CAPCOG
Monthly Project Status Report

Contract: Operation of CAMS 1605 2016 – 2017 & Ozonesonde Project 2016 – 2017

Grantee: St. Edward's University

Date Submitted: 5/9/17

Report for the **Monthly** period: April 2017

Starting Date 4/1/17 Ending Date 4/30/17

Section I. Accomplishments (*Please provide a bulleted list of project accomplishments as well as a description of their importance to the project.)* **Indicate which part of the Grant Activities as defined in the grant agreement, the above accomplishments are related to:**

- Held twice weekly team meeting with student workers and with Mark Spychala, research assistant, Dr. Paul Walter, project manager, and Dr. Gary Morris, PI.
- Monitored data quality from TECO 49i ozone instrument on campus.
- Servicing of CAMS 1605 as needed.
- Dios Dado performed maintenance and a 5-point calibration on 19 April.
- Flight AT019 launched on Thursday, 6 April.
- Flight AT020 launched on Friday, 7 April.
- Flight AT021 launched on Sunday, 23 April.
- Flight AT022 launched on Monday, 24 April.

Section II: Problems/Solutions

Problem(s) Identified (*Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)*	1. CAMS 1605 ozone instrument (TECO 49i) has low intensity of lamp B. There is a buildup of black residue in the absorption line. 2. CAMS 1605 ozone instrument (TECO 49i) has high bench temperature (as high as 42.7C, where 40C is the specs cutoff). The fan no longer works. 3. Website undergoing transition. Data from recent flights are not yet posted.
Proposed Solution(s) *(Please report any possible solution(s) to the problem(s) that were considered/encountered)*	1. Carry out service on the ozone instrument to have lamp B back up to normal intensity. 2. Carry out service on the ozone instrument to have temp move back to normal range. The fan no longer works. 3. Complete transition of website.
Action(s) Conducted and Results *(Please describe the action(s) taken to resolve the problem(s) and its effect)*	1. Dios Dado performed maintenance on 19 April to clean mirrors and absorption lines of the ozone instrument. The lamp B intensity is back in the normal range, though Jim McCraw did note some concerns about how well the sensor is working. A 5-point calibration was also performed. 2. Dios Dado replaced the fan during the same visit. The temperature is back to the normal range. 3. Website update to be completed in a future month.

Section III. **Goals and Issues for Succeeding Period**: (*Please provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen)*

- Continue to maintain CAMS 1605.
- Launch as requested.
- Complete transition of website that hosts flight data: http://ir.stedwards.edu/natural-sciences/ozone
- Process and post data to website: http://ir.stedwards.edu/natural-sciences/ozone

NOTE*: Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*

_____ *Date: 9 May 2017*

Authorized Project Representative's Signature