



NOAA P-3 N43RF

TD #16



Flight ID: 050907I

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	2 (Edgetech)
Altitude (for vertical wind)	Radar Altimeter 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	CO3051.CON

Notes:

There were no time data/gaps during this flight.

Data from radar altimeter 232 was substituted in place of radar altimeter 159 from 042101Z-042630Z, 043105Z-043112Z, 044405Z-044421Z, and 091410Z-091700Z.

The difference in values between the dynamic attack pressure from the radome and the fuselage is greater than 20 mb. No corrections were made to the data.

There were numerous times during the flight where the dewpoint temperature exceeded ambient temperature resulting in RH>100%. This was likely due to rain, a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. Edits to dewpoint sensor number two were made between 045030Z-045200Z, 045500Z-045700Z, and 045600Z-045730Z to bring the relative humidity values below 120%.

The King Liquid Water sensor was not operating during this flight.

The aircraft INE positions were renavigated 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	1012.7 mb	1008.4 mb
Corrected Tower Pressure	1013.4 mb	1012.4 mb

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

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AOCWF1

Flt ID: 10509017	From: KMCF	To: KMCF
Flt No: 05-050052	Blk In: 0923	ATA: 0914
ETD: 0430Z	Blk Out: 0412Z	ATD: 0424Z
ETE: 5:00	Blk Time: 5:11 (5.2)	Flt Time: 4:50 (4.8)
Sponsor Org: NHC	Program: HURRICANE RECCO	Purpose: TD #16

AOC Personnel

AC: TEBEEST	Sys Eng:
CP: SILAH	Data Sys: LYNCH
Nav: GALLAGHER	Radar:
FE: KLIPPEL/FLOYD	GPS/BT: OLNEY
FD: DAMIANO/MAYEAUX	Cld Phys:
Avionics: SANS SOUCI	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
ROGERS, R	OBS	HRD
DODGE, P	RADAR	
ABERSON, S	HRD WORKSTATION HRD WORKSTATION	

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

~~0216A~~ CYCLONE

80NM SW/S/SE

06Z 27.5 78.6
DRIIFT N
SK 330/3

NW	28°44'	80°04'
SE	26°21'	77°27'
NE	28°32'	77°06'
SW	26°21'	79°33'
S	26°21'	77°
	25°51'	78°30'
N	28°03'	78°30'

032,
2725,
78°30'

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AOCWF2

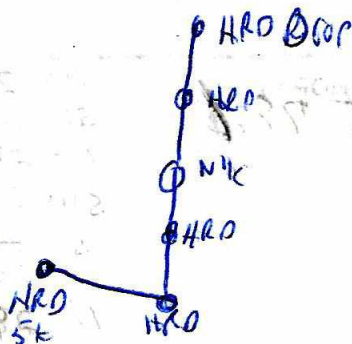
Flt ID: 050907 Time Off: 0424Z Time On: 0914

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	<u>1012.7</u>	<u>29.94</u>	<u>1008.4</u>	<u>29.91</u>

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes		
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	<u>6</u>	<u>1 bad (HRD) 1 NHC 5 Good (HRD)</u>

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks 0526Z 050907 28N 2914 2806
8001 08001275187502906 07126

5000 ft. 5K sw pt. Drop Sonde at pt. R. HRO sonde
Drop in center NHC. May be a drop for HRO in North of center

2075# 10

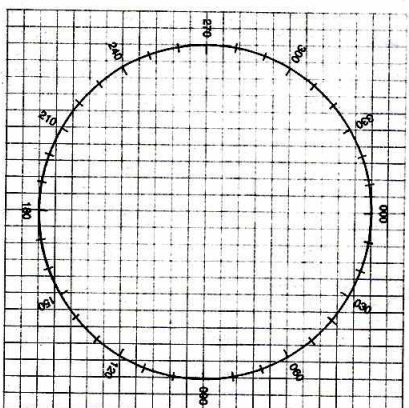
2+00 1+00

ENROUTE FUEL	
ENROUTE TIME	4 ³⁰
ENROUTE FUEL (64.5K/4.5K RULE)	73.5
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	33.5
ACTUAL RAMP FUEL	44.6

$$\frac{25}{10} = 2.5$$

CEX SIGHT	
GMT	
GHA	
COHR	
GHA	
LONG+W -E	
EACCTURA	
LAT	
BODY	
DEC	
HC/D	
COHR	
HC	
Z	
ZN	

DEC	
HC/D	
CORR	
HC	
Z	
ZN	



F ² FACTOR					
	PRESS	200	250	300	350
ALT					
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

[illegible]
$$ETP = .5(TOTAL\ DISTANCE \times OUTBOUND\ WIND\ FACTOR)$$

[illegible]

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 _____	E / W _____
- AT _____	AT _____
_____ KTS TRUE/INDICATED	
FLIGHT LEVEL OR ALTITUDE _____	
WE ARE A P-3 AIRCRAFT WITH _____	
SOUTHS ON BOARD	
- NATURE OF EMERGENCY _____	
- ASSISTANCE DESIRED _____	
- PILOT INTENTIONS _____	
- WE HAVE _____	
ENDURANCE REMAINING _____	
Z _____	

[illegible]

INS PERFORMANCE	
INS 1	INS 2
BEGIN ALIGN TIME	02 ⁴⁰
ALIGN STATUS (0-5)	0
END NAV TIME	09 ³⁰
START NAV TIME	04 ⁰⁵
DELTA T	5+ ²⁵

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+5.4	+1.0
DELTA LON	-1.8	-0.7
RGS	3	3
RADIAL ERROR	6	1

[illegible]

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N43RF AVAPS DROP LOG

Project : Hurricane '05 / RAINEX

Mission : RECCO TDI/6

Flight ID : 050907i

Take Off : _____

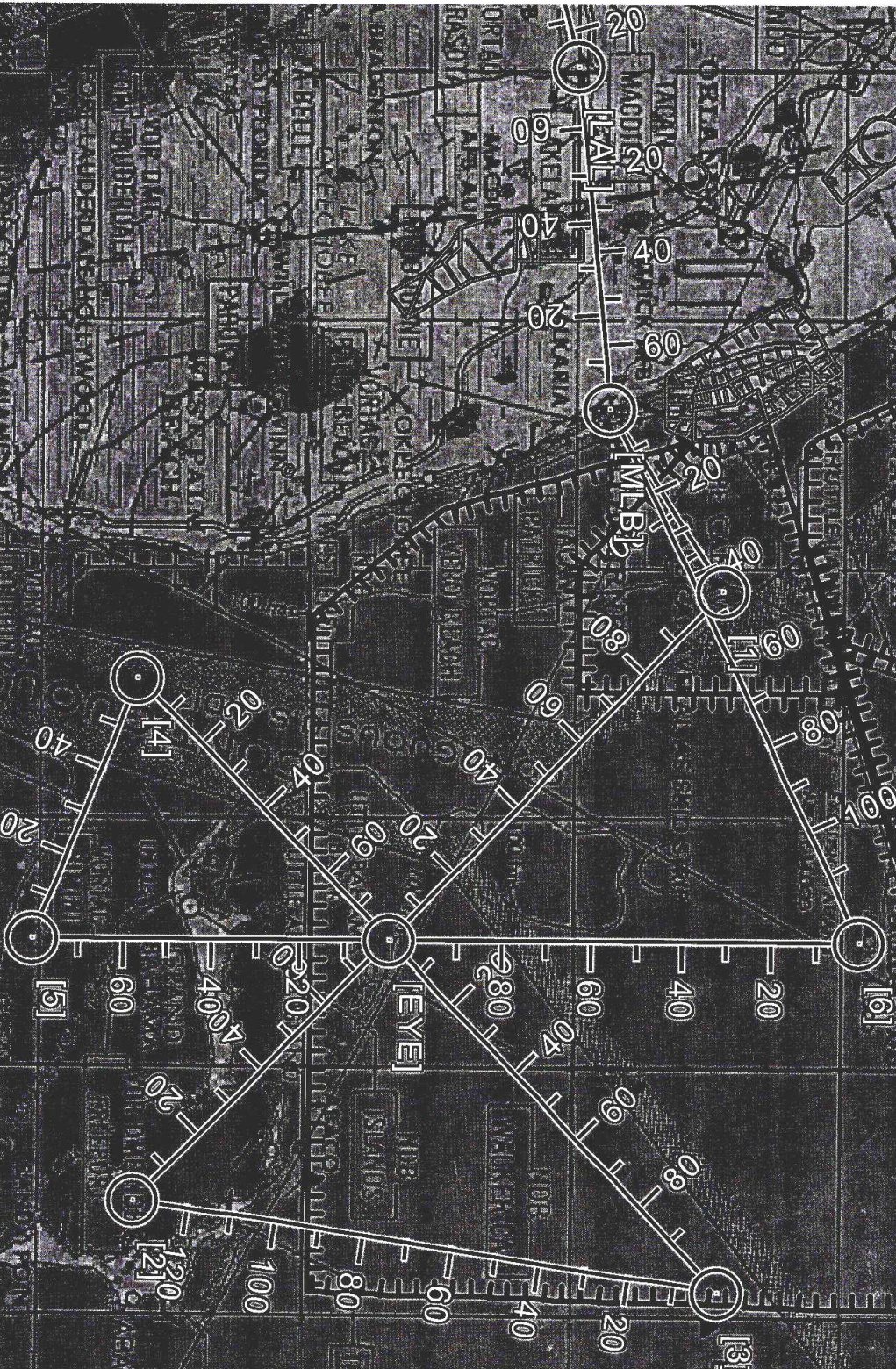
Landing : _____

Flt Dir : DAMIANO / MAREV Launcher S/N:

[illegible]

~~change all to NHC~~ NHC 1 HRD 5

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