



NOAA P-3 N42RF

Ocean Winds Test Flight



Flight ID: 060905H

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

1

1

1

1 (General Eastern)

Radar Altimeter 159

Rosemount Fuselage

Rosemount Fuselage 1281

Micro 99

CO2062.con

Notes:

There were no time/data gaps during this flight.

The King liquid water sensor was inoperative throughout the flight.

Altitude from inertial one and two were both inoperative throughout the entire flight.

Temperature and dewpoint values from sensor number 3 are also erroneous.

Dynamic slip pressure data from the radome was substituted into the dynamic slip pressure values for the fuselage due to erroneous spikes in the fuselage sensor from 172525Z-173155Z.

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	1015.8 mb	1014.6 mb
Corrected Tower Pressure	1016.9 mb	1015.9 mb
Flight Director:	Martin Mayeaux (813) 828-3310 ext. 3086	

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

Flt ID: 060905H	From: Kmct	To: Kmct
Flt. No: 06-060	Blk In: 1840 Z	Time On: 1831 Z
ETD: 1700 Z	Blk Out: 1631 Z	Time Off: 1641 Z
ETE: 3+00	Blk Time: 2+09 (2.2) Hrs	Flt Time: 1+50 (1.8) Hrs
Sponsoring Org: NESOIS	Program: Ocean Winds	Purpose: Test Flight

AOC Flight Crew

Aircraft Commander: Strong	Data System: McMillan
Co-Pilot: Giamme	AVAPS: Poolc
Navigator: Bishop, Siegel	System Eng:
Flight Eng: Klippel	A A:
Flight Director: Mayeaux	A A:
Avionics: Olney	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Chu, Tao	Sci	UMASS
Esteban, D	Sci	JPL
Chang, P	PI	NESDIS

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: _____

Mission ID: _____

Penetration number and time _____

Recco Times Fix # Fix Time

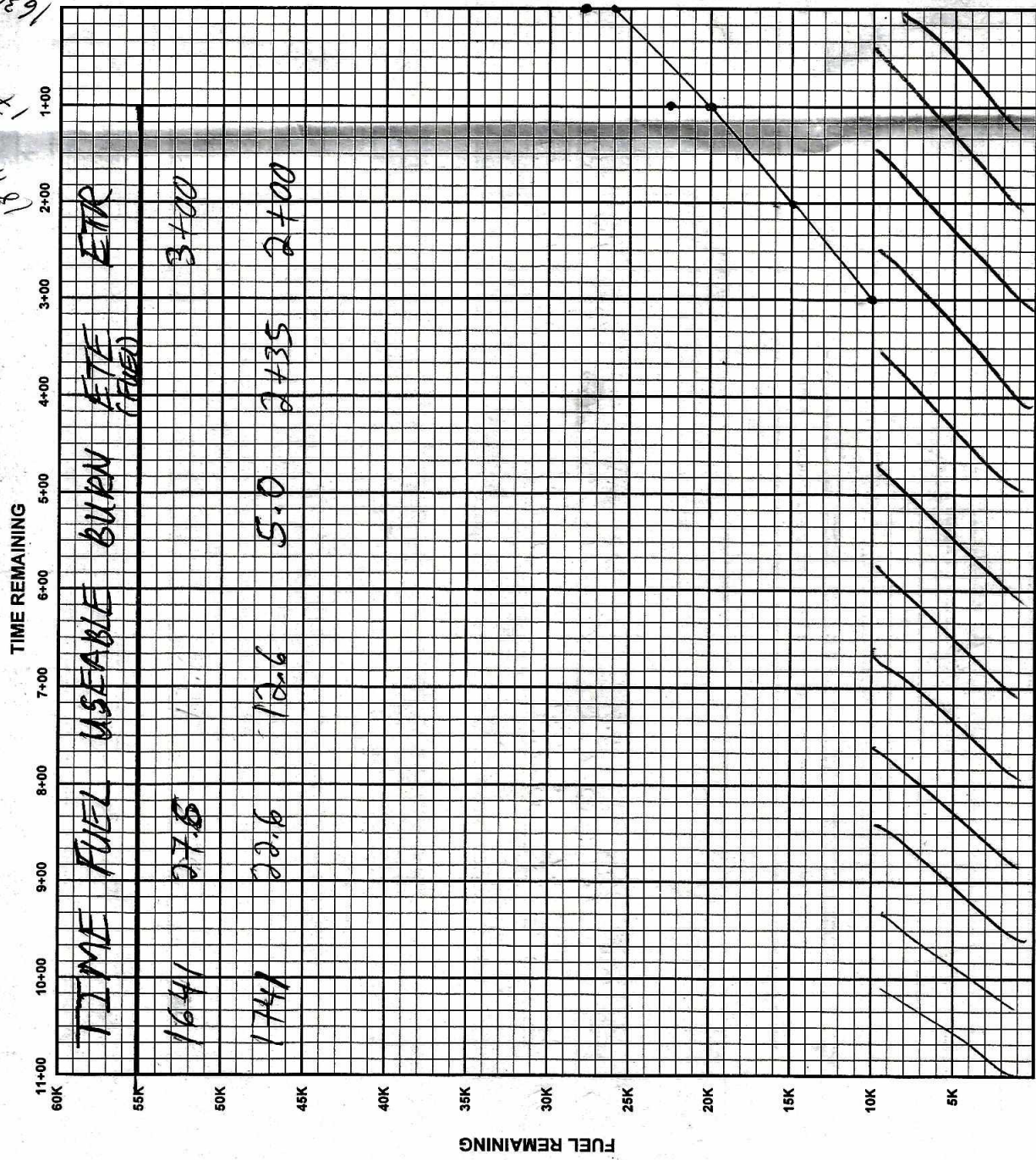
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Flight ID:		Time Off: 1641 Z		Time On: 1831 Z	
A/C Takeoff		Wx Station Takeoff		A/C Land	
Pressure		3003 mb		3000 mb	
ATIS		Time		Observation	
Takeoff		1715 Z			
Land		1755 Z		1500Z KT 75m few 010 few 250 29/23 A3000	
Number		Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		Good: Bad:			
AXBT					
AXCP					
AXCTD					

Remarks:

Goto Buoy 42003 - 15 miles eith side of buoy figure 4. 7000ft if good winds
 4000 if low winds. Land maneuvers on way out. Straight legs. 20-25 minutes
 over land. Check

RANGE CONTROL GRAPH



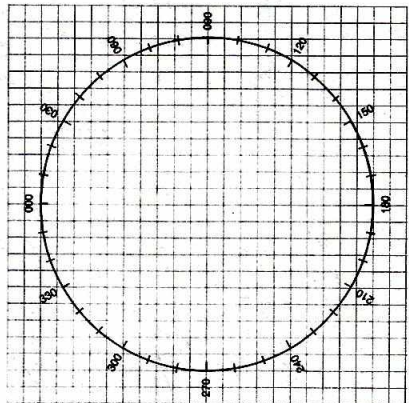
ENROUTE FUEL	
ENROUTE TIME	3+00
ENROUTE FUEL (6K/5K/4.5K RULE)	16.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	26.0
ACTUAL RAMP FUEL	27.8

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	GNT	
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)			
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						
10,000	1.0	1.0	.99	.99	.99	.99
20,000	.99	.98	.97	.97	.97	.97
30,000	.97	.96	.95	.95	.94	.94
40,000	.96	.94	.92	.92	.90	.90

TRUE AIRSPEED CROSS-CHECK						
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS
1655	216	7.5	X	X	248	232

DISTANCE REMAINING

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

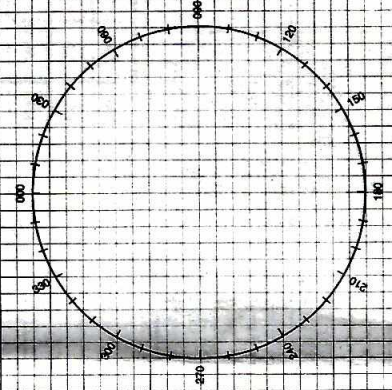
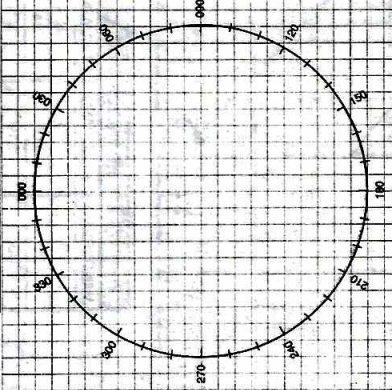
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TERMINAL ERRORS		
	INS1	INS2
DELTA LAT	+ .7	+ .5
DELTA LON	- .9	- .6
RCS	1	2
RADIAL ERROR	1	3

[illegible]

POSITION REPORT

FREQ	ALT	HDG	OTHER
			080
			119.9
			0156 sqwk
			130"
			135.5
			0404 sqwk
			1443



POSITION REPORT

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

EMERGENCY MESSAGE

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 _____

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

- HEADING TRUE/MAG

- AT _____ KTS TRUE/INDICATED

**WE ARE A D-3 AIRCRAFT WITH
- FLIGHT LEVEL OR ALTITUDE**

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

- ASSISTANCE DESIRED

- PILOT INTENTIONS
- WE HAVE ENDURANCE REMAINING

[illegible]

ENG

Block:
Text:

7/1

X