

# URBAN 2000

## One Year Later:

### A NOAA/FRD Perspective

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# NOAA/FRD Deployment Tasks

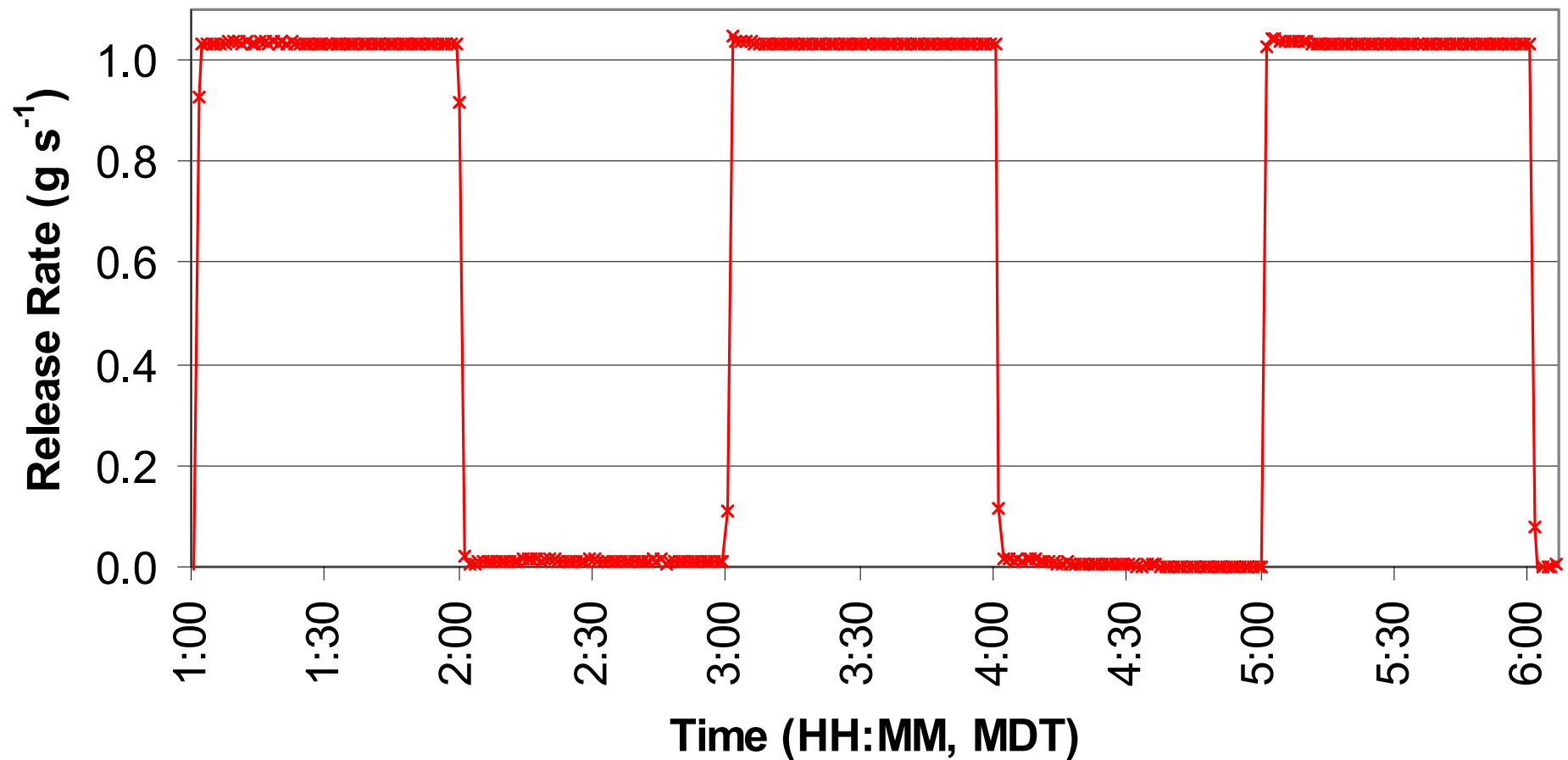
- SF<sub>6</sub> Release
- Stationary SF<sub>6</sub> Plume Measurements
- Mobile SF<sub>6</sub> Plume Measurements
- One Radar Profiler and SODAR Site
- Two 3-D Sonic Anemometers Near the Release Site

# SF<sub>6</sub> Release RV

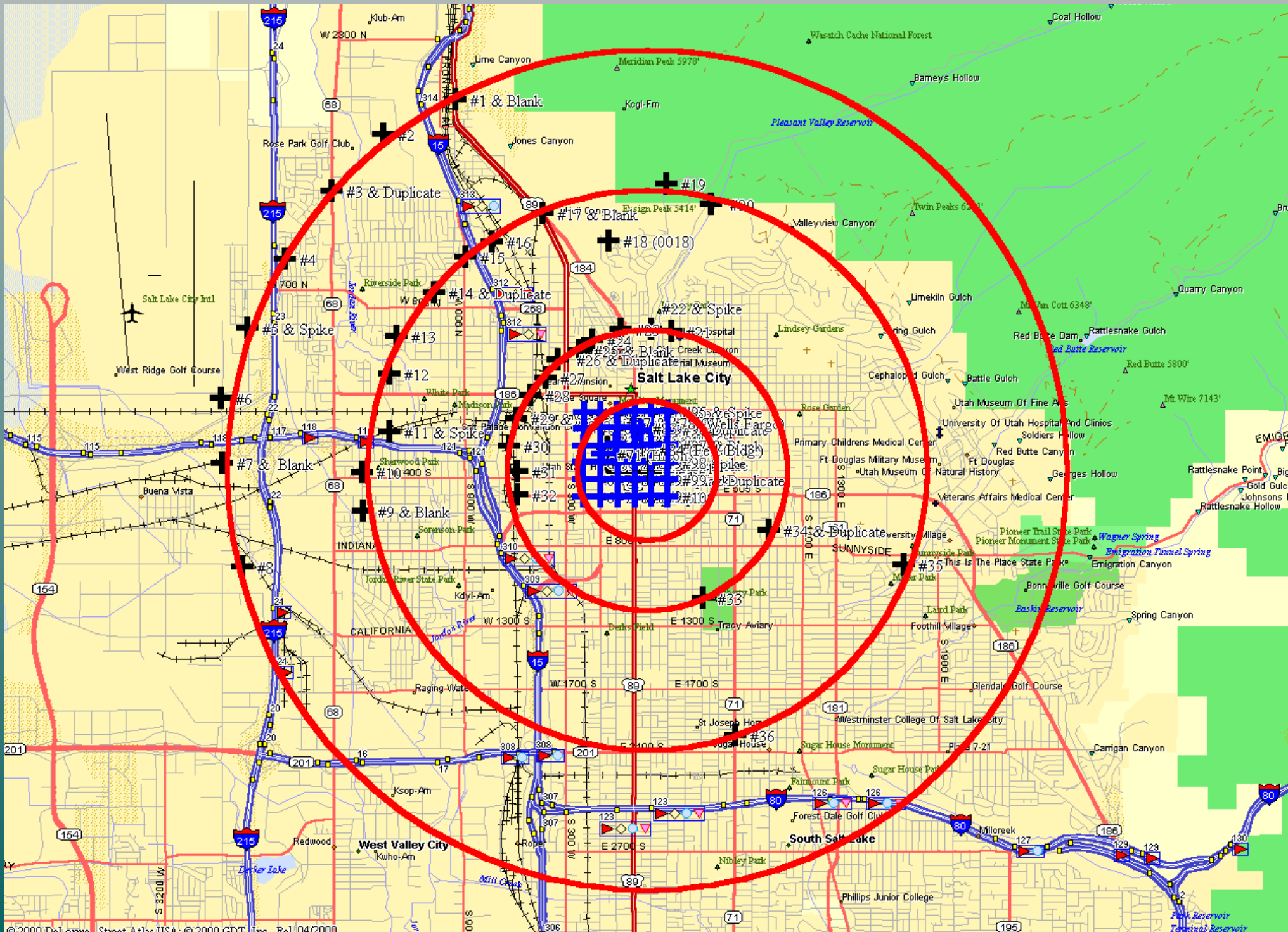


# Typical SF<sub>6</sub> Release Rate

Test 1 SF6 Release - October 7, 2000

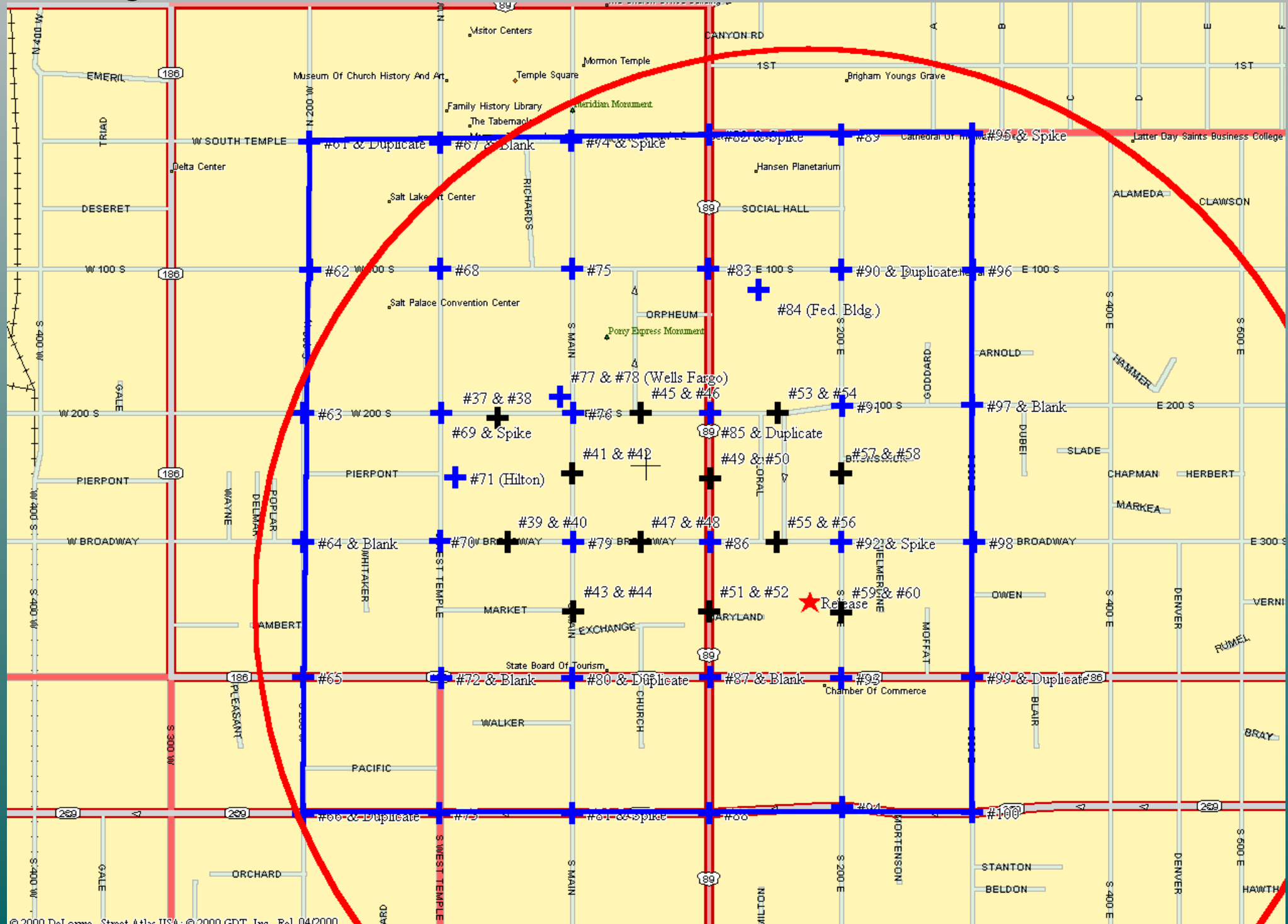


# SF<sub>6</sub> Experiment Domain—1,2,4,6 km Arcs





# SF<sub>6</sub> Experiment Domain--Downtown



# Stationary SF<sub>6</sub> Sampling

- 40 SF<sub>6</sub> + perfluorocarbon samplers
- 60 SF<sub>6</sub> only samplers
- 10 duplicate SF<sub>6</sub> samplers
- 10 blank SF<sub>6</sub> samplers
- 10 control (spike) samplers
- Placed on every street corner downtown
- Mid-block locations near release
- Three building tops
- Arranged in 2, 4, and 6 km arcs in suburbs

# Air Sampler, Sample Cartridge, and Barcode Reader





# Air Sampler Modified for CATS



# Air Sampler Modified for CATS



# Automated Analytical System





# Mobile SF<sub>6</sub> Analyzer Fleet

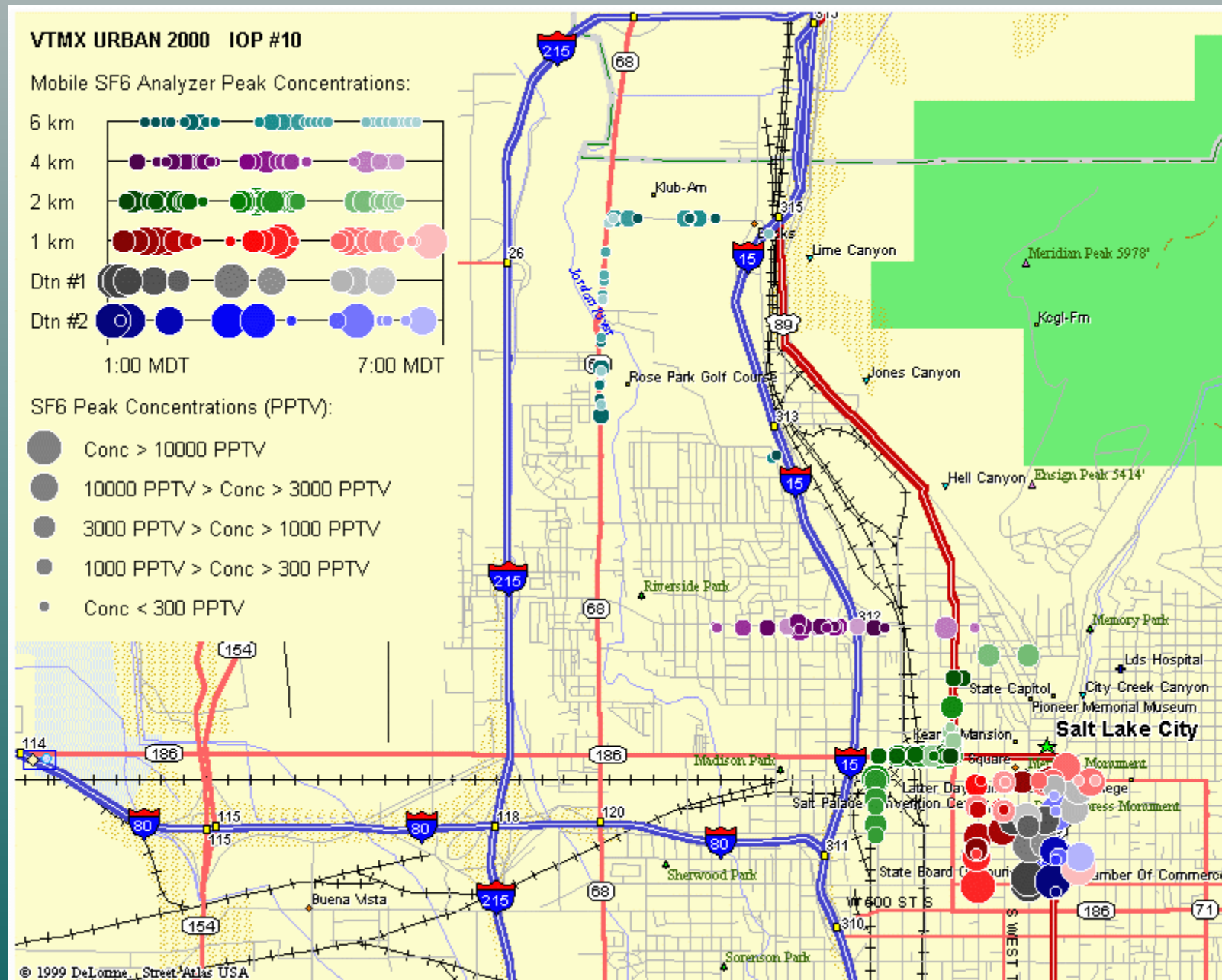




# Mobile SF<sub>6</sub> Analyzer—TGA & Computer

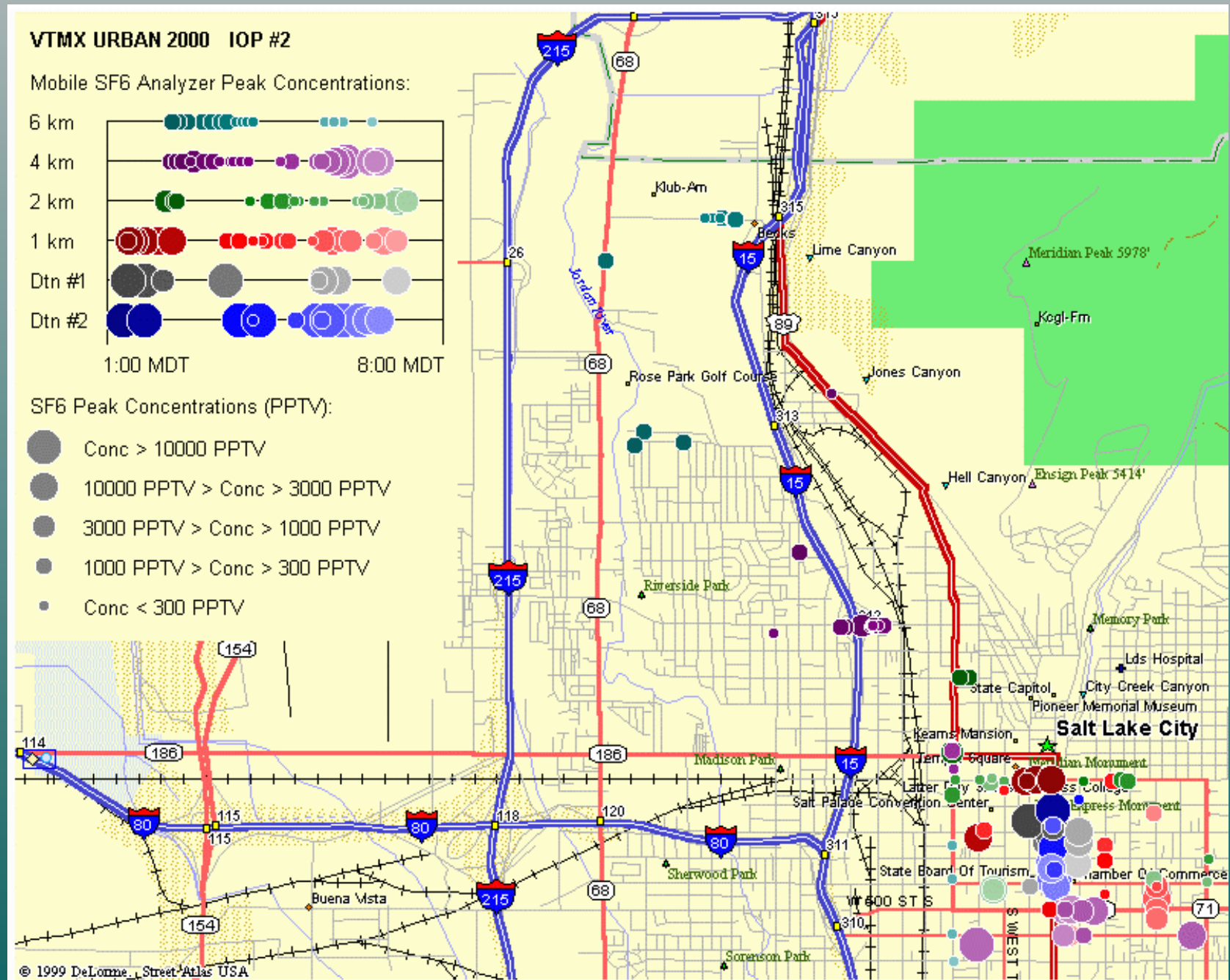


# Real-time Analyzer Results – IOP 10

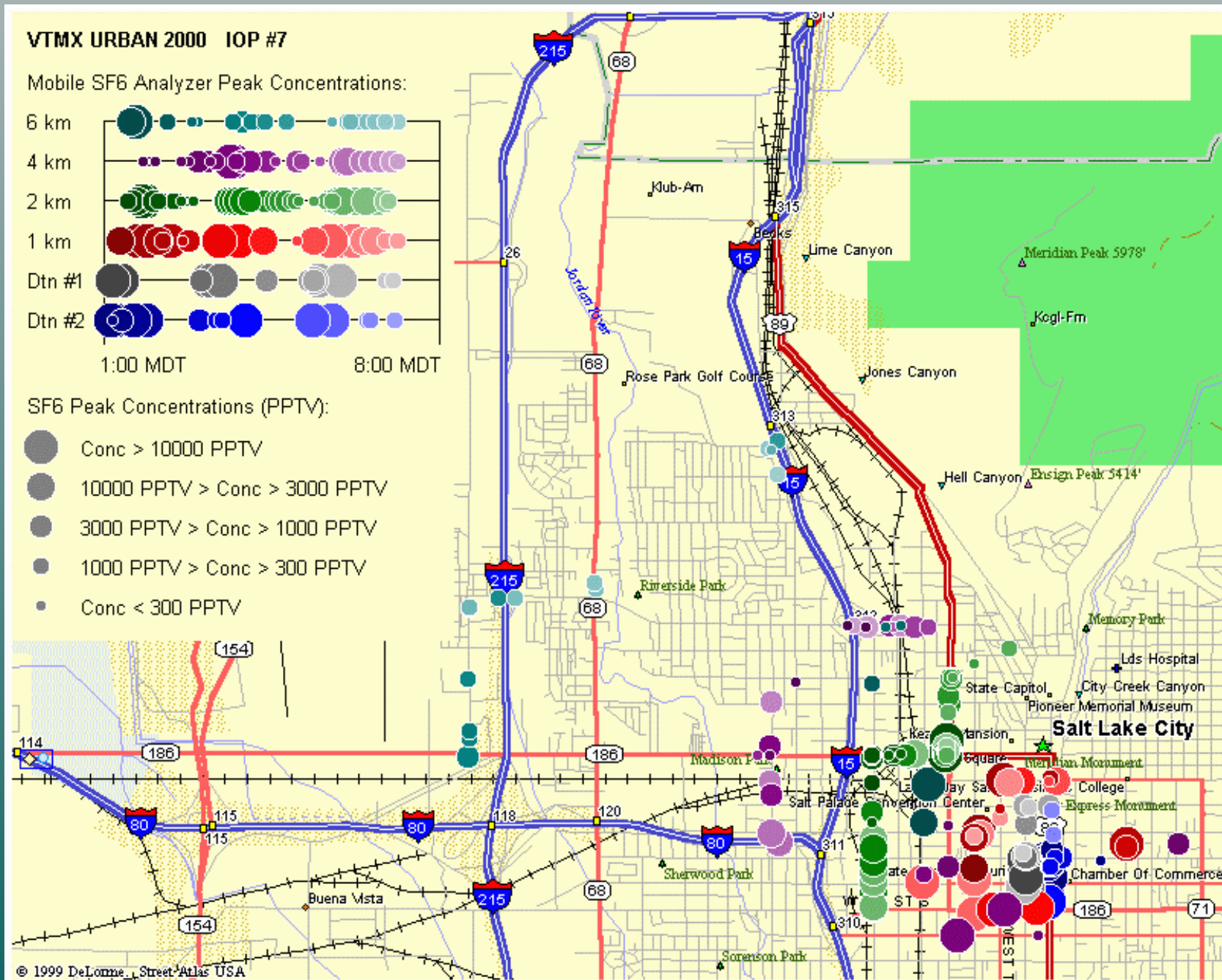




# Real-time Analyzer Results – IOP 2

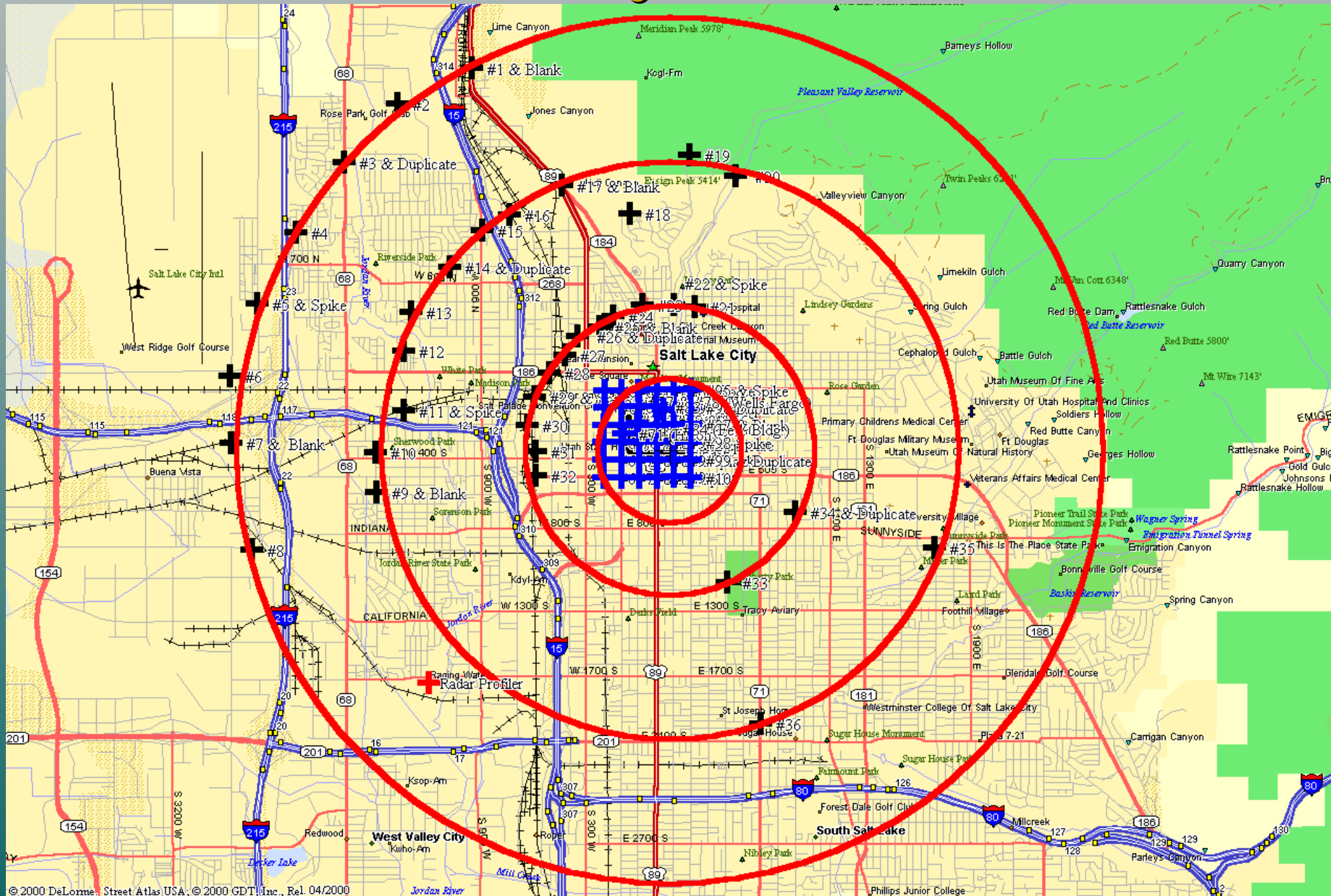


# Real-time Analyzer Results – IOP #7





# Radar Profiler & SF<sub>6</sub> Experiment Domain

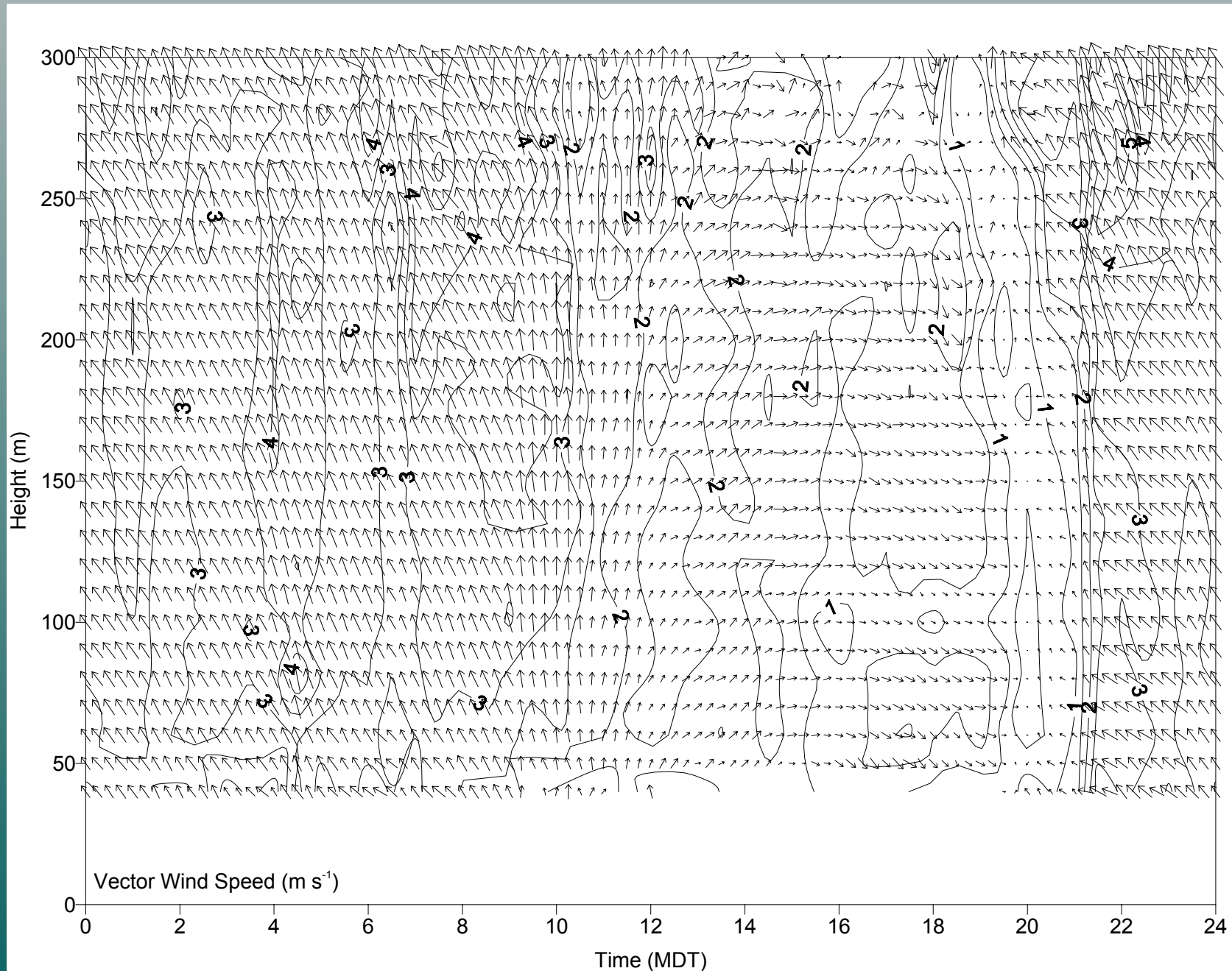


# Radar Profiler and SODAR

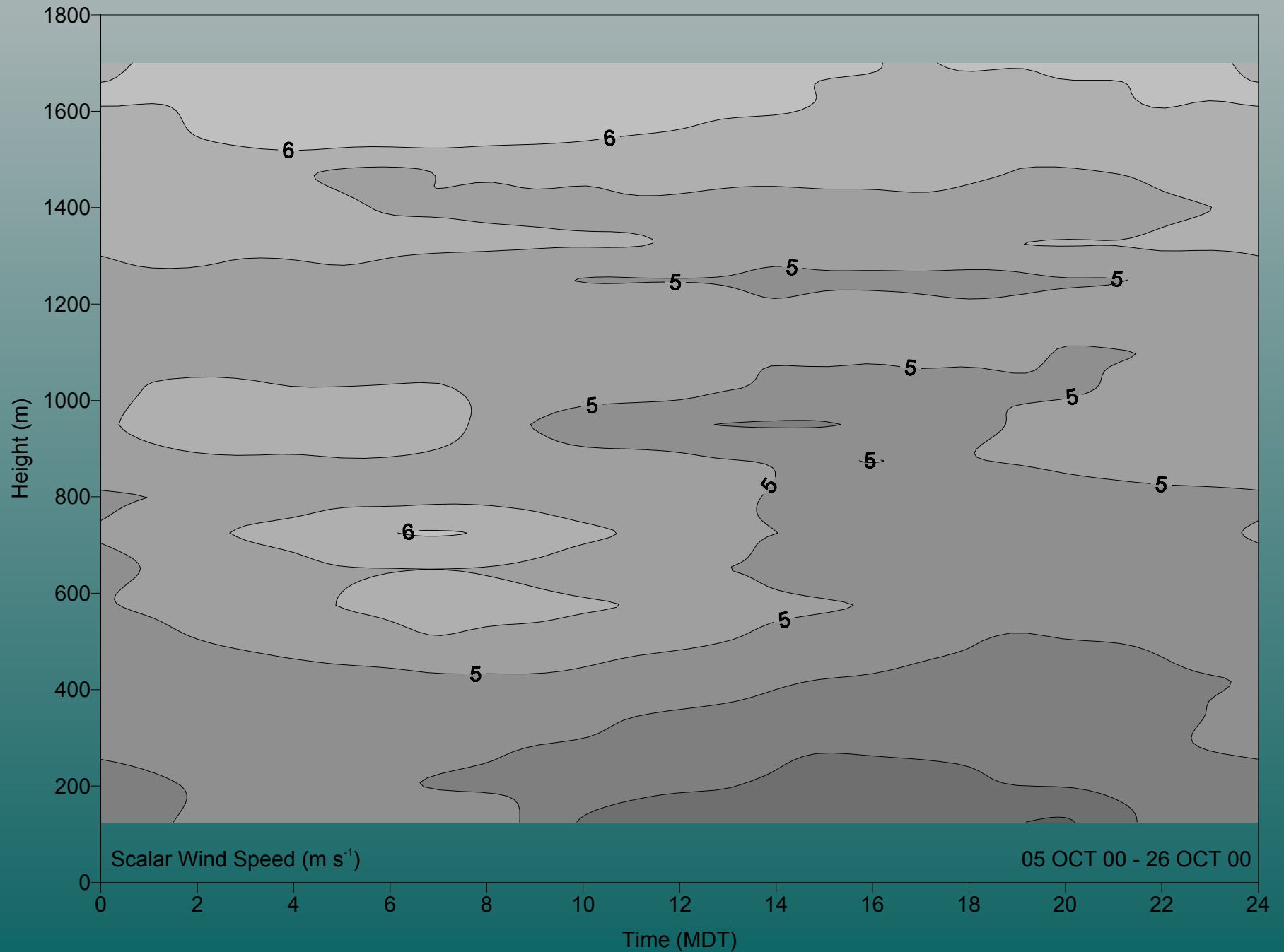




# SODAR Wind Vector Averages



# Profiler Scalar Wind Speed Averages





# Mounted Sonic Anemometers



