

Fit ID: Z020922	From: KMCF	To: KMCF
Fit No.: 02-35	Blk In: 0045Z	ATA: 0035Z
ETD: 1900Z	Blk Out: 1851Z	ATD: 1933Z
ETE:	Blk Time: 5:54 (5.9)	Fit Time: 5:02 (5.0)
Sponsor Org: HRD	Program: HURRICANE RESEARCH	Purpose: H-ISIDORE CBLAST

AOC Personnel

AC: TENNESEN ✓	Sys Eng: SMITH ✓
CP: HALVERSON / STONG ✓	Data Sys: LYNCH ✓
Nav: ADLER ✓	Radar:
FE: FLOYD / CURRY ✓	GPS/BT: TONG ✓
Avionics: SANS SOULT ✓	Cld Phys:
FD: DAMIANO ✓	MITCHELL ✓

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, P. ✓	PI	HRD
ZIPSER, P. ^{GOLDENBERG} ✓ ^{STAN}	OBS	WATKINS HRD
MATSUSOV ✓	DOWN LOOKING CAMERA	SCRIPPS
WALSH, D. ^{WALSH, D.} ✓ ^{COOK}	STAR AXBT	WASA RESEARCH
GRAY, J. ✓	OBS	Dep. Asst. AOML
CANTRELL, MARK	MEDIA	Retired Officer Assoc.
GIRIMONTE, A LT ✓	OBS	NRL PILOT
DODGE, P. ✓	HAPS	HRD

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

unusable. mife. man. don
 Bal DWI 1957Z
 NO KLV
 4 pent 9
 T/O delayed due to APU door problems on N42RF
 20 AXBTs
 SONABOYS 6
 2 bores sonder
 Teal 40
 1830Z → 00Z
 Teal 27 high
 30K-37K alt
 MISSION SHORTENED DUE TO STORM CENTER OVER LAND
 Affix
 1848Z
 2133, 935mm
 8904
 2026Z
 2121
 8910
 933mm

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

AOCWF2

Flt ID: *I020922*Time Off: *1933Z*Time On: *0035Z*

A/C (Take Off)

Wx Stn (Take Off)

A/C (Land)

Wx Stn (Land)

Pressure

*1008.2**29.78/1008.4**1009.0**1009.9/29.83*

Number

Data Disposition/Date/Quality

Slow/Fast Flt Lvl Tapes

2

Radar Tapes

1

Cloud Physics Tapes

Video Tapes

3

AXBT

20

AXCP

AXCTD

Dropsondes

*10**5 messages sent*

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks



NOAA P-3 N43RF
Hurricane Research
H ISIDORE LANDFALL IN YUCATAN



Flight ID: I020922

<u>Sensor or system</u>	<u>Number or Name</u>
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	CO3022.CON

Notes:

The mission was shortened due to the hurricane being over land.

There were no time/data gaps.

The radar altimeter 159, RA159, had a spikes during the following time frames: 1638Z - 1641Z, 2032Z - 2035Z, 2148Z - 2151Z, 225931Z - 220430Z, 232831Z - 233330Z, and 2339Z - 2342Z. These spikes were removed and patched over using the RA232 (radar altimeter 232) and pressure altitude as references.

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	1008.2 mb	1009.0 mb
Corrected Tower Pressure	1008.4 mb	1009.9 mb
Flight Director:	A. Barry Damiano	(813) 828-3310 ext. 3073

Flight ID: J 020922

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U.S. Department of Commerce / NOAA / Air Operations Center

Form 1

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _s	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
195100	2708	8255	226	224	126	14	3.1	-30.4	4432	4639	1004.0	582.5	65.8	HAZE
200600	2622	8345	222	222	123	6	3.5	-17.9	4400	4603	1003.3	584.8	61.2	SCT CLD
202300	2531	8442	225	223	102	16	2.4	-2.2	4453	4648	1002.2	580.9	64.2	SCT CLD
202412	2510	8505	228	227	104	18	3.2	-2.6	4444	4638	1000.4	581.6	63.8	BT 12
203531	2454	8528			101	18						581.6		BT 14
204033	2438	8549			101	23						582.6		BT 12
204530	2423	8610			98	29						582.9		BT 14
205029	2407	8631			105	32						583.3		BT 12
205541	2350	8653			126	27						620.0		BT 14
210013	2337	8712			106	37						780.3		BT 12
210536	2321	8733			116	40				7516		840.7		BT 14
211335	2259	8801			116	42								BT 12 / SONDE 911
212825	2209	8838			114	51				1612		834.0		BT 14 / SONDE
214330	2121	8914												SONDE
	2121	8914												SONDE
214400	2120	8915												SONDE
214759														SONDE
214850														SONDE
	2150	11												SONDE
215516	2142	8939			59	69					984.1			SONDE / BT 14
220643	2217	8951			64	53					992.2			SONDE / BT 12
221500	2151	8935			64	65		1 K			986.2			
222600	2154	8910			78	59		600 K			987.8			
223500	2248	15												
230150	2242	8710			132	28	.9	-0.7	4748	4928	997.1	558.5	79.4	BT 12
230614	2255	8653			123	24	.9	-0.6	4749	4938	997.0	558.5	77.8	BT 14
231100	2308	8634												BT 12
231506	2320	8619			110	24	1.7	-2.0	4750	4948	997.1	558.5	84.6	BT 14
232010	2335	8559												BT 12
232335	2345	8543			109	19	.2	-2.3			1002.0	558.4		BT 12
232745	2358	8526			115	20								BT 12
233153	2411	8509			106	24			4751	4917	999.7	558.5		BT 12
000000	2608	8341	28	33	112	18	7.5	4.2	3385	3586	1007.5	667.4	87.1	BTN CLD

30-3

Turn Pt	Type	Fix/Point	Latitude	Aspd	Altitude	MH	Leg Time	Leg Dist	Leg Fuel
	DTD	Description	Longitude	Bank	Wind	MC	Clock Time	Total Dist	Total Fuel
1	ST	KMCF/A	N 27 50.95		14M	044	00+00+00	0.0	200
*M		MACDILL AFB	W082 31.28			044	00:00:00	0.0	9800
2		SRQ/R200030	N 26 55.25	N/A	9721M	195	00+09+42	56.6	162
*M		SARASOTA	W082 43.63			195	00:09:42	56.6	9638
		level off	N 26 55.25	N/A	15000M	236	00+05+17	30.8	88
*M			W082 43.63			236	00:14:59	87.4	9550
3			N 23 00.00	270T	15000M	235	01+15+35	340.1	1260
*M IP		none	W088 00.00			235	01:30:34	427.6	8290
		down	N 22 29.65	225T	15000M	215	00+09+56	37.2	166
*M			W088 23.51			215	01:40:30	464.8	8124
4			N 21 42.00	N/A	5000M	215	00+10+00	58.3	167
*M 1			W089 00.00			215	01:50:30	523.1	7957
5		W089 00.00	N 22 46.91	225T	5000M	324	00+21+11	79.4	353
*M 2			W089 49.73			324	02:11:41	602.6	7604
6		none	N 21 28.21	225T	5000M	191	00+21+23	80.2	356
*M 3		none	W090 07.65			191	02:33:04	682.8	7248
7		none	N 21 57.01	225T	5000M	076	00+39+05	146.5	651
*M 4		none	W087 33.33			076	03:12:09	829.3	6597
8		none	N 21 42.00	225T	5000M	260	00+21+52	82.0	365
*M 5		none	W089 00.00			260	03:34:01	911.3	6232
		level off	N 22 25.04	N/A	15000M	041	00+10+00	58.3	167
*M			W088 17.43			041	03:44:01	969.6	6065
9		MCF/T	N 27 51.68	270T	15000M	042	01+40+35	452.6	1676
*M		MACDILL	W082 30.81			042	05:24:36	1422.2	4389

~~21.7~~21.7
88.9

15 nm from land

60 ENR
Reg

125 mph

93 mph

W 5W 8 mph

1600

2021

appropriate rain free region after point 5.

14.51

11761/3000

5K

Point 1: -89, 21.7000
Point 2: -90, 23
Point 3: -80.5000, 21.4000
Point 4: -87, 22
Point 5: -89, 21.7000

25 Nov

42

16

30 Second Spacing

② 1000 ft for 15-20 minute

300m wire length
on AXBT

933 12 Nov
14 Nov 43

2p21

20267

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INS PERFORMANCE		
	INS 1	INS 2
BEGIN ALIGN TIME	1615	1615
ALIGN STATUS (0-5)	0	0
END NAV TIME	0036	0036
START NAV TIME	1833	1853
DELTA T	6+03	6+03

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+4.2	-2.5
DELTA LON	+7.7	+1.5
RGS	2	1
RADIAL ERROR	5	3.

[illegible][illegible]