



NOAA P-3 N43RF
T.D. 10
9/21/2007



Flight ID: 070921I

Sensor or system

INE

Accelerometer

Temperature Probe

Dew Point Probe

Altitude (for vertical wind)

Static Pressure

Dynamic Pressure

Time Source

Number or Name

1

N/A

1

2 (Edgetech)

RA159(INE1 blended GPS)

Rosemount Fuselage psf

Rosemount Fuselage pqf1

Micro 99

Local Met Data:

Takeoff (2159Z)

Landing (0237Z)

Aircraft Static Pressure

1011.6 mb

1013.4 mb

Tower Pressure

1011.9 mb

1014.9 mb

Notes:

There were no errors noted in the selected sensors. The flight was shortened when the NHC required no further storm positions and data.

There were data gaps noted: 220041-220051, 222421-222440, 224747-224755, 021711-021730.

There were times during heavy precipitation events (e.g. eye wall penetrations) when the dew point exceeded ambient temperature³ yielding a RH greater than 100%. This is probably due to a wet bulb effect on the total temperature probe and/or the dew pointer over heating while trying to remove excess moisture. In these instances, no corrections were attempted.

SPECIAL NOTE: In the netCDF file, 070921I_RC.nc, vertical ground speed (dpj_wgs), vertical air speed (dpj_was), and vertical wind speed (dpj_wz) were computed using Dr. Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Flight Director:

Tom Shepherd

Phone #:

(813) 828-3310 ext. 3053

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

FLT ID: 070921I	From: KMCF	To:
Flt No: 07-035	In: 0248Z	On: 0237 Z
ETD: 2200Z	Out: 2151 Z	Off: 2159 Z
ETE: 8+00	Blk Time: 4+57 4.9 Hrs	Flt Time: 4+38 4.6 Hrs
Sponsoring Org: NOAA/HRD	Program: AEROSONDE	Purpose: T.D. 10

AOC Flight Crew

Aircraft Commander: NELSON, M	Data System: LUNCH, T
Co-Pilot: GIRIMONTE, A	AVAPS:
Navigator: BISHOP, J	System Engineer: SMITH, J
Flight Eng: FLOYD, D	AA:
Flight Director: SHEPHERD, T	AA:
Avionics: SANS SOUCCI, D	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, M	PI	HRD
LEIGHTON, P	CO PI	
X CASCELLA, Guy	OBS	1
X HOLMAN, BRENT	MEDIA	Pro Pilot + MAG

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times	Fix #	Fix Time
Storm Name: TD 10	2208		
	2230		
Mission ID: NOAA3 0610A CYCLONE	2342		
2031 IP	0027		
2957 2842	0112		
8618 8453			2326

(See reverse for additional remarks)

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

FLT ID: 070921 I	TIME OFF: 2159 Z	TIME ON: 0237 Z
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	A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure	1011.6	29.88	1013.4	29.97

ATIS - Takeoff	
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ATIS - Land	
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Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / Cds		
Video Tapes/DVDs		
Dropsondes	10	Good: 10 Bad: 9 HRD 1 NHC
AXBT		
AXCP		
AXCTD		
SONOBUOY		

REMARKS:

300

0

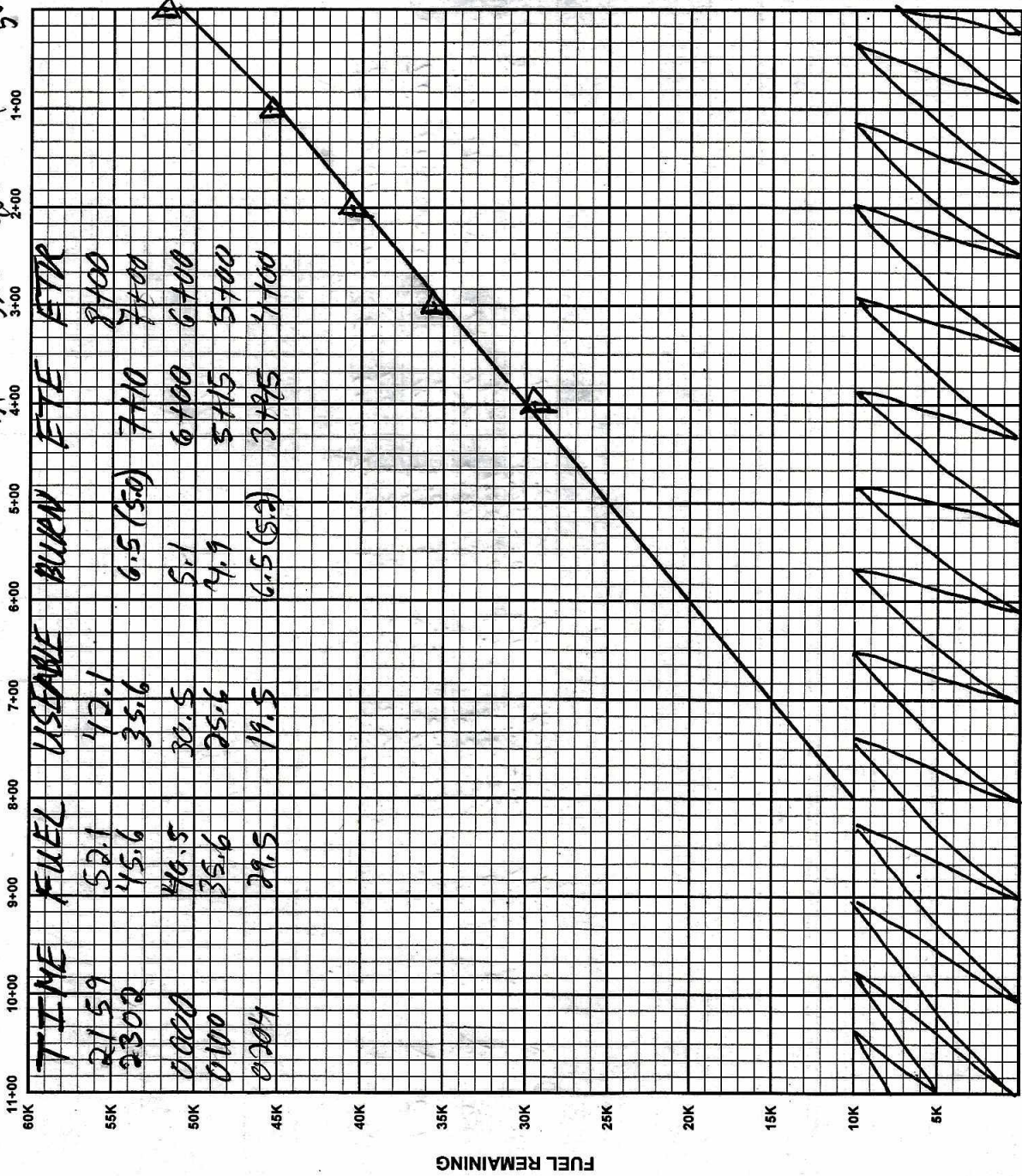
2597
2159

438

RANGE CONTROL GRAPH

1.33
45.6
40.5
35.6
24.0
14.00

TIME REMAINING



TIME	FUEL	USEABLE	BURN	ETE	ETP
2159	52.1	42.1			
2302	45.6	35.6	6.5 (5.0)	7:10	8:40
0000	40.5	30.5	5.1	6:40	7:40
0100	35.6	25.6	4.9	5:45	6:40
0204	28.5	19.5	6.5 (5.3)	3:45	5:40
					4:40
					3:40
					2:40
					1:40

ENROUTE FUEL	
ENROUTE TIME	8 + 00
ENROUTE FUEL (6K SK 4.5K RULE)	41.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	51.0
ACTUAL RAMP FUEL	52.1

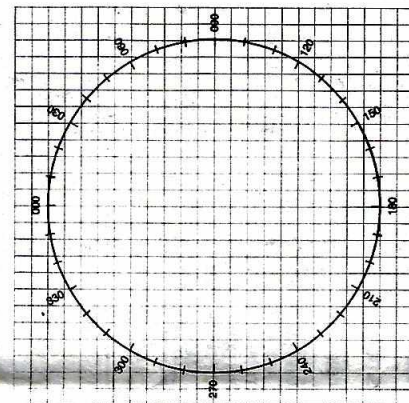
TACTICAL (OFFSTA TO DESTINATION)	
DISTANCE (OFFSTA TO DEST)	
ENROUTE TIME (OFFSTA TO DEST)	
BURN RATE (LBS/HR)	4500
ENROUTE FUEL REQUIRED	5500
RESERVE AT DESTINATION	
FUEL AT OFFSTA	

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	4500
FUEL REQUIRED	5500
RESERVE AT DEPARTURE	
PSR FUEL	

CEX - TRUE BEARING METHOD		
COMPASS TYPE	INS1	WET
MCH (READING)		
- MTH (SEXTANT)		
CE		
- VAR		
DEV		

CEX - TRUE BEARING METHOD		
COMPASS TYPE	INS1	WET
MCH (READING)		
- MTH (SEXTANT)		
CE		
- VAR		
DEV		

CEX SIGHT	
GMT	
GHA	
CORR	
GHA	
LONG W E	
EXACT LHA	
LAT	
BODY	
DEC	
HC/D	
CORR	
HC	
Z	
ZN	



WIND FACTOR	
WINDSPEED	TAILWIND
10	1.03
20	1.06
30	1.10
40	1.14
50	1.18
60	1.22

PRESS ALT	
10,000	1.0
20,000	.99
30,000	.97
40,000	.96

TRUE AIRSPEED CROSS-CHECK				
TIME	IAS	PRESS ALT	"F" FACTOR	ITAS

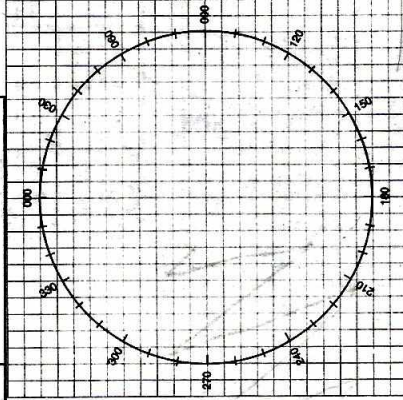
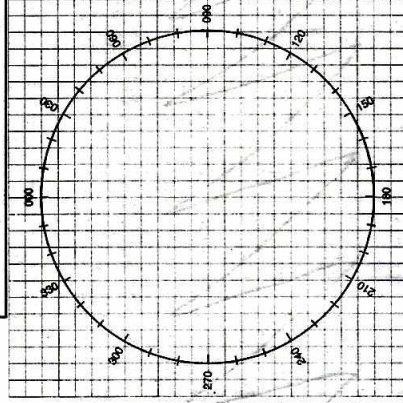
DISTANCE REMAINING

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

[illegible]

[illegible]

PAGE _____ **OF** _____



1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND
FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON
ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

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 _____

- POSITION N/S

- HEADING _____ TRUE/MAG _____

- HEADING _____ KTS TRUE/INDICATED _____
- AT _____

- FLIGHT LEVEL OR ALTITUDE _____ KTS HSE INDB

**- WE ARE A P-3 AIRCRAFT WITH
RIGHT LEVEL ON BRIDGE**

- NATURE OF EMERGENCY

- ASSISTANCE DESIRÉE

- PILOT INTENTIONS

[illegible]

Flight ID : 0709211

Launcher S/N:

[illegible]