

Four Corners Public Science Forum on Methane

April 17, 2015, 9 am – Noon

San Juan College 4601 College Boulevard, Farmington, NM 87402

Room 7103 Computer Sciences Building

Purpose: To provide the public with information about scientific research already conducted in the basin and on-going research measurements. What has been learned and what are on-going studies investigating?

9:00 am – 9:15 am	Introductions and agenda	All
9:15 am – 9:45 am	Methane Hot Spot in the Four Corners Global satellite methane retrievals have shown a distinctive high methane atmospheric signal over the San Juan Basin. The satellite data and other supportive ground-based measurements will be summarized and provide a context to the on-going research campaign. Q&A	Eric Kort, University of Michigan
9:45 am – 10:15 am	Current Aircraft Campaign Five different aircraft will be conducting atmospheric measurements over the San Juan Basin over the month of April 2015 to investigate sources of methane and other gases in the region and to intercompare different source quantification measurement-based methods. Q&A	Colm Sweeney, NOAA
10:15 am – 10:45 am	Other Aerial Surveys Satellite retrievals from space will be summarized showing the Four Corners in the global perspective. Two NASA aircraft will be deployed in the 4-Corners area to map the methane distribution with a much finer resolution than possible from space (about 1m ²). An overview of airborne methane imaging focusing on how it can help detect sources in the Four Corners area will be provided. Q&A	Christian Frankenberg, NASA
10:45 am – 11:15 am	Current Ground Campaign Several instrumented vehicles will survey the region from public roads in the San Juan Basin over the month of April 2015 to map high methane plumes and monitor their persistence. The ground teams will also support the aircraft teams in attributing high signals observed from the airplanes to actual processes. Q&A	Gaby Petron, NOAA

11:15 am – 11:45 am **Bottom-up Emissions Inventory plans for the greater San Juan Basin in New Mexico and Colorado**

Tom Moore,
WESTAR/WRAP

Well-documented and comprehensive regulatory-grade inventories of upstream oil and gas (exploration and production) emissions, including methane, are prepared through an integrated analysis of: (1) permitted emissions from state and federal databases, (2) well-drilling and production information from a high-quality commercial dataset, and (3) operator and producer surveys.

Q&A

11:45 am – Noon **Discuss possibility of forming technical work group to further advise research and next steps**

All

A table for sharing your materials will be provided, so please feel free to bring air quality related brochures, papers, etc.!

The NOAA and University of Colorado INSTAAR monitoring vans will be available for viewing after the meeting and we may be able to view a survey aircraft flyover.

