

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

FLT ID: <u>203061217</u>	From: <u>KMQR</u>	To: <u>KMQV</u>
FLT #: <u></u>	Blk In: <u>2036</u> z	Lnd Time: <u>1826</u> <u>2029</u> <u>86</u> <u>48</u>
ETD: <u>1500</u> z	Blk Out: <u>1440</u> z	T/O Time: <u>1448</u> z
ETE: <u>7400</u>	Total Blk: <u>5.9</u>	Total Flt: <u>26 527</u> <u>38</u>
Sponsoring Org: <u>OML</u>	Program: <u>SENEX</u>	Purpose: <u>ATL</u>

## AOC Flight Crew

Aircraft Commander: <u>KB3BEP</u>	Data System: <u>bosko</u>
Co-Pilot: <u>MARTIN, KERNIS</u>	Avaps:
Navigator: <u>SLDAN</u> /	System Engineer: <u>PAUL</u>
Flight Eng: <u>DARBY</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				
ATIS - Land				
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: SENEX 5

Mission ID: \_\_\_\_\_

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

FLT ID:	T/O Time:	Z	Lnd Time:	Z
Name (Last, First)	Activity on Aircraft		Affiliation	
GORDON TIM				
MIDDLEBROOK ANN				
WARNEKE CARSTEN				
EDWARDS PETE				
POLACK 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:	Takeoff (1448Z)	Landing (2030Z)
Aircraft Static Pressure	1001.2mb	997.8mb
Tower Pressure (corrected)	998.8mb	995.7mb

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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.

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Flight Director:  
Phone #:

Ian Sears  
(813) 828-3310 ext. 3039

6/12/13

CLNC ROSAS AF 3.0K 17N 118.4 1646  
- HS RWY 32 \* LT 180 32 CTD (147)

1544

FLY QRS

118.4 DEP

118.5 TWR

26.75 MEMPH

19.2 CHAT

21.0 ATL

26.17 APP

24.2 TRSA

32.47

Turn Pt	Type	Fix/Point DID	Fix/Point Description	Latitude Longitude	Elev	Astd MM	Altitude	Leg Time Clock/True	Leg Dist KM	Total Dist KM
22										
26		*M 18	AHN/R033023	N 34 15.95 W083 04.49	813FT	250T	10000M			
					5.7W		347/014			
28										
*M 20		DBN/R010016	SASGY V5	N 32 49.54 W082 48.23	396F	250T	10000M			
			SASGY	W083 02.27	5.6W		342/014			
30										
*M			TRAPI V5	N 33 29.75 W083 09.69	508FT	250T	16000M			
			TRAPI	W083 09.69	5.6W		337/015			
32										
*M			PENFI V5	N 33 44.77 W083 15.10	544FT	250T	16000M			
			PENFI	W083 15.10	5.6W		333/015			
34										
*M			IRMOS V5	N 34 13.09 W083 26.60	715FT	250T	16000M			
			IRMOS	W083 26.60	5.5W		328/014			
36										
*M			AWSON V5	N 34 28.82 W083 59.06	1220F	250T	16000M			
			AWSON	W083 59.06	5.2W		322/013			
38										
*M			ETONE V5	N 34 44.25 W084 47.67	777FT	250T	16000M			
			ETONE	W084 47.67	4.6W		315/011			
40										
*M			ZIROB V5	N 34 50.43 W084 57.56	905FT	250T	16000M			
			ZIROB	W084 57.56	4.5W		311/010			
42										
*M			TOBAY V67	N 35 11.59 W085 38.65	1729F	250T	16000M			
			TOBAY	W085 38.65	4.1W		303/010			
44										
*M			SYI V67	N 35 33.72 W086 26.35	814FT	250T	16000M			
			SHELBYVILLE	W086 26.35	3.6W		287/010			

32.25 / 83.35

START

TAXI 141 'F' 3607

SQ

H 34

32.5 / 82.8

II 142

3307

32.5 / 85

III 143

LATN 2030

M 04 7 9060

H 33.5

IV 1450

16000

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

Turn #	Type	Fix/Point D/F	Description	Latitude Longitude	Alt M	Aspd Bank	Altitude W/rd	Leg Time Clock Time	Leg Dist-KM
1	ST	KMQY/A		N 36 00.54	543FT	250T	543M	00:00:00	0.0
	M	SMYRNA		W086 31.20	3.6W		261/010	00:00:00	0.0
			level off	N 35 31.56	892FT	N/A	10000M	00:01:16	8.2
				W086 21.64	3.6W		274/010	00:09:27	58.3
4		TOBAY V67		N 35 11.59	1729F	250T	10000M	00:03:27	27.5
	M	TOBAY		W085 38.65	4.1W		298/008	00:18:51	133.2
6		ROJOS/W		N 34 23.90	662FT	250T	10000M	00:07:52	62.6
	M	ROJOS		W085 05.98	4.3W		332/008	00:33:11	247.4
8				N 33 11.17	882FT	250T	10000M		
	M	2	LGC/R069024	W084 45.03	4.4W			011/009	
10				N 34 15.99	958FT	250T	10000M		
	M	4	RMG/R076027	W084 35.30	4.6W			008/009	
12				N 33 46.35	902FT	250T	10000M		
	M	6	ATL/R002009	W084 25.66	4.7W			355/010	
14				N 33 11.17	853FT	250T	10000M		
	M	8	ATL/R162028	W084 15.94	4.7W			003/010	
16				N 34 16.07	1223F	250T	10000M		
	M	10	ATL/R023042	W084 06.22	5.0W			000/011	
18				N 33 49.74	935FT	250T	10000M		
	M	PLUM	AHN/R256029	W083 53.23	5.1W			348/012	
20				N 32 55.02	410FT	250T	10000M		
	M	12	MCN/R317018	W083 53.24	4.9W			356/011	
22				N 34 16.03	885FT	250T	10000M		
	M	14	AHN/R325024	W083 37.01	5.3W			350/012	
24				N 32 49.50	357FT	250T	10000M		
	M	16	DBN/R306030	W083 20.71	5.3W			349/013	