



NOAA P-3 N42RF
IFEX/Hurricane 2005
KMCF - KMCF

Flight ID: H050629

Sensor or system

Number or Name

Inertial + Accelerometer Data

1

Temperature Probe

1

Dew Point Probe

1

Altitude (for vertical wind)

Radar Altitude 159

Static and Dynamic Pressure

Rosemount Fuselage

Time Source

Micro 99

Constants File

CO2054.CON

Notes:

There were no noted time/data gaps for this flight.

Radar Altitudes were put in standby during formation flying. PQM1 was not operational early in the flight. Dewpointer 2 was not installed. TT2 was in and out for most of the flight.

There were no working Liquid Water Sensors for this flight.

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: 050629H	From: KMCF	To: KMCF
Flt No: 05-028	Blk In: 1638Z	ATA: 1630Z
ETD: 13Z	Blk Out: 1301Z	ATD: 1314Z
ETE: 4+00	Blk Time: 3+37 (3.6)	Flt Time: 3+16 (3.3)
Sponsor Org: NOAA/AOC	Program: CALIBRATION	Purpose: TEST FLT

AOC Personnel

AC: KENNEDY, P	Sys Eng:
CP: TEBBET, R	Data Sys: McMUSN, S
Nav: GARAGHER, T	Radar:
FE:	GPS/BT: OLCNEY, B
FD: FAHERN, P	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, MIKE	SCI	HRD
VALDE, KRISTAL	SCI	HRD
TOPPEY, B	GUEST	NOAA - AOC/FS
MARTIN, G	GUEST	MEDWIL/MED/FS

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #) SONDE OFF COAST (PHX)

RADARS - STANDBY DURING FLIGHT (4159)

AXBT'S @ 500' x 100' OVER BUOY (DRESS)

DUPT 2 NOT WORKING - TAXI
CNOT INSTALLED - SM159 ON
131420PQIM INOP
EARLY

LUQ - OUT

KING LW INOP - NO WATER
SENSORS
WORKING

26 00 085 55

20,000' LEG START 135633

TIZ OUT + IN

159 NOT OFF FOR 1ST LEG
BACK ON 153115Z134Z (WY3RF
DROP @ BUOY)

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

AOCWF2

Flt ID: 050629 H Time Off: 1630z Time On: 1314 Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1016.2		1015.8	

	Number	Data Disposition / Date / Quality	
Flt Lvl Tapes			
Radar Tapes			
Cloud Physics Tapes			
Video Tapes			
AXBT	2	(1420)	
AXCP			
AXCTD			
Dropsondes	1	(AOC)	

Video

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

Remarks

KCT

* 3000 T/O

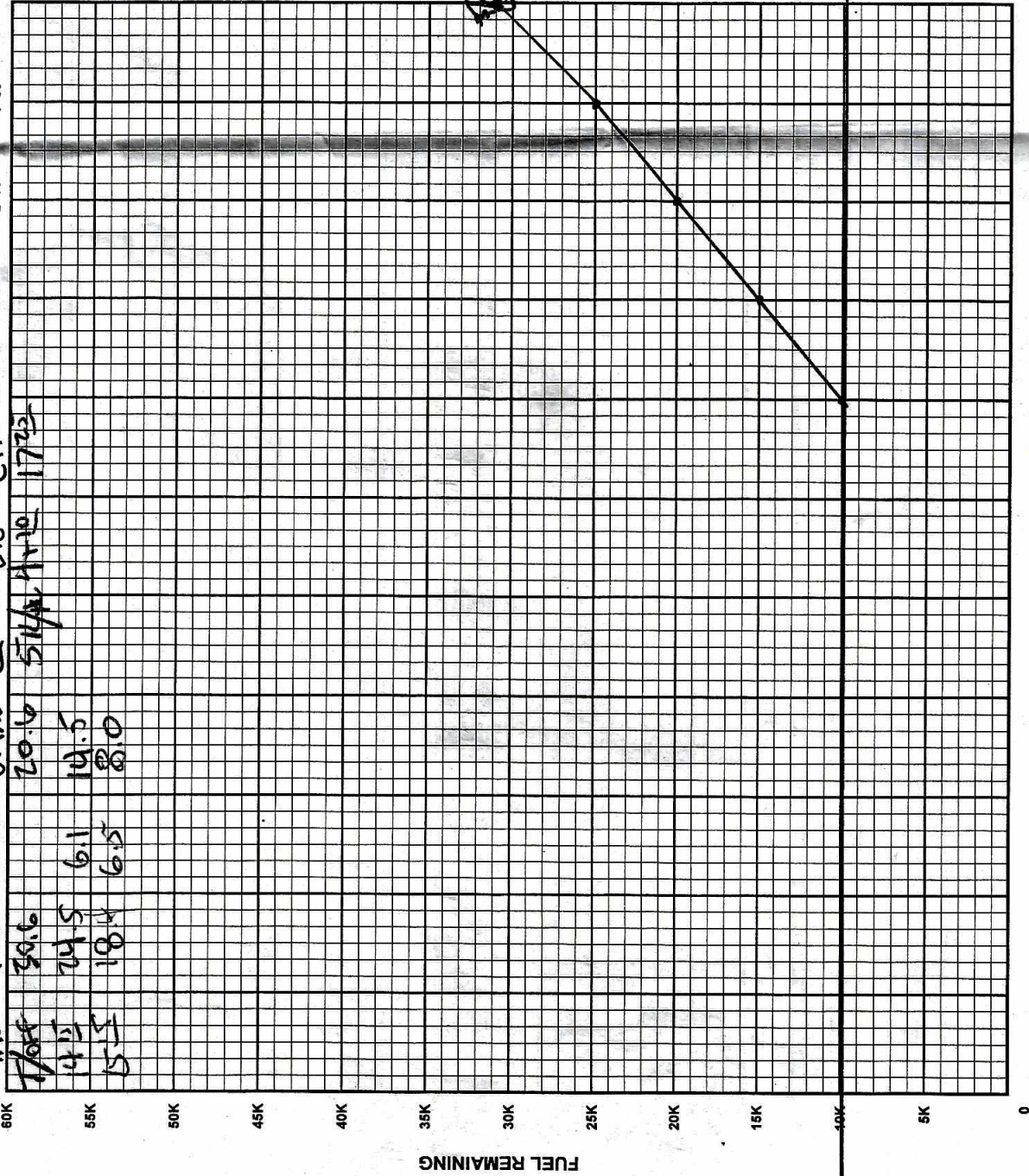
3002 LAND

050629H Time Comments	Lat	Lon	TA	TD	Trk	Hdg	RA	PS	SP	WD	WS	WZ
125830 test	27.50.94	-82.29.58	26.7	24.5	86.3	134.6	9976.0	1016.4	2807.3	103.4	4.3	-3
130214 taxi	27.50.82	-82.29.52	27.7	24.5	148.8	153.0	9976.0	1016.3	2798.7	326.6	3.3	-0
131345 t/o	27.50.64	-82.31.56	26.5	24.9	40.3	41.3	-4.0	1016.9	1016.4	123.1	3.5	-2.7
132317 12000'	27.29.46	-82.18.78	5.1	4.2	176.2	177.7	3873.0	645.5	1014.8	201.2	3.2	.2
133715 ob	27. 0.60	-83.13.08	-4.8	-6.9	248.7	247.6	5884.0	504.7	1013.6	201.2	4.5	-2
134331 Sonde Launch, Drop 1	26.49.50	-83.45.00	-7.2	-10.8	247.4	246.0	6358.0	475.0	1011.9	213.6	5.9	.1
135017 ob	26.37.32	-84.22.26	-6.8	-12.4	257.7	255.8	6374.0	473.8	1010.4	192.2	6.2	-1
135633 start 1st leg	26.25.86	-84.54.96	-7.8	-14.6	247.6	246.1	6545.0	464.6	1012.3	196.4	5.7	.2
140203 end leg	26.15.66	-85.21.84	-7.6	-13.7	244.0	242.4	6547.0	464.8	1012.4	217.7	7.0	.3
140756 start 15000' leg	26. 3.84	-85.48.24	-.1	-.6	242.5	242.1	5734.0	570.6	1113.8	196.8	4.1	.1
141307 end leg	25.53.28	-86.10.98	1.0	-4.1	244.5	243.3	5734.0	572.1	1114.7	194.0	4.7	-2
143305 recco test message sent	25.58.68	-85.58.08	.3	-1.4	57.9	58.7	4856.0	571.0	1011.0	221.9	4.8	.2
143510 descending to 5000'	26. 3.78	-85.48.96	.2	-1.0	58.5	58.9	4793.0	571.4	1004.5	233.9	5.3	.4
144446 5000'	26.19.14	-85.29.52	18.1	15.1	228.9	227.0	1648.0	841.8	1016.1	111.4	3.1	-6
144600 start 5000' leg	26.15.96	-85.33.72	18.2	13.7	231.4	230.0	1639.0	842.7	1016.2	117.0	3.5	-0
145604 end	25.50.94	-86. 8.46	18.5	14.2	231.4	230.8	1652.0	841.5	1016.0	76.5	2.8	.1
150354 start 1000' leg	25.50.76	-86.13.38	25.3	24.1	60.5	62.4	319.0	980.8	1016.7	118.8	4.3	-3
150906 axbt ch 14	26. 0.42	-85.55.56	25.5	24.3	55.7	57.9	308.0	982.0	1016.6	127.5	4.5	-3

[illegible]

RANGE CONTROL GRAPH

TIME REMAINING	
11:00	Time 10:00 F-vel 9:00 Box 12+01 Ys 1267+00 @ 6:00 ETE 5:00 ETA



ENROUTE FUEL	
ENROUTE TIME	4:00
ENROUTE FUEL (6K15K45K RULE)	21
RESERVE AT DESTINATION	10
REQUIRED RAMP	51
ACTUAL RAMP FUEL	30.6

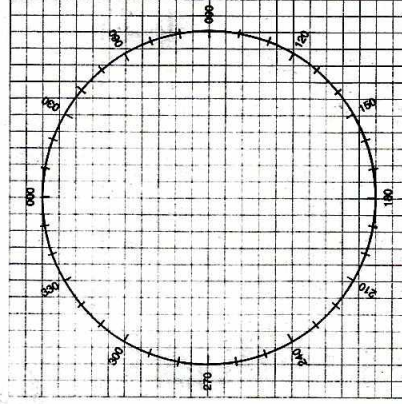
TACTICAL (OFFSETA TO DESTINATION)		
	4 ENG	3 ENG
DISTANCE (OFFSETA TO DEST)		
ENROUTE TIME (OFFSETA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSETA		

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		

CEX - TRUE BEARING METHOD				CEX SIGHT	
COMPASS TYPE	INS1	INS2	WET	GMT	
MCH (READING)				GHA	
- MTH (SEXTANT)				CORR	
CE				GHA	
- VAR				LONG + W E	
DEV				EXACT LHA	
				LAT	
				BODY	
				DEC	
				HC/D	
				CORR	
				HC	
				Z	
				ZN	

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

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



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

DISTANCE REMAINING

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

PRESS ALT	F-FACTOR				
	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
1339	221	F180			+09	306	237/

N42RF AVAPS DROP LOG

Mission : CAL FLIGHT

Flight ID: 050629H

Landing :

[illegible]