AerialWildfireSuppression Train & Test Metrics: Difficulty: 8, 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 source source source source source — training en Nalne 1.4 training training training training 0.975 -Value Value source 0.00 0.00 0.00 — test test — test test — test training 0.950 test -0.05-0.05-0.051.5 0.0 0.5 1.5 1.5 0.0 0.0 0.5 1.5 1.0 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 source source source source source 250 40 — training training training training training 0.00 $\frac{\frac{a}{b}}{\frac{a}{b}}$ 0.01 Value 200 source 0.00 0.00 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 0.0 0.5 1.0 0.0 1.5 0.0 0.5 1.5 0.0 1.0 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 source source 400 94 Nalue 92 94 \alpha 92 -<u>v</u> 0.0002 training training Value - 50.0 - 000 Value Nalue - 0.15 source source source source test test training training training test test test 0.04 0.0000 0.5 0.0 1.0 1.5 0.0 0.5 1.5 0.5 1.5 0.0 0.5 1.5 0.5 1.0 1.5 0.5 1.0 1.5 1.0 1.0 1.0 0.0 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

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