

NOAA Atmospheric Chemistry, Carbon Cycle, and Climate (AC4) FY14 funded projects; Project period: August 1, 2014 - July 31, 2017

Projects awarded from AC4's 2014 competition

	Investigators	Project title	Institution	Project amount
1	Alvarado, Matt; Cady-Pereira, Karen; Henze, Daven	Inorganic aerosol precursor emissions during SENEX: A modeling analysis constrained by aircraft, satellite, and surface data	Atmospheric & Environmental Research, Inc.; University of Colorado	\$392,884
2	Farmer, Delphine	Observational constraints on the mechanisms that control size- and chemistry-resolved aerosol fluxes over a Colorado forest	Colorado State University	\$445,205
3	Fiore, Arlene; Horowitz, Larry	Evaluating how dry deposition influences eastern U.S. ozone, aerosols, and precursors: Mean contributions, uncertainties, and spatio-temporal variability from weather, regional climate and land use	Columbia University; NOAA/GFDL	\$579,655
4	Fischer, Emily; Farmer, Delphine	Following Emissions from Non-Traditional Oil and Gas Development Through their Impact on Tropospheric Ozone	Colorado State University	\$486,219
5	Heald, Colette; Kroll, Jesse	Deposition of atmospheric organic carbon: New constraints on reactive carbon budget	Massachusetts Institute of Technology	\$571,095
6	Henze, Daven; Michelsen, Hope, Trainer, Michael	Source attribution of greenhouse gases in the Southeast at the interface of biogenic and anthropogenic emissions: multi-scale inverse modeling and uncertainty quantification	University of Colorado; Sandia National Laboratories; NOAA/ESRL/CSD	\$580,731
7	Kort, Eric; Sweeney, Colm	Basin-wide top-down estimates for CH4 emissions from oil and gas extraction using aircraft observations	University of Michigan; University of Colorado	\$593,242
8	Lin, John	The Uintah Basin Greenhouse Gas Study: Understanding emissions of CO2 and CH4 from oil and gas fields	University of Utah	\$599,518
9	Mauzerall, Denise	Constraining methane leakage from abandoned oil and gas wells	Princeton University	\$592,220
10	Petron, Gabrielle	Ground-based measurements to study fossil fuels production operations emissions of methane and non-methane hydrocarbons and their atmospheric impacts	University of Colorado	\$568,327
11	Pratt, Kerri; Sheesley, Rebecca	Assessment of Atmospheric Aerosols Resulting from Oil and Gas Extraction Activities near the North Slope of Alaska	University of Michigan; Baylor University	\$574,548

12	Robinson, Allen	Measurement of Methane Emissions and Leakage from Natural Gas Extraction and Processing Facilities in Appalachia, the Rockies, and the Gulf Coast	Carnegie Mellon University	\$600,000
13	Zondlo, Mark	Distribution of fugitive methane emissions in the Marcellus Shale	Princeton University	\$598,451

Projects awarded from 2014 NASA/ROSES Interagency Call for proposals

	Investigators	Project title	Institution	Project amount
1	Hutyra, Lucy; Nehrkorn, Thomas; Wofsy, Steven	Quantifying Carbon Signatures Across Urban-to-Rural Gradients: Advancing the Capacity for Monitoring, Reporting, and Verification Through Observations, Models, and Remote Sensing	Boston University; Atmospheric & Environmental Research, Inc.; Harvard	\$816,495
2	Lehman, Scott; Miller, John (lead PI Riley Duren, JPL)	Megacities Carbon Project: Assessing the Impact of Policy and Management Decisions on the Los Angeles Urban Dome of CO2 and CH4	University of Colorado	\$536,122
3	Lin, John; Pataki, Diane	Predicting CO2 Emissions Associated with Urban Development in the Western U.S.	University of Utah	\$848,181