

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: <u>20130610H1</u>	From: <u>KMQY</u>	To: <u>KMAV</u>
FLT #:	Blk In: <u>2134</u> Z	Lnd Time: <u>2028</u> Z
ETD: Z	Blk Out: <u>1449</u> Z	T/O Time: <u>1455</u> Z
ETE:	Total Blk: <u>6.8</u>	Total Flt: <u>6.6</u>
Sponsoring Org:	Program:	Purpose:

AOC Flight Crew

Aircraft Commander: <u>LIBBEY</u>	Data System: <u>BOSKO</u>
Co-Pilot: <u>MARTIN / KERN</u>	Avaps:
Navigator: <u>JOAN /</u>	System Engineer: <u>PAUL</u>
Flight Eng: <u>HEYSEK /</u>	AA:
Flt Director: <u>SEARS /</u>	AA:
Avionics:	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew on back.

# of people listed on back:

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

ATIS - Takeoff	
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ATIS - Land	
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Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Dropsondes		Good:      Bad:      Sent:
AXBT		

List other data sources on back in Remarks section.

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times:	Fix #	Fix Time
Storm Name: <u>SENEX 3</u>			
Mission ID: _____			

WX 25009 10 mi BKN07

RETURN FM 1900 2410 10617 VCTS BKN035 CB

KM 2360 27005KT SLT 256

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FLT ID: \_\_\_\_\_ T/O Time: \_\_\_\_\_ Z Lnd Time: \_\_\_\_\_ Z

Name (Last, First)	Activity on Aircraft	Affiliation
WARNEKE, CARSTEN		
POLLACK, ILANA		
GORDON, TIM		
LIAO, JIN		
EDWARDS, PETER		

Remarks:



# N42RF ERROR SUMMARY

## SENEX 2013 KMQY

10 June 2013



**Flight ID: 20130610H1**

<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/2013/20130610H1

Local Met Data:	<u>Takeoff</u> (1629Z)	<u>Landing</u> (2255Z)
Aircraft Static Pressure	997.7mb	995.7mb
Tower Pressure (corrected)	999.4mb	997.9mb

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**Notes:**

TDM.3 was unavailable for this flight.

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.

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*Flight Director:*  
*Phone #:*

*Ian Sears*  
*(813) 828-3310 ext. 3039*

# Haynesville Shale

est_time	altit_ft	Comments	lat_deg	lat_min	ing_deg	ing_min	lat	ing	point	AGL_MSL
0:00:00	543	KMQY Smyrna	36	0.54	-86	31.2	36.009	-86.52	0	AGL
0:12:00	12000	enroute up								MSL
0:30:00	12000									MSL
0:36:00	18000	enroute up								MSL
1:46:00	18000	enroute down								MSL
1:54:16	1500									MSL
2:16:47	1500		32	39.96	-93	10	32.666	-93.167	1	AGL
2:44:37	1500		31	24	-93	10	31.4	-93.167	2	AGL
2:51:07	8000	enroute up	31	24	-95	0	31.4	-95	3	AGL
2:57:37	1500	enroute down								
3:07:08	1500		32	39.96	-95	0	32.666	-95	4	AGL
3:34:35	1500		32	39.96	-93	10	32.666	-93.167	1	AGL
3:41:05	8000	enroute up								
3:47:35	1500	enroute down								
3:48:13	1500		31	54	-93	10	31.9	-93.167	5	AGL
4:15:54	1500		31	54	-95	0	31.9	-95	6	AGL
4:22:08	1500		32	15	-95	0	32.25	-95	7	AGL
4:49:43	1500		32	15	-93	10	32.25	-93.167	8	AGL
4:55:56	8000	enroute up	31	54	-93	10	31.9	-93.167	5	AGL
5:02:26	1500	spiral down	31	54	-93	10	31.9	-93.167	5	AGL
5:15:40	1500		31	54	-94	2.58	31.9	-94.043	9	AGL
5:29:18	1500		32	39.96	-94	2.58	32.666	-94.043	10	AGL
5:34:02	8000	enroute up	32	24	-94	2.58	32.4	-94.043	11	AGL
5:40:32	1500	spiral down	32	24	-94	2.58	32.4	-94.043	11	AGL
5:53:42	1500		32	24	-93	10	32.4	-93.167	12	AGL
6:11:42	18000	enroute up								MSL
7:33:37	18000	enroute down								MSL
7:50:37	543	KMQY Smyrna	36	0.54	-86	31.2	36.009	-86.52	0	AGL