



NOAA P-3 N43RF

Katrina Damage Assessment



Flight ID: 050831I

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 no time data/gaps during this flight.

Data from radar altimeter 232 was substituted in place of radar altimeter 159 from 144421Z-144815Z and 202340Z-202600Z.

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.

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	1013.2 mb	1009.1 mb
Corrected Tower Pressure	1013.9 mb	1012.9 mb

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

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

Flt ID: 0508317	From: Kmcf	To: Kmcf
Flt. No: 05-049	Blk In: 2031 z	Time On: 2023 z 23 13
ETD: 1430 z	Blk Out: 1435 z	Time Off: 1447 z
ETE: 4+30	Blk Time: 5+56 (5.9) Hrs	Flt Time: 5+36 (5.6) Hrs
Sponsoring Org: NHC	Program: Damage Assessment	Purpose: Katrina

AOC Flight Crew

Aircraft Commander: Silak Choy	Data System: Lynch
Co-Pilot: Choy, Silak	AVAPS: Olney
Navigator: Siegel	System Eng:
Flight Eng: Floyd, Grey Bast	A A:
Flight Director: Maycaux, Damiano/Faherty	A A:
Avionics:	Crew Chief: Mitchell

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Mayfield, Max	obs	NHC
Debow, S	obs	NMAO
Kiaby, Rick	obs	NHC
Baig, Steve	obs	NHC
Gwynne, John	obs	Eastern Region Director
Stewart, Stacey	obs	NHC
Rappaport, Ed	obs	NHC
Bolinski, Brandon	obs	Fema

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

Recco Times

Fix # Fix Time

Storm Name:

1000 ft.-50 ft. watch Birds & Helicopters

Mission ID:

Penetration number and time

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

Flight ID: 050831I	Time Off: 1447 Z	Time On: 2023 Z
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	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1013.2 mb	2994 mb	1009.1 mb	2991 mb

ATIS	Time	Observation
Takeoff	1355 Z	24005KT 75m SCT010 BKN250 29/26 A2994
Land	1855 Z	23012KT P6sm 3/26 A2991

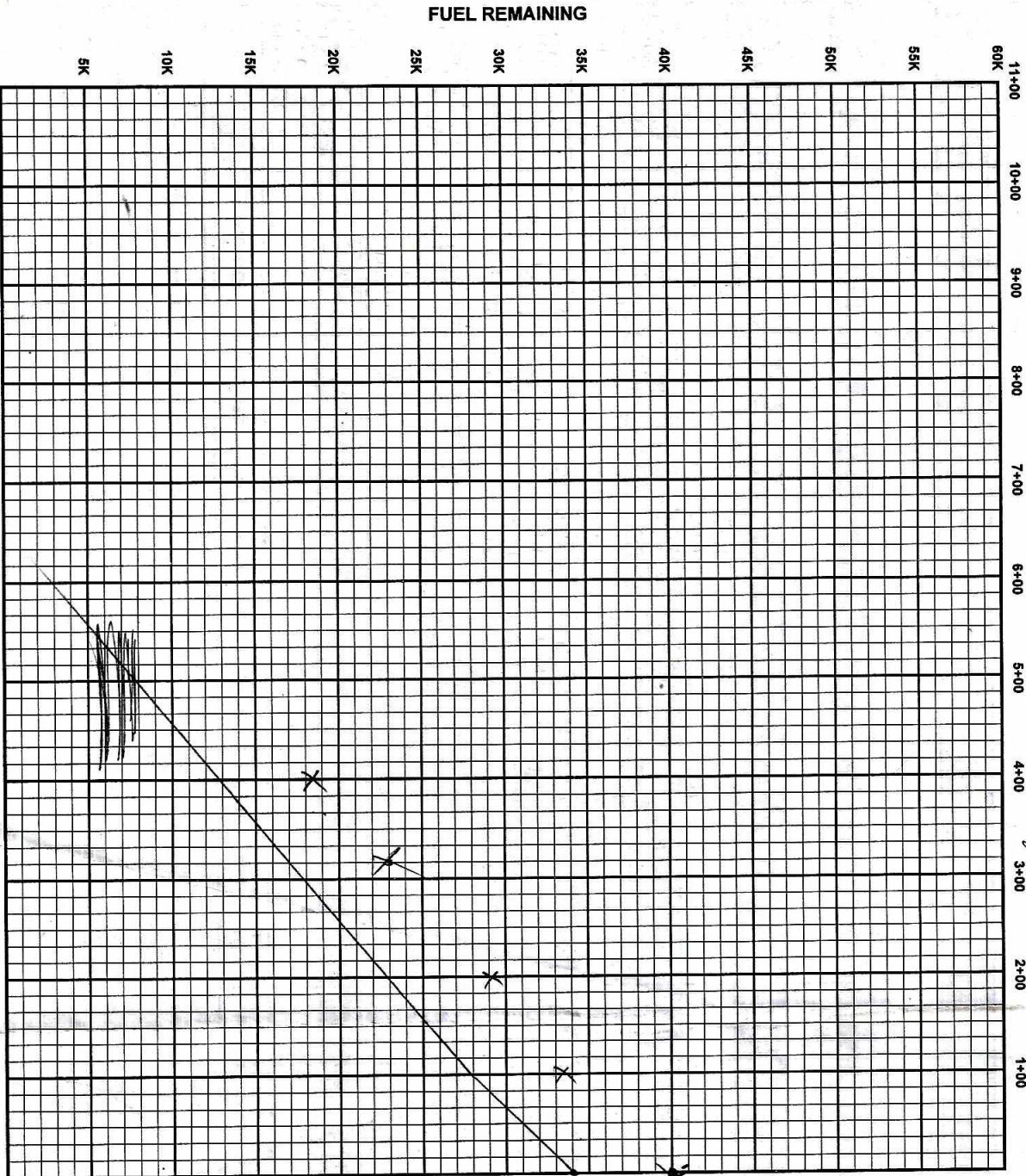
	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good: Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

RANGE CONTROL GRAPH

TIME REMAINING

16.5 23.0 24.2 33.5 40.0



DISTANCE REMAINING

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

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	5+00
ENROUTE FUEL (6K SK45K RULE)	24.0
RESERVE AT DESTINATION	8.0
REQUIRED RAMP	34.0
ACTUAL RAMP FUEL	40.0

TACTICAL (OFFSTA TO DESTINATION)

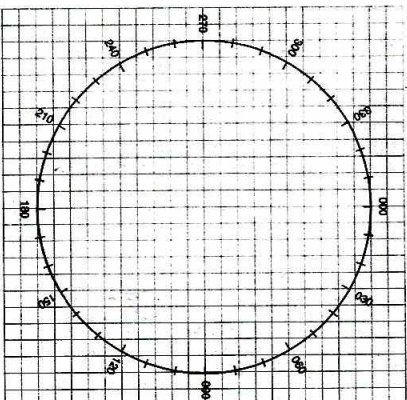
DISTANCE (OFFSTA TO DEST)	4 ENG	3 ENG
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	4 ENG 3 ENG
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 - ERB METHOD			
COMPASS TYPE	INS1	INS2	WET
MERB (DIAL 000)			
+ ZN			
= MTH			
MCH (READING)			
CE			
- VAR			
= DEV			

CEX SIGHT			
GMT			
GHA			
CORR			
GHA			
LONG +W			
EXACTURE			
LAT			
BODY			
DEC			
HC/D			
CORR			
HC			
Z			
ZN			



TRUE AIRSPEED CROSS-CHECK

TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS
1520	210	200			44	294	280

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