

# Monthly Technical Report

*(Due to AQRP Project Manager on the 8<sup>th</sup> day of the month following the last day of the reporting period.)*

<b>PROJECT TITLE</b>	Soil Moisture Characterization for Biogenic Emissions Modeling in Texas	<b>PROJECT #</b>	14-008
<b>PROJECT PARTICIPANTS</b> (Enter all institutions with Task Orders for this Project)	The University of Texas at Austin	<b>DATE SUBMITTED</b>	5/8/15
<b>REPORTING PERIOD</b>	<b>From:</b> 4/1/2015 <b>To:</b> 4/30/2015	<b>REPORT #</b>	11

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** *(Include all Task actions conducted during the reporting month.)*

During April 2015, the team continued development of the draft final report. The report consists of the following sections:

- 1.) Introduction
- 2.) Overview of soil moisture databases
- 3.) In-situ soil moisture monitoring
- 4.) Comparison of NLDAS-2 and in-situ soil moisture
- 5.) Comparison of in-situ and NLDAS-2 soil moisture at eastern Texas locations
- 6.) Intercomparison of NLDAS-2 simulated soil moisture datasets
- 7.) MEGAN simulations
- 8.) Discussion
- 9.) Recommendations for future work

## **Data Collected** *(Include raw and refine data.)*

No additional data were collected for this project during April 2015.

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

A quality assurance review of the wilting point data indicated an inaccuracy in the VIC values used in the initial MEGAN simulations; the VIC wilting points provided via the NLDAS-2 database were corrected by multiplying by soil porosity (confirmed with users of VIC data) and the MEGAN simulations were re-run.

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

Work will continue on the development of the draft final report.

**Detailed Analysis of the Progress of the Task Order to Date** *(Discuss the Task Order schedule, progress being made toward goals of the Work Plan, explanation for any delays in completing tasks and/or project goals. Provide justification for any milestones completed more than one (1) month later than projected.)*  
Ongoing.

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Submitted to AQRP by:

Principal Investigator: Elena McDonald-Buller

*(Printed or Typed)*