NOAA P-3 N42RF
Ocean Winds Test Flight

Flight ID: 060914H

Sensor or system	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	1 (General Eastern)
Altitude (for vertical wind)	Radar Altimeter 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	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.

From takeoff through the end of the flight, radar altimeter 232 was inoperative. However, before takeoff, from 133301Z-133440Z, data from radar altimeter 232 was substituted into radar altimeter 159.

Otherwise, all sensors worked optimally during this 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	1012.1 mb	1010.9 mb
Corrected Tower Pressure	1012.2 mb	1012.9 mb

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

36 65

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

Flt ID: 0609/4H	From: kmcf	To: kmcf
Flt. No: 06 - 062	Blk In: 1434 Z	Time On: 1425 Z
ETD: 1330 Z	Blk Out: 1329 Z	Time Off: 1336 Z
ETE: 1 + 00	Blk Time: 1 + 05 (1.1) Hrs	Flt Time: 0 + 49 (0.8) Hrs
Sponsoring Org: NESDIS	Program: Ocean Winds	Purpose: Test Instrument

AOC Flight Crew

Aircraft Commander: Strong	Data System: Mcmillan
Co-Pilot: Giramonte /	AVAPS:
Navigator: Gallagher / Bishop	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, T	PI	Umass
Contreras, R	Sci	Umass/U Wash
McComb, Jason	Obs	AOC

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) *Recco Times* *Fix # Fix Time*

Storm Name:

Mission ID:

Penetration number and time

5000-7000 ft To Sway + back

(See reverse for additional remarks)

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Flight ID: 060914H	Time Off: 1336 Z	Time On: 1425 Z

	A/C Takeoff	Wx Station Takeoff	A/C Land	Wx Station Land
Pressure	1012.1 mb	2987 → 2989 mb	1010.9 mb	2991 mb

ATIS	Time	Observation
Takeoff	1155 Z	16008KT P6sm 26/25 A2987 PA+59
Land	1331 Z	16006KT 7sm -SHRA FEW007 SCT100 ATM 250 27/26 A2990

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good: Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

1255Z 16018KT P6sm 28/26 A2989
1355Z 14005 P6sm 27/26 A2991 PA+22

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
		LCDR Bishop	CDR Strong	Mayeaux	1330'	14 SEP 2006

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
MCF 1		1/04	042	1W	041	0	041	250	L	V	1.5	250	0 0	0 0				→ PIE
PIE 2		2/12	293	1W	292	0	292	250	✓	✓	7.0	250	9 9	02 02				→ RUDOF
RUDOF 3		3/13	273	2W	271	0	271	250	✓	✓	7.0	250	55 64	13 15				→ BUOY
BUOY 4		4/14	182	2W	180	0	180	250	✓	✓	7.0	250	23 90	06 21				
BLOND	27-54.9 83-09.3	5/15																
BOXER		6/16																

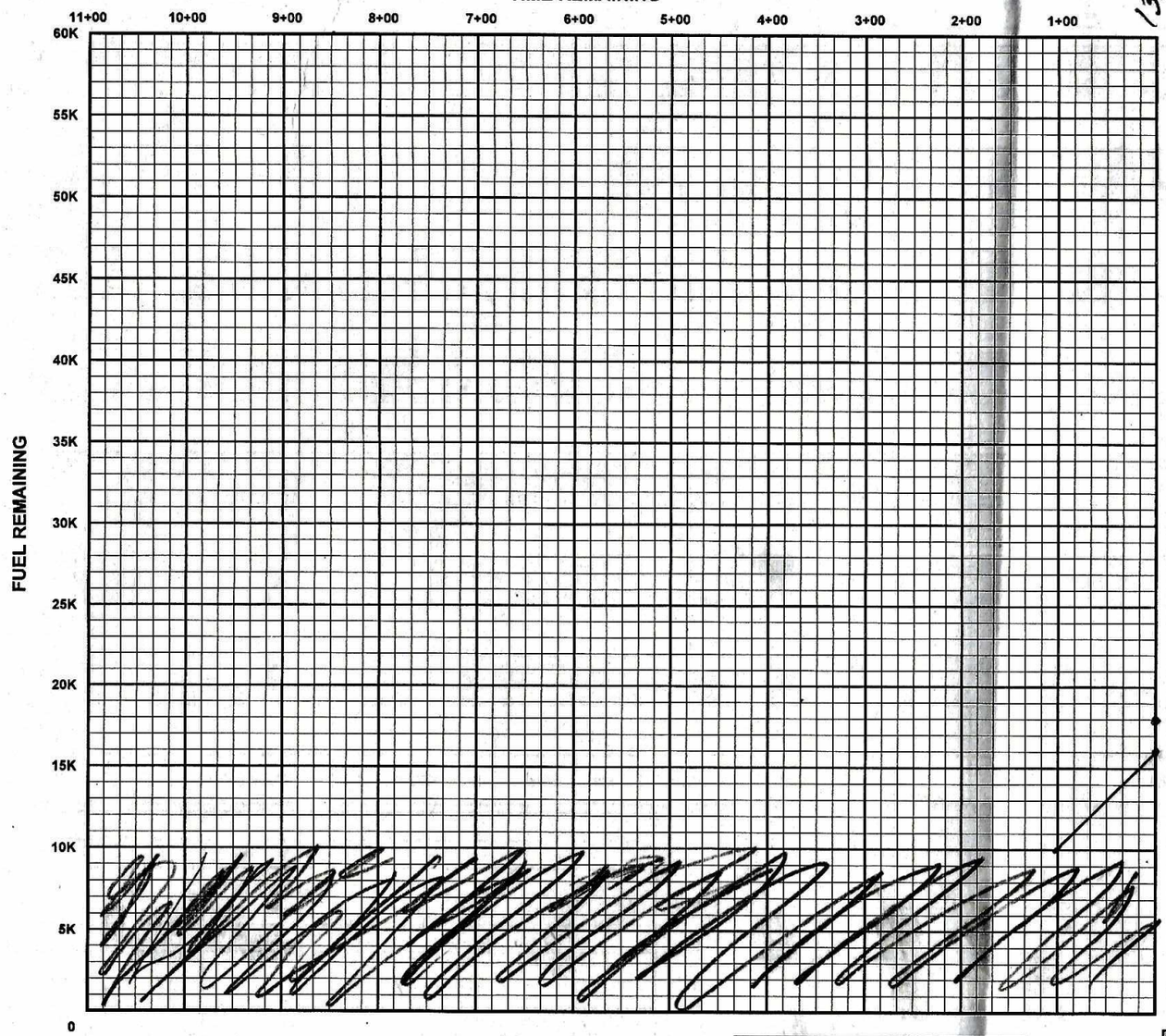
INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	1244	1244
ALIGN STATUS (0-5)	1	0
END NAV TIME	1438	1438
START NAV TIME	1322	1322
DELTA T	1+16	1+16

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	+.2	-.5
DELTA LON	-.2	-.3
RGS	Ø	1
RADIAL ERROR	1	1

REMARKS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

RANGE CONTROL GRAPH



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

ENROUTE FUEL	
ENROUTE TIME	1+00
ENROUTE FUEL (6K, 5K, 4.5K RULE)	6.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	16.0
ACTUAL RAMP FUEL	18.0

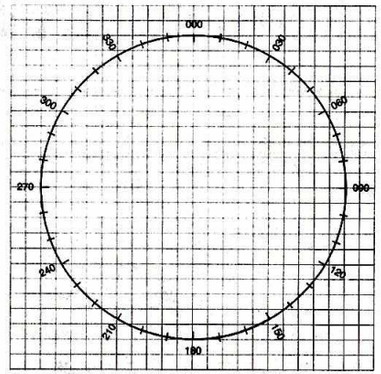
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

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

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

"F" FACTOR	PRESS ALT	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

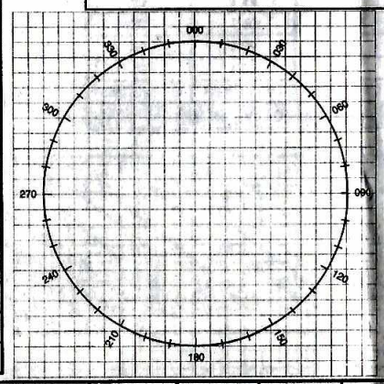
TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS

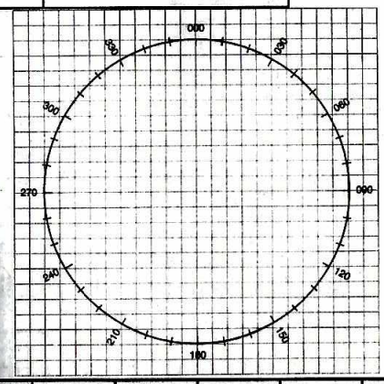
CLEARANCES

FREQ	ALT	HDG	OTHER
			VERBAL ATC
			RUN MM
			LT 190 IR
			1.6 6.0 +10
			119.65
			4631
			5043

MISSION LOG

PAGE ___ OF ___





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 _____, NOAA _____

- POSITION _____ N / S
  _____ E / W AT _____ Z
- HEADING _____ TRUE/MAG
- AT _____ KTS TRUE/INDICATED
- 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

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
ENG 1324																					
BLOCK 1330																					
TAXI 1330																					
T/O 1336																					
X✓ 1348	X✓	27-38.0 83-09.0	27-38.0 83-09.0	Ø Ø	27-37.9 83-09.0	+.1 Ø	249	IW	248	2L	246	228	272	11	7.0	238					PIE 230/30 229/34
1426		LAND AT MACDILL AFB																			
		27-51.6 82-27.6	27-50.9 82-27.8	+.2 -.2	27-51.6 82-27.7	-.6 -.3															