

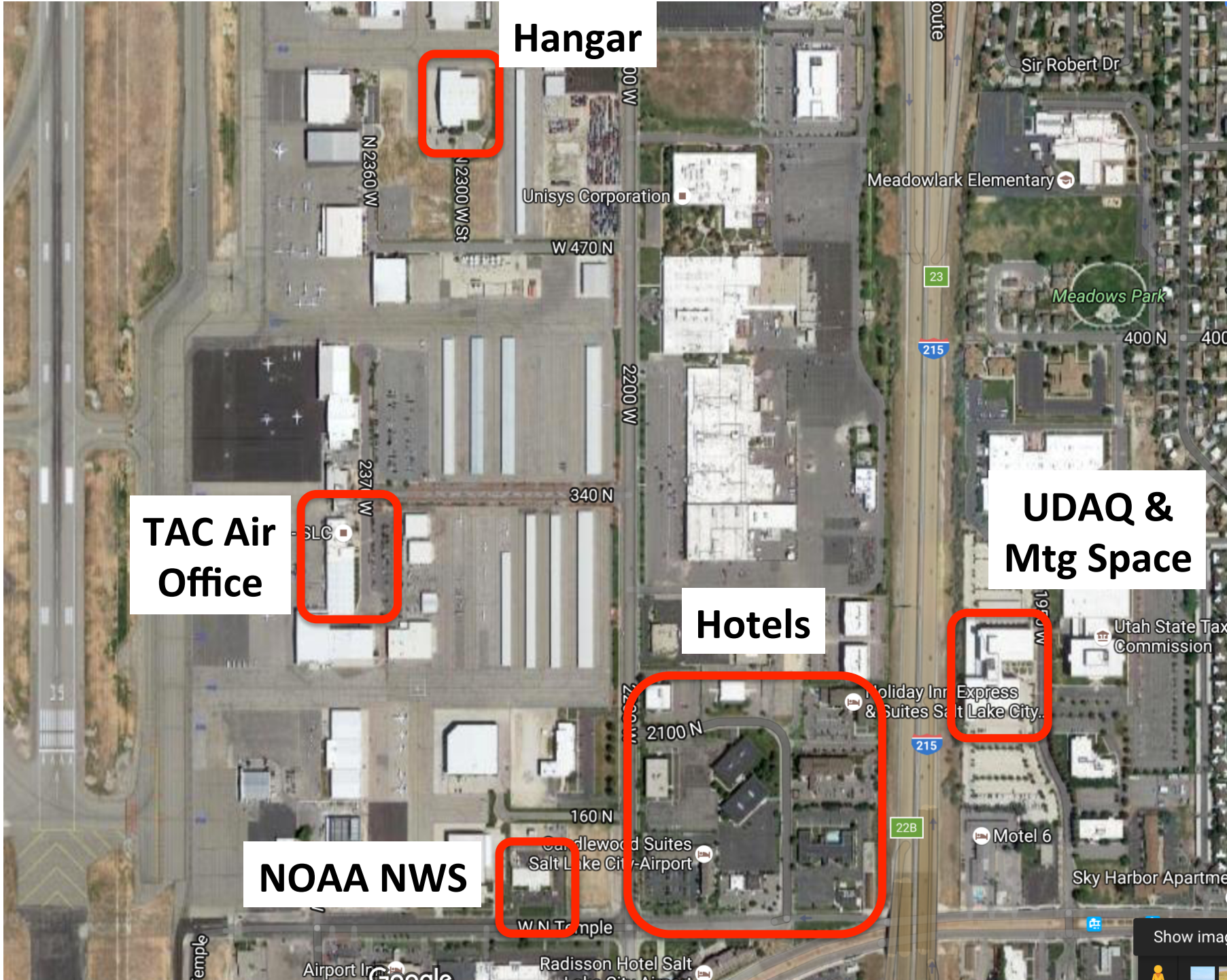
UWFPS Twin Otter Telecon, November 21 2016



1. Instrument updates
2. Update on twin otter payload constraints from last meeting
3. Salt Lake visit on Nov 10 and updates of hangar / hotel / meeting space
4. Shipping and integration: logistics and schedules
5. Transit logistics and campaign start

Twin Otter Payload Update

Instrument	Power (kVA)	Weight (lbs)	Actual Power (kVA)	Actual Weight (lbs)	Notes
AMS	1.1	560	1.1	560	
Iodide TOF CIMS	1	380	1	380	
NOxCaRD	0.5	286	0.5	286	
NH3 QCL	0.93	230	0.93	230	
Picarro CO (CH4)	0.4	70	0	0	
Met Probe	0.1	7	0.1	7	
Data Acquisition	0.1	10	0.1	10	Estimate
UHSAS	0.1	49	0	0	
Equipment Subtotal		1592		1473	
Pilots		360		360	2 pilots
Scientists		360		360	2 operators
Life raft		70		0	
Crew Subtotal		790		720	
Total	3.93	2382	3.53	2193	
Available	4 kVA 115 VAC ~3 kVA 28 VDC	2200	5	2200	



Hangar

TAC Air Office

NOAA NWS

Hotels

UDAQ & Mtg Space

Show image

Hangar Ramp (Looking Northwest)



Back of Hangar



Front of Hangar



Wall Space 1



Wall Space 2



Wall Space 3



At least 60 feet of wall space, possibly 80

Electrical outlets in that area are limited, but we can run extension cords from other locations

UDAQ Meeting Room



Integration Schedule & Logistics

Integration (and de-installation) will take place at the NCAR Research Aviation Facility (RAF) in Broomfield, Colorado

Point of contact: Pavel Romashkin, 303 497 1027

Shipping Address:

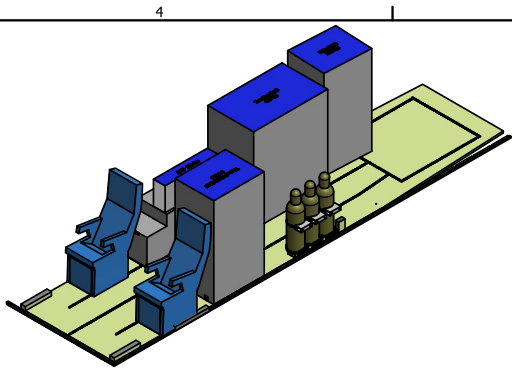
NCAR/EOL Research Aviation Facility
10802 Airport Court
Broomfield, CO 80021-2561

External investigators, please contact Bob Zook (robert.zook@noaa.gov, 303 497 3662) to arrange shipment of your instruments

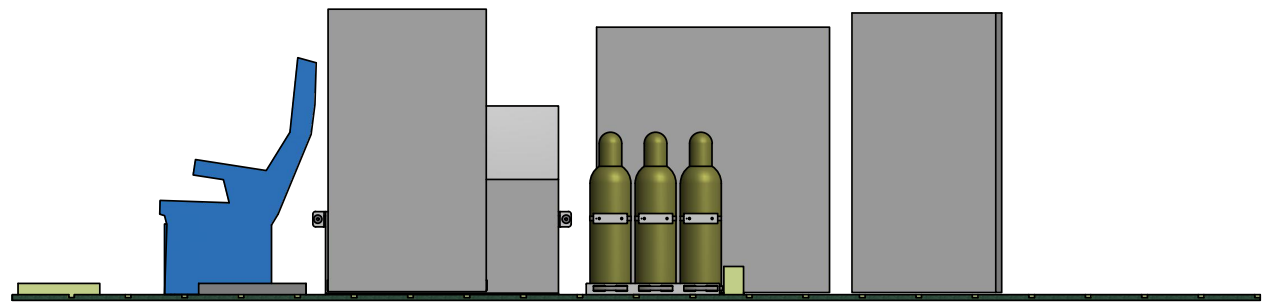
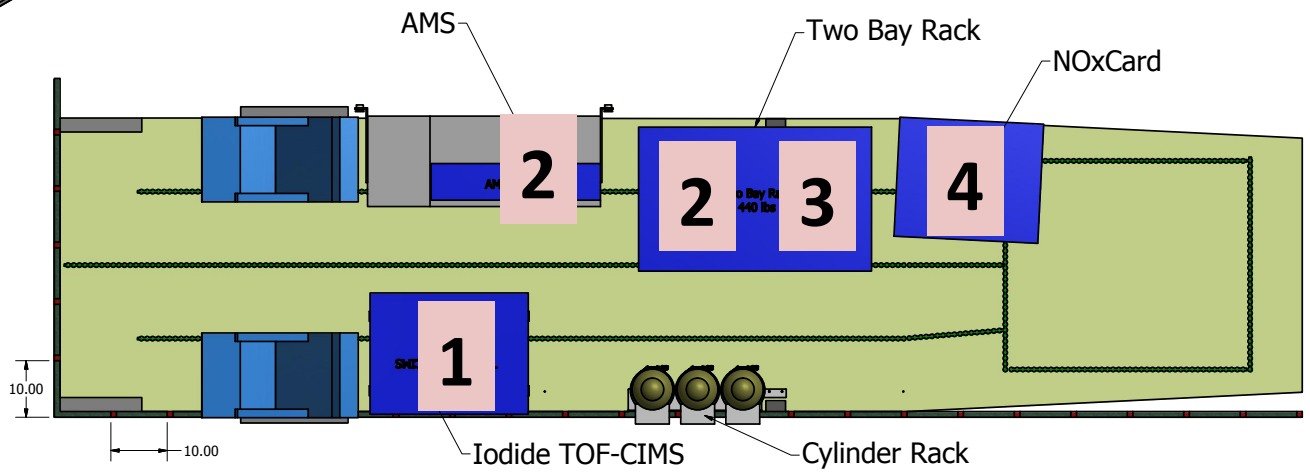
University of Washington: Ship instruments and equipment directly to RAF in Broomfield by January 2

University of Toronto: Ship instruments and equipment to the NOAA Boulder laboratories by December 19 (or much sooner)

NOAA (and UT): Truck will be available early January to bring instruments from CSD to RAF



For the instruments and cylinders alone (No passengers, seats, table, computer, etc.)
 The C.G. is 90 inches aft of the bulkhead.
 Instrument C.G. is at station $(90 + 112) =$ **Station 202**
 The combined weight ~ 1500 lbs



- | | |
|----------------|------------|
| 1. Iodide CIMS | 3. NH3 QCL |
| 2. AMS | 4. NOxCaRD |

DRAWN	11/16/2016		
bdube		TITLE	
CHECKED			
QA			
MFG			
APPROVED			
		SIZE	DWG NO
		C	Simple_N48_FloorPlanInstruments
		SCALE	REV
			1
			SHEET 1 OF 1

JANUARY 2017

24calendar.com

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 Twin Otter Transit	3 UW Iodide CIMS	4 UW Iodide CIMS	5 NOAA AMS	6 NOAA AMS	7 UT NH3 QCL
8 UT NH3 QCL	9 NOAA NOxCaRD	10 NOAA NOxCaRD	11	12 Test Flight 1	13 Test Flight 2	14 Packing
15 Salt Lake Transit	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JANUARY 2017

24calendar.com

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3 Twin Otter Transit	4 UW Iodide CIMS	5 UW Iodide CIMS	6 NOAA AMS	7 NOAA AMS
8 UT NH3 QCL	9 UT NH3 QCL	10 NOAA NOxCaRD	11 NOAA NOxCaRD	12 Test Flight 1	13 Test Flight 2	14 Packing
15 Salt Lake Transit	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Integration Schedule – External Investigators

University of Washington

Lexie Goldberger	Broomfield, January 2 - 15
Ben Lee	Broomfield, January 2 - ??
Joel Thornton	Broomfield, ??

University of Toronto

Alex Moravek	Boulder, December 19-23
	Broomfield, January 6-15
Jen Murphy	Boulder, December 19-21
	Broomfield, ??

Please contact Jane August, Jane.E.August@noaa.gov, 303 487 7531 with specific air travel requests using the federal contract carriers between specific cities.

Denver – Seattle	Alaska	Salt Lake – Seattle	Delta
Denver – Toronto	United	Salt Lake – Toronto	No Award
Denver – Salt Lake	United		

Please make your own hotel reservations in Boulder or Broomfield. Must stay within federal per-diem rates (\$132), but helpful to the project if you find a better rate than this!

Transit Schedule & Logistics – Broomfield to Salt Lake

Current scheduled transit date is January 15, 2017

We will make every effort not to let that date slip !

Moving earlier is unlikely, but we will look for this opportunity

Two options for investigators on the twin otter:

1. Fly only one investigator, make the transit in one trip. Allows all instruments to be fully operational during transit.
2. Fly two investigators, but make one stop on the way to Salt Lake. Would require that instruments be shut down during refueling stop.

Depending on above, will need to identify which investigator(s) fly with the aircraft, and which will need commercial flights to Salt Lake

Options for Shipping

1. Drive a rental truck ourselves (2 investigators, 8 hour drive)
 - Advantage: Shipment goes directly to Salt Lake in one day
 - Disadvantage: Additional tasks during already busy project (exhaustion)
2. Ship via fed-ex ground
 - Advantage: Less exhaustion
 - Disadvantage: Extra shipping day - equipment arrives on the 16th

Campaign Schedule – All Investigators

Hotel: Candlewood Suites, 2170 W. North Temple, Salt Lake City UT 84116

University of Washington

Lexie Goldberger	January 15 – February 13
Ben Lee	??
Joel Thornton	??

University of Toronto

Alex Moravek	January 15 – February 13
Jen Murphy	??

NOAA

Ale Franchin	January 15 – February 13
Ann Middlebrook	January 15 - ??
Steve Brown	January 15 – February 13
Bill Dubé	January 15 - 21
Dorothy Fibiger	January 15 – February 13
Erin McDuffie	January 15 – February 13
Carrie Womack	January 15 – February 13

Confirm dates of stay (if different from above) with Steve Brown by early December

Arrange air fare with Jane August as soon as dates of state are confirmed