

AQRP Monthly Technical Report

PROJECT TITLE	Improving Estimates of Wind-Blown Dust from Natural and Agricultural Sources	PROJECT #	20-011
PROJECT PARTICIPANTS	Chris Emery, Tejas Shah, Uarporn Nopmongcol, Greg Yarwood (Ramboll)	DATE SUBMITTED	8/10/2020
REPORTING PERIOD	From: July 28, 2020 To: July 31, 2020	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 for reporting period

Task 1: Review Current CAMx WBDUST Estimates

Reviewed WBDUST program equations against published literature upon which it is based.

Task 2: Review Alternative Methods and Datasets

Collected several peer-reviewed journal articles describing wind-blown dust schemes employed in other models, and began detailed reviews of those papers.

Task 3: Update the WBDUST Model and Evaluate Impacts in CAMx MP

No activities during the reporting period.

Task 4: Project Reporting and Presentation

Set up project accounting and administration, prepared and submitted the project abstract and May-July quarterly progress report to AQRP on July 31.

Preliminary Analysis

None during the reporting period.

Data Collected

None collected during the reporting period.

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

None during the reporting period.

Goals and Anticipated Issues for the Succeeding Reporting Period

Plan and participate in a project kickoff call with AQRP and TCEQ. Begin review of current WBDUST emission estimates under Task 1. Continue to review peer-reviewed journal articles describing other wind-blown dust schemes, compare/contrast techniques to the current WBDUST model. No anticipated issues for the succeeding reporting period.

Detailed Analysis of the Progress of the Task Order to Date

This project initiated on July 28 with the execution of the AQRP Task Order. However, all tasks remain on schedule for completion according to our work plan. Anticipated activities in August shall begin progress toward the goals for the Research Project.

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 (ie: publications that cite the project) 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

Have any personnel changes occurred that were not listed in the original proposal? If so, please include a detailed description of the personnel change(s) below.

Yes No

Are any delays expected in the progress of the research? If so, please include a detailed description of the potential delay below.

Yes No

Describe any possible concerns/issues (technical or non-technical) that AQRP should be made aware of.

None.

**Are you anticipating using all the available funds allocated to this project by the end date?
If not, why and approximately what is the amount to be returned?**

Yes **No**

Submitted to AQRP by
Chris Emery, Ramboll