

AQRP Monthly Technical Report

PROJECT TITLE	Detecting events and seasonal trends in biomass burning plumes using black and brown carbon: (BC) ₂ El Paso	PROJECT #	19-031
PROJECT PARTICIPANTS	Rebecca J. Sheesley (Baylor) Sascha Usenko (Baylor) James Flynn (UH)	DATE SUBMITTED	Feb 8, 2019
REPORTING PERIOD	From: Jan. 1, 2019 To: Jan. 31, 2019	REPORT #	3

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

- Ran multiple experiments for TAP comparisons.
- Ran aethalometer to test for field readiness.
- Determined potential sources of differences between TAPs and reduced the discrepancy to 10- 15 % after multiple communications with Brechtel.
- Drafted a check-list for the student/individual who will be helping operate the instruments in El Paso.
- Drafted Standard Operating Procedures (SOPs) for aethalometer operation.
- Drafted an SOP for TAP filter change.
- UH did final checks on the nephelometer for field readiness.
- UH started the computer configuration for data capture during the campaign.
- The PIs conducted a site visit to El Paso Jan 31-Feb 1. At that time we met with the facilities director and with professors.

Preliminary Analysis

NA

Data Collected

NA

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

We received a quote for site upgrades by UTEP facilities and a timeline for completion (end of Feb.). If and when future issues arise at the site, we are establishing a good working relationship with folks at UTEP.

Goals and Anticipated Issues for the Succeeding Reporting Period

Testing of the full instrument payload in the Baylor trailer on Baylor campus. In addition, Baylor and UH will work on the final deployment configuration and schedule deployment to El Paso.

Detailed Analysis of the Progress of the Task Order to Date

The project is still in its initial stages.

Do you have any publications related to this project currently under development? If so, please provide a working title, and the journals you plan to submit to.

Yes No

Do you have any publications related to this project currently under review by a journal? If so, what is the working title and the journal name? Have you sent a copy of the article to your AQRP Project Manager and your TCEQ Liaison?

Yes No

Do you have any bibliographic publications related to this project that have been published? If so, please list the reference information. List all items for the lifetime of the project.

Yes No

Do you have any presentations related to this project currently under development? If so, please provide working title, and the conference you plan to present it (this does not include presentations for the AQRP Workshop).

Yes No

Do you have any presentations related to this project that have been published? If so, please list reference information. List all items for the lifetime of the project.

Yes No

Submitted to AQRP by

Principal Investigator