

## INTRODUCTION

Since its inception in 1992, the ARM Climate Research Facility Southern Great Plains (SGP) Site has provided valuable data via an array of complex, continuously operating surface-based instruments, which are carefully attended to by Site Operations staff on a day-by-day basis. This is especially important during field campaigns. But, this is only one aspect of the SGP Operations mission; the other is being directly involved in the support of field campaigns.

Since 1992, the SGP has hosted over 200 campaigns. Once SGP is notified of an approved campaign, SGP Operations works with the Principal Investigator (PI) to gather information to prepare for the upcoming campaign. Every department at the SGP is involved: safety, shipping and receiving, computer systems, facilities engineering, instrument maintenance, and administration support. A key tool used to gather all the information necessary from the PI is the Instrument Support Request (ISR). PI's are asked to submit this form, which provides a checklist of all aspects of logistical and safety requirements for each guest instrument and computers to be brought on site. It also identifies the required SGP support effort as well as expendables and other contracting needs.

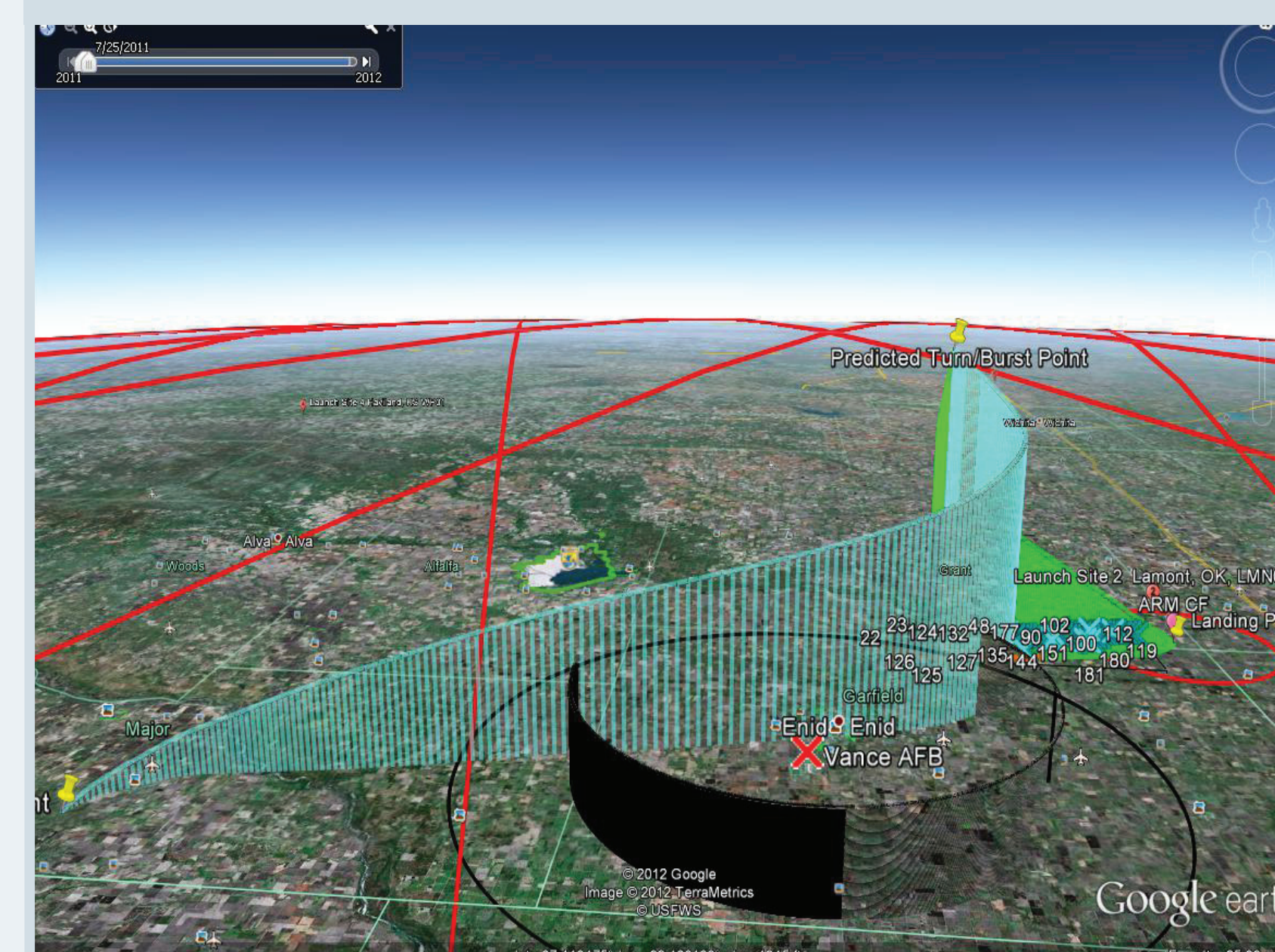
The ISR promotes a continuous dialog with the PI and field campaign participants in the early stages of planning that sets expectations so that investigators will find everything they need in place on the day they arrive. This front-end activity is critical to the success of all field campaigns. Presented are the 2012 field campaigns being conducted at the SGP, which are a good representation of the diversity of atmospheric research conducted at the SGP Site.

## LIST OF 2012 CAMPAIGNS

- Atmospheric Line of Site Experiment
- Role of Surface Energy Fluxes for Wind Energy
- Lower Atmospheric Boundary Facility Experiment
- ARM Radiosondes for NPOESS
- Deep Convective Clouds Chemistry
- Cabonyl Sulfide for Tracing Carbon Fluxes
- AOS Validation of Instrumentation Study
- Full-column Greenhouse Gas Sampling
- Precision Gas Sampling Validation
- Orbiting Carbon Observatory

## 2012 FIELD CAMPAIGNS

Balloon Trajectory for Full Column Greenhouses gas sampling



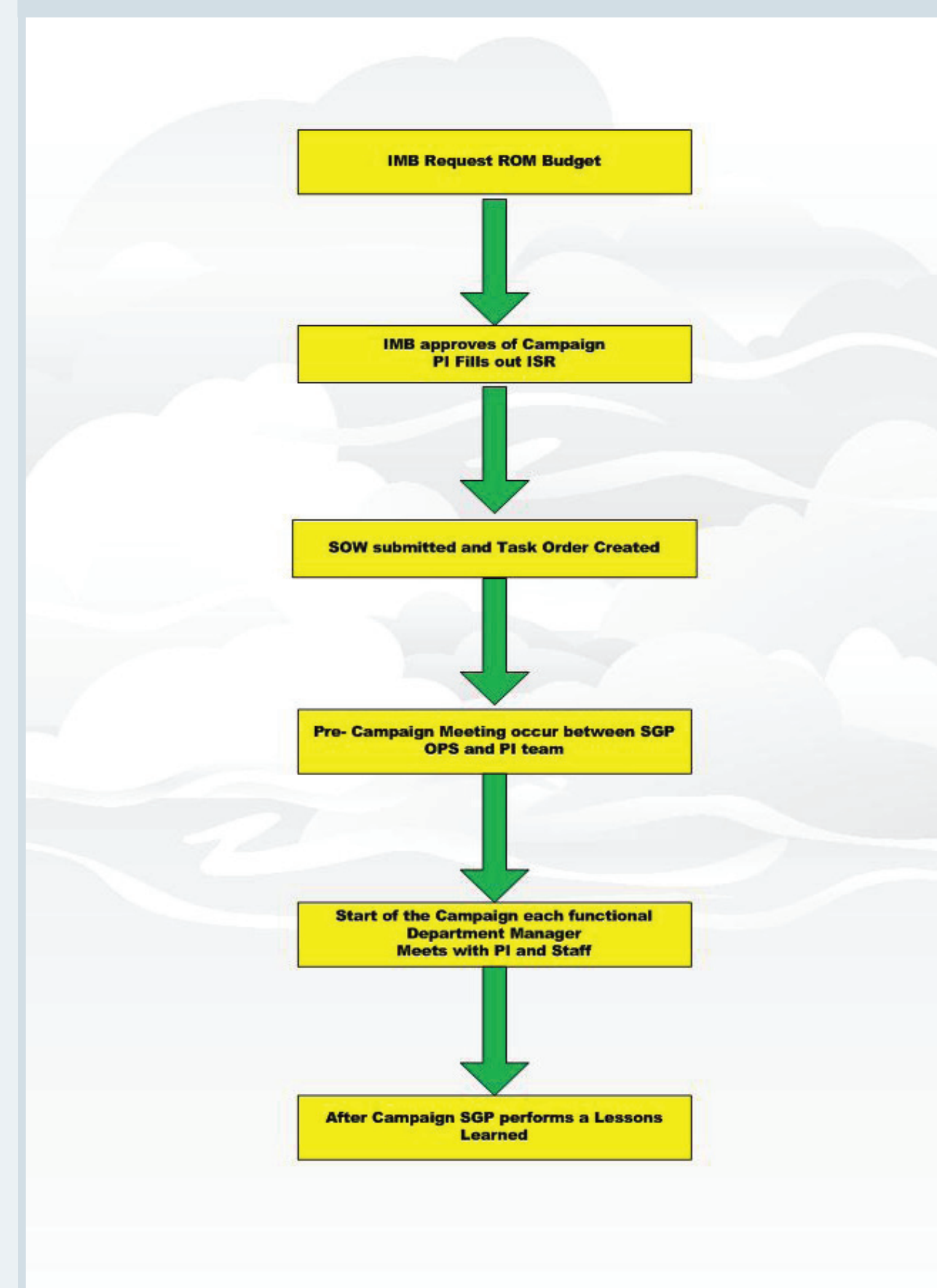
Launch prep for Full Column Greenhouses gas sampling



Doug Sisterson details BBBS system with visiting Korean Scientist



SGP Operations Campaign Process



Instrument Readiness Review

The Instrument Support Request has been designed to gather the information needed to prepare for the deployment of an instrument at an ARM site to insure that all instrument requirements can be properly accommodated by Site Operations. Please complete one Instrument Support Request per instrument, answering all questions as completely as possible. If you feel a question is not applicable to your deployment, please write "NA" – do not leave any questions blank. Site Operations personnel will review this information and will contact you to discuss the requested support.

ARM Climate Research Facility	
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<b>Caution:</b> Note: Any change or substitution to the information described in this Instrument Support Request will require further evaluation by Site Operations before the instrument may be energized and operated, possibly delaying the start of your field campaign.	
<b>1. General Information</b>	
Name:	
Address:	
Phone Number:	
Fax Number:	
Email address:	
Instrument system name:	
Brief description of instrument and measurements:	
Type of deployment:	
<ul style="list-style-type: none"> <li>• Field Campaign (Provide campaign name)</li> <li>• ARM instrument development activities</li> <li>• New operational ARM instrument</li> <li>• New SGP instrument</li> </ul>	
Brief description of your operations plan:	
<p>Are any other instruments currently installed on-site deemed critical to your deployment or experiment?</p> <p><b>CAUTION: NOTE FOR VISITORS TO ONE OF OUR SGP OPERATIONS:</b></p> <ul style="list-style-type: none"> <li>• Loading at the ARM Site is on a first-come, first-served basis. Do not automatically assume that your site can be accommodated.</li> <li>• Vehicle use at the SGP is limited, and ARM Site Operations will not take priority. Do not automatically assume that ARM vehicles will be available for your use.</li> </ul>	
<b>2. Deployment/Removal Support Needs</b>	
<p>Planned dates of deployment: Please include a planned arrival and departure date (Reference: A Site Access Request must be submitted and approved for each person requiring access to an ARM site to support this instrument deployment.)</p> <p>How will your equipment be shipped/transported to the site? (e.g. Yellow Freight, FedEx, private car/truck, etc.) Size and weight of equipment?</p>	

Forms that must be completed before a campaign starts

**Site Access Request Submission**  
 TODAY'S DATE: 03/12/2013 16:16:43 (GMT)  
 SUBMITTER: I.M. Scientist Affiliation:  
 TELEPHONE: 311-367-1111  
 FAX:  
 EMAIL: IMscience@science.edu  
 INSTITUTION: US: College/university

OCO



AOS Validation



David Breedlove stands next to Udall, KS student who found a sonde near her home. David came to her school and gave a ARM presentation.

