2D Navier-Stokes Error Analysis Overall Improvement: 79.5% Ground Truth 1.0 Baseline FNO Abs. Error Our FNO-RC Abs. Error (2D Navier-Stokes t=19) (Avg: 0.0140) (Avg: 0.0029) - 0.05 0.05 0 0.5 20 -20 20 0.04 0.04 40 -40 40 0.0 - 0.03 0.03 60 -60 60 80 -80 80 0.02 0.02 -0.5 100 -100 100 0.01 0.01 -1.0120 -120 120 60 80 100 120 20 60 80 100 120 80 100 120 20 40 20 40 60 0 40 0.00 0.00 **Error Distribution Histogram** - 100 **Error Reduction** Baseline FNO (Baseline - FNO-RC) Relative Improvement (%) FNO-RC 0 200 0.04 - 80 20 0.03 40 150 -60 60 0.02 100 40 80 -0.01 100 100 50 - 20 0.00 120 -120 20 40 60 80 100 120 80 100 120 20 60

0.00

0.01

0.02

0.03

Absolute Error

0.05

0.04