DroneBasedReforestation Train & Test Metrics: Difficulty: 9, Task: 2 Out of Energy Count Entropy Tree Drop Count Recharge Energy Count Save Location Count Cumulative Distance Until Tree Drop 1.475 0.05 0.05 -0.05 +source source source source 400 --- training Value 200 training --- training 1.450 0.00 0.00 0.00 test test training test 1.425 -0.50 0.75 1.00 1.25 0.75 1.00 0.25 0.50 0.75 1.00 1.25 0.25 0.75 1.00 1.25 0.25 0.75 1.00 1.25 0.25 0.00 0.25 0.50 1.00 0.00 0.50 0.00 0.50 1e6 1e6 1e6 Step Step 1e6 1e6 Step 1e6 Step Cumulative Tree Drop Reward Curiosity Value Estimate **Cumulative Distance Reward** Cumulative Normalized Distance Until Tree Drop Cumulative Distance to Existing Trees Episode Length 0.05 -0.05 0.05 source source source source source training training training training training value 0.5 -0.00 0.00 0.00 ≥ 300 × test test test -0.05-0.05-0.050.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 0.25 0.50 0.75 1.00 0.25 0.50 1.00 0.25 0.50 0.75 1.00 1.25 0.00 0.25 0.50 0.75 1.00 1.25 1e6 1e6 1e6 1e6 Step Step Step Step Step Step 1e6 Extrinsic Reward Extrinsic Value Estimate Cumulative Reward **Curiosity Reward** Policy Loss Value Loss source source source source 20 training training training Value - 02 Value 20 al 20 training 0.00 0.25 0.50 0.75 1.00 1.25 0.25 0.50 0.75 1.00 0.00 0.25 1.00 1.25 0.00 0.25 0.50 0.75 1.00 0.25 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 source 0.004 ტ 0.0002 ე training training training training training 0.15 를 0.5 -<u>s</u> 0.002 test test test 0.000 0.50 0.00 0.25 0.50 0.75 0.25 0.50 0.75 1.00 0.00 0.25 1.00 0.25 0.25 1.00 1e6 1e6 1e6 1e6 Step 1e6