

AQRP Monthly Technical Report

PROJECT TITLE	Characterization of Boundary-Layer Meteorology During DISCOVER-AQ Using Radar Wind Profiler and Balloon Sounding Measurements	PROJECT #	14-006
PROJECT PARTICIPANTS	Sonoma Technology, Inc., and Gary Morris (St. Edwards University)	DATE SUBMITTED	3/6/2015
REPORTING PERIOD	From: February 1, 2015 To: February 28, 2015	REPORT #	9

A Financial Status Report (FSR) and Invoice will be submitted separately from each of the Project Participants reflecting charges for this Reporting Period. I understand that the FSR and Invoice are due to the AQRP by the 15th of the month following the reporting period shown above.

Detailed Accomplishments by Task

Task 1: Characterize the Atmospheric Boundary Layer

- Documented analyses from characterization of atmospheric boundary layer during DISCOVER-AQ in draft report.

Task 2: Determine Representativeness of Meteorological Conditions

- Continued comparison of meteorological conditions on high ozone days during DISCOVER-AQ to high ozone days during the Tex-AQS II study period.
- Documented analyses in draft report.

Task 3: Derive and Deliver Continuous Mixing Heights

- Continued quality controlling and deriving mixing heights from University of Houston Coastal Center RWP.

Preliminary Analysis

Not applicable.

Data Collected this Period

Not applicable.

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

Not applicable.

Goals and Anticipated Issues for the Succeeding Reporting Period

During the month of March 2015, we will complete deriving continuous mixing heights from the Univ. of Houston Coastal Center RWP. Processing of the RWP data from this site has taken longer than anticipated due to data formatting issues. We will also continue to document our findings as part of the draft final report and complete the draft report for Task 1.

Detailed Analysis of the Progress of the Task Order to Date

We have completed analysis work for Task 1 of this project and are continuing with Task 2. We are documenting these analyses and findings in a final draft report. No major technical or data quality issues have arisen regarding the air quality and meteorological data that have been collected thus far, aside from five ozonesonde launches that experienced data loss and some data processing issues with profiler data from the Univ. of Houston Coastal Center. The budget for this Task Order remains on track.

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