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

FLT ID: 100827H	From: KMCF	To: TBPB
Flt No: 10 - 057	In: 1833 Z	On: 1825 Z
ETD: 1330 Z	Out: 1243 Z	Off: 1252 Z
ETE: 6 + 05	Blk Time: 5 + 50 (5.8) Hrs	Flt Time: 5 + 33 (5.6) Hrs
Sponsoring Org: HRD	Program: Research	Purpose: Ferry

AOC Flight Crew

Aircraft Commander: Newman	Data System: Bosko
Co-Pilot: Sweeney / Martin	AVAPS: Lynch, T
Navigator: Brakob /	System Engineer:
Flight Eng: Klippel / Darby	AA: Richards
Flight Director: Damiano / Williams	AA: Warnecke
Avionics: Olney	Crew Chief: Crouch

Participating Scientists / Visitors (18)

Name (Last, First)	Activity on Aircraft	Affiliation
Rogers, Rob	PI	HRD
Uhlhorn, Eric	SCI	HRD
Murillo, Shirley	SCI	HRD
Cione, Joe	SCI	HRD

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

Storm Name: TRAIN

Mission ID: NOAA9 WXWXA

(See reverse for additional remarks)

U.S. DEP'T OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER

FLT ID: 100827H	TIME OFF: 1252 Z	TIME ON: 1825Z Z

	A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure	1015.0	1014.8 2998.	1006.5	1006.3 10X3

ATIS - Takeoff	1155 U7006KT 10SM CLR 25/25 A2998
ATIS - Land	I / 15006 10 FEW016TCU 31/25 QNH 1013

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

REMARKS:

- TD2 went out in beginning, restart brought it back

NOAA P-3 N42RF
Ferry Flight KMCF-TBPB
27 Aug 2010

Flight ID: 100827H

Sensor or system	Variable Name
Inertial	INE1
Accelerometer	ACCI1
Temperature Probe	TT1
Dew Point Probe	TDM1X
Altitude (for vertical wind)	ALTI1
Static Pressure	PSF
Dynamic Pressure	PQF1
Constants File	n42_hur10v2.adc
Project Directory	/acdata/2010/MET

Local Met Data:	Takeoff (1252Z)	Landing (1825Z)
Aircraft Static Pressure	1015.1 mb	1006.5 mb
Tower Pressure	1014.8 mb	1006.3 mb

Notes

There were no data gaps.

Altnvl, Novatel GPS has small 10-30M spikes throughout flight. Alti2, radar altimeter is noisy and has spikes throughout the flight. Alti1, RINNU GPS is default. Novatell Lat and Lon latnvl, lonnvl exhibit small spikes at the end of the flight. Lat1 and Lon1 are default.

TDM2 dropped out from 130627Z – 135333Z, then again before descent from 181610Z-182208Z. TDM1 is default but was substituted for TDM2 during the following times when TDM1 was overshooting actual TD: 141551Z-141629Z, 151714Z-151815Z and 174536Z-174621Z.

All other instruments appeared to work optimally.

No instruments were released.

Flight Director: *Barry Damiano / Jess Williams*
Phone #: *(813) 828-3310 ext. 3041*

N42 Ferry KMCF-TBPB

08/27/2010 UTC, 12:53:21-18:19:40

	mean	sdpop	min	max
Latitude (degrees), 1 s/acc	-76.61	6.96	-82.08	-69.73

DATE		SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
WX MISSION IDENTIFICATION		STORM NUMBER IDENTIFIER		OB
VORTEX DATA MESSAGE				
A		DATE AND TIME OF FIX		
B	DEG MIN N S	LATITUDE OF VORTEX FIX		
	DEG MIN E W	LONGITUDE OF VORTEX FIX		
C		MINIMUM HEIGHT AT STANDARD LEVEL		
D	17	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED		
E	30006	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND		
F	146 05	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER		
G	300 02	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND		
H	1012 EXT	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.		
I	-2 / 5170	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE		
J	-1 / 5171	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE		
K	-29 / NA	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE		
L	NA	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.		
M	NA E11/15/5 CO	EYE SHAPE/ORIENTATION/DIAMETER. **CODE EYE SHAPE AS:** C -Circular; CO - Concentric; E- Elliptical. **TRANSMIT ORIENTATION OF MAJOR AXIS IN TENS OF DEGREE** (i.e., 01-010 to 190; 17-170 to 350). **TRANSMIT DIAMETER IN NAUTICAL MILES.** Examples: C8 - Circular eye 8 miles in diameter. E09/15/5 - Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.		
N	12345 /	FIX DETERMINED BY/FIX LEVEL. **FIX DETERMINED BY:** 1 - Penetration; 2 - Radar; 3 - Wind; 4 - Pressure; 5 - Temperature. **FIX LEVEL:** Indicate surface center if visible; indicate both surface and flight level centers only when same: 0 - Surface; 1 - 1500ft; 9-925mb; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; NA - Other.		
O	/ /	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY		
P	REMARKS MAX FL WIND_____KT_____QUAD_____Z MAX OUTBOUND FL WIND_____KT_____QUAD_____Z SLP EXTRAP FROM (Below 1500 FT/ 925 MB/ 850 MB/ DROPSONDE) SFC CNTR_____/_____NM FROM FL CNTR MAX FL TEMP _____C_____/_____NM FROM FL CNTR SURFACE WIND OBSERVED VISUALLY			
INSTRUCTIONS: Items A through G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available.				

Figure 5-4. Vortex Data Message Worksheet

Mission/Storm Info: Ferry TOTBPP

NON HD

t/o wx: metar/taf: VRB UNL SCT150 A2996

Climb Turb/ice:

Flight: Cloud tops: ~~NO SS~~ BUT SHRA POSS

Few 35-40

Precip Tops: 30,000 FT

Movement: W 10-15kt

FL wind: SE 20kts VRB E10kt

turb: NO PIREPS

landing wx: descent turb/ice: 13005KT UNL

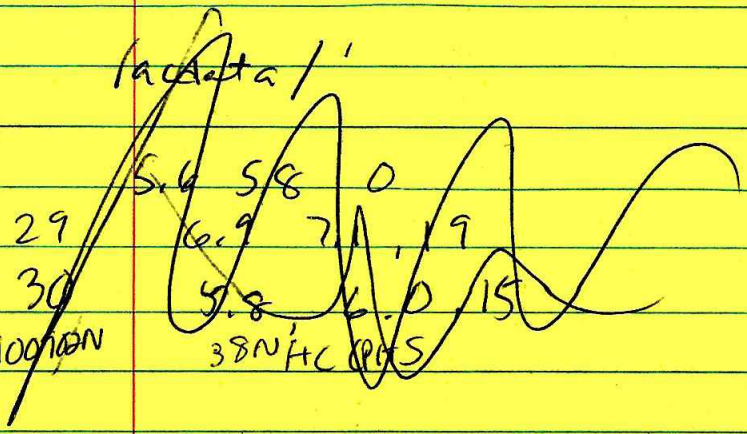
taf: LGA winds SCT018

local conditions:

Sea Salt/Volcanic Ash:

100827H

altiz - radar noisy + spikes
altil is more nasy than altnvl but doesn't jump or spike
altnvl spikes 165320Z - 165446Z, 172707Z, 172625 - 172705
- weird jumps



latnvl small spikes
psf is good

td2 goes out 130627Z - 135333Z, 181610Z - 182208Z

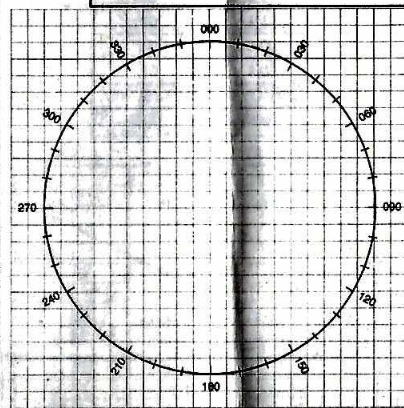
td1 jump 141551 - 141629 - replace w/ td2
151714 - 151815Z, 174536Z - 174612Z

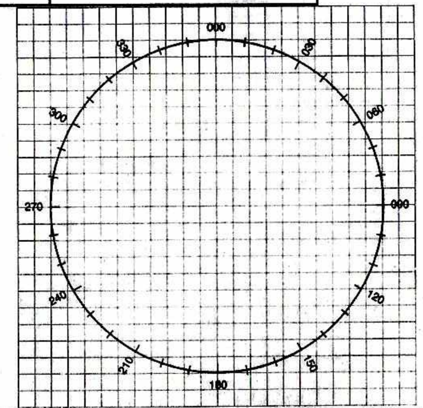
"B": 1155Z 070/6 V10 CLR 25/25 29.98 -48 ILS 4

CLEARANCES			
FREQ	ALT	HDG	OTHER
119.9	1,6K	R080	CAF FL190 +10 SQ 6021
132.35	120	180	DRUTO => SI CROW
135.7			
			OTK ASSS DDP

MISSION LOG

PAGE 1 OF 1





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 42

- 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 18 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
1238 1242	ENG TAXI	N W	N W		N W																
1242 1252	BLK T/O																				
1255	X✓	27-52.7 82-19.7	27-52.7 82-19.7	0 0	27-52.7 82-19.7	0 0															MCF 085/10 ✓
1355	Δ	25-18.6 78-12.8	25-18.6 78-12.5	0 0	25-17.9 78-12.6	[illegible]	135	7W	128	1L	127	308	210	10	170	308	DDP	760	2135	1630	MYR 1396 1325Z
1455	Δ	22-49.4 73-36.3	22-49.7 73-36.5	-1.3 -.2	22-48.1 73-36.3	+1.3 0	138	9W	129	1R	130	384	100	12	170	316	DDP	470	1435	1630	MYR 13348 SECAR
1555	Δ	20-02.6 68-52.4	[illegible] 68-52.1	+.6 +.3	20-00.2 68-52.3	[illegible]	148	12W	136	1R	137	320	230	5	170	320	KUNI	390	1112	1707	
1655	Δ	17-29.5 64-48.6	17-31.4 64-48.5	-1.9 +.1	17-27.1 64-49.4	+2.4 -.8	152	13W	139	0	139	284	289	6	190	279	KUNI	117	+25	1720	
1755	Δ	14-27.3 61-13.0	14-27.0 61-12.7	+.3 +.3	14-22.3 61-14.4	+5.0 -1.4	158	15W	143	1R	144	270	105	7	190	277	BGI	138	030	1825	
1825	LAND																				
1833	BLK																				

PMS 1718Z "B": ILS 09 150/6 V10Km FEW 1,600 31/25 QNH 1013 29.91