

URBAN 2000 SF₆ Atmospheric Tracer Results from the Suburban Experiment Domain

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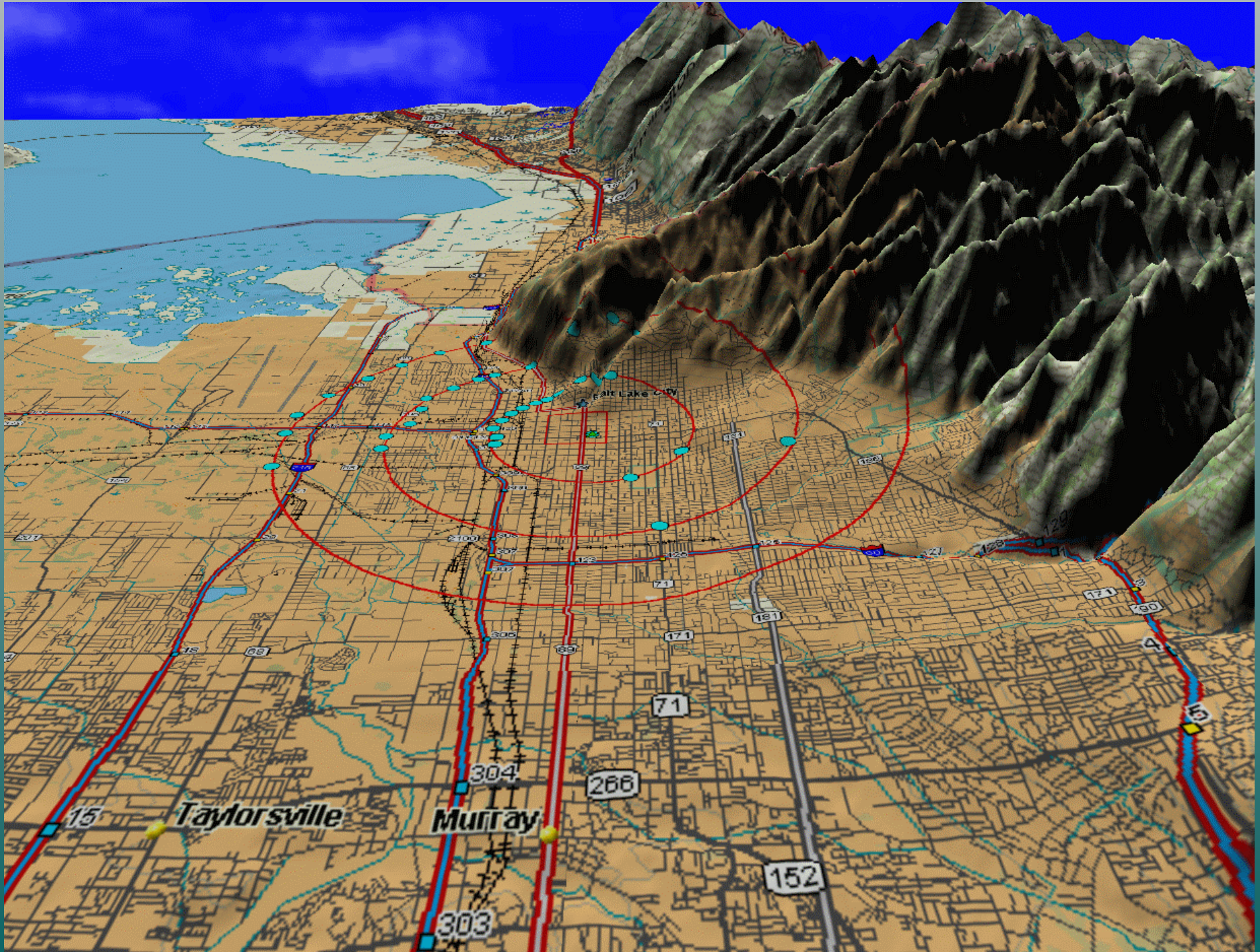
Lawrence Livermore National Laboratory

(Funded by DOE CBNP)

NOAA/FRD Deployment Tasks

- SF₆ Dissemination
- Stationary SF₆ Plume Measurements
- Mobile SF₆ Plume Measurements
- Stationary Urban Perfluorocarbon Sampling
- Radar Wind Profiler and SODAR at Raging Waters
- Two 3-D Sonic Anemometers Near the Release Site

Study Domain Topography



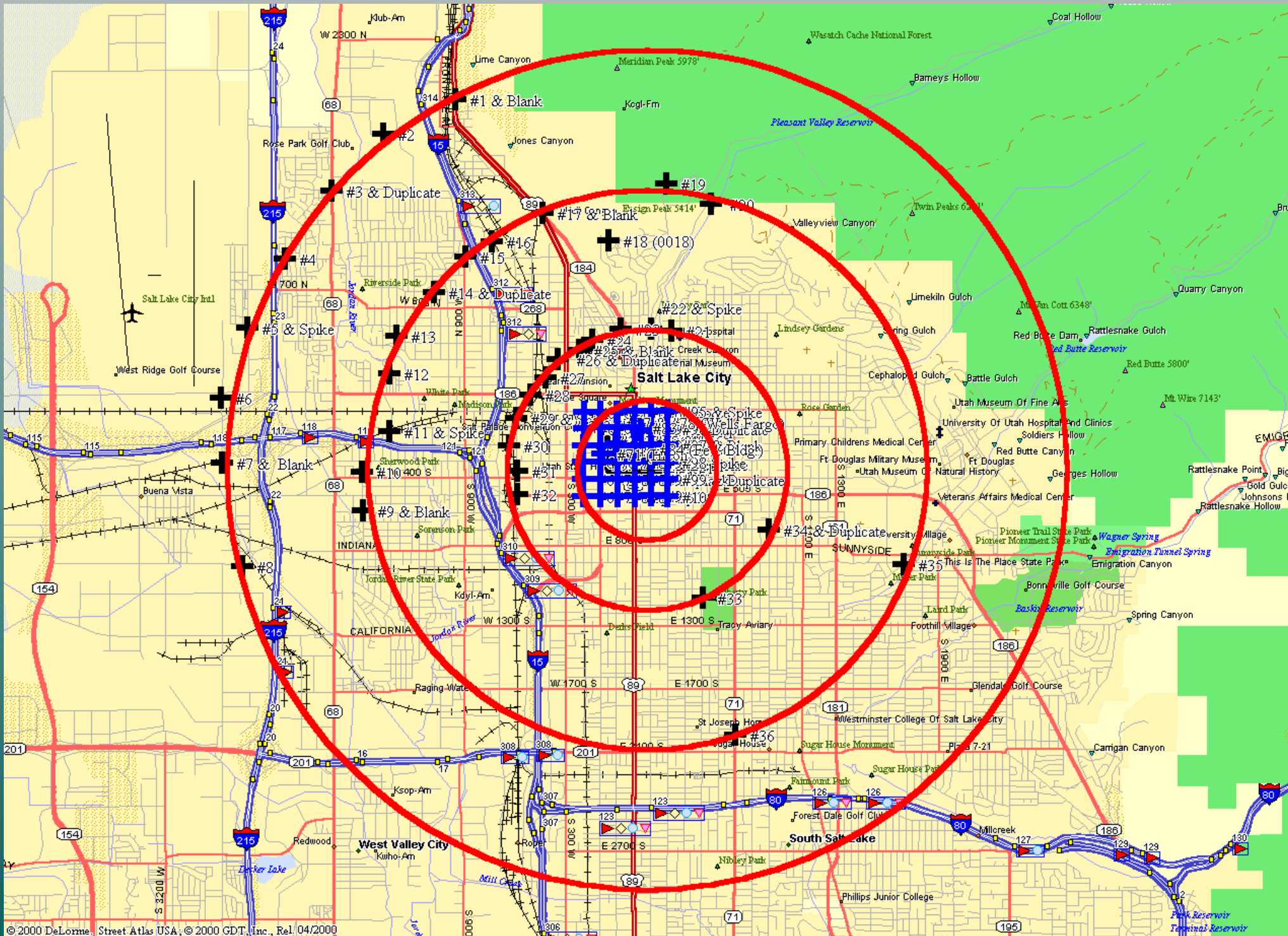
Mobile SF₆ Analyzer



Mobile SF₆ Analyzer Fleet

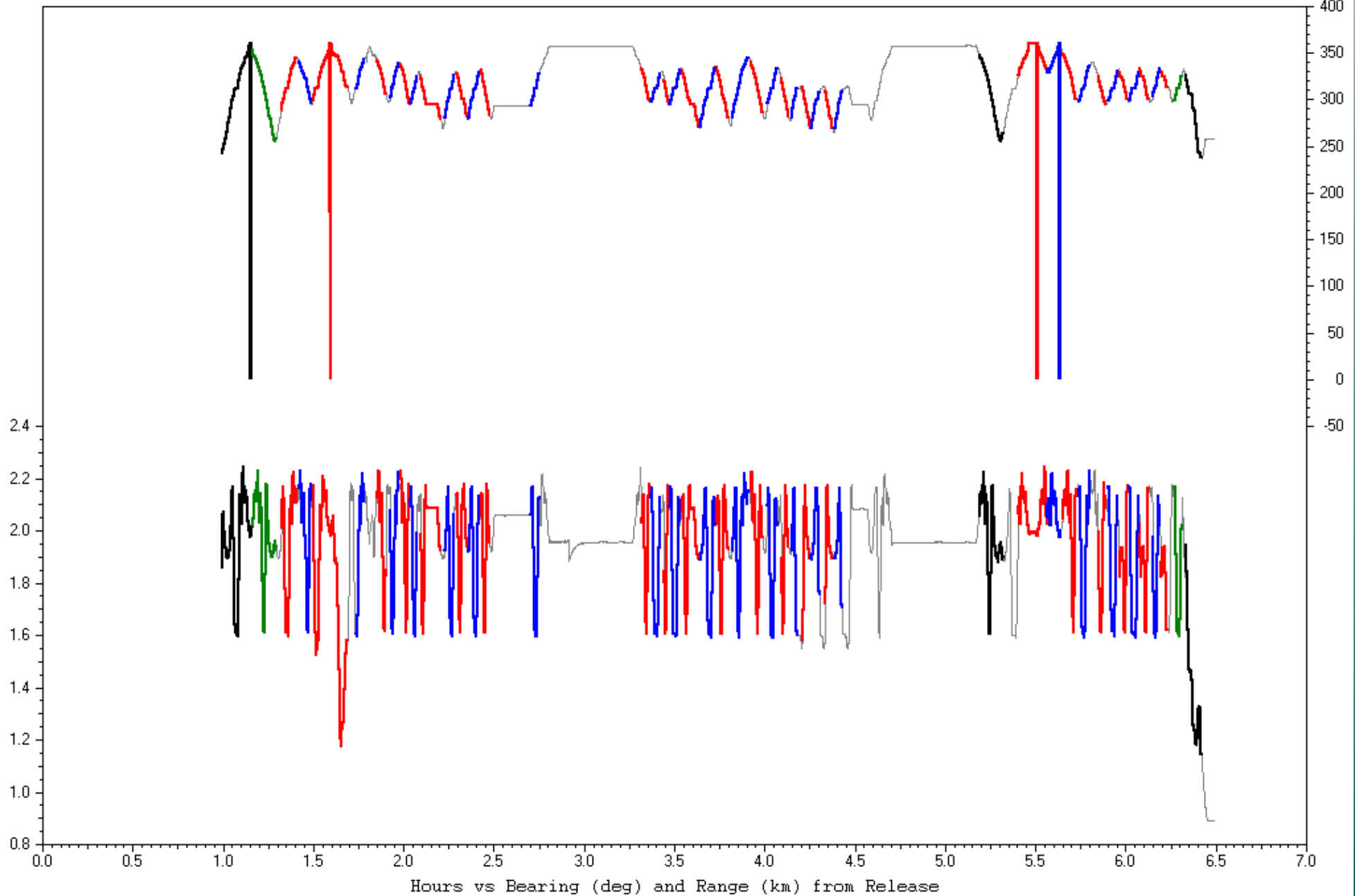


SF₆ Experiment Domain—1,2,4,6 km Arcs

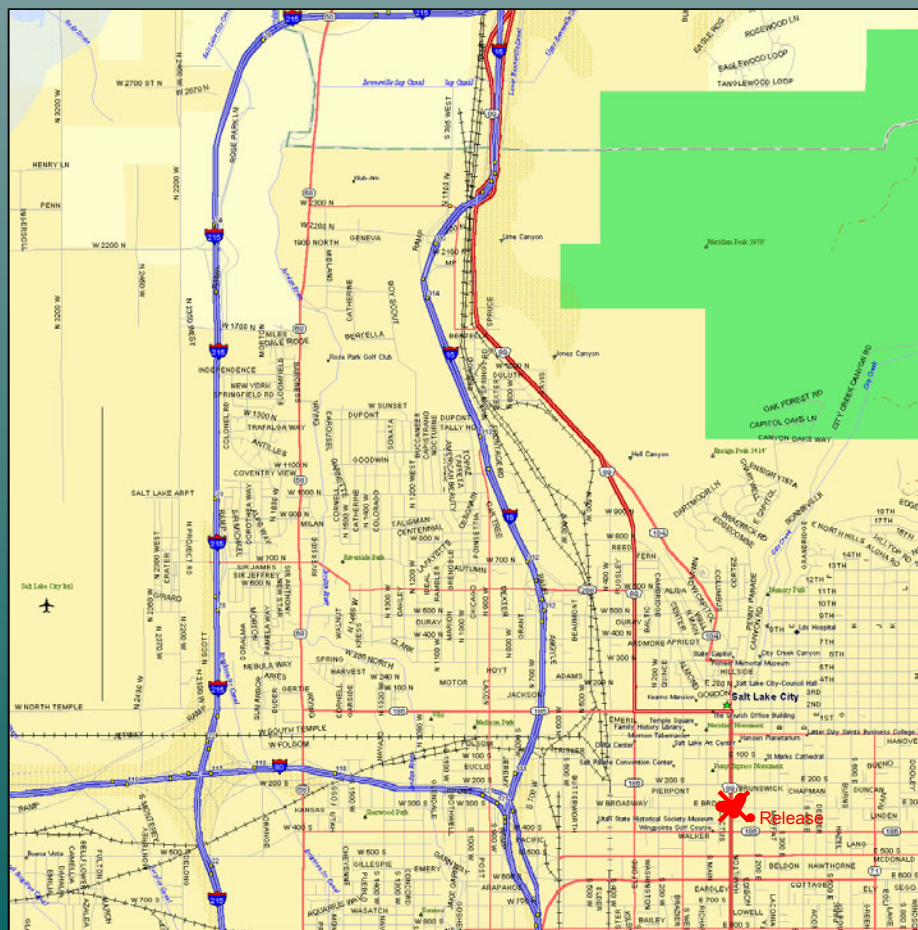
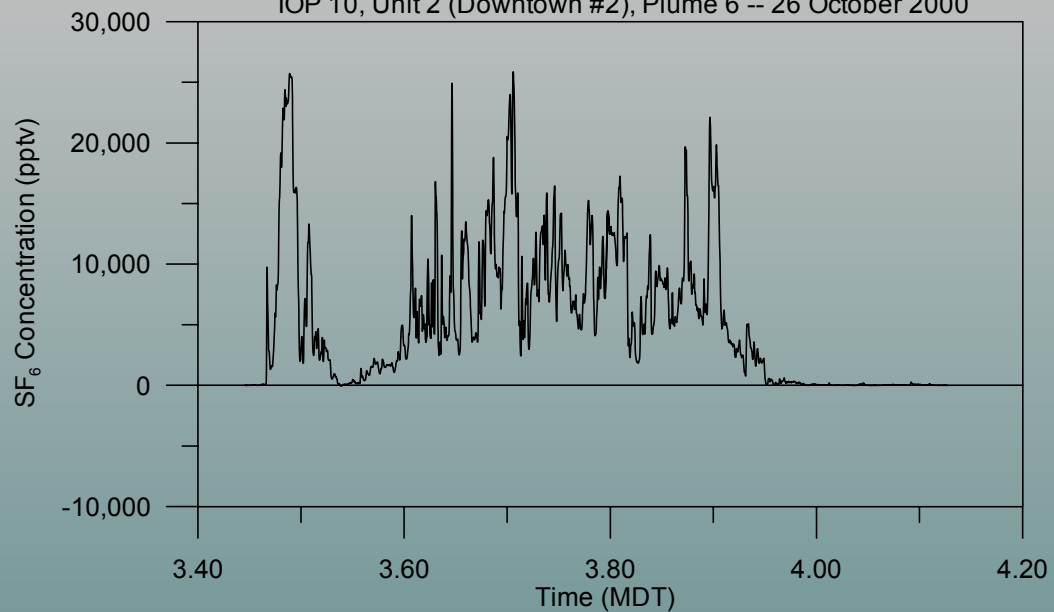


Bearing and Range Graphs

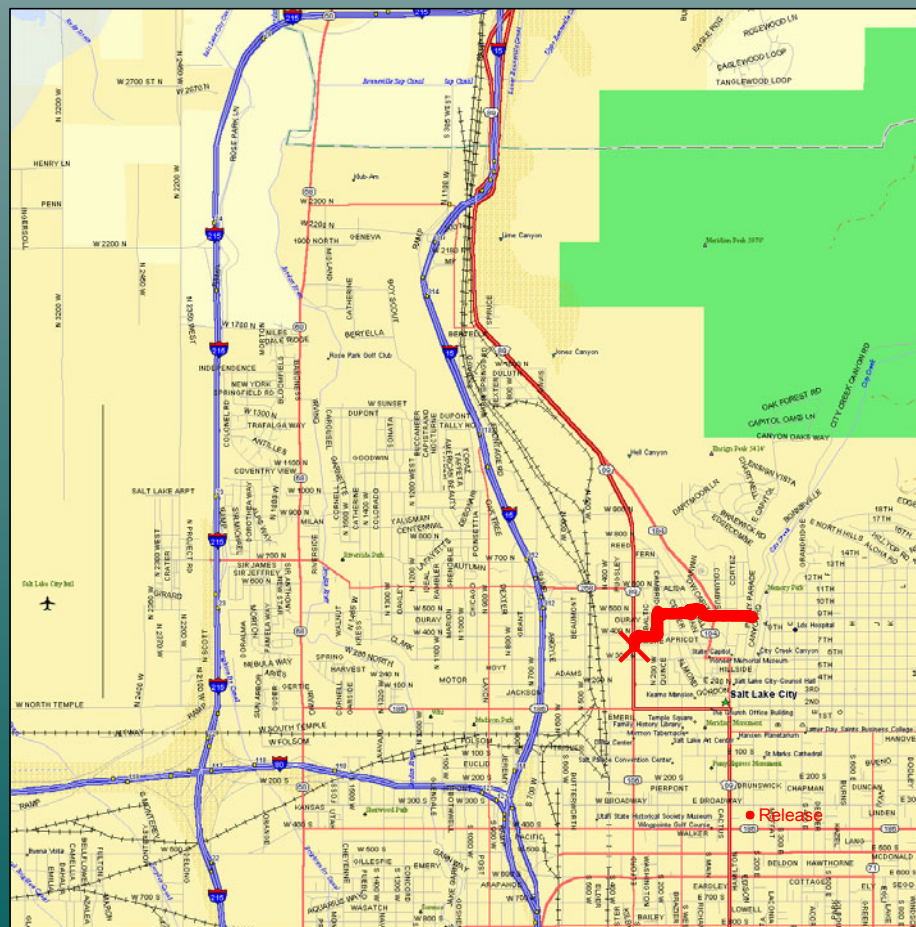
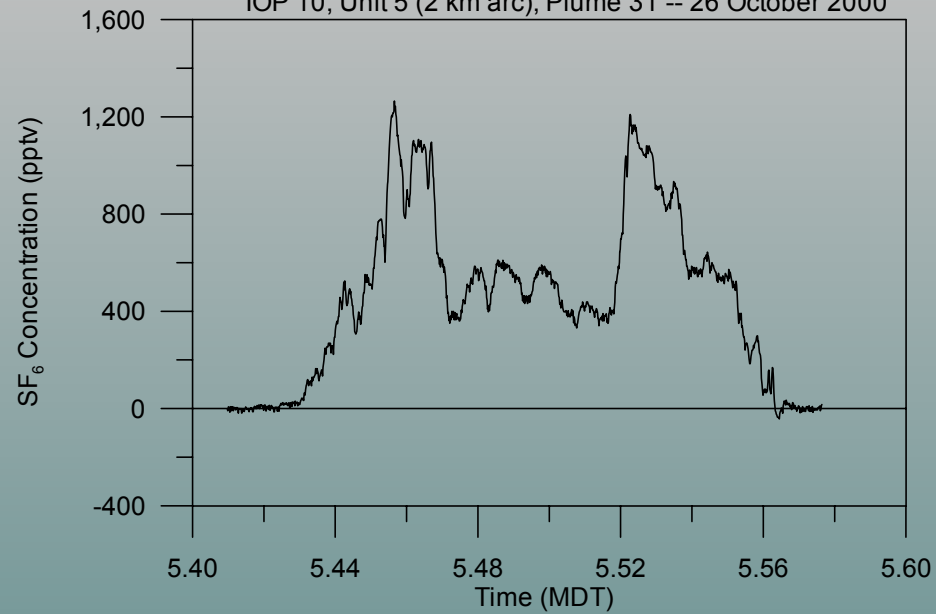
VTMX TGA Track Plot - IOP #10, Unit #5



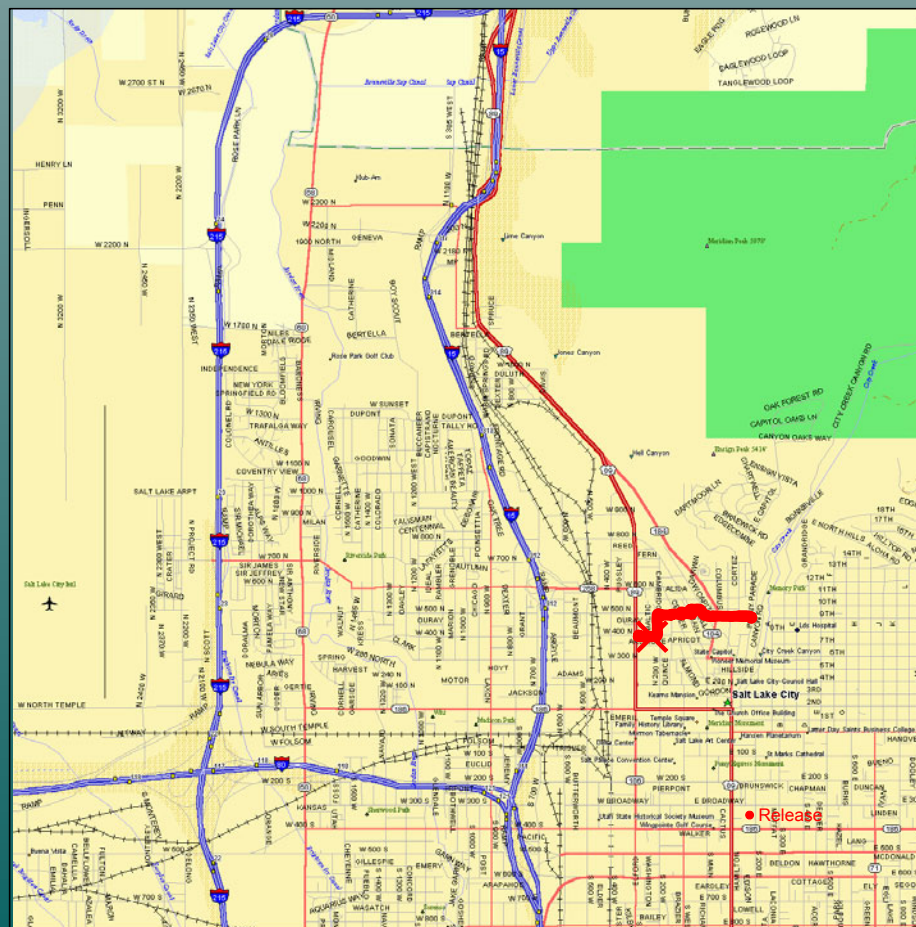
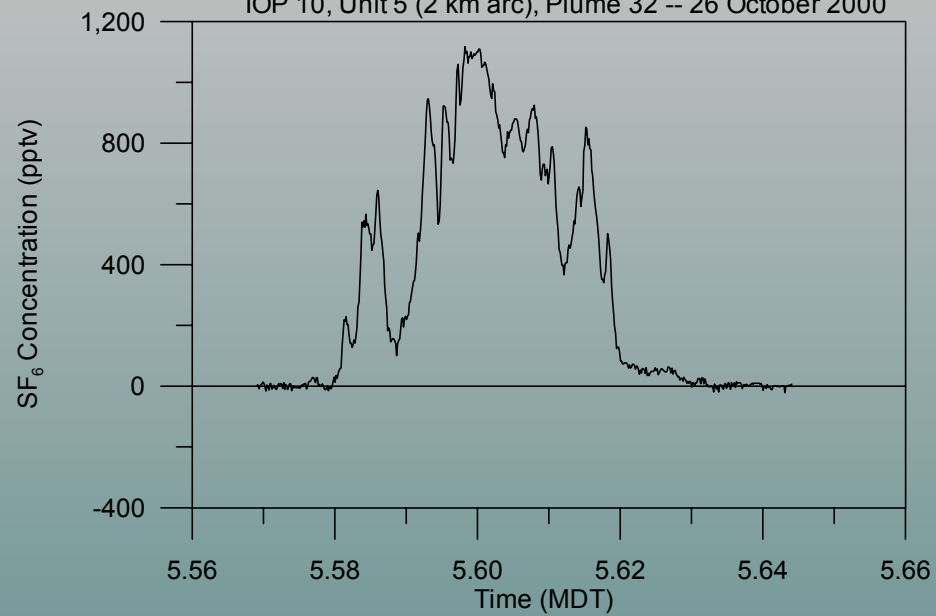
IOP 10, Unit 2 (Downtown #2), Plume 6 -- 26 October 2000



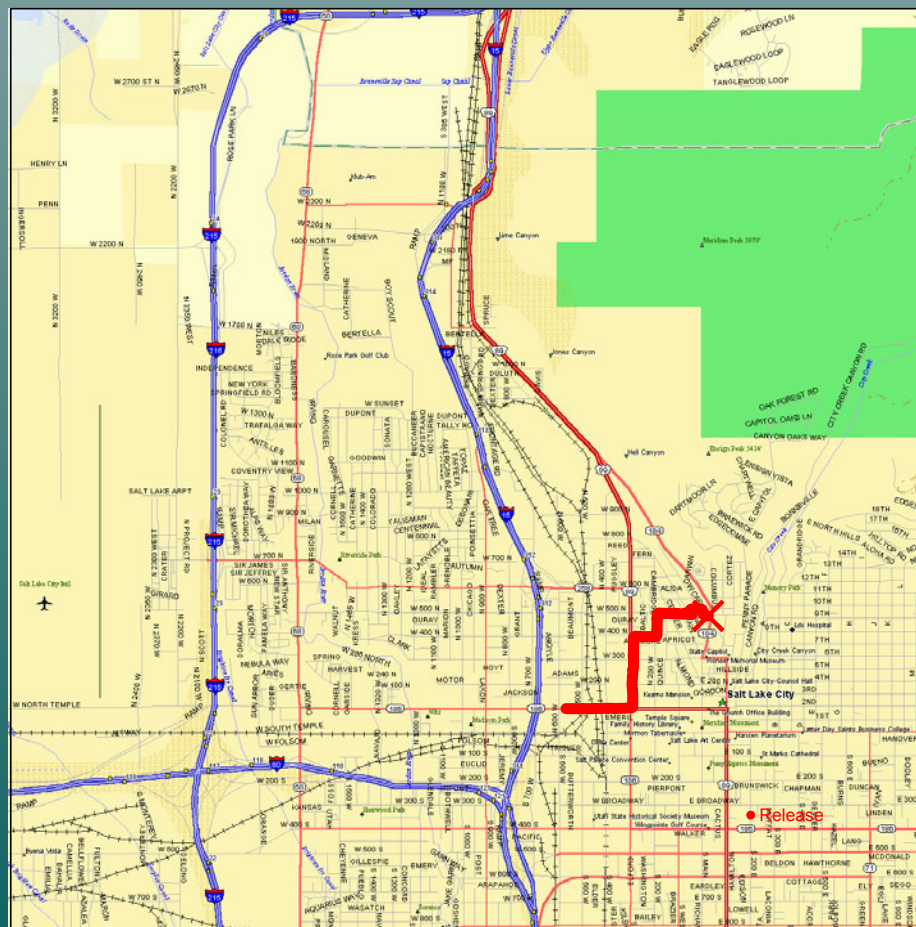
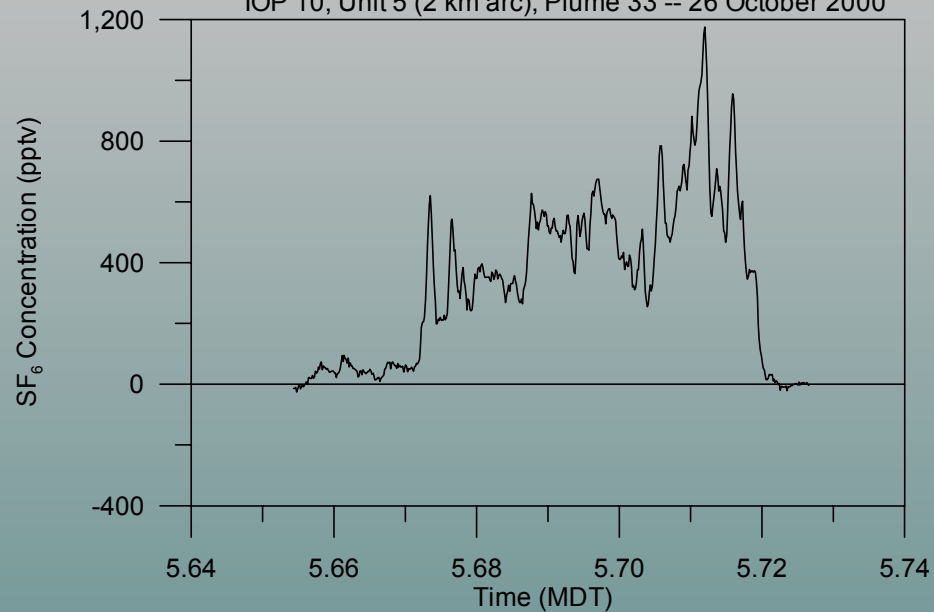
IOP 10, Unit 5 (2 km arc), Plume 31 -- 26 October 2000



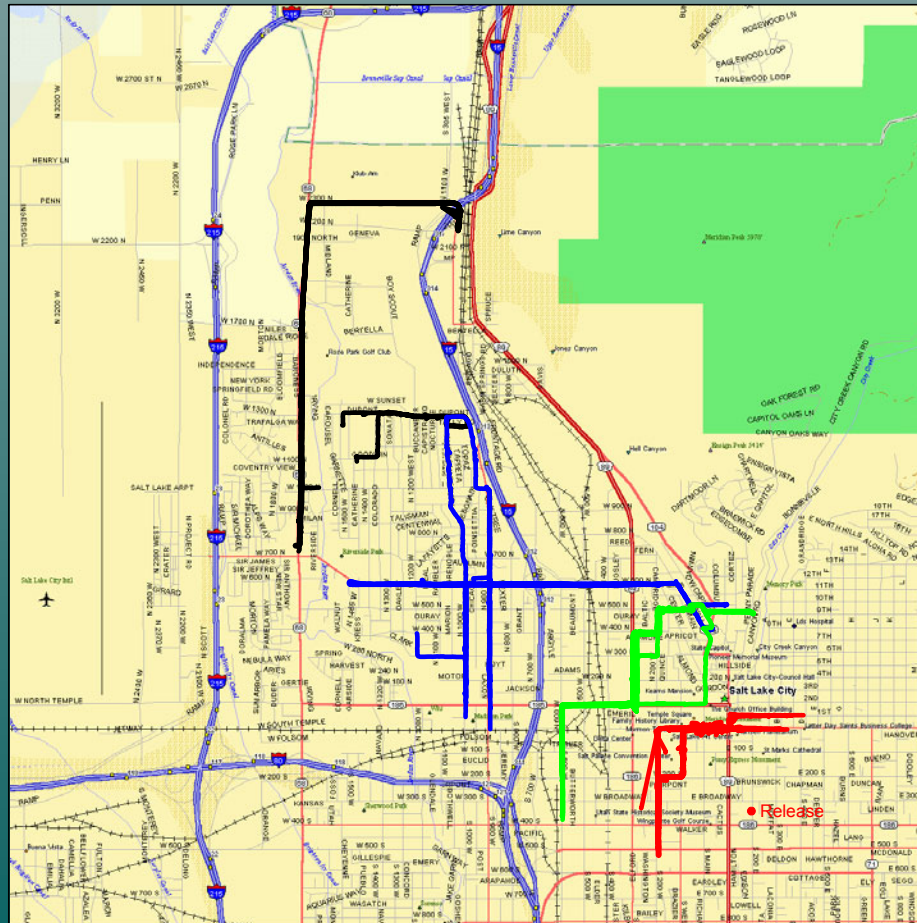
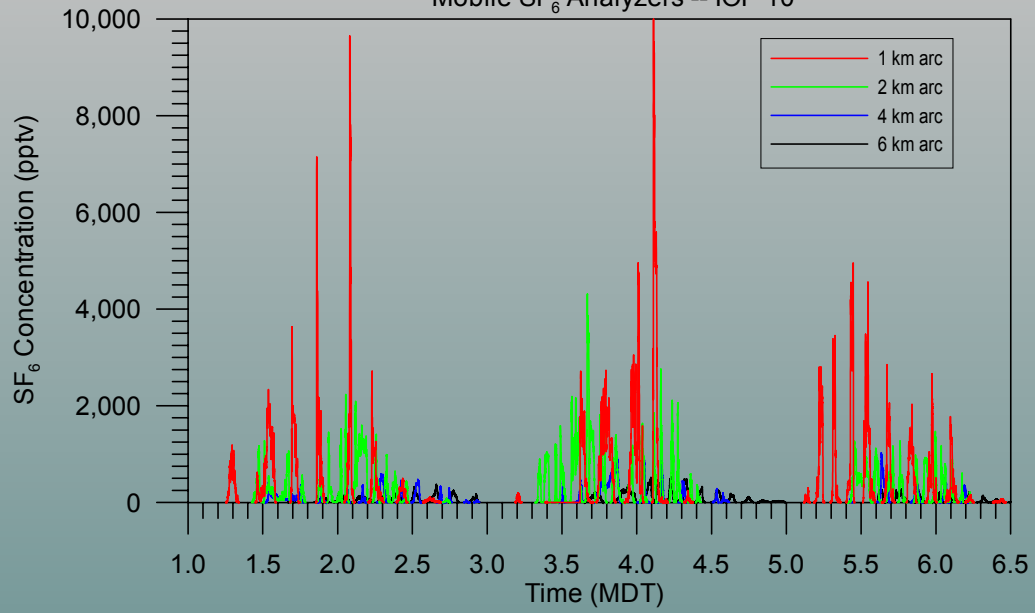
IOP 10, Unit 5 (2 km arc), Plume 32 -- 26 October 2000



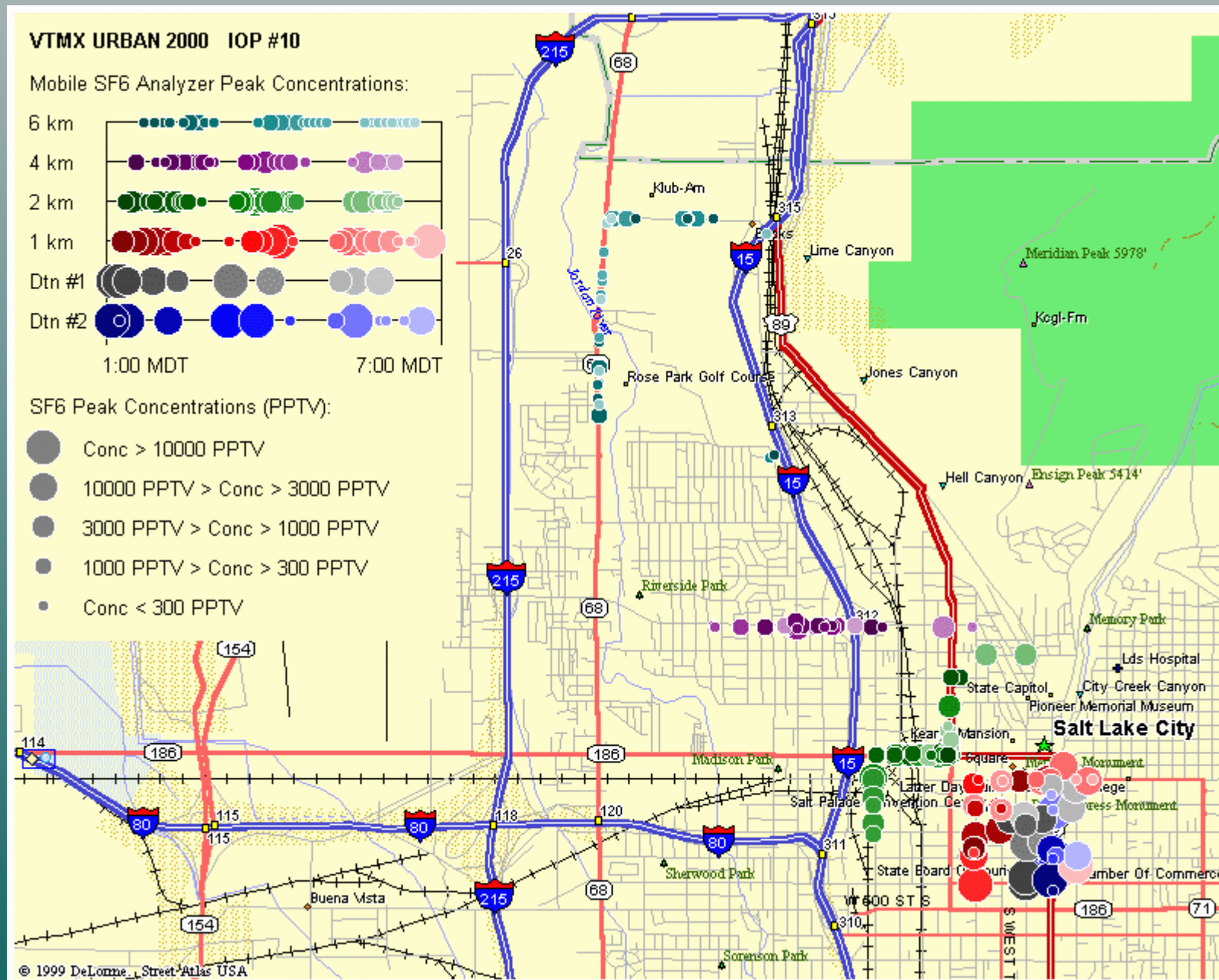
IOP 10, Unit 5 (2 km arc), Plume 33 -- 26 October 2000



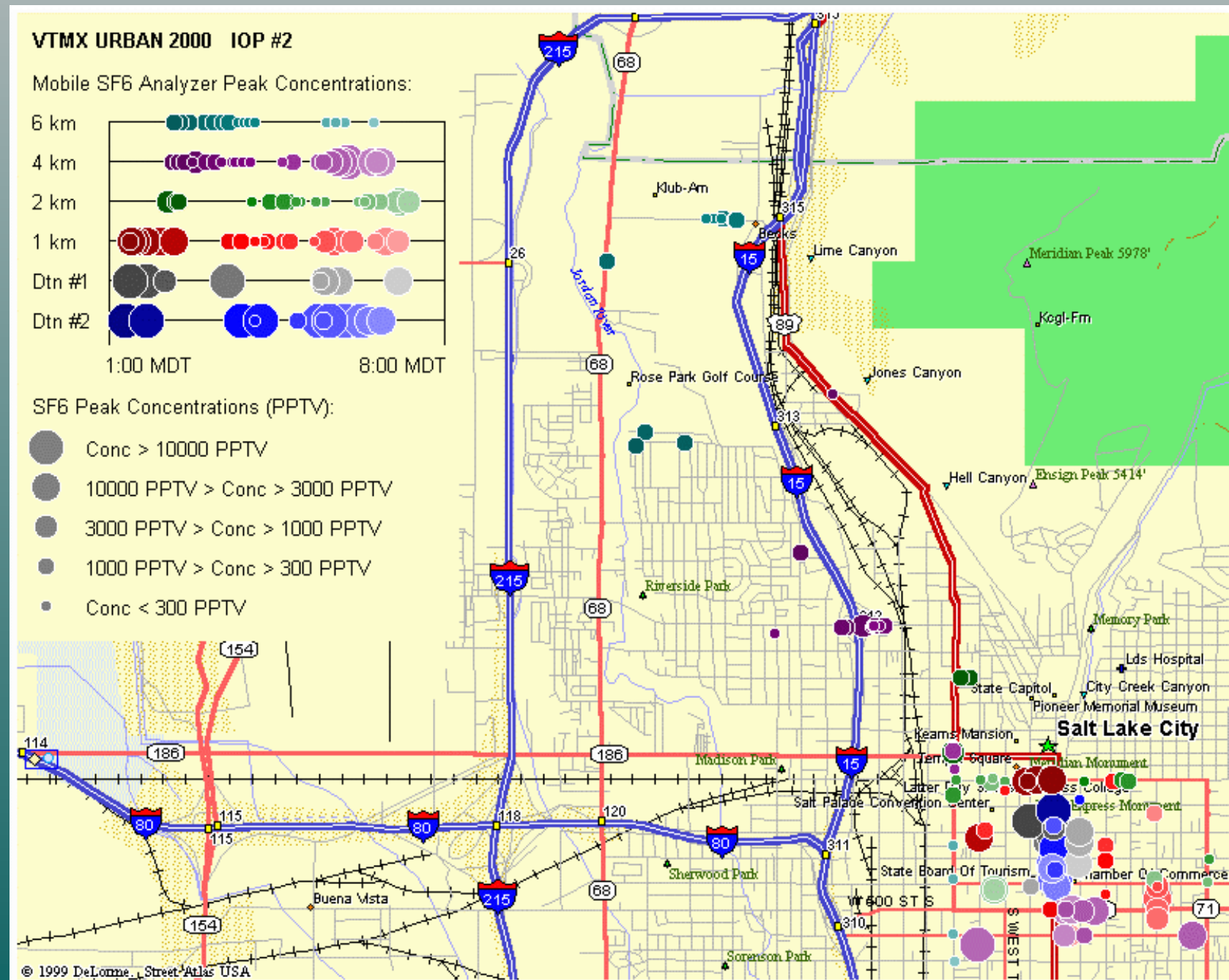
Mobile SF₆ Analyzers -- IOP 10



Real-time Analyzer Results – IOP 10



Real-time Analyzer Results – IOP 2



Summary

- 6 real-time analyzers deployed
 - 4 mobile
 - 2 quasi-stationary
- Considerable plume meander probably due to complex terrain
 - Stationary and mobile analyzers