Rapid photochemical Production of A Ozone at High Concentrations in a Rural Site During Winter

Russ Schnell, Sam Oltmans, and Ryan Neely[1] , Maggie Endres[2], John Molenar[3] and Allen White[1]

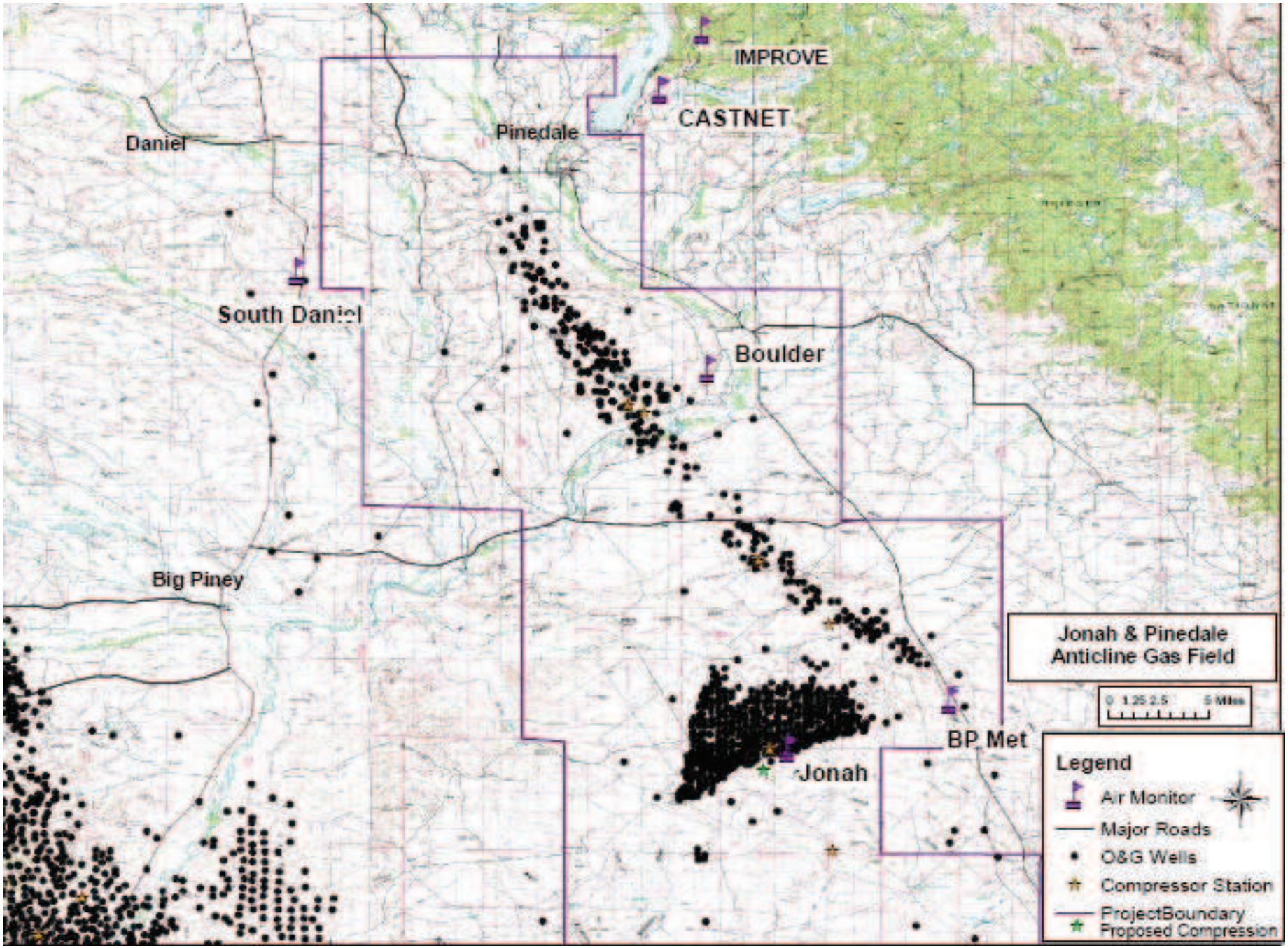
[1]NOAA, Earth System Research Laboratory, Boulder, CO 80305

[2]Wyoming Department of Air Quality, Cheyenne, WY

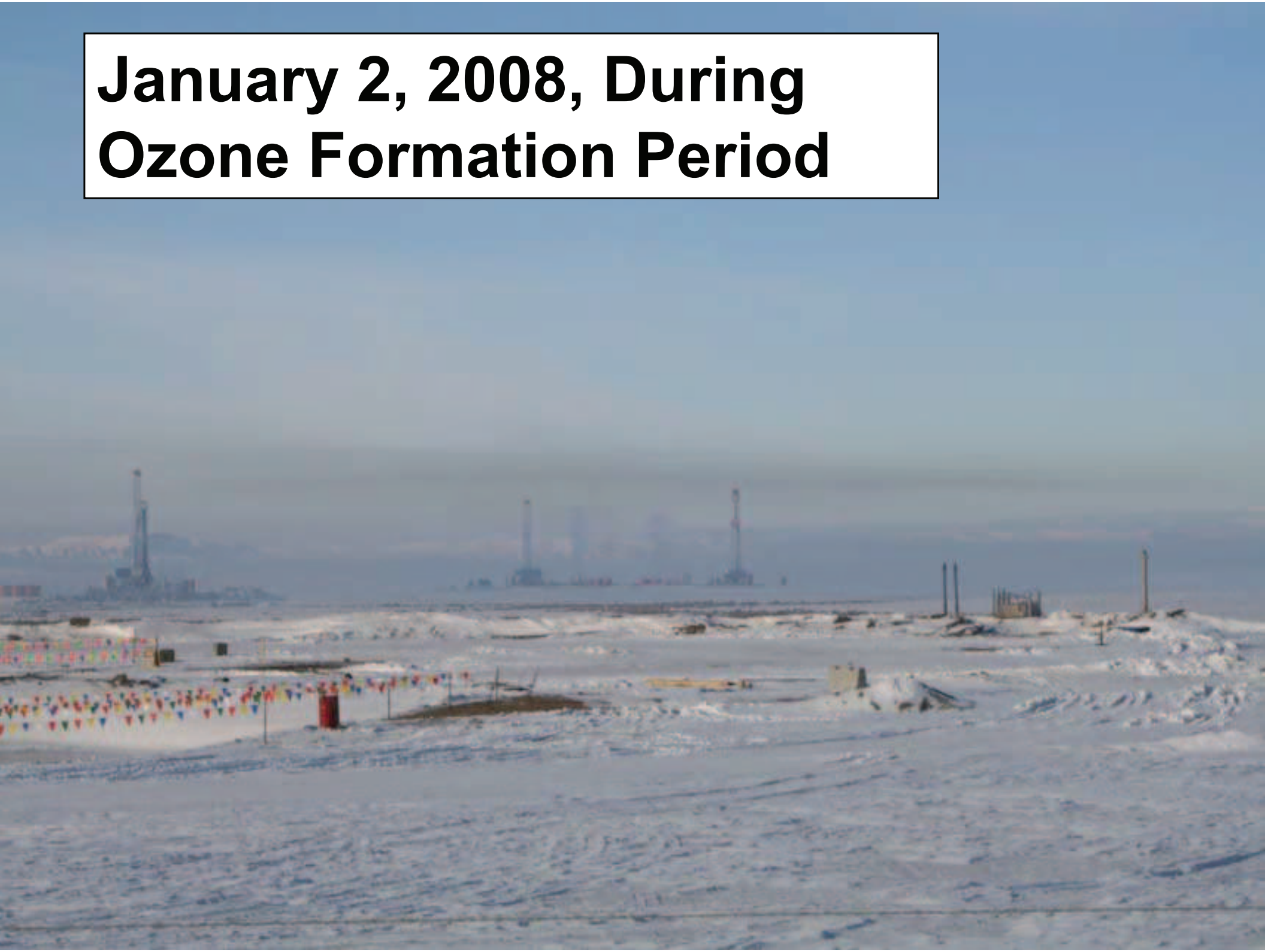
[3]Air Resource Specialists, Fort Collins. CO

My Documents,
Wyoming Ozone

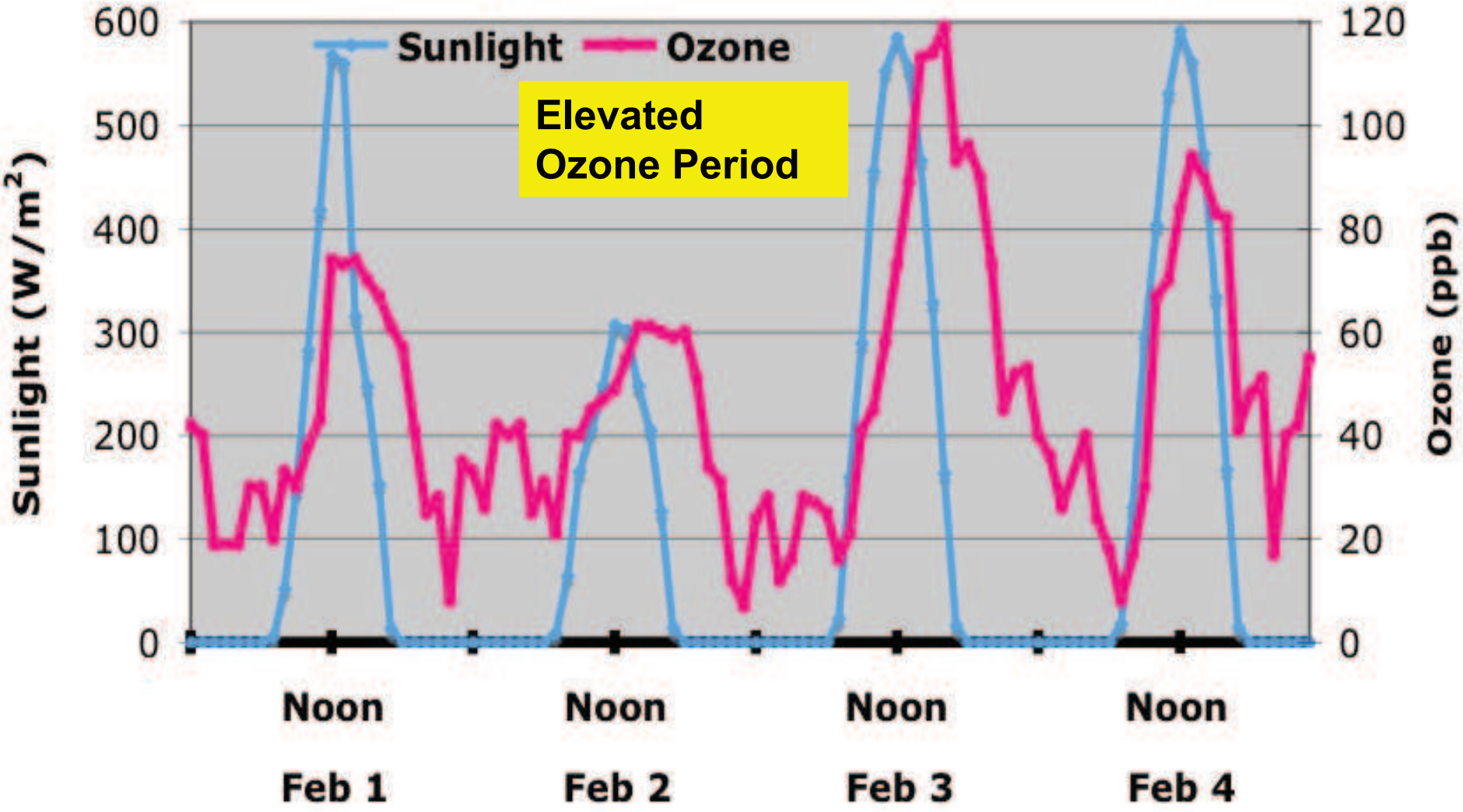
Pinedale Anticline, Jonah, Wyoming



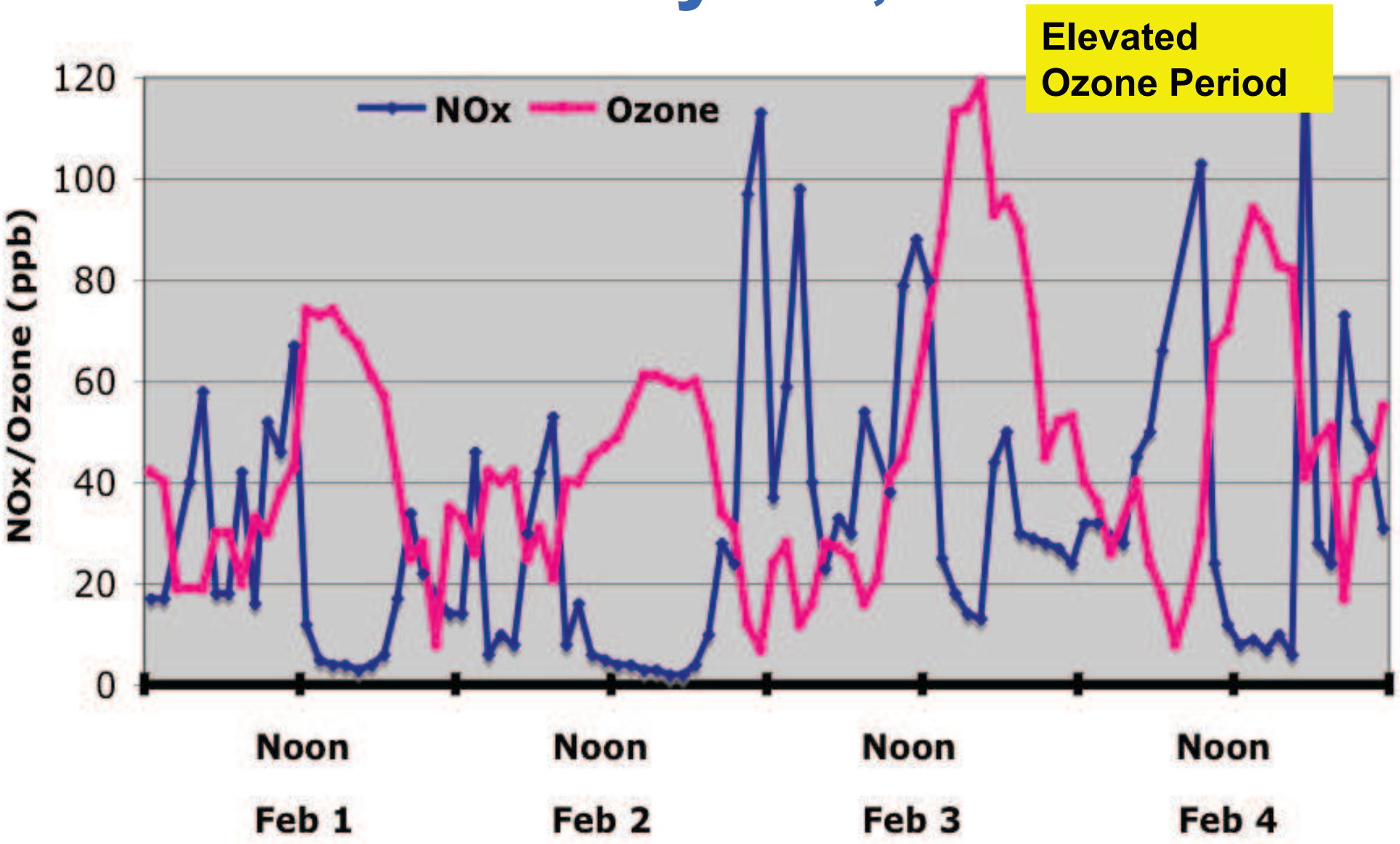
Well Density will increase 300% in 3-5 Years


January 2, 2008, During
Ozone Formation Period

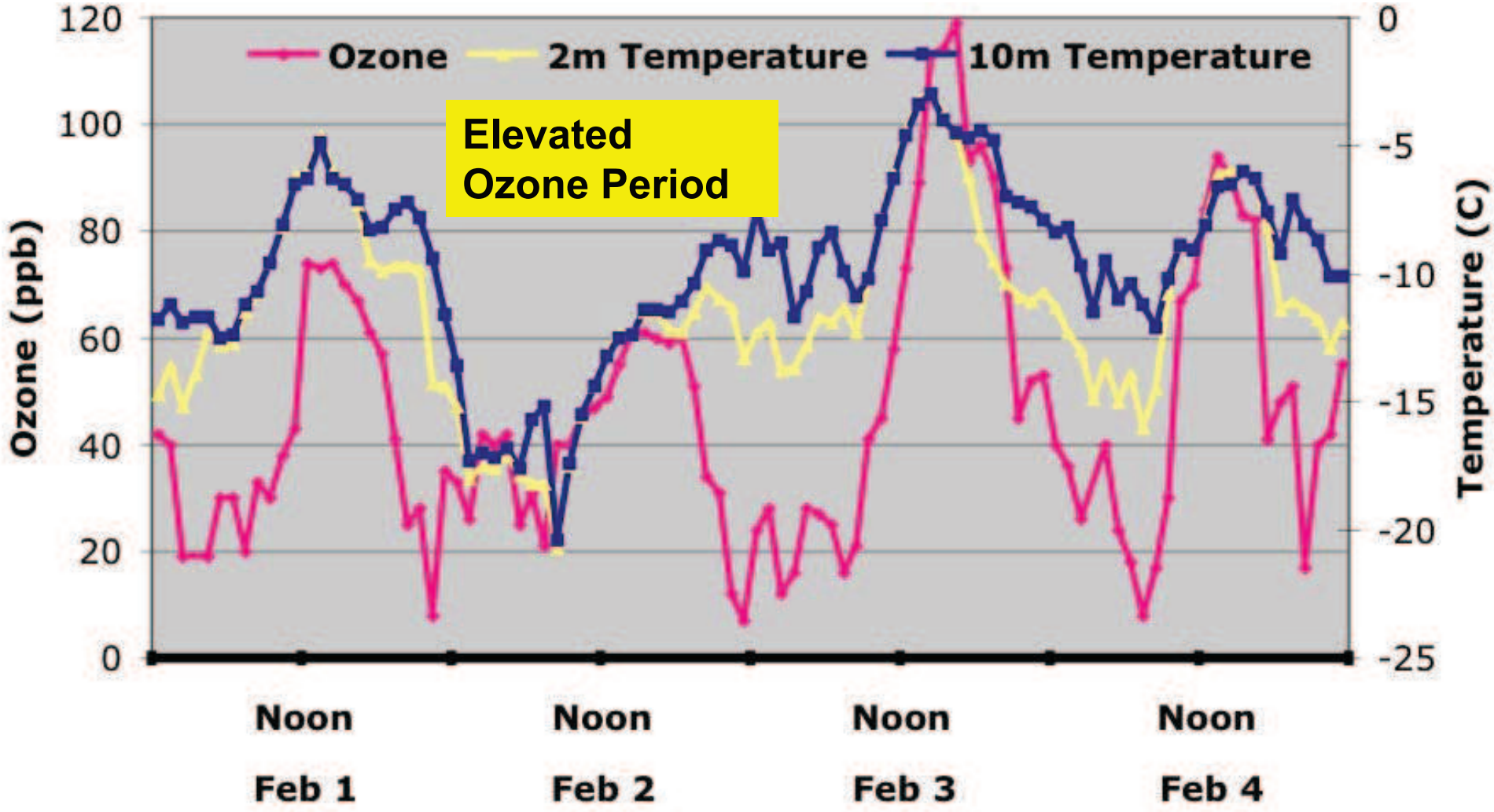
Solar Radiation and Ozone, Jonah, February 1-4, 2005



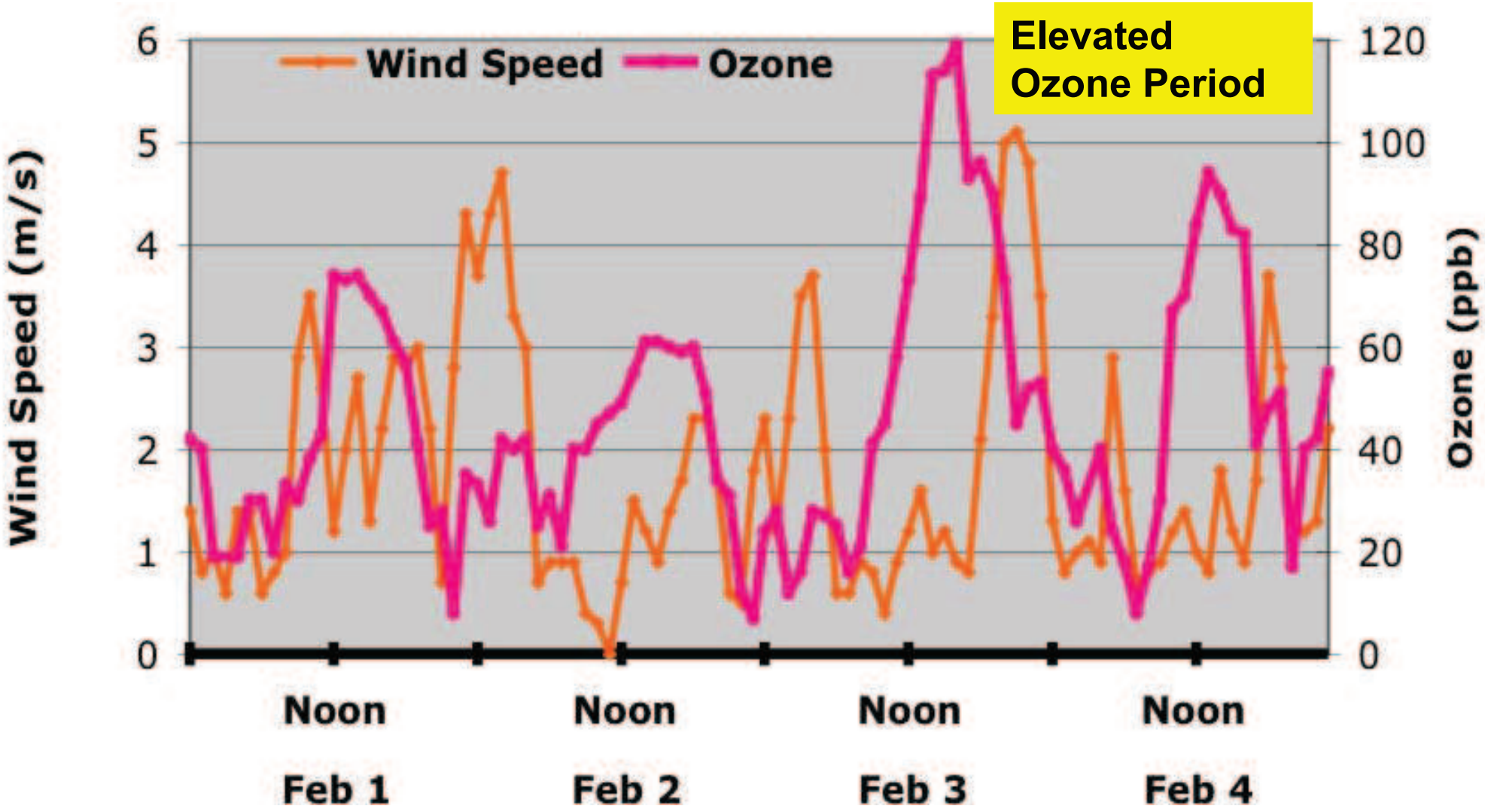
Ozone and NOx, Jonah, February 1-4, 2005



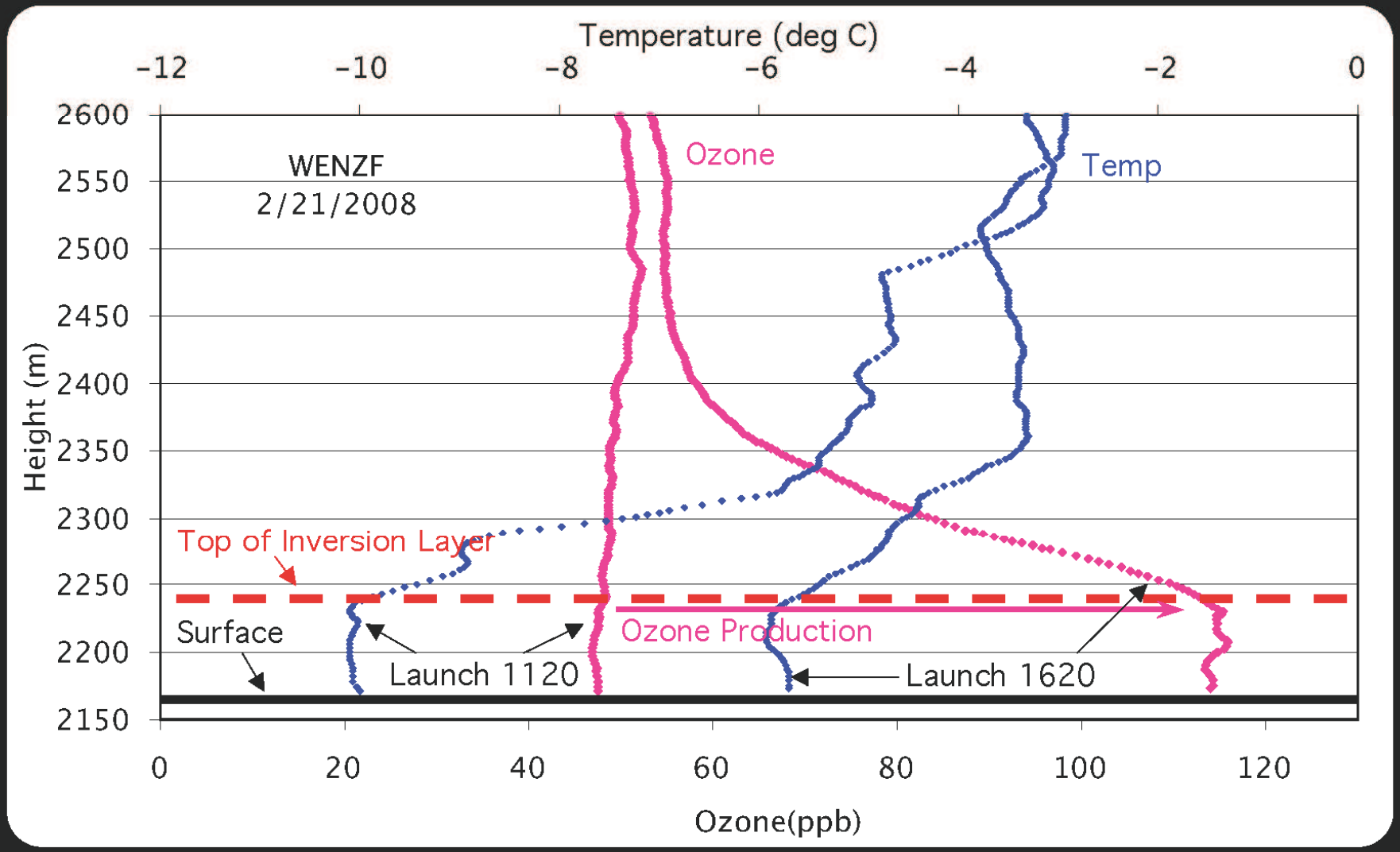
Ozone and Temperature, Jonah, February 1-4, 2005



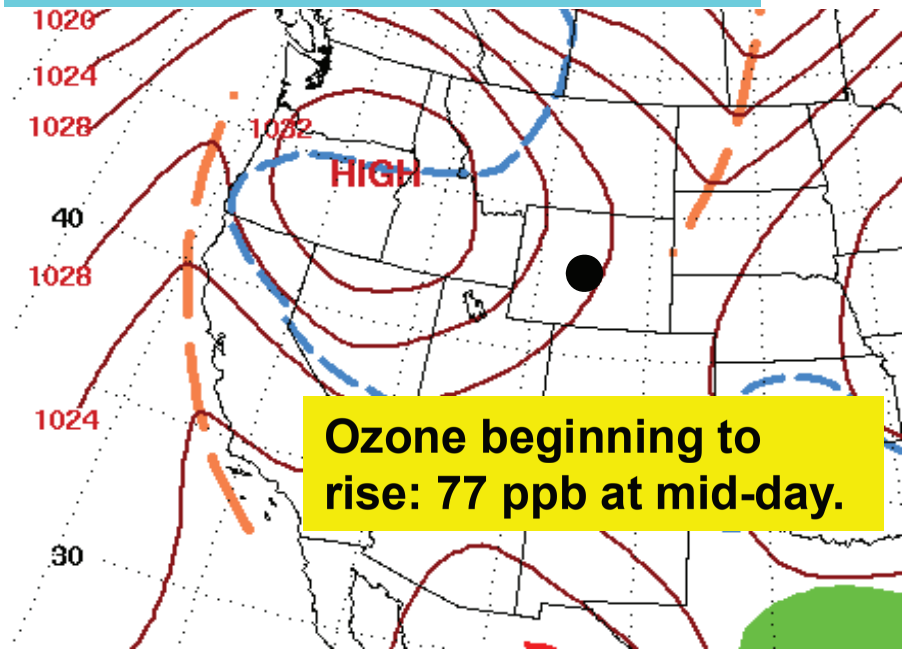
Ozone and Wind Speeds, Jonah, WY, Feb 1-4, 2005



Ozonesondes

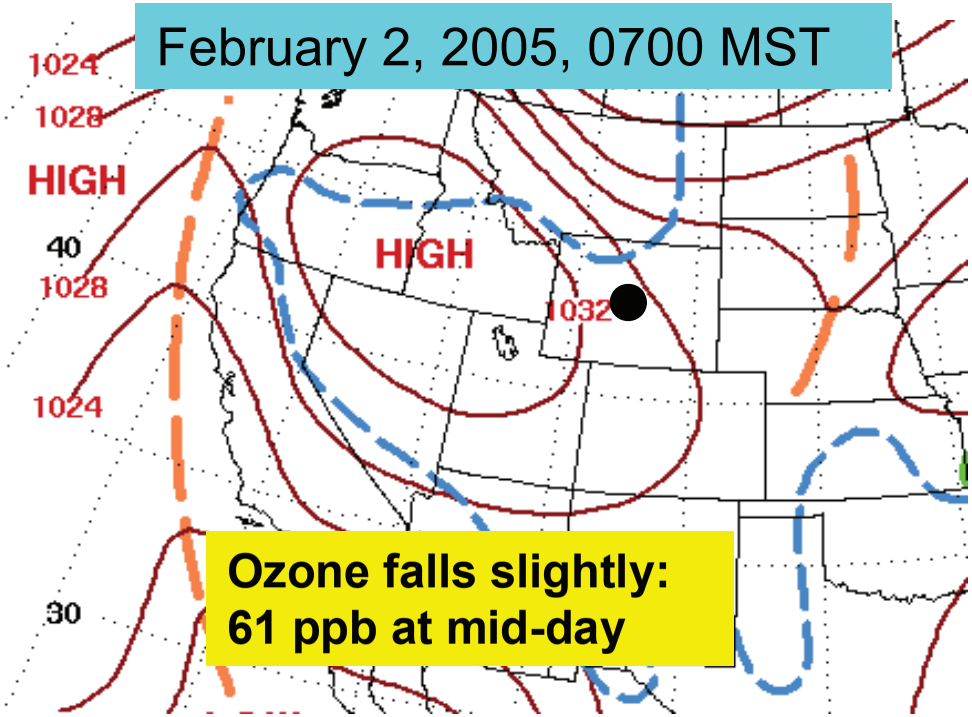


February 1, 2005, 0700 MST



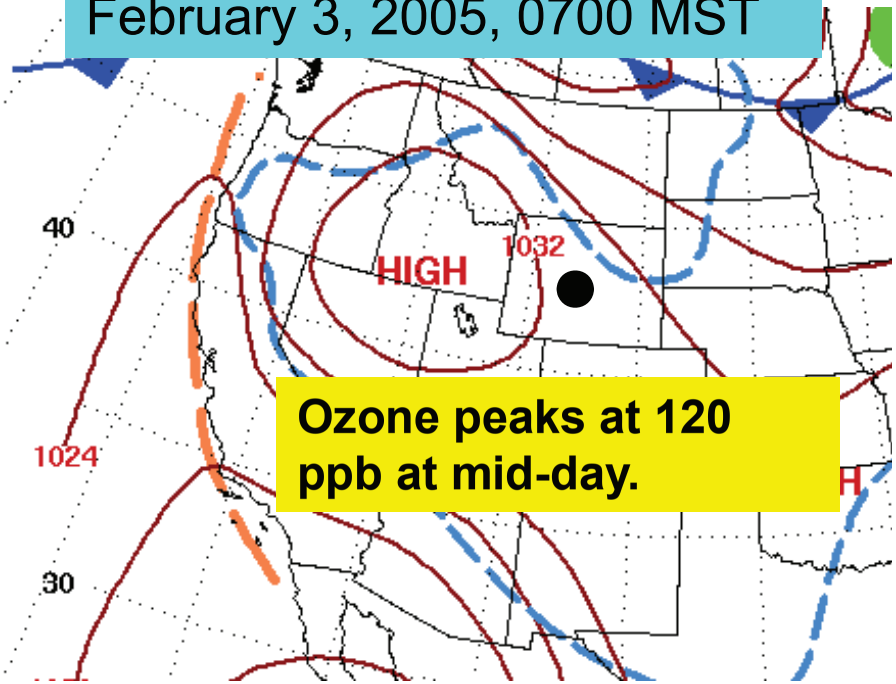
Ozone beginning to rise: 77 ppb at mid-day.

February 2, 2005, 0700 MST



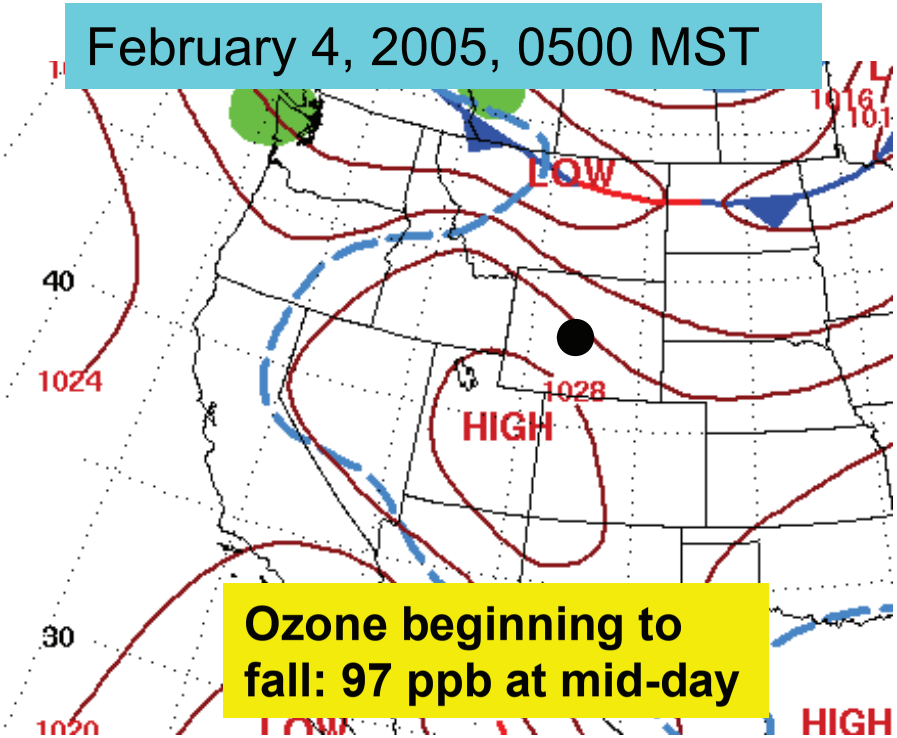
Ozone falls slightly: 61 ppb at mid-day

February 3, 2005, 0700 MST



Ozone peaks at 120 ppb at mid-day.

February 4, 2005, 0500 MST



Ozone beginning to fall: 97 ppb at mid-day

Economics Of The Jonah Gas Field

- The 30,000 acre Jonah gas field, 30 miles south of Pinedale, Wyoming, is estimated to hold 10 trillion cubic feet of natural gas.
- The field presently produces enough gas to serve 3,000,000 U.S. homes per year.
- In 2007, the Jonah Field produced natural gas revenues in excess of $8 billion.
- The value of the gas to be extracted from the field over 40 years is calculated to be in excess of $60 billion (2005 prices).

Thank You for Hanging In Until the END!