

8511
230
3/10

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

AOCWF1

Flt ID: 080909H	From: KMLF	To: KMLF
Flt No: 08-61	Blk In: 0435Z	ATA: 0428Z
ETD: 2000Z	Blk Out: 1957Z	ATD: 2010Z
ETE:	Blk Time: 8:38 (8.6)	Flt Time: 8:18 (8.3)
Sponsor Org: NESDIS	Program: OCEAN WINDS HURRICANE	Purpose: H. IKE OVER W. CUBA

AOC Personnel

AC: NELSON	Sys Eng:
CP: GIRIMONTE / NEWMAN	Data Sys: ROLES
Nav: GALLAGHER	Radar:
FE: BAST / W	GPS/BT: BOSKO / GREENE
FD: DAMIANO	Cld Phys:
Avionics: OLNEY	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P	PI	NESDIS
JELENAK, Z	ASST PI	NESDIS
CHU, T	C-SEAT	UMASS
STOFFELEN, A	OBS	
MARKS, F	RADAR	HRD
BLACK, B	RADAR	↓
GOPALAKRISHNAN, S	OBS	
SEPOS, J	MEDIA	CBS RADIO

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

0239Z SAT OVERPASS

22°57' 2158Z
83°45' 968EXT

23°03' 21Z 1930Z
83°55' 00Z

2326Z 968EXT

23°05' 84°03' 0021Z 967mb extp

2304 968 8406 EXT 0049Z

00Z 23.2N 84.2W 15Z
NOAA2 1609A IKE 22.6N 83.0W

23°06' 84°08' 0115Z 967EXT

2306 84°11' 0144Z

2245' 8320'

OVER →

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AOCWE2

Fit ID: 080909H Time Off: 2000Z Time On: 0428Z

	A/C (Take-Off)	Wx Station (Take-Off)	A/C (Land)	Wx Station (Land)
Pressure	1009.9	29.84 1010.2	1012.0	29.92 1013.0 1012.5

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT	All Chs 12	7 6 good; 1 bad
AXCP		
AXCTD		
Dropsondes	20 prot 3	12 NESDIS; 4 HRD; 1 NHC; 3 AOC

Video

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

Remarks

1877
33
24
29.86
1955Z
33
24
29.84

677 ext 967
968 896
2305Z 840191
230111 11032 6
2417 8417
2310 967 EXT 6



N42RF ERROR SUMMARY H. IKE OVER WESTERN CUBA



Flight ID: 080909H

<u>Sensor or system</u>	<u>Number or Name</u>
Inertial	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2X (EdgeTech)
Static Pressure	PSFX
Dynamic Pressure	PQF1
Vert. Wind	GPS(Blended)
Constants File	n42_hur08v3.adc
Project Directory	/acdata/2008/hur08

Notes:

There were no data gaps. Beginning with the H080829 H. Gustav flight and continuing through the H080912 H. Ike flight, there was observed a 3 to 4 second lag between all INE1 and INE2 outputs. INE1 was selected since it best corresponded with the analog output.

There were no liquid water sensors available for the flight.

The APN-159 (RA159X) was inop for the entire flight. The blended GPS altitude from INE1 (ALTI1) was used.

Measured dewpoint temperature #2 (EdgeTech)...TDM2...exhibited a couple of time periods of erroneous data during the flight. For 014446Z – 014522Z the erroneous data was removed by substituting TDM3(Maycomm/TDL) output,

$$\text{TDM2} = \text{TDM3}$$

For 203914Z – 203926Z the erroneous TDM2 data was removed and replaced using statistical techniques.

For 000472Z – 000536Z the erroneous TDM2 data was removed by substituting

TDM1(Buck) output,

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

All other instruments worked optimally during the flight.

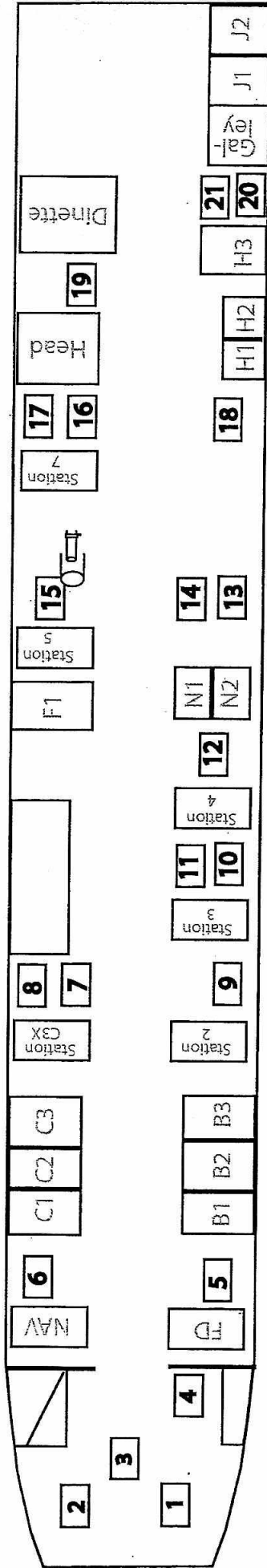
Twenty (20) GPS dropsondes were deployed with all being good. Twenty (20) tempdrop messages were sent to NHC. Also three (3) prototype dropsondes were deployed. Seven (7) AXBTs were deployed with six (6) being good.

	Takeoff 2010Z	Landing 0428Z
Aircraft Static Pressure	1009.9mb	1012.0mb
Corrected Tower Pressure	1010.2mb	1012.5mb

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

NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 080907H



1. NEWMAN
PILOT

2. ARLSON
COPILOT

3. ~~BAST~~
FLIGHT ENGINEER

4. CHANG
STATION 1

5. DAMDANO
FLIGHT DIRECTOR

6. GALLAGHER
NAVIGATOR

7. KLIPEL
STATION C3X

8. GIRIMONTE
STATION C3X

9. STOFFELSEN
STATION 2

10.
STATION 3

11. GREENE
STATION 3

12. ROLES
STATION 4

13.
PROJECT SEAT

14. BOSKO
PROJECT SEAT

15. OLNEY
STATION 5

16. JELENAK
STATION 7

17. CHU
STATION 7

18. DARBY
STATION 8

19.
DINETTE

20.
GALLEY

21.
GALLEY

DATE		SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
WX MISSION IDENTIFIER				OB NUMBER 22
VORTEX DATA MESSAGE				
A	10 / 0305 Z		DATE and TIME of FIX	
B	23 DEG 11 MIN N S		LATITUDE of FIX	
	84 DEG 19 MIN W E		LONGITUDE of FIX	
C	700 MB 2824 M		MINIMUM HEIGHT of STANDARD LEVEL	
D	70 KT		ESTIMATE of MAXIMUM SURFACE WIND OBSERVED	
E	293 DEG 07 NM		BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND	
F	022 DEG 67 KT		MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	295 DEG 09 NM		BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	968 MB		MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.	
I	16 C / 2512 M		MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE	
J	17 C / 2630 M		MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE	
K	17 C / NA C		DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE	
L	CLOSED WALL		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.	
M	C10		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	12345 / 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 67 KT NW QUAD 0303 Z RADAR EYE APPEARS XAGGED MAX OUTBOUND FL WIND 66 KTS NW QUAD 0308 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.

Mission: Hurricane Ike Flight ID: 080909

Launcher S/N:

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22 53 N
83 42 W

L5H2	2032	7-4 ^o	H32A	0329	1322
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[illegible]

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION
0151	A	27-45-4	27-45-4	1	27-45-4
0152	A	27-45-4	27-45-4	1	27-45-4
0153	A	27-45-4	27-45-4	1	27-45-4
0154	A	27-45-4	27-45-4	1	27-45-4
0155	A	27-45-4	27-45-4	1	27-45-4
0156	A	27-45-4	27-45-4	1	27-45-4
0157	A	27-45-4	27-45-4	1	27-45-4
0158	A	27-45-4	27-45-4	1	27-45-4
0159	A	27-45-4	27-45-4	1	27-45-4
0160	A	27-45-4	27-45-4	1	27-45-4
0161	A	27-45-4	27-45-4	1	27-45-4
0162	A	27-45-4	27-45-4	1	27-45-4
0163	A	27-45-4	27-45-4	1	27-45-4
0164	A	27-45-4	27-45-4	1	27-45-4
0165	A	27-45-4	27-45-4	1	27-45-4
0166	A	27-45-4	27-45-4	1	27-45-4
0167	A	27-45-4	27-45-4	1	27-45-4
0168	A	27-45-4	27-45-4	1	27-45-4
0169	A	27-45-4	27-45-4	1	27-45-4
0170	A	27-45-4	27-45-4	1	27-45-4
0171	A	27-45-4	27-45-4	1	27-45-4
0172	A	27-45-4	27-45-4	1	27-45-4
0173	A	27-45-4	27-45-4	1	27-45-4
0174	A	27-45-4	27-45-4	1	27-45-4
0175	A	27-45-4	27-45-4	1	27-45-4
0176	A	27-45-4	27-45-4	1	27-45-4
0177	A	27-45-4	27-45-4	1	27-45-4
0178	A	27-45-4	27-45-4	1	27-45-4
0179	A	27-45-4	27-45-4	1	27-45-4
0180	A	27-45-4	27-45-4	1	27-45-4
0181	A	27-45-4	27-45-4	1	27-45-4
0182	A	27-45-4	27-45-4	1	27-45-4
0183	A	27-45-4	27-45-4	1	27-45-4
0184	A	27-45-4	27-45-4	1	27-45-4
0185	A	27-45-4	27-45-4	1	27-45-4
0186	A	27-45-4	27-45-4	1	27-45-4
0187	A	27-45-4	27-45-4	1	27-45-4
0188	A	27-45-4	27-45-4	1	27-45-4
0189	A	27-45-4	27-45-4	1	27-45-4
0190	A	27-45-4	27-45-4	1	27-45-4
0191	A	27-45-4	27-45-4	1	27-45-4
0192	A	27-45-4	27-45-4	1	27-45-4
0193	A	27-45-4	27-45-4	1	27-45-4
0194	A	27-45-4	27-45-4	1	27-45-4
0195	A	27-45-4	27-45-4	1	27-45-4
0196	A	27-45-4	27-45-4	1	27-45-4
0197	A	27-45-4	27-45-4	1	27-45-4
0198	A	27-45-4	27-45-4	1	27-45-4
0199	A	27-45-4	27-45-4	1	27-45-4
0200					

POSITION	KERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD
15.4 26.2	---	241	SW	236	45	242	249	109
16.2	---	228	2W	166	10	136	235	048
17.3	---	197	3W	141	11	130	220	215
22.6 23.2	---	217	3W	212	101	224	212	133
5.0 6.5	+	629	3W	936	81	444	246	308
1.3 6.6	---	282	2W	282	14	272	258	619
15.4 26.2	---	140	2W	840	84	107	235	072

[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**

- POSITION _____ N/S _____

- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY

**- ASSISTANCE DESIRED
BY LOT INTENTIONS**

- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

3695

