DroneBasedReforestation Train & Test Metrics: Difficulty: 6, Task: 1 Entropy Out of Energy Count Tree Drop Count Recharge Energy Count Save Location Count Cumulative Distance Until Tree Drop 0.05 -0.05 0.05 source source source source source source training training training training training --- training Value 0.00 0.00 0.00 0.00 test test test test test test 1.3 -0.05-0.05-0.050.75 1.00 1.25 0.25 0.50 0.75 1.00 1.25 0.25 0.75 1.00 0.25 0.50 0.25 0.50 1.00 0.00 0.25 0.50 0.75 0.25 0.75 1.00 1.25 0.00 0.50 0.00 0.00 0.75 1.25 1.00 0.00 0.50 1e6 1e6 1e6 Step Step 1e6 Step Step 1e6 Step 1e6 Step Cumulative Tree Drop Reward Cumulative Distance to Existing Trees **Cumulative Distance Reward** Cumulative Normalized Distance Until Tree Drop Episode Length Curiosity Value Estimate 0.05 -0.05 0.05 source source source source source training training training training training 300 Value 0.00 0.00 0.00 test test test test test training -0.05-0.05-0.050.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 1.00 0.25 0.50 0.75 1.00 0.25 0.50 0.75 1.00 1.25 1e6 1e6 1e6 Step 1e6 Step Step 1e6 Step Step Step 1e6 Extrinsic Value Estimate Cumulative Reward **Curiosity Reward Extrinsic Reward Policy Loss** Value Loss 100 100 source source 2000 Value 05 training Value Value 20 Value source source source 50 test ₹ 1000 training training training test test test 0.00 0.25 0.50 0.00 0.25 0.50 0.75 1.00 1.00 0.25 0.50 0.75 1.00 1.25 0.75 1.00 1.25 0.00 0.25 0.50 0.75 1.25 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 1.25 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step **Epsilon Curiosity Forward Loss** Learning Rate Beta Curiosity Inverse Loss 0.20 source source source source 0.004 စ္ 0.0002 training training training training 0.15 Value - 5.0 <u>s</u> 0.002 test test test test 0.000 0.0000 -0.00 0.50 0.50 0.00 0.25 0.50 0.75 0.25 0.50 0.75 1.00 0.25 1.00 0.25 0.50 0.25 1.00 1e6 1e6 1e6 1e6 Step 1e6