

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	7/9/2014
REPORTING PERIOD	From: June 12, 2014 To: June 30, 2014	REPORT #	1

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

- Retrieved 1-hr and 8-hr ozone data from Houston-area ozone monitors during the DISCOVER-AQ study period
- Downloaded surface and upper-air weather plots for days during the DISCOVER-AQ study period

Task 2: Determine Representativeness of Meteorological Conditions

- No activities performed on this task

Task 3: Derive and Deliver Continuous Mixing Heights

- No activities performed on this task

Preliminary Analysis

No analysis has yet been performed as of the period covered by this report.

Data Collected

- Collected 1-hr and 8-hr ozone data from Houston-area ozone monitors during the DISCOVER-AQ study period.
- Downloaded surface and upper-air weather plots for days during the DISCOVER-AQ study period

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

None

Goals and Anticipated Issues for the Succeeding Reporting Period

During the month of July 2014, we plan to continue retrieving meteorological and air quality data needed to complete Tasks 1 and 2, and plan to begin deriving continuous mixing heights for Task 3.

Detailed Analysis of the Progress of the Task Order to Date

Only limited work was completed during this period as the Task Order was not effective until June 12, 2014, midway through this reporting period. The estimated completion dates for the draft final report (July 31, 2014) and final report (August 31, 2014) stated in the project work plan assumed a project start date of May 1, 2014. As such, we plan to accelerate work on this Task Order as much as possible, but the draft final report and final report will likely not be completed until after their original estimated completion dates. Otherwise, no technical issues have arisen regarding the air quality and meteorological data that have been collected thus far. The budget for this Task Order remains on track.

Submitted to AQRP by: Daniel M. Alrick

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