



NOAA P-3 N43RF Hurricane Rita Flight 2



Flight ID: 050920I

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 were several time data/gaps during this flight which occurred from 145221Z-145240Z, 160821Z-160830Z, 181931Z-181950Z, 182001Z-182010Z, 182031Z-182040Z.

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 144801Z-145230Z and from 191901Z-192200Z.

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. No edits were made to the data to correct any of these issues.

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	1015.0 mb	1013.5 mb
Corrected Tower Pressure	1016.3 mb	1013.9 mb

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

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

FLT ID: 050920I	From: kmcf	To: kmcf
Flt No: 05-061	In: 1931Z	On: 1919Z
ETD: 1500Z	Out: 1440	Off: 1451
ETE: 5+00	Blk Time: 4+51 (4.9) Hrs	Flt Time: 4+28 (4.5) Hrs
Sponsoring Org: NHC	Program: Recco	Purpose: Rita

AOC Flight Crew

Aircraft Commander: Strong	Data System: Lynch
Co-Pilot: Silah	AVAPS: Tong
Navigator: Siegel	System Engineer:
Flight Eng: Floyd / Klippel	AA:
Flight Director: Mayeaux / Damiano	AA:
Avionics: Sans Souci	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Chris Chmura	Media	Tampa Tribune / Channel 8
Jeff Davis	media	Orlando County Music
Black, M	obs/sci	hrcd
Rogers, R	obs/sci	hrcd
Mull, W, S	obs/sci	hrcd
Tripoli, Greg	obs/sci	University Wisconsin
Martin, C	obs/sci	Aoc

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

Storm Name: Rita

Mission ID: NOAA 3 1118A Rita

1 Alpha Pattern Come home - 1 Center Drop - 1 Drop North side, Center fix
105 mile legs - 8000 ft. Shorten if necessary

Total 10 until 18Z
5000 ft. 212-32

25°14' 82°34'

(See reverse for additional remarks)

10000 ft. 1815Z

Recco setup 1820Z

Recco Times

1 box HED Drop - Around Key West.
1 box NHC

Fix #

Fix Time

1 1601Z 23°49'
979ms 81°10'

2 1722Z 972ms
23°46' 81°29'

3 23°50' 970ms
81°38' Extra
1815Z

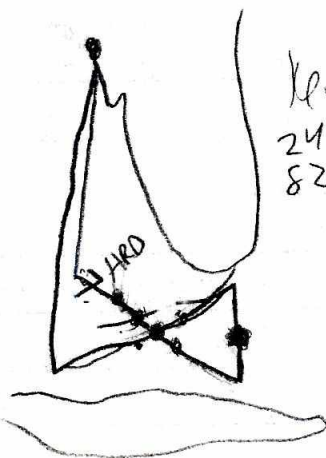
23°27' 83°22'

U.S. DEPT OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER

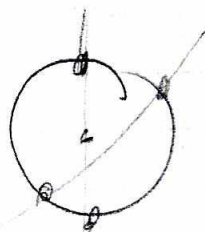
FLT ID: 050920I	TIME OFF: 1451 Z	TIME ON: 1919 Z
	A/C - Takeoff	WX Station - Takeoff
Pressure	1015.0	3001
	A/C - Land	WX Station - Land
	10135	2994
ATIS - Takeoff	1355Z 04016G22kt 7sm SCT050 29/24 A3001	
ATIS - Land	1826Z 06016G23kt 7sm SCT025CB BKN100 BKN250 27/26 A2994	

Data Source	Number	VCS Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / Cds		
Video Tapes		
Dropsondes	9	Good: 7 Bad: 2 Total: 9
AXBT		2 NHC 1 AOC BHRD
AXCP		
AXCTD		
SONOBUOY		

REMARKS:



*Key West
2436
8235*



1554

7812 7923

Ne 2503 7949

280 12

TIME REMAINING

60K

11+00	10+00	9+00	8+00	7+00	6+00	5+00	4+00	3+00	2+00
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1545
34.4
1+00

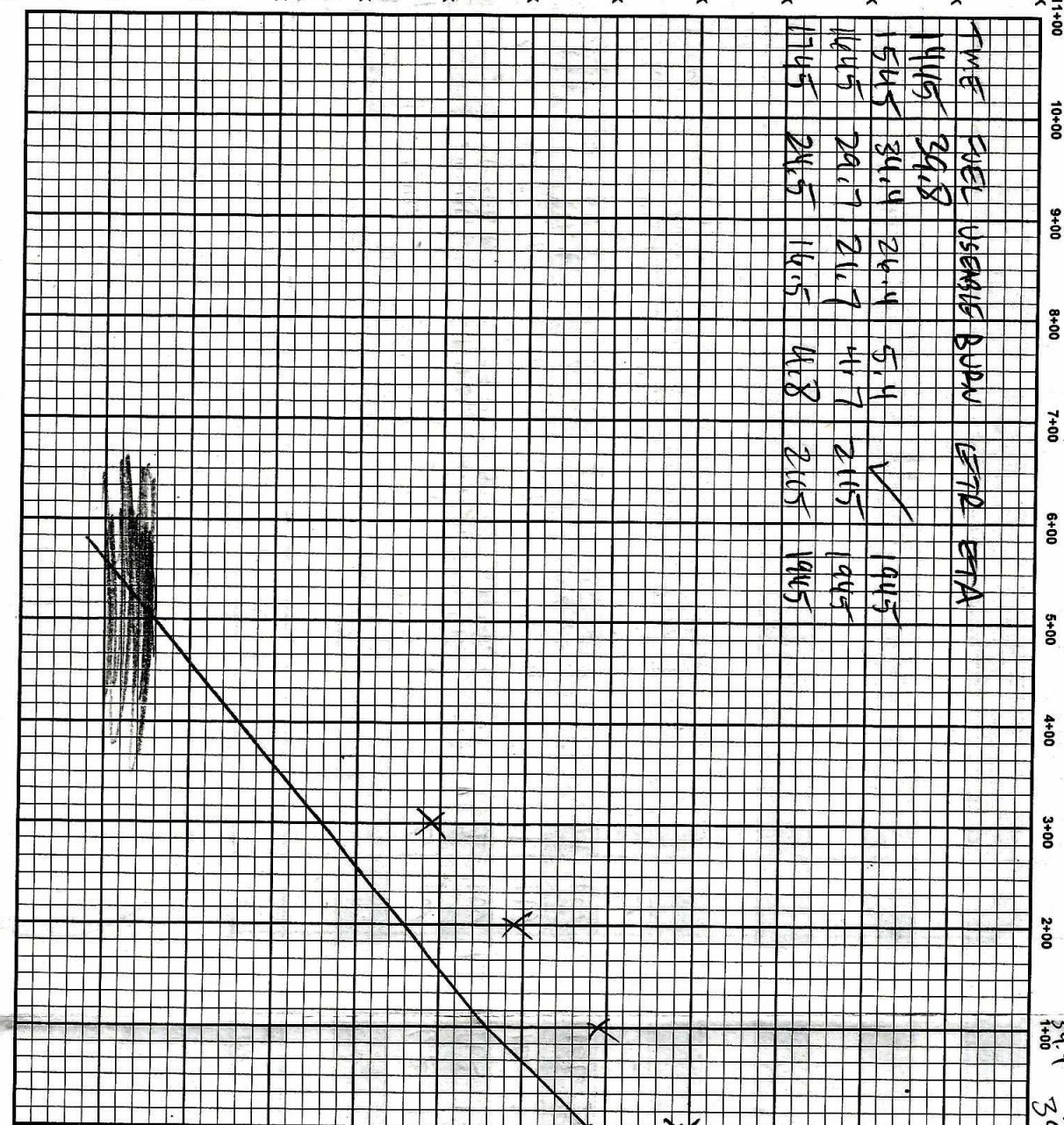
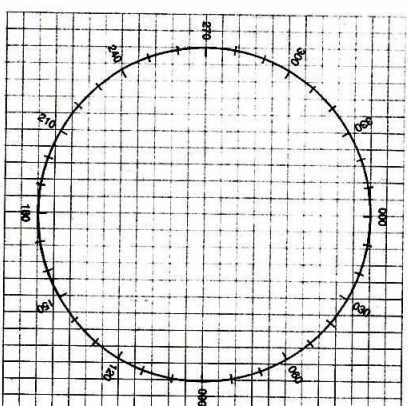
1445
34.8

TACTICAL (OFFSTA TO DESTINATION)
4 ENG 3 ENG

CEX SIGHT	
GMT	
GHA	
CORR	
GHA	
LONG +W -E	
EXACT LHA	
LAT	
BODY	
DEC	
HC/D	
CORR	
HC	
Z	
ZN	

DISTANCE	(OFFSTA TO DEST)	ENROUTE TIME	(OFFSTA TO DEST)	BURN RATE	(LBS/HR)	ENROUTE FUEL REQUIRED	RESERVE AT DESTINATION	FUEL AT OFFSTA
				4500	5500			

POINT OF SAFE RETURN	
4 ENG 3 ENG	
ETP DISTANCE (TO DEPARTURE)	
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	
FUEL REQUIRED	
RESERVE AT DEPARTURE	
PSR FUEL	



F ² FACTOR				
ALT	200	250	300	350
10,000	1.0	1.0	.99	.99
20,000	.99	.98	.97	.97
30,000	.97	.96	.95	.94
40,000	.96	.94	.92	.90

TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS

$$ETP = .5(TOTAL\ DISTANCE \times OUTBOUND\ WIND\ FACTOR),$$

DISTANCE REMAINING

NOAA • AOC • SED
N43RF AVAPS DROP LOG

Mission : T.S. Ribbon

Flight ID : 05 0920i

Landing :_____

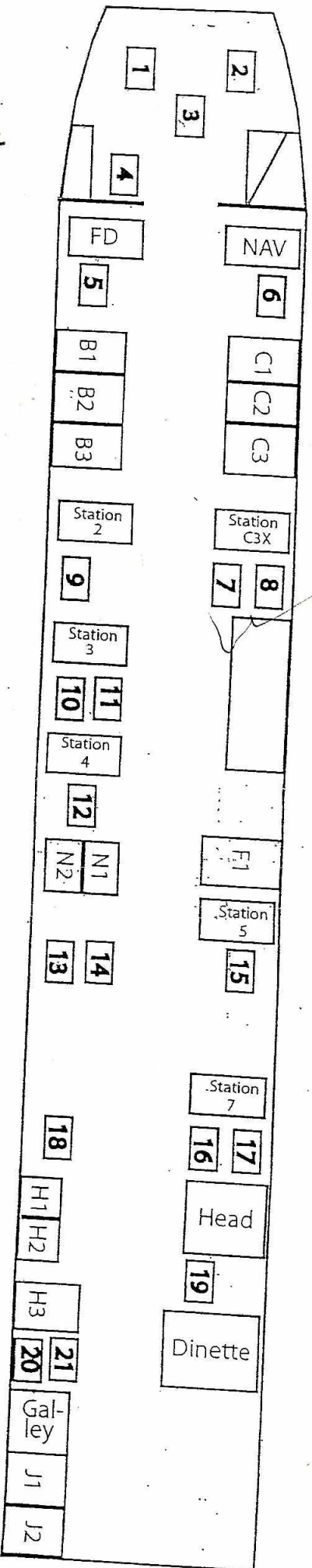
Flt Dir : MM

Launcher S/N:

[illegible]

NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 0509201



1. Strong
PILOT

2. Silva
COPILOT

3. Floyd
FLIGHT ENGINEER

4. Chmura
STATION 1

5. Mayer
FLIGHT DIRECTOR

6. Siegel
NAVIGATOR

7. Royce
STATION C3X

8. Damann
STATION C3X

9. Tripp
STATION 2

10. Black
STATION 3

11. Muller
STATION 3

12. Lynch
STATION 4

13. Davis
PROJECT SEAT

14. Kelley
PROJECT SEAT

15. Tong
STATION 5

16. Martin
STATION 7

17. _____
STATION 7

18. Sims
STATION 8

19. _____
DINETTE

20. _____
GALLEY

21. _____
GALLEY

Hurricane Rita 050920i

