## AerialWildfireSuppression Train & Test Metrics: Difficulty: 3, Task: 5 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 1.000 -0.05 0.05 -0.05 0.05 1.6 source source source source source training training training training training Nalue 1.5 · 0.975 -Value Value source 0.00 0.00 0.00 — test test — test — test training 0.950 test -0.05-0.05-0.051.5 0.0 0.5 1.5 1.0 1.5 0.0 0.0 0.5 1.5 0.5 1.5 0.5 1.0 1.5 1.0 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 50 source source source source training training training training 0.00 0.01 × source source 0.00 0.00 ₩ 25 · test test test training training test -0.05 --0.05 -0.051.0 1.5 0.0 1.5 0.0 0.5 1.5 0.0 0.5 1.0 1.5 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** 0.20 95 -95 · 0.06 source source source <u>v</u> 0.0002 training training training 9 200 -Value Nalue - 0.15 source source source 0.05 test test training training training test test test 0.04 0.0000 0.0 0.5 1.0 1.5 0.0 0.5 1.5 0.0 0.5 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 1.0 0.5 1.5 1.0 0.0 1e6 1e6 1e6 1e6 1e6 Step 1e6 Step Step Step Step Step Beta source 0.004 training 8 0.002 · test 0.000

1.0

Step

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