

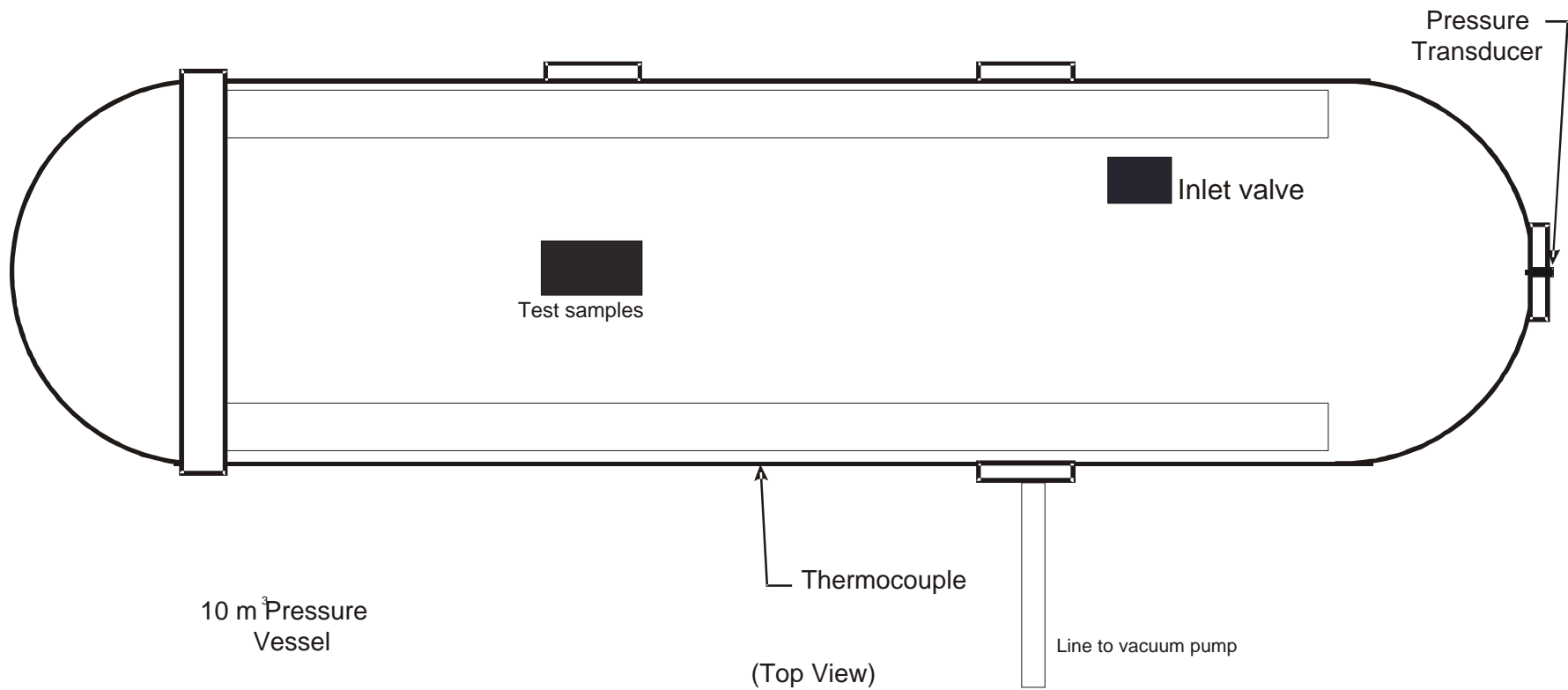
# Cargo Fire Suppression by Depressurization Tests

Dick Hill  
AJP-632; Fire Safety Team  
Wm. J. Hughes Technical Center  
Federal Aviation Administration

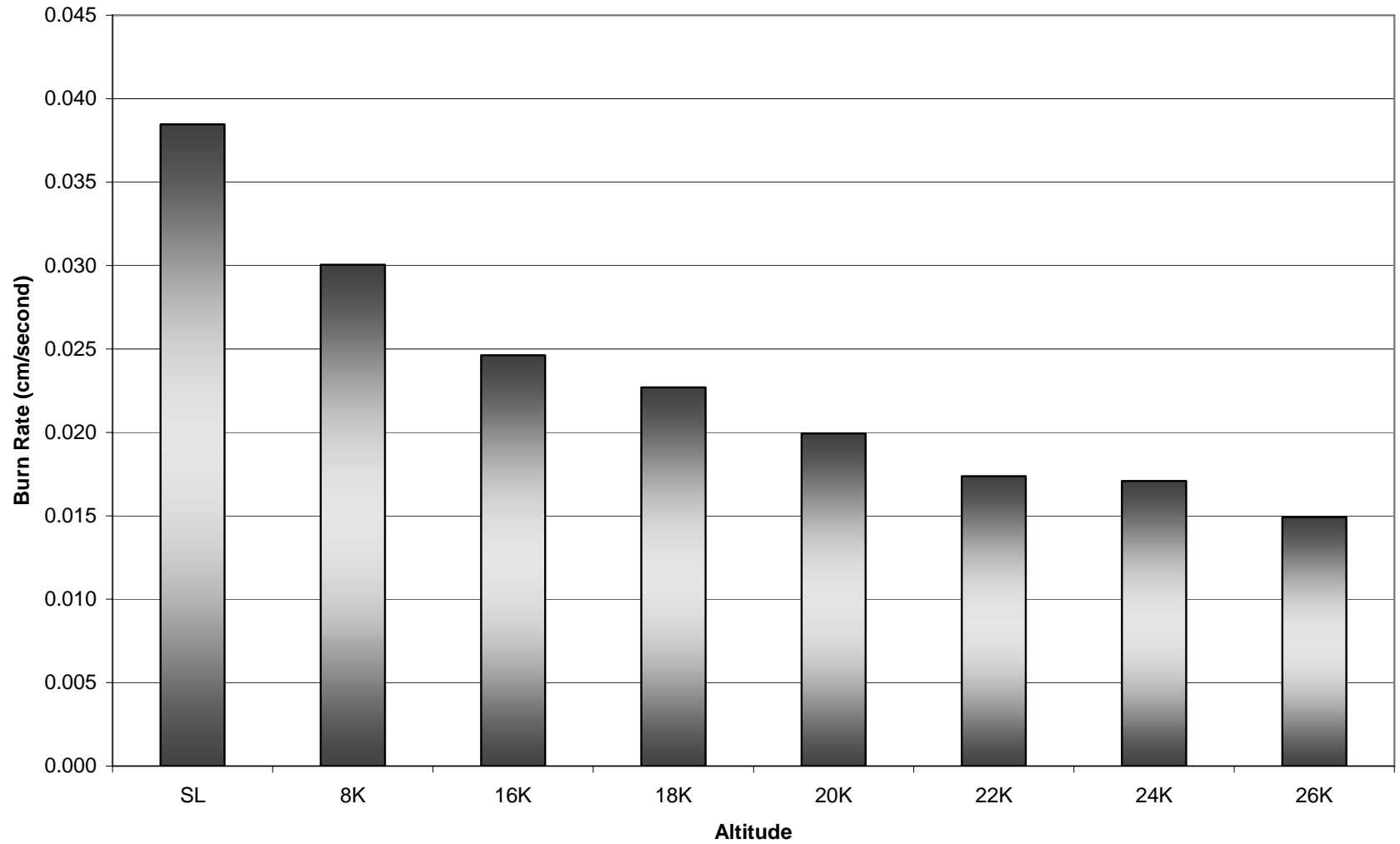


Federal Aviation  
Administration

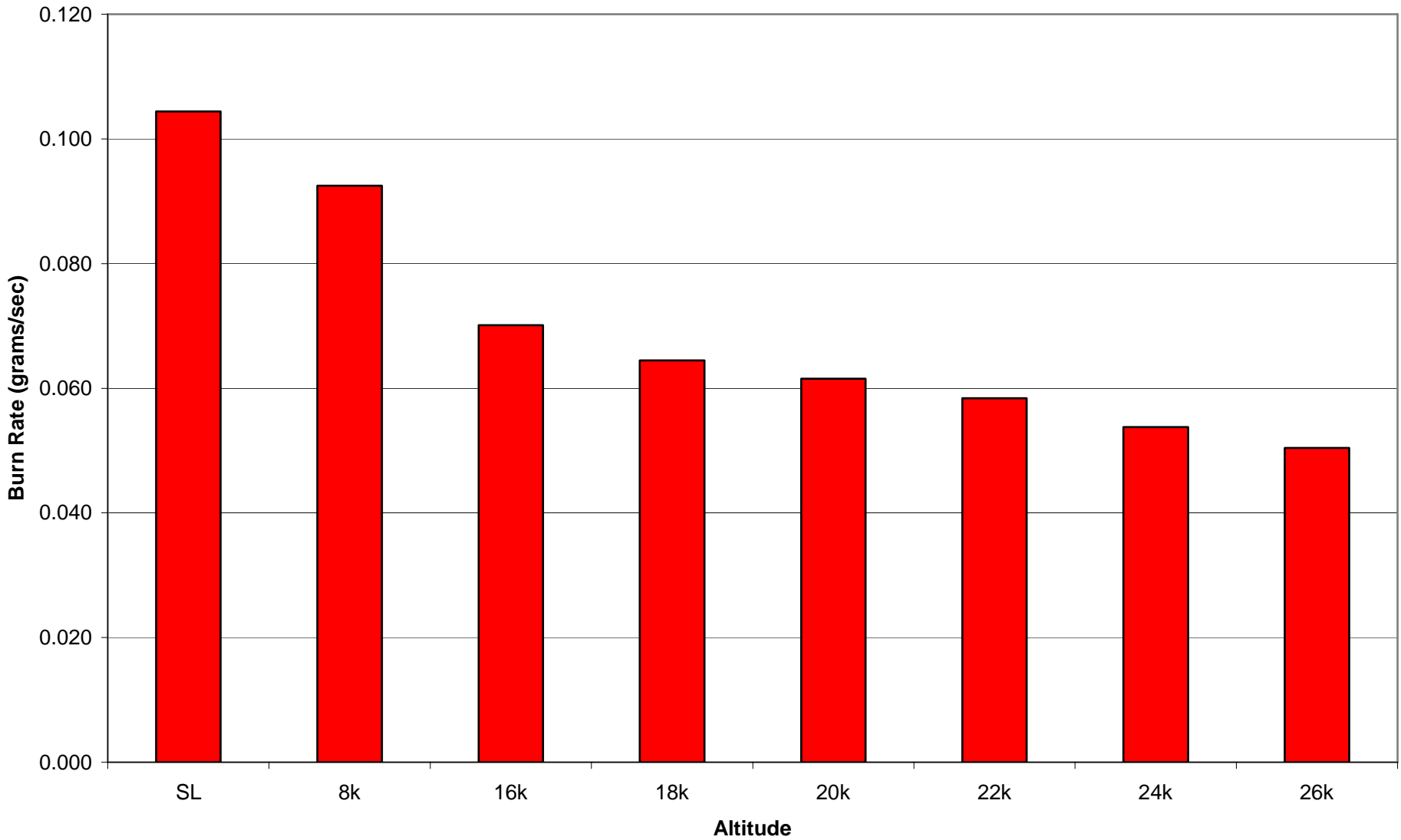




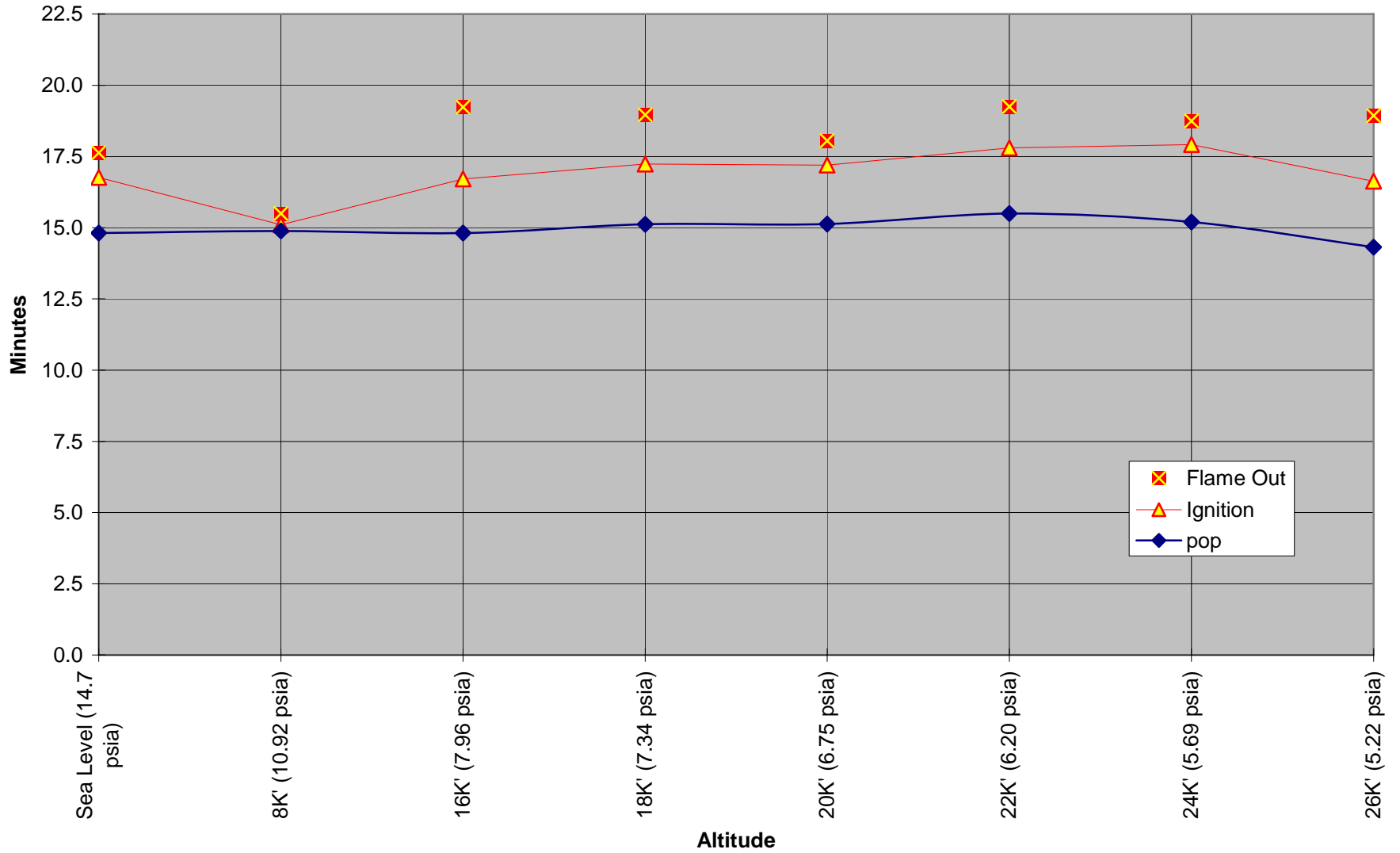
## Acrylic Burn Rate vs Altitude



# JetA Burn Rate vs Altitude

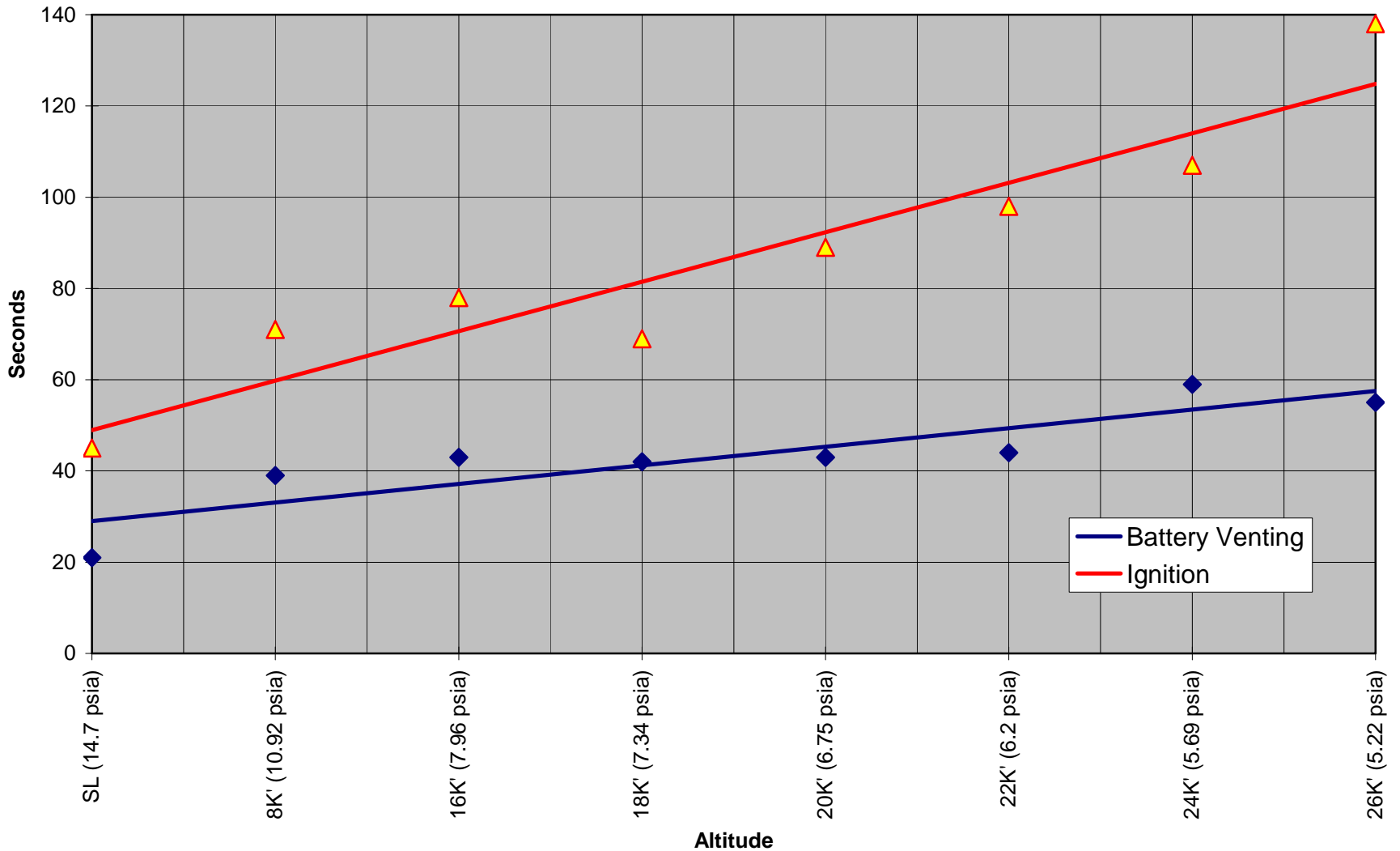


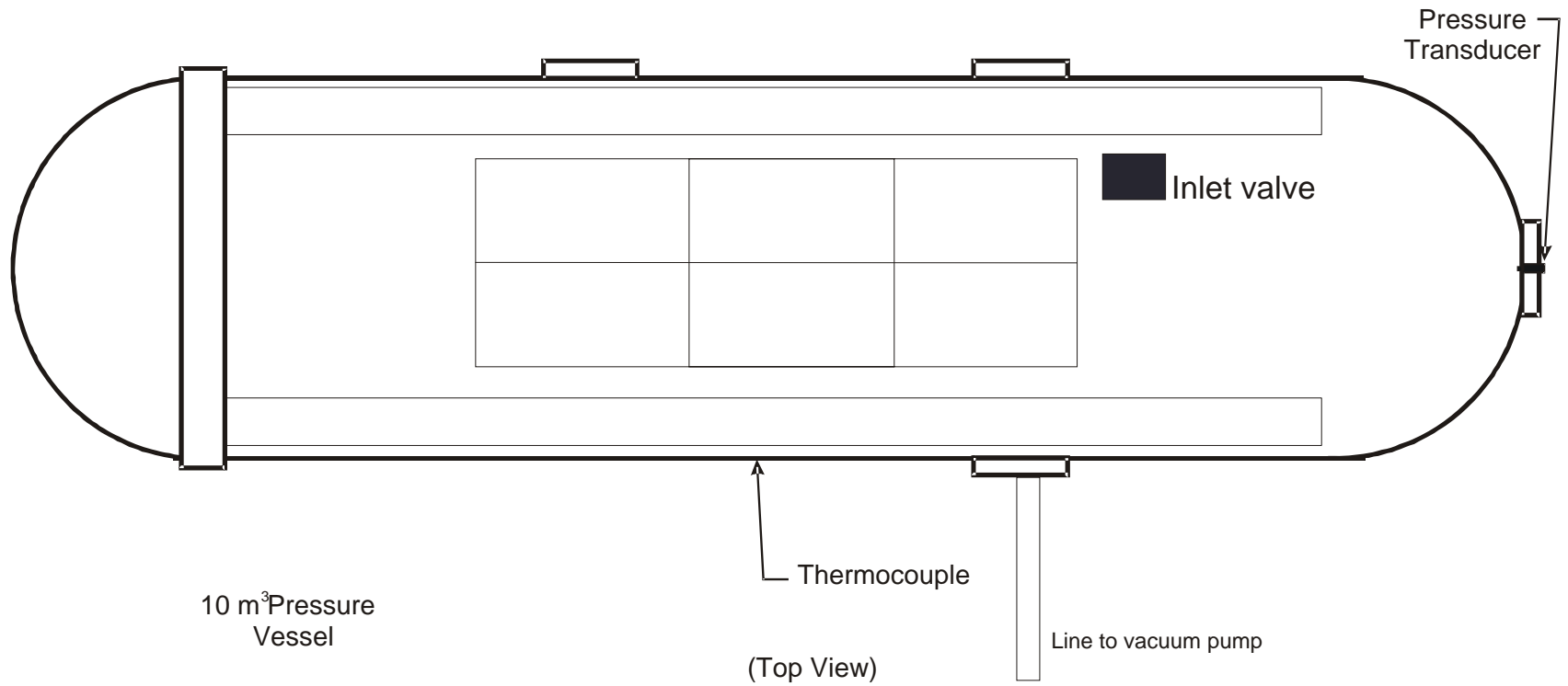
# Heated Lithium Ion Battery vs Altitude



# Altitude vs Time to Battery Venting & Ignition

## 1.6 L/min Propane Flame - 10g Single Lithium Primary Battery

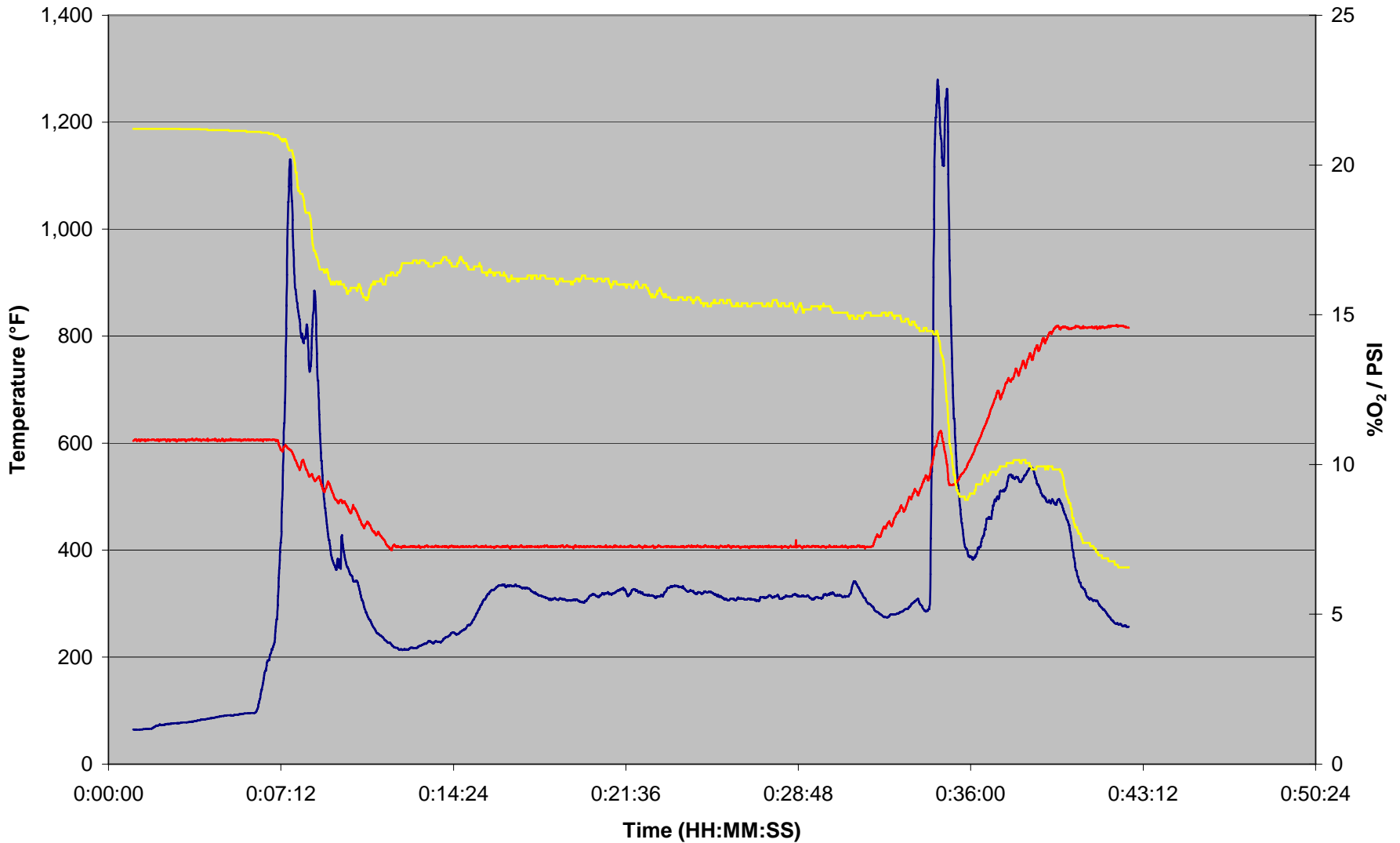








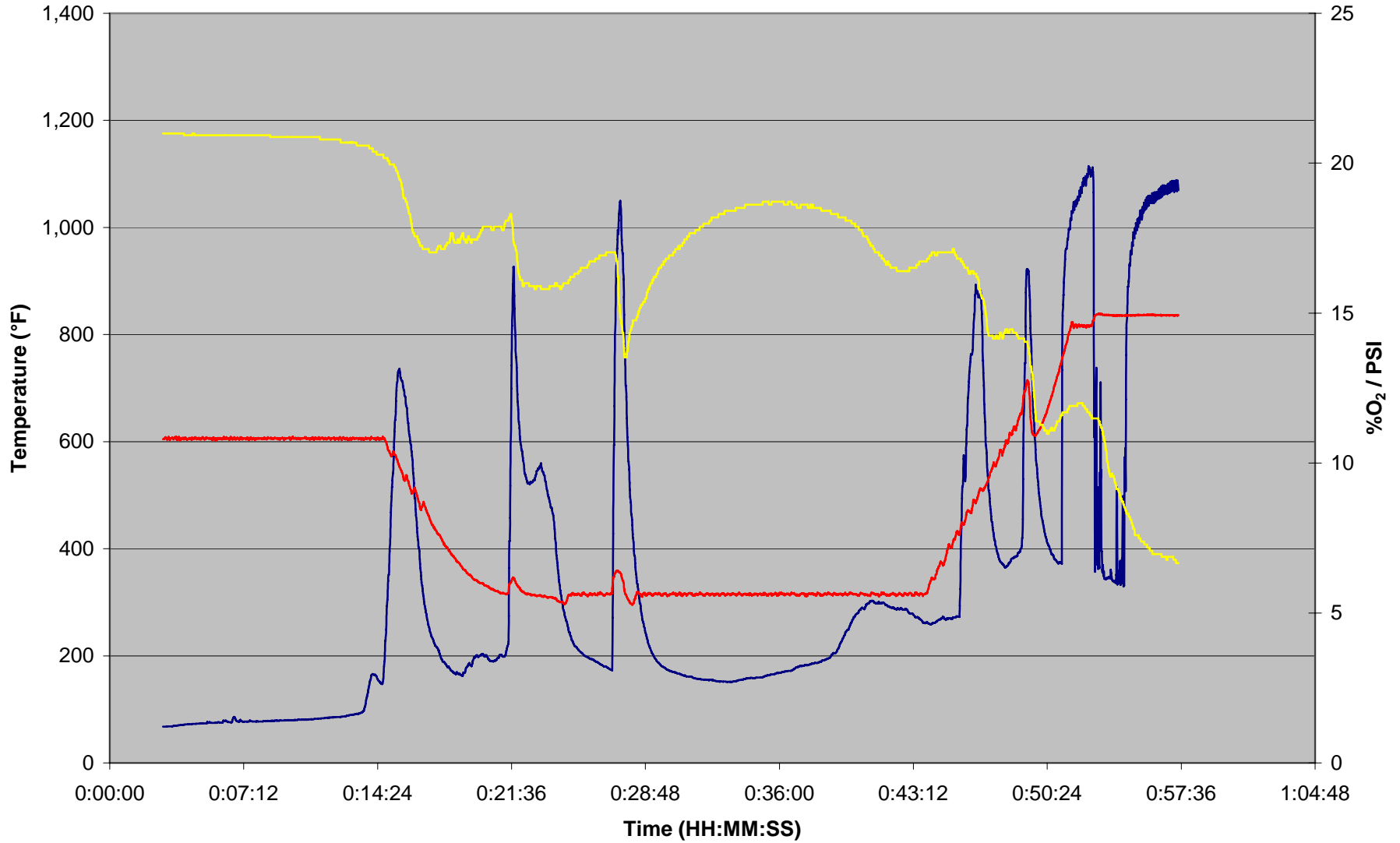
# 8,000 Feet to 18,000 Feet



— Ch #1: T/C 1 (°F) — Ch #5: PressTrans (PSI) — Ch #8: Oxygen Analyzer (%O<sub>2</sub>)



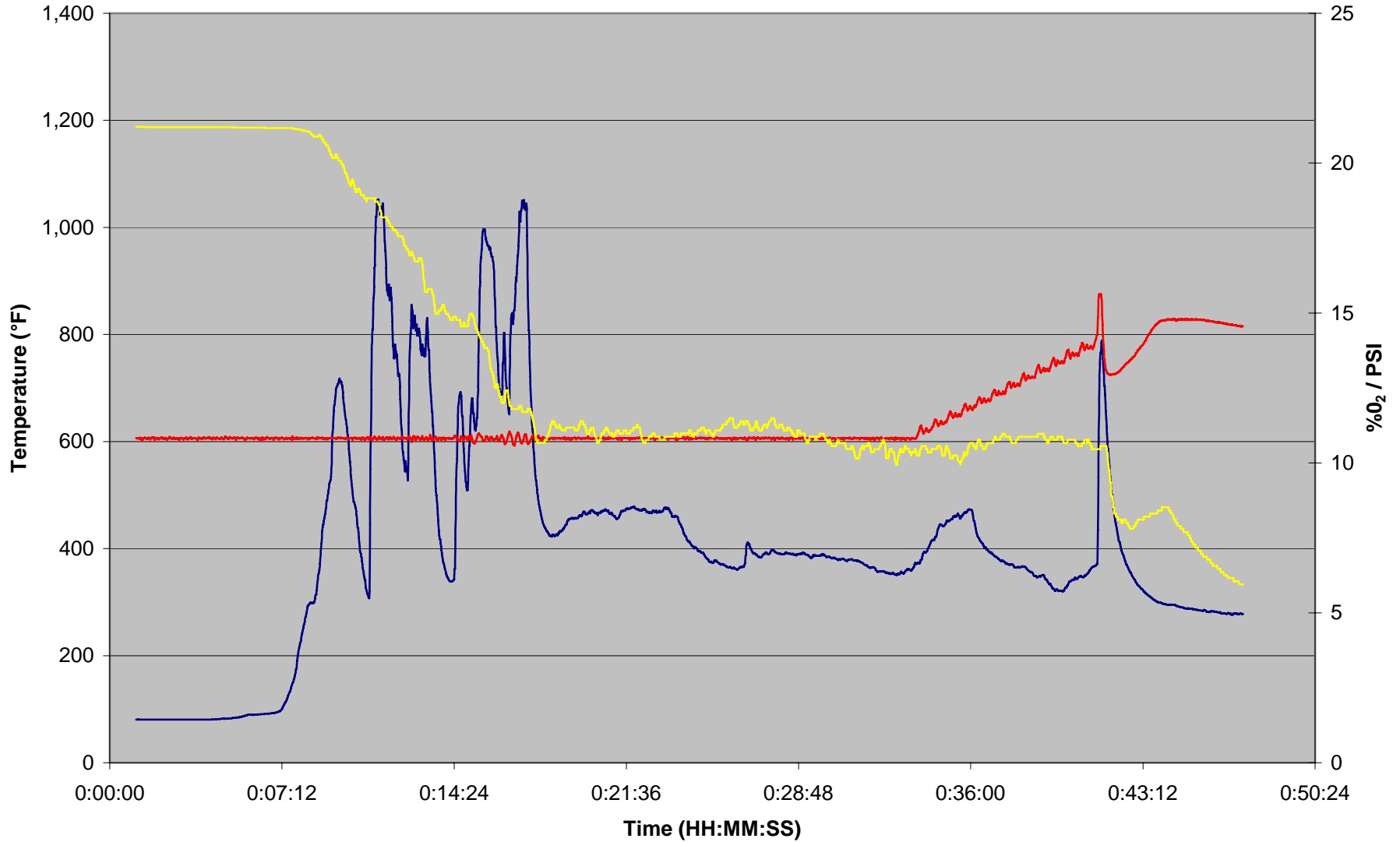
# 8,000 Feet to 24,000 Feet



— Ch #1: T/C 1 (°F) — Ch #5: PressTrans (PSI) — Ch #8: Oxygen Analyzer (%O<sub>2</sub>)



# Cruise @ 8,000 Feet



— Ch #1: T/C 1 (°F) — Ch #5: PressTrans (PSI) — Ch #8: Oxygen Analyzer (%O<sub>2</sub>)

