

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

AOCWF1

Flt ID: N051021	From: KTPA	To: KTPA
Flt No: 06-07	Blk In: 1319Z	ATA: 1316Z
ETD: 0600Z	Blk Out: 0533Z	ATD: 0541Z
ETE:	Blk Time: 7:46²⁷ (7.8)	Flt Time: 7:35 (7.6)
Sponsor Org: NHC	Program: HURR. SURV	Purpose: HAWILMA IN NW CARIBBEAN

AOC Personnel

AC: FINKE	Sys Eng: ROLES
CP: FINN	Data Sys: HILL
Nav:	Radar:
FE:	GPS/BT: SMITH
FD: DAMIANO	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
GOLDENBERG, S	HAPS	HRD
HAYWARD, D.	MEDIA	FOX NEWS MIAMI
KENT, D.	MEDIA	LC LC LC

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

1424R WILMA**FEAL 89****11Z****2758' KTPA**
8231'

KTPA 8.0

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AOCWF2

Flt ID: <i>N051021</i>	Time Off: <i>0541Z</i>	Time On: <i>1316Z</i>
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A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
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Pressure	<i>1013.0</i>	<i>29.92 / 1012.3</i>	<i>1013.5</i>	<i>29.95 / 1013.3</i>
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Number	Data Disposition / Date / Quality
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Flt Lvl Tapes	<i>1</i>	
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Radar Tapes		
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Cloud Physics Tapes		
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Video Tapes		
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AXBT		
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AXCP		
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AXCTD		
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Dropsondes	<i>30</i>	<i>28 good ; 1 no winds - 1 late winds</i>
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		<i>28 messages sent</i>
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Video

Forward	Left Side	Right Side	Down	Remarks
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Time On				
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Time Off				
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Rate				
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Remarks	<i>Data sys problem 1030Z</i>
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NOAA G-IV ERROR SUMMARY
HURRICANE 2005
H. WILMA IN NW CARIBBEAN



Flight ID: N051021

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	VEW_PITR, VNS_PITR
Accelerometer	ACINS_PITR
Temperature Probe	AT3
Dew Point Probe	DPRC
Static Pressure	PS2C
Dynamic Pressure	QC2C
Attack Angle	AKRD1
Slip Angle	SSRD1
Vert. Wind	PALT
Constants File	49cal041
Project Directory	/proj/506

Local surface observation not current or unavailable.

Notes:

The G4 was operating out of Tampa International Airport.

There was one data gap: 104017Z – 104040Z.

The Total Temperature #2 (TT2) probe was not available for this mission.

Dynamic sideslip pressure #2, DBP2, produced erroneous output starting at 083205Z and going until 125430Z. Also dynamic sideslip pressure #1, DBP1, produced erroneous output starting at 1057Z and going until 1253Z.

Inertial data output (pitch, roll, groundspeeds) from VEW_PITR and VNS_PITR was erroneous from 103117Z – 103748Z and 103931Z – 104122Z. This in combination with the data gap and DBP1 erroneous output will generate erroneous values for horizontal wind direction and speed (WD,WS) and vertical wind (WI) during the aforementioned time frames.

All other instruments worked optimally during the flight.

	Takeoff	Landing
Aircraft Static Pressure	1013.0mb	1013.5mb
Corrected Tower Pressure	1012.3mb	1013.3mb

Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

VIEW-PETR, VNS-PETR

051021N

Date Gap

ATB

DPRL

QCIM

PS2M

TKS2

AKRD1

SSRD1

104017 - 104040

VIEW-PETR 103117 - 103748

erroneous
date 103931 - 104122

DAP2 flaky from

083205 - 125430Z

-131516Z

WS, WD, WF

WD

1246Z

1251Z

125134 - 125143

DAP1 flaky

1057Z - 1253Z

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: WILMA

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 21/0600Z

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
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1	26 00	85 00	8 34	0:34
2	24 28	84 27	8 47	0:47
3	22 55	83 54	1 00	1:00
4	21 42	85 06	1 14	1:14
5	21 00	83 12	1 29	1:29
6	21 00	81 00	1 46	1:46
7	19 00	81 00	2 02	2:02
8	17 00	83 00	2 25	2:25
9	17 00	85 04	2 41	2:41
10	17 00	87 00	2 57	2:57
11	18 00	87 00	3 05	3:05
12	18 00	85 16	3 21	3:21
13	19 14	83 40	3 36	3:36
14	21 00	83 12	3 51	3:51
15	22 48	85 54	4 17	4:17
16	23 54	86 42	4 28	4:28
17	25 00	87 30	4 38	4:38
18	24 00	89 00	4 52	4:52
19	22 45	89 00	5 02	5:02
20	23 00	90 30	5 14	5:14
21	22 00	92 00	5 28	5:28
22	23 45	93 30	5 46	5:46
23	24 53	91 45	6 02	6:02
24	26 00	90 00	6 18	6:18
25	27 30	91 30	6 34	6:34
26	28 50	90 00	6 48	6:48
27	27 00	88 30		7:04
28	28 00	87 00		7:18
29	28 00	85 00		7:32

- sporadic winds below 10k
no winds at rfc

0644Z

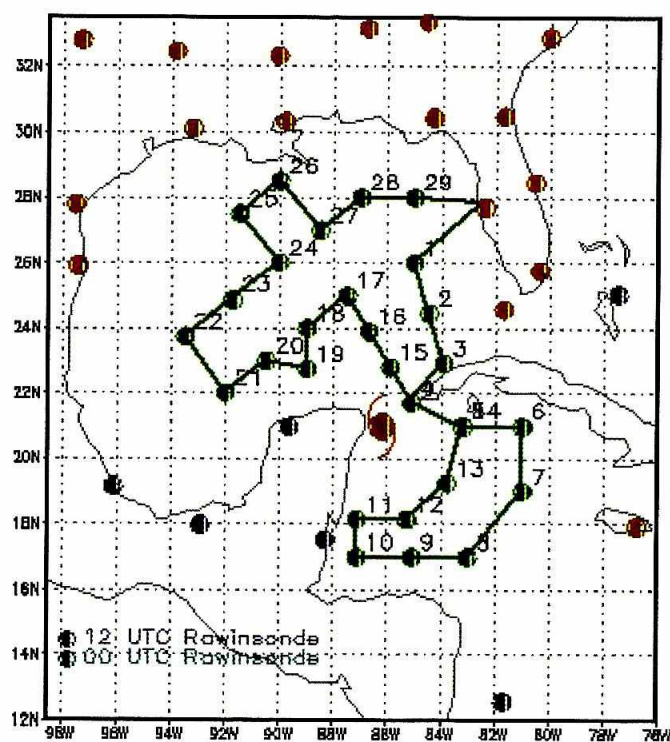
1936

8605

929 mb

SE 130kts

NW 118 KTS



GADS: COLA/IBES

2005-10-18-23:32

222 20
-64

N49RF AVAPS DropSonde Log

N49RF Project: Wilma

Flight ID 051021N1

Mission: _____ Flight #: _____

Launcher S/N: 002

Status: Sys 1 ☒ Sys 2 ☒

P	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	012 225 045	1	0609	0.0	27	J Roles	405.62	✓
2	012 225 049	2	0622	0.0	19	"	402.66	✓
3	011 378 093	1	0636	0.0	26	"	400.70	✓
6	051 926 035	1	0720	0.0	19	"	402.74	✓
7	053 316 126	2	0735	0.0	48	"	400.70	✓
8	002 615 513	1	0757	0.0	27	"	405.76	✓
9	053 116 041	2	0813	0.5	0	"	400.68 Rev F	✓
10	053 156 028	1	0829	0.0	0	"	402.72 Rev F	✓
11	053 170 071	2	0839	0.0	0	"	405.76 Rev F	✓
12	051 926 185	5	0851	0.0	79	Smith	400.74	✓
13	051 920 183	1	0904	0.0	41	Roles	405.68 Lost winds at 690	✓
14	051 924 055	2	0922	0.0	30	"	401.70	✓
14A	053 170 070	1	0936	0.0	0	"	405.68 Rev F 0931	✓
15	044 535 564	2	0946	0.0	0	"	402.74 Rev F	✓
16	012 025 609	3	0956	0.0	45	"	403.70	✓
17	012 225 089	1	1007	0.0	20	"	400.74	✓
18	051 926 040	2	1020	0.0	17	"	405.72 On R Small wind	✓
19	051 926 140	1	1030	0.0	23	"	402.68 On R Large wind	✓
20	012 548 032	3	1042	0.0	60	"	400.74 1035 Incomet	✓
21	012 225 053	1	1055	0.0	26	"	401.66	✓
22	053 166 194	2	1112	0.0	0	"	404.70 Rev F	✓
23	051 926 181	1	1127	0.0	43	"	403.66	✓
24	051 926 043	2	1142	0.0	22	"	400.62 1135	✓
25	012 225 052	1	1158	0.0	27	"	402.68	✓
26	012 615 157	2	1209	0.0	37	"	405.72	✓
27	012 225 209	1	1224	0.0	120?	"	400.76 No Winds	✗
27b	012 225 071	3	1227	0.0	53	"	403.66	✓
28	012 258 013	2	1236	0.0	140	"	402.60	✗
28b	053 316 122	"	1239	0.0			405.7	✓
29	053 166 203						401.66 Rev F	✓
							30 drops 28 good	