Daily Routine at the San Joaquin Valley APCD for Prescribed Burn Declarations

Smoke Management Goals

- Minimize Local and Regional Health Effects
- Minimize Nuisance Complaints
- Comply with NAAQS (O3, PM10, PM2.5)

Synoptic Weather Pattern Associated Poor Dispersion and No Go Decisions

- Pattern dominated by High Pressure
- Weak Easterly Winds Aloft Opposing Normal Thermally Driven Winds
- Large Scale Weak Pressure Gradients
- Subsidence
- Warmer Temperatures Aloft
- Warm Surface Temperatures (Ozone)

Daily Routine for Rx Burn Declaration

- Assess Current Smoke and Fire Situation
- Meteorology Review and Forecast
- Air Quality Review and Forecast
- Consensus on Smoke Forecast NWS, ARB, SJVAPCD, Adjacent Districts
- Coordination of Agricultural and RX burn forecasts
- Distribution of Information

Early Morning Tasks

- Previous Day Air Quality Review
- Atmospheric Sounding Analyses
- Synoptic Map Analyses
- Forecast Model Analyses

Late Morning Early Afternoon

- Review of Updated Synoptic models
- Coordination with SJV Air Quality Inspectors
- Preliminary Air Quality Forecast Model Run
- NWS, ARB, and Districts Forecaster Call
- Coordination with Adjacent Districts

Late Afternoon

- Air Quality Model Run
- Air Quality Review
- Meteorology review
- CB-3 Distribution
- Agricultural Burn Status Declaration
- Air Quality Forecast Distribution
- Write Forecast Discussion

Assessment of Current Smoke and Fire Situation

- Wildland Fire Use Fires
- Wildfires
- Emergency Response Fires
- Topography
- Population Exposure

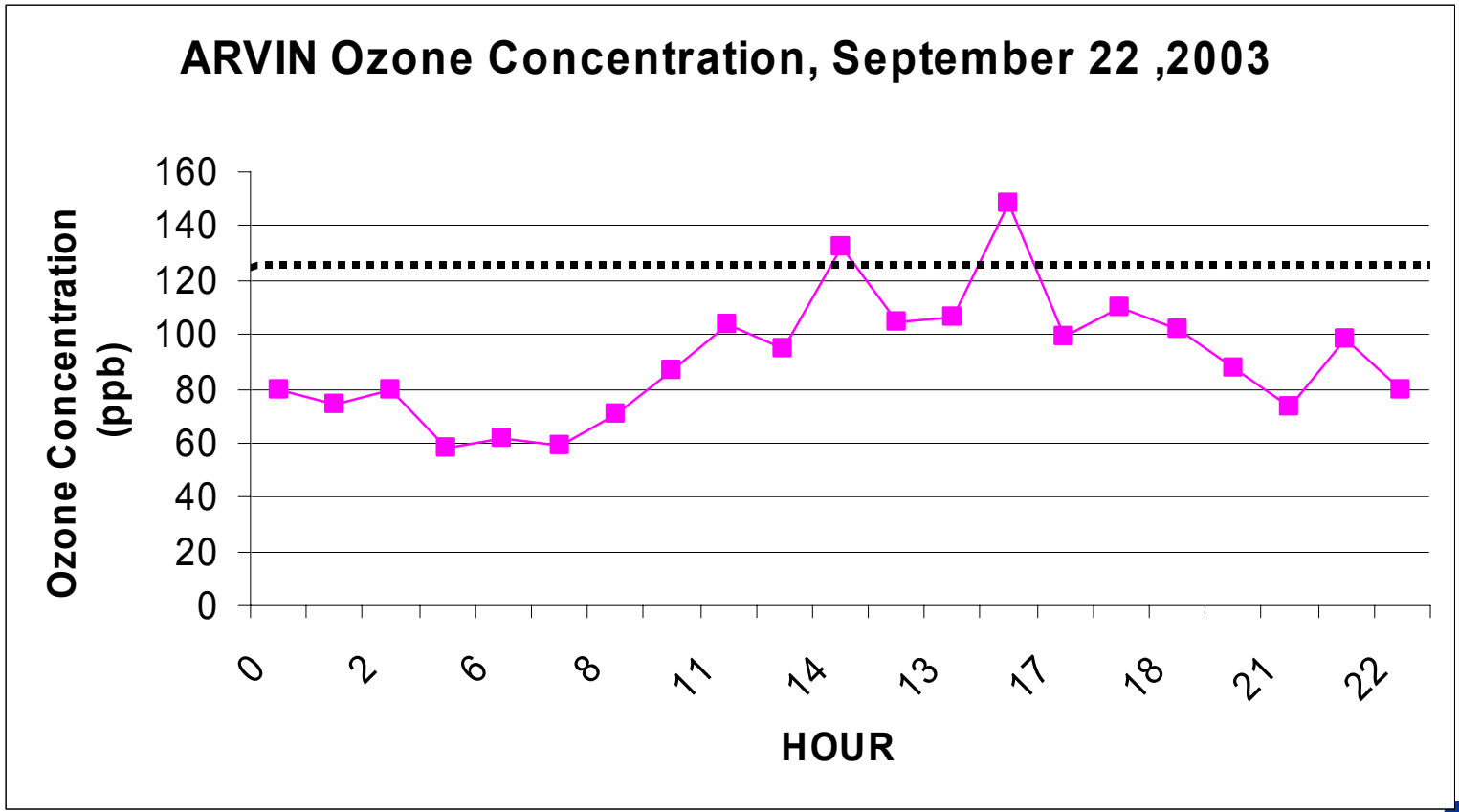
View from Moro Rock
Looking South Across
the Middle Fork of the Kaweah
October 9, 2003
Castle Rocks
Paradise 2 fires

October 9, 2003
Paradise 2 fires
Milk Ranch Peak

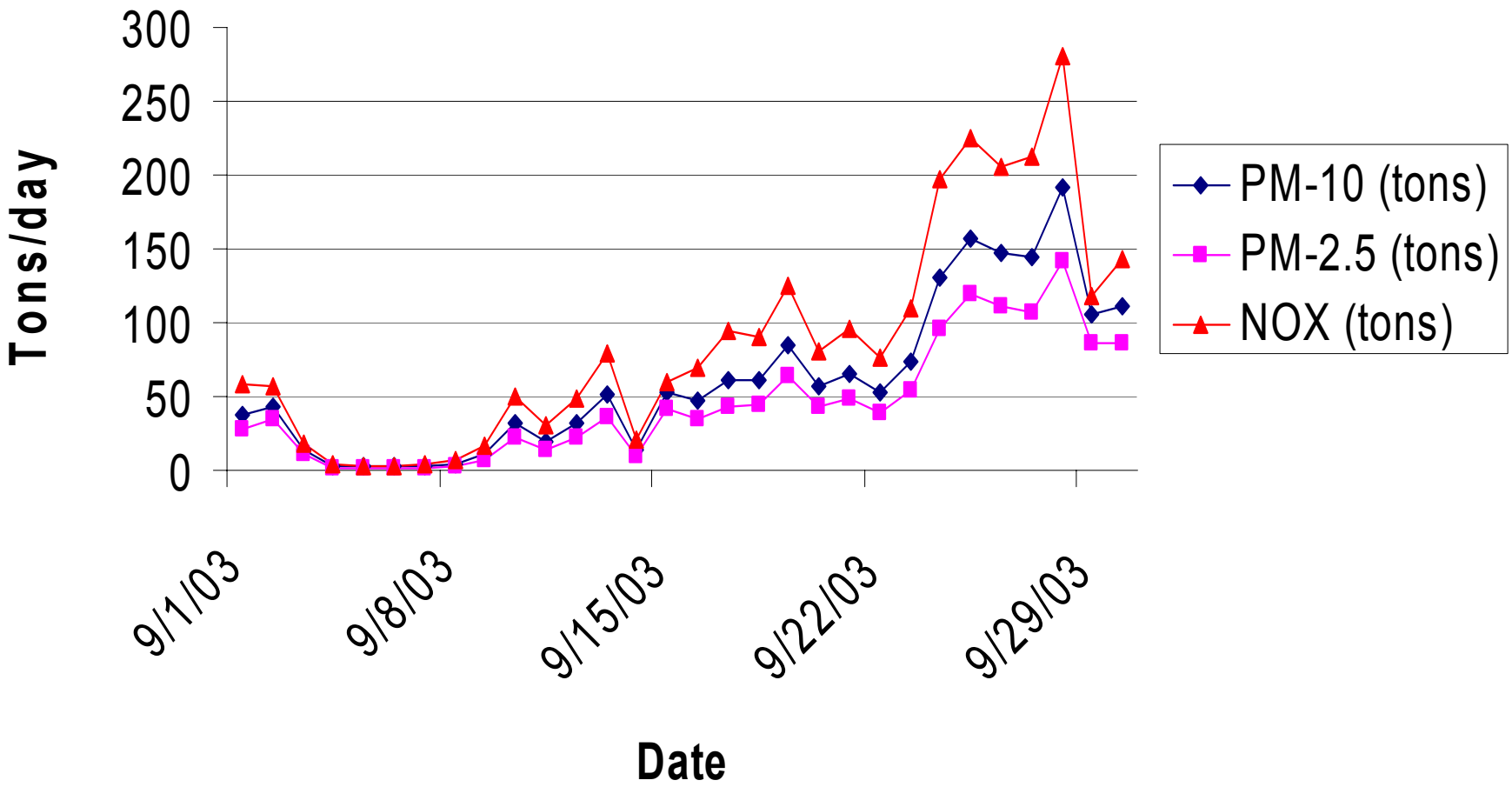
October 9, 2003
Milk Ranch Peak
Kaweah Middle Fork
Toward Three Rivers

Atwood Precribed Burn Topography

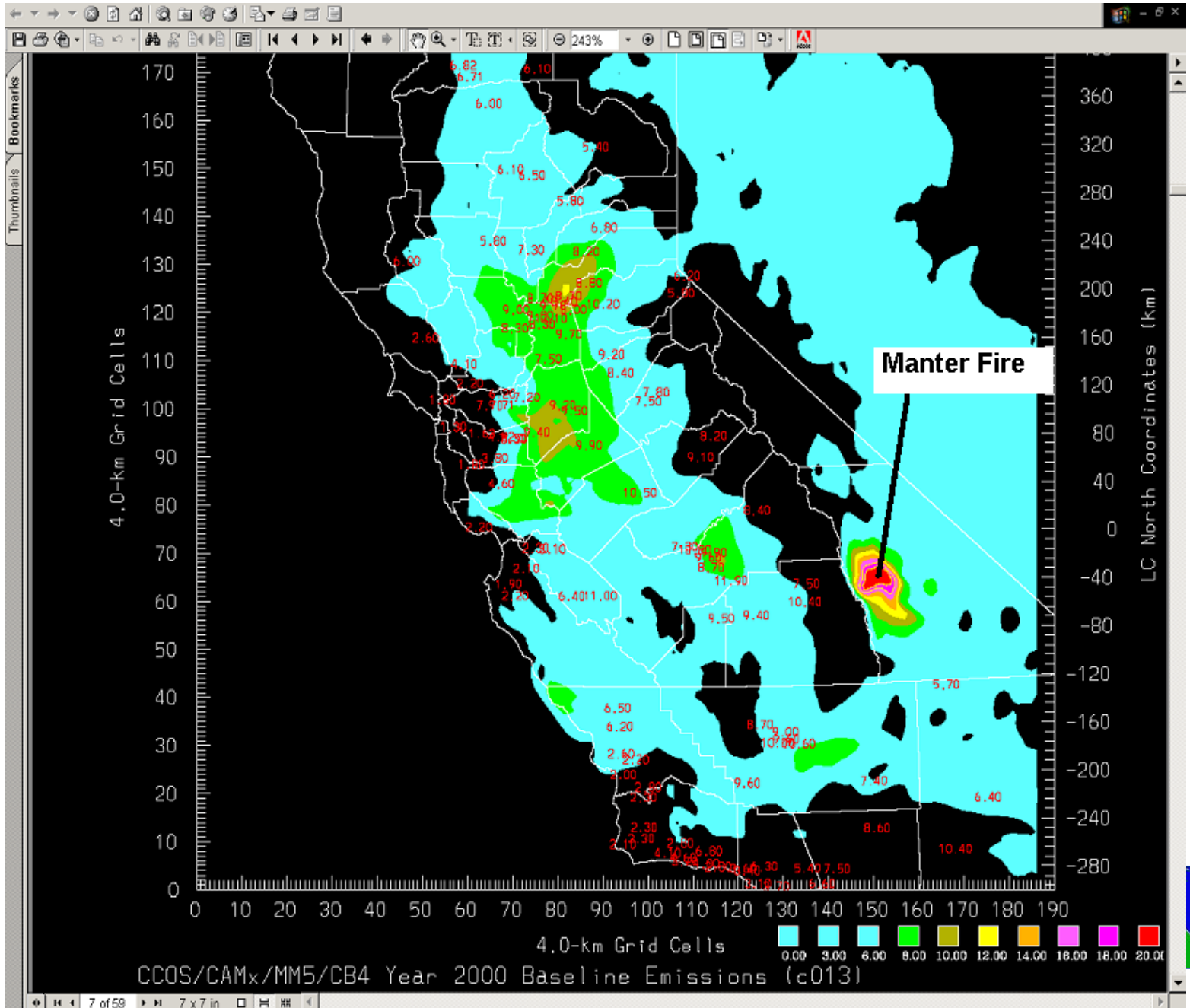
ARVIN Ozone During Fire Use Fire Events



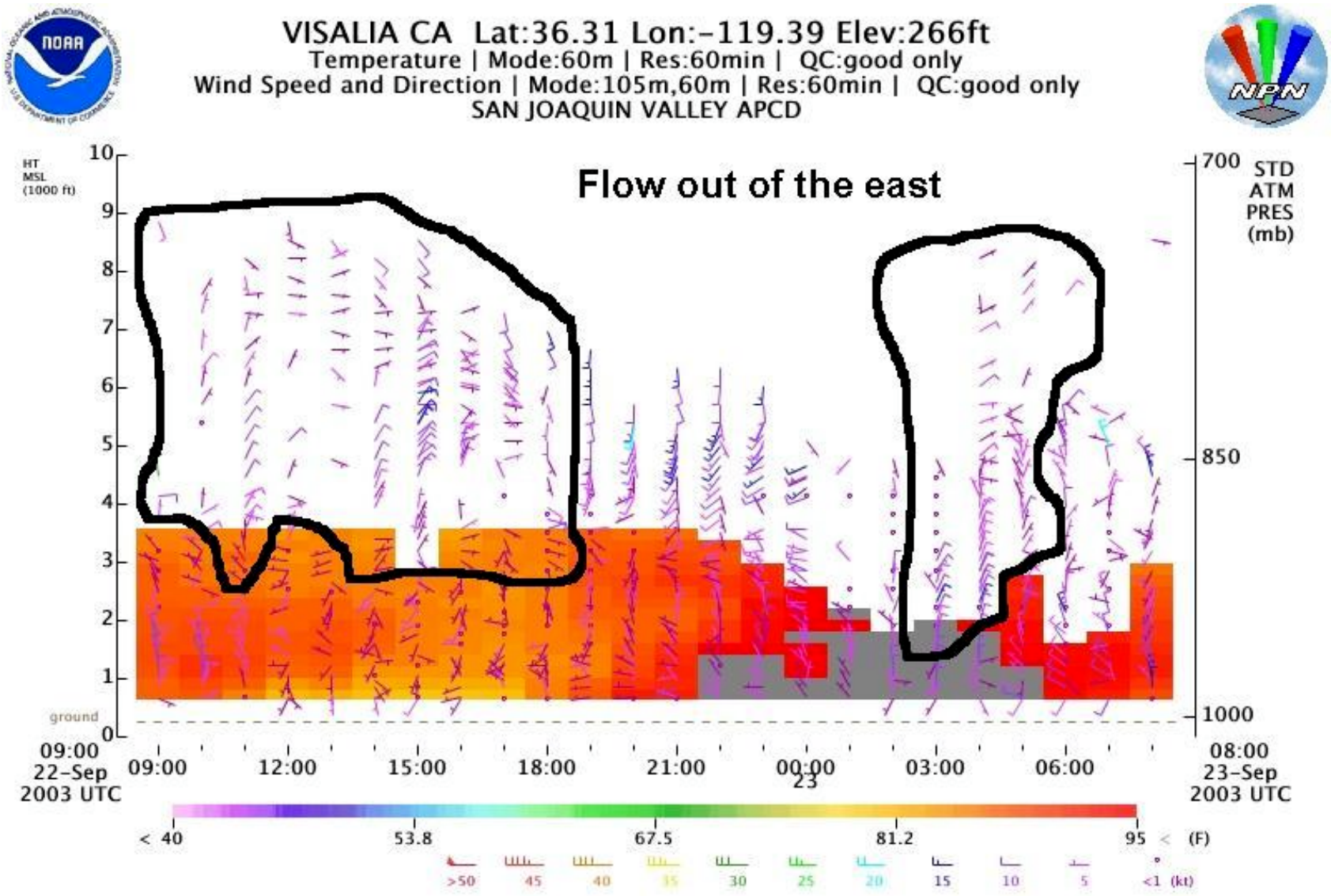
SJV Wildland Fire Use Emissions September 2003
Tons Per Day



Ozone Concentrations Simulated from Manter Fire 7/29/2000



September 22, 2003, Visalia Profiler Showing East Flow Aloft



Summary

- Assessment of Existing and Forecast Meteorology and Emissions Conditions
- Communication Interagency, Intragency (SJVAPCD Compliance, Meteorology, ARB, NWS, and Burn Agencies)