DroneBasedReforestation Train & Test Metrics: Difficulty: 10, Task: 2 Recharge Energy Count Out of Energy Count Entropy Tree Drop Count Save Location Count Cumulative Distance Until Tree Drop 0.05 0.05 -0.05 +500 source source source source --- training training training --- training Alue 250 -9 1.44 -0.00 0.00 0.00 test test training test 1.42 0.50 0.75 1.00 1.25 0.75 1.00 0.25 0.50 1.00 1.25 0.25 0.75 1.00 0.25 0.75 1.00 1.25 0.25 0.00 0.25 0.50 1.00 0.00 0.75 0.00 0.50 1.25 0.00 0.50 1e6 1e6 1e6 Step Step 1e6 Step 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 V 300 -0.00 0.00 0.00 0.5 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 1e6 Step Step Step Step Extrinsic Value Estimate Cumulative Reward **Curiosity Reward Extrinsic Reward** Policy Loss Value Loss source source source source training os que Value Value 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 0.25 0.50 1.00 1.25 0.25 0.50 0.75 1.00 0.25 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step Learning Rate **Epsilon Curiosity Forward Loss** Beta Curiosity Inverse Loss 0.20 source source source source 0.004 e 0.0002 d training training training training 9 0.15 <u>0.002</u> test test 0.000 0.0000 -0.00 0.25 0.50 0.75 0.25 0.50 0.75 1.00 0.00 1.00 0.25 0.50 0.25 0.50 1.00 0.25 1e6 1e6 1e6 1e6 Step 1e6