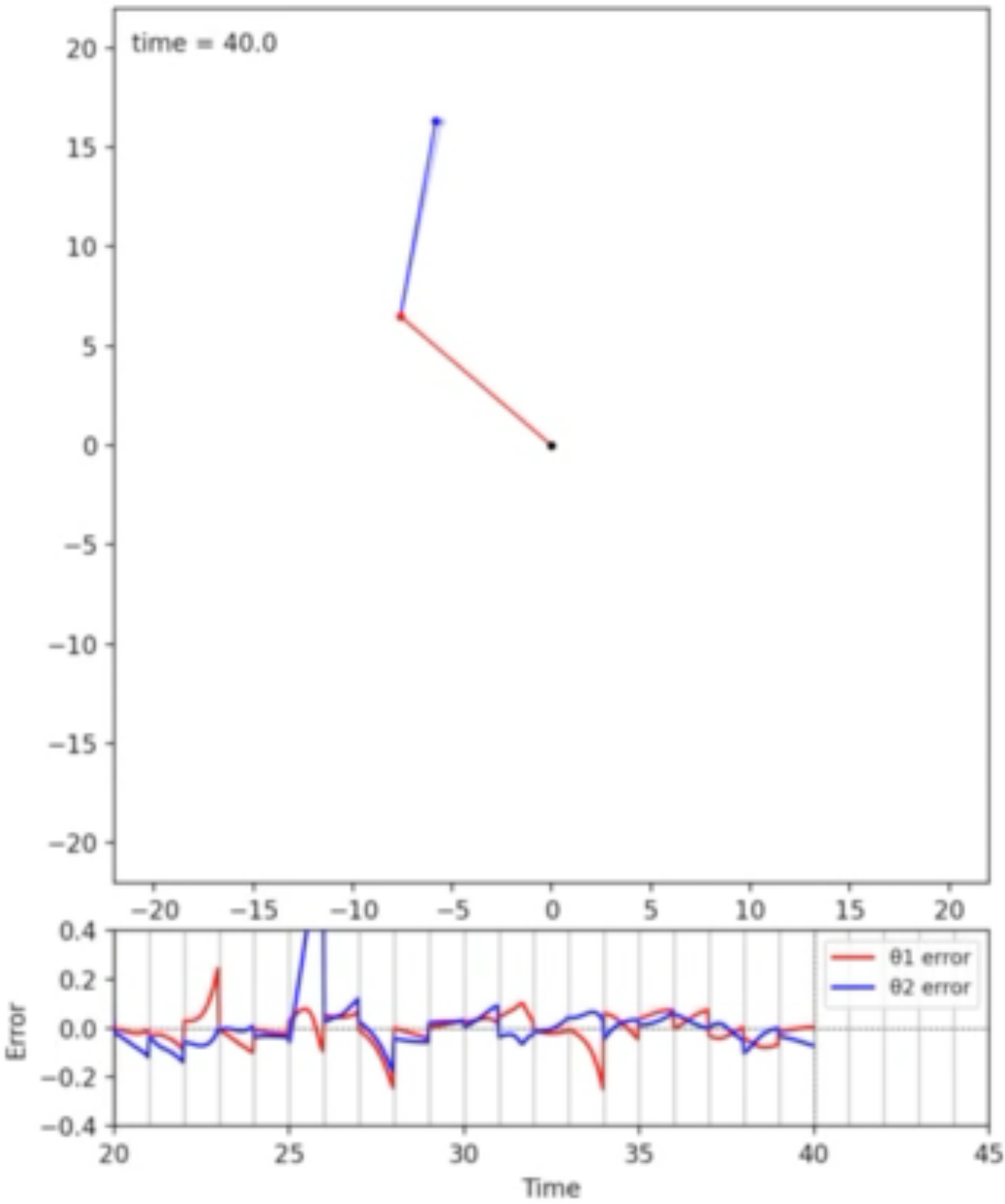
Experiment

Experiment 1: Observation is Analysis（每1秒分析一次，分析值即觀測值）

Experiment 1 Observation is Analysis

Forecast Analysis Cycle Period: 1



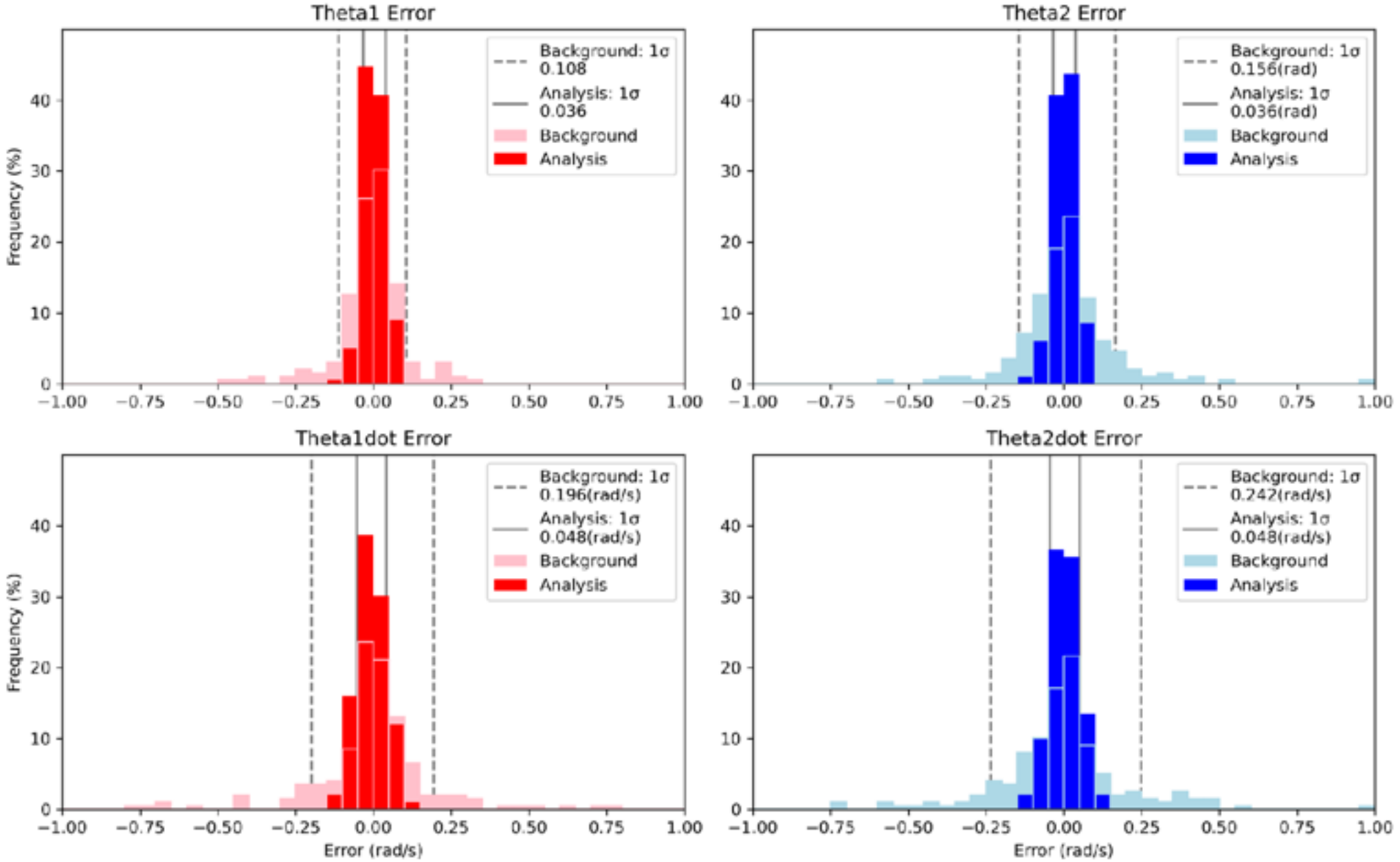
θ_1分析標準差：0.036 (rad)

$\dot{\theta}_1$分析標準差：0.048 (rad/s)

θ_2分析標準差：0.036 (rad)

$\dot{\theta}_2$分析標準差：0.048 (rad)

Experiment 1: Analysis vs Background

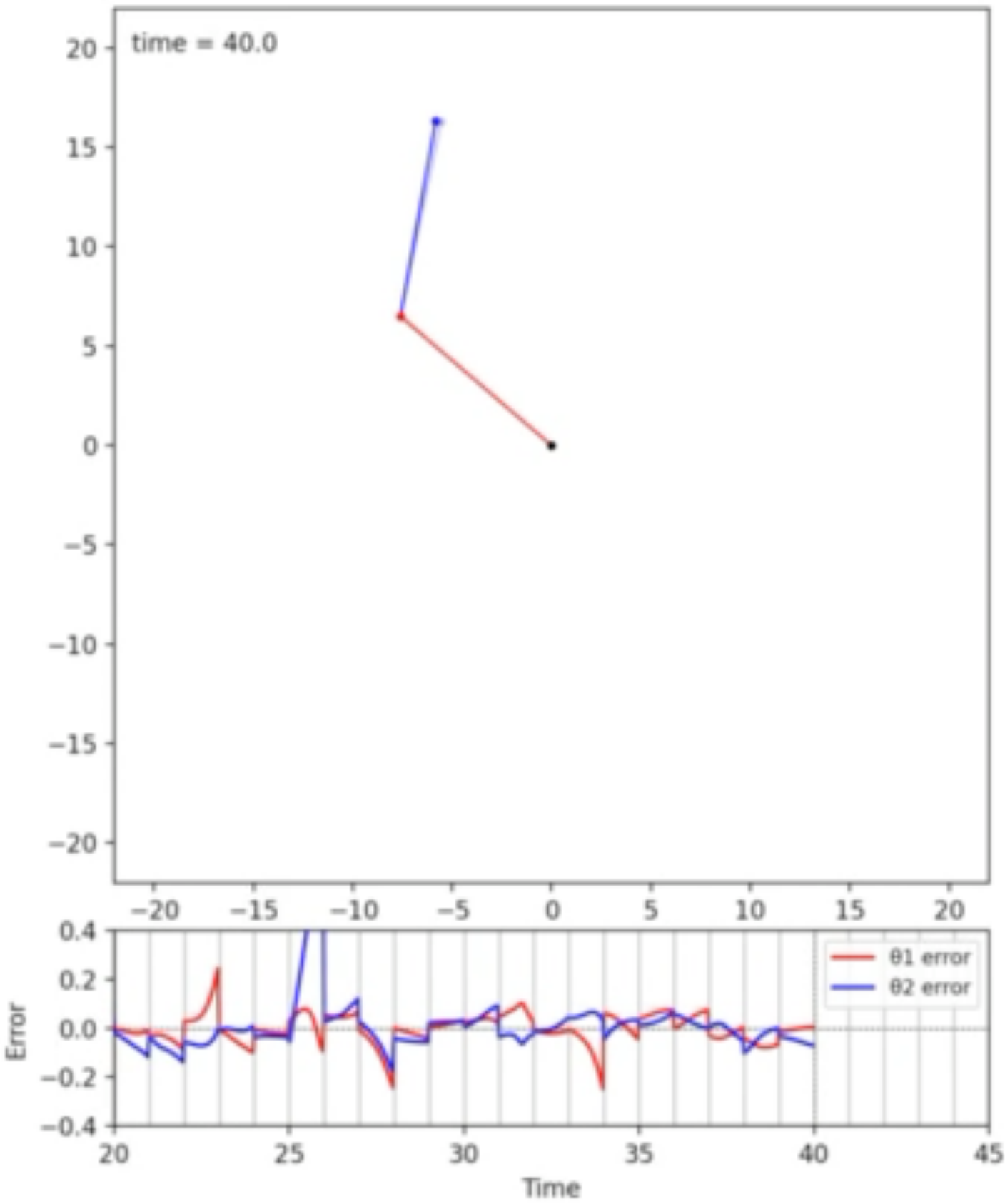


分析(即觀測)誤差相較於**背景誤差**改變了多少？

觀測即分析時

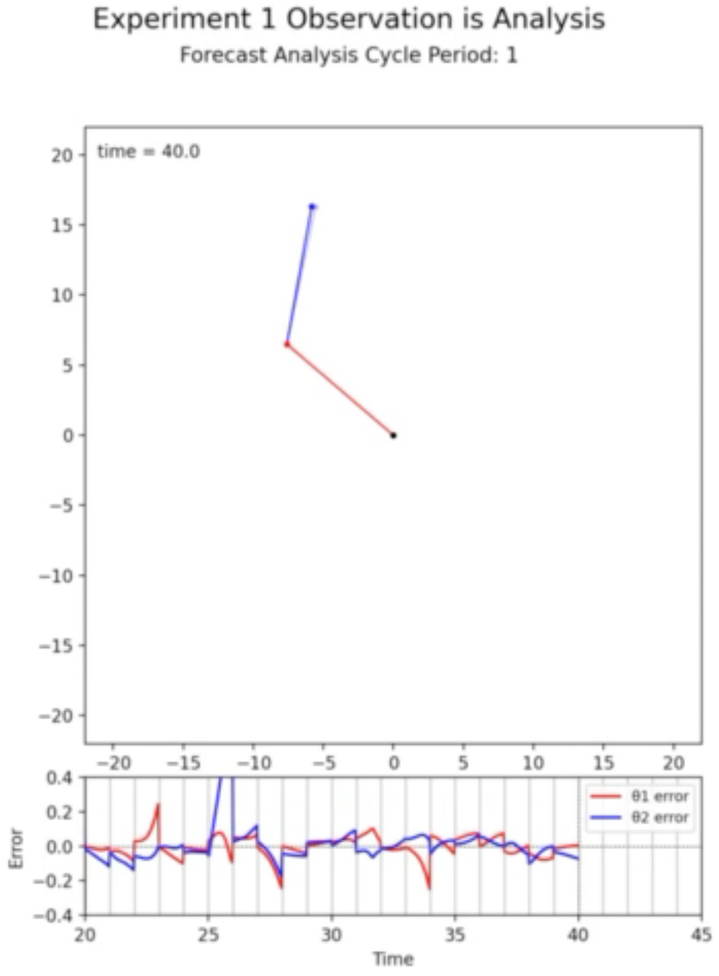
Experiment 1 Observation is Analysis

Forecast Analysis Cycle Period: 1

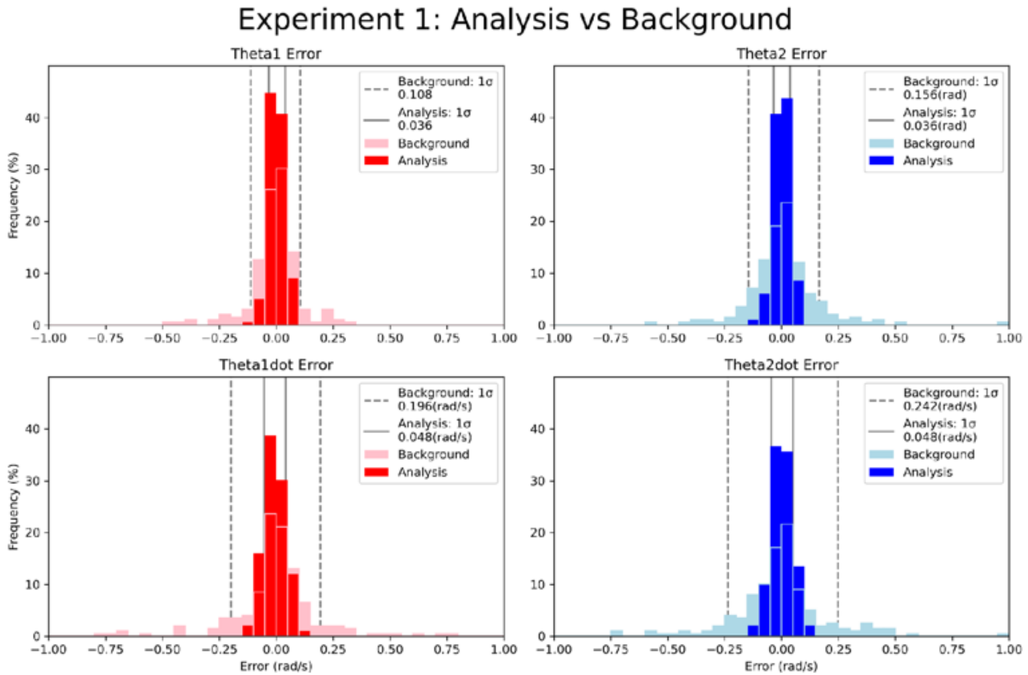


Experiment

Experiment 1: Observation is Analysis（每1秒分析一次，分析值即觀測值）



分析(即觀測)誤差相較於**背景誤差**改變了多少？



觀測即分析時

θ_1分析標準差：0.036 (rad)

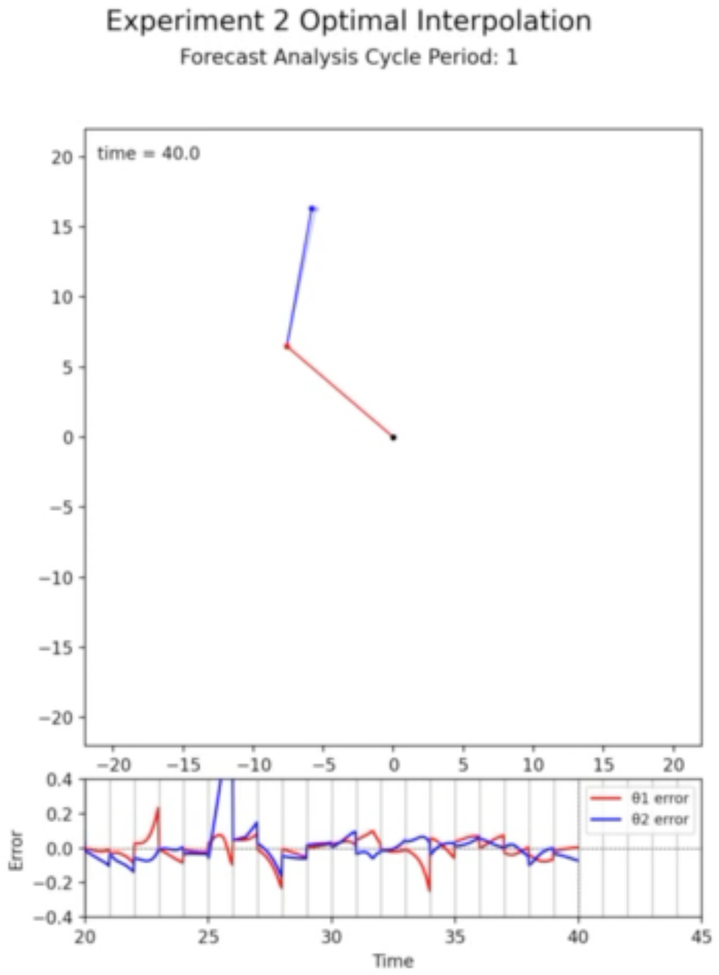
$\dot{\theta}_1$分析標準差：0.048 (rad/s)

θ_2分析標準差：0.036 (rad)

$\dot{\theta}_2$分析標準差：0.048 (rad)

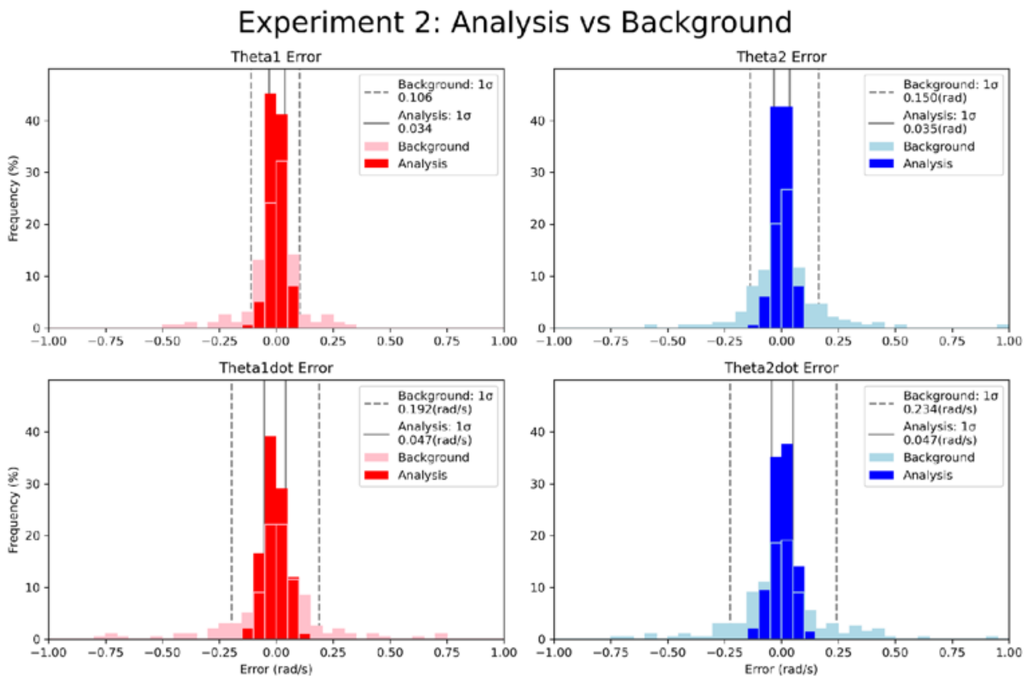
Experiment

Experiment 2: Optimal Interpolation（每1秒分析一次，最佳內插法）



註：**B**的計算方法為，**B=R**，後經不斷與真值比較並迭代出收斂的**B**

分析誤差相較於**背景誤差**改變了多少？



此實驗相較於**觀測即分析**時

θ_1分析標準差：~~0.036~~0.034 (rad)

$\dot{\theta}_1$分析標準差：~~0.048~~0.047 (rad/s)

θ_2分析標準差：~~0.036~~0.035 (rad)

$\dot{\theta}_2$分析標準差：~~0.048~~0.047 (rad/s)