## DroneBasedReforestation Train & Test Metrics: Difficulty: 10, Task: 0 Out of Energy Count Entropy Tree Drop Count Recharge Energy Count Save Location Count Cumulative Distance Until Tree Drop 0.05 -100 source source source Value 725 training training 1.44 | 1.44 source 0.00 0.5 training training 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 0.25 0.50 1.00 0.50 1.00 0.25 0.50 0.75 1.00 1.00 0.00 0.00 0.00 0.25 0.75 0.25 0.50 0.75 1e6 1e6 1e6 Step Step 1e6 1e6 Step 1e6 Step Cumulative Tree Drop Reward **Cumulative Distance Reward** Curiosity Value Estimate Cumulative Normalized Distance Until Tree Drop Cumulative Distance to Existing Trees Episode Length 1.0 source source source 0.4 source /alue training ₹ 350 g 0.2 ē 0.5 training 0.50 0.75 1.00 1.25 0.25 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 1.25 0.25 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 Step 1e6 Step Step 1e6 1e6 Step Extrinsic Value Estimate Cumulative Reward **Curiosity Reward Extrinsic Reward Policy Loss** Value Loss source 20 source source source training training ह्य 10 -⊒ 20 -0.01 0.00 0.25 0.50 0.75 1.00 1.25 0.00 0.25 0.50 0.75 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 0.00 0.25 0.50 0.75 1.00 1.25 1.00 0.25 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 **Epsilon Curiosity Forward Loss** Learning Rate Beta **Curiosity Inverse Loss** 0.20 source source 0.004 e 0.0002 d training training 0.15 source <u>o</u> 0.002 training 0.0000 -0.000 1.00 0.25 0.25 0.00 1.00 0.25 0.25 0.50 0.00 0.50 1.00 0.25 0.50 1e6 1e6 1e6 1e6 Step 1e6