

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

FLT ID: 2030529 #1	From: KMCK	To: KMCK
FLT #:	Blk In: 2348 Z	Lnd Time: 2338 Z
ETD: Z	Blk Out: 2024 Z	T/O Time: 2058 Z
ETE:	Total Blk: 3.4	Total Flt: 2.7
Sponsoring Org: OAR	Program: SENEX	Purpose: TEST FLT NEAR JAX

AOC Flight Crew

Aircraft Commander: SWEENEY	Data System: BOSKO
Co-Pilot: KIBBEY /	Avaps:
Navigator: GLOAN / GALLAGHER	System Engineer: PAUL
Flight Eng: DARBY /	AA:
Flt Director: SEMS /	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:			
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Mission ID:			
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FLT ID: T/O Time: Z Lnd Time: Z

Name (Last, First)	Activity on Aircraft	Affiliation
WAGNER NICHOLS LACK DAN	SCI	
MIDDLEBROOK, ANN	SCI	
RYERSON, Tom	SCI	
LOPEZ - HILFIKER,	SCI	
MIN, KYUNG-EUN	SCI	

Remarks:

1300 FT - 457 m
2000 FT - 609 m - 950 mb
GFS PBL HT 9-18 (km)

22022 POINT 4
2206 POINT 5
~~2214~~ 2216 POINT 6
2222 POINT 7
2234 POINT 78
2247 END SPIRALS
LOST DATA STREAM ~~202154~~ 2146-2149

LF DOWN 2210

6-7 UP TO 2000ft

POINT 8 - 2257

EMI - CHECK PRIOR TO FLIGHT

VA-NEG - SS-NEG



N42RF ERROR SUMMARY

SENEX 2013 KMCF

29 May 2013



Flight ID: 20130529H1

<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	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/2013/20130529H1

Local Met Data:	<u>Takeoff (2058Z)</u>	<u>Landing (2338Z)</u>
Aircraft Static Pressure	1018.8mb	NA
Tower Pressure (corrected)	1017.1mb	NA

Notes:

The aircraft data system failed at 21:49:59Z. There are no data aircraft data available after that time.
There are no data available from Novatel GPS sources.
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

est_time	alt_ft	Comments	lat_deg	lat_min	lng_deg	lng_min	lat	lng	point	AGL	MSL
0:00:00	14	KMCF Mac Dill	27	50.96	-82	31.27	27.8493	-82.521	0	MSL	
0:10:00	10000	enroute up								AGL	
0:34:33	1500	enroute down	30	15.06	-81	42.45	30.2509	-81.708	1	AGL	
0:44:33	1500		30	36.68	-81	42.45	30.6113	-81.708	2	AGL	
0:50:57	1500		30	42.08	-81	54.99	30.7014	-81.916	3	AGL	
0:54:32	1500		30	9.65	-81	54.99	30.1608	-81.916	4	AGL	
1:04:09	1500		30	4.24	-82	7.53	30.0707	-82.125	5	AGL	
1:07:44	1500		30	47.49	-82	7.53	30.7915	-82.125	6	AGL	
1:20:34	1500										
1:24:56	1500		31	3.7	-82	16.93	31.0617	-82.282	7	AGL	
1:25:56	2000										
1:35:02	2000										
1:36:02	500	S of Okefenokee NWR spiral down									
1:45:02	10000	spiral up									
1:54:32	1500	spiral down									
2:04:40	1500		29	58.84	-82	16.93	29.9807	-82.282	8	AGL	
2:18:40	15000	enroute up									
2:27:45	15000	enroute down									
2:42:45	14	KMCF Mac Dill	27	50.96	-82	31.27	27.8493	-82.521	0	AGL	

