



NOAA P-3 N42RF Invest

Flight ID: 050906H

Sensor or system

Number or Name

INE.....	2
Accelerometer.....	2
Temperature Probe.....	1
Dew Point Probe.....	1
Altimeter (for vertical wind).....	RA-159
Static Pressure.....	Rosemount (fuselage)
Dynamic Pressure.....	Rosemount (fuselage)
Time Source.....	Micro 99

Local Met. Data: Not copied at takeoff

Take off: 1630Z

Land: 2211Z

The RA-232 was substituted for the RA-159 during take off and landing due to spiking (T.O. 162701-163258; 220118-221400 Land).

All other instruments functioned normally during the flight.

There were data gaps noted: 165600-165613

There were times during heavy precipitation events (e.g. eye wall penetrations) when the dew point exceeded ambient temperature yielding a RH of greater than 100%. This is probably due to a wet bulb effect on the total temperature probe and/or the dew pointer over heating while trying to remove excess moisture. In these instances, no corrections were attempted.

SPECIAL NOTE: These data have not had Dr. Dave Jorgensen's vertical wind algorithm applied to them. Only the Aircraft Operations Center standard vertical wind algorithm has been applied. A new post-flight data processing algorithm was employed which currently lacks the Jorgensen method. The data can and will be rerun if required by the investigator.

	Take off	Land
Aircraft Static Pressure	1014.7 mb	1011.8 mb
Corrected Tower Pressure	1015.2 mb	1012.9 mb
Flight Director:	Tom Shepherd 813-828-3310 x3053	

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 050906H	From: KMCF	To: KMCF
Flt No: 05-	In: 224 ^Z	On: 2211 ^Z
ETD: 1630 ^Z	Out: 1616	Off: 1630
ETE: 8+00	Blk Time: 6+05 6.1 Hrs	Flt Time: 5+41 5.7 Hrs
Sponsoring Org: NOAA/NHC	Program: Hurr 05	Purpose: INVEST E. of Miami

AOC Flight Crew

Aircraft Commander: KENNEDY, P	Data System: M E Millan, S
Co-Pilot: STRONG, T	AVAPS:
Navigator: BRAKOB, D	System Engineer:
Flight Eng: WADE, S	AA:
Flight Director: SHEPHERD, T	AA:
Avionics: ROGERS, M	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P	PI	NOAA/NESDIS
ESTEBAN, D	IWRAP	
ASUZU, P	IWRAP	UMass
CONTRERAS, R	IWRAP	
SMULL, B	RADAR	U. WASH.
BLACK, M	HAPS	NOAA/HRD

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times	Recco	Fix #	Fix Time
Storm Name: _____	800-603-4980 Wx CR	1658	1	1745
Mission ID: NOAA 0116A INVEST	Rich Johnson	1710	2	1922
26.6N 78.6W	Jeanette Jones	1818	3	2101
1007 mb		1855		
		1950		
		8-2013		
		9-2030		

(See reverse for additional remarks)

2750
8005

U.S. DEPT OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER

FLT ID: 050906H

TIME OFF: 1630 Z

TIME ON: 2211 Z

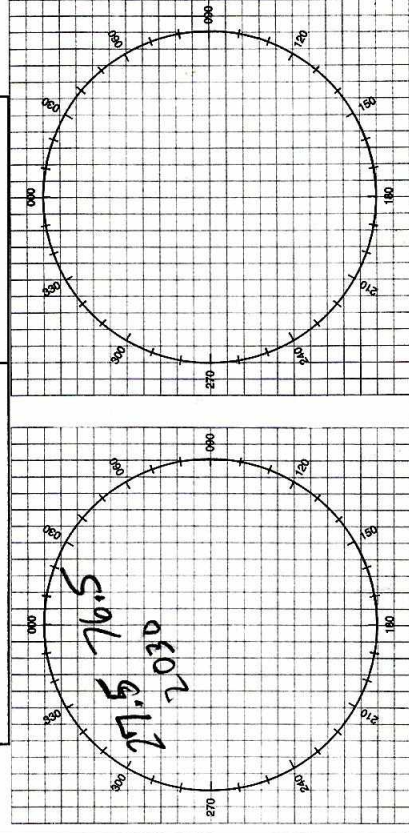
	A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure	1014.7	29.98	1011.8	29.91
ATIS - Takeoff				
ATIS - Land				
Data Source	Number	Data Disposition / Date / Quality		
Flight Level Tapes	2			
Radar Tapes	1			
Cloud Physics Tapes / Cds	0			
Video Tapes	0			
Dropsondes	1	Good:	Bad: 1	Total: 1 (From 1500' RA)
AXBT	0			
AXCP	1			
AXCTD	1			
SONOBUOY				

REMARKS:

INS #1 T.U. almost entire flight (position)

[illegible]

PAGE (OF

[illegible]

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
NATURE OF EMERGENCY

- NATURE OF EMERGEN- ASSISTANCE DESIRED

- ASSISTANCE DESIN
- PILOT INTENTIONS

ENDURANCE REMAINING

[illegible]

26-57

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

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

[illegible]

050903H

Time	Lat	Lon	TA	TD	Trk	Hdg	RA	PS	SP	WD	WS	WZ	Comments
161608	27.50.94	-82.29.58	37.0	20.2	98.9	135.2	1.0	1014.6	1014.7	57.6	6.9	51.0	Block out
163004	27.50.76	-82.31.44	30.0	19.4	40.4	39.0	-5.0	1017.3	1016.7	320.4	2.5	15.9	Take off
165142	28. 7.80	-81. 6.12	6.7	5.6	98.5	96.6	3518.0	670.1	1010.0	22.7	6.8	.5	55 nm from IP; 10K PA
170307	28. 2.28	-80.13.08	7.7	3.8	96.8	94.6	3544.0	670.2	1011.8	3.0	6.9	.5	Feet wet now
170956	27.52.98	-80. 4.50	24.3	18.1	135.2	131.1	452.0	961.6	1012.1	32.4	9.7	.4	Inbound
172248	27.17.88	-79.26.28	23.5	19.4	135.8	135.2	446.0	961.8	1011.7	339.1	8.2	.6	Winds on our tail here.
183906	27.16.62	-76.57.00	24.7	21.8	.0	2.7	448.0	960.9	1010.8	162.7	12.1	.1	Marked cntr at 1745Z; 2650N 7824W
184008	27.20.76	-76.57.06	24.6	22.7	.2	3.3	449.0	960.9	1010.9	159.1	11.7	.1	Abt 10 min from NE pt to begin inbound leg
185053	28. 3.72	-76.58.02	25.2	20.7	.2	3.8	455.0	960.9	1011.5	146.4	9.2	.3	At NE pt; trn to trk 225
191038	27.15.96	-77.57.78	24.9	21.0	223.6	218.8	447.0	959.7	1009.3	125.9	11.7	.3	Abt 35 nm frm last fix
192218	26.41.10	-78. 6.72	24.0	20.6	173.5	174.0	437.0	959.8	1008.5	49.9	2.5	-.1	Fix #2; 1008 mb
195516	25.20.58	-79.14.88	23.7	20.8	89.8	88.7	461.0	959.6	1011.1	298.3	9.0	-.0	Hdg to SE side for 1 more fix
201401	25.23.52	-77.53.10	24.4	21.4	85.9	87.4	445.0	960.8	1010.4	261.2	12.5	.2	Passing Berry Islands; about 13 min from turn inbound
202529	25.26.76	-77. 2.64	25.8	21.5	87.7	90.4	450.0	960.7	1010.6	252.2	11.8	-.1	Abt 3 min from turn; just not much here....
204114	25.55.74	-77.26.82	24.8	22.2	305.1	301.6	440.0	960.7	1009.6	220.7	8.7	.8	Now inbound for last pass
211313	27.19.74	-78.55.98	23.1	21.1	316.0	319.7	444.0	959.7	1009.3	44.6	5.5	.1	Sonde drop @ 2106Z
212521	27.51.24	-79.31.92	23.3	21.1	315.4	318.8	457.0	959.5	1010.5	54.0	4.6	.6	Fix 3 2101Z; 1008 mb
212928	28. 1.32	-79.44.76	22.3	19.3	267.1	269.7	616.0	942.7	1011.1	50.4	5.3	-.0	Climb; RTB
215347	27.58.98	-81.48.90	7.3	.6	269.0	273.2	3841.0	643.6	1005.3	7.5	8.0	-.0	Abt 10 min out
221126	27.50.40	-82.31.86	28.4	21.8	38.3	37.6	-7.0	1013.5	1012.7	30.6	4.5	-.5	Land
222042	27.50.94	-82.29.58	28.4	21.7	273.4	135.6	13.0	1012.1	1013.5	83.3	4.4	-.1	Block in