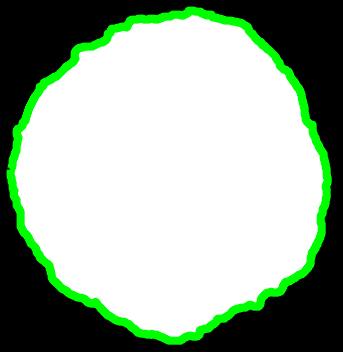
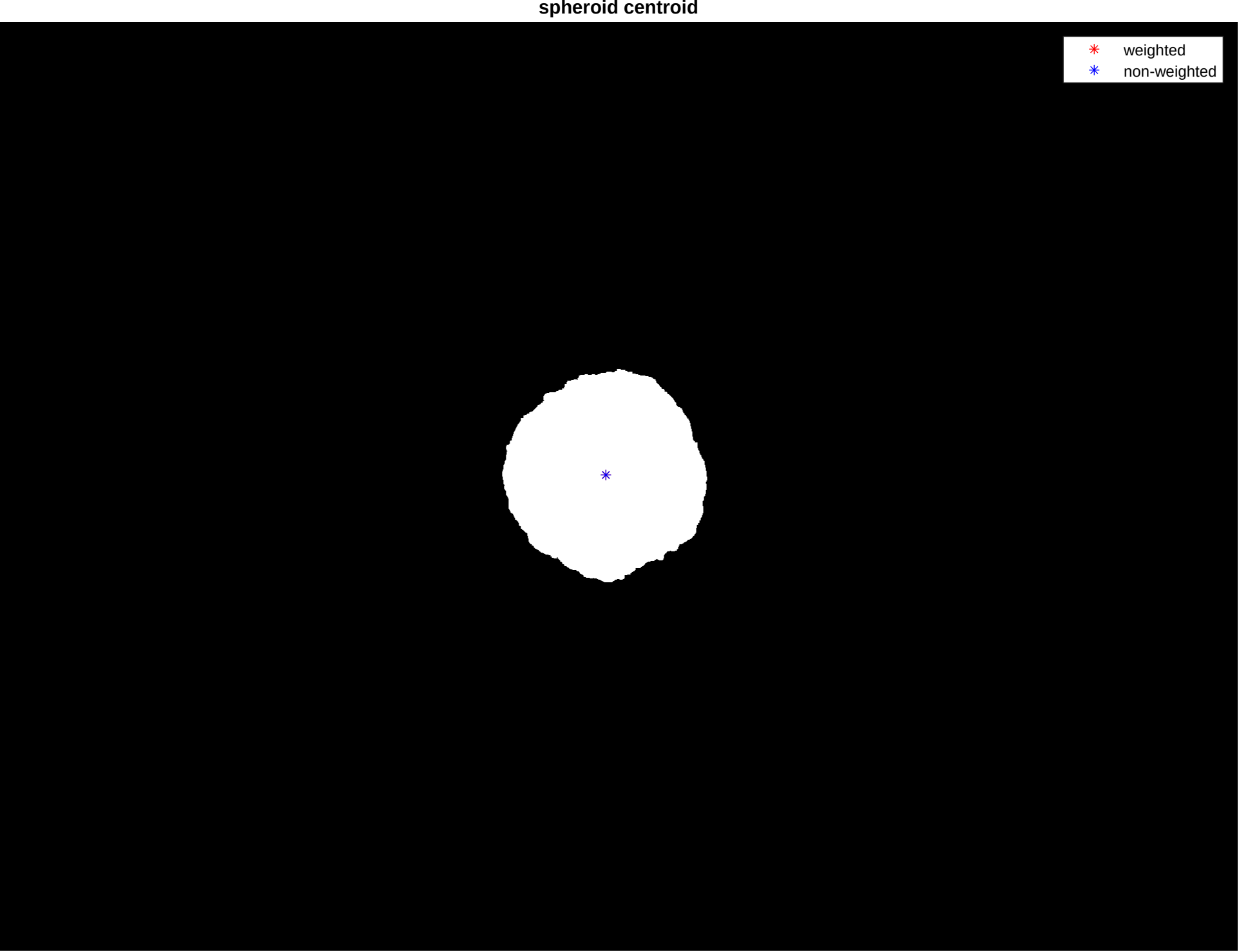
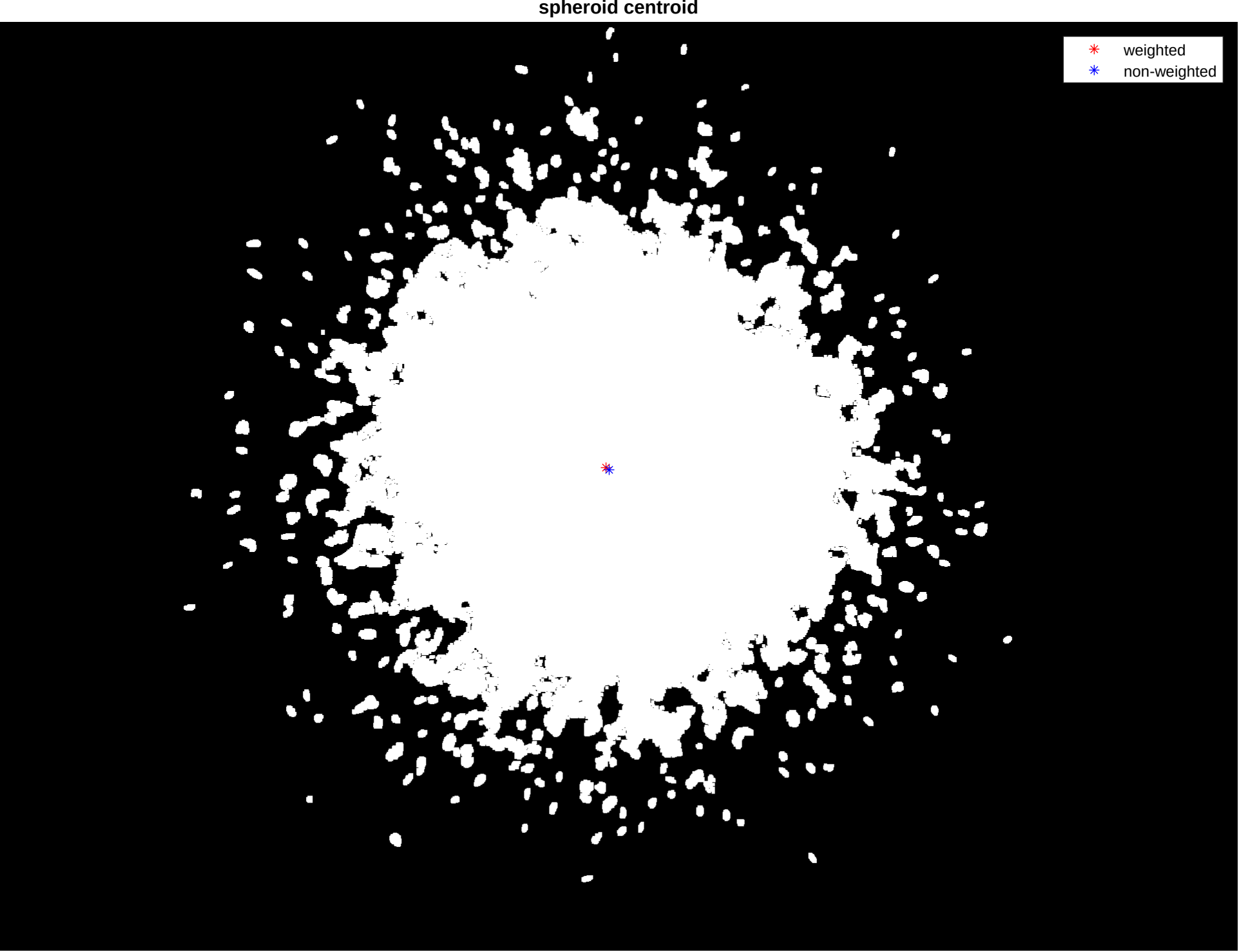
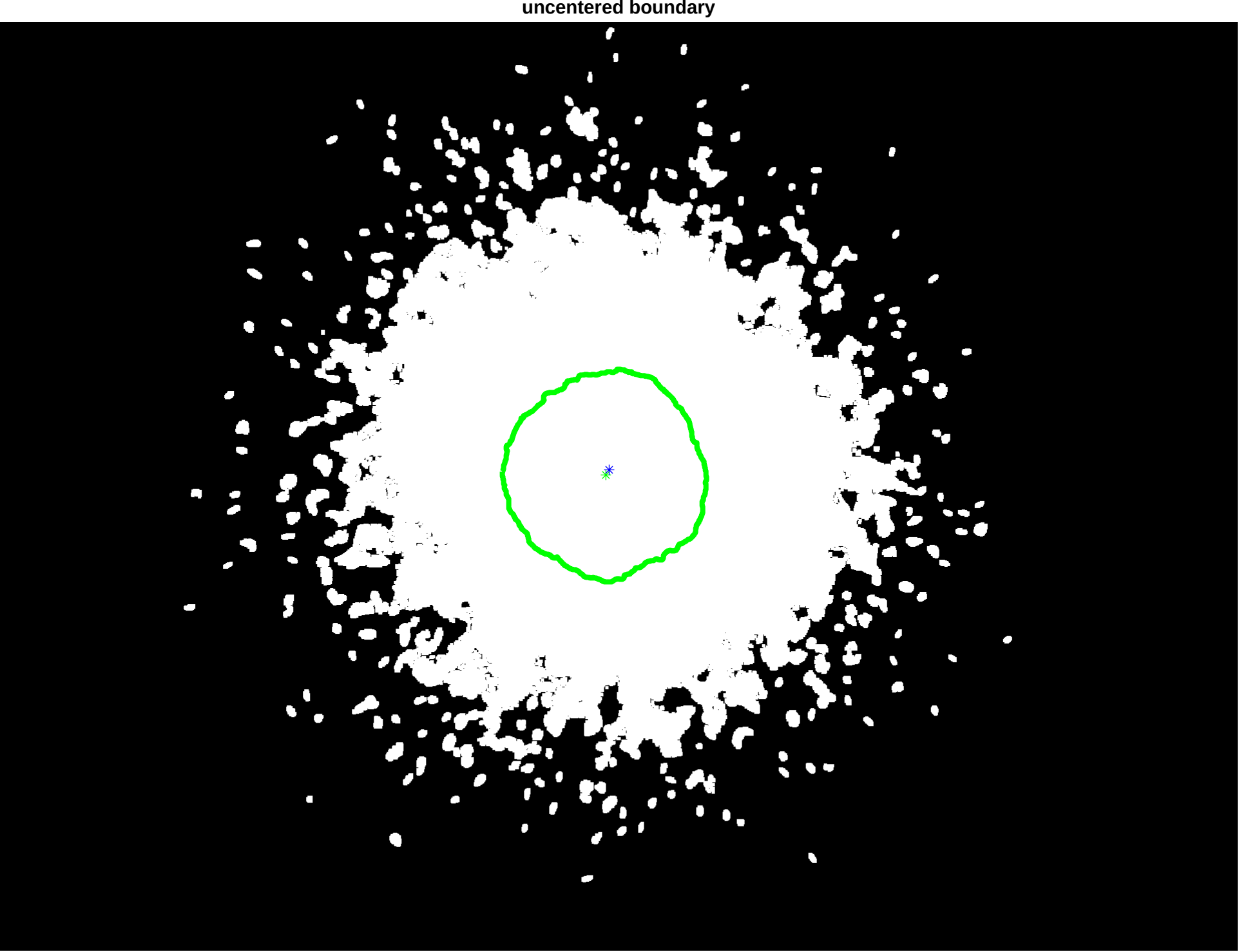
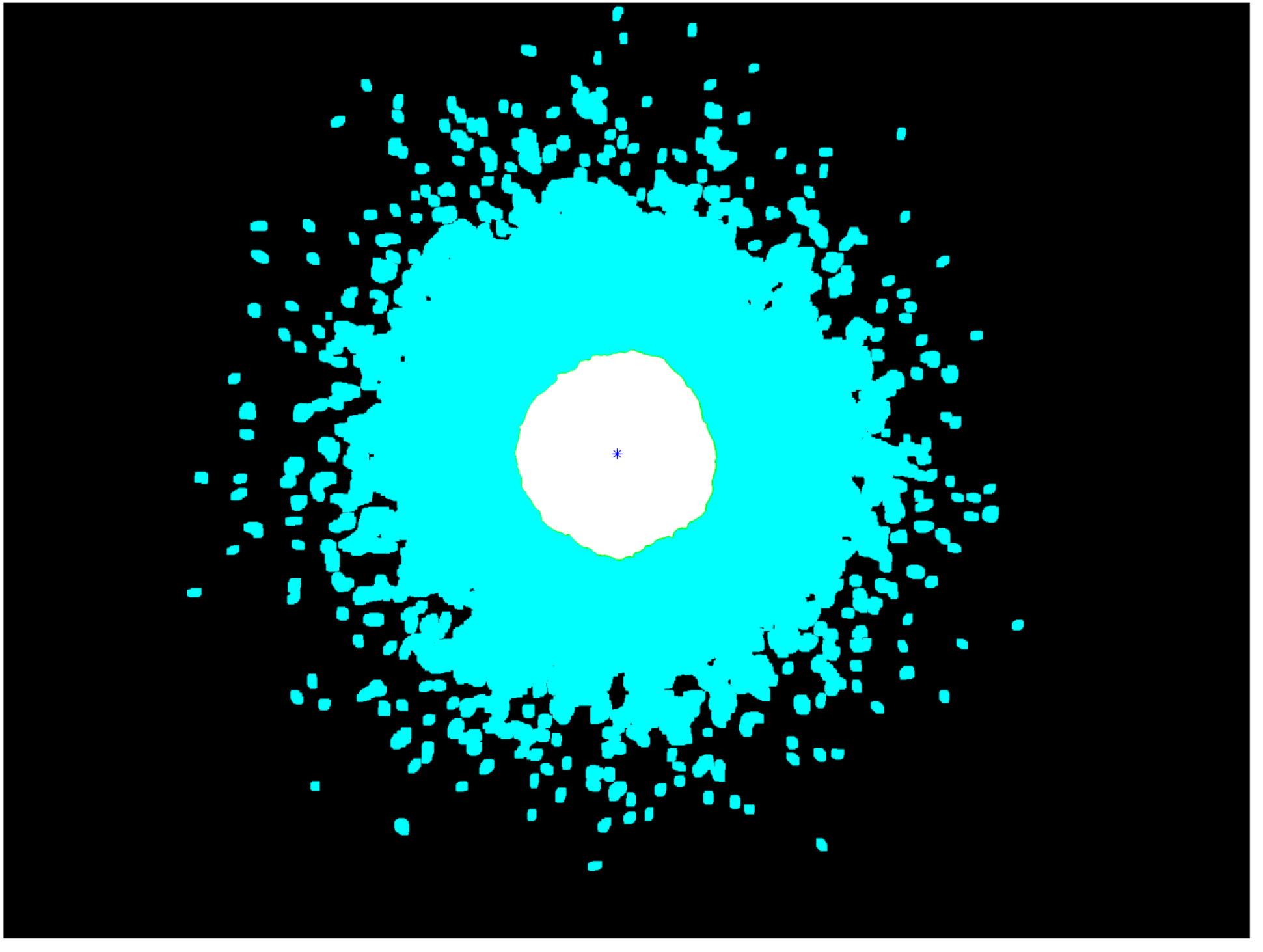



spheroid centroid
weighted
non-weighted

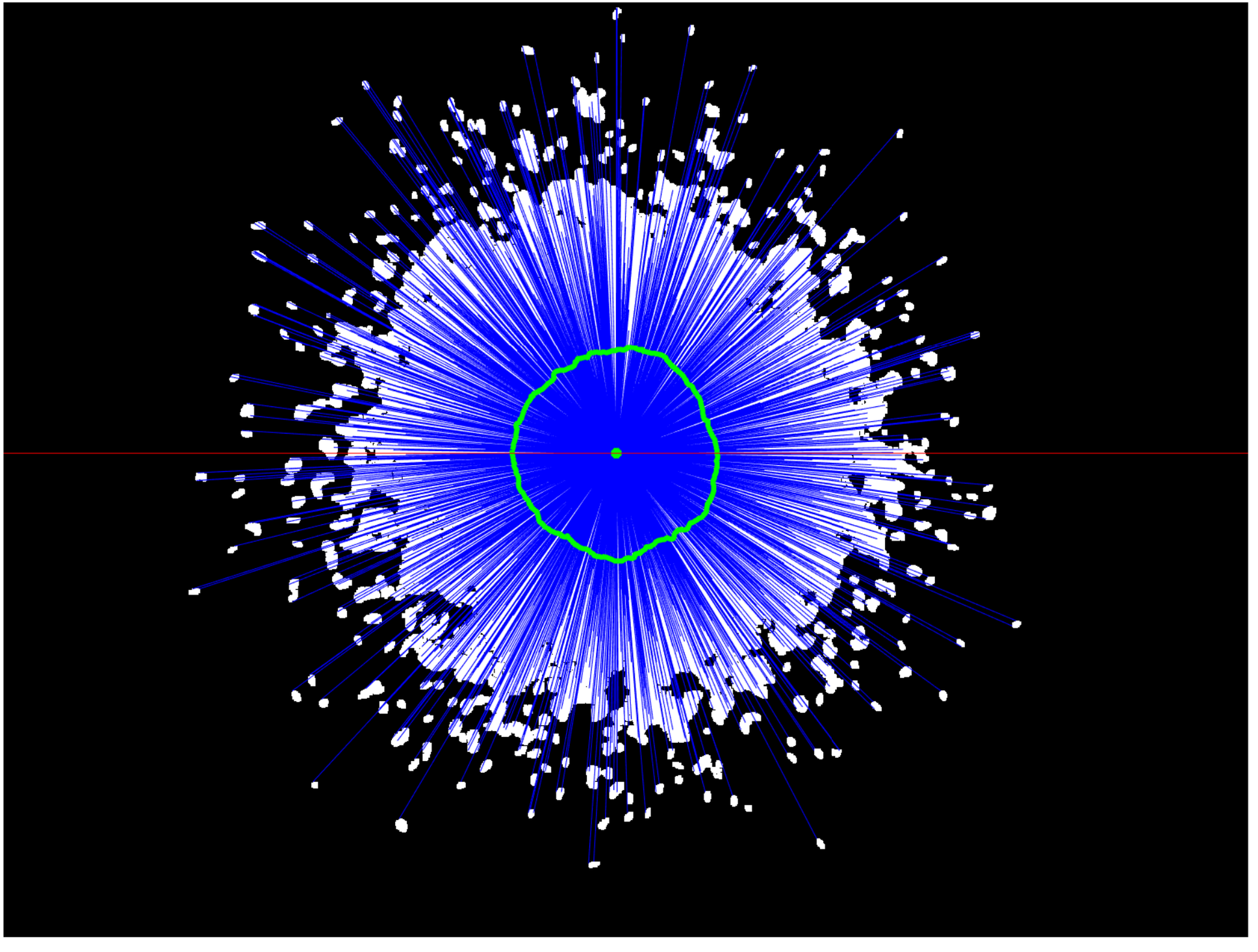

spheroid centroid
weighted
non-weighted

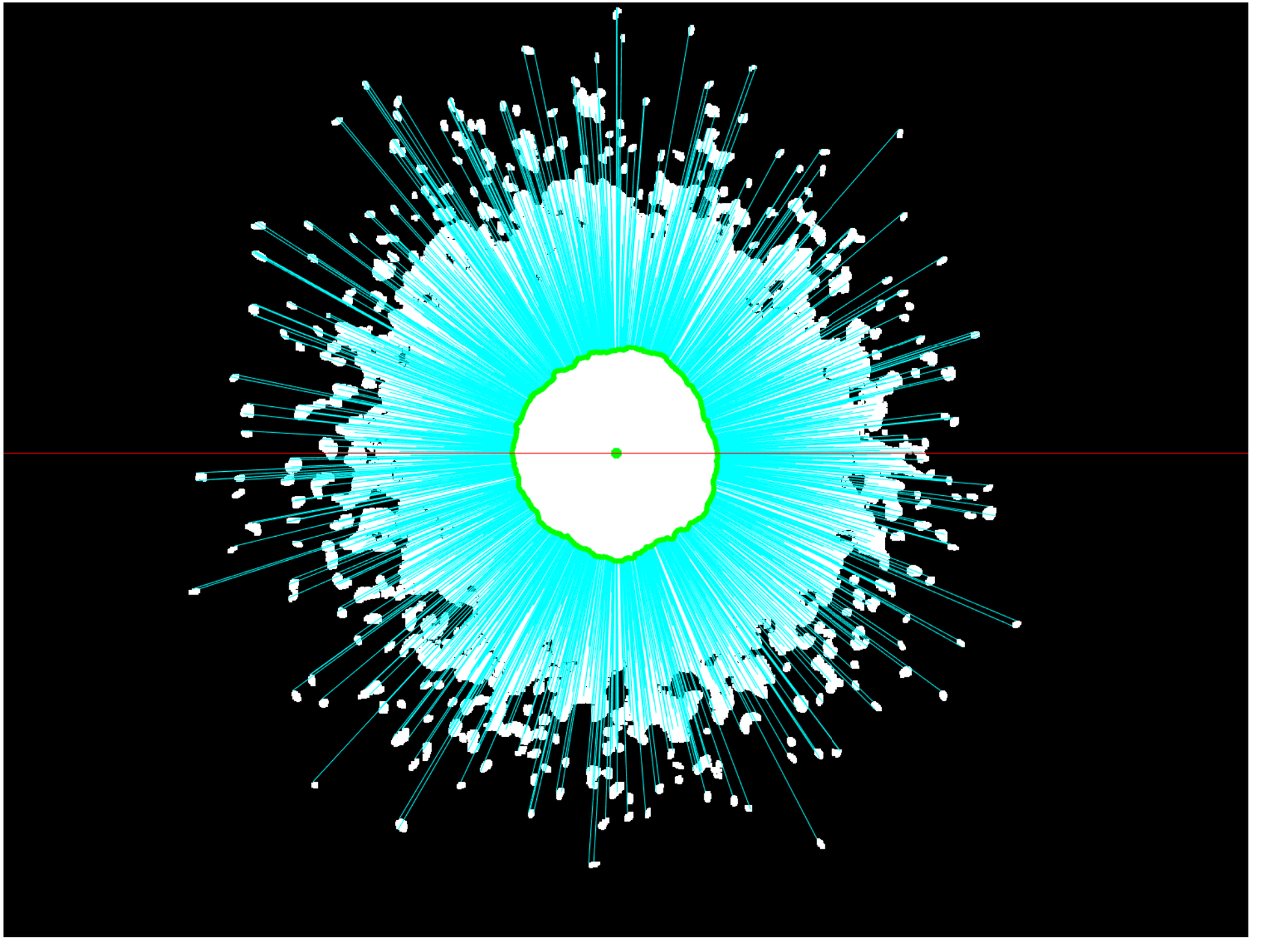

uncentered boundary

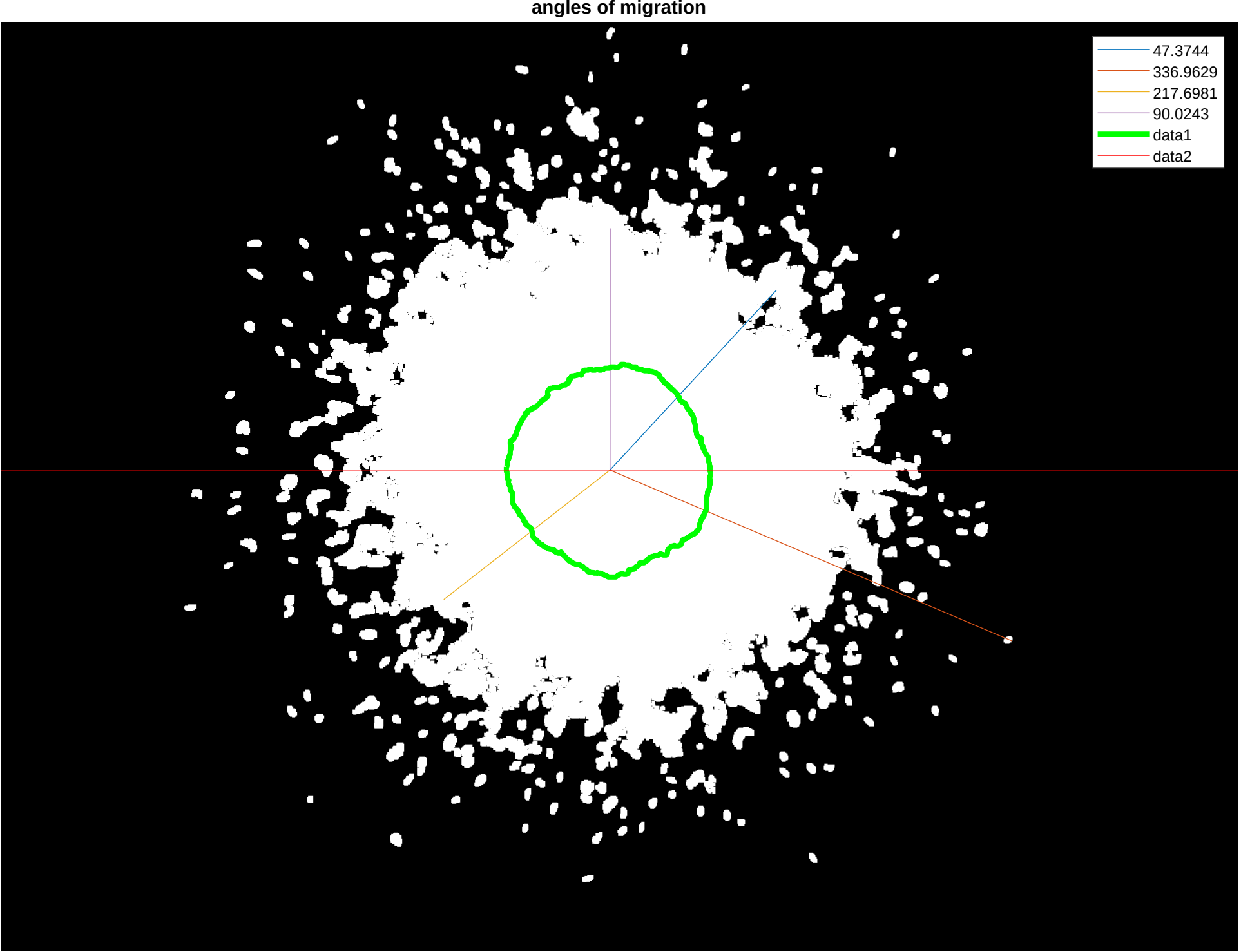
centered boundary and outer pixels

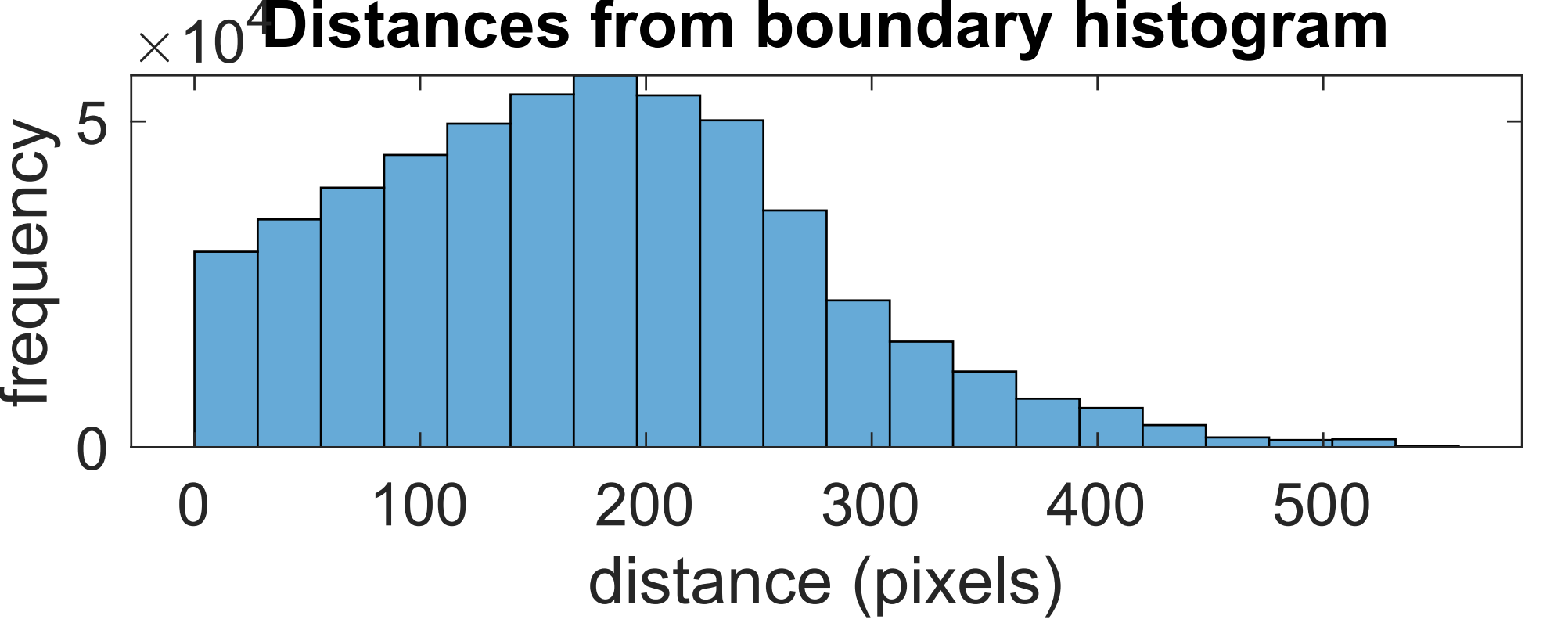


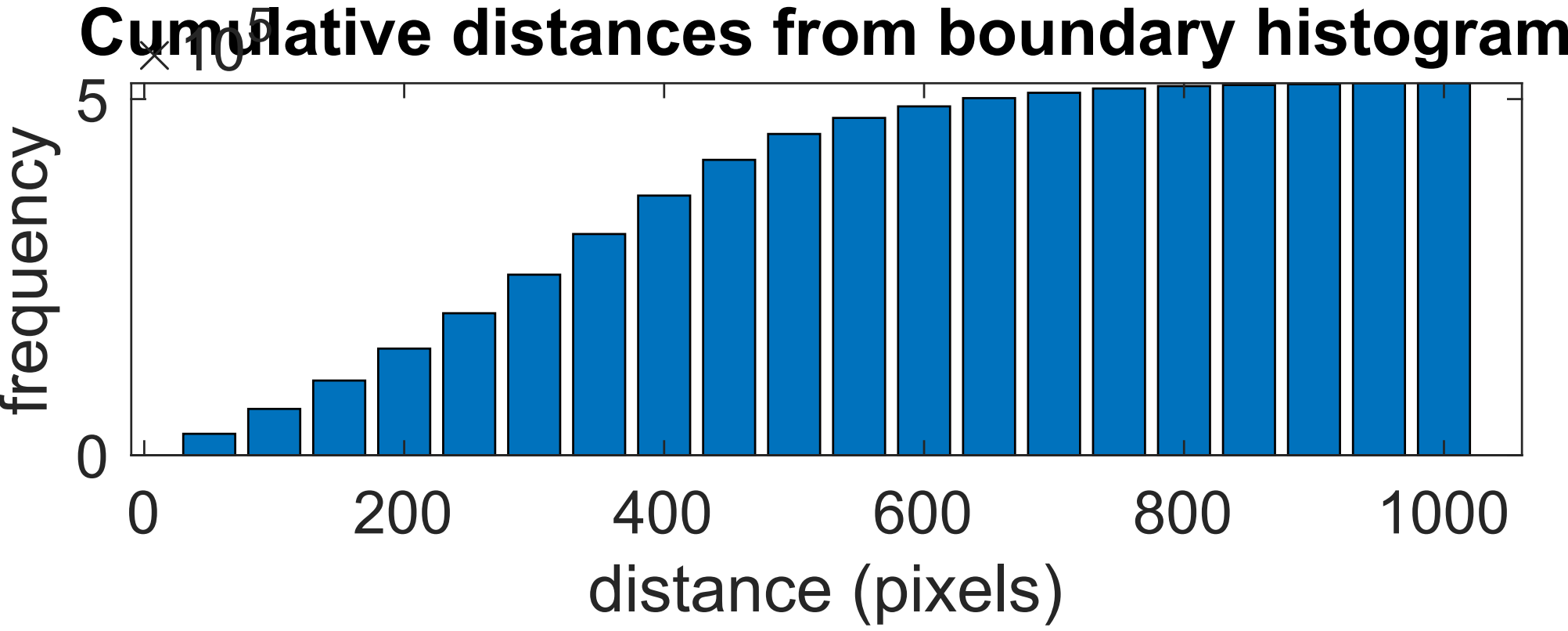
distances from center

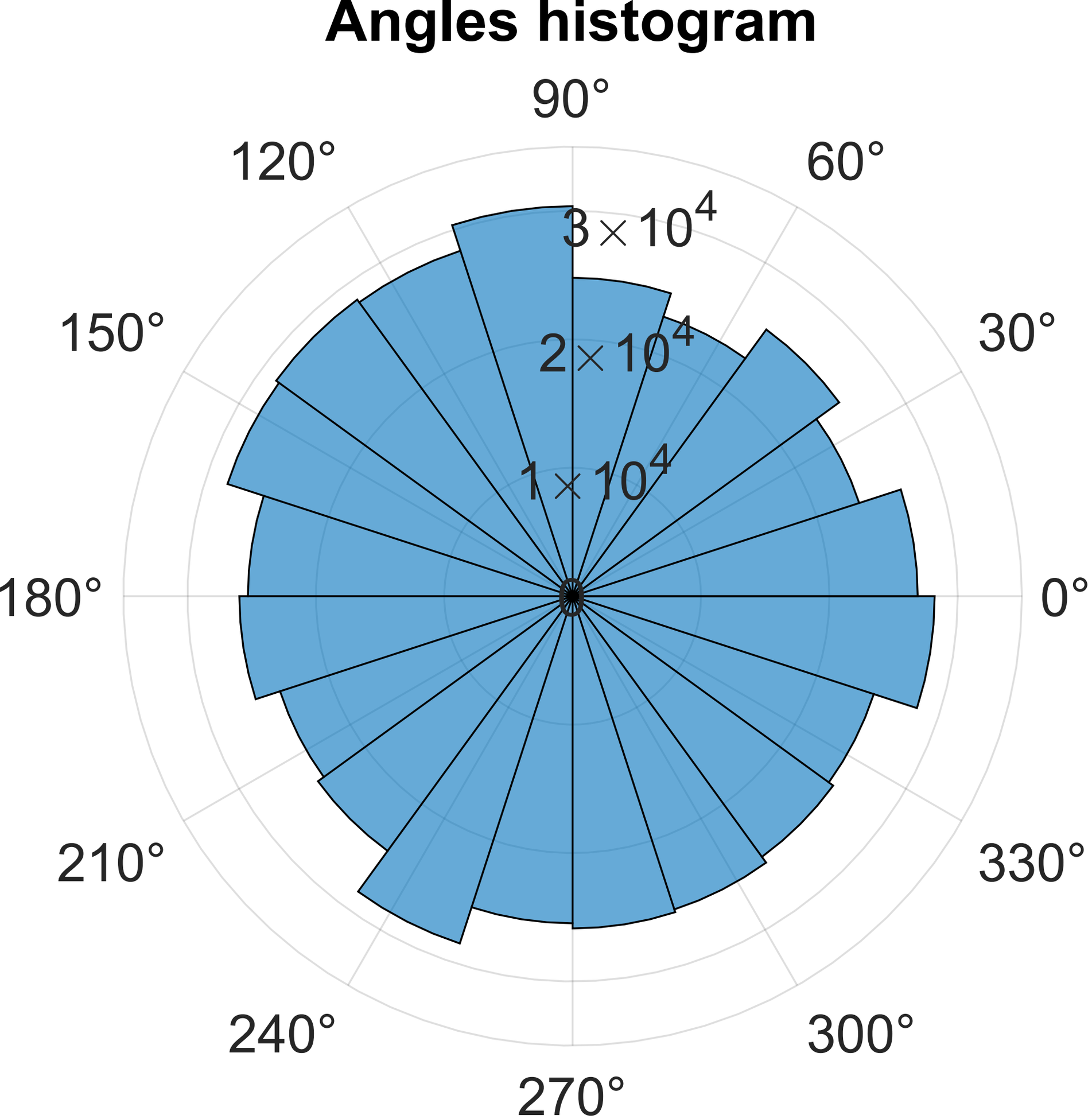


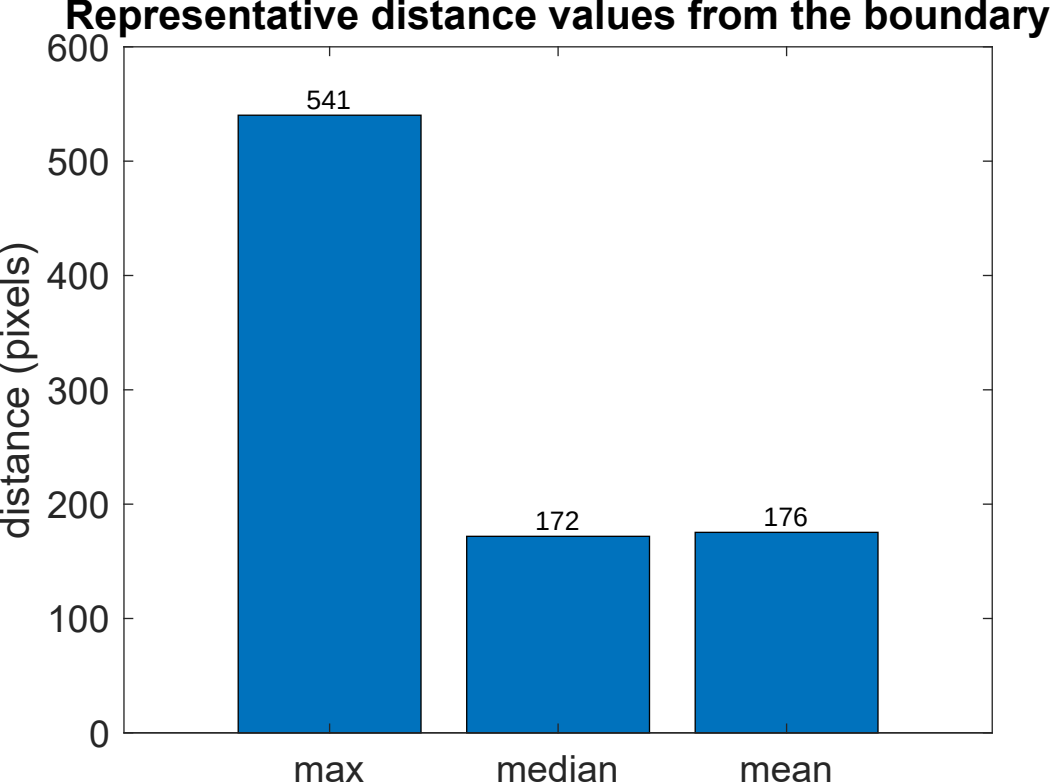

distances from boundary


angles of migration
47.3744
336.9629
217.6981
90.0243
data1
data2

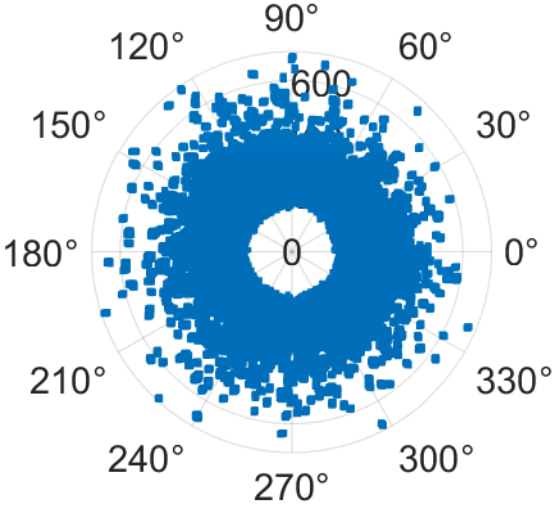

Distances from boundary histogram
×10^4
5
0
frequency
0
100
200
300
400
500
distance (pixels)


Cumulative distances from boundary histogram
×10^5
5
0
frequency
0
200
400
600
800
1000
distance (pixels)

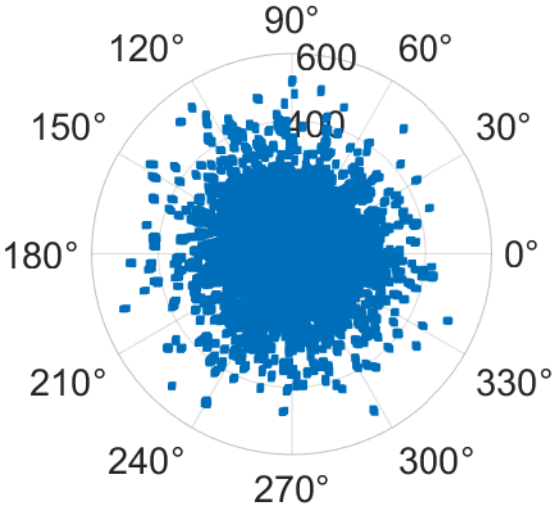

Angles histogram
90°
120°
60°
150°
30°
180°
0°
210°
330°
240°
300°
270°
3×10^4
2×10^4
1×10^4

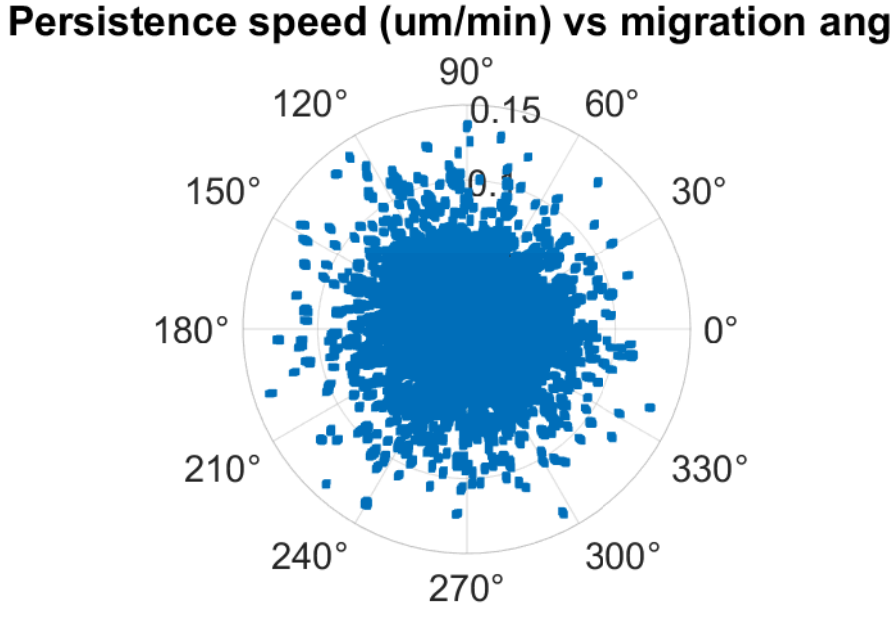

Representative distance values from the boundary
distance (pixels)
600
500
400
300
200
100
0
541
172
176
max
median
mean

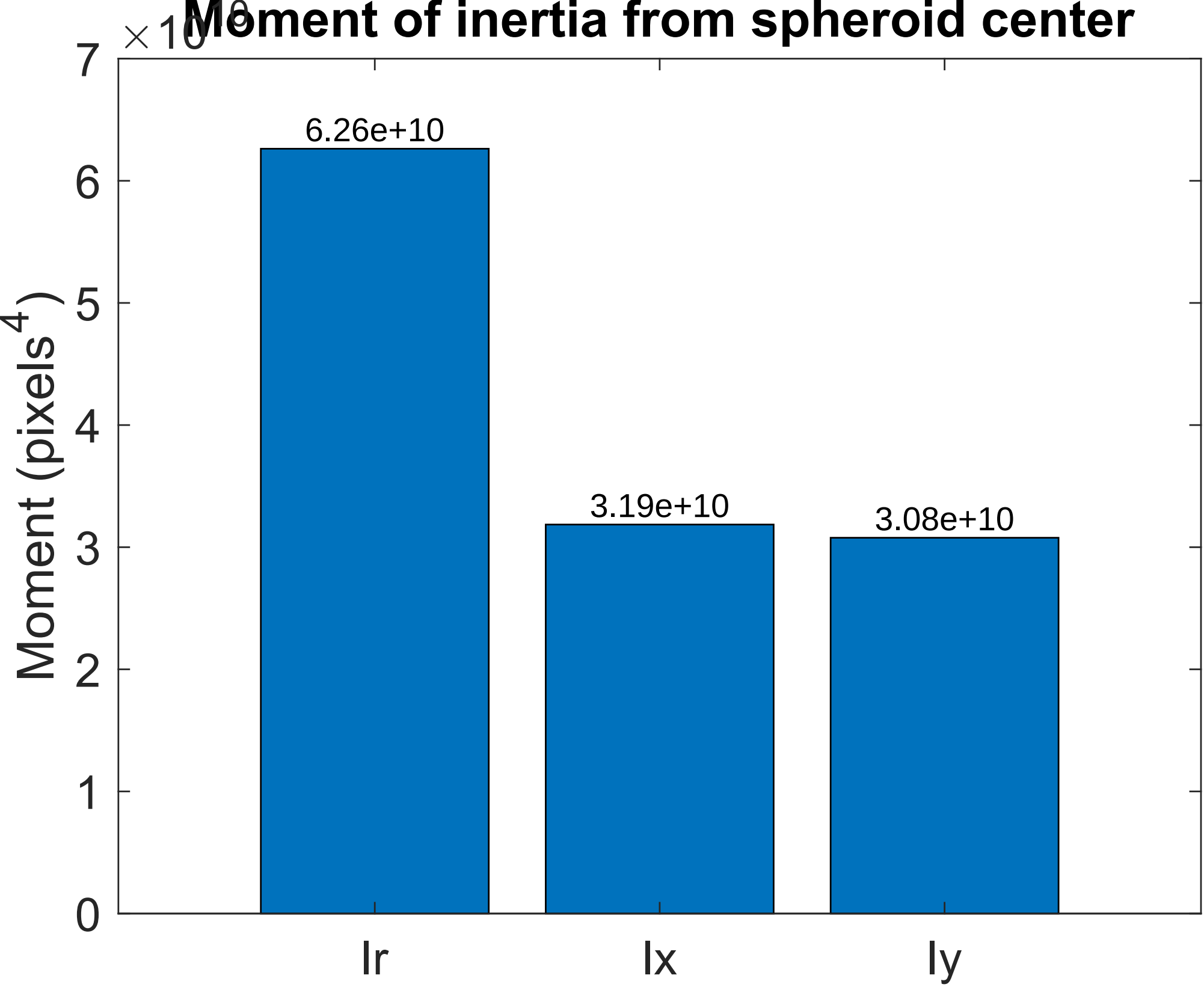
Distances from spheroid center (pixels) vs migration angle

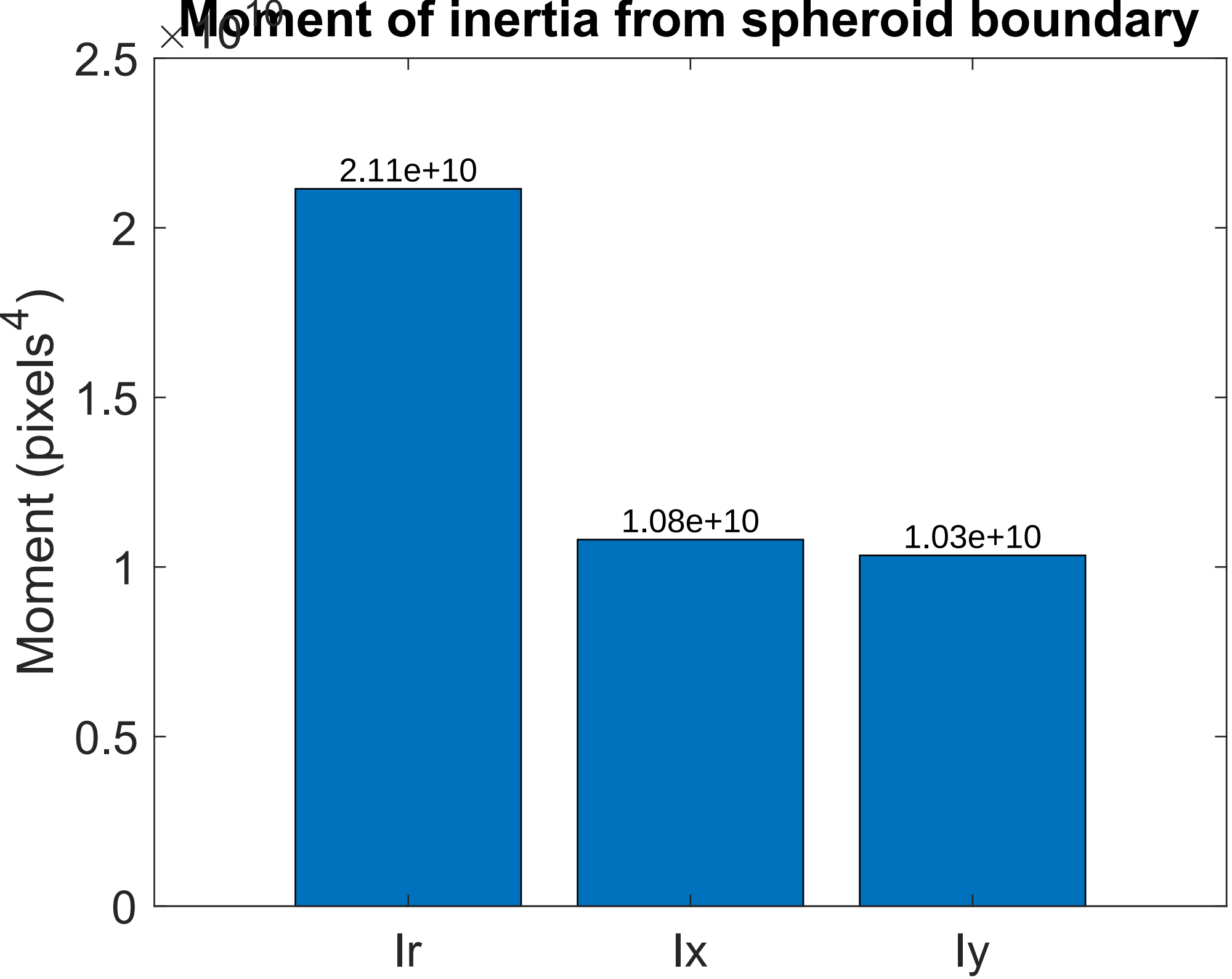


Distances from spheroid boundary (pixels) vs migration angle




Persistence speed (um/min) vs migration angle
90°
120°
0.15
60°
150°
30°
180°
0°
210°
330°
240°
300°
270°


Moment of inertia from spheroid center
×10^10
7
6
5
4
3
2
1
0
Moment (pixels^4)
6.26e+10
3.19e+10
3.08e+10
Ir
Ix
Iy


Moment of inertia from spheroid boundary
×10^10
2.5
2
1.5
1
0.5
0
Moment (pixels^4)
2.11e+10
1.08e+10
1.03e+10
Ir
Ix
Iy