



NOAA P-3 N42RF
Ocean Winds 2004 Hurricane Jeanne #1
KMCF - KMCF



Flight ID: H040922

Sensor or system

Inertial + Accelerometer Data

Temperature Probe

Dew Point Probe

Altitude (for vertical wind)

Radar Altitude

Static and Dynamic Pressure

Time Source

Constants File

Number or Name

2

1

1

Radar Altitude

RA-159

Rosemount Fuselage

Micro 99

CO2042.CON

Notes:

There were SIX Hurricane penetrations on this flight.

Possible data gaps from 153400-153416Z, 015740-015748Z.

RA-232 was substituted for RA-159 during the following times: 154201-154703Z (take off), 180204-180827Z and 014059-015000Z (landing) due to spiking.

The J/W liquid water data appears to be inconsistent until after 1747Z.

There were numerous instances when the dew point temperature exceeded the ambient temperature resulting in a RH% above 100%. These times were during heavy precipitation events and were likely due to a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dew point sensor as it tried to burn off excess moisture. These periods are typically reflected in the J/W liquid water data. No corrections were made during these events unless noted above.

All other instruments worked optimally during the flight.

The aircraft INE positions were renavigated with respect to GPS.

Due to AOC equipment/printer failure, the last step of our Quality Control process (visual QC) was not able to be performed. While other measures were taken to ensure there were no problems with the data, questions concerning questionable data should be brought to the attention of the Flight Director ASAP.

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.

Flight Director:
Phone #:

Contact Paul Flaherty
(813) 828-3310 ext. 3094

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

AOCWF1

Flt ID: 04092214	From: KMCF	To: KMCF
Flt No: 04-047	Blk In: 0158Z	ATA: 0148Z
ETD: 15Z	Blk Out: 1532Z	ATD: 1544Z
ETE: 9+00	Blk Time: 10+26 (10.4)	Flt Time: 10+04 = (10.1)
Sponsor Org: NESDIS / HRD	Program: OCEAN WINDS	Purpose: HURRICANE JEANNE

AOC Personnel

AC: KENNY, P	Sys Eng: McMINN, S
CP: NELSON, M	Data Sys: PEAK, B
Nav: BRAKOB, D / SIGAL, P	Radar:
FE: WASS, S	GPS/BT:
FD: PARRISH, J / FLAHERTY, P	Cld Phys:
Avionics: RODGERS, M	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P	OCEANWINDS PI	NESDIS
BUCK, M	CBLAST PI	HRD
KERR, B	IWRAP	UMASS
ZIMMERMAN, S	OBS	NRL
(14 SOBS)		
(6 PENETRATIONS)		

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

HURRICANE JEANNE

T/O DELAYED DUE TO PROBLEMS
w/43

FP 26-18 20.40

26.08 090 35

26-6 68.6 092 80KTS

26.3 68.5 152 85KTS

E 26.08 68.44 170Z -

25.49 69.0 224Z -

PENET 5

1835Z 965

1956Z 984

2115Z

2140Z 965

2211Z 965

2241 966

DUPRT 1 LOW OP
RETAIN LEG 2.2

(DUPRT 2 Running Low)

BRANCH 1654Z

OUT

BACK UP
APPROX
DESCENTOUT AGAIN
AFTER CLIMB

CHECK JW!!

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AOCWF2

Flt ID: 040922Z Time Off: 1544Z Time On: 0148Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1017.6	1017.5	1017.4	1017.4

	Number	Data Disposition / Date / Quality	
Flt Lvl Tapes			
Radar Tapes			
Cloud Physics Tapes			
Video Tapes			
Sensor-1	3	(HRD)	
AXBT	16	(2 BAD) (HRD)	
AXCP			
AXCTD			
Dropsondes	29	(5 BAD) 18 HRD / 11 MISSING	

Video

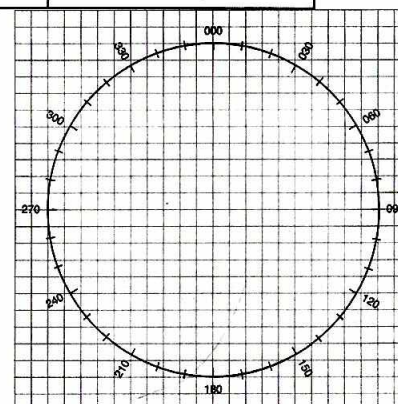
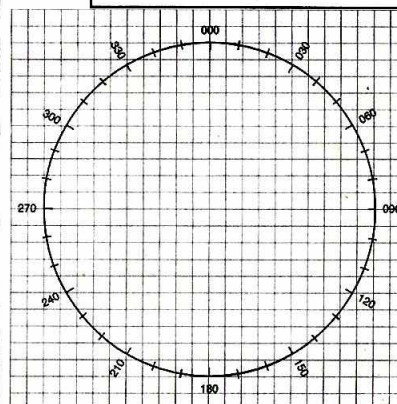
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

0055 0600913 7sm 26/ A3004

14503

MISSION LOG	PAGE <u>1</u> OF <u>2</u>
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EMERGENCY MESSAGE

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA _____, NOAA _____, NOAA 42

- POSITION _____ N / S
E / W AT _____ Z

- HEADING _____ TRUE/MAG
- AT _____ KTS TRUE/INDICATED

- WE ARE A P-3 AIRCRAFT WITH 14 SOULS ON BOARD

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

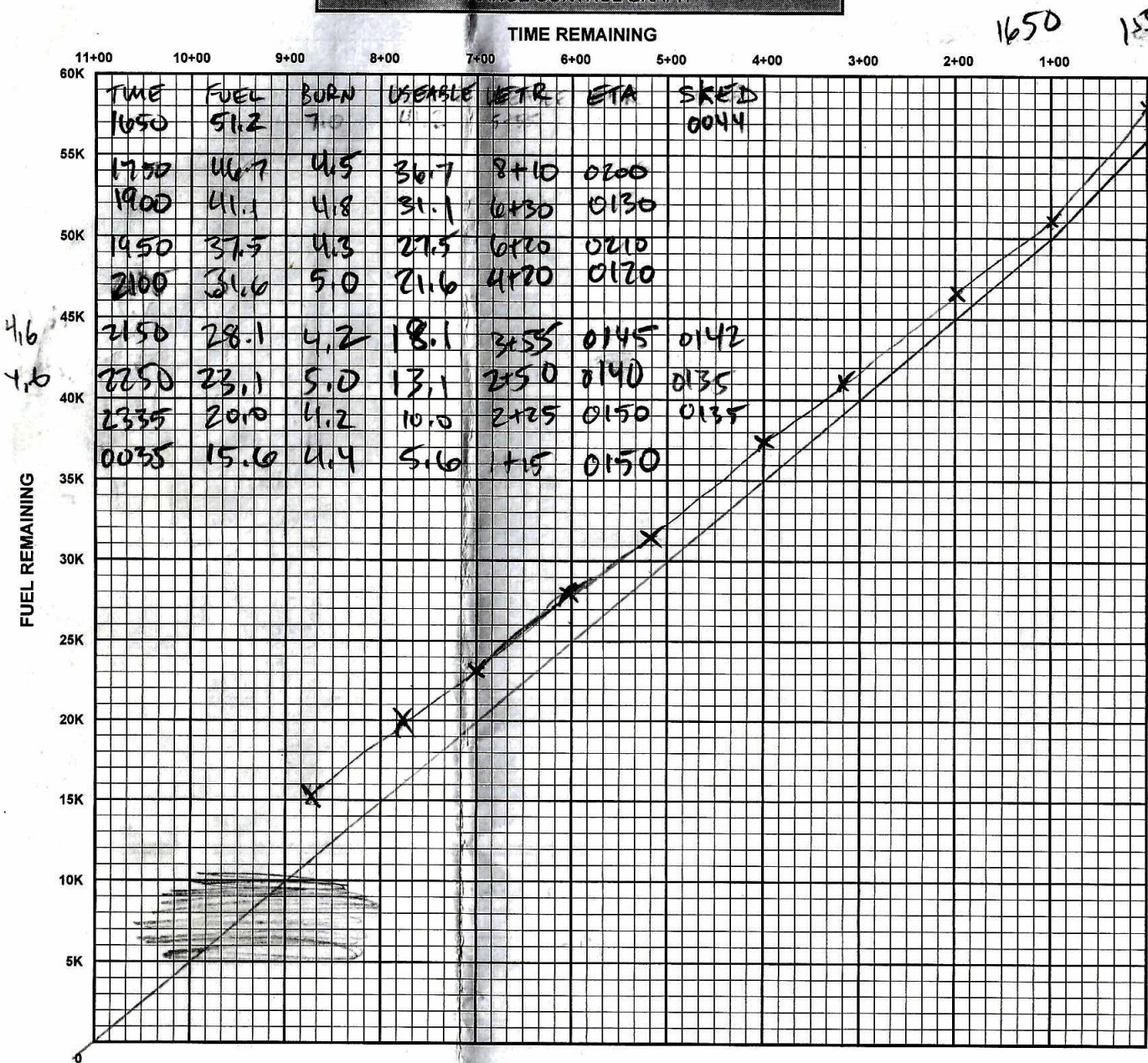
- PILOT INTENTIONS
- WE HAVE ENDURANCE REMAINING

- | FIRST INTENTIONS | | ENDURANCE REMAINING | |
|------------------|--|---------------------|--|
| - WE HAVE | | | |

[illegible]

[illegible]

RANGE CONTROL GRAPH



DISTANCE REMAINING

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

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	9+00
ENROUTE FUEL (6K 5K 4.5K RULE)	46.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	56.0
ACTUAL RAMP FUEL	58.2

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

PRESS 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
1608	216	150	X	X	9	216	239

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 -E	
EXACT LHA	
LAT	
BODY	
DEC	
HC / D	
CORR	
HC	
Z	
ZN	

