

Flt ID: <i>I 020913</i>	From: <i>KMCF</i>	To: <i>KMCF</i>
Flt No.: <i>02-31</i>	Blk In: <i>2002Z</i>	ATA: <i>1953Z</i>
ETD: <i>1600Z</i>	Blk Out: <i>1545Z</i>	ATD: <i>1556Z</i>
ETE:	Blk Time: <i>4:17 (4.3)</i>	Flt Time: <i>3:59 (4.0)</i>
Sponsor Org: <i>HRD</i>	Program: <i>HURRICANE RESEARCH</i>	Purpose: <i>TS HANNA IN Gulf of Mexico</i>

AOC Personnel

AC: <i>TENNESEN</i> ✓	Sys Eng: <i>SMITH</i> ✓
CP: <i>HALVERSON</i> / <i>STRONG</i> ✓	Data Sys: SMITH
Nav: <i>ADLER</i> ✓	Radar:
FE: <i>FLOYD</i>	GPS/BT: <i>TONG</i> ✓
Avionics: <i>SANS SOUCI</i> ✓	Cld Phys:
FD: <i>DAMIANO</i> ✓	SMITH <i>CURRY</i> ✓

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, P. <i>LEIGHTON, P.</i> ✓	PI <i>HAPS</i>	<i>HRD</i>
<i>BLACK, P.</i> ✓	<i>PI</i>	↓
<i>DODGE, P.</i> ✓	<i>RADAR</i>	
<i>MURILLO, S.</i> ✓	<i>RADAR</i>	
<i>UHLHORN, E.</i> ✓	<i>AXBT</i>	
<i>WALSH, E.</i> ✓	PI <i>SRA</i>	<i>NASA/</i>
<i>HAZARD, J.</i> ✓	<i>OBS</i>	<i>SCRIPTS</i>
<i>WELLS, SMOKEY</i> ✓	<i>Press (Photog)</i>	<i>MAGAZINE REPT</i>

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

13/18Z fix forecast 28.2 89.0

7:30am

IP

NO K LW

AF fix at 1037Z

27 04

89 04

1003mt

14 ACT 3.5K

with Teal 17 heading E from storm decided to start pattern at 5 pt.

1650Z

1758Z Bird strike on nose radome

ABORTED MISSION

AF

1516Z

27°30'

29°30' 1004mt

1709Z

27°35'

1003mt 89°28'

TEAL 17

TEAL 29 later

2030Z

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

AOCWF2

Flt ID: 1020913 Time Off: 1556Z Time On: 1953Z

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	<u>1016.6</u>	<u>30.06</u> / <u>1012.5</u> 30.06 / 1012.5	<u>1013.5</u>	<u>29.95</u> / <u>1013.7</u>

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes		
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT	1 <u>1</u>	<u>chr 16</u>
AXCP		
AXCTD		
Dropsondes		
SONOBUOYS	1	

Video

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

Remarks



NOAA P-3 N43RF
Hurricane Research
TS HANNA



Flight ID: I020913

Sensor or system

INE

Accelerometer

Temperature Probe

Dew Point Probe

Altitude (for vertical wind)

Static Pressure

Dynamic Pressure

Time Source

Constants File

Number or Name

1

1

1

3 (Buck Research)

Radar Altitude (RA-159)

Rosemount Fuselage

Rosemount Fuselage

Micro 99

CO3022.CON

Notes:

MISSION WAS ABORTED DUE TO BIRD STRIKE ON NOSE RADOME.

There were no time/data gaps.

Dewpoint sensor #3 (DW3) was balanced during the time frame 1650Z - 1657Z.

The spike that was generated by this action was removed and patched over.

Between 1643Z - 1723Z dewpoint temperature exceeded ambient temperature due to heavy precipitation.

The King liquid water probe was not operating for the entire mission.

All other instruments worked optimally during the flight.

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	1016.6 mb	1013.5 mb
Corrected Tower Pressure	1017.5 mb	1013.7 mb
Flight Director:	A. Barry Damiano	

Flight ID: I020913

Page 1 of 1

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

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _s	Press. Alt.	Geo. Alt.	Slc Press.	Press. Slc	Dyn. Press	Remarks
162100	2753	8413	278	275	192	17	-0.1	-2.1	4437	4649	1014.5	581.9	70.1	IN CLD
163600	2759	8527	264	261	158	21	4.3	5.2	3819	4028	1012.1	631.4	68.4	RW
165500	2740	8650	236	234	159	14	5.4	3.4	3835	4032	1008.5	629.8	68.2	IN/out CLD
171700	2652	8812	233	235	242	17	6.5	8.7	3823	4006	1004.3	630.7	68.3	IN CLD
174100	2614	8921	1	356	243	25	25.0	23.7	327	301	1008.2	574.7	78.7	CLD
174200	Start leg													
175103	2655	8921	358	356	241	22	25.9	22.5	323	283	1006.6	575.1	78.8	AXBT
1758	Bird strike													
182700	2742	8733	94	104	178	40	24.0	18.4	308	302	1010.8	976.7	67.9	CLD
184600	2746	8620	81	92	175	36	24.2	20.1	304	311	1012.4	977.7	68.4	CLD
190800	2749	8453	92	101	195	29	25.6	19.6	301	318	1013.4	977.4	64.2	CLD
193400	2744	8314	95	102	152	23	24.9	19.6	450	487	1014.6	960.4	68.6	OKN CLD

NOAA/Hurricane Research Division Friday, September 13, 2002 8:37:10 AM
Aircraft: N42/3RF Proposed takeoff: 13/1730Z

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	28 18	87 43	100/90	295.	295.	1:13
2	28 18	90 30		156.	451.	1:52
3	26 46	89 30		108.	559.	2:19
4	28 18	89 30	0/ 0	92.	650.	2:42
5	29 18	89 30	60/ 0	60.	710.	2:57
6	28 59	88 43	60/45	48.	758.	3:09
STEP DESCENT PATTERN ABOUT						2:00
7	MACDILL			355.	1114.	6:38

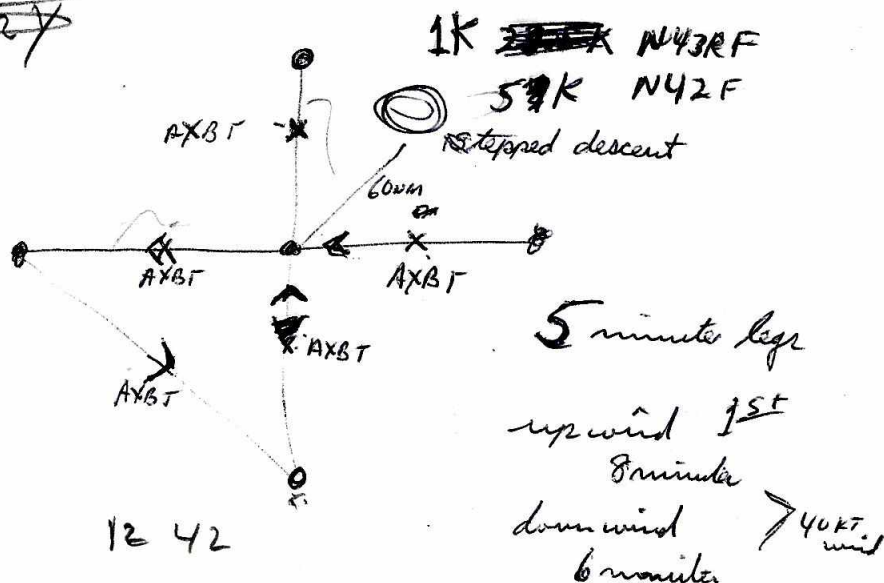
5037

17092
27°38'
8928'

at 3K deep wind leg
sonde

235

174008



ET A2

