Webex Agenda, 8 August 2013

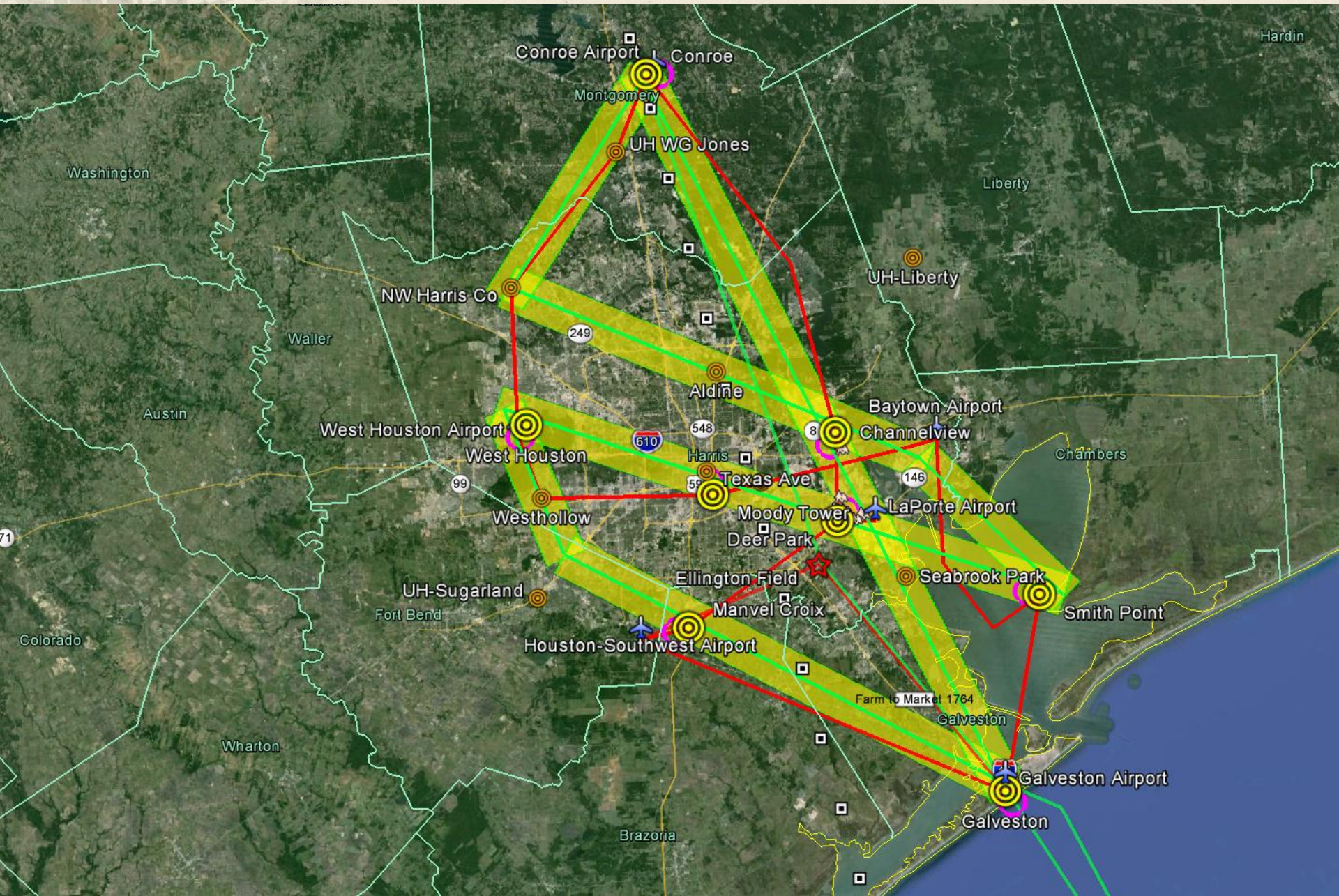
1. Houston Deployment Plans and Update

Some slides are redundant, but they represent the most complete and up to date information. Ops Plan draft will be emailed for comment with slides later today.

2. Short Science Presentation of DISCOVER-AQ material shared during the Gordon Research Conference last week.

DISCOVER-AQ

Observing Strategy for Houston



DISCOVER-AQ

Ground Site Plans

Changes since last telecon are shown in red

Site Name	Spiral Y/N	Pandora Y/N	Aeronet Y/N	Missed Approach	Mobile Hook-up	other DISCOVER-AQ Augmentation
Aldine			Y			
Channelview	Y	Y	Y	N	Y	
Clinton	N	Y	Y	N	N	
Conroe (Airport)	Y	Y	Y	Y	Y	U. Texas – aerosols and NO2
Deer Park	Y	Y	Y	N	N	
Galveston	Y	Y	Y	Y	Y	NOAA Trace gases
LaPorte Airport	N	N	N	Y	Y	EPA Trailer, NOAA Ozone Lidar
Texas Avenue	N	Y	Y	N	N	EPA NO2
Manvel Croix	Y	Y	Y	N	Y	NOAA NO2, Baylor/Rice –neph, hi-vol samplers and PILS/IC
Moody Tower	Y	Y(2)	Y	N	N	UMBC Leosphere, Appalachian State (CH2O, VOCs)
NW Harris Co	N	Y	Y	N	N	
Seabrook Park	N	Y	Y	N	N	EPA NO2
Smith Point	Y	Y(2)	Y	N	Y	NATIVE, Millersville, UMBC MPL, EPA-NO2, TCEQ Profiler, NOAA radiation
UH Coastal Center	N	N	Y	N	N	Pre-existing Aeronet, room for other instruments
UH Liberty	N	N	Y	N	N	
UH Sugarland	N	N	Y	N	N	
West Houston	Y	Y	Y	N	N	
Baytown Airport	N	N	N	TBD	N	Possible missed approach enroute from Smith Point to Moody Tower
Houston SW Airport	N	N	N	TBD	N	Possible missed approach (8 km west of Manvel Croix)
West Houston Airport	N	N	N	TBD	N	Possible missed approach enroute from Westhollow to NW Harris Co

Ground Site Status

Site Name	Pandora Y/N	Aeronet Y/N	Mobile Hook-up	Access Granted?	Comments
Aldine	N	Y	N		Aeronet negotiating directly with school for rooftop emplacement
Channelview	Y	Y	Y		Scaffolds ready and other work still pending
Clinton	Y	Y	N		
Conroe (Airport)	Y	Y	Y		Scaffolding in place, other work still pending
Deer Park	Y	Y	N		Scaffolding in place, complete
Galveston	Y	Y	Y		Scaffolding in place, complete
LaPorte Airport	N	N	Y		Scaffolding in place, other work still pending
Texas Avenue	Y	Y	N		Still negotiating details with Condo owners; EPA in contact with City of Houston
Manvel Croix	Y	Y	Y		Scaffolding in place, other work still pending
Moody Tower	Y(2)	Y	N		
NW Harris Co	Y	Y	N		Scaffolding in place, complete
Seabrook Park	Y	Y	N		Scaffolding in place, complete
Smith Point	Y(2)	Y	N		All details and arrangements should be coordinated through Rich Clark (Millersville University)
UH Coastal Center	N	Y	N		This site complete
UH Liberty	N	Y	N		This site complete
UH Sugarland	N	Y	N		This site complete
West Houston	Y	Y	N		Access is for rooftop instruments, still need to discuss possible NO2 measurement from TCEQ at this site

Yellow indicates that intended activities are still on track
Green indicates completion of intended activity or permission

12 August – Sites open for Trailers and Mobile units
15 August – Met Profiler set up completed

Initial site visits need to be coordinated with Jim Thomas (jwinthomas@embarqmail.com) and Raj Nadkarni (Raj.Nadkarni@tceq.texas.gov). The project will provide lock access codes for subsequent visits.

DISCOVER-AQ

Tentative Ground Site Schedule

Sites	Dates	Groups
Manvel Croix	19-Aug	Baylor/EPA
Conroe	22-Aug	UT-Austin
La Porte	29-Aug	EPA, NOAA
Galveston	26-Aug	NOAA, UH
Manvel Croix	26-Aug	Rice
Smith Point	7-Aug	Met Profiler
College Station	9-Aug	Met Profiler
Fayette Co	22-Aug	Met Profiler
Wharton	23-Aug	Met Profiler
Seabrook	30-Aug	EPA
Channelview	Completed	Aeronet / Pandora
Deer Park	Completed	Aeronet / Pandora
Seabrook	Completed	Aeronet / Pandora
NW Harris	Completed	Aeronet / Pandora
Manvel Croix	Completed	Aeronet / Pandora
Conroe	Completed	Aeronet / Pandora
Galveston	Completed	Aeronet / Pandora

TCEQ would prefer to stick to this schedule, but if anyone has a problem, please contact Raj Nadkarni (Raj.Nadkarni@tceq.texas.gov) as soon as possible.

Smith Point Status

POC for all questions and requirements: Rich Clark (Richard.Clark@millersville.edu)

Balloon operations will be allowed to 1570 feet (478 meters). Two balloons will be operated (one solely for the transponder). Also authorized for 2-3 nighttime ops.

Power improvements at Spoonbill RV Park are complete as of 5 August.

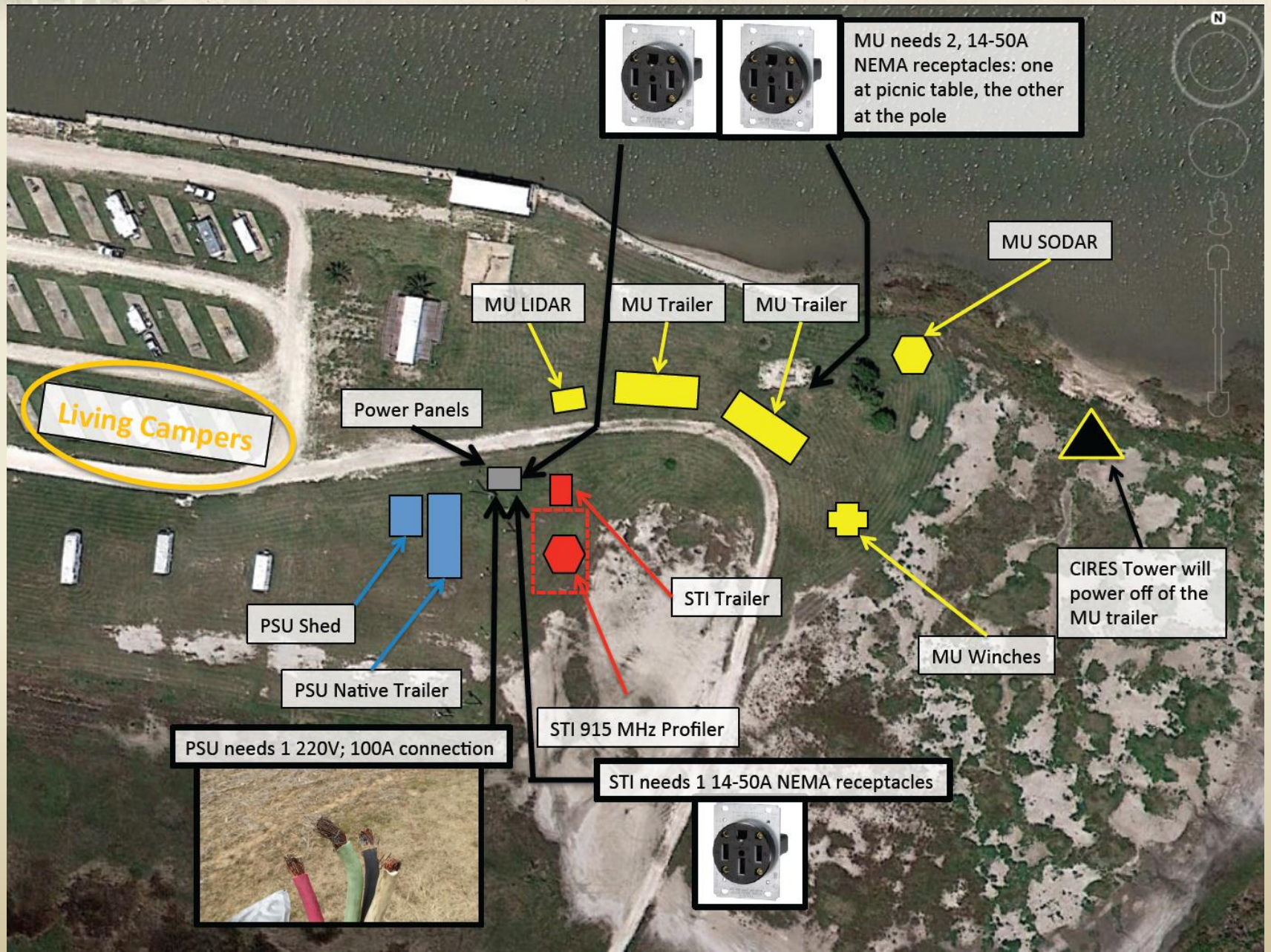
Due to reliability issues with hot spots at this location, satellite communications will be provided through Rich Clark. Rich will be installing the checkbox system when he arrives on 28 August.

Rich Clark and Tracy Woody (Spoonbill RV park) have settled on acceptable language for the legal agreements to operate at Smith Point. Each group will need to have a document signed with similar language:

"Neither of the parties shall assume any liabilities to each other. As to liability to each other or death to persons, or damages to property, the parties do not waive any defense as a result of entering into this contract. This provision shall not be construed to limit the Commonwealth's rights, claims or defenses that arise as a matter of law or pursuant to any provisions of this contract. This provision shall not be construed to limit the sovereign immunity of the Commonwealth or of the State System of Higher Education or the University."

DISCOVER-AQ

Smith Point Layout



Trailer Layout and Hughesnet Checkbox Network

Shipping Documents

- ***All shipping documents including all MSDS forms must be sent to Luci Crittenden at (Lucille.H.Crittenden@nasa.gov) before COB on Wednesday, August 15th.***

- ***Your shipment must be listed on Wallops Shipping Form GSFC20-4 if shipping from Wallops or on Langley Shipping Form LF52 if shipping from Langley.***

- ***The cargo will be picked up at Wallops in the morning Friday, August 30th and at Langley early afternoon on Friday, August 30th***

- ***The truck is due to arrive at Ellington Field early morning on Tuesday, September 3rd. Please have someone from your team ready to help unload at Hangar 135 at that time.***

Ellington Field Shipping POC

Anyone who plans to ship items to Ellington Field in advance of the truck shipment should use the following shipping address:

Wanda Frederick
Attn: DISCOVER-AQ Project
DYNCORP/NASA
Building 270
Ellington Field
Houston, TX 77034

Phone: 281-244-9112
Email: Wanda.J.Frederick@nasa.gov

This information is now on the website, too.

Foreign National Badging
As of August 2, 2013

DISCOVER-AQ	STATUS	SEAC⁴RS (handled by ESPO)	STATUS
Iq Mead (UK)	Thru Export Control at JSC	Armin Wisthaler (Italy)	No need for Wallops
Gregor Stewart (UK)	Thru Export Control at JSC	Tomas Mikoviny (Slovakia)*	Approved for WFF
Detlef Mueller (Germany)	Thru Export Control at JSC	Markus Müller (Austria)*	Approved for WFF, pending at JSC
Ewan Crosbie (UK)	Thru Export Control at JSC	Phillipp Eichler (Germany)	No need for Wallops
Basak Karakut Cevik (Turkey)	Thru Export Control at JSC	Petter Weibring (Sweden)*	With Kelly – no issue (green card)
Yu Jun Leong (Malaysia)	Thru Export Control at JSC	Suzanne Crumeyrolle (France)	No need for Wallops
Tara Yacovitch (Canada)	Thru Export Control at JSC	Nikolai Balashov (Russia)	No need for Wallops
Paola Massoli (Italy)	Thru Export Control at JSC	Yonghoon Choi (S. Korea)*	With Kelly – no issue (green card)
		** Denotes Wallops access*	
Eduard Chemyakin (Russia)	waiting on visa		
Patricia Sawamura (Brazil)	waiting on visa		

Luci will only be assisting with JSC badges for the names listed under DISCOVER-AQ. Luci will work Wallops access for Mikoviny, Muller, Weibring, and Choi.

You MUST present both your PASSPORT and VISA when picking up your badge at Ellington. Badging office hours are 0700-1100 M-F only so prepare your arrival accordingly.

US Citizen (non-NASA) IdMAX Badging
(page 1 of 2)

UNIV of TEXAS	AERODYNE	EPA	RICE UNIV.
David Allen	Cody Floerchinger	Timothy Buckley	Robert Griffin
Jeffrey Bean	Edward Fortner	Rachelle Duvall	Carlos Hernandez
Rachael Bush	Scott Herndon	Eric Hall	Henry William Wallace
Cameron Faxon	Edward Niple	Surender Kaushik	**CU-CIRES/NOAA**
Lea Hildebrandt Ruiz	Joseph R Roscioli	Russell Long	John Holloway
Gary McGaughey	**NCAR**	Jennifer Orme-Zavaleta	**UNIV of CA - Berkeley**
Steven Orwick	David Knapp	James Szykman	Ronald Cohen
Maria Stanzione	Denise Montzka	Ramona Trovato	Kaitlin Duffey
David Sullivan	Andrew Weinheimer	**ALION (EPA)**	**UNIV of MARYLAND**
James Thomas	**CLARKSON UNIV.**	Samuel Garvey	Clare Flynn
Vincent Torres	Matthew Brown	Keith Kronmiller	**PENN STATE**
	UNIV of HOUSTON	Michael Wheeler	Bianca Baier
	James Flynn	**UNIV of ALABAMA**	Douglas Martins
	Barry Lefer	Michael Newchurch	Ryan Stauffer

Badge requests have been submitted for all the people listed above. Please verify the name listed above matches the **photo ID that you will present at Ellington** in order to pick up your badge. Legal first names are needed – middle names are not required. All badges will have South Gate access to Hangar 135. Any issues, please let Luci Crittenden know ASAP.

US Citizen (non-NASA) IdMAX Badging
(page 2 of 2)

TCEQ	NOAA	AirTEC	SEAC4RS BADGED
Douglas Boyer	Raul Alvarez	Michael Anderson	Benjamin Nault (Berkeley)
Mark Estes	Robert Michael Hardesty	Jeffrey Chandler	Hannah Halliday (PSU)
Michael Gatewood	Paul Kelley	Brian Scott Farley	Sally Pusede (Berkeley)
Andrew Goodridge	Andrew Langford	Eric Gregory	Paul Wooldridge (Berkeley)
Jack Johnson	Winston Luke	Brian Norman	Alan Fried (U of CO)
Raj Nadkarni	Xinrong Ren	James Schultz	Dirk Richter (U of CO)
James Smith		Brett Tucker	James Walega (U of CO)
Jonathan Steets		Gary Zimmerman	Jack Lin (GA Tech)
	GREEN CARD HOLDERS		Charles Harward
	Yunsoo Choi (UT)		
	Christoph Senff(NOAA)		

Badge requests have been submitted for all the people listed above. Please verify the name listed above matches the **photo ID that you will present at Ellington** in order to pick up your badge. Legal first names are needed – middle names are not required. All badges will have South Gate access to Hangar 135. Any issues, please let Luci Crittenden know ASAP.

Access to Ellington Field for NASA PIV Badge Holders

1. Go to https://idmax.nasa.gov/ (You should have already done this!!!)
2. Click on the “Self Service” tab
3. Choose “Add Travel Center”
4. Under “Select travel center(s):” check the box for JSC if it is not already listed under your list of “Active travel center(s):”
5. Click on the “Access Management” tab
6. Choose “Request or Modify Physical Access”
7. Click on the “Physical Access Levels” tab
8. Enter “JSC-EF-Gate Entry” in the “Find PAM Resource” field and click on “Search” (This search will fail if you do not enter this exactly. You may also enter just JSC-EF and the search will return 5 pages of results with “JSC-EF-Gate-Entry” as the last entry on the 5th page)
9. Click on “Add to Request” for JSC-EF-Gate Entry
10. Click on the “Sponsor” tab (instructions continued on next slide)

Access to Ellington Field for NASA PIV Badge Holders (cont.)

11. Enter “Lisa” in the field for first name and “Buswell” in the field for “Last Name” and click “Search”

12. Click on “Select Sponsor” next to Lisa Buswell’s name

13. Toward the bottom of the page there is a field with a red star for “Expiration Date Requested”. Enter 10/2/2013

14. Further down, there is a field with a red star for “Business Justification”. Enter “Supporting DISCOVER-AQ science flight deployment at Ellington Field”. You should also mention SEAC4RS if you are involved in both experiments.

15. Click “Continue”, take one last look to verify details and click “Submit Request”

16. Send an email to jsc-badgserv@mail.nasa.gov with “Access request” as the subject. In the body of the email, state the following:
    - I would like my badge verified to ensure that access can be added for the following area at Ellington: JSC-EF Gate Entry
    - I have already requested controlled access through the Physical Access Management tool on the Access Management tab in IdMAX

(You will receive an auto-response stating that the request has been received and a response will be sent in (3) three business days)

Mobile Lab Operations

Due to the attention-grabbing nature of the mobile labs (and P-3B) operating in close proximity to petrochemical and other facilities, a letter is being drafted for Homeland Security. A copy of this letter will be provided to show to any authorities in case you are stopped and questioned.

We need to establish a point of contact for coordinating the use of the mobile hook-ups across the study area for stationary sampling and overnight periods.

While mobile operations are flexible in nature, it would be good to have a strawman plan for each vehicle in terms of where and how they anticipate sampling. That will help get them into the collective mindset of the team in terms of the integrated observing strategy.

Primary POCs have been identified. A telecon to discuss more detailed operations will take place tomorrow

Primary POCs:
Aerodyne - Scott Herndon or Paola Massoli
University of Houston - Jimmy Flynn
NASA Langley - Bruce Anderson

Small Sensors

AQMesh sensors have been delivered and are now operating at Langley on the roof of the CAPABLE air quality site. They will be repackaged and delivered to Houston late next week.

Both the Deer Park (4 schools) and Laporte (3 schools) Independent School Districts as well as DeZavala Elementary have agreed in principle to hosting small sensors, although specific details do need to be arranged. Other units will be placed at Deer Park (or Laporte Airport) and on the Aerodyne van.

Installation of AQMesh sensors will be accomplished by Iq Mead and Bobby Martin during the week of 19 August. A schedule needs to be arranged with the school contacts.

Additional Cairclip sensors are being secured to ensure that each school has at least one unit. Russell Long will accompany Iq and Bobby to distribute these devices and brief the schools on their implementation.

Melissa Yang will serve as POC and host for the online chat sessions with teachers and students on flight days. This is different than the scientists onboard who do most of the chatting. Emily Schaller will be busy with HS3, but is available to provide tips on what to do.

Daily Schedules (this information will be published in the Operations Plan)

Daily Activities

1300 (Central) Daily Flight Planning Meeting – conducted via Webex to enable participation by team members and collaborators at all remote sites

NLT 1600 (Central) Daily Fly/No-Fly decision for subsequent day distributed by email

1600 (Central) Daily (or after landing) – Polling of team for daily status report. Negative reports will trigger a reevaluation of the Fly/No-Fly decision.

No Fly Day Activities

Aircraft open for up to 8 hours of access (0800 – 1600 Central).

1600 Team meeting – conducted via Webex to enable participation by team members and collaborators at all remote sites (NO MEETING on flight days)

Down Day

No access to aircraft except for replenishment of LN2 for DACOM

DISCOVER-AQ

Daily Schedules (this information will be published in the Operations Plan)

Flight Day Aircraft Schedules – Based on available sunlight, flights will need to generally fall in the 0800-1800 timeframe. The following schedule assumes a 0900 takeoff for the P-3B.

Local Time	Time from Takeoff	Cumulative Time	Event
P-3B			
0600	-3:00	0:00	P-3B Doors Open
0830	-0:30	2:30	P-3B Doors Close
0900	0:00	3:00	P-3B Takeoff
1700	+8:00	11:00	P-3B Landing
1800	+9:00	12:00	P-3B Doors Close
King Air			
0730	-1:00	0:00	King Air Doors Open
0815	-0:15	0:45	King Air Doors Close
0830	0:00	1:00	King Air Takeoff (Sortie 1)
1230	+4:00	5:00	King Air landing (Sortie 1)
1330	+5:00	6:00	King Air Takeoff (Sortie 2)
1730	+9:00	10:00	King Air Landing (Sortie 2)
1830	+10:00	11:00	King Air Doors Close

Daily Reports (this information will be published in the Operations Plan)

Date	Daily Reports		Flight Reports		Quick Look Data Reports					
	Outlook	Status	P-3B	B200	HSRL-2	ACAM	Aeronet	Pandora	TCEQ	Lidars

As in past campaigns, daily reports will be uploaded to the website. Instructions will be provided in the Operations Plan.

These are a valuable tool for tracking accomplishment of objectives and communicating progress to NASA HQ, collaborators, and other interested parties

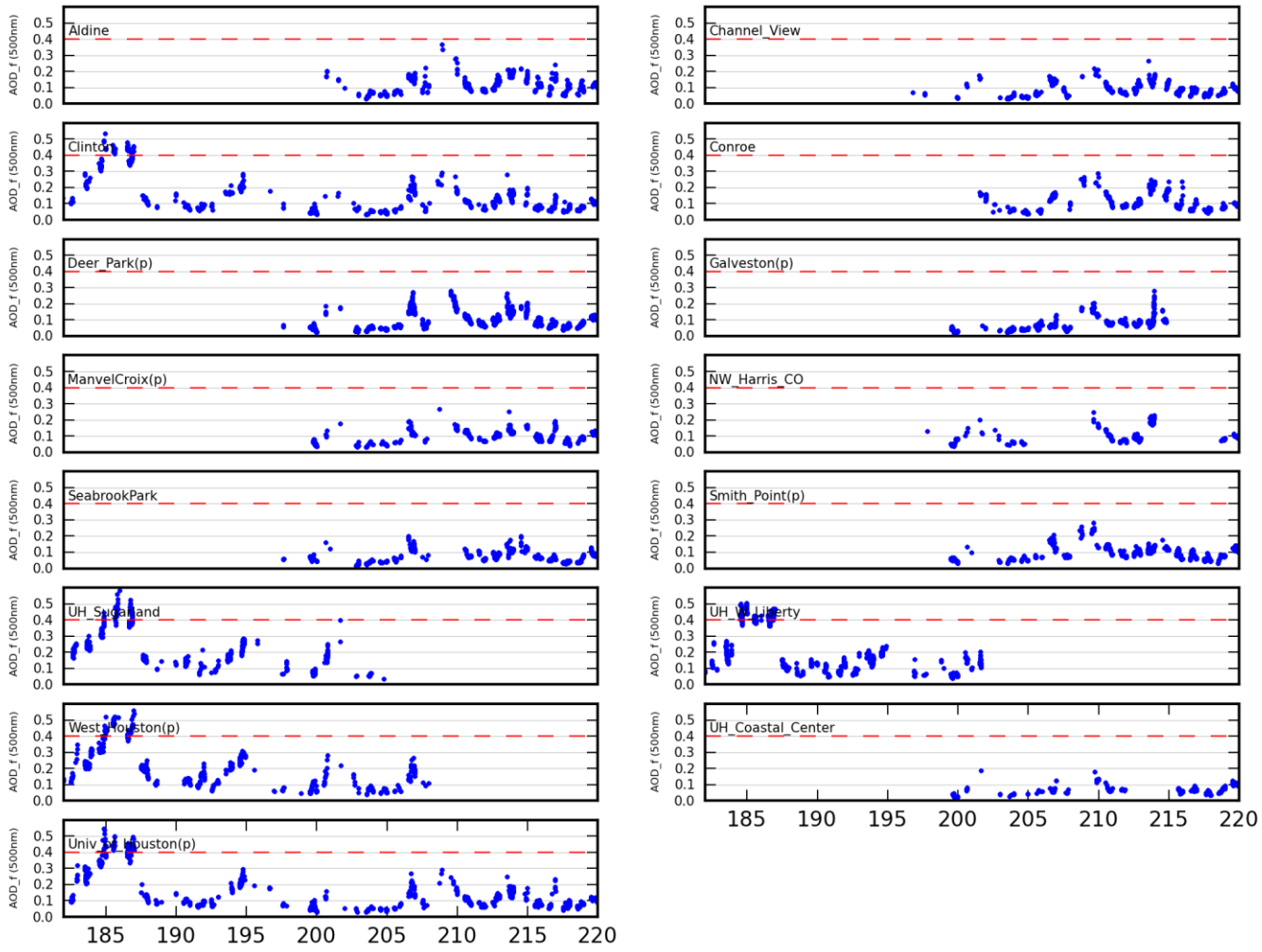
<u>Responsibilities:</u>

Outlook – Ken Pickering
Status – Mary Kleb
Flight Reports – Jim Crawford

HSRL2 – Chris Hostetler
ACAM – Scott Janz
Aeronet – Brent Holben
Pandora – Jay Herman
TCEQ – Gao Chen
Lidars – Ray Hoff and Rich Clark

If others would like to offer daily reports, we can add you to the system.

Aeronet Field Data Sample



Daily Status Report (this information will be published in the Operations Plan)

DISCOVER-AQ Daily Observational Status

Date:

Status definitions:
Green = Full Capability (no comment required)
Yellow = Partial Capability (comment on specific instruments or variables compromised)
Red = Severe or Total Loss of Capability (comment on prognosis for recovery)

P-3B	Status	Comment
LARGE (Anderson)		
NOxyO3 (Weinheimer)		
TD-LIF (Cohen)		
DFGAS (Fried)		
DACOM (Diskin)		
DLH (Diskin)		
AVOCET (Yang)		
PTR-MS (Wisthaler)		
NOAA SO2 (Holloway)		
PDS (Barrick)		
REVEAL (VanGilst)		
B200	Status	Comment
HSRL-2 (Hostetler)		
ACAM (Janz)		
Ground	Status	Comment
Pandora (Herman)		
NATIVE (Thompson)		
UMBC (Hoff)		
Millersville (Clark)		
Aeronet (Holben)		
Aerodyne(Herndon)		
Cambridge (Mead)		
NOAA Lidar (Hardesty)		
NOAA Radiation (Lantz)		
Moody Tower (Lefer)		
EPA (Long/Szykman)		
TCEQ/City of Houston	Status	Comment
Channelview		
Conroe		
Deer Park		
Galveston		
Manvel Croix		
West Houston		

This report will be produced daily.

Inclusion in this plan is only required for NASA-funded groups, but it is helpful if all participants are willing to provide information as it could affect flight decisions.

Other information needed for the Operations Plan

The Ops Plan will have a list of contacts (cell phone numbers) for finding people in the field. We will start with the numbers we already have from the last deployment. If you want to be added (or deleted) from that list, please contact Mary Kleb. (This list will NOT be posted on the web, and will only be distributed to the DISCOVER-AQ mailing list.)

The Ops Plan will provide list the teams providing a daily status to the project. This list MUST contain all teams directly funded by NASA. For other teams, this is optional, but the daily status does factor into Fly/No-Fly decisions. Please let Mary Kleb know if you want to be included on this list.

The Ops Plan will include instructions for posting quick look data updates on the website. This is required for some investigators and is optional for others. If you plan to generate browse images or other material that you are willing to post, please contact Mary Kleb. This material is very helpful in keeping NASA HQ, the public, and other interested parties updated on our progress.

DISCOVER-AQ

Air Quality Forecasts for the Houston Deployment

- **Univ. of Houston (Yunsoo Choi)**
  WRF/CMAQ - 4-km resolution; NEI-2008 with MOVES
  WRF-Chem - 4-km resolution; NEI-2005

- **NOAA/ARL (Pius Lee)**
  WRF/CMAQ at 12-km (possibly 4-km) resolution;
  point and area emissions projected to current year;
  MOBILE6 vehicle emissions

- **TCEQ (Mark Estes and ENVIRON)**
  WRF/CAMx at 12-km resolution (4-km may be possible)

- **NASA/GSFC (Arlindo da Silva)**
  GEOS-5 at 0.25 deg. resolution; GOCART aerosols, CO, SO_2

DataID Registration

The website is ready for registration of dataIDs (Gao will be emailing instructions very soon.)

Those on the aircraft who already have dataIDs from previous DISCOVER-AQ campaigns do NOT need to enter new dataIDs

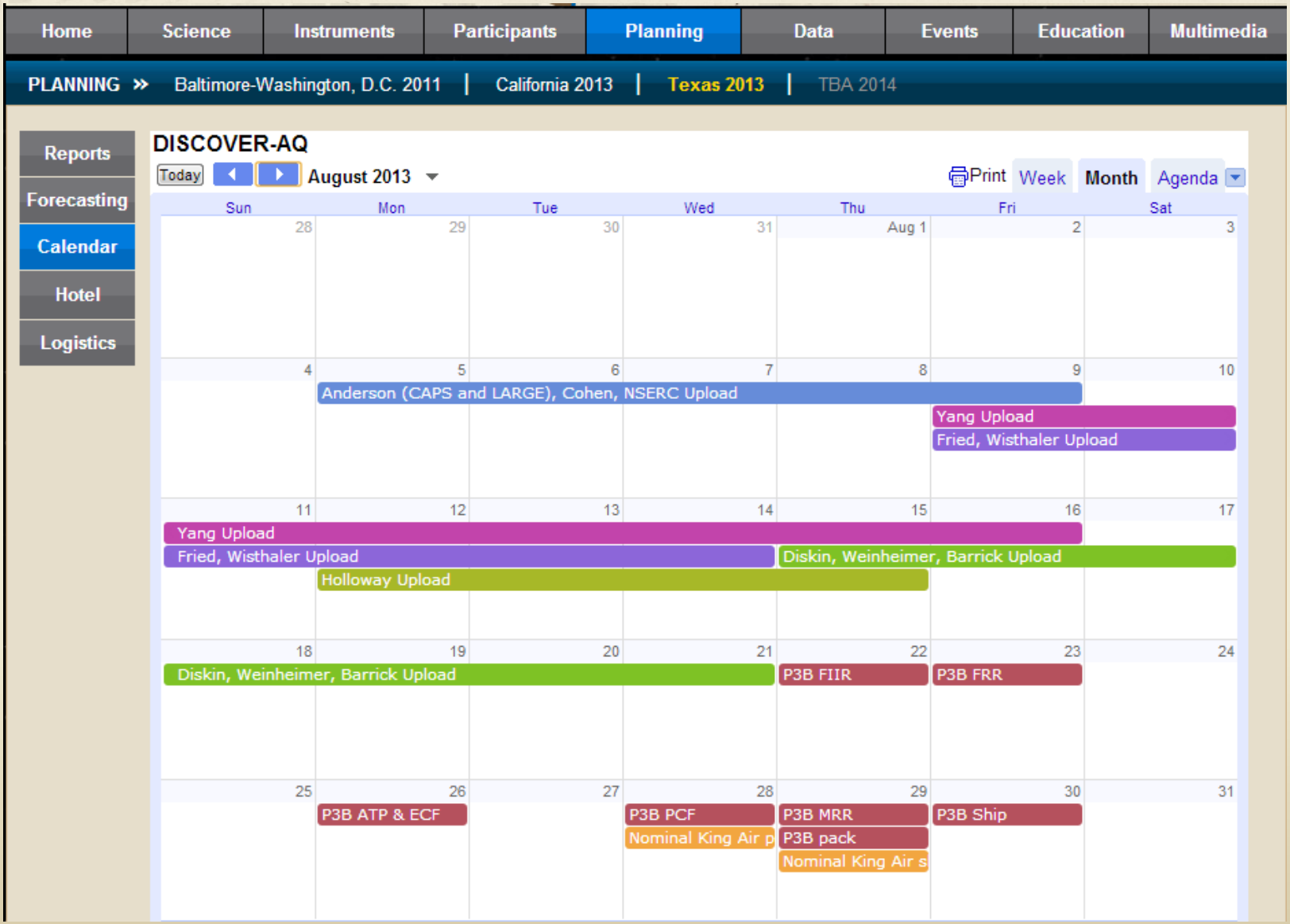
Everyone on the ground will need new dataIDs since the location names have changed.

Overlap with SEAC^{4}RS: Second Site Survey

Luci Crittenden and Kent Shiffer visited Ellington Field on 15 July to assess the logistics of having both groups occupy the field. Here are some relevant results:

- Badging: The badging office at Ellington is only open M-F, 7-11 am. Badging at any other time will have to take place at NASA Johnson
- Internet: ESPO will set up 3 routers (1 on first floor with us)
- Space: DISCOVER-AQ and SEAC^{4}RS overlap personnel will be located on the first floor of the hangar. SEAC^{4}RS will occupy the second floor.
- Power: There is a wealth of power receptacles
- Conference Room: We will be using the conference room on the second floor for meetings and webex sessions. The room has 30+ chairs and a conference phone, but we will need to bring a projector.
- Phones: We will have one side room upstairs where the forecasters can make their daily contacts. You may be able to use it when available, but most of us will need to depend on our cell phones.
- Climate control: The hangar office/lab space has AC. The hangar floor has fans.
- Sufficient ground support equipment is available, but access to air stairs will still be a challenge.
- LN2: Available onsite, but not near the hangar.
- Falcon aircraft: The Falcon will have to locate at Hobby Airport. We need to assess how this impacts calibration of ACAM and GeoTASO

P-3B Integration Schedule



Upload activities will include both weekdays and weekends

Accommodations in Houston

Identify yourself with the DISCOVER-AQ room block for any further reservations!

Homewood Suites by Hilton-Houston Clear Lake **Phone: 281-486-7677**
401 Bay Area Blvd., Houston, Texas 77058
Arrival Date: September 2, 2013 / Departure Date: October 1, 2013

Number of Rooms: 40

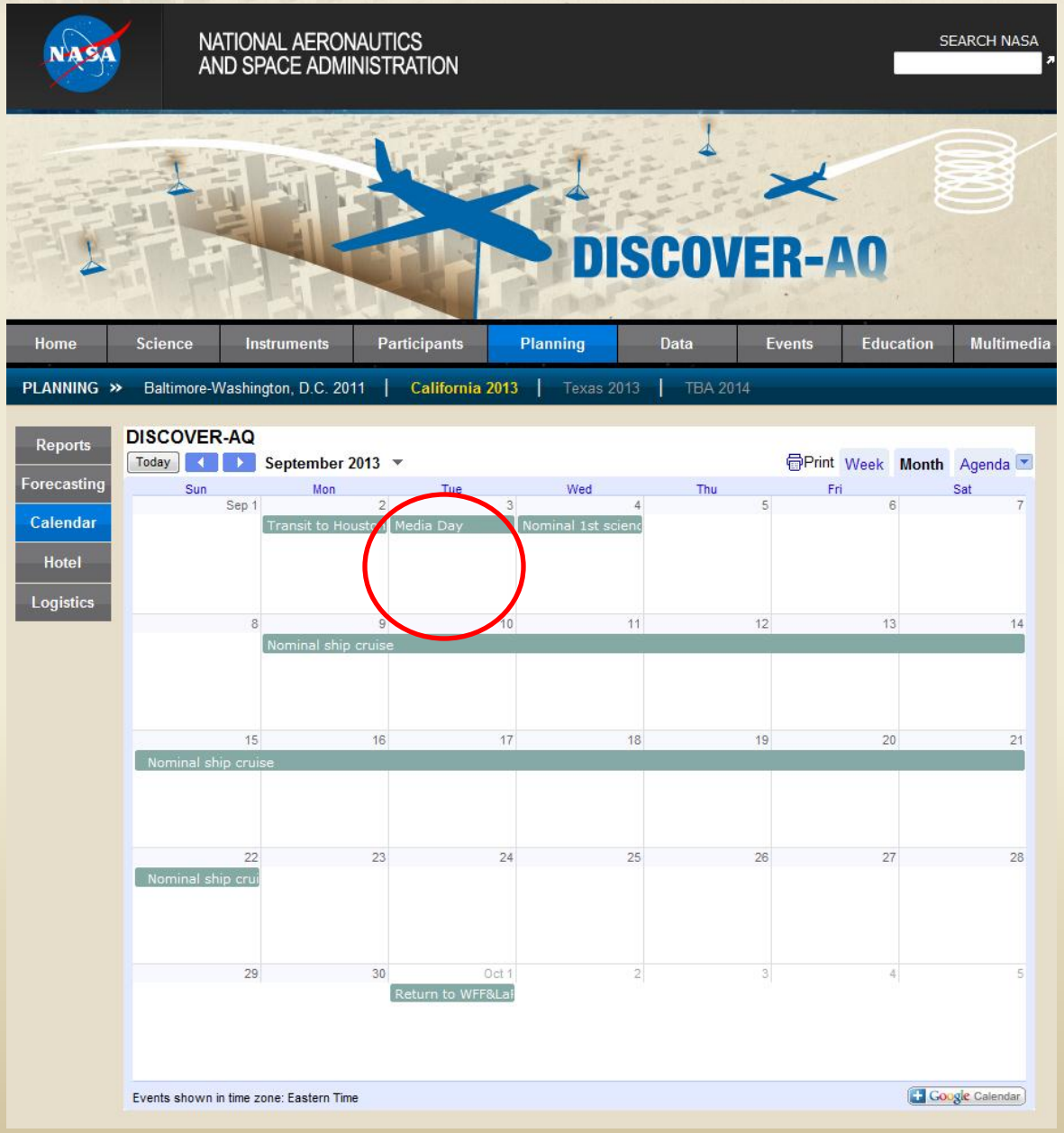
Room Type and Rate: One Bedroom Suite with a king bed @ $99.00 per night plus tax (Note: All suites include a sofa sleeper in the living area.) Room rates are quoted exclusive of local taxes and fees, currently 17%. If you are tax exempt, then each guest will be asked to sign federal tax exemption form at check in. **(Federal employees, please do this!!!!!)**

Reservations/Payment:
To make a reservation, please call the hotel directly and ask for the NASA Discover-AQ room block. All reservations are required to be guaranteed with a credit card.

Cancellation Policy:
The room block will be released on August 18, 2013 and rooms at the above rate will be available on a rate and space basis. If it becomes necessary to cancel an individual reservation, to avoid a one night's charge of room and tax the reservation must be cancelled 6 pm 24 hours prior to the arrival date.

CHECK-IN/CHECK-OUT:
Check in time is 3:00pm and check out time is 12:00 noon.

Houston Deployment Schedule



- 2 Sep - Transit to Houston
- 3 Sep - Media Day
  (10am – noon)
- 4 Sep - First possible science flight
- 1 Oct - Return to WFF
- Other dates of potential interest from TCEQ:

late Aug – AQRP request for proposals

late Oct – proposals due

Week of 11 Nov – ITAC meeting, chance to share preliminary results of campaign

P-3 Transit Manifest (KWAL-KEFD)

DISCOVER-AQ NASA P-3B (N426NA)
FLIGHT ITINERARY AND PASSENGER MANIFEST

Houston - Sept. 2013

TRANSIT FLIGHT

Pilot:	Mike Singer	Flight #:	DAQ-1 TRANSIT
Co-Pilot:	Jeff Chandler	Date:	Sept 2., 2013
3rd Pilot		From:	KWAL
FE:	Brian Yates	To:	KEFD
		Time Out:	
Total Hrs:		Time Off:	
		Time Down:	
		Time In:	

	Name	Organization/Instrument
1	John Barrick	PDS/NO2
2	Eric Buzay	REVEAL
3	empty seat	REVEAL
4	Tom Slate	DLH/DACOM
5	Charles Harward	DLH/DACOM
6	empty seat	DFGAS
7	James Walega	DFGAS
8	empty seat	NH3
9	empty seat	NOxy
10	David Knapp	NOxy
11	Markus Mueller	PTR-MS
12	James Geiger	AVOCET
13	Melissa Yang	AVOCET
14	Kaitlin Duffey	TD-LIF
15	Paul Wooldridge	TD-LIF
16	Andreas Beyersdorf	LARGE
17	Rich Moore	LARGE
18	Eddie Winstead	LARGE
19	Gary Zimmerman	ACM - crew
20		ACM - crew

Changes or additions should be sent to Luci Crittenden

Transit may need to have fewer passengers due to extra weight of flyaway kit. Waiting for WFF to define max number of passengers.

Space required at Ellington Field

Space will be at a premium at Ellington Field. Any changes to these requirements can be sent to Luci Crittenden (Lucille.H.Crittenden@nasa.gov)

Requester	Tables	Chairs	Comment
Barrick	1	2	Looks OK
Beyersdorf	4	6	Satisfies requirements for both DISCOVER-AQ and SEAC4RS
Cohen	2	4	Satisfies requirements for both DISCOVER-AQ and SEAC4RS
Crawford	2	4	May get away with 1 table, but do need at least 4 chairs
Diskin	3	6	Satisfies requirements for both DISCOVER-AQ and SEAC4RS
Fried	2	4	Satisfies requirements for both DISCOVER-AQ and SEAC4RS
Hoff/Visitors	1	4	
Hostetler	4	7	Need one of these tables to be by the aircraft
Janz	3	3	Need one of these table to be by the aircraft
Pickering	1	3	Looks OK
Weinheimer	2	4	Includes space for Deb Zweers
Wisthaler	2	4	Satisfies requirements for both DISCOVER-AQ and SEAC4RS
Yang	1	2	Looks OK

Data Status for California

The data archive went public on 17 June.

All preliminary data was removed from access.

Almost all data is on the archive. We will communicate with those few groups still preparing data.

Merges will need to wait until all data is available.

While video from the P-3B has been available for some time, we will continue to work on getting other ancillary information (e.g., HYSPLIT trajectories, satellite images, etc.)

Any questions on format or upload should be addressed to Gao Chen (Gao.Chen@nasa.gov) or Ali Aknan (Ali.A.Aknan@nasa.gov)

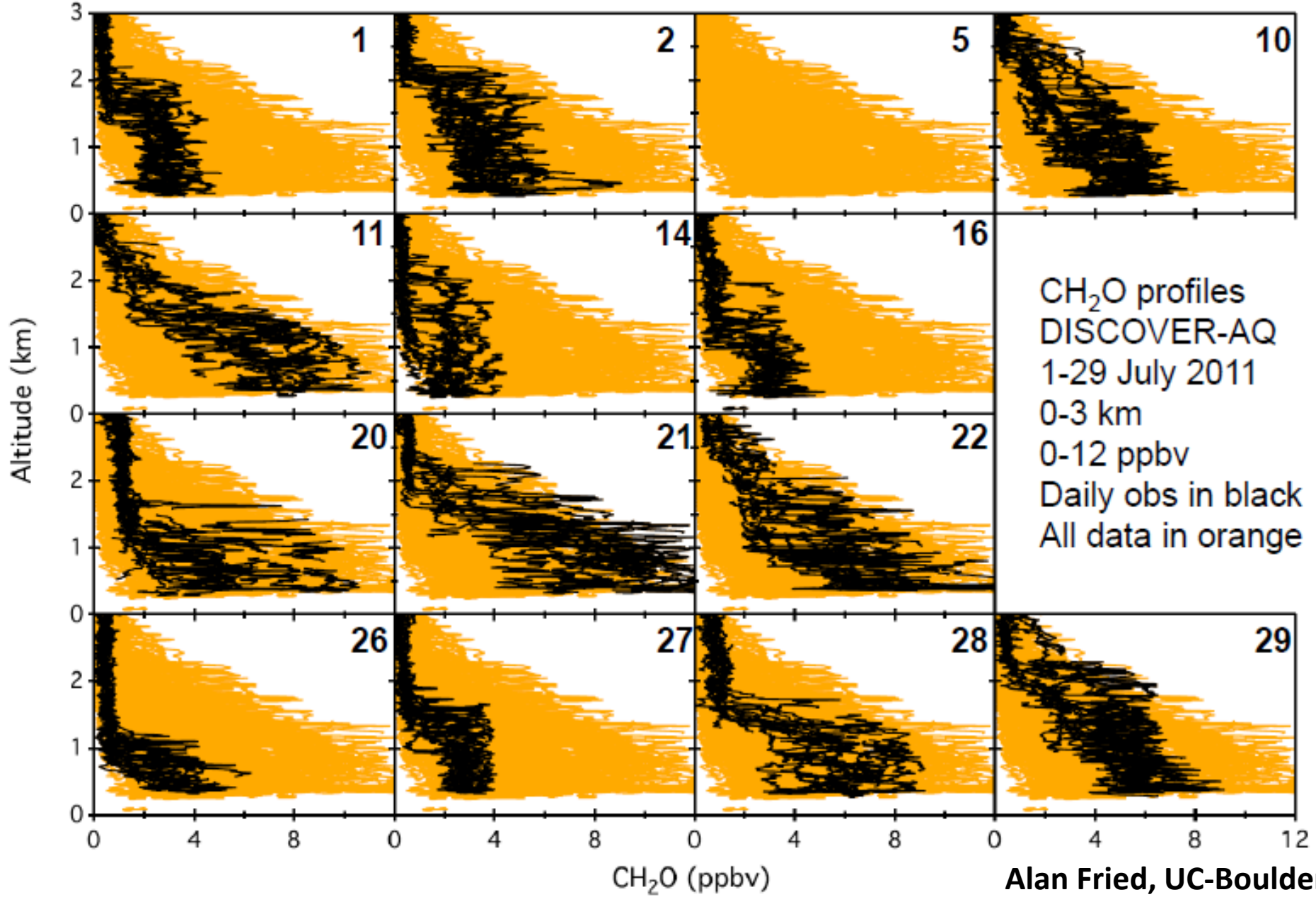
It is important to indicate the final data status in your last revision note. In addition, the entry of “STIPULATIONS_ON_USE” should indicate that the data is open to public.

DISCOVER-AQ

NASA

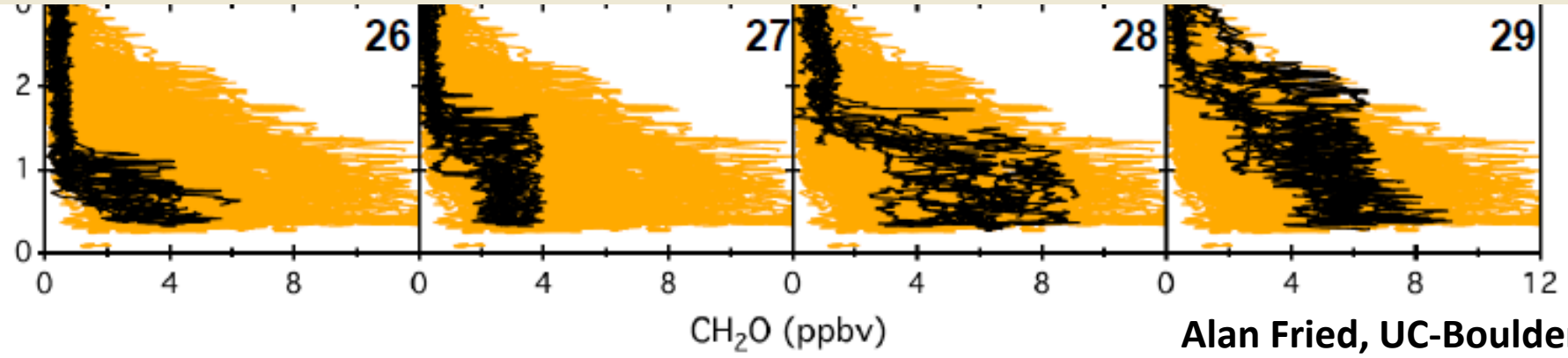
The following slides are a subset of Jim Crawford's talk at the Gordon Research Conference on Atmospheric Chemistry as a Discussion Leader to introduce the session on Atmospheric Oxidation

CH_2O Aircraft Soundings

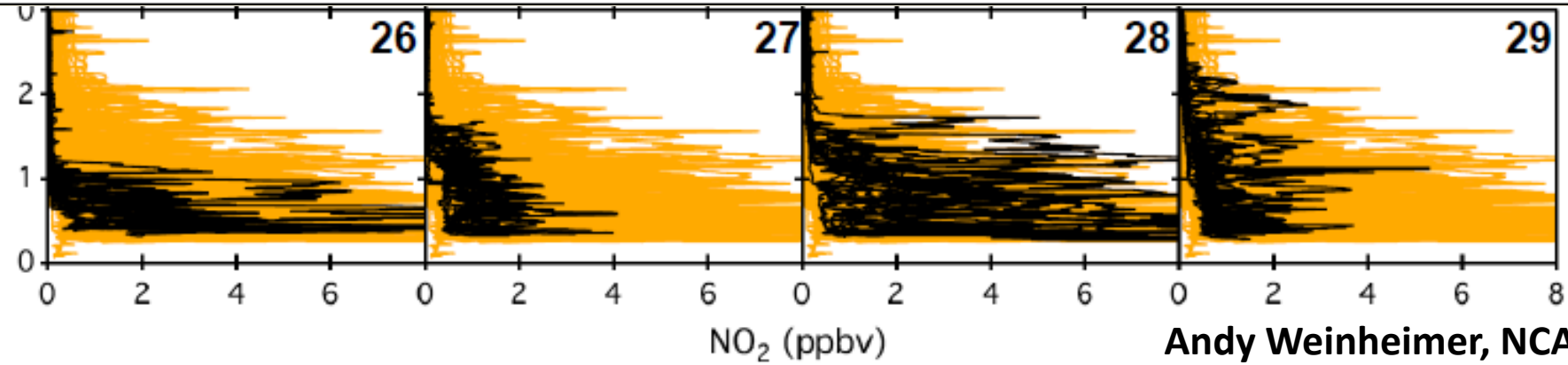


Alan Fried, UC-Boulder

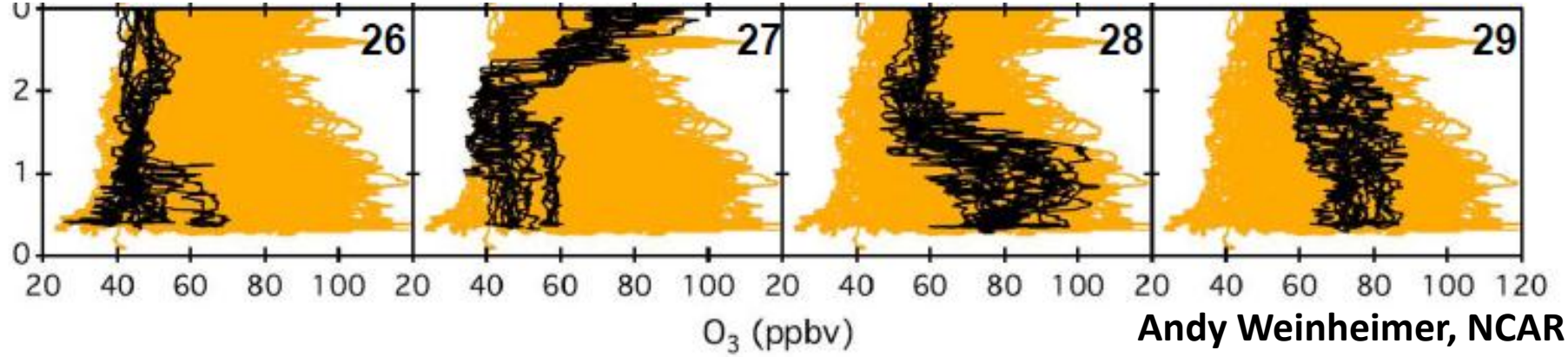
TEMPO-relevant trace gases
(Tues 26 – Fri 29 July)



Alan Fried, UC-Boulder

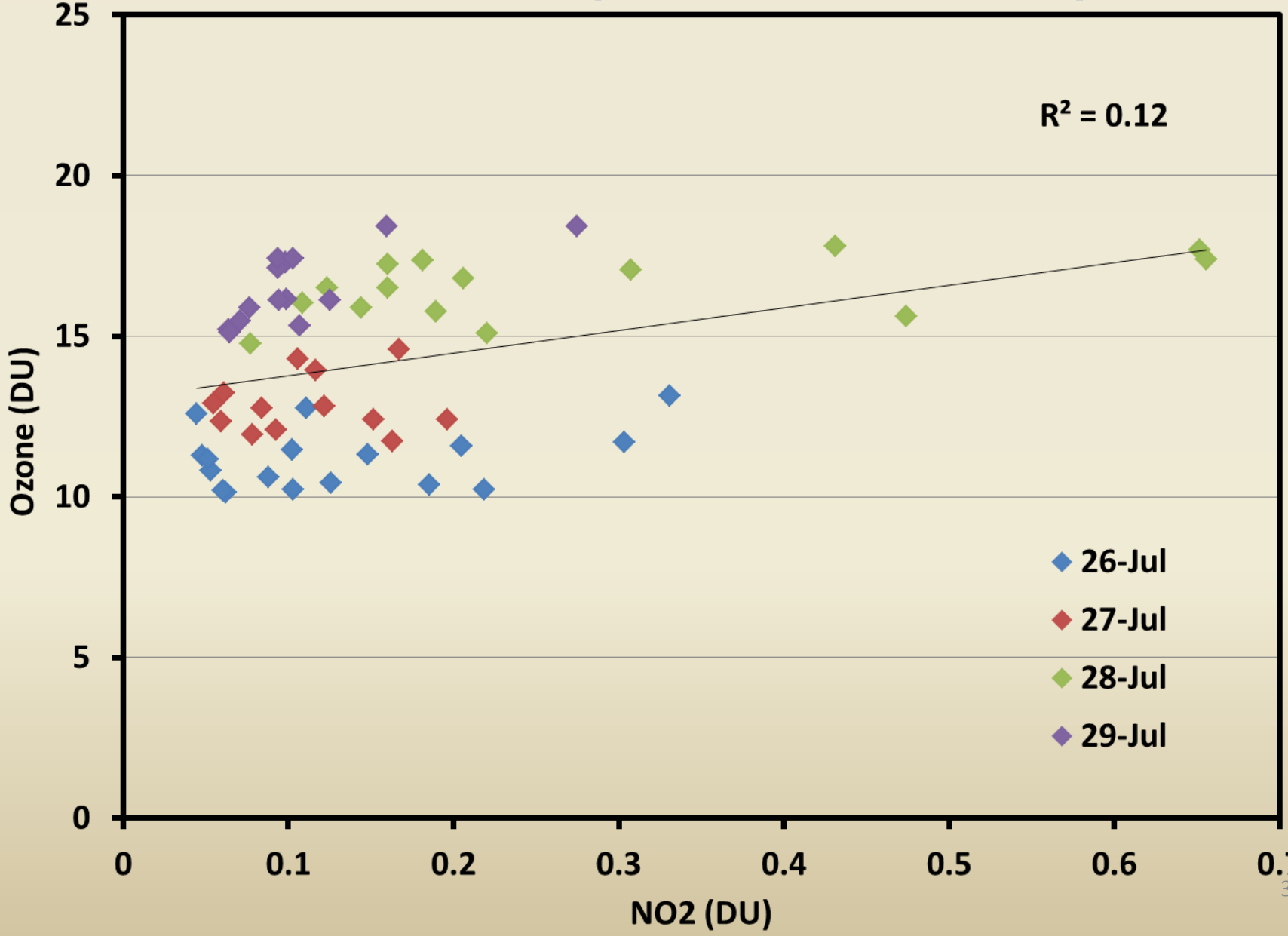


Andy Weinheimer, NCAR

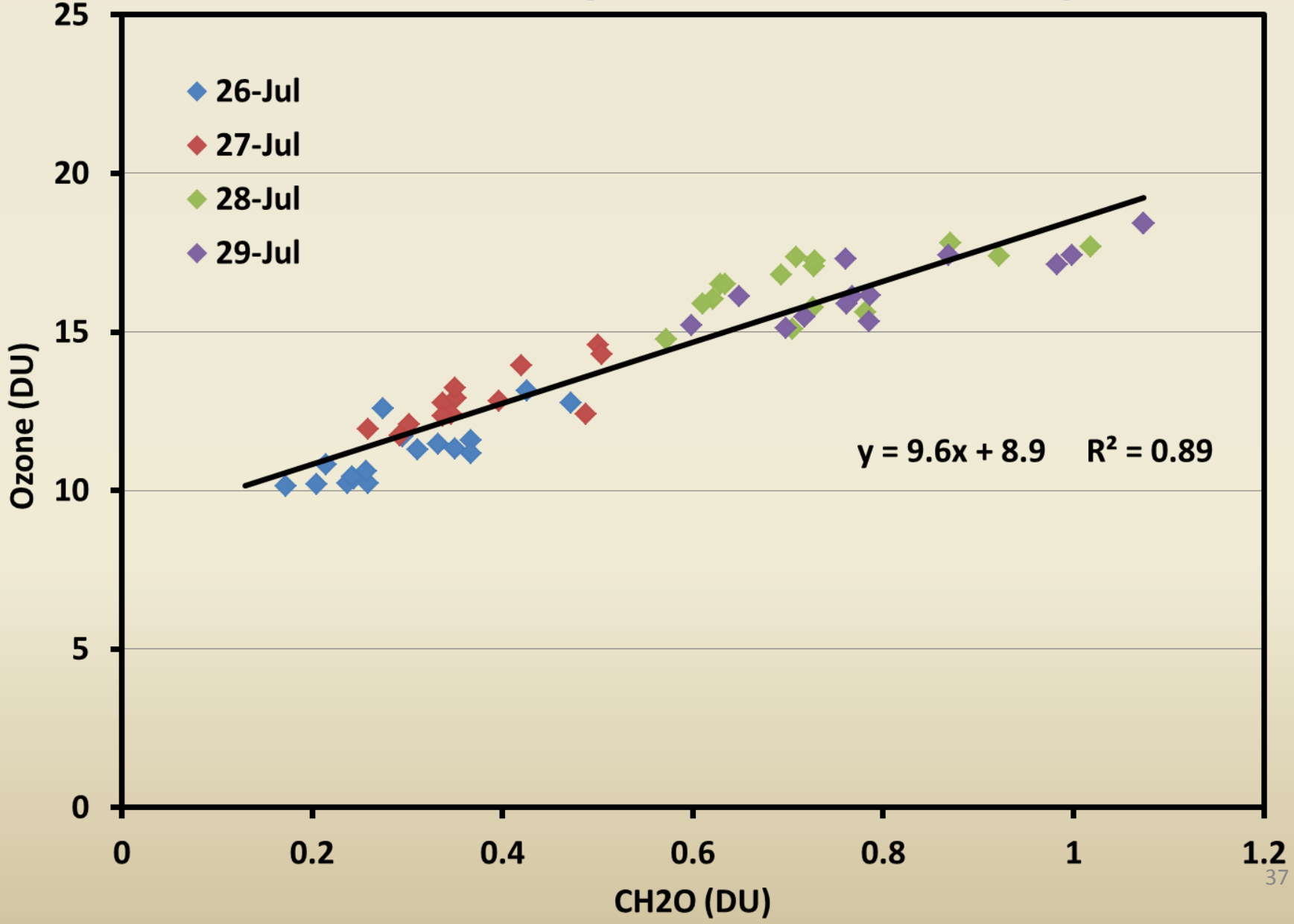


Andy Weinheimer, NCAR

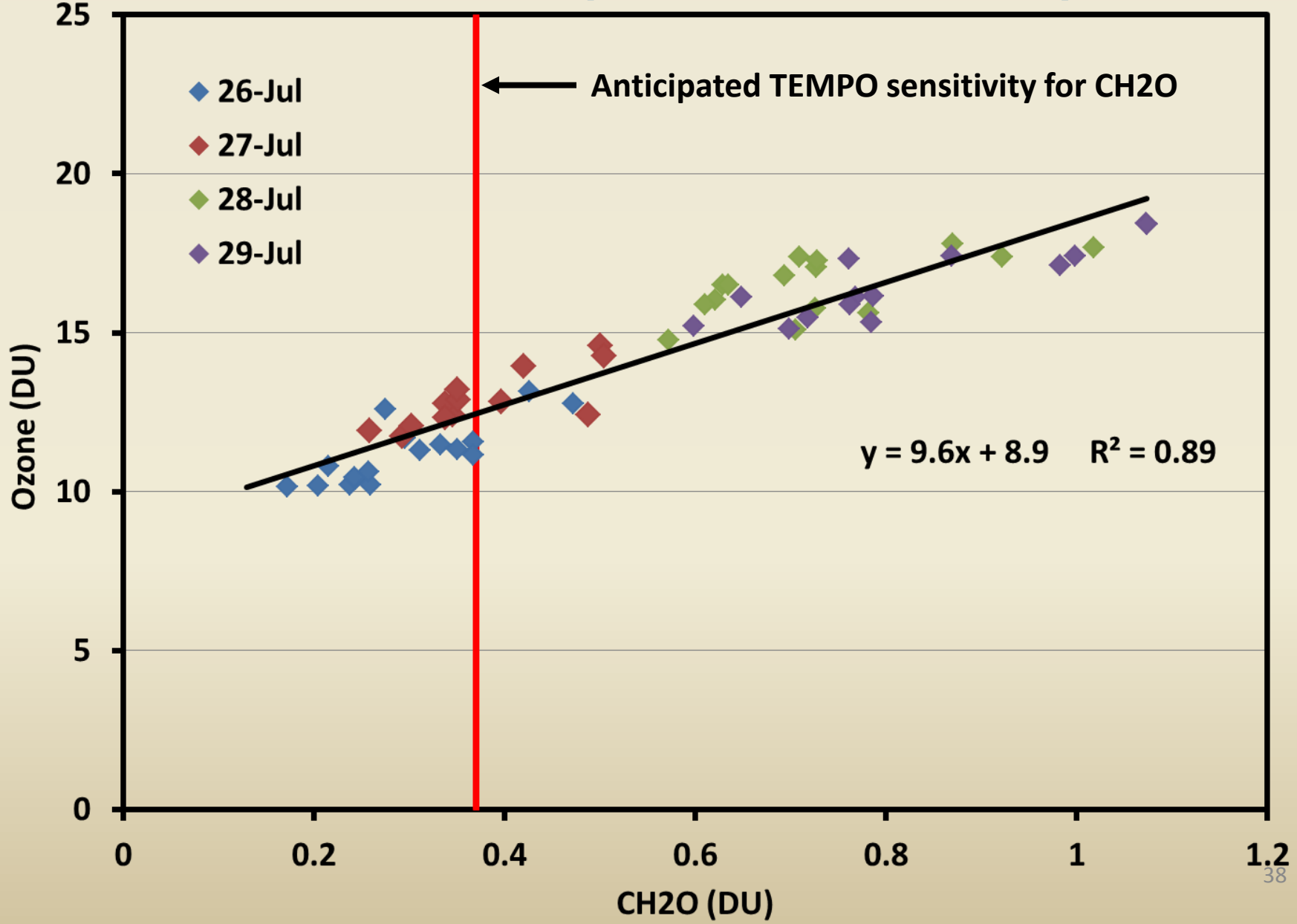
O_3 and NO_2 Integrated Columns (0.3 to 3.2 km altitude)



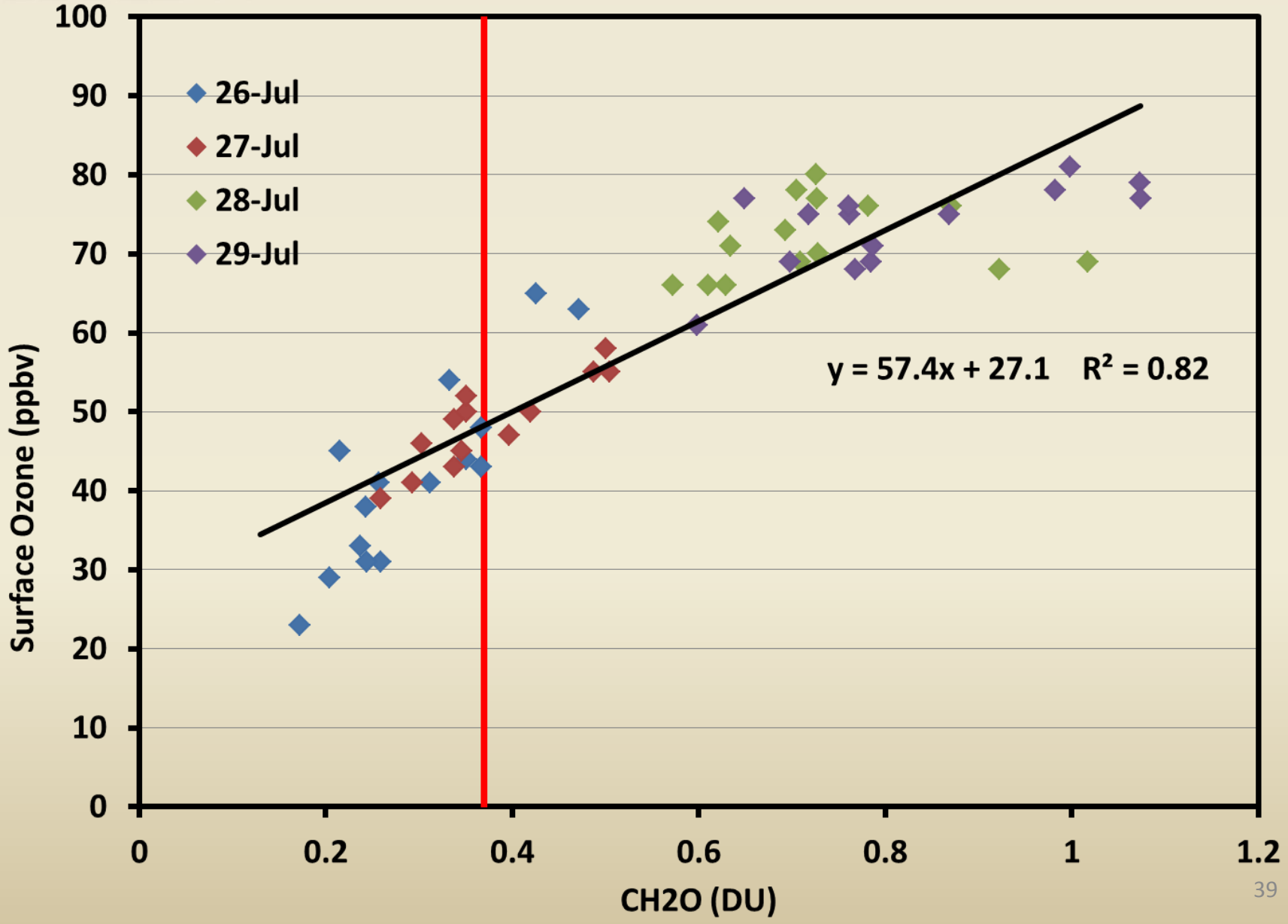
O_3 and CH_2O Integrated Columns (0.3 to 3.2 km altitude)



O_3 and CH_2O Integrated Columns (0.3 to 3.2 km altitude)

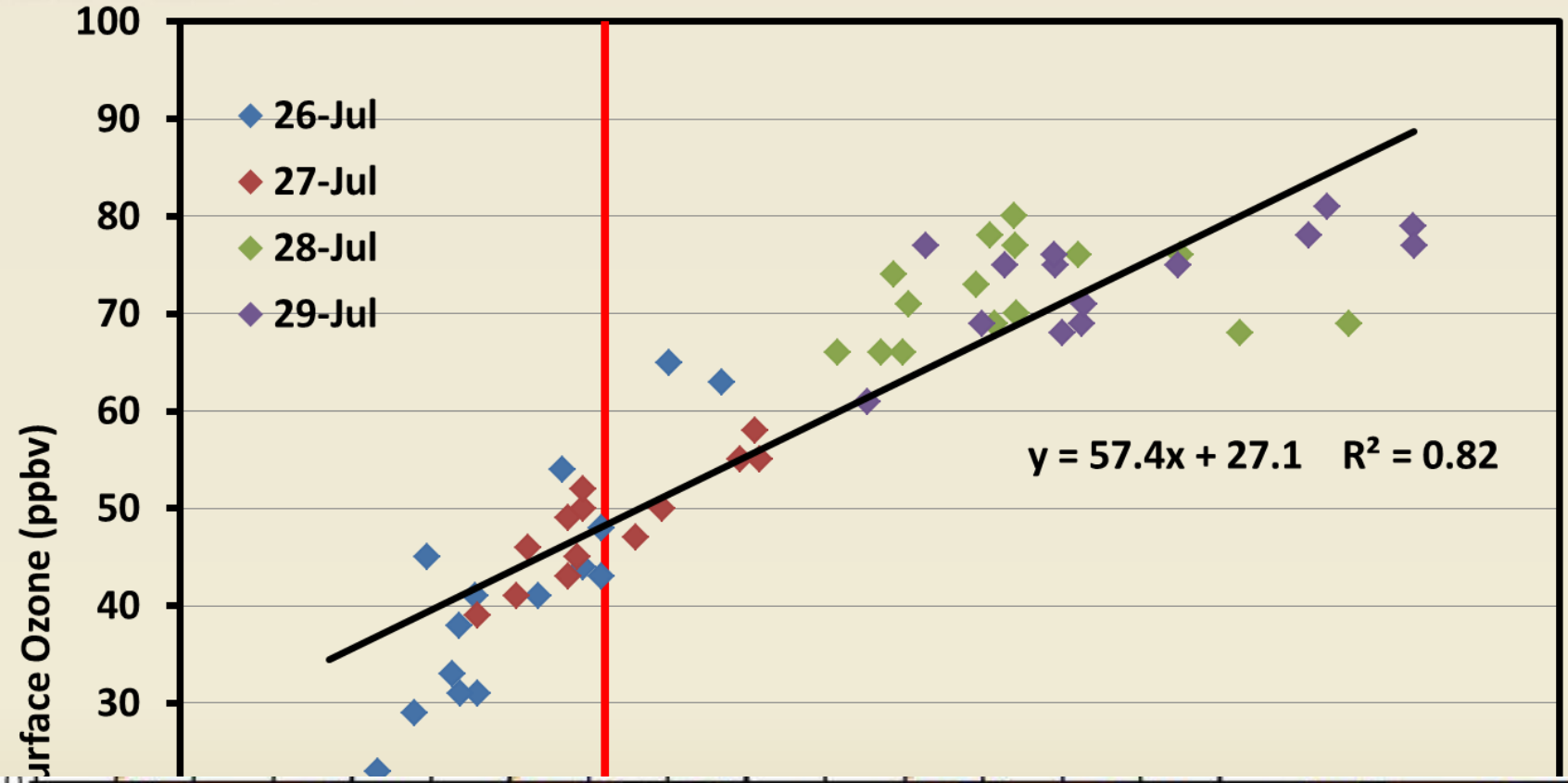


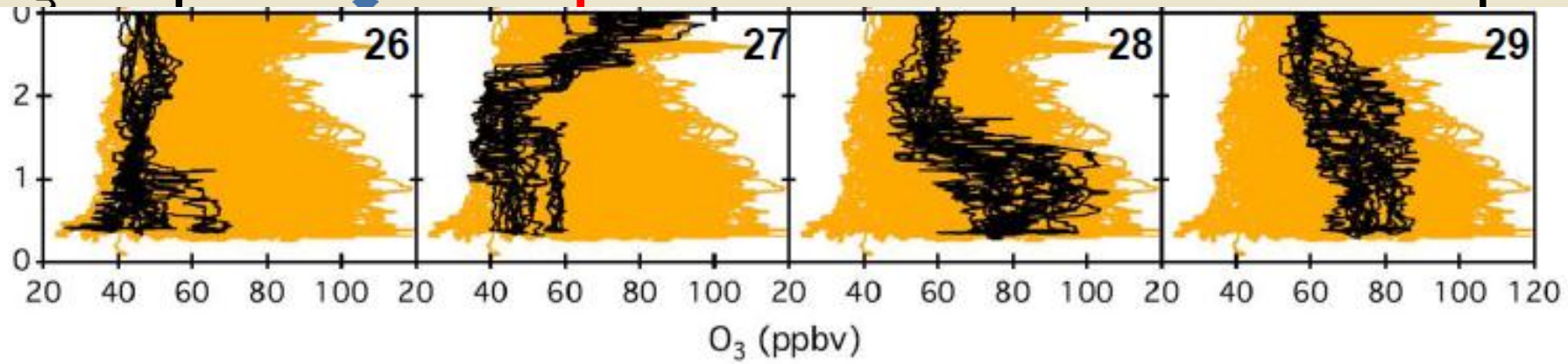
Surface O_3 and CH_2O Columns



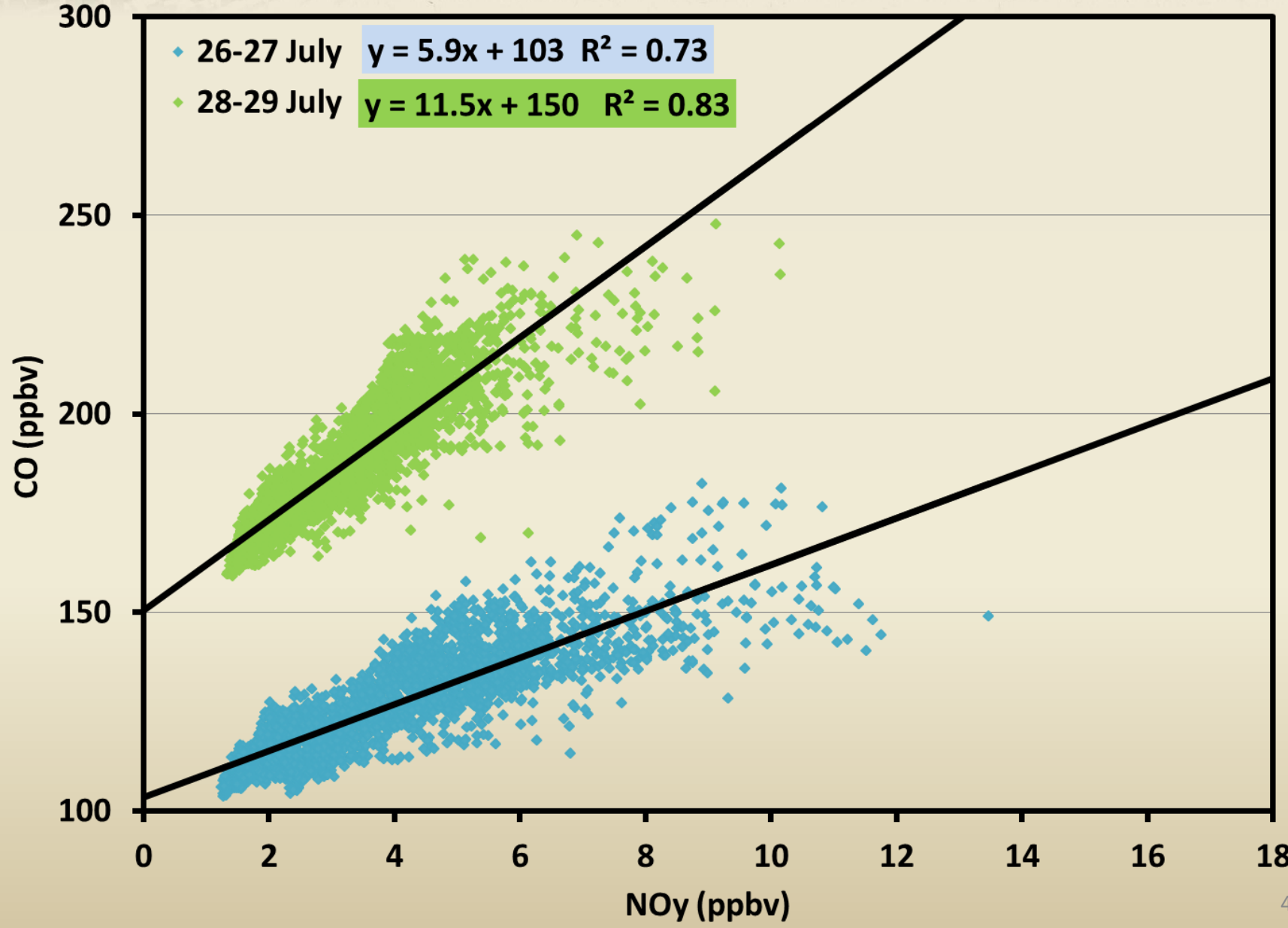
DISCOVER-AQ

Surface O_3 and CH_2O Columns





$CO:NO_y$ over I-95



$CO:NO_y$ over I-95