DroneBasedReforestation Train & Test Metrics: Difficulty: 3, Task: 2 Entropy Out of Energy Count 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 --- training 00.0 Alue 1.450 source 0.00 0.00 test test training test 1.425 0.50 0.75 1.00 1.25 1.00 0.25 0.50 1.00 1.25 0.50 0.75 1.00 1.25 0.25 0.75 1.00 1.25 0.25 0.00 0.25 0.50 0.75 1.00 0.00 0.75 0.25 0.00 0.50 1e6 1e6 1e6 1e6 Step Step 1e6 1e6 Step Step Cumulative Tree Drop Reward Cumulative Normalized Distance Until Tree Drop Curiosity Value Estimate Cumulative Distance Reward Cumulative Distance to Existing Trees **Episode Length** 0.05 -0.05 0.05 source source source source source training training training training training 0.5 · 0.00 0.00 0.00 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 0.00 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 1e6 Step Step Step Step 1e6 Extrinsic Value Estimate Cumulative Reward **Curiosity Reward Extrinsic Reward** Policy Loss Value Loss source source source source training training training 9 <u>10</u> 20 value 02 g 20 -0.00 0.25 0.50 0.75 1.00 1.25 0.25 0.50 0.75 1.00 0.00 0.25 0.75 1.00 0.50 1.00 1.25 0.25 0.50 0.75 1.00 0.25 1e6 Step 1e6 Step 1e6 Step 1e6 Step Step 1e6 Step **Epsilon Curiosity Forward Loss** Learning Rate Beta Curiosity Inverse Loss 0.20 source source source source source 0.004 စ္ 0.0002 training training training training training 0.15 test <u>0.002</u> test test 0.000 0.50 1.00 0.00 0.25 0.50 0.75 1.00 0.25 0.50 0.75 1.00 0.00 0.25 1.00 0.25 0.25 1e6 1e6 1e6 1e6 Step 1e6