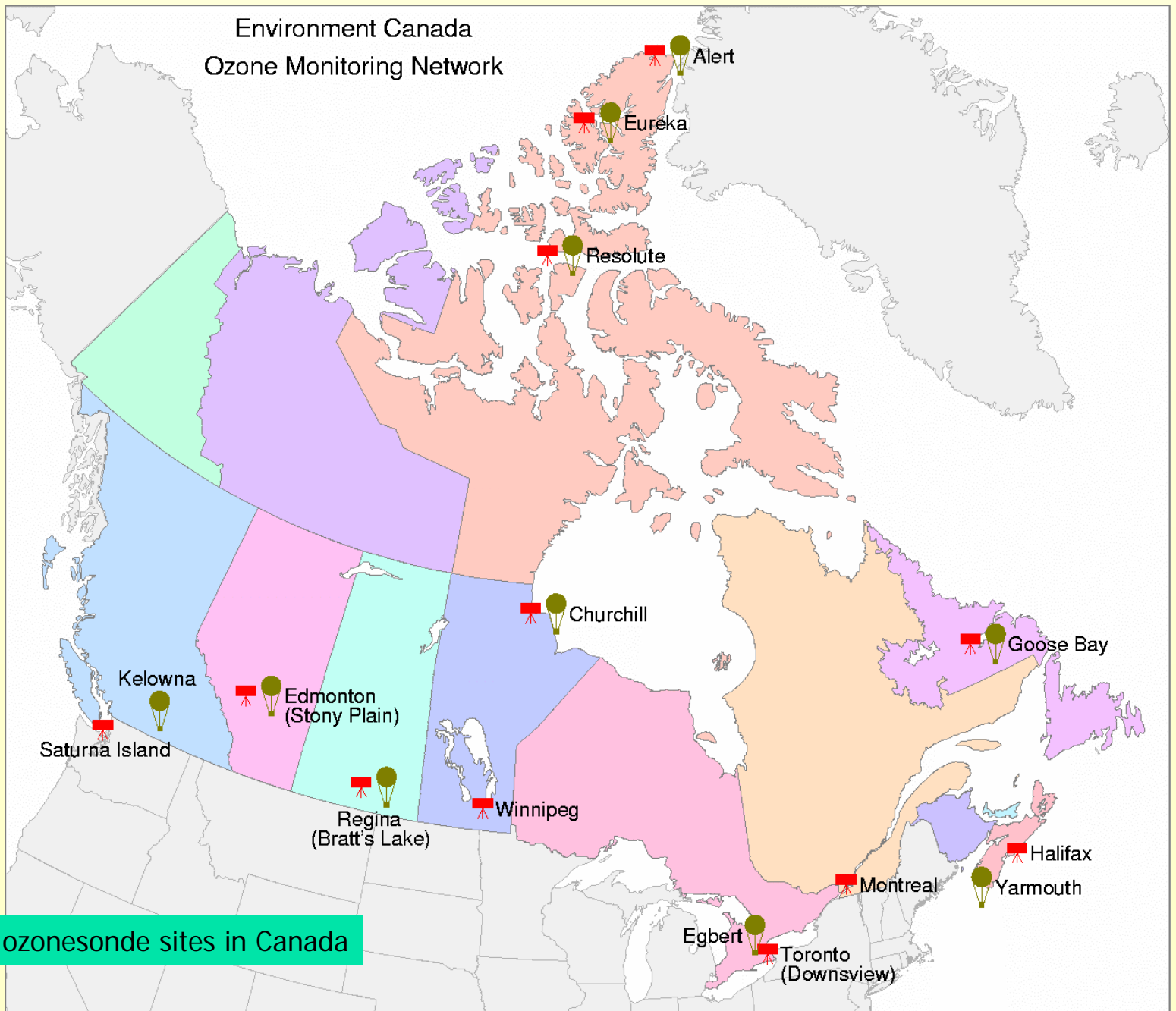




Environment Canada  
Ozone Monitoring Network



Brewer and ozonesonde sites in Canada

# AURAMS Overview

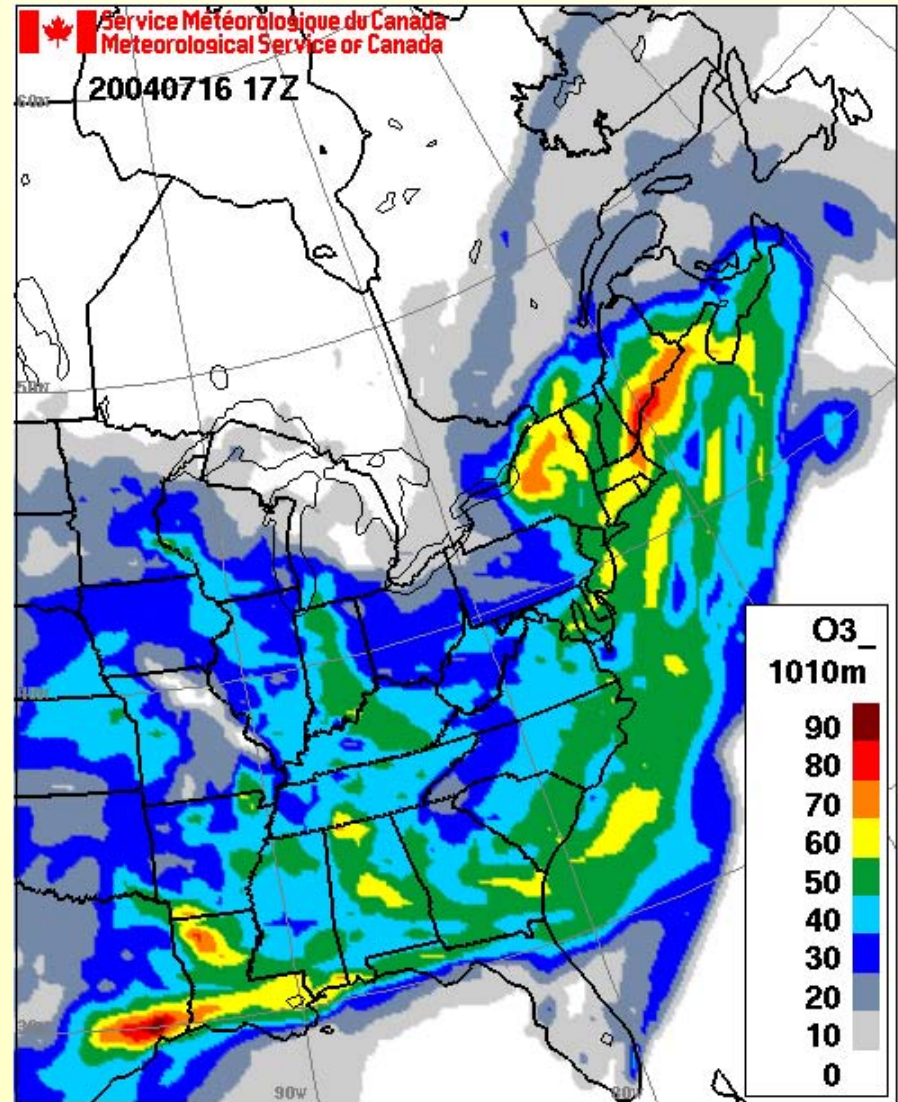
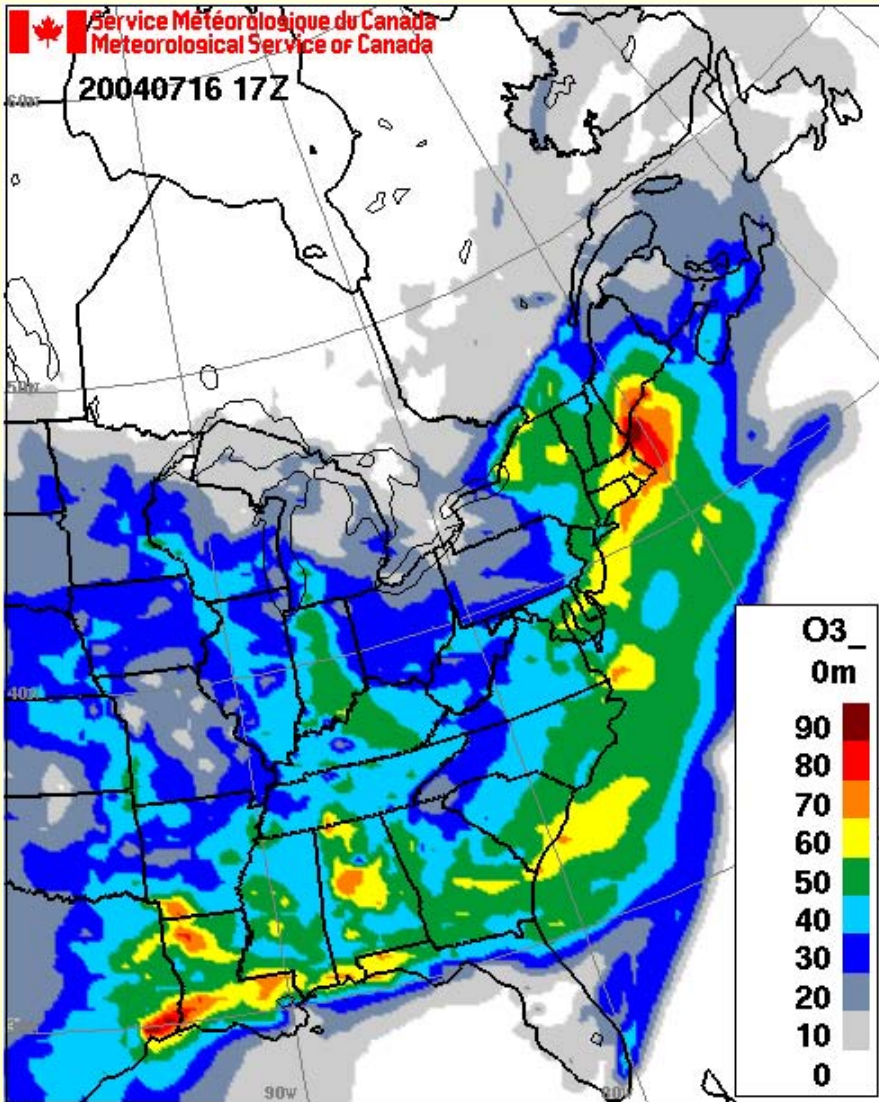
Episodic, Eulerian, regional, size-resolved, chemically-characterized particulate-matter (PM) modelling system intended initially for research and policy support

“unified’ in that it considers multiple air pollutants and can be applied to multiple AQ issues (PM, O<sub>3</sub>, acid deposition) for integrated AQ management

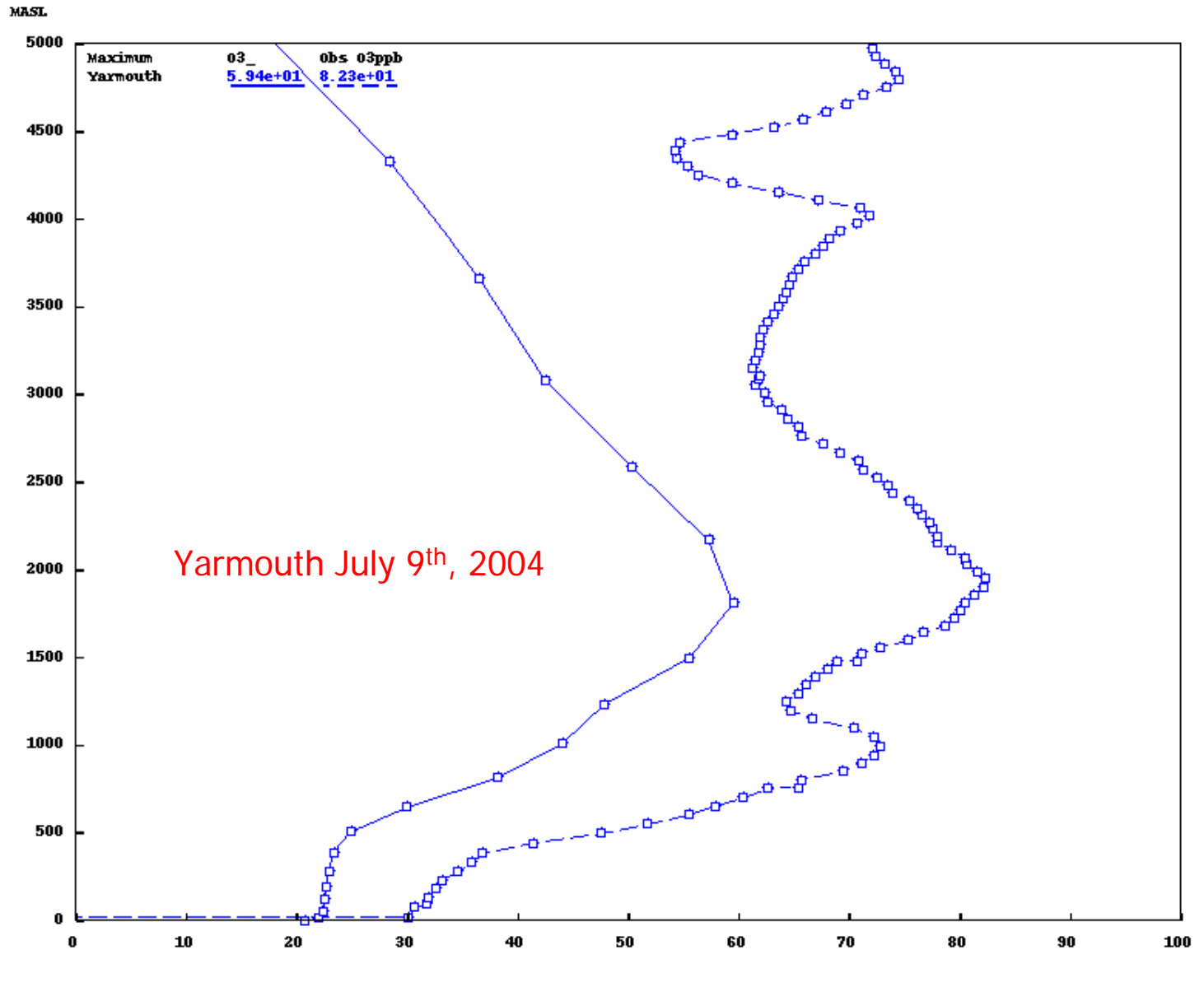
consists of three main components:

- ⊕ regional emissions processing system;
- ⊕ prognostic regional meteorological model;
- ⊕ regional sectional PM air-quality model

current PM resolution: 12 size bins (0.01-40.96 μm) and 8 chemical components (SO<sub>4</sub><sup>-</sup>, NO<sub>3</sub><sup>-</sup>, NH<sub>4</sub><sup>+</sup>, BC, OC, CM, SS, H<sub>2</sub>O)

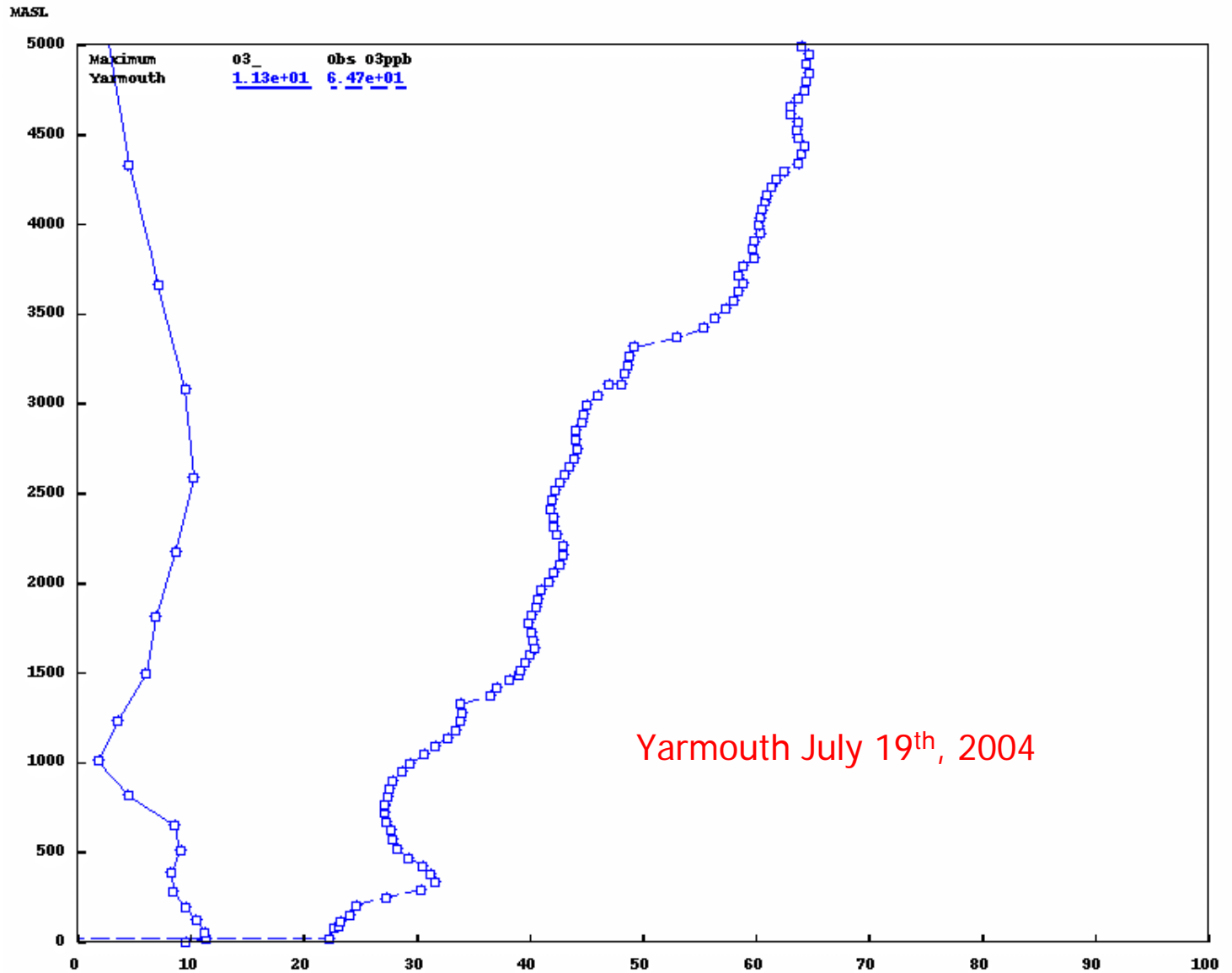


# Vertical profile



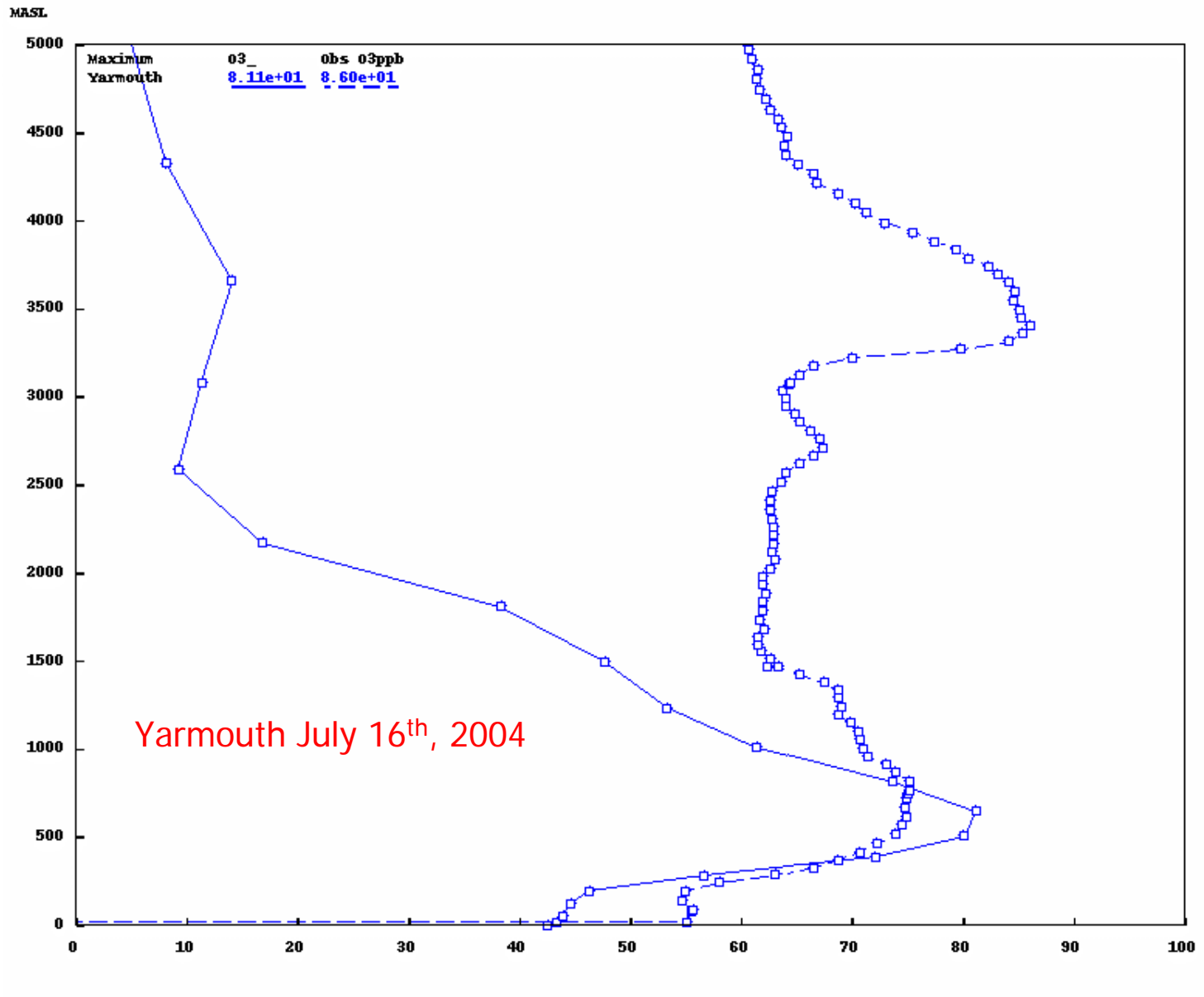
Yarmouth July 9th, 2004

# Vertical profile

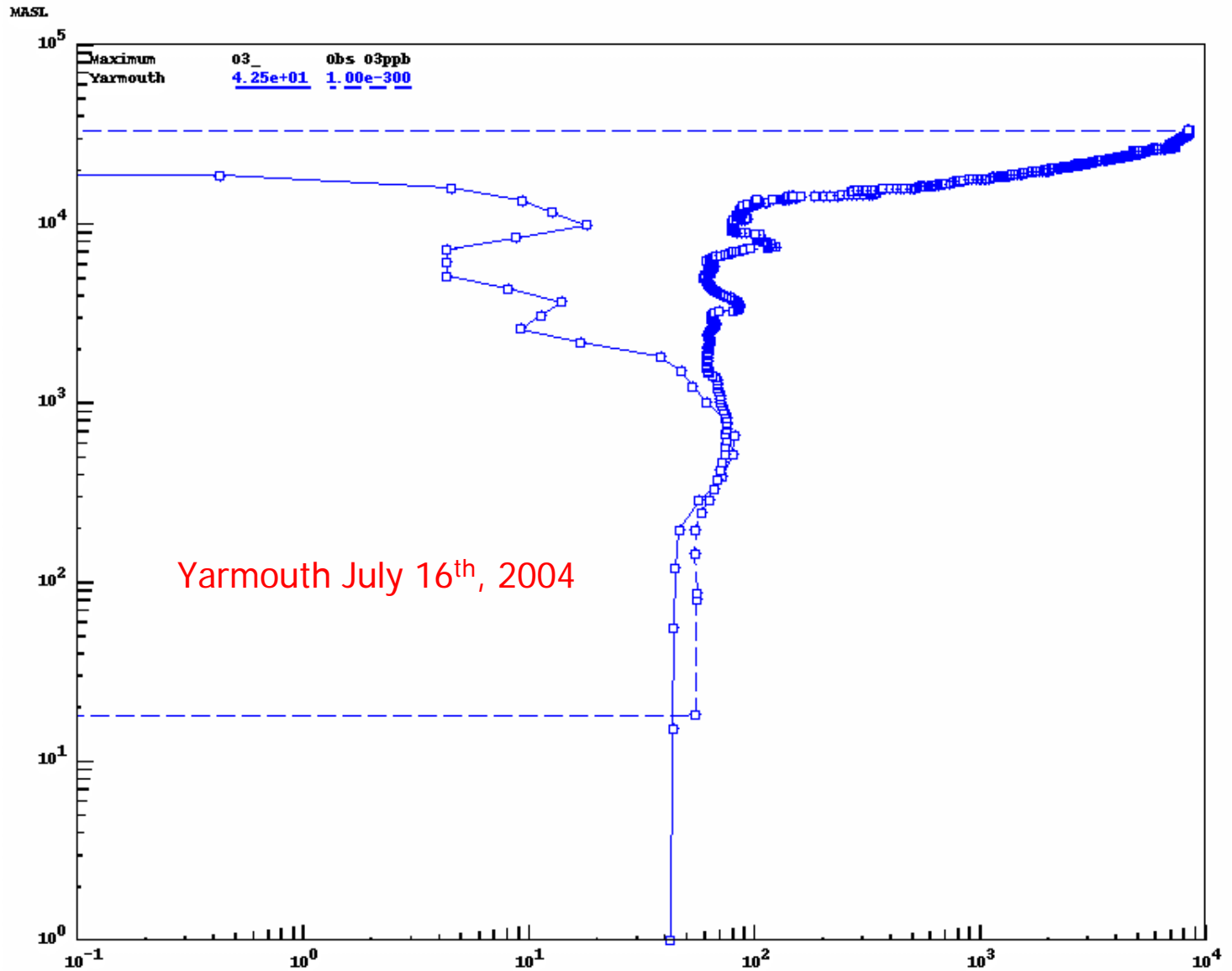


Yarmouth July 19<sup>th</sup>, 2004

# Vertical profile



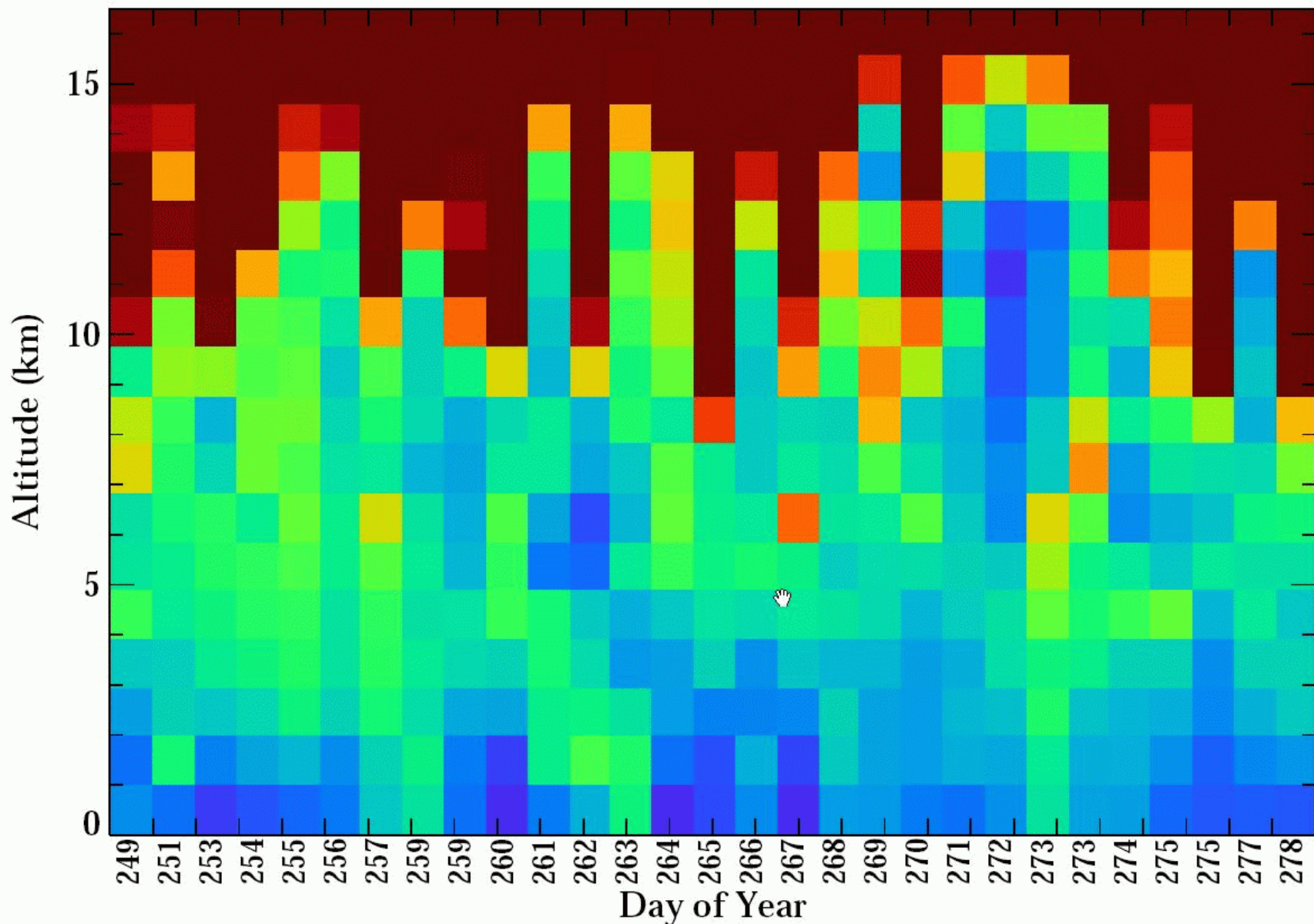
# Vertical profile



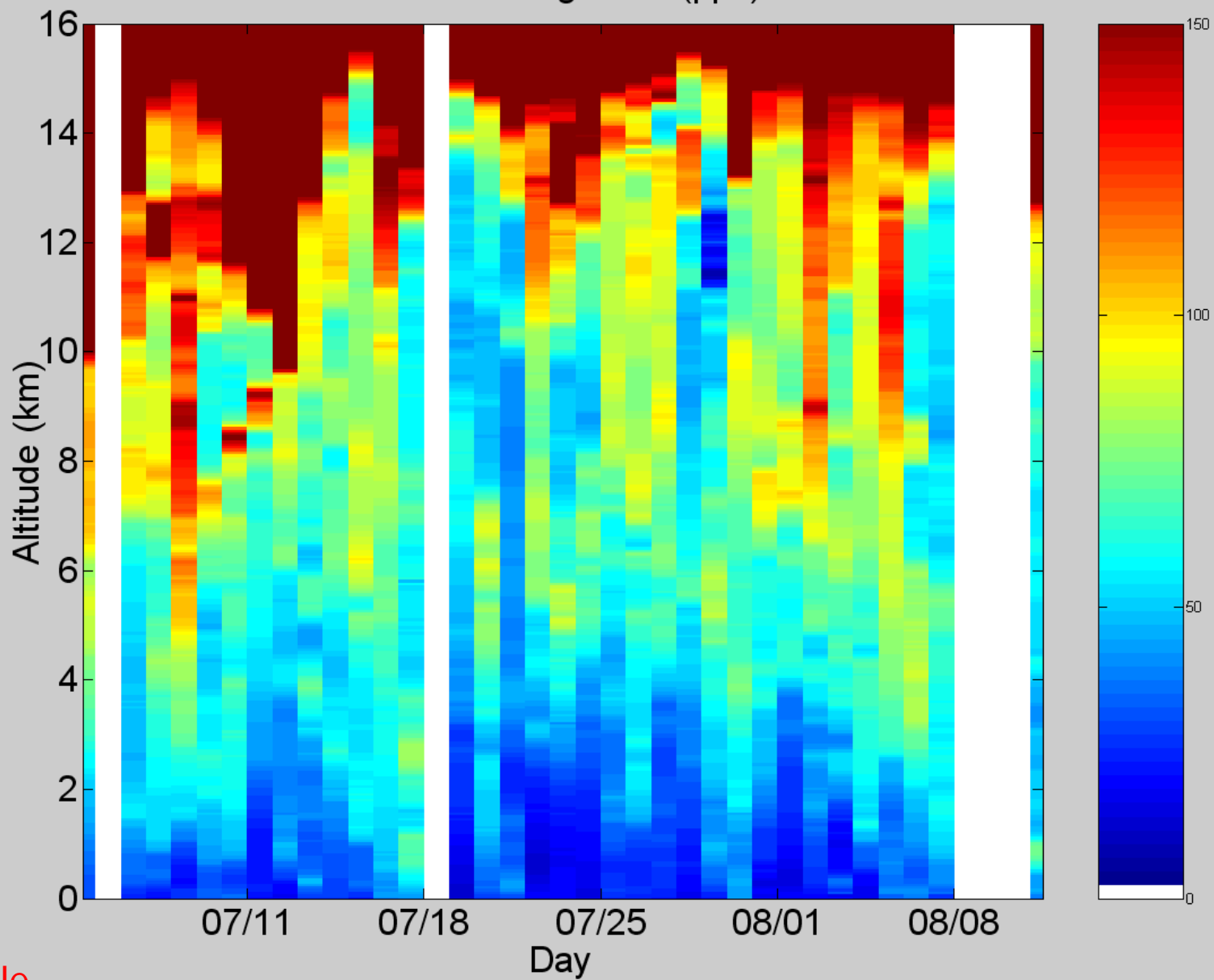


# Sable Island: Sept 06- Oct 05 1997

## Ozone Mixing Ratio (ppbv)

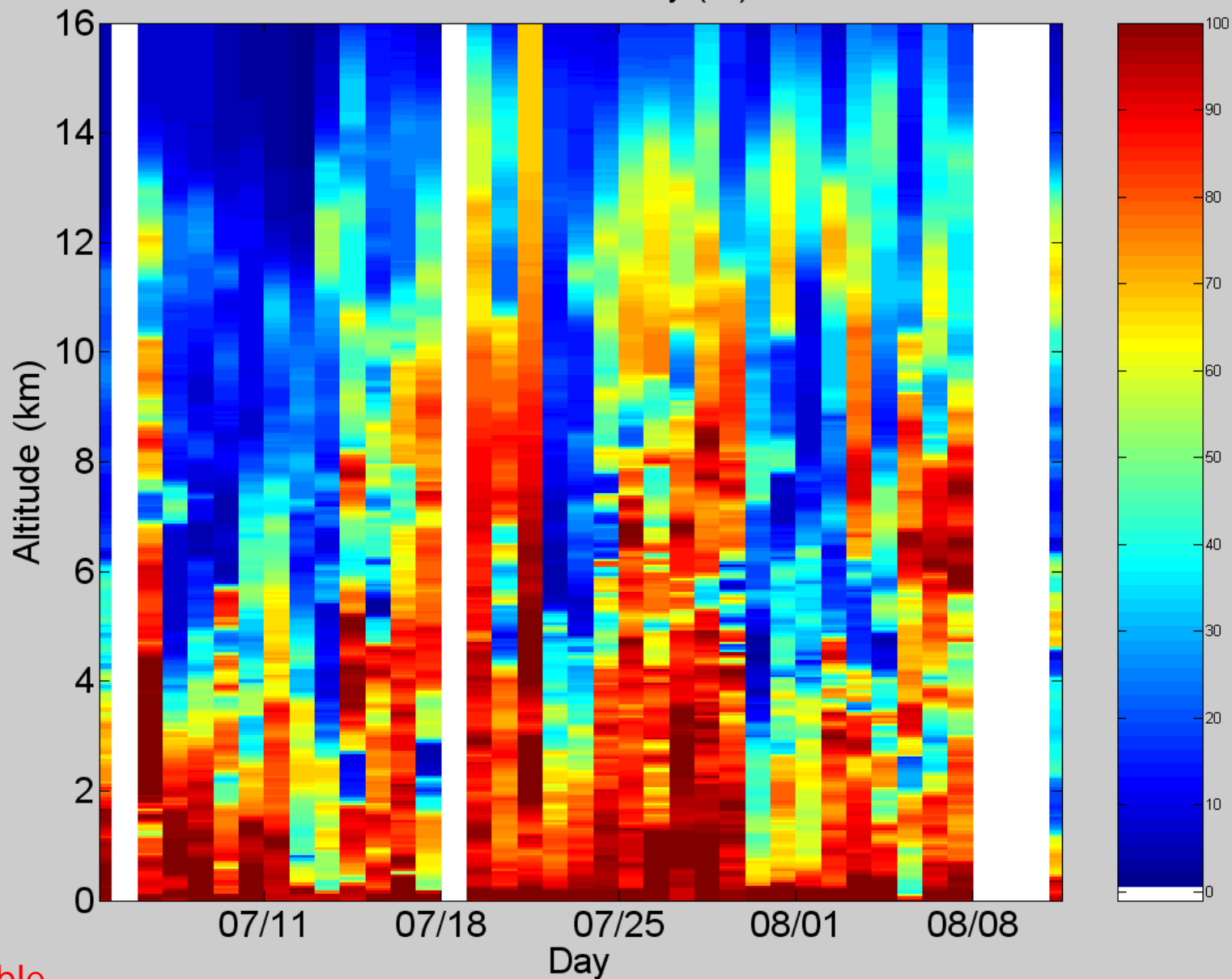


# Ozone Mixing Ratio (ppb)



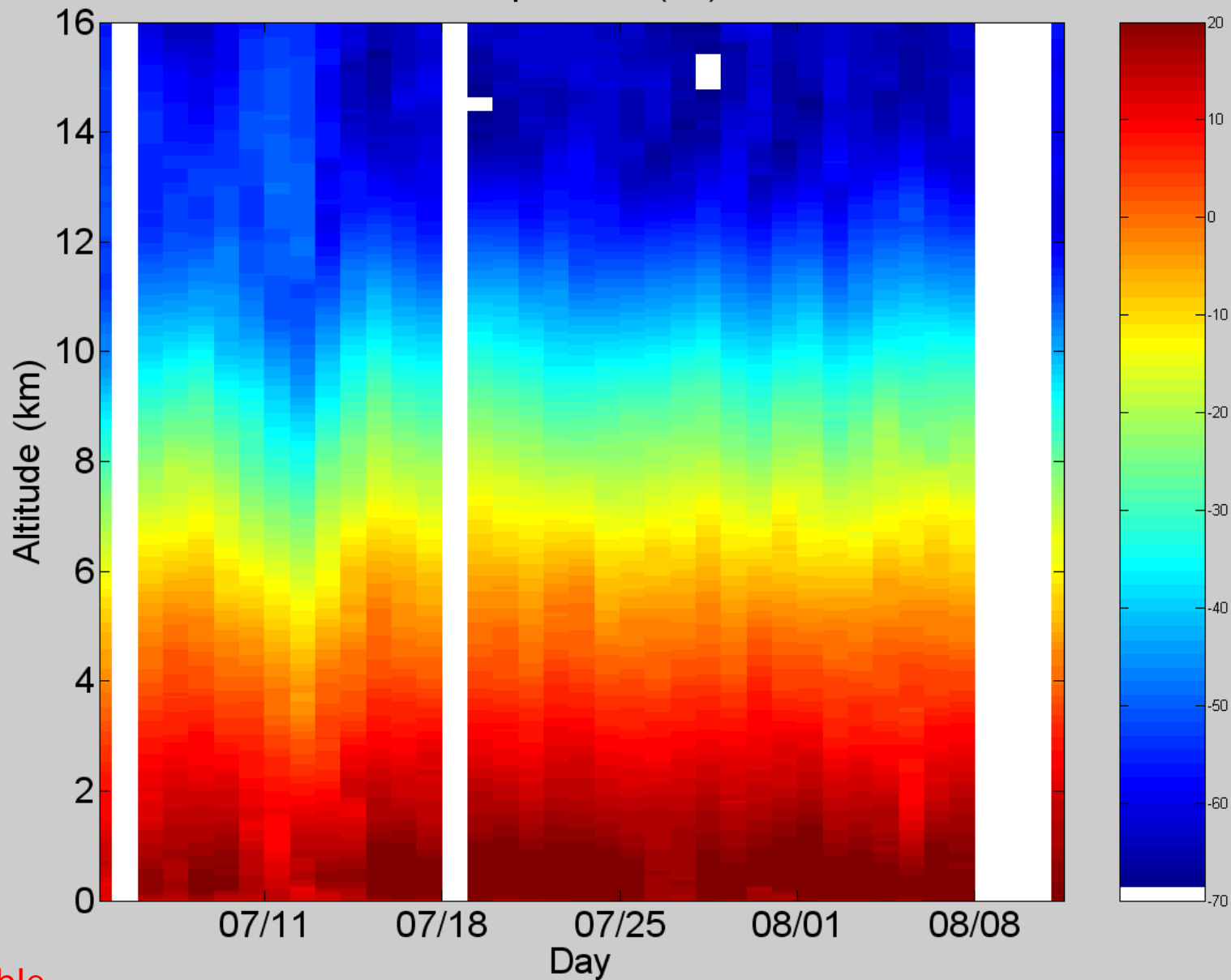
Sable

# Relative Humidity (%)



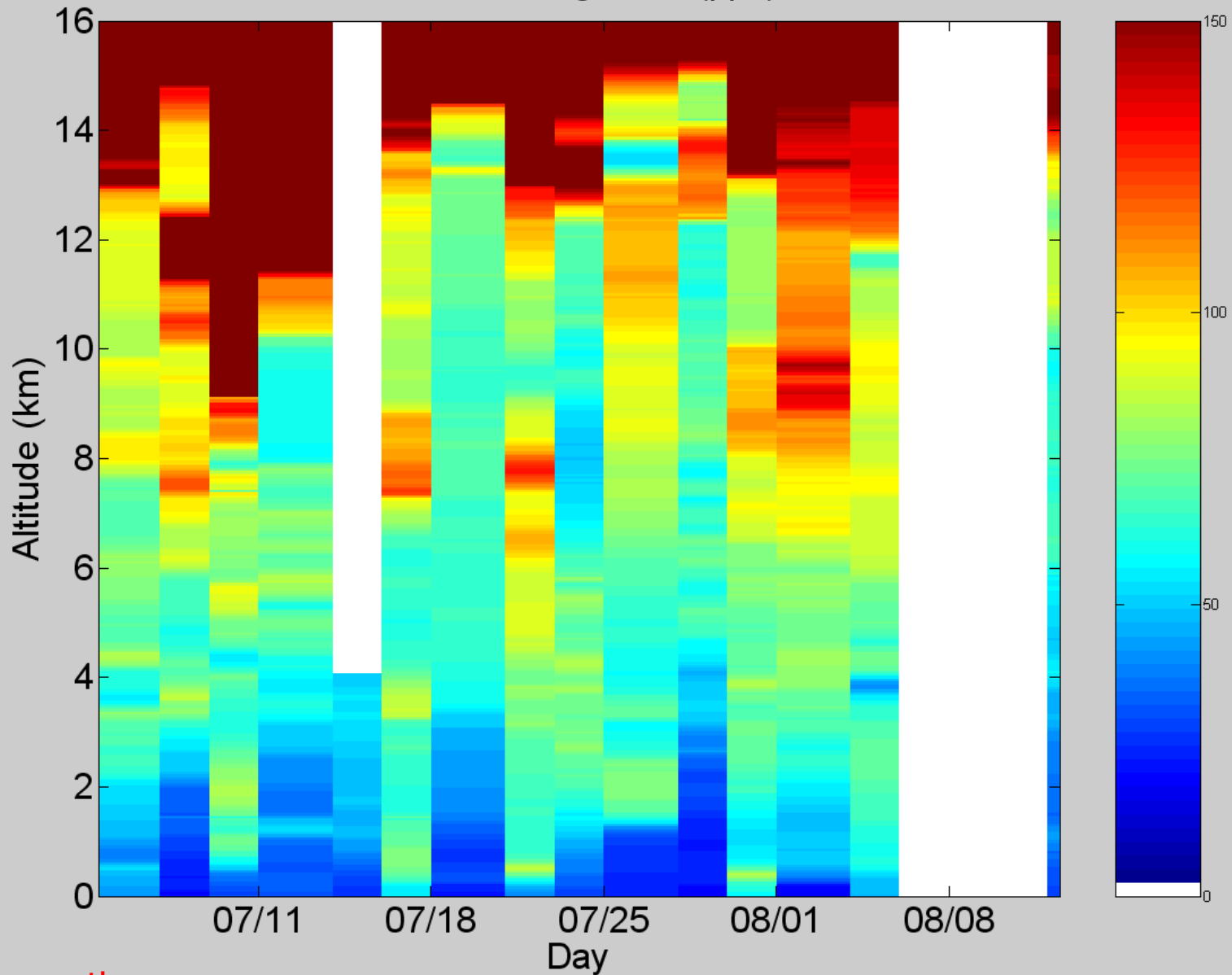
Sable

# Temperature (°C)



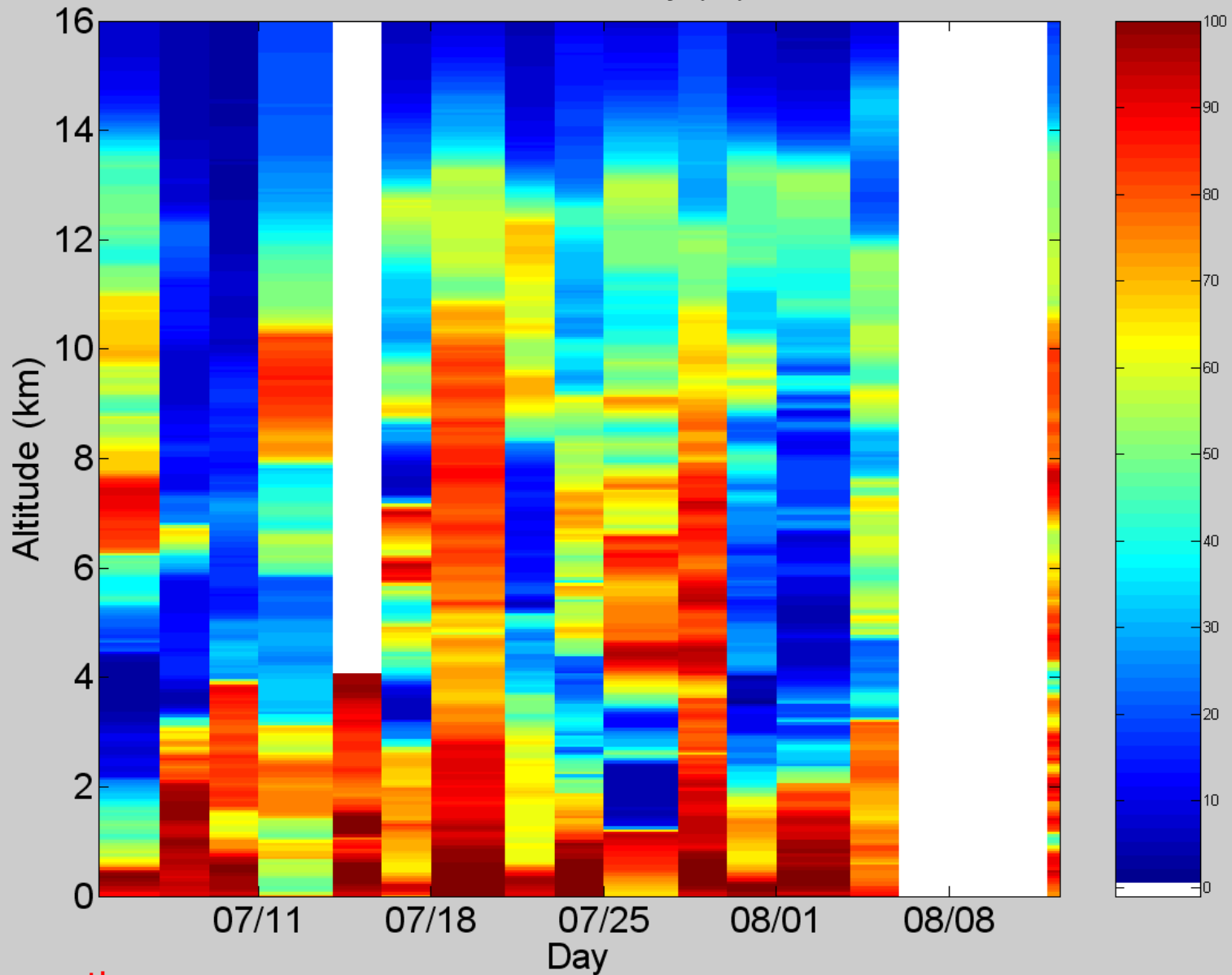
Sable

# Ozone Mixing Ratio (ppb)



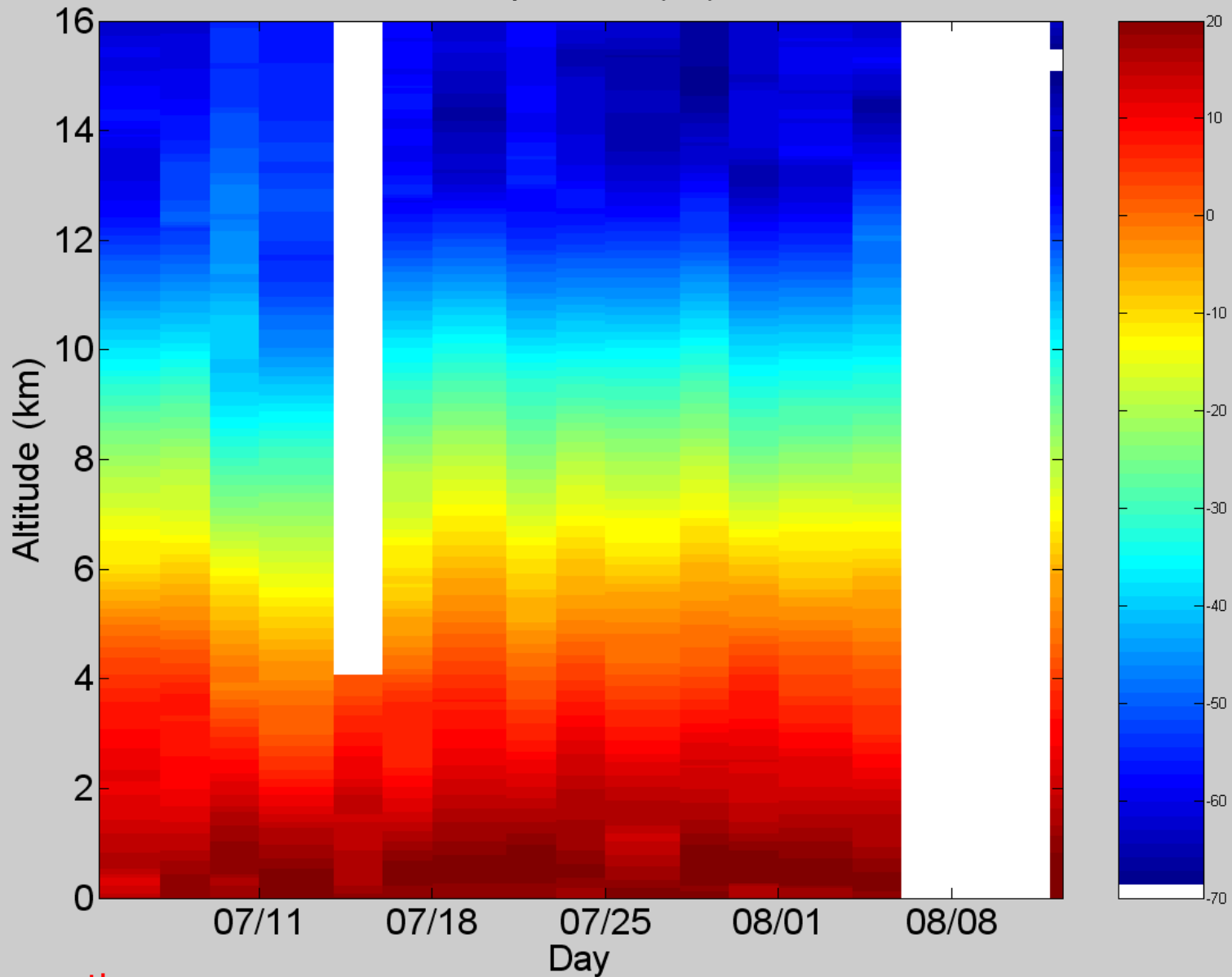
Yarmouth

# Relative Humidity (%)

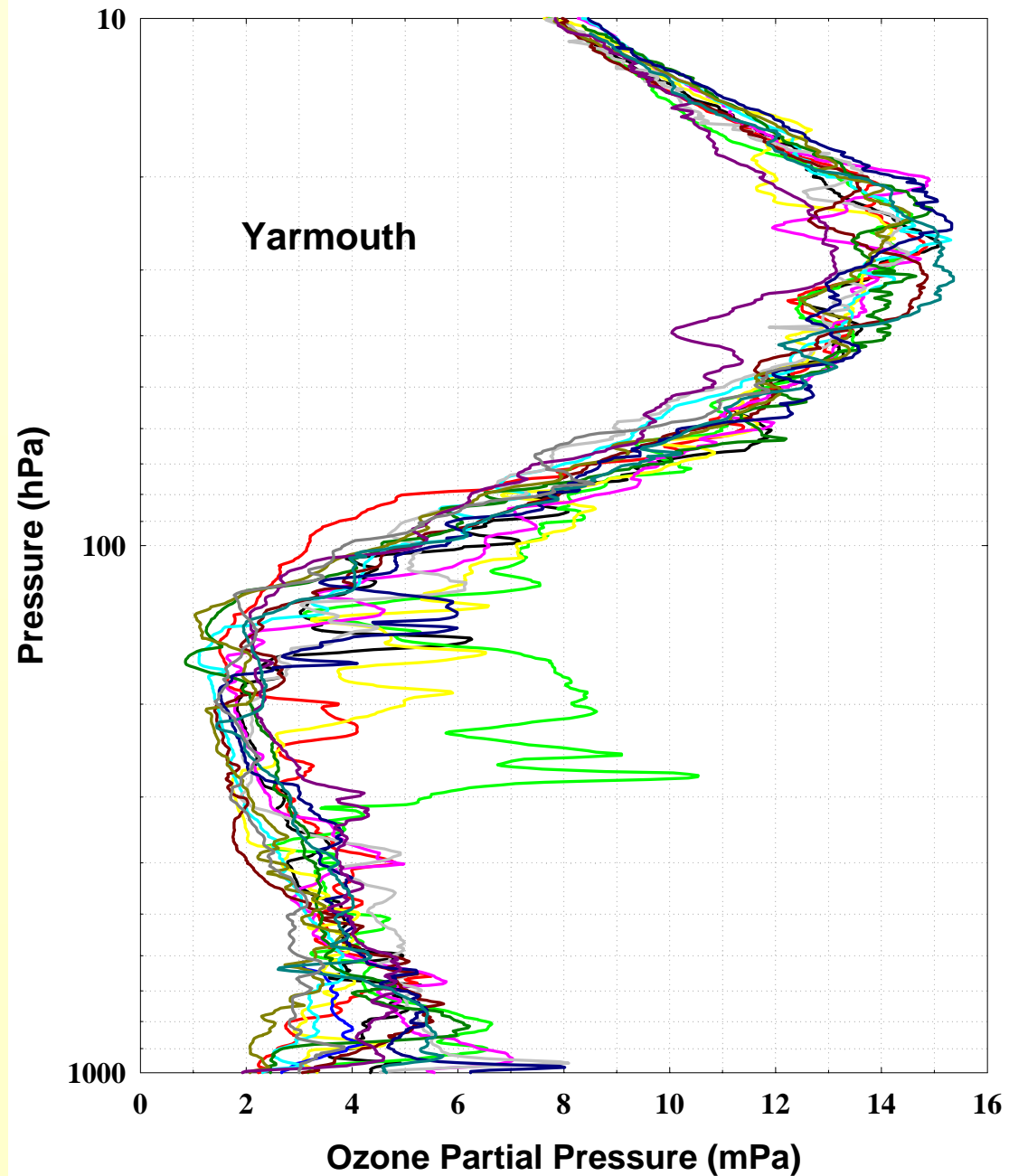


Yarmouth

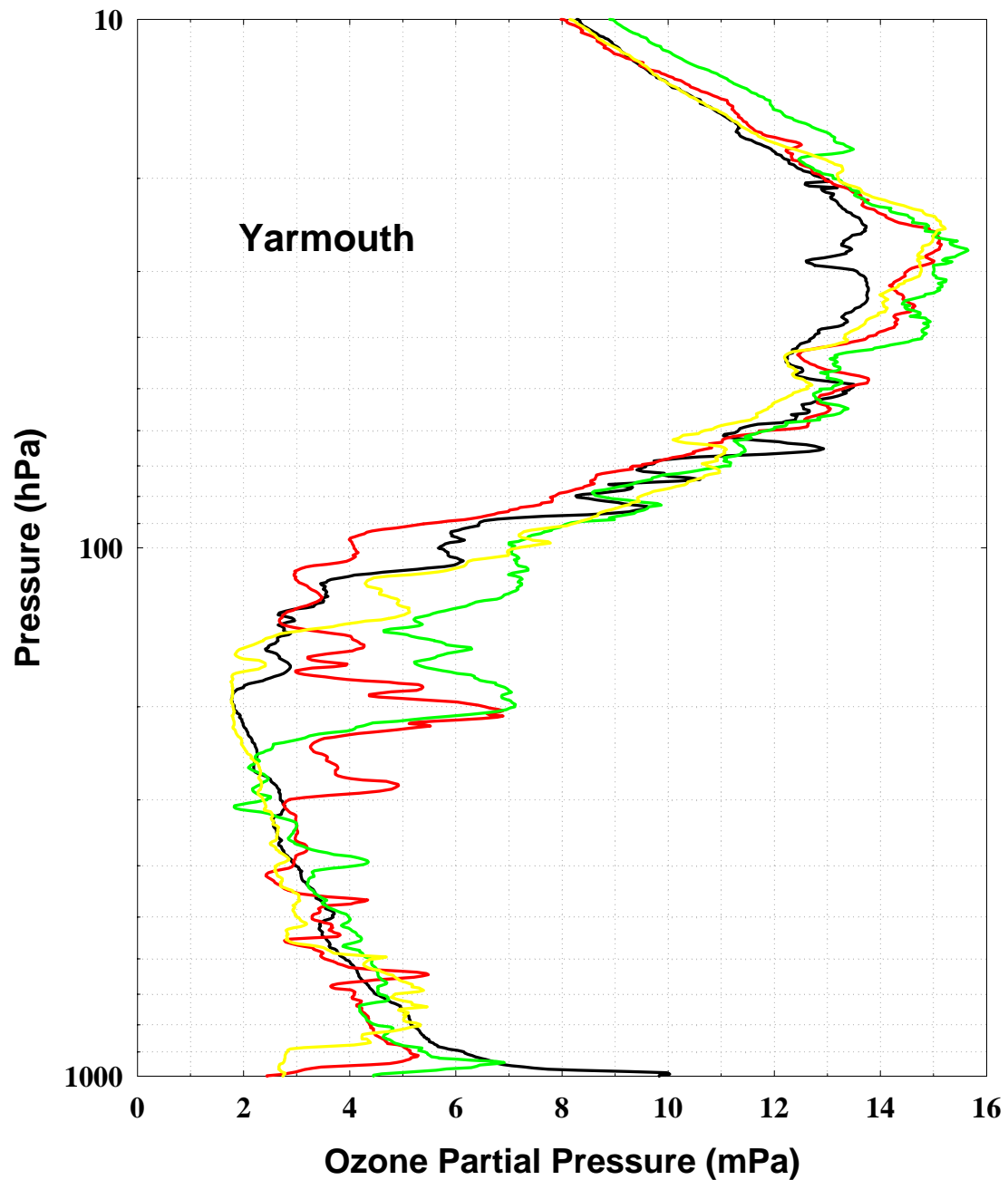
# Temperature (°C)

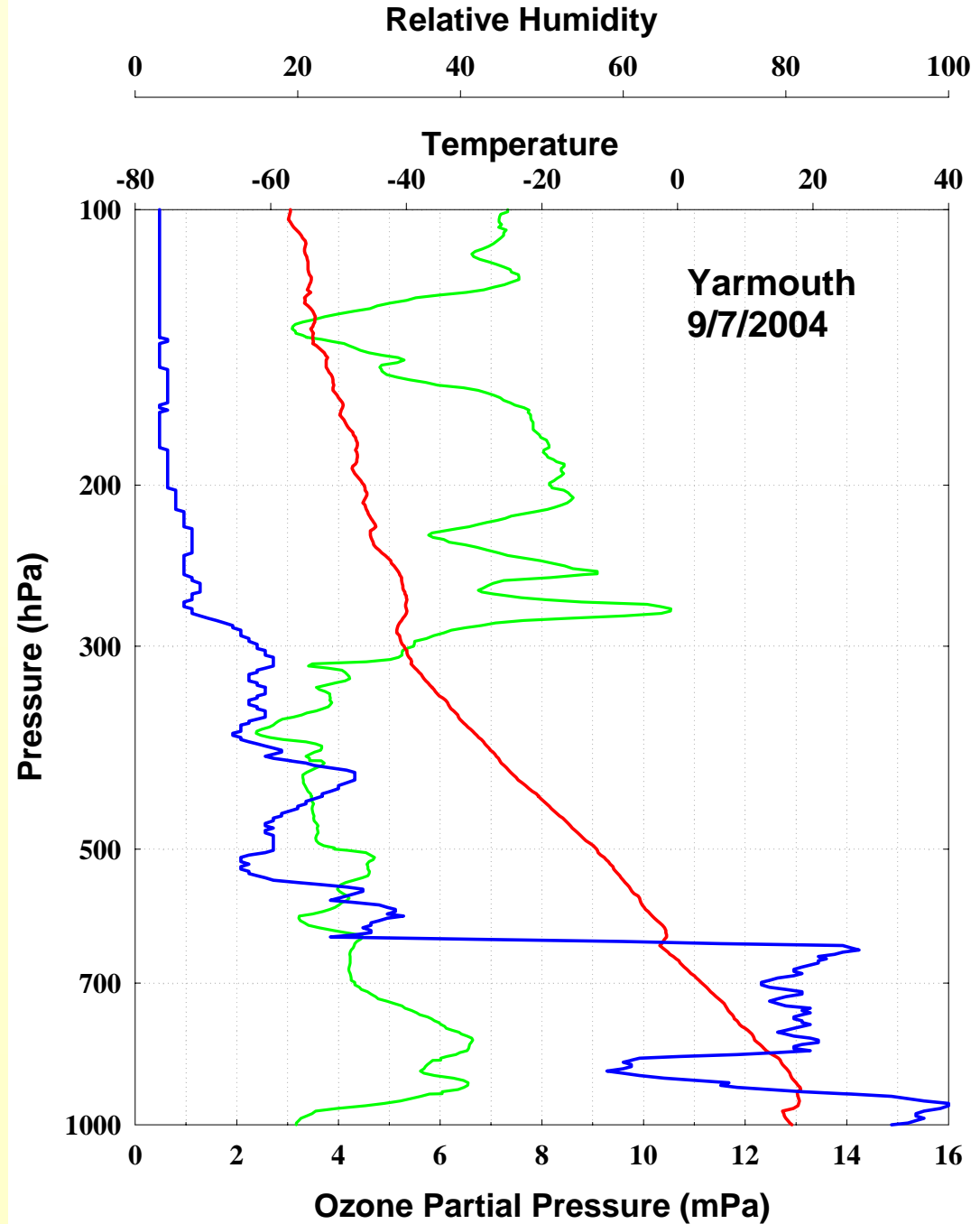


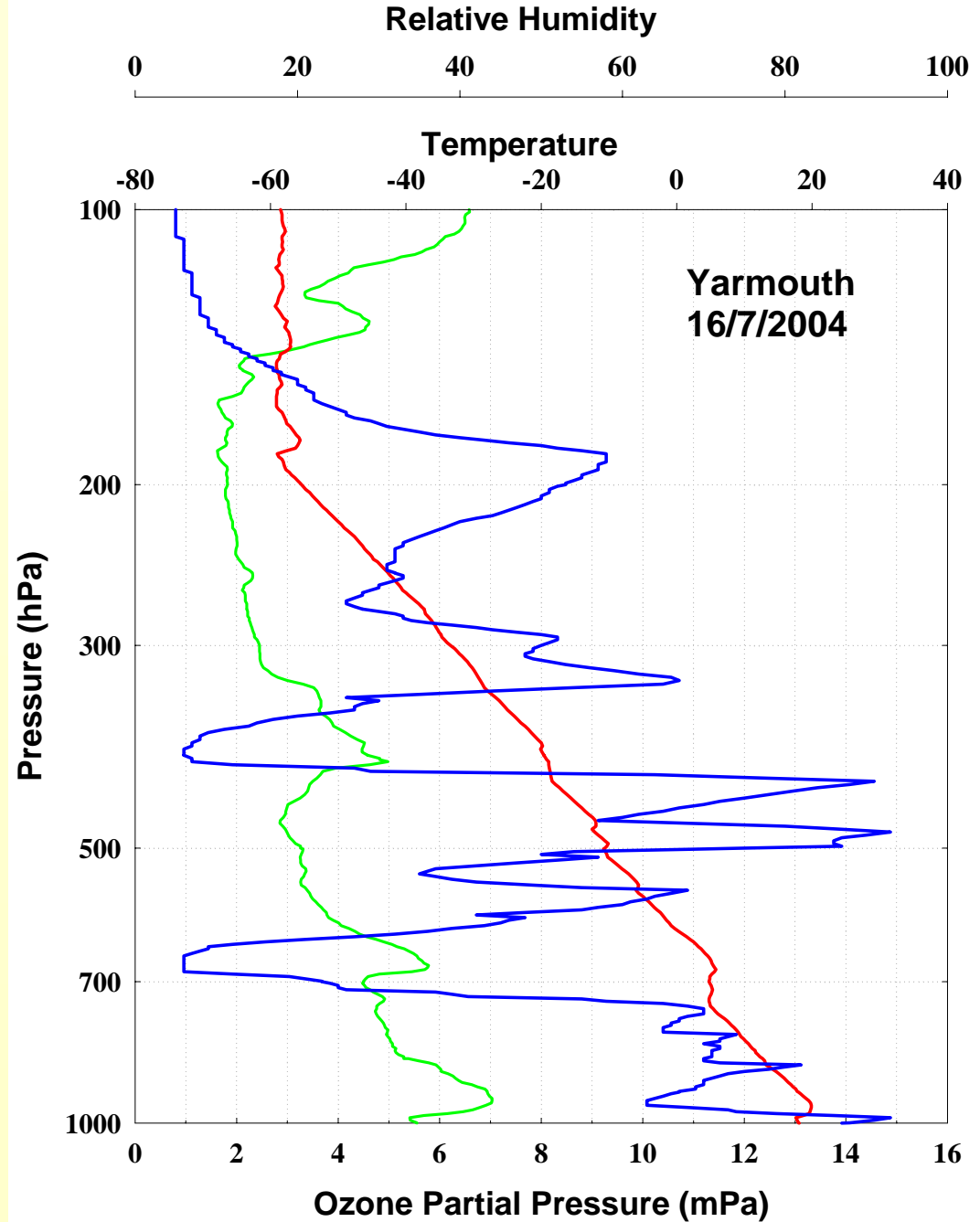
Yarmouth

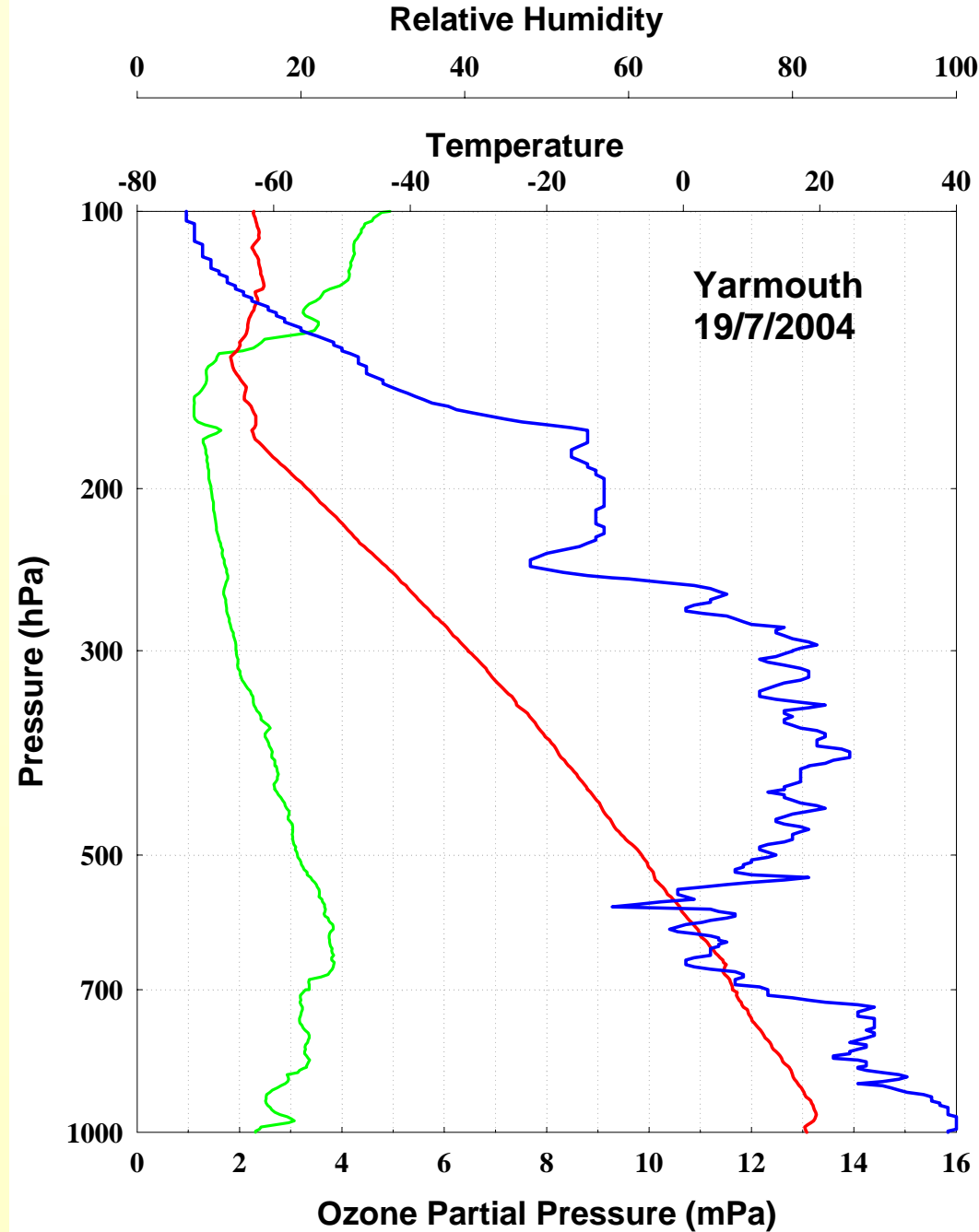


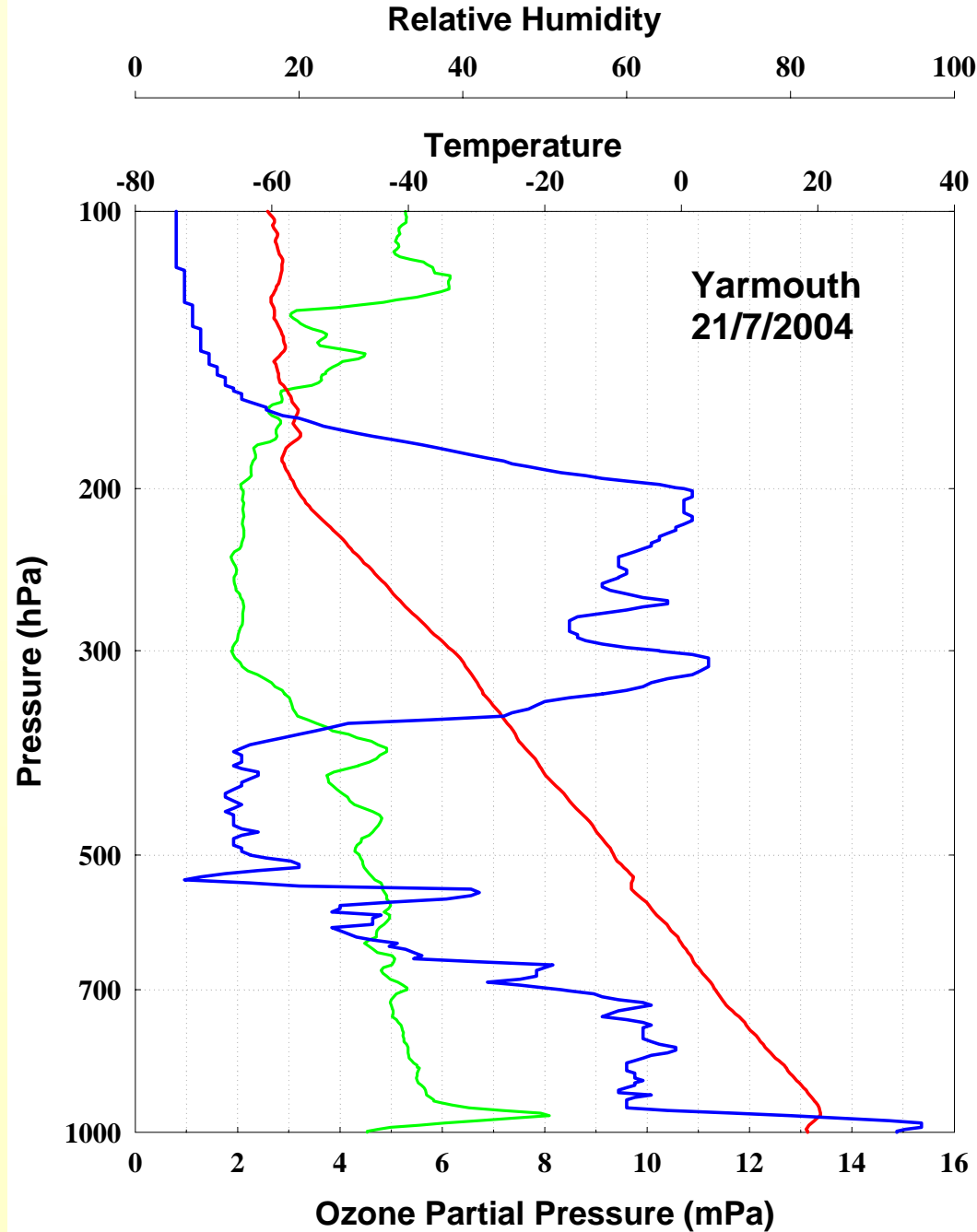


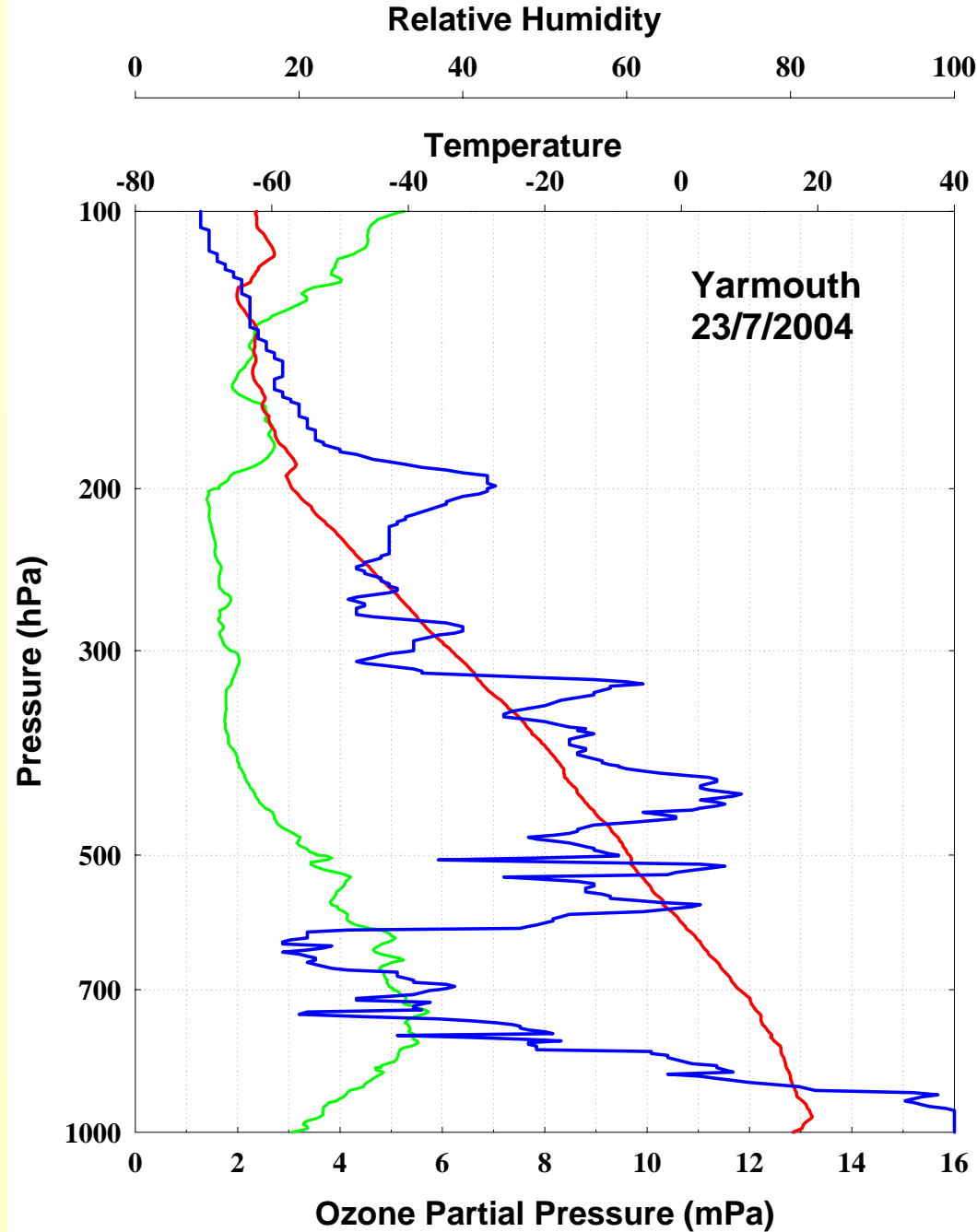


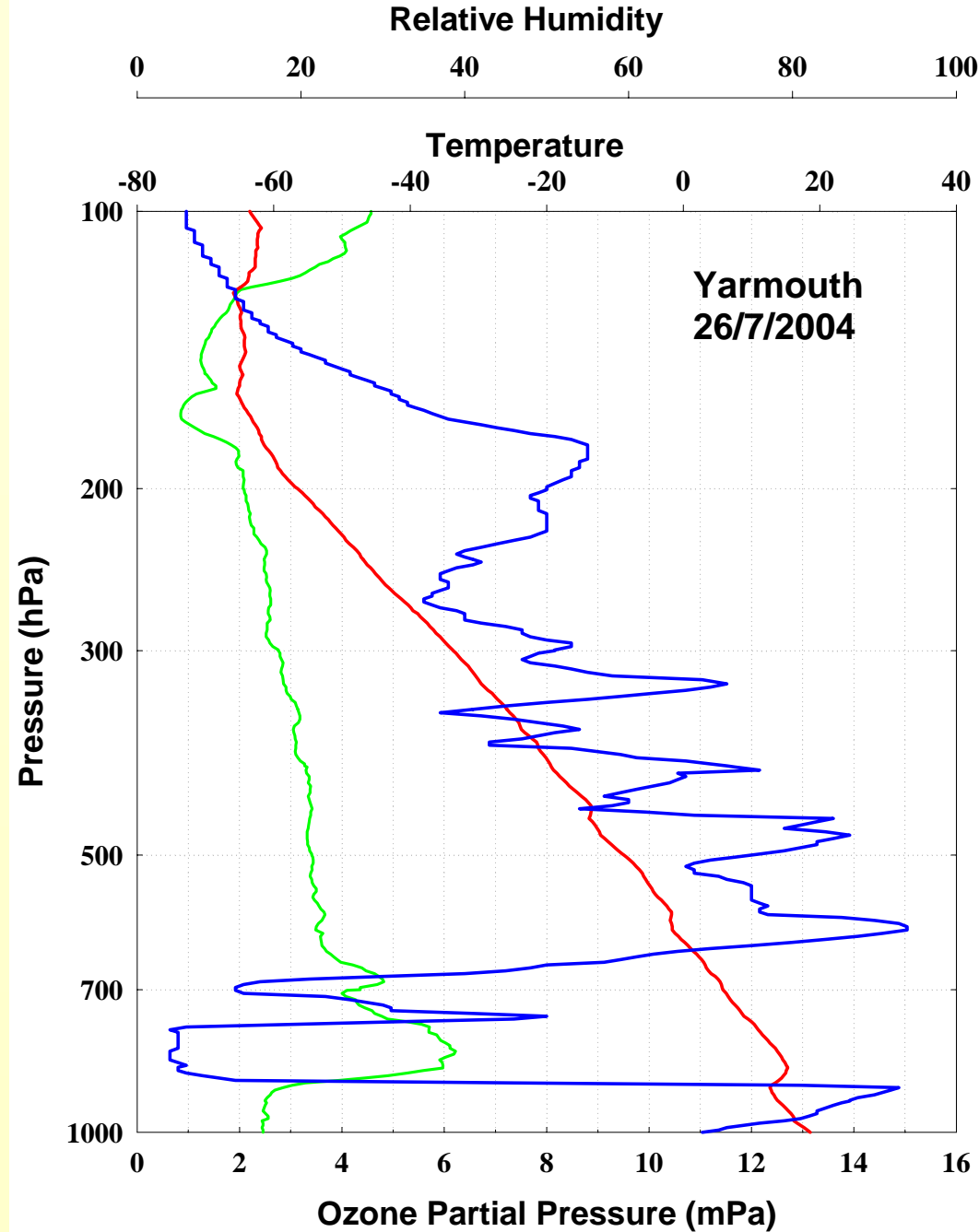


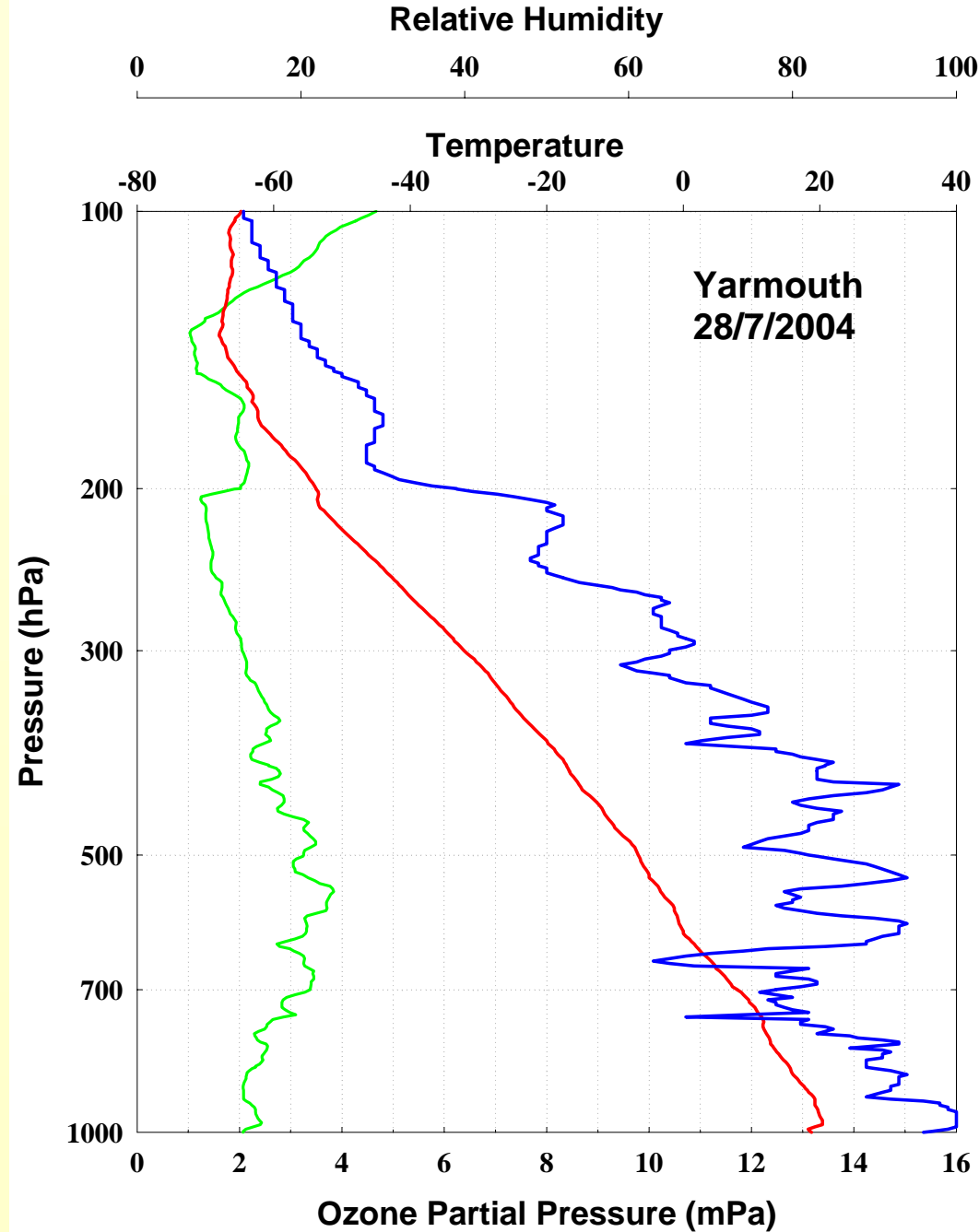




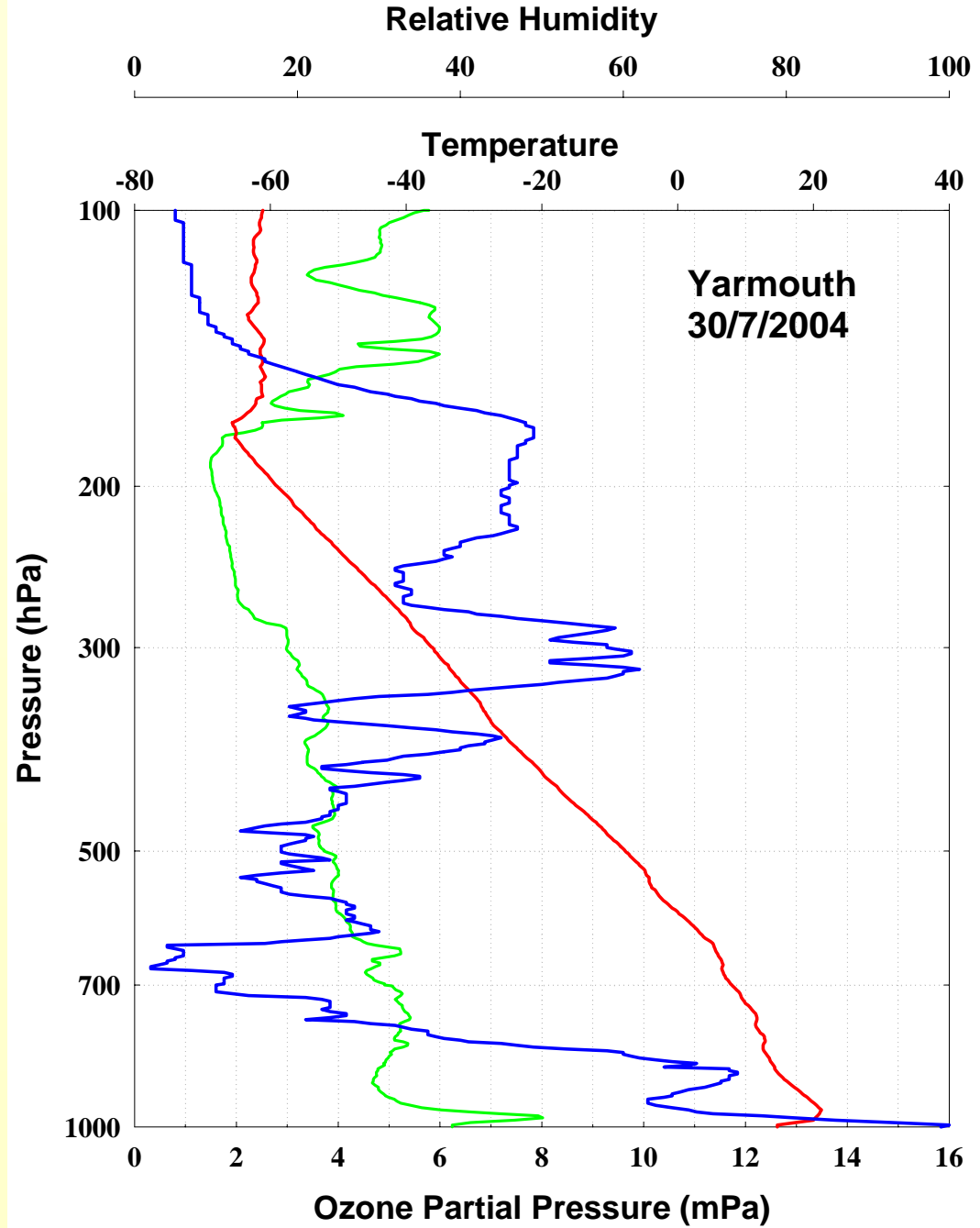


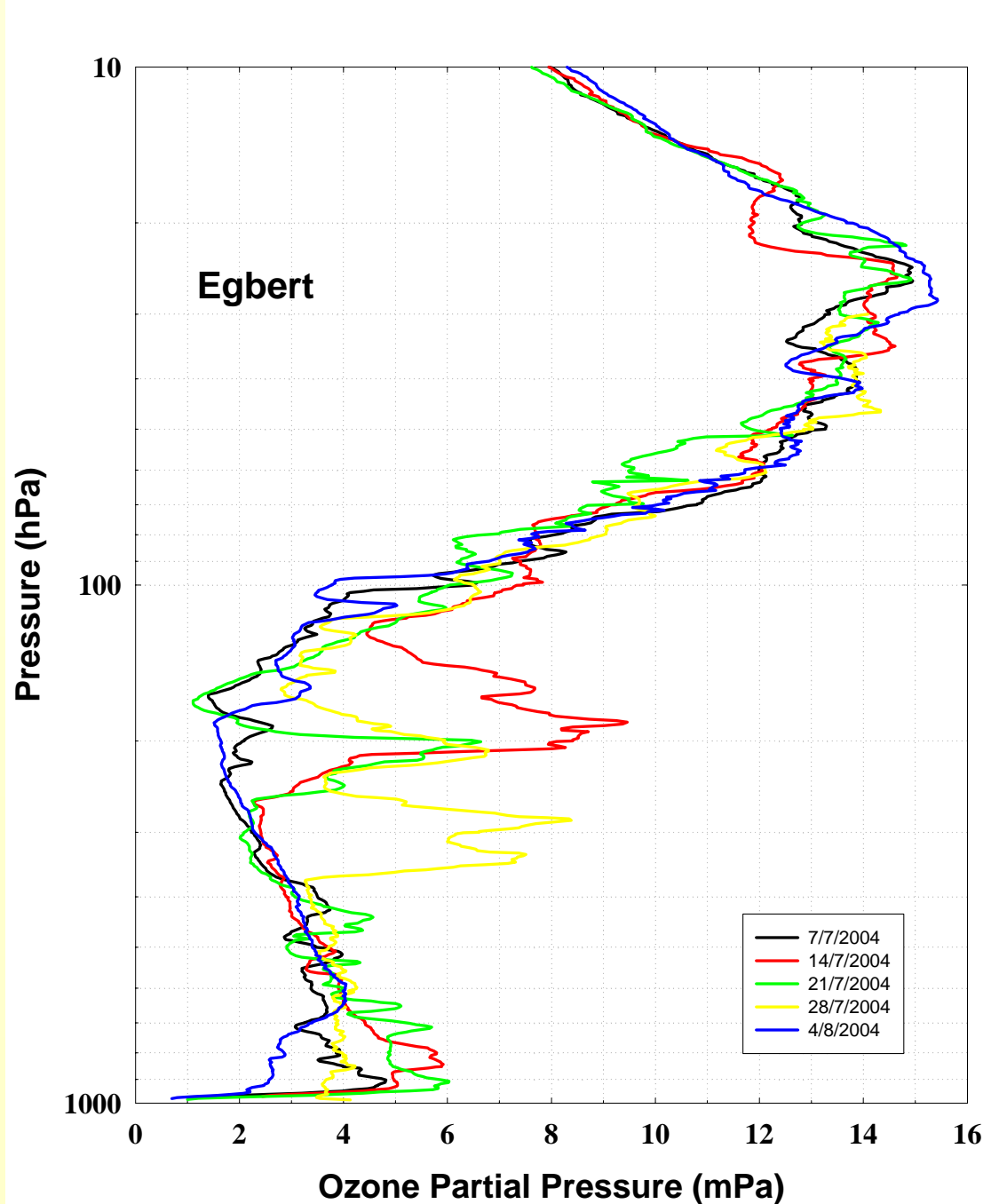


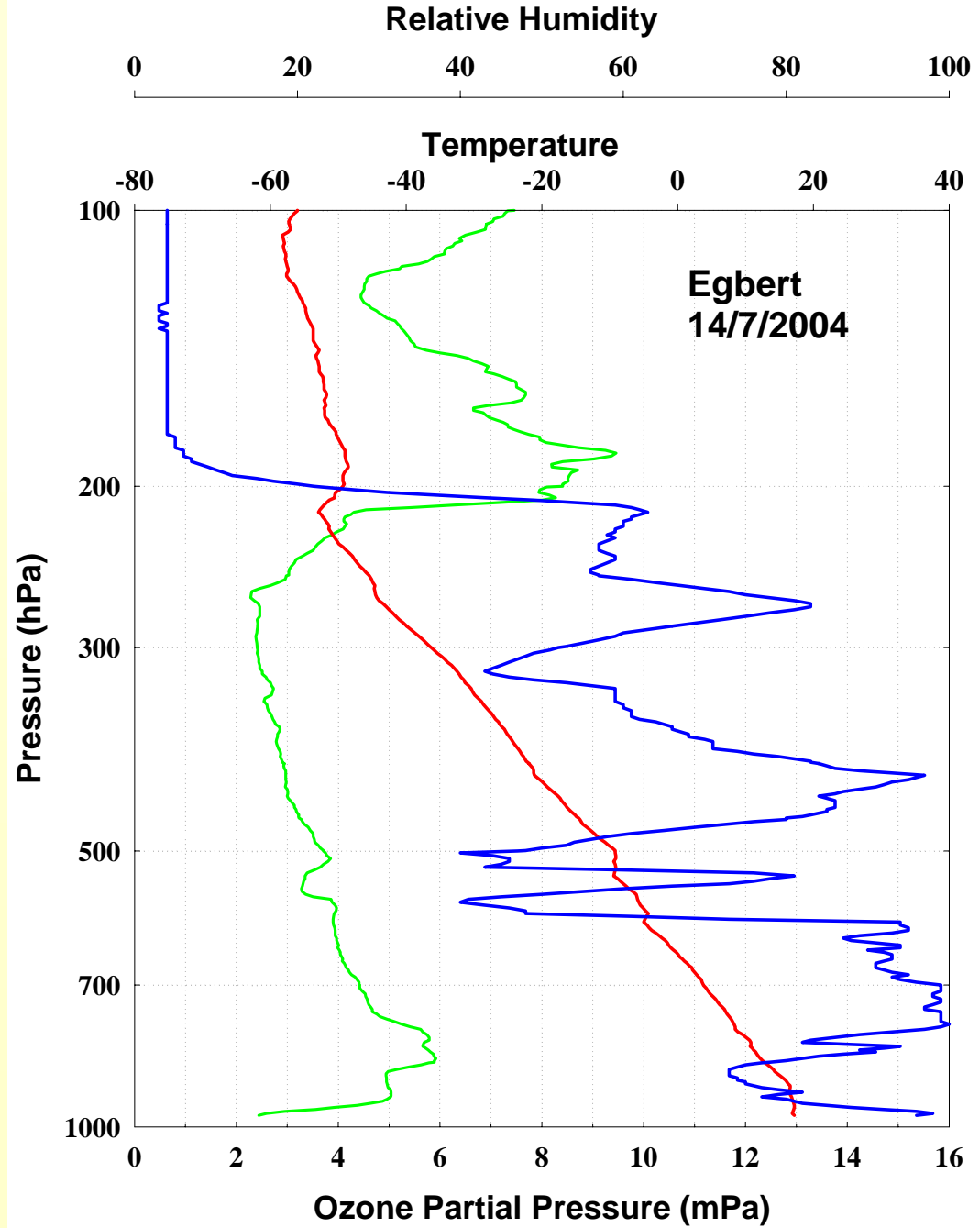


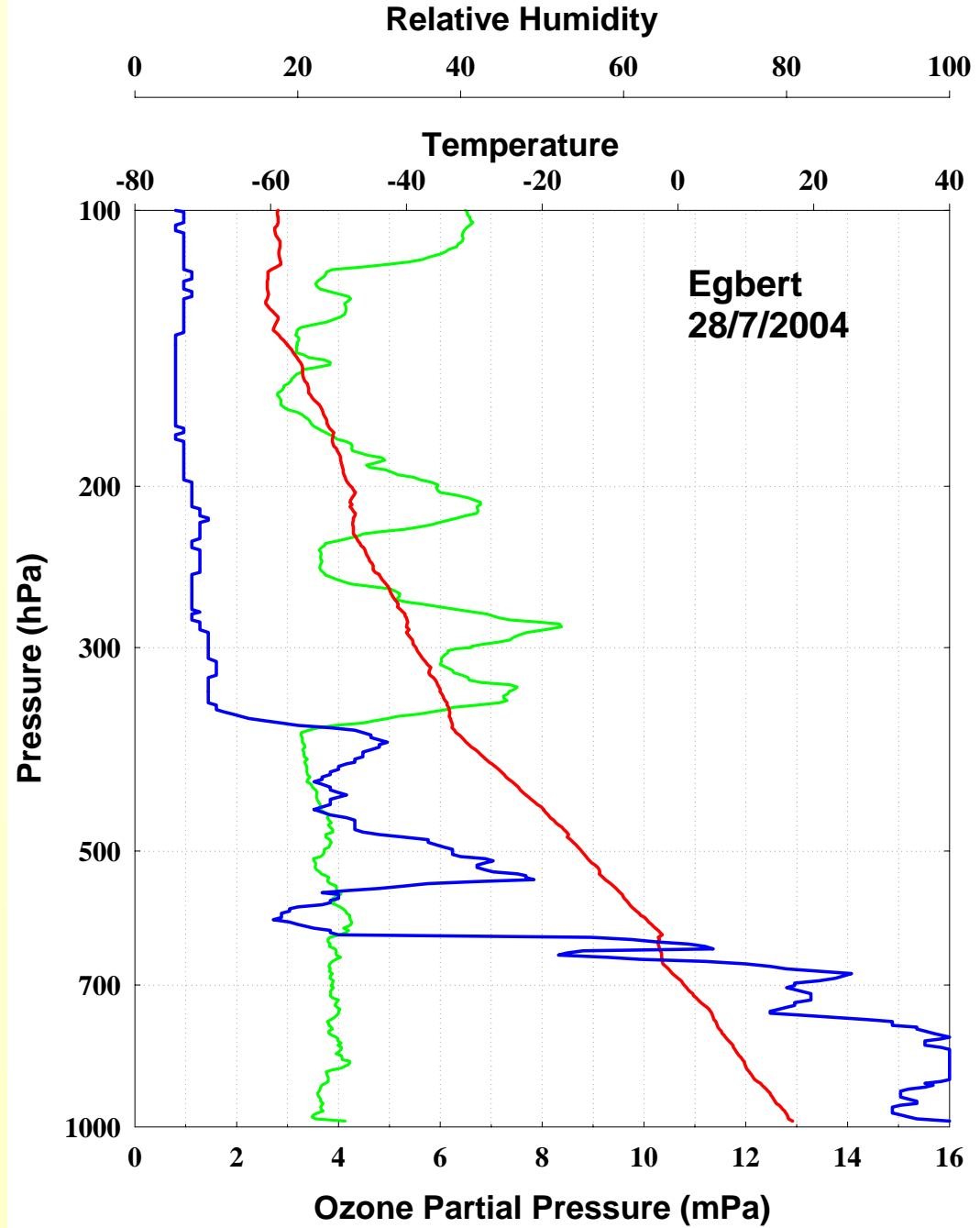




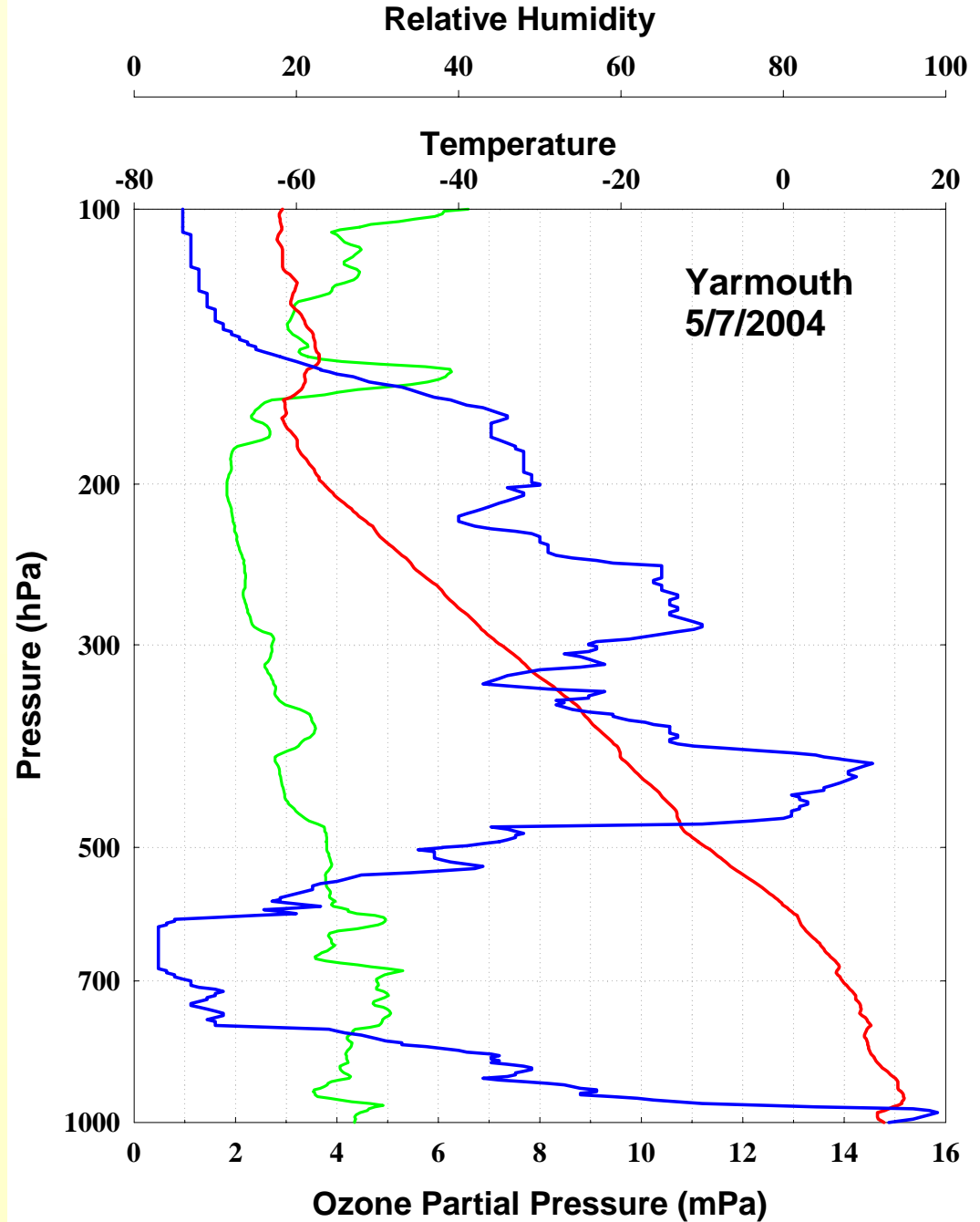


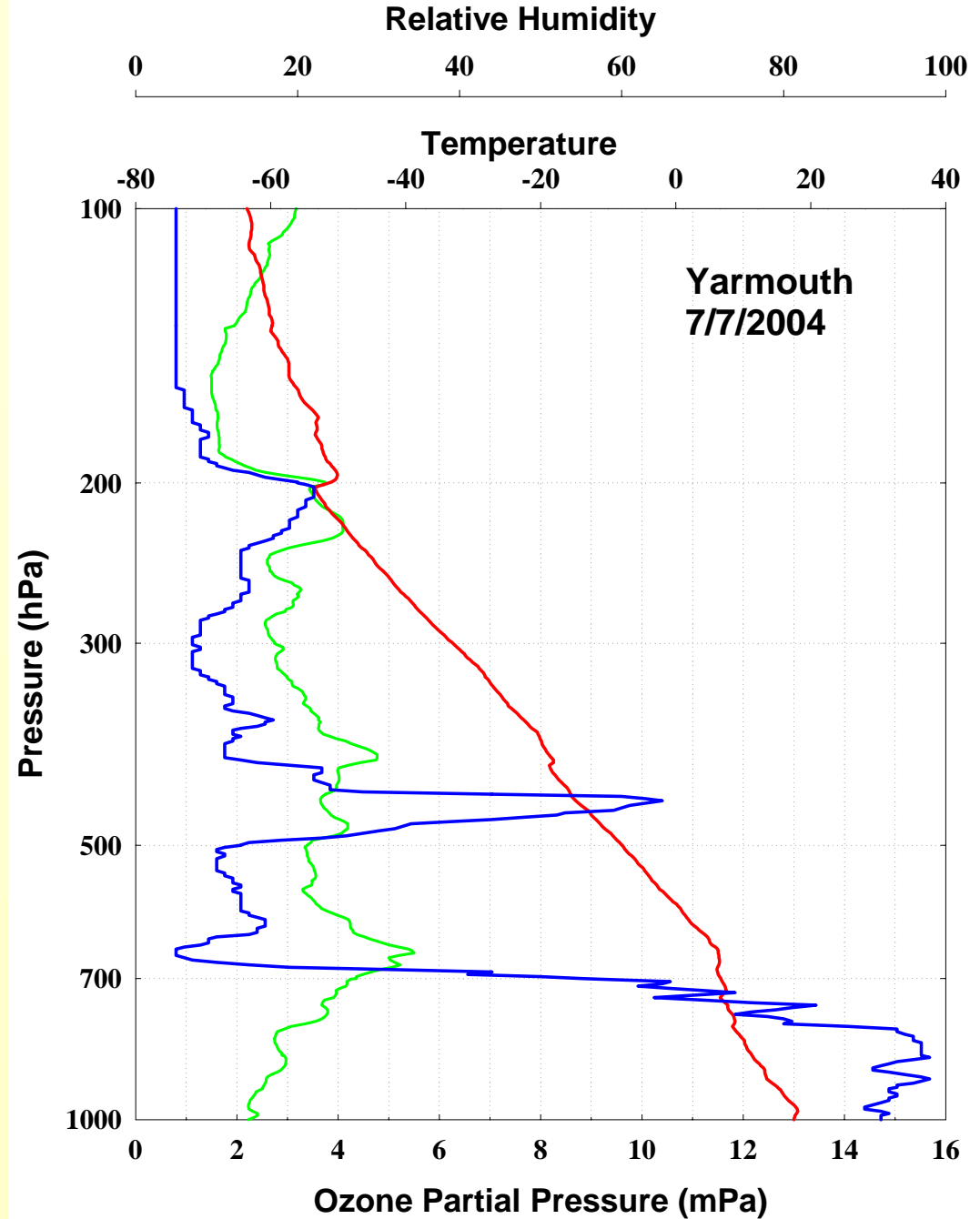


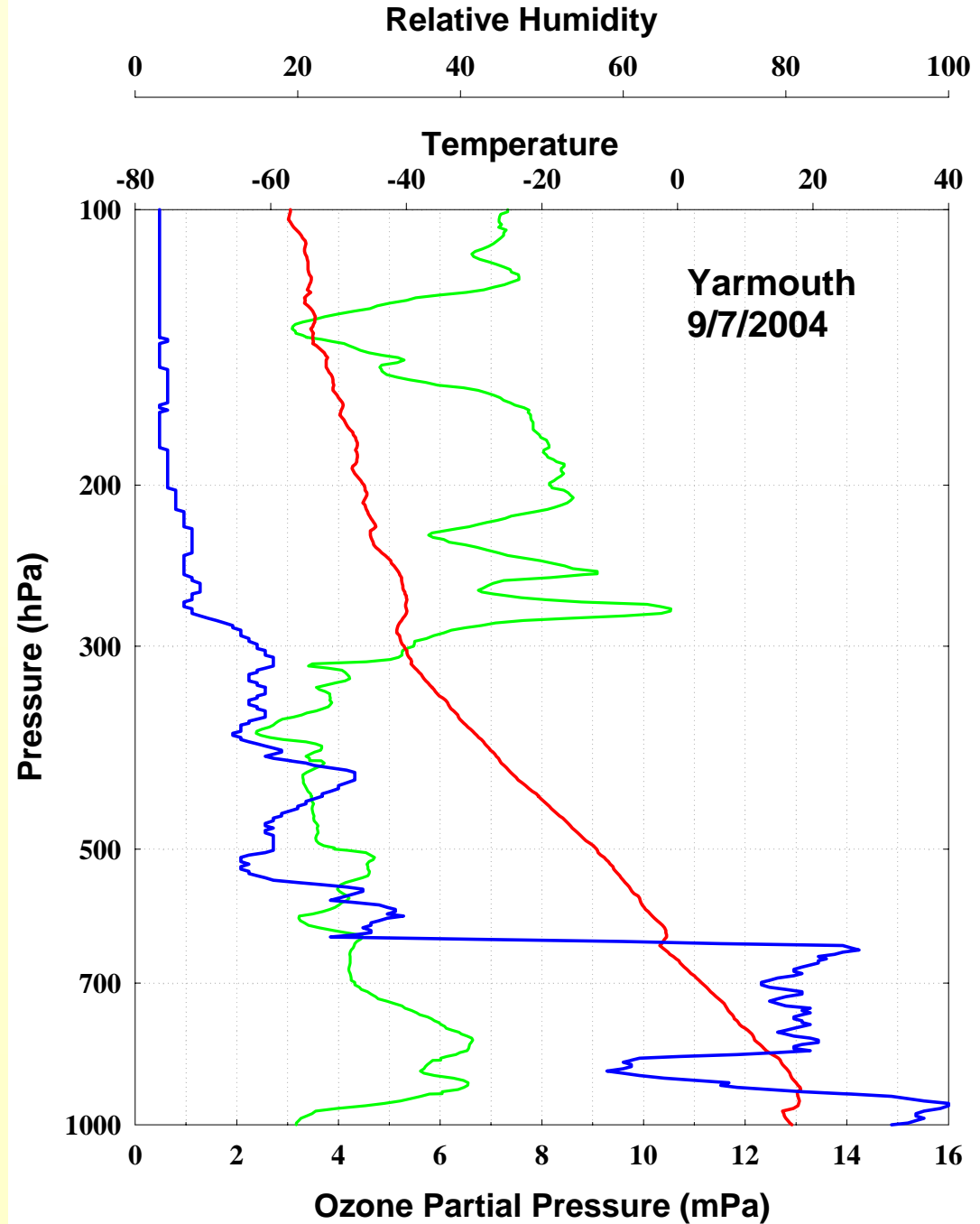




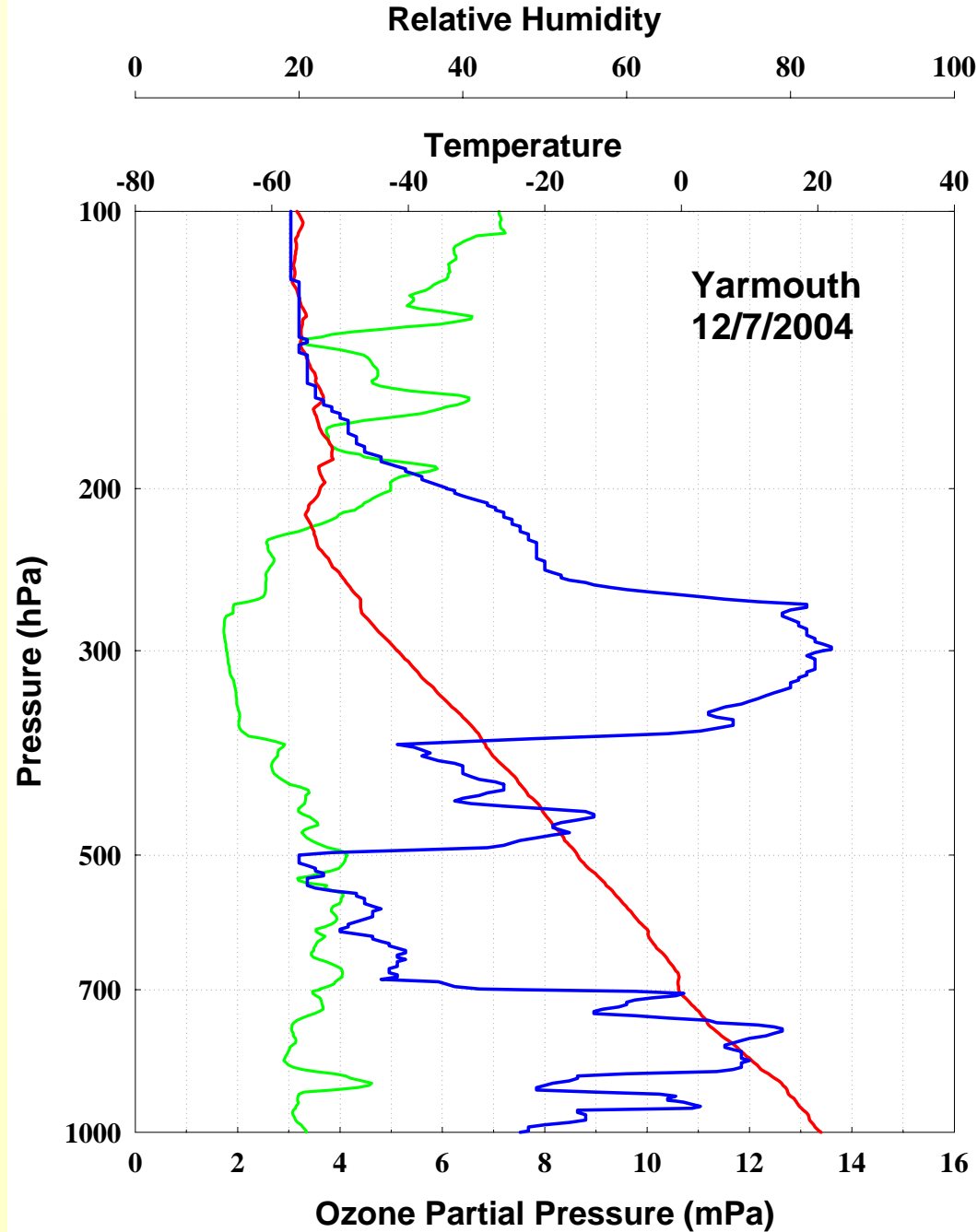
- Appendix – All the Yarmouth & Egbert plots

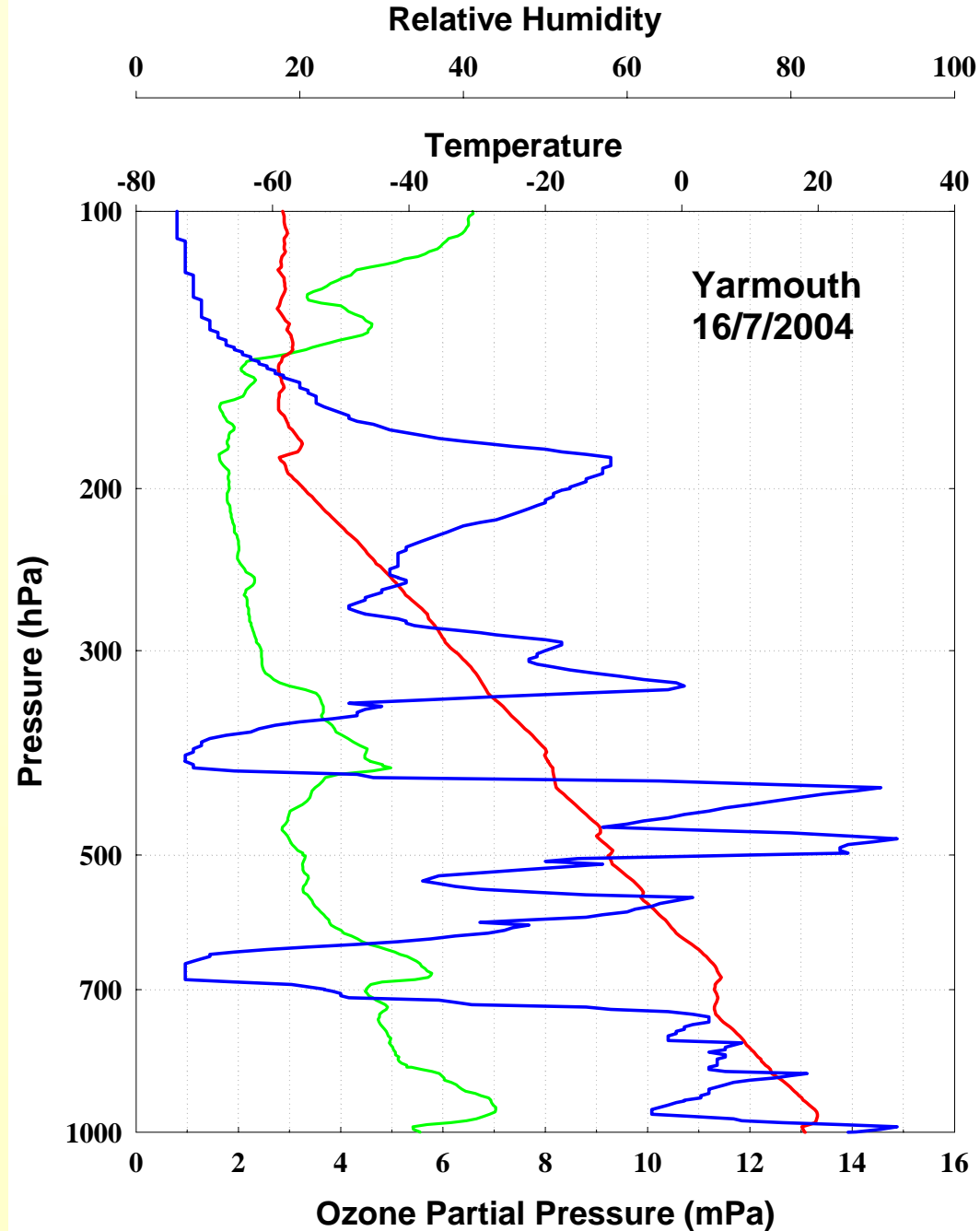


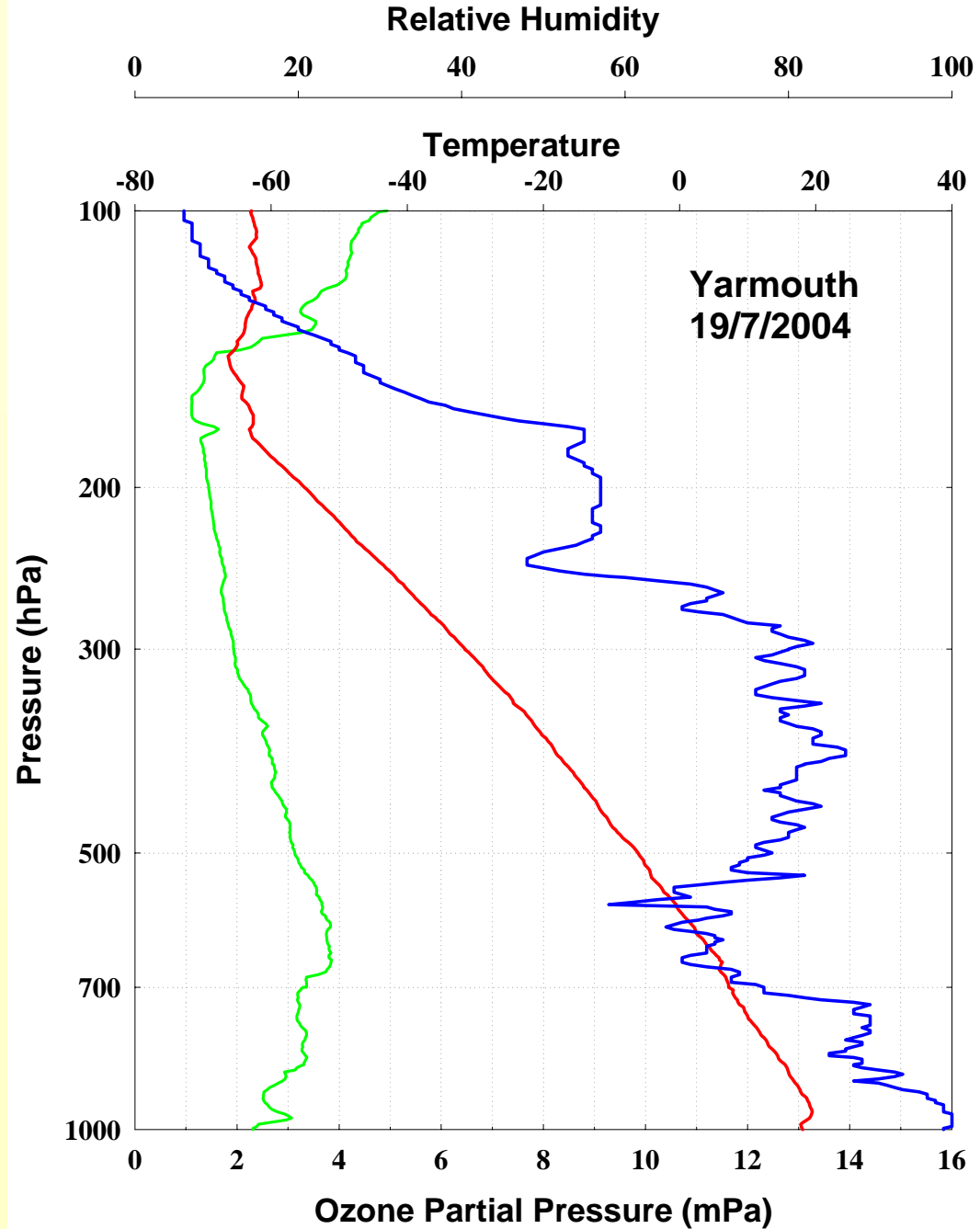


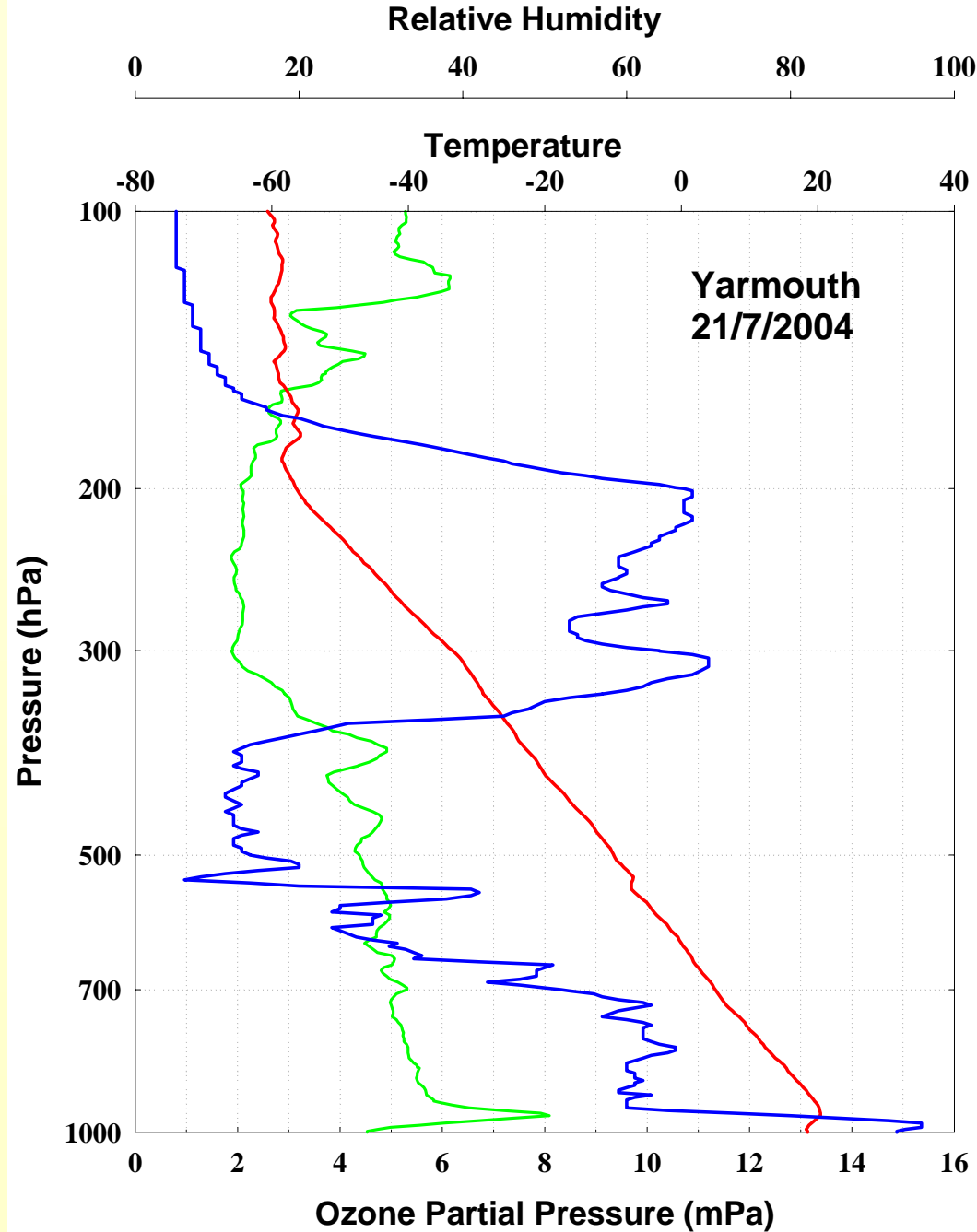


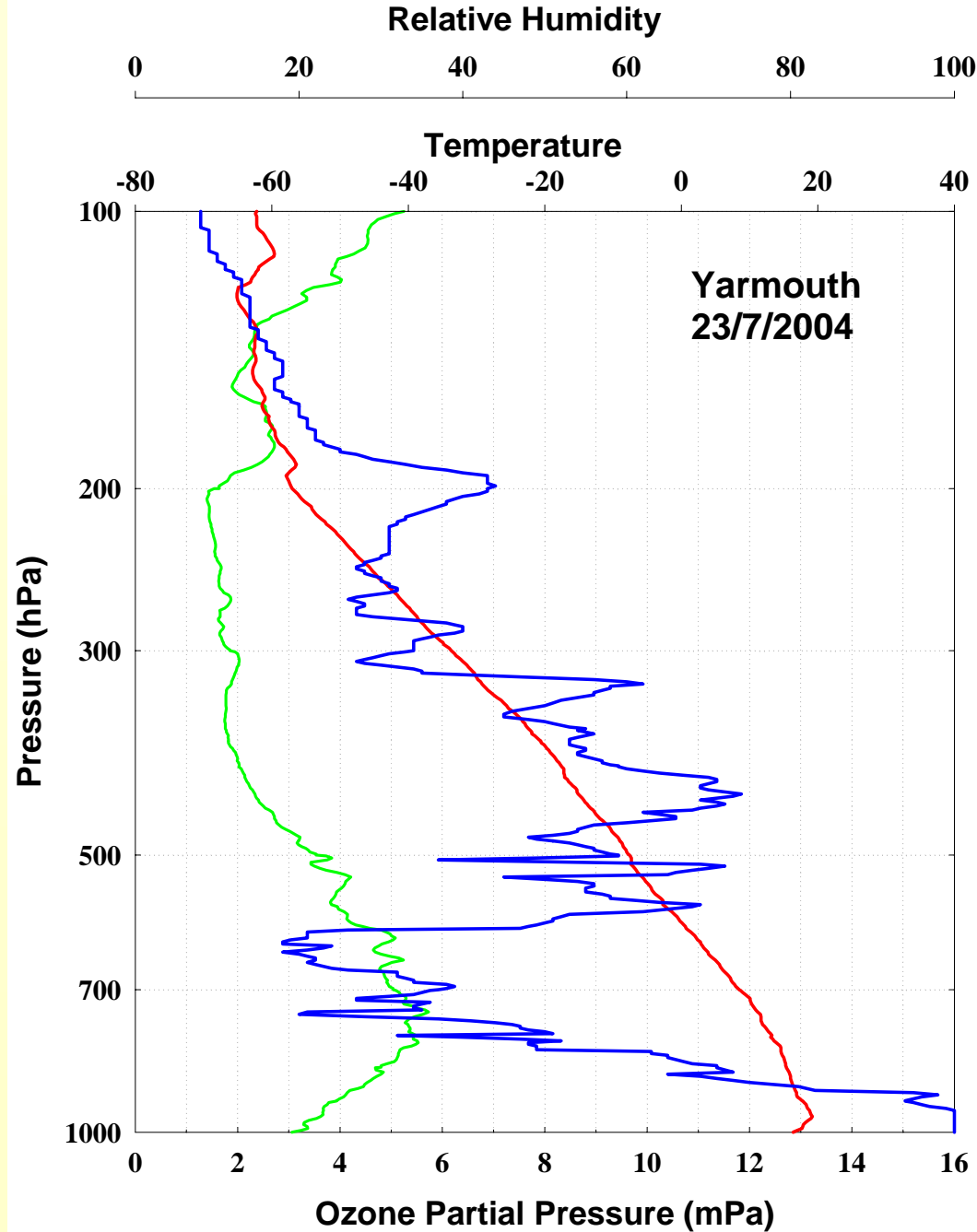


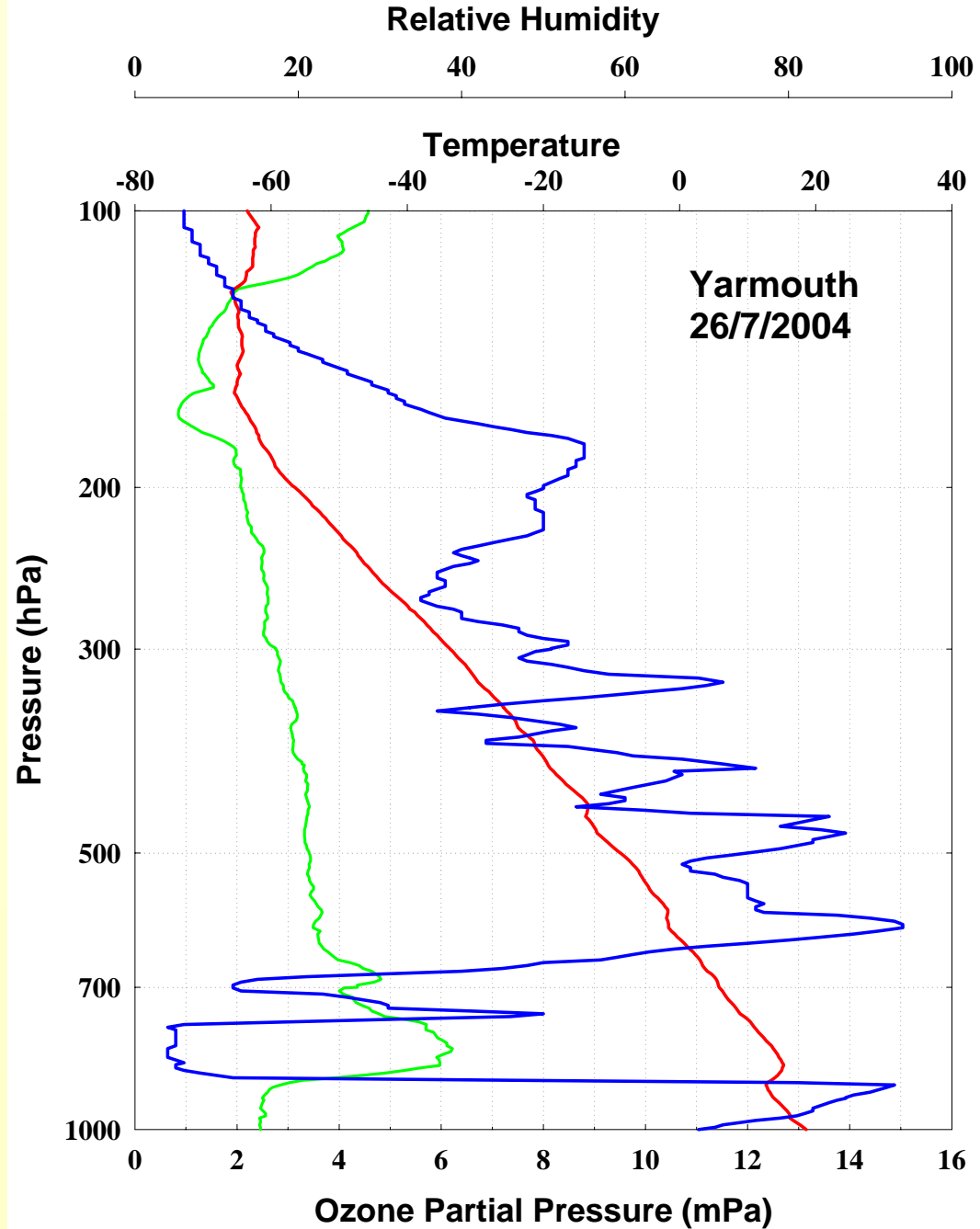


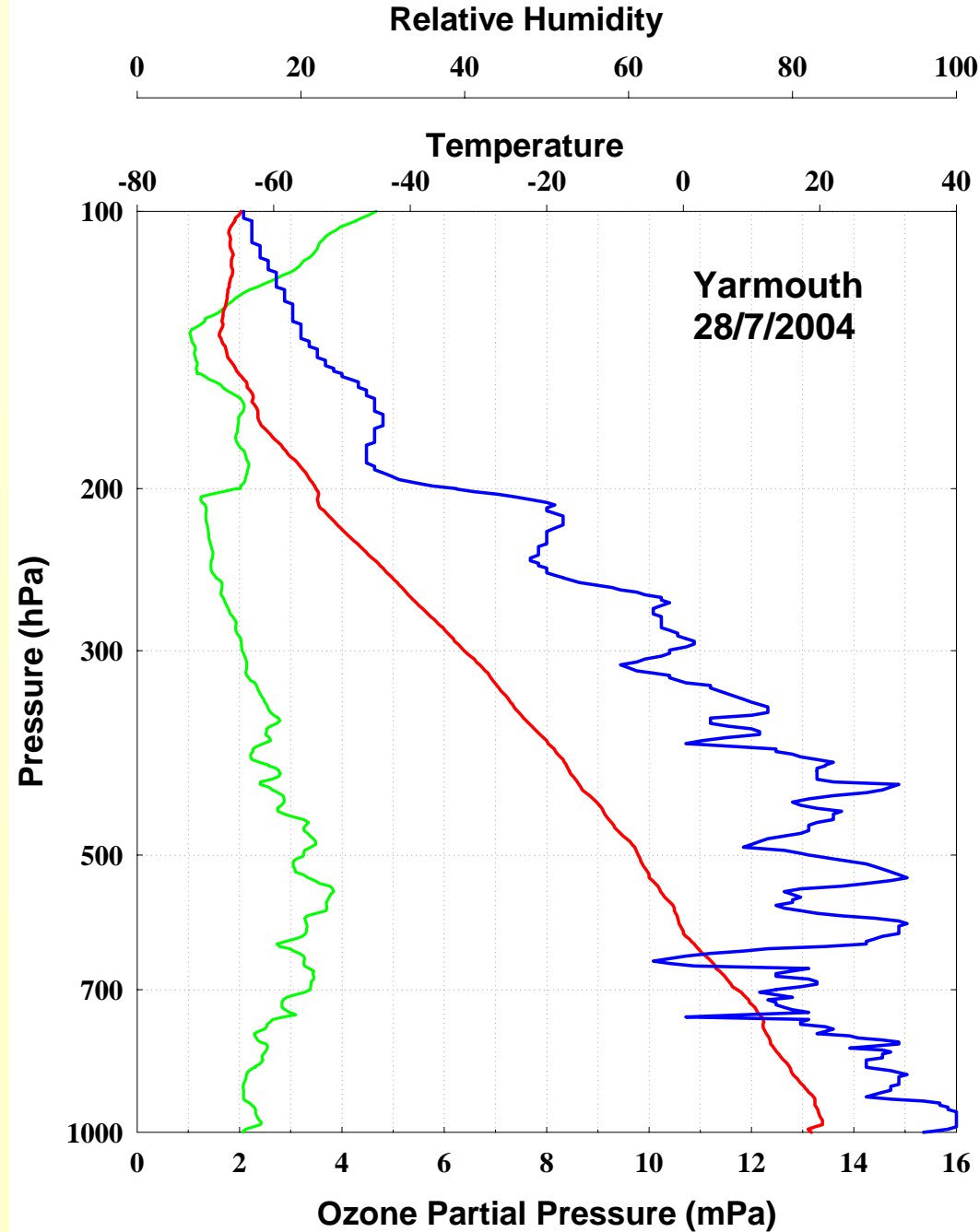


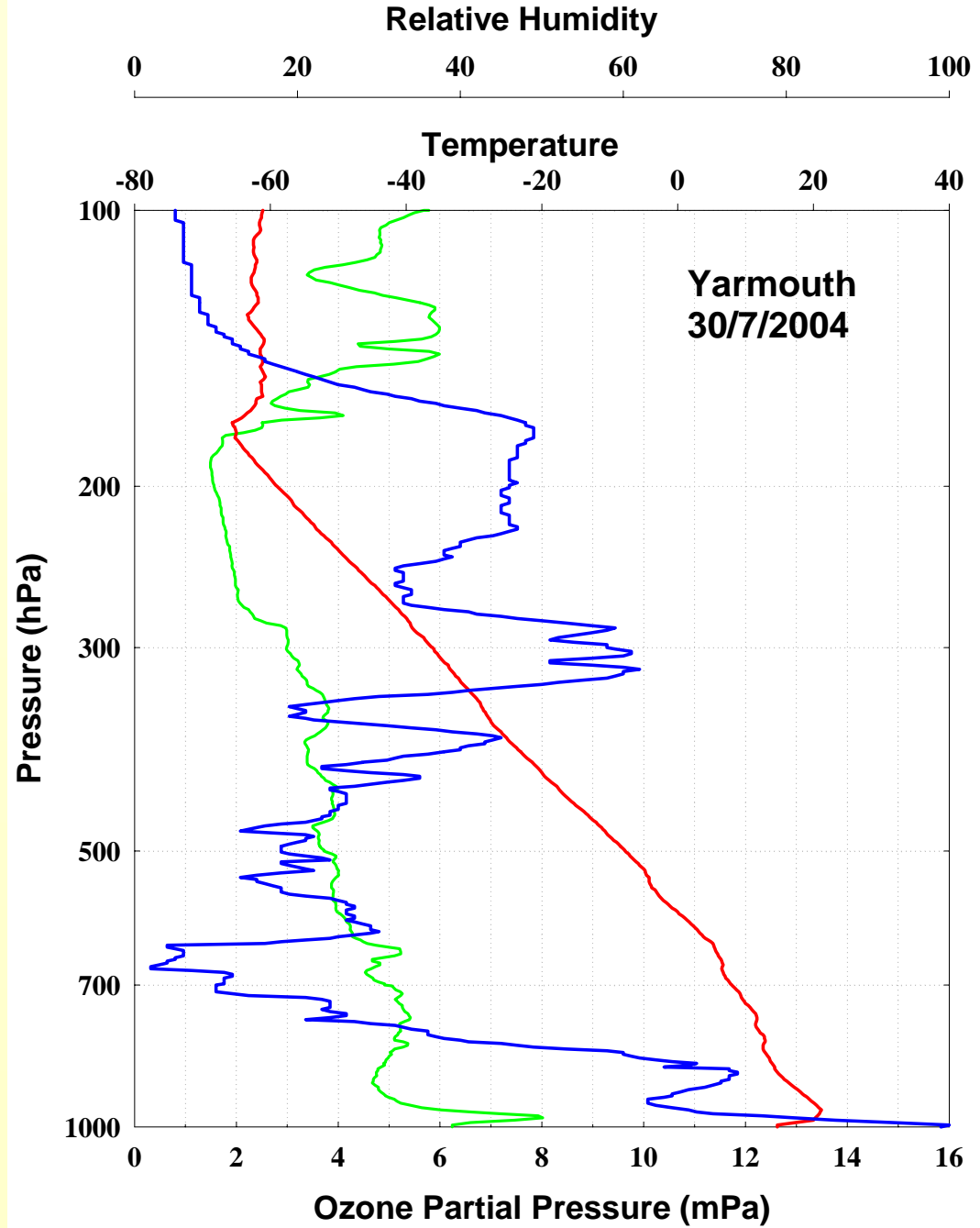




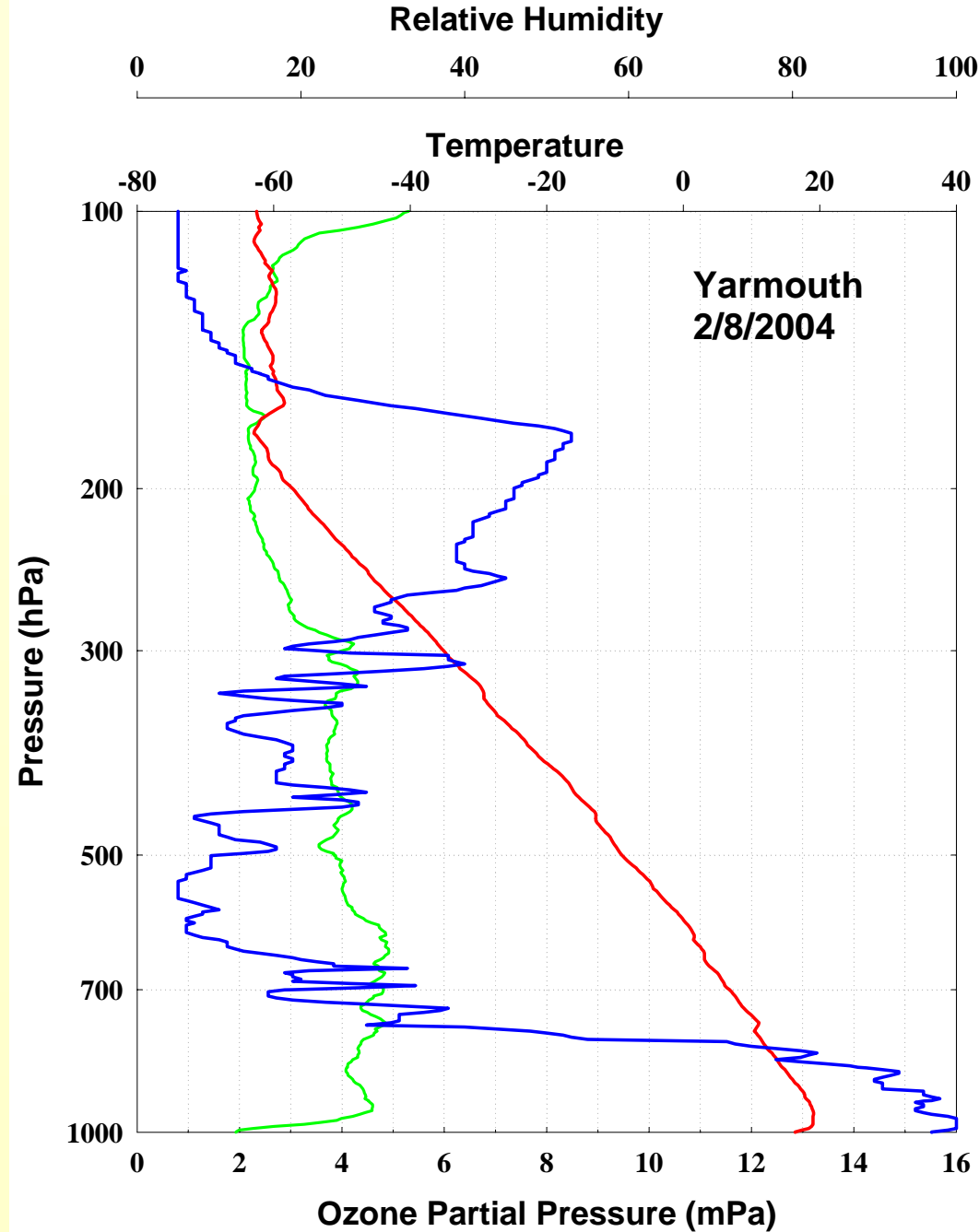


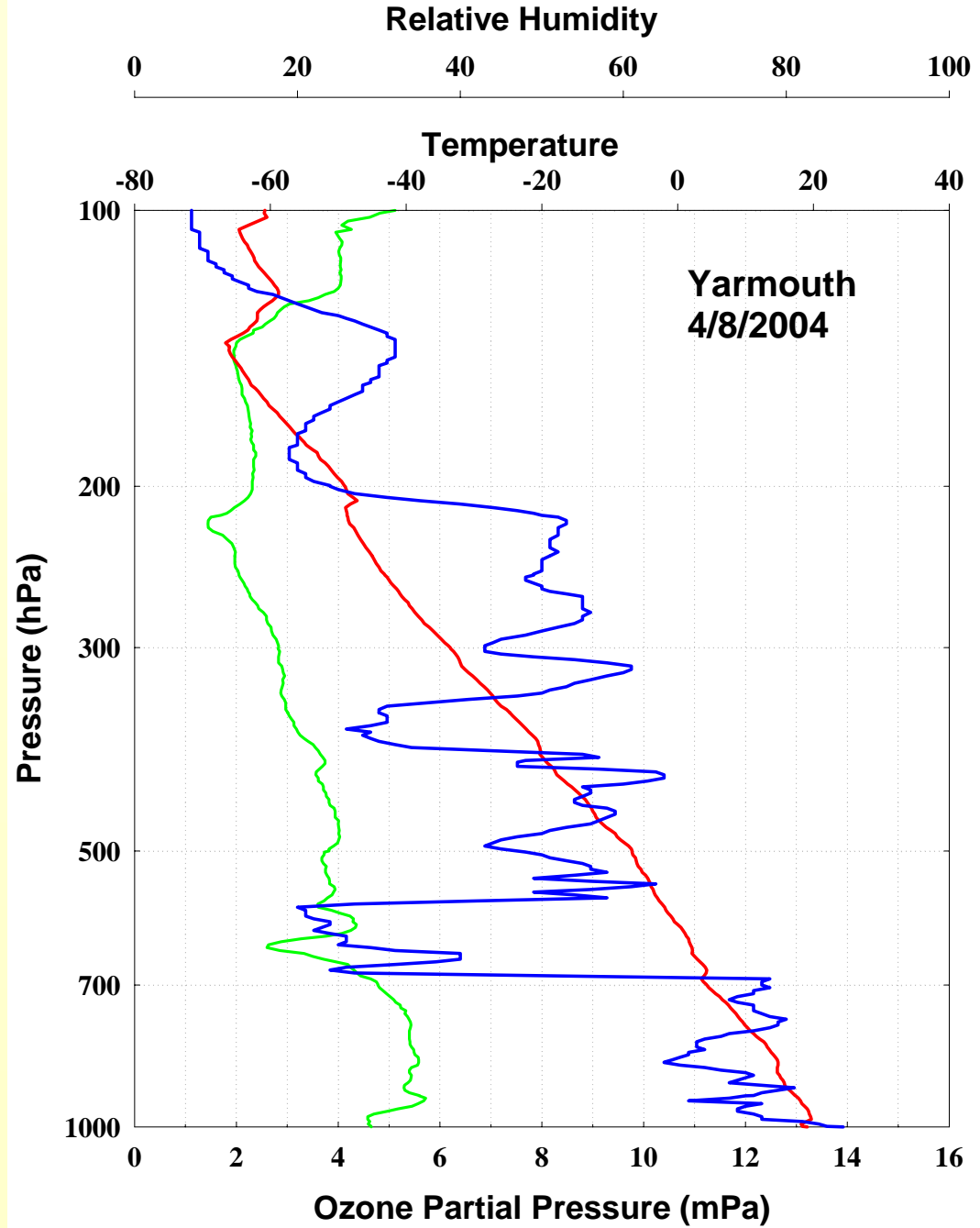












Yarmouth  
4/8/2004

