

# AQRP Monthly Technical Report

<b>PROJECT TITLE</b>	Ozone Measurements and Platform Emission Factors in the Gulf of Mexico	<b>PROJECT #</b>	20-009
<b>PROJECT PARTICIPANTS</b>	Aerodyne Research, Inc.	<b>DATE SUBMITTED</b>	12/10/2020
<b>REPORTING PERIOD</b>	<b>From:</b> November 1, 2020 <b>To:</b> November 30, 2020	<b>REPORT #</b>	6

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 15<sup>th</sup> of the month following the reporting period shown above.

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## Detailed Accomplishments by Task for reporting period

We have continued communication with vessel and platform operators this past month related to logistical concerns.

Significant logistical problems have cropped up related to the safety of transferring equipment and personnel to the platform by boat.

Pandemic-related safety issues also remain and are discussed in the following section.

## Preliminary Analysis

There is no preliminary analysis to report.

## Data Collected

There is no data collected.

## Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

Finding an offshore platform is no longer the limiting factor for the success of this campaign.

However, there is increasing uncertainty about whether this project can be accomplished before the August 31, 2021 project deadline due to two main issues.

The first issue is related to COVID-19 safety, and has been raised in prior reports. In the past month, we have reviewed mission procedures put in place NOAA's aircraft operation division, which mandates a 7 day or longer shelter-in-place with symptom screening for all personnel working aircraft missions, along with several other policies. Additionally, Aerodyne Research, Inc. has come up with a separate travel policy during the pandemic, which also includes

quarantine and testing. Thus, we continue to pursue some combination of testing and quarantining prior to boarding the vessel. Close quarters on the vessel (including bunk rooms) will make alternative risk mitigation steps ineffective. We will have an answer this coming month as to whether the vessel operators are able to complete a pre-mission quarantine and test, and whether the current UN project budget can support the extra incurred costs.

The second logistical issue is related to equipment and personnel transfer to the offshore platform. We have learned that docking at the platform is a difficult endeavor and can only be attempted under a very narrow set of meteorological conditions (calm seas). Supply vessels will not attempt a resupply unless the weather forecast is favorable. Since the offshore platform in question does not yet have accommodations, the tracer release technician would need to be evacuated at the end of each release day. This presents a very real barrier to doing the tracer-release experiment that is at the center of the UN-funded campaign. We will bring up this limitation with the UN sponsor and determine whether any solutions are feasible, for example, bringing in a 3<sup>rd</sup> project participant able to help with transport to/from the platform via helicopter and/or providing temporary overnight accommodations on the platform.

### **Goals and Anticipated Issues for the Succeeding Reporting Period**

In the next reporting period, we will continue work on solving the two central logistical issues of the UN-funded project. We will propose a meeting with the AQRP project manager to discuss the project progress.

### **Detailed Analysis of the Progress of the Task Order to Date**

Progress has suffered some setbacks due to unforeseen logistical constraints. Progress (and spending) on this specific AQRP-funded sub-project to measure ozone offshore will still be focused on the weeks immediately surrounding the measurement campaign.

**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.**

**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

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Submitted to AQRP by  
Tara Yacovitch  
Principal Scientist  
Aerodyne Research, Inc.