AerialWildfireSuppression Train & Test Metrics: Difficulty: 4, Task: 8 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 0.05 -0.05 2.25 -0.05 -0.05 0.05 source source source source source — training 2.00 · training training --- training training Value Value Value Value Value 0.00 0.00 0.00 0.00 test — test test — test — test test -0.05 -0.05-0.05-0.051.5 1.5 1.5 0.0 0.5 0.5 1.5 1.0 0.5 1.5 0.5 1.0 1.5 0.0 1.0 0.0 1.0 0.0 0.5 1.0 0.0 0.5 0.0 1.0 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step **Extinguishing Trees** Fire Out Fire too Close to City Crash Count Episode Length Extrinsic Value Estimate 0.05 0.05 0.05 source source source source - training training training training 0.00 0.00 0.00 test test test training training test test -0.05-0.05 --0.05 0.5 1.0 1.5 0.0 1.5 0.5 1.5 0.0 1.5 0.0 0.5 1.0 1.5 0.0 1.5 0.0 0.5 1.0 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Cumulative Reward Extrinsic Reward Policy Loss Value Loss Learning Rate **Epsilon** 0.06 0.20 source source source source 100 100 <u>υ</u> 0.0002 training training Value Value Value 7.00 Value Nalue - 0.15 source 500 test training training test test -100 -100 0.0000 1.5 0.0 0.5 0.0 0.5 1.5 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 1.0 0.0 0.5 0.0 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step 1e6 Step Beta source 0.004 training 8 0.002 test 0.000

1.0

Step

1.5

1e6

0.5

0.0