

AQRP Monthly Technical Report

PROJECT TITLE	New Satellite Tools to Evaluate Emission Inventories: Is a 3-D Model Necessary?	PROJECT #	20-020
PROJECT PARTICIPANTS	University of Wisconsin – Madison Ramboll	DATE SUBMITTED	8/31/2021
REPORTING PERIOD	From: August 1, 2021 To: August 31, 2021	REPORT #	14

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

During this reporting period, work was carried out on Task 5.

Task 5. Project Reporting and Presentations

The UW-Madison team, Ramboll, and Dr. Daniel Goldberg finished work on the draft Final Report, and presented the project presentation.

The UW-Madison team has completed archiving all project data, and has uploaded the updated WHIPS software to github. A link to the updated WHIPS software is available here: <https://nelson.wisc.edu/sage/data-and-models/software.php>

The UW-Madison team is continuing work on a publication, “*A comparison of methods for evaluating NO_x emissions with satellite data*” to be submitted to Environmental Manager in October 2021.

Dr. Daniel Goldberg is continuing work on a publication, “*Evaluating the NO_x emissions and ozone production sensitivities in Texas using TROPOMI NO₂ and HCHO*,” to be submitted to Atmospheric Chemistry and Physics in October 2021.

Preliminary Analysis

None.

Data Collected

None.

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

None.

Goals and Anticipated Issues for the Succeeding Reporting Period

None.

Detailed Analysis of the Progress of the Task Order to Date

None.

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

Two manuscripts are being prepared:

- (1) working title, “*Evaluating the NO_x emissions and ozone production sensitivities in Texas using TROPOMI NO₂ and HCHO*,” planned submission to Atmospheric Chemistry and Physics
- (2) working title, “A comparison of methods for evaluating NO_x emissions with satellite data”, planned October 2021 submission to Environmental Manager

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 Tracey Holloway

Principal Investigator Tracey Holloway