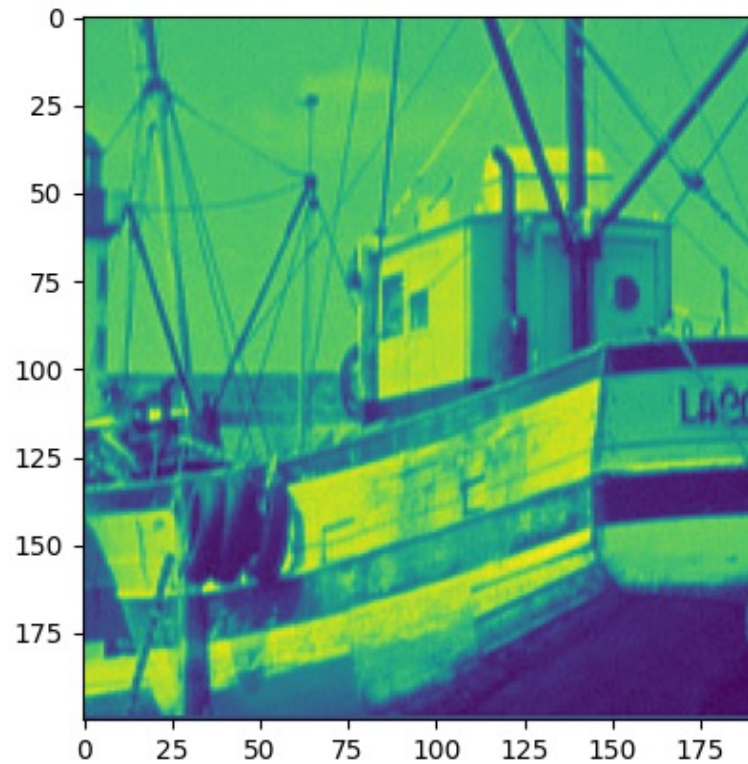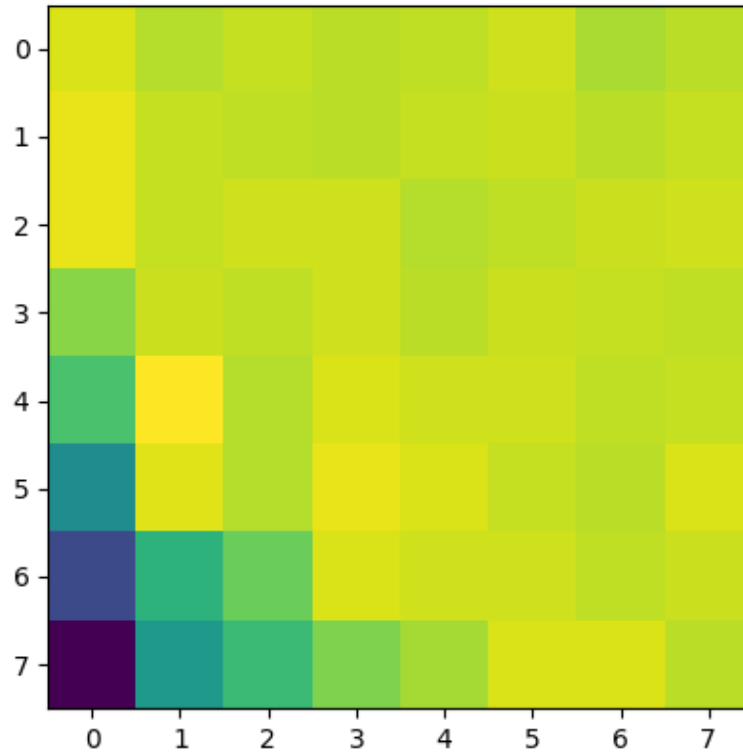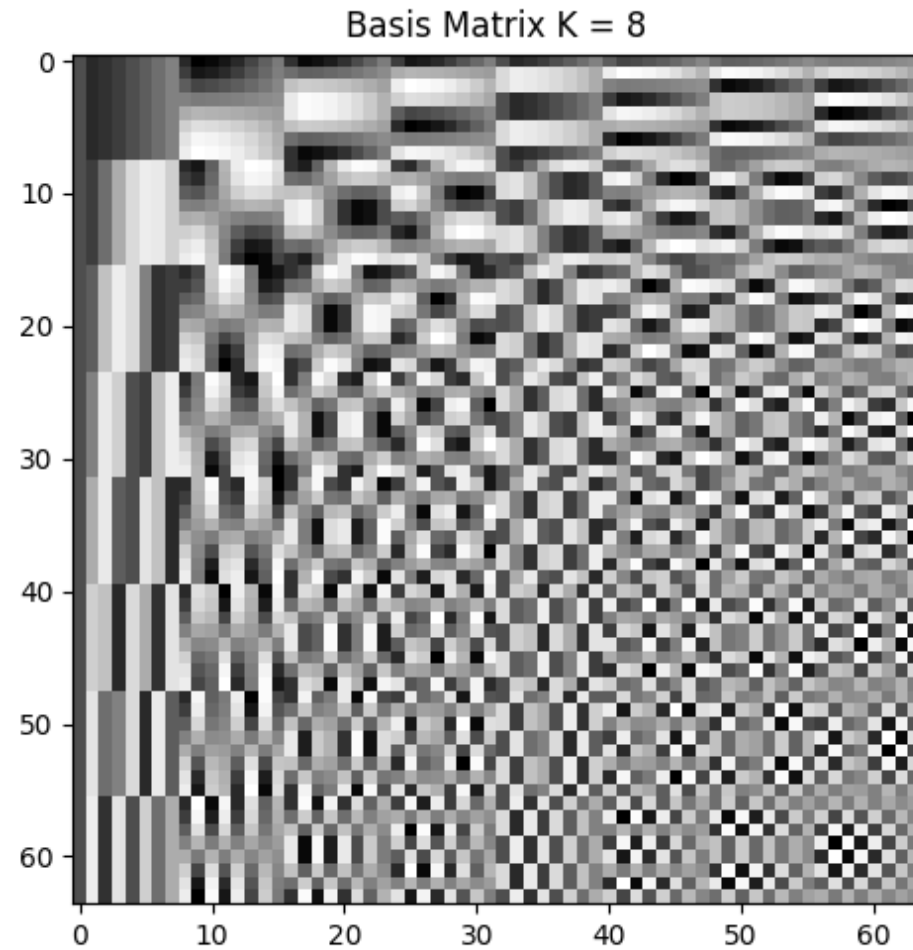# Fishing Boat Original Image

Fishing Boat 8x8, Top Pixel @ (17, 25)

Basis Vector Matrix K = 8

Basis Matrix K = 8

Fishing Boat 8x8, Top Pixel @ (17, 25), S = 50

Corrupted Image, S = 50

Optimal Regularization Reconstruction, S = 50
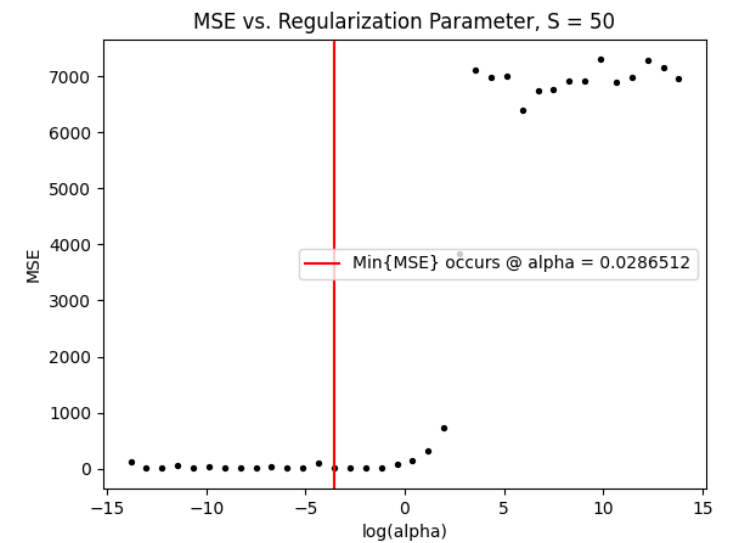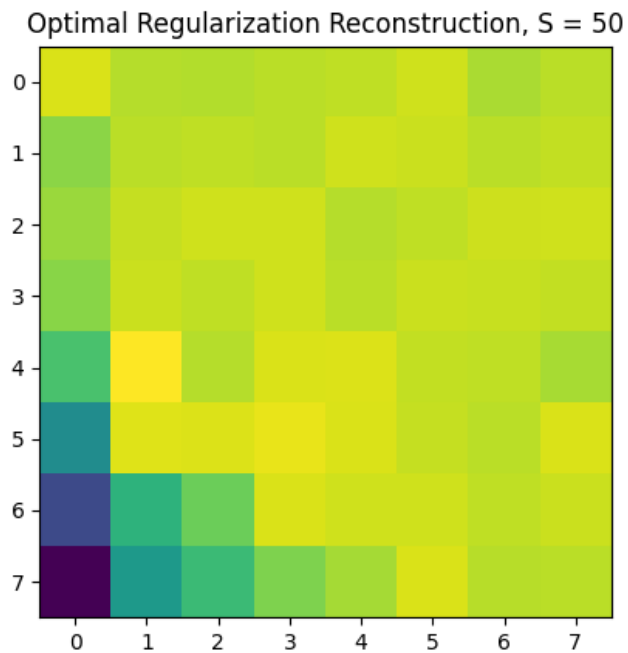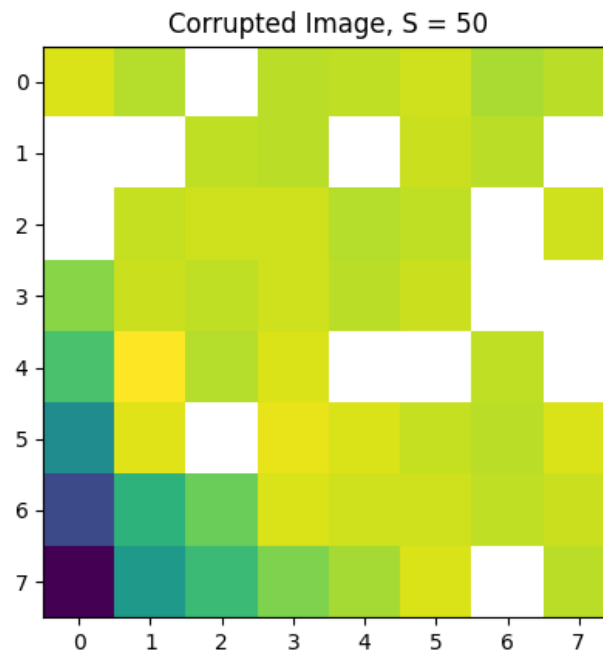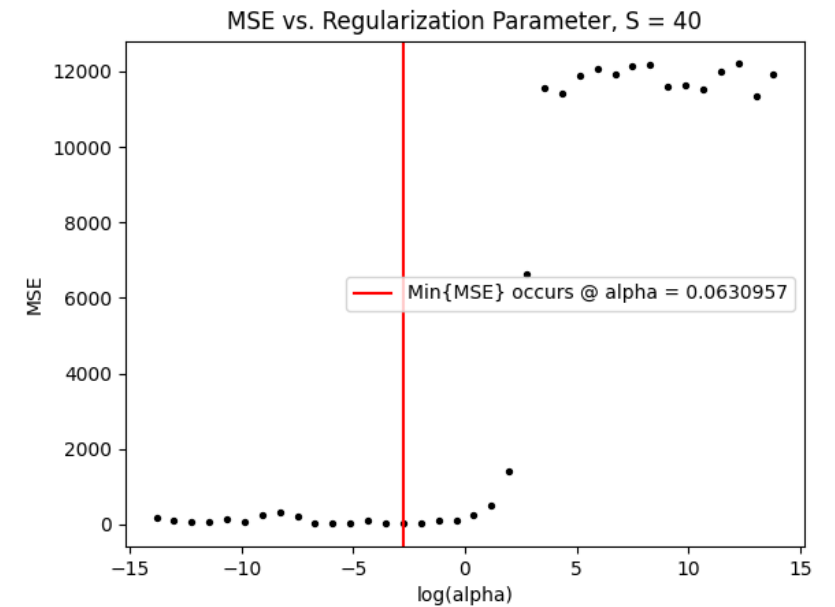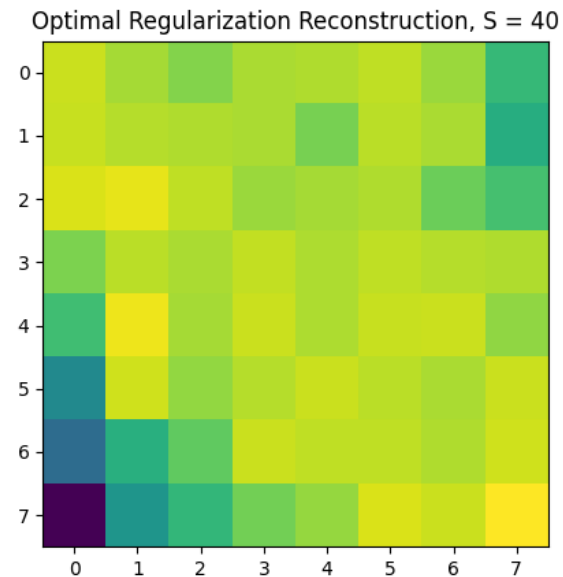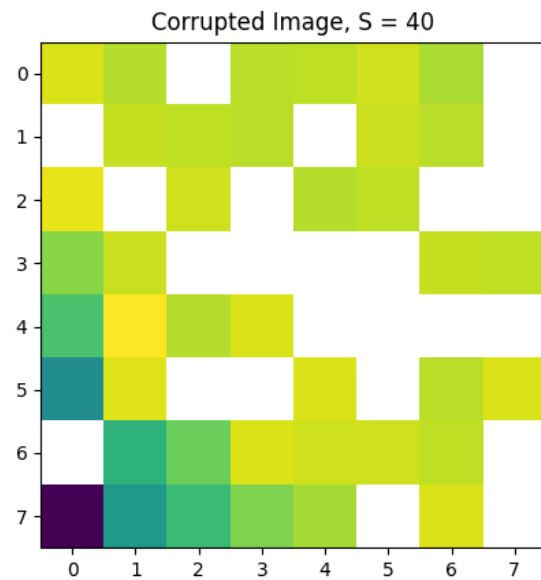
MSE vs. Regularization Parameter, S = 50

Min{MSE} occurs @ alpha = 0.0286512

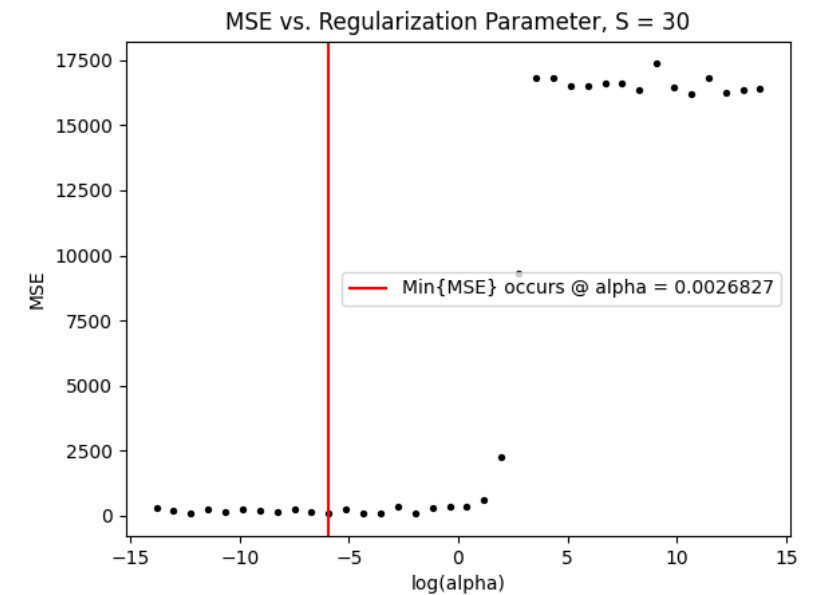# Fishing Boat 8x8, Top Pixel @ (17, 25), S = 40

Corrupted Image, S = 40

Optimal Regularization Reconstruction, S = 40

MSE vs. Regularization Parameter, S = 40

Min{MSE} occurs @ alpha = 0.0630957

Fishing Boat 8x8, Top Pixel @ (17, 25), S = 30

Corrupted Image, S = 30

Optimal Regularization Reconstruction, S = 30

MSE vs. Regularization Parameter, S = 30
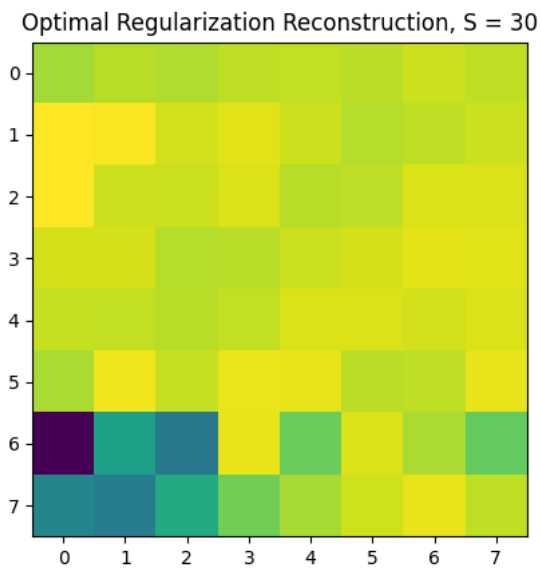
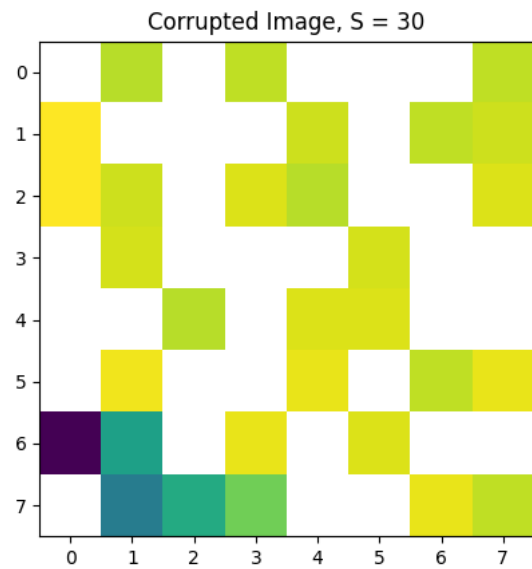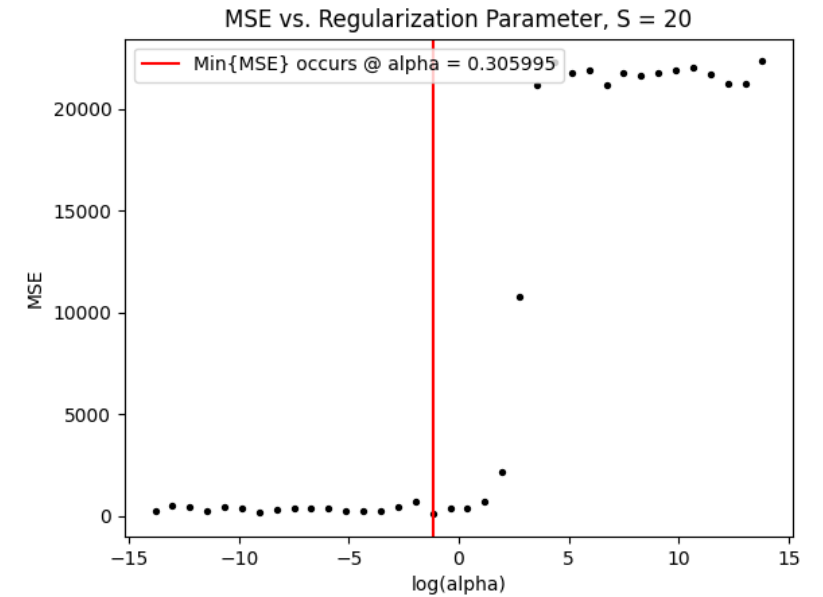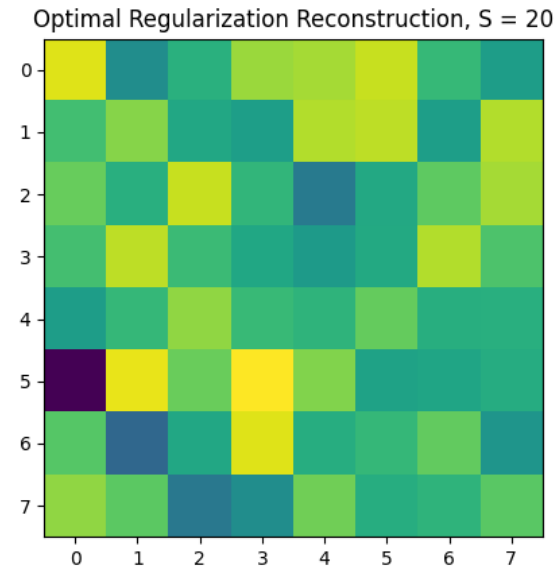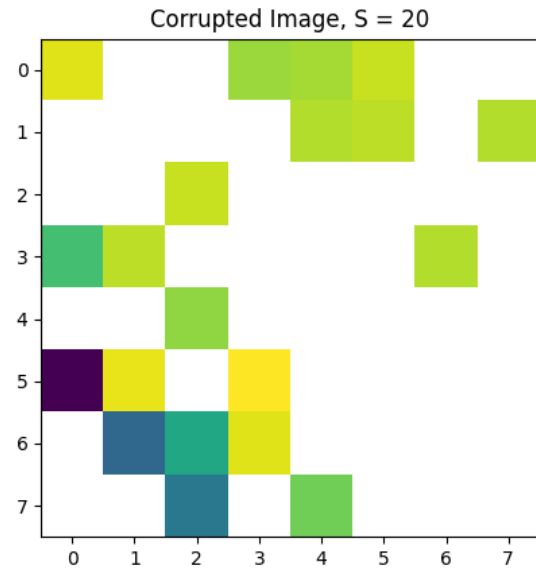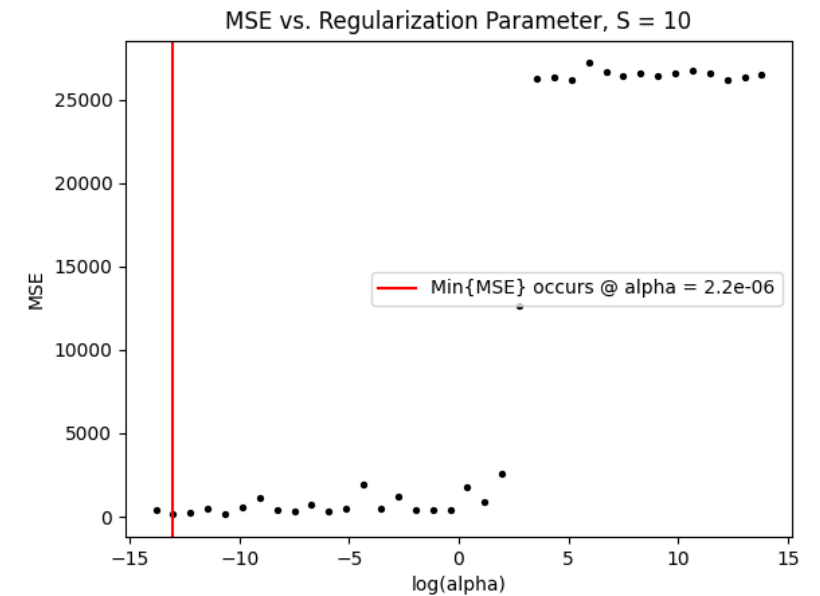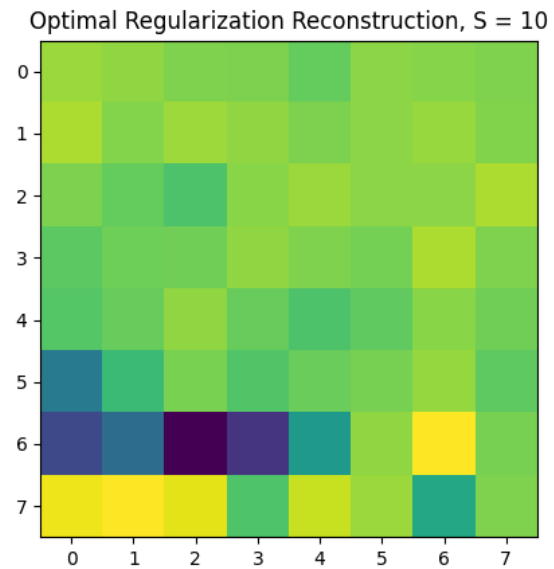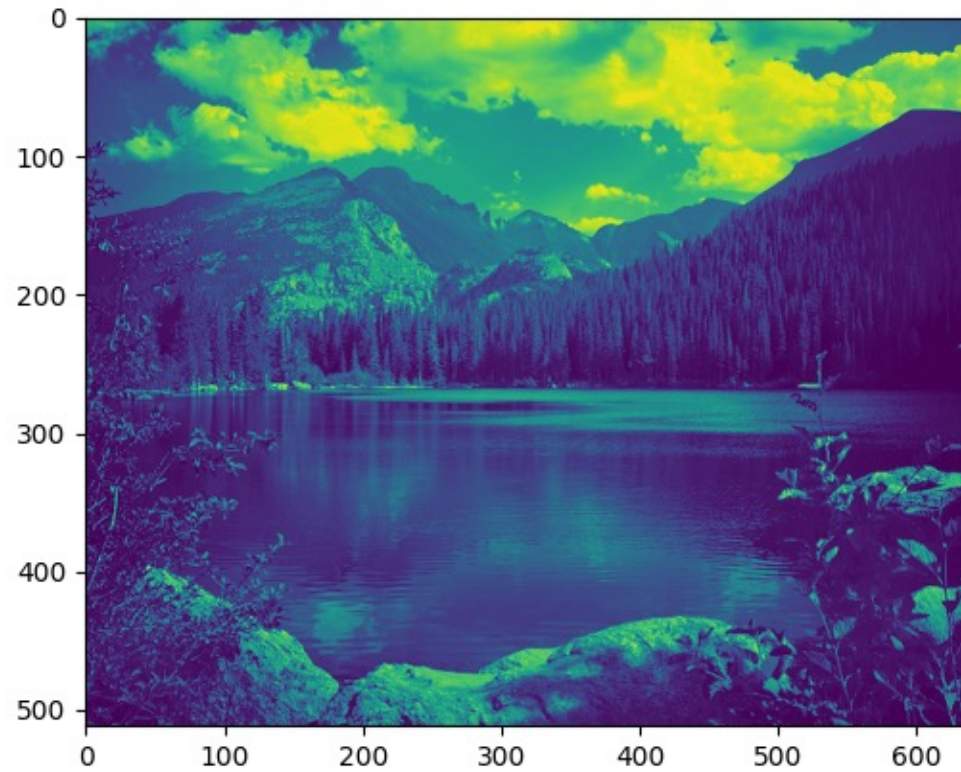Min{MSE} occurs @ alpha = 0.0026827
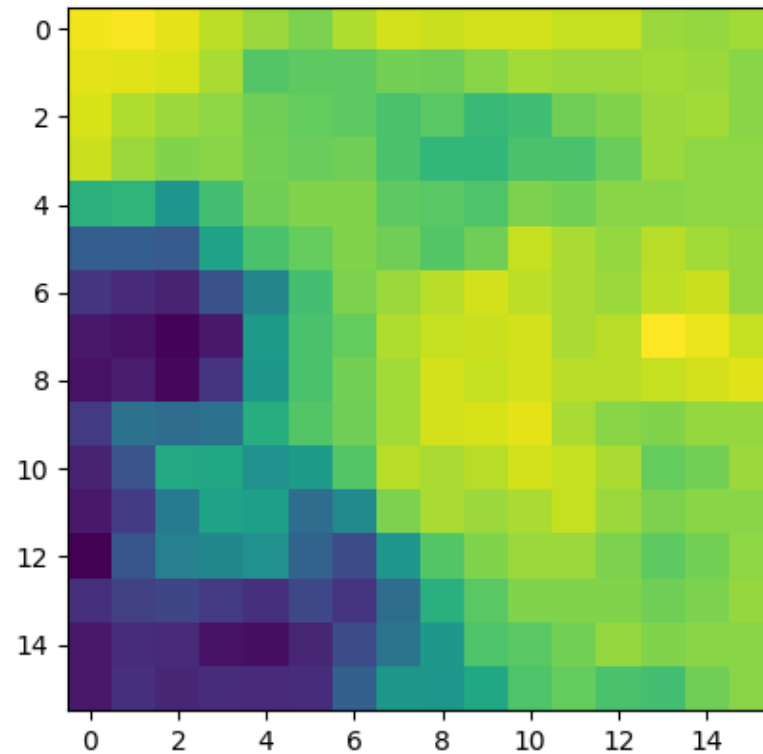
Fishing Boat 8x8, Top Pixel @ (17, 25), S = 20
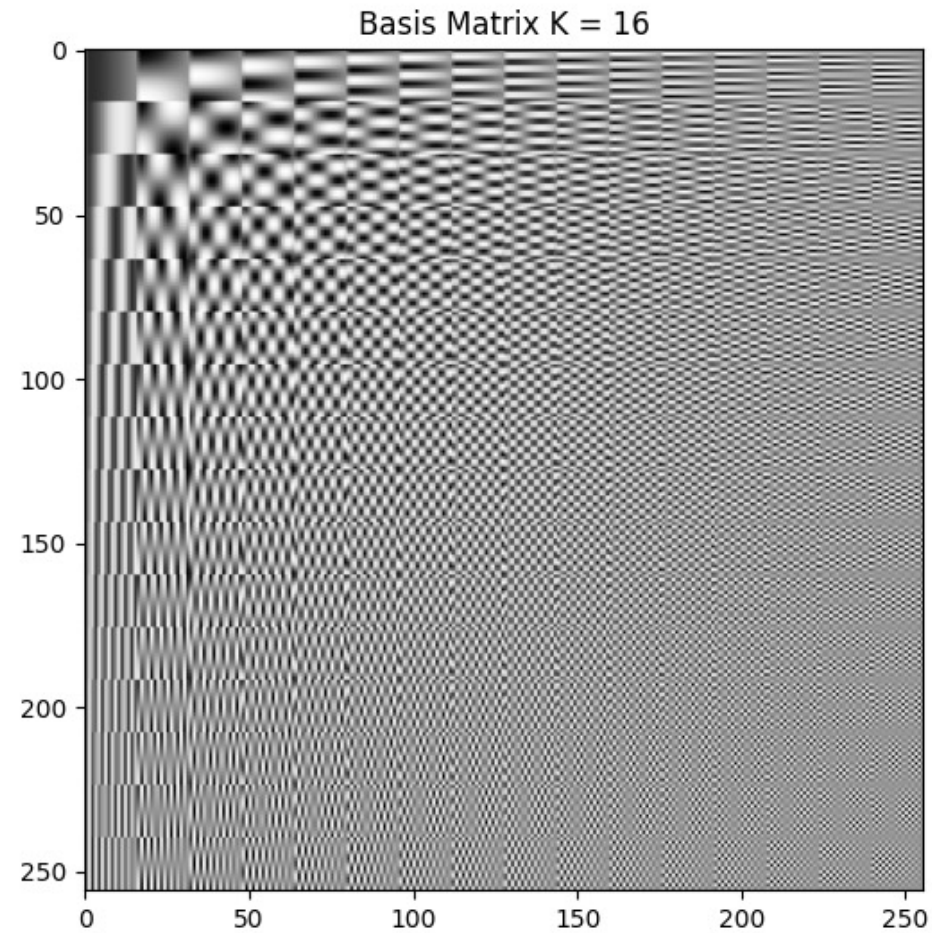
Fishing Boat 8x8, Top Pixel @ (17, 25), S = 10
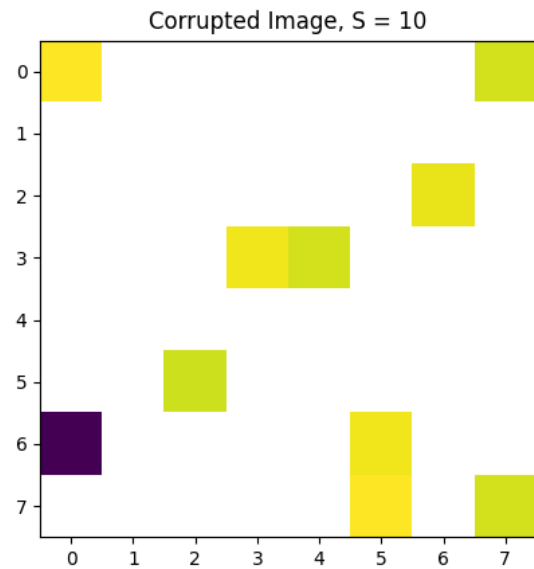
Nature Original Image

Nature 16x16, Top Pixel @ (17, 193)

Basis Vector Matrix K = 16

Basis Matrix K = 16

Nature 16x16, Top Pixel @ (17, 193), S = 150

Corrupted Image, S = 150

Optimal Regularization Reconstruction, S = 150
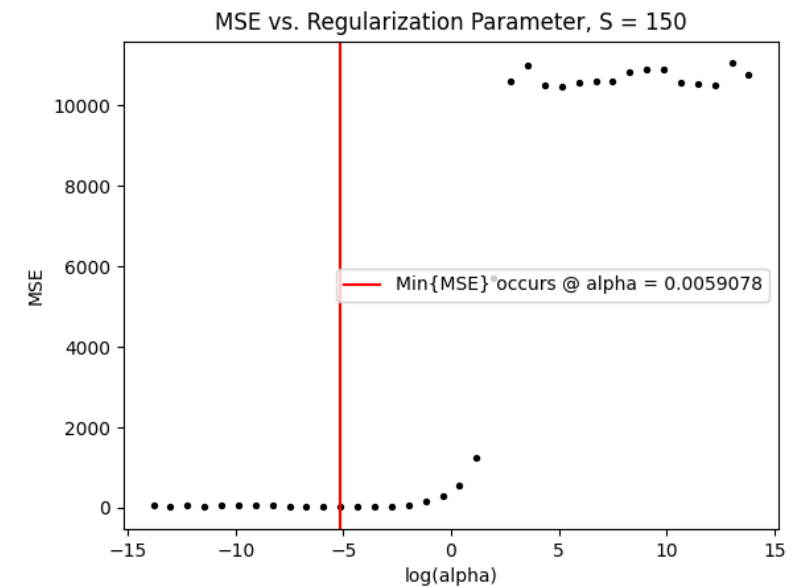
MSE vs. Regularization Parameter, S = 150

Min{MSE} occurs @ alpha = 0.0059078

Nature 16x16, Top Pixel @ (17, 193), S = 100

Corrupted Image, S = 100

Optimal Regularization Reconstruction, S = 100
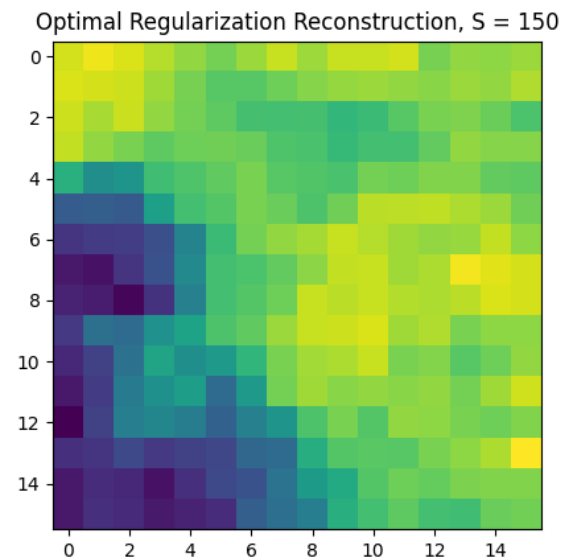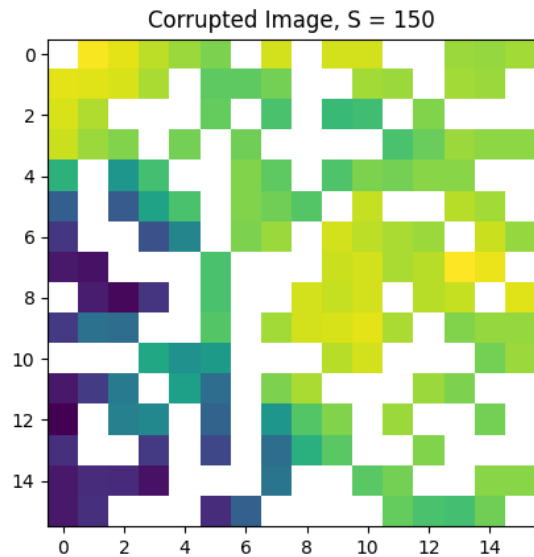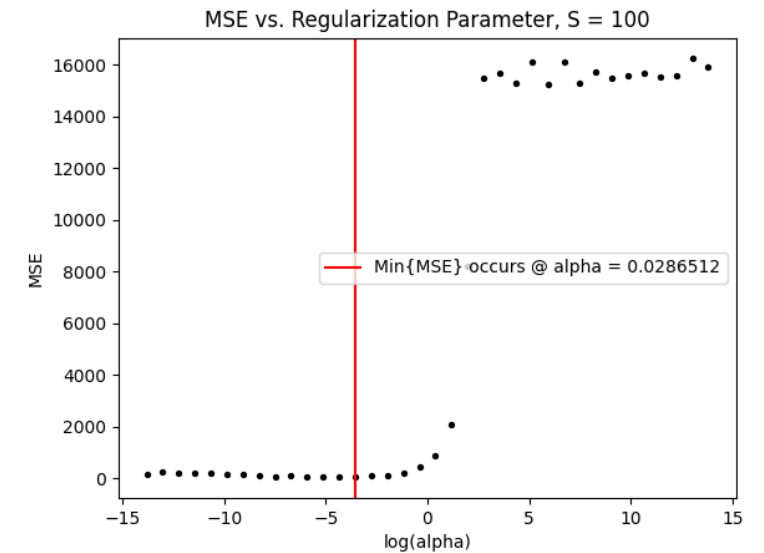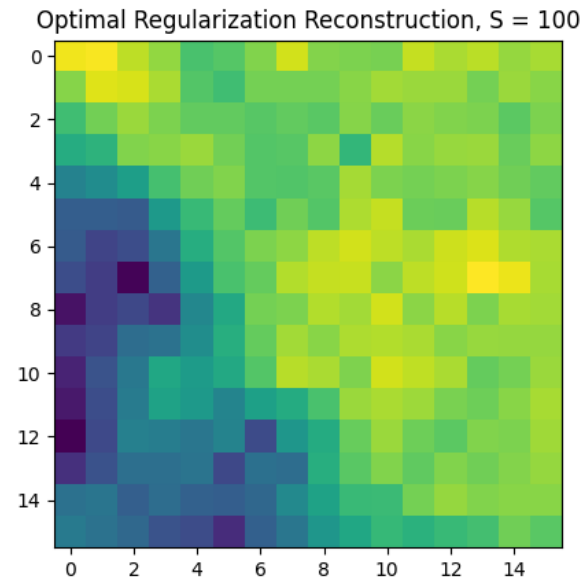

MSE vs. Regularization Parameter, S = 100

Min{MSE} occurs @ alpha = 0.0286512
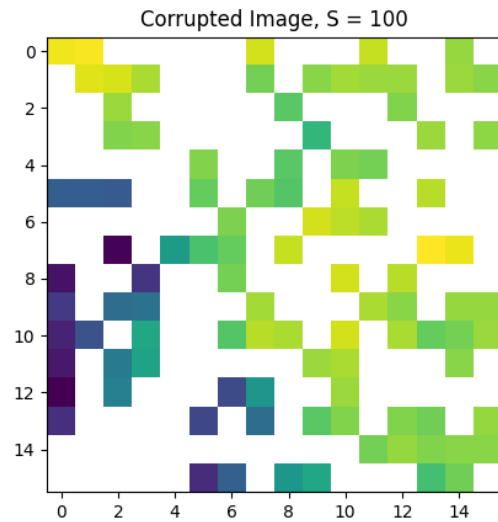
Nature 16x16, Top Pixel @ (17, 193), S = 50

Nature 16x16, Top Pixel @ (17, 193), S = 30

Corrupted Image, S = 30

Optimal Regularization Reconstruction, S = 30
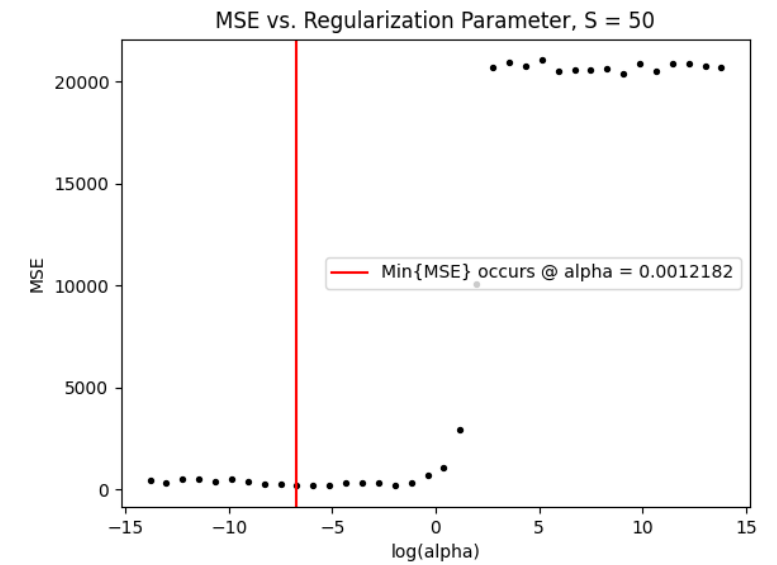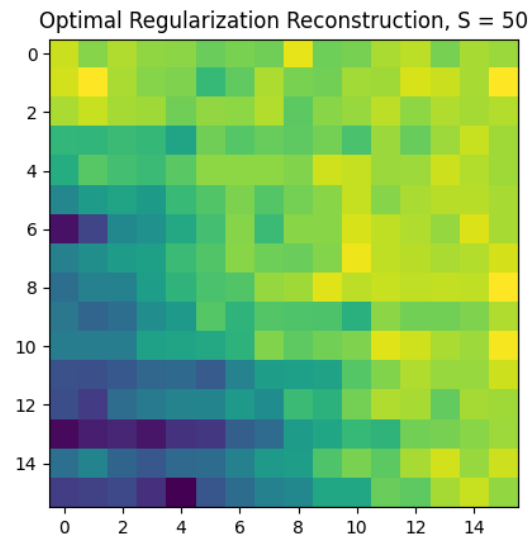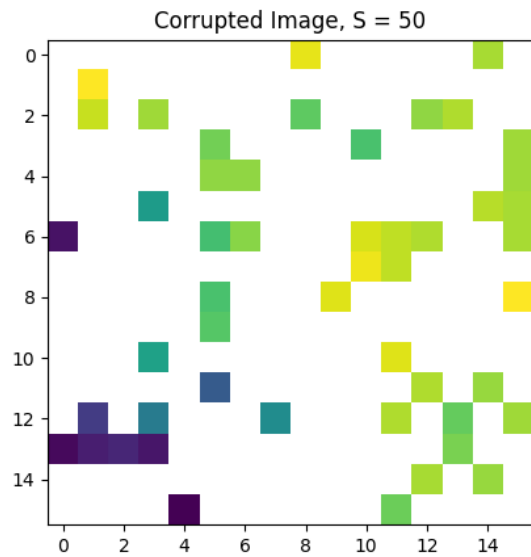

MSE vs. Regularization Parameter, S = 30

Min{MSE} occurs @ alpha = 0.0005532

Nature 16x16, Top Pixel @ (17, 193), S = 10

Corrupted Image, S = 10

Optimal Regularization Reconstruction, S = 10

MSE vs. Regularization Parameter, S = 10

Min{MSE} occurs @ alpha = 1e-06