

1. SAVANT/DUSTRACK/Final data

2. Dataset Author(s)

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3. Time of Interest

1.	09/23/2018-09/24/2018	DT7 (see section 7 descriptions)	09/23/2018 22:59:11 – 09/24/2018 00:00:42	
2.	09/29/2018-09/30/2018	DT2	09/30/2018 01:09:25 – 09/30/2018 07:43:50	
		DT4	09/29/2018 22:33:01 – 09/30/2018 04:28:31	
		DT6	09/29/2018 21:02:11 – 09/30/2018 01:57:56	

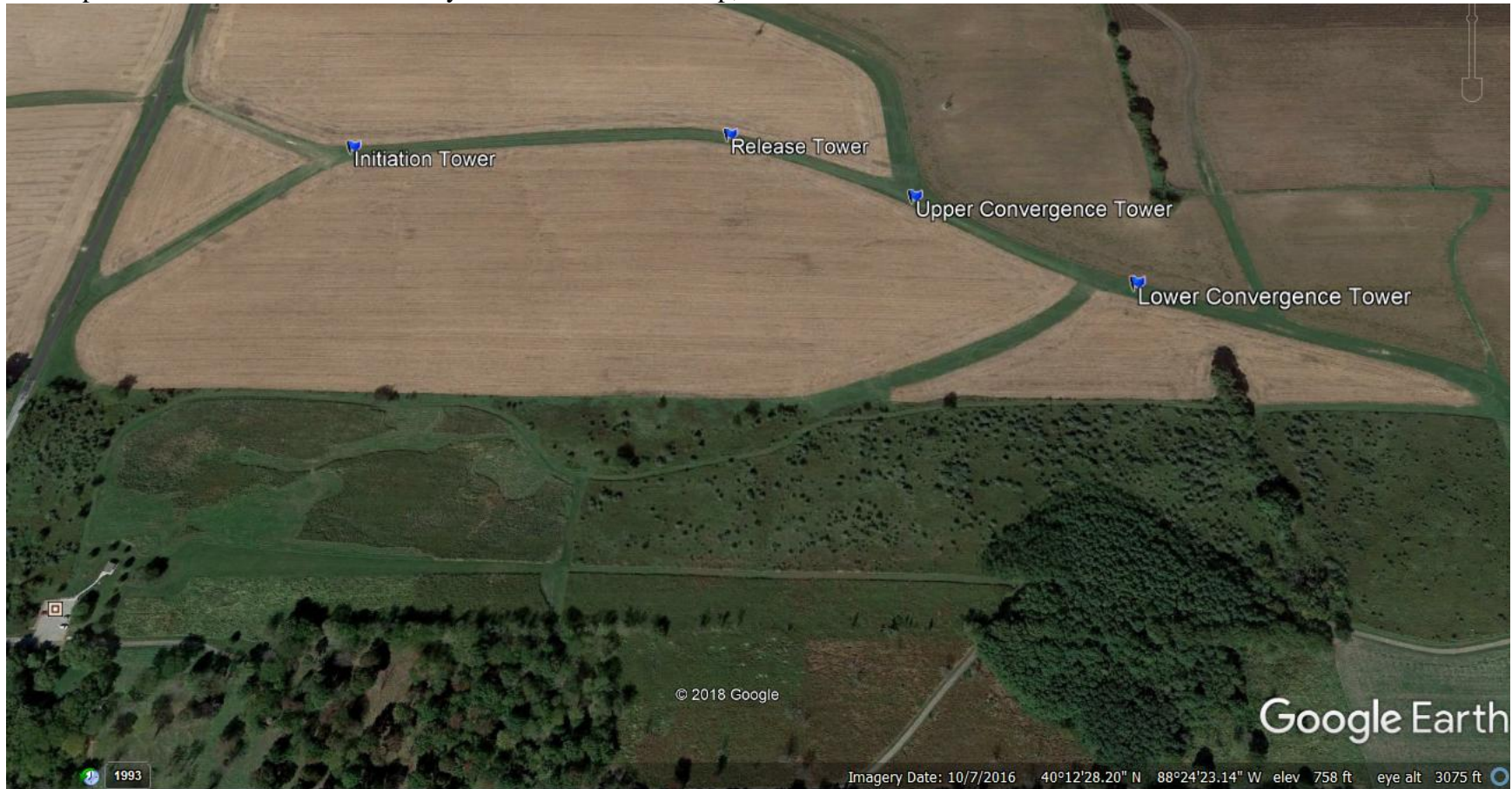
		DT7	09/29/2018 21:31:48 – 09/30/2018 01:41:25	
		DT10	09/29/2018 21:02:00 – 09/30/2018 02:10:09	
3.	10/11/2018-10/12/2018	DT3	10/12/2018 00:11:30 – 10/12/2018 00:22:56	
			10/12/2018 00:24:57 – 10/12/2018 07:31:26	
		DT5	10/11/2018 23:28:44 – 10/12/2018 08:25:00	
		DT6	10/12/2018 01:51:38 – 10/12/2018 07:22:03	
		DT7	10/12/2018 00:44:21 – 10/12/2018 07:14:11	
		DT8	10/11/2018 23:44:58 – 10/12/2018 07:46:07	
		DT9	10/12/2018 00:28:06 – 10/12/2018 07:25:46	
		DT10	10/12/2018 00:00:35 – 10/12/2018 07:08:59	
		4.	10/15/2018-10/16/2018	DT2
10/16/2018 01:54:44 – 10/16/2018 06:57:09				
DT3	10/15/2018 22:38:35 – 10/15/2018 22:54:46			
	10/16/2018 01:57:20 – 10/16/2018 06:59:45			
DT5	10/15/2018 22:07:28 – 10/16/2018 07:05:46			
DT6	10/15/2018 22:27:03 – 10/16/2018 06:49:47			
DT7	10/15/2018 22:17:51 – 10/16/2018 06:38:26			
DT8	10/15/2018 22:38:59 – 10/15/2018 22:58:11			
	10/15/2018 22:59:54 – 10/16/2018 07:00:44			
DT9	10/16/2018 02:20:50 – 10/16/2018 07:14:58			
DT10	10/15/2018 22:55:21 – 10/15/2018 23:12:38			
	10/15/2018 23:15:31 – 10/16/2018 06:56:08			
5.	10/17/2018-10/18/2018	DT2	10/17/2018 23:43:15 – 10/18/2018 07:37:45	
		DT3	10/17/2018 23:48:47 – 10/17/2018 23:53:41	
			10/18/2018 02:03:49 – 10/18/2018 07:27:07	
		DT5	10/18/2018 00:16:55 – 10/18/2018 08:04:07	
		DT6	10/17/2018 23:23:46 – 10/18/2018 07:22:55	
		DT7	10/17/2018 23:25:42 – 10/18/2018 07:20:37	
		DT8	10/17/2018 23:42:59 – 10/18/2018 07:39:19	
		DT9	10/17/2018 23:54:32 – 10/17/2018 23:54:32	No data
DT10	10/17/2018 23:48:51 – 10/18/2018 07:23:34			
6.	10/23/2018-10/24/2018	DT2	10/23/2018 22:15:30 – 10/24/2018 07:08:45	
		DT3	10/23/2018 22:38:40 – 10/23/2018 23:33:15	
			10/23/2018 23:37:03 – 10/24/2018 00:17:19	
			10/24/2018 00:19:27 – 10/24/2018 07:37:17	

		DT5	10/23/2018 21:26:17 – 10/24/2018 07:33:51	
		DT6	10/23/2018 21:47:50 – 10/24/2018 07:49:42	
		DT7	10/23/2018 22:07:37 – 10/24/2018 07:08:23	
		DT8	10/23/2018 22:32:24 – 10/24/2018 08:16:29	
		DT9	10/23/2018 22:22:11 – 10/24/2018 08:24:01	
		DT10	10/23/2018 22:44:07 – 10/24/2018 07:53:57	
7.	10/27/2018	DT2	10/27/2018 22:38:40 – 10/27/2018 23:27:19	
		DT3	10/27/2018 22:41:51 – 10/27/2018 23:10:28	
		DT5	10/27/2018 18:27:49 – 10/28/2018 00:08:38	
		DT6	10/27/2018 19:04:13 – 10/27/2018 23:39:36	
		DT7	10/27/2018 18:54:36 – 10/27/2018 23:52:18	
		DT8	10/27/2018 18:47:09 – 10/27/2018 23:26:39	
		DT9	10/27/2018 18:55:48 – 10/27/2018 23:08:28	
		DT10	10/27/2018 18:58:49 – 10/27/2018 23:11:56	
8.	10/29/2018-10/30/2018	DT2	10/29/2018 17:35:07 – 10/30/2018 01:08:55	
		DT3	10/29/2018 17:57:33 – 10/29/2018 18:59:51	
			10/29/2018 19:04:58 – 10/30/2018 01:06:33	
		DT5	10/29/2018 17:15:54 – 10/30/2018 01:28:01	
		DT6	10/29/2018 17:45:34 – 10/30/2018 01:13:33	
		DT7	10/29/2018 17:42:58 – 10/30/2018 01:13:16	
		DT8	10/29/2018 17:36:16 – 10/30/2018 01:09:05	
		DT9	10/29/2018 17:57:04 – 10/30/2018 01:06:18	
		DT10	10/29/2018 17:57:32 – 10/30/2018 01:05:42	
9.	11/02/2018-11/03/2018	DT2	11/02/2018 16:58:03 – 11/02/2018 18:37:12	
			11/03/2018 03:30:04 – 11/03/2018 07:51:20	
		DT3	11/02/2018 17:28:07 – 11/02/2018 18:31:37	
			11/03/2018 03:27:29 – 11/03/2018 07:47:01	
		DT5	11/02/2018 16:38:14 – 11/03/2018 07:59:48	
		DT6	11/02/2018 17:07:32 – 11/03/2018 07:18:33	
		DT7	11/02/2018 17:07:45 – 11/03/2018 07:18:24	
		DT8	11/02/2018 17:15:18 – 11/03/2018 07:51:19	
		DT9	11/02/2018 17:32:12 – 11/02/2018 18:56:25	
			11/02/2018 18:57:59 – 11/03/2018 07:46:55	
DT10	11/02/2018 17:24:35 – 11/03/2018 07:46:57			
10	11/07/2018-11/08/2018	DT2	11/07/2018 20:41:48 – 11/07/2018 23:54:26	

		DT3	11/07/2018 20:55:11 – 11/07/2018 23:56:51	
		DT5	11/07/2018 20:32:13 – 11/08/2018 00:11:23	
		DT6	11/07/2018 21:06:45 – 11/07/2018 23:45:05	
		DT7	11/07/2018 21:07:29 – 11/07/2018 23:44:59	
		DT8	11/07/2018 20:44:08 – 11/07/2018 23:54:54	
		DT9	11/07/2018 20:49:42 – 11/07/2018 23:57:13	
		DT10	11/07/2018 20:52:52 – 11/07/2018 23:57:13	
11	11/10/2018	DT2	11/10/2018 17:15:59 – 11/10/2018 20:26:24	
		DT3	11/10/2018 17:22:11 – 11/10/2018 20:10:02	
		DT5	11/10/2018 16:40:10 – 11/10/2018 20:56:46	
		DT6	11/10/2018 16:59:59 – 11/10/2018 20:36:21	
		DT7	11/10/2018 16:54:54 – 11/10/2018 20:36:54	
		DT8	11/10/2018 17:13:54 – 11/10/2018 20:27:34	
		DT9	11/10/2018 17:30:27 – 11/10/2018 20:18:50	
		DT10	11/10/2018 17:27:51 – 11/10/2018 20:11:02	
12	11/11/2018-11/12/2018	DT2	11/11/2018 19:34:53 – 11/11/2018 23:18:22	
		DT3	11/11/2018 19:24:36 – 11/12/2018 01:15:21	
		DT5	11/11/2018 18:16:02 – 11/12/2018 01:35:29	
		DT6	11/11/2018 18:57:30 – 11/12/2018 01:15:15	
		DT7	11/11/2018 18:55:43 – 11/12/2018 01:15:19	
		DT8	11/11/2018 18:28:04 – 11/12/2018 01:18:54	
		DT9	11/11/2018 18:42:42 – 11/12/2018 01:15:09	
		DT10	11/11/2018 18:43:56 – 11/12/2018 01:15:05	
13	11/13/2018-11/14/2018	DT2	11/13/2018 23:57:58 – 11/14/2018 08:03:51	
		DT3	11/14/2018 00:24:31 – 11/14/2018 08:01:17	
		DT5	11/13/2018 23:16:38 – 11/14/2018 12:49:58	
		DT6	11/13/2018 23:34:18 – 11/14/2018 13:30:33	
		DT7	11/13/2018 23:36:27 – 11/14/2018 13:15:33	
		DT8	11/13/2018 23:56:35 – 11/14/2018 08:12:35	
		DT9	11/14/2018 00:23:21 – 11/14/2018 13:58:32	
		DT10	11/14/2018 00:21:53 – 11/14/2018 13:58:10	

4. Area of Interest

The experiments location is on: Crowley Rd Mahomet Township, IL 61853



Initiation Tower: 40°12'41.46"N, 88°24'37.99"W

Release Tower: 40°12'42.04"N, 88°24'25.52"W

Upper Convergence Tower: 40°12'39.78"N, 88°24'19.61"W

Lower Convergence Tower: 40°12'36.91"N, 88°24'13.26"W

Dustrak8530, 8520 Setup Map (10/11/2018-10/12/2018)

Height	Initiation Tower	Release Tower	Upper Convergence Tower	Lower Convergence Tower
6.0 m				DT9 8530
3.0 m	DT5 – 8530 (see section 7 for instrument descriptions)		DT8 -8530	
1.5 m		DT7 –8530		DT10 – 8530
0.5 m				
0.0 m		DT6 8530 DT3 8520		DT2 8520 (no data recorded)

Dustrak8530, 8520, OPC Setup Map (10/15/2018-10/16/2018)

Height	Initiation Tower	Release Tower	Upper Convergence Tower	Lower Convergence Tower
6.0 m				DT9 8530
3.0 m	DT5 – 8530		DT8 -8530	
1.5 m		DT7 –8530		DT10 – 8530
0.5 m				
0.0 m		DT6 8530	DT3 8520	DT2 8520

Dustrak8530, 8520, OPC Setup Map (10/17/2018-10/18/2018)

Height	Initiation Tower	Release Tower	Upper Convergence Tower	Lower Convergence Tower
6.0 m				DT9- 8530(no data recorded)
3.0 m	DT5 – 8530		DT8 -8530	
1.5 m		DT7 –8530		DT10 – 8530
0.5 m				
0.0 m		DT6 8530 at 0.4 m Smoker	DT2-8520	DT3-8520

Dustrak8530 and 8520 Setup Map (10/23/2018-10/24/2018, 10/27/2018, 10/29/2018-10/30/2018,)

Height	Initiation Tower	Release Tower	Upper Convergence Tower	Lower Convergence Tower
6.0 m				DT9- 8530
3.0 m	DT5 – 8530		DT8 -8530	
1.5 m		DT7 –8530		DT10 – 8530
0.5 m				
0.0 m		DT6 8530 at 0.4 m Smoker	DT2-8520	DT3-8520

Dustrak8530 and 8520 Setup Map (11/2/2018-11/3/2018, 11/7/2018-11/8/2018, 11/10/2018, 11/11/2018-11/12/2018, 11/13/2018-11/14/2018)

Height	Initiation Tower	Release Tower	Upper Convergence Tower	Lower Convergence Tower
6.0 m				DT9- 8530
3.0 m	DT5 – 8530		DT8 -8530	
1.5 m		DT7 –8530		DT10 – 8530
0.5 m				
0.0 m		DT6- 8530	DT2-8520	DT3-8520

5. Data Frequency

Log Interval (mm:ss): 00:01

6. Data Spatial Type

ASCII Data File
Scalar data.

7. General Dataset Description

The samplers were set up on four towers: Initiation tower, Release tower, Upper Convergence Tower, and Lower Convergence Tower which can be seen on the Dustrak8530 and 8520 Setup Maps.

The Dustrak and OPC samplers measured 1-second PM total data and particle size distribution respectively.

The dataset includes the Dustrak data on experiment date of 09/23/2018-09/24/2018, 09/29/2018-09/30/2018, 10/11/2018-10/12/2018, 10/15/2018-10/16/2018, 10/17/2018-10/18/2018, 10/23/2018-10/24/2018, 10/27/2018, 10/29/2018-10/30/2018, 11/02/2018-11/03/2018, 11/07/2018-11/08/2018, 11/10/2018, 11/11/2018-11/12/2018, and 11/13/2018-11/14/2018 in excel documents converted by ASCII format.

All the Dustrak data of the same day are combined in one excel document each date for easy observing.

Instrument Description:

DT2

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II

Model Number: 8520

Serial Number: 85202400

Statistics, Channel: AEROSOL

Units: mg/m³

Calibration, Sensor: AEROSOL

Cal. date, 12/11/2017

DT3

TrakPro Version 4.70 ASCII Data File

Model: Dust Trak

Model Number: 8520

Serial Number: 85202401

Statistics, Channel: Aerosol

Units: mg/m³

Calibration, Sensor: Aerosol
Cal. date, 12/11/2017

DT4

TrakPro Version 4.70 ASCII Data File
Model: Dust Trak
Model Number: 8520
Serial Number: 85202403
Statistics,Channel: Aerosol
Units: mg/m³
Calibration, Sensor: Aerosol
Cal. date, 06/26/2018

DT5

TrakPro Version 4.70 ASCII Data File
Model: Dust Trak
Model Number: 8530
Serial Number: 8530183103
Statistics,Channel: Aerosol
Units: mg/m³
Calibration, Sensor: Aerosol
Cal. date, 10/12/2018

DT6

TrakPro Version 4.70 ASCII Data File
Model: Dust Trak
Model Number: 8530
Serial Number: 8530105323
Statistics,Channel: Aerosol
Units: mg/m³
Calibration, Sensor: Aerosol
Cal. date, 05/16/2018

DT7

TrakPro Version 4.70 ASCII Data File

Model: Dust Trak

Model Number: 8530

Serial Number: 8530105322

Statistics,Channel: Aerosol

Units: mg/m³

Calibration, Sensor: Aerosol

Cal. date, 05/16/2018

DT8

TrakPro Version 4.70 ASCII Data File

Model: Dust Trak

Model Number: 8530

Serial Number: 8530105324

Statistics,Channel: Aerosol

Units: mg/m³

Calibration, Sensor: Aerosol

Cal. date, 05/17/2018

DT9

TrakPro Version 4.70 ASCII Data File

Model: Dust Trak

Model Number: 8530

Serial Number: 8530181707

Statistics,Channel: Aerosol

Units: mg/m³

Calibration, Sensor: Aerosol

Cal. date, 04/25/2018

DT10

TrakPro Version 3.70 ASCII Data File

Model: Dust Trak

Model Number: 8530
Serial Number: 8531105301
Statistics,Channel: Aerosol
Units: mg/m³
Calibration, Sensor: Aerosol
Cal. date, 5/16/2018

8. File Names

List names of files transferred:

Readme (explanation of the data files),

Dustrack raw data files (Excel format):

DT-09232018-09242018, DT-09292018-09302018, DT-10122018-10132018, DT-10152018-10162018, DT-10172018-10182018, DT-10232018-10242018, DT-10272018, DT-10292018-10302018, DT-11022018-11032018, DT-11072018-11082018, DT-11102018, DT-11112018-11122018, DT-11132018-11142018.

File name explanation: DT: Dustrack, Date: mmddyyyy (some experiments across two days).

9. Data restrictions

Dataset needs to be restricted.

10. Digital Object Identifier (DOI)

The DOI for this Dustrack data is <https://doi.org/10.26023/2K8F-C4MC-HE05>

11. GCMD Keywords

Category: EARTH SCIENCE SERVICES

Topic: ENVIRONMENTAL ADVISORIES

Term: WEATHER/CLIMATE ADVISORIES

Variable_Level_1: DUST/ASH ADVISORIESs

UUID: 8f7c2388-24e4-4f90-a833-6dc166693879