



NOAA P-3 N42RF

Ghostnet

IOP3



Flight ID: 050329H

Sensor or system

Number or Name

INE

1

Accelerometer

1

Temperature Probe

1

Dew Point Probe

1 (General Eastern)

Altitude (for vertical wind)

Radar Altitude 159

Static Pressure

Rosemount Fuselage

Dynamic Pressure

Rosemount Fuselage 1281

Time Source

Micro 99

Constants File

CO2052.CON

Notes:

There were no time/data gaps during this flight. However, immediately after landing, at 045501Z there was a power glitch that caused the data system to shut down improperly. Thus, the data from the tape or file ends abruptly.

Dewpoint sensor number two exhibited rhythmic oscillations throughout the flight.

Spikes in radar altimeter 159 and all derived values from this sensor from 044301Z-044430Z are the result of flying over Oahu during initial descent into Honolulu. No corrections were made to the data.

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	1019.0 mb
Corrected Tower Pressure	1019.6 mb	1017.3 mb

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

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

Flt ID: 050329H	From: PHNL	To: PHNL
Flt. No: 05-019	Blk In: 0458 Z	Time On: 0453 Z
ETD: 2130 Z	Blk Out: 2102 Z	Time Off: 2115 Z
ETE: 8:0	Blk Time: 7:56 (7.9) Hrs	Flt Time: 7:38 (7.6) Hrs
Sponsoring Org: NOAA/ETL	Program: Ghostnet	Purpose: IOP3

AOC Flight Crew

Aircraft Commander: Strong ✓	Data System: Memillon
Co-Pilot: Choy ✓	AVAPS: Delgado
Navigator: 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
Veenstra, J ✓	PI	Noaa ETL APL
Churnside, J ✓	Sci	Noaa ETL
Bowman, E Bower, Caroline ✓	Obs	Air Force/JTWC
Hograte, K ✓	Obs	NMFS
Dameron, Scott Oliver	Obs/Sci	NMFS
Wong, Kerin	Obs/Sci	NMFS

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: 050329H		Time Off: 2115 Z		Time On: 0453 Z	
A/C - Takeoff		Wx Station - Takeoff		A/C - Land	
Wx Station - Land					
Pressure	1019.3 mb	3011 (1019.6) mb	1019.30 mb	3004 (1017.3) mb	
ATIS	Time	Observation			
Takeoff	2053 Z	050114 010000 105m Fw 022 SCT 028 S4036 A3011 28/19			
Land	0353 Z	050132 105m Fw 035 010055 26/19 A3004			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		Good: Bad:			
AXBT					
AXCP					
AXCTD					

Remarks:
 214829 - TD1 + TD2 have 15° difference - 16000 ft. - 31.8, -46.0. Print a Sounding when we return.
 We are at 548-552 mb. 2211Z - TDs only 5 degrees apart. 2213Z - 1° apart
 Radar problems with the 1f.
 Apu didn't start at landing. Bad ~~shut down~~ shutdown on scientific power. May impact tapes

PAGE _____ **OF**

FIX TYPES
(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

[illegible]

MISSION PREFLIGHT LOG

NAVIGATOR

SIEGEL

AIRCRAFT COMMANDER

STRONG

FLIGHT DIRECTOR

MAJEAN

SCHEDULED/ACTUAL TAKEOFF TIME

2130

29 APR 05

DESTINATION
PHNL

MISSION
GHOSTHEAD # 3

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
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PHNL	N 21 18.5 W 157 55.8	2/12			268													
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KEOLA	21 11.9 158 29.9				302													
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CPAIL	21 30.8 158 51.6				302													
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NAHUA	21 44.2 159 14.7				339													
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L1H	21 57.9 159 20.3				355													
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2	29 00.0 160 00.0				007													
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3	31 43.7 159 36.3				054													
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4	32 00.3 159 09.9				360													
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5	34 13.9 159 09.9				102													
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6	33 55.6 157 32.2				174													
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7	32 27.5 157 22.0				115													
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8	31 02.8 155 55.3				151													
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9	30 45.7 155 12.0	4/14			140													
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10	29 44.2 154 12.3	5/15			199													
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2001C	26 01.9 155 35.4	6/16			199													
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ADACT	24 02.6 156 19.2	7/17			195													
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TDADS	22 46.2 156 41.8				195													
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MACCI	21 50.4 156 57.9	8/18			232													
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BANZO	21 25.0 157 30.6	9/19			230													
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GRILL	21 19.7 157 37.4				281													
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CKIT	21 15.9 157 42.2	1/11																
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INS PERFORMANCE	
INS 1	INS 2

BEGIN ALIGN TIME	1924	1929
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ALIGN STATUS (0-5)	0	0
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END NAV TIME	0454	0454
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START NAV TIME	2055	2055
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DELTA T	7459	7459
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TERMINAL ERRORS

INS 1		INS 2	
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DELTA LAT	-1.3	-1.7	
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DELTA LON	+1.1	+2.6	
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RGS	2	2	
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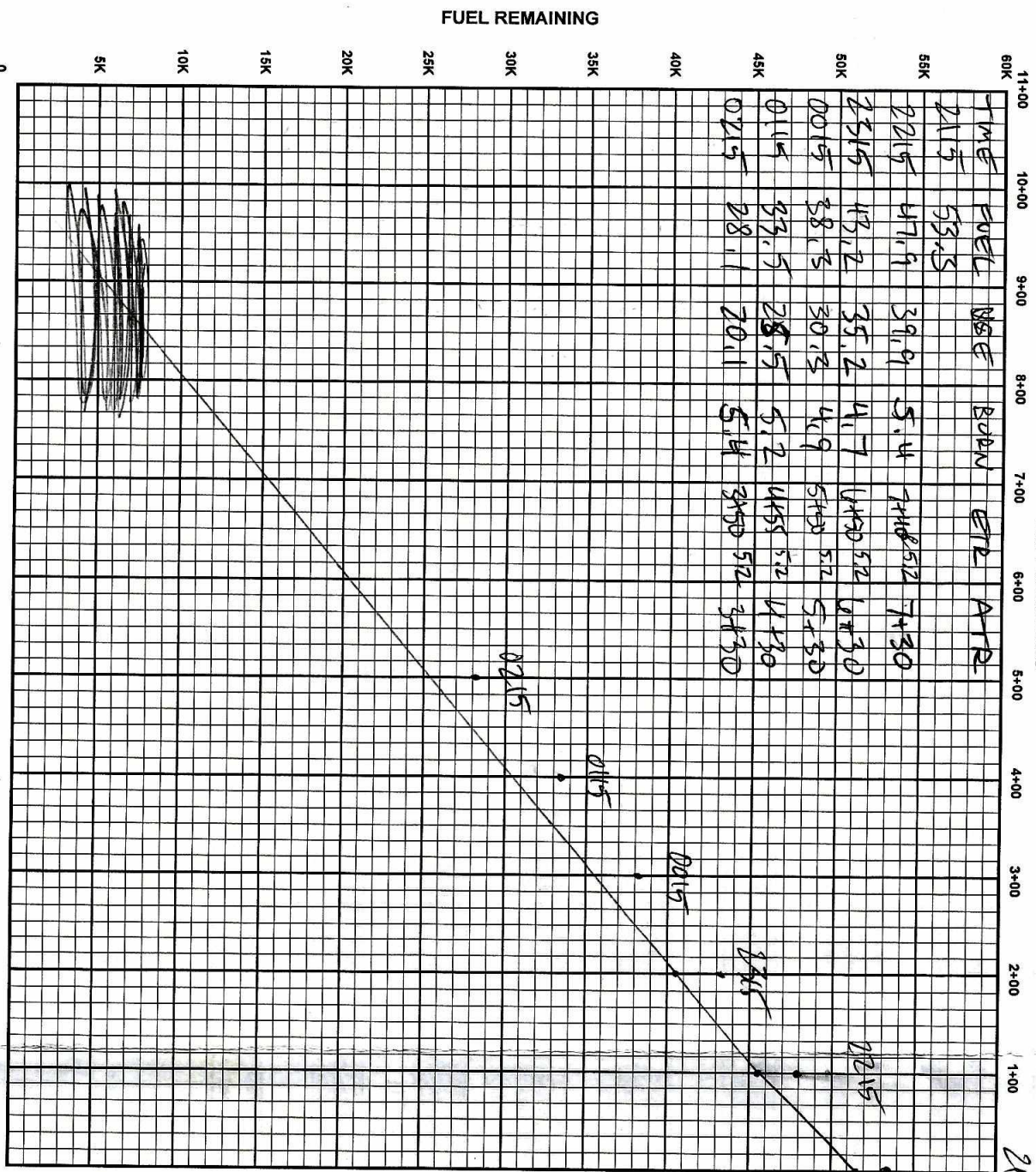
RADIAL ERROR	1	4	
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REMARKS			
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15.0
1170
4.4

RANGE CONTROL GRAPH

TIME REMAINING



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

DISTANCE REMAINING

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

ENROUTE FUEL	
ENROUTE TIME	8+30
ENROUTE FUEL (6K SK4 SK RULE)	43.5
RESERVE AT DESTINATION	8.0
REQUIRED RAMP	51.5
ACTUAL RAMP FUEL	53.5

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	

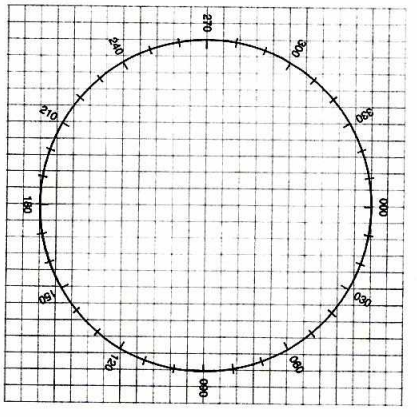
WIND FACTOR				
PRESS ALT	200	250	300	350
10,000	1.0	1.0	.99	.99
20,000	.99	.98	.97	.97
30,000	.97	.96	.95	.94
40,000	.96	.94	.92	.90

35
2.5
43.5

CEX - TRUE BEARING METHOD			
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- (MTH/SEXTANT)			
CE			
-VAR			
DEV			

CEX - IRB METHOD			
COMPASS TYPE	INS1	INS2	WET
MERB (DAL 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			



TRUE AIRSPEED CROSS-CHECK					
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT
0330	203	185		-11	270
					250
					275

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 <u>42</u> - 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 <u>15</u> SOULS ON BOARD - NATURE OF EMERGENCY _____ - ASSISTANCE DESIRED _____ - PILOT INTENTIONS _____ - WE HAVE _____ ENDURANCE REMAINING _____

