



NOAA P-3 N43RF

Katrina Recco Flight



Flight ID: 050825I

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 glitch during this flight which occurred between 162511Z and 162520Z.

Data from radar altimeter 232 was replaced with radar altimeter 159 from 210900Z-211200Z.

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.

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 to dewpoint sensor number two were made between 134430Z-134615Z and 152105Z-152135Z to bring the relative humidity values below 120%.

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	1013.3 mb	1009.8 mb
Corrected Tower Pressure	1013.5 mb	1011.8 mb

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

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

AOCWF1

Flt ID: F050825	From: KMCF	To: KMCF
Flt No: 05-045	Blk In: 2118Z	ATA: 2109
ETD: 1330Z	Blk Out: 1259Z	ATD: 1310Z
ETE:	Blk Time: 8:19 (8.3)	Flt Time: 7:59 (8.0)
Sponsor Org: NHC	Program: HVAR. RECON	Purpose: TS KATRINA EAST OF FT. LAUDERDALE

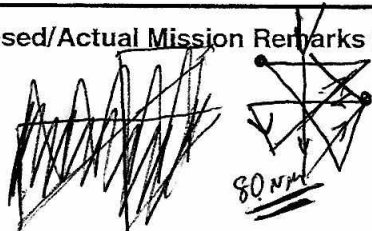
AOC Personnel

AC: SILAH	Sys Eng:
CP: STRONG / NELSON	Data Sys: LYNCH
Nav: SIEGEL	Radar:
FE: BAST BAST / BAST	GPS/BT: OLNEY
FD: DAMIANO / MAYEAUX	Cld Phys:
Avionics: SANS SOUCI	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
GRAMACHE, J.	RADAR	HRD
ROGERS, R.	OBS	HRD
SMULL, B.		UW

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #) NOAA3 0612A KATRINA

275/660 nm
to W26r2 15Z
2910304.8 U
122.925 V19 sander
available

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

AOCWF2

Flt ID:

1050825

Time Off:

1310Z

Time On:

2109

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1013.3

29.93

1009.4

2988

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

18

8 good / 8 bad

1 AOC 15 NHC

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

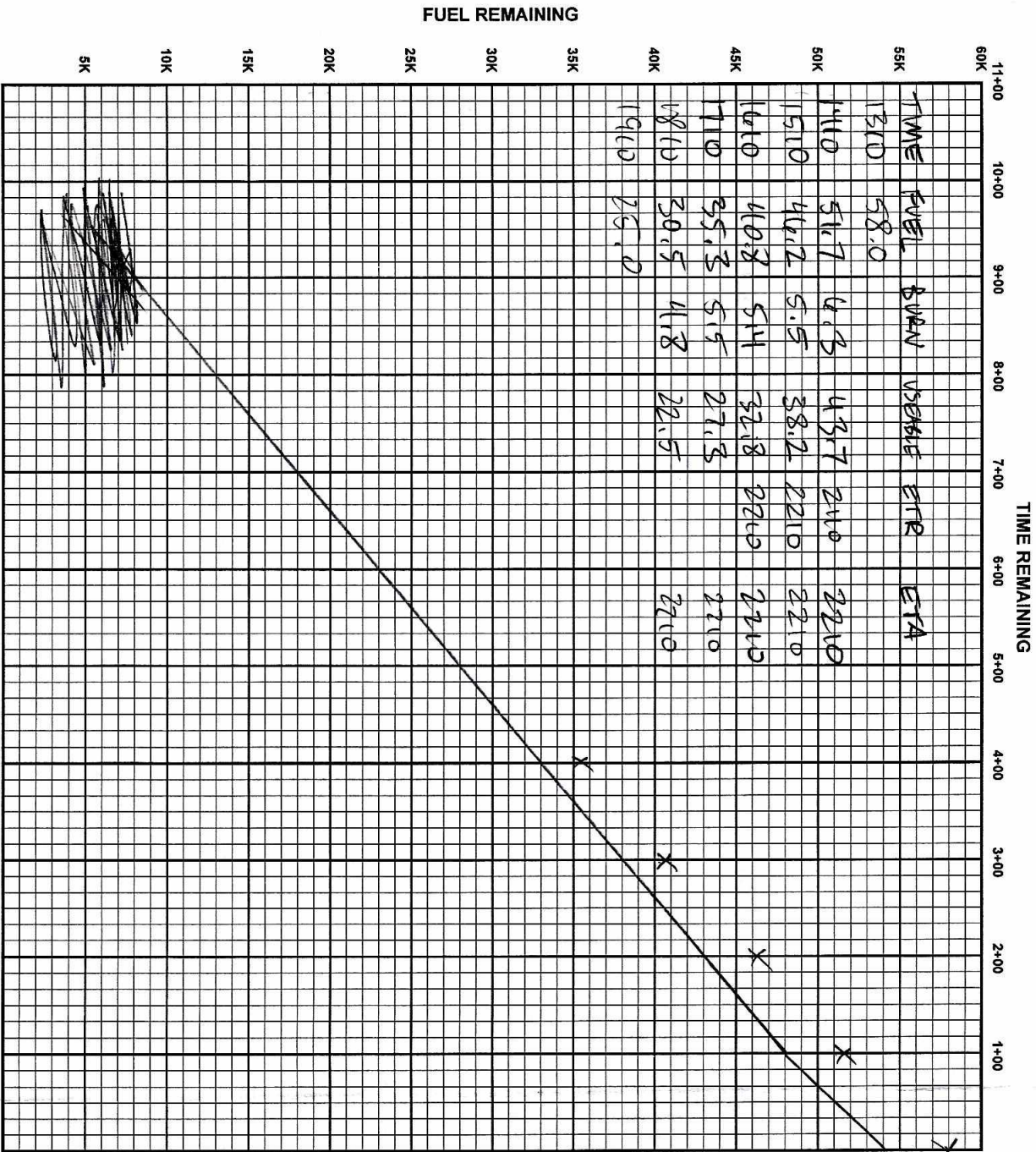
Rate

Remarks

1421Z
26°14'N
79°14'W1533Z
26°13'N
79°20'W1618Z
26°12'N
79°25'W1718Z
26°12'N
79°30'W1848Z
26°09'N
79°42'W2014Z
26°03'N
79°30'W

3066

RANGE CONTROL GRAPH



ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

DISTANCE REMAINING

WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.06	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

ENROUTE FUEL	
ENROUTE TIME	9:40.0
ENROUTE FUEL (6K 5K 4 SK RULE)	46.0
RESERVE AT DESTINATION	8.0
REQUIRED RAMP	54.0
ACTUAL RAMP FUEL	58.0

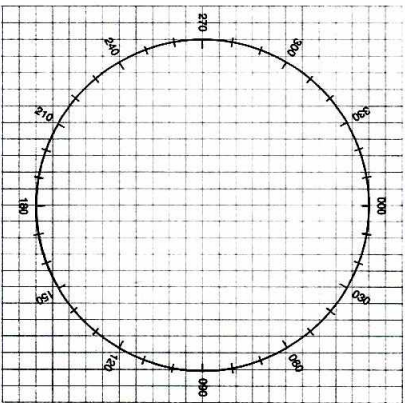
TACTICAL (OFFSTA TO DESTINATION)	
DISTANCE (OFFSTA TO DEST)	
ENROUTE TIME (OFFSTA TO DEST)	
BURN RATE (LBS/HR)	4500 5500
ENROUTE FUEL REQUIRED	
RESERVE AT DESTINATION	
FUEL AT OFFSTA	

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	4500 5500
FUEL REQUIRED	
RESERVE AT DEPARTURE	
PSR FUEL	

CEX - TRUE BEARING METHOD			
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

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

CEX - ERB METHOD			
COMPASS TYPE	INS1	INS2	WET
MIRB (DIAL 000)			
+ ZN			
= MTH			
MCH (READING)			
CE			
- VAR			
= DEV			



P-F FACTOR					
PRESS	200	250	300	350	
ALT					
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
1515	217	050			
				+24	236
					235

N43RF AVAPS DROP LOG

Project : Hurricane '05 / RAINEX

Mission : ~~KATRINA~~
DHC / ADC

Flight ID : 050825/

Take Off : _____

Landing :

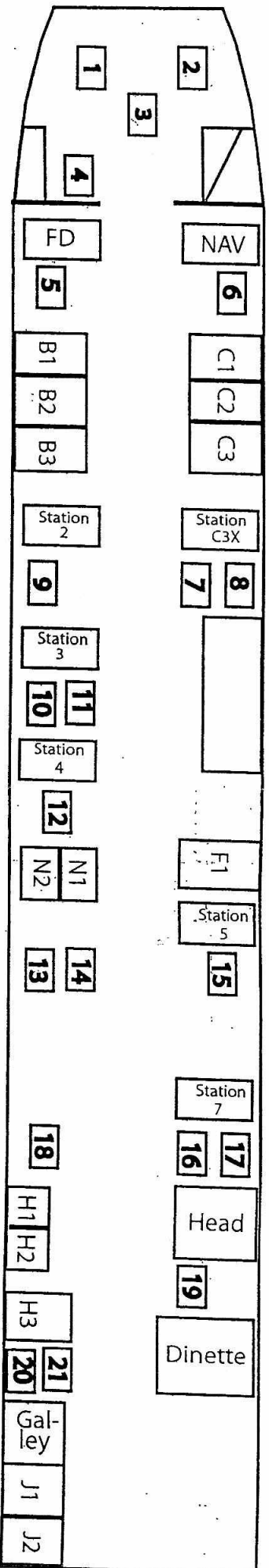
Flt Dir : DAMIANO
MEVHEAU

Launcher S/N: 2

[illegible]

NOAA AIRCRAFT OPERATIONS CENTER

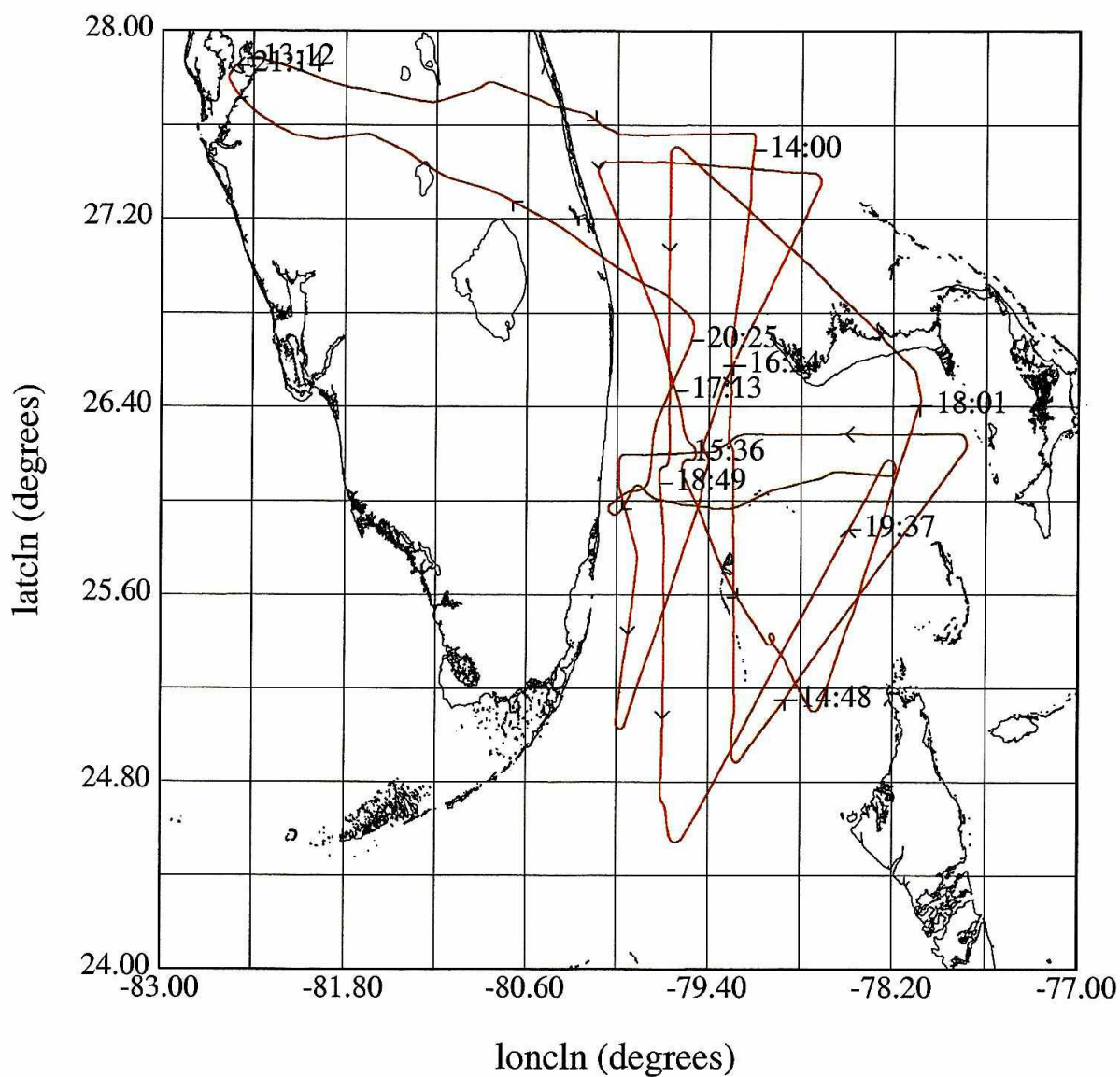
Flight ID 10508245



1. SLAH PILOT
2. STRONG COPILOT
3. BAST FLIGHT ENGINEER
4. ROGERS STATION 1
5. DAMIANO FLIGHT DIRECTOR
6. STEEL NAVIGATOR
7. MAYEAUX STATION C3X
8. FLORID STATION C3X
9. SMULL STATION 2
10. GAMACHE STATION 3
11. LYNCH STATION 4
12. OLNEY STATION 5
13. NELSON STATION 7
14. STANS STATION 8
15. STEEL STATION 3
16. MAYEAUX STATION 4
17. NELSON STATION 7
18. STANS STATION 8
19. STEEL STATION 3
20. MAYEAUX STATION 4
21. NELSON STATION 7

NOAA P3 Mission Into TS Katrina

08/25/2005 UTC, 13:12:00-21:14:00



	mean	sigma	min	max
latcln (degrees), 1 s/sec	26.40	0.87	24.54	27.89
loncln (degrees), 1 s/sec	-79.56	1.00	-82.56	-77.73