



NOAA P-3 N43RF

Hurricane Rita Flight 3



Flight ID: 050922I

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

2

2

1

2 (Edgetech)

Radar Altimeter 159

Rosemount Fuselage

Rosemount Fuselage 1281

Micro 99

CO3051.CON

Notes:

There was one time data/gap during this flight which occurred from 164103Z-164110Z.

The difference in values between the dynamic attack pressure from the radome and the fuselage is greater than 20 mb. No corrections were made to the data.

Data from radar altimeter 232 was substituted into radar altimeter 159 from 130921Z-131300Z and from 222101Z-222400Z.

There were numerous times during the flight where the dewpoint temperature exceeded ambient temperature resulting in RH>100%. This was likely due to rain, a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. Edits were made to dewpoint sensor number two during the following times to bring the RH values below 120%; 140351Z-140420Z, 145715Z-145850Z, 153951Z-154500Z, 162345Z-162425Z, and from 212035Z-212200Z.

The King Liquid Water sensor was not operating during this 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	1012.9 mb	1010.8 mb
Corrected Tower Pressure	1013.2 mb	1011.9 mb

Flight Director: Martin Mayeaux (813) 828-3310 ext. 3086

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 050922I	From: Kmcf	To: Kmcf
Flt No: 05-063	In: 2231Z	On: 2221Z
ETD: 1300 Z	Out: 1300	Off: 1312
ETE: 9+00	Blk Time: 9+31(9.5) Hrs	Flt Time: 9+09(9.2) Hrs
Sponsoring Org: NHC	Program: Recco	Purpose: Rita (cat 5)

AOC Flight Crew

Aircraft Commander: Tebrest	Data System: Lynch
Co-Pilot: Nelson	AVAPS: Barf
Navigator: Callagher	System Engineer:
Flight Eng: Floyd	AA:
Flight Director: Mayeaux Damiano	AA:
Avionics: Sansucci	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Potter, Mark	obs	Today Show/NBC
Sasson, Aaron	obs	Today Show/NBC
Muillo, S	Sci	HRD
Rogers, R	Sci	HRD
Walsh, E	Sci	Nasa/NOAA
Jorgensen, D	Sci	Ncar/NSSL
Uhlhorn, E	Sci	HRD
Ortt, Deric	Sci	Rasmus
Zhao, Wai	Sci	Rasmus

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: Rita

Mission ID: Non93 1818H Rita

15, 18, 21Z fixs / 5kmr

18AXBTS

AF: Teal 50 - now - 12Z

AF: next teal will be in at 23Z

NRL Brier - 1430Z

How has the ride been
10K? we will fly Radar

5kmr data: X Pattern.
Rita - 89Tm - 3RD stringstaver
140KTS - 165KTS flight level
eyewall replacement cycle
W-nw - bring E of Galveston Bay.

(See reverse for additional remarks)

Recco Times		Fix #	Fix Time
9/2043Z	2550	1745Z	1449Z
9/11-03	8925	2534	2518 N
		8901	8838 W
		1913Z	51619Z
		2544	2526 8849
		8913	913 mb
		913	915 mb

CN-DUT-14Z

The ride - 2-3 bumps/high end moderate in eye wall

10K Radar - N43

18 mile eye 25.1 88.7

285/8KTS

240 705KTS at 125mb above surface NE

Each eye wall center drop

Prior NE & NW quadrants

Teal 99 - may be out there. they were yesterday

Teal - 700mb pressure in eye 7000 ft.

18 AXBTS - Belly loaded

U.S. DEP'T OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER

FLT ID: 050922J TIME OFF: 1312 Z TIME ON: 2221 Z

	A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure	<u>1012.4</u>	<u>2992</u>	<u>1010.8</u>	<u>2988</u>

ATIS - Takeoff 1055Z 09011KT 75m fcrw050 ovc200 26/25 A2989

ATIS - Land 2055Z - 08009KT 75m fcrw025 SCT120 ovc200 28/25 A2988

Data Source	Number	Data Disposition / Date / Quality	
Flight Level Tapes			
Radar Tapes			
Cloud Physics Tapes / Cds			
Video Tapes			
Dropsondes	<u>36</u>	Good: <u>34</u> Bad: <u>2</u> Total: <u>NIX 14 Rainx14</u>	
AXBT	<u>18</u>	<u>14</u> <u>2 bad Rainx</u> <u>8 hrd</u>	
AXCP			
AXCTD			
SONOBUOY			

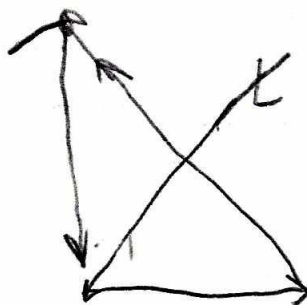
REMARKS:

1 Box Rainx SP: 25°N 88°45'W Teal 99 on station 1830-12K

1 Box NHC

BTS-18

2620-8719



2654 9033

2262

(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

[illegible]

34 OF 36 GOOD

NOAA • AOC • SED
N43RF AVAPS DROP LOG

Project : Hurricane '05 / RAINEX

Mission : RITA

Flight ID : 050922

Take Off : 1312Z

Landing : 2220Z

Flt Dir : MARTY

Launcher S/N: _____

	Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments	Good ?
hrd	1	002 615 518	1	0	1438	26	DSJ		✓
rainex	2	043 615 137	3	0	1446	0			✓
nhe	3	011 378 083	2	0	1447	0			✓
phe	4	002 158 070	1	0	1449	0			✓
nhe	5	012 025 038	3	0	1458	32			✓
rainex	6	044 535 006	1	0	1458				✓
rainex	7	051 926 067	2	0	1504	3			✓
hrd	8	011 345 126	1	0	1509	34			✓
hrd	9	011 378 204	3	0	1515	26			✓
hrd	10	011 378 082	1	0	1523	21			✓
hrd	11	012 025 041	1	0	1601	28			✓
rainex	12	044 535 050	2	0	1609	✓			✓
rainex	13	044 535 574	1	0	1613	✓			✓
nhe	14	011 838 035	3	0	1614	40			✓
nhe	15	011 245 470	3	0	1619	32			✓
nhe	16	011 378 079	2	0	1623	16			✓
rainex	17	051 926 203	1	0	1624				✓
rainex	18	051 946 051	3	0	1630				✓
hrd	19	010 748 096	1	0	1635				✓
hrd	20	011 378 081	2	0	1642				✓
hrd	21	012 025 042	1	0	1648				✓
rainex	22	043 845 187	1	0	1739			NO LAUNCH DETECT	NO
rainex	23	053 166 112	2	0	1741			NO LAUNCH DETECT	NO
nhe	24	011 378 080	3	0	1745				✓
nhe	25	012 025 067	4	0	1753				✓
rainex	26	053 166 167	1	0	1756				✓
rainex	27	053 166 065	1	0	1907				✓
rainex	28	053 166 069	2	0	1909				✓
hce	29	012 025 039	3	0	1911				✓
nhe	30	012 025 036	4	0	1913				✓
nhe	31	012 625 023	1	0	1915				✓
rainex	32	053 166 066	2	0	1919				✓
rainex	33	053 166 030	3	0	1920				✓
nhe	34	012 625 035	1	0	2040				✓

(5) PENNIES

DURY

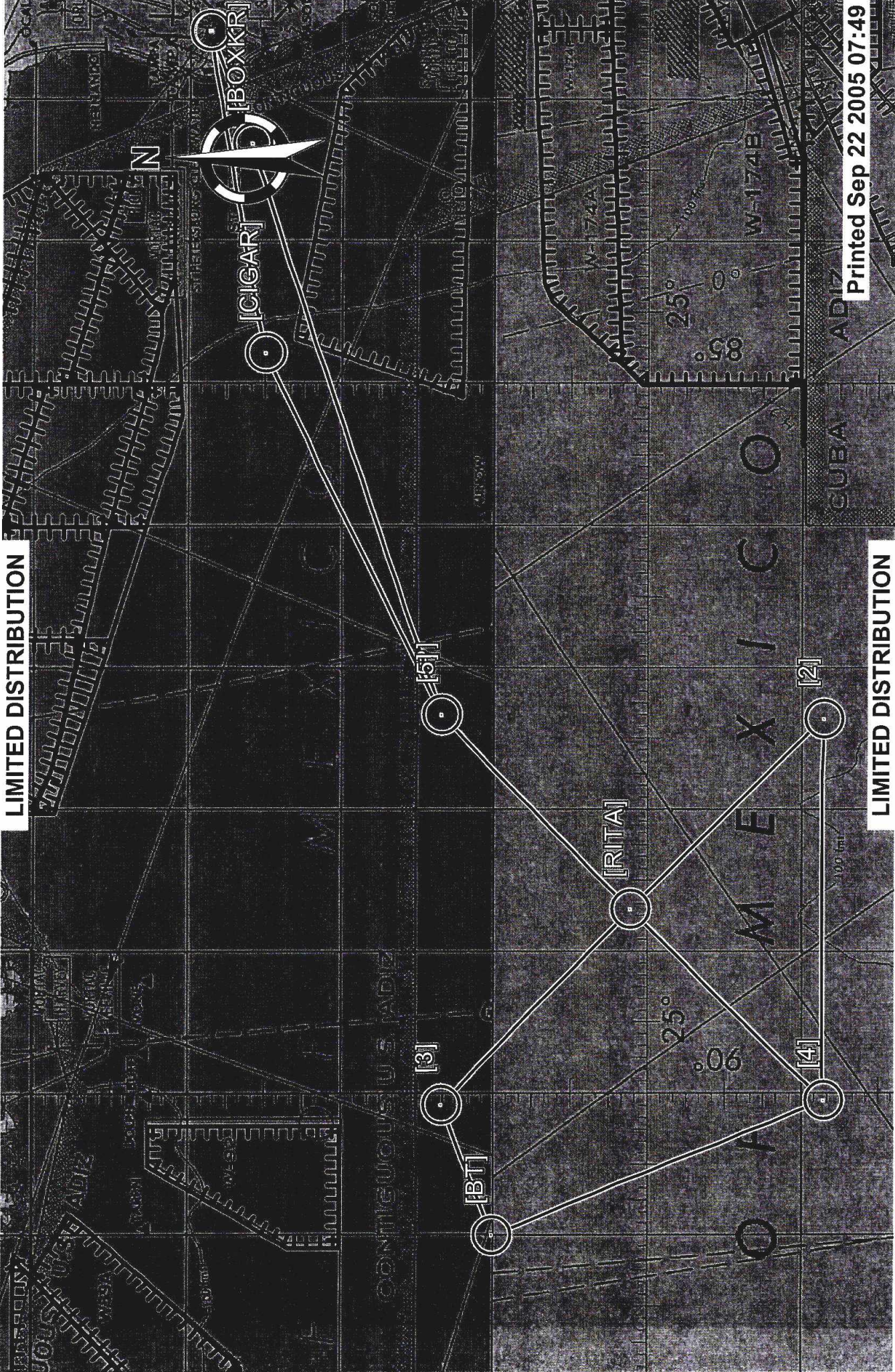
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Drop Station Operator Notes

AVAPS Pre-Flight Check:

AVAPS Launch:

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