



NOAA P-3 N43RF

Post-Katrina Warm Eddy Study



Flight ID: 050915I

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

1

1

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 185051Z-185110Z.

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 140501Z-141400Z and from 210001Z-210400Z.

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 192755Z-192821Z 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	1017.2 mb	1014.4 mb
Corrected Tower Pressure	1017.9 mb	1015.9 mb

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

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

FLT ID: 050915E	From: kmcf	To: kmcf
Flt No: 05-058	In: 2011Z	On: 2101 Z
ETD: 1400 Z	Out: 1357	Off: 1408
ETE: 7 + 00	Blk Time: 7 + 14 (7.2) Hrs	Flt Time: 6 + 53 (6.9) Hrs
Sponsoring Org: HRO	Program: Post Katrina Survey	Purpose: BT Diop foredocks

AOC Flight Crew

Aircraft Commander: Tebeest	Data System: Lynch
Co-Pilot: Nelson	AVAPS: Long
Navigator: Siegel	System Engineer: Sans Souci
Flight Eng: Klippel / Floyd	AA:
Flight Director: Mayeaux	AA:
Avionics:	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Uhlhorn, E	Sci	HRO
Shay, Nick	Sci	UM
Brewster, J	Sci	UM

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

Storm Name: wxwxA Train

Print out Sounding for TOZ Comparison
757P155000

Mission ID: wxwxA Train

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

FLT ID: 050915I TIME OFF: 1408 Z TIME ON: 2101 Z

	A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure	1017.2	3006	1014.4	3000

ATIS - Takeoff 1255Z 32005KT P6SM 27/23 A3006

ATIS - Land 1955Z 26004K 4SM HZ SCT 27/21 A3000

Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / Cds		
Video Tapes		
Dropsondes	0	Good: Bad: Total:
AXBT	20	2 bad
AXCP	2	
AXCTD	30 30	2 bad
SONOBUOY		

REMARKS:

5000ft - 190kt
10000ft - To way point 3
5000ft - Beyond that

[illegible]

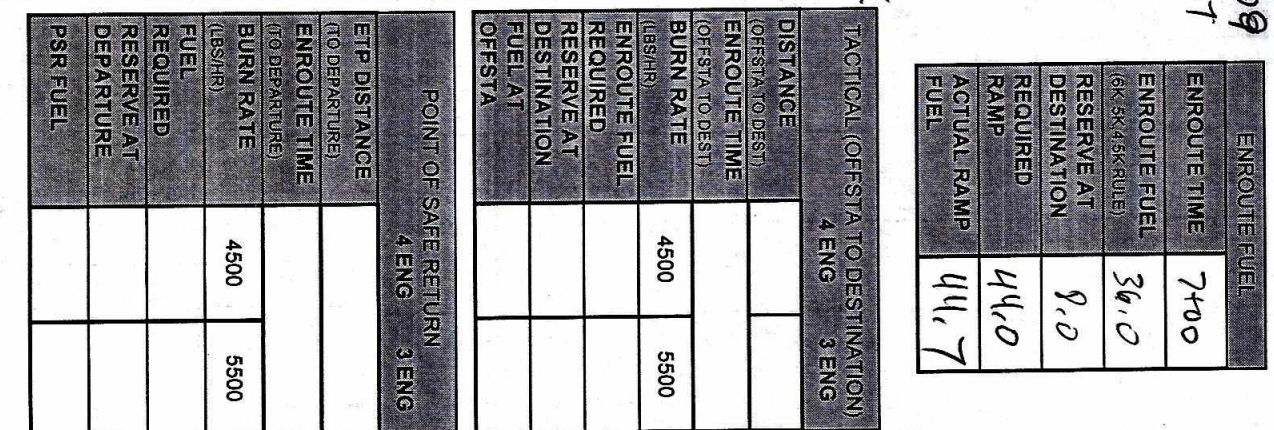
INS PERFORMANCE			
		INS 1	INS 2
BEGIN ALIGN TIME		1210	1210
ALIGN STATUS (0-5)		0	0
END NAV TIME		2102	2102
START NAV TIME		1346	1346
DELTA T		7416	7416

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+1.6	+1.8
DELTA LONG	+1.5	-1.7
RGS	0	2
RADIAL ERROR	1	2

[illegible]

APR 1809 1709 1609 1507 1409

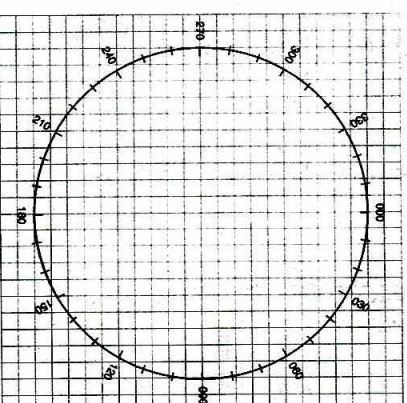
4+00	3+00	2+00	1+00	
23.7	28.5	33.2	38.4	44.7



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

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

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	



PRESS		F FACTOR			
ALT	200	250	300	350	
10,000	1.0	1.0	.99	.89	
20,000	.99	.98	.97	.97	
30,000	.97	.96	.95	.94	
40,000	.96	.94	.92	.90	

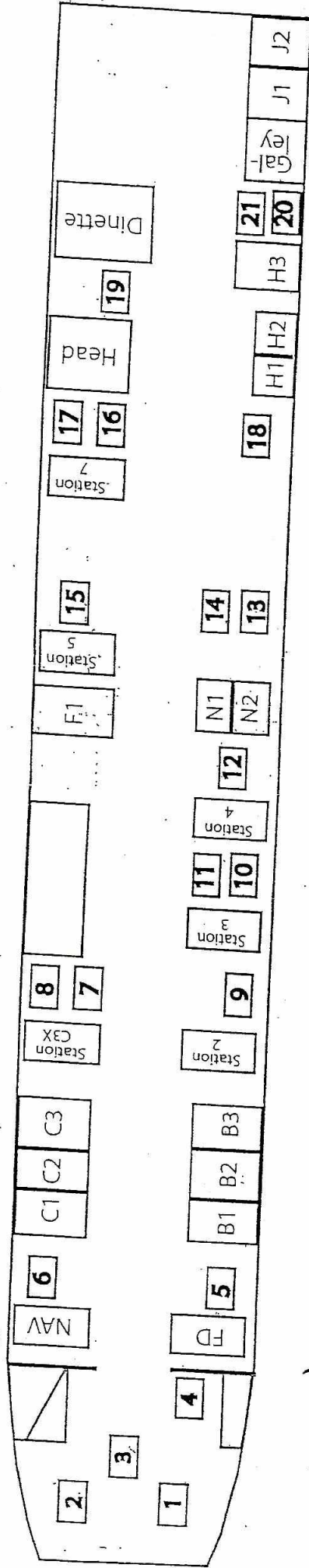
TRUE AIRSPEED CROSS CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS

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

DISTANCE REMAINING

NOAA AIRCRAFT OPERATIONS CENTER

Flight ID OS09151



1. Tobrest

PILOT

2. Nelson

COPILLOT

3. Floyd

FLIGHT ENGINEER

4.

STATION 1

5. Mayeaux

FLIGHT DIRECTOR

6. Siegel

NAVIGATOR

7. Klippel

STATION C3X

8.

STATION C3X

9. Walhorn

STATION 2

10.

STATION 3

11.

STATION 3

12. Lynch

STATION 4

13. Browster, Jody

PROJECT SEAT

14. Skay

PROJECT SEAT

15. Tong

STATION 5

16.

STATION 7

17.

STATION 7

18. Sans Souci

STATION 8

19.

DINETTE

20.

GALLEY

21.

GALLEY

59

