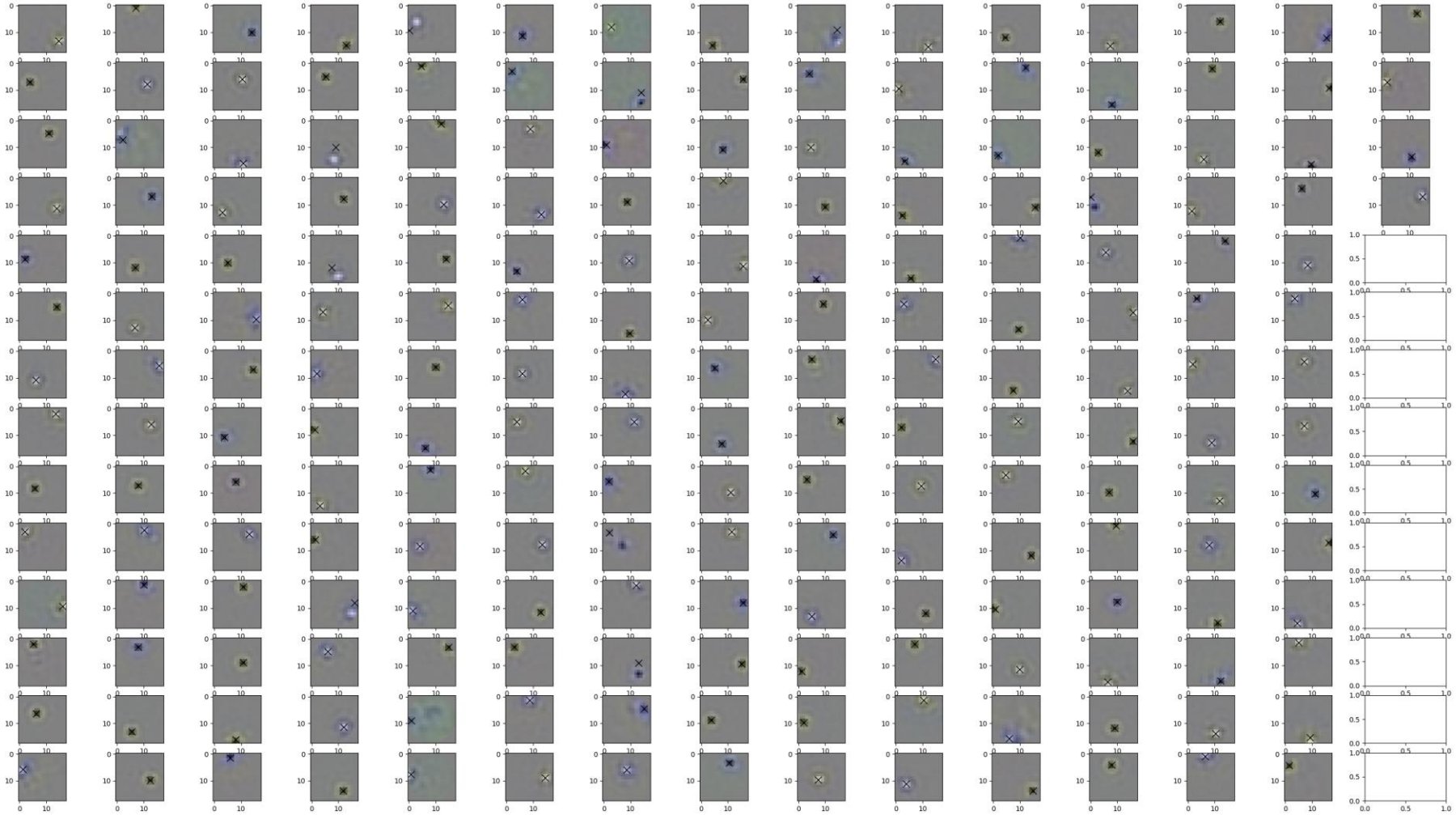
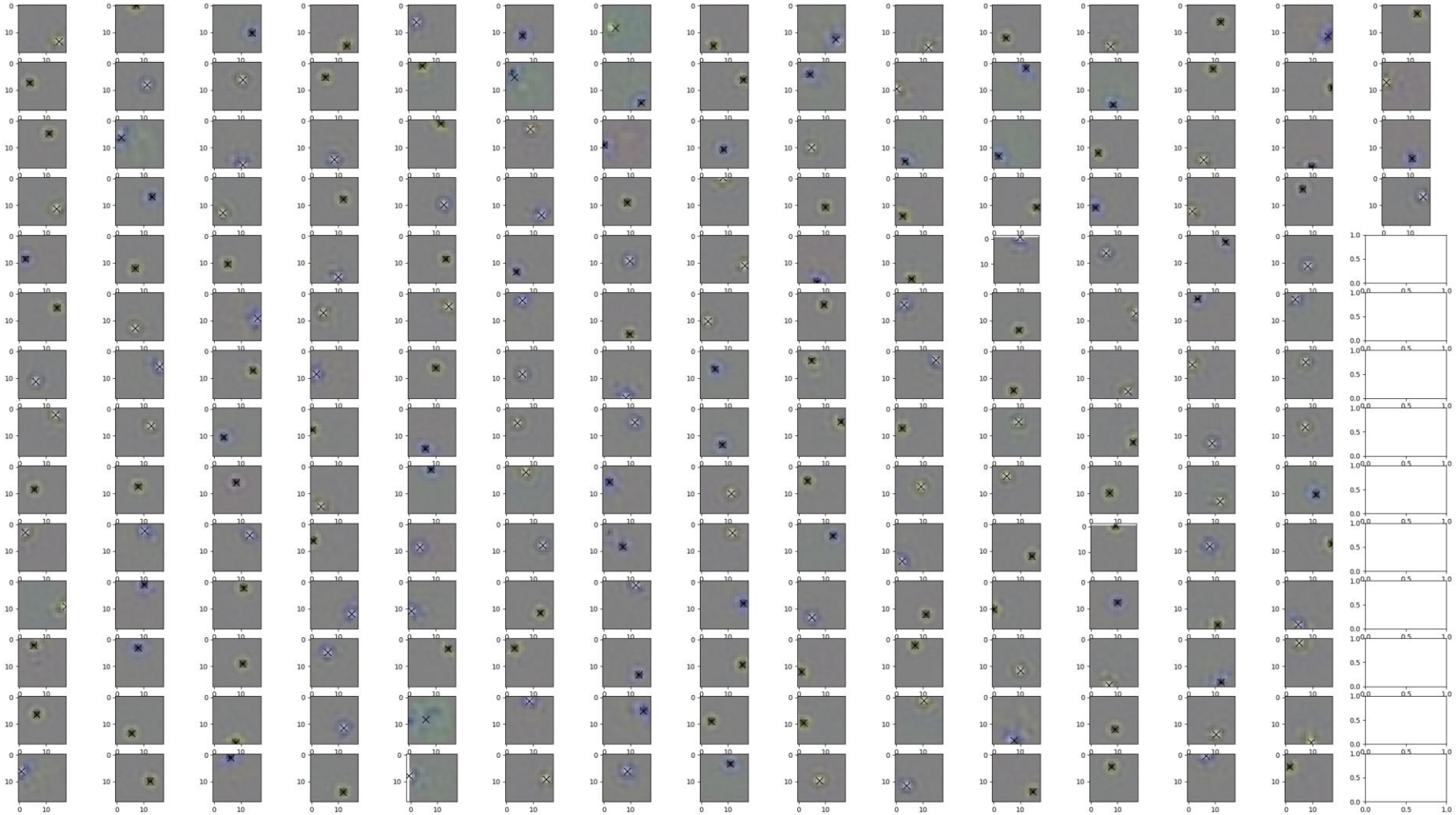
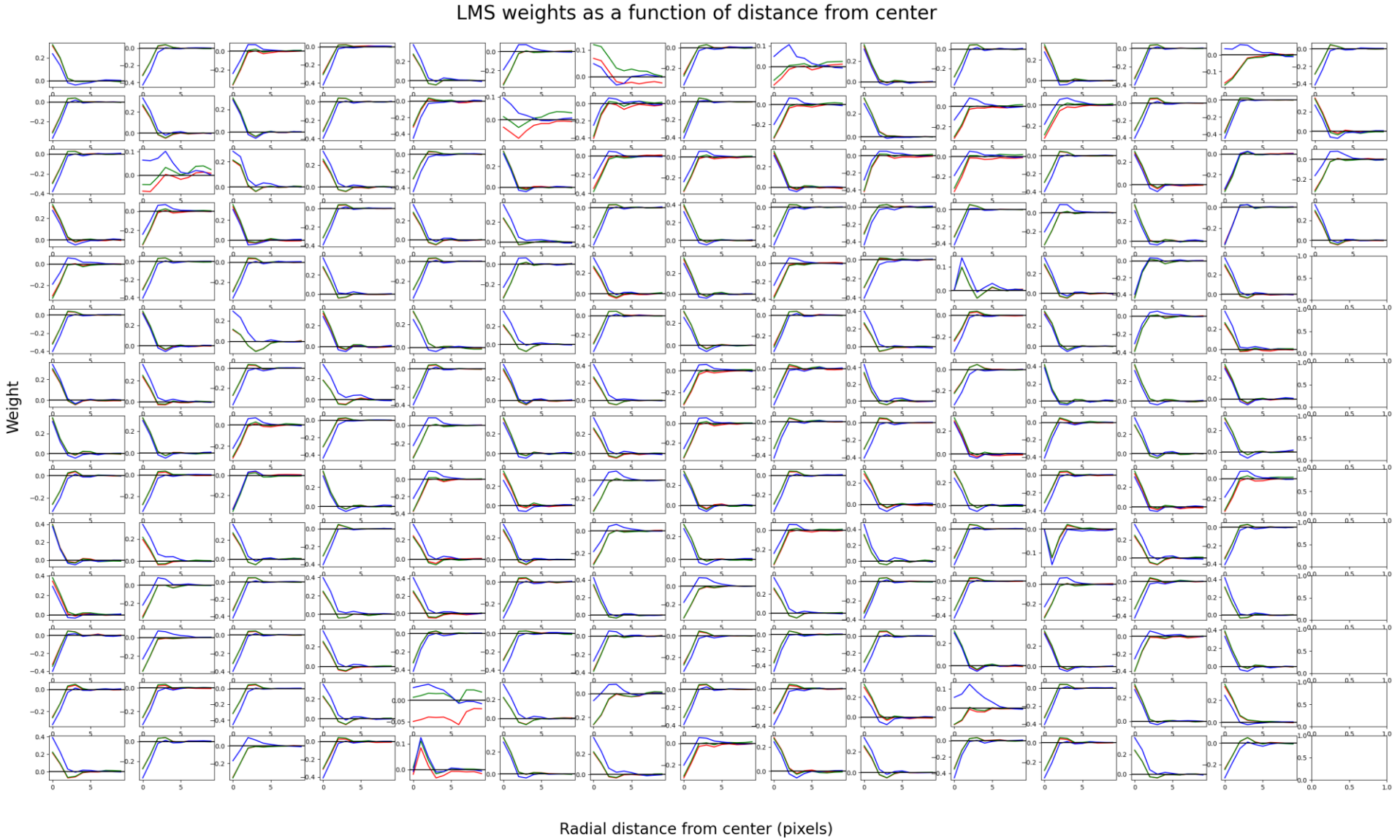
Previous algorithm to detect centers – good but some misses at 200 RGCs



Gaussian fit to estimate centers – more reliable

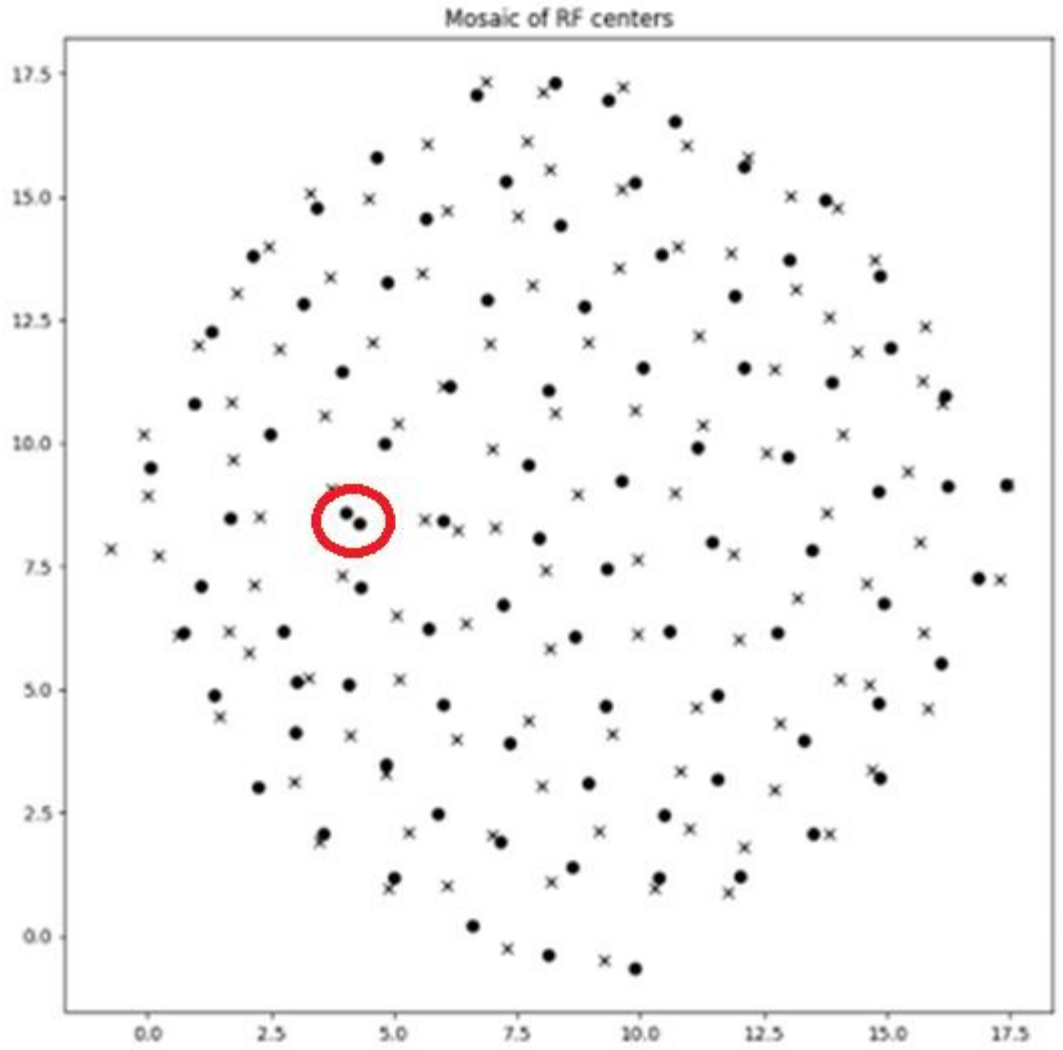


Centers are luminance-based, but surrounds can be either 1 cone or many

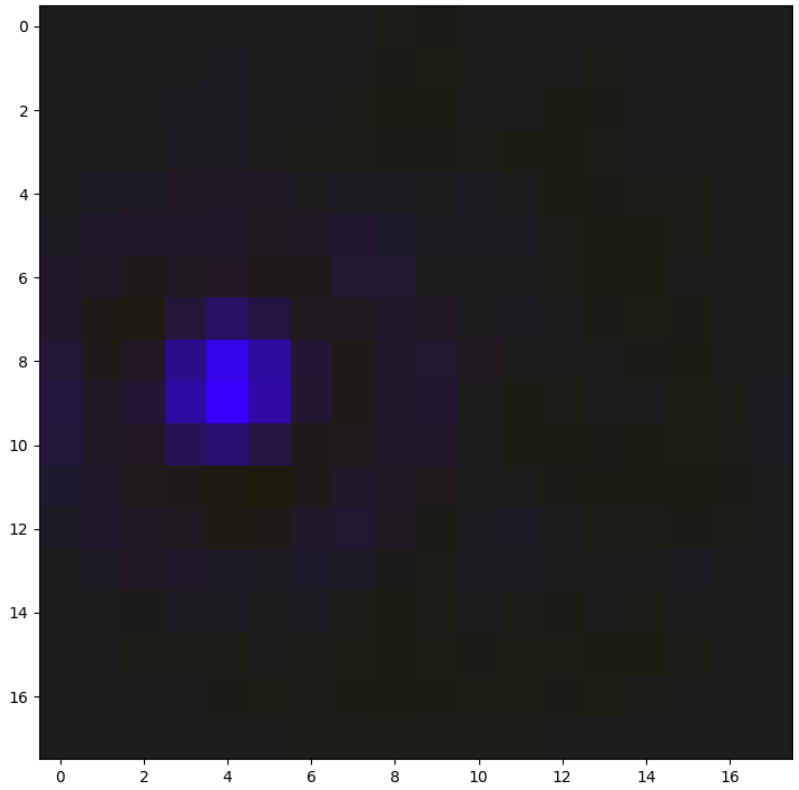


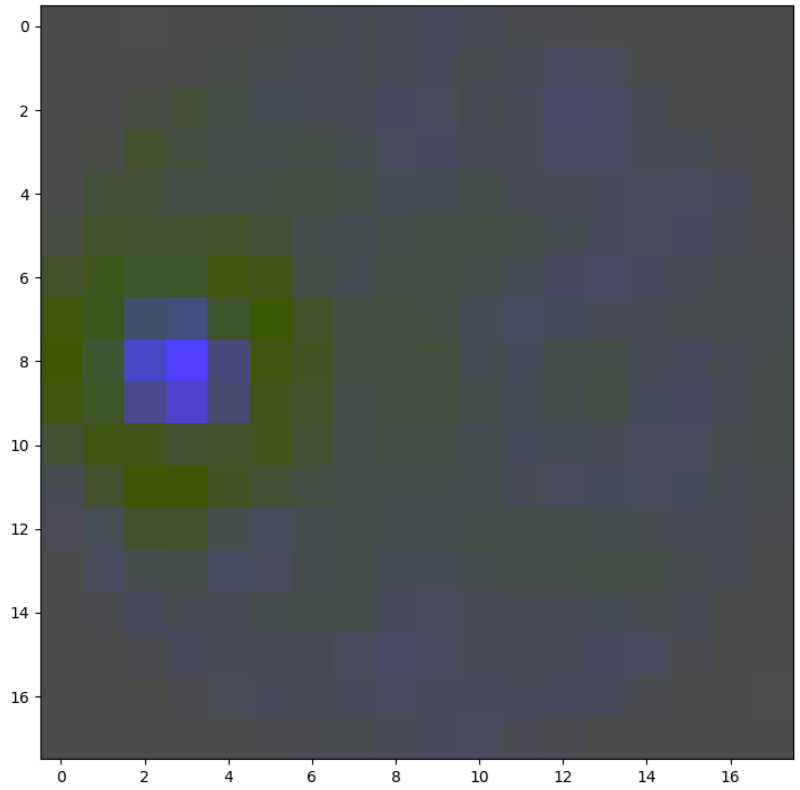
Updated mosaic with 200 RGCs

65 and 84 are both On-center with same location

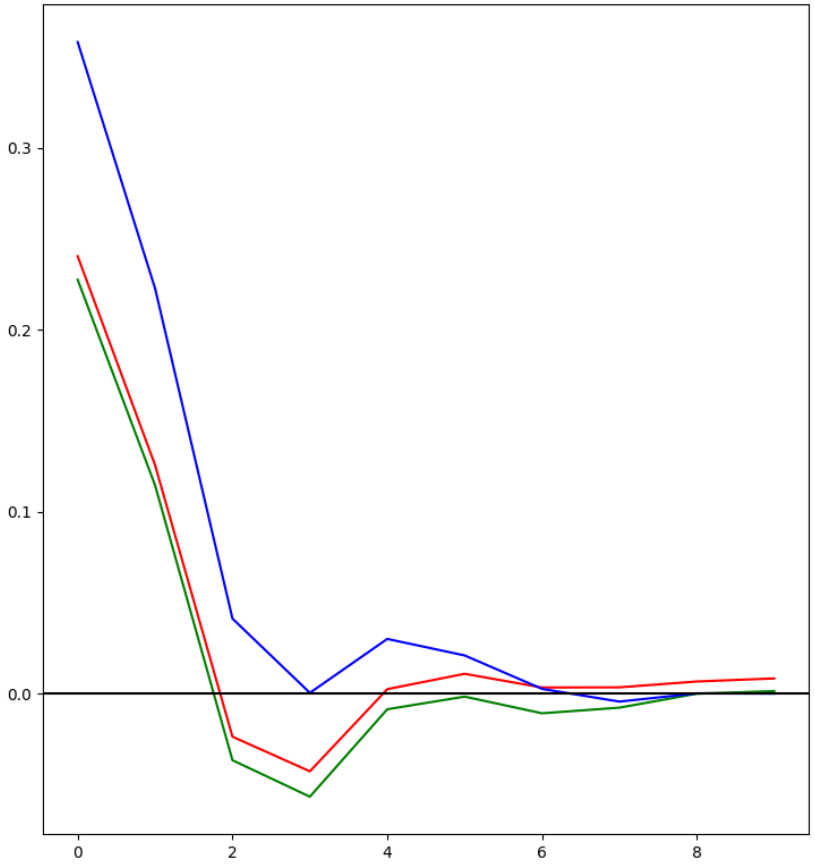


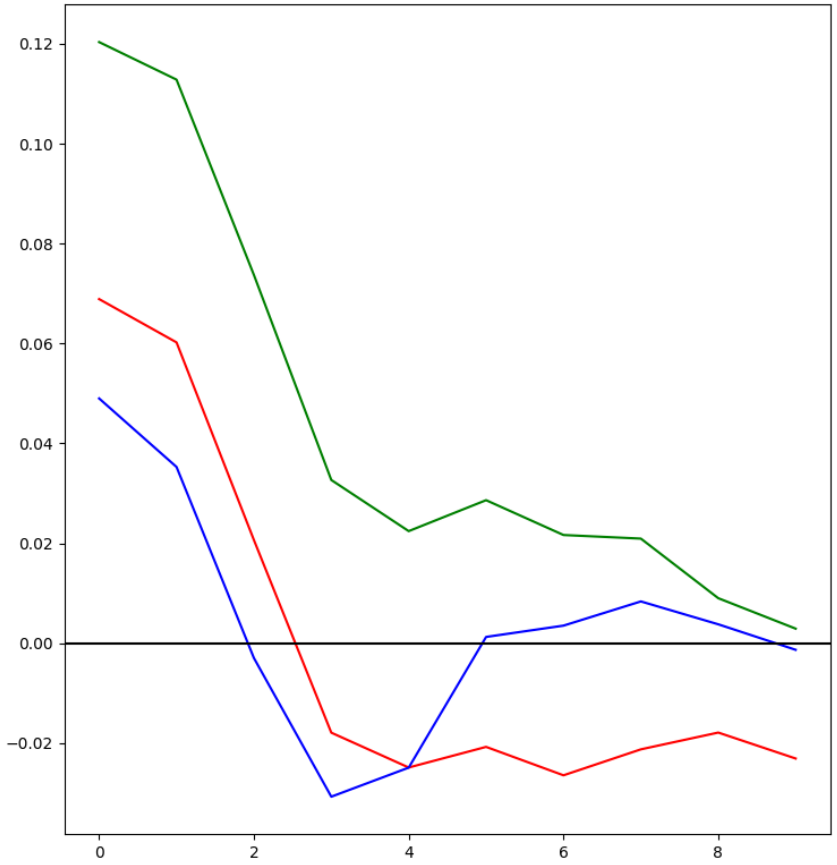
What are these two RFs right next to each other?

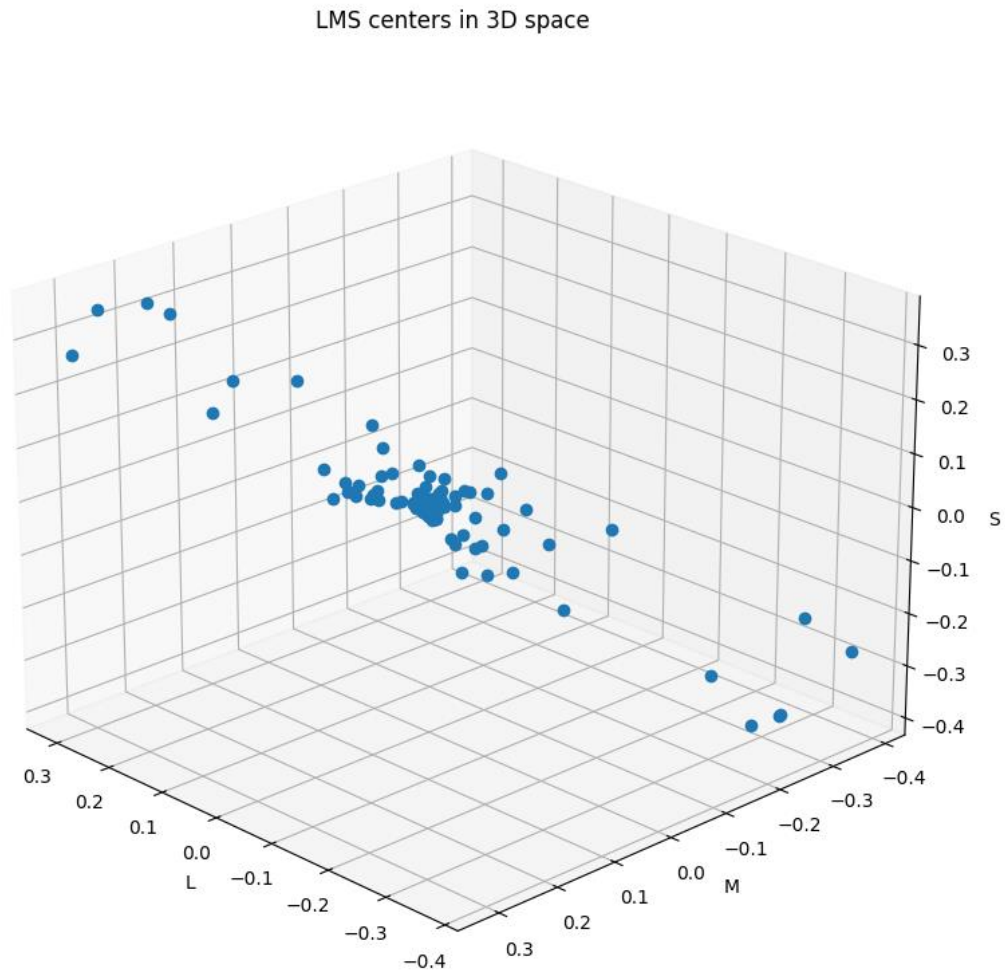


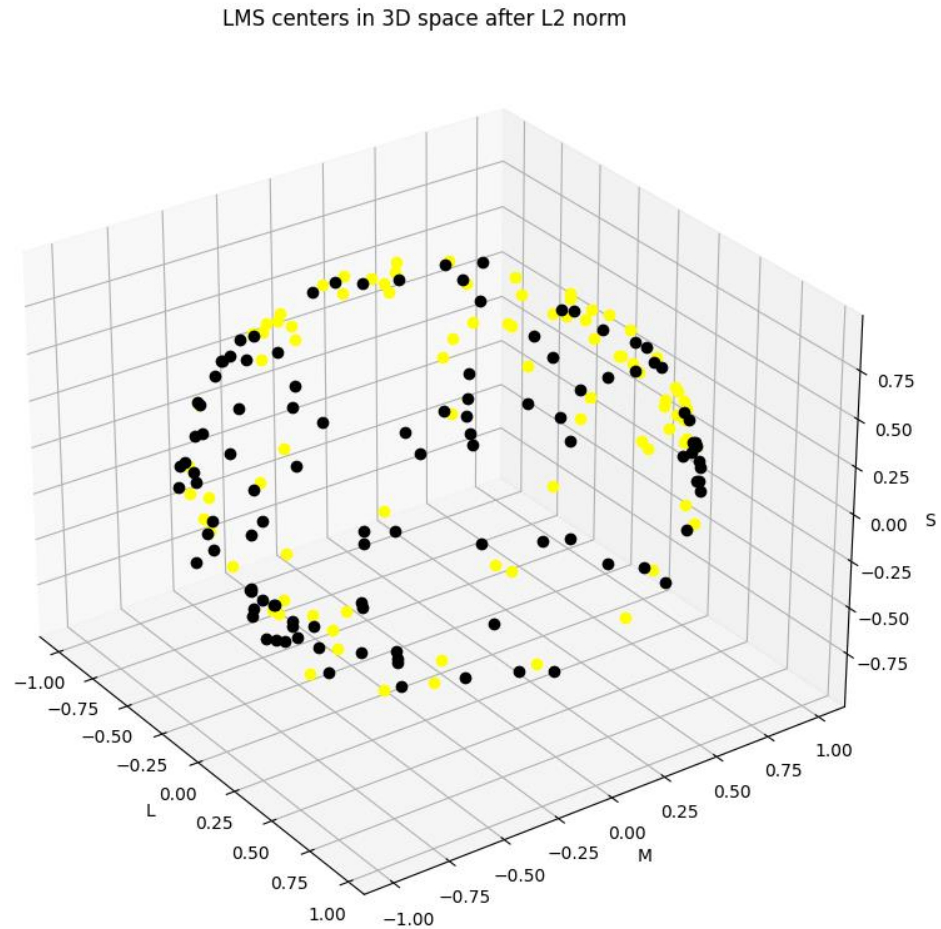


What are the centers and surrounds like?



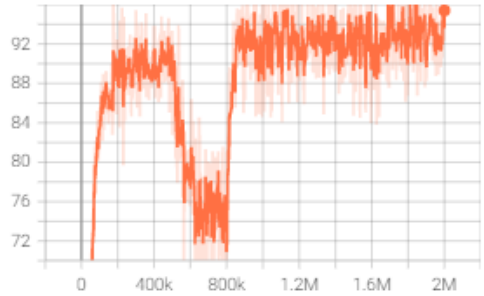



LMS centers in 3D space
L
M
S
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4

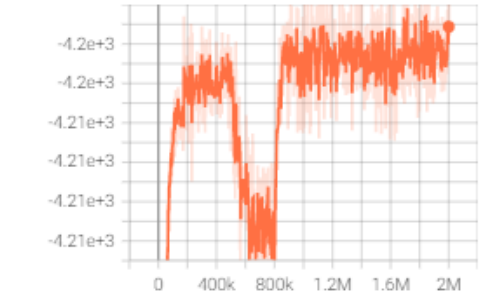

LMS centers in 3D space after L2 norm
L
M
S
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00

terms

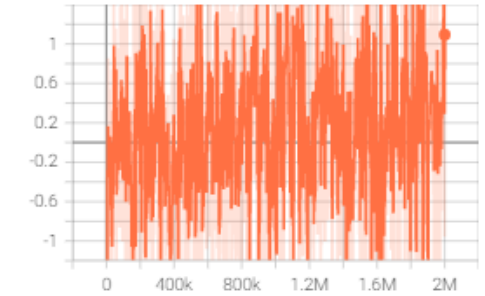
KL
tag: terms/KL



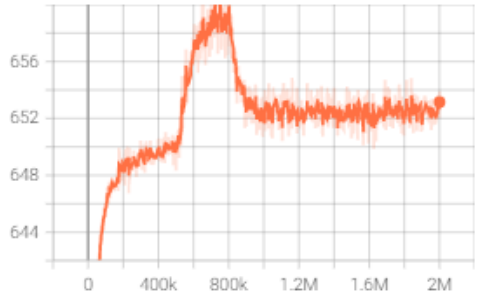
MI
tag: terms/MI



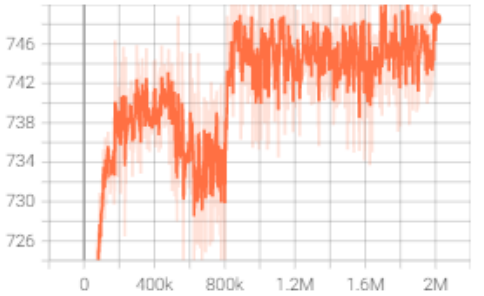
linear_penalty
tag: terms/linear_penalty



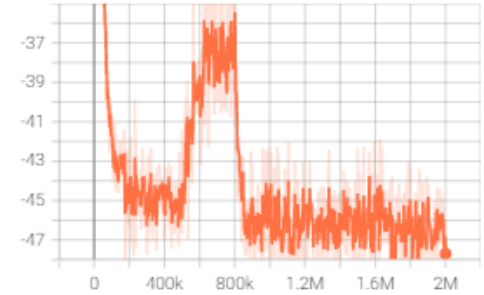
logdet_denominator
tag: terms/logdet_denominator



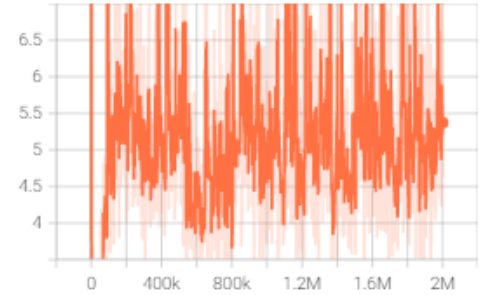
logdet_numerator
tag: terms/logdet_numerator



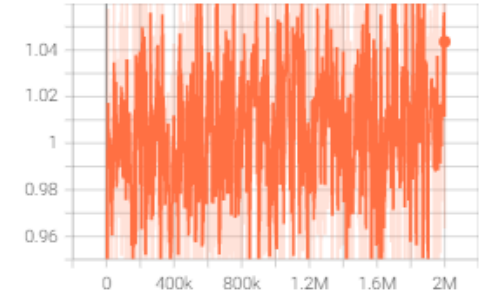
loss
tag: terms/loss



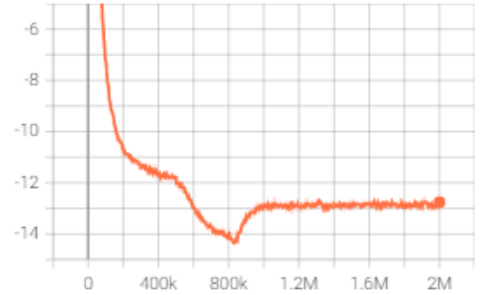
quadratic_penalty
tag: terms/quadratic_penalty



r
tag: terms/r

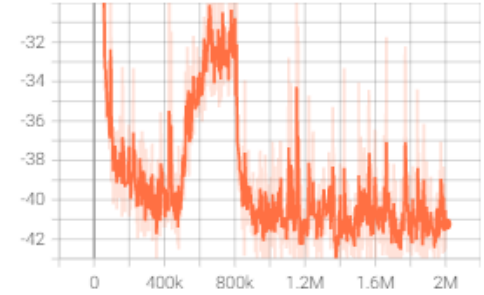


z
tag: terms/z

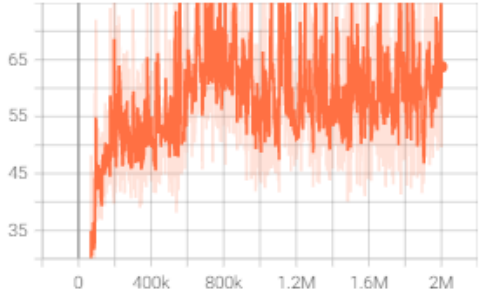


train

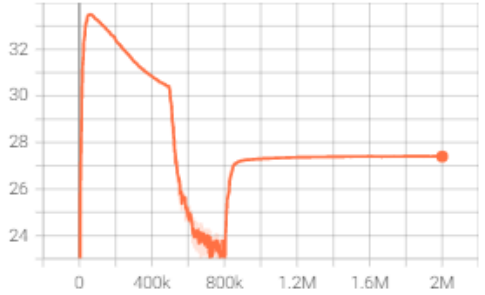
final_loss
tag: train/final_loss



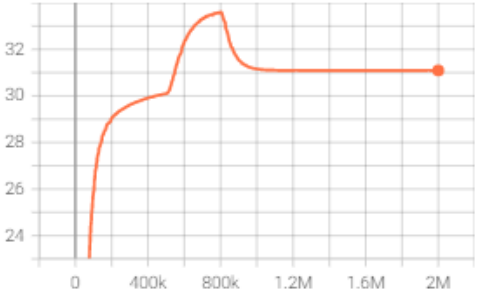
grad_norm
tag: train/grad_norm



kernel_variance
tag: train/kernel_variance

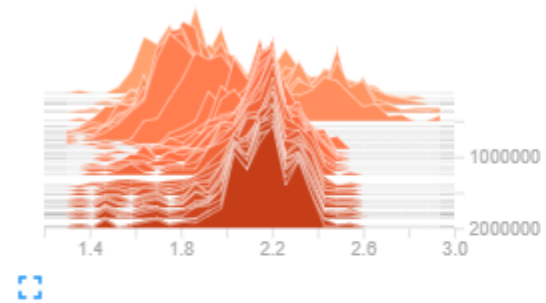


param_norm
tag: train/param_norm

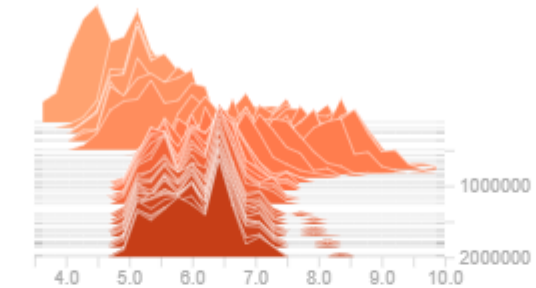


histogram

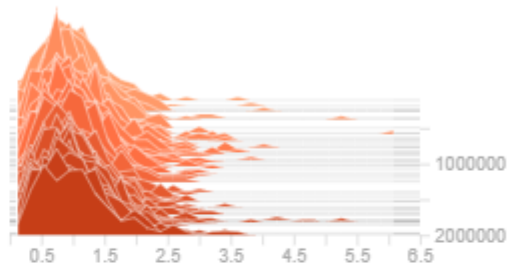
histogram/bias



histogram/gain



histogram/r



histograms

histograms/λ