DroneBasedReforestation Train & Test Metrics: Difficulty: 6, Task: 2 Entropy Tree Drop Count Recharge Energy Count Save Location Count Out of Energy Count Cumulative Distance Until Tree Drop 1.475 0.05 0.05 +source source source source Value 700 200 source --- training training training --- training 1.450 training 0.00 0.00 0.00 test test 1.425 -0.050.50 0.75 1.00 0.75 1.00 0.25 0.50 1.00 1.25 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 0.75 0.25 0.50 0.00 0.50 1e6 1e6 1e6 Step Step 1e6 1e6 Step 1e6 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 0.25 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 1e6 Step Step Step Step 1e6 Extrinsic Value Estimate Cumulative Reward **Curiosity Reward Extrinsic Reward** Policy Loss Value Loss source source source source source Value Value training training training training training training 9 20 20 Value - 02 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 1.00 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 이.5 · test <u>0.002</u> test test 0.000 0.50 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