## AerialWildfireSuppression Train & Test Metrics: Difficulty: 1, Task: 7 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 0.05 -0.05 0.05 -0.05 0.05 source source source source source source Value Value — training training training --- training training Value Value Value Value 0.00 0.00 0.00 0.00 0.00 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 0.0 0.5 1.0 1.5 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 too Close to City Fire Out Crash Count Episode Length Extrinsic Value Estimate 0.05 0.05 0.05 source source source source source source training Φ 2000 training training 0.00 training <u>9</u> 50 0.00 0.00 test test test -0.05 --0.05 -0.051.0 1.5 0.0 1.5 0.5 1.5 0.0 1.5 0.0 1.0 1.5 0.0 1.0 1.5 0.0 0.5 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Extrinsic Reward Cumulative Reward Policy Loss Learning Rate Epsilon Value Loss 0.20 100 100 source source source <u>υ</u> 0.0002 training training Value Value Value 20.0 Nalue - 0.15 source test - training test test 0.04 -100 -100 0.0000 0.5 1.0 1.5 0.0 0.5 1.5 0.0 1.5 0.0 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 1.5 0.0 1e6 1e6 1e6 1e6 Step Step Step Step Step 1e6 1e6 Step Beta source 0.004 training 8 0.002 · test 0.000

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