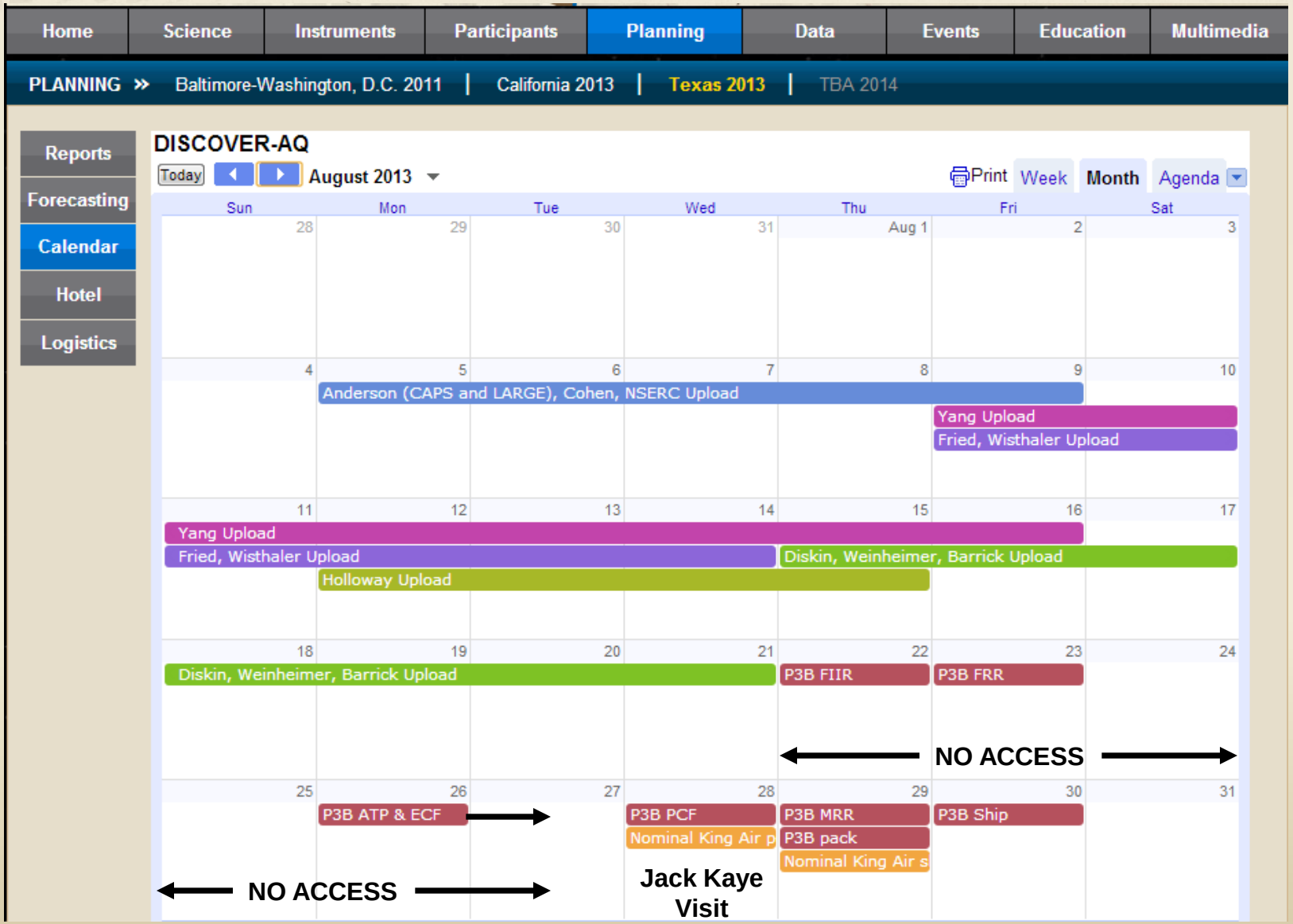
Webex Agenda, 22 August 2013

1. Houston Deployment Progress and Update

2. News regarding our deployment in 2014

P-3B Integration Schedule



Upload activities will include both weekdays and weekends

Ground Site Status

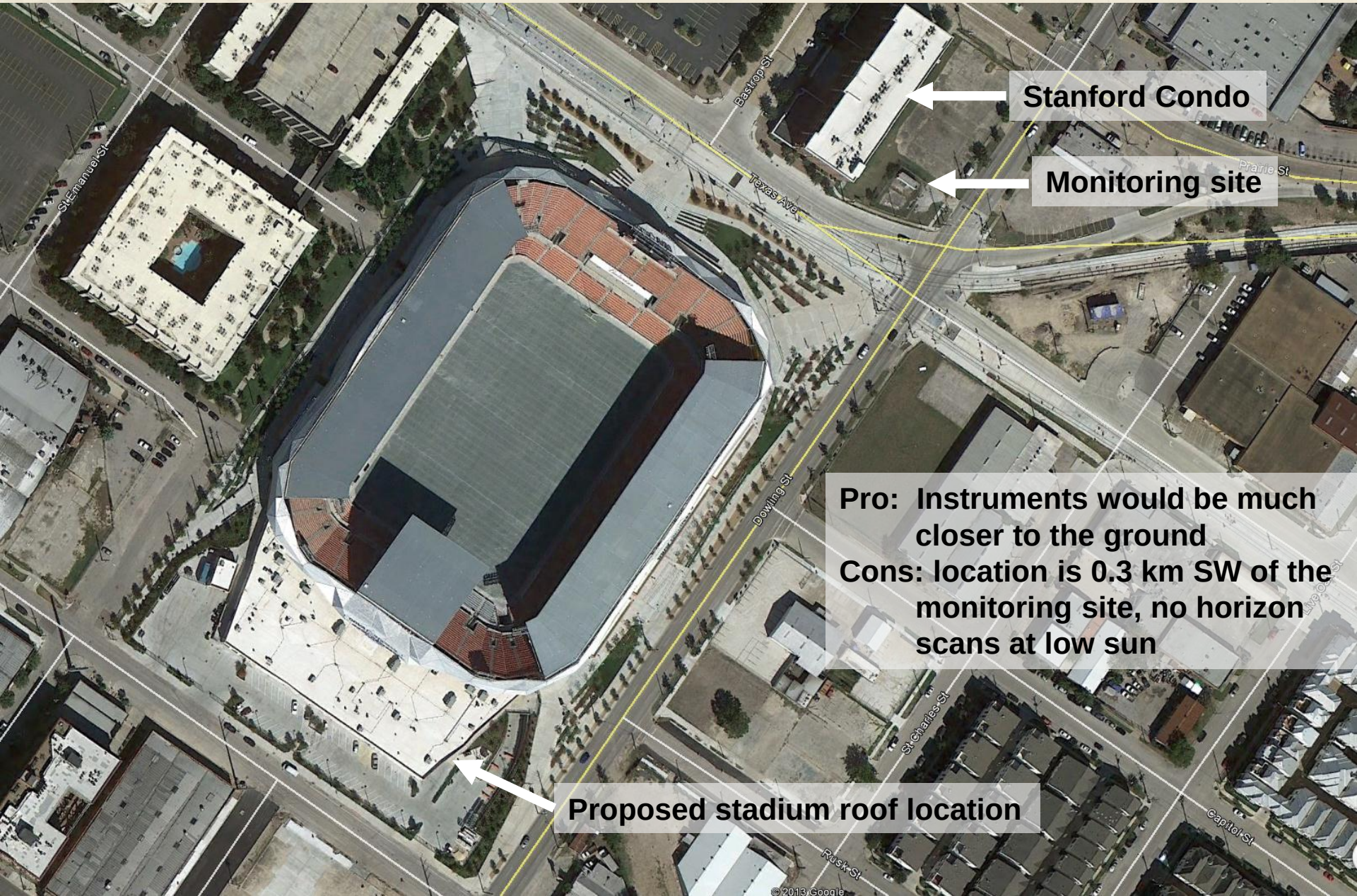
Site Name	Pandora Y/N	Aeronet Y/N	Mobile Hook-up	Access Granted?	Comments
Aldine	N	Y	N		Aeronet negotiating directly with school for rooftop emplacement
Channelview	Y	Y	Y		Scaffolds ready and other work still pending
Clinton	Y	Y	N		
Conroe (Airport)	Y	Y	Y		Scaffolding in place, other work still pending
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		Have opened negotiations with stadium, condos have declined; 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

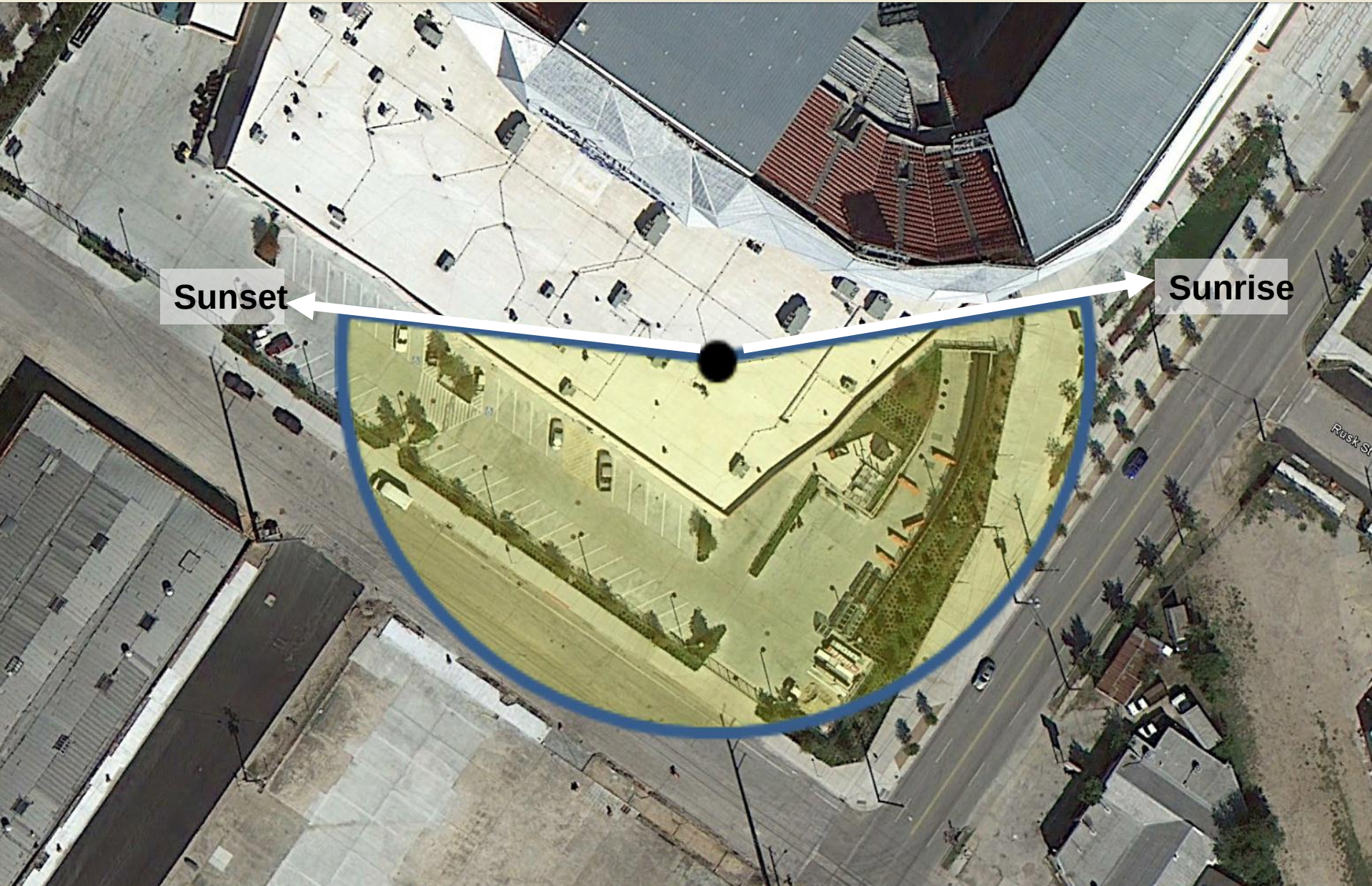
Initial site visits need to be coordinated with Jim Thomas (jwinthomas@embarqmail.com) and Raj Nadkarni (Raj.Nadkarni@tceq.texas.gov). The project will provide lock access codes for subsequent visits.

Texas Avenue - alternate site for Pandora and Aeronet at BBVA Compass Stadium



DISCOVER-AQ

Sensors should be fine if located anywhere inside the yellow fan…



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.

Small Sensors

Each school now has at least one Cairclip and AQMesh sensor. Additional Cairclip sensors are being secured and will arrive in Houston on 29 August. Russell Long will deliver these units so that schools will have units for both NO2 and NO2+O3.

Melissa Yang (NASA) and Rachelle Duvall (EPA) will be working together to help us support the schools through the online tools and in-person visits. We are looking for volunteers who would like to participate in the school visits. Please contact them if you are interested.
(Melissa.Yang@nasa.gov; Duvall.Rachelle@epa.gov)

The following slides identify the participating schools and show the sensor emplacements. The location of the schools with respect to the other ground monitors and flight paths are contained in the current Google Earth kmz for the project.

Deer Park High School North Campus

Deer Park High School North Campus

Deer Park Elementary School

JP Dabbs Elementary School

College Park Elementary School

DeZavala Elementary School

Heritage Elementary School

Deer Park Monitoring Site
(TCEQ site)

Lomax Junior High School

DISCOVER-AQ

NATIVE Trailer Shipment
(arrives at Smith Point next Tuesday)

Mobile Lab Operations

The Homeland Security letter is complete and undergoing review at TCEQ. 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.

Potential sampling routes for flight days have been developed (see following slides)

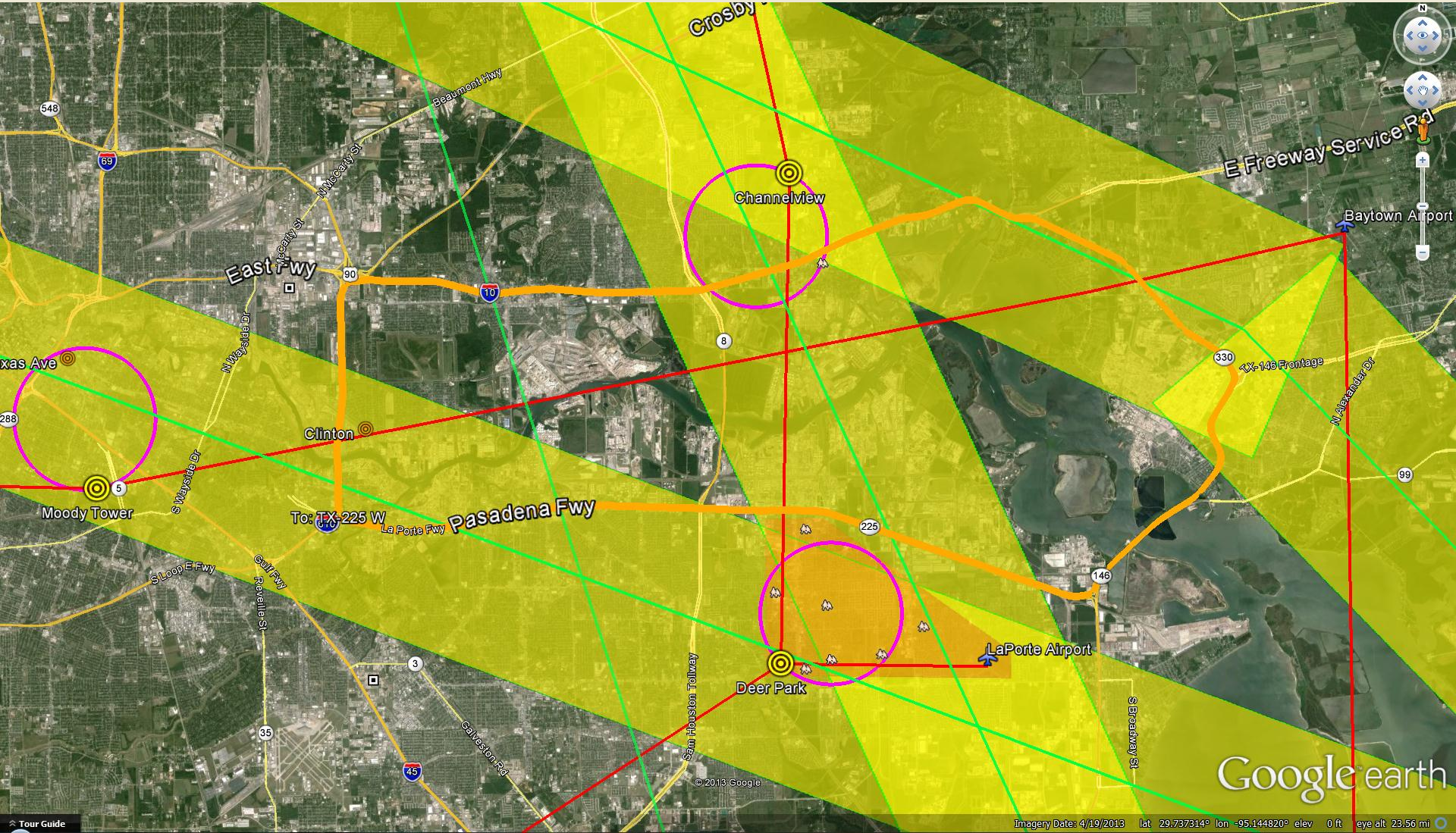
Channelview – Deer Park (Aerodyne)
Manvel Croix – Galveston (NASA LARGE)
Conroe – NW Harris Co (University of Houston/Rice)

Next telecon tomorrow at noon (eastern time).

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

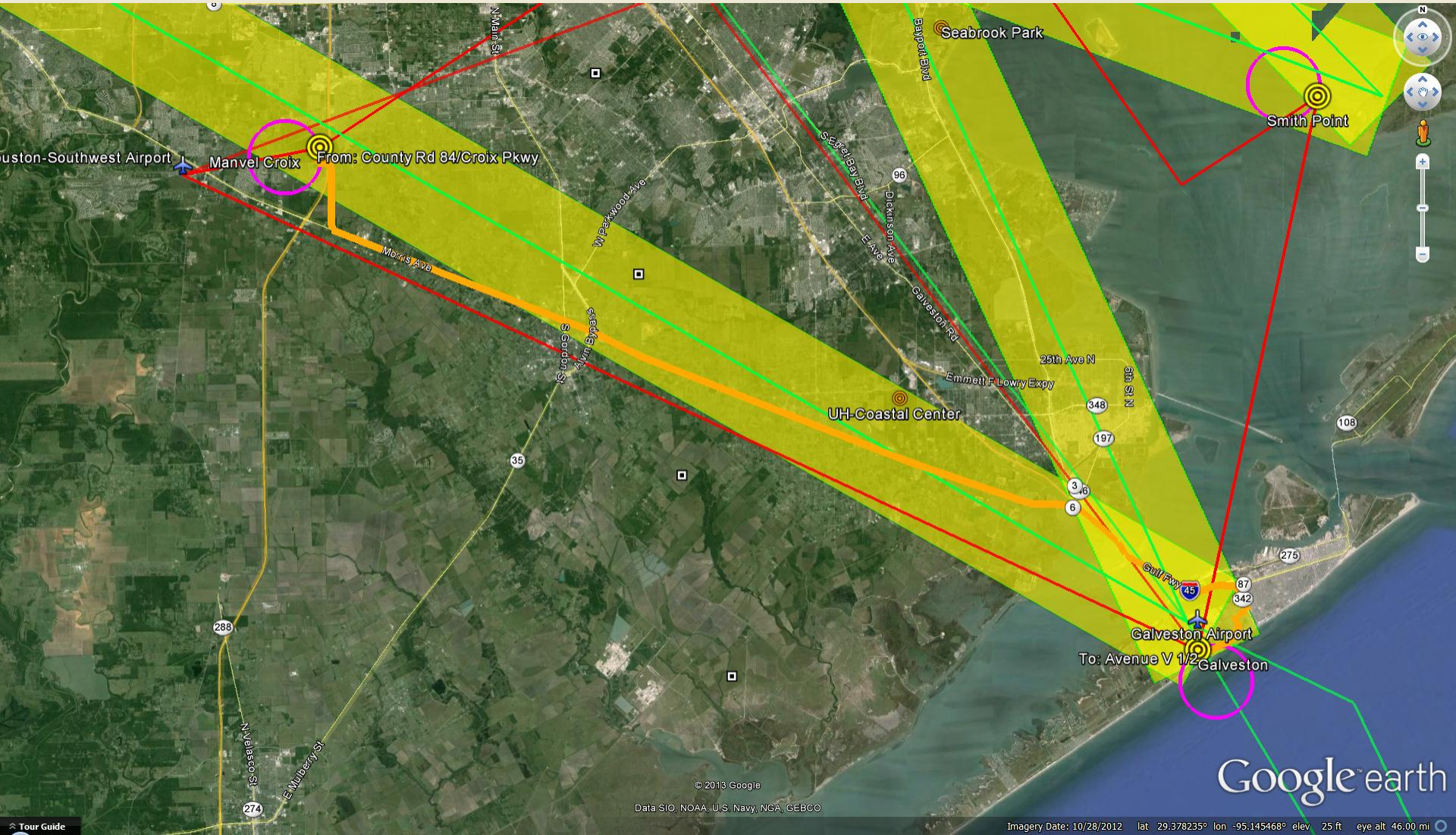
DISCOVER-AQ

SOF Loop
42 miles / 39 min (est)
(route marked in orange)



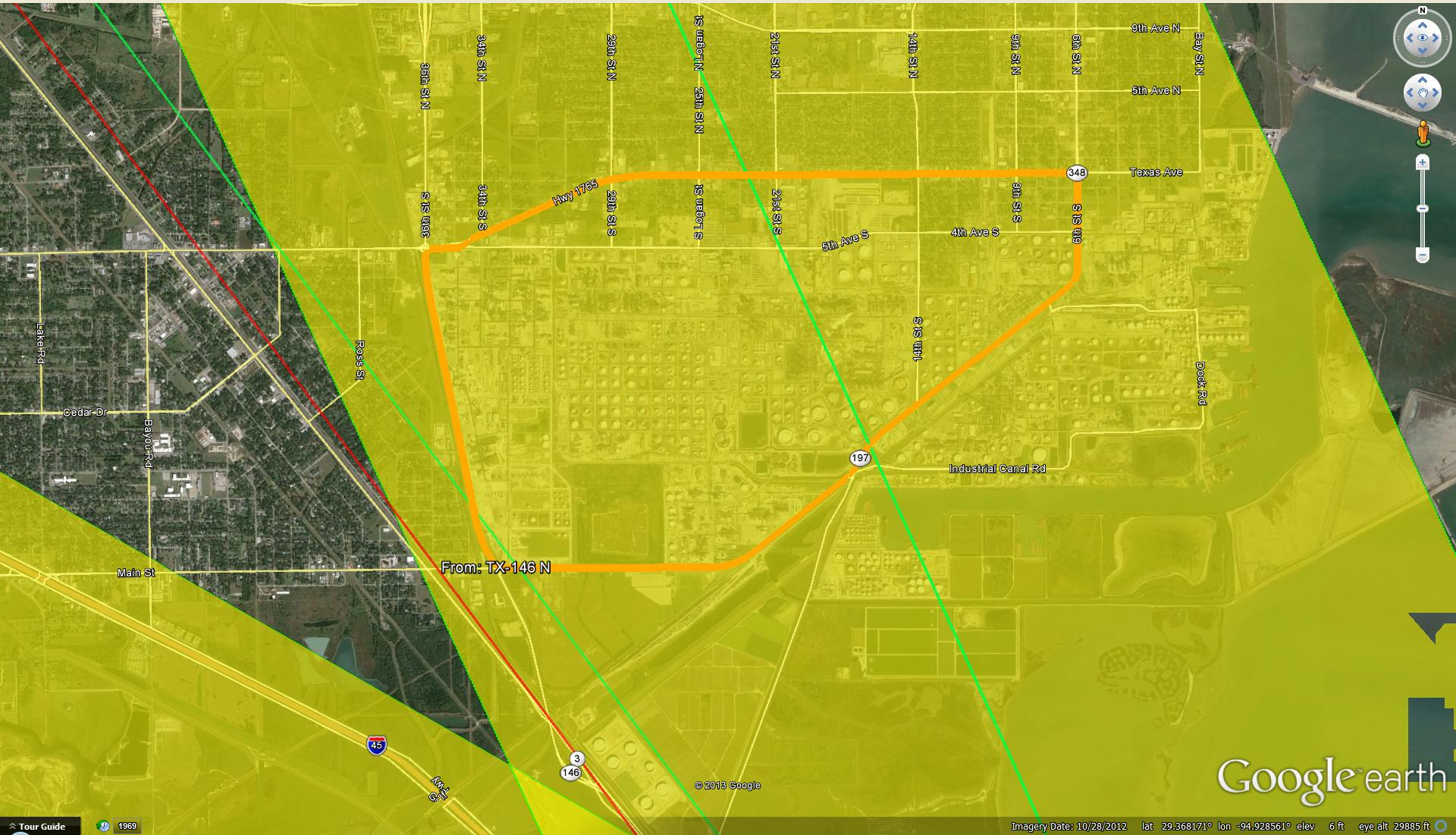
DISCOVER-AQ

Manvel Croix - Galveston
44 miles / 63 min (est)
(route marked in orange)



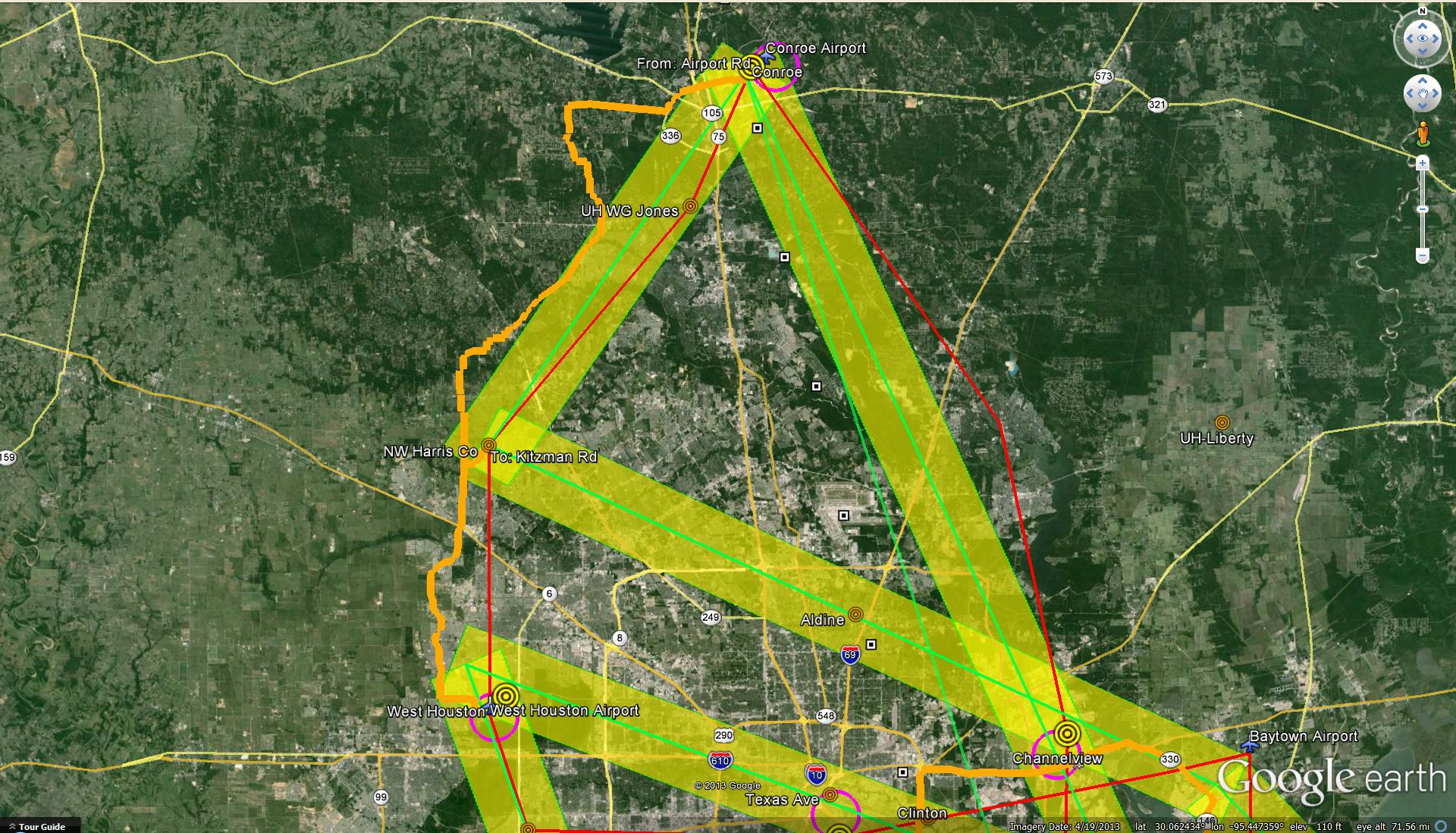
DISCOVER-AQ

Texas City Loop
8 miles / 15 min (est)
(route marked in orange)



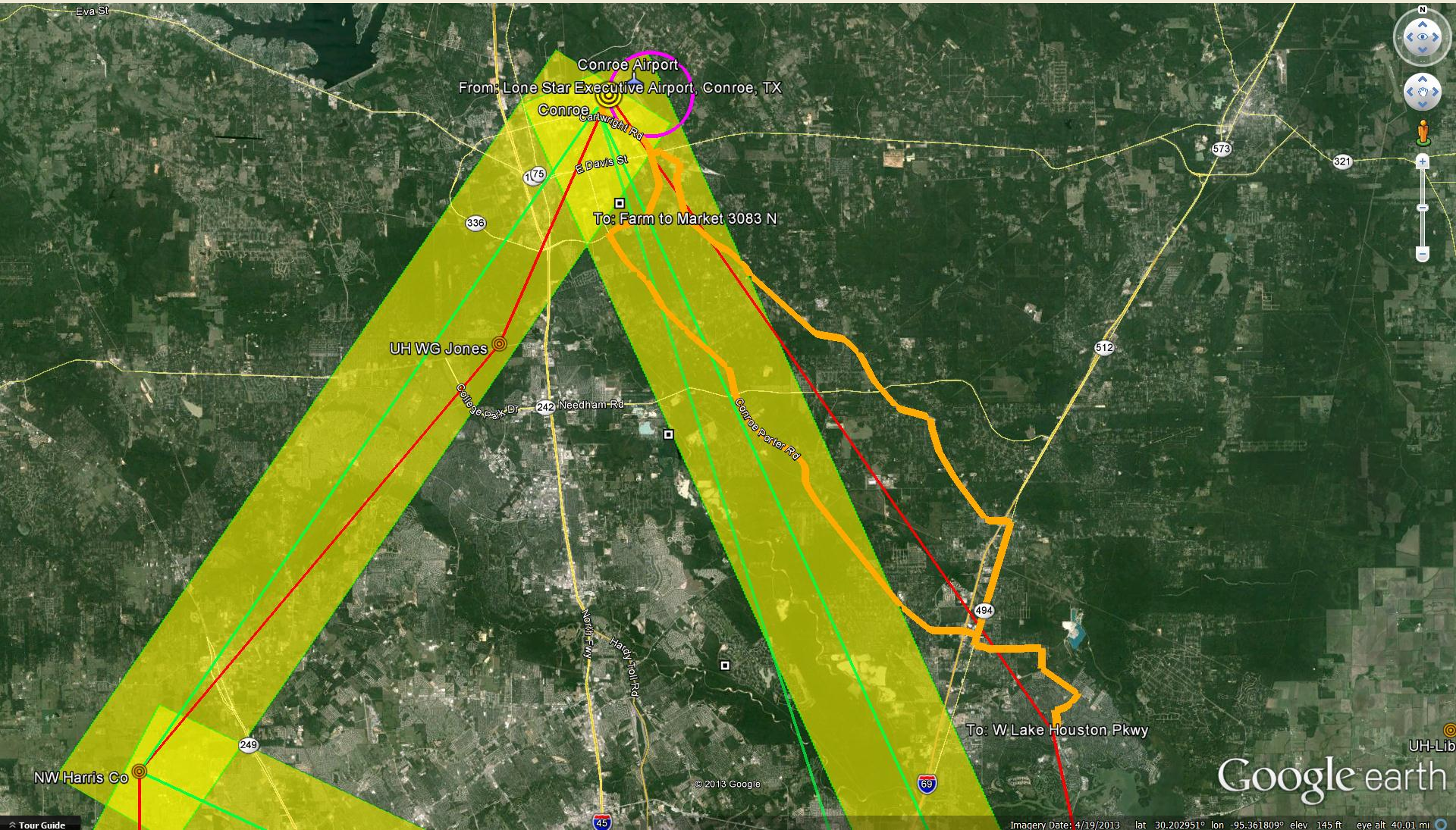
DISCOVER-AQ

NW Houston
61 miles / 1 hr 52 min (est)
(route marked in orange)



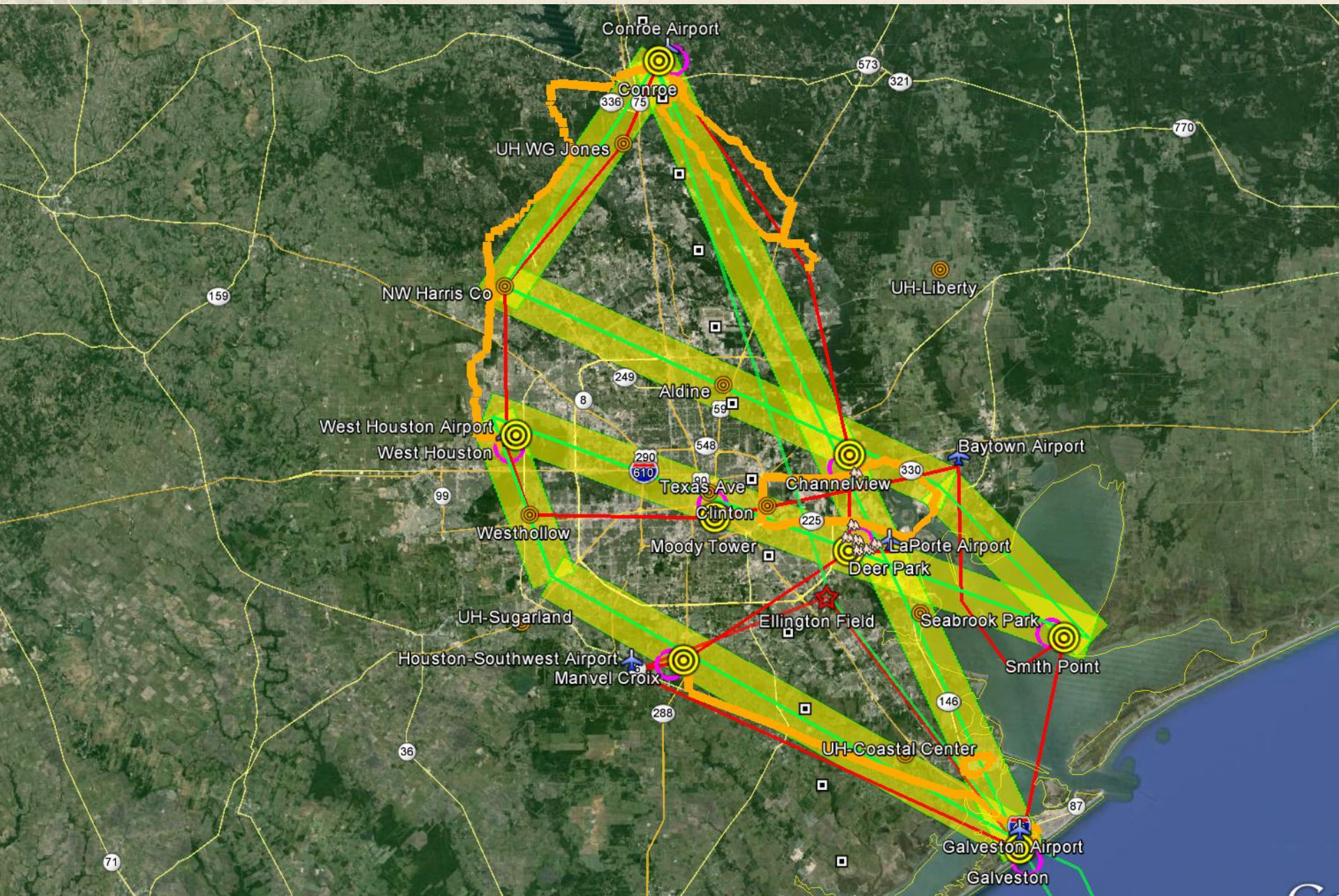
DISCOVER-AQ

Kingwood Loop (NE Houston)
62 miles / 1 hr 38 min (est)
(route marked in orange)

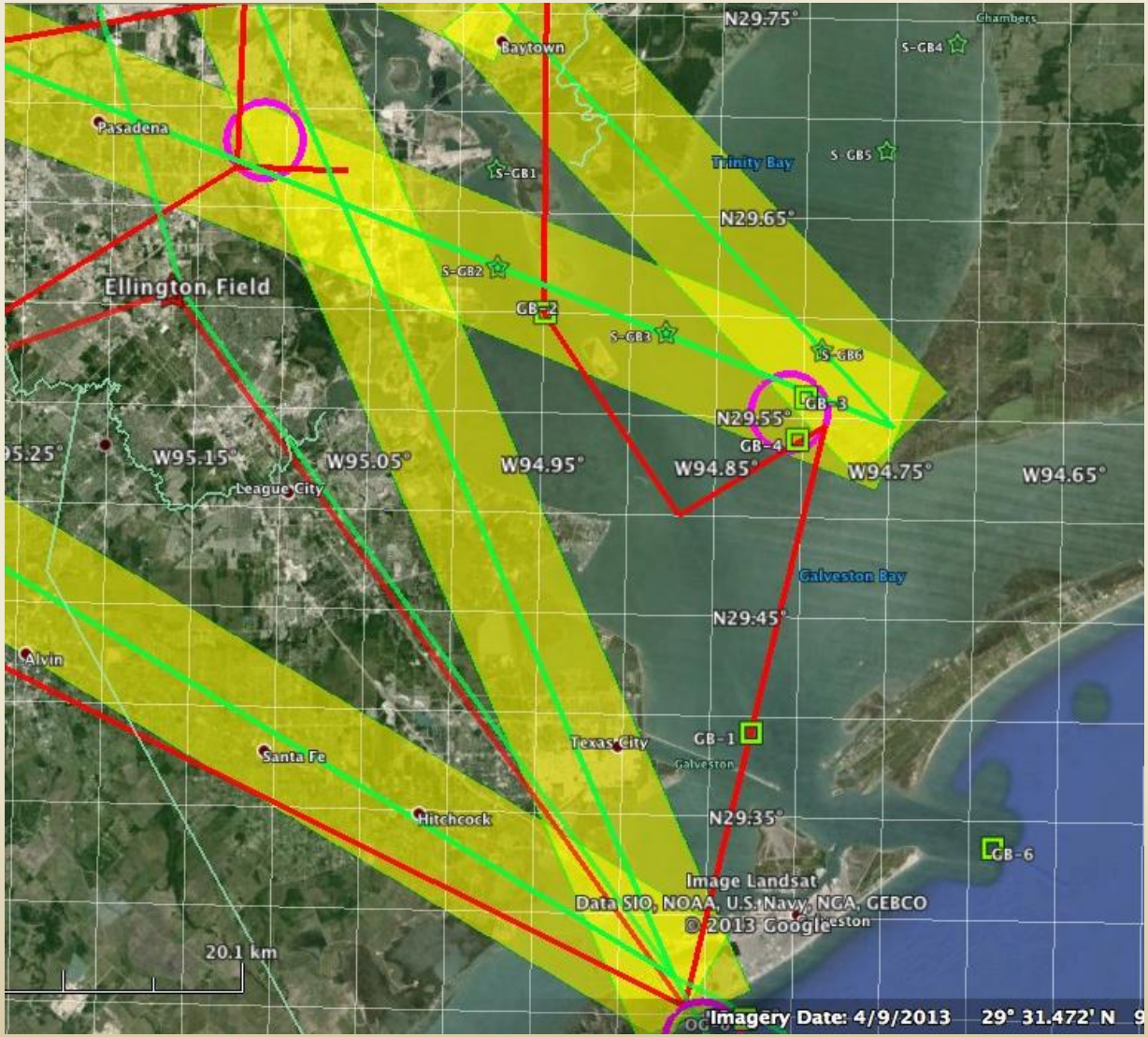


DISCOVER-AQ

Observing Strategy for Houston



Ship Stations in Galveston Bay



Squares = Large vessel with full complement of oceanographic and atmospheric measurements

Stars = Small boat with only water samples and in-water radiometry

We have been requested to consider possible alteration to the King Air flight pattern on the few days when the ship is in the bay.

No comments received yet.

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

Current P-3B Schedule and Considerations

8/26
Aircraft walk-though and weigh-in: once Martin has the payload weight, he can answer your questions regarding luggage allowances for the transit. **Expect an email from him on Monday afternoon about this.**

8/27
ECF currently scheduled for a 9 am takeoff, landing around 10, access for scientists no later than 11.

Flight Safety Brief: In the interest of optimizing time, we would like to complete the safety brief during the ECF. **Can everyone be at Wallops for a 10:30 – 11:00 safety brief?**

Assuming access at 11am, **how long do we want aircraft access?** Keep in mind the PCF on the next day.

8/28
PCF tentatively scheduled for 8am power on, 11am takeoff, and land by 2pm
(Are folks comfortable with that schedule? Other thoughts?) Also, Jack Kaye will visit us on that day.

8/29
Pack Day: Everything needs to be packed by the end of the day

8/30
Truck loaded in the early AM and heads to Langley for an afternoon pickup of additional equipment.

9/2
Transit Flight – measurements optional…**do folks still want a 3-hour pre-flight?**
We are flexible on takeoff since the flight is direct and short (~3.5 hours), although I would like to suggest adding time at the end to allow pilots to get a visual on the ground sites in Houston.
Suggestions on a takeoff time are welcome.

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.

Final Deployment in 2014

Colorado approved $2M funding for NCAR's FRAPPE study collaborating with us along the Front Range area in the summer of 2014.

NSF must still make a decision on whether to fund the use of the C-130 and facility measurements.

This dramatically raises our chances of operating in Colorado with colleagues from NSF and NOAA in 2014.

Hats off to Frank Flocke and Gabi Pfister for their persistence and commitment to secure the necessary support to make this possible.

We will keep you informed as things progress. Exact dates and that sort of information are still not yet available.