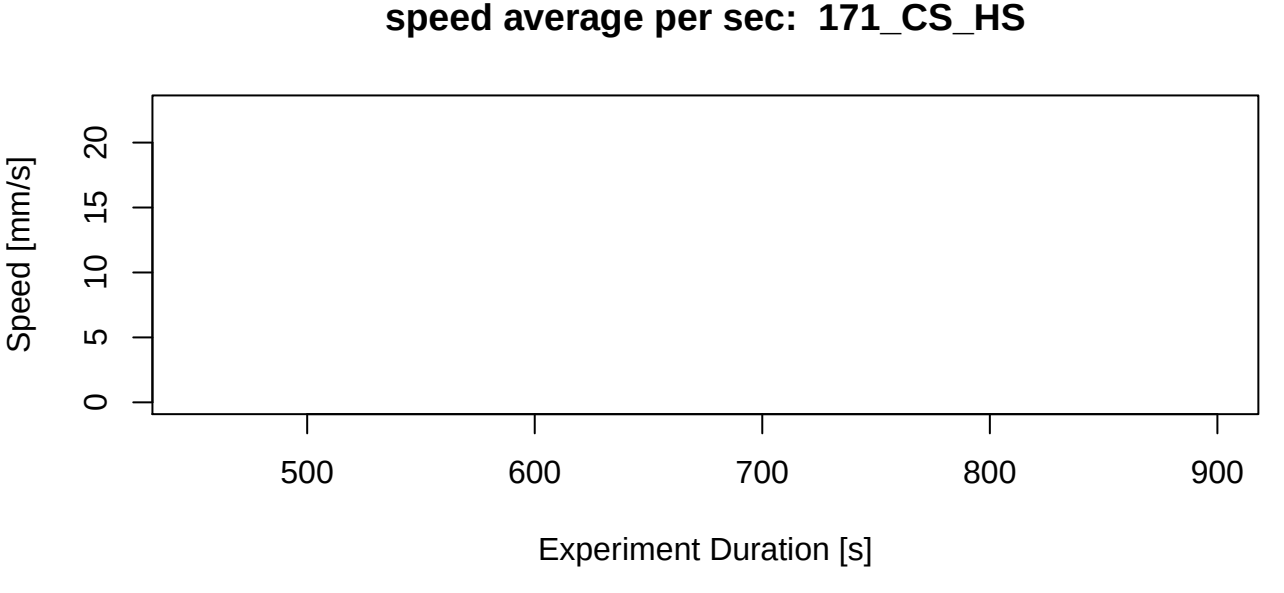

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

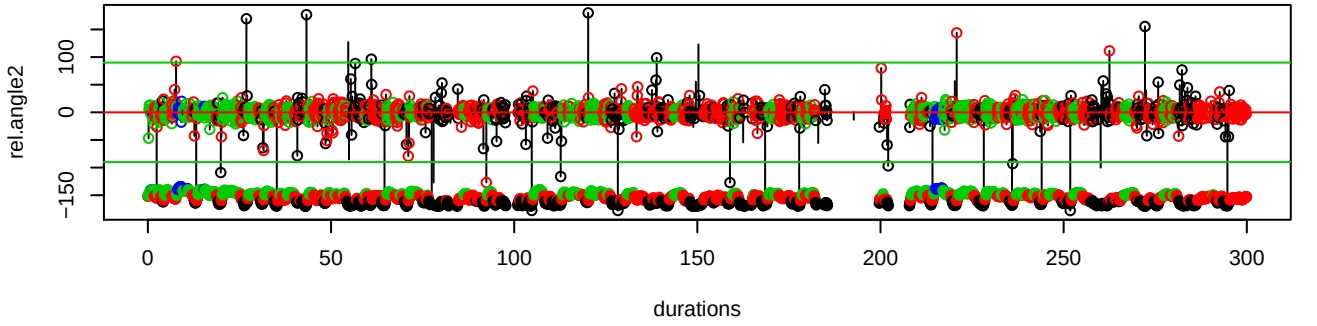

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

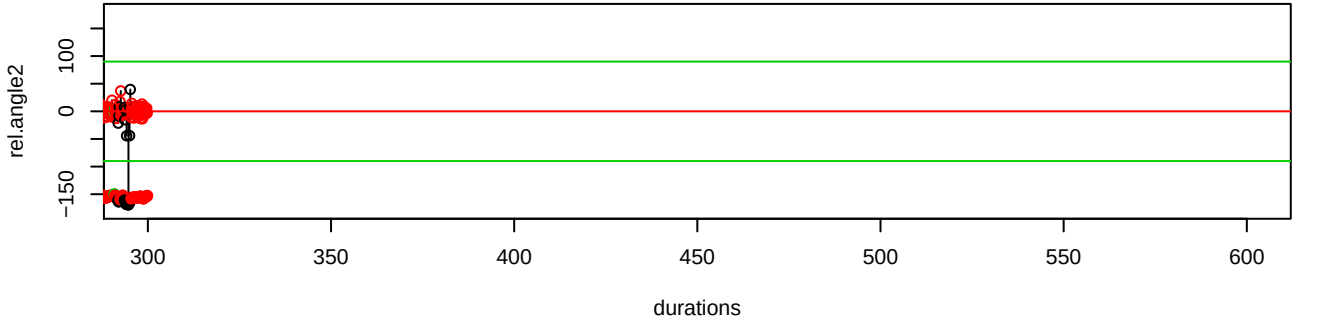

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

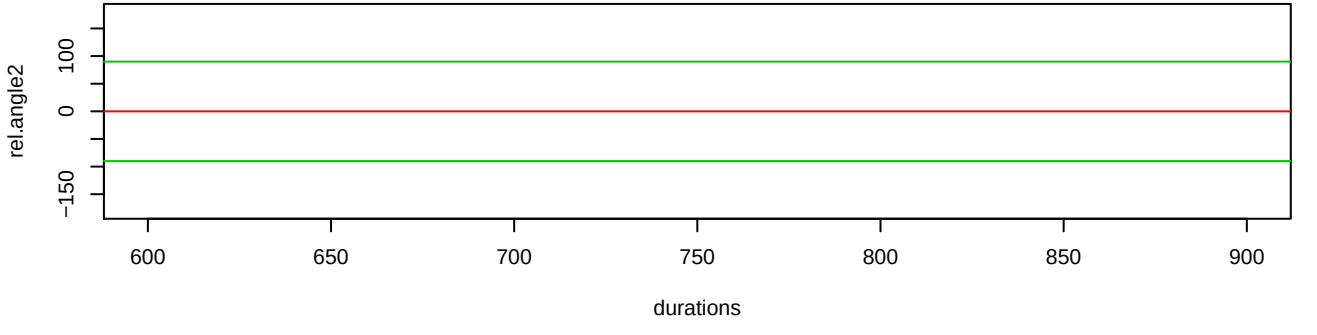

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

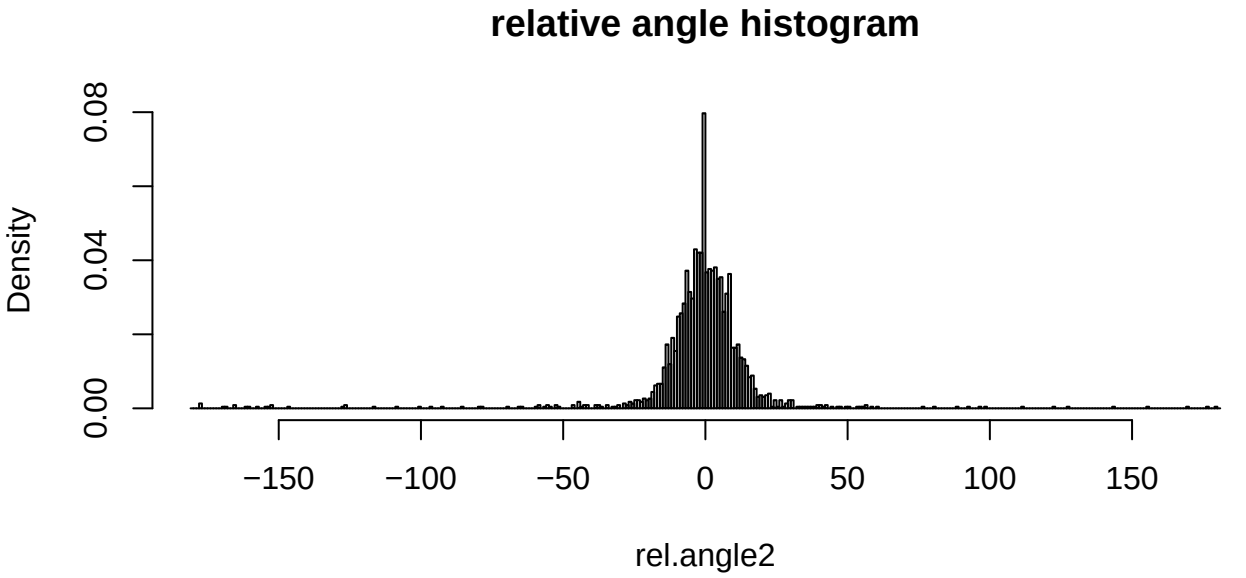

speed average per sec: 171_CS_HS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

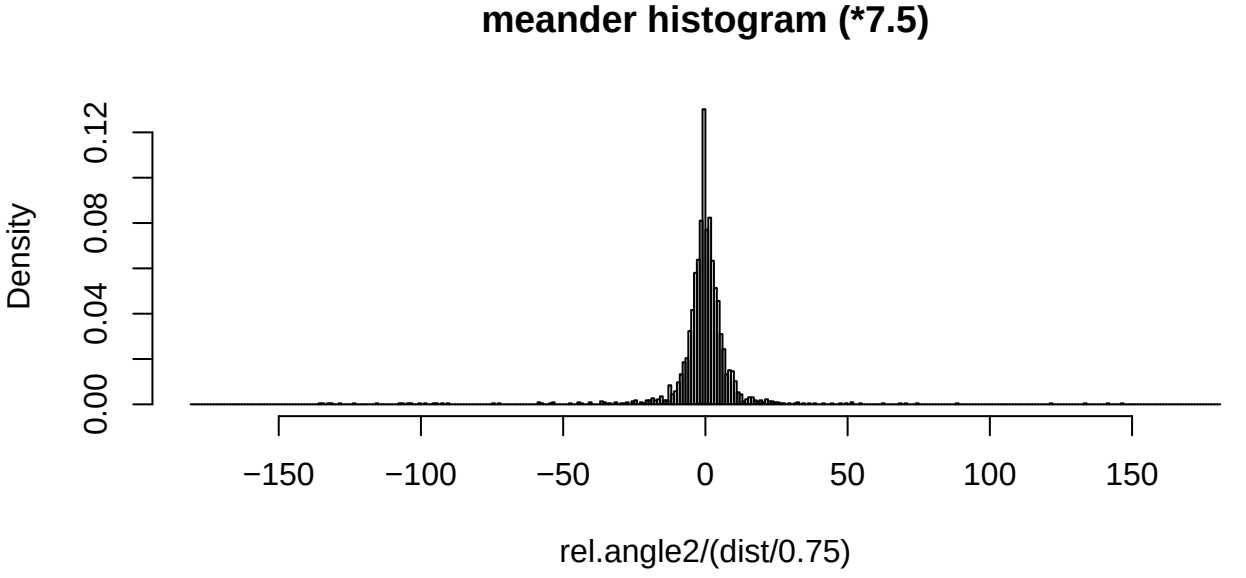

speed average per sec: 171_CS_HS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

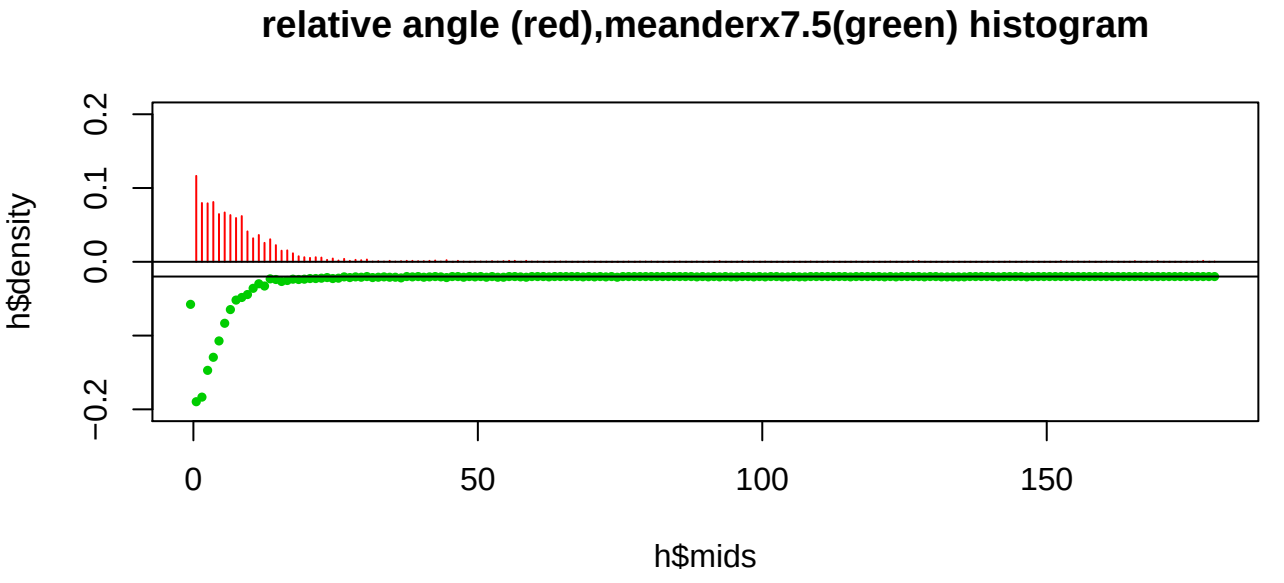

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

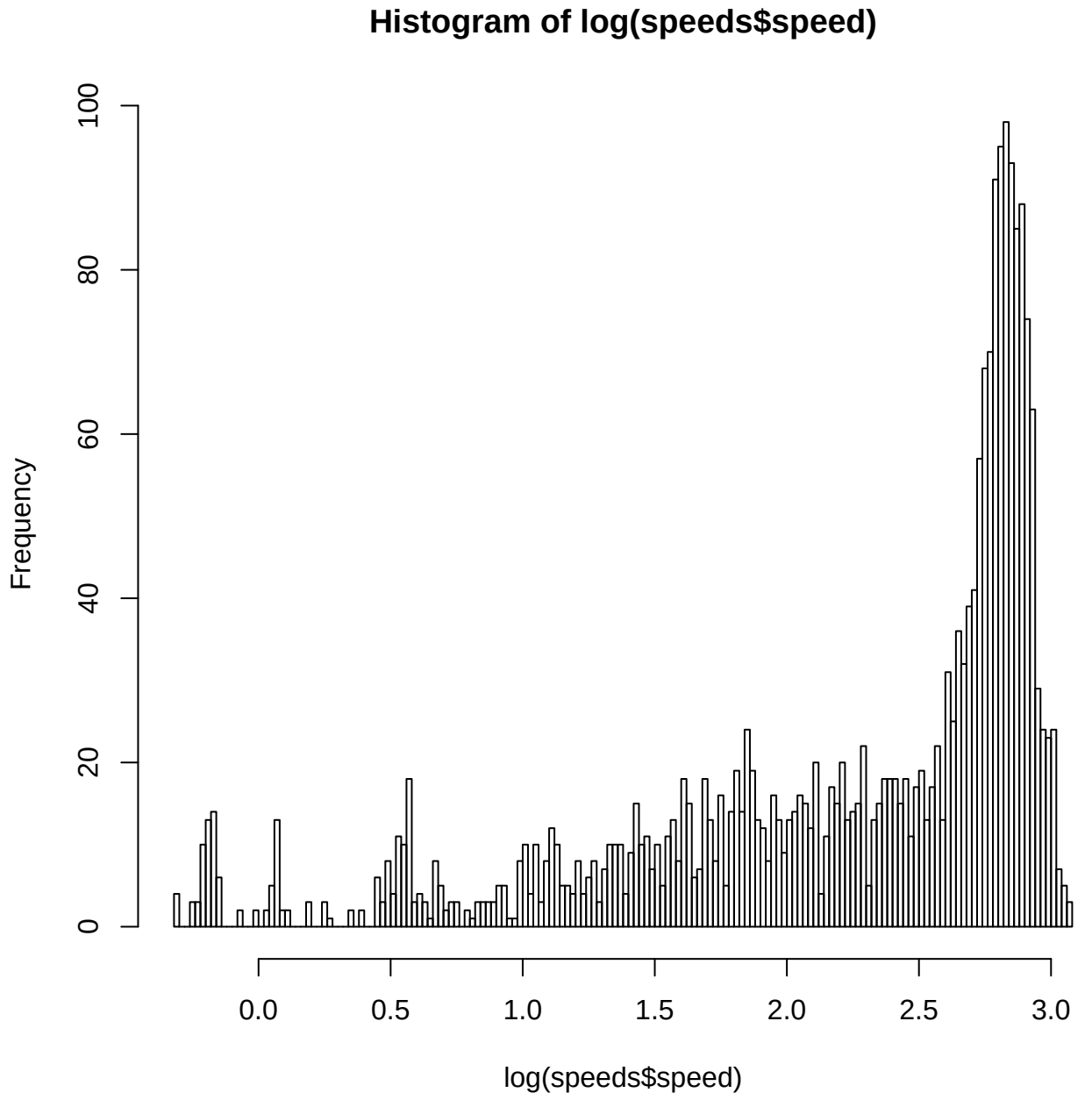

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

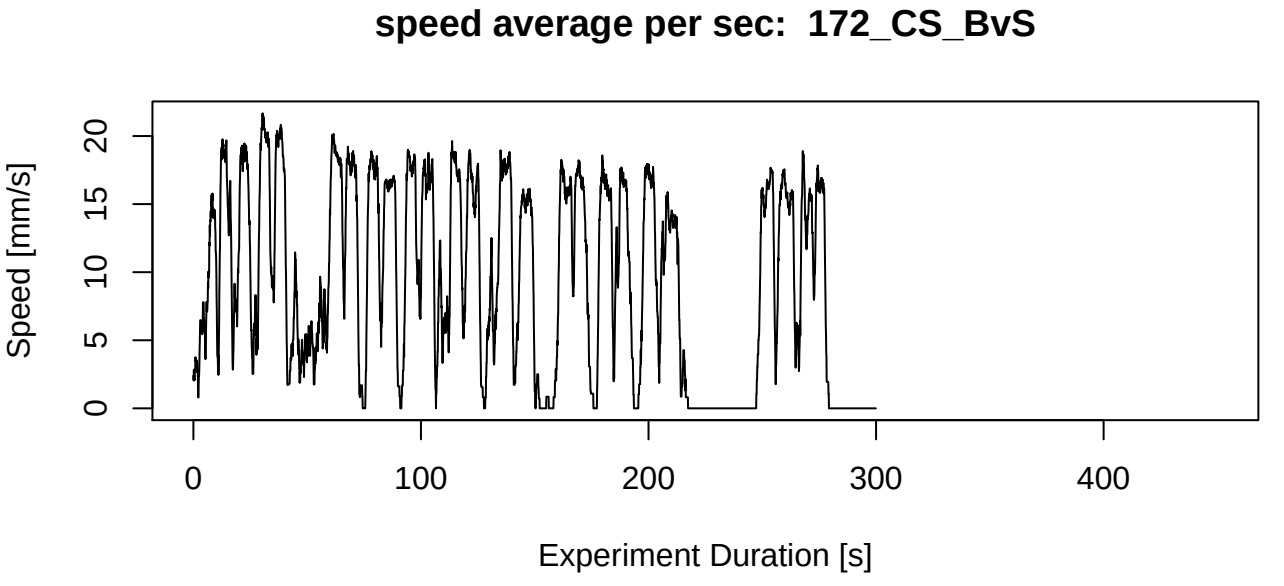

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

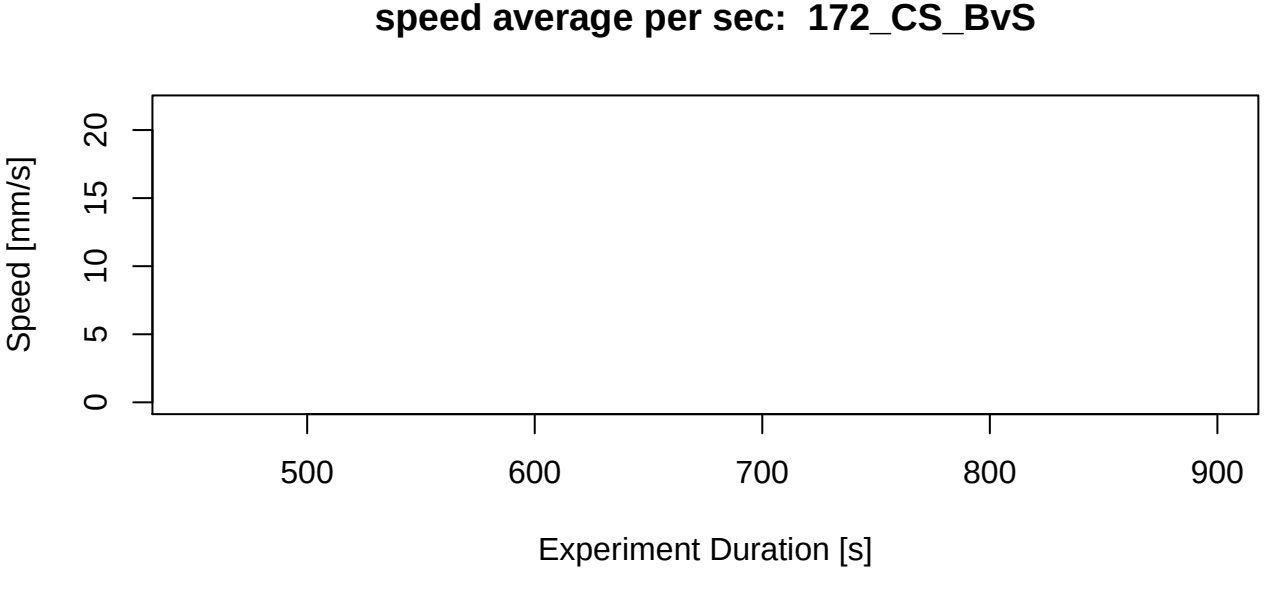

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

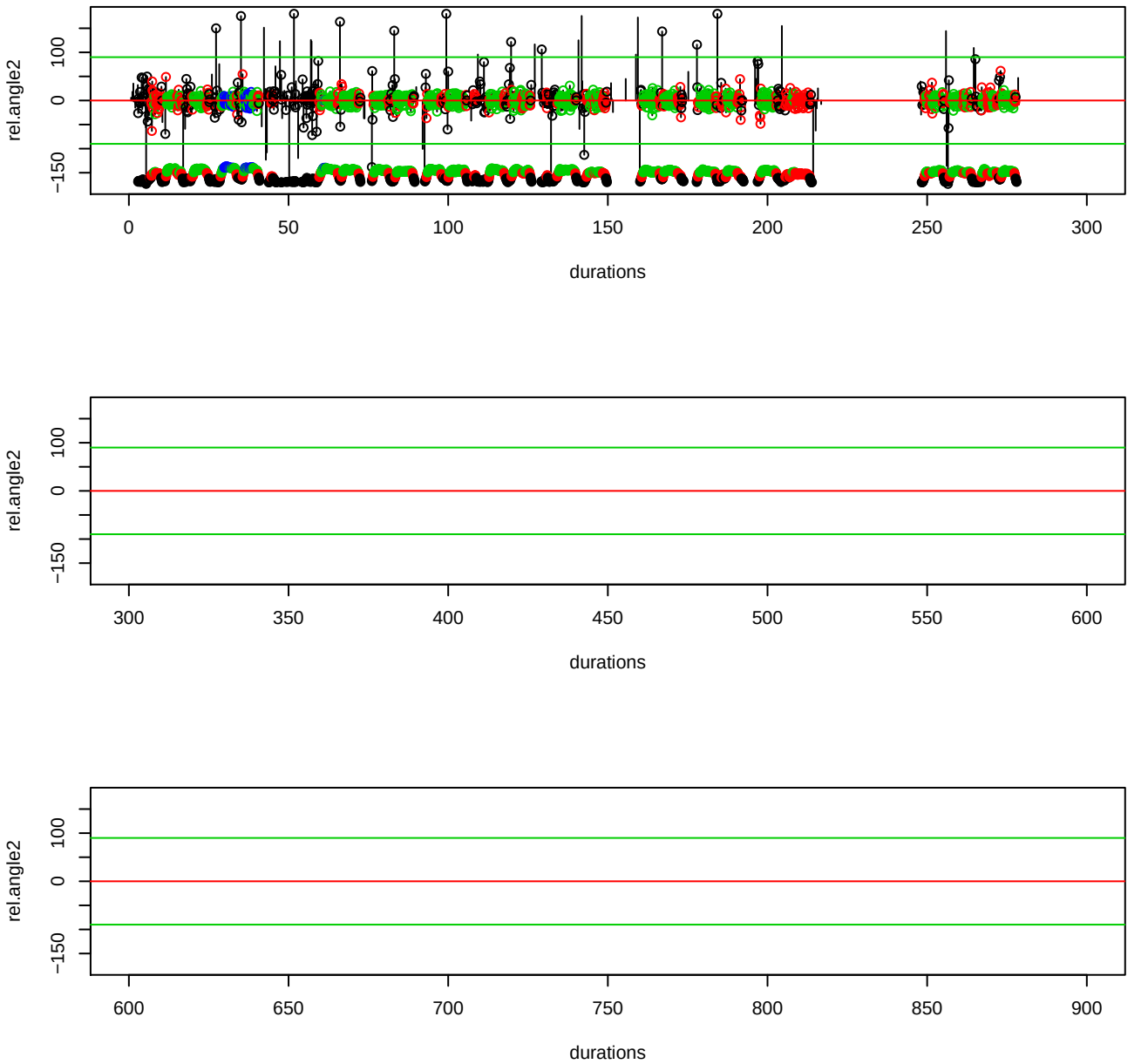

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

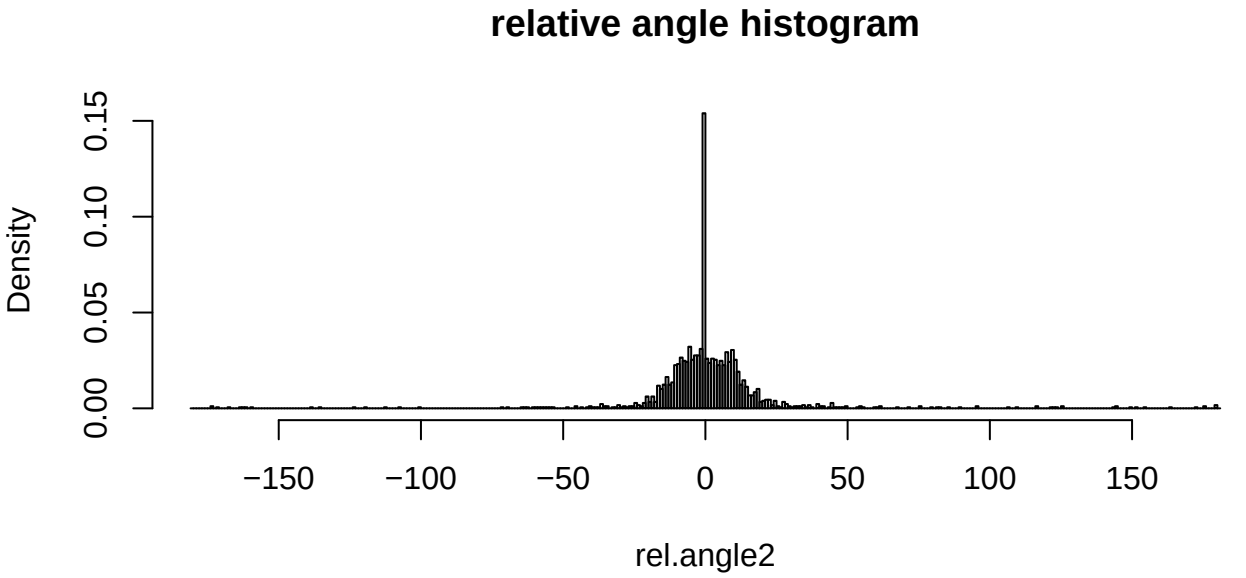

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

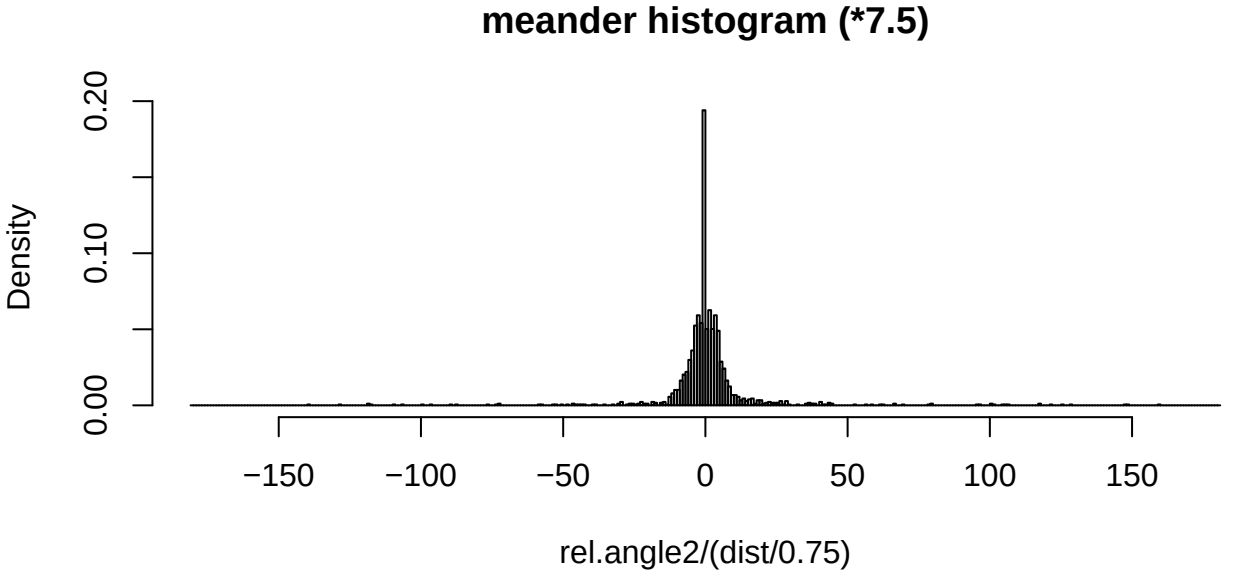

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

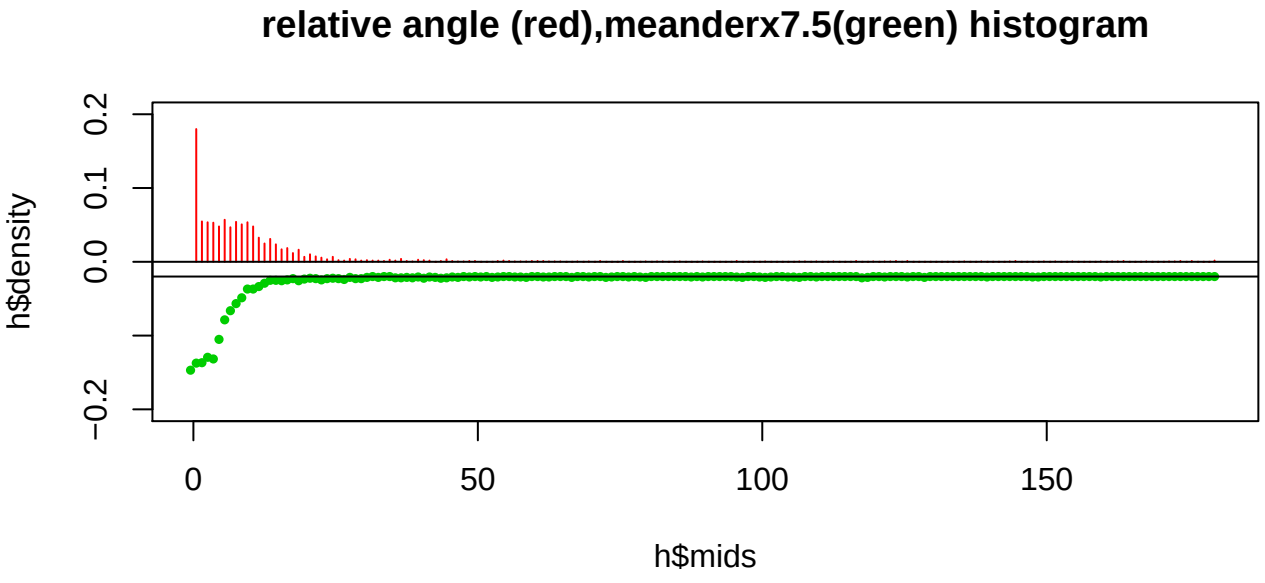

speed average per sec: 172_CS_BvS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

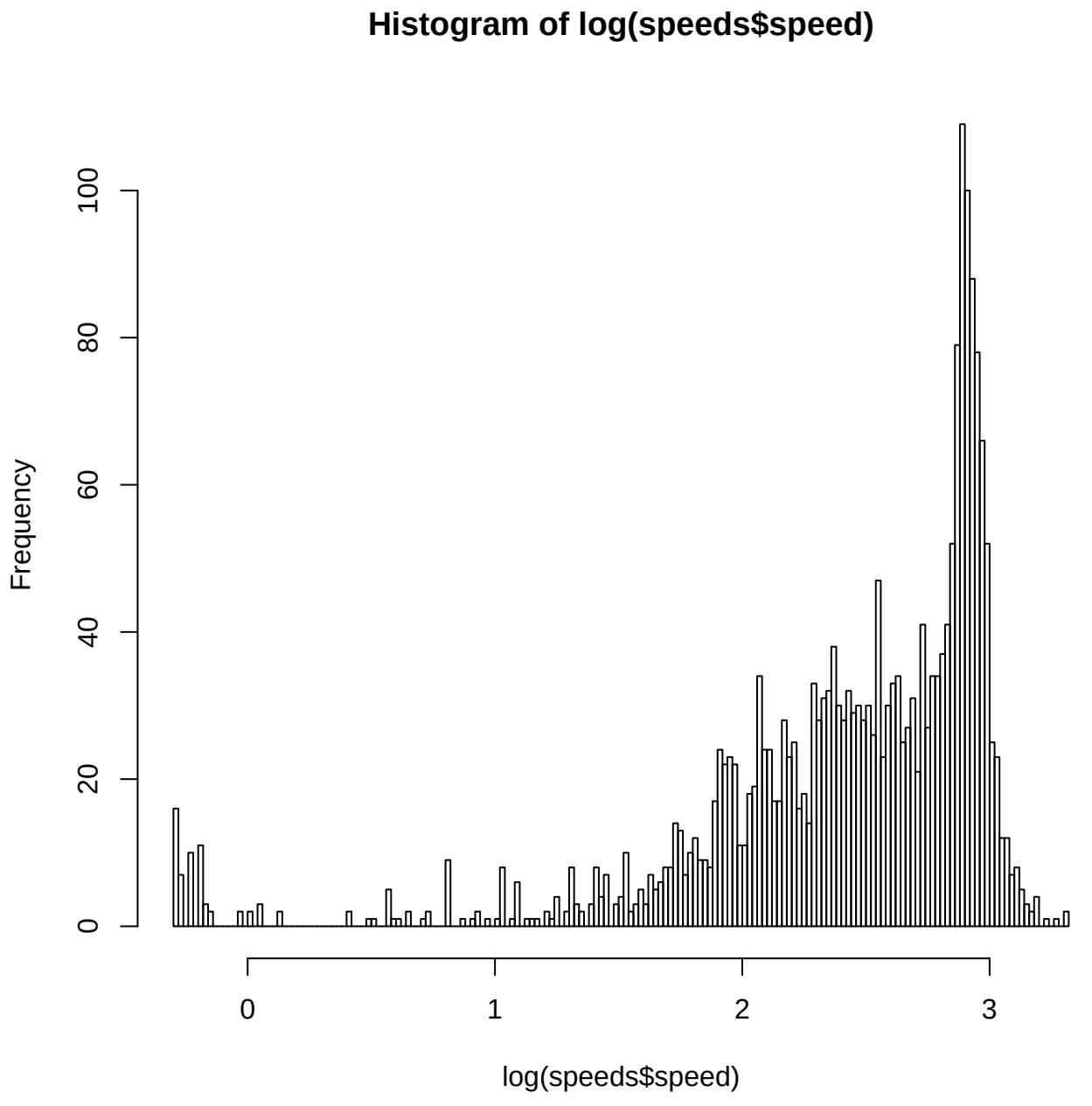

speed average per sec: 172_CS_BvS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

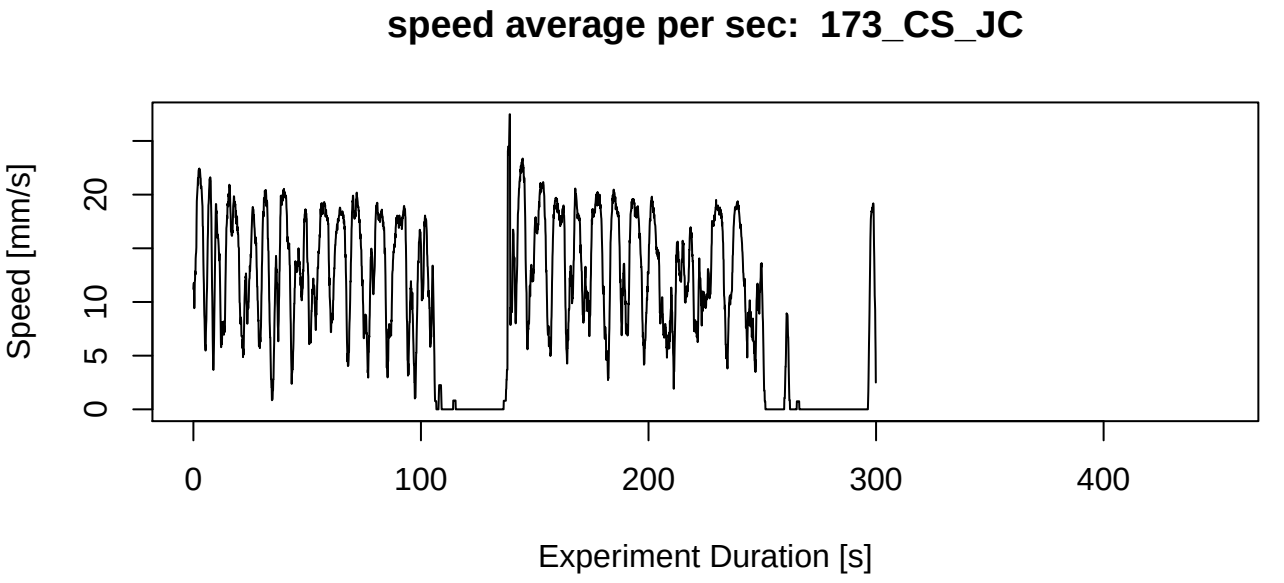

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

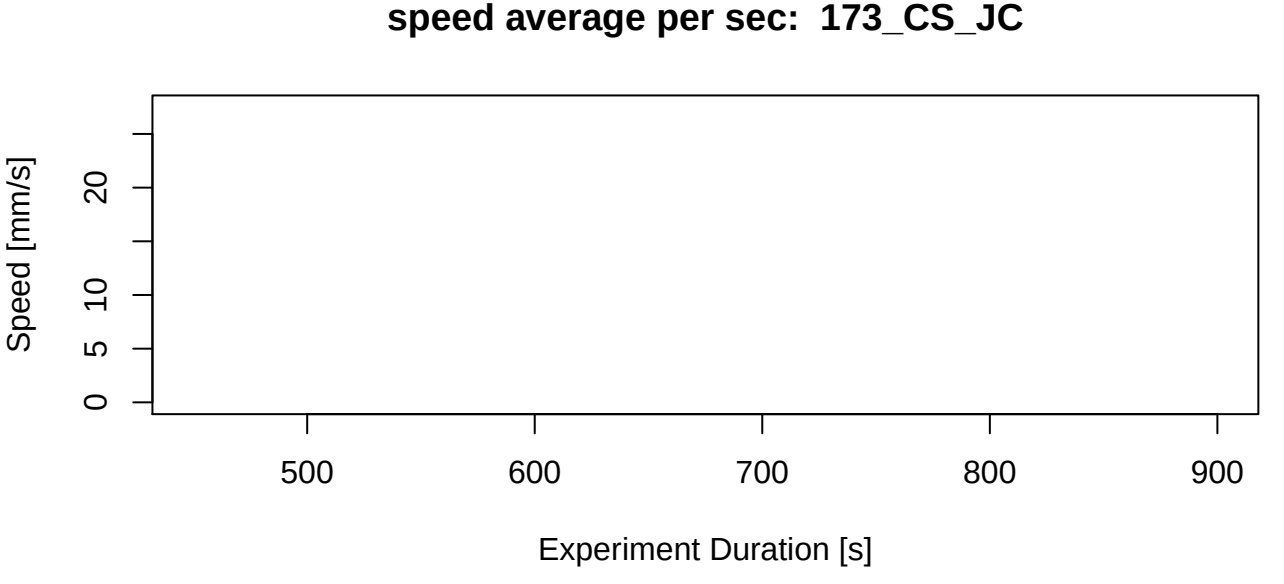

relative angle histogram
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2

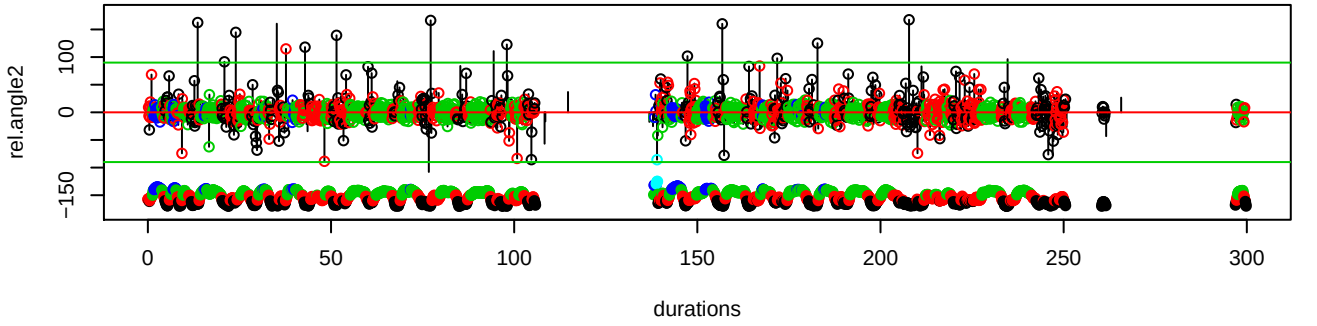

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

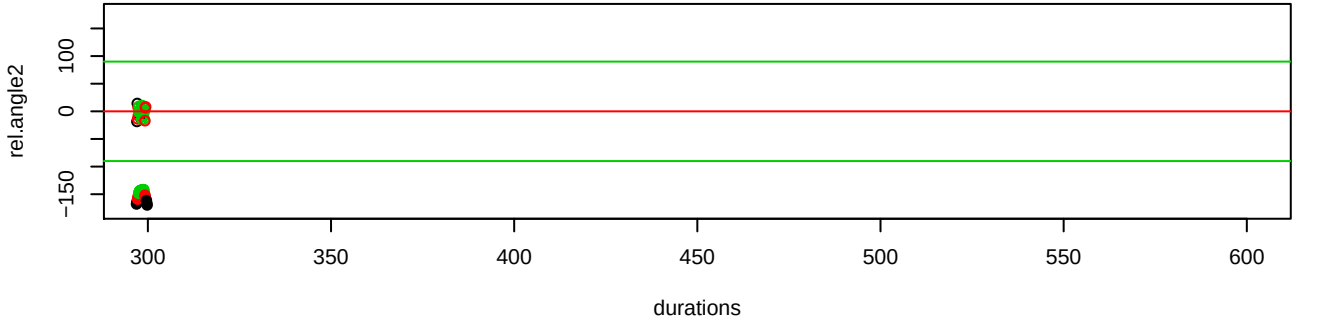

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

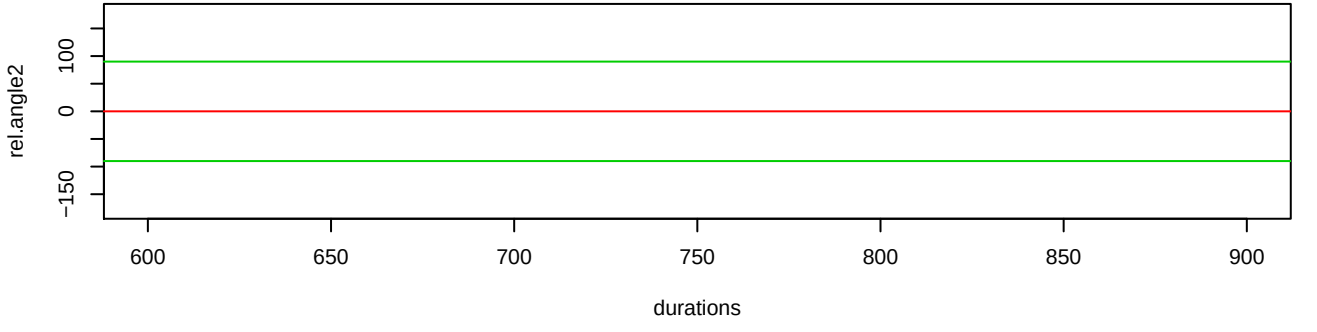

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0
1
2
3
log(speeds$speed)

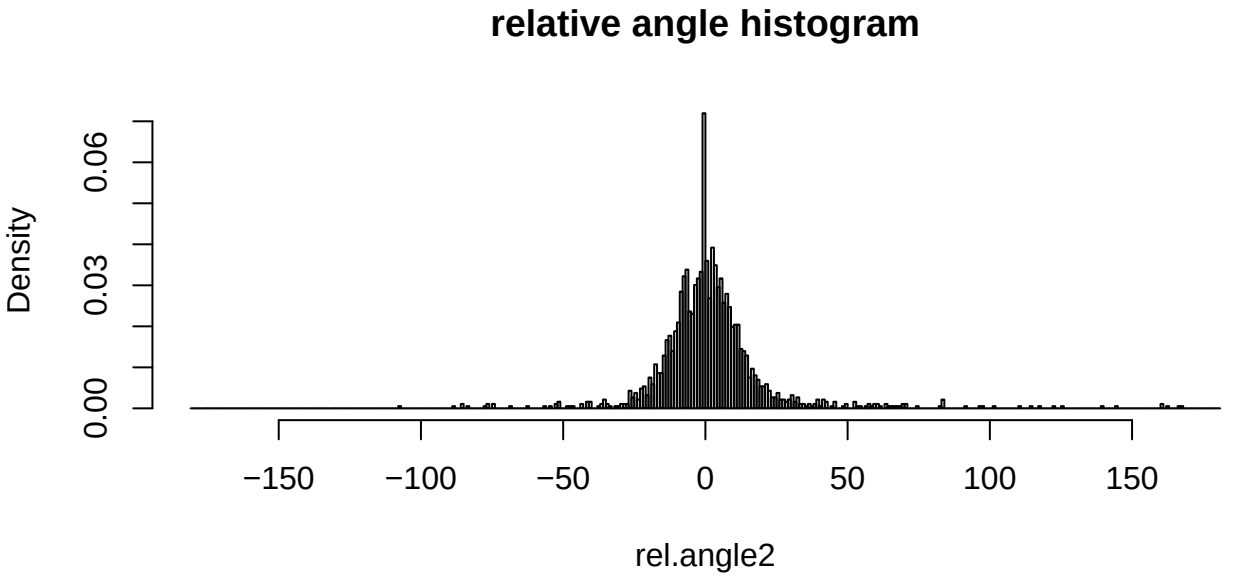

speed average per sec: 173_CS_JC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

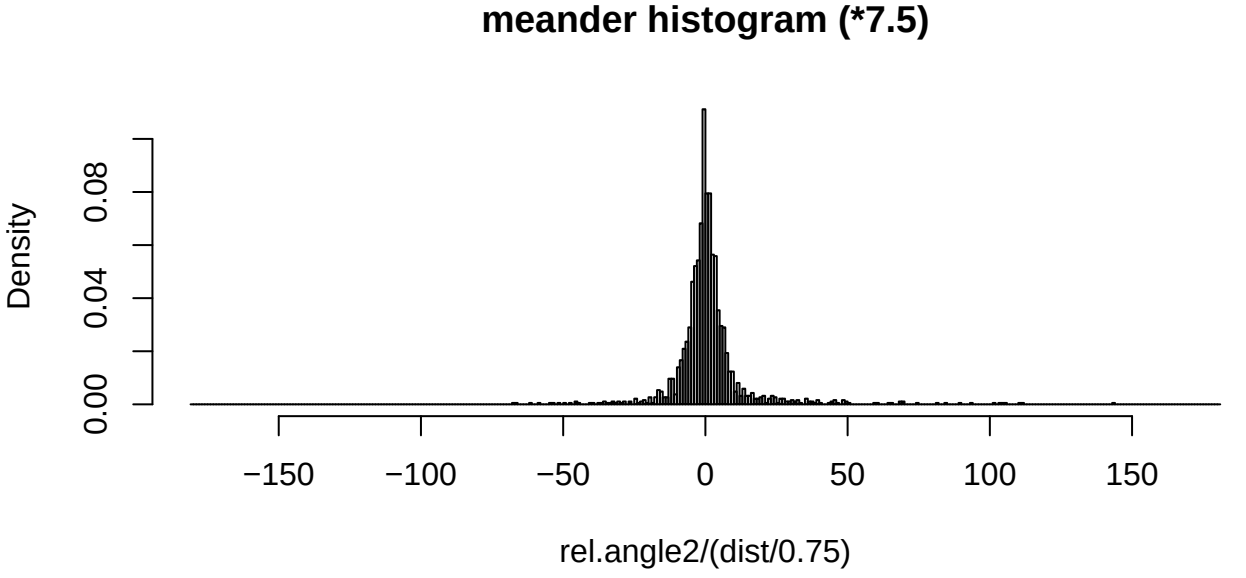

speed average per sec: 173_CS_JC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

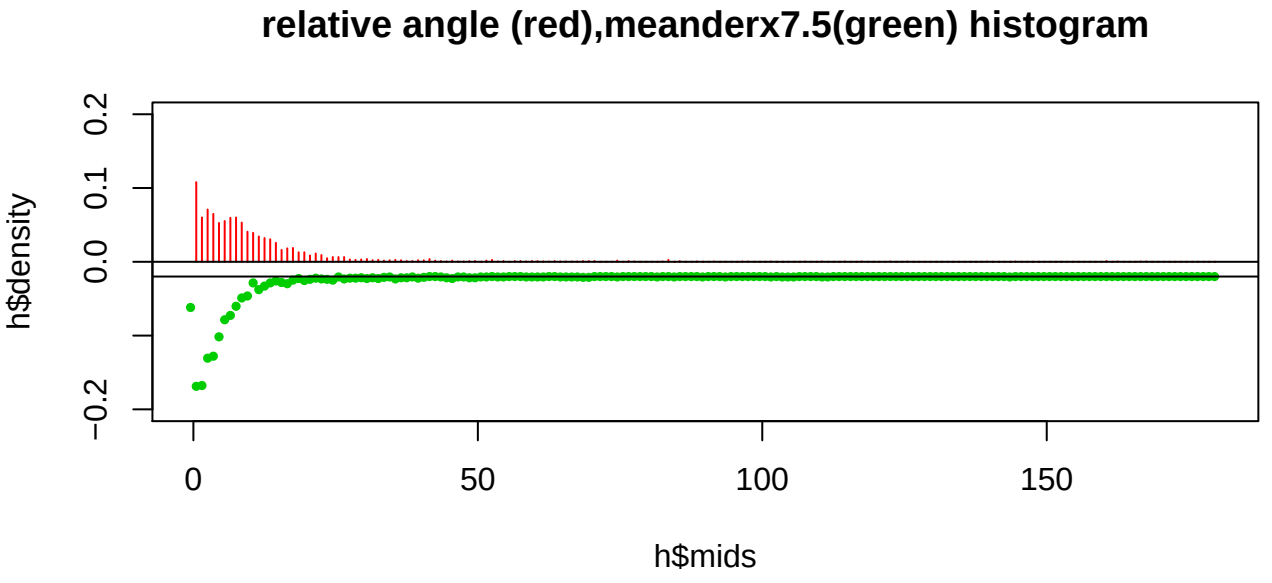

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

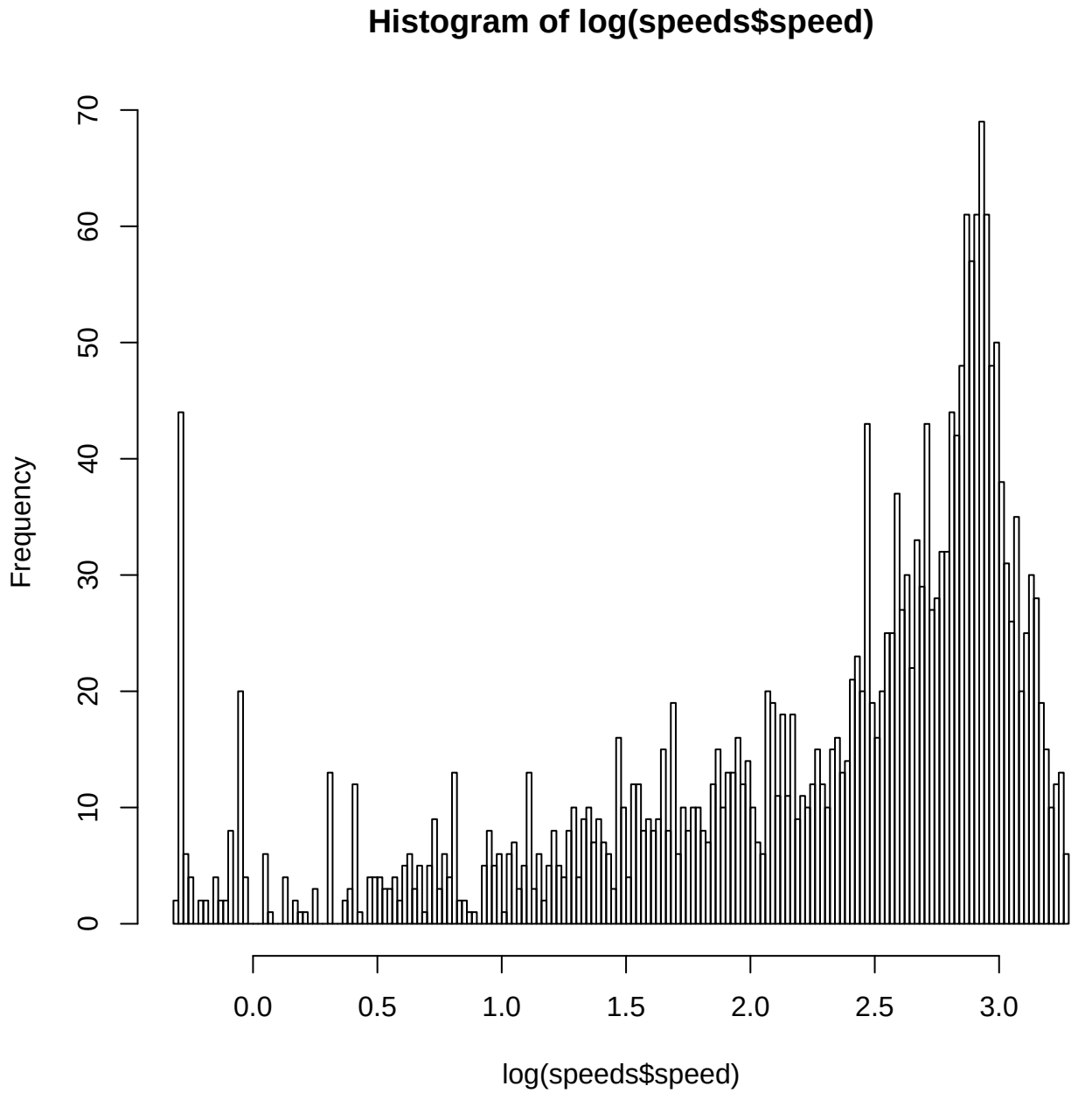

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

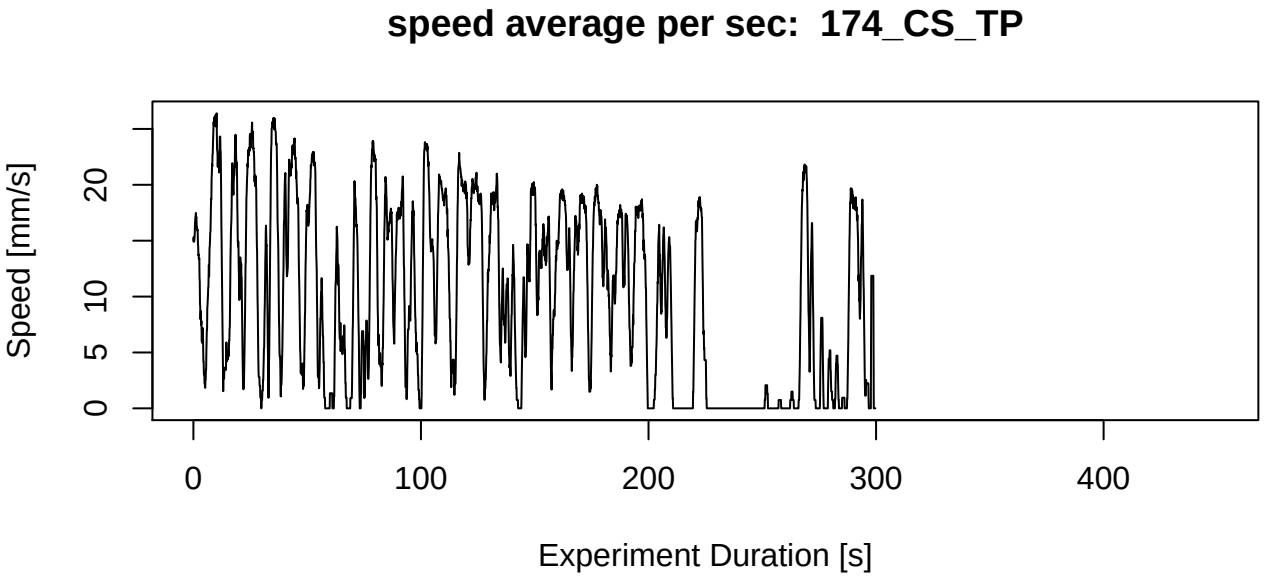

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

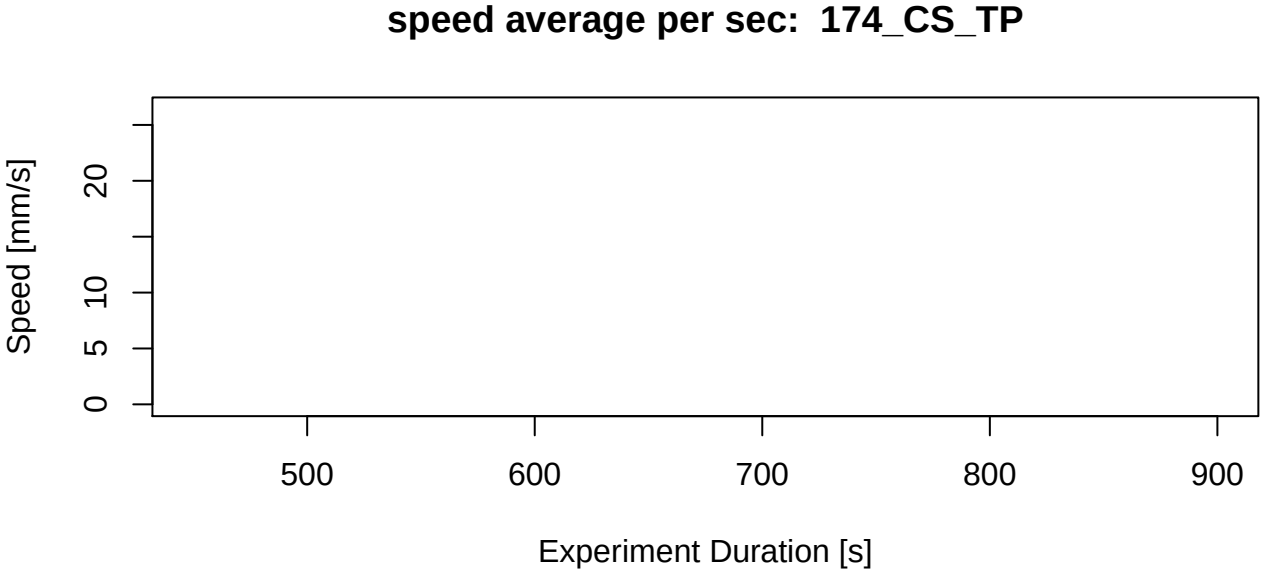

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

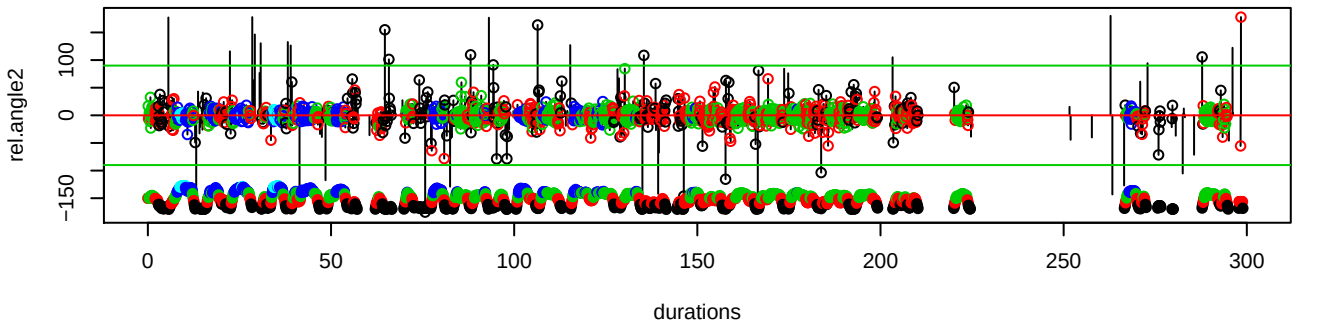

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

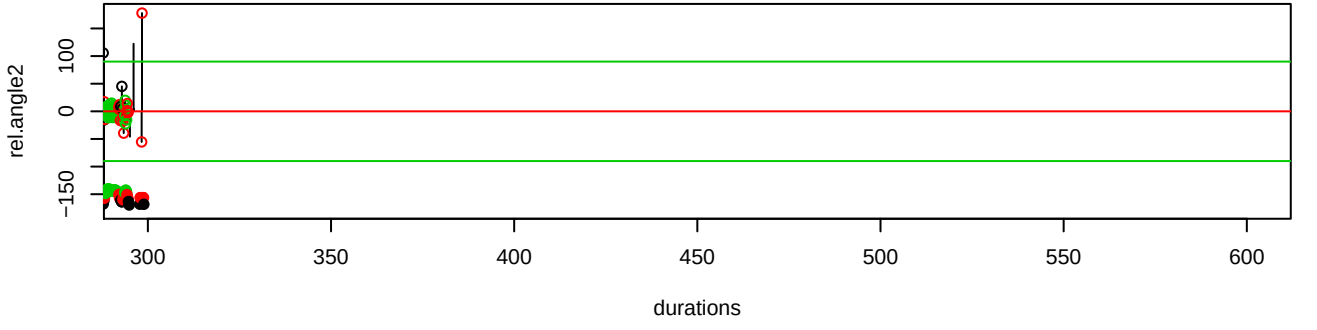

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

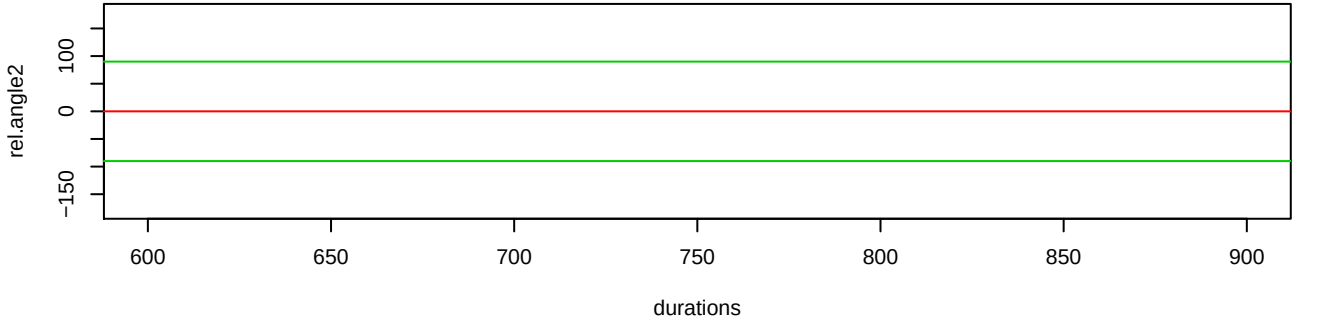

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

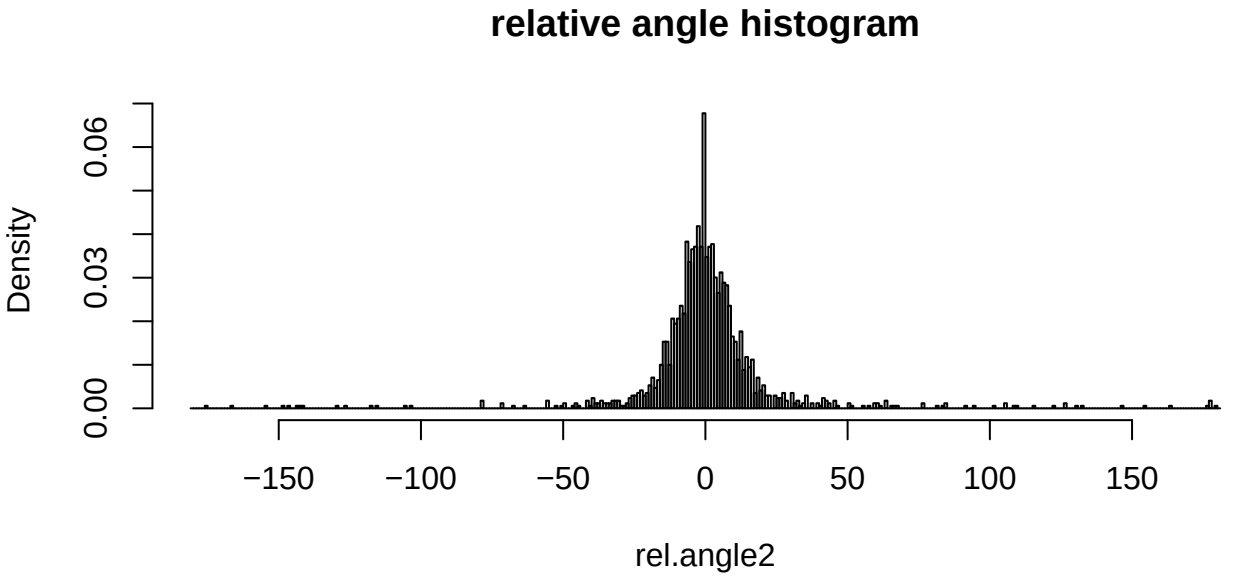

speed average per sec: 174_CS_TP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

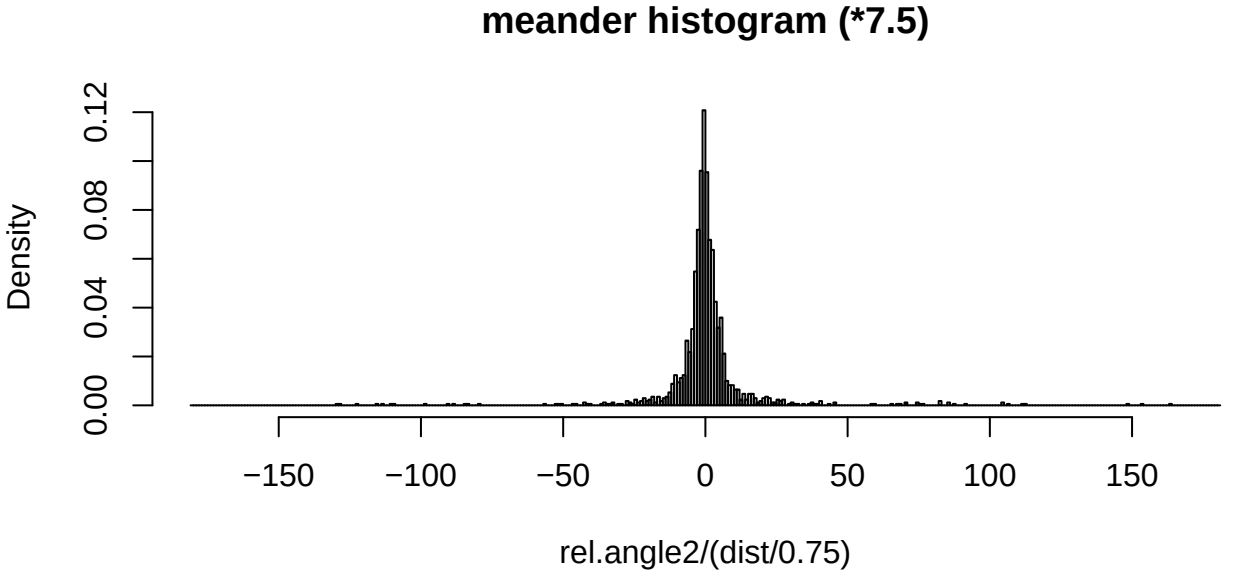

speed average per sec: 174_CS_TP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

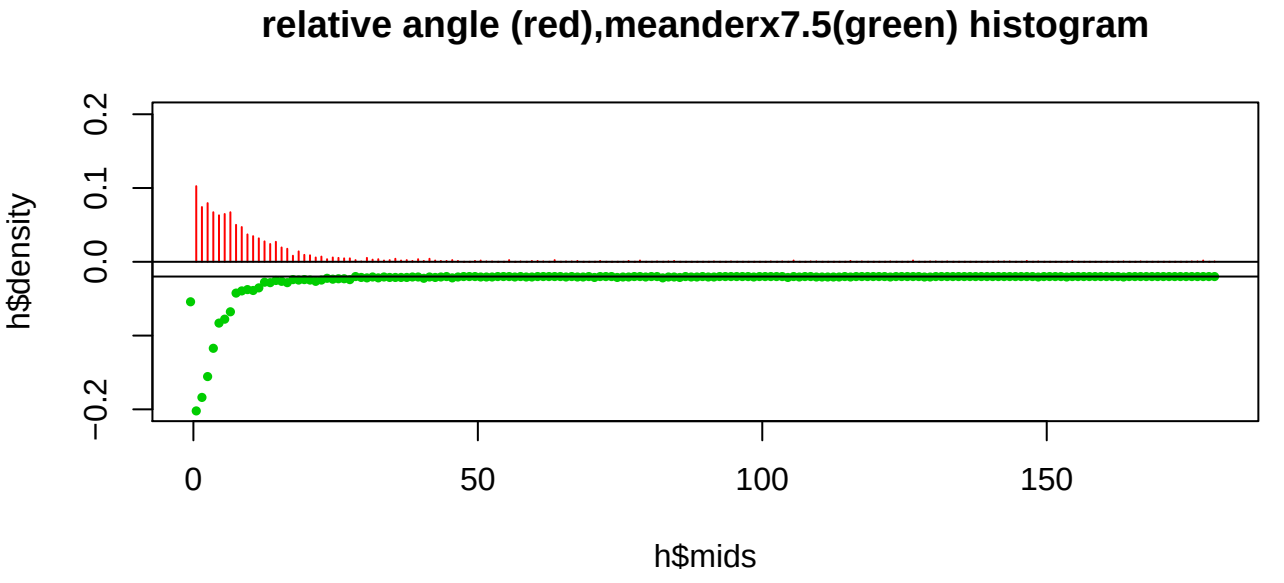

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

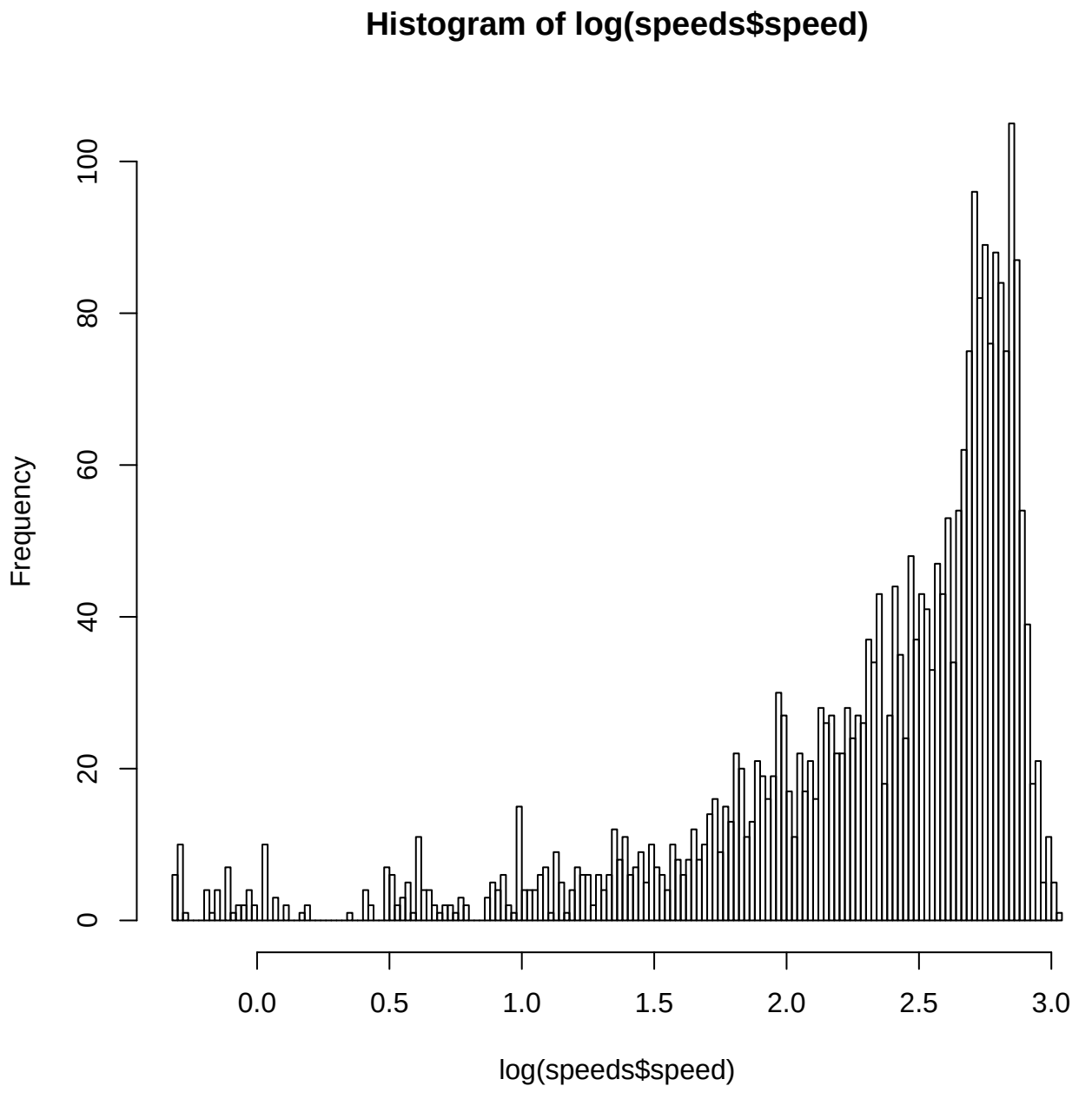

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

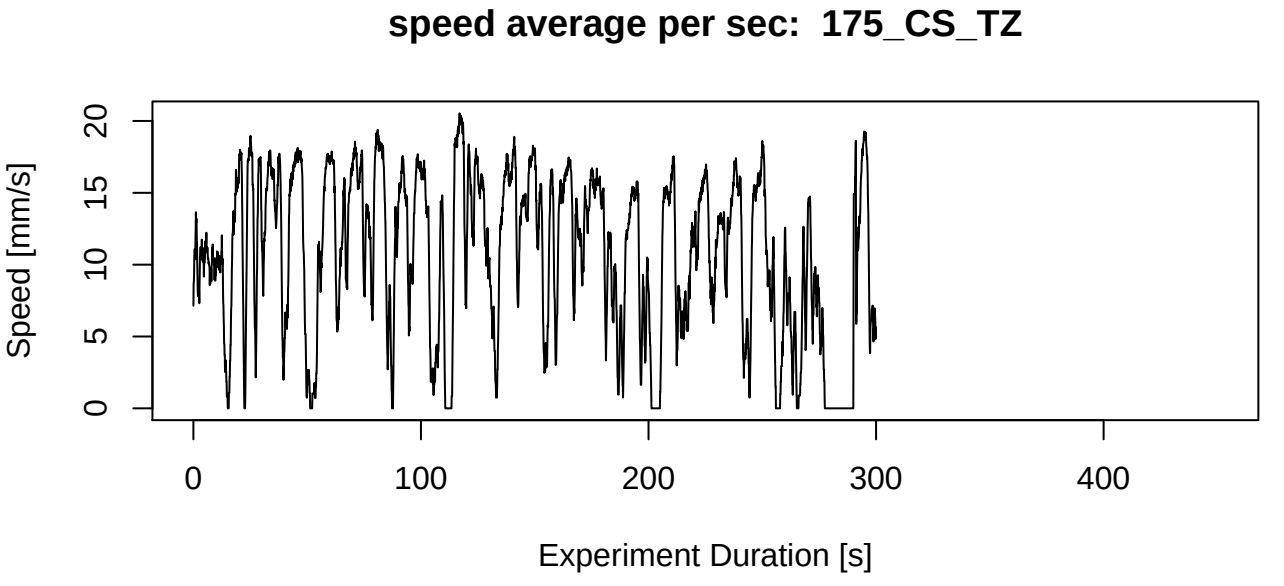

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

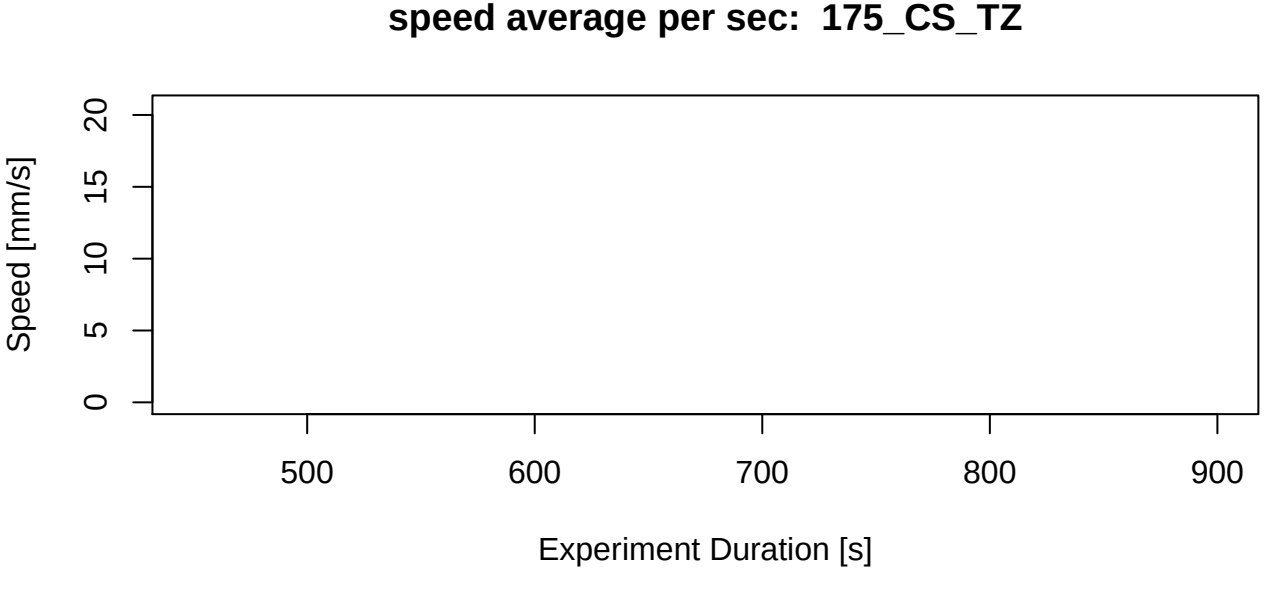

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

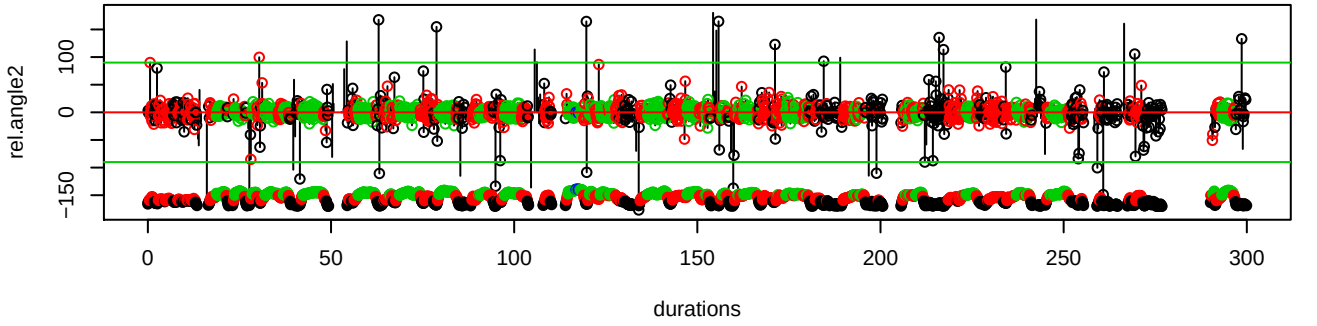

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

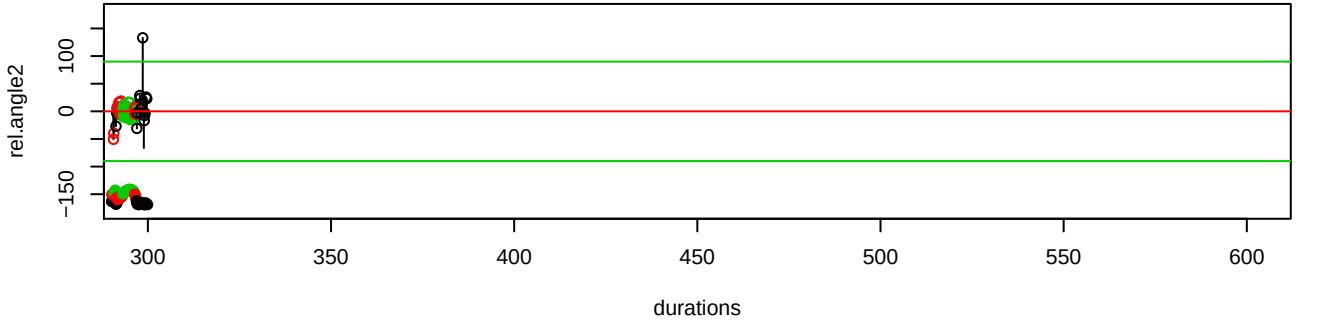

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

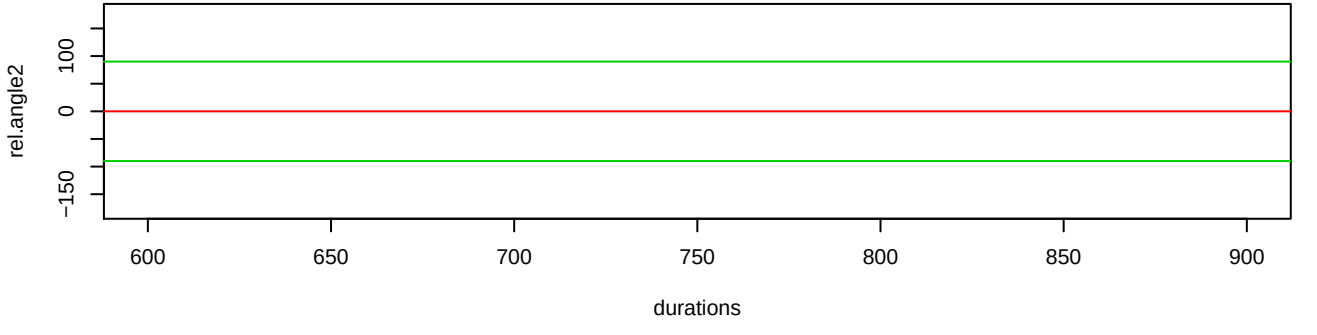

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

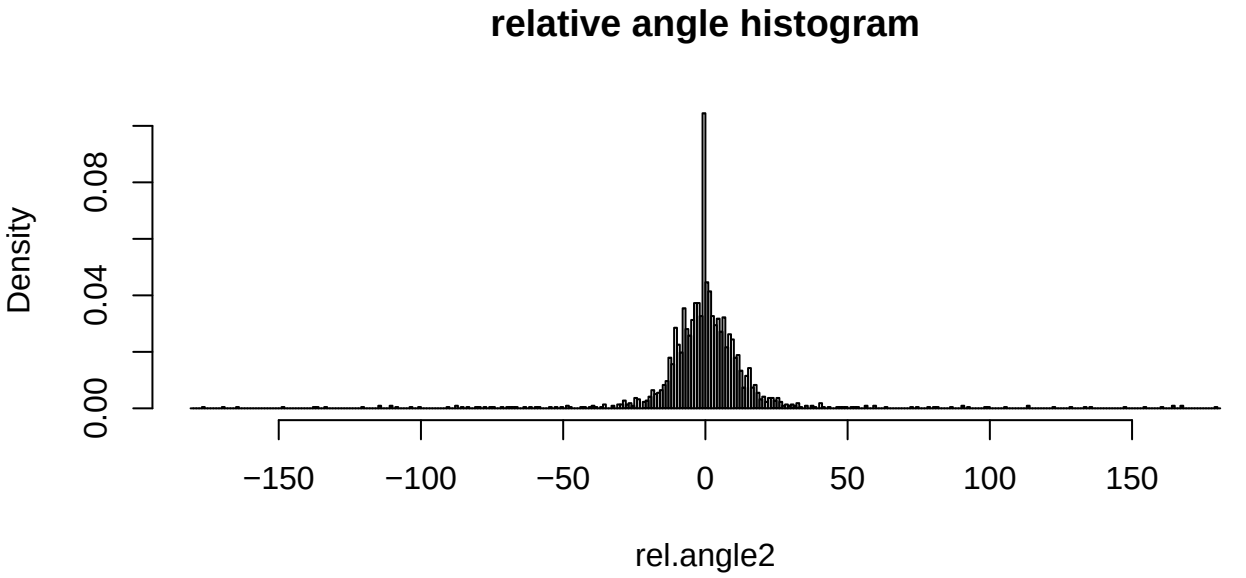

speed average per sec: 175_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

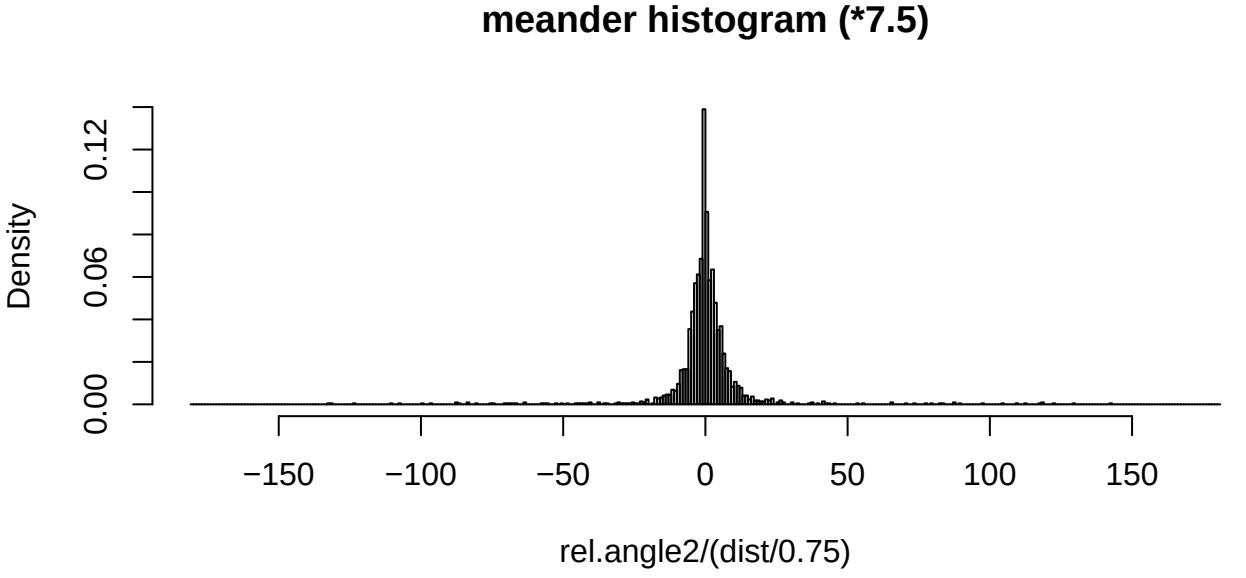

speed average per sec: 175_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

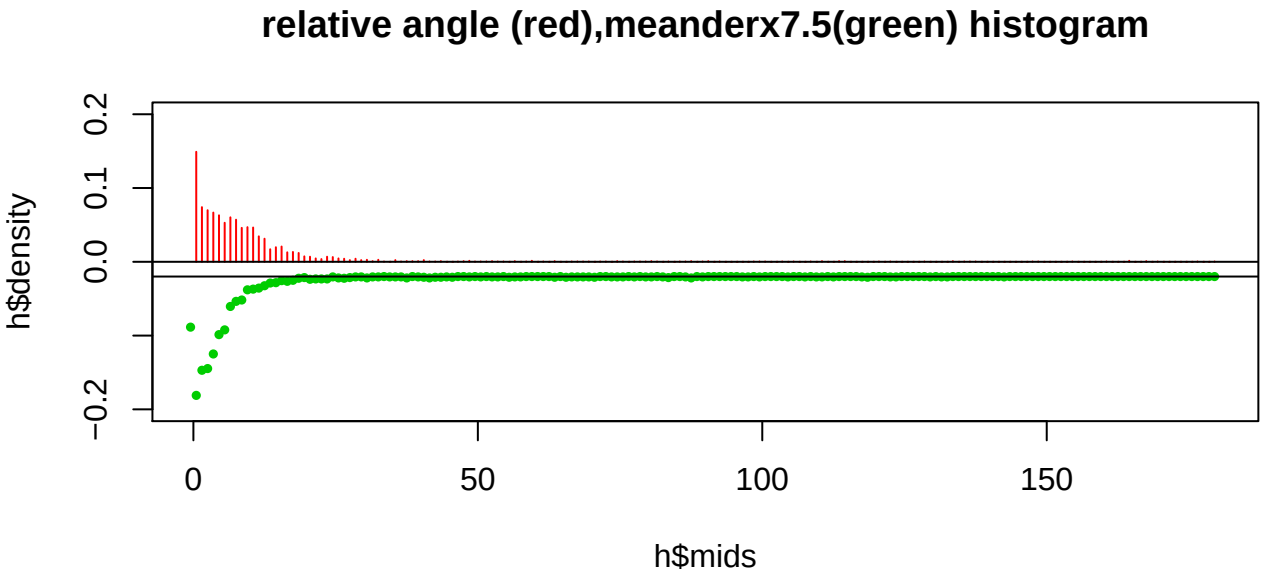

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

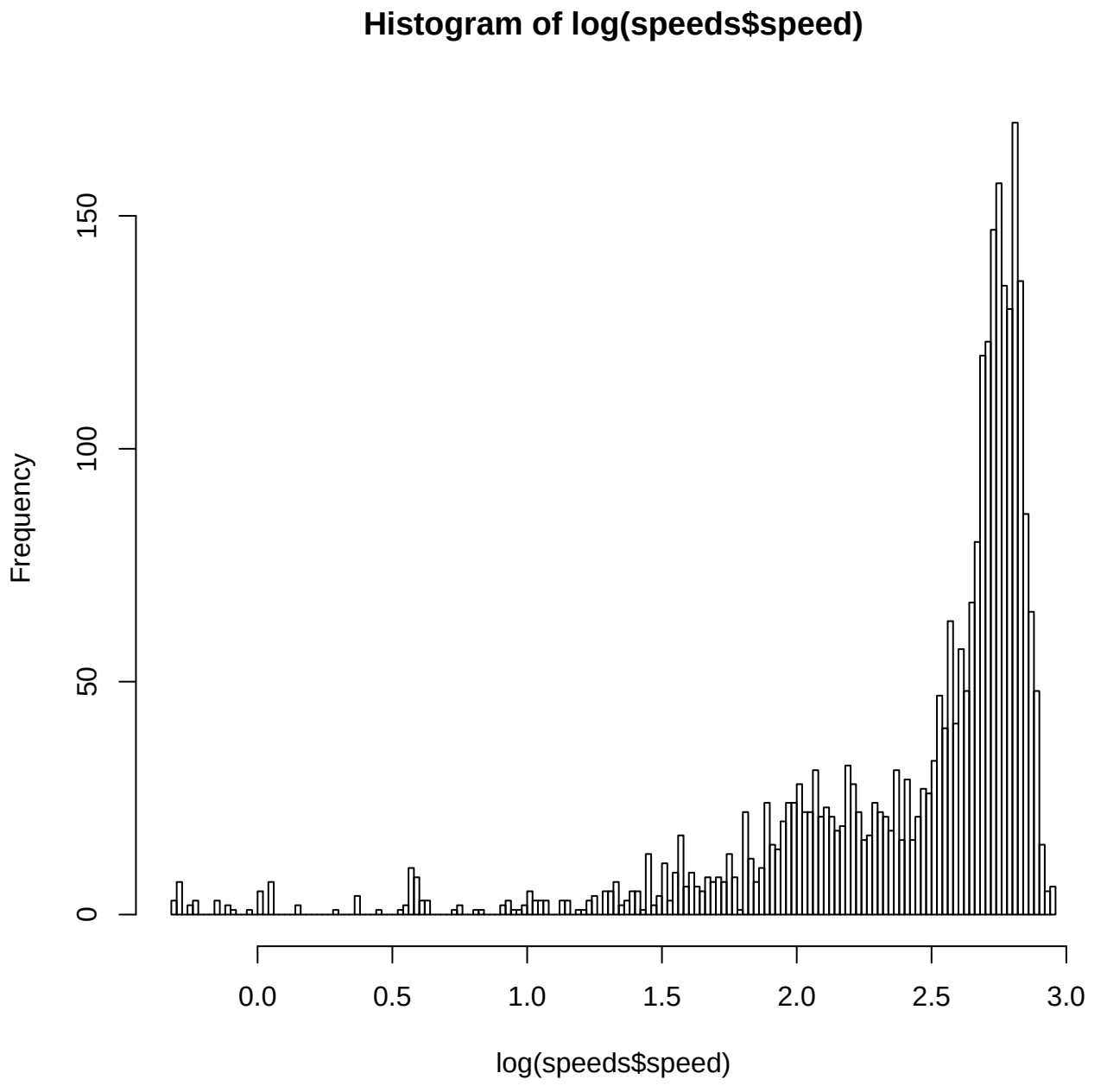

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

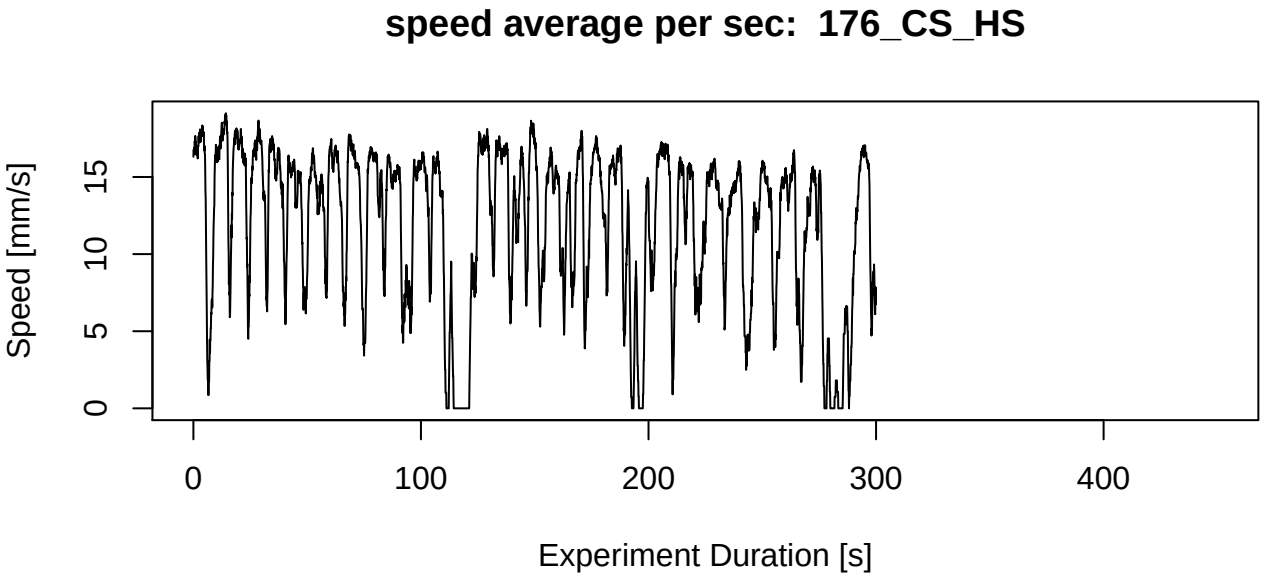

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

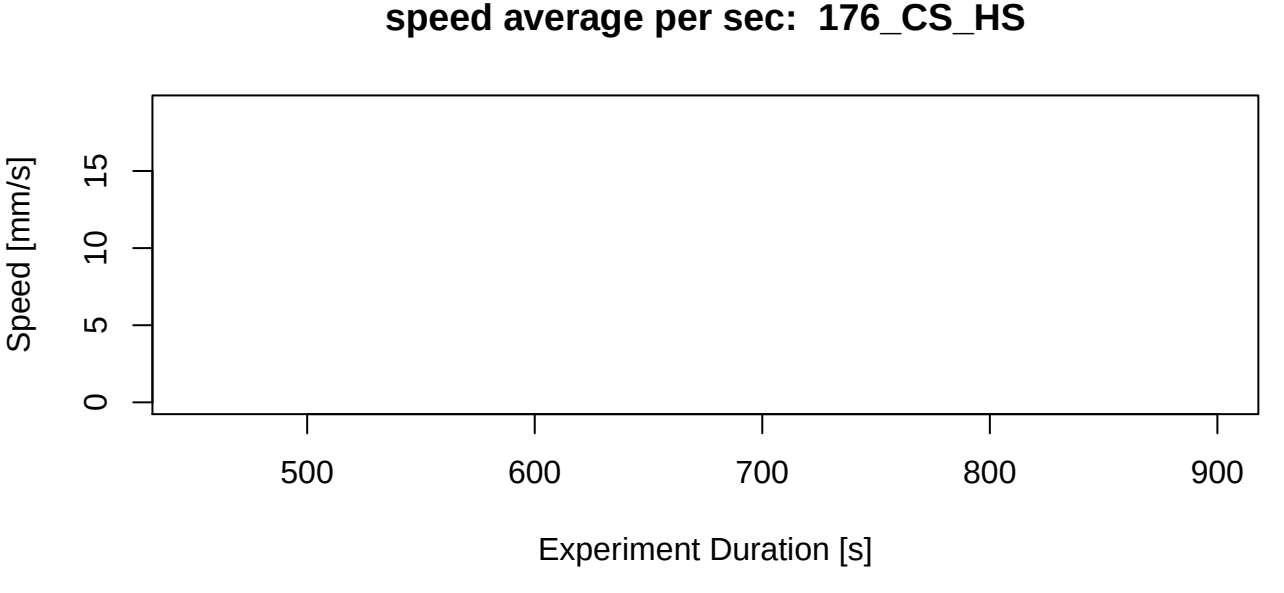

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

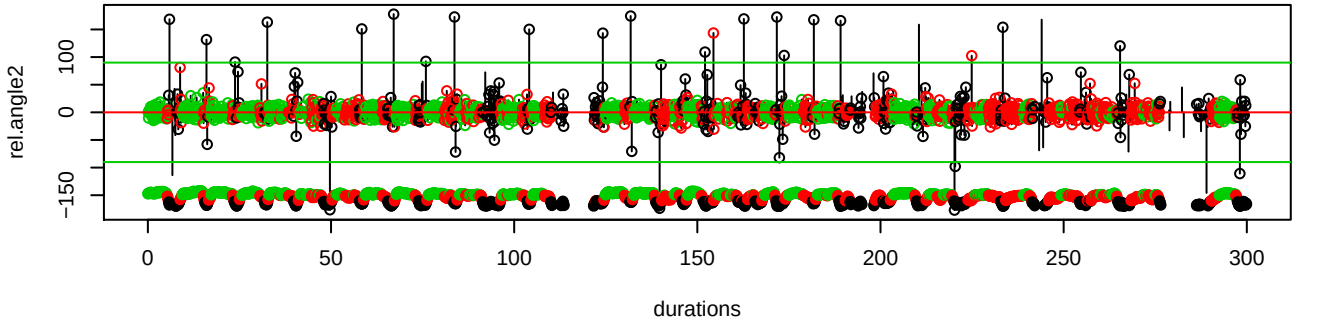

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

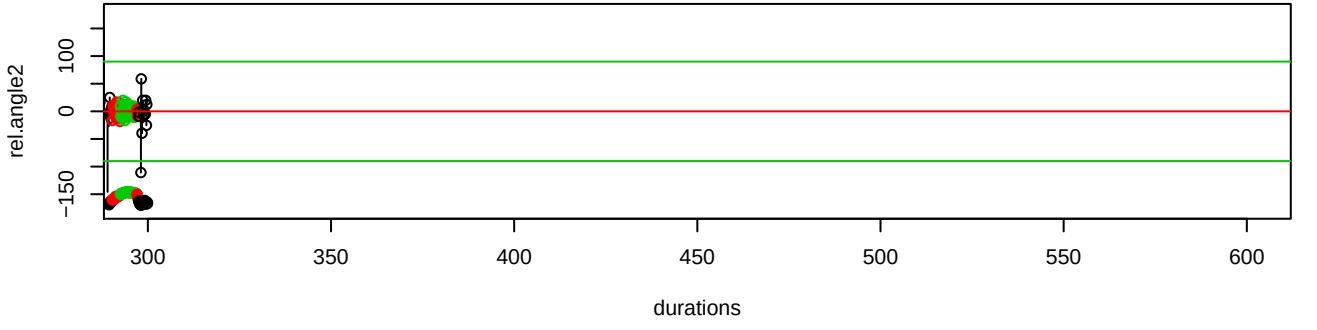

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

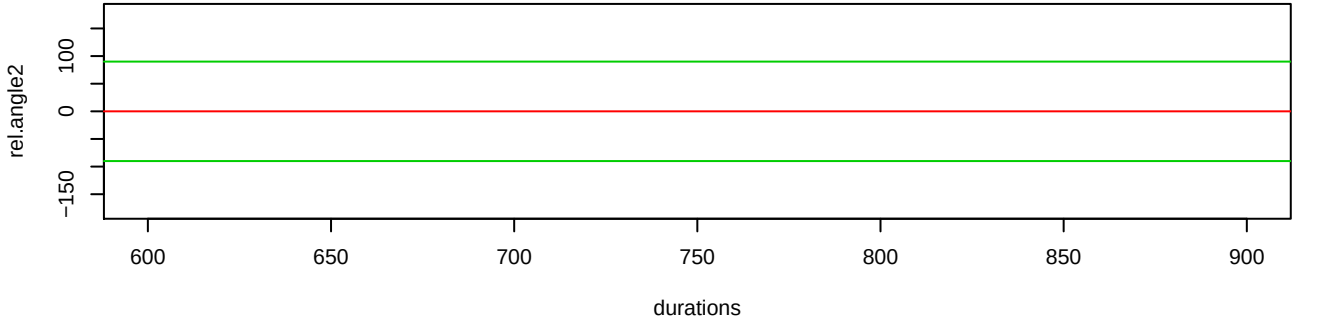

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

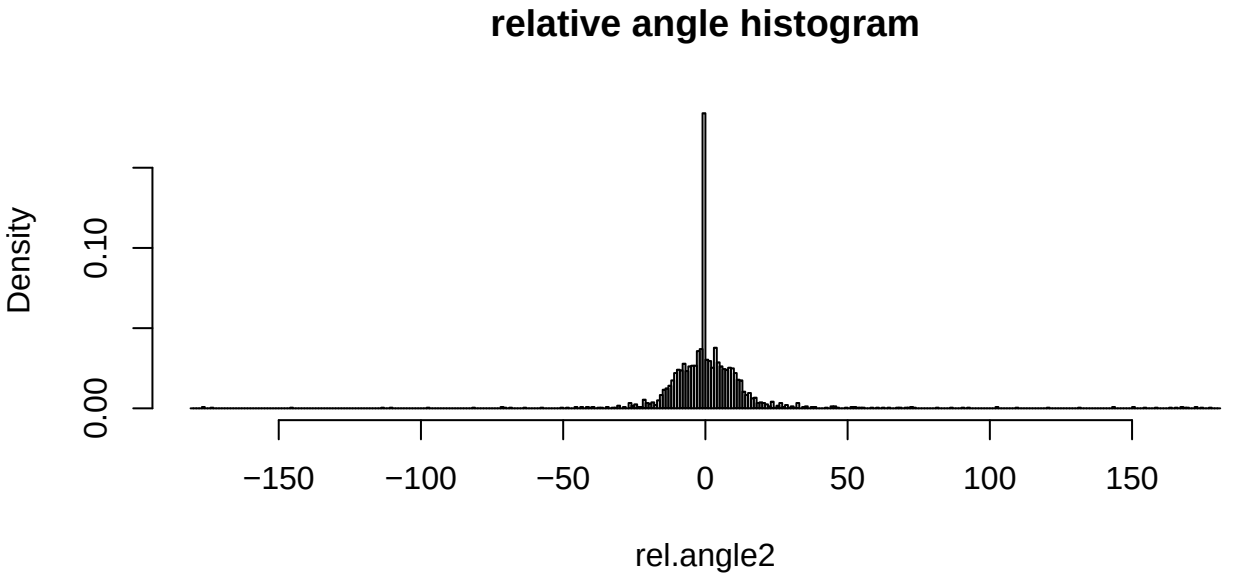

speed average per sec: 176_CS_HS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

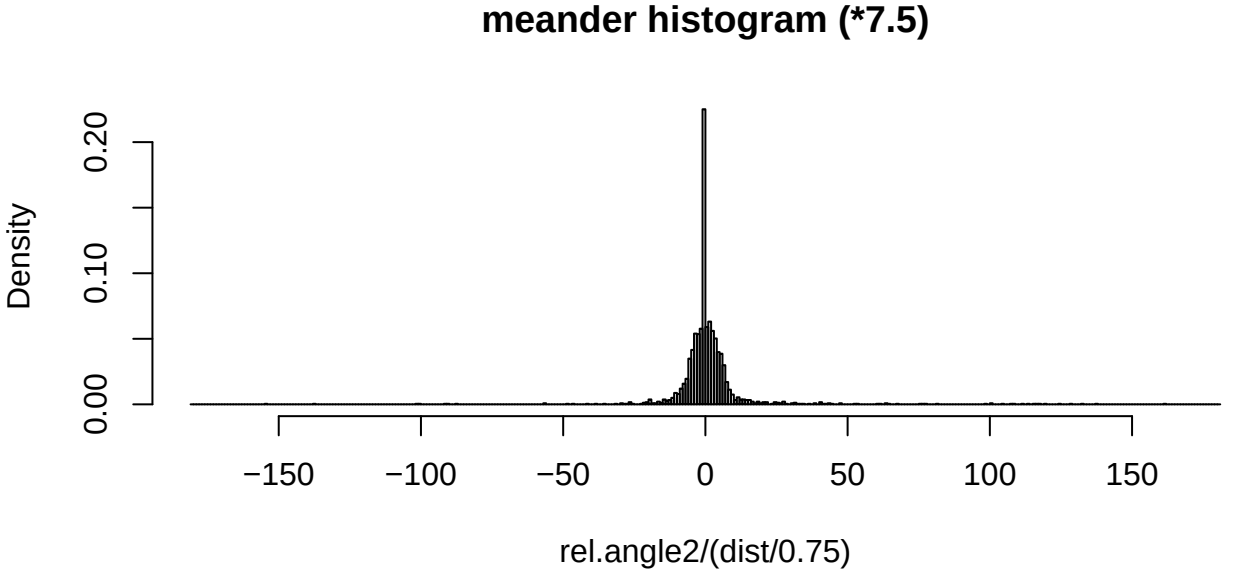

speed average per sec: 176_CS_HS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

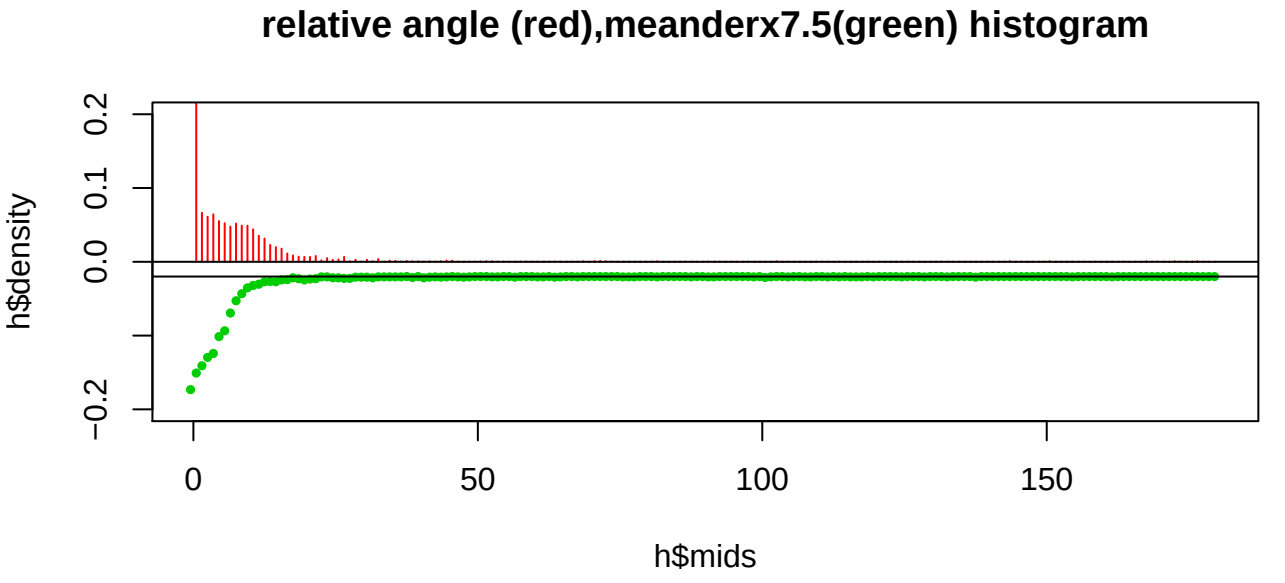

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

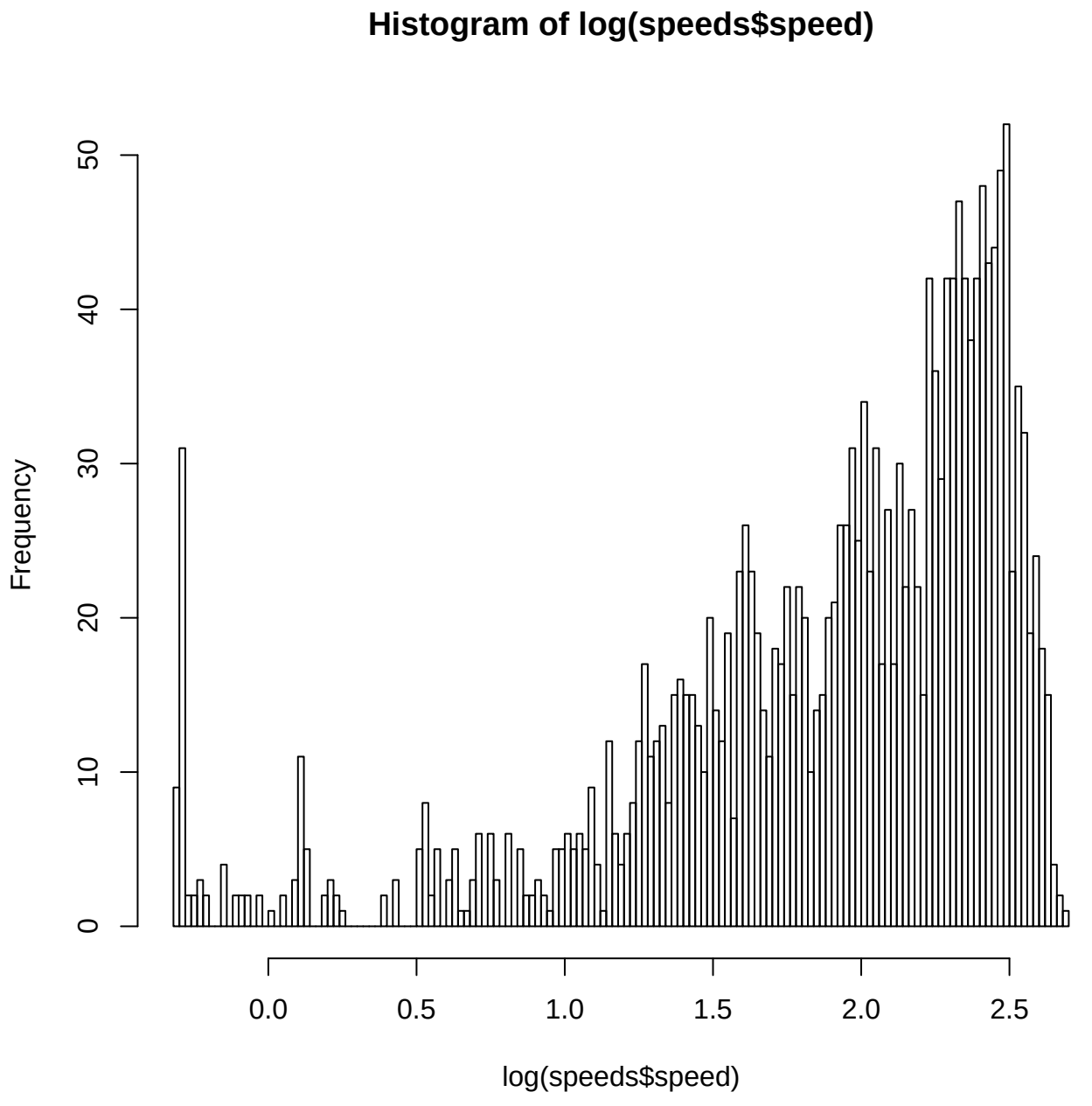

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

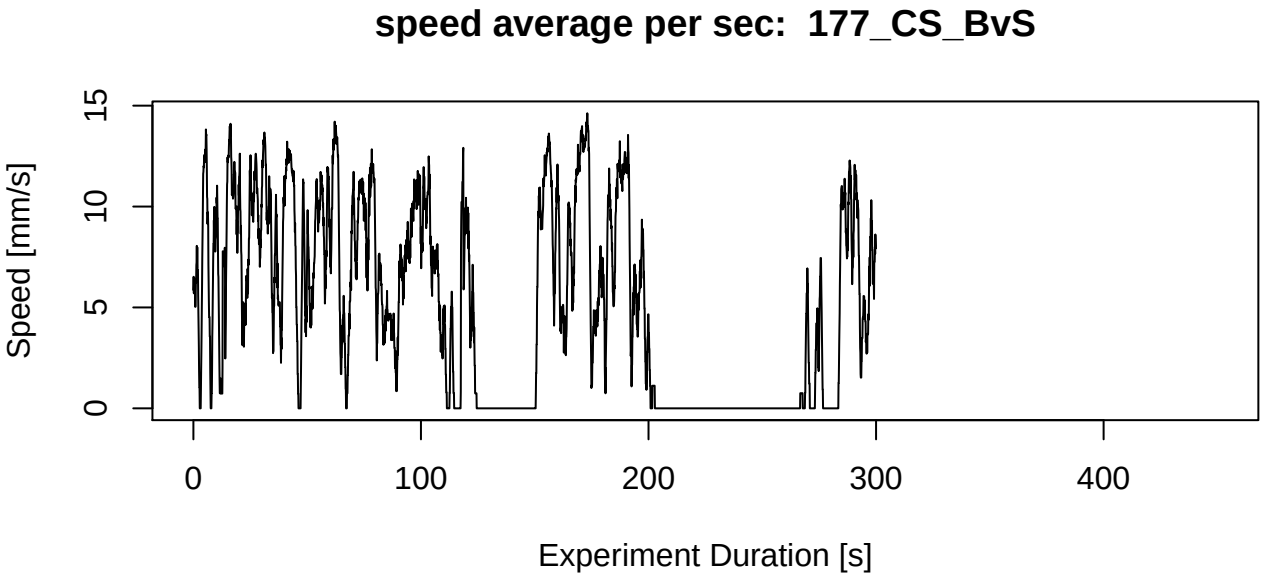

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

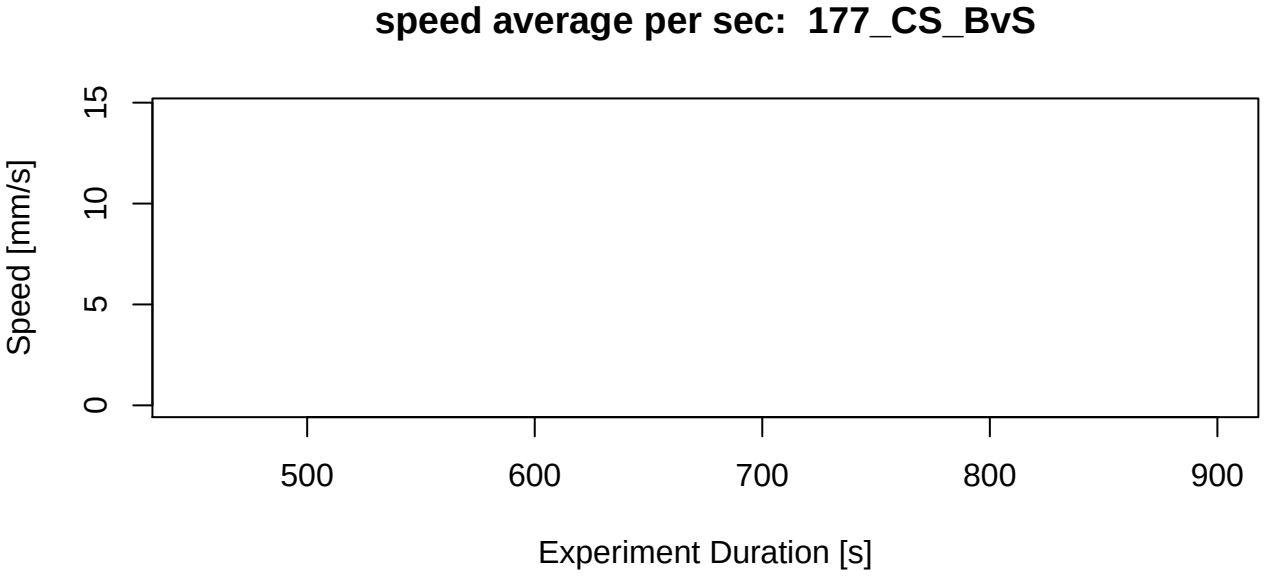

relative angle histogram
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2

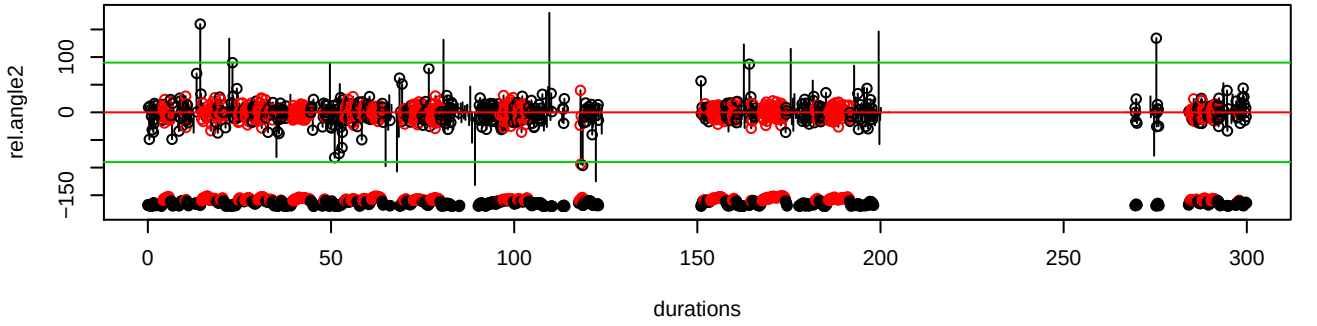

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

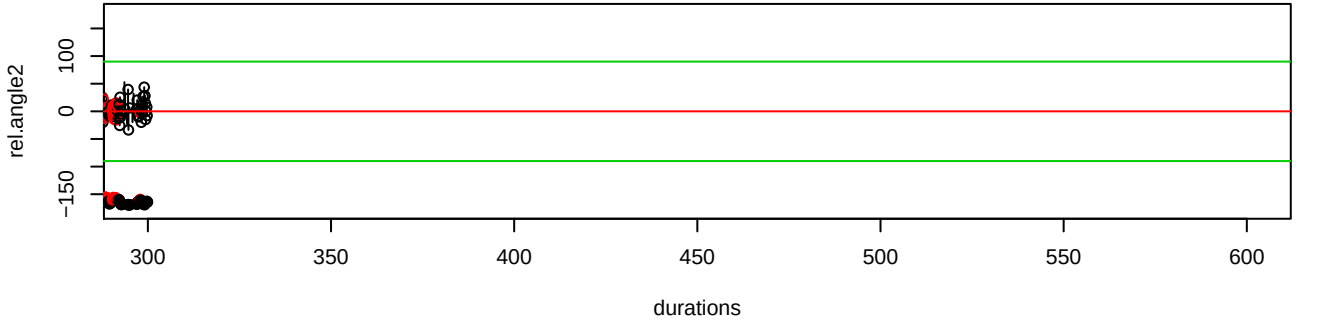

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

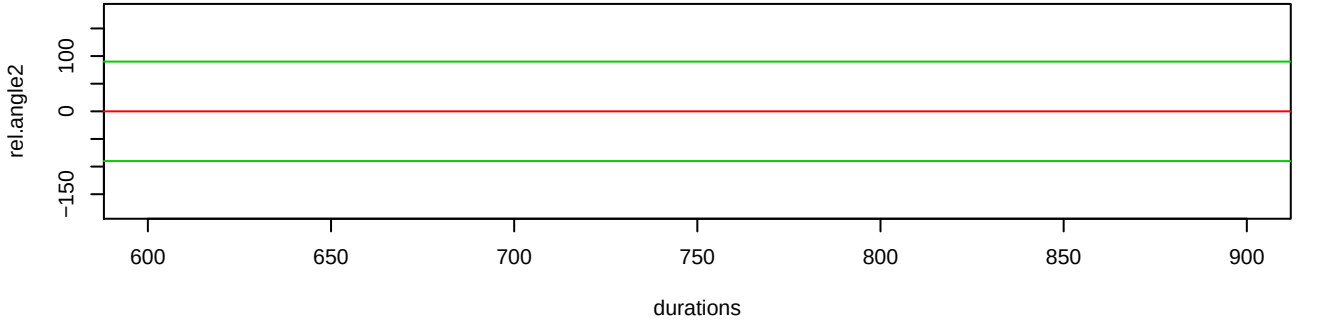

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

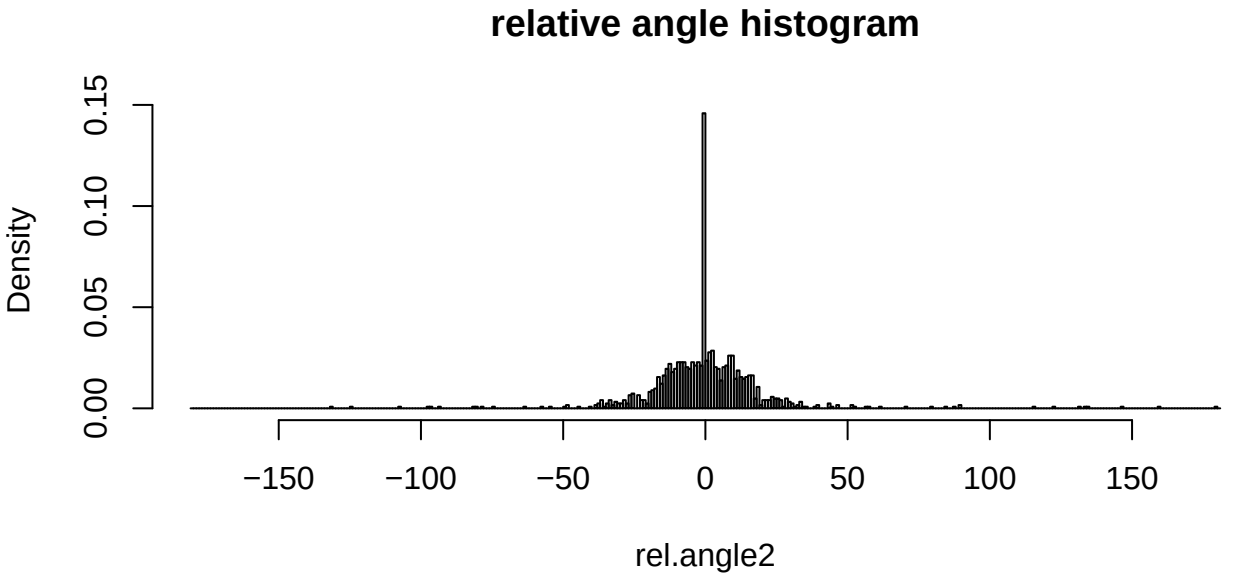

speed average per sec: 177_CS_BvS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

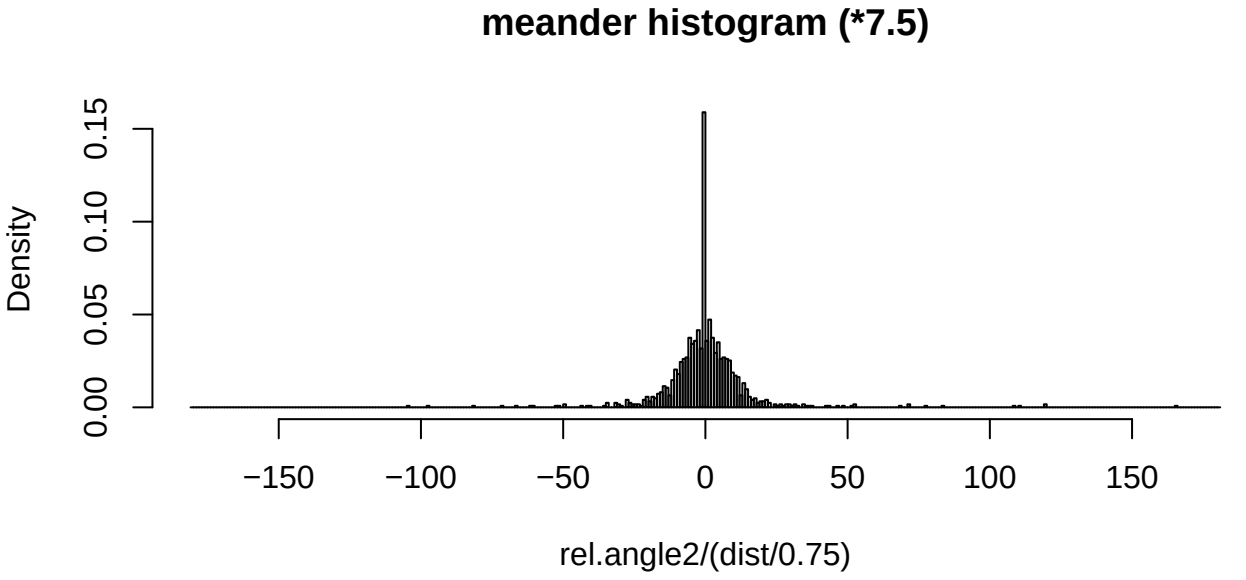

speed average per sec: 177_CS_BvS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

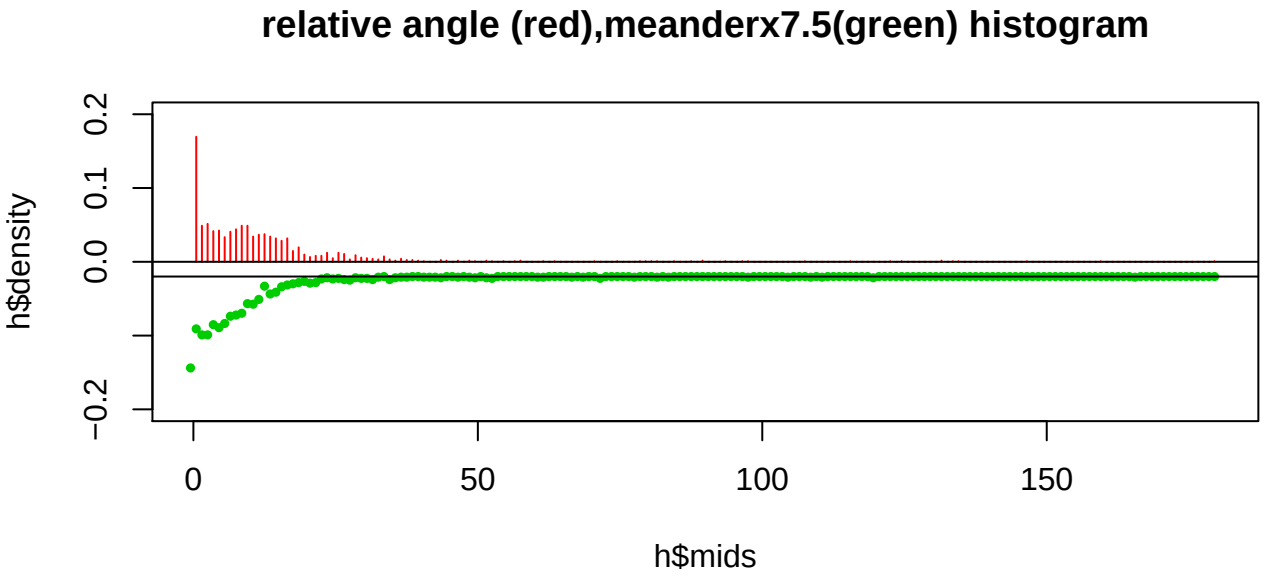

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

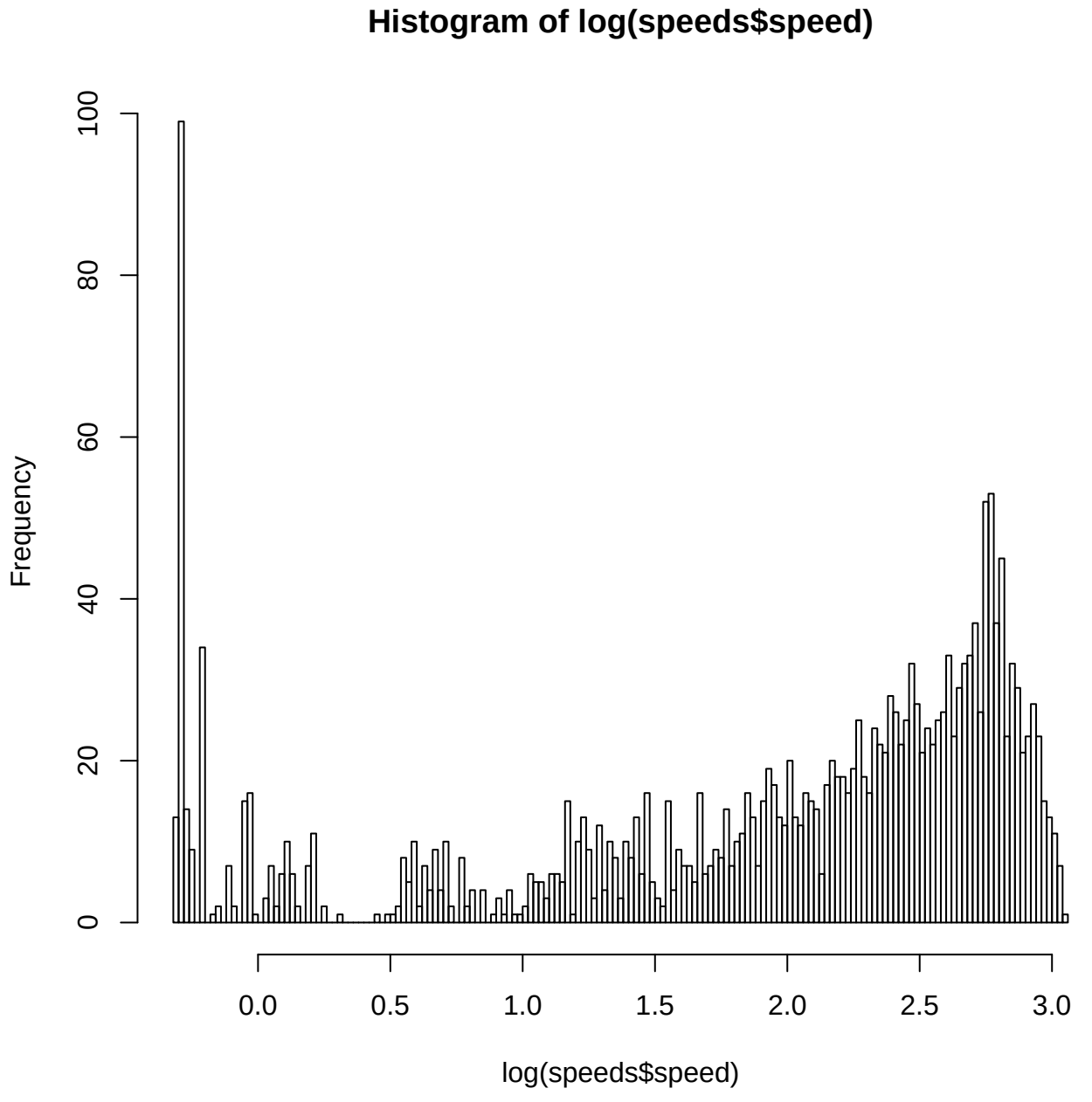

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

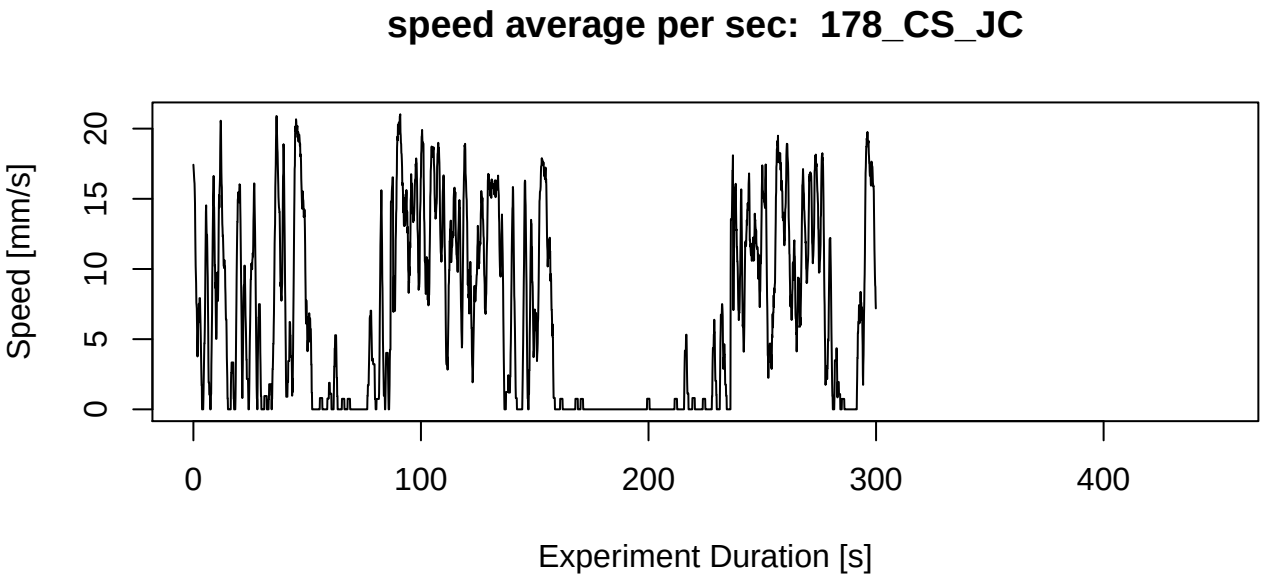

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

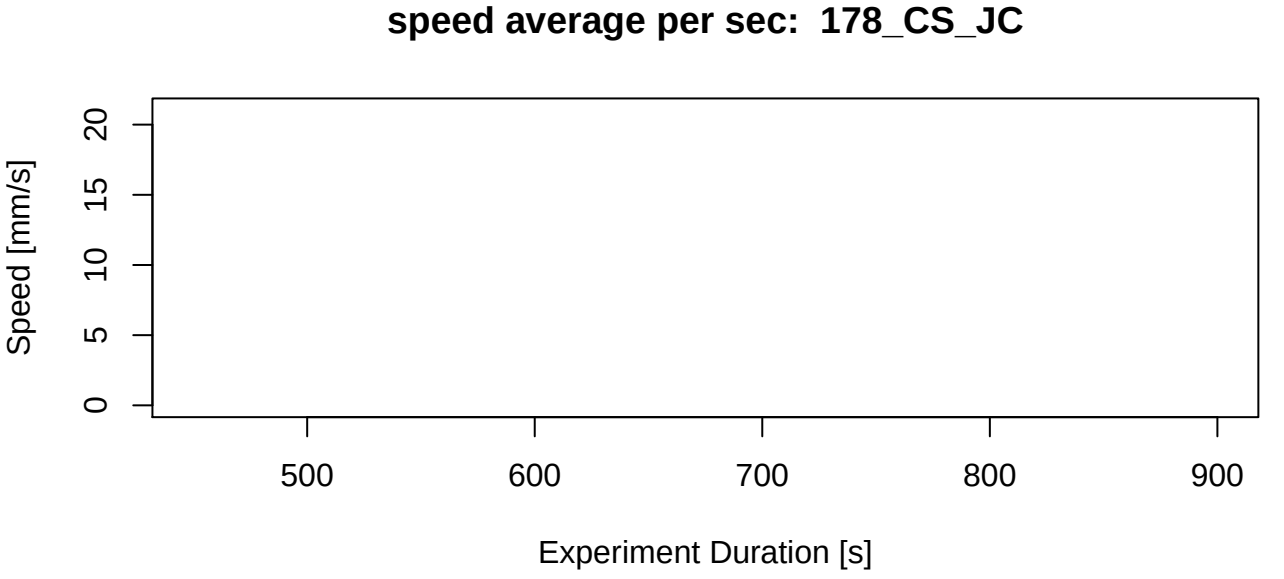

relative angle histogram
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2

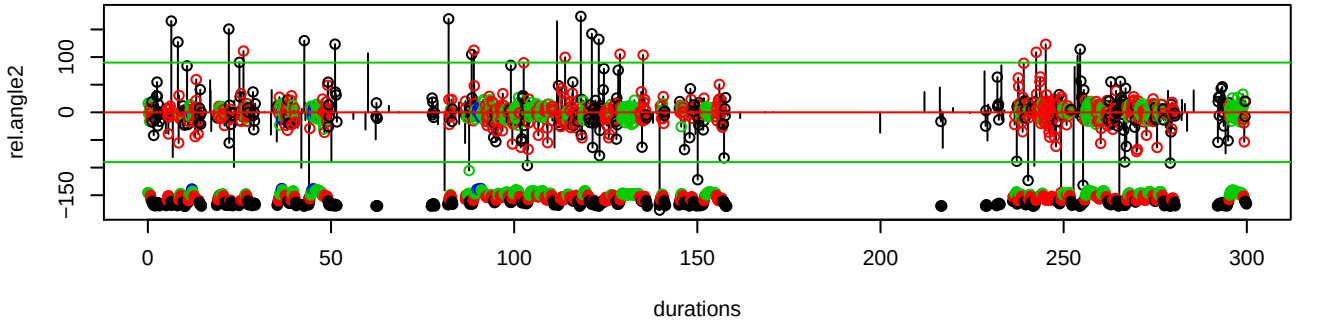

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

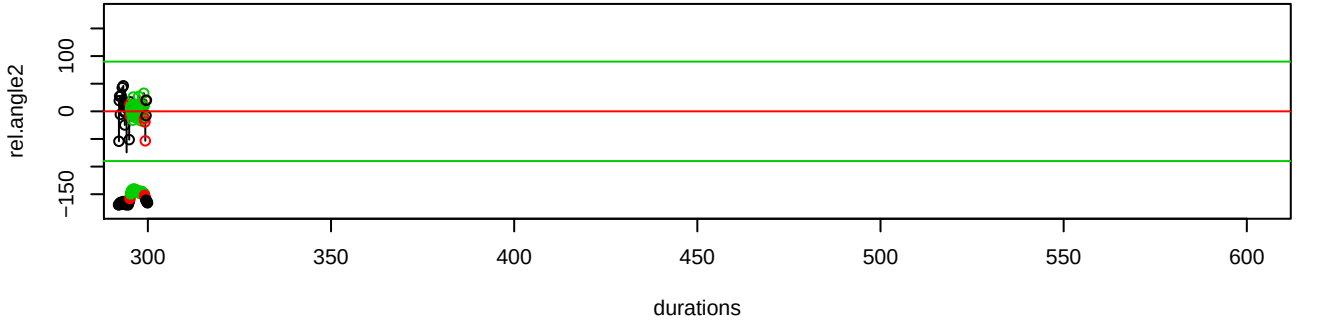

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

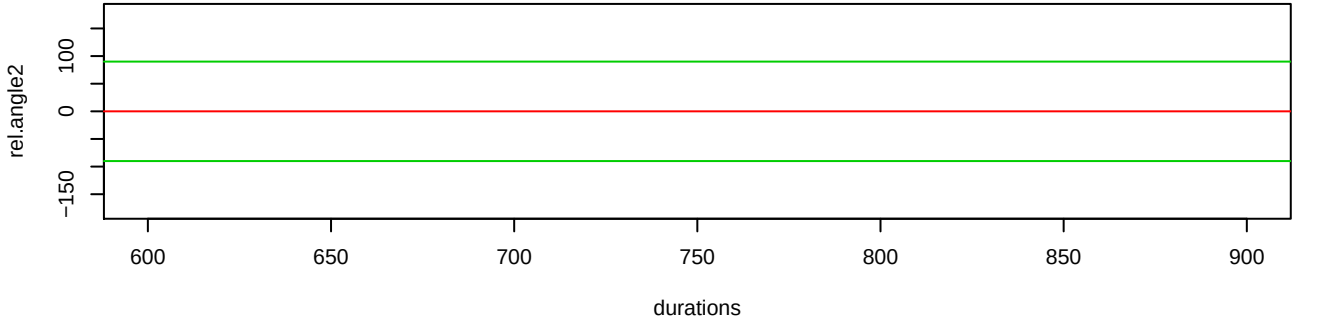

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

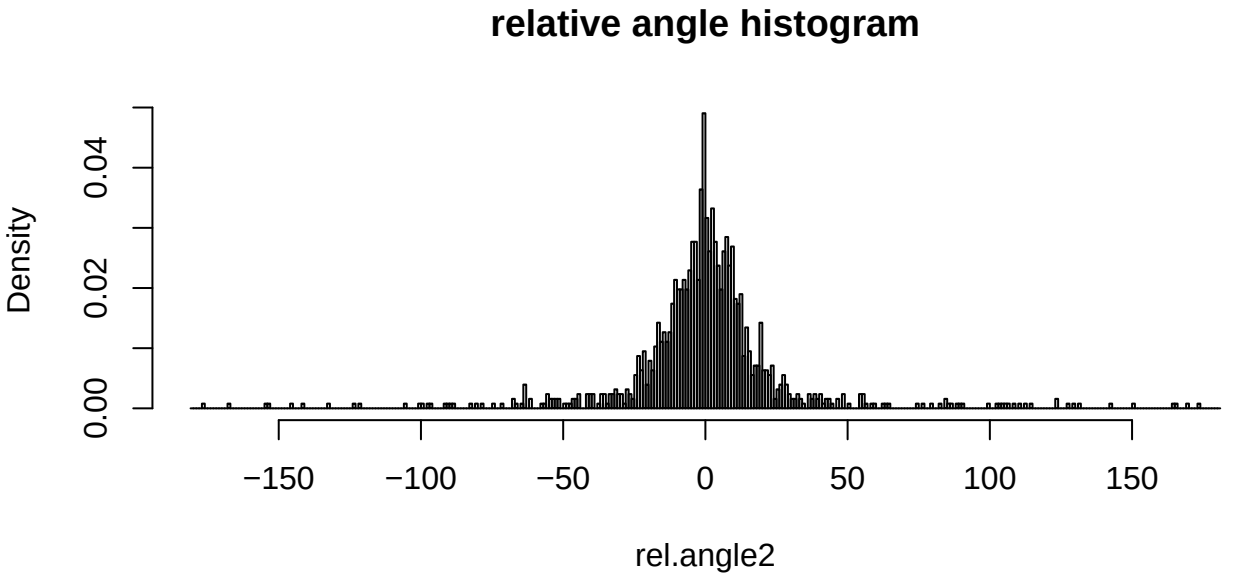

speed average per sec: 178_CS_JC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

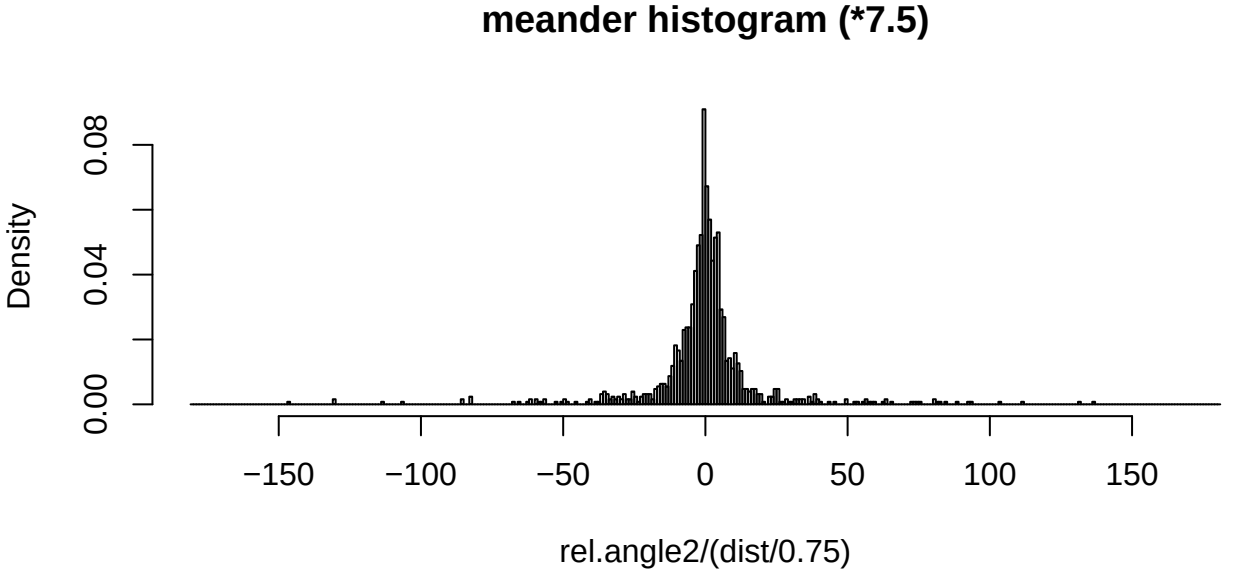

speed average per sec: 178_CS_JC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

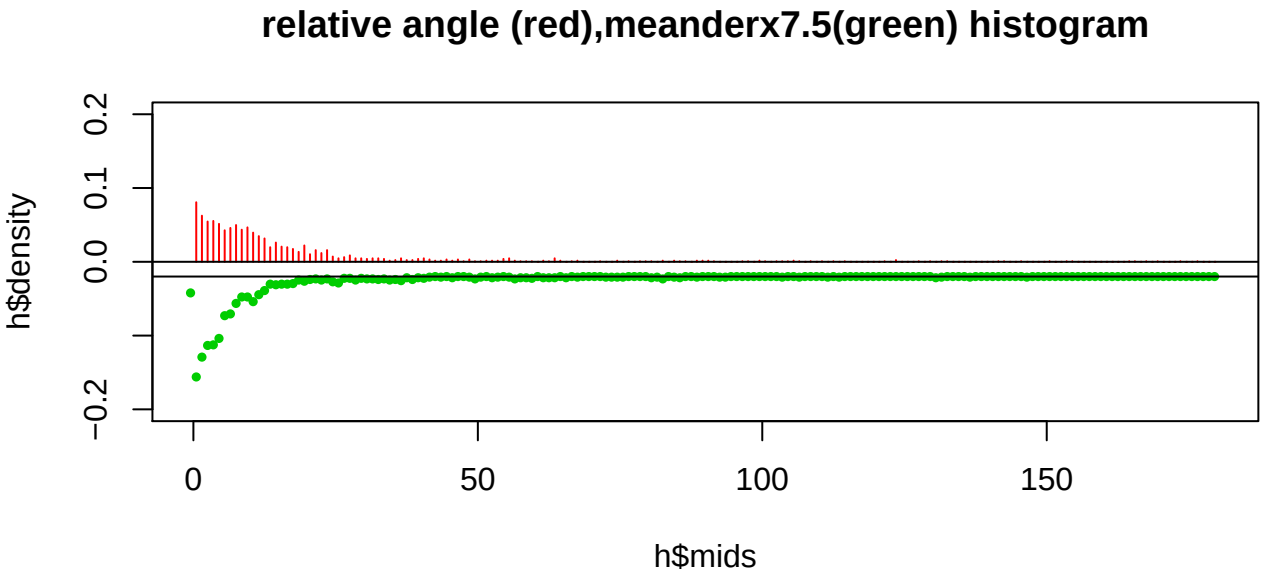

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

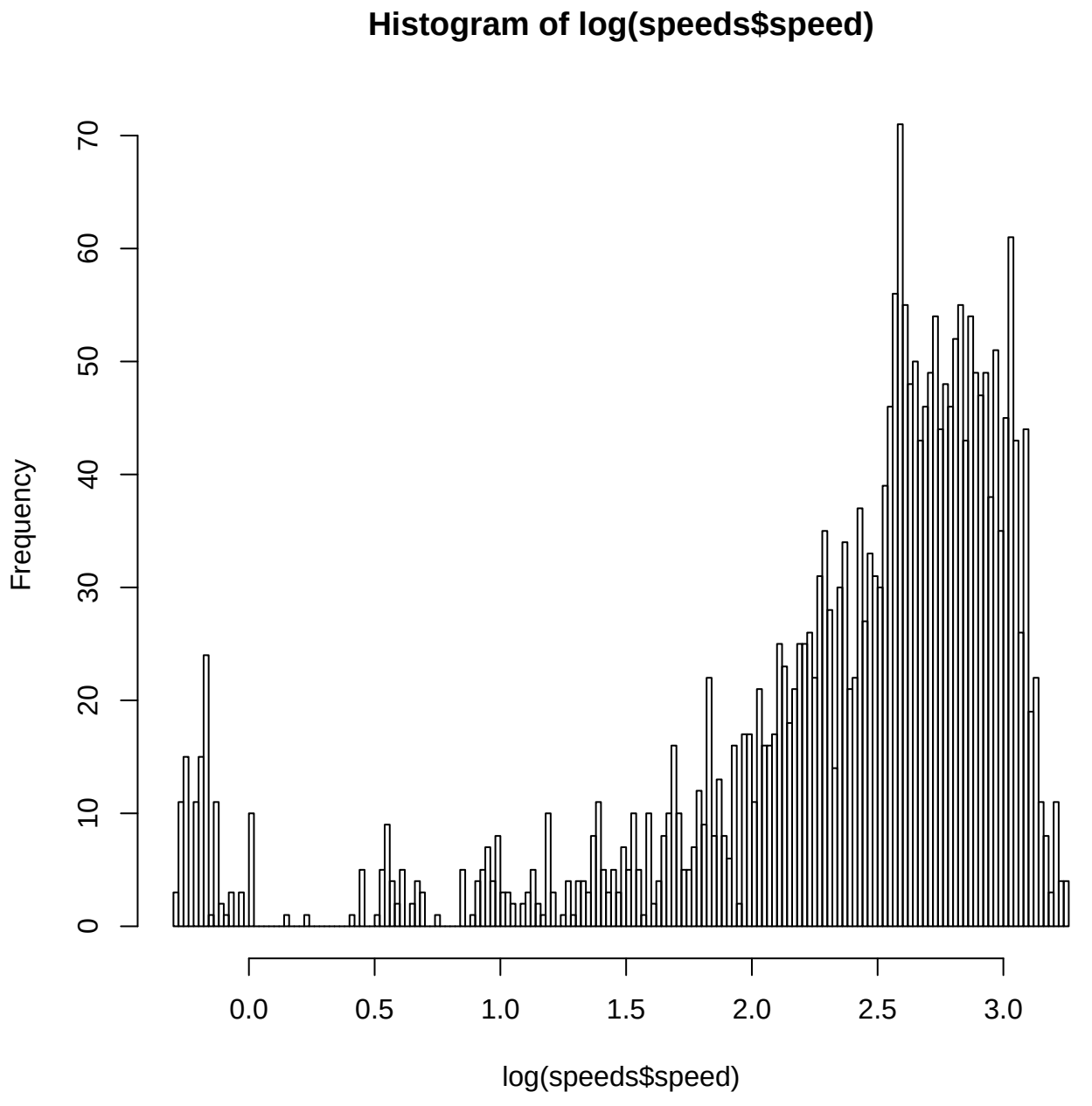

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

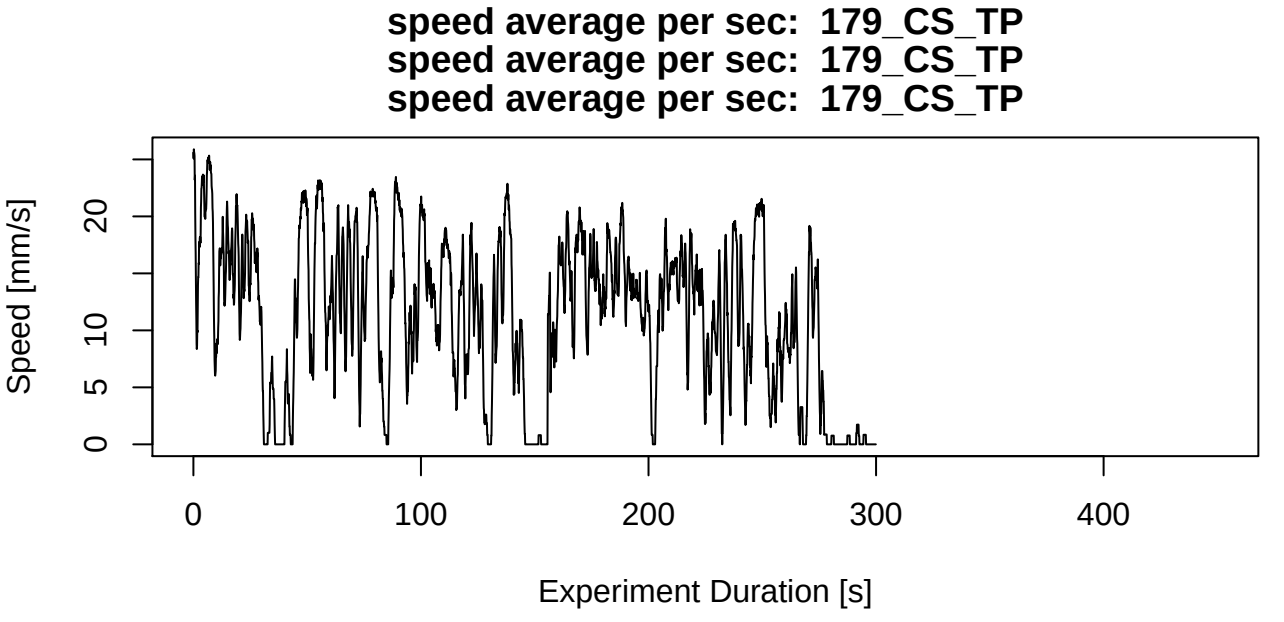

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

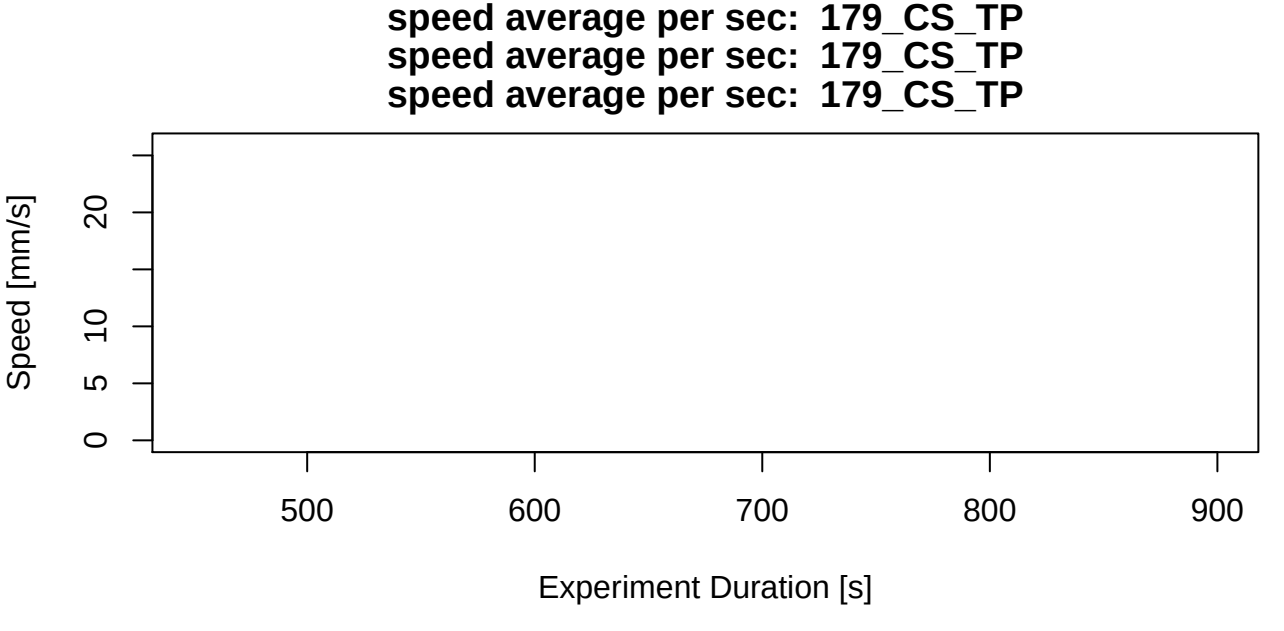

relative angle histogram
Density
0.00
0.02
0.04
−150
−100
−50
0
50
100
150
rel.angle2

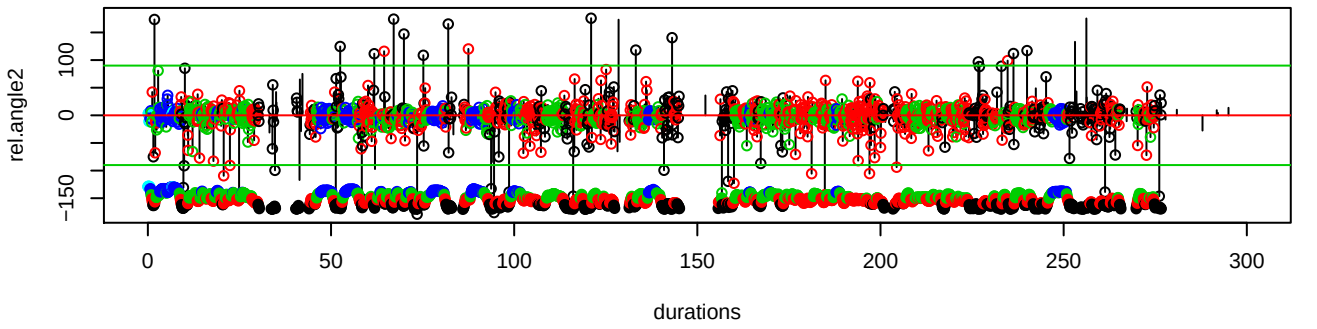

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

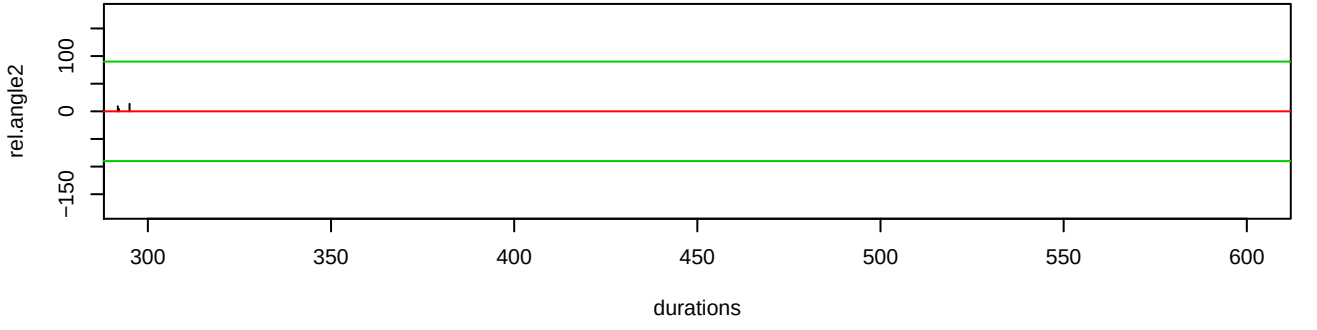

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

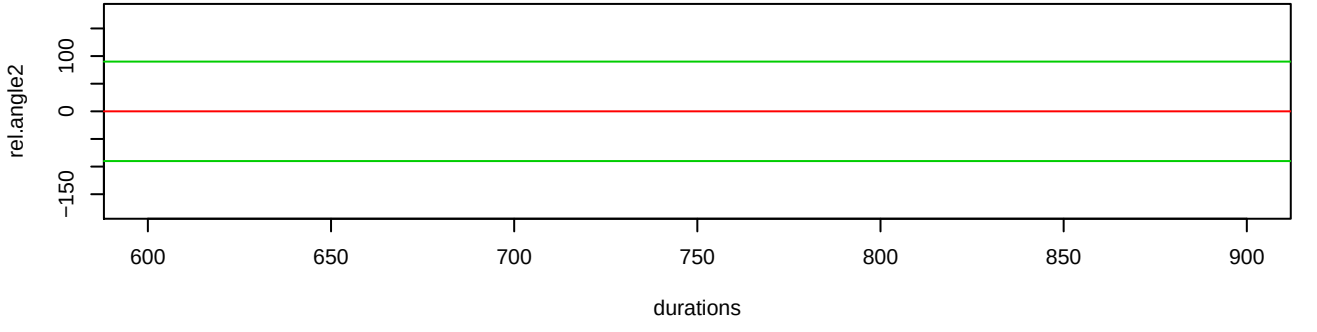

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

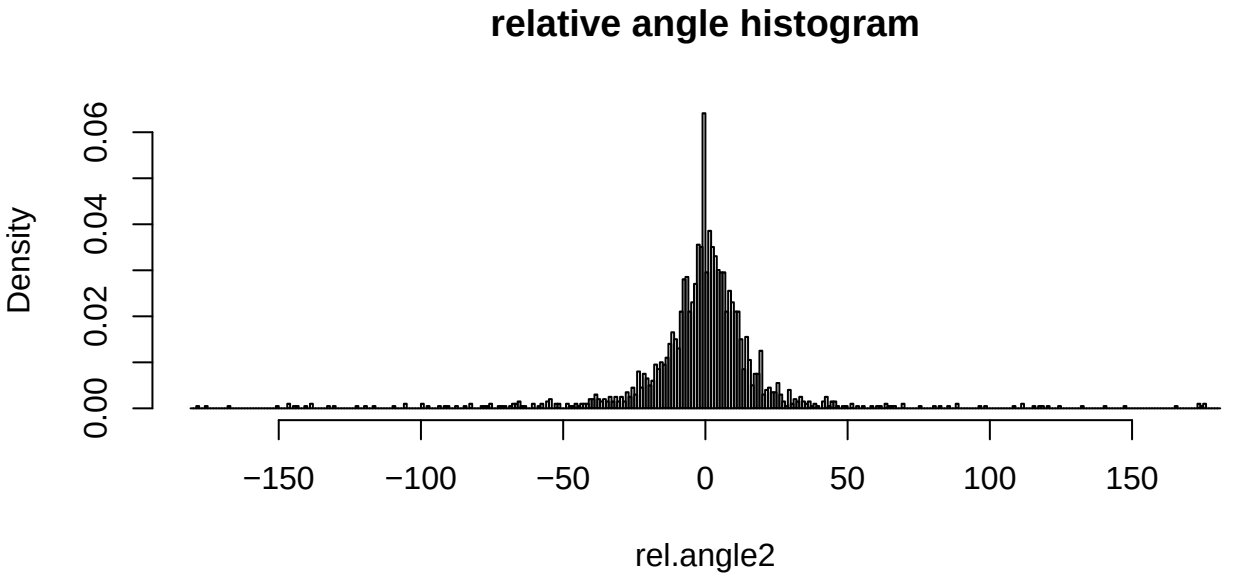

speed average per sec: 179_CS_TP
speed average per sec: 179_CS_TP
speed average per sec: 179_CS_TP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

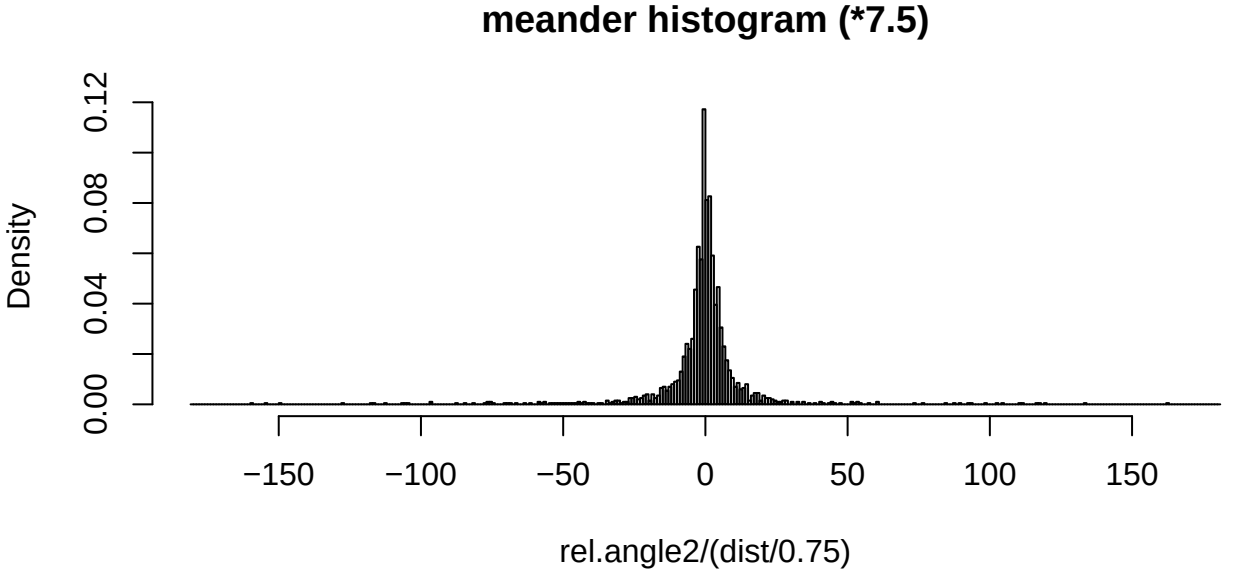

speed average per sec: 179_CS_TP
speed average per sec: 179_CS_TP
speed average per sec: 179_CS_TP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

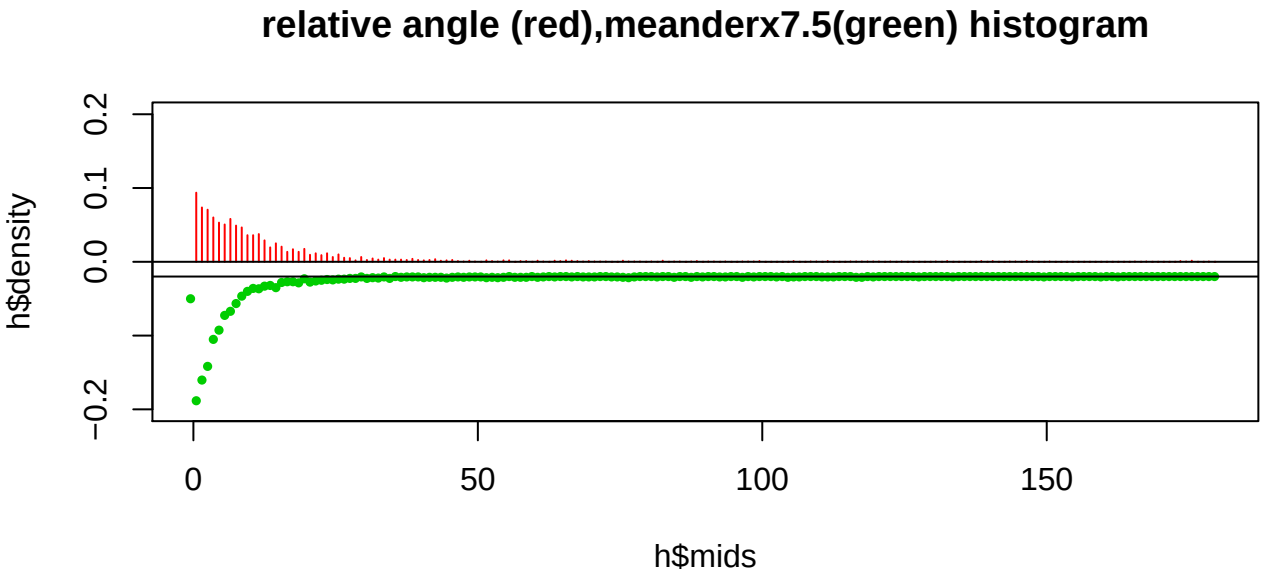

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

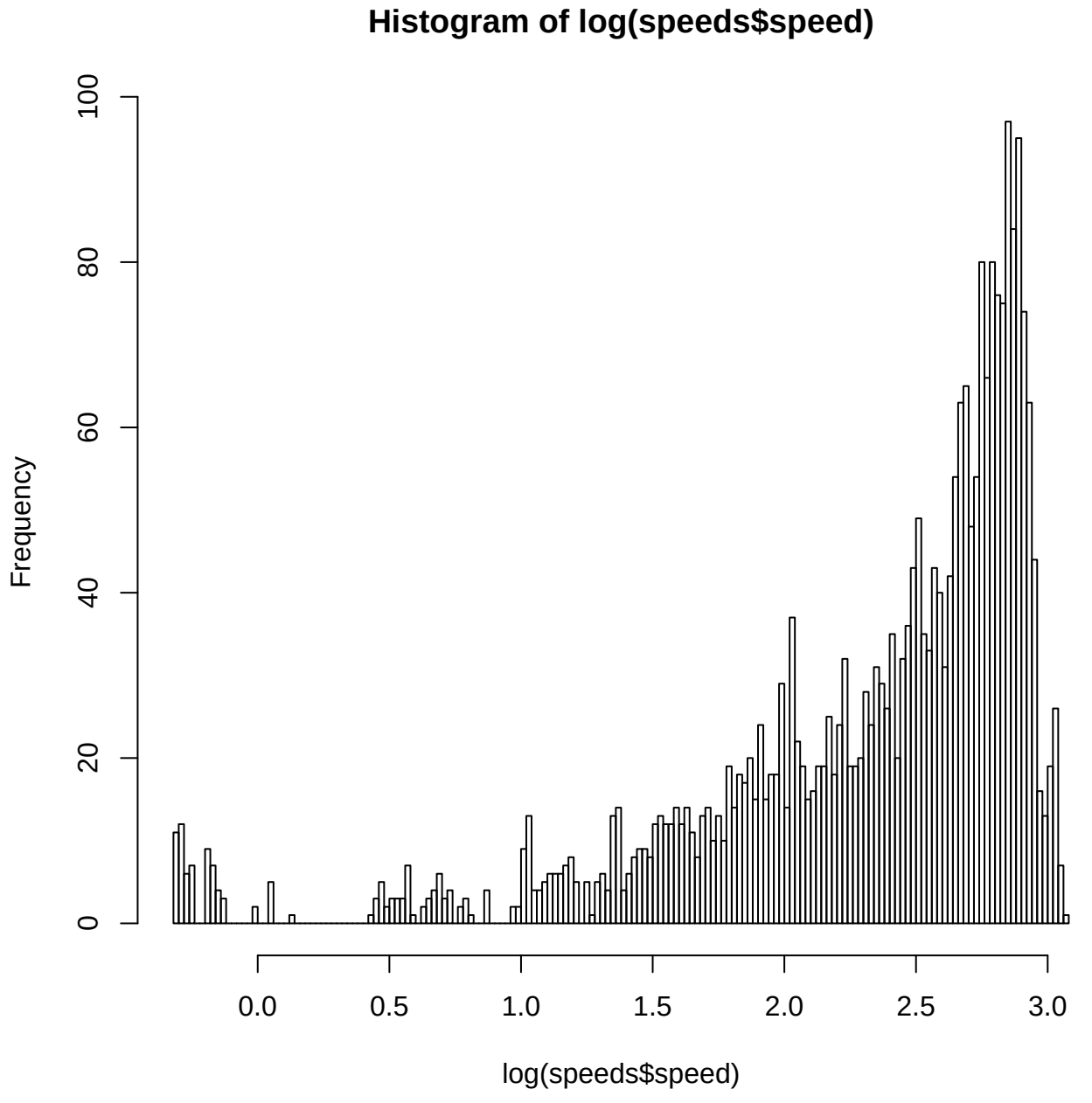

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

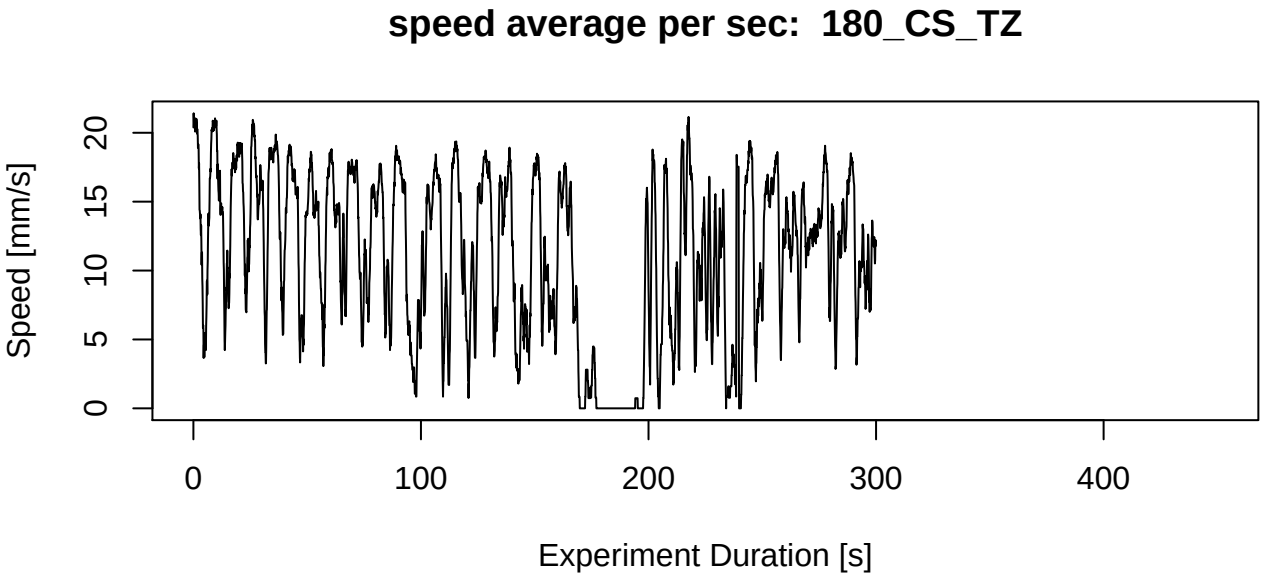

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

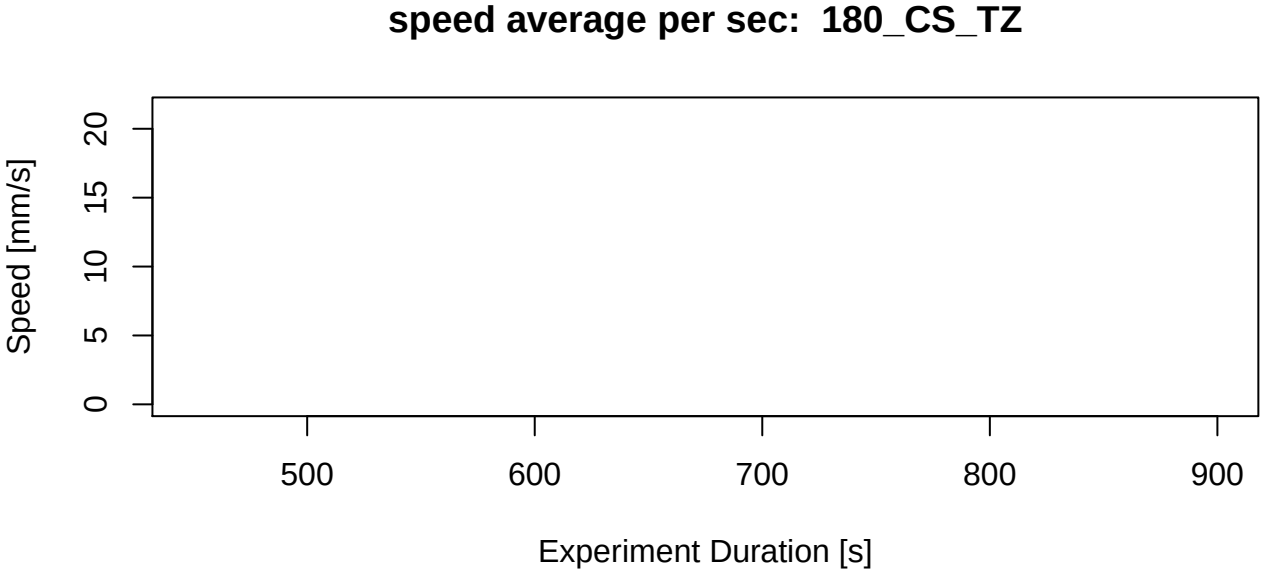

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

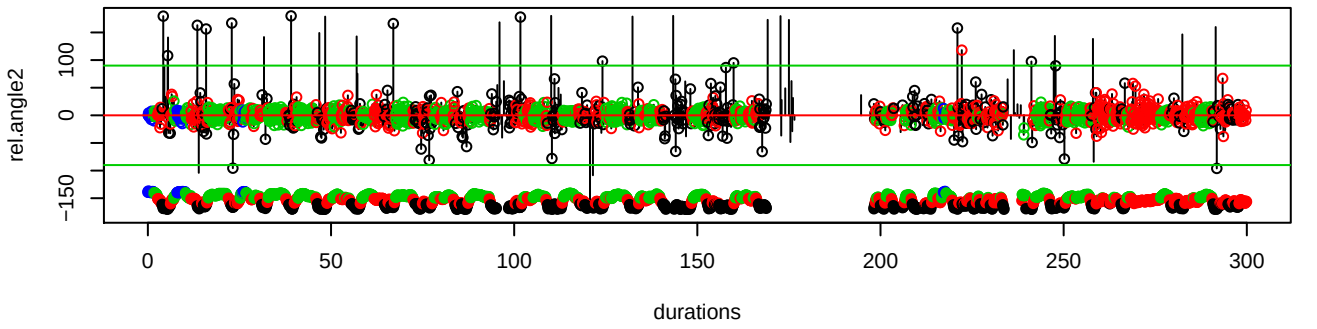

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

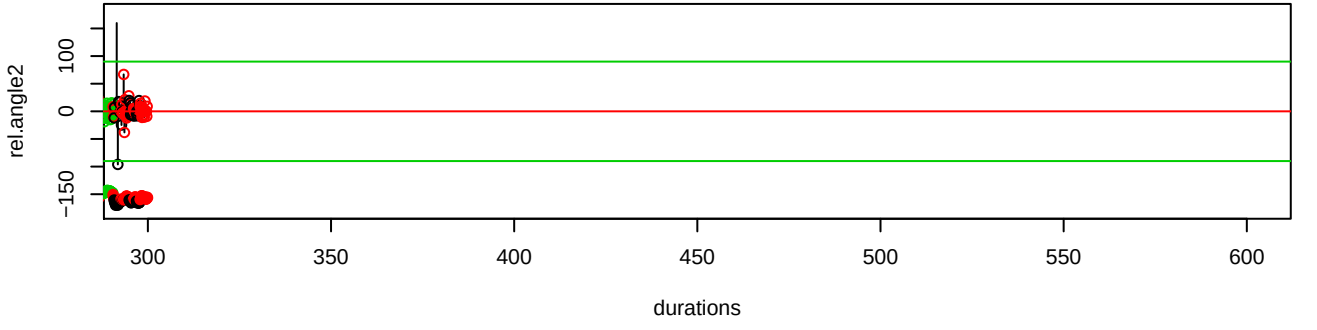

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

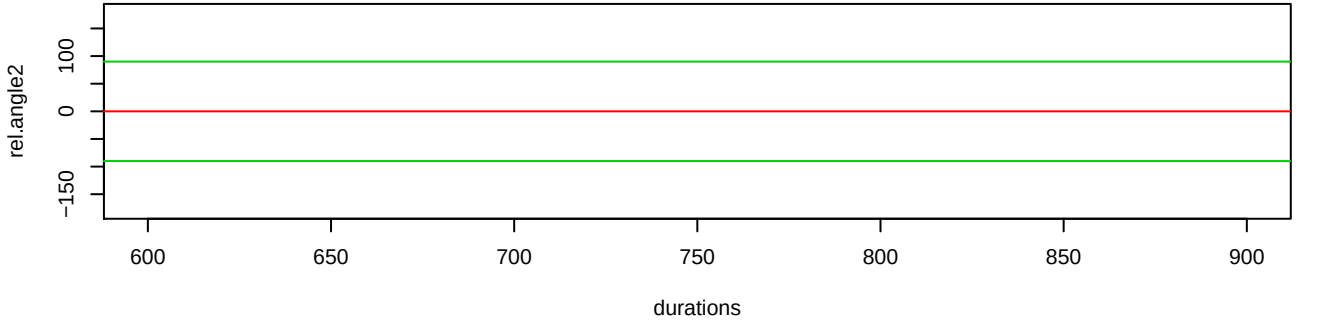

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

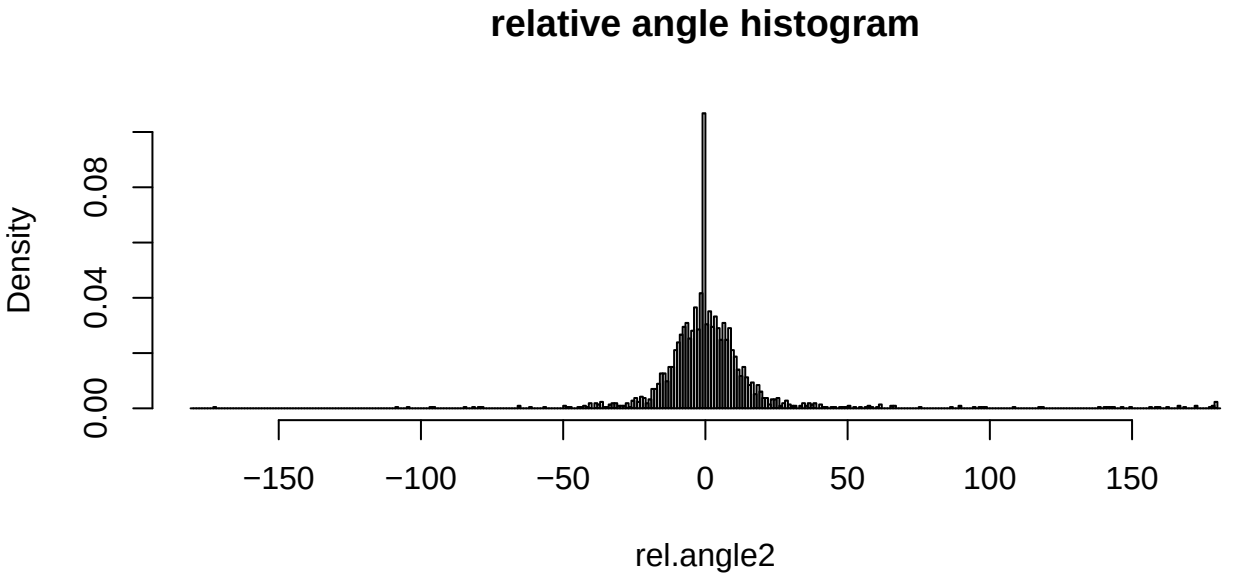

speed average per sec: 180_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

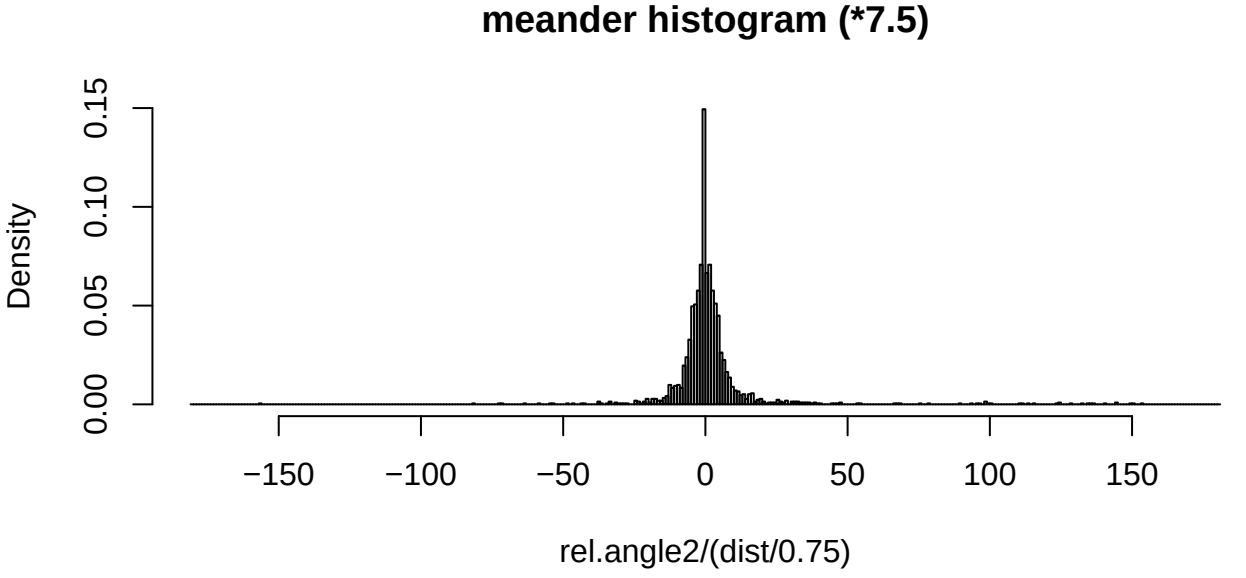

speed average per sec: 180_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

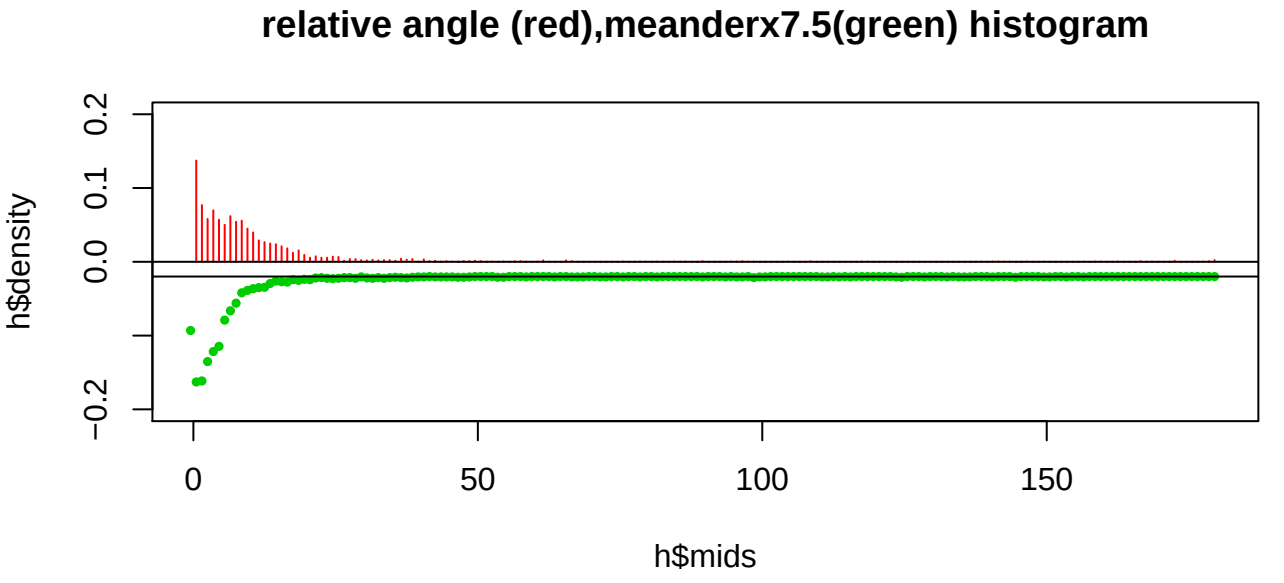

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

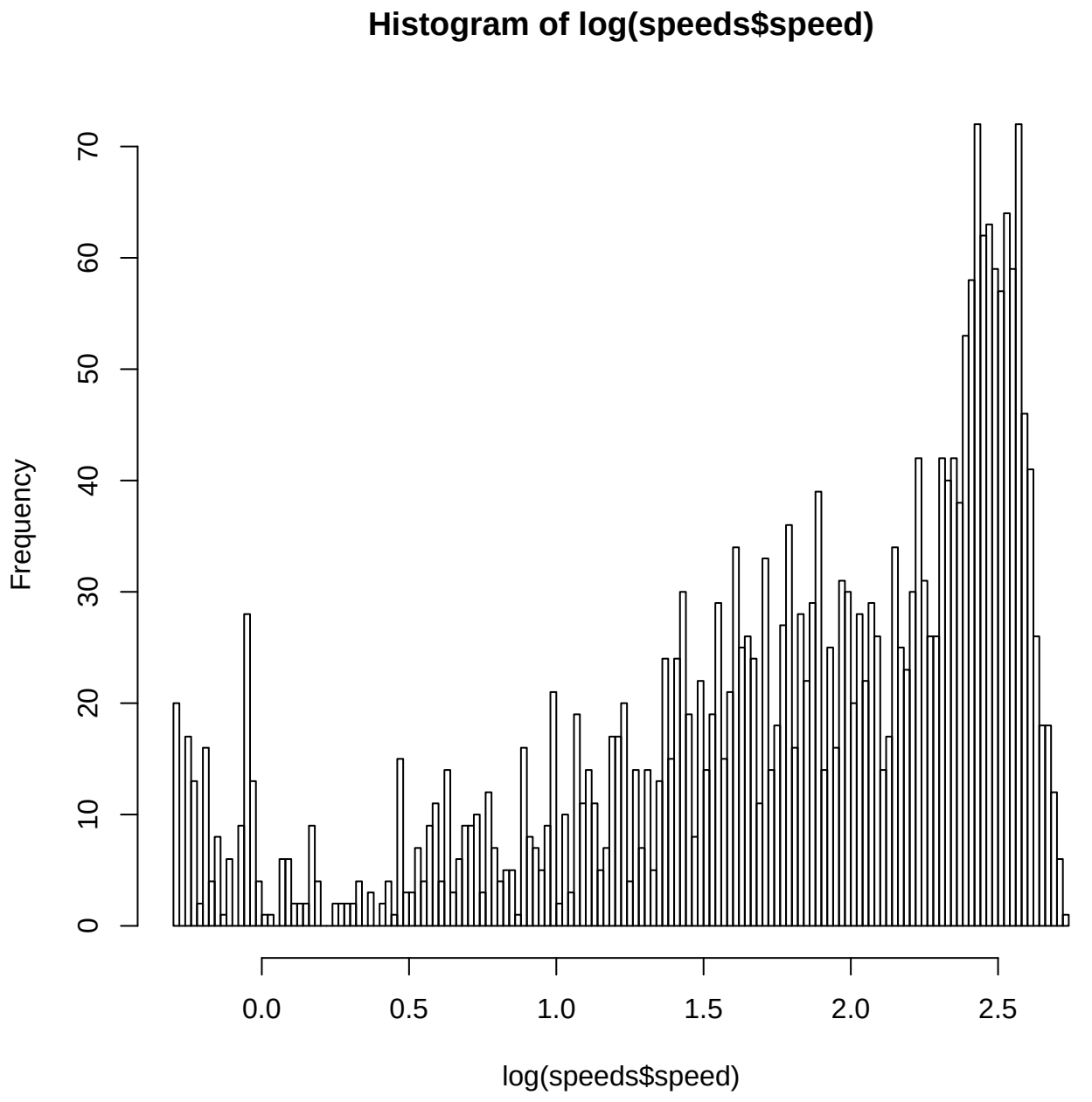

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

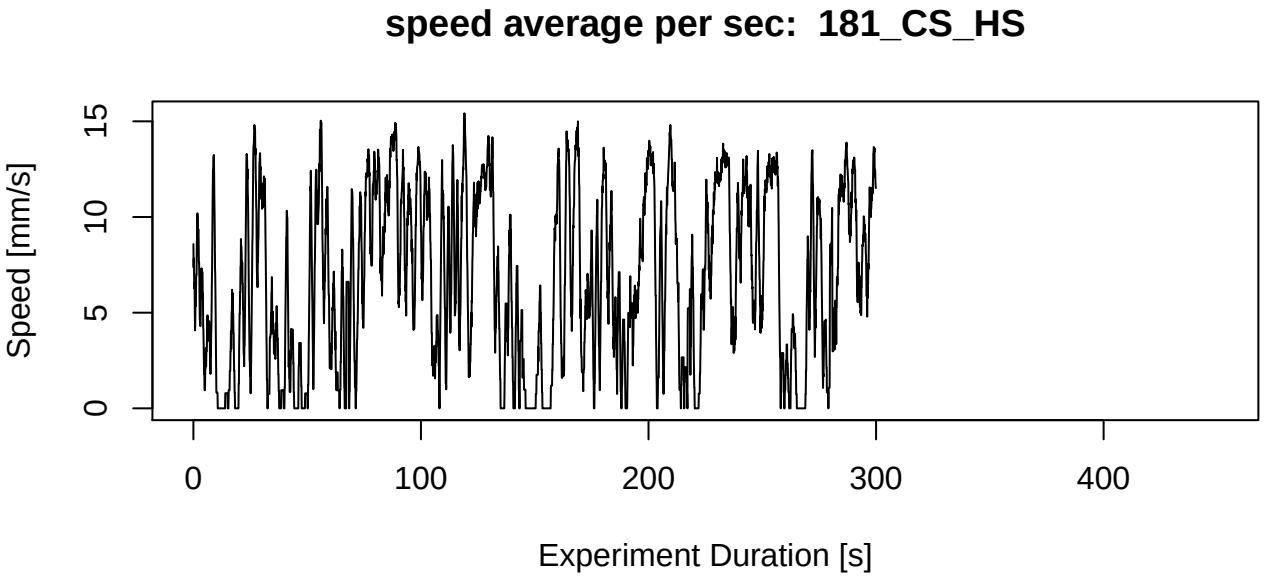

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

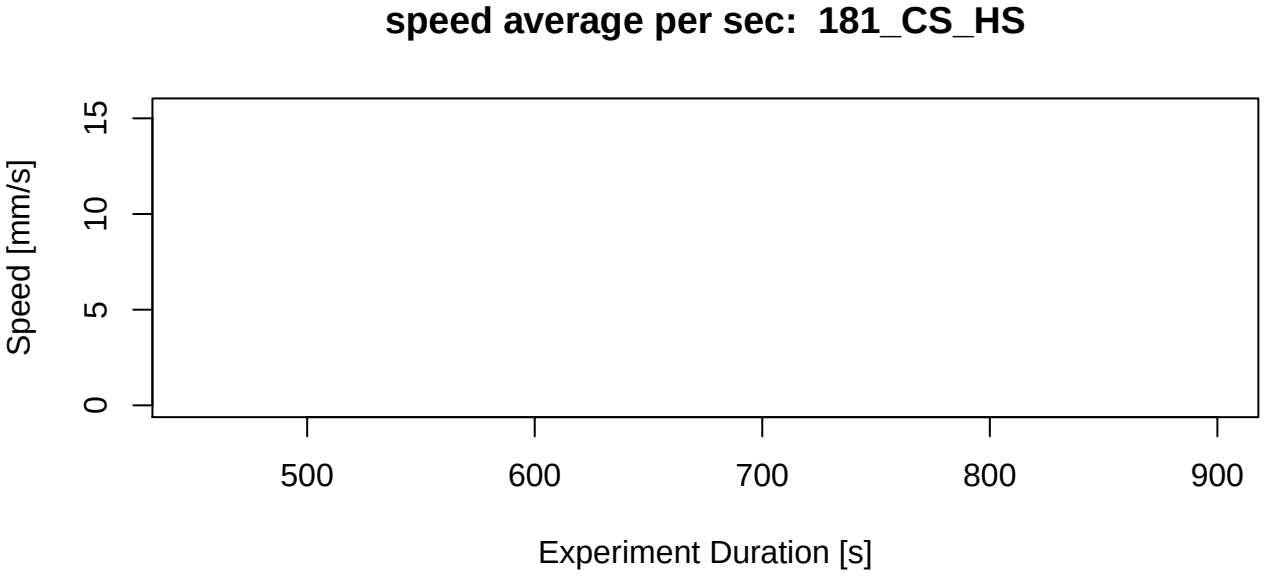

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

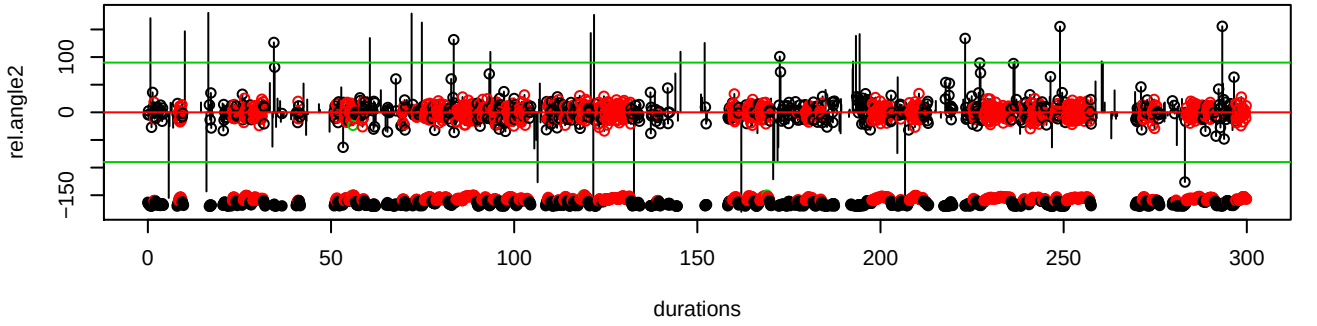

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

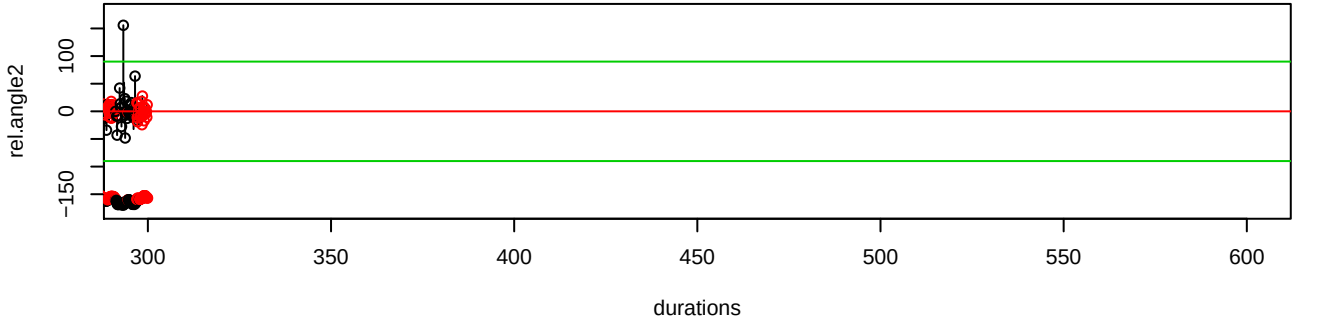

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

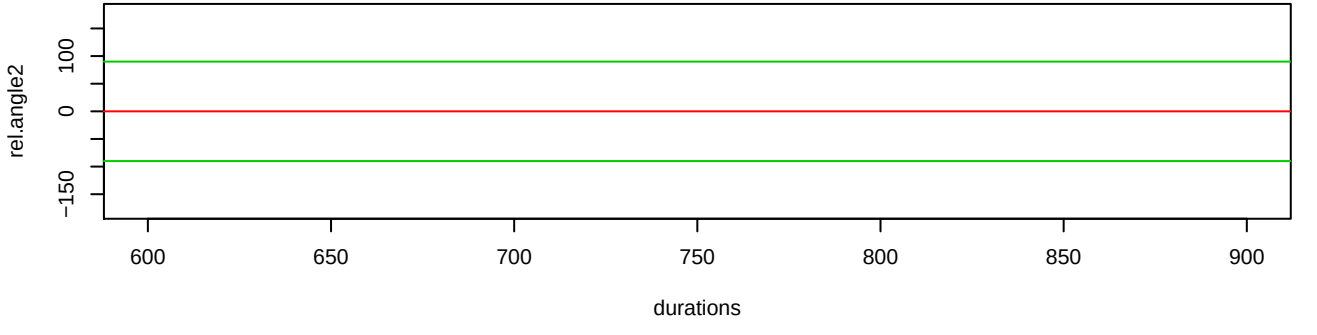

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

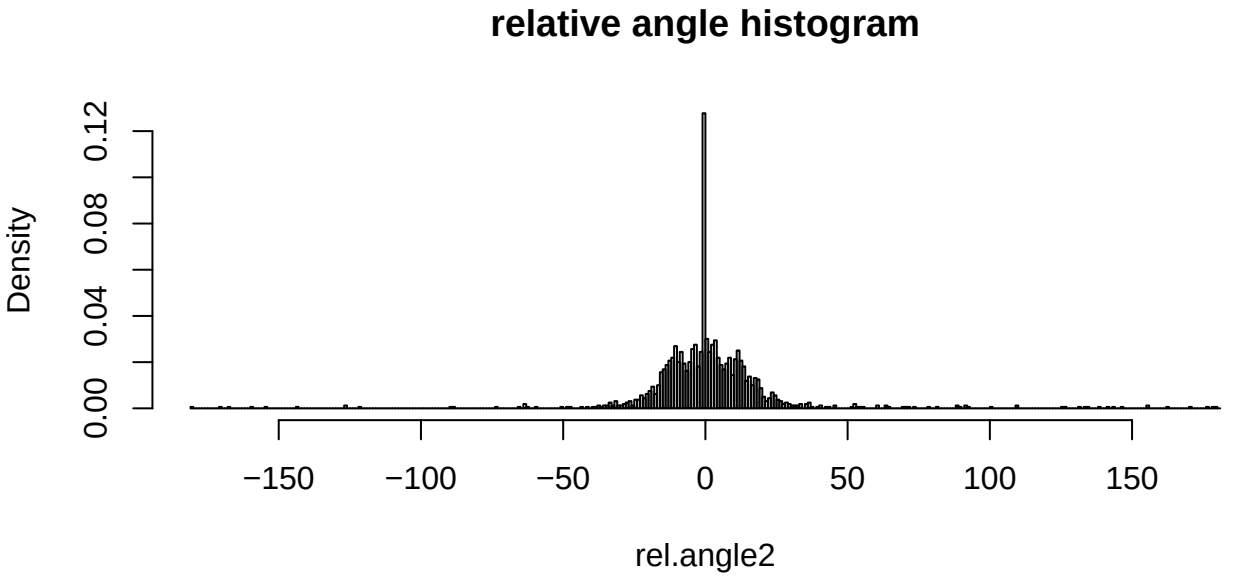

speed average per sec: 181_CS_HS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

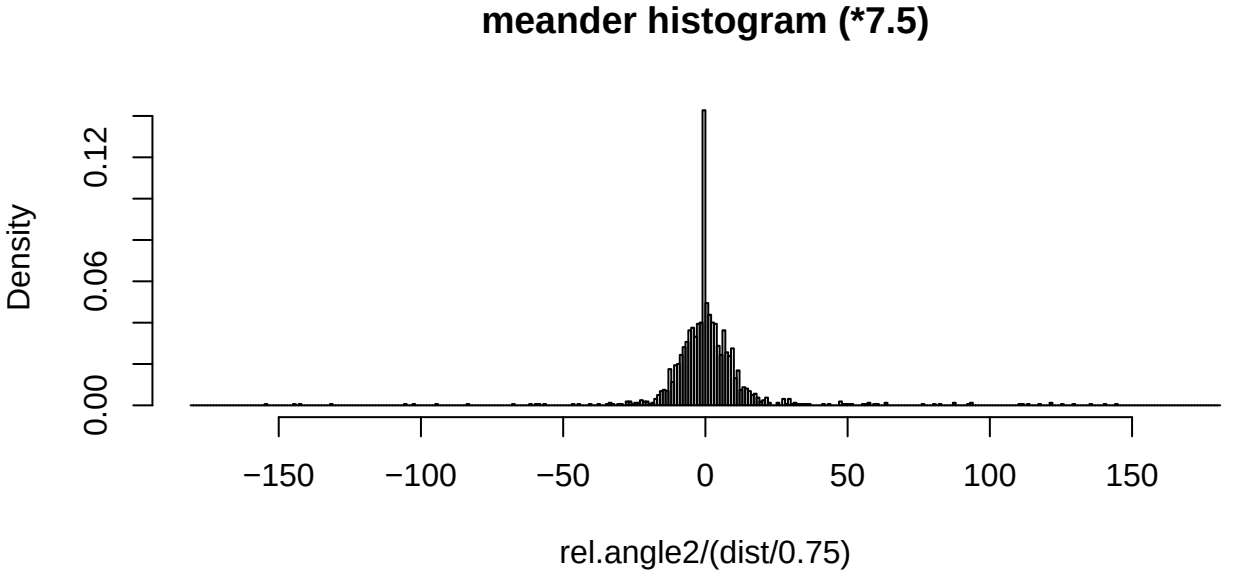

speed average per sec: 181_CS_HS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

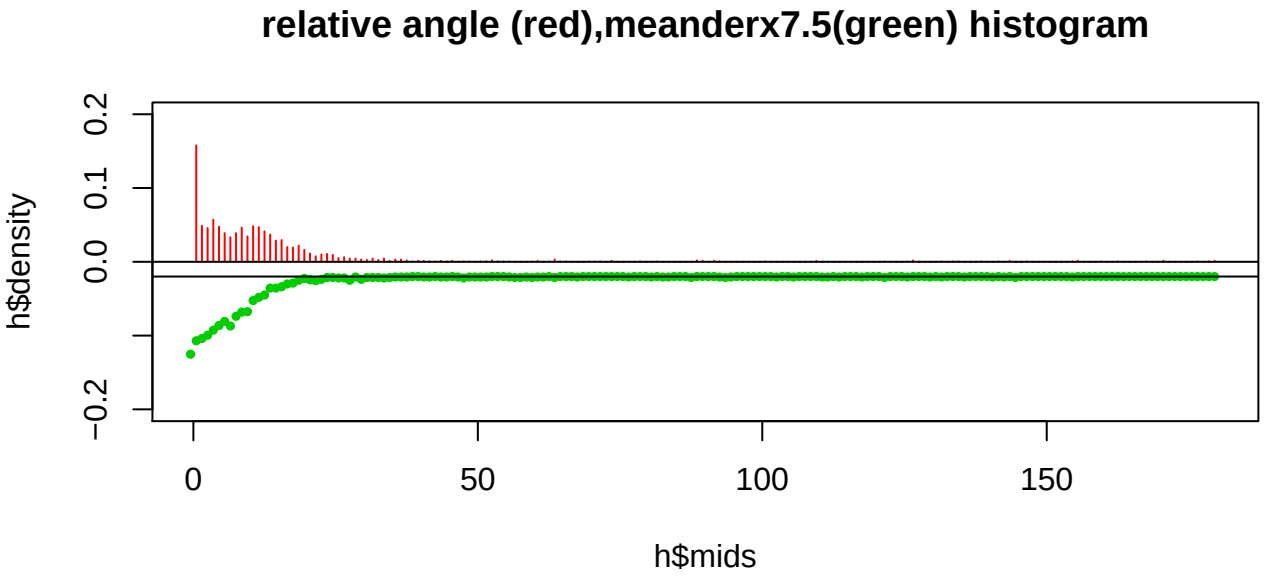

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

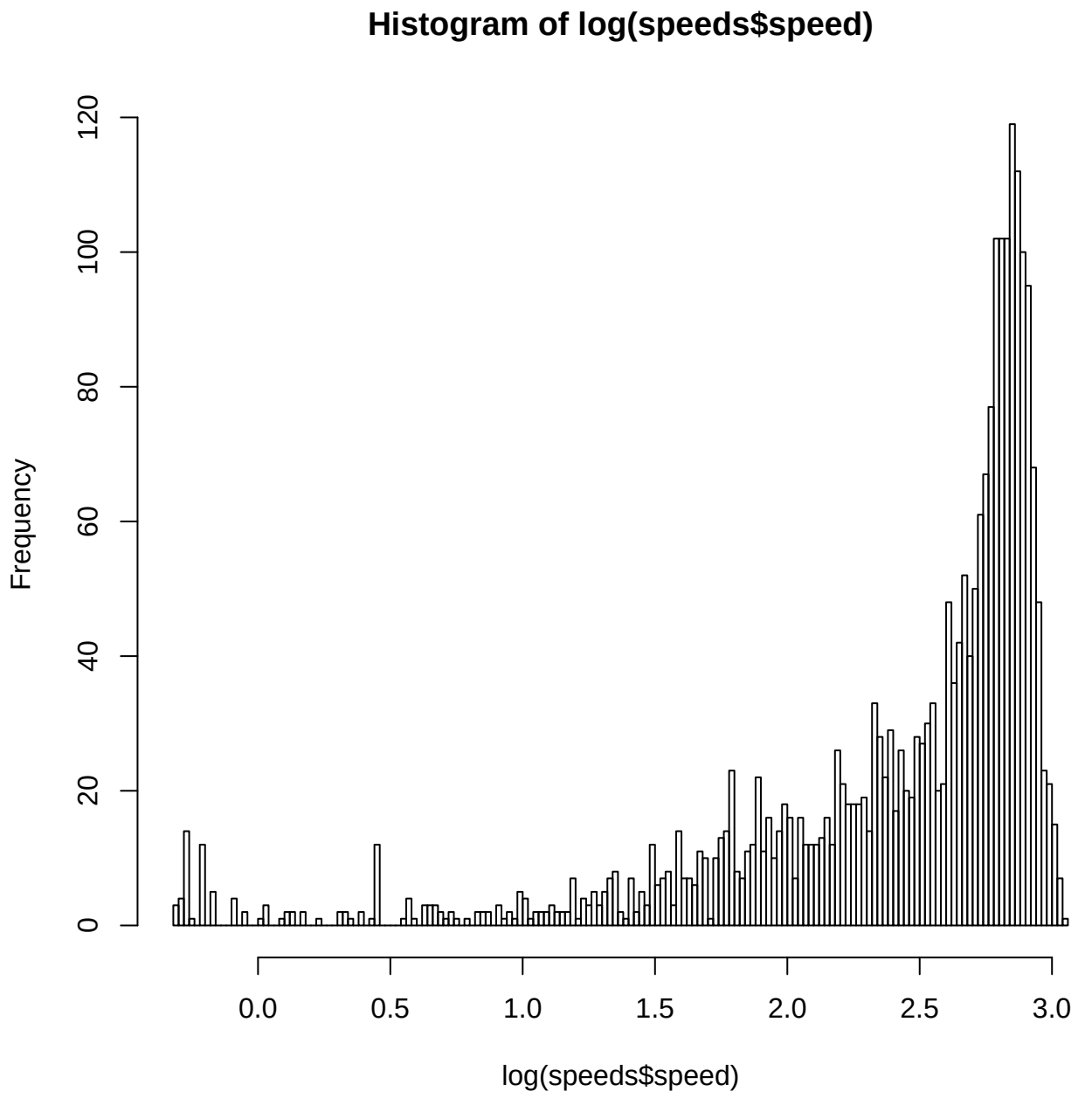

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

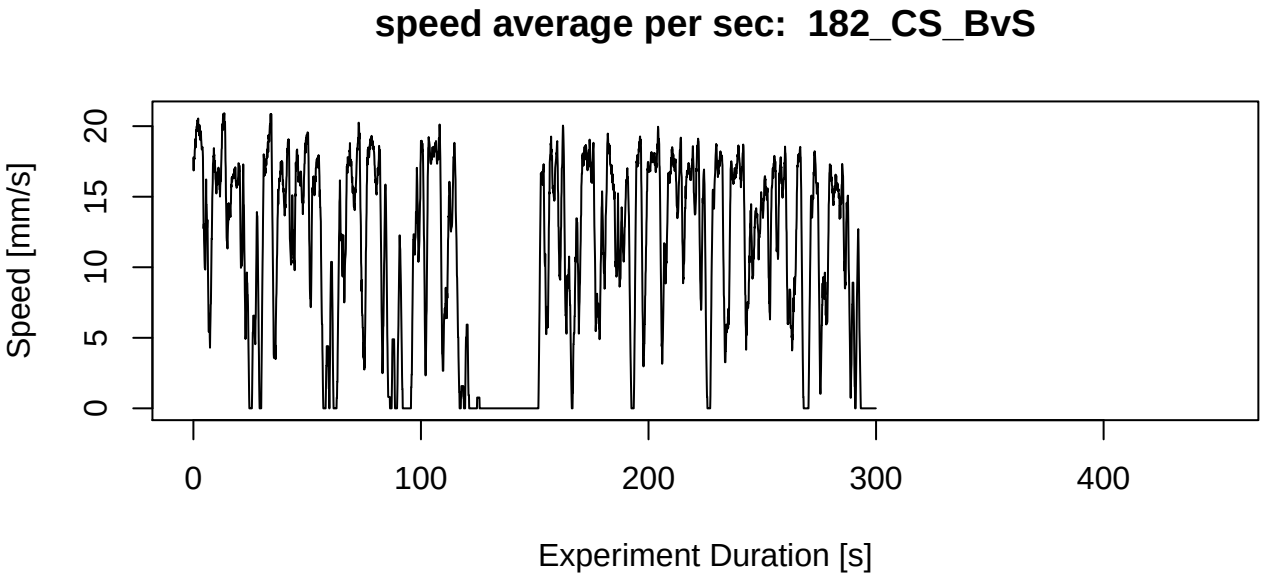

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

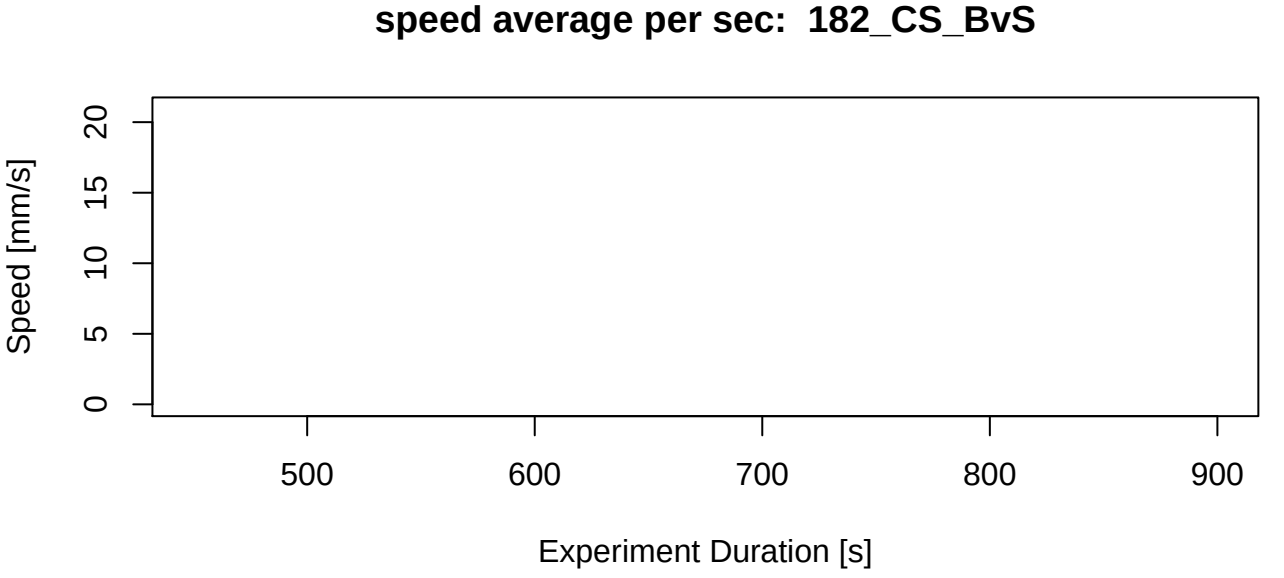

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

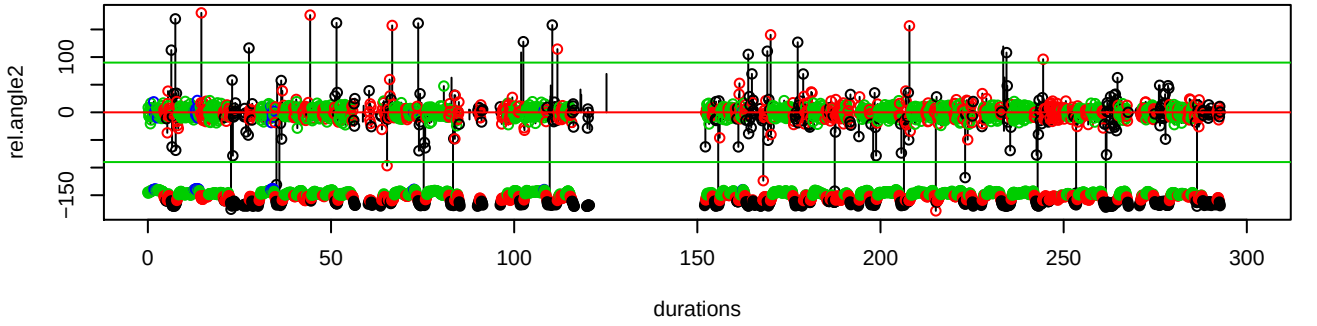

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

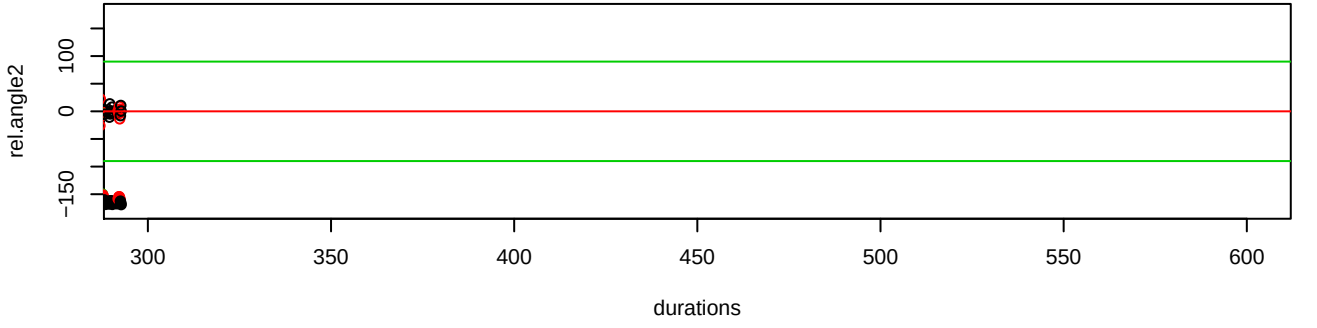

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

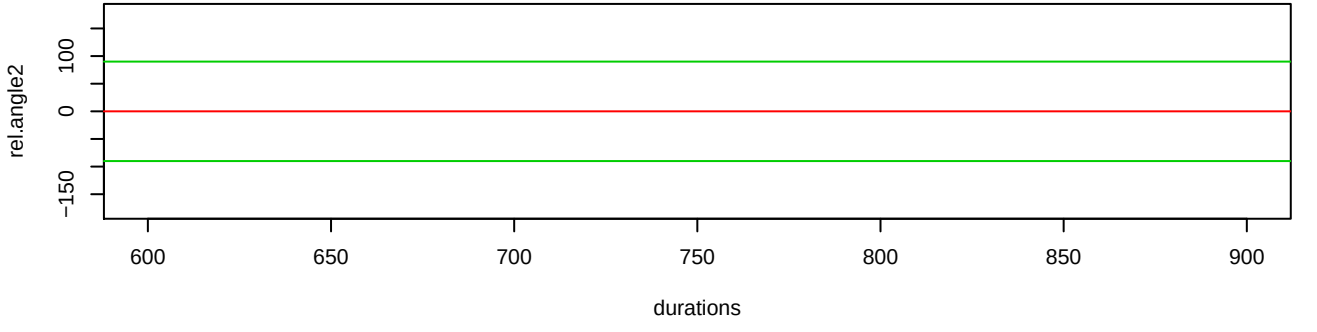

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

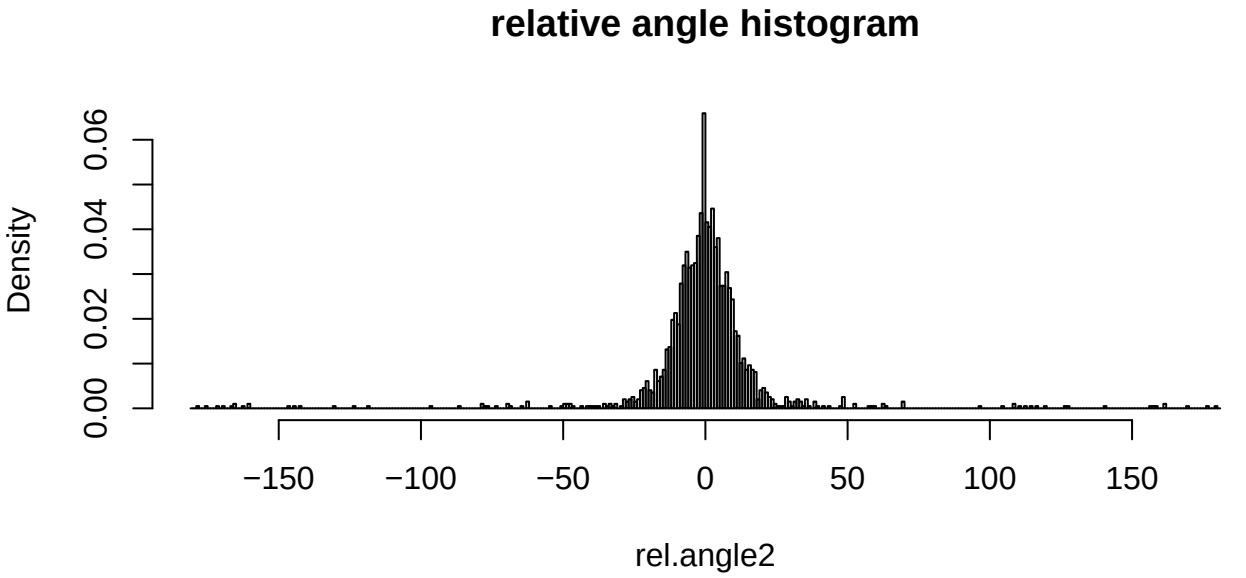

speed average per sec: 182_CS_BvS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

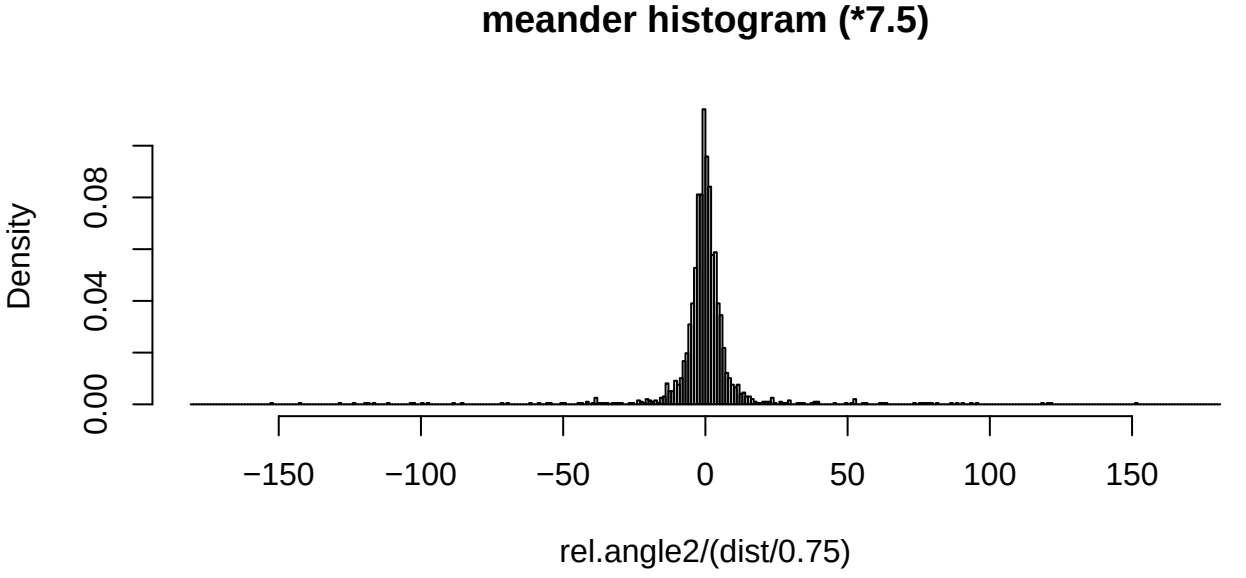

speed average per sec: 182_CS_BvS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

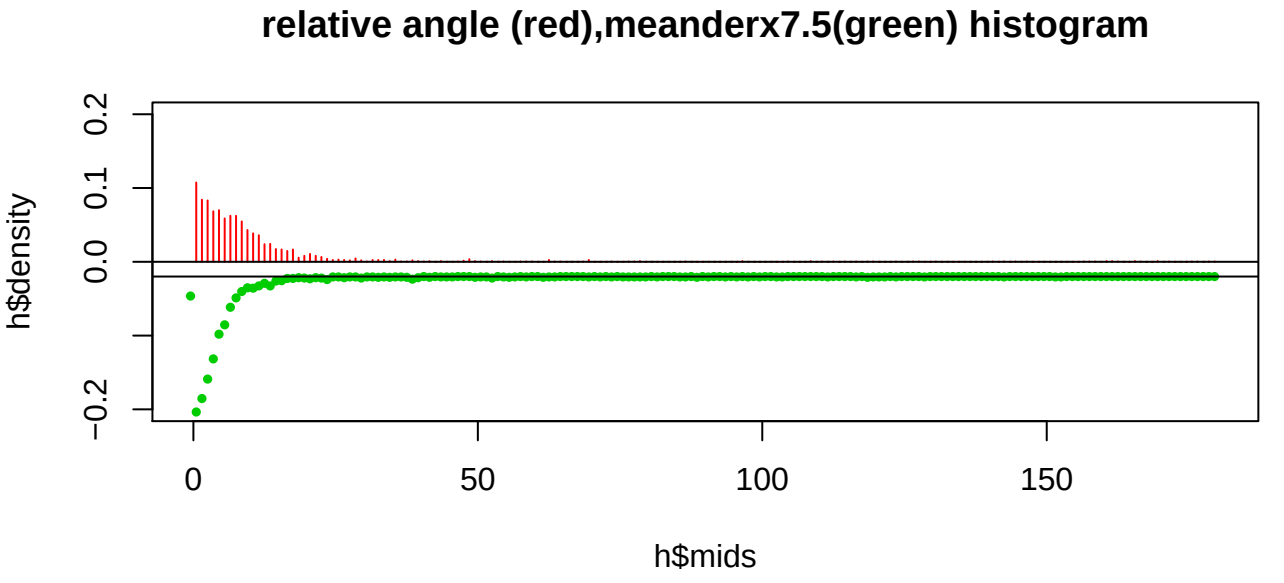

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

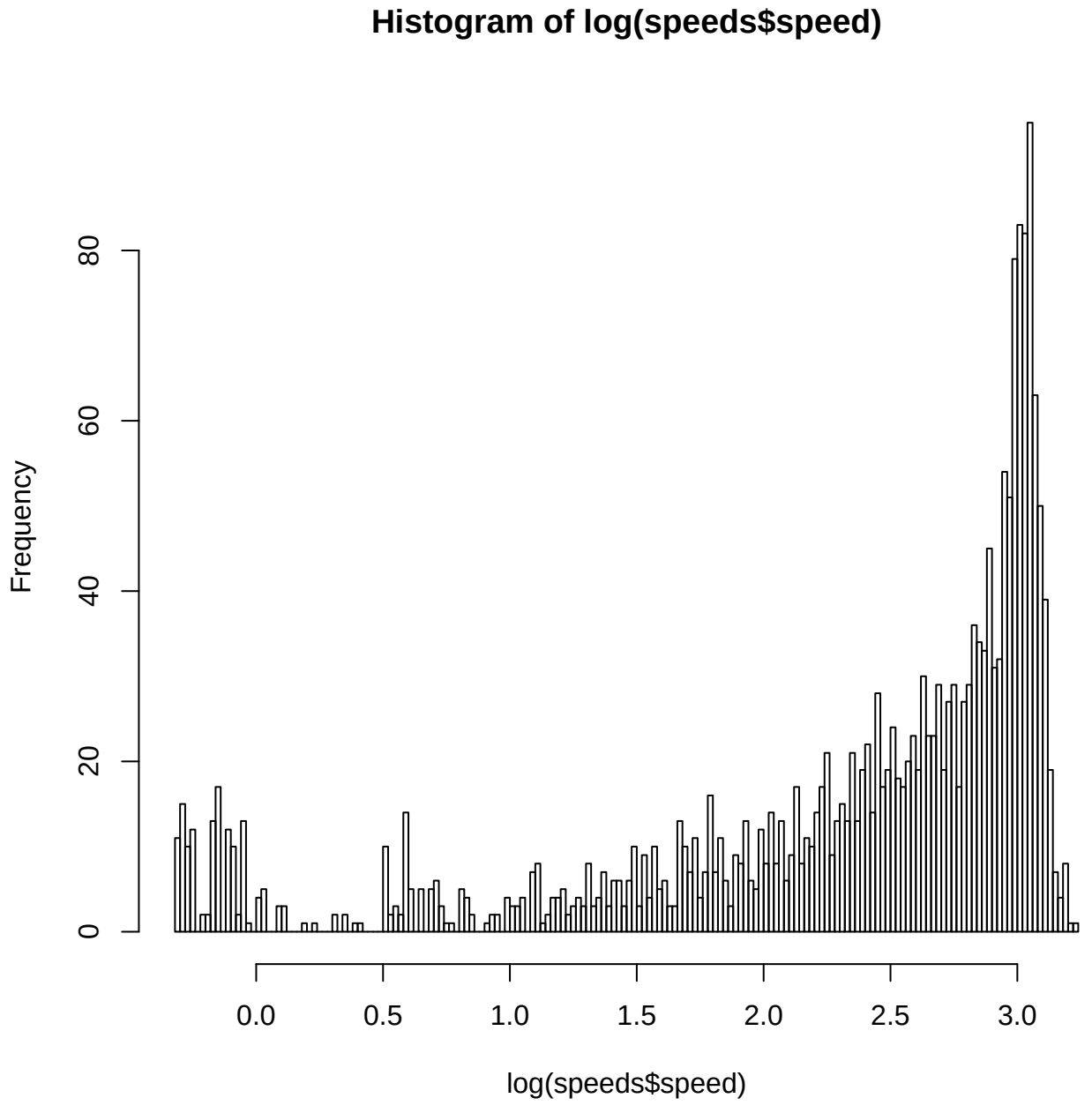

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

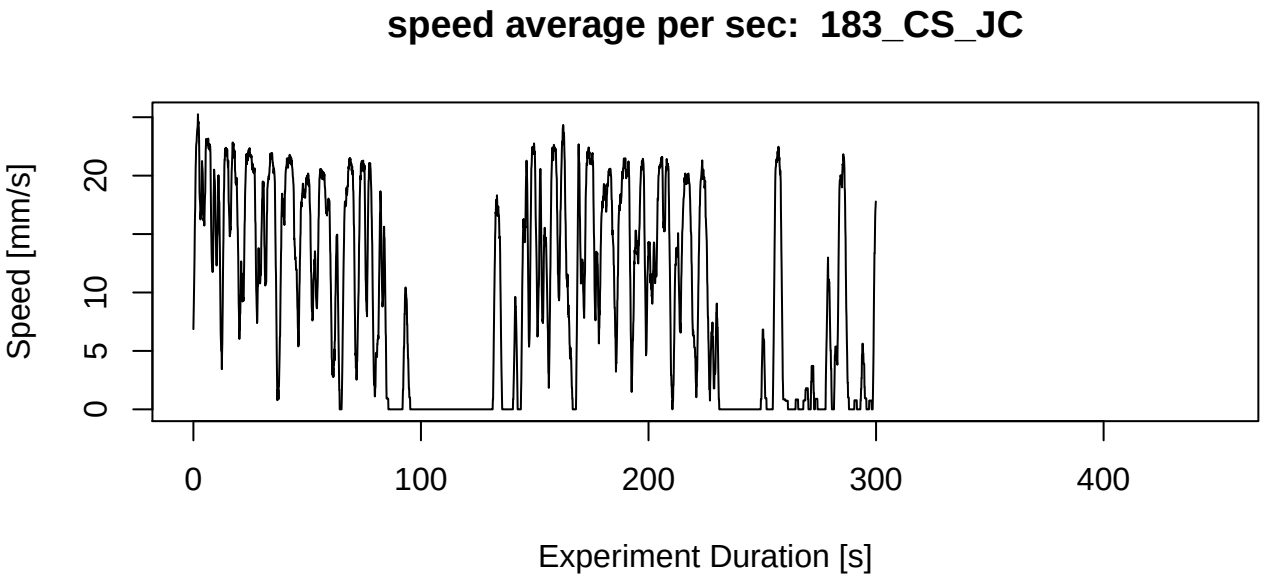

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

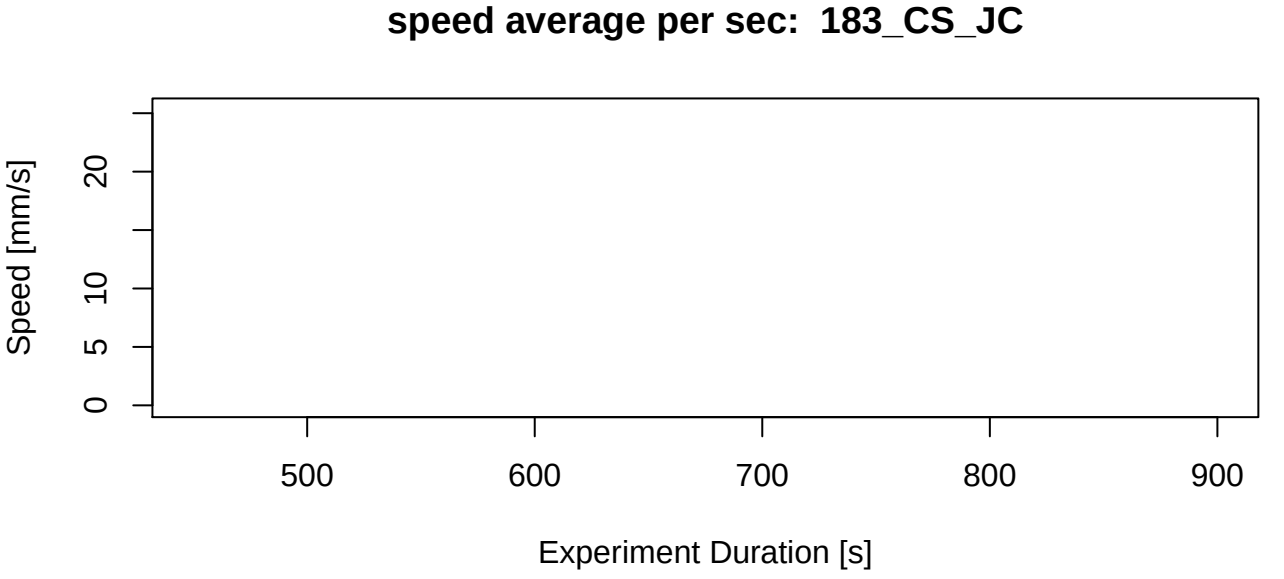

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

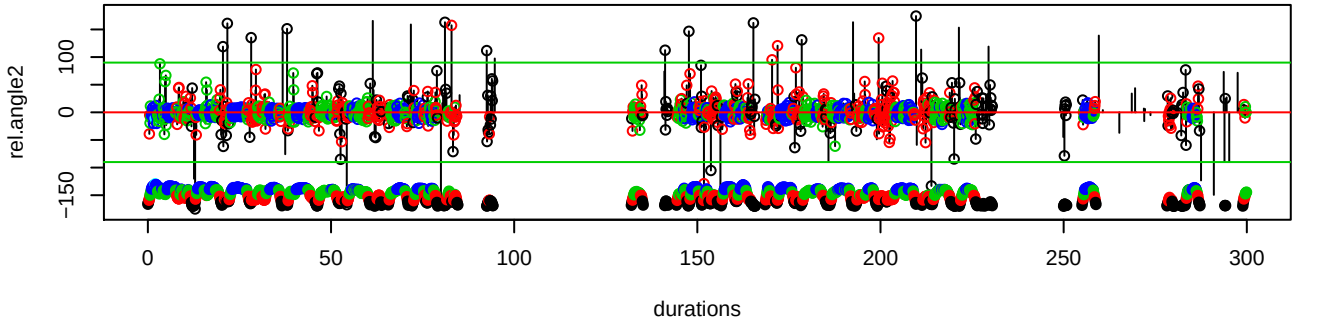

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

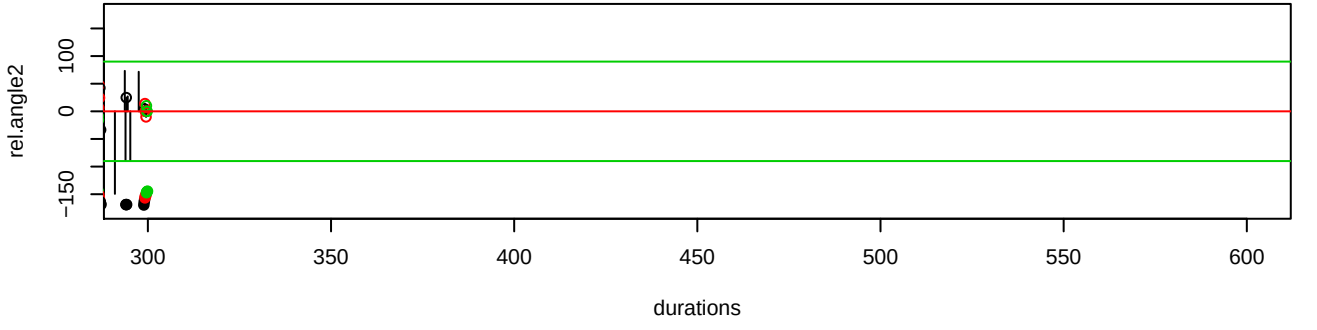

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

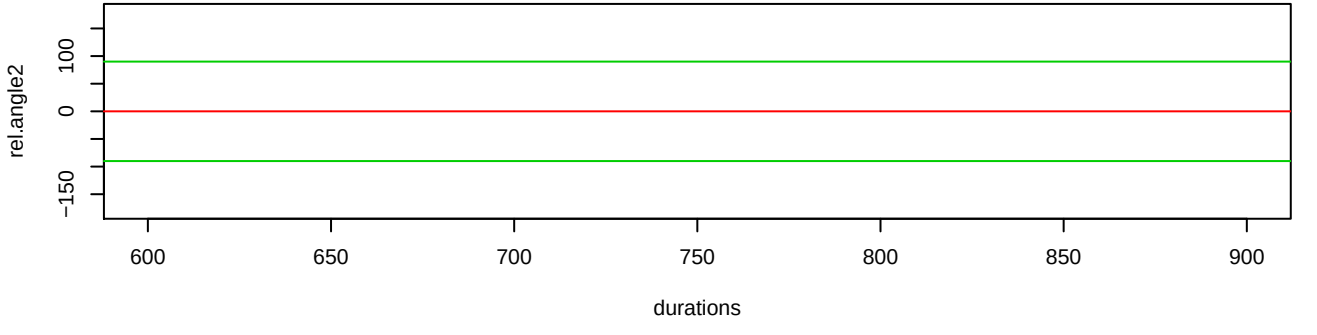

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

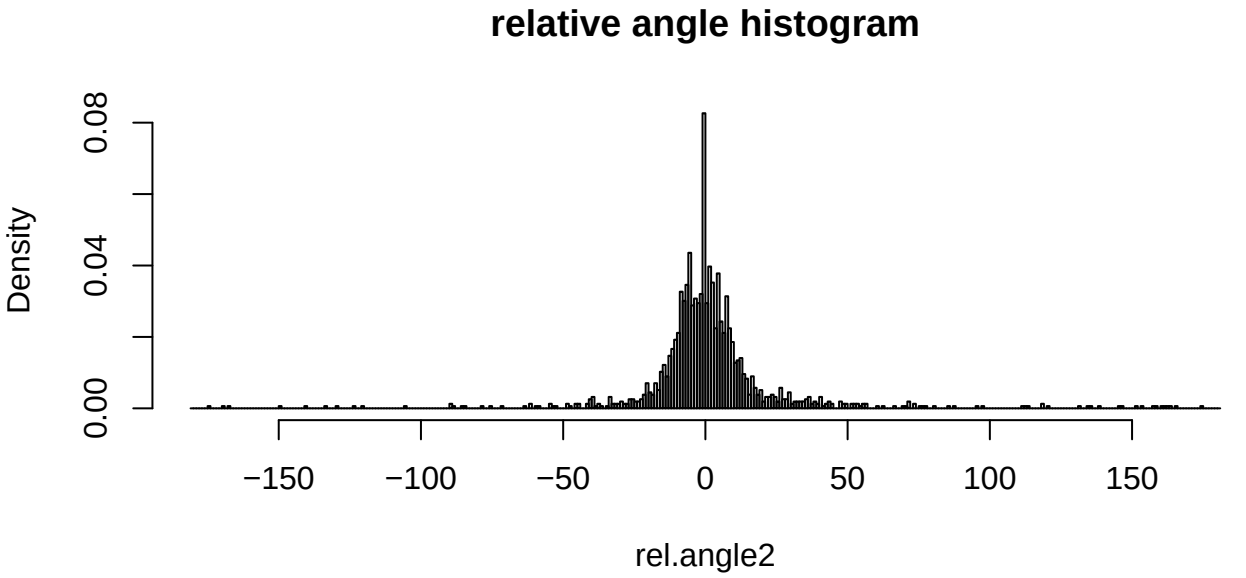

speed average per sec: 183_CS_JC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

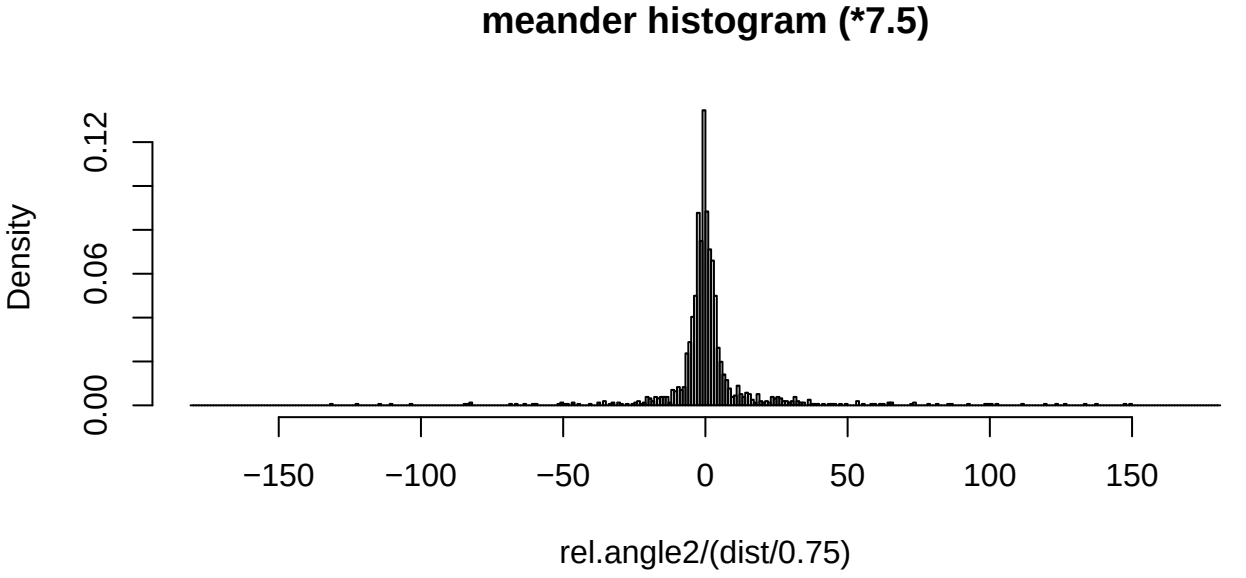

speed average per sec: 183_CS_JC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

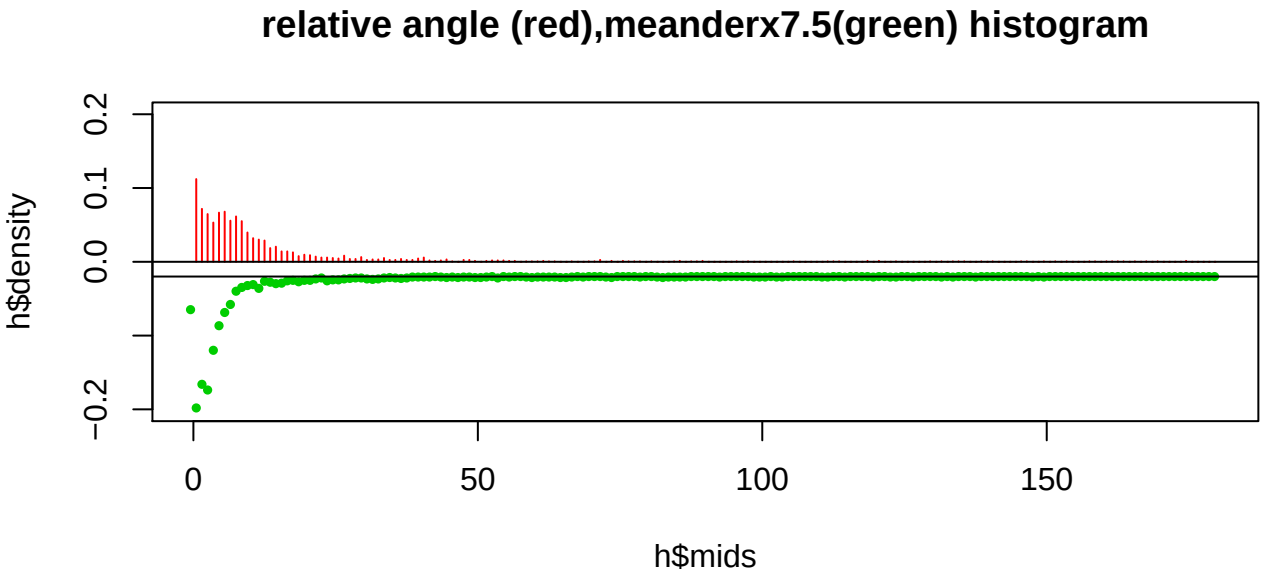

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

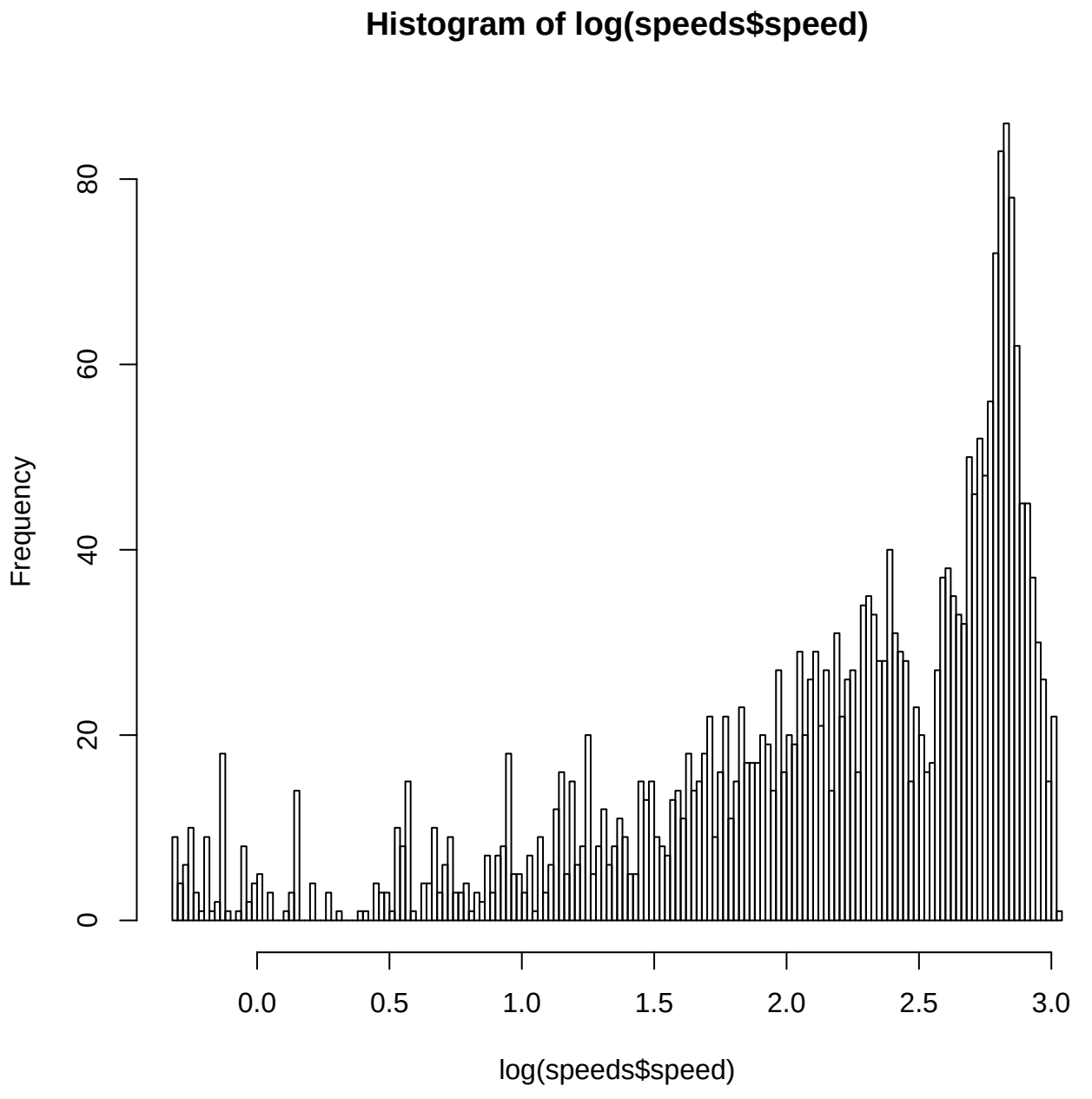

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

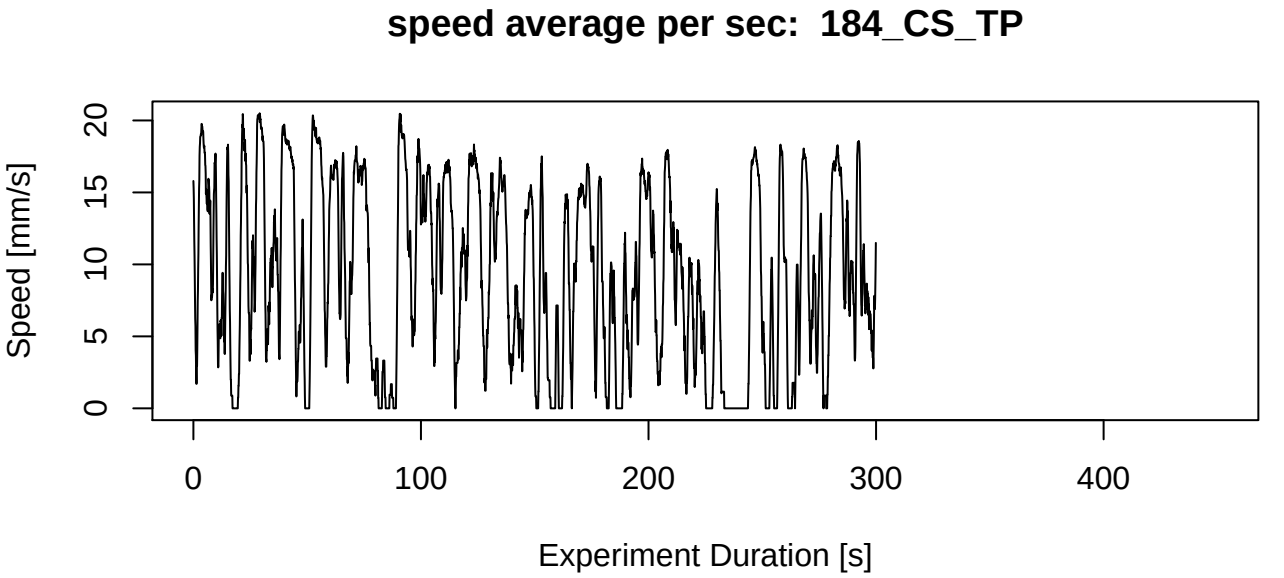

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

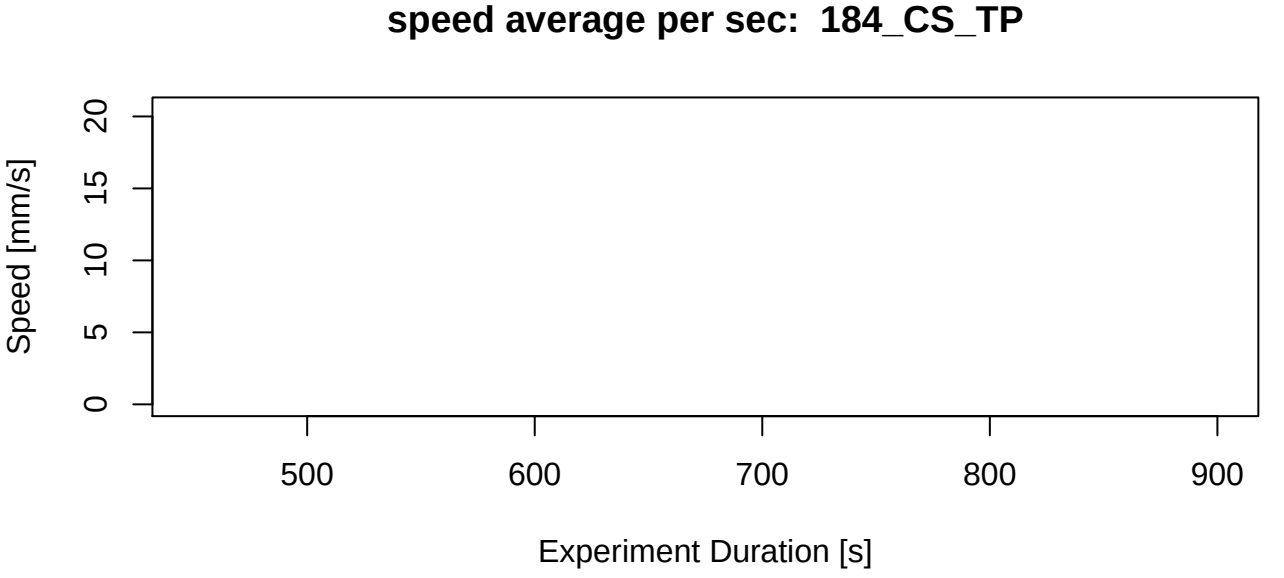

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

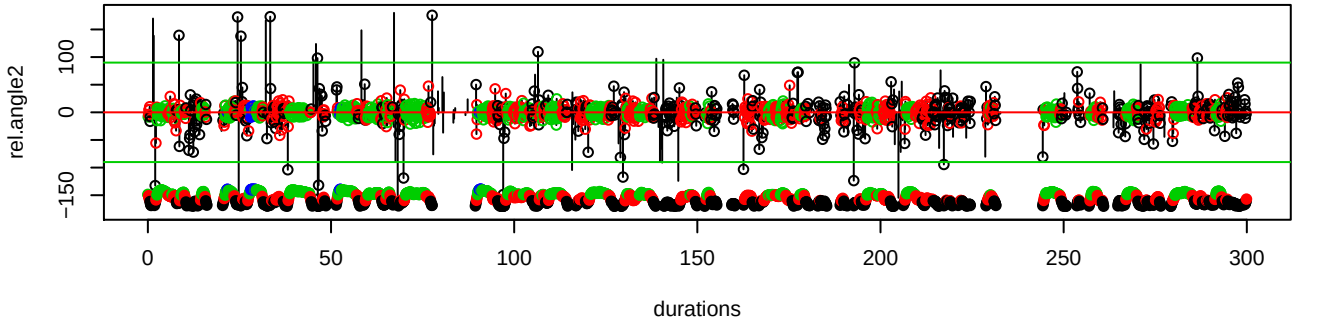

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

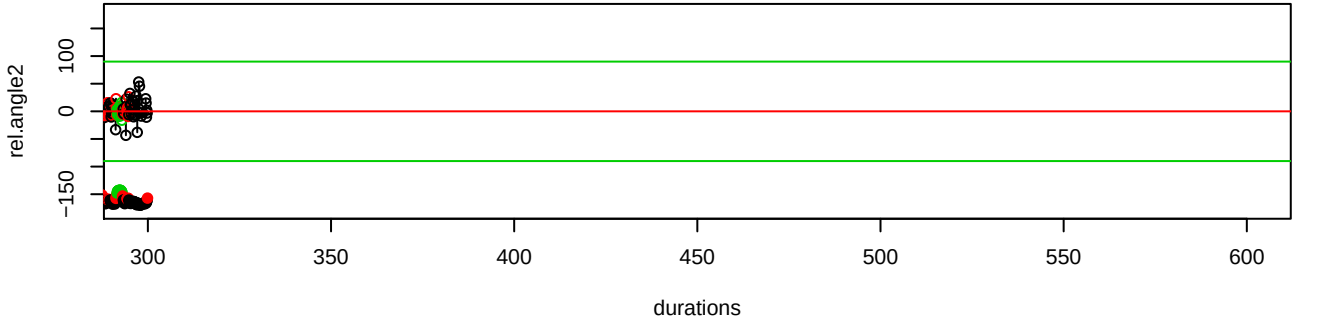

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

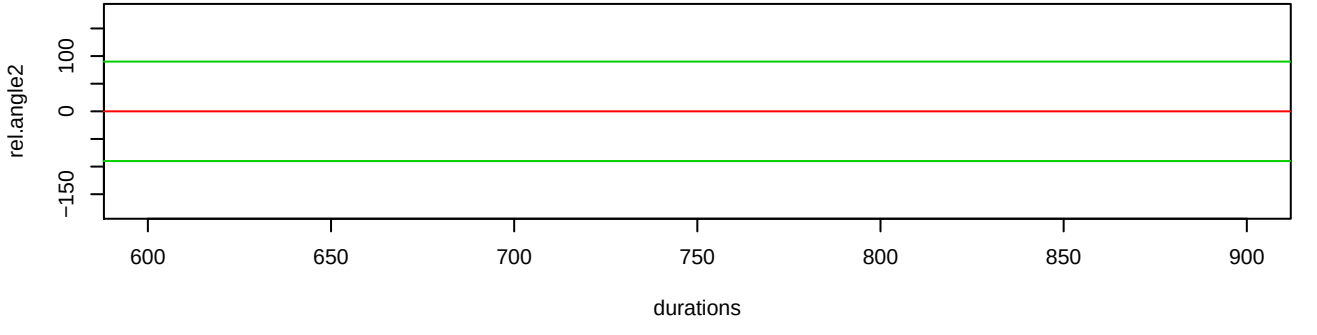

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

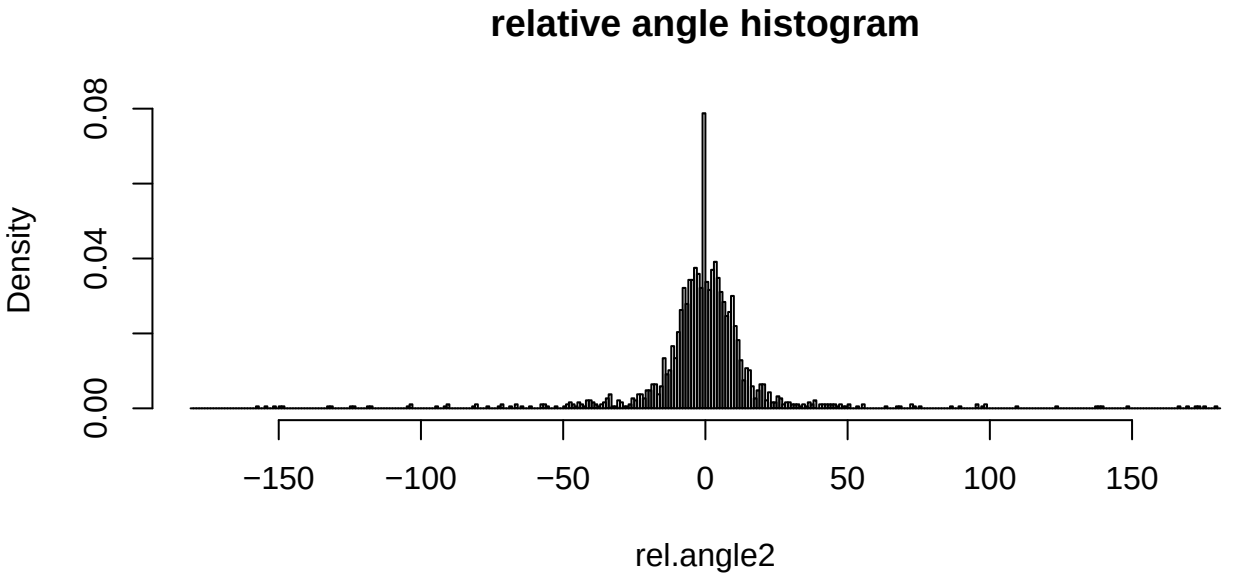

speed average per sec: 184_CS_TP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

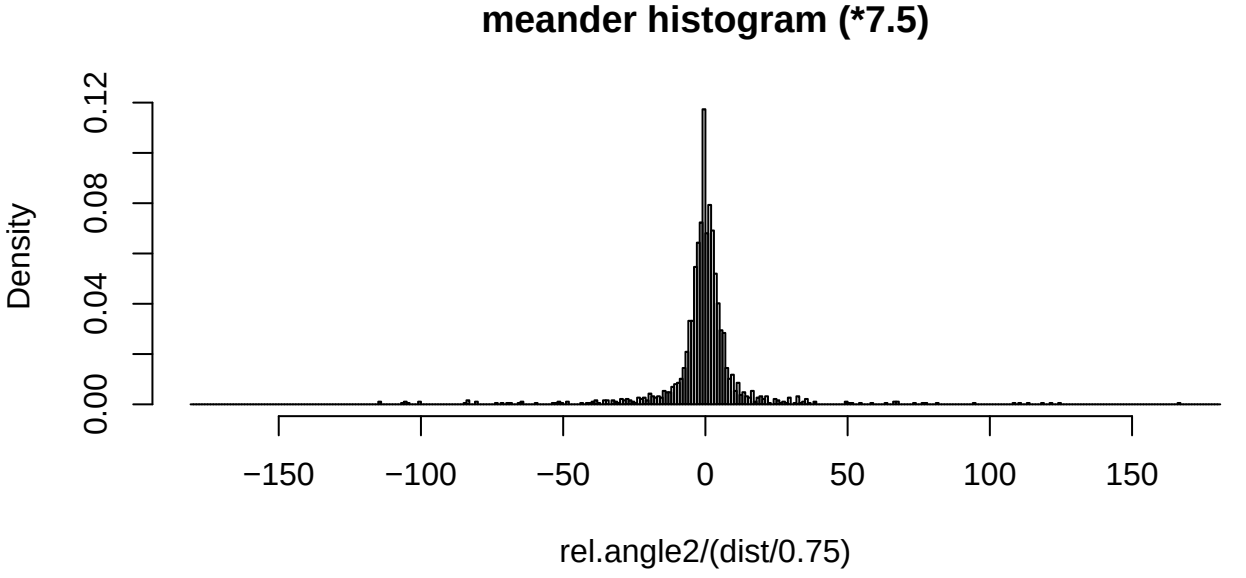

speed average per sec: 184_CS_TP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

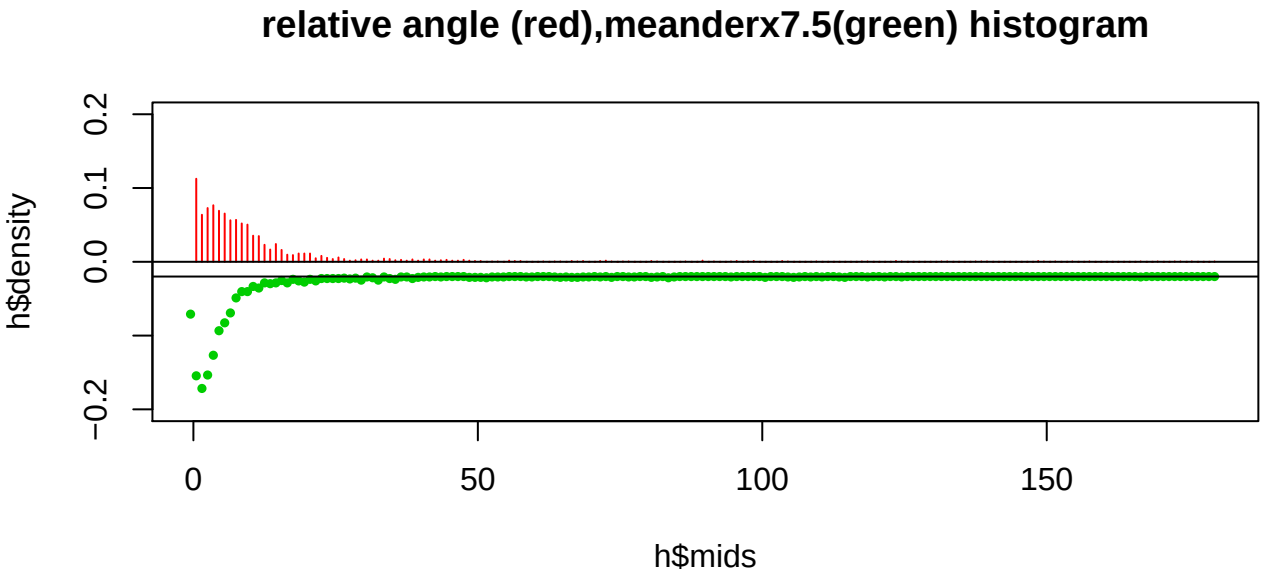

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

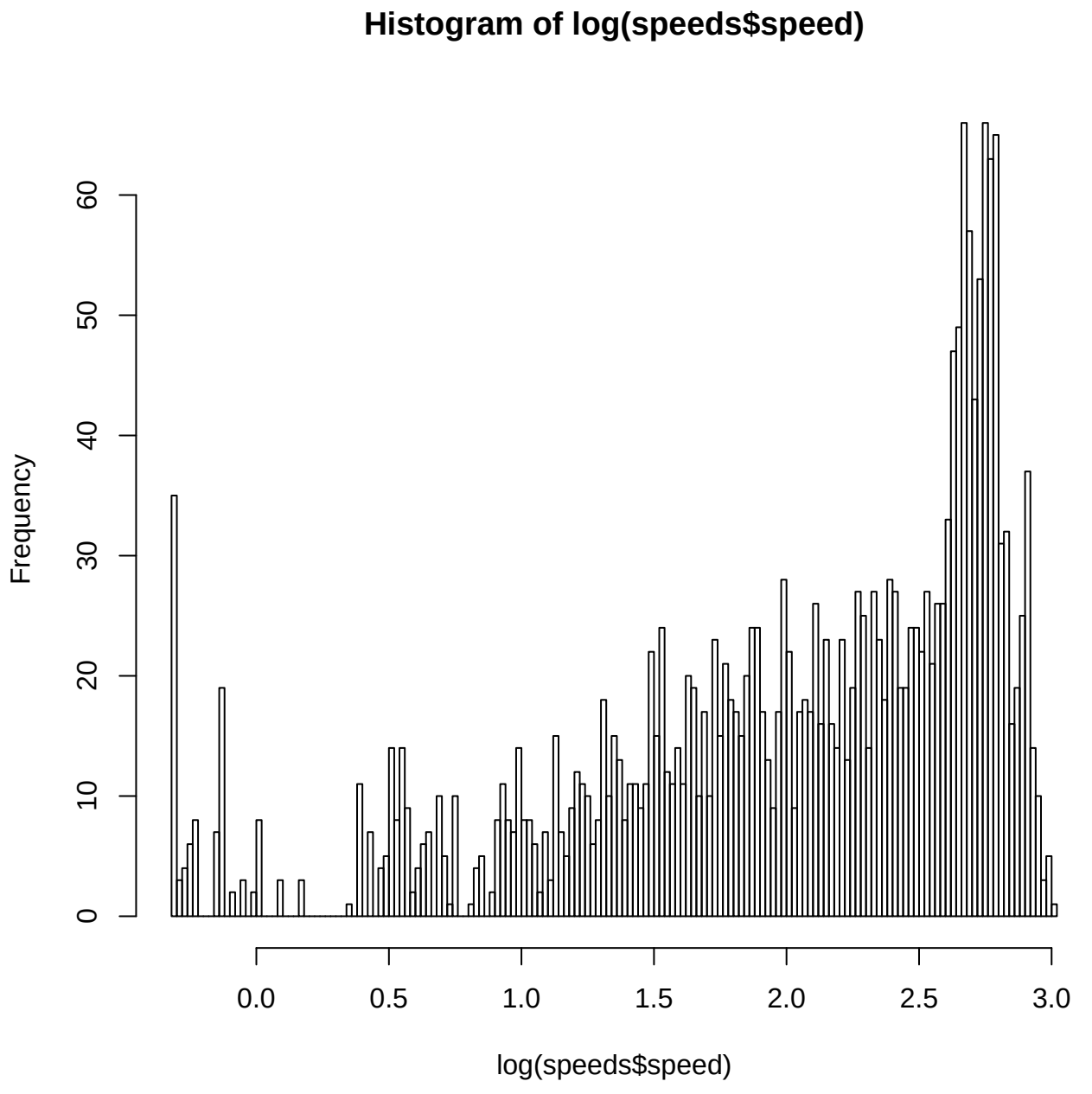

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

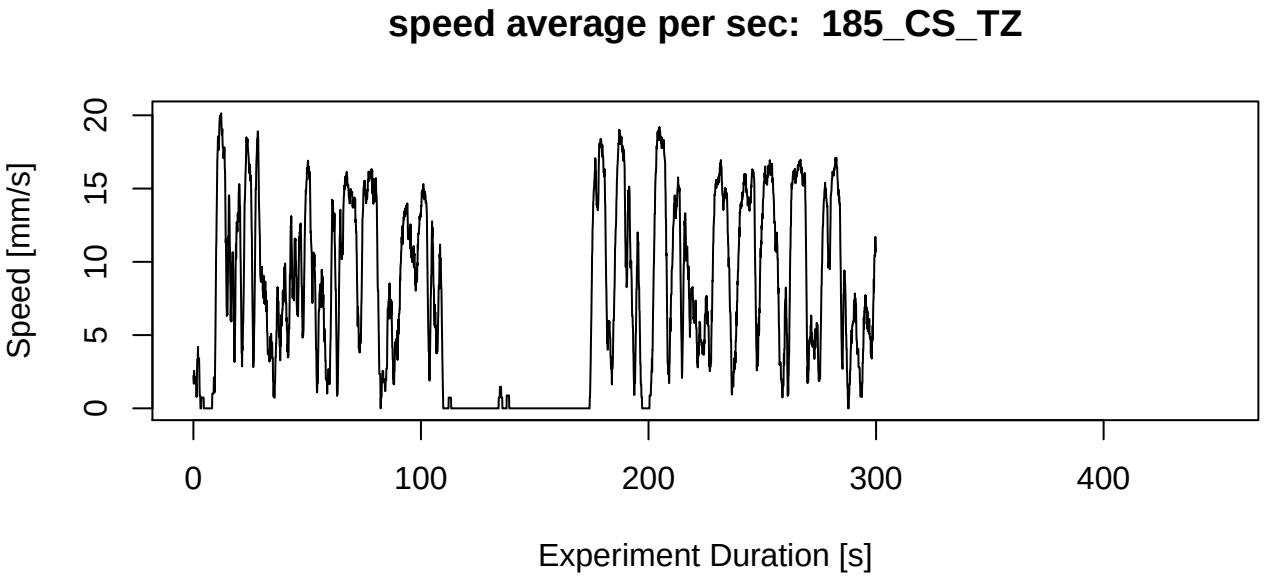

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

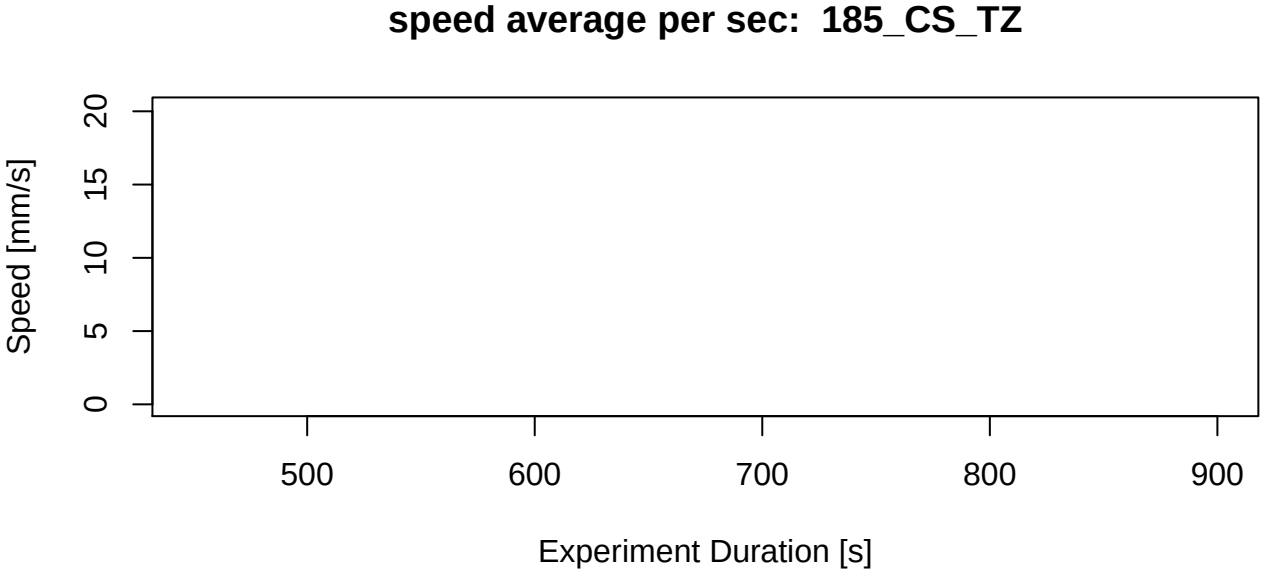

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

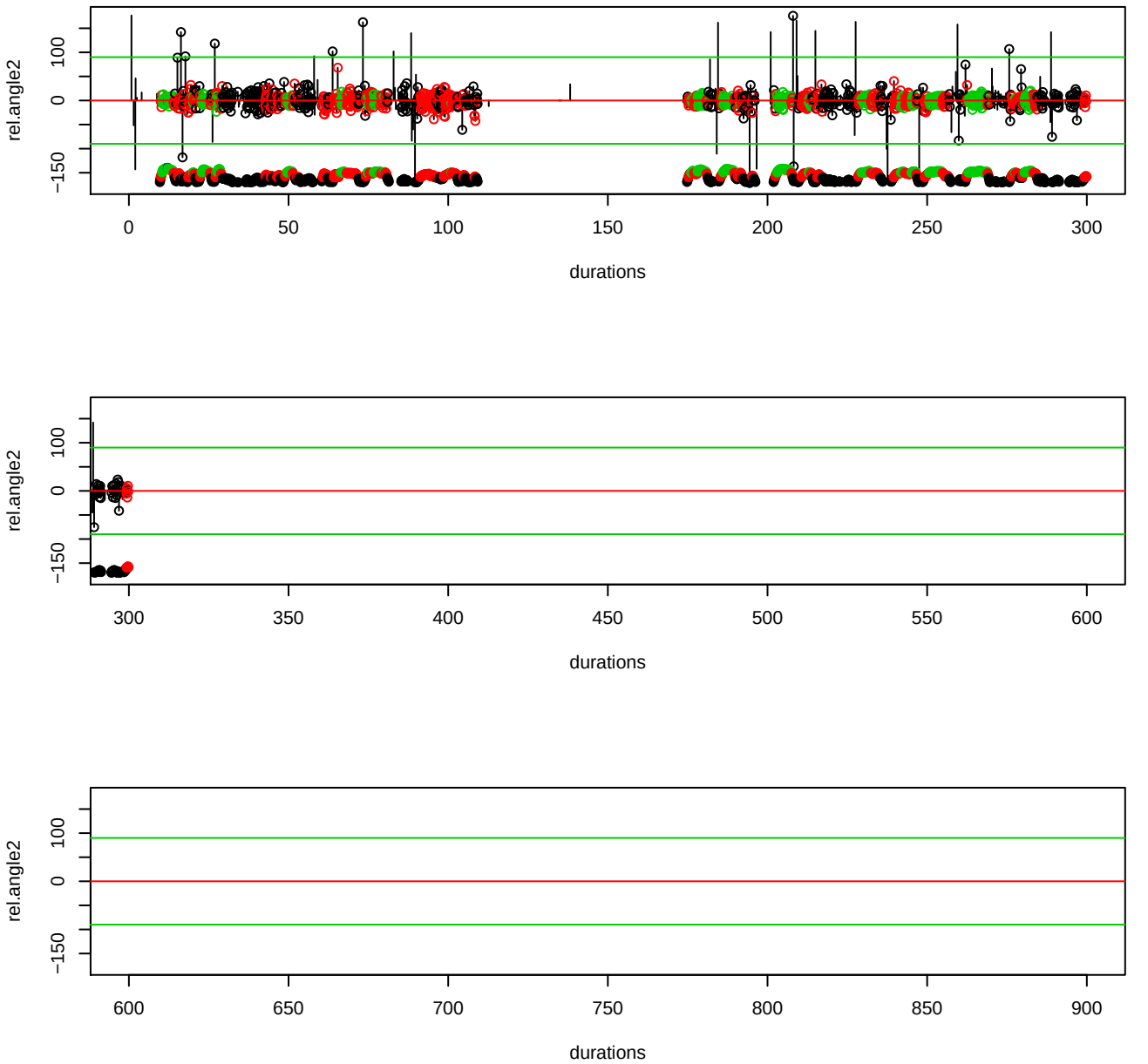

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

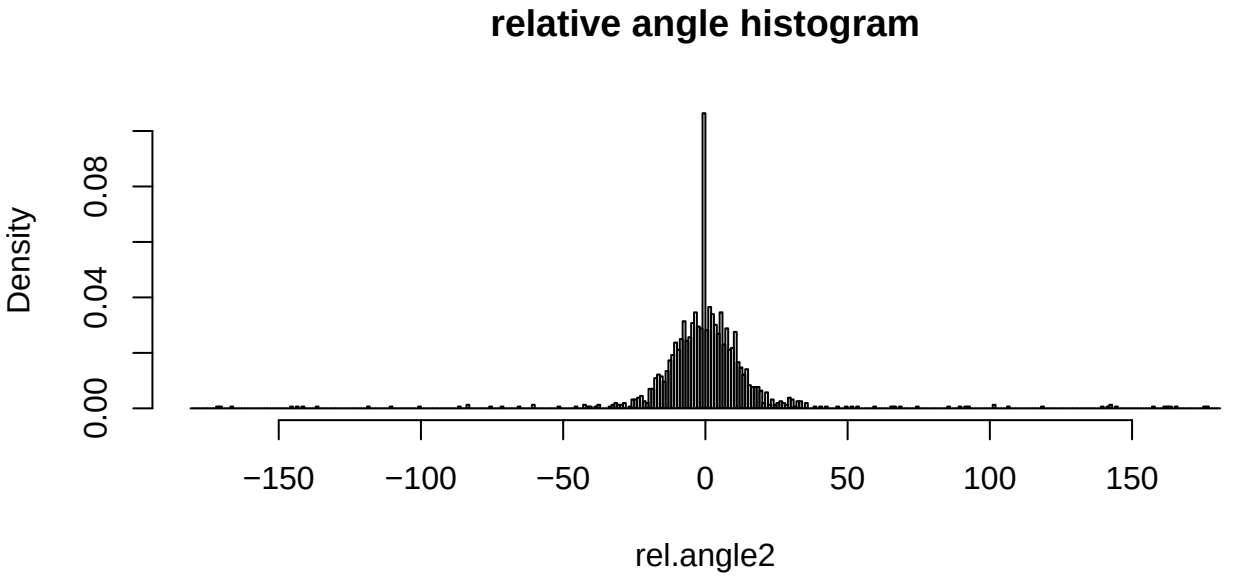

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

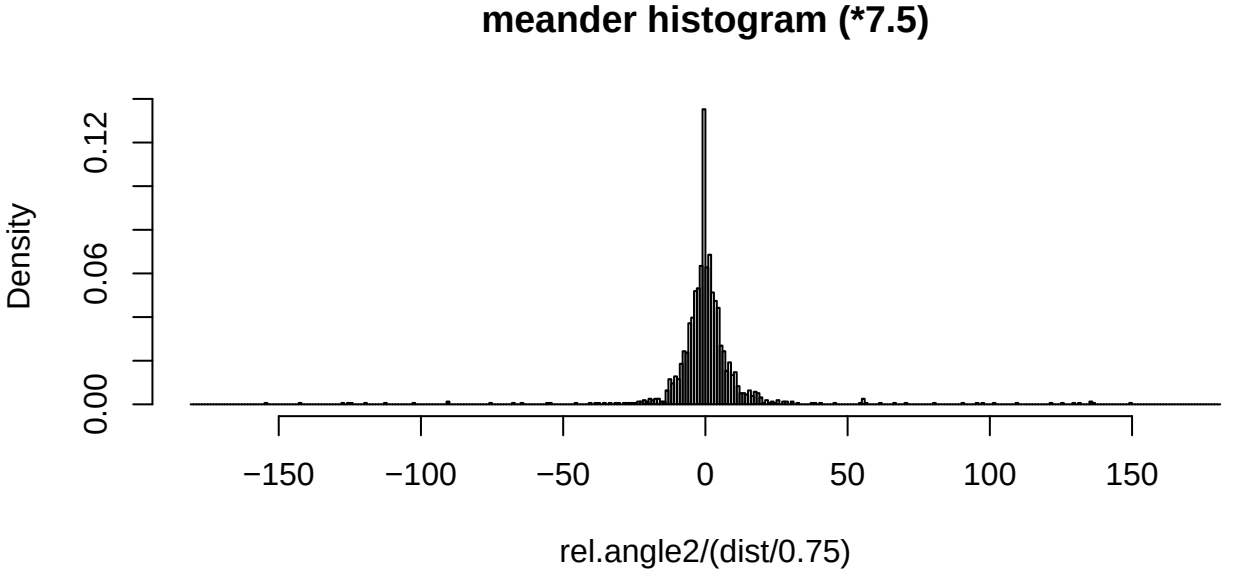

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

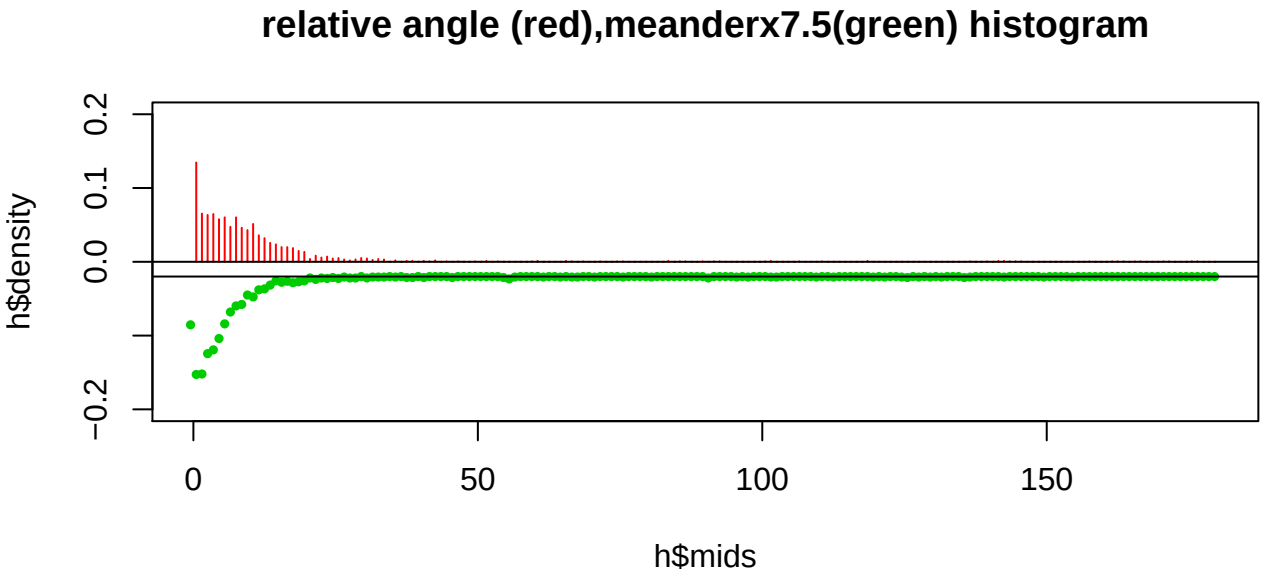

speed average per sec: 185_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

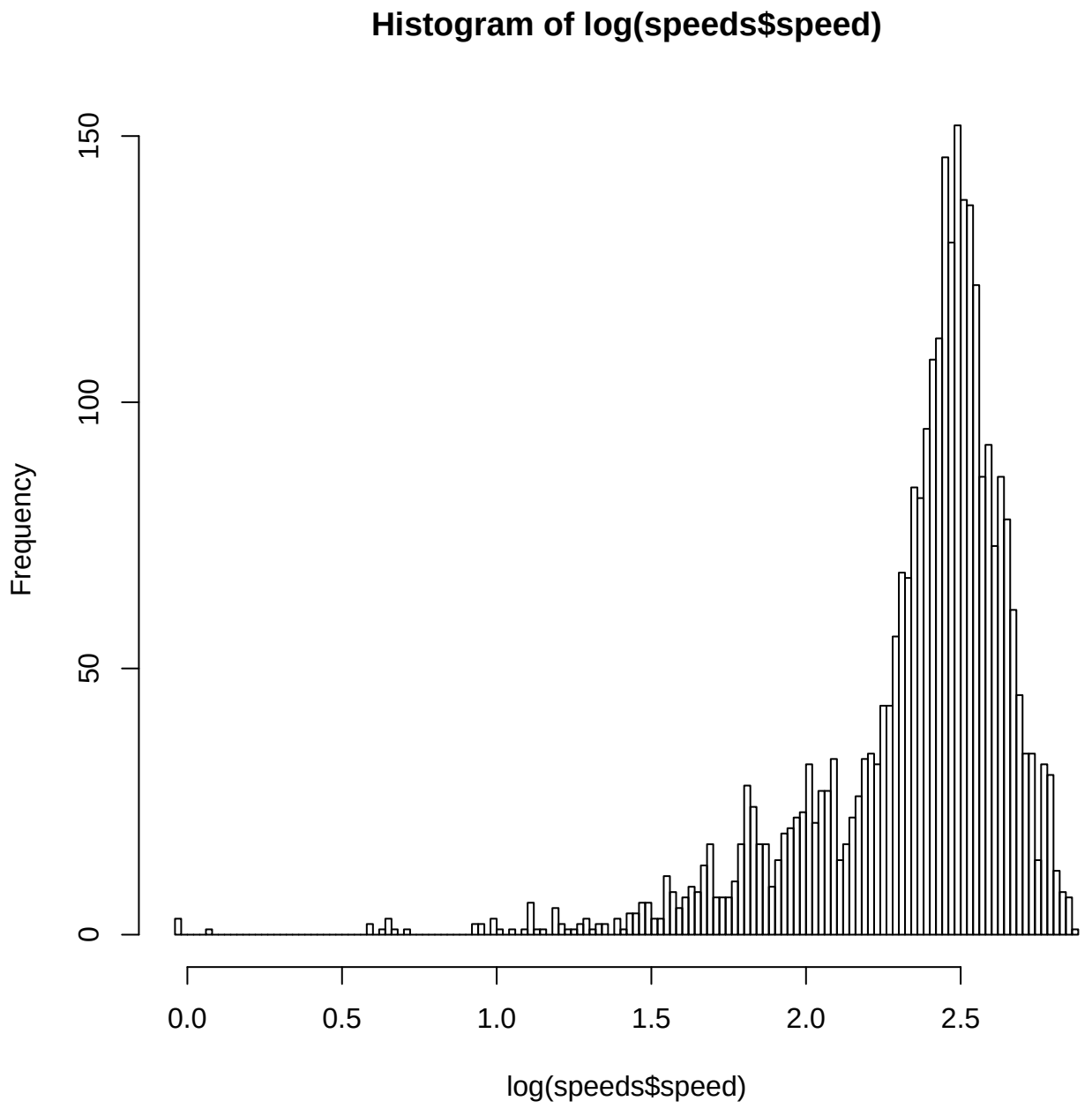

speed average per sec: 185_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

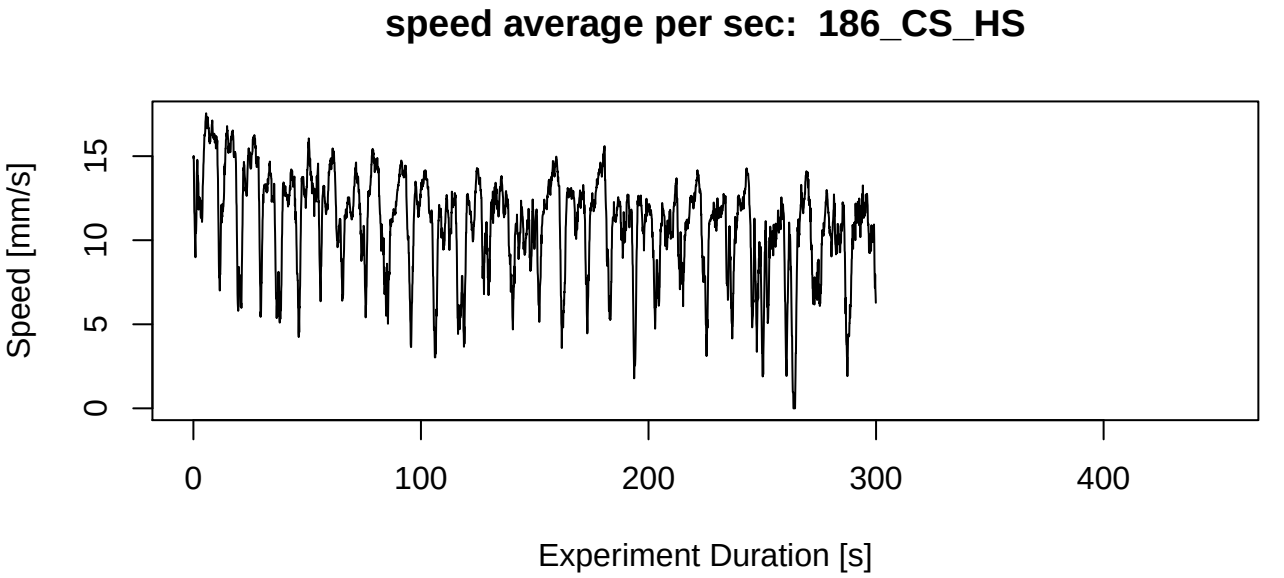

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

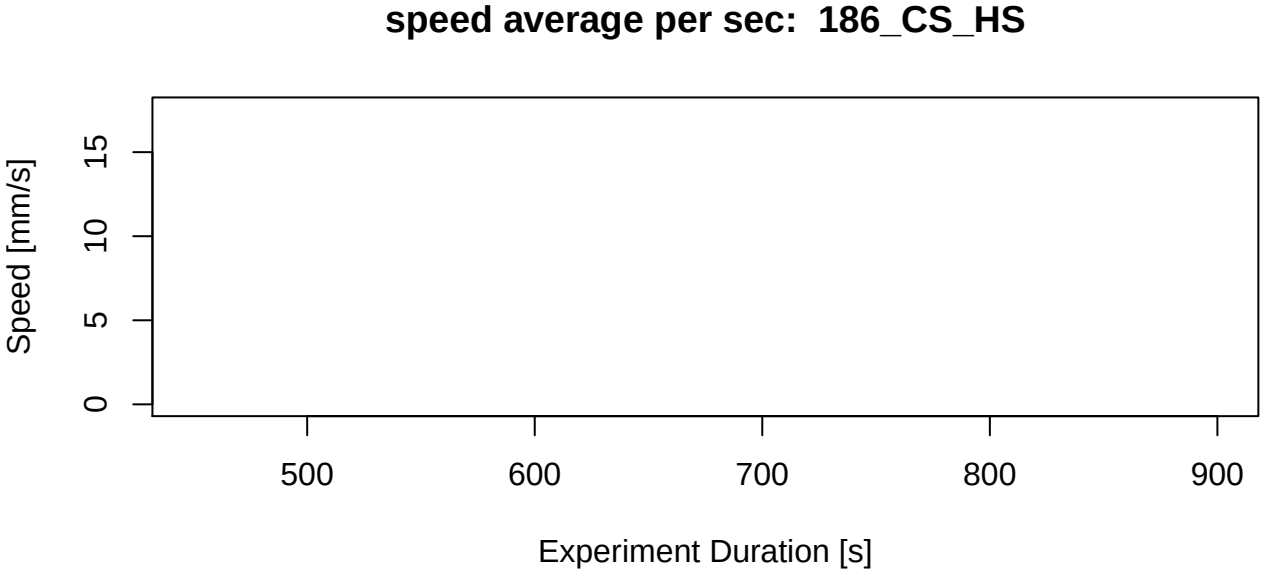

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

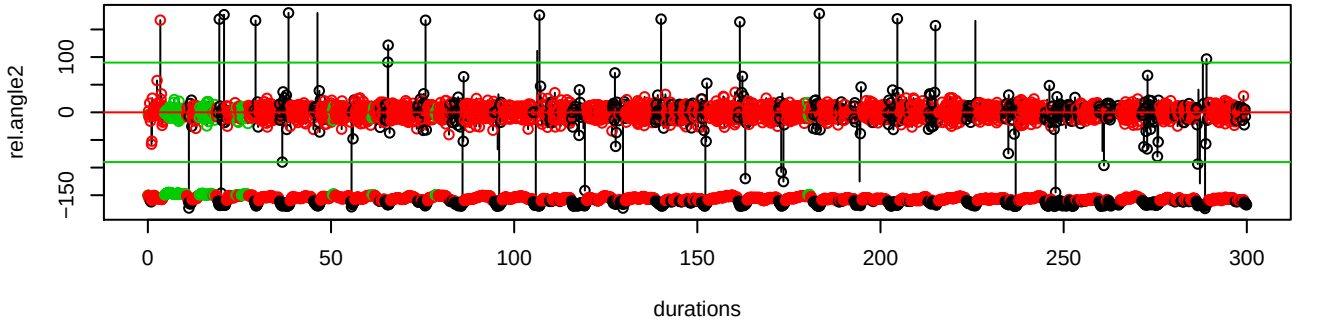

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

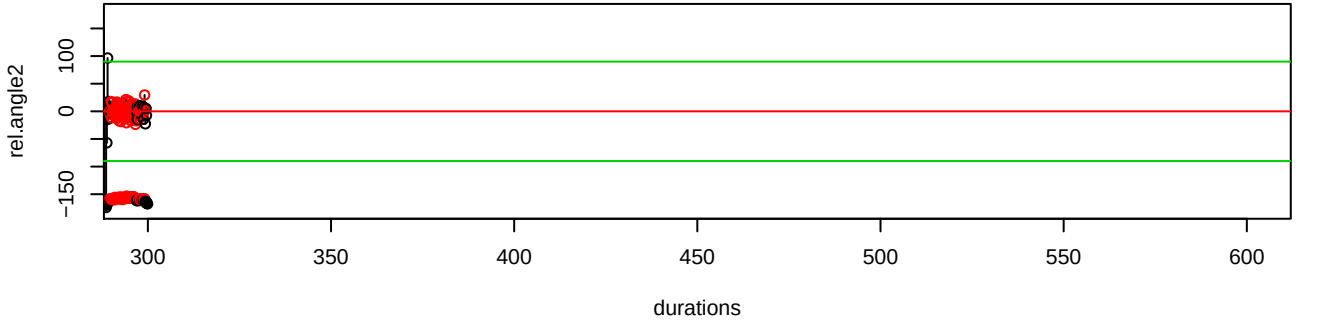

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

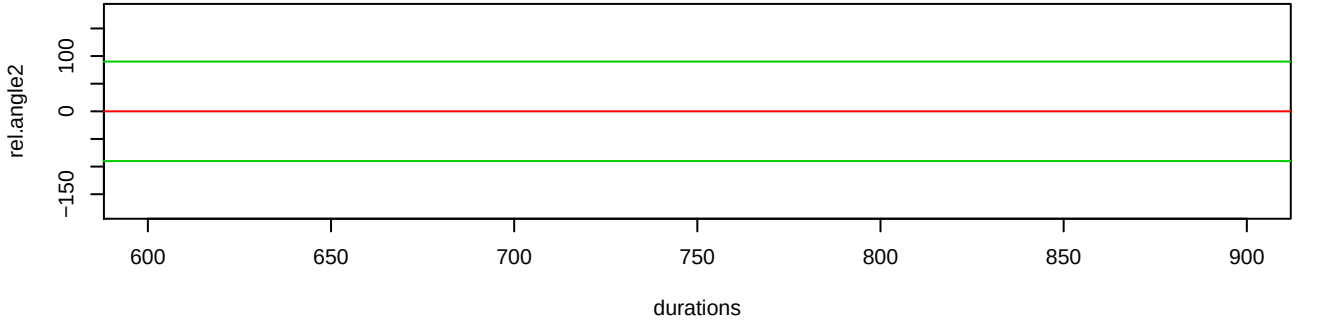

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

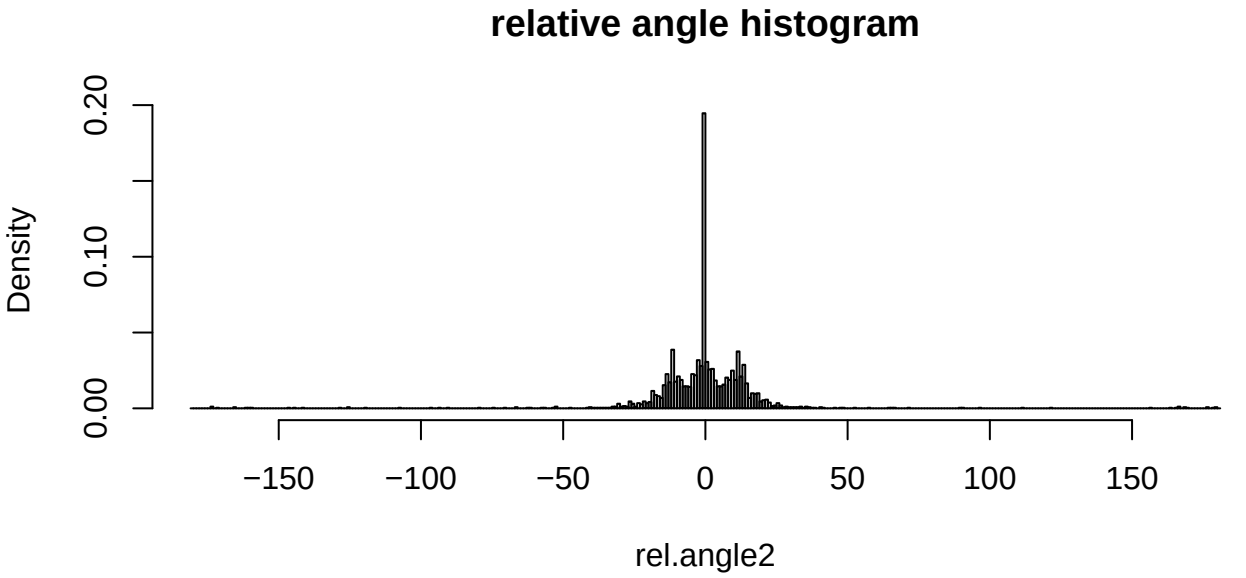

speed average per sec: 186_CS_HS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

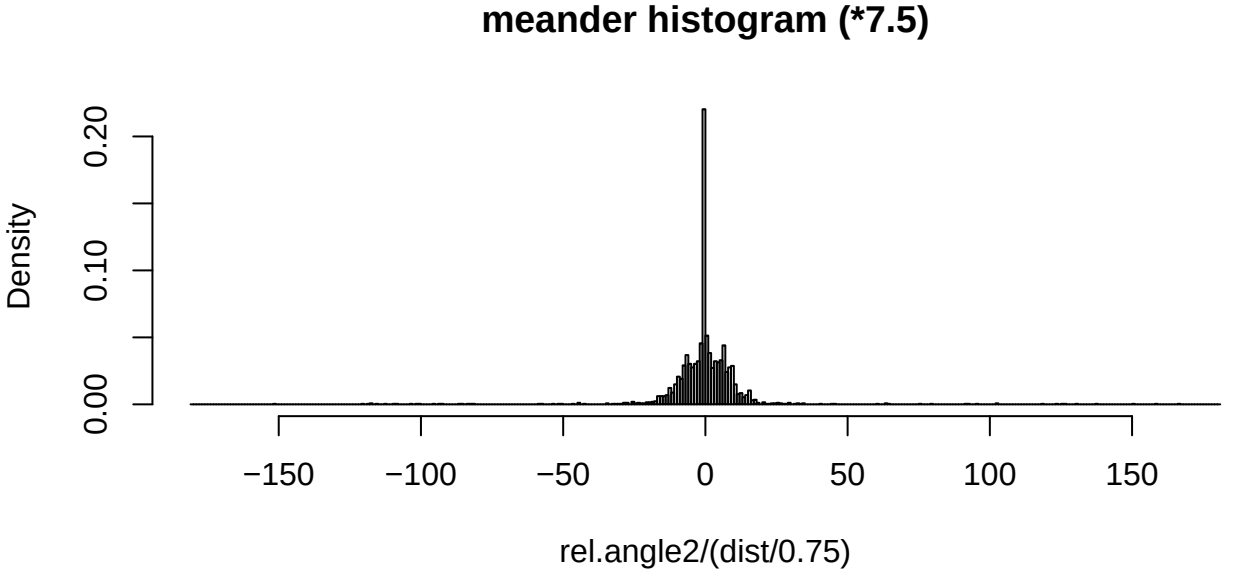

speed average per sec: 186_CS_HS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

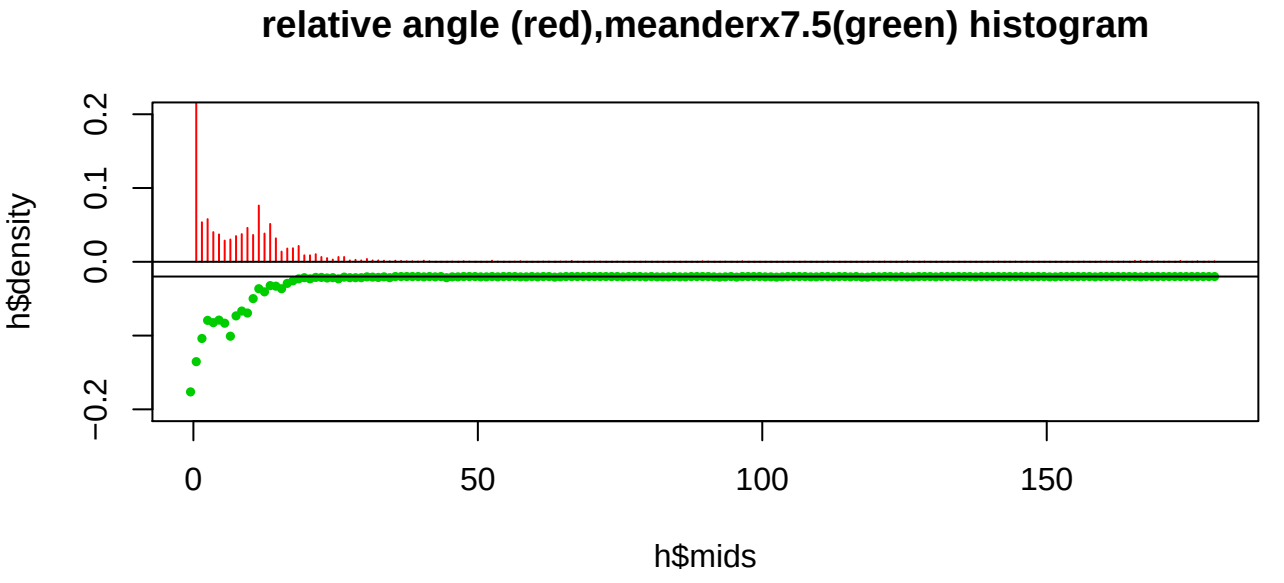

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

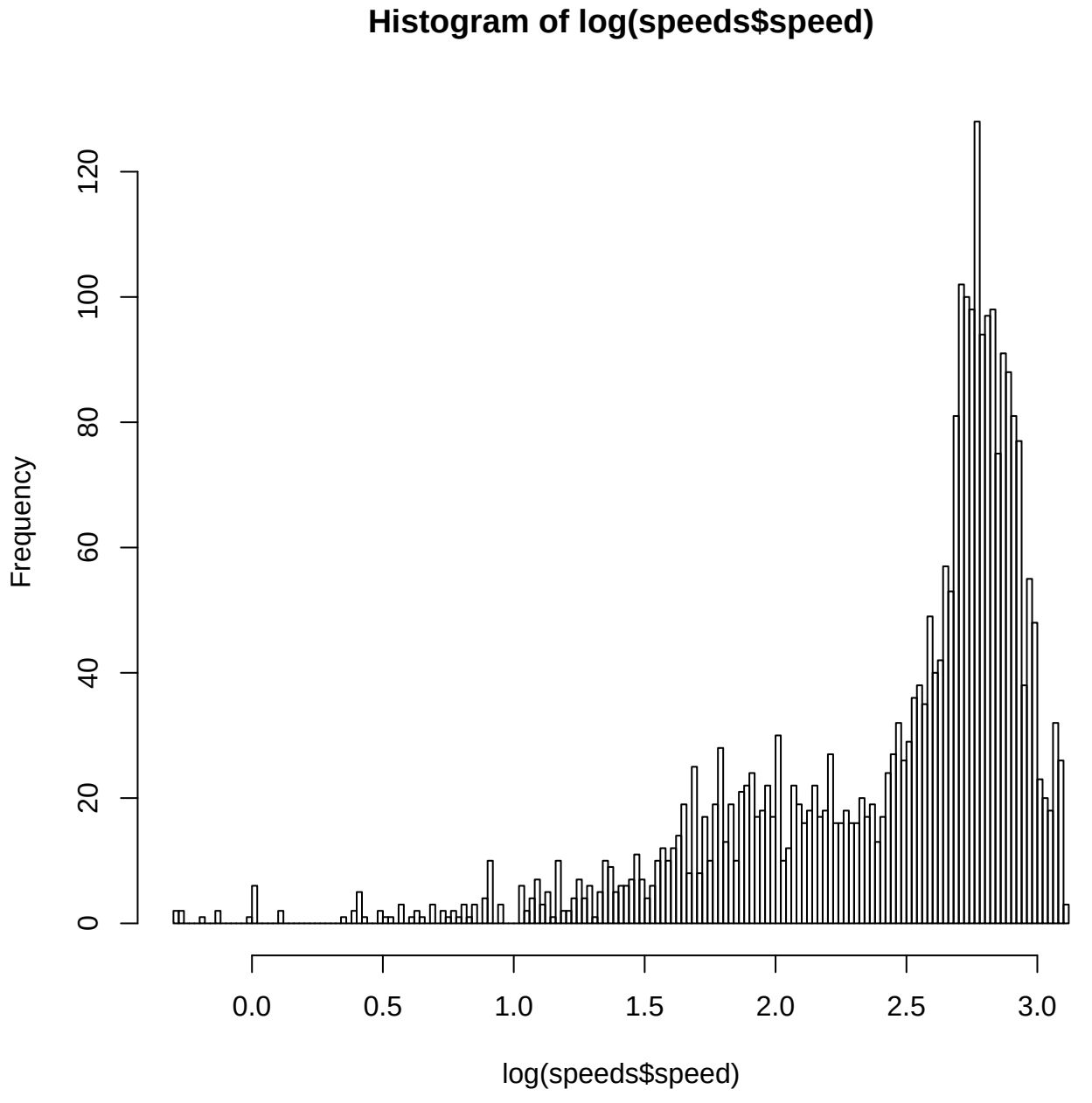

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

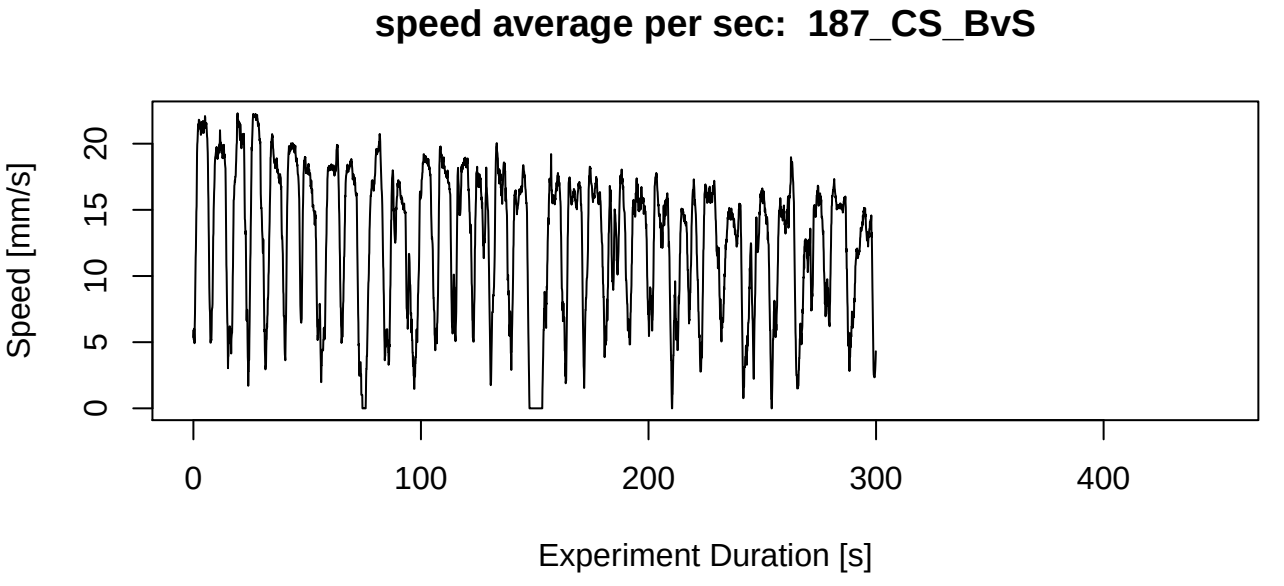

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

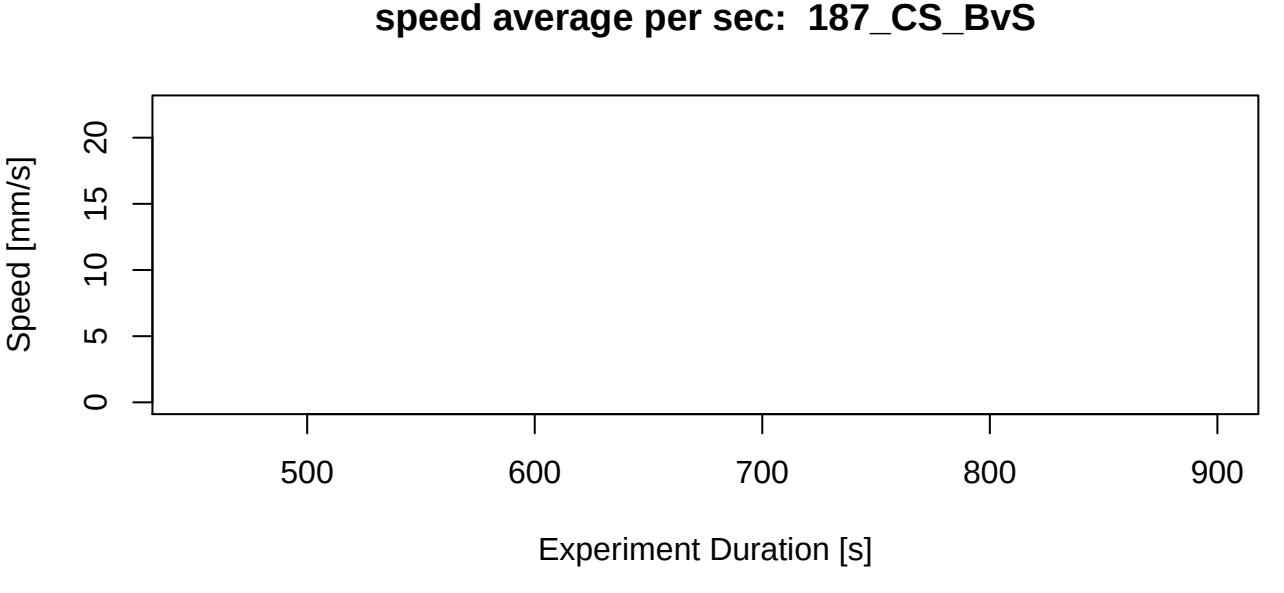

relative angle histogram
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2

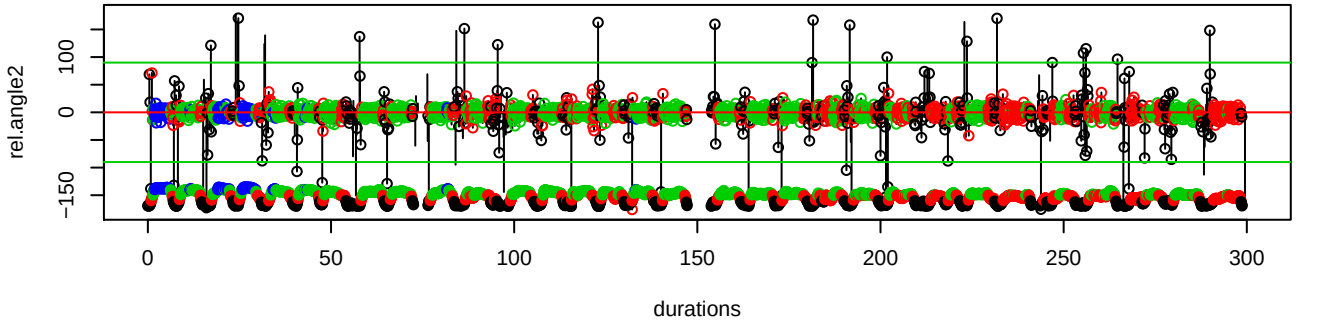

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

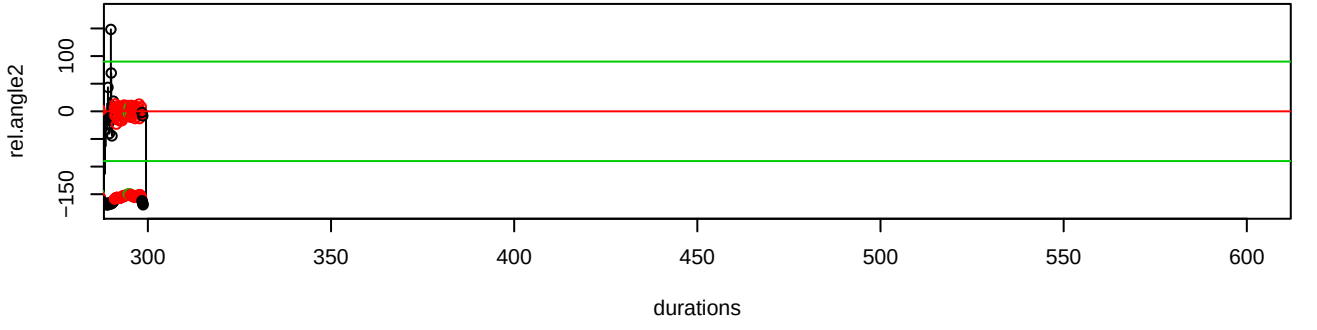

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

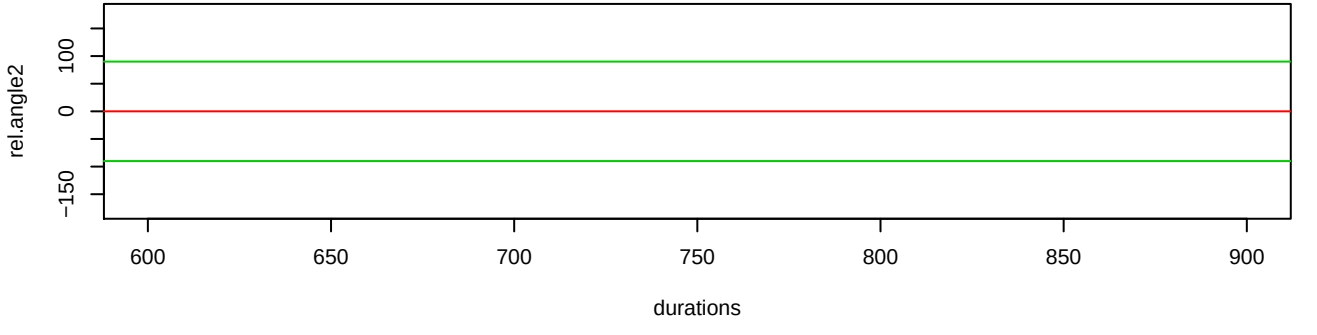

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

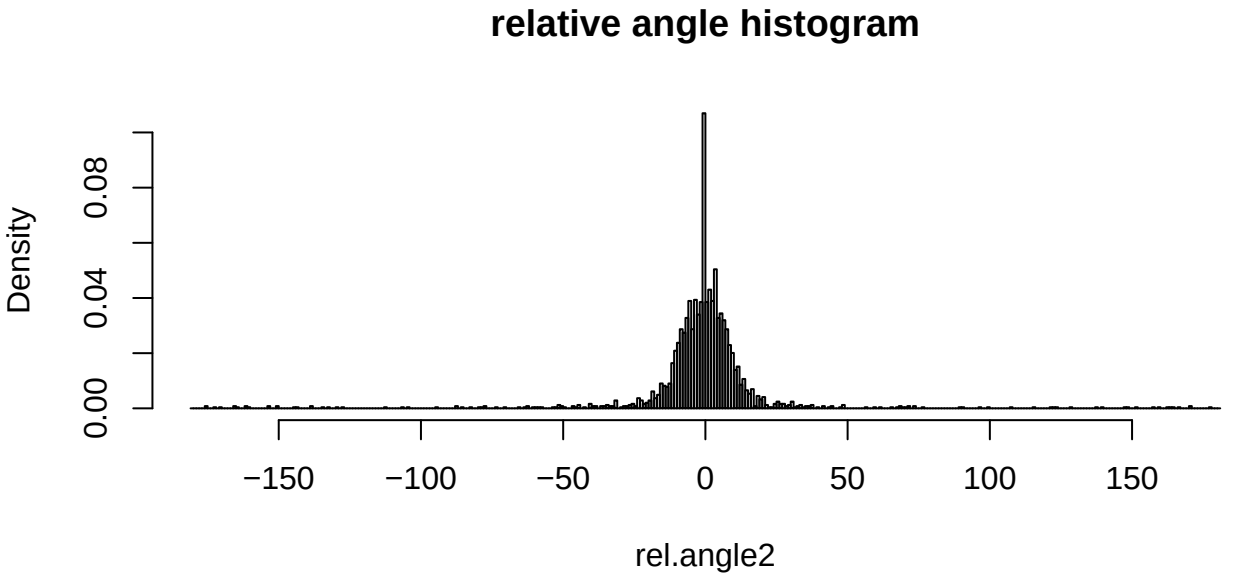

speed average per sec: 187_CS_BvS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

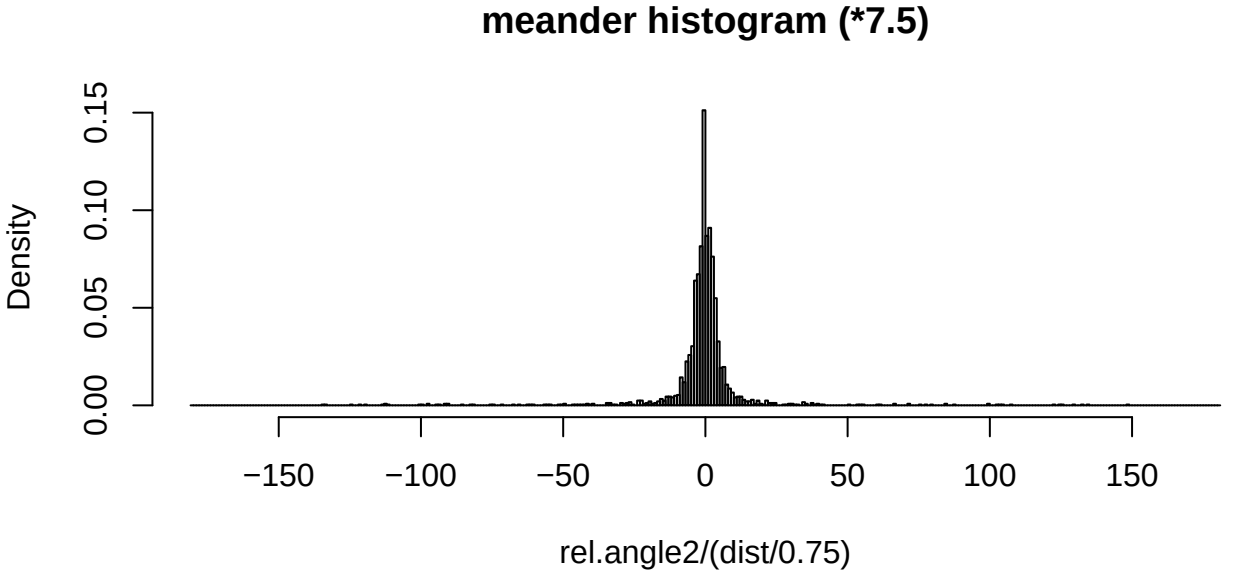

speed average per sec: 187_CS_BvS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

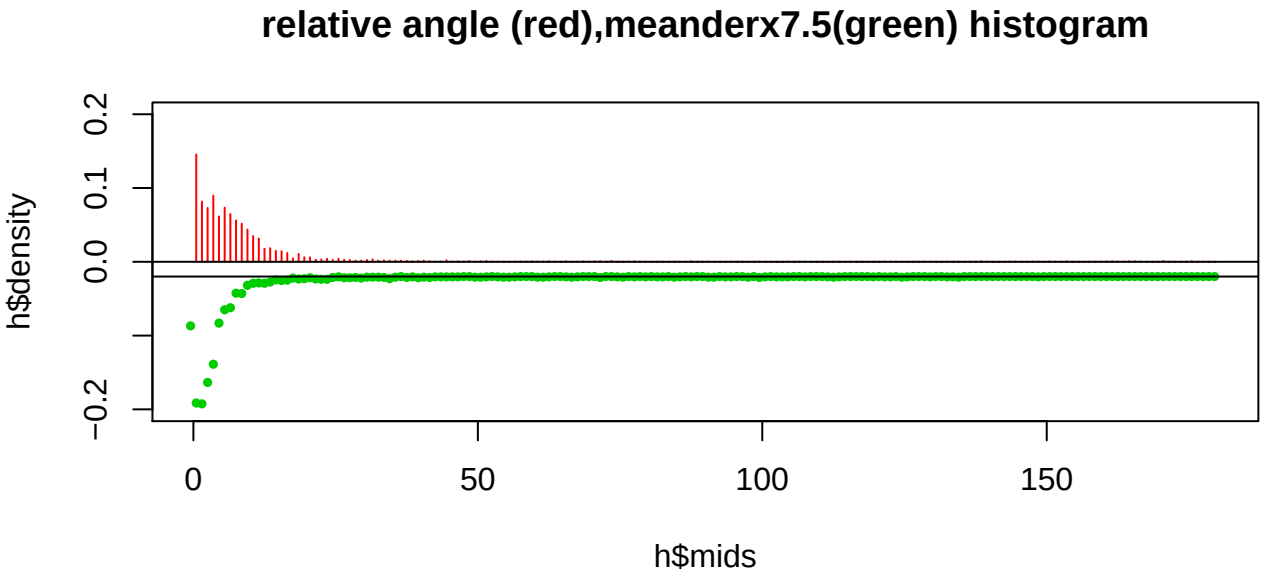

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

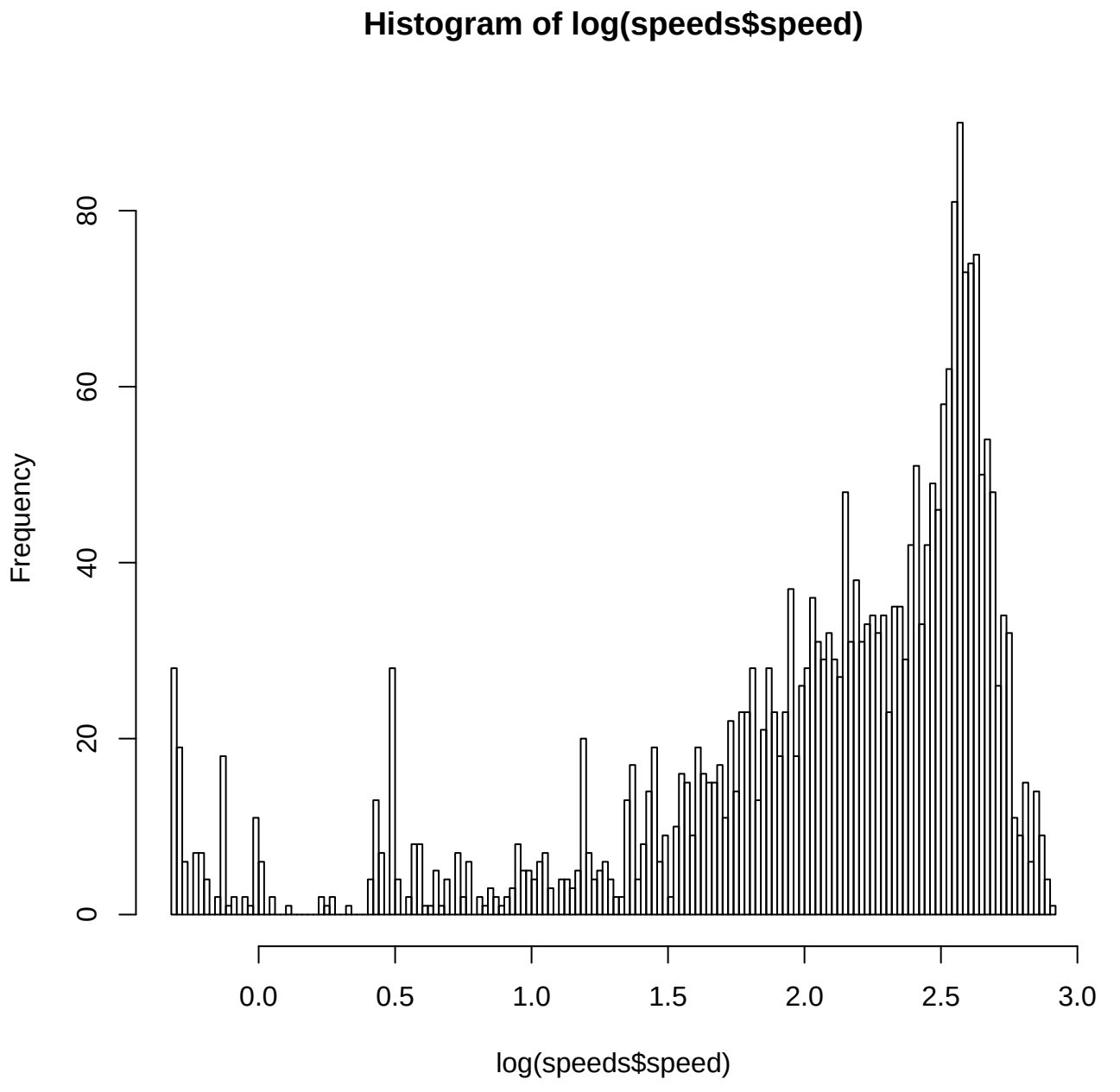

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

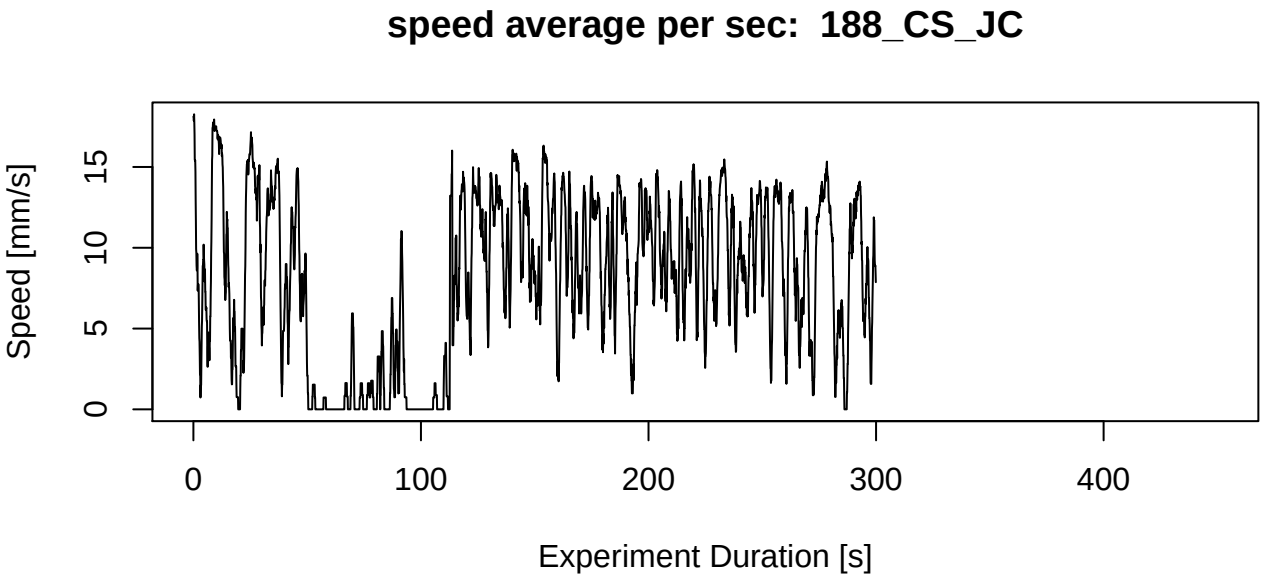

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

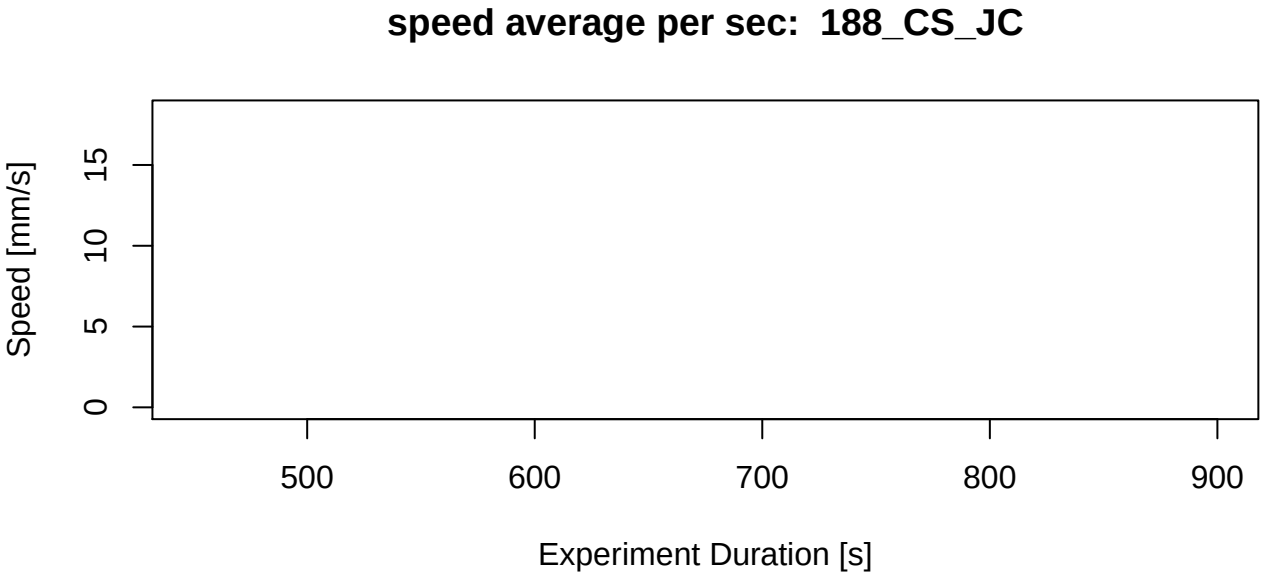

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

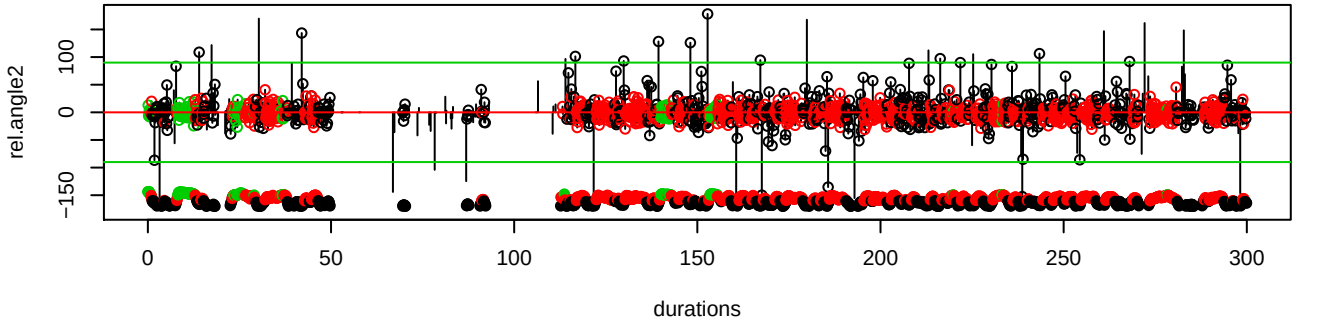

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

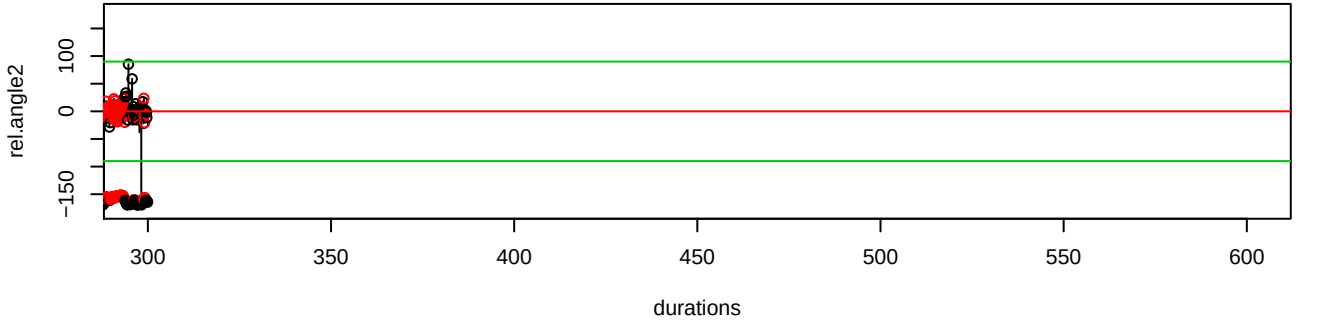

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

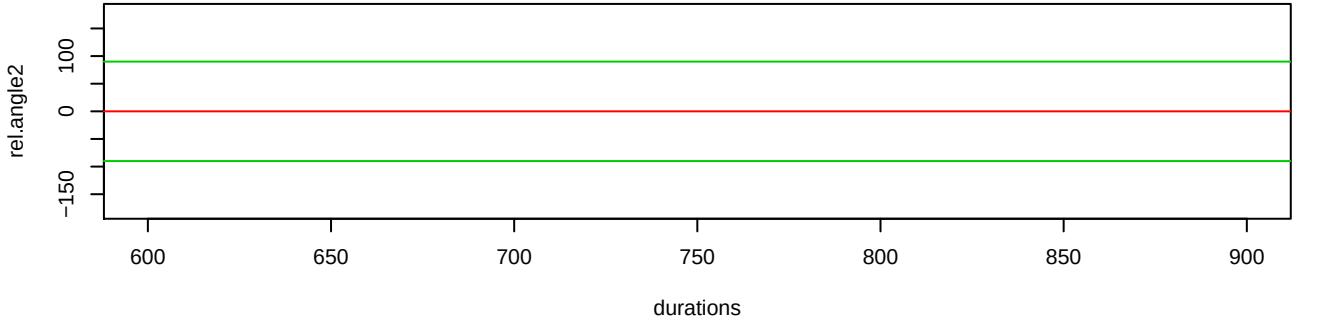

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

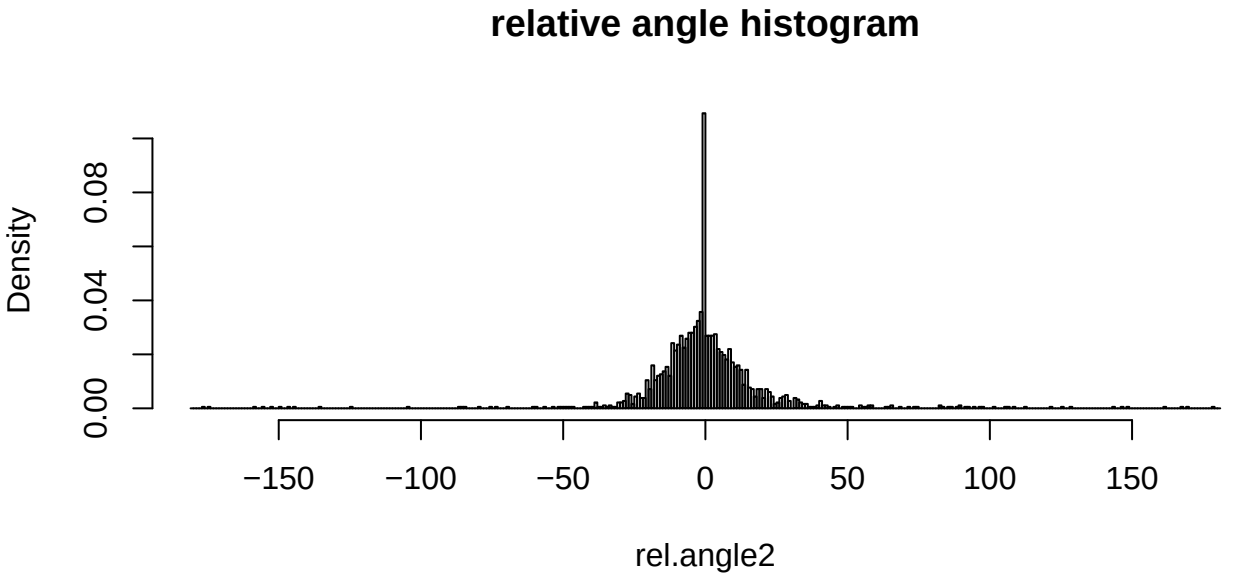

speed average per sec: 188_CS_JC
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

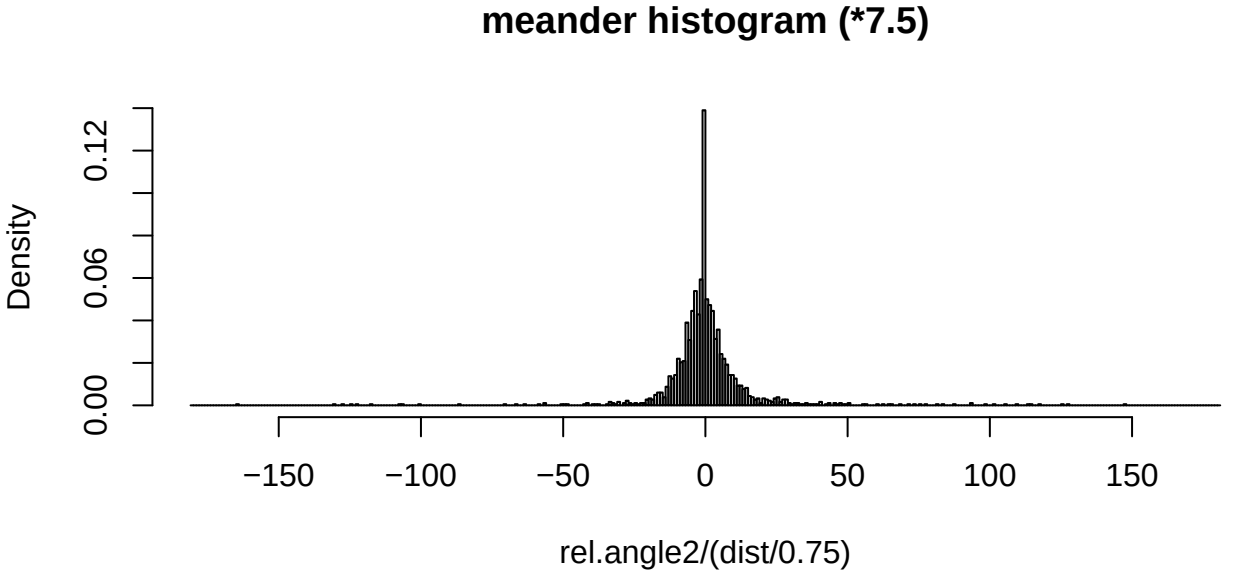

speed average per sec: 188_CS_JC
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

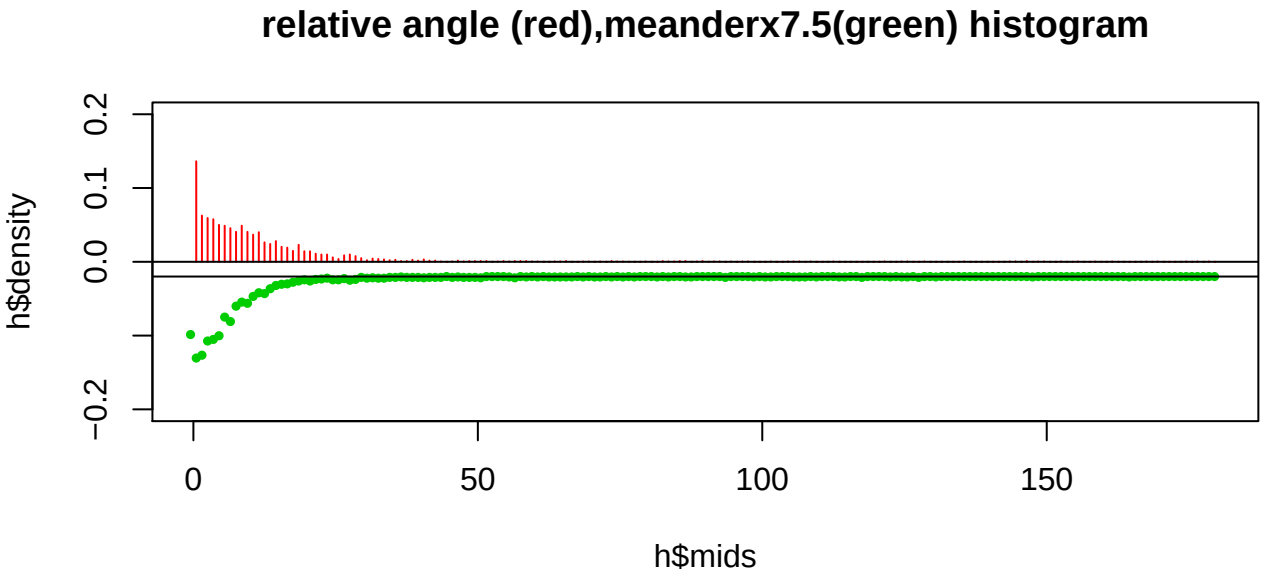

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

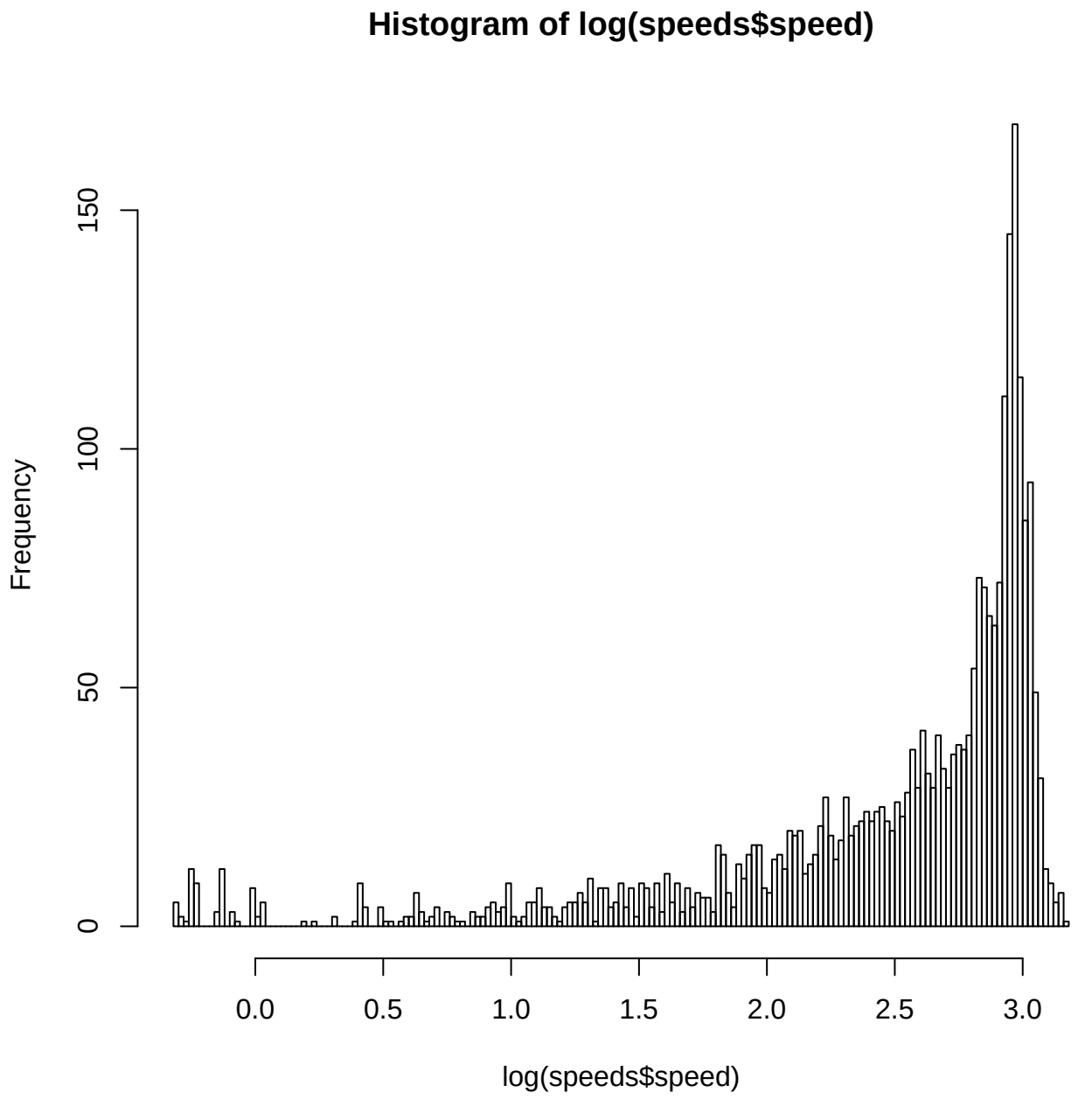

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

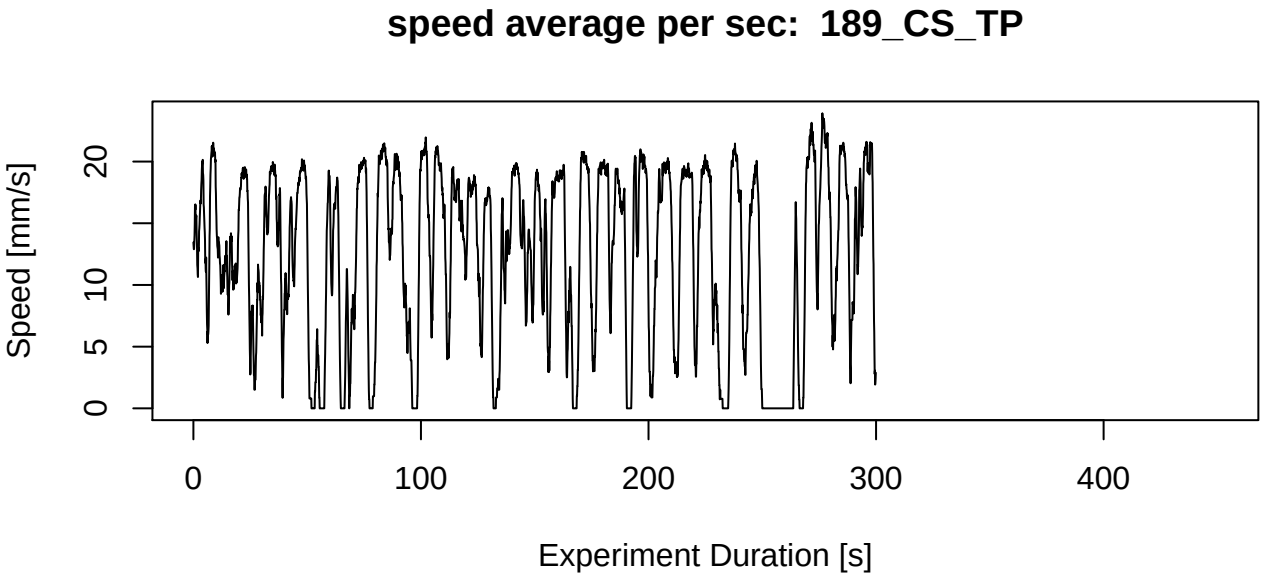

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

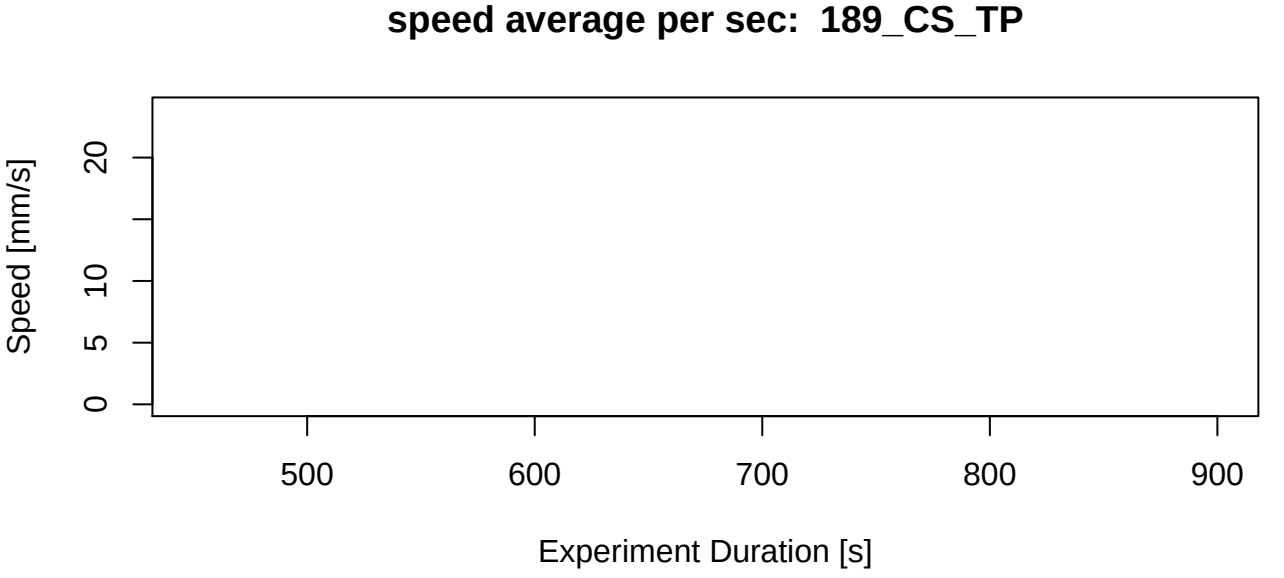

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

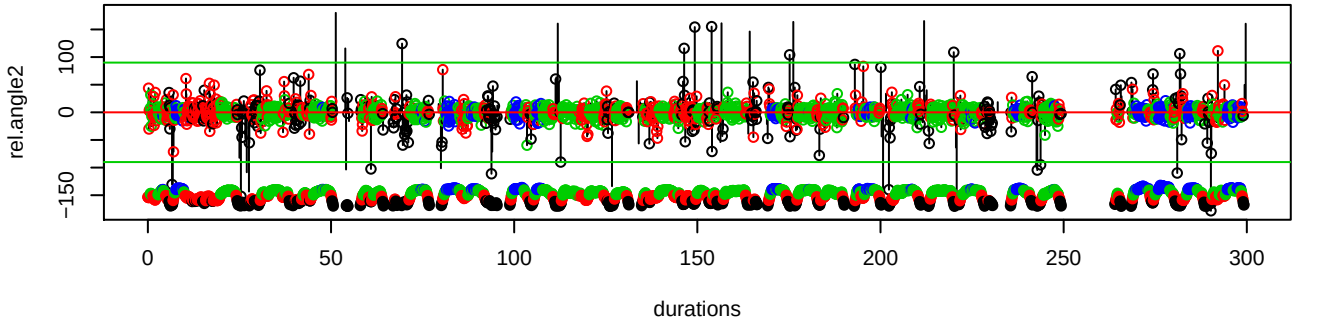

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

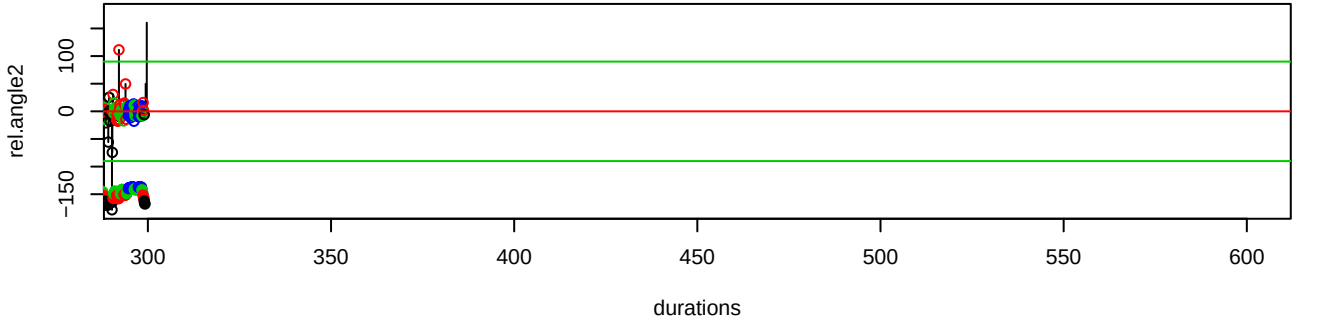

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

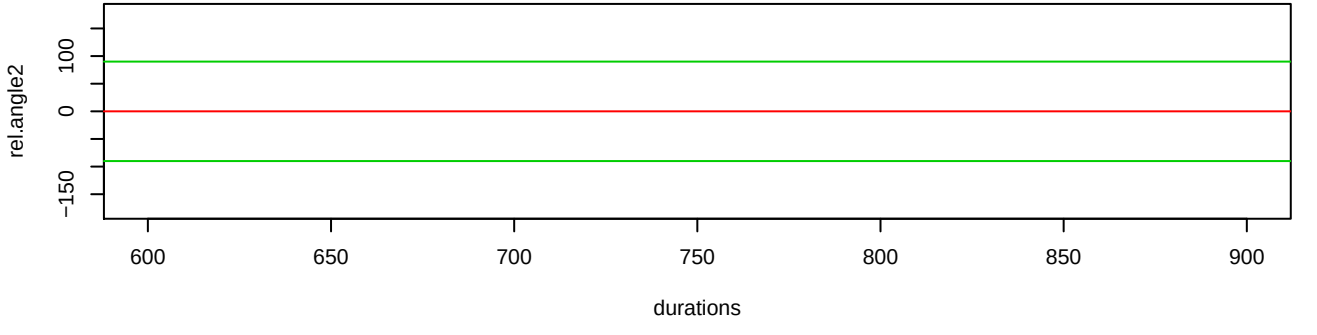

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

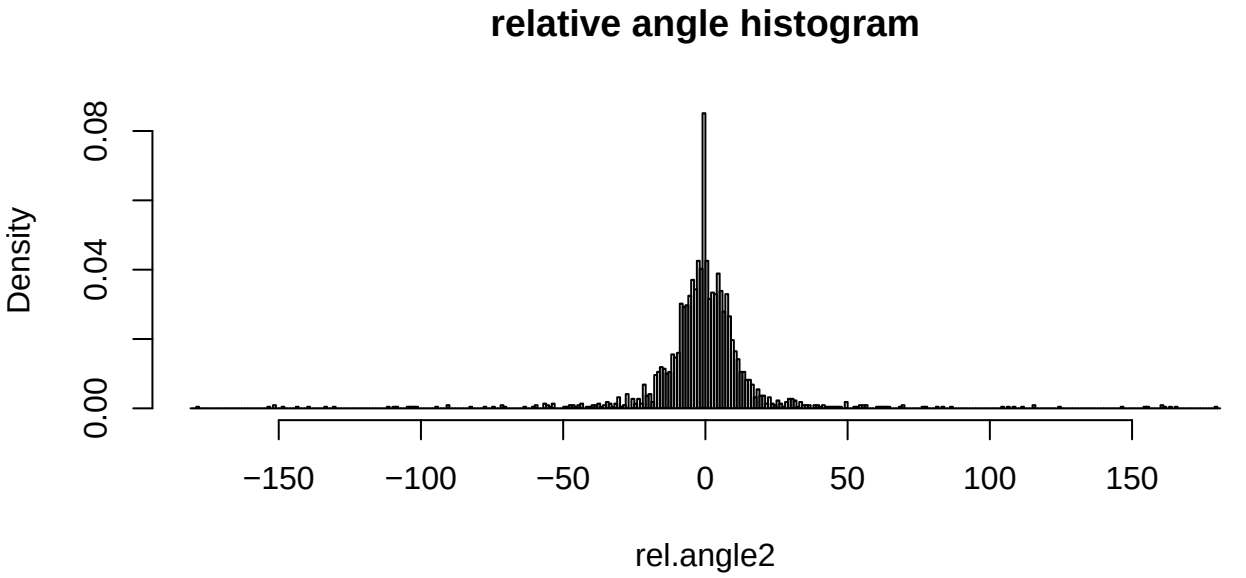

speed average per sec: 189_CS_TP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

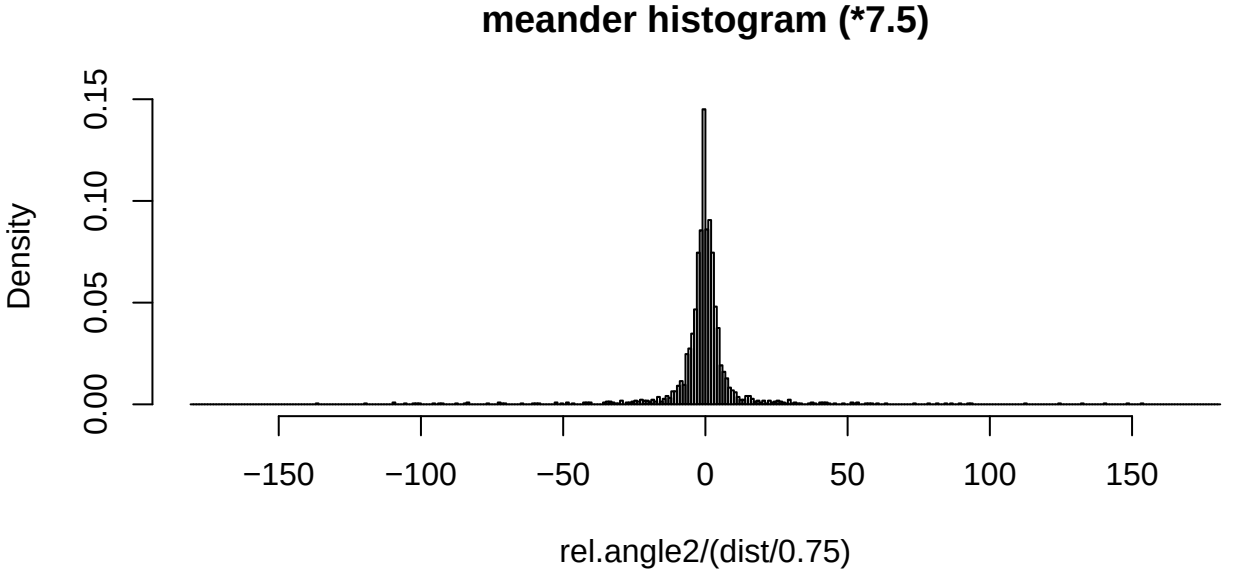

speed average per sec: 189_CS_TP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

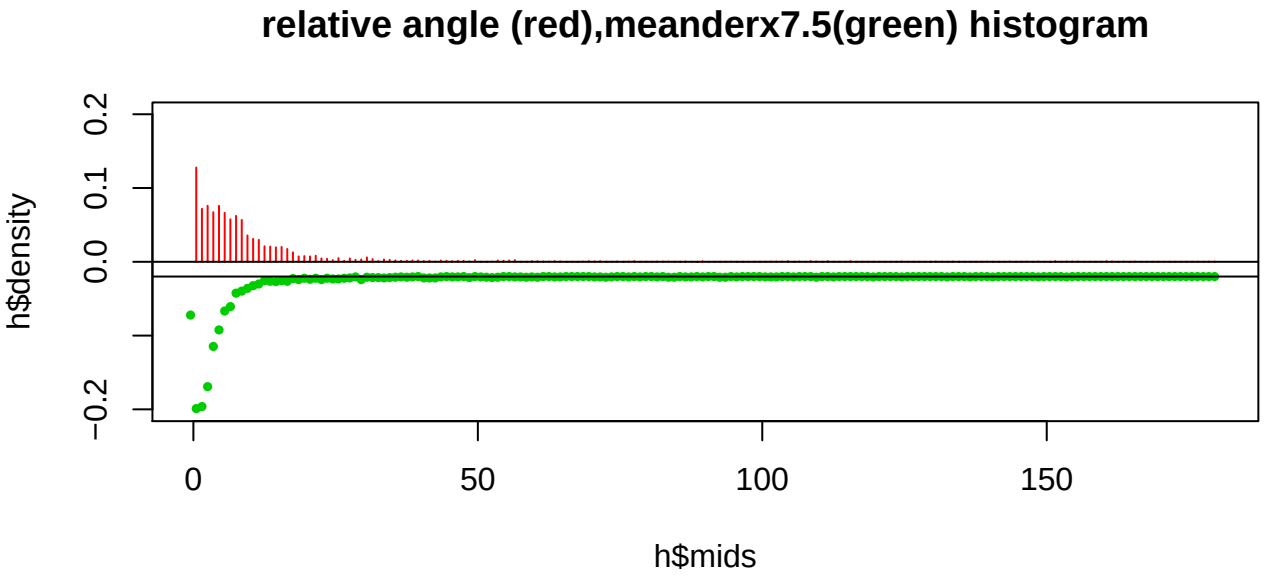

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

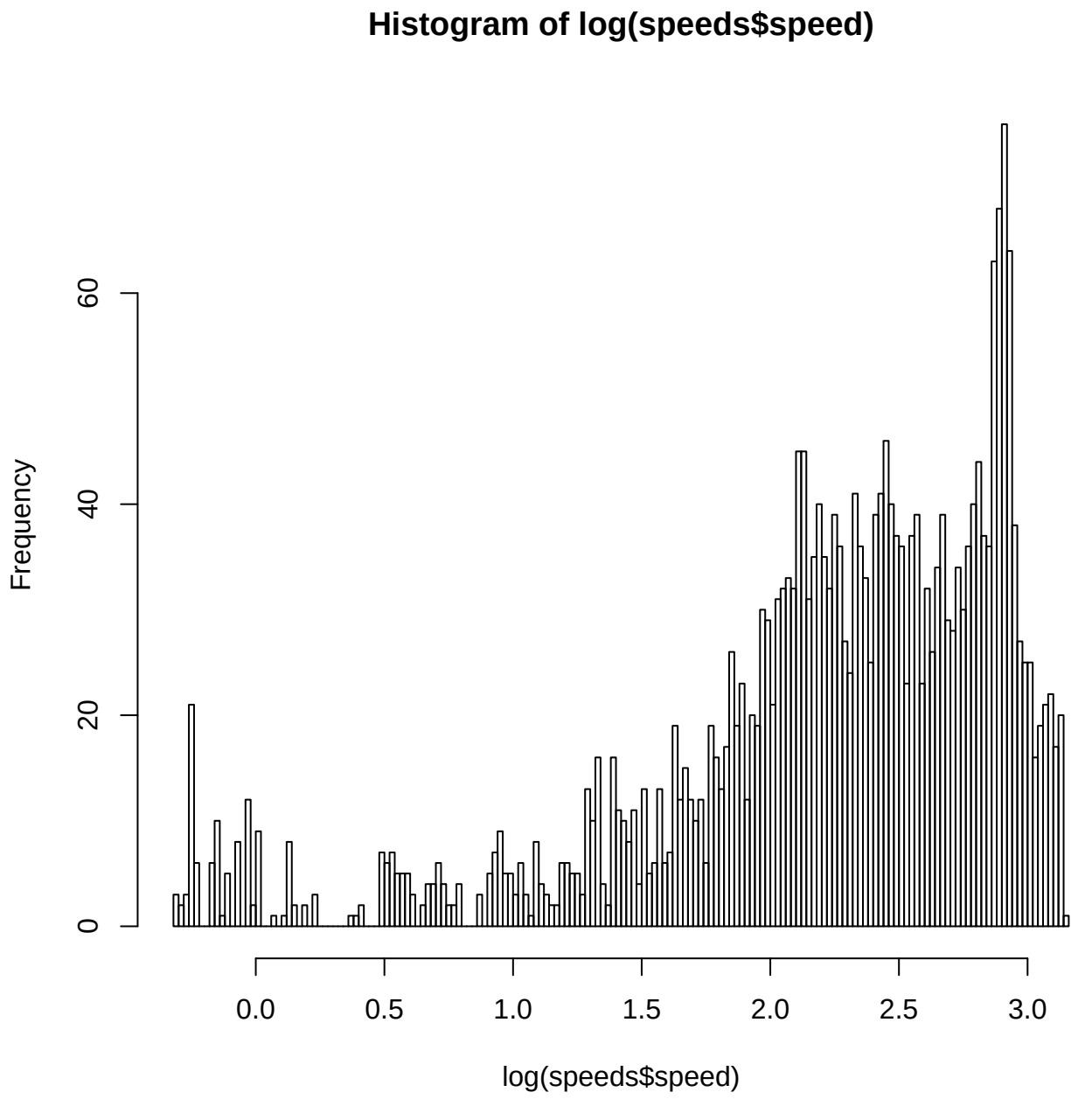

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

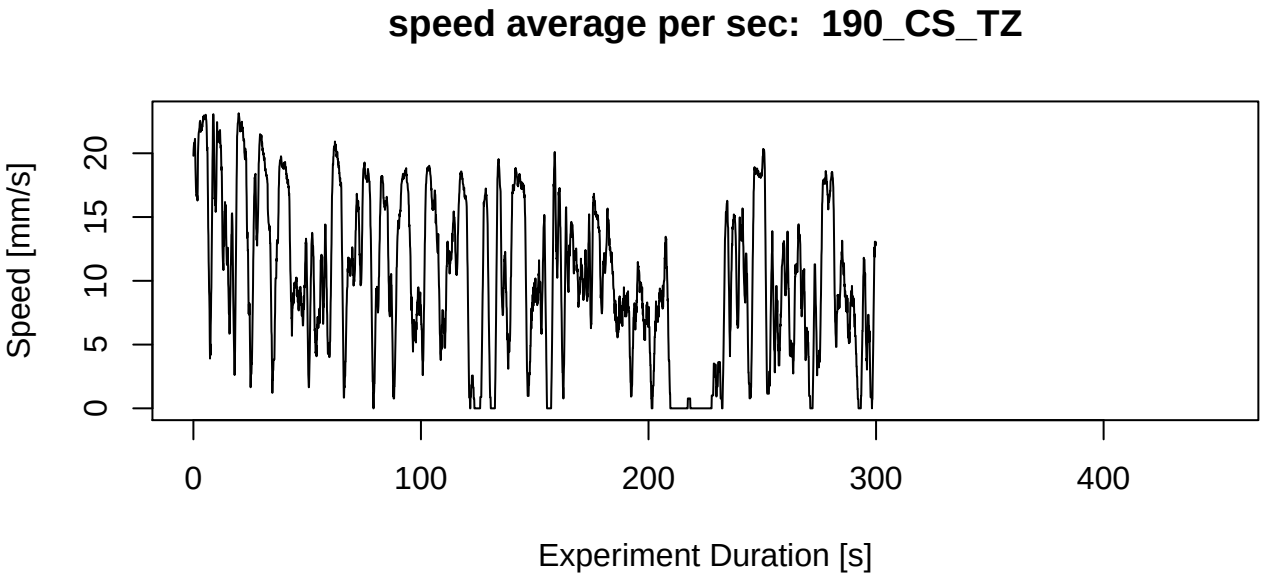

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

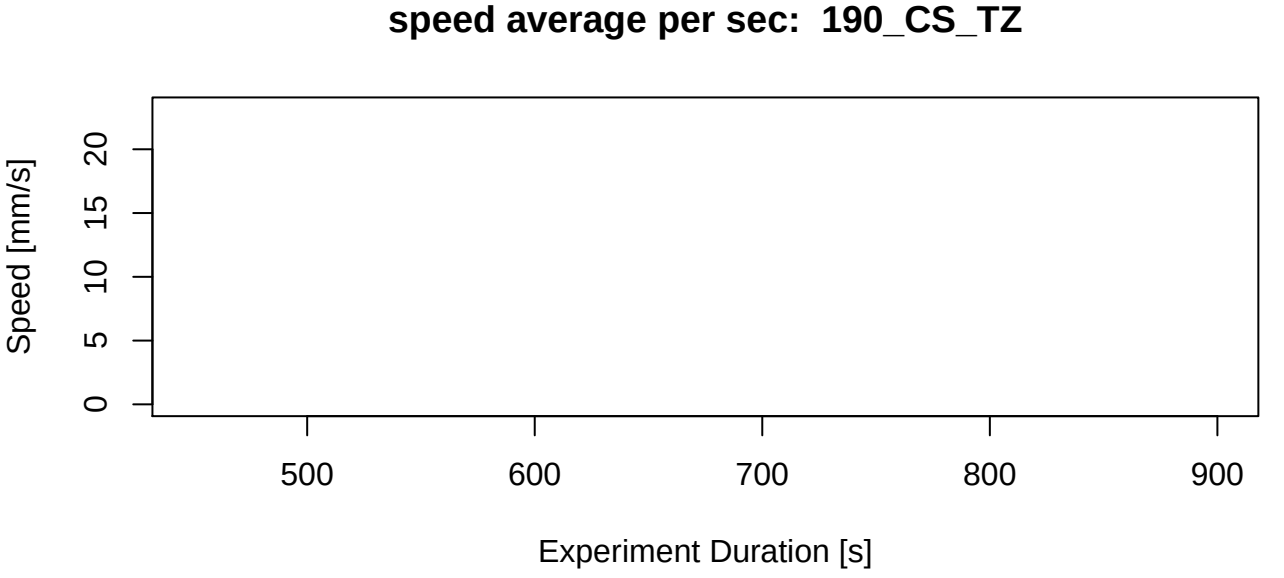

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

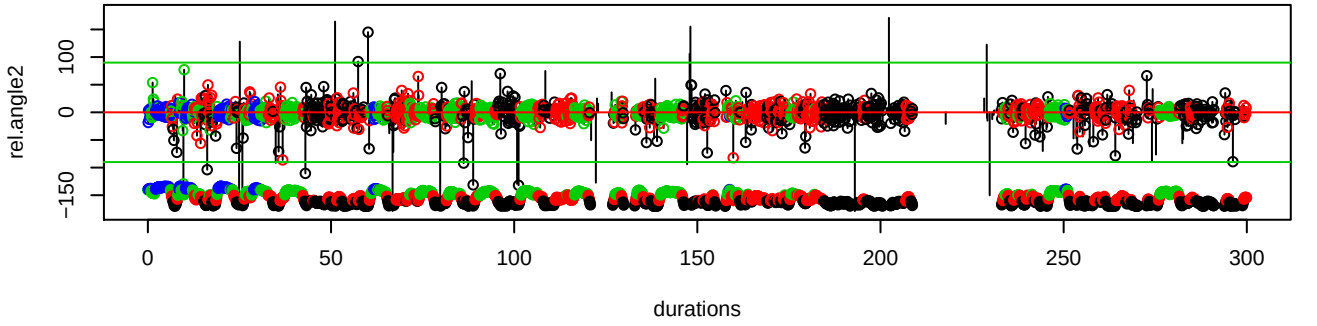

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

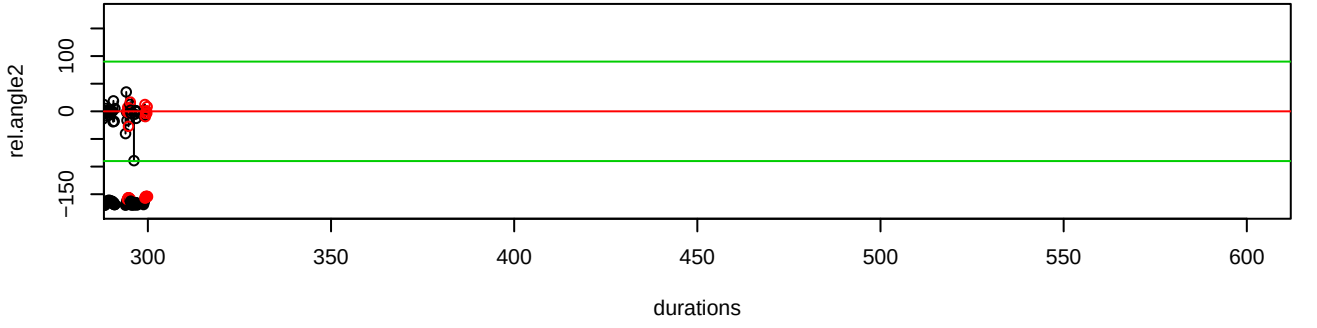

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

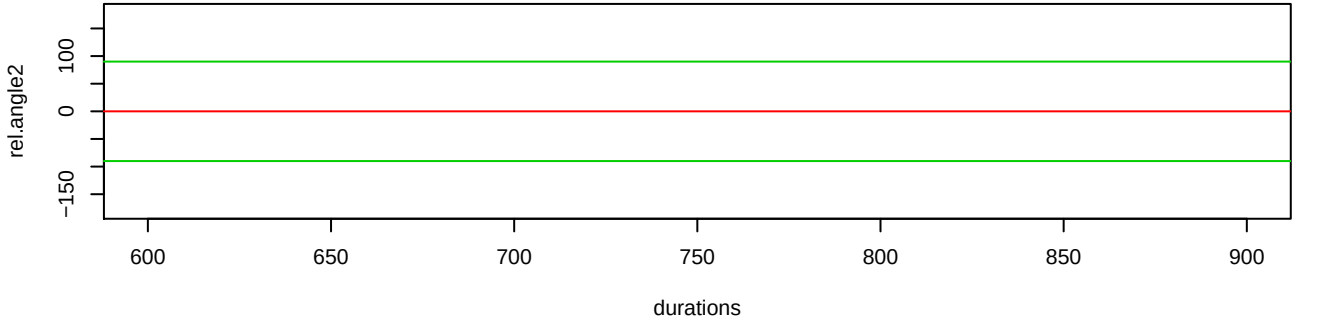

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

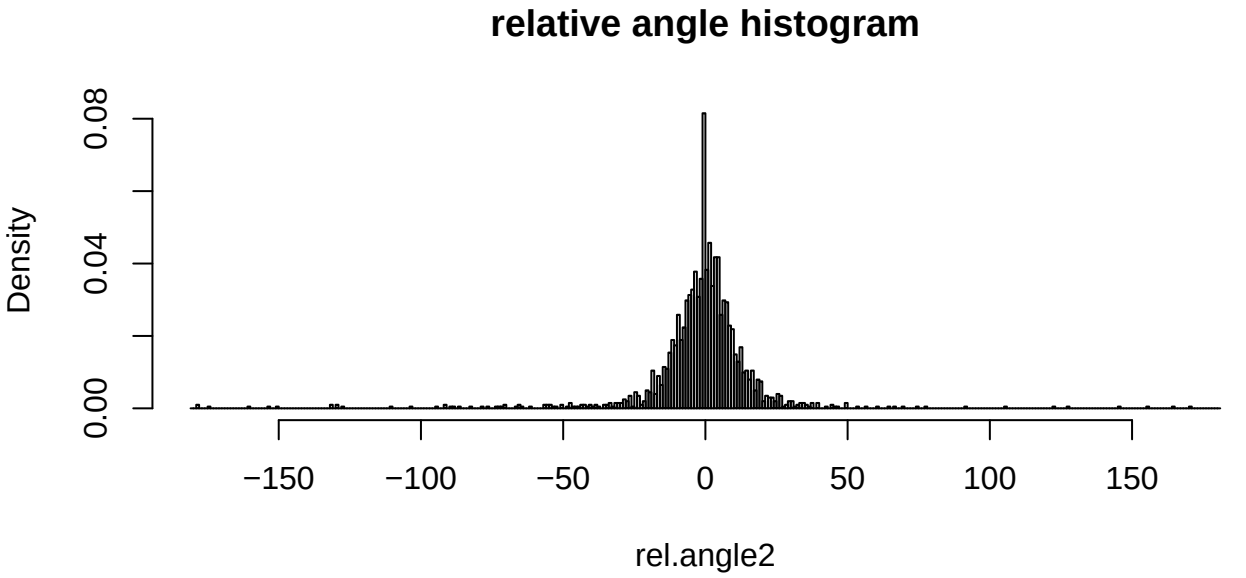

speed average per sec: 190_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

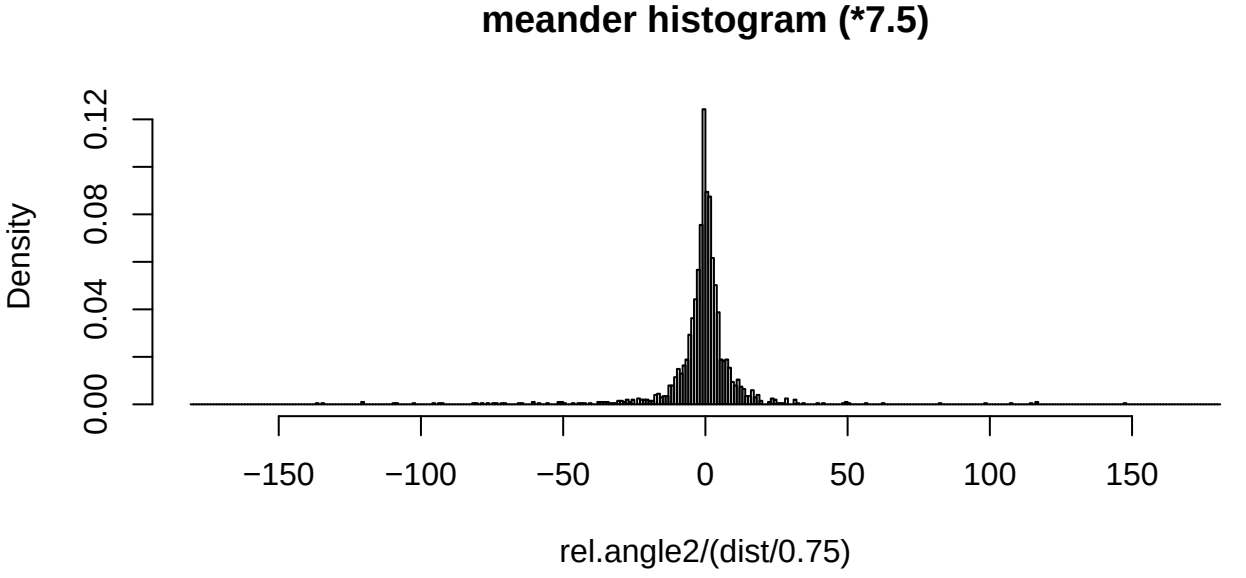

speed average per sec: 190_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

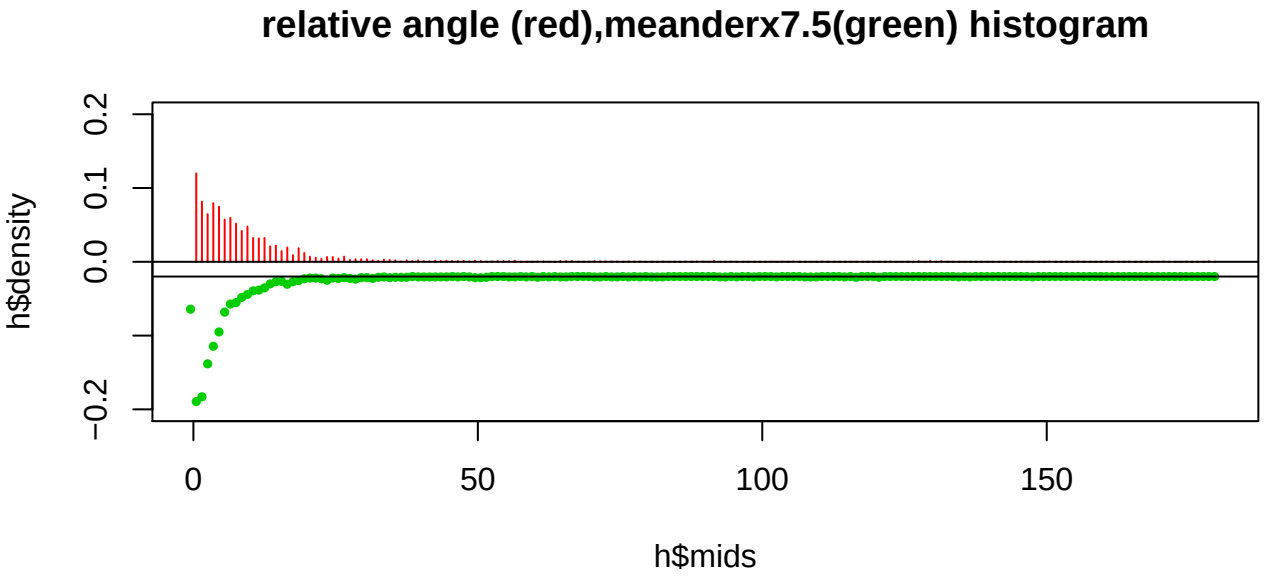

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

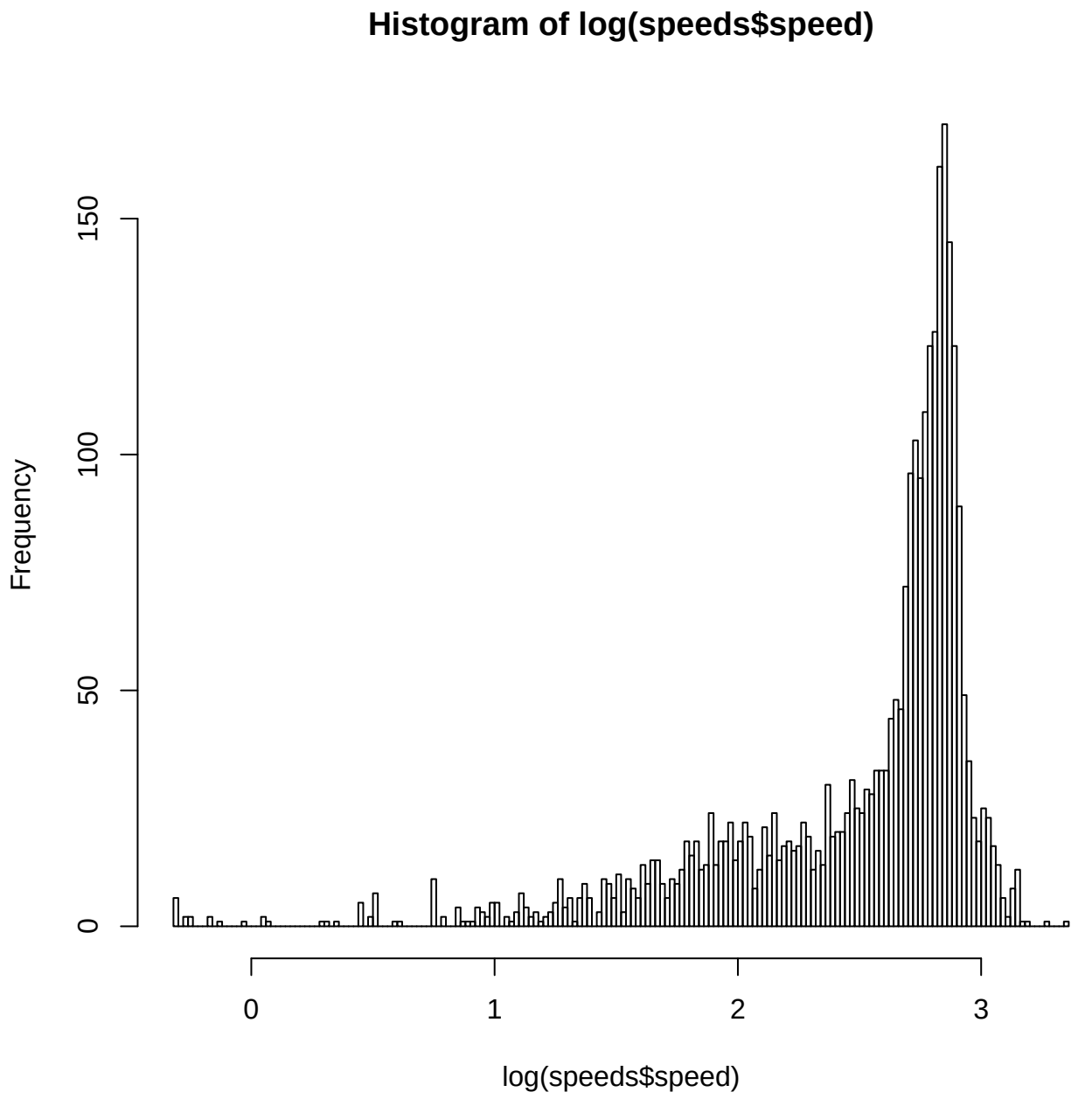

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

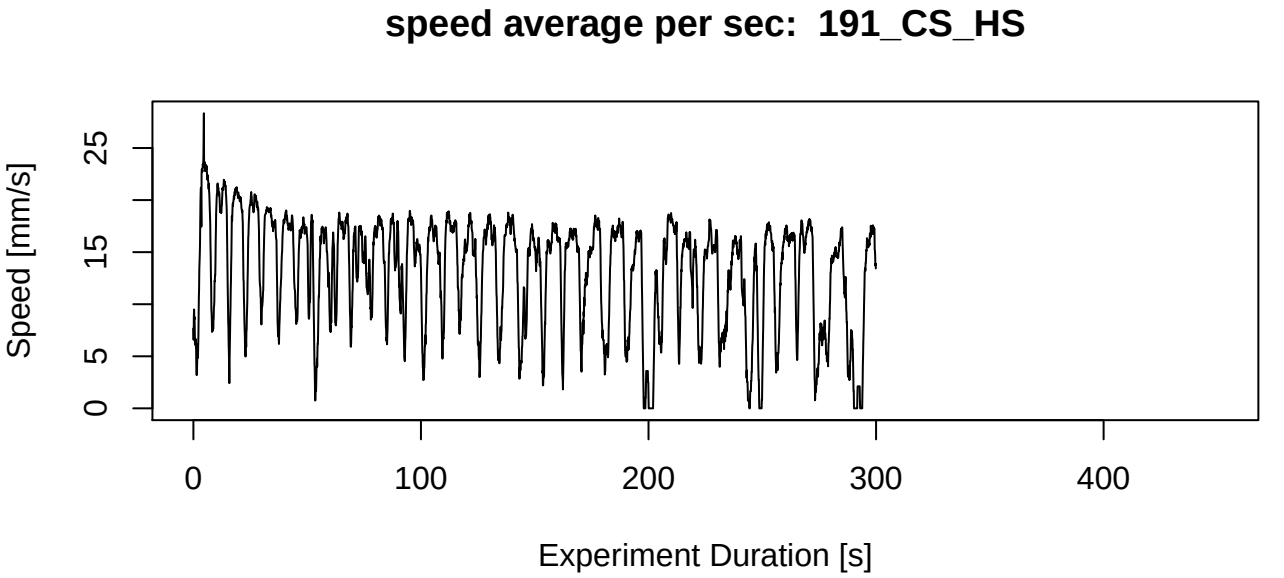

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

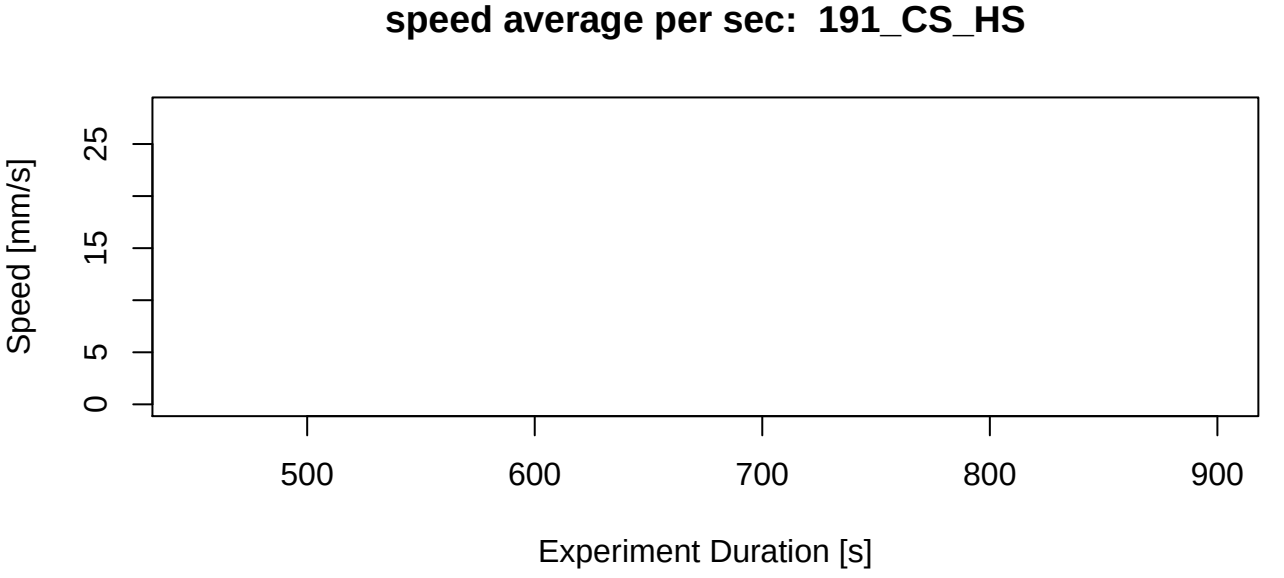

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

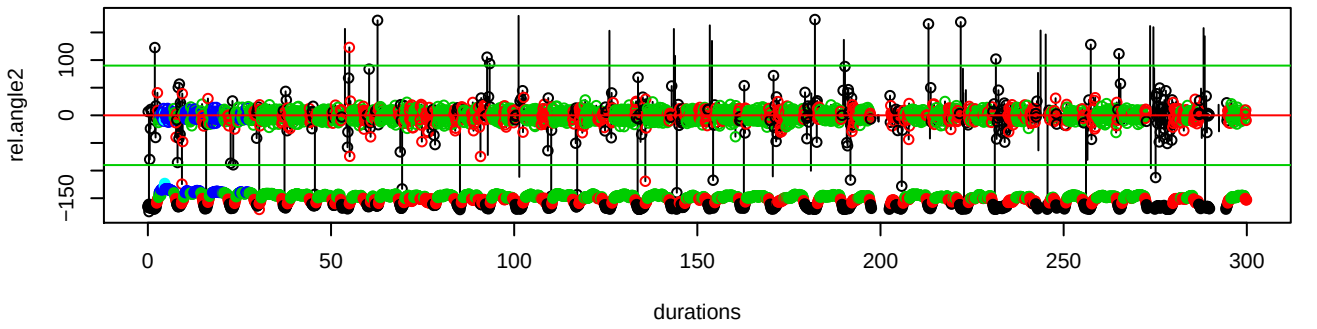

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

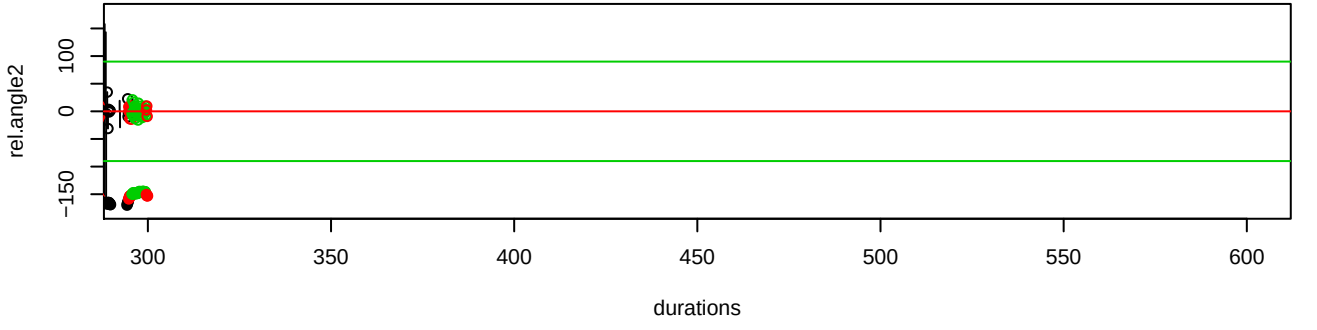

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

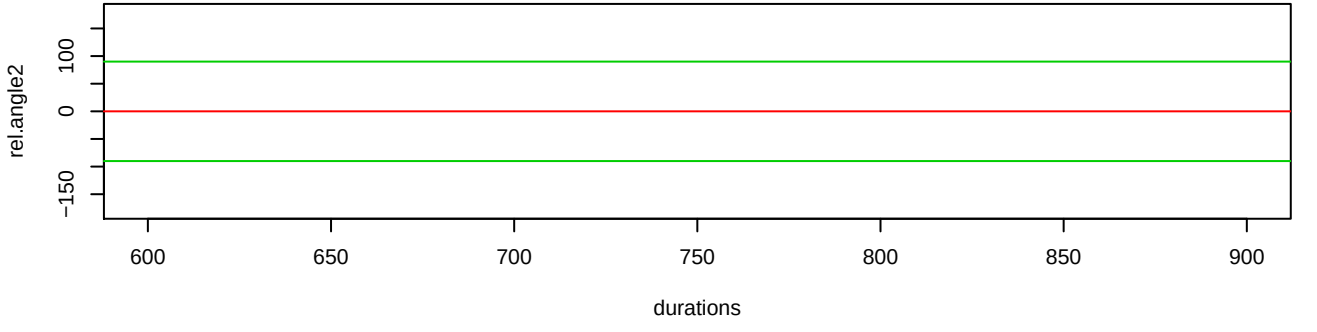

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0
1
2
3
log(speeds$speed)

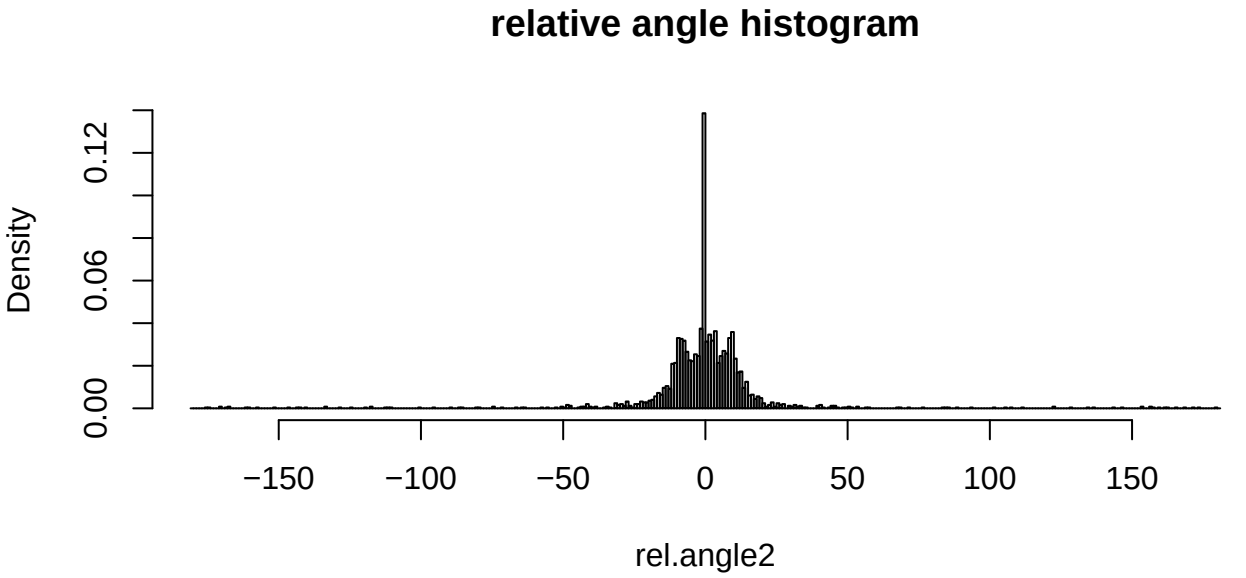

speed average per sec: 191_CS_HS
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

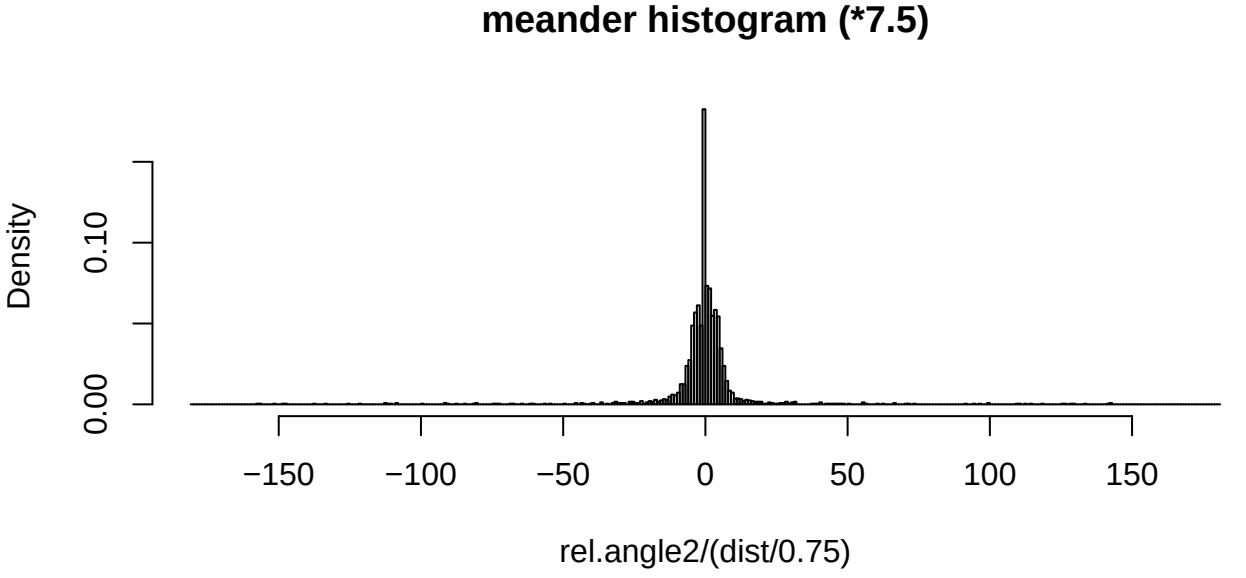

speed average per sec: 191_CS_HS
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

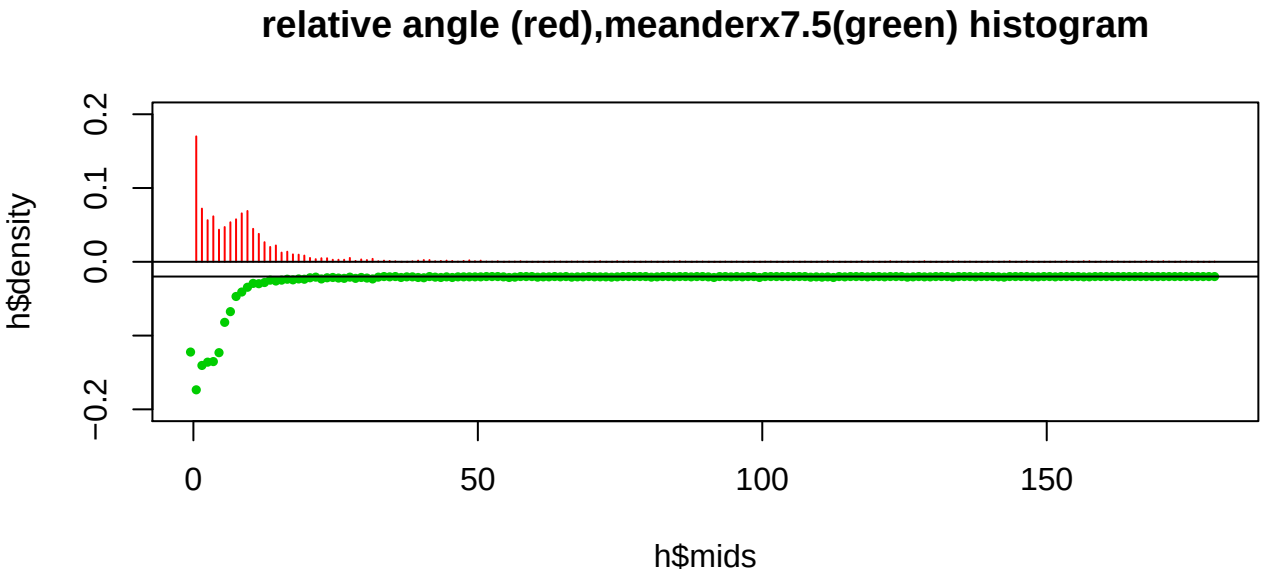

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

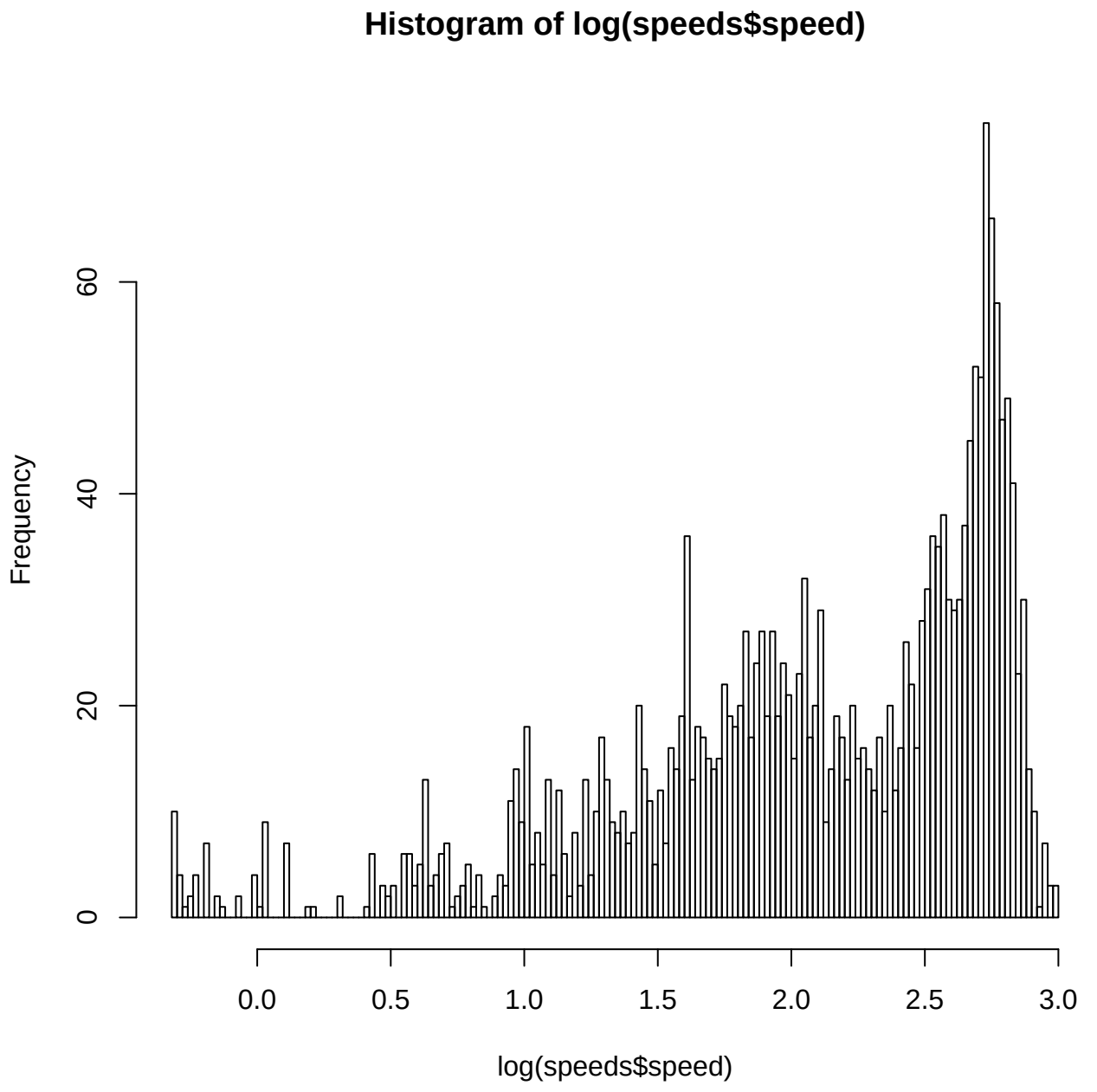

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

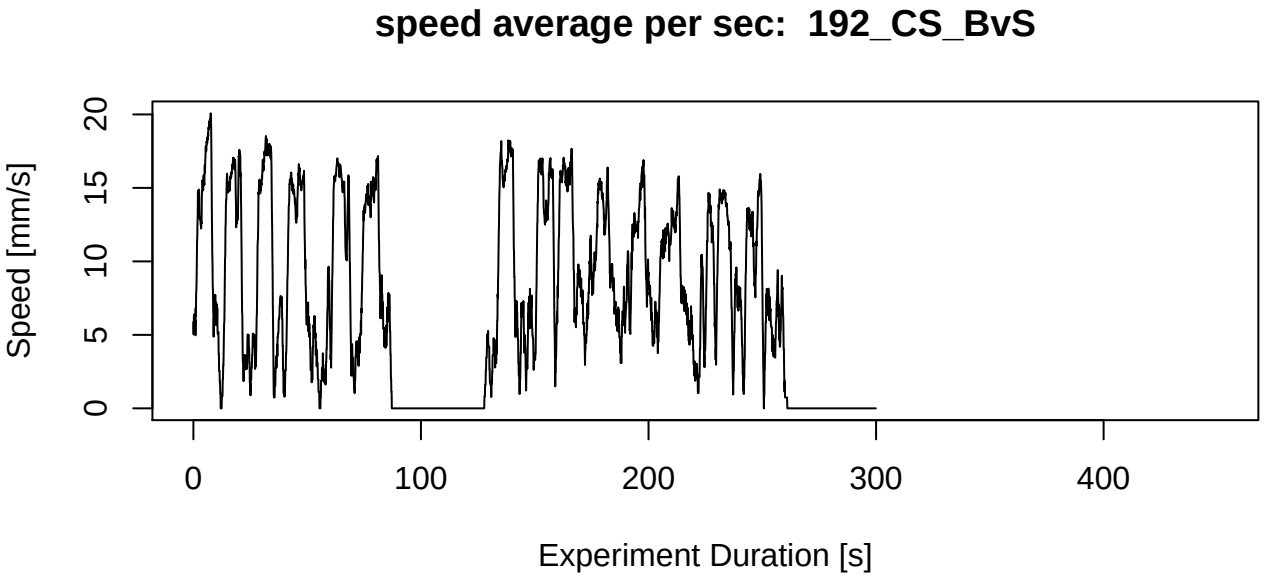

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

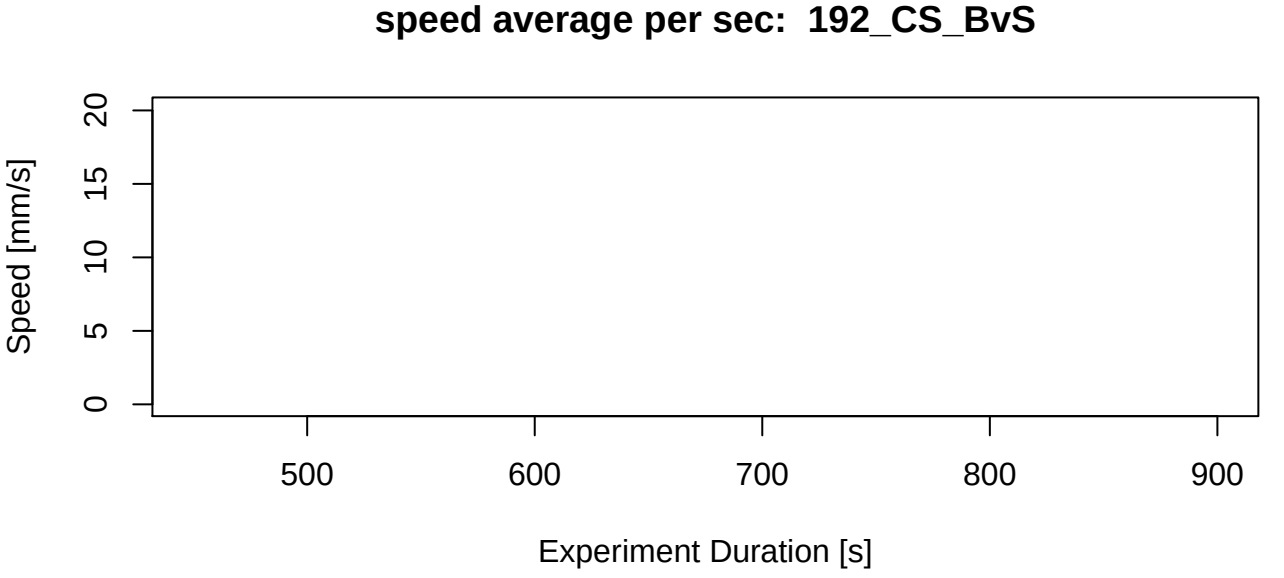

relative angle histogram
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2

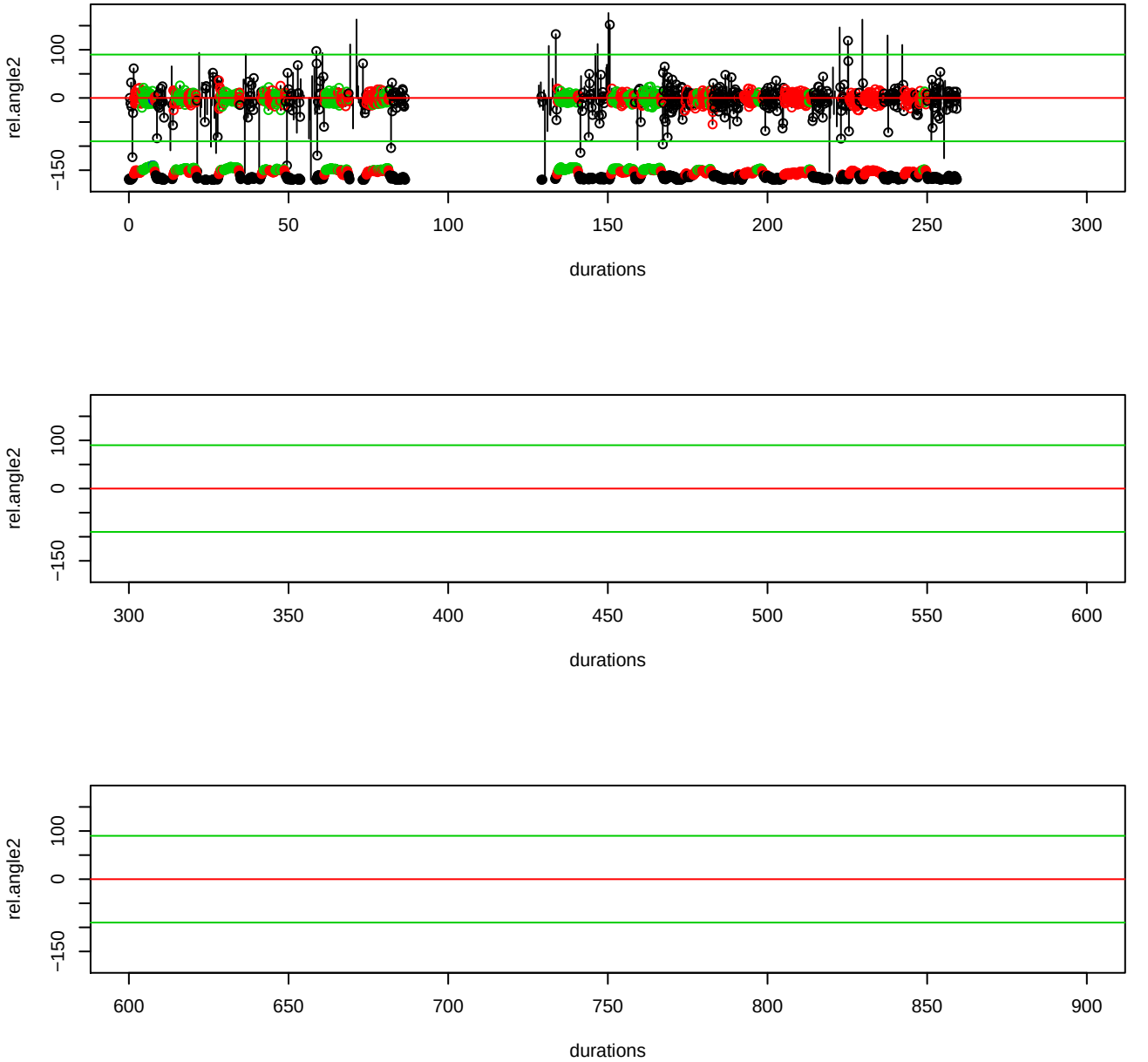

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

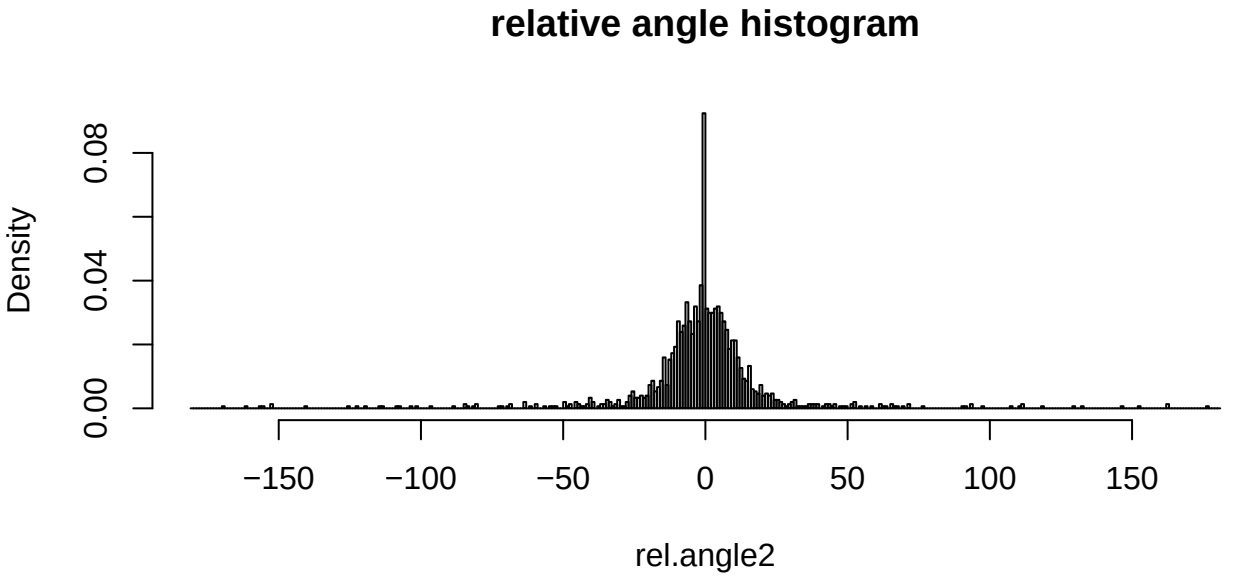

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

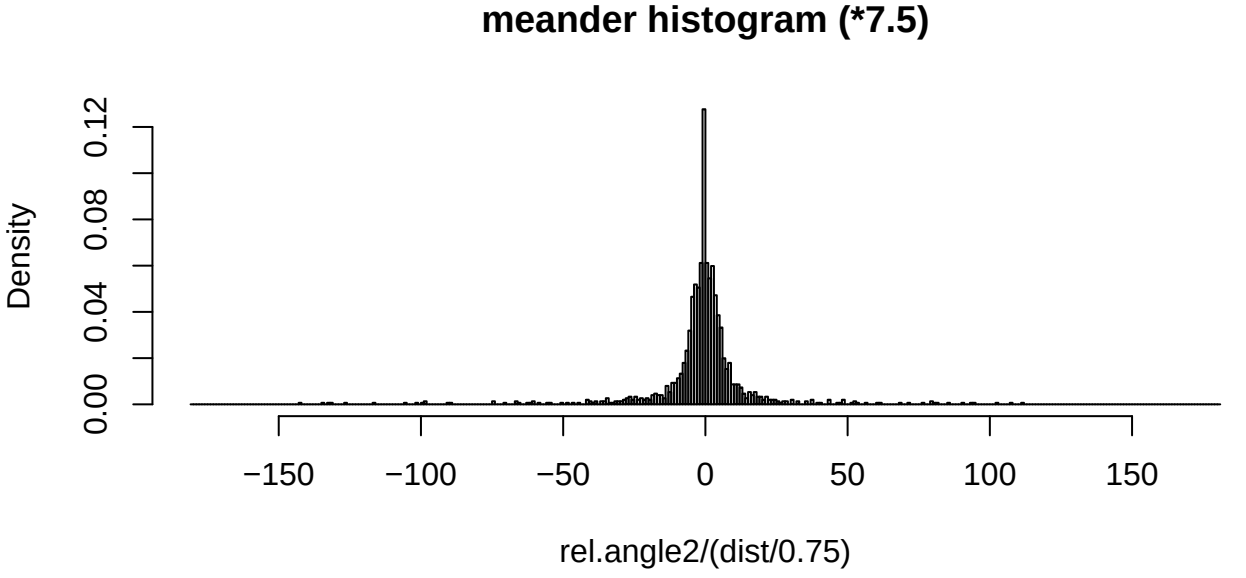

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

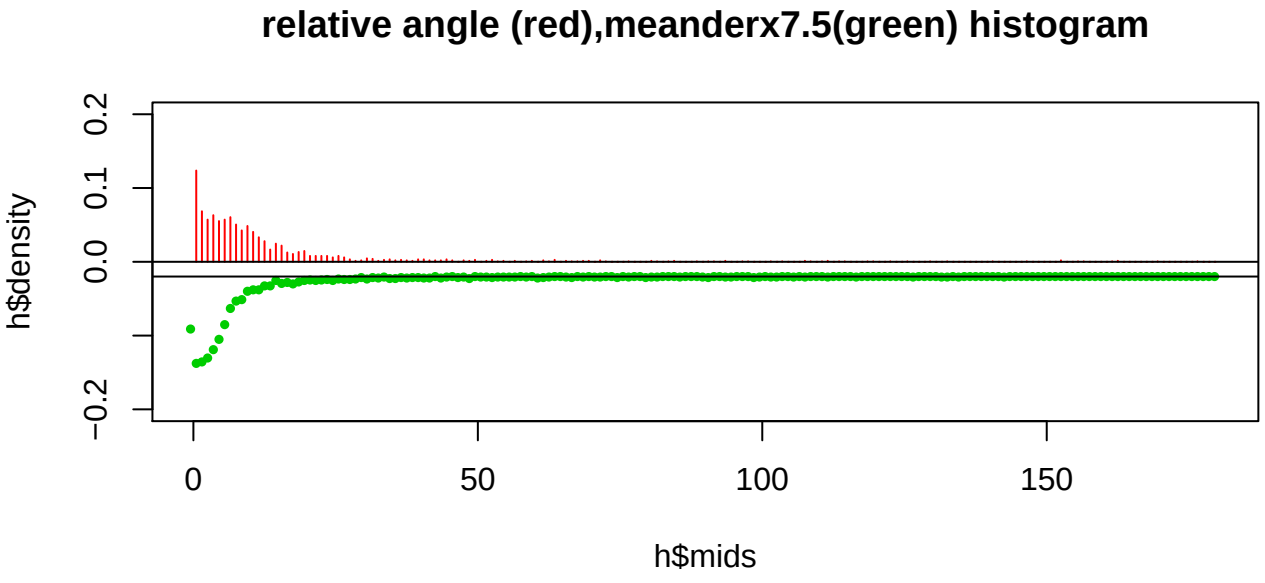

speed average per sec: 192_CS_BvS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

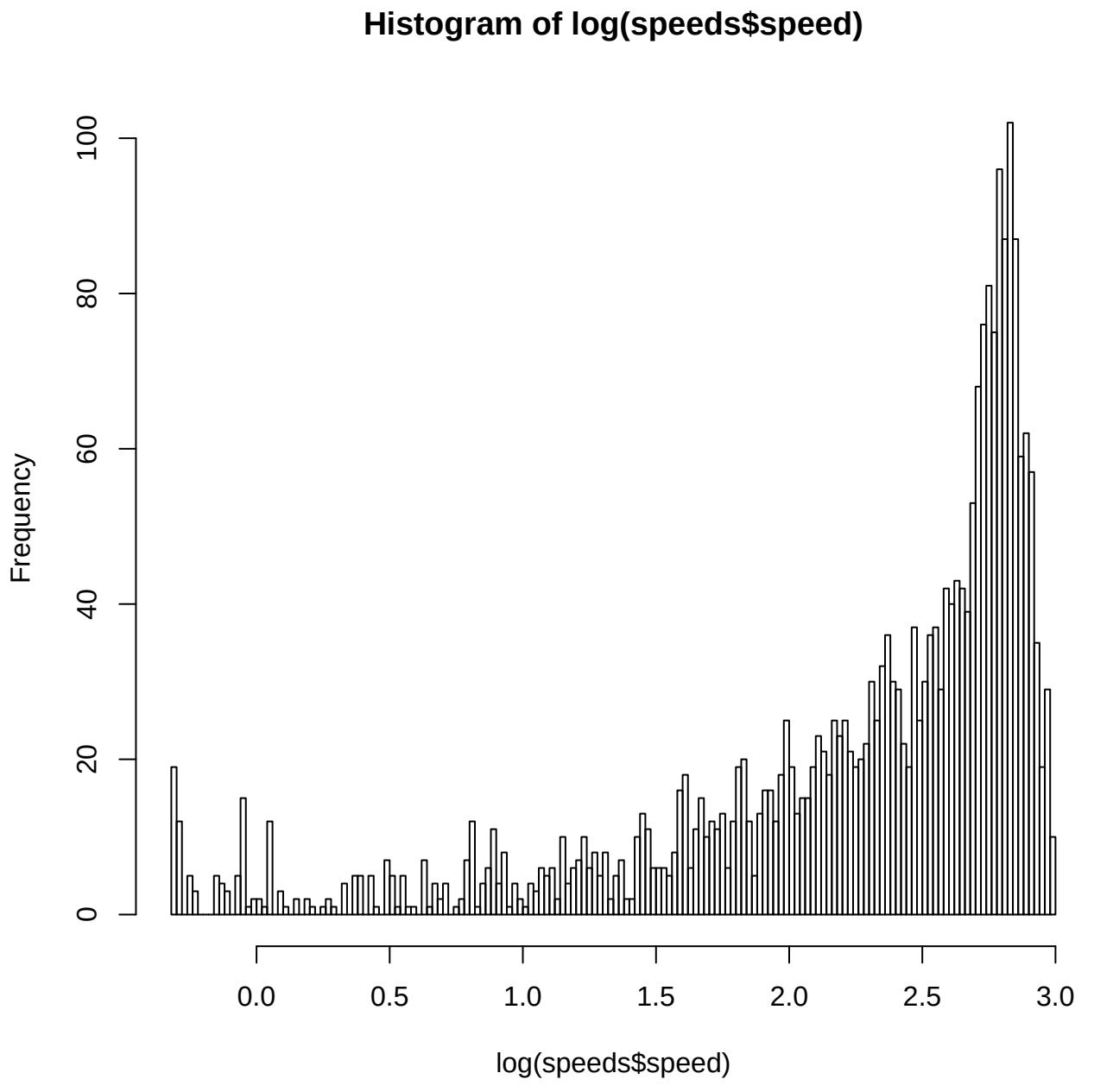

speed average per sec: 192_CS_BvS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

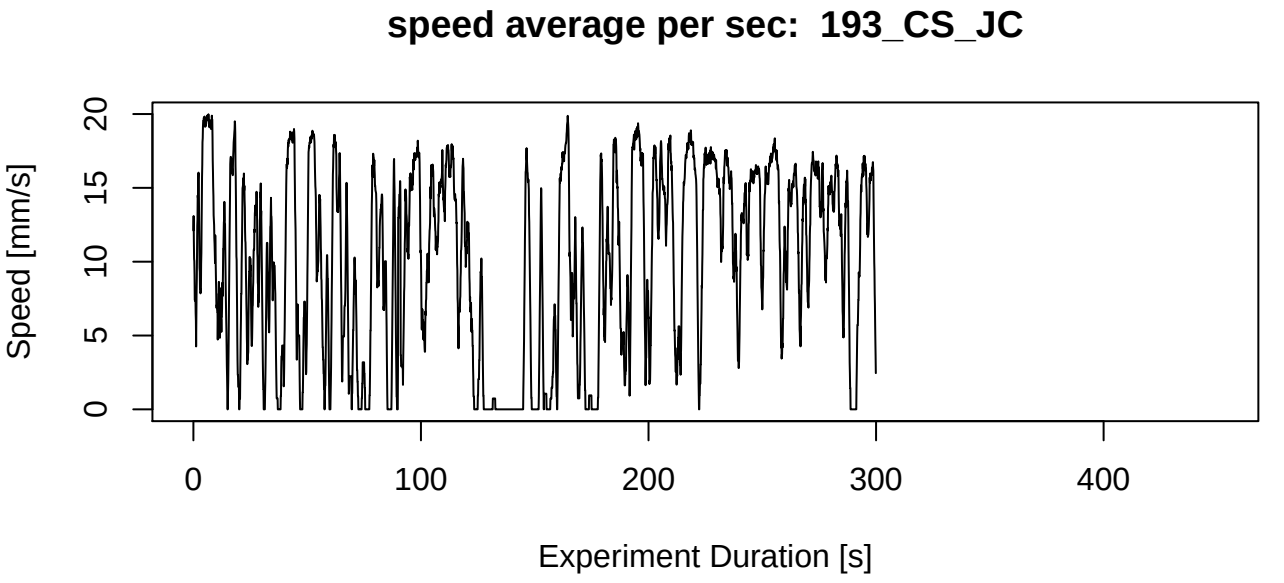

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

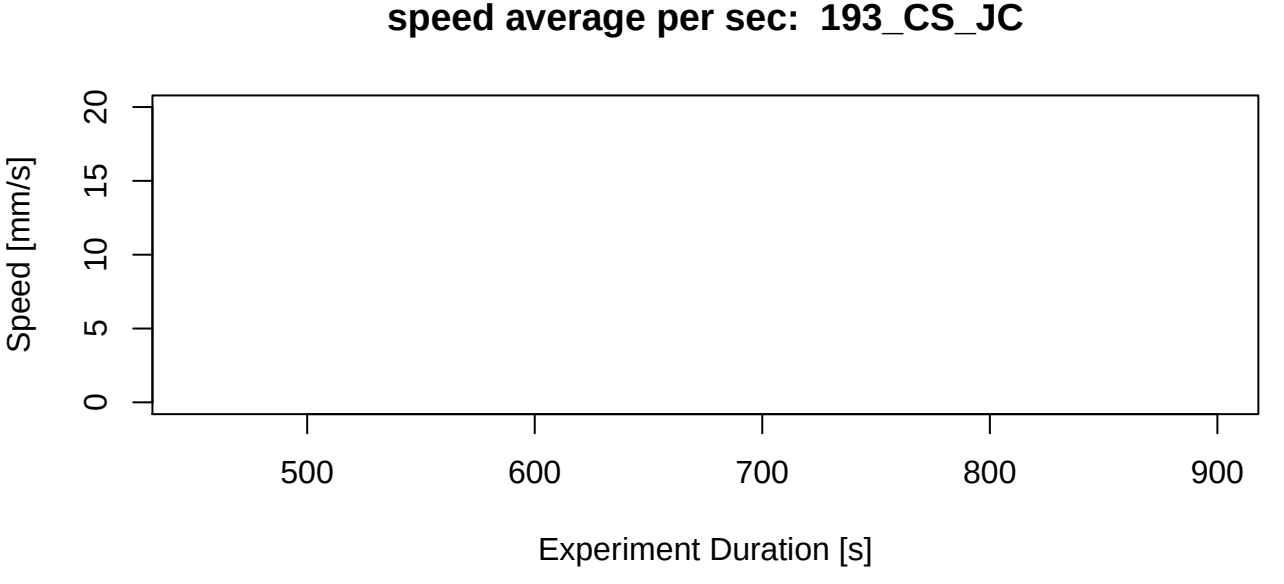

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

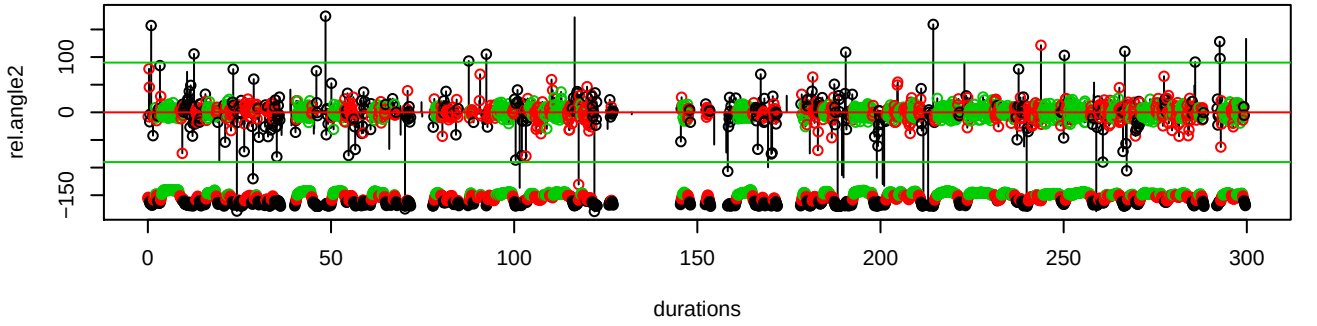

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

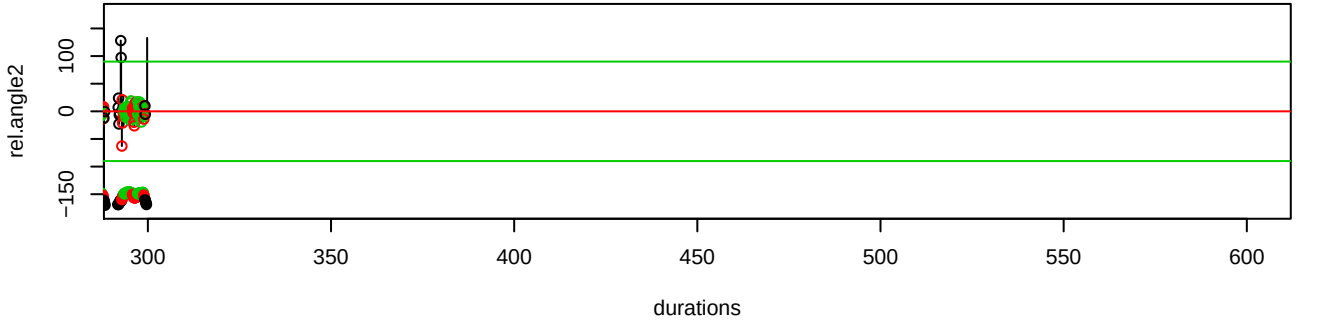

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

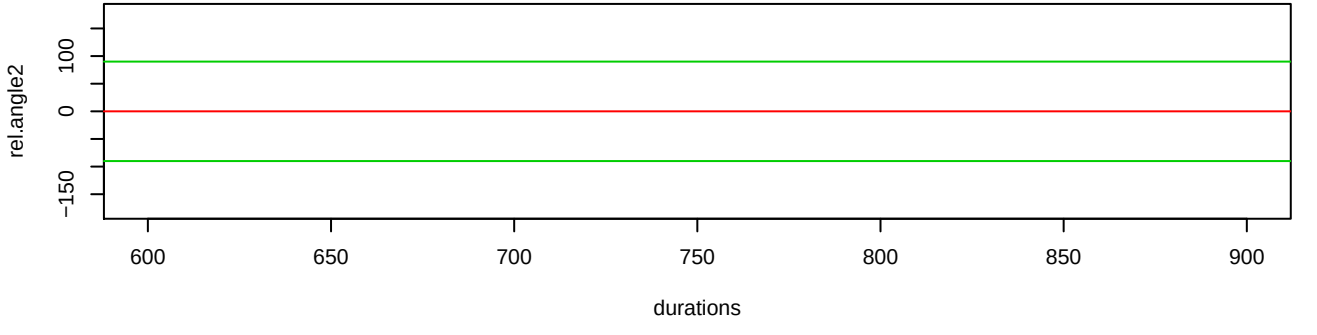

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

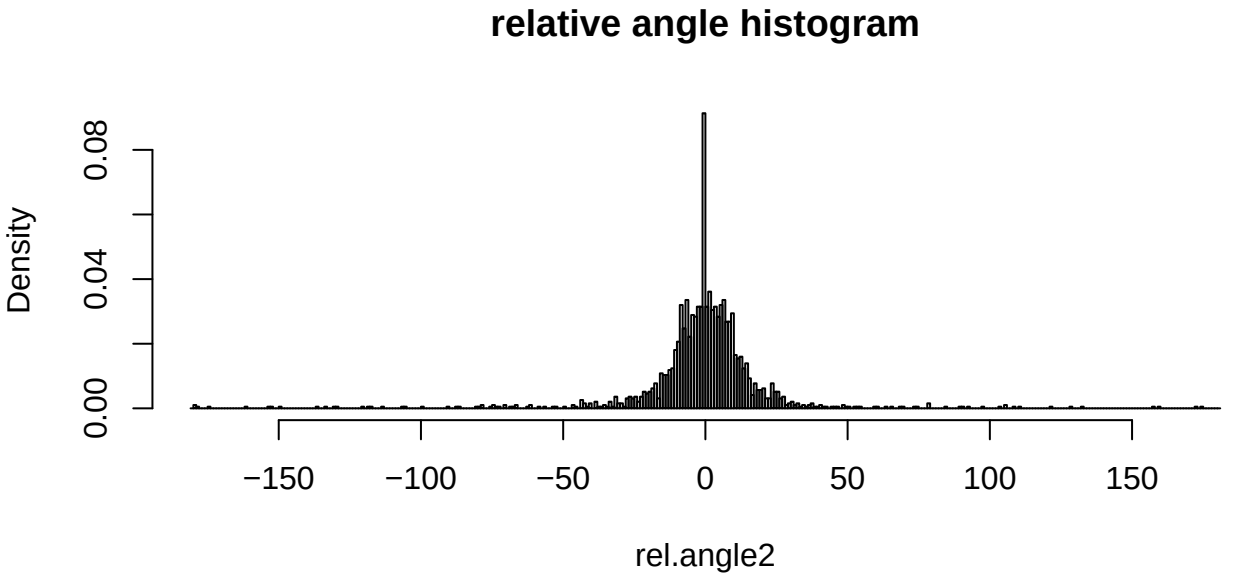

speed average per sec: 193_CS_JC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

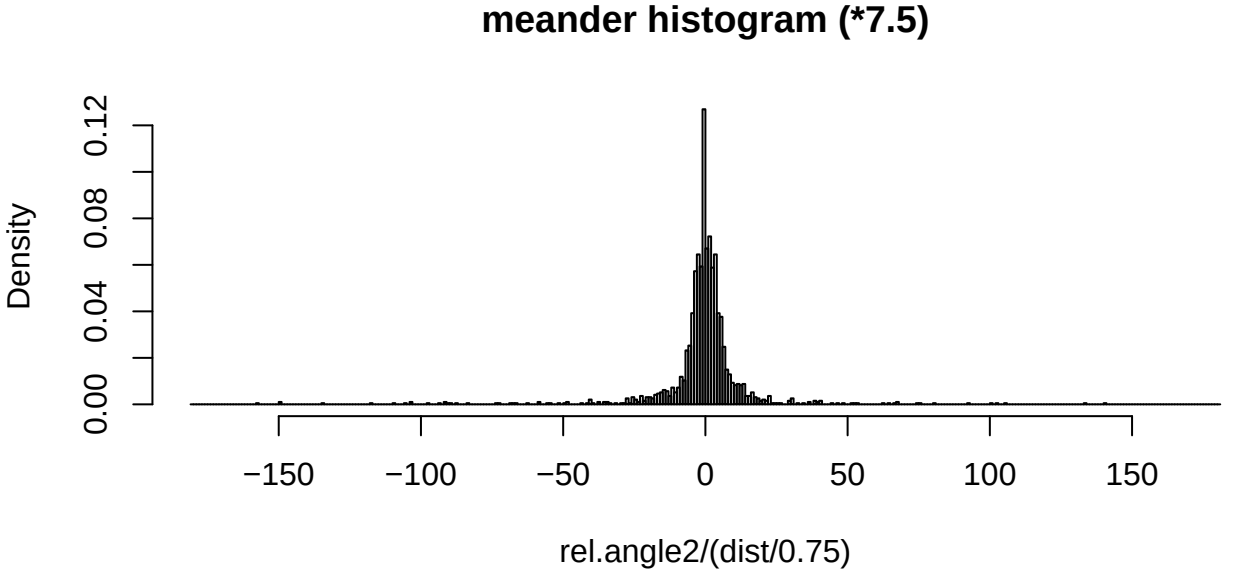

speed average per sec: 193_CS_JC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

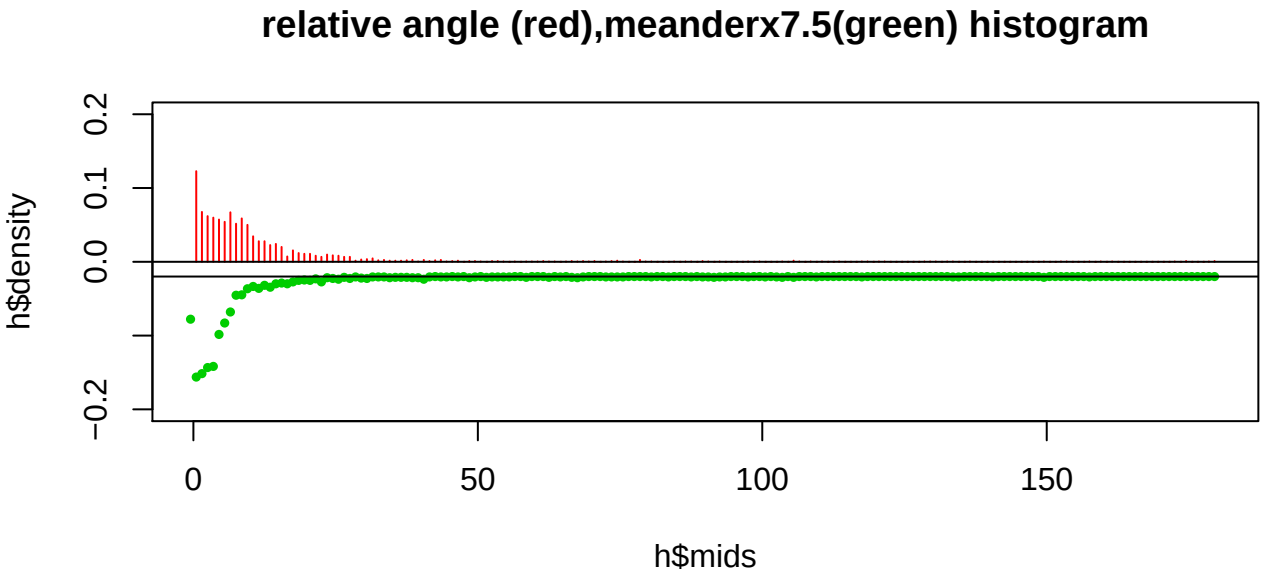

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

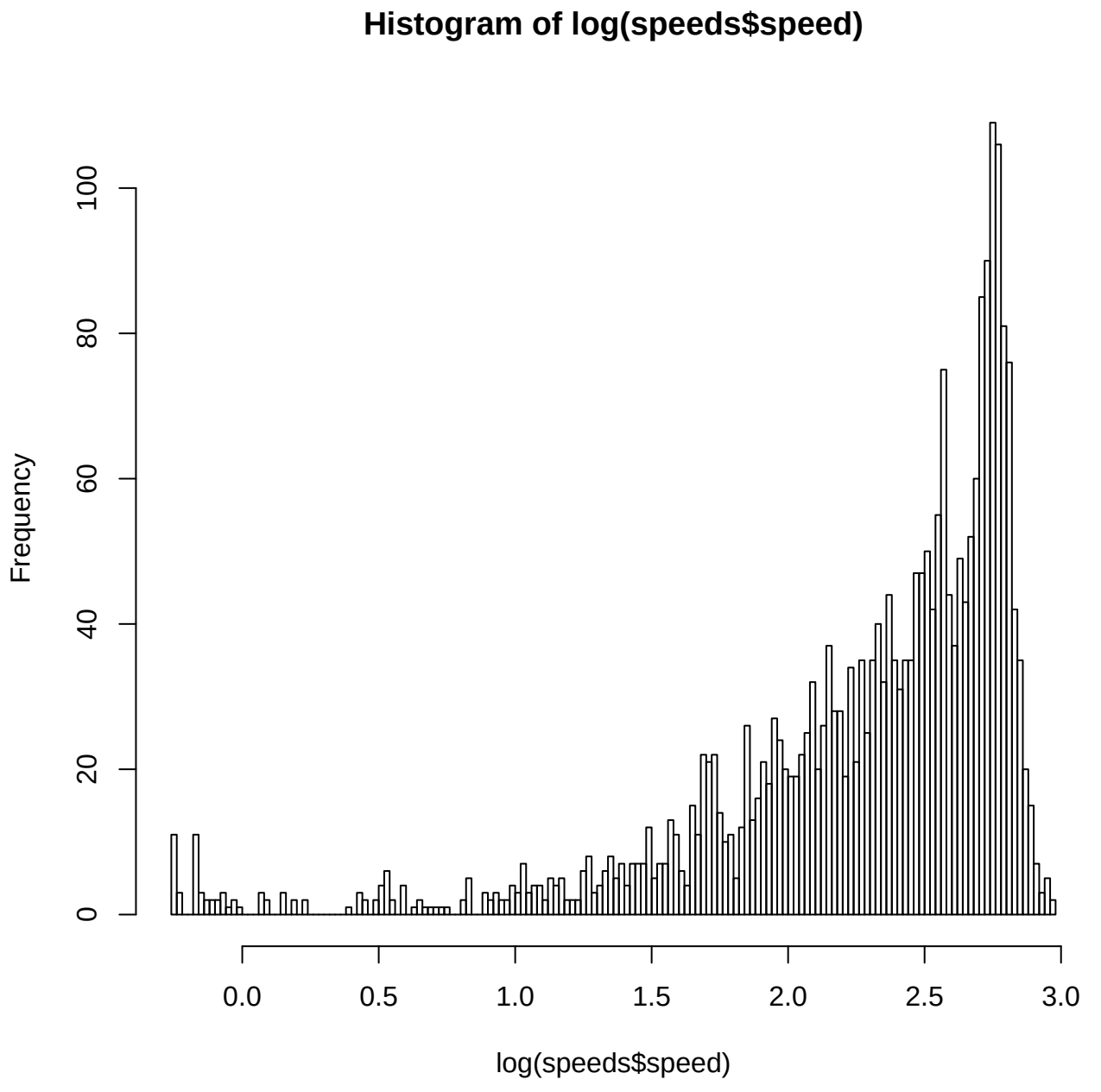

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

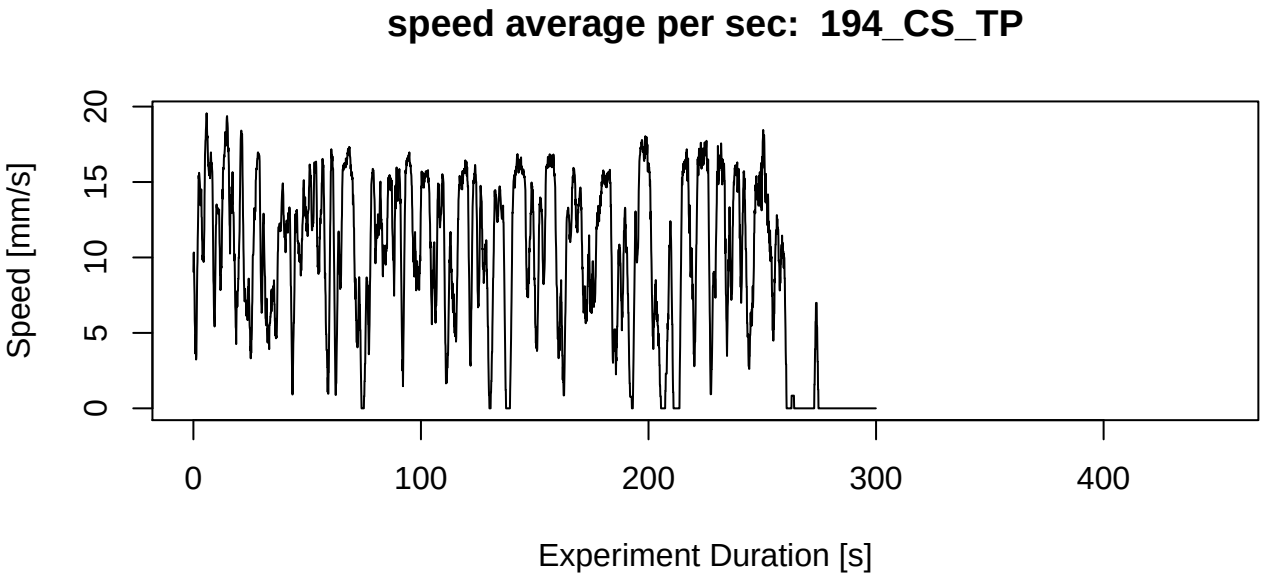

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

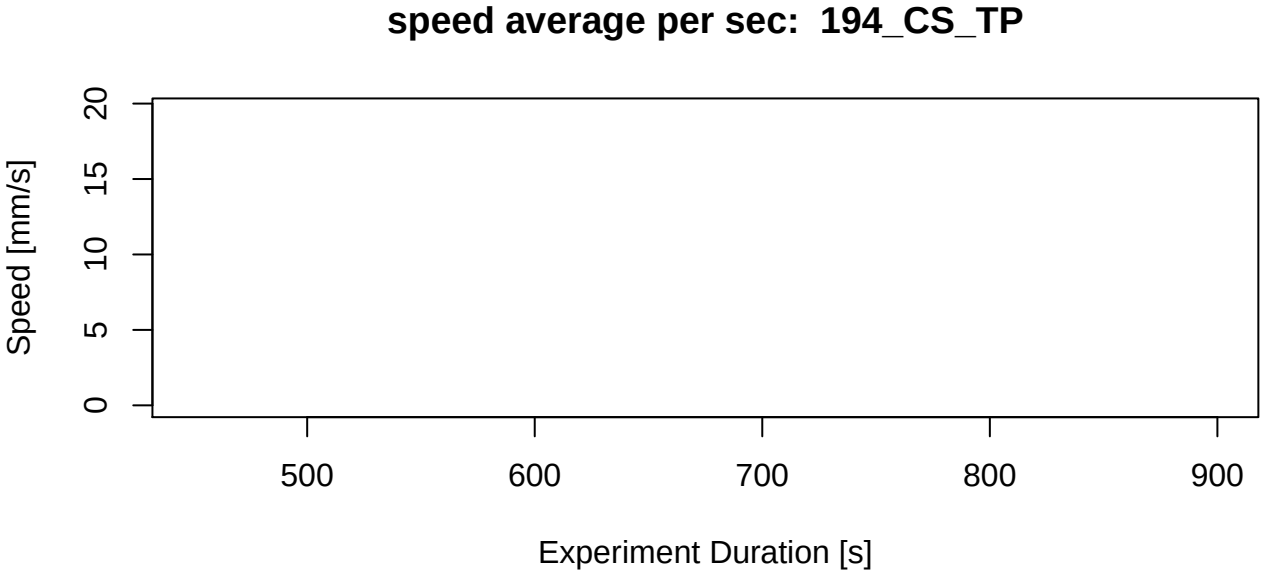

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

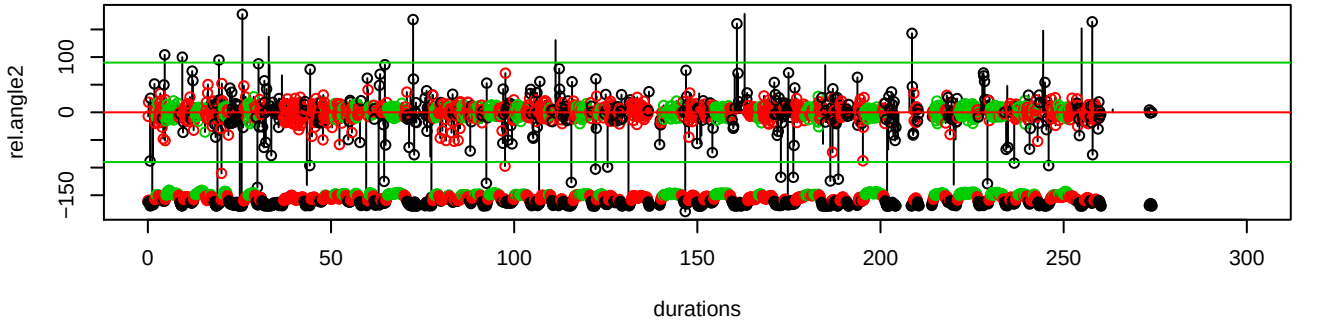

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

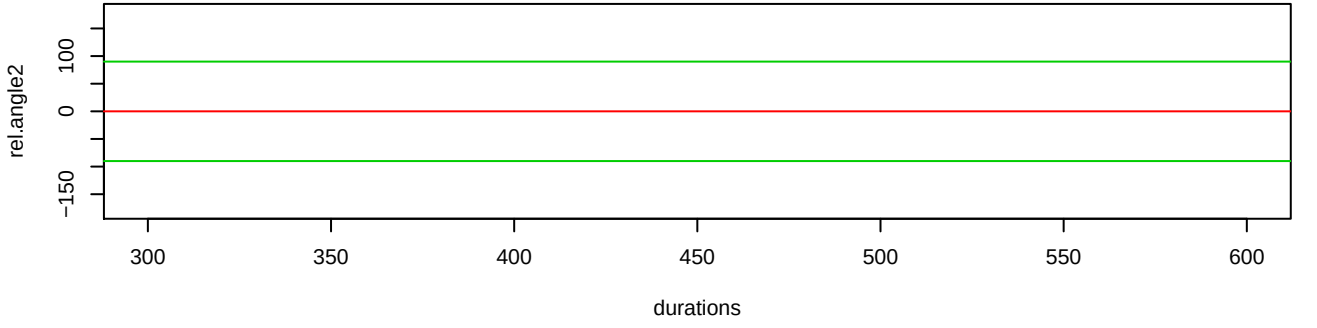

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

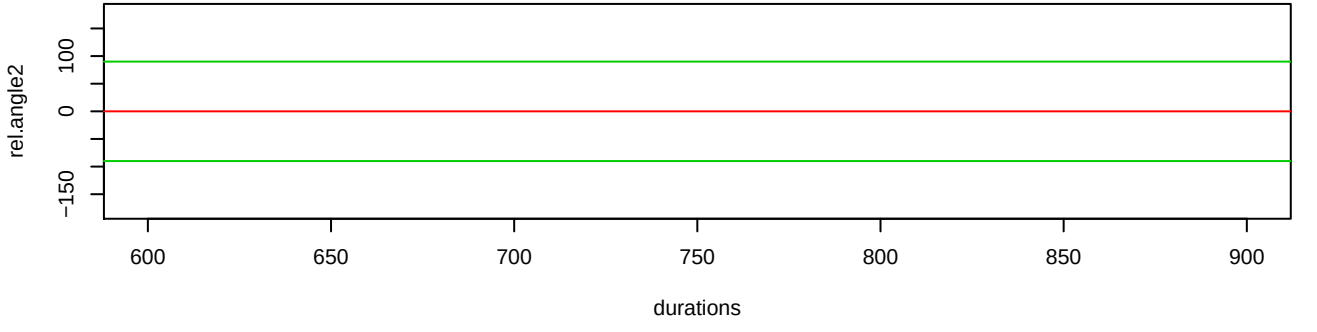

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

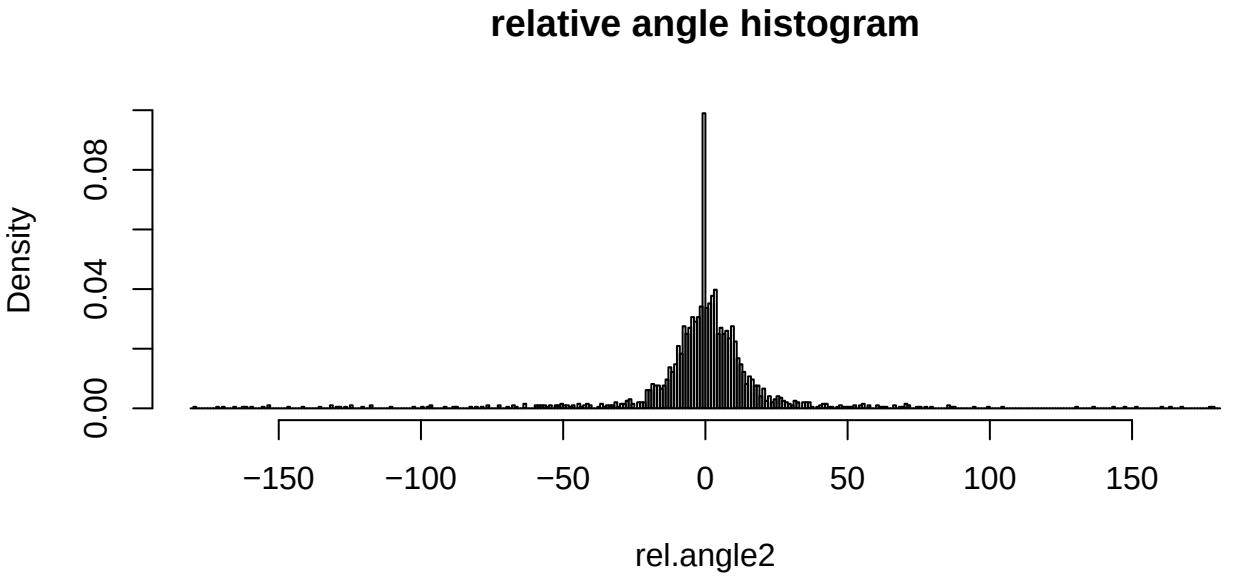

speed average per sec: 194_CS_TP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

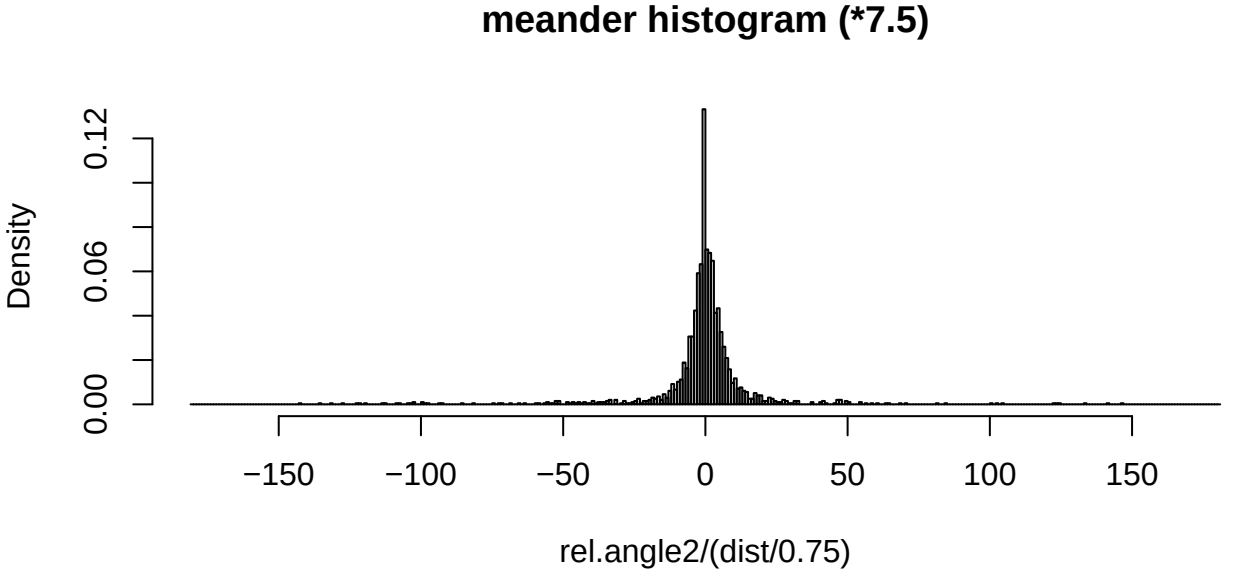

speed average per sec: 194_CS_TP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

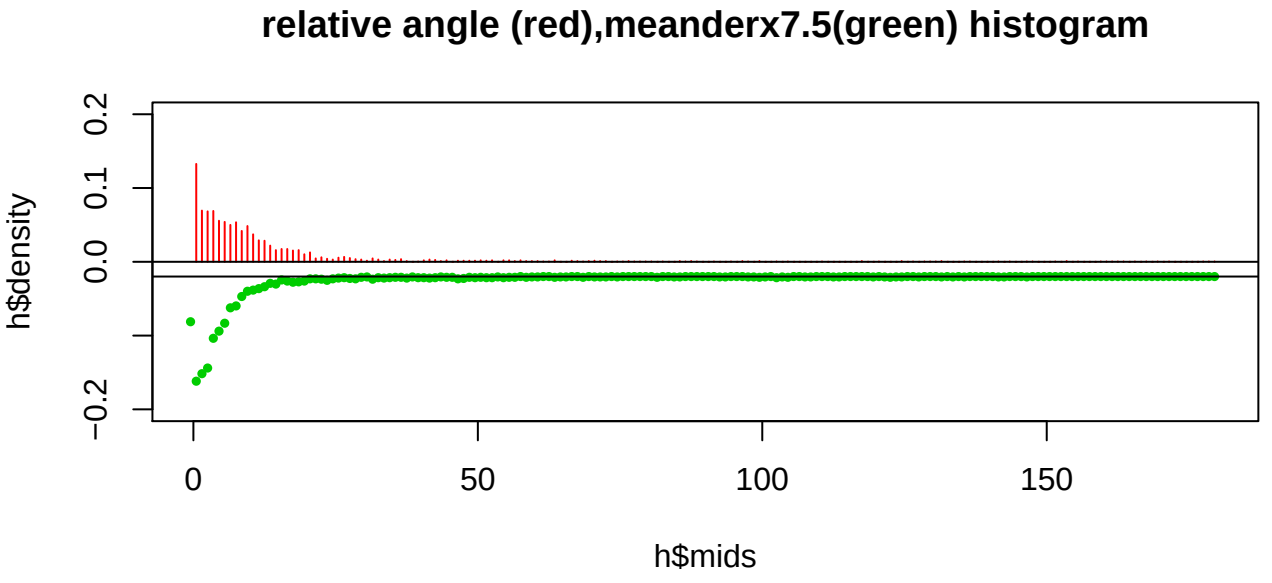

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

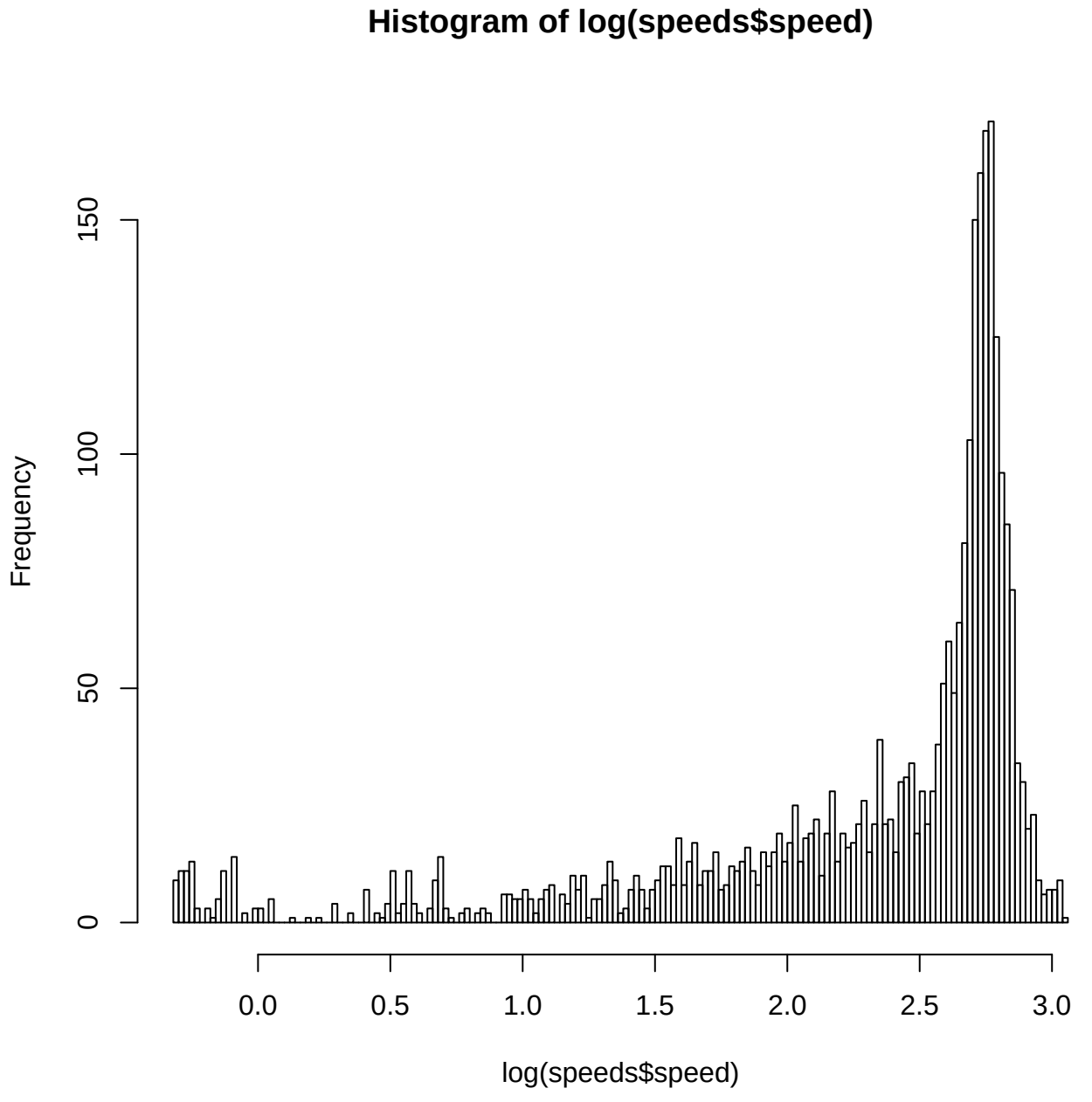

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

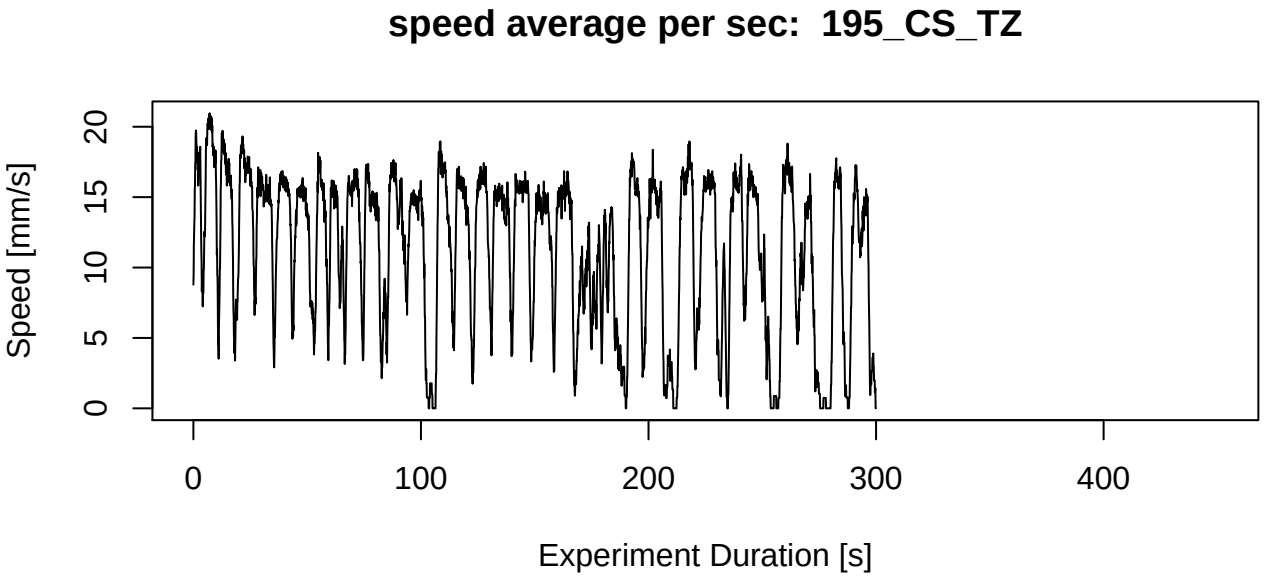

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

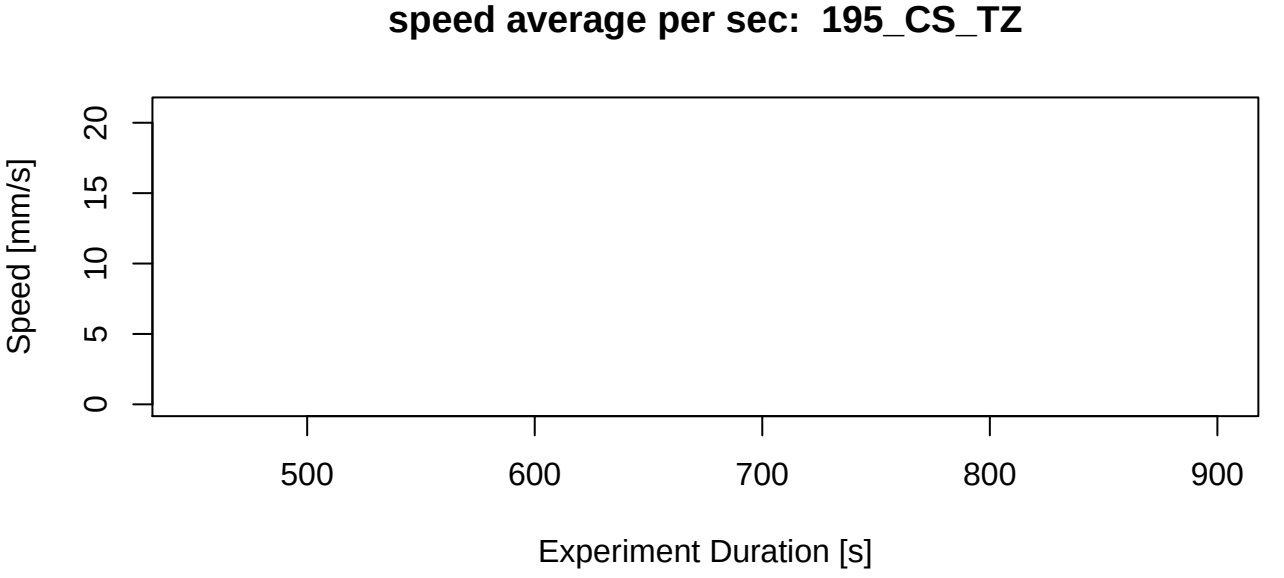

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

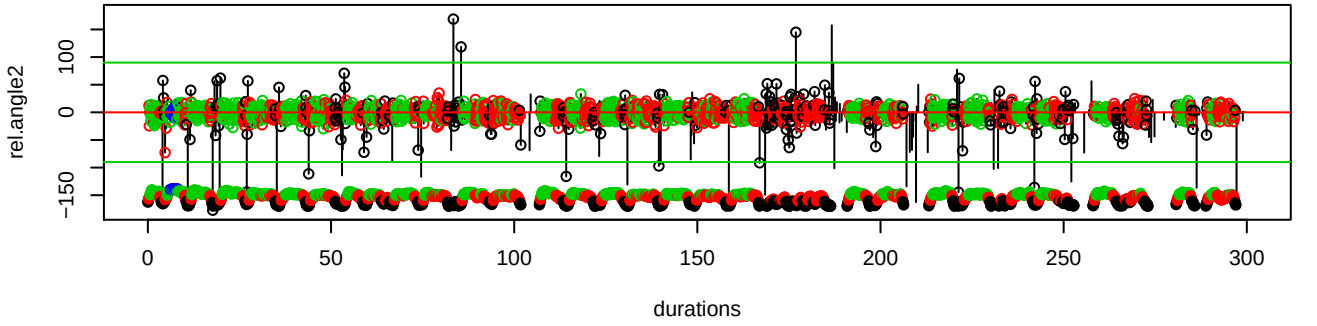

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

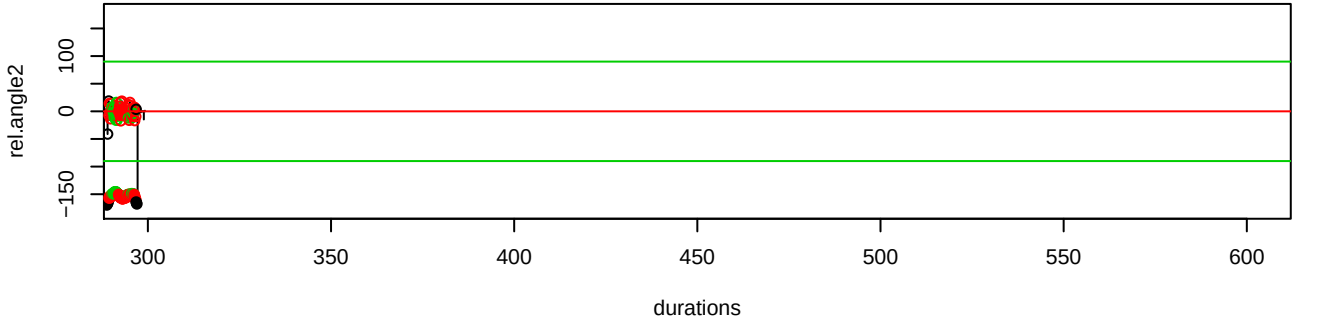

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

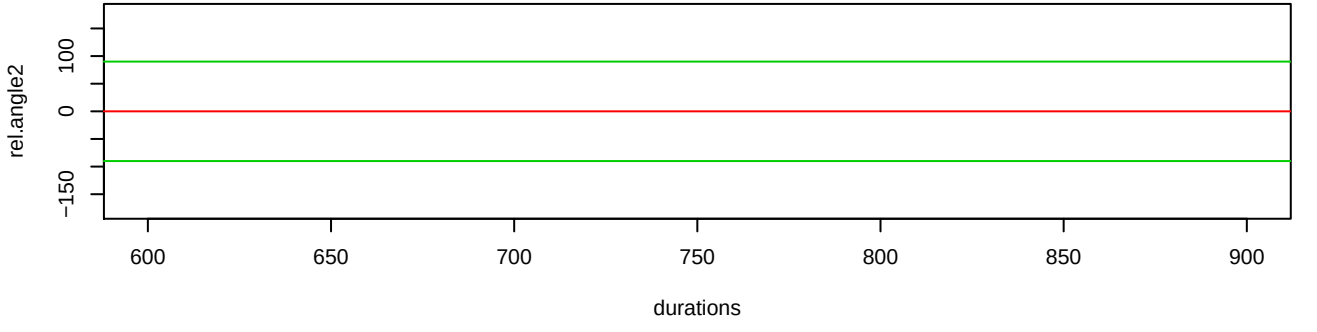

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

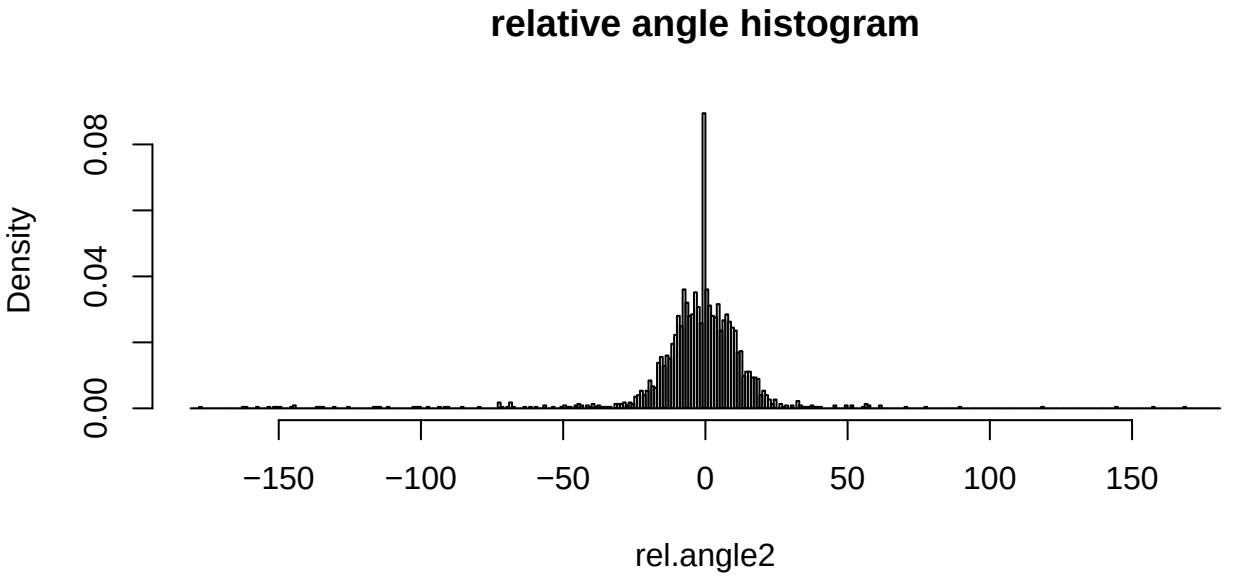

speed average per sec: 195_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

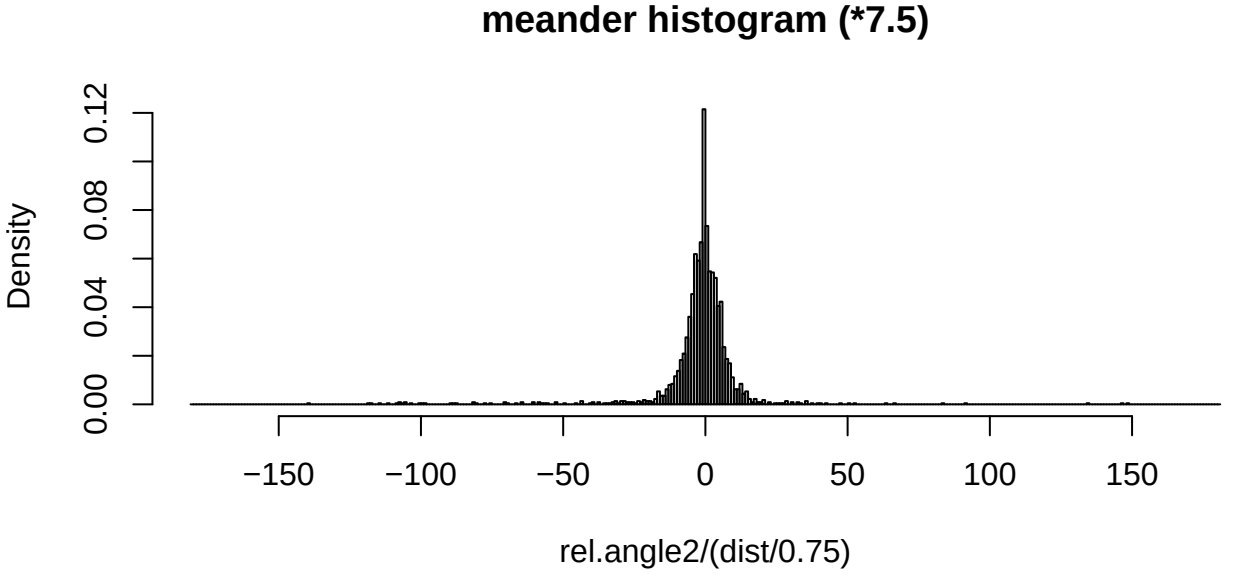

speed average per sec: 195_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

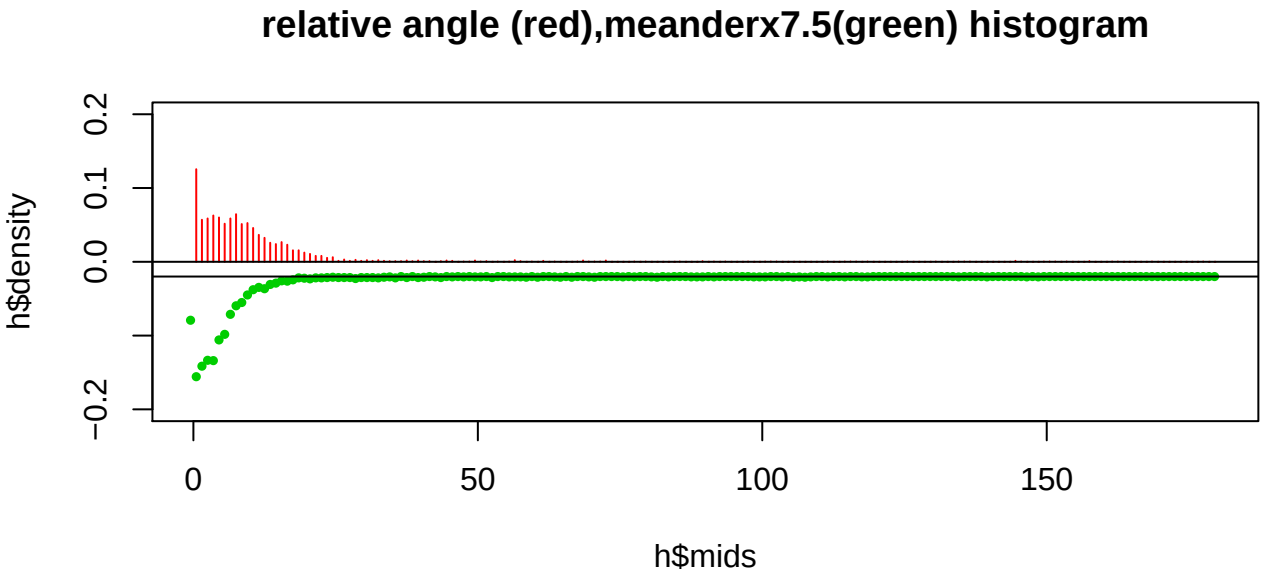

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

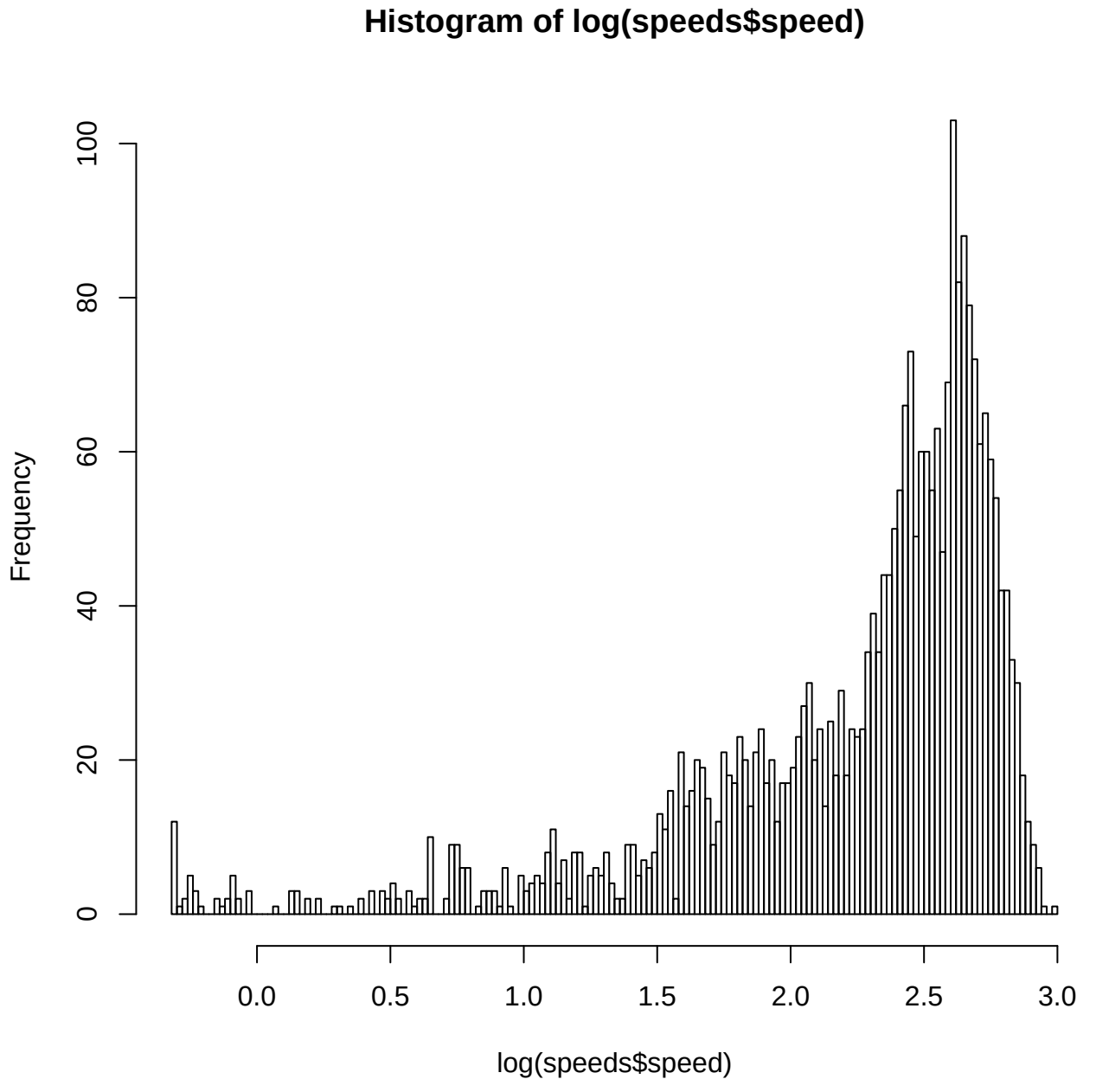

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

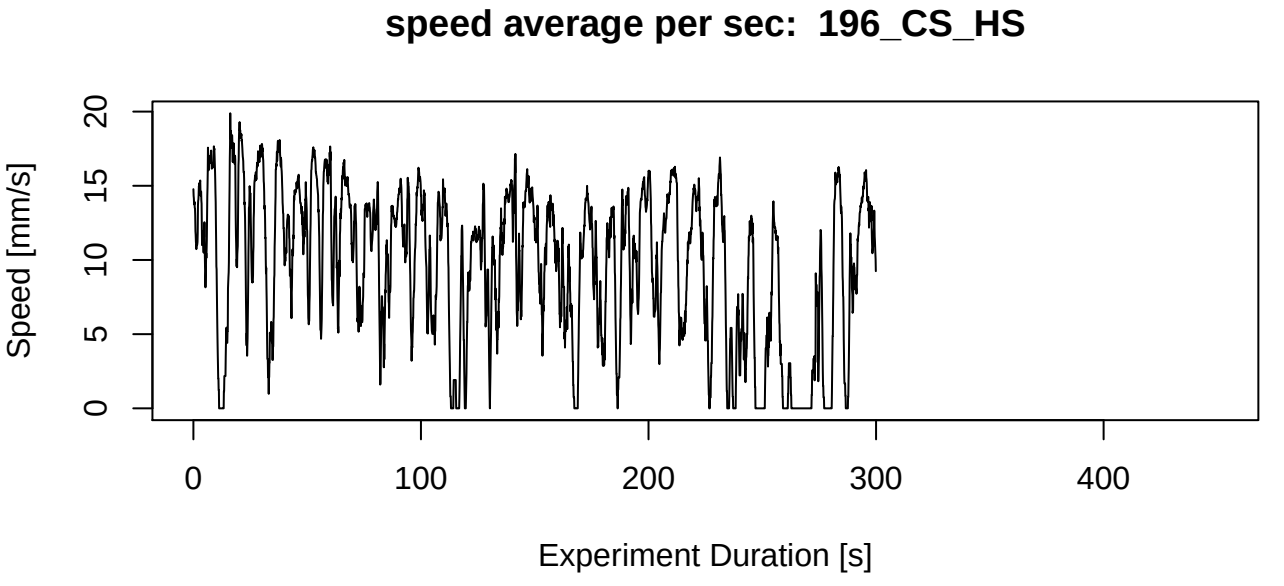

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

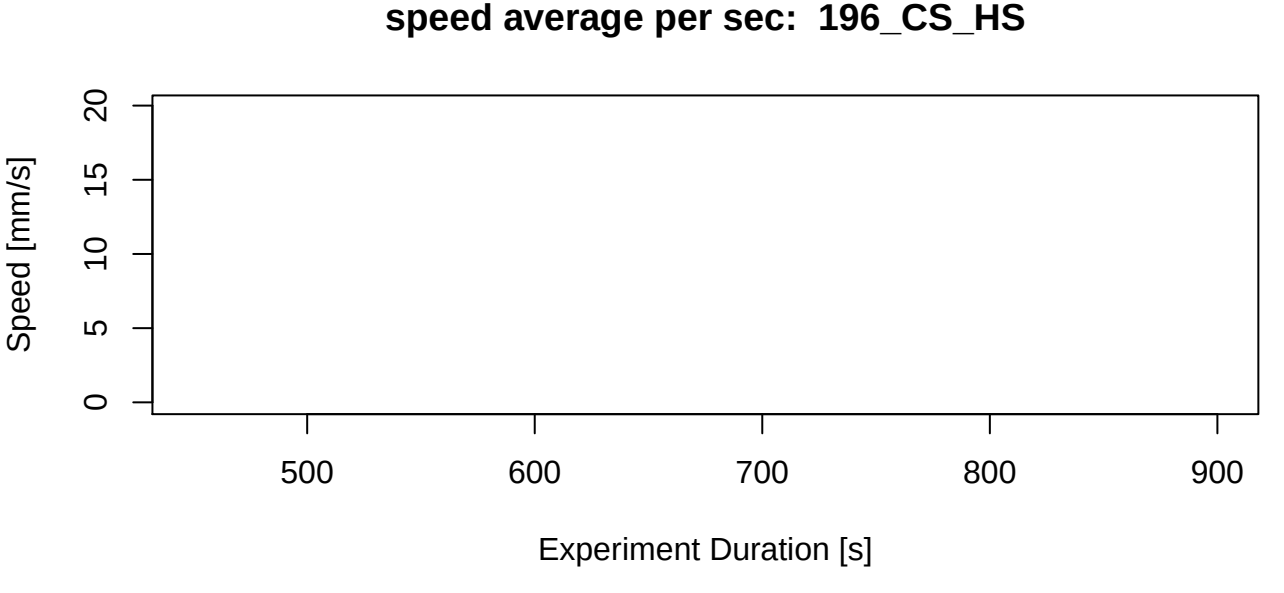

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

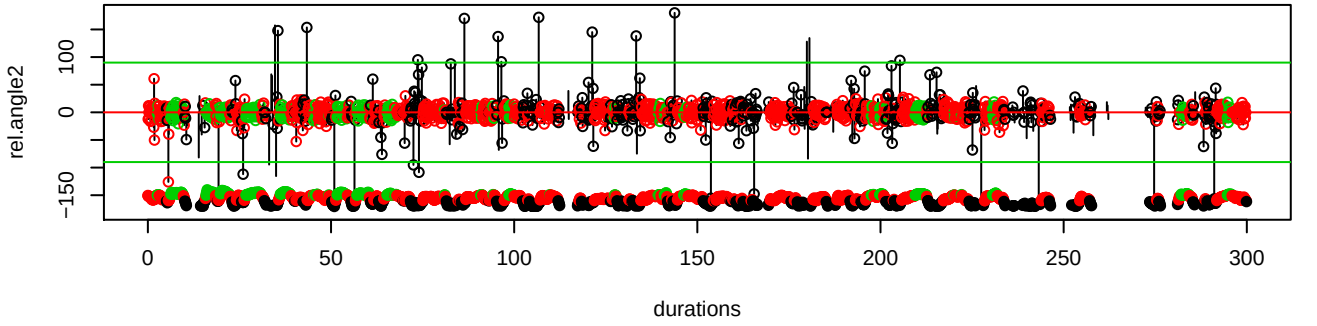

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

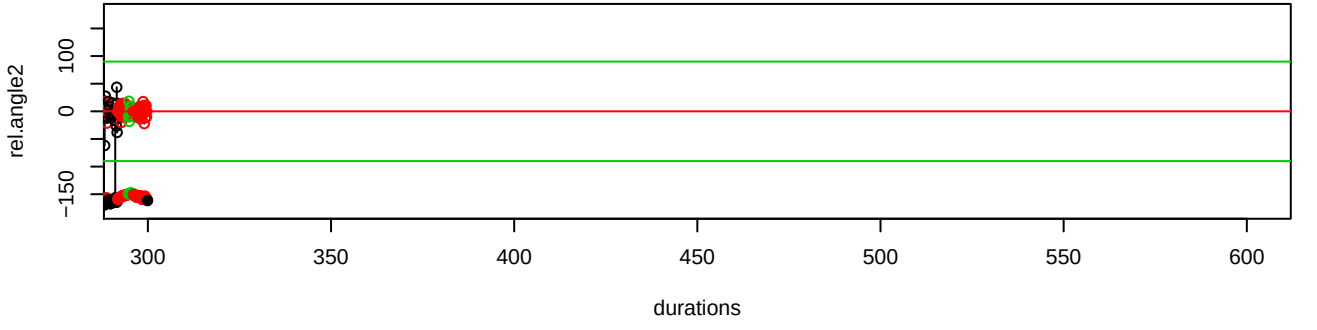

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

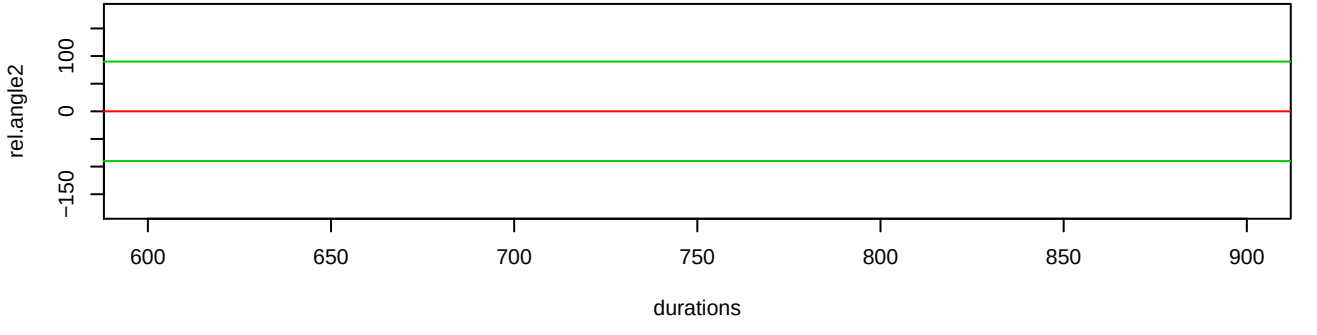

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

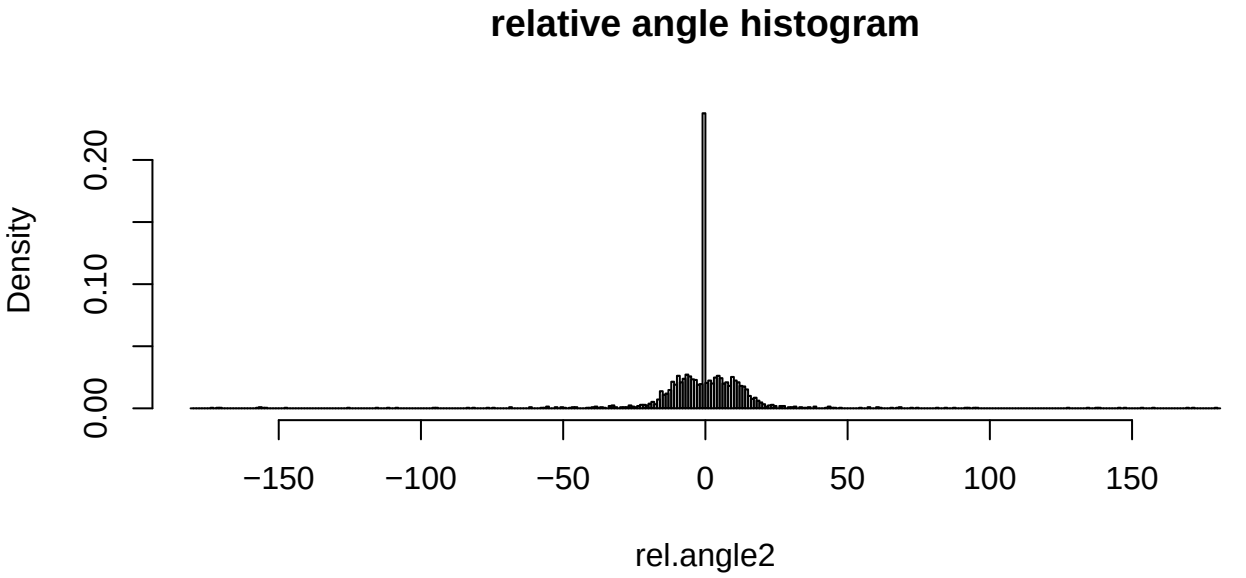

speed average per sec: 196_CS_HS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

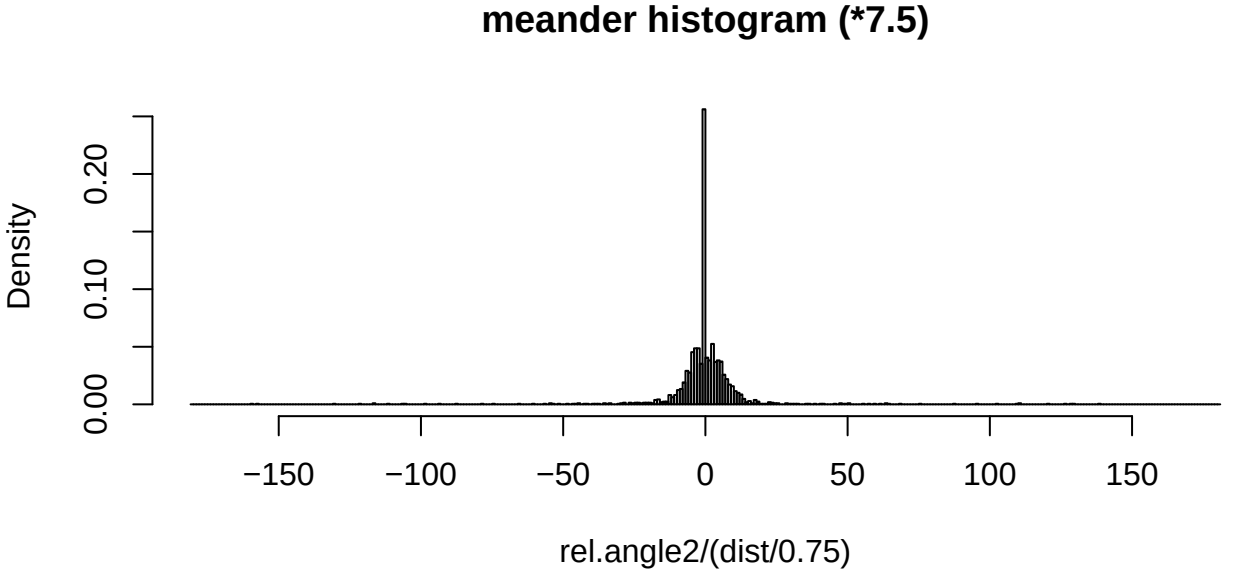

speed average per sec: 196_CS_HS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

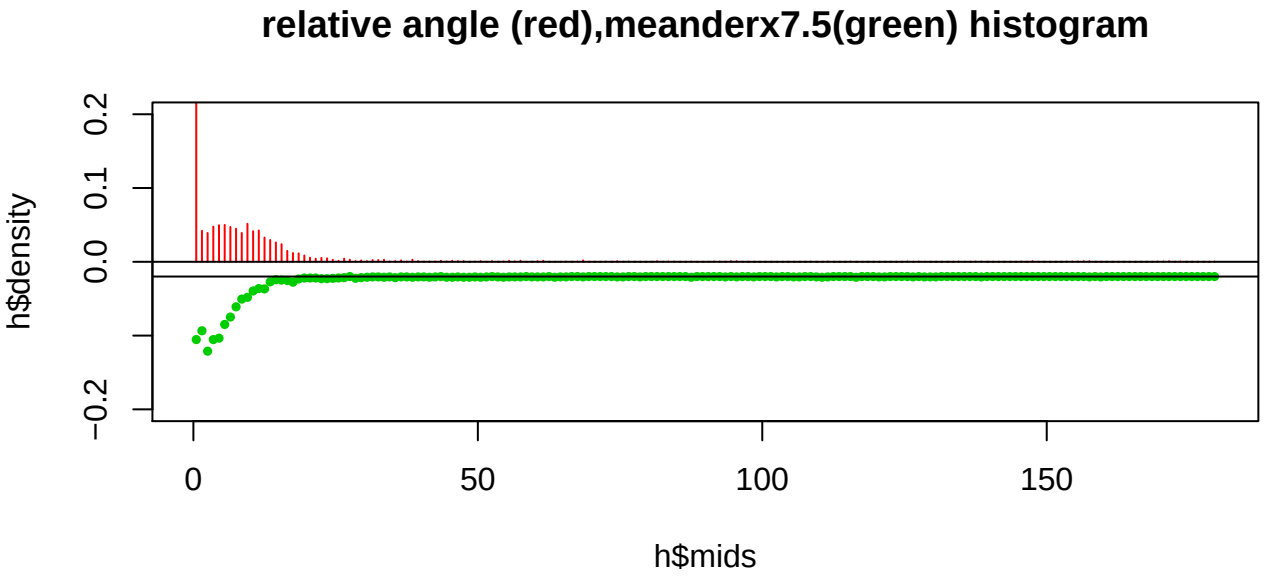

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

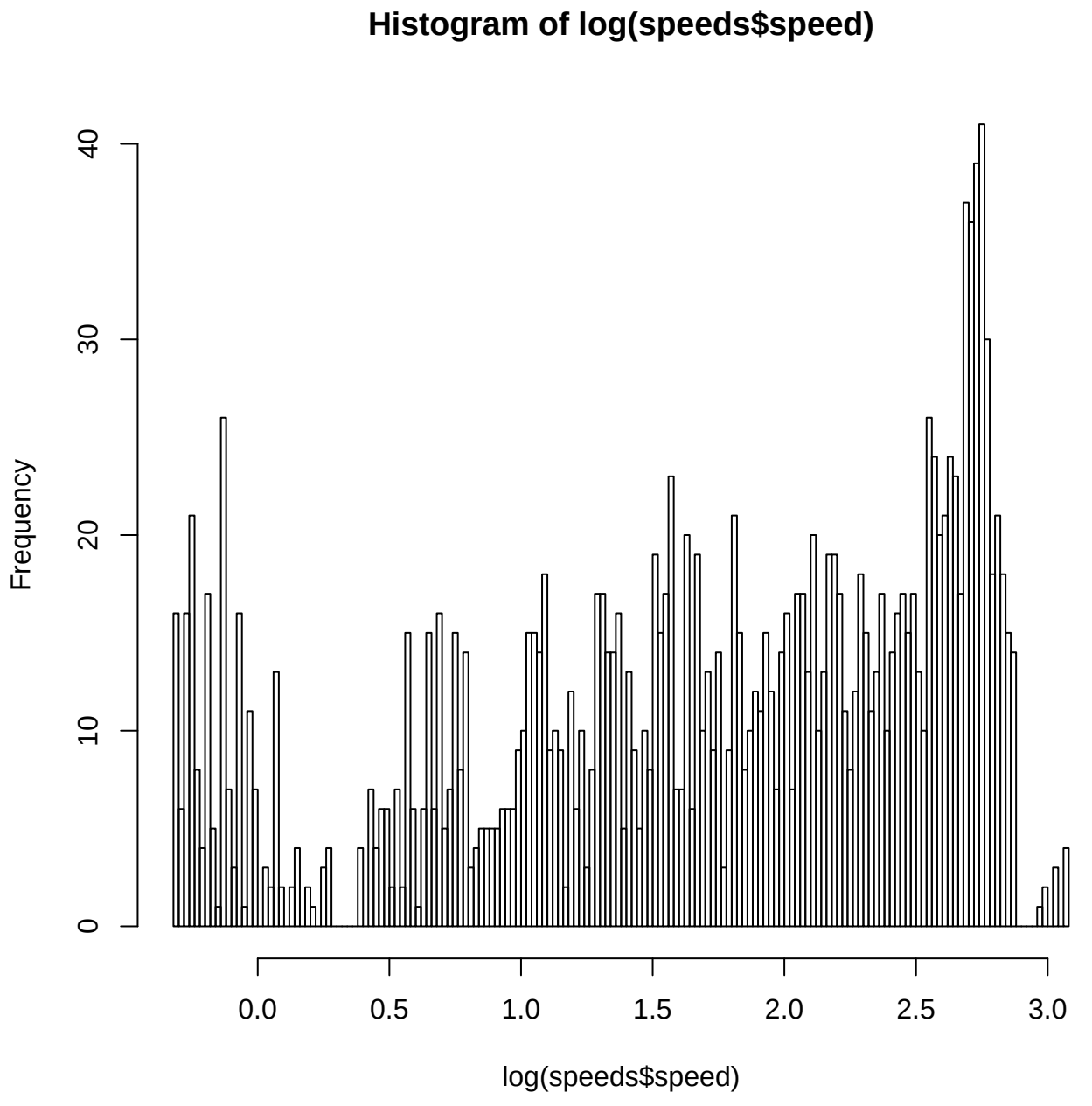

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

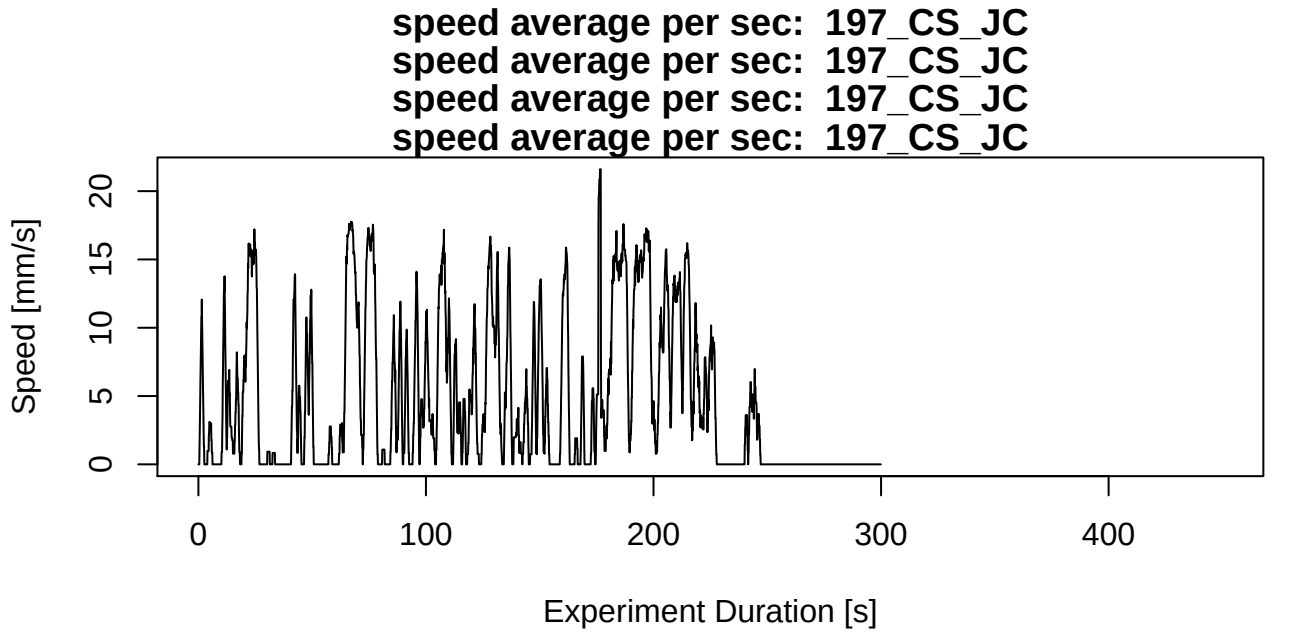

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

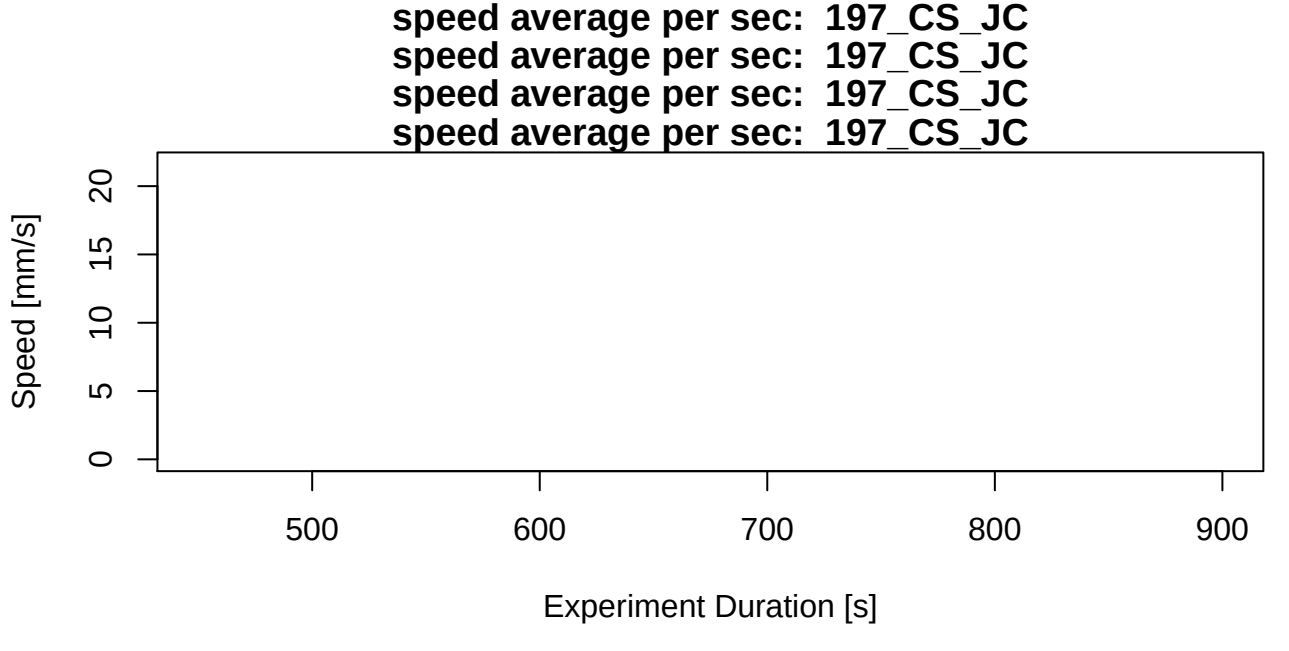

relative angle histogram
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2

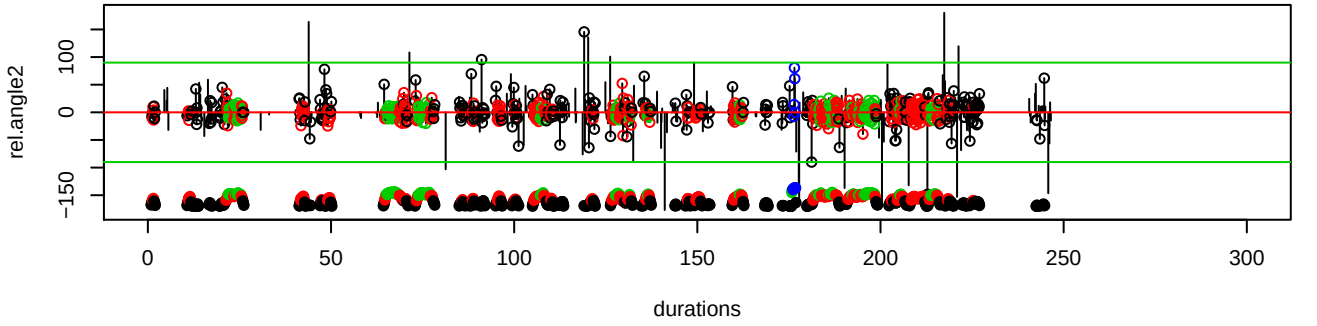

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

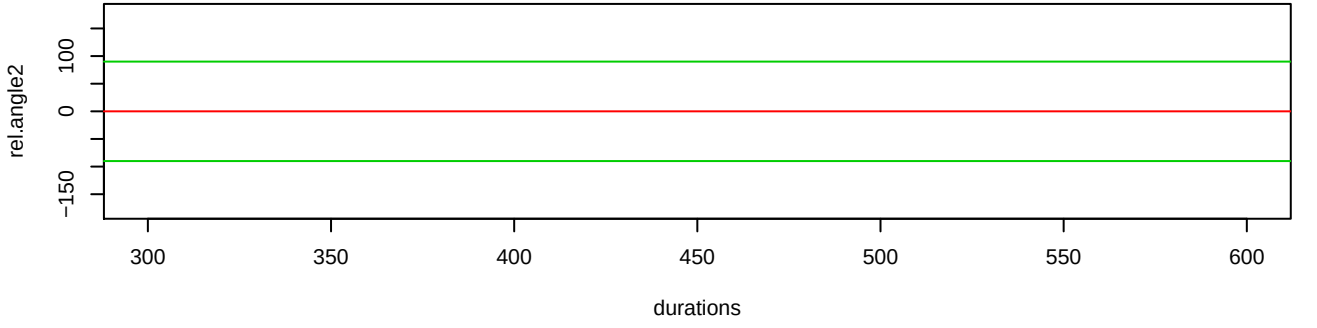

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

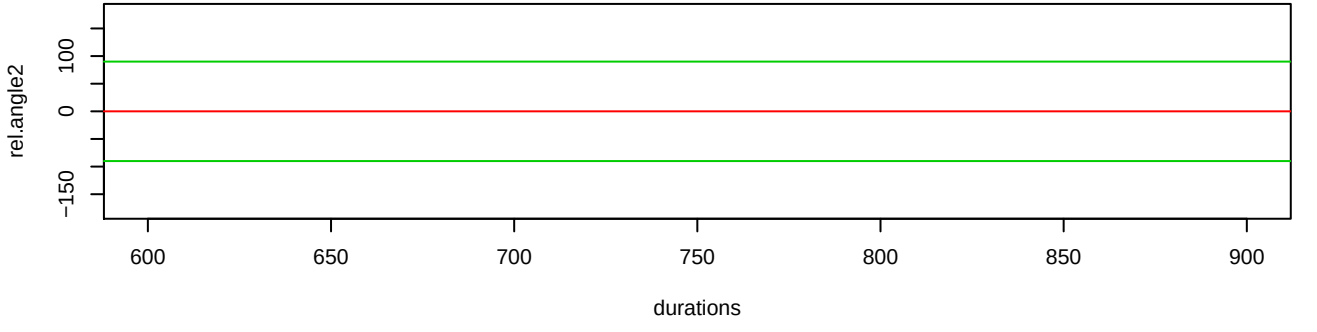

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

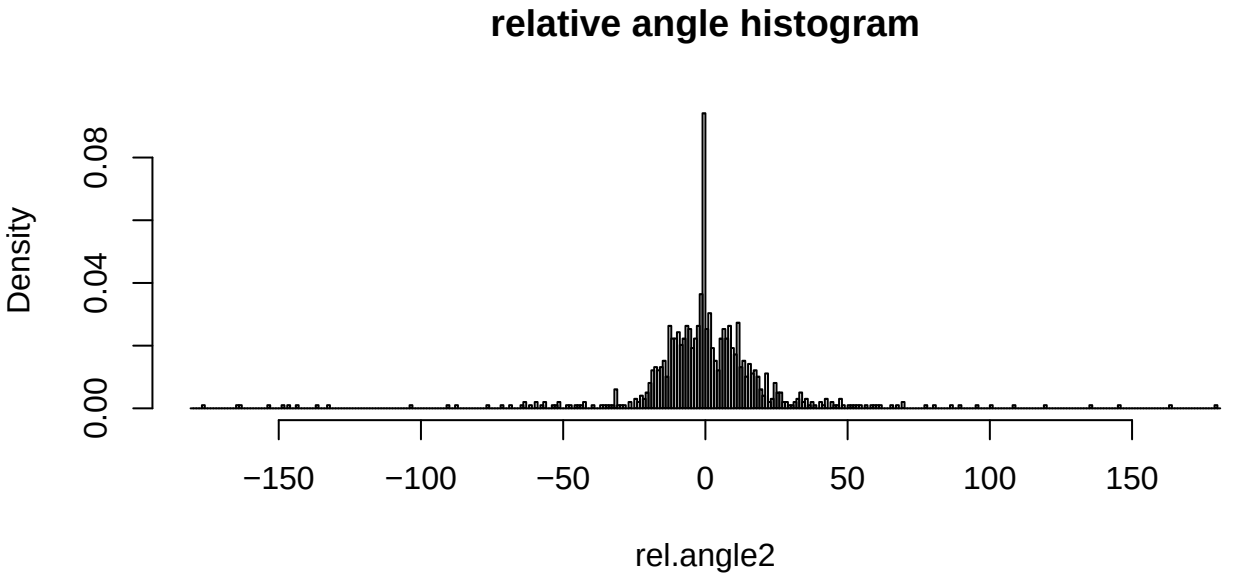

speed average per sec: 197_CS_JC
speed average per sec: 197_CS_JC
speed average per sec: 197_CS_JC
speed average per sec: 197_CS_JC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

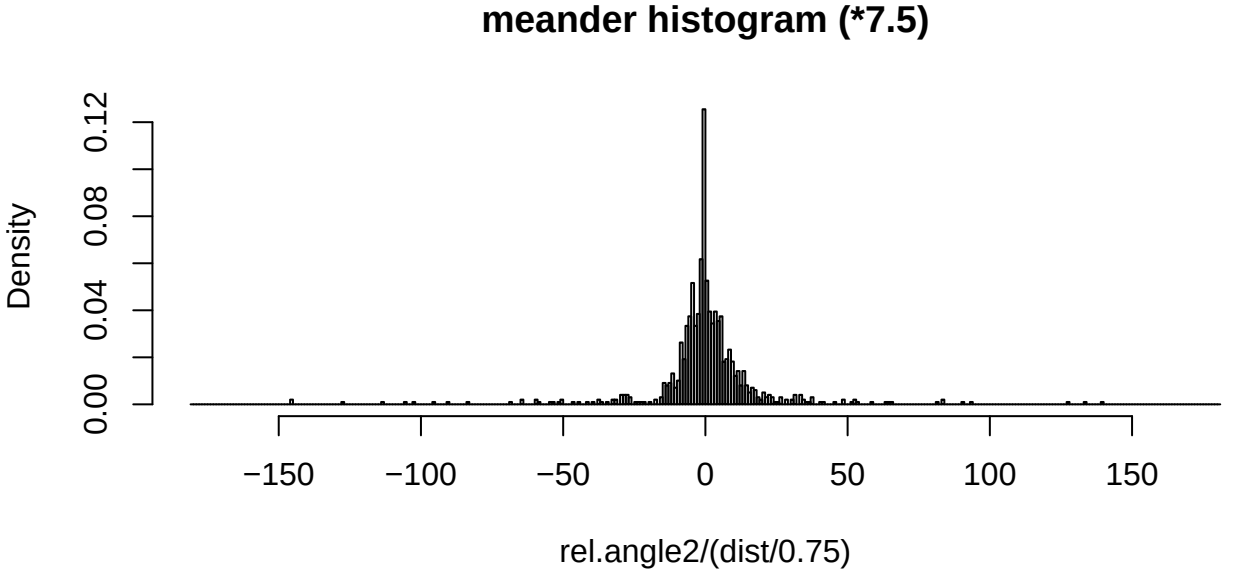

speed average per sec: 197_CS_JC
speed average per sec: 197_CS_JC
speed average per sec: 197_CS_JC
speed average per sec: 197_CS_JC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

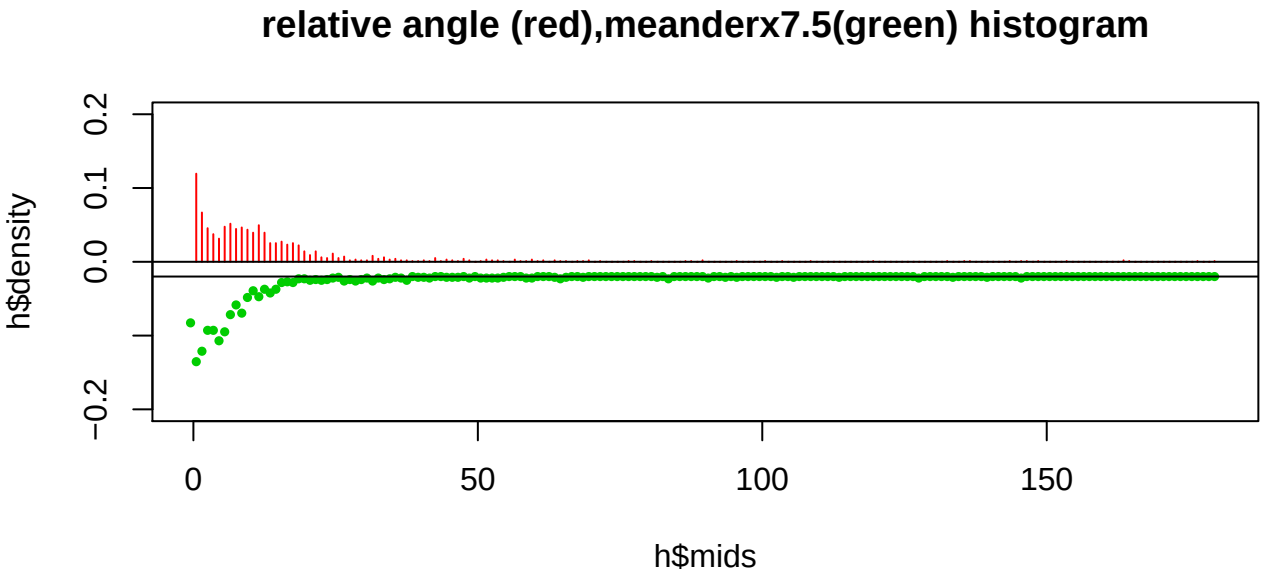

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

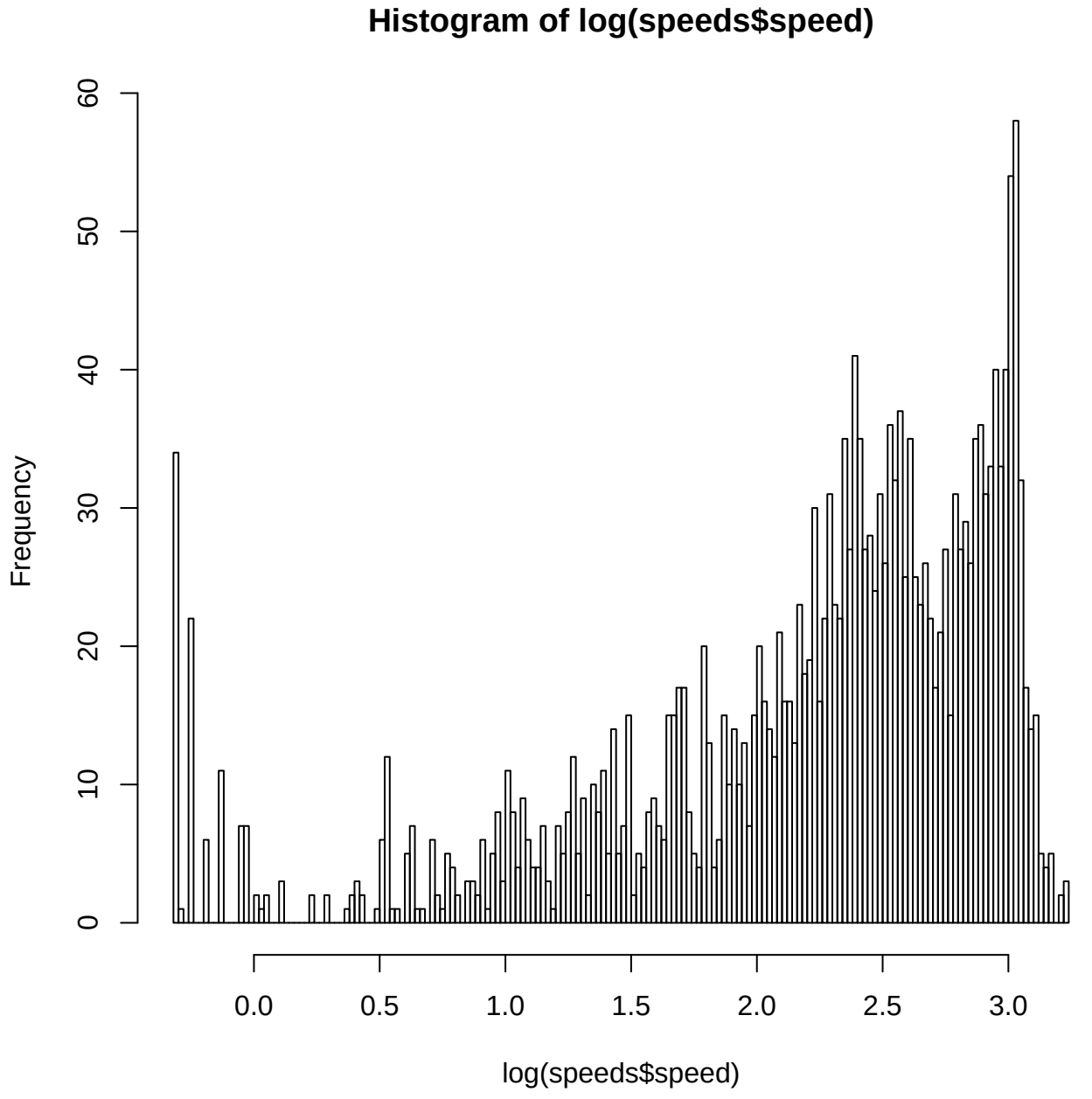

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

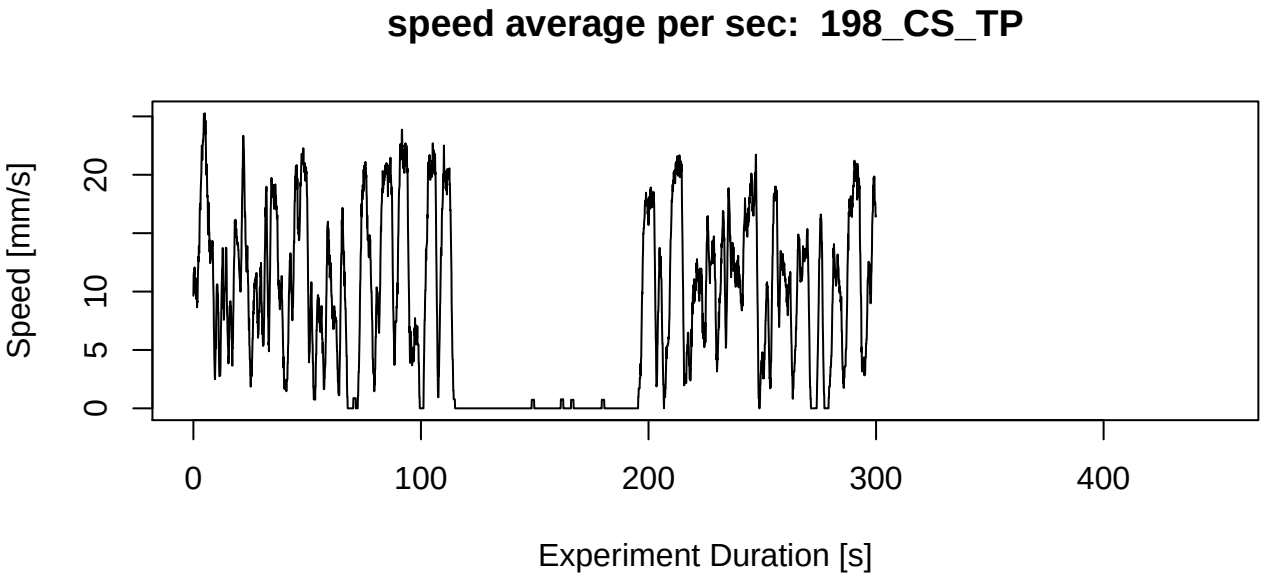

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

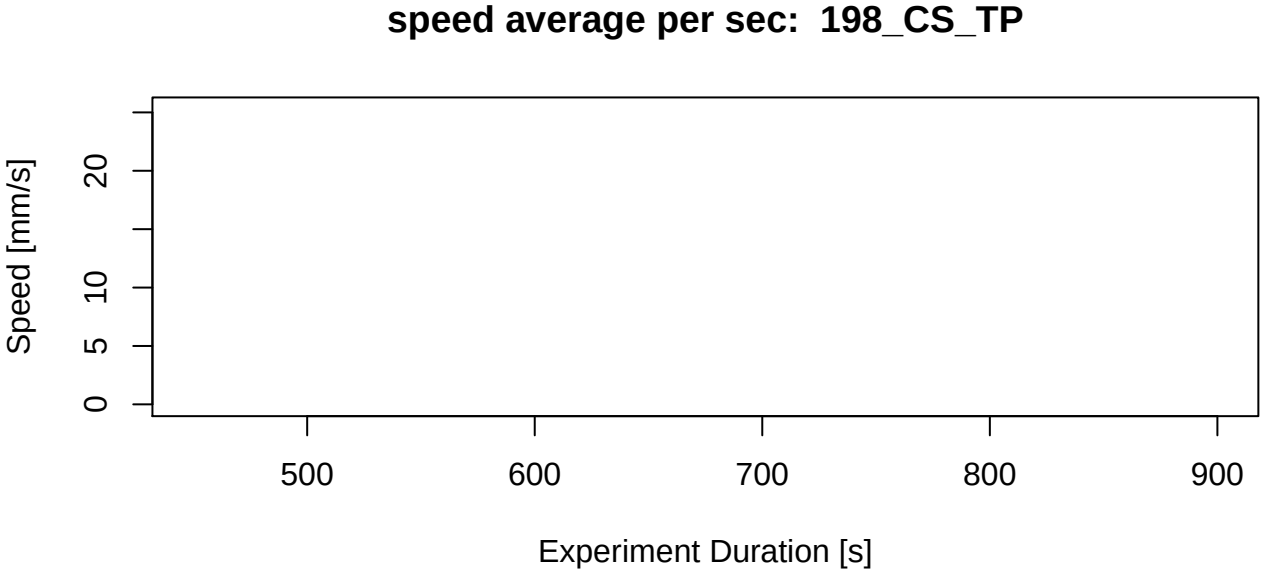

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

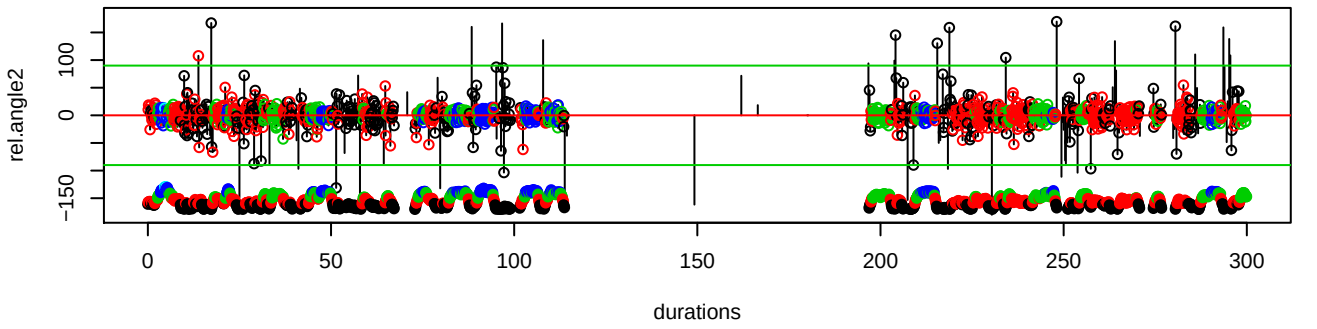

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

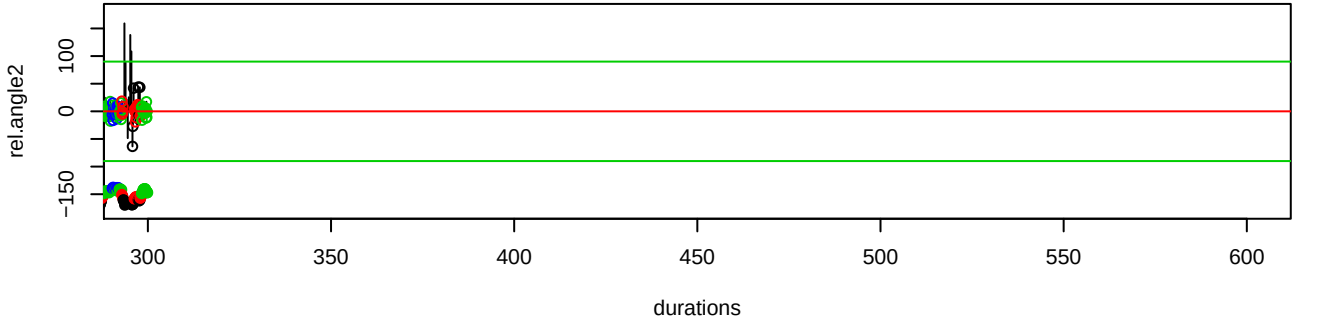

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

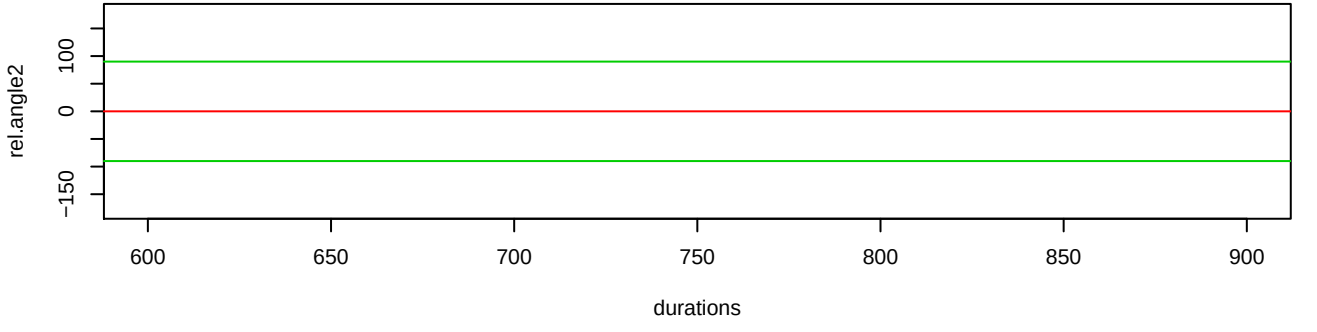

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

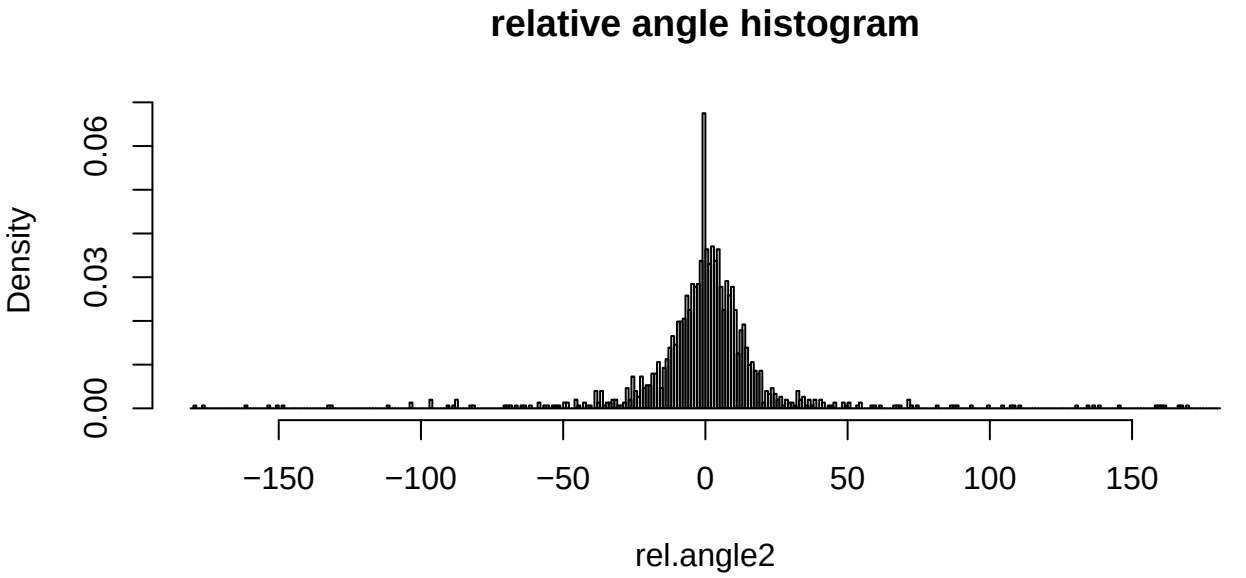

speed average per sec: 198_CS_TP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

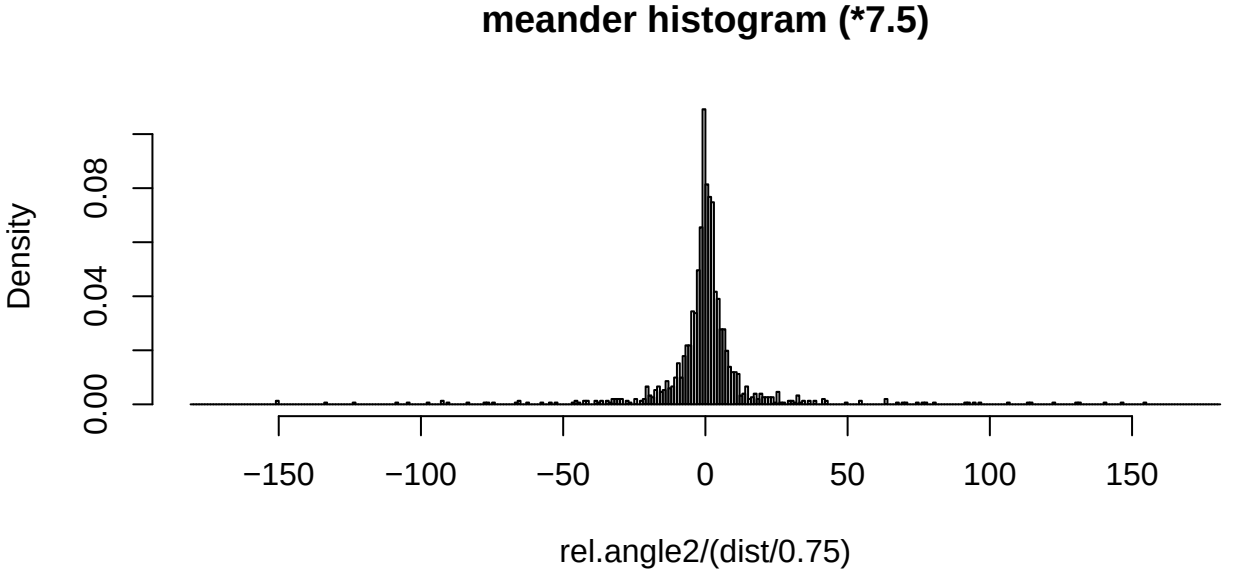

speed average per sec: 198_CS_TP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

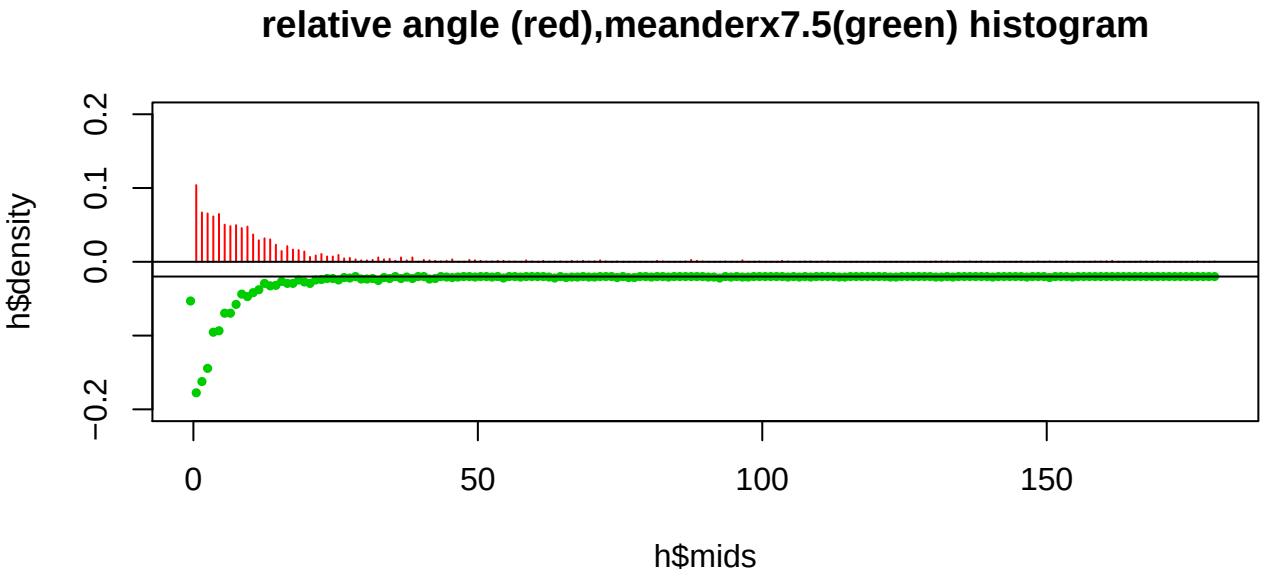

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

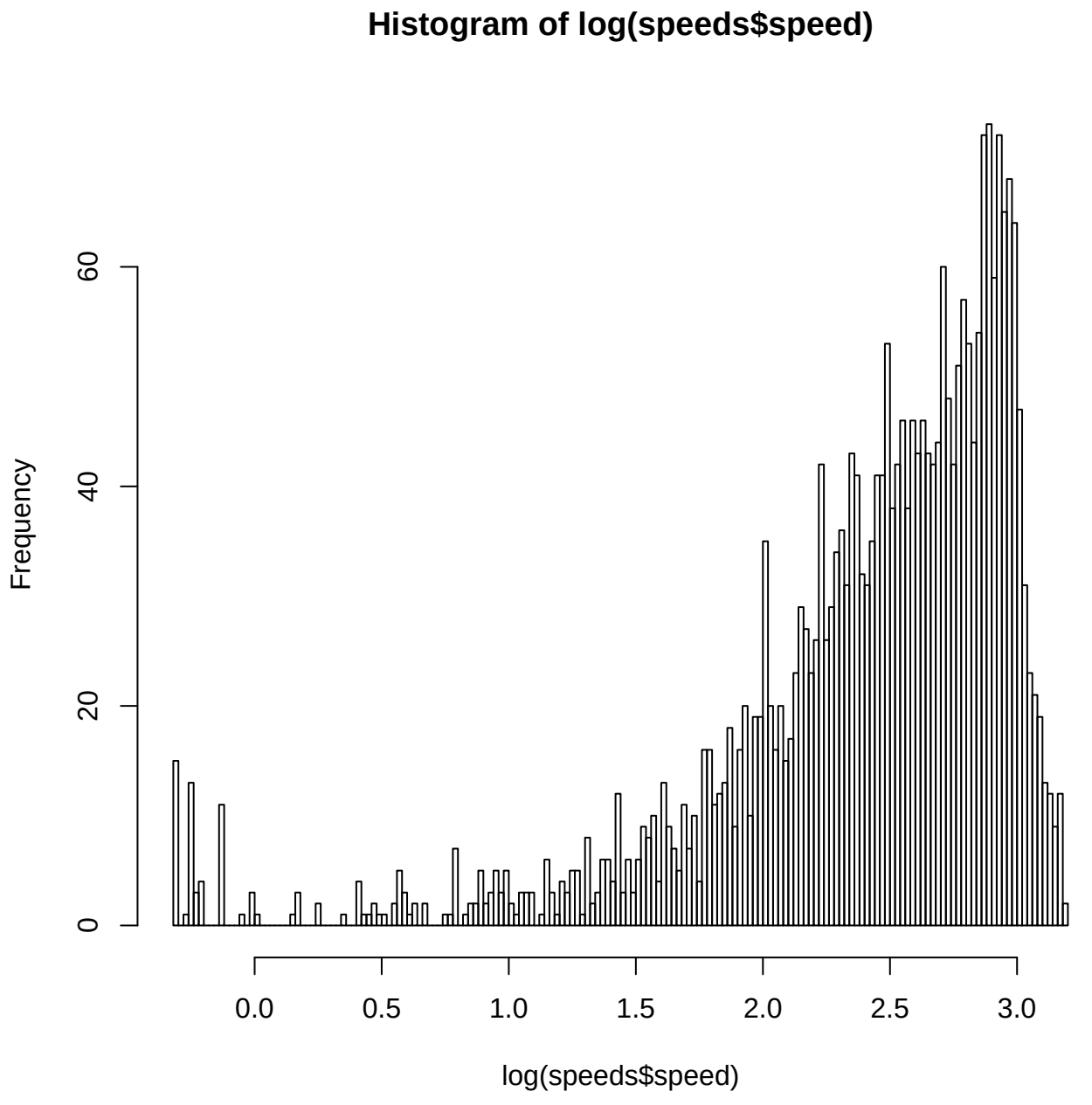

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

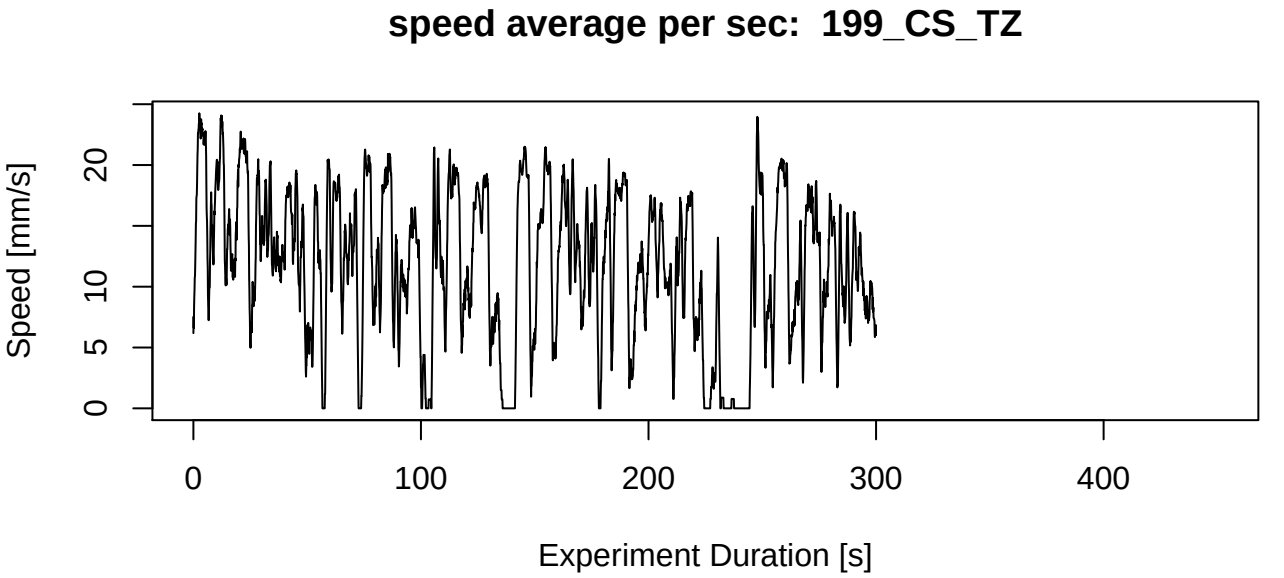

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

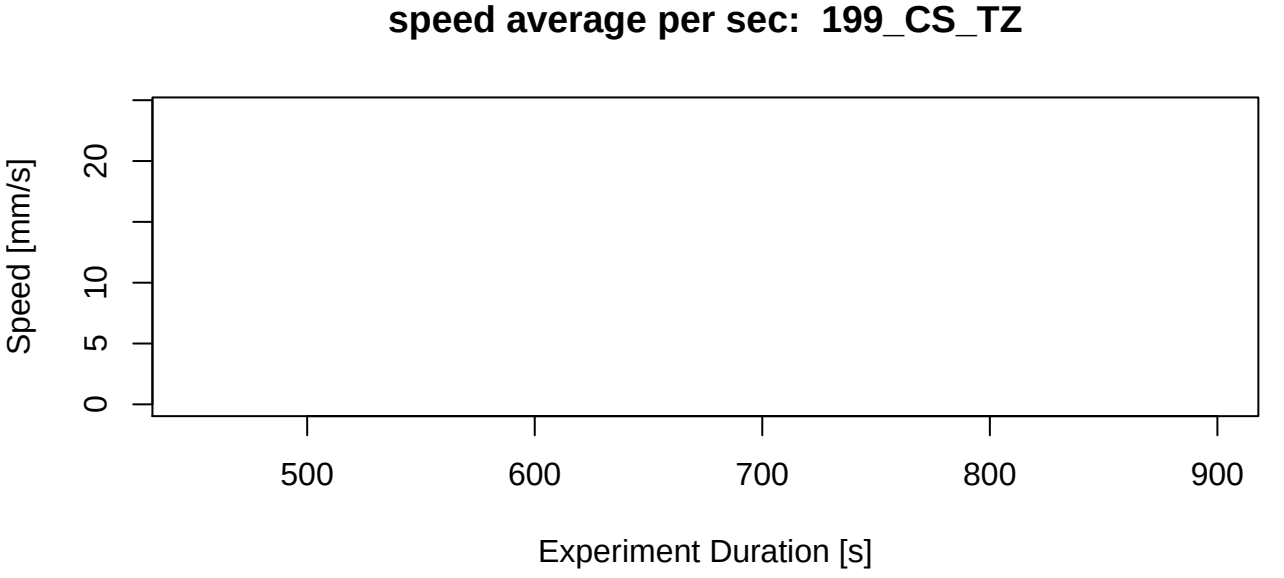

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

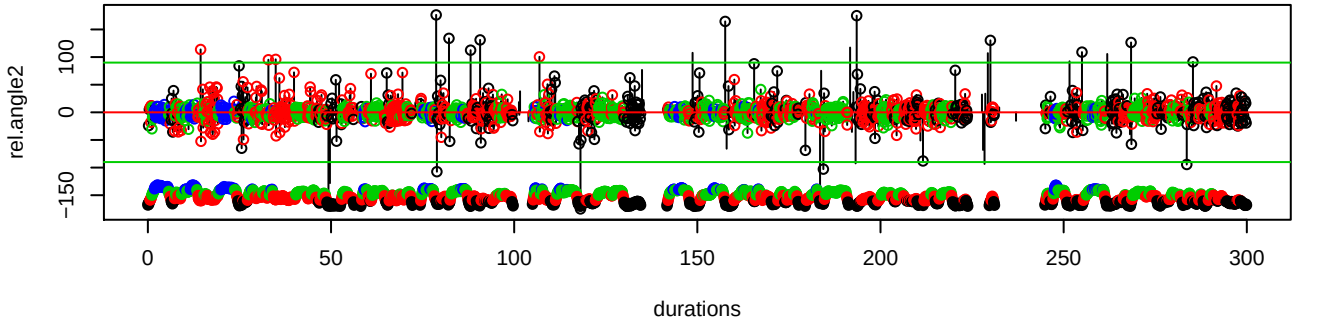

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

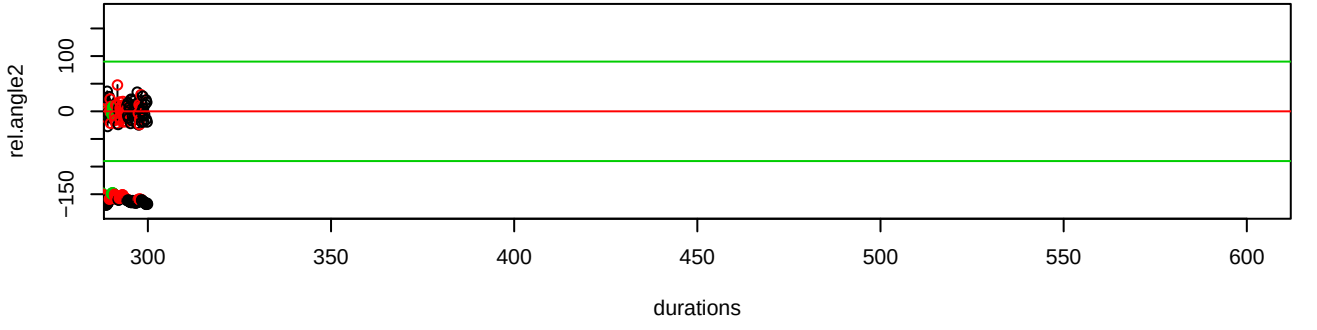

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

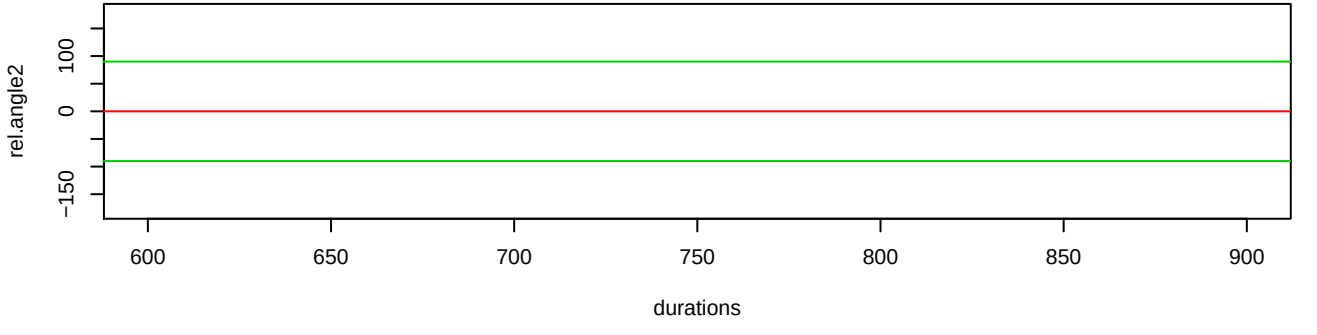

Histogram of log(speeds$speed)
Frequency
0
20
40
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

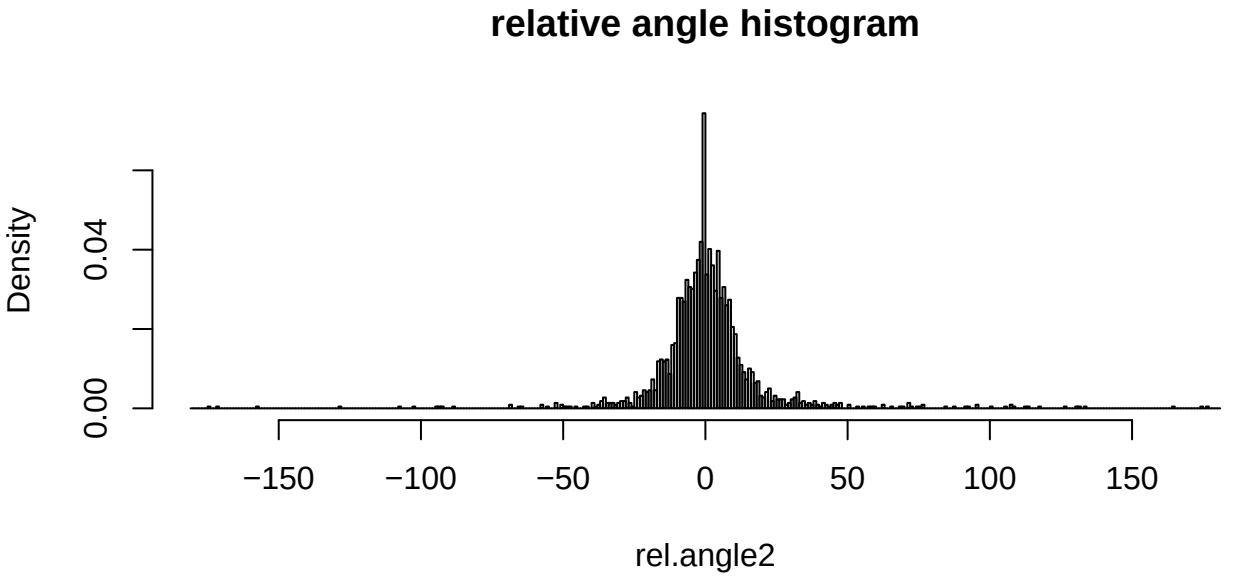

speed average per sec: 199_CS_TZ
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

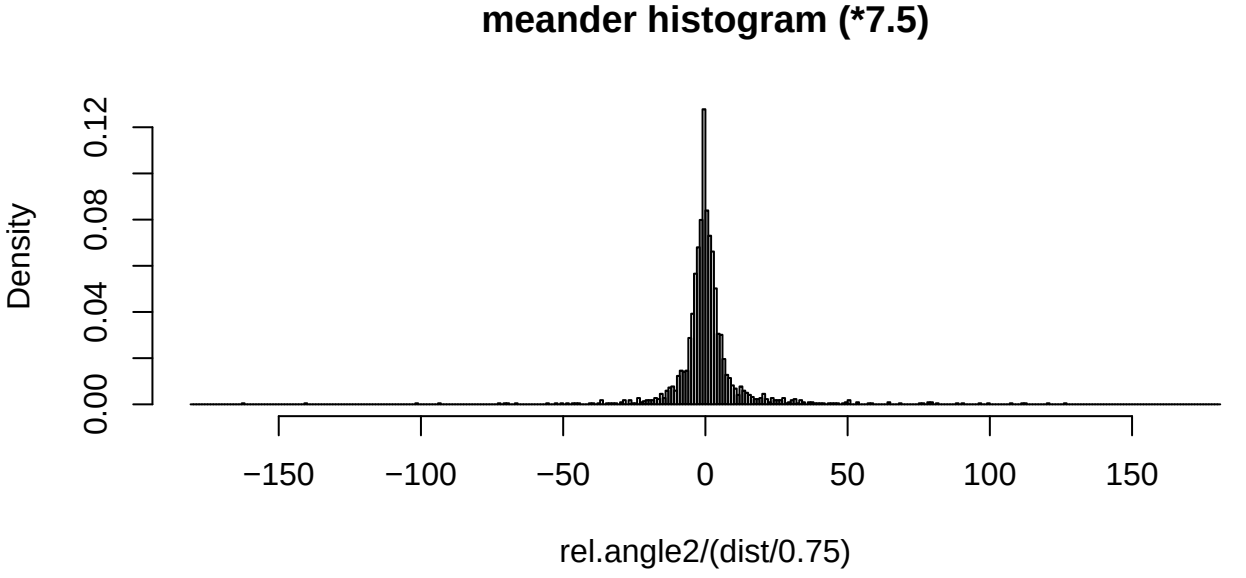

speed average per sec: 199_CS_TZ
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

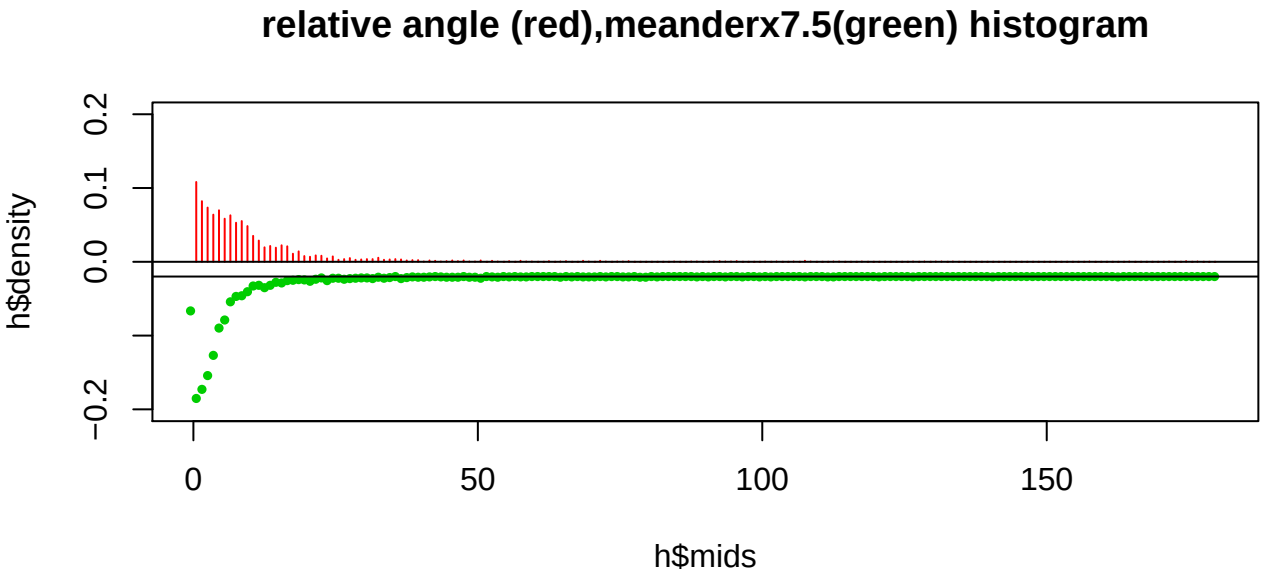

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

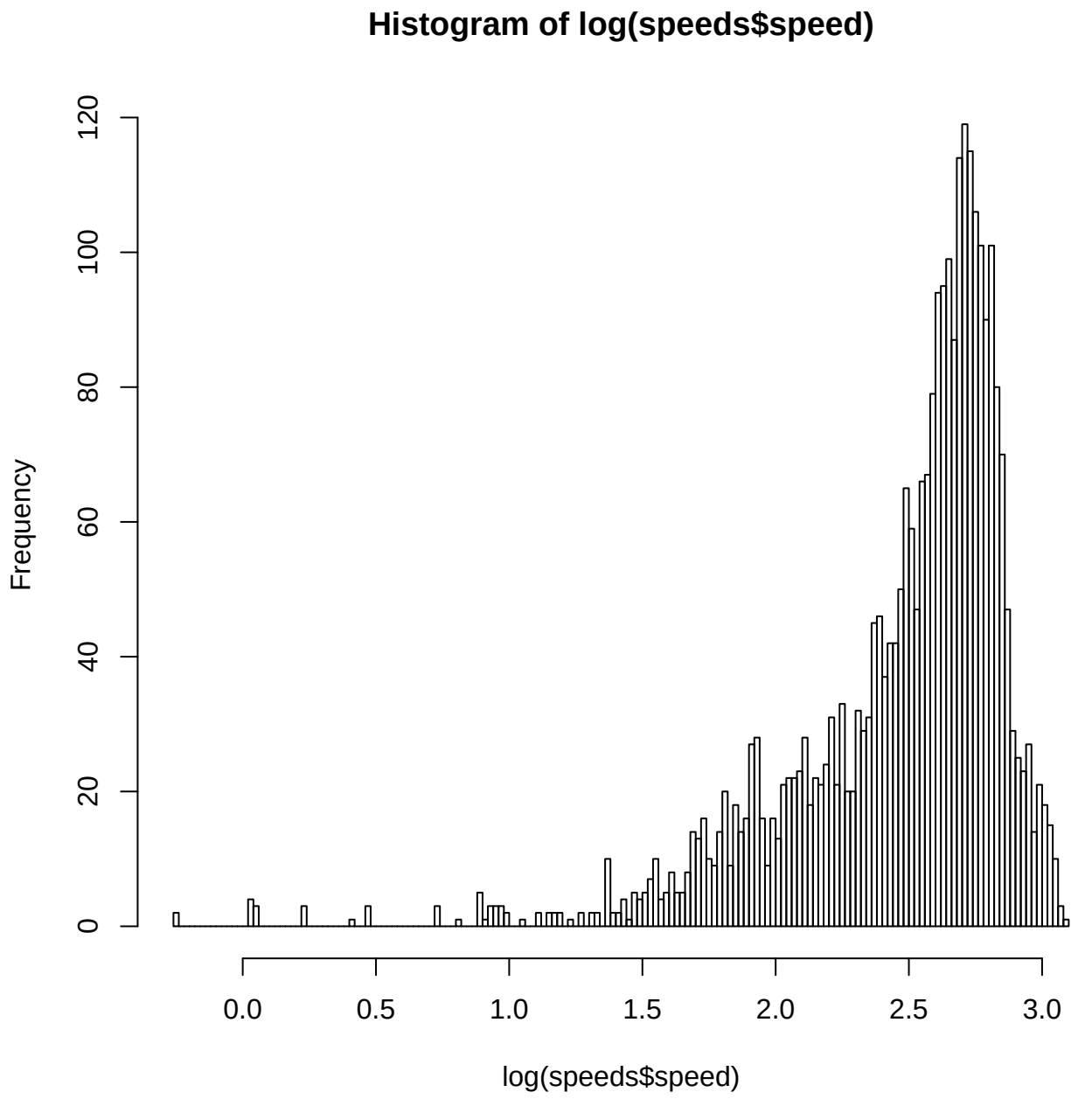

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

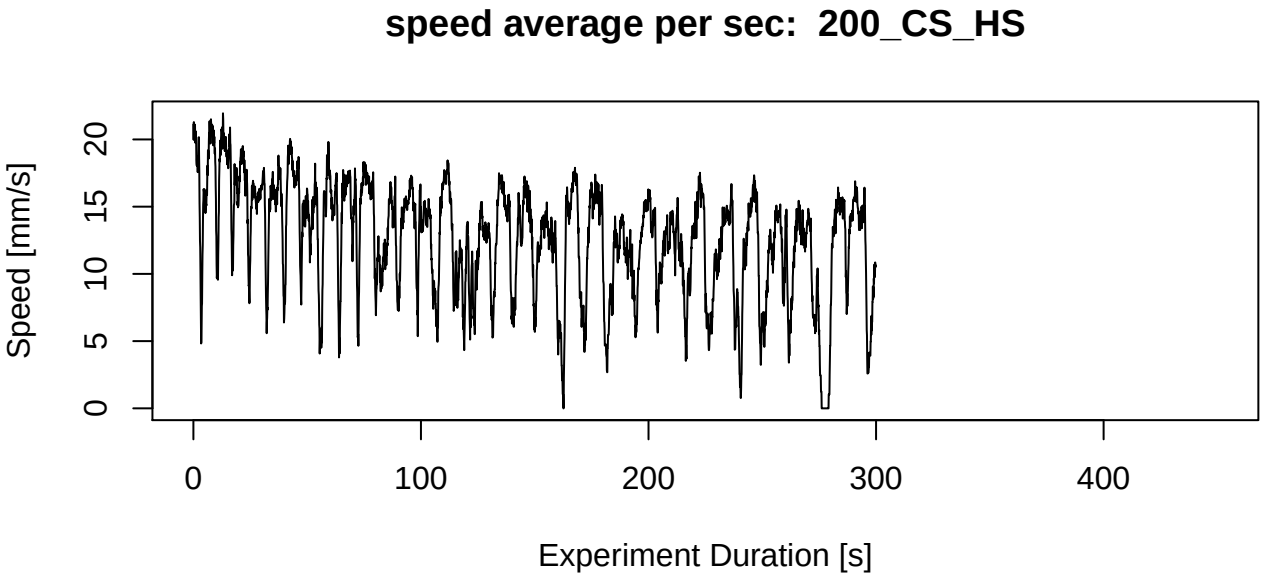

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

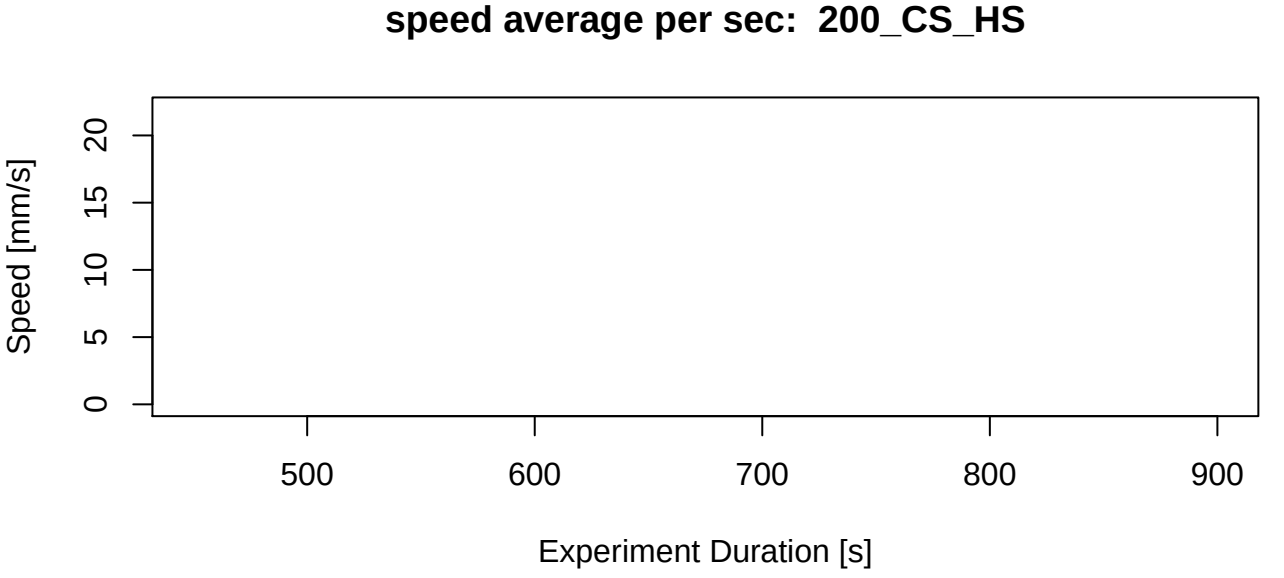

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

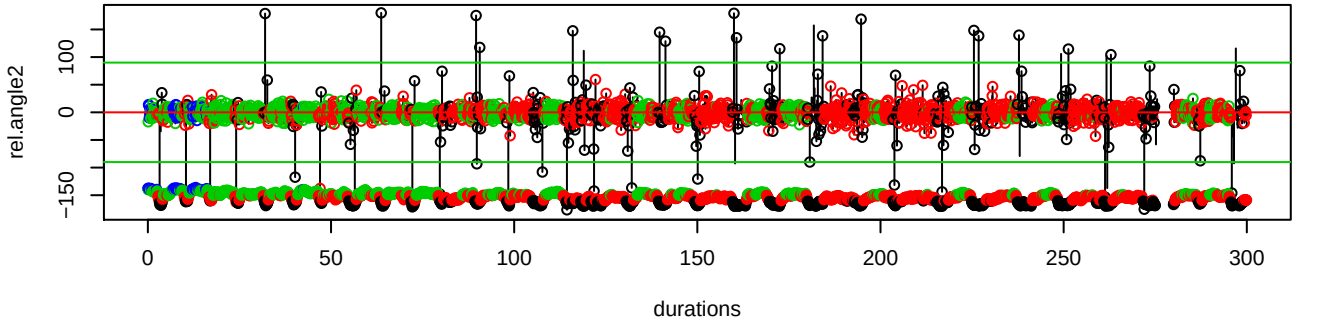

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

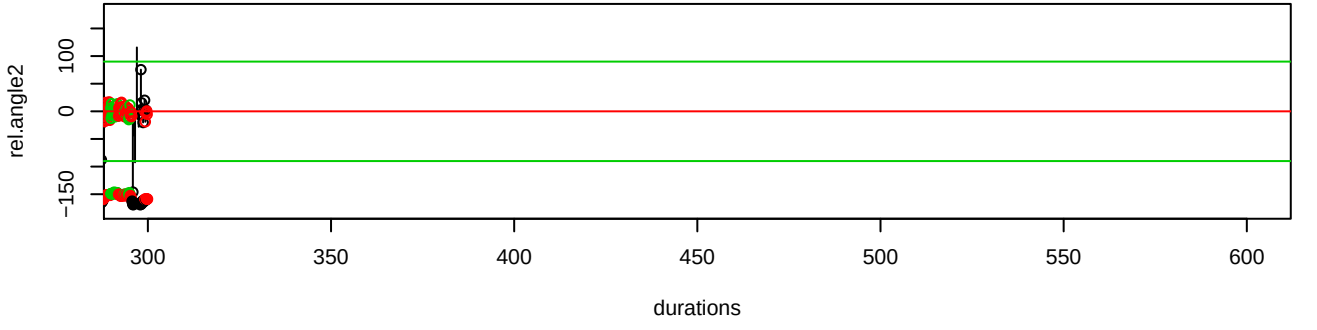

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

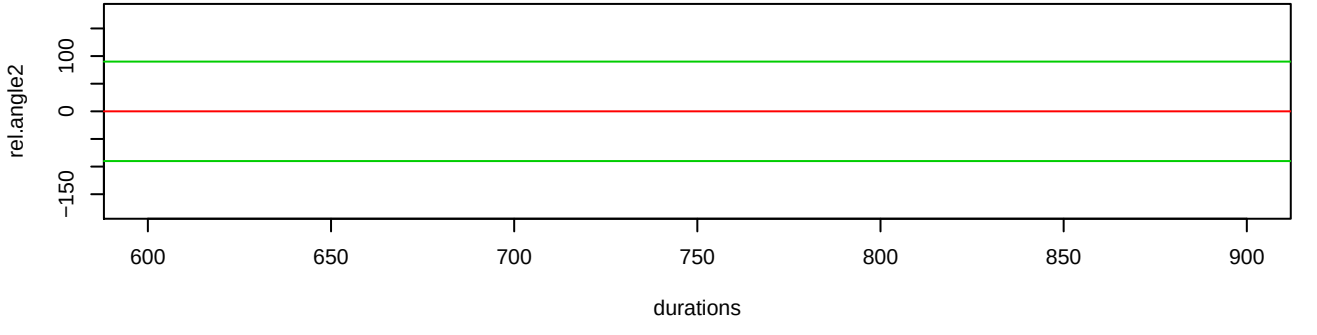

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

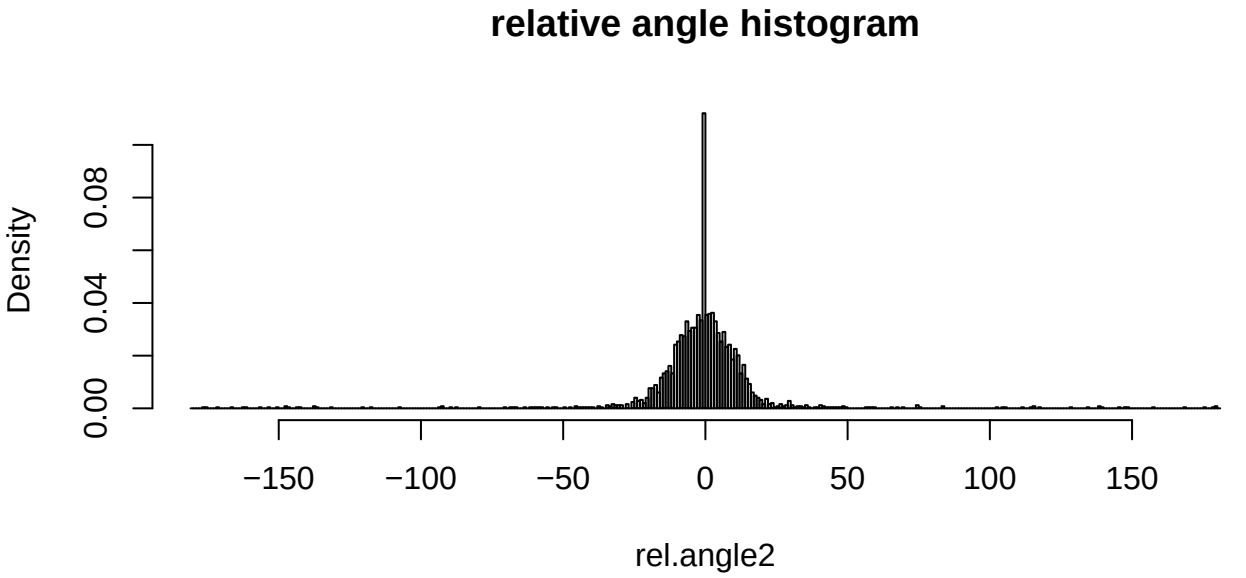

speed average per sec: 200_CS_HS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

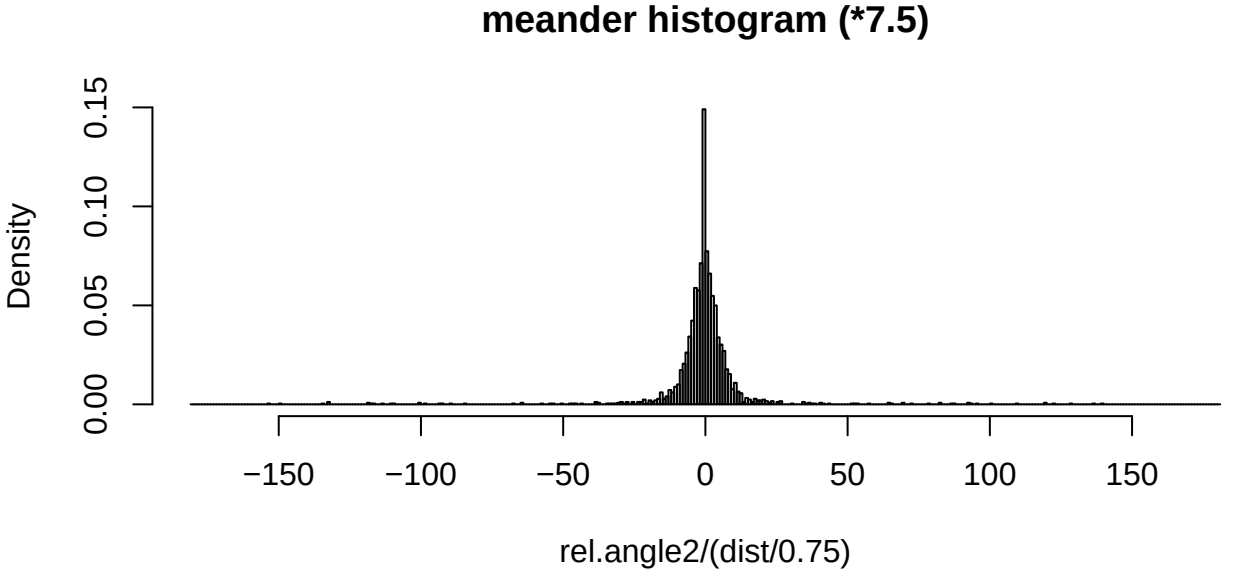

speed average per sec: 200_CS_HS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

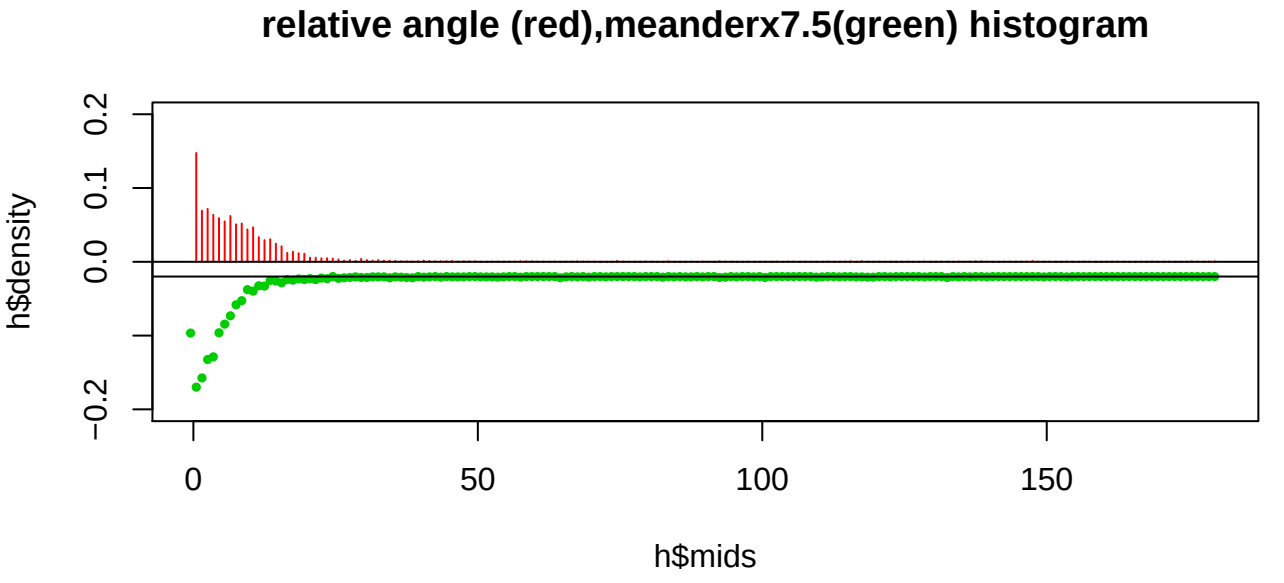

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

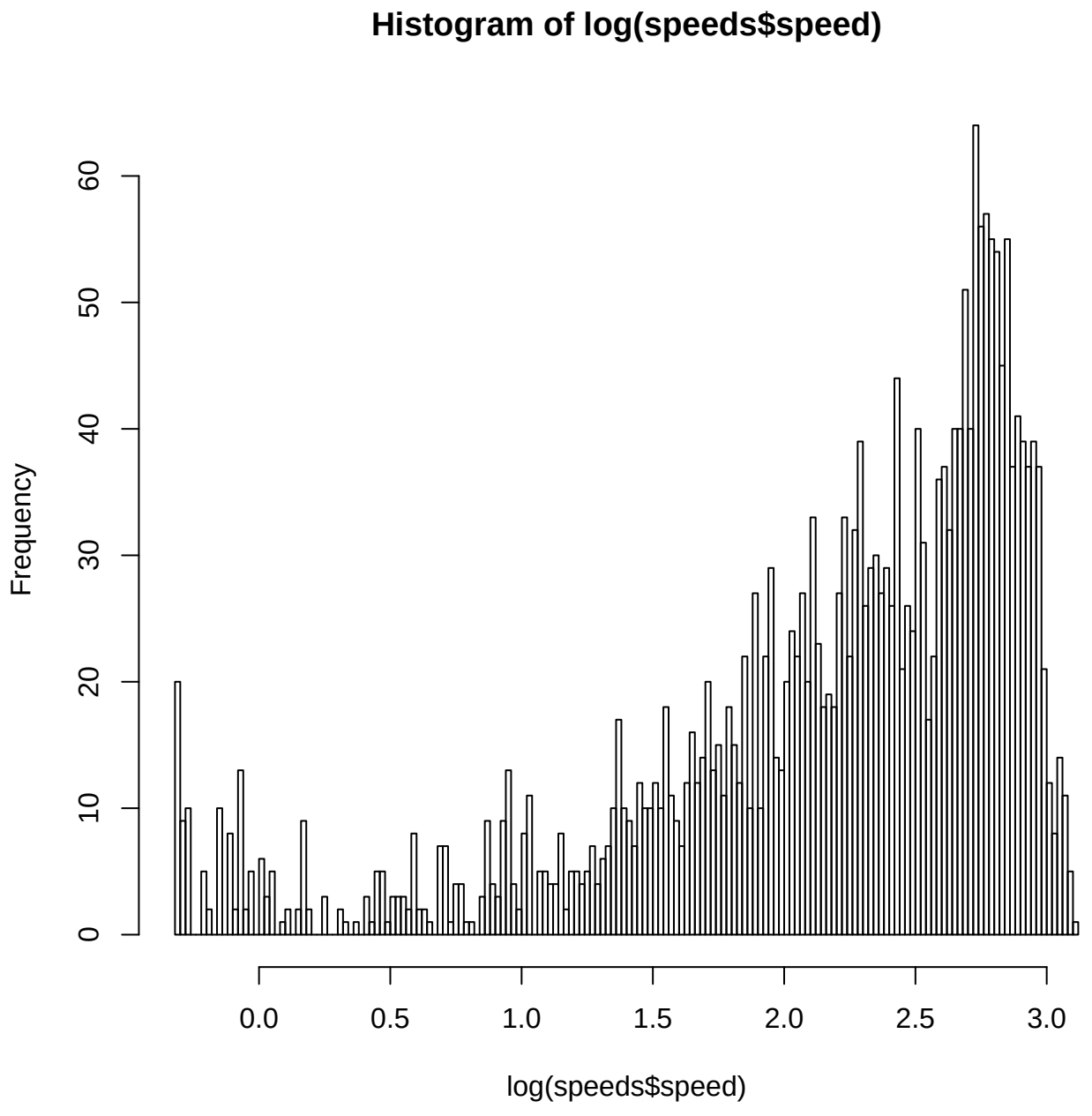

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

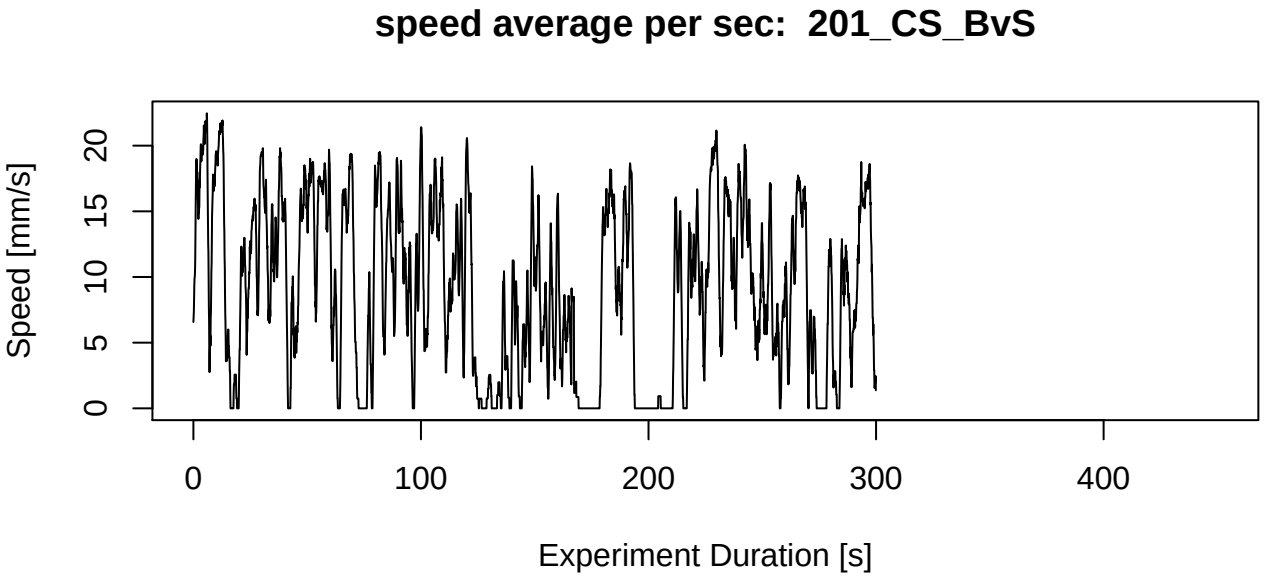

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

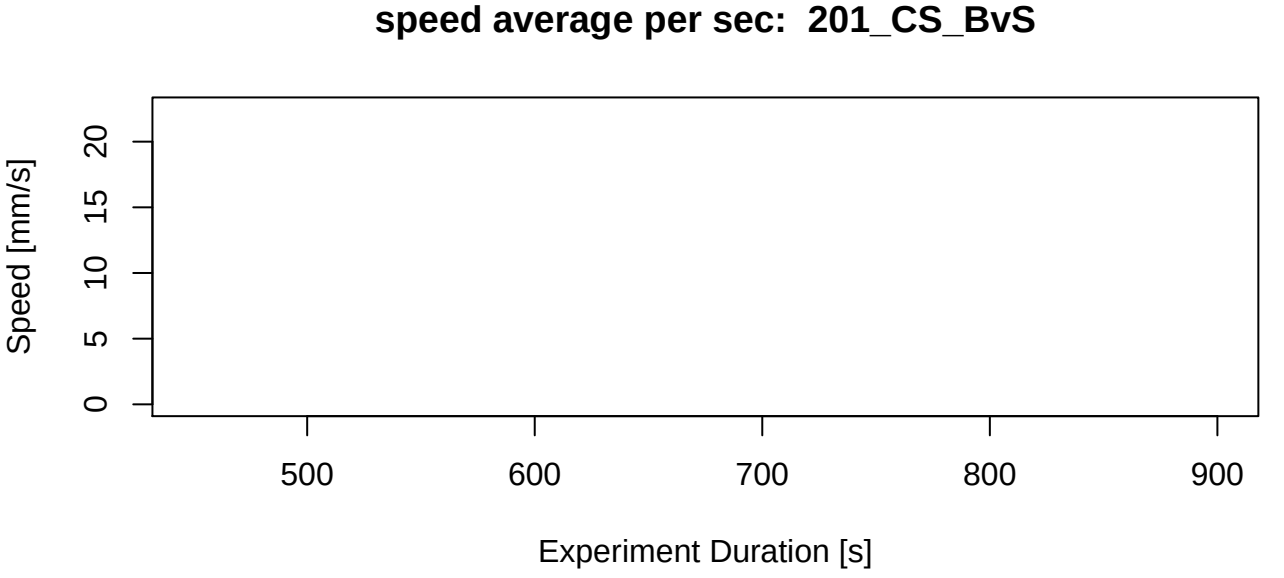

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

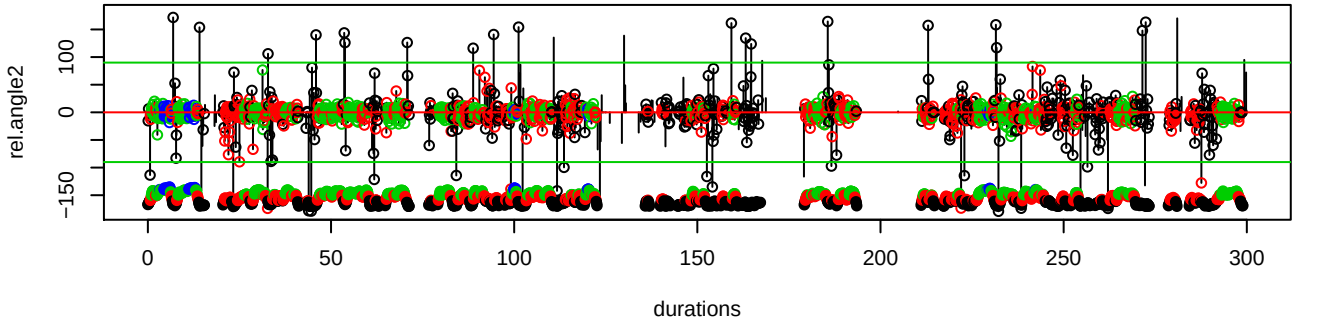

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

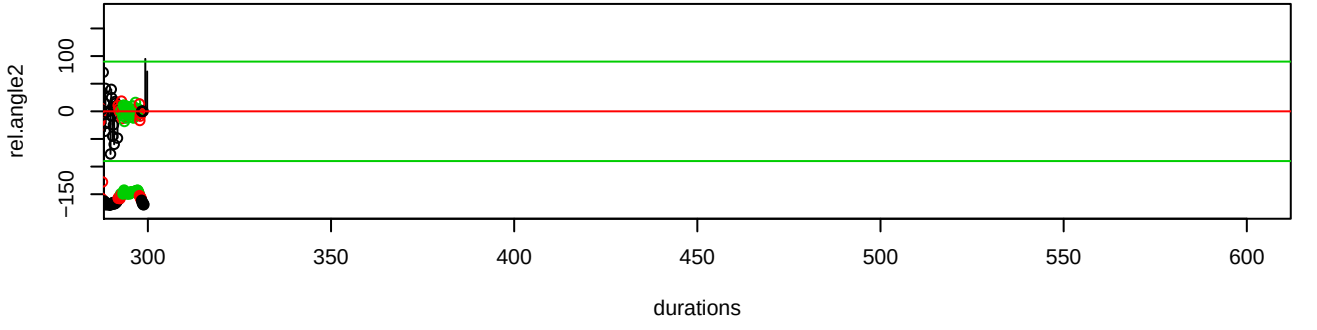

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

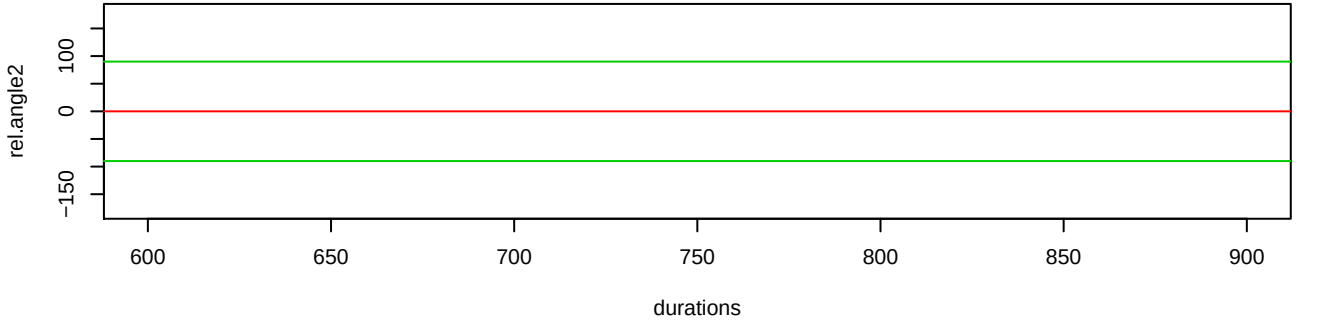

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

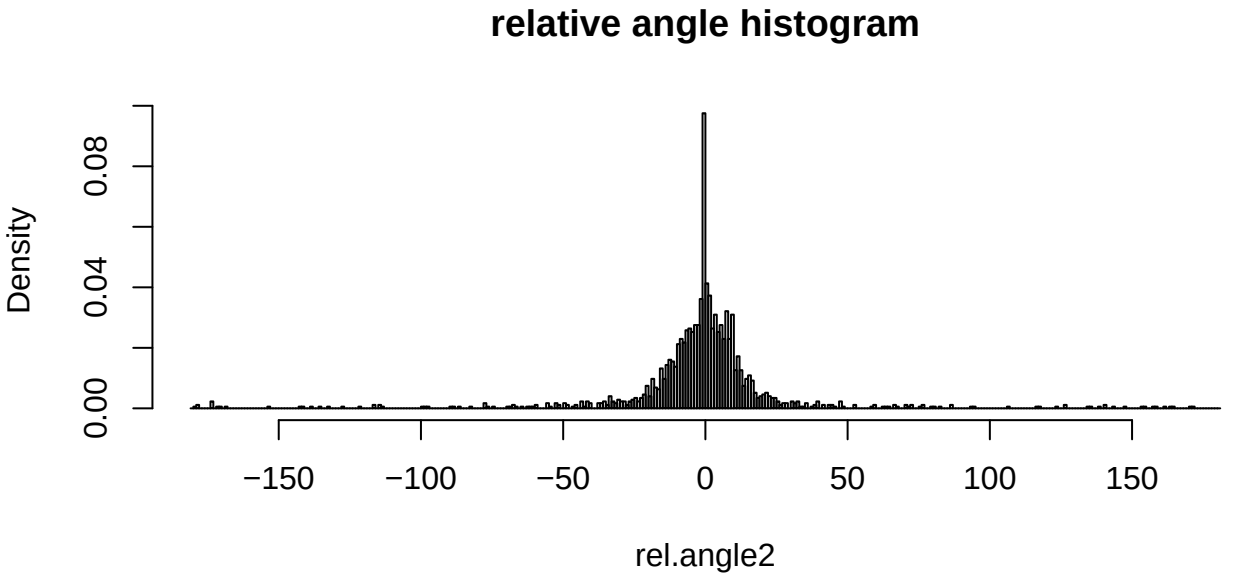

speed average per sec: 201_CS_BvS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

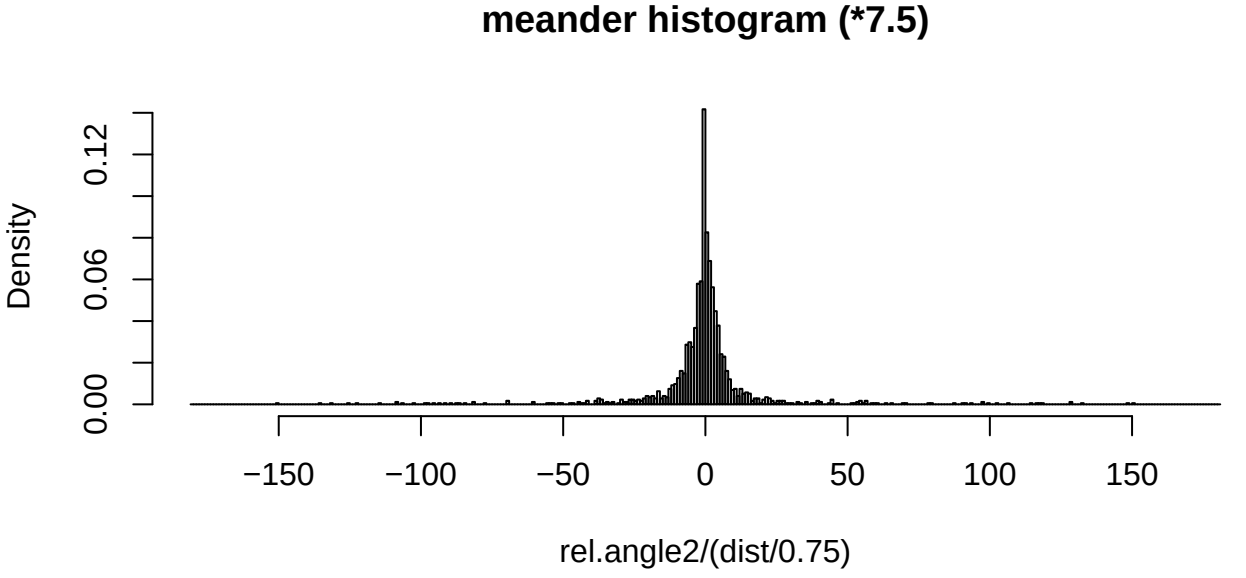

speed average per sec: 201_CS_BvS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

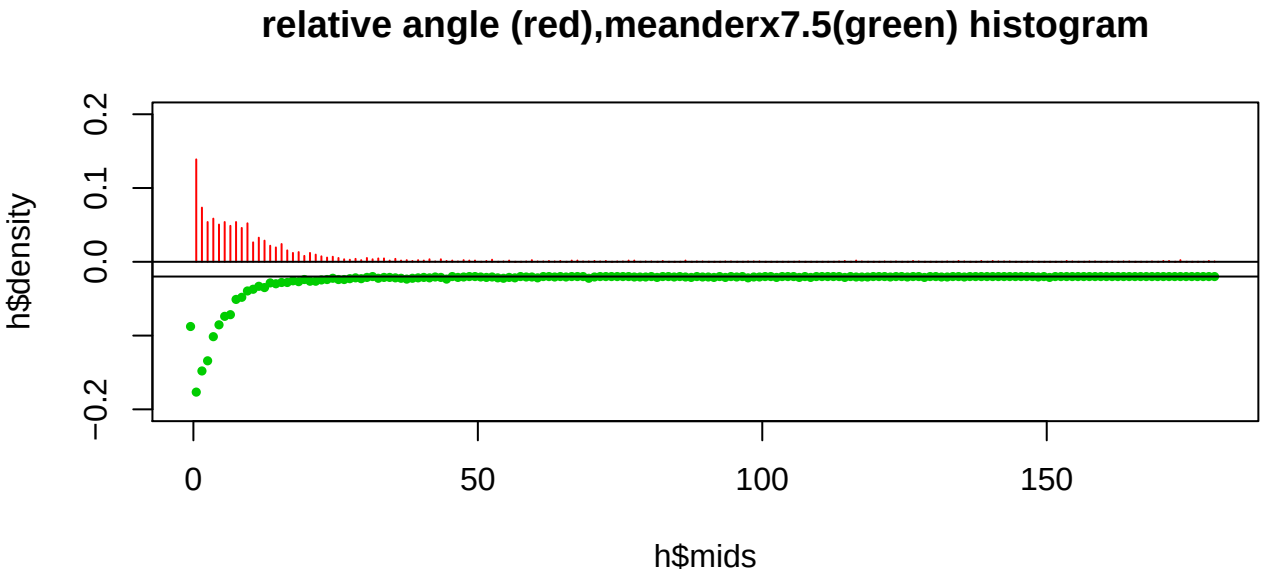

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

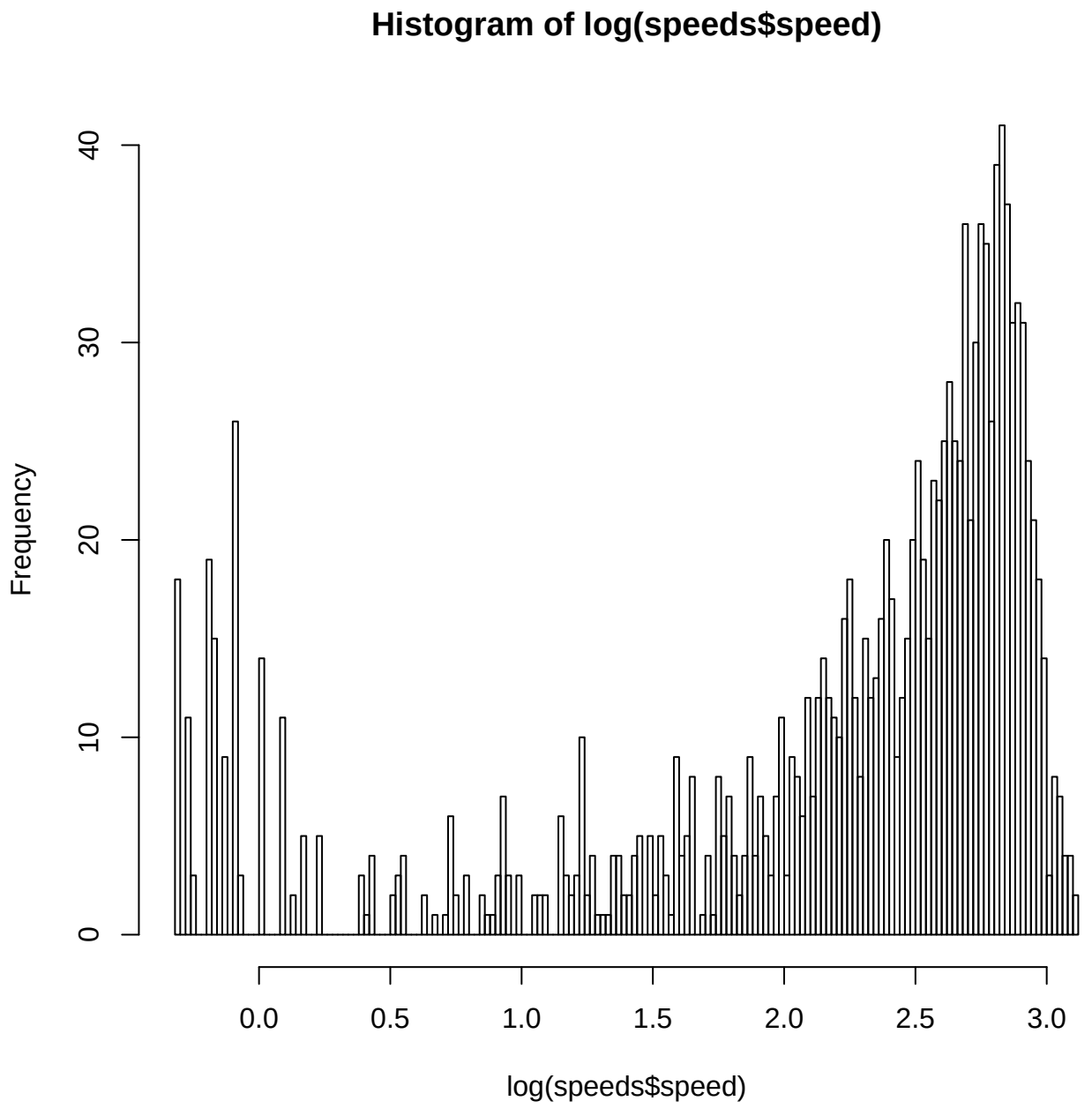

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

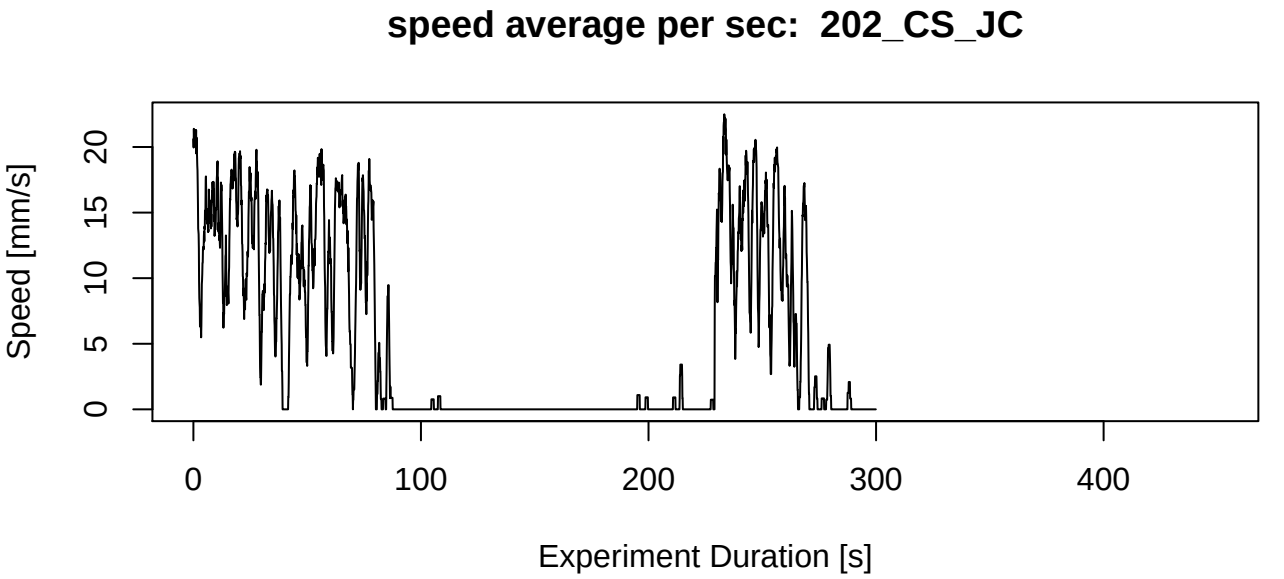

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

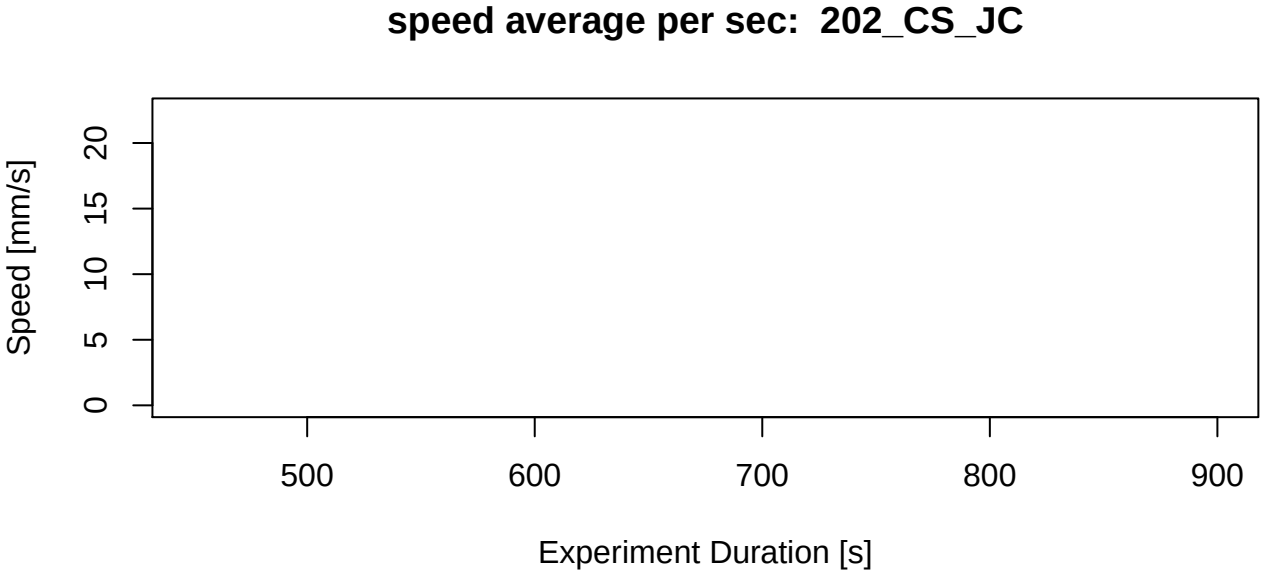

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

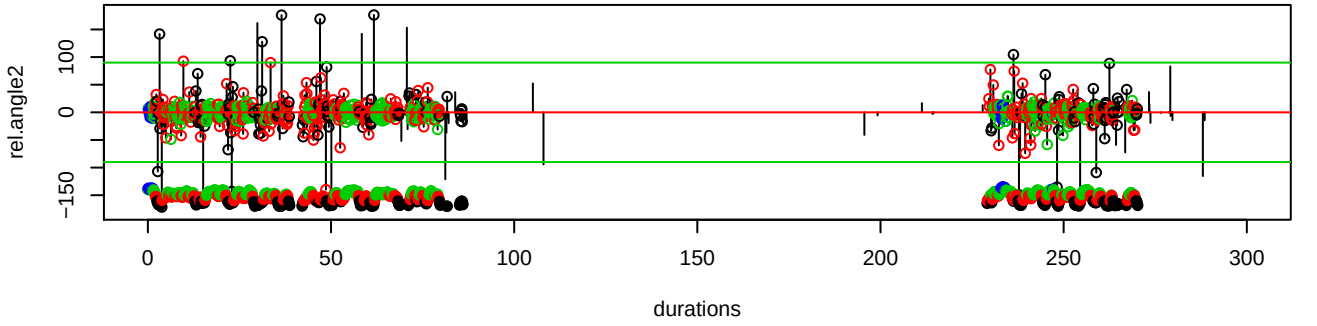

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

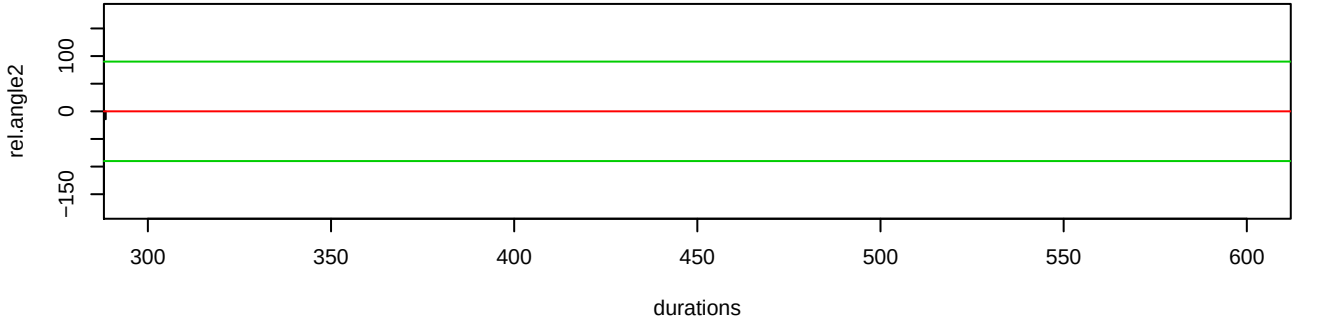

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

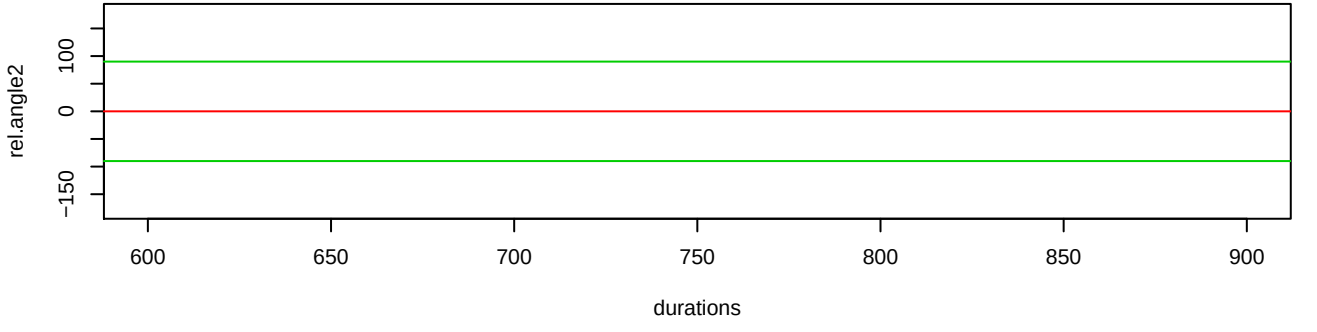

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

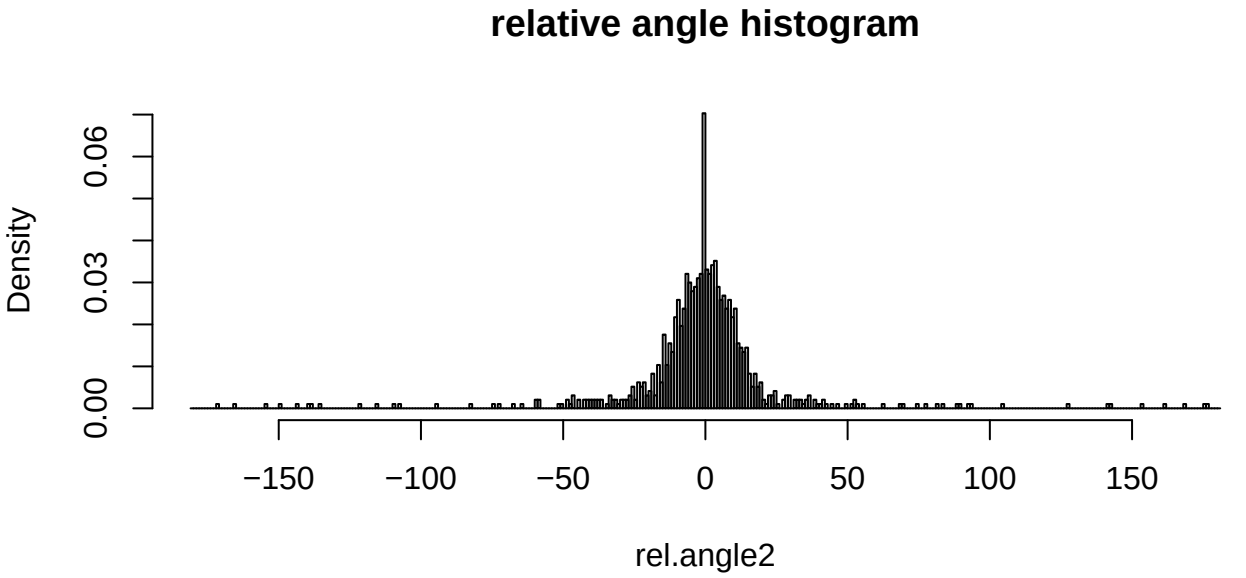

speed average per sec: 202_CS_JC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

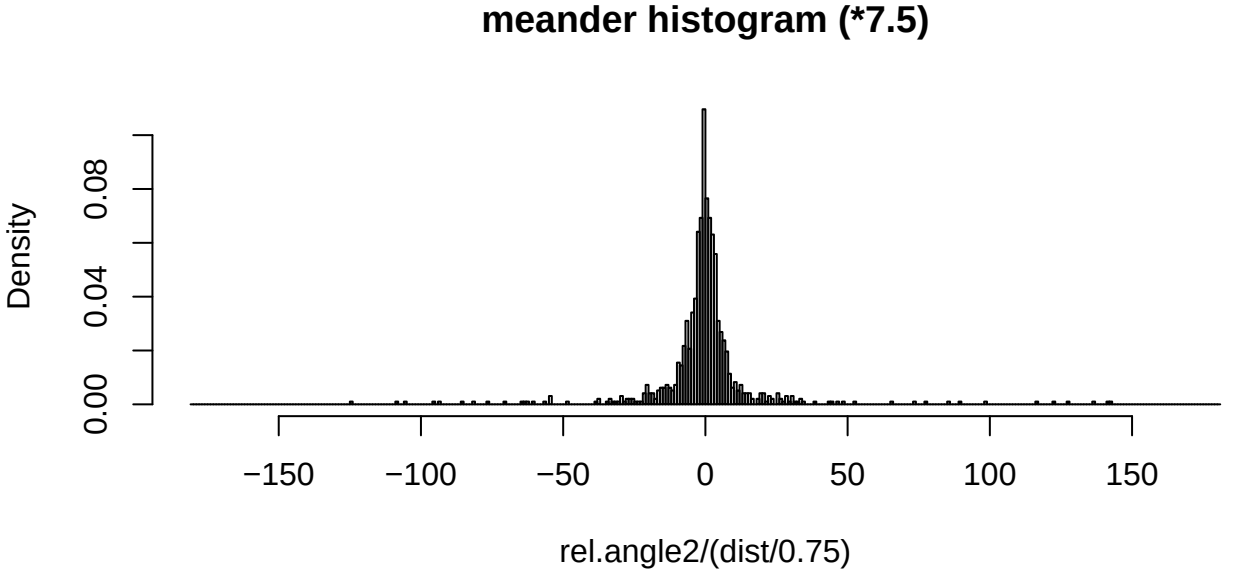

speed average per sec: 202_CS_JC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

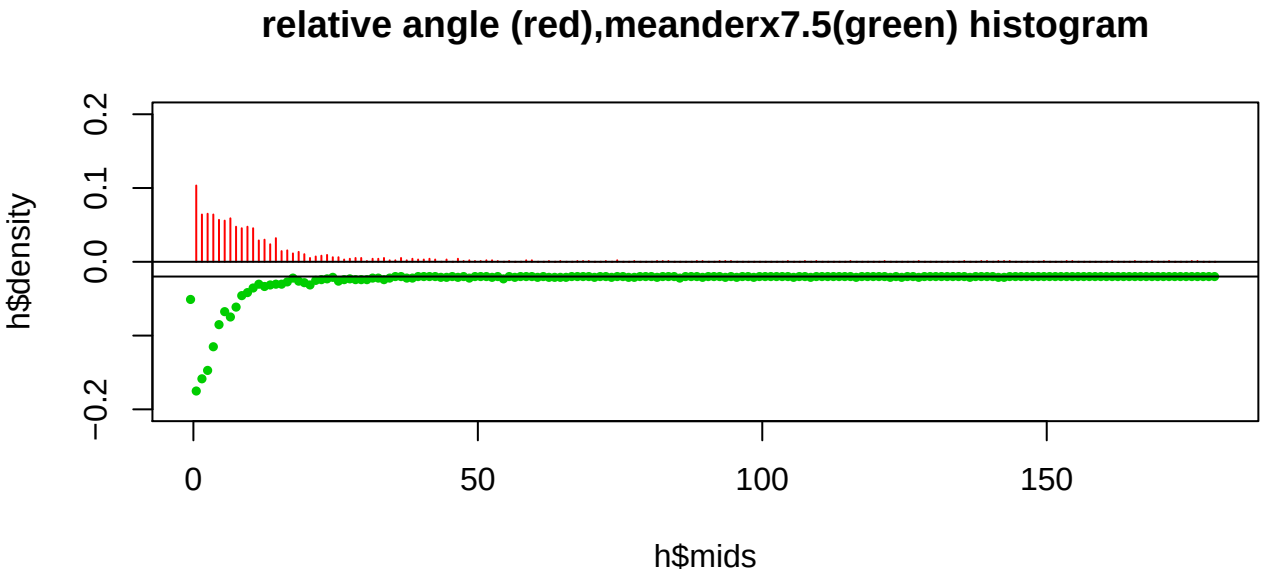

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

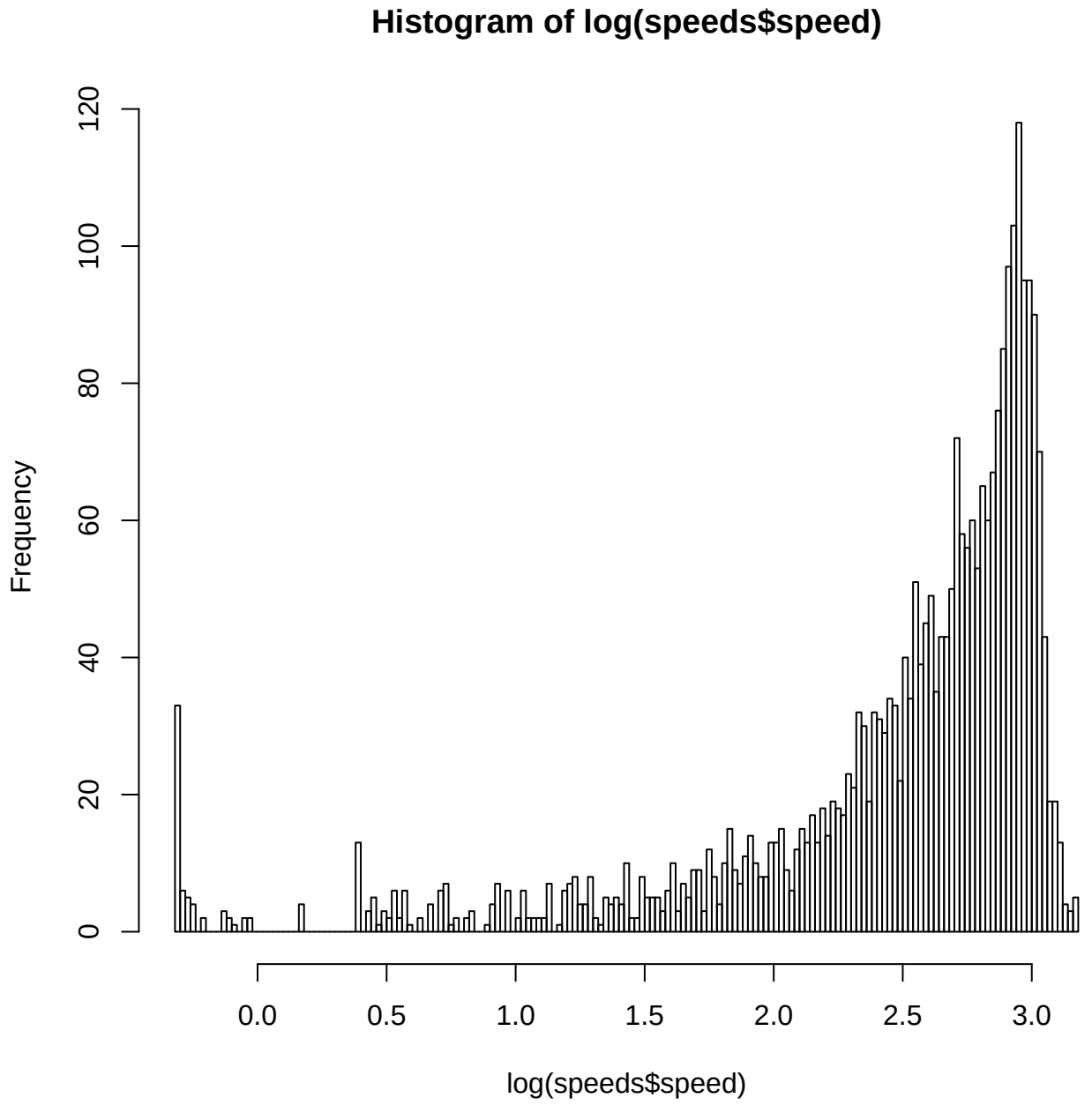

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

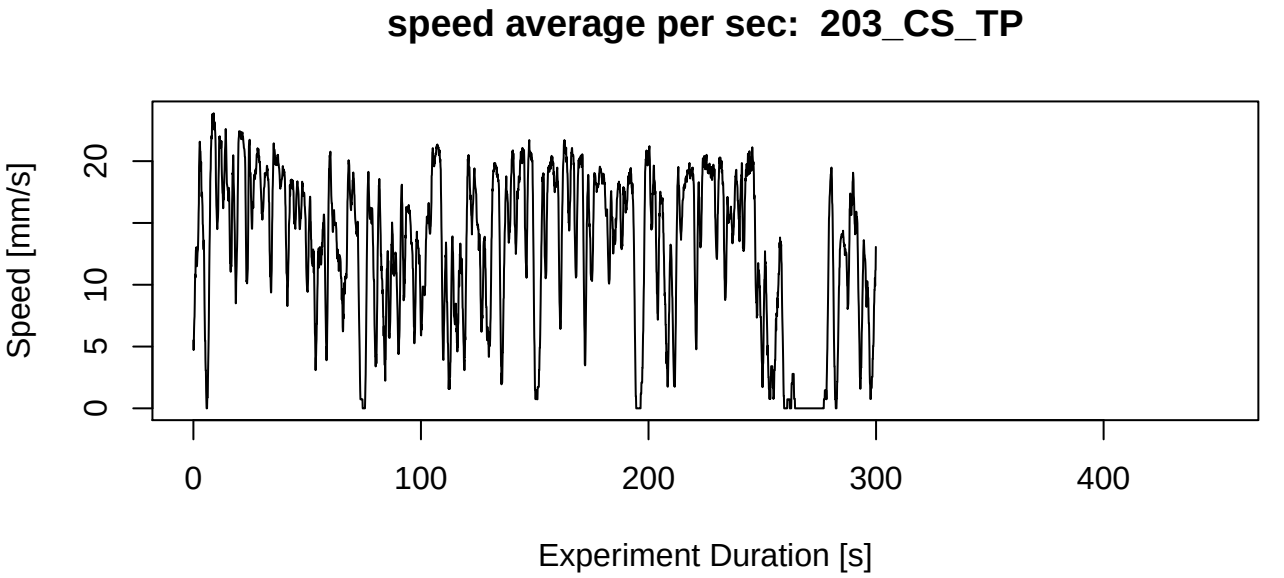

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

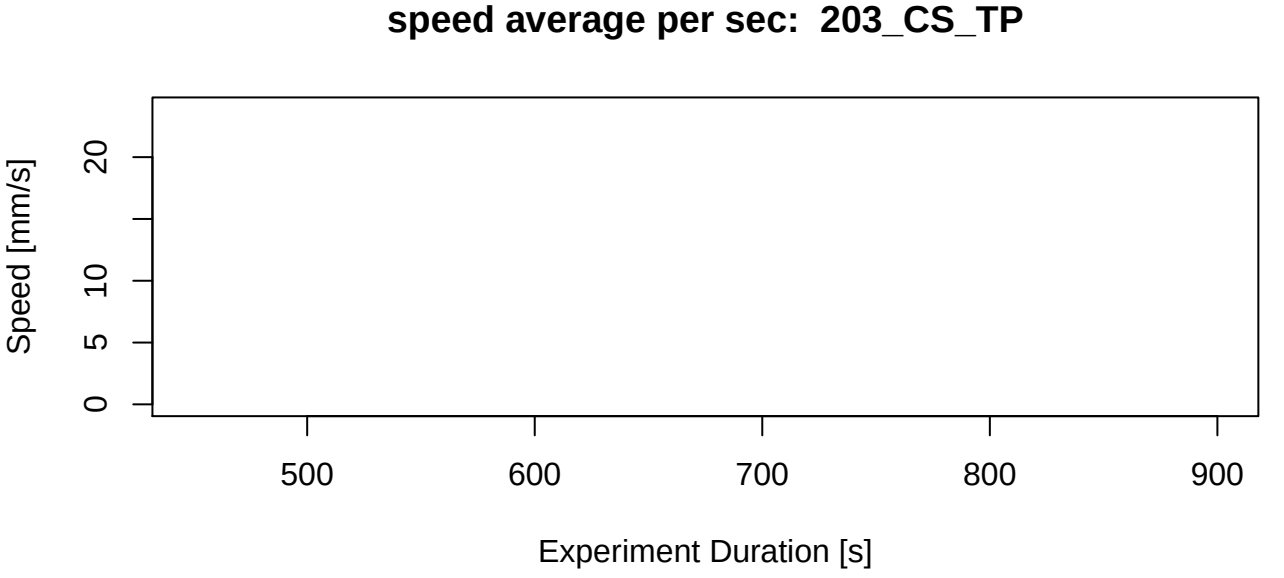

relative angle histogram
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2

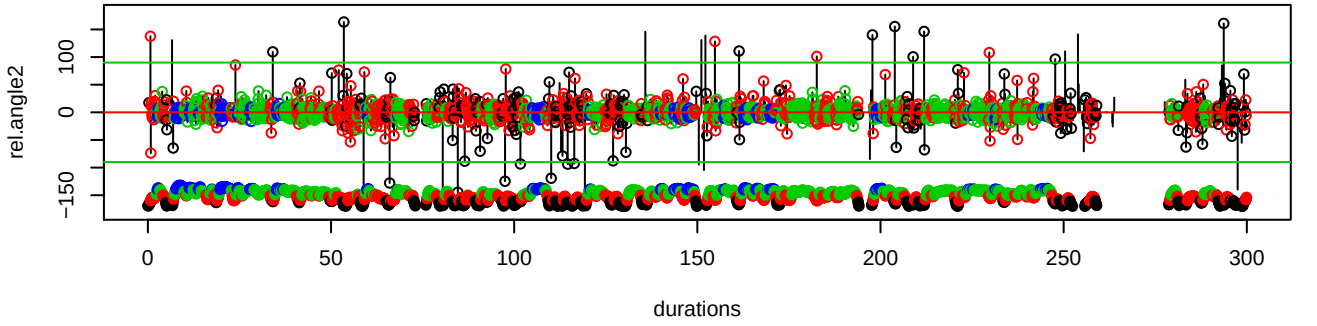

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

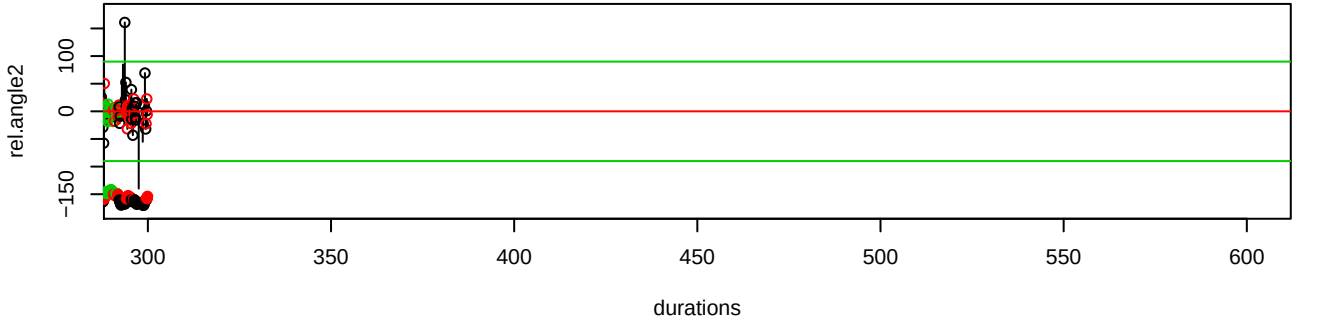

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

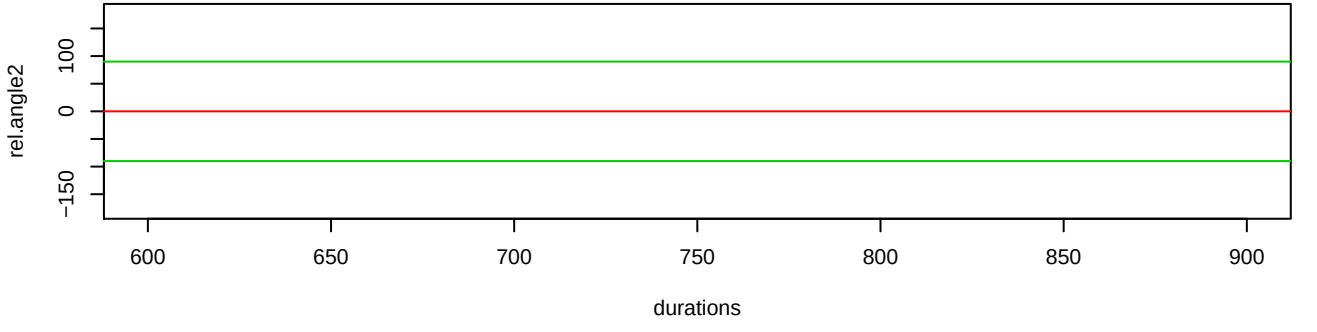

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

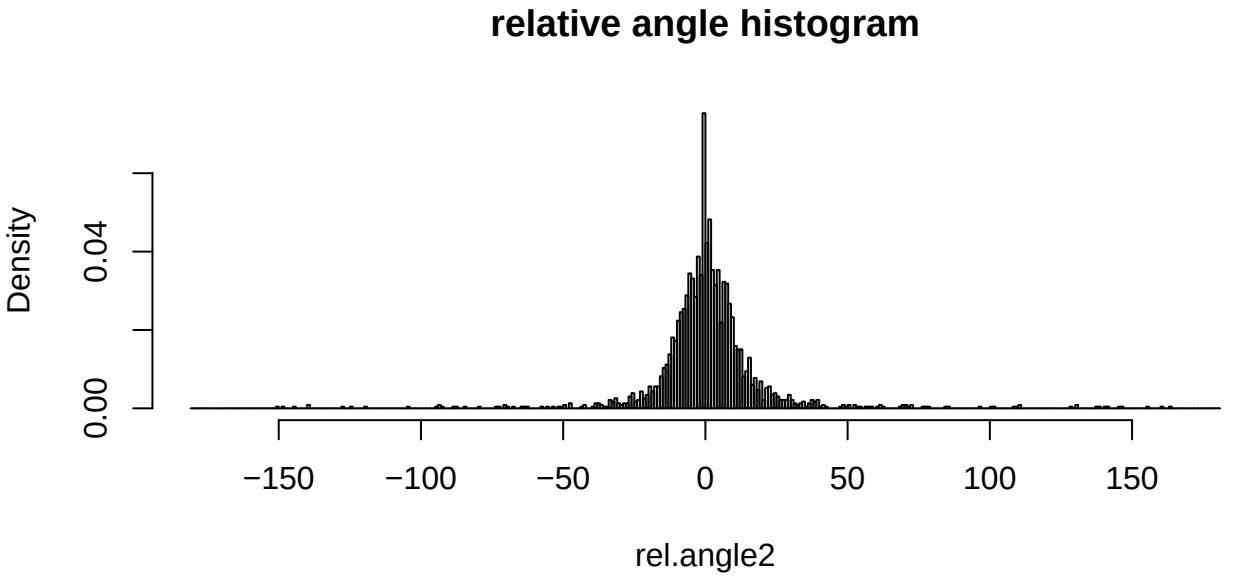

speed average per sec: 203_CS_TP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

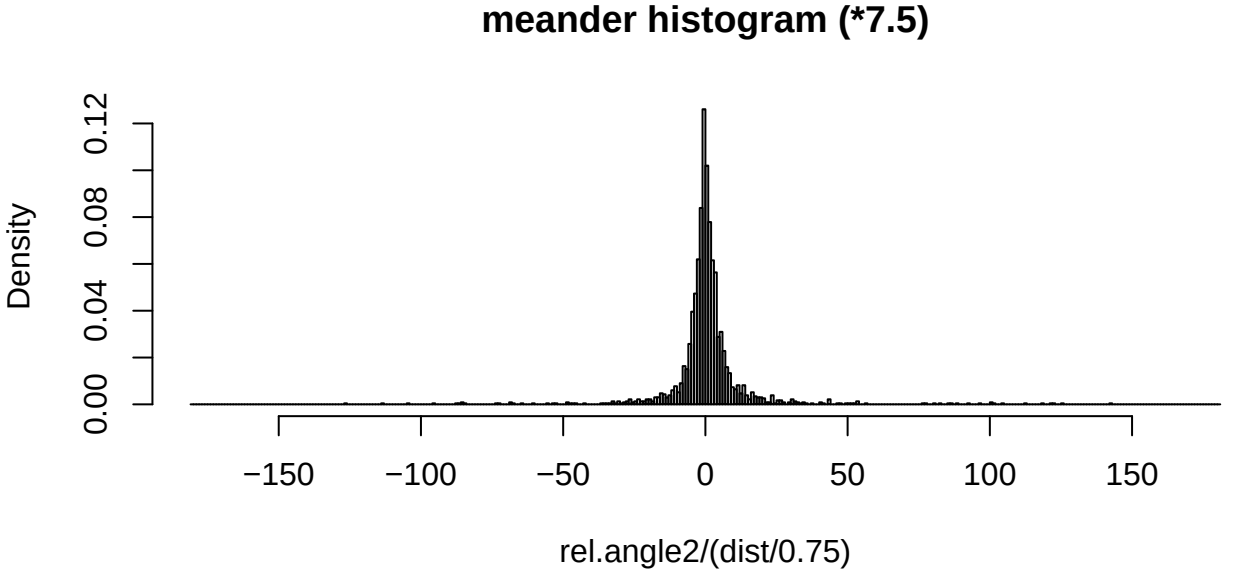

speed average per sec: 203_CS_TP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

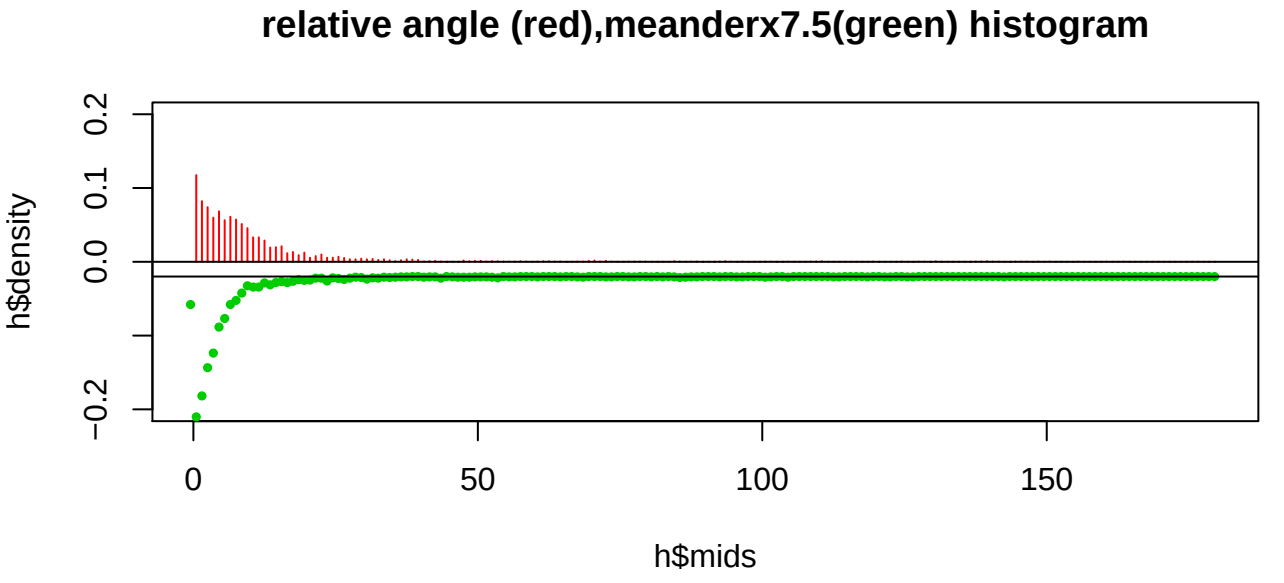

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

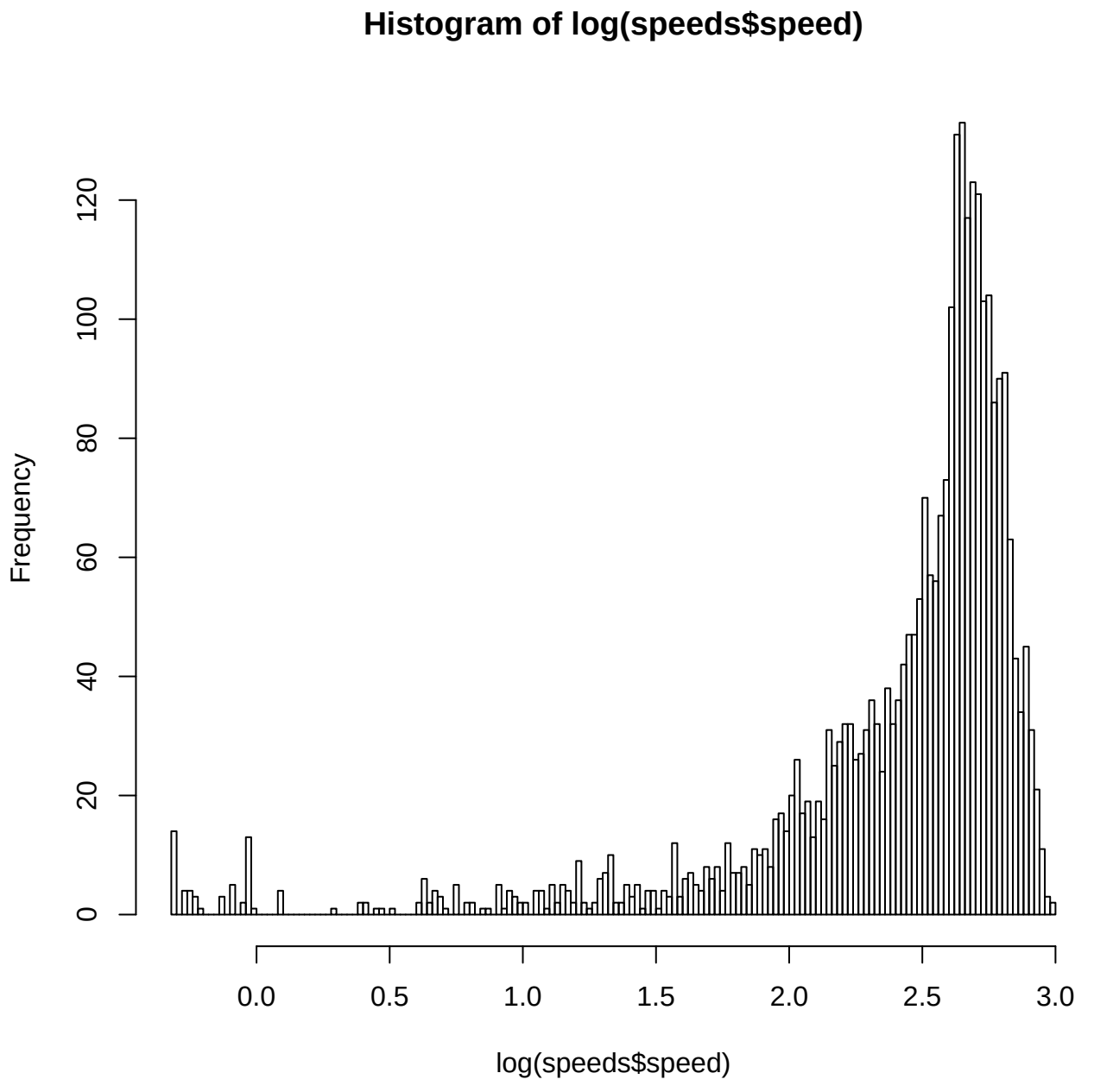

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

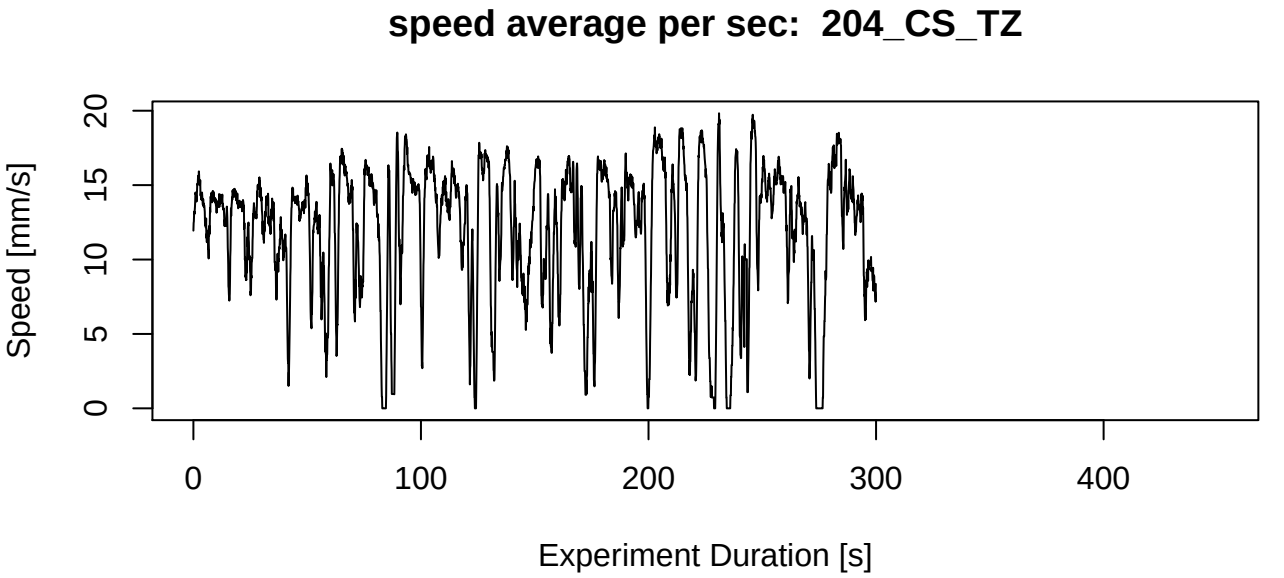

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

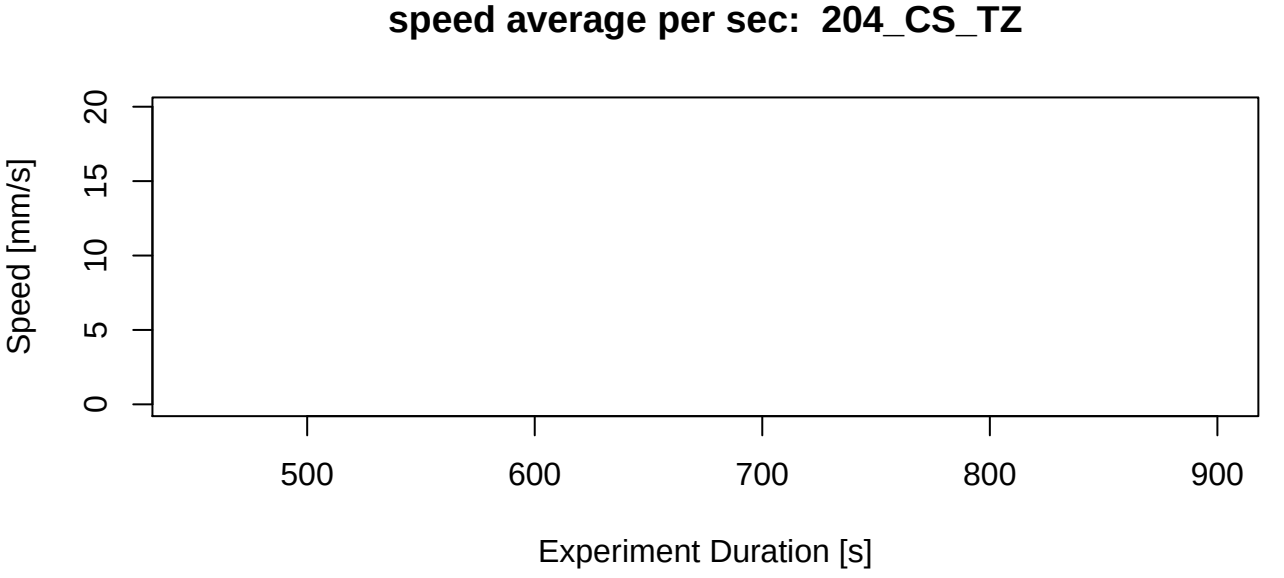

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

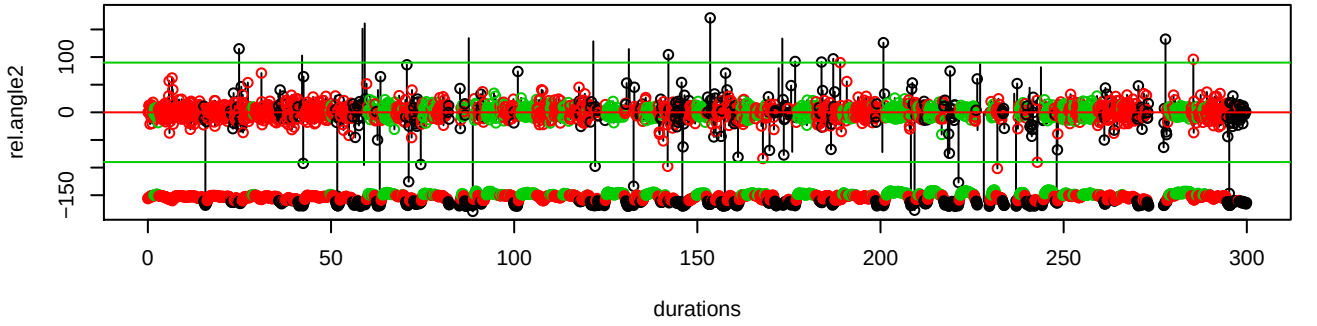

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

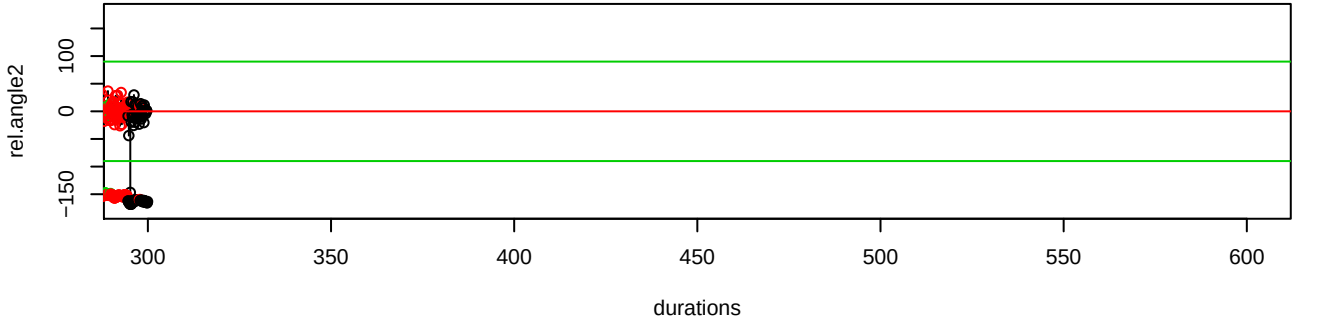

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

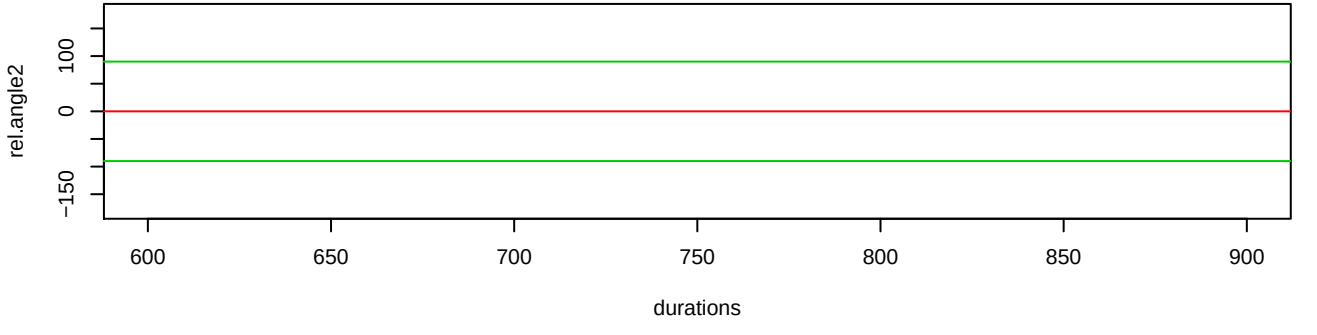

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

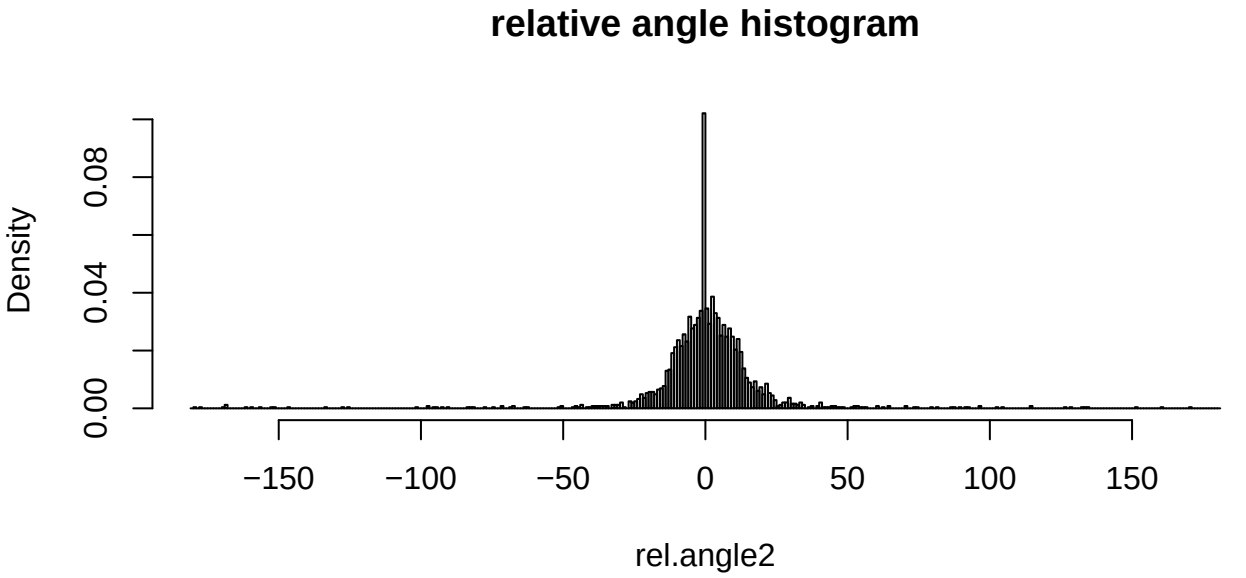

speed average per sec: 204_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

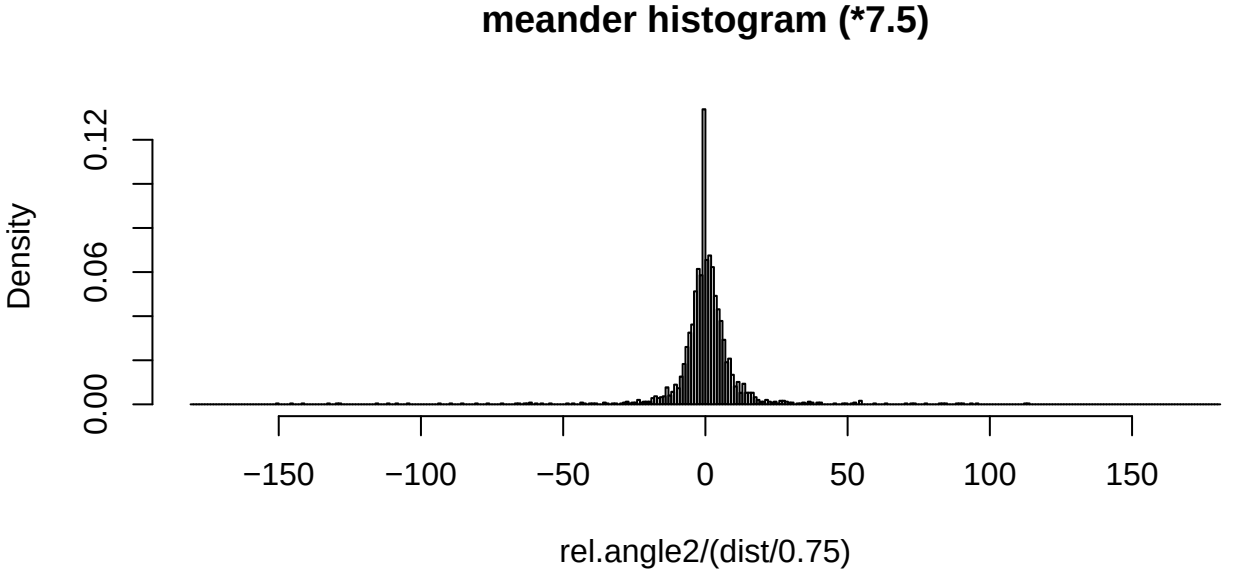

speed average per sec: 204_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

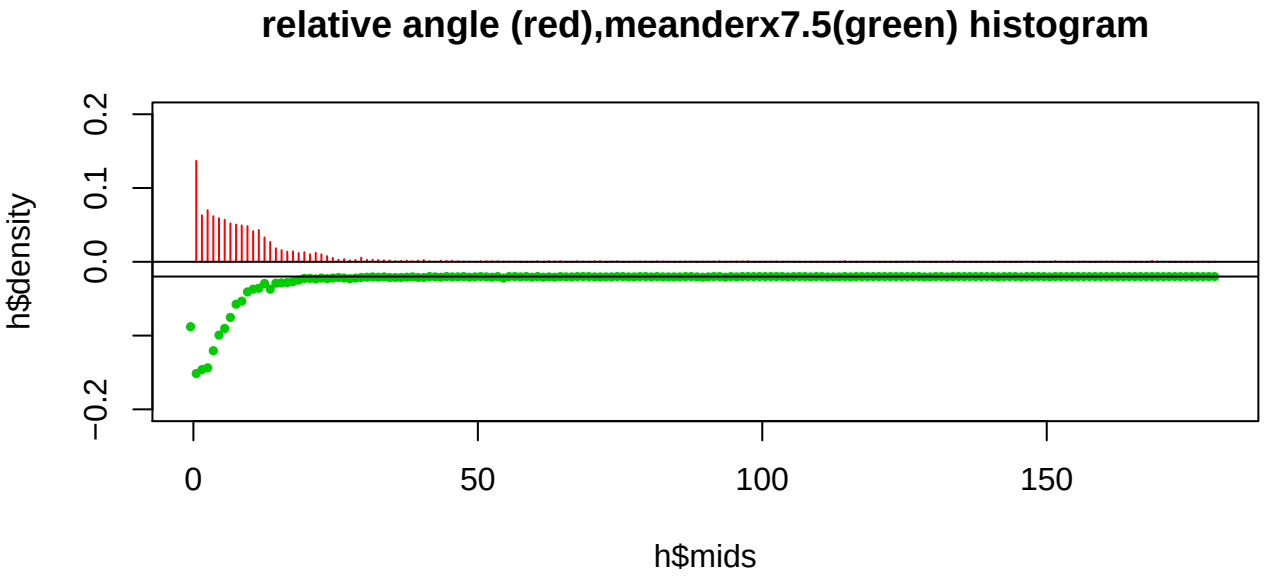

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

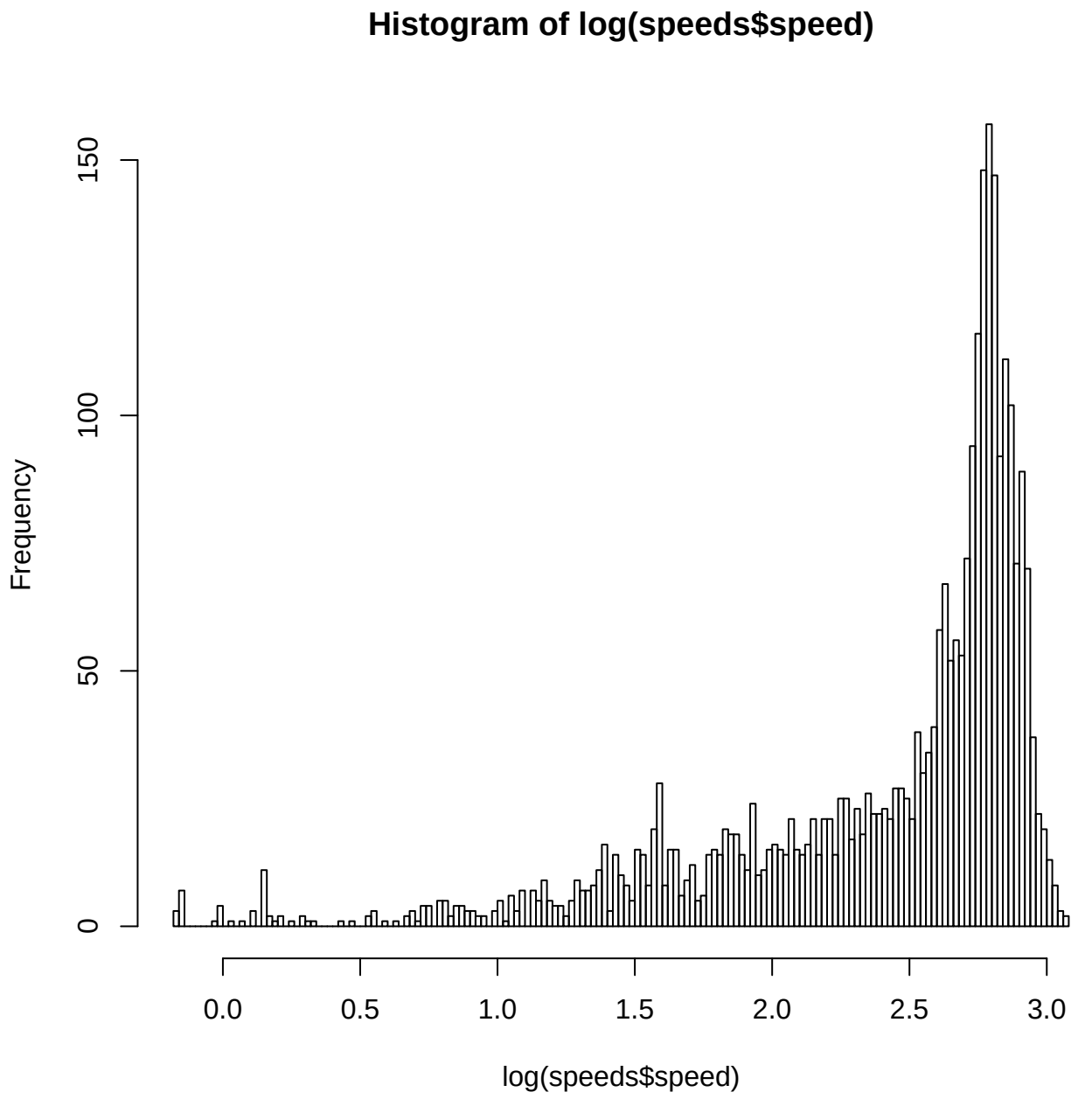

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

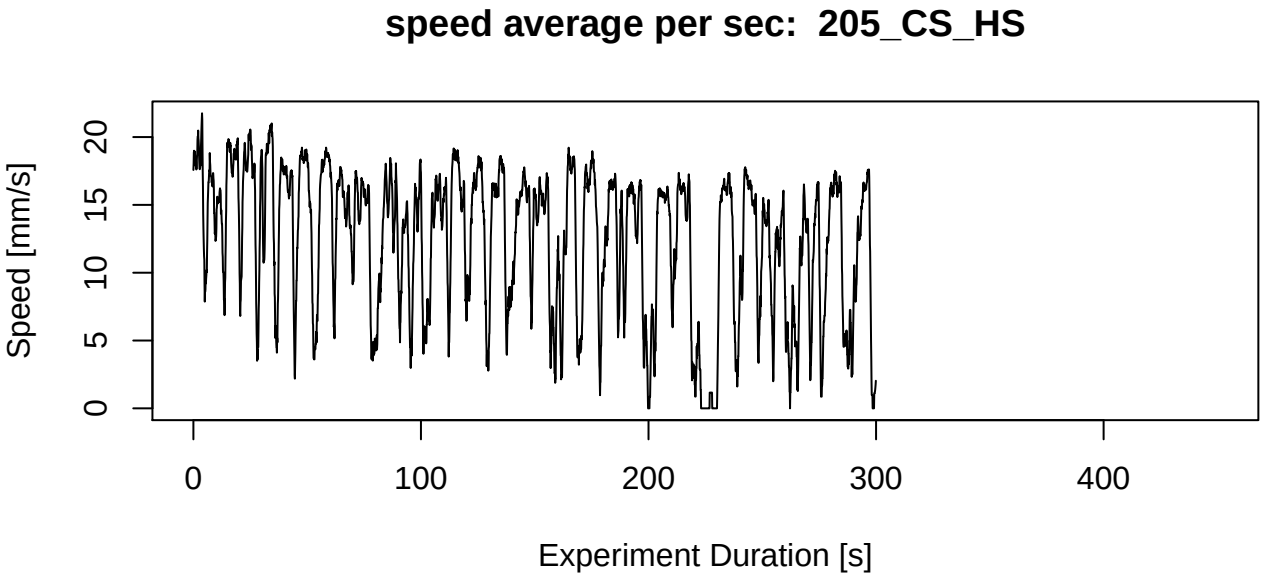

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

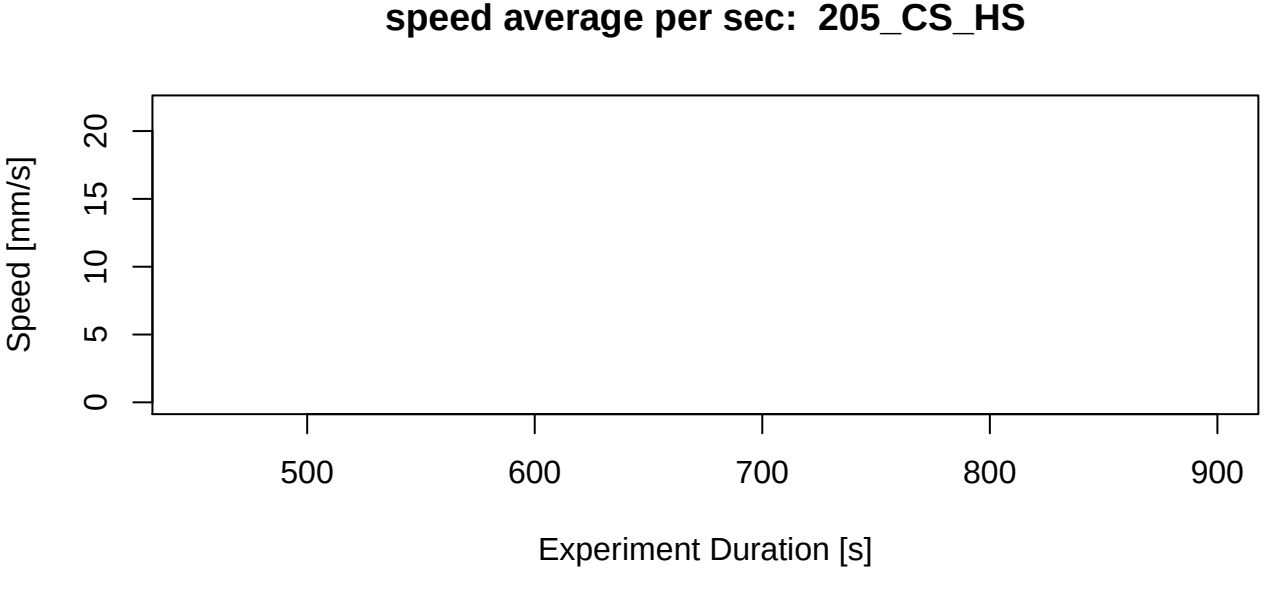

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

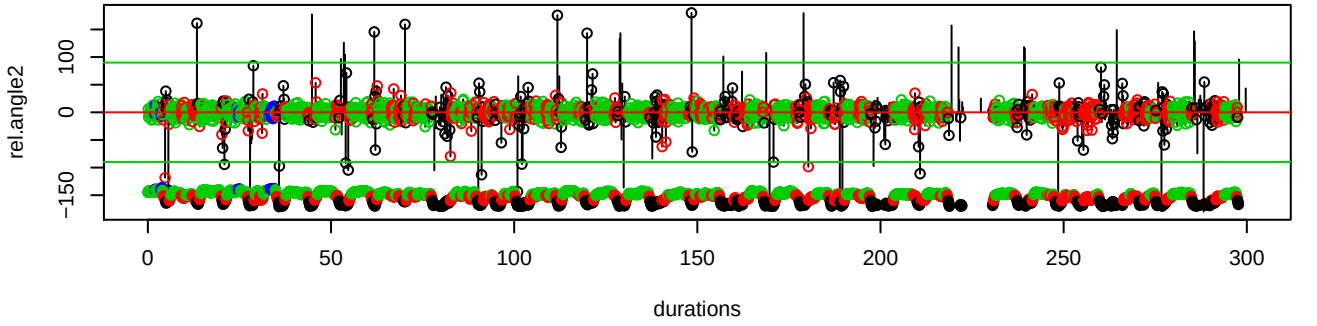

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

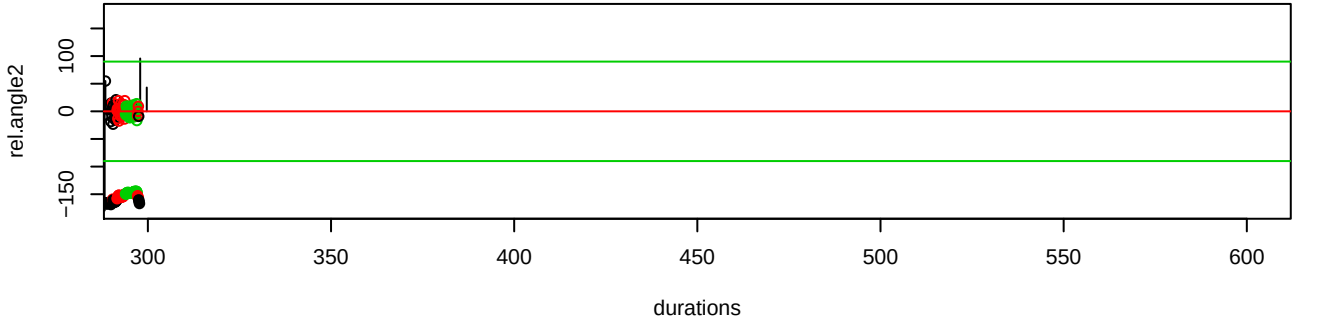

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

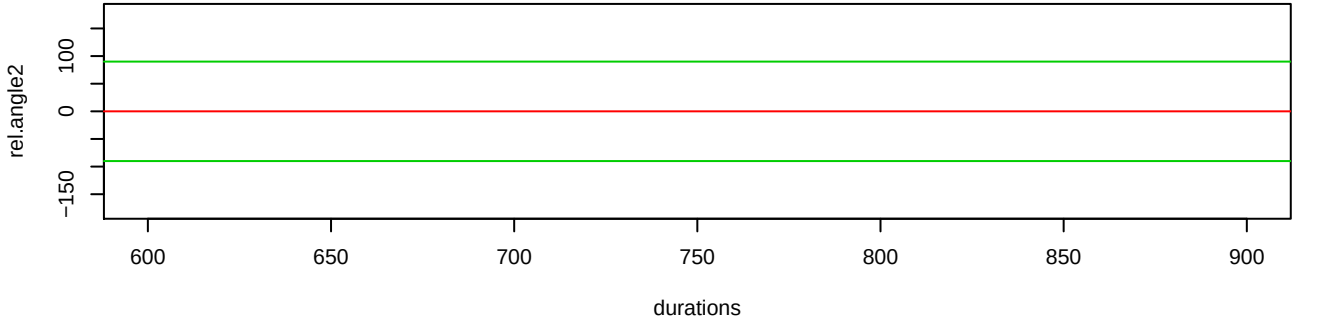

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

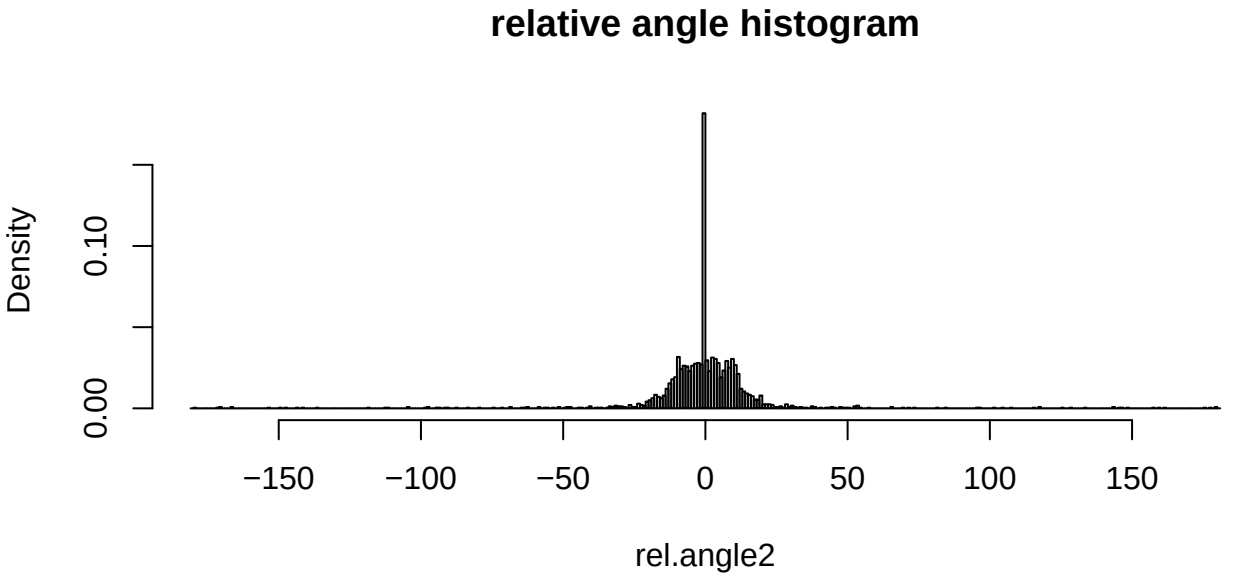

speed average per sec: 205_CS_HS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

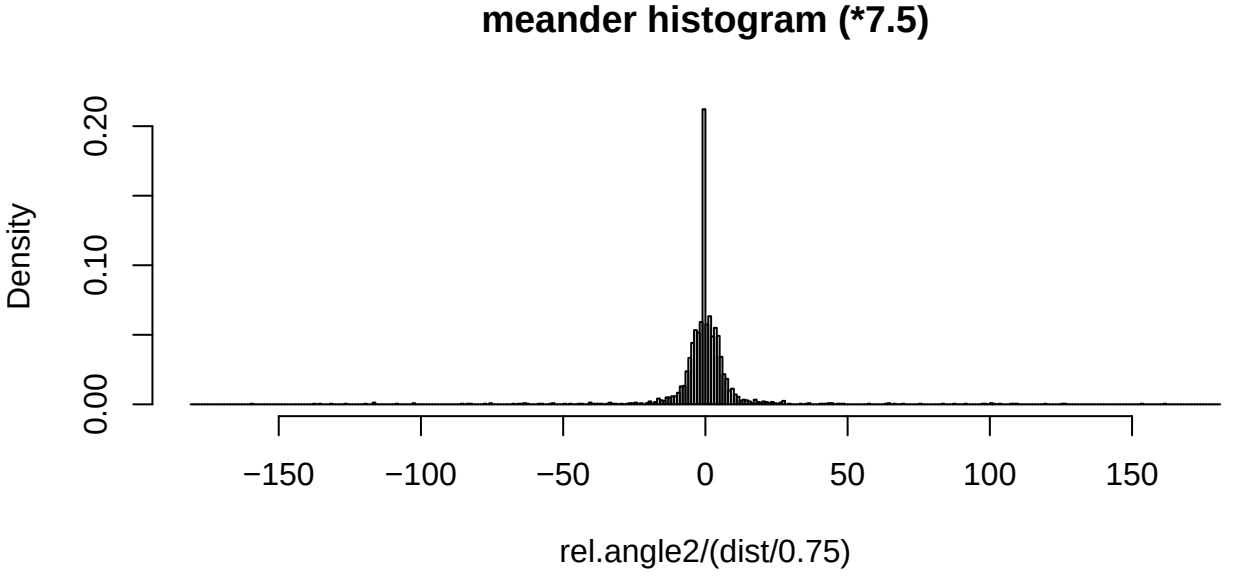

speed average per sec: 205_CS_HS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

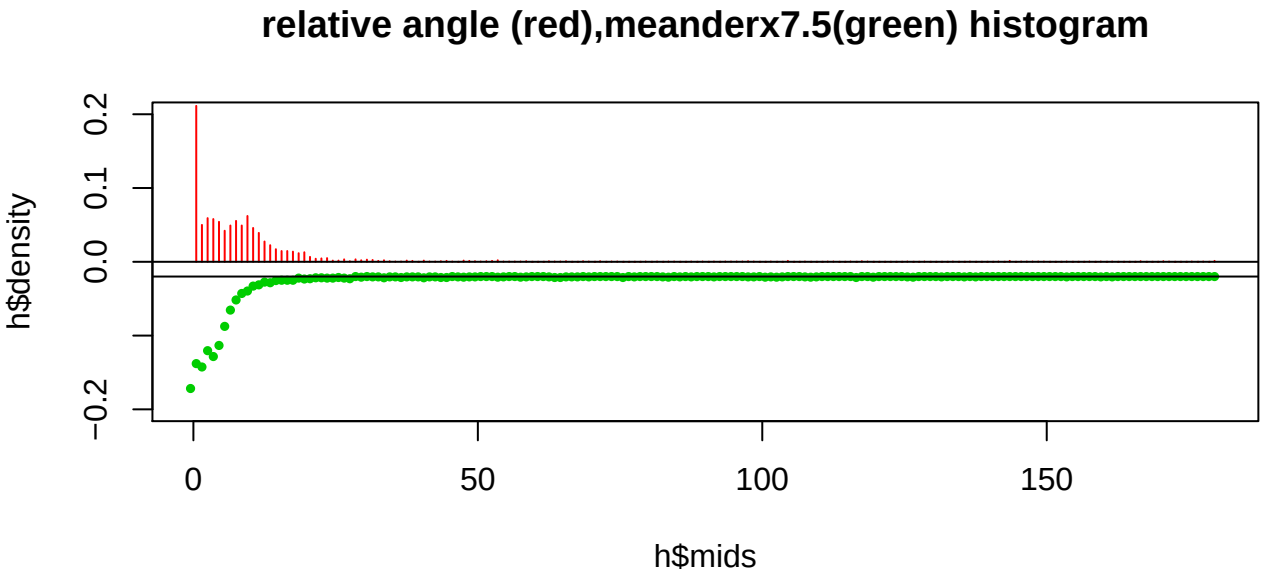

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

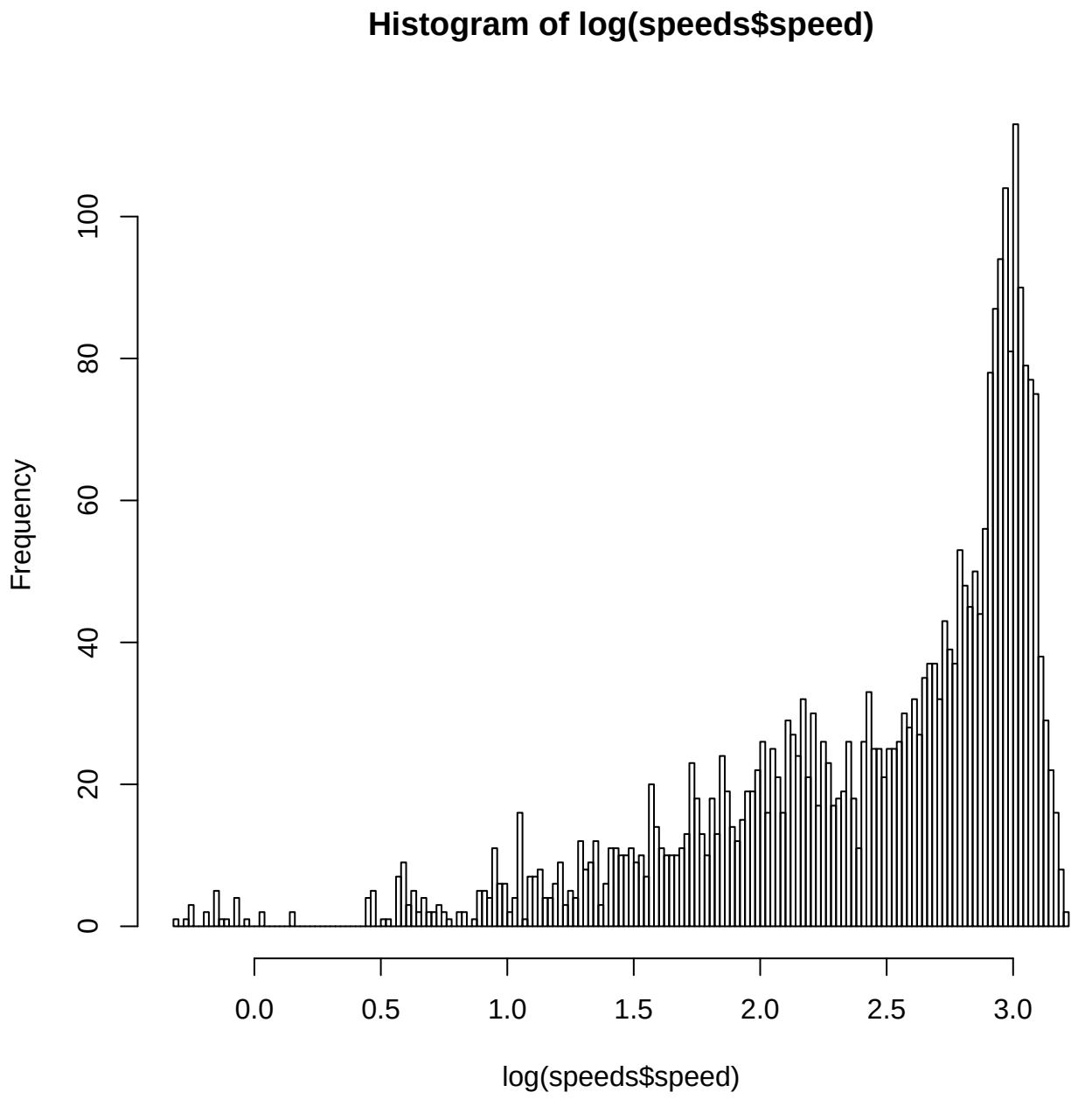

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

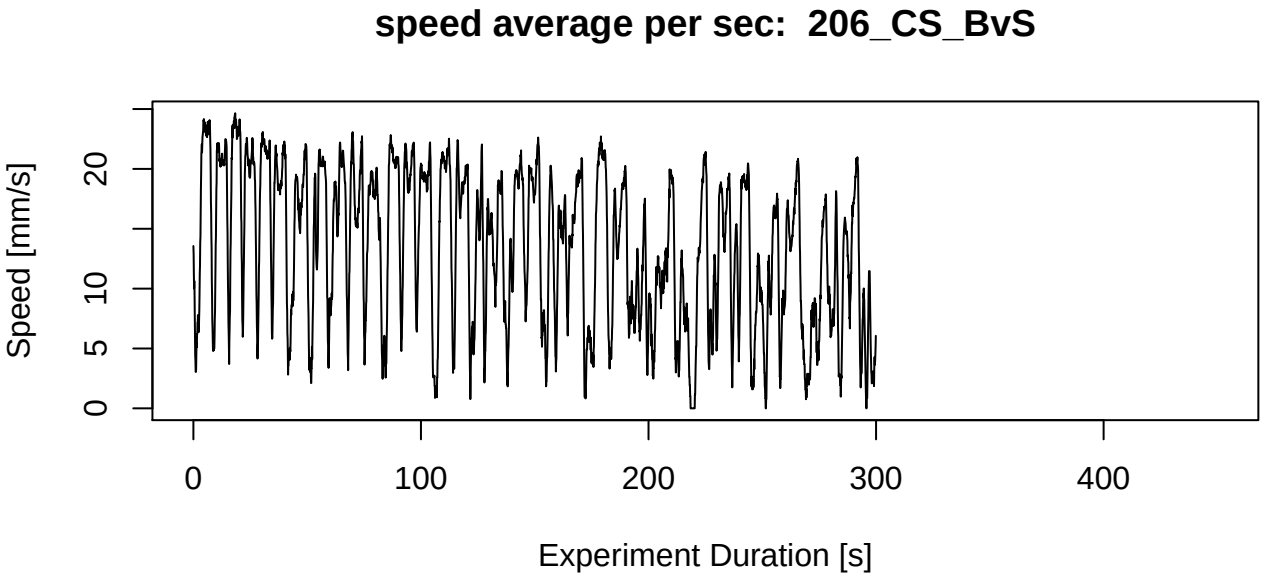

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

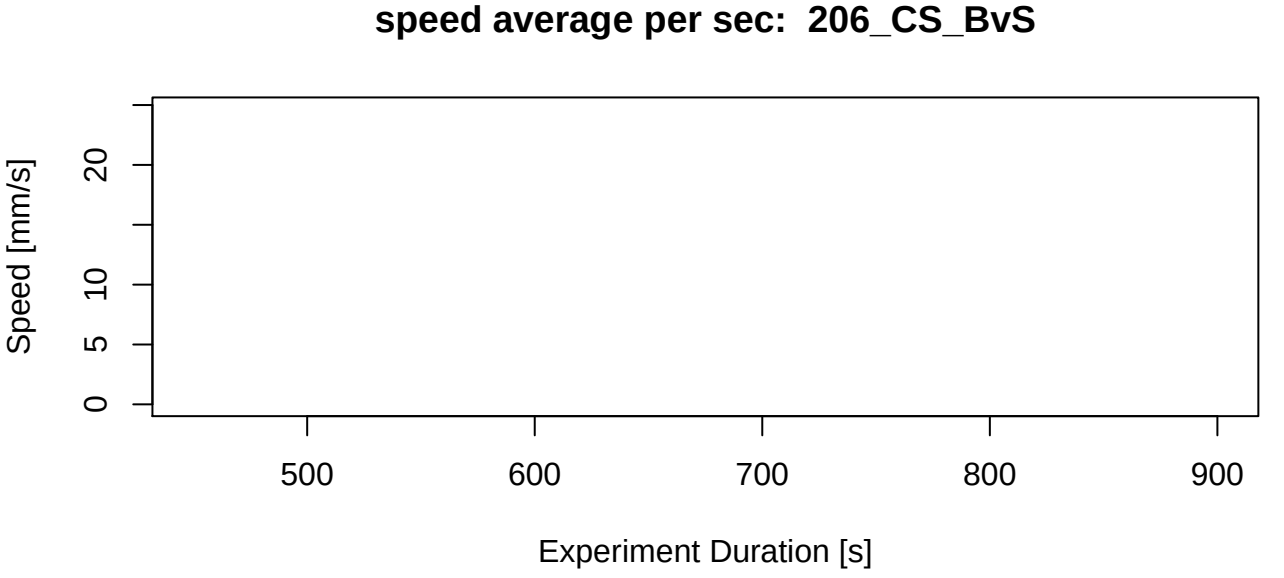

relative angle histogram
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2

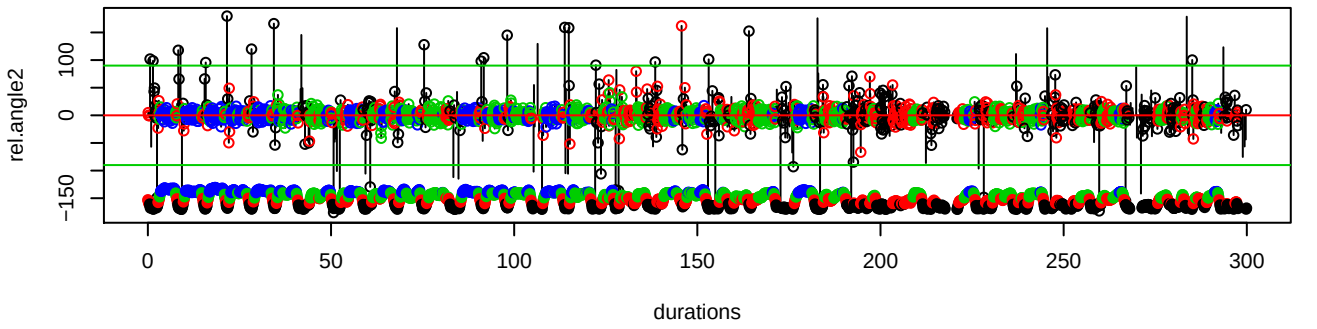

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

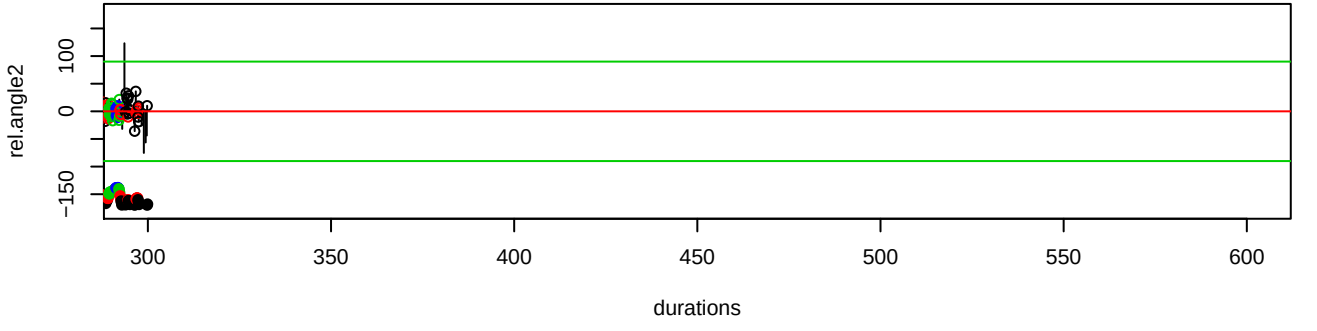

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

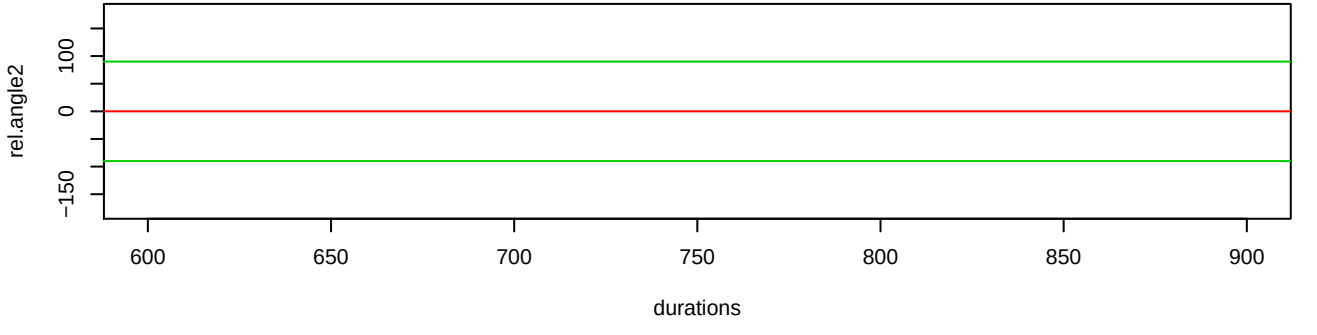

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

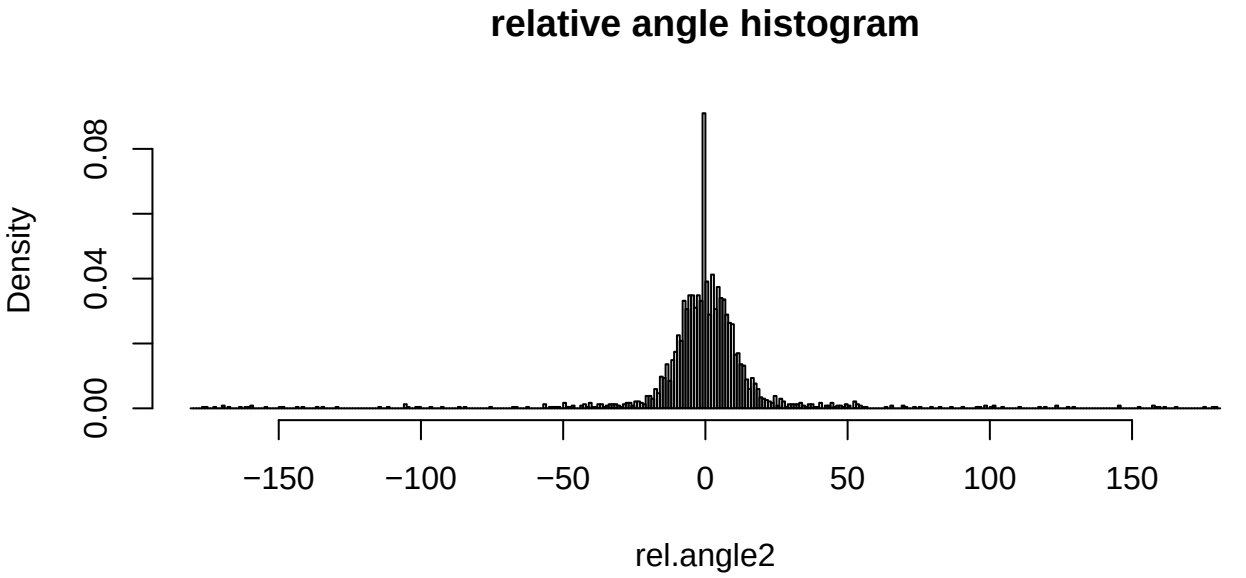

speed average per sec: 206_CS_BvS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

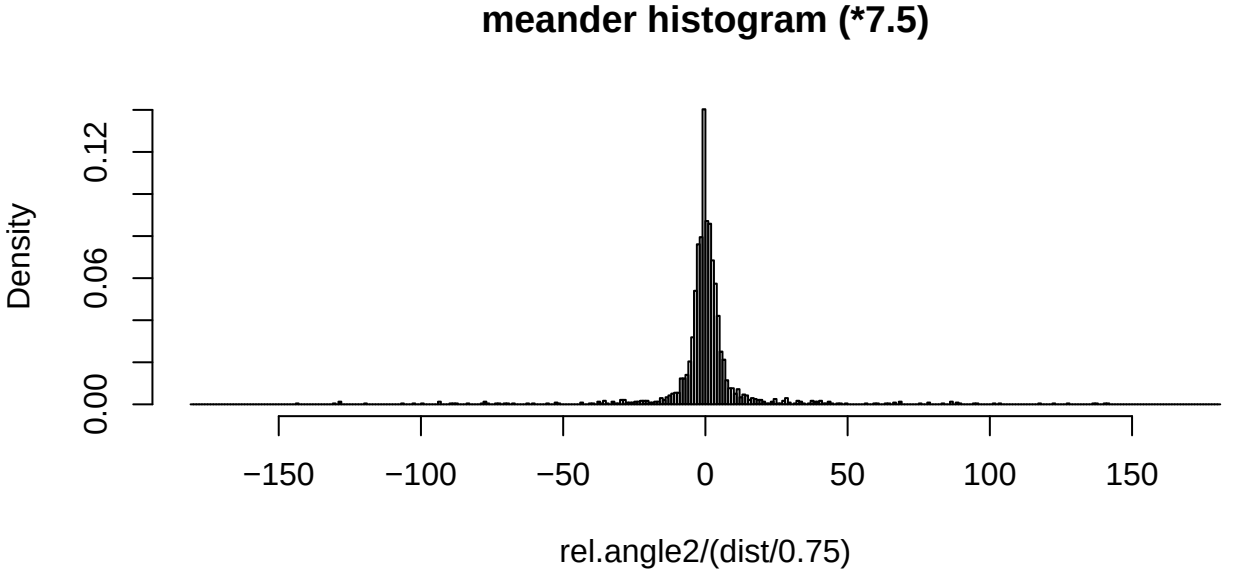

speed average per sec: 206_CS_BvS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

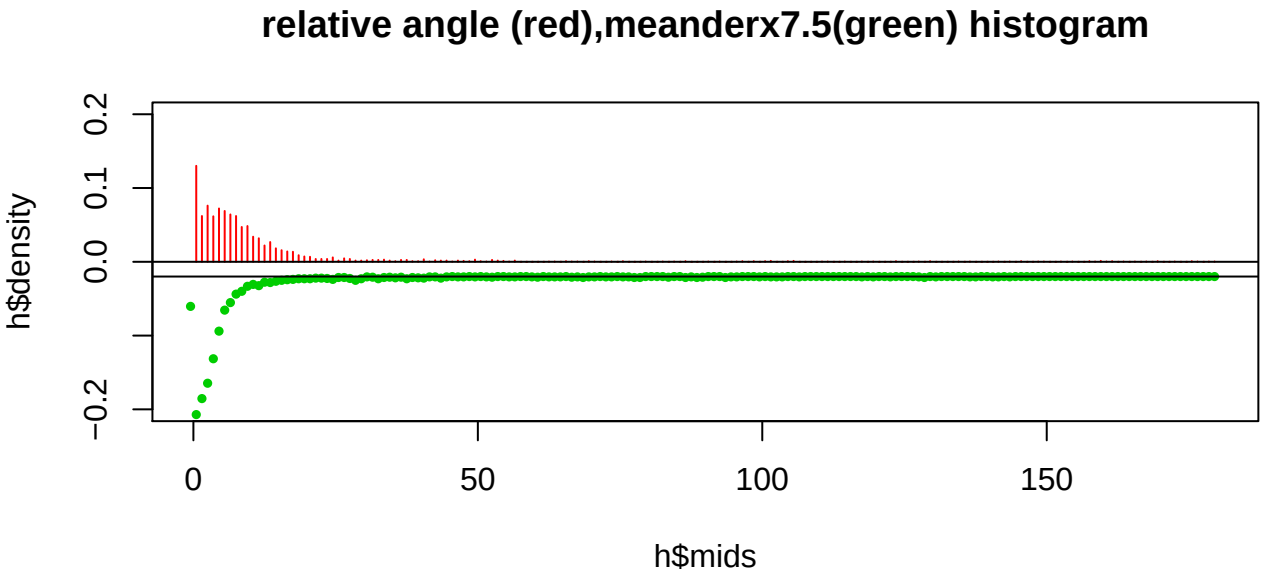

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

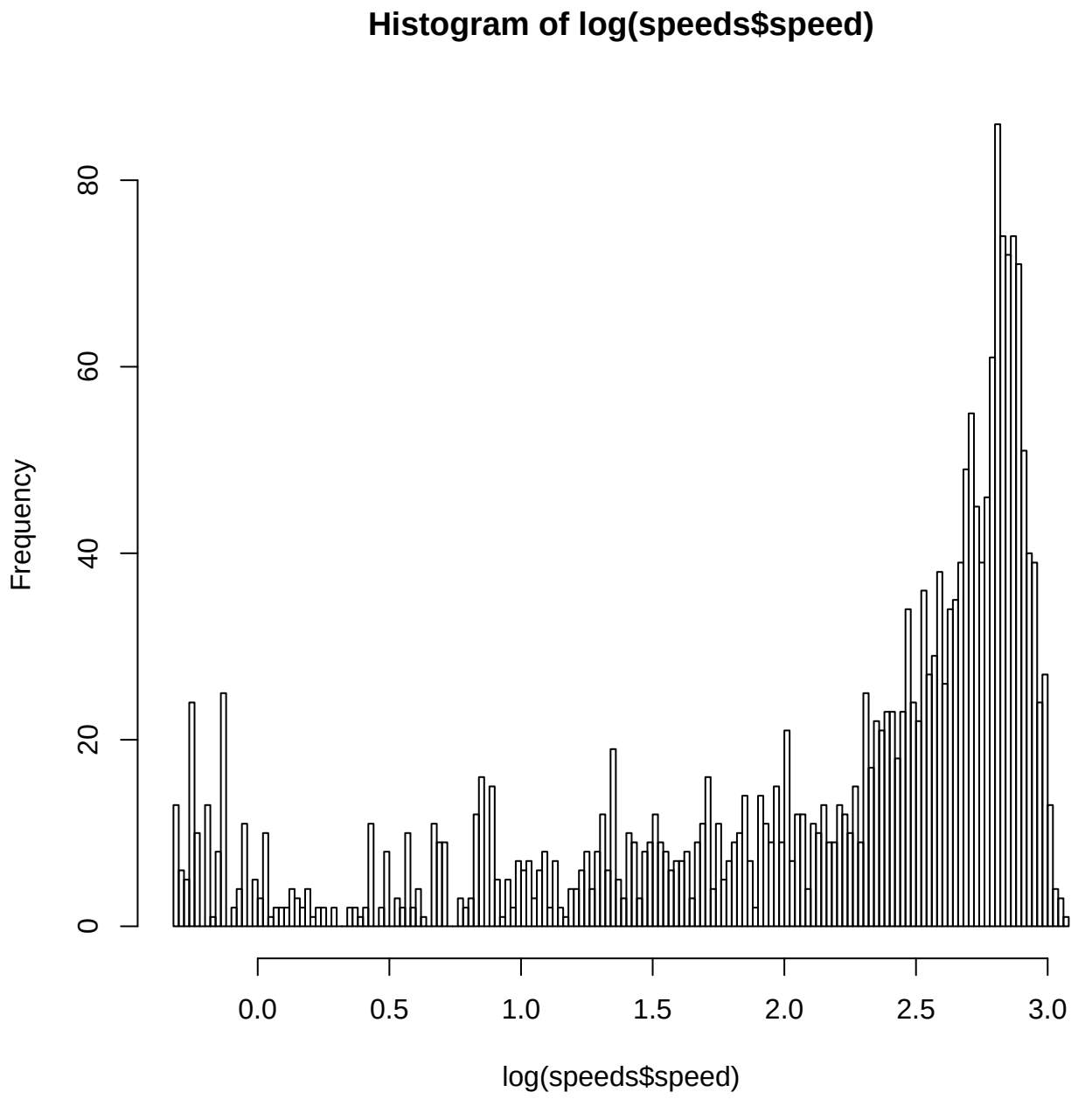

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

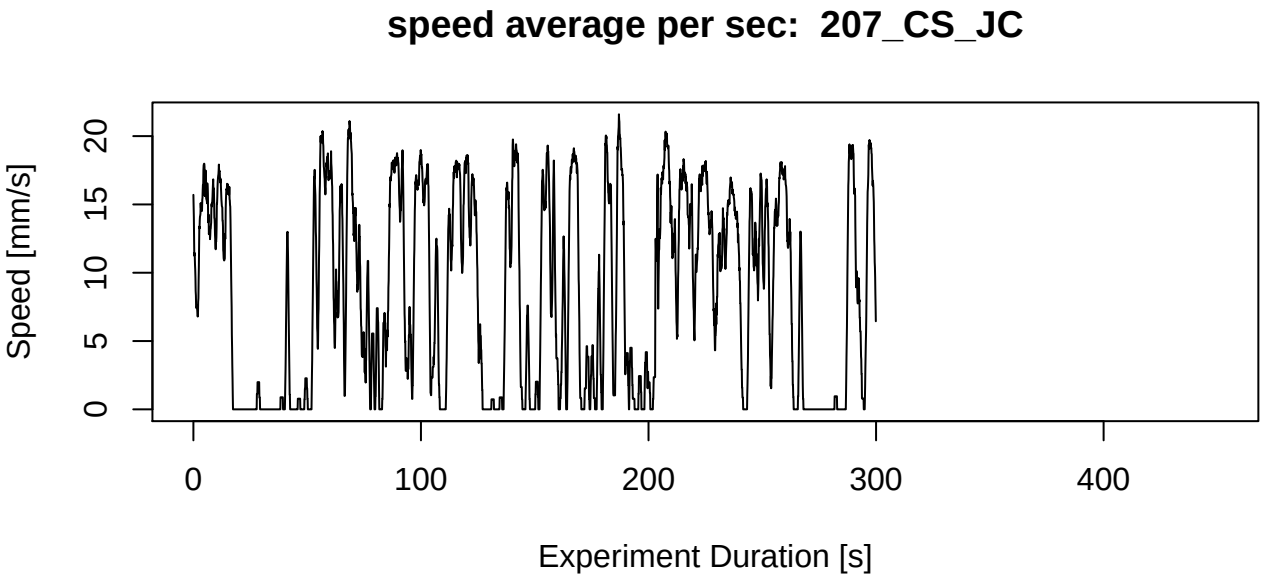

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

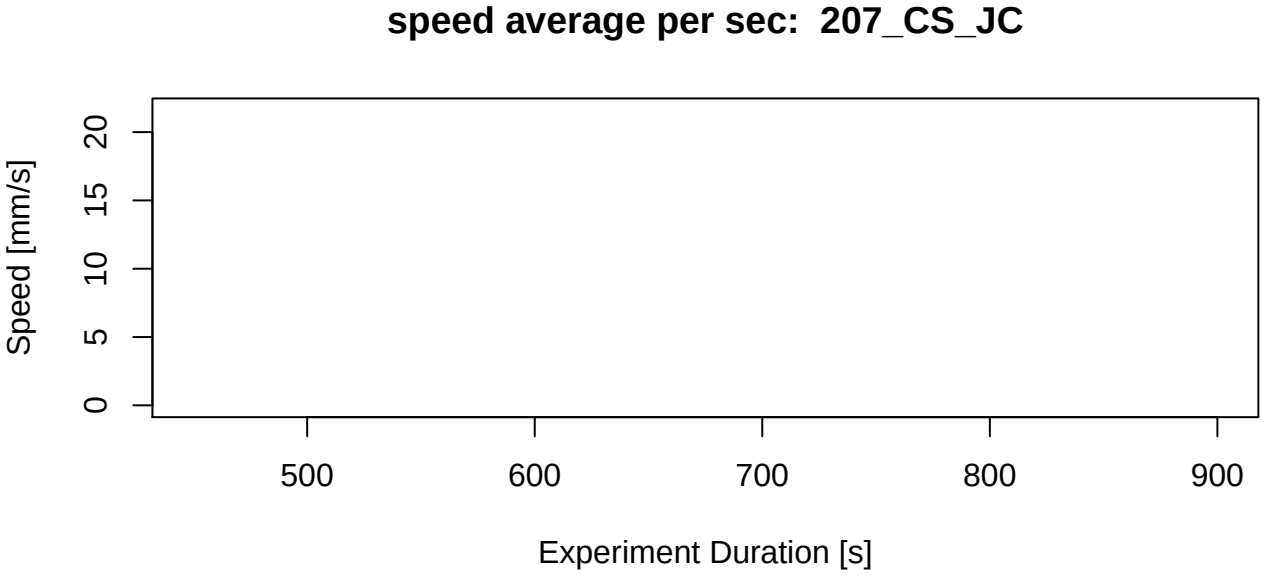

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

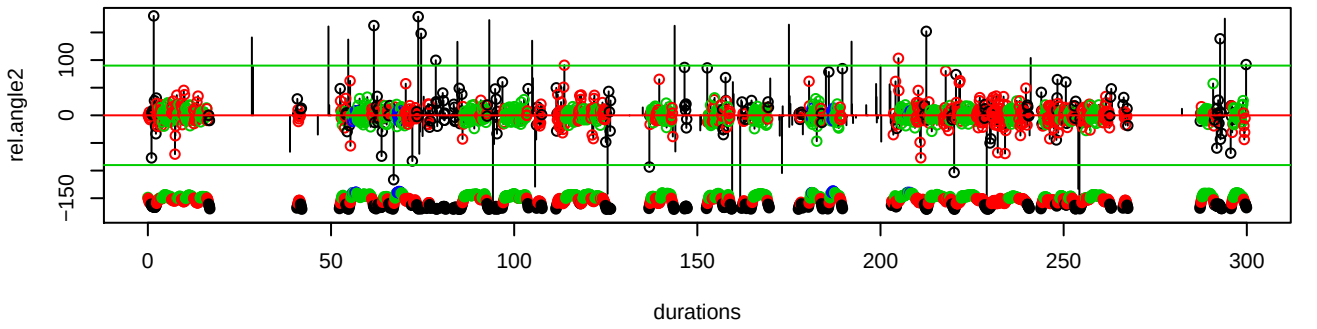

meander histogram (*7.5)
Density
0.00
0.06
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

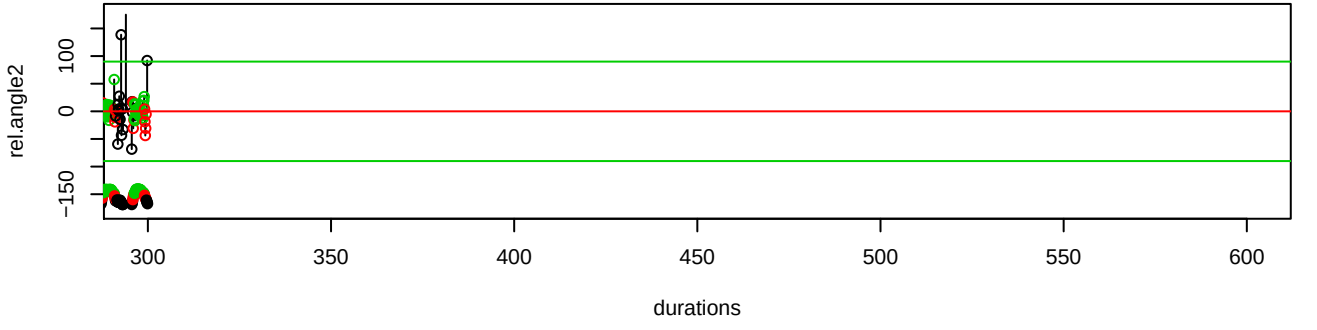

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

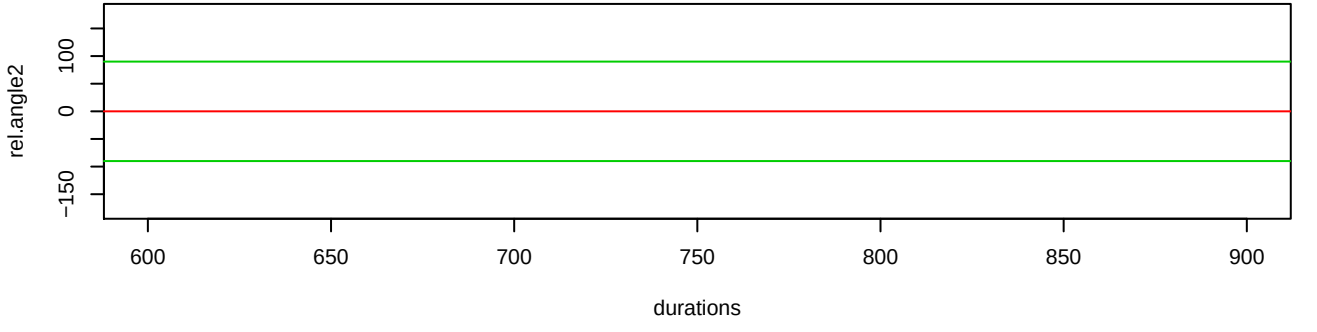

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

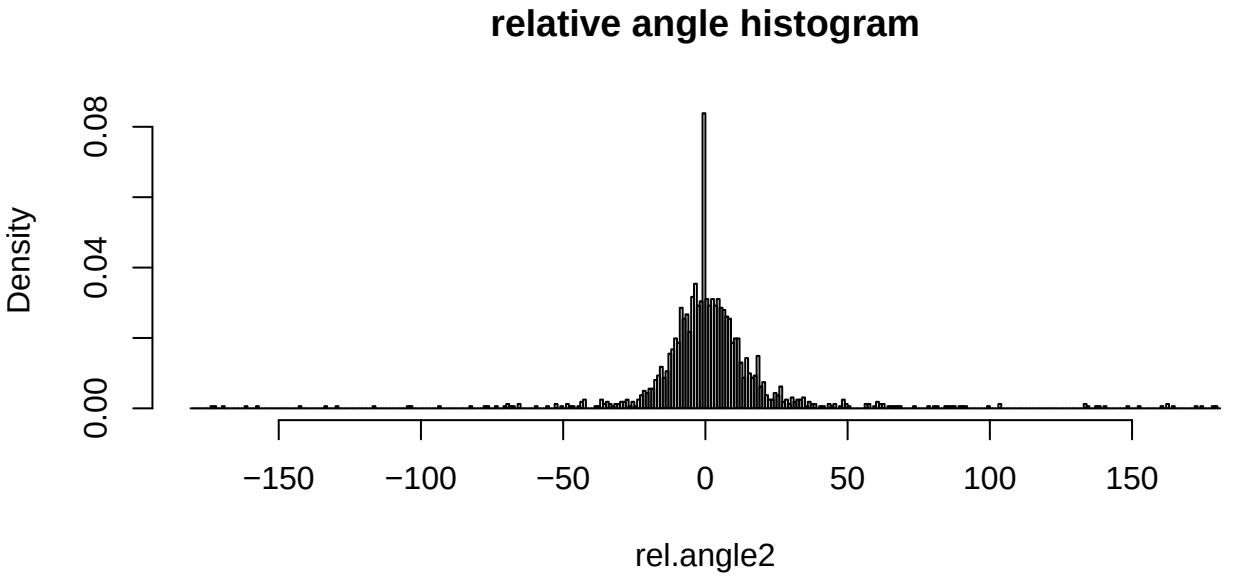

speed average per sec: 207_CS_JC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

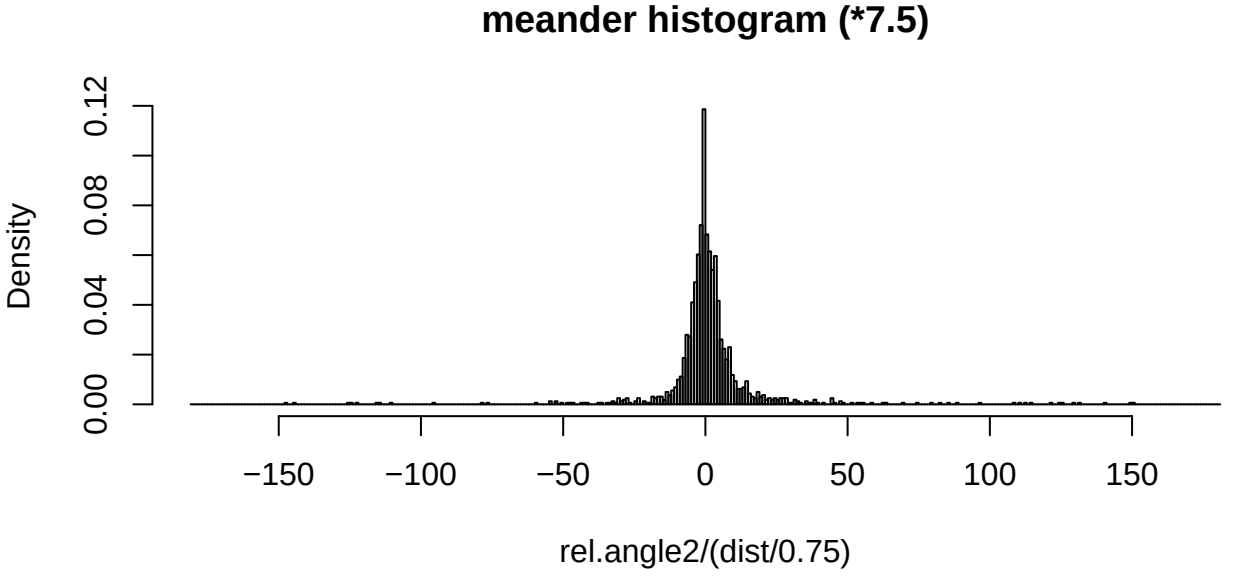

speed average per sec: 207_CS_JC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

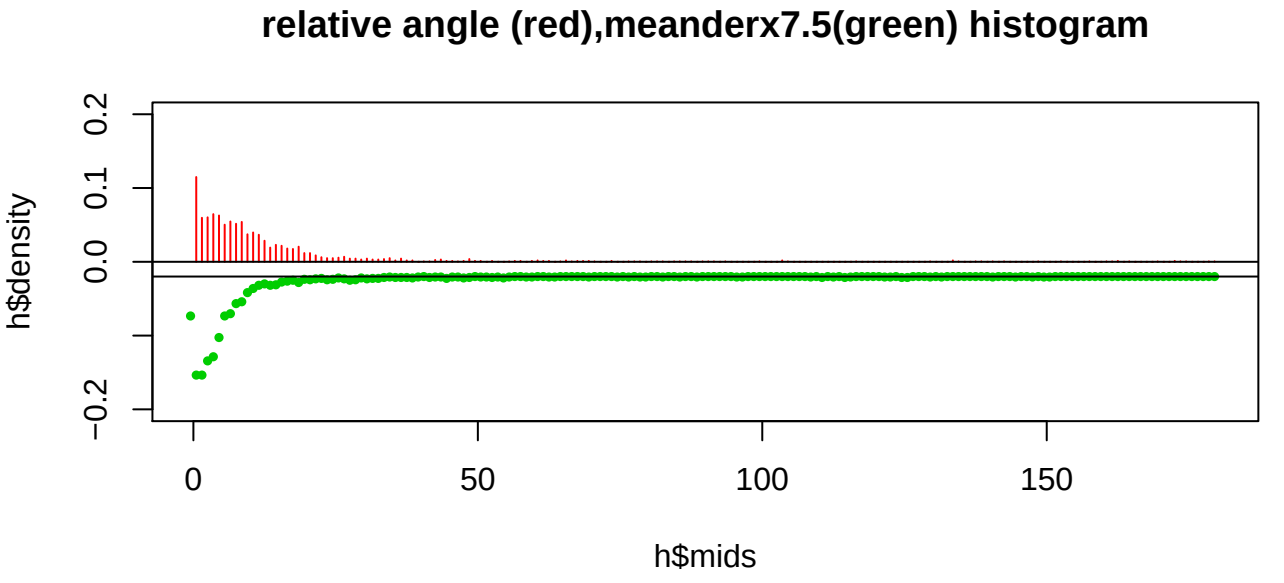

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

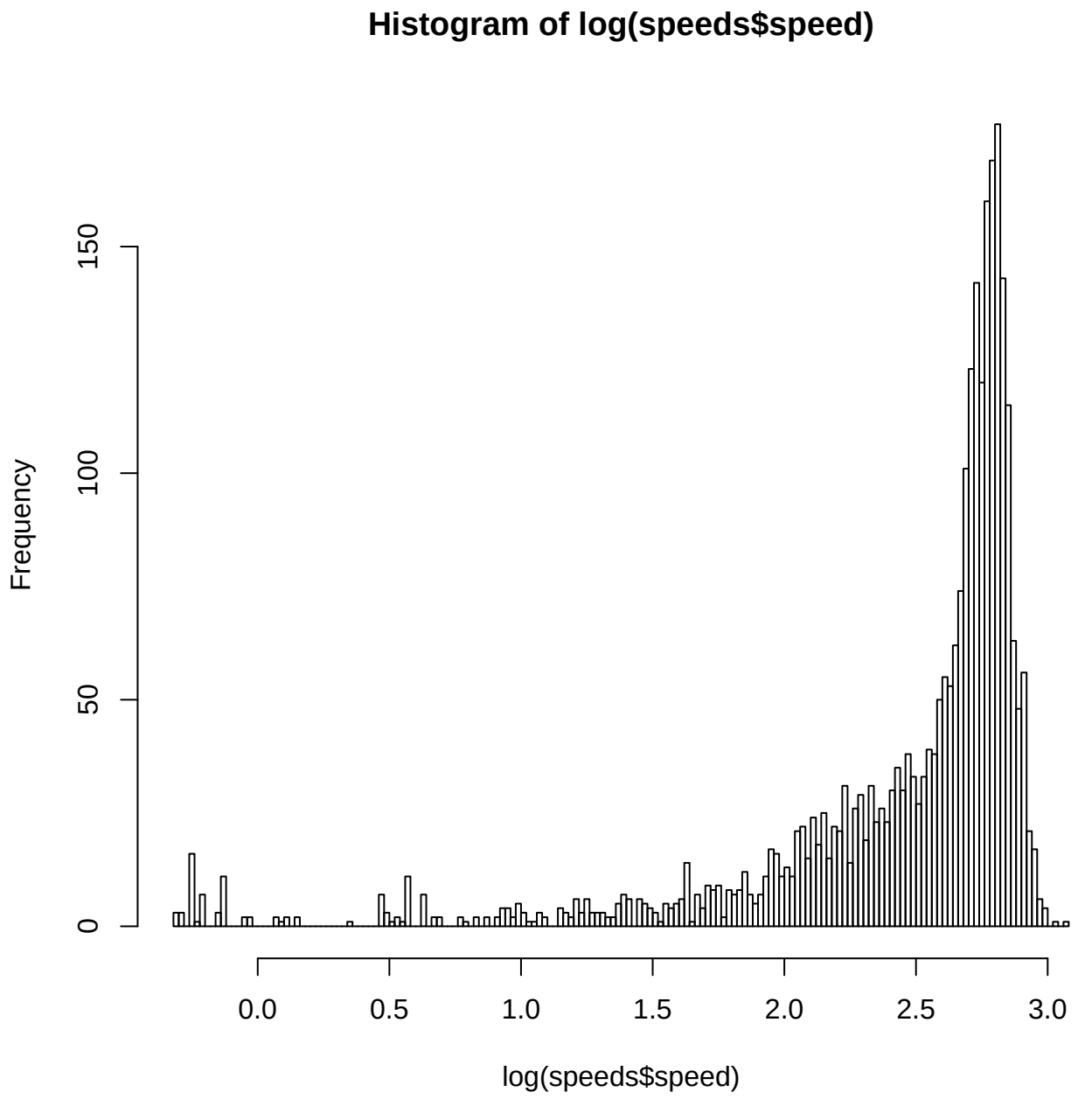

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

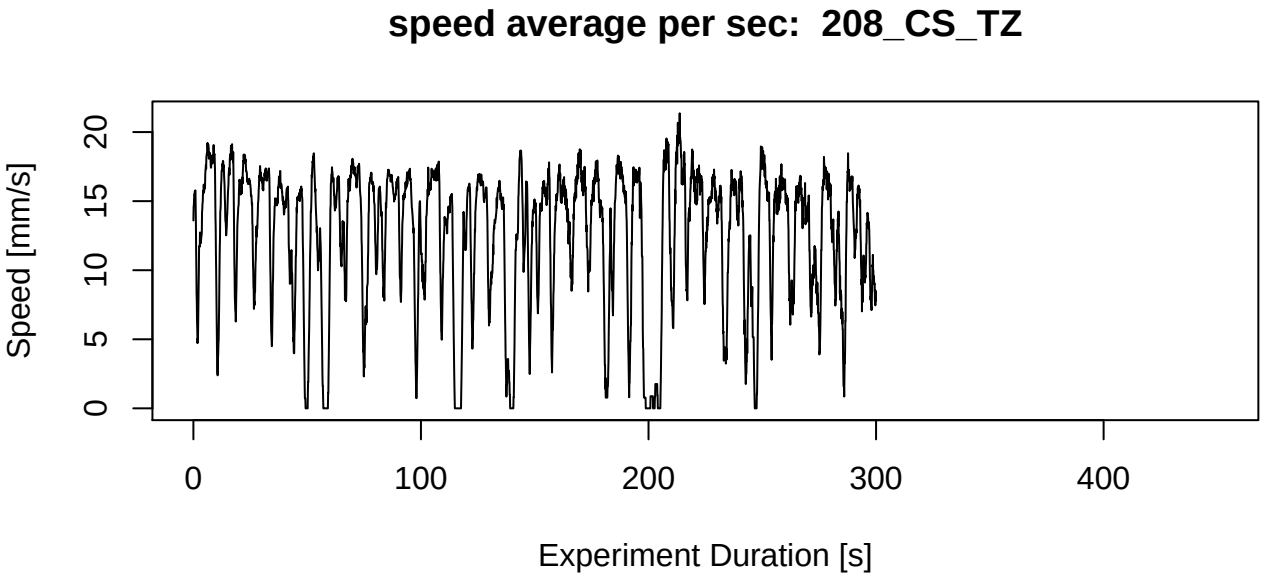

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

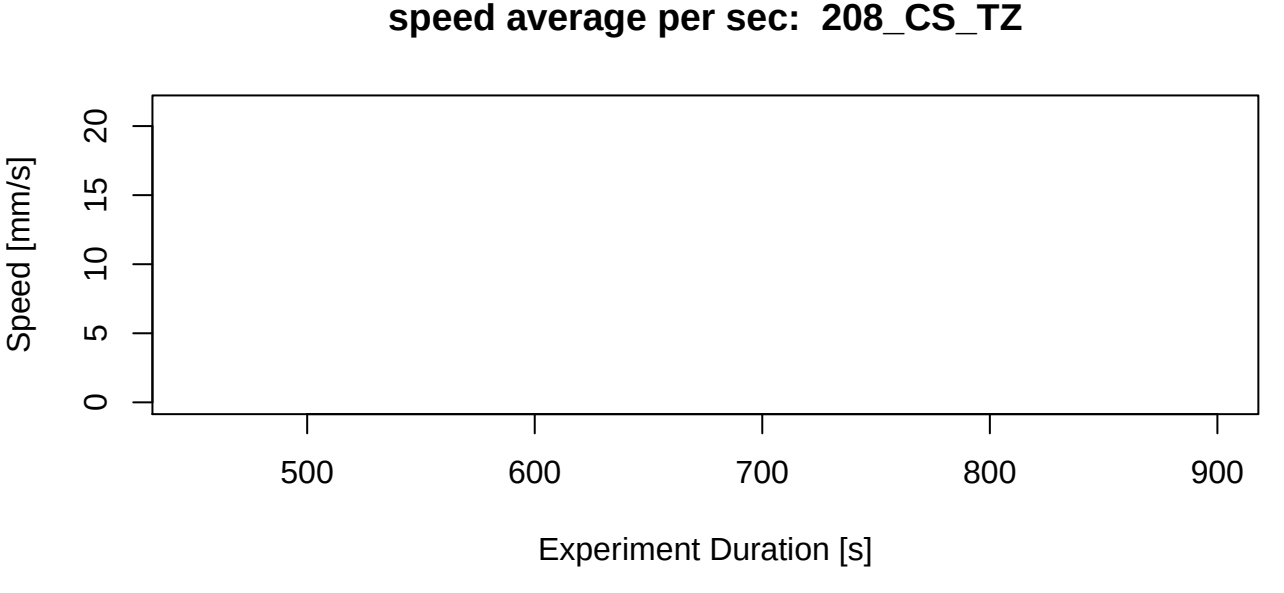

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

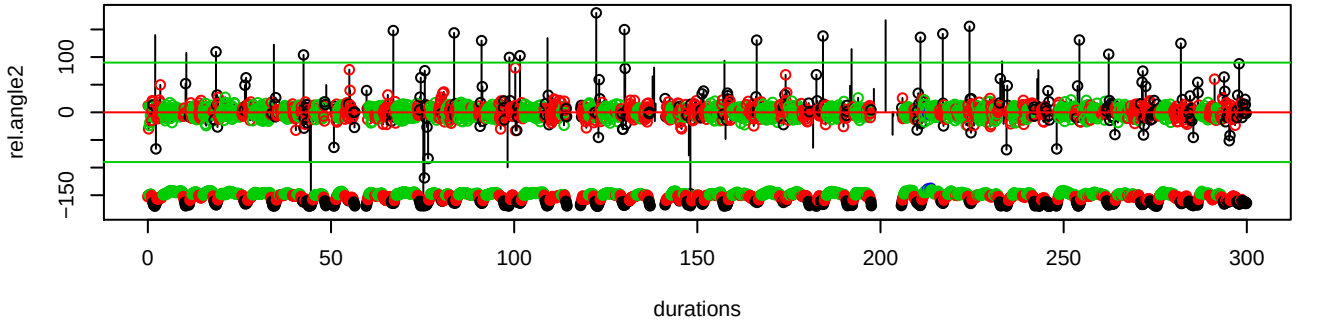

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

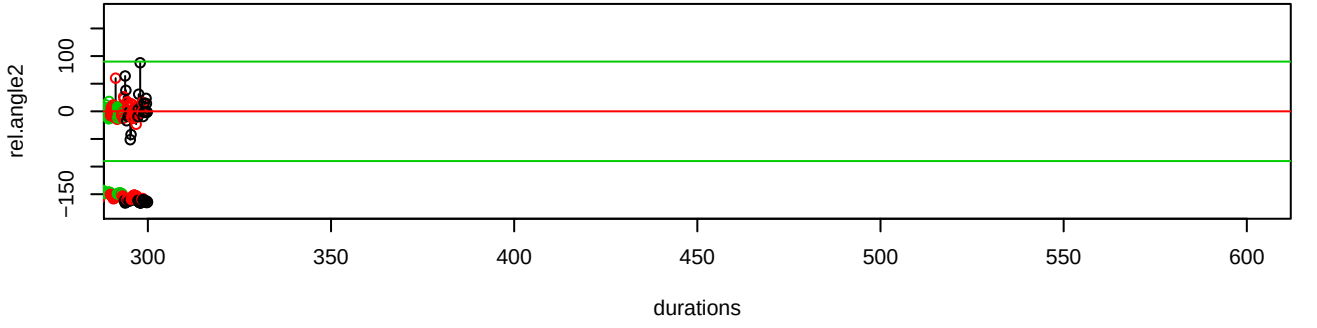

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

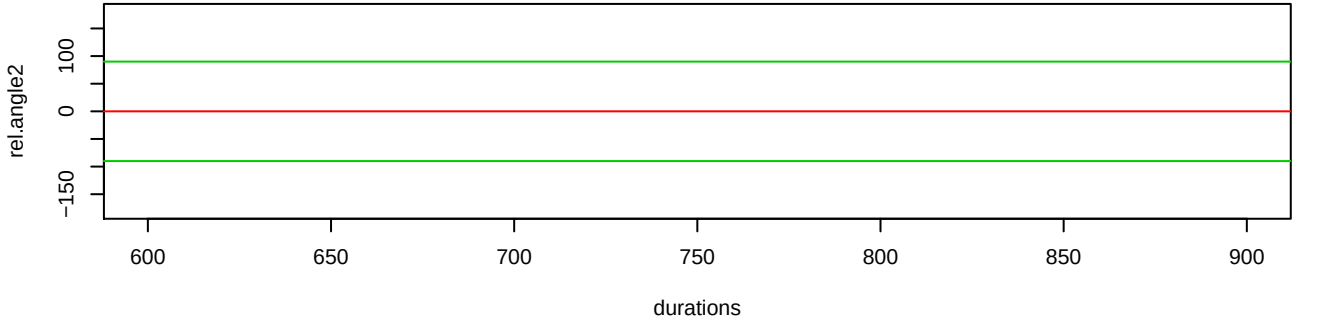

Histogram of log(speeds$speed)
Frequency
0
50
100
150
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

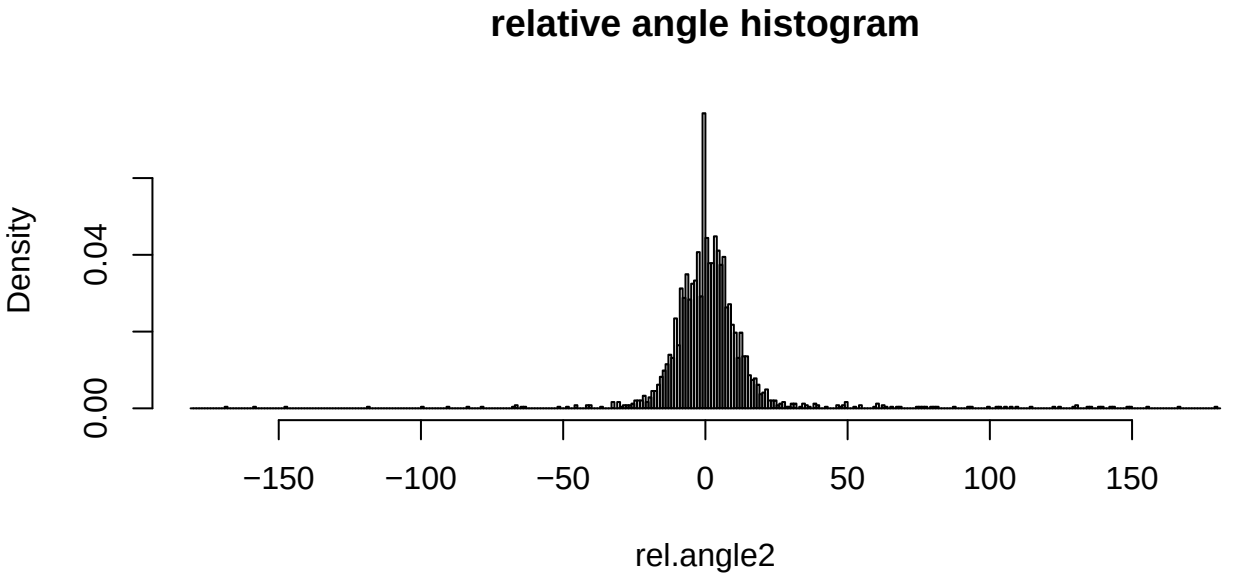

speed average per sec: 208_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

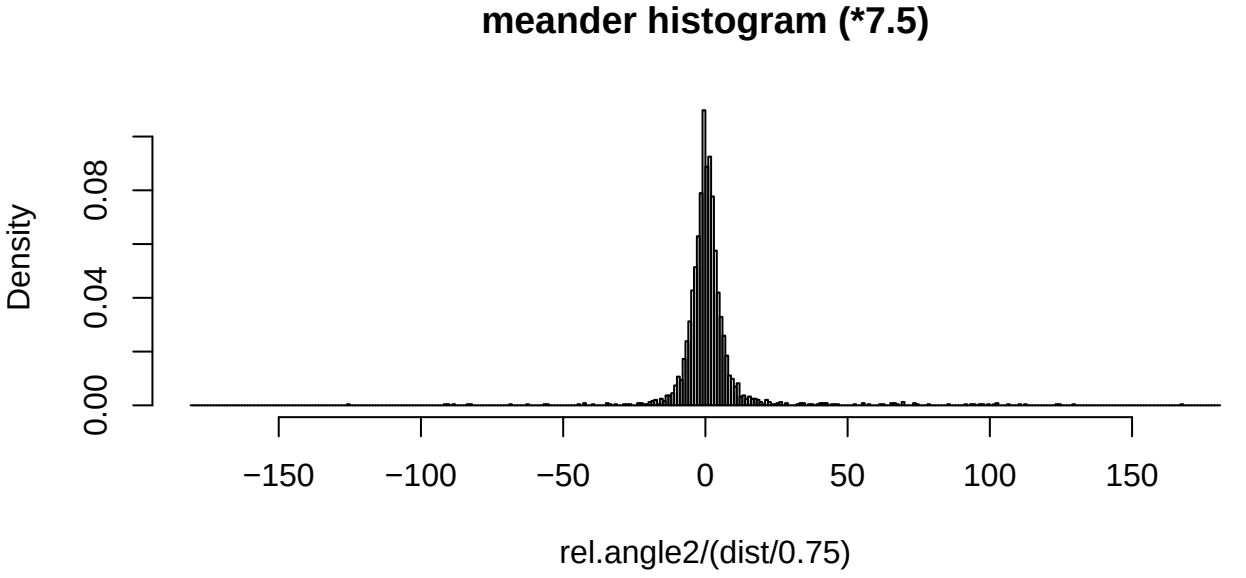

speed average per sec: 208_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

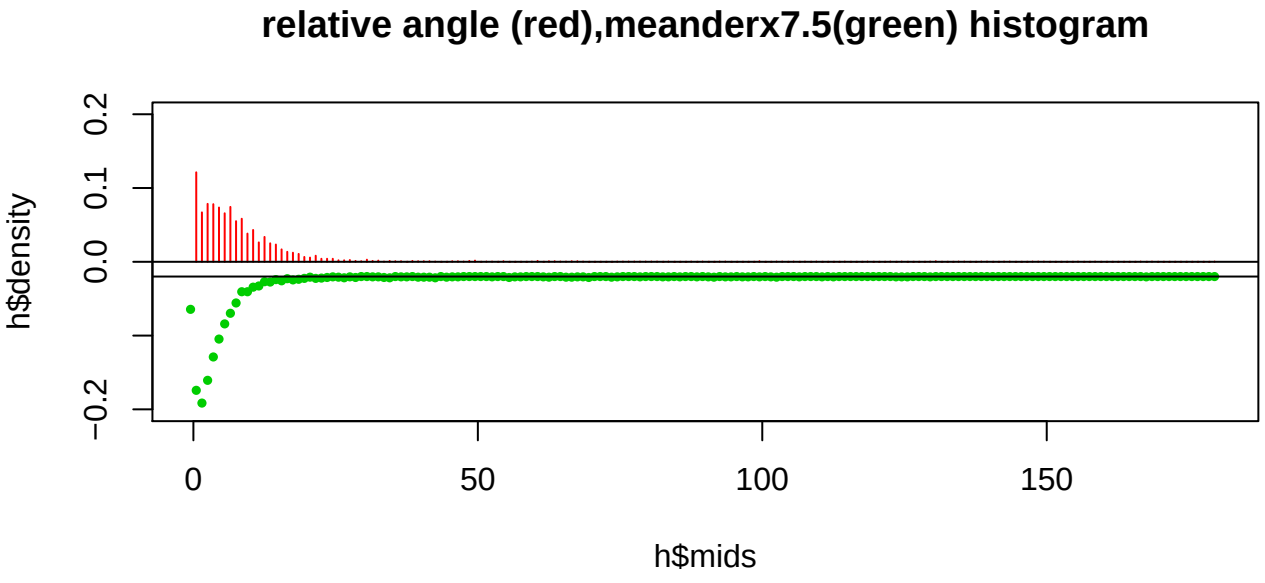

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

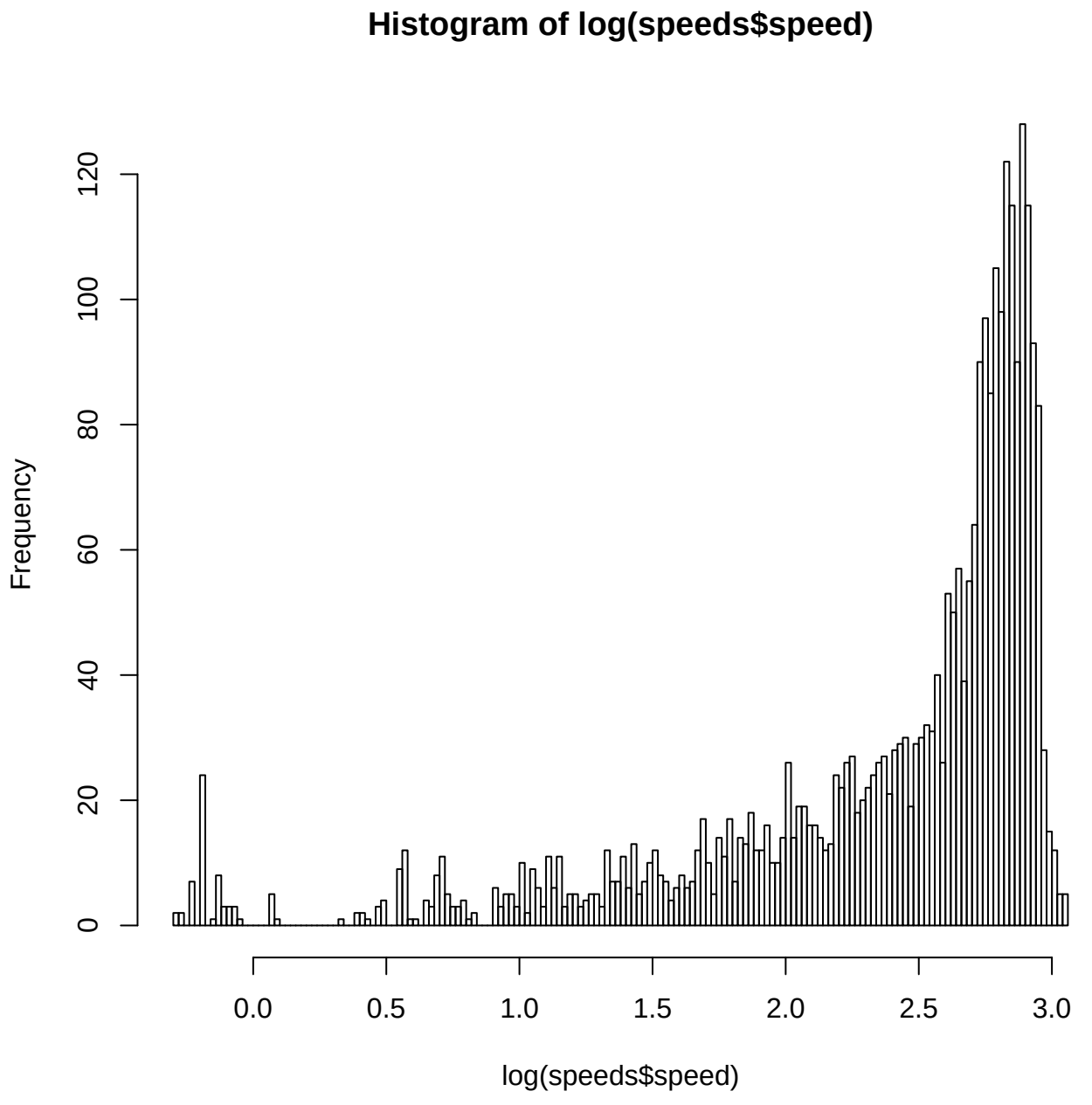

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

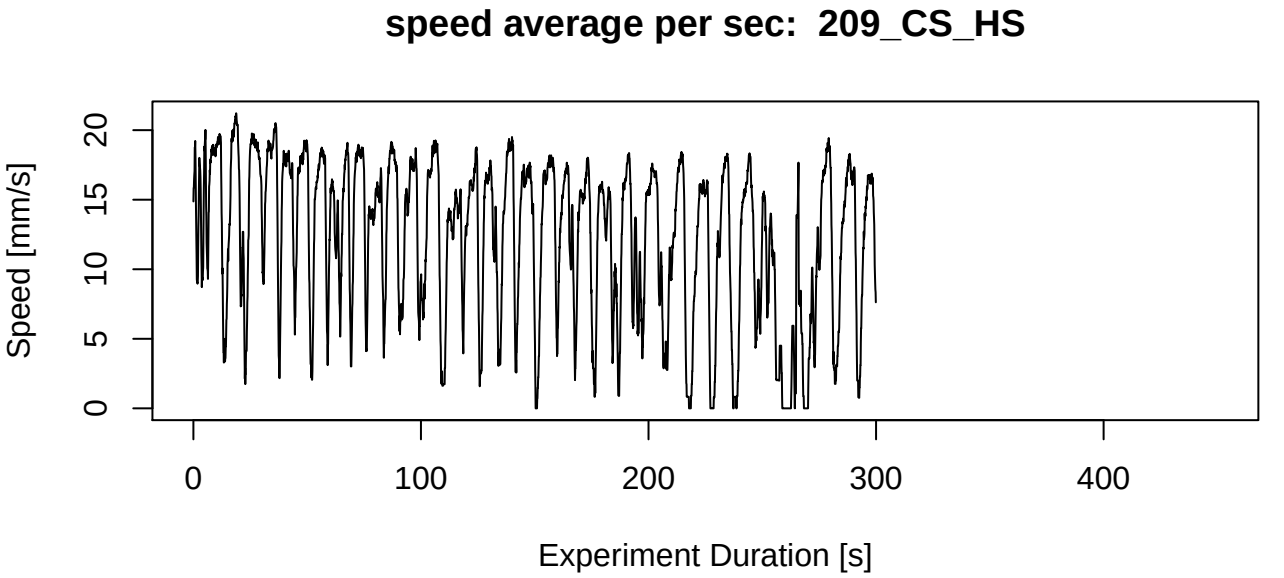

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

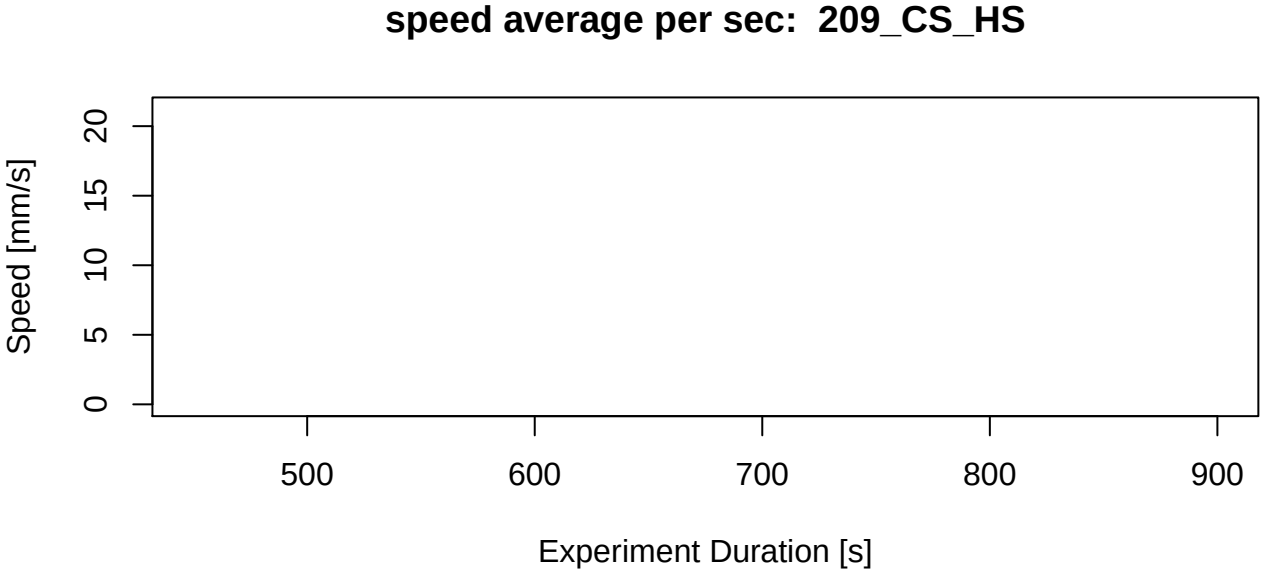

relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2

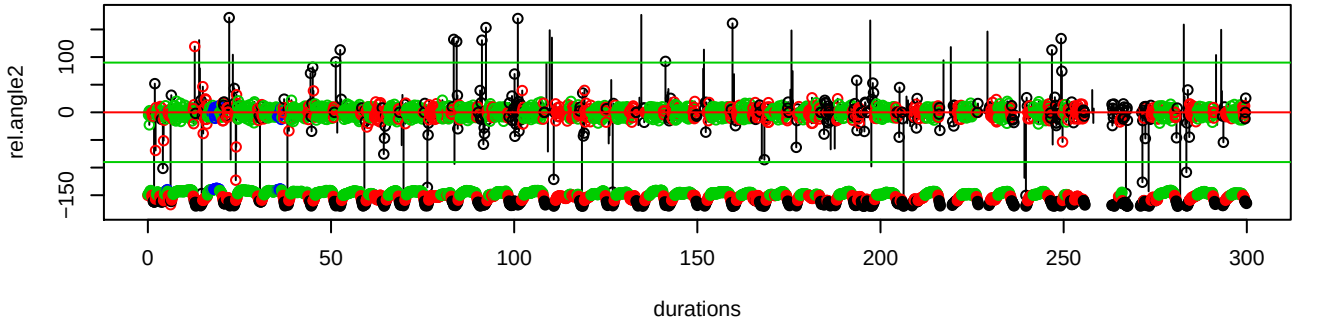

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

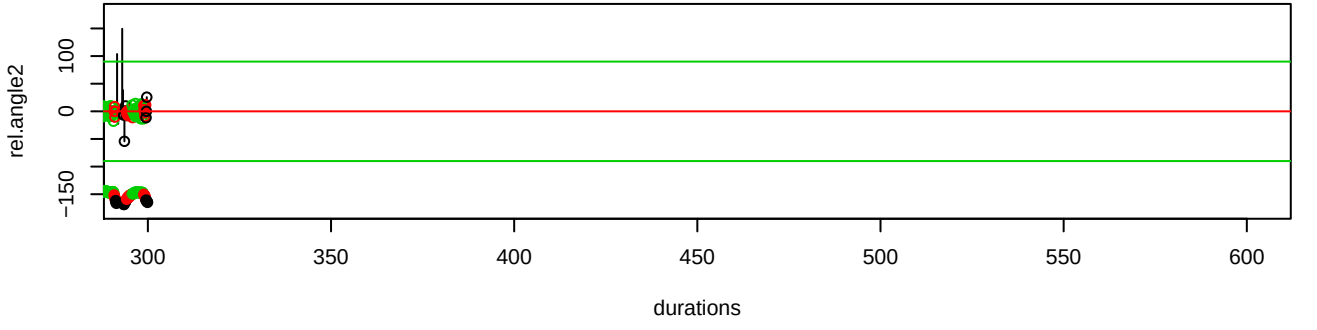

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

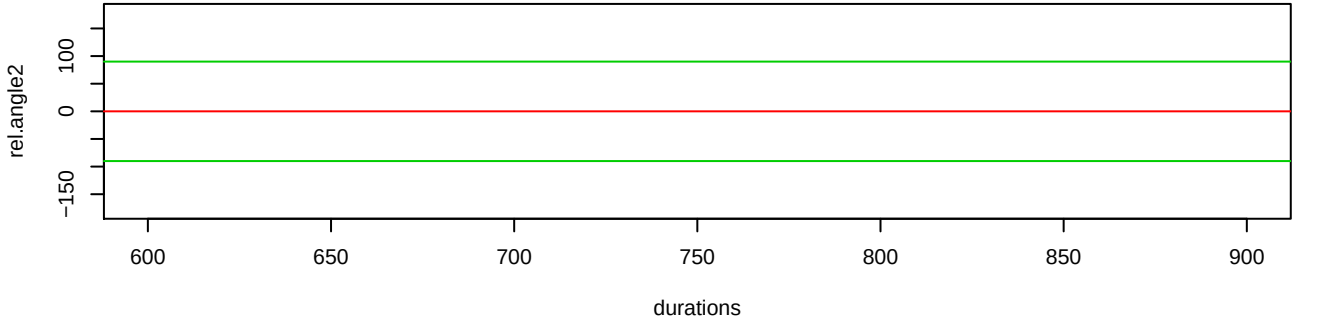

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

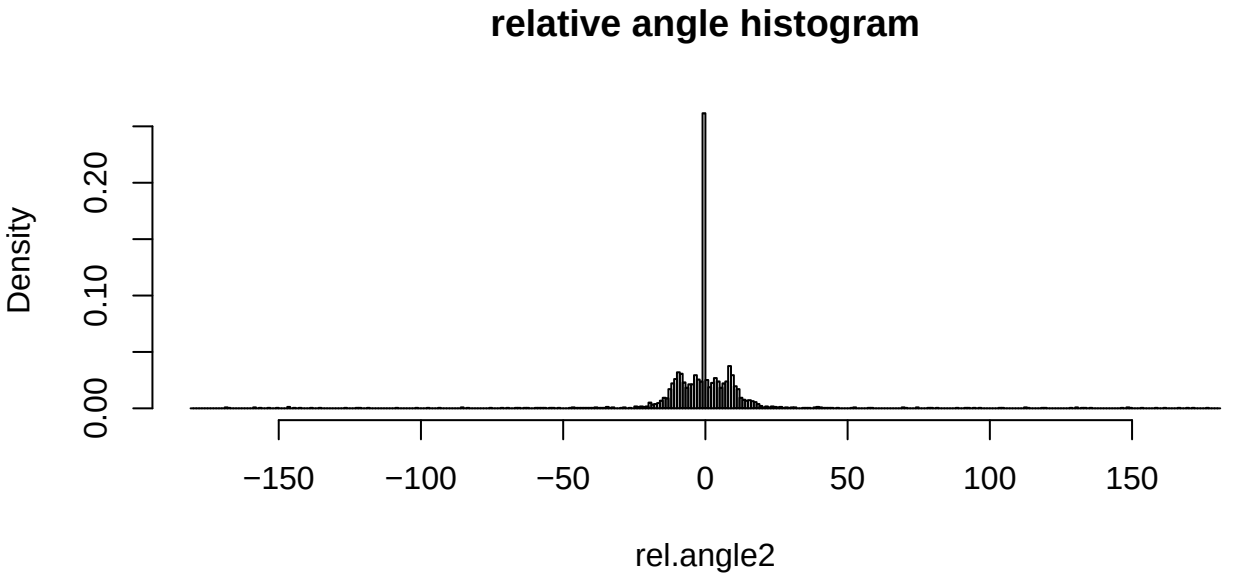

speed average per sec: 209_CS_HS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

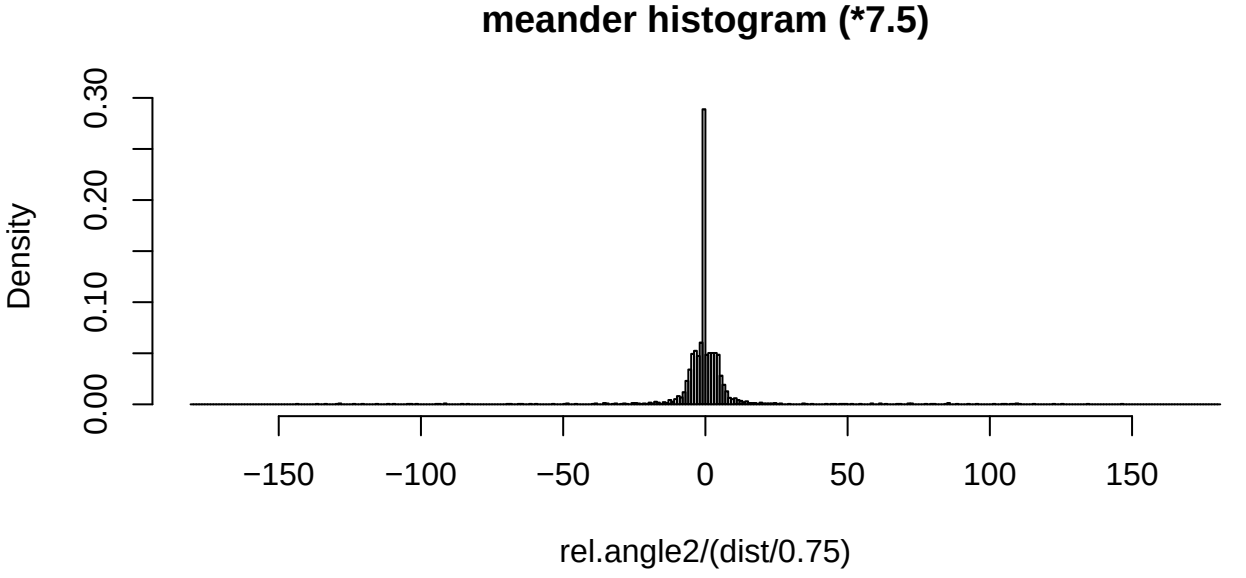

speed average per sec: 209_CS_HS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

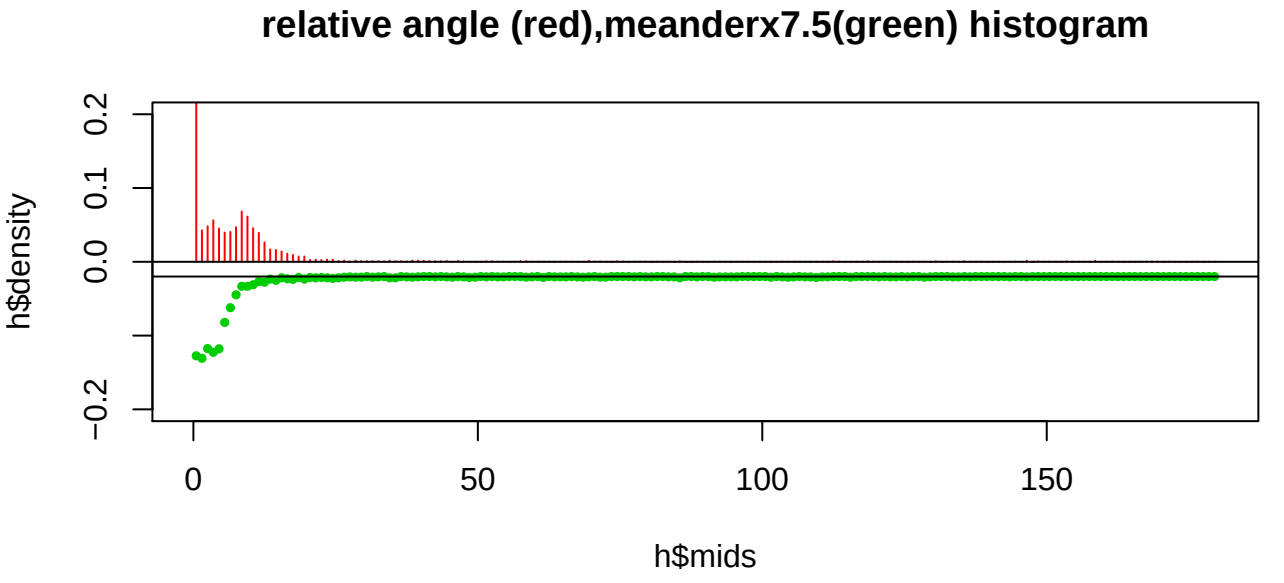

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

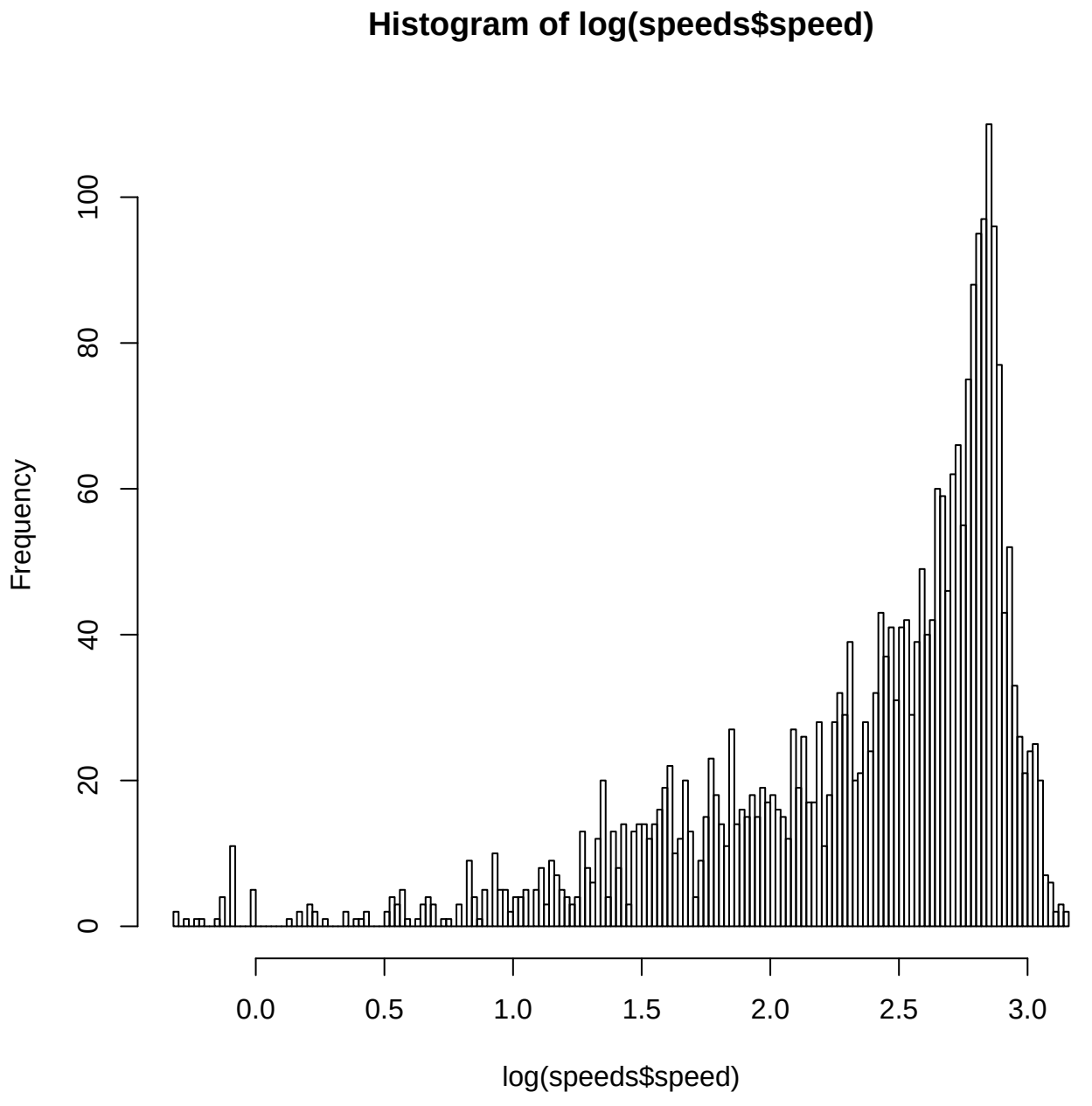

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

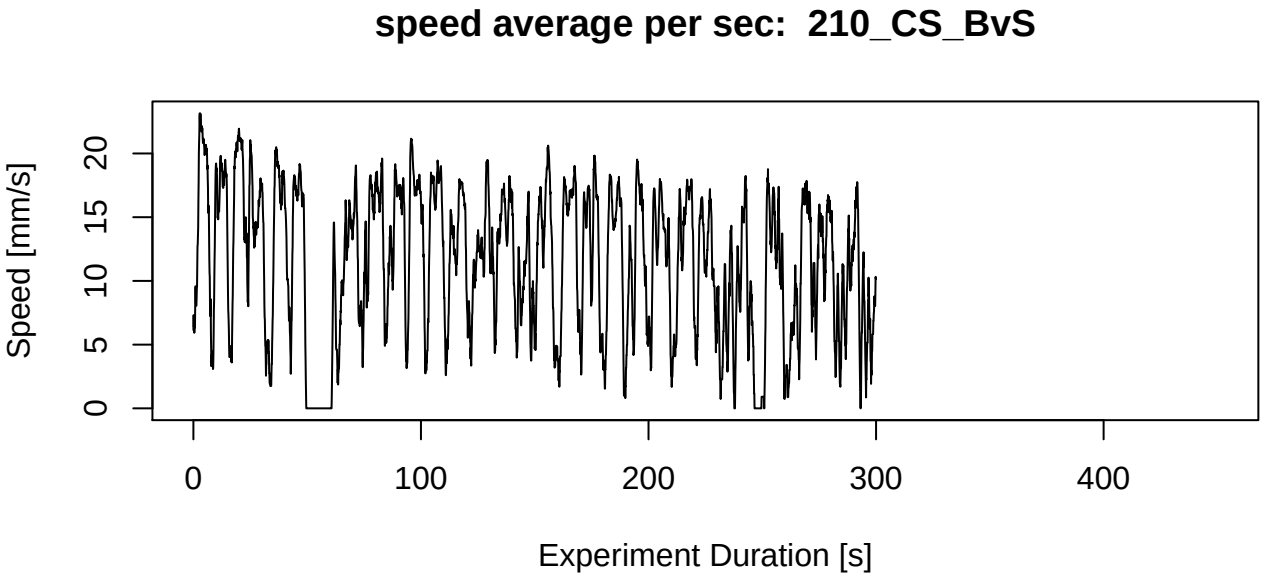

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

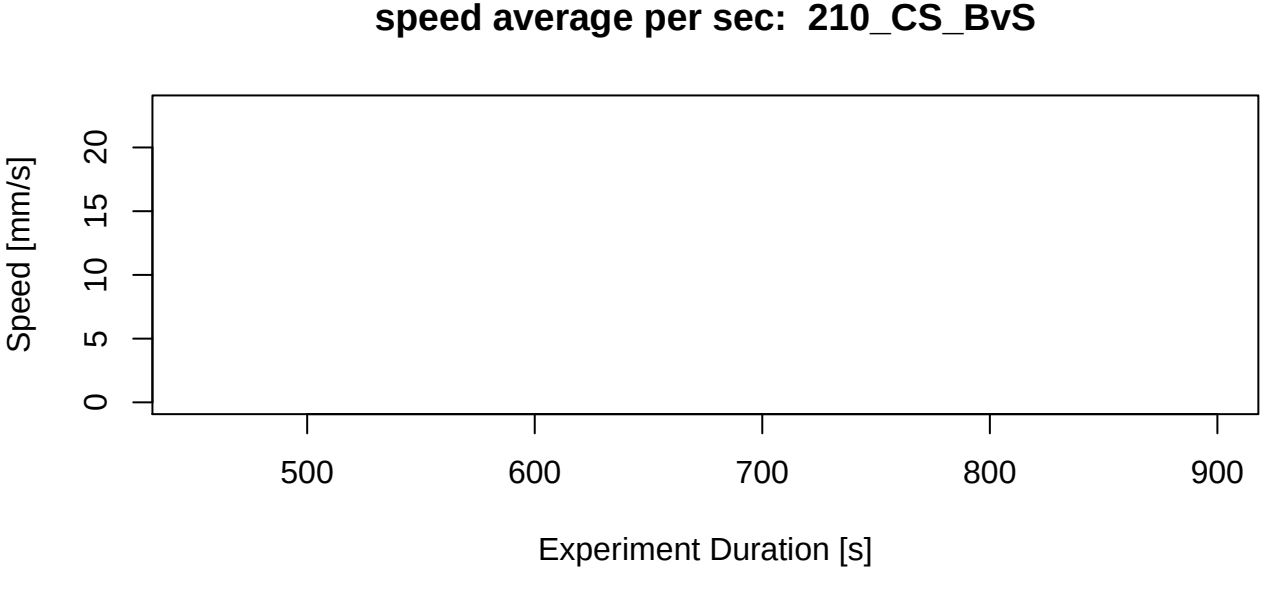

relative angle histogram
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2

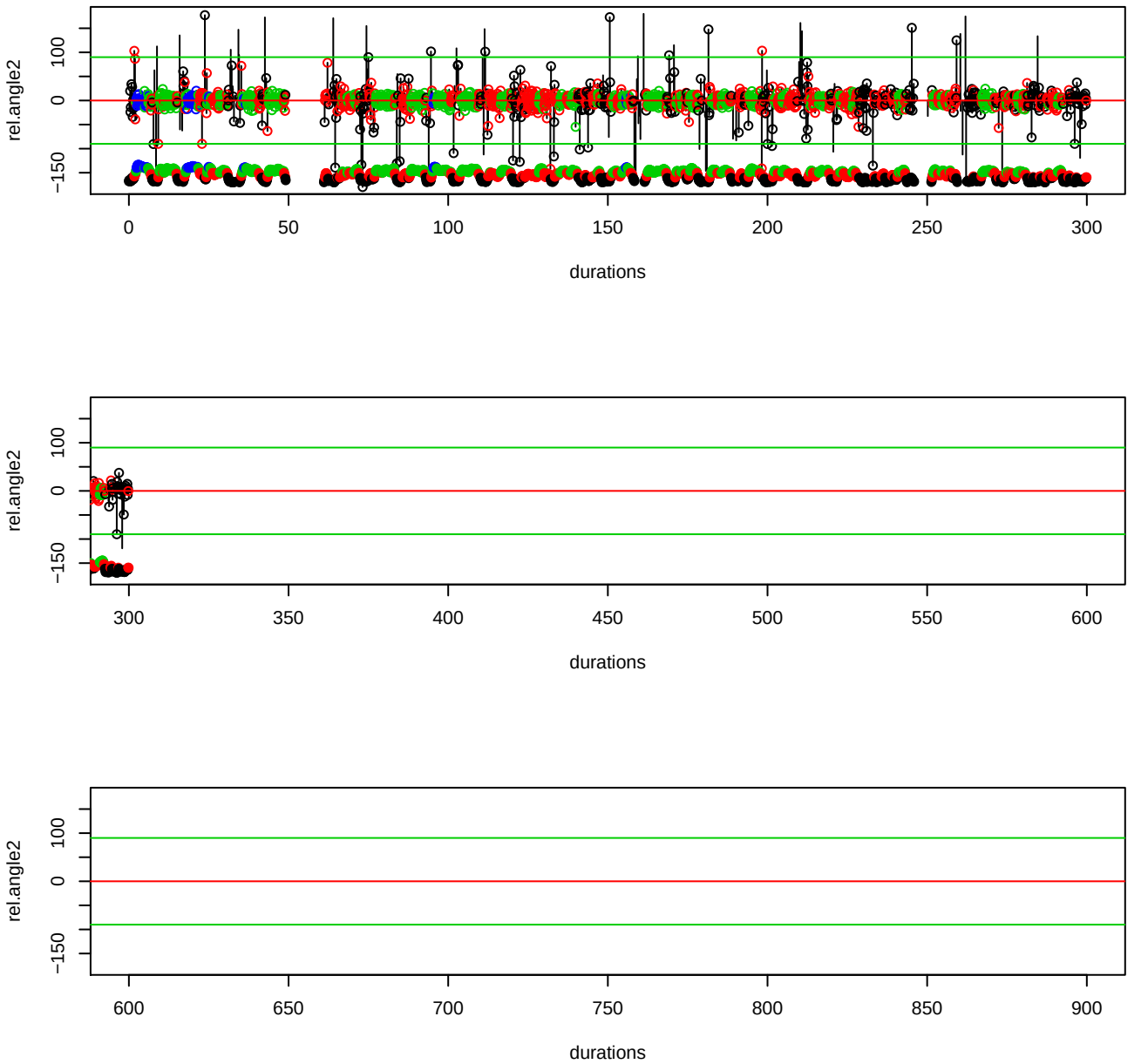

meander histogram (*7.5)
Density
0.00
0.10
0.20
0.30
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

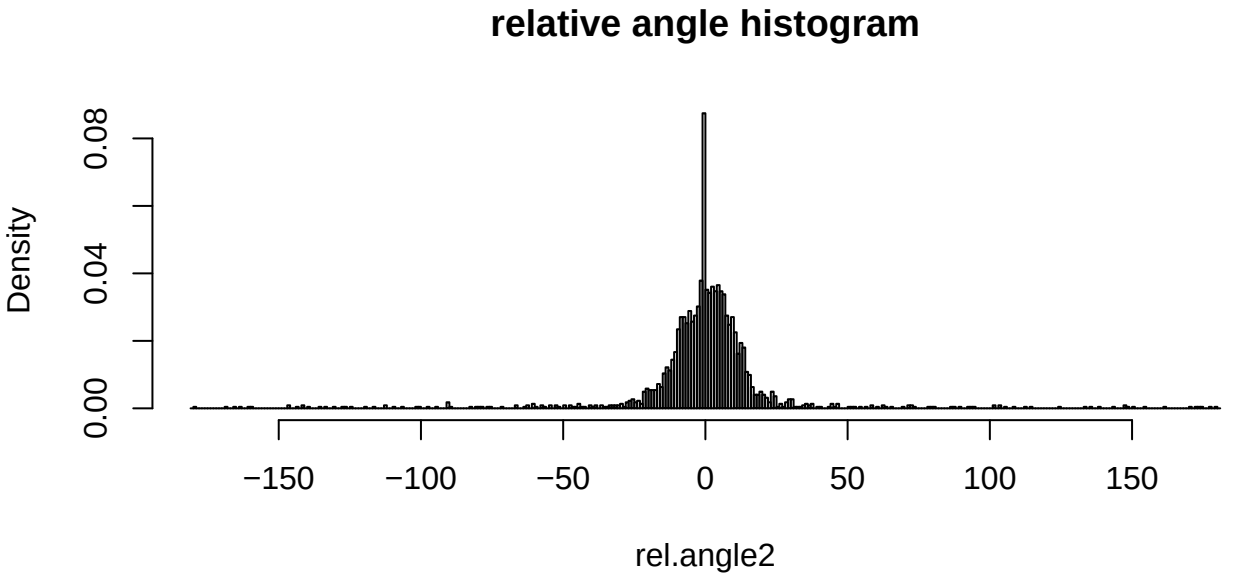

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

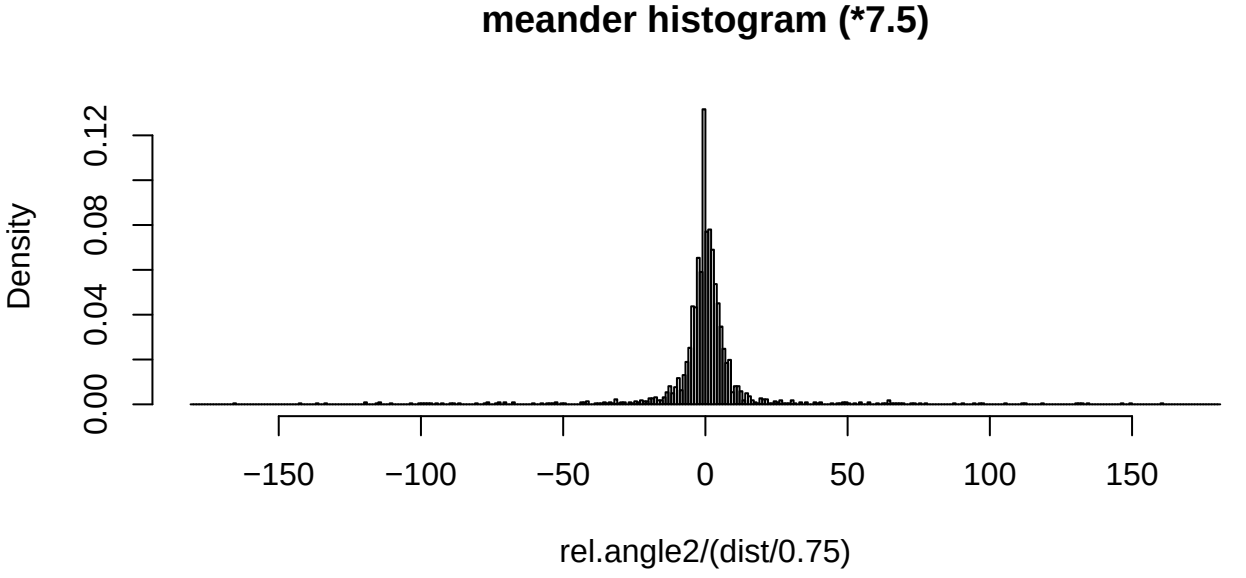

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

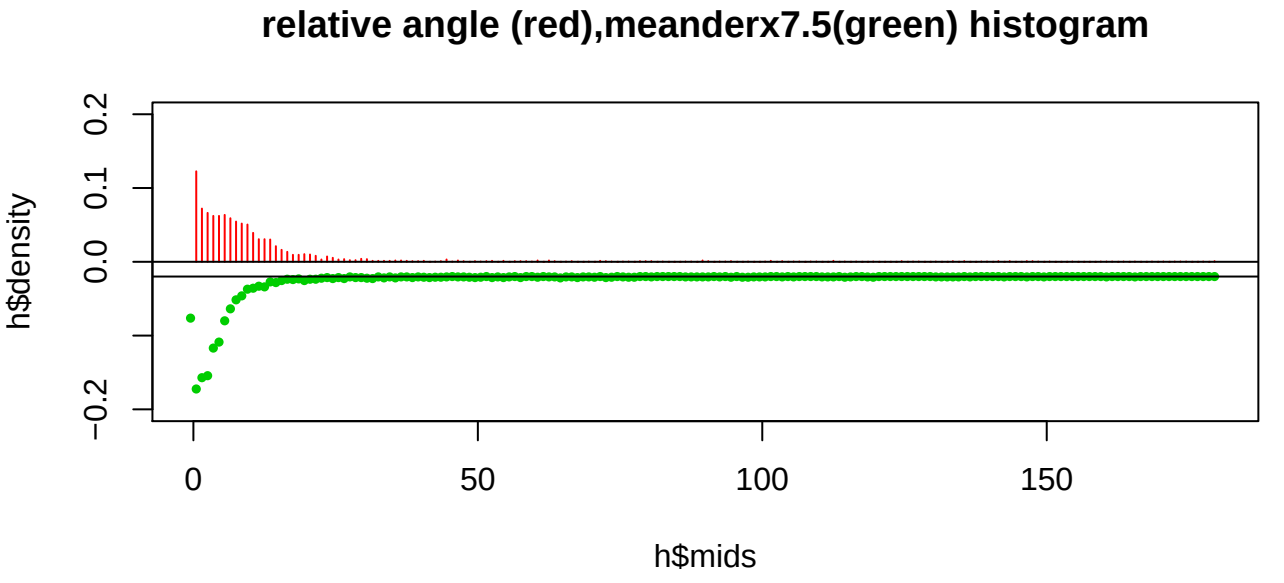

speed average per sec: 210_CS_BvS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

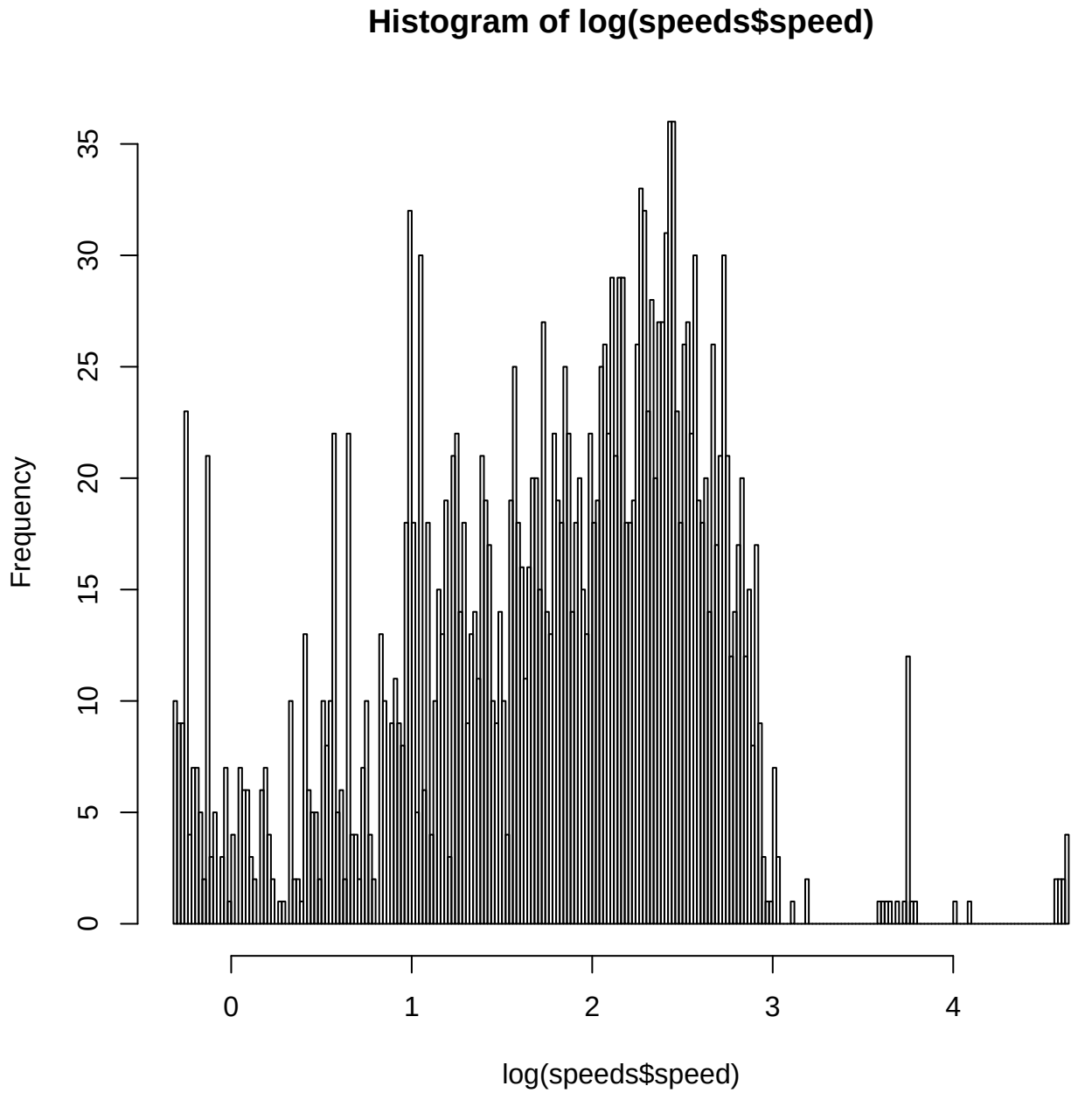

speed average per sec: 210_CS_BvS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

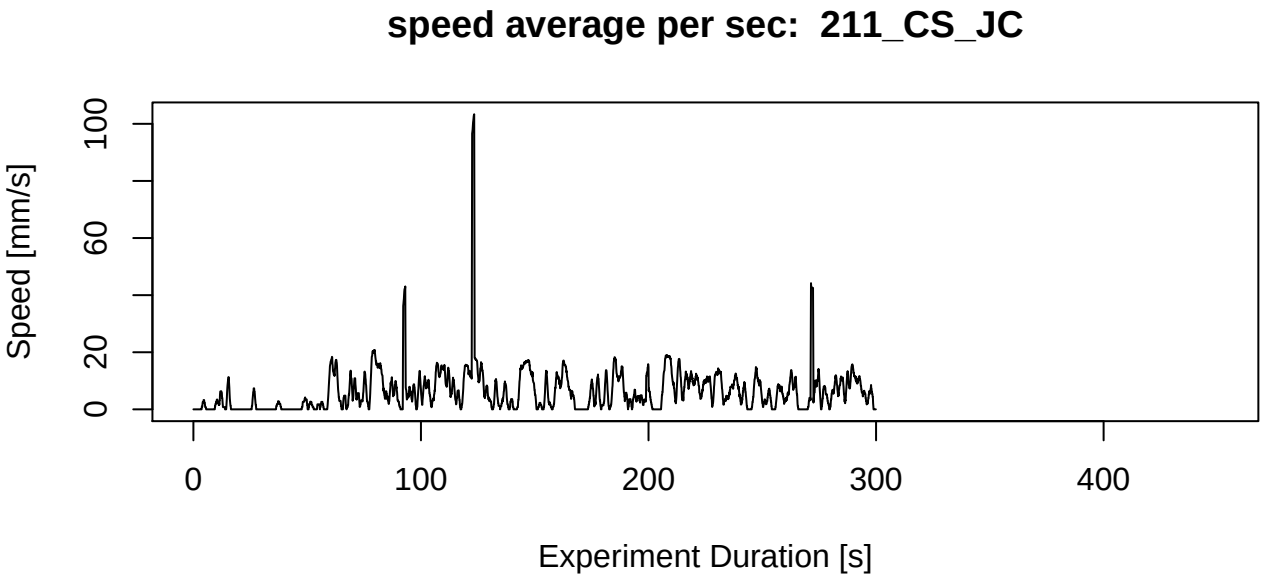

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

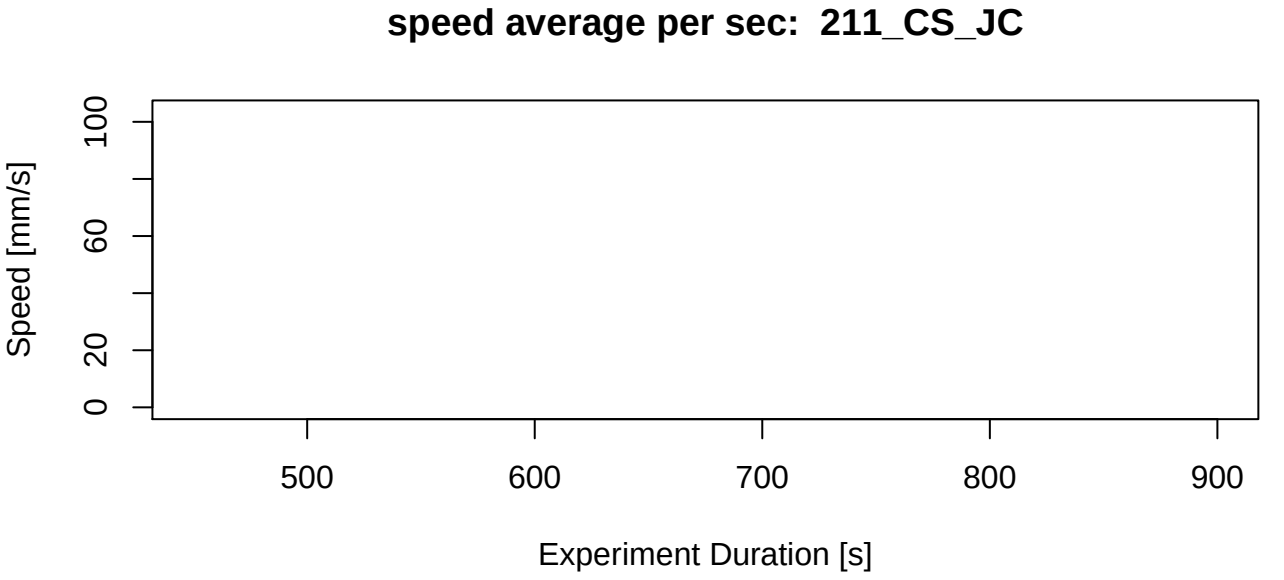

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

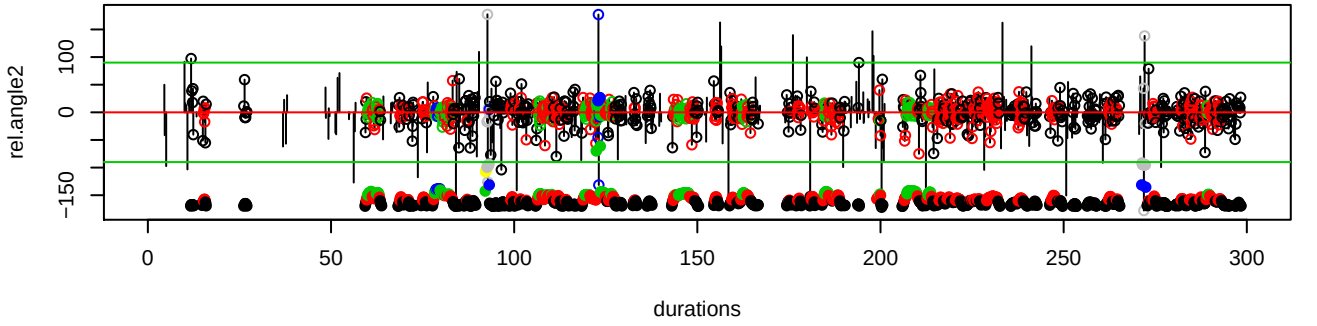

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

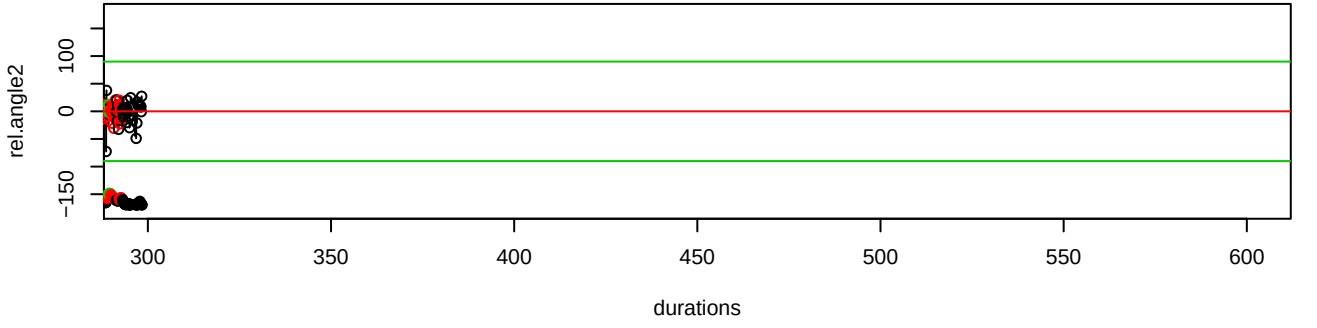

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

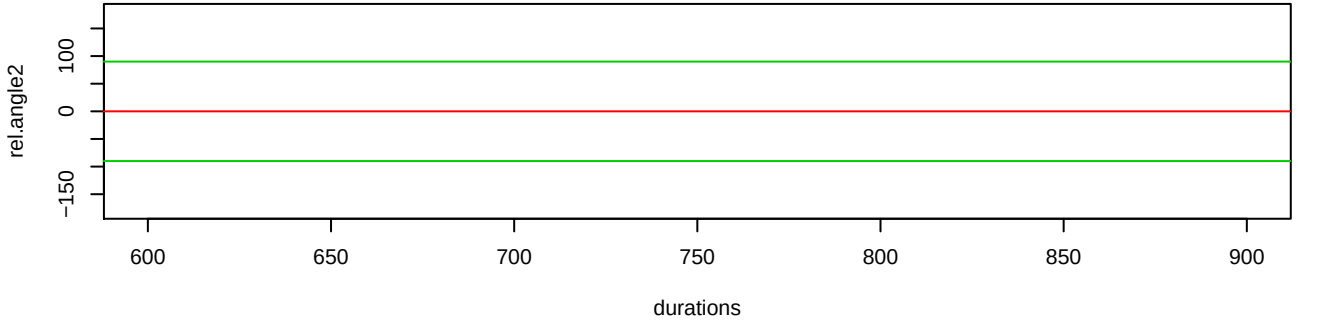

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
35
0
1
2
3
4
log(speeds$speed)

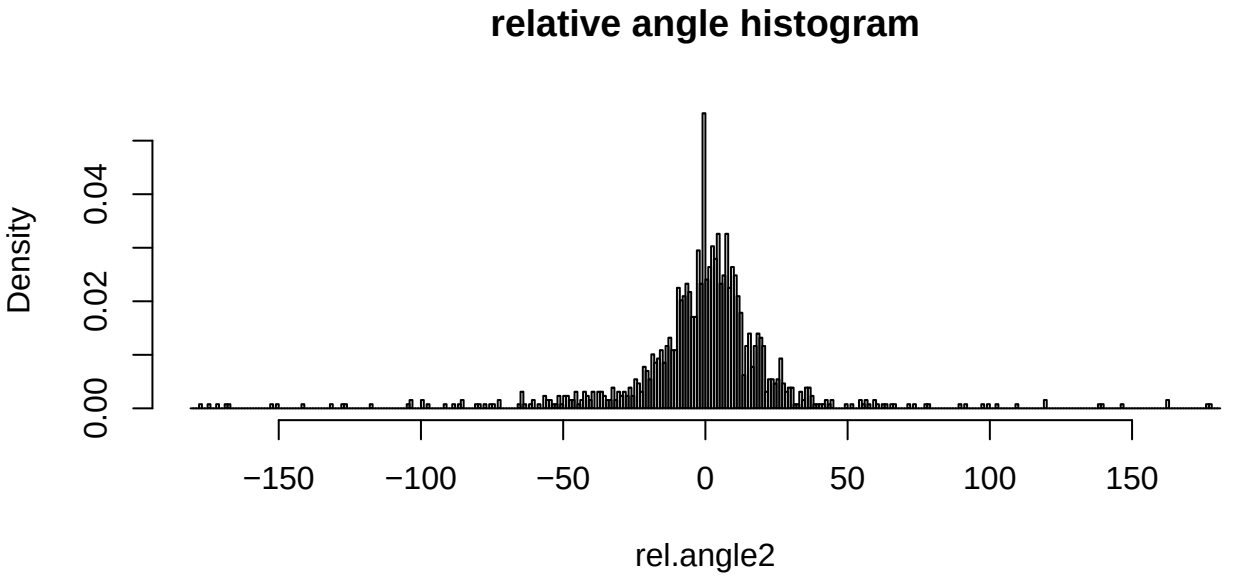

speed average per sec: 211_CS_JC
Speed [mm/s]
0
20
60
100
0
100
200
300
400
Experiment Duration [s]

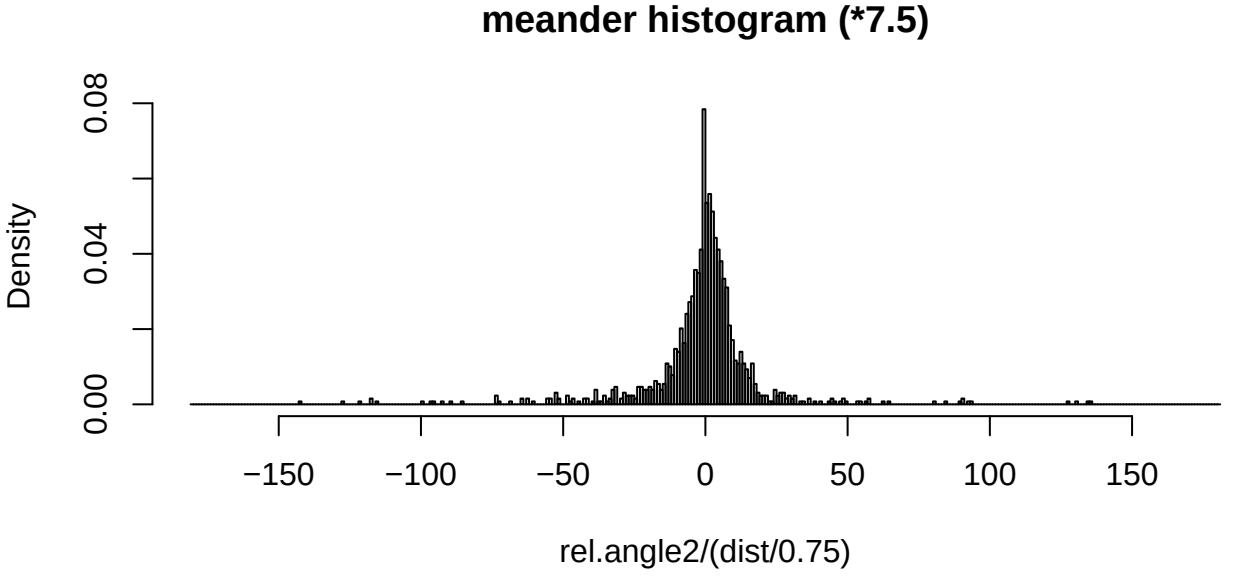

speed average per sec: 211_CS_JC
Speed [mm/s]
0
20
60
100
500
600
700
800
900
Experiment Duration [s]

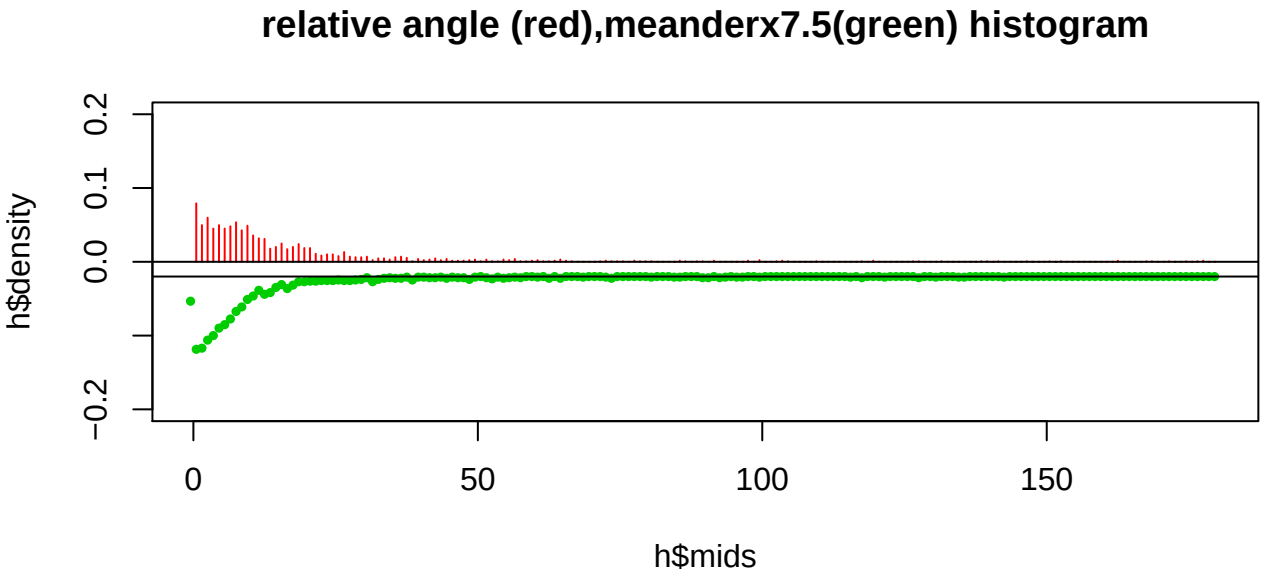

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

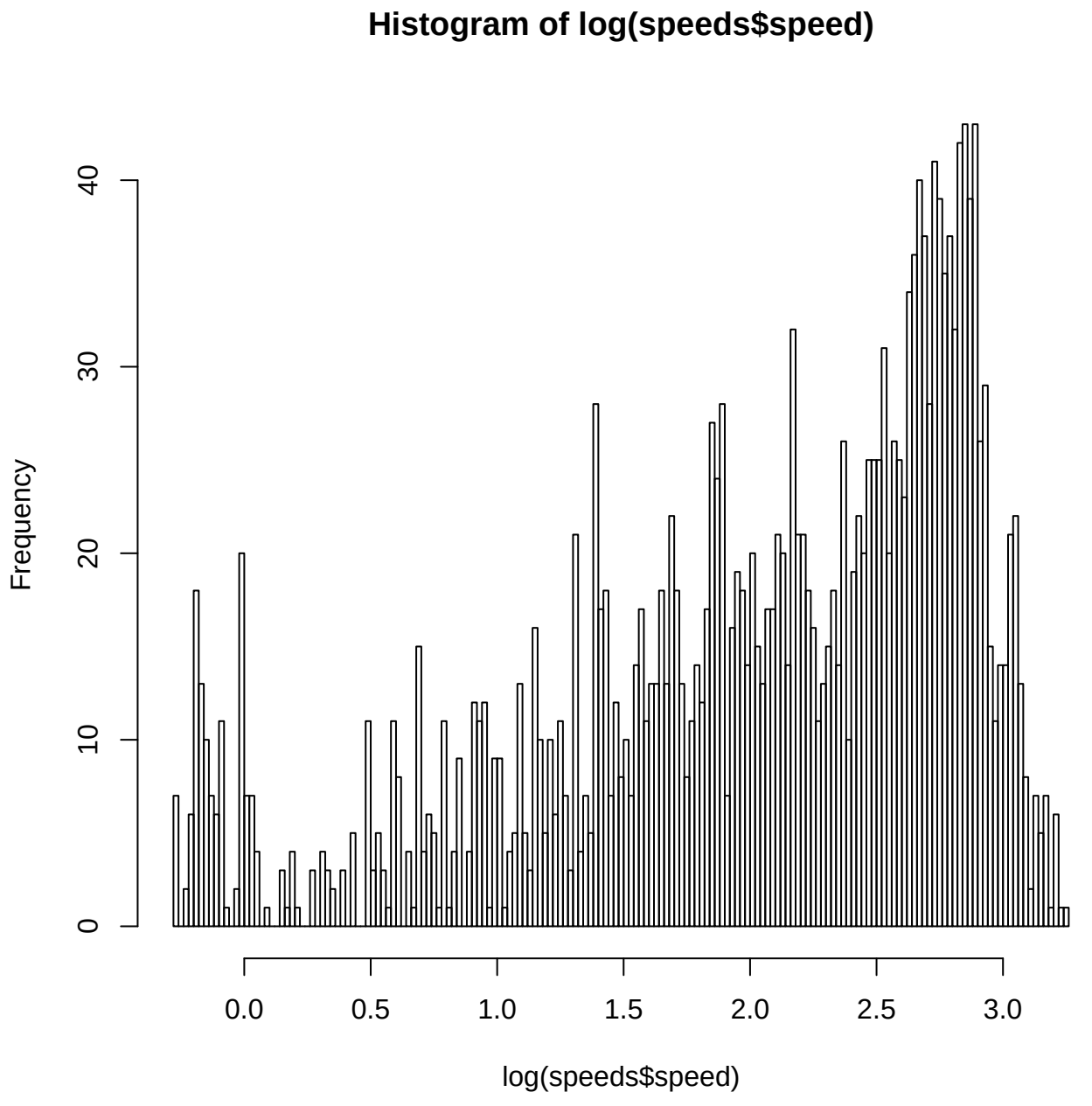

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

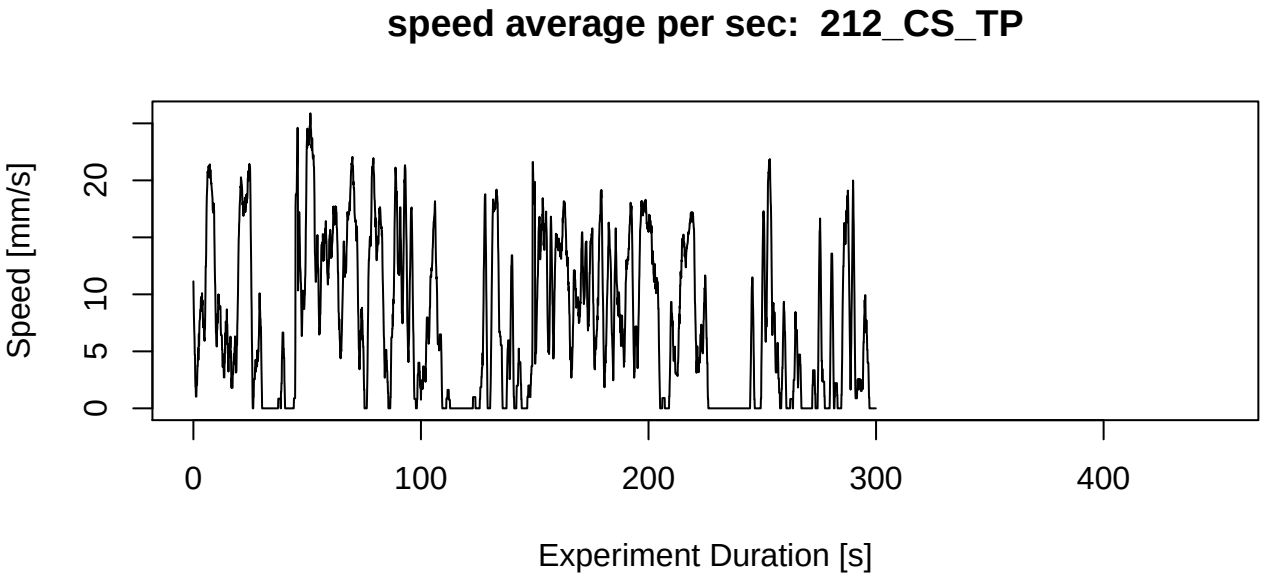

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

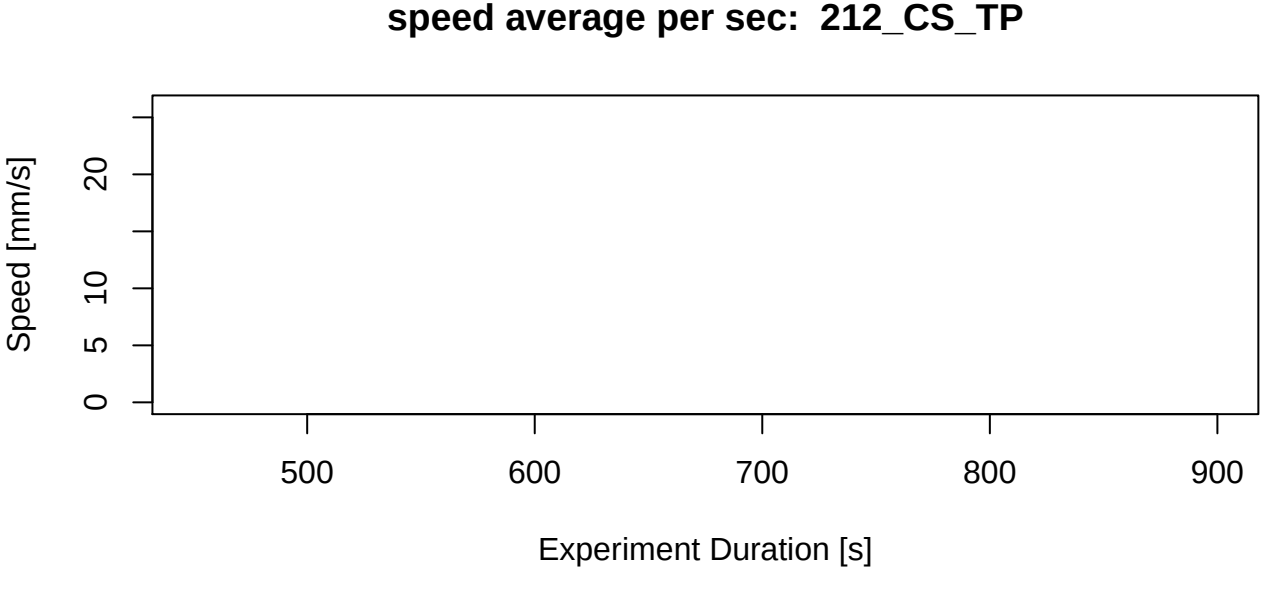

relative angle histogram
Density
0.00
0.02
0.04
−150
−100
−50
0
50
100
150
rel.angle2

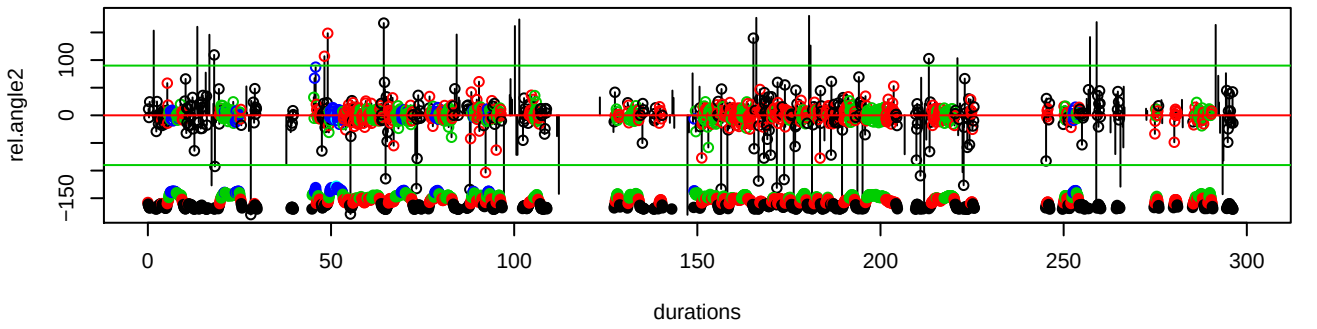

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

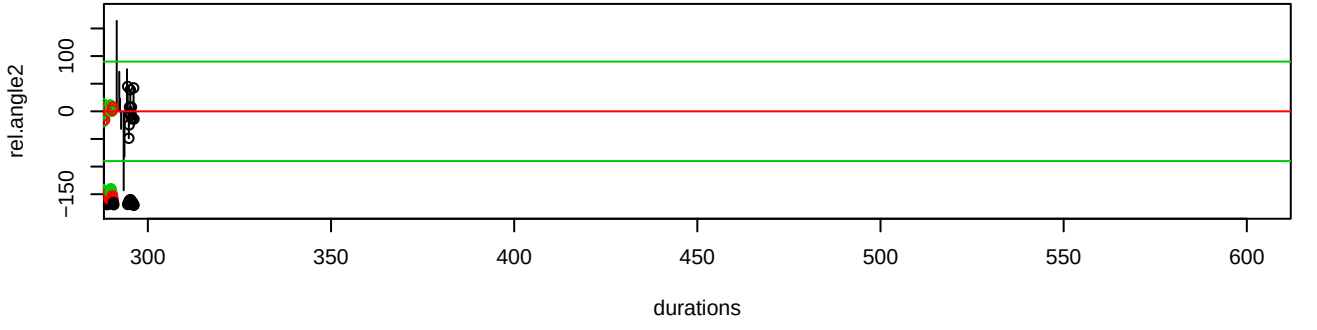

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

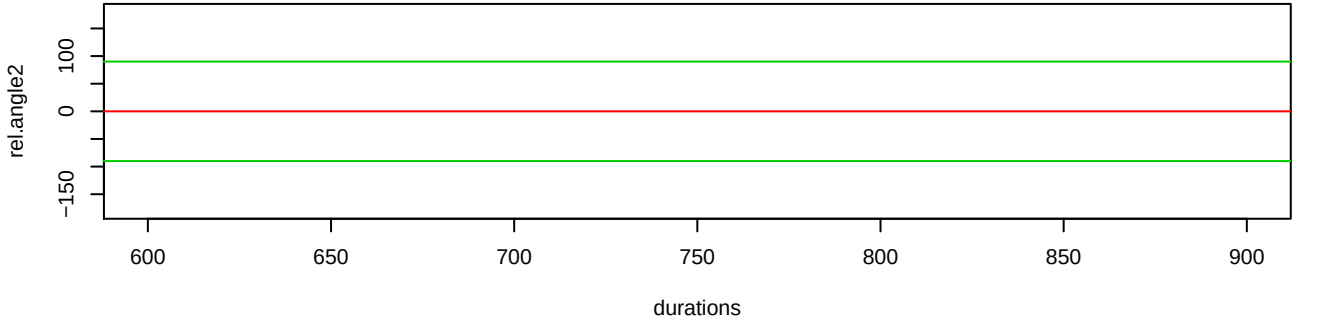

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

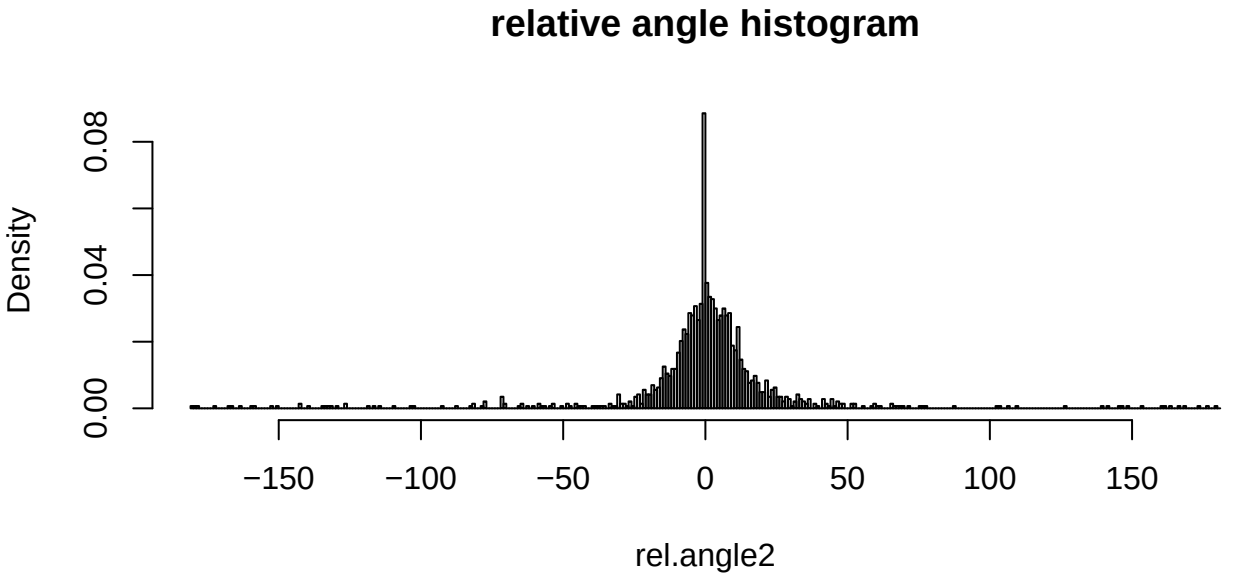

speed average per sec: 212_CS_TP
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

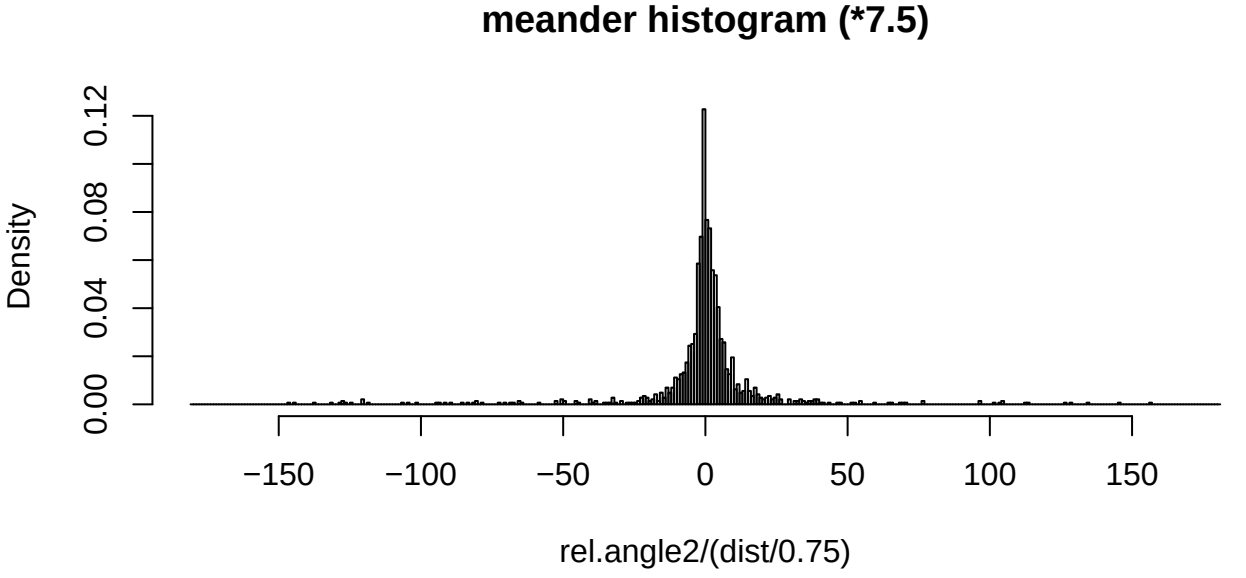

speed average per sec: 212_CS_TP
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

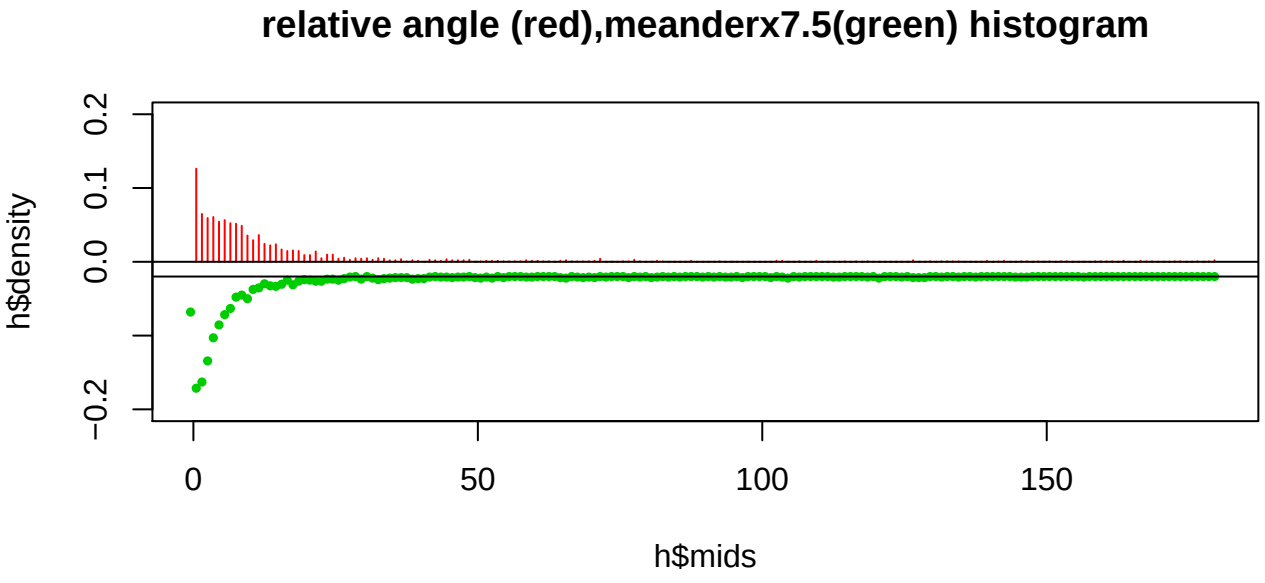

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

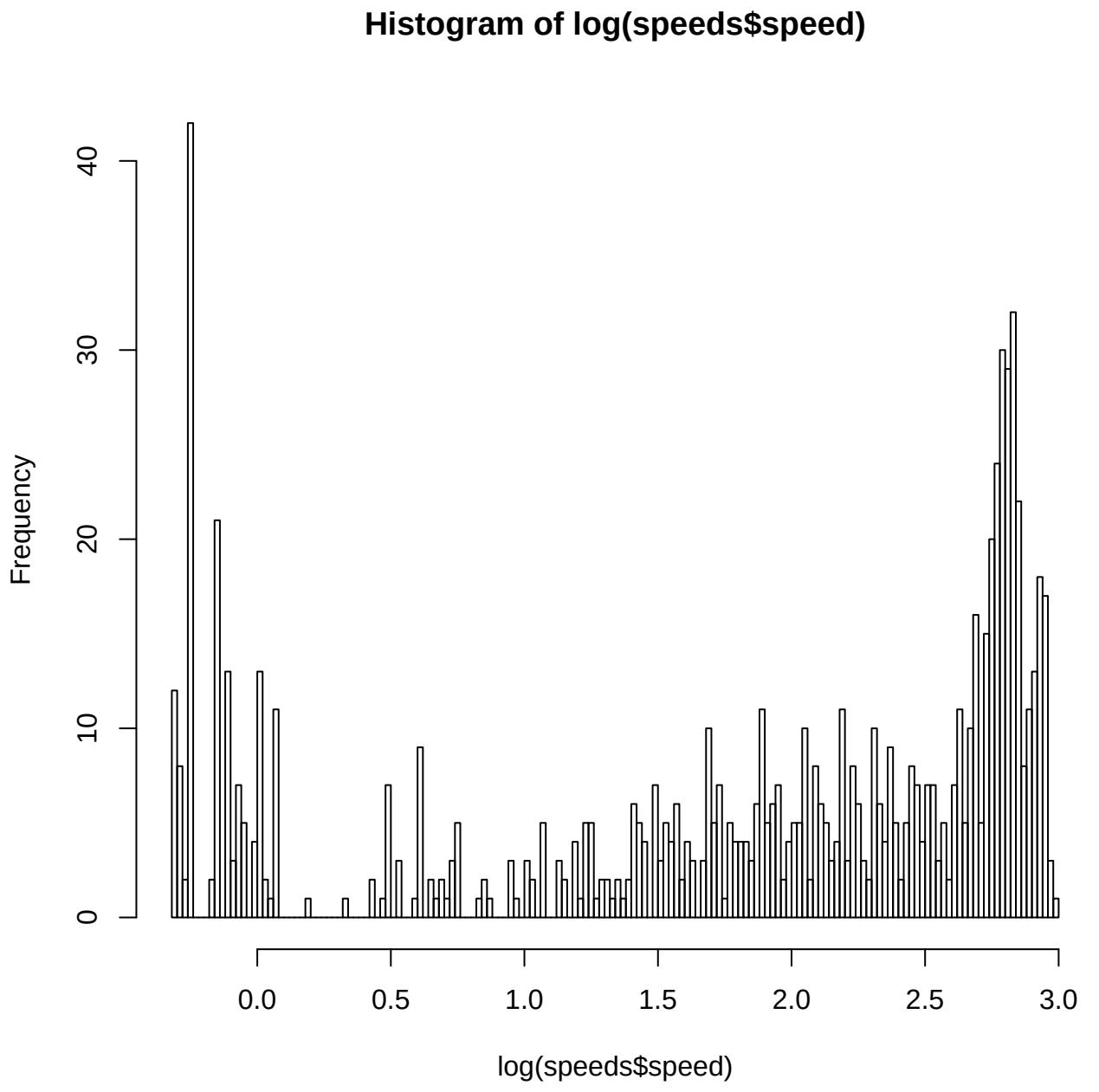

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

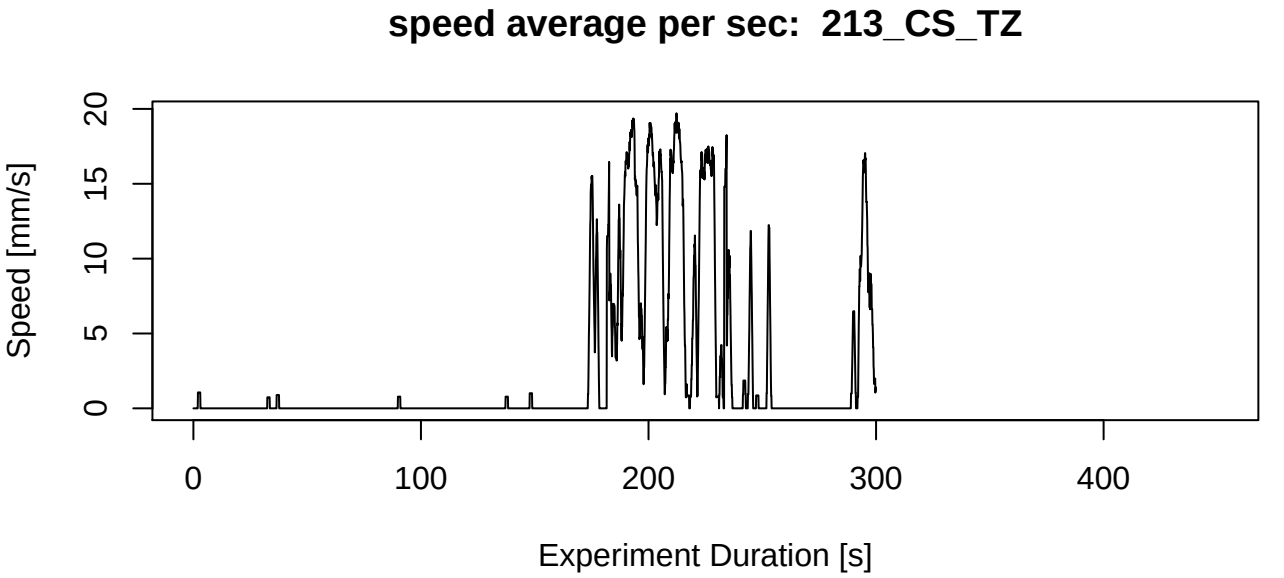

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

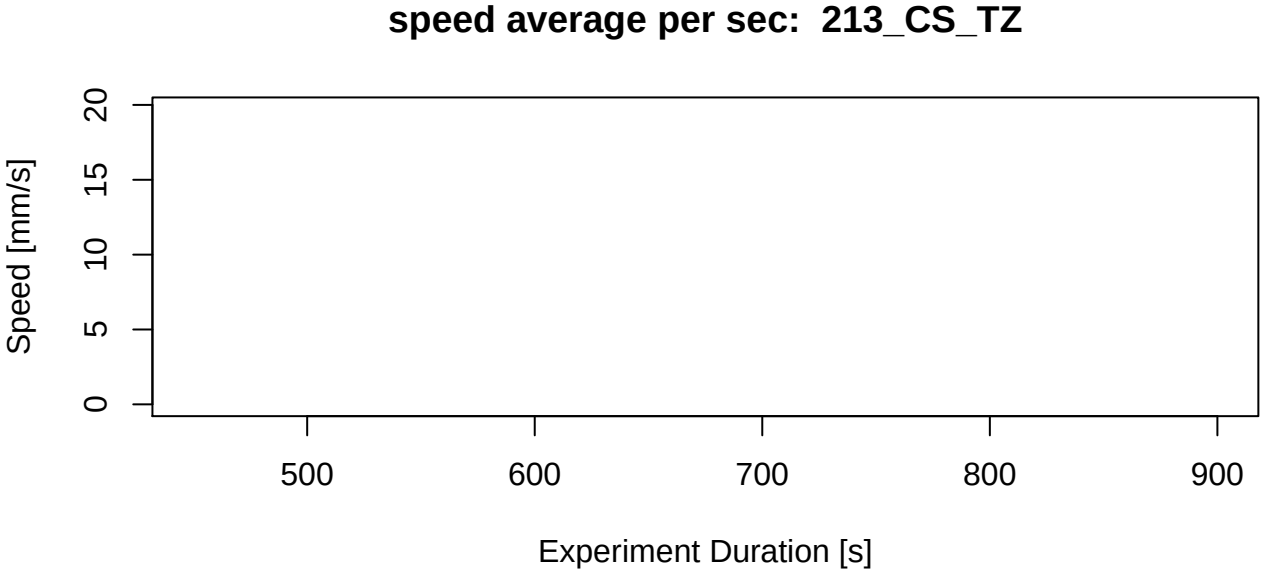

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

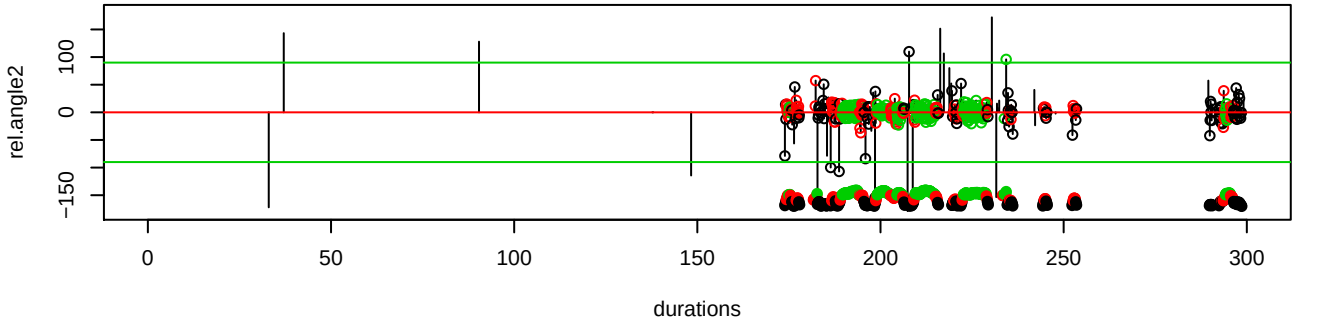

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

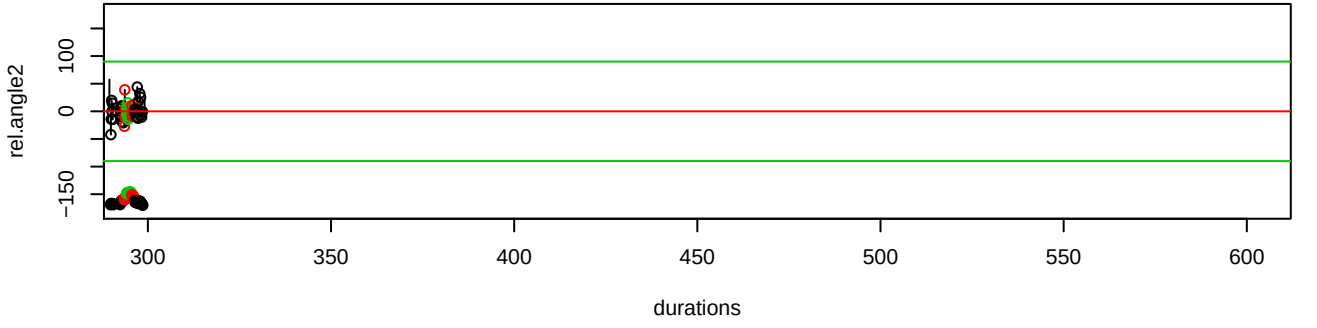

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

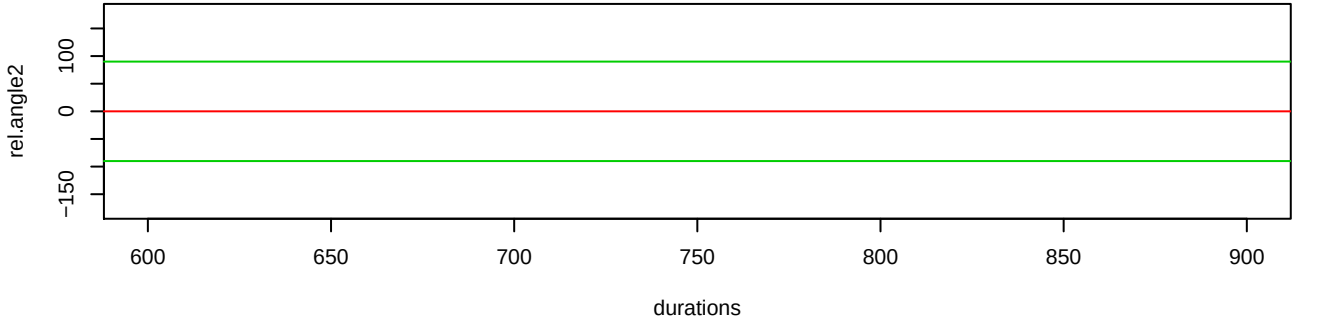

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

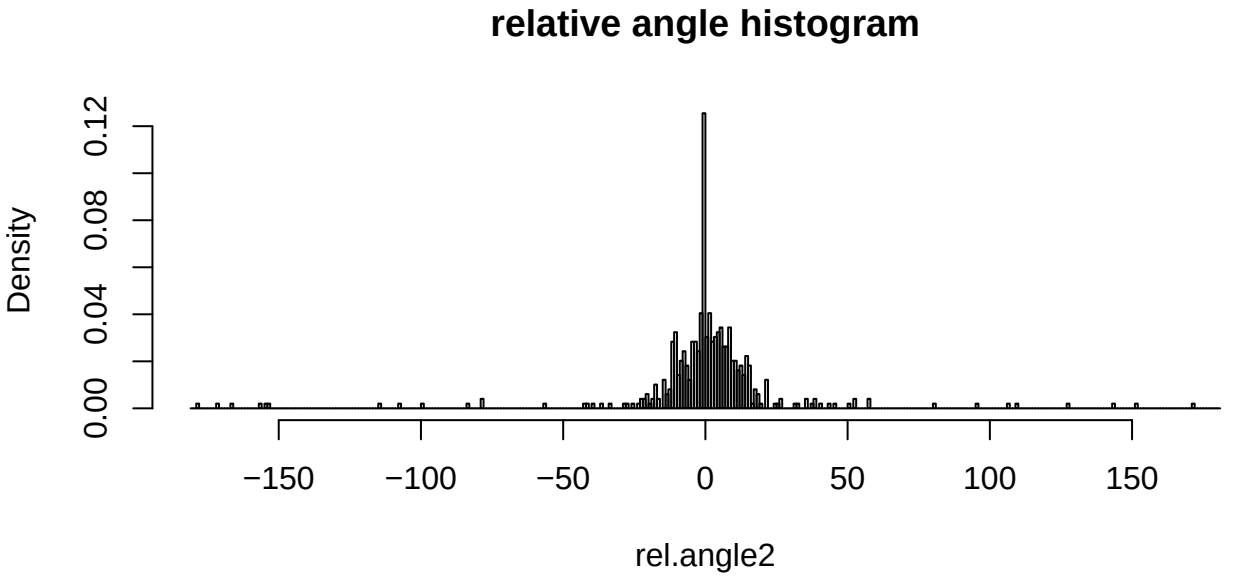

speed average per sec: 213_CS_TZ
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

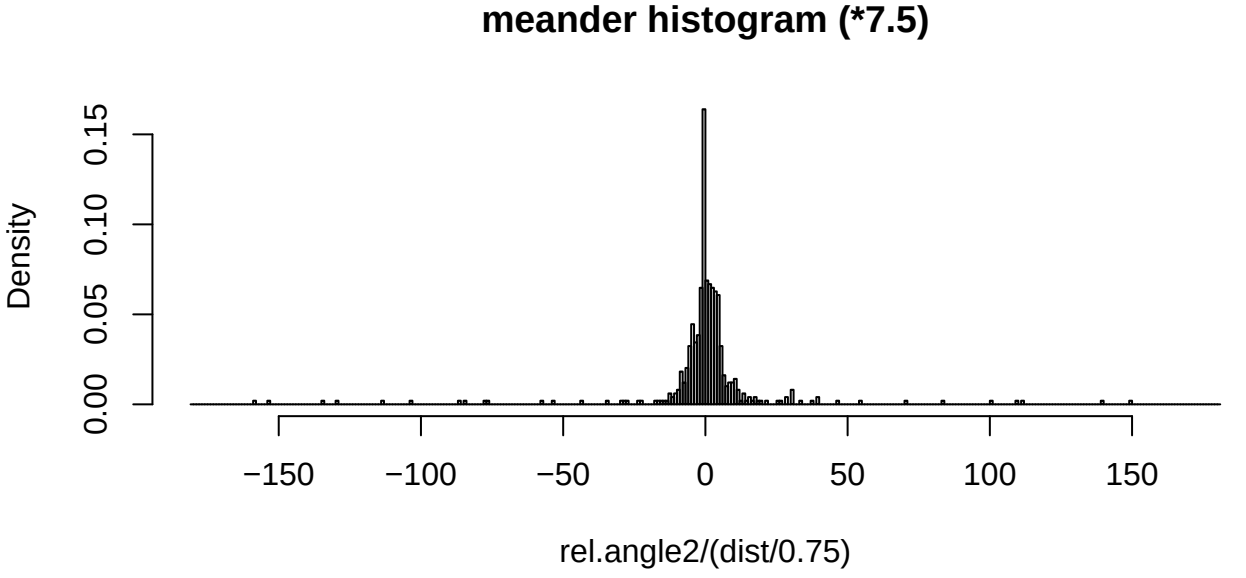

speed average per sec: 213_CS_TZ
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

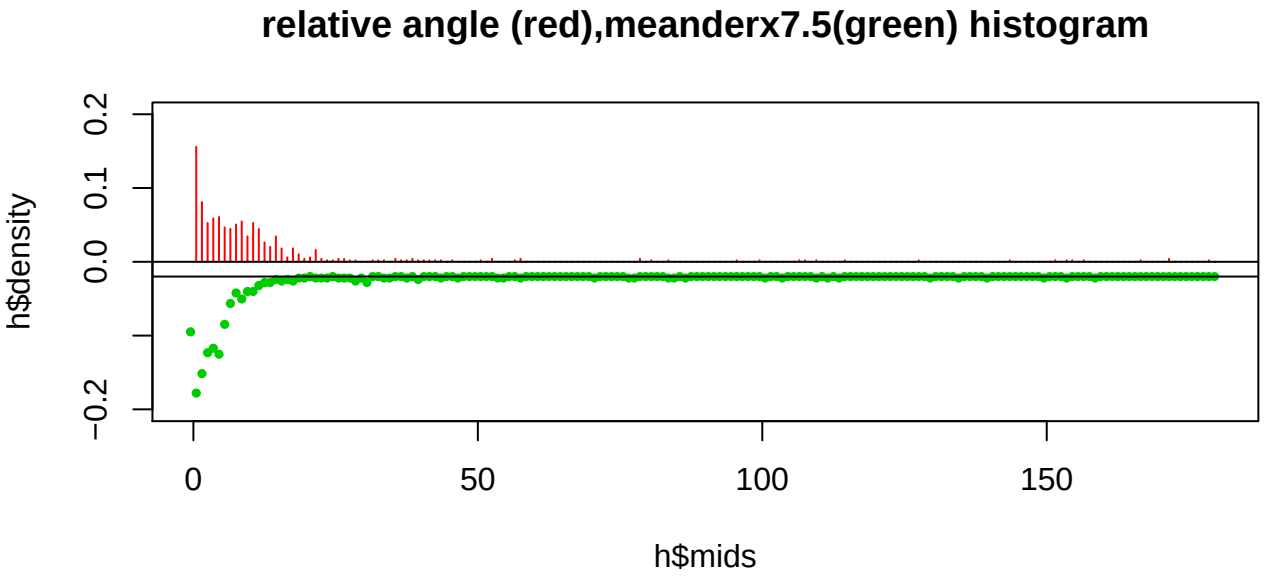

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

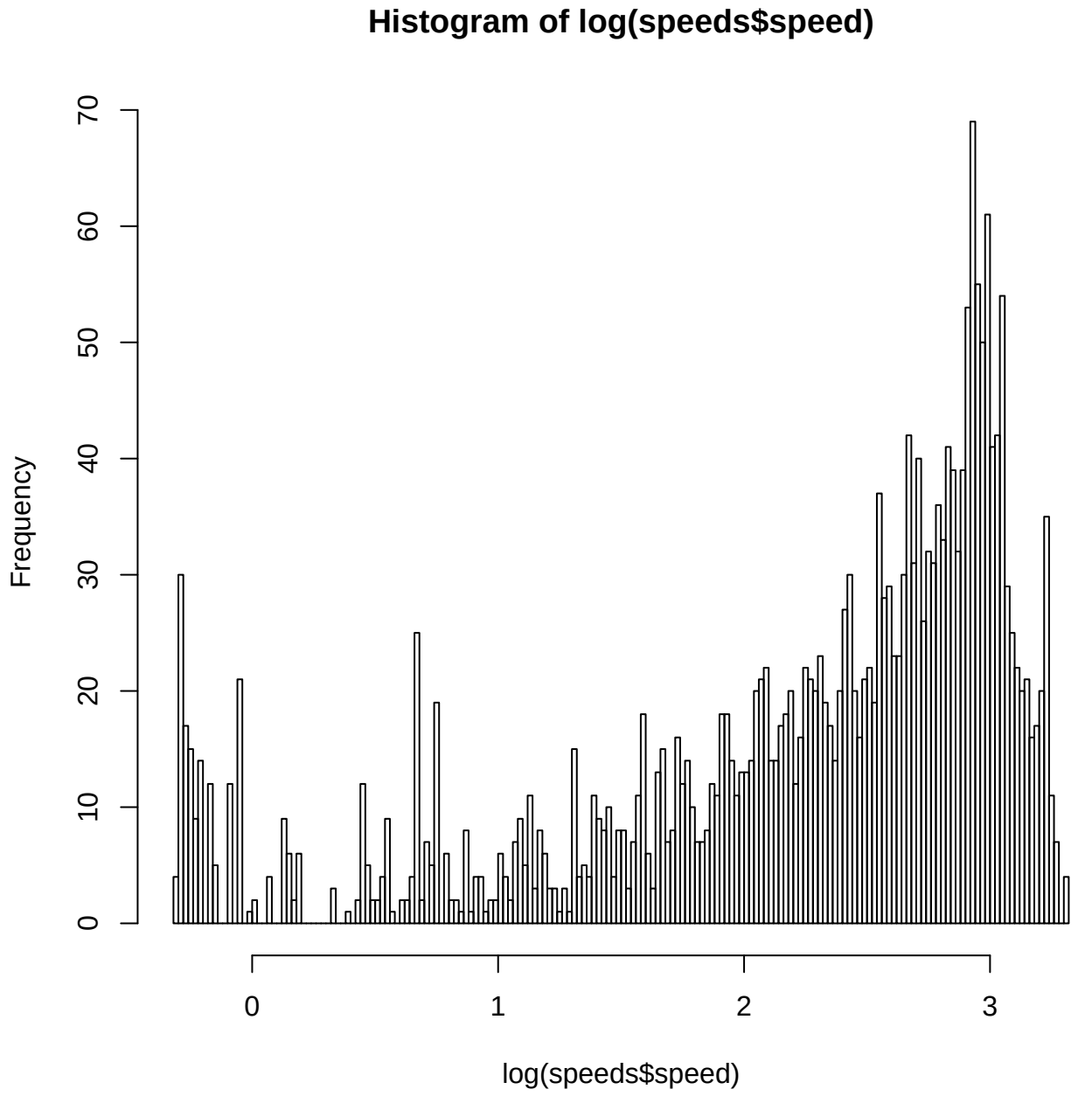

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

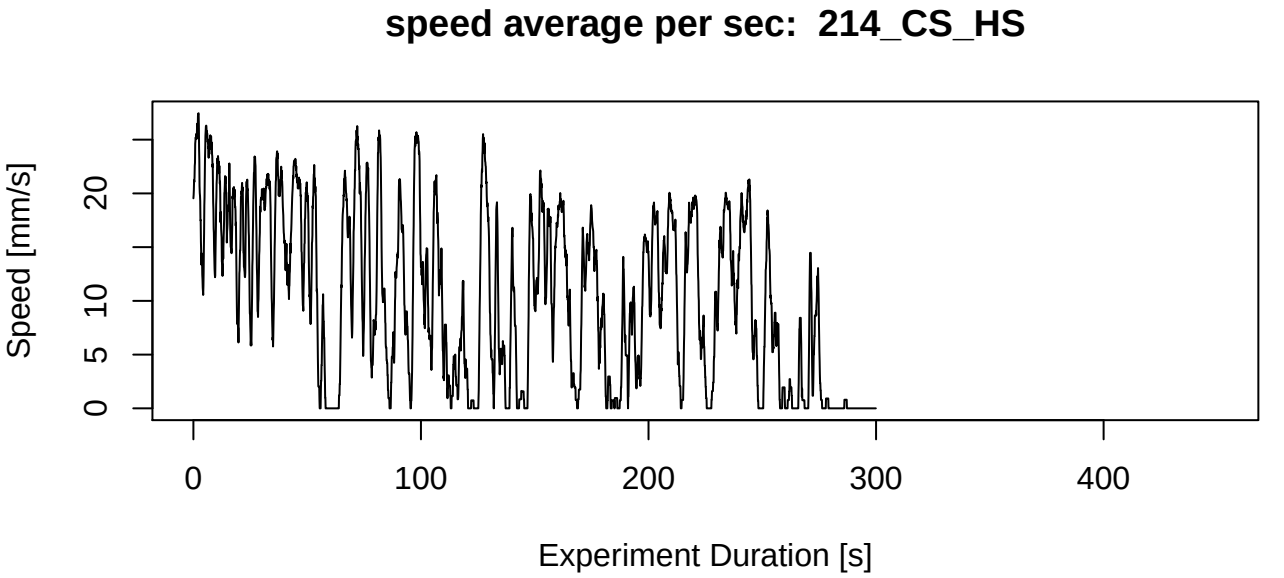

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

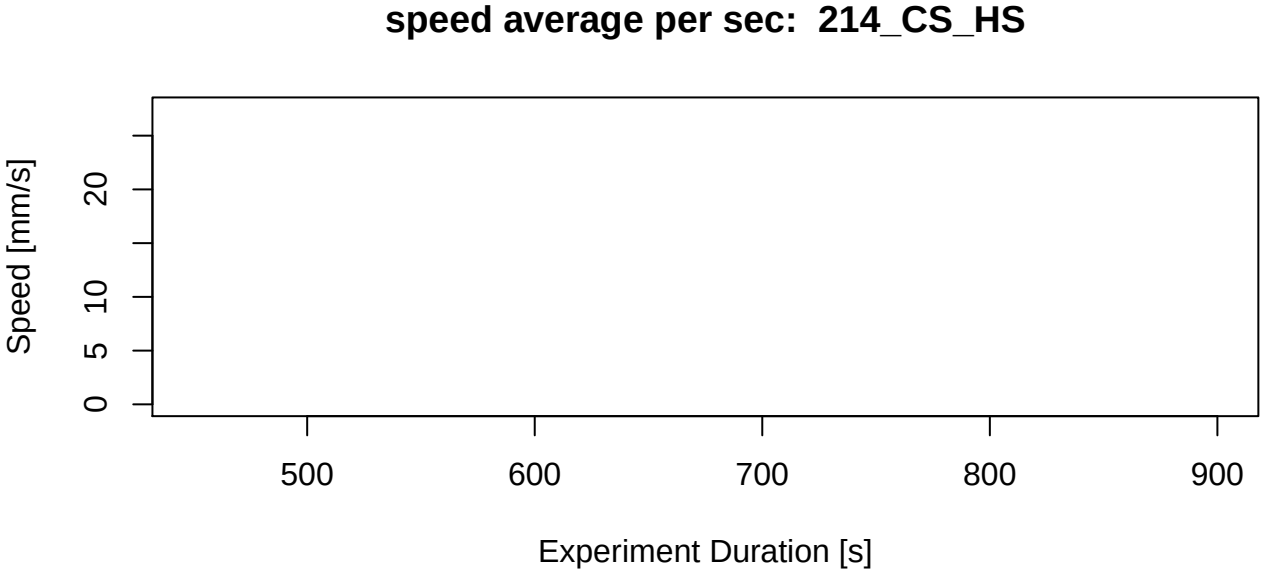

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

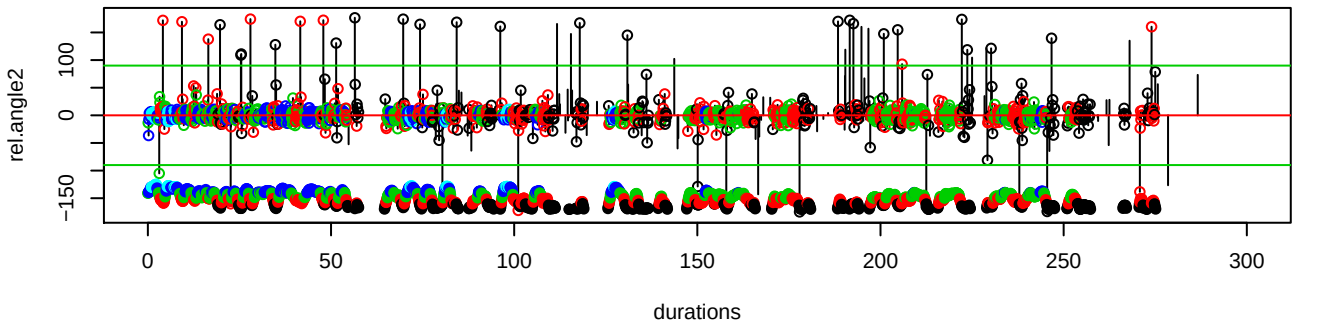

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

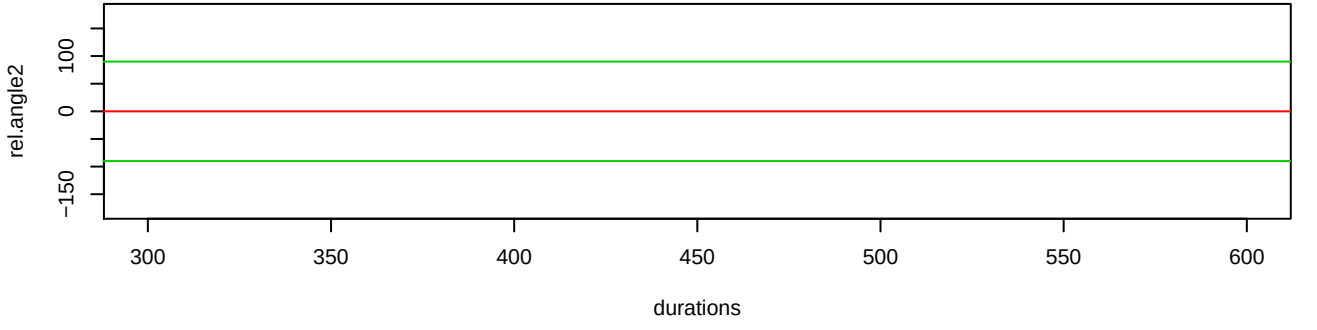

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

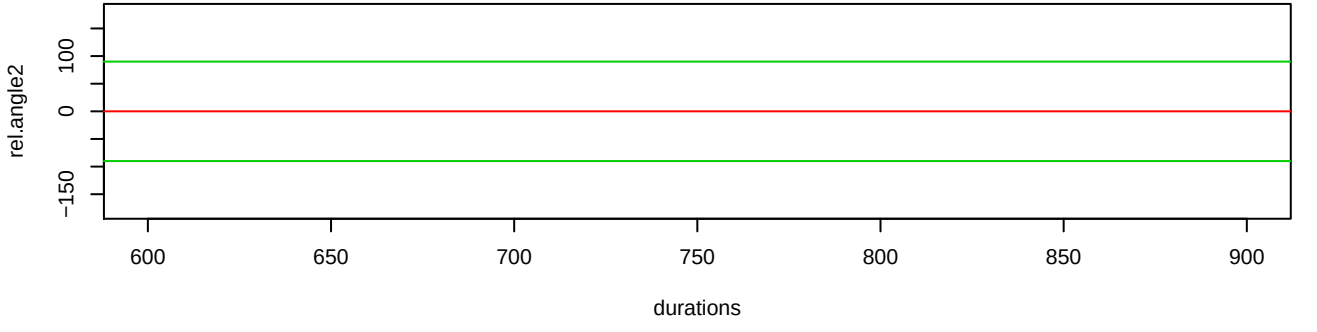

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0
1
2
3
log(speeds$speed)

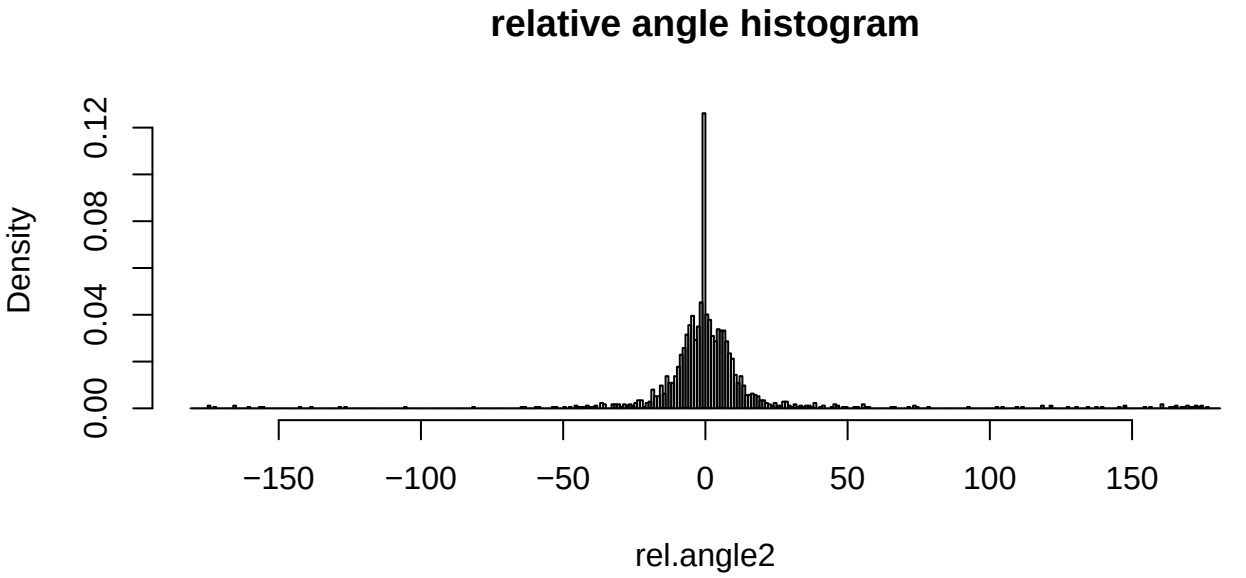

speed average per sec: 214_CS_HS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

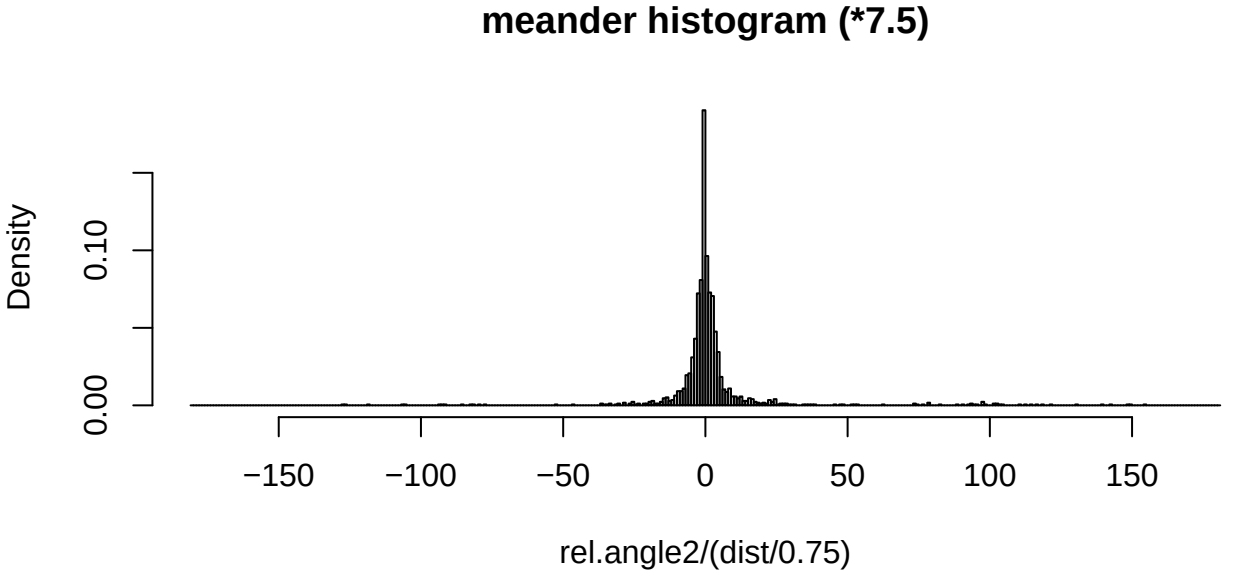

speed average per sec: 214_CS_HS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

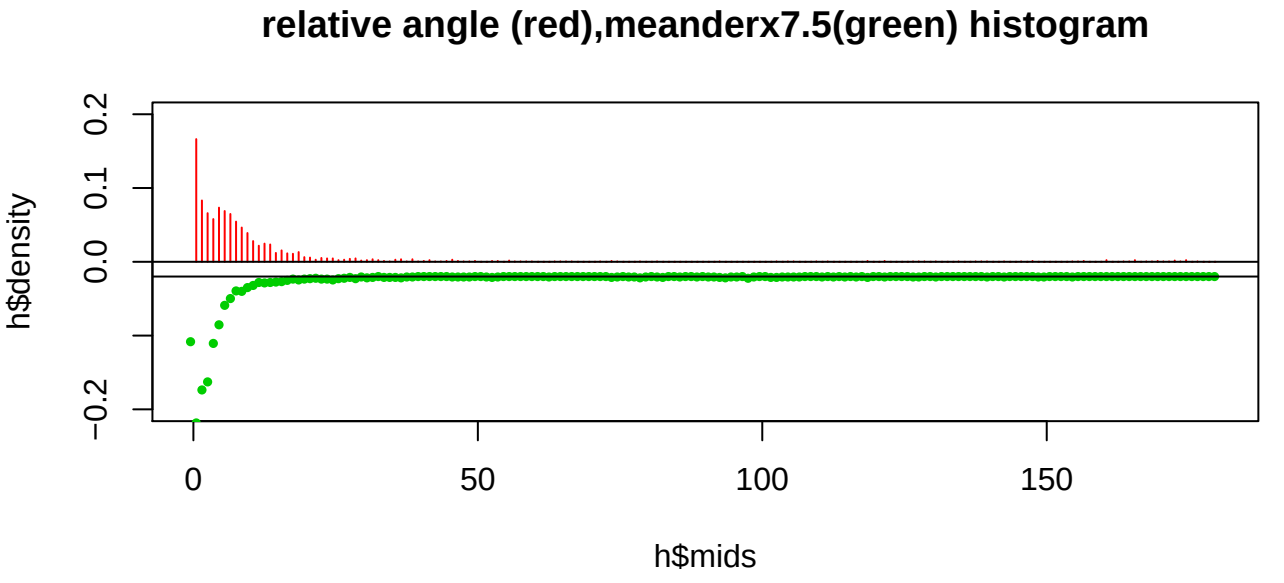

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

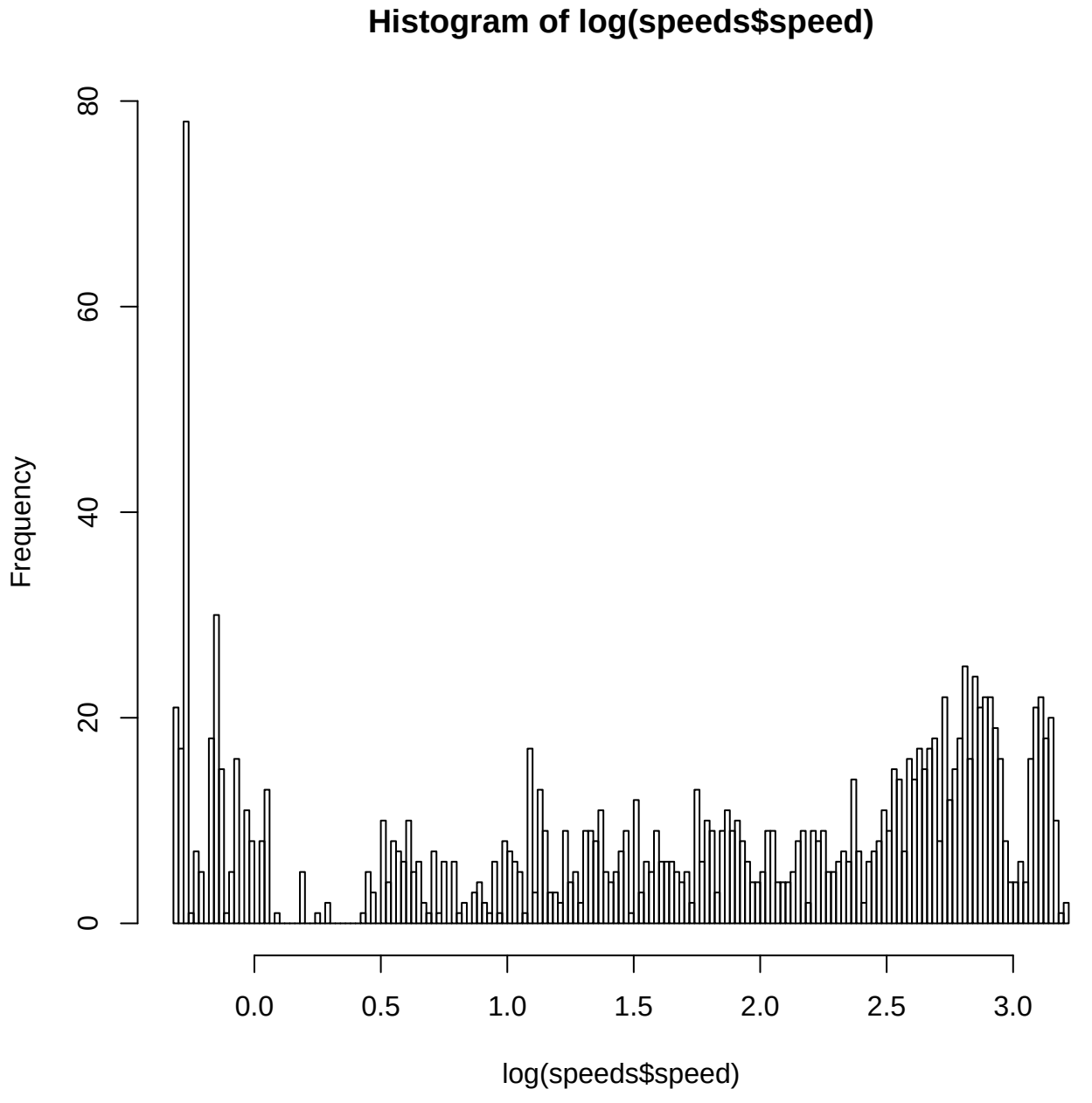

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

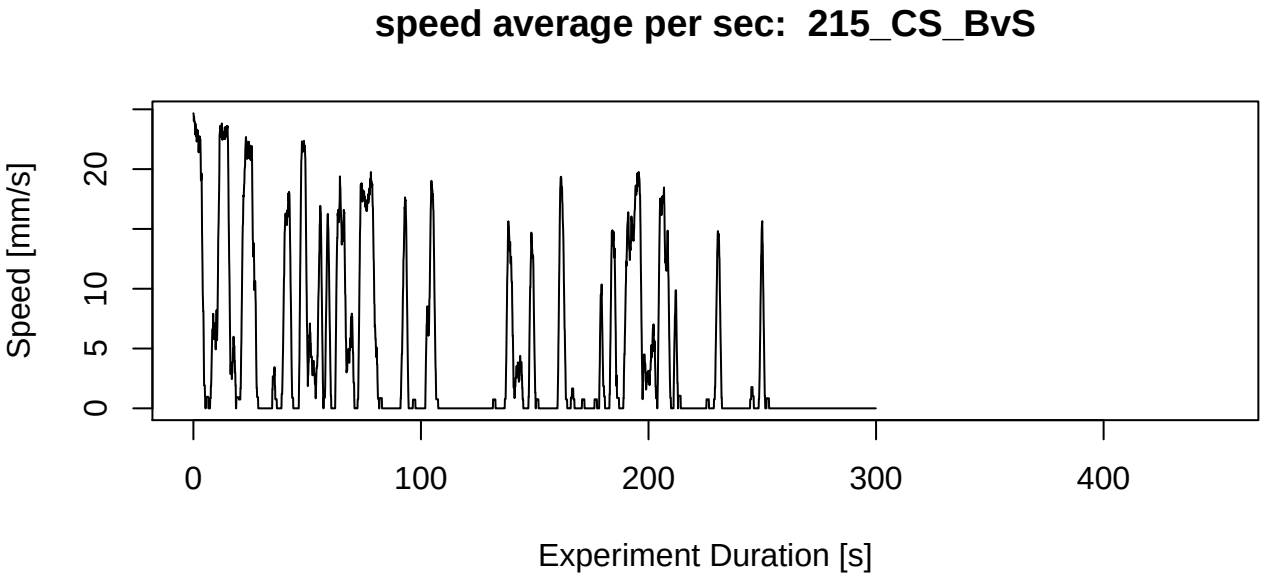

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

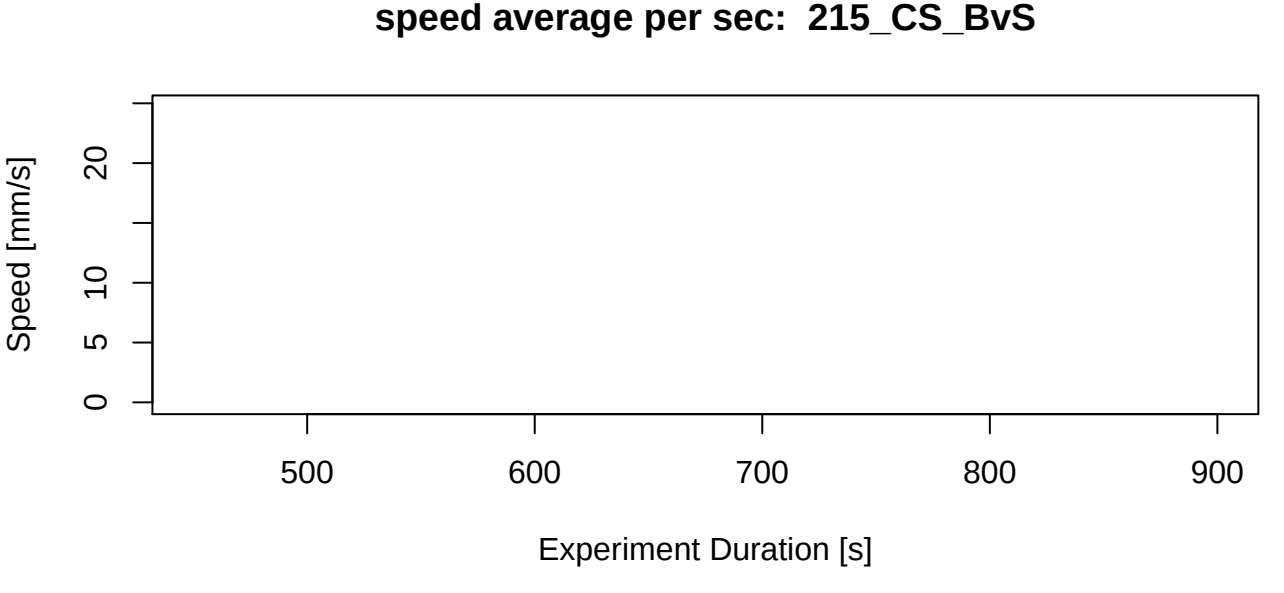

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

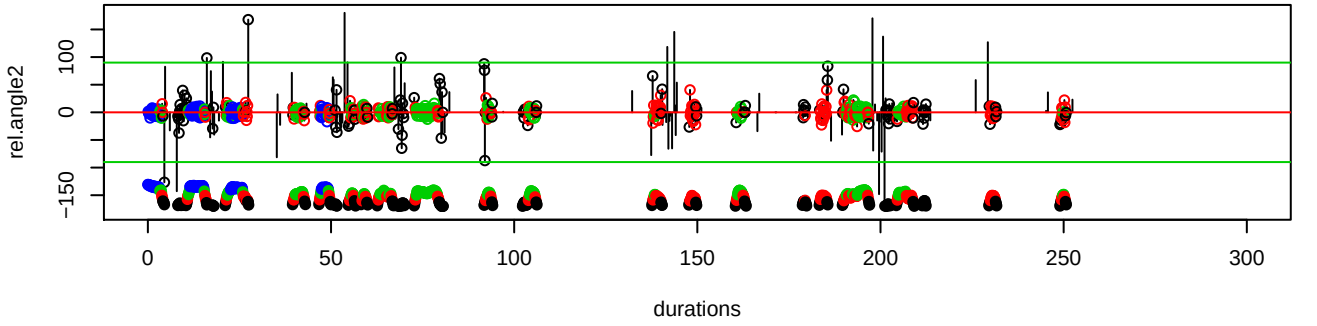

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

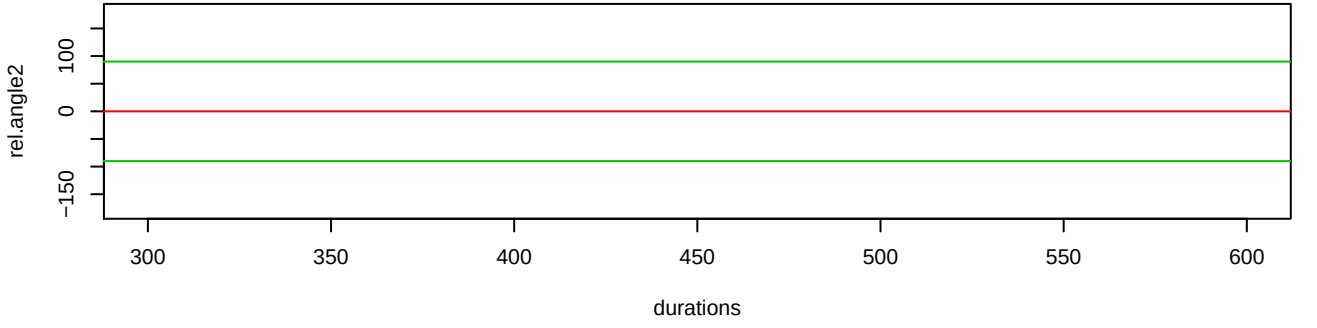

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

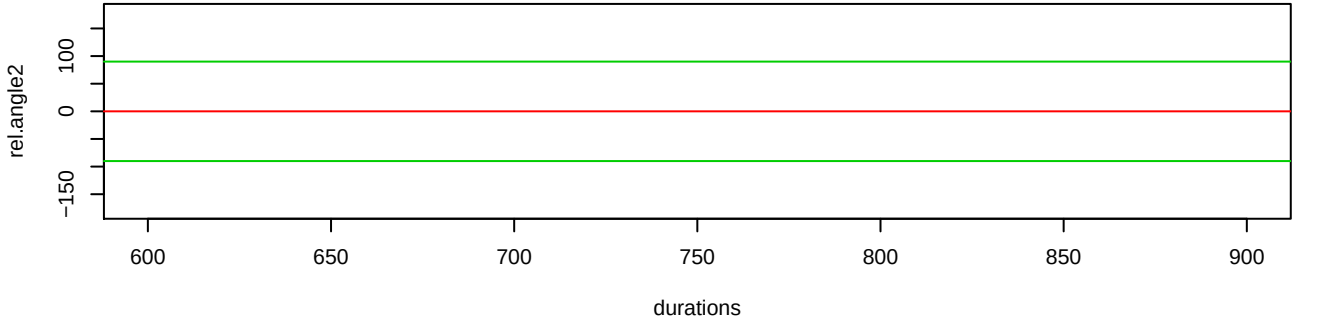

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

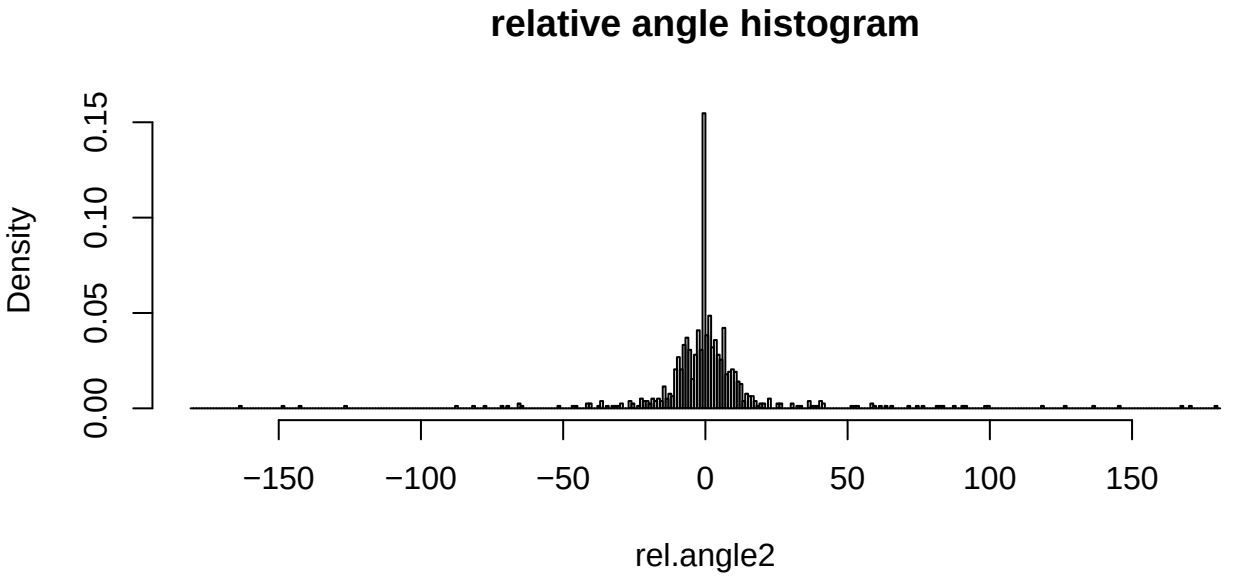

speed average per sec: 215_CS_BvS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

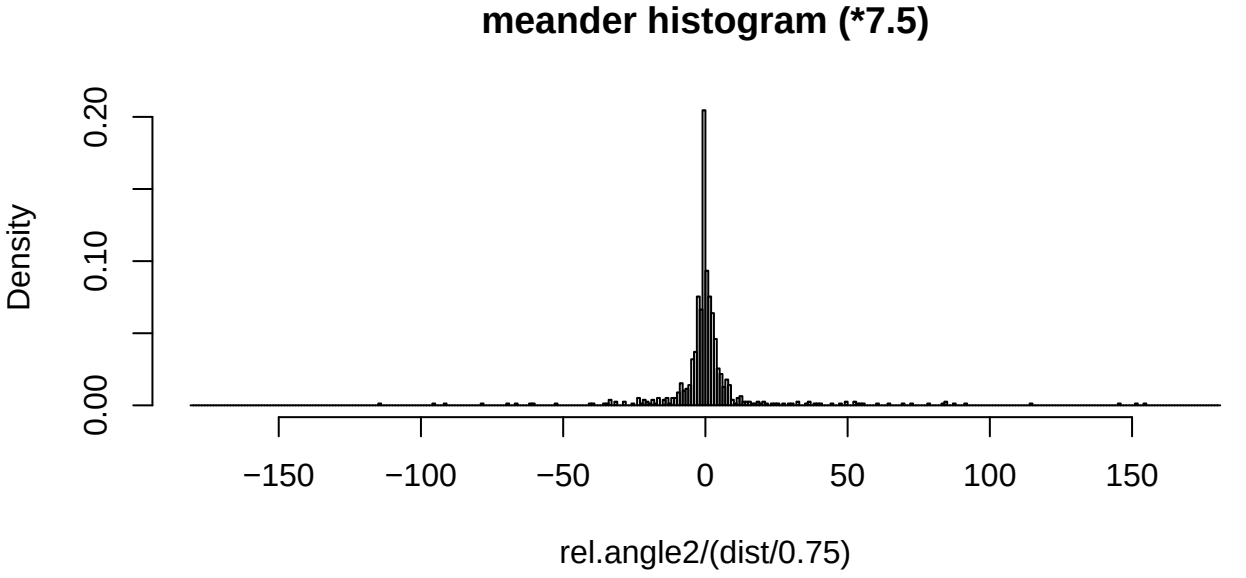

speed average per sec: 215_CS_BvS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

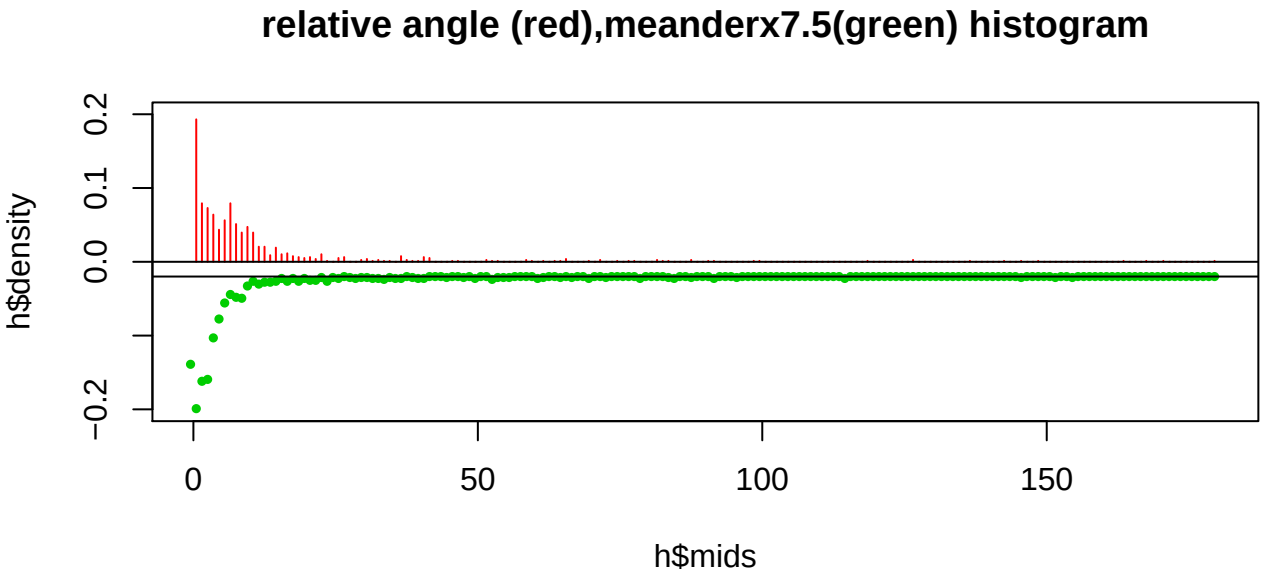

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

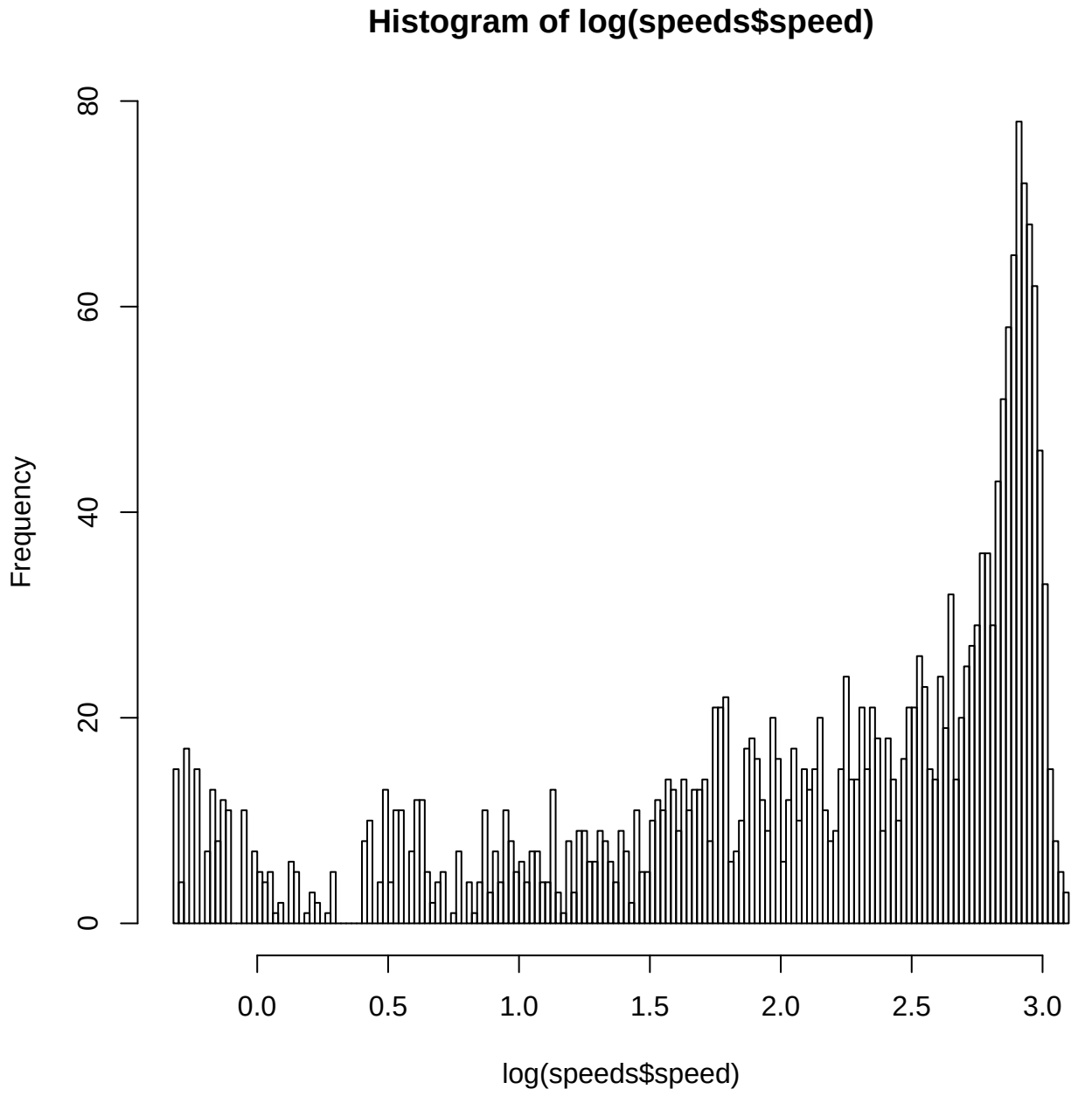

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

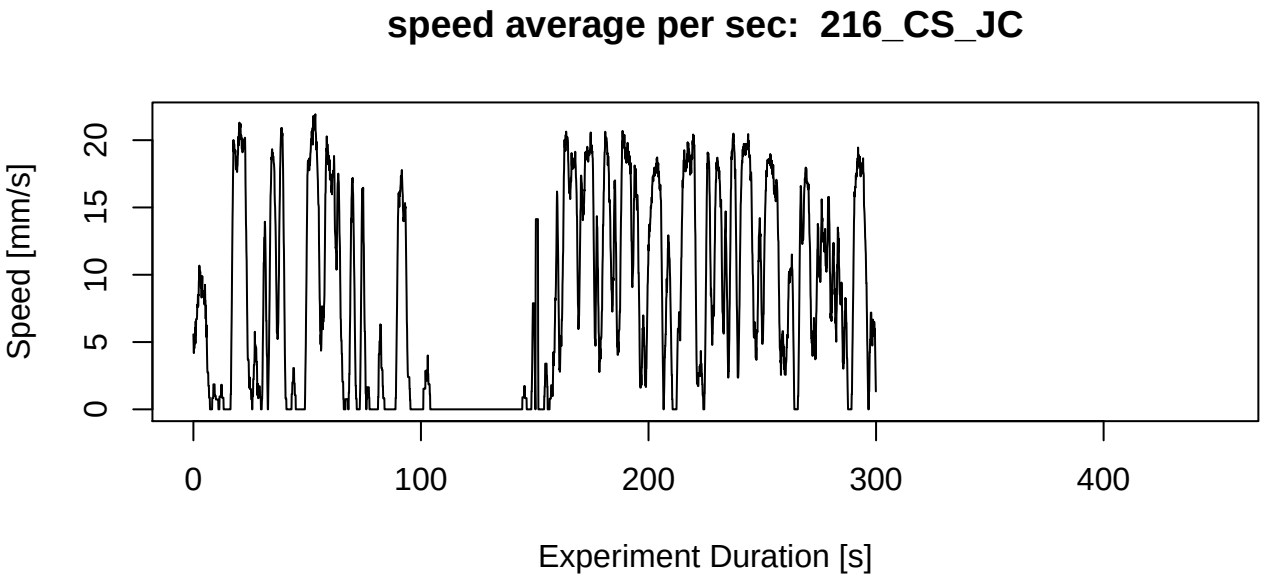

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

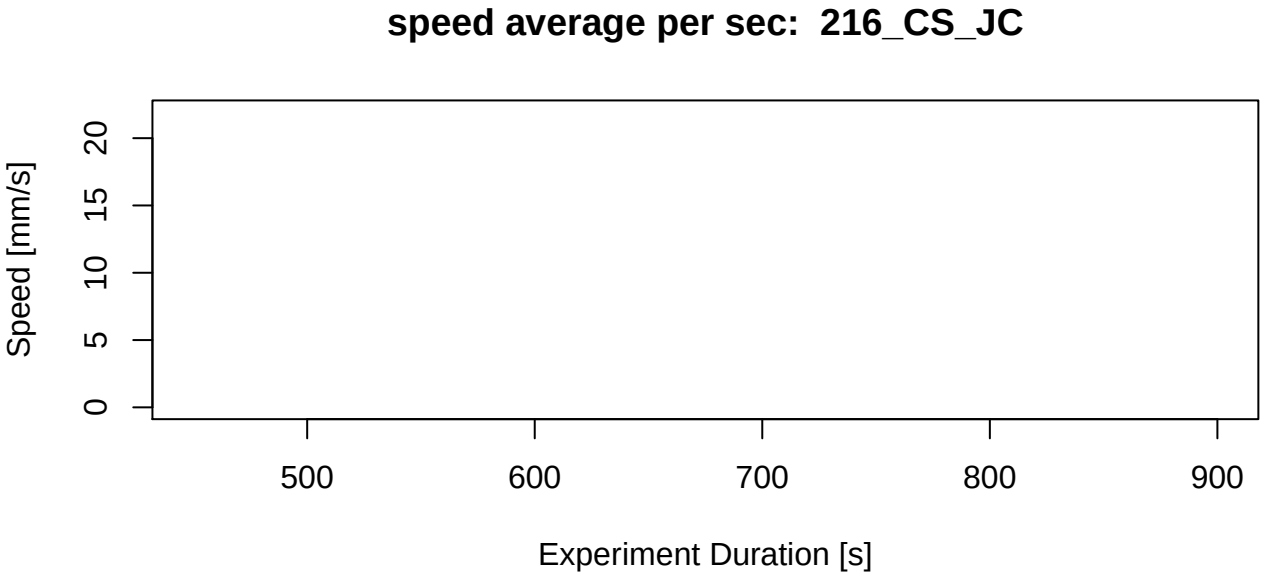

relative angle histogram
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2

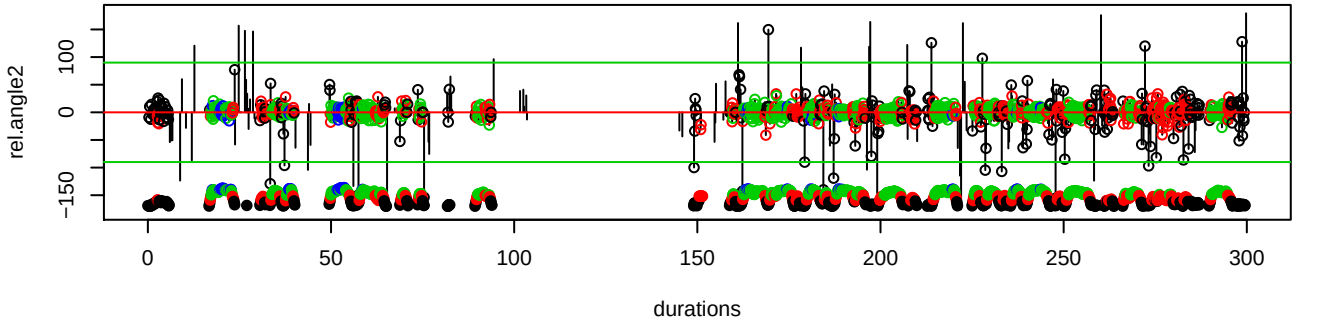

meander histogram (*7.5)
Density
0.00
0.10
0.20
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

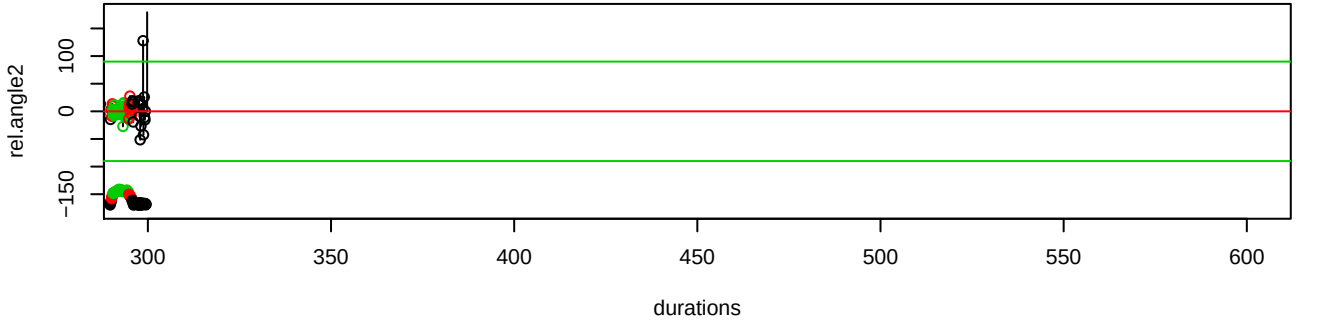

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

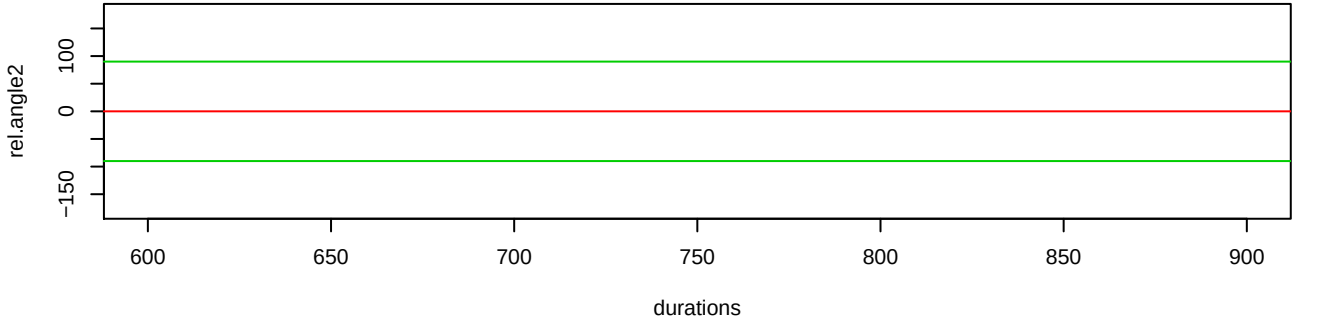

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

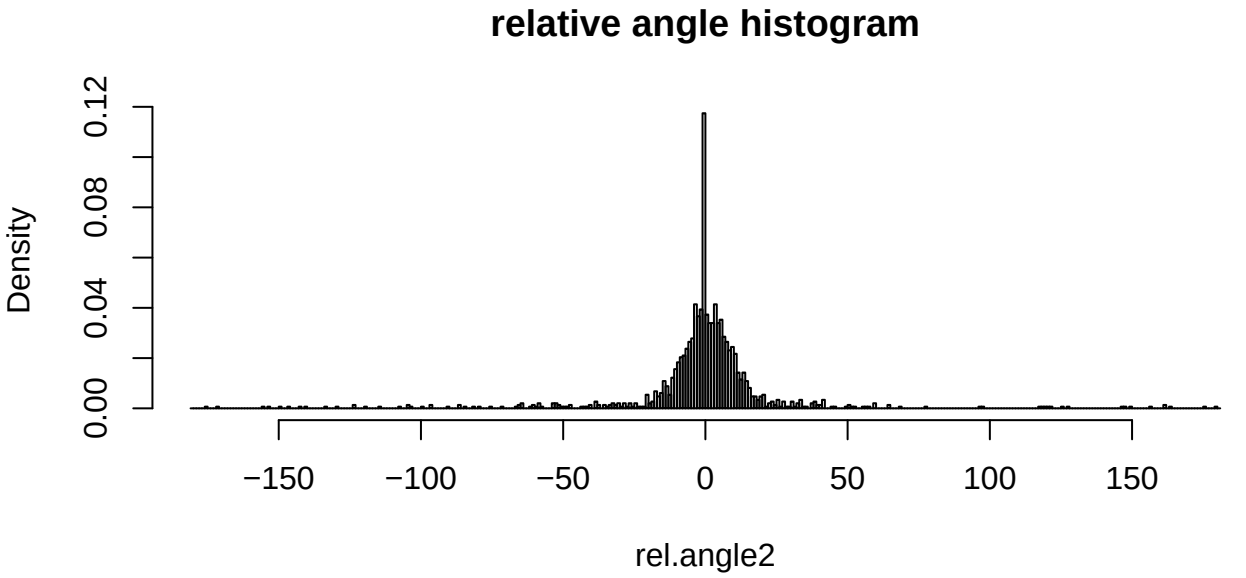

speed average per sec: 216_CS_JC
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

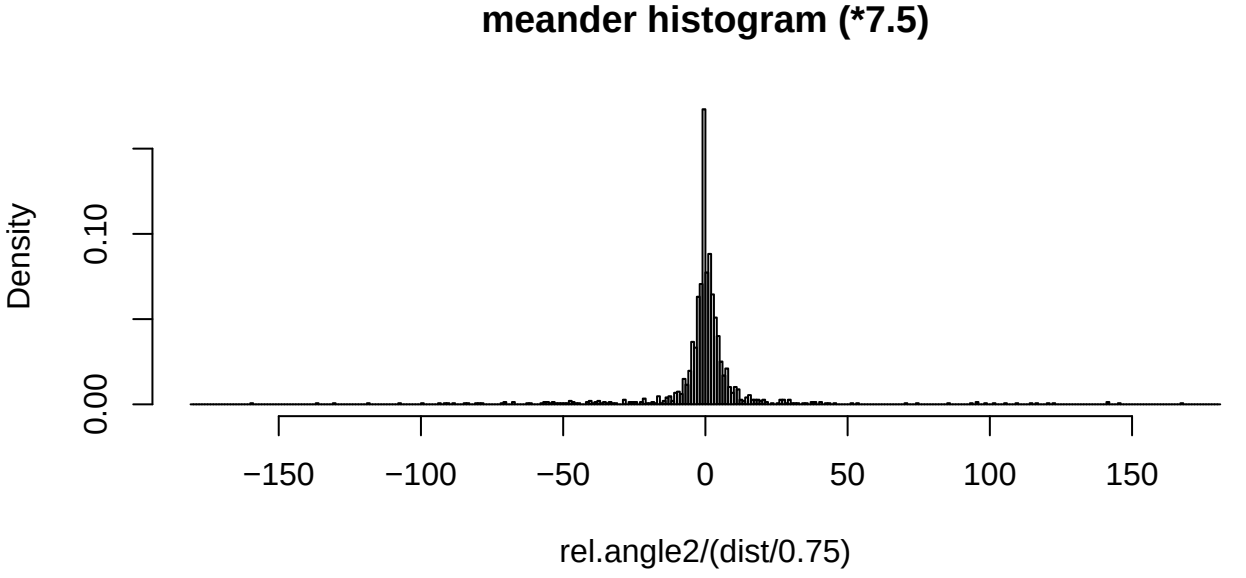

speed average per sec: 216_CS_JC
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

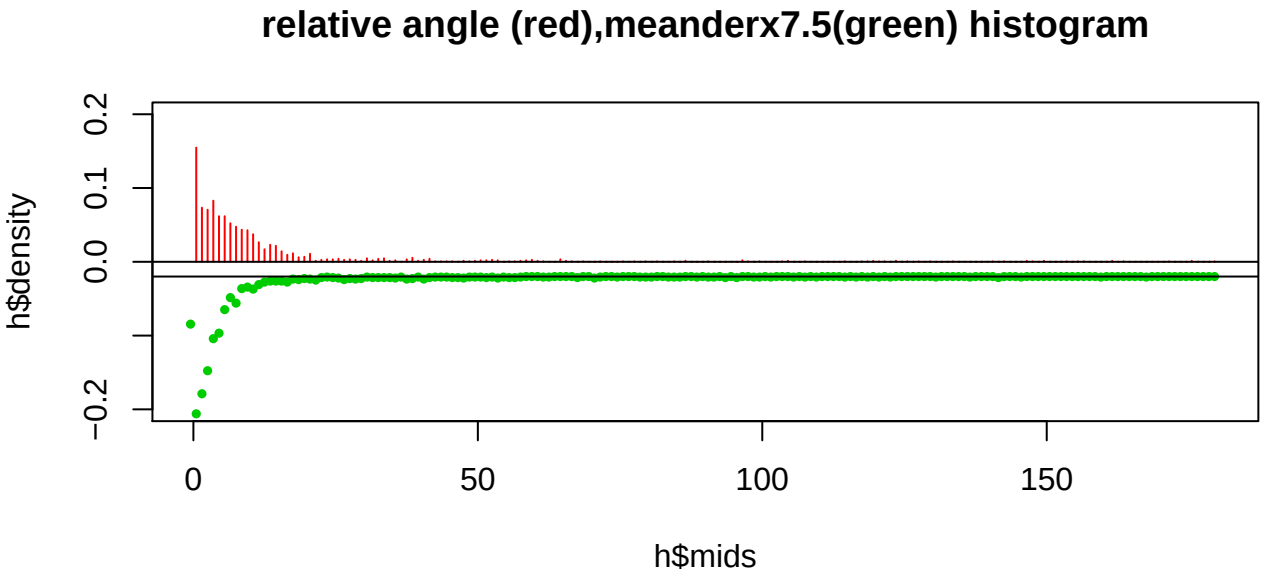

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

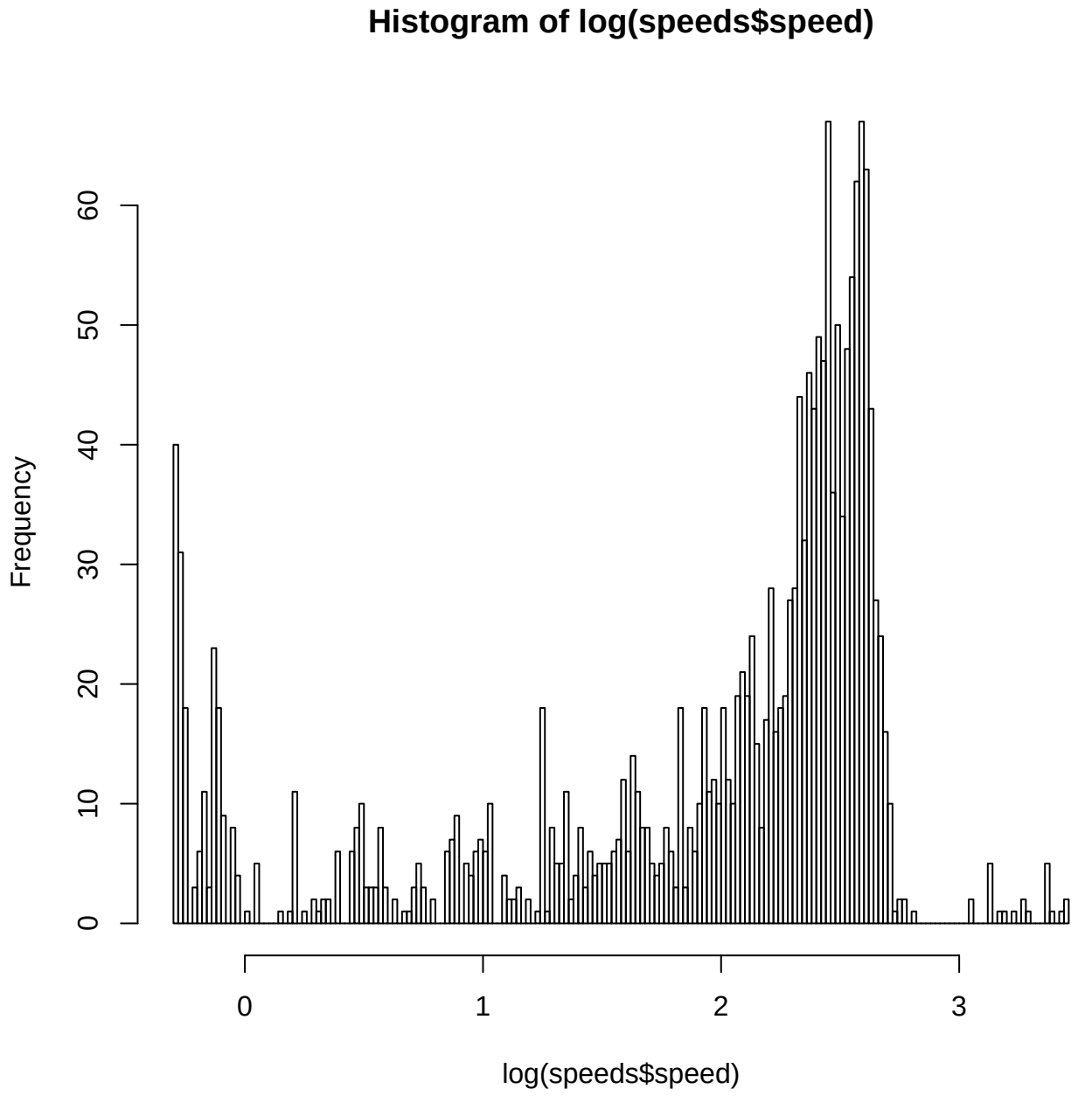

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

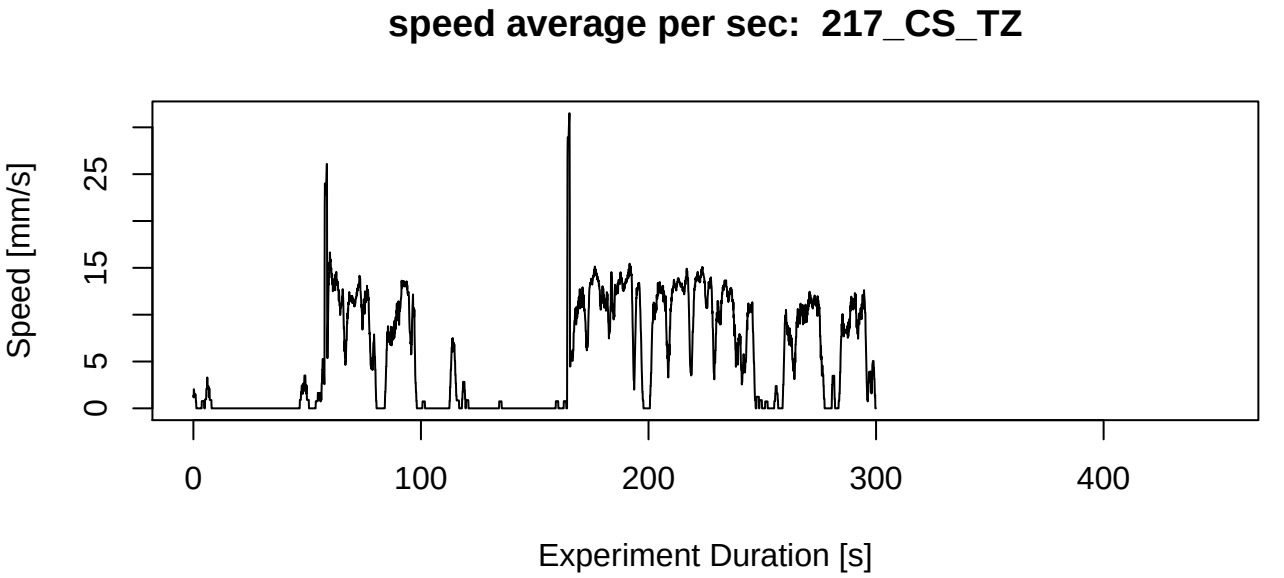

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

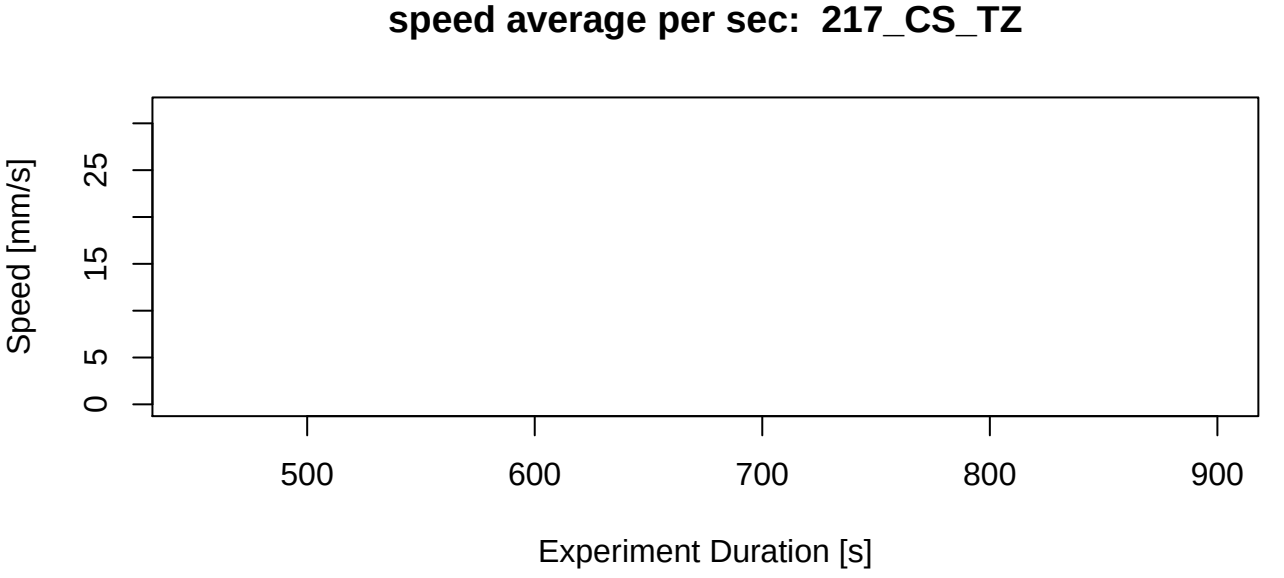

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

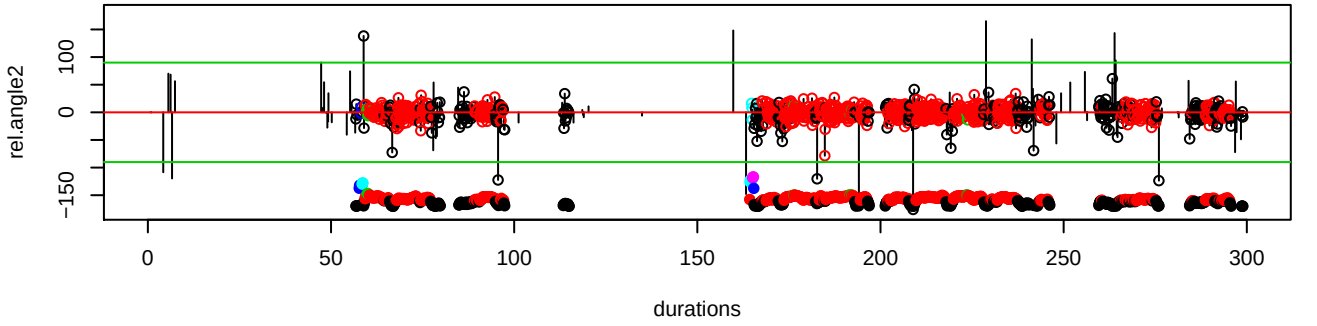

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

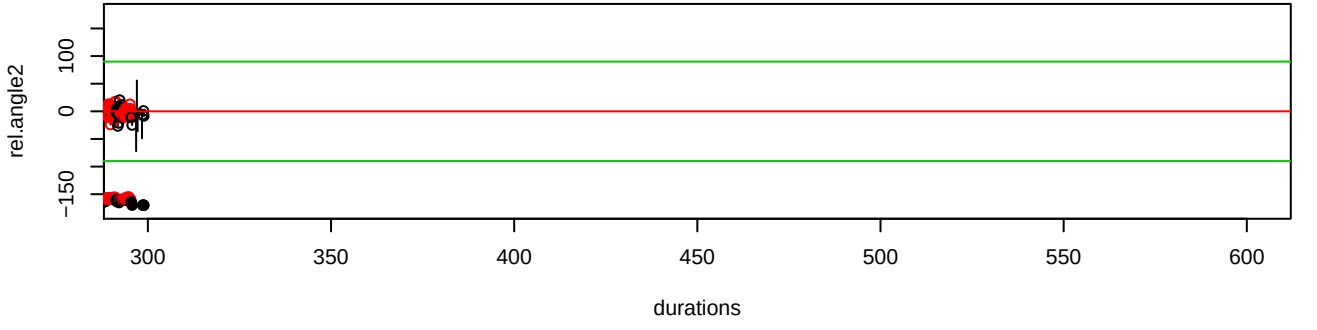

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

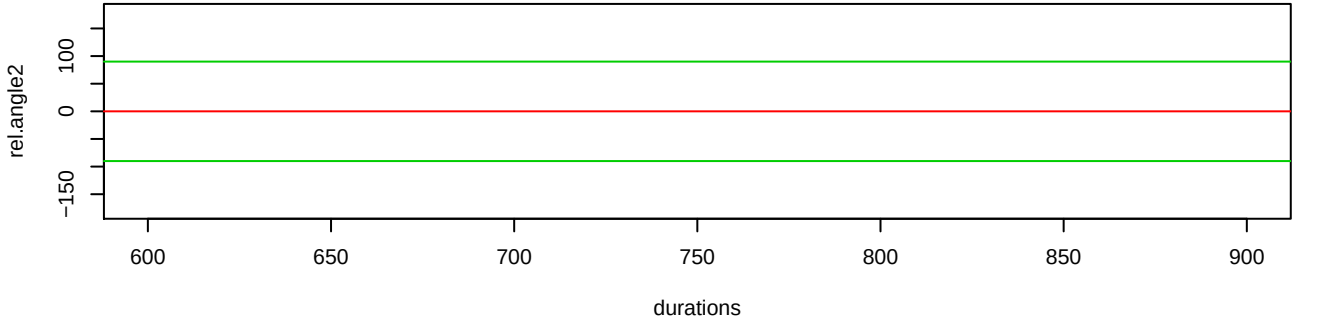

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
0
1
2
3
log(speeds$speed)

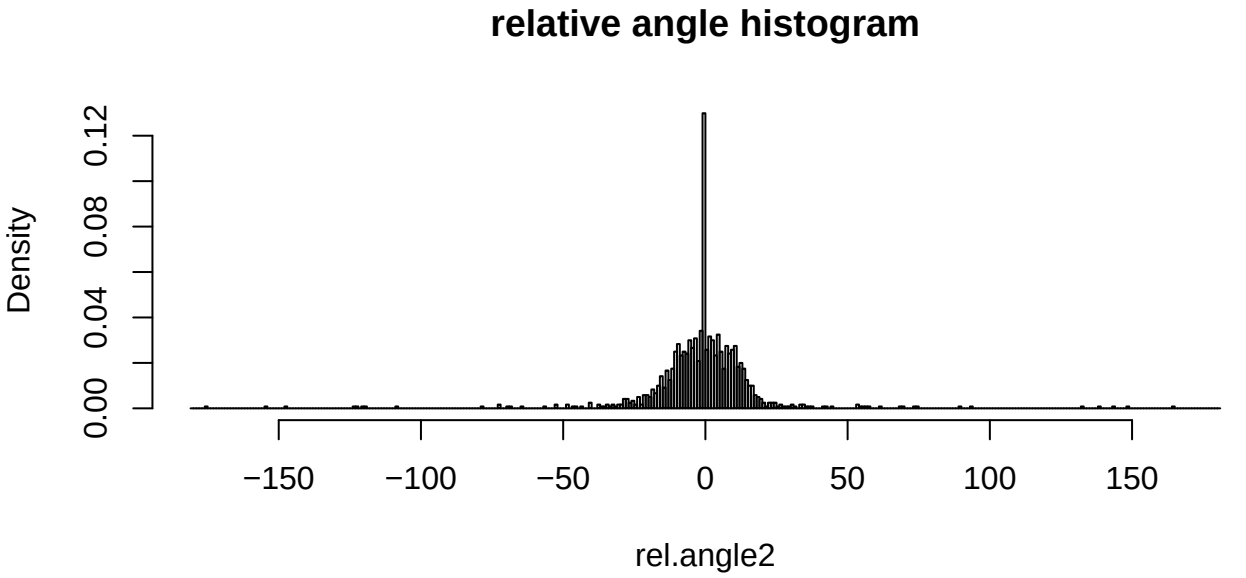

speed average per sec: 217_CS_TZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

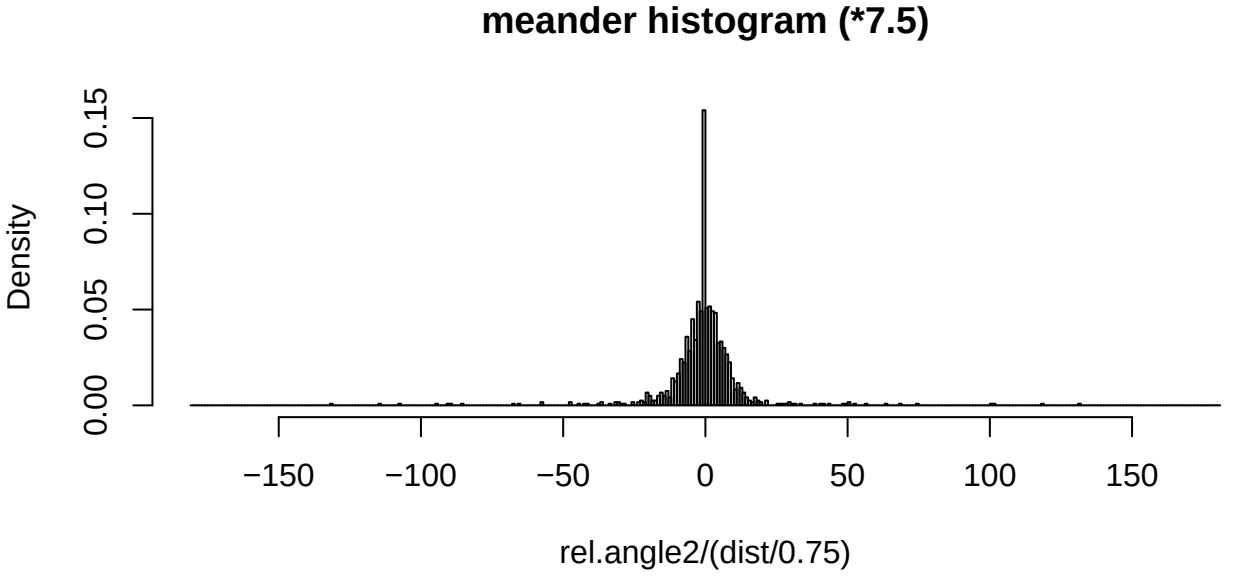

speed average per sec: 217_CS_TZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

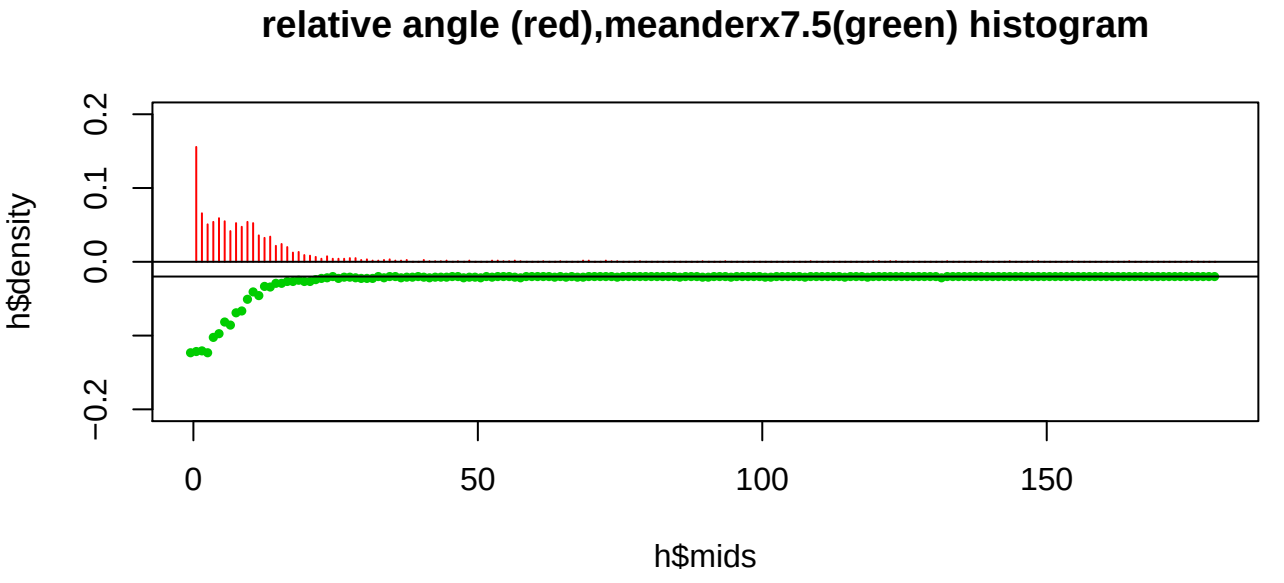

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

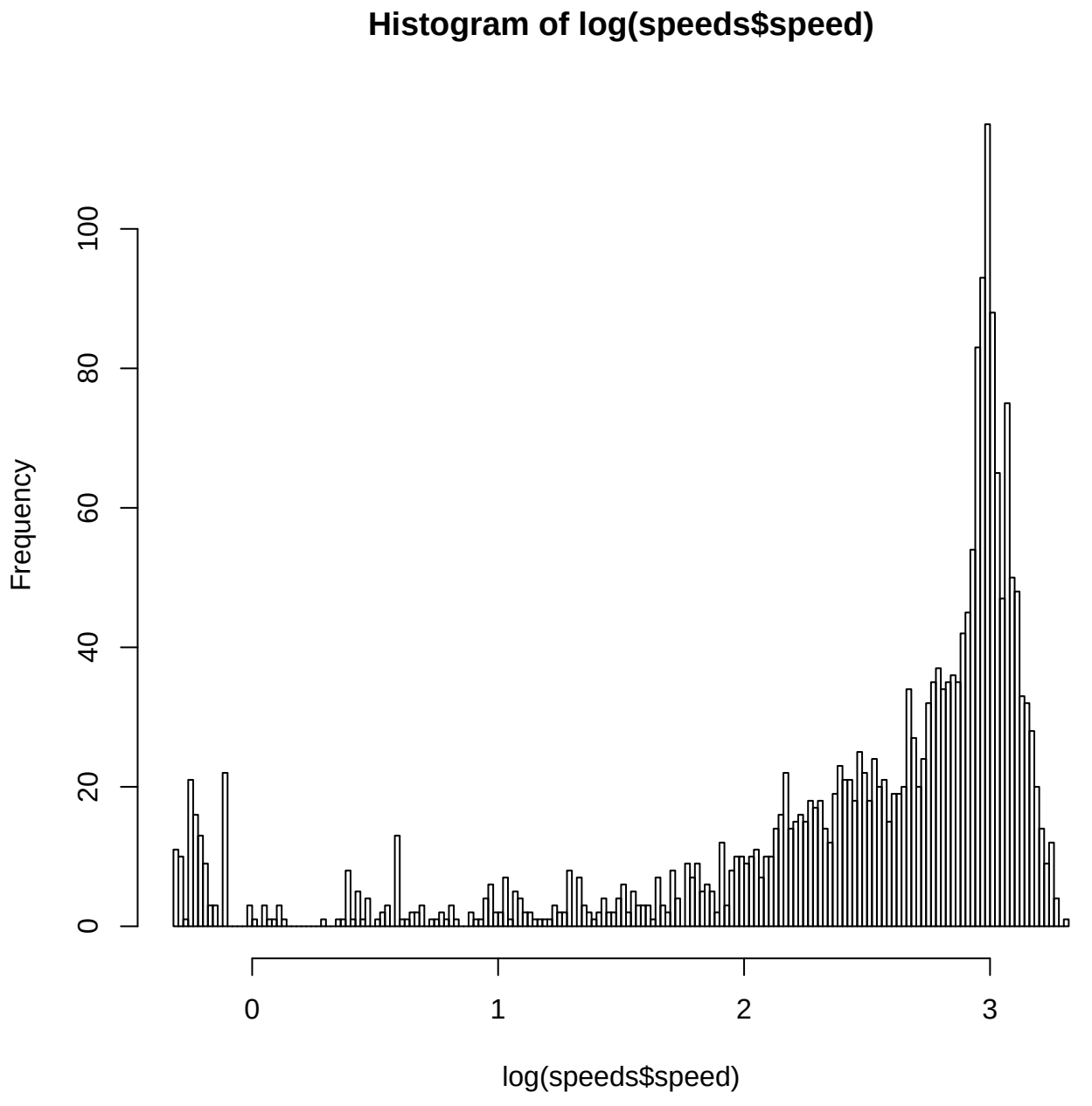

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

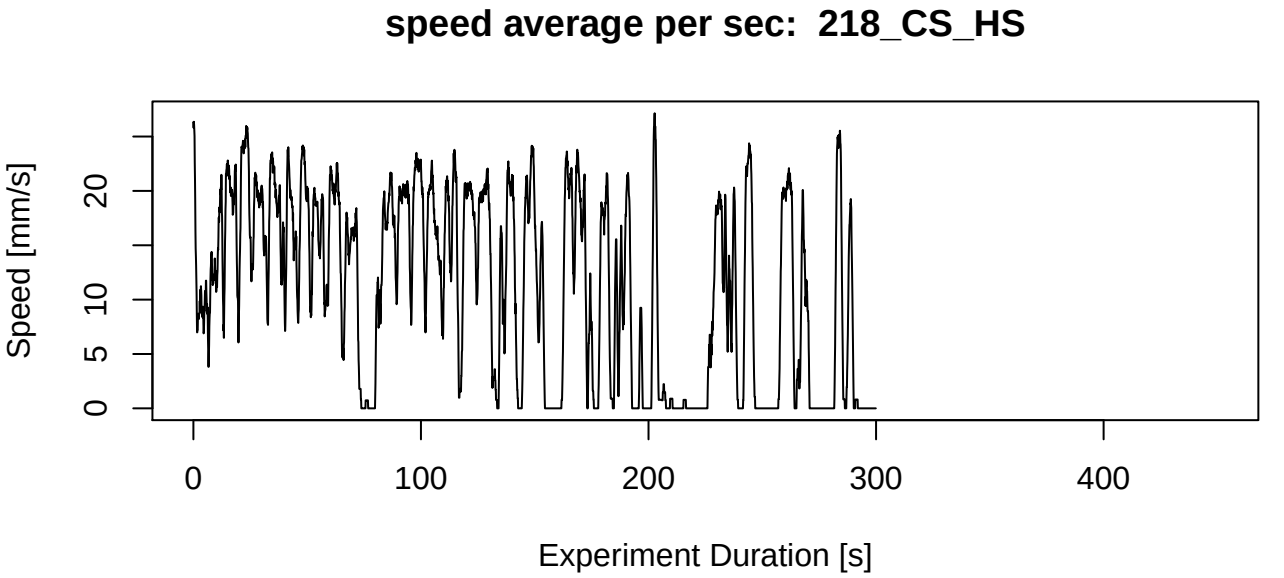

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

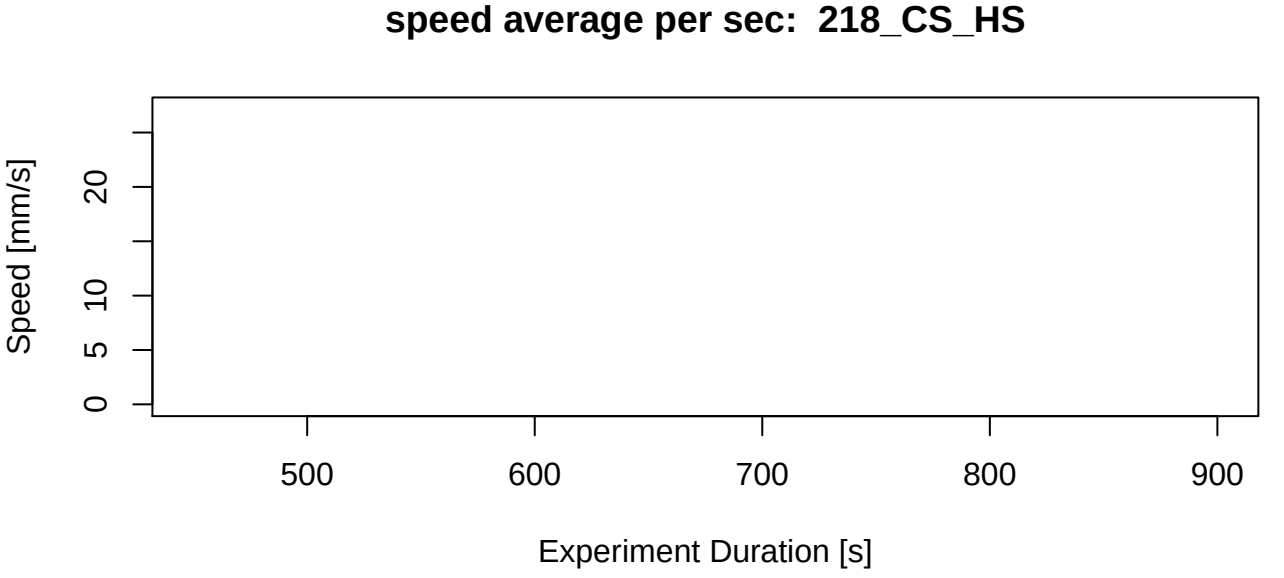

relative angle histogram
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2

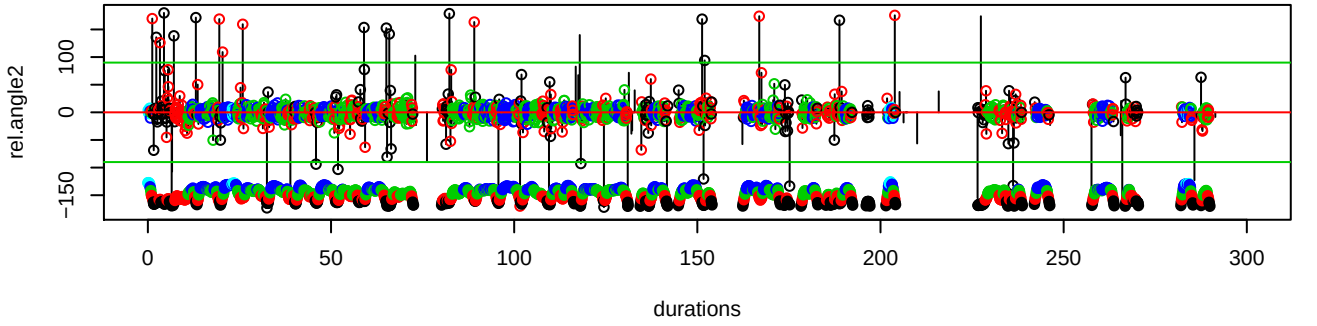

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

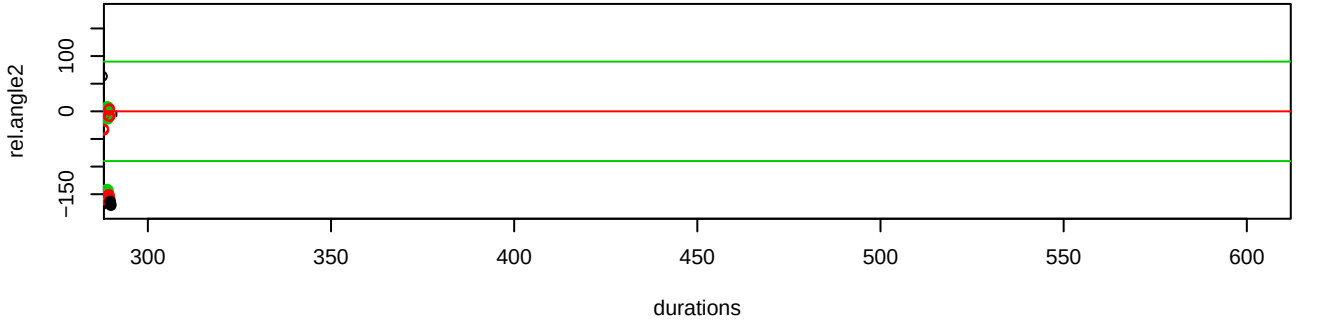

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

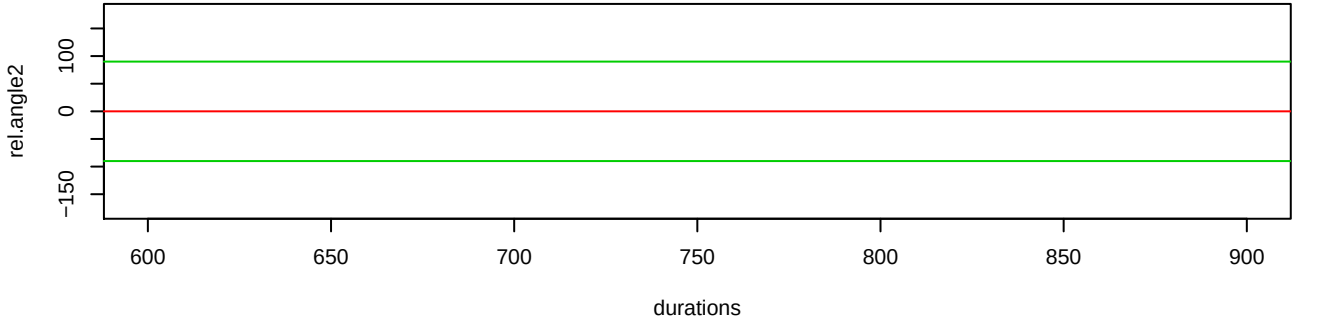

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
0
1
2
3
log(speeds$speed)

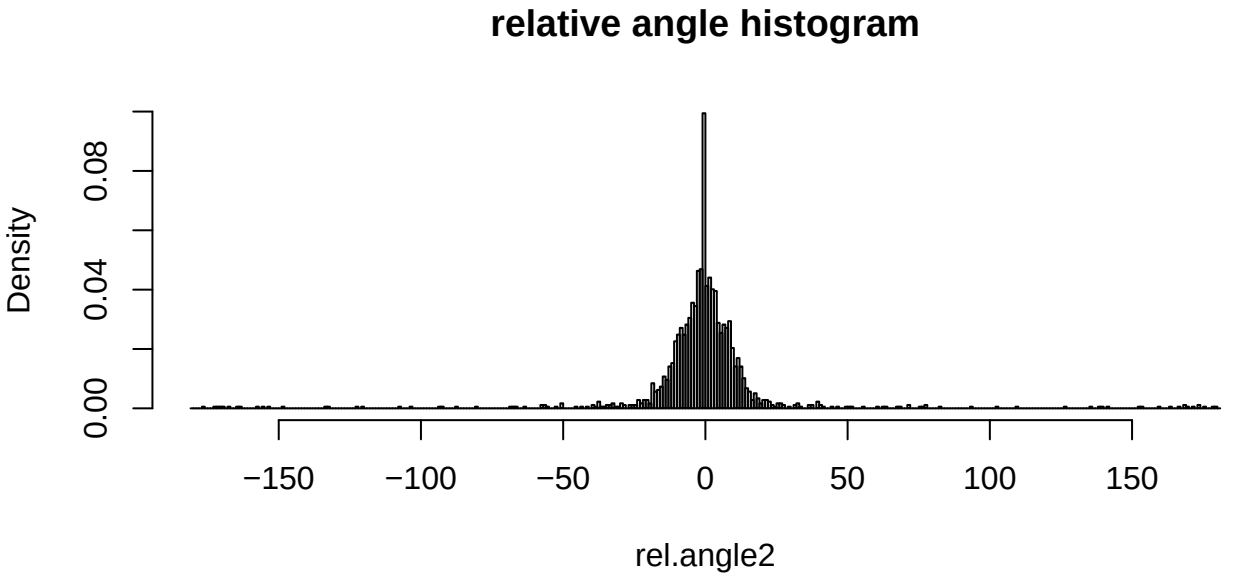

speed average per sec: 218_CS_HS
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

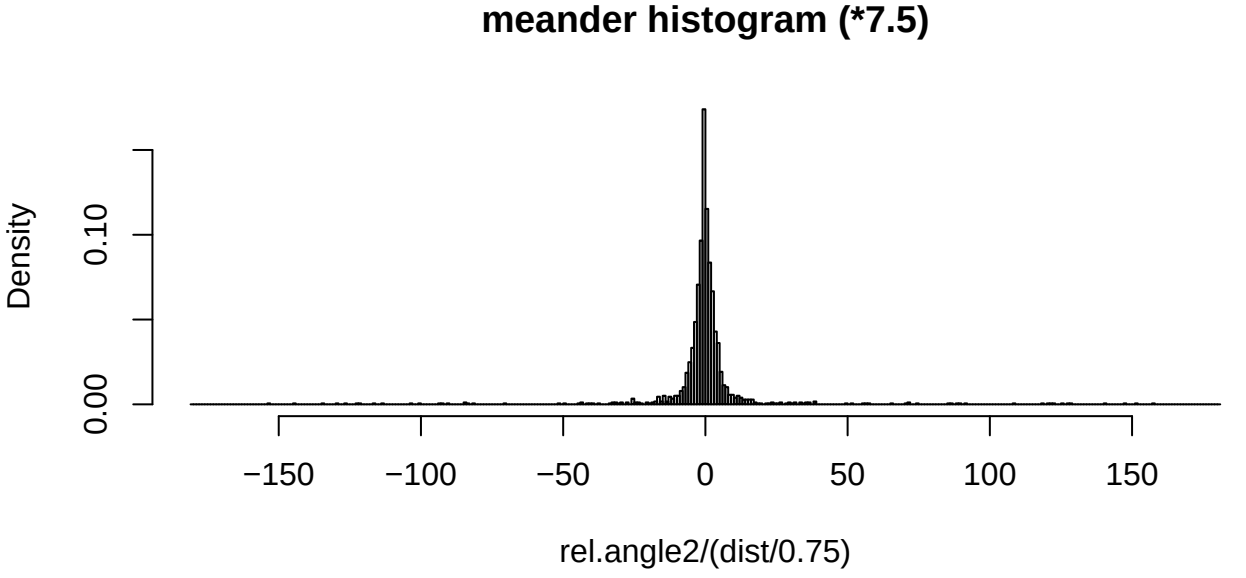

speed average per sec: 218_CS_HS
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

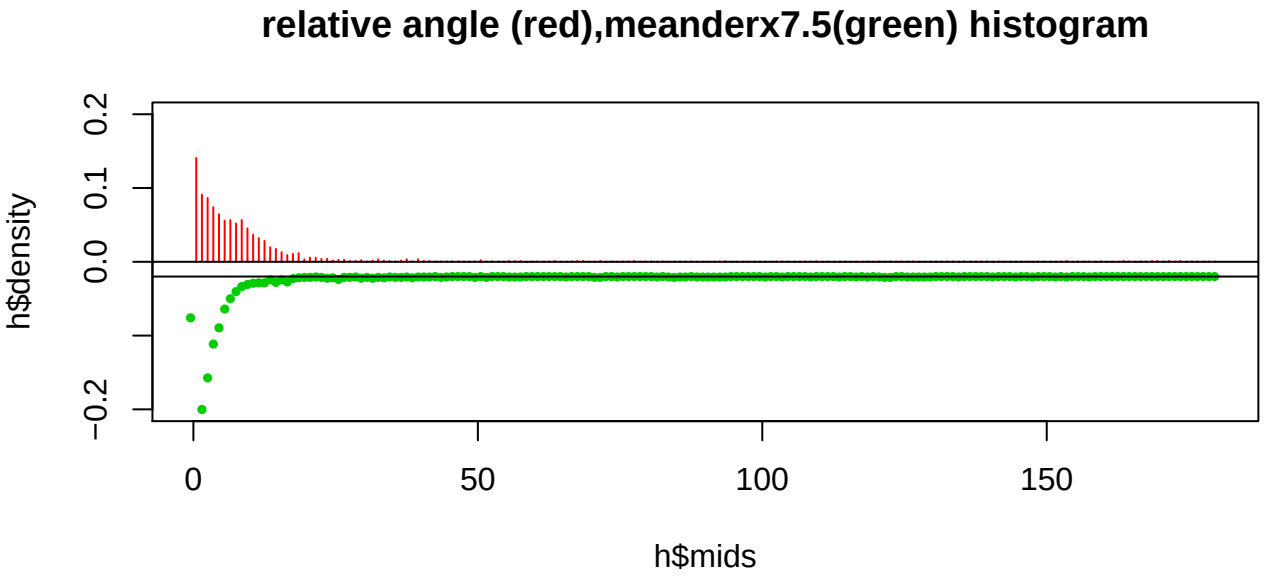

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

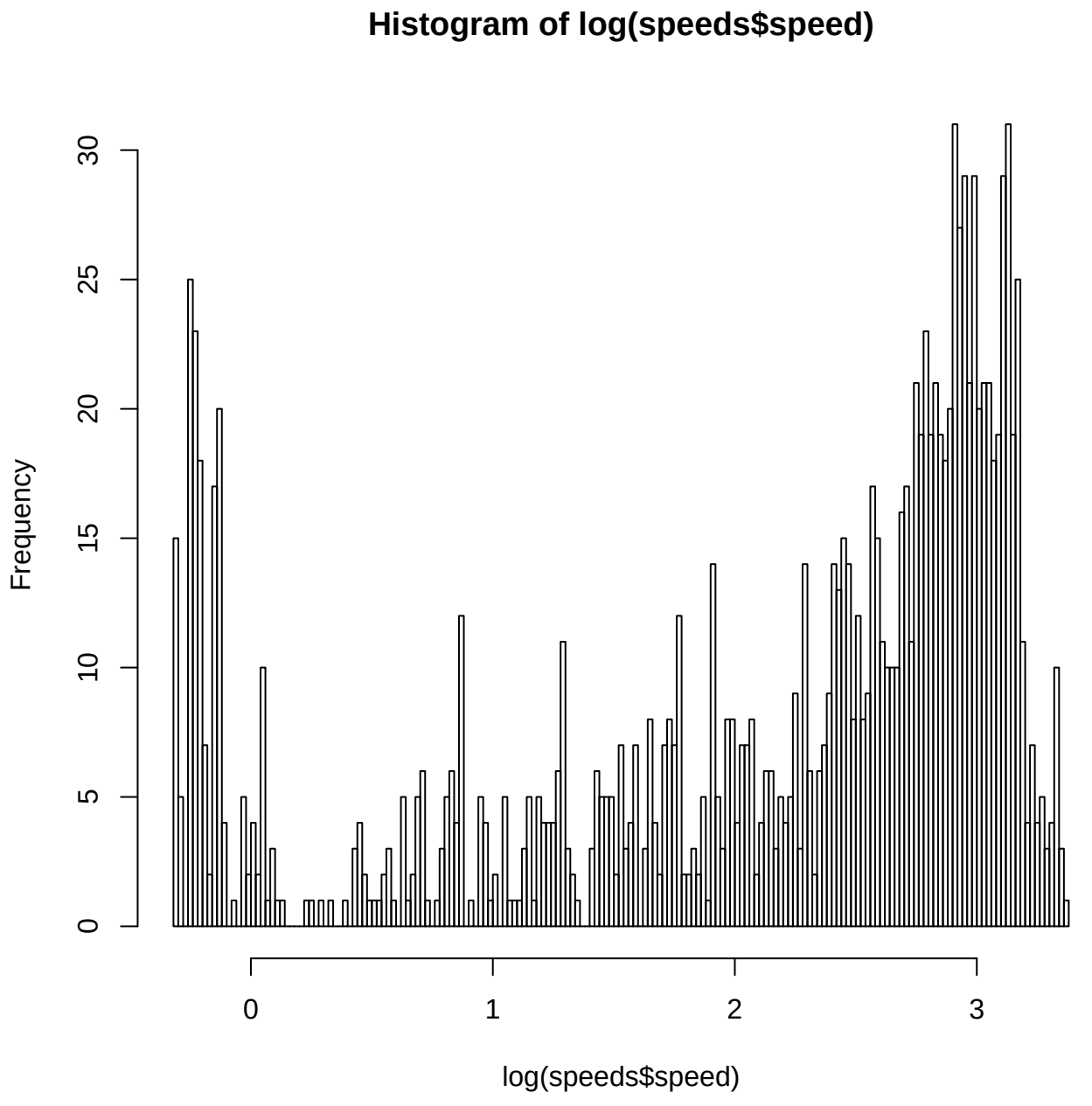

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

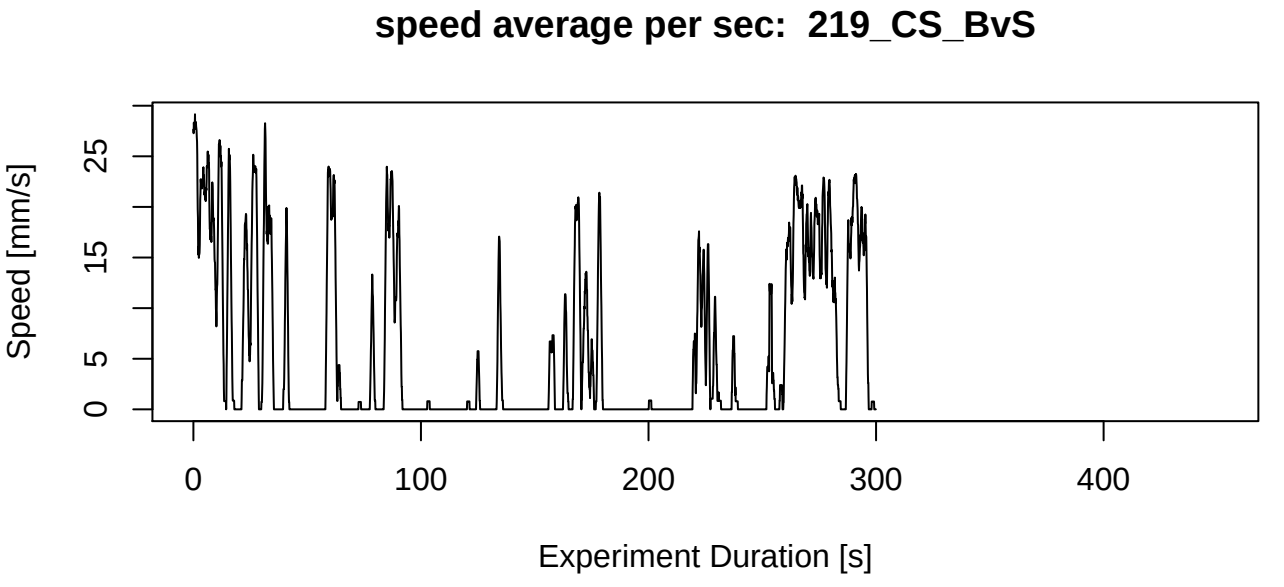

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

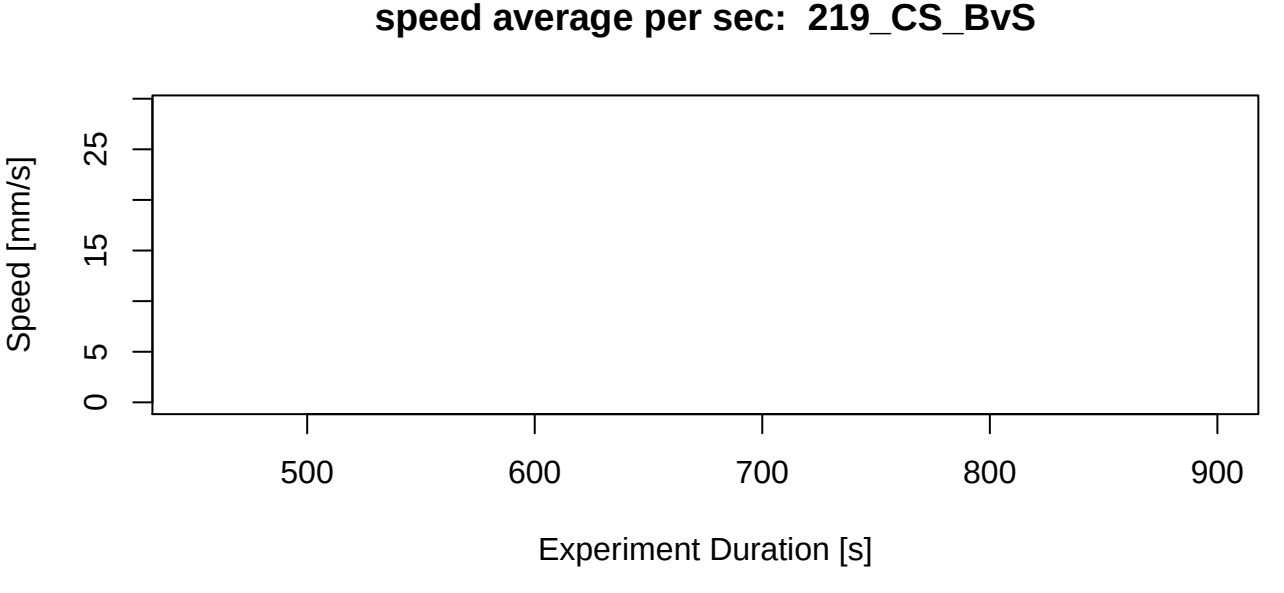

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

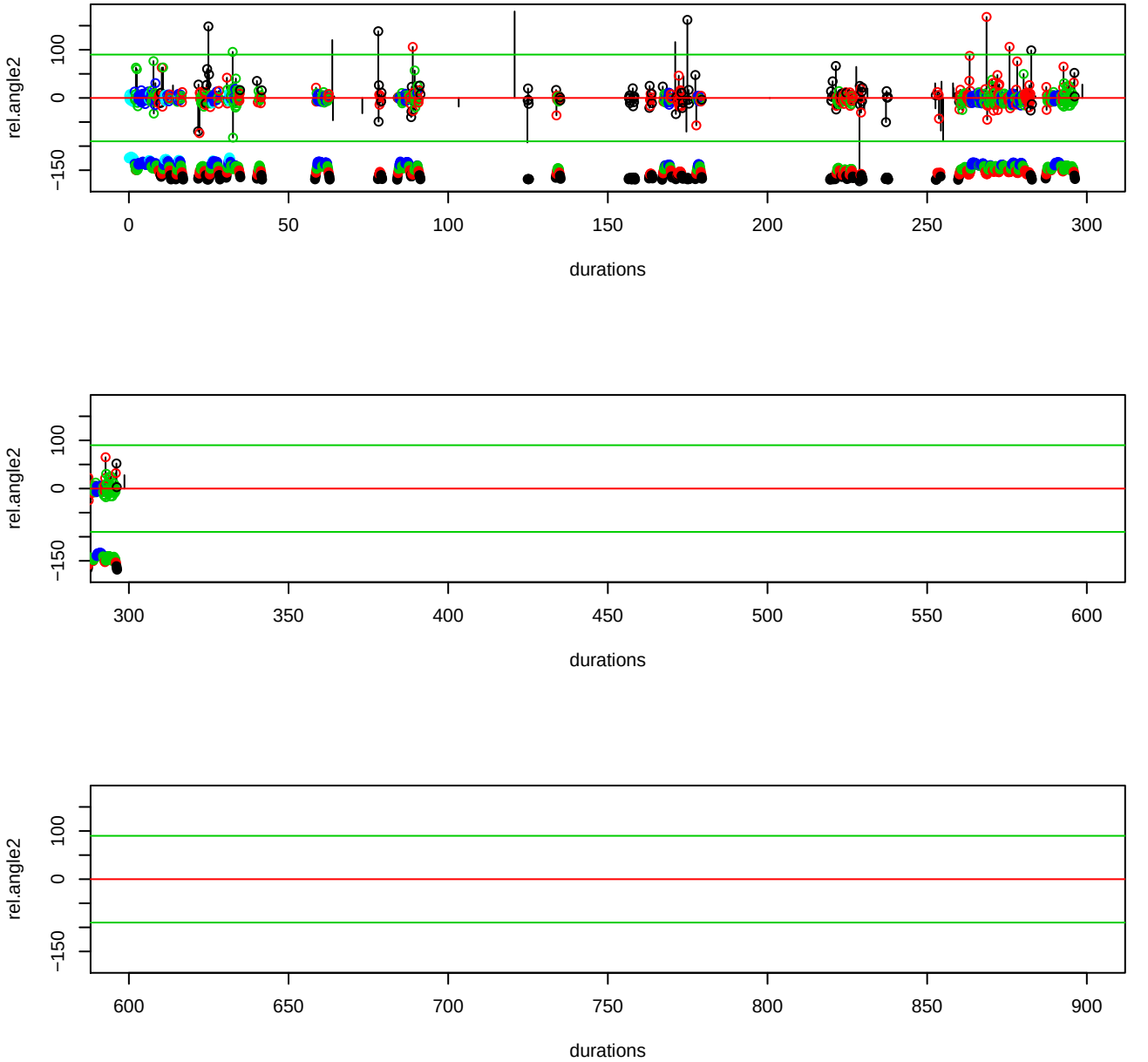

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

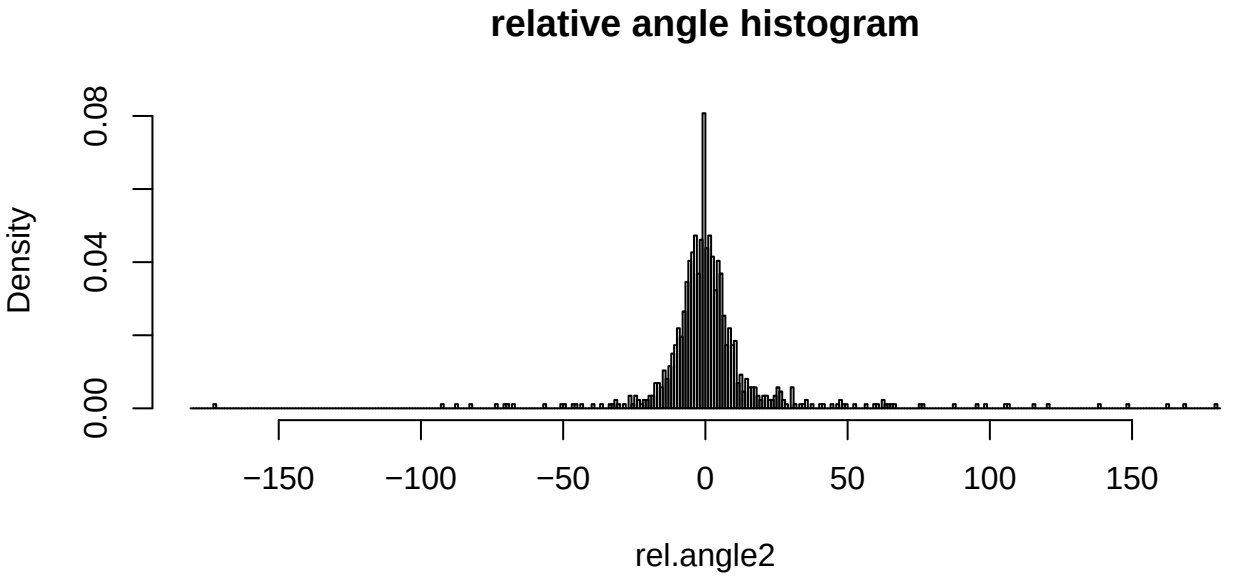

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

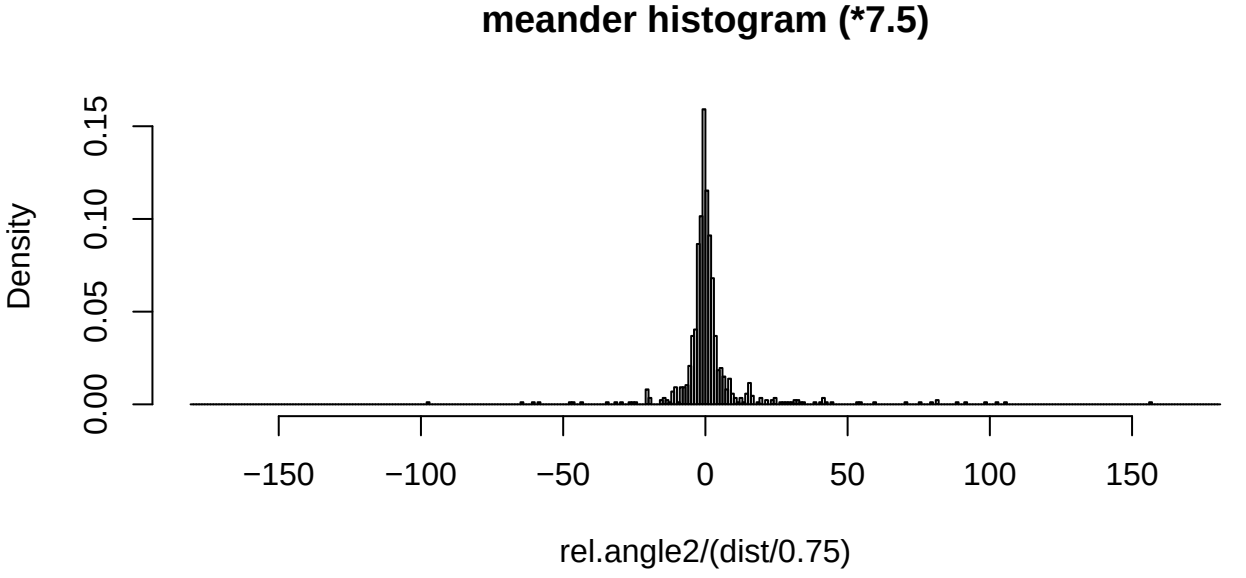

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0
1
2
3
log(speeds$speed)

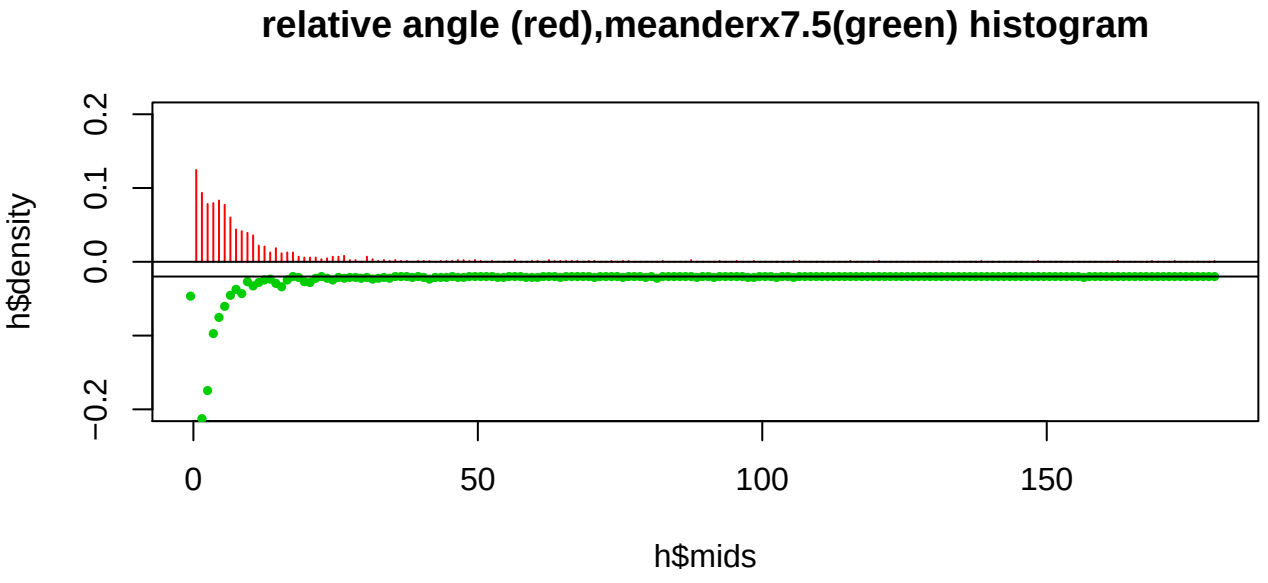

speed average per sec: 219_CS_BvS
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

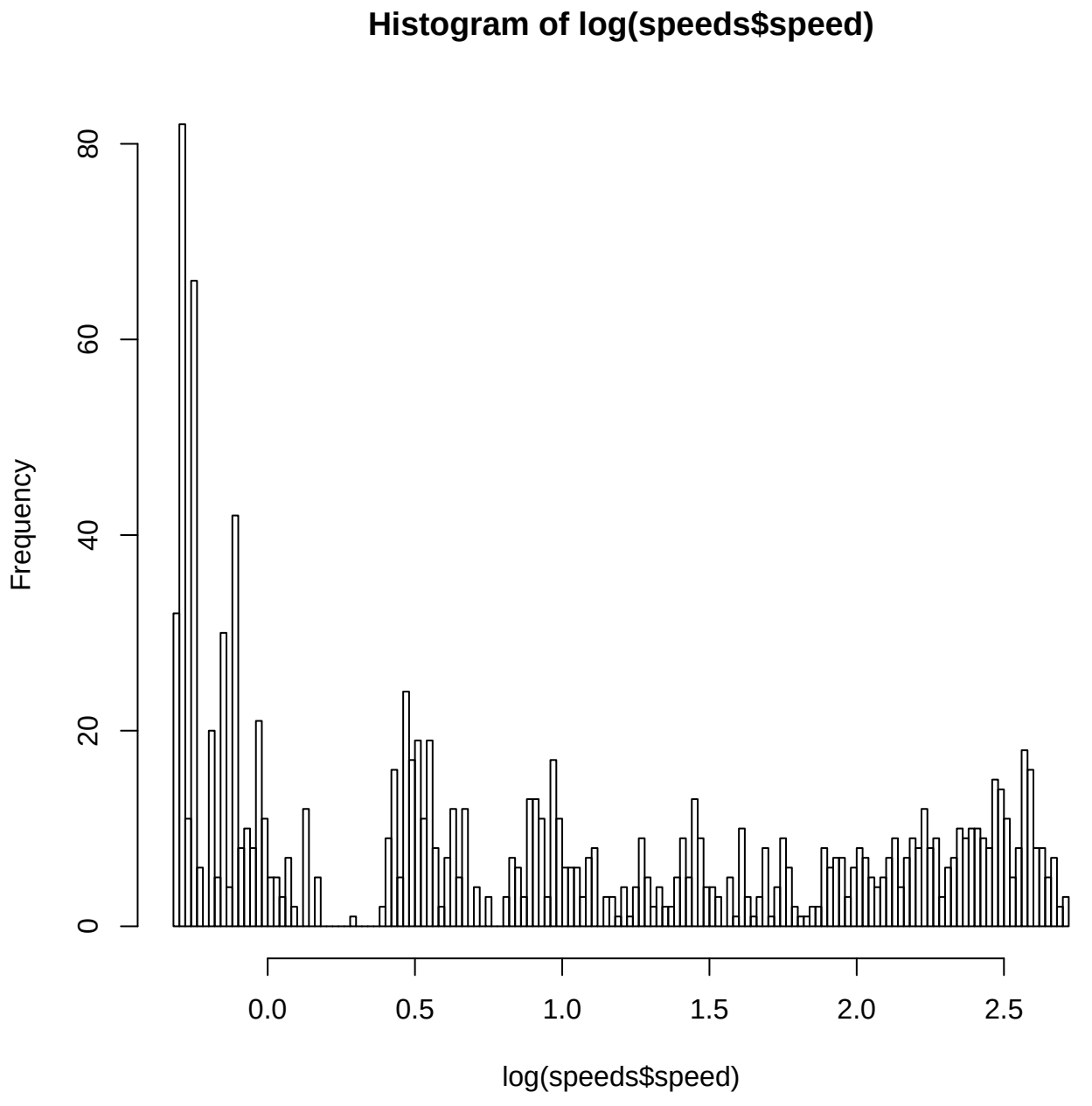

speed average per sec: 219_CS_BvS
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

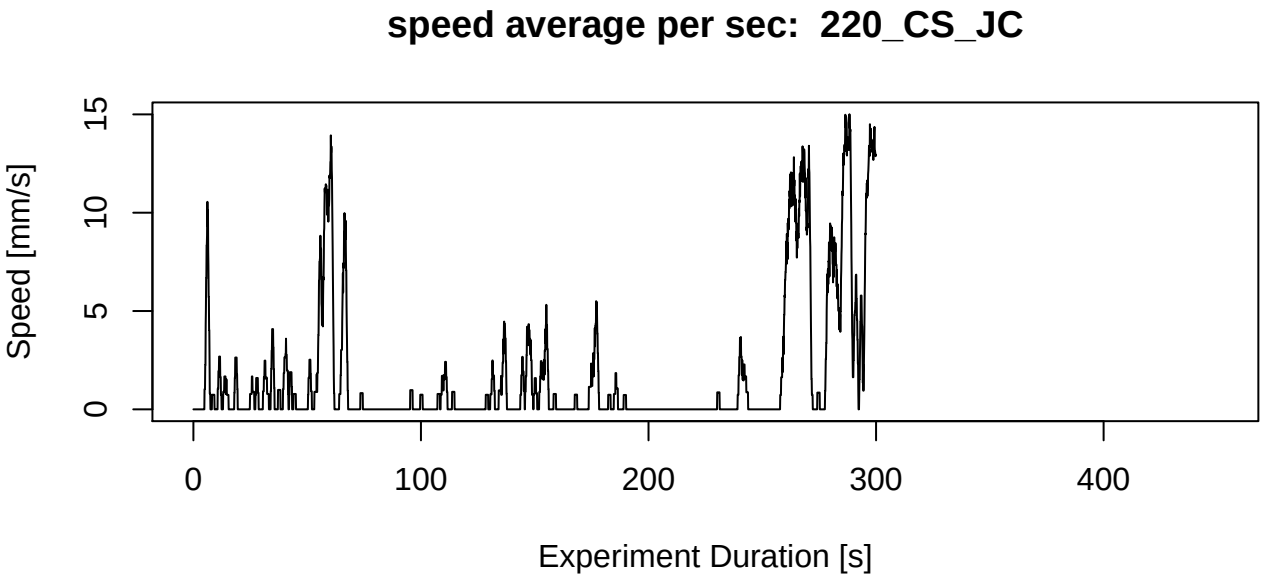

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations
rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations
rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

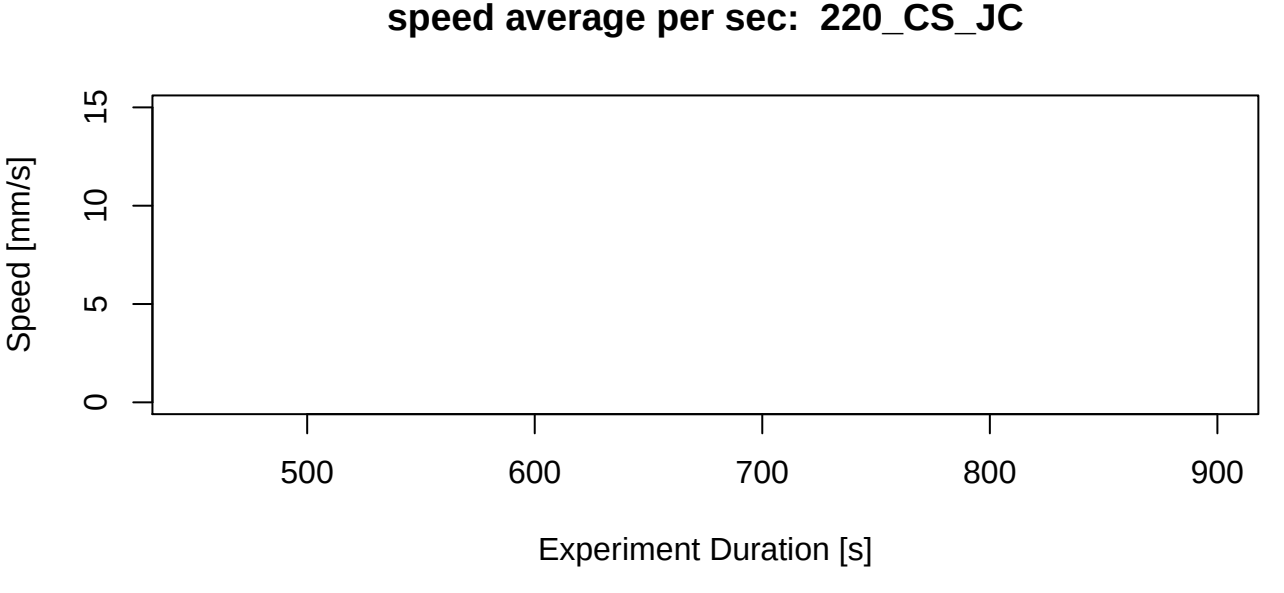

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

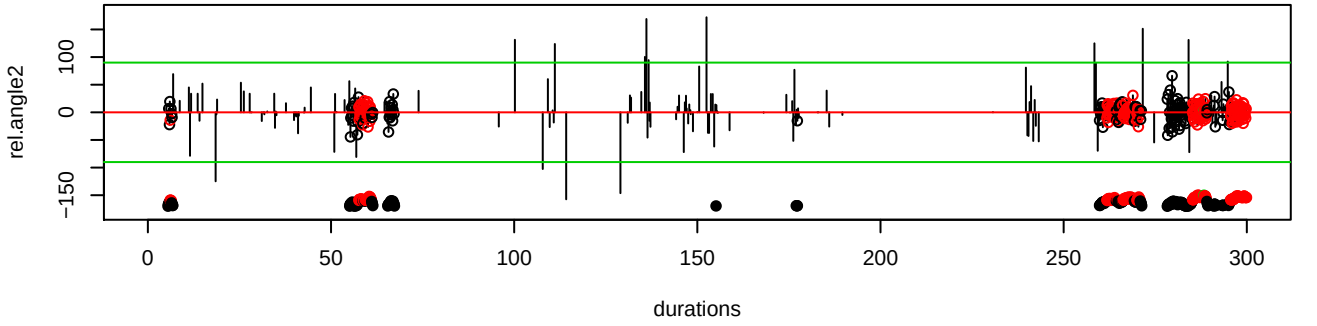

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

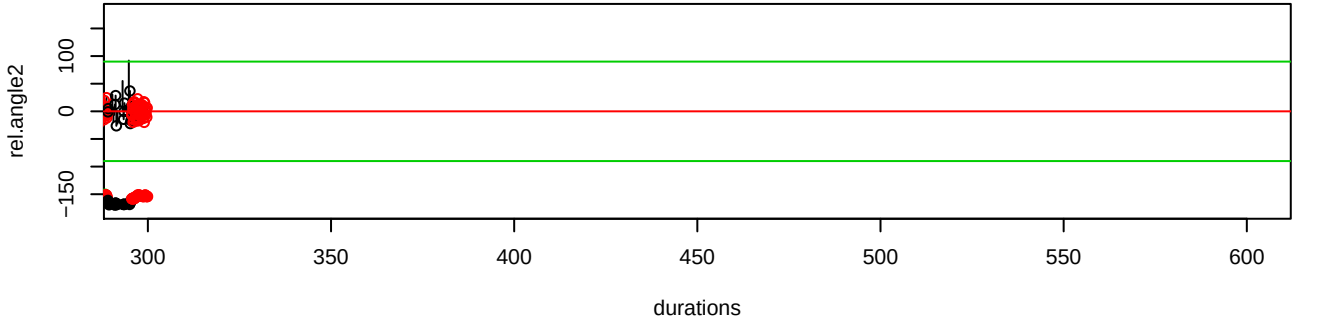

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

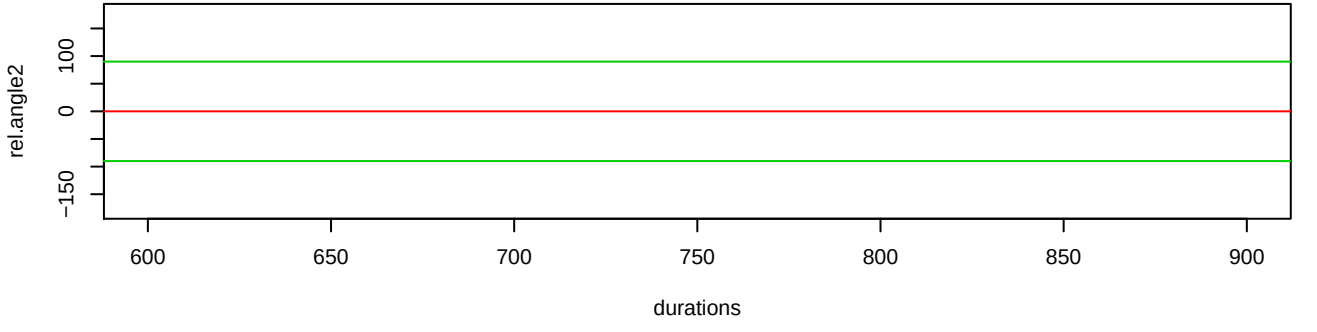

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

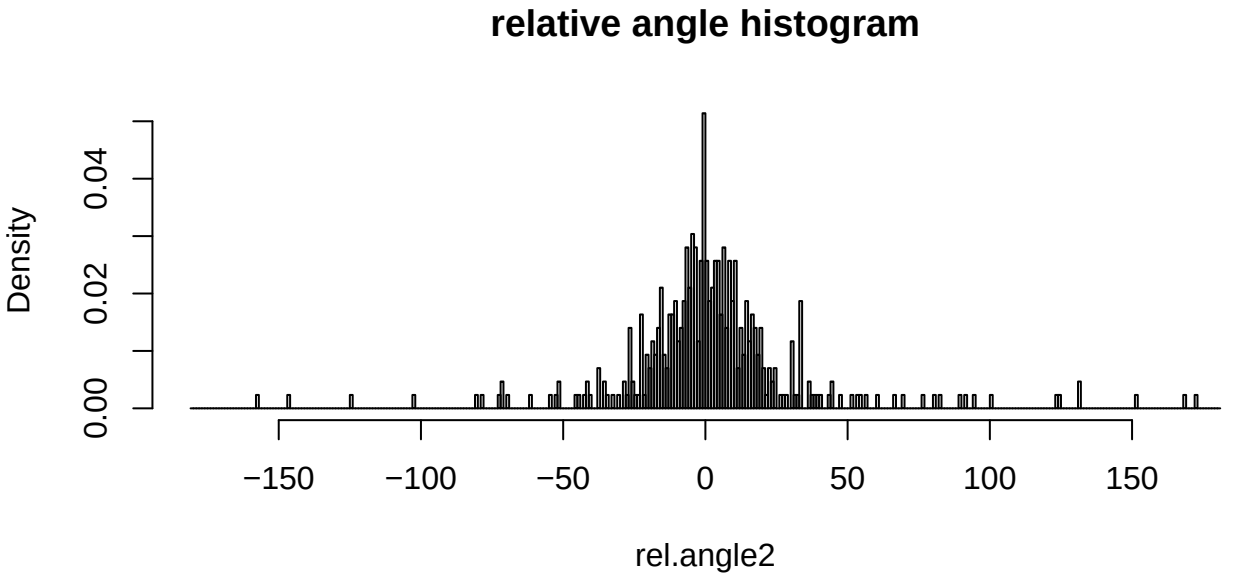

speed average per sec: 220_CS_JC
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

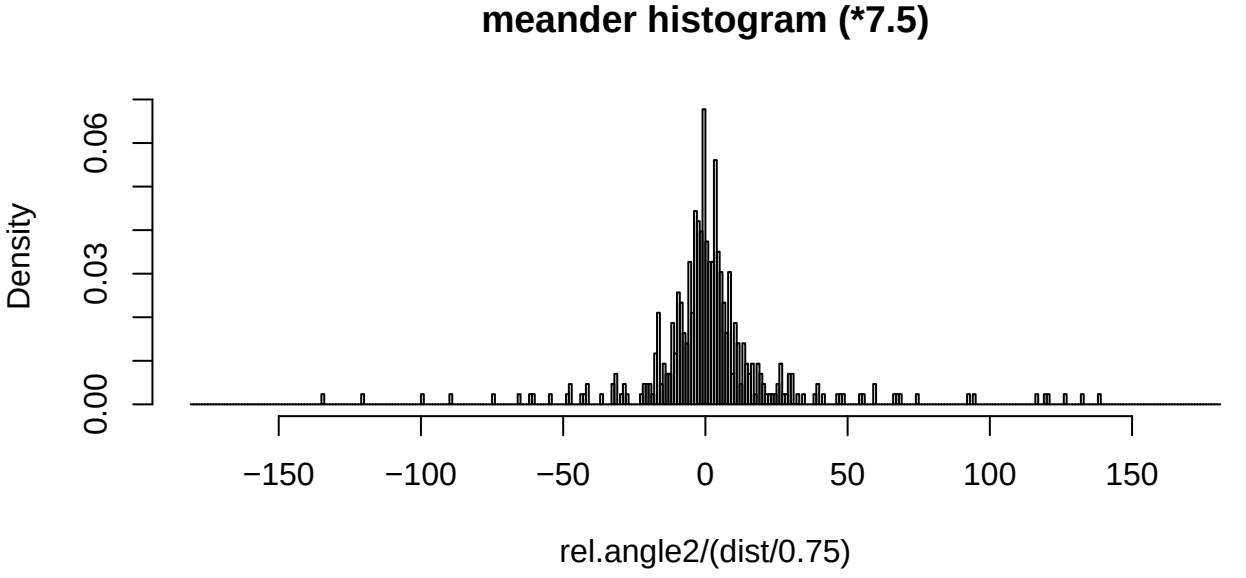

speed average per sec: 220_CS_JC
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

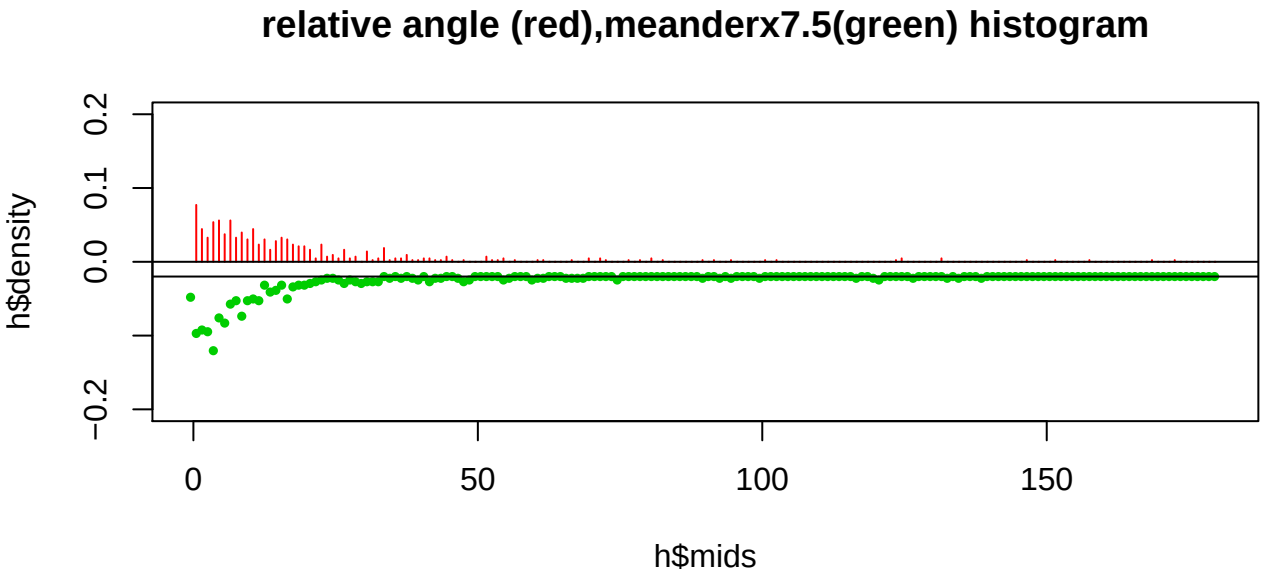

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

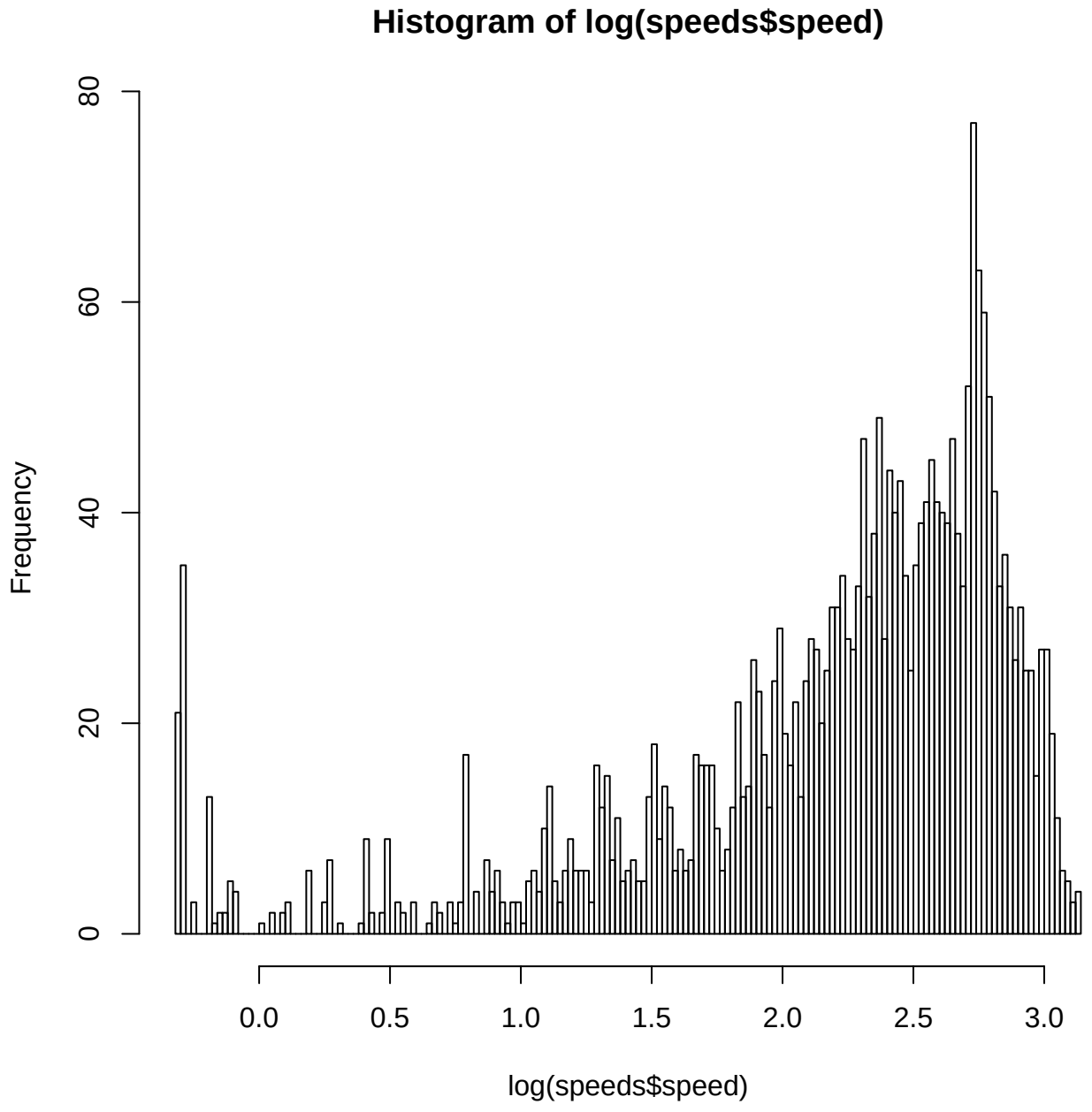

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

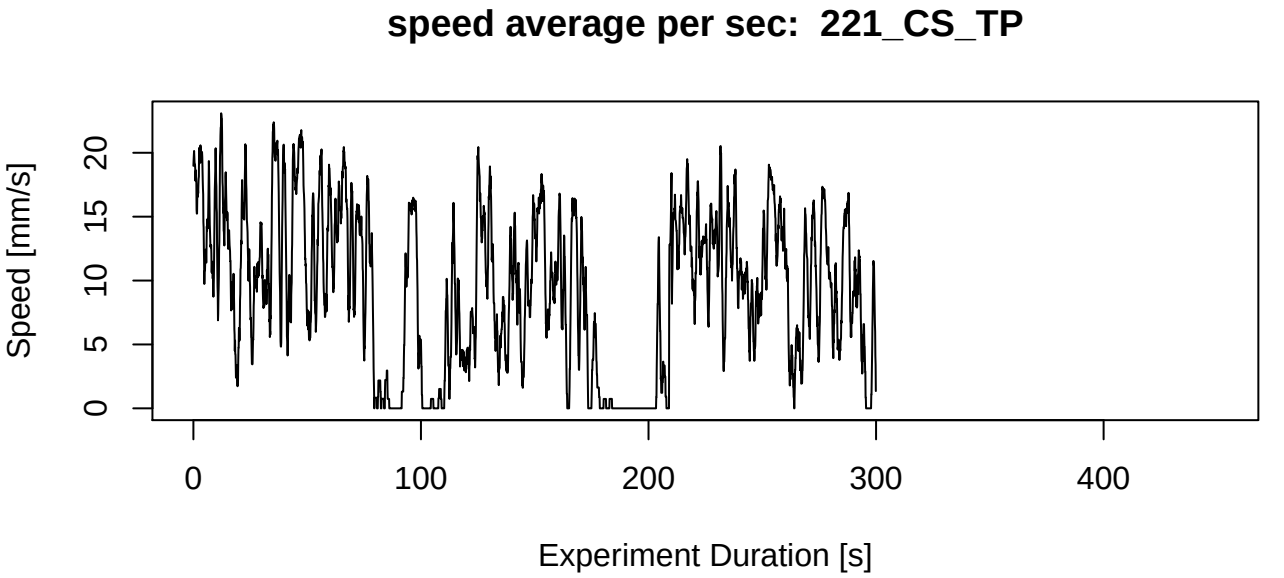

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

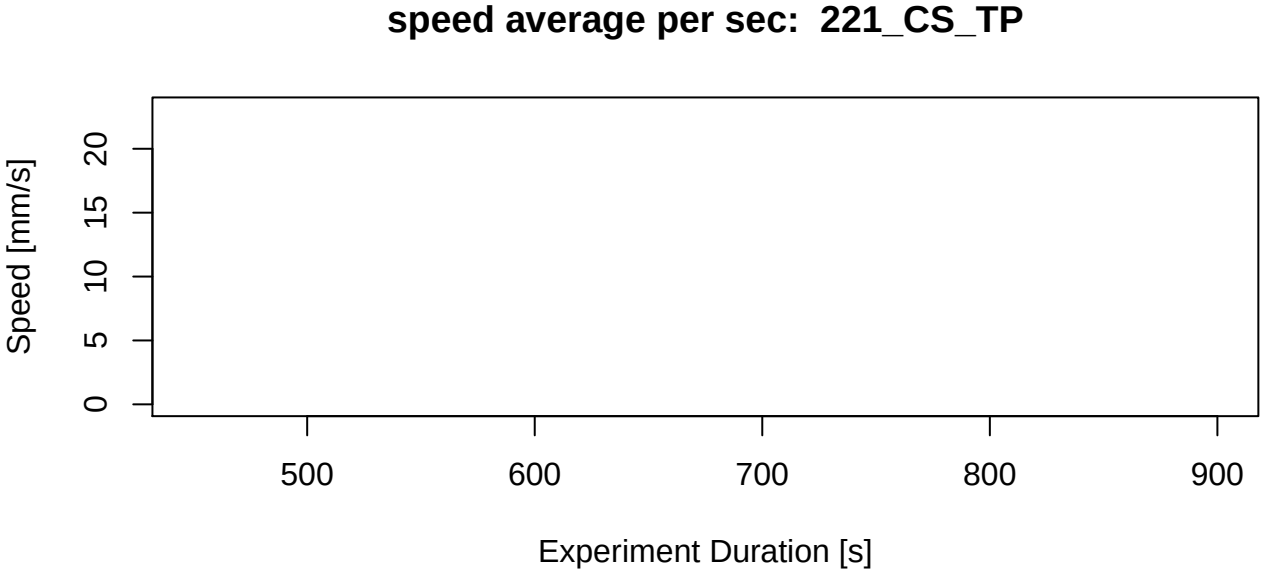

relative angle histogram
Density
0.00
0.02
0.04
−150
−100
−50
0
50
100
150
rel.angle2

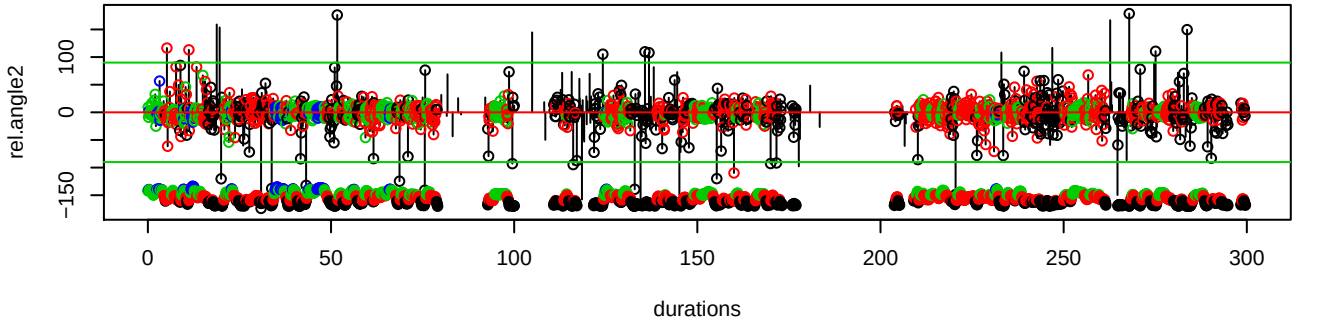

meander histogram (*7.5)
Density
0.00
0.03
0.06
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

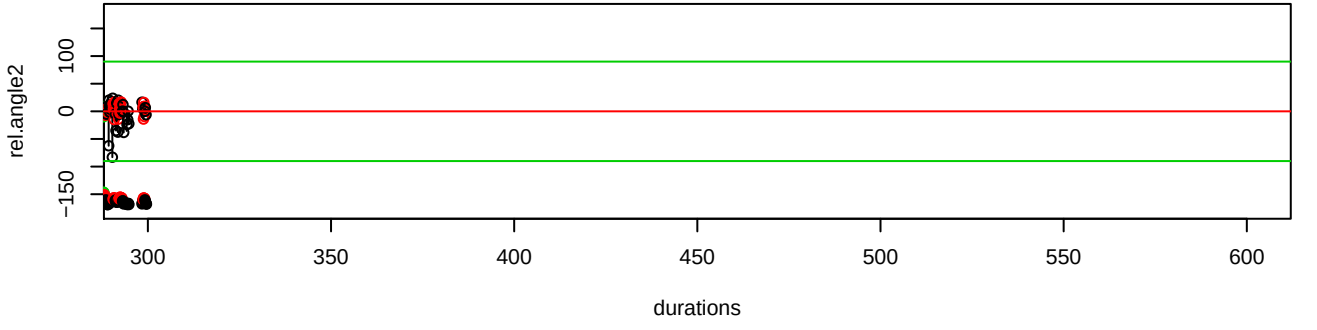

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

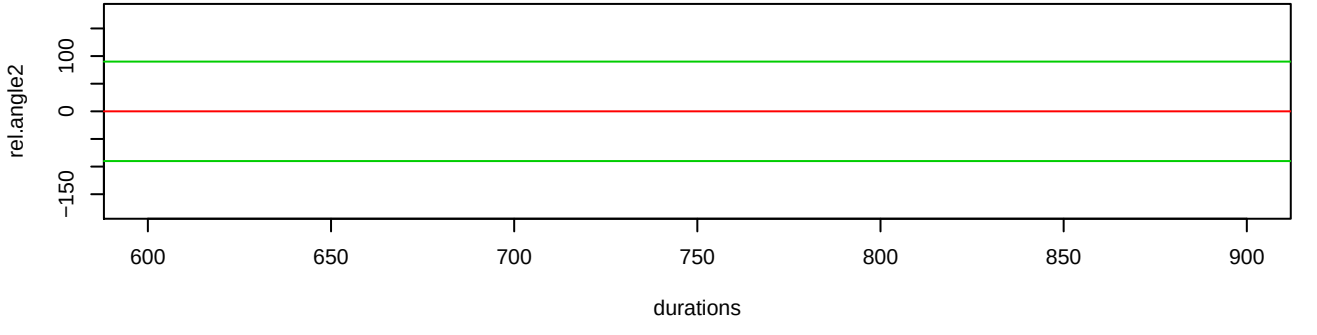

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

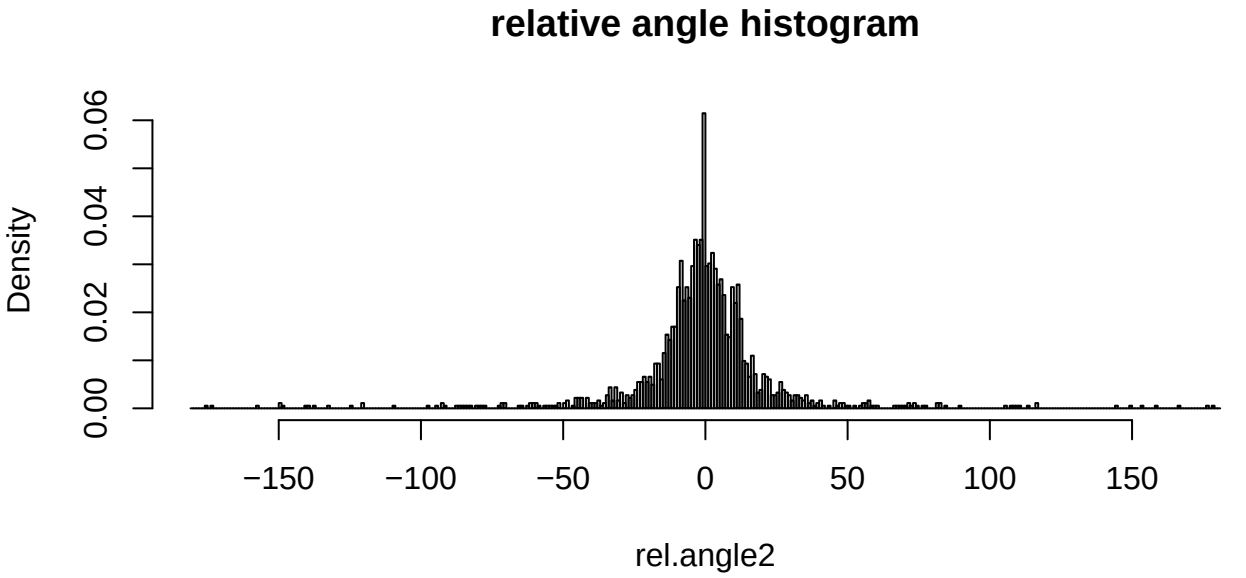

speed average per sec: 221_CS_TP
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

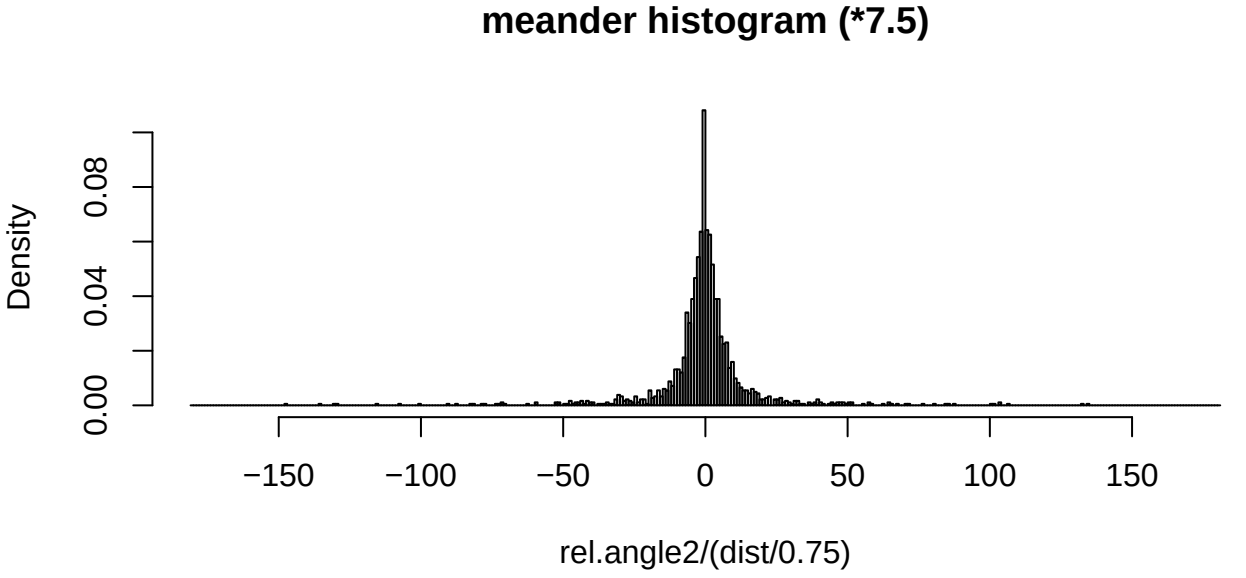

speed average per sec: 221_CS_TP
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

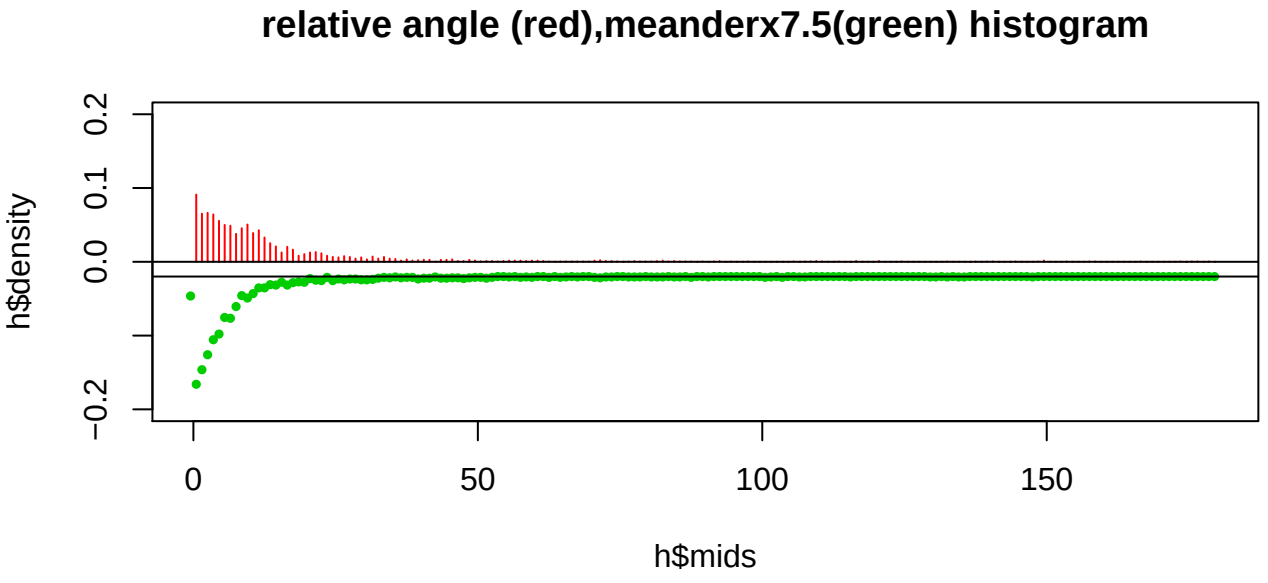

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

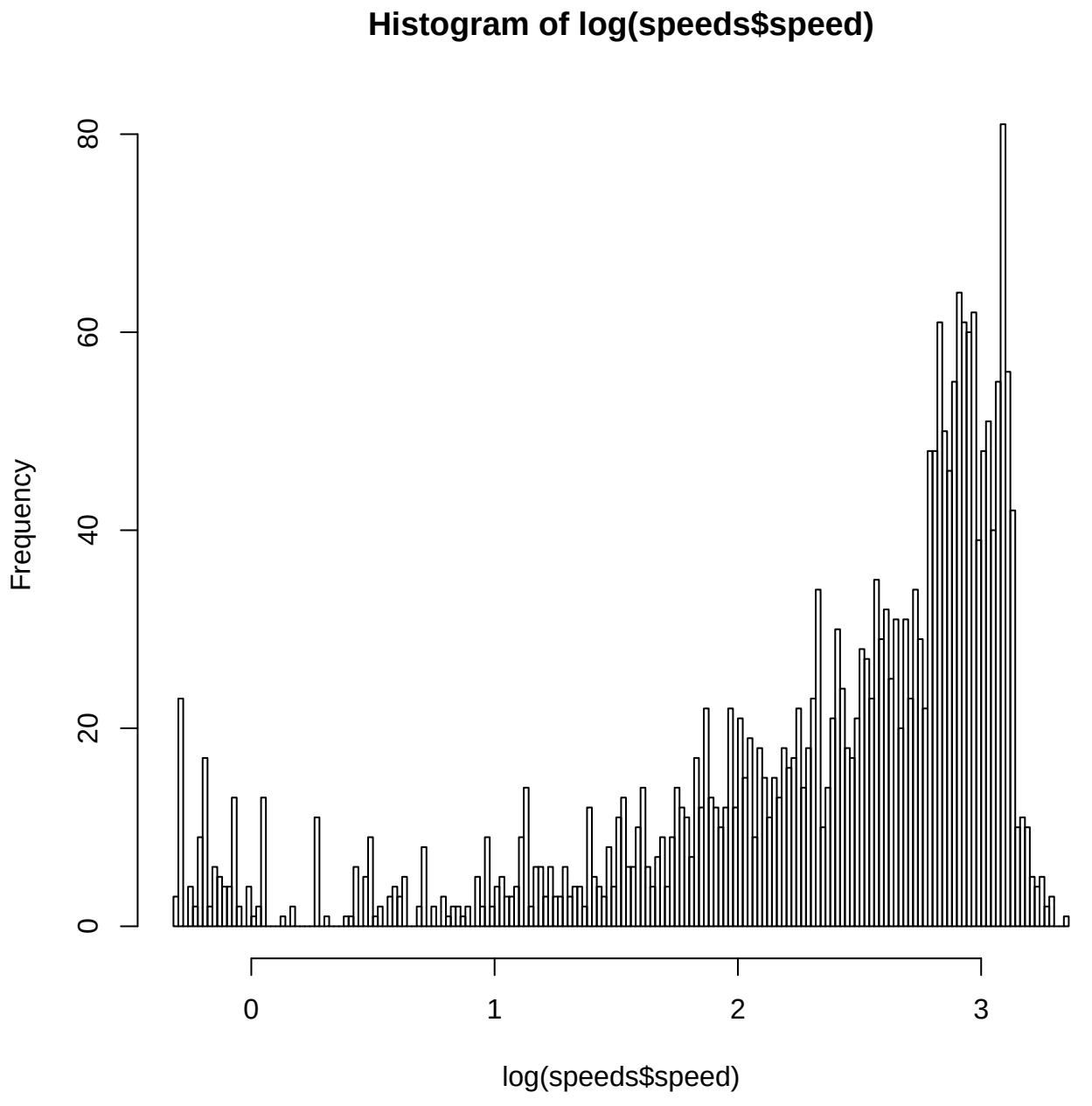

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

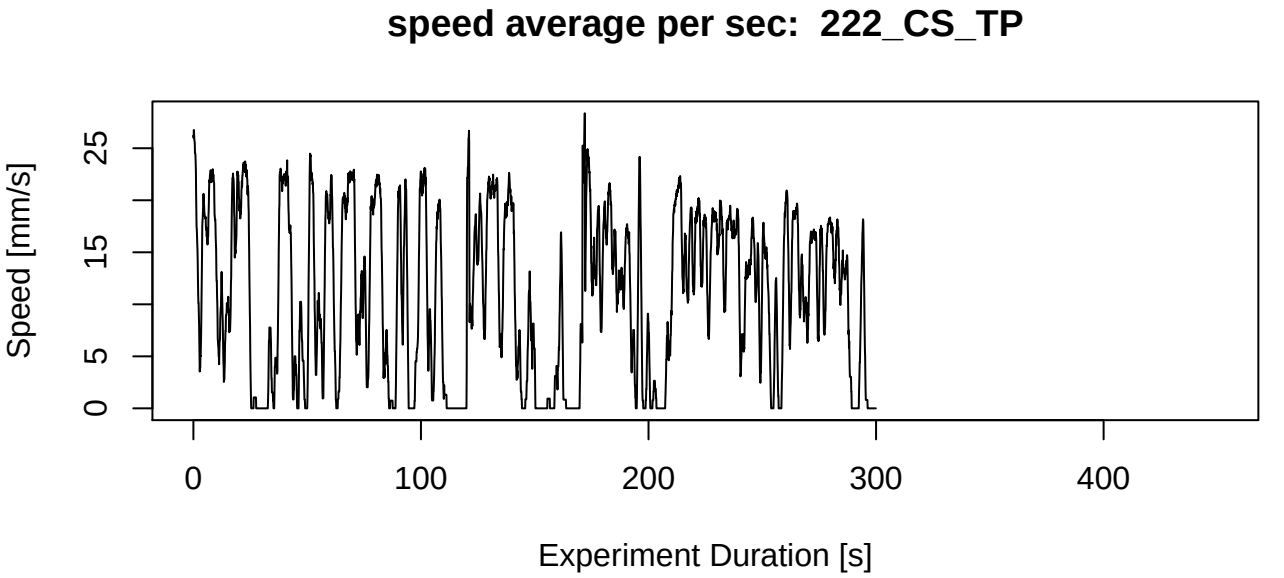

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

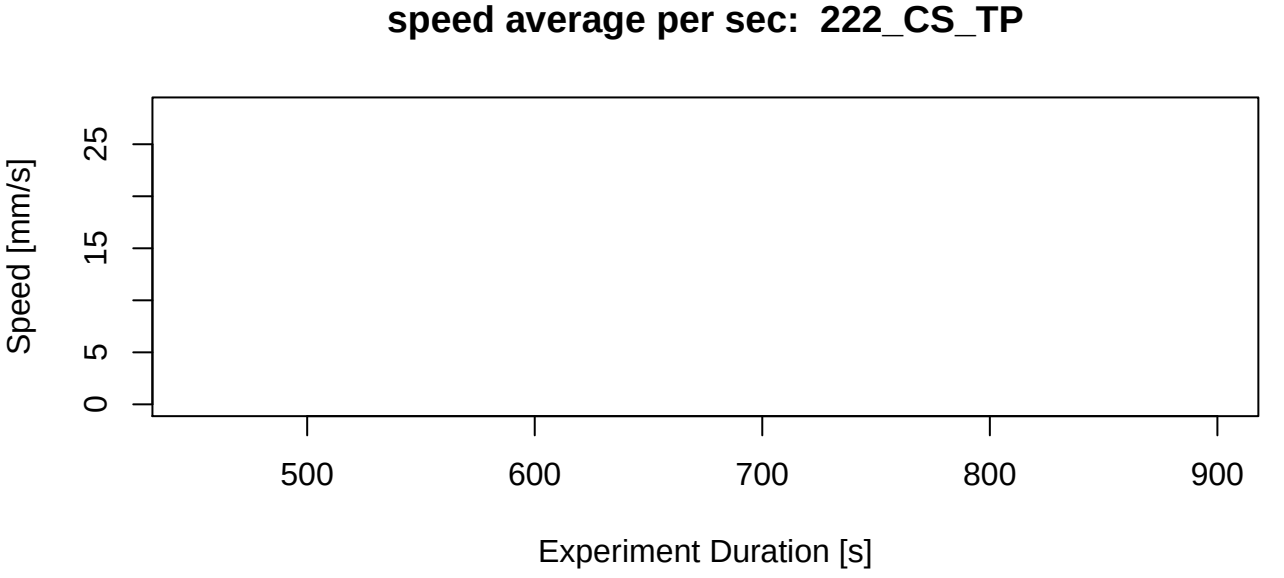

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

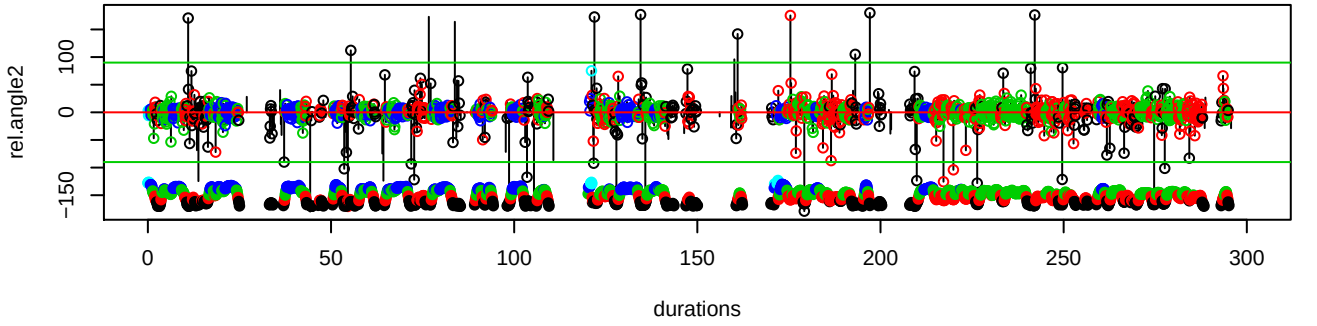

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

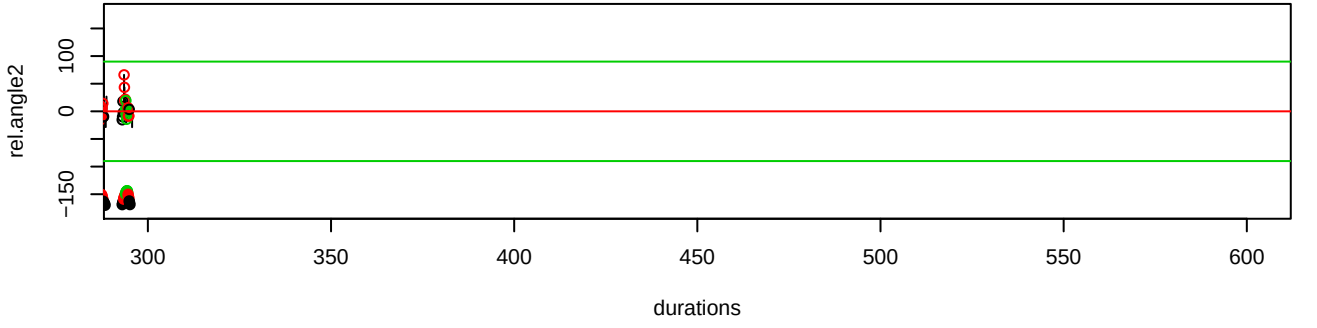

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

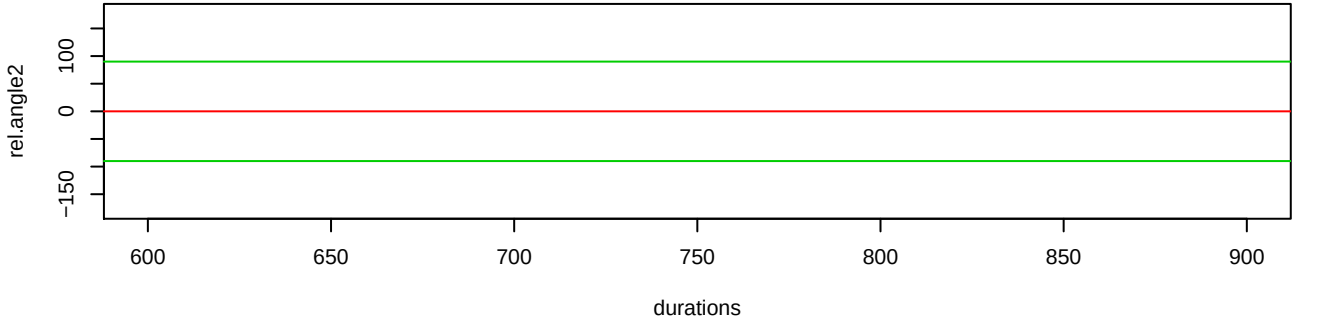

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
0
1
2
3
log(speeds$speed)

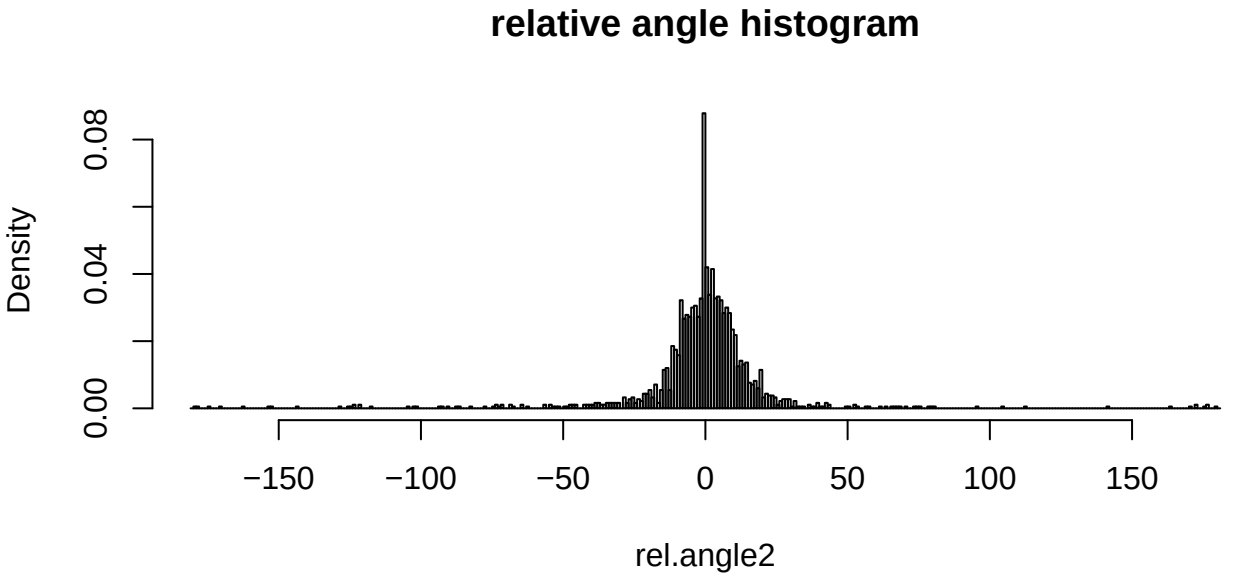

speed average per sec: 222_CS_TP
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

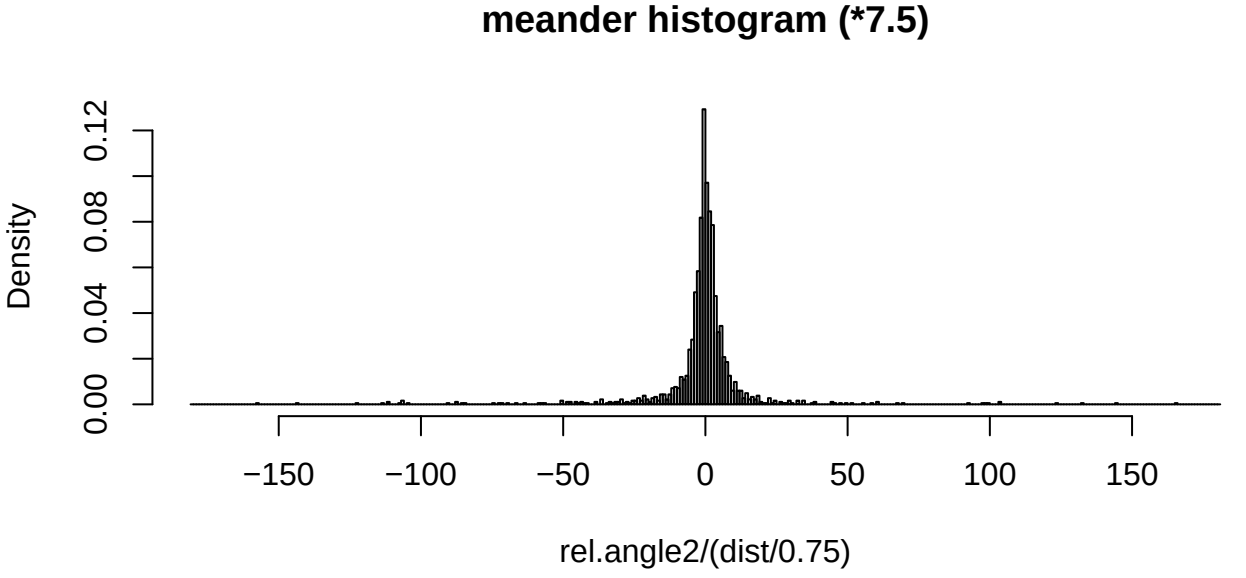

speed average per sec: 222_CS_TP
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

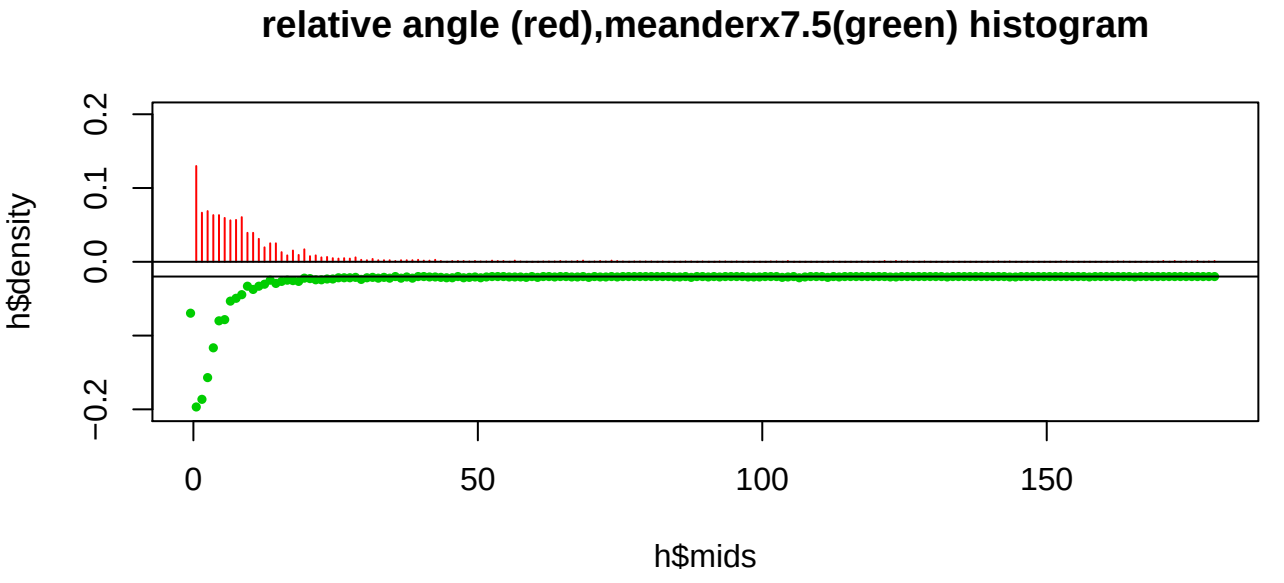

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

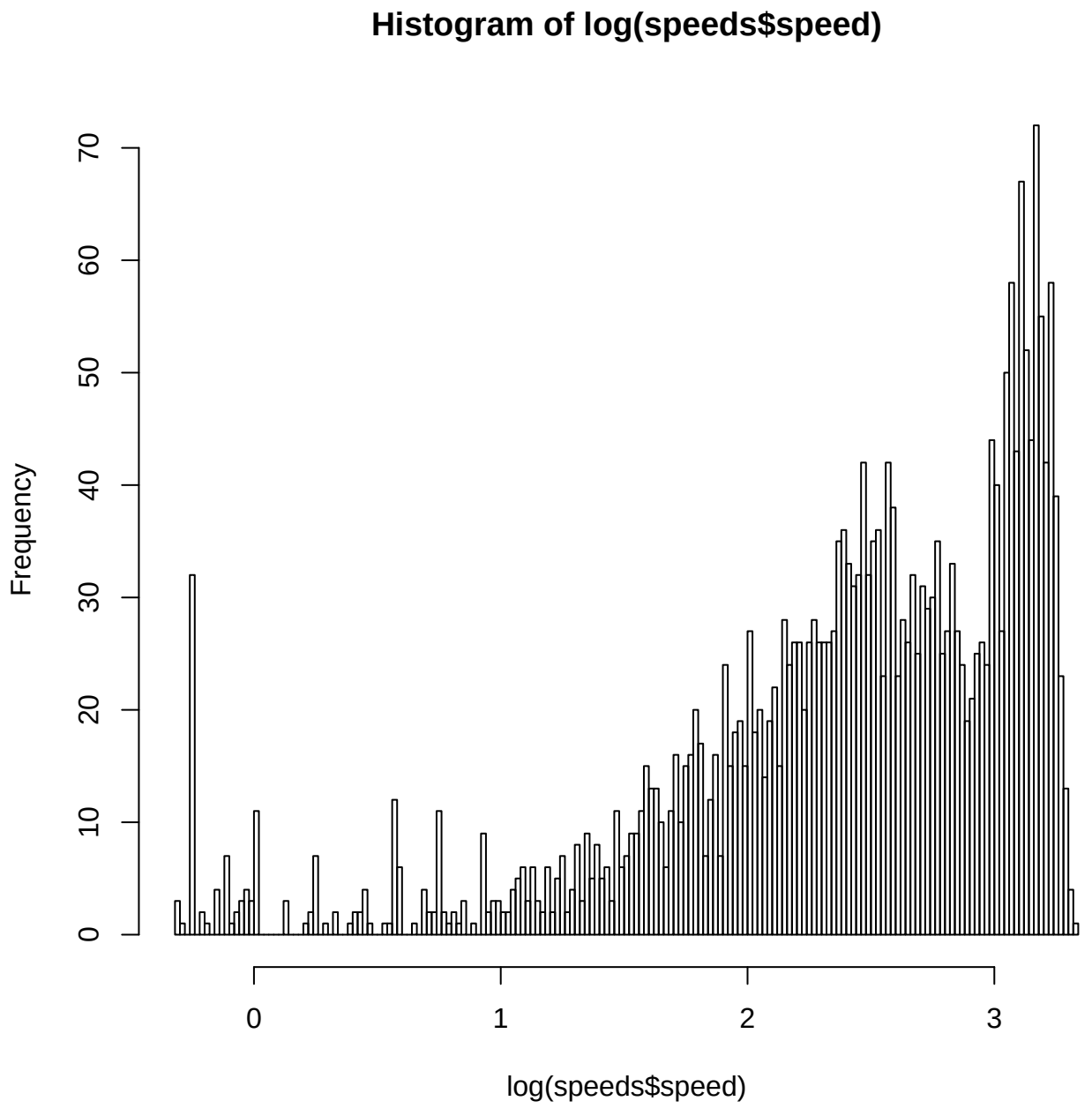

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

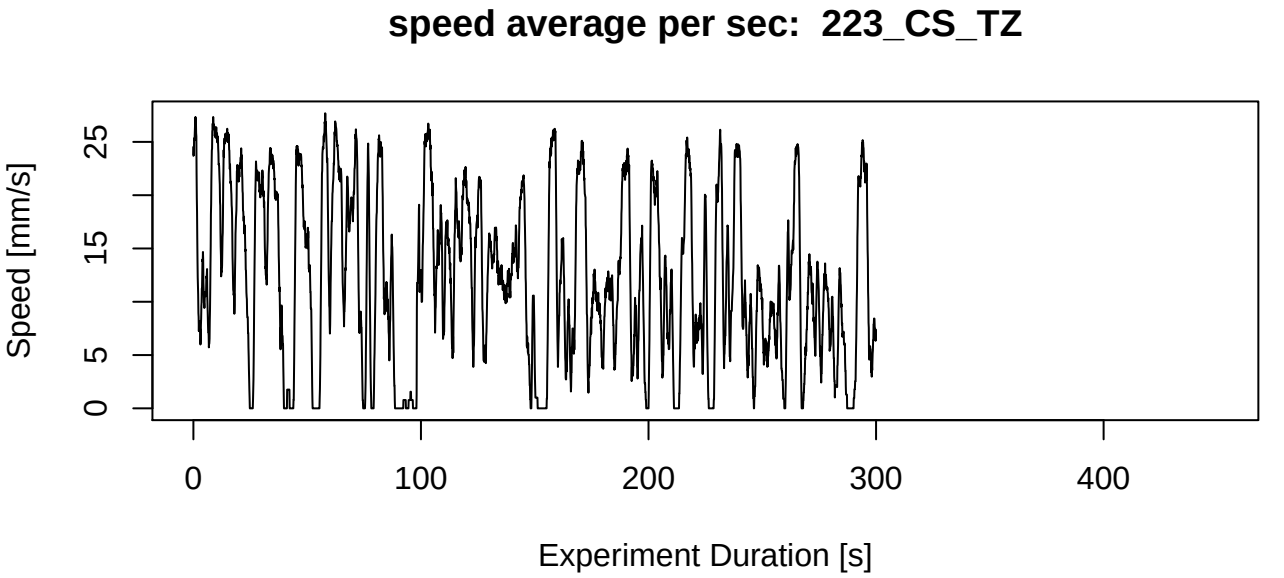

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

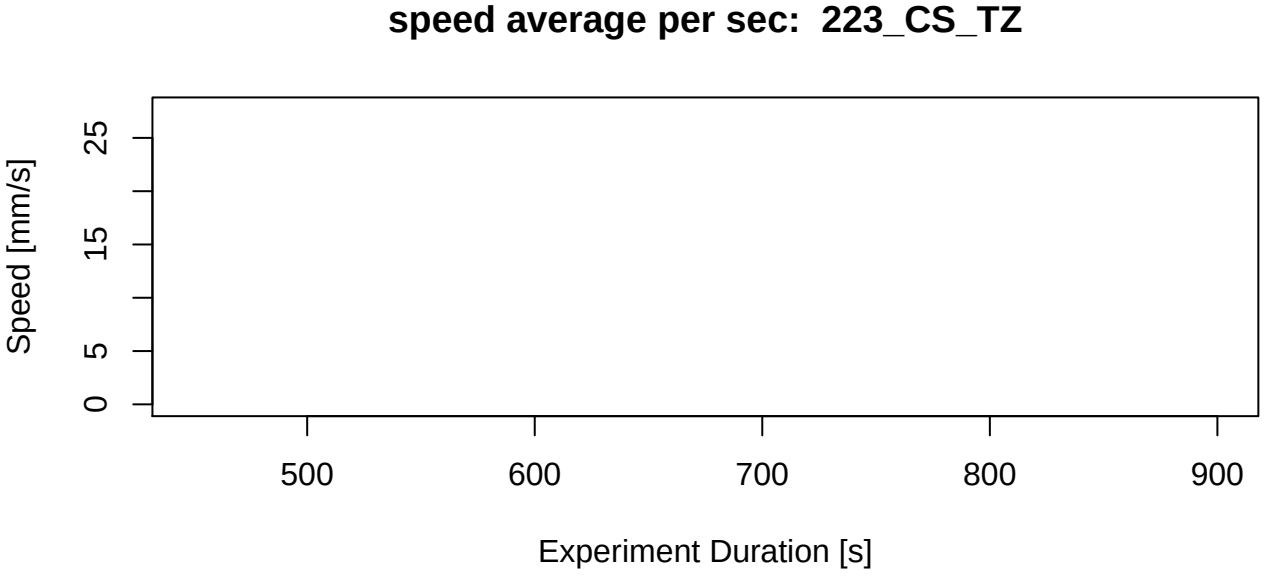

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

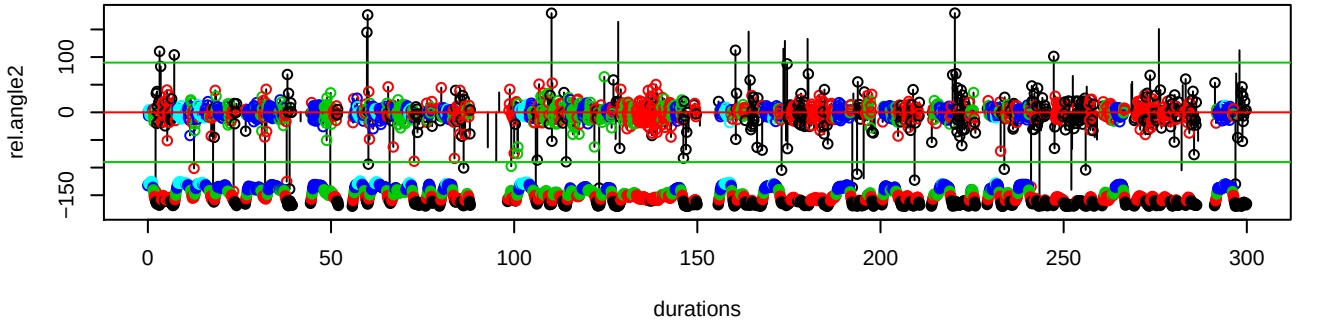

meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

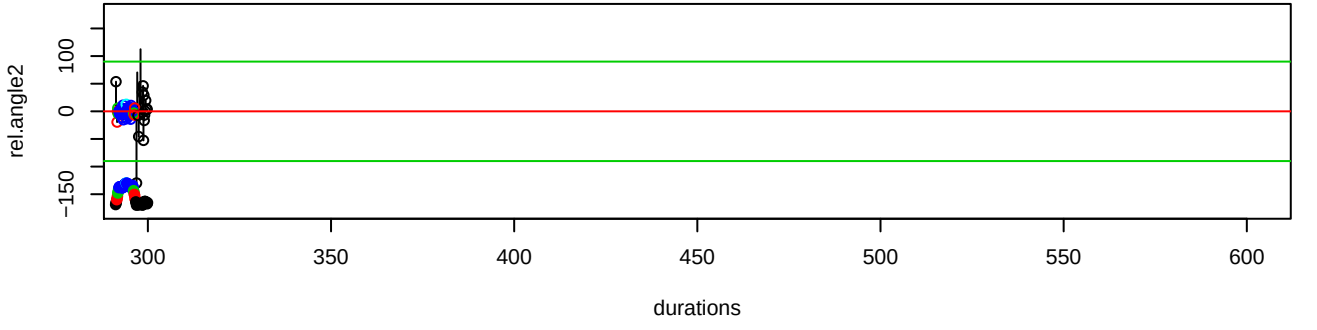

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

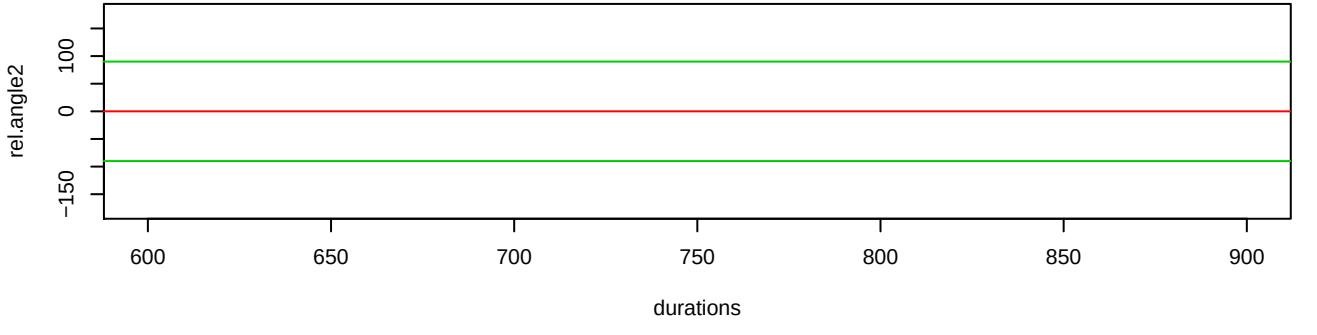

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0
1
2
3
log(speeds$speed)

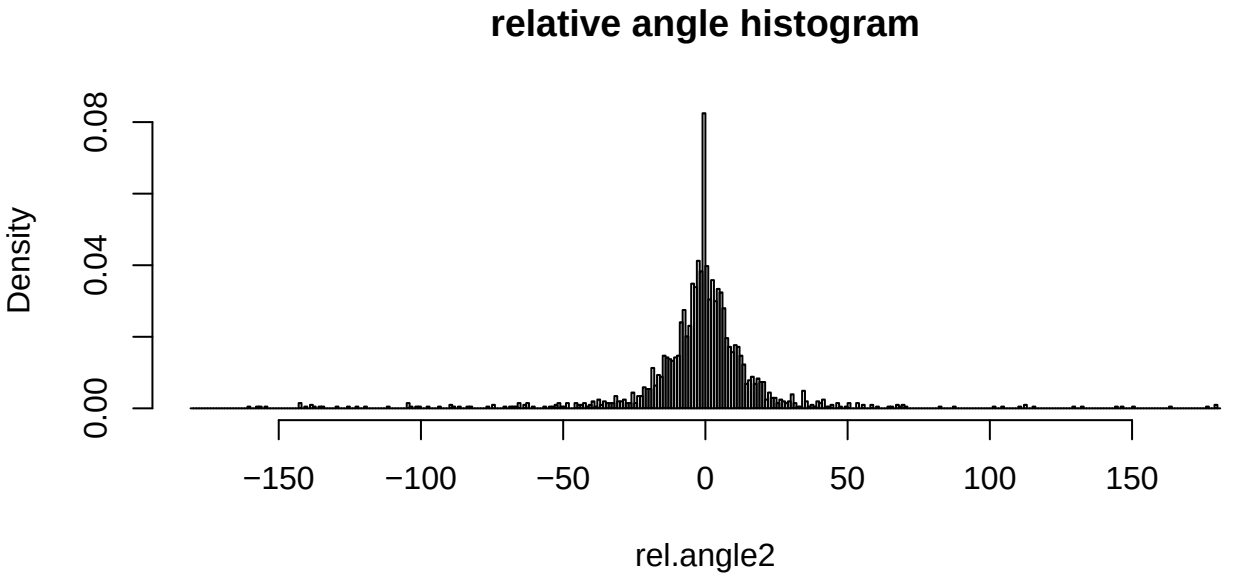

speed average per sec: 223_CS_TZ
Speed [mm/s]
0
5
15
25
0
100
200
300
400
Experiment Duration [s]

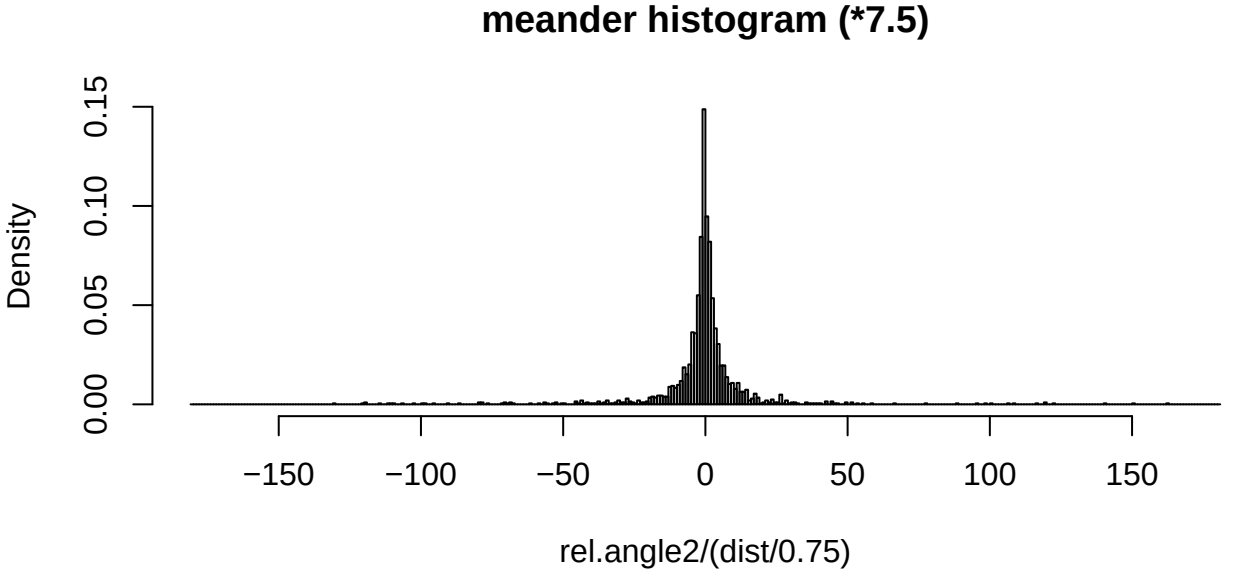

speed average per sec: 223_CS_TZ
Speed [mm/s]
0
5
15
25
500
600
700
800
900
Experiment Duration [s]

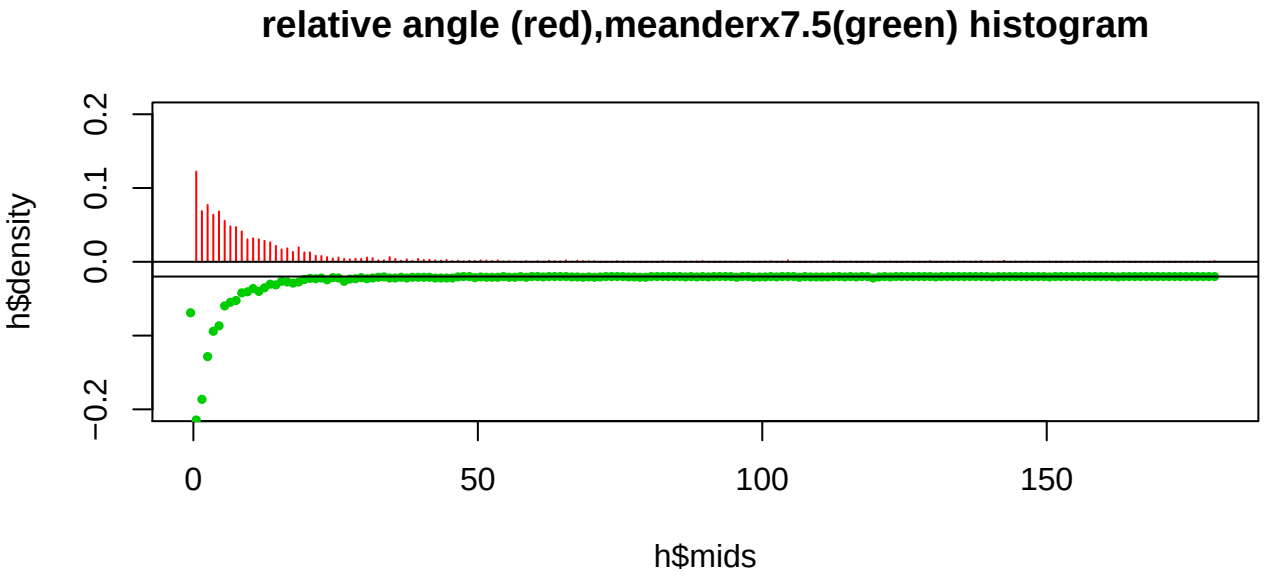

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

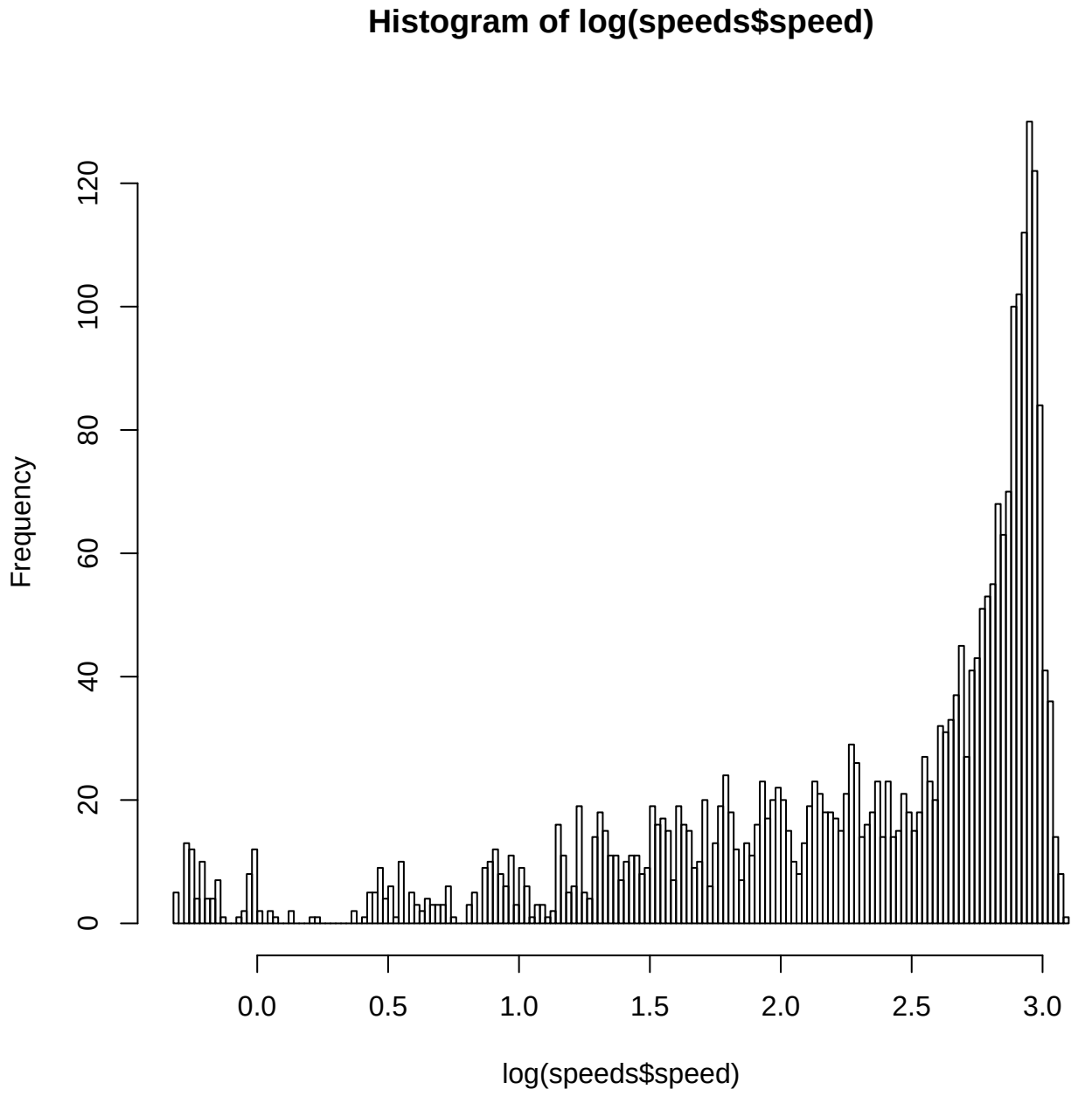

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

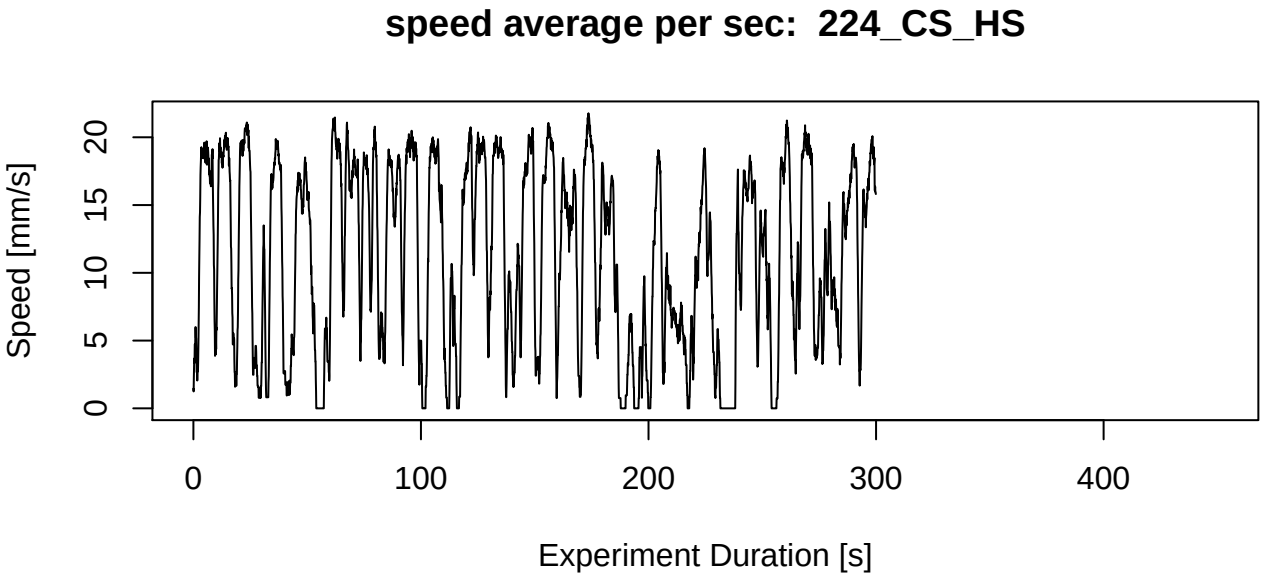

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

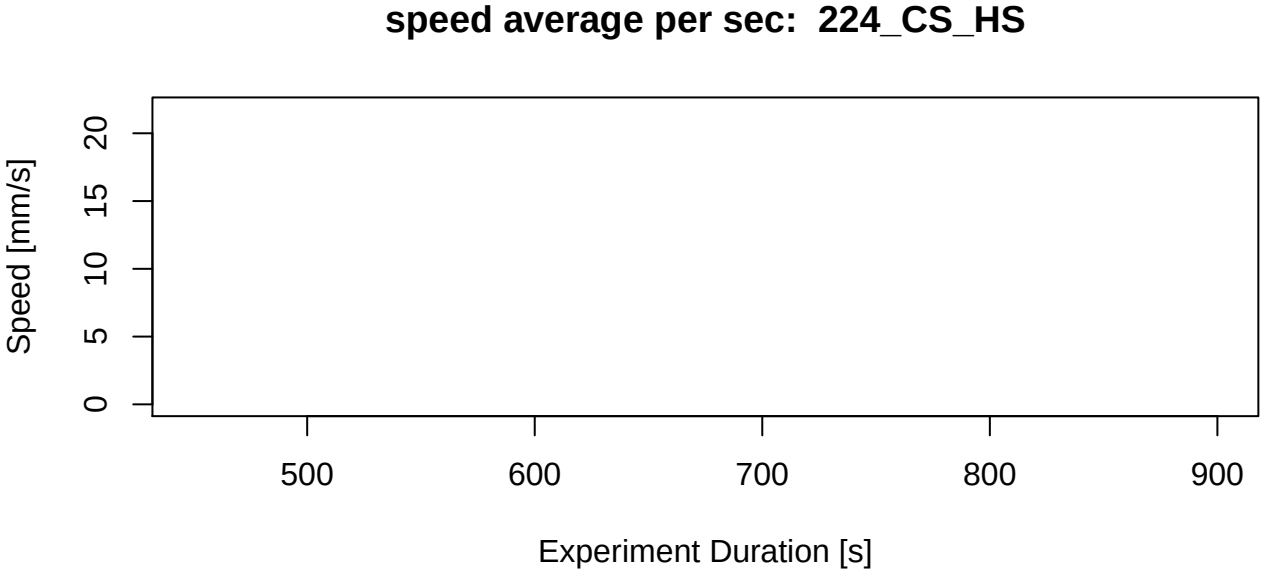

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

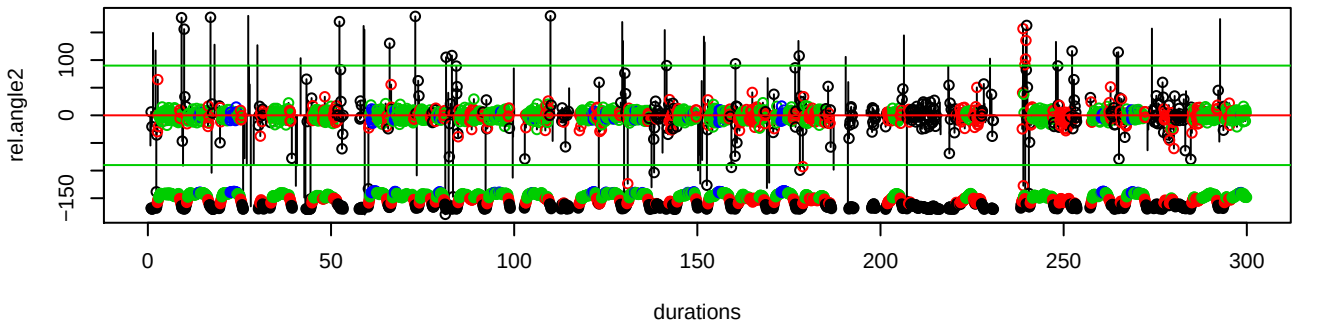

meander histogram (*7.5)
Density
0.00
0.05
0.10
0.15
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

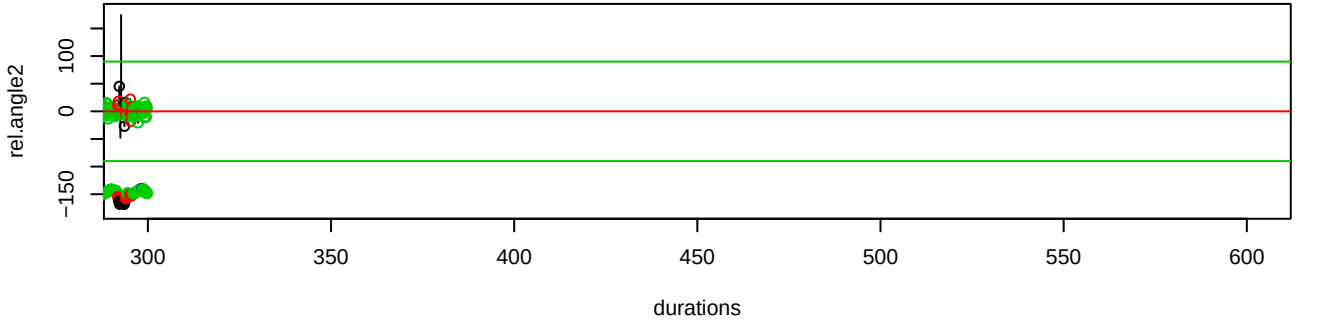

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

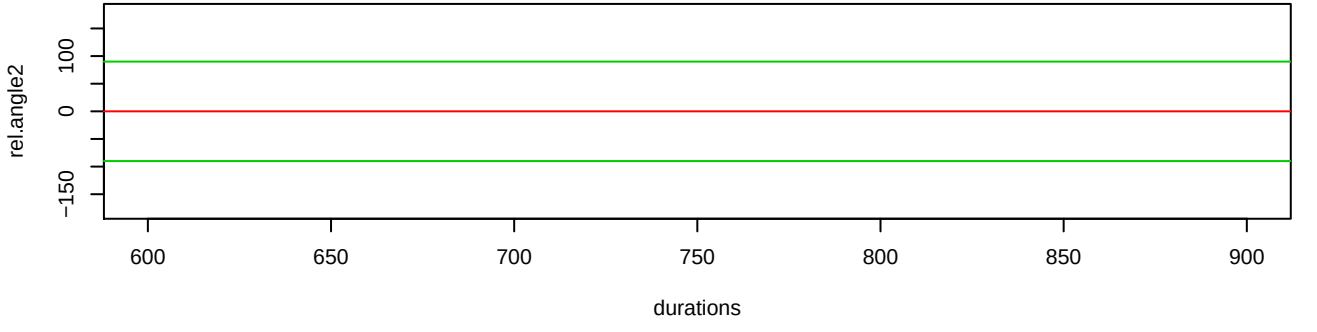

Histogram of log(speeds$speed)
Frequency
0
20
40
60
80
100
120
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

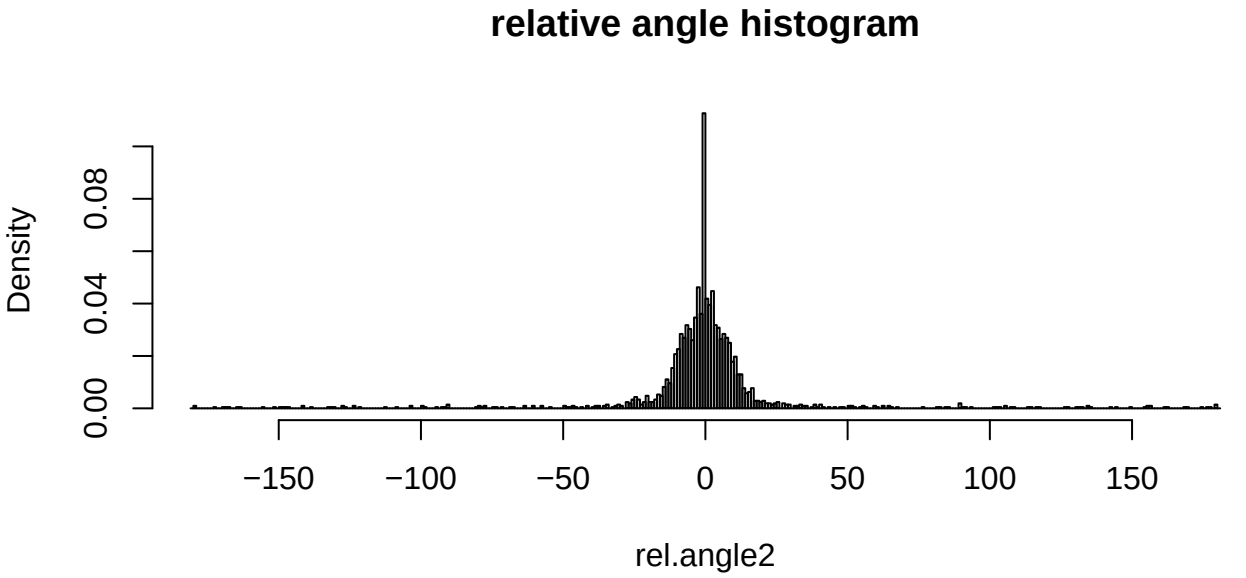

speed average per sec: 224_CS_HS
Speed [mm/s]
0
5
10
15
20
0
100
200
300
400
Experiment Duration [s]

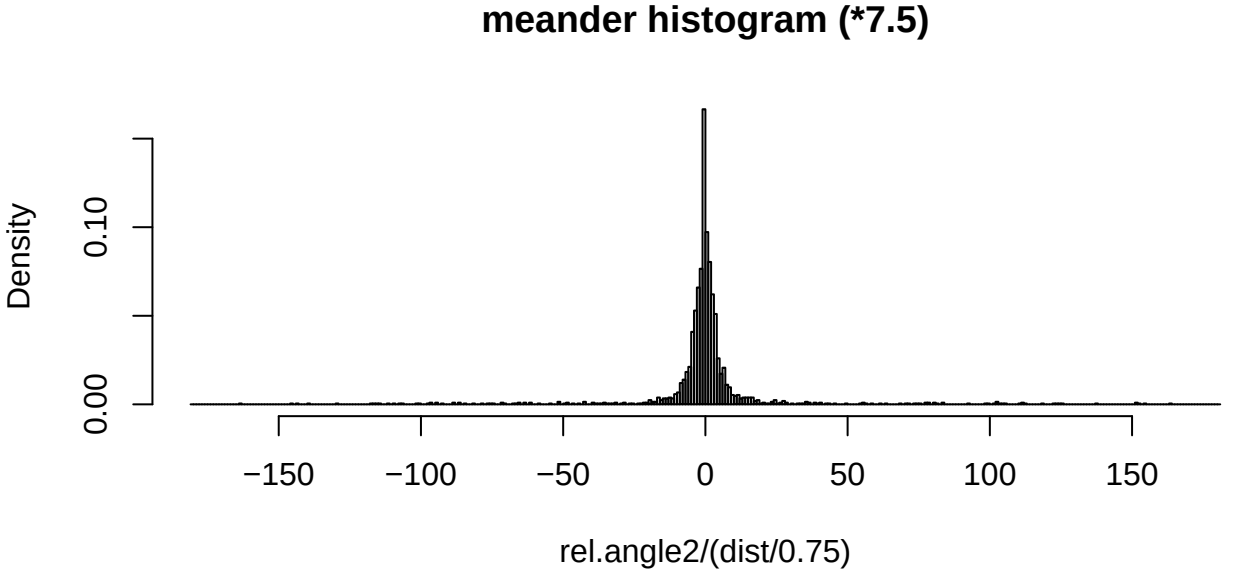

speed average per sec: 224_CS_HS
Speed [mm/s]
0
5
10
15
20
500
600
700
800
900
Experiment Duration [s]

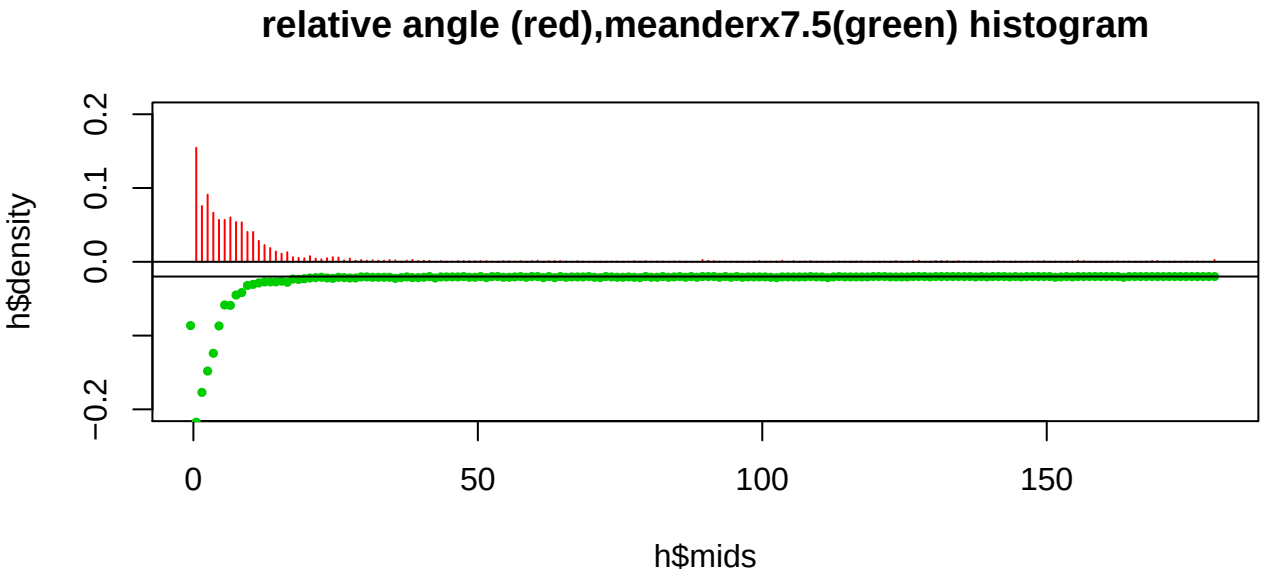

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

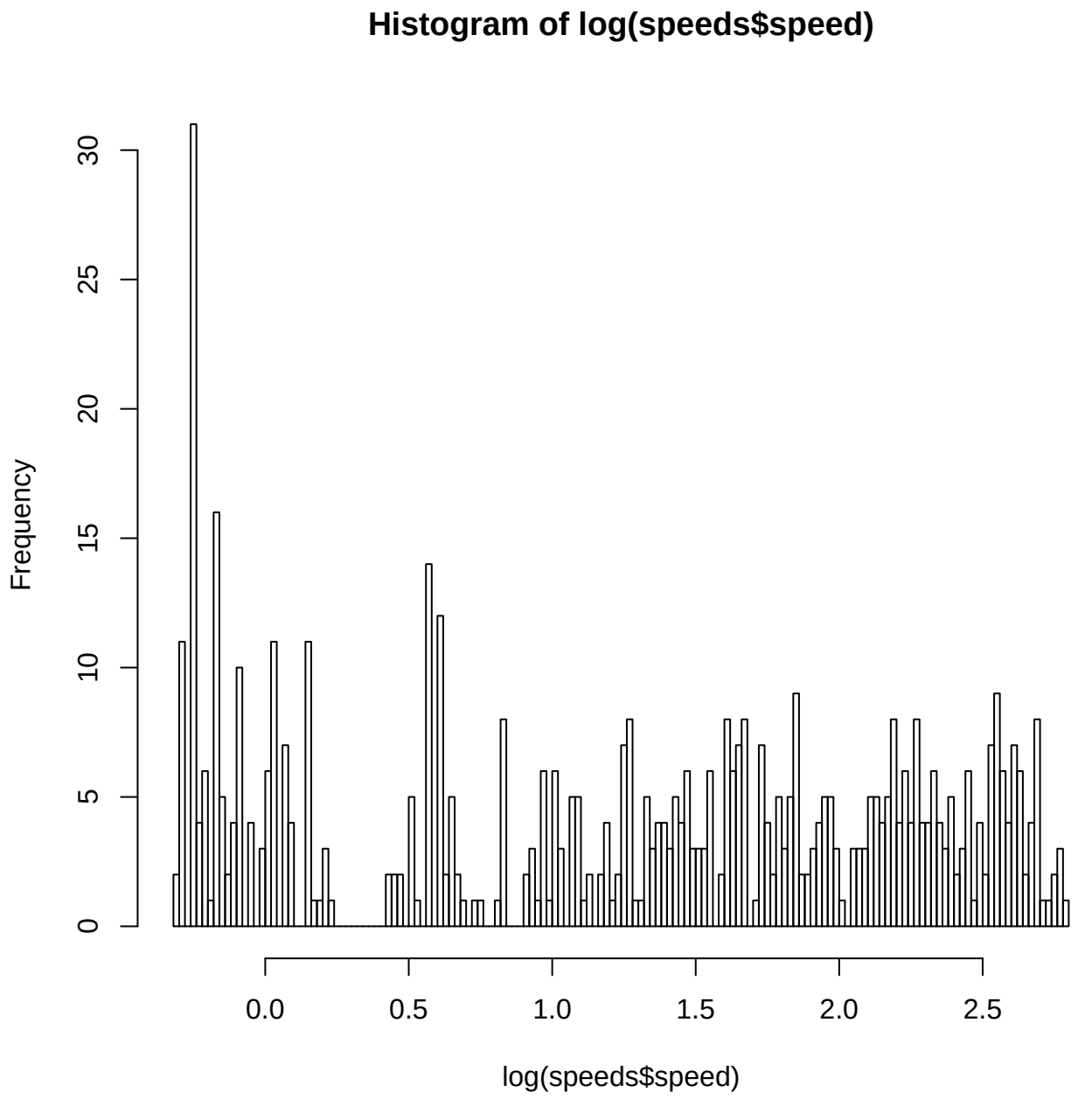

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

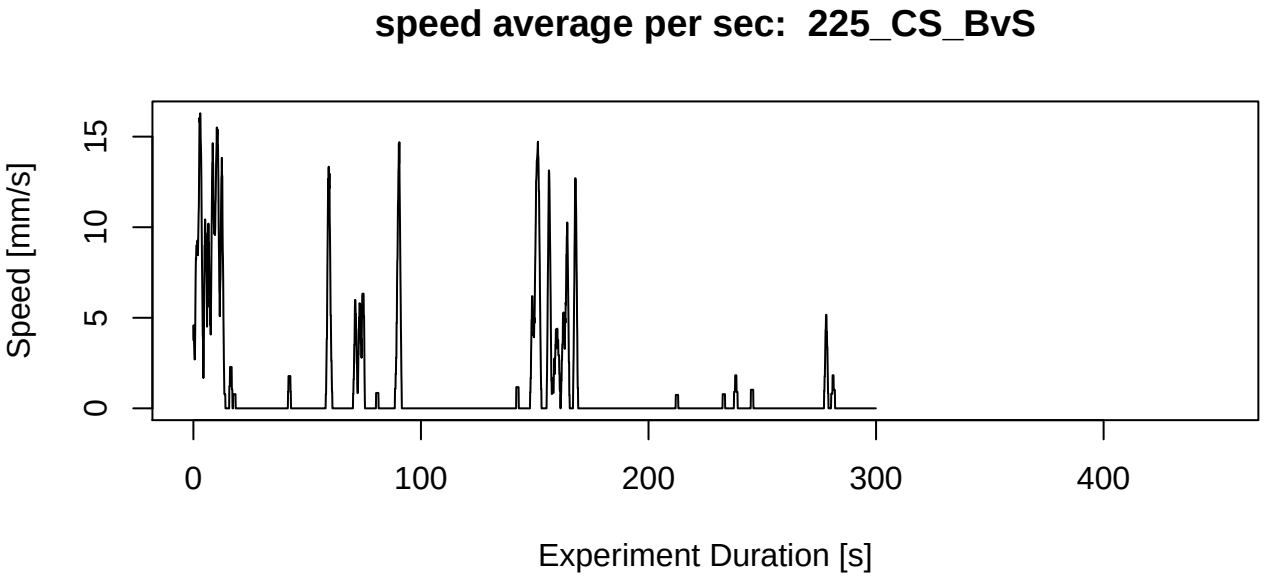

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

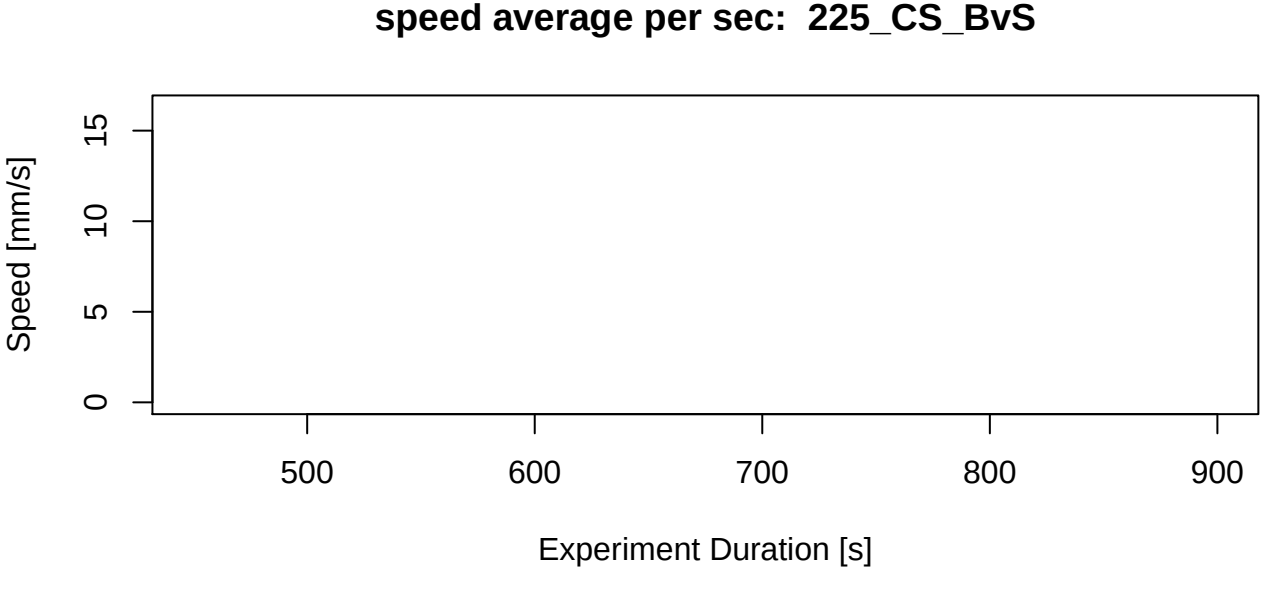

relative angle histogram
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2

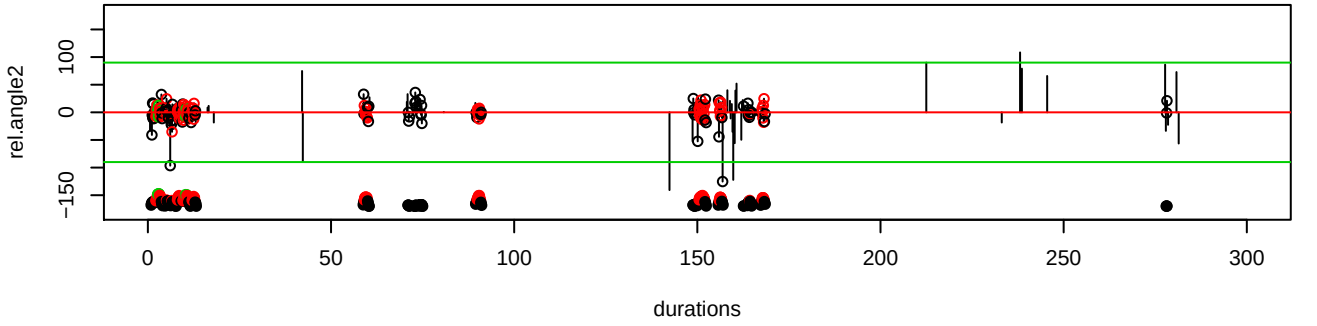

meander histogram (*7.5)
Density
0.00
0.10
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

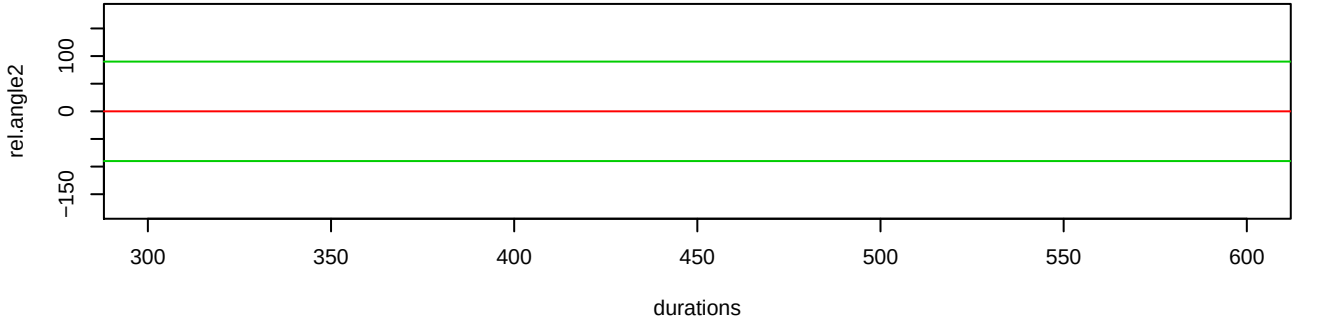

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

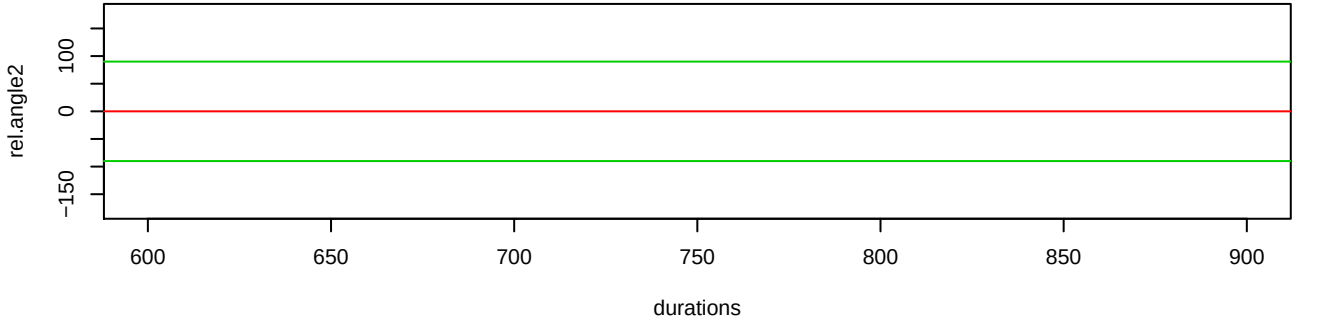

Histogram of log(speeds$speed)
Frequency
0
5
10
15
20
25
30
0.0
0.5
1.0
1.5
2.0
2.5
log(speeds$speed)

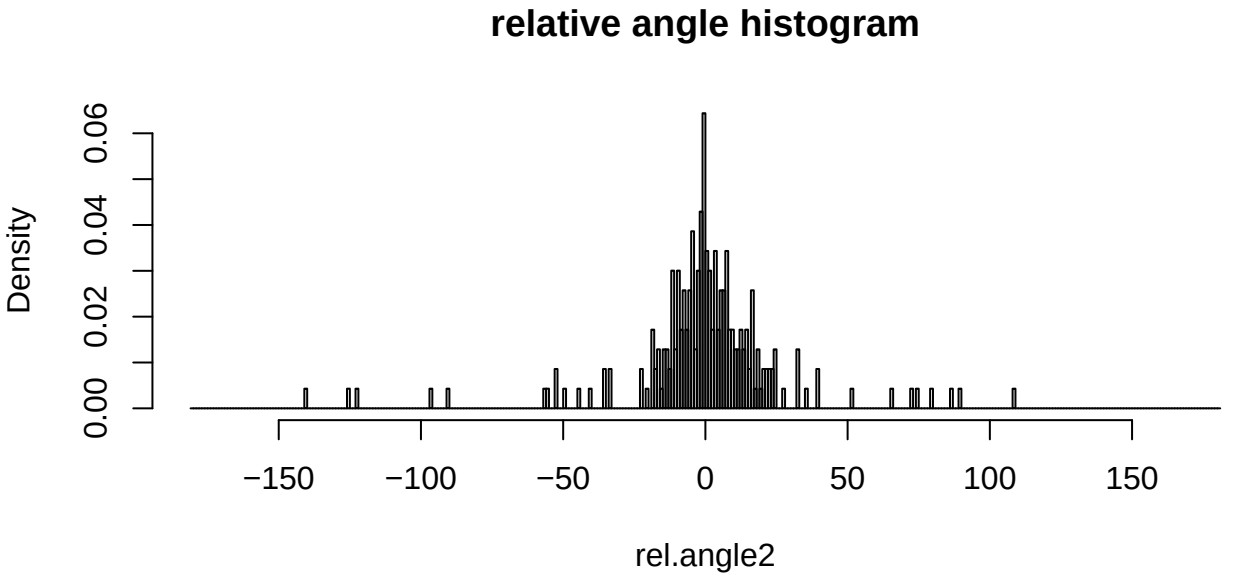

speed average per sec: 225_CS_BvS
Speed [mm/s]
0
5
10
15
0
100
200
300
400
Experiment Duration [s]

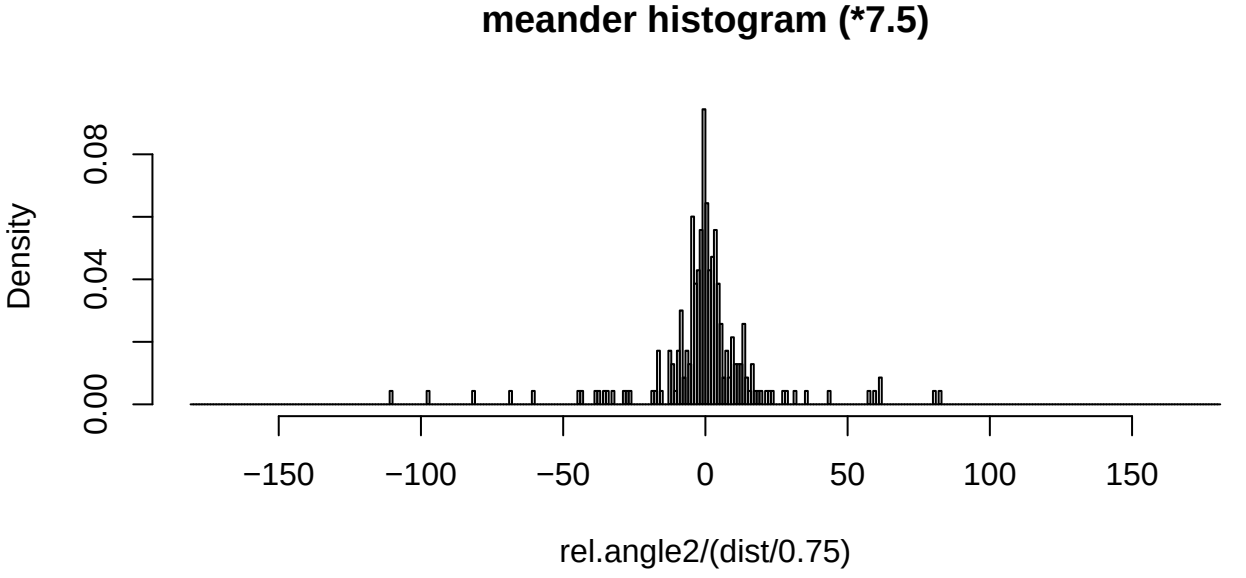

speed average per sec: 225_CS_BvS
Speed [mm/s]
0
5
10
15
500
600
700
800
900
Experiment Duration [s]

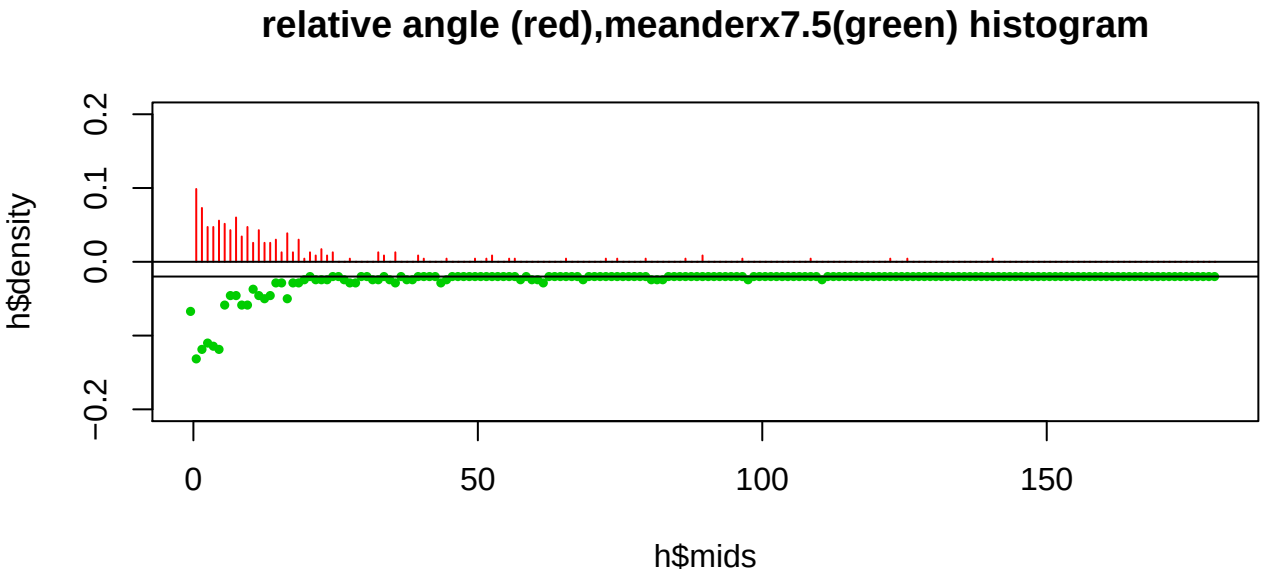

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations

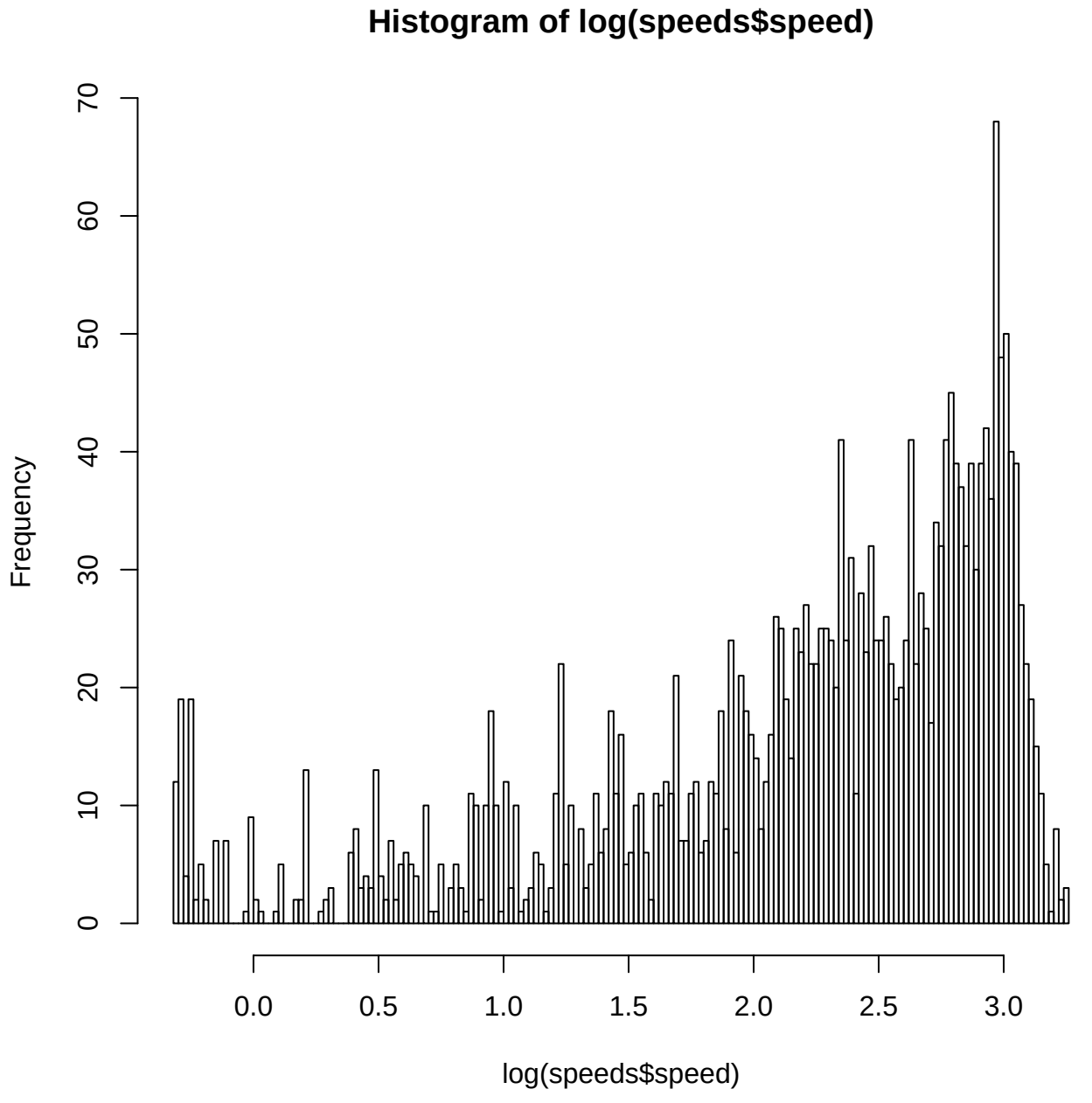

rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations

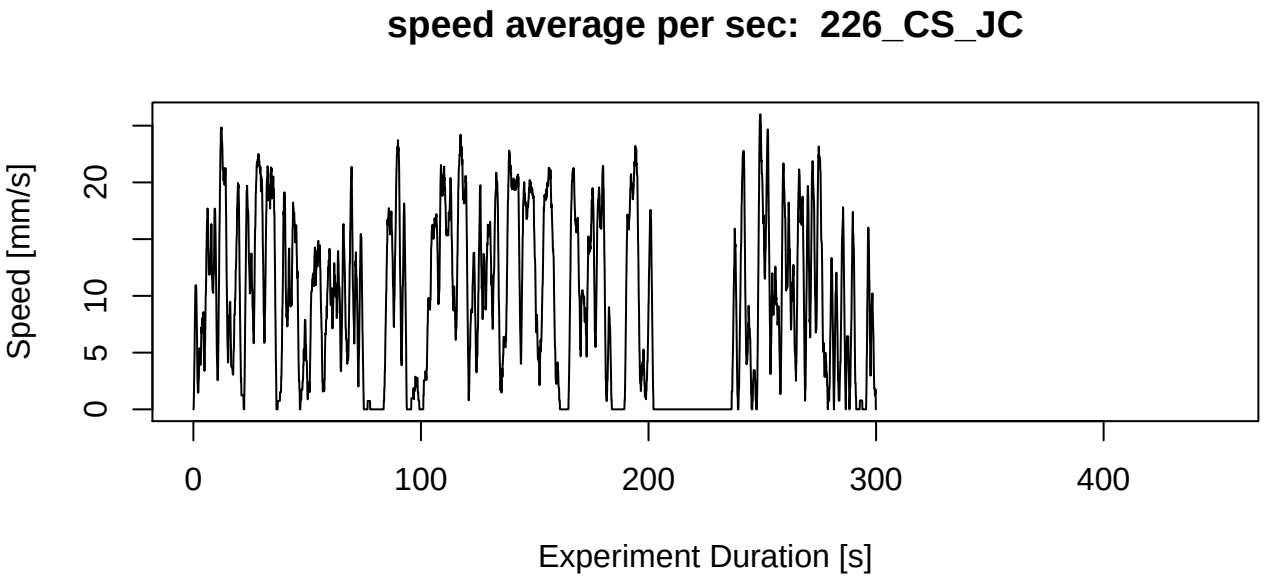

rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations

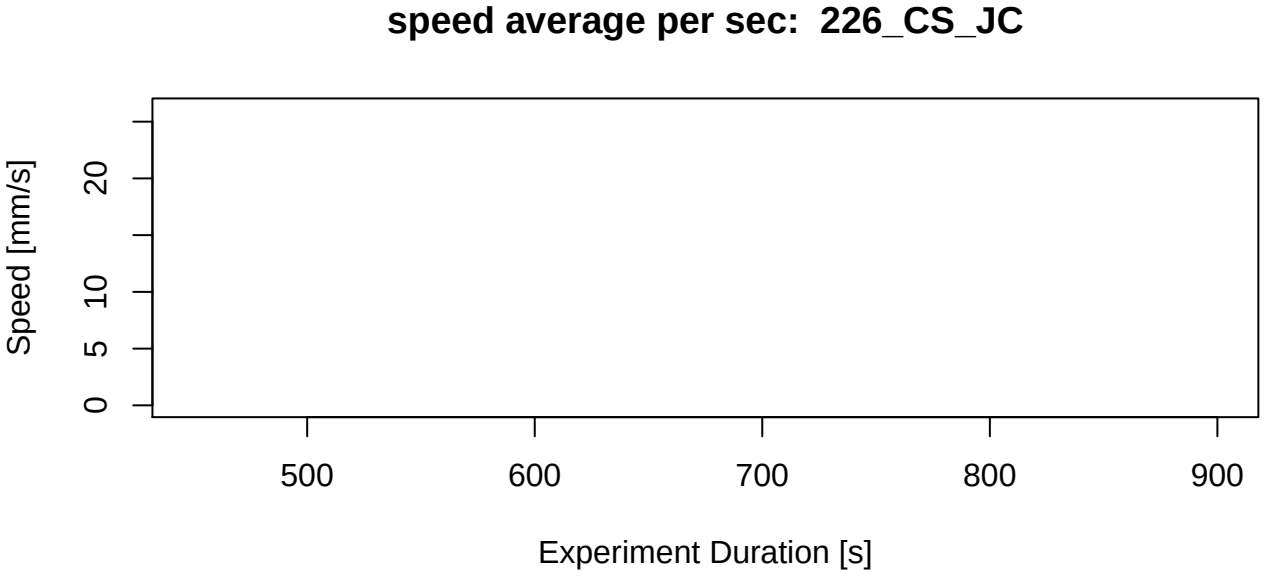

relative angle histogram
Density
0.00
0.02
0.04
0.06
−150
−100
−50
0
50
100
150
rel.angle2

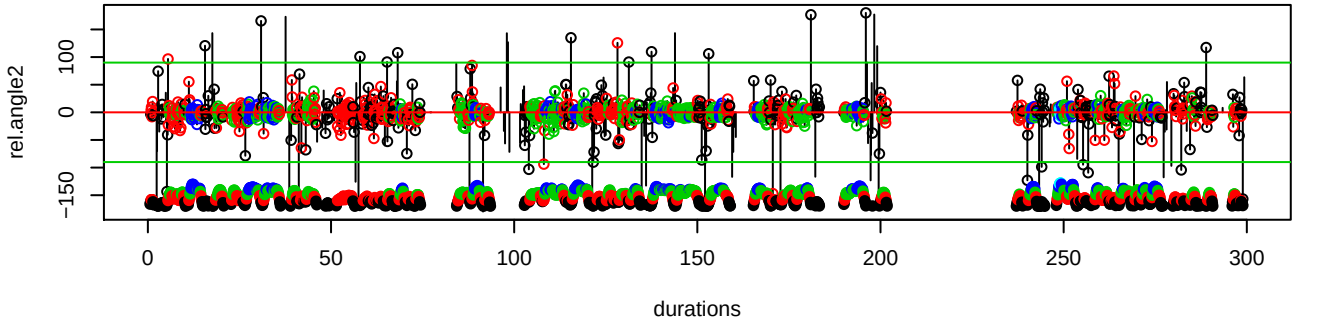

meander histogram (*7.5)
Density
0.00
0.04
0.08
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)

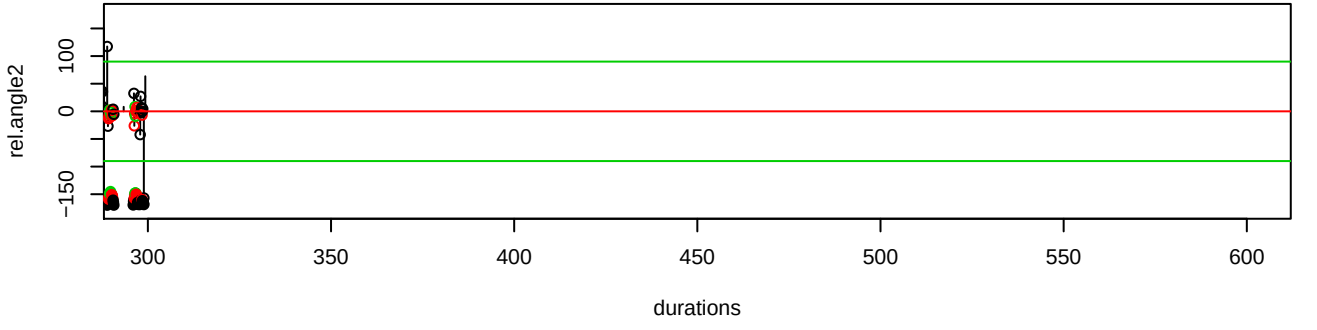

relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids

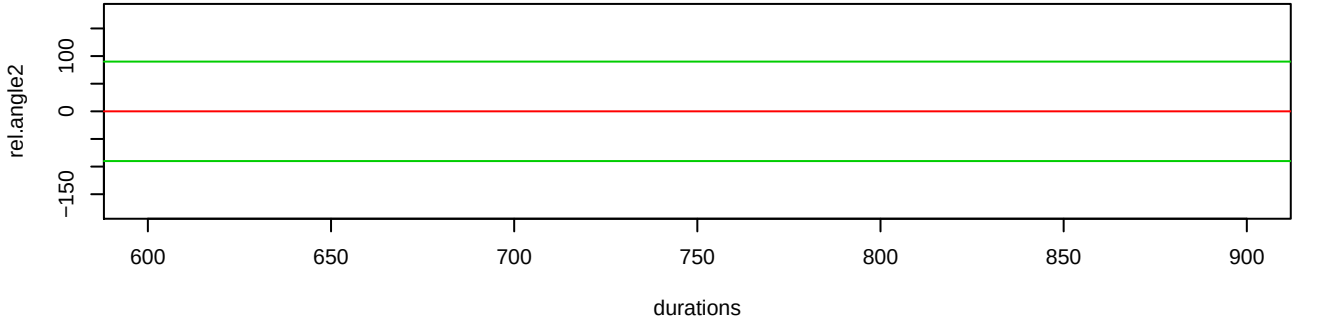

Histogram of log(speeds$speed)
Frequency
0
10
20
30
40
50
60
70
0.0
0.5
1.0
1.5
2.0
2.5
3.0
log(speeds$speed)

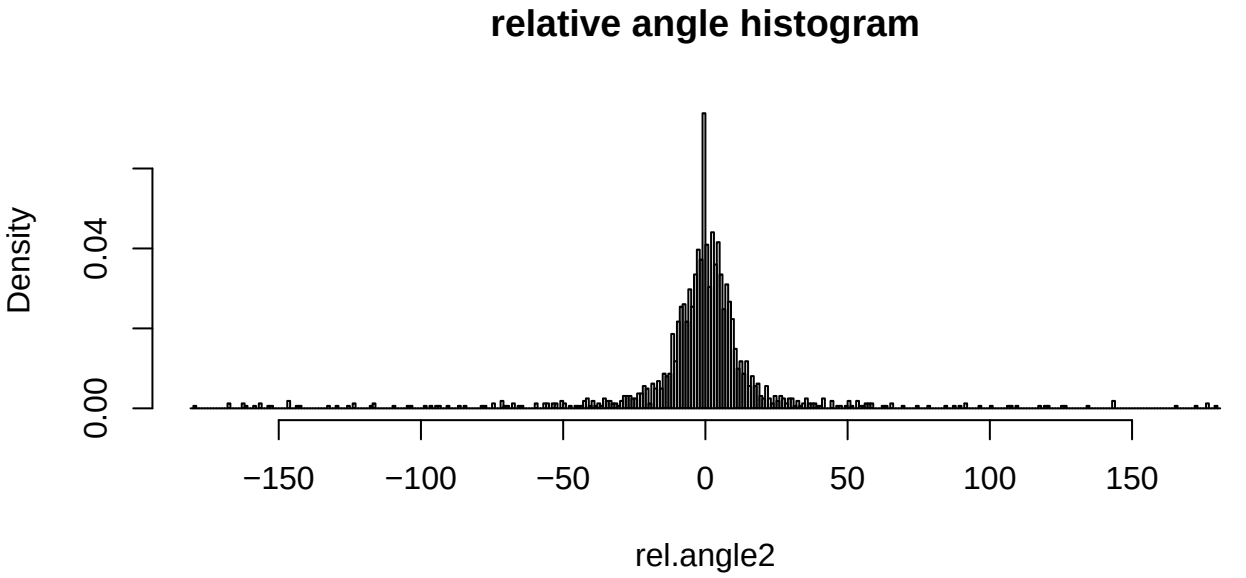

speed average per sec: 226_CS_JC
Speed [mm/s]
0
5
10
20
0
100
200
300
400
Experiment Duration [s]

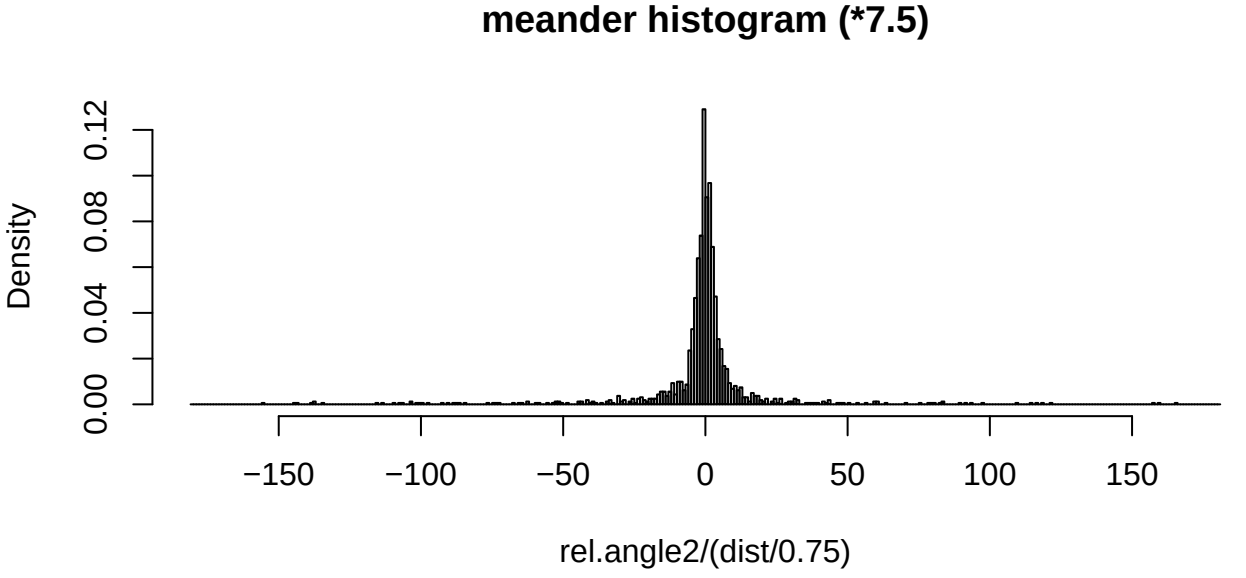

speed average per sec: 226_CS_JC
Speed [mm/s]
0
5
10
20
500
600
700
800
900
Experiment Duration [s]

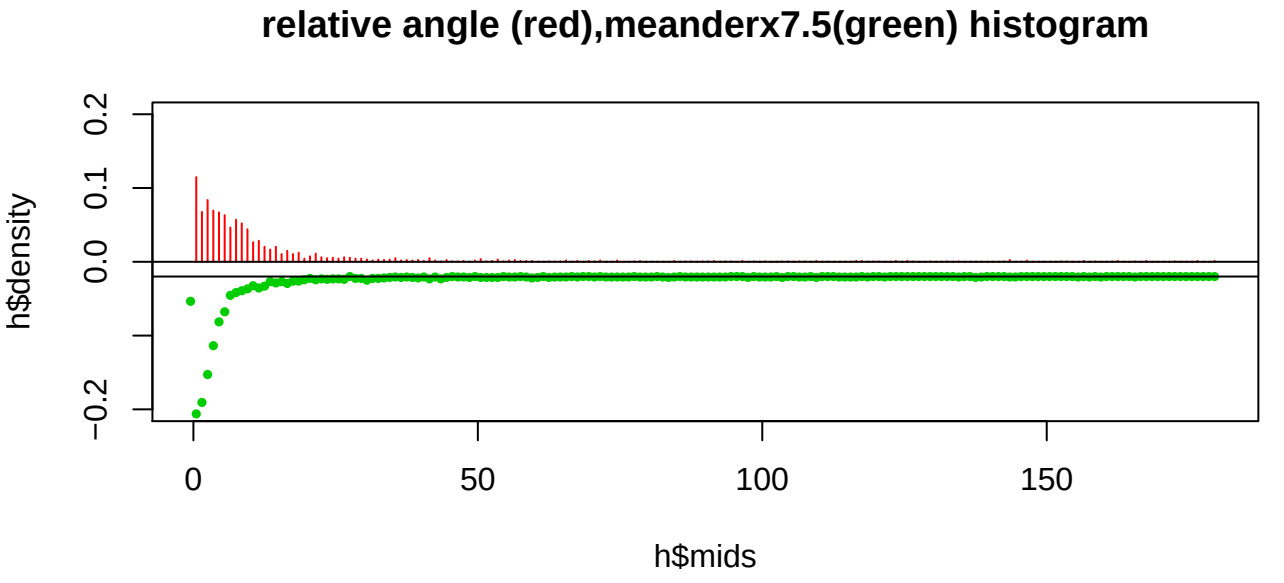

rel.angle2
100
0
−150
0
50
100
150
200
250
300
durations


rel.angle2
100
0
−150
300
350
400
450
500
550
600
durations


rel.angle2
100
0
−150
600
650
700
750
800
850
900
durations


relative angle histogram
Density
0.00
0.04
−150
−100
−50
0
50
100
150
rel.angle2


meander histogram (*7.5)
Density
0.00
0.04
0.08
0.12
−150
−100
−50
0
50
100
150
rel.angle2/(dist/0.75)


relative angle (red),meanderx7.5(green) histogram
h$density
0.2
0.1
0.0
−0.2
0
50
100
150
h$mids