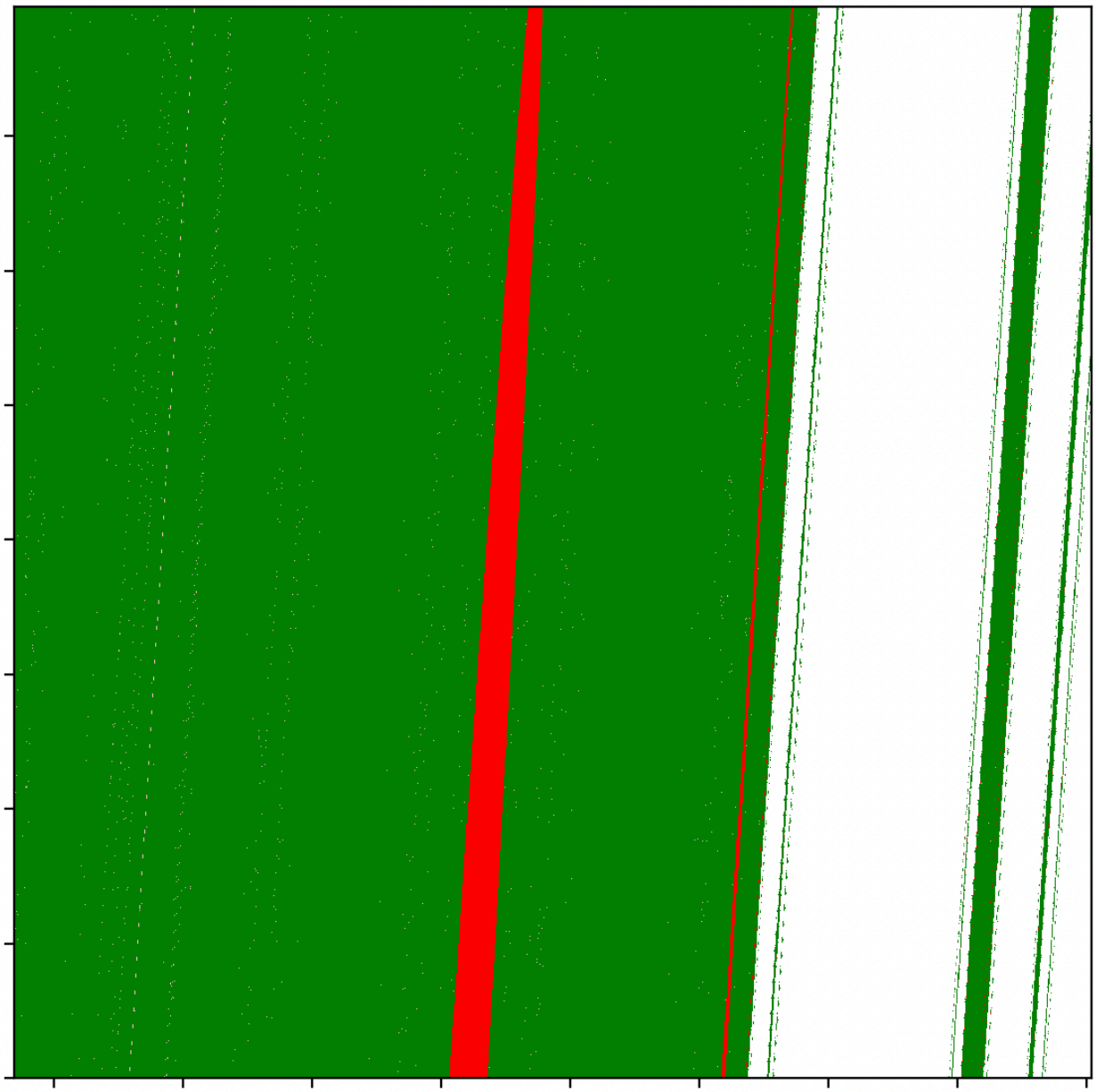
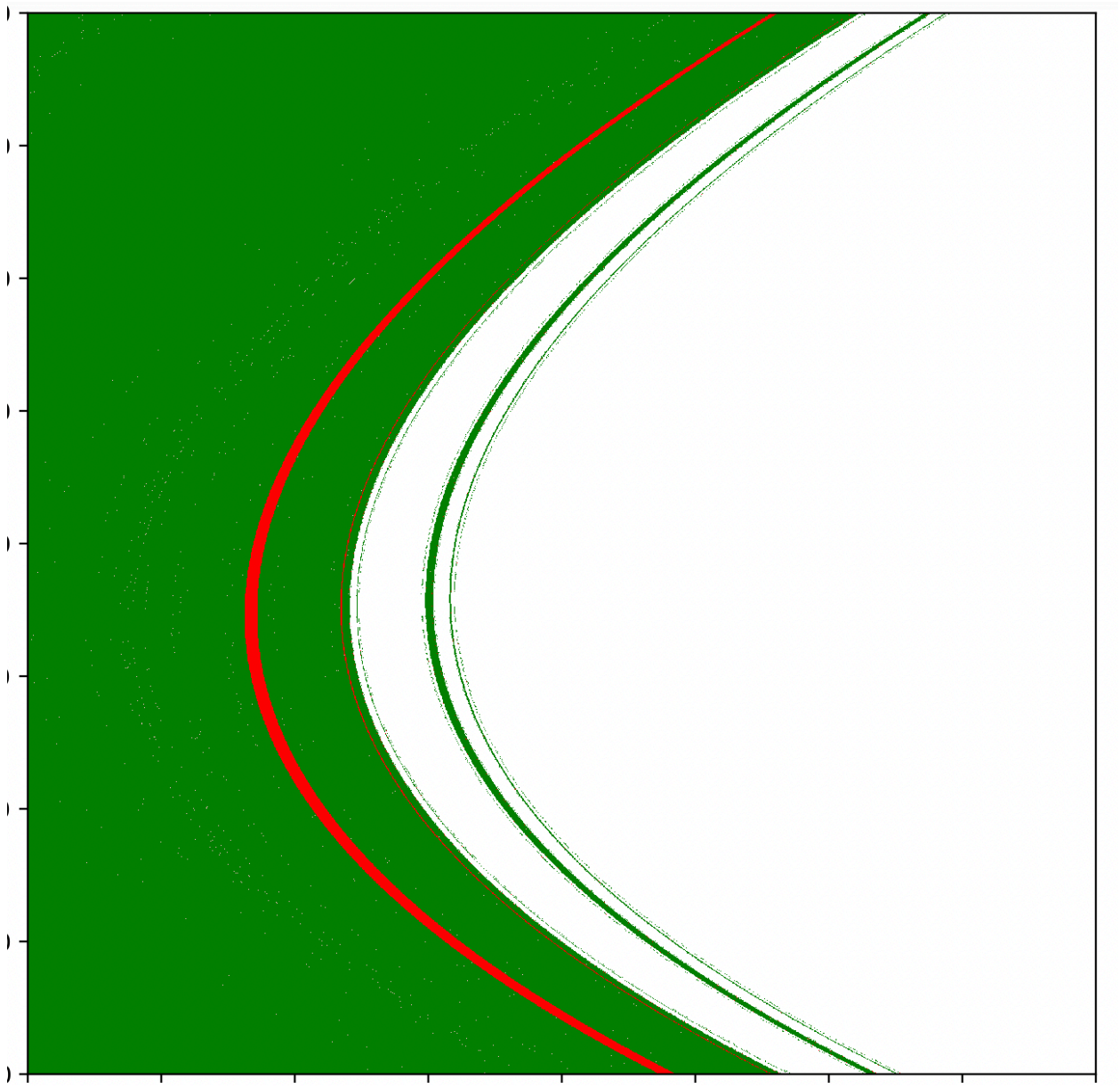
Fixed issue of colors changing: assign each numeric value to period of the orbit, not basin #

Redoing previous images:



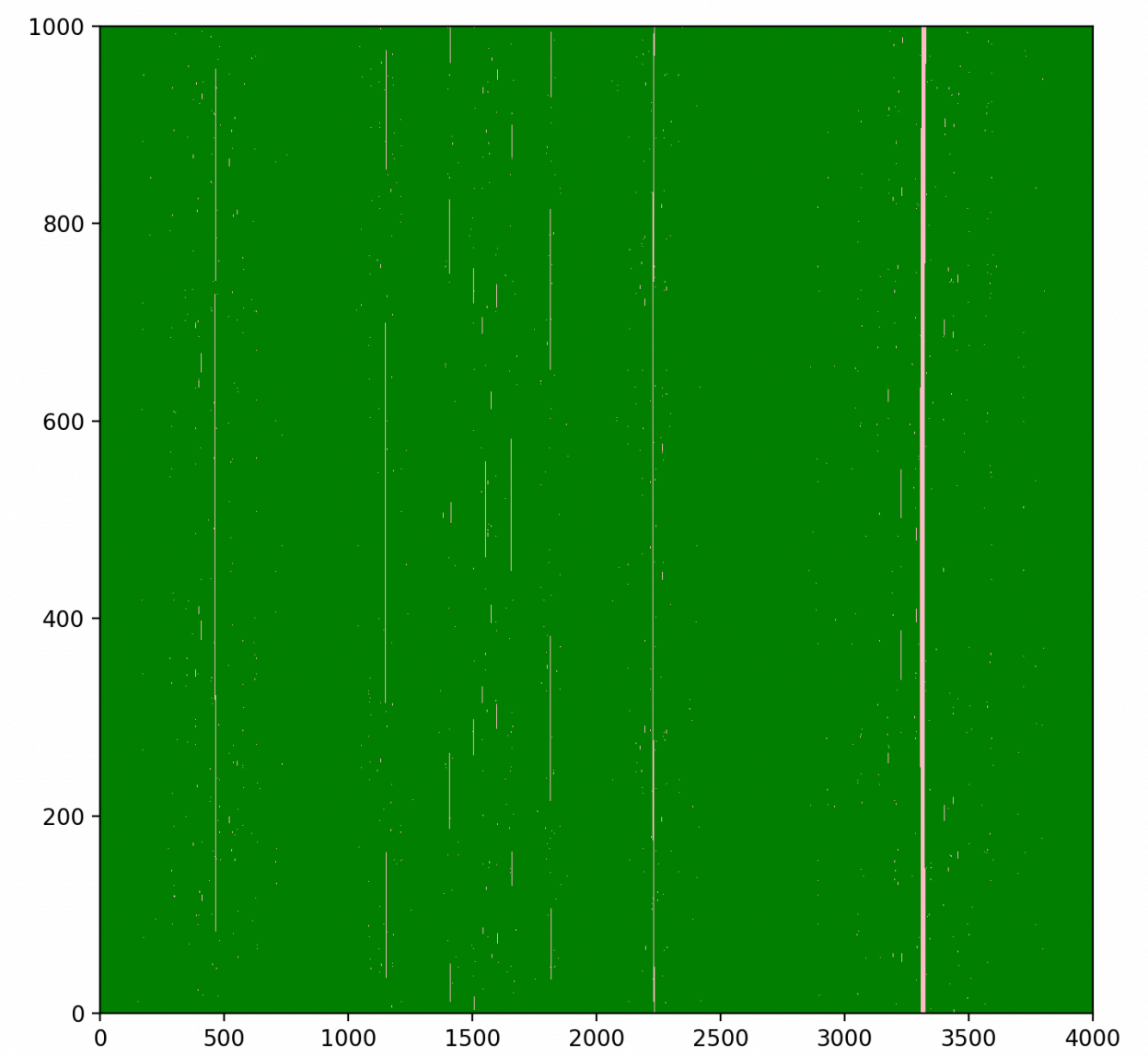
Interestingly, looks like the red (period 5) strip is getting thinner

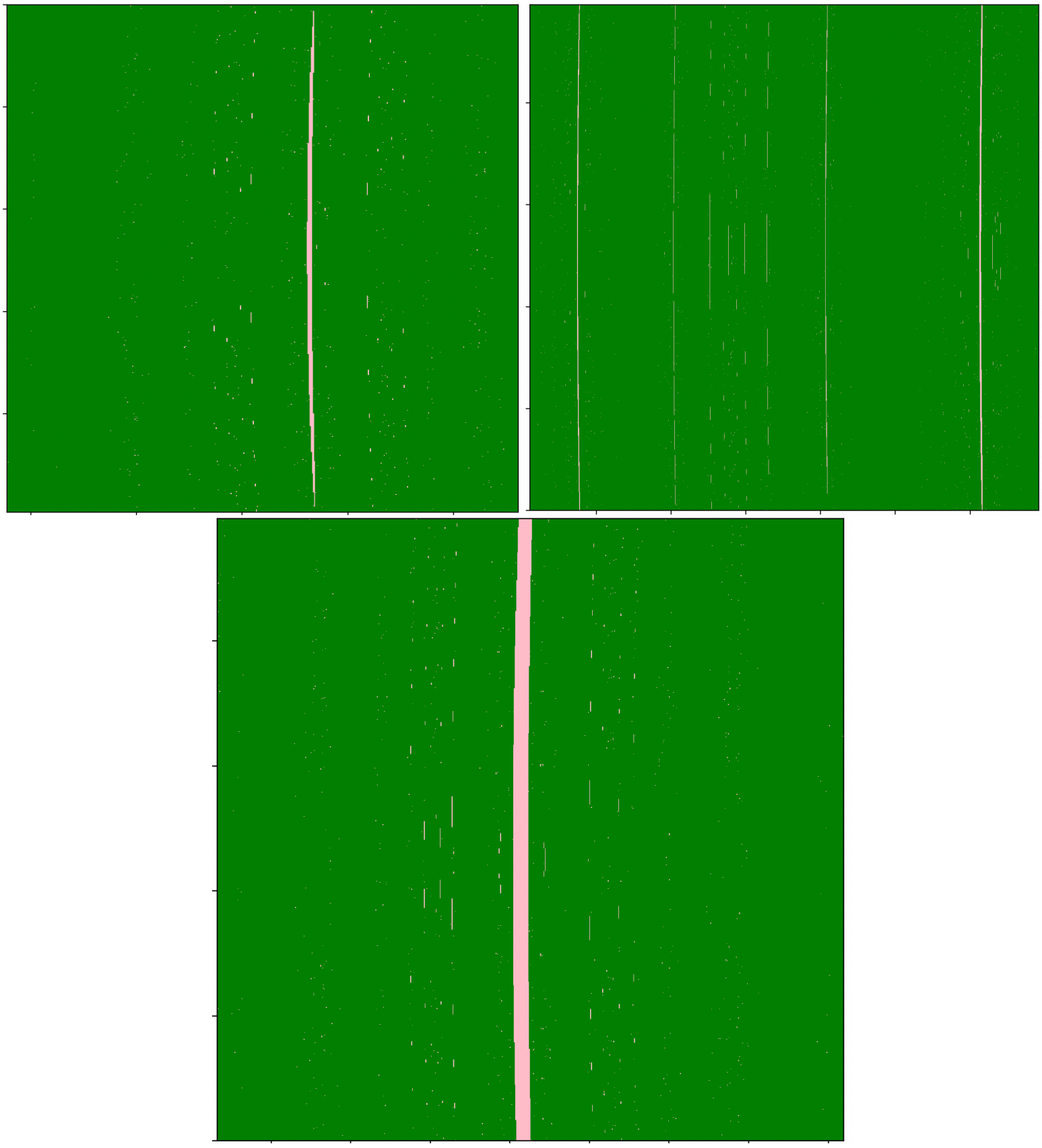


Super-zoomed into edge with divergence points

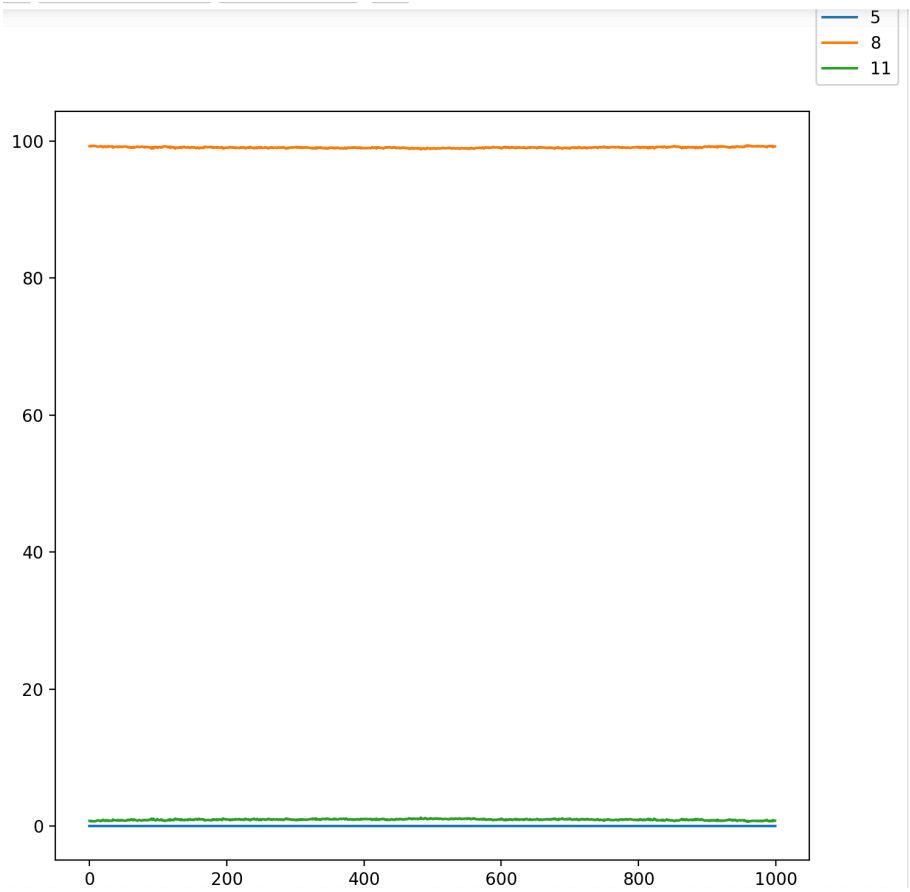
Also spent time calculating the pink (period 11) points inside the ocean of green (per. 8)

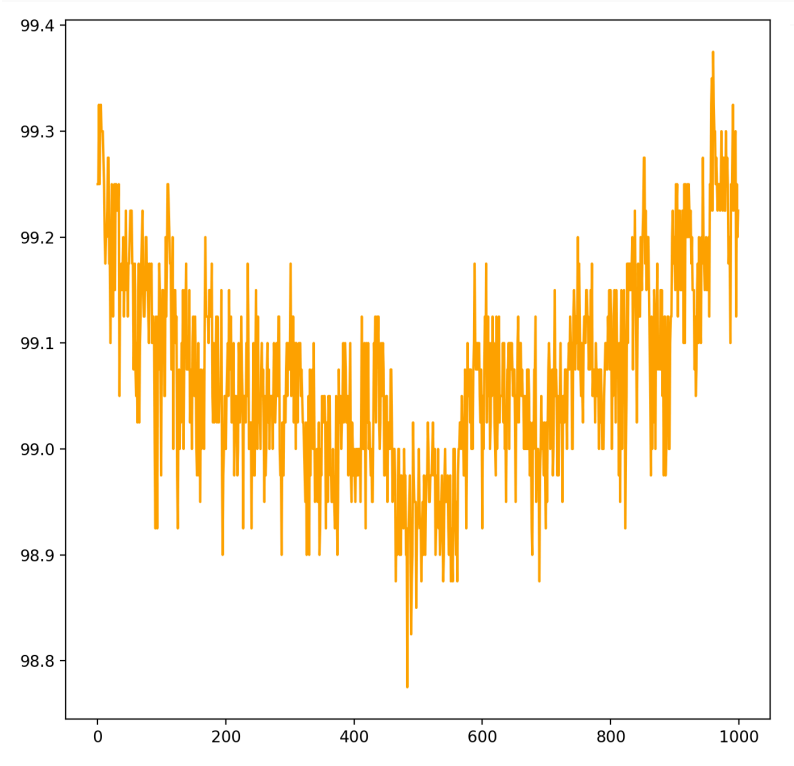
Doesn’t look like a lot of info so let’s zoom into the different vertical strips

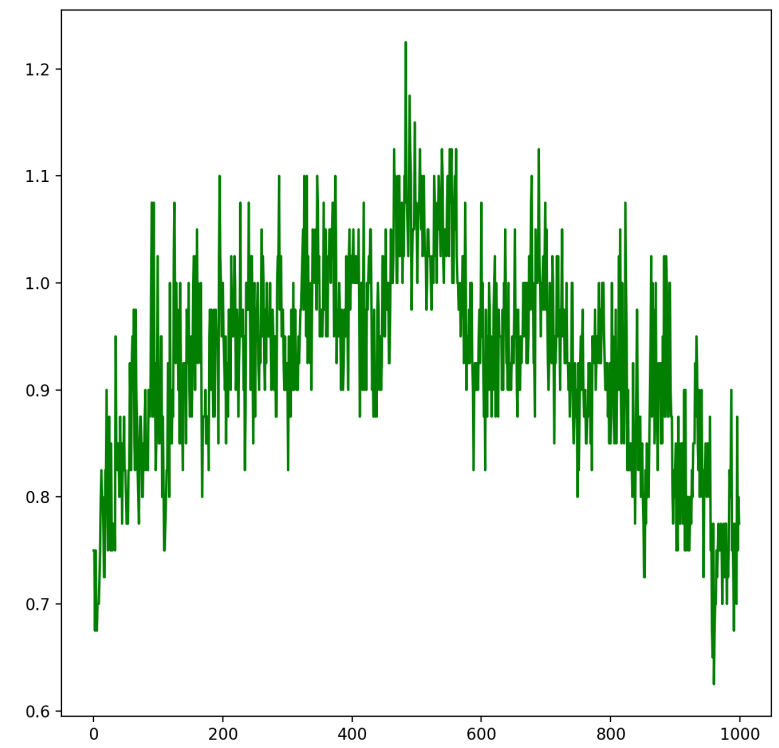




Also calculated probability of 11 - to - 8 percentage

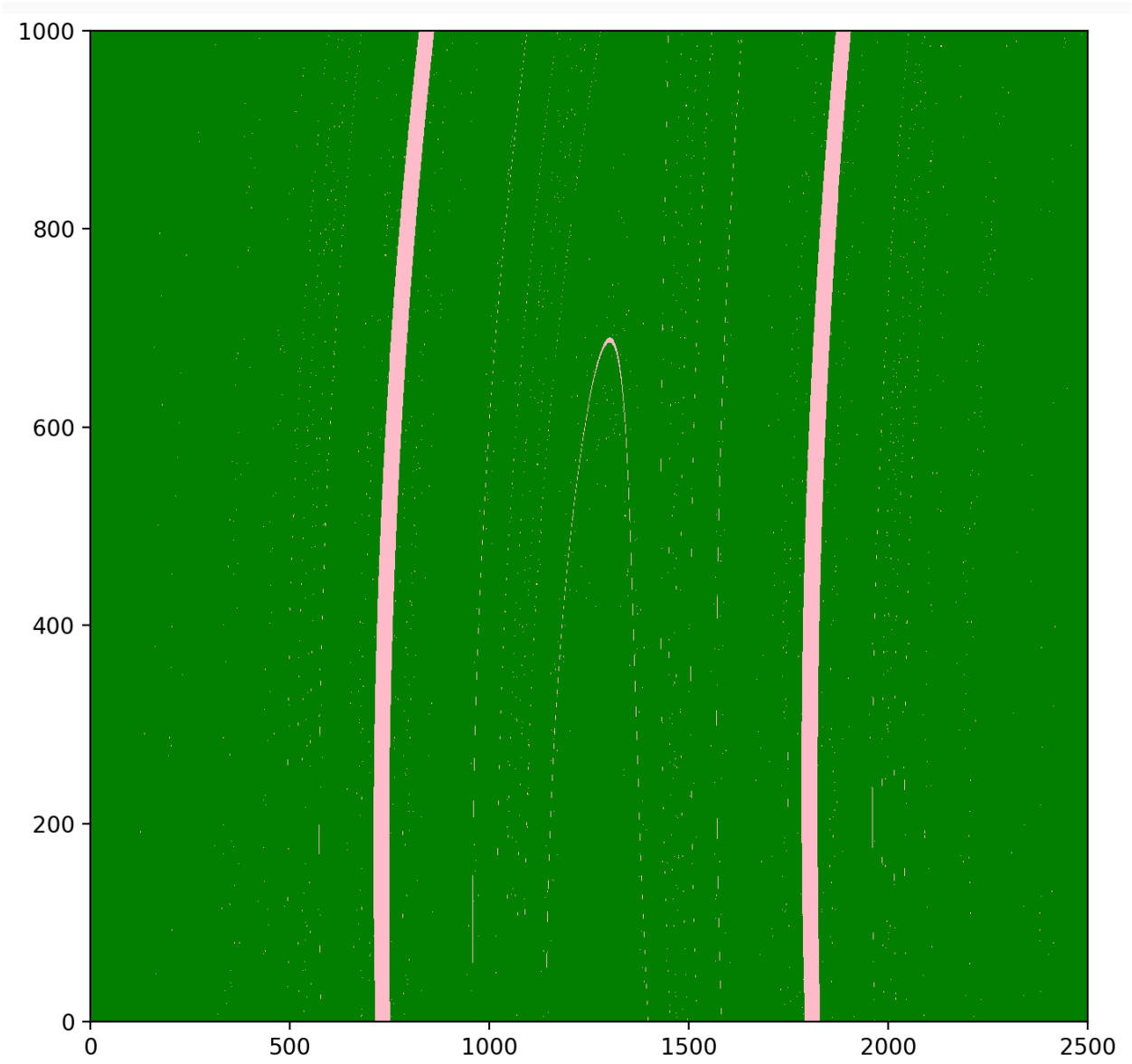




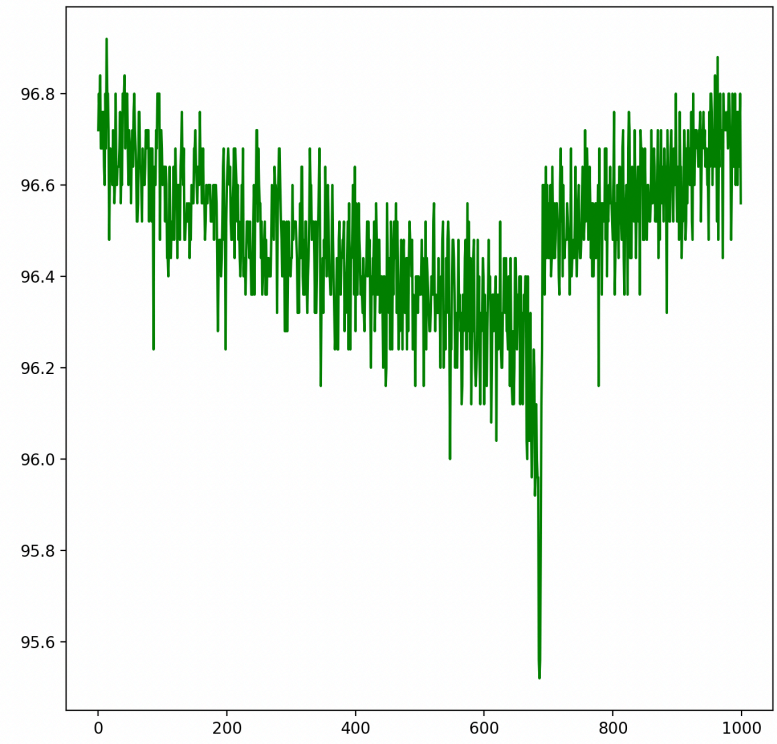


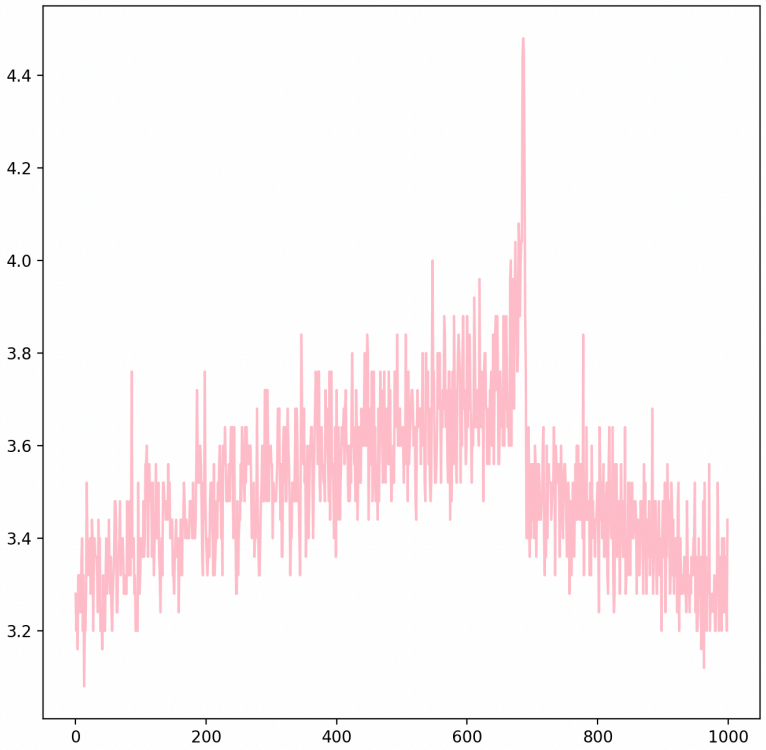
Found interesting dynamic change at x between this parallelogram (y=0 constant):
x_bottom_left =0.738513439884581
x_bottom_right = 0.7387115686484647

x_top_left =0.7413734916322118
x_top_right = 0.7415680180549339



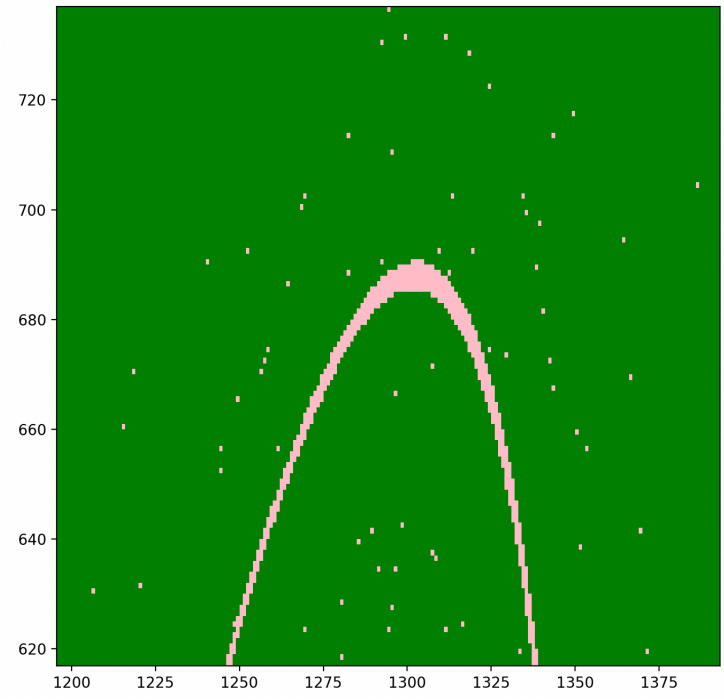
Probability Diagrams:

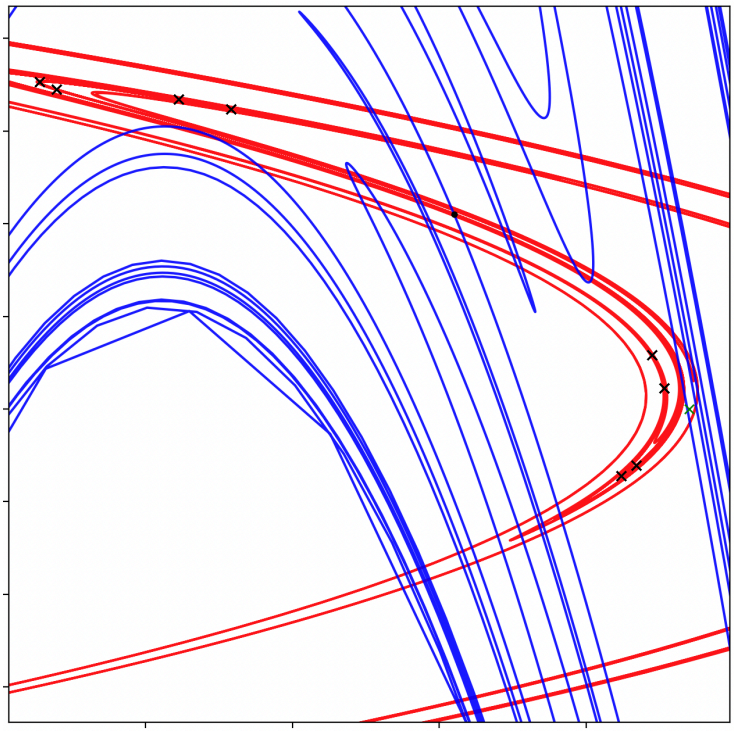


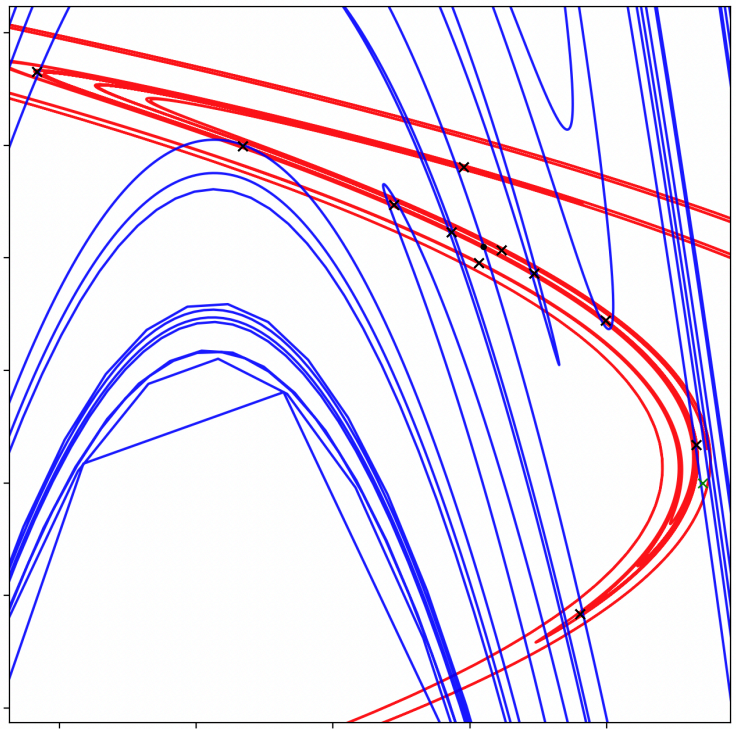


i = 688 is same on spike as tip of pink strip

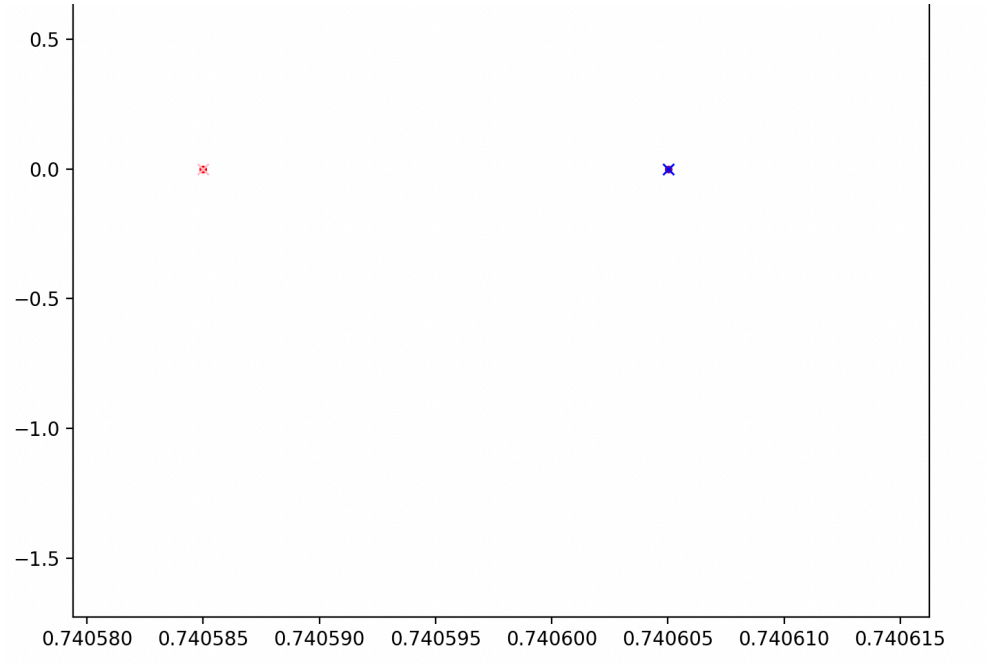
Checked: Directly under/above pink, in green, goes to period 8 while in pink -> 11



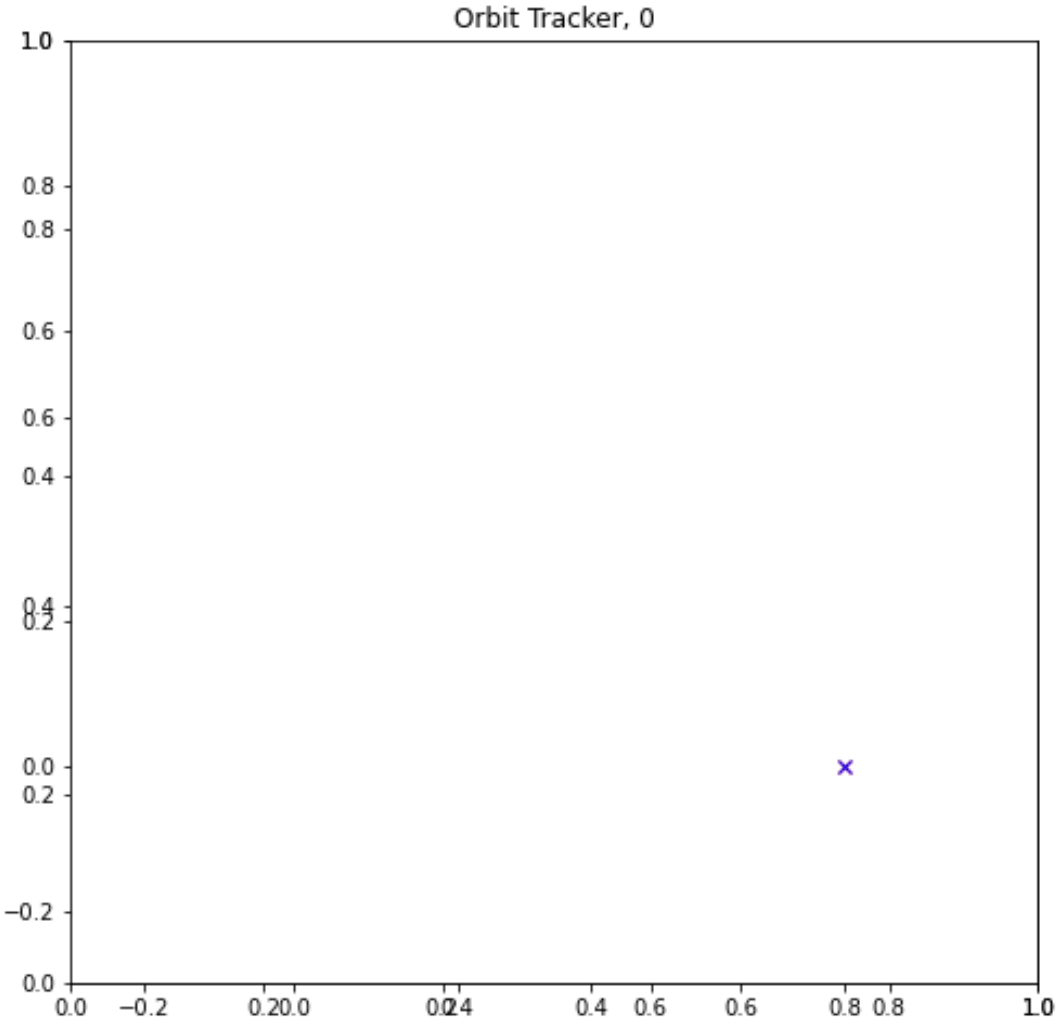


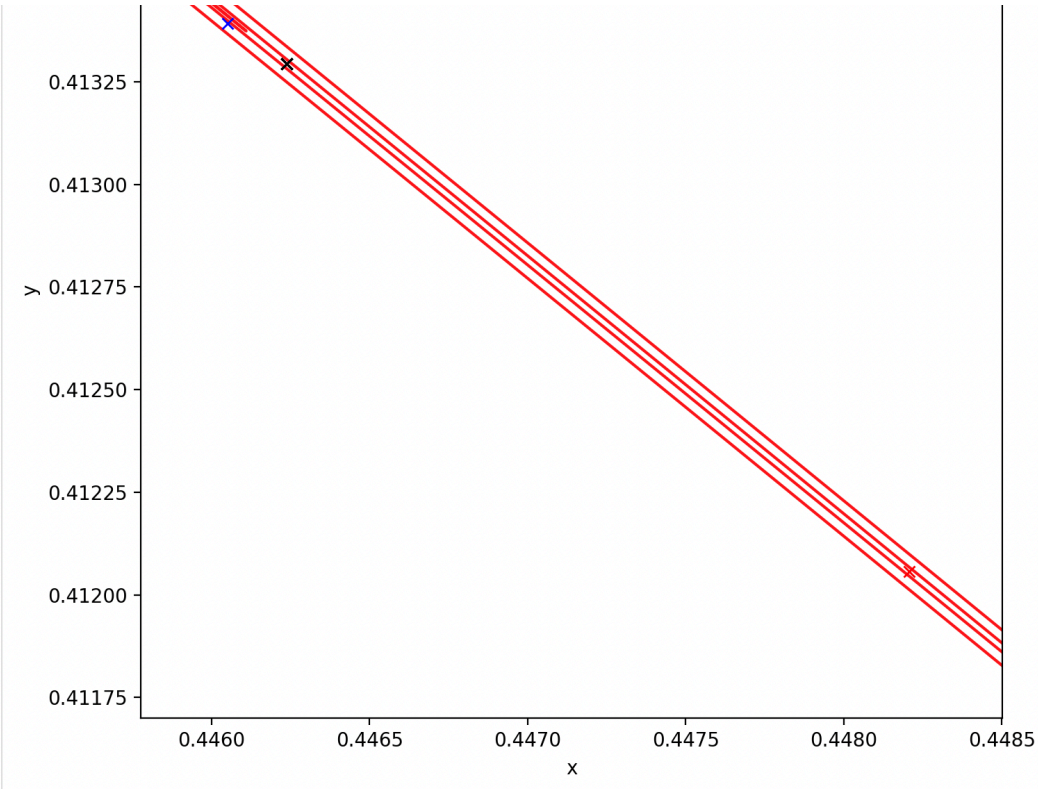


Plan: track evolution of orbits

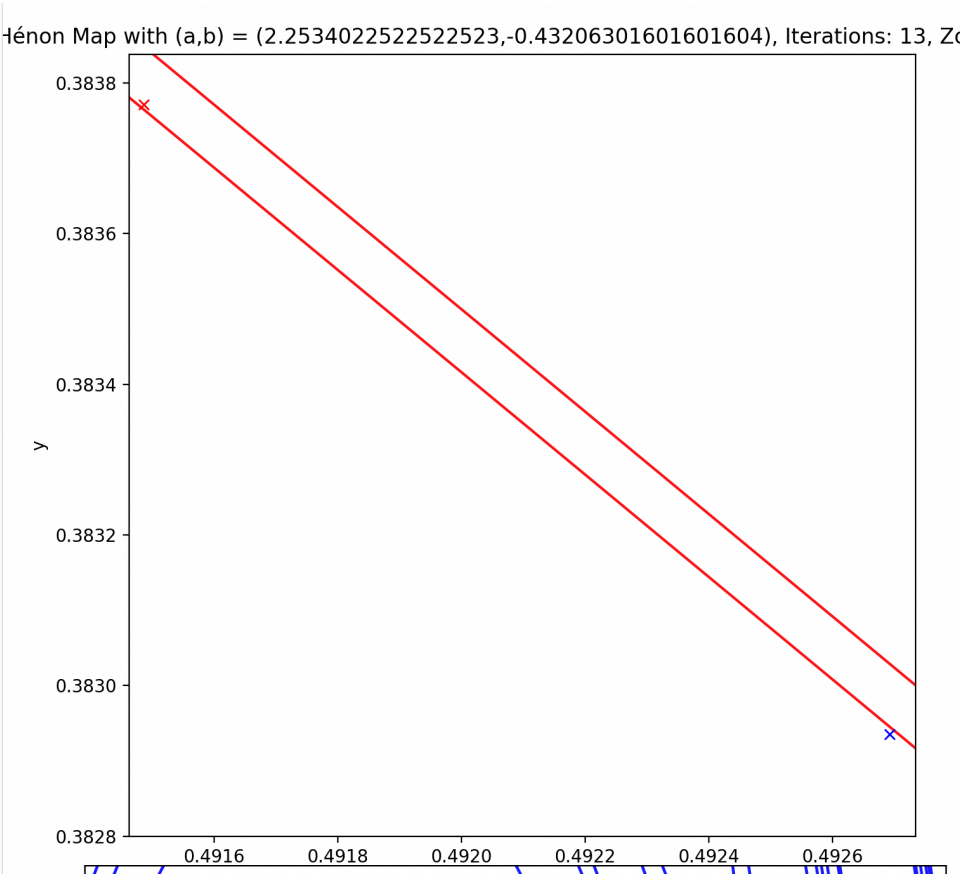


1st observed visual split after 13 iterations

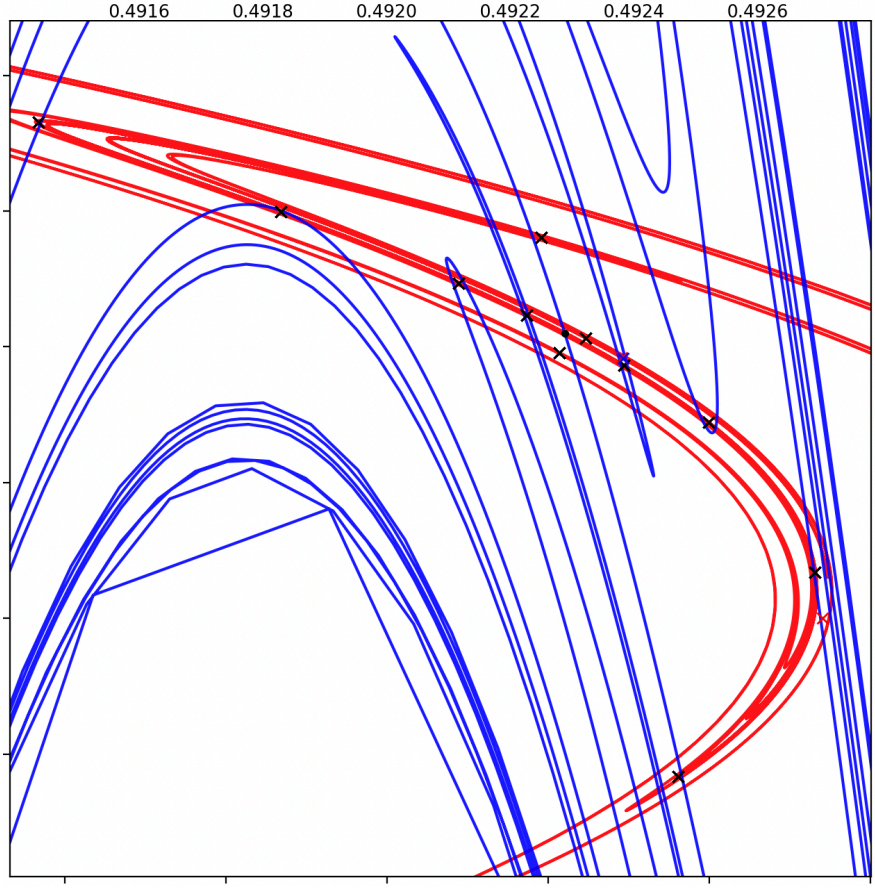

Orbit Tracker, 0
1.0
0.8
0.8
0.6
0.6
0.4
0.4
0.2
0.0
0.2
−0.2
0.0
0.0
−0.2
0.2
0.0
0.4
0.4
0.6
0.6
0.8
0.8
1.0

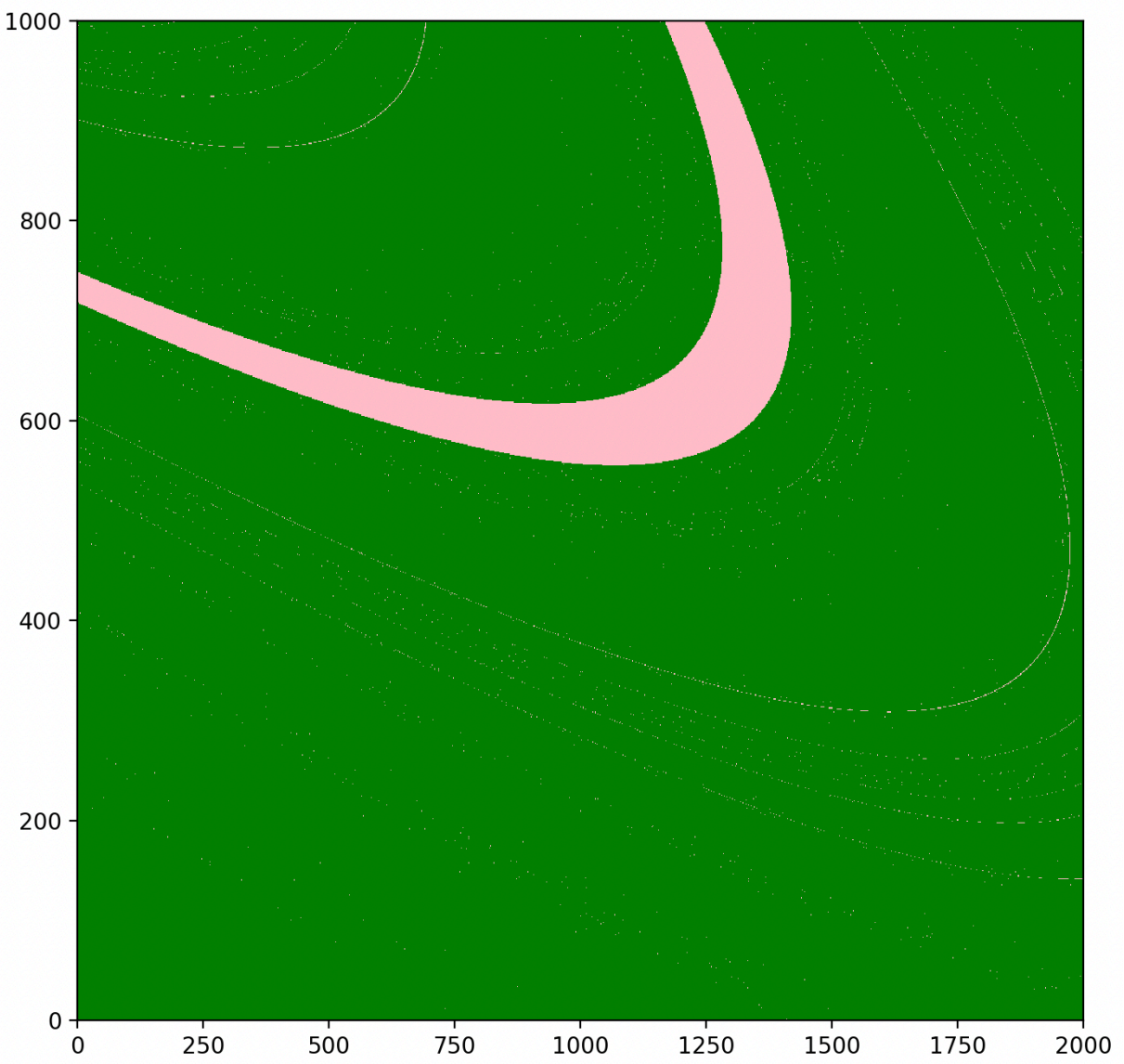

0.41325
0.41300
0.41275
0.41250
0.41225
0.41200
0.41175
y
0.4460
0.4465
0.4470
0.4475
0.4480
0.4485
x

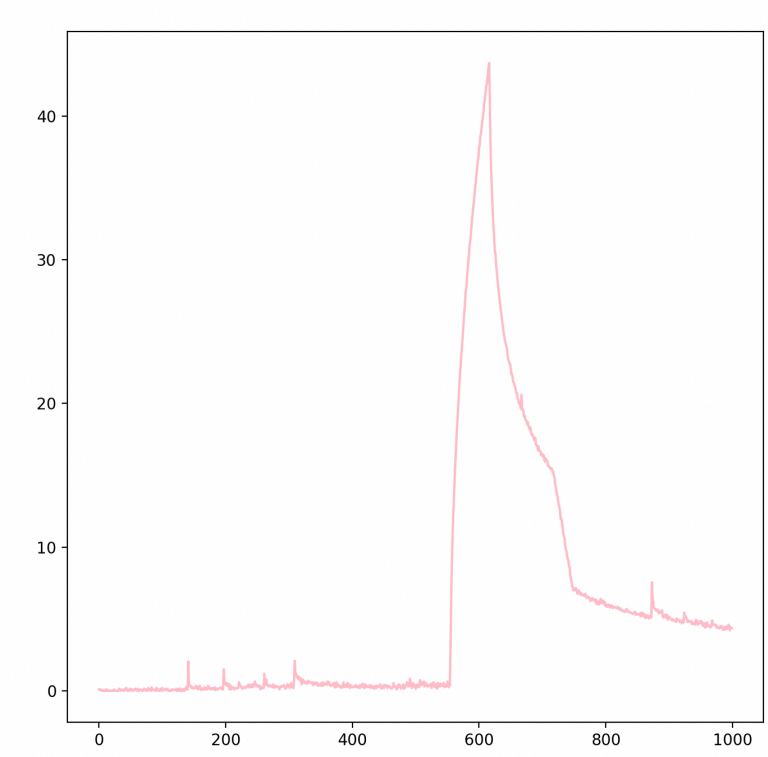
First instance of dis-alignment after 5 iterations:



Location:




1000
800
600
400
200
0
0
250
500
750
1000
1250
1500
1750
2000


40
30
20
10
0
0
200
400
600
800
1000