

AQRP Monthly Technical Report

PROJECT TITLE	Galveston Offshore Ozone Observations (GO3)	PROJECT #	20-004
PROJECT PARTICIPANTS	James Flynn (UH) Yuxuan Wang (UH) Paul Walter (St. Edward's University) Gary Morris (St. Edward's University)	DATE SUBMITTED	4/9/2021
REPORTING PERIOD	From: March 1, 2021 To: March 31, 2021	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 14th of the month following the reporting period shown above.

Detailed Accomplishments by Task for reporting period

- Continue testing first sampling packages.
- Move the two sampling packages a top of Moody Tower for field testing.
- Receive Vaisala license for sampling package computer.
- Contacted the FAA about their desired notification protocol for free-release balloon launches from Galveston Bay. Protocols have been approve for our upcoming sampling period.
- Contact vendor for status updates on receiving GSP photocells for measurement systems.
- Visit with shrimp boat operator to determine the best method for attaching the measurement systems.

Data Collected

No additional sampling data was collected during this period.

Preliminary Analysis

No additional analysis was performed

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

Delivery of the photocells have been delayed due to winter weather in Colorado as well as COVID impacts on material providers. We have been in regular contact with the manufacturer and receiving updated delivery estimates.

Goals and Anticipated Issues for the Succeeding Reporting Period

- Install and test the GSPs with the sampling systems.
- Place order for pontoon boat CL-51
- Integrate CL-51 into sampling package for shrimp boat (Galveston Bay)
- Continue to prepare for deployment of sampling packages to be ready in April, pending receipt and testing of the GSP photocells.
- Perform initial testing with the pontoon boat in Galveston Bay under the guidance of the boat's primary operator. Scheduled for 4/19 provided the weather is safe.

Detailed Analysis of the Progress of the Task Order to Date

The project is moving forward quite well with respect to the Task Order issue date. With the request from AQRP and TCEQ to delay deployment into the 2021 O₃ season the timeline has shifted which will allow more time for preparation and coordination.

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

The AQRP and TCEQ have requested the deployment to be delayed into CY2021.

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

Yes No

**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

Acronyms/Abbreviations:

O₃: Ozone

Submitted to AQRP by

James Flynn