

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

AOCWF-1

Flt ID: N051024	From: KTPA KTPA	To: KTPA KSAV
Flt No: 06-12	Blk In: 1250Z	ATA: 1247Z
ETD: 0530Z	Blk Out: 0514Z	ATD: 0522Z
ETE:	Blk Time: 7:36 (7.6)	Flt Time: 7:25 (7.4)
Sponsor Org: NHC	Program: HURR. SURV	Purpose: H. WILMA IN SE GULF OF MEXICO

AOC Personnel

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

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
GOLDENBERG, S	HAPS	HRD

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

2624A WILMA
TEAL 56 leaving at 06Z
TEAL 27 9Z fix

*Prior to T/O it was decided to go to
KSAV instead of coming back to KTPA.*

0638Z
18F 06 00T

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AOCWF2

Flt ID: *N051024* Time Off: *0522Z* Time On: *1247Z*

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	<i>1002.5</i>	<i>29.65 / 1003.1</i>	<i>1005.0</i>	<i>29.74 / 1005.3</i>

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	<i>1</i>	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	<i>30</i>	<i>26 good ; 4 lost winds</i> <i>27 messages sent</i>

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

Remarks	Forward	Left Side	Right Side	Down
<i>OCT 18</i>		<i>28</i>	<i>26</i>	<i>2</i>
<i>20</i>		<i>28</i>	<i>26</i>	<i>2</i>
<i>20⁴²</i>		<i>28</i>	<i>26</i>	<i>2</i>
<i>21'</i>		<i>30</i>	<i>28</i>	<i>2</i>
<i>21⁴²</i>		<i>25</i>	<i>25</i>	<i>0</i>
<i>22</i>		<i>28</i>	<i>24</i>	<i>4</i>
<i>22⁴²</i>		<i>25</i>	<i>22</i>	<i>3</i>
<i>23</i>		<i>20</i>	<i>19</i>	<i>1</i>
<i>24</i>		<i>30</i>	<i>27</i>	<i>3</i>



NOAA G-IV ERROR SUMMARY
HURRICANE 2005
H. WILMA IN SE GULF OF MEXICO



Flight ID: N051024

<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	SSRD2
Vert. Wind	PALT
Constants File	49cal041
Project Directory	/proj/506

Local surface observation not current or unavailable.

Notes:

The G4 departed from Tampa International Airport and landed in Savannah, GA at the Gulfstream facility.

There were no data gaps.

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

Dynamic sideslip pressure #1, DBP1, output erroneous data during the time frame 1102Z – 1207Z.

Static pressure #1, PS1M, displayed a stair-stepping pattern at 0558Z, 0618Z and 0625Z.

All other instruments worked optimally during the flight.

	Takeoff	Landing
Aircraft Static Pressure	1002.5mb	1005.0mb
Corrected Tower Pressure	1003.1mb	1005.3mb

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

N051024

NO DATA GAPS

VPS VIEW - PIR, VNS-PIR

AT3

DPRC

PS2M

@C2M

DBPI erroneous

1102-1207Z

PS1M

5 trainstep

0558Z, 0618Z, 0625,

~~0645Z, 0656Z~~

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: WILMA

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 24/0530Z

DROP LOCATIONS

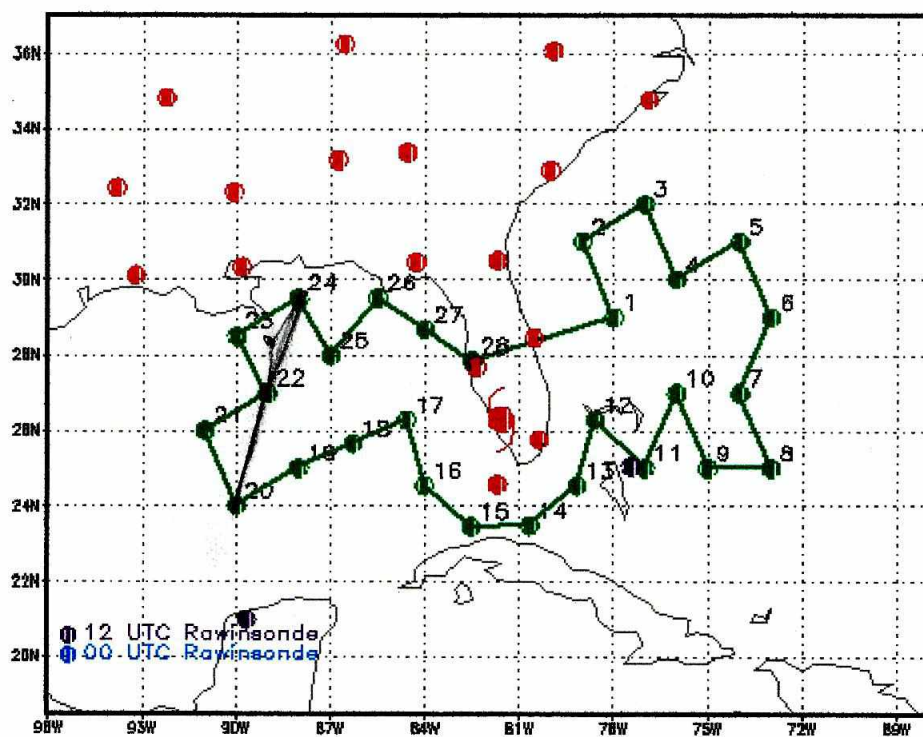
#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
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1	29 00	78 00		0.44
2	31 00	79 00		1:02
3	32 00	77 00		1:18
4	30 00	76 00		1.35
5	31 00	74 00		1.52
6	29 00	73 00		2:00
7	27 00	74 00		2.27
8	25 00	73 00		2.45
9	25 00	75 00		3.00
10	27 00	76 00		3.18
11	25 00	77 00		3.36
12	26 18	78 36		3.52
13	24 32	79 10		4:07
14	23 29	80 41		4.26
15	23 27	82 32		4.35
16	24 32	84 02		4.49
17	26 18	84 36		5:04
18	25 39	85 18		5.19
19	25 00	86 00		5.31
20	24 00	90 00		5.48
21	26 00	91 00		6:06
22	27 00	89 00		6.23
23	28 30	89 00	89 00	6:37
24	29 30	88 00		6:53
25	28 00	87 00		7:08
26	29 30	85 30		7.24
27	28 40	84 01		7.36

25°40'
89°30' → new 24

73

180



GADS: COLA/IBES

2005-10-22-21:48

N49RF AVAPS DropSonde Log

Project: Hurr 2005 Flight ID: 051024N1 Flt Dir: AB Damiano

Mission: Wilma Flight #: 9 Status: Sys 1 ☒ Sys 2 ☒ Launcher S/N: 2

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments /Status/ Failure Reason	\$	GOOD ☒
1	032 418 052	1	0558	Ø	45	JAS	1	N	✓
2	044 535 044	2	0614	Ø	23		2		✓
3	032 345 166	1	0627	Ø	22		3		✓
4	051 926 156	2	0644	Ø	30		4		✓
5	051 946 023	1	0648	Ø	46		DROB 4 BU		✓
6	032 418 015	3	0657	Ø	56				✓
7	033 418 048	1	0714	0.5			0/8 SATS - NO WINDS		B
8	051 926 127	2	0715	Ø	45				✓
9	044 535 153	3	0732	0.5	40				✓
10	033 518 044	1	0749	Ø	19				✓
11	032 418 049	2	0803	Ø	41		DROB POINT 9		✓
12	051 926 130	1	0819	Ø	48		DP 10		✓
13	053 416 338	2	0835	Ø	Ø		Rev F		✓
14	053 416 017	1	0850	Ø	Ø		Rev F		✓
15	044 535 154	2	0905	Ø	38		DP 13		✓
16	033 418 037	1	0920	Ø	32		DP 14		✓
17	041 345 062	2	0935	Ø	<10		DP 15		✓
18	044 535 026	1	0949	Ø	21		DP 16		✓
19	032 418 057	2	1003	Ø	46		DP 17		✓
20	051 946 016	1	1017	Ø	22		DP 18		✓
21	051 946 024	2	1031	Ø	<20		DP 19 - WINDS FAILED @ 825 MB		✓
22	033 518 038	1	1049	Ø	23		DP 20		✓
23	051 926 135	2	1100	Ø	43		21		✓
24	053 416 099	1	1110	.4	Ø		22		✓
25	053 416 217	2	1121	Ø	30		INT WINDS - 23		✓
26	053 416 316	3	1126	Ø			23 BU - LATE WINDS		B
27	053 116 060	1	1132	Ø	Ø	**	WINDS FAILED @ 460 MB		B
28	053 170 082	6	1145	0.5	Ø		LS ONLY DROP 25		✓
29	053 316 022	1	1159	Ø	10		DROB 26		✓
30	053 416 016	2	1210	Ø	Ø		DROB 27		✓
31									
32									
33									

\$ Codes A = AOC N = NHC/NWS H = HRD OW = NESDIS

** AVAPS UBLOX WIND FAILURE - REBOOTED PL

30 Sondes - 27 Good