AerialWildfireSuppression Train & Test Metrics: Difficulty: 10, Task: 5 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 1.00 √ 0.05 0.05 -0.05 0.05 source source source source source source 1.6 training training training training training training Value Value Value  $\frac{9}{8}$  0.950.00 0.00 0.00 test test — test test — test — test 1.4 -0.05-0.05-0.05-0.051.5 0.5 1.5 1.5 1.0 1.5 0.0 0.0 0.5 0.0 0.0 0.5 1.5 0.5 1.0 1.5 1.0 1.0 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 source 250 training training training training training 0.00 0.01 source n 200 0.00 0.00 test test test — test test training test 150 -0.05 --0.05 -0.051.5 1.0 1.5 0.0 1.5 0.0 0.5 1.5 0.5 1.0 0.0 1.0 1.5 0.0 0.5 1.5 0.0 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 95.0 95.0 source source 400 <u>υ</u> 0.0002 training training 92.5 -- 002 Value Value - 50.0 Nalue - 0.15 source source source 92.5 test test training training training test 0.04 test test 0.0000 90.0 90.0 1.5 0.0 0.5 1.0 1.5 0.0 0.5 1.5 1.5 0.0 0.5 1.0 0.0 0.5 1.0 1.5 0.5 1.0 1.5 1.0 0.5 1.0 0.0 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step Beta source 0.004 training 8 0.002 · test 0.000 1.0 0.5 1.5 0.0 Step 1e6