

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center				
FLT ID: 20130625H1		From: KMQY		To:
FLT #:		Blk In: 2230	Z	Lnd Time: 2224 Z
ETD: 1500 Z		Blk Out: 1505	Z	T/O Time: 1518 Z
ETE: 7430		Total Blk: 7.4		Total Flt: 7.1
Sponsoring Org: DAR		Program: SENEX	Purpose: SENEX - HAYNESVILLE	
AOC Flight Crew				
Aircraft Commander: KIRBEY			SSA: BOSKO	
Co-Pilot: DIDIER / MARTIN			AVAPS: CARPENTER	
Navigator: SLOAN /			Scientists: DE GOOW, JOOST	
Flight Eng: SEARS /			Scientists: EDWARDS, PETER	
Flt Director: SLOAN / DARBY			Scientists: WELT', ANDRE	
SEB: RICHARDSON, JEFF /			Scientists: PEISCHL, JEFF	
Crew Chief:		Visitors:	/ /	
	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: SENEX ID				
(ie: NOAA2 2418A SANDY)				
Remarks: FOOD DRILL				



N42RF ERROR SUMMARY

SENEX 2013 KMQY

25 June 2013



Flight ID: 20130625H1

<u>Sensor or system</u>	<u>Number or Name</u>
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2X
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2X
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.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/2013/20130625H1

Local Met Data:	<u>Takeoff (1518Z)</u>	<u>Landing (2224Z)</u>
Aircraft Static Pressure	1002.5mb	998.9mb
Tower Pressure (corrected)	1000.9mb	996.7mb

Notes:

Total Measured Dewpoint #2, the primary dewpoint sensor, recorded erroneous data the following times: 19:39:50Z – 19:47:30Z. TDM.1 was used to directly substitute values for TDM.2 during

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.

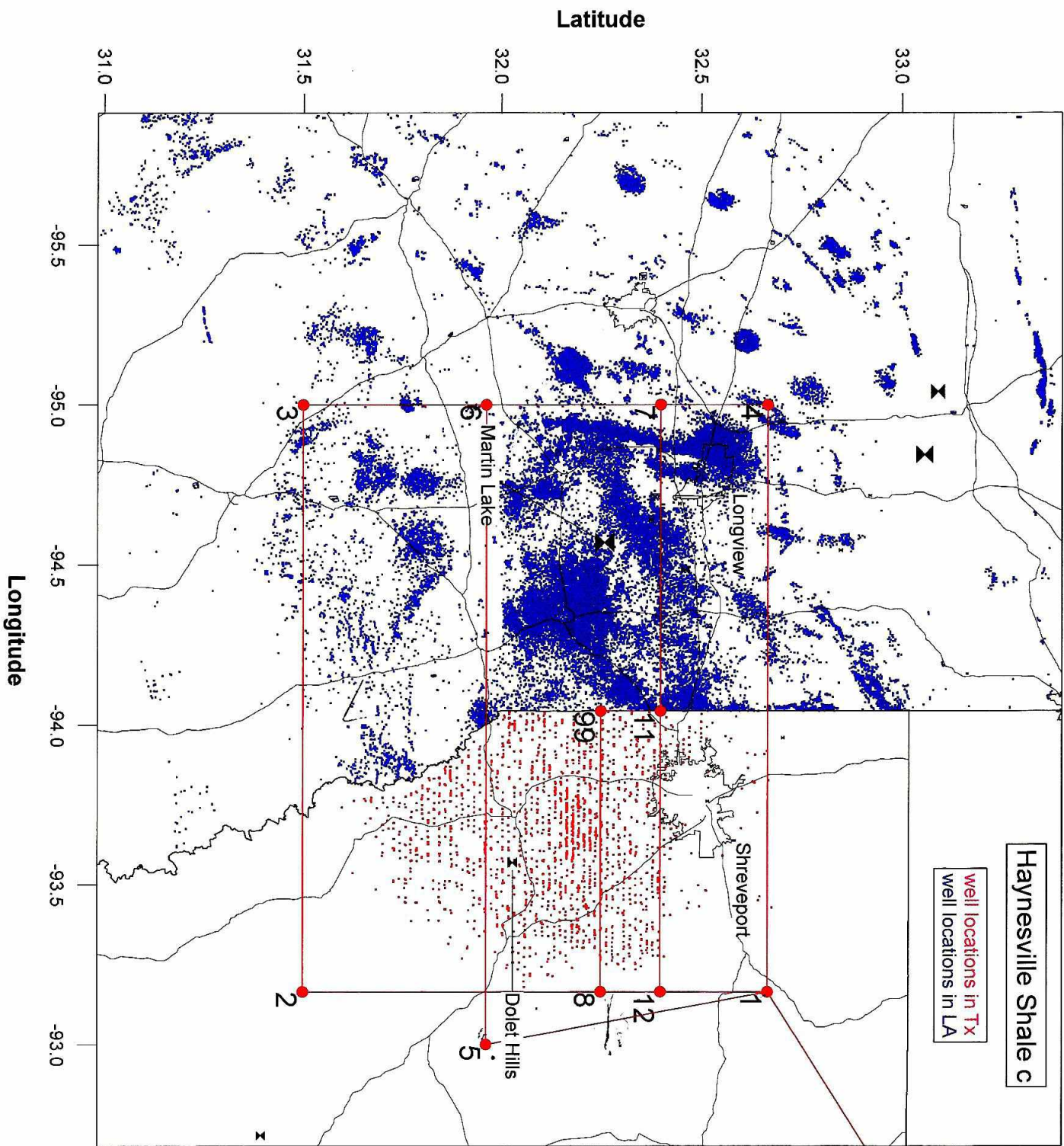
PDALPHA.2 - Radome Attack Differential Pressure Measured
PDBETA.2 - Radome Sideslip Differential Pressure Measured
PDALPHA.1 - Fuselage Attack Differential Pressure Measured
PQALPHA.1 - Fuselage Attack Dynamic Pressure Measured
PDBETA.1 - Fuselage Sideslip Differential Pressure Measured
PQBETA.1 - Fuselage 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

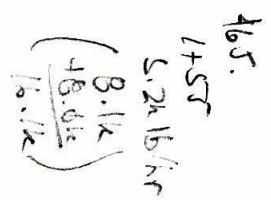


Haynesville Shale c

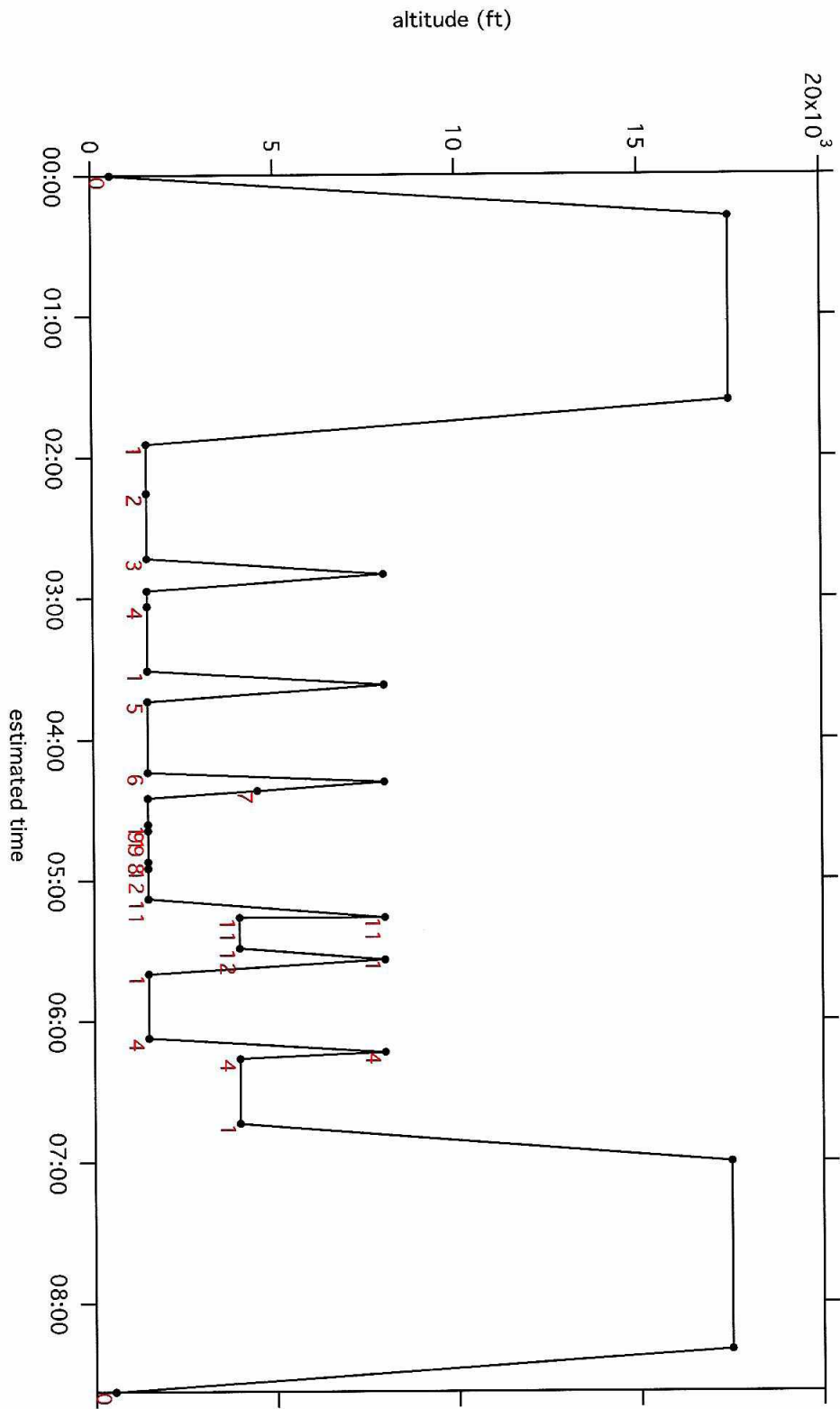
est time	altit ft	Comments	lat deg	lat min	lng deg	lng min	lat	lng	point	AGL MSL
0:00:00	543	KMQY Smyrna	36	0.54	-86	31.2	36.009	-86.52	0	MSL
0:18:00	17500	enroute up								
1:36:00	17500	enroute down								
1:54:16	1500		32	39.96	-93	10	32.666	-93.167	1 AGL	PAPER MILLS / SNAKE
2:15:00	1500		31	30	-93	10	31.5	-93.167	2 AGL	
2:42:49	1500		31	30	-95	0	31.5	-95	3 AGL	
2:49:49	8000	enroute up								
2:56:49	1500	enroute down								
3:03:33	1500		32	39.96	-95	0	32.666	-95	4 AGL	
3:31:00	1500		32	39.96	-93	10	32.666	-93.167	4 AGL	
3:37:00	8000	enroute up & down								
3:43:45	1500		31	57.78	-93	0	31.963	-93	5	
4:13:56	1500		31	57.78	-95	0	31.963	-95	6	
4:18:00	8000	enroute up								
4:21:43	4500	enroute down								
4:24:43	1500	enroute down								
4:36:05	1500		32	24	-95	0	32.4	-95	7 AGL	
4:38:45	1500									
4:51:56	1500		32	24	-94	2.58	32.4	-94.043	11 AGL	
4:54:37	1500		32	15	-94	2.58	32.25	-94.043	99	
5:07:46	1500		32	15	-93	10	32.25	-93.167	8 AGL	
5:15:46	8000	spiral up								
5:15:46	4000	spiral down to within PBL								
5:28:56	4000	enroute up								
5:33:40	8000		32	24	-94	2.58	32.4	-94.043	12 AGL	
5:39:40	1500	spiral down								
6:07:07	1500		32	24	-93	10	32.4	-93.167	11 AGL	
6:13:07	8000	spiral up								
6:16:07	4000	spiral down to within PBL								
6:43:34	4000	within PBL								
7:00:00	17500	enroute up								
8:20:00	17500	enroute down								
8:37:51	543	KMQY Smyrna	36	0.54	-86	31.2	36.009	-86.52	0	AGL

6/25/13

Run HBR
ET 296, 3.6in



Haynesville Shale c



Haynesville Shale c

est time	altit 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	-86.52	0	MSL	
0:18:00	17500	enroute up									
1:36:00	17500	enroute down									
1:54:16	1500		32	39.96	-93	10	32.666	-93.167	1	AGL	✓
2:15:00	1500		31	30	-93	10	31.5	-93.167	2	AGL	✓
2:42:49	1500		31	30	-95	0	31.5	-95	3	AGL	✓
2:49:49	8000	enroute up									
2:56:49	1500	enroute down									
3:03:33	1500		32	39.96	-95	0	32.666	-95	4	AGL	✓
3:31:00	1500		32	39.96	-93	10	32.666	-93.167	1	AGL	✓
3:37:00	8000	enroute up & down									
3:43:45	1500		31	57.78	-93	0	31.963	-93	5		✓
4:13:56	1500		31	57.78	-95	0	31.963	-95	6		✓
4:18:00	8000	enroute up									
4:21:43	4500	enroute down	32	24	-95	0	32.4	-95	7	AGL	✓
4:24:43	1500	enroute down									
4:36:05	1500		32	24	-94	2.58	32.4	-94.043	11	AGL	✓
4:38:45	1500		32	15	-94	2.58	32.25	-94.043	99		✓
4:51:56	1500		32	15	-93	10	32.25	-93.167	8	AGL	✓
4:54:37	1500		32	24	-93	10	32.4	-93.167	12	AGL	✓
5:07:46	1500		32	24	-94	2.58	32.4	-94.043	11	AGL	✓
5:15:46	8000	spiral up	32	24	-94	2.58	32.4	-94.043	11	AGL	✓
5:15:46	4000	spiral down to within PBL	32	24	-94	2.58	32.4	-94.043	11	AGL	✓
5:28:56	4000	enroute up	32	24	-93	10	32.4	-93.167	12	AGL	✓
5:33:40	8000		32	39.96	-93	10	32.666	-93.167	1	AGL	✓
5:39:40	1500	spiral down	32	39.96	-93	10	32.666	-93.167	1	AGL	✓
6:07:07	1500		32	39.96	-95	0	32.666	-95	4	AGL	✓
6:13:07	8000	spiral up	32	39.96	-95	0	32.666	-95	4	AGL	✓
6:16:07	4000	spiral down to within PBL	32	39.96	-95	0	32.666	-95	4	AGL	✓
6:43:34	4000	within PBL	32	39.96	-93	10	32.666	-93.167	1	AGL	✓
7:00:00	17500	enroute up									
8:20:00	17500	enroute down									
8:37:51	543	KMQY Smyrna	36	0.54	-86	31.2	36.009	-86.52	0	AGL	