

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

FLT ID: 100829H	From: TBPB	To: TBPB
Flt No: 10 - 58	In: 1510 Z	On: 1506 Z
ETD: 0800 Z	Out: 0802 Z	Off: 0811 Z
ETE: +	Blk Time: 7 +08 (7.1) Hrs	Flt Time: 6 +55 (6.9) Hrs
Sponsoring Org: HRD	Program: RAPID INTENSIFICATION	Purpose: TS EARL

AOC Flight Crew

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

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Uhlhorn, Eric	SCI	HRD
Gamache, John	Radar	HRD
Lorsolo, Sylvie	SCI	HRD

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

Storm Name: TEAL 7A	Recco Times: 282/1444	Fix # 09232	Fix Time 16°56'
Mission ID: NOAA2 WX07A EARL2	NO XCHAT	6 10422	17°00' 57.5'
Center drop 1st + last	Cleaning crew in tower	5 11554	17°03' 52°41'
locked the door. looking for someone	using DVI to unlock door.	6 13192	17°02' 57°58'
RTNU 150 GPS	(See reverse for additional remarks)	5 987	57°58' soude 984 EXTR

U.S. DEP'T OF COMMERCE / NMAO / NOAA / AIRCRAFT OPERATIONS CENTER				
FLT ID: 100829H		TIME OFF: 0811 Z		TIME ON: 1506 Z
	A/C - Takeoff	WX Station - Takeoff	A/C - Land	WX Station - Land
Pressure	1003.3	1009.0 1002.3	1005.2	1011.0 1004.3
ATIS - Takeoff	26/24			31/24
ATIS - Land	NA			
Data Source	Number	Data Disposition / Date / Quality		
Flight Level Tapes	2			
Radar Tapes	1			
Cloud Physics Tapes / Cds				
Video Tapes/DVDs				
Dropsondes	19	Good: 17 Bad: 2 ; 16 Tempdup messages sent		
AXBT				
AXCP				
AXCTD				
SONOBUOY				
REMARKS:				
ele 52m for 090 ele 49m for 270				

ele 52m for 090
ele 49m for 270



NOAA P-3 N42RF
ERROR SUMMARY
HRD RAPID INTENSIFICATION
TS EARL

Flight ID: 1000829H

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM1X
Static Pressure	PSF
Dynamic Pressure	PQF1
Vert. Wind	ALTI1
Constants File	n42_hur10v2.adc
Project Directory	/acdata/2010/hur10

Notes:

There was one data gap: 081901Z - 081915Z.

The Buck dewpoint probe (TDM1) exhibited numerous erroneous data during the mission for the following time periods: 092051Z - 092059Z, 092512Z - 092547Z, 092940Z - 093022Z, 095738Z - 095748Z, 100030Z - 100131Z, 100437Z - 100520Z, 100731Z - 100742Z, 101059Z - 101120Z, 103157Z - 103219Z, 104142Z - 104219Z, 104435Z - 104447Z, 104817Z - 104829Z, 111207Z - 111216Z, 111256Z - 111303Z, 111330Z - 111359Z, 111411Z - 111454Z, 111816Z - 111855Z, 111946Z - 111957Z, 112322Z - 112428Z, 112550Z - 112634Z, 112657Z - 112733Z, 113758Z - 113837Z, 114831Z - 114841Z, 115309Z - 115321Z, 121919Z - 121955Z, 122330Z - 122351Z, 122943Z - 123016Z, 123112Z - 123126Z, 123838Z - 123907Z,

124208Z – 124215Z, 131558Z – 131606Z, 131813Z – 131923Z,
142000Z – 142052Z, 144059Z – 144111Z, 145005Z – 145159Z,
145623Z – 145631Z and 145637Z - 145806Z. The erroneous data were removed
by direct substitution with values from the EdgeTech dewpoint probe (TDM2),

$$\text{TDM1} = \text{TDM2}$$

There were several occurrences during the flight where dewpoint temperature exceeded ambient temperature during heavy precipitation events. No data modifications were made to either dewpoint temperature or ambient temperature during these aforementioned events.

All other instruments worked optimally during the flight.

The variable names dpj_wgs, dpj_was and dpj_wz in the netCDF file represent vertical ground speeds, vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

There were nineteen (19) GPS dropsondes deployed with 17 being good and 2 failures. Sixteen (16) tempdrop messages were transmitted to NHC.

	Takeoff(0811Z)	Landing(1506Z)
Aircraft Static Pressure	1003.3mb	1005.2mb
Corrected Tower Pressure	1002.3mb	1004.3mb

Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

INEI.
ACCI
TTI
TDMI
PSF
P&PI
ALTDI

100829 H

Date Gap
081901-081915

T/O - 0809 2
LND - 15082

122943-123016
123112-123126
123838-123907
124208-124215
131558-131606
~~131645~~
131813-131923
142000-142052
144059-144111
145005-145159
145623-145631
145637-145806

122940-123020
123100-123130
123800-123915
124200-124225
131525-131630
~~131810~~
131810-131925
141945-142110
144035-144120
144925-145210
145615-145820

TDMI fixes
0919-0921 092051-092059
0925-0926 092512-09254
0929-093040 092940-09302
0957-0958 095738-09574
1000-1001 100130-100131
100420-100530 100437-1005
1007-1008 100731-10074
101020-101130
103715-103750 103230
103157-103219
104130-104230
104142-104219
104420-104450
104435-104447
104810-104840
104817-104829
~~111515~~
111500
111200

101059-101120

111207-111216
111256-111303
111330-111359
111411-111454

111800-111900 111816-111855
111935-1120 111946-111955
112320-112450 112322-112428

112550-112634
112657-112733
113758-113837
114831-114841
115309-115321
112550-112750
113730-113850
114820-114845
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DATE		SCHEDULED RX TIME		AIRCRAFT NUMBER		FLIGHT DIRECTOR	
WX MISSION IDENTIFIER						OB NUMBER	
VORTEX DATA MESSAGE							
A	29 10923 Z			DATE and TIME of FIX 20			
B	16 DEG 56 MIN N S			LATITUDE of FIX			
	56 DEG 56 MIN W E			LONGITUDE of FIX			
C	MB NA M			MINIMUM HEIGHT of STANDARD LEVEL			
D	40 KT			ESTIMATE of MAXIMUM SURFACE WIND OBSERVED			
E	170 DEG 28 NM			BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND			
F	240 DEG 32 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	170 DEG 28 NM			BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	983 MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.			
I	C / M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	C / M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	C / C			DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, 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 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	134/NA			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; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other			
O	1 / 1 NM			NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY			
P	REMARKS 64 MAX FL WIND 56 KT N QUAD 0936 Z 17 44 55 5655 160 NM N end 987 16526 986 sonde 167/11.8 H						

INSTRUCTIONS: Items A thru 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 for scheduled fixes and at the Flight Director's discretion for unscheduled (intermediate) fixes.

105 (53)

DATE		SCHEDULED RX TIME		AIRCRAFT NUMBER		FLIGHT DIRECTOR	
WX MISSION IDENTIFIER							OB NUMBER
VORTEX DATA MESSAGE							
A	29 / 1042 Z			DATE and TIME of FIX			
B	12 DEG 00 MIN N			LATITUDE of FIX			
B	57 DEG 15 MIN W			LONGITUDE of FIX			
C	MBA M			MINIMUM HEIGHT of STANDARD LEVEL			
D	KT			ESTIMATE of MAXIMUM SURFACE WIND OBSERVED			
E	DEG		NM	BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND			
F	DEG		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	DEG		NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.			
I	C /		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	C /		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	C /		C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, 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 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	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; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other						
O	/		NM	NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY			
P	REMARKS MAX FL WIND _____ KT _____ QUAD _____ Z						

INSTRUCTIONS: Items A thru 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 for scheduled fixes and at the Flight Director's discretion for unscheduled (intermediate) fixes.

DATE		SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
WX MISSION IDENTIFIER				OB NUMBER
VORTEX DATA MESSAGE				
A	29 / 1155 Z		DATE and TIME of FIX	
B	17 DEG 03 MIN (N) S		LATITUDE of FIX	
	57 DEG 41 MIN (W) E		LONGITUDE of FIX	
C	MB	M	MINIMUM HEIGHT of STANDARD LEVEL	
D	59	KT	ESTIMATE of MAXIMUM SURFACE WIND OBSERVED	
E	48 DEG 38	NM	BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND	
F	125 DEG 71	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	48 DEG 80	NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	E987	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.	
I	7 C / 3666	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE	
J	10 C / 3655	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE	
K	C /	C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE	
L	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, 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 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	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; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other			
O	/	NM	NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY	
P	REMARKS MAX FL WIND _____ KT _____ QUAD _____ Z			

INSTRUCTIONS: Items A thru 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 for scheduled fixes and at the Flight Director's discretion for unscheduled (intermediate) fixes.

DATE		SCHEDULED RX TIME		AIRCRAFT NUMBER		FLIGHT DIRECTOR	
WX MISSION IDENTIFIER							OB NUMBER
VORTEX DATA MESSAGE							
A	29/1319 Z			DATE and TIME of FIX			
B	17 DEG 02 MIN (N) S			LATITUDE of FIX			
	57 DEG 58 MIN (W) E			LONGITUDE of FIX			
C	MB NA M			MINIMUM HEIGHT of STANDARD LEVEL			
D	64 KT			ESTIMATE of MAXIMUM SURFACE WIND OBSERVED			
E	127 DEG 51 NM			BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND			
F	144 DEG 50 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	139 DEG 57 NM			BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	887 984 E MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.			
I	8 C / 3681M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	12 C / 3668M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	47 C / NA C			DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, 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 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	181 10			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; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other			
O	/ NM			NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY			
P	REMARKS MAX FL WIND _____ KT _____ QUAD _____ Z sudden squall wind 181/10kts						

2 fail

INSTRUCTIONS: Items A thru 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 for scheduled fixes and at the Flight Director's discretion for unscheduled (intermediate) fixes.

N42RF AVAPS DROP LOG

Project : Hurricane '08

Mission : T/S EARL

Flight ID : 160829h

Take Off :

Landing : _____

Flt Dir : WILLIAMS / Dima Launcher S/N: _____

[illegible]

17

W: 0228Z JUL 59 2011011

FLYS 320/5

10km PW 2K 26/24 29.56

5526 MISSION LOG

PAGE 1 OF 6577

FREQ

ALT

HDG

OTHER

129.35

120

LT

08 AUG 59 1027

123.7

119.7

172

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

5364 KHZ

500 KHZ

MAYDAY, MAYDAY, MAYDAY

THIS IS NOAA

NOAA

NOAA

42

- POSITION

- HEADING

- AT

- KTS TRUE/INDICATED

- WE ARE A P-3 AIRCRAFT WITH

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE

ENDURANCE REMAINING

POSITION REPORT

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

TIME

FIX TYPE

POSITION

INS 1 POSITION

KERR

INS 2 POSITION

KERR

VAR

TH

DR

TRK

GS

WD

WS

TAS

NEXT PT

DIST

TIME

ETA

REMARKS

0740

EP-6

N

N

0801

EP-6

N

N

0815

X✓

13-14.8
59-11.8

13-14.8
59-11.8

0

0

076

060

6R

066

236

335

10

8K

232

IP

177

+45

0900

OPS NORM PIRACCO

0828

Δ

16-17.1
58-36.8

16-17.1
58-36.8

-1.1

-1.1

251

235

3L

232

296

030

35

120

263

3

8

+2

1017

OPS NORM PIRACCO

1015

Δ

17-11.1
58-26.0

17-10.8
58-25.8

+2.3

+2.2

254

16W

16W

239

239

321

150

60

120

263

5

22

+5

1220

OPS NORM PIRACCO

1115

Δ

16-17.1
58-36.8

16-17.1
58-36.8

-2.4

-2.2

254

16W

16W

239

239

321

150

60

120

263

5

22

+5

1220

OPS NORM PIRACCO

1215

Δ

16-17.1
58-36.8

16-17.1
58-36.8

-2.4

-2.2

254

16W

16W

239

239

321

150

60

120

263

5

22

+5

1220

OPS NORM PIRACCO

1315

Δ

16-17.1
58-36.8

16-17.1
58-36.8

-2.4

-2.2

254

16W

16W

239

239

321

150

60

120

263

5

22

+5

1220

OPS NORM PIRACCO

1415

Δ

16-17.1
58-36.8

16-17.1
58-36.8

-2.4

-2.2

254

16W

16W

239

239

321

150

60

120

263

5

22

+5

1220

OPS NORM PIRACCO

1505

LAND

1510

BUR

1115Z

10096

13297

0913

116-56

AS-95

95-56

E: 14222

V10101

250/22

V10101

2K

14

SC 1800

OV 28000

29.86

1011

30/24

