

UWFPS 2017 Summer Teleconference #1

June 29, 2017

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5. Stu McKeen
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UWFPS Data Meeting, August 28-29

University of Utah

<https://esrl.noaa.gov/csd/groups/csd7/measurements/2017uwfps/meetings/>

Data Meeting

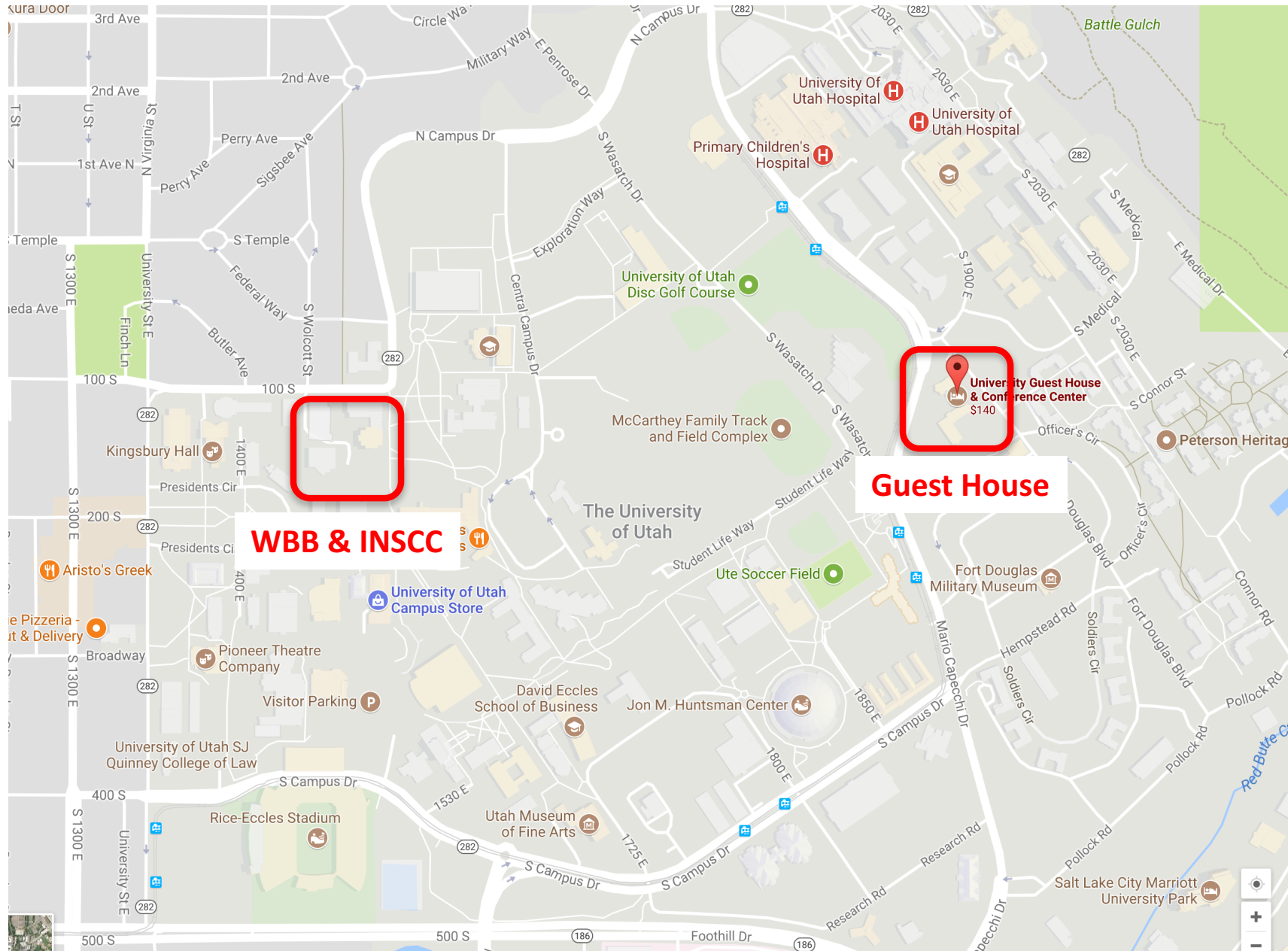
Data Meeting, 28-29 August 2017 Salt Lake City, UT

Location: **INSCC auditorium**, adjacent to the William Browning Building on the University of Utah Campus (same location as the science meetings during the campaign).

Times: Monday, 28 August, 8am - 5pm and Tuesday, 29 August, 8am - 1pm and 3pm - 5pm (though may end earlier to allow out of town travelers to get to the airport).

Accommodations: [University Guest House and Conference Center](#), University of Utah. **Call 1-888-416-4075 by 5pm Friday, 14 July 2017 to make reservations, and mention the group name "Particulate Study Science Meeting"**

University of Utah Campus



Google Maps: 1.0 mile / 22 minutes walking



Session A008: Air pollution in urban airsheds during winter

<https://agu.confex.com/agu/fm17/preliminaryview.cgi/Session23781>

Conveners	Steve Brown	NOAA, USA
	Munkh Baasandorj	UDAQ & University of Utah, USA
	Keding Lu	Peking University, China
	Ally Lewis	University of York, UK
Invited Speakers	Hu Min	Peking University, China
	William Bloss	University of Birmingham, UK

Severe urban air pollution during the winter season is a well-known phenomenon and significant public health issue. So called wintertime “killer smog” events in the U.S. and Great Britain in the 1940’s and 1950’s brought particular public attention to air quality as a public health issue. Episodic winter pollution haze events continue to occur despite decades of investment in emissions controls. Such events are found globally, in the U.S., Europe, China and beyond, and they generate high levels of public interest and concern, including demands for local action. The scientific understanding required to implement effective mitigation strategies remains challenging due to the complex and often non-linear interplay between cold weather meteorology, emissions, atmospheric chemical mechanisms and aerosol thermodynamics. This session invites submissions from recent field, laboratory and modeling studies relevant to the current state of the science in winter air pollution.

Important Dates / Data Archiving

August 1, 2017: Preliminary data submission deadline

August 28-29, 2017: Data Meeting, University of Utah

September 15, 2017: Draft report to UDAQ

October 1, 2017: Final data submission deadline

December 11-15, 2017: Fall AGU meeting, New Orleans

March 1, 2018: Final report to UDAQ

Data archiving and access instructions can be found at:

https://esrl.noaa.gov/csd/groups/csd7/measurements/2017uwfps/TwinOtter/UWFPS_DataInstructions.pdf

username: uwfps

password: S@ItLake!

All preliminary aircraft data is already posted, and some final data is already posted (thanks AMS & UHSAS !). The ground sites are actively being updated.



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UWFPS 2017 Twin Otter Data Download

Select a flight to download data.

Select a flight Go

flt20170128_L2 is currently selected.

All time is UTC. All files are zipped. Click on the icon to download.
Data revision is indicated by R followed by a letter (preliminary data) or number (final data).

The indicates files in [ICARTT ascii format](#).

The indicates files in [Igor binary format](#).

The indicates no files will be available - contact the PI.

Unselect All Display Plots

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FlightData		RA	<input type="checkbox"/> AmbTemp <input type="checkbox"/> GPSAlt <input type="checkbox"/> GPSLat <input type="checkbox"/> GPSLon <input type="checkbox"/> Heading <input type="checkbox"/> Pitch <input type="checkbox"/> RelHumidity <input type="checkbox"/> Roll <input type="checkbox"/> StaticPrs <input type="checkbox"/> TrueAirspd <input type="checkbox"/> VertWindSpd <input type="checkbox"/> WindDir <input type="checkbox"/> WindSpd
AMS		R0	<input type="checkbox"/> AMS_SO4 <input type="checkbox"/> AMS_NO3 <input type="checkbox"/> AMS_NH4 <input type="checkbox"/> AMS_Org <input type="checkbox"/> AMS_ChI <input type="checkbox"/> AMS_Total
NOxCaRD		RB	<input type="checkbox"/> NO_ppbv <input type="checkbox"/> NO2_ppbv <input type="checkbox"/> NOy_ppbv <input type="checkbox"/> O3_ppbv
NH3		RB	<input type="checkbox"/> NH3_ppbv
UHSAS		R0	<input type="checkbox"/> NumConcTotal_n_cm3 <input type="checkbox"/> SurfConcTotal_um2_cm3 <input type="checkbox"/> VolConcTotal_um3_cm3
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UWFPS 2017 Ground Sites Data Download

Utah Dept. of Environmental Quality - Air Monitoring Network station information.

The indicates files in Igor binary format.

The indicates files in ICARTT ascii format.

Click on the icon to download data.

Hawthorne Ground Site

Species	Organization	File	Revision	Modification Date
Trace gases, PM2.5	Utah DAQ		R0	20170516

North Provo Ground Site

Species	Organization	File	Revision	Modification Date
Trace gases, PM2.5	Utah DAQ		R0	20170516

Smithfield Ground Site

Species	Organization	File	Revision	Modification Date
Trace gases, PM2.5	Utah DAQ		R0	20170516

University of Utah Ground Site

Species	Organization	File	Revision	Modification Date
AIM-IC	Univ. of Toronto		RA	20170207
HCHO	EPA		RA	20170213
Trace gases, PM2.5	Univ. of Utah		RA	20170519

All Sites

Species	Organization	File	Revision	Modification Date
Daily PM2.5	Univ. of Utah		R0	20170519
Hourly PM2.5	Univ. of Utah		R0	20170519

Useful links

1. Ceilometer data from Hawthorne (HW), landfill site near the GSL (LFL, Logan (LOG), Mountain met site near the Red butte Canyon (MTN), Parleys Canyon (PAR), Lindon (UTV) :

http://www.inscc.utah.edu/~hoch/AIRQUAL_2016-2017/CEILOMETER/

2. Surface met observations:

<http://mesowest.utah.edu/cgi-bin/droman/mesomap.cgi?state=UT&rawsflag=3>

To compare multiple sites:

http://home.chpc.utah.edu/~u0553130/Brian_Blalock/cgi-bin/ts_multistations.cgi

The stations ID's can be found at mesowest website.

3. Spatial PM2.5, O3 (Mesowest airquality):

<http://meso2.chpc.utah.edu/aq/cgi-bin/map.cgi>

4. Spatial CO2, CH4 data:

<https://air.utah.edu/index.html>

5. Cameras WBB facing south

http://meso1.chpc.utah.edu/station_cameras/archive/wbbs_cam/

facing west:

http://meso1.chpc.utah.edu/station_cameras/archive/wbbw_cam/

6. For heat deficit values or ceilometer data, contact Sebastian.

Back trajectory specific to TO flights: coming soon

Future Teleconference Dates

Thursday, July 13	Noon MDT
Thursday, July 27	Noon MDT
Thursday, August 17	Noon MDT

Start thinking about your data & analysis! I will contact the twin otter and ground site groups with requests for volunteers to give informal presentations at these teleconferences.

I am looking for:

- Data status and updates for archiving
- First-looks at your data to show what you have measured
- Descriptions of what is available to others for developing multi-data set analysis
- Known data limitations
- Initial thoughts on analyses that you would like to lead, especially involving multiple data sets