

SOME FILES SAY
20130701H7

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center				
FLT ID: 20130702H7		From: KMQY		To: KMQY
FLT #:		Blk In: 0759 Z	Lnd Time: 0750 Z	
ETD: Z		Blk Out: 0101 Z	T/O Time: 0108 Z	
ETE:		Total Blk: 7.0	Total Flt: 6.7	
Sponsoring Org:		Program:	Purpose:	
AOC Flight Crew				
Aircraft Commander: SWEENEY			SSA: BOSKO	
Co-Pilot: PRICE / DIDIER			AVAPS: /	
Navigator: SLOAN /			Scientists:	
Flight Eng: DARBY /			Scientists:	
Flt Director: SEARS /			Scientists: EDWARDS PETER	
SEB: RICHARDS /			Scientists: LAW DANIEL	
Crew Chief:			Visitors: PEISHL JEFF DE GOOD JOOST / MIDDLE BLOOR ANN	
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				
AS REQUIRED BY ORM		YES / NO	REMARKS	
VOLCANIC ASH				
SCIENCE MISSION WITHIN BOUNDARY LAYER				
LACK OF PRECIPITATION				
RELATIVE HUMIDITY AT OR ABOVE 80%				
LARGE AIR-SEA TEMPERATURE GRADIENT				
HIGH SURFACE WINDS				
LONG FETCH AND/OR DURATION OF SFC WIND				
SEA SALT ACCRETION FORECAST				
SEA SALT ACCRETION OBSERVED				
Dropsondes		Good:	Bad:	Sent:
AXBT		Good:	Bad:	Sent:
List other data sources in Remarks section				
Remarks (Storm VDM Identifier, Mission ID, Fix Times)			Fix #	VDM Ob Num Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)				
TCPOD/WSPOD Mission ID: SENEXB				
(ie: NOAA2 2418A SANDY)				
Remarks:				



N42RF ERROR SUMMARY

SENEX 2013 KMQY

01 July 2013



Flight ID: 20130701H1

<u>Sensor or system</u>	<u>Number or Name</u>
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2
Vertical Accelerometer	AccZI.1
Altimeter	AltIGPS.1
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1
Flight Directory	acdata/MET/2013/20130701H1

Local Met Data:	<u>Takeoff</u> (0108Z) 02July	<u>Landing</u> (0754Z) 02 July
Aircraft Static Pressure	994.1mb	994.5mb
Tower Pressure (corrected)	992.8mb	993.6mb

Notes:

All AOC instruments worked properly.

After the aircraft returned to MacDill AFB, a few instruments that were installed on N42RF were removed and calibrated in the AOC calibration laboratory. The final Quality Control data sets use the post project calibration coefficients for determining the output of the instruments.

The following parameters that have been updated from the original data set follow.

PDALPHA.2 - Radome Attack Differential Pressure Measured
PDBETA.2 - Radome Sideslip Differential Pressure Measured
PDALPHA.1 - Fuselage Attack Differential Pressure Measured
PQALPHA.1 - Fuselage Attack Dynamic Pressure Measured
PDBETA.1 - Fuselage Sideslip Differential Pressure Measured
PQBETA.1 - Fuselage Attack Dynamic Pressure Measured
PQM.3 - Measured Fuselage Dynamic Pressure, Two Sources --co-pilot
PQM.4 - Radome Dynamic Pressure Measured
TTM.1 - Measured Total Temperature Degree
TTM.2 - Measured Total Temperature Degree

Any derived value using the outputs from the measured parameters listed above have changed slightly from the values measured in real-time.

See SENEX_READ_ME.txt for file information.

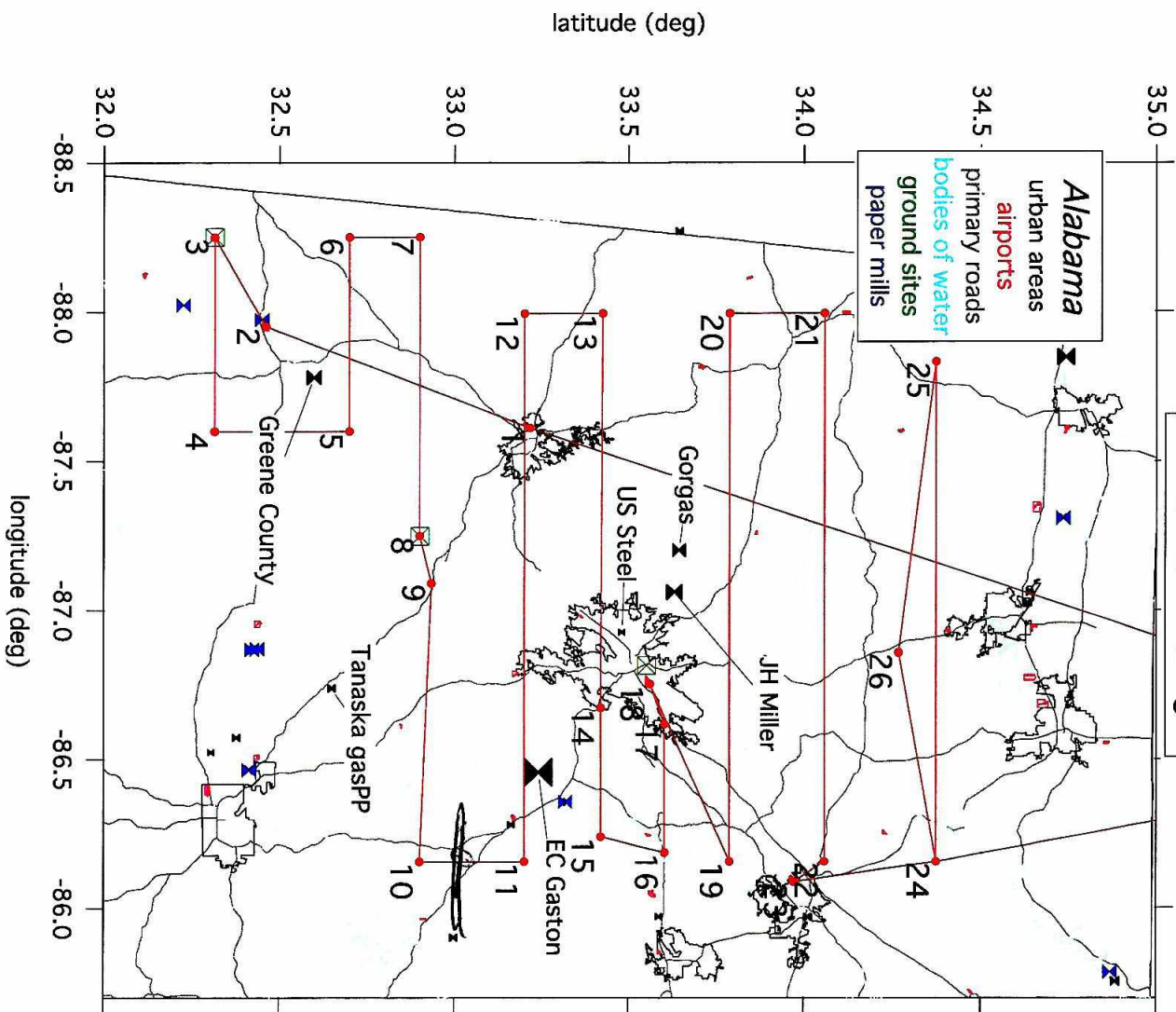
Flight Director:

Phone #:

Ian Sears

(813) 828-3310 ext. 3039

Birm_PP_Ston_night



Birm_PP_Ston_night

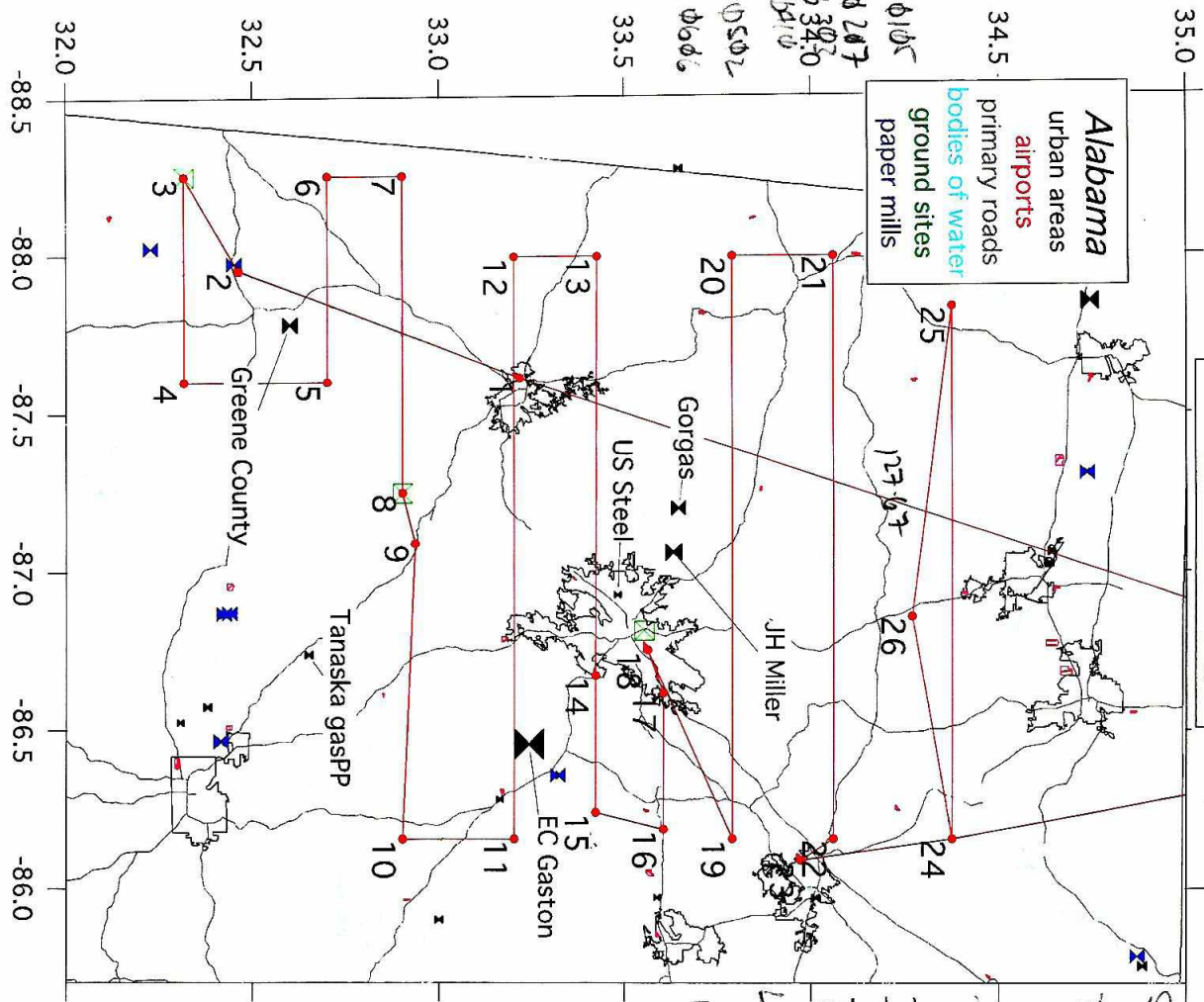
est. time	alt. ft	Comments	lat deg	lat min	lng deg	lng min	lat	lng	point	AGL	MSL
0:00:00	543 KMQY Smyrna		36	0.54	-86	31.2	36.009	-86.5201	0	AGL	
0:15:00	15000 enroute up										
0:25:00	15000 enroute down										
0:40:00	1500										
0:46:00	6000 enroute up										
0:52:00	300 KICL Tuscaloosa, low approach		33	15.24	-87	36.08	33.2206	-87.6114	1	AGL	
0:58:00	6000										
1:06:30	300 KDVA Demopolis, low approach		32	27.83	-87	57.24	32.4638	-87.9541	-2	AGL	
1:11:41	1500 Kinterbish		32	19.14	-88	15.18	32.319	-88.253	3	AGL	
1:21:30	1500		32	19.14	-87	36	32.319	-87.6	4	AGL	
1:28:16	1500		32	42	-87	36	32.7	-87.6	5	AGL	
1:38:03	1500		32	42	-88	15.18	32.7	-88.253	6	AGL	
1:41:39	1500		32	54.17	-88	15.18	32.9029	-88.253	7	AGL	
1:56:39	1500 CTR Centreville		32	54.17	-87	14.98	32.9029	-87.2497	8	AGL	
1:59:06	300-048 Bibb County, low approach		32	56.22	-87	5.43	32.9369	-87.0905	9	AGL	
2:06:00	8000 enroute up & down										
2:13:02	1500 enroute skipped		32	54.17	-86	9.46	32.9029	-86.1577	10	AGL	
2:18:23	1500 Birmingham plume		33	12.21	-86	9.46	33.2035	-86.1577	11	AGL	
2:45:45	1500		33	12.21	-87	59.74	33.2035	-87.9956	12	AGL	
2:49:45	1500		33	25.73	-87	59.74	33.4288	-87.9956	13	AGL	
3:09:24	1500 EC Gaston profile		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:15:48	1500		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:16:48	1000										
3:22:11	1000		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:23:11	2000										
3:28:35	2000		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:29:35	2500										
3:34:59	2500		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:35:59	3000										
3:41:23	3000		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:42:23	4000										
3:47:47	4000		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:49:47	6000										
3:54:11	6000 EC Gaston profile		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:57:29	1500 descent to max plume altitude		33	36.27	-86	11.24	33.6046	-86.1874	16	AGL	
4:03:52	1500		33	36.27	-86	37.1	33.6046	-86.6183	17	AGL	
4:05:59	300 KBHM Birmingham, low approach		33	33.83	-86	45.14	33.5639	-86.7523	18	AGL	
4:10:00	6000 enroute up & down										
4:15:39	1500 at max plume altitude, within re		33	47.35	-86	9.46	33.7891	-86.1577	19	AGL	
4:42:49	1500		33	47.35	-87	59.74	33.7891	-87.9956	20	AGL	
4:47:38	1500		34	3.56	-87	59.74	34.0594	-87.9956	21	AGL	
5:14:43	1500		34	3.56	-86	9.46	34.0594	-86.1577	22	AGL	
5:16:33	300 KGAD Gadsden, low approach		33	58.36	-86	5.35	33.9726	-86.0891	23	AGL	
5:20:00	6000 enroute up & down										
5:23:47	1500		34	22.48	-86	9.46	34.3747	-86.1577	24	AGL	
5:48:23	1500		34	22.48	-87	50.01	34.3747	-87.8335	25	AGL	
5:56:00	8000 enroute up & down										
6:02:50	300 3A1 Cullman Regional, low appr		34	16.12	-86	51.48	34.2687	-86.858	26	AGL	
6:08:00	6000 enroute up & down										
6:13:18	1500 Birmingham plume		34	22.48	-86	9.46	34.3747	-86.1577	24	AGL	
6:30:00	18000 enroute up & down										
6:42:51	1500 KMQY Smyrna		36	0.54	-86	31.2	36.009	-86.5201	0	AGL	

7/1/2012
 CLHC - AF 34 94 118.4
 1544 RT 090 34

S0
 0253
 0205
 0335
 5622

Birm_PP_Ston_night

Alabama
 urban areas
 airports
 primary roads
 bodies of water
 ground sites
 paper mills



latitude (deg)
 47.7 / 0105
 42.1 / 0207
 36.6 / 0340
 30.5 / 0410
 27.1 / 0502
 21.5 / 0606
 5.7

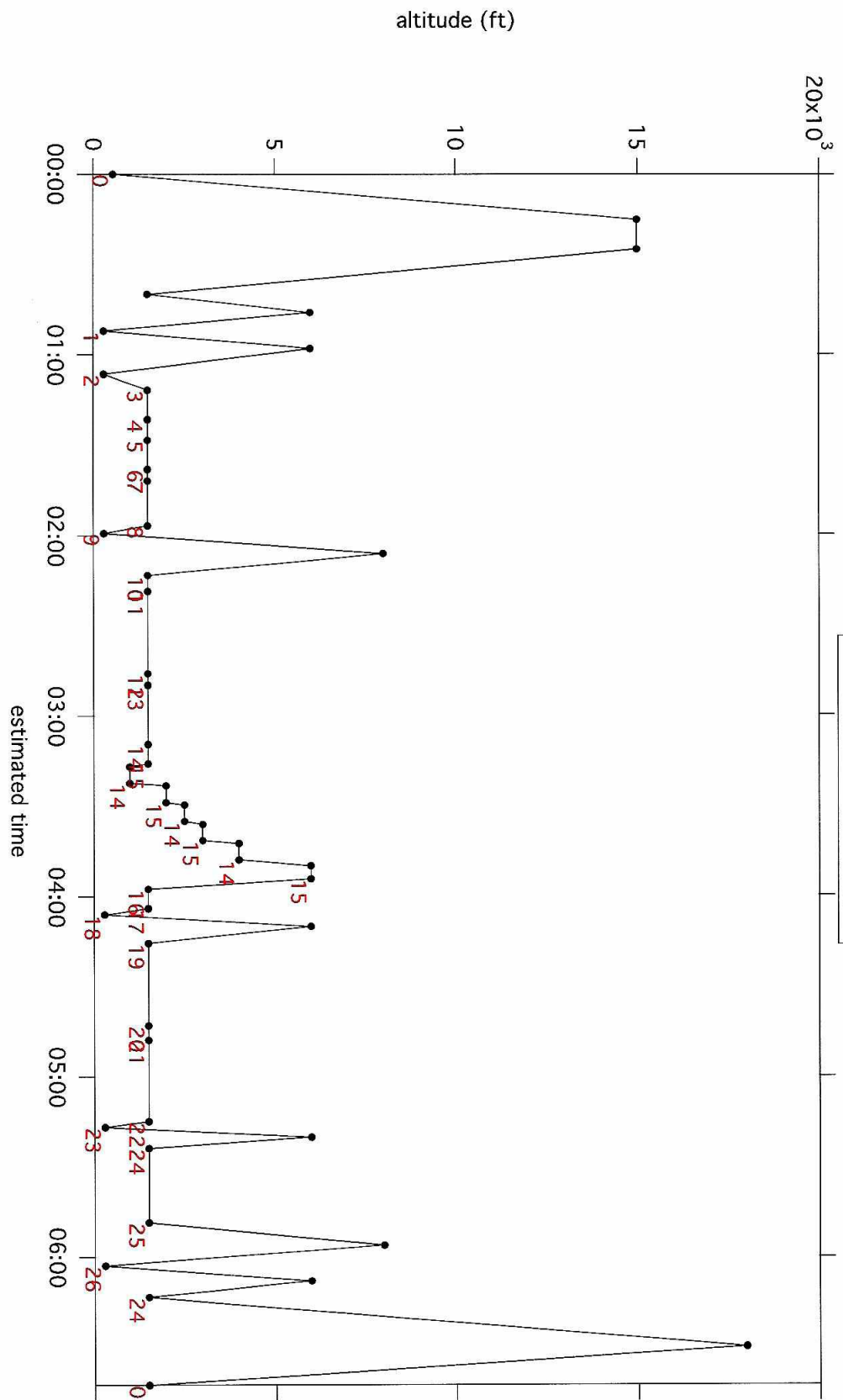
longitude (deg)

START - 0055/0100
 TR1 - 17' 32 29,89 0102
 V - 0104
 110 - 0108
 II - 0110
 III - 0112
 LAND - 751

FREE
 118.4
 126.75 (M120)
 119.05
 120.15 (B110)
 127.67 (A100)

1.5
 86 09.46

Birm_PP_Ston_night



Birm_PP_Ston_Night

est time	altit ft	Comments	lat deg	lat min	lng deg	lng min	lat	lng	point	AGL	MSL
0:00:00	543	KMOY Smyrna	36	0.54	-86	31.2	36.009	-86.5201	0	AGL	
0:15:00	15000	enroute up									
0:25:00	15000	enroute down									
0:40:00	1500										
0:46:00	6000	enroute up									
0:52:06	300	KTCL Tuscaloosa, Low approach	33	13.24	-87	36.68	33.2206	-87.6114	1	AGL	
0:58:00	6000										
1:06:30	300	KDYA Demopolis, low approach	32	27.83	-87	57.24	32.4638	-87.9541	2	AGL	
1:11:41	1500	Kinterbush	32	19.14	-88	15.18	32.319	-88.253	3	AGL	
1:21:30	1500		32	19.14	-87	36	32.319	-87.6	4	AGL	
1:28:16	1500		32	42	-87	36	32.7	-87.6	5	AGL	
1:38:03	1500		32	42	-88	15.18	32.7	-88.253	6	AGL	
1:41:39	1500	CTR Centreville	32	54.17	-88	15.18	32.9029	-88.253	7	AGL	
1:56:39	1500	0A8 Bibb County, low approach	32	54.17	-87	14.98	32.9029	-87.2497	8	AGL	
2:06:00	8000	enroute up & down	32	56.22	-87	5.43	32.9369	-87.0905	9	AGL	
2:13:02	1500	can be skipped	32	54.17	-86	9.46	32.9029	-86.1577	10	AGL	
2:18:23	1500	Birmingham plume	33	12.21	-86	9.46	33.2035	-86.1577	11	AGL	
2:45:45	1500		33	12.21	-87	59.74	33.2035	-87.9956	12	AGL	
2:49:45	1500		33	25.73	-87	59.74	33.4288	-87.9956	13	AGL	
3:09:24	1500	EC Gaston profile	33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:15:48	1500		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:16:48	1000										
3:22:11	1000		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:23:11	2000										
3:28:35	2000		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:29:35	2500										
3:34:59	2500		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:35:59	3000										
3:41:23	3000		33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:42:23	4000										
3:47:47	4000		33	25.46	-86	40.33	33.4244	-86.6721	14	AGL	
3:49:47	6000										
3:54:11	6000	EC Gaston profile	33	25.46	-86	14.48	33.4244	-86.2413	15	AGL	
3:57:29	1500	descent to max plume altitude	33	36.27	-86	11.24	33.6046	-86.1874	16	AGL	
4:03:52	1500		33	36.27	-86	37.1	33.6046	-86.6183	17	AGL	
4:05:59	300	KBHM Birmingham, low approach	33	33.83	-86	45.14	33.5639	-86.7523	18	AGL	
4:10:00	6000	enroute up & down									
4:15:39	1500	at max plume altitude, within re	33	47.35	-86	9.46	33.7891	-86.1577	19	AGL	
4:42:49	1500		33	47.35	-87	59.74	33.7891	-87.9956	20	AGL	
4:47:38	1500		34	3.56	-87	59.74	34.0594	-87.9956	21	AGL	
5:14:43	1500		34	3.56	-86	9.46	34.0594	-86.1577	22	AGL	
5:16:33	300	KGAD Gadsden, low approach	33	58.36	-86	5.35	33.9726	-86.0891	23	AGL	
5:20:00	6000	enroute up & down									
5:23:47	1500		34	22.48	-86	9.46	34.3747	-86.1577	24	AGL	
5:48:23	1500		34	22.48	-87	50.01	34.3747	-87.8335	25	AGL	
5:56:00	8000	enroute up & down									
6:02:50	300	3A1 Cullman Regional, low appr	34	16.12	-86	51.48	34.2687	-86.858	26	AGL	
6:08:00	6000	enroute up & down									
6:13:18	1500	Birmingham plume	34	22.48	-86	9.46	34.3747	-86.1577	24	AGL	
6:30:00	18000	enroute up & down									
6:42:51	1500	KMOY Smyrna	36	0.54	-86	31.2	36.009	-86.5201	0	AGL	

Birmingham MOA
 Tuscaloosa 128.3 / 122.95
 BHM 119.9 / 122.95
 CMDBM 122.8
 Folsom / Cullman 122.8