



NOAA P-3 N42RF

GHOSTNET

Mission 1



Flight ID: 050322H

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

CO2052.CON

Notes:

The aircraft data system was inoperative from takeoff until 210330Z. Otherwise, there were no time/data gaps during this flight.

The dynamic attack pressure (PDAF) from the lower fuselage was not recording data from takeoff until 222100Z. The dynamic attack pressure from the radome (PDAR) was used as a substitute with an offset of 14 mb.

The dynamic pressure from the fuselage (PQAF) was not recording data from takeoff until 222240Z. The dynamic pressure from the primary dynamic pressure sensor (PQF1) was used as a substitute with an offset of 0.4 mb.

Dewpoint sensor number two exhibited rhythmic oscillations throughout the flight.

The King Liquid Water sensor was inoperative throughout the flight.

The aircraft INE positions were re-navigated with respect to GPS.

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	1019.3 mb	1016.4 mb
Corrected Tower Pressure	1019.3 mb	1016.3 mb

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

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Flt ID: 050322H	From: PHNL	To: PHNL
Flt. No: 05-016	Blk In: 0151 Z	Time On: 0143 Z
ETD: 2100 Z	Blk Out: 2042 Z	Time Off: 2056 Z
ETE: 6+00	Blk Time: 5+09 (5.2) Hrs	Flt Time: 4+47 (4.8) Hrs
Sponsoring Org: NOAA/ETL	Program: Ghostnet	Purpose: IOP 1

AOC Flight Crew

Aircraft Commander: Strong	Data System: memillan
Co-Pilot: Choy	AVAPS: Dehado
Navigator: Gallagher ✓ Siegel ✓	System Eng:
Flight Eng: Wade ✓	A A:
Flight Director: Mayeaux ✓	A A:
Avionics: Rogers ✓	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Ash ✓	PM	AOC
Veenstra ✓	PI	Airborn Technologies
Chwinski ✓	Sci	NOAA/ETL
Madsen ✓	Sci	NOAA/ETL
Jorgensen ✓	Sci	NOAA/ETL
Foley ✓	Sci	Peel Peel / NOAA
Spencer ✓	Sci	Peel Peel NOAA

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

Recco Times

Fix # Fix Time

Storm Name: _____

Mission ID: _____

Penetration number and time

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

Flight ID: 050322H Time Off: 2056 Z Time On: ~~0143~~ 0143 Z

A/C Takeoff		Wx Station Takeoff		A/C Land		Wx Station Land	
Pressure	<u>1019.3</u> mb	<u>3010</u> <u>1019.3</u> mb	<u>1016.4</u> mb	<u>3001</u> (<u>1016.3</u>) mb			
ATIS	Time	Observation					
Takeoff	<u>— Z</u>	<u>N/A — 07005KT</u>					
Land	<u>0053 Z</u>	<u>02007KT 105m BKN055 27/18 A3001</u>					
	Number	Data Disposition / Date / Quality					
Flight Level Tapes	<u>2</u>						
Radar Tapes							
Cloud Physics Tapes / CDs							
Video Tapes							
Dropsondes		Good: Bad:					
AXBT							
AXCP							
AXCTD							

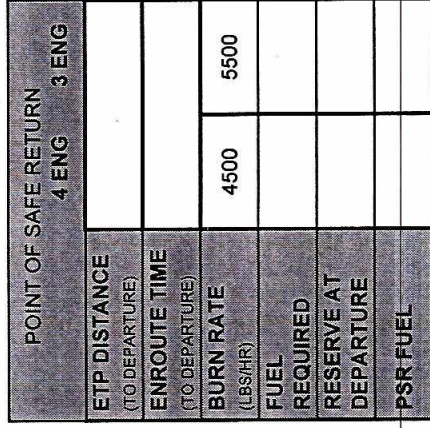
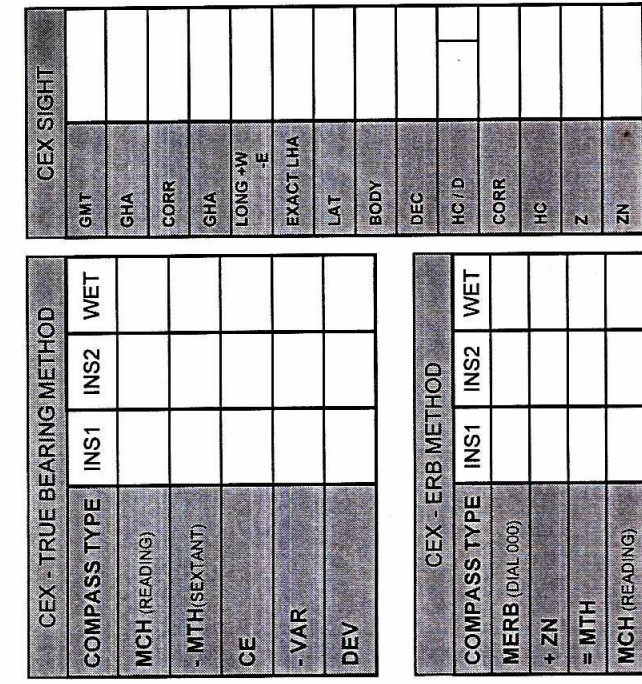
Remarks:

Data system freeze at Takeoff. Return at 210200
 215830 - OAPM reading 0.1mb. ~~to~~ will have to look at it when we land - It was turned on at 2227Z
 Radar went down 2451Z Now it works
 2218 - overflew ocean current line
 TAS split 110 degrees
 U Buoy - LL Buoy - T Buoy

RANGE CONTROL GRAPH

ENROUTE FUEL	
ENROUTE TIME	6:00
ENROUTE FUEL (6K, 5K 4.5K RULE)	31.0
RESERVE AT DESTINATION	8.0
REQUIRED RAMP	39.0
ACTUAL RAMP FUEL	42.9

2250	37.5
2+00	1+00



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
2155	211	010	 	 	25	217	229 / 221
			 	 			

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

MISSION		NAVIGATOR		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF										
PHTL		GM #1		STRONG		MAYEAUX		2100 1 2006		24 MAR 05								
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
PHTL	N 21 19.0 W 157 55.0	2/12	173	10E	183	0	183	210	L	V	010	210						
ALPHA	21 04.5 157 56.4		308		318		318											
S	21 23.8 158 14.8		322		332		332											
R	21 27.5 158 16.9		330		340		340											
V	21 32.3 158 18.8		271		281		281											
LO	21 33.7 158 26.8		305		315		315											
2	25 00.0 162 19.3		296		306		306											
3	25 29.8 162 59.5	8/18	033		043		043											
4	25 58.0 162 26.8	9/14	021		031		031											
5	26 16.3 162 14.6	5/15	009		019		019											
6	26 55.4 162 00.0	6/16	078		088		088											
7	26 57.5 160 49.0	7/17	110		120		120											
8	26 05.9 159 05.0	8/18	117		127		127											
9	25 43.7 158 32.0	9/19	169	V	179		179											
10	23 39.9 158 29.7	1/10																

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME	1935	1935	
ALIGN STATUS (0-5)	0	0	
END NAV TIME	230200	230200	
START NAV TIME	2015	2015	
DELTA T	5135	5135	

TERMINAL ERRORS		INS 1	INS 2
DELTA LAT	-0.7	-2.9	
DELTA LON	+2.9	+1.5	
RGS	4	8	
RADIAL ERROR	3	2	

REMARKS	

