

Flt ID: 020913H	From: KMCF	To: KMCF
Flt No: 02-76	Blk In: 2040	ATA: 2028
ETD: 1600Z	Blk Out: 1549	ATD: 1601
ETE: 7+00	Blk Time: 4.9	Flt Time: 4.5
Sponsor Org: NOAA/NESDIS	Program: OCEAN WINDS	Purpose: T.S. HANNA

AOC Personnel

AC: KENUL, P	Sys Eng: DEIGADO, J ✓
CP: TEBEEST, R / SILAH, M	Data Sys: M ^C MILLAN, S ✓
Nav: NEWMAN, C ✓	Radar:
FE: WADE, S / D. J.	GPS/BT: PEEK, B ✓
FD: SHEPHERD, T ✓ / FLAHERTY, P ✓	Cld Phys:
Avionics: ROGERS, M ✓	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P ✓	PI	NOAA/NESDIS
CARSWELL, J ✓	Co-PI	UMASS
ZHANG, A ✓	SEMR / CSCAT	↓
ESTABAN, D ✓	↓	↓
BLACK, M ✓	HAPS	NOAA/HRD
ROGERS, ROB ✓	↓	↓
ZEHM, RAY ✓	↓	CIRA
MARTELLO, HEATHER	Reporter / Photog	CARROLLWOOD News

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

43/2500 42/5000

19100

1549

51

17 1715
TEAL 29 2030
1500
NOAA2 WXWXA HANNA

Flt ID: 020913H	Time Off: 1601Z	Time On: 2028
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	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1016.4	30.04	1013.9	29.98

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes		
Video Tapes	4	
AXBT	5	
AXCP		
AXCTD		
Dropsondes	3	2 NESDIS, 1 HRD

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks



NOAA P-3 N42RF
Ocean Winds 2002
T.S. Hanna



Flight ID: H020913

Sensor or system

Number or Name

INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	3 (Buck Research)
Altitude (for vertical wind)	Radar Altitude (RA-159)
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2023.CON

Take off: 1601Z

Land: 2028Z

Notes:

The Radar Altimeter (RA-159) was replaced by the RA-232 during take off and landing due to spiking (155801 - 161000 Take off and 201400 - 203100 Landing).

All other instruments worked optimally during the flight; however, there were multiple times when the dewpoint temperature exceeded ambient temperature resulting in an RH >100%. These times were during heavy rain events (as noted by the Johnson-Williams Liquid Water sensor) and were likely due to a wet-bulb effect on the total temperature sensor. No corrections were made during these events.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!!

Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft Static Pressure	1016.4 mb	1013.9 mb
Corrected Tower Pressure	1017.3 mb	1015.2 mb

Flight Director:	Tom Shepherd
Phone #:	(813) 828-3310 ext. 3053

1709 2738
084 08928w

8925

Flight ID:

NAV LOG

Page ____ of ____

U.S. Dept. of Commerce/NOAA/Airport Operations Center

FEDERAL

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
1549														TAXI 30.04 49K
1604		(GPS)								(INS #1)				T/O
1655	2750.5	86	31.2			2750.0	8630.8			2749.0	8631.5			
1652					CHOP	Ny	RADIO			28N	8615W			CHOP Ny Radio
1707	Fix From AF				2738		089 28 W							
1749		28 50 N												
1810	27	27.6	8908.9			27	26.3	8908.9		27-24.5	8909.5			
1820		2742	88 39			SPLDCH	27.03			88 .64				
1915		27 40.7	87 49.3			2730	8748.6			2737.1	87 49.9			
1919		2738	88 40W			MIF	VIA	TE70		25 44	124.77			
2028														LAND
2040														check
										#				# 2
										LAT	+5			+5
										LONG	0			0
										RGS	0			1
										RE	5			5
										STATUS OF INS	0			0
										500 RUN				TIME

South

27 50

08730

Flight ID: 020913H

Takeoff: 1601

Land: 2028

TT # 1

TD # 3

INE # 2

AZI # 2

Altimeter 159

RA232 subbed for RA159

Take off 155801 - 161000 ✓

Landing 201400 - 203100 ✓

Clean flight

Renav (OVER)

1)	162300	+0.7	+0.1	27 47.0	83 56.4
	171800	+1.3	-0.1	26 54.2	88 10.2
	174800	+2.1	-0.2	26 37.7	89 20.9
	183500	+2.9	-0.4	27 4.0	88 51.5
5)	190500	+3.3	-0.3	27 38.9	88 38.1
	195800	+4.3	-1.1	27 53.9	84 12.2
7)	203100	+4.6	-1.1	27 51.6	82 30.6

N42RF AVAPS DropSonde Log

N42RF Project: HURRICANE 02

Flight ID 620913H

Mission: HANNA

Flight #: 1

System Status: _____

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	003 148 185	1	1745	—	23	ACP		☒
2	003 148 186	2	1803	+0.4	30	ACP	Center FIX	☒
3	003 828 037	3	1820	—	35	ACP		☒
4	003 148 180	4	18	1.2				
5	003 828 243	1						
6								
7								
8								
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