



NOAA P-3 N42RF SFMR Calibration Flight



Flight ID: 060525H

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

2
2
1
2 (Edgetech)
Radar Altimeter 159
Rosemount Fuselage
Rosemount Fuselage 1281
Micro 99
CO2062.con

Notes:

There were no time/data gaps during this flight.

Radar Altitude data from the 232 sensor was not available from 135705Z through the end of the flight due to calibration needs for the SFMR instrument.

Radar altitude data from the 232 sensor was substituted into the radar altitude 159 data from 132901Z-135106Z.

There was no altitude data from Inertial 1 and 2 throughout the entire flight.

The King liquid water sensor (KLWC), differential attack pressure from the nose radome (PDAR), differential slip pressure from the nose radome (PDSR), dynamic pressure measured from the center port of the nose radome (PQR), static pressure from the wingtip (PSW), dynamic pressure from the wingtip (PQW), total pressure measured at the nose radome (PTR), total and ambient temperature from sensor 3 (TA3,TT3), and dewpoint sensor 3 (TDM3, TD3), were all inoperative throughout the entire flight.

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	1017.6 mb	1017.0 mb
Corrected Tower Pressure	1016.9 mb	1017.6 mb

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

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Flt ID: 060525 N	From: Kmcf	To: Kmcf
Flt. No: 06-046	Blk In: 1605 z	Time On: 1555 z
ETD: 1300 z	Blk Out: 1246 z	Time Off: 1304 z
ETE: 5.00	Blk Time: 3+19 (3.33) Hrs	Flt Time: 2+51 (2.9) Hrs
Sponsoring Org: AOC	Program: Calibration	Purpose: SfmR

AOC Flight Crew

Aircraft Commander: Strong, T	Data System: Mcmillan, S
Co-Pilot: Nelson, M	AVAPS: Rasco, C
Navigator: Brakob, D / Bishop, J	System Eng:
Flight Eng: Kippel, J	A A:
Flight Director: Mayeaux, R	A A:
Avionics: O'neil, B	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Goldstein, A	PI	AOC
Kenwick, Steve	Visitor	USAC
Talbot, Jon	Visitor	USAC
Popstefanija, I	SfmR Tech	PUSensing
Hansen, Jesper	Obs/equipment tech/satcom	Tanane

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) <u>Storm Name:</u> <u>Mission ID:</u> WXWXA Train <u>Penetration number and time</u>	<u>Recco Times</u> 5 Sondas. Any over Buys are bonuses 2 at 5000 3 at 20000 both over buoy 1 over buoy 2 at endpoints Transmitt once ASDL	<u>Fix #</u> <u>Fix Time</u> Ch 8 Ch 6 Started Taps 124709 z
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Flight ID: 060254 060525H		Time Off: 1304 Z		Time On: 1455 Z	
A/C Takeoff		Wx Station Takeoff		A/C Land	
Pressure 1017.6 mb		3004 mb		1017.0 mb 3006 mb	
ATIS	Time	Observation			
Takeoff	1055 Z	06003KT 75m Sc+100 Bkn 0250 21/20 A3004			
Land	1455 Z	26004KT 75m Sc+100 Skn250 29/21 A3006			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		Good: Bad:			
AXBT					
AXCP					
AXCTD					

Remarks:

INS PERFORMANCE		
INS 1	INS 2	
BEGIN ALIGN TIME	1100	1100
ALIGN STATUS (0-5)	0	0
END NAV TIME	1605	1605
START NAV TIME	1210	1210
DELTA T	4405	4405

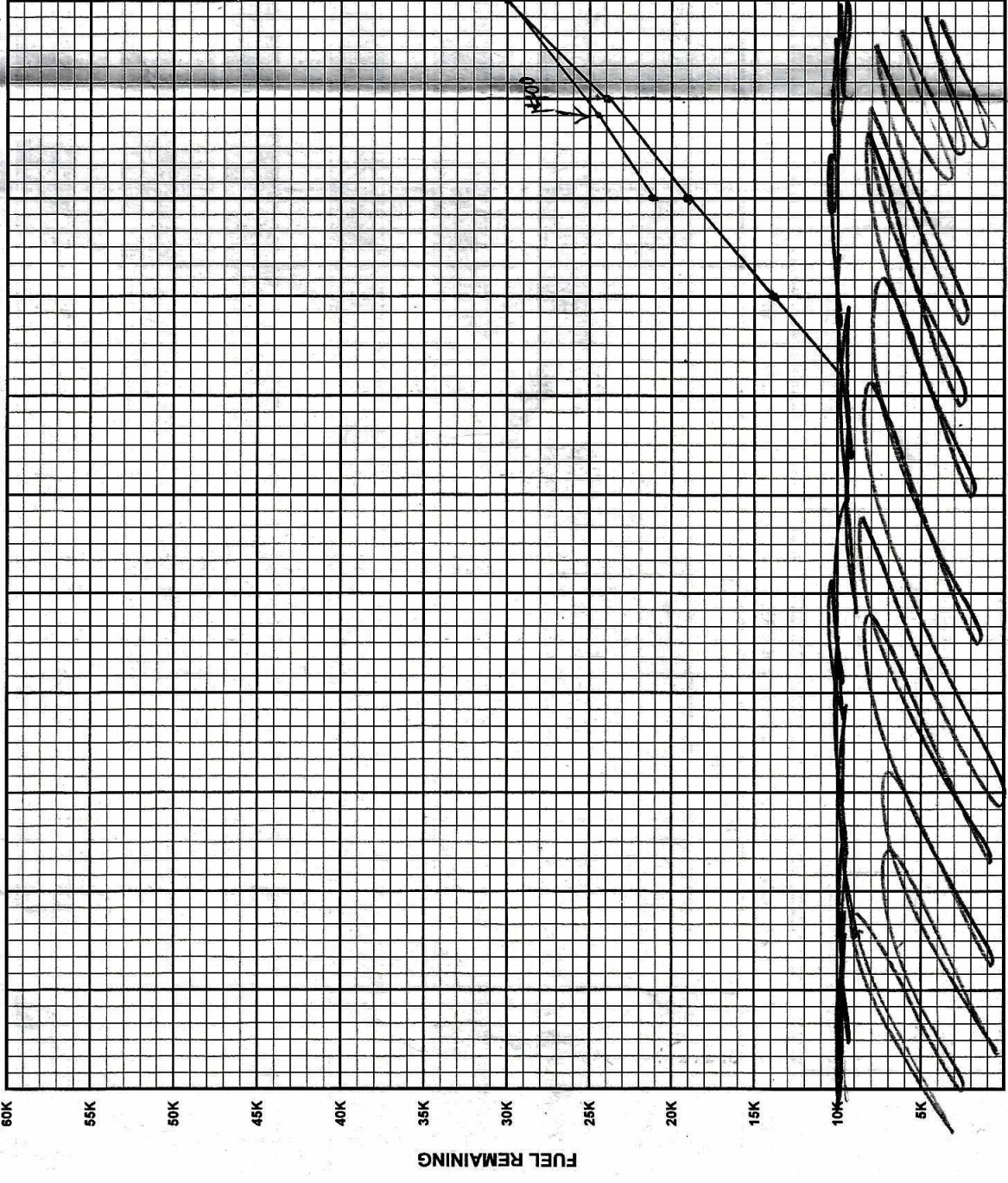
TERMINAL ERRORS		INS 1	INS 2
DELTA LAT	-0.1	+1.0	
DELTA LON	+0.7	-0.4	
RCS	3	3	
RADIAL ERROR	1	1	

[illegible]

3835

RANGE CONTROL GRAPH

TIME REMAINING 1550 1450 1350 1250



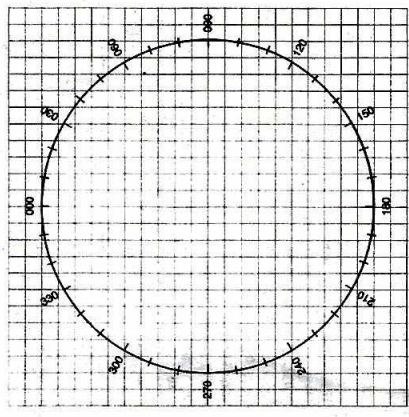
ENROUTE FUEL	
ENROUTE TIME	3400
ENROUTE FUEL (6K 5K 4.5K RULE)	16K
RESERVE AT DESTINATION	10K
REQUIRED RAMP	26K
ACTUAL RAMP FUEL	

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		CEX SIGHT	
COMPASS TYPE	INS1 INS2 WET	GMT	
MCH (READING)		GHA	
MTH (SEXTANT)		CORR	
CE		GHA	
- VAR		LONG W	
DEV		- E	
		EXACTITUDE	
		LAT	
		BODY	
		DEC	
		HQ/D	
		CORR	
		HQ	
		Z	
		ZN	

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

PRESS ALT		200		250		300		350	
10,000	1.0	1.0	.99	1.0	.98	1.0	.97	1.0	.96
20,000	.99	.99	.98	.98	.97	.97	.96	.96	.95
30,000	.97	.97	.96	.96	.95	.95	.94	.94	.93
40,000	.96	.96	.95	.95	.94	.94	.93	.93	.92

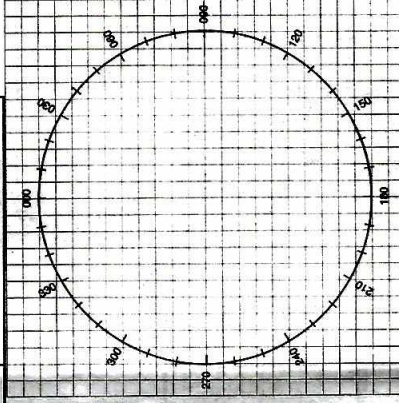
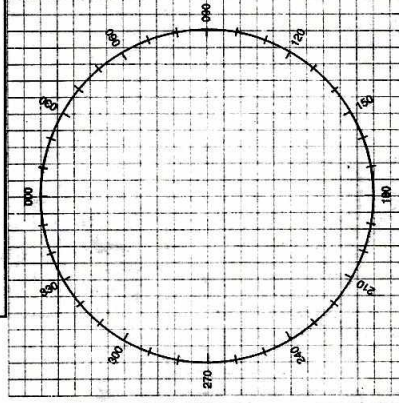
TRUE AIRSPEED CROSS-CHECK						
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	ITAS

DISTANCE REMAINING

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

[illegible]

POSITION PAPER



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
1.0	1.0
2.0	2.0
3.0	3.0
4.0	4.0
5.0	5.0
6.0	6.0
7.0	7.0
8.0	8.0
9.0	9.0
10.0	10.0
11.0	11.0
12.0	12.0
13.0	13.0
14.0	14.0
15.0	15.0
16.0	16.0
17.0	17.0
18.0	18.0
19.0	19.0
20.0	20.0
21.0	21.0
22.0	22.0
23.0	23.0
24.0	24.0
25.0	25.0
26.0	26.0
27.0	27.0
28.0	28.0
29.0	29.0
30.0	30.0
31.0	31.0
32.0	32.0
33.0	33.0
34.0	34.0
35.0	35.0
36.0	36.0
37.0	37.0
38.0	38.0
39.0	39.0
40.0	40.0
41.0	41.0
42.0	42.0
43.0	43.0
44.0	44.0
45.0	45.0
46.0	46.0
47.0	47.0
48.0	48.0
49.0	49.0
50.0	50.0
51.0	51.0
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67.0	67.0
68.0	68.0
69.0	69.0
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71.0	71.0
72.0	72.0
73.0	73.0
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86.0	86.0
87.0	87.0
88.0	88.0
89.0	89.0
90.0	90.0
91.0	91.0
92.0	92.0
93.0	93.0
94.0	94.0
95.0	95.0
96.0	96.0
97.0	97.0
98.0	98.0
99.0	99.0
100.0	100.0

-AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

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

- NATURE OF EMERGENCY

- ASSISTANCE DESIR

- PILOT INTENTIONS

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

[illegible]

NOAA · AOC · SED
N42RF AVAPS DROP LOG

Project: TEST FLT H06

Mission : Hole TEST FLT

Flight ID : 17100525H

Take Off :

Landing :

Flt Dir :

Launcher S/N:

[illegible]

NOAA · AOC · SED
N42RF AVAPS DROP LOG

Project: TEST FLT H06

Mission : HOL TEST FCT

Flight ID : 67605254

Take Off: _____ Landing: _____

Landing :

Filt Dir :

Launcher S/N:

[illegible]