U.S. Dept. of Commerce / NOAA / Aircraft Operations Center — AOC WP

Flt ID: 100903 H	From: KMCF	To: KMCF
Flt No: 10 – 062	Blk In: 18 46	ATA: 18 36
ETD:	Blk Out: 1031	ATD: 1042
ETE:	Blk Time: ~~1031~~ 8.3	Flt Time: 7.9
Sponsor Org: EMC	Program: HURR IMPROV	Purpose: EARL

AOC Personnel

AC: NEWMAN	Sys Eng: RICHARDS
CP: SWEENEY, MARLIN, SIMS	Data Sys: BOSKO
Nav: BRAUB	Radar: WARNAKE
FE: KLIPPEL, DARBY	GPS/BT: LUNCH
FD: SEARS, DAMIANO	Cld Phys:
Avionics: OLNEY	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
GAMACHE		
DELTHORN		
PERSON		

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

WX07A EARL 12

36 21
73 29
955 mb
1308Z

36 40
73 08
962 sonde 20kt
1427Z E 957

36 56
72 56
E 957
1541Z

U.S. Dept of Commerce / NOAA / Aircraft Operations Center — AOCWP2

Flt ID: | Time Off: | Time On:

	A/C (Take Off)	WX Station (Take Off)	A/C (Land)	WX Station (Land)
Pressure				

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes		14 Sondes #13 good
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
		15 BT 12 good
AXBT		
AXCP		
AXCTD		
Dropsondes		

Video

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

Remarks

NOAA • AOC • SED

N42RF AXBT DROP LOG

Project : Hurricane [redacted] 10 Mission : HURRICANE EARL Flight ID : 100903h

Operators : OLDEN / RICHARDS / WERNECKE

Take Off : _____ Landing : _____

Drop #	Drop Time	Channel	Tube	Lot	Comments	Good
1	1244	12	1A		ComBo 27°C	✓
2	1254		1B			NO
3	1309		1C		CENTER	✓
4	1322		1D			
5	1336		2A		Combo	
6	1402		2B		Combo	
7	1415		2C			
8	1428		2D		Combo	
9	1440		3A		ComBo	
10	1453		3B		ComBo	
11	1516		3C		Combo	
12	1529		3D			
13	1541		3E			
14	1553		4A		Combo	
15	1603	↓	4B			

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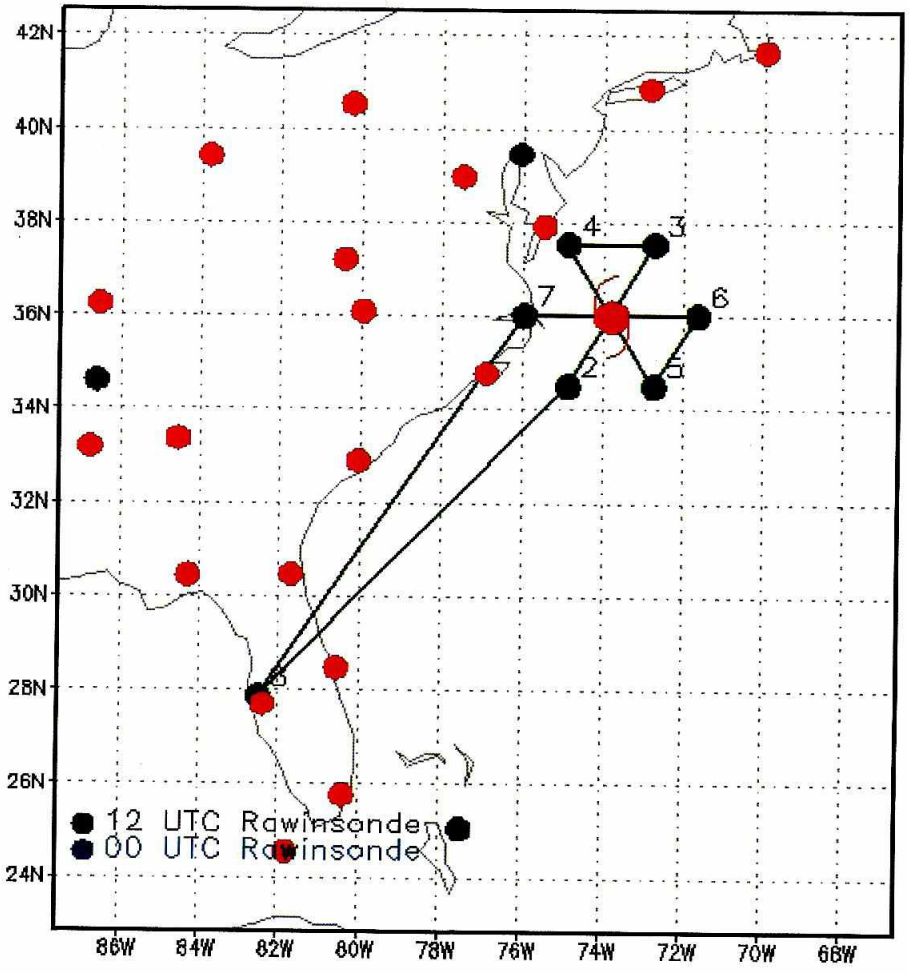
N42RF AVAPS DROP LOG

Project : Hurricane ~~88~~ 2010 Mission : HURRICANE EARL Flight ID : 100903h

Take Off : _____ Landing : _____ Flt Dir : _____ Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge $$ To	Comments	Good ??
1	094645085	1	-.7	1244	02	WRO	HRD	ComBO	✓
2	095035231	2	0	1303	03	↓	↓		✓
3	094645091	3	0	1313	02	↓	↓		✓
03.3 4	094645039	4	+.2	1335	—	JGW	↓	~~operator~~ error ~~ComBO~~	X
03.3 5	094 735 048	1	0	1337	02		↓	ERROR	✓
6	100 145 107	2	-.5	1402	03		↓		✓
7	100 145 039	3	-.1	1424	03		↓	Combo	✓
8	100 145 201	4	0	1427	04		↓		✓
9	095 335 026	1	2	1440	02		↓	Combo	
10	095 035 145	2	0	1453	02		↓		
11	100 145 056	3	-.9	1516	02		↓	Combo	✓
12	095 335 022	4	0	1529	02		↓		✓
13	095 335 043	1	-.3	1553	03		↓		✓
14	095 335 027	2	-.2	1603	03		↓		
15							↓		



GrADS: COLA/IGES

2010-09-

1ST BDL PASS

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR

WX MISSION IDENTIFIER	OB NUMBER

VORTEX DATA MESSAGE

A	03 / 1308 Z	DATE and TIME of FIX
B	36 DEG 21 MIN N S	LATITUDE of FIX
	73 DEG 29 MIN W E	LONGITUDE of FIX
C	MB NA M	MINIMUM HEIGHT of STANDARD LEVEL
D	63 KT	ESTIMATE of MAXIMUM SURFACE WIND OBSERVED
E	217 DEG 57 NM	BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND
F	292 DEG 65 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	217 DEG 64 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	E 955 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	11 C / 3670 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	15 C / 3664 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	11 C / [illegible]275	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	~~[illegible]~~ 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	1[illegible]345 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 MAX FL WIND 63 KT SW QUAD 1300 Z MAX OUTBOUND FL WIND 12 ~~KT~~ NE QUAD 1331Z MAX FL TEMP XXX deg @ 11 ~~DATE~~ NM	

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.

2ND PASS

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR

WX MISSION IDENTIFIER	OB NUMBER

VORTEX DATA MESSAGE

A	03 / 1427 Z	DATE and TIME of FIX
B	36 DEG 40 MIN N S	LATITUDE of FIX
	73 DEG 08 MIN W E	LONGITUDE of FIX
C	MB NA M	MINIMUM HEIGHT of STANDARD LEVEL
D	54 KT	ESTIMATE of MAXIMUM SURFACE WIND OBSERVED
E	311 DEG 52 NM	BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND
F	65 DEG ~~55~~ 66 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	316 DEG 72 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	~~[illegible]~~ 962 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	-7 C / 3658 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	14 C / 3673 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	12 C / 25.6 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	1345 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 MAX FL WIND 66 KT NE QUAD 1358 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.

757-433-1230

"F": 0753Z CALM VIØ CLR 22/20 29.96 -30 ILS04

"H": ILS04 29.97 0955Z CALM VIO CLR 23/22 -39

MISSION LOG

PAGE 1 OF 1

CLEARANCES

	FREQ	ALT	HDG	OTHER
	119.9	1.6	080	SQ 3646 CAF
	267.5	120 +10		
SEALORD	133.95	9K		OMN JETSO V ORF STARY
	120.95			
	135.05			
Giant Killer	135.87	133.5	NYC	SQ 2466
	251.16			
	233.7			TAYLOR LIZARD 4
	135.37			
	133.7			

362 000/16
73.5
TEAL 76

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 17 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	
0840 0845	ENG TAXI	N W	N W		N W																HFI + HFL + SELCAL NYR 5550/3455	0700
0845 0850	BLK BLK																					
	ENG																				APU DOOR MALFUNCTION	
1023 1031	ENG TAXI																					
1031 1042	BLK T/O																					
1045	X✓	27-55.3 82-20.4	27-55.3 82-20.4	0 0	27-55.3 82-20.4	0 0	067	5W	062	1L	061	253	238	22	9K	232	OMN	120	+22	1107	[illegible] ✓	
1158	Δ	32-17.7 77-56.4	32-17.9 77-56.2	+.2 +.2	32-15.9 77-55.7	+1.8 +.7	057	9W	048	4R	052	306	265	25	120	289	1	227	+45	1243		
1301	Δ	35-59.2 73-46.1	35-59.4 73-46.0	+.2 [illegible]	35-56.6 73-45.2	+2.6 [illegible]	043	12W	031	9R	040	261	308	39	120	259	2	23	+05	1306	[illegible]	
1402	Δ	38-01.9 74-34.5	38-02.8 74-34.7	-.9 -.2	37-59.7 74-34.3	+2.2 +.2	151	12W	139	11R	150	254	055	45	120	253	2	100	+24	1426		
1500	Δ	35-41.7 71-33.1	35-42.6 71-31.9	-.9 +1.2	35-39.6 71-33.7	+2.1 -.6	045	13W	032	0	032	371	210	90	120	282	5	75	+12	1512	NYR 6577 [illegible]	1500
1600	Δ	36-56.8 74-33.7	36-56.7 74-33.9	+.1 -.2	36-53.9 74-34.3	+2.9 -.6	297	12W	285	14L	271	245	350	55	120	260	6	20	+05	1605	✓ OFFSHA NYR 6577	1550
1705	Δ	33-47.2 79-10.4	33-47.3 79-10.0	[illegible]	33-44.3 79-11.4	+2.9 -1.0	233	8W	225	5L	220	297	285	30	120	308	CHS	60	+13	1718		
1800	Δ	30-15.7 81-59.9	30-16.7 81-57.9	-1.0 +1.0	30-14.5 82-00.1	+1.2 -1.2	220	5W	215	3L	212	316	255	17	210	326	JAYDA	35	+07	1809		
1836	LAND																					
1846	BLK																					

MICAO 1201 PTI 1300 1330 NYC

MISSION LOG | PAGE ___ OF ___

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

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
1222	2	36-12 73-30																			
1308	2	36-21 73-29	005/12																		
1427	2	36-40 73-09	040/19																		
1541	2	36-56 72-56	033/15																		