

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

FLT ID: 2030612177	From: KMAV	To: KMAV
FLT #:	Blk In: 2036 Z	Lnd Time: 1826 2029
ETD: 1500 Z	Blk Out: 1440 Z	T/O Time: 1448 Z
ETE: 7400	Total Blk: 5.9	Total Flt: 5.6 5.7
Sponsoring Org: OAR	Program: SENEX	Purpose: ATL

AOC Flight Crew

Aircraft Commander: KIBBY	Data System: BOSKO
Co-Pilot: MARTIN, KERNS	Avaps:
Navigator: SLOAN, I	System Engineer: PAUL
Flight Eng: DARBY, I	AA:
Flt Director: SEARS, I	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
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Flight Level Tapes	
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Radar Tapes	
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Dropsondes	Good:	Bad:	Sent:
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AXBT	
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List other data sources on back in Remarks section.

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times:	Fix #	Fix Time
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Storm Name: SENEX 5			
Mission ID:			

86  
48  
38  
89  
48  
41

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

Name (Last, First) Activity on Aircraft Affiliation

GORDON TIM

MIDDLEBROOK ANN

WARDEKE CARSTEN

EDWARDS PETE

POLLACK ILANA

Remarks:



# N42RF ERROR SUMMARY

## SENEX 2013 KMQY

12 June 2013



**Flight ID: 20130612H1**

<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/2013/20130612H1

  

Local Met Data:	<u>Takeoff</u> (1448Z)	<u>Landing</u> (2030Z)
Aircraft Static Pressure	1001.2mb	997.8mb
Tower Pressure (corrected)	998.8mb	995.7mb

**Notes:**

The secondary blended inertial/GPS system did not work properly throughout the flight. The data from that system were not used in any derived parameters.  
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.

*Flight Director:*  
*Phone #:*

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



6/12/13

CLNC ROSOS AF 3.0k 17k 118.4 1646  
- HS LWT 32 \* LT 180 32 CTD (1147)

154d

# PREQS

118.4 DEP  
118.5 TWR  
26.75 MEMPH  
19.2 CHAT  
21.0 ATL  
26.97 APP  
24.2 TRSA  
32.47

Turn Pt	Type	Fix Point Description	Latitude Longitude	Elev M	Aspd Rank	Altitude Wind	Leg Time Clock Time	Leg Dist-KM Total Dist-KM
26	*M 18	AHN/R033023	N 34 15.95 W083 04.49	813FT 5.7W	250T	10000M 347/014		
28	*M 20	DBN/R010016	N 32 49.54 W082 48.23	396F 5.6W	250T	10000M 345/015		
30	*M	SASGY V5 SASGY	N 33 09.03 W083 02.27	554FT 5.6W	250T	16000M 342/014		
32	*M	TRAPI V5 TRAPI	N 33 29.75 W083 09.69	508FT 5.6W	250T	16000M 337/015		
34	*M	PENFI V5 PENFI	N 33 44.77 W083 15.10	544FT 5.6W	250T	16000M 333/015		
36	*M	IRMOS V5 IRMOS	N 34 13.09 W083 26.60	715FT 5.5W	250T	16000M 328/014		
38	*M	AWSON V5 AWSON	N 34 28.82 W083 59.06	1220F 5.2W	250T	16000M 322/013		
40	*M	ETONE V5 ETONE	N 34 44.25 W084 47.67	777FT 4.6W	250T	16000M 315/011		
42	*M	ZIROB V5 ZIROB	N 34 50.43 W084 57.56	905FT 4.5W	250T	16000M 311/010		
44	*M	TOBAY V67 TOBAY	N 35 11.59 W085 38.65	1729F 4.1W	250T	16000M 303/010		
46	*M	SYI V67 SHELBYVILLE	N 35 33.72 W086 26.35	814FT 3.6W	250T	16000M 287/010		

32.25/83.35

START

TAXI 1441 'F' 3607

I 1442

T/O 1448

IV 1456

III 1452 06/12/13 08:31:32

SQ

3535

3307

MQY 7 9000  
16000

M 34

M 33.5

32.5/42.8

32.5/85

LATID 2030



Turn Pt	Type	Fix Point	Latitude	Longitude	Bar	Aspd	Altitude	Leg Time	Leg Dist-KM
	DTD	Description			MV	Bank	Wind	Clock Time	Total Dist-KM
1	ST	KMQY/A	N 36 00.54	W086 31.20	543FT	250T	543M	00+00+00	0.0
*M		SMYRNA			3.6W		261/010	00:00:00	0.0
		level off	N 35 31.56	W086 21.64	892FT	N/A	10000M	00+01+16	8.2
					3.6W		274/010	00:09:27	58.3
4		TOBAY V67	N 35 11.59	W085 38.65	1729F	250T	10000M	00+03+27	27.5
*M		TOBAY			4.1W		298/008	00:18:51	133.2
6		ROJOS/W	N 34 23.90	W085 05.98	662FT	250T	10000M	00+07+52	62.6
*M		ROJOS			4.3W		332/008	00:33:11	247.4
8		LGC/R069024	N 33 11.17	W084 45.03	882FT	250T	10000M	011/009	
*M 2					4.4W				
10		RMG/R076027	N 34 15.99	W084 35.30	958FT	250T	10000M	008/009	
*M 4					4.6W				
12		ATL/R002009	N 33 46.35	W084 25.66	902FT	250T	10000M	355/010	
*M 6					4.7W				
14		ATL/R162028	N 33 11.17	W084 15.94	853FT	250T	10000M	003/010	
*M 8					4.7W				
16		ATL/R023042	N 34 16.07	W084 06.22	1223F	250T	10000M	000/011	
*M 10					5.0W				
18		AHN/R256029	N 33 49.74	W083 53.23	935FT	250T	10000M	348/012	
*M PLUM					5.1W				
20		MCN/R317018	N 32 55.02	W083 53.24	410FT	250T	10000M	356/011	
*M 12					4.9W				
22		AHN/R323024	N 34 16.03	W083 37.01	885FT	250T	10000M	350/012	
*M 14					5.3W				
24		DBN/R306030	N 32 49.50	W083 20.71	357FT	250T	10000M	349/013	
*M 16					5.3W				