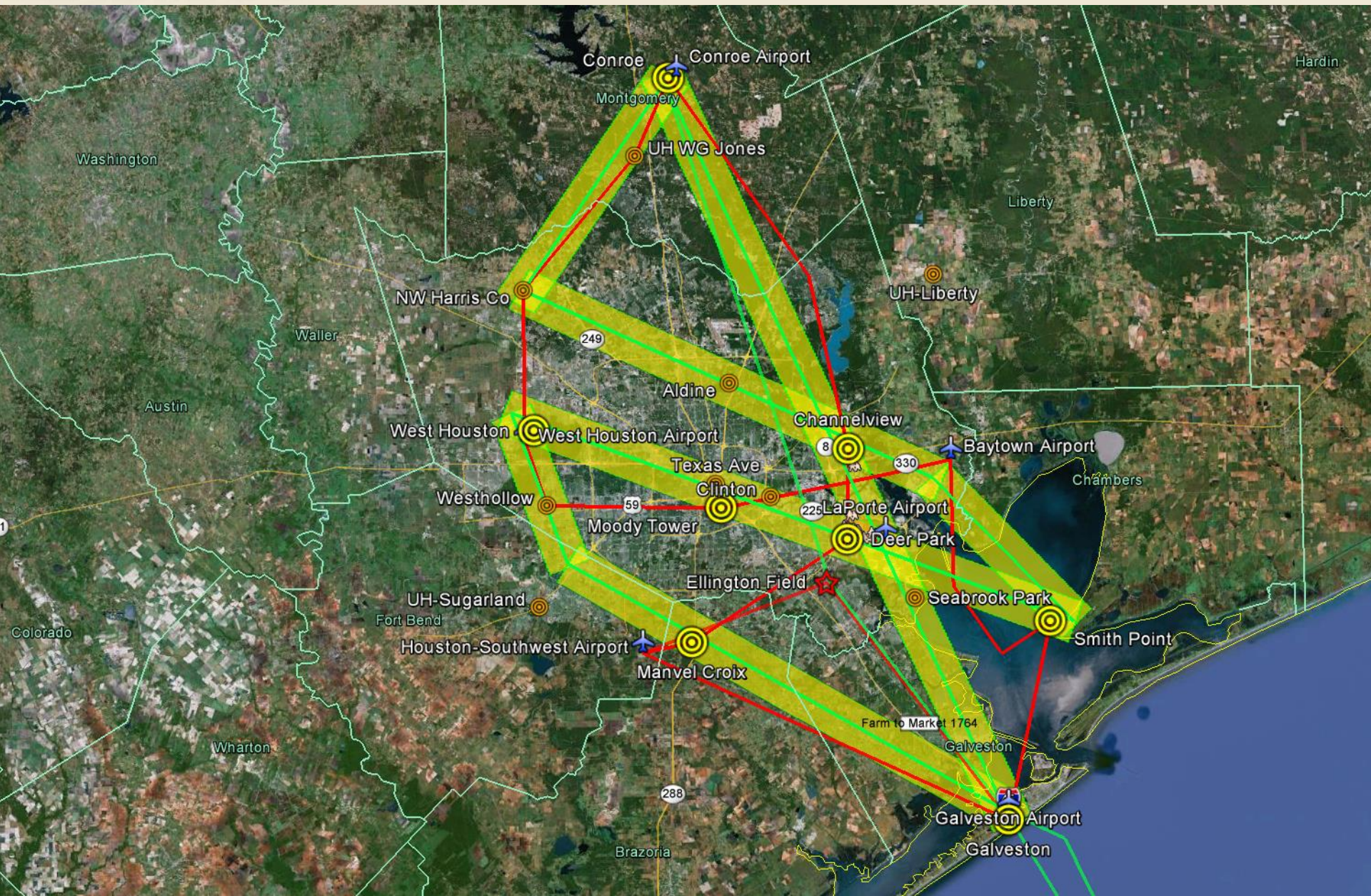
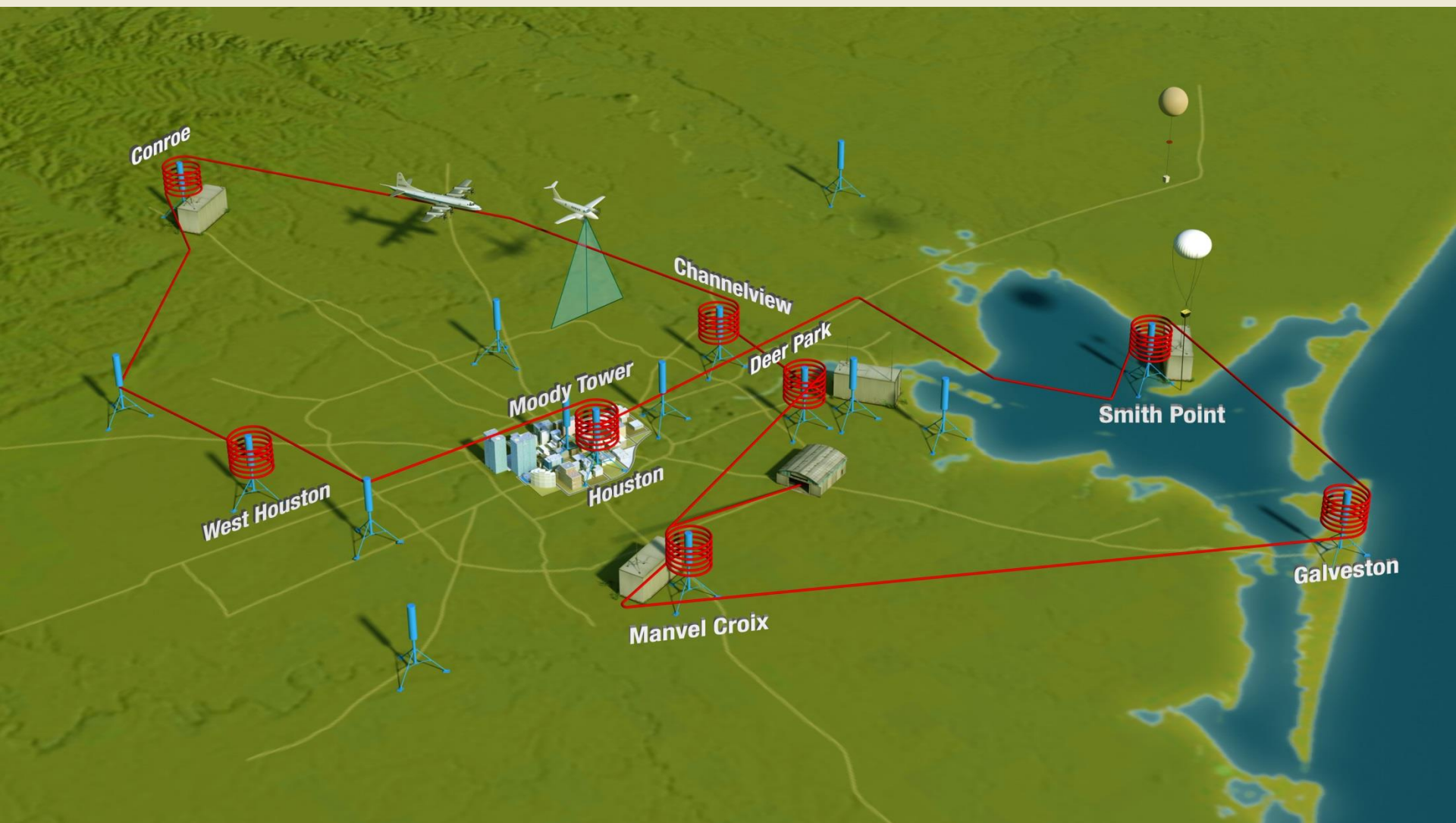




1. Houston Deployment Plans and Update
2. California data





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 NO ₂
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 NO ₂
Manvel Croix	Y	Y	Y	N	Y	NOAA NO ₂ , Baylor/Rice –neph and hi-vol samplers, NASA Ozone Lidar
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 NO ₂
Smith Point	Y	Y(2)	Y	N	N	NATIVE, Millersville, UMBC MPL, EPA-NO ₂ , 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

- **Current requirements have been determined and necessary work defined**
- **Moving forward is subject to approval of access agreements**
- **No new work being considered at this time (can pass requirements to Jim and Mary)**

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		
Clinton	Y	Y	N		
Conroe (Airport)	Y	Y	Y		
Deer Park	Y	Y	N		Hope to have scaffolding by 21 June, open for Aeronet/Pandora on 24 June
Galveston	Y	Y	Y		Hope to have scaffolding by 21 June, open for Aeronet/Pandora on 24 June
LaPorte Airport	N	N	Y		Site expansion can now proceed
Texas Avenue	Y	Y	N		Still negotiating details with Condo owners; need to talk to City about EPA NO2 measurement details
Manvel Croix	Y	Y	Y		Hope to have scaffolding by 21 June, open for Aeronet/Pandora on 24 June
Moody Tower	Y(2)	Y	N		
NW Harris Co	Y	Y	N		Hope to have scaffolding by 21 June, open for Aeronet/Pandora on 24 June
Seabrook Park	Y	Y	N		Hope to have scaffolding by 21 June, open for Aeronet/Pandora on 24 June
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



Smith Point Details



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

Rich is on a telecon with FAA and will join late if possible to answer any questions.

Power upgrade at Spoonbill RV Park has been invoiced to SSAI and is progressing smoothly.

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. You will receive an email from Rich with details...

"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."

A final decision has been reached on basing SEAC⁴RS in Houston...thanks to everyone for your patience.

Logistical Issues and Possible Efficiencies:

Travel – There will be two WBS accounts for civil servants and two tasks for contractors/grantees. You will need to be specific with Diane Zeimet regarding which project you are travelling under. Sometimes it may get a little messy, but teams should consider splitting their travel by personnel even if there is some overlap in duties.

The 30-day rule will need to be considered by those working both projects.

Badging – All badging requests for personnel in groups associated with both SEAC⁴RS and DISCOVER-AQ will be handled by ESPO. We will handle all requests for groups specific to DISCOVER-AQ only. Once we have all of your information compiled, we will remind you of who you need to coordinate with for badging needs.

It is critical to respond to the email from ESPO requesting you to update the database with accurate travel dates as soon as possible.

DISCOVER-AQ	SEAC ⁴ RS
Iq Mead (UK)	Armin Wisthaler (Italy)
Gregor Stewart (UK)	Tomas Mikoviny (Slovakia)
Detlef Mueller (Germany)	Markus Müller (Austria)
Eduard Chemyakin (Russia)	Phillipp Eichler (Germany)
Basak Karakut Cevik (Turkey)	Petter Weibring (Sweden)
Yu Jun Leong (Malaysia)	Suzanne Crumeyrolle (France)
Tara Yakovitch (Canadian)	Nikolai Balashov (Russia)
Christoph Senff (German)	Yonghoon Choi (South Korea)
Yunsoo Choi (South Korea)	
Paola Massoli (Italy)	
Ewan Crosbie (UK)	

Luci will only be assisting with badges for the names listed under DISCOVER-AQ.
If you have additional names, we need them ASAP

For those listed under SEAC⁴RS, please ensure that you have indicated ALL access requirements for both projects (e.g., Wallops)

ALL NASA-sponsored travel is under increased scrutiny and requires your name to be approved for travel through NASA, SSAI, or NIA. If your name is not on this list, then we need to hear from you regarding your team members and travel dates.

NOTE: Names highlighted in yellow are associated with research groups overlapping with SEAC⁴RS. Civil servants need to take care to charge the appropriate WBS and SSAI travelers need to stipulate with Diane Zeimet which project to assign your travel expenses.

NASA CS

Anderson	Bruce
Beyersdorf	Andreas
Burton	Sharon
Chatfield	Robert
Chen	Gao
Cook	Anthony
Crawford	James
Diskin	Glenn
Duncan	Bryan
Ferrare	Richard
Geiger	Jimmy
Harper	David
Hostetler	Chris
Janz	Scott
Kleb	Mary
Martin	Robert
Pickering	Kenneth
Rogers	Raymond
Thompson	Anne
Yang	Melissa
Ziemba	Luke

NIA - sponsored

Mead	Iq
Mikoviny	Tomas
Sachse	Glenn
Wisthaler	Armin

SSAI - sponsored

Abuhassan	Nader	Hudgins	Charles	Slate	Thomas
Aknan	Ali	Knapp	David	Stauffer	Ryan
Baier	Bianca	Kowalewski	Matthew	Stewart	Gregor
Balashov	Nikolai	Labow	Gordon	Thornhill	Kenneth
Barrick	John	Lin	Jack	Walega	James
Chemyakina	Eduard	Loughner	Christopher	Weibring	Petter
Choi	Yong Hoon	Martins	Doug	Weinheimer	Andrew
Cohen	Ronald	Massoli	Paola	Winstead	Edward
Crumeyrolle	Suzanne	McCullough	Kent	Wooldridge	Paul
Duffey	Kaitlin	Montzka	Denise	Xiong	Sam
Eichler	Philipp	Moore	Richard	Yacovitch	Tara
Floerchinger	Cody	Mueller	Detlef	Zweers	Deb
Flynn	Clare	Müller	Markus		
Fortner	Edward	Nault	Benjamin		
Fried	Alan	Niple	Edward		
Halliday	Hannah	Pusede	Sally		
Harward	Charles	Rana	Mario		
Herman	Jay	Richter	Dirk		
Herndon	Scott	Romer	Paul		
Hoff	Raymond	Roscioli	Rob		
Holloway	John				

Home	Science	Instruments	Participants	Planning	Data	Events	Education	Multimedia
PLANNING >> Baltimore-Washington, D.C. 2011 California 2013 Texas 2013 TBA 2014								

- Reports
- Forecasting
- Calendar**
- Hotel
- Logistics

DISCOVER-AQ

Today
 ◀
▶
 August 2013
 ▼

Print
 Week
Month
Agenda
▼

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	Aug 1	2	3
			CAR Instrument Install			
4	5	6	7	8	9	10
	Anderson (CAPS and LARGE), Cohen, Holloway, NSERC Upload				Yang Upload	
					Fried, Wisthaler Upload	
11	12	13	14	15	16	17
Yang Upload						
Fried, Wisthaler Upload				Diskin, Weinheimer, Barrick Upload		
	CAR Rack Upload					
18	19	20	21	22	23	24
Diskin, Weinheimer, Barrick Upload				P3B FIIR	P3B FRR	
25	26	27	28	29	30	31
	P3B ATP & ECF		P3B PCF	P3B MRR	P3B pack	
			Nominal King Air p	Nominal King Air s		



Accommodations during P-3B Integration and Download



Tourist season will still be in effect during P-3B integration making it difficult to obtain accommodations within the allowance.

The Wallops Lodging Facility has 9 rooms available throughout the integration and download periods for less than half the cost of a room in Chincoteague. These rooms are available to everyone except foreign nationals, who are required to live off base. **(Rooms are still available.)**

Reservations need to be made quickly to reserve these rooms. Please contact Debbie Toth at 757-824-1697 to make you reservation and identify yourself with the DISCOVER-AQ project.

(We will no longer be monitoring the situation in the dorms. If you are unable to get a dorm room and cannot find accommodation in Chincoteague at per diem, then you will need to stay in Pocomoke City, MD. It is much cheaper and only 20 minutes away versus 15 minutes for Chincoteague.)

We have secured a room block at the Homewood Suites at well below the per diem rate (\$99 per night versus \$109 per diem).

You should begin making your reservations now and identify yourself with the NASA DISCOVER-AQ project.

For those of you participating in both SEAC⁴RS and DISCOVER-AQ you may succeed in getting the lower rate for your entire stay, but it is not guaranteed.

If you are working on SEAC⁴RS only, we prefer that you not request to be part of the room block or seek accommodation elsewhere since we would like to preserve this preferred rate for DISCOVER-AQ.

SEAC⁴RS has a room block at this hotel for August only. If you overlap both experiments, you may need to identify BOTH room blocks to the hotel staff.

To help, Homewood Suites has requested that you make reservations through management (see next slide) rather than the front desk



Accommodations in Houston



Homewood Suites by Hilton-Houston Clear Lake

Phone: 281-486-7677

Ask for Teresa Simplot or Jason Lincoln and identify yourself with the DISCOVER-AQ room block for any further reservations!

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.

- As of June 13th, the following individuals have made hotel reservations under the Discover-AQ room block at the Homewood Suites:***

Barrick	Flynn	Mueller, M.
Beyersdorf	Geiger	Pickering
Burton	Harper	Rogers, Ray
Cook	Herndon (4 rooms)	Sachse
Crawford	Hoff	Thornhill
Crittenden	Hostetler	Weinheimer
Duncan	Kowalewski	Wisthaler
Eichler	Knapp	Yang
Ferrare	Montzka	Yates (7 rooms)
Finneran	Moore	B200 Crew (4 rooms)

Space will be at a premium at Ellington Field. These responses on the need for tables need clarification. Please verify and respond to any comments in the table below.

Requester	Tables	Chairs	Comment
Barrick	1	2	Looks OK
Beyersdorf	4	6	Is this for both DAQ 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 DAQ and SEAC4RS (prefer 1 st floor)
Fried	2	4	Satisfies requirements for both DISCOVER-AQ and SEAC4RS
Hoff	1	1	This table will be for Ray and other visitors (3 more chairs needed)
Hostetler	4	7	Need to reduce this, does it include tables by the aircraft?
Janz	3	3	One of these tables is next to the King Air on the hangar floor
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



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

- *Anyone who plans to function as an operator of an instrument on the P-3 and needs to fly on a regular basis needs to let Luci Crittenden know ASAP since current medicals and egress briefings will need to be confirmed*
- *Anyone who plans to fly on the P-3 on a one or two day basis only while in the field – Luci will handle your required paperwork a day prior to your flight*
- *We need to identify those who will be flying on the transit from Wallops to Ellington on the P-3. Please let Luci know ASAP, so paperwork and seat counts can be ascertained*



Houston Deployment Schedule



NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION

SEARCH NASA



Home Science Instruments Participants **Planning** Data Events Education Multimedia

PLANNING >> Baltimore-Washington, D.C. 2011 | **California 2013** | Texas 2013 | TBA 2014

Reports

Forecasting

Calendar

Hotel

Logistics

DISCOVER-AQ

Today

September 2013

Print

Week

Month

Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sep 1	2	3	4	5	6	7
	Transit to Houston	Media Day	Nominal 1st science			
8	9	10	11	12	13	14
	Nominal ship cruise					
15	16	17	18	19	20	21
	Nominal ship cruise					
22	23	24	25	26	27	28
	Nominal ship cruise					
29	30	Oct 1	2	3	4	5
		Return to WFF&Lal				

Events shown in time zone: Eastern Time

Google Calendar

Events shown in time zone: Eastern Time



- Unlike California, we will not need to introduce margin into the schedule for fog. Therefore, we have a much firmer schedule.
- 2 Sep - Transit to Houston
- **3 Sep - Media Day**
- 4 Sep - First possible science flight
- 1 Oct - Return to WFF
- The rest of the calendar will be constructed around these key dates.



Data Deadline for California – 15 June



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.

If there are any issues that will prevent you from meeting the data submission deadline, please contact Jim and Mary as soon as possible.

Data Synchronization (based on DLH data) will still be an issue for P-3B investigators. **Investigators are encouraged to go ahead and make this shift using the preliminary DLH data already on the archive since the variability in water vapor is the essential piece of information rather than absolute magnitude.**

The archive will become open to the public on 17 June. Preliminary data files will be removed. Please continue to submit data as it becomes available.

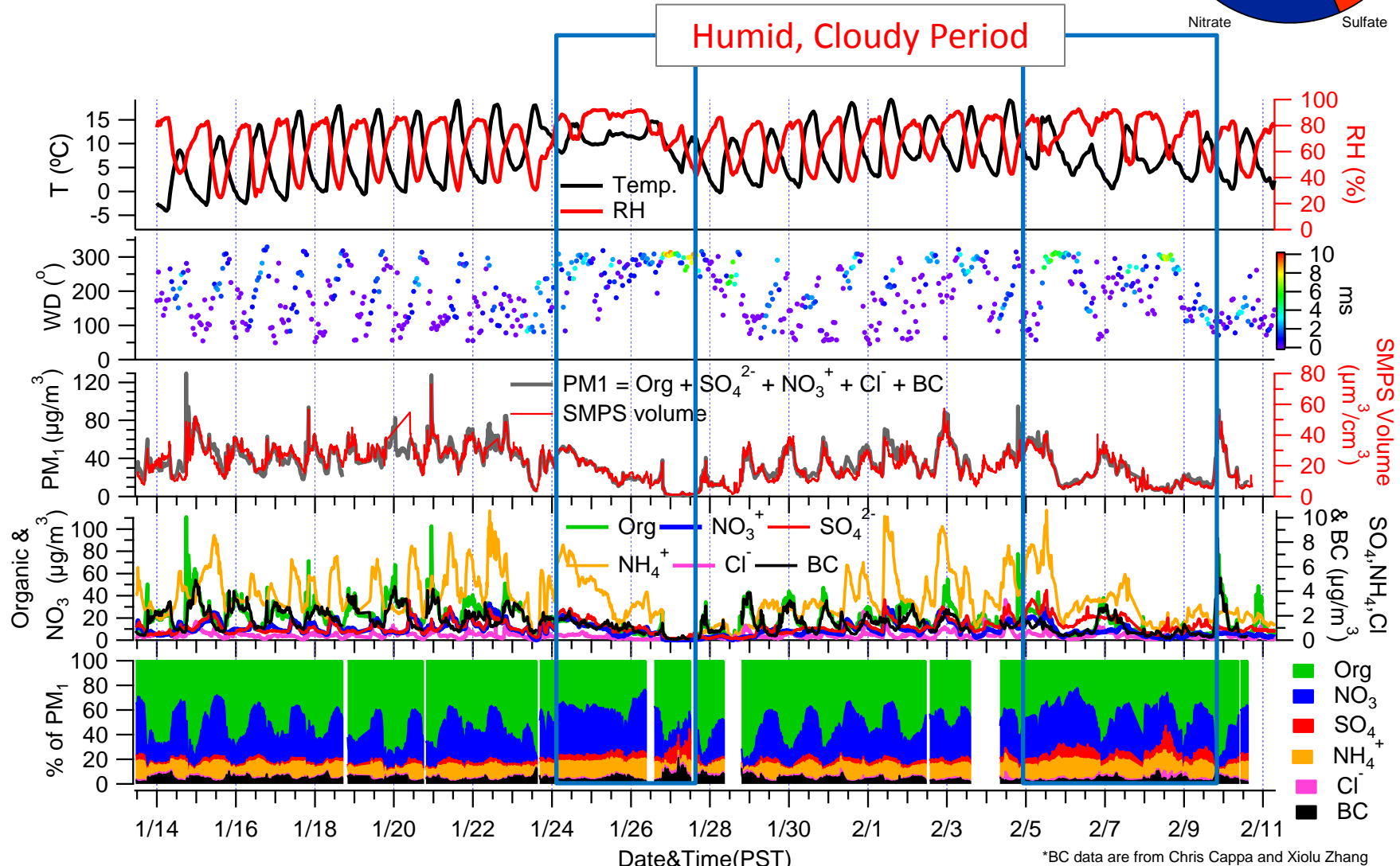
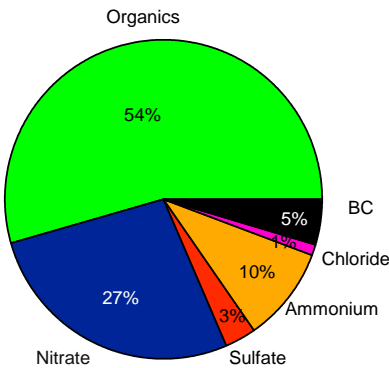
Characterization of the Chemical Composition and Sources of PM₁ at Fresno, CA, with a HR- ToF-AMS and SMPS

Hwajin Kim, Shan Zhou, Caroline Parworth, Qi Zhang

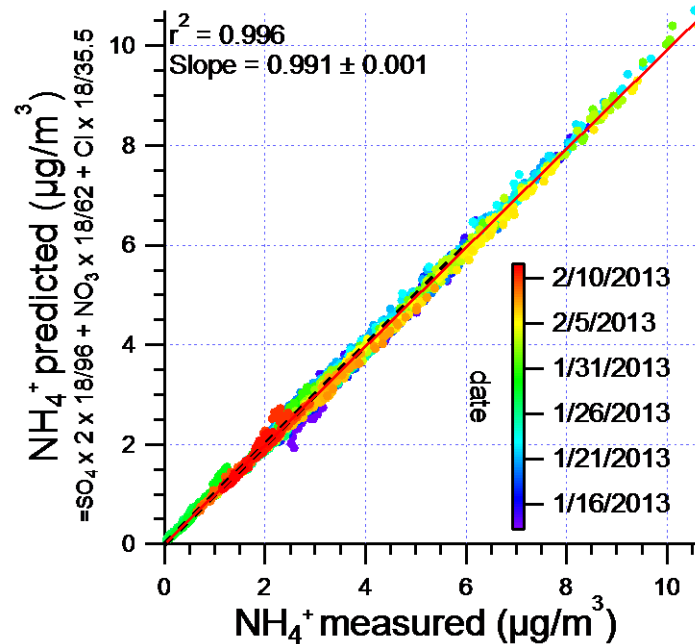
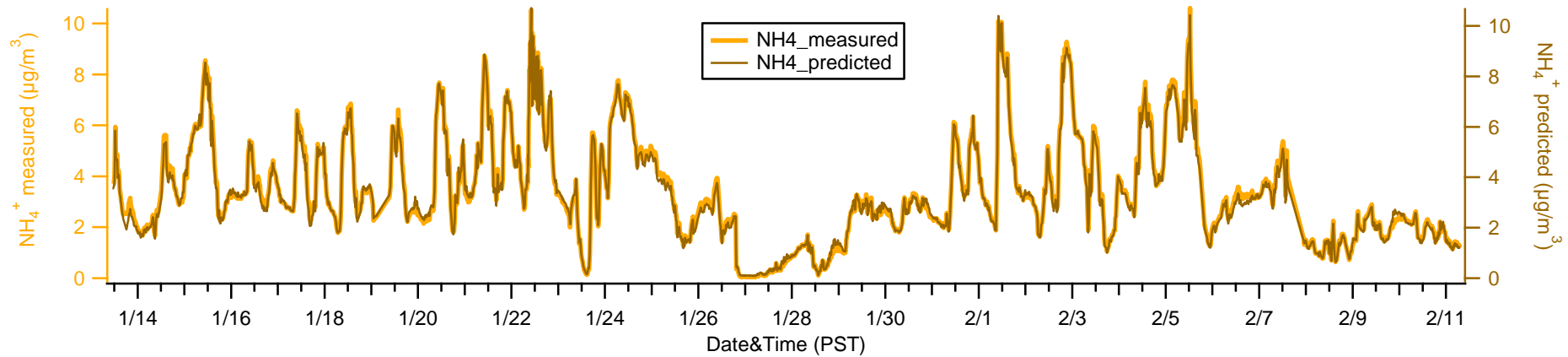
UC DAVIS

Temporal variations of species and meteorology

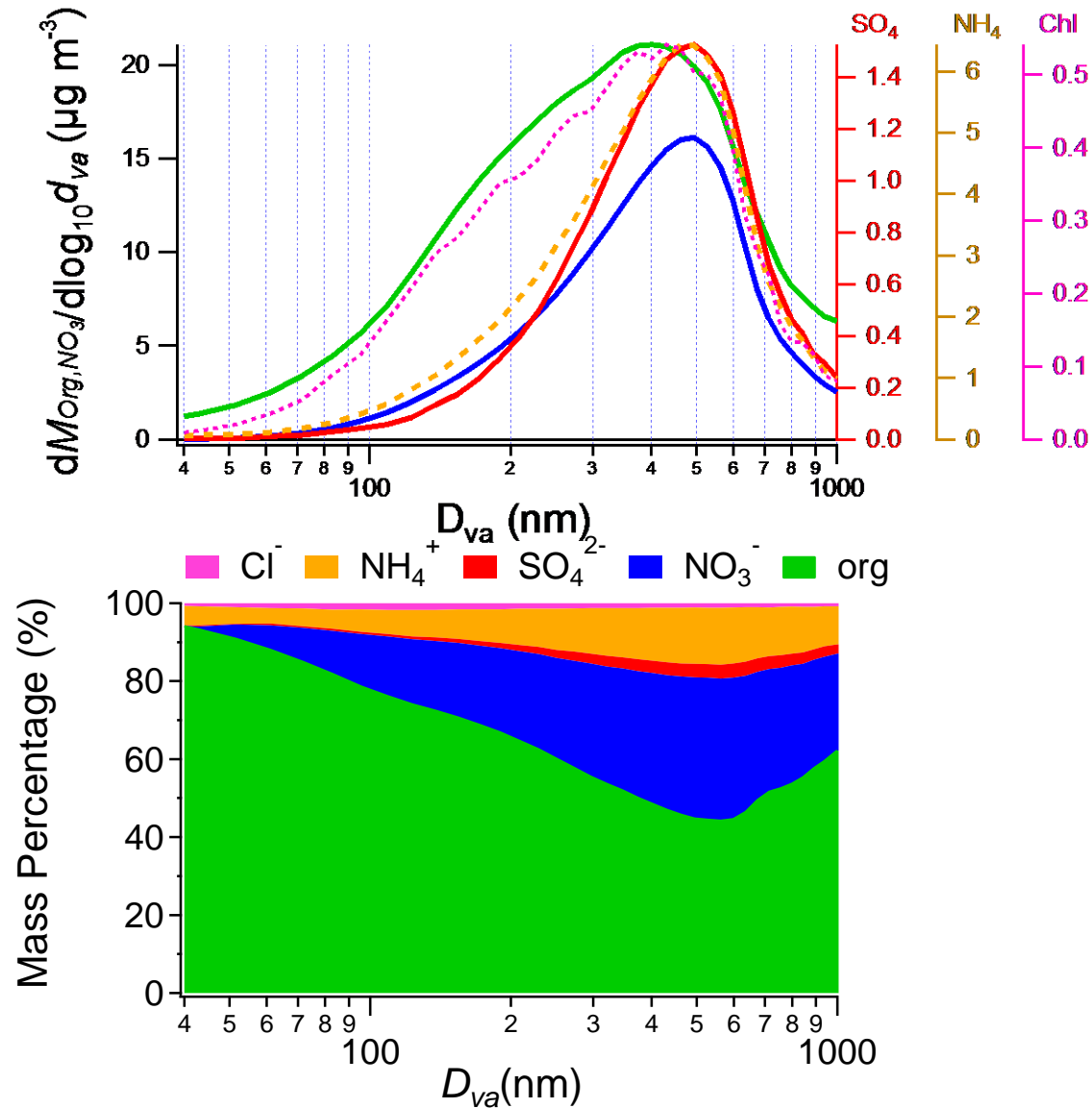
Avg. PM₁; 31.13 $\mu\text{g}/\text{m}^3$



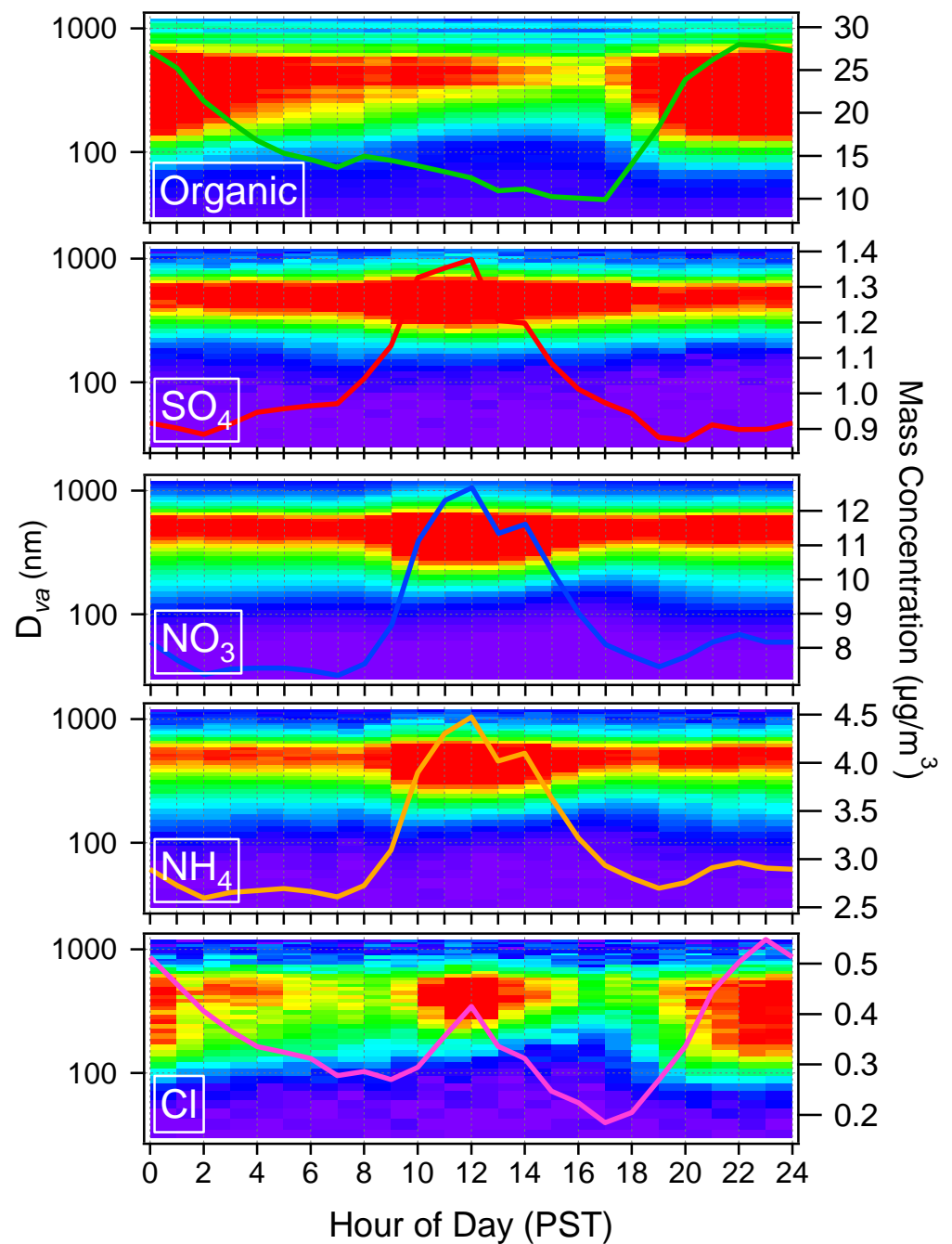
PM₁ Neutralization; Well neutralized



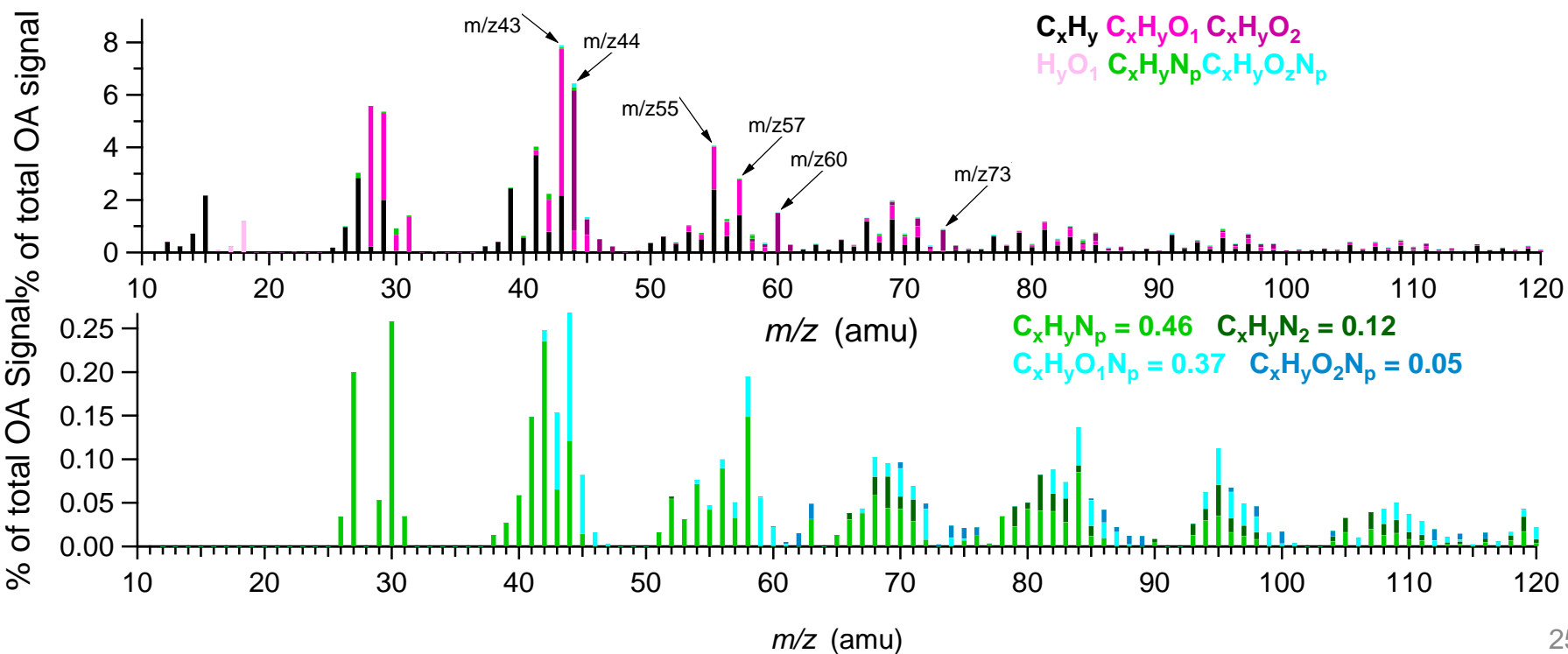
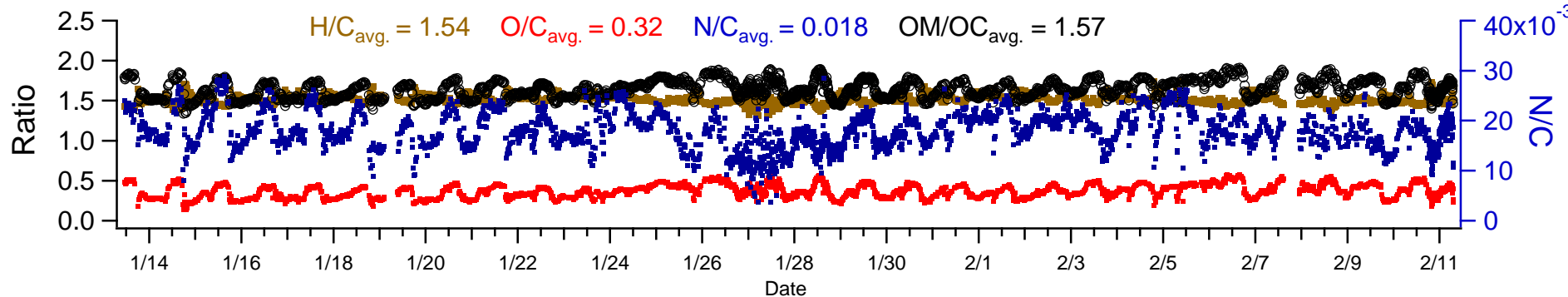
Size-resolved chemical composition



Diurnal profile of size distribution



— Elemental composition in the organic aerosol



— Diurnal pattern of fraction of signature ions.

