

NOAA WP-3D N43RF

Hurricane Ike TDR

Flight ID: 080830I

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: 075621Z. End Time: 142100Z.

Data/time gaps the following times:

103831Z-3846Z, 113841Z-3846Z, 122759Z-122804Z.

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

King Liquid Water inop.

TD1 froze 095800Z-100000Z, 124630Z-125340Z, 140400Z-140616Z. patched with TD2.

Processed data file: 080830I_RXC.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

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

Flt ID: 080830 I	From: KMCF	To: KMCF
Flt. No: -	Blk In: 1420 Z	Time On: 1413
ETD: 08Z	Blk Out: 0758 Z	Time Off: 0807
ETE: +8.5	Blk Time: 6:22 (6.4) Hrs	Flt Time: 6:06 (6.1) Hrs
Sponsoring Org: WHL	Program: JDR	Purpose: N. Gustav

AOC Flight Crew

Aircraft Commander: Nelson	Data System: Naeher 2050 8149
Co-Pilot: Ebbardt, Newman	AVAPS: Smith
Navigator: Callagher	System Eng: Lynch
Flight Eng: Floyd, Klippel	A A:
Flight Director: Parrish	A A:
Avionics: Sims, Sorei	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Uhlhorn	PI	HRD
Leighton	Radar	↓
Rule	Obs	↓
Zhang	Radar	↓
Kennell	Obs	ABC Right line
Kofman	↓	↓
Hosford		

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

Storm Name: _____

Mission ID: _____

NOTES:

Recco Times

Fix #

Fix Time

1001Z 20°2'N 81°18'W 959

1115Z 20°35'N 81°31'W 955

1224Z 20°44'N 81°42'W 955

3 eye penetrations H.D.

(See reverse for additional remarks)

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Flight ID: 080830I

Time Off: 0807 Z

Time On: 1413 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

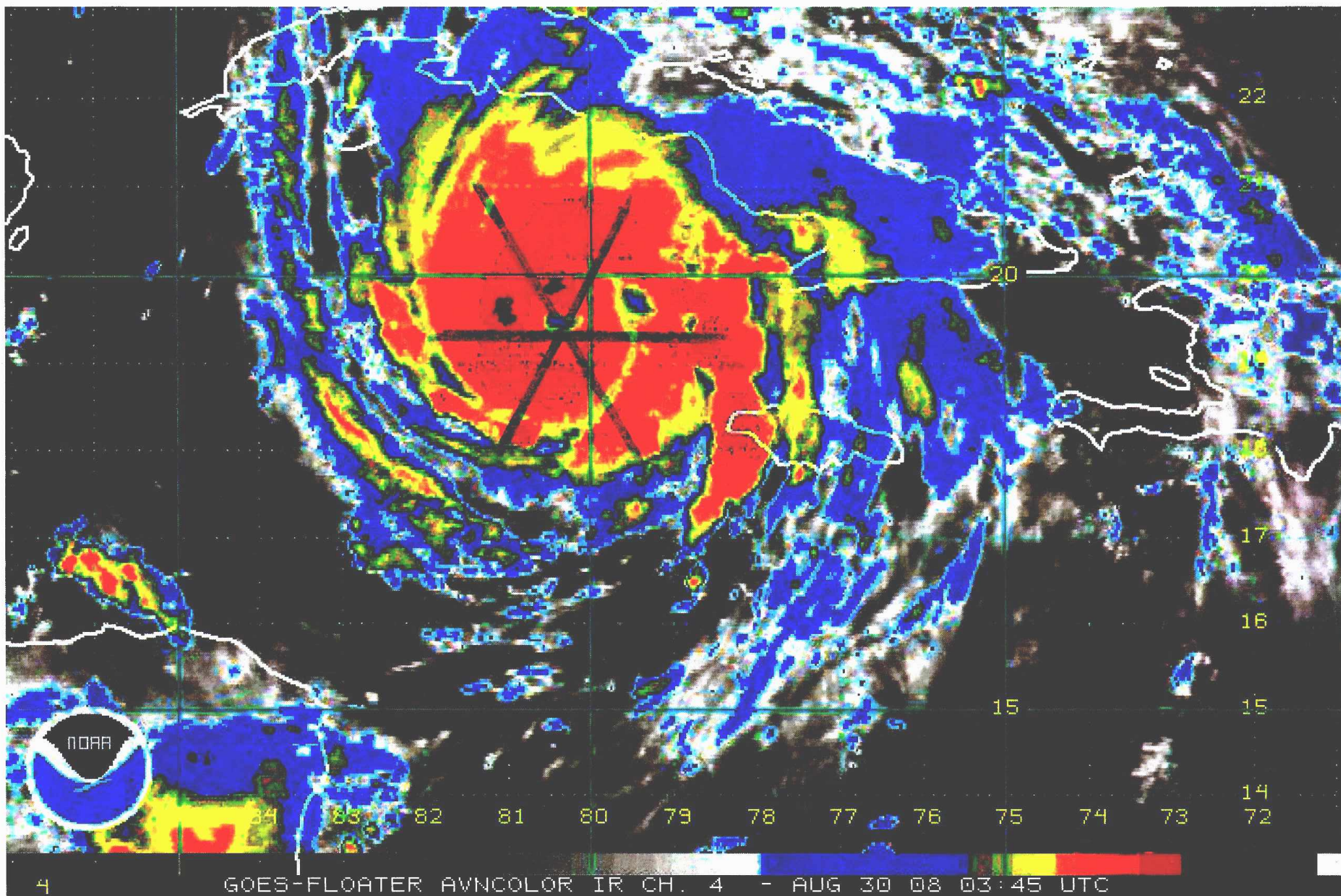
AXCTD

Remarks:

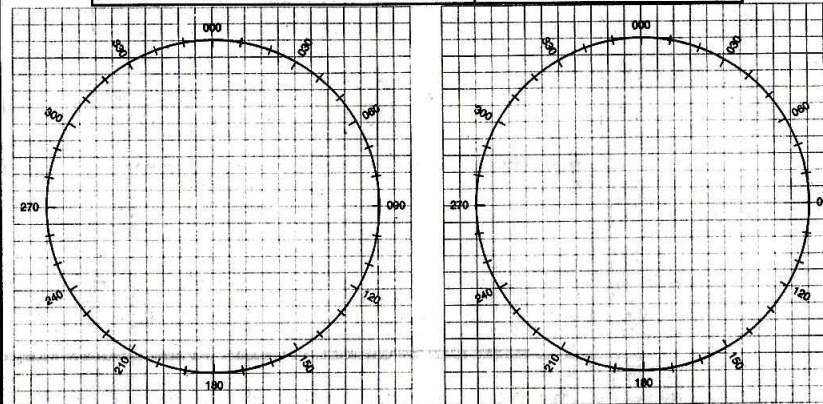
TAKE OFF WEATHER: 080/8

LANDING WEATHER: X 1255Z 050/15 28/26 29.89





MISSION LOG	PAGE ____ OF ____
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[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 _____, NOAA _____

- 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 _____ SOULS ON BOARD

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING

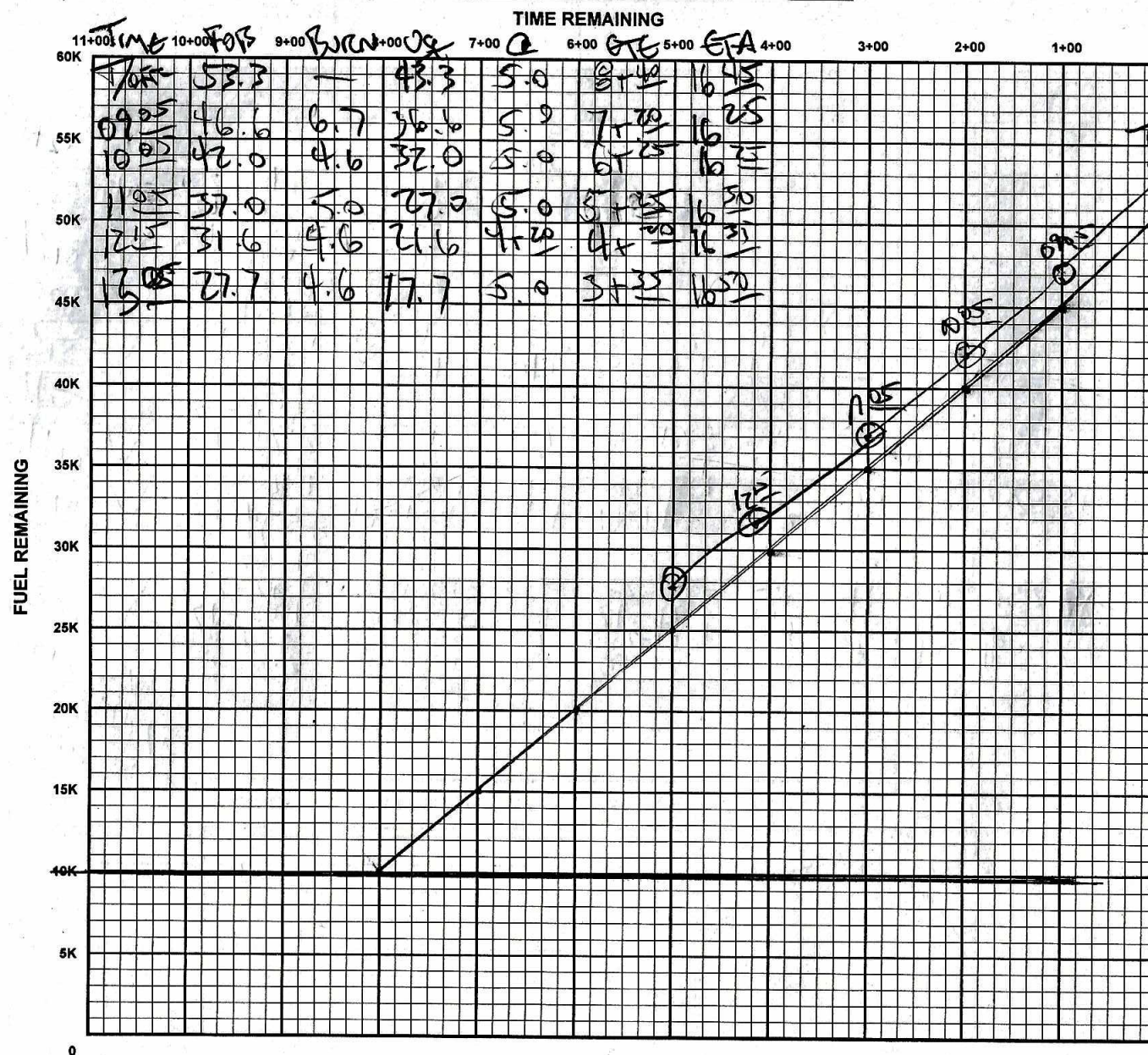
[illegible]
$$\begin{array}{r} 110 \\ - 27.5 \\ \hline 82.5 \end{array}$$

29 87 04

4361

[illegible]

RANGE CONTROL GRAPH



DISTANCE REMAINING

$$ETP = .5(TOTAL\ DISTANCE \times OUTBOUND\ WIND\ FACTOR)$$

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+00
ENROUTE FUEL (6K, 5K, 4.5K RULE)	41.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	51.0
ACTUAL RAMP FUEL	53.3

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

TRUE AIRSPEED CROSS-CHECK

TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS

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	
HC/D	
CORR	
HC	
Z	
ZN	

CEX - ERB METHOD

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

