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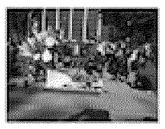
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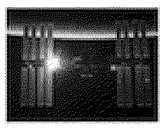
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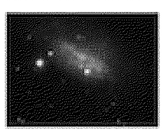
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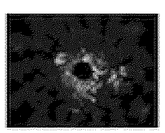
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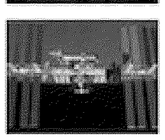
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NASA Invites Media to

Nov. 10, 2016

UAS plume sampling in OK & VA.

NASA, EPA and Army Conduct Emissions Sampling using UAS.

Radford, Virginia & McAlester, Oklahoma

Between September 26 and October 28, 2016, **NASA's** Laboratory for Advanced Sensing (Ames Research Center, Moffett Field, CA) ventured out to **Radford, Virginia** and **McAlester Oklahoma** to conduct airborne field sampling of open burns at two US Army ammunition plants. The project was commissioned by the US Army Joint Munitions Command (JMC), and was a highly collaborative effort between various federal agencies, including NASA Earth Science, the **Environmental Protection Agency's Office of Research and Development** (EPA/ORD) and **US Army**.

The group aimed to provide JMC with more accurate and quantitative measurements on emissions from open burns for munitions demilitarization. Whereas previous measurements were collected via tethered aerostat, the group utilized a DJI Matrice 600 multirotor unmanned aircraft equipped with EPA/ORD lightweight gas sensors to preform precise positioning within plumes. A few photos from this field campaign are shown below.

This project was covered by a number of local news networks near Radford, Virginia. A few articles and photos highlighting this field campaign can be found below.

WSLS10: Drones testing air quality over open burns at Radford Arsenal

The Roanoke Times: Radford arsenal uses drone to sample smoke from controversial burn

WDBJ7 News: NASA, University of Dayton uses drone to test air quality at Radford Arsenal

For more information about this project and others collaborative efforts by NASA's Laboratory for Advanced Sensing, please visit our lab webpage at www.nasa.gov/ames/las.