

NOAA WP-3D N43RF

Hurricane Ike TDR Landfall

Flight ID: 080901I

Sensor or System	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	1 (General Eastern)
Altitude (for Vertical Wind)	APN-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	N43_hur08.adc

Notes:

Data Start Time: 080201Z. End Time: 153110Z.

Data/time gaps the following times:

142952Z-143003Z.

These gaps can result in erroneous vertical winds around the gap periods.

King Liquid Water inop.

Processed data file: 080901I_RC.nc

During the mission there were instances where the dewpoint temperature exceeded the derived ambient temperature. This occurred primarily during heavy precipitation.

Flight Director: Jack Parrish. (813) 828-3310, ex 3077

0734Z 09Z 12Z

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

Flt ID: 080901I	From: KMCF	To: KMCF
Flt. No: —	Blk In: 1531 Z	Time On: 1524
ETD: 08Z	Blk Out: 0803 Z	Time Off: 0813
ETE: 8+	Blk Time: 7:28 (7.5) Hrs	Flt Time: 7:11 (7.2) Hrs
Sponsoring Org: DHC	Program: TDA	Purpose: 1A. Gustav

AOC Flight Crew

Aircraft Commander: Nelson	Data System: Lynch
Co-Pilot: Deedman, Ebhardt	AVAPS: Smith
Navigator: Gallagher, Kipper	System Eng: Daelw
Flight Eng: Floyd, Klipfel	A A:
Flight Director: Parrish	A A:
Avionics: Sans Souci	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Uhlhorn, E.	P.T.	1HRD
Zhang, J.	Recco	↓
Leighton, P.	Radar	↓
Baldi, C.	SRA	SRA
Berman, Jonathan	Visitor	Optomen Productions
Chapple, Steve	Visitor	Reader's Digest
Smith, Charles	Visitor	↓

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

Storm Name: Gustav

Mission ID: 2707A

NOTES:

Recco Times	Fix #	Fix Time
Fix 0951Z 2829N 8951W		DVA
1115Z 2842N 9012W		
1211Z 2845N 9019W		
1330Z 2856N 9031W		

(See reverse for additional remarks)

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

Flight ID: 080901I

Time Off: 0813 Z

Time On: Z

A/C - Takeoff

Wx Station - Takeoff

A/C - Land

Wx Station - Land

Pressure

Number

Data Disposition / Date / Quality

Flight Level Tapes

Radar Tapes

Cloud Physics Tapes / CDs

Video Tapes

Dropsondes

Good: Bad:

AXBT

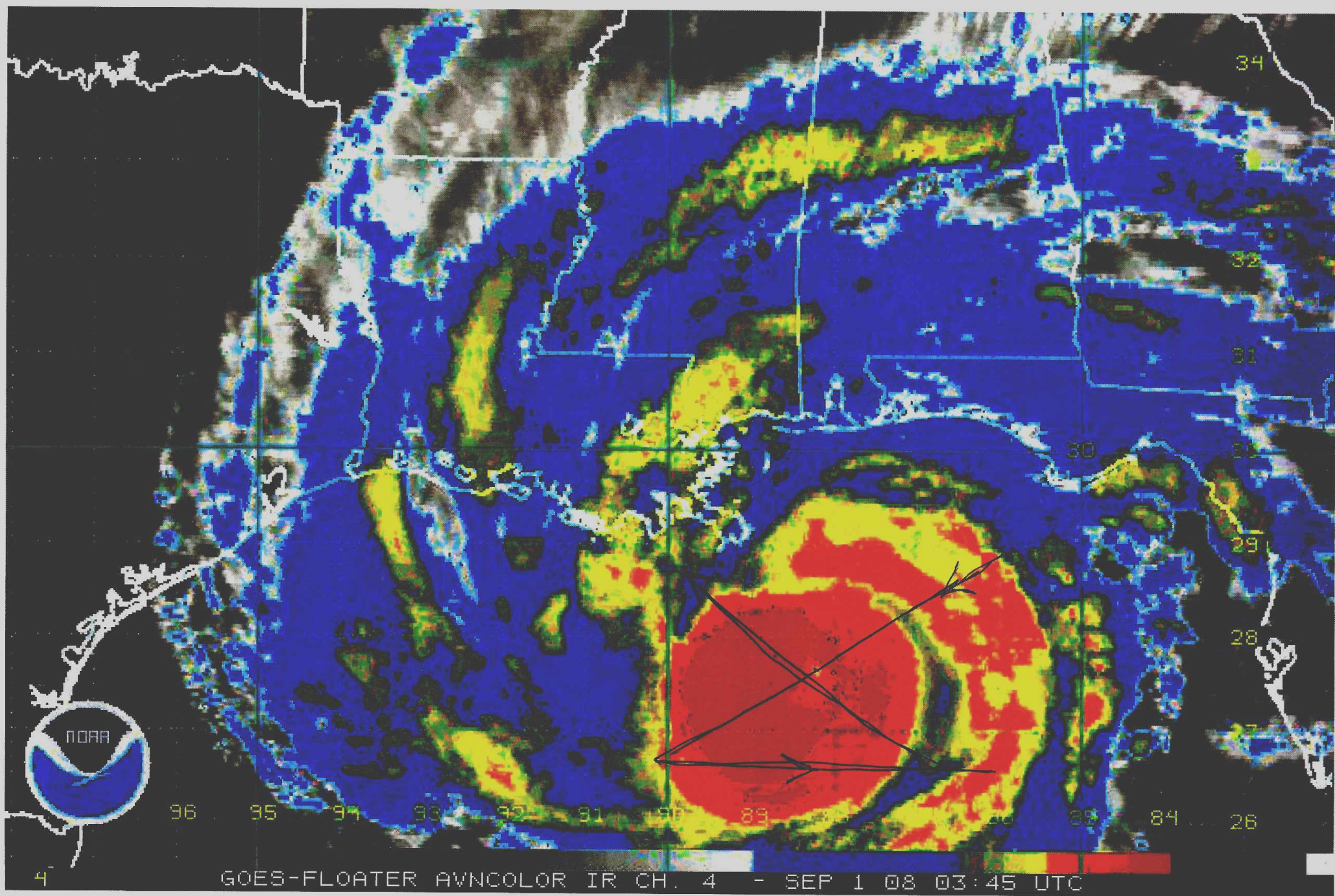
AXCP

AXCTD

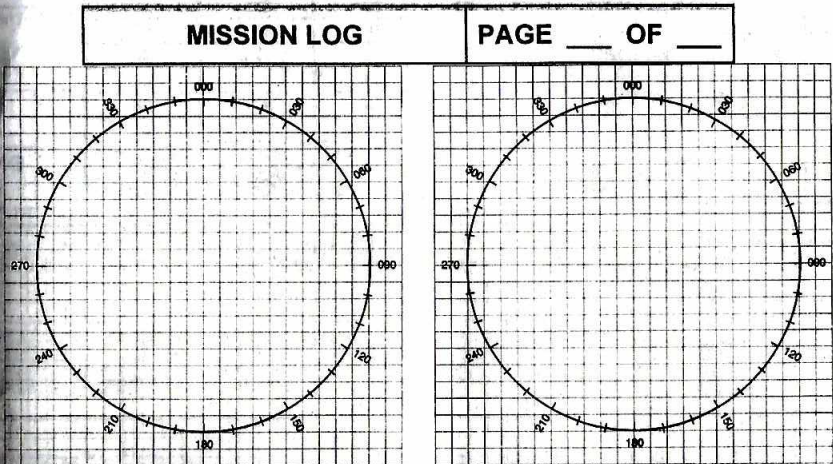
Remarks:

TAKE OFF WEATHER: X 0655 Z 090/12KT 26/25 29.84

LANDING WEATHER: 100/14



CLEARANCES			
FREQ	ALT	HDG	OTHER
304.8			In 6 W Rwy 04
			X 29.84
			1414
			0732 2809 89 17W
			6586 5520 124.71
			132.17
			127.65



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 243.0 VHF/VOICE 121.5 MF/VOICE 2182 KHZ HF/CW 8364 KHZ MF/CW 500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA 43, NOAA 43, NOAA 43

- 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 19 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
0800	CNG STRT																				
0802	TAXI																				
812	T/O																				
818	Δ	29 58 82 36	29 58 82 36	0	29 58 82 36	0	270	SW	282	1R	278	238	128	21	79	221	1417				
0834	SAC ✓																				
0859	C	16 AC 11 00151A	Next 02 151A																		
0915	Δ	29 26 87 27	29 26 87 28	0 -1	29 26 87 27	0 0	290	1W	289	7R	297	311	138	61	100	254	①				
0934	IP																				
0952	φ	28 29.1 089 51.3																			
		100 70 40																			
1015	Δ	27 12.6 091 09	27 12 09 10	+1 -1	27 12.6 091 10	0 -1	078	1E	079	5R	084	284	303	30	12K	201	[4]				
1059	C	16 AC 11 34 001A																			
1115	φ	28 41.6 090 11.5	305/21am 305/15																		
1126	Δ	29 20 090 55	29 20 090 56	0 -1	29 20 090 55	0 0	330	1E	330	14L	316	260	654	21	12K	201	[5]				
1211	φ	28 45 090 18.7																			
1215	Δ	28 45 89 48	28 45 89 48	0 0	28 45 89 48	0 0	109	0	109	18L	091	213	186	86	12	204	7				

50
75
160

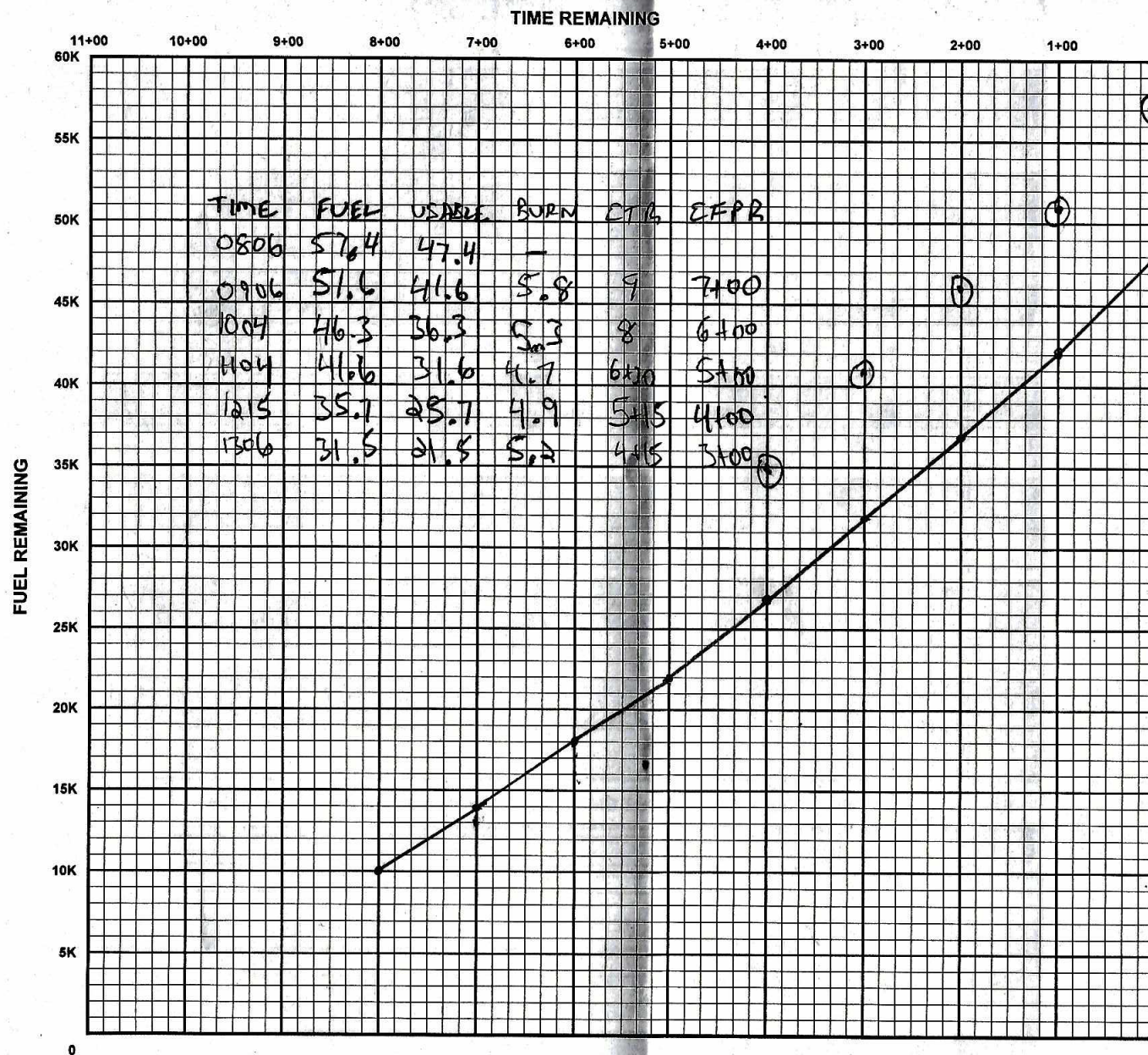
2700 mSA East 12nm MOSA 2200' SW of New Orleans 8+hrs Radio Set 4
300mm IP

818 1919

[illegible]

[illegible]

RANGE CONTROL GRAPH



DISTANCE REMAINING

ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.06	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

ENROUTE FUEL

ENROUTE TIME	8
ENROUTE FUEL (6K 5K 4 5K RULE)	38
RESERVE AT DESTINATION	10
REQUIRED RAMP	48
ACTUAL RAMP FUEL	57.4

TACTICAL (OFFSTA TO DESTINATION) 4 ENG 3 ENG

DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL		
REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN 4 ENG 3 ENG

ETP DISTANCE (TO DEPARTURE)		
ENROUTE TIME (TO DEPARTURE)		
BURN RATE (LBS/HR)	4500	5500
FUEL REQUIRED		
RESERVE AT DEPARTURE		
PSR FUEL		

PRESS ALT	200	250	300	350
10,000	1.0	1.0	.99	.99
20,000	.99	.98	.97	.97
30,000	.97	.96	.95	.94
40,000	.96	.94	.92	.90

CEX - TRUE BEARING METHOD

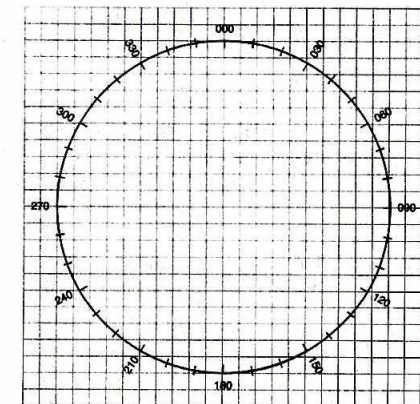
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

CEX SIGHT

GMT	
GHA	
CORR	
GHA	
LONG +W -E	
EXACT LHA	
LAT	
BODY	
DEC	
HO/D	
CORR	
HC	
Z	
ZN	

CEX - ERB METHOD

COMPASS TYPE	INS1	INS2	WET
MERB (DIAL 000)			
+ ZN			
- MTH			
MCH (READING)			
CE			
- VAR			
= DEV			



TRUE AIRSPEED CROSS-CHECK

TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS
0834	227	120	/	/	+7	275	278
			/	/			