

## NOAA P-3 N42RF Ocean Winds 2004 Hurricane Jeanne #2 KMCF - KMCF



## Flight ID: H040924

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

1

1

1

Radar Altitude

RA-159

Rosemount Fuselage

Micro 99 CO2042.CON

## Notes:

There were TEN Hurricane penetrations on this flight.

RA-232 was substituted for RA-159 during the following times: 152101-152629Z (take off) and 004818-005900 (landing) due to spiking in RA-159.

TDM2 was substituted for TDM1 from 200638-204235Z, and TDM3 was substituted for TDM1 (with a - 2.5 offset) from 202945-203157Z due to spiking in TDM1.

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!!!

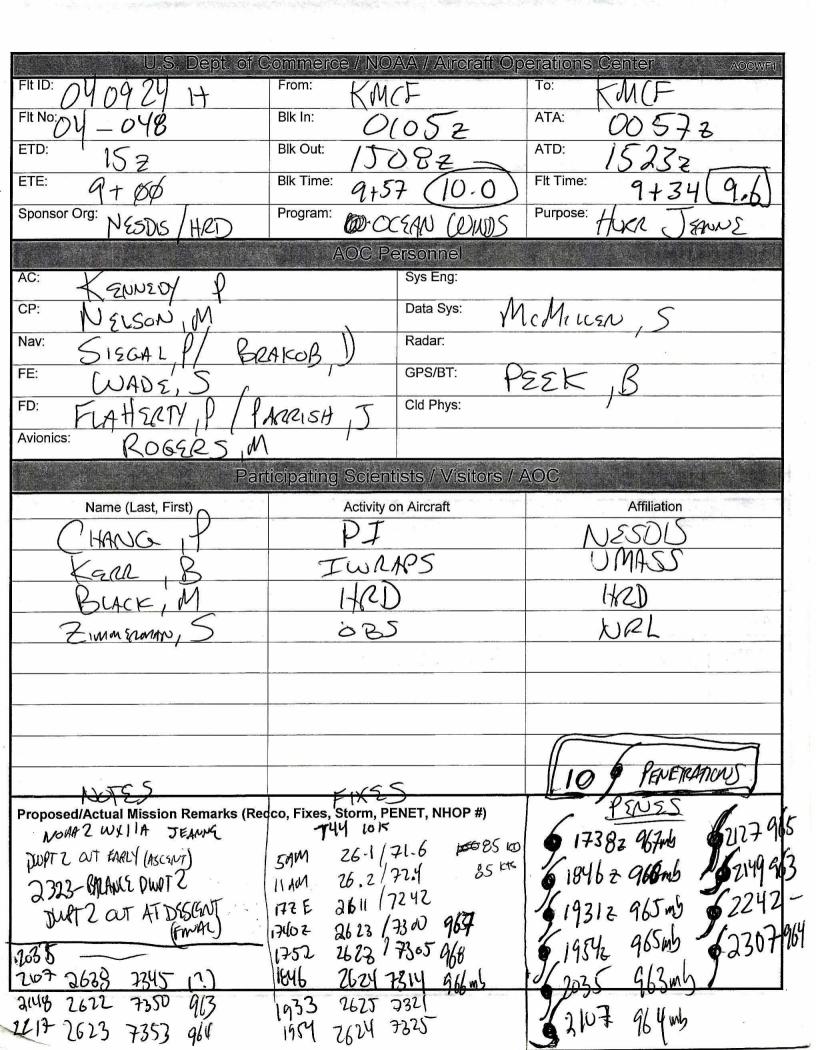
Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

It is recommended that these values be used for vertical wind analysis.

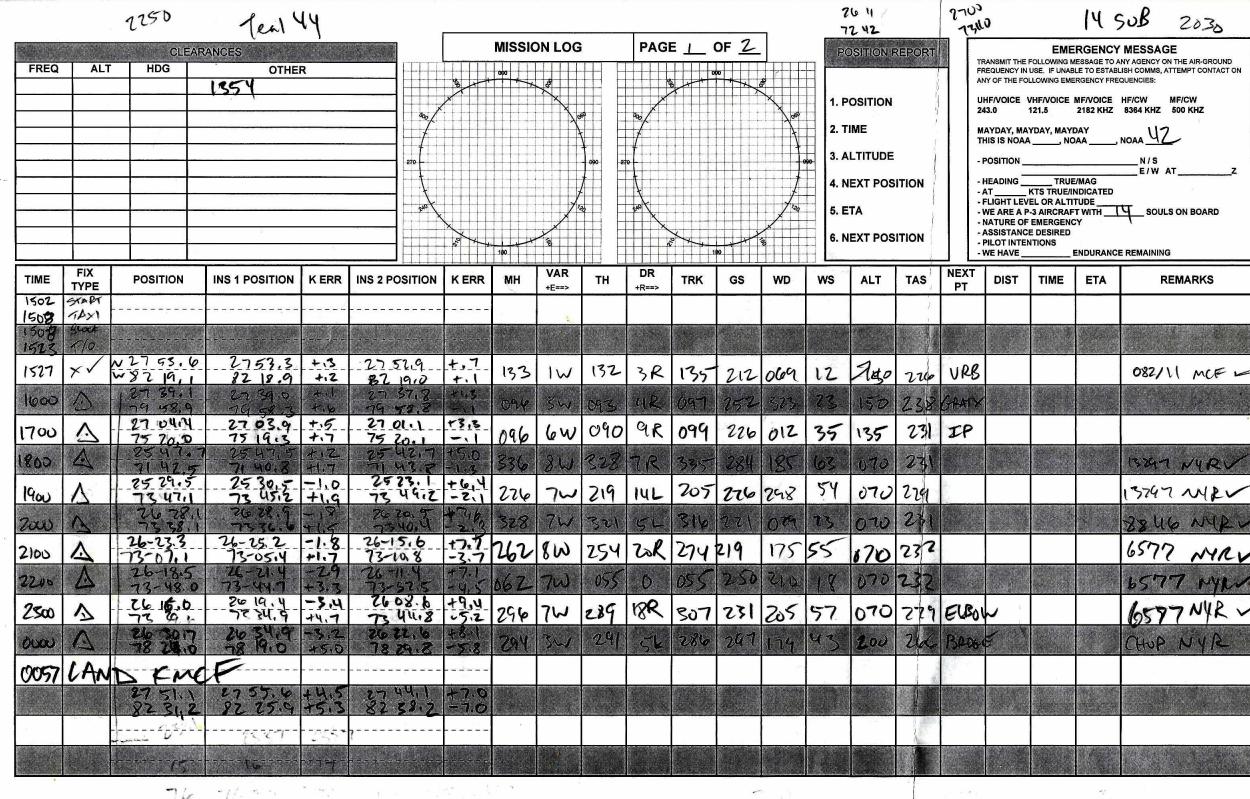
Flight Director:

Phone #:

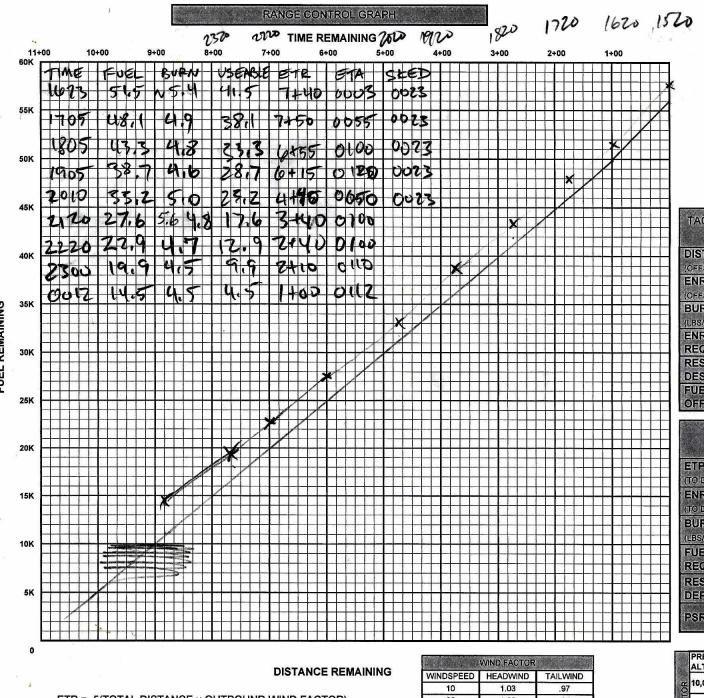
Contact Paul Flaherty (813) 828-3310 ext. 3094



	17.1			/ NOAA / Air	craft Operations	Center AOCWF2
Fit ID:	4092	Y H	Time Off:	15232	Time On:	
		A/C (Take	A STATE OF THE STA	tion (Take Off)	A/C (Land)	Wx Station (Land)
Pre	essure	1015	$\cdot 2 \mid 10$	15.3		1012,4
		Number		Data Dispos	sition / Date / Quality	
Fit Lvi Tap						
Radar Tap	vsics Tapes		*	P. 1		
Video Tap	- 110		over ional muses care o me		010.10.001	
Video Tap	,,,,					
- V - 712-14-0 E I						
				AND THE RESERVE OF THE PERSON		
AXBT		0 6		. , ,		
AXCP		127				
AXCTD					1 7	
Dropsonde	es		<i>y</i>			
				Video		The second secon
	Forward	Left Side	Right Side	Down	Re	marks
Time On						
Time Off				3	\.	
Rate					· ·	<u> </u>
Remarks	13557	0100915	5 $7$ sm $2$	5/20 2999		
4	Z35J	OLWBET	3 losm 26	(2) 2990		
				•		
	10					
	*					
1 1 1		0 1				
The state of the s						
Total State of the						
Total Control of the						
The state of the s						



NOAA FORM 56-49	MI	SSION F	PREFLIC	SHT LO	G	NAVIGATO	R		AIRCRAFT C	OMMANDER	ı	FLIGHT DIRE	CTOR	sc	HEDULED / A	CTUAL TAK	OFF Z DAT	E OF TAKEOFF	1		
(2-95)	DESTINATION		MISSION JEANA	1843		BRAKO	08/5166	rEL	KEN	INEQ	•	Parrish	/FLAHO	ery	1500	1 152	3	245EPDY			
WP LAT	/ LON	RTE	МН	VAR +E==>	тн	DR +R==>	TRK	GS	WD	ws	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS			
KMEF N 27	51.7 30.8	1/	099	4~	095	•	095		L	V ,								4.a	INS PE	RFORMA	
2.70	40.7 79.4	7 /	102	60	096	0	696	się.		1									BEGIN ALIGN	INS 1	INS 2
	54.7 17.5	13	102	10~	092	Ð	092												TIME	1310	1310
IP1 - 26	54.0 00.0	مر الأمرز	lus	(0 W	135	0	135												ALIGN STATUS (0-5)	0	0
76	06.0	8/8																	END NAV	12057	0057
EFI 25	40	5/5			29.1		14.	_							the second				START NAV		1432
27	31	6/16														ir	To the second		TIME		
92 \$		10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.				- Colored			1.0	14.17	-44-54						1		DELTA T	10+65	10+25
IP3 2	3 15 3 89	7/19					ō.	£	-							# p=			TERMI	NAL ERR	ORS
EP3 2!	0.189	2/12				5									122		11			INS 1	INS 2
				S. C.															DELTA LAT	+4.5	+7.0
7.35						ligi (			200							£				1 07	1 7.6-
				u.			₹"1	3/											DELTA LON	15.3	-7.0
			1000					), ),			A. A. C.			12.515				Region of the second	RGS	)	2/
							,27	22							Lab.					1	
		1				100	617	414	2323	100		12000	FE-12		ing and the second seco			Company Company	RADIAL ERROR	17	10
10 1000		Thy	th?				**									1			REMARKS		
	25.6 43.6	:1	11(*)**			4.7	10000	ar E. vice							1					100	2
	41.5	2	12		` .										1912					Type Care Care Care Care Care Care Care Car	
BROSE 92	27,2 02.1	3	13	ı			1 (1997)				23/4/4/6	1			1 114					32.00	
JSTRM 27	25,4	4	14													CONTRACTOR OF THE PARTY OF THE				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
LIS, DEPARTMENT OF COMMERCE	47 3.8	5	4							14 Mg (14)	i i				11.50						



EMACONE	riuleit.
ENROUTE TIME	9+00
ENROUTE FUEL (6K, 5K, 4.5K RULE)	4610
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	560
ACTUAL RAMP FUEL	57.9

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

		3 EN
ETP DISTANCE		
(TO DEPARTURE)		Œ
ENROUTE TIME		
(TO DEPARTURE)		
BURN RATE	4500	5500
(LBS/HR)	4000	3500
FUEL		-
REQUIRED		
RESERVE AT		
DEPARTURE		l

COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MTH(SEXTANT)			
CE			
-VAR			
DEV			

CEX SIGHT

GHA
LONG +W
-E
EXACT LHA

BODY
DEC
HC/D
CORR

6			
CEX - EF	RB MET	HOD	
COMPASS TYPE	INS1	INS2	WET
MERB (DIAL 000)			
+ ZN			
= MTH		75	
MCH (READING)			
CE			
VAR			
= DEV			

+		$\pm$		1	-		000	ψ.		1	1.					
+	Н	+	86	+	+	F	+	13	H	*	100		-	_	H	+
1		X			1			I	П			X			П	
Q <sub>Q</sub>	6/	^			1			Ė			1		^	1	080	
٠,	[			+	-		-	-		-	-			_	1	+
1	L			1	1			Ţ	1	T	T				1	
0			Н	Ì	L		1			1						090
1		+	Н	+	+		+	+	H	+	+			-	Н	Ŧ
1			П	1	1			Ţ		1					1	
+		+	H	+	+	+	+	+	+	+	+			-	1	+
21		×			-			F	- 1					7	720	
-	+ 1	$\setminus$	+	+	+			+	-	+	+	×				

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

1.04770	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

	PRESS ALT	200	250	300	350
OR	10,000	1.0	1.0	.99	.99
FACT	20,000	.99	.98	.97	.97
ŭ	30,000	.97	.96	.95	.94
	40,000	.96	.94	.92	.90

	1	RUE AI	RSPEED	CROS	S-CHEC	Ж	
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	TAS
613	215	150		X	11	677	243
025	218	200			5	Buz	265